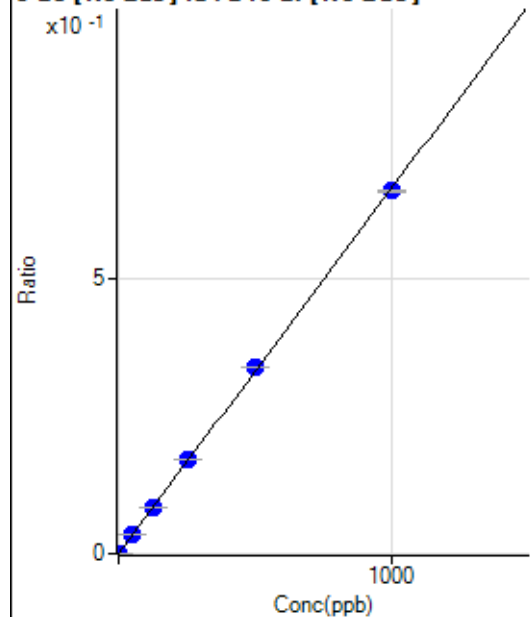


Batch Folder: D:\ICP-MS Data\P7082419-MS.b\  
Analysis File: P7082419-MS.batch.bin  
DA Date-Time: 2019-08-24 19:39:45  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 002CALB.d          | S00         | 2019-08-24 13:42:15 |
| 2     | 003CALS.d          | S02         | 2019-08-24 13:45:51 |
| 3     | 004CALS.d          | S03         | 2019-08-24 13:50:36 |
| 4     | 005CALS.d          | S04         | 2019-08-24 13:54:33 |
| 5     | 006CALS.d          | S05         | 2019-08-24 13:58:24 |
| 6     | 007CALS.d          | S06         | 2019-08-24 14:02:14 |
| 7     | 008CALS.d          | S07         | 2019-08-24 14:06:02 |
| 8     | 009CALS.d          | S08         | 2019-08-24 14:09:49 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 35.56      | 0.0000 | P    | 5.4  |
| 2 | <input type="checkbox"/> | 1.000    | 0.997      | 1493.43    | 0.0007 | P    | 6.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.735     | 75032.81   | 0.0343 | P    | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 127.632    | 177738.57  | 0.0845 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 256.800    | 339571.39  | 0.1700 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 509.153    | 653373.30  | 0.3371 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.308    | 1304972.01 | 0.6577 | P    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 328.90     | 0.0002 | P    | 18.8 |

$$y = 6.6211\text{E-}004 * x + 1.6590\text{E-}005$$

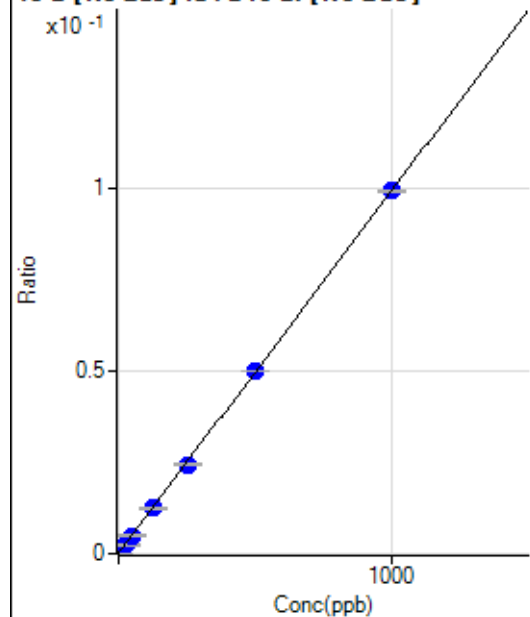
$$R = 0.9999$$

$$DL = 0.004055$$

$$BEC = 0.02506$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 355.58    | 0.0002 | P    | 3.7  |
| 2 | <input type="checkbox"/> | 25.000   | 22.500     | 5292.82   | 0.0024 | P    | 10.0 |
| 3 | <input type="checkbox"/> | 50.000   | 48.313     | 10857.09  | 0.0050 | P    | 5.3  |
| 4 | <input type="checkbox"/> | 125.000  | 123.167    | 26045.31  | 0.0124 | P    | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 244.055    | 48681.84  | 0.0244 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 503.640    | 97163.54  | 0.0501 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.042   | 197217.38 | 0.0994 | P    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 8852.90   | 0.0043 | P    | 8.7  |

$$y = 9.9217\text{E-}005 * x + 1.6591\text{E-}004$$

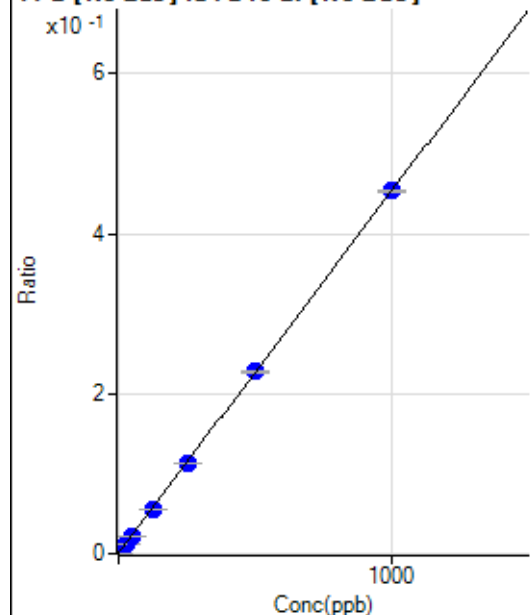
$$R = 1.0000$$

$$DL = 0.1852$$

$$BEC = 1.672$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1500.14   | 0.0007 | P    | 5.3 |
| 2 | <input type="checkbox"/> | 25.000   | 23.067     | 24579.06  | 0.0111 | P    | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 48.048     | 49116.91  | 0.0224 | P    | 3.0 |
| 4 | <input type="checkbox"/> | 125.000  | 122.585    | 118078.25 | 0.0562 | P    | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 247.370    | 224845.76 | 0.1126 | P    | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 500.837    | 440441.61 | 0.2273 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.687   | 899594.38 | 0.4534 | P    | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 40719.90  | 0.0199 | P    | 6.9 |

$$y = 4.5236\text{E-}004 * x + 6.9995\text{E-}004$$

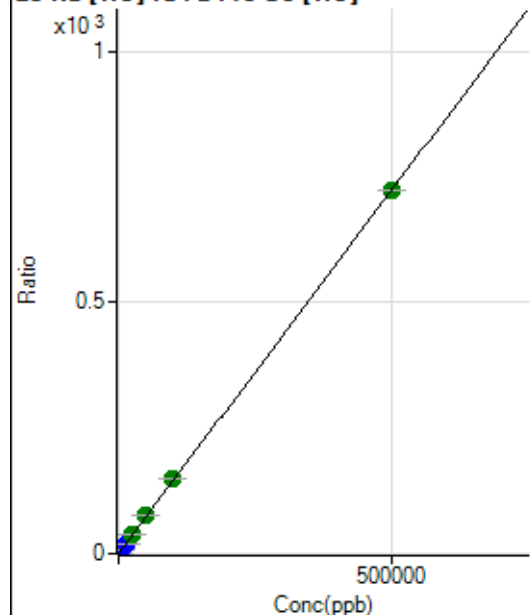
$$R = 1.0000$$

$$DL = 0.248$$

$$BEC = 1.547$$

Weight: &lt;None&gt;

Min Conc: 0

**23 Na [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      | 4687.04     | 0.0252   | P    | 4.4 |
| 2 | <input type="checkbox"/> | 500.000   | 458.986    | 133932.53   | 0.6894   | P    | 2.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 4951.218   | 1343625.75  | 7.1902   | P    | 0.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 12605.037  | 3187443.32  | 18.2661  | P    | 0.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 25590.551  | 6103163.94  | 37.0576  | A    | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 51677.428  | 12376002.36 | 74.8082  | A    | 0.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 102404.85  | 25611255.61 | 148.2164 | A    | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 499319.66  | 128744136.2 | 722.5961 | A    | 0.1 |

$$y = 0.0014 * x + 0.0252$$

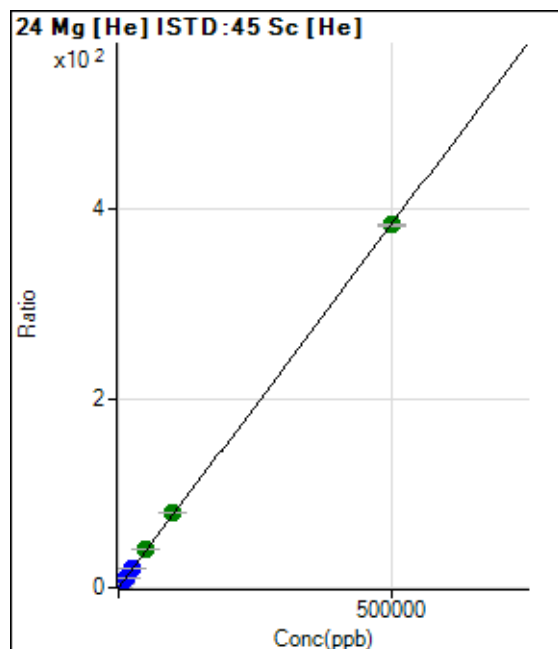
$$R = 1.0000$$

$$DL = 2.311$$

$$BEC = 17.41$$

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      | 91.67       | 0.0005   | P   | 15.9 |
| 2 | <input type="checkbox"/> | 500.000   | 468.204    | 69935.92    | 0.3600   | P   | 4.1  |
| 3 | <input type="checkbox"/> | 5000.000  | 5036.777   | 722772.81   | 3.8678   | P   | 1.0  |
| 4 | <input type="checkbox"/> | 12500.000 | 12730.218  | 1705726.06  | 9.7749   | P   | 0.4  |
| 5 | <input type="checkbox"/> | 25000.000 | 25736.178  | 3254508.34  | 19.7610  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 50000.000 | 52200.994  | 6630883.31  | 40.0811  | A   | 0.5  |
| 7 | <input type="checkbox"/> | 100000.00 | 102620.67  | 13615190.06 | 78.7939  | A   | 0.8  |
| 8 | <input type="checkbox"/> | 500000.00 | 499212.86  | 68292290.42 | 383.3022 | A   | 0.2  |

$$y = 7.6781\text{E-}004 * x + 4.9264\text{E-}004$$

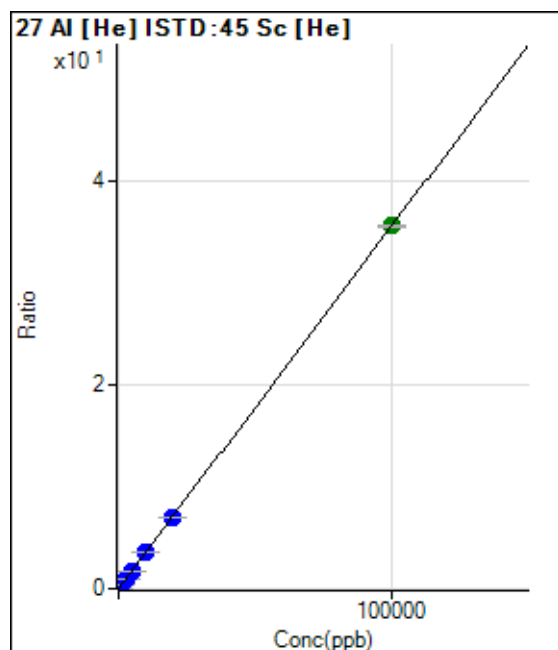
$$R = 1.0000$$

$$DL = 0.3062$$

$$BEC = 0.6416$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 5.55       | 0.0000  | P   | 86.6 |
| 2 | <input type="checkbox"/> | 20.000    | 17.062     | 1186.21    | 0.0061  | P   | 7.7  |
| 3 | <input type="checkbox"/> | 1000.000  | 980.894    | 65271.16   | 0.3493  | P   | 2.8  |
| 4 | <input type="checkbox"/> | 2500.000  | 2467.424   | 153327.81  | 0.8787  | P   | 0.8  |
| 5 | <input type="checkbox"/> | 5000.000  | 4910.301   | 287977.56  | 1.7486  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 10000.000 | 9933.085   | 585183.59  | 3.5372  | P   | 0.8  |
| 7 | <input type="checkbox"/> | 20000.000 | 19498.667  | 1199813.24 | 6.9435  | P   | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 100112.44  | 6351655.31 | 35.6499 | A   | 0.5  |

$$y = 3.5610\text{E-}004 * x + 3.0030\text{E-}005$$

$$R = 1.0000$$

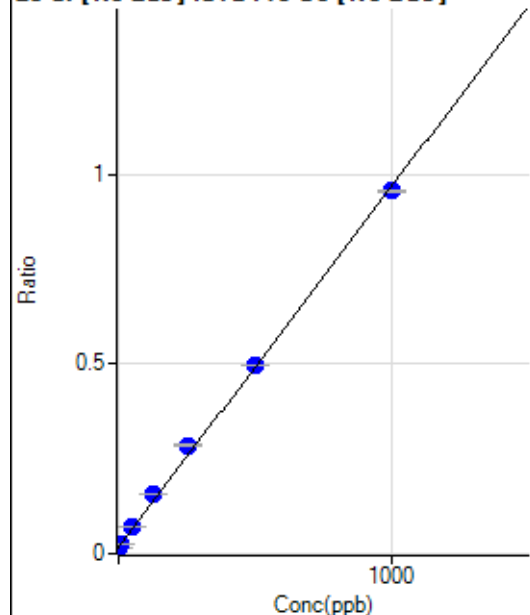
$$DL = 0.2191$$

$$BEC = 0.08433$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 76284.29   | 0.0175 | P   | 2.2 |
| 2 | <input type="checkbox"/> | 10.000   | 8.394      | 114223.15  | 0.0255 | P   | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 58.565     | 323108.46  | 0.0732 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 148.119    | 661836.59  | 0.1585 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 281.842    | 1125859.20 | 0.2858 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 502.461    | 1907986.11 | 0.4958 | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.507    | 3784514.19 | 0.9575 | P   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 180626.43  | 0.0444 | P   | 1.5 |

$$y = 9.5189\text{E-}004 * x + 0.0175$$

$$R = 0.9993$$

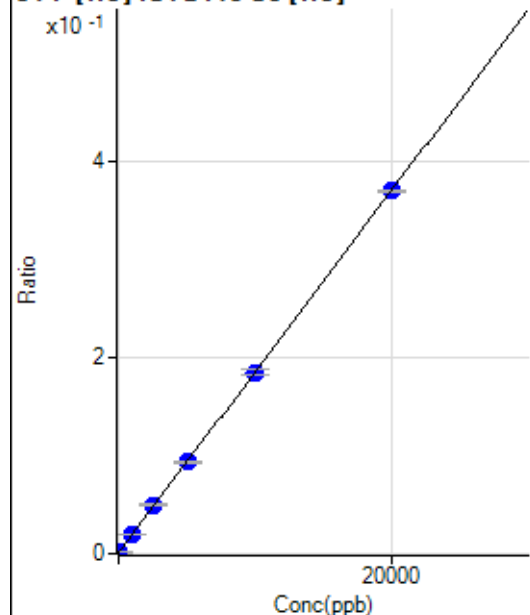
$$\text{DL} = 1.202$$

$$\text{BEC} = 18.37$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -27.504    | 69.45    | 0.0004 | P   | 25.5 |
| 2 | <input type="checkbox"/> | 0.000     | 27.504     | 269.46   | 0.0014 | P   | 7.7  |
| 3 | <input type="checkbox"/> | 1000.000  | 1018.350   | 3670.04  | 0.0196 | P   | 4.9  |
| 4 | <input type="checkbox"/> | 2500.000  | 2628.970   | 8605.61  | 0.0493 | P   | 2.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 5034.974   | 15422.47 | 0.0936 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 10000.000 | 9979.464   | 30562.75 | 0.1847 | P   | 3.7  |
| 7 | <input type="checkbox"/> | 20000.000 | 19984.486  | 63773.51 | 0.3691 | P   | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 152.79   | 0.0009 | P   | 46.3 |

$$y = 1.8423\text{E-}005 * x + 8.8017\text{E-}004$$

$$R = 1.0000$$

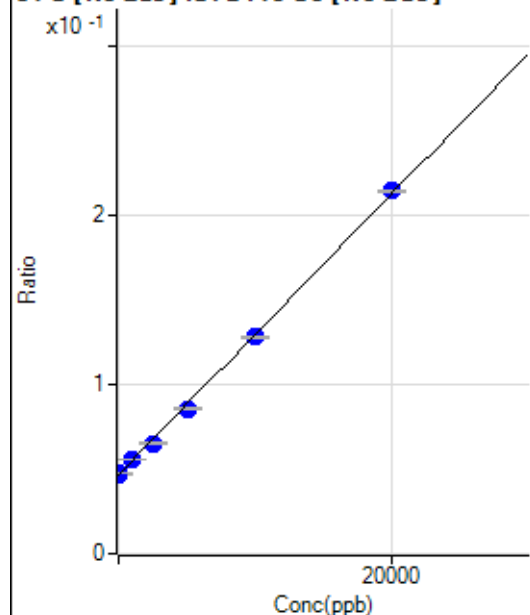
$$\text{DL} = 16.41$$

$$\text{BEC} = 47.77$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -74.263    | 201209.65 | 0.0461 | P   | 0.6 |
| 2 | <input type="checkbox"/> | 0.000     | 74.263     | 212295.89 | 0.0473 | P   | 0.8 |
| 3 | <input type="checkbox"/> | 1000.000  | 1046.340   | 244404.38 | 0.0554 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 2500.000  | 2227.605   | 272192.70 | 0.0652 | P   | 0.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 4693.967   | 337221.51 | 0.0856 | P   | 0.4 |
| 6 | <input type="checkbox"/> | 10000.000 | 9801.327   | 492126.65 | 0.1279 | P   | 0.9 |
| 7 | <input type="checkbox"/> | 20000.000 | 20207.577  | 845938.90 | 0.2140 | P   | 0.4 |
| 8 | <input type="checkbox"/> |           |            | 177407.85 | 0.0436 | P   | 1.2 |

$$y = 8.2790\text{E-}006 * x + 0.0467$$

R = 0.9997

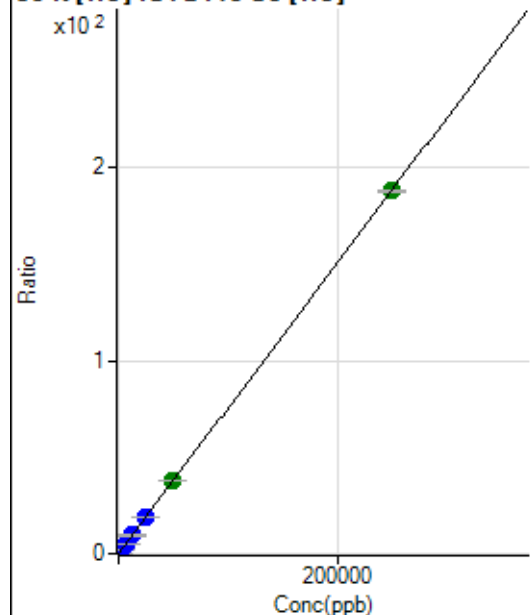
DL = 121.3

BEC = 5644

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 11054.56    | 0.0594   | P   | 3.5 |
| 2 | <input type="checkbox"/> | 500.000   | 474.775    | 80951.21    | 0.4167   | P   | 2.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2491.150   | 361418.19   | 1.9341   | P   | 1.0 |
| 4 | <input type="checkbox"/> | 6250.000  | 6256.713   | 831982.02   | 4.7678   | P   | 0.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12528.885  | 1562583.79  | 9.4879   | P   | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 25226.008  | 3150404.76  | 19.0429  | P   | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 50176.328  | 6535146.11  | 37.8190  | A   | 0.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 249940.66  | 33522139.29 | 188.1493 | A   | 0.5 |

$$y = 7.5254\text{E-}004 * x + 0.0594$$

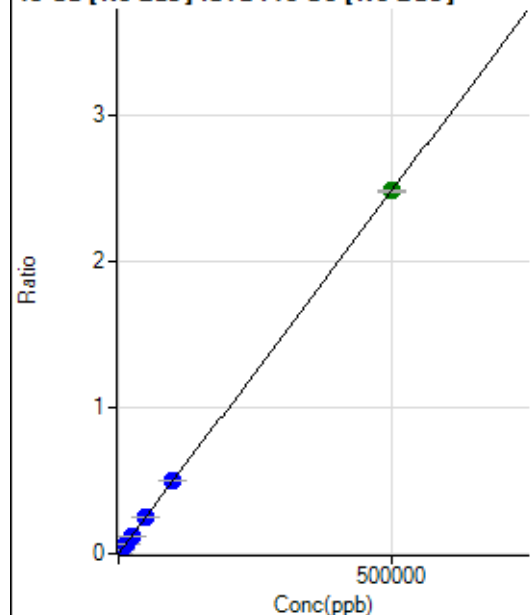
R = 1.0000

DL = 8.346

BEC = 78.92

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      | 111.12      | 0.0000 | P    | 19.0 |
| 2 | <input type="checkbox"/> | 500.000   | 478.563    | 10757.14    | 0.0024 | P    | 2.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 4878.605   | 106884.83   | 0.0242 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 12500.000 | 12336.708  | 255669.10   | 0.0612 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 25000.000 | 25087.926  | 490391.31   | 0.1245 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 50000.000 | 49945.917  | 953539.61   | 0.2478 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 99519.902  | 1951236.29  | 0.4937 | P    | 0.1  |
| 8 | <input type="checkbox"/> | 500000.00 | 500102.34  | 10083825.83 | 2.4806 | A    | 0.5  |

$$y = 4.9602\text{E-}006 * x + 2.5471\text{E-}005$$

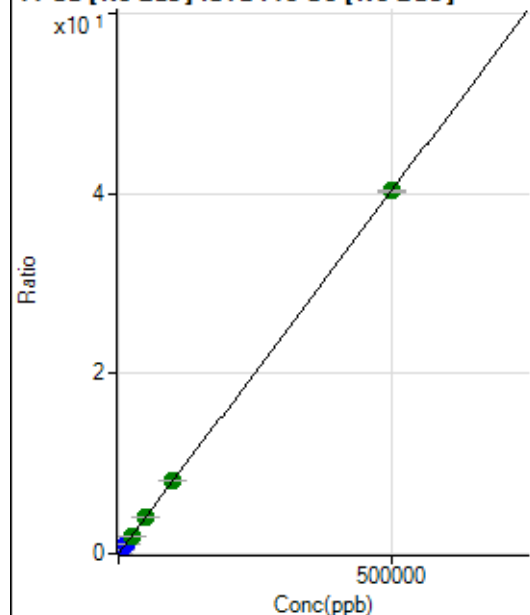
$$R = 1.0000$$

$$DL = 2.925$$

$$BEC = 5.135$$

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      | 2355.86     | 0.0005  | P    | 6.0 |
| 2 | <input type="checkbox"/> | 500.000   | 468.814    | 171930.39   | 0.0383  | P    | 1.2 |
| 3 | <input type="checkbox"/> | 5000.000  | 4912.592   | 1750224.45  | 0.3967  | P    | 0.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12316.640  | 4150175.70  | 0.9937  | P    | 0.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 24945.294  | 7927375.27  | 2.0120  | A    | 0.3 |
| 6 | <input type="checkbox"/> | 50000.000 | 50107.145  | 15551805.55 | 4.0410  | A    | 0.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 100089.33  | 31902506.62 | 8.0714  | A    | 0.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 499979.64  | 163889855.0 | 40.3171 | A    | 0.5 |

$$y = 8.0636\text{E-}005 * x + 5.3995\text{E-}004$$

$$R = 1.0000$$

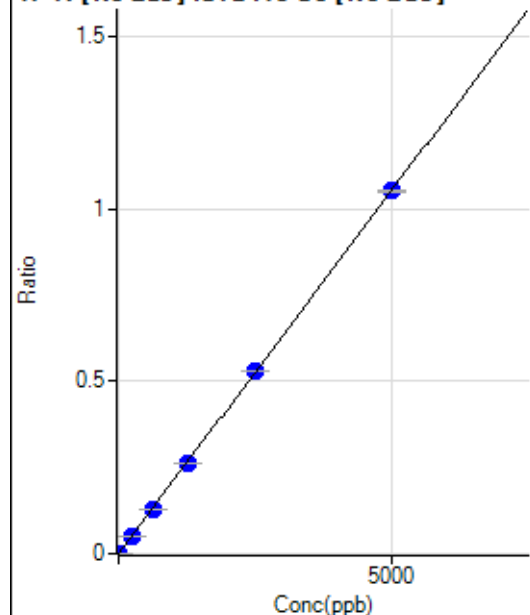
$$DL = 1.204$$

$$BEC = 6.696$$

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. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 63.89      | 0.0000 | P    | 19.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.956      | 4748.19    | 0.0011 | P    | 3.7  |
| 3 | <input type="checkbox"/> | 250.000  | 246.765    | 229463.92  | 0.0520 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 625.000  | 619.653    | 545322.23  | 0.1306 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1243.873   | 1032624.17 | 0.2621 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2508.557   | 2034115.13 | 0.5285 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4998.083   | 4162237.07 | 1.0531 | P    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 1602.94    | 0.0004 | P    | 6.7  |

$$y = 2.1069E-004 * x + 1.4639E-005$$

$$R = 1.0000$$

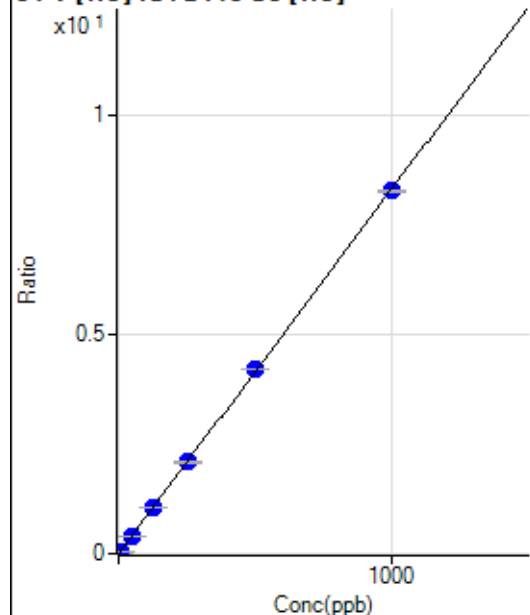
$$DL = 0.04115$$

$$BEC = 0.06948$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<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"/> | 5.000    | 4.772      | 7711.03    | 0.0397 | P    | 5.1  |
| 3 | <input type="checkbox"/> | 50.000   | 49.675     | 77195.19   | 0.4131 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 124.944    | 181320.74  | 1.0391 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 251.155    | 343998.37  | 2.0887 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 507.684    | 698493.10  | 4.2221 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.894    | 1431142.25 | 8.2823 | P    | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 313.34     | 0.0018 | P    | 3.7  |

$$y = 0.0083 * x + 5.8895E-006$$

$$R = 1.0000$$

$$DL = 0.00368$$

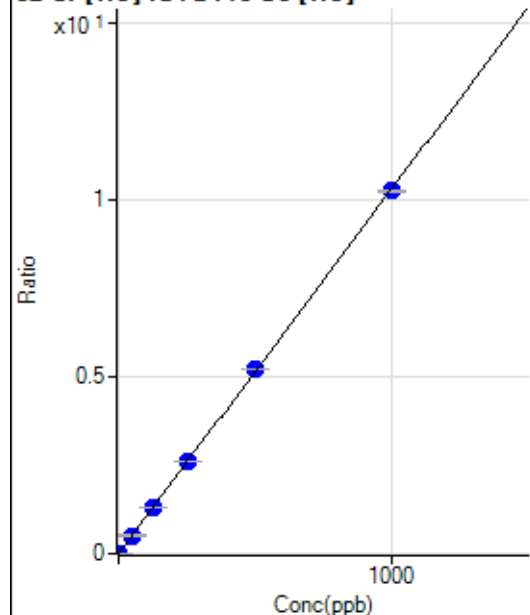
$$BEC = 0.0007082$$

Weight: &lt;None&gt;

Min Conc: 0



52 Cr [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      | 277.79     | 0.0015  | P   | 7.8 |
| 2 | <input type="checkbox"/> | 2.000    | 1.804      | 3901.70    | 0.0201  | P   | 4.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.948     | 96480.73   | 0.5163  | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 126.439    | 227663.43  | 1.3047  | P   | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 253.386    | 430354.83  | 2.6131  | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 506.843    | 864473.01  | 5.2254  | P   | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.555    | 1773319.37 | 10.2624 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 42280.64   | 0.2373  | P   | 1.7 |

$$y = 0.0103 * x + 0.0015$$

$$R = 1.0000$$

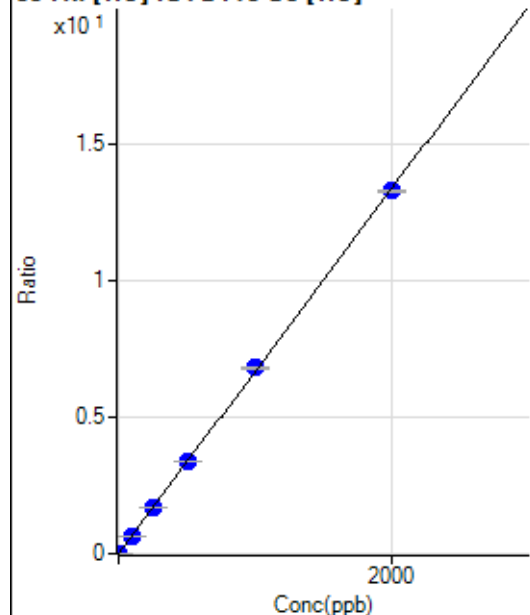
$$DL = 0.03378$$

$$BEC = 0.1448$$

Weight: &lt;None&gt;

Min Conc: 0

55 Mn [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      | 167.78     | 0.0009  | P   | 25.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.005      | 1476.77    | 0.0076  | P   | 7.6  |
| 3 | <input type="checkbox"/> | 100.000  | 99.388     | 124043.02  | 0.6638  | P   | 0.5  |
| 4 | <input type="checkbox"/> | 250.000  | 251.504    | 292869.99  | 1.6783  | P   | 0.3  |
| 5 | <input type="checkbox"/> | 500.000  | 506.254    | 556238.26  | 3.3774  | P   | 0.4  |
| 6 | <input type="checkbox"/> | 1000.000 | 1017.899   | 1123309.13 | 6.7899  | P   | 0.8  |
| 7 | <input type="checkbox"/> | 2000.000 | 1989.330   | 2292868.13 | 13.2689 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 8741.59    | 0.0491  | P   | 1.7  |

$$y = 0.0067 * x + 9.0199E-004$$

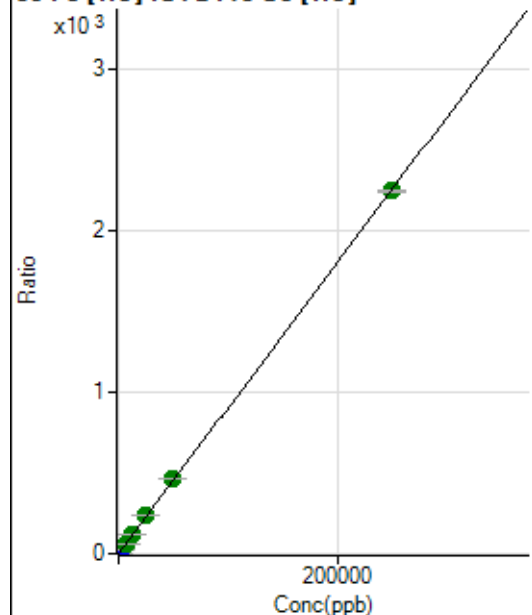
$$R = 0.9999$$

$$DL = 0.1021$$

$$BEC = 0.1352$$

Weight: &lt;None&gt;

Min Conc: 0

**56 Fe [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3155.99     | 0.0170    | P   | 8.1 |
| 2 | <input type="checkbox"/> | 50.000    | 49.857     | 90399.46    | 0.4653    | P   | 4.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2565.995   | 4315245.55  | 23.0925   | P   | 0.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6486.682   | 10182179.86 | 58.3505   | A   | 0.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 13033.390  | 19306059.69 | 117.2238  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 26211.915  | 38999530.50 | 235.7357  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 51387.248  | 79854040.67 | 462.1327  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249568.11  | 399867742.2 | 2,244.335 | A   | 0.6 |

$$y = 0.0090 * x + 0.0170$$

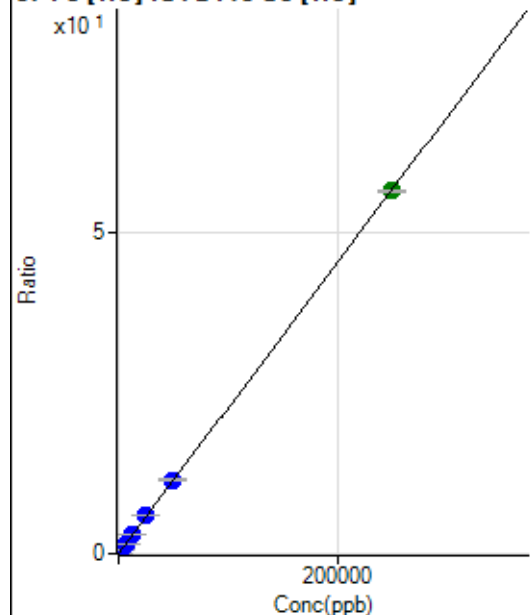
$$R = 1.0000$$

$$DL = 0.4596$$

$$BEC = 1.887$$

Weight: &lt;None&gt;

Min Conc: 0

**57 Fe [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 161.12      | 0.0009  | P   | 14.0 |
| 2 | <input type="checkbox"/> | 50.000    | 51.709     | 2446.57     | 0.0126  | P   | 1.1  |
| 3 | <input type="checkbox"/> | 2500.000  | 2557.455   | 108558.98   | 0.5809  | P   | 1.3  |
| 4 | <input type="checkbox"/> | 6250.000  | 6439.964   | 255041.36   | 1.4616  | P   | 1.3  |
| 5 | <input type="checkbox"/> | 12500.000 | 12930.533  | 483163.16   | 2.9337  | P   | 0.7  |
| 6 | <input type="checkbox"/> | 25000.000 | 25991.460  | 975441.07   | 5.8962  | P   | 0.1  |
| 7 | <input type="checkbox"/> | 50000.000 | 50829.840  | 1992313.17  | 11.5299 | P   | 0.8  |
| 8 | <input type="checkbox"/> | 250000.00 | 249708.03  | 10091214.92 | 56.6388 | A   | 0.4  |

$$y = 2.2682E-004 * x + 8.6481E-004$$

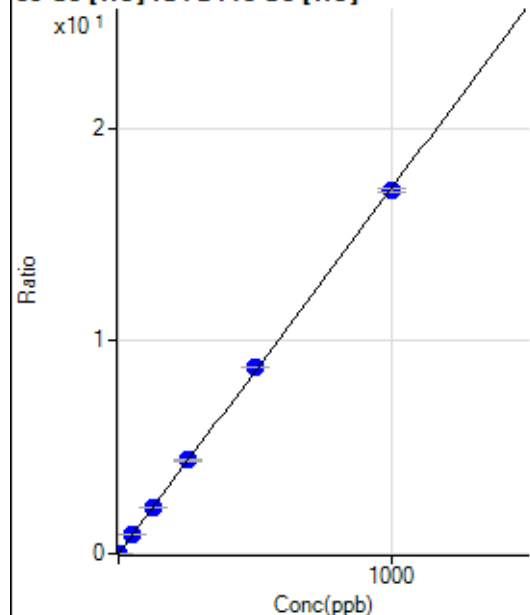
$$R = 1.0000$$

$$DL = 1.607$$

$$BEC = 3.813$$

Weight: &lt;None&gt;

Min Conc: 0

**59 Co [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      | 88.89      | 0.0005  | P    | 13.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.949      | 3258.20    | 0.0168  | P    | 4.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.371     | 164879.47  | 0.8823  | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 128.268    | 384321.75  | 2.2024  | P    | 0.1  |
| 5 | <input type="checkbox"/> | 250.000  | 255.431    | 722234.93  | 4.3854  | P    | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 510.295    | 1449310.95 | 8.7605  | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.018    | 2945652.66 | 17.0472 | P    | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 36282.77   | 0.2036  | P    | 0.2  |

$$y = 0.0172 * x + 4.7715E-004$$

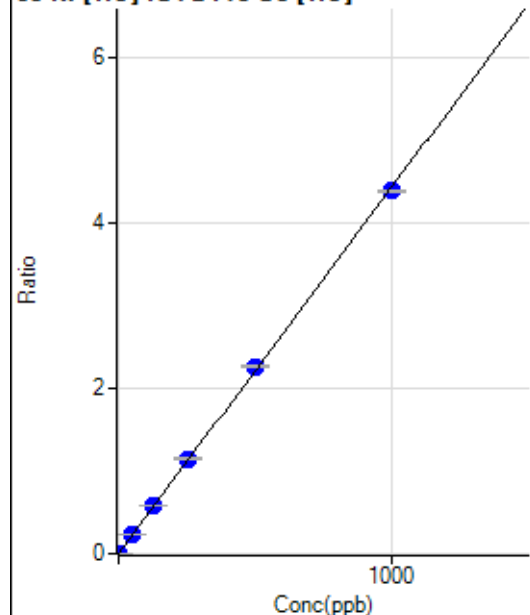
$$R = 0.9999$$

$$DL = 0.01082$$

$$BEC = 0.0278$$

Weight: &lt;None&gt;

Min Conc: 0

**60 Ni [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      | 53.33     | 0.0003 | P    | 27.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.020      | 933.38    | 0.0048 | P    | 9.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.743     | 43698.41  | 0.2338 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.660    | 101014.75 | 0.5789 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 259.680    | 189432.12 | 1.1502 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 511.859    | 375033.12 | 2.2669 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.806    | 758218.65 | 4.3878 | P    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 18472.94  | 0.1037 | P    | 0.1  |

$$y = 0.0044 * x + 2.8673E-004$$

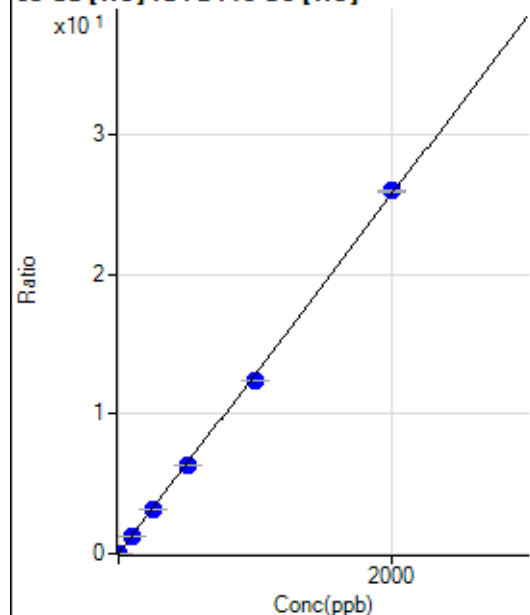
$$R = 0.9998$$

$$DL = 0.05353$$

$$BEC = 0.06475$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>63</sup>Cu [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      | 327.79     | 0.0018  | P    | 8.0 |
| 2 | <input type="checkbox"/> | 2.000    | 1.873      | 5012.05    | 0.0258  | P    | 4.4 |
| 3 | <input type="checkbox"/> | 100.000  | 98.678     | 236981.03  | 1.2682  | P    | 1.2 |
| 4 | <input type="checkbox"/> | 250.000  | 246.752    | 552921.42  | 3.1686  | P    | 0.2 |
| 5 | <input type="checkbox"/> | 500.000  | 488.575    | 1032982.92 | 6.2722  | P    | 0.4 |
| 6 | <input type="checkbox"/> | 1000.000 | 965.251    | 2049739.21 | 12.3898 | P    | 0.2 |
| 7 | <input type="checkbox"/> | 2000.000 | 2020.703   | 4481617.71 | 25.9355 | P    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 6694.97    | 0.0376  | P    | 1.8 |

$$y = 0.0128 * x + 0.0018$$

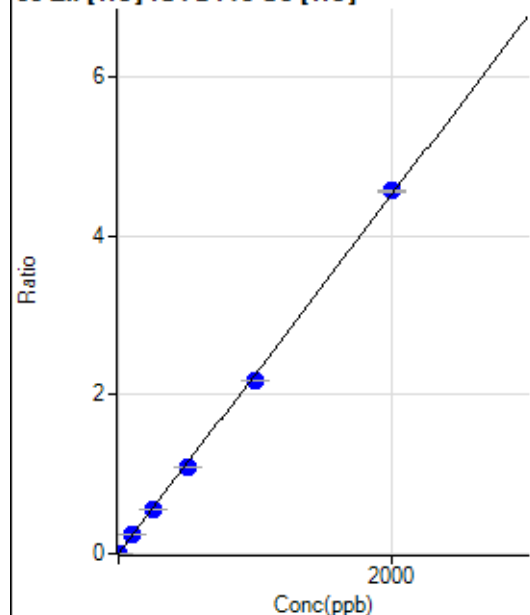
$$R = 0.9998$$

$$DL = 0.03295$$

$$BEC = 0.1373$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>66</sup>Zn [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      | 245.56    | 0.0013 | P    | 4.4 |
| 2 | <input type="checkbox"/> | 2.000    | 2.031      | 1145.62   | 0.0059 | P    | 9.1 |
| 3 | <input type="checkbox"/> | 100.000  | 104.896    | 44434.20  | 0.2378 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 250.000  | 244.017    | 96221.97  | 0.5514 | P    | 0.1 |
| 5 | <input type="checkbox"/> | 500.000  | 481.643    | 179039.22 | 1.0871 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 1000.000 | 964.999    | 360118.92 | 2.1767 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 2000.000 | 2022.593   | 788114.75 | 4.5609 | P    | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 14042.46  | 0.0788 | P    | 1.9 |

$$y = 0.0023 * x + 0.0013$$

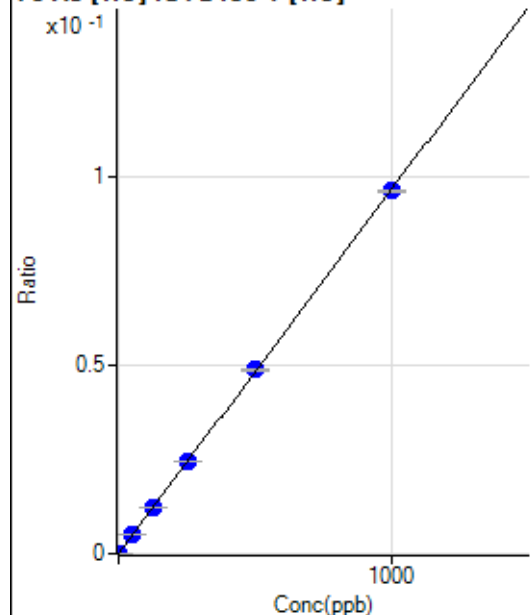
$$R = 0.9997$$

$$DL = 0.07699$$

$$BEC = 0.5851$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 7.41      | 0.0000 | P   | 24.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.010      | 244.45    | 0.0001 | P   | 10.3 |
| 3 | <input type="checkbox"/> | 50.000   | 52.107     | 11801.77  | 0.0050 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 128.428    | 27636.74  | 0.0124 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 253.210    | 51602.75  | 0.0245 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 504.734    | 103534.12 | 0.0488 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.297    | 210705.59 | 0.0964 | P   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 303.09    | 0.0001 | P   | 12.2 |

$$y = 9.6720\text{E-}005 * x + 3.1493\text{E-}006$$

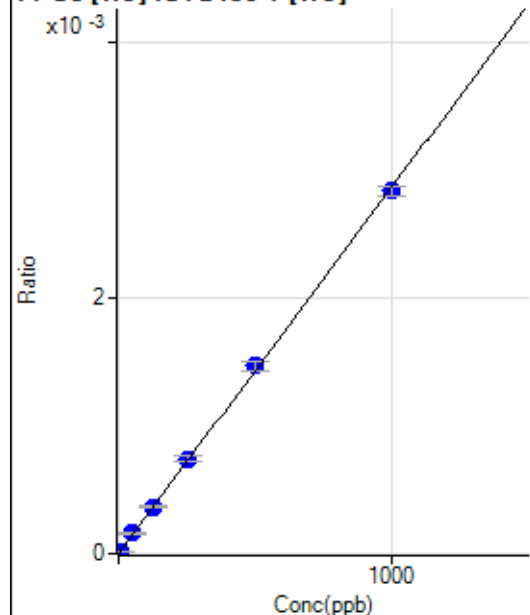
$$R = 1.0000$$

$$DL = 0.02429$$

$$BEC = 0.03256$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P   |      |
| 2 | <input type="checkbox"/> | 5.000    | 4.957      | 34.45   | 0.0000 | P   | 38.8 |
| 3 | <input type="checkbox"/> | 50.000   | 56.309     | 377.79  | 0.0002 | P   | 10.8 |
| 4 | <input type="checkbox"/> | 125.000  | 128.258    | 817.81  | 0.0004 | P   | 6.4  |
| 5 | <input type="checkbox"/> | 250.000  | 259.456    | 1566.78 | 0.0007 | P   | 4.6  |
| 6 | <input type="checkbox"/> | 500.000  | 512.295    | 3113.73 | 0.0015 | P   | 5.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.766    | 6210.31 | 0.0028 | P   | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 4.44    | 0.0000 | P   | 43.1 |

$$y = 2.8665\text{E-}006 * x + 0.0000\text{E+}000$$

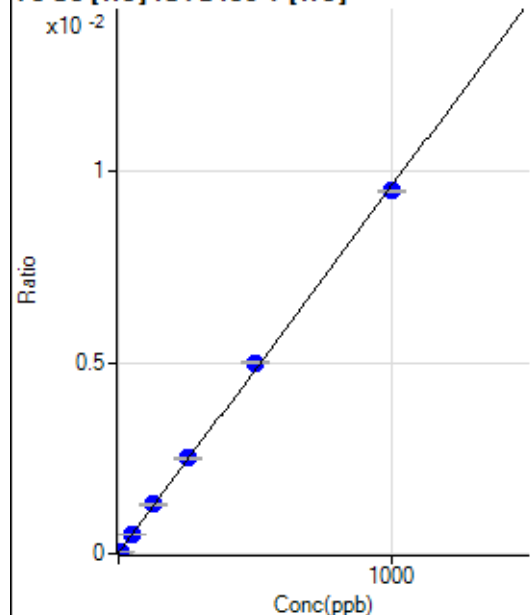
$$R = 0.9998$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 45.06    | 0.0000 | P        | 30.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.955      | 161.73   | 0.0001 | P        | 6.3  |
| 3 | <input type="checkbox"/> | 50.000   | 51.016     | 1190.80  | 0.0005 | P        | 4.0  |
| 4 | <input type="checkbox"/> | 125.000  | 132.495    | 2871.30  | 0.0013 | P        | 3.5  |
| 5 | <input type="checkbox"/> | 250.000  | 258.899    | 5275.71  | 0.0025 | P        | 2.0  |
| 6 | <input type="checkbox"/> | 500.000  | 518.608    | 10596.54 | 0.0050 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.484    | 20766.79 | 0.0095 | P        | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 46.30    | 0.0000 | P        | 14.5 |

$$y = 9.5982\text{E-}006 * x + 1.9193\text{E-}005$$

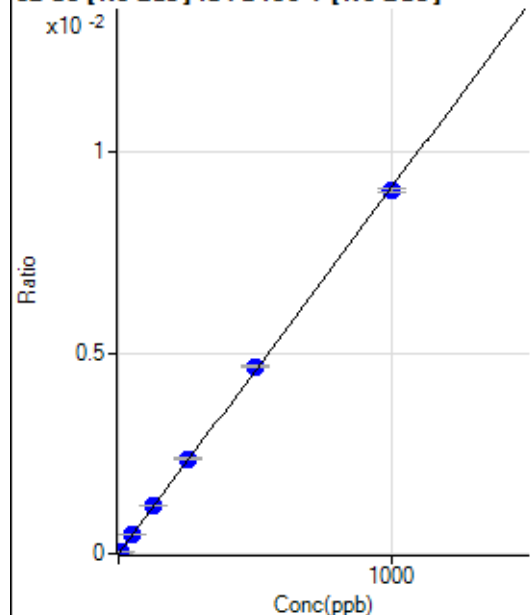
$$R = 0.9997$$

$$DL = 1.825$$

$$BEC = 2$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -43.30    | 0.0000 | P        | -71. |
| 2 | <input type="checkbox"/> | 5.000    | 5.569      | 791.80    | 0.0000 | P        | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 53.073     | 7834.04   | 0.0005 | P        | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 132.202    | 18717.60  | 0.0012 | P        | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 259.138    | 35496.38  | 0.0024 | P        | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 510.817    | 69246.28  | 0.0047 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.250    | 138353.17 | 0.0090 | P        | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 111.77    | 0.0000 | P        | 21.1 |

$$y = 9.1267\text{E-}006 * x - 2.6754\text{E-}006$$

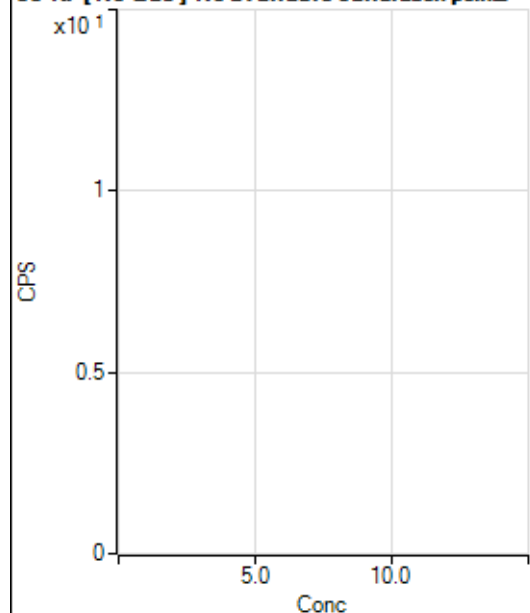
$$R = 0.9999$$

$$DL = 0.6296$$

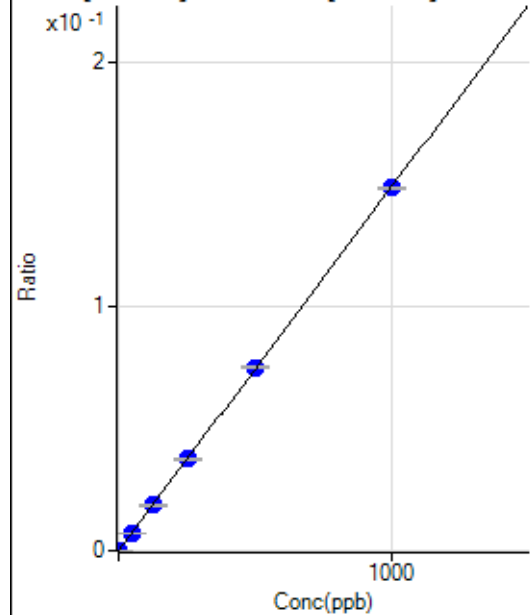
$$BEC = -0.2931$$

Weight: &lt;None&gt;

Min Conc: 0

**83 Kr [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 240.01 |       | P        | 18.1 |
| 2 | <input type="checkbox"/> |       |            | 188.90 |       | P        | 12.5 |
| 3 | <input type="checkbox"/> |       |            | 215.56 |       | P        | 2.4  |
| 4 | <input type="checkbox"/> |       |            | 198.89 |       | P        | 12.1 |
| 5 | <input type="checkbox"/> |       |            | 170.00 |       | P        | 10.9 |
| 6 | <input type="checkbox"/> |       |            | 211.12 |       | P        | 16.9 |
| 7 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 2.9  |
| 8 | <input type="checkbox"/> |       |            | 224.45 |       | P        | 11.2 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 280.57     | 0.0000 | P        | 19.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.951      | 2614.24    | 0.0002 | P        | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 49.904     | 121124.29  | 0.0074 | P        | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 124.319    | 288053.60  | 0.0185 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 251.492    | 562918.72  | 0.0375 | P        | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 504.434    | 1116513.06 | 0.0751 | P        | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.500    | 2272366.39 | 0.1485 | P        | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 10209.57   | 0.0007 | P        | 3.2  |

$$y = 1.4889\text{E-}004 * x + 1.7350\text{E-}005$$

$$R = 1.0000$$

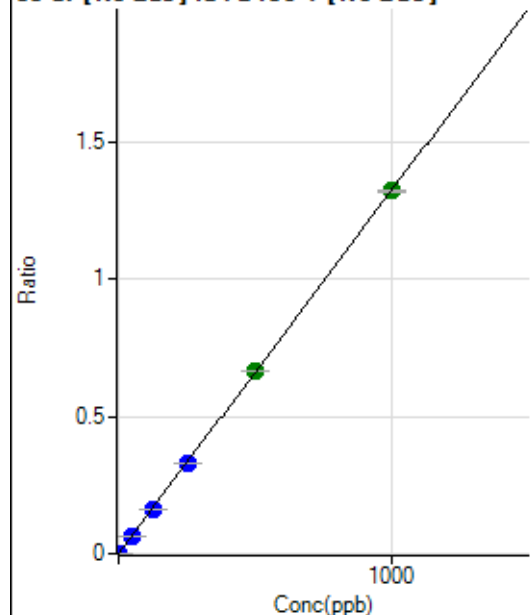
$$DL = 0.0669$$

$$BEC = 0.1165$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.11       | 0.0000 | P    | 15.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.942      | 20526.55    | 0.0012 | P    | 1.2  |
| 3 | <input type="checkbox"/> | 50.000   | 48.661     | 1045371.02  | 0.0643 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 122.653    | 2519058.95  | 0.1620 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 247.176    | 4906182.97  | 0.3265 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 504.098    | 9896252.74  | 0.6659 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.018    | 20187944.03 | 1.3196 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 86223.11    | 0.0056 | P    | 1.3  |

$$y = 0.0013 * x + 3.7811E-006$$

$$R = 1.0000$$

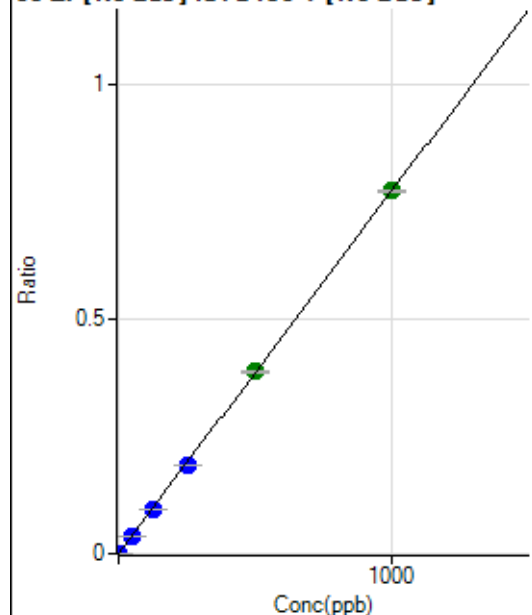
$$DL = 0.001368$$

$$BEC = 0.002862$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 741.72      | 0.0000 | P    | 9.6  |
| 2 | <input type="checkbox"/> | 1.000    | 0.773      | 10571.08    | 0.0006 | P    | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 47.745     | 600062.84   | 0.0369 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 120.938    | 1452089.93  | 0.0934 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 244.955    | 2841690.73  | 0.1891 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 501.764    | 5756537.19  | 0.3873 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.000   | 11819805.82 | 0.7727 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 4386.98     | 0.0003 | P    | 11.7 |

$$y = 7.7184E-004 * x + 4.5882E-005$$

$$R = 1.0000$$

$$DL = 0.01717$$

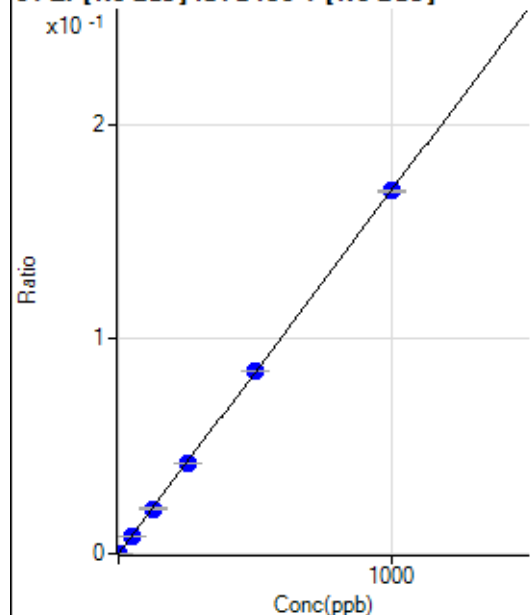
$$BEC = 0.05944$$

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      | 172.23     | 0.0000 | P    | 10.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.784      | 2355.85    | 0.0001 | P    | 7.9  |
| 3 | <input type="checkbox"/> | 50.000   | 48.953     | 134897.25  | 0.0083 | P    | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 124.215    | 326991.44  | 0.0210 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 249.740    | 635218.18  | 0.0423 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 502.666    | 1264415.31 | 0.0851 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.883    | 2586069.61 | 0.1690 | P    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 1044.53    | 0.0001 | P    | 8.8  |

$$y = 1.6923E-004 * x + 1.0656E-005$$

$$R = 1.0000$$

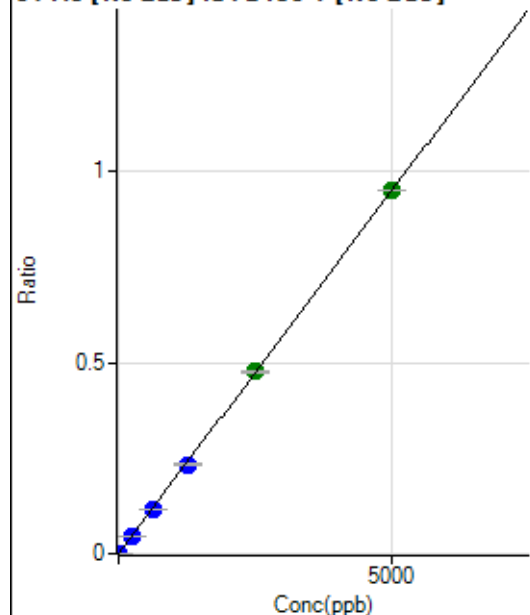
$$DL = 0.0196$$

$$BEC = 0.06297$$

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      | 341.69      | 0.0000 | P    | 19.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.614      | 14735.99    | 0.0009 | P    | 1.1  |
| 3 | <input type="checkbox"/> | 250.000  | 242.960    | 749613.05   | 0.0461 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 615.246    | 1814221.83  | 0.1167 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1232.387   | 3511838.53  | 0.2337 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2507.093   | 7066096.16  | 0.4754 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5002.428   | 14512391.47 | 0.9486 | A    | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 10543.19    | 0.0007 | P    | 2.2  |

$$y = 1.8963E-004 * x + 2.1131E-005$$

$$R = 1.0000$$

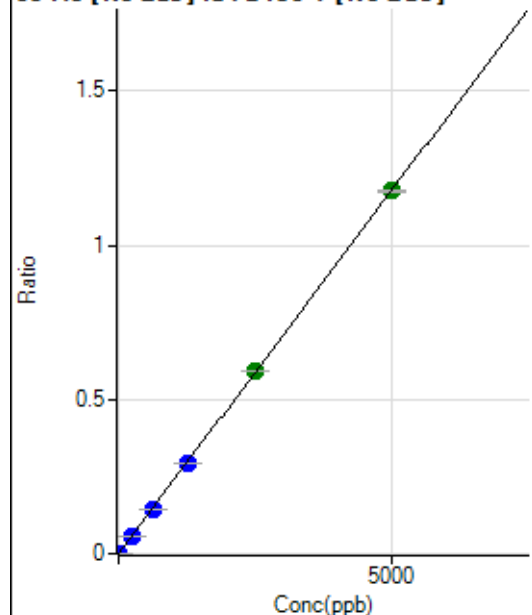
$$DL = 0.06625$$

$$BEC = 0.1114$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78       | 0.0000 | P   | 24.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.677      | 18156.80    | 0.0011 | P   | 1.7  |
| 3 | <input type="checkbox"/> | 250.000  | 243.215    | 931030.78   | 0.0572 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 625.000  | 612.633    | 2241855.48  | 0.1442 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1238.184   | 4379049.49  | 0.2914 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2515.273   | 8798683.27  | 0.5920 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4997.203   | 17993493.11 | 1.1762 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 15639.77    | 0.0010 | P   | 4.9  |

$$y = 2.3537E-004 * x + 3.2639E-006$$

$$R = 1.0000$$

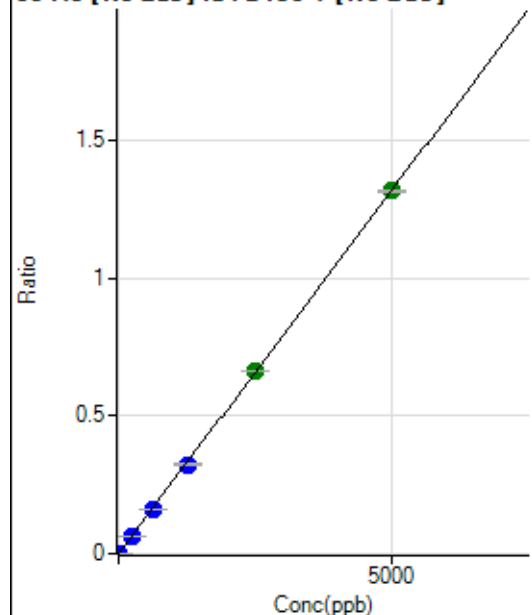
$$DL = 0.009973$$

$$BEC = 0.01387$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 116.67      | 0.0000 | P   | 26.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.639      | 20206.76    | 0.0012 | P   | 2.5  |
| 3 | <input type="checkbox"/> | 250.000  | 241.185    | 1032980.26  | 0.0635 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 612.824    | 2509093.98  | 0.1614 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1231.095   | 4871349.76  | 0.3242 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2514.695   | 9841551.69  | 0.6622 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4999.342   | 20139573.02 | 1.3165 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 22935.89    | 0.0015 | P   | 3.1  |

$$y = 2.6333E-004 * x + 7.2202E-006$$

$$R = 1.0000$$

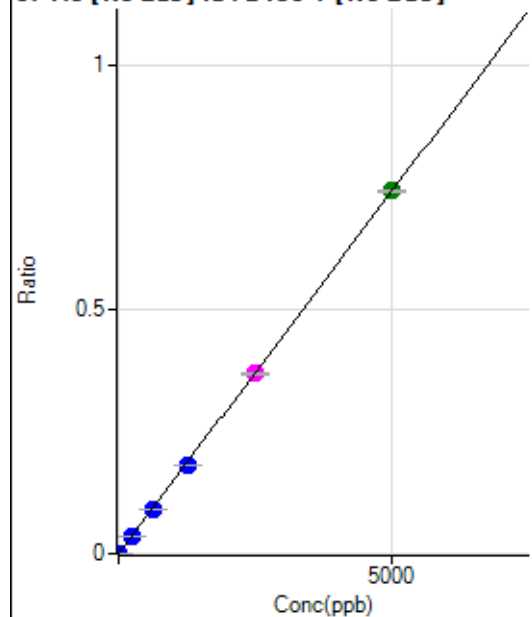
$$DL = 0.02137$$

$$BEC = 0.02742$$

Weight: &lt;None&gt;

Min Conc: 0

97 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      | 27.78       | 0.0000 | P    | 34.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.601      | 11229.85    | 0.0007 | P    | 1.7  |
| 3 | <input type="checkbox"/> | 250.000  | 240.737    | 579692.95   | 0.0356 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 625.000  | 611.022    | 1406575.46  | 0.0905 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1228.011   | 2732067.20  | 0.1818 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2488.349   | 5475589.10  | 0.3684 | M    | 1.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 5013.534   | 11355617.44 | 0.7423 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 10117.85    | 0.0007 | P    | 3.6  |

$$y = 1.4806\text{E-}004 * x + 1.7171\text{E-}006$$

$$R = 1.0000$$

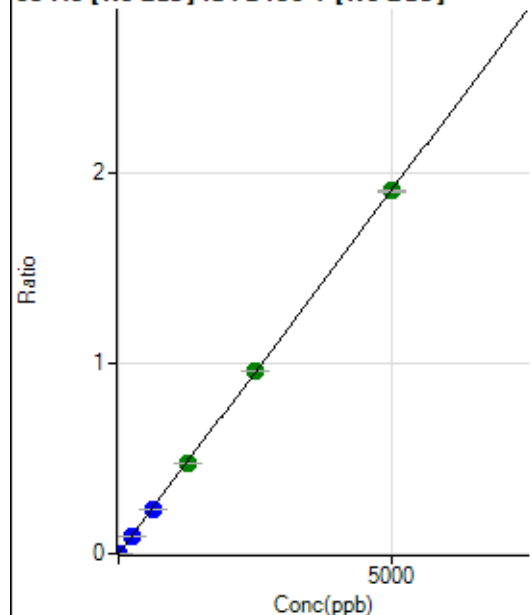
$$DL = 0.01198$$

$$BEC = 0.0116$$

Weight: &lt;None&gt;

Min Conc: 0

98 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      | 61.11       | 0.0000 | P    | 41.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.672      | 29350.69    | 0.0018 | P    | 1.1  |
| 3 | <input type="checkbox"/> | 250.000  | 241.658    | 1498208.55  | 0.0921 | P    | 0.4  |
| 4 | <input type="checkbox"/> | 625.000  | 611.682    | 3625461.93  | 0.2332 | P    | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1239.237   | 7098377.33  | 0.4724 | A    | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2519.902   | 14276302.58 | 0.9606 | A    | 0.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 4994.822   | 29127940.93 | 1.9040 | A    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 24931.05    | 0.0016 | P    | 2.6  |

$$y = 3.8120\text{E-}004 * x + 3.7815\text{E-}006$$

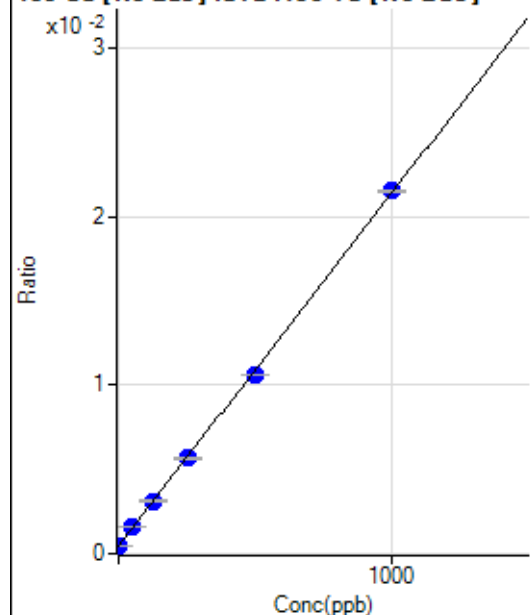
$$R = 1.0000$$

$$DL = 0.01241$$

$$BEC = 0.00992$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4884.40   | 0.0005 | P    | 2.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.782      | 5306.80   | 0.0005 | P    | 5.7 |
| 3 | <input type="checkbox"/> | 50.000   | 53.908     | 16924.68  | 0.0016 | P    | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 127.171    | 32872.37  | 0.0031 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 250.000  | 248.200    | 58881.58  | 0.0057 | P    | 2.0 |
| 6 | <input type="checkbox"/> | 500.000  | 485.916    | 112309.15 | 0.0106 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1007.024   | 233682.71 | 0.0215 | P    | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 5217.86   | 0.0005 | P    | 6.8 |

$$y = 2.0915\text{E-}005 * x + 4.6005\text{E-}004$$

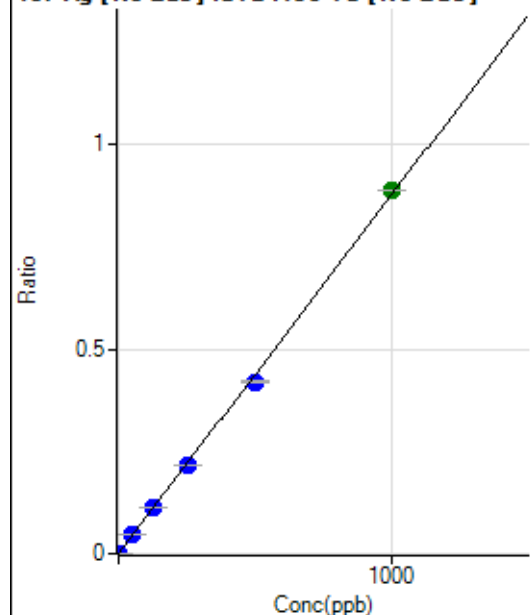
$$R = 0.9998$$

$$DL = 1.884$$

$$BEC = 22$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 119.45     | 0.0000 | P    | 28.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.055      | 9995.58    | 0.0009 | P    | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.113     | 487581.45  | 0.0457 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 126.360    | 1168261.44 | 0.1109 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 247.387    | 2261764.16 | 0.2171 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 478.203    | 4435800.10 | 0.4196 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1011.276   | 9634393.44 | 0.8873 | A    | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 1411.25    | 0.0001 | P    | 22.5 |

$$y = 8.7738\text{E-}004 * x + 1.1248\text{E-}005$$

$$R = 0.9996$$

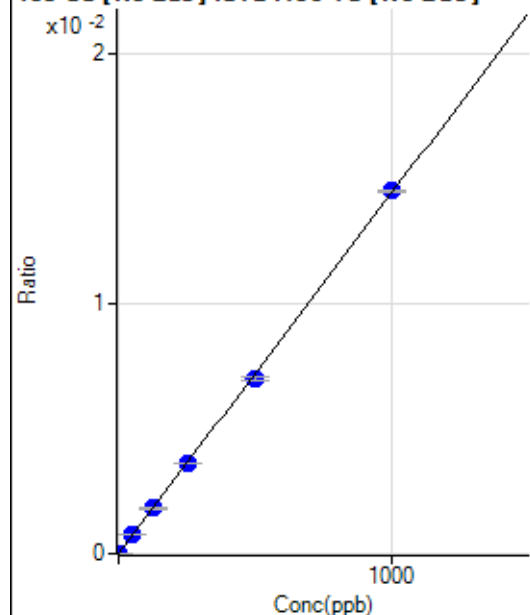
$$DL = 0.01111$$

$$BEC = 0.01282$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11     | 0.0000 | P   | 21.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.091      | 179.17    | 0.0000 | P   | 16.8 |
| 3 | <input type="checkbox"/> | 50.000   | 51.241     | 7896.80   | 0.0007 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 125.820    | 19147.86  | 0.0018 | P   | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 249.974    | 37608.38  | 0.0036 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 486.218    | 74204.08  | 0.0070 | P   | 2.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.733   | 157799.95 | 0.0145 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 50.00     | 0.0000 | P   | 14.2 |

$$y = 1.4435\text{E-}005 * x + 1.0467\text{E-}006$$

$$R = 0.9999$$

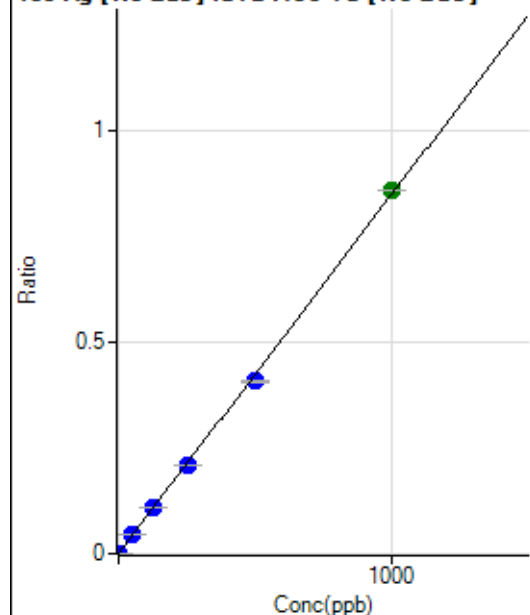
$$DL = 0.04736$$

$$BEC = 0.07251$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.23      | 0.0000 | P   | 43.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.061      | 9662.05    | 0.0009 | P   | 2.6  |
| 3 | <input type="checkbox"/> | 50.000   | 52.038     | 469900.52  | 0.0441 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 126.624    | 1129955.16 | 0.1072 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 247.420    | 2183365.59 | 0.2095 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 479.887    | 4296522.97 | 0.4064 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.396   | 9291230.59 | 0.8557 | A   | 0.0  |
| 8 | <input type="checkbox"/> |          |            | 1275.12    | 0.0001 | P   | 17.7 |

$$y = 8.4687\text{E-}004 * x + 6.8012\text{E-}006$$

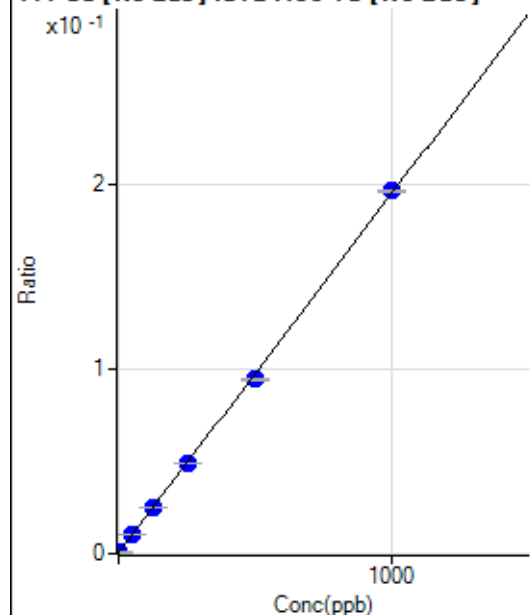
$$R = 0.9997$$

$$DL = 0.01049$$

$$BEC = 0.008031$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3425.19    | 0.0003 | P    | 2.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.045      | 5606.19    | 0.0005 | P    | 4.5 |
| 3 | <input type="checkbox"/> | 50.000   | 52.032     | 111105.49  | 0.0104 | P    | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 125.915    | 260906.42  | 0.0248 | P    | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 248.507    | 505944.71  | 0.0486 | P    | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 483.762    | 996097.95  | 0.0942 | P    | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1008.276   | 2128502.00 | 0.1960 | P    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 4074.46    | 0.0004 | P    | 5.2 |

$$y = 1.9409\text{E-}004 * x + 3.2261\text{E-}004$$

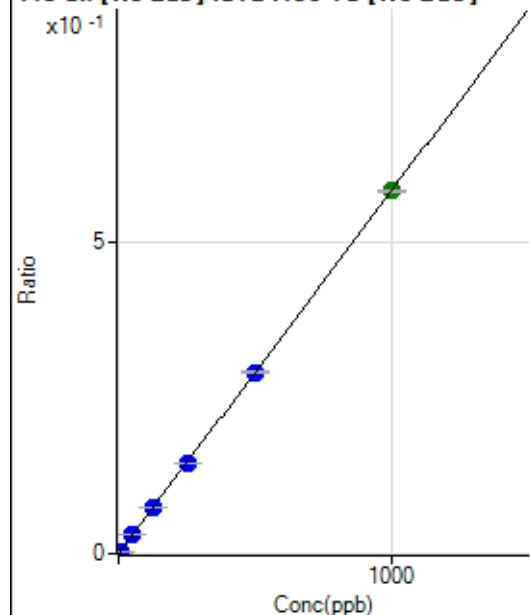
$$R = 0.9998$$

$$DL = 0.145$$

$$BEC = 1.662$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 958.42     | 0.0001 | P    | 11.1 |
| 2 | <input type="checkbox"/> | 5.000    | 5.014      | 32204.28   | 0.0030 | P    | 0.2  |
| 3 | <input type="checkbox"/> | 50.000   | 50.766     | 316955.65  | 0.0297 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 126.410    | 778600.09  | 0.0739 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 250.727    | 1526294.87 | 0.1465 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 499.603    | 3084858.44 | 0.2918 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.802    | 6339488.94 | 0.5838 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 3920.16    | 0.0004 | P    | 6.5  |

$$y = 5.8386\text{E-}004 * x + 9.0280\text{E-}005$$

$$R = 1.0000$$

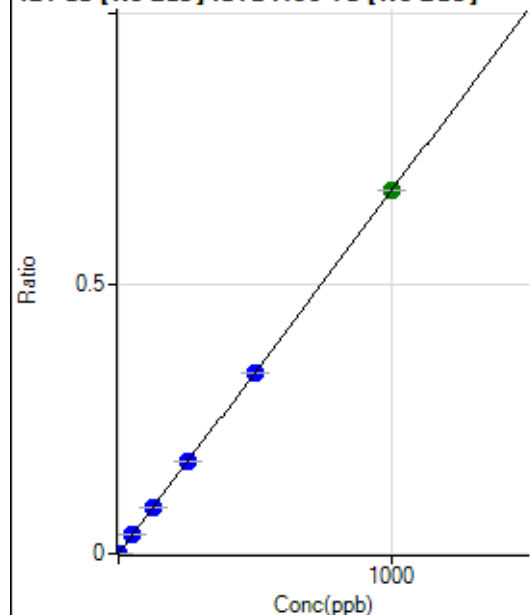
$$DL = 0.05163$$

$$BEC = 0.1546$$

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 | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 163.90     | 0.0000 | P   | 36.1 |
| 2 | <input type="checkbox"/> | 2.000    | 1.928      | 13993.67   | 0.0013 | P   | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.795     | 364069.83  | 0.0341 | P   | 0.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.109    | 893065.95  | 0.0848 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 252.889    | 1770875.65 | 0.1700 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 498.754    | 3543475.99 | 0.3352 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.722    | 7294804.85 | 0.6718 | A   | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 11633.04   | 0.0011 | P   | 2.1  |

$$y = 6.7199\text{E-}004 * x + 1.5439\text{E-}005$$

$$R = 1.0000$$

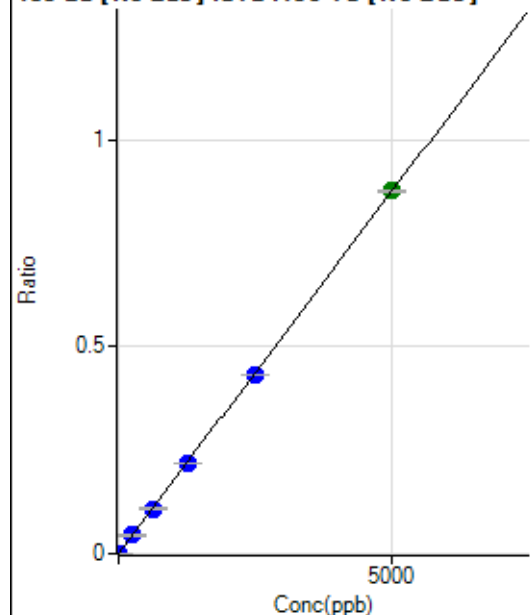
$$DL = 0.02485$$

$$BEC = 0.02298$$

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 | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P   | 33.5 |
| 2 | <input type="checkbox"/> | 10.000   | 10.017     | 18721.61   | 0.0018 | P   | 3.1  |
| 3 | <input type="checkbox"/> | 250.000  | 253.109    | 472016.95  | 0.0443 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 625.000  | 623.699    | 1149487.75 | 0.1091 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1251.891   | 2281655.35 | 0.2190 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2473.077   | 4573335.17 | 0.4326 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 5012.996   | 9521000.65 | 0.8768 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 2511.46    | 0.0002 | P   | 8.0  |

$$y = 1.7491\text{E-}004 * x + 2.3560\text{E-}006$$

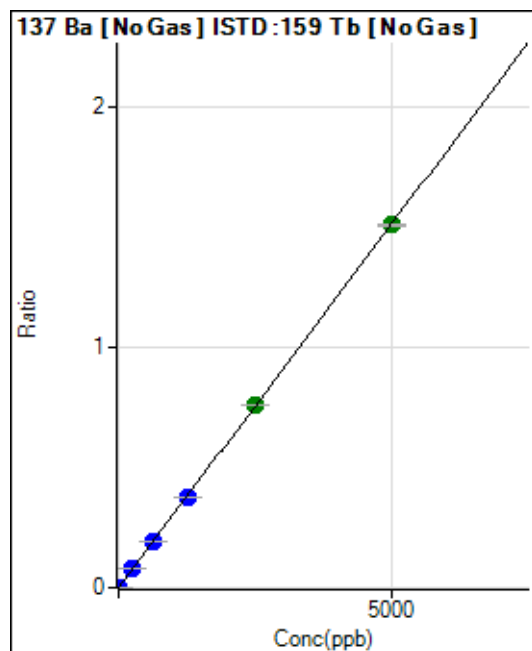
$$R = 1.0000$$

$$DL = 0.01356$$

$$BEC = 0.01347$$

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      | 33.34       | 0.0000 | P   | 43.4 |
| 2 | <input type="checkbox"/> | 10.000   | 10.121     | 32683.75    | 0.0031 | P   | 2.5  |
| 3 | <input type="checkbox"/> | 250.000  | 252.884    | 815088.60   | 0.0765 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 625.000  | 627.414    | 1998574.66  | 0.1897 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1250.927   | 3940519.58  | 0.3782 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2519.990   | 8054596.97  | 0.7618 | A   | 0.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 4989.327   | 16377967.73 | 1.5084 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 4131.35     | 0.0004 | P   | 12.1 |

$$y = 3.0232E-004 * x + 3.1413E-006$$

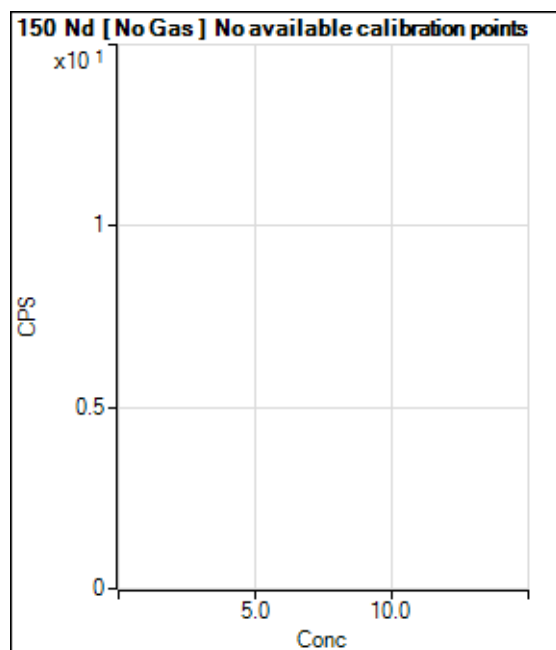
$$R = 1.0000$$

$$DL = 0.01352$$

$$BEC = 0.01039$$

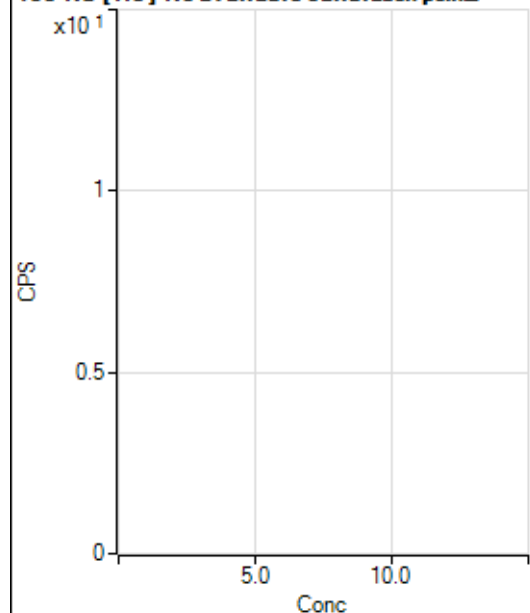
Weight: <None>

Min Conc: 0

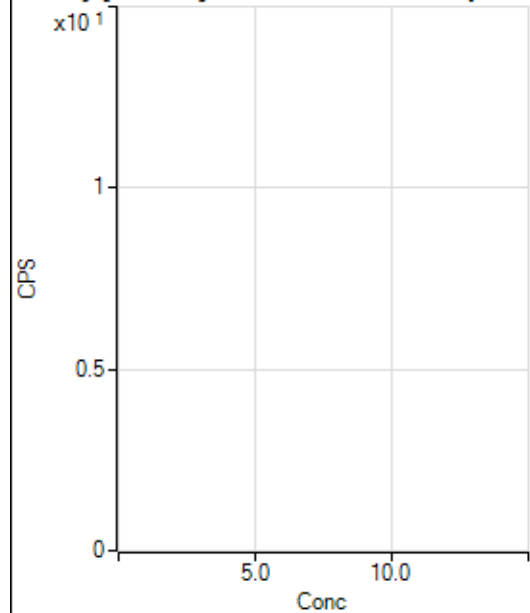


|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P   | 0.0  |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P   | 43.3 |
| 3 | <input type="checkbox"/> |       |            | 33.33  |       | P   | 20.0 |
| 4 | <input type="checkbox"/> |       |            | 84.45  |       | P   | 35.6 |
| 5 | <input type="checkbox"/> |       |            | 182.23 |       | P   | 18.4 |
| 6 | <input type="checkbox"/> |       |            | 373.35 |       | P   | 9.9  |
| 7 | <input type="checkbox"/> |       |            | 840.06 |       | P   | 13.8 |
| 8 | <input type="checkbox"/> |       |            | 128.89 |       | P   | 43.1 |

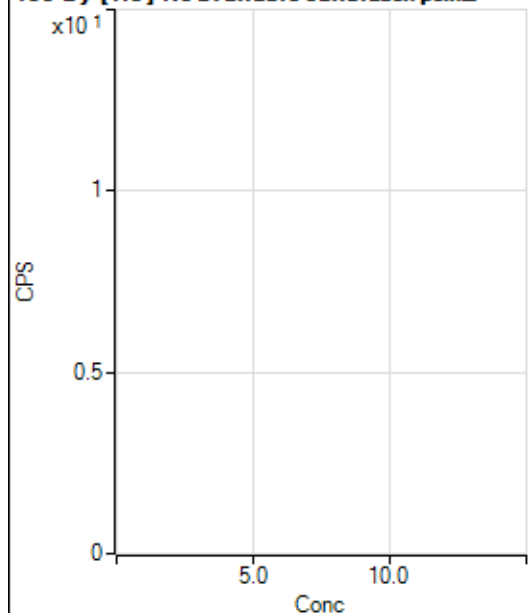


**150 Nd [He] No available calibration points**

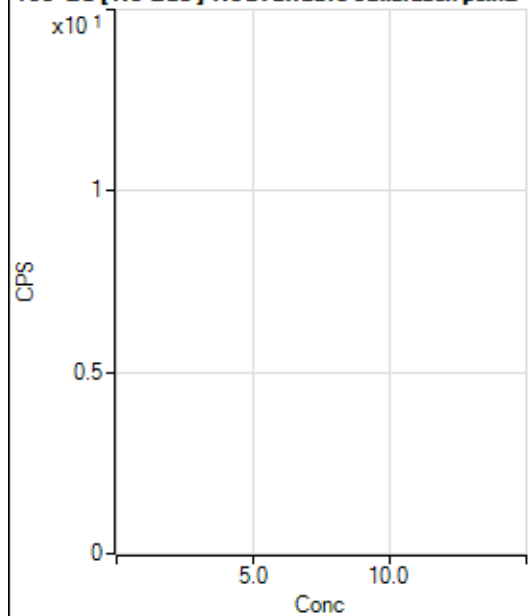
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4 |
| 3 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 107. |
| 4 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 28.6 |
| 5 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 34.7 |
| 6 | <input type="checkbox"/> |       |            | 37.78 |       | P        | 27.0 |
| 7 | <input type="checkbox"/> |       |            | 76.67 |       | P        | 26.4 |
| 8 | <input type="checkbox"/> |       |            | 55.56 |       | P        | 45.8 |

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

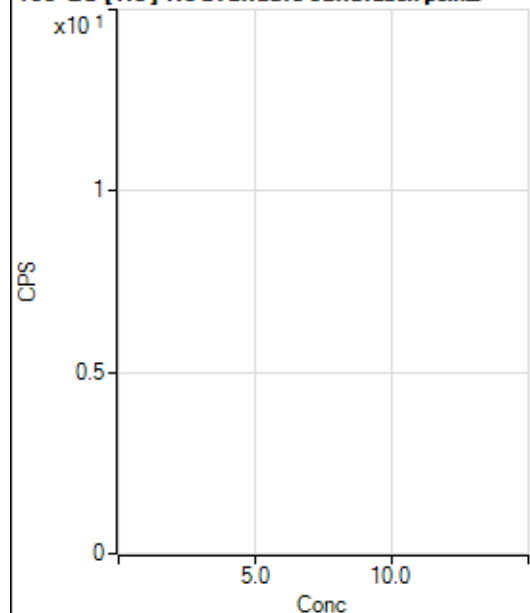
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            | 25.00  |       | P        | 66.7 |
| 3 | <input type="checkbox"/> |       |            | 30.56  |       | P        | 56.8 |
| 4 | <input type="checkbox"/> |       |            | 58.33  |       | P        | 24.7 |
| 5 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 28.4 |
| 6 | <input type="checkbox"/> |       |            | 138.90 |       | P        | 9.2  |
| 7 | <input type="checkbox"/> |       |            | 163.90 |       | P        | 24.0 |
| 8 | <input type="checkbox"/> |       |            | 100.01 |       | P        | 46.4 |

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

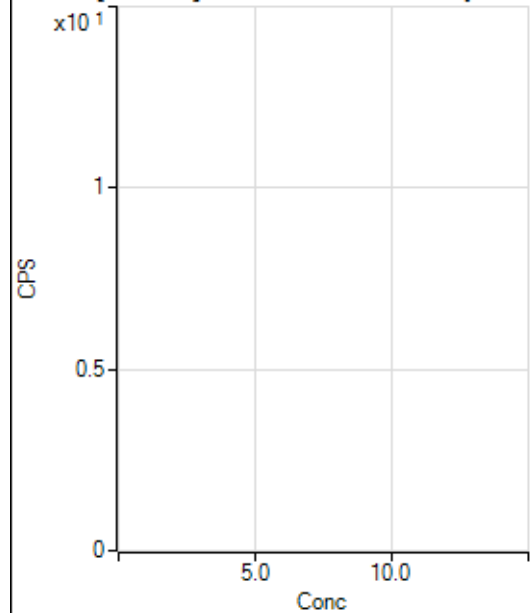
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.33  |       | P        | 75.0 |
| 2 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 28.6 |
| 3 | <input type="checkbox"/> |       |            | 24.44  |       | P        | 70.0 |
| 4 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 33.3 |
| 5 | <input type="checkbox"/> |       |            | 67.78  |       | P        | 22.7 |
| 6 | <input type="checkbox"/> |       |            | 107.78 |       | P        | 32.2 |
| 7 | <input type="checkbox"/> |       |            | 202.23 |       | P        | 18.2 |
| 8 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 13.3 |

**160 Gd [No Gas] Noavailable calibration poin\_**

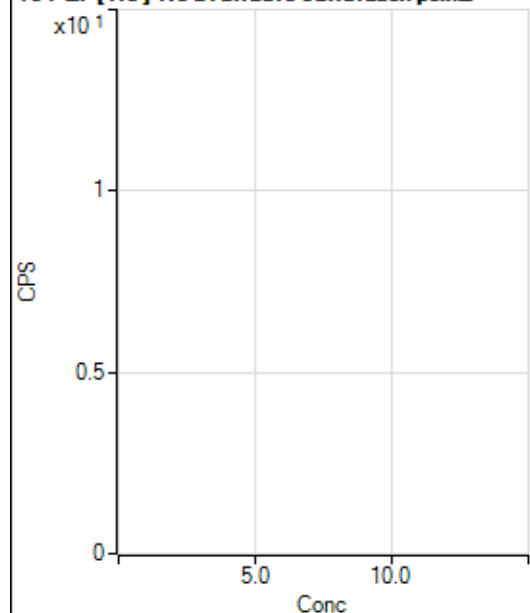
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 58.34 |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 71.0 |
| 3 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 28.7 |
| 4 | <input type="checkbox"/> |       |            | 61.11 |       | P        | 28.4 |
| 5 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 49.5 |
| 6 | <input type="checkbox"/> |       |            | 63.89 |       | P        | 27.2 |
| 7 | <input type="checkbox"/> |       |            | 86.12 |       | P        | 24.4 |
| 8 | <input type="checkbox"/> |       |            | 75.00 |       | P        | 22.2 |

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

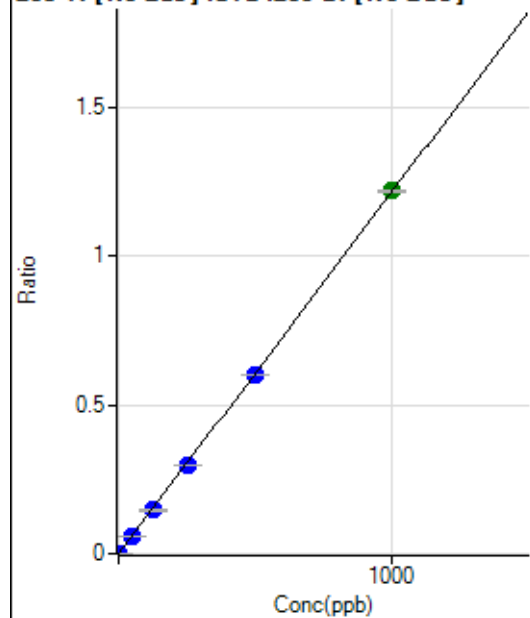
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 195.56 |       | P        | 17.4 |
| 2 | <input type="checkbox"/> |       |            | 215.56 |       | P        | 17.6 |
| 3 | <input type="checkbox"/> |       |            | 207.78 |       | P        | 6.5  |
| 4 | <input type="checkbox"/> |       |            | 150.00 |       | P        | 17.6 |
| 5 | <input type="checkbox"/> |       |            | 198.89 |       | P        | 9.2  |
| 6 | <input type="checkbox"/> |       |            | 156.67 |       | P        | 21.6 |
| 7 | <input type="checkbox"/> |       |            | 181.11 |       | P        | 10.1 |
| 8 | <input type="checkbox"/> |       |            | 208.89 |       | P        | 13.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 52.9 |
| 2 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 96.5 |
| 3 | <input type="checkbox"/> |       |            | 69.45  |       | P        | 13.9 |
| 4 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 53.9 |
| 5 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 67.3 |
| 6 | <input type="checkbox"/> |       |            | 58.33  |       | P        | 24.7 |
| 7 | <input type="checkbox"/> |       |            | 58.34  |       | P        | 14.3 |
| 8 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 32.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 46.67 |       | P        | 18.9 |
| 2 | <input type="checkbox"/> |       |            | 46.67 |       | P        | 18.9 |
| 3 | <input type="checkbox"/> |       |            | 43.33 |       | P        | 15.4 |
| 4 | <input type="checkbox"/> |       |            | 53.34 |       | P        | 10.8 |
| 5 | <input type="checkbox"/> |       |            | 36.67 |       | P        | 24.1 |
| 6 | <input type="checkbox"/> |       |            | 43.33 |       | P        | 27.7 |
| 7 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 19.8 |
| 8 | <input type="checkbox"/> |       |            | 53.34 |       | P        | 53.4 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 413.91     | 0.0001 | P        | 16.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.905      | 8188.99    | 0.0012 | P        | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 47.526     | 405086.78  | 0.0578 | P        | 0.3  |
| 4 | <input type="checkbox"/> | 125.000  | 119.960    | 1012558.18 | 0.1458 | P        | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 244.099    | 2040312.81 | 0.2965 | P        | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 495.329    | 4177344.06 | 0.6017 | P        | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.564   | 8521247.59 | 1.2202 | A        | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 2906.01    | 0.0005 | P        | 6.8  |

$$y = 0.0012 * x + 5.9431E-005$$

$$R = 1.0000$$

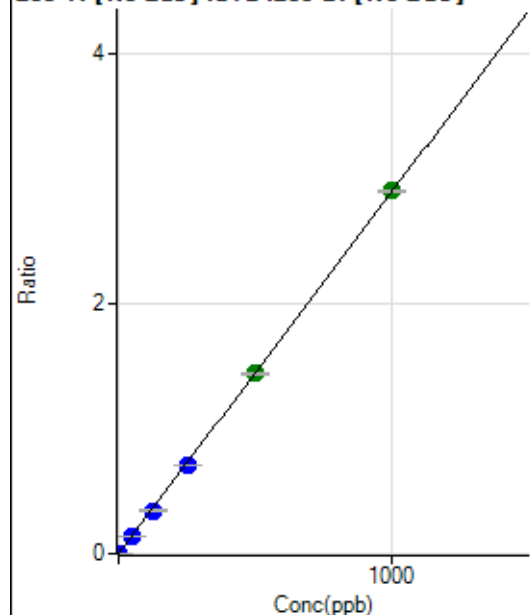
$$DL = 0.02388$$

$$BEC = 0.04893$$

Weight: &lt;None&gt;

Min Conc: 0

205 Tl [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      | 544.48      | 0.0001 | P    | 19.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.905      | 19081.01    | 0.0027 | P    | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 47.562     | 966381.43   | 0.1379 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 119.427    | 2403874.36  | 0.3460 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 243.780    | 4859373.81  | 0.7063 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 497.478    | 10005693.19 | 1.4412 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.635   | 20305133.79 | 2.9075 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 6307.35     | 0.0010 | P    | 8.1  |

$$y = 0.0029 * x + 7.8123E-005$$

$$R = 1.0000$$

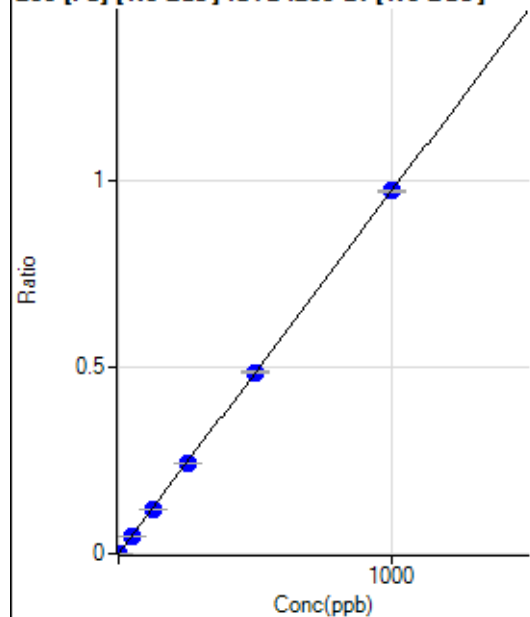
$$DL = 0.01608$$

$$BEC = 0.02697$$

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      | 525.96     | 0.0001 | P    | 8.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.920      | 6837.12    | 0.0010 | P    | 2.2 |
| 3 | <input type="checkbox"/> | 50.000   | 48.340     | 329107.99  | 0.0469 | P    | 0.9 |
| 4 | <input type="checkbox"/> | 125.000  | 121.486    | 818841.60  | 0.1179 | P    | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 247.964    | 1654813.55 | 0.2405 | P    | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 500.180    | 3367655.51 | 0.4851 | P    | 0.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.941   | 6778331.40 | 0.9706 | P    | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 6614.79    | 0.0011 | P    | 4.1 |

$$y = 9.6965E-004 * x + 7.5401E-005$$

$$R = 1.0000$$

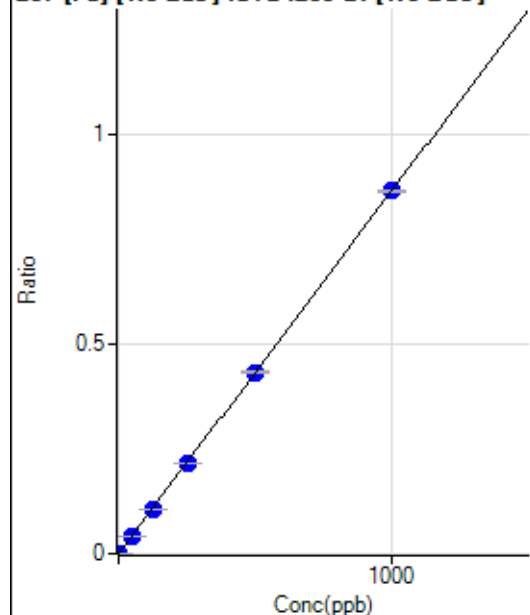
$$DL = 0.01936$$

$$BEC = 0.07776$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 551.88     | 0.0001 | P   | 9.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.925      | 6223.86    | 0.0009 | P   | 3.0 |
| 3 | <input type="checkbox"/> | 50.000   | 48.634     | 295983.35  | 0.0422 | P   | 0.2 |
| 4 | <input type="checkbox"/> | 125.000  | 121.602    | 732516.14  | 0.1054 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 248.222    | 1480441.48 | 0.2152 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 500.494    | 3011602.93 | 0.4338 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.691   | 6056007.49 | 0.8672 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 5679.17    | 0.0009 | P   | 2.6 |

$$y = 8.6652\text{E-}004 * x + 7.9101\text{E-}005$$

$$R = 1.0000$$

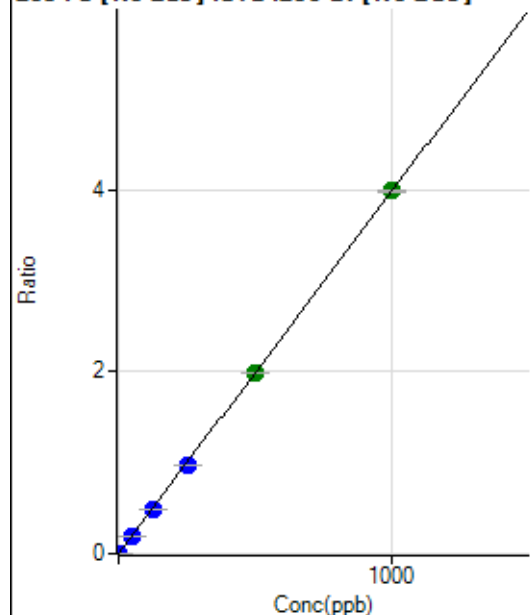
$$DL = 0.02518$$

$$BEC = 0.09129$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1848.26     | 0.0003 | P   | 5.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.913      | 27535.92    | 0.0039 | P   | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 47.780     | 1333701.35  | 0.1903 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 119.875    | 3313060.42  | 0.4769 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 245.195    | 6710040.88  | 0.9752 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 500.179    | 13810034.37 | 1.9891 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.863   | 27822573.02 | 3.9840 | A   | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 25901.25    | 0.0042 | P   | 2.6 |

$$y = 0.0040 * x + 2.6494\text{E-}004$$

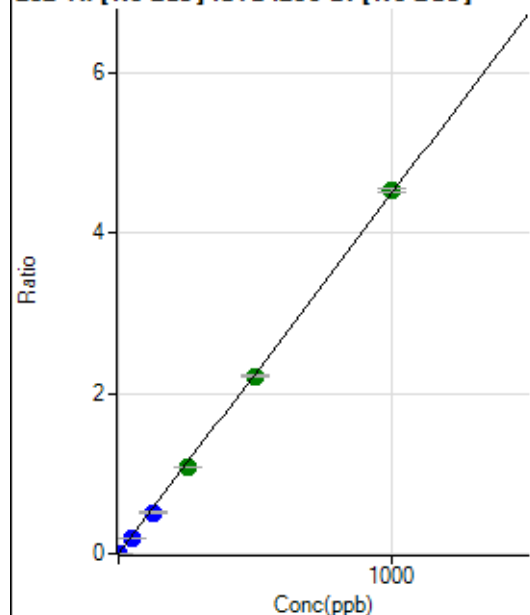
$$R = 1.0000$$

$$DL = 0.01048$$

$$BEC = 0.06663$$

Weight: &lt;None&gt;

Min Conc: 0

**232 Th [No Gas] ISTD :209 Bi [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1674.24     | 0.0002 | P   | 4.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.711      | 24261.88    | 0.0034 | P   | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 44.623     | 1405635.44  | 0.2005 | P   | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 114.512    | 3571855.95  | 0.5142 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 239.226    | 7389038.24  | 1.0739 | A   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 492.901    | 15359966.43 | 2.2124 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1007.823   | 31588890.98 | 4.5235 | A   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 12461.89    | 0.0020 | P   | 8.0 |

$$y = 0.0045 * x + 2.4018E-004$$

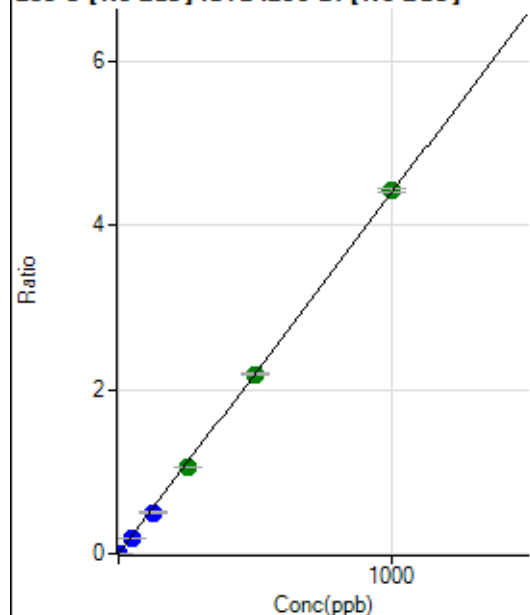
$$R = 0.9999$$

$$DL = 0.007837$$

$$BEC = 0.05352$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1900.23     | 0.0003 | P   | 5.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.827      | 27605.31    | 0.0039 | P   | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 44.667     | 1376816.40  | 0.1964 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 114.507    | 3494683.80  | 0.5031 | P   | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 239.378    | 7233984.89  | 1.0514 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 497.023    | 15152594.26 | 2.1827 | A   | 1.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.722   | 30842002.77 | 4.4164 | A   | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 6393.53     | 0.0010 | P   | 8.9 |

$$y = 0.0044 * x + 2.7256E-004$$

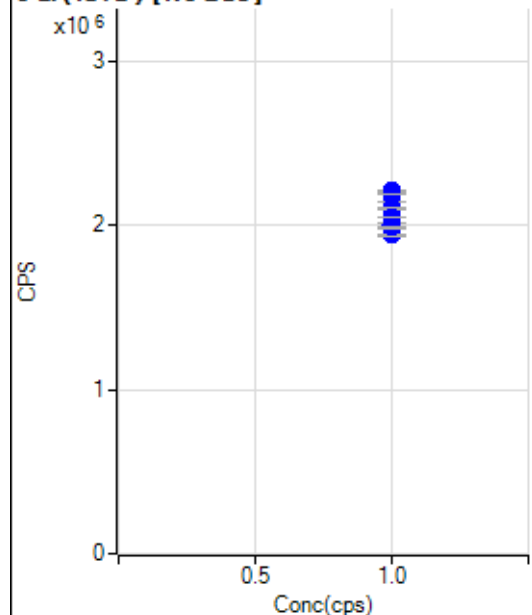
$$R = 0.9999$$

$$DL = 0.009913$$

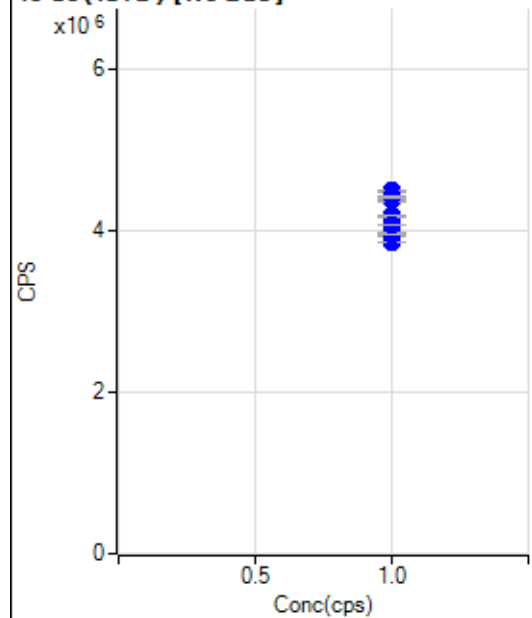
$$BEC = 0.06207$$

Weight: &lt;None&gt;

Min Conc: 0

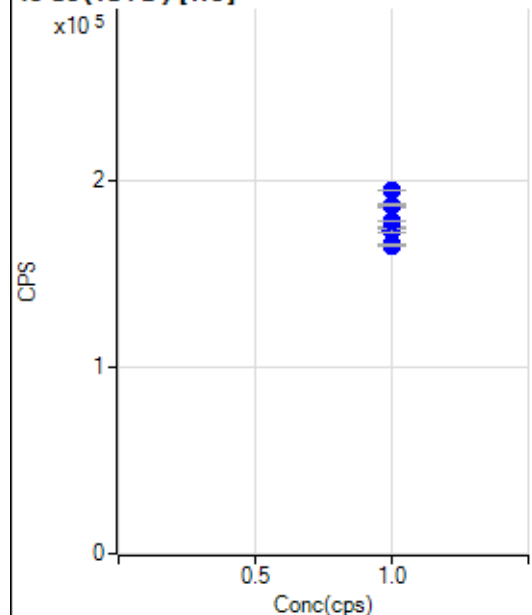
**6 Li (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2143226.74 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2207488.06 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2189453.87 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2102835.23 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1996952.34 |       | P        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1938034.63 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1984236.37 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2042079.19 |       | P        | 0.0 |

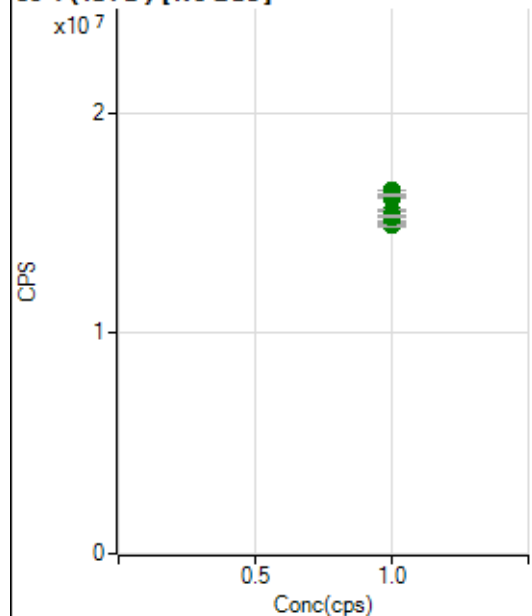
**45 Sc (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4363189.72 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4483908.08 |       | P        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4412258.86 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4176452.13 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3939968.97 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3848503.64 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3952554.43 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4065024.35 |       | P        | 0.0 |

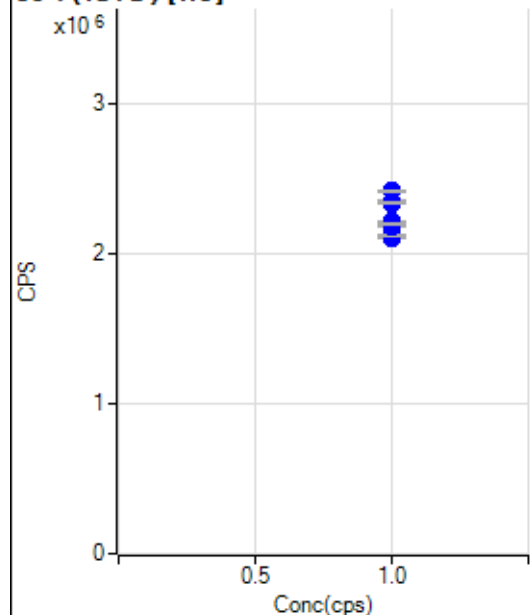


**45 Sc (ISTD) [He]**

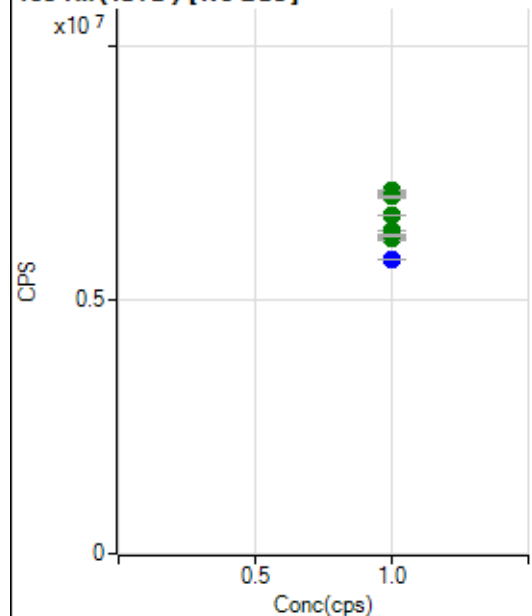
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 186114.64 |       | P        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 194276.31 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 186878.71 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 174500.45 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 164693.66 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 165436.77 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 172805.04 |       | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 178168.75 |       | P        | 0.2 |

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

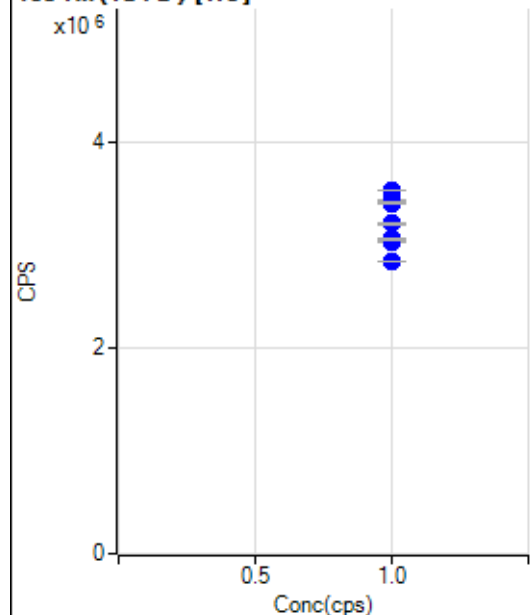
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 16166437.54 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 16444075.03 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 16262943.51 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15548500.74 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15026391.44 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14861963.94 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15298116.72 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15283469.08 |       | A        | 0.8 |

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

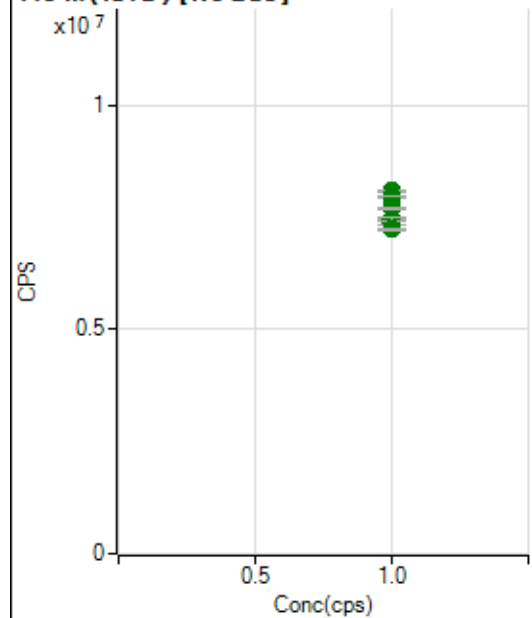
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2353357.69 |       | P        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2422500.08 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2340222.00 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2224312.92 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2106777.21 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2120671.25 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2186566.89 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2199068.92 |       | P        | 0.3 |

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

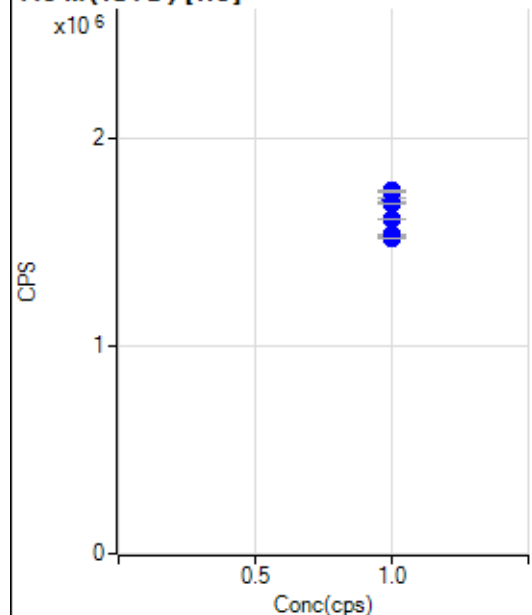
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7069064.66 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7138766.65 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7021475.77 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6658940.42 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6359893.28 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6202611.38 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6271299.79 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5781724.74 |       | P        | 0.3 |

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

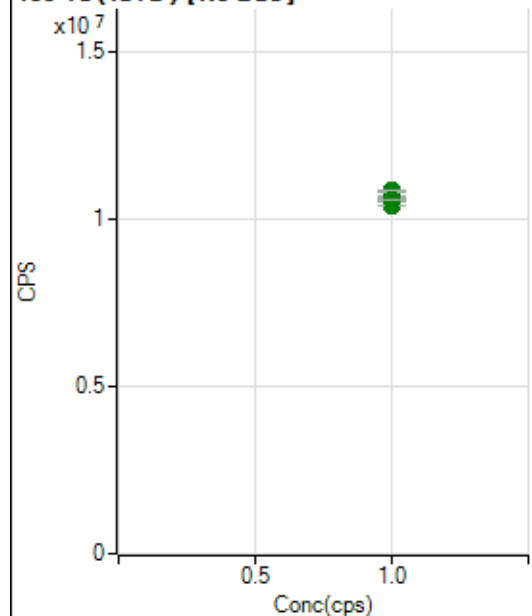
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3437647.21 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3528817.90 |       | P        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3406482.03 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3210318.49 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3038970.20 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3031987.53 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3063317.46 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2846926.24 |       | P        | 0.1 |

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

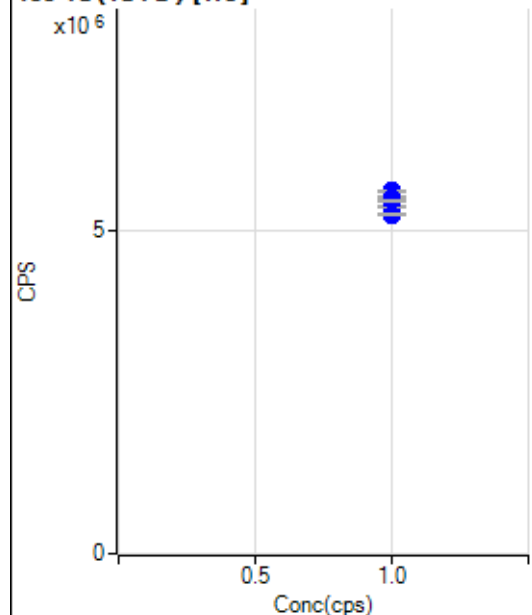
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7935870.28 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8080232.15 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7960859.43 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7690440.95 |       | A        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7465568.36 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7371115.88 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7451432.26 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7226084.87 |       | A        | 0.5 |

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

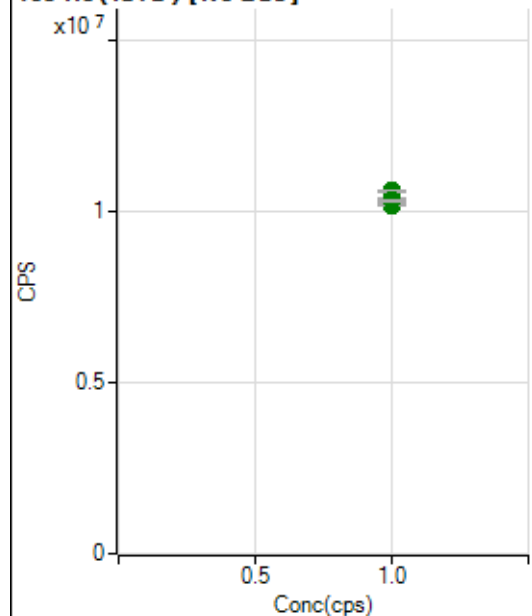
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1701376.86 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1743445.49 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1685036.54 |       | P        | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1603979.74 |       | P        | 0.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1524638.81 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1522102.21 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1529842.11 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1512206.18 |       | P        | 0.1 |

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

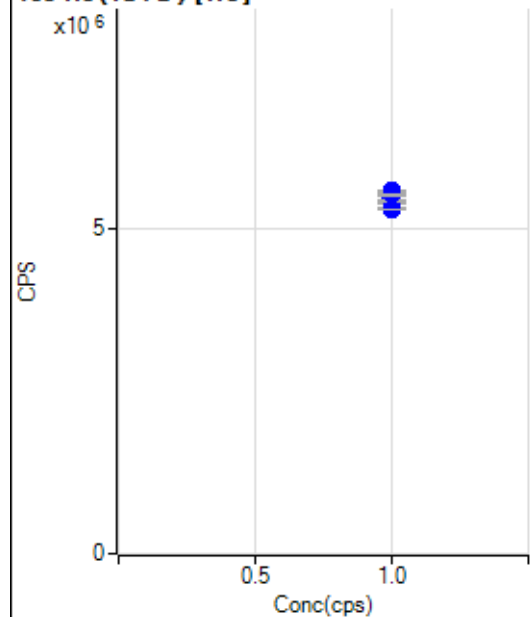
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10616480.12 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10670999.84 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10661120.67 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10536583.04 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10419807.41 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10572585.81 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10858254.35 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10599273.59 |       | A        | 0.3 |

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

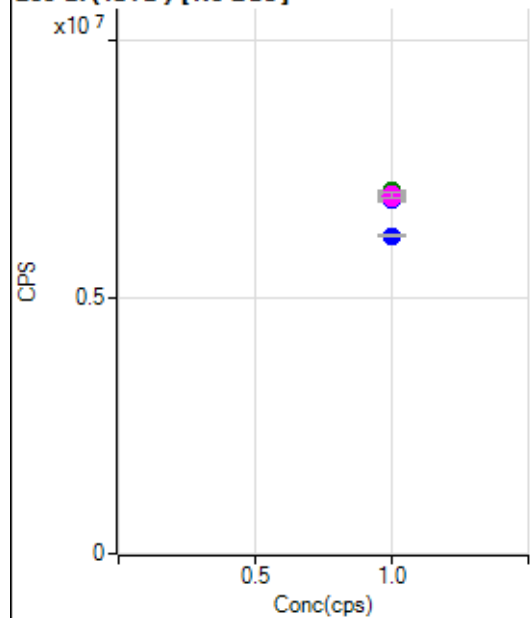
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5479555.41 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5614271.10 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5517443.94 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5384099.05 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5263585.41 |       | P        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5356951.76 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5460682.10 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5248467.77 |       | P        | 0.4 |

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

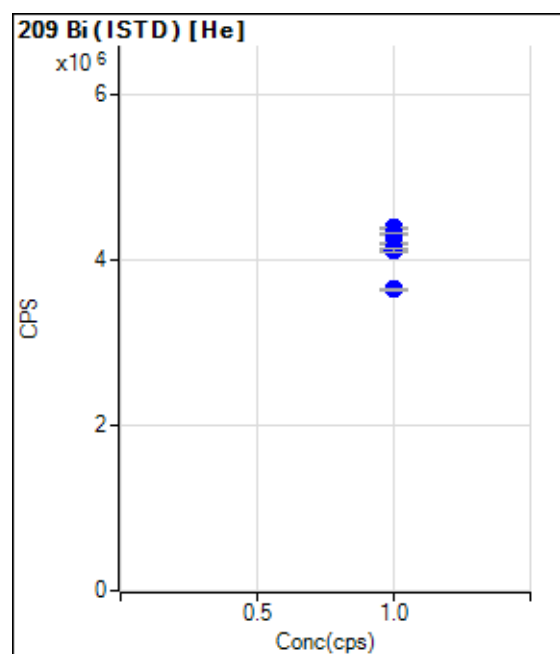
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10167017.67 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10271139.99 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10212993.54 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10174599.36 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10172219.15 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10324023.41 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10598479.58 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10319890.42 |       | A        | 0.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5482058.56 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5586600.99 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5518412.10 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5391792.59 |       | P        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5307642.63 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5429185.68 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5524929.40 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5302280.44 |       | P        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6973337.05 |       | M        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7067085.59 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7010216.77 |       | M        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6946763.71 |       | M        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6880489.62 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6943197.74 |       | M        | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6983991.15 |       | M        | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6197586.99 |       | P        | 1.1 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4321060.80 |       | P        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4391796.46 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4328890.18 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4203373.24 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4120384.59 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4135096.01 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4115827.12 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3646028.90 |       | P        | 0.9 |

US EPA Tune Check Sample Report

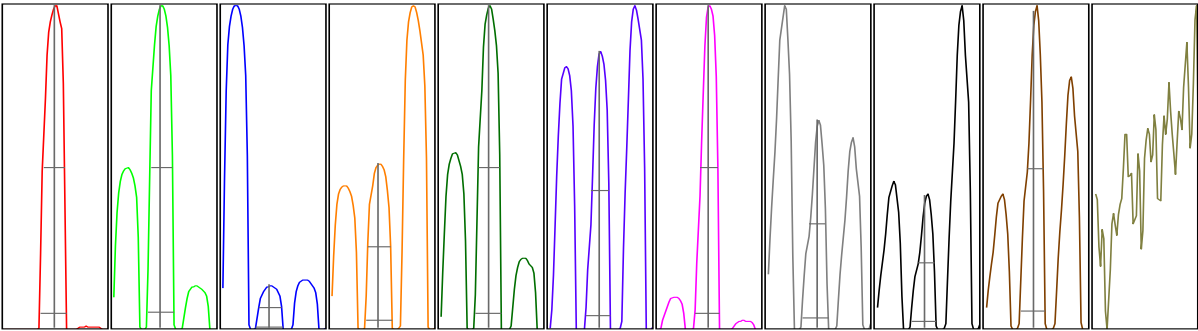
Batch Folder D:\ICP-MS Data\P7082419-MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 5950            | 0.45             | 5.00               |                |
| 24   | 62358           | 0.41             | 5.00               |                |
| 25   | 8395            | 0.45             | 5.00               |                |
| 26   | 9574            | 0.41             | 5.00               |                |
| 59   | 50144           | 0.33             | 5.00               |                |
| 113  | 7608            | 0.48             | 5.00               |                |
| 115  | 89236           | 0.38             | 5.00               |                |
| 206  | 22476           | 0.51             | 5.00               |                |
| 207  | 20356           | 0.36             | 5.00               |                |
| 208  | 48679           | 0.19             | 5.00               |                |
| 220  | 73              | 2.84             |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 5967                 | 5976                 | 5964                 | 5926                 | 5916                 |
| 24   | 62213                | 62671                | 62583                | 62264                | 62061                |
| 25   | 8372                 | 8396                 | 8456                 | 8356                 | 8396                 |
| 26   | 9525                 | 9600                 | 9624                 | 9570                 | 9552                 |
| 59   | 50131                | 50353                | 50256                | 50029                | 49952                |
| 113  | 7637                 | 7617                 | 7631                 | 7610                 | 7545                 |
| 115  | 89706                | 89445                | 89166                | 88962                | 88900                |
| 206  | 22597                | 22571                | 22495                | 22391                | 22328                |
| 207  | 20414                | 20449                | 20331                | 20279                | 20306                |
| 208  | 48828                | 48662                | 48568                | 48684                | 48653                |
| 220  | 71                   | 71                   | 73                   | 74                   | 76                   |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 9723           | 9.00             | 8.9 - 9.1          |                | 0.783                | 0.900                  |                        |
| 24   | 100090         | 23.90            | 23.9 - 24.1        |                | 0.783                | 0.900                  |                        |
| 25   | 13398          | 24.90            | 24.9 - 25.1        |                | 0.787                | 0.900                  |                        |
| 26   | 15428          | 25.90            | 25.9 - 26.1        |                | 0.783                | 0.900                  |                        |
| 59   | 85170          | 58.95            | 58.9 - 59.1        |                | 0.772                | 0.900                  |                        |
| 113  | 15083          | 113.00           | 112.9 - 113.1      |                | 0.713                | 0.900                  |                        |
| 115  | 176226         | 115.00           | 114.9 - 115.1      |                | 0.704                | 0.900                  |                        |
| 206  | 47142          | 206.00           | 205.9 - 206.1      |                | 0.770                | 0.900                  |                        |
| 207  | 42124          | 206.95           | 206.9 - 207.1      |                | 0.731                | 0.900                  |                        |
| 208  | 100991         | 207.95           | 207.9 - 208.1      |                | 0.730                | 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    | 7.3   | V    | Deflect       | 14.2  | V    |
| Extract 2     | -90.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -45   | 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       | 180   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 12631           | 0.37             |                    |
| 89   | 19525           | 0.25             |                    |
| 205  | 21196           | 0.50             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 12696                | 12588                | 12646                | 12642                | 12584                |
| 89   | 19454                | 19557                | 19534                | 19579                | 19499                |
| 205  | 21256                | 21276                | 21054                | 21286                | 21108                |

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    | 7.5   | V    | Deflect       | 1.6   | V    |
| Extract 2     | -100.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -50    | 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    |                       |       |       |