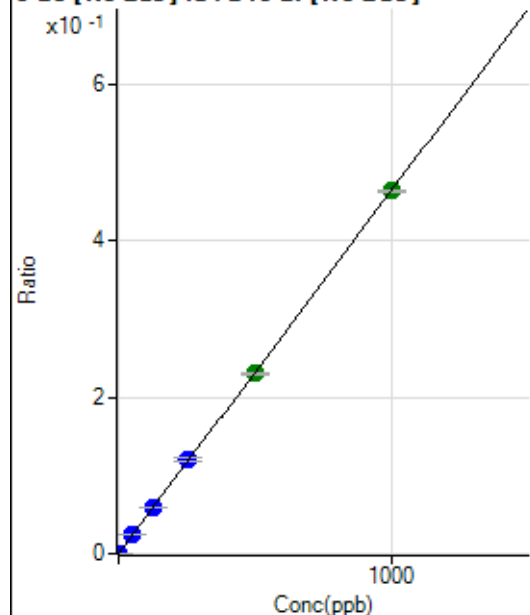


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8070121SMS.b\  
Analysis File: P8070121SMS.batch.bin  
DA Date-Time: 2021-07-01 11:30:43  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2021-07-01 10:18:38 |
| 2     | 005CAL.S.d         | S02         | 2021-07-01 10:24:47 |
| 3     | 006CAL.S.d         | S03         | 2021-07-01 10:27:52 |
| 4     | 007CAL.S.d         | S04         | 2021-07-01 10:31:00 |
| 5     | 008CAL.S.d         | S05         | 2021-07-01 10:34:05 |
| 6     | 009CAL.S.d         | S06         | 2021-07-01 10:37:08 |
| 7     | 010CAL.S.d         | S07         | 2021-07-01 10:40:14 |
| 8     | 011CAL.S.d         | S08         | 2021-07-01 10:43:17 |

**9 Be [No Gas] ISTD:6 Li [No Gas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 32.66      | 0.0000 | P    | 3.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.104      | 3185.06    | 0.0005 | P    | 5.6 |
| 3 | <input type="checkbox"/> | 50.000   | 52.441     | 154200.32  | 0.0243 | P    | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 128.415    | 377119.84  | 0.0596 | P    | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 259.378    | 755488.21  | 0.1204 | P    | 2.3 |
| 6 | <input type="checkbox"/> | 500.000  | 496.570    | 1448106.05 | 0.2305 | A    | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.821    | 2788576.15 | 0.4636 | A    | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 598.56     | 0.0001 | P    | 9.4 |

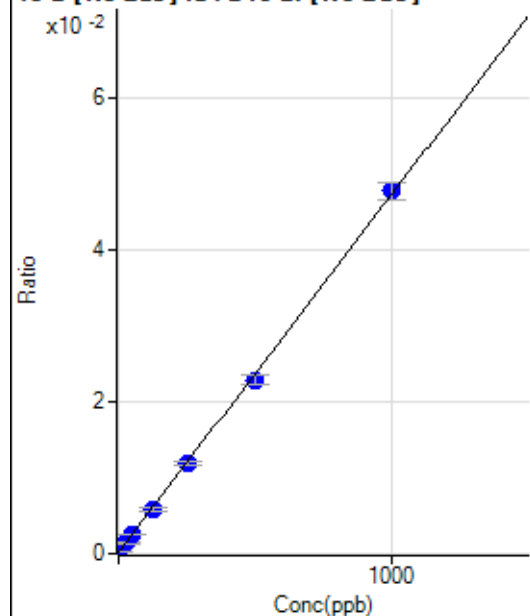
$$y = 4.6413\text{E-}004 * x + 5.2246\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.001042$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1141.16   | 0.0002 | P    | 7.6 |
| 2 | <input type="checkbox"/> | 25.000   | 26.001     | 8669.54   | 0.0014 | P    | 6.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.768     | 16034.28  | 0.0025 | P    | 7.6 |
| 4 | <input type="checkbox"/> | 125.000  | 120.876    | 37238.49  | 0.0059 | P    | 6.2 |
| 5 | <input type="checkbox"/> | 250.000  | 247.322    | 74426.20  | 0.0119 | P    | 4.0 |
| 6 | <input type="checkbox"/> | 500.000  | 481.144    | 143771.30 | 0.0229 | P    | 5.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.600   | 287841.47 | 0.0479 | P    | 4.7 |
| 8 | <input type="checkbox"/> |          |            | 29693.53  | 0.0050 | P    | 9.6 |

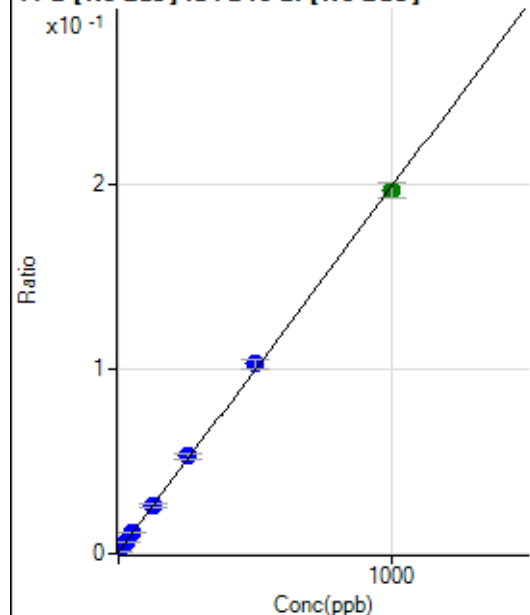
$$y = 4.7177\text{E-}005 * x + 1.8256\text{E-}004$$

$$R = 0.9997$$

$$DL = 0.8855$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5118.56    | 0.0008 | P    | 2.0  |
| 2 | <input type="checkbox"/> | 25.000   | 27.821     | 38923.75   | 0.0063 | P    | 6.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.913     | 71573.51   | 0.0113 | P    | 6.0  |
| 4 | <input type="checkbox"/> | 125.000  | 129.411    | 167320.77  | 0.0264 | P    | 7.2  |
| 5 | <input type="checkbox"/> | 250.000  | 262.484    | 331539.74  | 0.0528 | P    | 4.6  |
| 6 | <input type="checkbox"/> | 500.000  | 514.604    | 645382.00  | 0.1027 | P    | 5.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.809    | 1182508.56 | 0.1966 | A    | 4.4  |
| 8 | <input type="checkbox"/> |          |            | 131216.71  | 0.0219 | P    | 10.3 |

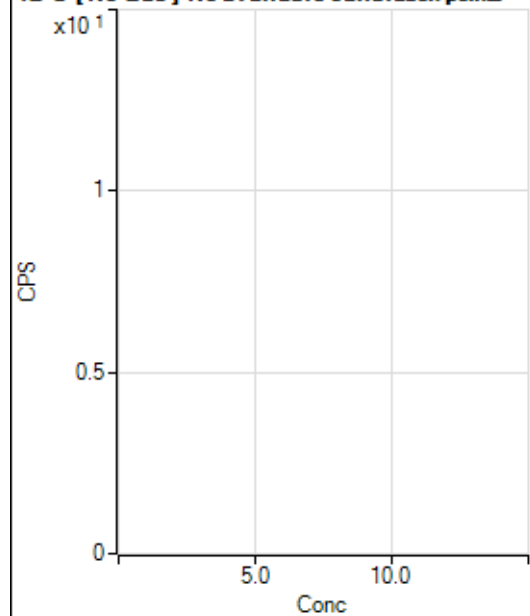
$$y = 1.9801\text{E-}004 * x + 8.1900\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.2439$$

Weight: &lt;None&gt;

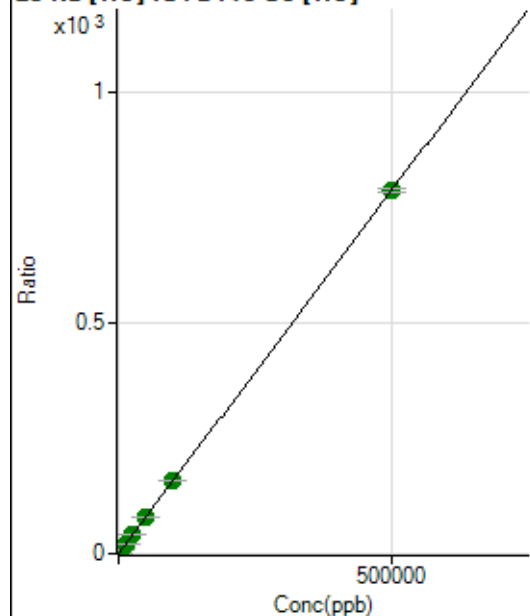
Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 5834037.54 |       | A    | 0.7 |
| 2 | <input type="checkbox"/> |       |            | 6090641.50 |       | A    | 0.4 |
| 3 | <input type="checkbox"/> |       |            | 6458007.13 |       | A    | 2.2 |
| 4 | <input type="checkbox"/> |       |            | 6735879.58 |       | A    | 1.5 |
| 5 | <input type="checkbox"/> |       |            | 7039402.07 |       | A    | 2.5 |
| 6 | <input type="checkbox"/> |       |            | 7591529.77 |       | A    | 3.4 |
| 7 | <input type="checkbox"/> |       |            | 8093832.30 |       | A    | 1.5 |
| 8 | <input type="checkbox"/> |       |            | 7229700.77 |       | A    | 2.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 52432.84 |       | P        | 1.7 |
| 2 | <input type="checkbox"/> |       |            | 56456.07 |       | P        | 1.0 |
| 3 | <input type="checkbox"/> |       |            | 60547.57 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> |       |            | 62034.24 |       | P        | 0.5 |
| 5 | <input type="checkbox"/> |       |            | 67313.25 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> |       |            | 75100.52 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> |       |            | 79205.36 |       | P        | 2.0 |
| 8 | <input type="checkbox"/> |       |            | 76619.24 |       | P        | 0.6 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13289.72    | 0.0702   | P        | 2.5 |
| 2 | <input type="checkbox"/> | 500.000   | 522.696    | 171615.85   | 0.8937   | P        | 0.9 |
| 3 | <input type="checkbox"/> | 5000.000  | 5332.348   | 1607254.37  | 8.4714   | A        | 1.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 12632.316  | 3831377.17  | 19.9728  | A        | 0.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 25736.983  | 7717567.10  | 40.6196  | A        | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 51358.037  | 15181492.70 | 80.9864  | A        | 0.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 100628.79  | 30056508.66 | 158.6140 | A        | 1.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 499694.93  | 152361817.2 | 787.3552 | A        | 1.0 |

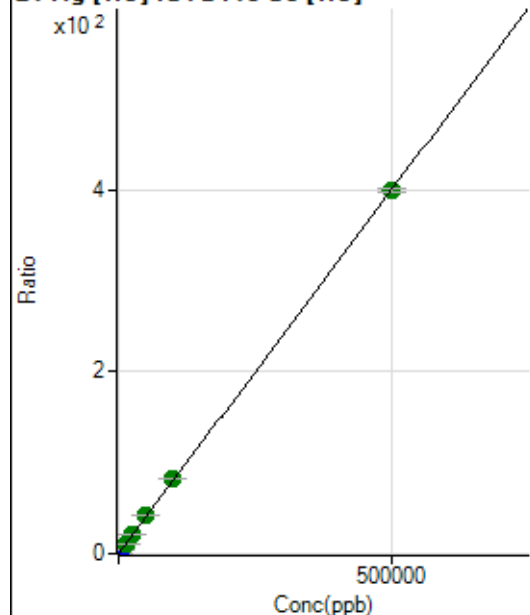
$$y = 0.0016 * x + 0.0702$$

$$R = 1.0000$$

$$DL = 3.318$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 152.78      | 0.0008   | P   | 3.8 |
| 2 | <input type="checkbox"/> | 500.000   | 538.142    | 82765.47    | 0.4310   | P   | 1.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5579.507   | 846149.01   | 4.4608   | P   | 2.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13328.535  | 2044017.23  | 10.6551  | A   | 0.7 |
| 5 | <input type="checkbox"/> | 25000.000 | 26523.071  | 4028357.12  | 21.2023  | A   | 0.7 |
| 6 | <input type="checkbox"/> | 50000.000 | 53001.463  | 7941902.96  | 42.3680  | A   | 1.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 103729.91  | 15712338.03 | 82.9183  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 500000.00 | 498851.17  | 77164805.20 | 398.7623 | A   | 0.9 |

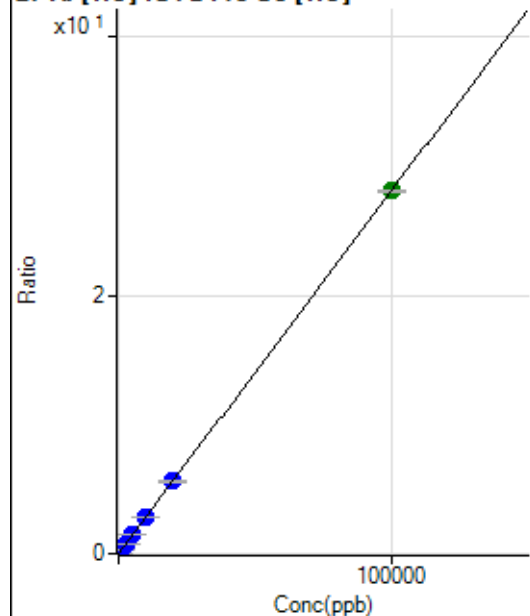
$$y = 7.9936\text{E-}004 * x + 8.0684\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.1163$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 107.91     | 0.0006  | P   | 13.0 |
| 2 | <input type="checkbox"/> | 20.000    | 20.887     | 1236.99    | 0.0064  | P   | 6.0  |
| 3 | <input type="checkbox"/> | 1000.000  | 1061.073   | 56682.34   | 0.2988  | P   | 1.3  |
| 4 | <input type="checkbox"/> | 2500.000  | 2573.839   | 138875.04  | 0.7239  | P   | 0.7  |
| 5 | <input type="checkbox"/> | 5000.000  | 5120.273   | 273518.78  | 1.4396  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 10000.000 | 10212.907  | 538122.29  | 2.8709  | P   | 1.1  |
| 7 | <input type="checkbox"/> | 20000.000 | 19913.904  | 1060679.37 | 5.5974  | P   | 0.7  |
| 8 | <input type="checkbox"/> | 100000.00 | 99987.458  | 5438093.16 | 28.1020 | A   | 0.5  |

$$y = 2.8105\text{E-}004 * x + 5.6964\text{E-}004$$

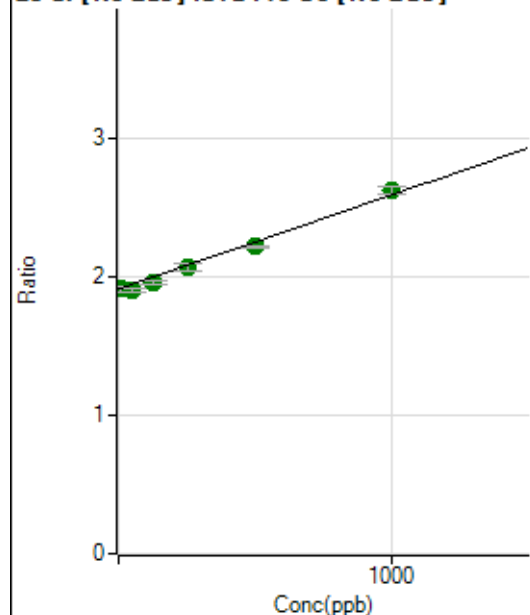
$$R = 1.0000$$

$$DL = 0.7918$$

Weight: &lt;None&gt;

Min Conc: 0

28 Si [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      | 12848362.44 | 1.9098 | A    | 1.0 |
| 2 | <input type="checkbox"/> | 10.000   | -0.427     | 12864846.21 | 1.9095 | A    | 2.3 |
| 3 | <input type="checkbox"/> | 50.000   | -18.451    | 13042843.26 | 1.8973 | A    | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 70.205     | 13332557.33 | 1.9574 | A    | 1.3 |
| 5 | <input type="checkbox"/> | 250.000  | 221.147    | 13748241.45 | 2.0597 | A    | 2.7 |
| 6 | <input type="checkbox"/> | 500.000  | 451.941    | 14962393.39 | 2.2161 | A    | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1041.619   | 17507071.23 | 2.6159 | A    | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 12532951.15 | 1.8626 | A    | 1.6 |

$$y = 6.7785E-004 * x + 1.9098$$

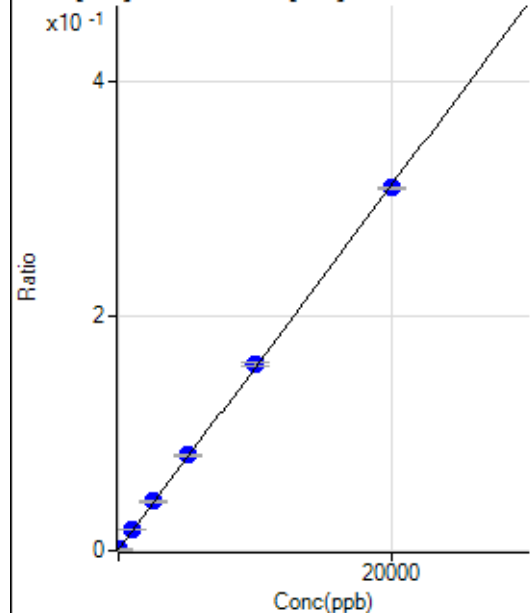
$$R = 0.9967$$

$$DL = 87.84$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -3.816     | 155.56   | 0.0008 | P    | 21.7 |
| 2 | <input type="checkbox"/> | 0.000     | 3.816      | 180.56   | 0.0009 | P    | 52.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1102.215   | 3411.60  | 0.0180 | P    | 5.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2642.101   | 8033.00  | 0.0419 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 5000.000  | 5173.957   | 15419.68 | 0.0812 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 10157.179  | 29700.37 | 0.1585 | P    | 2.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19855.048  | 58543.84 | 0.3089 | P    | 0.6  |
| 8 | <input type="checkbox"/> |           |            | 219.45   | 0.0011 | P    | 23.2 |

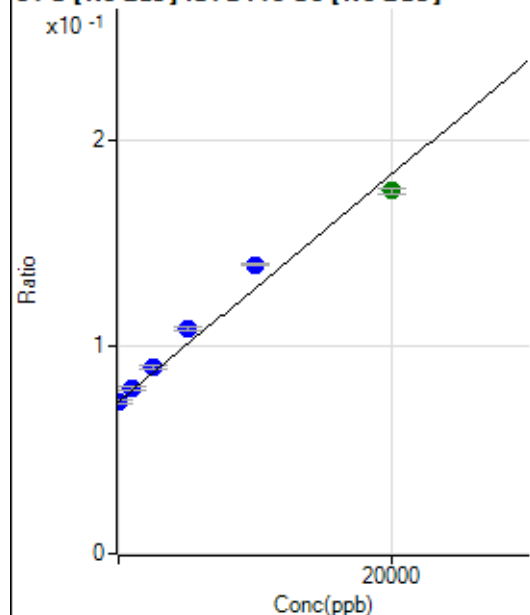
$$y = 1.5515E-005 * x + 8.8078E-004$$

$$R = 0.9999$$

$$DL = 65.05$$

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     | -57.088    | 491858.59  | 0.0731 | P   | 1.9 |
| 2 | <input type="checkbox"/> | 0.000     | 57.088     | 496814.91  | 0.0737 | P   | 2.5 |
| 3 | <input type="checkbox"/> | 1000.000  | 1115.535   | 546824.33  | 0.0795 | P   | 2.1 |
| 4 | <input type="checkbox"/> | 2500.000  | 3034.475   | 613527.97  | 0.0901 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 6472.574   | 727220.28  | 0.1089 | P   | 1.8 |
| 6 | <input type="checkbox"/> | 10000.000 | 12034.264  | 941445.79  | 0.1394 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 18542.139  | 1172296.40 | 0.1751 | A   | 1.3 |
| 8 | <input type="checkbox"/> |           |            | 425386.52  | 0.0632 | P   | 1.3 |

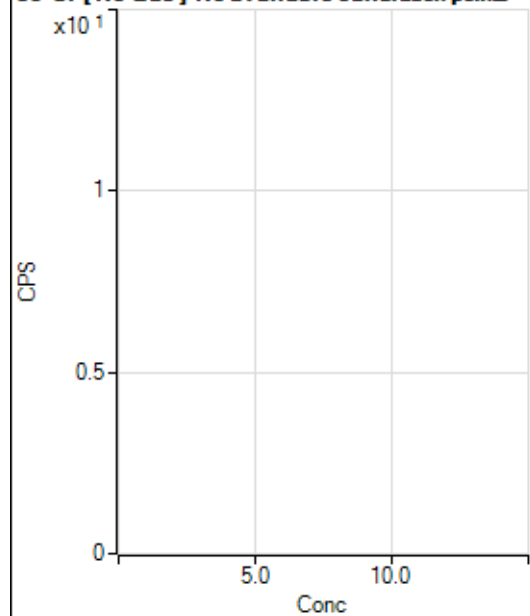
$$y = 5.4853E-006 * x + 0.0734$$

R = 0.9882

DL = 889.3

Weight: <None>

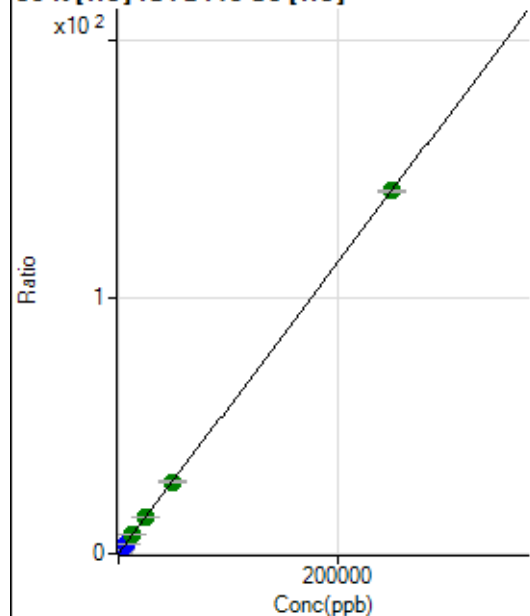
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            | 306149.43 |       | P   | 1.1 |
| 2 | <input type="checkbox"/> |       |            | 343364.21 |       | P   | 0.7 |
| 3 | <input type="checkbox"/> |       |            | 338091.91 |       | P   | 0.9 |
| 4 | <input type="checkbox"/> |       |            | 333139.42 |       | P   | 1.7 |
| 5 | <input type="checkbox"/> |       |            | 327230.56 |       | P   | 0.5 |
| 6 | <input type="checkbox"/> |       |            | 315977.31 |       | P   | 0.2 |
| 7 | <input type="checkbox"/> |       |            | 313253.54 |       | P   | 0.4 |
| 8 | <input type="checkbox"/> |       |            | 305244.03 |       | P   | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1930.74 |       | P        | 3.3  |
| 2 | <input type="checkbox"/> |       |            | 2139.11 |       | P        | 3.2  |
| 3 | <input type="checkbox"/> |       |            | 2136.32 |       | P        | 10.9 |
| 4 | <input type="checkbox"/> |       |            | 1975.19 |       | P        | 9.1  |
| 5 | <input type="checkbox"/> |       |            | 2052.97 |       | P        | 4.5  |
| 6 | <input type="checkbox"/> |       |            | 1952.96 |       | P        | 5.1  |
| 7 | <input type="checkbox"/> |       |            | 1789.05 |       | P        | 3.7  |
| 8 | <input type="checkbox"/> |       |            | 1905.73 |       | P        | 4.2  |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 19249.40    | 0.1016   | P        | 0.9 |
| 2 | <input type="checkbox"/> | 500.000   | 517.770    | 75737.90    | 0.3944   | P        | 0.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2661.198   | 304686.02   | 1.6064   | P        | 2.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6453.697   | 719482.00   | 3.7507   | P        | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 12731.753  | 1387023.64  | 7.3005   | A        | 1.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 25457.338  | 2717106.49  | 14.4959  | A        | 1.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 49378.483  | 5309870.48  | 28.0215  | A        | 1.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 250060.24  | 27380459.99 | 141.4921 | A        | 0.5 |

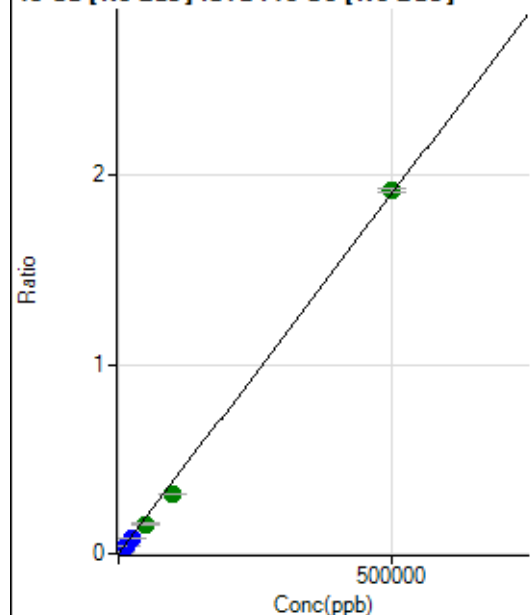
$$y = 5.6543\text{E-}004 * x + 0.1016$$

$$R = 1.0000$$

$$DL = 4.839$$

Weight: &lt;None&gt;

Min Conc: 0

**43 Ca [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      | 285.70      | 0.0000 | P    | 3.5 |
| 2 | <input type="checkbox"/> | 500.000   | 489.847    | 12840.63    | 0.0019 | P    | 2.3 |
| 3 | <input type="checkbox"/> | 5000.000  | 3988.622   | 104595.12   | 0.0152 | P    | 1.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 10033.421  | 260268.33   | 0.0382 | P    | 0.8 |
| 5 | <input type="checkbox"/> | 25000.000 | 20680.082  | 525368.76   | 0.0787 | P    | 3.1 |
| 6 | <input type="checkbox"/> | 50000.000 | 41408.085  | 1063795.41  | 0.1576 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 83641.702  | 2130237.24  | 0.3182 | A    | 0.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 504418.63  | 12911973.07 | 1.9189 | A    | 1.2 |

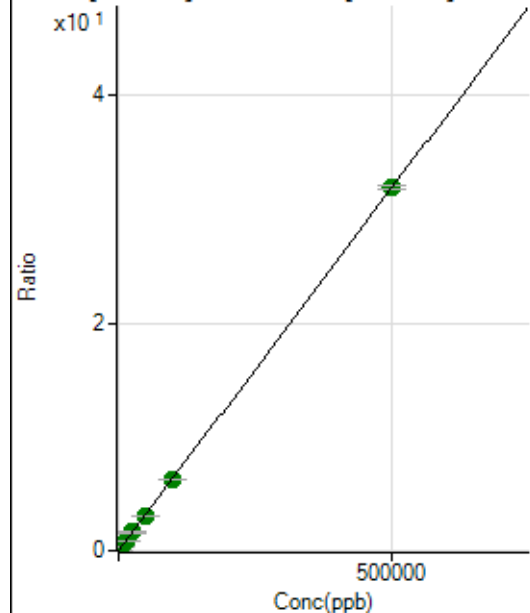
$$y = 3.8041E-006 * x + 4.2464E-005$$

$$R = 0.9994$$

$$DL = 1.176$$

Weight: &lt;None&gt;

Min Conc: 0

**44 Ca [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      | 31580.58    | 0.0047  | P    | 1.1 |
| 2 | <input type="checkbox"/> | 500.000   | 506.322    | 248793.73   | 0.0369  | P    | 1.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5000.834   | 2220626.67  | 0.3230  | A    | 1.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12312.224  | 5370596.58  | 0.7884  | A    | 0.8 |
| 5 | <input type="checkbox"/> | 25000.000 | 25311.898  | 10787668.16 | 1.6159  | A    | 1.7 |
| 6 | <input type="checkbox"/> | 50000.000 | 48633.240  | 20933728.46 | 3.1004  | A    | 1.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 97953.505  | 41766117.36 | 6.2399  | A    | 1.8 |
| 8 | <input type="checkbox"/> | 500000.00 | 500535.06  | 214420908.6 | 31.8662 | A    | 1.2 |

$$y = 6.3655E-005 * x + 0.0047$$

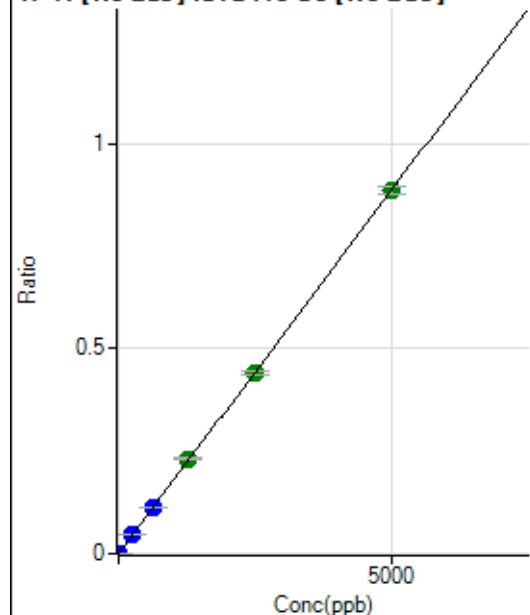
$$R = 1.0000$$

$$DL = 2.347$$

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      | 255.57     | 0.0000 | P   | 5.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.272      | 6551.67    | 0.0010 | P   | 3.2 |
| 3 | <input type="checkbox"/> | 250.000  | 257.459    | 313711.53  | 0.0456 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 625.000  | 642.281    | 775169.03  | 0.1138 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 1250.000 | 1306.247   | 1544947.97 | 0.2314 | A   | 2.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2484.081   | 2970987.22 | 0.4400 | A   | 1.8 |
| 7 | <input type="checkbox"/> | 5000.000 | 4991.364   | 5917529.78 | 0.8842 | A   | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 1769.59    | 0.0003 | P   | 6.7 |

$$y = 1.7713E-004 * x + 3.7971E-005$$

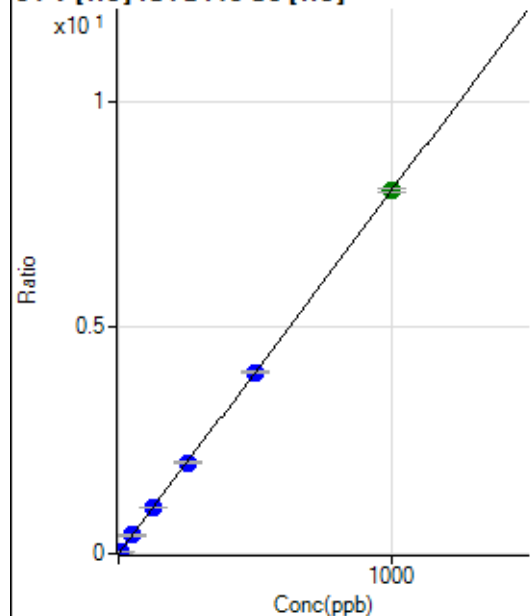
$$R = 0.9999$$

$$DL = 0.03687$$

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      | 6.67       | 0.0000 | P   | 99.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.229      | 8066.78    | 0.0420 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.923     | 77537.44   | 0.4088 | P   | 2.6  |
| 4 | <input type="checkbox"/> | 125.000  | 125.694    | 193550.53  | 1.0090 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 251.297    | 383254.93  | 2.0172 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 499.618    | 751712.66  | 4.0105 | P   | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.733    | 1520655.76 | 8.0249 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 491.13     | 0.0025 | P   | 5.1  |

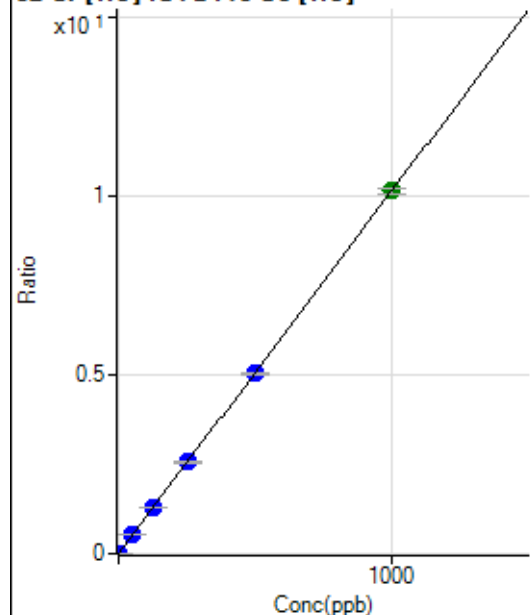
$$y = 0.0080 * x + 3.5142E-005$$

$$R = 1.0000$$

$$DL = 0.01307$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 837.81     | 0.0044  | P   | 8.1 |
| 2 | <input type="checkbox"/> | 2.000    | 2.058      | 4846.42    | 0.0252  | P   | 2.2 |
| 3 | <input type="checkbox"/> | 50.000   | 51.595     | 99846.34   | 0.5264  | P   | 2.4 |
| 4 | <input type="checkbox"/> | 125.000  | 126.017    | 245407.46  | 1.2793  | P   | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 252.002    | 485194.64  | 2.5538  | P   | 2.1 |
| 6 | <input type="checkbox"/> | 500.000  | 496.619    | 942527.16  | 5.0285  | P   | 1.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.983   | 1919724.90 | 10.1308 | A   | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 7493.15    | 0.0387  | P   | 2.7 |

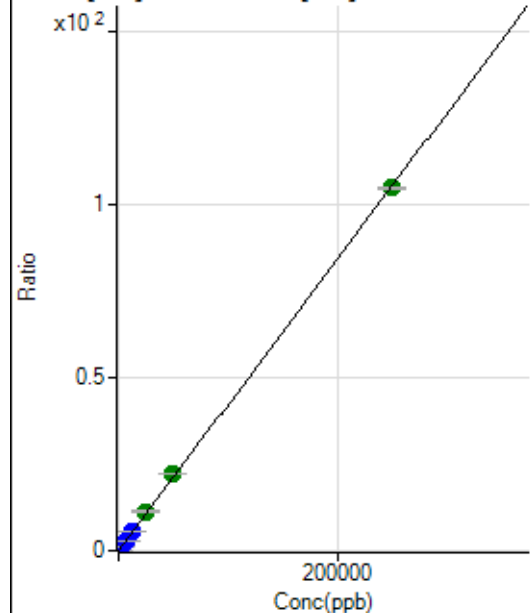
$$y = 0.0101 * x + 0.0044$$

$$R = 1.0000$$

$$DL = 0.1064$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 394.46      | 0.0021   | P   | 2.1 |
| 2 | <input type="checkbox"/> | 50.000    | 57.507     | 5043.57     | 0.0263   | P   | 3.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2751.529   | 219836.65   | 1.1591   | P   | 2.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6736.743   | 543802.75   | 2.8348   | P   | 0.9 |
| 5 | <input type="checkbox"/> | 12500.000 | 13380.608  | 1069367.09  | 5.6284   | P   | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 27064.650  | 2133580.65  | 11.3824  | A   | 1.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 52605.365  | 4191882.82  | 22.1219  | A   | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249213.74  | 20279133.09 | 104.7931 | A   | 0.5 |

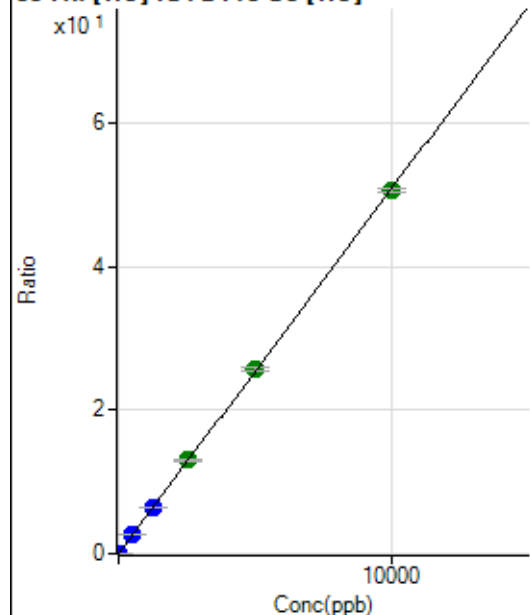
$$y = 4.2049E-004 * x + 0.0021$$

$$R = 0.9999$$

$$DL = 0.3151$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>55</sup>Mn [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 47.78      | 0.0003  | P   | 3.5 |
| 2 | <input type="checkbox"/> | 1.000     | 1.004      | 1030.05    | 0.0054  | P   | 6.2 |
| 3 | <input type="checkbox"/> | 500.000   | 519.168    | 501331.00  | 2.6430  | P   | 2.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1268.033   | 1238228.22 | 6.4551  | P   | 1.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2572.202   | 2487709.44 | 13.0938 | A   | 1.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5068.056   | 4835584.09 | 25.7988 | A   | 1.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9944.709   | 9592816.94 | 50.6230 | A   | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 5427.75    | 0.0280  | P   | 2.6 |

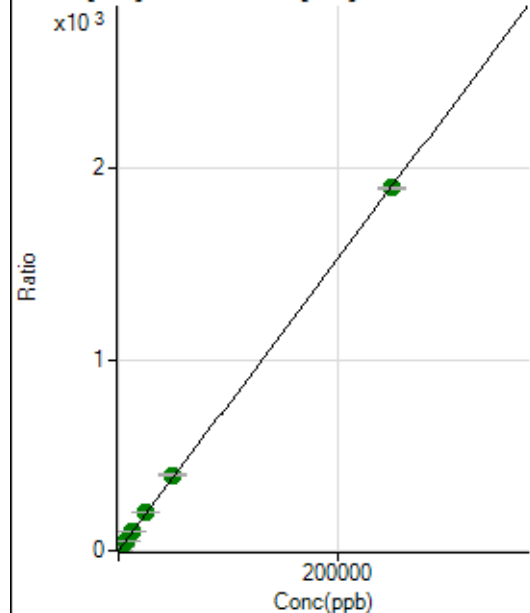
$$y = 0.0051 * x + 2.5226E-004$$

$$R = 0.9999$$

$$DL = 0.005178$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>56</sup>Fe [He] ISTD:45 Sc [He]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2624.37     | 0.0139    | P   | 6.7 |
| 2 | <input type="checkbox"/> | 50.000    | 54.972     | 83023.39    | 0.4323    | P   | 0.7 |
| 3 | <input type="checkbox"/> | 2500.000  | 2761.647   | 3990160.71  | 21.0368   | A   | 2.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 6611.316   | 9656794.78  | 50.3422   | A   | 0.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 13446.463  | 19450413.63 | 102.3745  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 26456.271  | 37750514.73 | 201.4111  | A   | 1.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 52147.100  | 75222713.72 | 396.9814  | A   | 1.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249365.97  | 367347682.2 | 1,898.301 | A   | 0.5 |

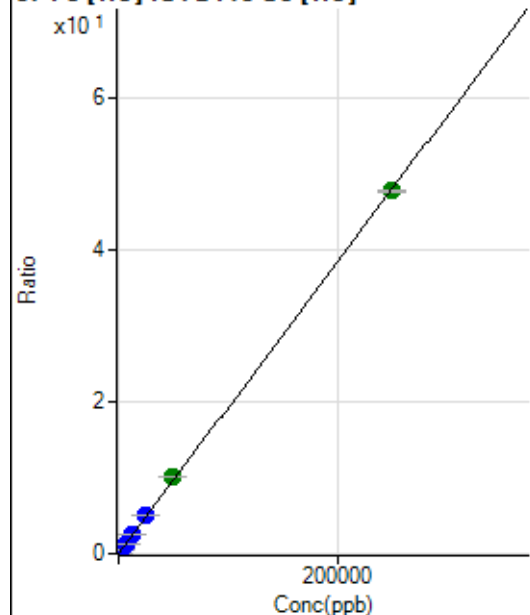
$$y = 0.0076 * x + 0.0139$$

$$R = 1.0000$$

$$DL = 0.3641$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 87.04      | 0.0005  | P   | 26.4 |
| 2 | <input type="checkbox"/> | 50.000    | 55.911     | 2142.79    | 0.0112  | P   | 1.9  |
| 3 | <input type="checkbox"/> | 2500.000  | 2698.619   | 98056.97   | 0.5168  | P   | 1.6  |
| 4 | <input type="checkbox"/> | 6250.000  | 6547.437   | 240417.32  | 1.2533  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 13171.620  | 478942.62  | 2.5209  | P   | 0.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 25912.408  | 929504.84  | 4.9588  | P   | 0.9  |
| 7 | <input type="checkbox"/> | 50000.000 | 53258.291  | 1931249.25 | 10.1914 | A   | 0.3  |
| 8 | <input type="checkbox"/> | 250000.00 | 249214.09  | 9228302.29 | 47.6876 | A   | 0.2  |

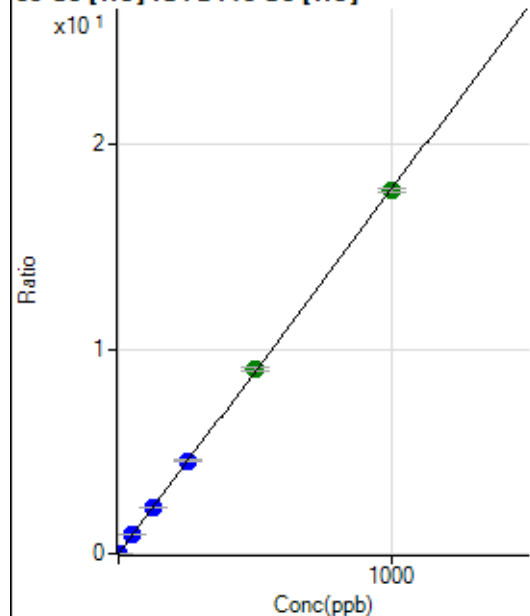
$$y = 1.9135E-004 * x + 4.6000E-004$$

$$R = 0.9999$$

$$DL = 1.904$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 64.45      | 0.0003  | P   | 20.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.041      | 3623.84    | 0.0189  | P   | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.492     | 177387.38  | 0.9352  | P   | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.287    | 434926.17  | 2.2672  | P   | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 254.554    | 861362.94  | 4.5337  | P   | 1.2  |
| 6 | <input type="checkbox"/> | 500.000  | 506.170    | 1689597.51 | 9.0146  | A   | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.366    | 3359003.77 | 17.7267 | A   | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 4737.50    | 0.0245  | P   | 1.1  |

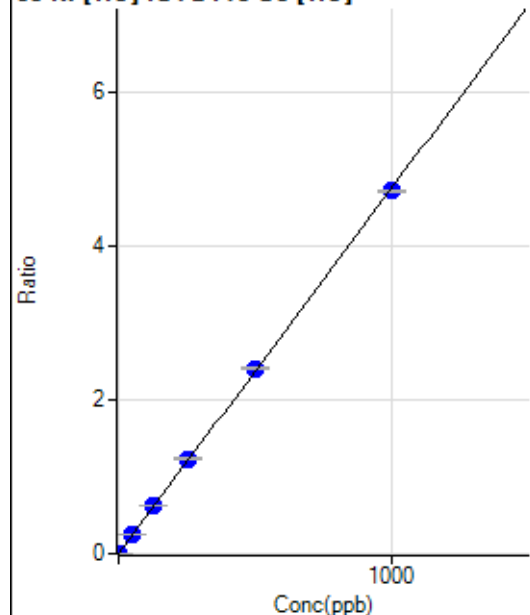
$$y = 0.0178 * x + 3.4022E-004$$

$$R = 1.0000$$

$$DL = 0.01186$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 34.45     | 0.0002 | P   | 20.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.140      | 1074.50   | 0.0056 | P   | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 53.280     | 48004.07  | 0.2531 | P   | 3.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.410    | 118790.85 | 0.6192 | P   | 0.0  |
| 5 | <input type="checkbox"/> | 250.000  | 259.693    | 234255.99 | 1.2330 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 507.032    | 451209.28 | 2.4071 | P   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.220    | 893474.80 | 4.7151 | P   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 2372.45   | 0.0123 | P   | 1.5  |

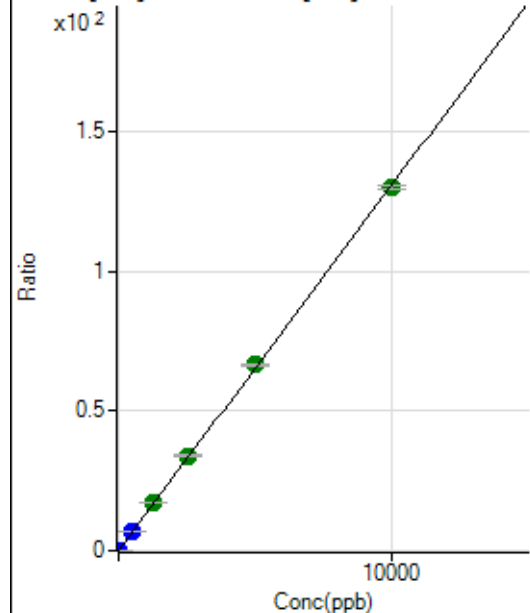
$$y = 0.0047 * x + 1.8187E-004$$

$$R = 0.9999$$

$$DL = 0.02304$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 394.45      | 0.0021   | P   | 9.8 |
| 2 | <input type="checkbox"/> | 2.000     | 1.957      | 5313.27     | 0.0277   | P   | 5.4 |
| 3 | <input type="checkbox"/> | 500.000   | 530.398    | 1316110.58  | 6.9380   | P   | 2.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1298.623   | 3257908.08  | 16.9839  | A   | 0.7 |
| 5 | <input type="checkbox"/> | 2500.000  | 2588.323   | 6430953.93  | 33.8490  | A   | 2.2 |
| 6 | <input type="checkbox"/> | 5000.000  | 5080.694   | 12453912.17 | 66.4412  | A   | 1.1 |
| 7 | <input type="checkbox"/> | 10000.000 | 9929.974   | 24605807.69 | 129.8541 | A   | 1.1 |
| 8 | <input type="checkbox"/> |           |            | 9785.65     | 0.0506   | P   | 3.2 |

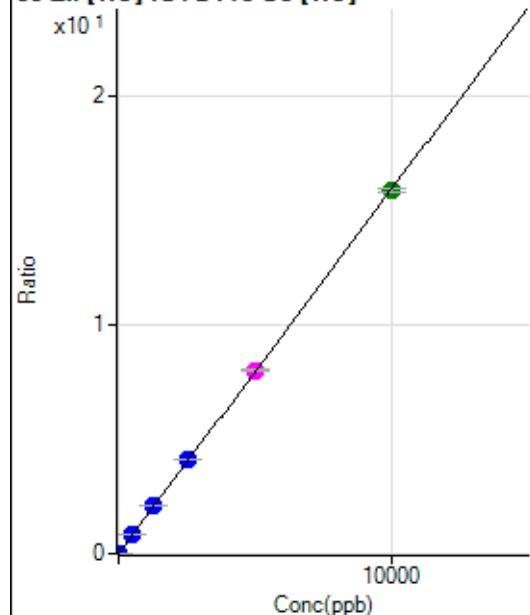
$$y = 0.0131 * x + 0.0021$$

$$R = 0.9999$$

$$DL = 0.04672$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 245.56     | 0.0013  | P   | 15.0 |
| 2 | <input type="checkbox"/> | 2.000     | 2.187      | 917.82     | 0.0048  | P   | 4.0  |
| 3 | <input type="checkbox"/> | 500.000   | 532.942    | 161219.11  | 0.8501  | P   | 3.1  |
| 4 | <input type="checkbox"/> | 1250.000  | 1299.198   | 397153.24  | 2.0704  | P   | 0.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2588.451   | 783476.99  | 4.1237  | P   | 0.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5022.887   | 1499737.51 | 8.0007  | M   | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9958.647   | 3005558.01 | 15.8614 | A   | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 5102.08    | 0.0264  | P   | 2.2  |

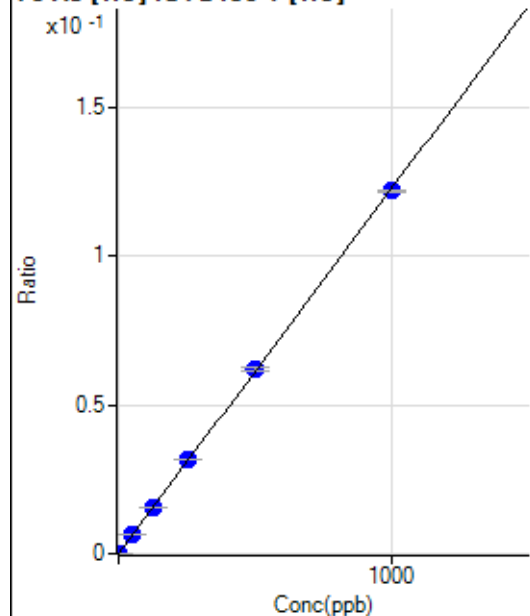
$$y = 0.0016 * x + 0.0013$$

$$R = 0.9999$$

$$DL = 0.3664$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.00      | 0.0000 | P   | 43.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.100      | 199.69    | 0.0001 | P   | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 53.469     | 9318.68   | 0.0066 | P   | 3.0  |
| 4 | <input type="checkbox"/> | 125.000  | 127.564    | 22760.90  | 0.0157 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 257.812    | 45301.37  | 0.0316 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 506.758    | 88734.98  | 0.0622 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.174    | 175426.57 | 0.1220 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 74.68     | 0.0000 | P   | 15.4 |

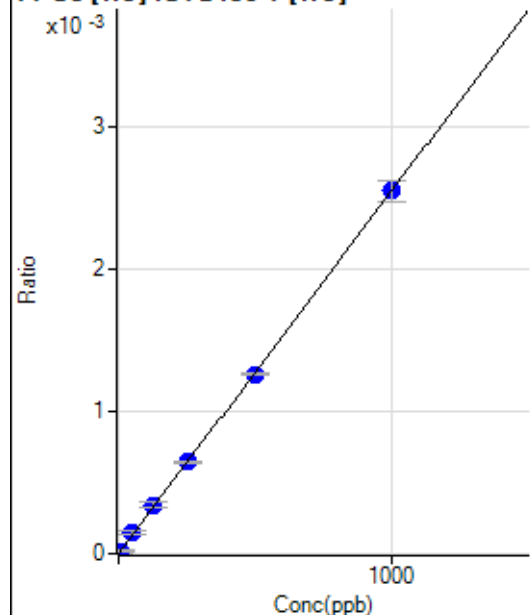
$$y = 1.2271E-004 * x + 2.8068E-006$$

$$R = 0.9999$$

$$DL = 0.02976$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11    | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 5.000    | 7.488      | 28.89   | 0.0000 | P    | 33.9 |
| 3 | <input type="checkbox"/> | 50.000   | 59.366     | 215.56  | 0.0002 | P    | 15.4 |
| 4 | <input type="checkbox"/> | 125.000  | 134.874    | 501.13  | 0.0003 | P    | 13.0 |
| 5 | <input type="checkbox"/> | 250.000  | 252.002    | 921.15  | 0.0006 | P    | 1.6  |
| 6 | <input type="checkbox"/> | 500.000  | 494.607    | 1801.24 | 0.0013 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.481   | 3668.29 | 0.0026 | P    | 5.7  |
| 8 | <input type="checkbox"/> |          |            | 3.33    | 0.0000 | P    | 100. |

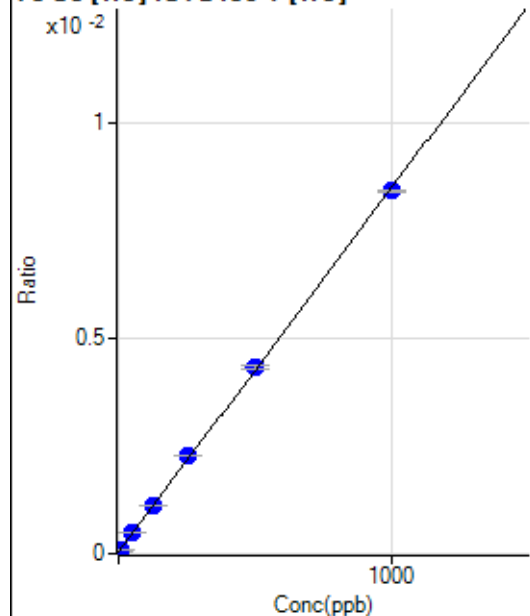
$$y = 2.5499\text{E-}006 * x + 7.7932\text{E-}007$$

$$R = 0.9999$$

$$DL = 1.588$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.01    | 0.0000 | P    | 9.7  |
| 2 | <input type="checkbox"/> | 5.000    | 4.694      | 110.34   | 0.0001 | P    | 4.3  |
| 3 | <input type="checkbox"/> | 50.000   | 53.400     | 692.09   | 0.0005 | P    | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.715    | 1633.26  | 0.0011 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 264.785    | 3253.71  | 0.0023 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.657    | 6168.31  | 0.0043 | P    | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.843    | 12095.74 | 0.0084 | P    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 52.34    | 0.0000 | P    | 15.2 |

$$y = 8.4446\text{E-}006 * x + 3.6490\text{E-}005$$

$$R = 0.9998$$

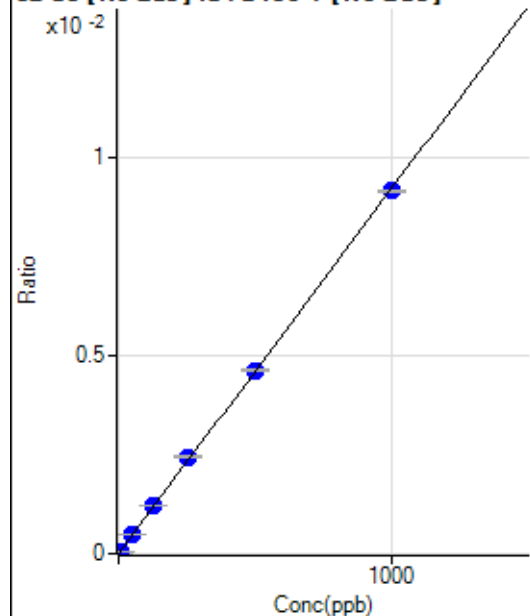
$$DL = 1.263$$

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"/> |       |            | 24496.60 |       | P        | 3.0 |
| 2 | <input type="checkbox"/> |       |            | 24830.90 |       | P        | 2.1 |
| 3 | <input type="checkbox"/> |       |            | 24510.07 |       | P        | 3.3 |
| 4 | <input type="checkbox"/> |       |            | 23951.75 |       | P        | 4.4 |
| 5 | <input type="checkbox"/> |       |            | 23346.91 |       | P        | 3.2 |
| 6 | <input type="checkbox"/> |       |            | 23804.61 |       | P        | 2.0 |
| 7 | <input type="checkbox"/> |       |            | 24162.34 |       | P        | 3.3 |
| 8 | <input type="checkbox"/> |       |            | 24657.09 |       | P        | 4.7 |

**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      | 20.66     | 0.0000 | P        | 424. |
| 2 | <input type="checkbox"/> | 5.000    | 5.348      | 736.07    | 0.0001 | P        | 5.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.719     | 7247.09   | 0.0005 | P        | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 131.209    | 17680.19  | 0.0012 | P        | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 265.290    | 35042.00  | 0.0024 | P        | 2.0  |
| 6 | <input type="checkbox"/> | 500.000  | 502.550    | 68124.87  | 0.0046 | P        | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.989    | 131337.77 | 0.0092 | P        | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 135.78    | 0.0000 | P        | 87.9 |

$$y = 9.2131E-006 * x + 1.4468E-006$$

$$R = 0.9999$$

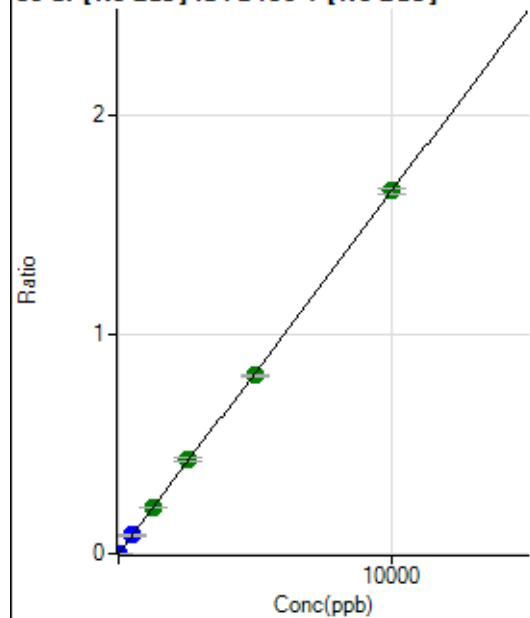
$$DL = 1.999$$

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"/> |       |            | 1055.60 |       | P        | 6.7  |
| 2 | <input type="checkbox"/> |       |            | 1074.49 |       | P        | 0.5  |
| 3 | <input type="checkbox"/> |       |            | 1105.61 |       | P        | 2.2  |
| 4 | <input type="checkbox"/> |       |            | 1081.17 |       | P        | 10.5 |
| 5 | <input type="checkbox"/> |       |            | 1060.05 |       | P        | 5.5  |
| 6 | <input type="checkbox"/> |       |            | 1051.16 |       | P        | 8.2  |
| 7 | <input type="checkbox"/> |       |            | 1016.72 |       | P        | 7.1  |
| 8 | <input type="checkbox"/> |       |            | 1080.05 |       | P        | 7.0  |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1641.81     | 0.0001 | P        | 5.5 |
| 2 | <input type="checkbox"/> | 1.000     | 1.134      | 4375.79     | 0.0003 | P        | 7.2 |
| 3 | <input type="checkbox"/> | 500.000   | 508.397    | 1248855.68  | 0.0840 | P        | 1.9 |
| 4 | <input type="checkbox"/> | 1250.000  | 1271.424   | 3064518.23  | 0.2098 | A        | 0.9 |
| 5 | <input type="checkbox"/> | 2500.000  | 2583.907   | 6105467.23  | 0.4262 | A        | 4.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 4923.777   | 11944167.02 | 0.8121 | A        | 1.2 |
| 7 | <input type="checkbox"/> | 10000.000 | 10014.037  | 23680001.22 | 1.6515 | A        | 1.9 |
| 8 | <input type="checkbox"/> |           |            | 10829.45    | 0.0007 | P        | 3.1 |

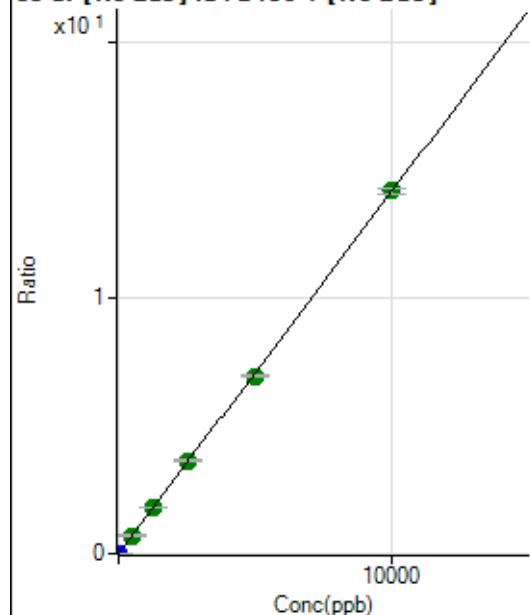
$$y = 1.6491\text{E-}004 * x + 1.1462\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.1145$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 177.79      | 0.0000  | P    | 21.7 |
| 2 | <input type="checkbox"/> | 1.000     | 1.025      | 21244.51    | 0.0015  | P    | 5.7  |
| 3 | <input type="checkbox"/> | 500.000   | 504.516    | 10629603.62 | 0.7145  | A    | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1270.751   | 26286863.26 | 1.7995  | A    | 1.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2567.697   | 52095582.76 | 3.6362  | A    | 2.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4912.871   | 102330230.0 | 6.9572  | A    | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 10023.821  | 203533786.4 | 14.1948 | A    | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 78256.06    | 0.0054  | P    | 6.3  |

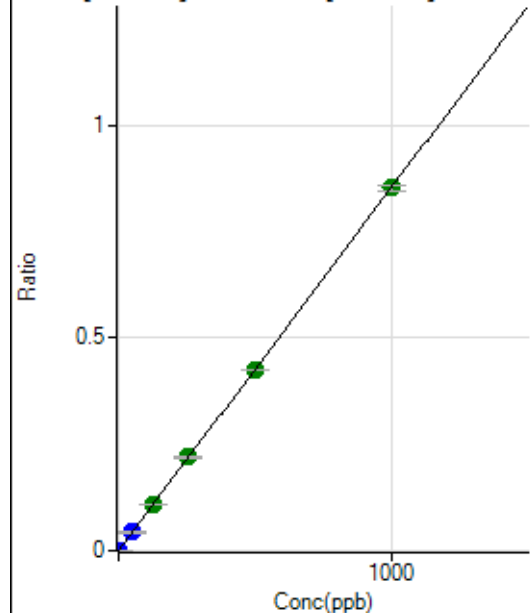
$$y = 0.0014 * x + 1.2413E-005$$

$$R = 0.9999$$

$$DL = 0.005704$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 922.28      | 0.0001 | P    | 10.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.022      | 13587.53    | 0.0009 | P    | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 50.335     | 639646.88   | 0.0430 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.429    | 1588502.71  | 0.1087 | A    | 0.1  |
| 5 | <input type="checkbox"/> | 250.000  | 257.634    | 3149416.98  | 0.2198 | A    | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 497.763    | 6245033.99  | 0.4246 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.889    | 12215673.02 | 0.8519 | A    | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 4373.04     | 0.0003 | P    | 1.9  |

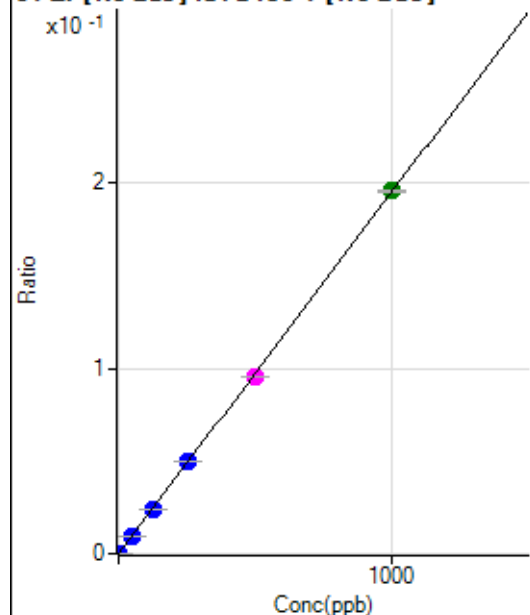
$$y = 8.5283E-004 * x + 6.4387E-005$$

$$R = 1.0000$$

$$DL = 0.02439$$

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 | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 144.45     | 0.0000 | P   | 3.3  |
| 2 | <input type="checkbox"/> | 1.000    | 1.020      | 3030.97    | 0.0002 | P   | 5.5  |
| 3 | <input type="checkbox"/> | 50.000   | 49.229     | 142777.07  | 0.0096 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 123.946    | 352763.95  | 0.0241 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 254.836    | 711314.69  | 0.0496 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 489.621    | 1402615.99 | 0.0954 | M   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.151   | 2804089.21 | 0.1956 | A   | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 866.71     | 0.0001 | P   | 16.7 |

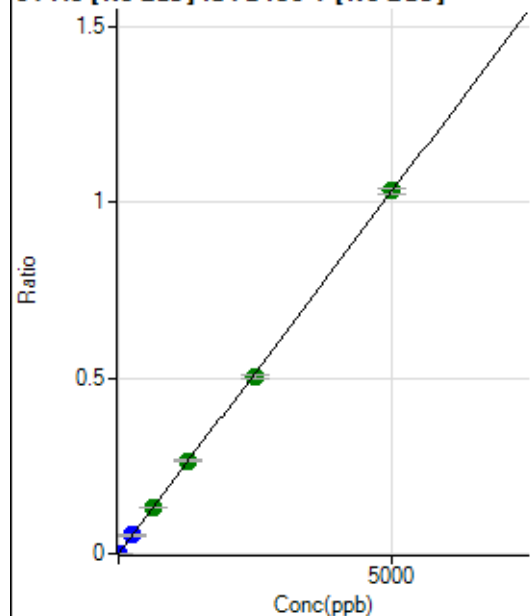
$$y = 1.9473\text{E-}004 * x + 1.0084\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.005111$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 277.79      | 0.0000 | P   | 10.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.102      | 15536.81    | 0.0011 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 250.000  | 254.002    | 778559.25   | 0.0523 | P   | 1.9  |
| 4 | <input type="checkbox"/> | 625.000  | 641.742    | 1931225.74  | 0.1322 | A   | 0.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1287.460   | 3799360.42  | 0.2652 | A   | 3.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2452.862   | 7431107.02  | 0.5053 | A   | 2.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5011.911   | 14802629.33 | 1.0324 | A   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 5537.38     | 0.0004 | P   | 10.1 |

$$y = 2.0598\text{E-}004 * x + 1.9393\text{E-}005$$

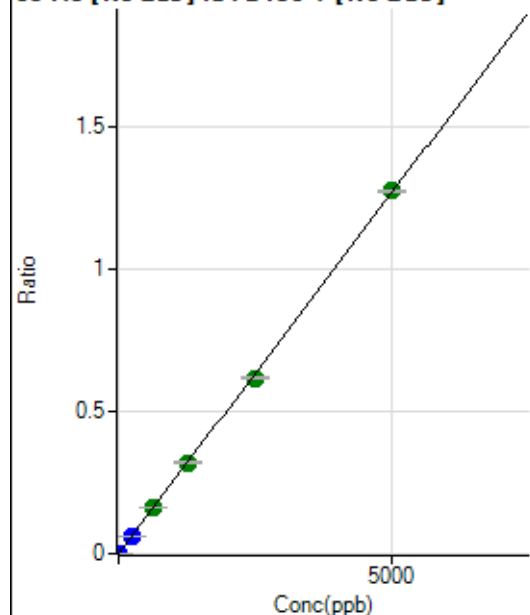
$$R = 0.9999$$

$$DL = 0.02958$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89       | 0.0000 | P    | 34.7 |
| 2 | <input type="checkbox"/> | 5.000    | 4.994      | 18429.31    | 0.0013 | P    | 3.0  |
| 3 | <input type="checkbox"/> | 250.000  | 248.751    | 939915.78   | 0.0632 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 633.359    | 2349865.87  | 0.1609 | A    | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1265.517   | 4604684.56  | 0.3214 | A    | 3.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2433.298   | 9090419.21  | 0.6180 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 5028.489   | 18315200.75 | 1.2772 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 6785.21     | 0.0005 | P    | 3.8  |

$$y = 2.5399\text{E-}004 * x + 9.6981\text{E-}007$$

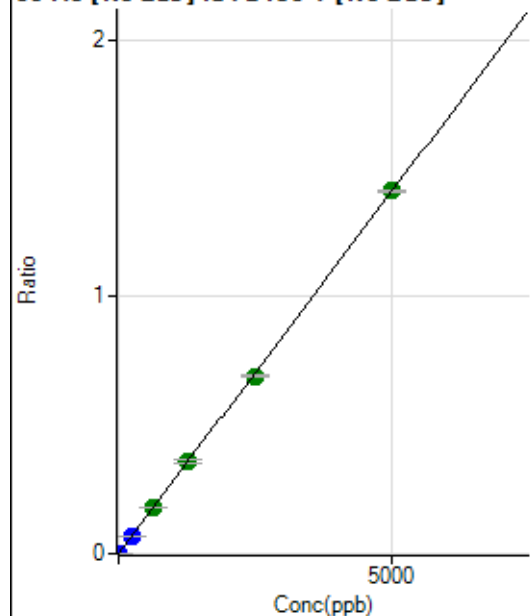
$$R = 0.9999$$

$$DL = 0.003975$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 158.34      | 0.0000 | P    | 31.6 |
| 2 | <input type="checkbox"/> | 5.000    | 5.105      | 21021.85    | 0.0014 | P    | 3.7  |
| 3 | <input type="checkbox"/> | 250.000  | 248.849    | 1042339.14  | 0.0701 | P    | 2.4  |
| 4 | <input type="checkbox"/> | 625.000  | 635.233    | 2612722.13  | 0.1789 | A    | 1.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1282.434   | 5172512.66  | 0.3611 | A    | 3.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2457.123   | 10175365.42 | 0.6918 | A    | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 5012.108   | 20235341.94 | 1.4112 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 14557.98    | 0.0010 | P    | 2.7  |

$$y = 2.8155\text{E-}004 * x + 1.1055\text{E-}005$$

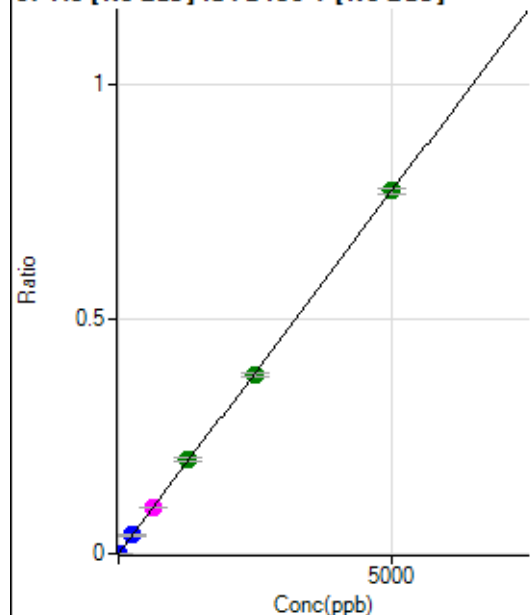
$$R = 0.9999$$

$$DL = 0.03721$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.89       | 0.0000 | P    | 91.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.147      | 11569.03    | 0.0008 | P    | 5.3  |
| 3 | <input type="checkbox"/> | 250.000  | 253.576    | 583690.85   | 0.0392 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 632.760    | 1430193.44  | 0.0979 | M    | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1295.935   | 2872652.52  | 0.2005 | A    | 3.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2465.755   | 5611112.93  | 0.3815 | A    | 1.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 5004.490   | 11103041.65 | 0.7743 | A    | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 4056.28     | 0.0003 | P    | 9.3  |

$$y = 1.5473E-004 * x + 9.6888E-007$$

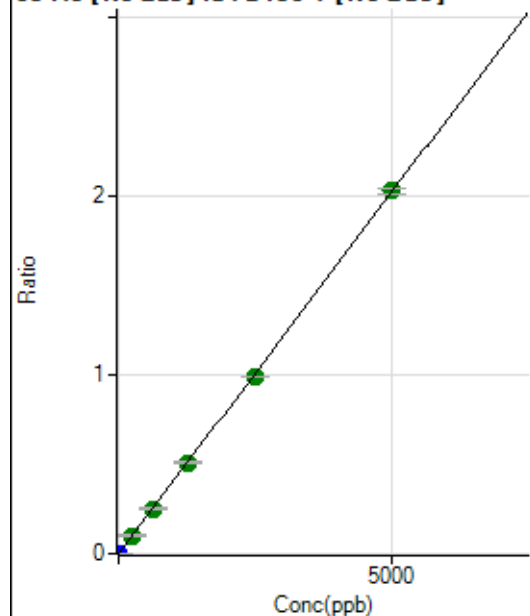
$$R = 0.9999$$

$$DL = 0.01722$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 69.45       | 0.0000 | P    | 34.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.012      | 29415.19    | 0.0020 | P    | 3.3  |
| 3 | <input type="checkbox"/> | 250.000  | 250.104    | 1500652.86  | 0.1009 | A    | 2.8  |
| 4 | <input type="checkbox"/> | 625.000  | 623.453    | 3673971.44  | 0.2515 | A    | 1.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1261.601   | 7290936.79  | 0.5089 | A    | 3.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2450.677   | 14540798.07 | 0.9886 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 5021.949   | 29048289.89 | 2.0258 | A    | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 9703.64     | 0.0007 | P    | 8.6  |

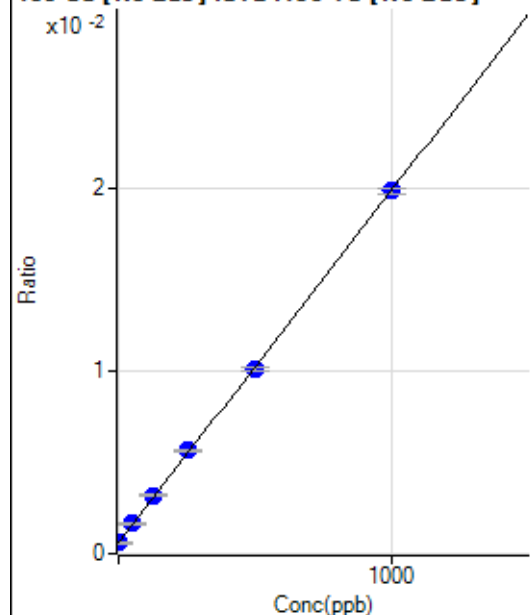
$$y = 4.0339E-004 * x + 4.8491E-006$$

$$R = 0.9999$$

$$DL = 0.0125$$

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      | 5392.87   | 0.0006 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 1.000    | -0.746     | 5287.27   | 0.0006 | P   | 5.6 |
| 3 | <input type="checkbox"/> | 50.000   | 54.687     | 15061.43  | 0.0017 | P   | 3.4 |
| 4 | <input type="checkbox"/> | 125.000  | 134.179    | 29111.95  | 0.0032 | P   | 2.2 |
| 5 | <input type="checkbox"/> | 250.000  | 262.458    | 51594.35  | 0.0057 | P   | 2.5 |
| 6 | <input type="checkbox"/> | 500.000  | 493.615    | 94794.99  | 0.0101 | P   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.698    | 183690.94 | 0.0199 | P   | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 5248.38   | 0.0006 | P   | 4.3 |

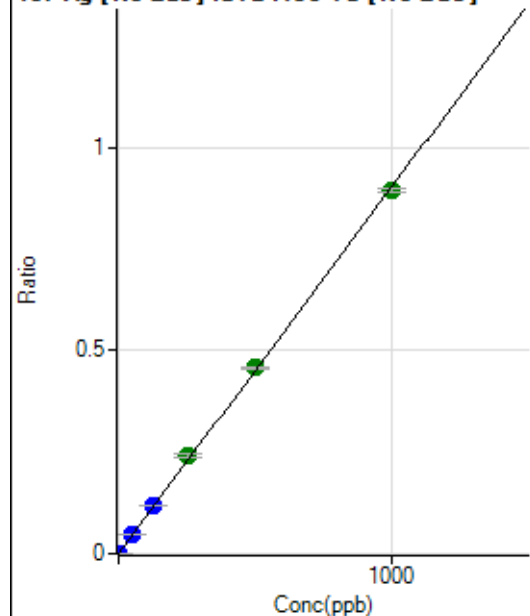
$$y = 1.9318\text{E-}005 * x + 6.0229\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.8045$$

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      | 88.89      | 0.0000 | P   | 45.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.056      | 8655.71    | 0.0010 | P   | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 54.108     | 443365.05  | 0.0488 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 132.605    | 1090199.07 | 0.1196 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 269.482    | 2210615.57 | 0.2431 | A   | 3.4  |
| 6 | <input type="checkbox"/> | 500.000  | 507.584    | 4281321.19 | 0.4579 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.181    | 8247408.52 | 0.8932 | A   | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 3442.20    | 0.0004 | P   | 8.5  |

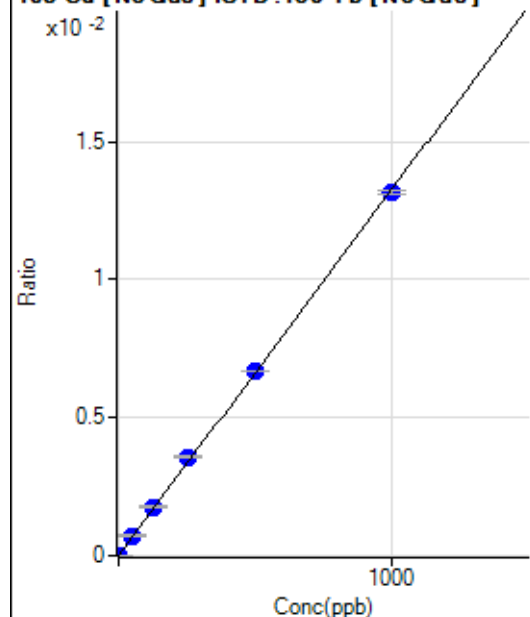
$$y = 9.0206\text{E-}004 * x + 9.9567\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.01504$$

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      | 40.28     | 0.0000 | P   | 47.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.812      | 137.50    | 0.0000 | P   | 16.2 |
| 3 | <input type="checkbox"/> | 50.000   | 54.263     | 6571.09   | 0.0007 | P   | 2.6  |
| 4 | <input type="checkbox"/> | 125.000  | 133.159    | 16122.04  | 0.0018 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 270.031    | 32583.00  | 0.0036 | P   | 3.0  |
| 6 | <input type="checkbox"/> | 500.000  | 504.340    | 62534.25  | 0.0067 | P   | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.590    | 121380.25 | 0.0131 | P   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 172.23    | 0.0000 | P   | 8.6  |

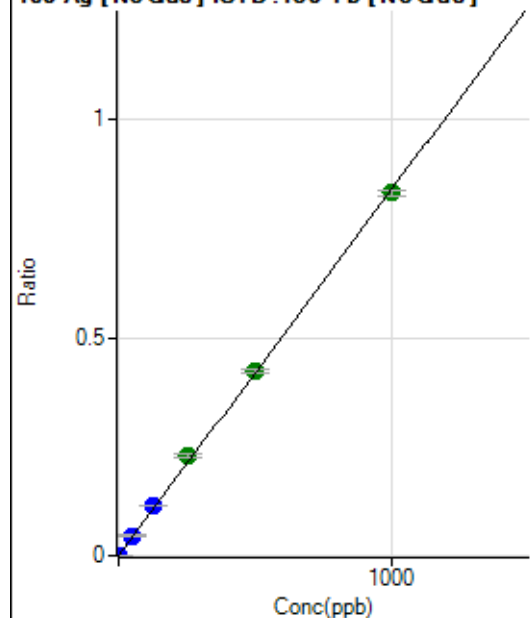
$$y = 1.3252\text{E-}005 * x + 4.5088\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.4842$$

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      | 50.00      | 0.0000 | P   | 16.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.057      | 8027.58    | 0.0009 | P   | 4.8  |
| 3 | <input type="checkbox"/> | 50.000   | 54.719     | 416997.90  | 0.0459 | P   | 2.8  |
| 4 | <input type="checkbox"/> | 125.000  | 135.348    | 1035096.66 | 0.1136 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 272.761    | 2081727.02 | 0.2289 | A   | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 503.255    | 3948005.43 | 0.4223 | A   | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.153    | 7679464.23 | 0.8317 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 3105.98    | 0.0003 | P   | 11.4 |

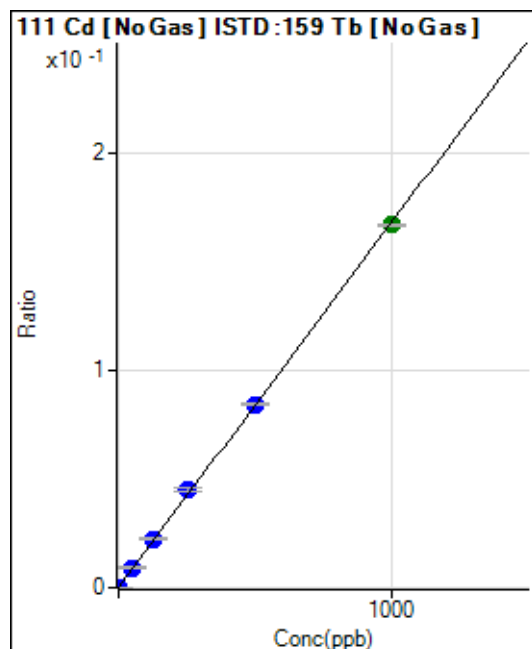
$$y = 8.3914\text{E-}004 * x + 5.5800\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.00319$$

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      | 1058.71    | 0.0001 | P    | 1.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.010      | 2589.09    | 0.0003 | P    | 6.6 |
| 3 | <input type="checkbox"/> | 50.000   | 54.198     | 83783.57   | 0.0092 | P    | 2.2 |
| 4 | <input type="checkbox"/> | 125.000  | 133.369    | 205322.12  | 0.0225 | P    | 1.9 |
| 5 | <input type="checkbox"/> | 250.000  | 267.747    | 410195.07  | 0.0451 | P    | 3.9 |
| 6 | <input type="checkbox"/> | 500.000  | 501.519    | 789115.48  | 0.0844 | P    | 1.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.548    | 1542804.30 | 0.1671 | A    | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 1419.41    | 0.0002 | P    | 4.4 |

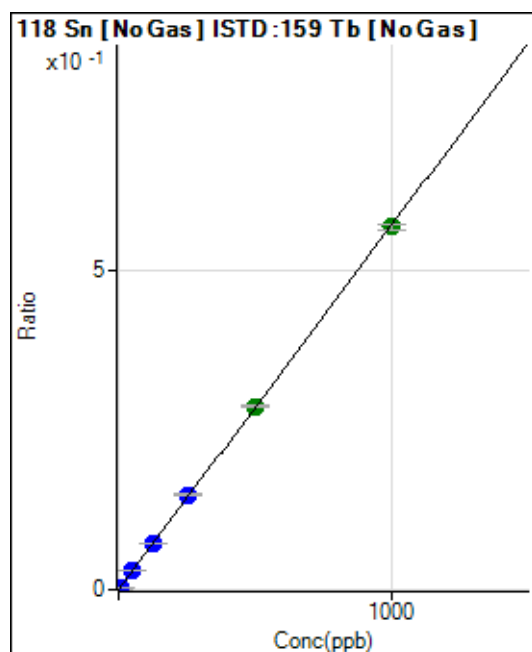
$$y = 1.6805E-004 * x + 1.1824E-004$$

$$R = 0.9998$$

$$DL = 0.02532$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 861.17     | 0.0001 | P    | 5.8  |
| 2 | <input type="checkbox"/> | 5.000    | 5.252      | 27870.70   | 0.0031 | P    | 3.8  |
| 3 | <input type="checkbox"/> | 50.000   | 52.415     | 272933.45  | 0.0301 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 127.434    | 664647.47  | 0.0729 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 261.020    | 1357270.03 | 0.1493 | P    | 4.0  |
| 6 | <input type="checkbox"/> | 500.000  | 502.735    | 2687480.98 | 0.2874 | A    | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.451    | 5254053.42 | 0.5690 | A    | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 3053.25    | 0.0003 | P    | 15.3 |

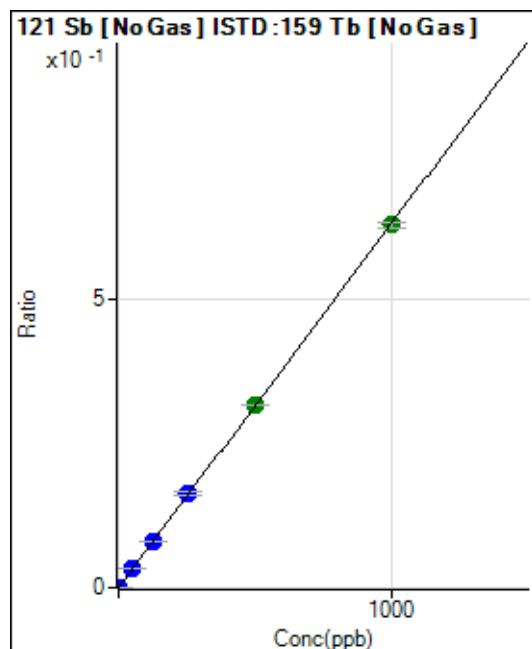
$$y = 5.7155E-004 * x + 9.6220E-005$$

$$R = 0.9999$$

$$DL = 0.02938$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78      | 0.0000 | P   | 62.5 |
| 2 | <input type="checkbox"/> | 2.000    | 2.068      | 11777.64   | 0.0013 | P   | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.185     | 299364.84  | 0.0330 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.444    | 739383.50  | 0.0811 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 259.015    | 1487481.91 | 0.1636 | P   | 3.9  |
| 6 | <input type="checkbox"/> | 500.000  | 502.310    | 2966367.36 | 0.3173 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.052    | 5808395.66 | 0.6291 | A   | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 4448.09    | 0.0005 | P   | 8.0  |

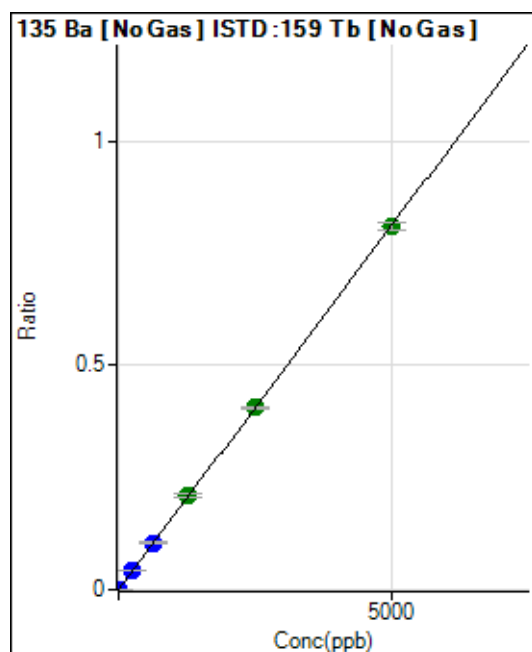
$$y = 6.3159\text{E-}004 * x + 3.1095\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.009231$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33       | 0.0000 | P   | 99.8 |
| 2 | <input type="checkbox"/> | 10.000   | 10.525     | 15364.72   | 0.0017 | P   | 3.8  |
| 3 | <input type="checkbox"/> | 250.000  | 257.831    | 379883.00  | 0.0418 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 646.127    | 955282.31  | 0.1048 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 1250.000 | 1304.306   | 1923610.96 | 0.2116 | A   | 4.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2502.445   | 3795911.67 | 0.4060 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4982.168   | 7462698.52 | 0.8083 | A   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 3028.20    | 0.0003 | P   | 7.6  |

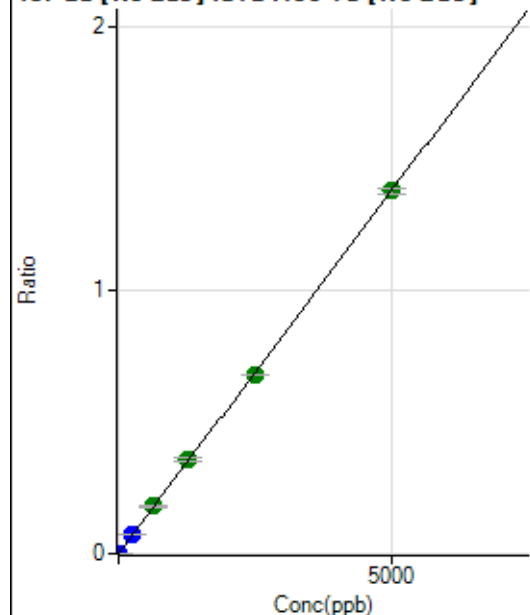
$$y = 1.6224\text{E-}004 * x + 9.2442\text{E-}007$$

$$R = 0.9999$$

$$DL = 0.01707$$

Weight: <None>

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.78       | 0.0000 | P   | 17.0 |
| 2 | <input type="checkbox"/> | 10.000   | 10.761     | 26710.32    | 0.0030 | P   | 3.2  |
| 3 | <input type="checkbox"/> | 250.000  | 262.537    | 657309.51   | 0.0724 | P   | 1.9  |
| 4 | <input type="checkbox"/> | 625.000  | 649.348    | 1631394.30  | 0.1790 | A   | 1.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1303.410   | 3267097.77  | 0.3593 | A   | 3.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2469.032   | 6364082.69  | 0.6807 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4998.460   | 12723115.56 | 1.3780 | A   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 5487.40     | 0.0006 | P   | 2.8  |

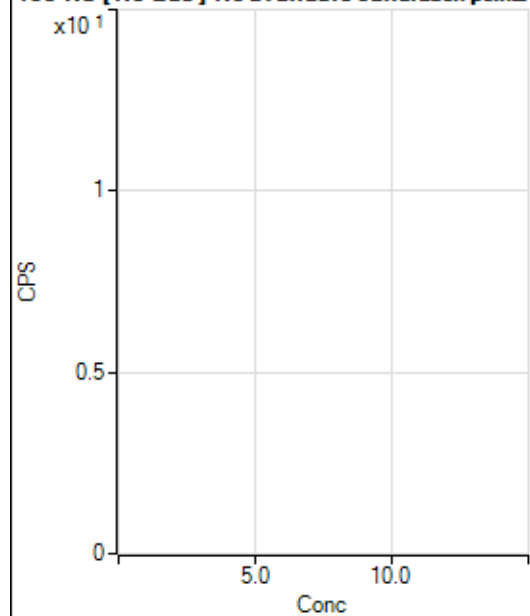
$$y = 2.7568E-004 * x + 3.1015E-006$$

$$R = 0.9999$$

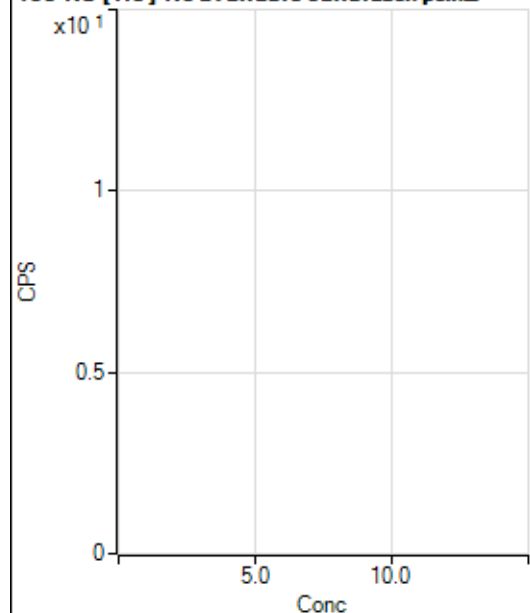
$$DL = 0.005746$$

Weight: &lt;None&gt;

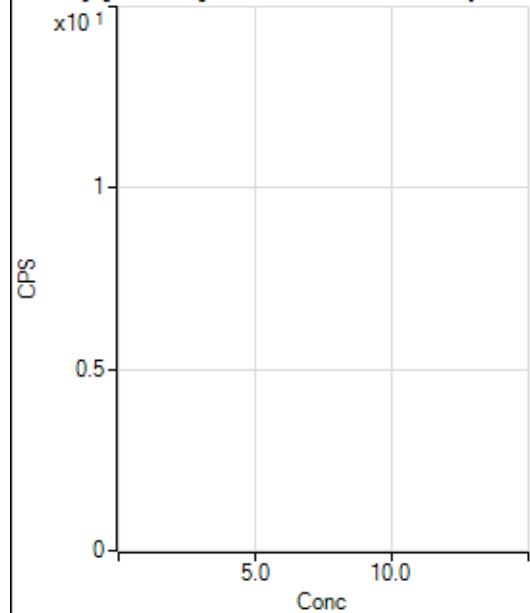
Min Conc: 0

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

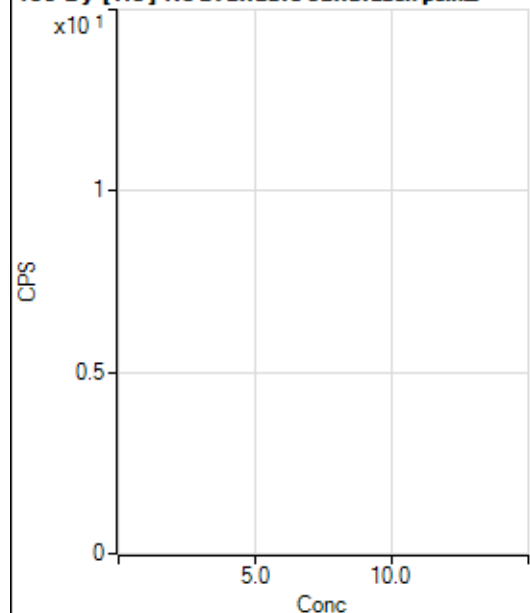
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P   | 173. |
| 2 | <input type="checkbox"/> |       |            | 4.45   |       | P   | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 20.00  |       | P   | 88.2 |
| 4 | <input type="checkbox"/> |       |            | 64.45  |       | P   | 36.3 |
| 5 | <input type="checkbox"/> |       |            | 133.34 |       | P   | 27.8 |
| 6 | <input type="checkbox"/> |       |            | 228.90 |       | P   | 14.9 |
| 7 | <input type="checkbox"/> |       |            | 531.13 |       | P   | 7.6  |
| 8 | <input type="checkbox"/> |       |            | 35.56  |       | P   | 21.6 |

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

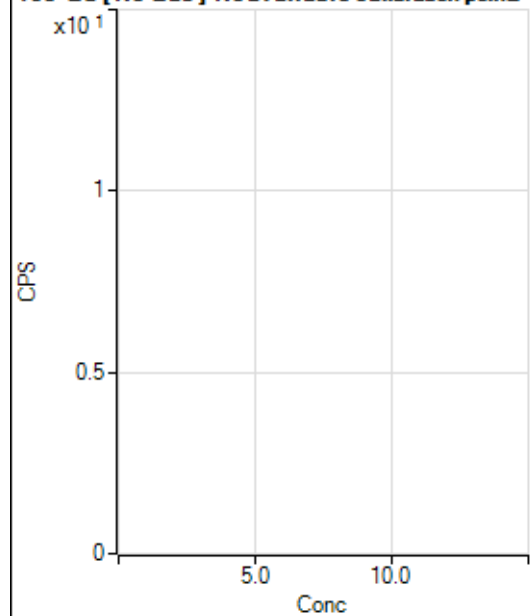
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 2 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 4 | <input type="checkbox"/> |       |            | 4.45  |       | P        | 86.6 |
| 5 | <input type="checkbox"/> |       |            | 5.56  |       | P        | 34.7 |
| 6 | <input type="checkbox"/> |       |            | 14.44 |       | P        | 70.5 |
| 7 | <input type="checkbox"/> |       |            | 35.56 |       | P        | 5.4  |
| 8 | <input type="checkbox"/> |       |            | 15.55 |       | P        | 68.9 |

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

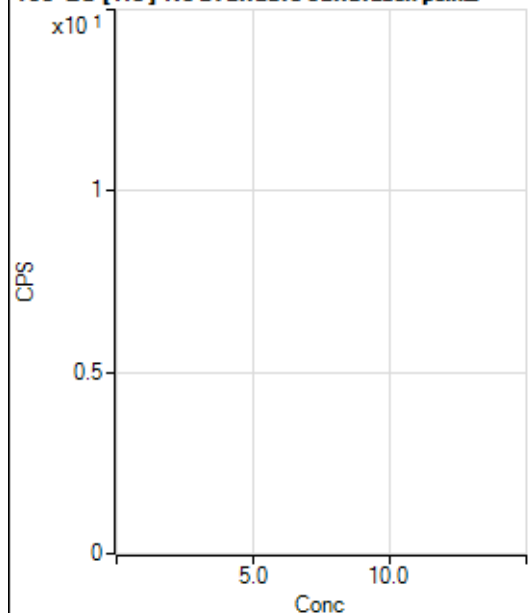
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.33    |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 11.11   |       | P        | 114. |
| 3 | <input type="checkbox"/> |       |            | 16.67   |       | P        | 50.0 |
| 4 | <input type="checkbox"/> |       |            | 55.55   |       | P        | 8.7  |
| 5 | <input type="checkbox"/> |       |            | 100.00  |       | P        | 8.3  |
| 6 | <input type="checkbox"/> |       |            | 250.01  |       | P        | 37.6 |
| 7 | <input type="checkbox"/> |       |            | 405.57  |       | P        | 11.3 |
| 8 | <input type="checkbox"/> |       |            | 1636.26 |       | P        | 13.0 |

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

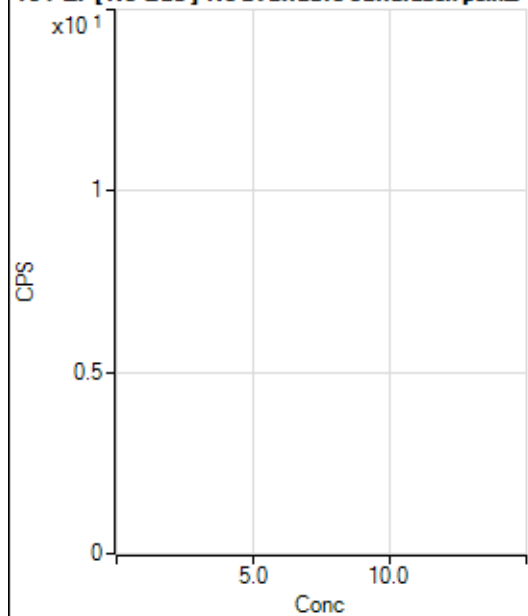
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 0.00   |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 37.8 |
| 5 | <input type="checkbox"/> |       |            | 37.78  |       | P        | 31.0 |
| 6 | <input type="checkbox"/> |       |            | 81.11  |       | P        | 4.7  |
| 7 | <input type="checkbox"/> |       |            | 171.12 |       | P        | 17.7 |
| 8 | <input type="checkbox"/> |       |            | 771.15 |       | P        | 6.9  |

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

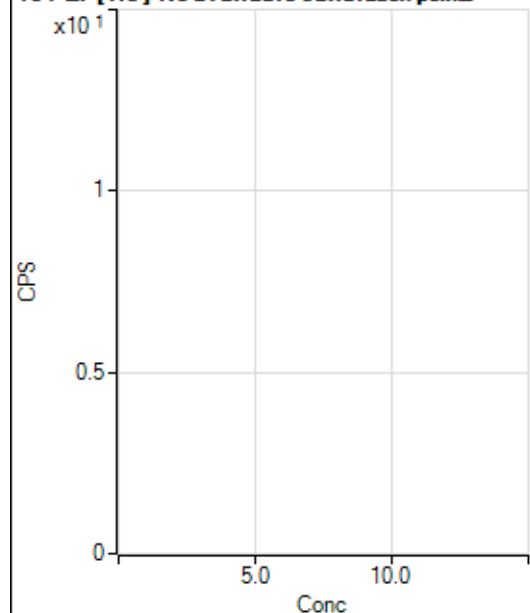
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 100.00  |       | P        | 0.0  |
| 2 | <input type="checkbox"/> |       |            | 77.78   |       | P        | 27.0 |
| 3 | <input type="checkbox"/> |       |            | 86.11   |       | P        | 47.7 |
| 4 | <input type="checkbox"/> |       |            | 119.45  |       | P        | 35.1 |
| 5 | <input type="checkbox"/> |       |            | 186.12  |       | P        | 29.1 |
| 6 | <input type="checkbox"/> |       |            | 319.46  |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 461.13  |       | P        | 3.8  |
| 8 | <input type="checkbox"/> |       |            | 1625.15 |       | P        | 6.9  |

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

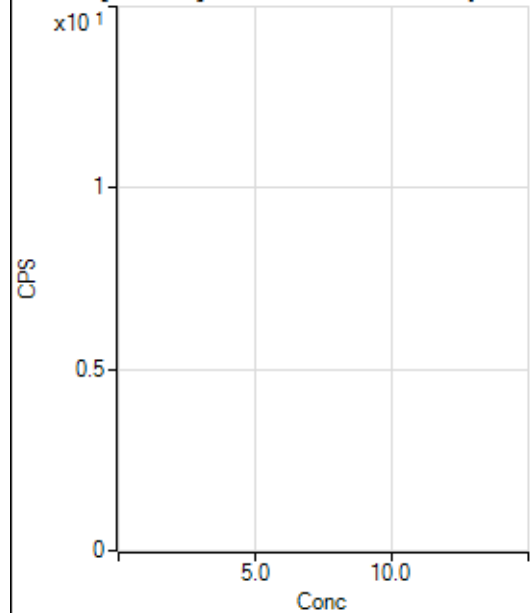
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 35.56  |       | P        | 5.4  |
| 2 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 36.66  |       | P        | 15.7 |
| 4 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 17.2 |
| 5 | <input type="checkbox"/> |       |            | 68.89  |       | P        | 22.9 |
| 6 | <input type="checkbox"/> |       |            | 112.23 |       | P        | 14.7 |
| 7 | <input type="checkbox"/> |       |            | 214.45 |       | P        | 12.7 |
| 8 | <input type="checkbox"/> |       |            | 828.92 |       | P        | 5.3  |

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

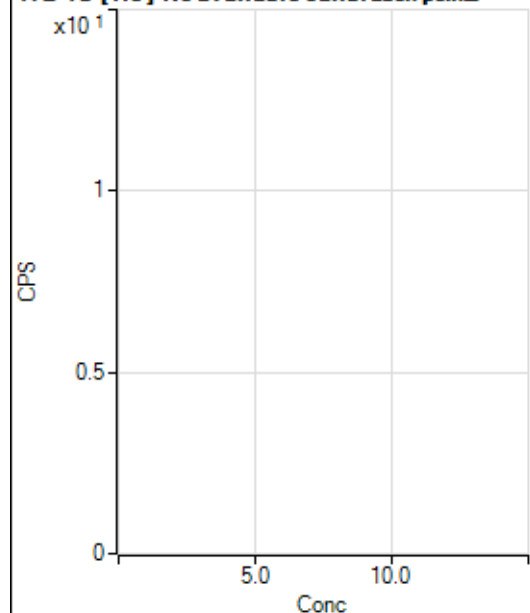
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 27.0 |
| 2 | <input type="checkbox"/> |       |            | 47.22  |       | P        | 27.0 |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 22.9 |
| 4 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 12.4 |
| 5 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 10.0 |
| 6 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 12.4 |
| 7 | <input type="checkbox"/> |       |            | 102.78 |       | P        | 38.3 |
| 8 | <input type="checkbox"/> |       |            | 186.12 |       | P        | 2.6  |

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

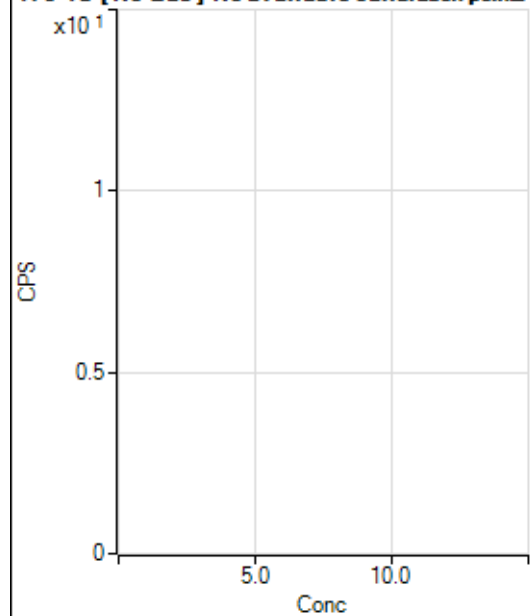
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 33.3 |
| 2 | <input type="checkbox"/> |       |            | 17.78  |       | P        | 57.3 |
| 3 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 43.3 |
| 4 | <input type="checkbox"/> |       |            | 16.66  |       | P        | 91.7 |
| 5 | <input type="checkbox"/> |       |            | 34.44  |       | P        | 47.7 |
| 6 | <input type="checkbox"/> |       |            | 38.89  |       | P        | 4.9  |
| 7 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 15.6 |
| 8 | <input type="checkbox"/> |       |            | 120.00 |       | P        | 34.7 |

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

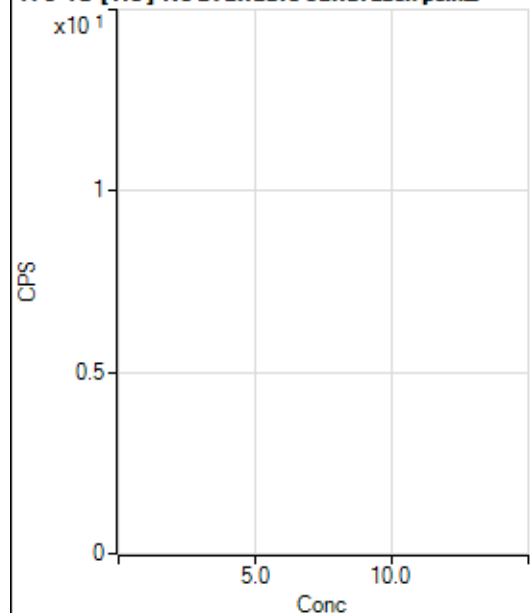
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67 |       | P        | NaN  |
| 2 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 0.0  |
| 3 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 26.7 |
| 4 | <input type="checkbox"/> |       |            | 19.44 |       | P        | 65.5 |
| 5 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 0.0  |
| 6 | <input type="checkbox"/> |       |            | 25.00 |       | P        | 0.0  |
| 7 | <input type="checkbox"/> |       |            | 52.78 |       | P        | 48.2 |
| 8 | <input type="checkbox"/> |       |            | 52.78 |       | P        | 48.2 |

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

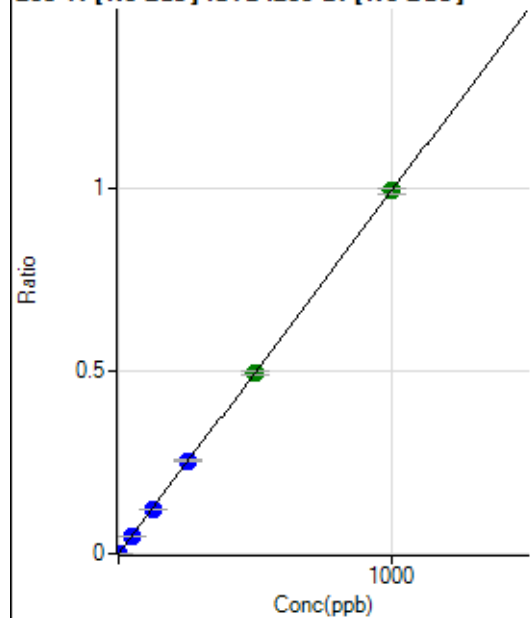
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 20.37 |       | P        | 63.0 |
| 2 | <input type="checkbox"/> |       |            | 9.26  |       | P        | 91.7 |
| 3 | <input type="checkbox"/> |       |            | 1.85  |       | P        | 173. |
| 4 | <input type="checkbox"/> |       |            | 14.81 |       | P        | 43.3 |
| 5 | <input type="checkbox"/> |       |            | 9.26  |       | P        | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 9.26  |       | P        | 69.2 |
| 7 | <input type="checkbox"/> |       |            | 14.82 |       | P        | 21.7 |
| 8 | <input type="checkbox"/> |       |            | 24.08 |       | P        | 26.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1800.18 |       | P        | 4.0  |
| 2 | <input type="checkbox"/> |       |            | 1766.84 |       | P        | 5.7  |
| 3 | <input type="checkbox"/> |       |            | 1825.18 |       | P        | 8.7  |
| 4 | <input type="checkbox"/> |       |            | 1650.15 |       | P        | 7.9  |
| 5 | <input type="checkbox"/> |       |            | 1691.83 |       | P        | 4.0  |
| 6 | <input type="checkbox"/> |       |            | 1661.27 |       | P        | 10.7 |
| 7 | <input type="checkbox"/> |       |            | 1572.36 |       | P        | 6.0  |
| 8 | <input type="checkbox"/> |       |            | 1669.59 |       | P        | 8.9  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1624.20 |       | P        | 0.9  |
| 2 | <input type="checkbox"/> |       |            | 1161.18 |       | P        | 7.5  |
| 3 | <input type="checkbox"/> |       |            | 1038.95 |       | P        | 4.6  |
| 4 | <input type="checkbox"/> |       |            | 1042.66 |       | P        | 6.7  |
| 5 | <input type="checkbox"/> |       |            | 1053.77 |       | P        | 0.8  |
| 6 | <input type="checkbox"/> |       |            | 909.31  |       | P        | 15.0 |
| 7 | <input type="checkbox"/> |       |            | 959.31  |       | P        | 7.9  |
| 8 | <input type="checkbox"/> |       |            | 929.68  |       | P        | 11.5 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 416.69     | 0.0001 | P        | 15.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.928      | 4856.60    | 0.0010 | P        | 4.0  |
| 3 | <input type="checkbox"/> | 50.000   | 49.154     | 240435.86  | 0.0488 | P        | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 121.917    | 591293.51  | 0.1210 | P        | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 255.686    | 1221394.89 | 0.2537 | P        | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 497.473    | 2405152.42 | 0.4935 | A        | 2.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.270   | 4772527.36 | 0.9922 | A        | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 1611.26    | 0.0004 | P        | 7.9  |

$$y = 9.9189\text{E-}004 * x + 8.6793\text{E-}005$$

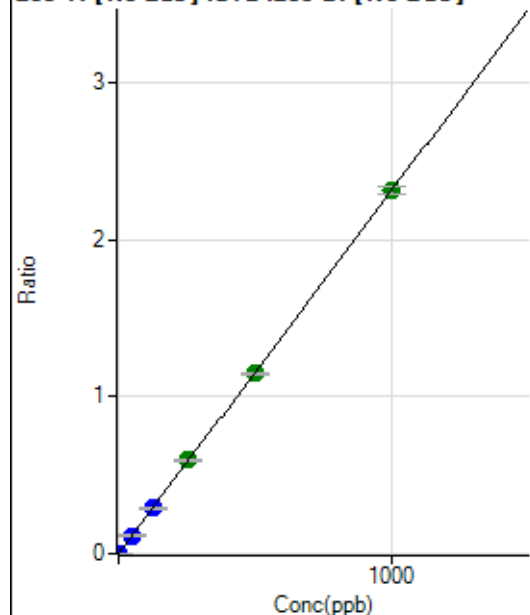
$$R = 1.0000$$

$$DL = 0.04006$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 972.29      | 0.0002 | P   | 1.2  |
| 2 | <input type="checkbox"/> | 1.000    | 0.986      | 11955.82    | 0.0025 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 50.000   | 49.823     | 567485.58   | 0.1153 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 124.914    | 1410827.30  | 0.2887 | P   | 2.4  |
| 5 | <input type="checkbox"/> | 250.000  | 257.498    | 2864627.86  | 0.5950 | A   | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 497.128    | 5597645.35  | 1.1485 | A   | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.581    | 11105772.82 | 2.3092 | A   | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 3942.38     | 0.0009 | P   | 10.1 |

$$y = 0.0023 * x + 2.0242E-004$$

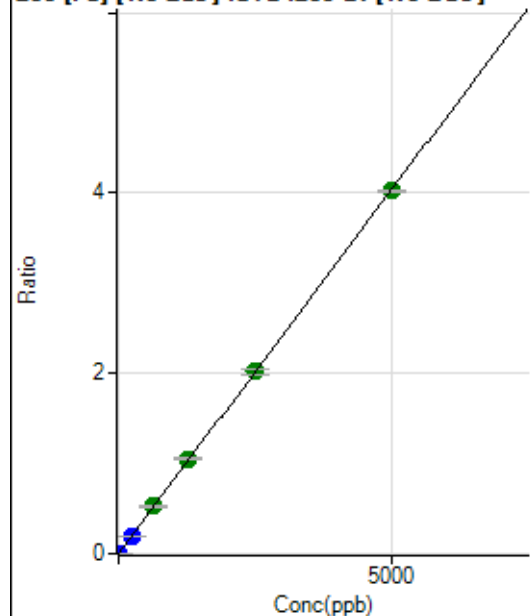
$$R = 1.0000$$

$$DL = 0.003117$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 392.61      | 0.0001 | P   | 11.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.027      | 4389.71     | 0.0009 | P   | 1.4  |
| 3 | <input type="checkbox"/> | 250.000  | 241.217    | 958159.40   | 0.1947 | P   | 2.3  |
| 4 | <input type="checkbox"/> | 625.000  | 648.255    | 2555503.39  | 0.5230 | A   | 3.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1302.927   | 5060592.94  | 1.0511 | A   | 1.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2498.185   | 9821802.30  | 2.0153 | A   | 2.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 4985.208   | 19345075.90 | 4.0216 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 18533.84    | 0.0042 | P   | 1.1  |

$$y = 8.0669E-004 * x + 8.1743E-005$$

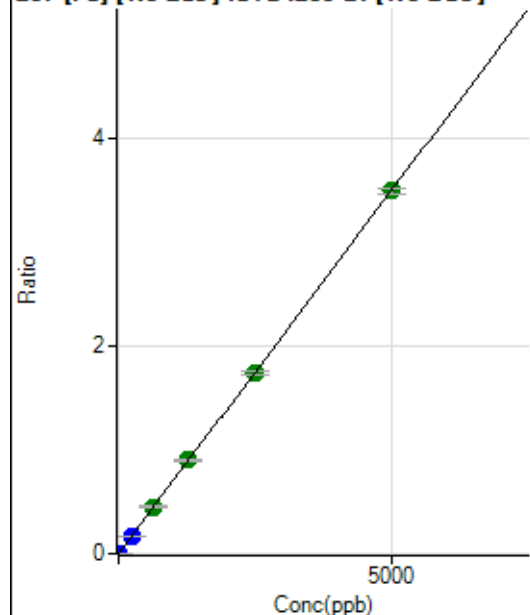
$$R = 0.9999$$

$$DL = 0.03631$$

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      | 414.83      | 0.0001 | P    | 5.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.965      | 3670.96     | 0.0008 | P    | 2.0 |
| 3 | <input type="checkbox"/> | 250.000  | 243.626    | 839508.42   | 0.1706 | P    | 2.0 |
| 4 | <input type="checkbox"/> | 625.000  | 646.342    | 2209499.35  | 0.4523 | A    | 4.5 |
| 5 | <input type="checkbox"/> | 1250.000 | 1292.931   | 4355964.86  | 0.9048 | A    | 2.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2485.439   | 8476126.06  | 1.7392 | A    | 2.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 4994.199   | 16807445.28 | 3.4946 | A    | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 16384.70    | 0.0037 | P    | 3.9 |

$$y = 6.9971E-004 * x + 8.6425E-005$$

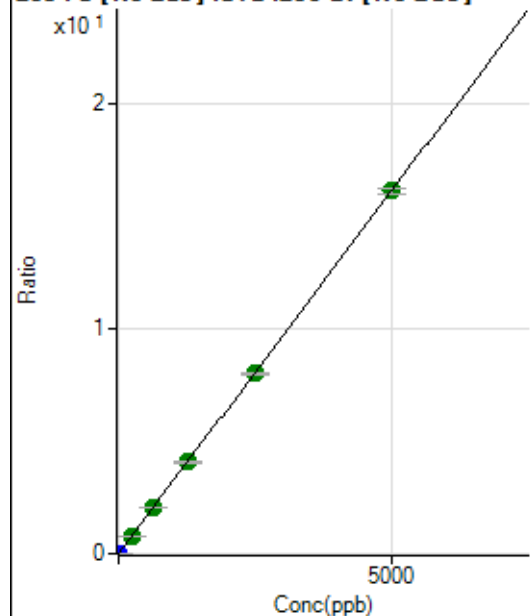
$$R = 0.9999$$

$$DL = 0.02057$$

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      | 1763.04     | 0.0004  | P    | 3.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.006      | 17384.54    | 0.0036  | P    | 1.8 |
| 3 | <input type="checkbox"/> | 250.000  | 247.463    | 3923680.55  | 0.7971  | A    | 1.4 |
| 4 | <input type="checkbox"/> | 625.000  | 637.915    | 10036069.41 | 2.0542  | A    | 2.8 |
| 5 | <input type="checkbox"/> | 1250.000 | 1269.280   | 19676098.19 | 4.0869  | A    | 1.7 |
| 6 | <input type="checkbox"/> | 2500.000 | 2486.884   | 39024316.79 | 8.0070  | A    | 1.1 |
| 7 | <input type="checkbox"/> | 5000.000 | 5000.251   | 77433150.80 | 16.0989 | A    | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 73973.95    | 0.0168  | P    | 1.7 |

$$y = 0.0032 * x + 3.6721E-004$$

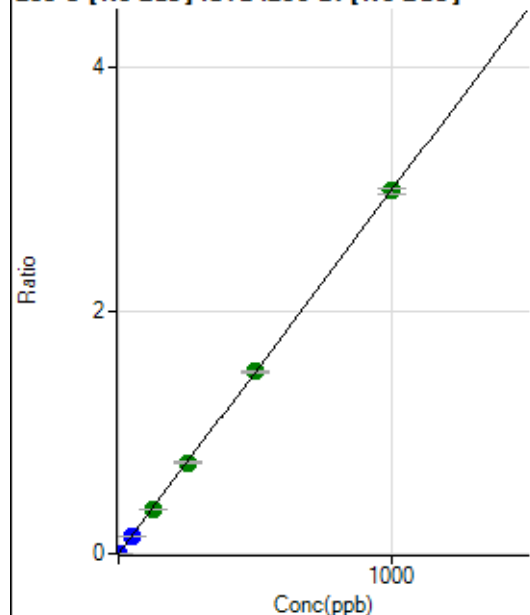
$$R = 1.0000$$

$$DL = 0.01196$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.45       | 0.0000 | P        | 23.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.951      | 13716.09    | 0.0028 | P        | 3.7  |
| 3 | <input type="checkbox"/> | 50.000   | 48.279     | 709843.29   | 0.1442 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 123.683    | 1805703.54  | 0.3694 | A        | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 251.031    | 3609824.69  | 0.7498 | A        | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 502.501    | 7315155.20  | 1.5009 | A        | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.743    | 14347739.90 | 2.9831 | A        | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 2905.98     | 0.0007 | P        | 8.8  |

$$y = 0.0030 * x + 4.0444E-006$$

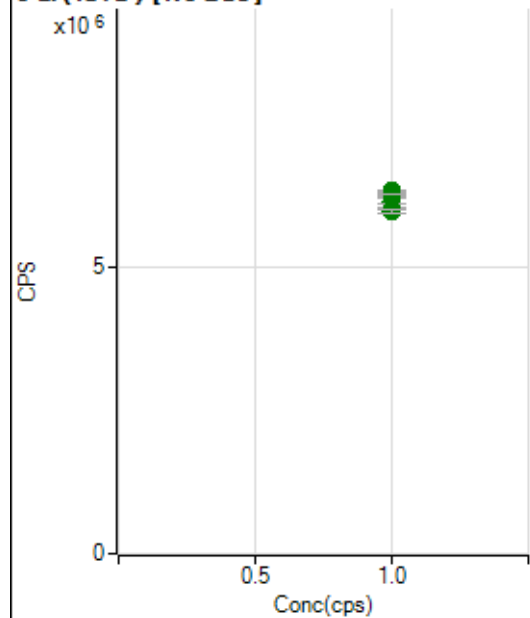
$$R = 1.0000$$

$$DL = 0.0009697$$

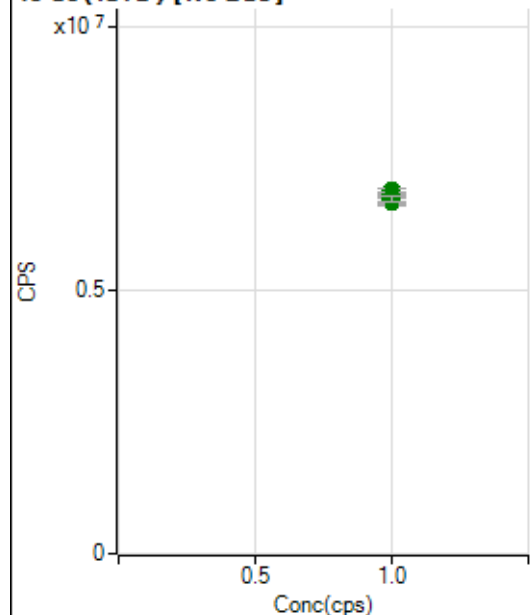
Weight: &lt;None&gt;

Min Conc: 0

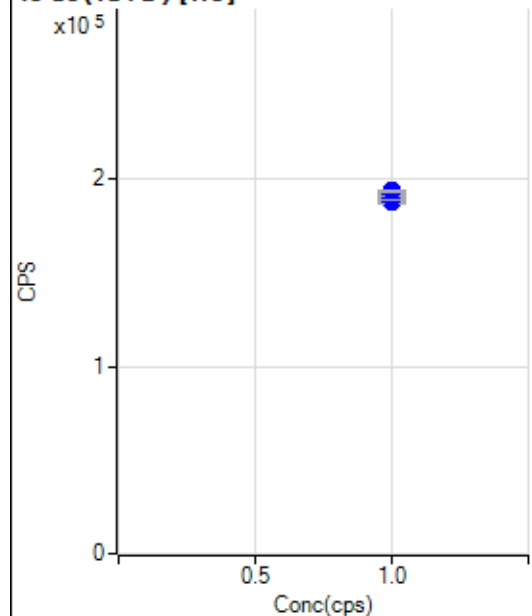
6 Li (ISTD) [No Gas]



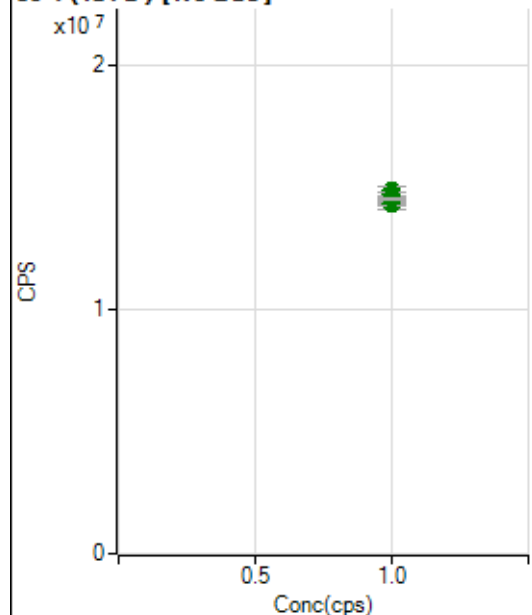
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6250033.03 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6155307.82 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6334169.08 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6326775.72 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6277609.98 |       | A        | 2.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6283045.52 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6015263.12 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5975330.28 |       | A        | 1.0 |

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

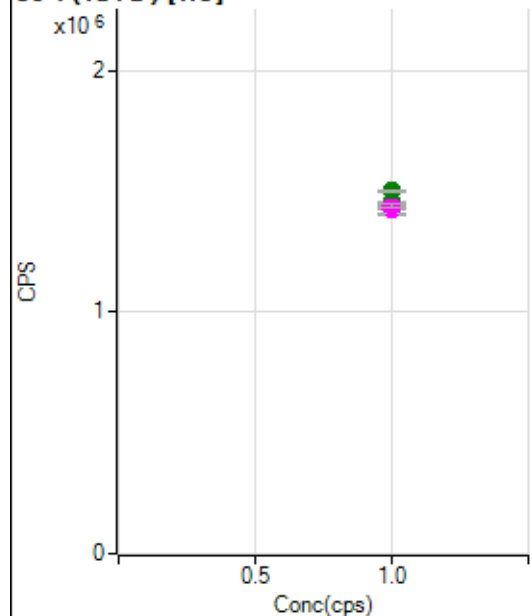
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6728142.12 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6739566.50 |       | A        | 2.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6875614.20 |       | A        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6811634.69 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6677242.96 |       | A        | 2.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6751603.51 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6694159.27 |       | A        | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6729508.23 |       | A        | 1.4 |

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

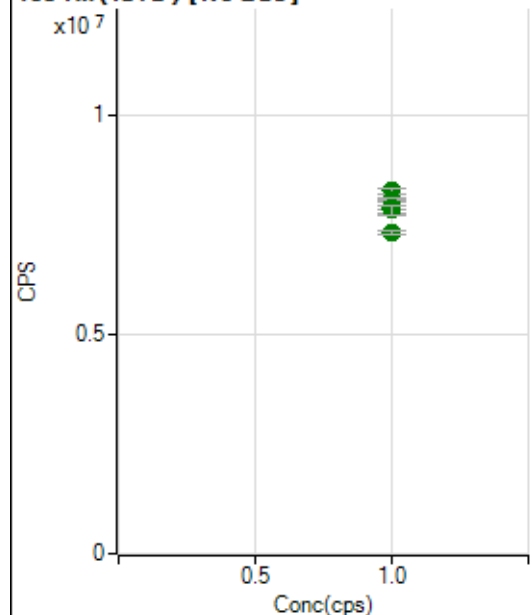
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 189389.58 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 192035.93 |       | P        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 189750.33 |       | P        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 191830.13 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 189994.64 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 187455.26 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 189501.18 |       | P        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 193514.94 |       | P        | 0.4 |

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

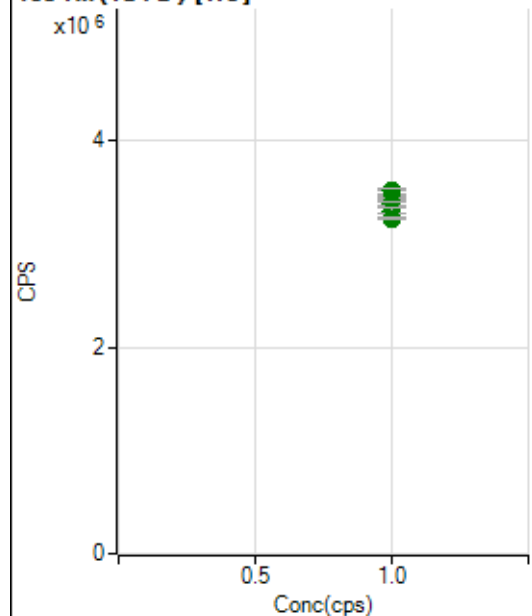
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14323887.15 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14520944.37 |       | A        | 2.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14879966.45 |       | A        | 2.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14608343.95 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14333278.54 |       | A        | 2.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14709262.70 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14339687.42 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14571052.84 |       | A        | 0.8 |

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

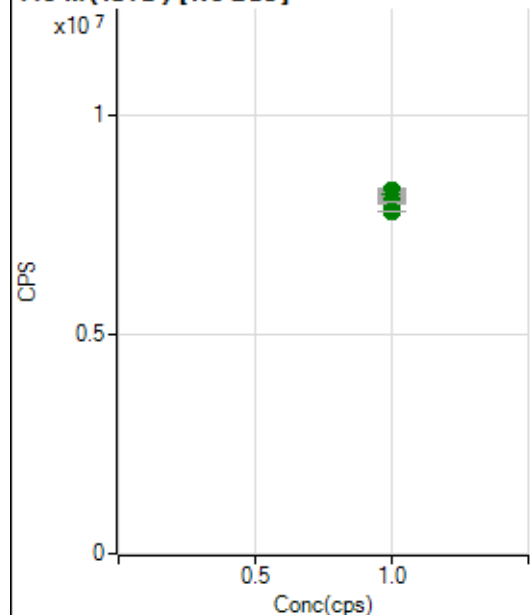
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1425359.30 |       | M        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1449658.35 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1420407.44 |       | M        | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1453724.08 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1431783.26 |       | M        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1427260.24 |       | M        | 2.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1437966.78 |       | M        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1501164.39 |       | A        | 0.4 |

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

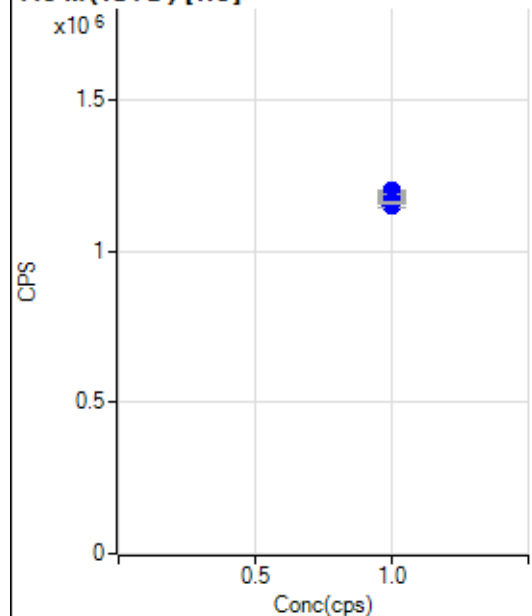
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8037448.53 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8103115.89 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8289397.75 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8093405.57 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7885255.21 |       | A        | 2.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7913644.45 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7843840.98 |       | A        | 2.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7348591.31 |       | A        | 1.3 |

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

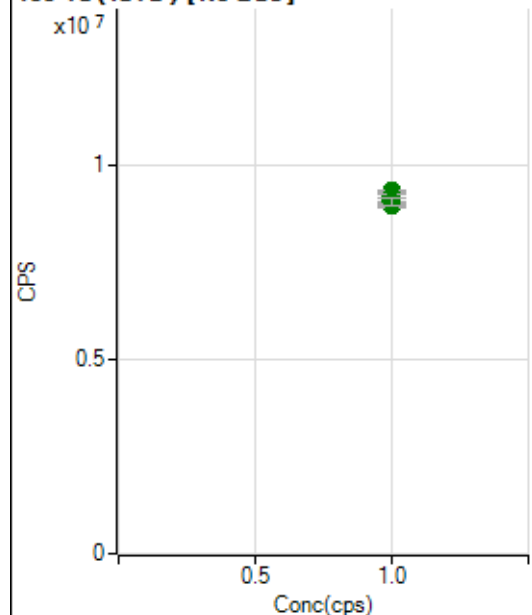
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3457597.45 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3488682.45 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3381232.69 |       | A        | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3512923.84 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3437632.59 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3388321.31 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3321985.71 |       | A        | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3244950.09 |       | A        | 0.6 |

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

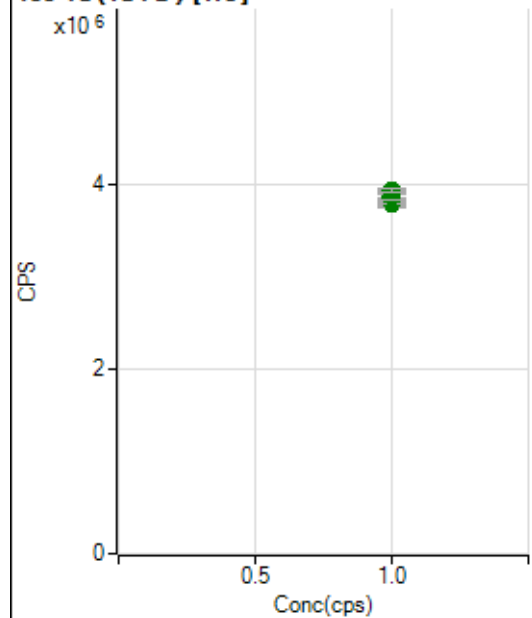
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8191922.93 |       | A        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8131142.30 |       | A        | 2.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8260631.02 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8265408.92 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8192982.52 |       | A        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8125677.07 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8003866.88 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7789040.84 |       | A        | 0.0 |

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

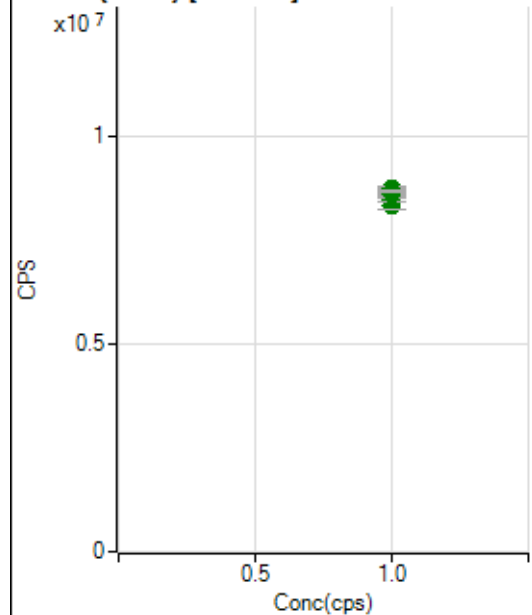
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1181561.65 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1186201.97 |       | P        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1179100.70 |       | P        | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1199410.59 |       | P        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1187278.94 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1165839.17 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1149330.16 |       | P        | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1160476.39 |       | P        | 0.4 |

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

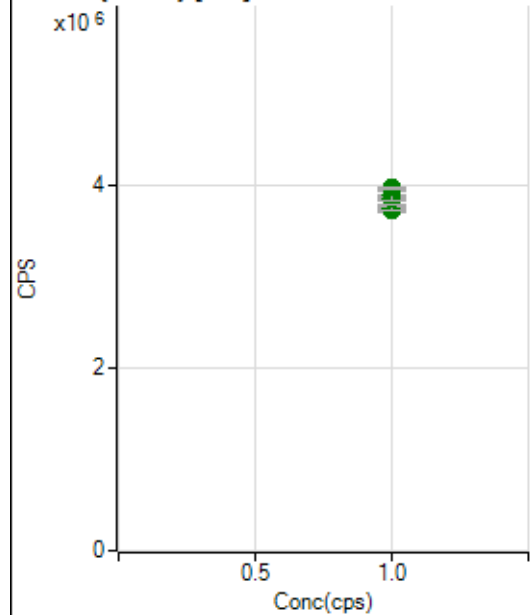
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8953552.09 |       | A        | 1.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8995244.59 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9083392.71 |       | A        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9113782.71 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9100491.67 |       | A        | 3.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9349861.53 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9234019.10 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9073758.27 |       | A        | 2.2 |

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

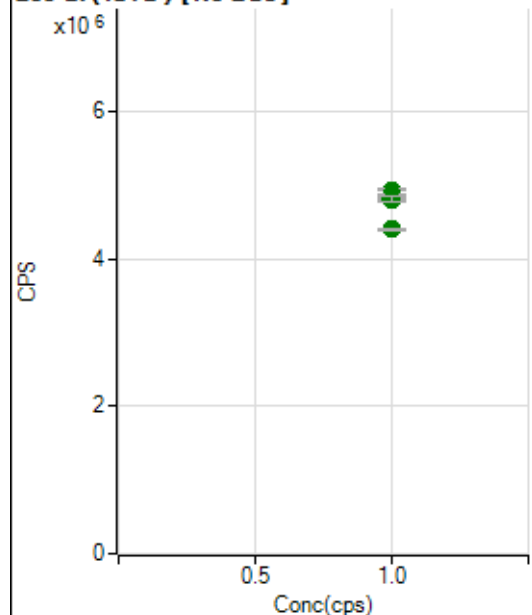
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3786680.26 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3814430.22 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3815853.66 |       | A        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3862502.93 |       | A        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3901092.62 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3863567.48 |       | A        | 3.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3890569.32 |       | A        | 2.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3935874.46 |       | A        | 1.2 |

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

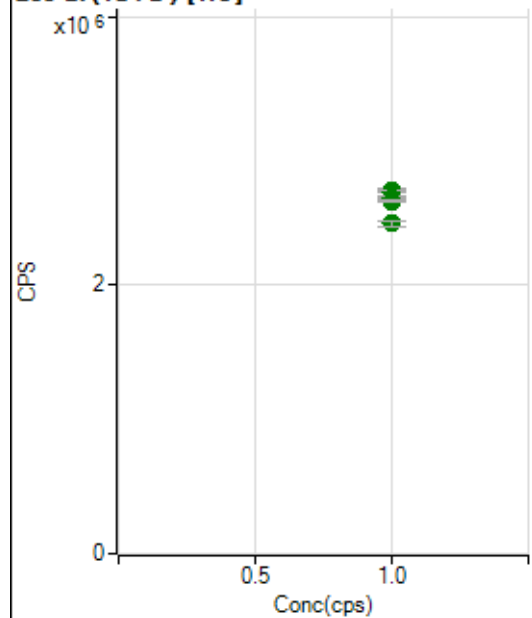
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8331487.34 |       | A        | 2.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8475219.20 |       | A        | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8644062.69 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8646727.80 |       | A        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8611914.69 |       | A        | 2.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8719567.21 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8714635.44 |       | A        | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8650912.00 |       | A        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3748203.35 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3734749.91 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3755462.72 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3867363.73 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3891253.72 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3851718.24 |       | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3891290.60 |       | A        | 2.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3979036.96 |       | A        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4802807.91 |       | A        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4821648.92 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4923332.98 |       | A        | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4887794.37 |       | A        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4814775.69 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4873963.26 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4810469.41 |       | A        | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4406580.00 |       | A        | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2648008.07 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2666457.98 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2668383.09 |       | A        | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2701077.67 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2685952.49 |       | A        | 1.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2646805.64 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2625872.22 |       | A        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2460463.19 |       | A        | 1.6 |

# US EPA Tune Check Report

Operator Name Jaswal  
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8070121SMS.b  
Acq. Date-Time 2021-07-01 09:34:37  
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    |              | 17329  | 173290.15  |                            |             | 0.559  | 5.000           |
| 24   |              | 127072 | 1270722.44 |                            |             | 0.484  | 5.000           |
| 25   |              | 17563  | 175629.91  |                            |             | 0.431  | 5.000           |
| 26   |              | 20544  | 205439.74  |                            |             | 0.309  | 5.000           |
| 59   |              | 22940  | 229396.73  |                            |             | 0.477  | 5.000           |
| 113  |              | 9750   | 97502.80   |                            |             | 0.498  | 5.000           |
| 115  |              | 29635  | 296348.07  |                            |             | 1.664  | 5.000           |
| 206  |              | 10620  | 106199.98  |                            |             | 0.980  | 5.000           |
| 207  |              | 8813   | 88125.93   |                            |             | 0.693  | 5.000           |
| 208  |              | 21872  | 218724.87  |                            |             | 0.510  | 5.000           |
| 220  |              | 1      | 5.70       |                            |             | 14.678 |                 |

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

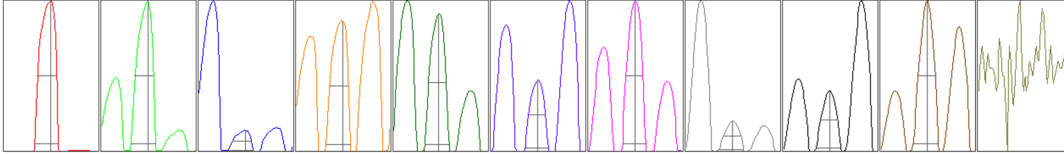
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 17465       | 17372       | 17242       | 17334       | 17231       |
| 24   | 127141      | 126227      | 126855      | 127214      | 127925      |
| 25   | 17639       | 17577       | 17630       | 17476       | 17493       |
| 26   | 20624       | 20539       | 20556       | 20554       | 20447       |
| 59   | 23085       | 22856       | 22997       | 22950       | 22811       |
| 113  | 9810        | 9780        | 9745        | 9682        | 9735        |
| 115  | 30356       | 29868       | 29558       | 29131       | 29262       |
| 206  | 10685       | 10748       | 10624       | 10480       | 10563       |
| 207  | 8854        | 8832        | 8864        | 8800        | 8712        |
| 208  | 21870       | 21979       | 21916       | 21911       | 21685       |

# 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    | 29981.27    | 9.00   | 8.90 - 9.10     |             |
| 24   | 230894.36   | 24.00  | 23.90 - 24.10   |             |
| 25   | 30913.39    | 25.00  | 24.90 - 25.10   |             |
| 26   | 34991.07    | 26.00  | 25.90 - 26.10   |             |
| 59   | 43178.78    | 58.95  | 58.90 - 59.10   |             |
| 113  | 19261.61    | 113.00 | 112.90 - 113.10 |             |
| 115  | 58563.94    | 115.00 | 114.90 - 115.10 |             |
| 206  | 20472.38    | 206.00 | 205.90 - 206.10 |             |
| 207  | 17158.36    | 207.00 | 206.90 - 207.10 |             |
| 208  | 42419.01    | 208.00 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.61  | 0.740 | 0.900           |             |
| 24   | 0.59  | 0.779 | 0.900           |             |
| 25   | 0.60  | 0.780 | 0.900           |             |
| 26   | 0.61  | 0.778 | 0.900           |             |
| 59   | 0.55  | 0.773 | 0.900           |             |
| 113  | 0.53  | 0.731 | 0.900           |             |
| 115  | 0.53  | 0.728 | 0.900           |             |
| 206  | 0.55  | 0.776 | 0.900           |             |
| 207  | 0.54  | 0.782 | 0.900           |             |
| 208  | 0.54  | 0.796 | 0.900           |             |
| 220  |       |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 L/min Dilution Gas 0.40 L/min

# US EPA Tune Check Report

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 9.5 V | Deflect    | 15.8 V |
| Extract 2  | -160.0 V | Cell Entrance | -30 V | Plate Bias | -50 V  |
| Omega Bias | -85 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

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

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 0.9995 | QP Bias | -4.0 V |
| Mass Offset | 125 | Axis Offset | -0.05  |         |        |

## Hardware Settings

### Torch

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

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.0 mV | Analog HV | 2207 V | Pulse HV | 1535 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 4478  | 44781.42  |                            |             | 1.627 |                 |
| 89   |              | 19911 | 199110.26 |                            |             | 1.795 |                 |
| 205  |              | 28955 | 289546.68 |                            |             | 1.533 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 4530        | 4352        | 4482        | 4520        | 4506        |
| 89   | 20102       | 19320       | 19835       | 20092       | 20206       |
| 205  | 29081       | 28330       | 28715       | 29162       | 29485       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | ---     | Nebulizer Gas  | 0.75 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |       |         |       |
|-----------|--------|------------|-------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 9.5 V | Deflect | 4.6 V |
|-----------|--------|------------|-------|---------|-------|

# US EPA Tune Check Report

|                          |            |               |         |                       |         |
|--------------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2                | -160.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias               | -85 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                | 123        | Axis Gain     | 0.9995  | QP Bias               | -13.0 V |
| Mass Offset              | 125        | Axis Offset   | -0.05   |                       |         |
| <b>Hardware Settings</b> |            |               |         |                       |         |
| <b>Torch</b>             |            |               |         |                       |         |
| Torch H                  | 1.0 mm     | Torch V       | -0.8 mm |                       |         |
| <b>EM</b>                |            |               |         |                       |         |
| Discriminator            | 4.0 mV     | Analog HV     | 2207 V  | Pulse HV              | 1535 V  |