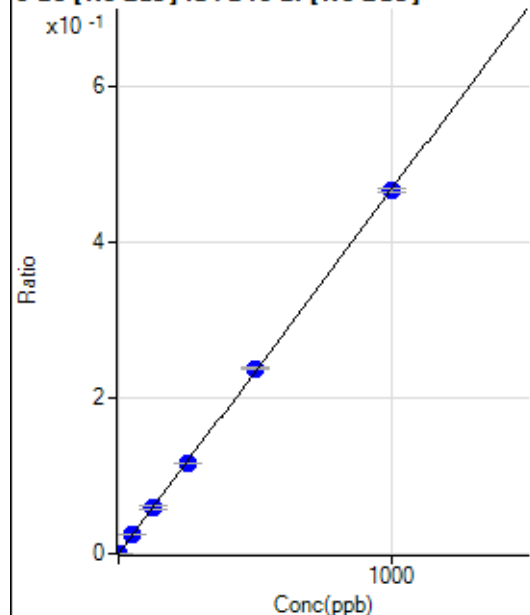


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8093020MS.b\  
Analysis File: P8093020MS.batch.bin  
DA Date-Time: 2020-09-30 14:15:29  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2020-09-30 10:14:13 |
| 2     | 004CALS.d          | S02         | 2020-09-30 10:17:24 |
| 3     | 005CALS.d          | S03         | 2020-09-30 10:20:33 |
| 4     | 006CALS.d          | S04         | 2020-09-30 10:23:43 |
| 5     | 007CALS.d          | S05         | 2020-09-30 10:26:48 |
| 6     | 008CALS.d          | S06         | 2020-09-30 10:29:48 |
| 7     | 009CALS.d          | S07         | 2020-09-30 10:32:46 |
| 8     | 010CALS.d          | S08         | 2020-09-30 10:35:46 |

**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      | 37.32     | 0.0000 | P    | 26.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.967      | 709.88    | 0.0005 | P    | 5.1  |
| 3 | <input type="checkbox"/> | 50.000   | 51.139     | 35596.95  | 0.0239 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 126.515    | 88282.18  | 0.0591 | P    | 5.6  |
| 5 | <input type="checkbox"/> | 250.000  | 248.180    | 177140.82 | 0.1159 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 508.414    | 357804.93 | 0.2374 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.002    | 710629.56 | 0.4650 | P    | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 191.30    | 0.0001 | P    | 12.6 |

$$y = 4.6689\text{E-}004 * x + 2.5109\text{E-}005$$

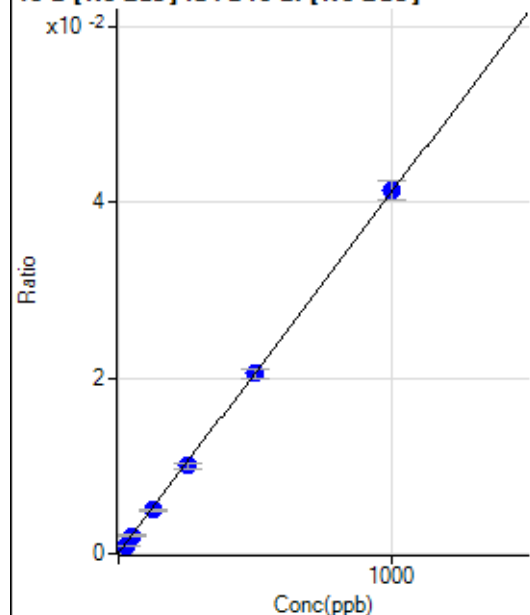
$$R = 0.9999$$

$$DL = 0.04315$$

$$BEC = 0.05378$$

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      | 87.98    | 0.0001 | P    | 20.5 |
| 2 | <input type="checkbox"/> | 25.000   | 21.159     | 1381.80  | 0.0009 | P    | 6.8  |
| 3 | <input type="checkbox"/> | 50.000   | 48.805     | 3070.39  | 0.0021 | P    | 8.9  |
| 4 | <input type="checkbox"/> | 125.000  | 120.110    | 7473.78  | 0.0050 | P    | 4.2  |
| 5 | <input type="checkbox"/> | 250.000  | 242.000    | 15264.92 | 0.0100 | P    | 7.1  |
| 6 | <input type="checkbox"/> | 500.000  | 497.627    | 30889.58 | 0.0205 | P    | 6.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.954   | 63040.26 | 0.0413 | P    | 5.2  |
| 8 | <input type="checkbox"/> |          |            | 8324.75  | 0.0054 | P    | 13.2 |

$$y = 4.1031\text{E-}005 * x + 5.9238\text{E-}005$$

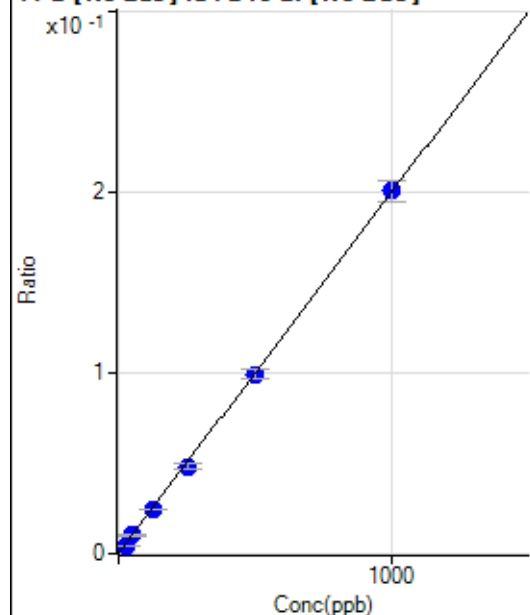
$$R = 1.0000$$

$$DL = 0.8874$$

$$BEC = 1.444$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 365.94    | 0.0002 | P        | 10.8 |
| 2 | <input type="checkbox"/> | 25.000   | 21.251     | 6690.22   | 0.0045 | P        | 6.9  |
| 3 | <input type="checkbox"/> | 50.000   | 49.582     | 15114.80  | 0.0101 | P        | 6.4  |
| 4 | <input type="checkbox"/> | 125.000  | 122.028    | 36862.75  | 0.0246 | P        | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 241.009    | 73927.35  | 0.0484 | P        | 8.3  |
| 6 | <input type="checkbox"/> | 500.000  | 496.504    | 149928.56 | 0.0994 | P        | 5.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.482   | 306952.32 | 0.2009 | P        | 5.9  |
| 8 | <input type="checkbox"/> |          |            | 39407.07  | 0.0253 | P        | 12.4 |

$$y = 1.9971\text{E-}004 * x + 2.4627\text{E-}004$$

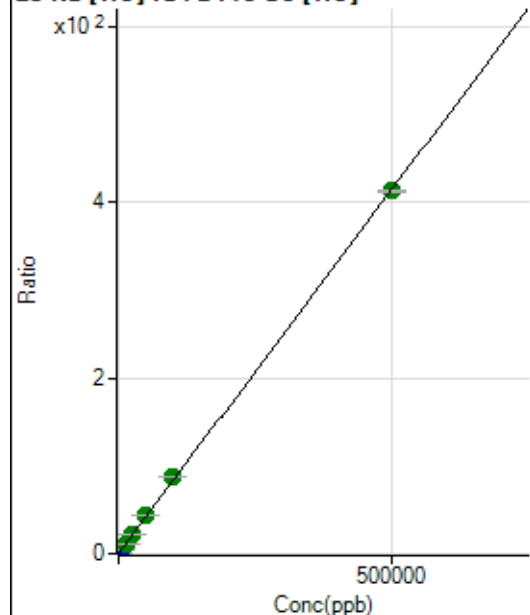
R = 0.9999

DL = 0.3998

BEC = 1.233

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 22948.89    | 0.1918   | P        | 2.2 |
| 2 | <input type="checkbox"/> | 500.000   | 501.333    | 73515.94    | 0.6071   | P        | 2.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 5449.483   | 569027.88   | 4.7055   | P        | 1.1 |
| 4 | <input type="checkbox"/> | 12500.000 | 13599.555  | 1380377.31  | 11.4559  | A        | 3.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 26689.745  | 2731903.42  | 22.2981  | A        | 1.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 52760.948  | 5381661.58  | 43.8921  | A        | 0.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 104755.33  | 10811080.97 | 86.9574  | A        | 0.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 498656.36  | 51498966.43 | 413.2135 | A        | 0.4 |

$$y = 8.2827\text{E-}004 * x + 0.1918$$

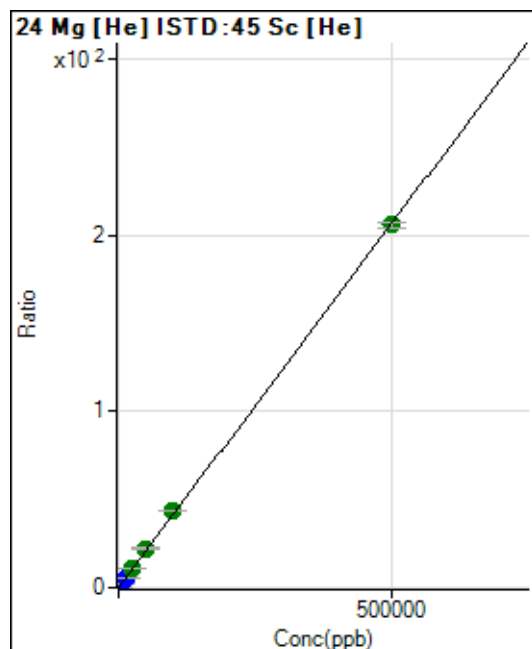
R = 0.9999

DL = 15.09

BEC = 231.6

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      | 488.91      | 0.0041   | P    | 16.7 |
| 2 | <input type="checkbox"/> | 500.000   | 510.588    | 26037.57    | 0.2150   | P    | 2.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 5602.455   | 280374.07   | 2.3184   | P    | 0.3  |
| 4 | <input type="checkbox"/> | 12500.000 | 13849.421  | 689827.76   | 5.7251   | P    | 3.2  |
| 5 | <input type="checkbox"/> | 25000.000 | 27352.285  | 1384697.99  | 11.3029  | A    | 1.8  |
| 6 | <input type="checkbox"/> | 50000.000 | 54146.843  | 2743157.77  | 22.3714  | A    | 0.4  |
| 7 | <input type="checkbox"/> | 100000.00 | 104979.51  | 5392033.71  | 43.3696  | A    | 0.4  |
| 8 | <input type="checkbox"/> | 500000.00 | 498432.02  | 25661255.43 | 205.8993 | A    | 1.4  |

$$y = 4.1309\text{E-}004 * x + 0.0041$$

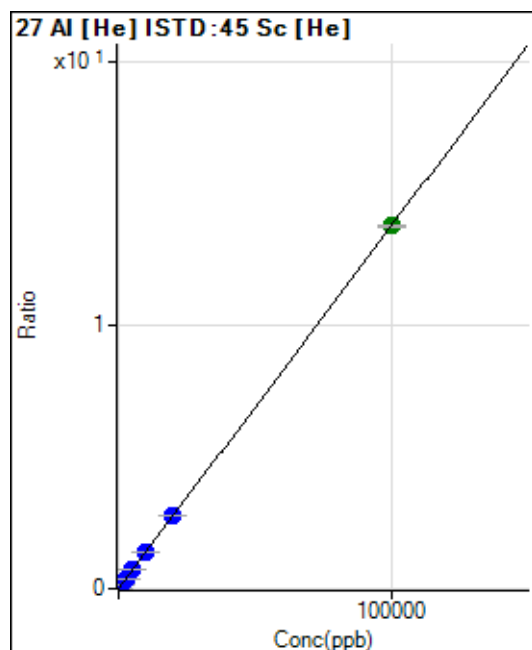
R = 0.9999

DL = 4.947

BEC = 9.9

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 579.52     | 0.0048  | P    | 8.0 |
| 2 | <input type="checkbox"/> | 20.000    | 18.749     | 899.09     | 0.0074  | P    | 5.1 |
| 3 | <input type="checkbox"/> | 1000.000  | 1032.227   | 17775.25   | 0.1470  | P    | 0.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 2565.506   | 43150.54   | 0.3581  | P    | 3.4 |
| 5 | <input type="checkbox"/> | 5000.000  | 5091.768   | 86503.51   | 0.7060  | P    | 0.3 |
| 6 | <input type="checkbox"/> | 10000.000 | 10171.142  | 172327.01  | 1.4055  | P    | 0.9 |
| 7 | <input type="checkbox"/> | 20000.000 | 20111.520  | 344911.05  | 2.7743  | P    | 1.4 |
| 8 | <input type="checkbox"/> | 100000.00 | 99954.034  | 1716045.93 | 13.7690 | A    | 0.5 |

$$y = 1.3771\text{E-}004 * x + 0.0048$$

R = 1.0000

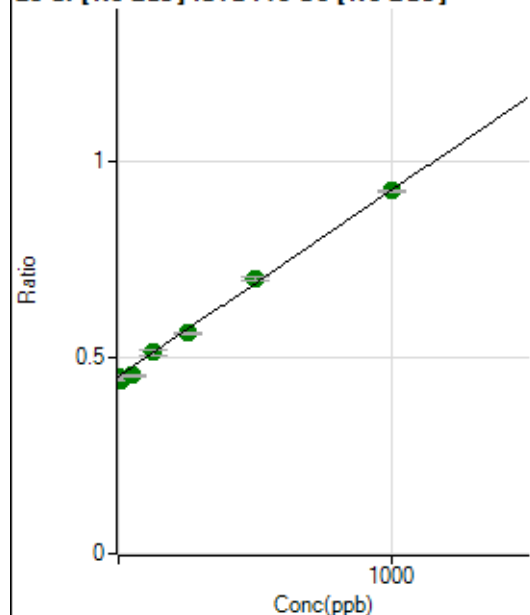
DL = 8.47

BEC = 35.18

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1410675.18 | 0.4526 | A        | 1.8 |
| 2 | <input type="checkbox"/> | 10.000   | -19.692    | 1404791.19 | 0.4433 | A        | 1.1 |
| 3 | <input type="checkbox"/> | 50.000   | 4.143      | 1472247.18 | 0.4546 | A        | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 129.910    | 1632913.30 | 0.5143 | A        | 2.9 |
| 5 | <input type="checkbox"/> | 250.000  | 232.772    | 1834643.72 | 0.5631 | A        | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 522.169    | 2251228.83 | 0.7005 | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.199    | 3078814.32 | 0.9251 | A        | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 1560308.43 | 0.4811 | A        | 2.7 |

$$y = 4.7471\text{E-}004 * x + 0.4526$$

R = 0.9984

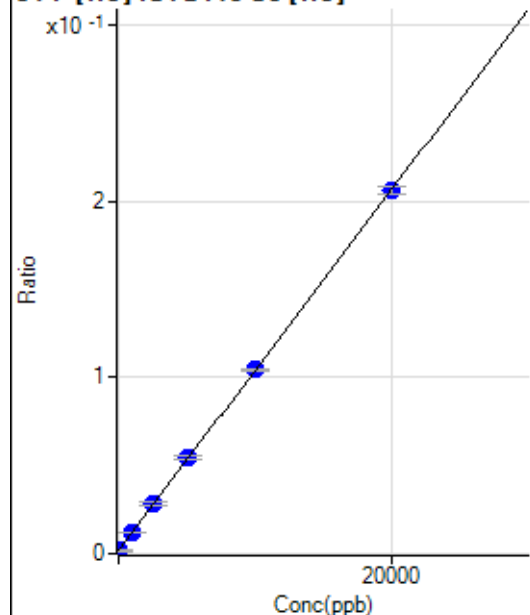
DL = 51.41

BEC = 953.5

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 7.842      | 227.79   | 0.0019 | P        | 13.4 |
| 2 | <input type="checkbox"/> | 0.000     | -7.842     | 211.12   | 0.0017 | P        | 18.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 997.211    | 1452.89  | 0.0120 | P        | 5.9  |
| 4 | <input type="checkbox"/> | 2500.000  | 2579.646   | 3394.93  | 0.0282 | P        | 8.6  |
| 5 | <input type="checkbox"/> | 5000.000  | 5131.054   | 6651.71  | 0.0543 | P        | 4.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 10029.367  | 12794.86 | 0.1043 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 20000.000 | 19942.737  | 25578.70 | 0.2057 | P        | 2.2  |
| 8 | <input type="checkbox"/> |           |            | 186.12   | 0.0015 | P        | 22.2 |

$$y = 1.0223\text{E-}005 * x + 0.0018$$

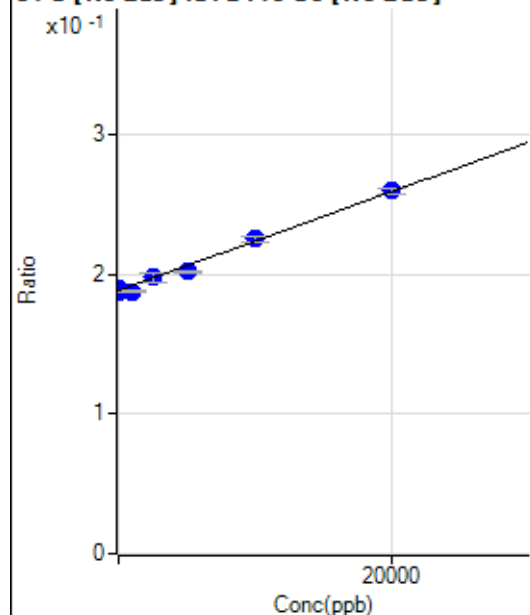
R = 1.0000

DL = 83.24

BEC = 178.1

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 361.832    | 591373.21 | 0.1898 | P    | 0.9 |
| 2 | <input type="checkbox"/> | 0.000     | -361.832   | 593224.72 | 0.1872 | P    | 0.6 |
| 3 | <input type="checkbox"/> | 1000.000  | -251.686   | 607506.09 | 0.1876 | P    | 0.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2640.547   | 627896.34 | 0.1978 | P    | 3.6 |
| 5 | <input type="checkbox"/> | 5000.000  | 3783.293   | 657539.56 | 0.2018 | P    | 0.9 |
| 6 | <input type="checkbox"/> | 10000.000 | 10430.829  | 724033.45 | 0.2253 | P    | 1.7 |
| 7 | <input type="checkbox"/> | 20000.000 | 20133.778  | 863894.67 | 0.2596 | P    | 1.5 |
| 8 | <input type="checkbox"/> |           |            | 564116.63 | 0.1739 | P    | 2.7 |

$$y = 3.5322\text{E-}006 * x + 0.1885$$

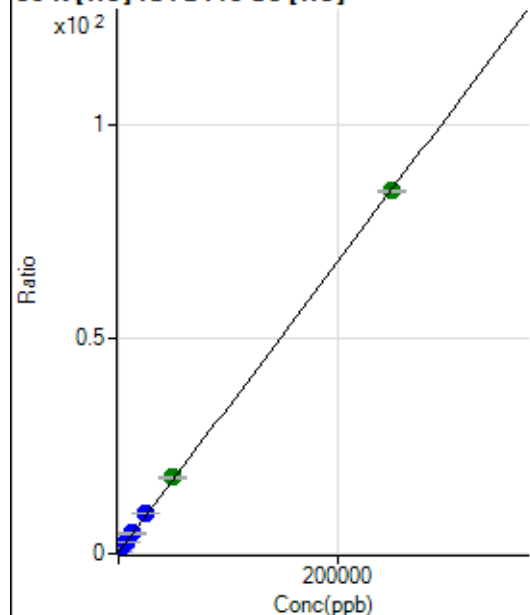
$$R = 0.9959$$

$$DL = 1255$$

$$BEC = 5.336\text{E}+04$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 28281.14    | 0.2364  | P    | 1.7 |
| 2 | <input type="checkbox"/> | 500.000   | 480.354    | 48275.72    | 0.3986  | P    | 0.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2692.117   | 138544.11   | 1.1456  | P    | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6749.638   | 303190.04   | 2.5160  | P    | 2.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13278.114  | 578407.03   | 4.7210  | P    | 1.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26812.341  | 1139255.14  | 9.2922  | P    | 1.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 51915.119  | 2209017.45  | 17.7706 | A    | 2.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 249382.46  | 10526796.42 | 84.4647 | A    | 0.7 |

$$y = 3.3775\text{E-}004 * x + 0.2364$$

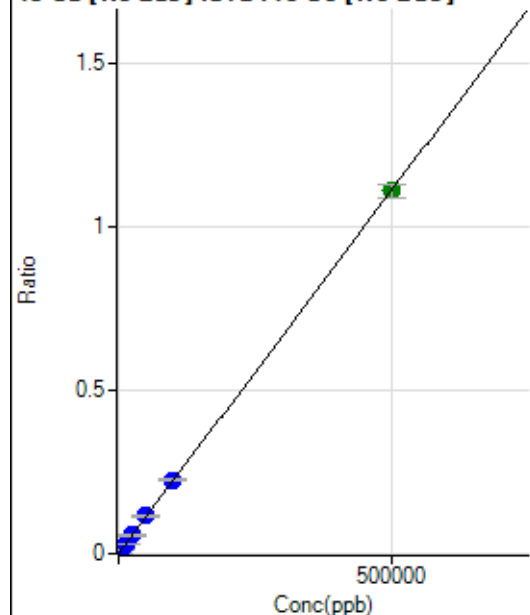
$$R = 1.0000$$

$$DL = 35.91$$

$$BEC = 699.8$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 362.88     | 0.0001 | P    | 4.4 |
| 2 | <input type="checkbox"/> | 500.000   | 474.731    | 3712.94    | 0.0012 | P    | 2.1 |
| 3 | <input type="checkbox"/> | 5000.000  | 4997.722   | 36353.21   | 0.0112 | P    | 1.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 12838.962  | 90962.01   | 0.0287 | P    | 3.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 25169.798  | 182651.03  | 0.0561 | P    | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 51833.358  | 370615.85  | 0.1153 | P    | 1.5 |
| 7 | <input type="checkbox"/> | 100000.00 | 101479.56  | 751056.76  | 0.2257 | P    | 1.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 499503.83  | 3600579.62 | 1.1104 | A    | 4.0 |

$$y = 2.2228\text{E-}006 * x + 1.1643\text{E-}004$$

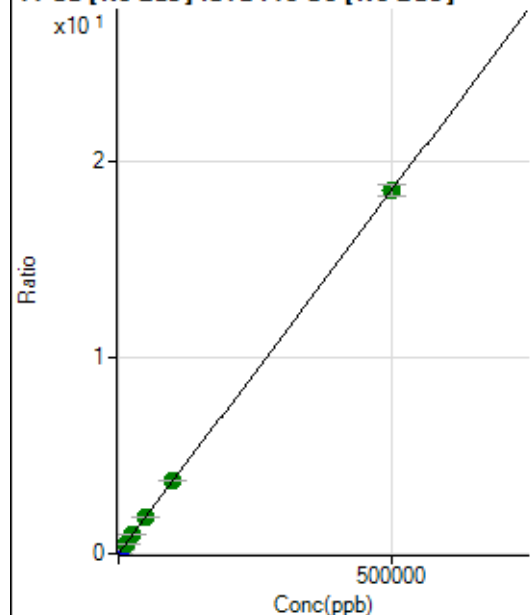
$$R = 1.0000$$

$$DL = 6.956$$

$$BEC = 52.38$$

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      | 27027.93    | 0.0087  | P    | 0.6 |
| 2 | <input type="checkbox"/> | 500.000   | 472.763    | 82983.18    | 0.0262  | P    | 0.9 |
| 3 | <input type="checkbox"/> | 5000.000  | 5038.991   | 632596.61   | 0.1953  | P    | 1.1 |
| 4 | <input type="checkbox"/> | 12500.000 | 12878.733  | 1542145.44  | 0.4858  | A    | 3.2 |
| 5 | <input type="checkbox"/> | 25000.000 | 25295.969  | 3081248.83  | 0.9458  | A    | 0.3 |
| 6 | <input type="checkbox"/> | 50000.000 | 51067.135  | 6106938.05  | 1.9004  | A    | 1.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 100624.63  | 12434901.28 | 3.7363  | A    | 1.0 |
| 8 | <input type="checkbox"/> | 500000.00 | 499743.73  | 60065801.45 | 18.5215 | A    | 3.1 |

$$y = 3.7045\text{E-}005 * x + 0.0087$$

$$R = 1.0000$$

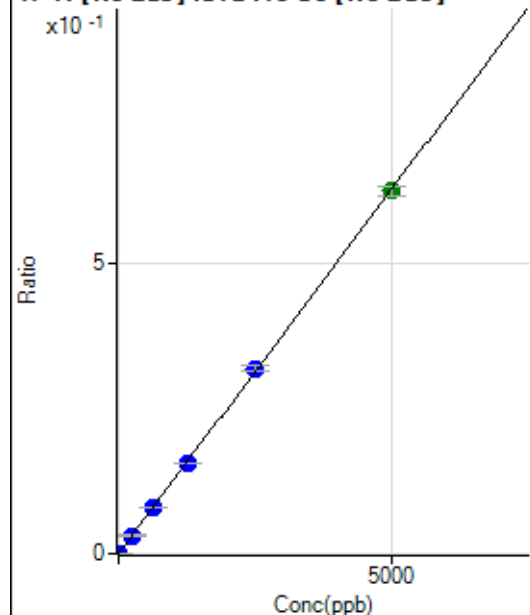
$$DL = 4.297$$

$$BEC = 234.1$$

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      | 569.47     | 0.0002 | P   | 12.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.738      | 2458.61    | 0.0008 | P   | 7.5  |
| 3 | <input type="checkbox"/> | 250.000  | 247.155    | 100823.83  | 0.0311 | P   | 2.1  |
| 4 | <input type="checkbox"/> | 625.000  | 631.756    | 251716.60  | 0.0793 | P   | 3.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1237.962   | 505679.22  | 0.1552 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2543.971   | 1024199.96 | 0.3188 | P   | 2.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.322   | 2075982.51 | 0.6239 | A   | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 591.69     | 0.0002 | P   | 8.9  |

$$y = 1.2523\text{E-}004 * x + 1.8264\text{E-}004$$

$$R = 0.9999$$

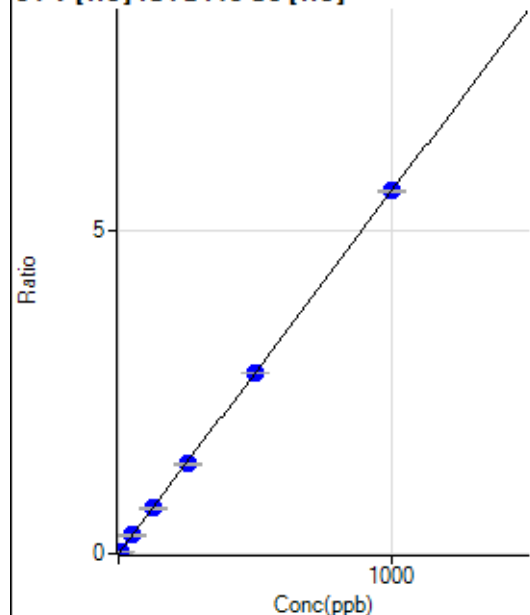
$$DL = 0.5577$$

$$BEC = 1.458$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89      | 0.0001 | P   | 20.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.706      | 3200.39   | 0.0264 | P   | 8.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.645     | 34327.79  | 0.2839 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 124.725    | 84231.39  | 0.6990 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 248.287    | 170460.47 | 1.3914 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 498.871    | 342766.19 | 2.7956 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.996   | 697379.79 | 5.6093 | P   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 82.22     | 0.0007 | P   | 14.4 |

$$y = 0.0056 * x + 7.4201\text{E-}005$$

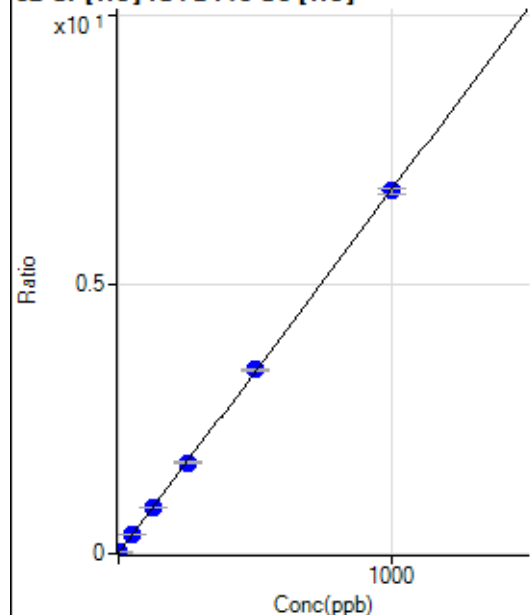
$$R = 1.0000$$

$$DL = 0.008271$$

$$BEC = 0.01324$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 804.48    | 0.0067 | P        | 5.4 |
| 2 | <input type="checkbox"/> | 2.000    | 1.961      | 2414.67   | 0.0199 | P        | 1.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.645     | 42092.94  | 0.3481 | P        | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 126.544    | 103585.92 | 0.8596 | P        | 2.3 |
| 5 | <input type="checkbox"/> | 250.000  | 249.539    | 206883.02 | 1.6886 | P        | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 504.536    | 417754.25 | 3.4072 | P        | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.622    | 836672.97 | 6.7305 | P        | 1.9 |
| 8 | <input type="checkbox"/> |          |            | 1740.13   | 0.0140 | P        | 4.7 |

$$y = 0.0067 * x + 0.0067$$

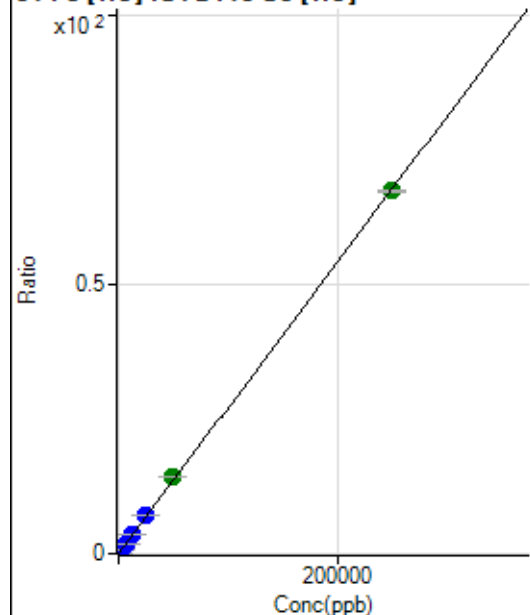
$$R = 1.0000$$

$$DL = 0.1602$$

$$BEC = 0.9976$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 316.67     | 0.0026  | P        | 23.3 |
| 2 | <input type="checkbox"/> | 50.000    | 49.203     | 1929.80    | 0.0159  | P        | 1.2  |
| 3 | <input type="checkbox"/> | 2500.000  | 2661.331   | 87216.15   | 0.7212  | P        | 2.2  |
| 4 | <input type="checkbox"/> | 6250.000  | 6640.009   | 216366.51  | 1.7956  | P        | 2.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 13073.349  | 432812.78  | 3.5327  | P        | 0.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 26438.856  | 875658.74  | 7.1415  | P        | 0.3  |
| 7 | <input type="checkbox"/> | 50000.000 | 52477.588  | 1761972.20 | 14.1724 | A        | 0.7  |
| 8 | <input type="checkbox"/> | 250000.00 | 249320.56  | 8390474.09 | 67.3230 | A        | 0.5  |

$$y = 2.7002E-004 * x + 0.0026$$

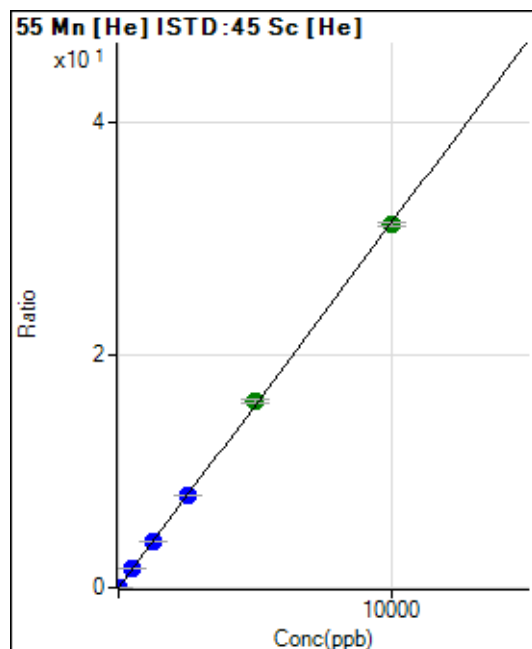
$$R = 0.9999$$

$$DL = 6.844$$

$$BEC = 9.806$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 80.00      | 0.0007  | P   | 19.2 |
| 2 | <input type="checkbox"/> | 1.000     | 0.875      | 413.34     | 0.0034  | P   | 14.6 |
| 3 | <input type="checkbox"/> | 500.000   | 511.220    | 193693.98  | 1.6017  | P   | 0.8  |
| 4 | <input type="checkbox"/> | 1250.000  | 1274.849   | 481202.71  | 3.9932  | P   | 2.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2520.475   | 967145.54  | 7.8942  | P   | 1.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 5101.635   | 1958936.92 | 15.9777 | A   | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9940.396   | 3870178.66 | 31.1315 | A   | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 2659.16    | 0.0213  | P   | 5.2  |

$$y = 0.0031 * x + 6.6942E-004$$

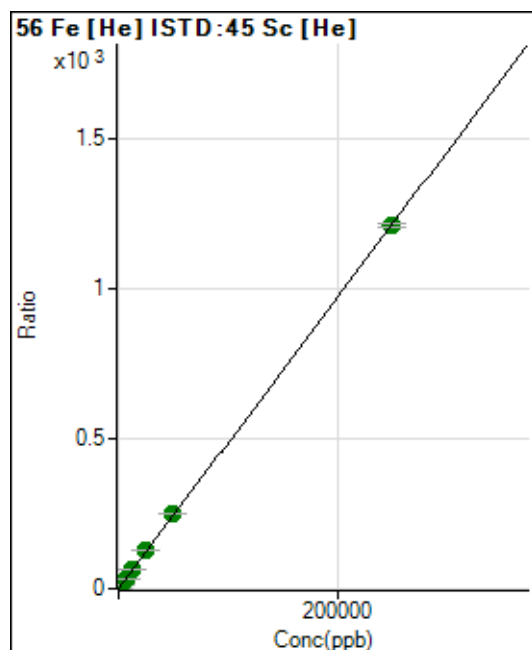
$$R = 0.9999$$

$$DL = 0.1231$$

$$BEC = 0.2138$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2085.38     | 0.0174    | P   | 4.8 |
| 2 | <input type="checkbox"/> | 50.000    | 50.414     | 31705.82    | 0.2618    | P   | 2.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2684.561   | 1576082.44  | 13.0329   | A   | 1.1 |
| 4 | <input type="checkbox"/> | 6250.000  | 6670.223   | 3898736.37  | 32.3566   | A   | 3.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 13117.815  | 7794060.94  | 63.6164   | A   | 1.0 |
| 6 | <input type="checkbox"/> | 25000.000 | 26240.547  | 15600750.23 | 127.2391  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 51300.325  | 30923421.76 | 248.7362  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249572.63  | 150805983.0 | 1,210.017 | A   | 1.2 |

$$y = 0.0048 * x + 0.0174$$

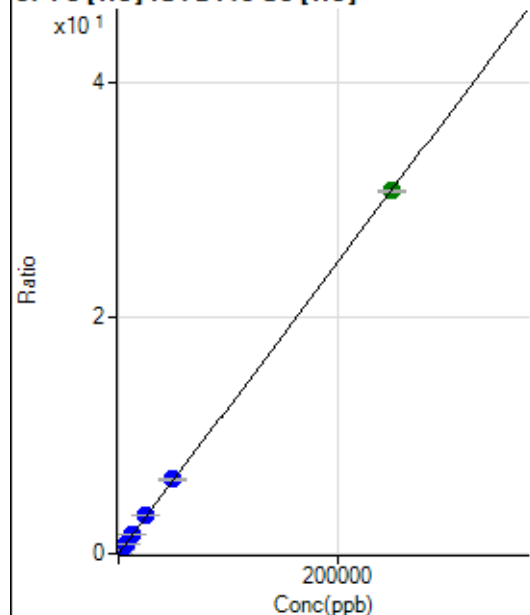
$$R = 1.0000$$

$$DL = 0.5149$$

$$BEC = 3.593$$

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      | 175.93     | 0.0015  | P   | 15.1 |
| 2 | <input type="checkbox"/> | 50.000    | 40.875     | 788.92     | 0.0065  | P   | 9.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2586.972   | 38749.12   | 0.3204  | P   | 1.3  |
| 4 | <input type="checkbox"/> | 6250.000  | 6514.404   | 96951.46   | 0.8046  | P   | 3.2  |
| 5 | <input type="checkbox"/> | 12500.000 | 12845.077  | 194200.38  | 1.5851  | P   | 1.3  |
| 6 | <input type="checkbox"/> | 25000.000 | 25887.168  | 391525.01  | 3.1931  | P   | 0.3  |
| 7 | <input type="checkbox"/> | 50000.000 | 51050.206  | 782638.53  | 6.2955  | P   | 1.3  |
| 8 | <input type="checkbox"/> | 250000.00 | 249676.51  | 3836674.59 | 30.7842 | A   | 0.5  |

$$y = 1.2329\text{E-}004 * x + 0.0015$$

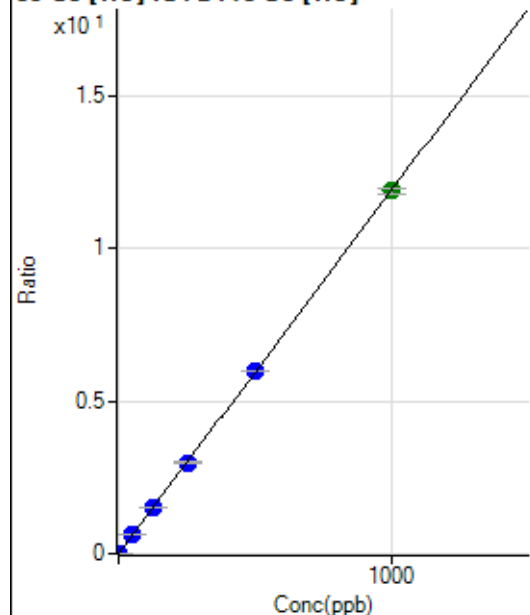
R = 1.0000

DL = 5.386

BEC = 11.91

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 31.11      | 0.0003  | P   | 34.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.976      | 1440.09    | 0.0119  | P   | 8.0  |
| 3 | <input type="checkbox"/> | 50.000   | 51.485     | 74243.14   | 0.6139  | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.441    | 181647.70  | 1.5074  | P   | 2.2  |
| 5 | <input type="checkbox"/> | 250.000  | 250.217    | 365424.05  | 2.9827  | P   | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 502.734    | 734771.65  | 5.9926  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.324    | 1479428.69 | 11.8997 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 2371.33    | 0.0190  | P   | 0.6  |

$$y = 0.0119 * x + 2.6104\text{E-}004$$

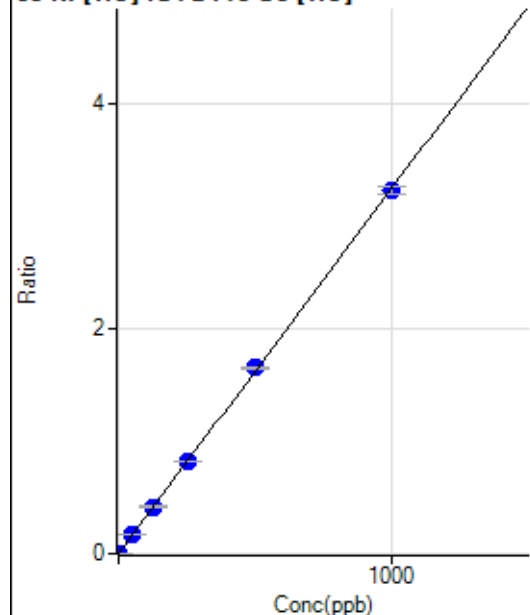
R = 1.0000

DL = 0.0224

BEC = 0.0219

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 168.89    | 0.0014 | P        | 6.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.936      | 538.91    | 0.0045 | P        | 9.2 |
| 3 | <input type="checkbox"/> | 50.000   | 52.668     | 20864.26  | 0.1725 | P        | 2.7 |
| 4 | <input type="checkbox"/> | 125.000  | 128.462    | 50472.42  | 0.4188 | P        | 1.9 |
| 5 | <input type="checkbox"/> | 250.000  | 252.420    | 100666.37 | 0.8216 | P        | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 509.480    | 203145.37 | 1.6569 | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.089    | 401697.85 | 3.2315 | P        | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 757.81    | 0.0061 | P        | 4.5 |

$$y = 0.0032 * x + 0.0014$$

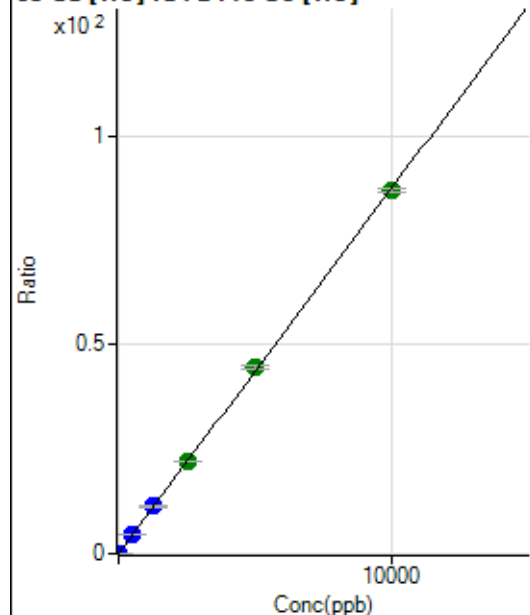
$$R = 0.9999$$

$$DL = 0.08685$$

$$BEC = 0.4347$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 454.46      | 0.0038  | P        | 17.7 |
| 2 | <input type="checkbox"/> | 2.000     | 2.043      | 2622.49     | 0.0217  | P        | 5.1  |
| 3 | <input type="checkbox"/> | 500.000   | 516.679    | 546956.78   | 4.5228  | P        | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1290.379   | 1360427.62  | 11.2898 | P        | 2.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2538.020   | 2720104.02  | 22.2019 | A        | 0.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5106.217   | 5476185.19  | 44.6640 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9931.505   | 10799374.77 | 86.8672 | A        | 1.1  |
| 8 | <input type="checkbox"/> |           |            | 3866.11     | 0.0310  | P        | 3.2  |

$$y = 0.0087 * x + 0.0038$$

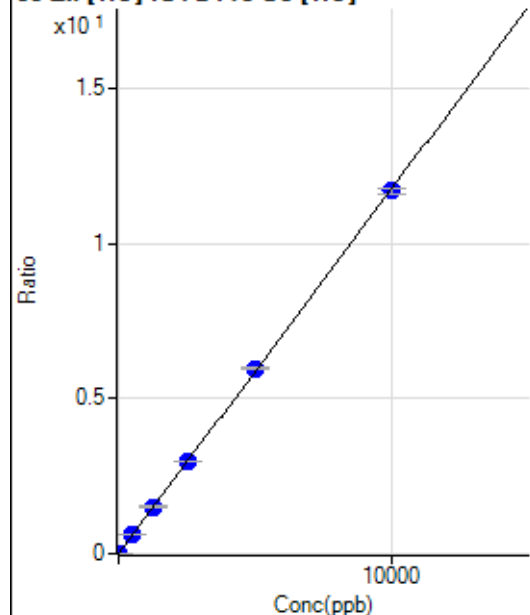
$$R = 0.9999$$

$$DL = 0.2296$$

$$BEC = 0.4335$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 77.78      | 0.0007  | P        | 19.2 |
| 2 | <input type="checkbox"/> | 2.000     | 1.909      | 351.12     | 0.0029  | P        | 5.8  |
| 3 | <input type="checkbox"/> | 500.000   | 513.705    | 73219.92   | 0.6055  | P        | 1.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1277.822   | 181374.92  | 1.5051  | P        | 2.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2532.630   | 365406.98  | 2.9825  | P        | 0.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5078.418   | 733182.00  | 5.9799  | P        | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9948.470   | 1456227.84 | 11.7138 | P        | 1.5  |
| 8 | <input type="checkbox"/> |           |            | 2123.51    | 0.0170  | P        | 8.6  |

$$y = 0.0012 * x + 6.5119E-004$$

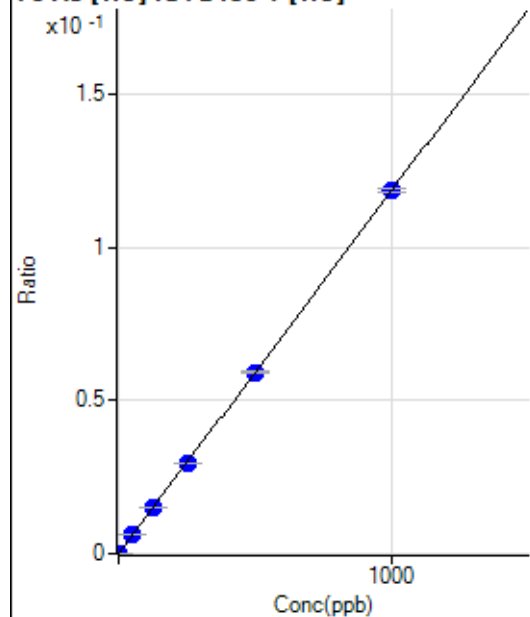
R = 0.9999

DL = 0.3188

BEC = 0.5531

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.33      | 0.0000 | P        | 26.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.920      | 102.01    | 0.0001 | P        | 14.5 |
| 3 | <input type="checkbox"/> | 50.000   | 50.983     | 5449.27   | 0.0060 | P        | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.032    | 13552.19  | 0.0150 | P        | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 248.254    | 27055.50  | 0.0294 | P        | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 500.695    | 54908.72  | 0.0593 | P        | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.786    | 110780.71 | 0.1184 | P        | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 38.33     | 0.0000 | P        | 21.6 |

$$y = 1.1839E-004 * x + 4.8777E-006$$

R = 1.0000

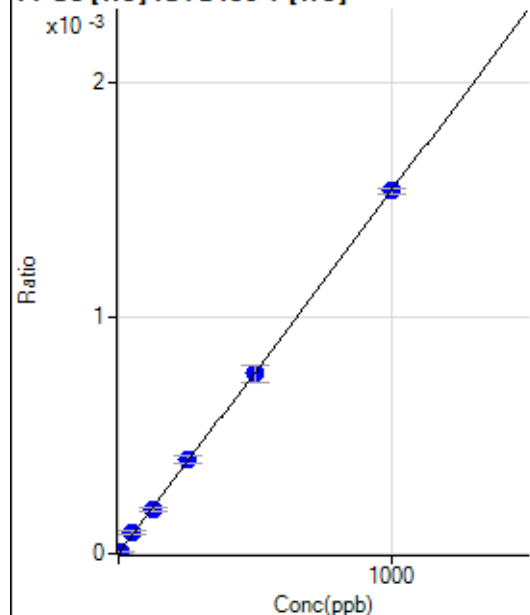
DL = 0.03268

BEC = 0.0412

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | RSD   |
|---|--------------------------|----------|------------|---------|--------|----------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11    | 0.0000 | P        | 173.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.621      | 8.89    | 0.0000 | P        | 21.8  |
| 3 | <input type="checkbox"/> | 50.000   | 56.784     | 80.00   | 0.0001 | P        | 14.8  |
| 4 | <input type="checkbox"/> | 125.000  | 122.703    | 171.11  | 0.0002 | P        | 10.4  |
| 5 | <input type="checkbox"/> | 250.000  | 257.937    | 366.68  | 0.0004 | P        | 9.0   |
| 6 | <input type="checkbox"/> | 500.000  | 496.457    | 708.91  | 0.0008 | P        | 9.2   |
| 7 | <input type="checkbox"/> | 1000.000 | 999.732    | 1441.20 | 0.0015 | P        | 1.5   |
| 8 | <input type="checkbox"/> |          |            | 1.11    | 0.0000 | P        | 173.2 |

$$y = 1.5390\text{E-}006 * x + 1.2683\text{E-}006$$

$$R = 0.9999$$

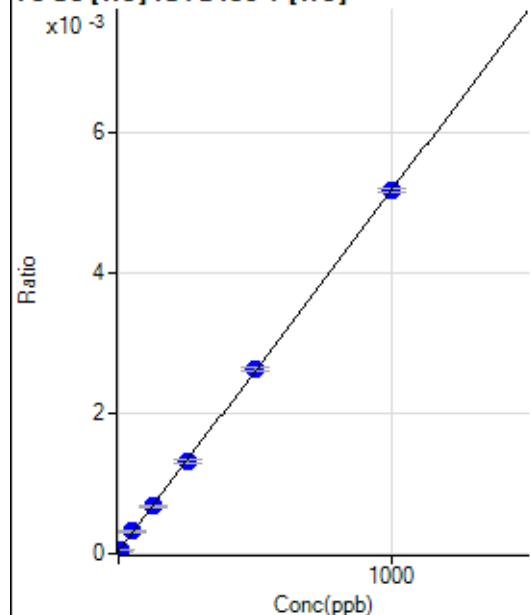
$$DL = 4.282$$

$$BEC = 0.8241$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|---------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 35.67   | 0.0000 | P        | 18.3 |
| 2 | <input type="checkbox"/> | 5.000    | 3.246      | 51.01   | 0.0001 | P        | 18.0 |
| 3 | <input type="checkbox"/> | 50.000   | 53.915     | 285.70  | 0.0003 | P        | 12.3 |
| 4 | <input type="checkbox"/> | 125.000  | 124.700    | 612.41  | 0.0007 | P        | 5.2  |
| 5 | <input type="checkbox"/> | 250.000  | 248.208    | 1209.18 | 0.0013 | P        | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 503.439    | 2430.13 | 0.0026 | P        | 2.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.579    | 4833.32 | 0.0052 | P        | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 42.00   | 0.0000 | P        | 9.6  |

$$y = 5.1314\text{E-}006 * x + 4.0176\text{E-}005$$

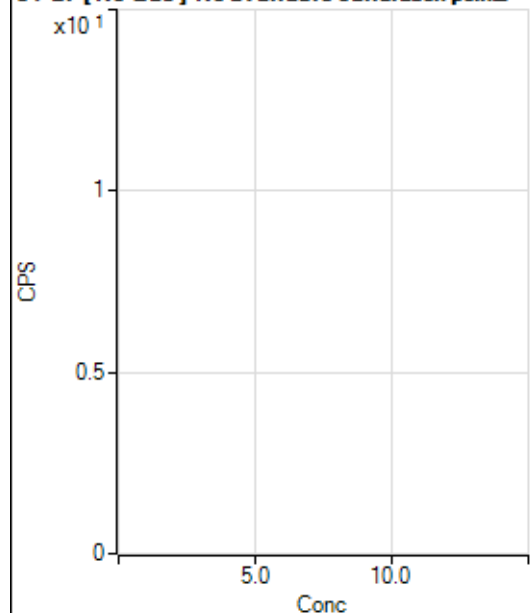
$$R = 1.0000$$

$$DL = 4.289$$

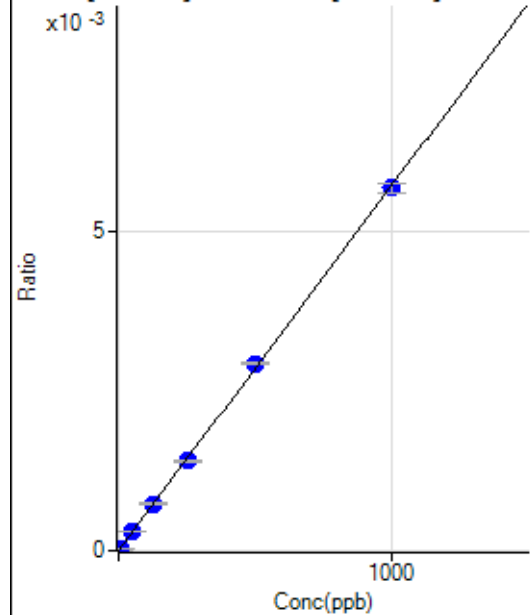
$$BEC = 7.83$$

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"/> |       |            | 2536.19 |       | P        | 5.0  |
| 2 | <input type="checkbox"/> |       |            | 2355.97 |       | P        | 9.7  |
| 3 | <input type="checkbox"/> |       |            | 2315.93 |       | P        | 4.0  |
| 4 | <input type="checkbox"/> |       |            | 2506.14 |       | P        | 6.1  |
| 5 | <input type="checkbox"/> |       |            | 2449.40 |       | P        | 3.3  |
| 6 | <input type="checkbox"/> |       |            | 2446.07 |       | P        | 11.8 |
| 7 | <input type="checkbox"/> |       |            | 2399.35 |       | P        | 8.3  |
| 8 | <input type="checkbox"/> |       |            | 2632.97 |       | P        | 10.5 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD   |
|---|--------------------------|----------|------------|----------|--------|----------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 10.12    | 0.0000 | P        | 623.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.604      | 218.32   | 0.0000 | P        | 17.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.877     | 2339.60  | 0.0003 | P        | 2.3   |
| 4 | <input type="checkbox"/> | 125.000  | 128.149    | 5841.95  | 0.0007 | P        | 6.2   |
| 5 | <input type="checkbox"/> | 250.000  | 245.492    | 11669.07 | 0.0014 | P        | 0.6   |
| 6 | <input type="checkbox"/> | 500.000  | 513.003    | 23523.43 | 0.0029 | P        | 1.4   |
| 7 | <input type="checkbox"/> | 1000.000 | 994.190    | 47332.23 | 0.0057 | P        | 2.9   |
| 8 | <input type="checkbox"/> |          |            | -23.79   | 0.0000 | P        | -135. |

$$y = 5.7195\text{E-}006 * x + 1.2482\text{E-}006$$

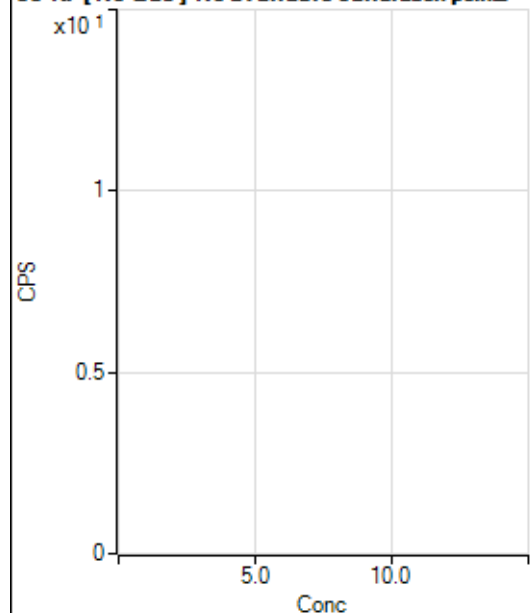
$$R = 0.9999$$

$$DL = 4.084$$

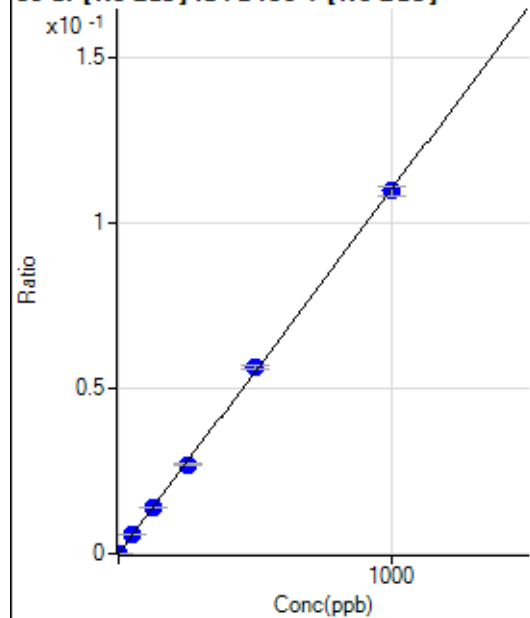
$$BEC = 0.2182$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 380.01 |       | P        | 13.9 |
| 2 | <input type="checkbox"/> |       |            | 372.23 |       | P        | 6.8  |
| 3 | <input type="checkbox"/> |       |            | 380.01 |       | P        | 5.3  |
| 4 | <input type="checkbox"/> |       |            | 346.67 |       | P        | 6.7  |
| 5 | <input type="checkbox"/> |       |            | 367.78 |       | P        | 3.8  |
| 6 | <input type="checkbox"/> |       |            | 373.34 |       | P        | 6.7  |
| 7 | <input type="checkbox"/> |       |            | 392.23 |       | P        | 10.6 |
| 8 | <input type="checkbox"/> |       |            | 426.68 |       | P        | 4.1  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 536.14    | 0.0001 | P        | 30.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.001      | 1405.66   | 0.0002 | P        | 6.4  |
| 3 | <input type="checkbox"/> | 50.000   | 50.278     | 44786.21  | 0.0056 | P        | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 126.009    | 110843.21 | 0.0139 | P        | 3.8  |
| 5 | <input type="checkbox"/> | 250.000  | 243.196    | 222516.67 | 0.0268 | P        | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 510.744    | 450388.71 | 0.0562 | P        | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.189    | 911936.98 | 0.1096 | P        | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 5426.18   | 0.0007 | P        | 1.9  |

$$y = 1.0993E-004 * x + 6.7589E-005$$

$$R = 0.9999$$

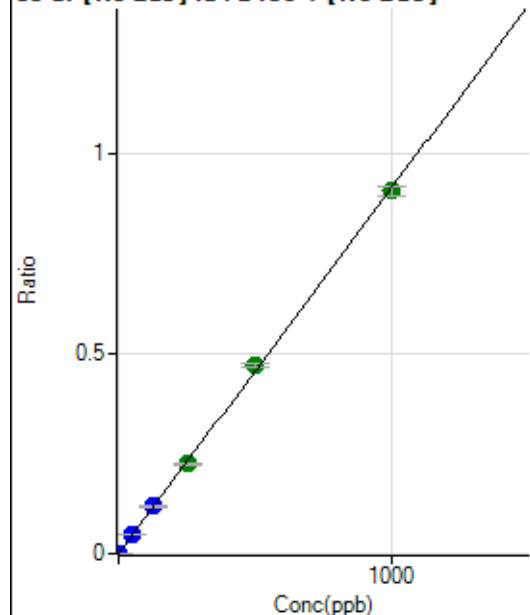
$$DL = 0.5608$$

$$BEC = 0.6149$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.56     | 0.0000 | P   | 16.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.961      | 7088.09    | 0.0009 | P   | 5.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.022     | 373915.84  | 0.0467 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 128.991    | 939571.27  | 0.1180 | P   | 5.2  |
| 5 | <input type="checkbox"/> | 250.000  | 245.722    | 1866880.79 | 0.2249 | A   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 516.046    | 3783462.45 | 0.4722 | A   | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.496    | 7557865.27 | 0.9081 | A   | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 41609.82   | 0.0051 | P   | 3.7  |

$$y = 9.1499\text{E-}004 * x + 1.6481\text{E-}005$$

$$R = 0.9998$$

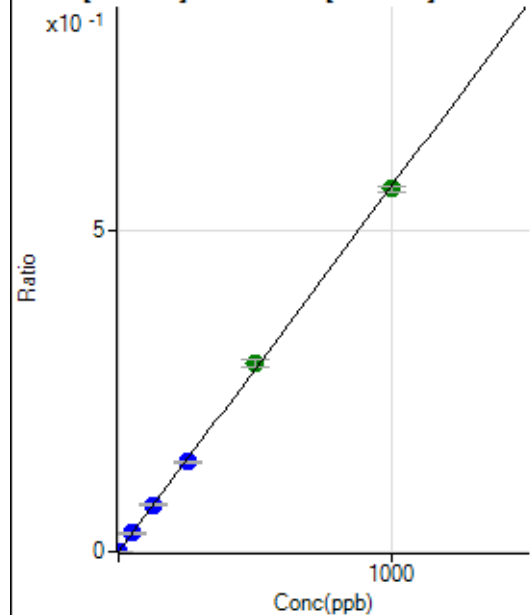
$$DL = 0.009145$$

$$BEC = 0.01801$$

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      | 383.35     | 0.0000 | P   | 7.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.905      | 4461.96    | 0.0006 | P   | 4.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.115     | 228989.73  | 0.0286 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 126.861    | 575643.16  | 0.0723 | P   | 5.1 |
| 5 | <input type="checkbox"/> | 250.000  | 246.765    | 1167519.32 | 0.1406 | P   | 2.3 |
| 6 | <input type="checkbox"/> | 500.000  | 515.674    | 2353974.33 | 0.2938 | A   | 3.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.733    | 4707763.26 | 0.5656 | A   | 1.4 |
| 8 | <input type="checkbox"/> |          |            | 1558.46    | 0.0002 | P   | 6.8 |

$$y = 5.6968\text{E-}004 * x + 4.8347\text{E-}005$$

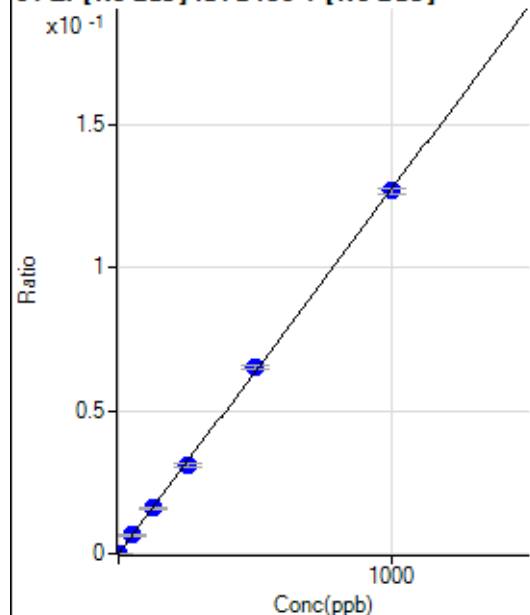
$$R = 0.9998$$

$$DL = 0.01962$$

$$BEC = 0.08487$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 66.67      | 0.0000 | P        | 12.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.940      | 1013.95    | 0.0001 | P        | 4.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.213     | 51214.30   | 0.0064 | P        | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 124.519    | 126165.22  | 0.0159 | P        | 5.6  |
| 5 | <input type="checkbox"/> | 250.000  | 243.049    | 256827.25  | 0.0309 | P        | 3.2  |
| 6 | <input type="checkbox"/> | 500.000  | 512.431    | 522515.22  | 0.0652 | P        | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.572    | 1054467.49 | 0.1267 | P        | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 300.01     | 0.0000 | P        | 22.9 |

$$y = 1.2724\text{E-}004 * x + 8.4097\text{E-}006$$

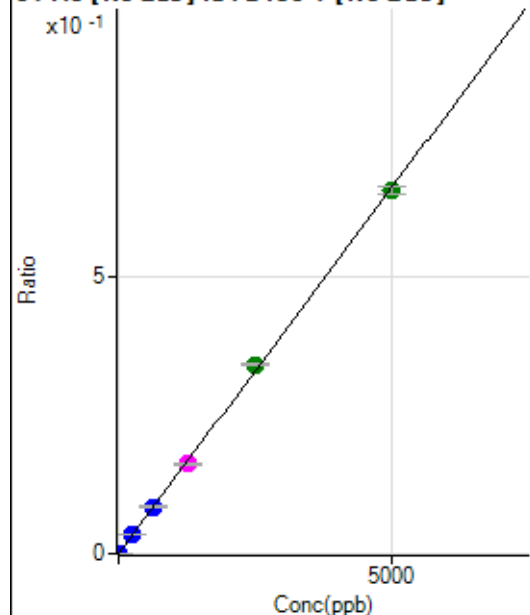
$$R = 0.9999$$

$$DL = 0.0254$$

$$BEC = 0.06609$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.78     | 0.0000 | P        | 41.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.744      | 5073.28    | 0.0006 | P        | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 254.076    | 269313.86  | 0.0336 | P        | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 637.275    | 671293.15  | 0.0843 | P        | 5.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1231.475   | 1353094.56 | 0.1630 | M        | 2.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2583.231   | 2739430.06 | 0.3419 | A        | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4961.278   | 5464814.05 | 0.6566 | A        | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 1741.82    | 0.0002 | P        | 5.8  |

$$y = 1.3233\text{E-}004 * x + 1.2992\text{E-}005$$

$$R = 0.9998$$

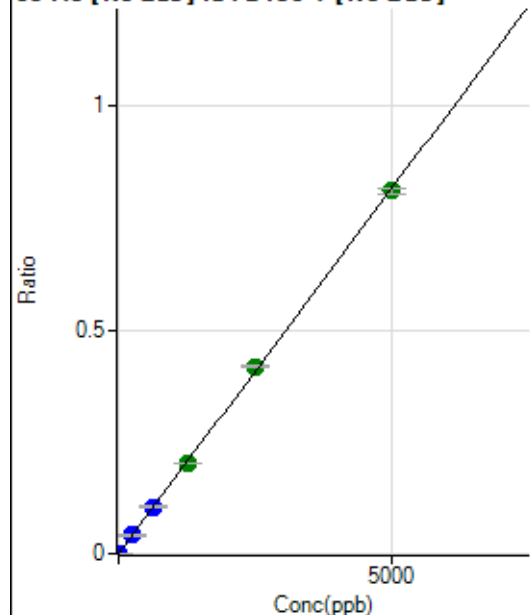
$$DL = 0.1206$$

$$BEC = 0.09818$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0000 | P        | 61.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.638      | 6023.68    | 0.0008 | P        | 2.1  |
| 3 | <input type="checkbox"/> | 250.000  | 251.918    | 328787.18  | 0.0411 | P        | 2.4  |
| 4 | <input type="checkbox"/> | 625.000  | 637.526    | 827318.04  | 0.1039 | P        | 4.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1233.494   | 1669526.77 | 0.2011 | A        | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2563.036   | 3347972.97 | 0.4178 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4970.947   | 6745079.49 | 0.8103 | A        | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 1944.64    | 0.0002 | P        | 17.1 |

$$y = 1.6301\text{E-}004 * x + 4.8898\text{E-}006$$

$$R = 0.9999$$

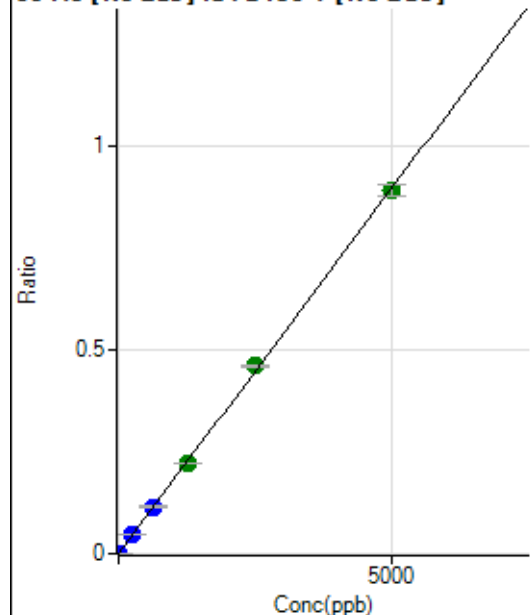
$$DL = 0.05495$$

$$BEC = 0.03$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 86.11      | 0.0000 | P        | 57.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.692      | 6737.94    | 0.0009 | P        | 1.1  |
| 3 | <input type="checkbox"/> | 250.000  | 253.096    | 362939.93  | 0.0453 | P        | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 641.012    | 914025.91  | 0.1148 | P        | 4.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1235.455   | 1836875.26 | 0.2212 | A        | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2567.522   | 3684090.75 | 0.4598 | A        | 1.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4967.719   | 7402841.48 | 0.8895 | A        | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 2530.84    | 0.0003 | P        | 6.0  |

$$y = 1.7906\text{E-}004 * x + 1.0896\text{E-}005$$

$$R = 0.9999$$

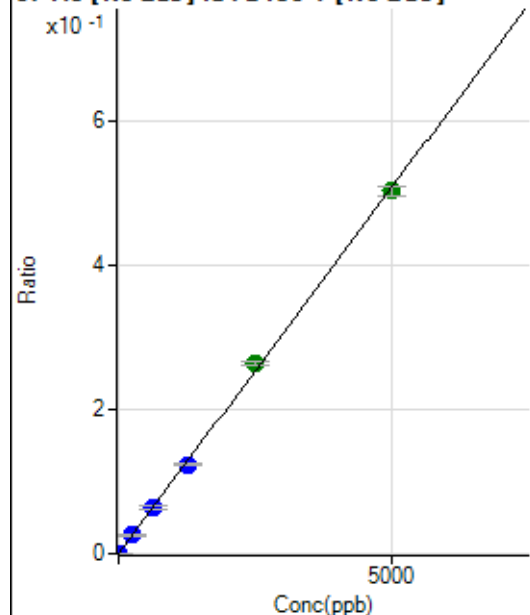
$$DL = 0.1052$$

$$BEC = 0.06085$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89      | 0.0000 | P        | 34.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.634      | 3728.39    | 0.0005 | P        | 9.0  |
| 3 | <input type="checkbox"/> | 250.000  | 250.597    | 203183.51  | 0.0254 | P        | 2.4  |
| 4 | <input type="checkbox"/> | 625.000  | 630.229    | 507920.08  | 0.0638 | P        | 5.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1213.088   | 1020023.23 | 0.1229 | P        | 2.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2601.384   | 2111108.95 | 0.2634 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4957.853   | 4179457.73 | 0.5021 | A        | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 1258.42    | 0.0002 | P        | 12.6 |

$$y = 1.0127\text{E-}004 * x + 1.7482\text{E-}006$$

$$R = 0.9997$$

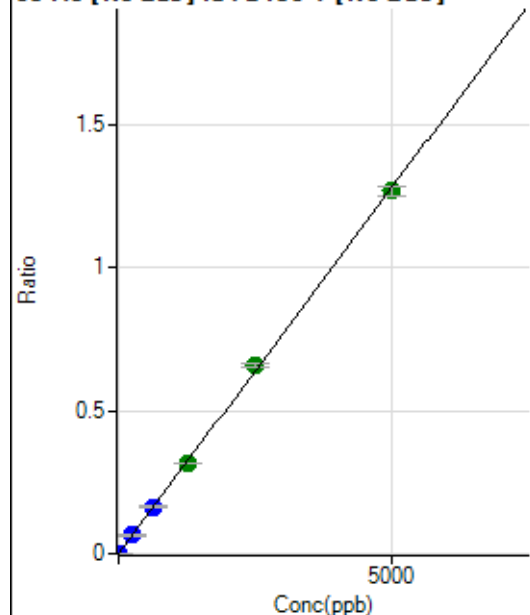
$$DL = 0.01764$$

$$BEC = 0.01726$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.11       | 0.0000 | P        | 86.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.621      | 9375.66     | 0.0012 | P        | 1.9  |
| 3 | <input type="checkbox"/> | 250.000  | 251.664    | 515705.96   | 0.0644 | P        | 2.6  |
| 4 | <input type="checkbox"/> | 625.000  | 639.424    | 1302709.31  | 0.1637 | P        | 5.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1232.647   | 2619942.16  | 0.3155 | A        | 1.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2581.545   | 5294920.56  | 0.6608 | A        | 2.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4961.680   | 10570005.96 | 1.2700 | A        | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 3183.78     | 0.0004 | P        | 10.0 |

$$y = 2.5597\text{E-}004 * x + 1.3947\text{E-}006$$

$$R = 0.9998$$

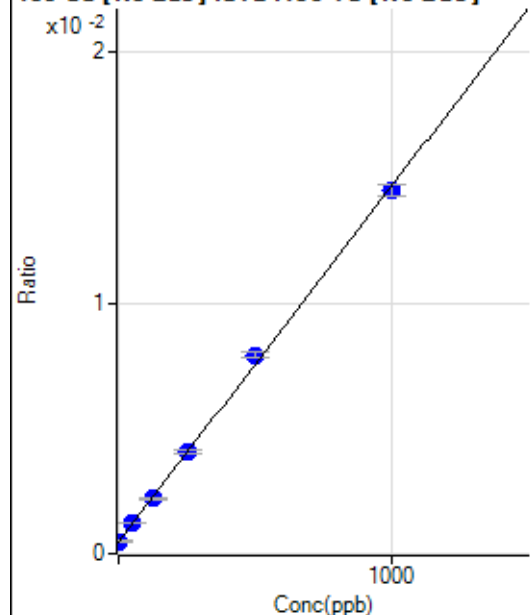
$$DL = 0.01416$$

$$BEC = 0.005449$$

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      | 2039.10  | 0.0005 | P   | 8.7  |
| 2 | <input type="checkbox"/> | 1.000    | 1.392      | 2094.66  | 0.0005 | P   | 10.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.738     | 5256.70  | 0.0012 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 121.611    | 9628.65  | 0.0022 | P   | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 253.692    | 18256.91 | 0.0041 | P   | 3.6  |
| 6 | <input type="checkbox"/> | 500.000  | 524.469    | 34697.00 | 0.0079 | P   | 2.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.179    | 66946.04 | 0.0145 | P   | 3.1  |
| 8 | <input type="checkbox"/> |          |            | 2136.34  | 0.0005 | P   | 6.6  |

$$y = 1.4184\text{E-}005 * x + 4.6767\text{E-}004$$

$$R = 0.9995$$

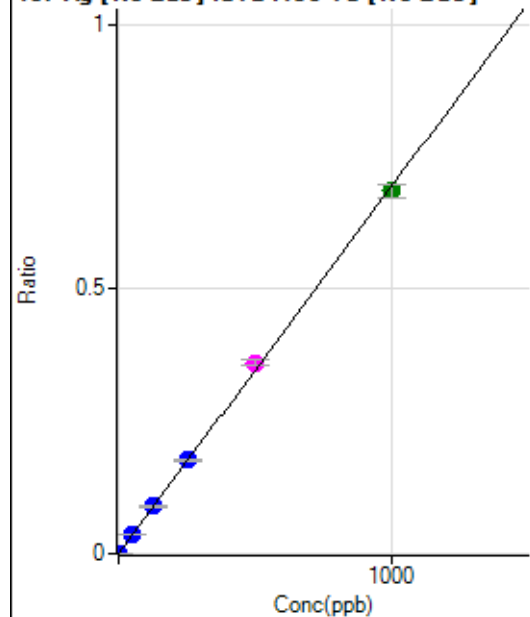
$$DL = 8.615$$

$$BEC = 32.97$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.44      | 0.0000 | P   | 61.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.978      | 2955.96    | 0.0007 | P   | 6.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.173     | 158246.69  | 0.0362 | P   | 2.1  |
| 4 | <input type="checkbox"/> | 125.000  | 128.933    | 391714.77  | 0.0894 | P   | 6.0  |
| 5 | <input type="checkbox"/> | 250.000  | 254.191    | 791207.86  | 0.1762 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 520.475    | 1583385.93 | 0.3608 | M   | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.114    | 3168653.70 | 0.6849 | A   | 3.4  |
| 8 | <input type="checkbox"/> |          |            | 1741.83    | 0.0004 | P   | 8.4  |

$$y = 6.9312\text{E-}004 * x + 1.0222\text{E-}005$$

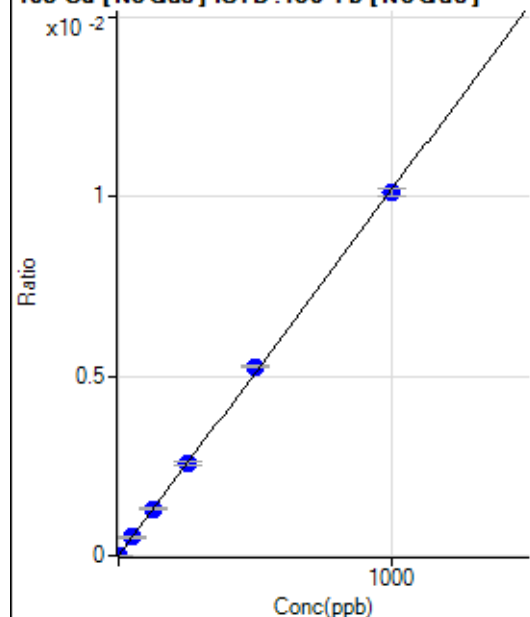
$$R = 0.9997$$

$$DL = 0.02697$$

$$BEC = 0.01475$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|----------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33     | 0.0000 | P   | 132.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.049      | 54.17    | 0.0000 | P   | 27.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.697     | 2266.89  | 0.0005 | P   | 7.5   |
| 4 | <input type="checkbox"/> | 125.000  | 127.739    | 5708.20  | 0.0013 | P   | 6.5   |
| 5 | <input type="checkbox"/> | 250.000  | 251.936    | 11528.57 | 0.0026 | P   | 2.8   |
| 6 | <input type="checkbox"/> | 500.000  | 515.035    | 23026.29 | 0.0052 | P   | 1.0   |
| 7 | <input type="checkbox"/> | 1000.000 | 991.621    | 46731.61 | 0.0101 | P   | 2.2   |
| 8 | <input type="checkbox"/> |          |            | 51.39    | 0.0000 | P   | 21.3  |

$$y = 1.0182\text{E-}005 * x + 1.9248\text{E-}006$$

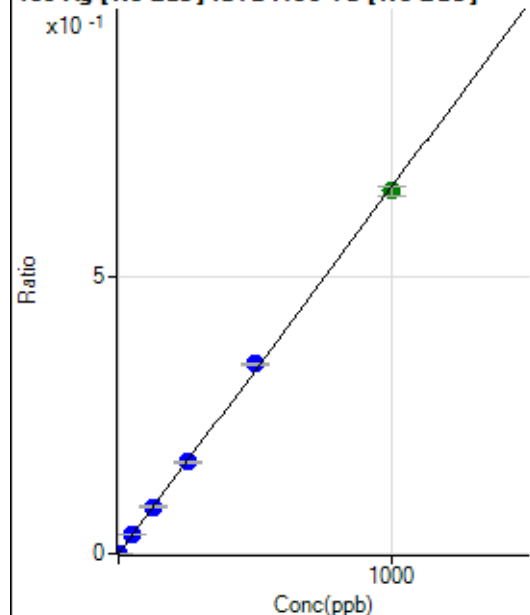
$$R = 0.9998$$

$$DL = 0.7497$$

$$BEC = 0.189$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22      | 0.0000 | P   | 22.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.939      | 2694.78    | 0.0006 | P   | 4.7  |
| 3 | <input type="checkbox"/> | 50.000   | 50.720     | 147028.61  | 0.0336 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 127.398    | 370047.37  | 0.0844 | P   | 5.0  |
| 5 | <input type="checkbox"/> | 250.000  | 251.443    | 748066.35  | 0.1666 | P   | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 518.946    | 1508903.04 | 0.3438 | P   | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.831    | 3034259.83 | 0.6557 | A   | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 1455.67    | 0.0003 | P   | 8.5  |

$$y = 6.6246\text{E-}004 * x + 5.1053\text{E-}006$$

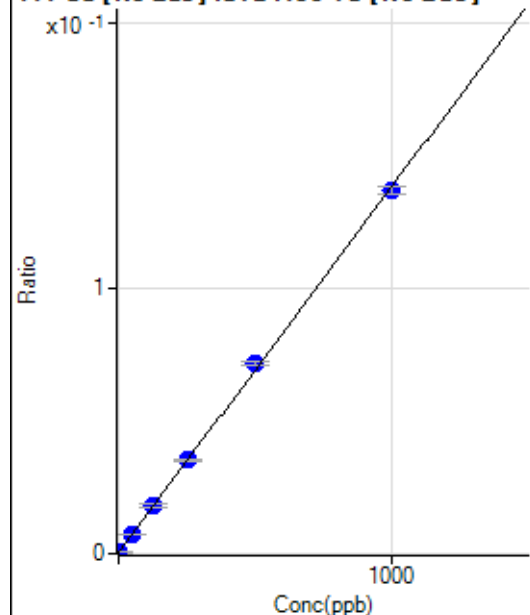
$$R = 0.9997$$

$$DL = 0.005271$$

$$BEC = 0.007707$$

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      | 1432.65   | 0.0003 | P   | 8.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.113      | 2071.43   | 0.0005 | P   | 7.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.683     | 32032.35  | 0.0073 | P   | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 128.301    | 79034.73  | 0.0180 | P   | 5.8 |
| 5 | <input type="checkbox"/> | 250.000  | 252.656    | 158008.98 | 0.0352 | P   | 2.5 |
| 6 | <input type="checkbox"/> | 500.000  | 518.622    | 315511.21 | 0.0719 | P   | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.578    | 633352.93 | 0.1369 | P   | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 1691.41   | 0.0004 | P   | 5.8 |

$$y = 1.3798\text{E-}004 * x + 3.2856\text{E-}004$$

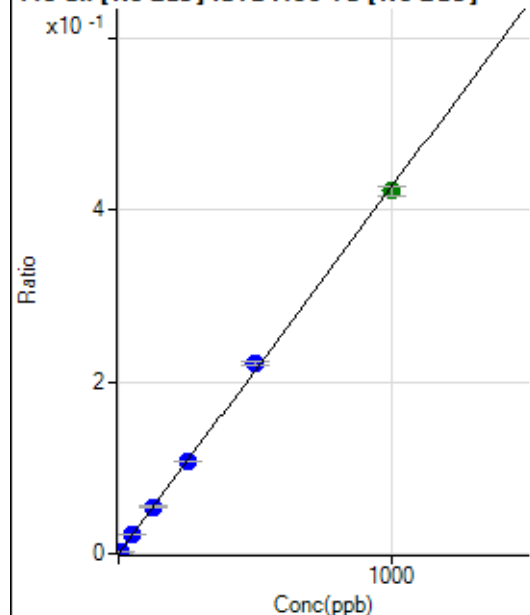
$$R = 0.9997$$

$$DL = 0.6205$$

$$BEC = 2.381$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 144.45     | 0.0000 | P   | 32.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.820      | 8986.55    | 0.0021 | P   | 3.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.436     | 96226.40   | 0.0220 | P   | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 127.651    | 239134.81  | 0.0545 | P   | 4.9  |
| 5 | <input type="checkbox"/> | 250.000  | 251.012    | 481471.90  | 0.1072 | P   | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 520.322    | 975284.51  | 0.2222 | P   | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.184    | 1954637.18 | 0.4224 | A   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 513.91     | 0.0001 | P   | 13.2 |

$$y = 4.2700\text{E-}004 * x + 3.3215\text{E-}005$$

$$R = 0.9997$$

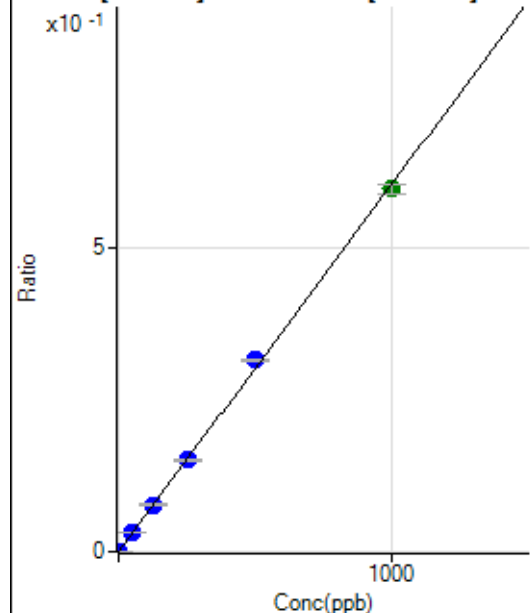
$$DL = 0.07656$$

$$BEC = 0.07779$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 16.67      | 0.0000 | P   | 50.9 |
| 2 | <input type="checkbox"/> | 2.000    | 1.844      | 4789.85    | 0.0011 | P   | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.350     | 135312.60  | 0.0309 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 128.200    | 338441.93  | 0.0772 | P   | 5.7  |
| 5 | <input type="checkbox"/> | 250.000  | 250.660    | 677919.48  | 0.1510 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 521.762    | 1379132.19 | 0.3142 | P   | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.487    | 2754499.28 | 0.5953 | A   | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 1530.69    | 0.0003 | P   | 0.9  |

$$y = 6.0225\text{E-}004 * x + 3.8368\text{E-}006$$

$$R = 0.9996$$

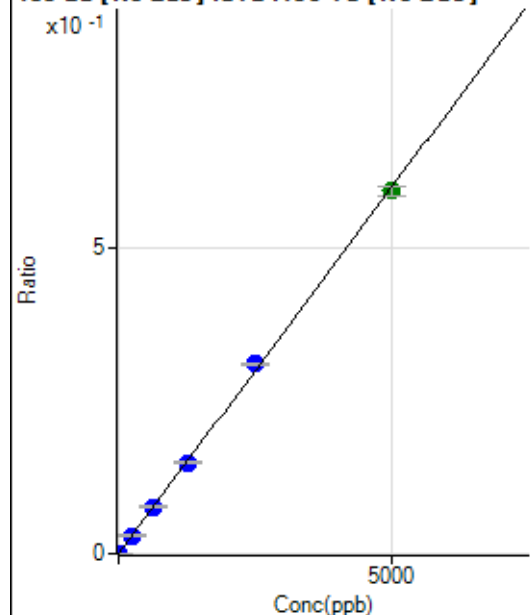
$$DL = 0.009719$$

$$BEC = 0.006371$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 25.00      | 0.0000 | P   | 34.2 |
| 2 | <input type="checkbox"/> | 10.000   | 9.451      | 4873.23    | 0.0011 | P   | 4.4  |
| 3 | <input type="checkbox"/> | 250.000  | 249.411    | 130323.22  | 0.0298 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 625.000  | 637.742    | 333846.64  | 0.0762 | P   | 5.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1244.039   | 667097.37  | 0.1486 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2591.237   | 1358020.55 | 0.3094 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4954.310   | 2737198.24 | 0.5916 | A   | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 4656.46    | 0.0010 | P   | 0.3  |

$$y = 1.1941\text{E-}004 * x + 5.7464\text{E-}006$$

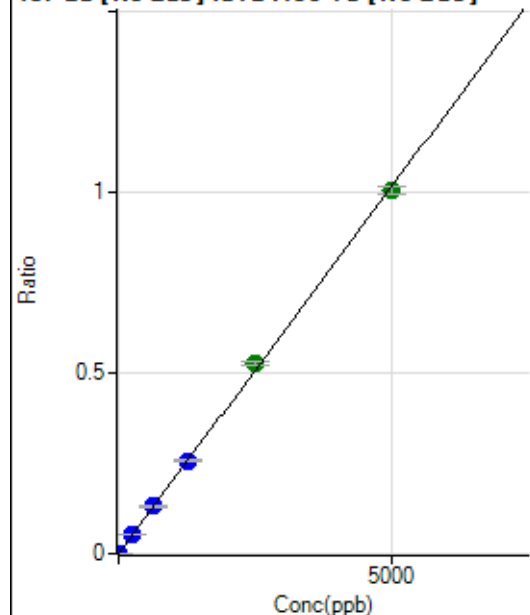
$$R = 0.9997$$

$$DL = 0.04944$$

$$BEC = 0.04812$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P        | 46.5 |
| 2 | <input type="checkbox"/> | 10.000   | 9.908      | 8666.92    | 0.0020 | P        | 1.7  |
| 3 | <input type="checkbox"/> | 250.000  | 254.396    | 225882.84  | 0.0516 | P        | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 644.353    | 573166.96  | 0.1308 | P        | 5.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1266.059   | 1153649.02 | 0.2569 | P        | 2.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2599.220   | 2315085.06 | 0.5275 | A        | 1.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4943.737   | 4642173.19 | 1.0032 | A        | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 8202.69    | 0.0018 | P        | 1.9  |

$$y = 2.0292E-004 * x + 6.3757E-006$$

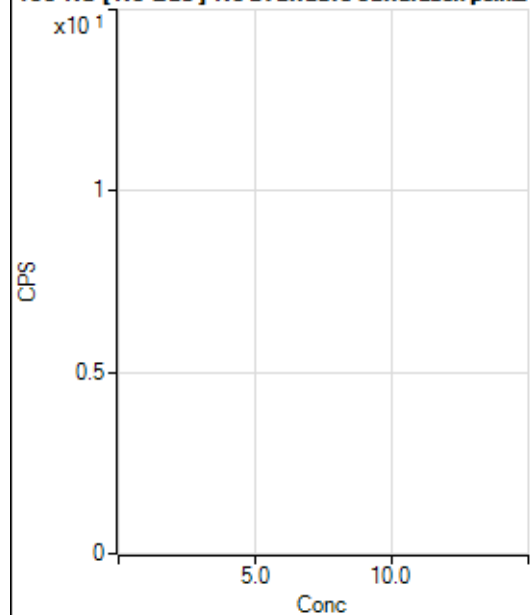
$$R = 0.9997$$

$$DL = 0.0438$$

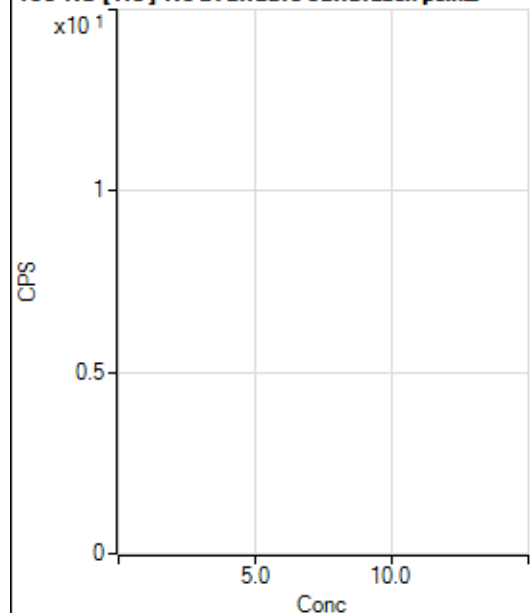
$$BEC = 0.03142$$

Weight: &lt;None&gt;

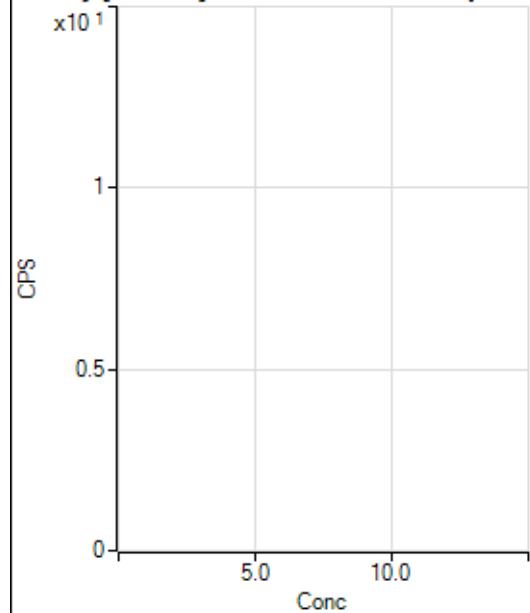
Min Conc: 0

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

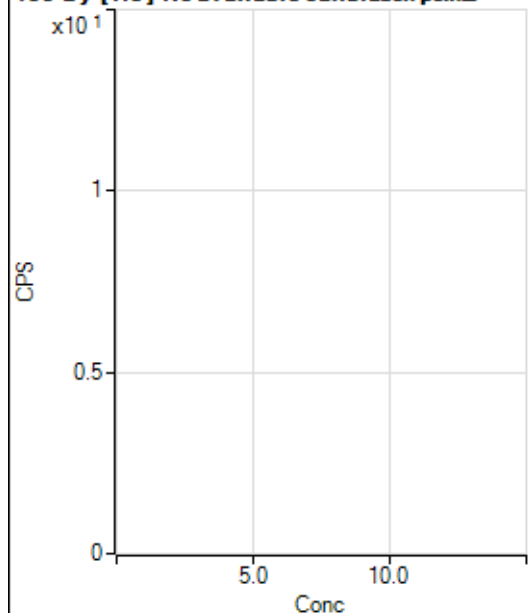
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 100.0 |
| 2 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6  |
| 3 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 49.5  |
| 4 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 86.6  |
| 5 | <input type="checkbox"/> |       |            | 44.44  |       | P        | 22.9  |
| 6 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 27.0  |
| 7 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 35.3  |
| 8 | <input type="checkbox"/> |       |            | 15.55  |       | P        | 24.8  |

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

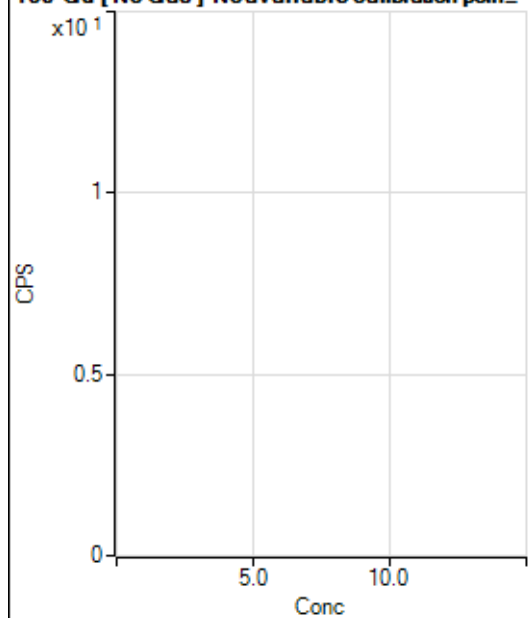
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS  | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 1.11 |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            | 0.00 |       | P        |       |
| 3 | <input type="checkbox"/> |       |            | 5.55 |       | P        | 124.9 |
| 4 | <input type="checkbox"/> |       |            | 1.11 |       | P        | 173.2 |
| 5 | <input type="checkbox"/> |       |            | 2.22 |       | P        | 86.6  |
| 6 | <input type="checkbox"/> |       |            | 7.78 |       | P        | 49.5  |
| 7 | <input type="checkbox"/> |       |            | 6.67 |       | P        | 86.6  |
| 8 | <input type="checkbox"/> |       |            | 2.22 |       | P        | 173.2 |

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

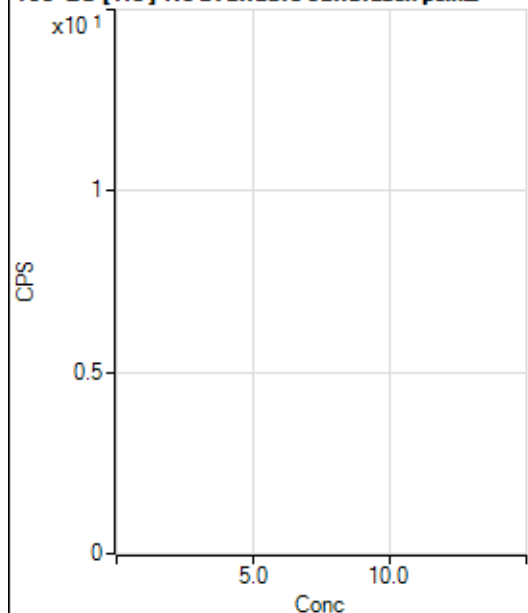
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 27.78  |       | P        | 45.8 |
| 5 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 48.0 |
| 6 | <input type="checkbox"/> |       |            | 30.56  |       | P        | 56.8 |
| 7 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 60.6 |
| 8 | <input type="checkbox"/> |       |            | 130.56 |       | P        | 16.1 |

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

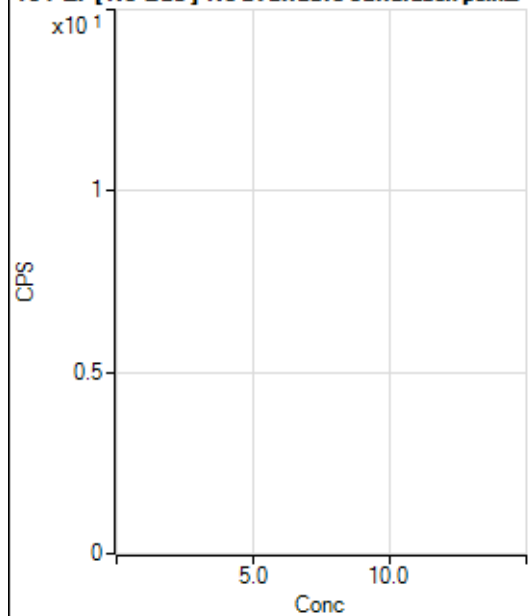
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|-------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100.1 |
| 2 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0   |
| 3 | <input type="checkbox"/> |       |            | 4.45  |       | P        | 86.6  |
| 4 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 114.6 |
| 5 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 25.0  |
| 6 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 17.3  |
| 7 | <input type="checkbox"/> |       |            | 20.00 |       | P        | 50.0  |
| 8 | <input type="checkbox"/> |       |            | 74.45 |       | P        | 18.1  |

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

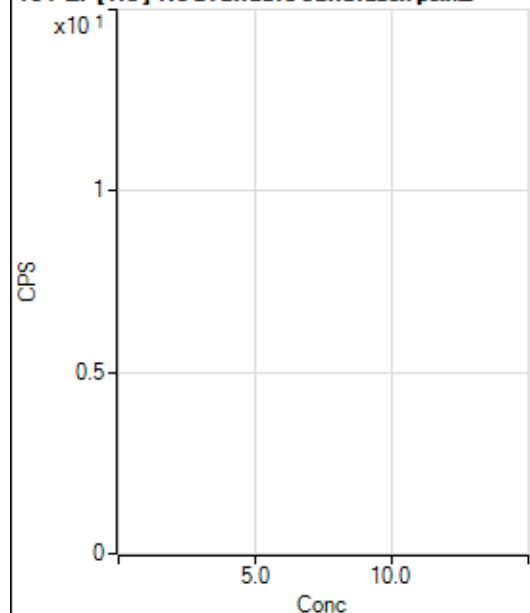
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 52.78  |       | P        | 45.6 |
| 2 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 56.7 |
| 3 | <input type="checkbox"/> |       |            | 36.11  |       | P        | 13.3 |
| 4 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 49.5 |
| 5 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 16.7 |
| 6 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 91.67  |       | P        | 32.8 |
| 8 | <input type="checkbox"/> |       |            | 219.45 |       | P        | 17.9 |

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

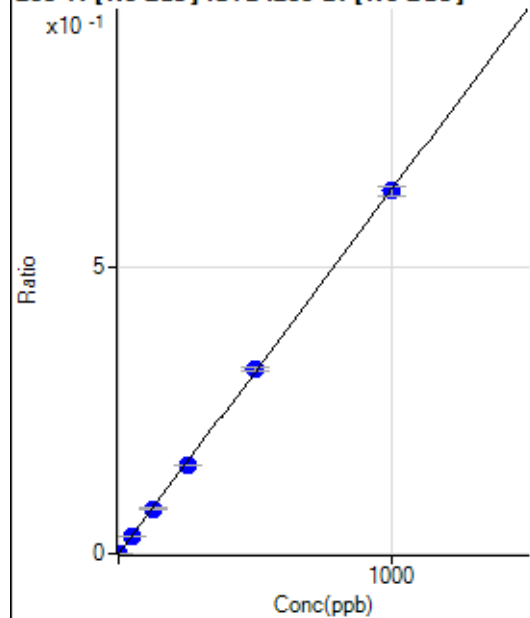
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 51.0 |
| 2 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 41.7 |
| 3 | <input type="checkbox"/> |       |            | 15.55 |       | P        | 24.8 |
| 4 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 63.0 |
| 5 | <input type="checkbox"/> |       |            | 24.44 |       | P        | 67.3 |
| 6 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 47.2 |
| 7 | <input type="checkbox"/> |       |            | 41.11 |       | P        | 20.4 |
| 8 | <input type="checkbox"/> |       |            | 97.78 |       | P        | 21.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 48.0 |
| 3 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 94.4 |
| 4 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 75.5 |
| 5 | <input type="checkbox"/> |       |            | 27.78 |       | P        | 62.5 |
| 6 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 43.3 |
| 7 | <input type="checkbox"/> |       |            | 33.34 |       | P        | 43.3 |
| 8 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 33.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 56.8 |
| 2 | <input type="checkbox"/> |       |            | 11.11 |       | P        | 75.5 |
| 3 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 56.8 |
| 4 | <input type="checkbox"/> |       |            | 7.78  |       | P        | 49.5 |
| 5 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 86.6 |
| 6 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 57.3 |
| 7 | <input type="checkbox"/> |       |            | 16.67 |       | P        | 40.0 |
| 8 | <input type="checkbox"/> |       |            | 28.89 |       | P        | 26.6 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD   |
|---|--------------------------|----------|------------|------------|--------|----------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2.78       | 0.0000 | P        | 173.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.902      | 1252.87    | 0.0006 | P        | 10.3  |
| 3 | <input type="checkbox"/> | 50.000   | 49.222     | 69665.03   | 0.0313 | P        | 1.9   |
| 4 | <input type="checkbox"/> | 125.000  | 123.468    | 174236.09  | 0.0784 | P        | 4.7   |
| 5 | <input type="checkbox"/> | 250.000  | 244.993    | 352779.57  | 0.1556 | P        | 0.7   |
| 6 | <input type="checkbox"/> | 500.000  | 508.149    | 719747.25  | 0.3227 | P        | 1.7   |
| 7 | <input type="checkbox"/> | 1000.000 | 997.408    | 1467158.67 | 0.6333 | P        | 2.7   |
| 8 | <input type="checkbox"/> |          |            | 941.73     | 0.0004 | P        | 6.3   |

$$y = 6.3496E-004 * x + 1.2589E-006$$

$$R = 0.9999$$

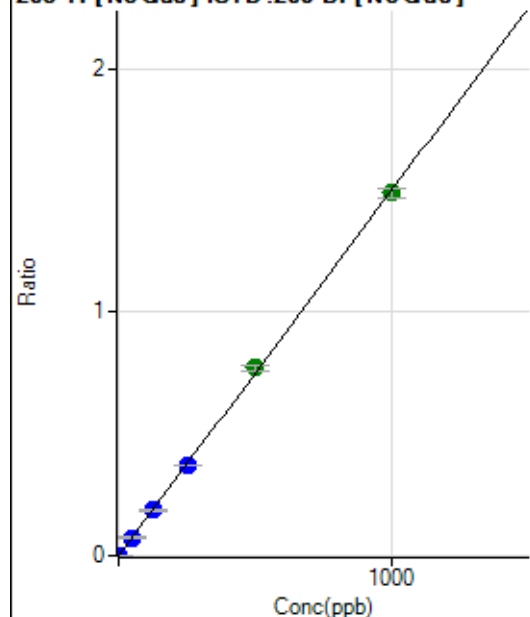
$$DL = 0.0103$$

$$BEC = 0.001983$$

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      | 16.67      | 0.0000 | P   | 49.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.970      | 3194.93    | 0.0015 | P   | 5.3  |
| 3 | <input type="checkbox"/> | 50.000   | 49.933     | 167006.63  | 0.0749 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 125.070    | 416953.15  | 0.1877 | P   | 5.6  |
| 5 | <input type="checkbox"/> | 250.000  | 247.920    | 843622.47  | 0.3720 | P   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 513.641    | 1718944.24 | 0.7707 | A   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.694    | 3454533.54 | 1.4910 | A   | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 2261.38    | 0.0010 | P   | 8.0  |

$$y = 0.0015 * x + 7.5758E-006$$

$$R = 0.9999$$

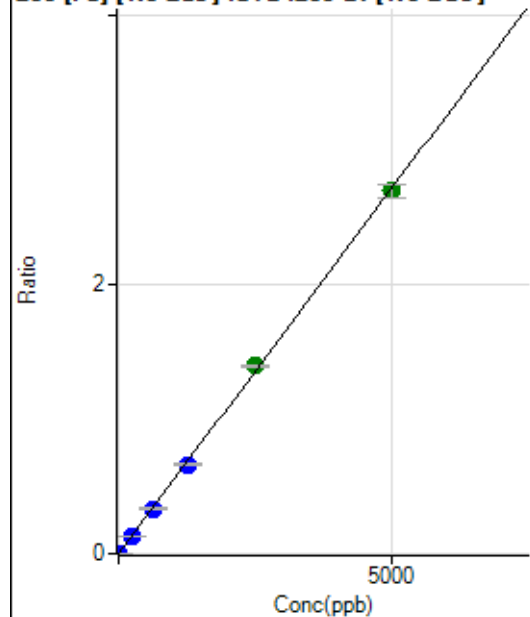
$$DL = 0.007529$$

$$BEC = 0.005049$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 140.75     | 0.0001 | P   | 36.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.969      | 1287.13    | 0.0006 | P   | 3.4  |
| 3 | <input type="checkbox"/> | 250.000  | 244.555    | 295755.75  | 0.1327 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 615.617    | 742025.13  | 0.3339 | P   | 5.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1223.868   | 1505320.10 | 0.6638 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2576.277   | 3117092.87 | 1.3972 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4969.840   | 6242905.29 | 2.6953 | A   | 3.6  |
| 8 | <input type="checkbox"/> |          |            | 1214.90    | 0.0006 | P   | 9.6  |

$$y = 5.4231E-004 * x + 6.4002E-005$$

$$R = 0.9998$$

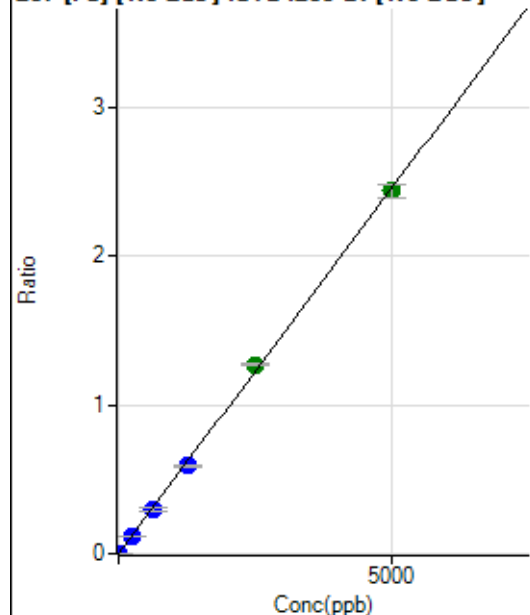
$$DL = 0.1286$$

$$BEC = 0.118$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 114.82     | 0.0001 | P   | 17.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.915      | 1094.51    | 0.0005 | P   | 10.5 |
| 3 | <input type="checkbox"/> | 250.000  | 242.456    | 265169.53  | 0.1190 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 625.000  | 604.222    | 658615.69  | 0.2964 | P   | 5.1  |
| 5 | <input type="checkbox"/> | 1250.000 | 1199.441   | 1334208.47 | 0.5883 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2593.294   | 2837472.52 | 1.2720 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4968.967   | 5644737.45 | 2.4371 | A   | 3.8  |
| 8 | <input type="checkbox"/> |          |            | 1131.56    | 0.0005 | P   | 11.9 |

$$y = 4.9046\text{E-}004 * x + 5.2265\text{E-}005$$

$$R = 0.9997$$

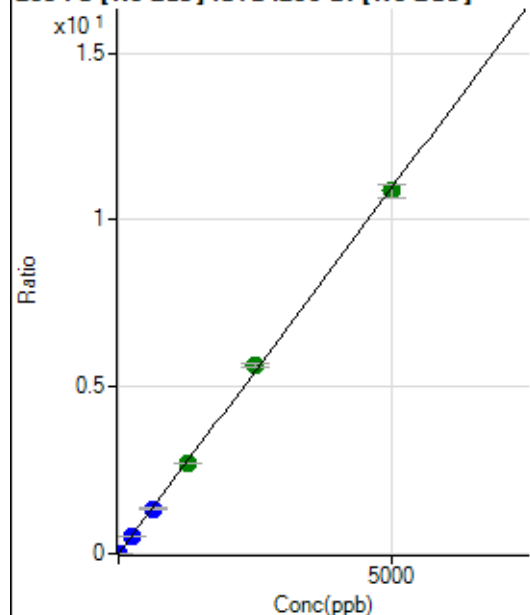
$$DL = 0.05496$$

$$BEC = 0.1066$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 564.84      | 0.0003  | P   | 7.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.899      | 4859.70     | 0.0022  | P   | 1.9 |
| 3 | <input type="checkbox"/> | 250.000  | 243.325    | 1187825.08  | 0.5329  | P   | 1.0 |
| 4 | <input type="checkbox"/> | 625.000  | 612.504    | 2979858.69  | 1.3410  | P   | 5.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1230.167   | 6107370.57  | 2.6931  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2583.830   | 12617588.74 | 5.6563  | A   | 1.7 |
| 7 | <input type="checkbox"/> | 5000.000 | 4964.939   | 25174933.32 | 10.8686 | A   | 3.4 |
| 8 | <input type="checkbox"/> |          |            | 5239.43     | 0.0024  | P   | 1.8 |

$$y = 0.0022 * x + 2.5705\text{E-}004$$

$$R = 0.9998$$

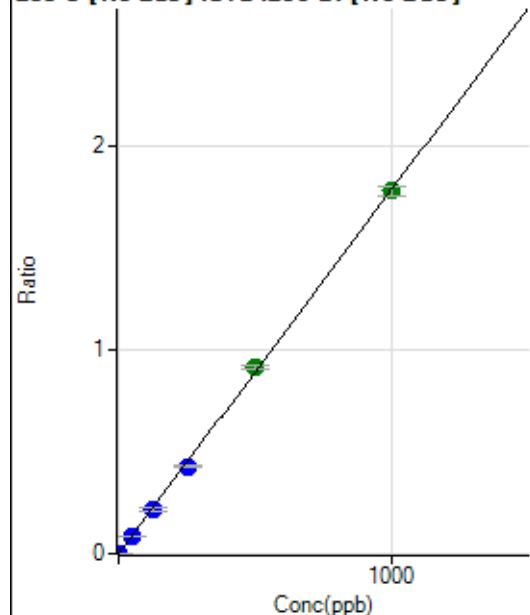
$$DL = 0.02518$$

$$BEC = 0.1174$$

Weight: &lt;None&gt;

Min Conc: 0

238 U [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      | 8.33       | 0.0000 | P    | 0.3  |
| 2 | <input type="checkbox"/> | 1.000    | 0.861      | 3356.08    | 0.0015 | P    | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 48.132     | 191057.57  | 0.0857 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 121.546    | 480770.79  | 0.2164 | P    | 6.0  |
| 5 | <input type="checkbox"/> | 250.000  | 239.386    | 966643.17  | 0.4263 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 511.835    | 2032900.85 | 0.9114 | A    | 2.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.261    | 4113931.69 | 1.7757 | A    | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 330.57     | 0.0002 | P    | 26.1 |

$$y = 0.0018 * x + 3.7908E-006$$

$$R = 0.9998$$

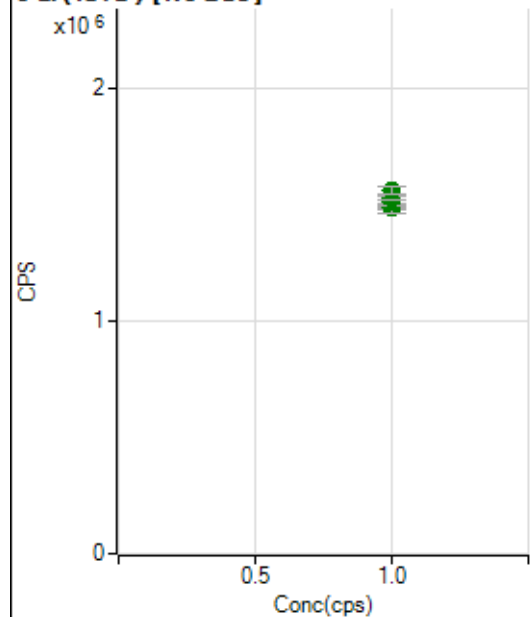
$$DL = 2.223E-05$$

$$BEC = 0.002129$$

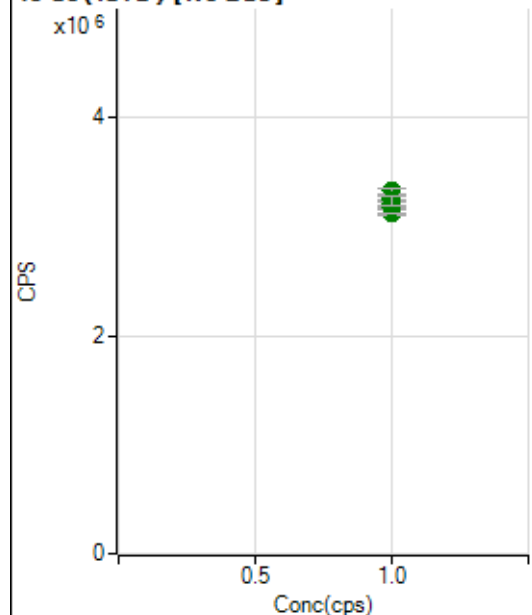
Weight: &lt;None&gt;

Min Conc: 0

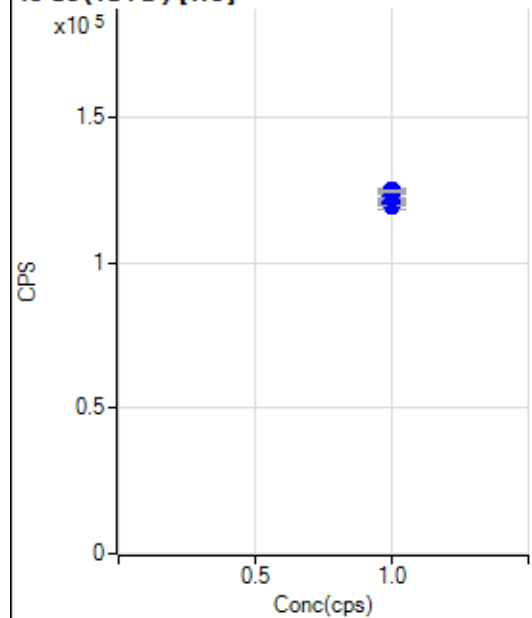
6 Li (ISTD) [No Gas]



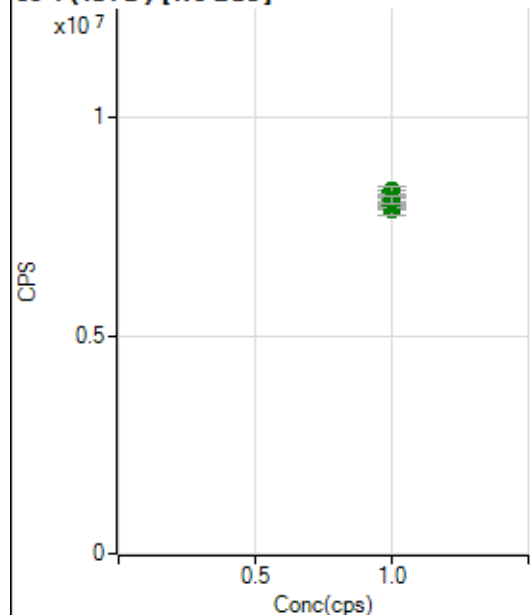
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1485794.18 |       | A    | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1489747.14 |       | A    | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1489542.84 |       | A    | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1496907.19 |       | A    | 5.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1528544.88 |       | A    | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1507465.73 |       | A    | 1.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1528207.78 |       | A    | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1557281.38 |       | A    | 2.0 |

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

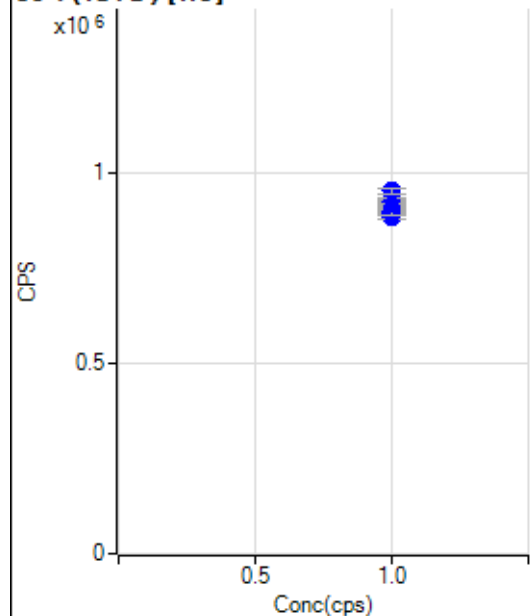
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3116683.32 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3169053.77 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3238589.43 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3176858.57 |       | A        | 3.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3257991.06 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3213975.51 |       | A        | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3328360.82 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3244798.08 |       | A        | 2.7 |

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

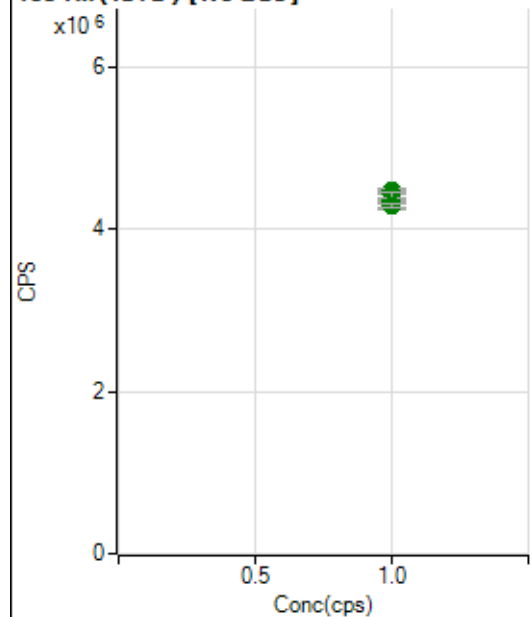
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 119656.71 |       | P        | 1.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 121113.20 |       | P        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 120936.23 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 120534.09 |       | P        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 122525.87 |       | P        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 122617.18 |       | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 124331.17 |       | P        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 124630.35 |       | P        | 0.2 |

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

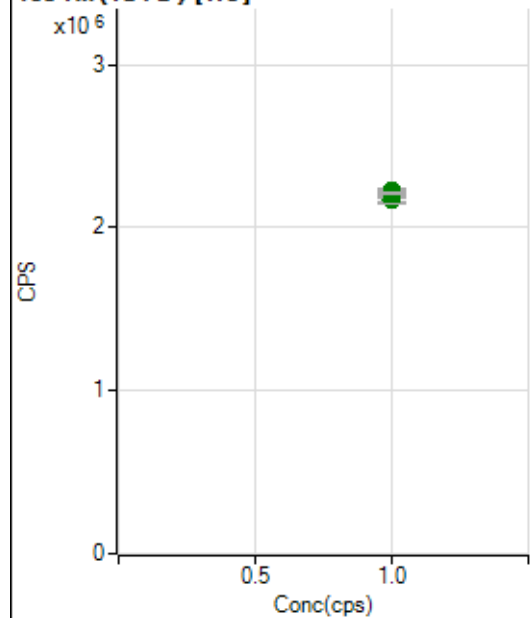
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7930077.73 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7916438.43 |       | A        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8008193.98 |       | A        | 2.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7973598.56 |       | A        | 5.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8303596.82 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8014458.08 |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8325187.79 |       | A        | 2.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8108573.21 |       | A        | 2.4 |

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

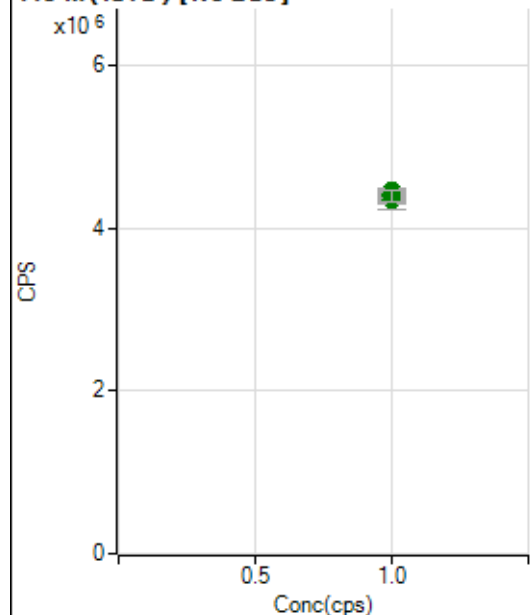
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 888011.44 |       | P        | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 896577.65 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 902121.85 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 901126.63 |       | P        | 2.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 920449.57 |       | P        | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 926298.03 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 935932.83 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 954794.89 |       | P        | 1.7 |

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

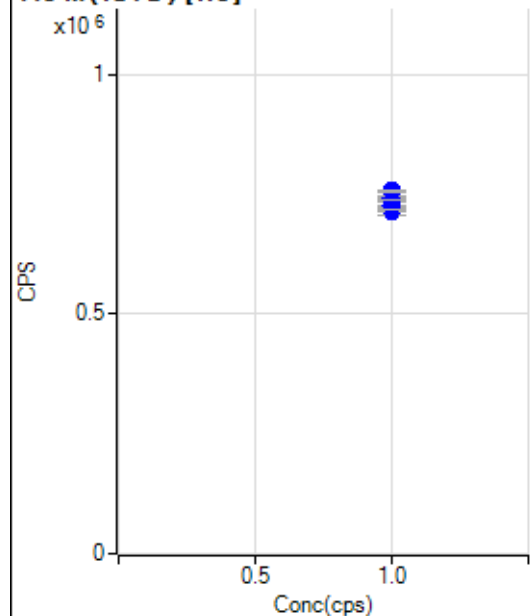
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4356767.37 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4331818.41 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4399692.20 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4374020.97 |       | A        | 5.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4477004.66 |       | A        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4332426.70 |       | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4428035.43 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4293058.99 |       | A        | 1.5 |

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

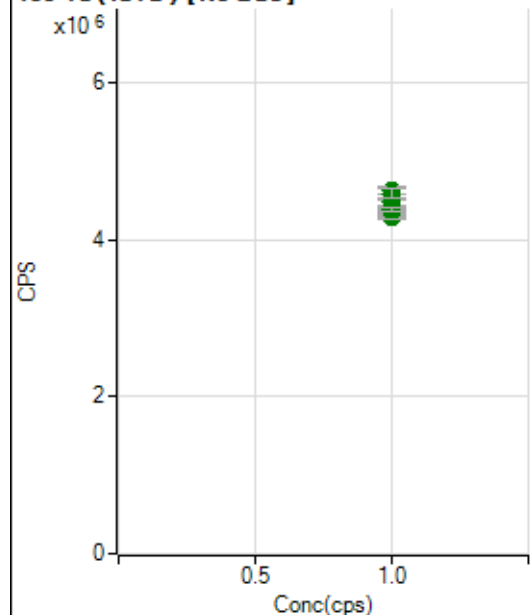
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2165560.20 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2172084.52 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2184398.56 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2165799.55 |       | A        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2225284.15 |       | A        | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2207294.17 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2222889.48 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2213318.47 |       | A        | 0.6 |

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

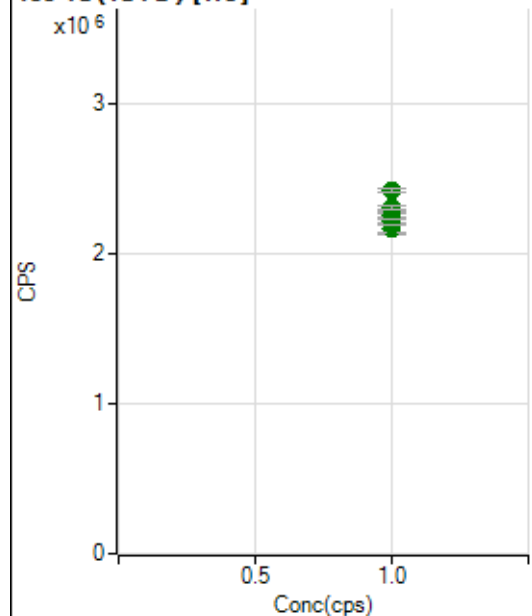
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4378005.86 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4344597.86 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4390156.48 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4341968.99 |       | A        | 5.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4462419.02 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4362935.09 |       | A        | 2.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4426492.55 |       | A        | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4392354.38 |       | A        | 3.2 |

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

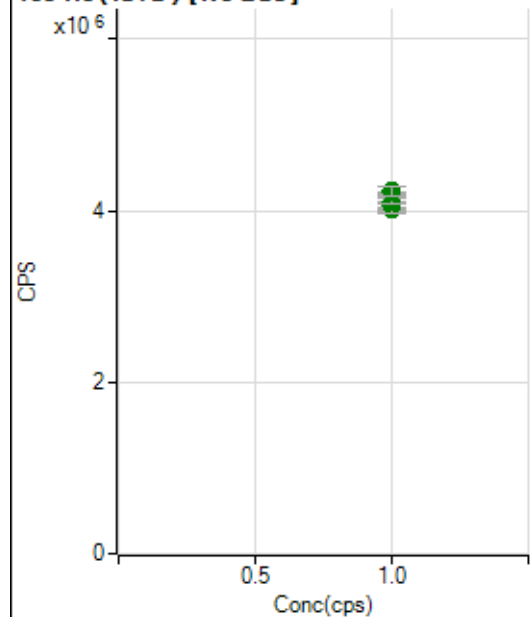
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 714327.30 |       | P        | 2.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 719823.60 |       | P        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 725126.58 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 726547.28 |       | P        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 736010.53 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 737232.21 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 742107.92 |       | P        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 756664.67 |       | P        | 0.5 |

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

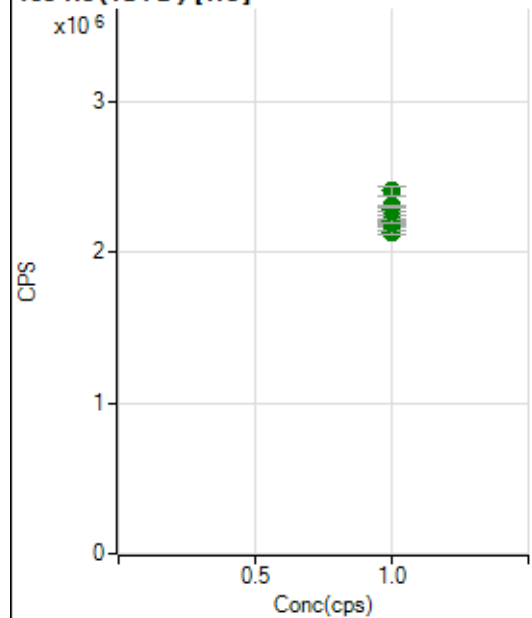
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4362221.50 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4297039.07 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4375262.57 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4392271.46 |       | A        | 5.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4491627.61 |       | A        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4389580.07 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4628744.03 |       | A        | 2.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4597816.22 |       | A        | 2.3 |

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

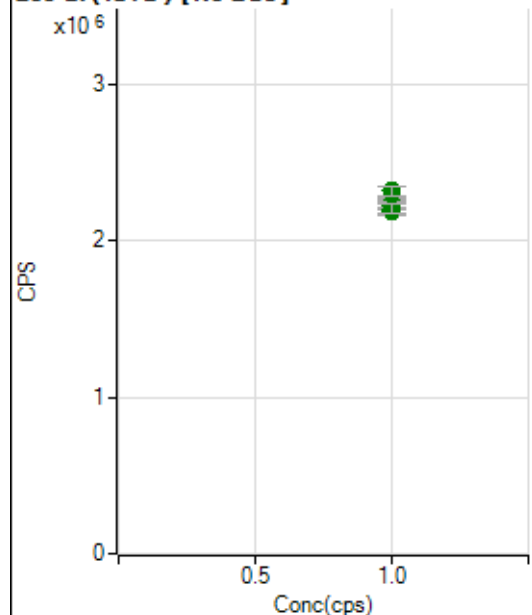
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2163995.19 |       | A        | 2.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2167150.59 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2196526.60 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2218195.45 |       | A        | 2.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2251527.97 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2298702.36 |       | A        | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2308979.53 |       | A        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2419409.81 |       | A        | 1.0 |

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

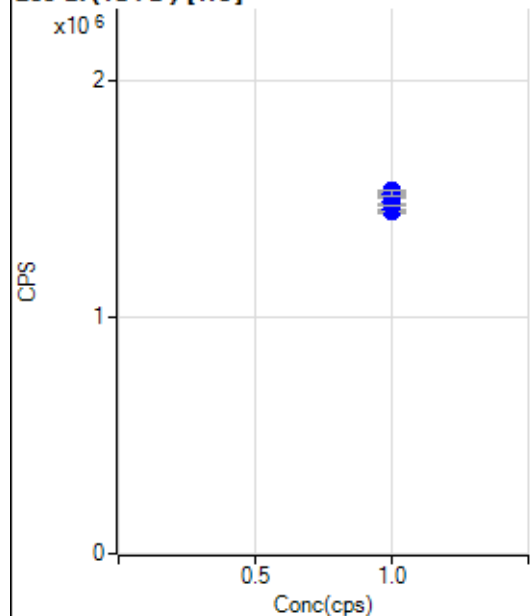
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4070365.50 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4004018.67 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4087231.64 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4066258.43 |       | A        | 4.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4211296.45 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4114189.68 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4231111.77 |       | A        | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4225391.80 |       | A        | 2.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2135519.54 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2191602.00 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2200311.55 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2210788.65 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2275147.05 |       | A        | 1.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2288526.84 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2307527.90 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2409589.56 |       | A        | 2.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2197467.46 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2183636.83 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2229198.58 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2226130.56 |       | A        | 5.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2267787.80 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2231126.79 |       | A        | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2317808.58 |       | A        | 2.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2204421.63 |       | A        | 2.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1447378.40 |       | P        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1457681.63 |       | P        | 1.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1474833.47 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1487714.72 |       | P        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1512253.21 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1516979.51 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1535443.29 |       | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1524858.33 |       | P        | 1.2 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8093020MS.b  
Acq. Date-Time 2020-09-30 08:06:35  
Report Comment ---  
Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|--------|-----------------|
| 9    |              | 2653  | 26531.28  |                            |             | 1.548  | 5.000           |
| 24   |              | 44239 | 442391.66 |                            |             | 1.304  | 5.000           |
| 25   |              | 5986  | 59858.43  |                            |             | 1.321  | 5.000           |
| 26   |              | 6812  | 68119.29  |                            |             | 0.964  | 5.000           |
| 59   |              | 17191 | 171914.66 |                            |             | 0.979  | 5.000           |
| 113  |              | 2419  | 24194.18  |                            |             | 0.898  | 5.000           |
| 115  |              | 7701  | 77008.78  |                            |             | 1.649  | 5.000           |
| 206  |              | 2181  | 21812.18  |                            |             | 1.610  | 5.000           |
| 207  |              | 1832  | 18320.66  |                            |             | 2.175  | 5.000           |
| 208  |              | 4497  | 44968.98  |                            |             | 2.110  | 5.000           |
| 220  |              | 1     | 10.10     |                            |             | 14.602 |                 |

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

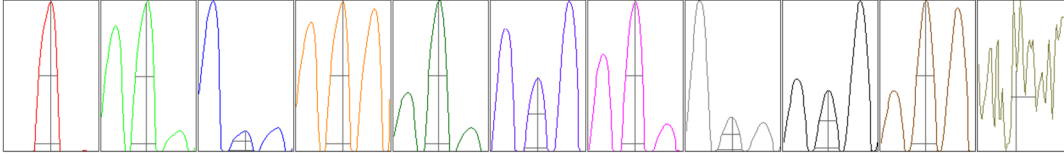
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 2658        | 2692        | 2682        | 2647        | 2587        |
| 24   | 44552       | 44500       | 44455       | 44479       | 43209       |
| 25   | 6033        | 6056        | 6026        | 5951        | 5863        |
| 26   | 6808        | 6879        | 6845        | 6823        | 6705        |
| 59   | 17049       | 17233       | 17373       | 17317       | 16985       |
| 113  | 2416        | 2416        | 2445        | 2433        | 2387        |
| 115  | 7747        | 7759        | 7774        | 7750        | 7474        |
| 206  | 2142        | 2194        | 2206        | 2219        | 2146        |
| 207  | 1811        | 1857        | 1855        | 1866        | 1772        |
| 208  | 4395        | 4564        | 4552        | 4581        | 4392        |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 4805.67     | 9.00   | 8.90 - 9.10     |             |
| 24   | 79701.26    | 23.95  | 23.90 - 24.10   |             |
| 25   | 10600.64    | 25.00  | 24.90 - 25.10   |             |
| 26   | 12333.11    | 26.00  | 25.90 - 26.10   |             |
| 59   | 31786.86    | 58.95  | 58.90 - 59.10   |             |
| 113  | 4742.11     | 113.00 | 112.90 - 113.10 |             |
| 115  | 15068.81    | 115.00 | 114.90 - 115.10 |             |
| 206  | 4094.90     | 206.00 | 205.90 - 206.10 |             |
| 207  | 3425.52     | 206.95 | 206.90 - 207.10 |             |
| 208  | 8548.77     | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.95        | 219.75 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.58  | 0.782 | 0.900           |             |
| 24   | 0.60  | 0.783 | 0.900           |             |
| 25   | 0.60  | 0.766 | 0.900           |             |
| 26   | 0.59  | 0.784 | 0.900           |             |
| 59   | 0.57  | 0.776 | 0.900           |             |
| 113  | 0.53  | 0.727 | 0.900           |             |
| 115  | 0.53  | 0.731 | 0.900           |             |
| 206  | 0.55  | 0.786 | 0.900           |             |
| 207  | 0.54  | 0.787 | 0.900           |             |
| 208  | 0.54  | 0.807 | 0.900           |             |
| 220  | 0.76  |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 9.5 V | Deflect    | 13.8 V |
| Extract 2  | -225.0 V | Cell Entrance | -30 V | Plate Bias | -50 V  |
| Omega Bias | -105 V   | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 170 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 122 | Axis Gain   | 0.9991 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | -0.02  |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 0.7 mm | Torch V | -0.4 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.0 mV | Analog HV | 2181 V | Pulse HV | 1312 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS      | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 3922  | 39223.54 |                            |             | 0.606 |                 |
| 89   |              | 2270  | 22703.97 |                            |             | 0.720 |                 |
| 205  |              | 6488  | 64880.94 |                            |             | 0.727 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 3902        | 3916        | 3910        | 3963        | 3920        |
| 89   | 2267        | 2259        | 2252        | 2293        | 2280        |
| 205  | 6535        | 6409        | 6497        | 6499        | 6501        |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | HMI     | Nebulizer Gas  | 0.51 L/min | Dilution Gas  | 0.46 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |       |         |       |
|-----------|--------|------------|-------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 9.5 V | Deflect | 5.2 V |
|-----------|--------|------------|-------|---------|-------|

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|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -225.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -105 V     | Cell Exit     | -70 V   |                       |         |
| <b>Cell Parameters</b>   |            |               |         |                       |         |
| Use Gas                  | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow                  | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow                  | ---        | OctP RF       | 200 V   |                       |         |
| <b>QP Parameters</b>     |            |               |         |                       |         |
| Mass Gain                | 122        | Axis Gain     | 0.9991  | QP Bias               | -13.0 V |
| Mass Offset              | 125        | Axis Offset   | -0.02   |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 0.7 mm     | Torch V       | -0.4 mm |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 4.0 mV     | Analog HV     | 2181 V  | Pulse HV              | 1312 V  |