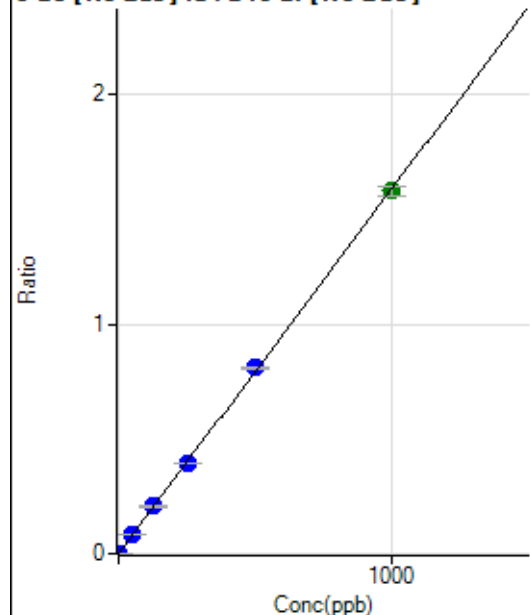


Batch Folder: D:\P8031419MS.b\  
Analysis File: P8031419MS.batch.bin  
DA Date-Time: 2019-03-15 00:39:20  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2019-03-14 14:05:17 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2019-03-14 14:12:45 |
| 4     | 006CALS.d          | S03         | 2019-03-14 14:16:40 |
| 5     | 007CALS.d          | S04         | 2019-03-14 14:20:33 |
| 6     | 008CALS.d          | S05         | 2019-03-14 14:24:21 |
| 7     | 009CALS.d          | S06         | 2019-03-14 14:28:02 |
| 8     | 010CALS.d          | S07         | 2019-03-14 14:31:39 |
| 9     | 011CALS.d          | S08         | 2019-03-14 14:35:09 |

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      | 81.11      | 0.0001 | P   | 9.8  |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.928      | 1094.50    | 0.0016 | P   | 2.7  |
| 4 | <input type="checkbox"/> | 50.000   | 51.486     | 54200.77   | 0.0819 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 129.244    | 139036.54  | 0.2054 | P   | 5.6  |
| 6 | <input type="checkbox"/> | 250.000  | 245.648    | 276549.09  | 0.3902 | P   | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 509.715    | 556574.28  | 0.8095 | P   | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.626    | 1115754.51 | 1.5811 | A   | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 243.34     | 0.0003 | P   | 17.3 |

$$y = 0.0016 * x + 1.1587E-004$$

$$R = 0.9999$$

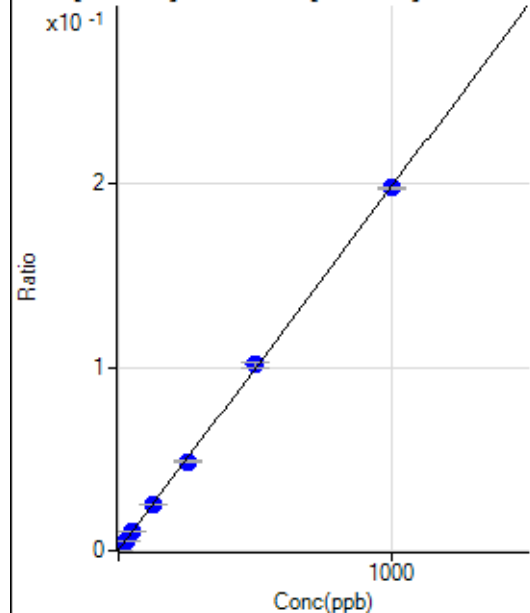
$$DL = 0.02152$$

$$BEC = 0.07296$$

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      | 208.35    | 0.0003 | P   | 3.1 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 25.000   | 22.521     | 3281.07   | 0.0048 | P   | 1.4 |
| 4 | <input type="checkbox"/> | 50.000   | 50.419     | 6815.79   | 0.0103 | P   | 5.6 |
| 5 | <input type="checkbox"/> | 125.000  | 125.536    | 17074.71  | 0.0252 | P   | 3.5 |
| 6 | <input type="checkbox"/> | 250.000  | 244.278    | 34559.40  | 0.0488 | P   | 4.1 |
| 7 | <input type="checkbox"/> | 500.000  | 509.776    | 69731.46  | 0.1014 | P   | 2.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.516    | 139731.33 | 0.1980 | P   | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 6432.29   | 0.0089 | P   | 4.3 |

$$y = 1.9839E-004 * x + 2.9730E-004$$

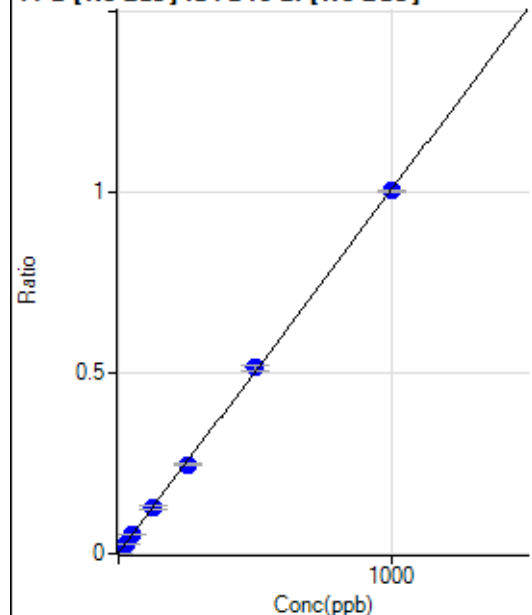
$$R = 0.9999$$

$$DL = 0.1403$$

$$BEC = 1.499$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1105.65   | 0.0016 | P   | 7.9 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 25.000   | 23.090     | 17058.05  | 0.0248 | P   | 3.0 |
| 4 | <input type="checkbox"/> | 50.000   | 50.608     | 34701.36  | 0.0524 | P   | 2.7 |
| 5 | <input type="checkbox"/> | 125.000  | 125.904    | 86701.12  | 0.1281 | P   | 6.6 |
| 6 | <input type="checkbox"/> | 250.000  | 243.244    | 174330.88 | 0.2460 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 500.000  | 509.308    | 352882.92 | 0.5133 | P   | 2.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.939    | 708014.88 | 1.0032 | P   | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 32423.87  | 0.0447 | P   | 6.2 |

$$y = 0.0010 * x + 0.0016$$

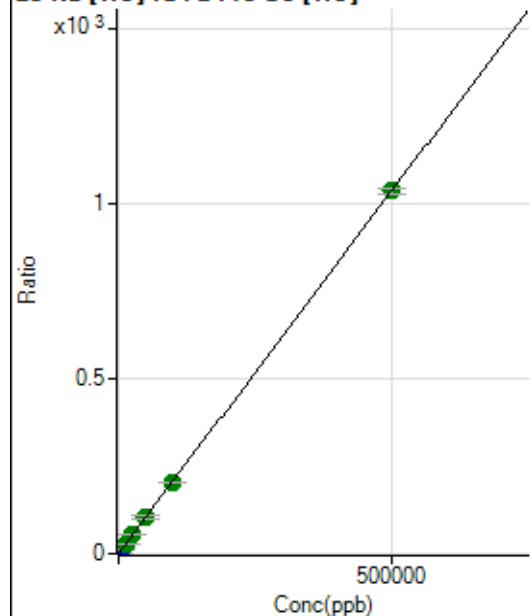
$$R = 0.9999$$

$$DL = 0.3711$$

$$BEC = 1.57$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 10546.02    | 0.2227    | P   | 2.8 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |           |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 489.627    | 57734.63    | 1.2378    | P   | 0.9 |
| 4 | <input type="checkbox"/> | 5000.000  | 5110.758   | 505263.64   | 10.8189   | P   | 3.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 13030.635  | 1275635.92  | 27.2394   | A   | 0.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 26739.204  | 2514066.40  | 55.6616   | A   | 3.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 50699.428  | 4973010.05  | 105.3389  | A   | 7.5 |
| 8 | <input type="checkbox"/> | 100000.00 | 97535.676  | 10009669.58 | 202.4455  | A   | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 500321.59  | 49703608.75 | 1,037.550 | A   | 1.9 |

$$y = 0.0021 * x + 0.2227$$

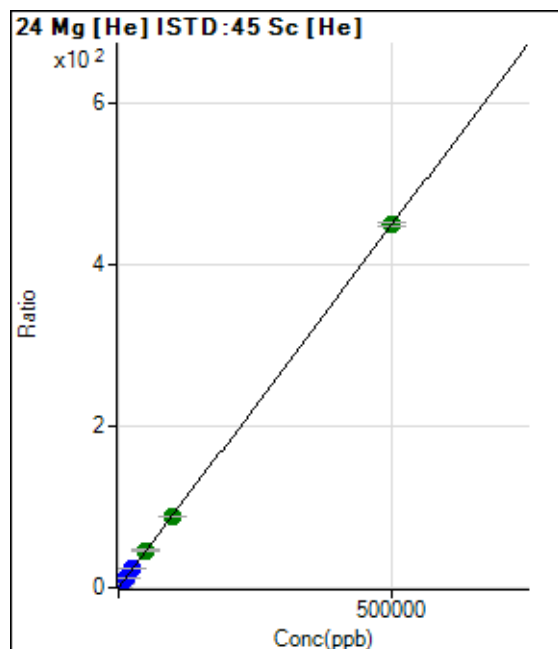
$$R = 1.0000$$

$$DL = 9.141$$

$$BEC = 107.4$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 416.69      | 0.0088   | P   | 1.5 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 510.393    | 21742.39    | 0.4662   | P   | 2.3 |
| 4 | <input type="checkbox"/> | 5000.000  | 5116.340   | 214586.02   | 4.5944   | P   | 2.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12853.146  | 539898.25   | 11.5285  | P   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26560.040  | 1075457.51  | 23.8135  | P   | 3.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 51239.012  | 2168928.95  | 45.9322  | A   | 7.0 |
| 8 | <input type="checkbox"/> | 100000.00 | 97715.375  | 4330627.53  | 87.5871  | A   | 0.5 |
| 9 | <input type="checkbox"/> | 500000.00 | 500245.01  | 21480467.15 | 448.3580 | A   | 1.1 |

$$y = 8.9626\text{E-}004 * x + 0.0088$$

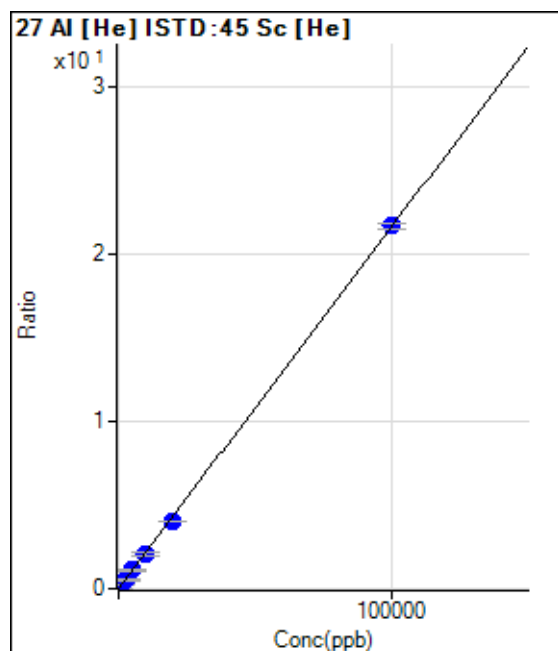
$$R = 1.0000$$

$$DL = 0.4482$$

$$BEC = 9.816$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 58.35      | 0.0012  | P   | 17.6 |
| 2 | <input type="checkbox"/> | 2.000     |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 20.000    | 16.298     | 221.73     | 0.0048  | P   | 17.3 |
| 4 | <input type="checkbox"/> | 1000.000  | 978.360    | 9939.40    | 0.2129  | P   | 4.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2405.768   | 24427.15   | 0.5216  | P   | 1.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5055.155   | 49443.62   | 1.0947  | P   | 2.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 9488.503   | 96960.24   | 2.0536  | P   | 7.3  |
| 8 | <input type="checkbox"/> | 20000.000 | 18608.480  | 199069.25  | 4.0262  | P   | 0.4  |
| 9 | <input type="checkbox"/> | 100000.00 | 100329.26  | 1039684.43 | 21.7023 | P   | 1.5  |

$$y = 2.1630\text{E-}004 * x + 0.0012$$

$$R = 0.9999$$

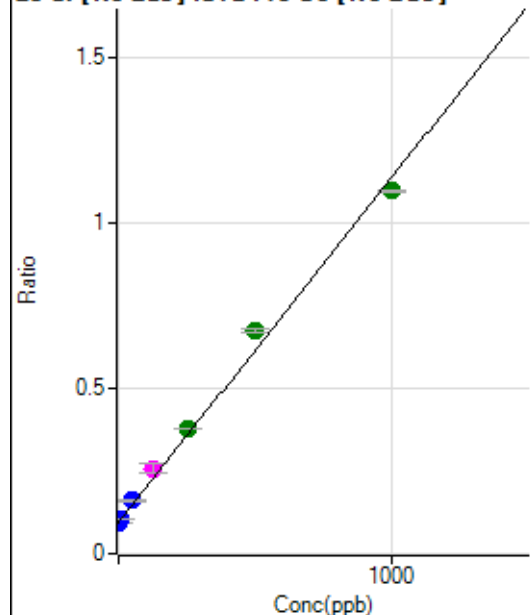
$$DL = 3.011$$

$$BEC = 5.705$$

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      | 366479.51  | 0.0948 | P   | 0.5 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 10.000   | 10.980     | 406137.58  | 0.1062 | P   | 0.6 |
| 4 | <input type="checkbox"/> | 50.000   | 62.864     | 601362.17  | 0.1603 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 125.000  | 157.418    | 963882.15  | 0.2590 | M   | 9.4 |
| 6 | <input type="checkbox"/> | 250.000  | 270.004    | 1467405.34 | 0.3764 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 556.932    | 2558101.01 | 0.6756 | A   | 2.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 961.828    | 4195874.14 | 1.0979 | A   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 649444.80  | 0.1660 | P   | 1.5 |

$$y = 0.0010 * x + 0.0948$$

$$R = 0.9970$$

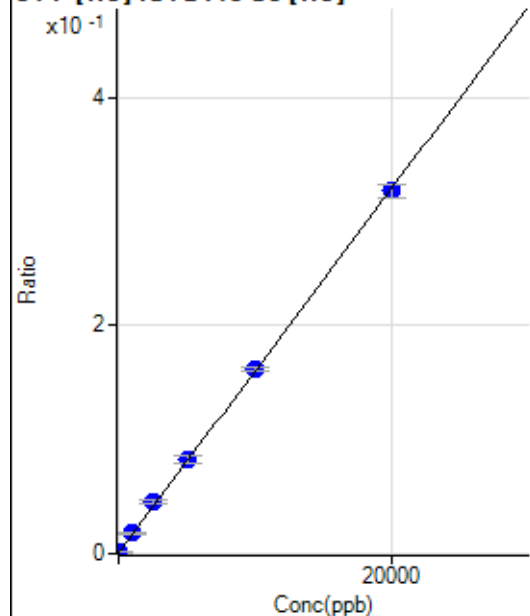
$$DL = 1.445$$

$$BEC = 90.87$$

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     | -31.807    | 8.33     | 0.0002 | P   | 99.1 |
| 2 | <input type="checkbox"/> | 0.000     |            |          |        |     |      |
| 3 | <input type="checkbox"/> | 0.000     | 31.807     | 55.56    | 0.0012 | P   | 8.1  |
| 4 | <input type="checkbox"/> | 1000.000  | 1085.770   | 841.74   | 0.0180 | P   | 6.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2775.934   | 2108.60  | 0.0450 | P   | 7.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5163.212   | 3753.46  | 0.0832 | P   | 8.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 10084.903  | 7655.19  | 0.1618 | P   | 2.7  |
| 8 | <input type="checkbox"/> | 20000.000 | 19877.965  | 15737.10 | 0.3183 | P   | 3.7  |
| 9 | <input type="checkbox"/> |           |            | 13.89    | 0.0003 | P   | 69.7 |

$$y = 1.5976E-005 * x + 6.8267E-004$$

$$R = 0.9999$$

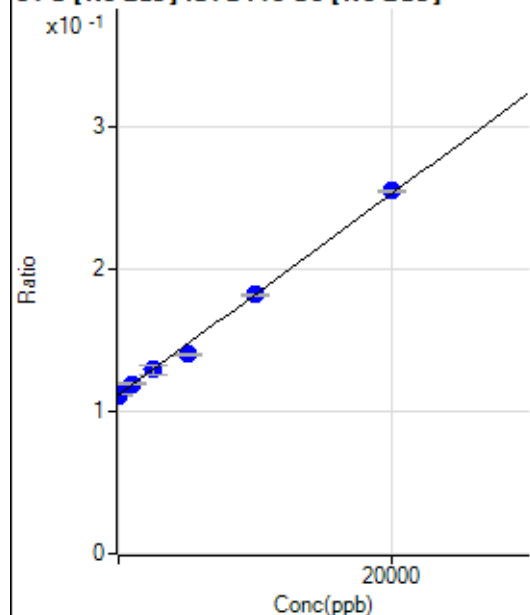
$$DL = 25.32$$

$$BEC = 42.73$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -115.798   | 427741.74 | 0.1106 | P   | 0.5 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 0.000     | 115.798    | 429176.86 | 0.1122 | P   | 0.6 |
| 4 | <input type="checkbox"/> | 1000.000  | 1117.781   | 447483.73 | 0.1193 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2515.429   | 481290.12 | 0.1292 | P   | 5.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 3996.379   | 544328.74 | 0.1396 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 9931.202   | 687250.64 | 0.1815 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 20000.000 | 20277.486  | 972545.85 | 0.2545 | P   | 0.7 |
| 9 | <input type="checkbox"/> |           |            | 394982.40 | 0.1010 | P   | 1.7 |

$$y = 7.0550\text{E-}006 * x + 0.1114$$

$$R = 0.9984$$

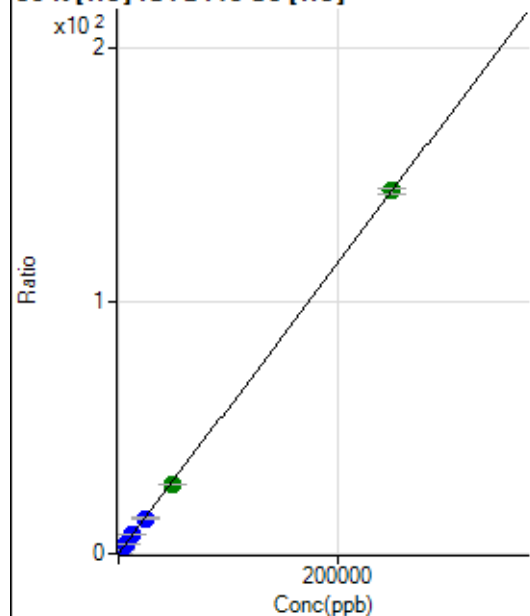
$$DL = 266.5$$

$$BEC = 1.579\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 4523.14    | 0.0955   | P   | 6.1 |
| 2 | <input type="checkbox"/> | 50.000    |            |            |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 482.000    | 17325.18   | 0.3715   | P   | 1.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2441.994   | 69757.05   | 1.4936   | P   | 2.7 |
| 5 | <input type="checkbox"/> | 6250.000  | 6174.750   | 170029.98  | 3.6306   | P   | 0.9 |
| 6 | <input type="checkbox"/> | 12500.000 | 12665.705  | 331811.39  | 7.3467   | P   | 3.3 |
| 7 | <input type="checkbox"/> | 25000.000 | 24332.709  | 662273.02  | 14.0262  | P   | 7.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 48000.310  | 1363466.14 | 27.5761  | A   | 0.9 |
| 9 | <input type="checkbox"/> | 250000.00 | 250460.87  | 6873902.07 | 143.4866 | A   | 1.6 |

$$y = 5.7251\text{E-}004 * x + 0.0955$$

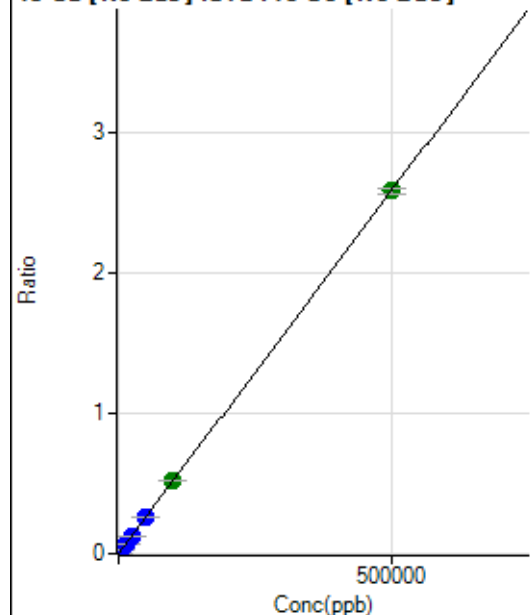
$$R = 1.0000$$

$$DL = 30.66$$

$$BEC = 166.8$$

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      | 643.36      | 0.0002 | P   | 15.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 454.764    | 9620.12     | 0.0025 | P   | 2.4  |
| 4 | <input type="checkbox"/> | 5000.000  | 5003.211   | 97565.11    | 0.0260 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12630.664  | 243735.65   | 0.0654 | P   | 5.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 24115.122  | 486329.86   | 0.1247 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 50000.000 | 50516.104  | 988805.47   | 0.2611 | P   | 0.8  |
| 8 | <input type="checkbox"/> | 100000.00 | 100938.74  | 1993529.35  | 0.5216 | A   | 0.4  |
| 9 | <input type="checkbox"/> | 500000.00 | 499801.63  | 10099846.03 | 2.5822 | A   | 1.6  |

$$y = 5.1661\text{E-}006 * x + 1.6640\text{E-}004$$

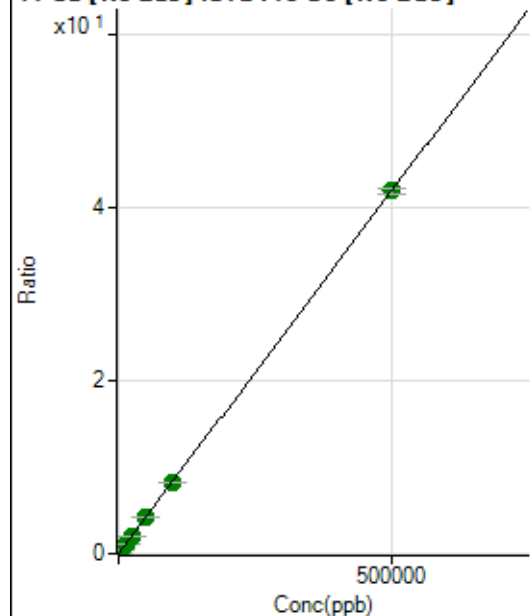
$$R = 1.0000$$

$$DL = 14.47$$

$$BEC = 32.21$$

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      | 24246.72    | 0.0063  | P   | 0.7 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 453.641    | 169119.24   | 0.0442  | P   | 0.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 5095.337   | 1622724.70  | 0.4327  | A   | 0.9 |
| 5 | <input type="checkbox"/> | 12500.000 | 12658.505  | 3970417.65  | 1.0656  | A   | 5.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 24145.054  | 7901698.22  | 2.0268  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 50526.112  | 16033858.23 | 4.2345  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 100000.00 | 98912.441  | 31656888.14 | 8.2837  | A   | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 500202.77  | 163743223.1 | 41.8652 | A   | 1.5 |

$$y = 8.3684\text{E-}005 * x + 0.0063$$

$$R = 1.0000$$

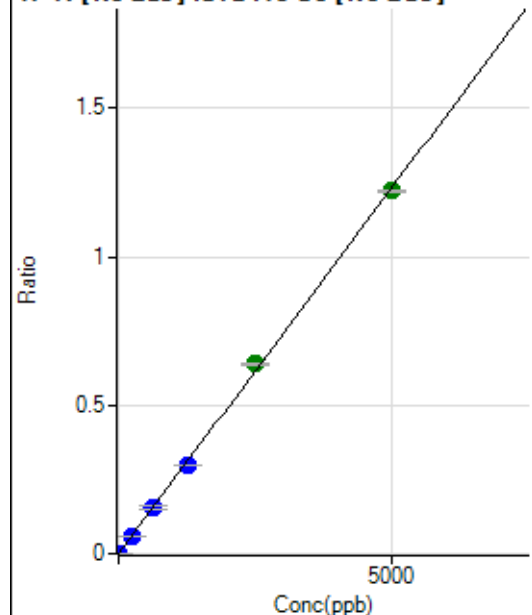
$$DL = 1.594$$

$$BEC = 74.93$$

Weight: &lt;None&gt;

Min Conc: 0

47 Ti [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      | 108.34     | 0.0000 | P   | 40.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.688      | 4520.37    | 0.0012 | P   | 4.6  |
| 4 | <input type="checkbox"/> | 250.000  | 248.404    | 229465.27  | 0.0612 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 625.000  | 633.743    | 581400.59  | 0.1561 | P   | 5.7  |
| 6 | <input type="checkbox"/> | 1250.000 | 1204.021   | 1155716.56 | 0.2964 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 2500.000 | 2592.409   | 2416771.30 | 0.6383 | A   | 1.0  |
| 8 | <input type="checkbox"/> | 5000.000 | 4964.277   | 4670749.71 | 1.2222 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 1013.97    | 0.0003 | P   | 11.8 |

$$y = 2.4619\text{E-}004 * x + 2.8015\text{E-}005$$

$$R = 0.9997$$

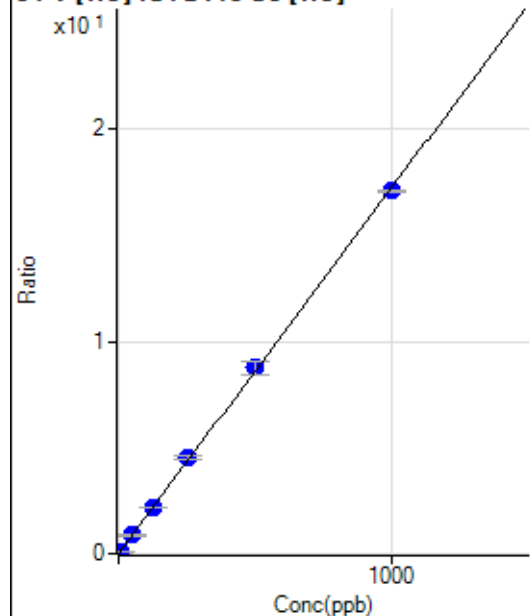
$$DL = 0.1391$$

$$BEC = 0.1138$$

Weight: &lt;None&gt;

Min Conc: 0

51 V [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      | 20.00     | 0.0004  | P   | 32.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |           |         |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.010      | 4040.65   | 0.0867  | P   | 3.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.523     | 40626.81  | 0.8701  | P   | 4.6  |
| 5 | <input type="checkbox"/> | 125.000  | 127.792    | 103034.58 | 2.2001  | P   | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 263.808    | 205080.29 | 4.5414  | P   | 3.9  |
| 7 | <input type="checkbox"/> | 500.000  | 508.324    | 413078.36 | 8.7503  | P   | 7.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.011    | 844290.70 | 17.0761 | P   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 128.89    | 0.0027  | P   | 22.1 |

$$y = 0.0172 * x + 4.2111\text{E-}004$$

$$R = 0.9998$$

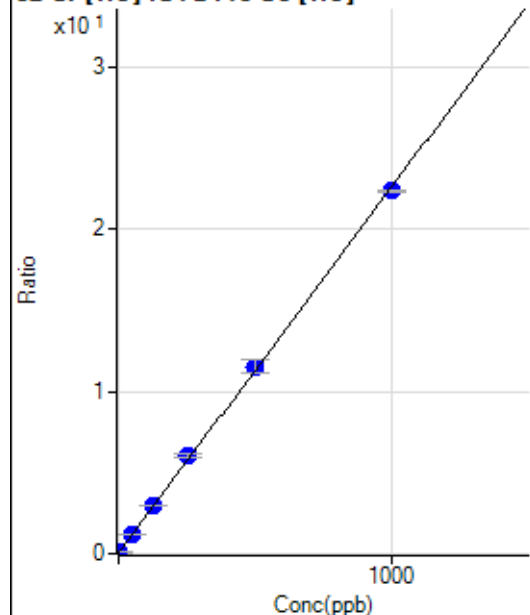
$$DL = 0.02353$$

$$BEC = 0.02446$$

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      | 1537.89    | 0.0325  | P   | 1.8 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.965      | 3578.29    | 0.0768  | P   | 5.0 |
| 4 | <input type="checkbox"/> | 50.000   | 51.324     | 55529.71   | 1.1890  | P   | 2.8 |
| 5 | <input type="checkbox"/> | 125.000  | 128.519    | 137142.07  | 2.9284  | P   | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 266.780    | 272929.79  | 6.0439  | P   | 3.9 |
| 7 | <input type="checkbox"/> | 500.000  | 510.601    | 544601.42  | 11.5380 | P   | 7.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 989.998    | 1104569.68 | 22.3405 | P   | 0.8 |
| 9 | <input type="checkbox"/> |          |            | 8961.88    | 0.1870  | P   | 1.1 |

$$y = 0.0225 * x + 0.0325$$

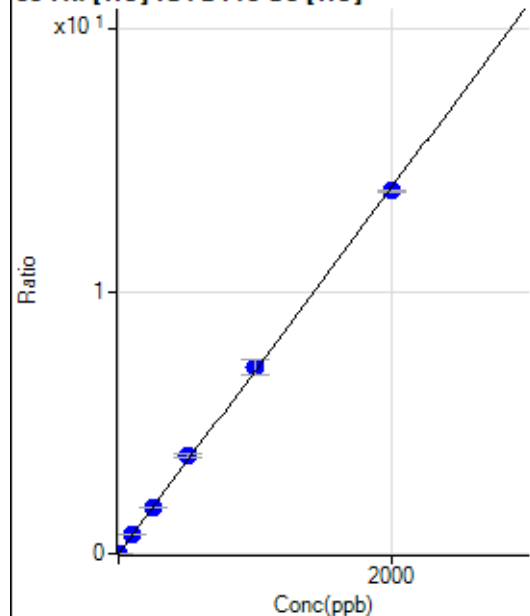
$$R = 0.9998$$

$$DL = 0.07749$$

$$BEC = 1.441$$

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      | 85.56     | 0.0018  | P   | 1.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |         |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.976      | 402.23    | 0.0086  | P   | 2.3 |
| 4 | <input type="checkbox"/> | 100.000  | 102.336    | 33452.37  | 0.7163  | P   | 3.5 |
| 5 | <input type="checkbox"/> | 250.000  | 256.161    | 83845.45  | 1.7904  | P   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 532.135    | 167882.96 | 3.7173  | P   | 3.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 1018.621   | 335799.02 | 7.1140  | P   | 7.8 |
| 8 | <input type="checkbox"/> | 2000.000 | 1981.769   | 684233.33 | 13.8388 | P   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 2639.19   | 0.0551  | P   | 1.0 |

$$y = 0.0070 * x + 0.0018$$

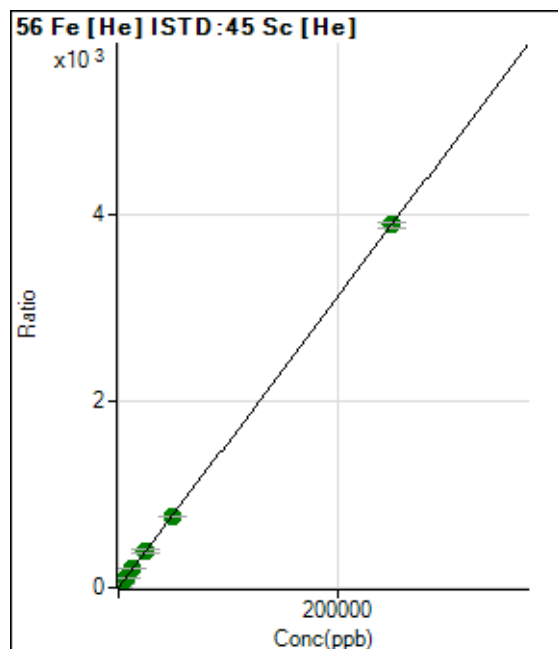
$$R = 0.9998$$

$$DL = 0.01419$$

$$BEC = 0.2587$$

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      | 3248.62     | 0.0686    | P   | 7.0 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |     |     |
| 3 | <input type="checkbox"/> | 50.000    | 51.668     | 40631.95    | 0.8712    | P   | 1.7 |
| 4 | <input type="checkbox"/> | 2500.000  | 2593.403   | 1884626.06  | 40.3535   | A   | 2.9 |
| 5 | <input type="checkbox"/> | 6250.000  | 6456.713   | 4700216.08  | 100.3647  | A   | 0.1 |
| 6 | <input type="checkbox"/> | 12500.000 | 13169.354  | 9242742.57  | 204.6363  | A   | 3.0 |
| 7 | <input type="checkbox"/> | 25000.000 | 25118.510  | 18421245.78 | 390.2498  | A   | 7.8 |
| 8 | <input type="checkbox"/> | 50000.000 | 49020.614  | 37652995.29 | 761.5359  | A   | 0.7 |
| 9 | <input type="checkbox"/> | 250000.00 | 250144.45  | 186153300.4 | 3,885.715 | A   | 1.4 |

$$y = 0.0155 * x + 0.0686$$

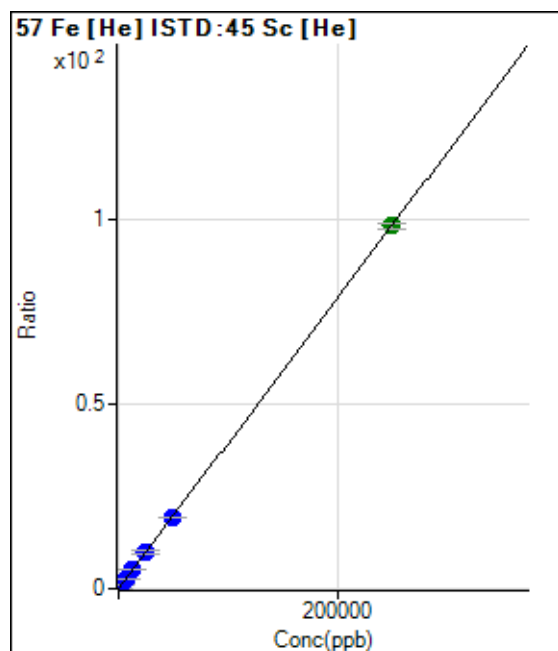
$$R = 1.0000$$

$$DL = 0.9244$$

$$BEC = 4.418$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 96.30      | 0.0020  | P   | 41.4 |
| 2 | <input type="checkbox"/> | 5.000     |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 50.000    | 59.463     | 1181.57    | 0.0254  | P   | 6.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2521.533   | 46262.32   | 0.9906  | P   | 2.8  |
| 5 | <input type="checkbox"/> | 6250.000  | 6400.955   | 117614.48  | 2.5114  | P   | 0.7  |
| 6 | <input type="checkbox"/> | 12500.000 | 13283.816  | 235307.19  | 5.2097  | P   | 2.9  |
| 7 | <input type="checkbox"/> | 25000.000 | 25249.128  | 467461.35  | 9.9005  | P   | 7.2  |
| 8 | <input type="checkbox"/> | 50000.000 | 48993.892  | 949754.77  | 19.2091 | P   | 0.4  |
| 9 | <input type="checkbox"/> | 250000.00 | 250133.12  | 4697788.12 | 98.0617 | A   | 1.8  |

$$y = 3.9203E-004 * x + 0.0020$$

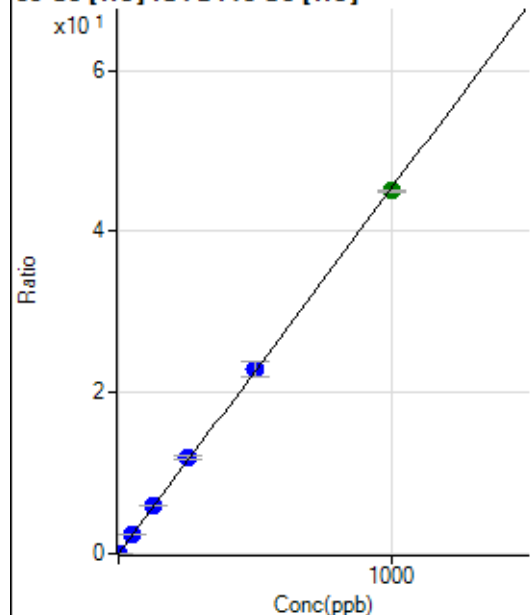
$$R = 1.0000$$

$$DL = 6.466$$

$$BEC = 5.204$$

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 230.01     | 0.0049  | P   | 13.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.957      | 2251.34    | 0.0483  | P   | 2.5  |
| 4 | <input type="checkbox"/> | 50.000   | 51.266     | 108840.81  | 2.3304  | P   | 2.7  |
| 5 | <input type="checkbox"/> | 125.000  | 129.091    | 274470.27  | 5.8608  | P   | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 264.807    | 542733.58  | 12.0173 | P   | 3.4  |
| 7 | <input type="checkbox"/> | 500.000  | 505.974    | 1083686.80 | 22.9574 | P   | 7.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.737    | 2226828.02 | 45.0385 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 25085.01   | 0.5235  | P   | 0.6  |

$$y = 0.0454 * x + 0.0049$$

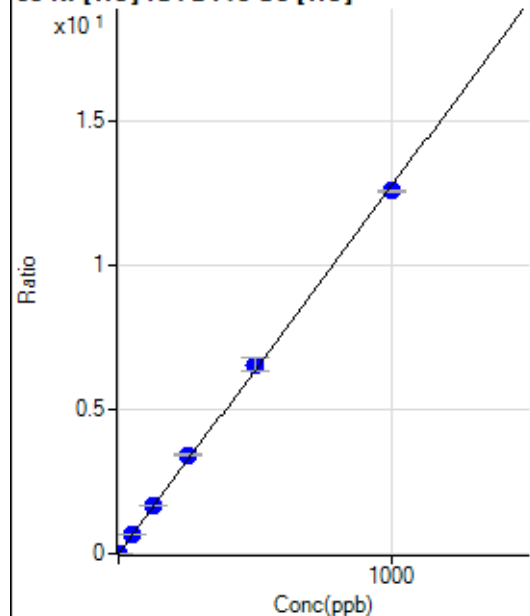
$$R = 0.9998$$

$$DL = 0.04258$$

$$BEC = 0.1071$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|-----------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 113.34    | 0.0024  | P   | 12.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |         |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.985      | 697.81    | 0.0150  | P   | 6.0  |
| 4 | <input type="checkbox"/> | 50.000   | 52.868     | 31619.39  | 0.6772  | P   | 4.7  |
| 5 | <input type="checkbox"/> | 125.000  | 131.706    | 78837.46  | 1.6834  | P   | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 269.292    | 155327.92 | 3.4395  | P   | 3.7  |
| 7 | <input type="checkbox"/> | 500.000  | 514.181    | 309972.29 | 6.5652  | P   | 7.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.105    | 623051.99 | 12.6014 | P   | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 7643.31   | 0.1595  | P   | 2.5  |

$$y = 0.0128 * x + 0.0024$$

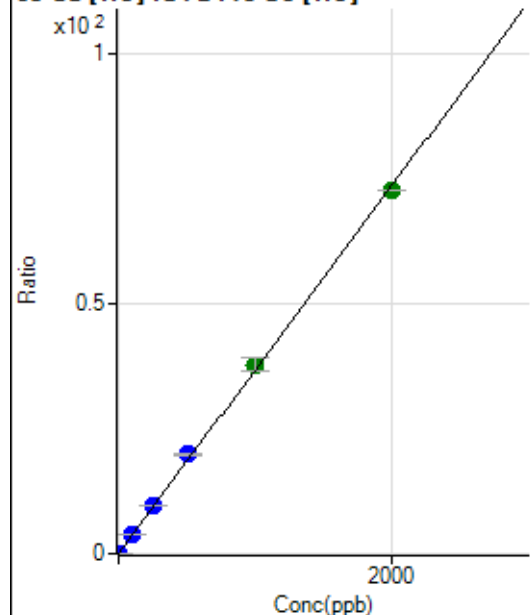
$$R = 0.9996$$

$$DL = 0.07283$$

$$BEC = 0.1877$$

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      | 480.02     | 0.0101  | P   | 11.7 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.038      | 3970.64    | 0.0851  | P   | 2.7  |
| 4 | <input type="checkbox"/> | 100.000  | 103.841    | 178872.03  | 3.8300  | P   | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 261.021    | 450136.64  | 9.6118  | P   | 0.1  |
| 6 | <input type="checkbox"/> | 500.000  | 539.437    | 896706.00  | 19.8534 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1028.946   | 1788042.84 | 37.8600 | A   | 6.7  |
| 8 | <input type="checkbox"/> | 2000.000 | 1974.098   | 3590940.43 | 72.6275 | A   | 0.1  |
| 9 | <input type="checkbox"/> |          |            | 4916.52    | 0.1027  | P   | 6.9  |

$$y = 0.0368 * x + 0.0101$$

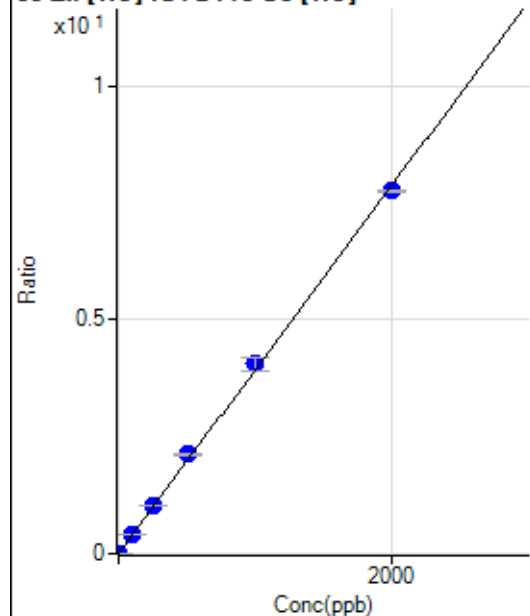
$$R = 0.9996$$

$$DL = 0.09651$$

$$BEC = 0.2758$$

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      | 60.00     | 0.0013 | P   | 19.9 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.932      | 413.35    | 0.0089 | P   | 5.7  |
| 4 | <input type="checkbox"/> | 100.000  | 103.622    | 19067.81  | 0.4083 | P   | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 263.140    | 48461.16  | 1.0348 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 540.428    | 95933.20  | 2.1239 | P   | 2.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1030.201   | 191085.97 | 4.0476 | P   | 7.5  |
| 8 | <input type="checkbox"/> | 2000.000 | 1972.969   | 383211.84 | 7.7506 | P   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 2486.93   | 0.0519 | P   | 3.6  |

$$y = 0.0039 * x + 0.0013$$

$$R = 0.9996$$

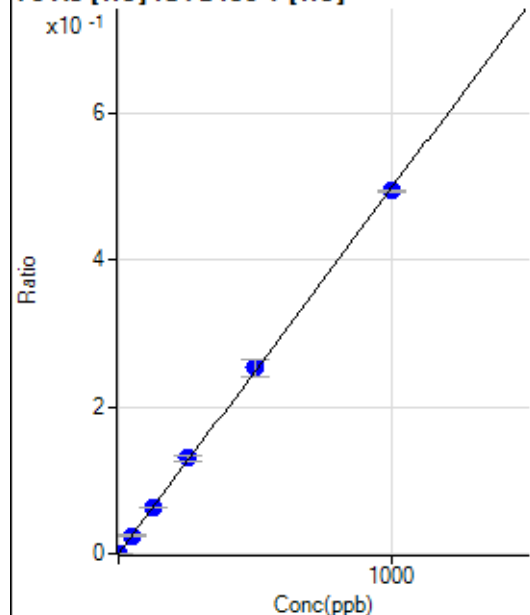
$$DL = 0.193$$

$$BEC = 0.3227$$

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      | 8.03      | 0.0000 | P   | 35.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.966      | 147.53    | 0.0005 | P   | 10.3 |
| 4 | <input type="checkbox"/> | 50.000   | 49.728     | 7209.97   | 0.0247 | P   | 3.2  |
| 5 | <input type="checkbox"/> | 125.000  | 125.575    | 18306.04  | 0.0625 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 261.374    | 36506.78  | 0.1300 | P   | 5.0  |
| 7 | <input type="checkbox"/> | 500.000  | 509.076    | 72994.32  | 0.2531 | P   | 9.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.560    | 149945.78 | 0.4935 | P   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 230.87    | 0.0008 | P   | 9.0  |

$$y = 4.9716\text{E-}004 * x + 2.7194\text{E-}005$$

$$R = 0.9999$$

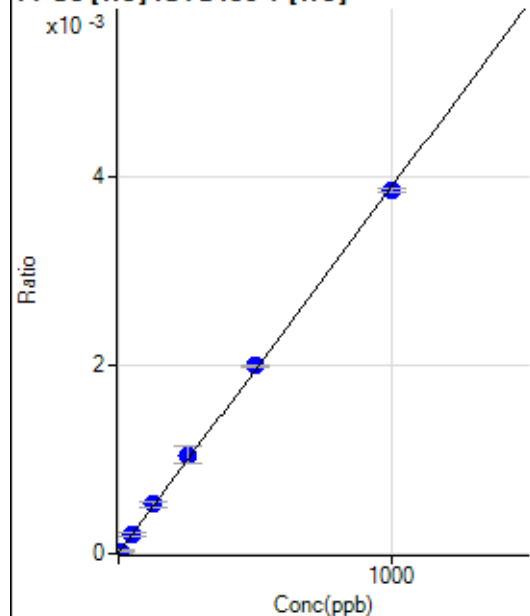
$$DL = 0.05896$$

$$BEC = 0.0547$$

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      | 2.22    | 0.0000 | P   | 86.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 3.995      | 6.67    | 0.0000 | P   | 86.6 |
| 4 | <input type="checkbox"/> | 50.000   | 50.235     | 58.89   | 0.0002 | P   | 26.5 |
| 5 | <input type="checkbox"/> | 125.000  | 132.812    | 153.34  | 0.0005 | P   | 11.1 |
| 6 | <input type="checkbox"/> | 250.000  | 267.154    | 293.34  | 0.0010 | P   | 18.1 |
| 7 | <input type="checkbox"/> | 500.000  | 511.264    | 577.80  | 0.0020 | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.096    | 1168.97 | 0.0038 | P   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 4.44    | 0.0000 | P   | 43.7 |

$$y = 3.8821\text{E-}006 * x + 7.5020\text{E-}006$$

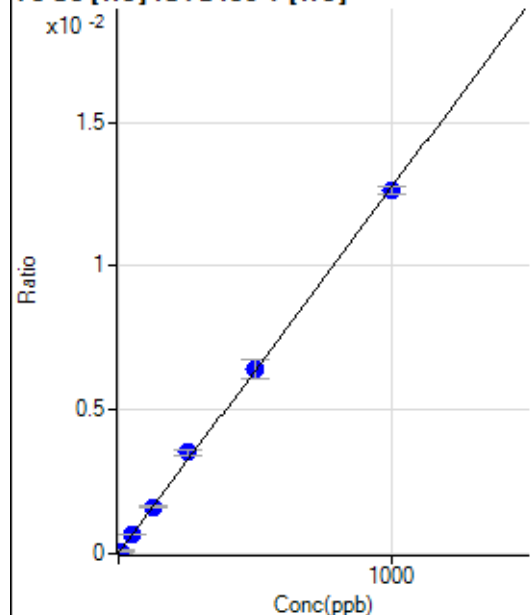
$$R = 0.9997$$

$$DL = 5.022$$

$$BEC = 1.932$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.32    | 0.0000 | P   | 25.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 6.036      | 26.55   | 0.0001 | P   | 35.4 |
| 4 | <input type="checkbox"/> | 50.000   | 50.516     | 191.36  | 0.0007 | P   | 6.0  |
| 5 | <input type="checkbox"/> | 125.000  | 127.089    | 477.79  | 0.0016 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 275.721    | 990.17  | 0.0035 | P   | 4.4  |
| 7 | <input type="checkbox"/> | 500.000  | 505.141    | 1855.08 | 0.0064 | P   | 10.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 990.707    | 3831.43 | 0.0126 | P   | 2.2  |
| 9 | <input type="checkbox"/> |          |            | 4.32    | 0.0000 | P   | 24.6 |

$$y = 1.2712\text{E-}005 * x + 1.4623\text{E-}005$$

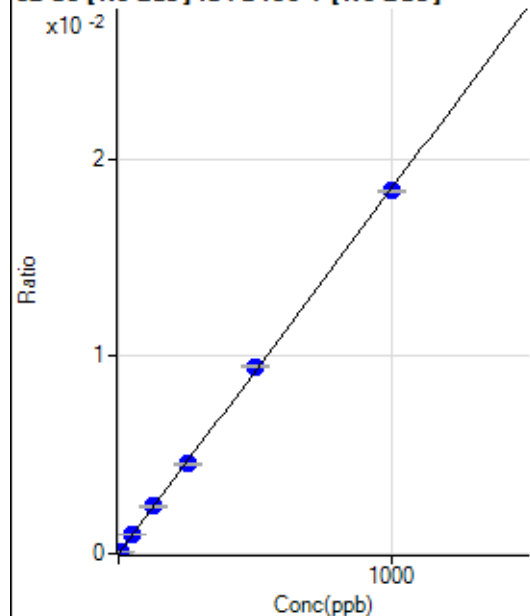
$$R = 0.9996$$

$$DL = 0.8672$$

$$BEC = 1.15$$

Weight: &lt;None&gt;

Min Conc: 0

**82 Se [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      | -6.22     | 0.0000 | P   | -1160. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |     |        |
| 3 | <input type="checkbox"/> | 5.000    | 5.044      | 509.96    | 0.0001 | P   | 6.4    |
| 4 | <input type="checkbox"/> | 50.000   | 51.387     | 5174.56   | 0.0009 | P   | 2.6    |
| 5 | <input type="checkbox"/> | 125.000  | 129.853    | 12990.79  | 0.0024 | P   | 6.0    |
| 6 | <input type="checkbox"/> | 250.000  | 246.465    | 25858.00  | 0.0046 | P   | 2.7    |
| 7 | <input type="checkbox"/> | 500.000  | 512.783    | 52383.25  | 0.0095 | P   | 1.4    |
| 8 | <input type="checkbox"/> | 1000.000 | 993.816    | 103777.54 | 0.0184 | P   | 0.8    |
| 9 | <input type="checkbox"/> |          |            | 35.55     | 0.0000 | P   | 126.7  |

$$y = 1.8504\text{E-}005 * x - 1.0892\text{E-}006$$

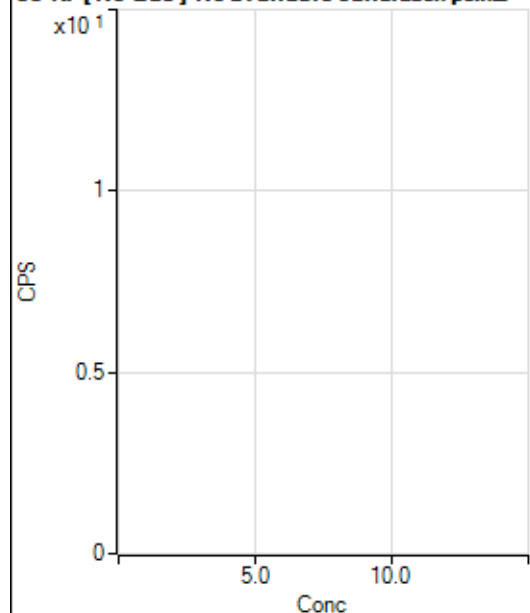
$$R = 0.9999$$

$$DL = 2.049$$

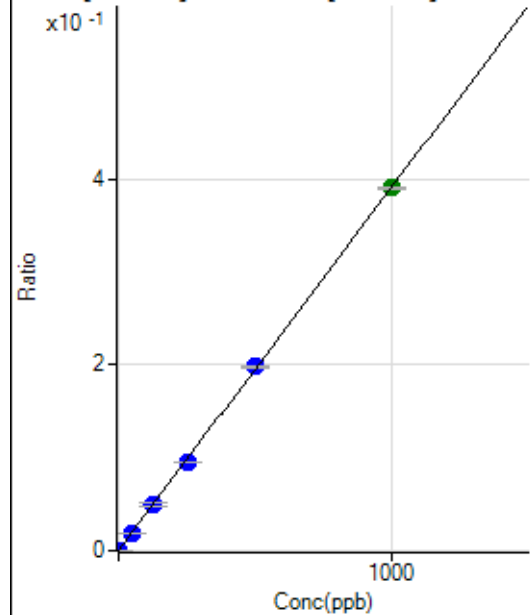
$$BEC = -0.05887$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD |
|---|--------------------------|-------|------------|--------|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            | 914.49 |       | P   | 3.4 |
| 2 | <input type="checkbox"/> |       |            |        |       |     |     |
| 3 | <input type="checkbox"/> |       |            | 963.38 |       | P   | 3.4 |
| 4 | <input type="checkbox"/> |       |            | 947.83 |       | P   | 4.5 |
| 5 | <input type="checkbox"/> |       |            | 913.38 |       | P   | 4.8 |
| 6 | <input type="checkbox"/> |       |            | 928.94 |       | P   | 7.8 |
| 7 | <input type="checkbox"/> |       |            | 891.16 |       | P   | 6.0 |
| 8 | <input type="checkbox"/> |       |            | 988.94 |       | P   | 2.2 |
| 9 | <input type="checkbox"/> |       |            | 964.49 |       | P   | 4.8 |

**86 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      | 1408.47    | 0.0003 | P   | 8.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.798      | 3114.38    | 0.0006 | P   | 4.3 |
| 4 | <input type="checkbox"/> | 50.000   | 49.304     | 106463.79  | 0.0195 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 125.000  | 126.411    | 268906.35  | 0.0497 | P   | 5.4 |
| 6 | <input type="checkbox"/> | 250.000  | 242.265    | 539086.31  | 0.0950 | P   | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 506.119    | 1094803.51 | 0.1983 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.733    | 2206910.12 | 0.3910 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 8842.18    | 0.0016 | P   | 3.1 |

$$y = 3.9125E-004 * x + 2.5126E-004$$

$$R = 0.9999$$

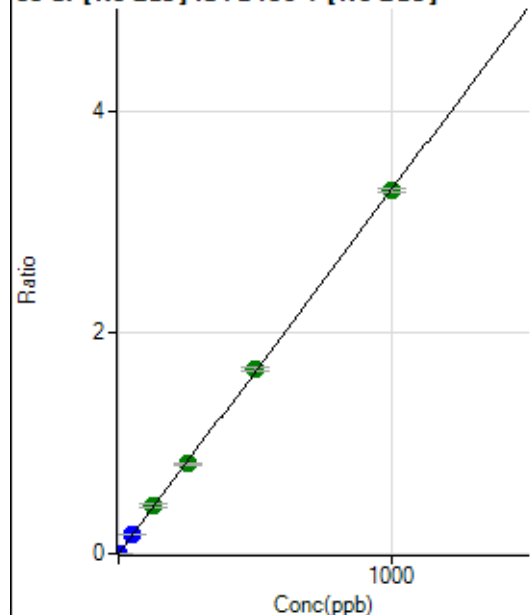
$$DL = 0.1582$$

$$BEC = 0.6422$$

Weight: &lt;None&gt;

Min Conc: 0

88 Sr [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      | 505.59      | 0.0001 | P   | 20.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.773      | 14580.58    | 0.0026 | P   | 2.5  |
| 4 | <input type="checkbox"/> | 50.000   | 50.477     | 906777.22   | 0.1664 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 130.369    | 2323371.99  | 0.4297 | A   | 6.9  |
| 6 | <input type="checkbox"/> | 250.000  | 246.227    | 4603434.95  | 0.8115 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 506.642    | 9219691.87  | 1.6697 | A   | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.928    | 18542222.64 | 3.2855 | A   | 0.9  |
| 9 | <input type="checkbox"/> |          |            | 67752.39    | 0.0119 | P   | 2.2  |

$$y = 0.0033 * x + 9.0162E-005$$

$$R = 0.9999$$

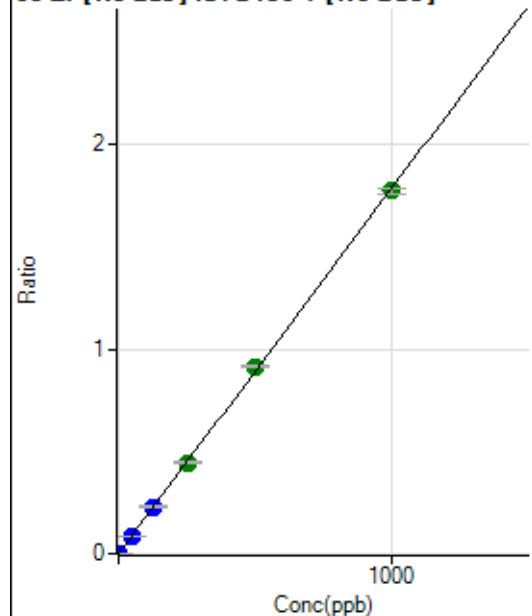
$$DL = 0.01678$$

$$BEC = 0.02736$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 461.14      | 0.0001 | P   | 11.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.856      | 8900.55     | 0.0016 | P   | 4.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.579     | 482920.23   | 0.0886 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 128.097    | 1238003.06  | 0.2289 | P   | 5.8  |
| 6 | <input type="checkbox"/> | 250.000  | 248.836    | 2521553.01  | 0.4446 | A   | 1.7  |
| 7 | <input type="checkbox"/> | 500.000  | 512.364    | 5053724.38  | 0.9153 | A   | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.743    | 10017737.81 | 1.7751 | A   | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 2255.85     | 0.0004 | P   | 5.0  |

$$y = 0.0018 * x + 8.2265E-005$$

$$R = 0.9999$$

$$DL = 0.01628$$

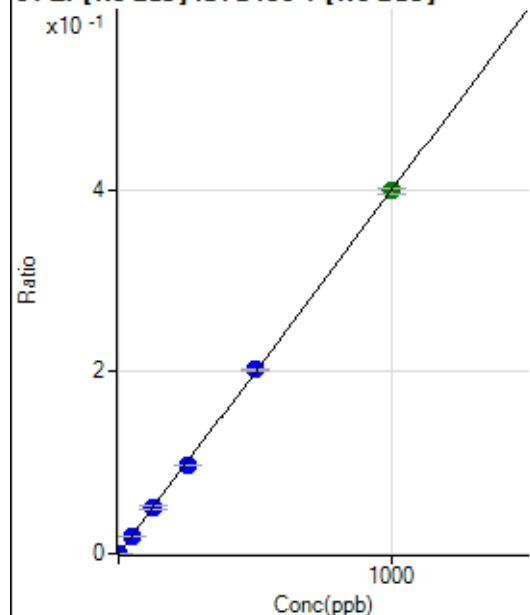
$$BEC = 0.04606$$

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      | 91.67      | 0.0000 | P   | 31.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.822      | 1905.79    | 0.0003 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 50.000   | 48.907     | 106492.59  | 0.0195 | P   | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 126.519    | 273305.64  | 0.0505 | P   | 6.5  |
| 6 | <input type="checkbox"/> | 250.000  | 242.891    | 550275.46  | 0.0970 | P   | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 505.970    | 1115757.41 | 0.2021 | P   | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.657    | 2250722.68 | 0.3988 | A   | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 555.60     | 0.0001 | P   | 10.8 |

$$y = 3.9934\text{E-}004 * x + 1.6360\text{E-}005$$

$$R = 0.9999$$

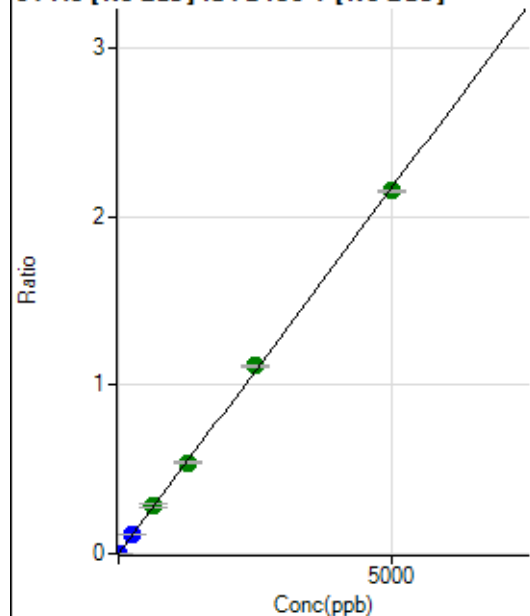
$$DL = 0.03905$$

$$BEC = 0.04097$$

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      | 194.45      | 0.0000 | P   | 21.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.485      | 10952.11    | 0.0020 | P   | 6.1  |
| 4 | <input type="checkbox"/> | 250.000  | 251.400    | 594959.33   | 0.1092 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 651.173    | 1529116.42  | 0.2828 | A   | 6.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1244.936   | 3066529.41  | 0.5406 | A   | 1.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2568.574   | 6158738.29  | 1.1154 | A   | 1.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4963.638   | 12165137.08 | 2.1555 | A   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 4862.22     | 0.0009 | P   | 2.6  |

$$y = 4.3425\text{E-}004 * x + 3.4677\text{E-}005$$

$$R = 0.9998$$

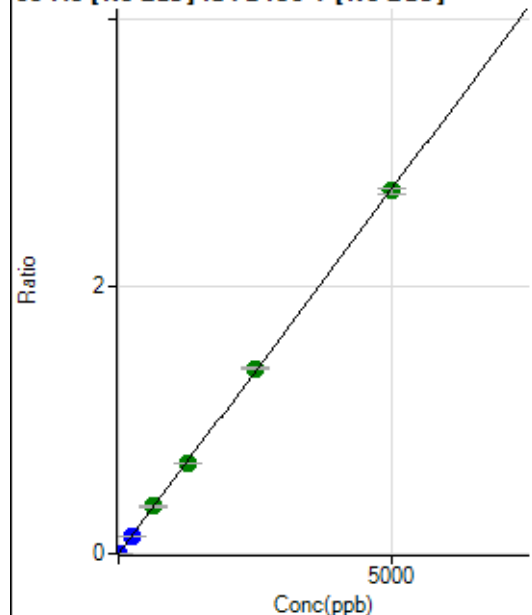
$$DL = 0.05026$$

$$BEC = 0.07986$$

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      | 83.34       | 0.0000 | P   | 17.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.592      | 13943.93    | 0.0025 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 250.000  | 248.368    | 738941.68   | 0.1356 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 625.000  | 650.189    | 1919840.82  | 0.3550 | A   | 6.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1238.367   | 3835496.61  | 0.6762 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 2500.000 | 2541.969   | 7663877.52  | 1.3880 | A   | 1.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 4978.857   | 15342542.36 | 2.7187 | A   | 1.4  |
| 9 | <input type="checkbox"/> |          |            | 7057.68     | 0.0012 | P   | 2.1  |

$$y = 5.4604\text{E-}004 * x + 1.4867\text{E-}005$$

$$R = 0.9999$$

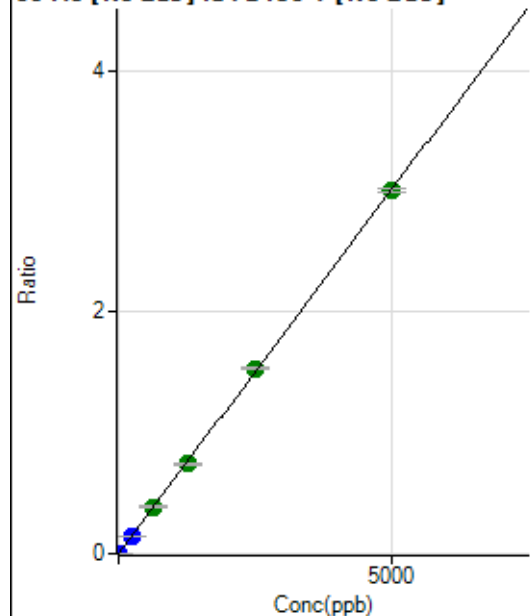
$$DL = 0.01425$$

$$BEC = 0.02723$$

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      | 102.78      | 0.0000 | P   | 19.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.709      | 15784.80    | 0.0029 | P   | 4.1  |
| 4 | <input type="checkbox"/> | 250.000  | 249.880    | 820426.54   | 0.1506 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 625.000  | 646.381    | 2106693.51  | 0.3895 | A   | 5.9  |
| 6 | <input type="checkbox"/> | 1250.000 | 1229.378   | 4201883.69  | 0.7408 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 2500.000 | 2537.660   | 8443128.22  | 1.5291 | A   | 1.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 4983.659   | 16947760.80 | 3.0030 | A   | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 9081.22     | 0.0016 | P   | 4.2  |

$$y = 6.0257\text{E-}004 * x + 1.8339\text{E-}005$$

$$R = 0.9999$$

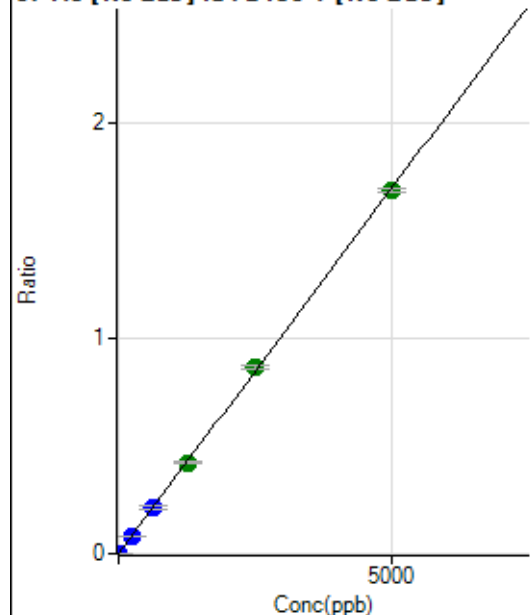
$$DL = 0.01735$$

$$BEC = 0.03043$$

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      | 150.01     | 0.0000 | P   | 34.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.478      | 8555.93    | 0.0015 | P   | 3.7  |
| 4 | <input type="checkbox"/> | 250.000  | 247.308    | 457947.95  | 0.0841 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 635.371    | 1167279.00 | 0.2159 | P   | 7.1  |
| 6 | <input type="checkbox"/> | 1250.000 | 1249.288   | 2407965.18 | 0.4245 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2562.698   | 4807655.49 | 0.8708 | A   | 2.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4967.668   | 9526002.64 | 1.6879 | A   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 4570.44    | 0.0008 | P   | 4.7  |

$$y = 3.3977\text{E-}004 * x + 2.6772\text{E-}005$$

$$R = 0.9999$$

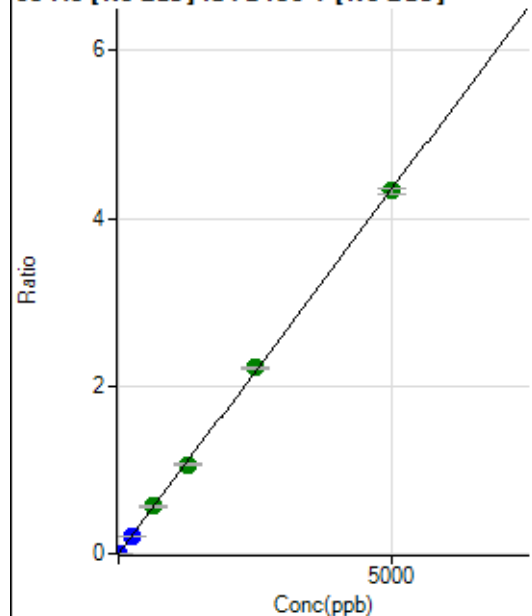
$$DL = 0.08054$$

$$BEC = 0.07879$$

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      | 105.56      | 0.0000 | P   | 36.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.658      | 22477.73    | 0.0041 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 250.000  | 247.703    | 1172840.72  | 0.2153 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 647.724    | 3044373.31  | 0.5629 | A   | 6.0  |
| 6 | <input type="checkbox"/> | 1250.000 | 1218.685   | 6006910.42  | 1.0591 | A   | 1.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2549.040   | 12230880.83 | 2.2151 | A   | 1.2  |
| 8 | <input type="checkbox"/> | 5000.000 | 4980.583   | 24427720.51 | 4.3281 | A   | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 10824.25    | 0.0019 | P   | 3.6  |

$$y = 8.6900\text{E-}004 * x + 1.8824\text{E-}005$$

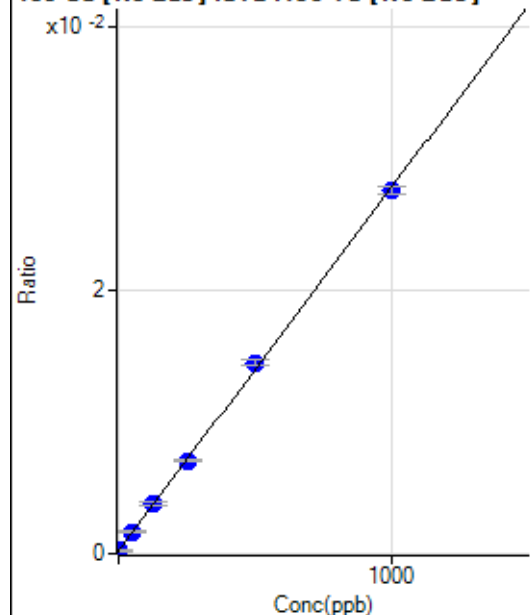
$$R = 0.9999$$

$$DL = 0.02361$$

$$BEC = 0.02166$$

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      | 1158.44   | 0.0002 | P   | 15.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.520      | 1230.67   | 0.0002 | P   | 12.8 |
| 4 | <input type="checkbox"/> | 50.000   | 53.112     | 8869.97   | 0.0017 | P   | 4.3  |
| 5 | <input type="checkbox"/> | 125.000  | 131.842    | 20399.59  | 0.0039 | P   | 6.7  |
| 6 | <input type="checkbox"/> | 250.000  | 246.816    | 39470.05  | 0.0070 | P   | 1.7  |
| 7 | <input type="checkbox"/> | 500.000  | 518.275    | 78799.93  | 0.0145 | P   | 2.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.648    | 153057.11 | 0.0276 | P   | 2.1  |
| 9 | <input type="checkbox"/> |          |            | 1202.89   | 0.0002 | P   | 10.2 |

$$y = 2.7611\text{E-}005 * x + 2.1355\text{E-}004$$

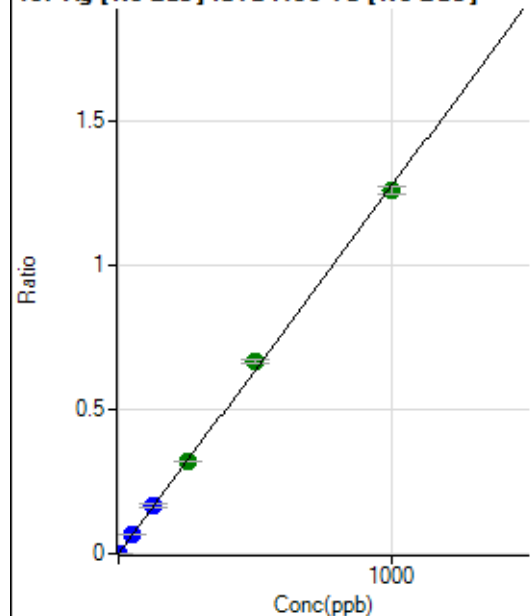
$$R = 0.9997$$

$$DL = 3.642$$

$$BEC = 7.734$$

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      | 225.01     | 0.0000 | P   | 19.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.047      | 7427.36    | 0.0014 | P   | 6.4  |
| 4 | <input type="checkbox"/> | 50.000   | 51.783     | 348773.74  | 0.0661 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 130.988    | 884546.15  | 0.1671 | P   | 5.9  |
| 6 | <input type="checkbox"/> | 250.000  | 250.841    | 1796196.81 | 0.3199 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 523.694    | 3623146.35 | 0.6678 | A   | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 987.105    | 6988637.05 | 1.2586 | A   | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 902.85     | 0.0002 | P   | 1.6  |

$$y = 0.0013 * x + 4.1489\text{E-}005$$

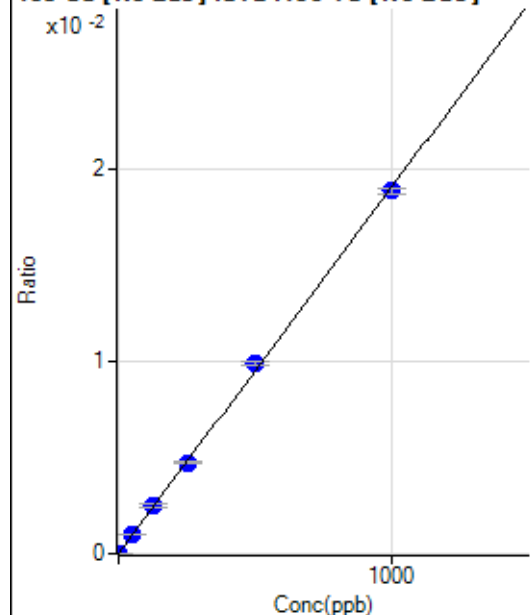
$$R = 0.9996$$

$$DL = 0.01876$$

$$BEC = 0.03254$$

Weight: &lt;None&gt;

Min Conc: 0

**108 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      | 16.67     | 0.0000 | P   | 24.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.811      | 100.00    | 0.0000 | P   | 14.3 |
| 4 | <input type="checkbox"/> | 50.000   | 51.507     | 5198.34   | 0.0010 | P   | 3.0  |
| 5 | <input type="checkbox"/> | 125.000  | 130.975    | 13231.74  | 0.0025 | P   | 6.3  |
| 6 | <input type="checkbox"/> | 250.000  | 248.226    | 26584.97  | 0.0047 | P   | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 518.055    | 53592.48  | 0.0099 | P   | 1.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 990.594    | 104869.29 | 0.0189 | P   | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 23.61     | 0.0000 | P   | 35.3 |

$$y = 1.9060\text{E-}005 * x + 3.0713\text{E-}006$$

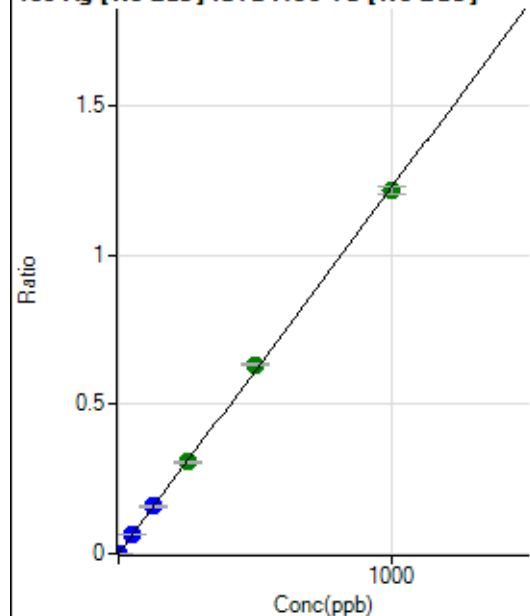
$$R = 0.9997$$

$$DL = 0.1186$$

$$BEC = 0.1611$$

Weight: &lt;None&gt;

Min Conc: 0

**109 Ag [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      | 150.01     | 0.0000 | P   | 11.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.030      | 6963.25    | 0.0013 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 50.000   | 51.343     | 332454.96  | 0.0630 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 129.055    | 837774.12  | 0.1583 | P   | 6.5  |
| 6 | <input type="checkbox"/> | 250.000  | 250.439    | 1724330.81 | 0.3071 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 516.367    | 3435532.85 | 0.6331 | A   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.133    | 6747020.20 | 1.2152 | A   | 2.2  |
| 9 | <input type="checkbox"/> |          |            | 780.61     | 0.0001 | P   | 2.0  |

$$y = 0.0012 * x + 2.7670\text{E-}005$$

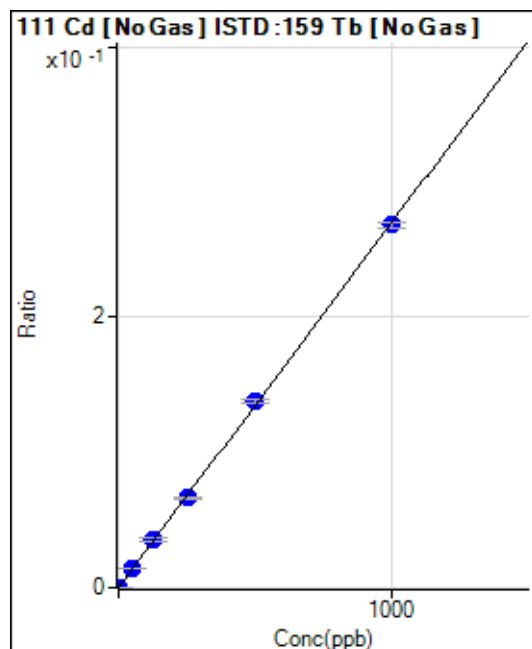
$$R = 0.9998$$

$$DL = 0.007778$$

$$BEC = 0.02257$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 829.80     | 0.0002 | P    | 14.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.916      | 2158.23    | 0.0004 | P    | 4.9  |
| 4 | <input type="checkbox"/> | 50.000   | 51.787     | 74515.40   | 0.0141 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 130.765    | 187443.02  | 0.0354 | P    | 6.4  |
| 6 | <input type="checkbox"/> | 250.000  | 245.176    | 372037.72  | 0.0663 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 511.518    | 749098.36  | 0.1381 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.637    | 1489805.74 | 0.2683 | P    | 1.7  |
| 9 | <input type="checkbox"/> |          |            | 900.50     | 0.0002 | P    | 10.1 |

$$y = 2.6960\text{E-}004 * x + 1.5297\text{E-}004$$

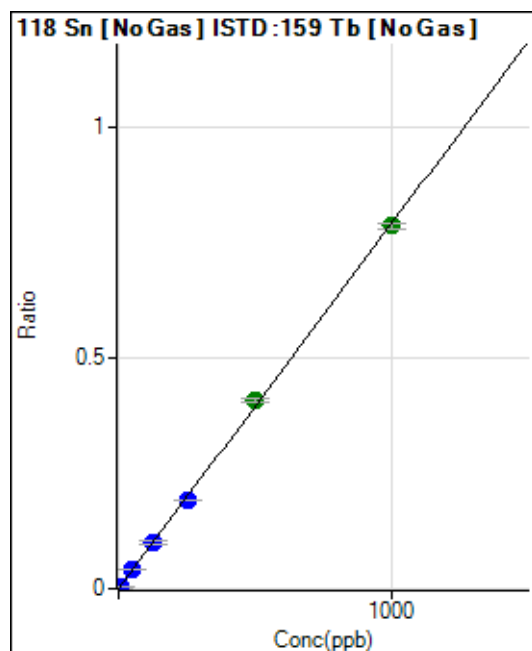
$$R = 0.9999$$

$$DL = 0.2479$$

$$BEC = 0.5674$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 419.47     | 0.0001 | P    | 3.5 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.799      | 20939.44   | 0.0039 | P    | 2.7 |
| 4 | <input type="checkbox"/> | 50.000   | 50.338     | 210970.02  | 0.0400 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 127.396    | 534867.82  | 0.1010 | P    | 6.0 |
| 6 | <input type="checkbox"/> | 250.000  | 241.020    | 1072869.48 | 0.1911 | P    | 0.9 |
| 7 | <input type="checkbox"/> | 500.000  | 516.047    | 2219053.80 | 0.4090 | A    | 1.8 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.906    | 4373466.98 | 0.7876 | A    | 1.4 |
| 9 | <input type="checkbox"/> |          |            | 2514.24    | 0.0005 | P    | 6.3 |

$$y = 7.9237\text{E-}004 * x + 7.7335\text{E-}005$$

$$R = 0.9998$$

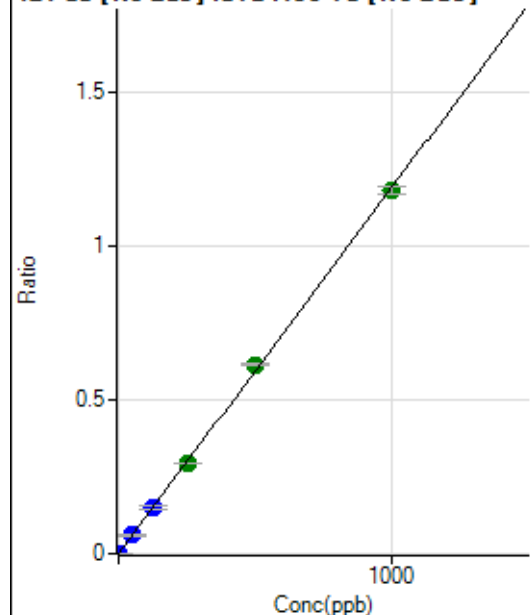
$$DL = 0.0102$$

$$BEC = 0.0976$$

Weight: &lt;None&gt;

Min Conc: 0

121 Sb [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      | 122.23     | 0.0000 | P   | 32.2 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.832      | 11889.23   | 0.0022 | P   | 3.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.176     | 315270.00  | 0.0597 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 125.000  | 127.121    | 800827.39  | 0.1513 | P   | 6.4  |
| 6 | <input type="checkbox"/> | 250.000  | 247.917    | 1656556.74 | 0.2950 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 516.389    | 3333942.18 | 0.6144 | A   | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.053    | 6553789.17 | 1.1804 | A   | 2.1  |
| 9 | <input type="checkbox"/> |          |            | 7872.09    | 0.0014 | P   | 1.9  |

$$y = 0.0012 * x + 2.2568E-005$$

$$R = 0.9998$$

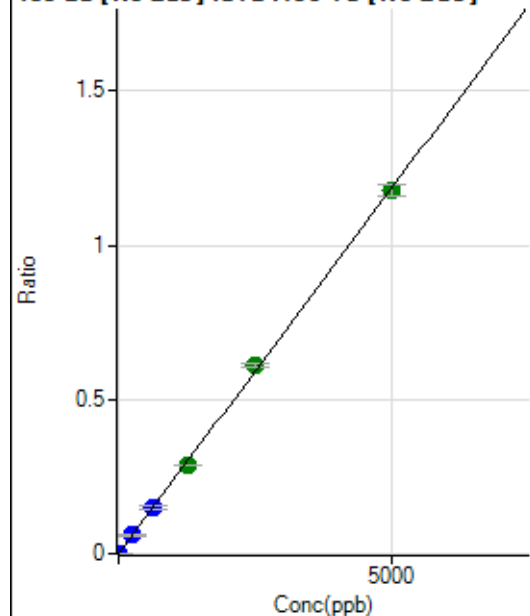
$$DL = 0.0183$$

$$BEC = 0.01897$$

Weight: &lt;None&gt;

Min Conc: 0

135 Ba [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      | 55.56      | 0.0000 | P   | 48.0 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.706      | 12456.43   | 0.0023 | P   | 7.0  |
| 4 | <input type="checkbox"/> | 250.000  | 250.272    | 312831.78  | 0.0593 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 639.383    | 801286.81  | 0.1514 | P   | 6.7  |
| 6 | <input type="checkbox"/> | 1250.000 | 1217.596   | 1618718.80 | 0.2883 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 2500.000 | 2578.534   | 3312282.67 | 0.6104 | A   | 1.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4967.023   | 6528016.98 | 1.1759 | A   | 3.1  |
| 9 | <input type="checkbox"/> |          |            | 647.27     | 0.0001 | P   | 15.1 |

$$y = 2.3674E-004 * x + 1.0239E-005$$

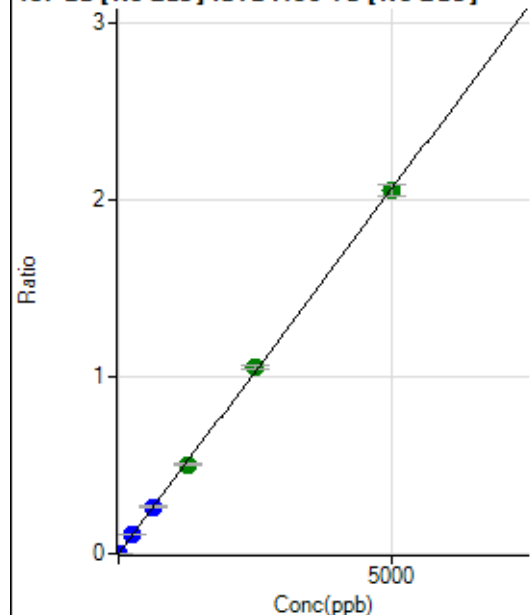
$$R = 0.9998$$

$$DL = 0.06234$$

$$BEC = 0.04325$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>137</sup>Ba [No Gas] ISTD : <sup>159</sup>Tb [No Gas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 136.12      | 0.0000 | P    | 20.3 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.678      | 21643.57    | 0.0040 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 250.000  | 250.962    | 545687.13   | 0.1034 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 641.480    | 1398694.23  | 0.2642 | P    | 6.0  |
| 6 | <input type="checkbox"/> | 1250.000 | 1224.337   | 2831261.00  | 0.5042 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 2500.000 | 2555.330   | 5709377.51  | 1.0523 | A    | 2.1  |
| 8 | <input type="checkbox"/> | 5000.000 | 4976.644   | 11377150.60 | 2.0493 | A    | 3.0  |
| 9 | <input type="checkbox"/> |          |            | 1050.09     | 0.0002 | P    | 10.6 |

$$y = 4.1179\text{E-}004 * x + 2.5118\text{E-}005$$

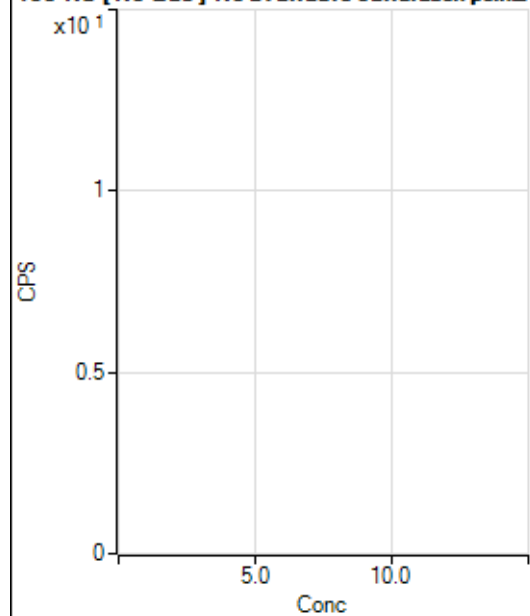
$$R = 0.9999$$

$$DL = 0.0371$$

$$BEC = 0.061$$

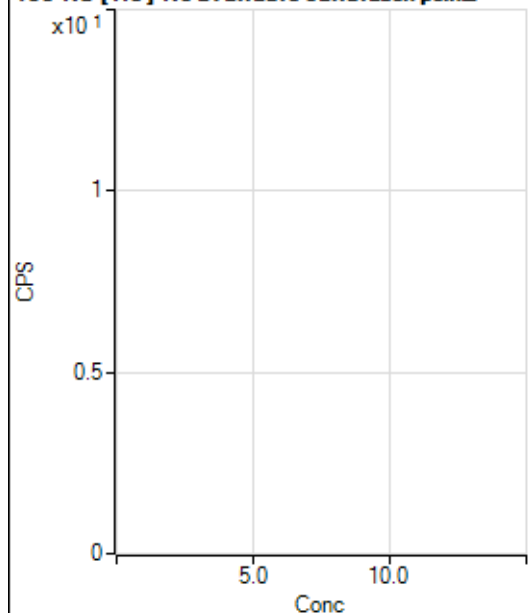
Weight: &lt;None&gt;

Min Conc: 0

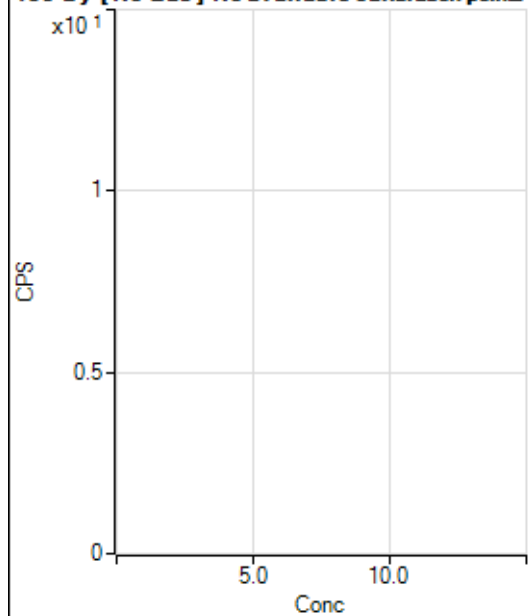
**<sup>150</sup>Nd [No Gas] No available calibration points**

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD   |
|---|--------------------------|-------|------------|--------|-------|------|-------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P    | 124.9 |
| 2 | <input type="checkbox"/> |       |            |        |       |      |       |
| 3 | <input type="checkbox"/> |       |            | 15.56  |       | P    | 65.5  |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P    | 45.8  |
| 5 | <input type="checkbox"/> |       |            | 28.89  |       | P    | 26.6  |
| 6 | <input type="checkbox"/> |       |            | 97.78  |       | P    | 27.6  |
| 7 | <input type="checkbox"/> |       |            | 117.78 |       | P    | 29.0  |
| 8 | <input type="checkbox"/> |       |            | 233.34 |       | P    | 10.3  |
| 9 | <input type="checkbox"/> |       |            | 126.67 |       | P    | 13.9  |

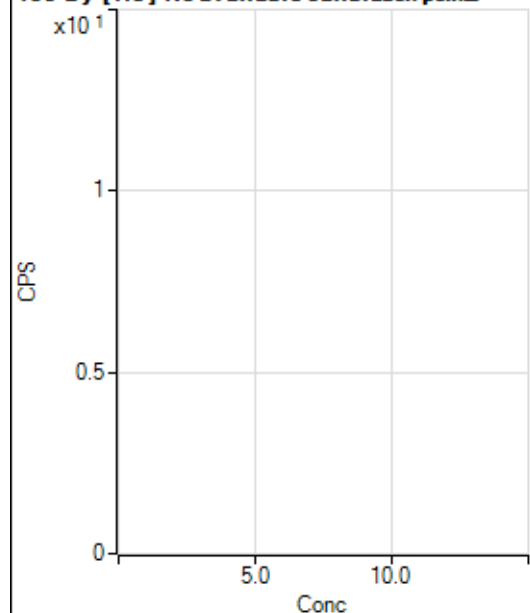


**150 Nd [He] No available calibration points**

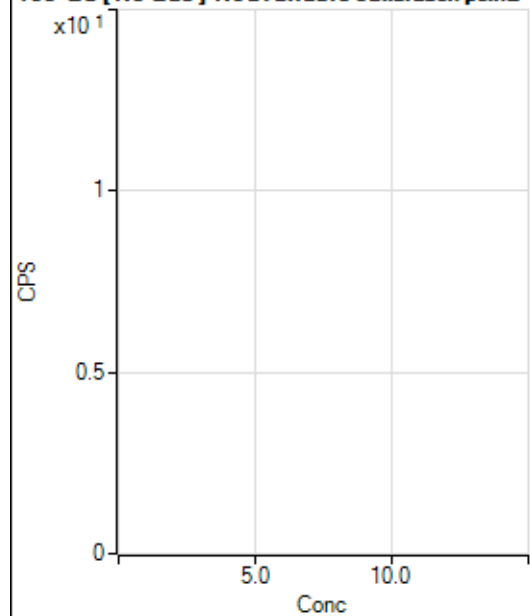
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 4 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 5 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173.2 |
| 6 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 173.2 |
| 7 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 8 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 15.7  |
| 9 | <input type="checkbox"/> |       |            | 15.56 |       | P        | 32.7  |

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

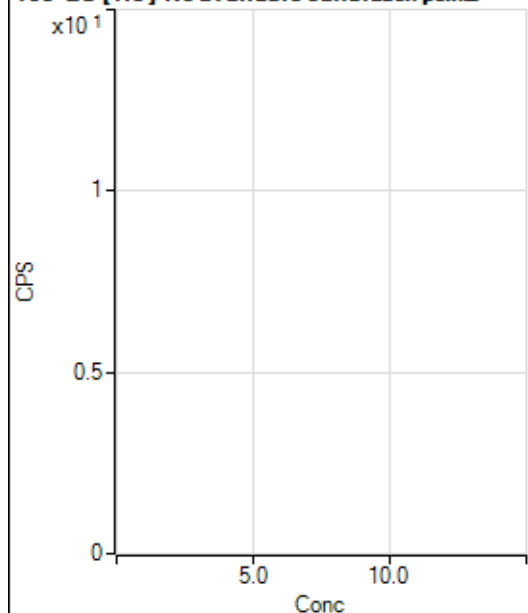
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 57.3 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 78.1 |
| 5 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 45.8 |
| 6 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 40.0 |
| 8 | <input type="checkbox"/> |       |            | 63.89 |       | P        | 52.7 |
| 9 | <input type="checkbox"/> |       |            | 69.45 |       | P        | 27.7 |

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

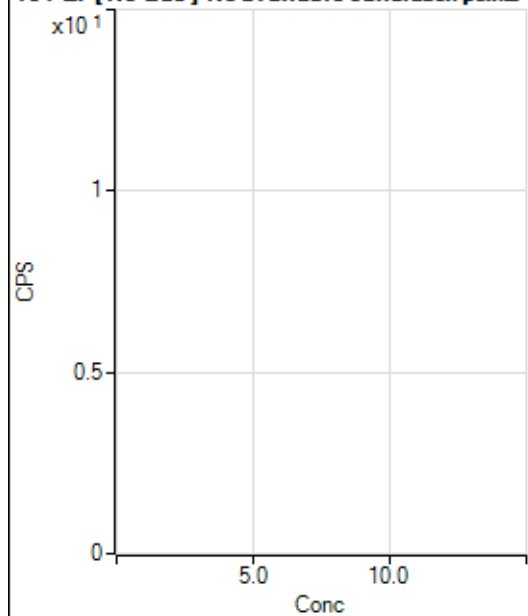
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 4 | <input type="checkbox"/> |       |            | 0.00  |       | P        |       |
| 5 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0   |
| 6 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 7 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 8 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7  |
| 9 | <input type="checkbox"/> |       |            | 23.33 |       | P        | 51.5  |

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

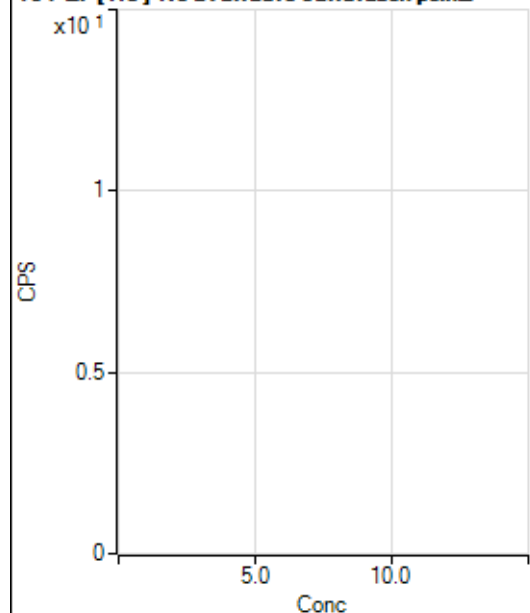
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 20.0  |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 33.34 |       | P        | 43.3  |
| 4 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 35.3  |
| 5 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 33.3  |
| 6 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 100.0 |
| 7 | <input type="checkbox"/> |       |            | 41.67 |       | P        | 34.6  |
| 8 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 35.3  |
| 9 | <input type="checkbox"/> |       |            | 66.67 |       | P        | 12.5  |

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

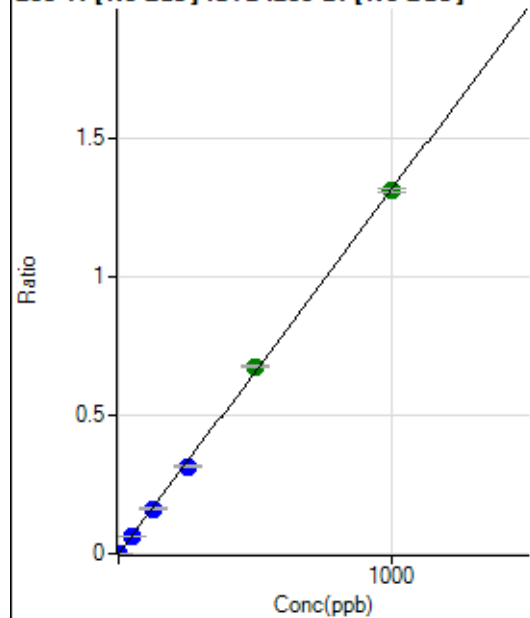
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 114.6 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4  |
| 4 | <input type="checkbox"/> |       |            | 6.66  |       | P        | 86.6  |
| 5 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7  |
| 6 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3  |
| 7 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 27.0  |
| 8 | <input type="checkbox"/> |       |            | 6.66  |       | P        | 86.6  |
| 9 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 60.6  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 30.56 |       | P        | 41.7 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 21.6 |
| 4 | <input type="checkbox"/> |       |            | 38.89 |       | P        | 65.5 |
| 5 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 57.3 |
| 6 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 35.3 |
| 7 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 48.0 |
| 8 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 33.3 |
| 9 | <input type="checkbox"/> |       |            | 55.56 |       | P        | 22.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det | RSD   |
|---|--------------------------|-------|------------|-------|-------|-----|-------|
| 1 | <input type="checkbox"/> |       |            | 5.56  |       | P   | 34.7  |
| 2 | <input type="checkbox"/> |       |            |       |       |     |       |
| 3 | <input type="checkbox"/> |       |            | 1.11  |       | P   | 173.2 |
| 4 | <input type="checkbox"/> |       |            | 6.67  |       | P   | 50.0  |
| 5 | <input type="checkbox"/> |       |            | 3.33  |       | P   | 100.1 |
| 6 | <input type="checkbox"/> |       |            | 7.78  |       | P   | 24.7  |
| 7 | <input type="checkbox"/> |       |            | 5.55  |       | P   | 124.9 |
| 8 | <input type="checkbox"/> |       |            | 10.00 |       | P   | 66.7  |
| 9 | <input type="checkbox"/> |       |            | 7.78  |       | P   | 89.2  |

**203 Tl [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      | 119.45     | 0.0000 | P   | 15.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.940      | 3897.99    | 0.0013 | P   | 3.3  |
| 4 | <input type="checkbox"/> | 50.000   | 48.415     | 189992.24  | 0.0638 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 123.883    | 488791.26  | 0.1631 | P   | 5.5  |
| 6 | <input type="checkbox"/> | 250.000  | 238.545    | 998377.90  | 0.3140 | P   | 2.2  |
| 7 | <input type="checkbox"/> | 500.000  | 513.190    | 2060080.25 | 0.6754 | A   | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.488    | 4075003.39 | 1.3115 | A   | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 372.25     | 0.0001 | P   | 22.8 |

$$y = 0.0013 * x + 3.8875E-005$$

$$R = 0.9998$$

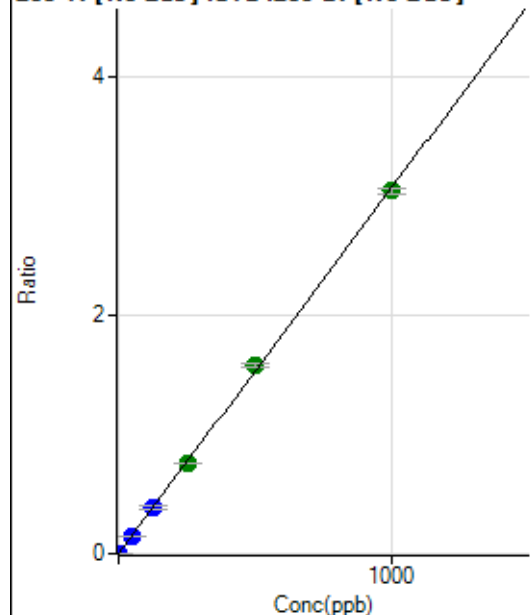
$$DL = 0.01337$$

$$BEC = 0.02954$$

Weight: <None>

Min Conc: 0

205 Tl [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      | 227.79     | 0.0001 | P   | 16.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.862      | 8308.69    | 0.0027 | P   | 5.6  |
| 4 | <input type="checkbox"/> | 50.000   | 49.578     | 453852.20  | 0.1523 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 127.289    | 1171449.48 | 0.3909 | P   | 6.1  |
| 6 | <input type="checkbox"/> | 250.000  | 246.870    | 2410727.03 | 0.7581 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 500.000  | 516.929    | 4841066.99 | 1.5873 | A   | 2.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.053    | 9464907.07 | 3.0462 | A   | 1.4  |
| 9 | <input type="checkbox"/> |          |            | 763.95     | 0.0003 | P   | 7.9  |

$$y = 0.0031 * x + 7.4040E-005$$

$$R = 0.9998$$

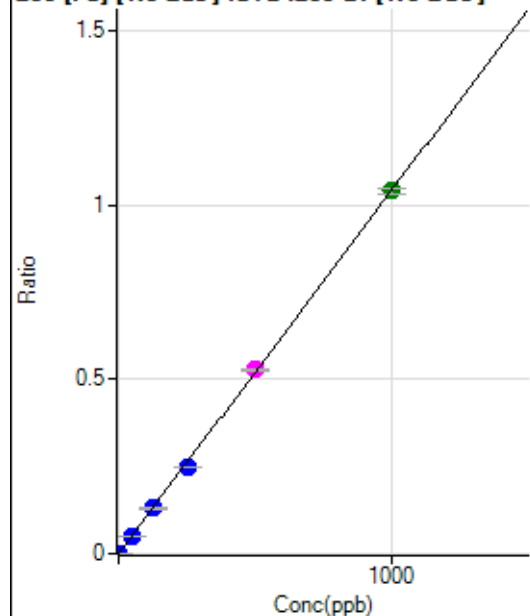
$$DL = 0.01184$$

$$BEC = 0.02411$$

Weight: &lt;None&gt;

Min Conc: 0

206 [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      | 409.28     | 0.0001 | P   | 9.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.876      | 3187.53    | 0.0010 | P   | 3.6 |
| 4 | <input type="checkbox"/> | 50.000   | 49.671     | 154363.84  | 0.0518 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 125.094    | 390317.39  | 0.1303 | P   | 6.3 |
| 6 | <input type="checkbox"/> | 250.000  | 238.449    | 789135.35  | 0.2482 | P   | 1.8 |
| 7 | <input type="checkbox"/> | 500.000  | 506.995    | 1608885.65 | 0.5275 | M   | 1.4 |
| 8 | <input type="checkbox"/> | 1000.000 | 999.395    | 3230357.31 | 1.0397 | A   | 1.8 |
| 9 | <input type="checkbox"/> |          |            | 4975.20    | 0.0017 | P   | 2.1 |

$$y = 0.0010 * x + 1.3307E-004$$

$$R = 0.9999$$

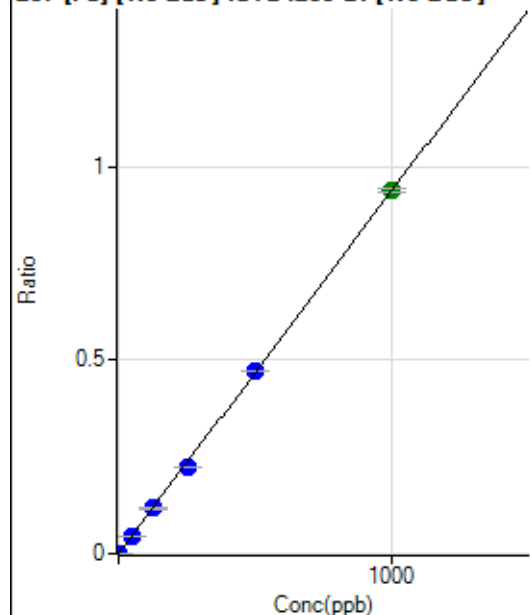
$$DL = 0.03747$$

$$BEC = 0.1279$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 338.91     | 0.0001 | P    | 13.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.849      | 2763.36    | 0.0009 | P    | 7.1  |
| 4 | <input type="checkbox"/> | 50.000   | 49.346     | 137975.75  | 0.0463 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 125.690    | 352969.08  | 0.1178 | P    | 5.6  |
| 6 | <input type="checkbox"/> | 250.000  | 239.259    | 712578.19  | 0.2241 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 500.000  | 503.763    | 1438632.74 | 0.4717 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.750   | 2911106.87 | 0.9369 | A    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 4208.22    | 0.0014 | P    | 7.8  |

$$y = 9.3608E-004 * x + 1.1020E-004$$

$$R = 0.9999$$

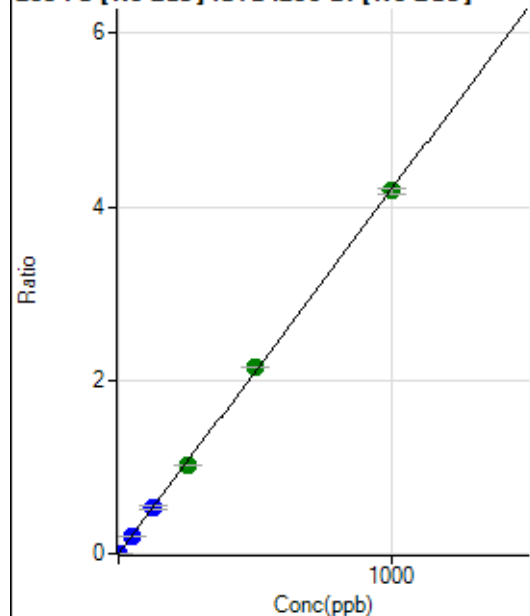
$$DL = 0.04829$$

$$BEC = 0.1177$$

Weight: &lt;None&gt;

Min Conc: 0

208 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      | 1576.02     | 0.0005 | P    | 11.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.886      | 12932.63    | 0.0042 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.612     | 622628.07   | 0.2089 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 125.000  | 126.025    | 1588314.96  | 0.5300 | P    | 5.8  |
| 6 | <input type="checkbox"/> | 250.000  | 241.924    | 3233666.84  | 1.0169 | A    | 1.5  |
| 7 | <input type="checkbox"/> | 500.000  | 511.952    | 6561615.47  | 2.1513 | A    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.934    | 13002053.39 | 4.1846 | A    | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 19228.39    | 0.0066 | P    | 1.6  |

$$y = 0.0042 * x + 5.1234E-004$$

$$R = 0.9999$$

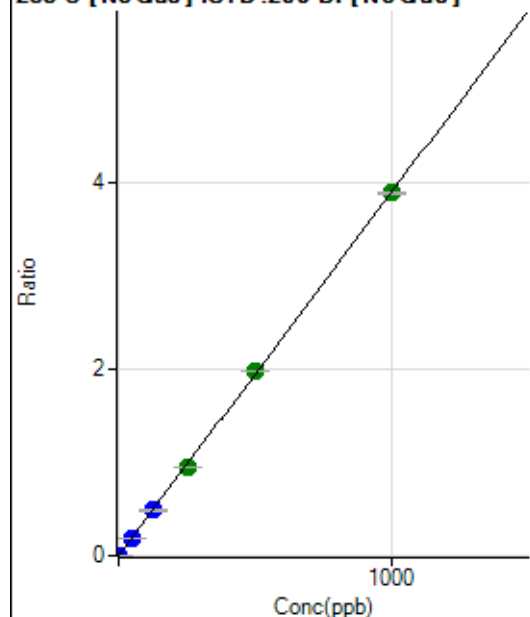
$$DL = 0.04286$$

$$BEC = 0.122$$

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      | 308.35      | 0.0001 | P   | 25.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.888      | 10880.28    | 0.0036 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 50.000   | 48.351     | 562122.27   | 0.1886 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 125.213    | 1463486.32  | 0.4883 | P   | 6.0  |
| 6 | <input type="checkbox"/> | 250.000  | 242.698    | 3009795.29  | 0.9464 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 500.000  | 507.123    | 6031691.72  | 1.9775 | A   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.320    | 12096225.01 | 3.8928 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 302.80      | 0.0001 | P   | 22.2 |

$$y = 0.0039 * x + 1.0034E-004$$

$$R = 0.9999$$

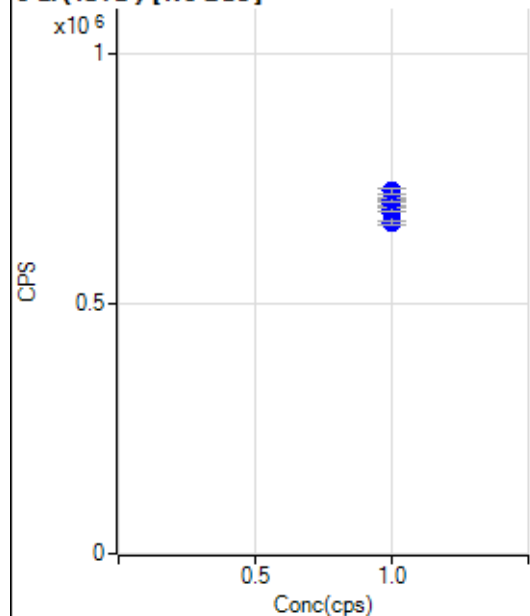
$$DL = 0.01939$$

$$BEC = 0.02573$$

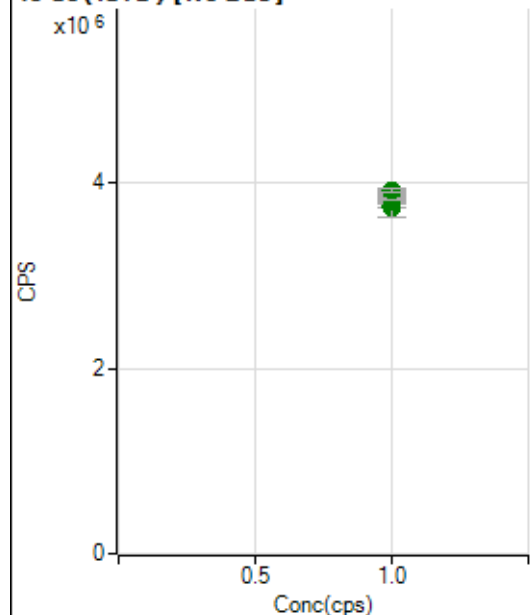
Weight: &lt;None&gt;

Min Conc: 0

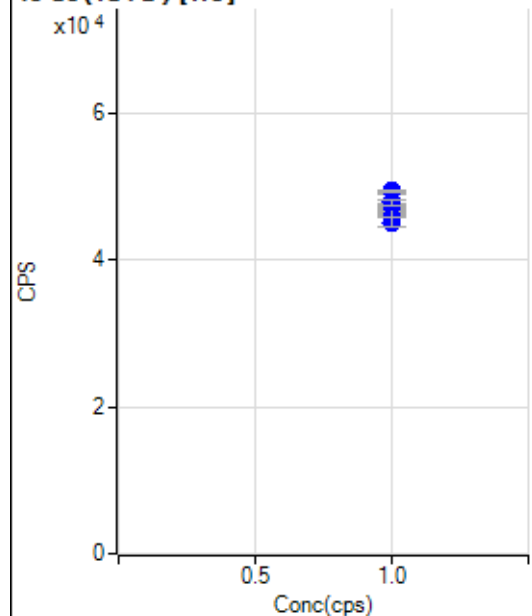
6 Li (ISTD) [No Gas]



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 700706.29 |       | P   | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 688522.69 |       | P   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 662062.75 |       | P   | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 678084.36 |       | P   | 4.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 708737.12 |       | P   | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 687557.57 |       | P   | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 705743.97 |       | P   | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 724718.95 |       | P   | 1.5 |

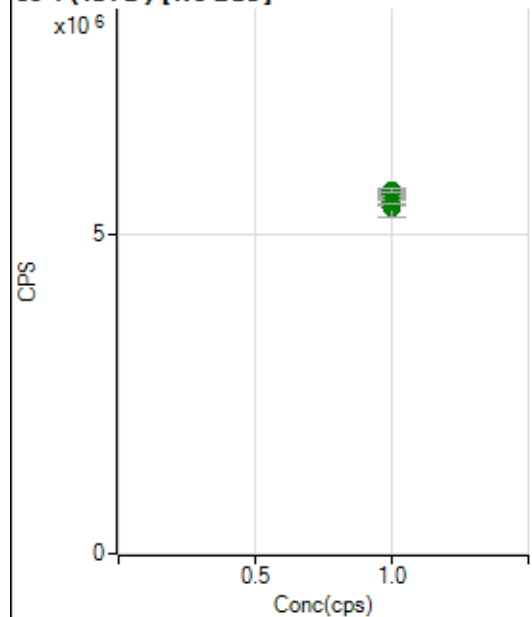
**45 Sc (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3866961.76 |       | A   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3823498.18 |       | A   | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3750616.27 |       | A   | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3733775.65 |       | A   | 5.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3898795.10 |       | A   | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3786670.14 |       | A   | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3821679.81 |       | A   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3911621.88 |       | A   | 1.1 |

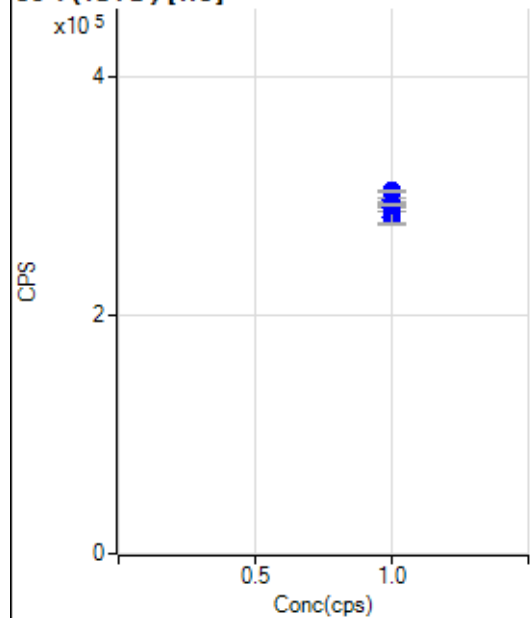
**45 Sc (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det | RSD |
|---|--------------------------|-------|------------|----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 47371.91 |       | P   | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |          |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 46647.34 |       | P   | 2.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 46719.88 |       | P   | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 46831.39 |       | P   | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 45195.90 |       | P   | 3.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 47369.62 |       | P   | 6.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 49443.42 |       | P   | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 47913.76 |       | P   | 1.5 |

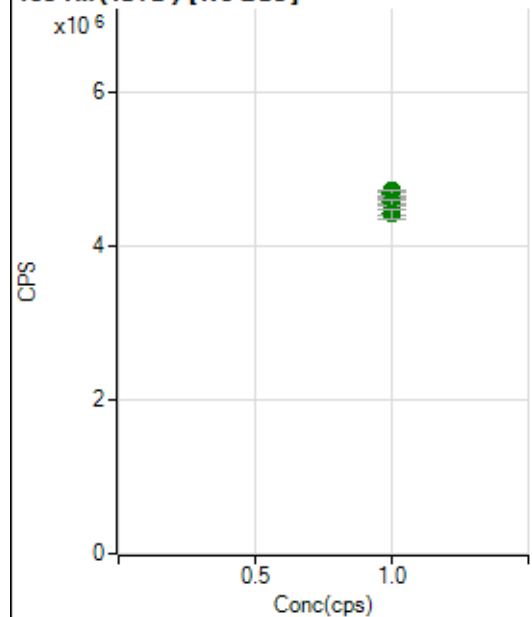


**89 Y (ISTD) [No Gas]**

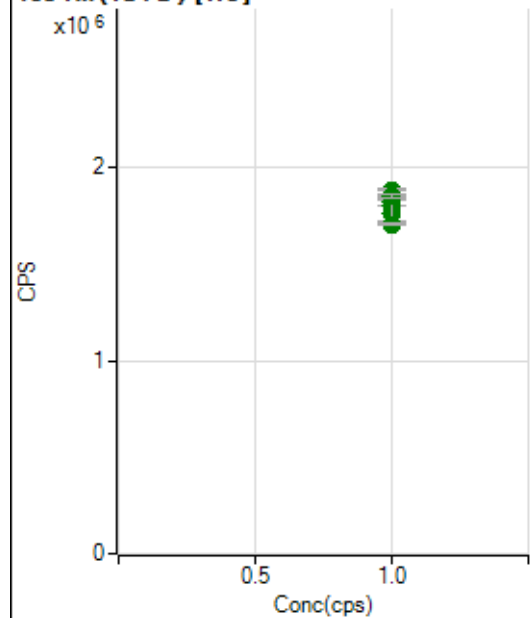
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5606349.84 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5528413.32 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5448153.18 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5419901.48 |       | A        | 5.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5673111.03 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5521902.49 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5644230.96 |       | A        | 1.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5688364.01 |       | A        | 1.2 |

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

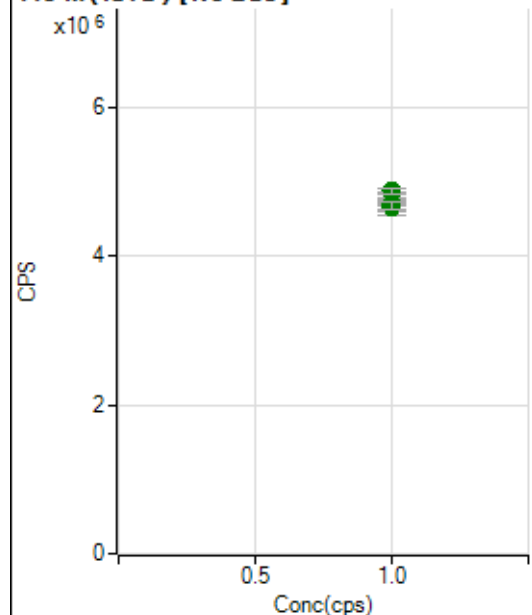
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 295552.65 |       | P        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 290970.53 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 291393.25 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 293101.03 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 281226.19 |       | P        | 3.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 289964.78 |       | P        | 8.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 303852.75 |       | P        | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 292301.30 |       | P        | 0.3 |

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

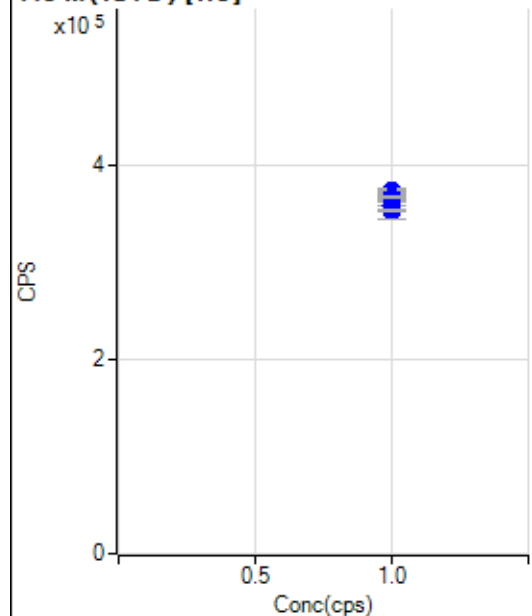
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4724073.28 |       | A   | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4678482.40 |       | A   | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4616853.83 |       | A   | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4535419.98 |       | A   | 5.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4697420.46 |       | A   | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4538737.52 |       | A   | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4576279.70 |       | A   | 1.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4426885.08 |       | A   | 2.9 |

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

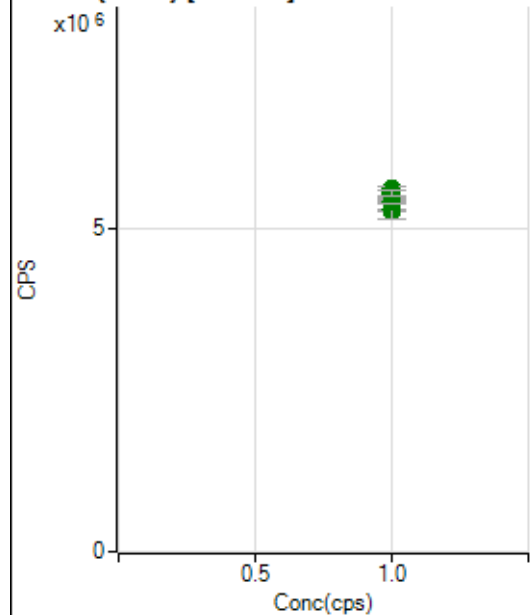
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1878140.88 |       | A   | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1843486.36 |       | A   | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1820767.79 |       | A   | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1841365.48 |       | A   | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1758759.47 |       | A   | 4.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1799745.56 |       | A   | 8.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1851941.22 |       | A   | 0.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1703510.37 |       | A   | 0.6 |

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

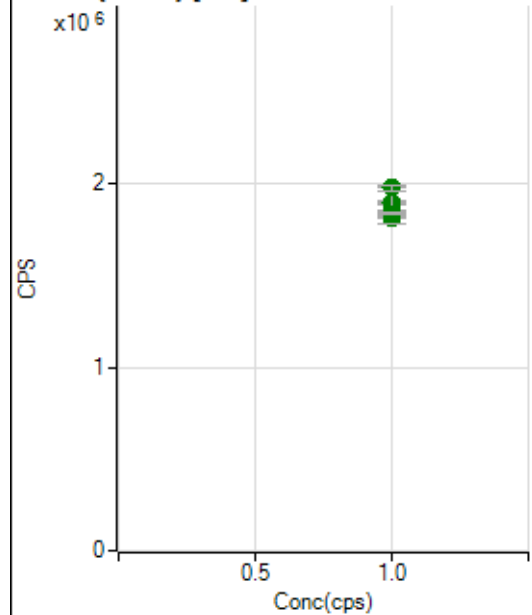
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4852223.41 |       | A   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4762152.50 |       | A   | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4707643.58 |       | A   | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4652054.35 |       | A   | 4.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4870523.30 |       | A   | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4636125.40 |       | A   | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4699596.01 |       | A   | 1.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4678296.43 |       | A   | 2.0 |

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

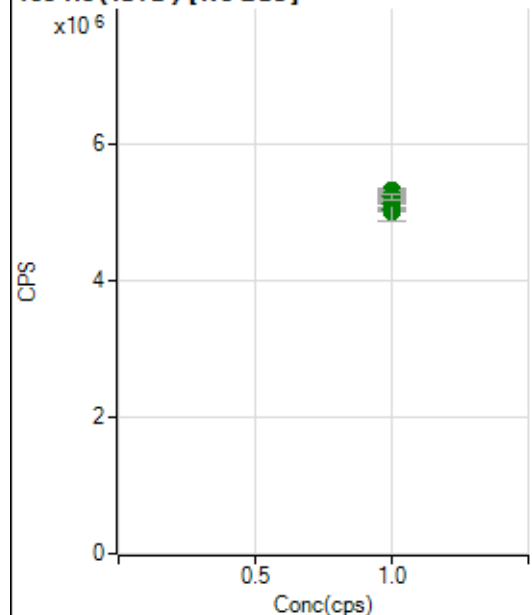
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 373124.01 |       | P   | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 366686.89 |       | P   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 365382.54 |       | P   | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 368385.40 |       | P   | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 351071.29 |       | P   | 3.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 358943.30 |       | P   | 8.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 366416.64 |       | P   | 0.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 353389.50 |       | P   | 0.8 |

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

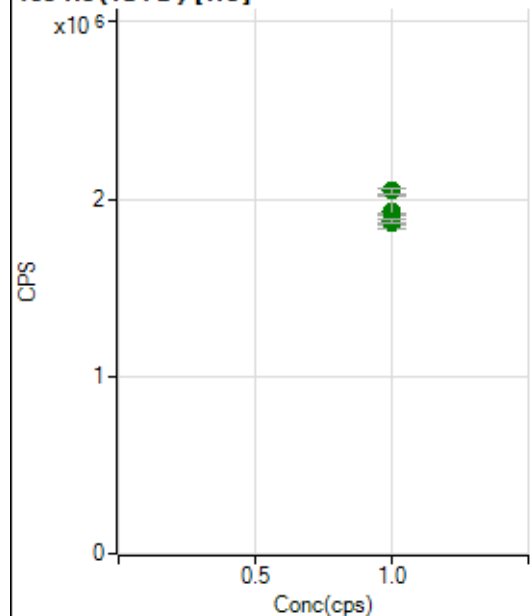
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5423216.38 |       | A   | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5397232.84 |       | A   | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5279126.90 |       | A   | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5306153.01 |       | A   | 5.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5615755.75 |       | A   | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5426694.99 |       | A   | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5553827.56 |       | A   | 2.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5550430.40 |       | A   | 1.4 |

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

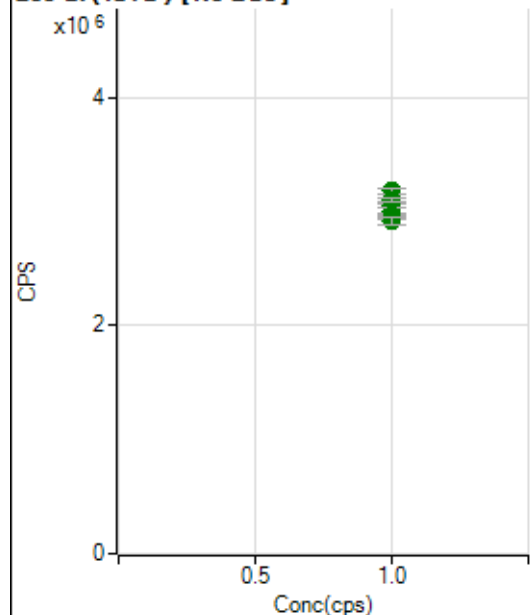
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1899978.48 |       | A   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1821246.71 |       | A   | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1852893.11 |       | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1888287.63 |       | A   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1815905.60 |       | A   | 3.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1899554.71 |       | A   | 8.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1979075.20 |       | A   | 1.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1839414.65 |       | A   | 0.9 |

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

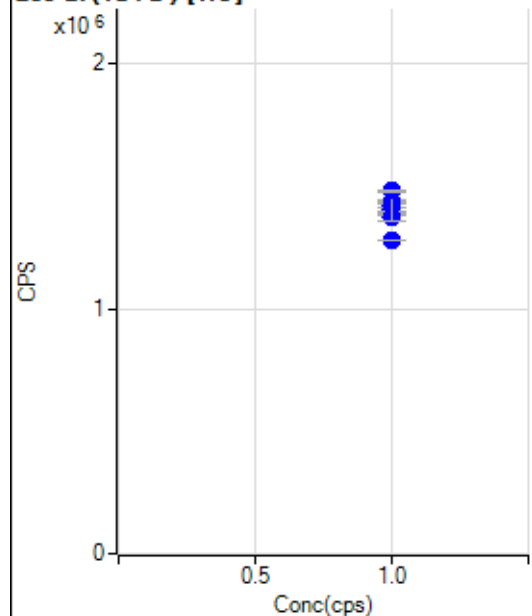
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5150752.68 |       | A   | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5130608.62 |       | A   | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5031148.98 |       | A   | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5038738.83 |       | A   | 6.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5321439.70 |       | A   | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5228298.99 |       | A   | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5309347.17 |       | A   | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5237069.61 |       | A   | 2.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1912913.98 |       | A   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1875414.33 |       | A   | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1878743.50 |       | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1917742.26 |       | A   | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1862480.99 |       | A   | 2.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1934332.89 |       | A   | 8.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2045964.05 |       | A   | 1.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1873870.37 |       | A   | 1.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3074598.29 |       | A   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 3054661.76 |       | A   | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2979991.24 |       | A   | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3002437.11 |       | A   | 4.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3180633.29 |       | A   | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3050168.12 |       | A   | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3107454.36 |       | A   | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 2917249.68 |       | A   | 2.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1436218.62 |       | P   | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1385333.50 |       | P   | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1405133.69 |       | P   | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1431462.76 |       | P   | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1376576.31 |       | P   | 3.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1418224.82 |       | P   | 8.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1480239.44 |       | P   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1276422.37 |       | P   | 0.2 |

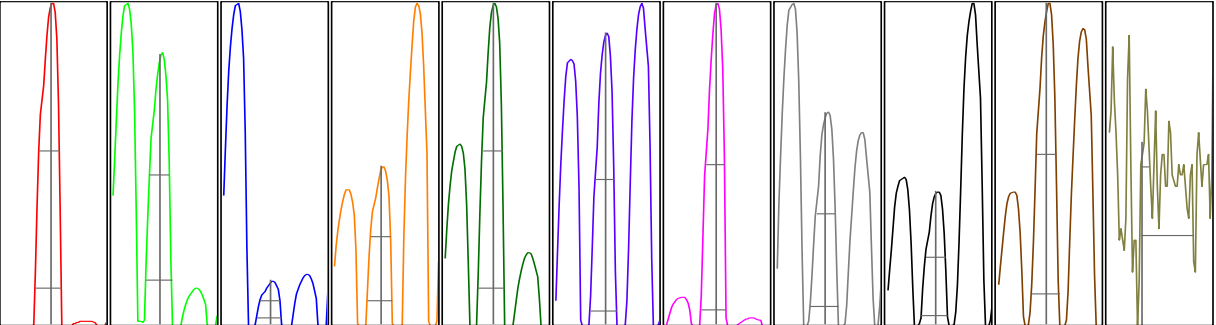
US EPA Tune Check Sample Report

Batch Folder D:\P8031419MS.b  
Report Comment  
Instrument Name G8403A JP17141814

| [No Gas] |                 |                  |                    |                |
|----------|-----------------|------------------|--------------------|----------------|
| Mass     | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
| 9        | 4144            | 3.13             | 5.00               |                |
| 24       | 53573           | 2.35             | 5.00               |                |
| 25       | 7469            | 2.55             | 5.00               |                |
| 26       | 9128            | 2.63             | 5.00               |                |
| 59       | 45720           | 2.72             | 5.00               |                |
| 113      | 5466            | 1.72             | 5.00               |                |
| 115      | 66692           | 2.01             | 5.00               |                |
| 206      | 11805           | 2.68             | 5.00               |                |
| 207      | 10797           | 3.02             | 5.00               |                |
| 208      | 25394           | 2.66             | 5.00               |                |
| 220      | 1               | 12.86            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 3918                 | 4213                 | 4233                 | 4202                 | 4152                 |
| 24   | 51404                | 54440                | 54356                | 54115                | 53550                |
| 25   | 7166                 | 7595                 | 7618                 | 7571                 | 7397                 |
| 26   | 8746                 | 9299                 | 9311                 | 9246                 | 9038                 |
| 59   | 43578                | 46590                | 46545                | 46146                | 45742                |
| 113  | 5349                 | 5593                 | 5518                 | 5450                 | 5418                 |
| 115  | 67297                | 68374                | 66801                | 66245                | 64740                |
| 206  | 11265                | 12038                | 11977                | 11963                | 11780                |
| 207  | 10244                | 11068                | 10959                | 10936                | 10779                |
| 208  | 24219                | 25817                | 25871                | 25570                | 25493                |
| 220  | 1                    | 1                    | 2                    | 2                    | 2                    |

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-X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|--------------------|
| 9    | 7494           | 8.95             | 8.9 - 9.1          |                | 0.750                | 0.900                  |                    |
| 24   | 98087          | 23.90            | 23.9 - 24.1        |                | 0.731                | 0.900                  |                    |
| 25   | 13545          | 24.90            | 24.9 - 25.1        |                | 0.701                | 0.900                  |                    |
| 26   | 15911          | 25.90            | 25.9 - 26.1        |                | 0.703                | 0.900                  |                    |
| 59   | 82605          | 58.95            | 58.9 - 59.1        |                | 0.749                | 0.900                  |                    |
| 113  | 10497          | 113.00           | 112.9 - 113.1      |                | 0.762                | 0.900                  |                    |
| 115  | 129599         | 115.00           | 114.9 - 115.1      |                | 0.722                | 0.900                  |                    |
| 206  | 21276          | 205.95           | 205.9 - 206.1      |                | 0.793                | 0.900                  |                    |
| 207  | 19355          | 206.95           | 206.9 - 207.1      |                | 0.744                | 0.900                  |                    |
| 208  | 46485          | 207.95           | 207.9 - 208.1      |                | 0.782                | 0.900                  |                    |
| 220  | 2              | 219.55           | -                  |                | 1.516                |                        |                    |

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 |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 11.2  | V    | Deflect       | 15.2  | V    |
| Extract 2     | -250.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -115   | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

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

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 8356            | 2.66             |                    |
| 89   | 3768            | 2.96             |                    |
| 205  | 9672            | 1.58             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 8271                 | 8393                 | 8640                 | 8038                 | 8438                 |
| 89   | 3722                 | 3789                 | 3932                 | 3625                 | 3771                 |
| 205  | 9488                 | 9783                 | 9862                 | 9564                 | 9665                 |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName    | Value | Unit  | ParameterName | Value | Unit |
|---------------|-------|------|------------------|-------|-------|---------------|-------|------|
| Plasma Mode   |       | HMI  | Aerosol Dilution |       | HMI-8 |               |       |      |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 11.2  | V    | Deflect       | 3.4   | V    |
| Extract 2     | -250.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -115   | 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       | 5.0   | mL/min | OctP RF       | 200   | V    |                       |       |      |