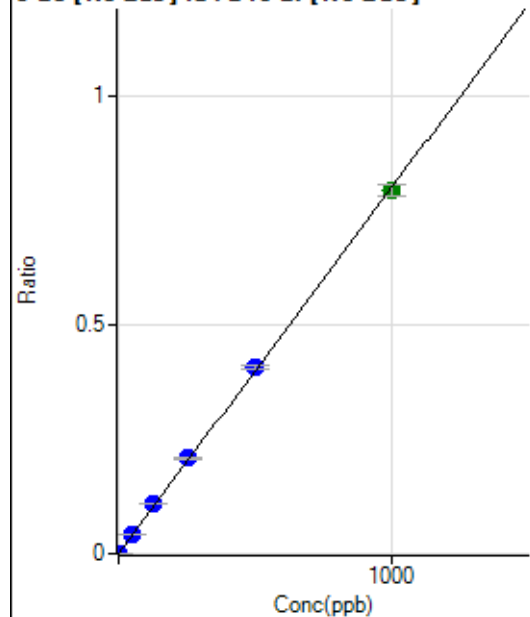


# Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7012925-MSA.b\  
 Analysis File: P7012925-MSA.batch.bin  
 DA Date-Time: 2025-02-06 00:11:13  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2025-01-29 17:56:10 |
| 2     | 006CALS.d          | S02         | 2025-01-29 18:02:44 |
| 3     | 007CALS.d          | S03         | 2025-01-29 18:06:00 |
| 4     | 008CALS.d          | S04         | 2025-01-29 18:09:06 |
| 5     | 009CALS.d          | S05         | 2025-01-29 18:12:01 |
| 6     | 010CALS.d          | S06         | 2025-01-29 18:14:51 |
| 7     | 011CALS.d          | S07         | 2025-01-29 18:17:35 |
| 8     | 012CALS.d          | S08         | 2025-01-29 18:20:23 |

**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      | 181.12     | 0.0001 | P   | 7.3  |
| 2 | <input type="checkbox"/> | 1.000    | 1.162      | 1724.56    | 0.0010 | P   | 0.9  |
| 3 | <input type="checkbox"/> | 50.000   | 54.634     | 73870.99   | 0.0438 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 135.196    | 186023.46  | 0.1083 | P   | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 260.429    | 367698.89  | 0.2084 | P   | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 508.623    | 720870.21  | 0.4070 | P   | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.575    | 1372545.02 | 0.7933 | A   | 3.2  |
| 8 | <input type="checkbox"/> |          |            | 625.58     | 0.0004 | P   | 21.8 |

$$y = 7.9994\text{E-}004 * x + 1.1186\text{E-}004$$

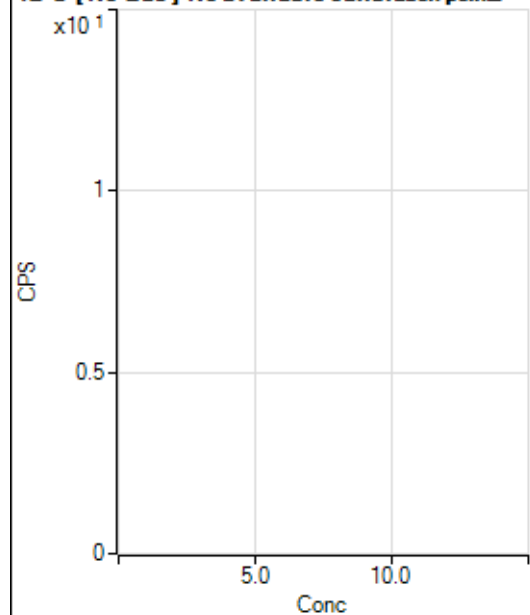
$$R = 0.9999$$

$$DL = 0.03049$$

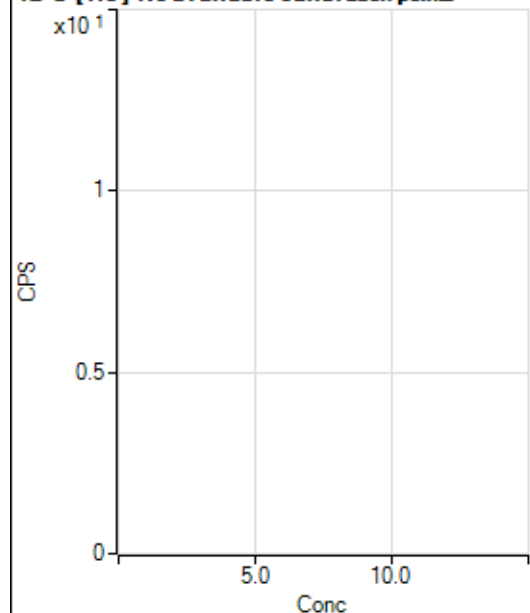
$$BEC = 0.1398$$

Weight: &lt;None&gt;

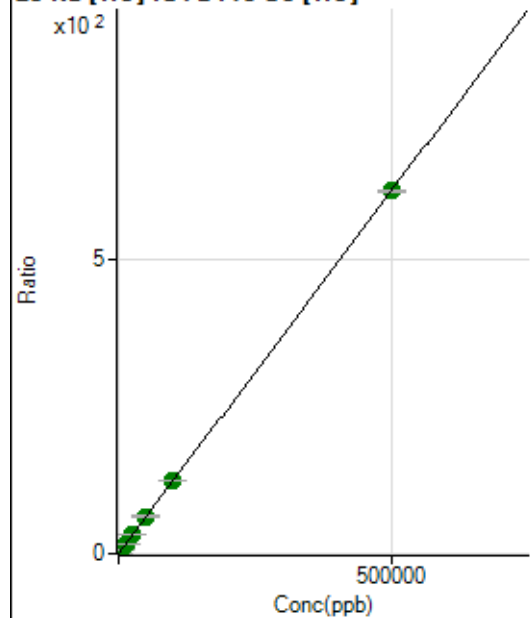
Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |     |     |
| 2 | <input type="checkbox"/> |       |            |     |       |     |     |
| 3 | <input type="checkbox"/> |       |            |     |       |     |     |
| 4 | <input type="checkbox"/> |       |            |     |       |     |     |
| 5 | <input type="checkbox"/> |       |            |     |       |     |     |
| 6 | <input type="checkbox"/> |       |            |     |       |     |     |
| 7 | <input type="checkbox"/> |       |            |     |       |     |     |
| 8 | <input type="checkbox"/> |       |            |     |       |     |     |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |          |     |
| 2 | <input type="checkbox"/> |       |            |     |       |          |     |
| 3 | <input type="checkbox"/> |       |            |     |       |          |     |
| 4 | <input type="checkbox"/> |       |            |     |       |          |     |
| 5 | <input type="checkbox"/> |       |            |     |       |          |     |
| 6 | <input type="checkbox"/> |       |            |     |       |          |     |
| 7 | <input type="checkbox"/> |       |            |     |       |          |     |
| 8 | <input type="checkbox"/> |       |            |     |       |          |     |

**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      | 16901.55    | 0.0390   | P        | 2.1 |
| 2 | <input type="checkbox"/> | 500.000   | 514.425    | 296634.03   | 0.6739   | P        | 1.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 4942.842   | 2663391.64  | 6.1388   | A        | 1.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12721.077  | 6672109.55  | 15.7375  | A        | 1.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 25295.878  | 12786360.78 | 31.2555  | A        | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 51520.494  | 25508427.95 | 63.6181  | A        | 0.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 100213.17  | 49342327.04 | 123.7076 | A        | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 499785.55  | 242967656.3 | 616.8018 | A        | 0.3 |

$$y = 0.0012 * x + 0.0390$$

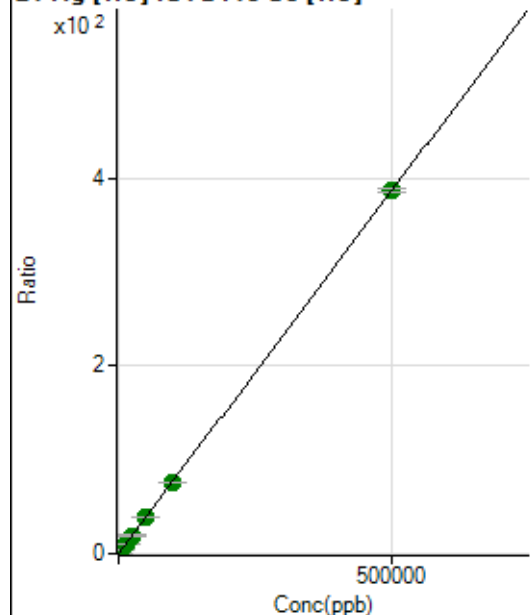
$$R = 1.0000$$

$$DL = 2.025$$

$$BEC = 31.63$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1234.50     | 0.0029   | P   | 5.8 |
| 2 | <input type="checkbox"/> | 500.000   | 513.637    | 175883.79   | 0.3995   | P   | 0.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 4912.990   | 1647437.09  | 3.7972   | A   | 1.3 |
| 4 | <input type="checkbox"/> | 12500.000 | 12499.559  | 4094041.54  | 9.6563   | A   | 2.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 25133.322  | 7941846.76  | 19.4133  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 50715.990  | 15705914.35 | 39.1708  | A   | 0.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 98811.638  | 30438882.32 | 76.3151  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 500160.27  | 152157938.8 | 386.2766 | A   | 1.0 |

$$y = 7.7230\text{E-}004 * x + 0.0029$$

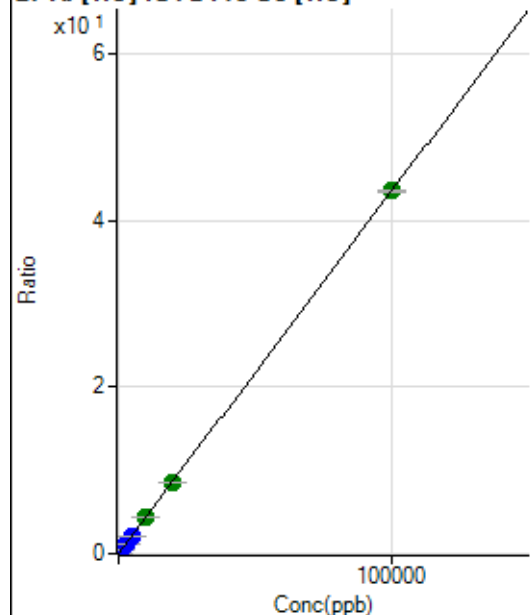
$$R = 1.0000$$

$$DL = 0.6465$$

$$BEC = 3.691$$

Weight: &lt;None&gt;

Min Conc: 0

**27 Al [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 56.66       | 0.0001  | P   | 40.0 |
| 2 | <input type="checkbox"/> | 20.000    | 19.890     | 3869.42     | 0.0088  | P   | 2.7  |
| 3 | <input type="checkbox"/> | 1000.000  | 978.583    | 184915.77   | 0.4262  | P   | 0.3  |
| 4 | <input type="checkbox"/> | 2500.000  | 2468.669   | 455710.46   | 1.0750  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 5000.000  | 4926.664   | 877600.79   | 2.1452  | P   | 0.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 10100.828  | 1763439.09  | 4.3980  | A   | 0.7  |
| 7 | <input type="checkbox"/> | 20000.000 | 19521.416  | 3390314.53  | 8.4998  | A   | 0.4  |
| 8 | <input type="checkbox"/> | 100000.00 | 100090.29  | 17166855.02 | 43.5795 | A   | 0.3  |

$$y = 4.3540\text{E-}004 * x + 1.3064\text{E-}004$$

$$R = 1.0000$$

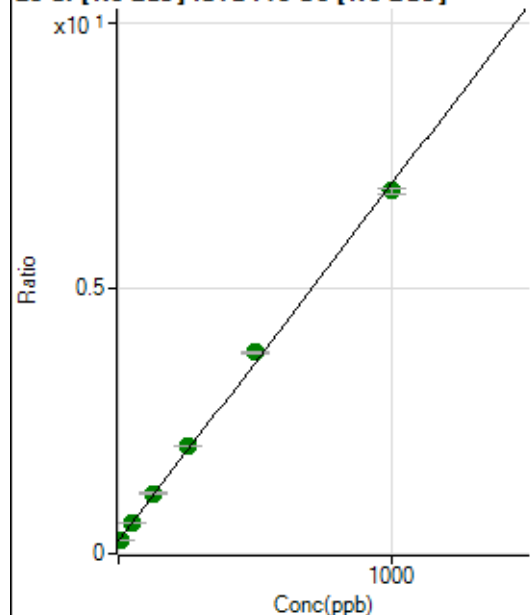
$$DL = 0.3604$$

$$BEC = 0.3$$

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      | 1315945.54  | 0.2417 | A    | 0.4 |
| 2 | <input type="checkbox"/> | 10.000   | 0.346      | 1349335.34  | 0.2441 | A    | 2.2 |
| 3 | <input type="checkbox"/> | 50.000   | 51.991     | 3263064.71  | 0.5918 | A    | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 132.993    | 6124049.63  | 1.1371 | A    | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 266.568    | 10470623.87 | 2.0364 | A    | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 528.210    | 19045179.44 | 3.7978 | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 980.751    | 34540394.49 | 6.8445 | A    | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 841351.18   | 0.1740 | P    | 0.7 |

$$y = 0.0067 * x + 0.2417$$

$$R = 0.9991$$

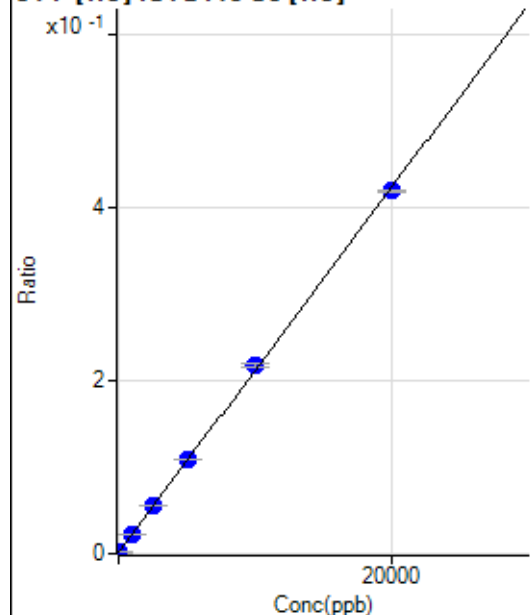
$$DL = 0.4632$$

$$BEC = 35.91$$

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     | -17.362    | 336.67    | 0.0008 | P    | 5.9  |
| 2 | <input type="checkbox"/> | 0.000     | 17.362     | 664.46    | 0.0015 | P    | 5.7  |
| 3 | <input type="checkbox"/> | 1000.000  | 1023.892   | 9857.69   | 0.0227 | P    | 0.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2610.874   | 23808.58  | 0.0562 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 5000.000  | 5133.640   | 44727.31  | 0.1093 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 10000.000 | 10262.418  | 87174.07  | 0.2174 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 20000.000 | 19820.327  | 167062.56 | 0.4188 | P    | 0.2  |
| 8 | <input type="checkbox"/> |           |            | 337.79    | 0.0009 | P    | 10.6 |

$$y = 2.1074E-005 * x + 0.0011$$

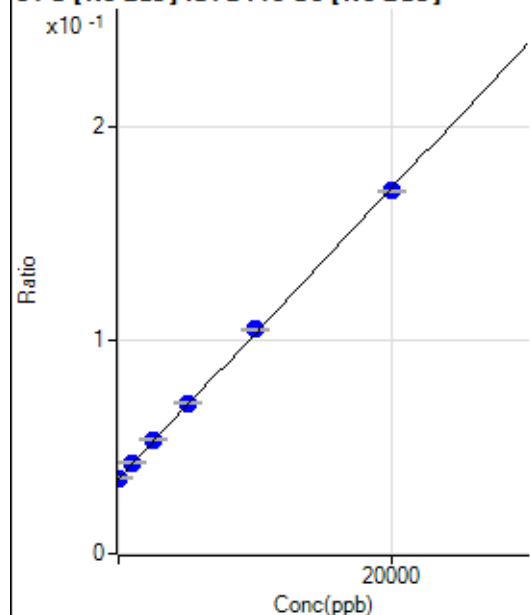
$$R = 0.9998$$

$$DL = 9.362$$

$$BEC = 54.25$$

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     | -26.662    | 191355.36 | 0.0352 | P        | 1.2 |
| 2 | <input type="checkbox"/> | 0.000     | 26.662     | 196354.21 | 0.0355 | P        | 1.9 |
| 3 | <input type="checkbox"/> | 1000.000  | 1081.620   | 235465.30 | 0.0427 | P        | 0.8 |
| 4 | <input type="checkbox"/> | 2500.000  | 2665.442   | 288088.13 | 0.0535 | P        | 1.4 |
| 5 | <input type="checkbox"/> | 5000.000  | 5164.474   | 362580.53 | 0.0705 | P        | 1.0 |
| 6 | <input type="checkbox"/> | 10000.000 | 10257.300  | 527580.47 | 0.1052 | P        | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 19805.470  | 859204.80 | 0.1703 | P        | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 154806.34 | 0.0320 | P        | 3.1 |

$$y = 6.8124\text{E-}006 * x + 0.0353$$

R = 0.9998

DL = 239.8

BEC = 5187

Weight: <None>

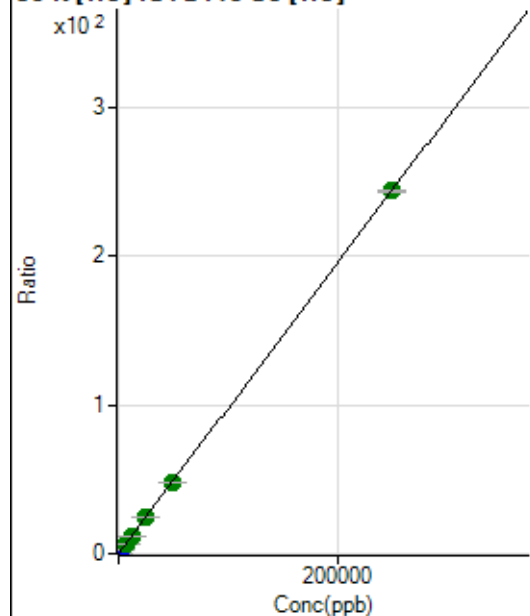
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |          |     |
| 2 | <input type="checkbox"/> |       |            |     |       |          |     |
| 3 | <input type="checkbox"/> |       |            |     |       |          |     |
| 4 | <input type="checkbox"/> |       |            |     |       |          |     |
| 5 | <input type="checkbox"/> |       |            |     |       |          |     |
| 6 | <input type="checkbox"/> |       |            |     |       |          |     |
| 7 | <input type="checkbox"/> |       |            |     |       |          |     |
| 8 | <input type="checkbox"/> |       |            |     |       |          |     |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            |     |       |          |     |
| 2 | <input type="checkbox"/> |       |            |     |       |          |     |
| 3 | <input type="checkbox"/> |       |            |     |       |          |     |
| 4 | <input type="checkbox"/> |       |            |     |       |          |     |
| 5 | <input type="checkbox"/> |       |            |     |       |          |     |
| 6 | <input type="checkbox"/> |       |            |     |       |          |     |
| 7 | <input type="checkbox"/> |       |            |     |       |          |     |
| 8 | <input type="checkbox"/> |       |            |     |       |          |     |

**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      | 45939.12    | 0.1061   | P        | 1.3 |
| 2 | <input type="checkbox"/> | 500.000   | 548.509    | 281765.87   | 0.6401   | P        | 0.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2607.784   | 1147424.93  | 2.6447   | P        | 0.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6282.030   | 2637376.71  | 6.2214   | A        | 1.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 12379.446  | 4973468.95  | 12.1571  | A        | 1.1 |
| 6 | <input type="checkbox"/> | 25000.000 | 25114.590  | 9845386.52  | 24.5543  | A        | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 49204.238  | 19148809.71 | 48.0048  | A        | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 250151.74  | 95965829.68 | 243.6203 | A        | 0.9 |

$$y = 9.7347\text{E-}004 * x + 0.1061$$

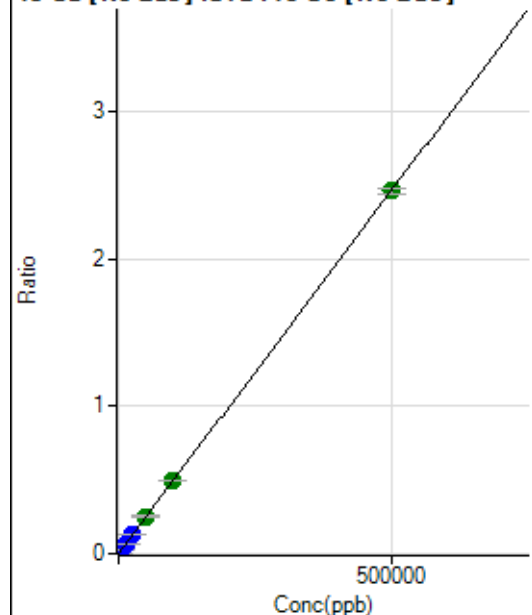
$$R = 1.0000$$

$$DL = 4.297$$

$$BEC = 109$$

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      | 454.46      | 0.0001 | P    | 9.0 |
| 2 | <input type="checkbox"/> | 500.000   | 547.549    | 15358.95    | 0.0028 | P    | 2.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5262.428   | 143242.94   | 0.0260 | P    | 1.5 |
| 4 | <input type="checkbox"/> | 12500.000 | 13227.193  | 350969.90   | 0.0652 | P    | 1.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 26762.460  | 677554.36   | 0.1318 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 51592.271  | 1273232.40  | 0.2540 | A    | 3.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 100890.42  | 2505792.50  | 0.4965 | A    | 0.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 499553.71  | 11883784.41 | 2.4582 | A    | 1.6 |

$$y = 4.9207\text{E-}006 * x + 8.3458\text{E-}005$$

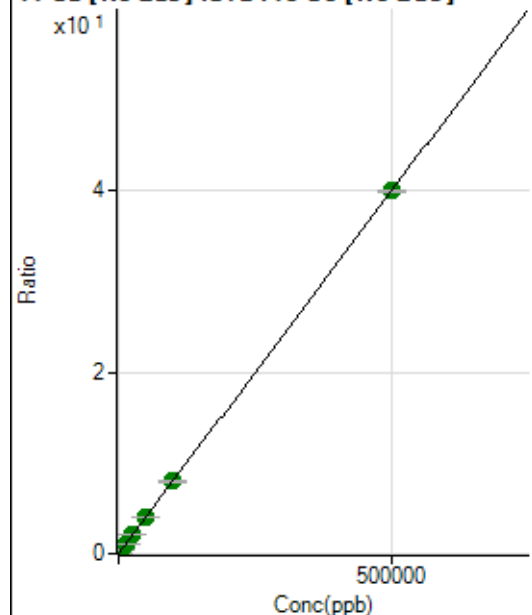
$$R = 1.0000$$

$$DL = 4.598$$

$$BEC = 16.96$$

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      | 7150.31     | 0.0013  | P    | 1.5 |
| 2 | <input type="checkbox"/> | 500.000   | 555.545    | 252834.71   | 0.0457  | P    | 1.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 4993.756   | 2208703.42  | 0.4006  | A    | 1.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 12500.037  | 5389917.67  | 1.0007  | A    | 0.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 25401.067  | 10448785.65 | 2.0321  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 50714.133  | 20336772.73 | 4.0559  | A    | 1.9 |
| 7 | <input type="checkbox"/> | 100000.00 | 99473.387  | 40141301.35 | 7.9542  | A    | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 500013.86  | 193277244.5 | 39.9774 | A    | 0.6 |

$$y = 7.9950\text{E-}005 * x + 0.0013$$

$$R = 1.0000$$

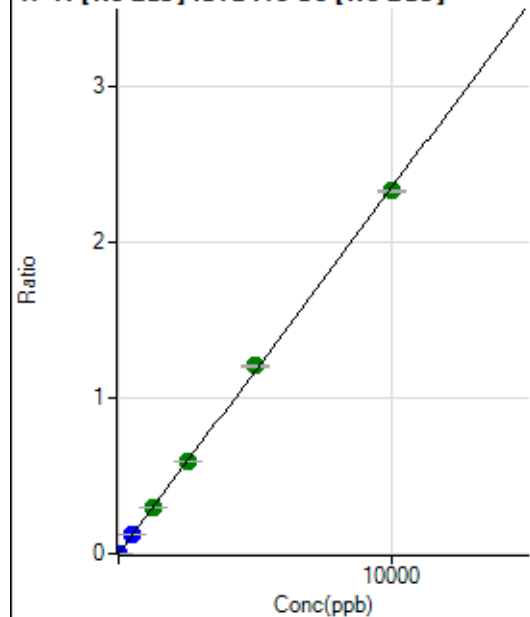
$$DL = 0.7457$$

$$BEC = 16.43$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 103.33      | 0.0000 | P   | 8.1  |
| 2 | <input type="checkbox"/> | 5.000     | 5.330      | 7026.14     | 0.0013 | P   | 2.0  |
| 3 | <input type="checkbox"/> | 500.000   | 504.020    | 652835.25   | 0.1184 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1264.483   | 1599654.32  | 0.2970 | A   | 0.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2526.061   | 3050634.82  | 0.5933 | A   | 0.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5144.480   | 6058822.20  | 1.2083 | A   | 1.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9919.233   | 11756828.16 | 2.3297 | A   | 0.3  |
| 8 | <input type="checkbox"/> |           |            | 2683.61     | 0.0006 | P   | 20.1 |

$$y = 2.3486\text{E-}004 * x + 1.8977\text{E-}005$$

$$R = 0.9998$$

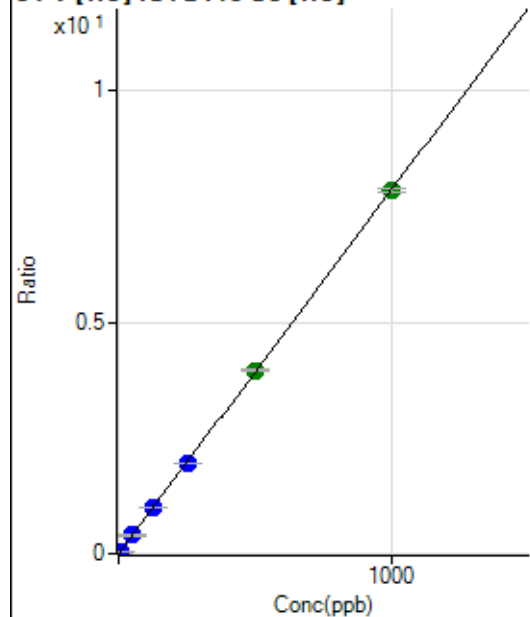
$$DL = 0.01963$$

$$BEC = 0.0808$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89       | 0.0000 | P   | 21.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.212      | 18036.45   | 0.0410 | P   | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.400     | 171802.05  | 0.3960 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.093    | 419971.43  | 0.9907 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 250.495    | 805114.83  | 1.9680 | P   | 0.0  |
| 6 | <input type="checkbox"/> | 500.000  | 504.764    | 1590102.06 | 3.9657 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.337    | 3125442.49 | 7.8356 | A   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 974.49     | 0.0025 | P   | 9.3  |

$$y = 0.0079 * x + 2.0526\text{E-}005$$

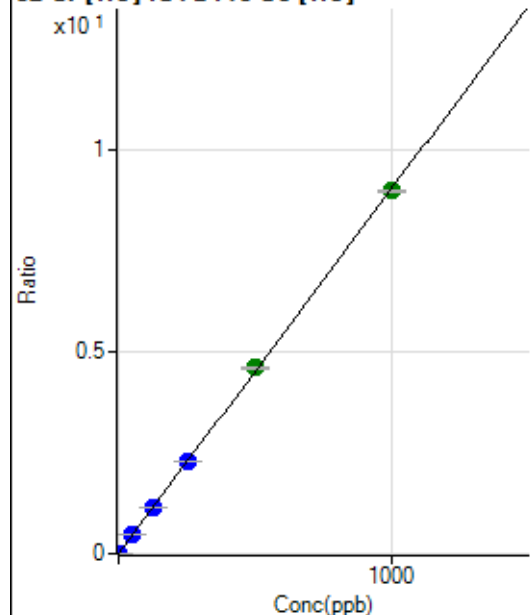
$$R = 1.0000$$

$$DL = 0.001683$$

$$BEC = 0.002613$$

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      | 975.60     | 0.0023 | P        | 4.3 |
| 2 | <input type="checkbox"/> | 2.000    | 2.088      | 9281.84    | 0.0211 | P        | 4.1 |
| 3 | <input type="checkbox"/> | 50.000   | 51.167     | 201193.35  | 0.4637 | P        | 0.3 |
| 4 | <input type="checkbox"/> | 125.000  | 127.469    | 488311.79  | 1.1519 | P        | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 253.433    | 935999.61  | 2.2880 | P        | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 508.779    | 1840815.21 | 4.5909 | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.385    | 3578220.96 | 8.9706 | A        | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 5655.56    | 0.0144 | P        | 3.6 |

$$y = 0.0090 * x + 0.0023$$

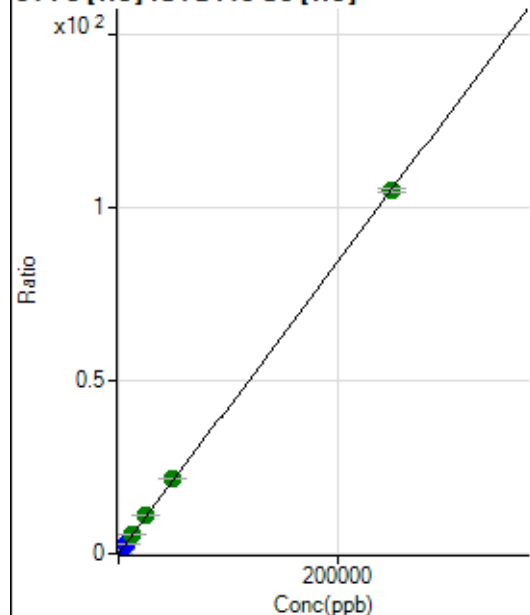
$$R = 0.9999$$

$$DL = 0.03225$$

$$BEC = 0.2498$$

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      | 2090.17     | 0.0048   | P        | 1.4 |
| 2 | <input type="checkbox"/> | 50.000    | 59.289     | 13083.55    | 0.0297   | P        | 0.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2742.377   | 501663.42   | 1.1563   | P        | 0.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6875.295   | 1225820.66  | 2.8915   | P        | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13265.142  | 2280509.79  | 5.5744   | A        | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 26427.902  | 4451136.11  | 11.1010  | A        | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 51920.760  | 8697277.09  | 21.8046  | A        | 0.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249416.74  | 41252736.60 | 104.7264 | A        | 1.0 |

$$y = 4.1987E-004 * x + 0.0048$$

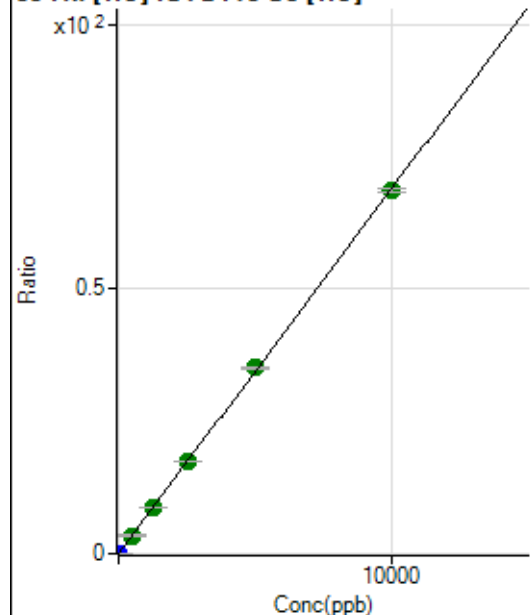
$$R = 1.0000$$

$$DL = 0.4991$$

$$BEC = 11.5$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 197.78      | 0.0005  | P        | 18.9 |
| 2 | <input type="checkbox"/> | 1.000     | 1.077      | 3470.43     | 0.0079  | P        | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 498.484    | 1491258.96  | 3.4372  | A        | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1246.892   | 3644487.79  | 8.5971  | A        | 0.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2524.761   | 7121369.89  | 17.4073 | A        | 0.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5096.986   | 14090435.76 | 35.1415 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9945.781   | 27349770.98 | 68.5713 | A        | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 15283.40    | 0.0388  | P        | 2.7  |

$$y = 0.0069 * x + 4.5648E-004$$

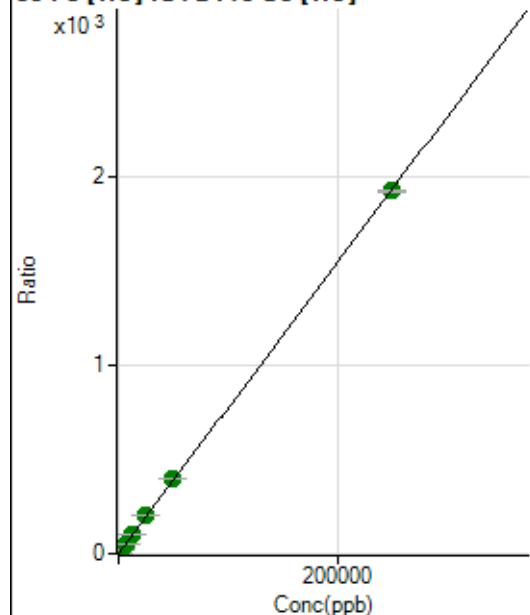
$$R = 0.9999$$

$$DL = 0.03748$$

$$BEC = 0.06621$$

Weight: &lt;None&gt;

Min Conc: 0

**56 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      | 14659.44    | 0.0339    | P        | 1.7 |
| 2 | <input type="checkbox"/> | 50.000    | 58.186     | 212937.23   | 0.4837    | P        | 0.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2628.904   | 8832997.23  | 20.3587   | A        | 0.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6554.820   | 21498262.74 | 50.7111   | A        | 0.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 13126.171  | 41529541.60 | 101.5161  | A        | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 26414.163  | 81896654.89 | 204.2494  | A        | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 51264.500  | 158100135.4 | 396.3746  | A        | 0.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 249565.46  | 760062468.6 | 1,929.497 | A        | 0.7 |

$$y = 0.0077 * x + 0.0339$$

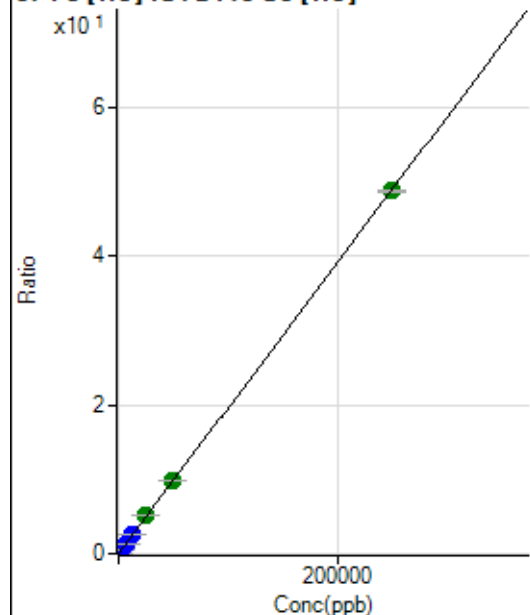
$$R = 1.0000$$

$$DL = 0.2247$$

$$BEC = 4.379$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1071.16     | 0.0025  | P   | 6.4 |
| 2 | <input type="checkbox"/> | 50.000    | 60.518     | 6282.49     | 0.0143  | P   | 3.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2689.712   | 228609.93   | 0.5269  | P   | 0.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6743.288   | 558434.81   | 1.3173  | P   | 0.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 13377.595  | 1068089.61  | 2.6108  | P   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26211.498  | 2050176.20  | 5.1132  | A   | 1.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 50602.308  | 3936529.08  | 9.8689  | A   | 0.5 |
| 8 | <input type="checkbox"/> | 250000.00 | 249700.27  | 19179163.74 | 48.6889 | A   | 0.6 |

$$y = 1.9498\text{E-}004 * x + 0.0025$$

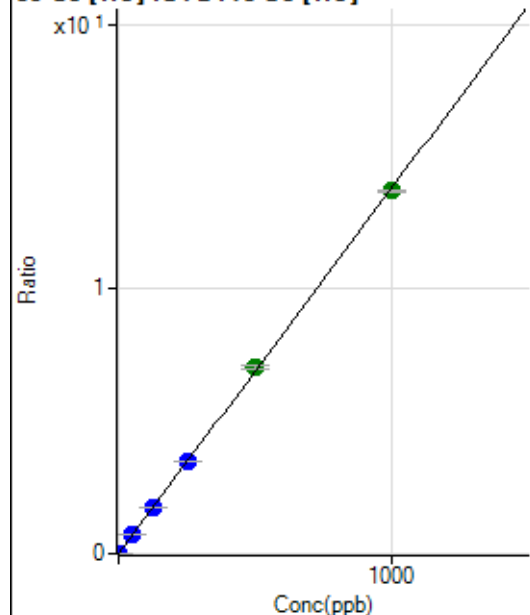
$$R = 1.0000$$

$$DL = 2.429$$

$$BEC = 12.69$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 77.78      | 0.0002  | P   | 8.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.085      | 6678.22    | 0.0152  | P   | 4.9 |
| 3 | <input type="checkbox"/> | 50.000   | 51.405     | 308096.33  | 0.7101  | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 128.001    | 749484.27  | 1.7680  | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 251.984    | 1423767.32 | 3.4803  | P   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 511.860    | 2834491.10 | 7.0694  | A   | 1.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.129    | 5471005.54 | 13.7161 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 14221.28   | 0.0361  | P   | 1.2 |

$$y = 0.0138 * x + 1.7962\text{E-}004$$

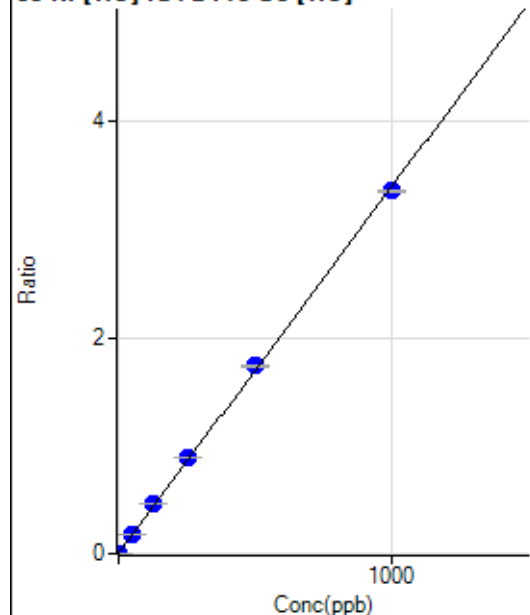
$$R = 0.9999$$

$$DL = 0.003486$$

$$BEC = 0.01301$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1251.17    | 0.0029 | P   | 7.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.075      | 2875.86    | 0.0065 | P   | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 53.085     | 79348.25   | 0.1829 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 134.127    | 194018.36  | 0.4577 | P   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 260.928    | 363137.54  | 0.8876 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 512.935    | 698547.02  | 1.7422 | P   | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.505    | 1339471.94 | 3.3581 | P   | 0.2 |
| 8 | <input type="checkbox"/> |          |            | 4670.76    | 0.0119 | P   | 0.5 |

$$y = 0.0034 * x + 0.0029$$

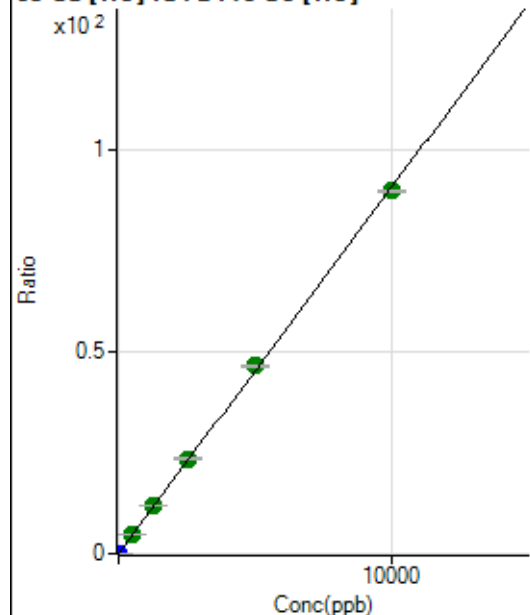
$$R = 0.9998$$

$$DL = 0.2018$$

$$BEC = 0.8519$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1212.29     | 0.0028  | P   | 2.5 |
| 2 | <input type="checkbox"/> | 2.000     | 2.186      | 9971.19     | 0.0227  | P   | 0.8 |
| 3 | <input type="checkbox"/> | 500.000   | 526.269    | 2074850.07  | 4.7823  | A   | 0.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1321.722   | 5089771.03  | 12.0064 | A   | 1.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2591.623   | 9630070.41  | 23.5393 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 5119.872   | 18644730.97 | 46.5004 | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9906.880   | 35888321.97 | 89.9749 | A   | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 7355.21     | 0.0187  | P   | 2.5 |

$$y = 0.0091 * x + 0.0028$$

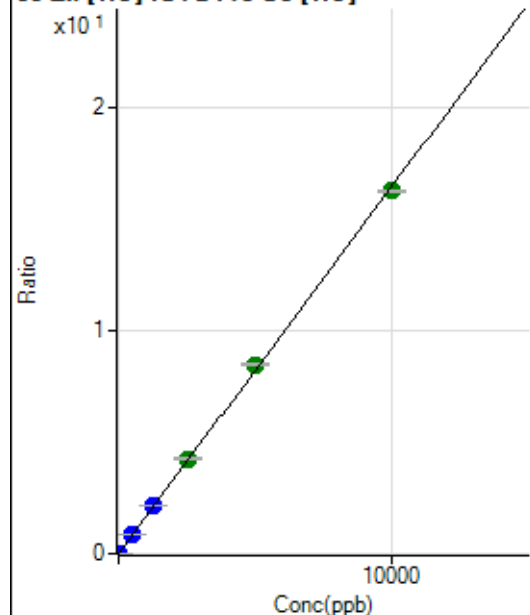
$$R = 0.9998$$

$$DL = 0.02291$$

$$BEC = 0.3083$$

Weight: &lt;None&gt;

Min Conc: 0

**66 Zn [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 234.45     | 0.0005  | P    | 9.0 |
| 2 | <input type="checkbox"/> | 5.000     | 5.388      | 4143.94    | 0.0094  | P    | 5.6 |
| 3 | <input type="checkbox"/> | 500.000   | 519.545    | 371485.36  | 0.8562  | P    | 0.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1295.642   | 904826.76  | 2.1345  | P    | 1.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2592.818   | 1747244.47 | 4.2709  | A    | 1.1 |
| 6 | <input type="checkbox"/> | 5000.000  | 5153.938   | 3403788.35 | 8.4891  | A    | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9893.144   | 6499292.61 | 16.2946 | A    | 0.7 |
| 8 | <input type="checkbox"/> |           |            | 2476.90    | 0.0063  | P    | 7.7 |

$$y = 0.0016 * x + 5.4154E-004$$

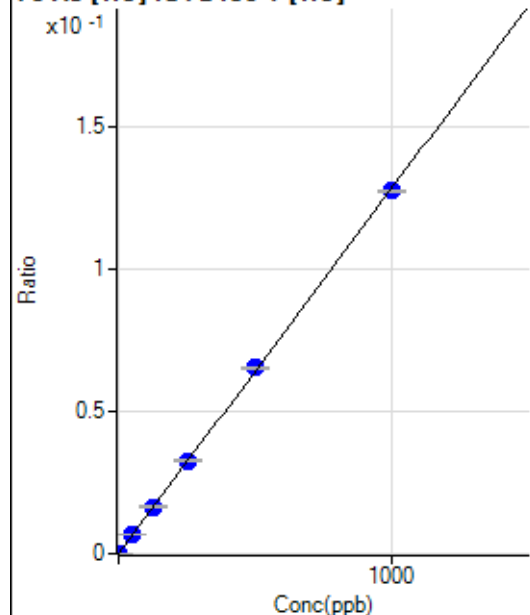
$$R = 0.9998$$

$$DL = 0.08879$$

$$BEC = 0.3288$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 21.11     | 0.0000 | P    | 52.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.165      | 632.24    | 0.0002 | P    | 12.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.702     | 26079.62  | 0.0065 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 128.479    | 63680.20  | 0.0164 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 253.998    | 122128.42 | 0.0325 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 509.447    | 241059.28 | 0.0652 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.807    | 469215.80 | 0.1272 | P    | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 291.12    | 0.0001 | P    | 15.9 |

$$y = 1.2799E-004 * x + 5.3020E-006$$

$$R = 0.9999$$

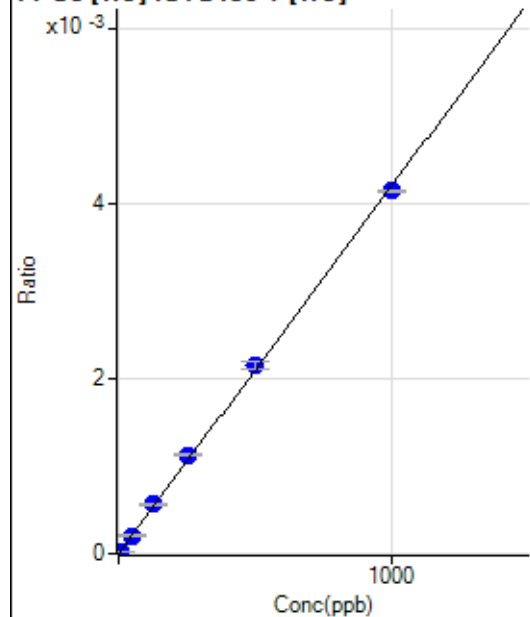
$$DL = 0.0657$$

$$BEC = 0.04142$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00     | 0.0000 | P        |      |
| 2 | <input type="checkbox"/> | 5.000    | 4.645      | 80.00    | 0.0000 | P        | 38.8 |
| 3 | <input type="checkbox"/> | 50.000   | 48.111     | 810.03   | 0.0002 | P        | 7.9  |
| 4 | <input type="checkbox"/> | 125.000  | 134.269    | 2181.29  | 0.0006 | P        | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 268.095    | 4225.09  | 0.0011 | P        | 2.6  |
| 6 | <input type="checkbox"/> | 500.000  | 514.567    | 7981.10  | 0.0022 | P        | 3.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.130    | 15280.19 | 0.0041 | P        | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 5.56     | 0.0000 | P        | 34.7 |

$$y = 4.1965\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

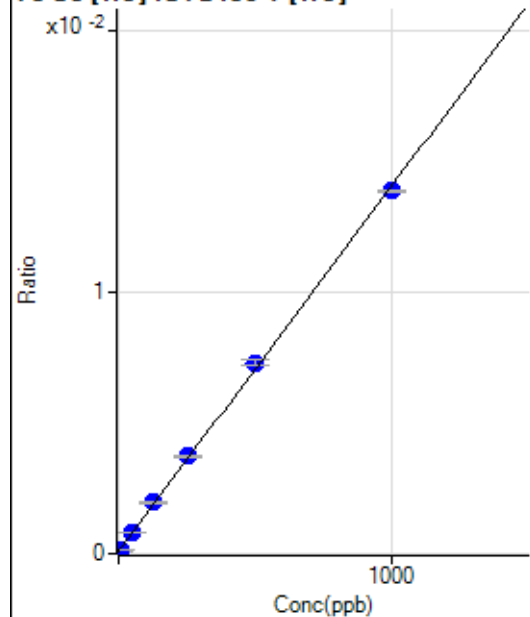
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 357.79   | 0.0001 | P        | 14.8 |
| 2 | <input type="checkbox"/> | 5.000    | 6.134      | 716.69   | 0.0002 | P        | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 52.009     | 3275.95  | 0.0008 | P        | 6.7  |
| 4 | <input type="checkbox"/> | 125.000  | 133.342    | 7560.88  | 0.0020 | P        | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 260.610    | 14021.18 | 0.0037 | P        | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 517.424    | 27063.66 | 0.0073 | P        | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.487    | 51245.00 | 0.0139 | P        | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 340.01   | 0.0001 | P        | 18.5 |

$$y = 1.3978\text{E-}005 * x + 8.9255\text{E-}005$$

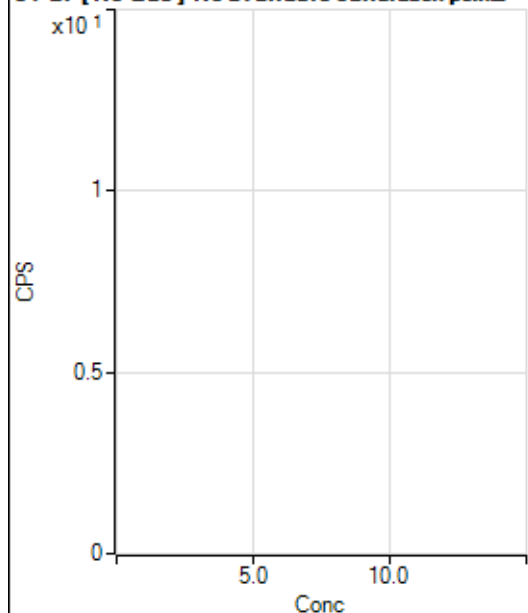
$$R = 0.9997$$

$$DL = 2.832$$

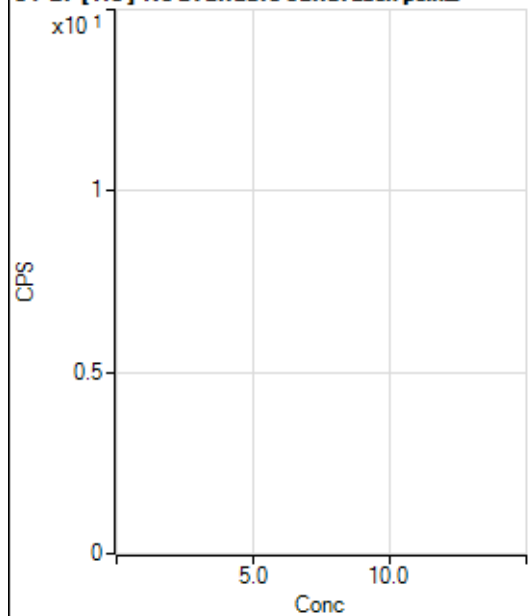
$$BEC = 6.385$$

Weight: &lt;None&gt;

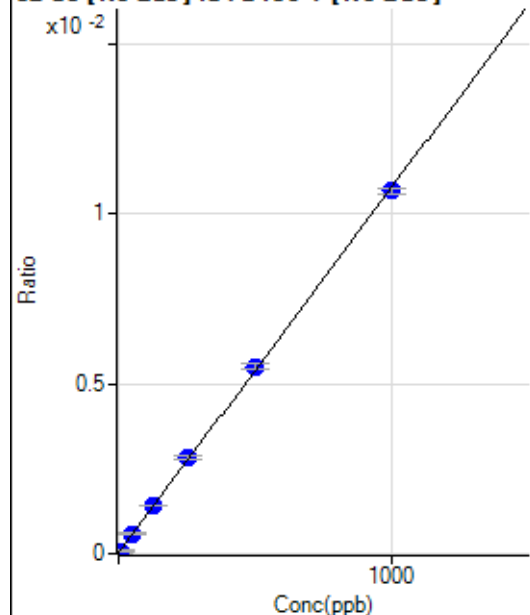
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 16508.20 |       | P        | 1.9 |
| 2 | <input type="checkbox"/> |       |            | 17115.57 |       | P        | 2.1 |
| 3 | <input type="checkbox"/> |       |            | 17036.59 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> |       |            | 16373.61 |       | P        | 1.6 |
| 5 | <input type="checkbox"/> |       |            | 15611.68 |       | P        | 2.5 |
| 6 | <input type="checkbox"/> |       |            | 14697.41 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> |       |            | 14290.36 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> |       |            | 14393.79 |       | P        | 1.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 125.56 |       | P        | 5.5  |
| 2 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 6.7  |
| 3 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 5.0  |
| 4 | <input type="checkbox"/> |       |            | 82.22  |       | P        | 27.6 |
| 5 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 30.0 |
| 6 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 11.8 |
| 7 | <input type="checkbox"/> |       |            | 83.33  |       | P        | 4.0  |
| 8 | <input type="checkbox"/> |       |            | 102.22 |       | P        | 6.8  |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 352.60    | 0.0000 | P    | 9.4 |
| 2 | <input type="checkbox"/> | 5.000    | 5.356      | 1177.72   | 0.0001 | P    | 7.6 |
| 3 | <input type="checkbox"/> | 50.000   | 52.672     | 8428.37   | 0.0006 | P    | 1.7 |
| 4 | <input type="checkbox"/> | 125.000  | 129.196    | 19998.69  | 0.0014 | P    | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 260.895    | 38854.87  | 0.0028 | P    | 2.3 |
| 6 | <input type="checkbox"/> | 500.000  | 511.026    | 74748.78  | 0.0055 | P    | 2.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 991.103    | 145070.76 | 0.0107 | P    | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 521.33    | 0.0000 | P    | 5.9 |

$$y = 1.0733E-005 * x + 2.4719E-005$$

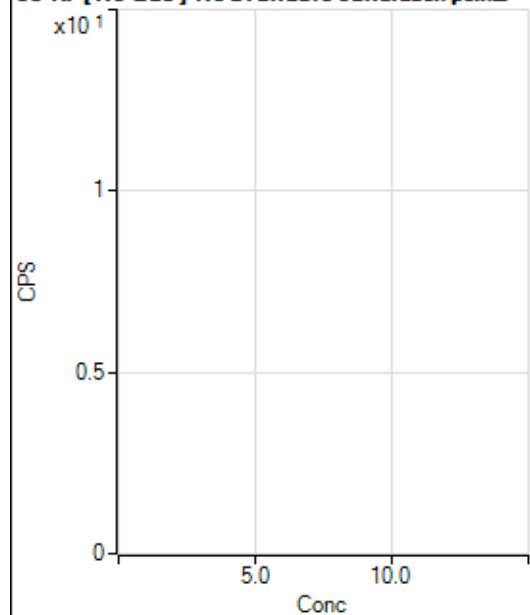
R = 0.9998

DL = 0.6523

BEC = 2.303

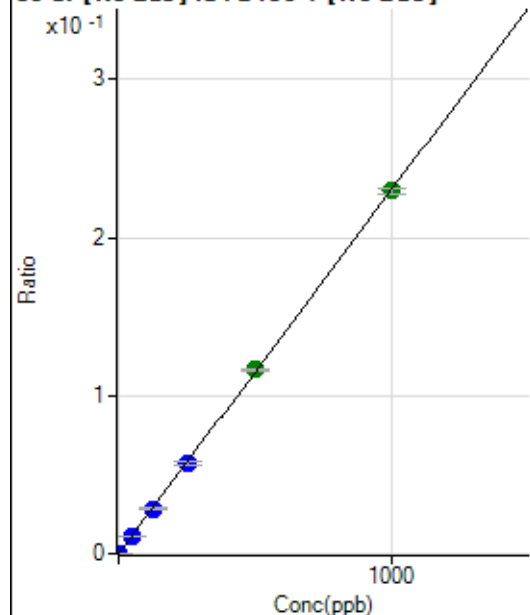
Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 228.89 |       | P    | 17.4 |
| 2 | <input type="checkbox"/> |       |            | 198.89 |       | P    | 14.0 |
| 3 | <input type="checkbox"/> |       |            | 206.67 |       | P    | 15.4 |
| 4 | <input type="checkbox"/> |       |            | 197.78 |       | P    | 7.0  |
| 5 | <input type="checkbox"/> |       |            | 174.45 |       | P    | 11.5 |
| 6 | <input type="checkbox"/> |       |            | 184.45 |       | P    | 16.3 |
| 7 | <input type="checkbox"/> |       |            | 191.12 |       | P    | 11.9 |
| 8 | <input type="checkbox"/> |       |            | 206.67 |       | P    | 9.0  |

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      | 374.45     | 0.0000 | P        | 4.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.986      | 3627.15    | 0.0003 | P        | 2.1 |
| 3 | <input type="checkbox"/> | 50.000   | 49.366     | 162579.60  | 0.0114 | P        | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 123.905    | 404201.45  | 0.0285 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 248.374    | 786122.04  | 0.0572 | P        | 2.7 |
| 6 | <input type="checkbox"/> | 500.000  | 506.577    | 1581490.03 | 0.1166 | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.287    | 3121497.52 | 0.2294 | A        | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 9840.03    | 0.0008 | P        | 3.0 |

$$y = 2.3002\text{E-}004 * x + 2.6280\text{E-}005$$

$$R = 1.0000$$

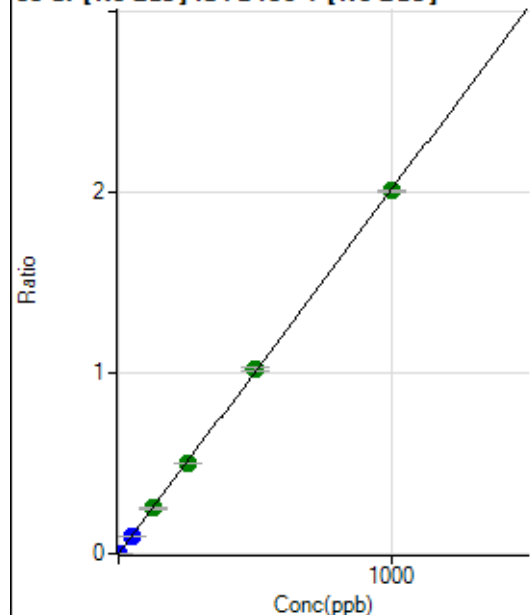
$$DL = 0.01621$$

$$BEC = 0.1142$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 94.44       | 0.0000 | P        | 9.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.005      | 29099.89    | 0.0020 | P        | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 49.429     | 1421161.21  | 0.0995 | P        | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 124.138    | 3540235.12  | 0.2499 | A        | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 249.314    | 6902923.65  | 0.5018 | A        | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 507.588    | 13860125.62 | 1.0216 | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.514    | 27290475.15 | 2.0057 | A        | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 84236.18    | 0.0066 | P        | 2.7 |

$$y = 0.0020 * x + 6.6214\text{E-}006$$

$$R = 1.0000$$

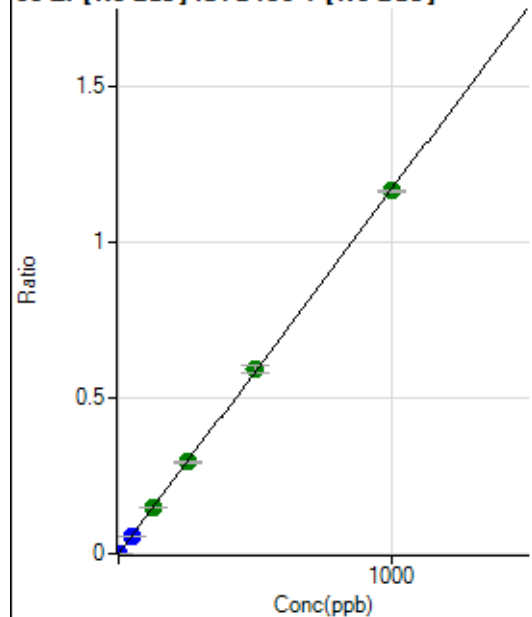
$$DL = 0.0009695$$

$$BEC = 0.00329$$

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      | 501.12      | 0.0000 | P    | 3.0  |
| 2 | <input type="checkbox"/> | 1.000    | 1.025      | 17711.87    | 0.0012 | P    | 2.2  |
| 3 | <input type="checkbox"/> | 50.000   | 49.554     | 829391.12   | 0.0581 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 126.351    | 2097002.80  | 0.1480 | A    | 0.6  |
| 5 | <input type="checkbox"/> | 250.000  | 252.123    | 4061757.71  | 0.2953 | A    | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 506.608    | 8047612.03  | 0.5933 | A    | 3.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.019    | 15871264.07 | 1.1664 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 11182.14    | 0.0009 | P    | 10.1 |

$$y = 0.0012 * x + 3.5151E-005$$

$$R = 1.0000$$

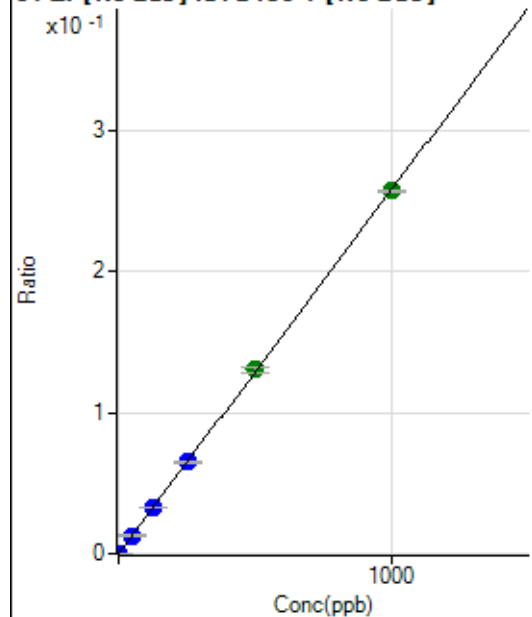
$$DL = 0.002733$$

$$BEC = 0.03002$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 91.11      | 0.0000 | P    | 19.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.015      | 3842.76    | 0.0003 | P    | 5.5  |
| 3 | <input type="checkbox"/> | 50.000   | 49.755     | 183377.33  | 0.0128 | P    | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 124.856    | 456343.05  | 0.0322 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 251.107    | 890802.48  | 0.0648 | P    | 2.4  |
| 6 | <input type="checkbox"/> | 500.000  | 505.534    | 1768752.32 | 0.1304 | A    | 2.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.987    | 3498597.69 | 0.2571 | A    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 2413.56    | 0.0002 | P    | 11.3 |

$$y = 2.5790E-004 * x + 6.4022E-006$$

$$R = 1.0000$$

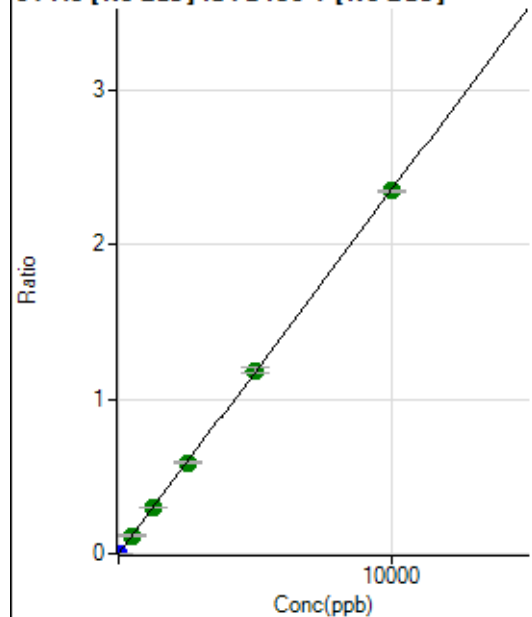
$$DL = 0.01455$$

$$BEC = 0.02482$$

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      | 248.89      | 0.0000 | P        | 18.5 |
| 2 | <input type="checkbox"/> | 5.000     | 6.065      | 20729.16    | 0.0014 | P        | 4.2  |
| 3 | <input type="checkbox"/> | 500.000   | 501.461    | 1687922.20  | 0.1182 | A        | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1256.510   | 4195131.88  | 0.2961 | A        | 0.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2510.463   | 8136169.88  | 0.5915 | A        | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5041.125   | 16112576.98 | 1.1877 | A        | 3.3  |
| 7 | <input type="checkbox"/> | 10000.000 | 9975.934   | 31981447.30 | 2.3504 | A        | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 11811.64    | 0.0009 | P        | 19.3 |

$$y = 2.3561E-004 * x + 1.7453E-005$$

$$R = 1.0000$$

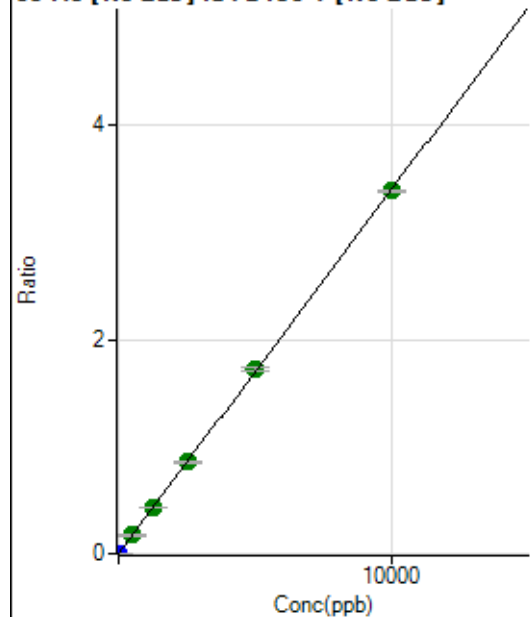
$$DL = 0.04114$$

$$BEC = 0.07408$$

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      | 142.22      | 0.0000 | P        | 9.6  |
| 2 | <input type="checkbox"/> | 5.000     | 5.196      | 25461.08    | 0.0018 | P        | 3.1  |
| 3 | <input type="checkbox"/> | 500.000   | 503.219    | 2443847.33  | 0.1711 | A        | 0.8  |
| 4 | <input type="checkbox"/> | 1250.000  | 1254.496   | 6043156.72  | 0.4265 | A        | 0.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2512.464   | 11748930.80 | 0.8541 | A        | 1.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 5065.415   | 23360579.10 | 1.7220 | A        | 2.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 9963.454   | 46087125.98 | 3.3871 | A        | 0.5  |
| 8 | <input type="checkbox"/> |           |            | 13389.71    | 0.0010 | P        | 19.4 |

$$y = 3.3995E-004 * x + 9.9683E-006$$

$$R = 1.0000$$

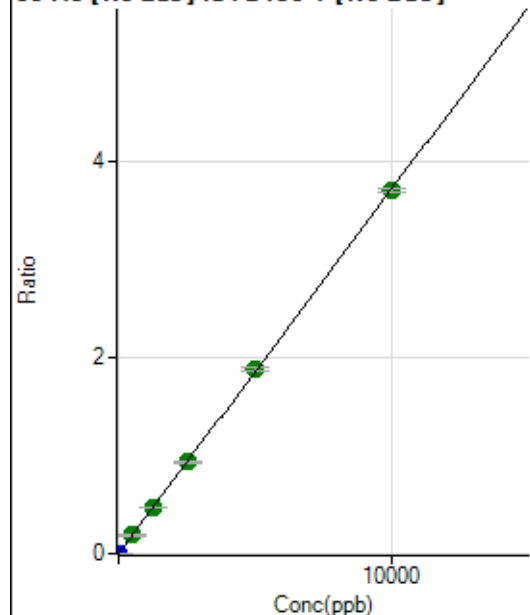
$$DL = 0.008465$$

$$BEC = 0.02932$$

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      | 193.34      | 0.0000 | P        | 13.1 |
| 2 | <input type="checkbox"/> | 5.000     | 5.231      | 28058.04    | 0.0020 | P        | 0.8  |
| 3 | <input type="checkbox"/> | 500.000   | 502.839    | 2668432.53  | 0.1868 | A        | 2.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1256.721   | 6615239.49  | 0.4669 | A        | 1.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2528.010   | 12918049.11 | 0.9392 | A        | 2.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 5068.452   | 25546306.56 | 1.8829 | A        | 2.3  |
| 7 | <input type="checkbox"/> | 10000.000 | 9957.789   | 50335100.91 | 3.6993 | A        | 1.1  |
| 8 | <input type="checkbox"/> |           |            | 22684.71    | 0.0018 | P        | 15.5 |

$$y = 3.7150\text{E-}004 * x + 1.3564\text{E-}005$$

$$R = 1.0000$$

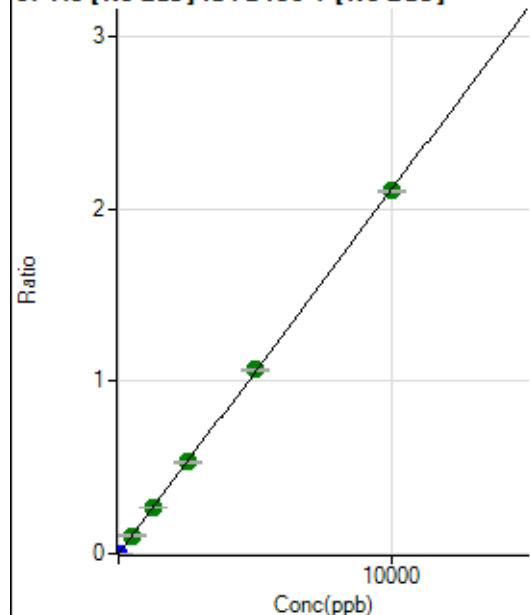
$$DL = 0.01436$$

$$BEC = 0.03651$$

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      | 104.45      | 0.0000 | P        | 13.0 |
| 2 | <input type="checkbox"/> | 5.000     | 5.225      | 15926.53    | 0.0011 | P        | 2.0  |
| 3 | <input type="checkbox"/> | 500.000   | 501.071    | 1511976.23  | 0.1058 | A        | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1256.387   | 3760032.89  | 0.2654 | A        | 1.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2529.598   | 7349441.21  | 0.5343 | A        | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5047.945   | 14466329.92 | 1.0662 | A        | 1.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9967.776   | 28646975.68 | 2.1054 | A        | 0.6  |
| 8 | <input type="checkbox"/> |           |            | 8195.80     | 0.0006 | P        | 22.1 |

$$y = 2.1122\text{E-}004 * x + 7.3273\text{E-}006$$

$$R = 1.0000$$

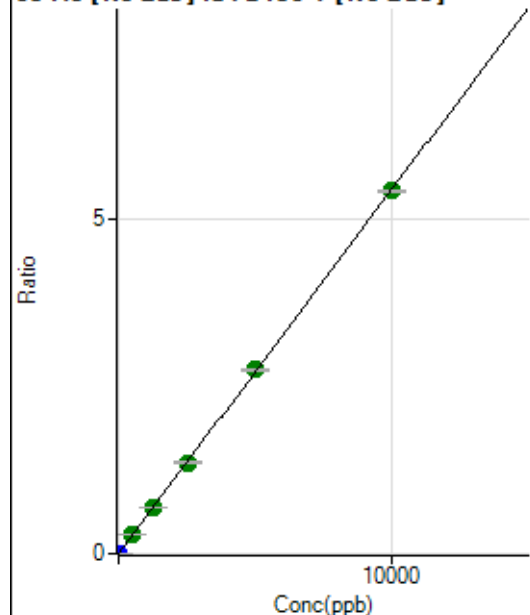
$$DL = 0.01348$$

$$BEC = 0.03469$$

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      | 218.89      | 0.0000 | P        | 11.7 |
| 2 | <input type="checkbox"/> | 5.000     | 5.165      | 40374.50    | 0.0028 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 500.000   | 503.196    | 3898791.12  | 0.2729 | A        | 0.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1247.943   | 9590159.16  | 0.6768 | A        | 0.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2509.177   | 18718632.50 | 1.3609 | A        | 1.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5053.638   | 37187310.28 | 2.7408 | A        | 1.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9970.984   | 73582537.24 | 5.4077 | A        | 0.4  |
| 8 | <input type="checkbox"/> |           |            | 19807.44    | 0.0015 | P        | 23.6 |

$$y = 5.4234\text{E-}004 * x + 1.5372\text{E-}005$$

$$R = 1.0000$$

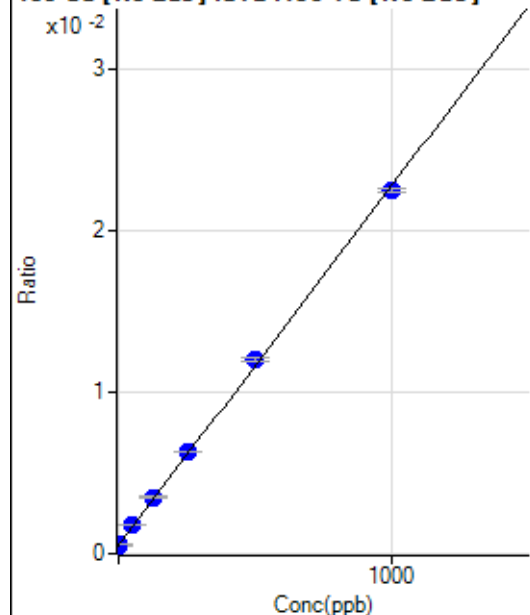
$$DL = 0.00992$$

$$BEC = 0.02834$$

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<br>. | RSD |
|---|--------------------------|----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5603.35   | 0.0005 | P        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 2.727      | 6245.84   | 0.0006 | P        | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 55.235     | 19218.34  | 0.0017 | P        | 1.6 |
| 4 | <input type="checkbox"/> | 125.000  | 134.275    | 38928.79  | 0.0035 | P        | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 261.002    | 69904.65  | 0.0063 | P        | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 519.633    | 132913.85 | 0.0121 | P        | 2.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 986.010    | 248255.23 | 0.0224 | P        | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 5074.27   | 0.0005 | P        | 2.0 |

$$y = 2.2220\text{E-}005 * x + 5.1839\text{E-}004$$

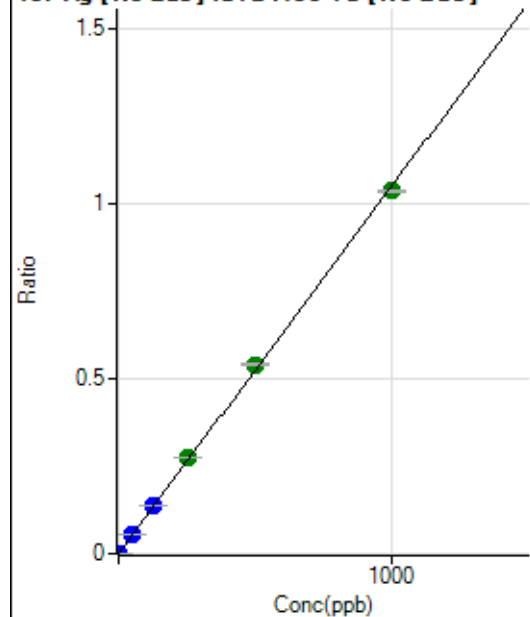
$$R = 0.9996$$

$$DL = 1.705$$

$$BEC = 23.33$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 87.78       | 0.0000 | P        | 7.9  |
| 2 | <input type="checkbox"/> | 1.000    | 1.099      | 12519.91    | 0.0012 | P        | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 53.928     | 622595.36   | 0.0566 | P        | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 131.808    | 1536285.92  | 0.1382 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 263.778    | 3060582.84  | 0.2766 | A        | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 515.148    | 5951274.84  | 0.5401 | A        | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.934    | 11466522.05 | 1.0359 | A        | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 2736.96     | 0.0003 | P        | 21.8 |

$$y = 0.0010 * x + 8.1161E-006$$

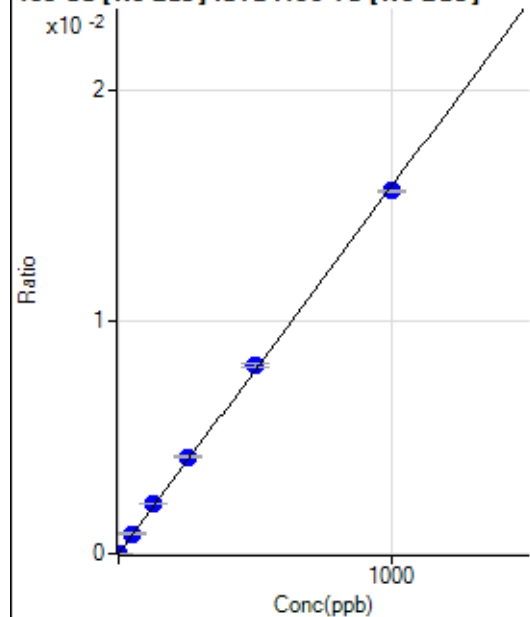
$$R = 0.9997$$

$$DL = 0.001843$$

$$BEC = 0.007741$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67     | 0.0000 | P        | 52.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.257      | 231.11    | 0.0000 | P        | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 54.267     | 9465.38   | 0.0009 | P        | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 134.768    | 23708.36  | 0.0021 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 263.363    | 46106.37  | 0.0042 | P        | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 514.041    | 89584.23  | 0.0081 | P        | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.204    | 173028.45 | 0.0156 | P        | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 118.89    | 0.0000 | P        | 20.0 |

$$y = 1.5816E-005 * x + 1.5418E-006$$

$$R = 0.9997$$

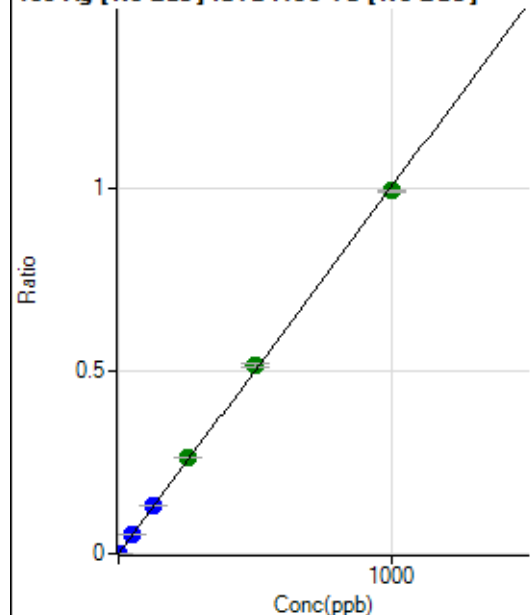
$$DL = 0.1543$$

$$BEC = 0.09748$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 55.56       | 0.0000 | P    | 41.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.091      | 11869.38    | 0.0011 | P    | 3.1  |
| 3 | <input type="checkbox"/> | 50.000   | 53.423     | 590587.49   | 0.0536 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 131.002    | 1462140.69  | 0.1315 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 263.115    | 2923554.44  | 0.2642 | A    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 513.877    | 5684663.46  | 0.5160 | A    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.861    | 10991367.89 | 0.9929 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 2495.81     | 0.0002 | P    | 21.4 |

$$y = 0.0010 * x + 5.1514E-006$$

$$R = 0.9998$$

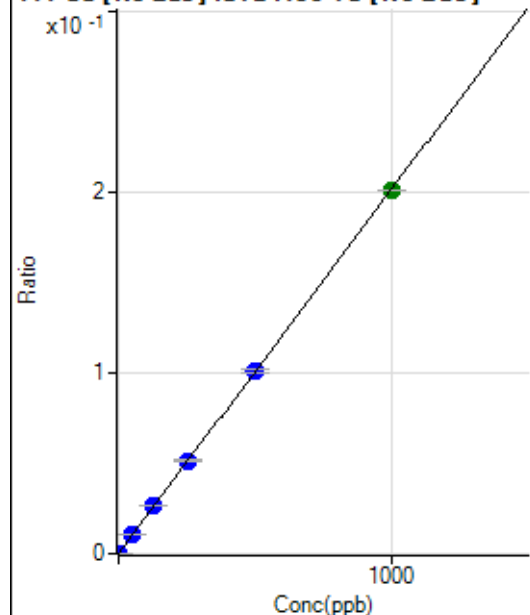
$$DL = 0.006306$$

$$BEC = 0.00513$$

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      | 1124.56    | 0.0001 | P    | 2.8  |
| 2 | <input type="checkbox"/> | 1.000    | 1.198      | 3730.99    | 0.0003 | P    | 3.5  |
| 3 | <input type="checkbox"/> | 50.000   | 53.217     | 119352.14  | 0.0108 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 131.258    | 295514.05  | 0.0266 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 255.519    | 571588.98  | 0.0517 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 503.698    | 1120745.22 | 0.1017 | P    | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.828    | 2225295.92 | 0.2010 | A    | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 1594.99    | 0.0002 | P    | 10.7 |

$$y = 2.0176E-004 * x + 1.0404E-004$$

$$R = 1.0000$$

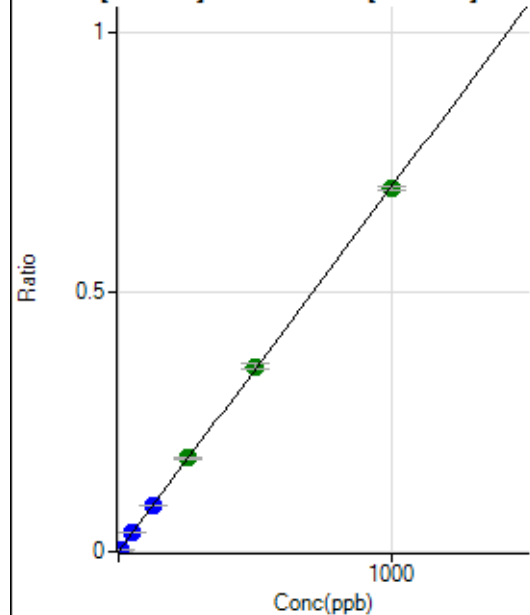
$$DL = 0.04299$$

$$BEC = 0.5157$$

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      | 3413.77    | 0.0003 | P    | 0.7  |
| 2 | <input type="checkbox"/> | 5.000    | 5.375      | 44208.80   | 0.0041 | P    | 1.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.255     | 400651.09  | 0.0364 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 126.451    | 992809.89  | 0.0893 | P    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 256.161    | 1998458.10 | 0.1806 | A    | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 508.213    | 3944226.89 | 0.3580 | A    | 2.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.107    | 7748996.13 | 0.7000 | A    | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 3477.12    | 0.0003 | P    | 12.0 |

$$y = 7.0386\text{E-}004 * x + 3.1577\text{E-}004$$

$$R = 0.9999$$

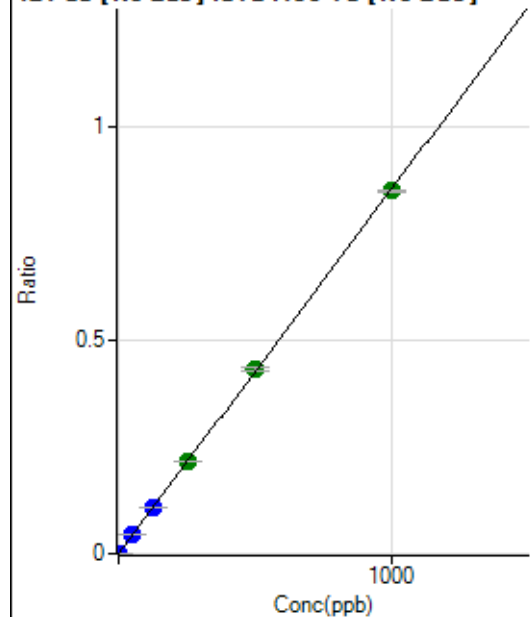
$$DL = 0.009178$$

$$BEC = 0.4486$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00      | 0.0000 | P    | 59.2 |
| 2 | <input type="checkbox"/> | 2.000    | 2.106      | 19456.62   | 0.0018 | P    | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.471     | 474760.41  | 0.0431 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 124.906    | 1186136.31 | 0.1067 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 252.963    | 2391463.21 | 0.2161 | A    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.980    | 4781171.70 | 0.4340 | A    | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.257    | 9412207.08 | 0.8503 | A    | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 4336.26    | 0.0004 | P    | 9.7  |

$$y = 8.5431\text{E-}004 * x + 4.6430\text{E-}006$$

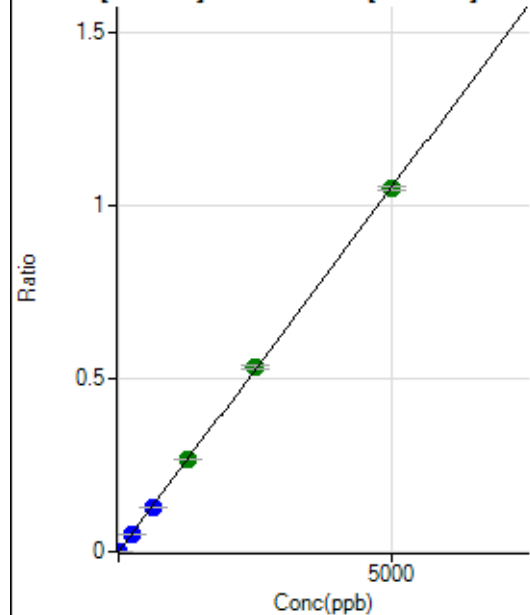
$$R = 0.9999$$

$$DL = 0.009658$$

$$BEC = 0.005435$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 17.78       | 0.0000 | P    | 28.0 |
| 2 | <input type="checkbox"/> | 10.000   | 10.586     | 24048.11    | 0.0022 | P    | 0.9  |
| 3 | <input type="checkbox"/> | 250.000  | 246.954    | 572212.25   | 0.0520 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 625.000  | 612.676    | 1433236.37  | 0.1289 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1264.305   | 2944241.28  | 0.2661 | A    | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2534.093   | 5875664.84  | 0.5333 | A    | 1.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4981.069   | 11604070.94 | 1.0483 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 5655.62     | 0.0005 | P    | 8.8  |

$$y = 2.1045\text{E-}004 * x + 1.6428\text{E-}006$$

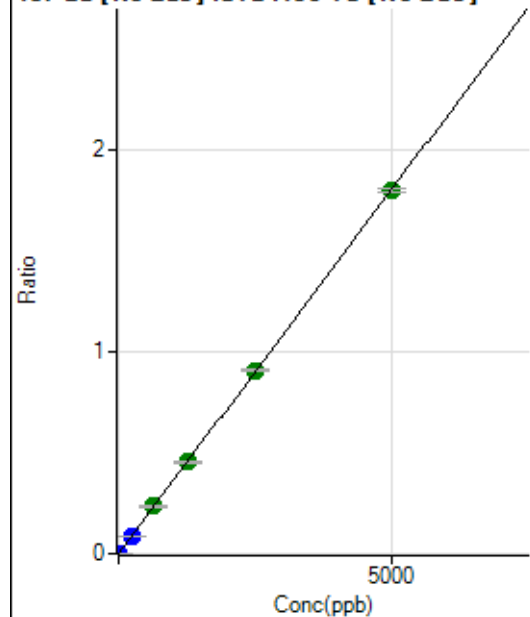
$$R = 1.0000$$

$$DL = 0.006547$$

$$BEC = 0.007806$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 46.67       | 0.0000 | P    | 18.1 |
| 2 | <input type="checkbox"/> | 10.000   | 10.495     | 40884.11    | 0.0038 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 250.000  | 247.750    | 984155.63   | 0.0894 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 647.594    | 2597058.97  | 0.2337 | A    | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1264.871   | 5049493.95  | 0.4564 | A    | 1.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2520.865   | 10020614.09 | 0.9095 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4983.137   | 19902543.59 | 1.7979 | A    | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 9754.55     | 0.0009 | P    | 7.1  |

$$y = 3.6080\text{E-}004 * x + 4.3119\text{E-}006$$

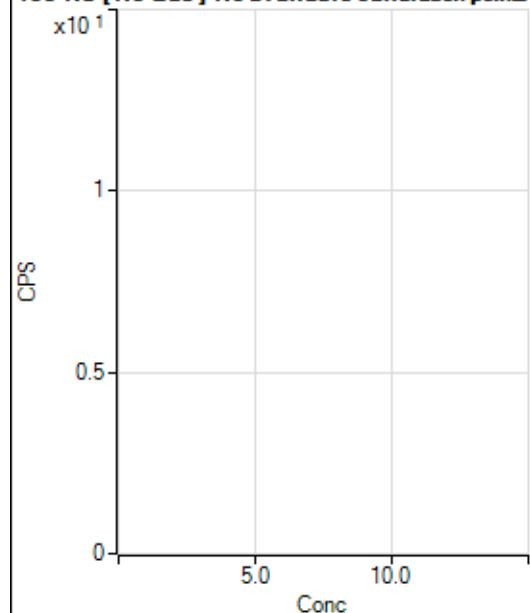
$$R = 1.0000$$

$$DL = 0.006488$$

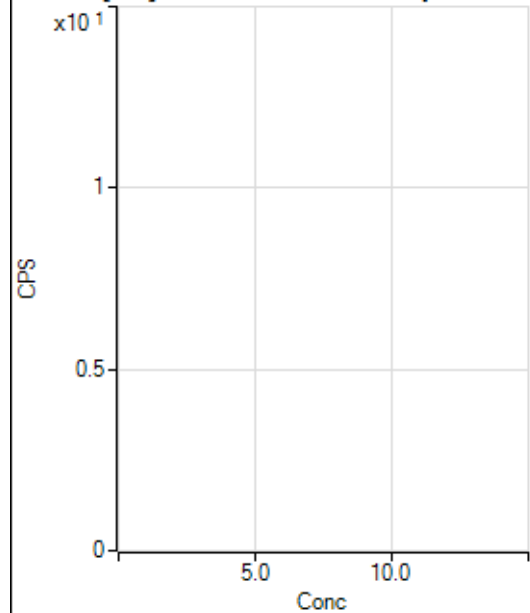
$$BEC = 0.01195$$

Weight: &lt;None&gt;

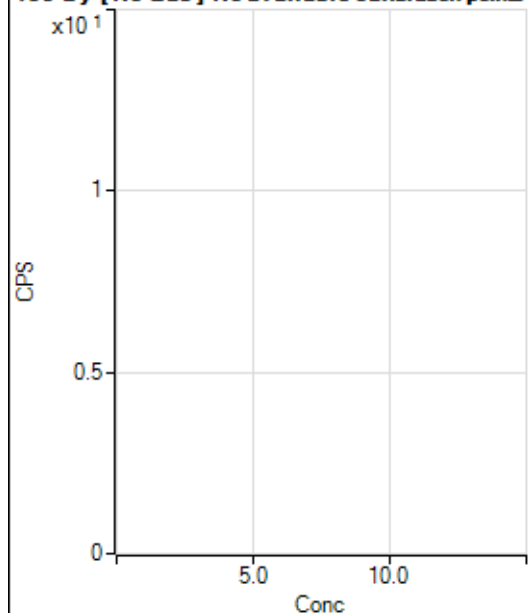
Min Conc: 0

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

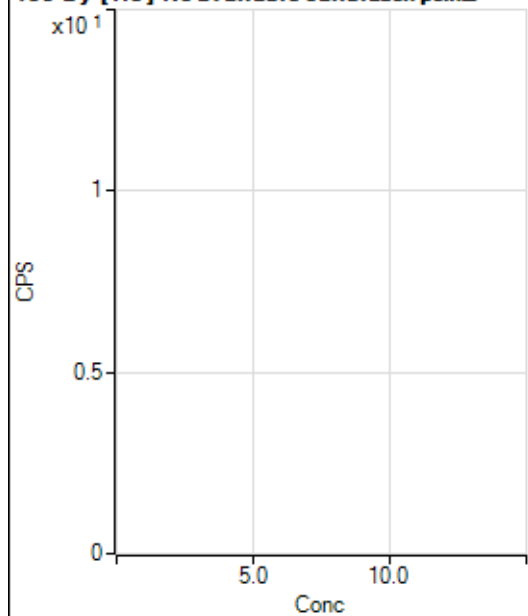
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 78.1 |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 132. |
| 3 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 49.3 |
| 4 | <input type="checkbox"/> |       |            | 114.45 |       | P        | 11.0 |
| 5 | <input type="checkbox"/> |       |            | 212.23 |       | P        | 7.7  |
| 6 | <input type="checkbox"/> |       |            | 450.01 |       | P        | 12.2 |
| 7 | <input type="checkbox"/> |       |            | 764.48 |       | P        | 19.3 |
| 8 | <input type="checkbox"/> |       |            | 194.45 |       | P        | 8.1  |

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

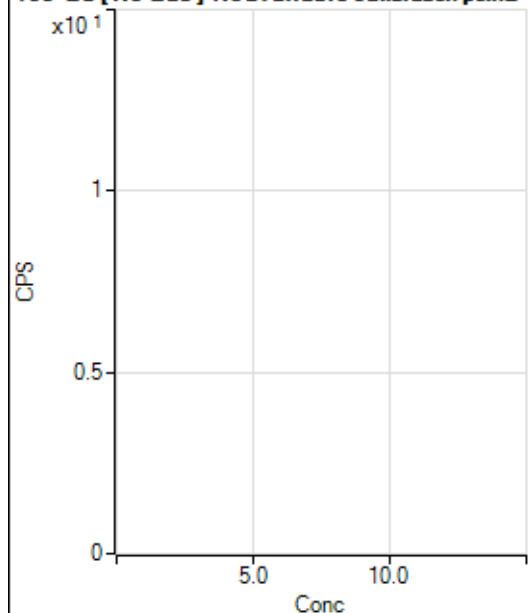
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.44   |       | P        | 114. |
| 2 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 7.78   |       | P        | 89.2 |
| 4 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 54.1 |
| 5 | <input type="checkbox"/> |       |            | 64.44  |       | P        | 7.9  |
| 6 | <input type="checkbox"/> |       |            | 114.44 |       | P        | 16.8 |
| 7 | <input type="checkbox"/> |       |            | 216.67 |       | P        | 10.7 |
| 8 | <input type="checkbox"/> |       |            | 118.89 |       | P        | 9.8  |

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

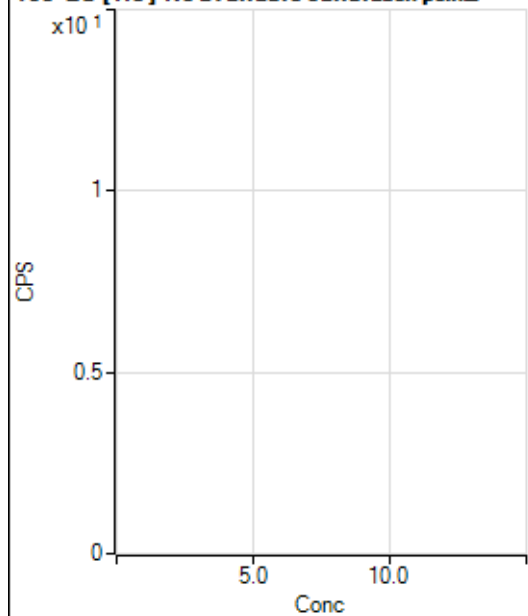
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 21.6 |
| 2 | <input type="checkbox"/> |       |            | 12.22  |       | P        | 15.7 |
| 3 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 28.9 |
| 4 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 43.7 |
| 5 | <input type="checkbox"/> |       |            | 75.56  |       | P        | 13.5 |
| 6 | <input type="checkbox"/> |       |            | 141.11 |       | P        | 25.3 |
| 7 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 8.7  |
| 8 | <input type="checkbox"/> |       |            | 322.23 |       | P        | 12.5 |

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

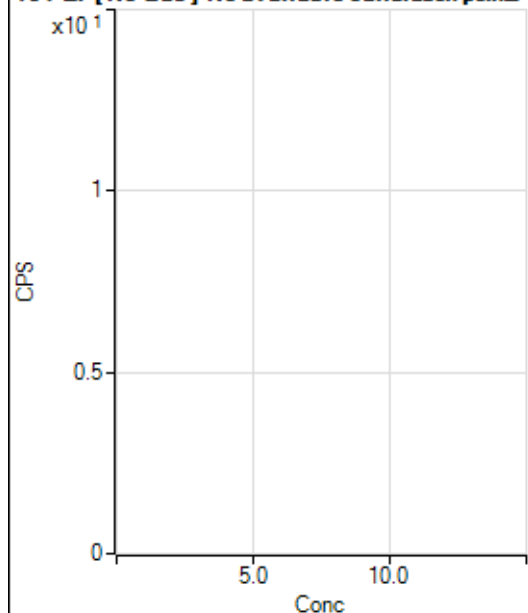
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.44   |       | P        | 43.4 |
| 2 | <input type="checkbox"/> |       |            | 12.22  |       | P        | 78.7 |
| 3 | <input type="checkbox"/> |       |            | 46.66  |       | P        | 24.7 |
| 4 | <input type="checkbox"/> |       |            | 85.56  |       | P        | 9.8  |
| 5 | <input type="checkbox"/> |       |            | 158.89 |       | P        | 13.5 |
| 6 | <input type="checkbox"/> |       |            | 343.34 |       | P        | 7.7  |
| 7 | <input type="checkbox"/> |       |            | 670.02 |       | P        | 4.7  |
| 8 | <input type="checkbox"/> |       |            | 288.89 |       | P        | 17.4 |

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

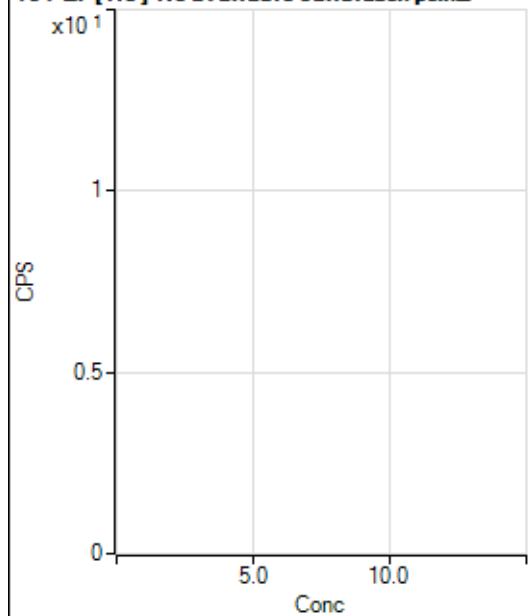
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 62.22  |       | P        | 8.2  |
| 2 | <input type="checkbox"/> |       |            | 54.45  |       | P        | 19.7 |
| 3 | <input type="checkbox"/> |       |            | 54.44  |       | P        | 9.4  |
| 4 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 29.6 |
| 5 | <input type="checkbox"/> |       |            | 65.55  |       | P        | 46.1 |
| 6 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 28.3 |
| 7 | <input type="checkbox"/> |       |            | 155.56 |       | P        | 17.8 |
| 8 | <input type="checkbox"/> |       |            | 353.34 |       | P        | 16.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 438.90 |       | P        | 14.0 |
| 2 | <input type="checkbox"/> |       |            | 421.12 |       | P        | 10.8 |
| 3 | <input type="checkbox"/> |       |            | 444.46 |       | P        | 5.6  |
| 4 | <input type="checkbox"/> |       |            | 415.57 |       | P        | 23.7 |
| 5 | <input type="checkbox"/> |       |            | 431.12 |       | P        | 7.8  |
| 6 | <input type="checkbox"/> |       |            | 460.01 |       | P        | 3.8  |
| 7 | <input type="checkbox"/> |       |            | 458.90 |       | P        | 14.6 |
| 8 | <input type="checkbox"/> |       |            | 571.13 |       | P        | 1.5  |

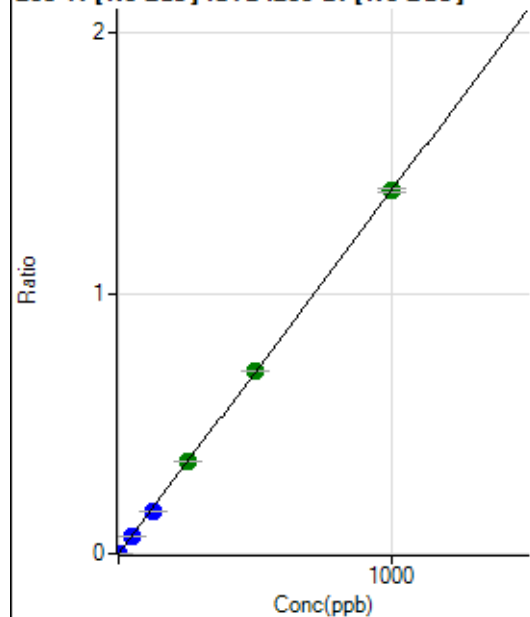
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 47.78  |       | P        | 14.5 |
| 2 | <input type="checkbox"/> |       |            | 54.44  |       | P        | 15.4 |
| 3 | <input type="checkbox"/> |       |            | 64.44  |       | P        | 11.9 |
| 4 | <input type="checkbox"/> |       |            | 65.55  |       | P        | 20.6 |
| 5 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 17.8 |
| 6 | <input type="checkbox"/> |       |            | 115.56 |       | P        | 6.0  |
| 7 | <input type="checkbox"/> |       |            | 174.45 |       | P        | 19.3 |
| 8 | <input type="checkbox"/> |       |            | 425.57 |       | P        | 9.3  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 38.7 |
| 2 | <input type="checkbox"/> |       |            | 42.22  |       | P        | 27.7 |
| 3 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 39.8 |
| 4 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 11.4 |
| 5 | <input type="checkbox"/> |       |            | 65.56  |       | P        | 15.5 |
| 6 | <input type="checkbox"/> |       |            | 81.11  |       | P        | 10.3 |
| 7 | <input type="checkbox"/> |       |            | 140.00 |       | P        | 10.9 |
| 8 | <input type="checkbox"/> |       |            | 321.12 |       | P        | 5.1  |

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      | 142.23     | 0.0000 | P        | 21.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.916      | 8188.07    | 0.0013 | P        | 4.7  |
| 3 | <input type="checkbox"/> | 50.000   | 46.566     | 410680.88  | 0.0649 | P        | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 117.457    | 1054760.98 | 0.1638 | P        | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 252.092    | 2271624.79 | 0.3514 | A        | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 502.649    | 4543953.37 | 0.7007 | A        | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.268    | 8945546.81 | 1.3929 | A        | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 1660.12    | 0.0003 | P        | 27.0 |

$$y = 0.0014 * x + 2.3131E-005$$

$$R = 1.0000$$

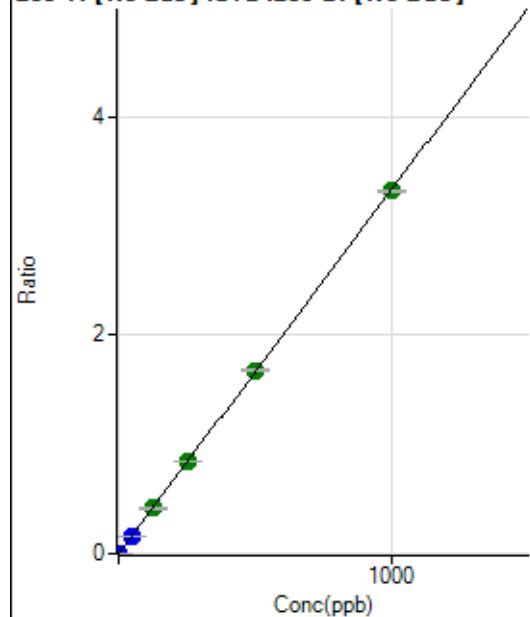
$$DL = 0.01074$$

$$BEC = 0.01659$$

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      | 302.23      | 0.0000 | P        | 21.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.927      | 19774.46    | 0.0031 | P        | 4.1  |
| 3 | <input type="checkbox"/> | 50.000   | 46.195     | 973672.08   | 0.1539 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 125.251    | 2687812.51  | 0.4173 | A        | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 253.718    | 5463499.36  | 0.8452 | A        | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 504.441    | 10898555.67 | 1.6805 | A        | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.009    | 21330177.74 | 3.3213 | A        | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 4010.66     | 0.0007 | P        | 24.4 |

$$y = 0.0033 * x + 4.9164E-005$$

$$R = 1.0000$$

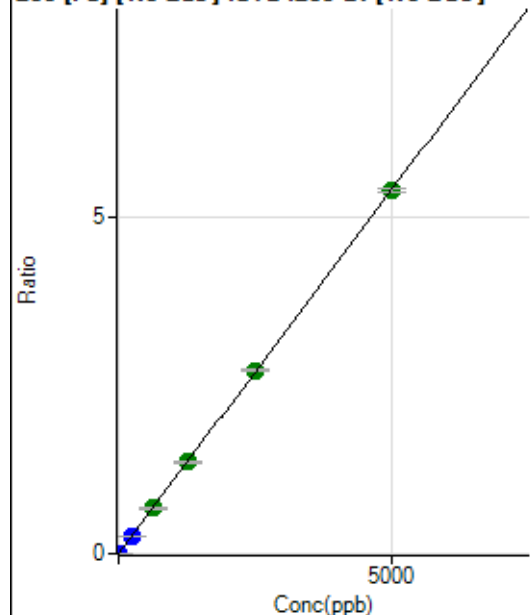
$$DL = 0.009361$$

$$BEC = 0.01476$$

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      | 875.59      | 0.0001 | P        | 4.6  |
| 2 | <input type="checkbox"/> | 1.000    | 0.957      | 7404.30     | 0.0012 | P        | 2.7  |
| 3 | <input type="checkbox"/> | 250.000  | 232.991    | 1590122.93  | 0.2514 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 622.436    | 4324635.63  | 0.6714 | A        | 1.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1259.131   | 8777912.78  | 1.3580 | A        | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2521.544   | 17635196.68 | 2.7194 | A        | 1.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 4988.116   | 34547759.21 | 5.3794 | A        | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 8492.83     | 0.0015 | P        | 22.5 |

$$y = 0.0011 * x + 1.4232E-004$$

$$R = 1.0000$$

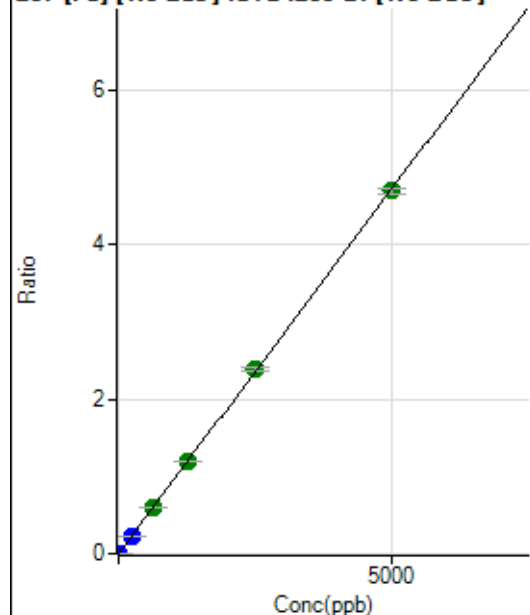
$$DL = 0.01832$$

$$BEC = 0.132$$

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      | 764.47      | 0.0001 | P        | 7.2  |
| 2 | <input type="checkbox"/> | 1.000    | 0.948      | 6411.57     | 0.0010 | P        | 2.1  |
| 3 | <input type="checkbox"/> | 250.000  | 231.213    | 1377987.86  | 0.2179 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 628.414    | 3812624.04  | 0.5919 | A        | 1.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1268.200   | 7720974.33  | 1.1944 | A        | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2533.926   | 15474627.13 | 2.3864 | A        | 1.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4978.999   | 30113218.16 | 4.6889 | A        | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 7255.41     | 0.0013 | P        | 21.9 |

$$y = 9.4171E-004 * x + 1.2420E-004$$

$$R = 0.9999$$

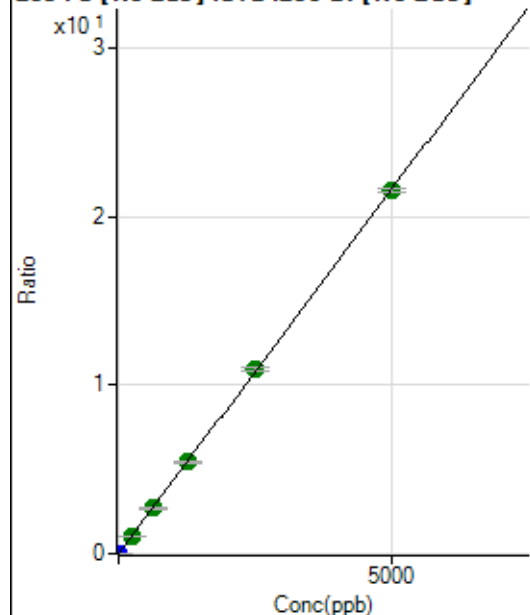
$$DL = 0.02835$$

$$BEC = 0.1319$$

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      | 3449.10     | 0.0006  | P        | 4.4  |
| 2 | <input type="checkbox"/> | 1.000    | 0.958      | 29614.06    | 0.0047  | P        | 1.1  |
| 3 | <input type="checkbox"/> | 250.000  | 241.394    | 6598667.71  | 1.0433  | A        | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 623.280    | 17344747.80 | 2.6928  | A        | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1260.106   | 35187425.72 | 5.4436  | A        | 1.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2533.501   | 70969785.20 | 10.9440 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4981.368   | 138189050.1 | 21.5175 | A        | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 33404.69    | 0.0060  | P        | 21.9 |

$$y = 0.0043 * x + 5.6063E-004$$

$$R = 1.0000$$

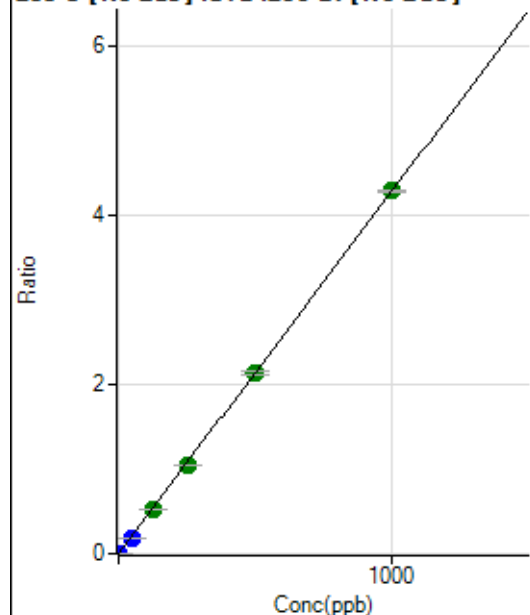
$$DL = 0.01726$$

$$BEC = 0.1298$$

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      | 27.78       | 0.0000 | P        | 28.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.882      | 23835.90    | 0.0038 | P        | 2.2  |
| 3 | <input type="checkbox"/> | 50.000   | 43.323     | 1173530.93  | 0.1855 | P        | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 121.962    | 3364288.39  | 0.5223 | A        | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 243.567    | 6742269.21  | 1.0431 | A        | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 500.485    | 13898432.01 | 2.1433 | A        | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1002.080   | 27560483.48 | 4.2914 | A        | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 4961.04     | 0.0009 | P        | 31.7 |

$$y = 0.0043 * x + 4.5187E-006$$

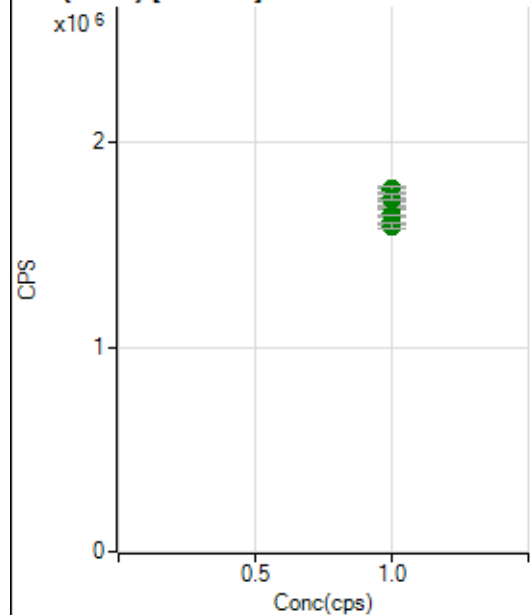
$$R = 1.0000$$

$$DL = 0.0008967$$

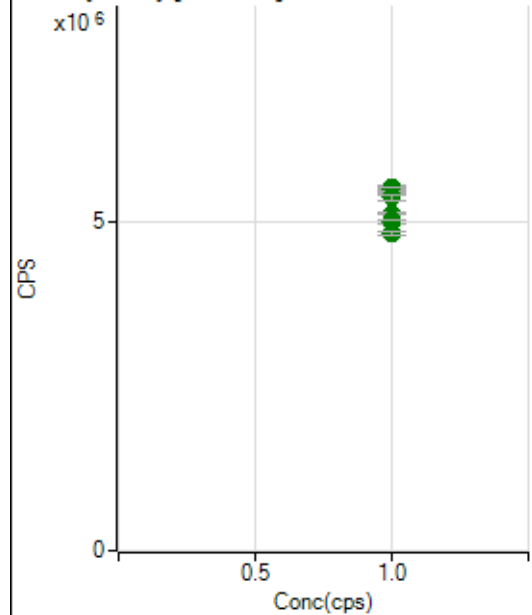
$$BEC = 0.001055$$

Weight: &lt;None&gt;

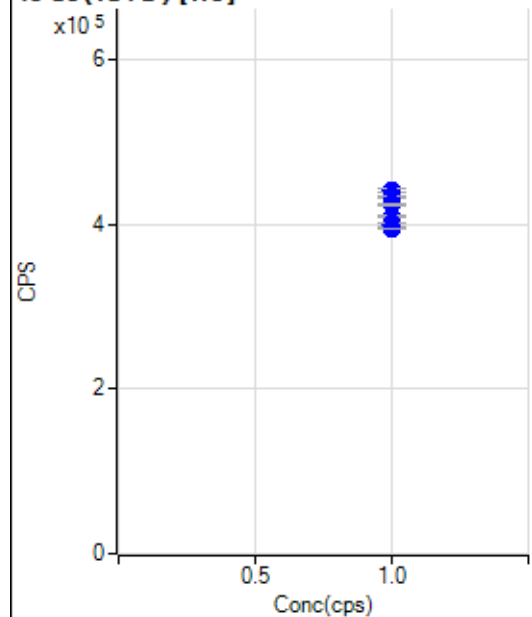
Min Conc: 0

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

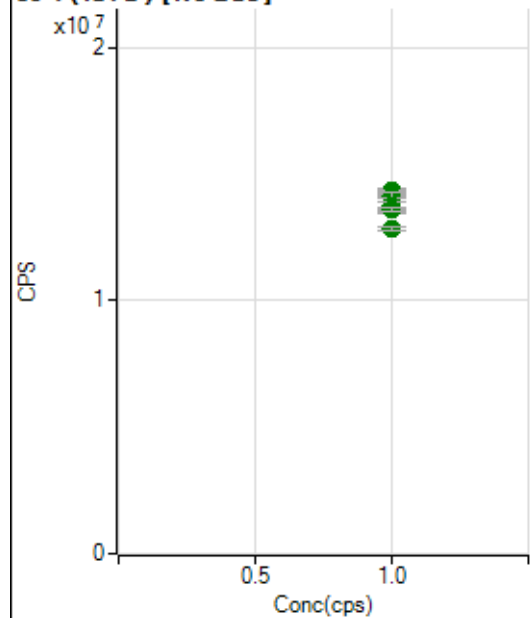
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1618138.95 |       | A        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1656352.25 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1686019.30 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1718539.84 |       | A        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1764445.79 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1771592.01 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1730839.54 |       | A        | 1.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1590150.43 |       | A        | 1.6 |

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

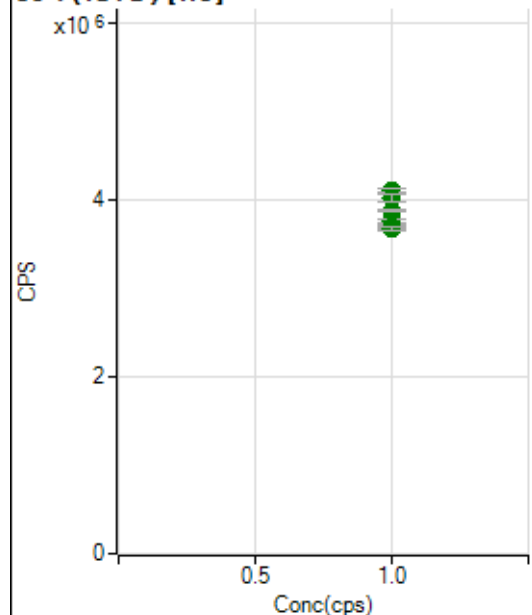
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5443850.40 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5529457.28 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5514462.21 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5386187.49 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5141806.59 |       | A        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5015007.84 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5046516.07 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4834773.85 |       | A        | 1.0 |

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

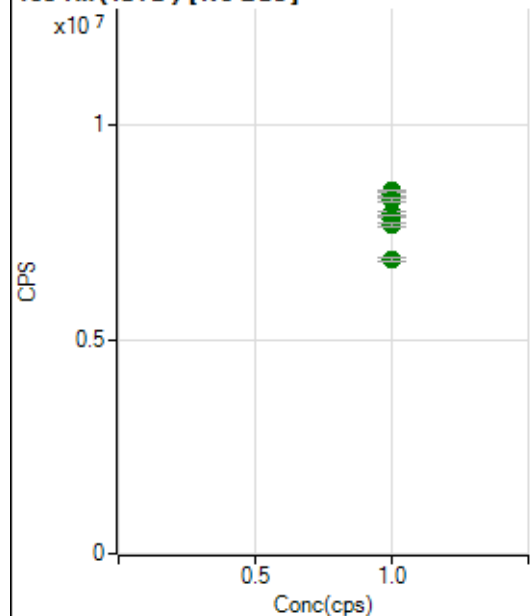
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 433006.90 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 440245.77 |       | P        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 433864.25 |       | P        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 423933.63 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 409097.48 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 400964.96 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 398875.92 |       | P        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 393918.03 |       | P        | 0.3 |

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

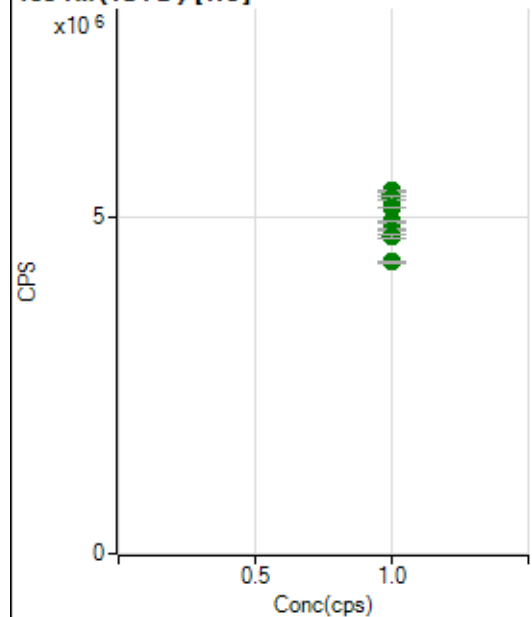
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14254854.23 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14339342.15 |       | A        | 1.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14285600.20 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14170257.84 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13758735.63 |       | A        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13570724.80 |       | A        | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13607176.05 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12846492.17 |       | A        | 0.8 |

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

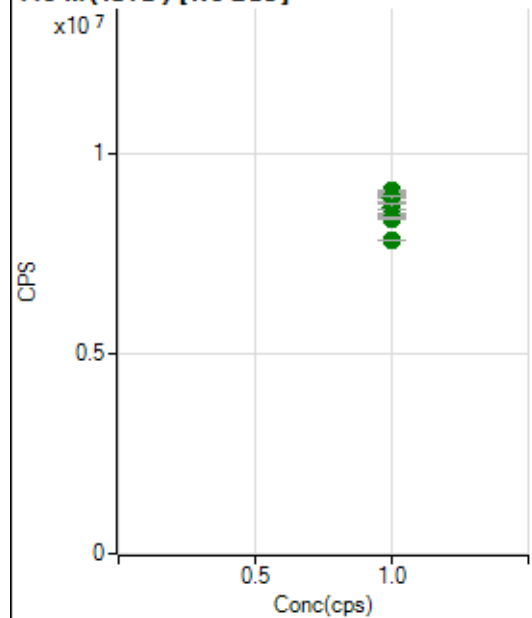
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4007085.88 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4095323.17 |       | A        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4015720.50 |       | A        | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3871257.58 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3756453.52 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3696706.65 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3688724.15 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3670400.60 |       | A        | 1.6 |

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

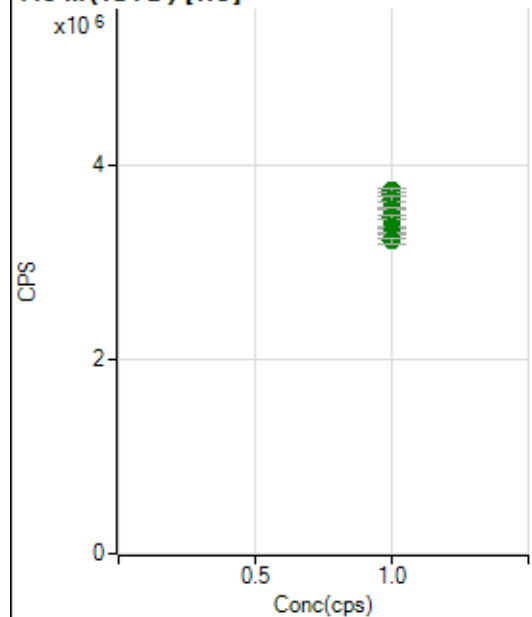
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8386287.72 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8395141.96 |       | A        | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8472620.78 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8251816.89 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7944785.23 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7804670.85 |       | A        | 2.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7682206.76 |       | A        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6856802.19 |       | A        | 1.1 |

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

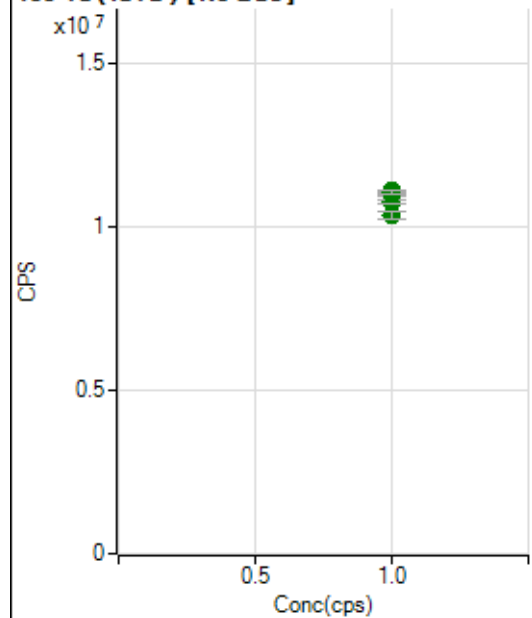
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5355067.21 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5398163.60 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5293952.14 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5143386.87 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4936455.27 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4817868.65 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4712522.64 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4337854.97 |       | A        | 0.8 |

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

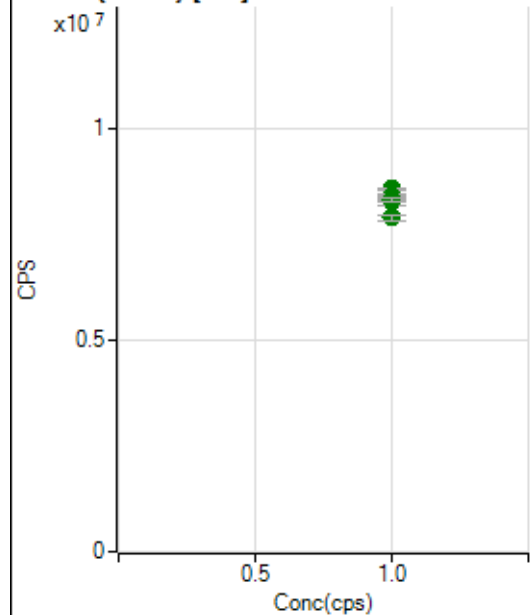
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8958863.33 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9075616.10 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8962758.26 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8879593.97 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8673563.89 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8488946.04 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8382237.56 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7835339.45 |       | A        | 0.4 |

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

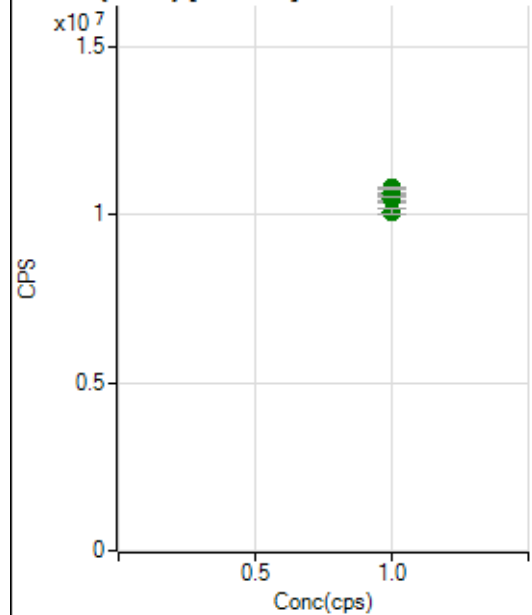
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3703106.35 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3742709.39 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3658527.37 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3557979.11 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3480441.83 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3362785.89 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3304883.24 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3228074.79 |       | A        | 1.9 |

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

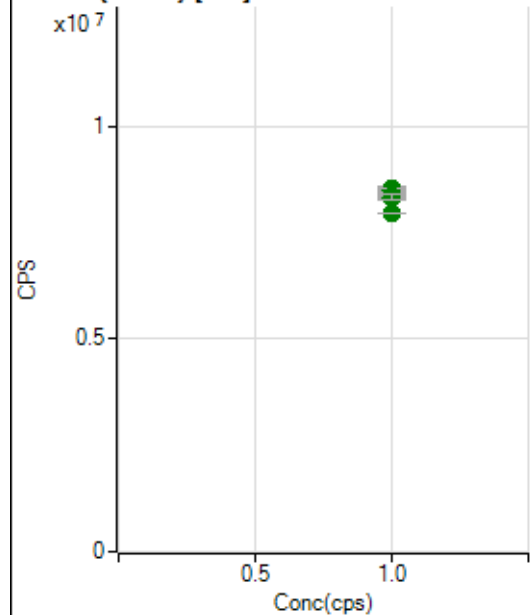
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10810763.73 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10786635.53 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11010238.17 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11115633.03 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11065655.25 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11018750.11 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11069829.97 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10366393.46 |       | A        | 2.1 |

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

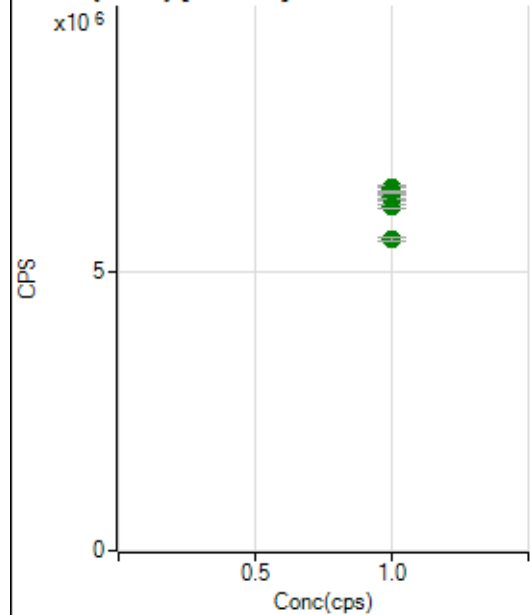
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8392010.78 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8591416.19 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8433720.71 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8400892.23 |       | A        | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8323055.36 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8291272.17 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8335629.74 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7901010.99 |       | A        | 1.2 |

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

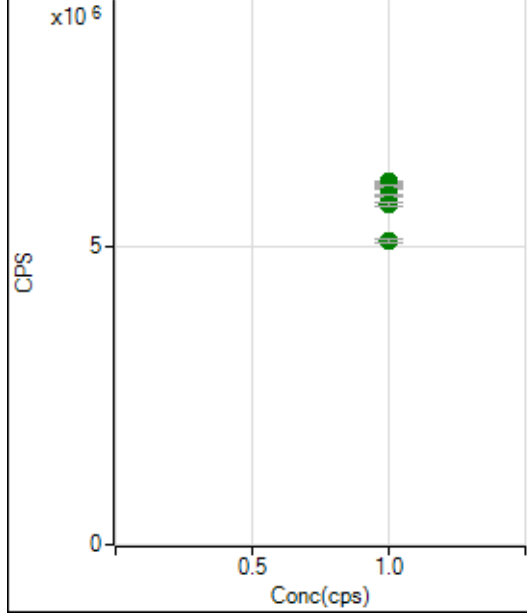
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10454898.94 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10473097.62 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10664896.85 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10644747.41 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10555710.40 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10658790.40 |       | A        | 2.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10798642.76 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10093648.74 |       | A        | 1.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8467333.35 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8528487.44 |       | A        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8484642.51 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8483886.54 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8341288.70 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8355503.35 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8323890.57 |       | A        | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7951145.44 |       | A        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6153456.23 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6303302.61 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6325613.17 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6442298.93 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6464089.21 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6485338.31 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6422208.45 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5563997.90 |       | A        | 1.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5973668.38 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6068127.06 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6016596.44 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6001972.69 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5851848.73 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5827672.13 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5702383.80 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5088832.21 |       | A        | 1.3 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7012925-MSA.b  
Acq. Date-Time 2025-01-29 17:28:38  
Report Comment ---  
Instrument Name G8403A JP14410463

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 7423   | 74234.70   |                            |             | 0.430  | 5.000           |
| 24   |              | 205704 | 2057036.75 |                            |             | 1.007  | 5.000           |
| 25   |              | 26274  | 262739.49  |                            |             | 0.150  | 5.000           |
| 26   |              | 30089  | 300886.94  |                            |             | 0.185  | 5.000           |
| 59   |              | 70050  | 700495.78  |                            |             | 0.338  | 5.000           |
| 113  |              | 9128   | 91277.62   |                            |             | 0.422  | 5.000           |
| 115  |              | 114550 | 1145497.10 |                            |             | 0.494  | 5.000           |
| 206  |              | 22951  | 229511.23  |                            |             | 0.610  | 5.000           |
| 207  |              | 19934  | 199335.58  |                            |             | 0.739  | 5.000           |
| 208  |              | 47013  | 470125.08  |                            |             | 0.391  | 5.000           |
| 220  |              | 0      | 2.70       |                            |             | 30.988 |                 |

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

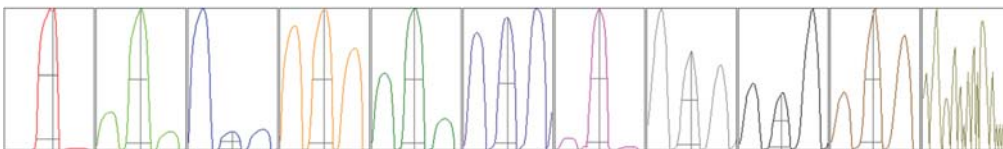
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 7373        | 7462        | 7421        | 7427        | 7434        |
| 24   | 206403      | 203807      | 203413      | 206510      | 208384      |
| 25   | 26307       | 26257       | 26324       | 26234       | 26248       |
| 26   | 30112       | 30037       | 30174       | 30073       | 30047       |
| 59   | 69971       | 69976       | 70469       | 69947       | 69886       |
| 113  | 9128        | 9130        | 9190        | 9100        | 9092        |
| 115  | 115138      | 114160      | 113890      | 115130      | 114430      |
| 206  | 23123       | 22876       | 23082       | 22824       | 22851       |
| 207  | 20020       | 19836       | 20152       | 19846       | 19814       |
| 208  | 47261       | 46982       | 47127       | 46890       | 46802       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 11973.20    | 9.15   | 8.90 - 9.10     | Fail        |
| 24   | 339722.25   | 24.00  | 23.90 - 24.10   |             |
| 25   | 43082.71    | 25.00  | 24.90 - 25.10   |             |
| 26   | 48934.24    | 26.00  | 25.90 - 26.10   |             |
| 59   | 117906.16   | 58.95  | 58.90 - 59.10   |             |
| 113  | 17217.73    | 113.00 | 112.90 - 113.10 |             |
| 115  | 217991.12   | 115.00 | 114.90 - 115.10 |             |
| 206  | 46141.97    | 206.00 | 205.90 - 206.10 |             |
| 207  | 39154.85    | 206.95 | 206.90 - 207.10 |             |
| 208  | 95073.74    | 207.95 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.63  | 0.769 | 0.900           |             |
| 24   | 0.65  | 0.827 | 0.900           |             |
| 25   | 0.65  | 0.761 | 0.900           |             |
| 26   | 0.65  | 0.804 | 0.900           |             |
| 59   | 0.62  | 0.776 | 0.900           |             |
| 113  | 0.54  | 0.733 | 0.900           |             |
| 115  | 0.53  | 0.724 | 0.900           |             |
| 206  | 0.52  | 0.767 | 0.900           |             |
| 207  | 0.51  | 0.730 | 0.900           |             |
| 208  | 0.51  | 0.739 | 0.900           |             |
| 220  |       |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.82 L/min

Dilution Gas 0.40 L/min

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|              |        |                |          |               |            |
|--------------|--------|----------------|----------|---------------|------------|
| RF Power     | 1600 W | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | 0.0 V    | Omega Lens    | 8.0 V | Deflect    | 14.4 V |
| Extract 2  | -120.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -55 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 130 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 139 | Axis Gain   | 0.9973 | QP Bias | -3.0 V |
| Mass Offset | 129 | Axis Offset | 0.16   |         |        |

## Hardware Settings

### Torch

|         |        |         |        |
|---------|--------|---------|--------|
| Torch H | 0.0 mm | Torch V | 0.3 mm |
|---------|--------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.8 mV | Analog HV | 2267 V | Pulse HV | 1066 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 22032 | 220320.15 |                            |             | 0.305 |                 |
| 89   |              | 42164 | 421638.57 |                            |             | 0.699 |                 |
| 205  |              | 26508 | 265081.46 |                            |             | 0.893 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 22065       | 22078       | 22095       | 21979       | 21943       |
| 89   | 42553       | 41999       | 41967       | 41896       | 42405       |
| 205  | 26893       | 26513       | 26496       | 26365       | 26273       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.82 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C       |               |            |

## Lens Parameters

|           |       |            |       |         |       |
|-----------|-------|------------|-------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 8.4 V | Deflect | 2.8 V |
|-----------|-------|------------|-------|---------|-------|

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|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -110.0 V   | Cell Entrance | -40 V   | Plate Bias            | -60 V   |
| Omega Bias               | -55 V      | Cell Exit     | -60 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 3.9 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 139        | Axis Gain     | 0.9973  | QP Bias               | -13.0 V |
| Mass Offset              | 129        | Axis Offset   | 0.16    |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 0.0 mm     | Torch V       | 0.3 mm  |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 4.8 mV     | Analog HV     | 2267 V  | Pulse HV              | 1066 V  |