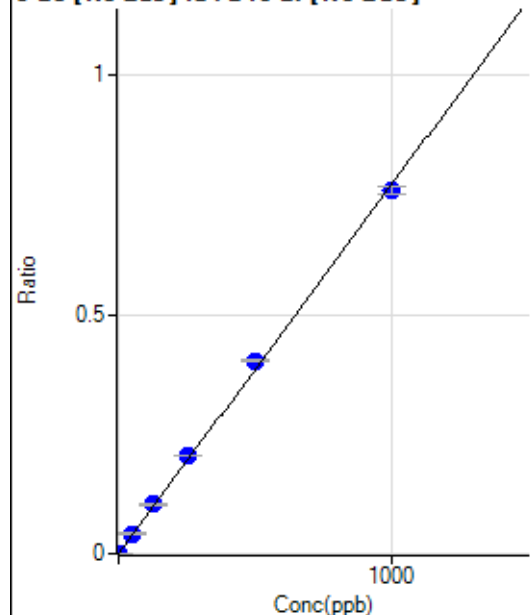


Batch Folder: D:\ICP-MS Data\P7070218 MS.b\  
Analysis File: P7070218 MS.batch.bin  
DA Date-Time: 2018-07-02 23:48:00  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2018-07-02 13:53:24 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2018-07-02 14:00:53 |
| 4     | 006CALS.d          | S03         | 2018-07-02 14:04:46 |
| 5     | 007CALS.d          | S04         | 2018-07-02 14:08:39 |
| 6     | 008CALS.d          | S05         | 2018-07-02 14:12:31 |
| 7     | 009CALS.d          | S06         | 2018-07-02 14:16:19 |
| 8     | 010CALS.d          | S07         | 2018-07-02 14:20:05 |
| 9     | 011CALS.d          | S08         | 2018-07-02 14:23:49 |

9 Be [No Gas] ISTD:6 Li [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 29.63     | 0.0000 | P    | 38.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.950      | 807.45    | 0.0008 | P    | 12.7 |
| 4 | <input type="checkbox"/> | 50.000   | 54.340     | 44836.97  | 0.0420 | P    | 2.0  |
| 5 | <input type="checkbox"/> | 125.000  | 134.327    | 111334.98 | 0.1037 | P    | 2.4  |
| 6 | <input type="checkbox"/> | 250.000  | 264.395    | 218092.32 | 0.2040 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 523.346    | 425093.92 | 0.4038 | P    | 1.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 983.346    | 812515.52 | 0.7587 | P    | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 620.40    | 0.0006 | P    | 11.4 |

$$y = 7.7151\text{E-}004 * x + 2.7638\text{E-}005$$

$$R = 0.9995$$

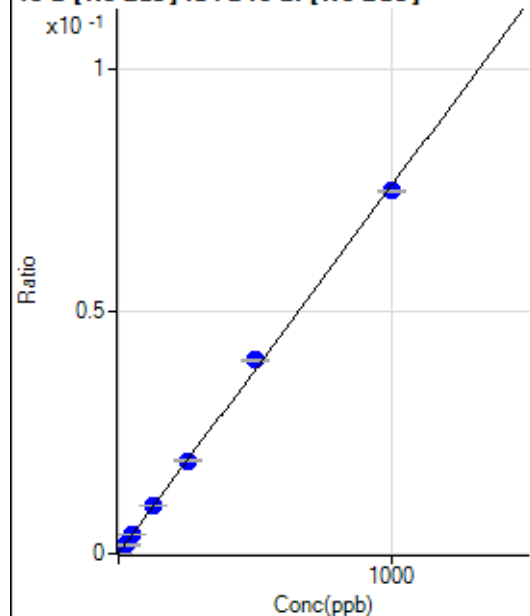
$$DL = 0.04114$$

$$BEC = 0.03582$$

Weight: &lt;None&gt;

Min Conc: 0

10 B [No Gas] ISTD:6 Li [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45    | 0.0001 | P    | 17.9 |
| 2 | <input type="checkbox"/> | 2.500    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 25.000   | 23.110     | 1927.99  | 0.0018 | P    | 5.8  |
| 4 | <input type="checkbox"/> | 50.000   | 51.041     | 4206.32  | 0.0039 | P    | 5.6  |
| 5 | <input type="checkbox"/> | 125.000  | 129.796    | 10637.51 | 0.0099 | P    | 2.4  |
| 6 | <input type="checkbox"/> | 250.000  | 252.217    | 20506.17 | 0.0192 | P    | 3.0  |
| 7 | <input type="checkbox"/> | 500.000  | 525.257    | 41989.79 | 0.0399 | P    | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.213    | 80148.45 | 0.0748 | P    | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 5615.18  | 0.0057 | P    | 15.8 |

$$y = 7.5806\text{E-}005 * x + 6.4940\text{E-}005$$

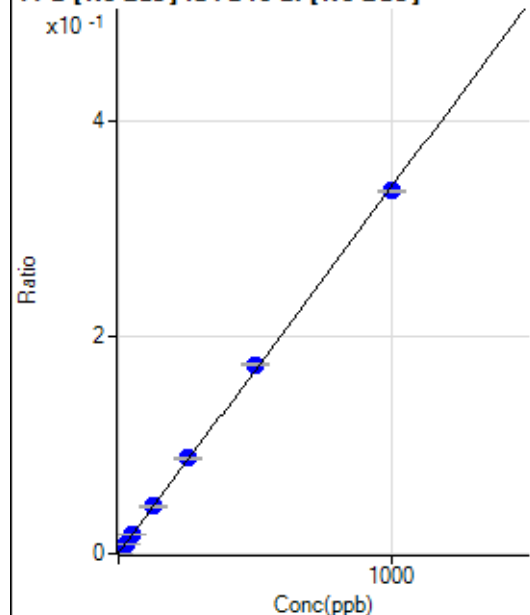
$$R = 0.9995$$

$$DL = 0.4588$$

$$BEC = 0.8567$$

Weight: &lt;None&gt;

Min Conc: 0

**11 B [No Gas] ISTD:6 Li [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 350.02    | 0.0003 | P   | 23.1 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 25.000   | 24.020     | 8966.93   | 0.0084 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 50.000   | 52.159     | 19201.81  | 0.0180 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 125.000  | 129.184    | 47266.73  | 0.0440 | P   | 2.9  |
| 6 | <input type="checkbox"/> | 250.000  | 259.268    | 94063.88  | 0.0880 | P   | 2.4  |
| 7 | <input type="checkbox"/> | 500.000  | 515.469    | 183876.38 | 0.1746 | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.342    | 358720.46 | 0.3349 | P   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 23535.88  | 0.0240 | P   | 8.5  |

$$y = 3.3816E-004 * x + 3.2728E-004$$

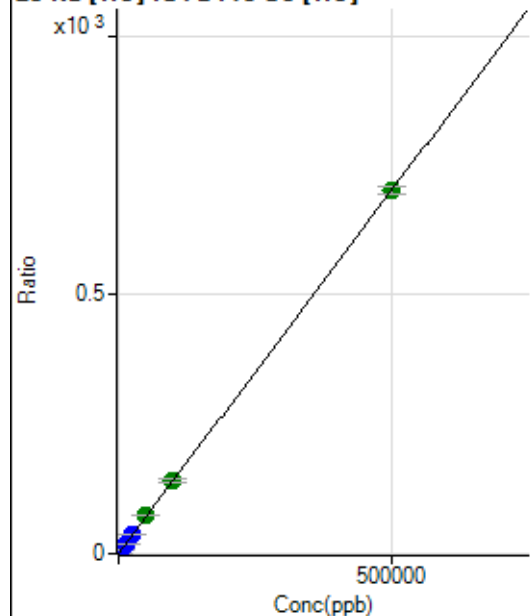
$$R = 0.9998$$

$$DL = 0.6701$$

$$BEC = 0.9678$$

Weight: &lt;None&gt;

Min Conc: 0

**23 Na [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 4450.85     | 0.0392   | P   | 0.4 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 461.845    | 78340.94    | 0.6866   | P   | 2.6 |
| 4 | <input type="checkbox"/> | 5000.000  | 5105.940   | 815086.08   | 7.1969   | P   | 5.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12492.702  | 2034040.85  | 17.5520  | P   | 3.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 27292.342  | 4019915.93  | 38.2989  | P   | 1.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 52205.263  | 7663107.64  | 73.2231  | A   | 1.2 |
| 8 | <input type="checkbox"/> | 100000.00 | 100319.44  | 14785971.68 | 140.6719 | A   | 5.2 |
| 9 | <input type="checkbox"/> | 500000.00 | 499600.12  | 73654701.64 | 700.4033 | A   | 2.1 |

$$y = 0.0014 * x + 0.0392$$

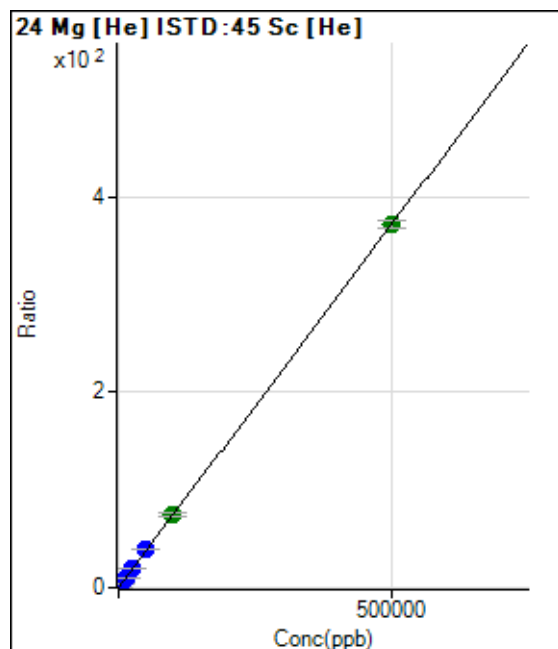
$$R = 1.0000$$

$$DL = 0.343$$

$$BEC = 27.93$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 961.18      | 0.0085   | P    | 10.5 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 463.320    | 40216.00    | 0.3524   | P    | 1.8  |
| 4 | <input type="checkbox"/> | 5000.000  | 5097.683   | 429496.39   | 3.7929   | P    | 5.9  |
| 5 | <input type="checkbox"/> | 12500.000 | 12436.319  | 1070914.53  | 9.2411   | P    | 3.2  |
| 6 | <input type="checkbox"/> | 25000.000 | 26873.068  | 2094890.28  | 19.9588  | P    | 1.8  |
| 7 | <input type="checkbox"/> | 50000.000 | 52786.707  | 4102147.40  | 39.1969  | P    | 1.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 99813.084  | 7789624.57  | 74.1089  | A    | 5.1  |
| 9 | <input type="checkbox"/> | 500000.00 | 499665.71  | 39010144.97 | 370.9563 | A    | 2.1  |

$$y = 7.4239\text{E-}004 * x + 0.0085$$

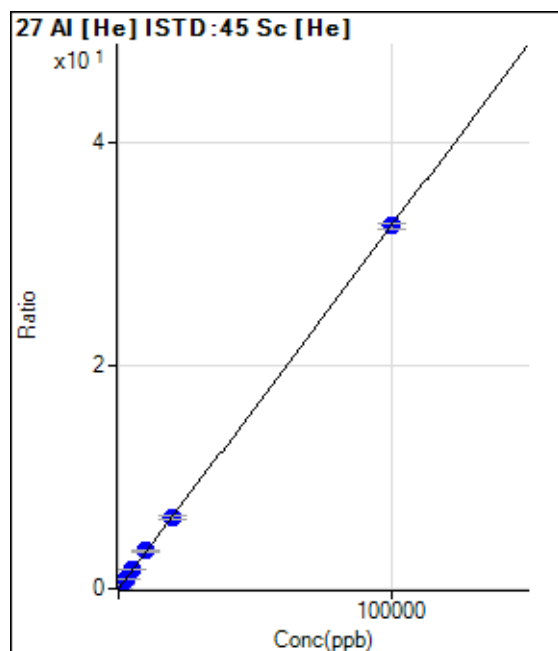
$$R = 1.0000$$

$$DL = 3.584$$

$$BEC = 11.38$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 58.34      | 0.0005  | P    | 0.9  |
| 2 | <input type="checkbox"/> | 2.000     |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 20.000    | 18.991     | 763.94     | 0.0067  | P    | 10.9 |
| 4 | <input type="checkbox"/> | 1000.000  | 1028.560   | 38013.12   | 0.3356  | P    | 5.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2479.481   | 93675.92   | 0.8084  | P    | 3.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5322.841   | 182090.24  | 1.7349  | P    | 2.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 10360.793  | 353345.70  | 3.3764  | P    | 1.6  |
| 8 | <input type="checkbox"/> | 20000.000 | 19860.553  | 680207.96  | 6.4717  | P    | 5.3  |
| 9 | <input type="checkbox"/> | 100000.00 | 99975.896  | 3425807.80 | 32.5756 | P    | 1.8  |

$$y = 3.2583\text{E-}004 * x + 5.1323\text{E-}004$$

$$R = 1.0000$$

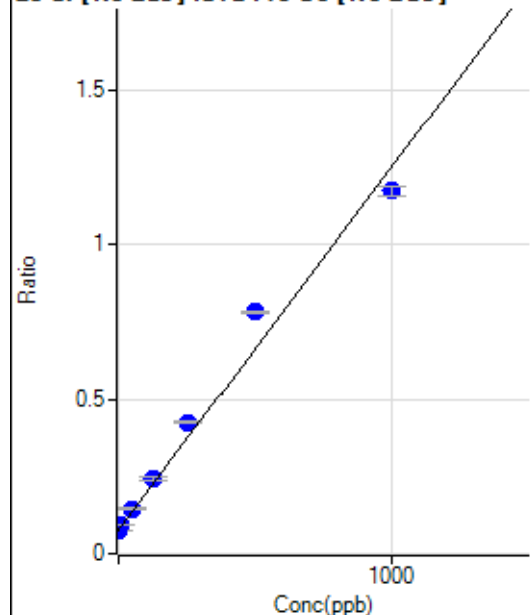
$$DL = 0.04072$$

$$BEC = 1.575$$

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD :45 Sc [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 192163.47  | 0.0767 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 10.000   | 11.727     | 224746.20  | 0.0905 | P    | 0.2 |
| 4 | <input type="checkbox"/> | 50.000   | 58.933     | 359966.93  | 0.1459 | P    | 4.2 |
| 5 | <input type="checkbox"/> | 125.000  | 141.577    | 595292.68  | 0.2430 | P    | 4.4 |
| 6 | <input type="checkbox"/> | 250.000  | 296.271    | 1001669.41 | 0.4247 | P    | 1.2 |
| 7 | <input type="checkbox"/> | 500.000  | 601.885    | 1801937.84 | 0.7837 | P    | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 934.954    | 2805766.41 | 1.1750 | P    | 2.3 |
| 9 | <input type="checkbox"/> |          |            | 316063.24  | 0.1398 | P    | 3.4 |

$$y = 0.0012 * x + 0.0767$$

$$R = 0.9905$$

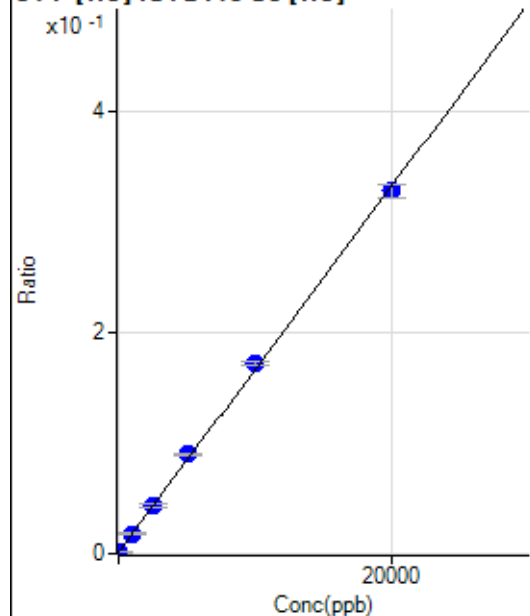
$$DL = 4.593$$

$$BEC = 65.3$$

Weight: &lt;None&gt;

Min Conc: 0

31 P [He] ISTD :45 Sc [He]



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -19.078    | 100.01   | 0.0009 | P    | 43.2 |
| 2 | <input type="checkbox"/> | 0.000     |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 0.000     | 19.078     | 172.23   | 0.0015 | P    | 12.6 |
| 4 | <input type="checkbox"/> | 1000.000  | 1027.015   | 2061.35  | 0.0182 | P    | 8.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2581.553   | 5092.77  | 0.0440 | P    | 8.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5346.384   | 9425.62  | 0.0898 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 10000.000 | 10301.808  | 17991.97 | 0.1719 | P    | 2.3  |
| 8 | <input type="checkbox"/> | 20000.000 | 19750.955  | 34546.34 | 0.3285 | P    | 4.0  |
| 9 | <input type="checkbox"/> |           |            | 166.67   | 0.0016 | P    | 18.4 |

$$y = 1.6573E-005 * x + 0.0012$$

$$R = 0.9997$$

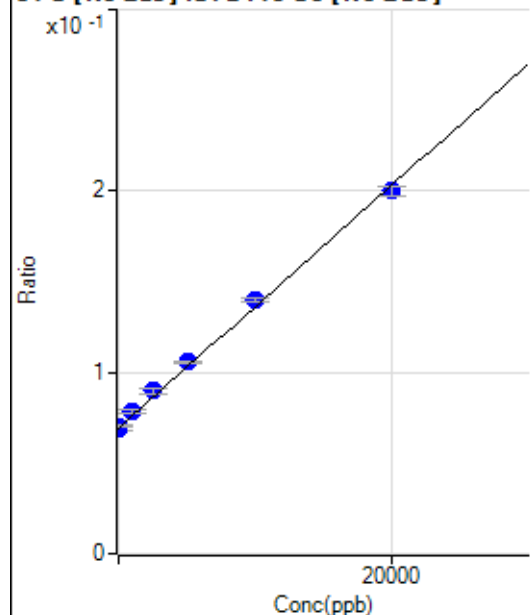
$$DL = 51.55$$

$$BEC = 72.03$$

Weight: &lt;None&gt;

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -104.394   | 172116.41 | 0.0687 | P    | 2.7 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 0.000     | 104.394    | 174132.50 | 0.0701 | P    | 1.4 |
| 4 | <input type="checkbox"/> | 1000.000  | 1347.310   | 193282.91 | 0.0784 | P    | 2.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 3028.184   | 219745.60 | 0.0897 | P    | 3.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 5447.764   | 249742.96 | 0.1059 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 10000.000 | 10565.107  | 322249.30 | 0.1402 | P    | 1.9 |
| 8 | <input type="checkbox"/> | 20000.000 | 19522.117  | 477898.80 | 0.2001 | P    | 2.8 |
| 9 | <input type="checkbox"/> |           |            | 148931.81 | 0.0659 | P    | 2.5 |

$$y = 6.6968\text{E-}006 * x + 0.0694$$

$$R = 0.9989$$

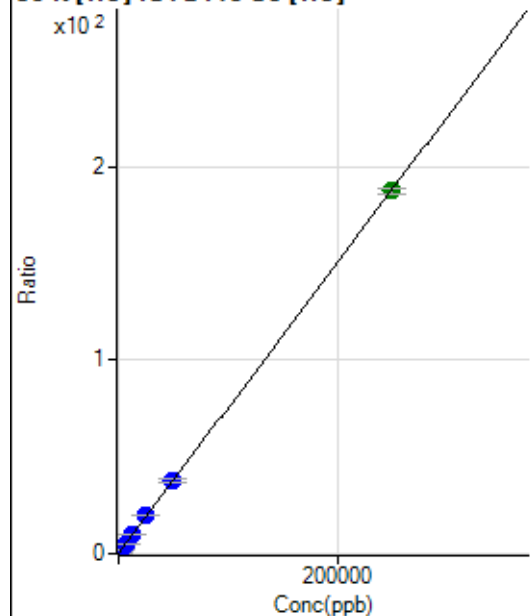
$$DL = 637.3$$

$$BEC = 1.036\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

39 K [He] ISTD:45 Sc [He]



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 16643.14    | 0.1464   | P    | 4.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 480.112    | 57874.83    | 0.5071   | P    | 1.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2595.723   | 237417.30   | 2.0963   | P    | 5.2 |
| 5 | <input type="checkbox"/> | 6250.000  | 6306.098   | 565918.54   | 4.8834   | P    | 3.2 |
| 6 | <input type="checkbox"/> | 12500.000 | 13385.959  | 1070805.21  | 10.2017  | P    | 1.2 |
| 7 | <input type="checkbox"/> | 25000.000 | 26130.055  | 2069560.90  | 19.7748  | P    | 0.9 |
| 8 | <input type="checkbox"/> | 50000.000 | 50641.391  | 4013939.28  | 38.1872  | P    | 5.0 |
| 9 | <input type="checkbox"/> | 250000.00 | 249712.09  | 19742403.05 | 187.7253 | A    | 1.6 |

$$y = 7.5118\text{E-}004 * x + 0.1464$$

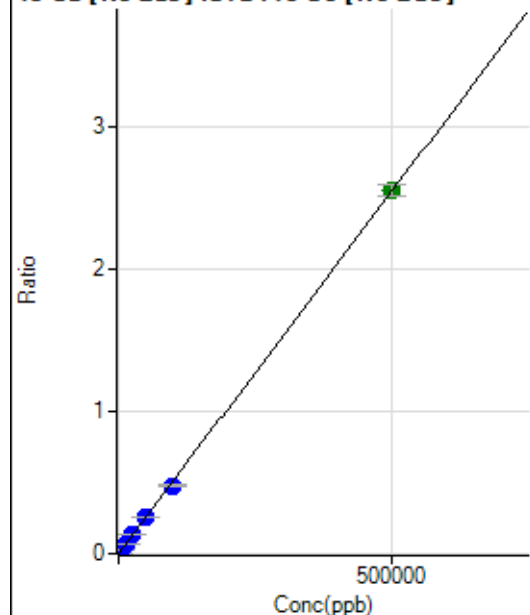
$$R = 1.0000$$

$$DL = 23.15$$

$$BEC = 194.9$$

Weight: &lt;None&gt;

Min Conc: 0

**43 Ca [No Gas] ISTD:45 Sc [No Gas]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 47.23      | 0.0000 | P    | 20.4 |
| 2 | <input type="checkbox"/> | 50.000    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 440.777    | 5604.06    | 0.0023 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 5000.000  | 5023.444   | 62875.99   | 0.0255 | P    | 3.3  |
| 5 | <input type="checkbox"/> | 12500.000 | 12565.483  | 156351.24  | 0.0638 | P    | 2.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 25302.984  | 302991.04  | 0.1285 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 50000.000 | 49865.443  | 581962.85  | 0.2531 | P    | 1.8  |
| 8 | <input type="checkbox"/> | 100000.00 | 93831.544  | 1137305.56 | 0.4763 | P    | 2.6  |
| 9 | <input type="checkbox"/> | 500000.00 | 501230.18  | 5752927.77 | 2.5442 | A    | 3.0  |

$$y = 5.0758\text{E-}006 * x + 1.8851\text{E-}005$$

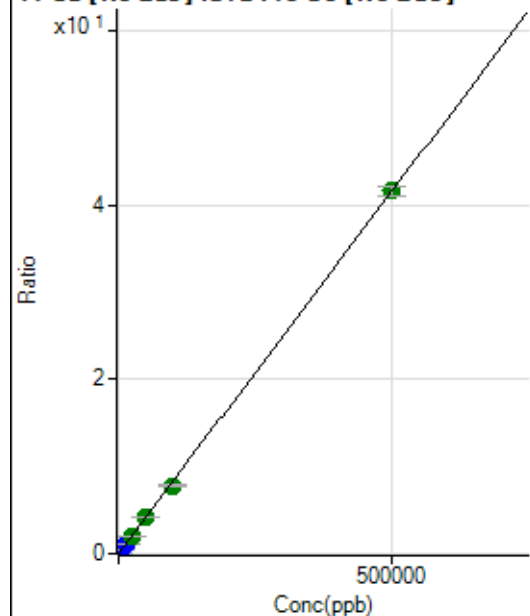
$$R = 0.9999$$

$$DL = 2.277$$

$$BEC = 3.714$$

Weight: &lt;None&gt;

Min Conc: 0

**44 Ca [No Gas] ISTD:45 Sc [No Gas]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3211.59     | 0.0013  | P    | 1.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 438.078    | 93559.01    | 0.0377  | P    | 1.4 |
| 4 | <input type="checkbox"/> | 5000.000  | 4983.505   | 1023064.03  | 0.4152  | P    | 3.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 12563.457  | 2560234.22  | 1.0448  | P    | 3.0 |
| 6 | <input type="checkbox"/> | 25000.000 | 25140.133  | 4928061.53  | 2.0893  | A    | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 49767.243  | 9506464.36  | 4.1348  | A    | 1.7 |
| 8 | <input type="checkbox"/> | 100000.00 | 93637.941  | 18573990.87 | 7.7786  | A    | 2.7 |
| 9 | <input type="checkbox"/> | 500000.00 | 501287.32  | 94158756.27 | 41.6368 | A    | 2.4 |

$$y = 8.3057\text{E-}005 * x + 0.0013$$

$$R = 0.9999$$

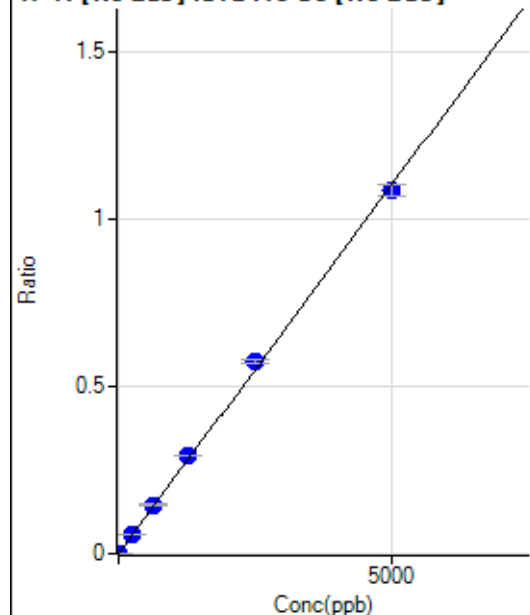
$$DL = 0.8862$$

$$BEC = 15.43$$

Weight: &lt;None&gt;

Min Conc: 0

47 Ti [No Gas] ISTD :45 Sc [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11      | 0.0000 | P        | 75.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.930      | 2730.92    | 0.0011 | P        | 5.9  |
| 4 | <input type="checkbox"/> | 250.000  | 260.999    | 141536.91  | 0.0574 | P        | 3.7  |
| 5 | <input type="checkbox"/> | 625.000  | 656.154    | 353770.52  | 0.1444 | P        | 3.7  |
| 6 | <input type="checkbox"/> | 1250.000 | 1320.963   | 685605.80  | 0.2907 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2610.587   | 1320710.75 | 0.5744 | P        | 1.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4922.522   | 2586165.05 | 1.0831 | P        | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 1508.48    | 0.0007 | P        | 5.1  |

$$y = 2.2003\text{E-}004 * x + 1.4509\text{E-}005$$

$$R = 0.9995$$

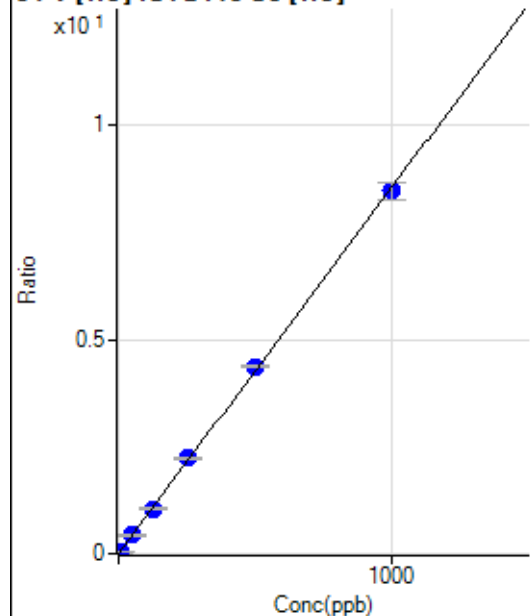
$$DL = 0.1498$$

$$BEC = 0.06594$$

Weight: &lt;None&gt;

Min Conc: 0

51 V [He] ISTD :45 Sc [He]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.45      | 0.0000 | P        | 86.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.725      | 4605.23   | 0.0404 | P        | 3.9  |
| 4 | <input type="checkbox"/> | 50.000   | 51.071     | 49364.64  | 0.4359 | P        | 5.5  |
| 5 | <input type="checkbox"/> | 125.000  | 122.783    | 121444.76 | 1.0479 | P        | 2.7  |
| 6 | <input type="checkbox"/> | 250.000  | 260.979    | 233784.81 | 2.2273 | P        | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 511.592    | 456937.37 | 4.3661 | P        | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.684    | 889645.58 | 8.4634 | P        | 4.9  |
| 9 | <input type="checkbox"/> |          |            | 391.13    | 0.0037 | P        | 19.0 |

$$y = 0.0085 * x + 3.9058\text{E-}005$$

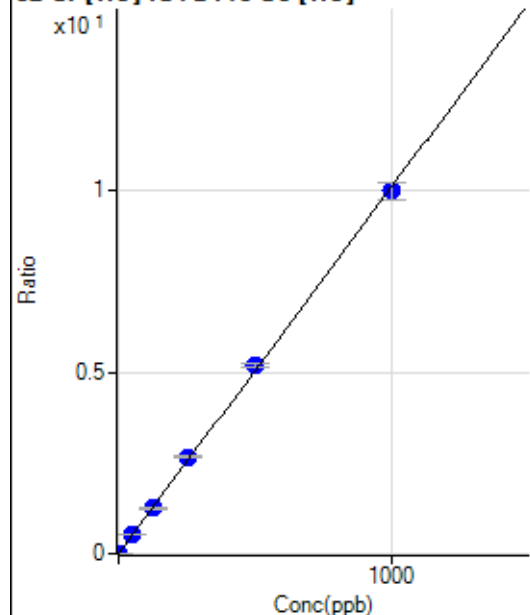
$$R = 0.9998$$

$$DL = 0.01189$$

$$BEC = 0.004577$$

Weight: &lt;None&gt;

Min Conc: 0

**52 Cr [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 122.23     | 0.0011 | P    | 14.1 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.076      | 2512.47    | 0.0220 | P    | 1.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.568     | 59049.94   | 0.5214 | P    | 5.2  |
| 5 | <input type="checkbox"/> | 125.000  | 123.936    | 145042.39  | 1.2515 | P    | 2.7  |
| 6 | <input type="checkbox"/> | 250.000  | 263.568    | 279236.35  | 2.6603 | P    | 2.1  |
| 7 | <input type="checkbox"/> | 500.000  | 513.918    | 542754.55  | 5.1862 | P    | 1.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.703    | 1049708.95 | 9.9866 | P    | 5.1  |
| 9 | <input type="checkbox"/> |          |            | 34435.85   | 0.3274 | P    | 1.7  |

$$y = 0.0101 * x + 0.0011$$

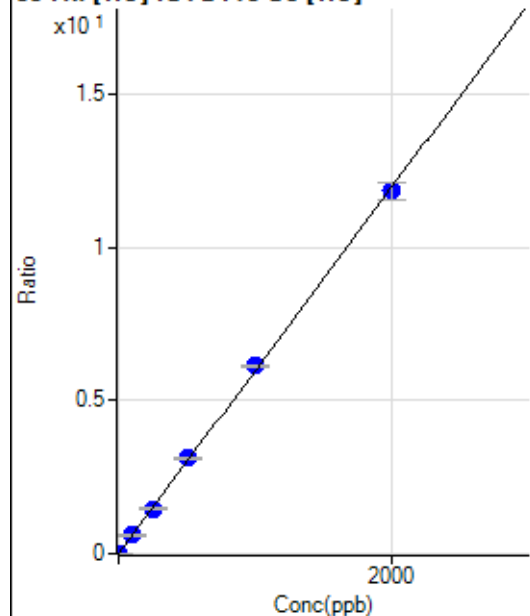
$$R = 0.9997$$

$$DL = 0.04516$$

$$BEC = 0.1065$$

Weight: &lt;None&gt;

Min Conc: 0

**55 Mn [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 51.11      | 0.0005  | P    | 32.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.956      | 703.36     | 0.0062  | P    | 6.4  |
| 4 | <input type="checkbox"/> | 100.000  | 102.675    | 69530.19   | 0.6140  | P    | 5.9  |
| 5 | <input type="checkbox"/> | 250.000  | 246.331    | 170650.65  | 1.4725  | P    | 2.9  |
| 6 | <input type="checkbox"/> | 500.000  | 523.755    | 328568.32  | 3.1303  | P    | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1025.872   | 641619.28  | 6.1309  | P    | 1.5  |
| 8 | <input type="checkbox"/> | 2000.000 | 1981.450   | 1244809.83 | 11.8413 | P    | 4.7  |
| 9 | <input type="checkbox"/> |          |            | 5926.84    | 0.0564  | P    | 1.4  |

$$y = 0.0060 * x + 4.5012E-004$$

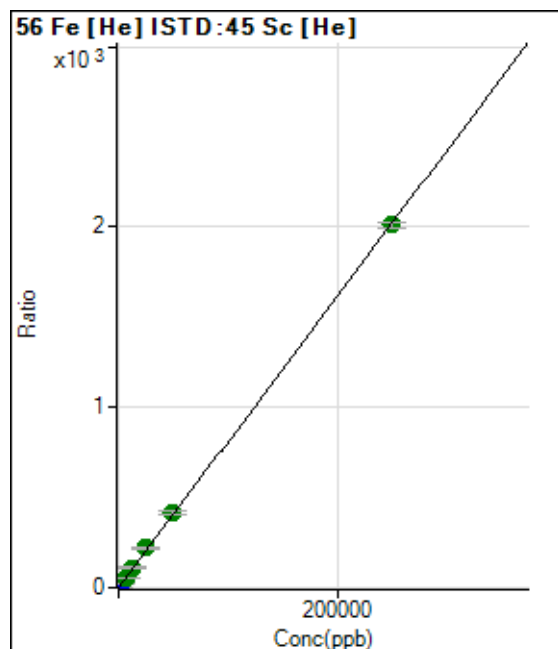
$$R = 0.9998$$

$$DL = 0.07407$$

$$BEC = 0.07532$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2087.25     | 0.0184    | P    | 6.8 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 50.027     | 48162.57    | 0.4221    | P    | 1.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2720.977   | 2488397.22  | 21.9747   | P    | 5.9 |
| 5 | <input type="checkbox"/> | 6250.000  | 6515.928   | 6095753.72  | 52.5972   | A    | 2.7 |
| 6 | <input type="checkbox"/> | 12500.000 | 13860.992  | 11741716.23 | 111.8666  | A    | 1.9 |
| 7 | <input type="checkbox"/> | 25000.000 | 27099.560  | 22887267.64 | 218.6923  | A    | 1.0 |
| 8 | <input type="checkbox"/> | 50000.000 | 51970.622  | 44083538.95 | 419.3839  | A    | 5.0 |
| 9 | <input type="checkbox"/> | 250000.00 | 249319.01  | 211571169.5 | 2,011.843 | A    | 1.9 |

$$y = 0.0081 * x + 0.0184$$

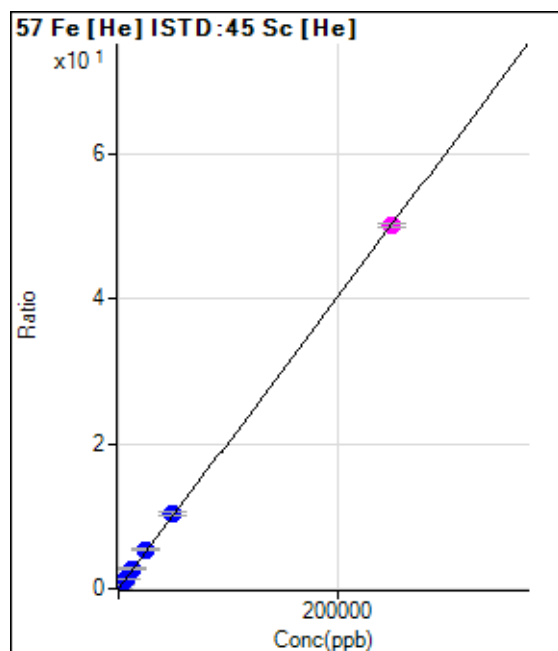
$$R = 0.9999$$

$$DL = 0.4613$$

$$BEC = 2.276$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 283.34     | 0.0025  | P    | 8.1 |
| 2 | <input type="checkbox"/> | 5.000     |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 49.302     | 1413.07    | 0.0124  | P    | 6.7 |
| 4 | <input type="checkbox"/> | 2500.000  | 2736.180   | 62484.81   | 0.5517  | P    | 5.4 |
| 5 | <input type="checkbox"/> | 6250.000  | 6479.375   | 151018.82  | 1.3031  | P    | 3.1 |
| 6 | <input type="checkbox"/> | 12500.000 | 13798.000  | 290976.36  | 2.7722  | P    | 1.6 |
| 7 | <input type="checkbox"/> | 25000.000 | 27021.672  | 567928.51  | 5.4267  | P    | 1.1 |
| 8 | <input type="checkbox"/> | 50000.000 | 51769.410  | 1092784.46 | 10.3944 | P    | 4.4 |
| 9 | <input type="checkbox"/> | 250000.00 | 249370.95  | 5265710.59 | 50.0597 | M    | 1.2 |

$$y = 2.0073E-004 * x + 0.0025$$

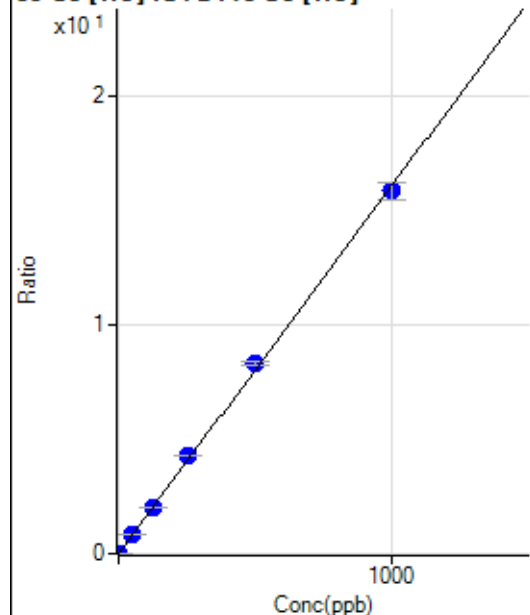
$$R = 0.9999$$

$$DL = 3.019$$

$$BEC = 12.42$$

Weight: <None>

Min Conc: 0

**59 Co [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 82.22      | 0.0007  | P    | 8.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.974      | 1865.71    | 0.0164  | P    | 3.8 |
| 4 | <input type="checkbox"/> | 50.000   | 52.613     | 95718.43   | 0.8451  | P    | 5.1 |
| 5 | <input type="checkbox"/> | 125.000  | 125.746    | 233952.16  | 2.0187  | P    | 2.7 |
| 6 | <input type="checkbox"/> | 250.000  | 266.514    | 449002.44  | 4.2777  | P    | 1.8 |
| 7 | <input type="checkbox"/> | 500.000  | 517.448    | 869119.61  | 8.3047  | P    | 1.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 986.924    | 1664862.29 | 15.8389 | P    | 5.0 |
| 9 | <input type="checkbox"/> |          |            | 20002.74   | 0.1902  | P    | 1.7 |

$$y = 0.0160 * x + 7.2308E-004$$

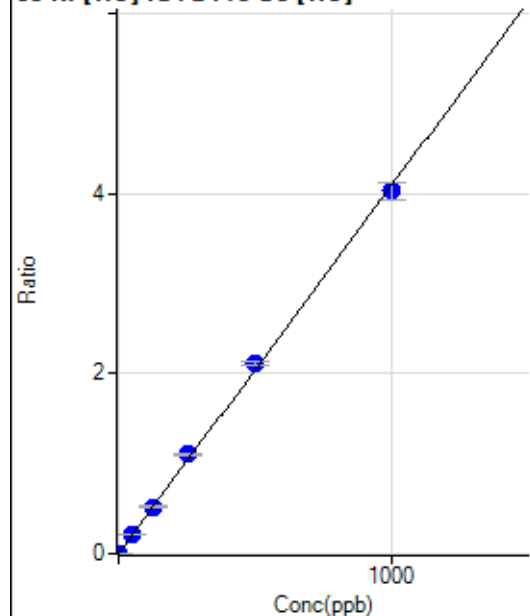
$$R = 0.9996$$

$$DL = 0.01197$$

$$BEC = 0.04506$$

Weight: &lt;None&gt;

Min Conc: 0

**60 Ni [He] ISTD:45 Sc [He]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 114.45    | 0.0010 | P    | 13.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.127      | 641.14    | 0.0056 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 52.945     | 24655.33  | 0.2177 | P    | 4.9  |
| 5 | <input type="checkbox"/> | 125.000  | 127.544    | 60599.09  | 0.5229 | P    | 3.5  |
| 6 | <input type="checkbox"/> | 250.000  | 269.064    | 115679.37 | 1.1021 | P    | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 518.484    | 222150.93 | 2.1228 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 985.527    | 424084.39 | 4.0340 | P    | 4.6  |
| 9 | <input type="checkbox"/> |          |            | 12548.87  | 0.1193 | P    | 3.7  |

$$y = 0.0041 * x + 0.0010$$

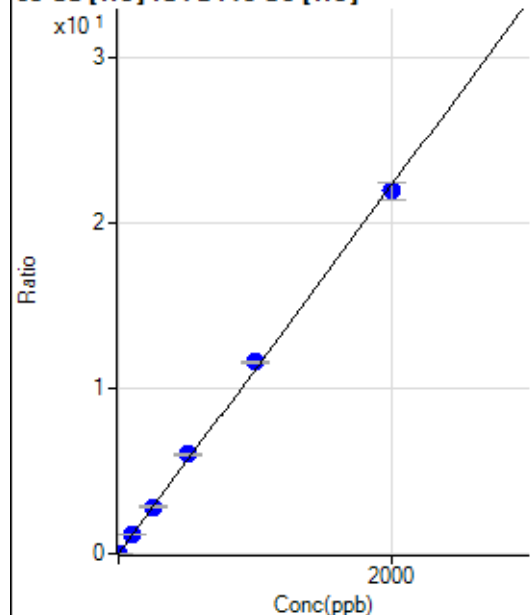
$$R = 0.9995$$

$$DL = 0.09908$$

$$BEC = 0.2459$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>63</sup>Cu [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 328.90     | 0.0029  | P   | 7.9 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.994      | 2860.33    | 0.0251  | P   | 0.6 |
| 4 | <input type="checkbox"/> | 100.000  | 106.211    | 134055.47  | 1.1836  | P   | 5.1 |
| 5 | <input type="checkbox"/> | 250.000  | 255.395    | 329349.57  | 2.8420  | P   | 3.1 |
| 6 | <input type="checkbox"/> | 500.000  | 537.972    | 628018.67  | 5.9833  | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1039.403   | 1209535.43 | 11.5574 | P   | 1.1 |
| 8 | <input type="checkbox"/> | 2000.000 | 1969.820   | 2302248.32 | 21.9004 | P   | 4.7 |
| 9 | <input type="checkbox"/> |          |            | 4839.77    | 0.0460  | P   | 3.9 |

$$y = 0.0111 * x + 0.0029$$

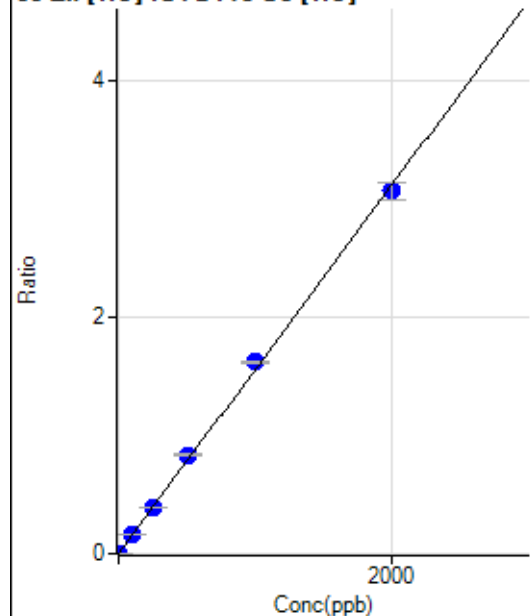
$$R = 0.9995$$

$$DL = 0.06179$$

$$BEC = 0.2604$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>66</sup>Zn [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.01    | 0.0009 | P   | 15.0 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.135      | 480.02    | 0.0042 | P   | 4.7  |
| 4 | <input type="checkbox"/> | 100.000  | 104.662    | 18570.88  | 0.1641 | P   | 7.6  |
| 5 | <input type="checkbox"/> | 250.000  | 251.368    | 45523.11  | 0.3928 | P   | 3.0  |
| 6 | <input type="checkbox"/> | 500.000  | 536.387    | 87877.97  | 0.8372 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1039.463   | 169711.46 | 1.6216 | P   | 1.2  |
| 8 | <input type="checkbox"/> | 2000.000 | 1970.767   | 323122.22 | 3.0738 | P   | 4.7  |
| 9 | <input type="checkbox"/> |          |            | 2021.29   | 0.0192 | P   | 5.4  |

$$y = 0.0016 * x + 8.7949E-004$$

$$R = 0.9995$$

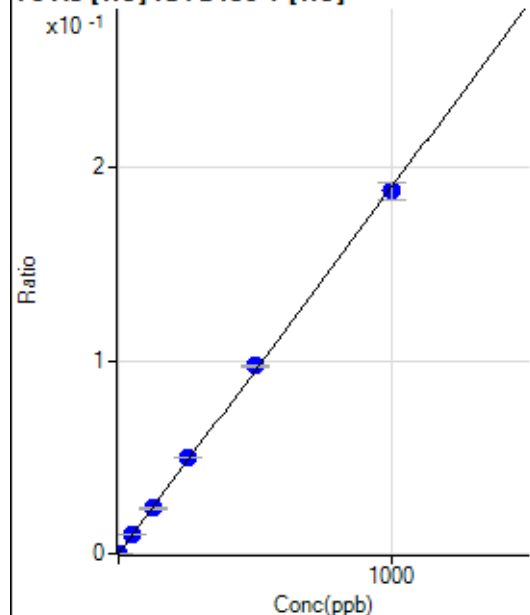
$$DL = 0.2546$$

$$BEC = 0.5641$$

Weight: &lt;None&gt;

Min Conc: 0

75 As [He] ISTD:89 Y [He]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.09      | 0.0000 | P   | 70.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.923      | 125.93    | 0.0002 | P   | 6.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.823     | 6830.67   | 0.0098 | P   | 6.8  |
| 5 | <input type="checkbox"/> | 125.000  | 125.253    | 16888.27  | 0.0238 | P   | 3.4  |
| 6 | <input type="checkbox"/> | 250.000  | 262.701    | 32338.99  | 0.0499 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 512.591    | 62748.01  | 0.0974 | P   | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.407    | 120620.09 | 0.1881 | P   | 5.1  |
| 9 | <input type="checkbox"/> |          |            | 206.17    | 0.0003 | P   | 15.7 |

$$y = 1.8993\text{E-}004 * x + 4.4377\text{E-}006$$

$$R = 0.9998$$

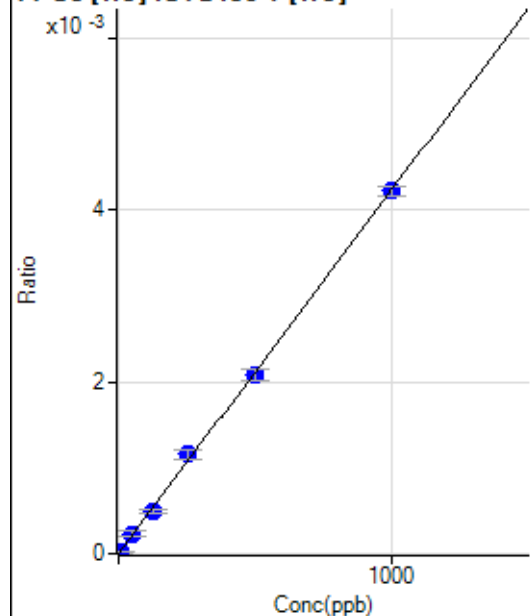
$$DL = 0.04909$$

$$BEC = 0.02336$$

Weight: &lt;None&gt;

Min Conc: 0

77 Se [He] ISTD:89 Y [He]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11    | 0.0000 | P   | 173. |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.504      | 14.45   | 0.0000 | P   | 48.0 |
| 4 | <input type="checkbox"/> | 50.000   | 55.164     | 162.23  | 0.0002 | P   | 19.1 |
| 5 | <input type="checkbox"/> | 125.000  | 116.079    | 348.90  | 0.0005 | P   | 10.5 |
| 6 | <input type="checkbox"/> | 250.000  | 274.257    | 752.26  | 0.0012 | P   | 9.3  |
| 7 | <input type="checkbox"/> | 500.000  | 493.800    | 1345.64 | 0.0021 | P   | 6.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.895    | 2708.08 | 0.0042 | P   | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 2.22    | 0.0000 | P   | 86.6 |

$$y = 4.2261\text{E-}006 * x + 1.6024\text{E-}006$$

$$R = 0.9996$$

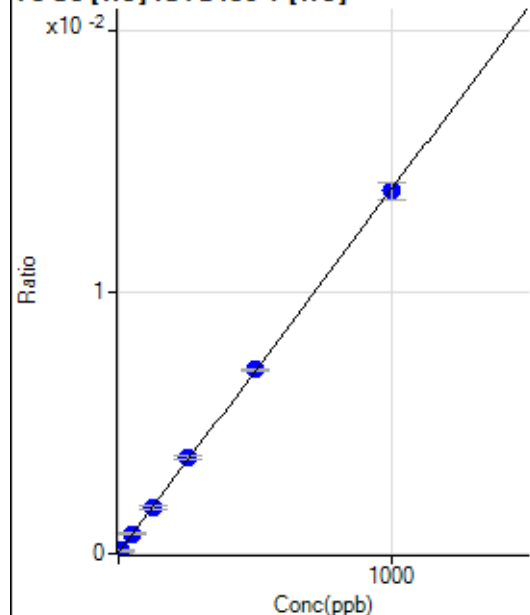
$$DL = 1.97$$

$$BEC = 0.3792$$

Weight: &lt;None&gt;

Min Conc: 0

78 Se [He] ISTD:89 Y [He]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 29.01   | 0.0000 | P    | 28.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.500      | 82.72   | 0.0001 | P    | 19.5 |
| 4 | <input type="checkbox"/> | 50.000   | 50.939     | 519.77  | 0.0007 | P    | 13.0 |
| 5 | <input type="checkbox"/> | 125.000  | 122.433    | 1234.63 | 0.0017 | P    | 6.8  |
| 6 | <input type="checkbox"/> | 250.000  | 262.754    | 2389.73 | 0.0037 | P    | 3.1  |
| 7 | <input type="checkbox"/> | 500.000  | 502.862    | 4523.58 | 0.0070 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.652    | 8886.12 | 0.0139 | P    | 4.5  |
| 9 | <input type="checkbox"/> |          |            | 33.95   | 0.0001 | P    | 22.0 |

$$y = 1.3875E-005 * x + 4.1570E-005$$

$$R = 0.9999$$

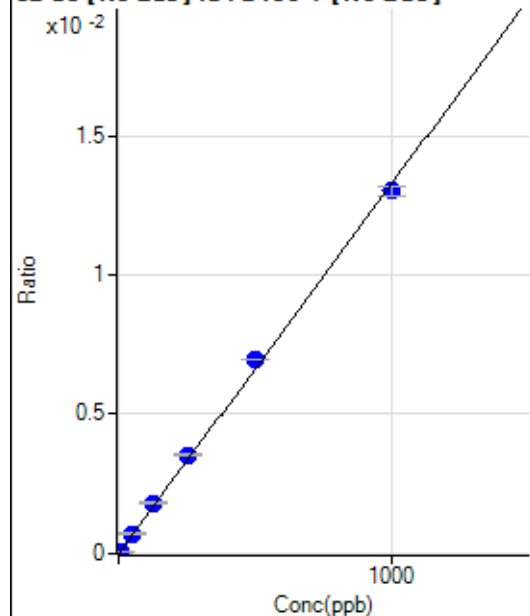
$$DL = 2.569$$

$$BEC = 2.996$$

Weight: &lt;None&gt;

Min Conc: 0

82 Se [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -8.27    | 0.0000 | P    | -18. |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.516      | 308.65   | 0.0001 | P    | 2.7  |
| 4 | <input type="checkbox"/> | 50.000   | 54.184     | 3078.12  | 0.0007 | P    | 4.7  |
| 5 | <input type="checkbox"/> | 125.000  | 136.068    | 7670.39  | 0.0018 | P    | 4.0  |
| 6 | <input type="checkbox"/> | 250.000  | 266.232    | 14623.74 | 0.0035 | P    | 2.1  |
| 7 | <input type="checkbox"/> | 500.000  | 525.638    | 28121.97 | 0.0070 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 981.528    | 54350.65 | 0.0130 | P    | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 66.21    | 0.0000 | P    | 34.4 |

$$y = 1.3262E-005 * x - 1.8772E-006$$

$$R = 0.9993$$

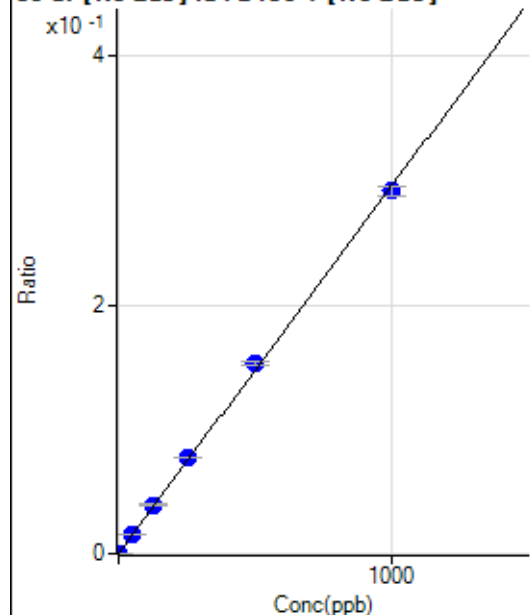
$$DL = 0.0795$$

$$BEC = -0.1415$$

Weight: &lt;None&gt;

Min Conc: 0

86 Sr [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 283.35     | 0.0001 | P    | 2.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.981      | 1533.47    | 0.0004 | P    | 8.4 |
| 4 | <input type="checkbox"/> | 50.000   | 52.504     | 66937.37   | 0.0156 | P    | 2.9 |
| 5 | <input type="checkbox"/> | 125.000  | 131.301    | 165413.04  | 0.0389 | P    | 3.6 |
| 6 | <input type="checkbox"/> | 250.000  | 261.100    | 320032.32  | 0.0772 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 517.728    | 617678.53  | 0.1531 | P    | 2.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 987.448    | 1219021.07 | 0.2919 | P    | 2.8 |
| 9 | <input type="checkbox"/> |          |            | 6190.49    | 0.0016 | P    | 3.2 |

$$y = 2.9556\text{E-}004 * x + 6.4387\text{E-}005$$

$$R = 0.9997$$

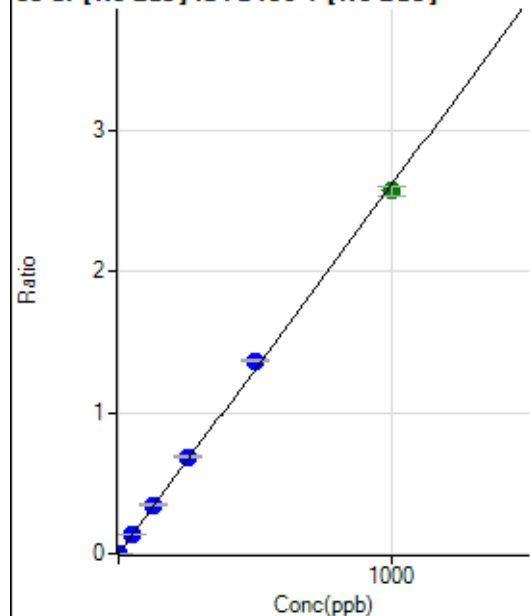
$$DL = 0.01728$$

$$BEC = 0.2178$$

Weight: &lt;None&gt;

Min Conc: 0

88 Sr [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.12       | 0.0000 | P    | 68.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.004      | 11410.54    | 0.0026 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 52.171     | 585353.65   | 0.1363 | P    | 3.3  |
| 5 | <input type="checkbox"/> | 125.000  | 131.476    | 1461379.36  | 0.3434 | P    | 3.3  |
| 6 | <input type="checkbox"/> | 250.000  | 262.956    | 2845831.58  | 0.6868 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 524.037    | 5522780.68  | 1.3687 | P    | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 983.824    | 10730135.83 | 2.5695 | A    | 2.8  |
| 9 | <input type="checkbox"/> |          |            | 54245.30    | 0.0138 | P    | 2.7  |

$$y = 0.0026 * x + 1.3808\text{E-}005$$

$$R = 0.9995$$

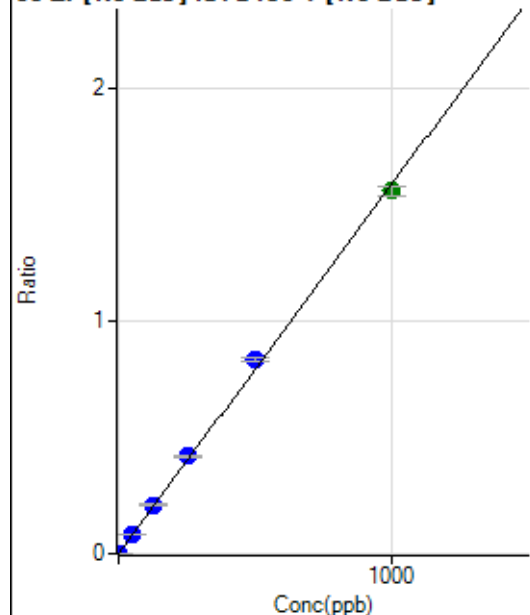
$$DL = 0.01093$$

$$BEC = 0.005287$$

Weight: &lt;None&gt;

Min Conc: 0

90 Zr [No Gas] ISTD: 89 Y [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 411.13     | 0.0001 | P    | 10.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.982      | 7165.96    | 0.0017 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 50.000   | 51.957     | 355182.10  | 0.0827 | P    | 2.7  |
| 5 | <input type="checkbox"/> | 125.000  | 131.423    | 889390.49  | 0.2090 | P    | 3.3  |
| 6 | <input type="checkbox"/> | 250.000  | 263.235    | 1734188.54 | 0.4185 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 525.729    | 3372230.72 | 0.8357 | P    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 982.926    | 6524655.22 | 1.5625 | A    | 2.9  |
| 9 | <input type="checkbox"/> |          |            | 1627.93    | 0.0004 | P    | 6.7  |

$$y = 0.0016 * x + 9.3478E-005$$

$$R = 0.9994$$

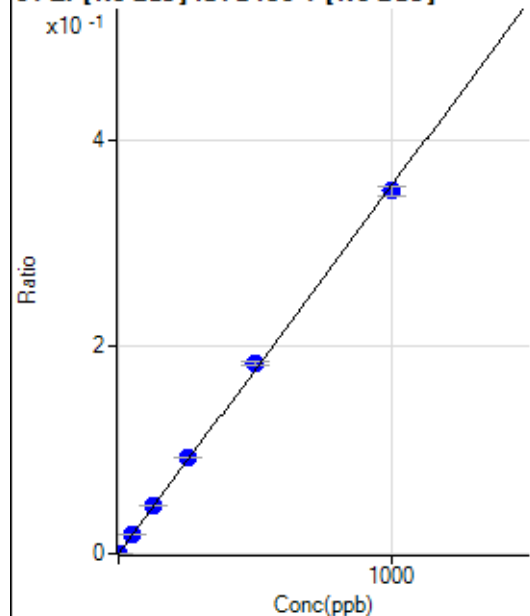
$$DL = 0.01919$$

$$BEC = 0.05881$$

Weight: &lt;None&gt;

Min Conc: 0

91 Zr [No Gas] ISTD: 89 Y [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 80.56      | 0.0000 | P    | 16.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.951      | 1541.82    | 0.0004 | P    | 4.7  |
| 4 | <input type="checkbox"/> | 50.000   | 51.970     | 79339.59   | 0.0185 | P    | 4.1  |
| 5 | <input type="checkbox"/> | 125.000  | 131.122    | 198244.69  | 0.0466 | P    | 2.8  |
| 6 | <input type="checkbox"/> | 250.000  | 262.151    | 385804.10  | 0.0931 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 519.376    | 744226.78  | 0.1844 | P    | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.411    | 1462730.21 | 0.3503 | P    | 2.9  |
| 9 | <input type="checkbox"/> |          |            | 372.24     | 0.0001 | P    | 10.0 |

$$y = 3.5509E-004 * x + 1.8318E-005$$

$$R = 0.9996$$

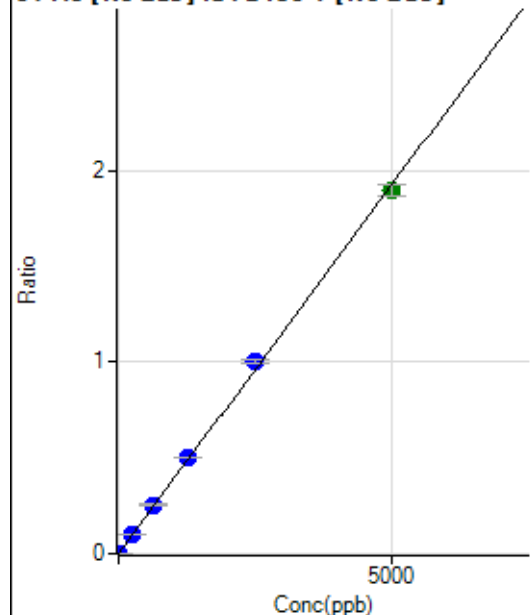
$$DL = 0.02545$$

$$BEC = 0.05159$$

Weight: &lt;None&gt;

Min Conc: 0

94 Mo [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 127.78     | 0.0000 | P    | 21.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.769      | 8060.97    | 0.0019 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 250.000  | 259.642    | 428736.02  | 0.0998 | P    | 2.8  |
| 5 | <input type="checkbox"/> | 625.000  | 657.835    | 1075926.95 | 0.2528 | P    | 3.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1314.091   | 2092586.59 | 0.5050 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 2500.000 | 2614.195   | 4053661.07 | 1.0046 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4922.293   | 7898639.41 | 1.8915 | A    | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 8664.09    | 0.0022 | P    | 0.3  |

$$y = 3.8427\text{E-}004 * x + 2.9089\text{E-}005$$

$$R = 0.9995$$

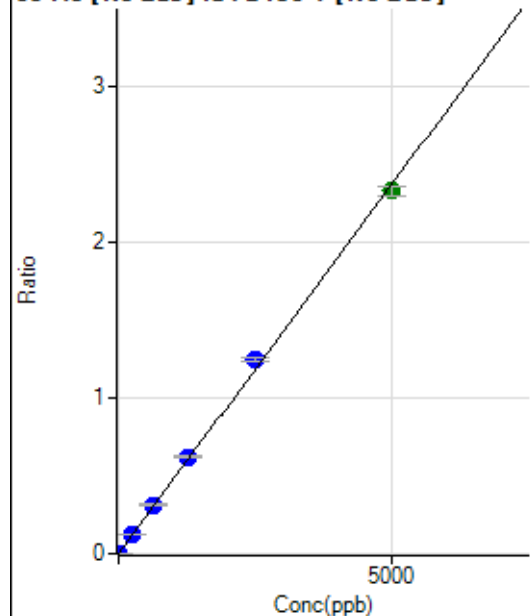
$$DL = 0.04797$$

$$BEC = 0.0757$$

Weight: &lt;None&gt;

Min Conc: 0

95 Mo [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11      | 0.0000 | P    | 86.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.773      | 9812.06    | 0.0023 | P    | 4.0  |
| 4 | <input type="checkbox"/> | 250.000  | 260.792    | 531371.42  | 0.1237 | P    | 3.8  |
| 5 | <input type="checkbox"/> | 625.000  | 658.292    | 1328959.43 | 0.3123 | P    | 3.2  |
| 6 | <input type="checkbox"/> | 1250.000 | 1315.173   | 2585191.53 | 0.6239 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2624.246   | 5023072.86 | 1.2449 | P    | 1.7  |
| 8 | <input type="checkbox"/> | 5000.000 | 4916.883   | 9739952.82 | 2.3324 | A    | 2.9  |
| 9 | <input type="checkbox"/> |          |            | 13718.27   | 0.0035 | P    | 1.5  |

$$y = 4.7437\text{E-}004 * x + 2.5082\text{E-}006$$

$$R = 0.9994$$

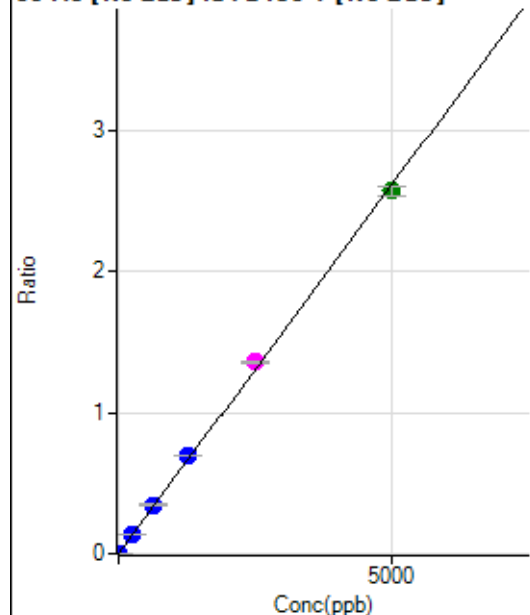
$$DL = 0.01374$$

$$BEC = 0.005288$$

Weight: &lt;None&gt;

Min Conc: 0

96 Mo [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78       | 0.0000 | P    | 9.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.840      | 10988.01    | 0.0025 | P    | 2.7 |
| 4 | <input type="checkbox"/> | 250.000  | 260.447    | 583870.15   | 0.1359 | P    | 3.7 |
| 5 | <input type="checkbox"/> | 625.000  | 660.081    | 1466146.58  | 0.3445 | P    | 3.1 |
| 6 | <input type="checkbox"/> | 1250.000 | 1323.779   | 2862850.22  | 0.6909 | P    | 0.8 |
| 7 | <input type="checkbox"/> | 2500.000 | 2606.999   | 5490255.94  | 1.3606 | M    | 1.1 |
| 8 | <input type="checkbox"/> | 5000.000 | 4923.148   | 10729224.81 | 2.5693 | A    | 2.9 |
| 9 | <input type="checkbox"/> |          |            | 17764.49    | 0.0045 | P    | 2.7 |

$$y = 5.2188\text{E-}004 * x + 1.1994\text{E-}005$$

$$R = 0.9995$$

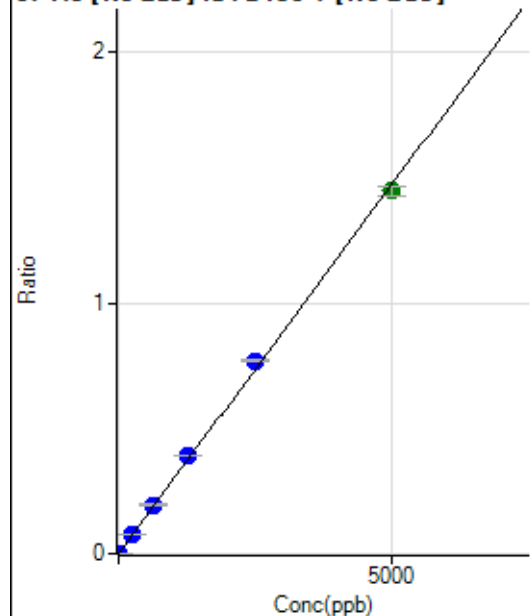
$$DL = 0.006272$$

$$BEC = 0.02298$$

Weight: &lt;None&gt;

Min Conc: 0

97 Mo [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11      | 0.0000 | P    | 114. |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.888      | 6240.50    | 0.0014 | P    | 4.3  |
| 4 | <input type="checkbox"/> | 250.000  | 262.924    | 332318.48  | 0.0774 | P    | 3.9  |
| 5 | <input type="checkbox"/> | 625.000  | 662.446    | 829575.90  | 0.1949 | P    | 3.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1318.663   | 1607862.03 | 0.3880 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 2500.000 | 2616.889   | 3107209.66 | 0.7700 | P    | 1.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 4919.063   | 6044641.46 | 1.4475 | A    | 2.8  |
| 9 | <input type="checkbox"/> |          |            | 8608.46    | 0.0022 | P    | 5.5  |

$$y = 2.9426\text{E-}004 * x + 2.5003\text{E-}006$$

$$R = 0.9995$$

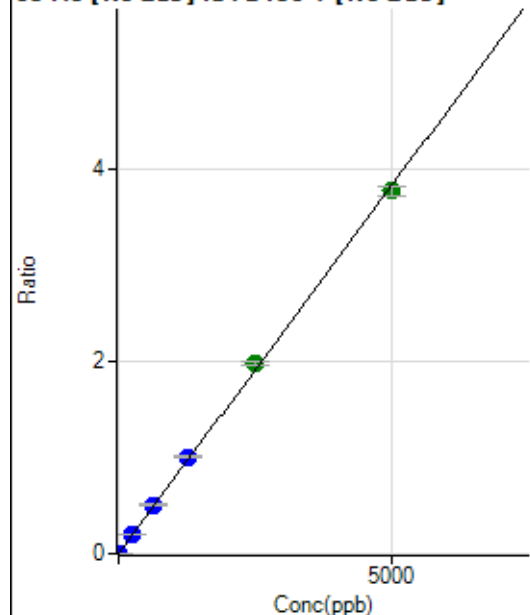
$$DL = 0.0291$$

$$BEC = 0.008497$$

Weight: &lt;None&gt;

Min Conc: 0

98 Mo [No Gas] ISTD:89 Y [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89       | 0.0000 | P    | 125. |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.815      | 15948.41    | 0.0037 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 250.000  | 260.332    | 854776.79   | 0.1990 | P    | 3.2  |
| 5 | <input type="checkbox"/> | 625.000  | 659.431    | 2145130.47  | 0.5040 | P    | 3.1  |
| 6 | <input type="checkbox"/> | 1250.000 | 1319.458   | 4179180.52  | 1.0085 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2591.571   | 7992862.07  | 1.9809 | A    | 2.0  |
| 8 | <input type="checkbox"/> | 5000.000 | 4932.030   | 15742673.27 | 3.7698 | A    | 2.8  |
| 9 | <input type="checkbox"/> |          |            | 22087.26    | 0.0056 | P    | 4.0  |

$$y = 7.6435\text{E-}004 * x + 3.1827\text{E-}006$$

$$R = 0.9996$$

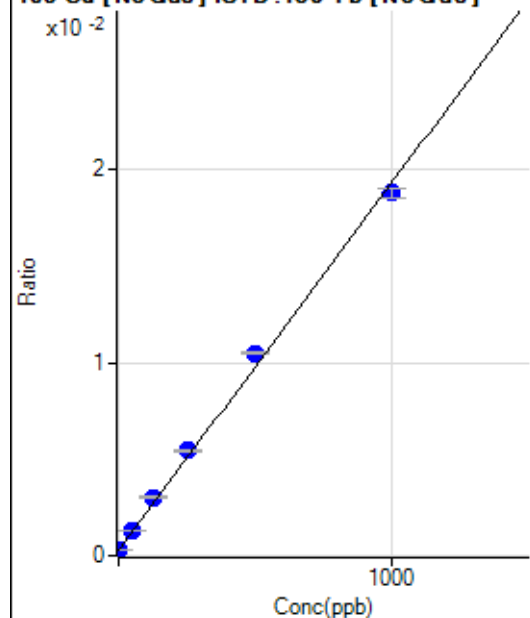
$$DL = 0.01572$$

$$BEC = 0.004164$$

Weight: &lt;None&gt;

Min Conc: 0

106 Cd [No Gas] ISTD:159 Tb [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1489.03  | 0.0003 | P    | 9.0  |
| 2 | <input type="checkbox"/> | 0.100    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.054      | 1450.14  | 0.0003 | P    | 10.8 |
| 4 | <input type="checkbox"/> | 50.000   | 53.283     | 6751.87  | 0.0013 | P    | 5.3  |
| 5 | <input type="checkbox"/> | 125.000  | 144.395    | 15756.60 | 0.0030 | P    | 4.9  |
| 6 | <input type="checkbox"/> | 250.000  | 271.414    | 27914.41 | 0.0054 | P    | 2.8  |
| 7 | <input type="checkbox"/> | 500.000  | 536.965    | 52897.20 | 0.0105 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 973.576    | 98177.61 | 0.0188 | P    | 2.5  |
| 9 | <input type="checkbox"/> |          |            | 1372.35  | 0.0003 | P    | 7.6  |

$$y = 1.9000\text{E-}005 * x + 2.7629\text{E-}004$$

$$R = 0.9986$$

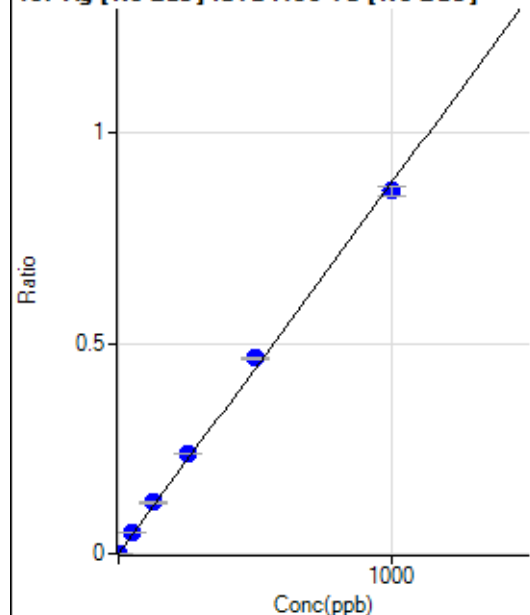
$$DL = 3.947$$

$$BEC = 14.54$$

Weight: &lt;None&gt;

Min Conc: 0

107 Ag [No Gas] ISTD:159 Tb [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11      | 0.0000 | P    | 33.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.041      | 4828.81    | 0.0009 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 55.645     | 256776.12  | 0.0490 | P    | 2.8  |
| 5 | <input type="checkbox"/> | 125.000  | 138.984    | 638654.67  | 0.1224 | P    | 4.2  |
| 6 | <input type="checkbox"/> | 250.000  | 271.075    | 1226547.21 | 0.2387 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 527.299    | 2343791.16 | 0.4643 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 979.051    | 4508104.87 | 0.8621 | P    | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 605.60     | 0.0001 | P    | 14.1 |

$$y = 8.8057\text{E-}004 * x + 6.6761\text{E-}006$$

$$R = 0.9991$$

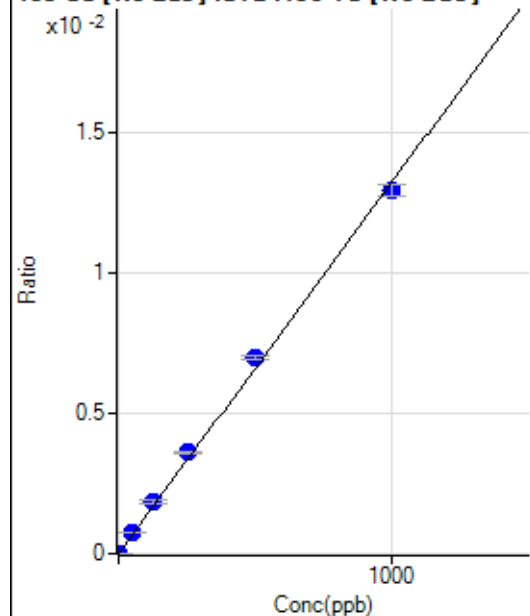
$$DL = 0.007621$$

$$BEC = 0.007582$$

Weight: &lt;None&gt;

Min Conc: 0

108 Cd [No Gas] ISTD:159 Tb [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.78     | 0.0000 | P    | 86.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.291      | 91.67    | 0.0000 | P    | 16.4 |
| 4 | <input type="checkbox"/> | 50.000   | 55.576     | 3842.27  | 0.0007 | P    | 2.2  |
| 5 | <input type="checkbox"/> | 125.000  | 141.006    | 9697.95  | 0.0019 | P    | 6.3  |
| 6 | <input type="checkbox"/> | 250.000  | 273.160    | 18509.53 | 0.0036 | P    | 2.7  |
| 7 | <input type="checkbox"/> | 500.000  | 527.703    | 35121.43 | 0.0070 | P    | 2.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 978.079    | 67428.92 | 0.0129 | P    | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 13.89    | 0.0000 | P    | 15.9 |

$$y = 1.3184\text{E-}005 * x + 5.1725\text{E-}007$$

$$R = 0.9991$$

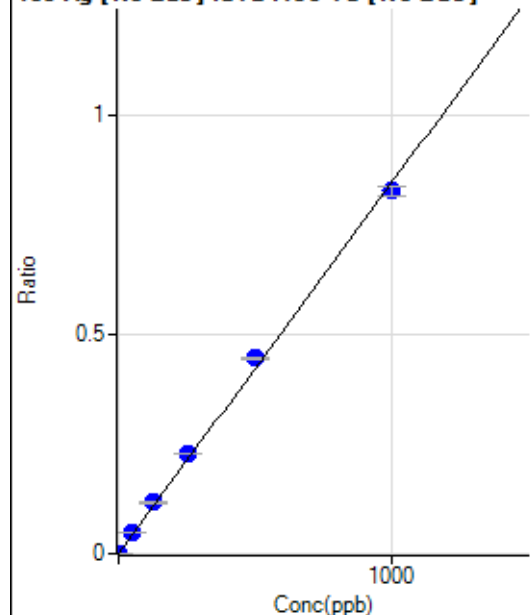
$$DL = 0.102$$

$$BEC = 0.03923$$

Weight: &lt;None&gt;

Min Conc: 0

109 Ag [No Gas] ISTD:159 Tb [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33       | 0.0000 | P    | 101. |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.092      | 4831.58    | 0.0009 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 55.896     | 247517.44  | 0.0472 | P    | 3.1  |
| 5 | <input type="checkbox"/> | 125.000  | 138.896    | 612627.14  | 0.1174 | P    | 3.6  |
| 6 | <input type="checkbox"/> | 250.000  | 271.186    | 1177651.36 | 0.2292 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 527.630    | 2250859.43 | 0.4459 | P    | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 978.857    | 4325804.65 | 0.8273 | P    | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 527.81     | 0.0001 | P    | 10.6 |

$$y = 8.4512\text{E-}004 * x + 1.5604\text{E-}006$$

$$R = 0.9991$$

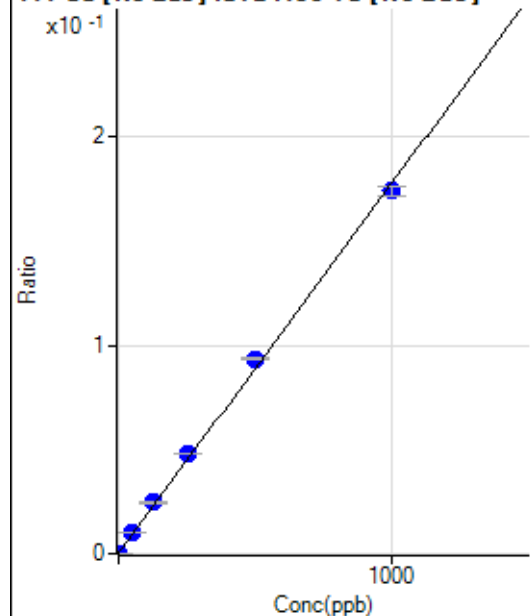
$$DL = 0.005612$$

$$BEC = 0.001846$$

Weight: &lt;None&gt;

Min Conc: 0

111 Cd [No Gas] ISTD:159 Tb [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1040.38   | 0.0002 | P    | 8.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.946      | 1887.09   | 0.0004 | P    | 5.9 |
| 4 | <input type="checkbox"/> | 50.000   | 54.869     | 52015.31  | 0.0099 | P    | 3.3 |
| 5 | <input type="checkbox"/> | 125.000  | 138.515    | 129280.58 | 0.0248 | P    | 3.1 |
| 6 | <input type="checkbox"/> | 250.000  | 269.376    | 246562.34 | 0.0480 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 525.714    | 471775.25 | 0.0935 | P    | 1.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 980.366    | 910479.48 | 0.1741 | P    | 2.9 |
| 9 | <input type="checkbox"/> |          |            | 1170.38   | 0.0002 | P    | 4.7 |

$$y = 1.7742\text{E-}004 * x + 1.9304\text{E-}004$$

$$R = 0.9992$$

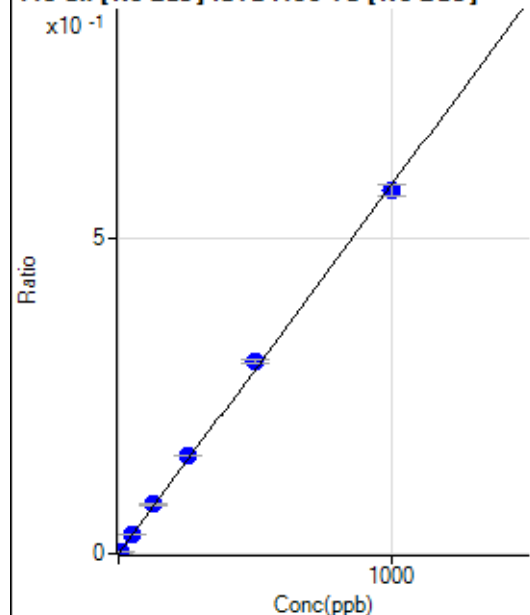
$$DL = 0.2914$$

$$BEC = 1.088$$

Weight: &lt;None&gt;

Min Conc: 0

118 Sn [No Gas] ISTD : 159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 661.16     | 0.0001 | P        | 14.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.265      | 16752.32   | 0.0032 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 50.000   | 53.413     | 164446.74  | 0.0314 | P        | 3.2  |
| 5 | <input type="checkbox"/> | 125.000  | 133.713    | 409170.70  | 0.0784 | P        | 3.1  |
| 6 | <input type="checkbox"/> | 250.000  | 266.173    | 801151.39  | 0.1559 | P        | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 520.403    | 1538114.60 | 0.3047 | P        | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 984.494    | 3013691.11 | 0.5764 | P        | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 6946.48    | 0.0014 | P        | 3.9  |

$$y = 5.8532\text{E-}004 * x + 1.2260\text{E-}004$$

$$R = 0.9995$$

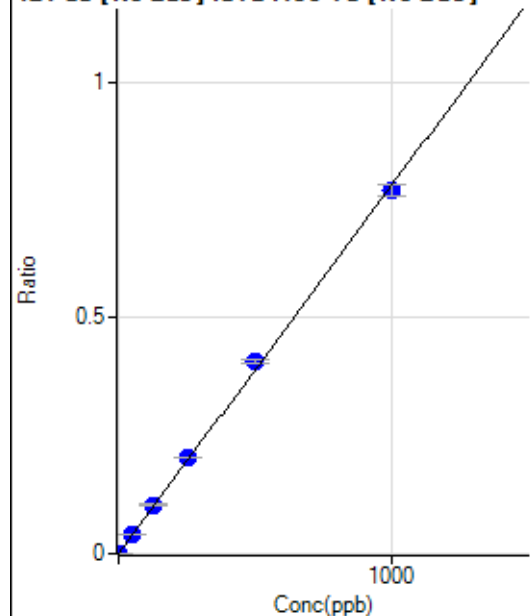
$$DL = 0.09259$$

$$BEC = 0.2095$$

Weight: &lt;None&gt;

Min Conc: 0

121 Sb [No Gas] ISTD : 159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P        | 17.0 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.986      | 8136.02    | 0.0016 | P        | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 52.487     | 214774.38  | 0.0410 | P        | 3.2  |
| 5 | <input type="checkbox"/> | 125.000  | 132.385    | 539552.79  | 0.1034 | P        | 3.6  |
| 6 | <input type="checkbox"/> | 250.000  | 262.261    | 1052344.16 | 0.2048 | P        | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 520.282    | 2050769.73 | 0.4063 | P        | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 985.746    | 4024904.25 | 0.7698 | P        | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 6979.84    | 0.0014 | P        | 4.9  |

$$y = 7.8089\text{E-}004 * x + 5.1552\text{E-}006$$

$$R = 0.9996$$

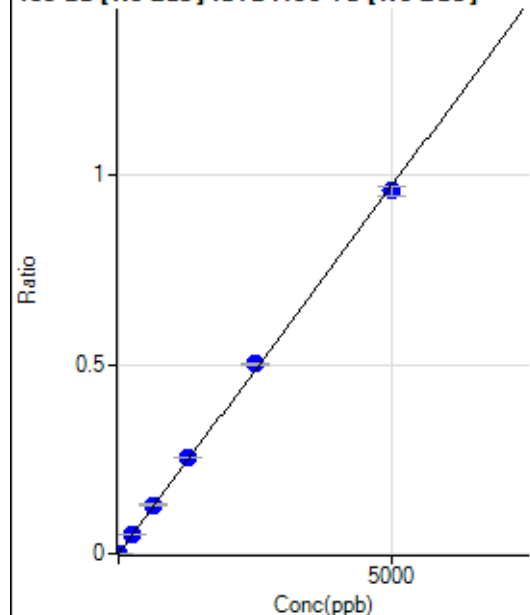
$$DL = 0.003369$$

$$BEC = 0.006602$$

Weight: &lt;None&gt;

Min Conc: 0

135 Ba [No Gas] ISTD :159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P        | 1.9 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.810      | 9990.11    | 0.0019 | P        | 4.6 |
| 4 | <input type="checkbox"/> | 250.000  | 265.743    | 270592.26  | 0.0516 | P        | 3.5 |
| 5 | <input type="checkbox"/> | 625.000  | 665.387    | 674793.99  | 0.1293 | P        | 4.0 |
| 6 | <input type="checkbox"/> | 1250.000 | 1314.045   | 1312158.49 | 0.2554 | P        | 0.5 |
| 7 | <input type="checkbox"/> | 2500.000 | 2582.804   | 2533568.89 | 0.5019 | P        | 1.6 |
| 8 | <input type="checkbox"/> | 5000.000 | 4936.752   | 5016574.98 | 0.9594 | P        | 2.8 |
| 9 | <input type="checkbox"/> |          |            | 836.18     | 0.0002 | P        | 4.5 |

$$y = 1.9433\text{E-}004 * x + 4.6418\text{E-}006$$

$$R = 0.9997$$

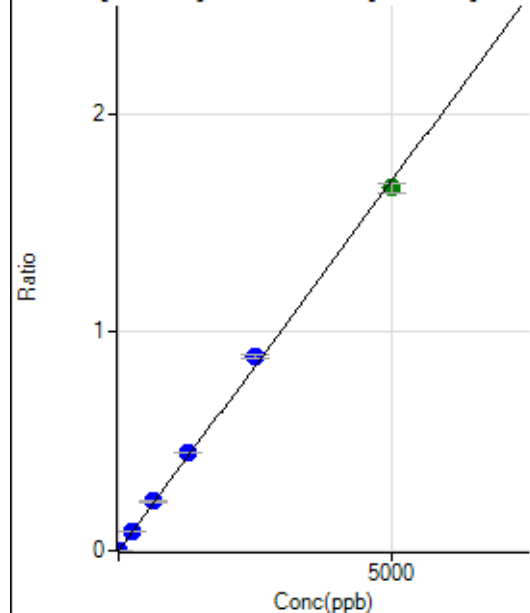
$$DL = 0.001397$$

$$BEC = 0.02389$$

Weight: &lt;None&gt;

Min Conc: 0

137 Ba [No Gas] ISTD :159 Tb [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P        | 1.9 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.502      | 16833.00   | 0.0032 | P        | 4.9 |
| 4 | <input type="checkbox"/> | 250.000  | 266.676    | 472700.16  | 0.0902 | P        | 3.2 |
| 5 | <input type="checkbox"/> | 625.000  | 671.690    | 1186130.24 | 0.2272 | P        | 3.0 |
| 6 | <input type="checkbox"/> | 1250.000 | 1328.030   | 2308494.41 | 0.4493 | P        | 0.7 |
| 7 | <input type="checkbox"/> | 2500.000 | 2630.031   | 4491040.94 | 0.8897 | P        | 1.7 |
| 8 | <input type="checkbox"/> | 5000.000 | 4908.808   | 8683531.53 | 1.6606 | A        | 2.7 |
| 9 | <input type="checkbox"/> |          |            | 1514.05    | 0.0003 | P        | 4.2 |

$$y = 3.3829\text{E-}004 * x + 4.6418\text{E-}006$$

$$R = 0.9993$$

$$DL = 0.0008024$$

$$BEC = 0.01372$$

Weight: &lt;None&gt;

Min Conc: 0

**150 Nd [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 4 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 13.3 |
| 5 | <input type="checkbox"/> |       |            | 57.78  |       | P        | 46.6 |
| 6 | <input type="checkbox"/> |       |            | 102.23 |       | P        | 10.0 |
| 7 | <input type="checkbox"/> |       |            | 175.56 |       | P        | 24.4 |
| 8 | <input type="checkbox"/> |       |            | 375.58 |       | P        | 20.8 |
| 9 | <input type="checkbox"/> |       |            | 40.00  |       | P        | 16.7 |

**150 Nd [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 4 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 5 | <input type="checkbox"/> |       |            | 4.45  |       | P        | 86.6 |
| 6 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 62.5 |
| 7 | <input type="checkbox"/> |       |            | 23.33 |       | P        | 93.7 |
| 8 | <input type="checkbox"/> |       |            | 56.67 |       | P        | 38.6 |
| 9 | <input type="checkbox"/> |       |            | 24.44 |       | P        | 47.9 |

**156 Dy [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 8.33   |       | P        | 0.0  |
| 5 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 28.7 |
| 6 | <input type="checkbox"/> |       |            | 13.89  |       | P        | 69.3 |
| 7 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 34.7 |
| 8 | <input type="checkbox"/> |       |            | 113.90 |       | P        | 23.5 |
| 9 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 18.2 |

**156 Dy [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 4 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 0.0  |
| 5 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 33.3 |
| 6 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 32.8 |
| 8 | <input type="checkbox"/> |       |            | 108.89 |       | P        | 14.1 |
| 9 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 13.5 |

**160 Gd [ No Gas ] Noavailable calibration poin...**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 48.0 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 4 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 91.7 |
| 5 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 69.3 |
| 6 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 26.7 |
| 7 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 88.2 |
| 8 | <input type="checkbox"/> |       |            | 72.22 |       | P        | 6.7  |
| 9 | <input type="checkbox"/> |       |            | 66.67 |       | P        | 0.0  |

**160 Gd [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 103.34 |       | P        | 22.6 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 91.11  |       | P        | 34.8 |
| 4 | <input type="checkbox"/> |       |            | 90.00  |       | P        | 24.3 |
| 5 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 16.0 |
| 6 | <input type="checkbox"/> |       |            | 93.34  |       | P        | 21.7 |
| 7 | <input type="checkbox"/> |       |            | 82.22  |       | P        | 16.4 |
| 8 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 7.2  |
| 9 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 10.8 |

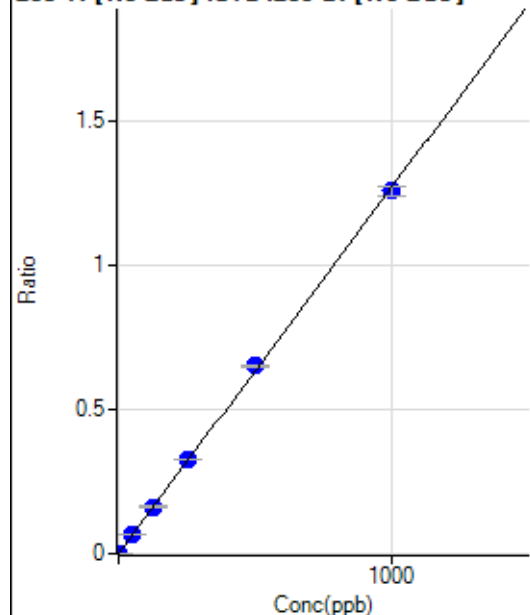
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 22.23 |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 5 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 57.3 |
| 6 | <input type="checkbox"/> |       |            | 5.55  |       | P        | 86.6 |
| 7 | <input type="checkbox"/> |       |            | 13.89 |       | P        | 34.7 |
| 8 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 100. |
| 9 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 75.5 |

**164 Er [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 88.2 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 72.1 |
| 4 | <input type="checkbox"/> |       |            | 6.66  |       | P        | 86.6 |
| 5 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |
| 6 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 21.6 |
| 7 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 43.3 |
| 8 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 13.4 |
| 9 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |

203 Tl [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 180.56     | 0.0001 | P    | 32.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.975      | 4148.08    | 0.0013 | P    | 3.1  |
| 4 | <input type="checkbox"/> | 50.000   | 51.234     | 209172.80  | 0.0652 | P    | 3.3  |
| 5 | <input type="checkbox"/> | 125.000  | 128.336    | 521628.99  | 0.1631 | P    | 3.9  |
| 6 | <input type="checkbox"/> | 250.000  | 258.257    | 1034799.51 | 0.3282 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 512.586    | 2025427.21 | 0.6513 | P    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.164    | 3985224.13 | 1.2594 | P    | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 1697.41    | 0.0006 | P    | 6.8  |

$$y = 0.0013 * x + 5.4635E-005$$

$$R = 0.9998$$

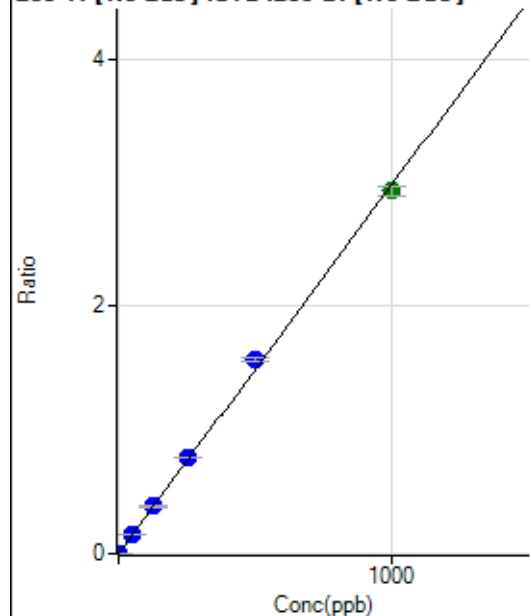
$$DL = 0.04143$$

$$BEC = 0.043$$

Weight: &lt;None&gt;

Min Conc: 0

205 Tl [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 413.92     | 0.0001 | P    | 14.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.973      | 9701.17    | 0.0030 | P    | 3.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.069     | 489296.56  | 0.1524 | P    | 2.7  |
| 5 | <input type="checkbox"/> | 125.000  | 129.671    | 1236786.50 | 0.3867 | P    | 3.9  |
| 6 | <input type="checkbox"/> | 250.000  | 260.582    | 2450100.10 | 0.7771 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 524.891    | 4866892.17 | 1.5651 | P    | 1.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 984.272    | 9286828.07 | 2.9347 | A    | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 4253.64    | 0.0016 | P    | 3.6  |

$$y = 0.0030 * x + 1.2498E-004$$

$$R = 0.9995$$

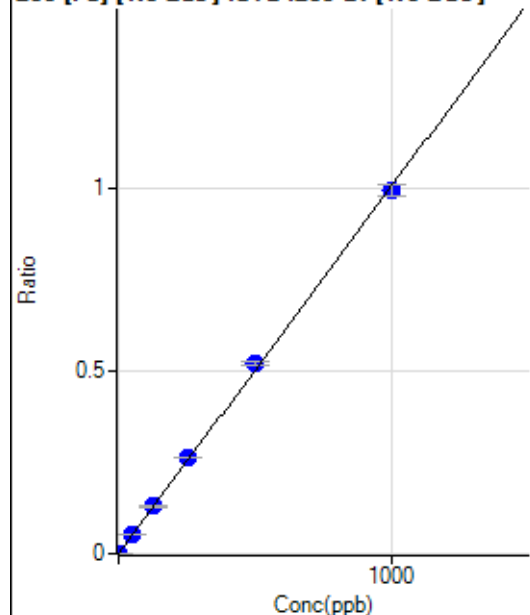
$$DL = 0.01788$$

$$BEC = 0.04192$$

Weight: &lt;None&gt;

Min Conc: 0

206 [Pb] [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 270.38     | 0.0001 | P    | 21.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.935      | 3270.87    | 0.0010 | P    | 5.3  |
| 4 | <input type="checkbox"/> | 50.000   | 51.349     | 165869.43  | 0.0517 | P    | 3.0  |
| 5 | <input type="checkbox"/> | 125.000  | 129.962    | 417856.21  | 0.1306 | P    | 2.8  |
| 6 | <input type="checkbox"/> | 250.000  | 259.672    | 822697.90  | 0.2609 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 518.879    | 1620949.60 | 0.5213 | P    | 2.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.455    | 3138749.90 | 0.9919 | P    | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 19158.68   | 0.0070 | P    | 2.8  |

$$y = 0.0010 * x + 8.1627E-005$$

$$R = 0.9997$$

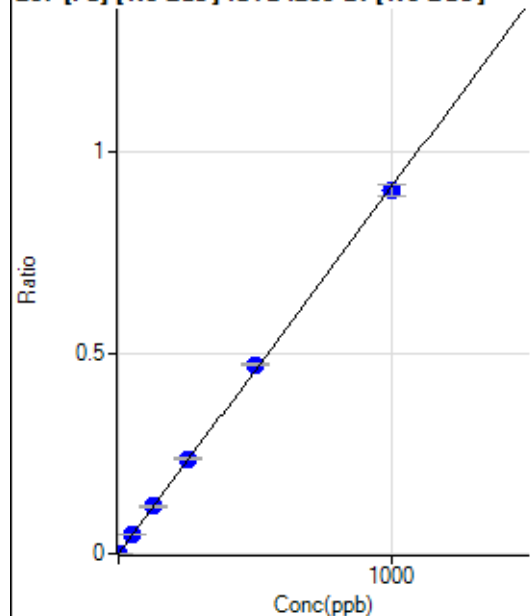
$$DL = 0.0525$$

$$BEC = 0.08126$$

Weight: &lt;None&gt;

Min Conc: 0

207 [Pb] [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 174.08     | 0.0001 | P    | 20.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.970      | 3011.54    | 0.0009 | P    | 6.9  |
| 4 | <input type="checkbox"/> | 50.000   | 51.559     | 151577.52  | 0.0472 | P    | 3.3  |
| 5 | <input type="checkbox"/> | 125.000  | 129.502    | 378989.91  | 0.1185 | P    | 3.6  |
| 6 | <input type="checkbox"/> | 250.000  | 259.186    | 747671.94  | 0.2371 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 515.979    | 1467760.80 | 0.4720 | P    | 1.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.073    | 2862667.28 | 0.9047 | P    | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 16015.59   | 0.0058 | P    | 3.0  |

$$y = 9.1466E-004 * x + 5.2310E-005$$

$$R = 0.9998$$

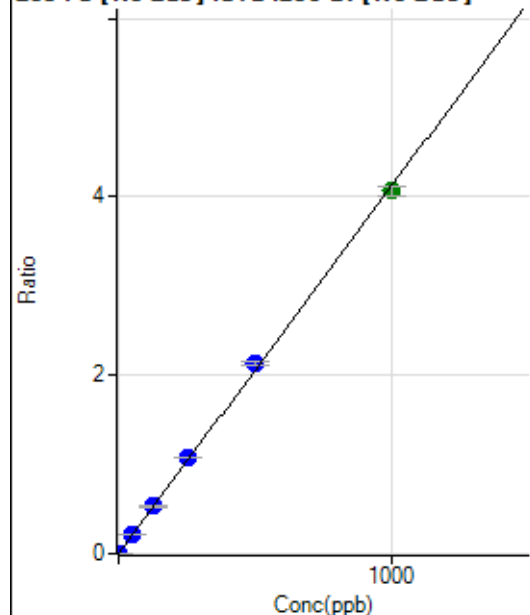
$$DL = 0.03503$$

$$BEC = 0.05719$$

Weight: &lt;None&gt;

Min Conc: 0

208 Pb [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 953.75      | 0.0003 | P    | 10.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.954      | 13516.06    | 0.0042 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 50.000   | 51.328     | 679807.74   | 0.2117 | P    | 2.8  |
| 5 | <input type="checkbox"/> | 125.000  | 129.762    | 1710644.81  | 0.5348 | P    | 3.1  |
| 6 | <input type="checkbox"/> | 250.000  | 260.083    | 3379026.72  | 1.0716 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 519.347    | 6653434.09  | 2.1396 | P    | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.144    | 12867862.41 | 4.0666 | A    | 2.9  |
| 9 | <input type="checkbox"/> |          |            | 75041.95    | 0.0273 | P    | 1.8  |

$$y = 0.0041 * x + 2.8733E-004$$

$$R = 0.9997$$

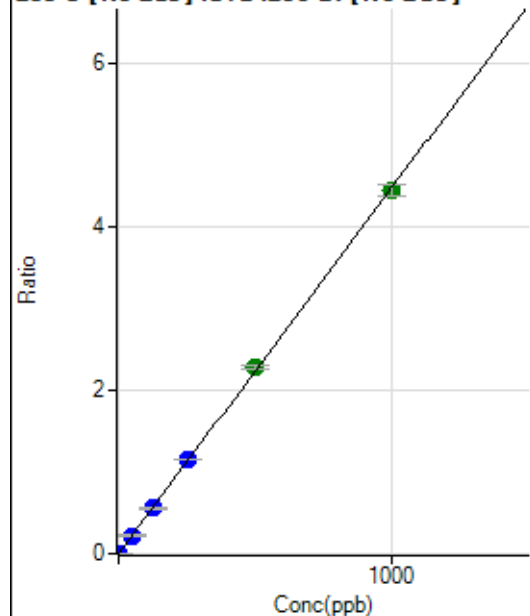
$$DL = 0.02083$$

$$BEC = 0.06975$$

Weight: &lt;None&gt;

Min Conc: 0

238 U [No Gas] ISTD :209 Bi [No Gas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00       | 0.0000 | P    | 57.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.939      | 13485.24    | 0.0042 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 49.274     | 707580.71   | 0.2204 | P    | 2.9  |
| 5 | <input type="checkbox"/> | 125.000  | 125.869    | 1800205.55  | 0.5629 | P    | 3.9  |
| 6 | <input type="checkbox"/> | 250.000  | 258.677    | 3647805.59  | 1.1569 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 510.622    | 7101131.50  | 2.2836 | A    | 2.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.448    | 14044532.61 | 4.4385 | A    | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 1425.15     | 0.0005 | P    | 7.7  |

$$y = 0.0045 * x + 7.5423E-006$$

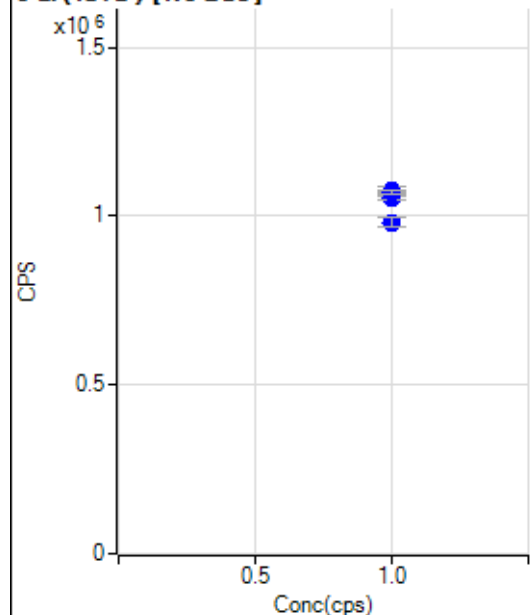
$$R = 0.9999$$

$$DL = 0.002932$$

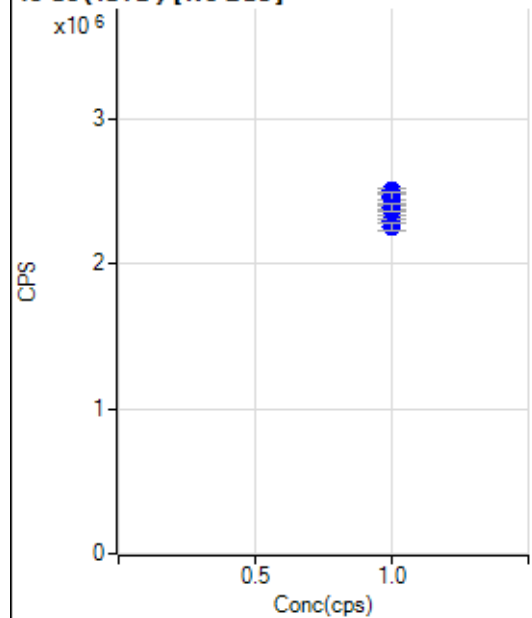
$$BEC = 0.001686$$

Weight: &lt;None&gt;

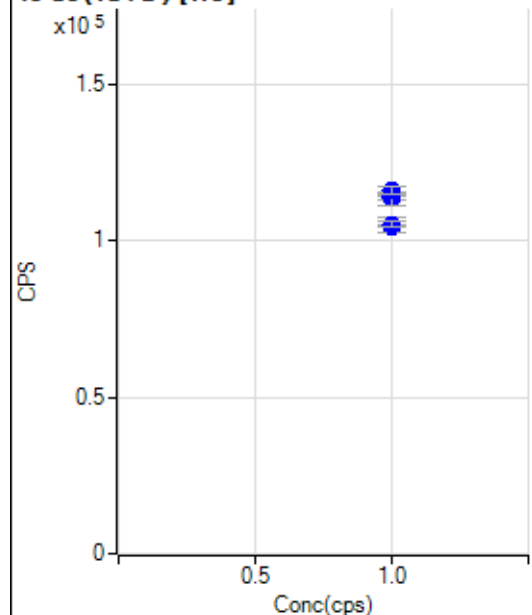
Min Conc: 0

**6 Li (ISTD) [No Gas]**

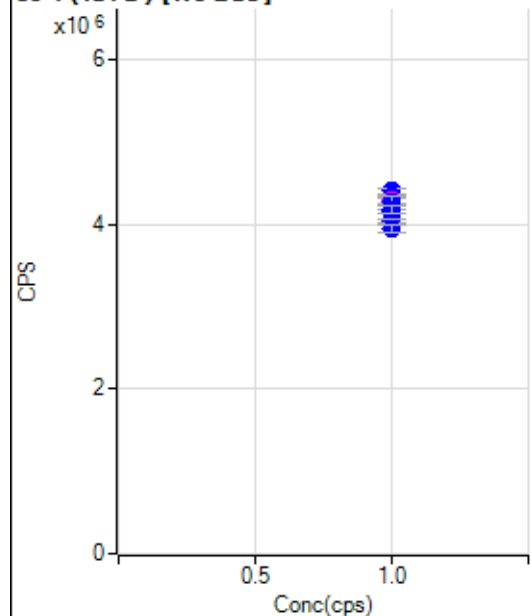
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1068805.27 |       | P        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1061187.36 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1068994.68 |       | P        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1074439.50 |       | P        | 2.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1068988.01 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1052884.15 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1071162.96 |       | P        | 1.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 981883.86  |       | P        | 2.7 |

**45 Sc (ISTD) [No Gas]**

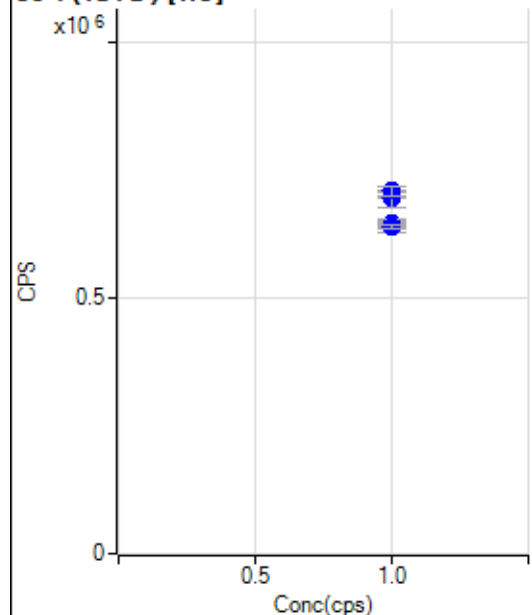
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2505805.31 |       | P        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2483884.04 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2465255.35 |       | P        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2452513.77 |       | P        | 4.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2358717.85 |       | P        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2299326.33 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2388827.92 |       | P        | 2.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2262091.87 |       | P        | 2.3 |

**45 Sc (ISTD) [He]**

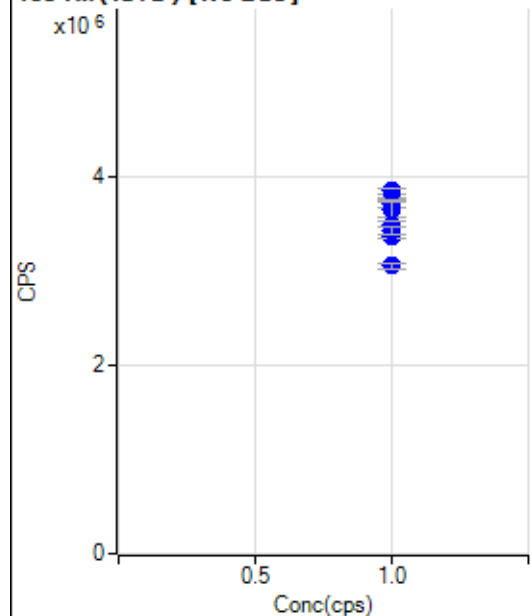
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 113677.28 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 114133.25 |       | P        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 113412.50 |       | P        | 3.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 115937.02 |       | P        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 104965.83 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 104659.73 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 105274.52 |       | P        | 4.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 105185.34 |       | P        | 1.7 |

**89 Y (ISTD) [No Gas]**

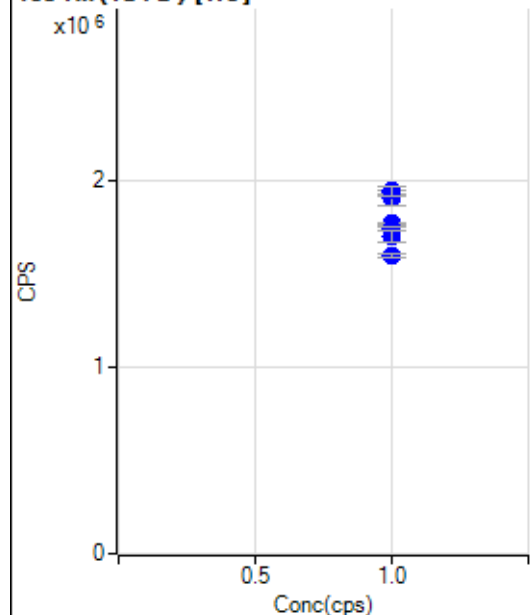
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4400761.11 |       | P        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4330310.35 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4297664.24 |       | M        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4259102.23 |       | P        | 3.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4143679.00 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4035509.59 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4177870.60 |       | P        | 2.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3931716.12 |       | P        | 2.4 |

**89 Y (ISTD) [He]**

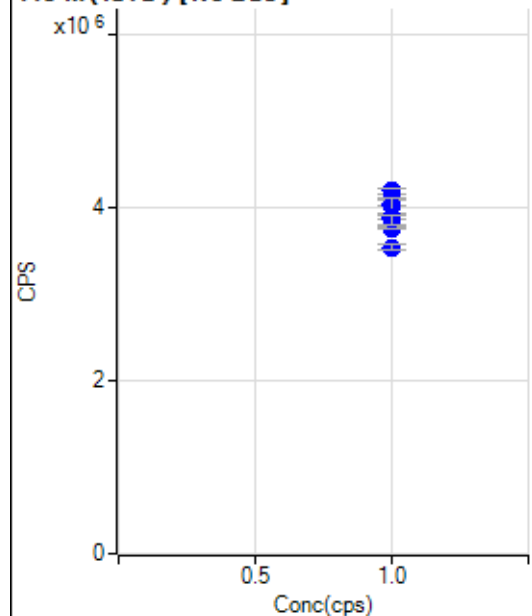
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 697489.15 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 700929.72 |       | P        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 694866.27 |       | P        | 4.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 710214.39 |       | P        | 3.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 648064.02 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 644474.16 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 642087.44 |       | P        | 4.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 638646.78 |       | P        | 1.1 |

**103 Rh (ISTD) [No Gas]**

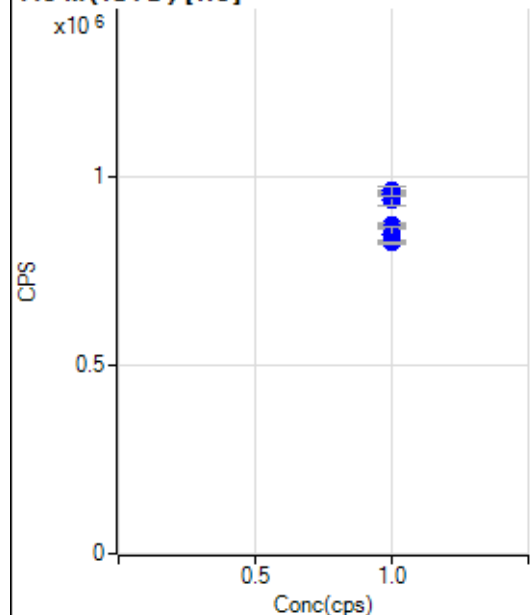
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3846002.82 |       | P        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3762814.41 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3716016.31 |       | P        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3649389.14 |       | P        | 4.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3495414.23 |       | P        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3360456.37 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3421254.98 |       | P        | 2.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3053580.78 |       | P        | 2.1 |

**103 Rh (ISTD) [He]**

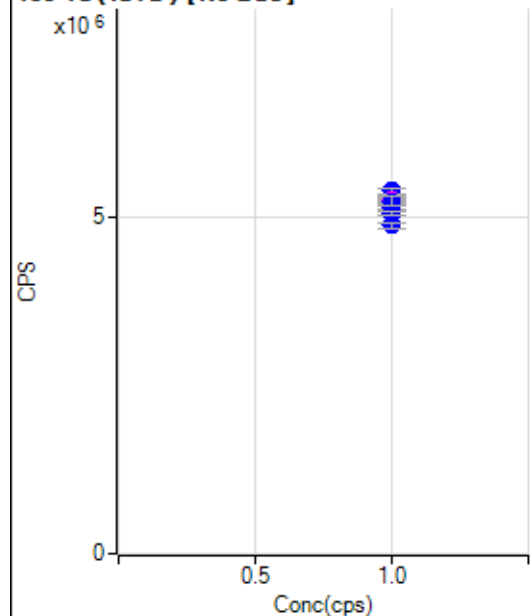
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1932472.47 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1933409.80 |       | P        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1902349.64 |       | P        | 4.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1941843.06 |       | P        | 2.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1765359.75 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1742155.68 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1702209.84 |       | P        | 3.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1595151.43 |       | P        | 0.8 |

**115 In (ISTD) [No Gas]**

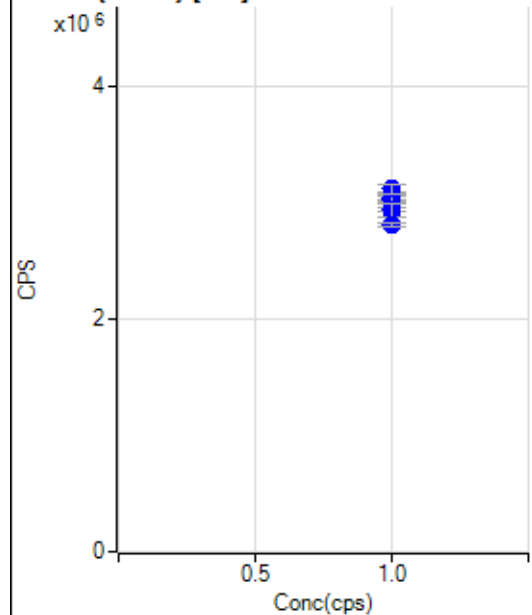
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4192423.57 |       | P        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4099960.15 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4055270.27 |       | P        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4015076.68 |       | P        | 4.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3885754.37 |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3757343.21 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3856406.11 |       | P        | 2.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3542210.57 |       | P        | 1.9 |

**115 In (ISTD) [He]**

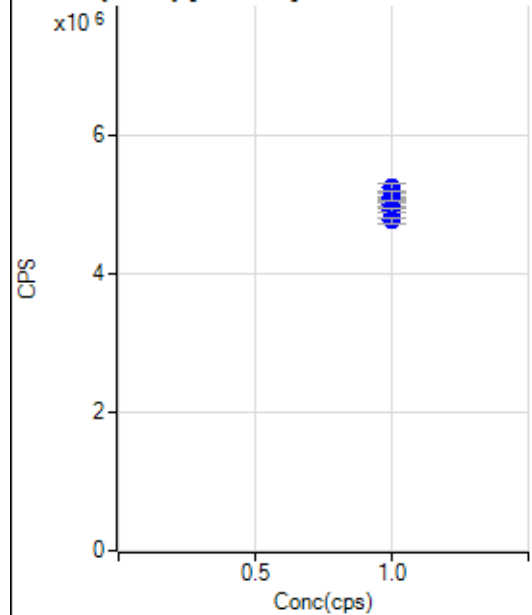
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 958228.50 |       | P        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 957014.70 |       | P        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 942261.81 |       | P        | 3.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 963987.01 |       | P        | 2.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 875902.03 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 865714.28 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 849429.25 |       | P        | 4.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 826648.47 |       | P        | 0.7 |

**159 Tb (ISTD) [No Gas]**

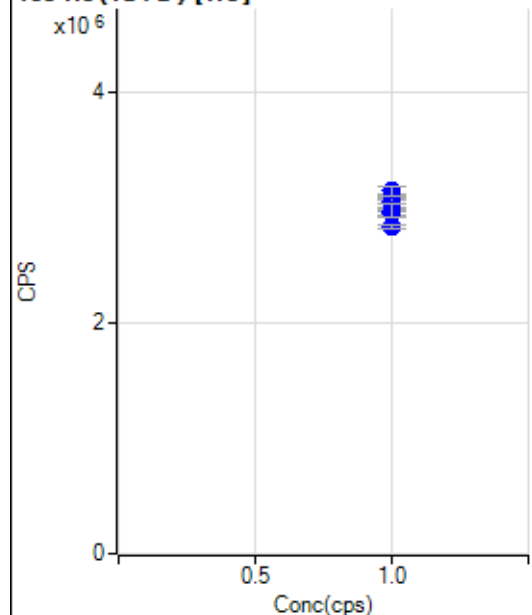
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5387196.45 |       | P        | 1.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5228343.22 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5241684.09 |       | M        | 2.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5224202.56 |       | P        | 4.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5138214.86 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5048098.71 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5231488.22 |       | P        | 2.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4875652.43 |       | P        | 1.9 |

**159 Tb (ISTD) [He]**

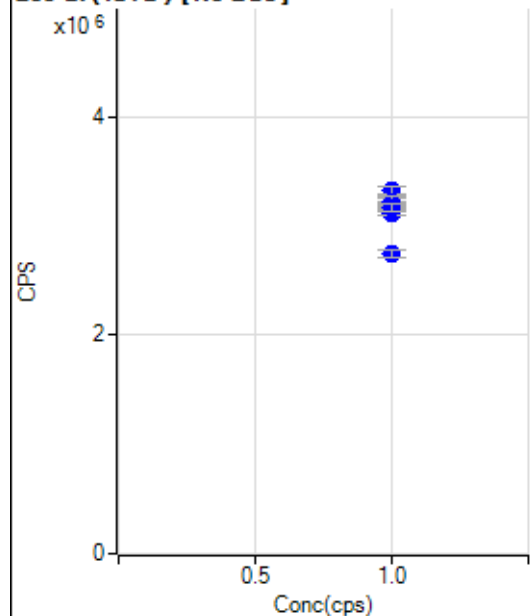
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3046894.78 |       | P        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3031560.23 |       | P        | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3027376.65 |       | P        | 4.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3119239.40 |       | P        | 2.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2927345.82 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2946547.60 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2937089.21 |       | P        | 4.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2809538.07 |       | P        | 0.7 |

**165 Ho (ISTD) [No Gas]**

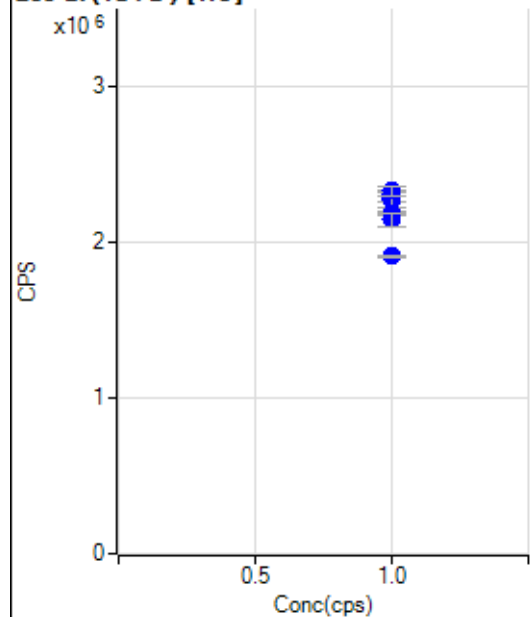
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5233660.36 |       | P        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5081024.68 |       | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5101229.72 |       | M        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5085233.75 |       | P        | 4.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5004306.06 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4913011.66 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5111398.25 |       | P        | 2.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4764801.45 |       | P        | 1.9 |

**165 Ho (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3053358.12 |       | P        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3043274.71 |       | P        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3052154.05 |       | P        | 4.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3140866.90 |       | P        | 3.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2947943.43 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2973734.16 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2967407.97 |       | P        | 4.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2831559.97 |       | P        | 0.8 |

**209 Bi (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3318424.71 |       | P        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3205304.02 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3212138.63 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3201418.53 |       | P        | 4.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3153095.16 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3110224.37 |       | P        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3165958.95 |       | P        | 2.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2744704.33 |       | P        | 2.3 |

**209 Bi (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2314923.30 |       | P        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2281754.99 |       | P        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2280610.94 |       | P        | 4.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2333210.66 |       | P        | 2.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2189837.19 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2183351.49 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2148773.04 |       | P        | 4.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1914114.97 |       | P        | 0.5 |

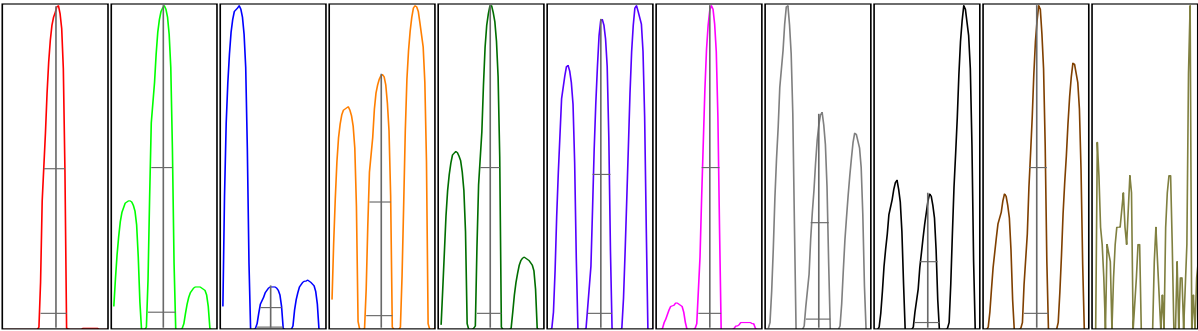
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7070218 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |        |          |            |        |
|----------|--------|----------|------------|--------|
| Mass     | Count  | RSD%     | RSD%       | RSD%   |
|          | (Mean) | (Actual) | (Required) | (Flag) |
| 9        | 3395   | 0.58     | 5.00       |        |
| 24       | 55256  | 0.50     | 5.00       |        |
| 25       | 7249   | 0.23     | 5.00       |        |
| 26       | 8238   | 0.55     | 5.00       |        |
| 59       | 26275  | 0.39     | 5.00       |        |
| 113      | 3465   | 0.85     | 5.00       |        |
| 115      | 45675  | 0.81     | 5.00       |        |
| 206      | 10438  | 0.66     | 5.00       |        |
| 207      | 9437   | 0.77     | 5.00       |        |
| 208      | 22392  | 0.53     | 5.00       |        |
| 220      | 0      | 63.89    |            |        |

| Mass | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
|      | Count       | Count       | Count       | Count       | Count       |
| 9    | 3391        | 3405        | 3421        | 3369        | 3388        |
| 24   | 55159       | 55649       | 55391       | 54913       | 55166       |
| 25   | 7249        | 7275        | 7236        | 7231        | 7252        |
| 26   | 8239        | 8270        | 8250        | 8160        | 8269        |
| 59   | 26303       | 26402       | 26252       | 26119       | 26297       |
| 113  | 3493        | 3495        | 3467        | 3438        | 3433        |
| 115  | 45996       | 45972       | 45862       | 45239       | 45305       |
| 206  | 10360       | 10533       | 10476       | 10388       | 10433       |
| 207  | 9346        | 9514        | 9431        | 9391        | 9505        |
| 208  | 22396       | 22519       | 22440       | 22200       | 22404       |
| 220  | 0           | 0           | 0           | 0           | 0           |

Integration Time [sec] = 0.1



| Mass | Peak   | Axis     | Axis          | Axis   | Width-X% | Width-X%   | Width- |
|------|--------|----------|---------------|--------|----------|------------|--------|
|      | Height | (Actual) | (Required)    | (Flag) | (Actual) | (Required) | X%     |
| 9    | 5712   | 9.05     | 8.9 - 9.1     |        | 0.779    | 0.900      |        |
| 24   | 91004  | 24.00    | 23.9 - 24.1   |        | 0.821    | 0.900      |        |
| 25   | 11959  | 24.95    | 24.9 - 25.1   |        | 0.780    | 0.900      |        |
| 26   | 13721  | 26.00    | 25.9 - 26.1   |        | 0.780    | 0.900      |        |
| 59   | 46655  | 59.00    | 58.9 - 59.1   |        | 0.738    | 0.900      |        |
| 113  | 7342   | 113.05   | 112.9 - 113.1 |        | 0.705    | 0.900      |        |
| 115  | 94839  | 115.05   | 114.9 - 115.1 |        | 0.684    | 0.900      |        |
| 206  | 21998  | 206.05   | 205.9 - 206.1 |        | 0.723    | 0.900      |        |
| 207  | 20190  | 207.05   | 206.9 - 207.1 |        | 0.725    | 0.900      |        |
| 208  | 48380  | 208.05   | 207.9 - 208.1 |        | 0.726    | 0.900      |        |
| 220  |        |          | -             |        |          |            |        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 8.3   | V    | Deflect       | 16.4  | V    |
| Extract 2     | -100.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 200   | V    |                       |       |       |

[He]

| Mass | Count  | RSD%     | RSD%       |
|------|--------|----------|------------|
|      | (Mean) | (Actual) | (Required) |
| 59   | 6781   | 2.61     |            |
| 89   | 17808  | 2.52     |            |
| 205  | 9936   | 2.16     |            |

| Mass | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
|      | Count       | Count       | Count       | Count       | Count       |
| 59   | 6525        | 6673        | 6858        | 6958        | 6889        |
| 89   | 17206       | 17473       | 17964       | 18223       | 18171       |
| 205  | 9608        | 9831        | 10031       | 10119       | 10091       |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 9.4   | V    | Deflect       | 2.6   | V    |
| Extract 2     | -100.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 4.1   | mL/min | OctP RF       | 200   | V    |                       |       |       |