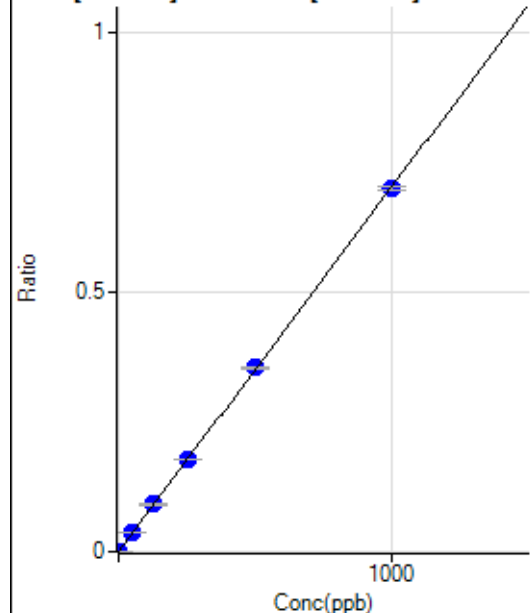


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7112420 MS.b\  
Analysis File: P7112420 MS.batch.bin  
DA Date-Time: 2020-11-25 00:57:45  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2020-11-24 16:17:00 |
| 2     | 004CALS.d          | S02         | 2020-11-24 16:20:32 |
| 3     | 005CALS.d          | S03         | 2020-11-24 16:24:04 |
| 4     | 006CALS.d          | S04         | 2020-11-24 16:27:38 |
| 5     | 007CALS.d          | S05         | 2020-11-24 16:31:10 |
| 6     | 008CALS.d          | S06         | 2020-11-24 16:34:41 |
| 7     | 009CALS.d          | S07         | 2020-11-24 16:38:04 |
| 8     | 010CALS.d          | S08         | 2020-11-24 16:41:25 |

**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      | 40.74      | 0.0000 | P   | 48.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.947      | 1664.93    | 0.0007 | P   | 9.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.093     | 87804.01   | 0.0359 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 130.377    | 219023.32  | 0.0917 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 254.011    | 435317.88  | 0.1786 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 505.427    | 866881.67  | 0.3553 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.557    | 1675919.41 | 0.6998 | P   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 144.45     | 0.0001 | P   | 19.2 |

$$y = 7.0288\text{E-}004 * x + 1.6975\text{E-}005$$

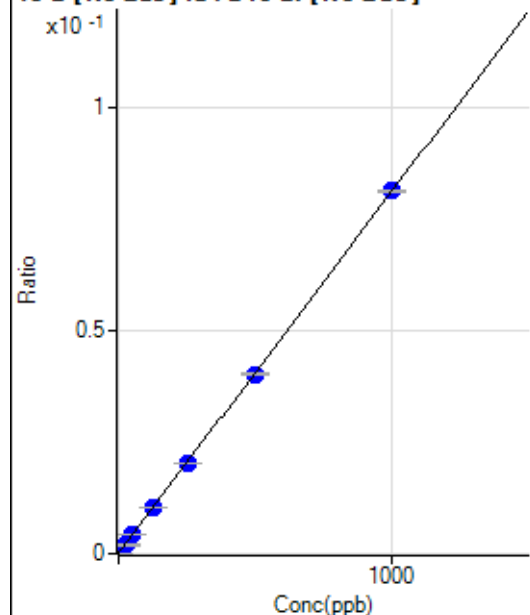
$$R = 1.0000$$

$$DL = 0.03535$$

$$BEC = 0.02415$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 347.23    | 0.0001 | P   | 12.4 |
| 2 | <input type="checkbox"/> | 25.000   | 22.504     | 4795.31   | 0.0020 | P   | 7.4  |
| 3 | <input type="checkbox"/> | 50.000   | 50.637     | 10375.97  | 0.0042 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 125.706    | 24681.72  | 0.0103 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 249.033    | 49528.66  | 0.0203 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 494.145    | 98023.95  | 0.0402 | P   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.112   | 194932.62 | 0.0814 | P   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 4161.79   | 0.0018 | P   | 9.1  |

$$y = 8.0997\text{E-}005 * x + 1.4427\text{E-}004$$

$$R = 1.0000$$

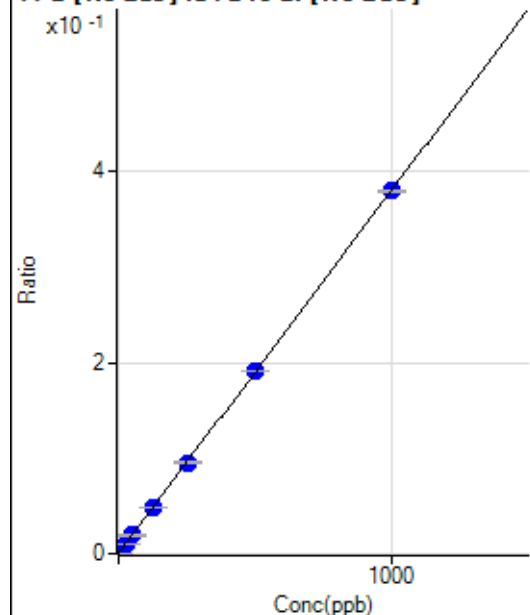
$$DL = 0.6614$$

$$BEC = 1.781$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1277.86   | 0.0005 | P   | 8.1 |
| 2 | <input type="checkbox"/> | 25.000   | 23.495     | 23020.69  | 0.0094 | P   | 2.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.081     | 46783.88  | 0.0191 | P   | 2.4 |
| 4 | <input type="checkbox"/> | 125.000  | 127.914    | 117222.47 | 0.0490 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 249.365    | 231872.88 | 0.0951 | P   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 502.297    | 466140.01 | 0.1910 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.730    | 908455.32 | 0.3793 | P   | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 19969.13  | 0.0087 | P   | 2.9 |

$$y = 3.7926E-004 * x + 5.3066E-004$$

$$R = 1.0000$$

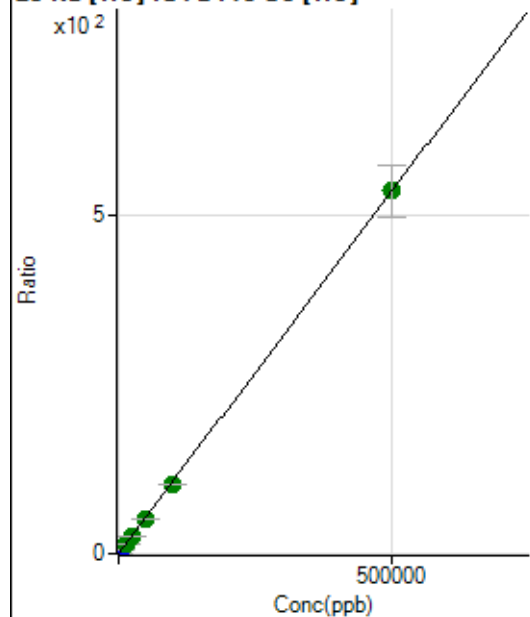
$$DL = 0.3406$$

$$BEC = 1.399$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 18025.10    | 0.0542   | P   | 3.3  |
| 2 | <input type="checkbox"/> | 500.000   | 483.620    | 194198.64   | 0.5724   | P   | 0.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5163.305   | 1894436.44  | 5.5873   | P   | 1.0  |
| 4 | <input type="checkbox"/> | 12500.000 | 12377.594  | 4467585.78  | 13.3183  | A   | 1.0  |
| 5 | <input type="checkbox"/> | 25000.000 | 24418.778  | 8883036.05  | 26.2220  | A   | 0.9  |
| 6 | <input type="checkbox"/> | 50000.000 | 48601.310  | 17715695.19 | 52.1366  | A   | 1.2  |
| 7 | <input type="checkbox"/> | 100000.00 | 96173.408  | 34641721.26 | 103.1161 | A   | 1.2  |
| 8 | <input type="checkbox"/> | 500000.00 | 500935.69  | 159700021.6 | 536.8701 | A   | 14.4 |

$$y = 0.0011 * x + 0.0542$$

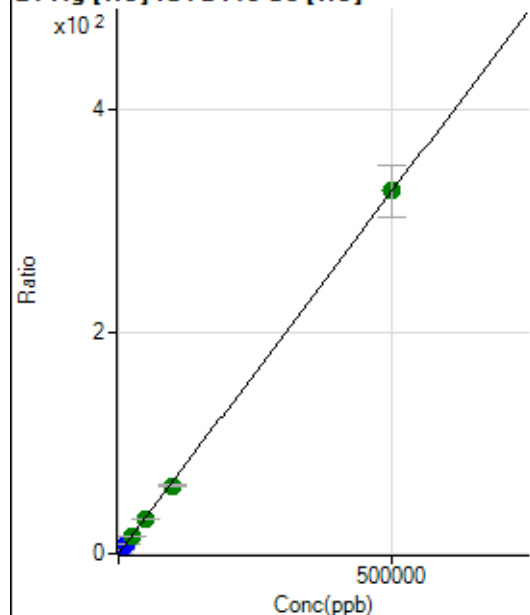
$$R = 1.0000$$

$$DL = 4.948$$

$$BEC = 50.53$$

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      | 227.79      | 0.0007   | P   | 29.2 |
| 2 | <input type="checkbox"/> | 500.000   | 465.643    | 103340.18   | 0.3046   | P   | 1.9  |
| 3 | <input type="checkbox"/> | 5000.000  | 5000.621   | 1106889.79  | 3.2645   | P   | 1.8  |
| 4 | <input type="checkbox"/> | 12500.000 | 12569.574  | 2752049.87  | 8.2045   | P   | 1.9  |
| 5 | <input type="checkbox"/> | 25000.000 | 23993.404  | 5305319.43  | 15.6606  | A   | 1.5  |
| 6 | <input type="checkbox"/> | 50000.000 | 47777.219  | 10596165.34 | 31.1837  | A   | 1.0  |
| 7 | <input type="checkbox"/> | 100000.00 | 93912.284  | 20591977.37 | 61.2949  | A   | 1.0  |
| 8 | <input type="checkbox"/> | 500000.00 | 501488.44  | 97351918.84 | 327.3100 | A   | 14.5 |

$$y = 6.5268\text{E-}004 * x + 6.8376\text{E-}004$$

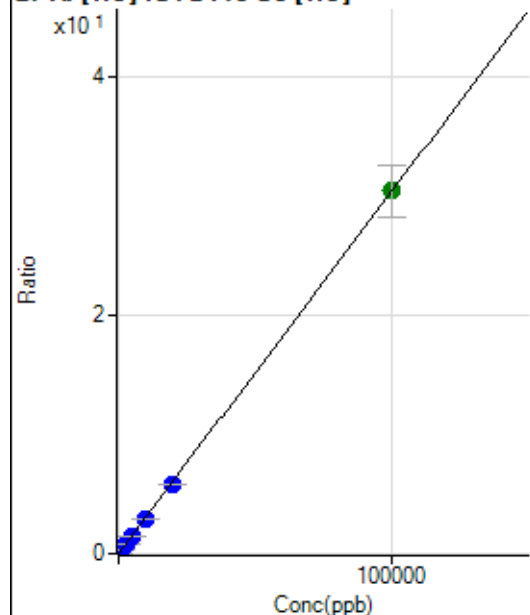
$$R = 0.9999$$

$$DL = 0.9169$$

$$BEC = 1.048$$

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      | 152.78     | 0.0005  | P   | 6.6  |
| 2 | <input type="checkbox"/> | 20.000    | 129.388    | 13500.77   | 0.0398  | P   | 2.5  |
| 3 | <input type="checkbox"/> | 1000.000  | 984.616    | 101656.97  | 0.2998  | P   | 3.3  |
| 4 | <input type="checkbox"/> | 2500.000  | 2462.637   | 251257.36  | 0.7491  | P   | 3.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 4798.172   | 494293.70  | 1.4591  | P   | 1.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 9671.000   | 999202.38  | 2.9405  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19115.129  | 1952346.62 | 5.8115  | P   | 1.5  |
| 8 | <input type="checkbox"/> | 100000.00 | 100221.03  | 9063742.99 | 30.4678 | A   | 14.3 |

$$y = 3.0400\text{E-}004 * x + 4.5911\text{E-}004$$

$$R = 1.0000$$

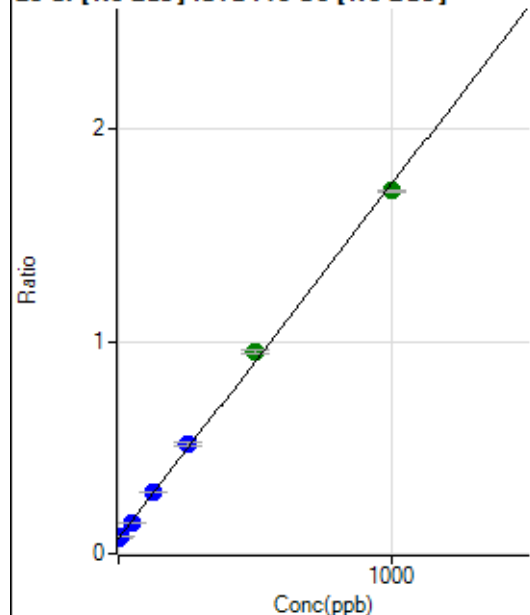
$$DL = 0.2972$$

$$BEC = 1.51$$

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      | 354033.91  | 0.0721 | P   | 1.2 |
| 2 | <input type="checkbox"/> | 10.000   | 5.544      | 408110.85  | 0.0813 | P   | 0.7 |
| 3 | <input type="checkbox"/> | 50.000   | 45.064     | 743305.66  | 0.1473 | P   | 2.5 |
| 4 | <input type="checkbox"/> | 125.000  | 130.068    | 1418413.99 | 0.2891 | P   | 1.8 |
| 5 | <input type="checkbox"/> | 250.000  | 267.536    | 2622789.99 | 0.5185 | P   | 4.1 |
| 6 | <input type="checkbox"/> | 500.000  | 527.825    | 4812776.71 | 0.9529 | A   | 1.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 981.361    | 8440200.36 | 1.7098 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 591799.53  | 0.1262 | P   | 1.1 |

$$y = 0.0017 * x + 0.0721$$

$$R = 0.9991$$

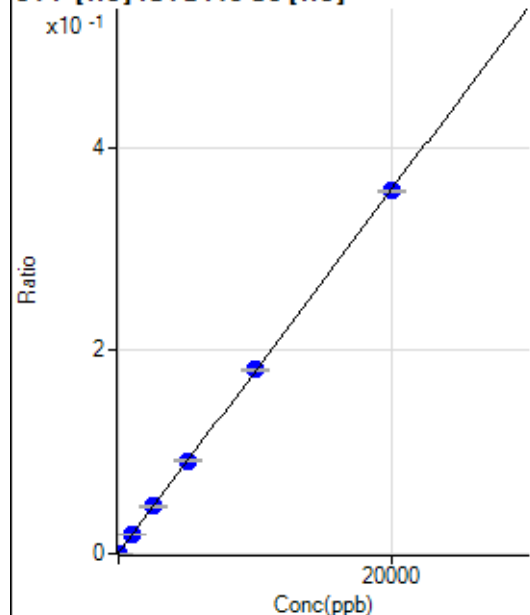
$$DL = 1.532$$

$$BEC = 43.19$$

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     | -0.295     | 255.56    | 0.0008 | P   | 9.8  |
| 2 | <input type="checkbox"/> | 0.000     | 0.295      | 263.90    | 0.0008 | P   | 13.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 1014.147   | 6407.10   | 0.0189 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 2500.000  | 2579.361   | 15719.76  | 0.0469 | P   | 4.2  |
| 5 | <input type="checkbox"/> | 5000.000  | 5078.870   | 31010.28  | 0.0915 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 10000.000 | 10088.989  | 61534.76  | 0.1811 | P   | 1.5  |
| 7 | <input type="checkbox"/> | 20000.000 | 19925.161  | 119885.80 | 0.3568 | P   | 0.3  |
| 8 | <input type="checkbox"/> |           |            | 244.46    | 0.0008 | P   | 12.7 |

$$y = 1.7871E-005 * x + 7.7276E-004$$

$$R = 1.0000$$

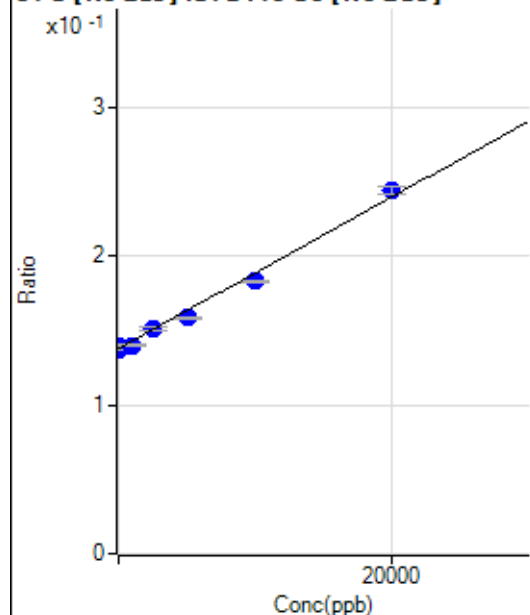
$$DL = 15.06$$

$$BEC = 43.24$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 250.184    | 684667.26  | 0.1394 | P   | 0.7 |
| 2 | <input type="checkbox"/> | 0.000     | -250.184   | 686641.50  | 0.1368 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 413.738    | 707585.57  | 0.1402 | P   | 0.5 |
| 4 | <input type="checkbox"/> | 2500.000  | 2624.534   | 742734.36  | 0.1515 | P   | 2.3 |
| 5 | <input type="checkbox"/> | 5000.000  | 4113.859   | 804687.79  | 0.1591 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 10000.000 | 8862.683   | 925529.55  | 0.1833 | P   | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 20803.940  | 1204942.46 | 0.2441 | P   | 1.9 |
| 8 | <input type="checkbox"/> |           |            | 630692.45  | 0.1344 | P   | 0.2 |

$$y = 5.0962\text{E-}006 * x + 0.1381$$

R = 0.9963

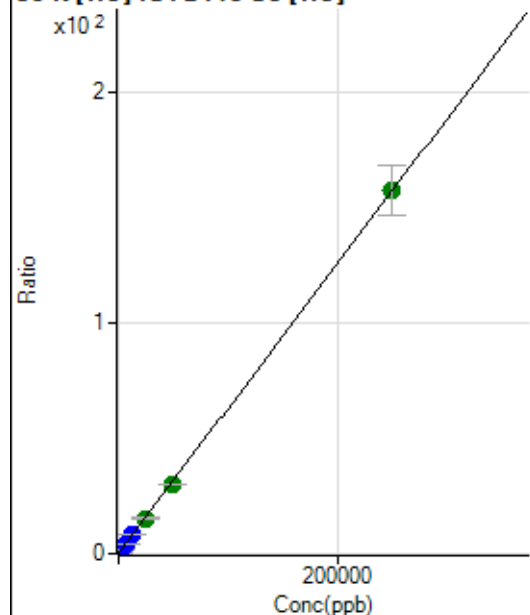
DL = 478.7

BEC = 2.71E+04

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 69549.07    | 0.2090   | P   | 0.5  |
| 2 | <input type="checkbox"/> | 500.000   | 472.798    | 171599.19   | 0.5058   | P   | 0.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2582.017   | 620464.74   | 1.8300   | P   | 1.0  |
| 4 | <input type="checkbox"/> | 6250.000  | 6506.024   | 1440201.95  | 4.2935   | P   | 1.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 12817.963  | 2796917.27  | 8.2562   | P   | 0.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 24205.506  | 5234825.85  | 15.4054  | A   | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 47451.694  | 10078170.02 | 29.9995  | A   | 1.4  |
| 8 | <input type="checkbox"/> | 250000.00 | 250566.04  | 46875271.19 | 157.5165 | A   | 13.9 |

$$y = 6.2781\text{E-}004 * x + 0.2090$$

R = 0.9999

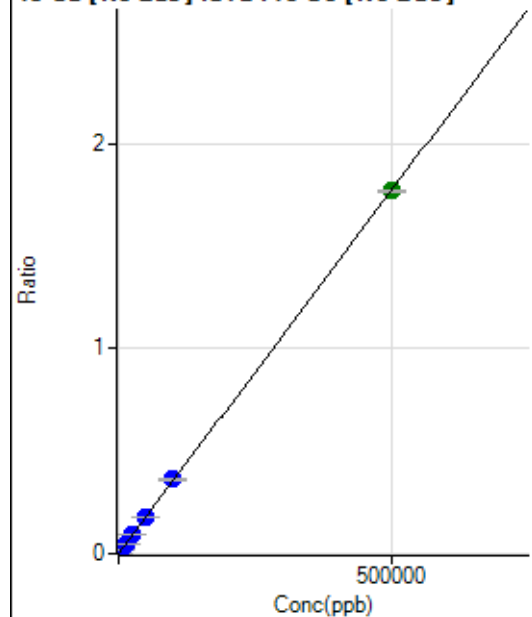
DL = 4.766

BEC = 332.9

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 205.56     | 0.0000 | P   | 33.3 |
| 2 | <input type="checkbox"/> | 500.000   | 502.238    | 9147.49    | 0.0018 | P   | 4.6  |
| 3 | <input type="checkbox"/> | 5000.000  | 5242.160   | 94038.82   | 0.0186 | P   | 0.3  |
| 4 | <input type="checkbox"/> | 12500.000 | 13421.553  | 233647.41  | 0.0476 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 25000.000 | 26190.487  | 470120.25  | 0.0929 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 50000.000 | 51466.908  | 922066.92  | 0.1826 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 102443.27  | 1793502.64 | 0.3634 | P   | 2.0  |
| 8 | <input type="checkbox"/> | 500000.00 | 499279.66  | 8306601.57 | 1.7708 | A   | 0.7  |

$$y = 3.5466\text{E-}006 * x + 4.1801\text{E-}005$$

$$R = 1.0000$$

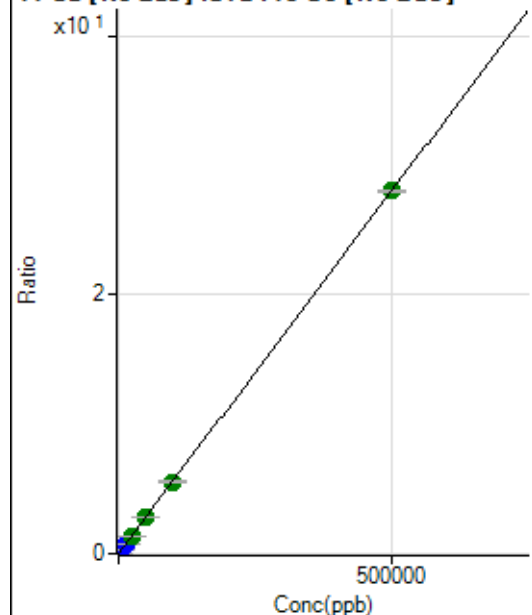
$$DL = 11.79$$

$$BEC = 11.79$$

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      | 34742.05    | 0.0071  | P   | 1.8 |
| 2 | <input type="checkbox"/> | 500.000   | 515.608    | 180459.80   | 0.0360  | P   | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5274.693   | 1527029.71  | 0.3026  | P   | 0.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 13477.441  | 3737176.14  | 0.7621  | P   | 2.1 |
| 5 | <input type="checkbox"/> | 25000.000 | 24878.843  | 7086874.37  | 1.4009  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 50000.000 | 49224.152  | 13963114.91 | 2.7648  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 98679.913  | 27323665.41 | 5.5355  | A   | 1.5 |
| 8 | <input type="checkbox"/> | 500000.00 | 500320.46  | 131520206.8 | 28.0369 | A   | 0.4 |

$$y = 5.6024\text{E-}005 * x + 0.0071$$

$$R = 1.0000$$

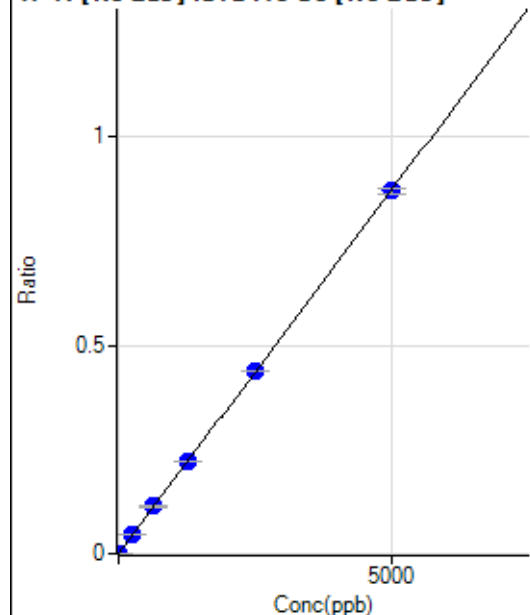
$$DL = 6.664$$

$$BEC = 126.2$$

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      | 163.89     | 0.0000 | P   | 28.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.630      | 4217.37    | 0.0008 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 250.000  | 254.571    | 224119.18  | 0.0444 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 625.000  | 653.150    | 558468.07  | 0.1139 | P   | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1259.815   | 1111124.94 | 0.2196 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2507.857   | 2207915.91 | 0.4372 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4989.871   | 4293345.76 | 0.8698 | P   | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 716.70     | 0.0002 | P   | 13.2 |

$$y = 1.7431E-004 * x + 3.3411E-005$$

$$R = 1.0000$$

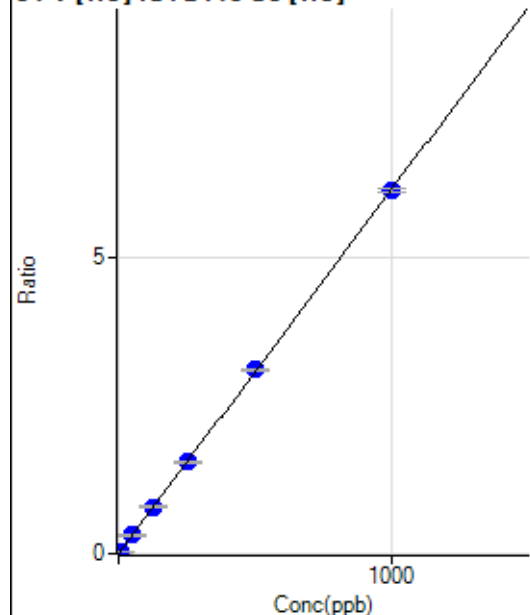
$$DL = 0.1659$$

$$BEC = 0.1917$$

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      | 11.11      | 0.0000 | P   | 75.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.808      | 10017.90   | 0.0295 | P   | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.316     | 104677.64  | 0.3087 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.860    | 263106.65  | 0.7844 | P   | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 252.033    | 523790.57  | 1.5462 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 505.891    | 1054588.45 | 3.1035 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.174    | 2053077.56 | 6.1113 | P   | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 296.68     | 0.0010 | P   | 18.8 |

$$y = 0.0061 * x + 3.3331E-005$$

$$R = 1.0000$$

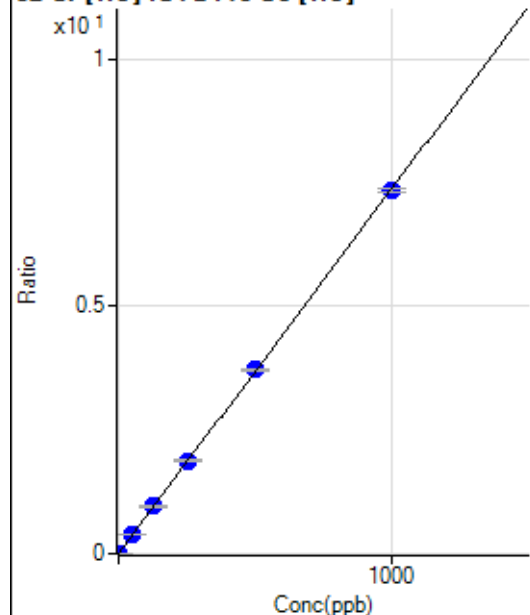
$$DL = 0.01222$$

$$BEC = 0.005433$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 832.25     | 0.0025 | P   | 5.8  |
| 2 | <input type="checkbox"/> | 2.000    | 2.025      | 5911.24    | 0.0174 | P   | 4.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.025     | 128374.41  | 0.3786 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 129.303    | 320510.53  | 0.9556 | P   | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 255.286    | 638289.79  | 1.8842 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 505.772    | 1267608.80 | 3.7305 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.203    | 2465169.56 | 7.3380 | P   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 22473.85   | 0.0754 | P   | 12.6 |

$$y = 0.0074 * x + 0.0025$$

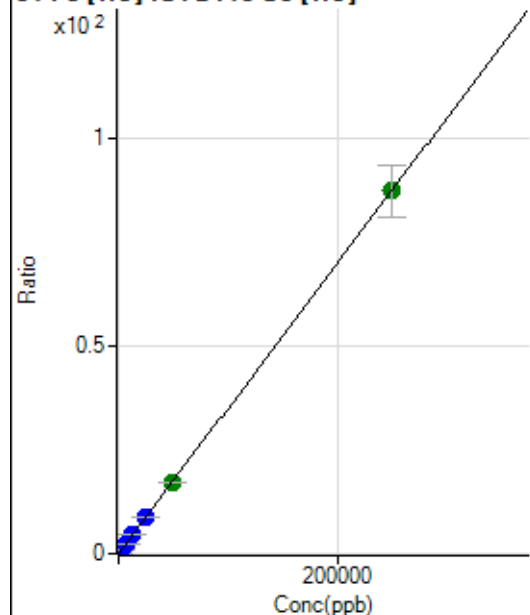
$$R = 1.0000$$

$$DL = 0.05915$$

$$BEC = 0.3394$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1104.51     | 0.0033  | P   | 7.8  |
| 2 | <input type="checkbox"/> | 50.000    | 52.224     | 7319.32     | 0.0216  | P   | 7.8  |
| 3 | <input type="checkbox"/> | 2500.000  | 2598.740   | 309152.17   | 0.9118  | P   | 0.7  |
| 4 | <input type="checkbox"/> | 6250.000  | 6548.239   | 768911.31   | 2.2924  | P   | 2.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 12912.140  | 1530212.04  | 4.5170  | P   | 1.5  |
| 6 | <input type="checkbox"/> | 25000.000 | 25666.153  | 3049894.89  | 8.9755  | P   | 1.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 48844.846  | 5737274.94  | 17.0781 | A   | 1.7  |
| 8 | <input type="checkbox"/> | 250000.00 | 250135.36  | 26018117.20 | 87.4434 | A   | 14.1 |

$$y = 3.4957E-004 * x + 0.0033$$

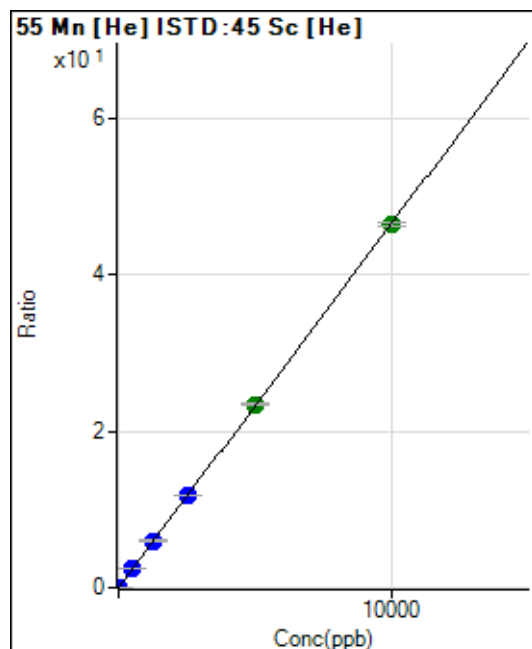
$$R = 1.0000$$

$$DL = 2.21$$

$$BEC = 9.491$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 73.33       | 0.0002  | P   | 0.8  |
| 2 | <input type="checkbox"/> | 1.000     | 1.173      | 1924.59     | 0.0057  | P   | 3.0  |
| 3 | <input type="checkbox"/> | 500.000   | 510.572    | 804958.14   | 2.3740  | P   | 1.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1290.885   | 2013205.56  | 6.0019  | P   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2533.510   | 3990388.06  | 11.7793 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5041.495   | 7964695.57  | 23.4397 | A   | 1.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9965.236   | 15565058.79 | 46.3316 | A   | 1.1  |
| 8 | <input type="checkbox"/> |           |            | 15691.79    | 0.0528  | P   | 15.9 |

$$y = 0.0046 * x + 2.2033E-004$$

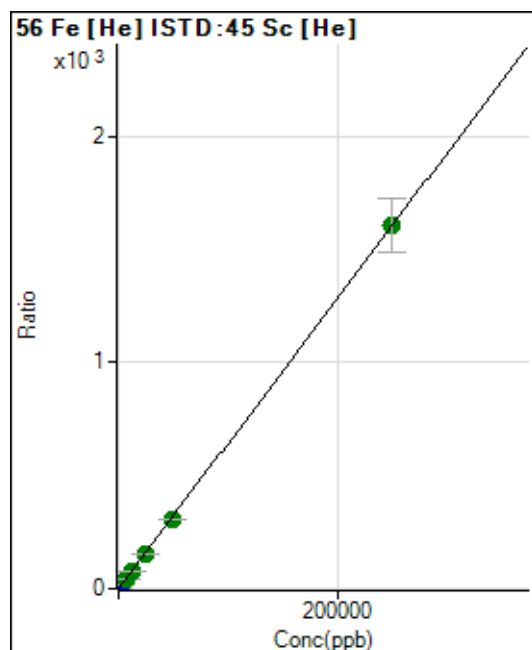
$$R = 1.0000$$

$$DL = 0.001175$$

$$BEC = 0.04739$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|-----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 5278.82     | 0.0159    | P   | 3.7  |
| 2 | <input type="checkbox"/> | 50.000    | 48.542     | 110750.58   | 0.3264    | P   | 1.4  |
| 3 | <input type="checkbox"/> | 2500.000  | 2503.699   | 5436999.83  | 16.0348   | P   | 1.6  |
| 4 | <input type="checkbox"/> | 6250.000  | 6168.661   | 13243707.70 | 39.4836   | A   | 2.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12265.722  | 26590591.57 | 78.4932   | A   | 1.7  |
| 6 | <input type="checkbox"/> | 25000.000 | 24357.564  | 52958815.07 | 155.8581  | A   | 1.4  |
| 7 | <input type="checkbox"/> | 50000.000 | 48144.720  | 103489302.3 | 308.0508  | A   | 1.1  |
| 8 | <input type="checkbox"/> | 250000.00 | 250449.01  | 476441032.8 | 1,602.414 | A   | 14.9 |

$$y = 0.0064 * x + 0.0159$$

$$R = 1.0000$$

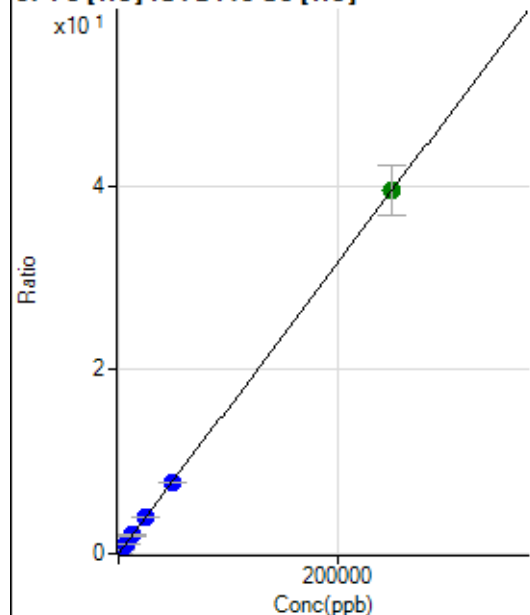
$$DL = 0.272$$

$$BEC = 2.479$$

Weight: <None>

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      | 340.75      | 0.0010  | P   | 22.8 |
| 2 | <input type="checkbox"/> | 50.000    | 49.372     | 2991.10     | 0.0088  | P   | 2.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2540.462   | 136291.54   | 0.4019  | P   | 1.7  |
| 4 | <input type="checkbox"/> | 6250.000  | 6359.176   | 336959.12   | 1.0046  | P   | 2.3  |
| 5 | <input type="checkbox"/> | 12500.000 | 12650.821  | 676674.73   | 1.9975  | P   | 1.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 25043.568  | 1343301.30  | 3.9532  | P   | 1.0  |
| 7 | <input type="checkbox"/> | 50000.000 | 49192.177  | 2608331.95  | 7.7642  | P   | 1.4  |
| 8 | <input type="checkbox"/> | 250000.00 | 250146.53  | 11748844.01 | 39.4773 | A   | 13.8 |

$$y = 1.5781\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

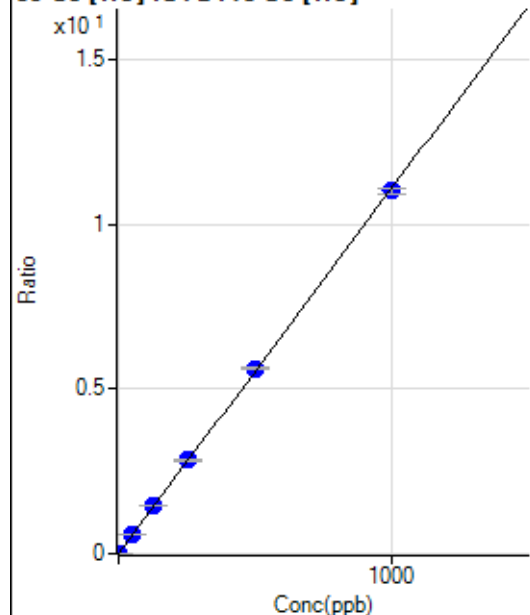
$$DL = 4.448$$

$$BEC = 6.495$$

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      | 152.23     | 0.0005  | P   | 9.1  |
| 2 | <input type="checkbox"/> | 1.000    | 0.981      | 3849.43    | 0.0113  | P   | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.938     | 195642.76  | 0.5770  | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 130.738    | 486933.72  | 1.4517  | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 256.302    | 963958.27  | 2.8455  | P   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 508.049    | 1916483.57 | 5.6400  | P   | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.586    | 3705377.20 | 11.0297 | P   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 6704.93    | 0.0225  | P   | 14.8 |

$$y = 0.0111 * x + 4.5740\text{E-}004$$

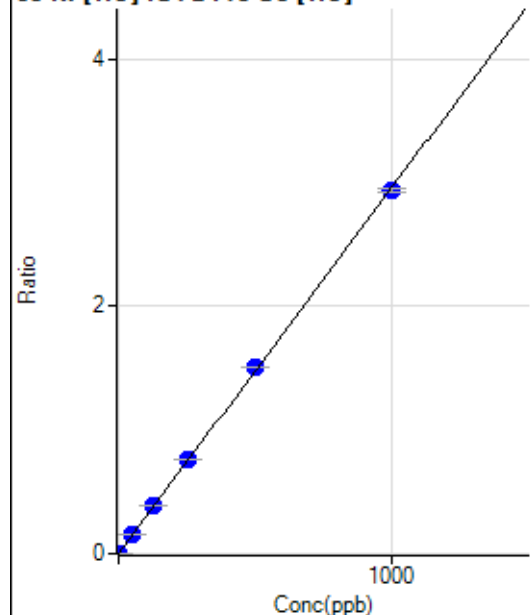
$$R = 0.9999$$

$$DL = 0.01131$$

$$BEC = 0.04121$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 42.22     | 0.0001 | P   | 25.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.083      | 1128.94   | 0.0033 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 52.191     | 52321.78  | 0.1543 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 131.145    | 129991.60 | 0.3875 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 256.690    | 256928.17 | 0.7584 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 510.420    | 512415.91 | 1.5080 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.240    | 984779.89 | 2.9313 | P   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 6473.70   | 0.0218 | P   | 16.6 |

$$y = 0.0030 * x + 1.2689E-004$$

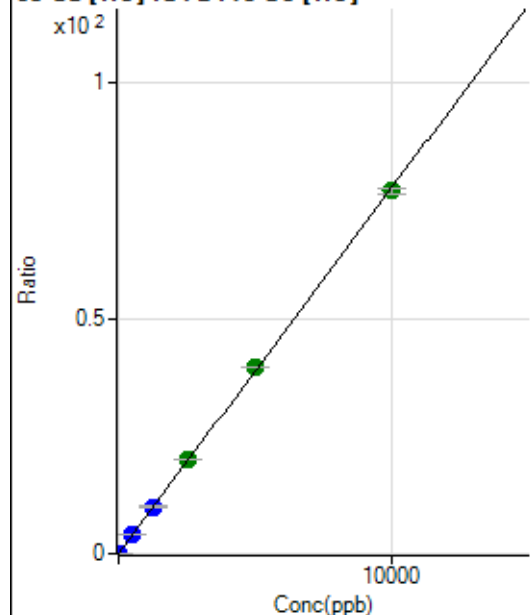
$$R = 0.9999$$

$$DL = 0.03275$$

$$BEC = 0.04295$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1565.24     | 0.0047  | P   | 3.2  |
| 2 | <input type="checkbox"/> | 2.000     | 2.754      | 8860.93     | 0.0261  | P   | 2.0  |
| 3 | <input type="checkbox"/> | 500.000   | 513.477    | 1355329.52  | 3.9972  | P   | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1284.569   | 3351805.40  | 9.9927  | P   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2583.714   | 6807175.38  | 20.0941 | A   | 1.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5101.372   | 13479881.49 | 39.6698 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9923.390   | 25922382.78 | 77.1628 | A   | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 13041.11    | 0.0438  | P   | 13.6 |

$$y = 0.0078 * x + 0.0047$$

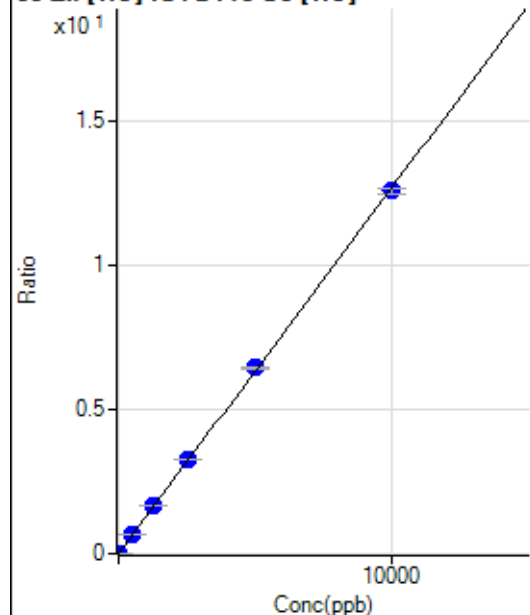
$$R = 0.9999$$

$$DL = 0.05772$$

$$BEC = 0.6049$$

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      | 295.56     | 0.0009  | P   | 17.9 |
| 2 | <input type="checkbox"/> | 2.000     | 3.149      | 1654.55    | 0.0049  | P   | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 517.696    | 222727.43  | 0.6569  | P   | 1.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1312.806   | 558250.06  | 1.6644  | P   | 2.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2567.274   | 1102308.03 | 3.2539  | P   | 1.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 5094.300   | 2193773.46 | 6.4560  | P   | 0.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9927.296   | 4226172.82 | 12.5799 | P   | 1.3  |
| 8 | <input type="checkbox"/> |           |            | 15110.10   | 0.0507  | P   | 12.6 |

$$y = 0.0013 * x + 8.8722E-004$$

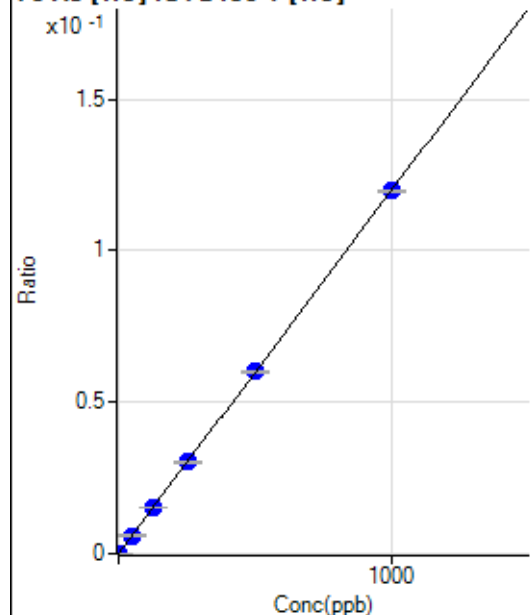
$$R = 0.9999$$

$$DL = 0.3766$$

$$BEC = 0.7002$$

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      | 11.11     | 0.0000 | P   | 58.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.937      | 291.36    | 0.0001 | P   | 6.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.008     | 14895.29  | 0.0060 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 127.140    | 37602.67  | 0.0152 | P   | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 252.254    | 75333.42  | 0.0302 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 500.897    | 150385.96 | 0.0600 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.720    | 294203.39 | 0.1197 | P   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 110.50    | 0.0000 | P   | 9.9  |

$$y = 1.1983E-004 * x + 4.5622E-006$$

$$R = 1.0000$$

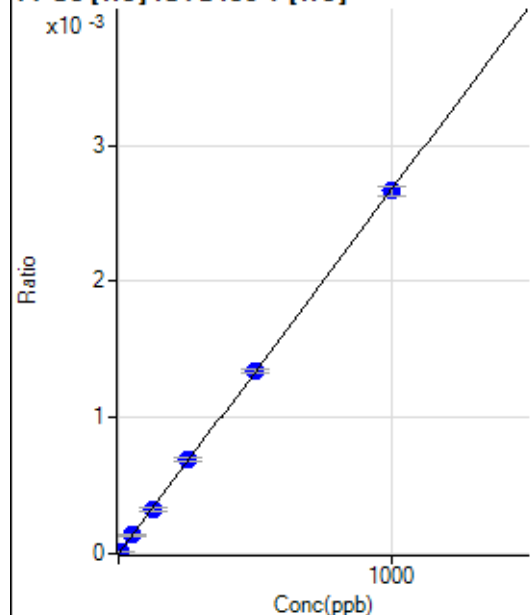
$$DL = 0.06663$$

$$BEC = 0.03807$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|---------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P   |       |
| 2 | <input type="checkbox"/> | 5.000    | 4.668      | 31.11   | 0.0000 | P   | 6.5   |
| 3 | <input type="checkbox"/> | 50.000   | 50.367     | 334.45  | 0.0001 | P   | 7.7   |
| 4 | <input type="checkbox"/> | 125.000  | 121.007    | 797.81  | 0.0003 | P   | 8.5   |
| 5 | <input type="checkbox"/> | 250.000  | 257.422    | 1714.57 | 0.0007 | P   | 4.2   |
| 6 | <input type="checkbox"/> | 500.000  | 502.695    | 3365.98 | 0.0013 | P   | 2.5   |
| 7 | <input type="checkbox"/> | 1000.000 | 997.280    | 6552.66 | 0.0027 | P   | 2.7   |
| 8 | <input type="checkbox"/> |          |            | 1.11    | 0.0000 | P   | 173.2 |

$$y = 2.6729\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

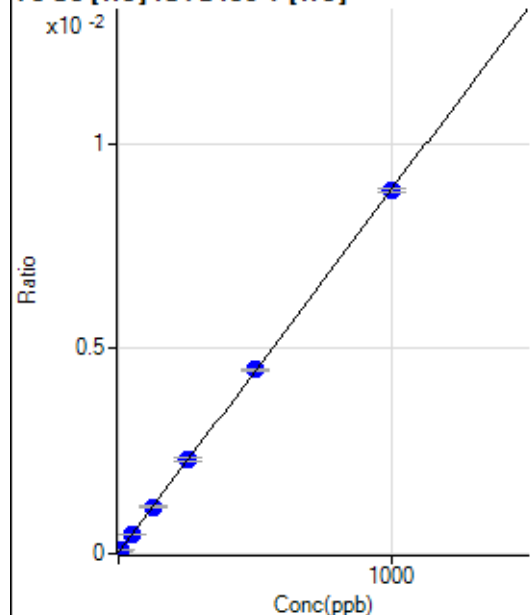
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 74.08    | 0.0000 | P   | 9.6  |
| 2 | <input type="checkbox"/> | 5.000    | 5.158      | 189.51   | 0.0001 | P   | 13.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.951     | 1173.51  | 0.0005 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 126.288    | 2833.01  | 0.0011 | P   | 3.1  |
| 5 | <input type="checkbox"/> | 250.000  | 255.924    | 5720.29  | 0.0023 | P   | 3.5  |
| 6 | <input type="checkbox"/> | 500.000  | 504.209    | 11256.86 | 0.0045 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.255    | 21752.11 | 0.0088 | P   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 87.65    | 0.0000 | P   | 12.0 |

$$y = 8.8513\text{E-}006 * x + 3.0354\text{E-}005$$

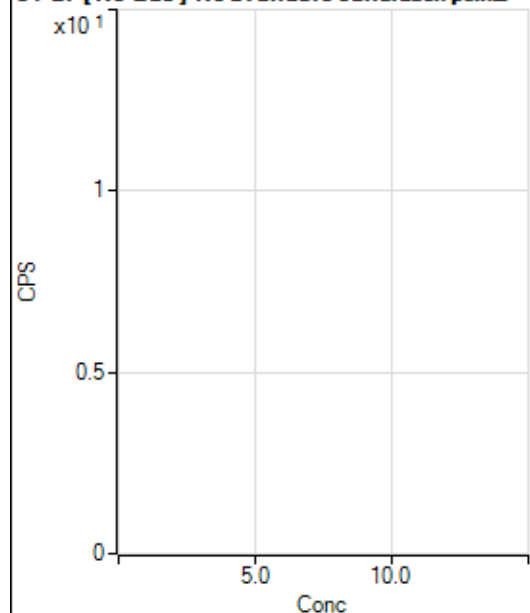
$$R = 1.0000$$

$$DL = 0.9842$$

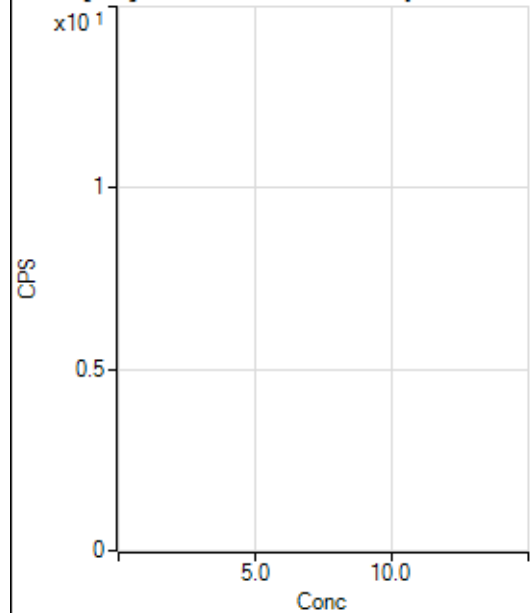
$$BEC = 3.429$$

Weight: &lt;None&gt;

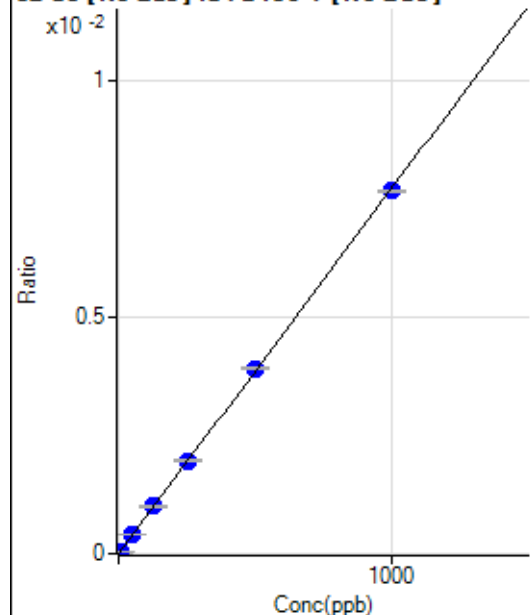
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 3514.41 |       | P        | 7.0  |
| 2 | <input type="checkbox"/> |       |            | 3711.70 |       | P        | 2.9  |
| 3 | <input type="checkbox"/> |       |            | 3775.60 |       | P        | 11.1 |
| 4 | <input type="checkbox"/> |       |            | 3544.98 |       | P        | 0.9  |
| 5 | <input type="checkbox"/> |       |            | 3553.31 |       | P        | 2.2  |
| 6 | <input type="checkbox"/> |       |            | 3419.94 |       | P        | 2.5  |
| 7 | <input type="checkbox"/> |       |            | 3656.11 |       | P        | 2.7  |
| 8 | <input type="checkbox"/> |       |            | 3450.52 |       | P        | 4.2  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 63.40 |       | P        | 18.2 |
| 2 | <input type="checkbox"/> |       |            | 66.73 |       | P        | 8.7  |
| 3 | <input type="checkbox"/> |       |            | 56.72 |       | P        | 66.8 |
| 4 | <input type="checkbox"/> |       |            | 66.73 |       | P        | 8.7  |
| 5 | <input type="checkbox"/> |       |            | 46.71 |       | P        | 32.7 |
| 6 | <input type="checkbox"/> |       |            | 53.39 |       | P        | 28.6 |
| 7 | <input type="checkbox"/> |       |            | 66.73 |       | P        | 48.2 |
| 8 | <input type="checkbox"/> |       |            | 70.07 |       | P        | 49.5 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD    |
|---|--------------------------|----------|------------|----------|--------|-----|--------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -19.89   | 0.0000 | P   | -50.9  |
| 2 | <input type="checkbox"/> | 5.000    | 5.015      | 432.45   | 0.0000 | P   | 5.4    |
| 3 | <input type="checkbox"/> | 50.000   | 51.020     | 4666.37  | 0.0004 | P   | 2.1    |
| 4 | <input type="checkbox"/> | 125.000  | 130.166    | 11694.46 | 0.0010 | P   | 3.2    |
| 5 | <input type="checkbox"/> | 250.000  | 255.321    | 23460.58 | 0.0020 | P   | 1.2    |
| 6 | <input type="checkbox"/> | 500.000  | 508.182    | 46673.36 | 0.0039 | P   | 0.6    |
| 7 | <input type="checkbox"/> | 1000.000 | 993.882    | 90363.34 | 0.0077 | P   | 0.7    |
| 8 | <input type="checkbox"/> |          |            | -6.88    | 0.0000 | P   | -1292. |

$$y = 7.7058E-006 * x - 1.7292E-006$$

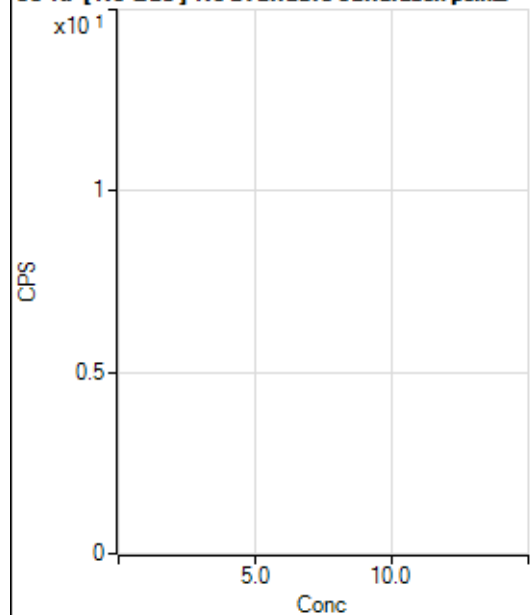
$$R = 0.9999$$

$$DL = 0.3425$$

$$BEC = -0.2244$$

Weight: &lt;None&gt;

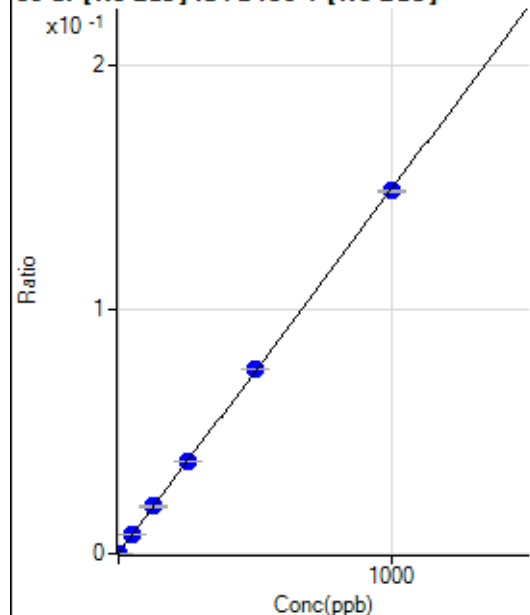
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 765.59 |       | P   | 3.0  |
| 2 | <input type="checkbox"/> |       |            | 728.91 |       | P   | 2.3  |
| 3 | <input type="checkbox"/> |       |            | 681.14 |       | P   | 11.6 |
| 4 | <input type="checkbox"/> |       |            | 757.81 |       | P   | 6.5  |
| 5 | <input type="checkbox"/> |       |            | 731.14 |       | P   | 8.5  |
| 6 | <input type="checkbox"/> |       |            | 726.70 |       | P   | 9.3  |
| 7 | <input type="checkbox"/> |       |            | 732.25 |       | P   | 8.7  |
| 8 | <input type="checkbox"/> |       |            | 723.36 |       | P   | 12.5 |



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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1094.52    | 0.0001 | P   | 6.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.041      | 2933.70    | 0.0003 | P   | 7.2 |
| 3 | <input type="checkbox"/> | 50.000   | 50.789     | 91624.10   | 0.0077 | P   | 2.1 |
| 4 | <input type="checkbox"/> | 125.000  | 130.109    | 228219.37  | 0.0195 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 250.000  | 253.166    | 452707.90  | 0.0379 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 506.578    | 903854.36  | 0.0758 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.242    | 1756529.44 | 0.1488 | P   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 10456.82   | 0.0009 | P   | 2.2 |

$$y = 1.4946\text{E-}004 * x + 9.4912\text{E-}005$$

R = 1.0000

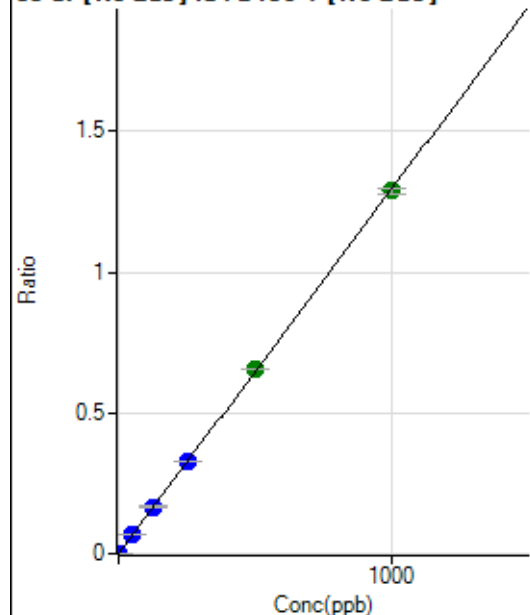
DL = 0.1161

BEC = 0.635

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.11      | 0.0000 | P   | 10.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.979      | 14949.84    | 0.0013 | P   | 3.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.653     | 781752.35   | 0.0656 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 128.698    | 1945402.54  | 0.1666 | P   | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 251.498    | 3884858.33  | 0.3255 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 507.101    | 7825719.10  | 0.6563 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.580    | 15205968.05 | 1.2885 | A   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 79030.49    | 0.0070 | P   | 1.3  |

$$y = 0.0013 * x + 9.6346\text{E-}006$$

R = 1.0000

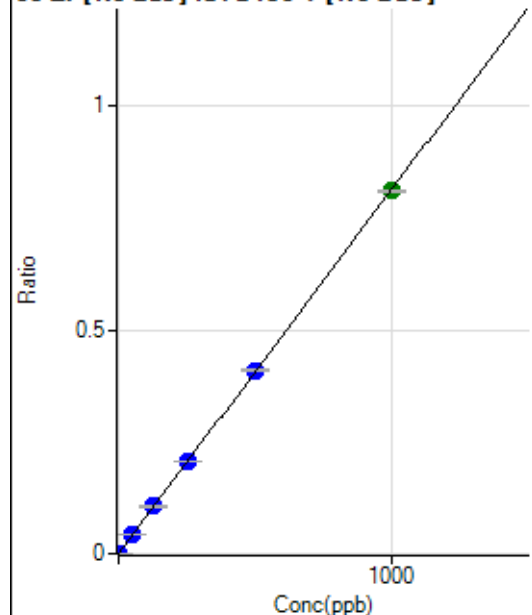
DL = 0.002429

BEC = 0.007444

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      | 558.36     | 0.0000 | P   | 6.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.969      | 9789.72    | 0.0008 | P   | 5.3 |
| 3 | <input type="checkbox"/> | 50.000   | 50.562     | 490621.92  | 0.0412 | P   | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 129.704    | 1232060.81 | 0.1055 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 250.000  | 252.885    | 2454096.67 | 0.2056 | P   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 503.768    | 4883517.12 | 0.4096 | P   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.779    | 9563408.38 | 0.8104 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 3000.40    | 0.0003 | P   | 3.5 |

$$y = 8.1293\text{E-}004 * x + 4.8438\text{E-}005$$

$$R = 1.0000$$

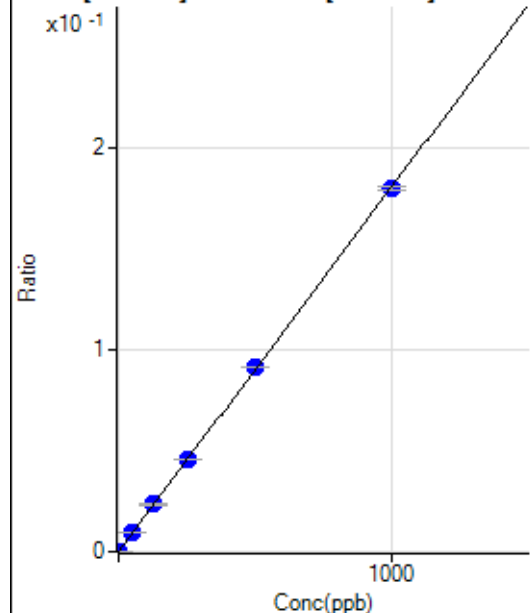
$$DL = 0.01082$$

$$BEC = 0.05959$$

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      | 108.34     | 0.0000 | P   | 41.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.929      | 2072.44    | 0.0002 | P   | 4.1  |
| 3 | <input type="checkbox"/> | 50.000   | 50.234     | 108082.54  | 0.0091 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 129.616    | 272979.51  | 0.0234 | P   | 3.0  |
| 5 | <input type="checkbox"/> | 250.000  | 253.609    | 545712.58  | 0.0457 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 506.131    | 1087973.68 | 0.0912 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.444    | 2117719.45 | 0.1794 | P   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 636.14     | 0.0001 | P   | 4.2  |

$$y = 1.8026\text{E-}004 * x + 9.4192\text{E-}006$$

$$R = 1.0000$$

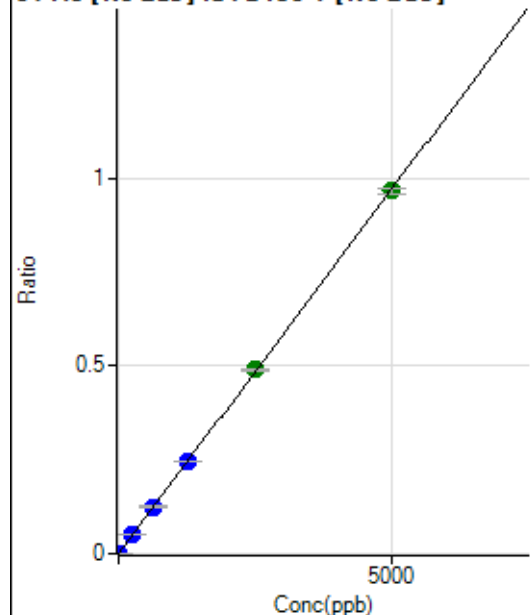
$$DL = 0.06526$$

$$BEC = 0.05225$$

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 | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 197.23      | 0.0000 | P   | 16.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.904      | 11357.56    | 0.0010 | P   | 4.0  |
| 3 | <input type="checkbox"/> | 250.000  | 252.751    | 585626.77   | 0.0491 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 643.951    | 1461348.44  | 0.1251 | P   | 2.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1260.981   | 2923876.22  | 0.2450 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2529.338   | 5859036.98  | 0.4914 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.079   | 11417745.39 | 0.9675 | A   | 1.6  |
| 8 | <input type="checkbox"/> |          |            | 4739.80     | 0.0004 | P   | 1.3  |

$$y = 1.9427\text{E-}004 * x + 1.7093\text{E-}005$$

$$R = 1.0000$$

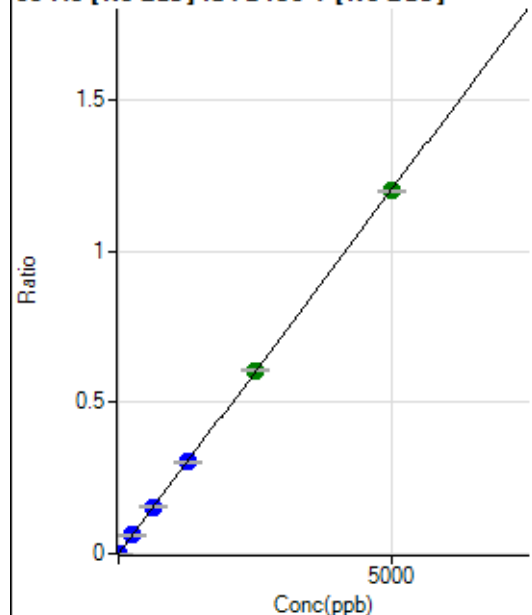
$$DL = 0.04446$$

$$BEC = 0.08798$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78       | 0.0000 | P   | 63.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.891      | 13851.52    | 0.0012 | P   | 1.5  |
| 3 | <input type="checkbox"/> | 250.000  | 252.575    | 725328.78   | 0.0608 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 645.048    | 1814609.94  | 0.1554 | P   | 2.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1257.684   | 3615159.50  | 0.3029 | P   | 1.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2520.084   | 7237002.59  | 0.6070 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4985.402   | 14170769.41 | 1.2008 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 6332.16     | 0.0006 | P   | 3.0  |

$$y = 2.4085\text{E-}004 * x + 4.5632\text{E-}006$$

$$R = 1.0000$$

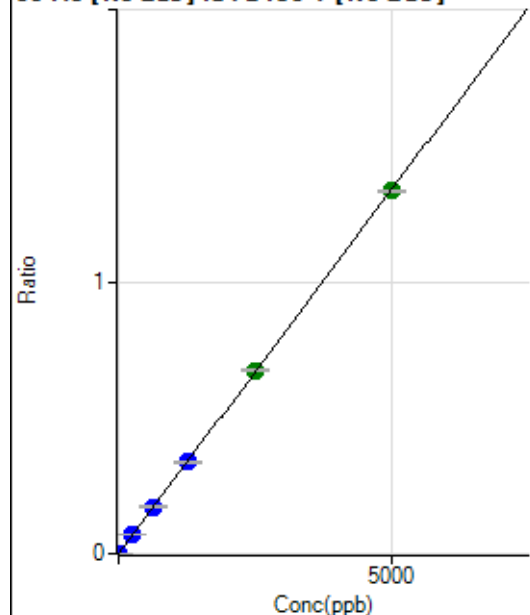
$$DL = 0.03605$$

$$BEC = 0.01895$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45       | 0.0000 | P   | 29.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.991      | 15714.58    | 0.0013 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 250.000  | 253.313    | 808387.54   | 0.0678 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 625.000  | 644.396    | 2014331.73  | 0.1725 | P   | 3.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1257.984   | 4018389.20  | 0.3367 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2521.109   | 8045592.71  | 0.6748 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4984.859   | 15745312.16 | 1.3342 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 7994.12     | 0.0007 | P   | 4.3  |

$$y = 2.6764\text{E-}004 * x + 6.0166\text{E-}006$$

$$R = 1.0000$$

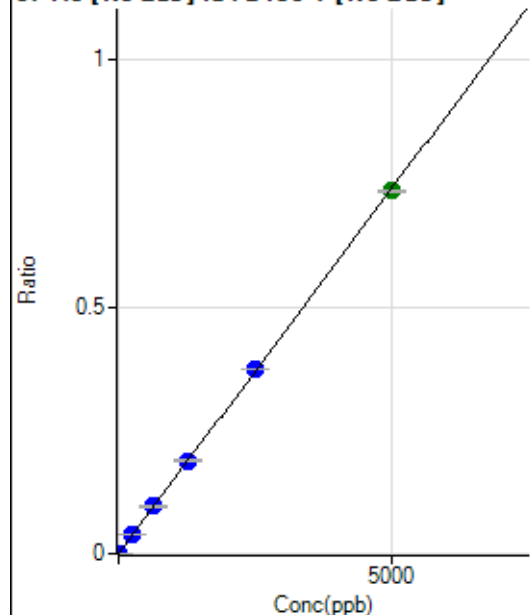
$$DL = 0.01999$$

$$BEC = 0.02248$$

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 | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 33.33      | 0.0000 | P   | 74.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.854      | 8436.04    | 0.0007 | P   | 2.0  |
| 3 | <input type="checkbox"/> | 250.000  | 256.101    | 451298.71  | 0.0379 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 650.450    | 1122682.47 | 0.0961 | P   | 3.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1271.538   | 2242777.24 | 0.1879 | P   | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2537.514   | 4471686.64 | 0.3750 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4972.372   | 8673040.13 | 0.7349 | A   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 4184.06    | 0.0004 | P   | 2.4  |

$$y = 1.4779\text{E-}004 * x + 2.8814\text{E-}006$$

$$R = 0.9999$$

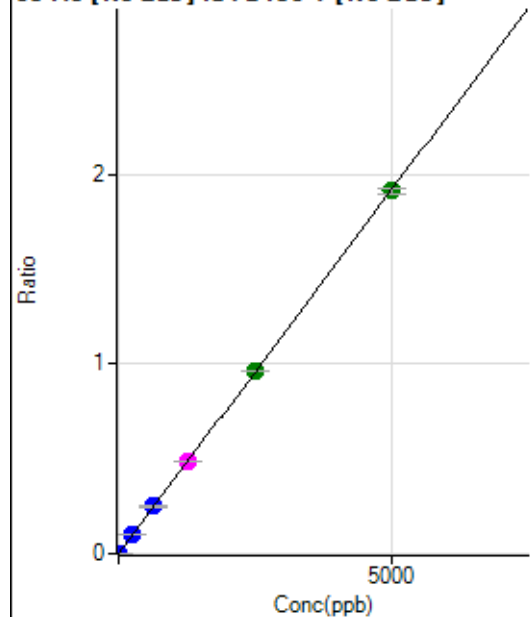
$$DL = 0.04374$$

$$BEC = 0.0195$$

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 | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78      | 0.0000 | P   | 12.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.892      | 22081.38    | 0.0019 | P   | 2.9  |
| 3 | <input type="checkbox"/> | 250.000  | 252.823    | 1156436.35  | 0.0970 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 648.322    | 2904924.56  | 0.2487 | P   | 2.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1268.043   | 5805312.67  | 0.4864 | M   | 1.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2510.596   | 11483414.23 | 0.9631 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4987.135   | 22577595.47 | 1.9131 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 10162.22    | 0.0009 | P   | 1.8  |

$$y = 3.8361E-004 * x + 8.9146E-006$$

$$R = 1.0000$$

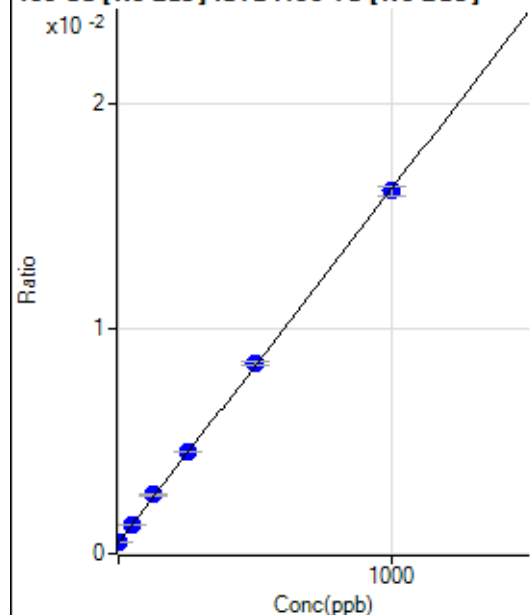
$$DL = 0.008465$$

$$BEC = 0.02324$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4656.45   | 0.0005 | P   | 4.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.215      | 4917.65   | 0.0005 | P   | 7.3 |
| 3 | <input type="checkbox"/> | 50.000   | 51.575     | 12580.89  | 0.0013 | P   | 2.7 |
| 4 | <input type="checkbox"/> | 125.000  | 134.691    | 24808.36  | 0.0026 | P   | 1.7 |
| 5 | <input type="checkbox"/> | 250.000  | 257.440    | 44328.08  | 0.0045 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 504.664    | 82606.48  | 0.0084 | P   | 2.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.518    | 157855.52 | 0.0161 | P   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 4814.83   | 0.0005 | P   | 8.4 |

$$y = 1.5705E-005 * x + 4.9167E-004$$

$$R = 0.9999$$

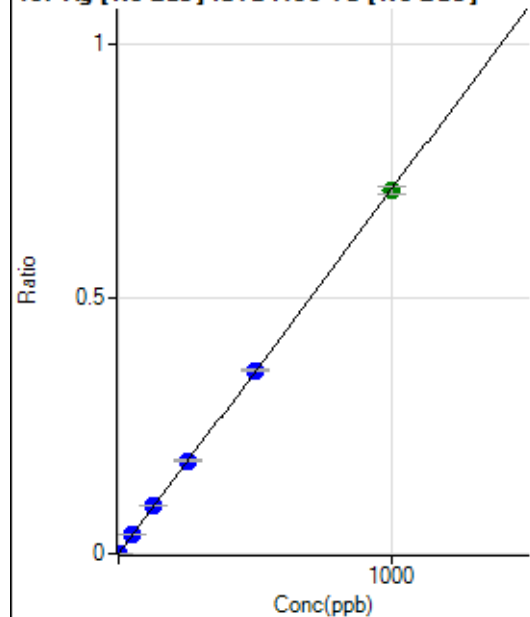
$$DL = 3.919$$

$$BEC = 31.31$$

Weight: &lt;None&gt;

Min Conc: 0

107 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      | 86.11      | 0.0000 | P   | 56.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.962      | 6699.00    | 0.0007 | P   | 5.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.633     | 356064.54  | 0.0368 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 132.447    | 898554.39  | 0.0945 | P   | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 255.723    | 1783366.88 | 0.1824 | P   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 502.890    | 3521148.43 | 0.3588 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.112    | 6963181.67 | 0.7106 | A   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 3411.62    | 0.0004 | P   | 4.9  |

$$y = 7.1340\text{E-}004 * x + 9.0832\text{E-}006$$

$$R = 1.0000$$

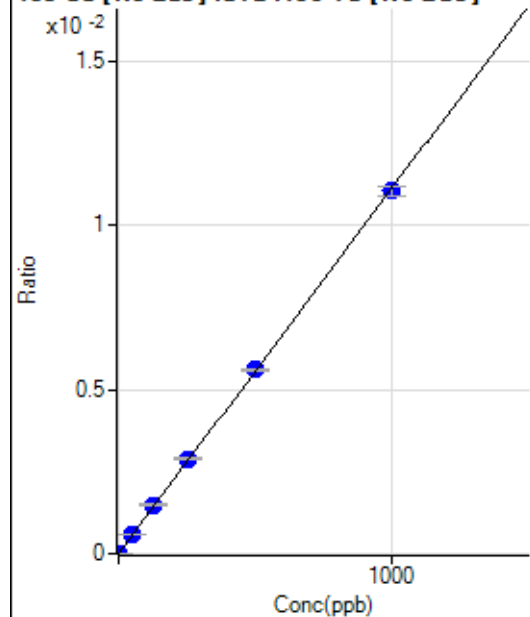
$$DL = 0.02156$$

$$BEC = 0.01273$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67     | 0.0000 | P   | 43.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.972      | 120.84    | 0.0000 | P   | 13.1 |
| 3 | <input type="checkbox"/> | 50.000   | 51.152     | 5505.30   | 0.0006 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 132.264    | 13977.83  | 0.0015 | P   | 3.4  |
| 5 | <input type="checkbox"/> | 250.000  | 259.882    | 28221.10  | 0.0029 | P   | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 504.652    | 55005.97  | 0.0056 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.238    | 108169.62 | 0.0110 | P   | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 118.06    | 0.0000 | P   | 24.0 |

$$y = 1.1102\text{E-}005 * x + 1.7612\text{E-}006$$

$$R = 0.9999$$

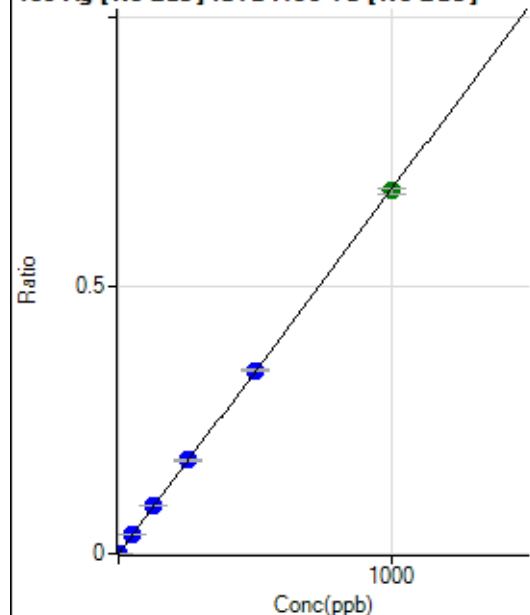
$$DL = 0.2076$$

$$BEC = 0.1586$$

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      | 33.33      | 0.0000 | P   | 25.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 6518.33    | 0.0007 | P   | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.628     | 339313.58  | 0.0351 | P   | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 132.160    | 854509.82  | 0.0899 | P   | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 256.351    | 1703988.04 | 0.1743 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 503.166    | 3357961.45 | 0.3422 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.853    | 6635768.16 | 0.6772 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 3100.41    | 0.0003 | P   | 2.8  |

$$y = 6.7999\text{E-}004 * x + 3.5206\text{E-}006$$

$$R = 1.0000$$

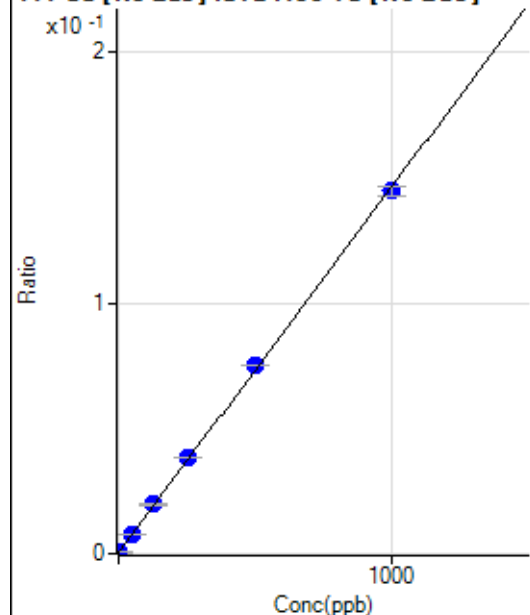
$$DL = 0.003918$$

$$BEC = 0.005178$$

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      | 3258.96    | 0.0003 | P   | 4.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.017      | 4742.58    | 0.0005 | P   | 7.0 |
| 3 | <input type="checkbox"/> | 50.000   | 52.375     | 77175.66   | 0.0080 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 133.055    | 187865.83  | 0.0198 | P   | 2.5 |
| 5 | <input type="checkbox"/> | 250.000  | 259.379    | 373293.96  | 0.0382 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 513.295    | 738397.11  | 0.0752 | P   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.882    | 1418470.67 | 0.1448 | P   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 3943.32    | 0.0004 | P   | 6.4 |

$$y = 1.4590\text{E-}004 * x + 3.4411\text{E-}004$$

$$R = 0.9998$$

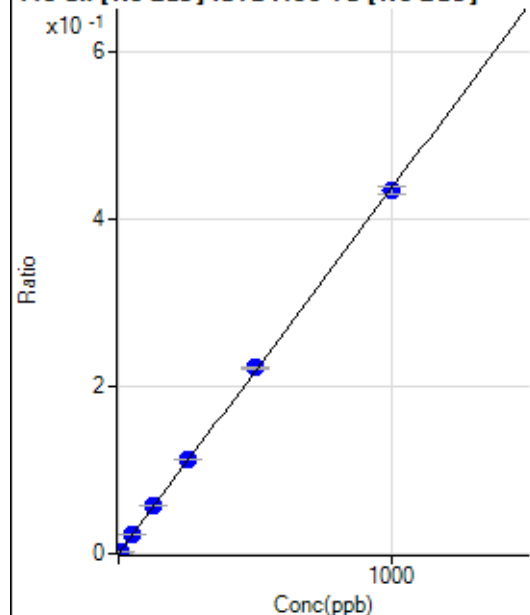
$$DL = 0.2916$$

$$BEC = 2.359$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 313.90     | 0.0000 | P   | 17.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.890      | 20871.45   | 0.0022 | P   | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 51.687     | 218317.96  | 0.0226 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 131.574    | 546309.84  | 0.0575 | P   | 3.0  |
| 5 | <input type="checkbox"/> | 250.000  | 257.556    | 1099119.74 | 0.1124 | P   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 508.096    | 2176656.84 | 0.2218 | P   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.158    | 4247413.98 | 0.4335 | P   | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 3022.65    | 0.0003 | P   | 5.8  |

$$y = 4.3644\text{E-}004 * x + 3.3133\text{E-}005$$

$$R = 0.9999$$

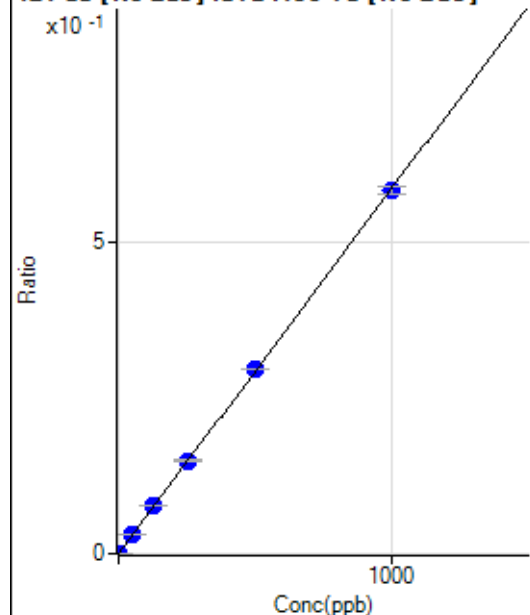
$$DL = 0.03972$$

$$BEC = 0.07592$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 58.34      | 0.0000 | P   | 51.7 |
| 2 | <input type="checkbox"/> | 2.000    | 1.909      | 10809.97   | 0.0011 | P   | 2.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.427     | 290764.38  | 0.0301 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 131.439    | 731036.22  | 0.0769 | P   | 3.1  |
| 5 | <input type="checkbox"/> | 250.000  | 255.568    | 1461314.18 | 0.1495 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 506.726    | 2909000.22 | 0.2964 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.369    | 5698998.74 | 0.5816 | P   | 2.2  |
| 8 | <input type="checkbox"/> |          |            | 4373.03    | 0.0005 | P   | 1.6  |

$$y = 5.8492\text{E-}004 * x + 6.1655\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01635$$

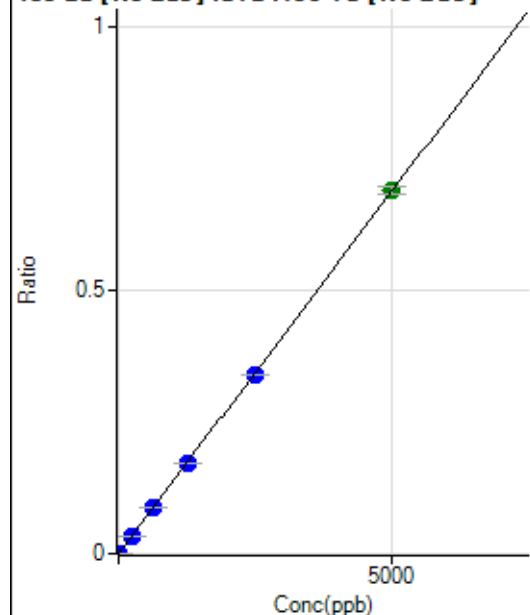
$$BEC = 0.01054$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|------------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11      | 0.0000 | P   | 114.5 |
| 2 | <input type="checkbox"/> | 10.000   | 9.739      | 12886.84   | 0.0013 | P   | 1.8   |
| 3 | <input type="checkbox"/> | 250.000  | 249.991    | 331699.20  | 0.0343 | P   | 0.8   |
| 4 | <input type="checkbox"/> | 625.000  | 637.592    | 832315.25  | 0.0875 | P   | 2.9   |
| 5 | <input type="checkbox"/> | 1250.000 | 1240.673   | 1665009.20 | 0.1703 | P   | 0.3   |
| 6 | <input type="checkbox"/> | 2500.000 | 2475.896   | 3336115.44 | 0.3399 | P   | 0.5   |
| 7 | <input type="checkbox"/> | 5000.000 | 5012.811   | 6743428.19 | 0.6882 | A   | 2.1   |
| 8 | <input type="checkbox"/> |          |            | 11204.82   | 0.0012 | P   | 1.9   |

$$y = 1.3729E-004 * x + 1.1705E-006$$

$$R = 1.0000$$

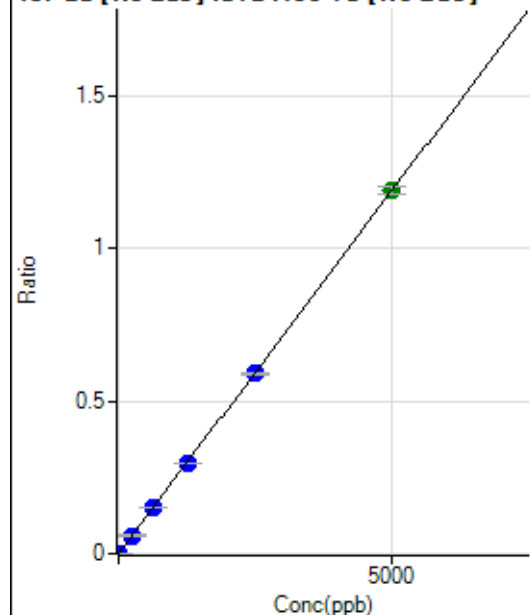
$$DL = 0.02929$$

$$BEC = 0.008526$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.55       | 0.0000 | P   | 15.8 |
| 2 | <input type="checkbox"/> | 10.000   | 9.750      | 22307.18    | 0.0023 | P   | 2.2  |
| 3 | <input type="checkbox"/> | 250.000  | 251.433    | 576637.15   | 0.0597 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 636.950    | 1437168.23  | 0.1512 | P   | 3.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1254.022   | 2908980.12  | 0.2976 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2485.323   | 5788258.55  | 0.5898 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 5000.000 | 5004.768   | 11636971.70 | 1.1877 | A   | 2.2  |
| 8 | <input type="checkbox"/> |          |            | 19708.92    | 0.0021 | P   | 4.5  |

$$y = 2.3731E-004 * x + 3.2262E-006$$

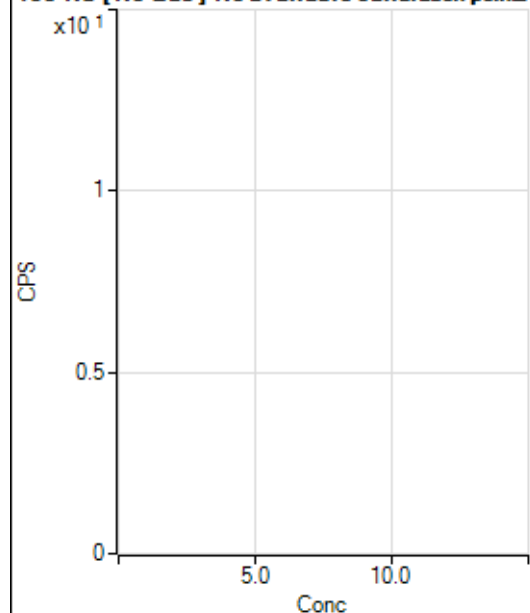
$$R = 1.0000$$

$$DL = 0.006437$$

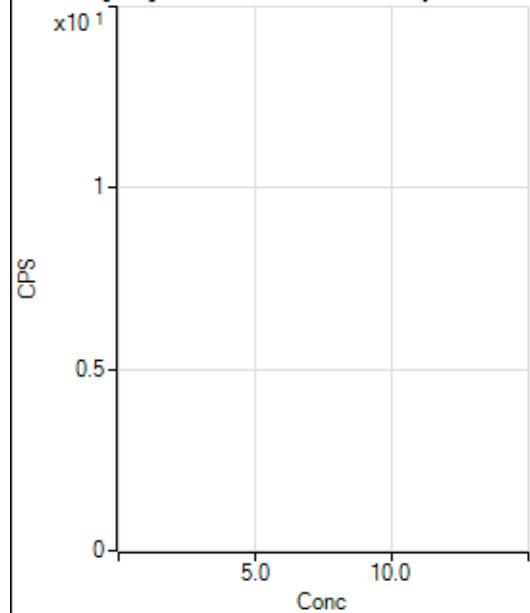
$$BEC = 0.01359$$

Weight: &lt;None&gt;

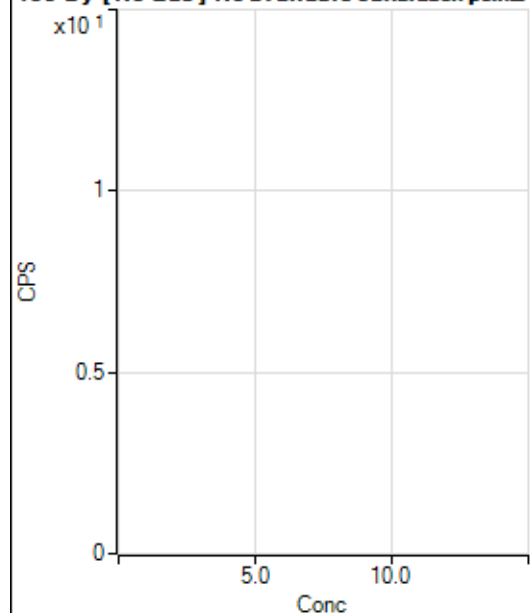
Min Conc: 0

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

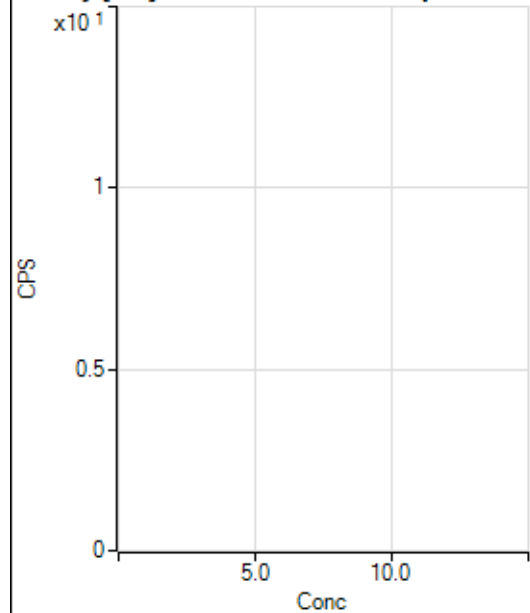
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6  |
| 3 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 57.7  |
| 4 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 17.3  |
| 5 | <input type="checkbox"/> |       |            | 93.33  |       | P        | 18.9  |
| 6 | <input type="checkbox"/> |       |            | 231.12 |       | P        | 20.3  |
| 7 | <input type="checkbox"/> |       |            | 295.57 |       | P        | 12.4  |
| 8 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 67.3  |

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

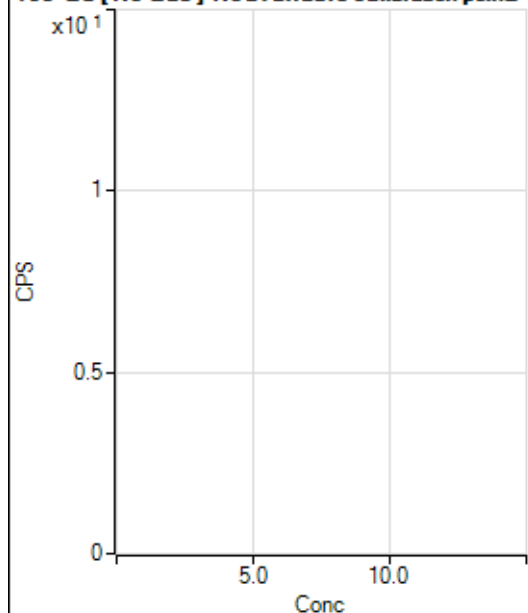
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 86.6  |
| 2 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 3 | <input type="checkbox"/> |       |            | 6.67  |       | P        | 50.0  |
| 4 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 68.7  |
| 5 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 57.8  |
| 6 | <input type="checkbox"/> |       |            | 32.22 |       | P        | 62.4  |
| 7 | <input type="checkbox"/> |       |            | 48.89 |       | P        | 14.2  |
| 8 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 33.3  |

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

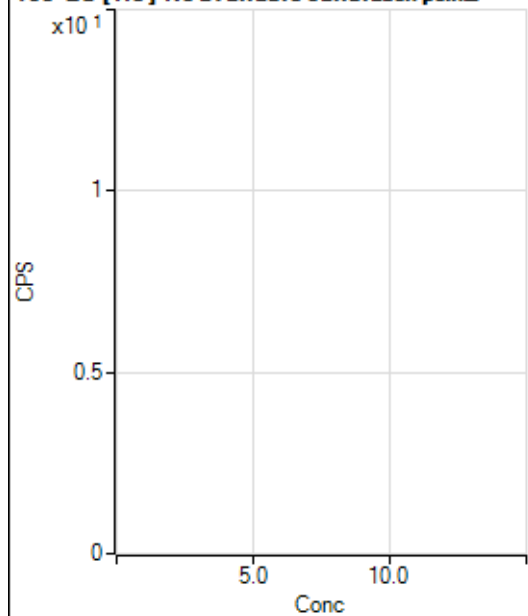
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.89  |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            | 13.89  |       | P        | 91.6 |
| 3 | <input type="checkbox"/> |       |            | 13.89  |       | P        | 69.3 |
| 4 | <input type="checkbox"/> |       |            | 30.55  |       | P        | 15.7 |
| 5 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 35.3 |
| 6 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 36.1 |
| 7 | <input type="checkbox"/> |       |            | 216.68 |       | P        | 21.4 |
| 8 | <input type="checkbox"/> |       |            | 386.13 |       | P        | 11.9 |

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

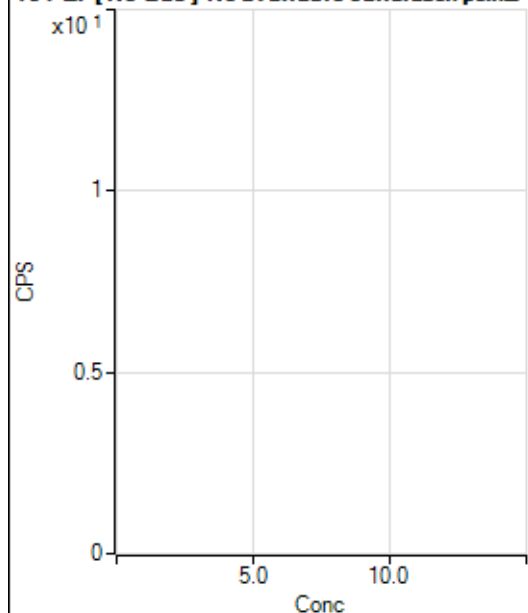
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 78.1 |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 57.3 |
| 3 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 32.7 |
| 4 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 28.6 |
| 5 | <input type="checkbox"/> |       |            | 32.22  |       | P        | 6.0  |
| 6 | <input type="checkbox"/> |       |            | 63.33  |       | P        | 26.3 |
| 7 | <input type="checkbox"/> |       |            | 114.45 |       | P        | 10.2 |
| 8 | <input type="checkbox"/> |       |            | 260.01 |       | P        | 18.9 |

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

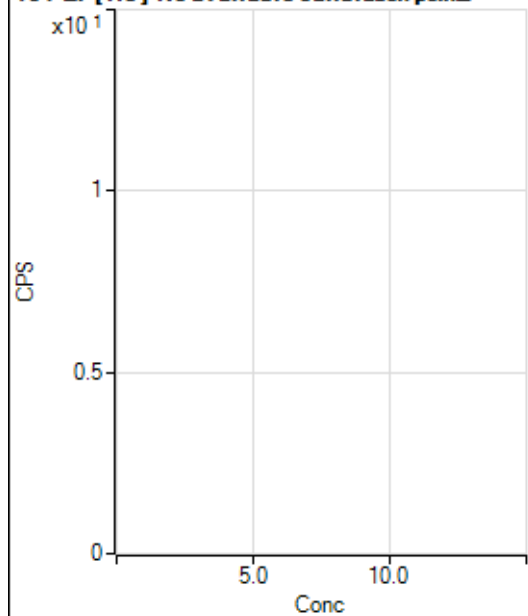
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 30.0 |
| 2 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 24.8 |
| 3 | <input type="checkbox"/> |       |            | 130.56 |       | P        | 32.1 |
| 4 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 52.8 |
| 5 | <input type="checkbox"/> |       |            | 136.12 |       | P        | 31.4 |
| 6 | <input type="checkbox"/> |       |            | 158.34 |       | P        | 19.0 |
| 7 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 20.8 |
| 8 | <input type="checkbox"/> |       |            | 550.03 |       | P        | 22.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 117.78 |       | P        | 13.4 |
| 2 | <input type="checkbox"/> |       |            | 112.22 |       | P        | 17.4 |
| 3 | <input type="checkbox"/> |       |            | 142.23 |       | P        | 6.8  |
| 4 | <input type="checkbox"/> |       |            | 141.11 |       | P        | 19.2 |
| 5 | <input type="checkbox"/> |       |            | 124.45 |       | P        | 18.8 |
| 6 | <input type="checkbox"/> |       |            | 130.00 |       | P        | 11.7 |
| 7 | <input type="checkbox"/> |       |            | 180.00 |       | P        | 9.8  |
| 8 | <input type="checkbox"/> |       |            | 382.23 |       | P        | 12.9 |

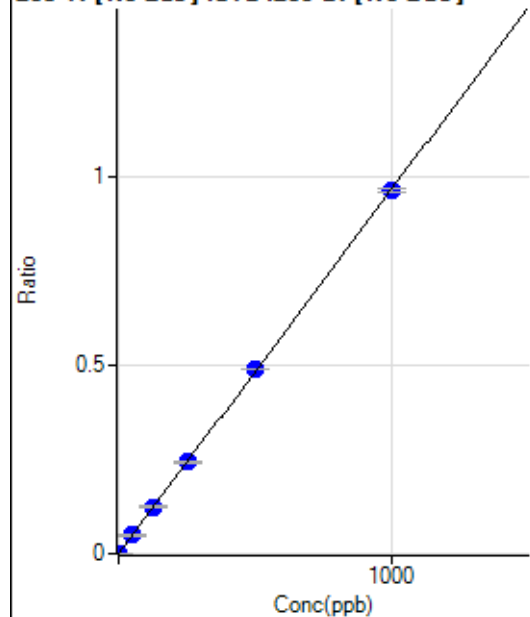
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 72.23 |       | P        | 26.7 |
| 2 | <input type="checkbox"/> |       |            | 44.45 |       | P        | 10.8 |
| 3 | <input type="checkbox"/> |       |            | 66.67 |       | P        | 21.7 |
| 4 | <input type="checkbox"/> |       |            | 47.23 |       | P        | 40.8 |
| 5 | <input type="checkbox"/> |       |            | 47.22 |       | P        | 10.2 |
| 6 | <input type="checkbox"/> |       |            | 69.45 |       | P        | 54.1 |
| 7 | <input type="checkbox"/> |       |            | 63.89 |       | P        | 7.5  |
| 8 | <input type="checkbox"/> |       |            | 75.00 |       | P        | 40.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 20.0 |
| 2 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 38.6 |
| 3 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 28.6 |
| 4 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 50.0 |
| 5 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 47.2 |
| 6 | <input type="checkbox"/> |       |            | 36.67 |       | P        | 24.1 |
| 7 | <input type="checkbox"/> |       |            | 40.00 |       | P        | 44.1 |
| 8 | <input type="checkbox"/> |       |            | 57.78 |       | P        | 12.0 |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00      | 0.0000 | P   | 16.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.921      | 5123.34    | 0.0009 | P   | 3.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.246     | 277140.26  | 0.0486 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 128.910    | 691342.13  | 0.1245 | P   | 3.5  |
| 5 | <input type="checkbox"/> | 250.000  | 251.053    | 1383743.39 | 0.2426 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 506.210    | 2772090.08 | 0.4891 | P   | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.131    | 5398785.23 | 0.9624 | P   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 997.29     | 0.0002 | P   | 14.8 |

$$y = 9.6610\text{E-}004 * x + 8.8711\text{E-}006$$

$$R = 1.0000$$

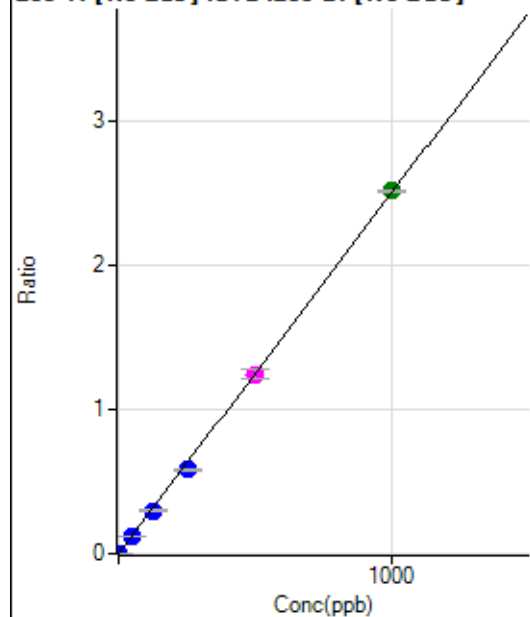
$$DL = 0.004654$$

$$BEC = 0.009182$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 144.45      | 0.0000 | P   | 20.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.877      | 12648.06    | 0.0022 | P   | 2.1  |
| 3 | <input type="checkbox"/> | 50.000   | 46.162     | 659064.35   | 0.1155 | P   | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 119.196    | 1654695.77  | 0.2981 | P   | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 232.372    | 3314925.96  | 0.5811 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 497.348    | 7049281.28  | 1.2436 | M   | 5.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.651   | 14120879.14 | 2.5171 | A   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 2380.83     | 0.0005 | P   | 11.9 |

$$y = 0.0025 * x + 2.5630\text{E-}005$$

$$R = 0.9998$$

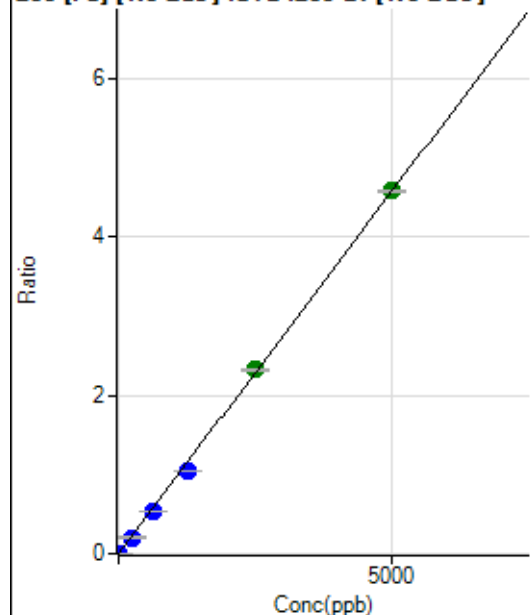
$$DL = 0.006318$$

$$BEC = 0.01025$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 924.12      | 0.0002 | P   | 14.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.819      | 5195.53     | 0.0009 | P   | 4.2  |
| 3 | <input type="checkbox"/> | 250.000  | 225.435    | 1175625.13  | 0.2060 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 625.000  | 580.497    | 2942738.26  | 0.5301 | P   | 2.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1135.739   | 5915601.81  | 1.0369 | P   | 0.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2540.967   | 13148507.35 | 2.3197 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 5014.873   | 25682927.19 | 4.5780 | A   | 0.3  |
| 8 | <input type="checkbox"/> |          |            | 29093.16    | 0.0057 | P   | 0.9  |

$$y = 9.1285E-004 * x + 1.6396E-004$$

$$R = 0.9997$$

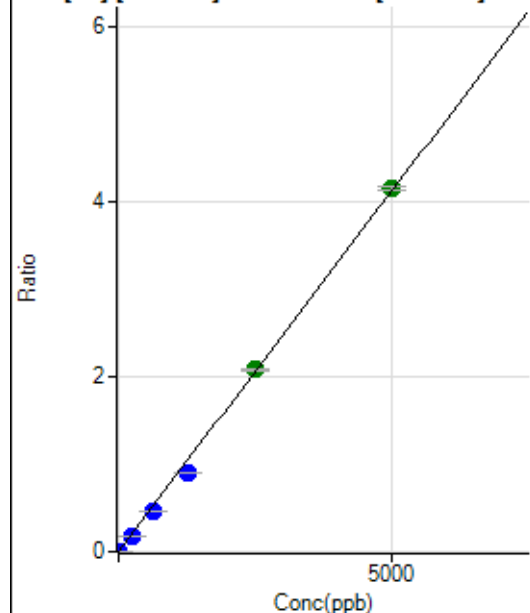
$$DL = 0.07598$$

$$BEC = 0.1796$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 814.86      | 0.0001 | P   | 9.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.767      | 4421.20     | 0.0008 | P   | 2.7 |
| 3 | <input type="checkbox"/> | 250.000  | 219.520    | 1031503.90  | 0.1807 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 625.000  | 560.334    | 2559418.29  | 0.4610 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 1250.000 | 1096.812   | 5147552.05  | 0.9023 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2527.241   | 11783480.35 | 2.0789 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5034.284   | 23230275.29 | 4.1410 | A   | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 25487.89    | 0.0050 | P   | 1.2 |

$$y = 8.2253E-004 * x + 1.4455E-004$$

$$R = 0.9995$$

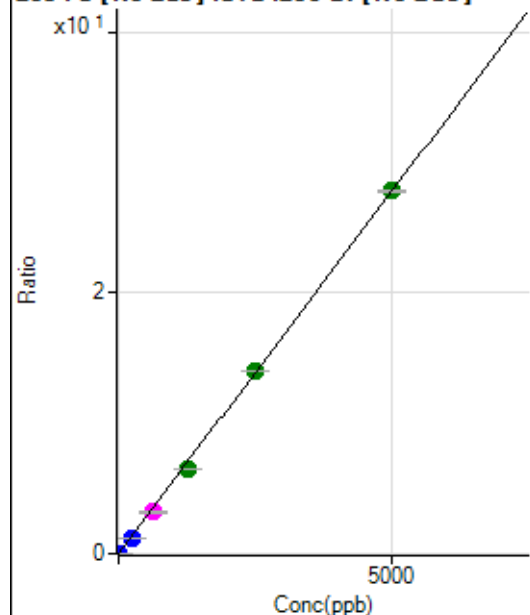
$$DL = 0.04851$$

$$BEC = 0.1757$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5684.70     | 0.0010  | P   | 6.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.805      | 31216.70    | 0.0055  | P   | 1.2 |
| 3 | <input type="checkbox"/> | 250.000  | 221.372    | 7017872.37  | 1.2294  | P   | 0.5 |
| 4 | <input type="checkbox"/> | 625.000  | 583.956    | 17989213.19 | 3.2414  | M   | 4.5 |
| 5 | <input type="checkbox"/> | 1250.000 | 1167.692   | 36971670.89 | 6.4806  | A   | 0.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2530.866   | 79610157.27 | 14.0450 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 5000.000 | 5011.706   | 156020390.7 | 27.8114 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 173202.53   | 0.0340  | P   | 0.7 |

$$y = 0.0055 * x + 0.0010$$

$$R = 0.9998$$

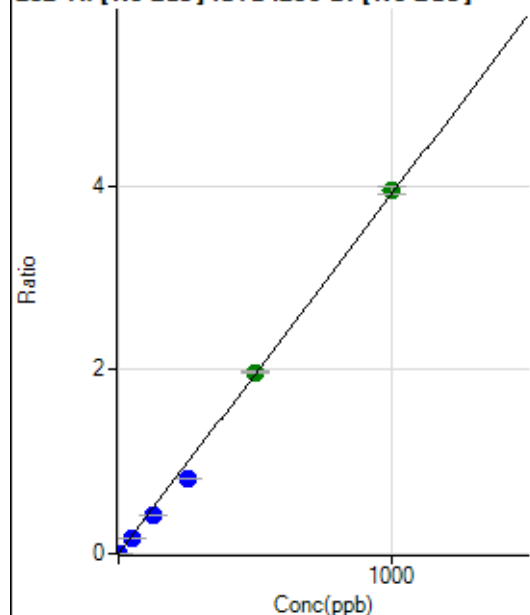
$$DL = 0.03257$$

$$BEC = 0.1817$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 664.85      | 0.0001 | P   | 12.0 |
| 2 | <input type="checkbox"/> | 1.000    | -0.007     | 520.39      | 0.0001 | P   | 14.8 |
| 3 | <input type="checkbox"/> | 50.000   | 41.221     | 919916.71   | 0.1612 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 107.833    | 2338944.99  | 0.4214 | P   | 3.4  |
| 5 | <input type="checkbox"/> | 250.000  | 210.099    | 4683225.63  | 0.8209 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 505.595    | 11196535.44 | 1.9753 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.764   | 22129675.73 | 3.9449 | A   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 3372.73     | 0.0007 | P   | 7.5  |

$$y = 0.0039 * x + 1.1788E-004$$

$$R = 0.9991$$

$$DL = 0.01088$$

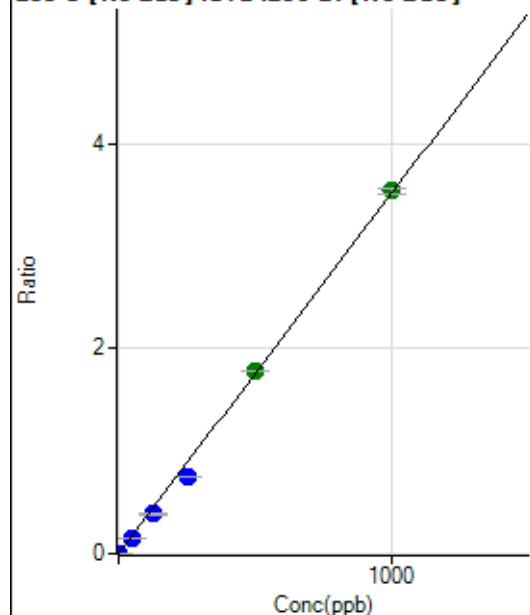
$$BEC = 0.03017$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.44       | 0.0000 | P   | 49.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.766      | 15351.41    | 0.0027 | P   | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 42.222     | 846154.61   | 0.1482 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 110.130    | 2146388.93  | 0.3866 | P   | 2.7  |
| 5 | <input type="checkbox"/> | 250.000  | 215.775    | 4321662.42  | 0.7575 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.836    | 10105797.45 | 1.7829 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.886   | 19829774.23 | 3.5349 | A   | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 1825.19     | 0.0004 | P   | 1.4  |

$$y = 0.0035 * x + 3.4478E-006$$

$$R = 0.9993$$

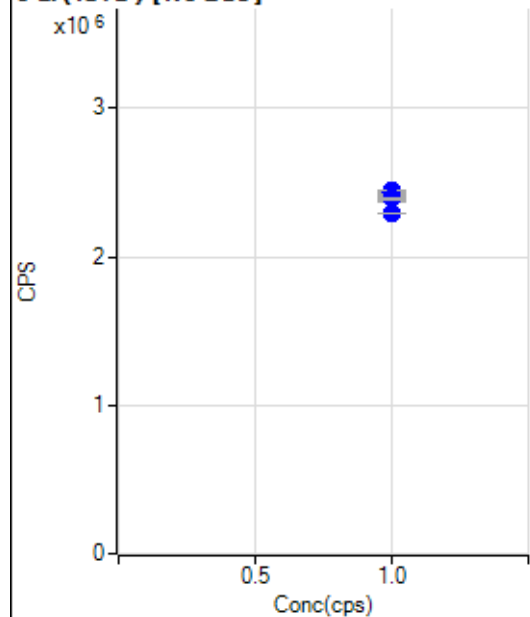
$$DL = 0.001457$$

$$BEC = 0.0009821$$

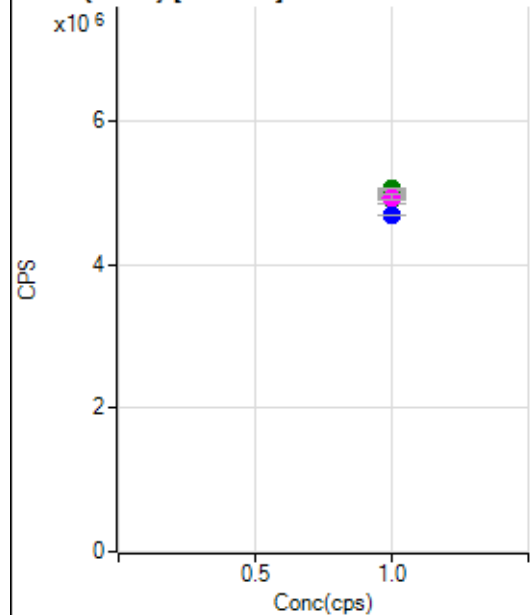
Weight: &lt;None&gt;

Min Conc: 0

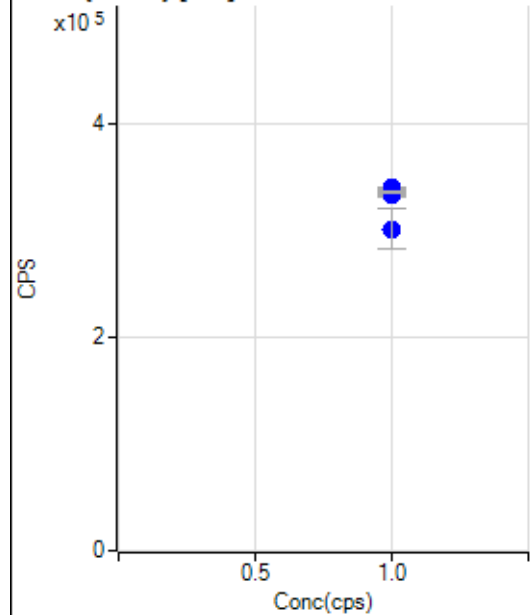
6 Li (ISTD) [No Gas]



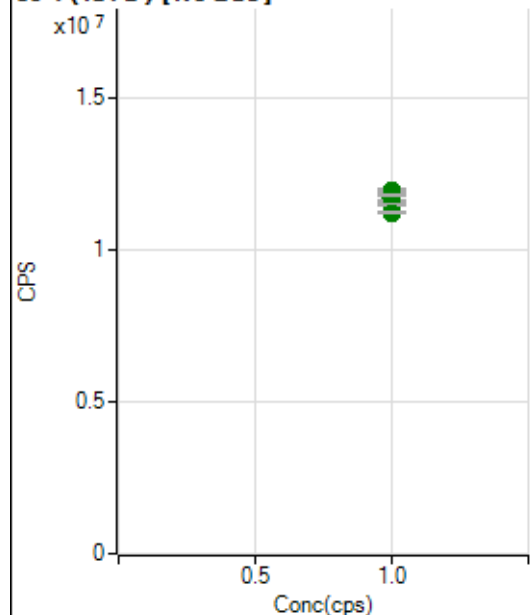
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2407687.29 |       | P   | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2438557.36 |       | P   | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2443803.71 |       | P   | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2390093.45 |       | P   | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2438038.61 |       | P   | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2440157.53 |       | P   | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2394999.13 |       | P   | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2294241.82 |       | P   | 0.1 |

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

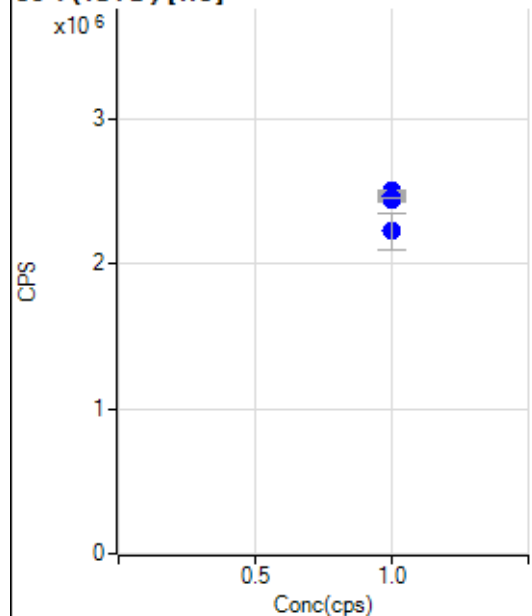
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4912639.34 |       | M   | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5018515.48 |       | A   | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5046777.91 |       | A   | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4904774.86 |       | A   | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5059087.50 |       | A   | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5050448.19 |       | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4936838.96 |       | M   | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4690993.54 |       | P   | 0.2 |

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

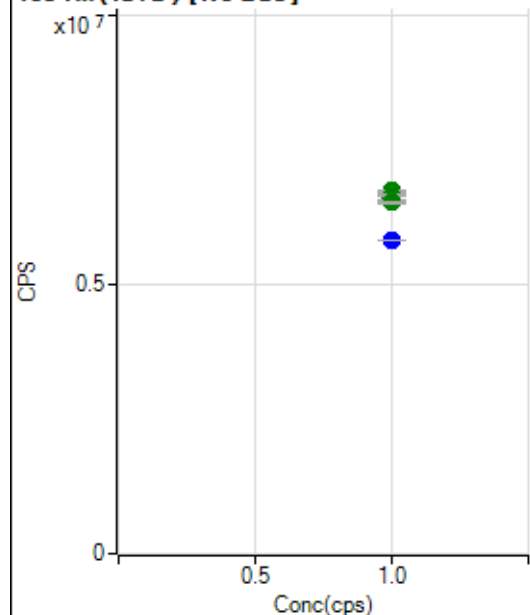
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|-----------|-------|-----|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 332828.66 |       | P   | 0.8  |
| 2 | <input type="checkbox"/> | 1.000 |            | 339270.61 |       | P   | 0.3  |
| 3 | <input type="checkbox"/> | 1.000 |            | 339065.59 |       | P   | 0.5  |
| 4 | <input type="checkbox"/> | 1.000 |            | 335465.80 |       | P   | 0.9  |
| 5 | <input type="checkbox"/> | 1.000 |            | 338768.64 |       | P   | 0.3  |
| 6 | <input type="checkbox"/> | 1.000 |            | 339816.09 |       | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1.000 |            | 335962.86 |       | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1.000 |            | 301138.07 |       | P   | 12.7 |

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

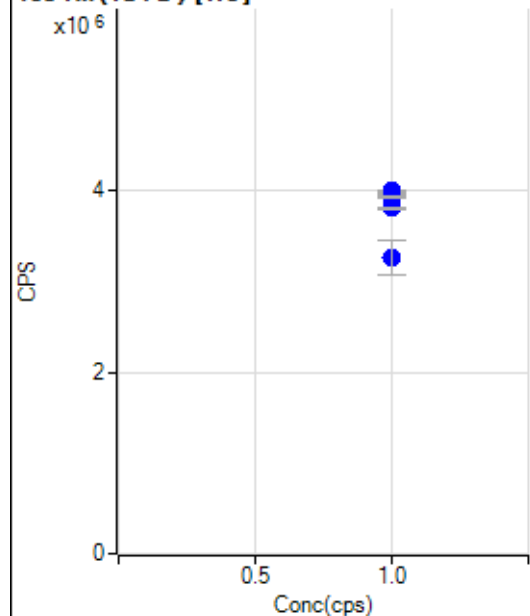
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11527942.75 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11712503.02 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11923613.99 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11685083.44 |       | A        | 2.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11934943.99 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11923673.85 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11801881.63 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11227904.55 |       | A        | 0.5 |

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

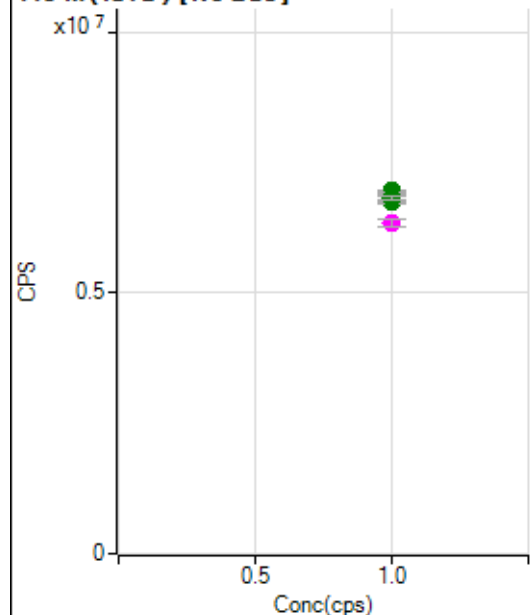
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 2441301.68 |       | P        | 0.6  |
| 2 | <input type="checkbox"/> | 1.000 |            | 2493632.03 |       | P        | 0.8  |
| 3 | <input type="checkbox"/> | 1.000 |            | 2483924.27 |       | P        | 0.9  |
| 4 | <input type="checkbox"/> | 1.000 |            | 2467714.16 |       | P        | 0.8  |
| 5 | <input type="checkbox"/> | 1.000 |            | 2491892.48 |       | P        | 0.2  |
| 6 | <input type="checkbox"/> | 1.000 |            | 2505419.84 |       | P        | 0.7  |
| 7 | <input type="checkbox"/> | 1.000 |            | 2458270.31 |       | P        | 0.2  |
| 8 | <input type="checkbox"/> | 1.000 |            | 2225770.02 |       | P        | 11.7 |

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

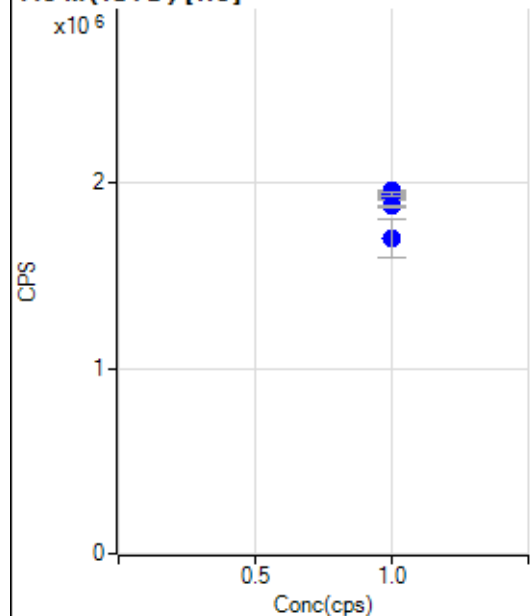
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6601721.15 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6728409.62 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6738660.80 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6600484.14 |       | A        | 2.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6743955.31 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6662820.60 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6529517.68 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5832582.07 |       | P        | 0.1 |

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

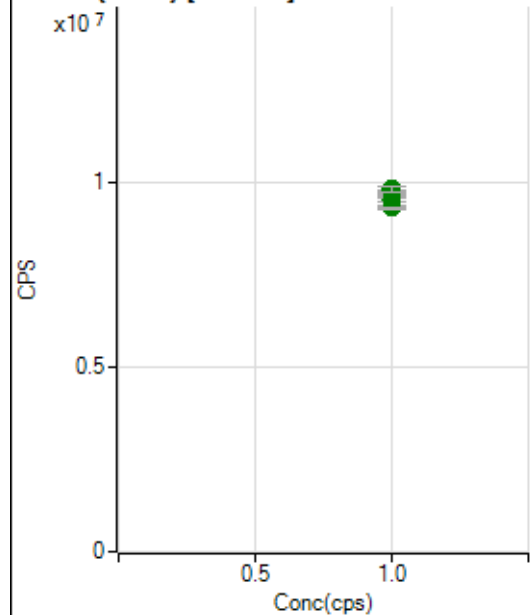
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 3923340.50 |       | P        | 0.2  |
| 2 | <input type="checkbox"/> | 1.000 |            | 3993831.61 |       | P        | 0.4  |
| 3 | <input type="checkbox"/> | 1.000 |            | 3962160.04 |       | P        | 0.4  |
| 4 | <input type="checkbox"/> | 1.000 |            | 3925097.03 |       | P        | 0.4  |
| 5 | <input type="checkbox"/> | 1.000 |            | 3950733.24 |       | P        | 0.4  |
| 6 | <input type="checkbox"/> | 1.000 |            | 3923874.91 |       | P        | 0.4  |
| 7 | <input type="checkbox"/> | 1.000 |            | 3800886.47 |       | P        | 0.4  |
| 8 | <input type="checkbox"/> | 1.000 |            | 3267260.92 |       | P        | 11.5 |

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

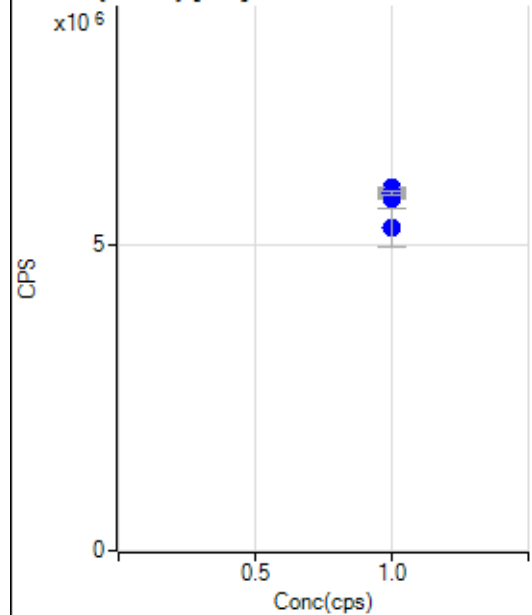
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6763980.98 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6913037.05 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6960596.88 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6811787.88 |       | A        | 2.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6932741.07 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6930840.78 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6821282.90 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6348447.11 |       | M        | 2.0 |

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

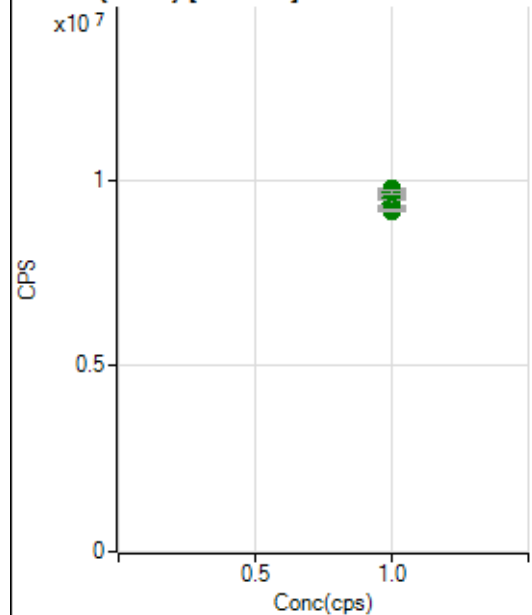
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 1920143.75 |       | P        | 0.1  |
| 2 | <input type="checkbox"/> | 1.000 |            | 1956409.00 |       | P        | 0.5  |
| 3 | <input type="checkbox"/> | 1.000 |            | 1947014.28 |       | P        | 0.7  |
| 4 | <input type="checkbox"/> | 1.000 |            | 1919478.80 |       | P        | 0.8  |
| 5 | <input type="checkbox"/> | 1.000 |            | 1942814.21 |       | P        | 0.2  |
| 6 | <input type="checkbox"/> | 1.000 |            | 1937444.94 |       | P        | 0.8  |
| 7 | <input type="checkbox"/> | 1.000 |            | 1876282.29 |       | P        | 0.5  |
| 8 | <input type="checkbox"/> | 1.000 |            | 1701422.23 |       | P        | 11.9 |

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

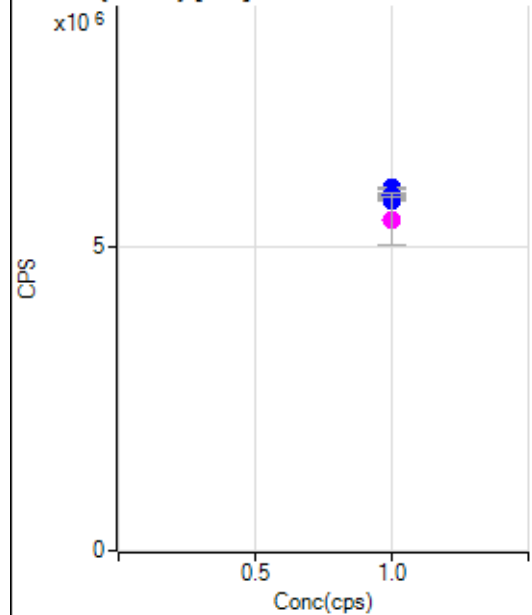
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9470998.12 |       | A   | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9628900.27 |       | A   | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9664553.05 |       | A   | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9513445.00 |       | A   | 2.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9775150.75 |       | A   | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9814857.63 |       | A   | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9800980.55 |       | A   | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9293034.72 |       | A   | 0.5 |

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

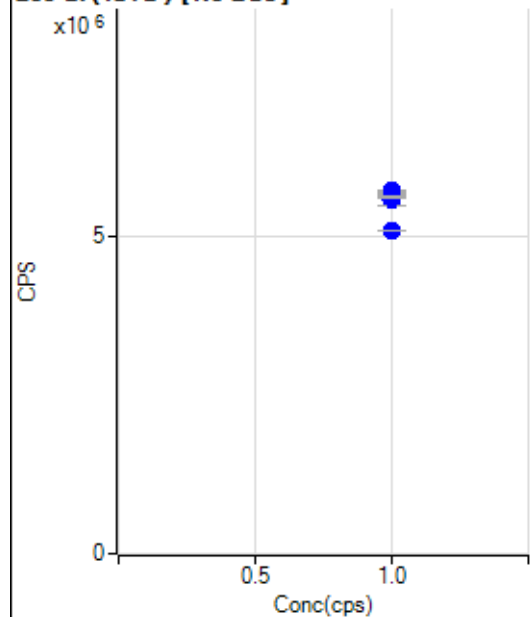
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|------------|-------|-----|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 5748700.33 |       | P   | 0.2  |
| 2 | <input type="checkbox"/> | 1.000 |            | 5862396.03 |       | P   | 0.8  |
| 3 | <input type="checkbox"/> | 1.000 |            | 5858401.16 |       | P   | 0.6  |
| 4 | <input type="checkbox"/> | 1.000 |            | 5819444.36 |       | P   | 0.6  |
| 5 | <input type="checkbox"/> | 1.000 |            | 5922109.22 |       | P   | 0.4  |
| 6 | <input type="checkbox"/> | 1.000 |            | 5934579.01 |       | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1.000 |            | 5853492.76 |       | P   | 1.1  |
| 8 | <input type="checkbox"/> | 1.000 |            | 5294646.27 |       | P   | 11.9 |

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

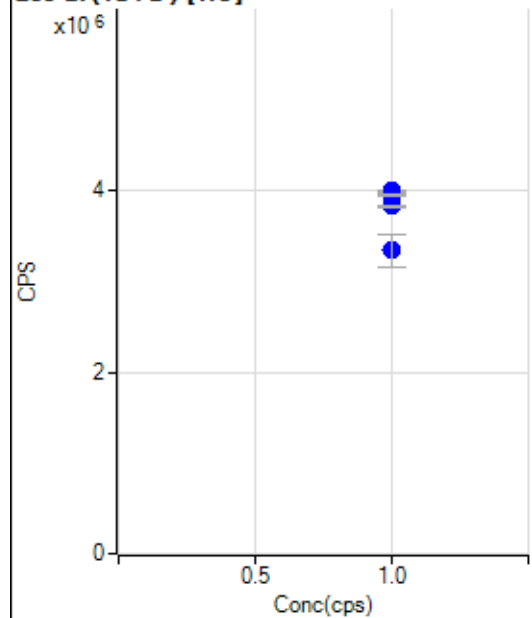
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9298597.08 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9498684.37 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9542524.79 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9387983.96 |       | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9700467.77 |       | A        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9764623.05 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9684124.44 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9185557.50 |       | A        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 5759195.19 |       | P        | 0.3  |
| 2 | <input type="checkbox"/> | 1.000 |            | 5823140.47 |       | P        | 0.2  |
| 3 | <input type="checkbox"/> | 1.000 |            | 5830531.37 |       | P        | 0.5  |
| 4 | <input type="checkbox"/> | 1.000 |            | 5826431.37 |       | P        | 0.6  |
| 5 | <input type="checkbox"/> | 1.000 |            | 5882913.24 |       | P        | 0.0  |
| 6 | <input type="checkbox"/> | 1.000 |            | 5956726.37 |       | P        | 0.5  |
| 7 | <input type="checkbox"/> | 1.000 |            | 5839764.57 |       | P        | 1.1  |
| 8 | <input type="checkbox"/> | 1.000 |            | 5425124.33 |       | M        | 14.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5637555.82 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5700470.57 |       | P        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5708352.13 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5554170.96 |       | P        | 2.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5704933.21 |       | P        | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5668215.54 |       | P        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5610128.87 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5092616.73 |       | P        | 0.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|------------|-------|----------|------|
| 1 | <input type="checkbox"/> | 1.000 |            | 3942911.88 |       | P        | 0.5  |
| 2 | <input type="checkbox"/> | 1.000 |            | 3997458.31 |       | P        | 0.6  |
| 3 | <input type="checkbox"/> | 1.000 |            | 3978865.95 |       | P        | 0.3  |
| 4 | <input type="checkbox"/> | 1.000 |            | 3940824.15 |       | P        | 0.4  |
| 5 | <input type="checkbox"/> | 1.000 |            | 3948695.81 |       | P        | 0.3  |
| 6 | <input type="checkbox"/> | 1.000 |            | 3954974.00 |       | P        | 0.2  |
| 7 | <input type="checkbox"/> | 1.000 |            | 3828500.22 |       | P        | 0.7  |
| 8 | <input type="checkbox"/> | 1.000 |            | 3341331.84 |       | P        | 11.1 |



US EPA Tune Check Sample Report

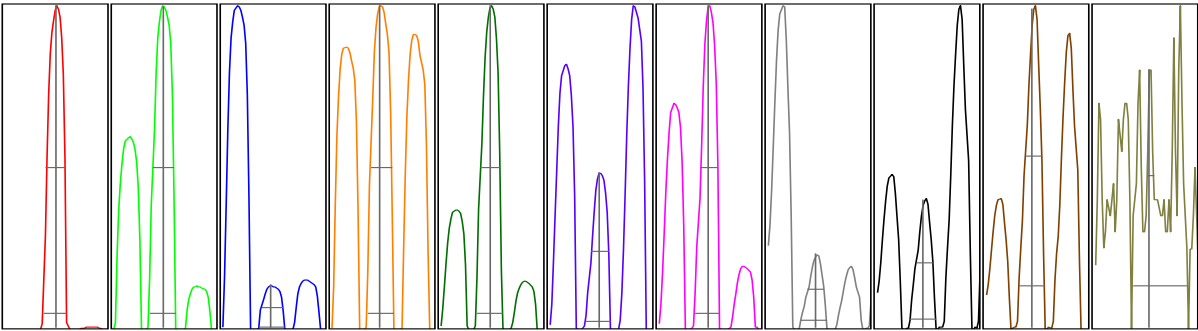
Batch Folder C:\Agilent\ICPMH\1\DATA\P7112420 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 7051            | 0.82             | 5.00               |                |
| 24   | 73309           | 0.69             | 5.00               |                |
| 25   | 9943            | 0.94             | 5.00               |                |
| 26   | 11312           | 0.82             | 5.00               |                |
| 59   | 36109           | 0.66             | 5.00               |                |
| 113  | 6214            | 0.63             | 5.00               |                |
| 115  | 18428           | 1.71             | 5.00               |                |
| 206  | 8891            | 0.24             | 5.00               |                |
| 207  | 7801            | 0.82             | 5.00               |                |
| 208  | 18680           | 0.82             | 5.00               |                |
| 220  | 0               | 22.06            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 7100                 | 7031                 | 7068                 | 6960                 | 7097                 |
| 24   | 73500                | 73796                | 73166                | 72494                | 73589                |
| 25   | 10034                | 10037                | 9938                 | 9828                 | 9878                 |
| 26   | 11279                | 11421                | 11310                | 11180                | 11373                |
| 59   | 36083                | 35963                | 36125                | 35877                | 36497                |
| 113  | 6232                 | 6210                 | 6203                 | 6159                 | 6266                 |
| 115  | 18930                | 18476                | 18306                | 18082                | 18345                |
| 206  | 8872                 | 8875                 | 8887                 | 8894                 | 8925                 |
| 207  | 7834                 | 7832                 | 7777                 | 7700                 | 7860                 |
| 208  | 18764                | 18751                | 18799                | 18418                | 18669                |
| 220  | 0                    | 1                    | 0                    | 1                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 13173          | 9.05             | 8.9 - 9.1          |                | 0.691                | 0.900                  |                        |
| 24   | 123715         | 24.00            | 23.9 - 24.1        |                | 0.779                | 0.900                  |                        |
| 25   | 16543          | 24.95            | 24.9 - 25.1        |                | 0.743                | 0.900                  |                        |
| 26   | 18965          | 25.95            | 25.9 - 26.1        |                | 0.780                | 0.900                  |                        |
| 59   | 65923          | 59.00            | 58.9 - 59.1        |                | 0.773                | 0.900                  |                        |
| 113  | 12183          | 113.00           | 112.9 - 113.1      |                | 0.722                | 0.900                  |                        |
| 115  | 36195          | 115.00           | 114.9 - 115.1      |                | 0.726                | 0.900                  |                        |
| 206  | 18407          | 205.95           | 205.9 - 206.1      |                | 0.737                | 0.900                  |                        |
| 207  | 15363          | 206.90           | 206.9 - 207.1      |                | 0.728                | 0.900                  |                        |
| 208  | 38047          | 207.90           | 207.9 - 208.1      |                | 0.731                | 0.900                  |                        |
| 220  | 1              | 220.15           | -                  |                | 1.554                |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.65  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.40 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 11.5  | V    | Deflect       | 14.2  | V    |
| Extract 2     | -215.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -100   | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 190   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 11927           | 0.34             |                    |
| 89   | 38133           | 0.88             |                    |
| 205  | 26115           | 0.28             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 11890                | 11879                | 11953                | 11974                | 11939                |
| 89   | 37783                | 37777                | 38259                | 38331                | 38516                |
| 205  | 26115                | 26084                | 26012                | 26173                | 26193                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.65  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.40 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 11.1  | V    | Deflect       | 2.8   | V    |
| Extract 2     | -210.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -105   | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 3.9   | mL/min | OctP RF       | 200   | V    |                       |       |       |