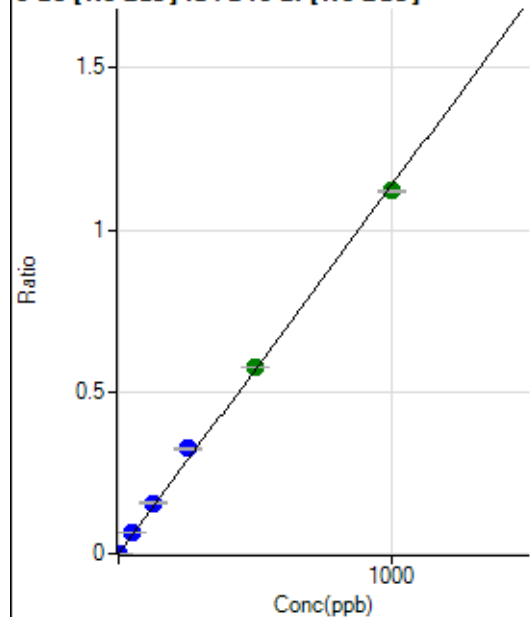


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042324-MS2.b\  
Analysis File: P7042324-MS2.batch.bin  
DA Date-Time: 2024-04-23 21:53:18  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2024-04-23 10:44:25 |
| 2     | 006CALS.d          | S02         | 2024-04-23 10:51:03 |
| 3     | 007CALS.d          | S03         | 2024-04-23 10:54:17 |
| 4     | 008CALS.d          | S04         | 2024-04-23 10:57:17 |
| 5     | 009CALS.d          | S05         | 2024-04-23 11:00:06 |
| 6     | 010CALS.d          | S06         | 2024-04-23 11:02:53 |
| 7     | 014CALS.d          | S07         | 2024-04-23 11:25:27 |
| 8     | 015CALS.d          | S08         | 2024-04-23 11:28:15 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.88      | 0.0000 | P   | 19.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.064      | 3480.71    | 0.0012 | P   | 3.1  |
| 3 | <input type="checkbox"/> | 50.000   | 56.857     | 179482.25  | 0.0647 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 125.000  | 138.065    | 435545.18  | 0.1570 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 284.945    | 882110.62  | 0.3240 | P   | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 507.277    | 1538528.16 | 0.5767 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.649    | 3026458.81 | 1.1205 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 1223.83    | 0.0005 | P   | 13.2 |

$$y = 0.0011 * x + 1.8216E-005$$

$$R = 0.9993$$

$$DL = 0.009584$$

$$BEC = 0.01602$$

Weight: &lt;None&gt;

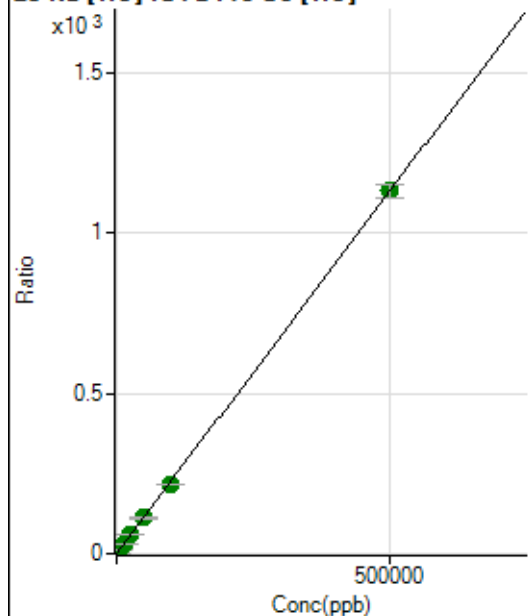
Min Conc: 0

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

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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|--------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 34189.02     | 0.0702    | P   | 1.0 |
| 2 | <input type="checkbox"/> | 500.000   | 465.717    | 544123.29    | 1.1213    | P   | 0.7 |
| 3 | <input type="checkbox"/> | 5000.000  | 5054.787   | 5458773.46   | 11.4789   | A   | 1.3 |
| 4 | <input type="checkbox"/> | 12500.000 | 12340.596  | 13152270.22  | 27.9231   | A   | 0.5 |
| 5 | <input type="checkbox"/> | 25000.000 | 25649.168  | 26889602.66  | 57.9607   | A   | 0.7 |
| 6 | <input type="checkbox"/> | 50000.000 | 49209.513  | 50476718.69  | 111.1367  | A   | 1.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 95771.850  | 102093680.70 | 216.2284  | A   | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 500895.69  | 508379761.31 | 1,130.597 | A   | 3.6 |

$$y = 0.0023 * x + 0.0702$$

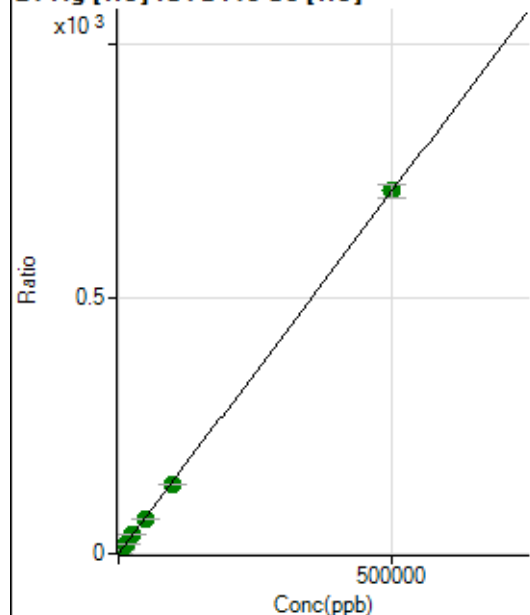
$$R = 1.0000$$

$$DL = 0.9437$$

$$BEC = 31.1$$

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      | 3314.83      | 0.0068   | P   | 0.4 |
| 2 | <input type="checkbox"/> | 500.000   | 464.282    | 322879.40    | 0.6654   | P   | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5075.340   | 3426518.04   | 7.2061   | A   | 1.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 12295.265  | 8217982.72   | 17.4475  | A   | 0.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 25689.239  | 16908614.61  | 36.4466  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 48929.195  | 31526352.58  | 69.4122  | A   | 0.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 95048.053  | 63661350.72  | 134.8311 | A   | 0.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 501067.40  | 319604928.57 | 710.7637 | A   | 3.5 |

$$y = 0.0014 * x + 0.0068$$

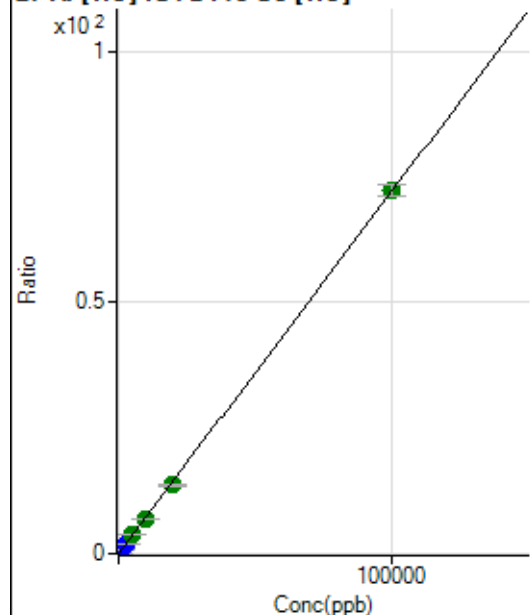
$$R = 0.9999$$

$$DL = 0.05689$$

$$BEC = 4.798$$

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      | 536.68      | 0.0011  | P   | 2.3 |
| 2 | <input type="checkbox"/> | 20.000    | 18.416     | 6968.30     | 0.0144  | P   | 2.2 |
| 3 | <input type="checkbox"/> | 1000.000  | 1039.142   | 356248.03   | 0.7492  | P   | 1.5 |
| 4 | <input type="checkbox"/> | 2500.000  | 2525.451   | 856844.94   | 1.8192  | P   | 0.3 |
| 5 | <input type="checkbox"/> | 5000.000  | 5099.363   | 1703575.18  | 3.6721  | A   | 0.9 |
| 6 | <input type="checkbox"/> | 10000.000 | 9702.254   | 3172730.68  | 6.9857  | A   | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 18961.771  | 6445771.50  | 13.6515 | A   | 1.9 |
| 8 | <input type="checkbox"/> | 100000.00 | 100231.42  | 32447504.24 | 72.1568 | A   | 3.3 |

$$y = 7.1989E-004 * x + 0.0011$$

$$R = 0.9999$$

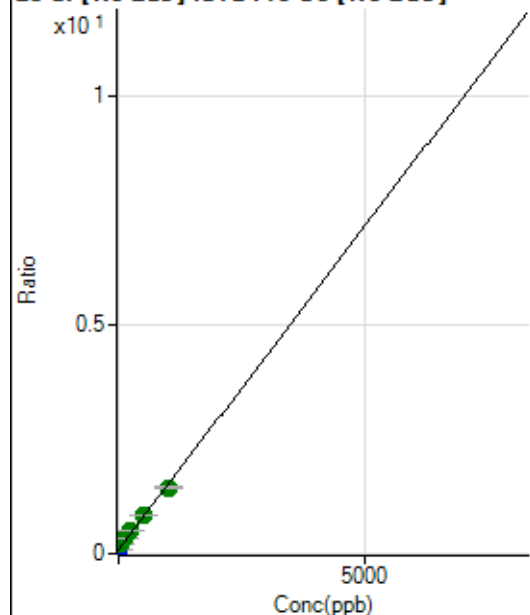
$$DL = 0.107$$

$$BEC = 1.531$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 492860.75  | 0.0826 | P   | 1.2 |
| 2 | <input type="checkbox"/> | 10.000   | 4.739      | 534270.59  | 0.0893 | P   | 0.3 |
| 3 | <input type="checkbox"/> | 50.000   | 88.359     | 1208713.85 | 0.2072 | A   | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 188.269    | 2027232.80 | 0.3480 | A   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 292.585    | 2823717.53 | 0.4951 | A   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 526.074    | 4660009.44 | 0.8243 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 966.543    | 8373051.26 | 1.4453 | A   | 2.6 |
| 8 | <input type="checkbox"/> |          |            | 684529.24  | 0.1180 | P   | 1.8 |

$$y = 0.0014 * x + 0.0826$$

$$R = 0.9966$$

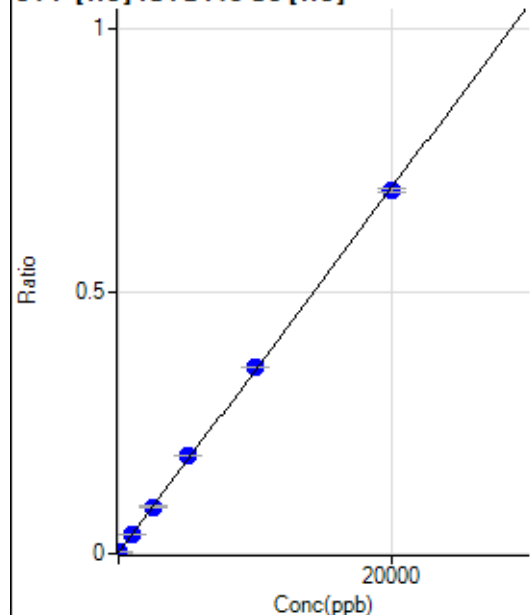
$$DL = 2.128$$

$$BEC = 58.57$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -15.146    | 647.80    | 0.0013 | P   | 6.4 |
| 2 | <input type="checkbox"/> | 0.000     | 15.146     | 1156.72   | 0.0024 | P   | 4.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 1039.073   | 18070.74  | 0.0380 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 2527.081   | 42277.11  | 0.0898 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 5000.000  | 5304.556   | 86460.07  | 0.1864 | P   | 0.7 |
| 6 | <input type="checkbox"/> | 10000.000 | 10170.126  | 161512.16 | 0.3556 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 19833.459  | 326604.54 | 0.6917 | P   | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 896.70    | 0.0020 | P   | 5.7 |

$$y = 3.4783E-005 * x + 0.0019$$

$$R = 0.9998$$

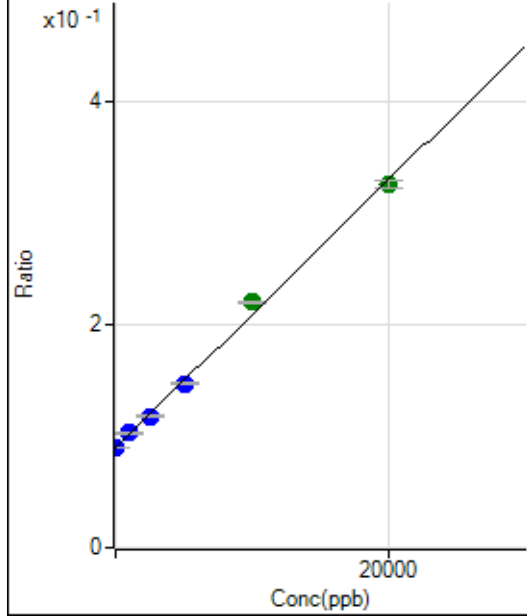
$$DL = 7.832$$

$$BEC = 53.38$$

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     | -7.932     | 533159.94  | 0.0893 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 0.000     | 7.932      | 535816.92  | 0.0895 | P   | 0.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1132.124   | 601228.76  | 0.1030 | P   | 2.0 |
| 4 | <input type="checkbox"/> | 2500.000  | 2355.828   | 685889.22  | 0.1178 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 5000.000  | 4811.075   | 839965.13  | 0.1473 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 10000.000 | 10882.143  | 1245301.41 | 0.2203 | A   | 1.1 |
| 7 | <input type="checkbox"/> | 20000.000 | 19617.575  | 1884866.20 | 0.3253 | A   | 2.0 |
| 8 | <input type="checkbox"/> |           |            | 493899.50  | 0.0851 | P   | 1.1 |

$$y = 1.2024\text{E-}005 * x + 0.0894$$

R = 0.9985

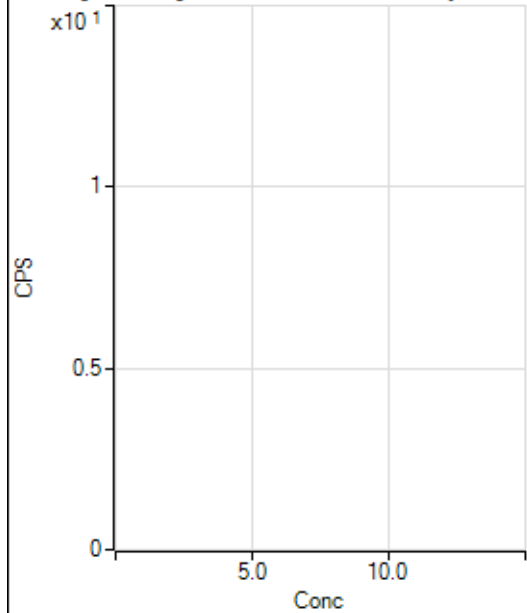
DL = 159.3

BEC = 7438

Weight: &lt;None&gt;

Min Conc: 0

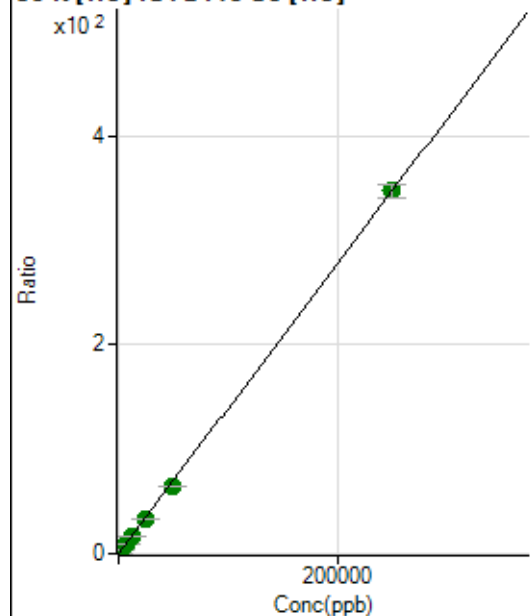
35 Cl [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|--------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 97283.74     | 0.1998   | P   | 0.5 |
| 2 | <input type="checkbox"/> | 500.000   | 458.747    | 404926.60    | 0.8345   | P   | 0.4 |
| 3 | <input type="checkbox"/> | 2500.000  | 2475.357   | 1723586.08   | 3.6246   | A   | 1.5 |
| 4 | <input type="checkbox"/> | 6250.000  | 5990.932   | 3998252.27   | 8.4886   | A   | 0.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 12454.562  | 8086988.28   | 17.4315  | A   | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 23749.195  | 15014759.91  | 33.0585  | A   | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 46813.985  | 30676062.32  | 64.9703  | A   | 0.5 |
| 8 | <input type="checkbox"/> | 250000.00 | 250771.36  | 156091958.78 | 347.1599 | A   | 3.9 |

$$y = 0.0014 * x + 0.1998$$

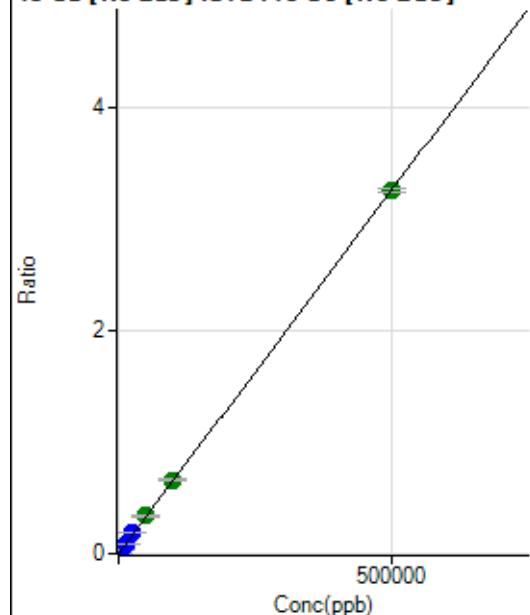
$$R = 0.9999$$

$$DL = 2.093$$

$$BEC = 144.4$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 647.71      | 0.0001 | P   | 12.3 |
| 2 | <input type="checkbox"/> | 500.000   | 500.272    | 20155.90    | 0.0034 | P   | 0.6  |
| 3 | <input type="checkbox"/> | 5000.000  | 5631.339   | 214707.25   | 0.0368 | P   | 1.4  |
| 4 | <input type="checkbox"/> | 12500.000 | 13768.491  | 523087.41   | 0.0898 | P   | 0.2  |
| 5 | <input type="checkbox"/> | 25000.000 | 28675.221  | 1066017.26  | 0.1869 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 50000.000 | 51738.838  | 1906109.01  | 0.3372 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 100000.00 | 101393.37  | 3827275.87  | 0.6606 | A   | 2.5  |
| 8 | <input type="checkbox"/> | 500000.00 | 499325.65  | 18872322.78 | 3.2530 | A   | 1.2  |

$$y = 6.5146\text{E-}006 * x + 1.0859\text{E-}004$$

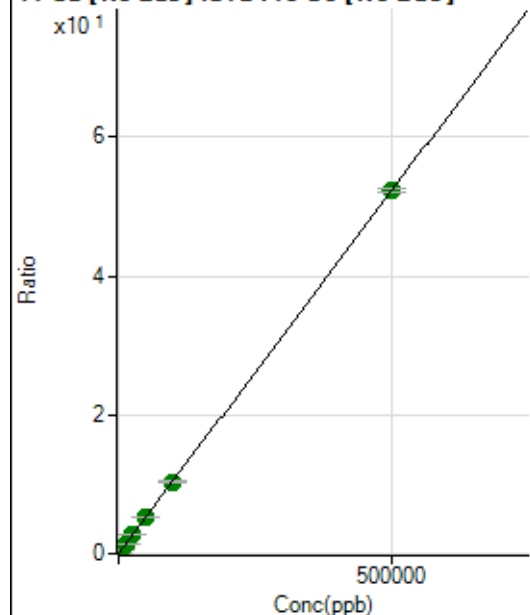
$$R = 1.0000$$

$$DL = 6.162$$

$$BEC = 16.67$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|--------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13654.27     | 0.0023  | P   | 2.4 |
| 2 | <input type="checkbox"/> | 500.000   | 502.636    | 328235.21    | 0.0548  | P   | 1.0 |
| 3 | <input type="checkbox"/> | 5000.000  | 5306.976   | 3251261.90   | 0.5572  | A   | 1.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12930.061  | 7887942.45   | 1.3542  | A   | 0.7 |
| 5 | <input type="checkbox"/> | 25000.000 | 26867.761  | 16035262.22  | 2.8115  | A   | 0.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 50316.909  | 29754914.50  | 5.2633  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 99279.199  | 60149352.35  | 10.3827 | A   | 2.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 500005.25  | 303325230.22 | 52.2815 | A   | 1.0 |

$$y = 1.0456\text{E-}004 * x + 0.0023$$

$$R = 1.0000$$

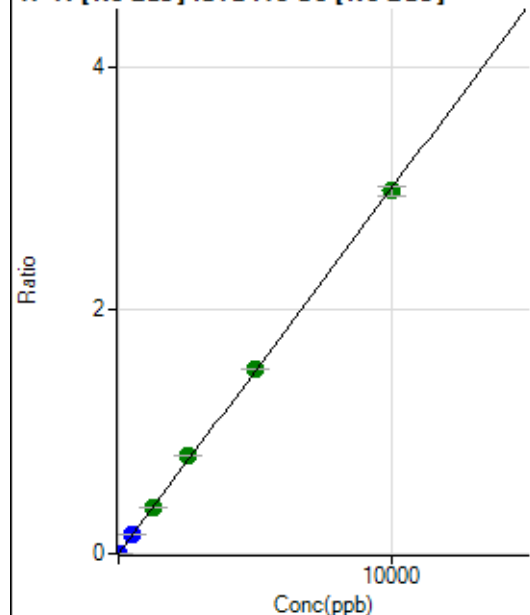
$$DL = 1.544$$

$$BEC = 21.88$$

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      | 156.67      | 0.0000 | P   | 9.0  |
| 2 | <input type="checkbox"/> | 5.000     | 4.784      | 8755.92     | 0.0015 | P   | 2.8  |
| 3 | <input type="checkbox"/> | 500.000   | 533.276    | 934530.84   | 0.1602 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 1250.000  | 1278.691   | 2236730.44  | 0.3840 | A   | 0.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2684.095   | 4597114.48  | 0.8060 | A   | 0.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5033.728   | 8545353.41  | 1.5116 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9931.862   | 17277847.38 | 2.9824 | A   | 2.4  |
| 8 | <input type="checkbox"/> |           |            | 4352.90     | 0.0008 | P   | 13.1 |

$$y = 3.0029\text{E-}004 * x + 2.6238\text{E-}005$$

$$R = 0.9998$$

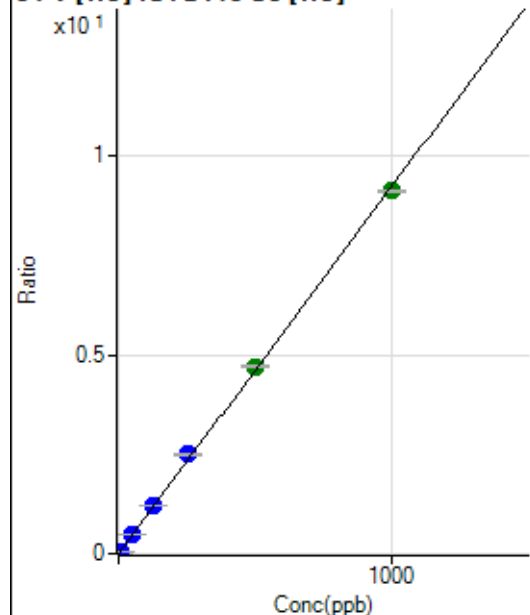
$$DL = 0.02371$$

$$BEC = 0.08738$$

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      | 82.22      | 0.0002 | P   | 25.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.813      | 21656.76   | 0.0446 | P   | 1.0  |
| 3 | <input type="checkbox"/> | 50.000   | 53.015     | 232928.29  | 0.4899 | P   | 2.3  |
| 4 | <input type="checkbox"/> | 125.000  | 130.133    | 566279.01  | 1.2023 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 270.798    | 1160571.99 | 2.5016 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 510.361    | 2141360.47 | 4.7146 | A   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.829    | 4312816.15 | 9.1343 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 1959.03    | 0.0044 | P   | 1.8  |

$$y = 0.0092 * x + 1.6904\text{E-}004$$

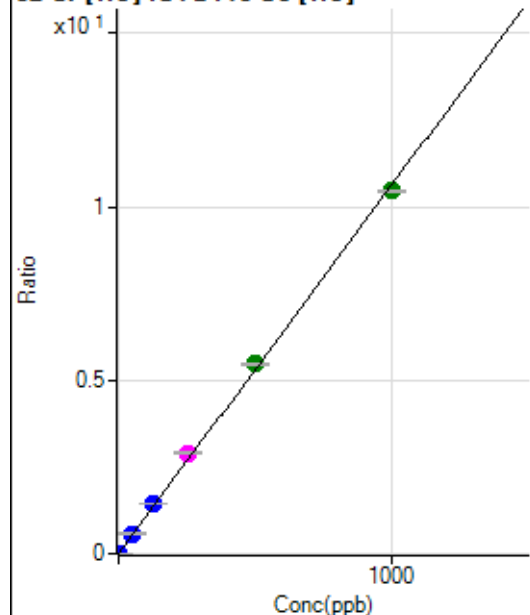
$$R = 0.9997$$

$$DL = 0.01385$$

$$BEC = 0.0183$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 885.59     | 0.0018  | P   | 6.3 |
| 2 | <input type="checkbox"/> | 2.000    | 1.987      | 11118.63   | 0.0229  | P   | 1.9 |
| 3 | <input type="checkbox"/> | 50.000   | 54.375     | 275357.91  | 0.5791  | P   | 2.4 |
| 4 | <input type="checkbox"/> | 125.000  | 133.322    | 667579.43  | 1.4173  | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 273.876    | 1349839.70 | 2.9096  | M   | 1.2 |
| 6 | <input type="checkbox"/> | 500.000  | 515.547    | 2487036.49 | 5.4755  | A   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 984.999    | 4938594.20 | 10.4598 | A   | 0.2 |
| 8 | <input type="checkbox"/> |          |            | 105433.74  | 0.2344  | P   | 2.4 |

$$y = 0.0106 * x + 0.0018$$

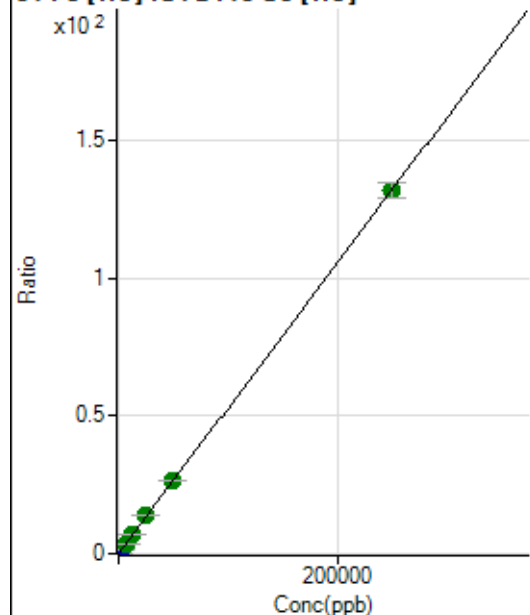
$$R = 0.9995$$

$$DL = 0.03215$$

$$BEC = 0.1713$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2376.88     | 0.0049   | P   | 5.9 |
| 2 | <input type="checkbox"/> | 50.000    | 51.569     | 15563.66    | 0.0321   | P   | 0.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2853.658   | 717813.31   | 1.5096   | P   | 2.1 |
| 4 | <input type="checkbox"/> | 6250.000  | 6642.999   | 1652184.45  | 3.5077   | A   | 0.8 |
| 5 | <input type="checkbox"/> | 12500.000 | 13725.479  | 3359877.21  | 7.2423   | A   | 1.0 |
| 6 | <input type="checkbox"/> | 25000.000 | 25860.978  | 6195813.66  | 13.6413  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 49899.716  | 12425572.59 | 26.3169  | A   | 0.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249859.32  | 59237996.34 | 131.7550 | A   | 4.1 |

$$y = 5.2730E-004 * x + 0.0049$$

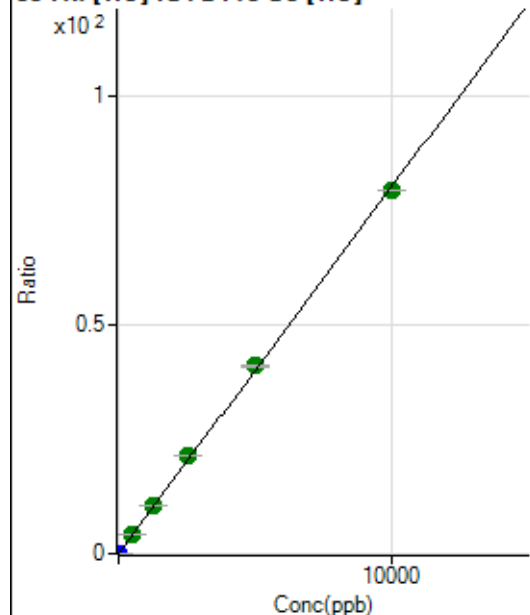
$$R = 1.0000$$

$$DL = 1.646$$

$$BEC = 9.254$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 502.24      | 0.0010  | P   | 1.2 |
| 2 | <input type="checkbox"/> | 1.000     | 0.934      | 4140.61     | 0.0085  | P   | 2.3 |
| 3 | <input type="checkbox"/> | 500.000   | 531.139    | 2027687.07  | 4.2651  | A   | 3.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1286.021   | 4863394.37  | 10.3254 | A   | 0.2 |
| 5 | <input type="checkbox"/> | 2500.000  | 2682.112   | 9989913.25  | 21.5334 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5112.843   | 18643630.00 | 41.0476 | A   | 0.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 9891.991   | 37496075.00 | 79.4152 | A   | 0.1 |
| 8 | <input type="checkbox"/> |           |            | 31756.82    | 0.0706  | P   | 2.9 |

$$y = 0.0080 * x + 0.0010$$

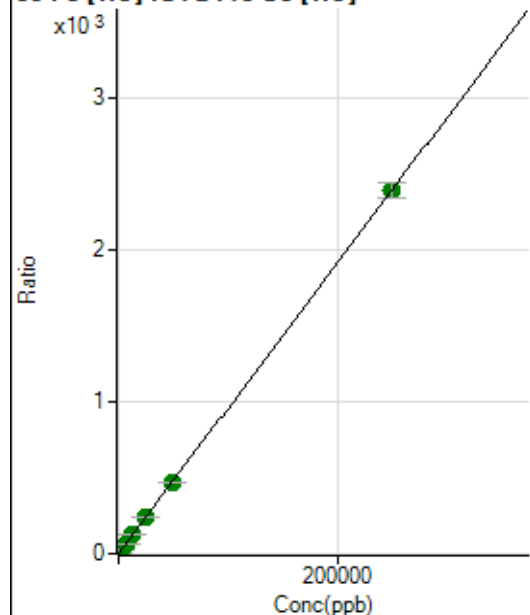
$$R = 0.9997$$

$$DL = 0.004688$$

$$BEC = 0.1285$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio     | Det | RSD |
|---|--------------------------|-----------|------------|--------------|-----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 14322.47     | 0.0294    | P   | 1.1 |
| 2 | <input type="checkbox"/> | 50.000    | 49.913     | 245721.24    | 0.5064    | P   | 0.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2644.267   | 12029241.63  | 25.2978   | A   | 1.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6464.136   | 29108863.18  | 61.8000   | A   | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 13422.513  | 59519054.67  | 128.2935  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 25000.000 | 25607.844  | 111158029.45 | 244.7353  | A   | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 49456.377  | 223150716.68 | 472.6294  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249995.01  | 1074074384.0 | 2,388.955 | A   | 4.1 |

$$y = 0.0096 * x + 0.0294$$

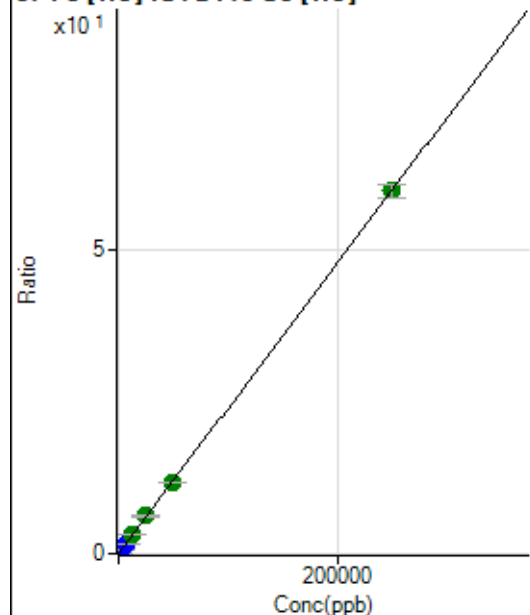
$$R = 1.0000$$

$$DL = 0.1045$$

$$BEC = 3.078$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 924.48      | 0.0019  | P   | 2.4 |
| 2 | <input type="checkbox"/> | 50.000    | 51.701     | 6926.10     | 0.0143  | P   | 2.8 |
| 3 | <input type="checkbox"/> | 2500.000  | 2793.061   | 318793.48   | 0.6705  | P   | 2.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6824.546   | 770349.02   | 1.6355  | P   | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13597.682  | 1510931.02  | 3.2568  | A   | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 25890.452  | 2815813.01  | 6.1994  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 48859.070  | 5523066.59  | 11.6975 | A   | 1.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 250066.96  | 26917609.87 | 59.8613 | A   | 3.4 |

$$y = 2.3937E-004 * x + 0.0019$$

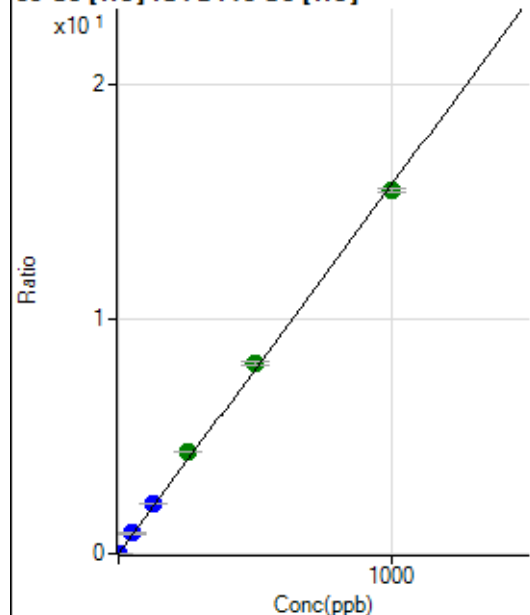
$$R = 1.0000$$

$$DL = 0.5609$$

$$BEC = 7.931$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 350.01     | 0.0007  | P   | 13.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.017      | 8101.14    | 0.0167  | P   | 0.9  |
| 3 | <input type="checkbox"/> | 50.000   | 54.725     | 409329.70  | 0.8608  | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 133.137    | 985929.92  | 2.0932  | P   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 274.861    | 2004470.44 | 4.3207  | A   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 517.139    | 3691662.24 | 8.1285  | A   | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 983.962    | 7302004.27 | 15.4654 | A   | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 23368.25   | 0.0520  | P   | 4.6  |

$$y = 0.0157 * x + 7.1817E-004$$

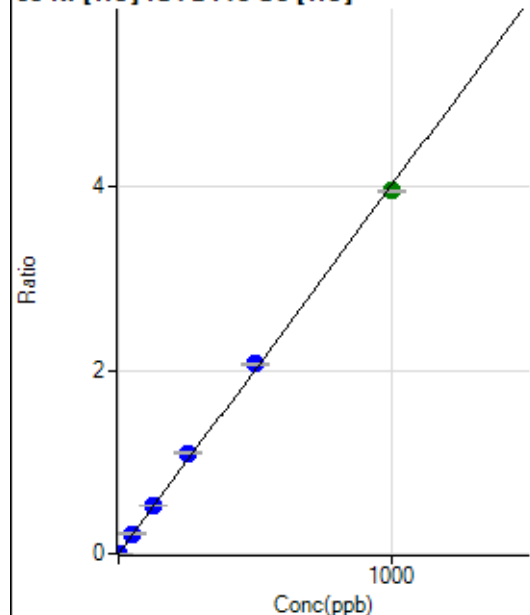
$$R = 0.9994$$

$$DL = 0.01835$$

$$BEC = 0.04569$$

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      | 271.12     | 0.0006 | P   | 4.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.899      | 2020.16    | 0.0042 | P   | 2.5 |
| 3 | <input type="checkbox"/> | 50.000   | 54.269     | 103779.87  | 0.2183 | P   | 1.9 |
| 4 | <input type="checkbox"/> | 125.000  | 132.432    | 250487.92  | 0.5318 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 273.565    | 509372.83  | 1.0980 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 515.391    | 939278.17  | 2.0680 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 985.271    | 1866387.85 | 3.9530 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 27272.62   | 0.0606 | P   | 3.3 |

$$y = 0.0040 * x + 5.5655E-004$$

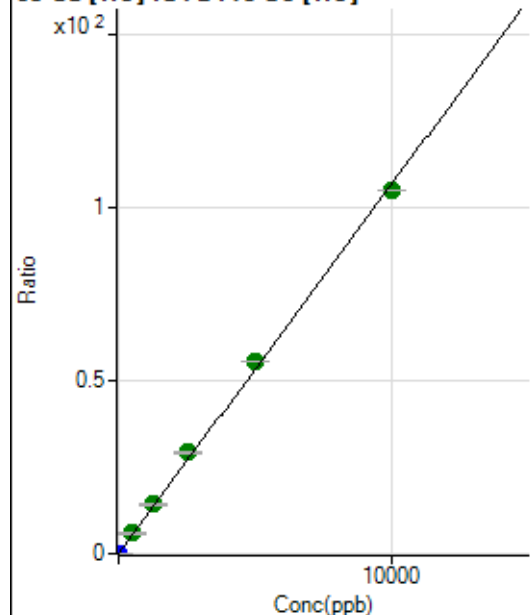
$$R = 0.9995$$

$$DL = 0.01995$$

$$BEC = 0.1387$$

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      | 1184.50     | 0.0024   | P   | 8.1 |
| 2 | <input type="checkbox"/> | 2.000     | 1.996      | 11516.73    | 0.0237   | P   | 3.9 |
| 3 | <input type="checkbox"/> | 500.000   | 550.336    | 2794373.98  | 5.8771   | A   | 2.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1334.227   | 6709564.06  | 14.2448  | A   | 1.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2737.437   | 13557654.94 | 29.2236  | A   | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5204.725   | 25235190.73 | 55.5611  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9825.233   | 49520951.49 | 104.8835 | A   | 0.1 |
| 8 | <input type="checkbox"/> |           |            | 16660.48    | 0.0370   | P   | 1.5 |

$$y = 0.0107 * x + 0.0024$$

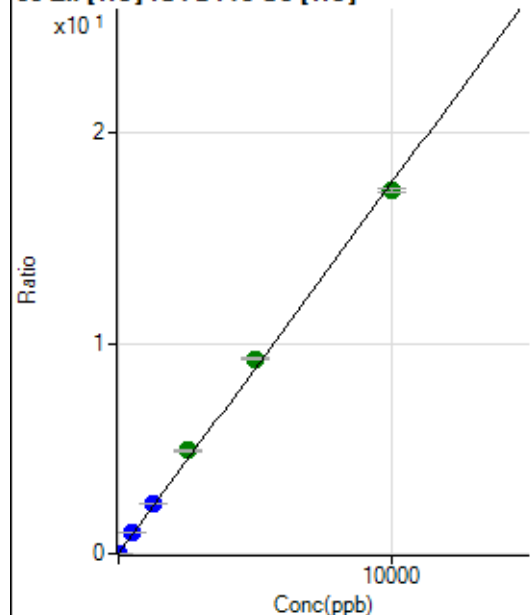
$$R = 0.9994$$

$$DL = 0.05552$$

$$BEC = 0.2278$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1043.38    | 0.0021  | P   | 6.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.154      | 5443.27    | 0.0112  | P   | 2.7 |
| 3 | <input type="checkbox"/> | 500.000   | 558.639    | 468682.90  | 0.9856  | P   | 1.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1365.405   | 1133257.94 | 2.4060  | P   | 0.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2780.798   | 2272244.17 | 4.8978  | A   | 0.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 5244.751   | 4194685.00 | 9.2357  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9790.067   | 8138862.45 | 17.2379 | A   | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 8341.30    | 0.0186  | P   | 5.3 |

$$y = 0.0018 * x + 0.0021$$

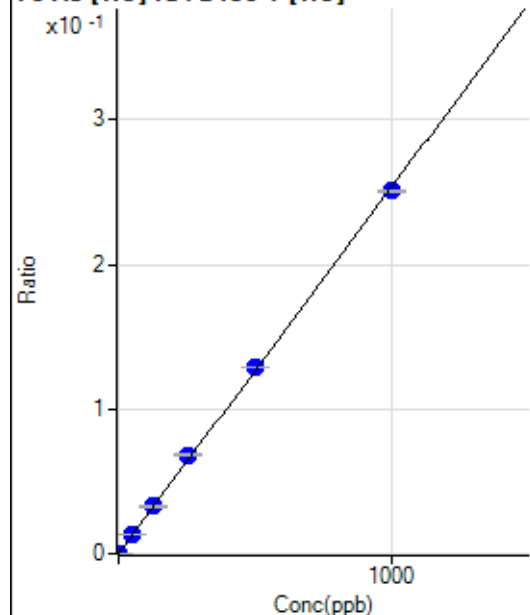
$$R = 0.9991$$

$$DL = 0.2257$$

$$BEC = 1.217$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 15.56     | 0.0000 | P   | 11.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.980      | 544.46    | 0.0003 | P   | 7.3  |
| 3 | <input type="checkbox"/> | 50.000   | 53.168     | 28231.34  | 0.0135 | P   | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 129.830    | 68424.43  | 0.0329 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 269.966    | 140033.84 | 0.0684 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 508.322    | 262456.31 | 0.1289 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.085    | 520883.20 | 0.2510 | P   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 384.45    | 0.0002 | P   | 20.2 |

$$y = 2.5350E-004 * x + 7.2916E-006$$

$$R = 0.9997$$

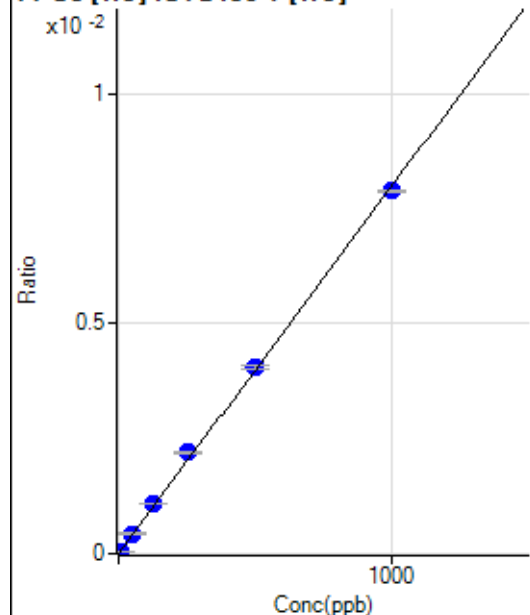
$$DL = 0.01024$$

$$BEC = 0.02876$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00     | 0.0000 | P   |      |
| 2 | <input type="checkbox"/> | 5.000    | 5.746      | 97.78    | 0.0000 | P   | 16.7 |
| 3 | <input type="checkbox"/> | 50.000   | 54.975     | 915.59   | 0.0004 | P   | 18.6 |
| 4 | <input type="checkbox"/> | 125.000  | 137.664    | 2283.53  | 0.0011 | P   | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 275.336    | 4495.17  | 0.0022 | P   | 3.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.723    | 8250.14  | 0.0041 | P   | 2.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.969    | 16361.35 | 0.0079 | P   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 14.45    | 0.0000 | P   | 47.8 |

$$y = 7.9794\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

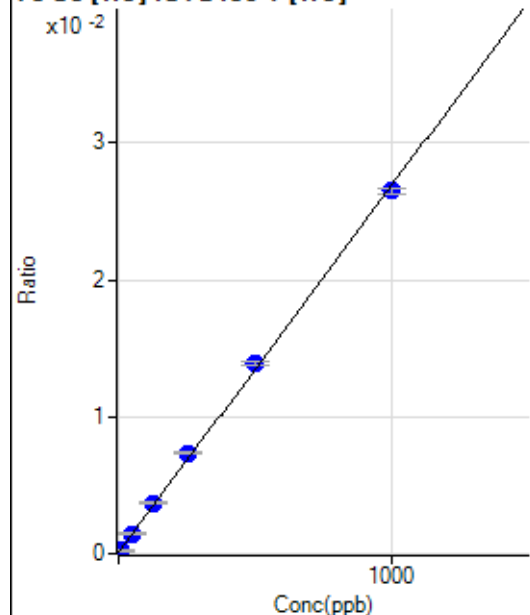
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 180.00   | 0.0001 | P   | 15.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.765      | 452.23   | 0.0002 | P   | 14.9 |
| 3 | <input type="checkbox"/> | 50.000   | 51.721     | 3080.35  | 0.0015 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 134.519    | 7668.72  | 0.0037 | P   | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 271.140    | 15039.96 | 0.0074 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 515.169    | 28288.20 | 0.0139 | P   | 2.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.856    | 55004.98 | 0.0265 | P   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 233.34   | 0.0001 | P   | 12.4 |

$$y = 2.6799\text{E-}005 * x + 8.4457\text{E-}005$$

$$R = 0.9995$$

$$DL = 1.426$$

$$BEC = 3.152$$

Weight: &lt;None&gt;

Min Conc: 0

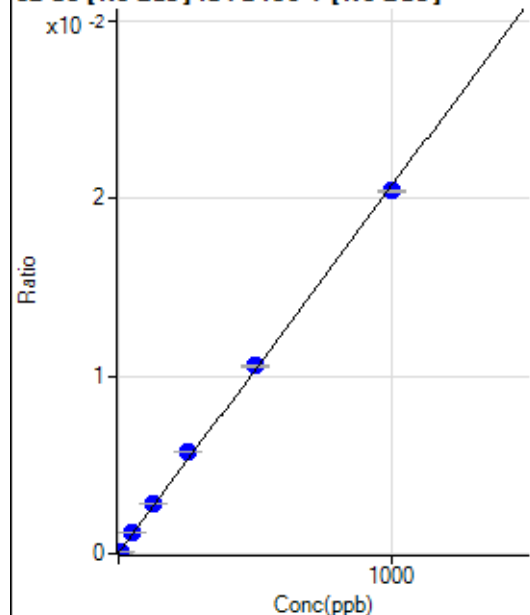
**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 16504.90 |       | P        | 1.3 |
| 2 | <input type="checkbox"/> |       |            | 17039.93 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> |       |            | 16510.44 |       | P        | 1.1 |
| 4 | <input type="checkbox"/> |       |            | 16092.21 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> |       |            | 15914.27 |       | P        | 2.0 |
| 6 | <input type="checkbox"/> |       |            | 16033.25 |       | P        | 2.7 |
| 7 | <input type="checkbox"/> |       |            | 16344.74 |       | P        | 1.4 |
| 8 | <input type="checkbox"/> |       |            | 17587.23 |       | P        | 1.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 147.78 |       | P        | 28.0 |
| 2 | <input type="checkbox"/> |       |            | 173.34 |       | P        | 10.2 |
| 3 | <input type="checkbox"/> |       |            | 91.11  |       | P        | 27.5 |
| 4 | <input type="checkbox"/> |       |            | 67.78  |       | P        | 42.4 |
| 5 | <input type="checkbox"/> |       |            | 74.45  |       | P        | 9.3  |
| 6 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 35.2 |
| 7 | <input type="checkbox"/> |       |            | 70.00  |       | P        | 35.9 |
| 8 | <input type="checkbox"/> |       |            | 106.67 |       | P        | 23.6 |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 301.28    | 0.0000 | P    | 6.2  |
| 2 | <input type="checkbox"/> | 5.000    | 4.778      | 1245.63   | 0.0001 | P    | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 55.205     | 11038.01  | 0.0012 | P    | 3.9  |
| 4 | <input type="checkbox"/> | 125.000  | 133.585    | 26699.20  | 0.0028 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 276.906    | 53550.21  | 0.0058 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 509.752    | 99071.98  | 0.0106 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.065    | 192565.89 | 0.0204 | P    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 411.25    | 0.0000 | P    | 12.3 |

$$y = 2.0670E-005 * x + 3.1895E-005$$

$$R = 0.9995$$

$$DL = 0.2847$$

$$BEC = 1.543$$

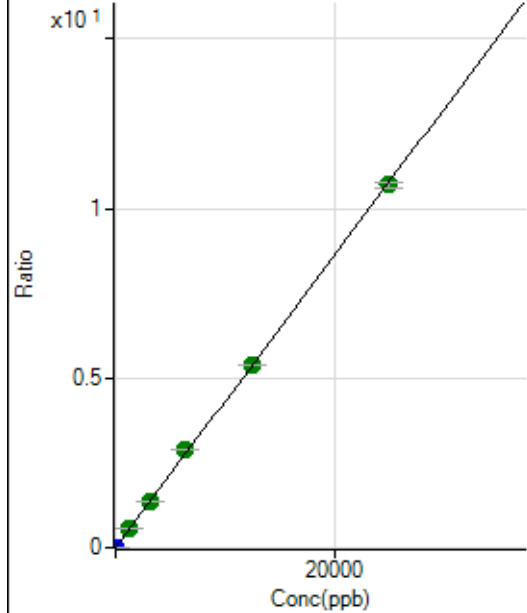
Weight: &lt;None&gt;

Min Conc: 0

83 Kr [No Gas] No available calibration points



|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 196.67 |       | P    | 5.1  |
| 2 | <input type="checkbox"/> |       |            | 187.78 |       | P    | 17.1 |
| 3 | <input type="checkbox"/> |       |            | 188.89 |       | P    | 13.0 |
| 4 | <input type="checkbox"/> |       |            | 163.34 |       | P    | 18.1 |
| 5 | <input type="checkbox"/> |       |            | 170.00 |       | P    | 24.1 |
| 6 | <input type="checkbox"/> |       |            | 225.56 |       | P    | 11.3 |
| 7 | <input type="checkbox"/> |       |            | 220.00 |       | P    | 9.5  |
| 8 | <input type="checkbox"/> |       |            | 223.34 |       | P    | 13.0 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|--------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 620.02       | 0.0001  | P    | 1.9 |
| 2 | <input type="checkbox"/> | 1.000     | 0.878      | 4226.21      | 0.0004  | P    | 1.0 |
| 3 | <input type="checkbox"/> | 1250.000  | 1315.393   | 5327739.85   | 0.5659  | A    | 1.0 |
| 4 | <input type="checkbox"/> | 3125.000  | 3181.738   | 13083677.86  | 1.3687  | A    | 1.1 |
| 5 | <input type="checkbox"/> | 6250.000  | 6749.709   | 27015035.43  | 2.9035  | A    | 0.3 |
| 6 | <input type="checkbox"/> | 12500.000 | 12520.568  | 50489096.47  | 5.3859  | A    | 0.3 |
| 7 | <input type="checkbox"/> | 25000.000 | 24854.427  | 100749884.05 | 10.6914 | A    | 1.3 |
| 8 | <input type="checkbox"/> |           |            | 23328.67     | 0.0026  | P    | 9.4 |

$$y = 4.3016\text{E-}004 * x + 6.5632\text{E-}005$$

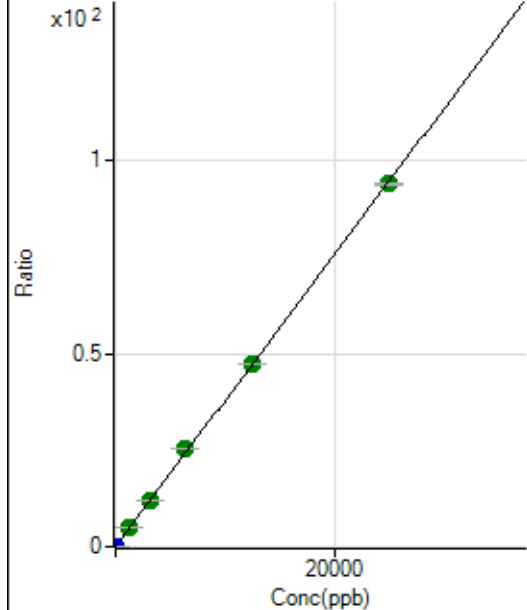
$$R = 0.9998$$

$$DL = 0.00855$$

$$BEC = 0.1526$$

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      | 2392.44      | 0.0003  | P    | 1.8  |
| 2 | <input type="checkbox"/> | 1.000     | 0.911      | 35219.88     | 0.0037  | P    | 1.1  |
| 3 | <input type="checkbox"/> | 1250.000  | 1303.700   | 46352478.76  | 4.9243  | A    | 2.0  |
| 4 | <input type="checkbox"/> | 3125.000  | 3178.789   | 114773874.95 | 12.0066 | A    | 0.9  |
| 5 | <input type="checkbox"/> | 6250.000  | 6712.831   | 235907032.04 | 25.3546 | A    | 0.5  |
| 6 | <input type="checkbox"/> | 12500.000 | 12487.587  | 442153504.52 | 47.1659 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 25000.000 | 24881.090  | 885620004.58 | 93.9762 | A    | 0.7  |
| 8 | <input type="checkbox"/> |           |            | 199718.69    | 0.0219  | P    | 10.2 |

$$y = 0.0038 * x + 2.5322\text{E-}004$$

$$R = 0.9998$$

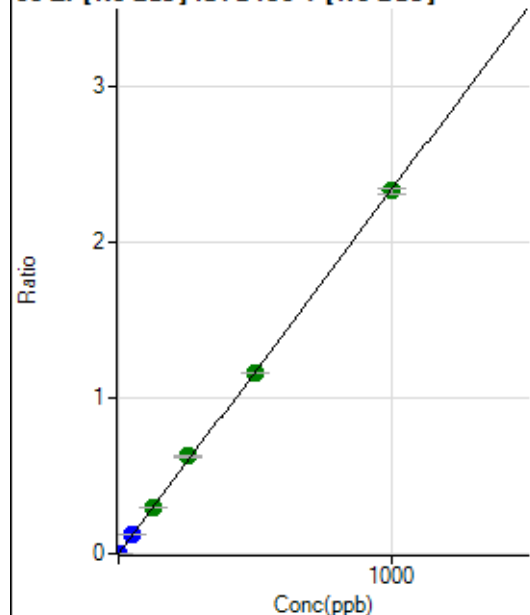
$$DL = 0.003581$$

$$BEC = 0.06704$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 620.02      | 0.0001 | P   | 10.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.914      | 20950.56    | 0.0022 | P   | 1.1  |
| 3 | <input type="checkbox"/> | 50.000   | 52.337     | 1149436.60  | 0.1221 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 128.589    | 2867098.53  | 0.2999 | A   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 266.854    | 5790617.00  | 0.6224 | A   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 496.957    | 10864542.34 | 1.1590 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.743    | 21904311.89 | 2.3244 | A   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 12310.83    | 0.0014 | P   | 5.0  |

$$y = 0.0023 * x + 6.5661E-005$$

$$R = 0.9998$$

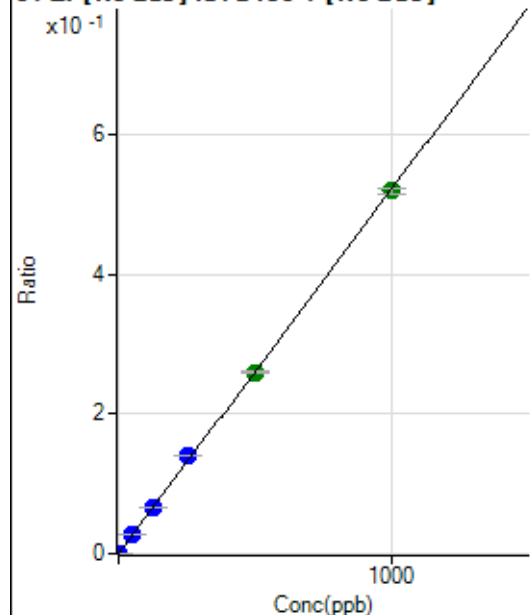
$$DL = 0.008614$$

$$BEC = 0.02816$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 118.89     | 0.0000 | P   | 18.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.904      | 4615.21    | 0.0005 | P   | 1.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.458     | 257741.83  | 0.0274 | P   | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.571    | 636362.63  | 0.0666 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 271.400    | 1317639.22 | 0.1416 | P   | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 497.175    | 2431847.62 | 0.2594 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.618    | 4895274.75 | 0.5195 | A   | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 2743.62    | 0.0003 | P   | 4.4  |

$$y = 5.2175E-004 * x + 1.2584E-005$$

$$R = 0.9997$$

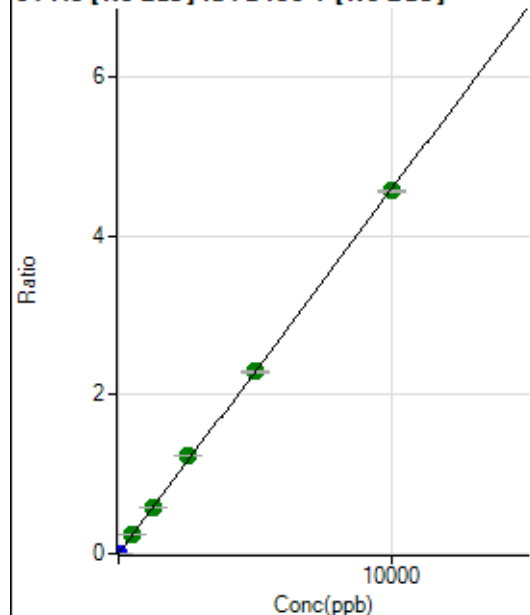
$$DL = 0.01301$$

$$BEC = 0.02412$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 301.12      | 0.0000 | P   | 7.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.579      | 24729.86    | 0.0026 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 500.000   | 528.670    | 2285675.55  | 0.2428 | A   | 2.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1266.386   | 5559562.56  | 0.5816 | A   | 1.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2678.037   | 11443477.47 | 1.2299 | A   | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 4989.830   | 21482606.90 | 2.2916 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 10000.000 | 9957.094   | 43092889.36 | 4.5729 | A   | 0.7 |
| 8 | <input type="checkbox"/> |           |            | 22396.16    | 0.0025 | P   | 5.9 |

$$y = 4.5925\text{E-}004 * x + 3.1883\text{E-}005$$

$$R = 0.9998$$

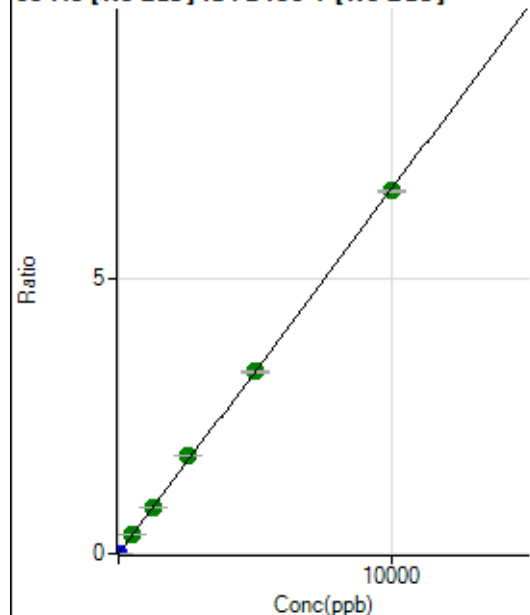
$$DL = 0.01505$$

$$BEC = 0.06942$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 163.34      | 0.0000 | P   | 9.7 |
| 2 | <input type="checkbox"/> | 5.000     | 4.748      | 30205.63    | 0.0032 | P   | 0.8 |
| 3 | <input type="checkbox"/> | 500.000   | 527.518    | 3295597.34  | 0.3501 | A   | 2.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1269.755   | 8055471.76  | 0.8428 | A   | 1.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2692.245   | 16625409.48 | 1.7869 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 4990.149   | 31047762.04 | 3.3120 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9953.019   | 62250924.07 | 6.6058 | A   | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 31341.40    | 0.0034 | P   | 5.5 |

$$y = 6.6370\text{E-}004 * x + 1.7296\text{E-}005$$

$$R = 0.9998$$

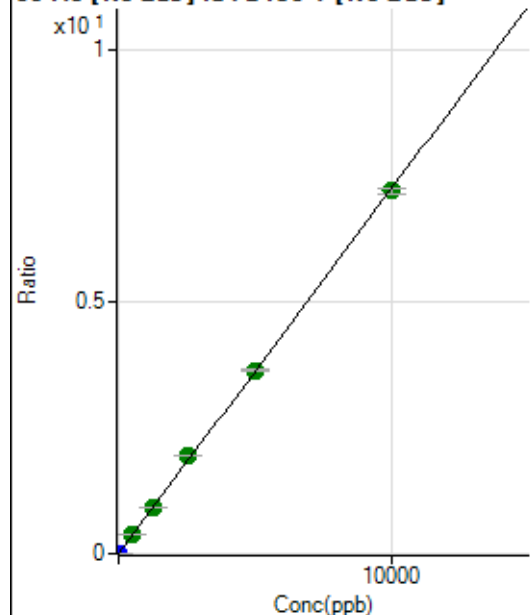
$$DL = 0.007551$$

$$BEC = 0.02606$$

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      | 241.12      | 0.0000 | P   | 5.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.814      | 33551.80    | 0.0035 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 500.000   | 526.880    | 3599764.29  | 0.3824 | A   | 1.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1269.551   | 8807330.01  | 0.9214 | A   | 1.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 2700.819   | 18238267.09 | 1.9602 | A   | 0.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 5016.924   | 34133769.77 | 3.6412 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9937.545   | 67966055.10 | 7.2124 | A   | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 39400.77    | 0.0043 | P   | 5.2 |

$$y = 7.2577\text{E-}004 * x + 2.5528\text{E-}005$$

$$R = 0.9998$$

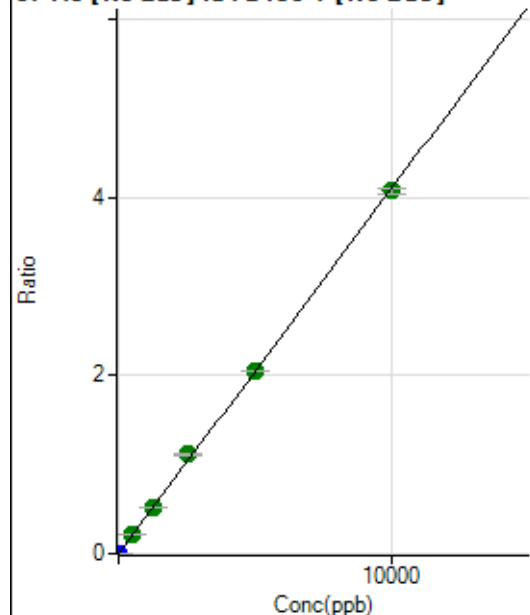
$$DL = 0.005538$$

$$BEC = 0.03517$$

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      | 124.45      | 0.0000 | P   | 14.5 |
| 2 | <input type="checkbox"/> | 5.000     | 4.771      | 18783.28    | 0.0020 | P   | 0.7  |
| 3 | <input type="checkbox"/> | 500.000   | 530.961    | 2050400.20  | 0.2178 | A   | 2.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1266.187   | 4965029.27  | 0.5194 | A   | 1.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2714.986   | 10362733.46 | 1.1138 | A   | 0.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5010.569   | 19268732.63 | 2.0555 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9937.398   | 38415321.37 | 4.0766 | A   | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 19211.62    | 0.0021 | P   | 4.3  |

$$y = 4.1022\text{E-}004 * x + 1.3180\text{E-}005$$

$$R = 0.9997$$

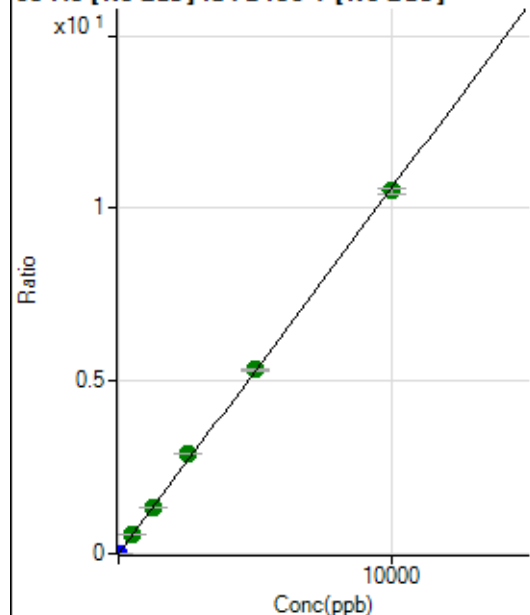
$$DL = 0.01393$$

$$BEC = 0.03213$$

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      | 321.12      | 0.0000  | P   | 13.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.803      | 48759.97    | 0.0051  | P   | 1.2  |
| 3 | <input type="checkbox"/> | 500.000   | 525.167    | 5230153.36  | 0.5556  | A   | 1.8  |
| 4 | <input type="checkbox"/> | 1250.000  | 1271.303   | 12856493.28 | 1.3450  | A   | 0.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2719.495   | 26768936.27 | 2.8771  | A   | 0.3  |
| 6 | <input type="checkbox"/> | 5000.000  | 5027.892   | 49864419.81 | 5.3192  | A   | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9927.259   | 98968724.08 | 10.5024 | A   | 1.3  |
| 8 | <input type="checkbox"/> |           |            | 49369.86    | 0.0054  | P   | 5.1  |

$$y = 0.0011 * x + 3.3967E-005$$

$$R = 0.9997$$

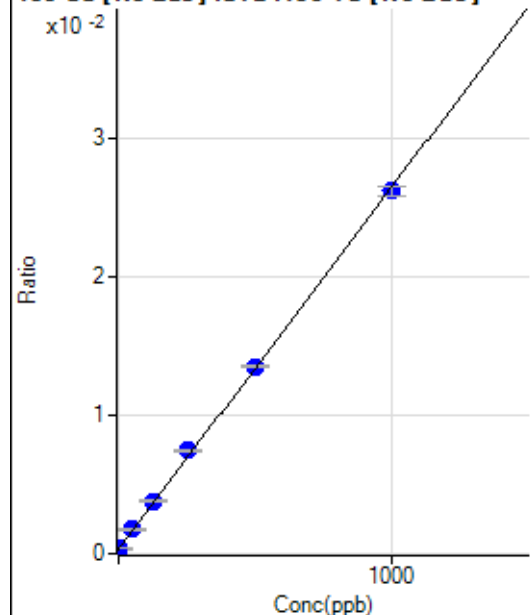
$$DL = 0.01268$$

$$BEC = 0.03211$$

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      | 4339.58   | 0.0003 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.063      | 4781.94   | 0.0004 | P   | 0.8 |
| 3 | <input type="checkbox"/> | 50.000   | 54.425     | 23068.41  | 0.0017 | P   | 3.5 |
| 4 | <input type="checkbox"/> | 125.000  | 133.334    | 50789.55  | 0.0038 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 272.473    | 98812.90  | 0.0074 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 504.692    | 180202.06 | 0.0135 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 990.773    | 347088.79 | 0.0262 | P   | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 4294.01   | 0.0003 | P   | 3.5 |

$$y = 2.6069E-005 * x + 3.3042E-004$$

$$R = 0.9997$$

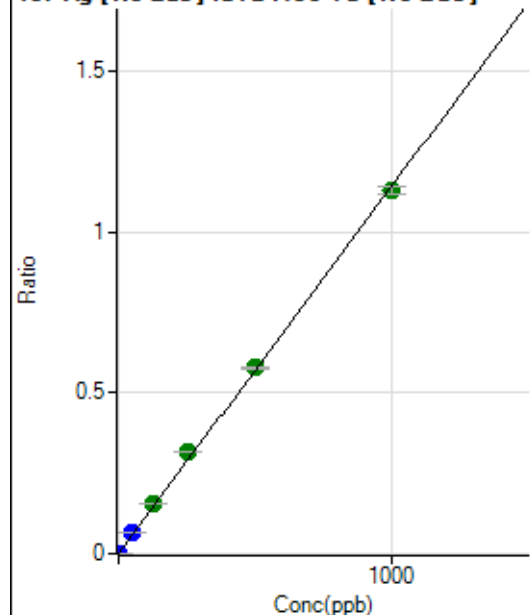
$$DL = 0.3541$$

$$BEC = 12.68$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 88.89       | 0.0000 | P   | 8.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.977      | 14973.40    | 0.0011 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 50.000   | 55.982     | 841970.39   | 0.0638 | P   | 3.5 |
| 4 | <input type="checkbox"/> | 125.000  | 135.515    | 2062154.99  | 0.1545 | A   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 279.380    | 4235213.44  | 0.3186 | A   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 505.549    | 7703074.74  | 0.5765 | A   | 0.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 988.267    | 14953987.83 | 1.1270 | A   | 2.1 |
| 8 | <input type="checkbox"/> |          |            | 3842.77     | 0.0003 | P   | 8.6 |

$$y = 0.0011 * x + 6.7686E-006$$

$$R = 0.9995$$

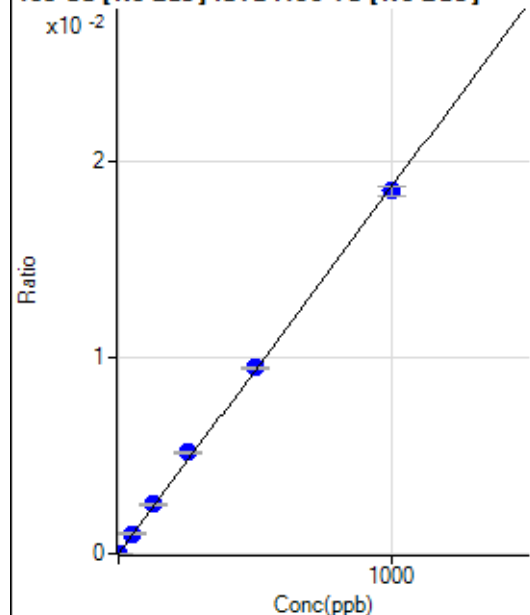
$$DL = 0.001571$$

$$BEC = 0.005936$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18.89     | 0.0000 | P   | 26.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.993      | 266.67    | 0.0000 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 54.894     | 13525.30  | 0.0010 | P   | 4.1  |
| 4 | <input type="checkbox"/> | 125.000  | 133.616    | 33288.19  | 0.0025 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 275.719    | 68407.88  | 0.0051 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 506.470    | 126291.32 | 0.0095 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 989.014    | 244888.63 | 0.0185 | P   | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 171.11    | 0.0000 | P   | 9.7  |

$$y = 1.8660E-005 * x + 1.4369E-006$$

$$R = 0.9996$$

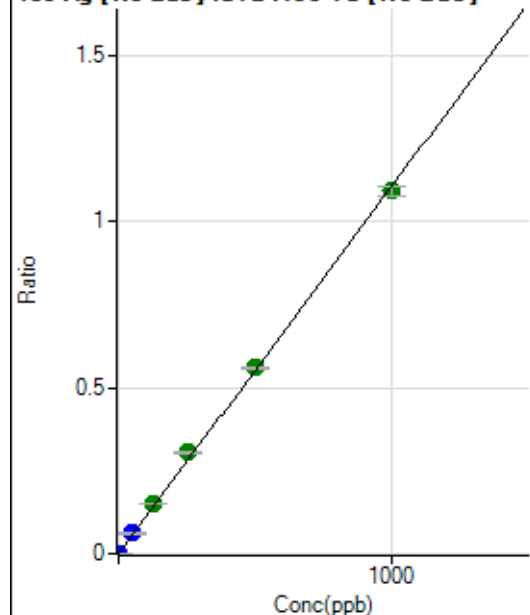
$$DL = 0.06146$$

$$BEC = 0.077$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 26.67       | 0.0000 | P   | 21.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.973      | 14376.11    | 0.0011 | P   | 1.5  |
| 3 | <input type="checkbox"/> | 50.000   | 55.698     | 811118.15   | 0.0615 | P   | 2.9  |
| 4 | <input type="checkbox"/> | 125.000  | 135.513    | 1996468.08  | 0.1496 | A   | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 276.466    | 4057308.55  | 0.3052 | A   | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 506.456    | 7471463.84  | 0.5592 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.556    | 14482221.31 | 1.0914 | A   | 2.3  |
| 8 | <input type="checkbox"/> |          |            | 3636.05     | 0.0003 | P   | 10.6 |

$$y = 0.0011 * x + 2.0289E-006$$

$$R = 0.9996$$

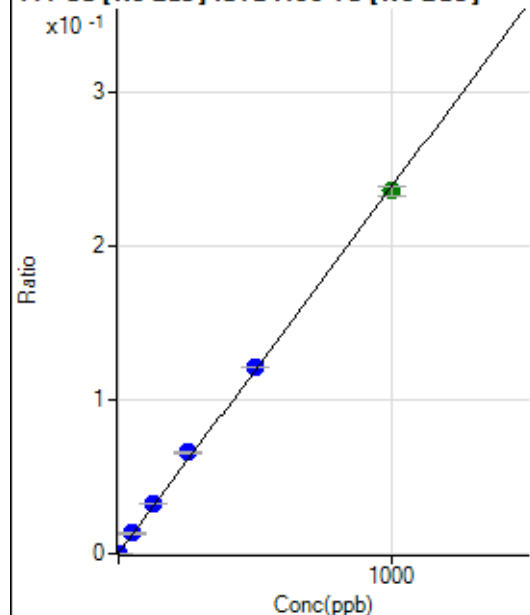
$$DL = 0.001169$$

$$BEC = 0.001838$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3132.27    | 0.0002 | P   | 1.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.018      | 6423.31    | 0.0005 | P   | 2.8 |
| 3 | <input type="checkbox"/> | 50.000   | 55.140     | 176396.39  | 0.0134 | P   | 3.9 |
| 4 | <input type="checkbox"/> | 125.000  | 133.580    | 427890.40  | 0.0321 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 275.561    | 875943.49  | 0.0659 | P   | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 506.796    | 1616656.47 | 0.1210 | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 988.882    | 3129577.32 | 0.2359 | A   | 2.4 |
| 8 | <input type="checkbox"/> |          |            | 3718.29    | 0.0003 | P   | 4.8 |

$$y = 2.3827E-004 * x + 2.3850E-004$$

$$R = 0.9996$$

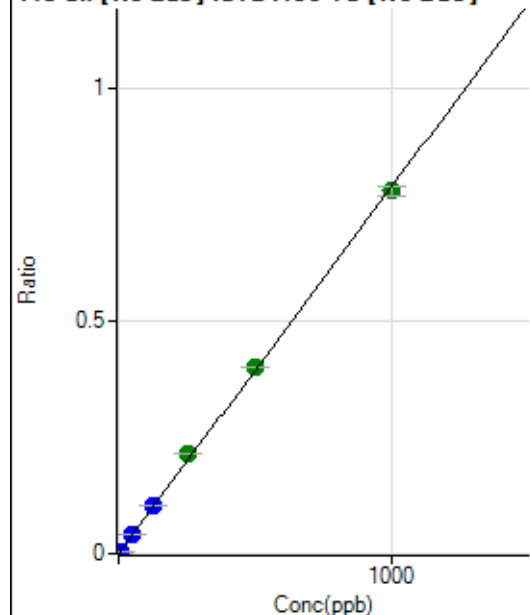
$$DL = 0.03661$$

$$BEC = 1.001$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1902.37     | 0.0001 | P   | 3.6 |
| 2 | <input type="checkbox"/> | 5.000    | 4.799      | 52345.73    | 0.0039 | P   | 0.5 |
| 3 | <input type="checkbox"/> | 50.000   | 53.638     | 558416.34   | 0.0423 | P   | 3.7 |
| 4 | <input type="checkbox"/> | 125.000  | 130.275    | 1369639.08  | 0.1026 | P   | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 273.018    | 2857343.01  | 0.2150 | A   | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 508.403    | 5346661.80  | 0.4001 | A   | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.204    | 10328811.45 | 0.7784 | A   | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 12590.04    | 0.0010 | P   | 2.4 |

$$y = 7.8678\text{E-}004 * x + 1.4485\text{E-}004$$

$$R = 0.9996$$

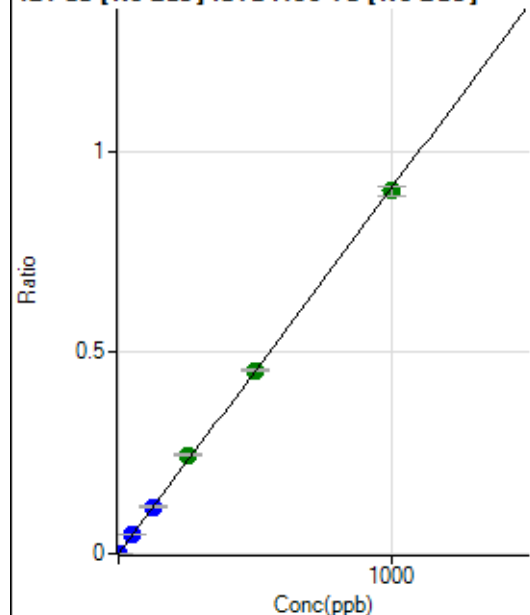
$$DL = 0.01999$$

$$BEC = 0.1841$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 232.22      | 0.0000 | P   | 17.1 |
| 2 | <input type="checkbox"/> | 2.000    | 1.909      | 23403.57    | 0.0018 | P   | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 52.913     | 634319.76   | 0.0481 | P   | 3.9  |
| 4 | <input type="checkbox"/> | 125.000  | 128.710    | 1561082.46  | 0.1170 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 270.640    | 3269778.04  | 0.2460 | A   | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 502.546    | 6102742.34  | 0.4567 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.958    | 11973753.02 | 0.9024 | A   | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 8838.34     | 0.0007 | P   | 3.9  |

$$y = 9.0880\text{E-}004 * x + 1.7681\text{E-}005$$

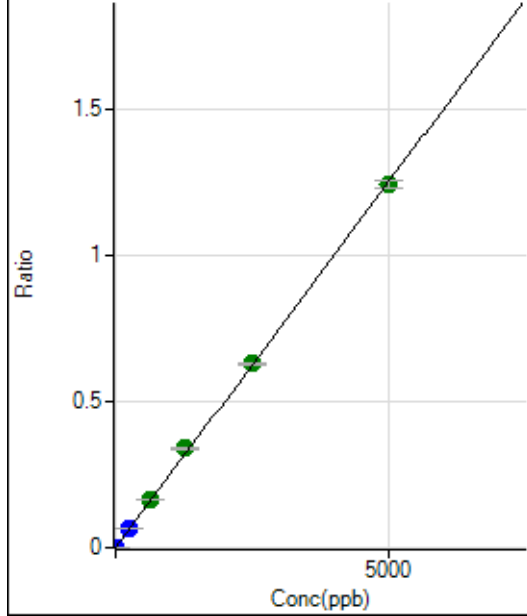
$$R = 0.9998$$

$$DL = 0.009964$$

$$BEC = 0.01946$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 388.90      | 0.0000 | P   | 9.2 |
| 2 | <input type="checkbox"/> | 10.000   | 9.200      | 31177.48    | 0.0023 | P   | 0.9 |
| 3 | <input type="checkbox"/> | 250.000  | 256.980    | 849622.77   | 0.0644 | P   | 3.6 |
| 4 | <input type="checkbox"/> | 625.000  | 648.711    | 2169577.77  | 0.1626 | A   | 1.3 |
| 5 | <input type="checkbox"/> | 1250.000 | 1354.951   | 4513867.02  | 0.3396 | A   | 1.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2515.874   | 8424573.21  | 0.6305 | A   | 0.7 |
| 7 | <input type="checkbox"/> | 5000.000 | 4962.514   | 16501405.03 | 1.2436 | A   | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 7913.38     | 0.0006 | P   | 5.3 |

$$y = 2.5059\text{E-}004 * x + 2.9610\text{E-}005$$

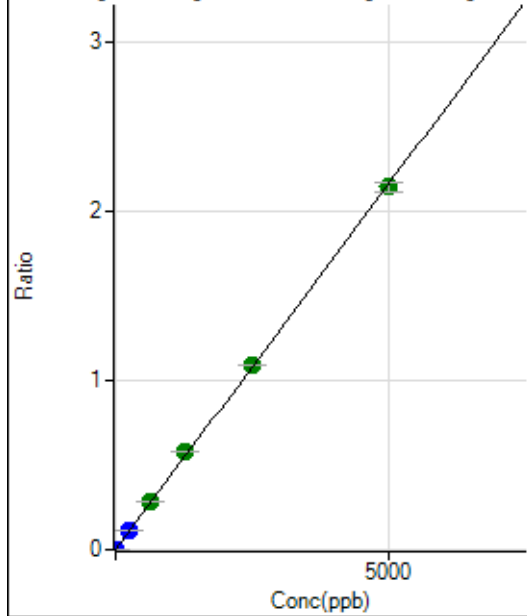
$$R = 0.9997$$

$$DL = 0.03247$$

$$BEC = 0.1182$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 633.35      | 0.0000 | P   | 4.5 |
| 2 | <input type="checkbox"/> | 10.000   | 9.347      | 54463.74    | 0.0041 | P   | 1.0 |
| 3 | <input type="checkbox"/> | 250.000  | 259.030    | 1473884.39  | 0.1118 | P   | 3.2 |
| 4 | <input type="checkbox"/> | 625.000  | 650.260    | 3742510.53  | 0.2805 | A   | 0.6 |
| 5 | <input type="checkbox"/> | 1250.000 | 1343.986   | 7704763.70  | 0.5796 | A   | 1.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2518.277   | 14511271.73 | 1.0860 | A   | 0.2 |
| 7 | <input type="checkbox"/> | 5000.000 | 4963.758   | 28404040.97 | 2.1406 | A   | 2.3 |
| 8 | <input type="checkbox"/> |          |            | 13814.56    | 0.0011 | P   | 4.5 |

$$y = 4.3124\text{E-}004 * x + 4.8231\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.01512$$

$$BEC = 0.1118$$

Weight: &lt;None&gt;

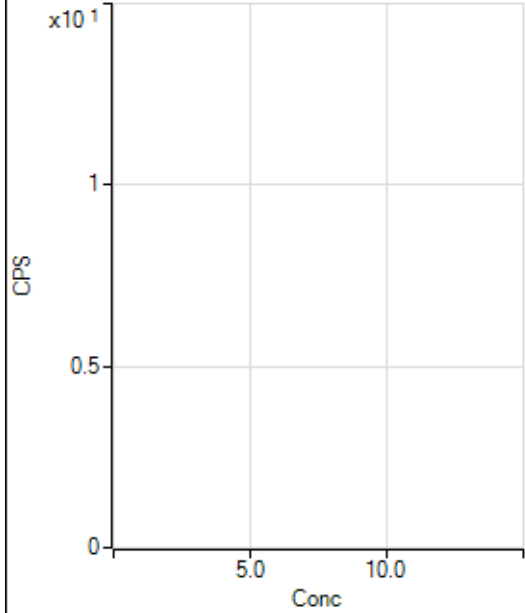
Min Conc: 0

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

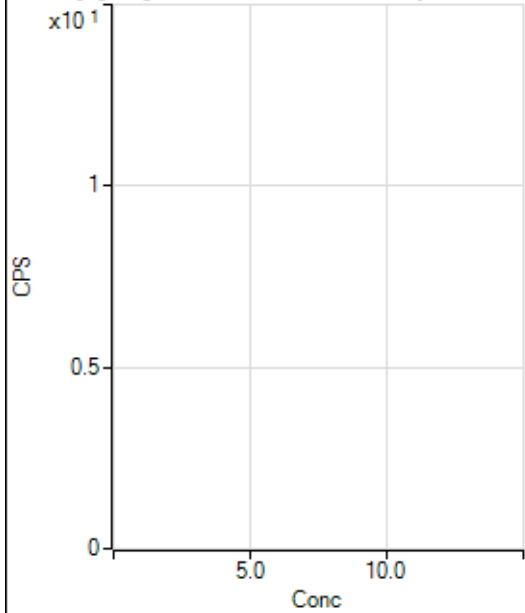
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 12.22   |       | P        | 78.7 |
| 2 | <input type="checkbox"/> |       |            | 15.55   |       | P        | 24.8 |
| 3 | <input type="checkbox"/> |       |            | 95.56   |       | P        | 19.2 |
| 4 | <input type="checkbox"/> |       |            | 215.56  |       | P        | 13.0 |
| 5 | <input type="checkbox"/> |       |            | 447.79  |       | P        | 7.8  |
| 6 | <input type="checkbox"/> |       |            | 816.70  |       | P        | 5.5  |
| 7 | <input type="checkbox"/> |       |            | 1689.01 |       | P        | 5.2  |
| 8 | <input type="checkbox"/> |       |            | 340.01  |       | P        | 6.9  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 20.4 |
| 4 | <input type="checkbox"/> |       |            | 42.22  |       | P        | 38.9 |
| 5 | <input type="checkbox"/> |       |            | 85.56  |       | P        | 2.3  |
| 6 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 27.8 |
| 7 | <input type="checkbox"/> |       |            | 280.01 |       | P        | 4.3  |
| 8 | <input type="checkbox"/> |       |            | 158.89 |       | P        | 7.9  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 7.78   |       | P        | 24.7 |
| 3 | <input type="checkbox"/> |       |            | 35.55  |       | P        | 19.5 |
| 4 | <input type="checkbox"/> |       |            | 54.45  |       | P        | 12.7 |
| 5 | <input type="checkbox"/> |       |            | 116.67 |       | P        | 5.7  |
| 6 | <input type="checkbox"/> |       |            | 183.34 |       | P        | 0.0  |
| 7 | <input type="checkbox"/> |       |            | 345.56 |       | P        | 18.2 |
| 8 | <input type="checkbox"/> |       |            | 494.46 |       | P        | 5.1  |

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

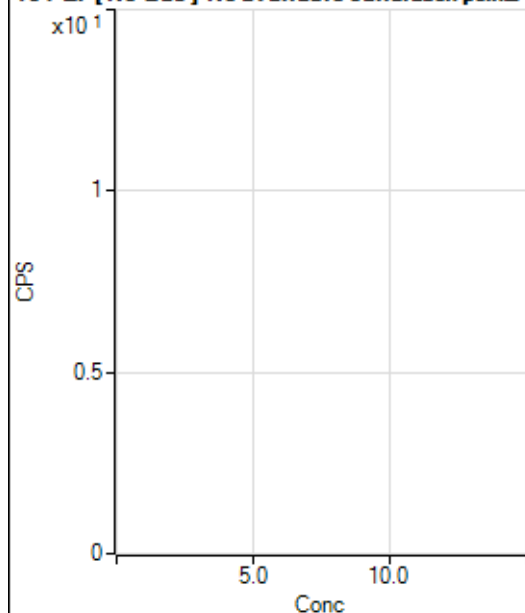
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.45   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 12.22  |       | P        | 68.7 |
| 3 | <input type="checkbox"/> |       |            | 51.11  |       | P        | 7.5  |
| 4 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 14.3 |
| 5 | <input type="checkbox"/> |       |            | 181.12 |       | P        | 14.8 |
| 6 | <input type="checkbox"/> |       |            | 356.68 |       | P        | 8.9  |
| 7 | <input type="checkbox"/> |       |            | 713.36 |       | P        | 2.0  |
| 8 | <input type="checkbox"/> |       |            | 343.34 |       | P        | 1.0  |

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

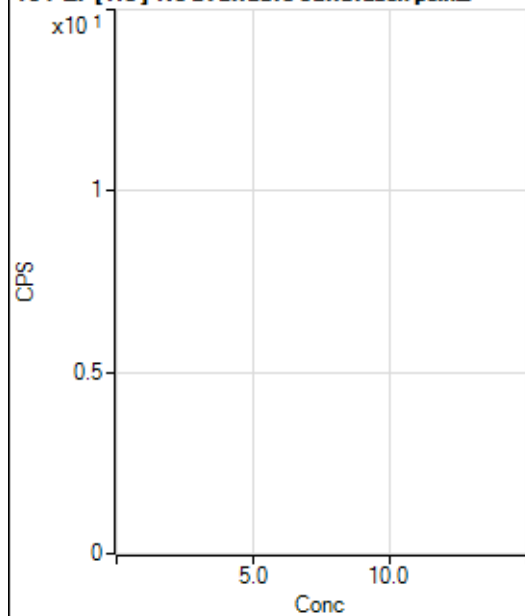
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 81.11  |       | P        | 22.6 |
| 2 | <input type="checkbox"/> |       |            | 70.00  |       | P        | 16.5 |
| 3 | <input type="checkbox"/> |       |            | 80.00  |       | P        | 14.4 |
| 4 | <input type="checkbox"/> |       |            | 103.34 |       | P        | 29.0 |
| 5 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 10.8 |
| 6 | <input type="checkbox"/> |       |            | 125.56 |       | P        | 6.7  |
| 7 | <input type="checkbox"/> |       |            | 215.56 |       | P        | 19.6 |
| 8 | <input type="checkbox"/> |       |            | 462.24 |       | P        | 11.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 415.57 |       | P        | 1.7  |
| 2 | <input type="checkbox"/> |       |            | 423.35 |       | P        | 3.6  |
| 3 | <input type="checkbox"/> |       |            | 473.35 |       | P        | 9.9  |
| 4 | <input type="checkbox"/> |       |            | 421.12 |       | P        | 11.2 |
| 5 | <input type="checkbox"/> |       |            | 494.46 |       | P        | 7.8  |
| 6 | <input type="checkbox"/> |       |            | 480.01 |       | P        | 11.6 |
| 7 | <input type="checkbox"/> |       |            | 501.13 |       | P        | 3.1  |
| 8 | <input type="checkbox"/> |       |            | 643.35 |       | P        | 4.5  |

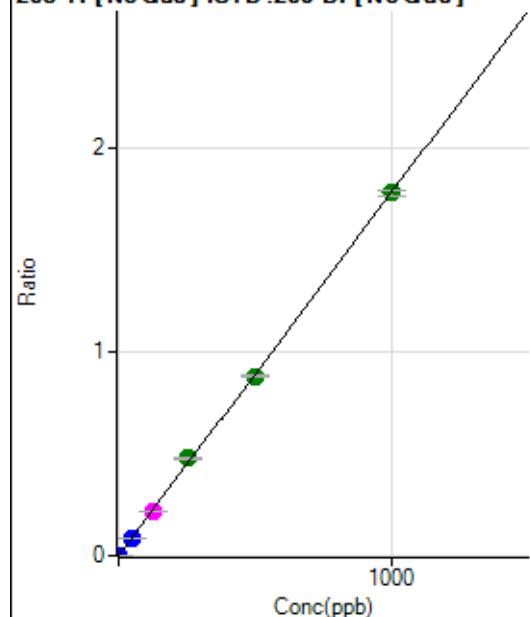
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 90.00  |       | P        | 23.1 |
| 2 | <input type="checkbox"/> |       |            | 102.22 |       | P        | 8.2  |
| 3 | <input type="checkbox"/> |       |            | 94.44  |       | P        | 22.7 |
| 4 | <input type="checkbox"/> |       |            | 108.89 |       | P        | 20.4 |
| 5 | <input type="checkbox"/> |       |            | 101.11 |       | P        | 18.7 |
| 6 | <input type="checkbox"/> |       |            | 140.00 |       | P        | 12.4 |
| 7 | <input type="checkbox"/> |       |            | 192.23 |       | P        | 5.3  |
| 8 | <input type="checkbox"/> |       |            | 535.57 |       | P        | 8.1  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 7.4  |
| 2 | <input type="checkbox"/> |       |            | 51.11  |       | P        | 22.9 |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 33.0 |
| 4 | <input type="checkbox"/> |       |            | 73.33  |       | P        | 36.1 |
| 5 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 26.5 |
| 6 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 9.1  |
| 7 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 14.2 |
| 8 | <input type="checkbox"/> |       |            | 284.45 |       | P        | 4.7  |

203 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      | 568.91      | 0.0001 | P   | 13.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.824      | 12534.75    | 0.0015 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 48.224     | 691882.05   | 0.0860 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 121.805    | 1776790.68  | 0.2171 | M   | 3.7  |
| 5 | <input type="checkbox"/> | 250.000  | 268.557    | 3831195.98  | 0.4786 | A   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 494.245    | 7083936.01  | 0.8808 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.726    | 13688901.05 | 1.7797 | A   | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 4508.57     | 0.0007 | P   | 6.3  |

$$y = 0.0018 * x + 7.0051E-005$$

$$R = 0.9998$$

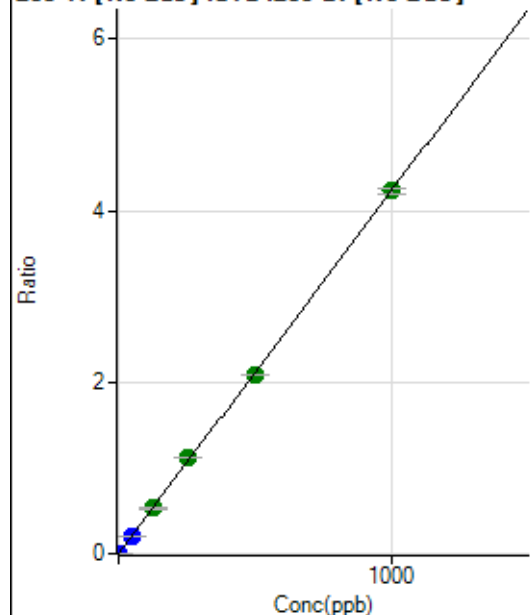
$$DL = 0.01611$$

$$BEC = 0.03931$$

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      | 1285.63     | 0.0002 | P   | 2.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.845      | 30431.85    | 0.0037 | P   | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 47.655     | 1622884.54  | 0.2017 | P   | 2.4 |
| 4 | <input type="checkbox"/> | 125.000  | 124.744    | 4318343.48  | 0.5278 | A   | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 265.617    | 8995827.64  | 1.1237 | A   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 493.096    | 16778745.17 | 2.0860 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 999.697    | 32527515.90 | 4.2290 | A   | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 10724.31    | 0.0016 | P   | 6.0 |

$$y = 0.0042 * x + 1.5817E-004$$

$$R = 0.9998$$

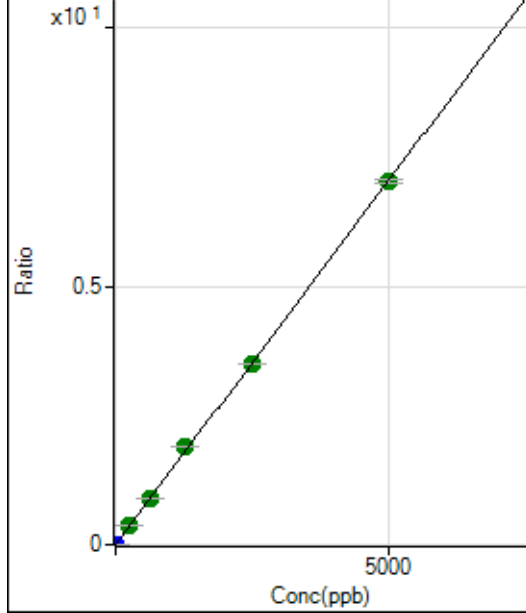
$$DL = 0.003256$$

$$BEC = 0.03739$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1526.77     | 0.0002 | P   | 5.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.141      | 14631.31    | 0.0018 | P   | 2.4 |
| 3 | <input type="checkbox"/> | 250.000  | 256.499    | 2906906.24  | 0.3613 | A   | 2.1 |
| 4 | <input type="checkbox"/> | 625.000  | 624.236    | 7192277.60  | 0.8791 | A   | 0.8 |
| 5 | <input type="checkbox"/> | 1250.000 | 1343.614   | 15145555.33 | 1.8920 | A   | 0.8 |
| 6 | <input type="checkbox"/> | 2500.000 | 2482.524   | 28115729.86 | 3.4956 | A   | 0.9 |
| 7 | <input type="checkbox"/> | 5000.000 | 4985.105   | 53991737.53 | 7.0193 | A   | 1.1 |
| 8 | <input type="checkbox"/> |          |            | 32601.40    | 0.0049 | P   | 4.0 |

$$y = 0.0014 * x + 1.8789E-004$$

$$R = 0.9998$$

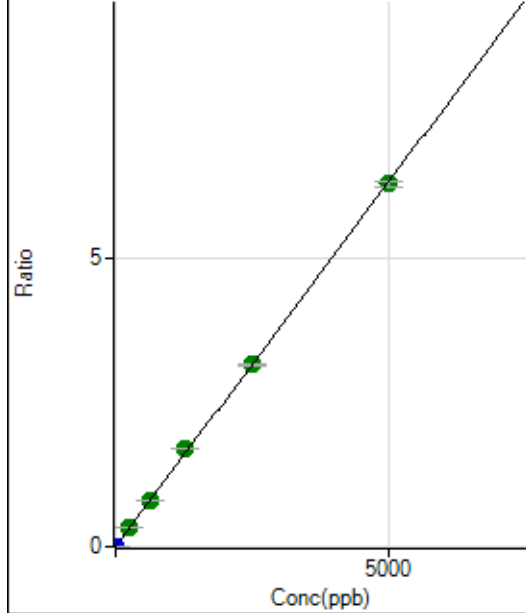
$$DL = 0.0232$$

$$BEC = 0.1334$$

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      | 1252.29     | 0.0002 | P   | 12.3 |
| 2 | <input type="checkbox"/> | 1.000    | 1.105      | 12629.29    | 0.0015 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 250.000  | 260.000    | 2642008.78  | 0.3283 | A   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 631.443    | 6522678.51  | 0.7972 | A   | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1343.509   | 13576402.44 | 1.6960 | A   | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2499.000   | 25372225.18 | 3.1546 | A   | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4975.817   | 48309856.50 | 6.2810 | A   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 28866.27    | 0.0043 | P   | 4.0  |

$$y = 0.0013 * x + 1.5396E-004$$

$$R = 0.9998$$

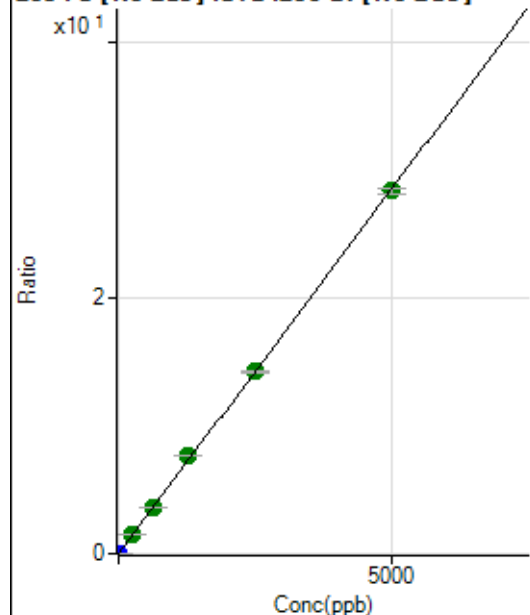
$$DL = 0.04494$$

$$BEC = 0.122$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS          | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|--------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5962.80      | 0.0007  | P   | 3.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.113      | 57669.09     | 0.0071  | P   | 1.3 |
| 3 | <input type="checkbox"/> | 250.000  | 257.474    | 11803283.40  | 1.4671  | A   | 1.5 |
| 4 | <input type="checkbox"/> | 625.000  | 626.683    | 29205987.69  | 3.5697  | A   | 0.3 |
| 5 | <input type="checkbox"/> | 1250.000 | 1341.011   | 61140835.89  | 7.6379  | A   | 0.8 |
| 6 | <input type="checkbox"/> | 2500.000 | 2498.034   | 114433126.91 | 14.2272 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 4977.646   | 218041074.53 | 28.3487 | A   | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 130460.68    | 0.0196  | P   | 3.4 |

$$y = 0.0057 * x + 7.3362E-004$$

$$R = 0.9998$$

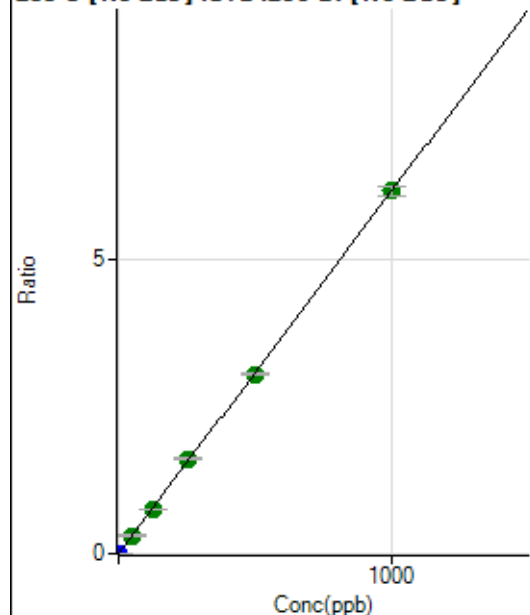
$$DL = 0.0149$$

$$BEC = 0.1288$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 23.33       | 0.0000 | P   | 56.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.803      | 40301.82    | 0.0049 | P   | 1.3  |
| 3 | <input type="checkbox"/> | 50.000   | 50.301     | 2490759.35  | 0.3096 | A   | 2.8  |
| 4 | <input type="checkbox"/> | 125.000  | 122.271    | 6157591.71  | 0.7527 | A   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 261.464    | 12883961.89 | 1.6095 | A   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 493.837    | 24450592.41 | 3.0399 | A   | 0.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.542   | 47369002.63 | 6.1591 | A   | 2.5  |
| 8 | <input type="checkbox"/> |          |            | 9301.13     | 0.0014 | P   | 8.8  |

$$y = 0.0062 * x + 2.8719E-006$$

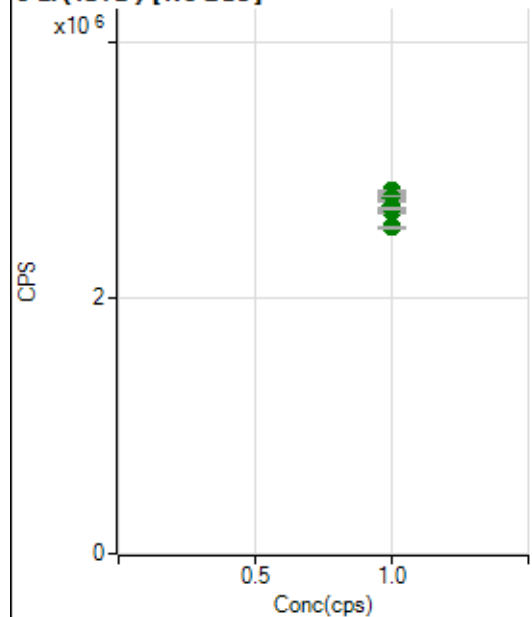
$$R = 0.9999$$

$$DL = 0.0007949$$

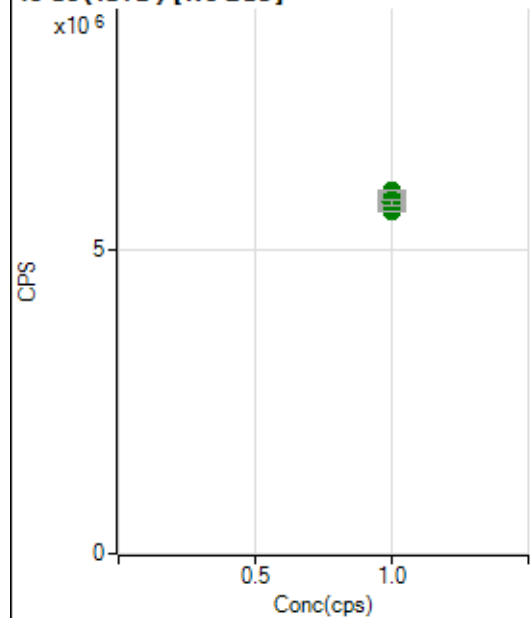
$$BEC = 0.0004665$$

Weight: &lt;None&gt;

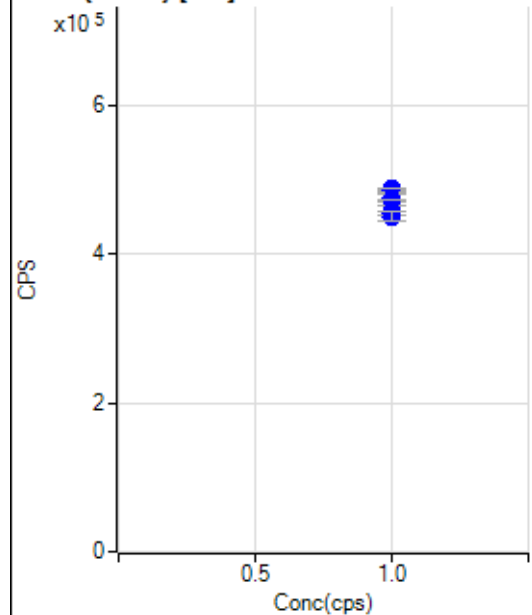
Min Conc: 0

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

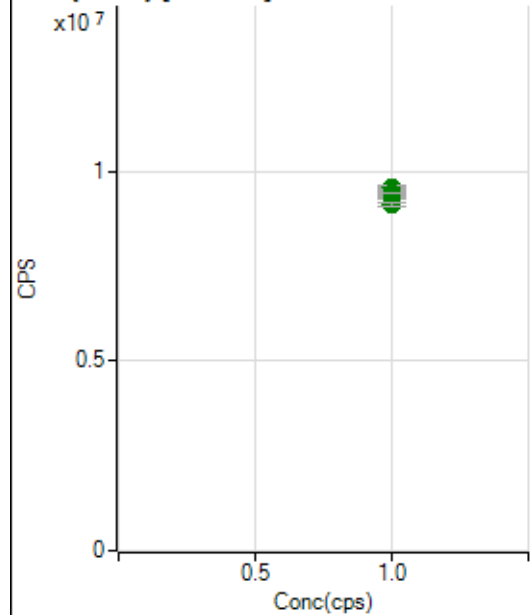
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2794689.72 |       | A    | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2834274.40 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2776361.62 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2774822.36 |       | A    | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2723438.05 |       | A    | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2667789.49 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2700910.07 |       | A    | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2547778.43 |       | A    | 0.9 |

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

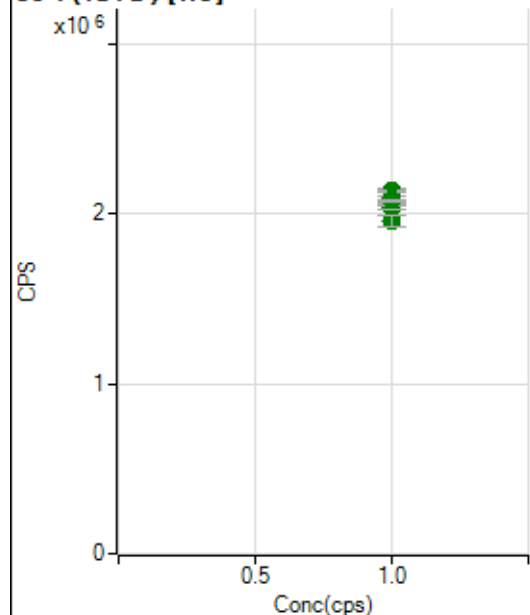
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5968403.73 |       | A    | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5985243.87 |       | A    | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5836307.69 |       | A    | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5824732.14 |       | A    | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5703441.10 |       | A    | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5653275.47 |       | A    | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5795120.61 |       | A    | 2.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5802263.04 |       | A    | 1.7 |

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

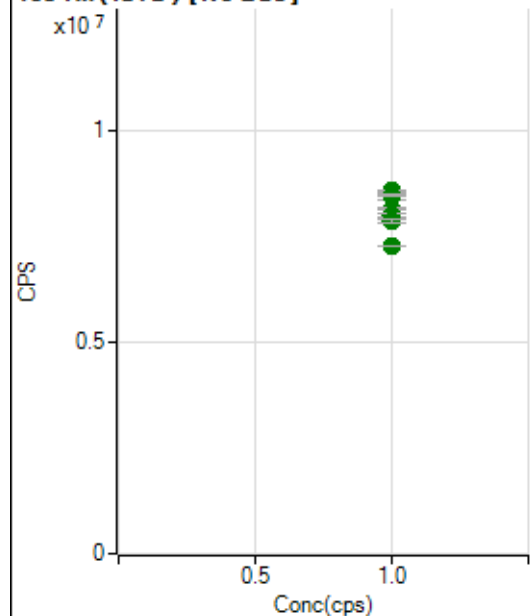
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 487024.96 |       | P        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 485262.78 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 475618.13 |       | P        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 471015.27 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 463929.96 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 454200.51 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 472151.96 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 449994.95 |       | P        | 3.2 |

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

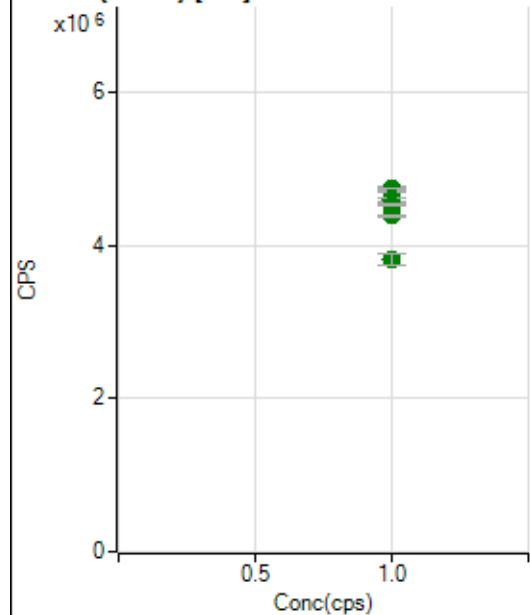
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9447807.64 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9533463.89 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9415475.27 |       | A        | 2.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9559242.71 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9304268.54 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9374388.96 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9423854.58 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9109780.35 |       | A        | 1.0 |

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

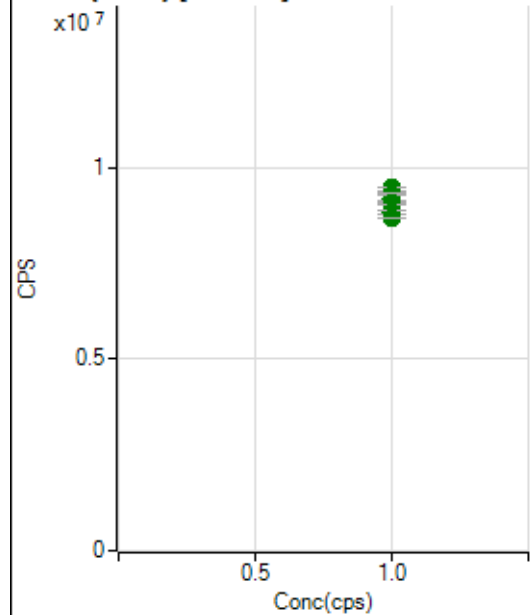
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2132561.75 |       | A    | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2130698.56 |       | A    | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2094524.39 |       | A    | 2.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2079125.26 |       | A    | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2046022.02 |       | A    | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2036719.97 |       | A    | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2075392.45 |       | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1958322.66 |       | A    | 3.5 |

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

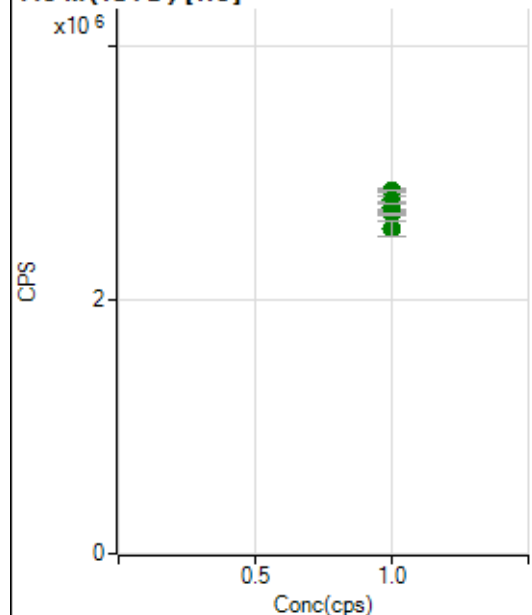
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8504365.50 |       | A    | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8567983.62 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8453800.85 |       | A    | 2.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8453058.07 |       | A    | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8140961.62 |       | A    | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7989057.10 |       | A    | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7870827.24 |       | A    | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7275776.91 |       | A    | 0.3 |

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

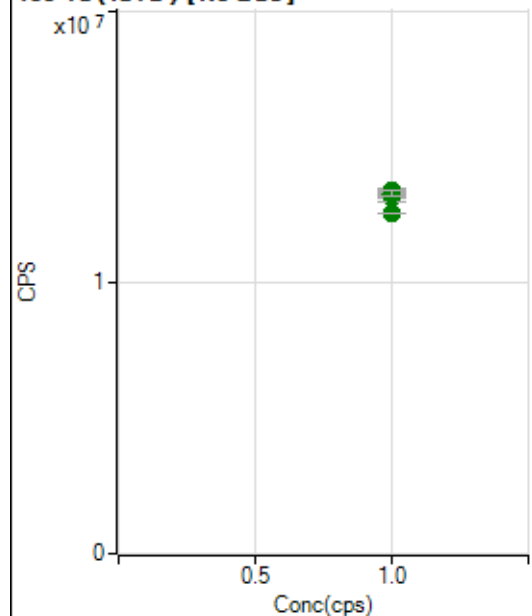
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4726810.07 |       | A    | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4734746.28 |       | A    | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4620317.85 |       | A    | 3.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4602252.22 |       | A    | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4523060.04 |       | A    | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4387162.26 |       | A    | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4387589.17 |       | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3814154.28 |       | A    | 4.2 |

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

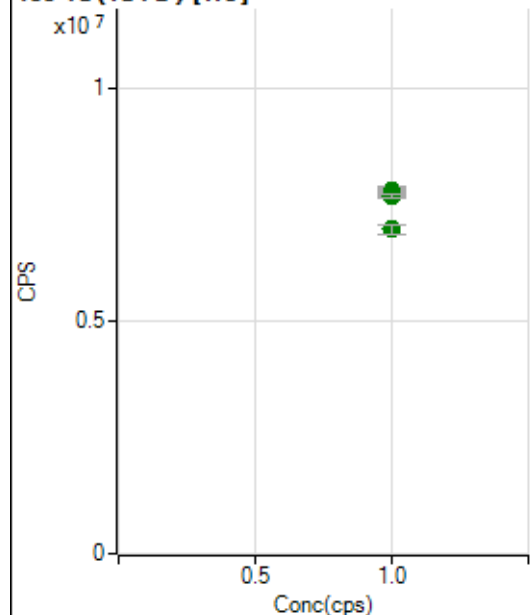
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9362660.79 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9459830.13 |       | A    | 0.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9192603.63 |       | A    | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9292701.24 |       | A    | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9080295.00 |       | A    | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9016670.58 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8839227.55 |       | A    | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8682612.74 |       | A    | 0.1 |

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

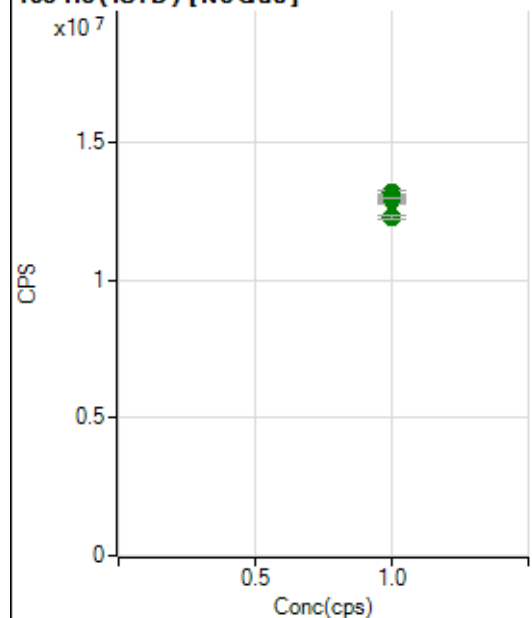
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2845859.24 |       | A    | 1.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2856363.71 |       | A    | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2786546.07 |       | A    | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2771006.64 |       | A    | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2731252.86 |       | A    | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2678133.80 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2677173.97 |       | A    | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2558605.78 |       | A    | 4.3 |

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

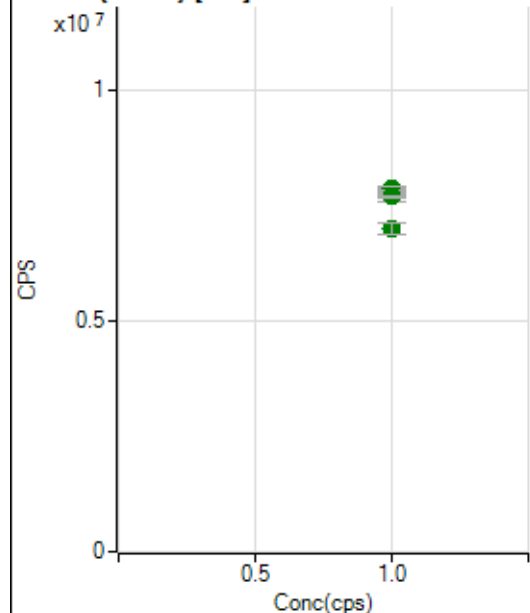
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13133672.44 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13352124.25 |       | A    | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13199135.64 |       | A    | 3.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13343712.16 |       | A    | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13293733.97 |       | A    | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13361637.85 |       | A    | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13272716.33 |       | A    | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12512592.04 |       | A    | 0.1 |

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

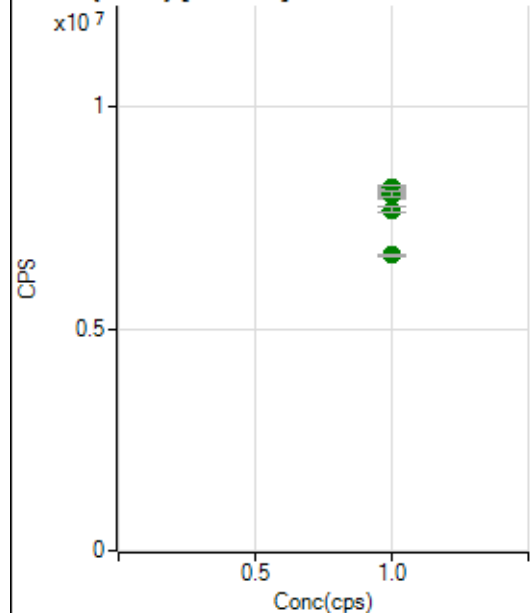
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7799270.93 |       | A    | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7801611.76 |       | A    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7765128.15 |       | A    | 2.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7785063.08 |       | A    | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7765960.58 |       | A    | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7683260.44 |       | A    | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7694739.33 |       | A    | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6971499.41 |       | A    | 2.8 |

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

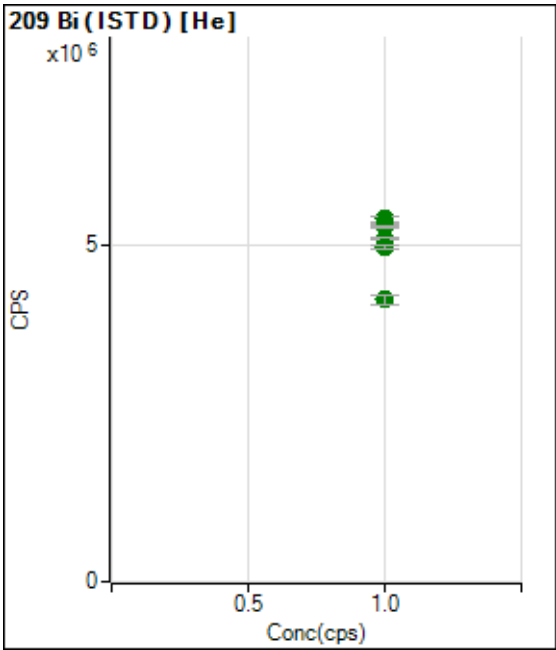
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12886918.28 |       | A    | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13090339.25 |       | A    | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12902766.06 |       | A    | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13156348.14 |       | A    | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12977181.61 |       | A    | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13050815.50 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12971126.06 |       | A    | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12268882.87 |       | A    | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7809367.45 |       | A    | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7782920.72 |       | A    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7682287.25 |       | A    | 2.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7817882.32 |       | A    | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7853981.27 |       | A    | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7719599.88 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7684587.53 |       | A    | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6994703.78 |       | A    | 3.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8126628.07 |       | A    | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8152871.96 |       | A    | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8047306.61 |       | A    | 2.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8181571.68 |       | A    | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8005328.70 |       | A    | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8043782.31 |       | A    | 1.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7692815.79 |       | A    | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6663808.23 |       | A    | 0.5 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5388108.84 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5330764.75 |       | A        | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5298082.94 |       | A        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5335620.86 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5274426.73 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5095984.61 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4969308.88 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4190683.48 |       | A        | 3.1 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042324-MS2.b

Acq. Date-Time 2024-04-23 09:31:12

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 16609  | 166090.55  |                            |             | 0.359  | 5.000           |
| 24   |              | 101499 | 1014990.18 |                            |             | 0.946  | 5.000           |
| 25   |              | 13999  | 139994.27  |                            |             | 0.634  | 5.000           |
| 26   |              | 16562  | 165620.96  |                            |             | 0.632  | 5.000           |
| 59   |              | 120146 | 1201462.42 |                            |             | 0.784  | 5.000           |
| 113  |              | 16339  | 163389.65  |                            |             | 0.396  | 5.000           |
| 115  |              | 199854 | 1998541.41 |                            |             | 0.548  | 5.000           |
| 206  |              | 47603  | 476031.93  |                            |             | 0.404  | 5.000           |
| 207  |              | 43902  | 439020.68  |                            |             | 0.420  | 5.000           |
| 208  |              | 111960 | 1119595.20 |                            |             | 1.094  | 5.000           |
| 220  |              | 0      | 2.60       |                            |             | 25.074 |                 |

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

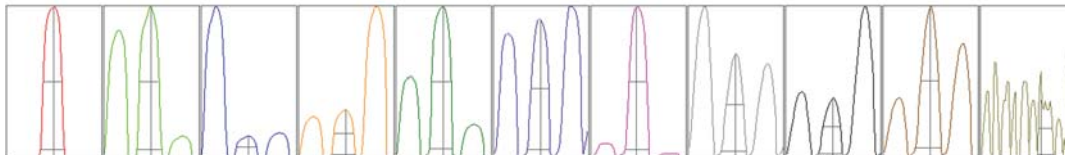
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 16597       | 16631       | 16701       | 16553       | 16564       |
| 24   | 100201      | 100847      | 102285      | 101706      | 102456      |
| 25   | 13875       | 13957       | 14111       | 14038       | 14017       |
| 26   | 16402       | 16563       | 16545       | 16685       | 16616       |
| 59   | 119579      | 120623      | 120723      | 121032      | 118775      |
| 113  | 16311       | 16405       | 16366       | 16372       | 16241       |
| 115  | 201163      | 200420      | 199583      | 198215      | 199890      |
| 206  | 47634       | 47527       | 47925       | 47463       | 47468       |
| 207  | 43890       | 44003       | 43975       | 44053       | 43590       |
| 208  | 113141      | 113111      | 110690      | 112170      | 110685      |

# US EPA Tune Check Report

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 29494.23    | 9.00   | 8.90 - 9.10     |             |
| 24   | 174509.61   | 24.00  | 23.90 - 24.10   |             |
| 25   | 23648.48    | 25.00  | 24.90 - 25.10   |             |
| 26   | 27597.79    | 26.00  | 25.90 - 26.10   |             |
| 59   | 205119.39   | 59.00  | 58.90 - 59.10   |             |
| 113  | 30318.78    | 113.00 | 112.90 - 113.10 |             |
| 115  | 365972.74   | 114.95 | 114.90 - 115.10 |             |
| 206  | 91202.66    | 206.00 | 205.90 - 206.10 |             |
| 207  | 82469.53    | 207.00 | 206.90 - 207.10 |             |
| 208  | 209482.89   | 208.00 | 207.90 - 208.10 |             |
| 220  | 0.30        | 220.45 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.58  | 0.749 | 0.900           |             |
| 24   | 0.62  | 0.779 | 0.900           |             |
| 25   | 0.62  | 0.738 | 0.900           |             |
| 26   | 0.63  | 0.744 | 0.900           |             |
| 59   | 0.61  | 0.738 | 0.900           |             |
| 113  | 0.55  | 0.729 | 0.900           |             |
| 115  | 0.55  | 0.763 | 0.900           |             |
| 206  | 0.54  | 0.796 | 0.900           |             |
| 207  | 0.54  | 0.748 | 0.900           |             |
| 208  | 0.55  | 0.817 | 0.900           |             |
| 220  | 0.44  | 0.494 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

# US EPA Tune Check Report

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | 0.0 V    | Omega Lens    | 7.7 V | Deflect    | 14.4 V |
| Extract 2  | -145.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -80 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 133 | Axis Gain   | 0.9976 | QP Bias | -3.0 V |
| Mass Offset | 130 | Axis Offset | 0.13   |         |        |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.7 mm | Torch V | 0.9 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.7 mV | Analog HV | 2302 V | Pulse HV | 1348 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 38888 | 388875.65 |                            |             | 2.894 |                 |
| 89   |              | 36574 | 365742.35 |                            |             | 2.733 |                 |
| 205  |              | 45379 | 453786.30 |                            |             | 2.256 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 38874       | 40829       | 38440       | 38151       | 38143       |
| 89   | 36668       | 38255       | 36251       | 35907       | 35790       |
| 205  | 45611       | 47069       | 44916       | 44681       | 44616       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

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

### Lens Parameters

|           |       |            |       |         |       |
|-----------|-------|------------|-------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 8.1 V | Deflect | 2.4 V |
|-----------|-------|------------|-------|---------|-------|

# US EPA Tune Check Report

|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -145.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -80 V    | Cell Exit     | -60 V |            |       |

## Cell Parameters

|         |            |              |         |                       |       |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes        | 3rd Gas Flow | ---     | Energy Discrimination | 5.0 V |
| He Flow | 3.9 mL/min | OctP Bias    | -18.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V   |                       |       |

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 133 | Axis Gain   | 0.9976 | QP Bias | -13.0 V |
| Mass Offset | 130 | Axis Offset | 0.13   |         |         |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.7 mm | Torch V | 0.9 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.7 mV | Analog HV | 2302 V | Pulse HV | 1348 V |
|---------------|--------|-----------|--------|----------|--------|