

(正誤表)

平成 31 年度 高レベル放射性廃棄物等の地層処分にに関する技術開発事業 T R U 廃棄物処理・処分にに関する技術開発 Appendix 令和 2 年 3 月

| ページ         | 場所               | 種類       | 誤                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 正                                                                                                                       |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
|-------------|------------------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|----|----|----------|------|------------------|----|-----------------|-------------|------------------|-------|-------|-------|----|------|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|----|----------|------|------------------|----|-----------------|-------------|------------------|-------|-------|-------|----|------|----|
| I-85        | 28~29 行目         | 本文       | 平成 30 年度に実施した水素ガス発生量については、 <u>照射線量当たりの</u> 水素ガス発生量でデータを整理した。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 平成 30 年度に実施した水素ガス発生量については、 <u>吸収線量当たりの</u> 水素ガス発生量でデータを整理した。                                                            |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| I-100       | 5~6 行目<br>7 行目   | 本文<br>本文 | 照射位置は、 <u>線量率</u> が約 1kGy/h となる線源カバーからの距離が約 105cm、中央の試料が線源中心から横に約 20cm の位置とした。<br><u>照射線量</u> は 1kGy/h×5 時間=5kGy とした。                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 照射位置は、 <u>吸収線量率</u> が約 1kGy/h となる線源カバーからの距離が約 105cm、中央の試料が線源中心から横に約 20cm の位置とした。<br><u>吸収線量</u> は 1kGy/h×5 時間=5kGy とした。 |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| I-100       | 表 2.2-8          | 表        | <p style="text-align: center;"><b>表 2.2-8 照射試験の条件</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">項目</th> <th style="width: 50%;">条件</th> </tr> </thead> <tbody> <tr> <td>試験</td> <td>ガンマ線照射試験</td> </tr> <tr> <td>照射施設</td> <td>コバルト 1 棟 第 2 照射室</td> </tr> <tr> <td>線源</td> <td>コバルト 60 (Co-60)</td> </tr> <tr> <td><b>照射線量</b></td> <td>5kGy (1kGy/h×5h)</td> </tr> <tr> <td>雰囲気ガス</td> <td>高純度空気</td> </tr> <tr> <td>照射時温度</td> <td>室温</td> </tr> <tr> <td>測定項目</td> <td>水素</td> </tr> </tbody> </table> | 項目                                                                                                                      | 条件 | 試験 | ガンマ線照射試験 | 照射施設 | コバルト 1 棟 第 2 照射室 | 線源 | コバルト 60 (Co-60) | <b>照射線量</b> | 5kGy (1kGy/h×5h) | 雰囲気ガス | 高純度空気 | 照射時温度 | 室温 | 測定項目 | 水素 | <p style="text-align: center;"><b>表 2.2-8 照射試験の条件</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">項目</th> <th style="width: 50%;">条件</th> </tr> </thead> <tbody> <tr> <td>試験</td> <td>ガンマ線照射試験</td> </tr> <tr> <td>照射施設</td> <td>コバルト 1 棟 第 2 照射室</td> </tr> <tr> <td>線源</td> <td>コバルト 60 (Co-60)</td> </tr> <tr> <td><b>吸収線量</b></td> <td>5kGy (1kGy/h×5h)</td> </tr> <tr> <td>雰囲気ガス</td> <td>高純度空気</td> </tr> <tr> <td>照射時温度</td> <td>室温</td> </tr> <tr> <td>測定項目</td> <td>水素</td> </tr> </tbody> </table> | 項目 | 条件 | 試験 | ガンマ線照射試験 | 照射施設 | コバルト 1 棟 第 2 照射室 | 線源 | コバルト 60 (Co-60) | <b>吸収線量</b> | 5kGy (1kGy/h×5h) | 雰囲気ガス | 高純度空気 | 照射時温度 | 室温 | 測定項目 | 水素 |
| 項目          | 条件               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 試験          | ガンマ線照射試験         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 照射施設        | コバルト 1 棟 第 2 照射室 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 線源          | コバルト 60 (Co-60)  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| <b>照射線量</b> | 5kGy (1kGy/h×5h) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 雰囲気ガス       | 高純度空気            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 照射時温度       | 室温               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 測定項目        | 水素               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 項目          | 条件               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 試験          | ガンマ線照射試験         |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 照射施設        | コバルト 1 棟 第 2 照射室 |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 線源          | コバルト 60 (Co-60)  |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| <b>吸収線量</b> | 5kGy (1kGy/h×5h) |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 雰囲気ガス       | 高純度空気            |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 照射時温度       | 室温               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| 測定項目        | 水素               |          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                         |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| I-101       | 2~3 行目           | 本文       | 照射試料への線量測定は、線量計(アミノグレイ)を用いて、試料の照射と同時に試料設置位置の <u>γ線照射累積線量</u> を測定した。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 照射試料への線量測定は、線量計(アミノグレイ)を用いて、試料の照射と同時に試料設置位置の <u>γ線吸収累積線量</u> を測定した。                                                     |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |
| I-104       | 8~9 行目           | 本文       | また、表には、試料 1g あたり、 <u>単位照射線量 (水換算) あたり</u> の水素ガス発生量も併せて示した。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | また、表には、試料 1g <u>当たり</u> 、 <u>単位吸収線量 (水換算) 当たり</u> の水素ガス発生量も併せて示した。                                                      |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |    |    |    |          |      |                  |    |                 |             |                  |       |       |       |    |      |    |

| ページ      | 場所       | 種類     | 誤                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 正                                                                    |          |       |                 |         |                     |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
|----------|----------|--------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------|----------|-------|-----------------|---------|---------------------|------|------|------------|---------------------|----------|------|------|------------|---------------------|----|-----|------|------------|-----|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|-----------------|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|----|-----|---------|---------|------|--------|------|---------|---------|-------|----|-----|---------|---------|------|--------|------|---------|---------|-------|---|-----|---------|--------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|----|-----|---------|--------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|--------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|------|----|-----|----------|------|------|---------|---------------------|-----|---|----|-----|-----|----|-----|------|------------|-----|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|----|-----|---------|-------|------|--------|------|---------|---------|-------|-----------------|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|----|-----|---------|---------|------|--------|------|---------|---------|-------|----|-----|---------|---------|------|--------|------|---------|---------|-------|---|-----|---------|--------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|----|-----|---------|--------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|--------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|---------|------|--------|------|---------|---------|-------|-----|-----|---------|-------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|----------|------|--------|------|---------|---------|-------|-----|-----|---------|
| I-105    | 1~2 行目   | 本文     | 試料 1g あたり、 <b>単位照射線量</b> 当たりの水素ガス発生量と自由水量及び全水分量の関係を報告書の図 2.1-61 に示す。                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 試料 1g 当たり、 <b>単位吸収線量</b> 当たりの水素ガス発生量と自由水量及び全水分量の関係を報告書の図 2.1-61 に示す。 |          |       |                 |         |                     |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| I-105    | 表 2.2-11 | 表      | <p style="text-align: center;"><b>表 2.2-11 照射試験測定結果の一覧</b></p> <table border="1"> <thead> <tr> <th rowspan="2">試料名</th> <th>実照射線量</th> <th rowspan="2">試料質量</th> <th rowspan="2">温度</th> <th rowspan="2">大気圧</th> <th rowspan="2">測定系容器内圧力</th> <th rowspan="2">系統容積</th> <th rowspan="2">水素濃度</th> <th rowspan="2">水素発生量換算</th> <th rowspan="2">水素発生量<sup>*1</sup></th> </tr> <tr> <th>kGy</th> <th>g</th> <th>°C</th> <th>kPa</th> <th>kPa</th> <th>ml</th> <th>ppm</th> <th>μmol</th> <th>μmol/g/kGy</th> </tr> </thead> <tbody> <tr><td>OPC</td><td>5.27</td><td>50.560</td><td>22.4</td><td>100.525</td><td>128.587</td><td>122.0</td><td>495</td><td>3.2</td><td>0.01196</td></tr> <tr><td>OPC-b</td><td>5.65</td><td>40.376</td><td>21.7</td><td>102.332</td><td>126.095</td><td>129.5</td><td>424</td><td>2.8</td><td>0.01227</td></tr> <tr><td>OPC-①</td><td>5.27</td><td>40.808</td><td>22.0</td><td>100.502</td><td>121.565</td><td>128.6</td><td>371</td><td>2.4</td><td>0.01108</td></tr> <tr><td>OPC-②</td><td>5.27</td><td>40.835</td><td>22.2</td><td>100.545</td><td>126.800</td><td>137.8</td><td>245</td><td>1.8</td><td>0.00817</td></tr> <tr><td>OPC-③</td><td>5.65</td><td>40.622</td><td>23.2</td><td>101.871</td><td>121.885</td><td>130.8</td><td>97</td><td>0.6</td><td>0.00272</td></tr> <tr><td>OPC-④</td><td>5.27</td><td>41.531</td><td>22.5</td><td>100.499</td><td>120.855</td><td>142.7</td><td>41</td><td>0.3</td><td>0.00133</td></tr> <tr><td>OPC-⑤</td><td>5.27</td><td>40.242</td><td>22.2</td><td>100.505</td><td>119.047</td><td>138.8</td><td>10</td><td>0.1</td><td>0.00032</td></tr> <tr><td>OPC-⑥</td><td>5.04</td><td>40.181</td><td>19.2</td><td>100.882</td><td>121.142</td><td>137.4</td><td>3<sup>*2</sup></td><td>0.0</td><td>0.00010</td></tr> <tr><td>FAC30</td><td>5.65</td><td>40.220</td><td>22.2</td><td>101.468</td><td>122.850</td><td>136.3</td><td>306</td><td>2.1</td><td>0.00917</td></tr> <tr><td>FAC30-①</td><td>5.27</td><td>40.780</td><td>21.1</td><td>100.520</td><td>128.249</td><td>132.9</td><td>398</td><td>2.8</td><td>0.01301</td></tr> <tr><td>FAC30-②</td><td>5.65</td><td>40.591</td><td>21.8</td><td>101.166</td><td>126.724</td><td>131.1</td><td>241</td><td>1.6</td><td>0.00713</td></tr> <tr><td>FAC30-③</td><td>5.04</td><td>40.251</td><td>19.1</td><td>100.939</td><td>116.803</td><td>139.1</td><td>85</td><td>0.6</td><td>0.00281</td></tr> <tr><td>FAC30-④</td><td>5.27</td><td>40.794</td><td>20.6</td><td>100.601</td><td>120.933</td><td>129.4</td><td>44</td><td>0.3</td><td>0.00132</td></tr> <tr><td>FAC30-⑤</td><td>5.27</td><td>40.640</td><td>21.7</td><td>100.572</td><td>120.927</td><td>137.7</td><td>9</td><td>0.1</td><td>0.00029</td></tr> <tr><td>BFSC30</td><td>5.04</td><td>40.686</td><td>17.7</td><td>101.316</td><td>126.577</td><td>127.4</td><td>480</td><td>3.2</td><td>0.01561</td></tr> <tr><td>BFSC30-①</td><td>5.65</td><td>40.607</td><td>24.5</td><td>101.635</td><td>126.070</td><td>130.5</td><td>234</td><td>1.6</td><td>0.00676</td></tr> <tr><td>BFSC30-②</td><td>5.65</td><td>40.916</td><td>24.5</td><td>101.618</td><td>123.003</td><td>134.7</td><td>70</td><td>0.5</td><td>0.00202</td></tr> <tr><td>BFSC60</td><td>5.04</td><td>40.615</td><td>17.8</td><td>101.249</td><td>126.672</td><td>133.7</td><td>349</td><td>2.4</td><td>0.01195</td></tr> <tr><td>BFSC60-①</td><td>5.65</td><td>40.689</td><td>23.5</td><td>101.21</td><td>122.449</td><td>128.3</td><td>320</td><td>2.0</td><td>0.00888</td></tr> <tr><td>BFSC60-②</td><td>5.65</td><td>40.463</td><td>23.8</td><td>101.209</td><td>123.274</td><td>134.3</td><td>109</td><td>0.7</td><td>0.00320</td></tr> <tr><td>BFSC-90</td><td>5.04</td><td>40.268</td><td>18.1</td><td>101.222</td><td>121.812</td><td>135.2</td><td>330</td><td>2.2</td><td>0.01108</td></tr> <tr><td>OPC-M</td><td>5.04</td><td>50.245</td><td>19.3</td><td>100.907</td><td>119.757</td><td>125.2</td><td>232</td><td>1.4</td><td>0.00568</td></tr> <tr><td>OPC-M-LS</td><td>5.04</td><td>50.604</td><td>18.5</td><td>101.032</td><td>119.250</td><td>131.5</td><td>238</td><td>1.5</td><td>0.00606</td></tr> <tr><td>OPC-M-MS</td><td>5.04</td><td>50.517</td><td>18.9</td><td>101.001</td><td>116.803</td><td>133.9</td><td>228</td><td>1.5</td><td>0.00579</td></tr> <tr><td>OPC-M-PC</td><td>5.04</td><td>50.336</td><td>19.1</td><td>100.957</td><td>119.883</td><td>123.7</td><td>223</td><td>1.4</td><td>0.00539</td></tr> </tbody> </table> <p>※1 照射線量(水換算)から算出した単位試料質量あたり、<b>単位照射線量あたり</b>の H<sub>2</sub> 発生量<br/> ※2 水素濃度の定量下限値は 5ppm 以上であるため参考値</p> | 試料名                                                                  | 実照射線量    | 試料質量  | 温度              | 大気圧     | 測定系容器内圧力            | 系統容積 | 水素濃度 | 水素発生量換算    | 水素発生量 <sup>*1</sup> | kGy      | g    | °C   | kPa        | kPa                 | ml | ppm | μmol | μmol/g/kGy | OPC | 5.27 | 50.560 | 22.4 | 100.525 | 128.587 | 122.0 | 495 | 3.2 | 0.01196 | OPC-b | 5.65 | 40.376 | 21.7 | 102.332 | 126.095 | 129.5 | 424 | 2.8 | 0.01227 | OPC-① | 5.27 | 40.808 | 22.0 | 100.502 | 121.565 | 128.6 | 371 | 2.4 | 0.01108 | OPC-② | 5.27 | 40.835 | 22.2 | 100.545 | 126.800 | 137.8 | 245 | 1.8 | 0.00817 | OPC-③ | 5.65 | 40.622 | 23.2 | 101.871 | 121.885 | 130.8 | 97 | 0.6 | 0.00272 | OPC-④ | 5.27 | 41.531 | 22.5 | 100.499 | 120.855 | 142.7 | 41 | 0.3 | 0.00133 | OPC-⑤ | 5.27 | 40.242 | 22.2 | 100.505 | 119.047 | 138.8 | 10 | 0.1 | 0.00032 | OPC-⑥ | 5.04 | 40.181 | 19.2 | 100.882 | 121.142 | 137.4 | 3 <sup>*2</sup> | 0.0 | 0.00010 | FAC30 | 5.65 | 40.220 | 22.2 | 101.468 | 122.850 | 136.3 | 306 | 2.1 | 0.00917 | FAC30-① | 5.27 | 40.780 | 21.1 | 100.520 | 128.249 | 132.9 | 398 | 2.8 | 0.01301 | FAC30-② | 5.65 | 40.591 | 21.8 | 101.166 | 126.724 | 131.1 | 241 | 1.6 | 0.00713 | FAC30-③ | 5.04 | 40.251 | 19.1 | 100.939 | 116.803 | 139.1 | 85 | 0.6 | 0.00281 | FAC30-④ | 5.27 | 40.794 | 20.6 | 100.601 | 120.933 | 129.4 | 44 | 0.3 | 0.00132 | FAC30-⑤ | 5.27 | 40.640 | 21.7 | 100.572 | 120.927 | 137.7 | 9 | 0.1 | 0.00029 | BFSC30 | 5.04 | 40.686 | 17.7 | 101.316 | 126.577 | 127.4 | 480 | 3.2 | 0.01561 | BFSC30-① | 5.65 | 40.607 | 24.5 | 101.635 | 126.070 | 130.5 | 234 | 1.6 | 0.00676 | BFSC30-② | 5.65 | 40.916 | 24.5 | 101.618 | 123.003 | 134.7 | 70 | 0.5 | 0.00202 | BFSC60 | 5.04 | 40.615 | 17.8 | 101.249 | 126.672 | 133.7 | 349 | 2.4 | 0.01195 | BFSC60-① | 5.65 | 40.689 | 23.5 | 101.21 | 122.449 | 128.3 | 320 | 2.0 | 0.00888 | BFSC60-② | 5.65 | 40.463 | 23.8 | 101.209 | 123.274 | 134.3 | 109 | 0.7 | 0.00320 | BFSC-90 | 5.04 | 40.268 | 18.1 | 101.222 | 121.812 | 135.2 | 330 | 2.2 | 0.01108 | OPC-M | 5.04 | 50.245 | 19.3 | 100.907 | 119.757 | 125.2 | 232 | 1.4 | 0.00568 | OPC-M-LS | 5.04 | 50.604 | 18.5 | 101.032 | 119.250 | 131.5 | 238 | 1.5 | 0.00606 | OPC-M-MS | 5.04 | 50.517 | 18.9 | 101.001 | 116.803 | 133.9 | 228 | 1.5 | 0.00579 | OPC-M-PC | 5.04 | 50.336 | 19.1 | 100.957 | 119.883 | 123.7 | 223 | 1.4 | 0.00539 | <p style="text-align: center;"><b>表 2.2-11 照射試験測定結果の一覧</b></p> <table border="1"> <thead> <tr> <th rowspan="2">試料名</th> <th>吸収線量</th> <th rowspan="2">試料質量</th> <th rowspan="2">温度</th> <th rowspan="2">大気圧</th> <th rowspan="2">測定系容器内圧力</th> <th rowspan="2">系統容積</th> <th rowspan="2">水素濃度</th> <th rowspan="2">水素発生量換算</th> <th rowspan="2">水素発生量<sup>*1</sup></th> </tr> <tr> <th>kGy</th> <th>g</th> <th>°C</th> <th>kPa</th> <th>kPa</th> <th>ml</th> <th>ppm</th> <th>μmol</th> <th>μmol/g/kGy</th> </tr> </thead> <tbody> <tr><td>OPC</td><td>5.27</td><td>50.560</td><td>22.4</td><td>100.525</td><td>128.587</td><td>122.0</td><td>495</td><td>3.2</td><td>0.01196</td></tr> <tr><td>OPC-b</td><td>5.65</td><td>40.376</td><td>21.7</td><td>102.332</td><td>126.095</td><td>129.5</td><td>424</td><td>2.8</td><td>0.01227</td></tr> <tr><td>OPC-①</td><td>5.27</td><td>40.808</td><td>22.0</td><td>100.502</td><td>121.565</td><td>128.6</td><td>371</td><td>2.4</td><td>0.01108</td></tr> <tr><td>OPC-②</td><td>5.27</td><td>40.835</td><td>22.2</td><td>100.545</td><td>126.800</td><td>137.8</td><td>245</td><td>1.8</td><td>0.00817</td></tr> <tr><td>OPC-③</td><td>5.65</td><td>40.622</td><td>23.2</td><td>101.871</td><td>121.885</td><td>130.8</td><td>97</td><td>0.6</td><td>0.00272</td></tr> <tr><td>OPC-④</td><td>5.27</td><td>41.531</td><td>22.5</td><td>100.499</td><td>120.855</td><td>142.7</td><td>41</td><td>0.3</td><td>0.00133</td></tr> <tr><td>OPC-⑤</td><td>5.27</td><td>40.242</td><td>22.2</td><td>100.505</td><td>119.047</td><td>138.8</td><td>10</td><td>0.1</td><td>0.00032</td></tr> <tr><td>OPC-⑥</td><td>5.04</td><td>40.181</td><td>19.2</td><td>100.882</td><td>121.142</td><td>137.4</td><td>3<sup>*2</sup></td><td>0.0</td><td>0.00010</td></tr> <tr><td>FAC30</td><td>5.65</td><td>40.220</td><td>22.2</td><td>101.468</td><td>122.850</td><td>136.3</td><td>306</td><td>2.1</td><td>0.00917</td></tr> <tr><td>FAC30-①</td><td>5.27</td><td>40.780</td><td>21.1</td><td>100.520</td><td>128.249</td><td>132.9</td><td>398</td><td>2.8</td><td>0.01301</td></tr> <tr><td>FAC30-②</td><td>5.65</td><td>40.591</td><td>21.8</td><td>101.166</td><td>126.724</td><td>131.1</td><td>241</td><td>1.6</td><td>0.00713</td></tr> <tr><td>FAC30-③</td><td>5.04</td><td>40.251</td><td>19.1</td><td>100.939</td><td>116.803</td><td>139.1</td><td>85</td><td>0.6</td><td>0.00281</td></tr> <tr><td>FAC30-④</td><td>5.27</td><td>40.794</td><td>20.6</td><td>100.601</td><td>120.933</td><td>129.4</td><td>44</td><td>0.3</td><td>0.00132</td></tr> <tr><td>FAC30-⑤</td><td>5.27</td><td>40.640</td><td>21.7</td><td>100.572</td><td>120.927</td><td>137.7</td><td>9</td><td>0.1</td><td>0.00029</td></tr> <tr><td>BFSC30</td><td>5.04</td><td>40.686</td><td>17.7</td><td>101.316</td><td>126.577</td><td>127.4</td><td>480</td><td>3.2</td><td>0.01561</td></tr> <tr><td>BFSC30-①</td><td>5.65</td><td>40.607</td><td>24.5</td><td>101.635</td><td>126.070</td><td>130.5</td><td>234</td><td>1.6</td><td>0.00676</td></tr> <tr><td>BFSC30-②</td><td>5.65</td><td>40.916</td><td>24.5</td><td>101.618</td><td>123.003</td><td>134.7</td><td>70</td><td>0.5</td><td>0.00202</td></tr> <tr><td>BFSC60</td><td>5.04</td><td>40.615</td><td>17.8</td><td>101.249</td><td>126.672</td><td>133.7</td><td>349</td><td>2.4</td><td>0.01195</td></tr> <tr><td>BFSC60-①</td><td>5.65</td><td>40.689</td><td>23.5</td><td>101.21</td><td>122.449</td><td>128.3</td><td>320</td><td>2.0</td><td>0.00888</td></tr> <tr><td>BFSC60-②</td><td>5.65</td><td>40.463</td><td>23.8</td><td>101.209</td><td>123.274</td><td>134.3</td><td>109</td><td>0.7</td><td>0.00320</td></tr> <tr><td>BFSC-90</td><td>5.04</td><td>40.268</td><td>18.1</td><td>101.222</td><td>121.812</td><td>135.2</td><td>330</td><td>2.2</td><td>0.01108</td></tr> <tr><td>OPC-M</td><td>5.04</td><td>50.245</td><td>19.3</td><td>100.907</td><td>119.757</td><td>125.2</td><td>232</td><td>1.4</td><td>0.00568</td></tr> <tr><td>OPC-M-LS</td><td>5.04</td><td>50.604</td><td>18.5</td><td>101.032</td><td>119.250</td><td>131.5</td><td>238</td><td>1.5</td><td>0.00606</td></tr> <tr><td>OPC-M-MS</td><td>5.04</td><td>50.517</td><td>18.9</td><td>101.001</td><td>116.803</td><td>133.9</td><td>228</td><td>1.5</td><td>0.00579</td></tr> <tr><td>OPC-M-PC</td><td>5.04</td><td>50.336</td><td>19.1</td><td>100.957</td><td>119.883</td><td>123.7</td><td>223</td><td>1.4</td><td>0.00539</td></tr> </tbody> </table> <p>※1 吸収線量(水換算)から算出した単位試料質量当たり、<b>単位吸収線量あたり</b>の H<sub>2</sub> 発生量<br/> ※2 水素濃度の定量下限値は 5ppm 以上であるため参考値</p> | 試料名 | 吸収線量 | 試料質量 | 温度 | 大気圧 | 測定系容器内圧力 | 系統容積 | 水素濃度 | 水素発生量換算 | 水素発生量 <sup>*1</sup> | kGy | g | °C | kPa | kPa | ml | ppm | μmol | μmol/g/kGy | OPC | 5.27 | 50.560 | 22.4 | 100.525 | 128.587 | 122.0 | 495 | 3.2 | 0.01196 | OPC-b | 5.65 | 40.376 | 21.7 | 102.332 | 126.095 | 129.5 | 424 | 2.8 | 0.01227 | OPC-① | 5.27 | 40.808 | 22.0 | 100.502 | 121.565 | 128.6 | 371 | 2.4 | 0.01108 | OPC-② | 5.27 | 40.835 | 22.2 | 100.545 | 126.800 | 137.8 | 245 | 1.8 | 0.00817 | OPC-③ | 5.65 | 40.622 | 23.2 | 101.871 | 121.885 | 130.8 | 97 | 0.6 | 0.00272 | OPC-④ | 5.27 | 41.531 | 22.5 | 100.499 | 120.855 | 142.7 | 41 | 0.3 | 0.00133 | OPC-⑤ | 5.27 | 40.242 | 22.2 | 100.505 | 119.047 | 138.8 | 10 | 0.1 | 0.00032 | OPC-⑥ | 5.04 | 40.181 | 19.2 | 100.882 | 121.142 | 137.4 | 3 <sup>*2</sup> | 0.0 | 0.00010 | FAC30 | 5.65 | 40.220 | 22.2 | 101.468 | 122.850 | 136.3 | 306 | 2.1 | 0.00917 | FAC30-① | 5.27 | 40.780 | 21.1 | 100.520 | 128.249 | 132.9 | 398 | 2.8 | 0.01301 | FAC30-② | 5.65 | 40.591 | 21.8 | 101.166 | 126.724 | 131.1 | 241 | 1.6 | 0.00713 | FAC30-③ | 5.04 | 40.251 | 19.1 | 100.939 | 116.803 | 139.1 | 85 | 0.6 | 0.00281 | FAC30-④ | 5.27 | 40.794 | 20.6 | 100.601 | 120.933 | 129.4 | 44 | 0.3 | 0.00132 | FAC30-⑤ | 5.27 | 40.640 | 21.7 | 100.572 | 120.927 | 137.7 | 9 | 0.1 | 0.00029 | BFSC30 | 5.04 | 40.686 | 17.7 | 101.316 | 126.577 | 127.4 | 480 | 3.2 | 0.01561 | BFSC30-① | 5.65 | 40.607 | 24.5 | 101.635 | 126.070 | 130.5 | 234 | 1.6 | 0.00676 | BFSC30-② | 5.65 | 40.916 | 24.5 | 101.618 | 123.003 | 134.7 | 70 | 0.5 | 0.00202 | BFSC60 | 5.04 | 40.615 | 17.8 | 101.249 | 126.672 | 133.7 | 349 | 2.4 | 0.01195 | BFSC60-① | 5.65 | 40.689 | 23.5 | 101.21 | 122.449 | 128.3 | 320 | 2.0 | 0.00888 | BFSC60-② | 5.65 | 40.463 | 23.8 | 101.209 | 123.274 | 134.3 | 109 | 0.7 | 0.00320 | BFSC-90 | 5.04 | 40.268 | 18.1 | 101.222 | 121.812 | 135.2 | 330 | 2.2 | 0.01108 | OPC-M | 5.04 | 50.245 | 19.3 | 100.907 | 119.757 | 125.2 | 232 | 1.4 | 0.00568 | OPC-M-LS | 5.04 | 50.604 | 18.5 | 101.032 | 119.250 | 131.5 | 238 | 1.5 | 0.00606 | OPC-M-MS | 5.04 | 50.517 | 18.9 | 101.001 | 116.803 | 133.9 | 228 | 1.5 | 0.00579 | OPC-M-PC | 5.04 | 50.336 | 19.1 | 100.957 | 119.883 | 123.7 | 223 | 1.4 | 0.00539 |
| 試料名      | 実照射線量    | 試料質量   | 温度                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                      | 大気圧      |       |                 |         |                     |      |      |            |                     | 測定系容器内圧力 | 系統容積 | 水素濃度 | 水素発生量換算    | 水素発生量 <sup>*1</sup> |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
|          | kGy      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | g                                                                    |          | °C    | kPa             | kPa     | ml                  | ppm  | μmol | μmol/g/kGy |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC      | 5.27     | 50.560 | 22.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.525                                                              | 128.587  | 122.0 | 495             | 3.2     | 0.01196             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-b    | 5.65     | 40.376 | 21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 102.332                                                              | 126.095  | 129.5 | 424             | 2.8     | 0.01227             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-①    | 5.27     | 40.808 | 22.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.502                                                              | 121.565  | 128.6 | 371             | 2.4     | 0.01108             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-②    | 5.27     | 40.835 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.545                                                              | 126.800  | 137.8 | 245             | 1.8     | 0.00817             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-③    | 5.65     | 40.622 | 23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.871                                                              | 121.885  | 130.8 | 97              | 0.6     | 0.00272             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-④    | 5.27     | 41.531 | 22.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.499                                                              | 120.855  | 142.7 | 41              | 0.3     | 0.00133             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-⑤    | 5.27     | 40.242 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.505                                                              | 119.047  | 138.8 | 10              | 0.1     | 0.00032             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-⑥    | 5.04     | 40.181 | 19.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.882                                                              | 121.142  | 137.4 | 3 <sup>*2</sup> | 0.0     | 0.00010             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30    | 5.65     | 40.220 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.468                                                              | 122.850  | 136.3 | 306             | 2.1     | 0.00917             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-①  | 5.27     | 40.780 | 21.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.520                                                              | 128.249  | 132.9 | 398             | 2.8     | 0.01301             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-②  | 5.65     | 40.591 | 21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.166                                                              | 126.724  | 131.1 | 241             | 1.6     | 0.00713             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-③  | 5.04     | 40.251 | 19.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.939                                                              | 116.803  | 139.1 | 85              | 0.6     | 0.00281             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-④  | 5.27     | 40.794 | 20.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.601                                                              | 120.933  | 129.4 | 44              | 0.3     | 0.00132             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-⑤  | 5.27     | 40.640 | 21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.572                                                              | 120.927  | 137.7 | 9               | 0.1     | 0.00029             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30   | 5.04     | 40.686 | 17.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.316                                                              | 126.577  | 127.4 | 480             | 3.2     | 0.01561             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30-① | 5.65     | 40.607 | 24.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.635                                                              | 126.070  | 130.5 | 234             | 1.6     | 0.00676             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30-② | 5.65     | 40.916 | 24.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.618                                                              | 123.003  | 134.7 | 70              | 0.5     | 0.00202             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60   | 5.04     | 40.615 | 17.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.249                                                              | 126.672  | 133.7 | 349             | 2.4     | 0.01195             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60-① | 5.65     | 40.689 | 23.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.21                                                               | 122.449  | 128.3 | 320             | 2.0     | 0.00888             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60-② | 5.65     | 40.463 | 23.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.209                                                              | 123.274  | 134.3 | 109             | 0.7     | 0.00320             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC-90  | 5.04     | 40.268 | 18.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.222                                                              | 121.812  | 135.2 | 330             | 2.2     | 0.01108             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M    | 5.04     | 50.245 | 19.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.907                                                              | 119.757  | 125.2 | 232             | 1.4     | 0.00568             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-LS | 5.04     | 50.604 | 18.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.032                                                              | 119.250  | 131.5 | 238             | 1.5     | 0.00606             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-MS | 5.04     | 50.517 | 18.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.001                                                              | 116.803  | 133.9 | 228             | 1.5     | 0.00579             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-PC | 5.04     | 50.336 | 19.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.957                                                              | 119.883  | 123.7 | 223             | 1.4     | 0.00539             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| 試料名      | 吸収線量     | 試料質量   | 温度                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 大気圧                                                                  | 測定系容器内圧力 | 系統容積  | 水素濃度            | 水素発生量換算 | 水素発生量 <sup>*1</sup> |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
|          | kGy      |        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                      |          |       |                 |         |                     | g    | °C   | kPa        | kPa                 | ml       | ppm  | μmol | μmol/g/kGy |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC      | 5.27     | 50.560 | 22.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.525                                                              | 128.587  | 122.0 | 495             | 3.2     | 0.01196             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-b    | 5.65     | 40.376 | 21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 102.332                                                              | 126.095  | 129.5 | 424             | 2.8     | 0.01227             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-①    | 5.27     | 40.808 | 22.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.502                                                              | 121.565  | 128.6 | 371             | 2.4     | 0.01108             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-②    | 5.27     | 40.835 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.545                                                              | 126.800  | 137.8 | 245             | 1.8     | 0.00817             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-③    | 5.65     | 40.622 | 23.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.871                                                              | 121.885  | 130.8 | 97              | 0.6     | 0.00272             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-④    | 5.27     | 41.531 | 22.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.499                                                              | 120.855  | 142.7 | 41              | 0.3     | 0.00133             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-⑤    | 5.27     | 40.242 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.505                                                              | 119.047  | 138.8 | 10              | 0.1     | 0.00032             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-⑥    | 5.04     | 40.181 | 19.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.882                                                              | 121.142  | 137.4 | 3 <sup>*2</sup> | 0.0     | 0.00010             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30    | 5.65     | 40.220 | 22.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.468                                                              | 122.850  | 136.3 | 306             | 2.1     | 0.00917             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-①  | 5.27     | 40.780 | 21.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.520                                                              | 128.249  | 132.9 | 398             | 2.8     | 0.01301             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-②  | 5.65     | 40.591 | 21.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.166                                                              | 126.724  | 131.1 | 241             | 1.6     | 0.00713             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-③  | 5.04     | 40.251 | 19.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.939                                                              | 116.803  | 139.1 | 85              | 0.6     | 0.00281             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-④  | 5.27     | 40.794 | 20.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.601                                                              | 120.933  | 129.4 | 44              | 0.3     | 0.00132             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| FAC30-⑤  | 5.27     | 40.640 | 21.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.572                                                              | 120.927  | 137.7 | 9               | 0.1     | 0.00029             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30   | 5.04     | 40.686 | 17.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.316                                                              | 126.577  | 127.4 | 480             | 3.2     | 0.01561             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30-① | 5.65     | 40.607 | 24.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.635                                                              | 126.070  | 130.5 | 234             | 1.6     | 0.00676             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC30-② | 5.65     | 40.916 | 24.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.618                                                              | 123.003  | 134.7 | 70              | 0.5     | 0.00202             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60   | 5.04     | 40.615 | 17.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.249                                                              | 126.672  | 133.7 | 349             | 2.4     | 0.01195             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60-① | 5.65     | 40.689 | 23.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.21                                                               | 122.449  | 128.3 | 320             | 2.0     | 0.00888             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC60-② | 5.65     | 40.463 | 23.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.209                                                              | 123.274  | 134.3 | 109             | 0.7     | 0.00320             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| BFSC-90  | 5.04     | 40.268 | 18.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.222                                                              | 121.812  | 135.2 | 330             | 2.2     | 0.01108             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M    | 5.04     | 50.245 | 19.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.907                                                              | 119.757  | 125.2 | 232             | 1.4     | 0.00568             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-LS | 5.04     | 50.604 | 18.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.032                                                              | 119.250  | 131.5 | 238             | 1.5     | 0.00606             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-MS | 5.04     | 50.517 | 18.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 101.001                                                              | 116.803  | 133.9 | 228             | 1.5     | 0.00579             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |
| OPC-M-PC | 5.04     | 50.336 | 19.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 100.957                                                              | 119.883  | 123.7 | 223             | 1.4     | 0.00539             |      |      |            |                     |          |      |      |            |                     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |     |      |      |    |     |          |      |      |         |                     |     |   |    |     |     |    |     |      |            |     |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |    |     |         |       |      |        |      |         |         |       |                 |     |         |       |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |    |     |         |         |      |        |      |         |         |       |   |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |    |     |         |        |      |        |      |         |         |       |     |     |         |          |      |        |      |        |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |         |      |        |      |         |         |       |     |     |         |       |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |          |      |        |      |         |         |       |     |     |         |

| ページ                          | 場所                                       | 種類                   | 誤                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 正                                                                                                                                                                                                                                                  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
|------------------------------|------------------------------------------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------|-------------------|-------|-------|------------------------------|-------|-------|----------------|-------|-------|---------------|-------|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------|-------|-------------------|-------|-------|------------------------------|-------|-------|----------------|-------|-------|---------------|-------|-------|
| I-106                        | 3行目<br>7行目<br>9~10行目<br>22~23行目          | 本文<br>本文<br>本文<br>本文 | ここで、これらの結果は、 <u>照射線量（水換算）</u> に対して整理した結果であるため、<br>平成30年度は、前項のように水換算した <u>照射線量</u> を用いて水素ガス発生量を評価していたが、<br>本項では、試料に対する吸収線量を今回実施した水換算の <u>照射線量</u> から算出した。<br>例えば、試料 OPC-b の場合、 <u>照射線量（水換算）</u> は 5650Gy、 $(\Sigma Z/\Sigma A)s=52.42/101.11$ であった。                                                                                                                                                                                                                                                                                 | ここで、これらの結果は、 <u>吸収線量（水換算）</u> に対して整理した結果であるため、<br>平成30年度は、前項のように水換算した <u>吸収線量</u> を用いて水素ガス発生量を評価していたが、<br>本項では、試料に対する吸収線量を今回実施した水換算の <u>吸収線量</u> から算出した。<br>例えば、試料 OPC-b の場合、 <u>吸収線量（水換算）</u> は 5650Gy、 $(\Sigma Z/\Sigma A)s=52.42/101.11$ であった。 |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| I-111                        | 4~5行目                                    | 本文                   | なお、水素発生が抑制される圧力領域までガス発生させるためには <u>照射線量</u> を増やす必要がある。                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | なお、水素発生が抑制される圧力領域までガス発生させるためには <u>吸収線量</u> を増やす必要がある。                                                                                                                                                                                              |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| I-118                        | 3~4行目<br>4~5行目                           | 本文<br>本文             | <u>照射線量</u> に対する圧力変化を報告書の図 2.1-66 に示す。<br>2回目照射試験の結果では、 <u>照射線量</u> に対して直線的に圧力上昇が見られた。                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>吸収線量</u> に対する圧力変化を報告書の図 2.1-66 に示す。<br>2回目照射試験の結果では、 <u>吸収線量</u> に対して直線的に圧力上昇が見られた。                                                                                                                                                             |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| I-119                        | 表 2.2-21                                 | 表                    | <p style="text-align: center;">表 2.2-21 照射試験の条件 <math>\gamma</math> 線吸収線量</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>1回目照射</th> <th>2回目照射</th> </tr> </thead> <tbody> <tr> <td>照射線量(水の吸収線量換算):Gy</td> <td>51848</td> <td>73924</td> </tr> <tr> <td>圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy</td> <td>51744</td> <td>73776</td> </tr> <tr> <td>セメント試料の吸収線量:Gy</td> <td>48460</td> <td>69047</td> </tr> <tr> <td>試料中の水の吸収線量:Gy</td> <td>20354</td> <td>28557</td> </tr> </tbody> </table> |                                                                                                                                                                                                                                                    | 1回目照射 | 2回目照射 | 照射線量(水の吸収線量換算):Gy | 51848 | 73924 | 圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy | 51744 | 73776 | セメント試料の吸収線量:Gy | 48460 | 69047 | 試料中の水の吸収線量:Gy | 20354 | 28557 | <p style="text-align: center;">表 2.2-21 照射試験の条件 <math>\gamma</math> 線吸収線量</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th>1回目照射</th> <th>2回目照射</th> </tr> </thead> <tbody> <tr> <td>吸収線量(水の吸収線量換算):Gy</td> <td>51848</td> <td>73924</td> </tr> <tr> <td>圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy</td> <td>51744</td> <td>73776</td> </tr> <tr> <td>セメント試料の吸収線量:Gy</td> <td>48460</td> <td>69047</td> </tr> <tr> <td>試料中の水の吸収線量:Gy</td> <td>20354</td> <td>28557</td> </tr> </tbody> </table> |  | 1回目照射 | 2回目照射 | 吸収線量(水の吸収線量換算):Gy | 51848 | 73924 | 圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy | 51744 | 73776 | セメント試料の吸収線量:Gy | 48460 | 69047 | 試料中の水の吸収線量:Gy | 20354 | 28557 |
|                              | 1回目照射                                    | 2回目照射                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 照射線量(水の吸収線量換算):Gy            | 51848                                    | 73924                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy | 51744                                    | 73776                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| セメント試料の吸収線量:Gy               | 48460                                    | 69047                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 試料中の水の吸収線量:Gy                | 20354                                    | 28557                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
|                              | 1回目照射                                    | 2回目照射                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 吸収線量(水の吸収線量換算):Gy            | 51848                                    | 73924                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 圧力容器の減衰補正した吸収線量(水の吸収線量換算):Gy | 51744                                    | 73776                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| セメント試料の吸収線量:Gy               | 48460                                    | 69047                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| 試料中の水の吸収線量:Gy                | 20354                                    | 28557                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                    |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |
| I-120                        | 18~19行目<br>19~20行目<br>21~22行目<br>23~24行目 | 本文<br>本文<br>本文<br>本文 | <u>照射線量</u> を高くし、圧力が高い領域における試験を実施し、圧力上昇による水素ガス発生抑制効果を見極める必要がある。<br>その場合、 <u>照射線量の高い</u> 施設での実施が不可欠となる。<br><u>照射線量の高い</u> 施設での実施においては測定機器に対して遮蔽機構を設ける等の対応も必要となる。<br><u>照射線量の高い</u> 試験を行うための検討を行っていく必要がある。                                                                                                                                                                                                                                                                                                                           | <u>吸収線量</u> を高くし、圧力が高い領域における試験を実施し、圧力上昇による水素ガス発生抑制効果を見極める必要がある。<br>その場合、 <u>線源の線量の高い</u> 施設での実施が不可欠となる。<br><u>線源の線量の高い</u> 施設での実施においては測定機器に対して遮蔽機構を設ける等の対応も必要となる。<br><u>高線量条件下での</u> 試験を行うための検討を行っていく必要がある。                                        |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |       |       |                   |       |       |                              |       |       |                |       |       |               |       |       |

| ページ   | 場所                   | 種類       | 誤                                                                                                              | 正                                                                                                             |
|-------|----------------------|----------|----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| I-121 | 30~31 行目<br>32~33 行目 | 本文<br>本文 | 平衡に到達し圧力上昇が収束する挙動を検討するためには <u>照射線量</u> を高くし、<br><u>照射線量の高い</u> 施設での測定を実施するには測定機器に対して遮蔽機構を設ける等の対応を検討することも必要となる。 | 平衡に到達し圧力上昇が収束する挙動を検討するためには <u>線量</u> を高くし、<br><u>線源の線量の高い</u> 施設での測定を実施するには測定機器に対して遮蔽機構を設ける等の対応を検討することも必要となる。 |