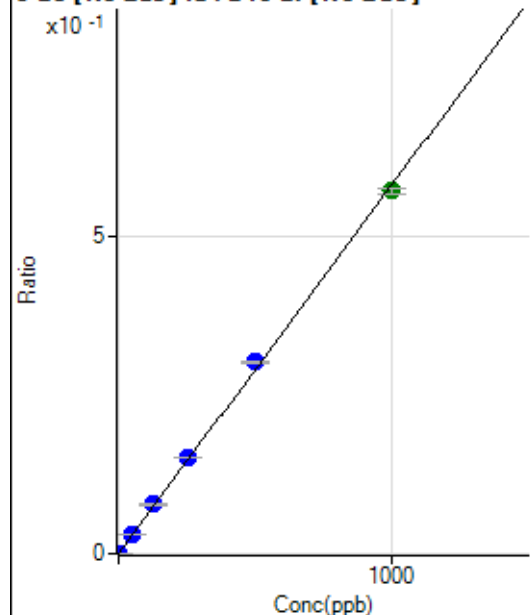


# Calibration for 009CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020123 MS.b\  
 Analysis File: P8020123 MS.batch.bin  
 DA Date-Time: 2023-02-01 13:10:23  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2023-02-01 12:46:56 |
| 2     | 005CALS.d          | S02         | 2023-02-01 12:50:06 |
| 3     | 006CALS.d          | S03         | 2023-02-01 12:53:18 |
| 4     | 007CALS.d          | S04         | 2023-02-01 12:56:24 |
| 5     | 008CALS.d          | S05         | 2023-02-01 12:59:33 |
| 6     | 009CALS.d          | S06         | 2023-02-01 13:02:40 |
| 7     | 010CALS.d          | S07         | 2023-02-01 13:05:49 |
| 8     | 011CALS.d          | S08         | 2023-02-01 13:08:55 |

**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      | 39.16      | 0.0000 | P    | 13.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.093      | 2112.39    | 0.0006 | P    | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.413     | 101008.51  | 0.0304 | P    | 2.1  |
| 4 | <input type="checkbox"/> | 125.000  | 133.915    | 247553.50  | 0.0778 | P    | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 262.574    | 493425.49  | 0.1524 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 520.854    | 960251.67  | 0.3024 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.194    | 1786544.39 | 0.5719 | A    | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 961.17     | 0.0003 | P    | 29.7 |

$$y = 5.8051\text{E-}004 * x + 1.2045\text{E-}005$$

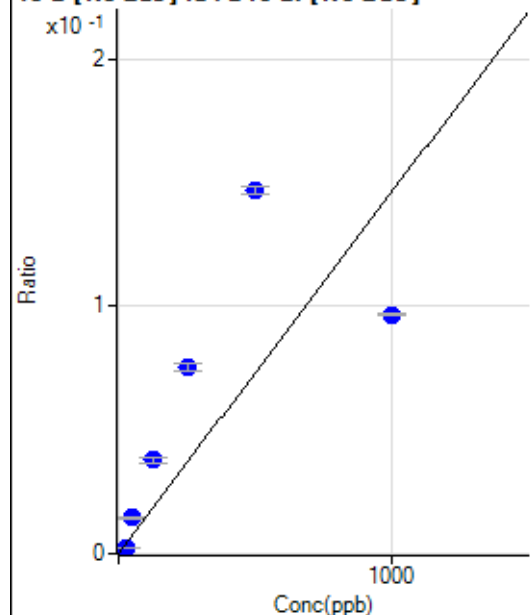
$$R = 0.9996$$

$$DL = 0.00862$$

$$BEC = 0.02075$$

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      | 294.61    | 0.0001 | P    | 3.5 |
| 2 | <input type="checkbox"/> | 25.000   | 14.178     | 7053.65   | 0.0022 | P    | 2.3 |
| 3 | <input type="checkbox"/> | 50.000   | 99.536     | 48506.22  | 0.0146 | P    | 3.9 |
| 4 | <input type="checkbox"/> | 125.000  | 258.750    | 120435.21 | 0.0378 | P    | 5.6 |
| 5 | <input type="checkbox"/> | 250.000  | 515.704    | 243833.23 | 0.0753 | P    | 4.0 |
| 6 | <input type="checkbox"/> | 500.000  | 1004.420   | 465782.19 | 0.1467 | P    | 2.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 662.439    | 302260.99 | 0.0968 | P    | 1.1 |
| 8 | <input type="checkbox"/> |          |            | 26196.87  | 0.0089 | P    | 7.0 |

$$y = 1.4592\text{E-}004 * x + 9.0525\text{E-}005$$

$$R = 0.7533$$

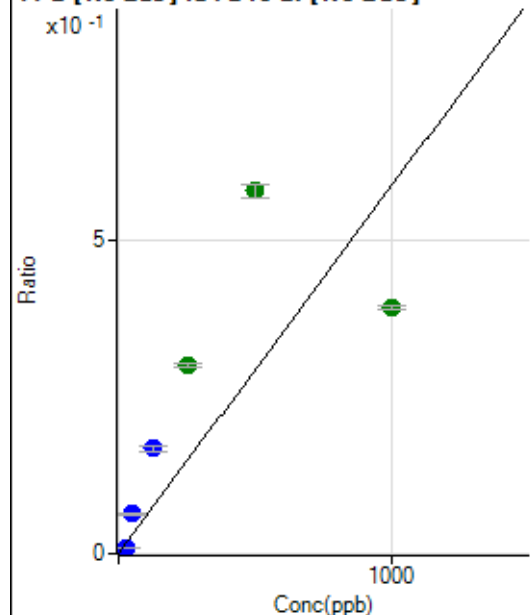
$$DL = 0.0654$$

$$BEC = 0.6204$$

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<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1136.49    | 0.0003 | P        | 6.3 |
| 2 | <input type="checkbox"/> | 25.000   | 15.473     | 30747.36   | 0.0094 | P        | 2.5 |
| 3 | <input type="checkbox"/> | 50.000   | 108.075    | 211184.21  | 0.0636 | P        | 3.7 |
| 4 | <input type="checkbox"/> | 125.000  | 285.360    | 533018.62  | 0.1675 | P        | 4.2 |
| 5 | <input type="checkbox"/> | 250.000  | 511.330    | 970406.20  | 0.2998 | A        | 1.5 |
| 6 | <input type="checkbox"/> | 500.000  | 986.569    | 1836322.07 | 0.5781 | A        | 3.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 668.672    | 1224434.59 | 0.3920 | A        | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 114670.52  | 0.0388 | P        | 7.8 |

$$y = 5.8566E-004 * x + 3.4937E-004$$

$$R = 0.7600$$

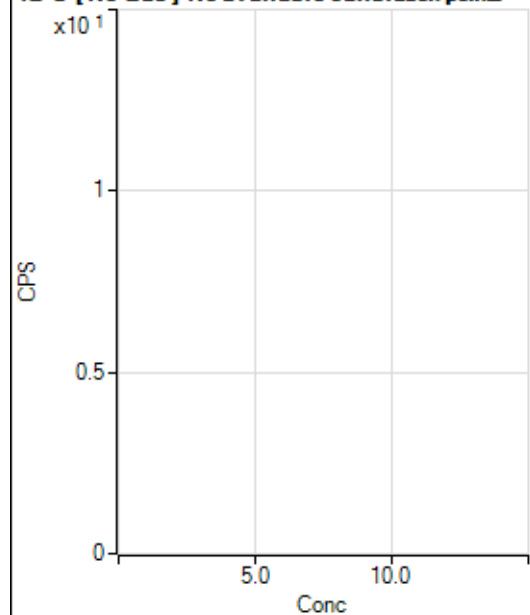
$$DL = 0.1136$$

$$BEC = 0.5965$$

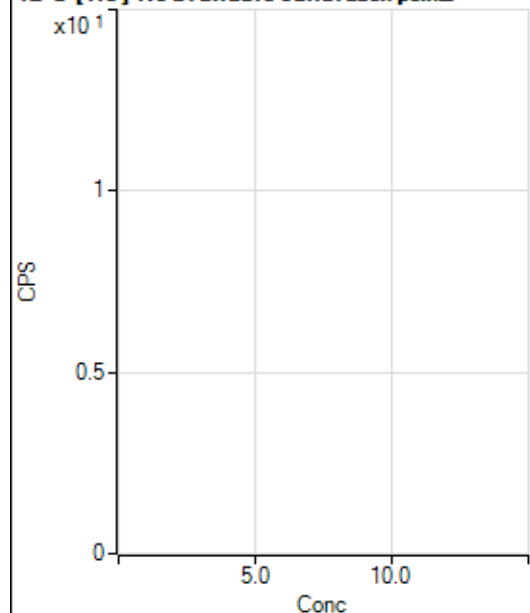
Weight: &lt;None&gt;

Min Conc: 0

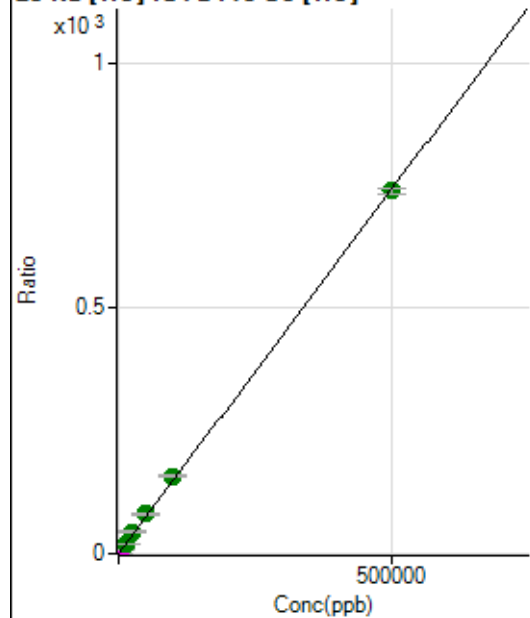
12 C [No Gas] No available calibration points



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 3347941.61 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> |       |            | 3431177.03 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> |       |            | 3615662.45 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> |       |            | 3764419.48 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> |       |            | 4102479.99 |       | A        | 1.9 |
| 6 | <input type="checkbox"/> |       |            | 4566250.54 |       | A        | 2.5 |
| 7 | <input type="checkbox"/> |       |            | 4374796.71 |       | A        | 1.9 |
| 8 | <input type="checkbox"/> |       |            | 4413342.37 |       | A        | 0.8 |

**12 C [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 36807.91 |       | P        | 3.6 |
| 2 | <input type="checkbox"/> |       |            | 38060.97 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> |       |            | 39308.77 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> |       |            | 43077.51 |       | P        | 1.6 |
| 5 | <input type="checkbox"/> |       |            | 47335.21 |       | P        | 1.6 |
| 6 | <input type="checkbox"/> |       |            | 54448.77 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> |       |            | 52720.46 |       | P        | 1.4 |
| 8 | <input type="checkbox"/> |       |            | 53071.59 |       | P        | 1.6 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 14577.04    | 0.1103   | P        | 3.1 |
| 2 | <input type="checkbox"/> | 500.000   | 534.567    | 113950.05   | 0.9038   | P        | 1.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5379.839   | 1058452.93  | 8.0958   | M        | 2.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 13577.037  | 2593123.19  | 20.2632  | A        | 3.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 29179.791  | 5015527.54  | 43.4230  | A        | 8.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 54532.474  | 9992230.95  | 81.0549  | A        | 4.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 106295.29  | 19781567.98 | 157.8883 | A        | 1.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 498047.94  | 92317181.23 | 739.3811 | A        | 1.8 |

$$y = 0.0015 * x + 0.1103$$

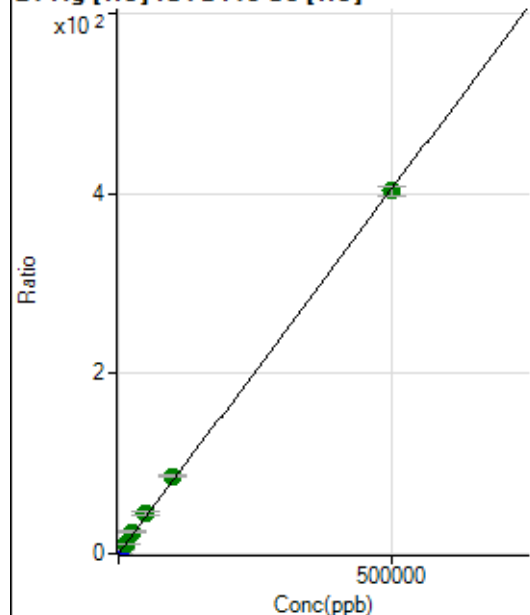
$$R = 0.9999$$

$$DL = 6.867$$

$$BEC = 74.33$$

Weight: <None>

Min Conc: 0

**24 Mg [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 327.79      | 0.0025   | P   | 14.6 |
| 2 | <input type="checkbox"/> | 500.000   | 545.247    | 56028.24    | 0.4444   | P   | 1.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 5398.470   | 572368.60   | 4.3781   | P   | 0.7  |
| 4 | <input type="checkbox"/> | 12500.000 | 13703.665  | 1421688.91  | 11.1096  | A   | 2.4  |
| 5 | <input type="checkbox"/> | 25000.000 | 30086.484  | 2816601.67  | 24.3883  | A   | 8.8  |
| 6 | <input type="checkbox"/> | 50000.000 | 55621.568  | 5557548.08  | 45.0851  | A   | 5.7  |
| 7 | <input type="checkbox"/> | 100000.00 | 106768.99  | 10843761.70 | 86.5414  | A   | 2.6  |
| 8 | <input type="checkbox"/> | 500000.00 | 497795.59  | 50374460.85 | 403.4779 | A   | 2.8  |

$$y = 8.1052\text{E-}004 * x + 0.0025$$

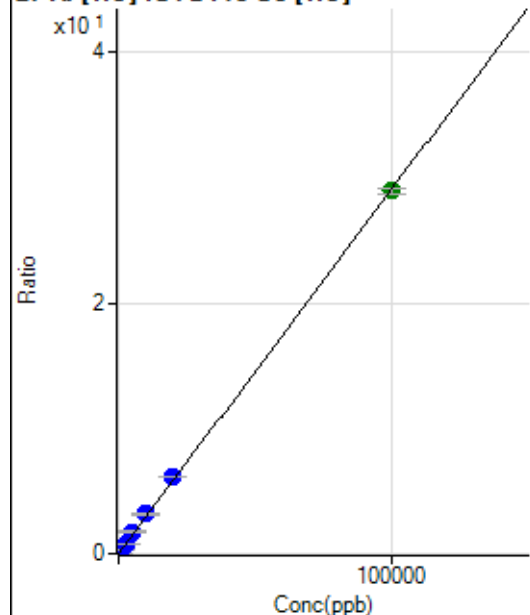
$$R = 0.9998$$

$$DL = 1.345$$

$$BEC = 3.065$$

Weight: &lt;None&gt;

Min Conc: 0

**27 Al [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      | 68.32      | 0.0005  | P   | 11.0 |
| 2 | <input type="checkbox"/> | 20.000    | 23.109     | 912.00     | 0.0072  | P   | 4.1  |
| 3 | <input type="checkbox"/> | 1000.000  | 1075.081   | 40922.09   | 0.3130  | P   | 2.1  |
| 4 | <input type="checkbox"/> | 2500.000  | 2740.394   | 102002.84  | 0.7971  | P   | 2.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 6002.550   | 201686.99  | 1.7453  | P   | 7.5  |
| 6 | <input type="checkbox"/> | 10000.000 | 11026.896  | 395228.29  | 3.2058  | P   | 4.1  |
| 7 | <input type="checkbox"/> | 20000.000 | 21125.094  | 769360.17  | 6.1411  | P   | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 99615.403  | 3615480.59 | 28.9564 | A   | 1.8  |

$$y = 2.9068\text{E-}004 * x + 5.1588\text{E-}004$$

$$R = 0.9999$$

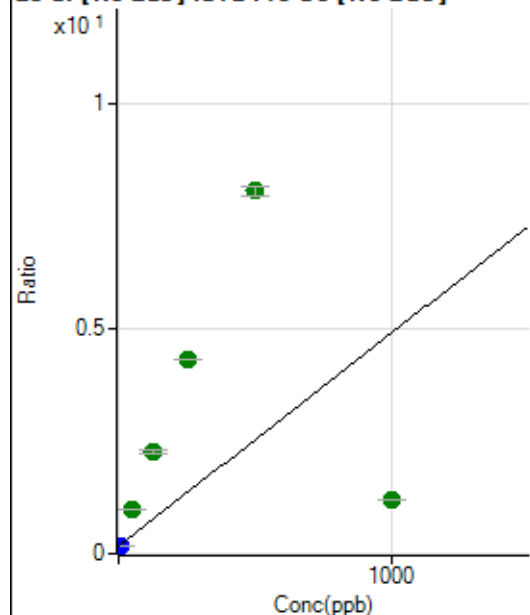
$$DL = 0.5866$$

$$BEC = 1.775$$

Weight: &lt;None&gt;

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      | 761384.59   | 0.1693 | P    | 1.4 |
| 2 | <input type="checkbox"/> | 10.000   | 1.502      | 812787.35   | 0.1764 | P    | 2.0 |
| 3 | <input type="checkbox"/> | 50.000   | 175.292    | 4687508.18  | 0.9991 | A    | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 442.261    | 10381336.26 | 2.2629 | A    | 1.9 |
| 5 | <input type="checkbox"/> | 250.000  | 875.580    | 19884329.96 | 4.3141 | A    | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 1665.755   | 36473760.19 | 8.0547 | A    | 2.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 214.890    | 5342769.96  | 1.1865 | A    | 1.9 |
| 8 | <input type="checkbox"/> |          |            | 1774892.90  | 0.4065 | A    | 1.6 |

$$y = 0.0047 * x + 0.1693$$

$$R = 0.3015$$

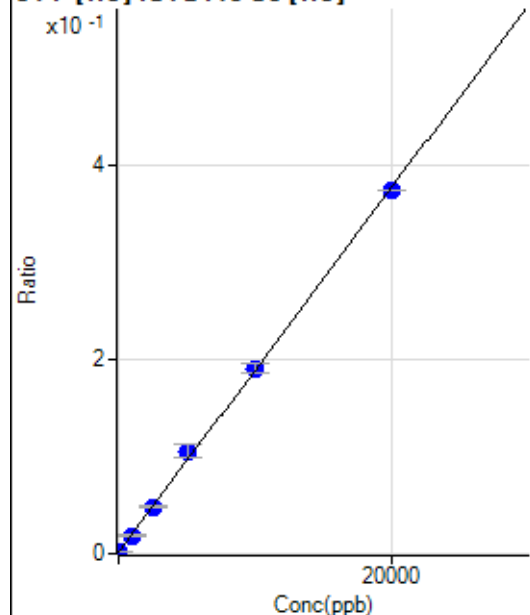
$$DL = 1.512$$

$$BEC = 35.76$$

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     | -3.467     | 180.56   | 0.0014 | P    | 28.4 |
| 2 | <input type="checkbox"/> | 0.000     | 3.467      | 188.90   | 0.0015 | P    | 13.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 917.678    | 2441.94  | 0.0187 | P    | 10.0 |
| 4 | <input type="checkbox"/> | 2500.000  | 2492.054   | 6176.47  | 0.0483 | P    | 1.8  |
| 5 | <input type="checkbox"/> | 5000.000  | 5554.887   | 12205.44 | 0.1058 | P    | 12.2 |
| 6 | <input type="checkbox"/> | 10000.000 | 10083.634  | 23539.16 | 0.1909 | P    | 4.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19824.571  | 46854.15 | 0.3740 | P    | 0.1  |
| 8 | <input type="checkbox"/> |           |            | 202.78   | 0.0016 | P    | 6.1  |

$$y = 1.8794E-005 * x + 0.0014$$

$$R = 0.9995$$

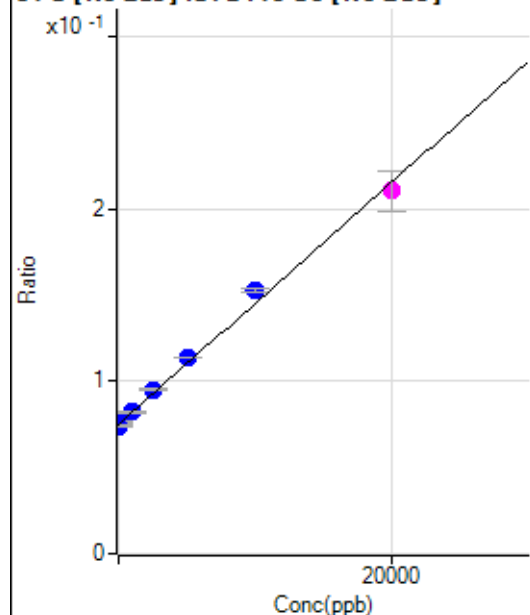
$$DL = 47.06$$

$$BEC = 76.2$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 138.927    | 341992.44 | 0.0760 | P        | 1.5  |
| 2 | <input type="checkbox"/> | 0.000     | -138.927   | 341389.80 | 0.0741 | P        | 2.0  |
| 3 | <input type="checkbox"/> | 1000.000  | 1013.679   | 385478.49 | 0.0822 | P        | 1.8  |
| 4 | <input type="checkbox"/> | 2500.000  | 2859.258   | 436378.55 | 0.0951 | P        | 1.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 5503.912   | 523872.71 | 0.1137 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 10000.000 | 11100.606  | 692442.77 | 0.1529 | P        | 1.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19278.128  | 946795.86 | 0.2103 | M        | 11.4 |
| 8 | <input type="checkbox"/> |           |            | 308993.40 | 0.0708 | P        | 0.7  |

$$y = 7.0130E-006 * x + 0.0751$$

$$R = 0.9971$$

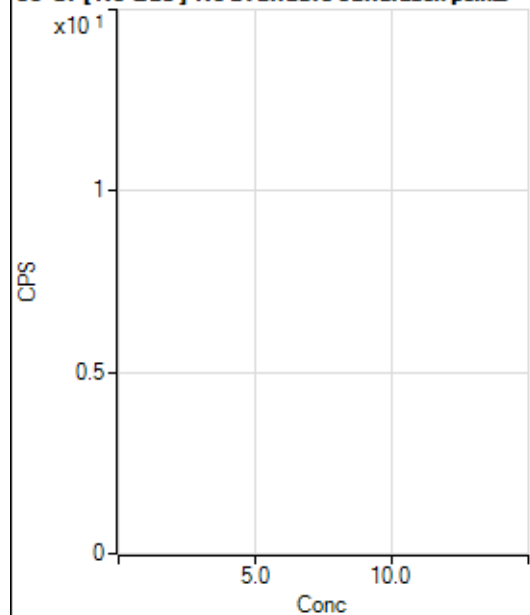
$$DL = 564.3$$

$$BEC = 1.07E+04$$

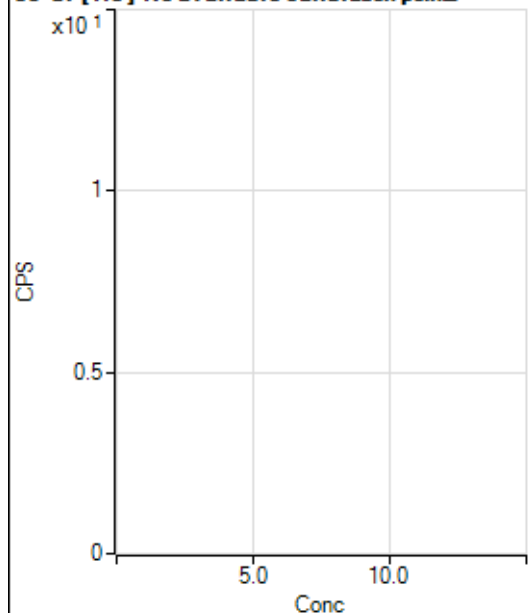
Weight: &lt;None&gt;

Min Conc: 0

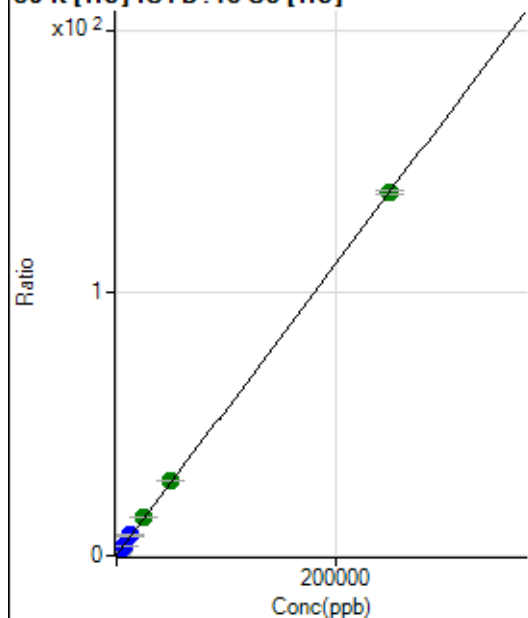
35 Cl [No Gas] No available calibration points



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 169793.80 |       | P        | 0.4 |
| 2 | <input type="checkbox"/> |       |            | 168936.83 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> |       |            | 171994.24 |       | P        | 1.2 |
| 4 | <input type="checkbox"/> |       |            | 172073.19 |       | P        | 1.0 |
| 5 | <input type="checkbox"/> |       |            | 169546.94 |       | P        | 1.0 |
| 6 | <input type="checkbox"/> |       |            | 175087.16 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> |       |            | 170378.38 |       | P        | 1.5 |
| 8 | <input type="checkbox"/> |       |            | 172009.06 |       | P        | 0.7 |

**35 Cl [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1138.96 |       | P        | 10.7 |
| 2 | <input type="checkbox"/> |       |            | 1063.96 |       | P        | 3.0  |
| 3 | <input type="checkbox"/> |       |            | 966.72  |       | P        | 7.9  |
| 4 | <input type="checkbox"/> |       |            | 1044.51 |       | P        | 5.8  |
| 5 | <input type="checkbox"/> |       |            | 1038.95 |       | P        | 11.7 |
| 6 | <input type="checkbox"/> |       |            | 1136.19 |       | P        | 1.5  |
| 7 | <input type="checkbox"/> |       |            | 983.40  |       | P        | 5.9  |
| 8 | <input type="checkbox"/> |       |            | 1158.41 |       | P        | 14.3 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 15725.63    | 0.1190   | P        | 1.0 |
| 2 | <input type="checkbox"/> | 500.000   | 551.115    | 53396.85    | 0.4236   | P        | 2.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2554.853   | 200147.60   | 1.5310   | P        | 1.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6471.492   | 472917.05   | 3.6956   | P        | 1.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 14079.878  | 912550.46   | 7.9005   | P        | 8.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 26134.265  | 1795449.41  | 14.5627  | A        | 3.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 51475.890  | 3579352.38  | 28.5683  | A        | 1.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249506.21  | 17233893.09 | 138.0144 | A        | 1.2 |

$$y = 5.5267E-004 * x + 0.1190$$

$$R = 1.0000$$

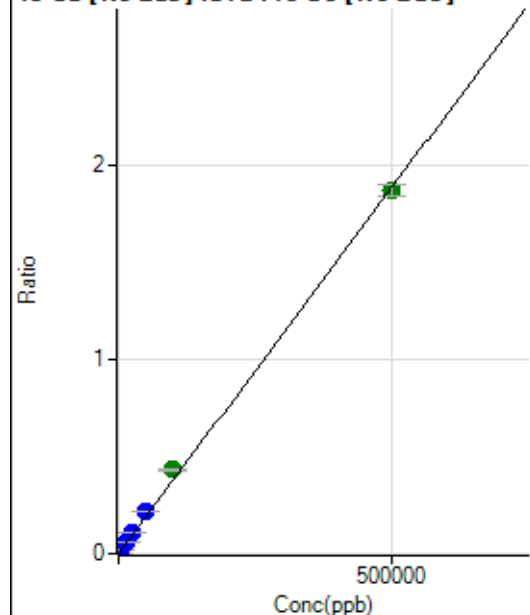
$$DL = 6.181$$

$$BEC = 215.3$$

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      | 217.06     | 0.0000 | P    | 13.8 |
| 2 | <input type="checkbox"/> | 500.000   | 528.338    | 9380.64    | 0.0020 | P    | 1.4  |
| 3 | <input type="checkbox"/> | 5000.000  | 5803.042   | 102625.06  | 0.0219 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 12500.000 | 14615.718  | 252432.33  | 0.0550 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 29024.227  | 503405.33  | 0.1092 | P    | 0.0  |
| 6 | <input type="checkbox"/> | 50000.000 | 58056.908  | 989115.26  | 0.2184 | P    | 1.6  |
| 7 | <input type="checkbox"/> | 100000.00 | 114941.09  | 1947041.35 | 0.4324 | A    | 1.8  |
| 8 | <input type="checkbox"/> | 500000.00 | 495943.92  | 8143862.14 | 1.8655 | A    | 3.0  |

$$y = 3.7614\text{E-}006 * x + 4.8175\text{E-}005$$

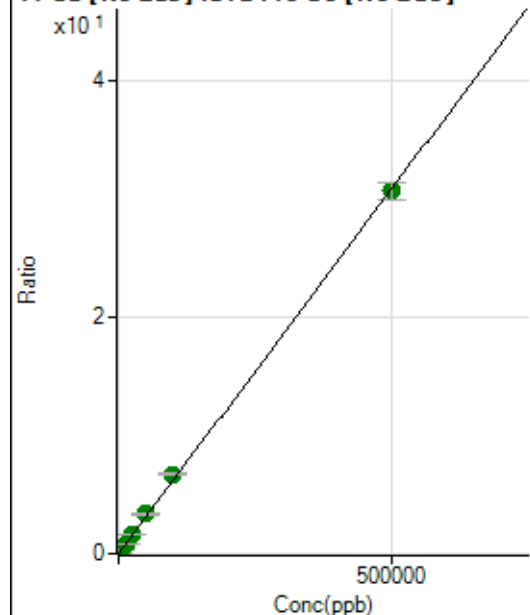
$$R = 0.9995$$

$$DL = 5.285$$

$$BEC = 12.81$$

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      | 12811.35    | 0.0028  | P    | 1.7 |
| 2 | <input type="checkbox"/> | 500.000   | 523.318    | 161509.86   | 0.0350  | P    | 1.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 5472.554   | 1592907.33  | 0.3396  | A    | 3.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13817.015  | 3913517.93  | 0.8530  | A    | 2.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 27183.734  | 7722528.60  | 1.6755  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 54394.888  | 15169869.73 | 3.3499  | A    | 1.5 |
| 7 | <input type="checkbox"/> | 100000.00 | 109152.89  | 30255821.20 | 6.7192  | A    | 1.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 497583.07  | 133645787.8 | 30.6201 | A    | 4.5 |

$$y = 6.1532\text{E-}005 * x + 0.0028$$

$$R = 0.9998$$

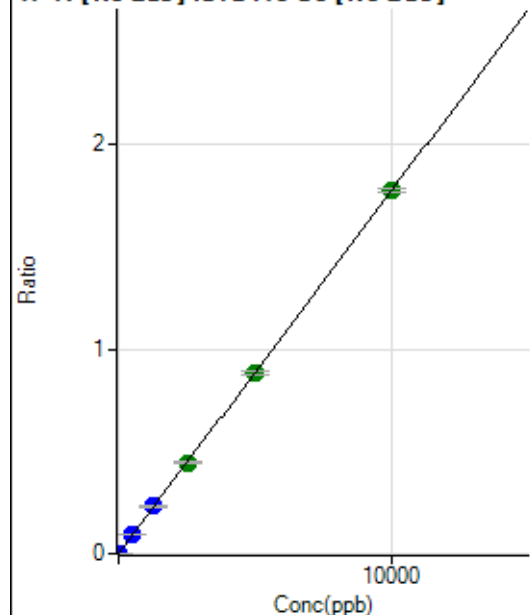
$$DL = 2.352$$

$$BEC = 46.29$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 336.13     | 0.0001 | P        | 22.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.176      | 4581.42    | 0.0010 | P        | 6.3  |
| 3 | <input type="checkbox"/> | 500.000   | 517.145    | 430958.60  | 0.0919 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1312.008   | 1068757.38 | 0.2329 | P        | 2.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2499.651   | 2045312.59 | 0.4437 | A        | 1.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4986.053   | 4008001.56 | 0.8851 | A        | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9998.452   | 7991397.92 | 1.7747 | A        | 1.0  |
| 8 | <input type="checkbox"/> |           |            | 8577.90    | 0.0020 | P        | 10.1 |

$$y = 1.7749\text{E-}004 * x + 7.4949\text{E-}005$$

$$R = 1.0000$$

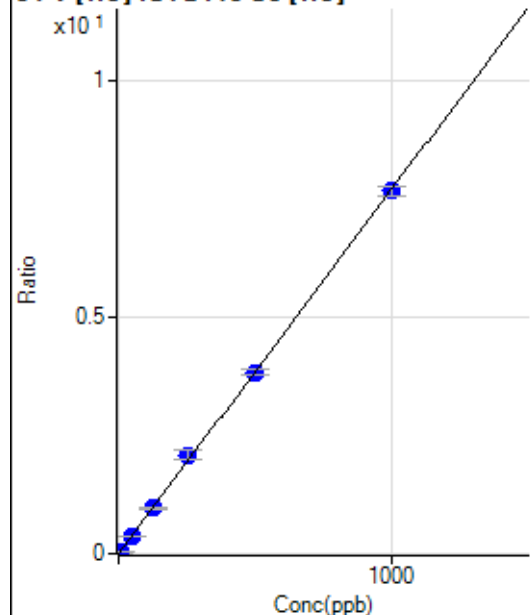
$$DL = 0.2808$$

$$BEC = 0.4223$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11     | 0.0001 | P        | 86.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.101      | 4968.69   | 0.0394 | P        | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.052     | 49453.22  | 0.3783 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 124.946    | 123289.28 | 0.9634 | P        | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 271.654    | 241929.05 | 2.0945 | P        | 8.2  |
| 6 | <input type="checkbox"/> | 500.000  | 497.158    | 472645.34 | 3.8332 | P        | 2.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.061    | 962237.75 | 7.6797 | P        | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 2053.51   | 0.0165 | P        | 18.4 |

$$y = 0.0077 * x + 8.3524\text{E-}005$$

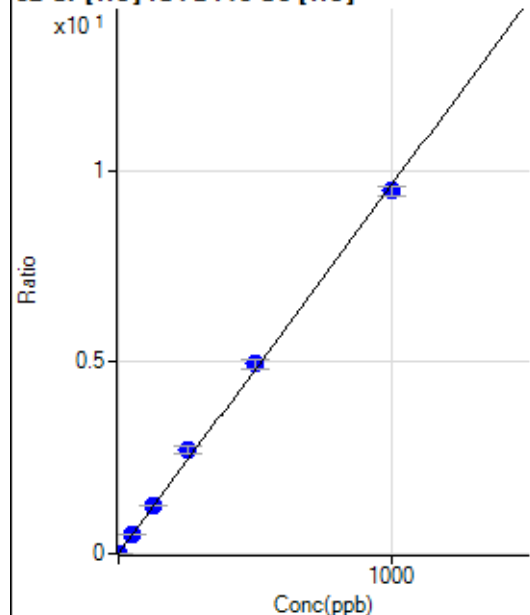
$$R = 0.9997$$

$$DL = 0.02818$$

$$BEC = 0.01083$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 367.79     | 0.0028 | P        | 5.8 |
| 2 | <input type="checkbox"/> | 2.000    | 2.096      | 2892.54    | 0.0229 | P        | 0.7 |
| 3 | <input type="checkbox"/> | 50.000   | 51.187     | 64730.64   | 0.4951 | P        | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 129.660    | 159947.28  | 1.2499 | P        | 2.2 |
| 5 | <input type="checkbox"/> | 250.000  | 280.604    | 312006.90  | 2.7017 | P        | 8.6 |
| 6 | <input type="checkbox"/> | 500.000  | 514.683    | 610620.90  | 4.9531 | P        | 4.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 984.365    | 1186637.77 | 9.4706 | P        | 2.4 |
| 8 | <input type="checkbox"/> |          |            | 11016.57   | 0.0882 | P        | 4.9 |

$$y = 0.0096 * x + 0.0028$$

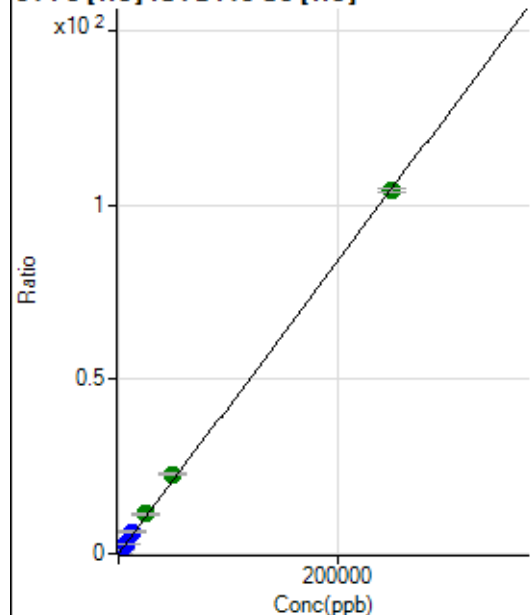
$$R = 0.9993$$

$$DL = 0.05077$$

$$BEC = 0.2896$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 533.35      | 0.0040   | P        | 9.4 |
| 2 | <input type="checkbox"/> | 50.000    | 54.115     | 3361.56     | 0.0267   | P        | 5.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2691.505   | 147641.76   | 1.1294   | P        | 1.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 6922.118   | 370875.88   | 2.8982   | P        | 3.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 14735.682  | 712346.95   | 6.1651   | P        | 7.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 27507.652  | 1418169.26  | 11.5050  | A        | 5.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 54393.736  | 2849708.08  | 22.7462  | A        | 1.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 248739.98  | 12985726.33 | 104.0029 | A        | 1.1 |

$$y = 4.1810E-004 * x + 0.0040$$

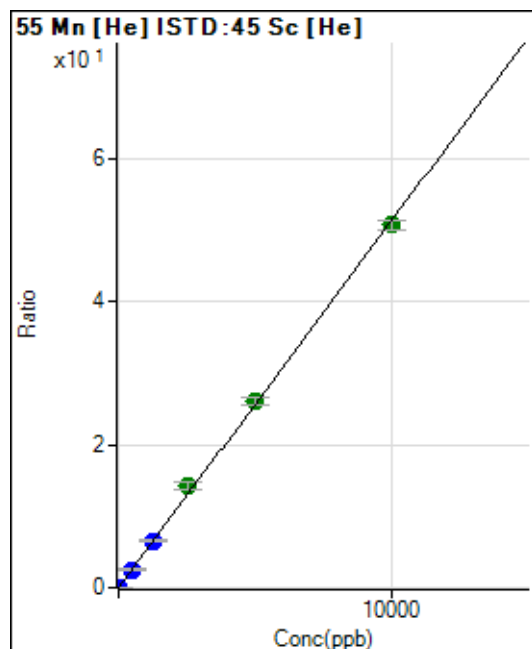
$$R = 0.9998$$

$$DL = 2.709$$

$$BEC = 9.637$$

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      | 70.00      | 0.0005  | P    | 27.0 |
| 2 | <input type="checkbox"/> | 1.000     | 1.092      | 772.25     | 0.0061  | P    | 7.4  |
| 3 | <input type="checkbox"/> | 500.000   | 496.867    | 332815.97  | 2.5458  | P    | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1273.500   | 834890.25  | 6.5242  | P    | 2.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2768.047   | 1637869.16 | 14.1801 | A    | 8.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5081.267   | 3209412.59 | 26.0298 | A    | 3.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9889.574   | 6347003.94 | 50.6608 | A    | 2.6  |
| 8 | <input type="checkbox"/> |           |            | 8824.43    | 0.0707  | P    | 22.0 |

$$y = 0.0051 * x + 5.3119E-004$$

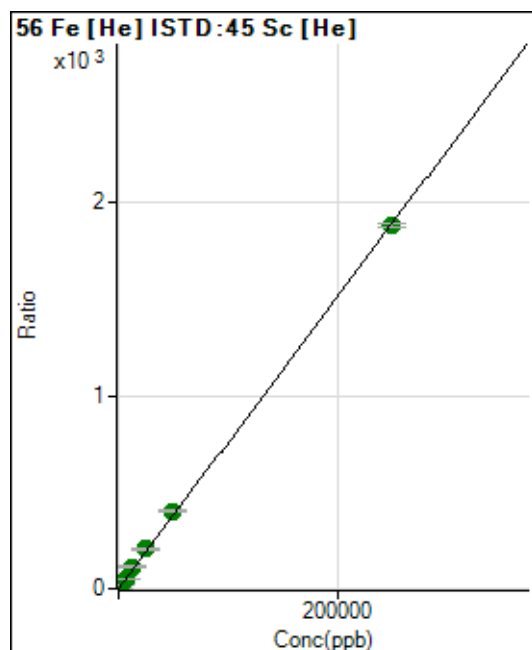
$$R = 0.9995$$

$$DL = 0.08413$$

$$BEC = 0.1037$$

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      | 3522.73     | 0.0267    | P    | 4.0 |
| 2 | <input type="checkbox"/> | 50.000    | 54.192     | 54955.84    | 0.4359    | P    | 2.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2706.082   | 2675156.08  | 20.4617   | A    | 2.1 |
| 4 | <input type="checkbox"/> | 6250.000  | 6838.976   | 6612327.40  | 51.6714   | A    | 3.0 |
| 5 | <input type="checkbox"/> | 12500.000 | 14845.653  | 12957180.84 | 112.1340  | A    | 7.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 27241.706  | 25362746.63 | 205.7431  | A    | 5.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 53433.249  | 50550792.34 | 403.5292  | A    | 2.0 |
| 8 | <input type="checkbox"/> | 250000.00 | 248955.11  | 234736007.1 | 1.880.017 | A    | 1.2 |

$$y = 0.0076 * x + 0.0267$$

$$R = 0.9999$$

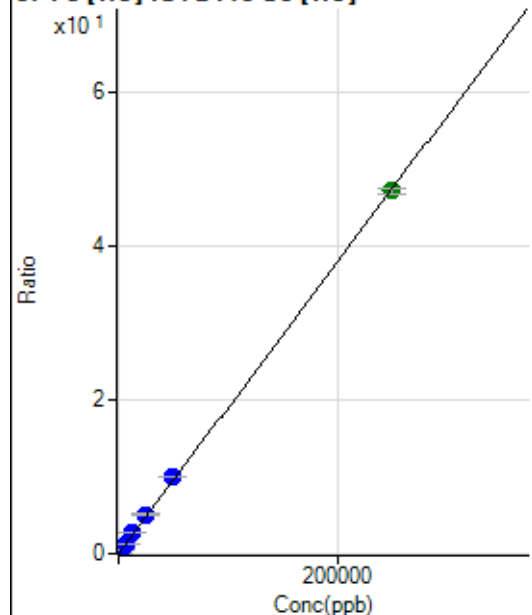
$$DL = 0.4209$$

$$BEC = 3.532$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 190.75     | 0.0014  | P        | 16.7 |
| 2 | <input type="checkbox"/> | 50.000    | 57.496     | 1557.52    | 0.0124  | P        | 4.4  |
| 3 | <input type="checkbox"/> | 2500.000  | 2688.805   | 66847.40   | 0.5113  | P        | 1.3  |
| 4 | <input type="checkbox"/> | 6250.000  | 6768.928   | 164443.22  | 1.2850  | P        | 1.7  |
| 5 | <input type="checkbox"/> | 12500.000 | 14550.467  | 319030.35  | 2.7606  | P        | 7.0  |
| 6 | <input type="checkbox"/> | 25000.000 | 26714.820  | 624628.88  | 5.0674  | P        | 5.7  |
| 7 | <input type="checkbox"/> | 50000.000 | 52876.011  | 1256255.54 | 10.0283 | P        | 0.6  |
| 8 | <input type="checkbox"/> | 250000.00 | 249135.93  | 5899486.18 | 47.2450 | A        | 1.5  |

$$y = 1.8963E-004 * x + 0.0014$$

R = 0.9999

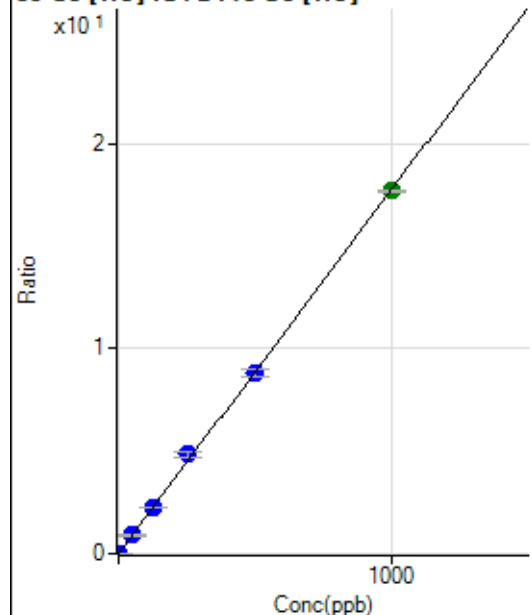
DL = 3.82

BEC = 7.638

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 64.45      | 0.0005  | P        | 13.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.069      | 2456.91    | 0.0195  | P        | 4.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.444     | 117235.86  | 0.8967  | P        | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 126.634    | 287987.47  | 2.2504  | P        | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 272.640    | 559862.90  | 4.8446  | P        | 7.0  |
| 6 | <input type="checkbox"/> | 500.000  | 495.016    | 1084378.39 | 8.7956  | P        | 4.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.605    | 2218276.39 | 17.7075 | A        | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 2709.21    | 0.0217  | P        | 25.2 |

$$y = 0.0178 * x + 4.8902E-004$$

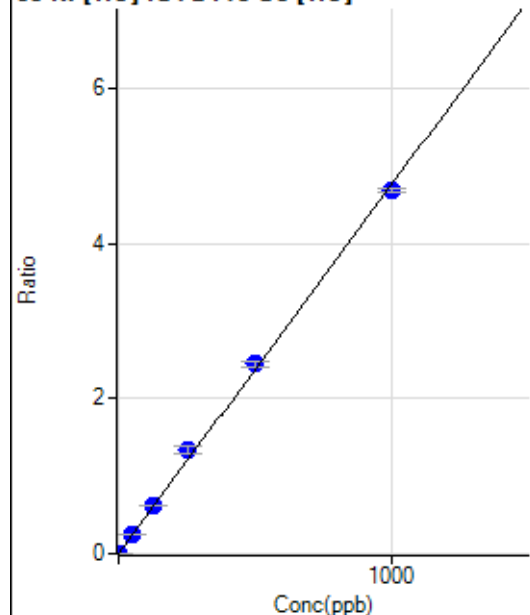
R = 0.9997

DL = 0.01134

BEC = 0.02752

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.56     | 0.0002 | P        | 33.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.082      | 673.35    | 0.0053 | P        | 8.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.495     | 32688.77  | 0.2500 | P        | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 131.415    | 80065.37  | 0.6257 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 283.170    | 155720.50 | 1.3479 | P        | 7.7  |
| 6 | <input type="checkbox"/> | 500.000  | 514.232    | 301796.33 | 2.4477 | P        | 3.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 983.664    | 586529.92 | 4.6819 | P        | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 1917.93   | 0.0154 | P        | 15.0 |

$$y = 0.0048 * x + 1.9349E-004$$

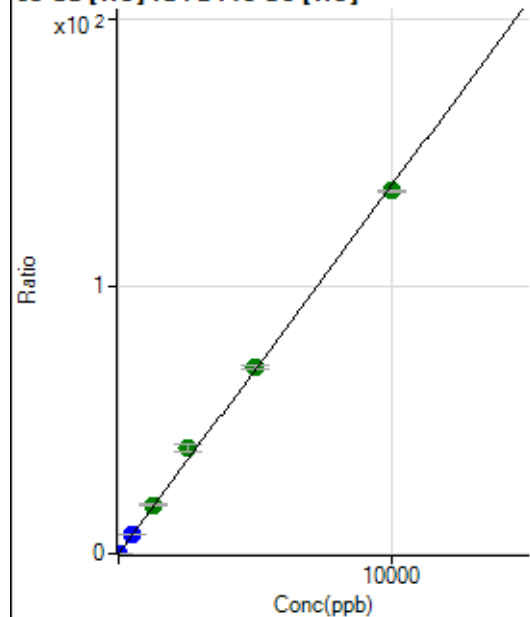
$$R = 0.9992$$

$$DL = 0.04092$$

$$BEC = 0.04065$$

Weight: &lt;None&gt;

Min Conc: 0

**63 Cu [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 896.70      | 0.0068   | P        | 9.8  |
| 2 | <input type="checkbox"/> | 2.000     | 2.187      | 4650.81     | 0.0369   | P        | 2.9  |
| 3 | <input type="checkbox"/> | 500.000   | 514.129    | 925859.89   | 7.0818   | P        | 2.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1324.600   | 2333528.77  | 18.2349  | A        | 3.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2876.642   | 4572358.54  | 39.5928  | A        | 8.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5073.163   | 8610580.36  | 69.8195  | A        | 1.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9859.227   | 16997965.72 | 135.6814 | A        | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 12348.31    | 0.0990   | P        | 41.4 |

$$y = 0.0138 * x + 0.0068$$

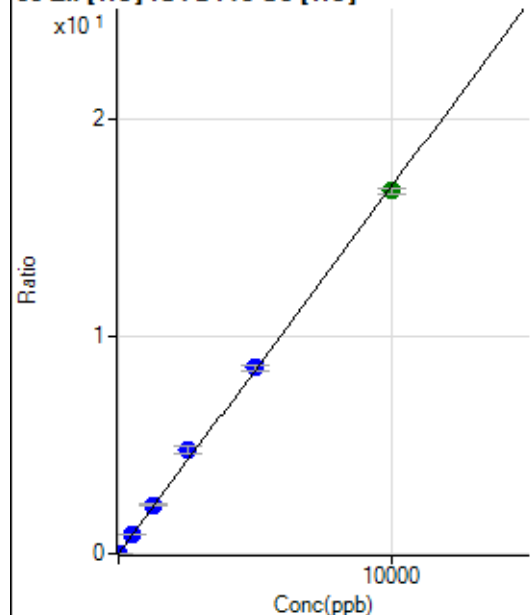
$$R = 0.9991$$

$$DL = 0.1453$$

$$BEC = 0.494$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 208.89     | 0.0016  | P    | 6.0  |
| 2 | <input type="checkbox"/> | 2.000     | 2.514      | 735.58     | 0.0058  | P    | 5.2  |
| 3 | <input type="checkbox"/> | 500.000   | 522.352    | 115769.42  | 0.8855  | P    | 2.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1318.771   | 285787.66  | 2.2332  | P    | 3.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2816.251   | 550845.71  | 4.7673  | P    | 7.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5060.139   | 1056070.99 | 8.5645  | P    | 2.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9881.154   | 2095297.36 | 16.7228 | A    | 1.9  |
| 8 | <input type="checkbox"/> |           |            | 2686.99    | 0.0215  | P    | 19.8 |

$$y = 0.0017 * x + 0.0016$$

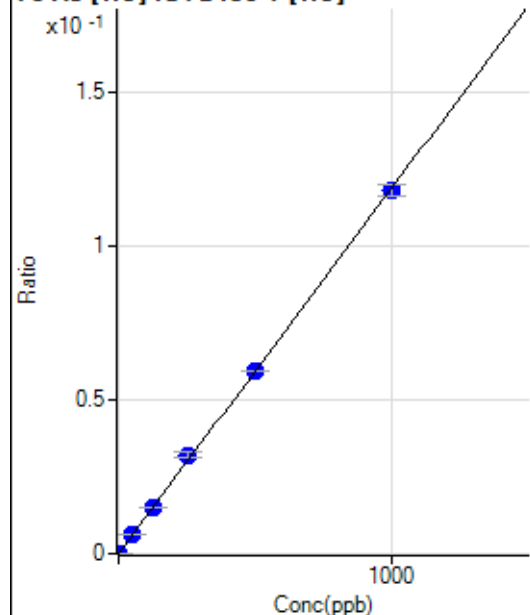
$$R = 0.9994$$

$$DL = 0.1672$$

$$BEC = 0.9343$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>75</sup>As [He] ISTD: <sup>89</sup>Y [He]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3.67      | 0.0000 | P    | 36.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.103      | 143.68    | 0.0001 | P    | 4.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.587     | 6571.87   | 0.0060 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 127.147    | 16265.99  | 0.0151 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 270.624    | 31780.46  | 0.0321 | P    | 7.0  |
| 6 | <input type="checkbox"/> | 500.000  | 502.102    | 61527.55  | 0.0596 | P    | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.495    | 124276.77 | 0.1180 | P    | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 169.35    | 0.0002 | P    | 25.5 |

$$y = 1.1875E-004 * x + 3.3527E-006$$

$$R = 0.9998$$

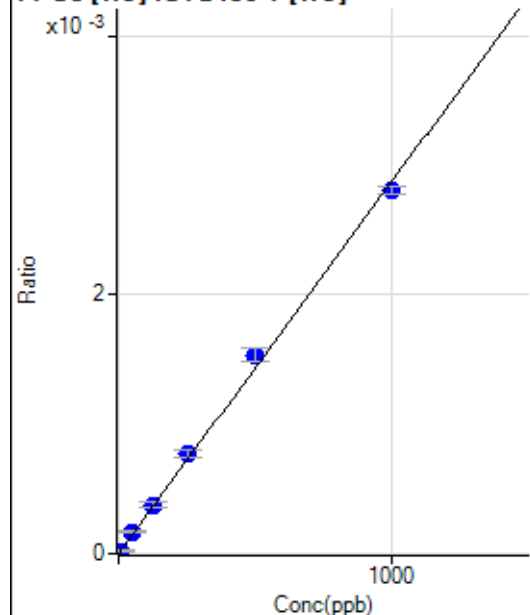
$$DL = 0.03057$$

$$BEC = 0.02823$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P    |      |
| 2 | <input type="checkbox"/> | 5.000    | 7.246      | 22.22   | 0.0000 | P    | 23.1 |
| 3 | <input type="checkbox"/> | 50.000   | 59.162     | 185.56  | 0.0002 | P    | 9.5  |
| 4 | <input type="checkbox"/> | 125.000  | 131.338    | 405.57  | 0.0004 | P    | 14.0 |
| 5 | <input type="checkbox"/> | 250.000  | 269.891    | 768.92  | 0.0008 | P    | 6.9  |
| 6 | <input type="checkbox"/> | 500.000  | 535.373    | 1584.55 | 0.0015 | P    | 7.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 976.079    | 2950.34 | 0.0028 | P    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 6.67    | 0.0000 | P    | 99.7 |

$$y = 2.8690\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9989$$

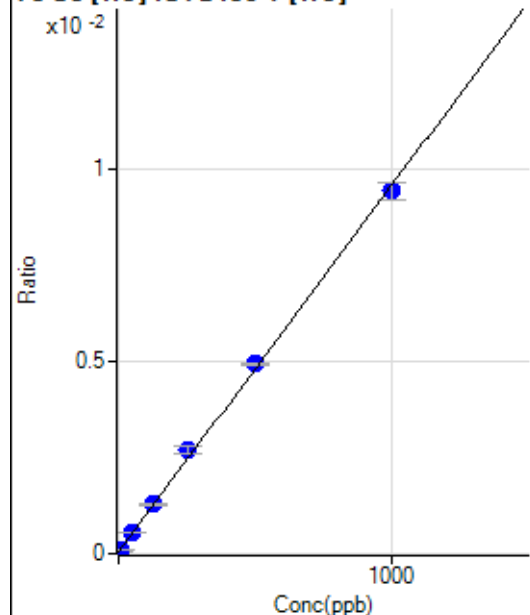
$$DL = 0$$

$$BEC = 0$$

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      | 52.67   | 0.0000 | P    | 27.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.890      | 111.34  | 0.0001 | P    | 12.0 |
| 3 | <input type="checkbox"/> | 50.000   | 52.387     | 598.41  | 0.0005 | P    | 4.9  |
| 4 | <input type="checkbox"/> | 125.000  | 129.124    | 1377.21 | 0.0013 | P    | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 277.623    | 2663.19 | 0.0027 | P    | 8.6  |
| 6 | <input type="checkbox"/> | 500.000  | 513.824    | 5103.11 | 0.0049 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.543    | 9945.18 | 0.0094 | P    | 4.7  |
| 8 | <input type="checkbox"/> |          |            | 66.34   | 0.0001 | P    | 7.2  |

$$y = 9.5319\text{E-}006 * x + 4.7971\text{E-}005$$

$$R = 0.9994$$

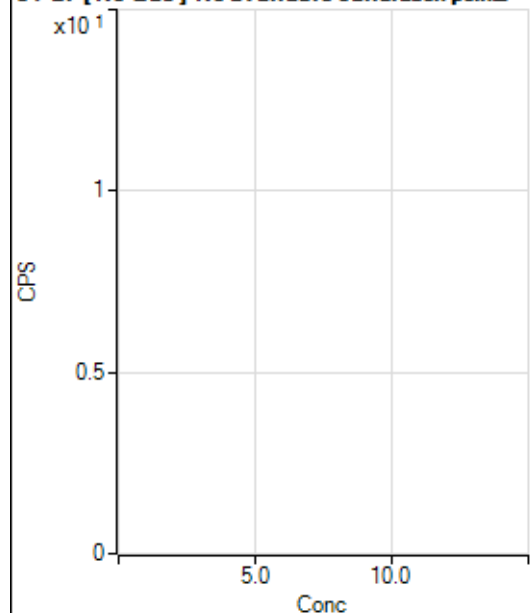
$$DL = 4.109$$

$$BEC = 5.033$$

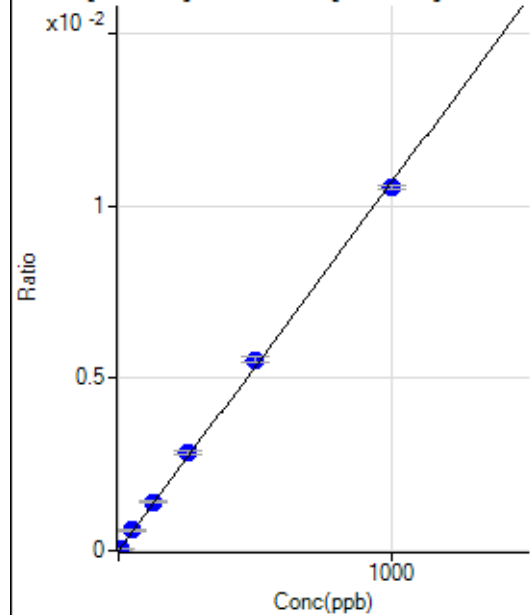
Weight: &lt;None&gt;

Min Conc: 0



**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 38362.57 |       | P        | 1.7 |
| 2 | <input type="checkbox"/> |       |            | 36927.43 |       | P        | 1.5 |
| 3 | <input type="checkbox"/> |       |            | 36358.86 |       | P        | 2.6 |
| 4 | <input type="checkbox"/> |       |            | 37128.36 |       | P        | 3.8 |
| 5 | <input type="checkbox"/> |       |            | 34702.63 |       | P        | 5.0 |
| 6 | <input type="checkbox"/> |       |            | 33932.90 |       | P        | 4.1 |
| 7 | <input type="checkbox"/> |       |            | 32929.42 |       | P        | 2.1 |
| 8 | <input type="checkbox"/> |       |            | 34749.20 |       | P        | 3.9 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 17.92     | 0.0000 | P        | 201. |
| 2 | <input type="checkbox"/> | 5.000    | 5.439      | 628.70    | 0.0001 | P        | 6.1  |
| 3 | <input type="checkbox"/> | 50.000   | 55.393     | 6361.69   | 0.0006 | P        | 3.2  |
| 4 | <input type="checkbox"/> | 125.000  | 132.617    | 15434.11  | 0.0014 | P        | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 264.844    | 30480.10  | 0.0028 | P        | 3.1  |
| 6 | <input type="checkbox"/> | 500.000  | 519.384    | 59645.60  | 0.0055 | P        | 2.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.373    | 114919.46 | 0.0105 | P        | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 351.64    | 0.0000 | P        | 34.4 |

$$y = 1.0671E-005 * x + 1.6939E-006$$

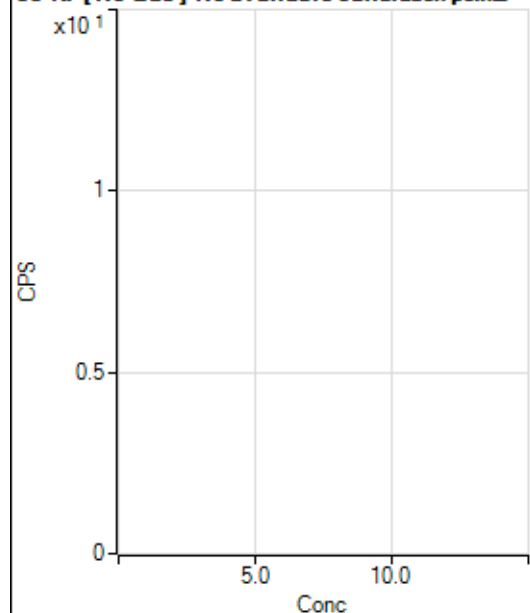
$$R = 0.9996$$

$$DL = 0.9569$$

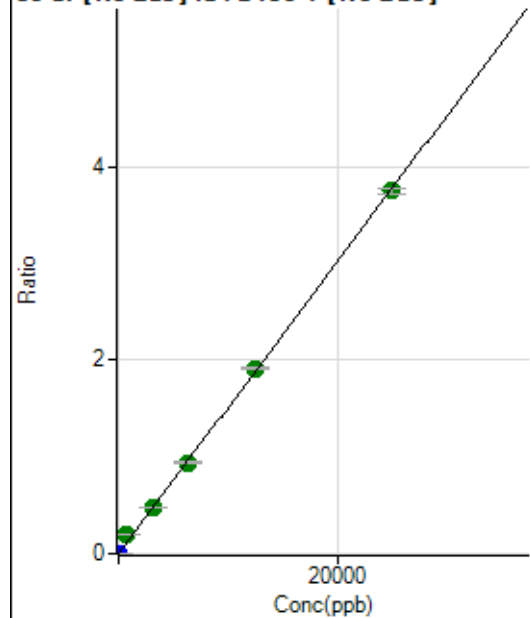
$$BEC = 0.1587$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|--------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 440.37 |       | P        | 2.7 |
| 2 | <input type="checkbox"/> |       |            | 404.96 |       | P        | 1.6 |
| 3 | <input type="checkbox"/> |       |            | 433.29 |       | P        | 7.4 |
| 4 | <input type="checkbox"/> |       |            | 426.62 |       | P        | 3.5 |
| 5 | <input type="checkbox"/> |       |            | 436.20 |       | P        | 3.8 |
| 6 | <input type="checkbox"/> |       |            | 430.37 |       | P        | 0.9 |
| 7 | <input type="checkbox"/> |       |            | 435.79 |       | P        | 4.6 |
| 8 | <input type="checkbox"/> |       |            | 475.79 |       | P        | 8.6 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 716.71      | 0.0001 | P        | 6.3  |
| 2 | <input type="checkbox"/> | 1.000     | 1.054      | 2378.04     | 0.0002 | P        | 1.6  |
| 3 | <input type="checkbox"/> | 625.000   | 1305.939   | 2110862.44  | 0.1966 | A        | 2.2  |
| 4 | <input type="checkbox"/> | 3125.000  | 3169.016   | 5196761.75  | 0.4771 | A        | 1.1  |
| 5 | <input type="checkbox"/> | 6250.000  | 6263.599   | 10163120.97 | 0.9429 | A        | 0.8  |
| 6 | <input type="checkbox"/> | 12500.000 | 12680.198  | 20540201.33 | 1.9087 | A        | 0.8  |
| 7 | <input type="checkbox"/> | 25000.000 | 24883.976  | 40926977.30 | 3.7456 | A        | 1.8  |
| 8 | <input type="checkbox"/> |           |            | 23483.49    | 0.0023 | P        | 23.4 |

$$y = 1.5052E-004 * x + 6.7103E-005$$

$$R = 0.9996$$

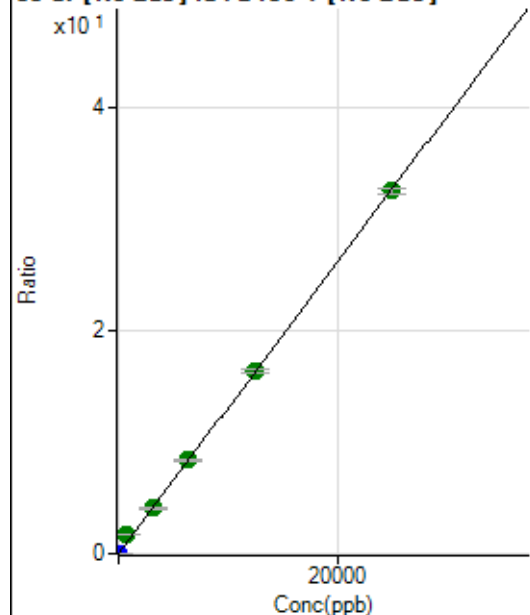
$$DL = 0.08388$$

$$BEC = 0.4458$$

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      | 633.37      | 0.0001  | P    | 5.0  |
| 2 | <input type="checkbox"/> | 1.000     | 1.019      | 14652.59    | 0.0014  | P    | 3.3  |
| 3 | <input type="checkbox"/> | 625.000   | 1280.583   | 17965389.47 | 1.6739  | A    | 2.3  |
| 4 | <input type="checkbox"/> | 3125.000  | 3114.307   | 44345114.54 | 4.0709  | A    | 2.4  |
| 5 | <input type="checkbox"/> | 6250.000  | 6422.865   | 90493105.49 | 8.3956  | A    | 1.2  |
| 6 | <input type="checkbox"/> | 12500.000 | 12529.648  | 176212688.6 | 16.3779 | A    | 2.4  |
| 7 | <input type="checkbox"/> | 25000.000 | 24926.907  | 356029660.7 | 32.5828 | A    | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 200305.00   | 0.0196  | P    | 23.2 |

$$y = 0.0013 * x + 5.9273E-005$$

$$R = 0.9997$$

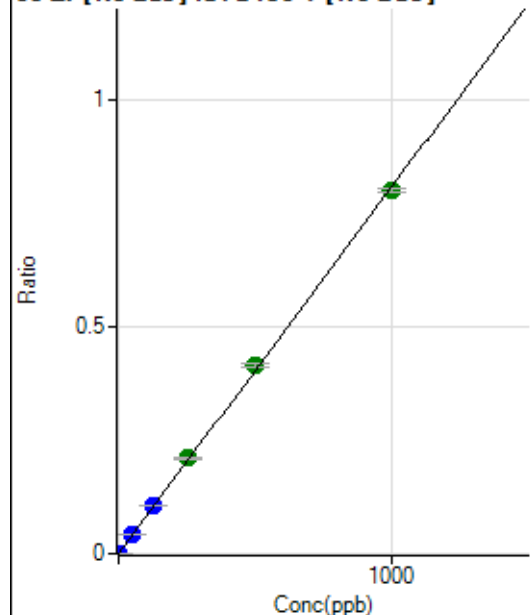
$$DL = 0.006799$$

$$BEC = 0.04535$$

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      | 452.80     | 0.0000 | P    | 10.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.038      | 9267.23    | 0.0009 | P    | 0.2  |
| 3 | <input type="checkbox"/> | 50.000   | 53.214     | 461112.24  | 0.0430 | P    | 4.0  |
| 4 | <input type="checkbox"/> | 125.000  | 131.675    | 1157716.35 | 0.1063 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 260.728    | 2267627.72 | 0.2104 | A    | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 512.848    | 4452757.91 | 0.4138 | A    | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.899    | 8727254.36 | 0.7987 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 4881.60    | 0.0005 | P    | 16.5 |

$$y = 8.0677E-004 * x + 4.2357E-005$$

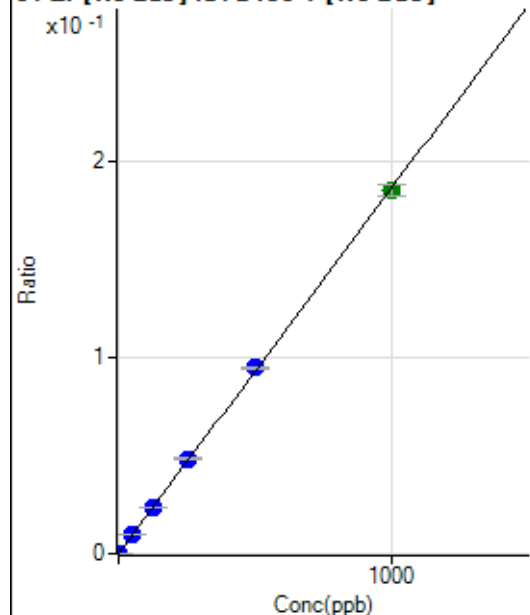
$$R = 0.9998$$

$$DL = 0.01618$$

$$BEC = 0.0525$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 72.22      | 0.0000 | P        | 33.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.051      | 2136.33    | 0.0002 | P        | 9.9  |
| 3 | <input type="checkbox"/> | 50.000   | 51.794     | 103769.83  | 0.0097 | P        | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 125.220    | 254445.07  | 0.0234 | P        | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 258.320    | 519323.02  | 0.0482 | P        | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 509.635    | 1022788.81 | 0.0951 | P        | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.985    | 2023615.24 | 0.1852 | A        | 3.2  |
| 8 | <input type="checkbox"/> |          |            | 1188.98    | 0.0001 | P        | 23.8 |

$$y = 1.8650\text{E-}004 * x + 6.7594\text{E-}006$$

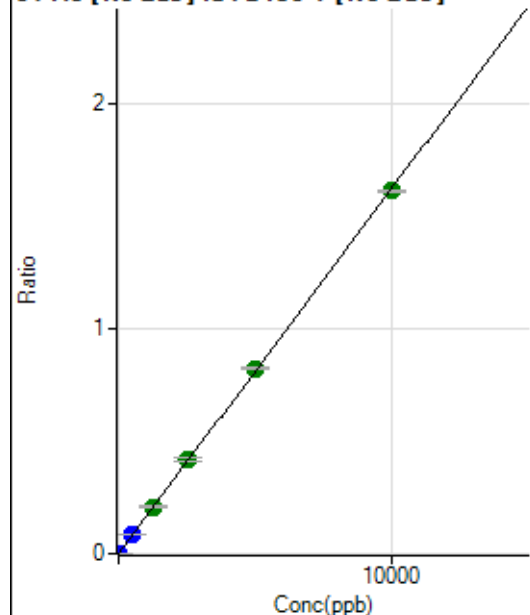
$$R = 0.9999$$

$$DL = 0.03613$$

$$BEC = 0.03624$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 163.89      | 0.0000 | P        | 25.1 |
| 2 | <input type="checkbox"/> | 5.000     | 6.449      | 11163.12    | 0.0011 | P        | 1.1  |
| 3 | <input type="checkbox"/> | 500.000   | 535.959    | 931504.17   | 0.0868 | P        | 3.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1285.773   | 2268530.78  | 0.2082 | A        | 2.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2571.496   | 4487859.26  | 0.4164 | A        | 4.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5065.196   | 8827120.16  | 0.8202 | A        | 0.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 9943.258   | 17594586.50 | 1.6102 | A        | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 11616.70    | 0.0011 | P        | 21.0 |

$$y = 1.6193\text{E-}004 * x + 1.5366\text{E-}005$$

$$R = 0.9999$$

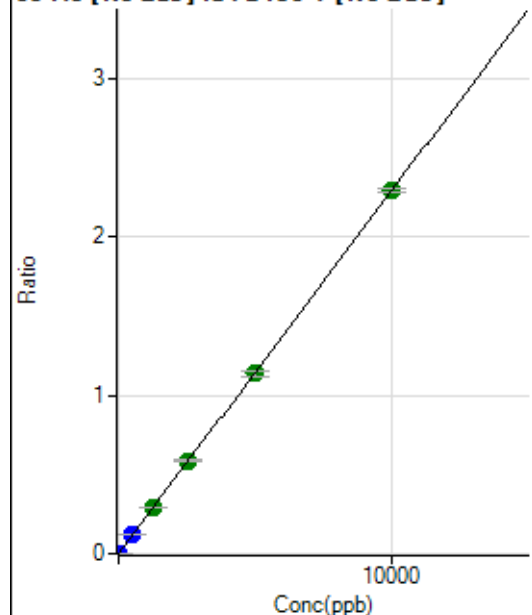
$$DL = 0.07132$$

$$BEC = 0.09489$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 61.11       | 0.0000 | P        | 15.9 |
| 2 | <input type="checkbox"/> | 5.000     | 5.350      | 12973.06    | 0.0012 | P        | 2.7  |
| 3 | <input type="checkbox"/> | 500.000   | 530.903    | 1305784.55  | 0.1217 | P        | 3.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1259.898   | 3145756.56  | 0.2888 | A        | 0.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2560.004   | 6324035.08  | 0.5867 | A        | 2.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 4964.587   | 12241454.53 | 1.1379 | A        | 2.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 9999.923   | 25044009.24 | 2.2919 | A        | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 16672.36    | 0.0016 | P        | 21.4 |

$$y = 2.2919\text{E-}004 * x + 5.7214\text{E-}006$$

$$R = 1.0000$$

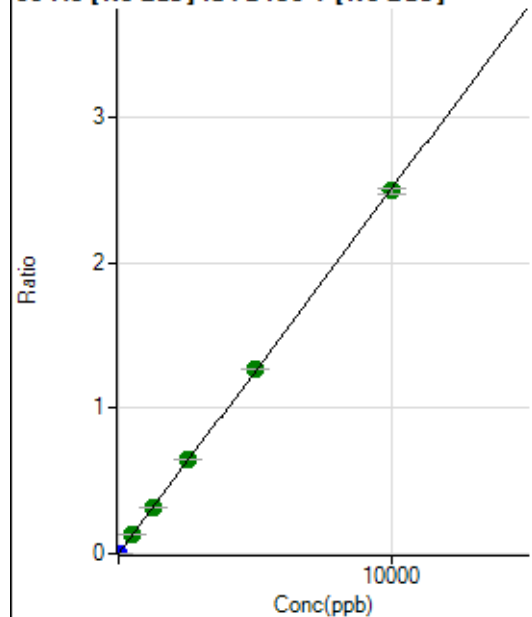
$$DL = 0.01188$$

$$BEC = 0.02496$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 186.12      | 0.0000 | P        | 19.6 |
| 2 | <input type="checkbox"/> | 5.000     | 5.508      | 14735.97    | 0.0014 | P        | 3.3  |
| 3 | <input type="checkbox"/> | 500.000   | 522.895    | 1407932.89  | 0.1312 | A        | 3.1  |
| 4 | <input type="checkbox"/> | 1250.000  | 1259.200   | 3441494.39  | 0.3159 | A        | 2.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2571.726   | 6954102.67  | 0.6452 | A        | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5067.220   | 13679873.40 | 1.2712 | A        | 0.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9946.163   | 27263496.10 | 2.4951 | A        | 1.9  |
| 8 | <input type="checkbox"/> |           |            | 27682.22    | 0.0027 | P        | 15.9 |

$$y = 2.5086\text{E-}004 * x + 1.7411\text{E-}005$$

$$R = 0.9999$$

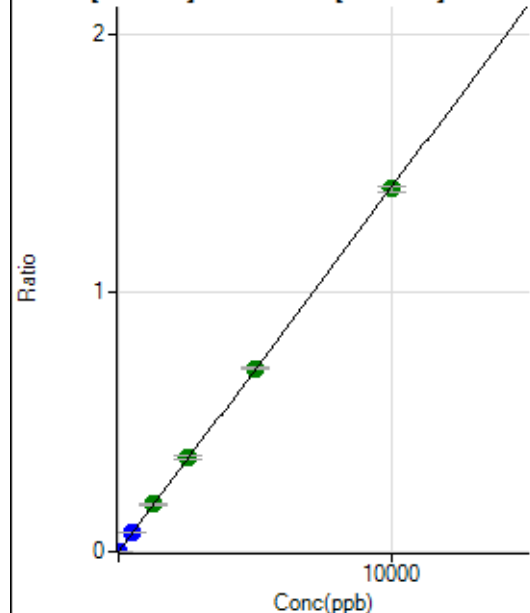
$$DL = 0.04088$$

$$BEC = 0.06941$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 30.56       | 0.0000 | P        | 41.3 |
| 2 | <input type="checkbox"/> | 5.000     | 5.759      | 8563.99     | 0.0008 | P        | 4.7  |
| 3 | <input type="checkbox"/> | 500.000   | 540.817    | 816884.71   | 0.0761 | P        | 3.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1294.854   | 1985528.76  | 0.1823 | A        | 0.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2582.911   | 3918243.88  | 0.3635 | A        | 2.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5031.595   | 7622533.76  | 0.7082 | A        | 1.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9955.827   | 15311880.55 | 1.4013 | A        | 1.5  |
| 8 | <input type="checkbox"/> |           |            | 10562.87    | 0.0010 | P        | 16.3 |

$$y = 1.4075E-004 * x + 2.8585E-006$$

$$R = 1.0000$$

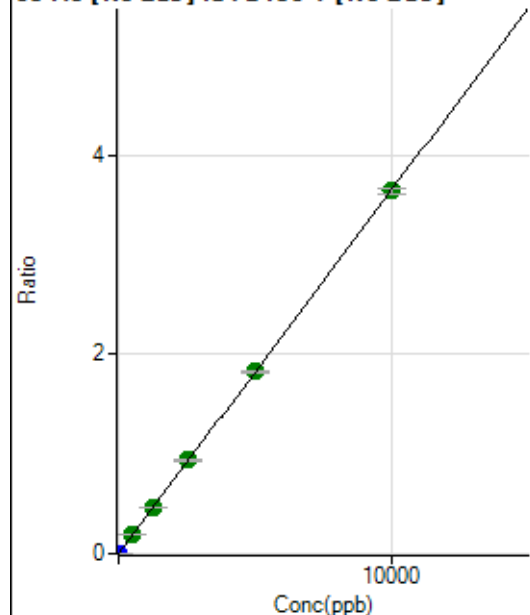
$$DL = 0.02516$$

$$BEC = 0.02031$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 116.67      | 0.0000 | P        | 22.1 |
| 2 | <input type="checkbox"/> | 5.000     | 5.396      | 20849.51    | 0.0020 | P        | 6.8  |
| 3 | <input type="checkbox"/> | 500.000   | 528.295    | 2069942.73  | 0.1929 | A        | 3.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1264.091   | 5027927.93  | 0.4615 | A        | 1.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2565.926   | 10096184.78 | 0.9368 | A        | 3.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 5004.701   | 19664381.86 | 1.8272 | A        | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9977.991   | 39806150.54 | 3.6429 | A        | 1.6  |
| 8 | <input type="checkbox"/> |           |            | 26553.74    | 0.0026 | P        | 23.1 |

$$y = 3.6510E-004 * x + 1.0930E-005$$

$$R = 1.0000$$

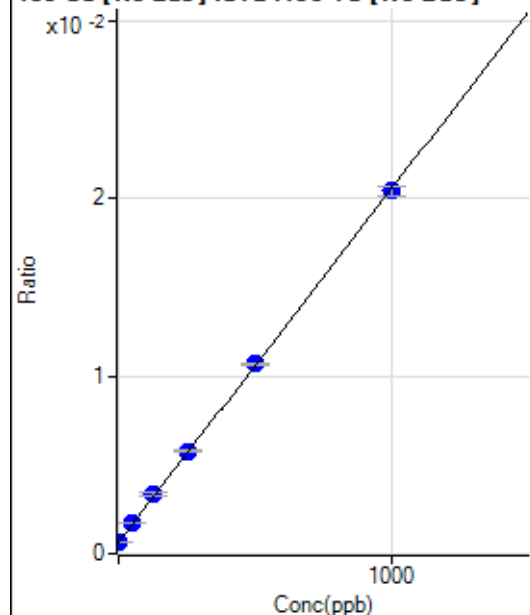
$$DL = 0.01985$$

$$BEC = 0.02994$$

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      | 4484.20   | 0.0006 | P   | 7.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.572      | 4528.63   | 0.0007 | P   | 8.0 |
| 3 | <input type="checkbox"/> | 50.000   | 53.471     | 12094.53  | 0.0017 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 137.313    | 23837.92  | 0.0034 | P   | 7.4 |
| 5 | <input type="checkbox"/> | 250.000  | 257.276    | 41875.63  | 0.0058 | P   | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 504.835    | 77792.38  | 0.0107 | P   | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.052    | 148948.24 | 0.0204 | P   | 2.7 |
| 8 | <input type="checkbox"/> |          |            | 3870.09   | 0.0006 | P   | 3.6 |

$$y = 1.9883\text{E-}005 * x + 6.4472\text{E-}004$$

$$R = 0.9999$$

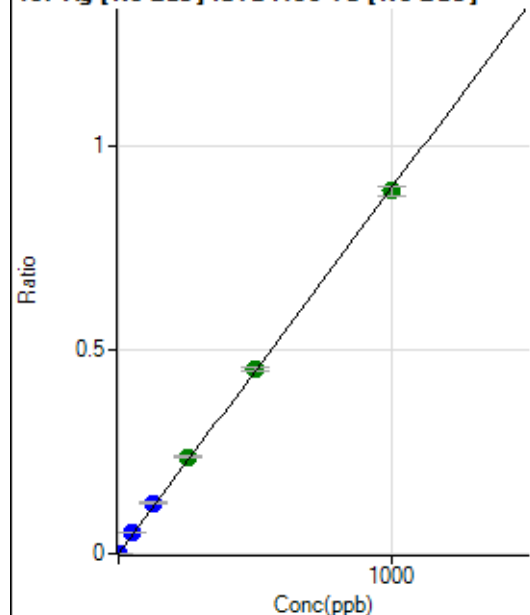
$$DL = 7.627$$

$$BEC = 32.42$$

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      | 525.03     | 0.0001 | P   | 12.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.153      | 7649.57    | 0.0011 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 56.020     | 356205.03  | 0.0503 | P   | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 138.073    | 875386.16  | 0.1239 | P   | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 265.424    | 1730670.89 | 0.2381 | A   | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 503.287    | 3286818.72 | 0.4513 | A   | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.565    | 6495536.99 | 0.8901 | A   | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 9100.48    | 0.0013 | P   | 7.5  |

$$y = 8.9665\text{E-}004 * x + 7.5393\text{E-}005$$

$$R = 0.9998$$

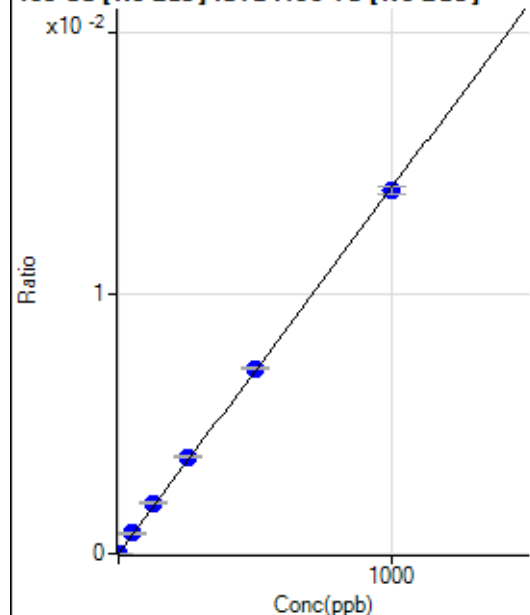
$$DL = 0.03228$$

$$BEC = 0.08408$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 26.39     | 0.0000 | P   | 64.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.050      | 127.78    | 0.0000 | P   | 30.0 |
| 3 | <input type="checkbox"/> | 50.000   | 54.951     | 5492.84   | 0.0008 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 137.950    | 13720.83  | 0.0019 | P   | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 263.755    | 26959.81  | 0.0037 | P   | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 505.590    | 51745.73  | 0.0071 | P   | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.900    | 101720.25 | 0.0139 | P   | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 98.61     | 0.0000 | P   | 9.0  |

$$y = 1.4047\text{E-}005 * x + 3.7905\text{E-}006$$

$$R = 0.9998$$

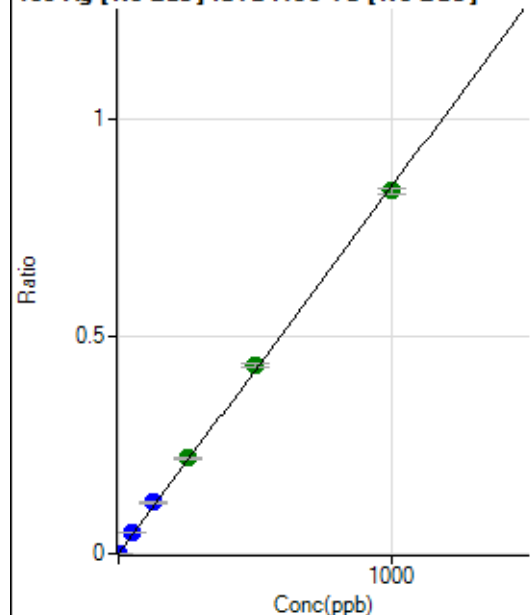
$$DL = 0.5244$$

$$BEC = 0.2698$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 547.25     | 0.0001 | P   | 6.6  |
| 2 | <input type="checkbox"/> | 1.000    | 1.165      | 7343.83    | 0.0011 | P   | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 56.301     | 337845.47  | 0.0477 | P   | 3.2  |
| 4 | <input type="checkbox"/> | 125.000  | 139.116    | 832295.47  | 0.1178 | P   | 3.1  |
| 5 | <input type="checkbox"/> | 250.000  | 261.365    | 1608321.65 | 0.2212 | A   | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 513.331    | 3163288.05 | 0.4344 | A   | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.413    | 6104709.34 | 0.8364 | A   | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 8789.15    | 0.0013 | P   | 13.2 |

$$y = 8.4615\text{E-}004 * x + 7.8552\text{E-}005$$

$$R = 0.9997$$

$$DL = 0.01843$$

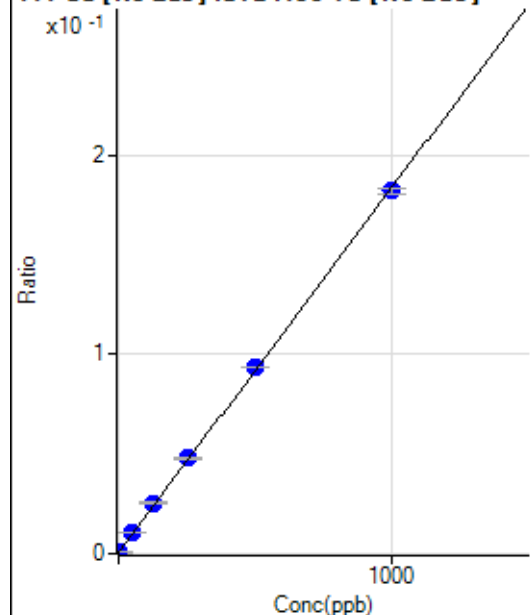
$$BEC = 0.09283$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3144.07    | 0.0005 | P    | 7.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.140      | 4559.87    | 0.0007 | P    | 6.1 |
| 3 | <input type="checkbox"/> | 50.000   | 54.929     | 74395.89   | 0.0105 | P    | 2.6 |
| 4 | <input type="checkbox"/> | 125.000  | 135.901    | 178990.32  | 0.0253 | P    | 2.8 |
| 5 | <input type="checkbox"/> | 250.000  | 259.144    | 348085.52  | 0.0479 | P    | 2.9 |
| 6 | <input type="checkbox"/> | 500.000  | 508.111    | 680600.91  | 0.0935 | P    | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.049    | 1328707.44 | 0.1821 | P    | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 3437.29    | 0.0005 | P    | 5.4 |

$$y = 1.8305\text{E-}004 * x + 4.5204\text{E-}004$$

$$R = 0.9999$$

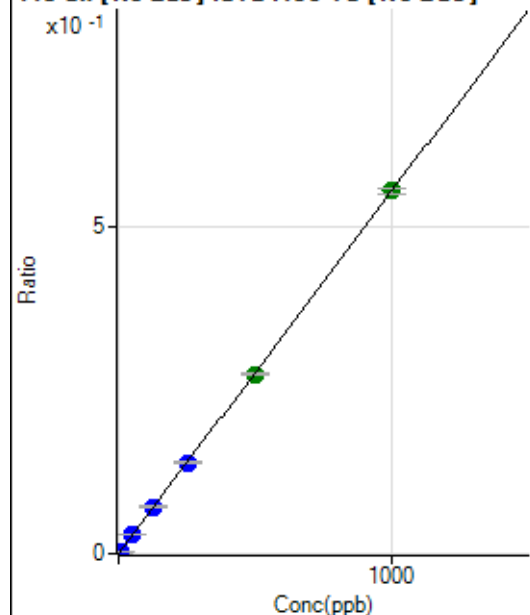
$$DL = 0.5835$$

$$BEC = 2.469$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 630.59     | 0.0001 | P    | 7.2  |
| 2 | <input type="checkbox"/> | 5.000    | 5.249      | 20638.28   | 0.0030 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.886     | 203680.08  | 0.0288 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 128.764    | 503417.28  | 0.0712 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 250.692    | 1007771.38 | 0.1386 | P    | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 495.715    | 1995198.07 | 0.2740 | A    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.403   | 4039258.51 | 0.5534 | A    | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 7185.45    | 0.0010 | P    | 12.8 |

$$y = 5.5255\text{E-}004 * x + 9.0650\text{E-}005$$

$$R = 1.0000$$

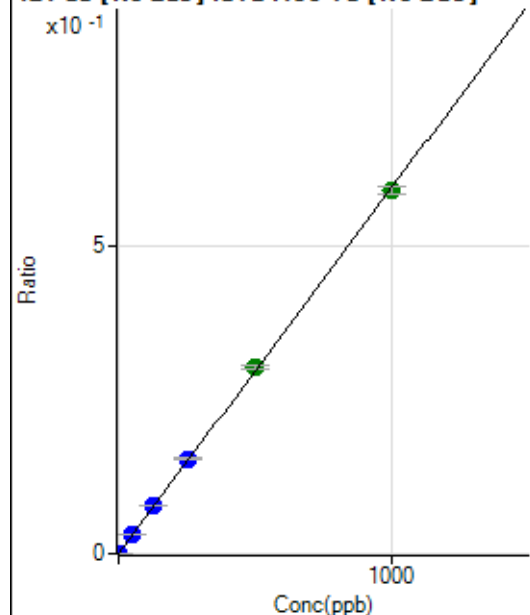
$$DL = 0.03526$$

$$BEC = 0.1641$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.11      | 0.0000 | P        | 18.1 |
| 2 | <input type="checkbox"/> | 2.000    | 2.171      | 8950.44    | 0.0013 | P        | 6.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.837     | 222146.54  | 0.0314 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 132.369    | 555316.13  | 0.0786 | P        | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 259.804    | 1121210.93 | 0.1542 | P        | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 508.924    | 2199940.85 | 0.3021 | A        | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.024    | 4297939.60 | 0.5889 | A        | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 21584.29   | 0.0031 | P        | 2.4  |

$$y = 5.9361\text{E-}004 * x + 8.8026\text{E-}006$$

$$R = 0.9999$$

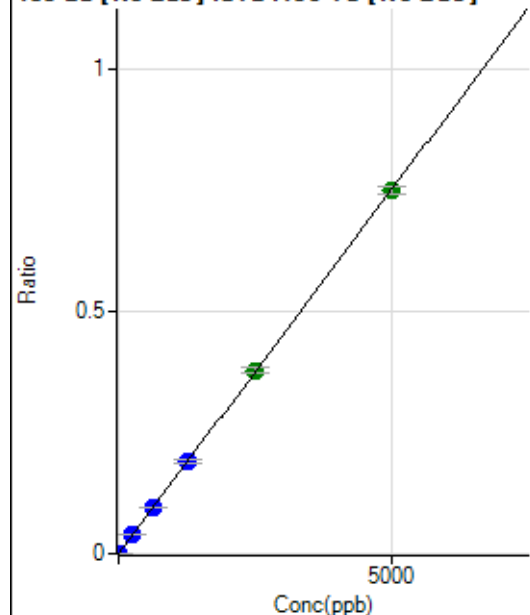
$$DL = 0.008047$$

$$BEC = 0.01483$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 63.89      | 0.0000 | P        | 16.9 |
| 2 | <input type="checkbox"/> | 10.000   | 10.305     | 10735.11   | 0.0016 | P        | 1.4  |
| 3 | <input type="checkbox"/> | 250.000  | 257.172    | 273367.61  | 0.0386 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 636.787    | 675415.81  | 0.0956 | P        | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1265.816   | 1380805.00 | 0.1900 | P        | 2.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2519.293   | 2752979.77 | 0.3781 | A        | 3.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4984.567   | 5459696.78 | 0.7481 | A        | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 7574.58    | 0.0011 | P        | 14.4 |

$$y = 1.5008\text{E-}004 * x + 9.1923\text{E-}006$$

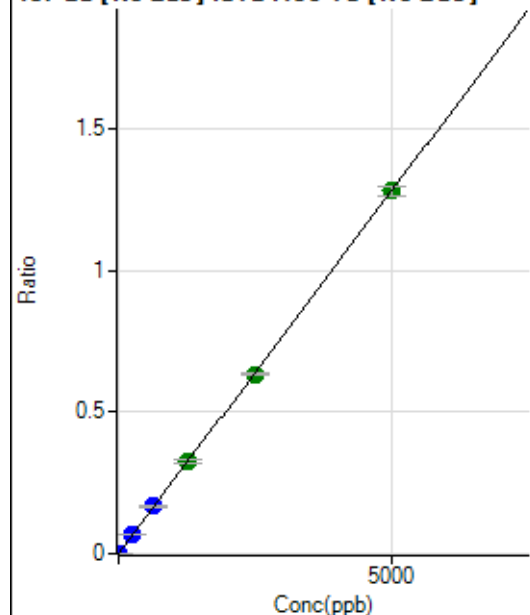
$$R = 1.0000$$

$$DL = 0.03108$$

$$BEC = 0.06125$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78      | 0.0000 | P        | 17.6 |
| 2 | <input type="checkbox"/> | 10.000   | 10.371     | 18371.35   | 0.0027 | P        | 2.6  |
| 3 | <input type="checkbox"/> | 250.000  | 257.694    | 467205.95  | 0.0660 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 625.000  | 653.170    | 1181595.29 | 0.1672 | P        | 2.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1269.891   | 2362547.21 | 0.3251 | A        | 4.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2477.981   | 4619569.37 | 0.6344 | A        | 1.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 5002.130   | 9345738.58 | 1.2806 | A        | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 13195.83   | 0.0019 | P        | 13.6 |

$$y = 2.5601E-004 * x + 7.5722E-006$$

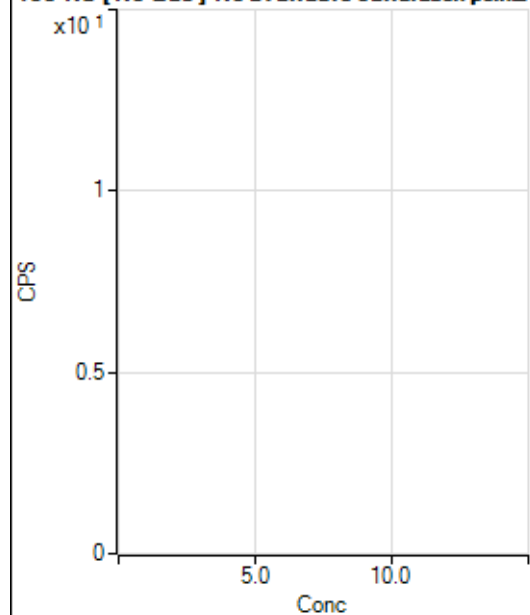
$$R = 1.0000$$

$$DL = 0.01559$$

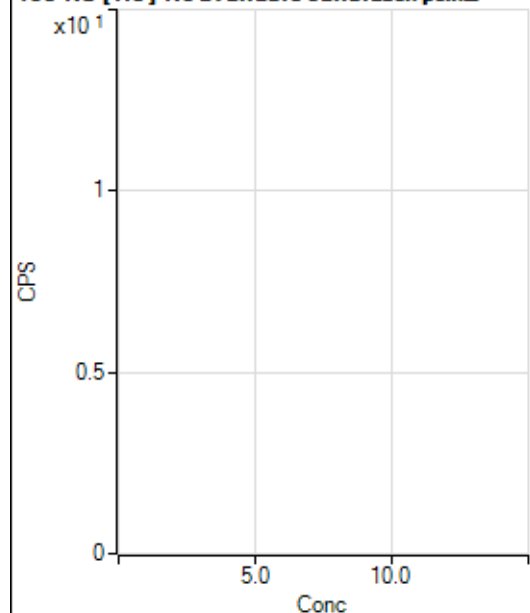
$$BEC = 0.02958$$

Weight: &lt;None&gt;

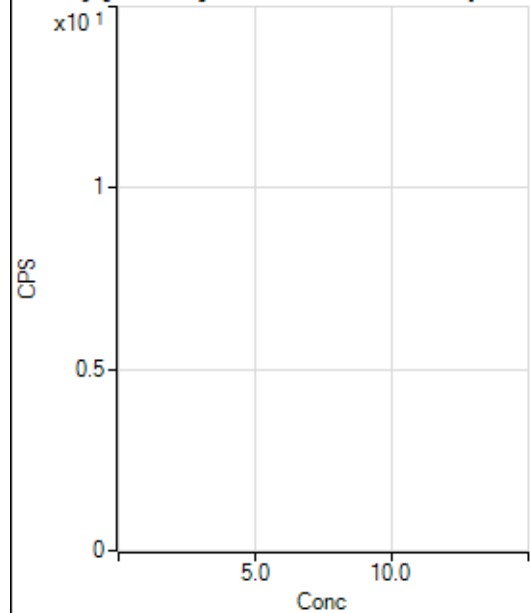
Min Conc: 0

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

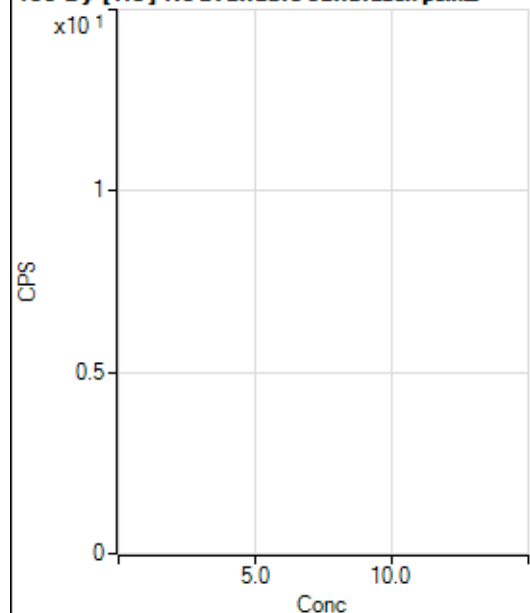
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 13.33  |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 25.0 |
| 4 | <input type="checkbox"/> |       |            | 82.23  |       | P        | 12.4 |
| 5 | <input type="checkbox"/> |       |            | 148.89 |       | P        | 5.2  |
| 6 | <input type="checkbox"/> |       |            | 280.01 |       | P        | 14.9 |
| 7 | <input type="checkbox"/> |       |            | 448.91 |       | P        | 11.3 |
| 8 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 26.6 |

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

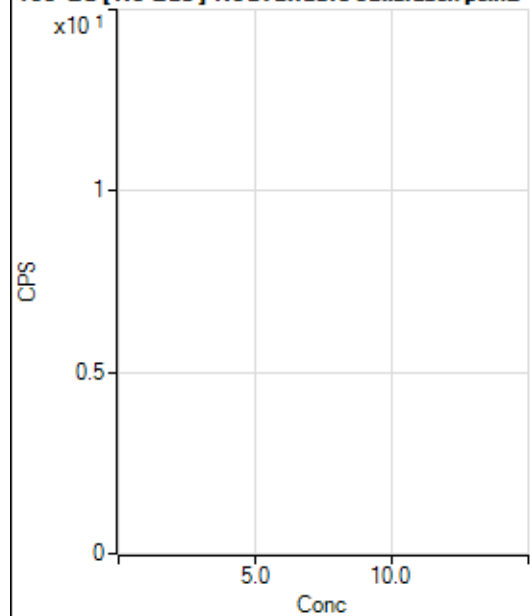
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6 |
| 4 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 89.2 |
| 5 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 78.1 |
| 6 | <input type="checkbox"/> |       |            | 24.45 |       | P        | 28.4 |
| 7 | <input type="checkbox"/> |       |            | 24.45 |       | P        | 28.4 |
| 8 | <input type="checkbox"/> |       |            | 14.45 |       | P        | 48.0 |

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

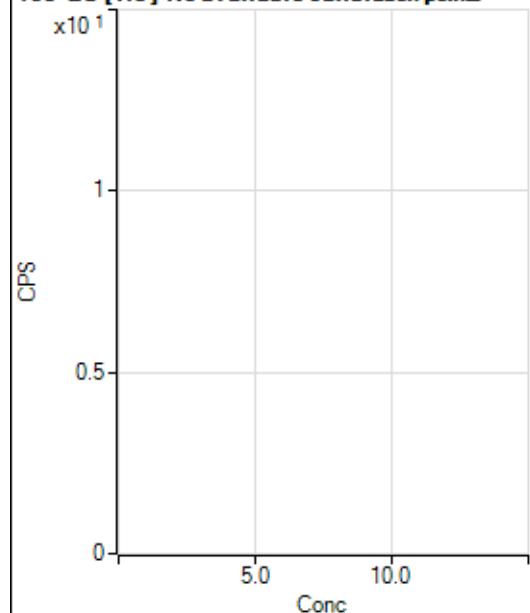
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.78   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 8.33   |       | P        | 100. |
| 3 | <input type="checkbox"/> |       |            | 30.56  |       | P        | 41.7 |
| 4 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 40.8 |
| 5 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 35.7 |
| 6 | <input type="checkbox"/> |       |            | 183.34 |       | P        | 16.4 |
| 7 | <input type="checkbox"/> |       |            | 305.57 |       | P        | 27.6 |
| 8 | <input type="checkbox"/> |       |            | 952.84 |       | P        | 8.6  |

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

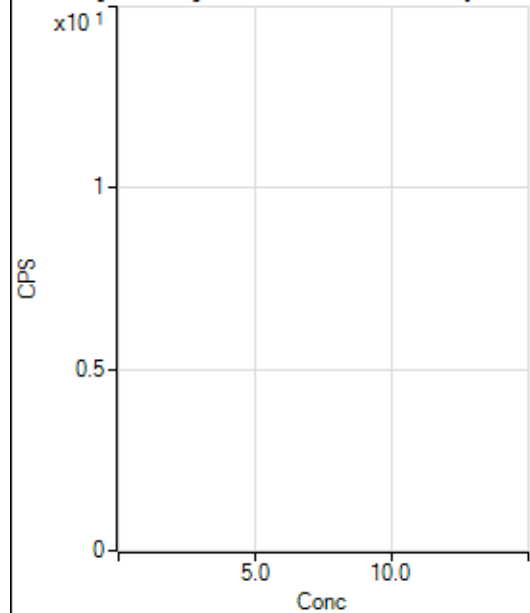
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 12.22  |       | P        | 56.8 |
| 4 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 10.0 |
| 5 | <input type="checkbox"/> |       |            | 45.55  |       | P        | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 21.2 |
| 7 | <input type="checkbox"/> |       |            | 163.34 |       | P        | 10.2 |
| 8 | <input type="checkbox"/> |       |            | 410.01 |       | P        | 2.4  |

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

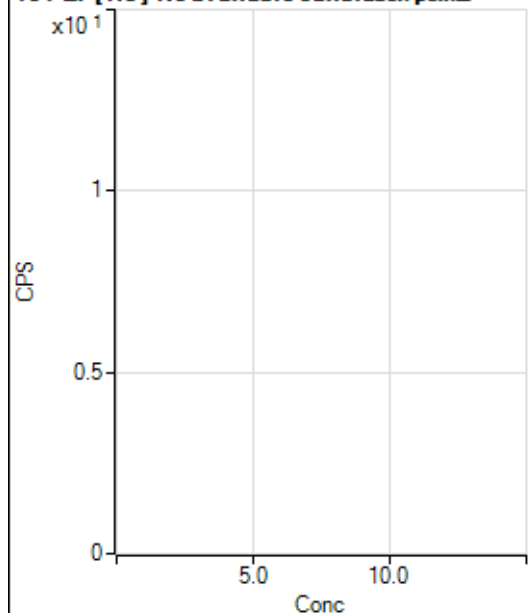
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 77.78   |       | P        | 34.4 |
| 2 | <input type="checkbox"/> |       |            | 77.78   |       | P        | 40.6 |
| 3 | <input type="checkbox"/> |       |            | 63.89   |       | P        | 49.4 |
| 4 | <input type="checkbox"/> |       |            | 119.45  |       | P        | 14.5 |
| 5 | <input type="checkbox"/> |       |            | 102.78  |       | P        | 20.4 |
| 6 | <input type="checkbox"/> |       |            | 161.12  |       | P        | 49.2 |
| 7 | <input type="checkbox"/> |       |            | 336.13  |       | P        | 8.7  |
| 8 | <input type="checkbox"/> |       |            | 1069.52 |       | P        | 8.3  |

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

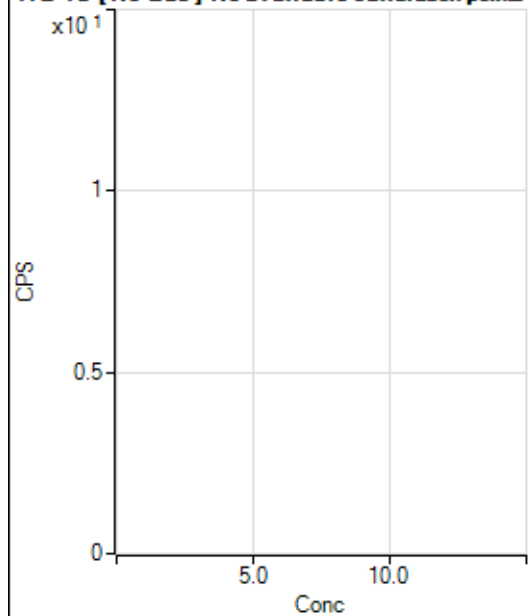
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 38.3 |
| 2 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 7.5  |
| 3 | <input type="checkbox"/> |       |            | 85.55  |       | P        | 19.6 |
| 4 | <input type="checkbox"/> |       |            | 97.78  |       | P        | 17.5 |
| 5 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 18.6 |
| 6 | <input type="checkbox"/> |       |            | 137.78 |       | P        | 20.6 |
| 7 | <input type="checkbox"/> |       |            | 178.89 |       | P        | 11.4 |
| 8 | <input type="checkbox"/> |       |            | 562.24 |       | P        | 5.4  |

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

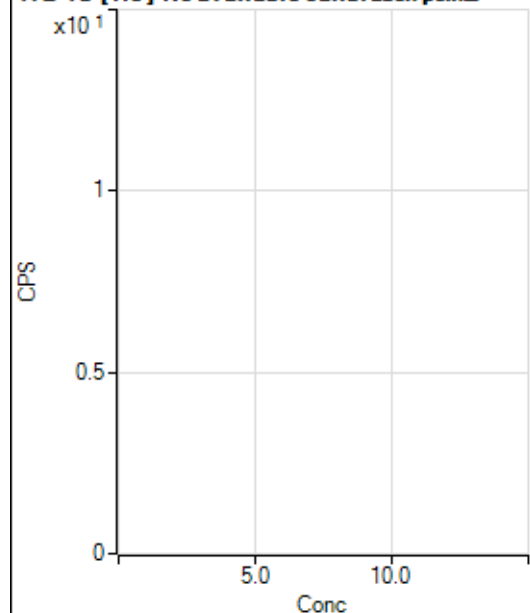
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 22.3 |
| 2 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 69.44  |       | P        | 70.3 |
| 4 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 0.0  |
| 5 | <input type="checkbox"/> |       |            | 86.11  |       | P        | 34.0 |
| 6 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 21.0 |
| 7 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 15.1 |
| 8 | <input type="checkbox"/> |       |            | 80.56  |       | P        | 31.6 |

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

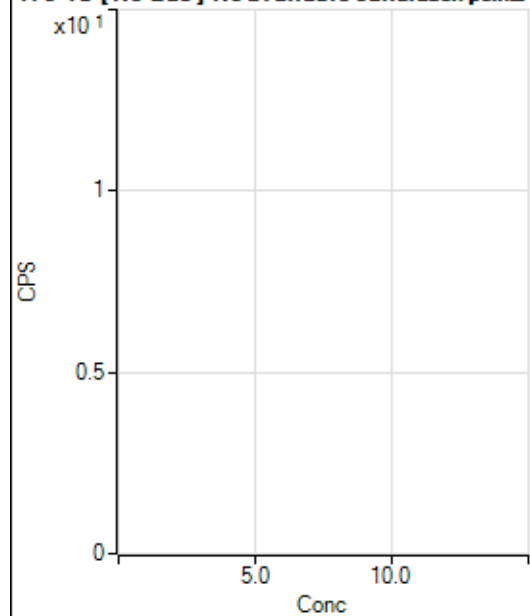
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 14.45 |       | P        | 48.0 |
| 2 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 28.9 |
| 3 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 27.0 |
| 4 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 31.2 |
| 5 | <input type="checkbox"/> |       |            | 32.22 |       | P        | 52.1 |
| 6 | <input type="checkbox"/> |       |            | 48.89 |       | P        | 25.8 |
| 7 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 25.0 |
| 8 | <input type="checkbox"/> |       |            | 36.67 |       | P        | 24.1 |

**172 Yb [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 109. |
| 2 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 32.7 |
| 3 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 45.8 |
| 4 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 39.7 |
| 5 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 24.1 |
| 6 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 15.2 |
| 7 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 21.7 |
| 8 | <input type="checkbox"/> |       |            | 361.13 |       | P        | 6.7  |

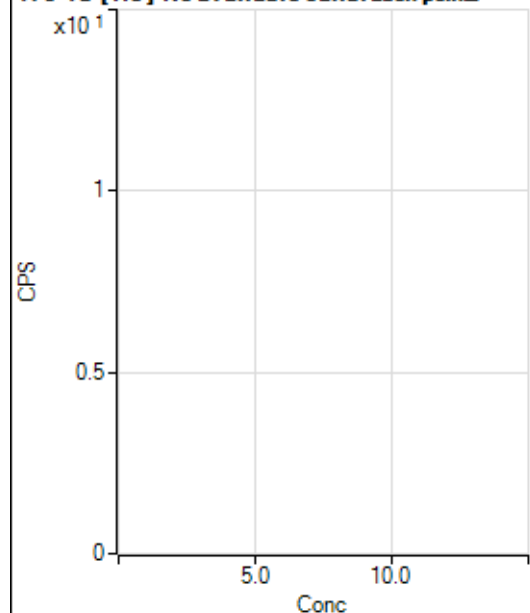
**172 Yb [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 57.7 |
| 2 | <input type="checkbox"/> |       |            | 20.37  |       | P        | 15.7 |
| 3 | <input type="checkbox"/> |       |            | 31.48  |       | P        | 36.7 |
| 4 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 52.9 |
| 5 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 20.0 |
| 6 | <input type="checkbox"/> |       |            | 62.97  |       | P        | 20.4 |
| 7 | <input type="checkbox"/> |       |            | 70.37  |       | P        | 4.6  |
| 8 | <input type="checkbox"/> |       |            | 179.63 |       | P        | 1.8  |

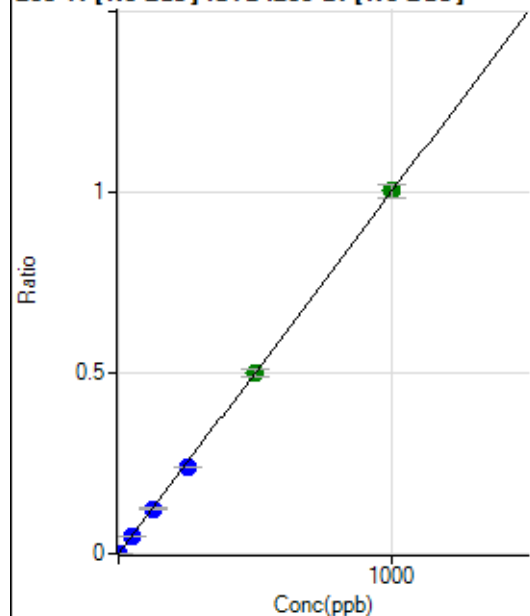
**176 Yb [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 1408.45  |       | P        | 5.6 |
| 2 | <input type="checkbox"/> |       |            | 1514.02  |       | P        | 8.3 |
| 3 | <input type="checkbox"/> |       |            | 2369.71  |       | P        | 6.7 |
| 4 | <input type="checkbox"/> |       |            | 3650.63  |       | P        | 2.8 |
| 5 | <input type="checkbox"/> |       |            | 5857.04  |       | P        | 3.9 |
| 6 | <input type="checkbox"/> |       |            | 10254.29 |       | P        | 1.2 |
| 7 | <input type="checkbox"/> |       |            | 19462.09 |       | P        | 3.3 |
| 8 | <input type="checkbox"/> |       |            | 1516.79  |       | P        | 9.0 |



**176 Yb [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|----------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 6972.33  |       | P        | 6.2  |
| 2 | <input type="checkbox"/> |       |            | 6959.37  |       | P        | 7.3  |
| 3 | <input type="checkbox"/> |       |            | 7400.36  |       | P        | 1.8  |
| 4 | <input type="checkbox"/> |       |            | 7846.93  |       | P        | 4.2  |
| 5 | <input type="checkbox"/> |       |            | 8350.96  |       | P        | 10.5 |
| 6 | <input type="checkbox"/> |       |            | 10550.68 |       | P        | 3.3  |
| 7 | <input type="checkbox"/> |       |            | 14235.63 |       | P        | 2.0  |
| 8 | <input type="checkbox"/> |       |            | 6607.31  |       | P        | 2.5  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89      | 0.0000 | P        | 42.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.975      | 3956.26    | 0.0010 | P        | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 49.245     | 197852.88  | 0.0492 | P        | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 123.687    | 499092.11  | 0.1237 | P        | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 238.875    | 1010935.89 | 0.2388 | P        | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 499.667    | 2048664.28 | 0.4995 | A        | 5.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.150   | 4125420.32 | 1.0028 | A        | 3.5  |
| 8 | <input type="checkbox"/> |          |            | 2958.78    | 0.0008 | P        | 18.9 |

$$y = 9.9959\text{E-}004 * x + 2.2138\text{E-}005$$

$$R = 0.9999$$

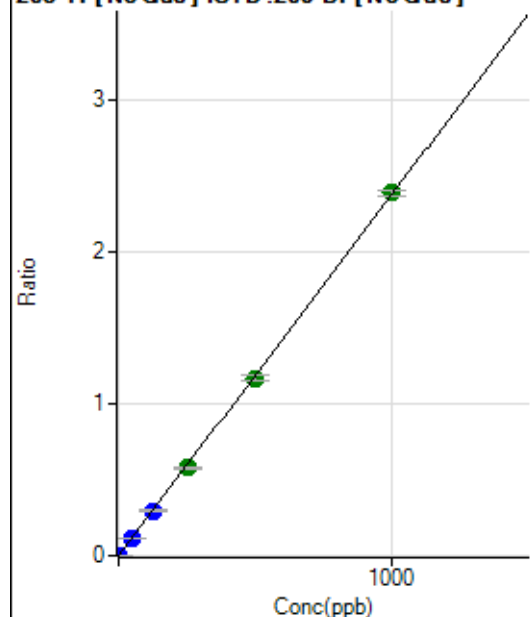
$$DL = 0.02801$$

$$BEC = 0.02215$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 219.45     | 0.0001 | P        | 15.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.022      | 9854.03    | 0.0025 | P        | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 49.805     | 475537.46  | 0.1184 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 124.832    | 1196785.65 | 0.2966 | P        | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 244.012    | 2453858.17 | 0.5797 | A        | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 492.757    | 4801736.96 | 1.1705 | A        | 4.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.149   | 9823752.65 | 2.3876 | A        | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 7138.38    | 0.0020 | P        | 16.7 |

$$y = 0.0024 * x + 5.4811E-005$$

$$R = 0.9999$$

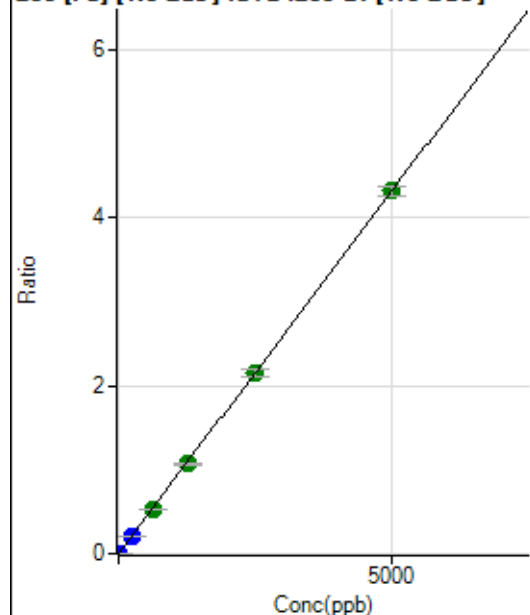
$$DL = 0.0109$$

$$BEC = 0.02308$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 548.17      | 0.0001 | P        | 6.4  |
| 2 | <input type="checkbox"/> | 1.000    | 0.888      | 3582.04     | 0.0009 | P        | 5.4  |
| 3 | <input type="checkbox"/> | 250.000  | 241.301    | 836105.81   | 0.2081 | P        | 0.5  |
| 4 | <input type="checkbox"/> | 625.000  | 609.476    | 2119859.00  | 0.5254 | A        | 3.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1235.802   | 4508941.24  | 1.0652 | A        | 2.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2496.193   | 8825943.95  | 2.1514 | A        | 4.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 5007.828   | 17757650.28 | 4.3159 | A        | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 8777.50     | 0.0024 | P        | 24.9 |

$$y = 8.6181E-004 * x + 1.3686E-004$$

$$R = 1.0000$$

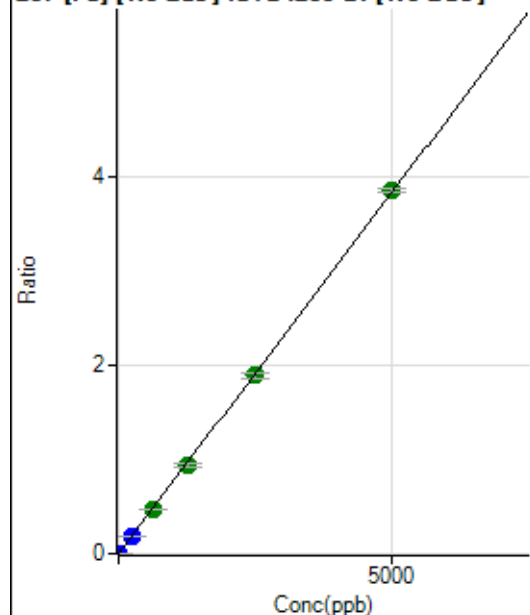
$$DL = 0.03063$$

$$BEC = 0.1588$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 429.64      | 0.0001 | P        | 7.5  |
| 2 | <input type="checkbox"/> | 1.000    | 0.917      | 3213.43     | 0.0008 | P        | 2.6  |
| 3 | <input type="checkbox"/> | 250.000  | 241.556    | 743518.15   | 0.1851 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 625.000  | 611.279    | 1889545.22  | 0.4682 | A        | 2.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1217.013   | 3944762.18  | 0.9320 | A        | 4.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2468.984   | 7758366.61  | 1.8907 | A        | 3.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 5025.892   | 15837823.04 | 3.8487 | A        | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 7513.72     | 0.0021 | P        | 24.9 |

$$y = 7.6575E-004 * x + 1.0725E-004$$

$$R = 0.9999$$

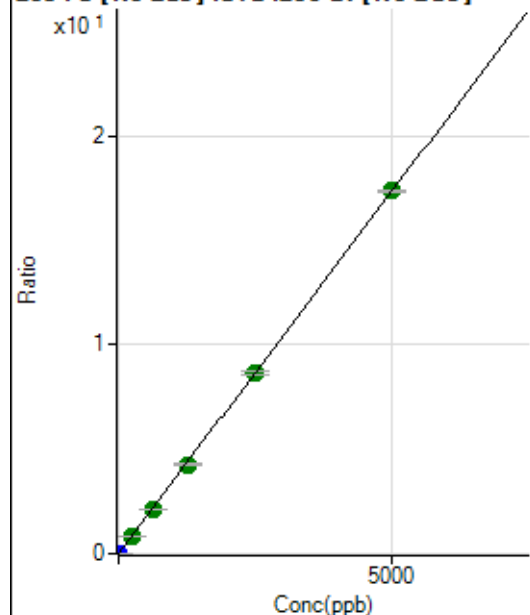
$$DL = 0.03168$$

$$BEC = 0.1401$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2070.48     | 0.0005  | P        | 3.5  |
| 2 | <input type="checkbox"/> | 1.000    | 0.897      | 14397.83    | 0.0036  | P        | 3.6  |
| 3 | <input type="checkbox"/> | 250.000  | 246.801    | 3438574.85  | 0.8558  | A        | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 611.359    | 8553163.70  | 2.1193  | A        | 3.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1227.238   | 18006675.40 | 4.2537  | A        | 2.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2492.038   | 35444735.98 | 8.6371  | A        | 2.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 5011.537   | 71471528.80 | 17.3689 | A        | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 34524.96    | 0.0096  | P        | 25.4 |

$$y = 0.0035 * x + 5.1691E-004$$

$$R = 1.0000$$

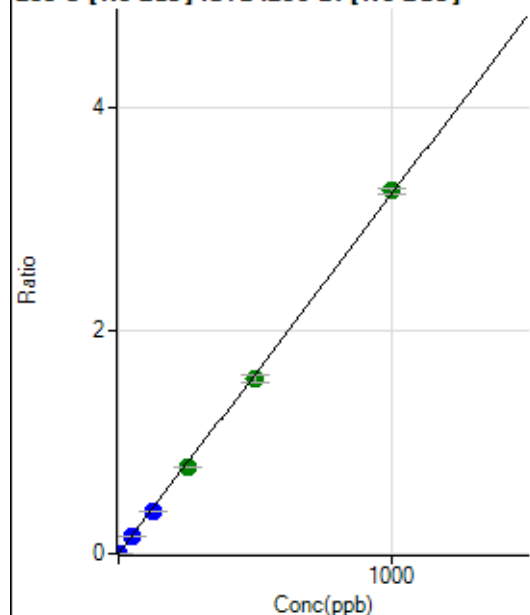
$$DL = 0.01566$$

$$BEC = 0.1492$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 138.90      | 0.0000 | P        | 39.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.939      | 12158.97    | 0.0031 | P        | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 46.831     | 606552.24   | 0.1510 | P        | 2.5  |
| 4 | <input type="checkbox"/> | 125.000  | 116.783    | 1519023.07  | 0.3764 | P        | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 239.719    | 3270952.07  | 0.7727 | A        | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 488.585    | 6459942.25  | 1.5747 | A        | 4.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.463   | 13386402.04 | 3.2535 | A        | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 4501.11     | 0.0013 | P        | 42.2 |

$$y = 0.0032 * x + 3.4620E-005$$

$$R = 0.9998$$

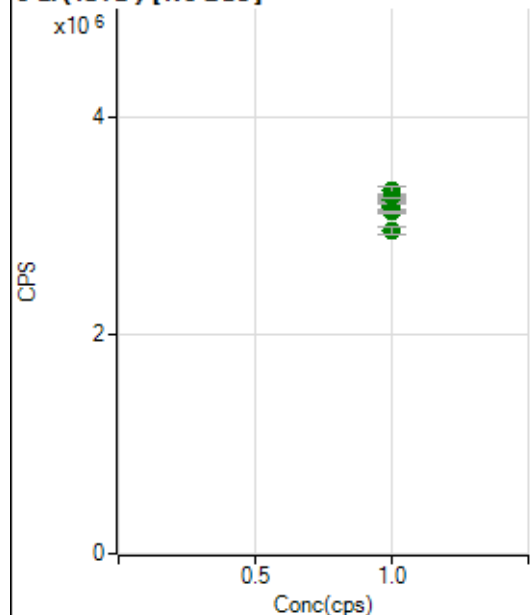
$$DL = 0.01268$$

$$BEC = 0.01074$$

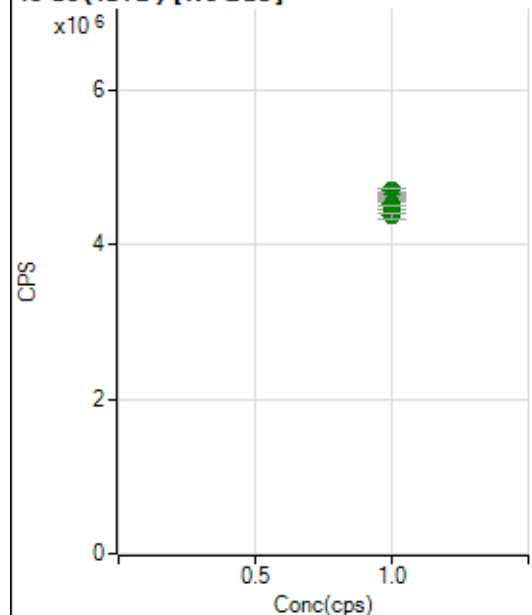
Weight: &lt;None&gt;

Min Conc: 0

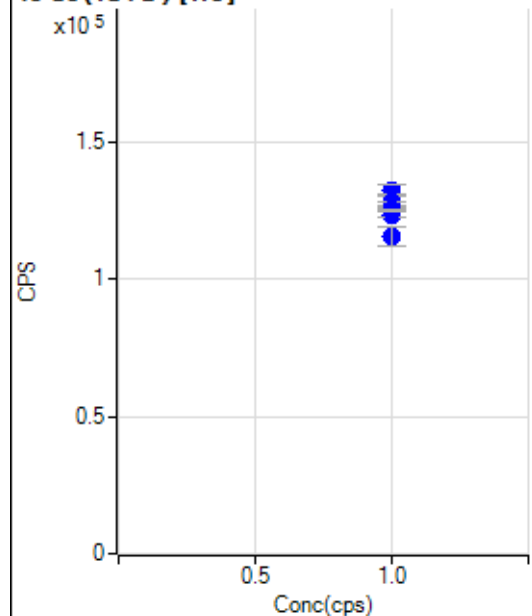
6 Li (ISTD) [No Gas]



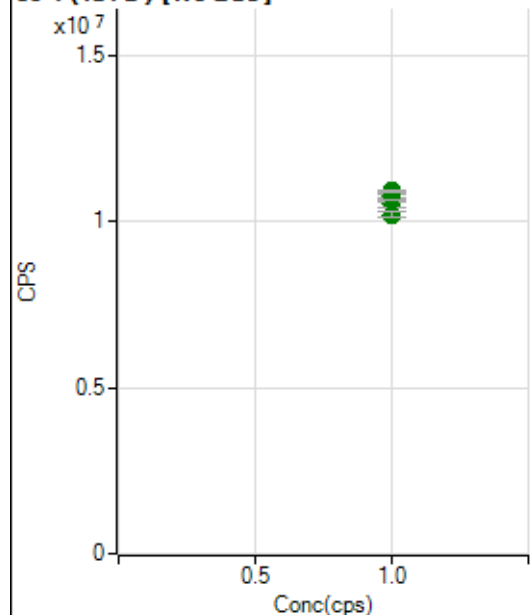
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3254051.95 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3266634.70 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3319730.53 |       | A        | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3185128.50 |       | A        | 2.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3236961.97 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3175884.53 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3123950.24 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2957661.89 |       | A        | 2.5 |

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

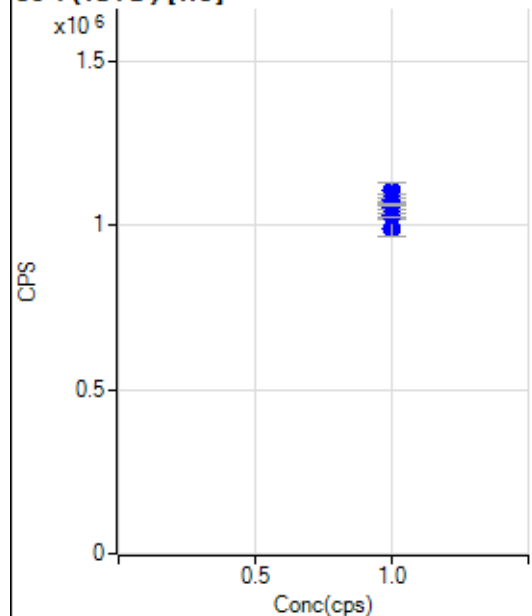
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4498695.56 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4608694.93 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4691850.59 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4588115.38 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4609069.24 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4529132.19 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4502840.49 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4366820.84 |       | A        | 1.7 |

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

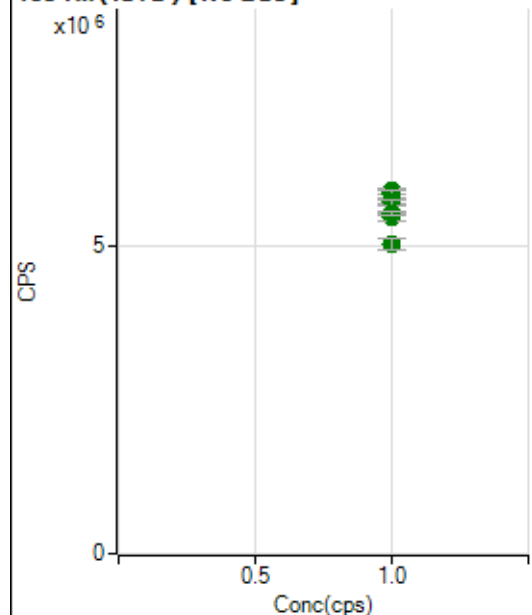
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 132177.01 |       | P        | 3.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 126080.94 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 130733.35 |       | P        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 127968.31 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 115882.41 |       | P        | 6.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 123345.01 |       | P        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 125276.19 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 124864.18 |       | P        | 0.6 |

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

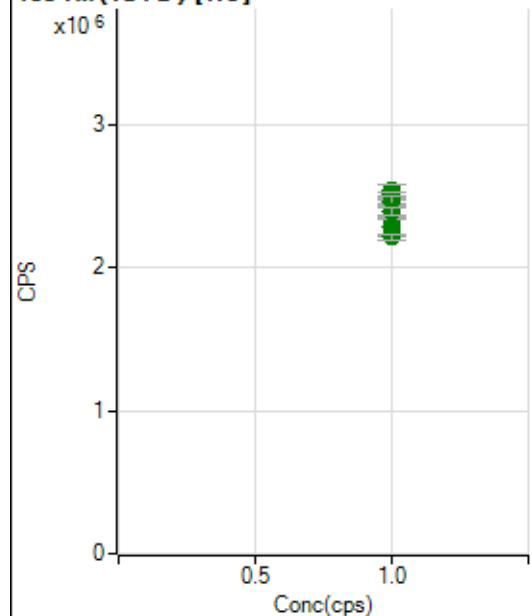
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10683208.73 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10534522.06 |       | A        | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10736656.16 |       | A        | 2.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10894004.70 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10779231.71 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10761704.70 |       | A        | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10927117.96 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10217352.28 |       | A        | 2.0 |

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

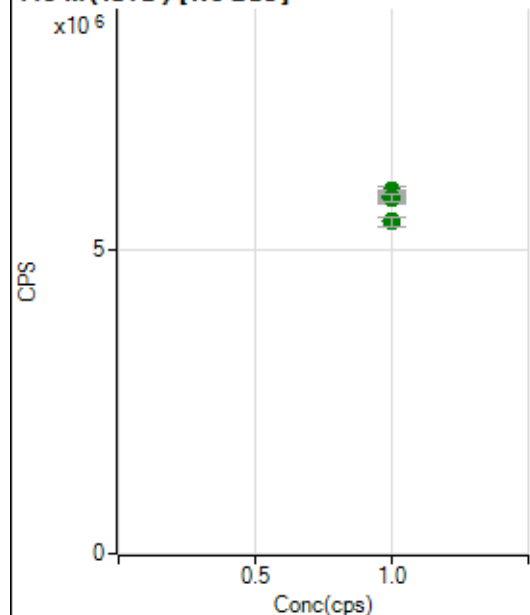
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1104520.56 |       | P        | 4.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1069455.73 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1093398.80 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1076914.60 |       | P        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 991070.24  |       | P        | 5.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1031809.43 |       | P        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1053493.62 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1064263.90 |       | P        | 0.5 |

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

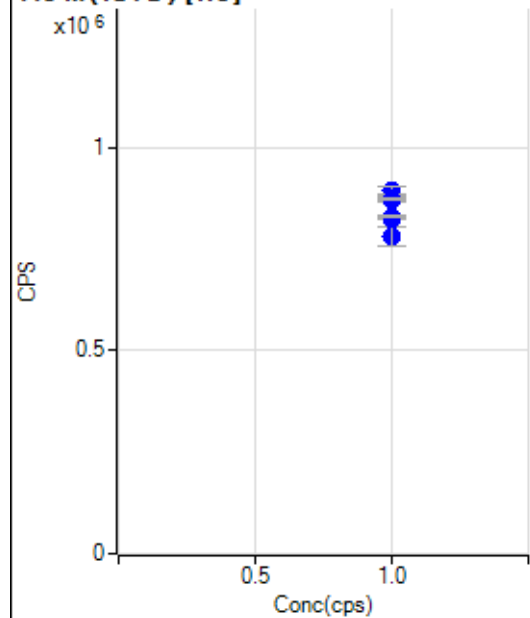
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5859368.01 |       | A        | 2.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5775283.98 |       | A        | 2.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5893217.19 |       | A        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5836261.72 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5709257.16 |       | A        | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5457593.05 |       | A        | 2.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5526095.96 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5033510.66 |       | A        | 4.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2534044.44 |       | A        | 3.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2454640.07 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2506448.35 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2463397.27 |       | A        | 2.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2277488.30 |       | A        | 5.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2343049.58 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2395189.22 |       | A        | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2209483.40 |       | A        | 1.7 |

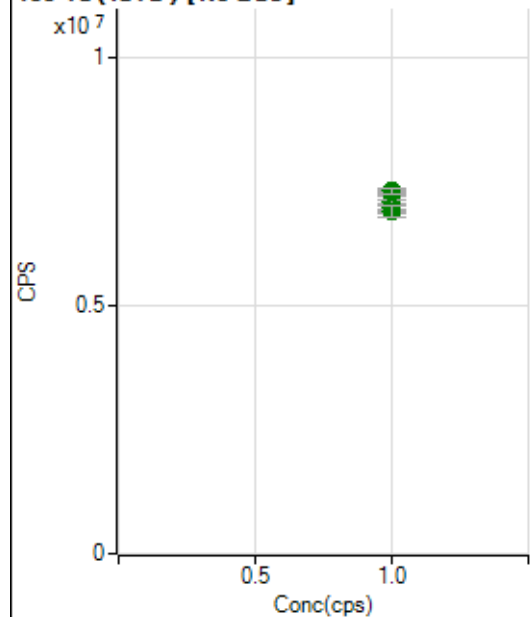
**115 In (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5868159.81 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5869959.81 |       | A        | 1.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5931923.95 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5965922.01 |       | A        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5949644.79 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5854346.84 |       | A        | 3.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5855702.78 |       | A        | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5455094.28 |       | A        | 2.8 |

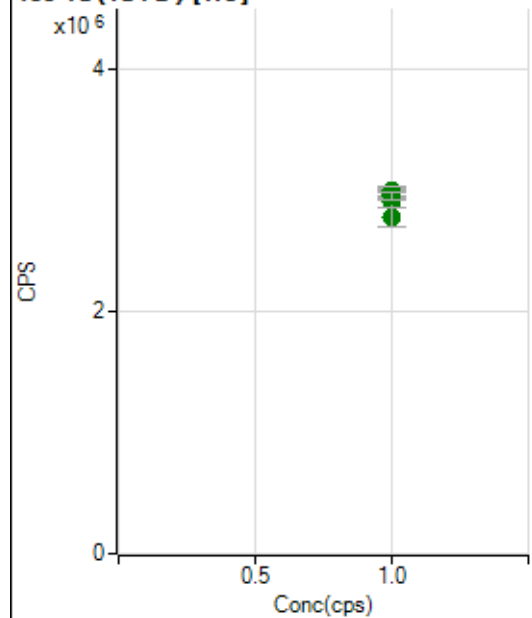
**115 In (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 892892.77 |       | P        | 2.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 869341.42 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 876473.00 |       | P        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 872441.66 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 779799.22 |       | P        | 5.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 825757.62 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 821859.61 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 830238.87 |       | P        | 0.6 |

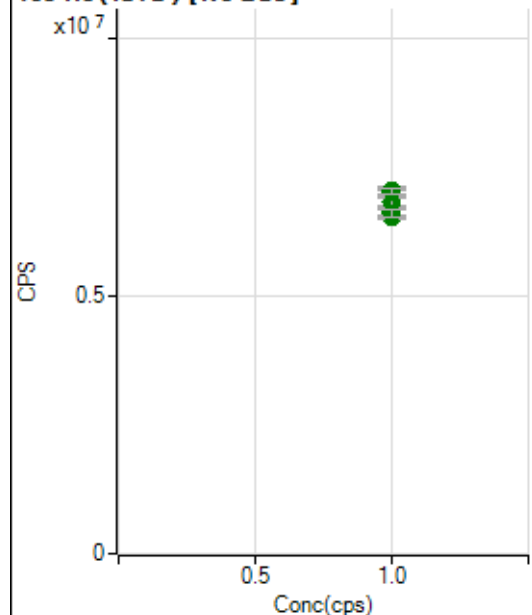


**159 Tb (ISTD) [No Gas]**

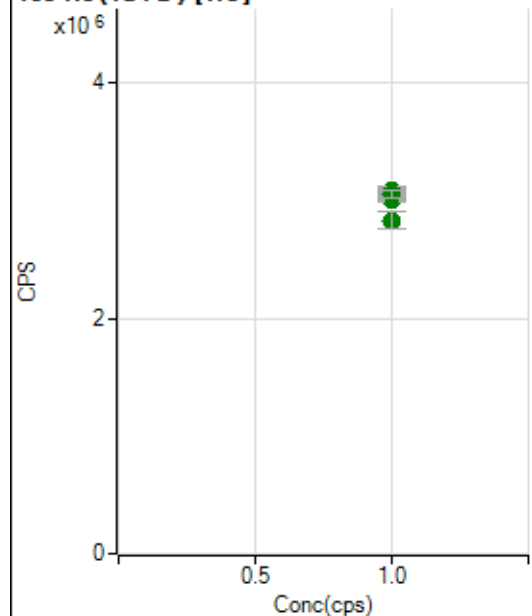
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6965067.26 |       | A        | 2.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6900709.06 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7082323.85 |       | A        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7068077.81 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7270883.50 |       | A        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7281950.10 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7300004.20 |       | A        | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6891515.94 |       | A        | 3.2 |

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

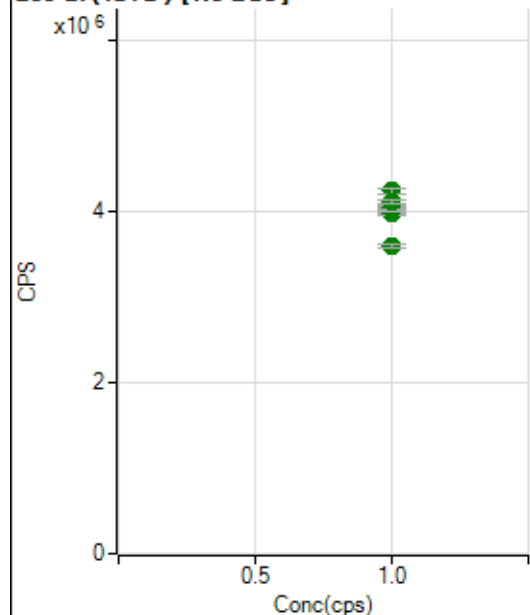
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2979309.05 |       | A        | 3.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2901649.30 |       | A        | 2.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2970348.99 |       | A        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2984899.19 |       | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2783745.29 |       | A        | 5.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2987478.33 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2999236.45 |       | A        | 2.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2961991.17 |       | A        | 2.0 |

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

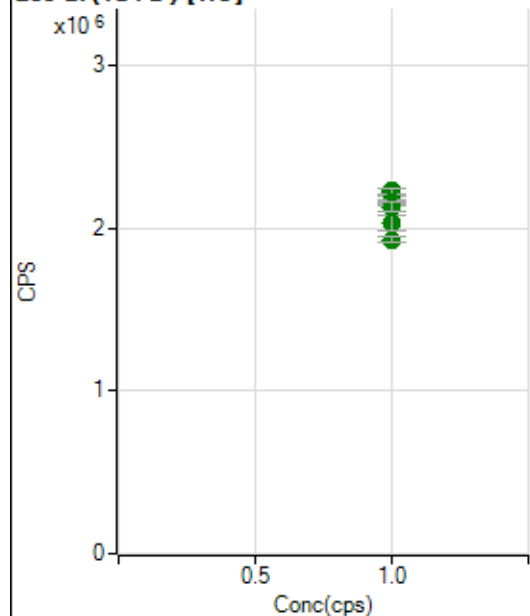
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6534812.78 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6631112.48 |       | A        | 3.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6725476.50 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6813069.68 |       | A        | 3.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7040608.49 |       | A        | 2.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6998319.08 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7041554.93 |       | A        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6599856.66 |       | A        | 2.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3077647.07 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3008175.37 |       | A        | 1.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3051737.56 |       | A        | 3.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3031240.23 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2831866.84 |       | A        | 4.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3060727.04 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3082806.83 |       | A        | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3059834.26 |       | A        | 2.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4004149.91 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3971060.91 |       | A        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4018117.75 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4036164.00 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4233844.76 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4106628.86 |       | A        | 3.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4114837.58 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3592390.64 |       | A        | 1.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2227951.63 |       | A        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2169066.13 |       | A        | 2.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2217101.24 |       | A        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2225977.35 |       | A        | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2033914.94 |       | A        | 4.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2155610.68 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2127318.25 |       | A        | 2.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1925907.28 |       | A        | 1.7 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020123 MS.b

Acq. Date-Time 2023-02-01 12:15:21

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|--------|-----------------|
| 9    |              | 9525  | 95248.02  |                            |             | 1.641  | 5.000           |
| 24   |              | 73301 | 733009.68 |                            |             | 1.864  | 5.000           |
| 25   |              | 9873  | 98725.61  |                            |             | 1.001  | 5.000           |
| 26   |              | 11366 | 113657.34 |                            |             | 0.786  | 5.000           |
| 59   |              | 56149 | 561491.19 |                            |             | 1.304  | 5.000           |
| 113  |              | 5685  | 56845.40  |                            |             | 1.447  | 5.000           |
| 115  |              | 73329 | 733287.37 |                            |             | 0.539  | 5.000           |
| 206  |              | 14319 | 143192.26 |                            |             | 1.421  | 5.000           |
| 207  |              | 12894 | 128938.43 |                            |             | 0.564  | 5.000           |
| 208  |              | 31048 | 310480.82 |                            |             | 1.407  | 5.000           |
| 220  |              | 0     | 4.60      |                            |             | 63.566 |                 |

| Mass | RSD% (Flag) |
|------|-------------|
| 9    |             |
| 24   |             |
| 25   |             |
| 26   |             |
| 59   |             |
| 113  |             |
| 115  |             |
| 206  |             |
| 207  |             |
| 208  |             |
| 220  |             |

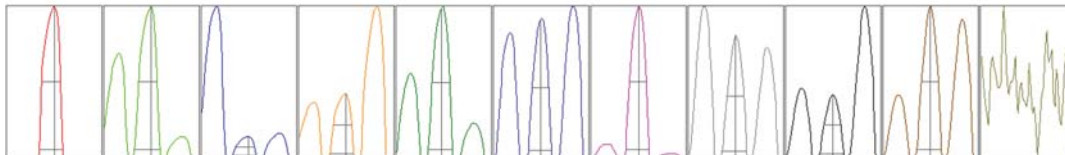
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 9509        | 9418        | 9735        | 9620        | 9343        |
| 24   | 73549       | 74462       | 73560       | 73983       | 70950       |
| 25   | 9927        | 9988        | 9898        | 9814        | 9736        |
| 26   | 11489       | 11421       | 11329       | 11261       | 11328       |
| 59   | 56392       | 56146       | 56866       | 56418       | 54925       |
| 113  | 5756        | 5688        | 5762        | 5655        | 5562        |
| 115  | 73419       | 73292       | 73906       | 73218       | 72809       |
| 206  | 14454       | 14070       | 14401       | 14533       | 14138       |
| 207  | 12954       | 12917       | 12844       | 12961       | 12794       |
| 208  | 31157       | 30952       | 31356       | 31434       | 30342       |

# US EPA Tune Check Report

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 220  | 1           | 0           | 0           | 1           | 0           |

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 17108.58    | 9.05   | 8.90 - 9.10     |             |
| 24   | 131795.69   | 24.00  | 23.90 - 24.10   |             |
| 25   | 17820.69    | 25.00  | 24.90 - 25.10   |             |
| 26   | 20442.54    | 26.00  | 25.90 - 26.10   |             |
| 59   | 104314.37   | 58.95  | 58.90 - 59.10   |             |
| 113  | 11502.29    | 113.00 | 112.90 - 113.10 |             |
| 115  | 146005.97   | 115.05 | 114.90 - 115.10 |             |
| 206  | 28322.12    | 206.00 | 205.90 - 206.10 |             |
| 207  | 25580.54    | 207.00 | 206.90 - 207.10 |             |
| 208  | 61539.14    | 208.00 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.59  | 0.737 | 0.900           |             |
| 24   | 0.59  | 0.809 | 0.900           |             |
| 25   | 0.59  | 0.741 | 0.900           |             |
| 26   | 0.59  | 0.743 | 0.900           |             |
| 59   | 0.56  | 0.772 | 0.900           |             |
| 113  | 0.52  | 0.722 | 0.900           |             |
| 115  | 0.52  | 0.732 | 0.900           |             |
| 206  | 0.53  | 0.772 | 0.900           |             |
| 207  | 0.53  | 0.774 | 0.900           |             |
| 208  | 0.53  | 0.777 | 0.900           |             |
| 220  |       |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

# US EPA Tune Check Report

|              |         |                |          |               |            |
|--------------|---------|----------------|----------|---------------|------------|
| RF Power     | 1600 W  | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |        |            |        |
|------------|----------|---------------|--------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 10.0 V | Deflect    | 16.0 V |
| Extract 2  | -150.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -80 V    | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 150 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 0.9994 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | -0.03  |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 1.0 mm | Torch V | -0.8 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.4 mV | Analog HV | 2306 V | Pulse HV | 1648 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 10676 | 106758.71 |                            |             | 6.961 |                 |
| 89   |              | 11487 | 114869.37 |                            |             | 6.369 |                 |
| 205  |              | 9574  | 95736.90  |                            |             | 5.057 |                 |

| Mass | RSD% (Flag) |
|------|-------------|
| 59   |             |
| 89   |             |
| 205  |             |

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 9353        | 11094       | 10894       | 11038       | 11001       |
| 89   | 10199       | 12024       | 11670       | 11766       | 11775       |
| 205  | 8711        | 9833        | 9759        | 9732        | 9833        |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | ---     | Nebulizer Gas  | 0.87 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |        |         |       |
|-----------|--------|------------|--------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 10.0 V | Deflect | 5.4 V |
|-----------|--------|------------|--------|---------|-------|

# US EPA Tune Check Report

|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -150.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -80 V    | Cell Exit     | -70 V |            |       |

## Cell Parameters

|         |            |              |         |                       |       |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes        | 3rd Gas Flow | ---     | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias    | -18.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V   |                       |       |

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 123 | Axis Gain   | 0.9994 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | -0.03  |         |         |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 1.0 mm | Torch V | -0.8 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.4 mV | Analog HV | 2306 V | Pulse HV | 1648 V |
|---------------|--------|-----------|--------|----------|--------|