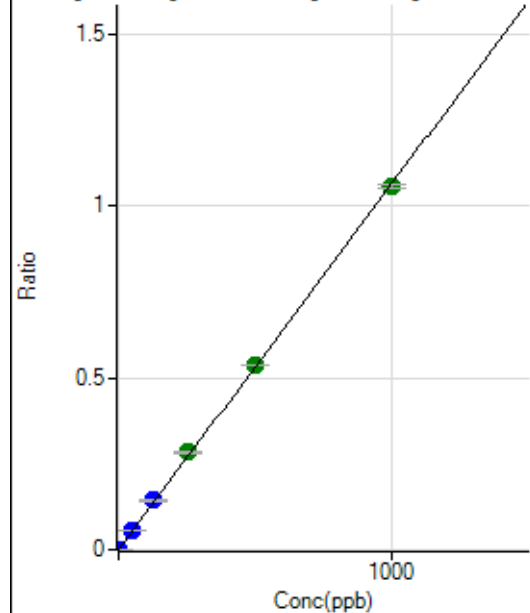


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030425MS.b\  
Analysis File: P8030425MS.batch.bin  
DA Date-Time: 2025-03-04 14:28:59  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2025-03-04 12:29:22 |
| 2     | 005CALS.d          | S02         | 2025-03-04 12:32:44 |
| 3     | 006CALB.d          | S03         | 2025-03-04 12:36:08 |
| 4     | 007CALS.d          | S04         | 2025-03-04 12:39:14 |
| 5     | 008CALS.d          | S05         | 2025-03-04 12:42:16 |
| 6     | 009CALS.d          | S06         | 2025-03-04 12:45:06 |
| 7     | 010CALS.d          | S07         | 2025-03-04 12:47:54 |
| 8     | 011CALS.d          | S08         | 2025-03-04 12:50:39 |

**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      | 161.65     | 0.0000 | P    | 5.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.087      | 6393.94    | 0.0012 | P    | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 53.541     | 296073.36  | 0.0570 | P    | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 134.405    | 738277.04  | 0.1429 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 265.723    | 1491650.85 | 0.2825 | A    | 1.9 |
| 6 | <input type="checkbox"/> | 500.000  | 504.894    | 2856181.34 | 0.5368 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.269    | 5570260.60 | 1.0549 | A    | 1.1 |
| 8 | <input type="checkbox"/> |          |            | 1526.14    | 0.0003 | P    | 7.7 |

$$y = 0.0011 * x + 3.0292E-005$$

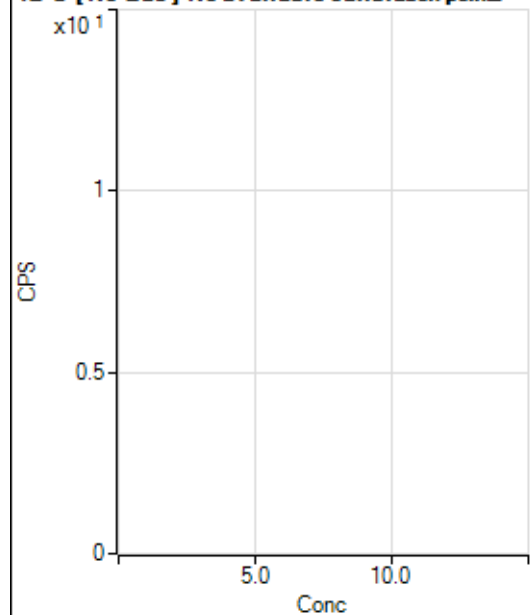
$$R = 0.9998$$

$$DL = 0.004995$$

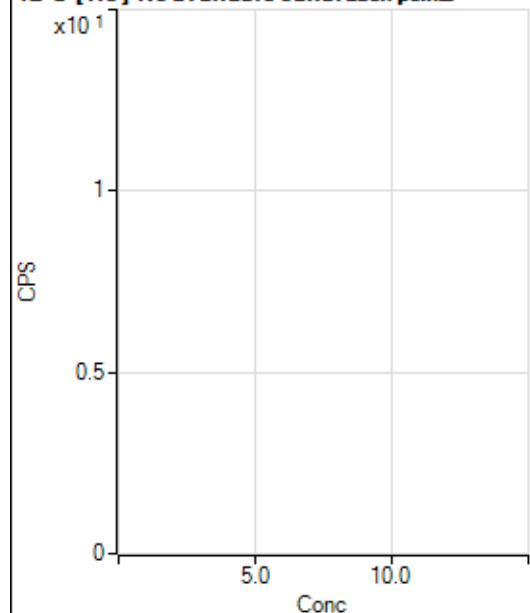
$$BEC = 0.02849$$

Weight: &lt;None&gt;

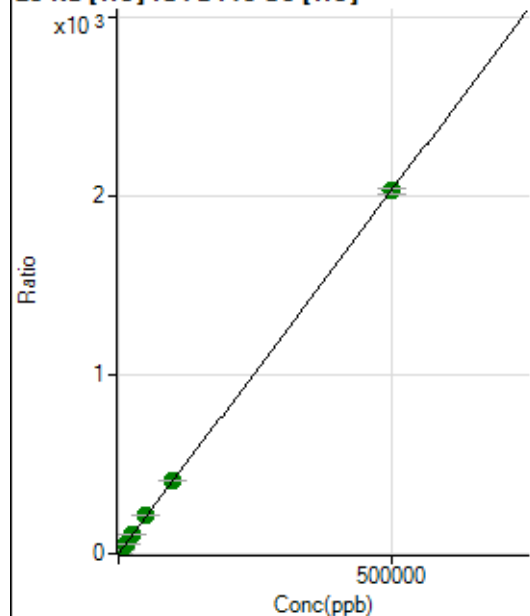
Min Conc: 0

**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"/> |       |            | 4016058.17 |       | A    | 0.3 |
| 2 | <input type="checkbox"/> |       |            | 4134726.74 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> |       |            | 4010843.65 |       | A    | 1.2 |
| 4 | <input type="checkbox"/> |       |            | 4095957.02 |       | A    | 0.9 |
| 5 | <input type="checkbox"/> |       |            | 4152583.65 |       | A    | 0.9 |
| 6 | <input type="checkbox"/> |       |            | 4328355.11 |       | A    | 2.4 |
| 7 | <input type="checkbox"/> |       |            | 4941732.74 |       | A    | 3.6 |
| 8 | <input type="checkbox"/> |       |            | 4345545.70 |       | A    | 0.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 26513.95 |       | P        | 2.0 |
| 2 | <input type="checkbox"/> |       |            | 27073.85 |       | P        | 1.1 |
| 3 | <input type="checkbox"/> |       |            | 26183.38 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> |       |            | 27414.47 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> |       |            | 27953.32 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> |       |            | 30051.85 |       | P        | 1.5 |
| 7 | <input type="checkbox"/> |       |            | 35578.56 |       | P        | 1.6 |
| 8 | <input type="checkbox"/> |       |            | 36549.83 |       | P        | 1.4 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 23966.39    | 0.2195    | P        | 0.8 |
| 2 | <input type="checkbox"/> | 500.000   | 542.772    | 261121.97   | 2.4199    | P        | 1.7 |
| 3 | <input type="checkbox"/> | 5000.000  | 5381.051   | 2309067.28  | 22.0341   | A        | 0.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 13461.852  | 5735765.33  | 54.7934   | A        | 0.9 |
| 5 | <input type="checkbox"/> | 25000.000 | 26519.610  | 11423732.33 | 107.7290  | A        | 1.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 51867.662  | 22828239.94 | 210.4890  | A        | 0.5 |
| 7 | <input type="checkbox"/> | 100000.00 | 100487.33  | 46066309.31 | 407.5912  | A        | 1.1 |
| 8 | <input type="checkbox"/> | 500000.00 | 499611.88  | 208994012.4 | 2,025.626 | A        | 1.5 |

$$y = 0.0041 * x + 0.2195$$

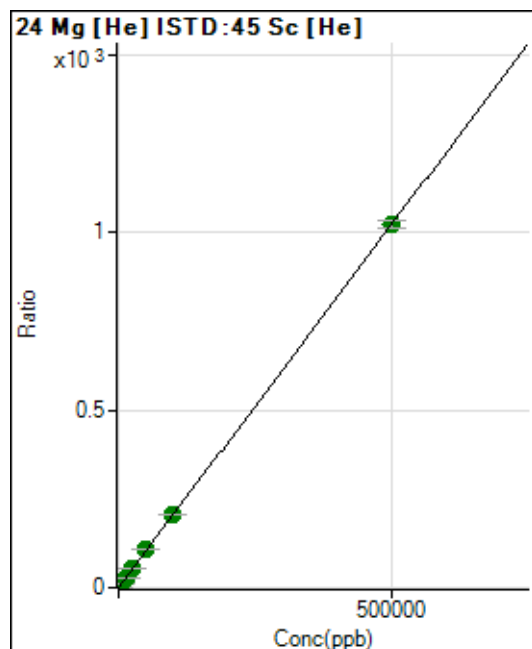
$$R = 1.0000$$

$$DL = 1.302$$

$$BEC = 54.15$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio     | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2053.50     | 0.0188    | P        | 2.4 |
| 2 | <input type="checkbox"/> | 500.000   | 553.871    | 124136.35   | 1.1504    | P        | 1.7 |
| 3 | <input type="checkbox"/> | 5000.000  | 5409.516   | 1160137.36  | 11.0707   | A        | 0.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 13725.840  | 2937449.71  | 28.0613   | A        | 1.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 26816.338  | 5811852.69  | 54.8058   | A        | 1.1 |
| 6 | <input type="checkbox"/> | 50000.000 | 52070.228  | 11539354.41 | 106.4006  | A        | 0.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 99901.753  | 23071142.99 | 204.1225  | A        | 0.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 499687.01  | 105322081.7 | 1,020.901 | A        | 2.2 |

$$y = 0.0020 * x + 0.0188$$

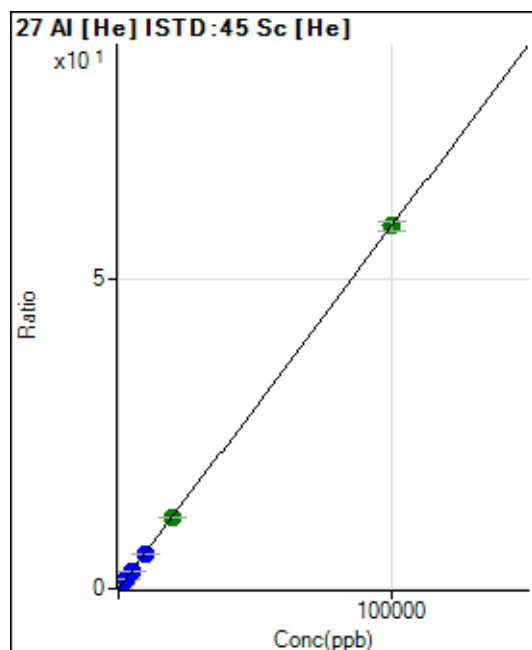
$$R = 1.0000$$

$$DL = 0.6725$$

$$BEC = 9.207$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 192.23     | 0.0018  | P        | 14.7 |
| 2 | <input type="checkbox"/> | 20.000    | 24.323     | 1727.90    | 0.0160  | P        | 2.4  |
| 3 | <input type="checkbox"/> | 1000.000  | 1014.859   | 62475.63   | 0.5962  | P        | 0.6  |
| 4 | <input type="checkbox"/> | 2500.000  | 2539.591   | 155896.95  | 1.4892  | P        | 0.8  |
| 5 | <input type="checkbox"/> | 5000.000  | 5003.251   | 310962.78  | 2.9323  | P        | 1.1  |
| 6 | <input type="checkbox"/> | 10000.000 | 9707.649   | 616838.99  | 5.6877  | P        | 0.1  |
| 7 | <input type="checkbox"/> | 20000.000 | 19685.014  | 1303416.64 | 11.5316 | A        | 1.0  |
| 8 | <input type="checkbox"/> | 100000.00 | 100090.93  | 6048093.10 | 58.6267 | A        | 2.6  |

$$y = 5.8572E-004 * x + 0.0018$$

$$R = 1.0000$$

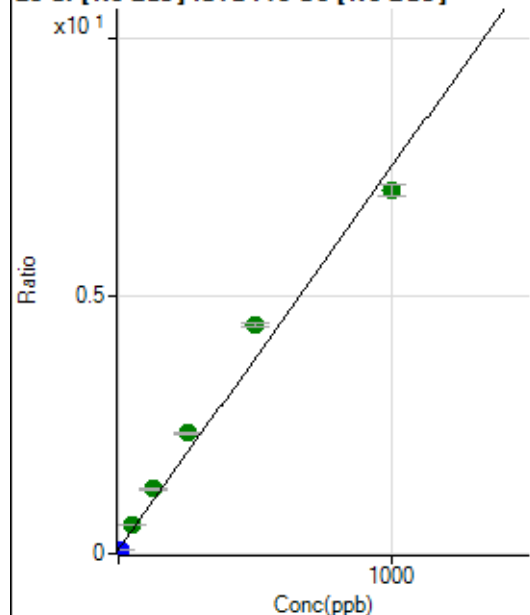
$$DL = 1.325$$

$$BEC = 3.006$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 476979.09   | 0.0787 | P    | 1.3 |
| 2 | <input type="checkbox"/> | 10.000   | 1.764      | 556781.80   | 0.0918 | P    | 0.7 |
| 3 | <input type="checkbox"/> | 50.000   | 63.416     | 3237052.14  | 0.5491 | A    | 1.7 |
| 4 | <input type="checkbox"/> | 125.000  | 158.397    | 7351686.56  | 1.2536 | A    | 1.5 |
| 5 | <input type="checkbox"/> | 250.000  | 305.122    | 14021627.70 | 2.3420 | A    | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 588.145    | 26681670.16 | 4.4414 | A    | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 937.384    | 43266896.58 | 7.0320 | A    | 3.0 |
| 8 | <input type="checkbox"/> |          |            | 766148.62   | 0.1357 | P    | 5.2 |

$$y = 0.0074 * x + 0.0787$$

$$R = 0.9914$$

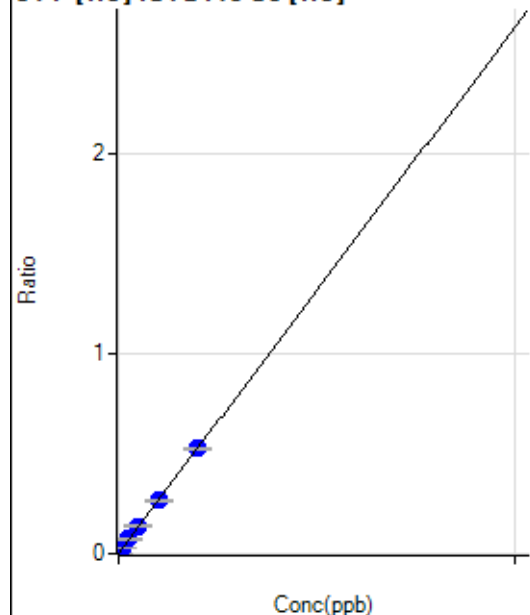
$$DL = 0.4012$$

$$BEC = 10.61$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -17.191    | 72.22    | 0.0007 | P    | 37.7 |
| 2 | <input type="checkbox"/> | 0.000     | 17.191     | 168.89   | 0.0016 | P    | 10.2 |
| 3 | <input type="checkbox"/> | 1000.000  | 1058.943   | 3029.23  | 0.0289 | P    | 2.7  |
| 4 | <input type="checkbox"/> | 2500.000  | 2711.485   | 7566.47  | 0.0723 | P    | 1.8  |
| 5 | <input type="checkbox"/> | 5000.000  | 5245.948   | 14718.68 | 0.1388 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 10019.534  | 28640.52 | 0.2641 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 20000.000 | 19899.363  | 59154.23 | 0.5234 | P    | 0.9  |
| 8 | <input type="checkbox"/> |           |            | 85.56    | 0.0008 | P    | 15.1 |

$$y = 2.6246E-005 * x + 0.0011$$

$$R = 0.9999$$

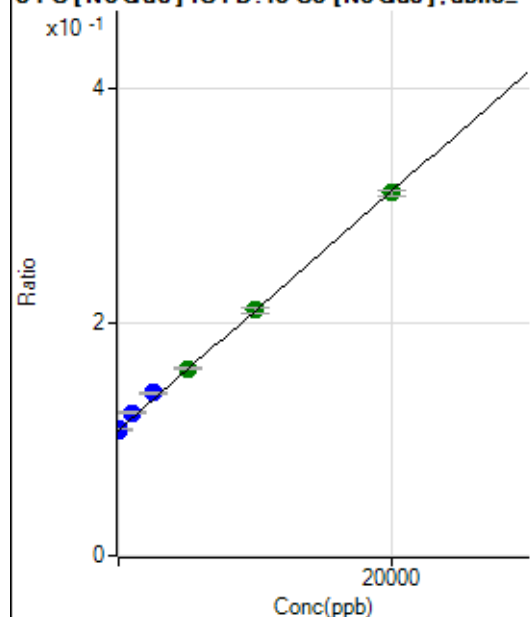
$$DL = 23.35$$

$$BEC = 42.4$$

Weight: &lt;None&gt;

Min Conc: 0

34 S [No Gas] ISTD:45 Sc [No Gas].abno\_



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -84.544    | 648778.52  | 0.1070 | P   | 1.1 |
| 2 | <input type="checkbox"/> | 0.000     | 84.544     | 659816.22  | 0.1088 | P   | 0.4 |
| 3 | <input type="checkbox"/> | 1000.000  | 1448.067   | 723443.98  | 0.1227 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 3133.788   | 820804.59  | 0.1400 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 5149.932   | 961551.91  | 0.1606 | A   | 1.3 |
| 6 | <input type="checkbox"/> | 10000.000 | 10021.398  | 1264423.74 | 0.2105 | A   | 2.0 |
| 7 | <input type="checkbox"/> | 20000.000 | 19850.191  | 1914508.41 | 0.3111 | A   | 1.9 |
| 8 | <input type="checkbox"/> |           |            | 562439.41  | 0.0996 | P   | 0.6 |

$$y = 1.0238E-005 * x + 0.1079$$

$$R = 0.9994$$

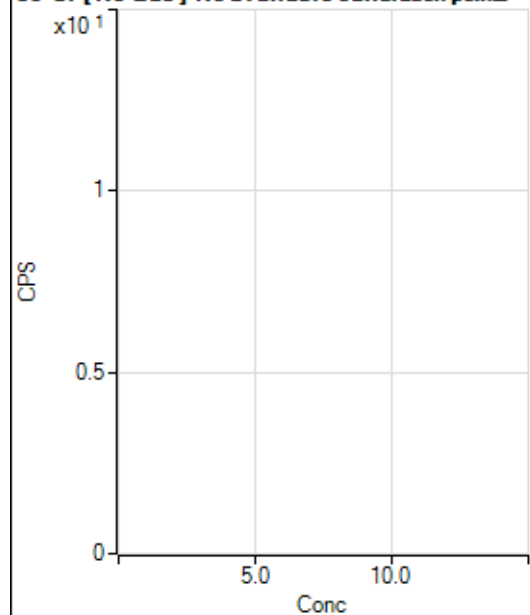
$$DL = 237.6$$

$$BEC = 1.054E+04$$

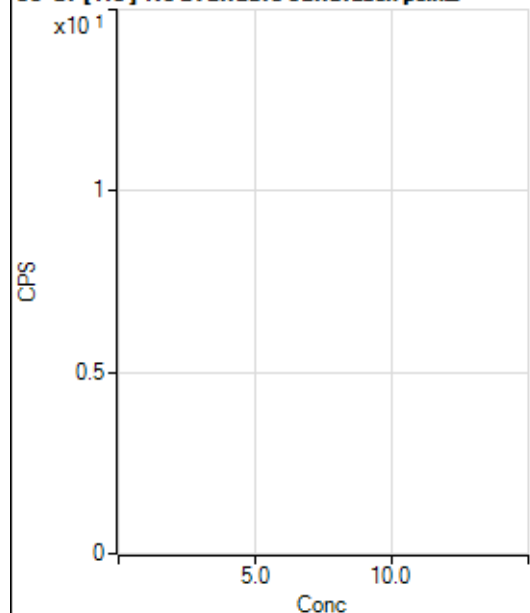
Weight: &lt;None&gt;

Min Conc: 0

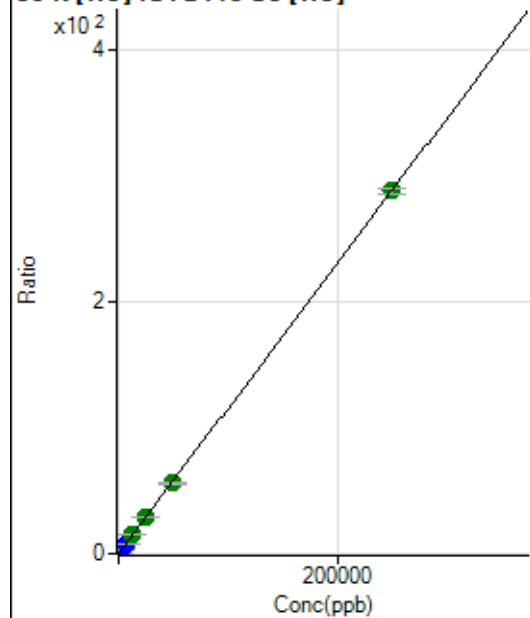
35 Cl [No Gas] No available calibration points



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> |       |            | 67398.08  |       | P   | 1.0 |
| 2 | <input type="checkbox"/> |       |            | 71391.45  |       | P   | 0.2 |
| 3 | <input type="checkbox"/> |       |            | 69560.35  |       | P   | 0.6 |
| 4 | <input type="checkbox"/> |       |            | 71568.01  |       | P   | 0.9 |
| 5 | <input type="checkbox"/> |       |            | 76420.05  |       | P   | 0.8 |
| 6 | <input type="checkbox"/> |       |            | 90879.36  |       | P   | 1.6 |
| 7 | <input type="checkbox"/> |       |            | 115090.79 |       | P   | 2.2 |
| 8 | <input type="checkbox"/> |       |            | 71953.17  |       | P   | 1.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 284.45 |       | P        | 12.4 |
| 2 | <input type="checkbox"/> |       |            | 295.56 |       | P        | 20.9 |
| 3 | <input type="checkbox"/> |       |            | 266.67 |       | P        | 6.2  |
| 4 | <input type="checkbox"/> |       |            | 291.12 |       | P        | 8.4  |
| 5 | <input type="checkbox"/> |       |            | 315.56 |       | P        | 15.3 |
| 6 | <input type="checkbox"/> |       |            | 347.79 |       | P        | 6.7  |
| 7 | <input type="checkbox"/> |       |            | 516.68 |       | P        | 6.5  |
| 8 | <input type="checkbox"/> |       |            | 303.34 |       | P        | 4.8  |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 6587.13     | 0.0603   | P        | 2.1 |
| 2 | <input type="checkbox"/> | 500.000   | 516.146    | 70566.85    | 0.6539   | P        | 1.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2457.356   | 302467.88   | 2.8863   | P        | 0.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6260.876   | 760021.42   | 7.2603   | P        | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 12893.761  | 1578761.50  | 14.8881  | A        | 1.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 24998.666  | 3124355.13  | 28.8086  | A        | 0.1 |
| 7 | <input type="checkbox"/> | 50000.000 | 48442.362  | 6302911.58  | 55.7687  | A        | 1.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 250292.09  | 29703100.67 | 287.8943 | A        | 1.7 |

$$y = 0.0011 * x + 0.0603$$

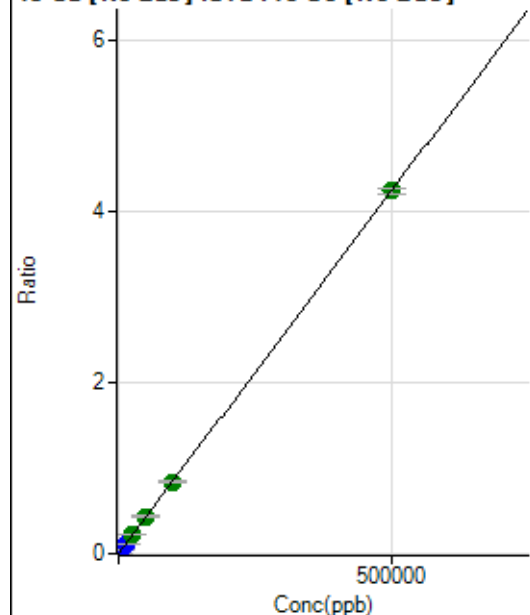
$$R = 1.0000$$

$$DL = 3.238$$

$$BEC = 52.47$$

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      | 636.69      | 0.0001 | P    | 7.3 |
| 2 | <input type="checkbox"/> | 500.000   | 535.794    | 28217.76    | 0.0047 | P    | 1.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5135.927   | 257520.17   | 0.0437 | P    | 0.8 |
| 4 | <input type="checkbox"/> | 12500.000 | 13011.425  | 647993.19   | 0.1105 | P    | 1.1 |
| 5 | <input type="checkbox"/> | 25000.000 | 25903.651  | 1316433.58  | 0.2199 | A    | 0.2 |
| 6 | <input type="checkbox"/> | 50000.000 | 51532.236  | 2627552.30  | 0.4373 | A    | 0.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 98969.697  | 5168035.27  | 0.8398 | A    | 2.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 499993.47  | 23947241.59 | 4.2423 | A    | 1.4 |

$$y = 8.4845\text{E-}006 * x + 1.0505\text{E-}004$$

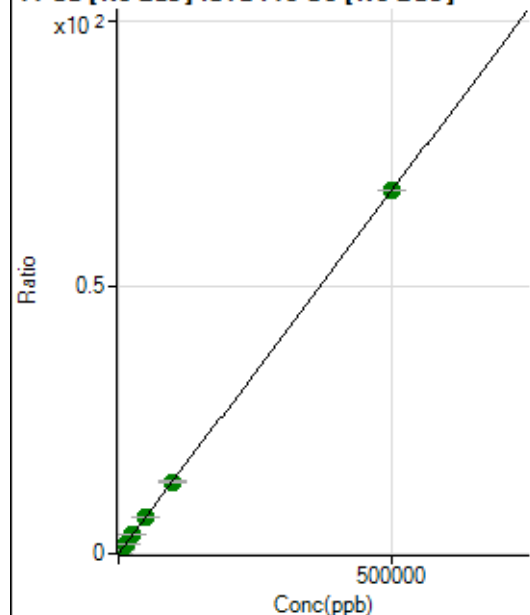
$$R = 1.0000$$

$$DL = 2.718$$

$$BEC = 12.38$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13837.87    | 0.0023  | P    | 0.6 |
| 2 | <input type="checkbox"/> | 500.000   | 534.289    | 454641.36   | 0.0749  | P    | 0.7 |
| 3 | <input type="checkbox"/> | 5000.000  | 5169.943   | 4158134.21  | 0.7053  | A    | 1.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13261.777  | 10588300.19 | 1.8056  | A    | 1.0 |
| 5 | <input type="checkbox"/> | 25000.000 | 25621.496  | 20872000.11 | 3.4863  | A    | 0.8 |
| 6 | <input type="checkbox"/> | 50000.000 | 50463.260  | 41240542.72 | 6.8643  | A    | 0.3 |
| 7 | <input type="checkbox"/> | 100000.00 | 98682.216  | 82594098.21 | 13.4212 | A    | 1.5 |
| 8 | <input type="checkbox"/> | 500000.00 | 500165.37  | 383942620.9 | 68.0152 | A    | 0.2 |

$$y = 1.3598\text{E-}004 * x + 0.0023$$

$$R = 1.0000$$

$$DL = 0.2883$$

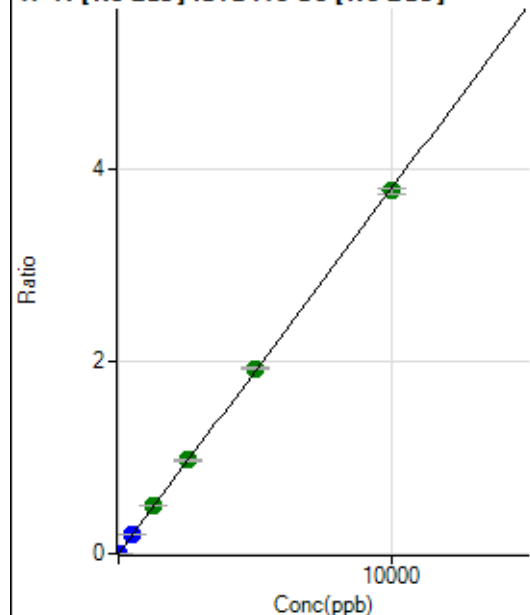
$$BEC = 16.79$$

Weight: &lt;None&gt;

Min Conc: 0



47 Ti [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      | 186.67      | 0.0000 | P    | 6.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.386      | 12585.58    | 0.0021 | P    | 0.8 |
| 3 | <input type="checkbox"/> | 500.000   | 512.893    | 1147524.85  | 0.1946 | P    | 0.1 |
| 4 | <input type="checkbox"/> | 1250.000  | 1332.130   | 2964400.58  | 0.5055 | A    | 0.9 |
| 5 | <input type="checkbox"/> | 2500.000  | 2571.130   | 5840844.01  | 0.9756 | A    | 1.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5076.421   | 11572790.80 | 1.9263 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9933.096   | 23193877.43 | 3.7691 | A    | 1.8 |
| 8 | <input type="checkbox"/> |           |            | 6385.92     | 0.0011 | P    | 3.3 |

$$y = 3.7945\text{E-}004 * x + 3.0802\text{E-}005$$

$$R = 0.9999$$

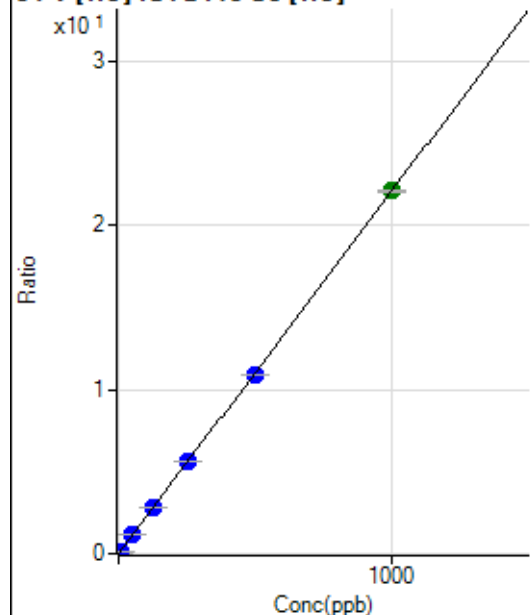
$$DL = 0.01518$$

$$BEC = 0.08118$$

Weight: &lt;None&gt;

Min Conc: 0

51 V [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      | 7.78       | 0.0001  | P    | 65.5 |
| 2 | <input type="checkbox"/> | 5.000    | 5.312      | 12667.92   | 0.1174  | P    | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 50.856     | 117731.90  | 1.1235  | P    | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 129.487    | 299433.00  | 2.8604  | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 253.917    | 594814.26  | 5.6090  | P    | 0.2  |
| 6 | <input type="checkbox"/> | 500.000  | 494.105    | 1183679.16 | 10.9146 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.363   | 2500045.13 | 22.1197 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 585.57     | 0.0057  | P    | 16.0 |

$$y = 0.0221 * x + 7.1266\text{E-}005$$

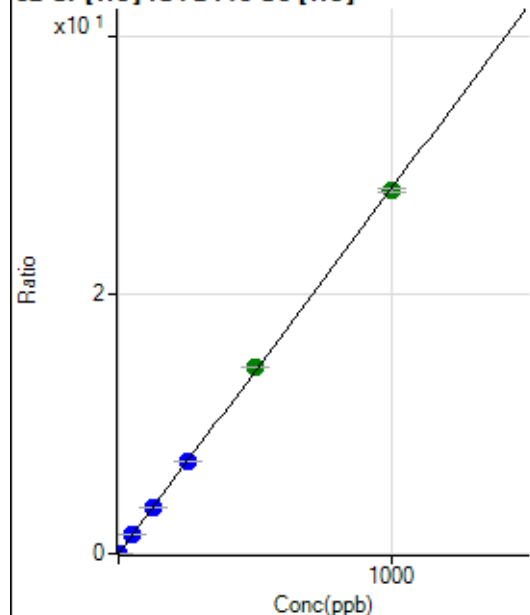
$$R = 1.0000$$

$$DL = 0.006341$$

$$BEC = 0.003226$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 781.14     | 0.0072  | P        | 9.0 |
| 2 | <input type="checkbox"/> | 2.000    | 2.112      | 7205.21    | 0.0668  | P        | 1.1 |
| 3 | <input type="checkbox"/> | 50.000   | 50.956     | 151504.13  | 1.4458  | P        | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 128.401    | 380222.98  | 3.6322  | P        | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 252.249    | 755976.18  | 7.1287  | P        | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 511.220    | 1566054.94 | 14.4401 | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.354    | 3170409.74 | 28.0518 | A        | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 14084.79   | 0.1365  | P        | 2.2 |

$$y = 0.0282 * x + 0.0072$$

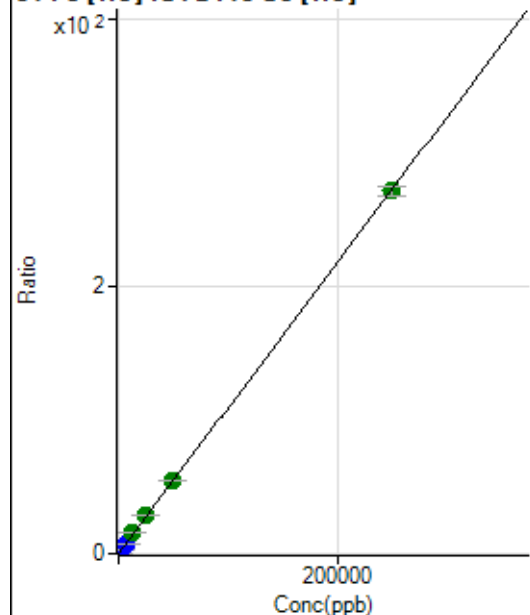
$$R = 0.9999$$

$$DL = 0.0682$$

$$BEC = 0.2534$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 386.68      | 0.0035   | P        | 4.7 |
| 2 | <input type="checkbox"/> | 50.000    | 58.688     | 7279.70     | 0.0675   | P        | 0.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2701.344   | 308628.01   | 2.9452   | P        | 1.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 6813.997   | 777114.95   | 7.4237   | P        | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 14006.200  | 1617855.10  | 15.2556  | A        | 1.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26650.626  | 3147696.66  | 29.0248  | A        | 1.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 50693.728  | 6239557.20  | 55.2065  | A        | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249604.76  | 28040273.19 | 271.8109 | A        | 2.7 |

$$y = 0.0011 * x + 0.0035$$

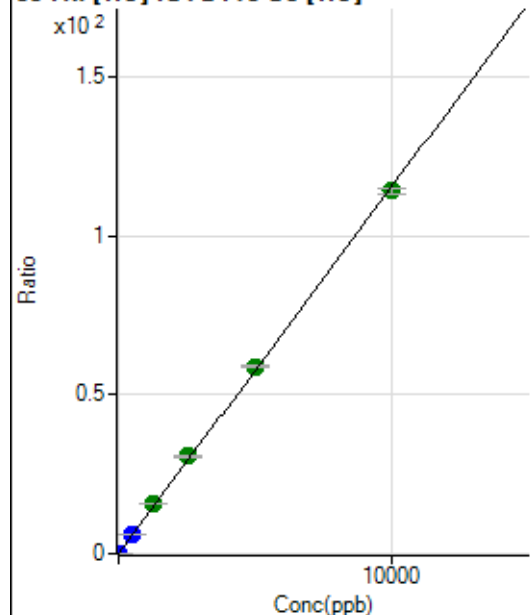
$$R = 1.0000$$

$$DL = 0.4594$$

$$BEC = 3.253$$

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      | 2063.50     | 0.0189   | P    | 2.8 |
| 2 | <input type="checkbox"/> | 1.000     | 0.877      | 3131.48     | 0.0290   | P    | 1.4 |
| 3 | <input type="checkbox"/> | 500.000   | 511.573    | 620170.50   | 5.9180   | P    | 0.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1366.373   | 1651341.50  | 15.7748  | A    | 1.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2661.641   | 3256756.13  | 30.7108  | A    | 1.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5103.917   | 6384915.81  | 58.8732  | A    | 0.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9892.506   | 12894436.19 | 114.0913 | A    | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 5829.02     | 0.0565   | P    | 1.5 |

$$y = 0.0115 * x + 0.0189$$

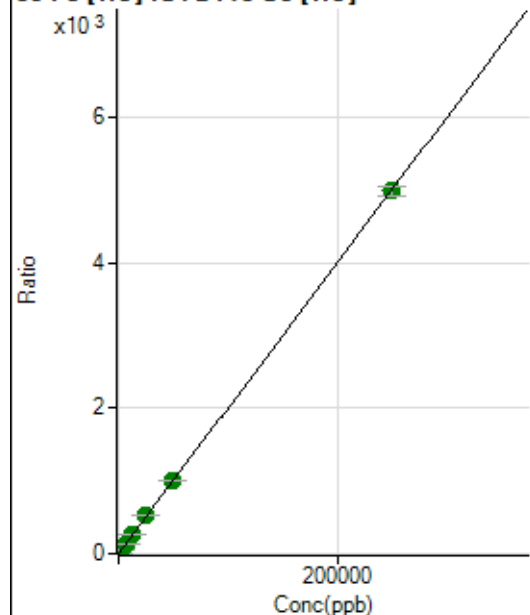
$$R = 0.9997$$

$$DL = 0.1369$$

$$BEC = 1.639$$

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      | 4844.20     | 0.0444    | P    | 1.8 |
| 2 | <input type="checkbox"/> | 50.000    | 57.322     | 128297.31   | 1.1889    | P    | 1.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2752.175   | 5763495.82  | 54.9974   | A    | 0.1 |
| 4 | <input type="checkbox"/> | 6250.000  | 6973.941   | 14581492.70 | 139.2939  | A    | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 13622.428  | 28849289.57 | 272.0450  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26211.520  | 56764338.60 | 523.4128  | A    | 0.6 |
| 7 | <input type="checkbox"/> | 50000.000 | 50478.544  | 113918963.8 | 1,007.955 | A    | 1.2 |
| 8 | <input type="checkbox"/> | 250000.00 | 249706.39  | 514376005.6 | 4,985.960 | A    | 2.3 |

$$y = 0.0200 * x + 0.0444$$

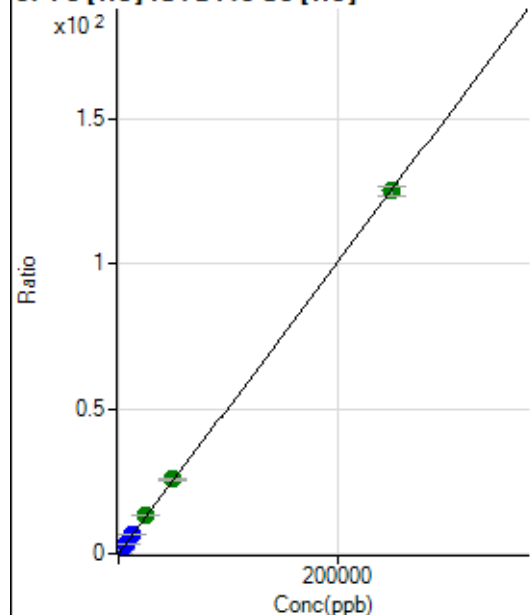
$$R = 1.0000$$

$$DL = 0.1196$$

$$BEC = 2.222$$

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      | 131.11      | 0.0012   | P    | 6.5 |
| 2 | <input type="checkbox"/> | 50.000    | 55.774     | 3151.49     | 0.0292   | P    | 2.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2638.710   | 138955.86   | 1.3260   | P    | 1.2 |
| 4 | <input type="checkbox"/> | 6250.000  | 6712.184   | 352908.79   | 3.3712   | P    | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 13101.082  | 697661.40   | 6.5789   | P    | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 26506.872  | 1443427.63  | 13.3096  | A    | 0.4 |
| 7 | <input type="checkbox"/> | 50000.000 | 51349.894  | 2913883.67  | 25.7826  | A    | 1.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 249536.33  | 12925382.31 | 125.2867 | A    | 2.4 |

$$y = 5.0207\text{E-}004 * x + 0.0012$$

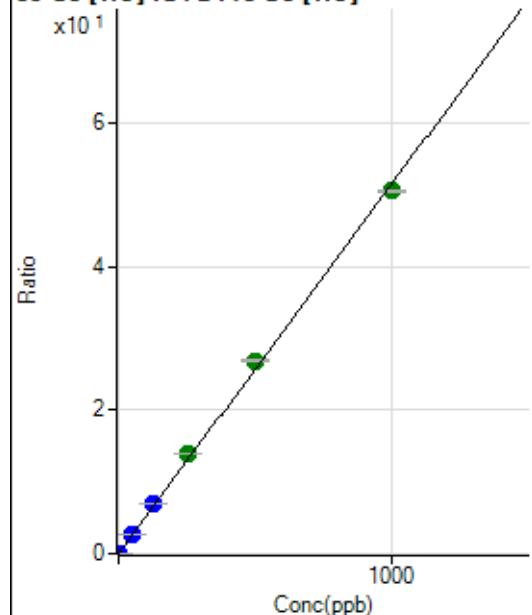
$$R = 1.0000$$

$$DL = 0.4685$$

$$BEC = 2.392$$

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      | 94.44      | 0.0009  | P    | 26.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.142      | 6440.41    | 0.0597  | P    | 3.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.558     | 283781.97  | 2.7080  | P    | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 132.955    | 716978.55  | 6.8491  | P    | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 271.727    | 1484356.49 | 13.9969 | A    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 521.928    | 2915568.25 | 26.8842 | A    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 982.482    | 5719670.61 | 50.6063 | A    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 10709.68   | 0.1038  | P    | 2.6  |

$$y = 0.0515 * x + 8.6493\text{E-}004$$

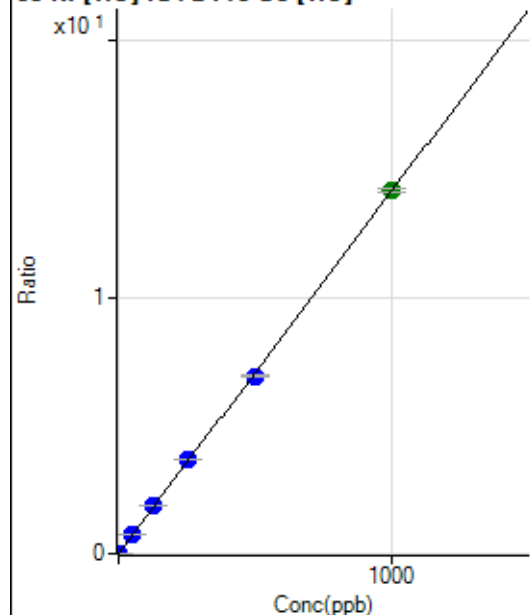
$$R = 0.9994$$

$$DL = 0.01328$$

$$BEC = 0.01679$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 426.68     | 0.0039  | P        | 2.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.047      | 2016.83    | 0.0187  | P        | 6.7 |
| 3 | <input type="checkbox"/> | 50.000   | 52.589     | 78272.62   | 0.7469  | P        | 0.5 |
| 4 | <input type="checkbox"/> | 125.000  | 132.563    | 196464.39  | 1.8768  | P        | 0.1 |
| 5 | <input type="checkbox"/> | 250.000  | 259.770    | 389600.76  | 3.6740  | P        | 1.0 |
| 6 | <input type="checkbox"/> | 500.000  | 490.446    | 751865.14  | 6.9330  | P        | 1.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.260   | 1599280.11 | 14.1499 | A        | 1.0 |
| 8 | <input type="checkbox"/> |          |            | 4076.18    | 0.0395  | P        | 5.4 |

$$y = 0.0141 * x + 0.0039$$

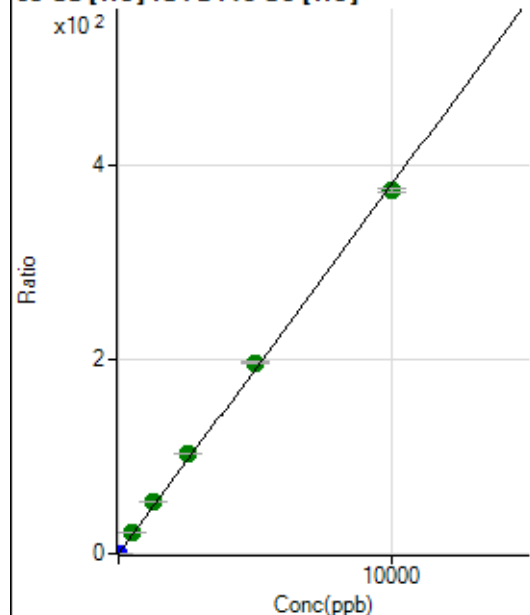
$$R = 0.9999$$

$$DL = 0.01829$$

$$BEC = 0.2766$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1168.95     | 0.0107   | P        | 0.4 |
| 2 | <input type="checkbox"/> | 2.000     | 2.300      | 10587.36    | 0.0981   | P        | 3.0 |
| 3 | <input type="checkbox"/> | 500.000   | 565.365    | 2252488.04  | 21.4952  | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1395.442   | 5552190.13  | 53.0391  | A        | 0.5 |
| 5 | <input type="checkbox"/> | 2500.000  | 2727.911   | 10994178.72 | 103.6744 | A        | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5174.195   | 21324680.10 | 196.6358 | A        | 1.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9834.476   | 42239615.20 | 373.7316 | A        | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 8820.60     | 0.0855   | P        | 0.6 |

$$y = 0.0380 * x + 0.0107$$

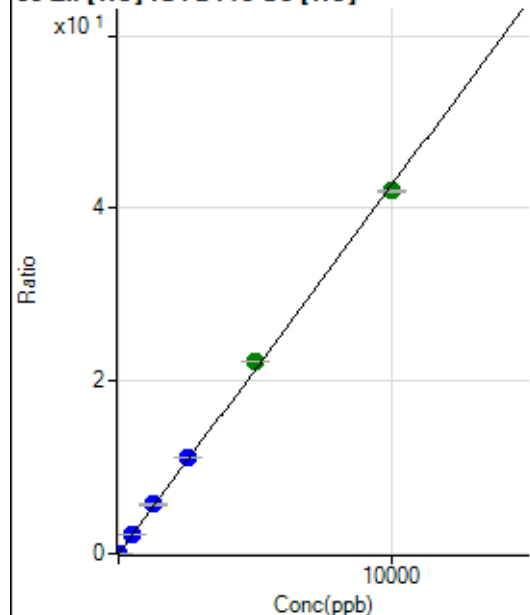
$$R = 0.9994$$

$$DL = 0.003713$$

$$BEC = 0.2818$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|-----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 333.34     | 0.0031  | P        | 6.9 |
| 2 | <input type="checkbox"/> | 5.000     | 5.400      | 2813.64    | 0.0261  | P        | 4.6 |
| 3 | <input type="checkbox"/> | 500.000   | 528.056    | 236325.81  | 2.2551  | P        | 0.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1331.599   | 594816.97  | 5.6821  | P        | 0.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2600.602   | 1176477.93 | 11.0942 | P        | 0.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 5217.837   | 2413713.68 | 22.2563 | A        | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9854.328   | 4750390.03 | 42.0301 | A        | 0.6 |
| 8 | <input type="checkbox"/> |           |            | 1690.12    | 0.0164  | P        | 4.0 |

$$y = 0.0043 * x + 0.0031$$

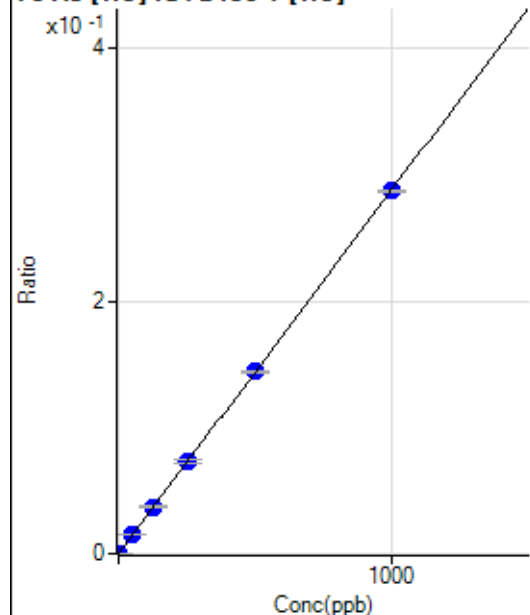
$$R = 0.9996$$

$$DL = 0.1488$$

$$BEC = 0.7159$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 10.00     | 0.0000 | P        | 33.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.014      | 293.34    | 0.0003 | P        | 15.0 |
| 3 | <input type="checkbox"/> | 50.000   | 50.873     | 13720.11  | 0.0147 | P        | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 129.528    | 34933.23  | 0.0373 | P        | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 254.094    | 69843.00  | 0.0732 | P        | 2.4  |
| 6 | <input type="checkbox"/> | 500.000  | 500.871    | 138207.57 | 0.1443 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.931    | 280506.15 | 0.2874 | P        | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 141.12    | 0.0002 | P        | 13.2 |

$$y = 2.8798E-004 * x + 1.0340E-005$$

$$R = 1.0000$$

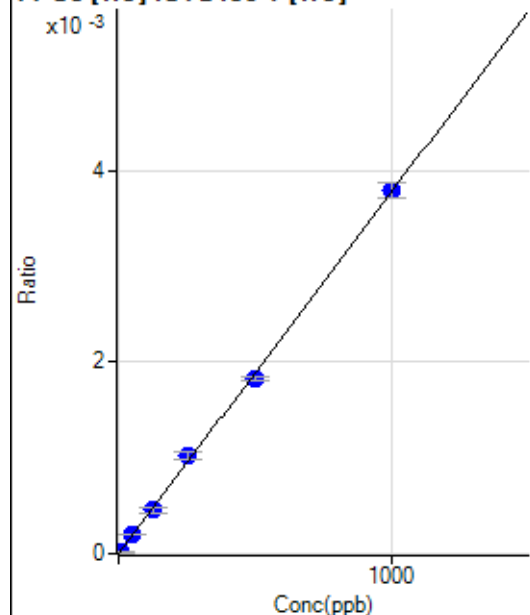
$$DL = 0.03579$$

$$BEC = 0.0359$$

Weight: &lt;None&gt;

Min Conc: 0

77 Se [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      | 0.00    | 0.0000 | P    |      |
| 2 | <input type="checkbox"/> | 5.000    | 3.039      | 11.11   | 0.0000 | P    | 46.0 |
| 3 | <input type="checkbox"/> | 50.000   | 53.191     | 187.78  | 0.0002 | P    | 9.0  |
| 4 | <input type="checkbox"/> | 125.000  | 121.724    | 430.01  | 0.0005 | P    | 12.6 |
| 5 | <input type="checkbox"/> | 250.000  | 270.756    | 974.49  | 0.0010 | P    | 6.3  |
| 6 | <input type="checkbox"/> | 500.000  | 483.546    | 1747.90 | 0.0018 | P    | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.298   | 3693.86 | 0.0038 | P    | 4.3  |
| 8 | <input type="checkbox"/> |          |            | 1.11    | 0.0000 | P    | 173. |

$$y = 3.7726\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

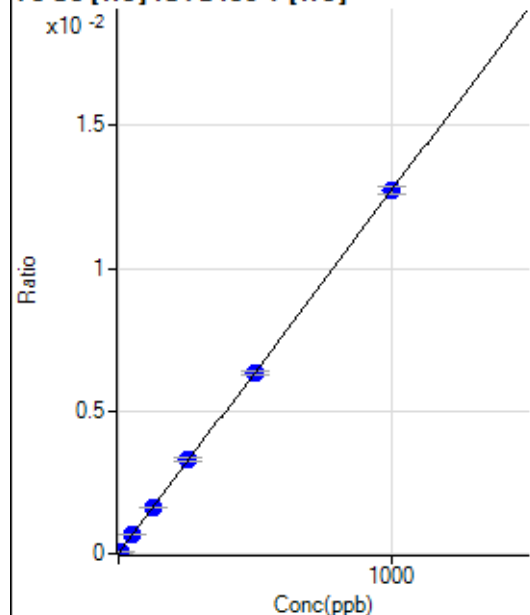
$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

78 Se [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      | 8.89     | 0.0000 | P    | 78.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.230      | 61.11    | 0.0001 | P    | 14.2 |
| 3 | <input type="checkbox"/> | 50.000   | 51.171     | 617.80   | 0.0007 | P    | 3.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.473    | 1526.77  | 0.0016 | P    | 2.0  |
| 5 | <input type="checkbox"/> | 250.000  | 258.944    | 3152.60  | 0.0033 | P    | 3.5  |
| 6 | <input type="checkbox"/> | 500.000  | 497.071    | 6066.92  | 0.0063 | P    | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.865    | 12411.12 | 0.0127 | P    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 12.22    | 0.0000 | P    | 41.8 |

$$y = 1.2721\text{E-}005 * x + 9.1947\text{E-}006$$

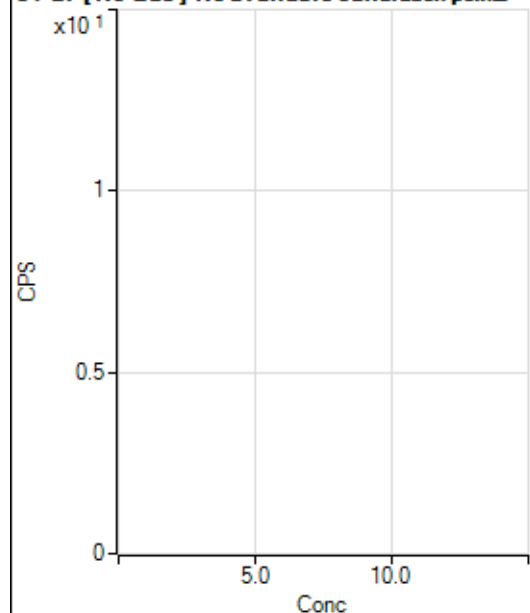
$$R = 0.9999$$

$$DL = 1.694$$

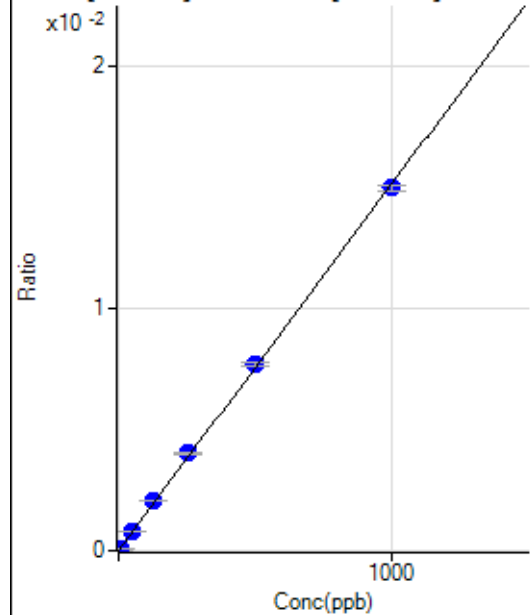
$$BEC = 0.7228$$

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"/> |       |            | 3544.93 |       | P        | 2.1 |
| 2 | <input type="checkbox"/> |       |            | 3539.37 |       | P        | 1.8 |
| 3 | <input type="checkbox"/> |       |            | 3490.47 |       | P        | 3.7 |
| 4 | <input type="checkbox"/> |       |            | 3453.80 |       | P        | 1.6 |
| 5 | <input type="checkbox"/> |       |            | 3538.26 |       | P        | 1.3 |
| 6 | <input type="checkbox"/> |       |            | 3607.17 |       | P        | 2.3 |
| 7 | <input type="checkbox"/> |       |            | 4012.83 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> |       |            | 4266.25 |       | P        | 1.4 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 6.67      | 0.0000 | P        | 542. |
| 2 | <input type="checkbox"/> | 5.000    | 4.861      | 1093.41   | 0.0001 | P        | 8.8  |
| 3 | <input type="checkbox"/> | 50.000   | 52.902     | 11501.65  | 0.0008 | P        | 2.7  |
| 4 | <input type="checkbox"/> | 125.000  | 135.853    | 29400.19  | 0.0021 | P        | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 266.956    | 58587.01  | 0.0040 | P        | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 508.449    | 112214.86 | 0.0077 | P        | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.036    | 223342.93 | 0.0150 | P        | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 53.34     | 0.0000 | P        | 75.4 |

$$y = 1.5105E-005 * x + 4.6922E-007$$

$$R = 0.9998$$

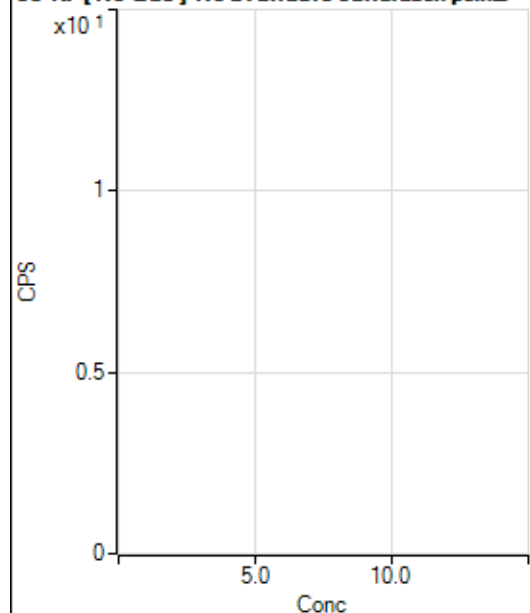
$$DL = 0.5052$$

$$BEC = 0.03106$$

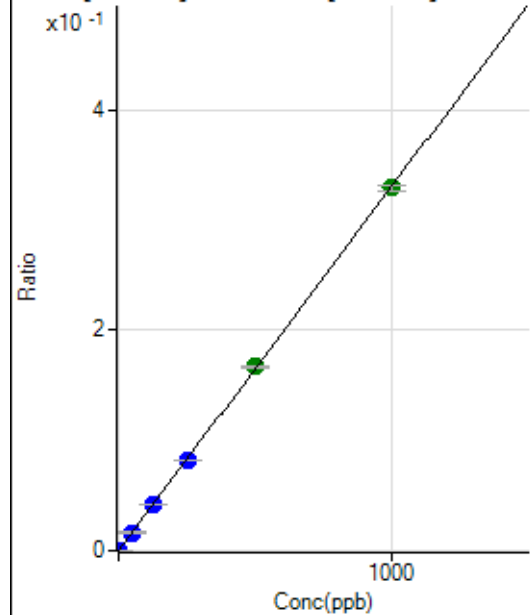
Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 198.89 |       | P        | 9.2  |
| 2 | <input type="checkbox"/> |       |            | 223.34 |       | P        | 6.5  |
| 3 | <input type="checkbox"/> |       |            | 205.56 |       | P        | 6.8  |
| 4 | <input type="checkbox"/> |       |            | 230.00 |       | P        | 9.5  |
| 5 | <input type="checkbox"/> |       |            | 222.23 |       | P        | 19.0 |
| 6 | <input type="checkbox"/> |       |            | 217.78 |       | P        | 5.8  |
| 7 | <input type="checkbox"/> |       |            | 274.45 |       | P        | 15.4 |
| 8 | <input type="checkbox"/> |       |            | 298.90 |       | P        | 11.9 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 618.91     | 0.0000 | P        | 3.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.055      | 5776.80    | 0.0004 | P        | 1.9 |
| 3 | <input type="checkbox"/> | 50.000   | 50.009     | 238271.20  | 0.0166 | P        | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 127.125    | 602151.06  | 0.0420 | P        | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 248.944    | 1195401.71 | 0.0823 | P        | 1.0 |
| 6 | <input type="checkbox"/> | 500.000  | 506.581    | 2445717.57 | 0.1674 | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.707    | 4917968.68 | 0.3293 | A        | 1.3 |
| 8 | <input type="checkbox"/> |          |            | 14377.47   | 0.0010 | P        | 1.9 |

$$y = 3.3034\text{E-}004 * x + 4.1707\text{E-}005$$

$$R = 1.0000$$

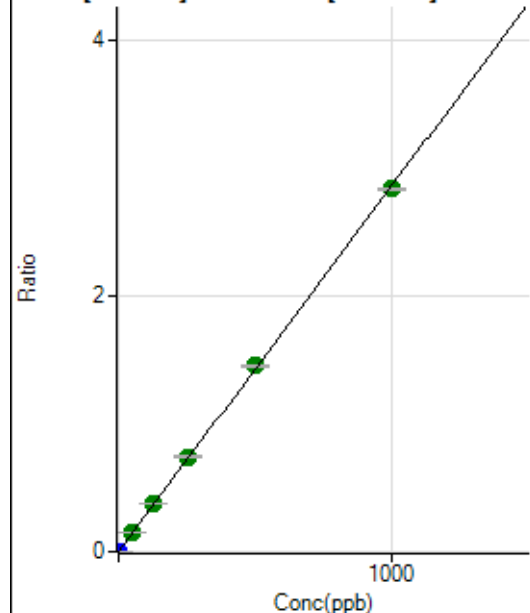
$$DL = 0.01361$$

$$BEC = 0.1263$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2462.46     | 0.0002 | P        | 5.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.056      | 47125.84    | 0.0032 | P        | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 52.596     | 2166065.61  | 0.1506 | A        | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 132.810    | 5442088.95  | 0.3799 | A        | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 259.407    | 10779379.42 | 0.7419 | A        | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 507.968    | 21224677.88 | 1.4526 | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.558    | 42390052.98 | 2.8383 | A        | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 124518.75   | 0.0090 | P        | 0.4 |

$$y = 0.0029 * x + 1.6603E-004$$

$$R = 0.9999$$

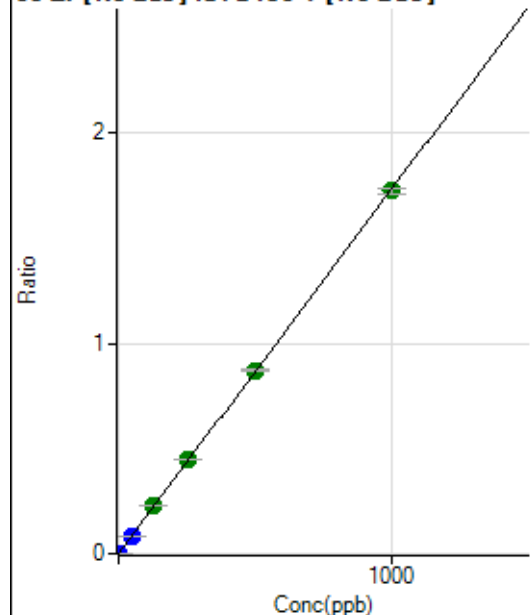
$$DL = 0.009903$$

$$BEC = 0.05807$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 947.82      | 0.0001 | P        | 8.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.021      | 27132.04    | 0.0018 | P        | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.625     | 1238661.67  | 0.0861 | P        | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 132.841    | 3299866.79  | 0.2304 | A        | 1.6 |
| 5 | <input type="checkbox"/> | 250.000  | 256.788    | 6469068.93  | 0.4452 | A        | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 503.207    | 12747763.84 | 0.8724 | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.738    | 25781964.34 | 1.7263 | A        | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 10698.66    | 0.0008 | P        | 2.5 |

$$y = 0.0017 * x + 6.3880E-005$$

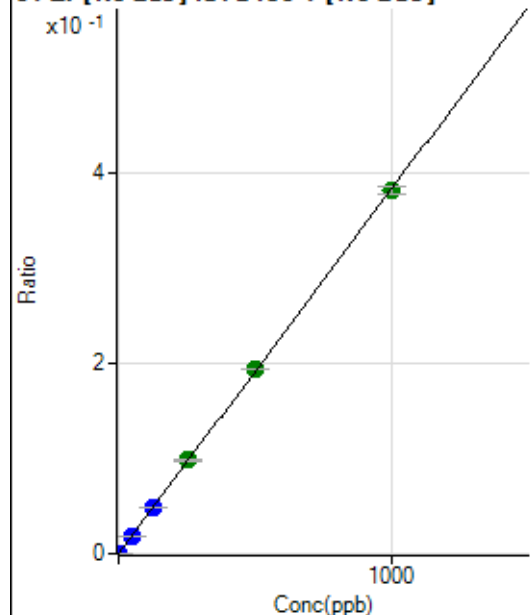
$$R = 0.9999$$

$$DL = 0.009885$$

$$BEC = 0.03685$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 223.34     | 0.0000 | P        | 17.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.015      | 5975.77    | 0.0004 | P        | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 49.546     | 273239.56  | 0.0190 | P        | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 125.968    | 691333.67  | 0.0483 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 256.915    | 1429804.70 | 0.0984 | A        | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 506.643    | 2835724.99 | 0.1941 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.851    | 5691059.57 | 0.3811 | A        | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 2655.84    | 0.0002 | P        | 8.7  |

$$y = 3.8301\text{E-}004 * x + 1.5066\text{E-}005$$

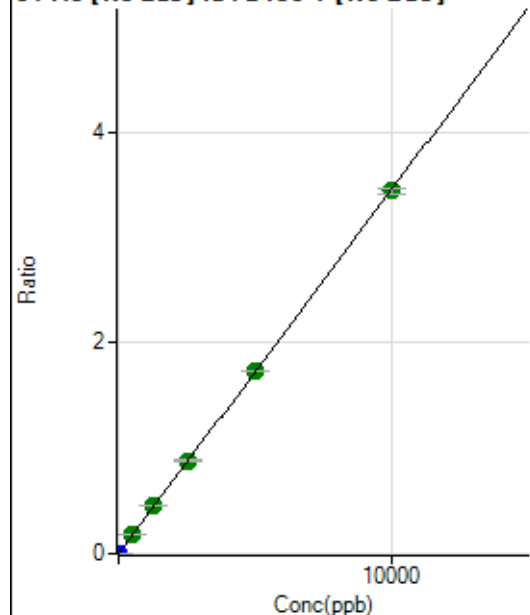
$$R = 0.9999$$

$$DL = 0.02059$$

$$BEC = 0.03934$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 415.56      | 0.0000 | P        | 4.4 |
| 2 | <input type="checkbox"/> | 5.000     | 6.112      | 31612.51    | 0.0021 | P        | 1.6 |
| 3 | <input type="checkbox"/> | 500.000   | 523.129    | 2596603.24  | 0.1805 | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1250.000  | 1317.910   | 6512220.88  | 0.4546 | A        | 1.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2559.938   | 12829560.09 | 0.8831 | A        | 1.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5015.604   | 25280912.12 | 1.7301 | A        | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9967.568   | 51349525.34 | 3.4382 | A        | 1.8 |
| 8 | <input type="checkbox"/> |           |            | 26285.99    | 0.0019 | P        | 3.4 |

$$y = 3.4494\text{E-}004 * x + 2.7999\text{E-}005$$

$$R = 1.0000$$

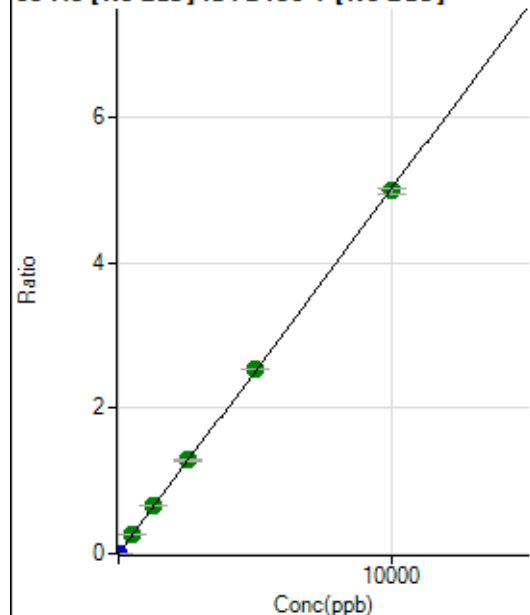
$$DL = 0.01071$$

$$BEC = 0.08117$$

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      | 156.67      | 0.0000 | P    | 27.0 |
| 2 | <input type="checkbox"/> | 5.000     | 5.088      | 37916.02    | 0.0026 | P    | 0.4  |
| 3 | <input type="checkbox"/> | 500.000   | 525.347    | 3790440.32  | 0.2635 | A    | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1314.037   | 9439239.79  | 0.6590 | A    | 0.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2561.564   | 18663044.17 | 1.2846 | A    | 1.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 5062.448   | 37095990.56 | 2.5387 | A    | 0.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9944.113   | 74475590.00 | 4.9867 | A    | 1.7  |
| 8 | <input type="checkbox"/> |           |            | 38292.59    | 0.0028 | P    | 1.8  |

$$y = 5.0147\text{E-}004 * x + 1.0555\text{E-}005$$

$$R = 0.9999$$

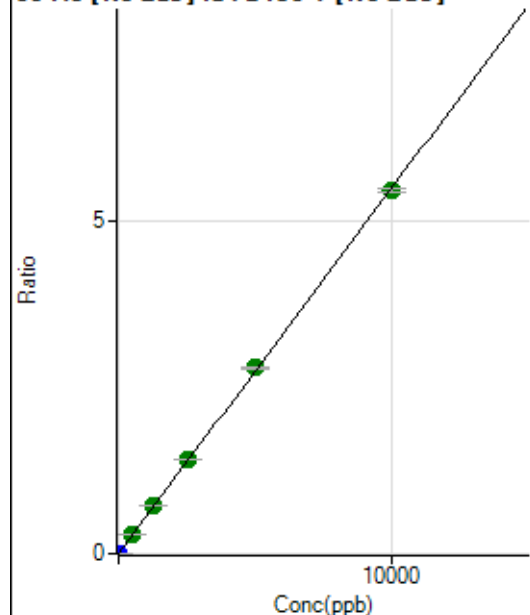
$$DL = 0.01707$$

$$BEC = 0.02105$$

Weight: &lt;None&gt;

Min Conc: 0

96 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      | 210.01      | 0.0000 | P    | 19.0 |
| 2 | <input type="checkbox"/> | 5.000     | 5.155      | 42054.47    | 0.0028 | P    | 0.8  |
| 3 | <input type="checkbox"/> | 500.000   | 521.657    | 4116675.01  | 0.2861 | A    | 1.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1317.675   | 10352975.61 | 0.7228 | A    | 1.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2564.493   | 20437089.56 | 1.4066 | A    | 0.8  |
| 6 | <input type="checkbox"/> | 5000.000  | 5087.388   | 40774545.50 | 2.7904 | A    | 0.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9930.641   | 81350119.34 | 5.4469 | A    | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 42055.71    | 0.0030 | P    | 2.4  |

$$y = 5.4850\text{E-}004 * x + 1.4149\text{E-}005$$

$$R = 0.9999$$

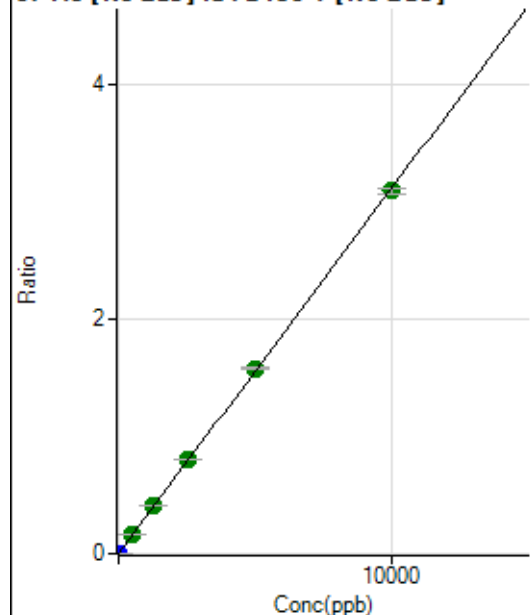
$$DL = 0.01472$$

$$BEC = 0.0258$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 90.00       | 0.0000 | P        | 26.2 |
| 2 | <input type="checkbox"/> | 5.000     | 5.148      | 23836.09    | 0.0016 | P        | 1.7  |
| 3 | <input type="checkbox"/> | 500.000   | 523.041    | 2345318.87  | 0.1630 | A        | 1.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1317.521   | 5882016.79  | 0.4106 | A        | 0.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2572.845   | 11650415.94 | 0.8019 | A        | 0.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5075.835   | 23116620.77 | 1.5820 | A        | 0.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9934.279   | 46241111.53 | 3.0962 | A        | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 22956.83    | 0.0017 | P        | 2.5  |

$$y = 3.1167\text{E-}004 * x + 6.0694\text{E-}006$$

$$R = 0.9999$$

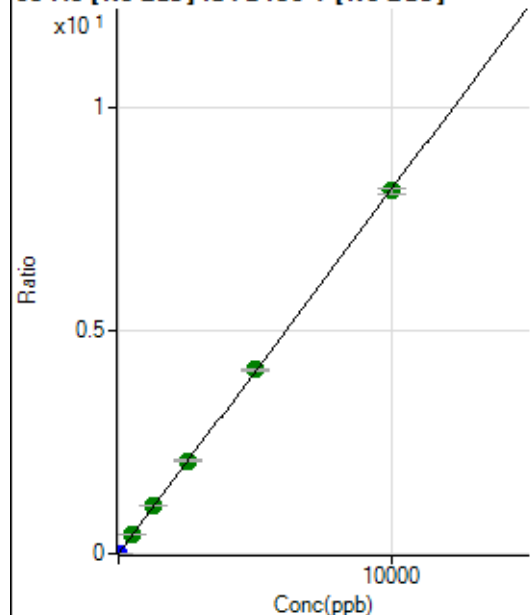
$$DL = 0.01529$$

$$BEC = 0.01947$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 234.45      | 0.0000 | P        | 10.5 |
| 2 | <input type="checkbox"/> | 5.000     | 5.036      | 61051.23    | 0.0041 | P        | 0.9  |
| 3 | <input type="checkbox"/> | 500.000   | 516.260    | 6061812.13  | 0.4213 | A        | 1.1  |
| 4 | <input type="checkbox"/> | 1250.000  | 1317.583   | 15402929.91 | 1.0753 | A        | 0.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2549.855   | 30231889.55 | 2.0810 | A        | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5040.792   | 60108115.77 | 4.1138 | A        | 1.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9957.879   | 121370937.0 | 8.1267 | A        | 1.3  |
| 8 | <input type="checkbox"/> |           |            | 58827.30    | 0.0043 | P        | 2.5  |

$$y = 8.1610\text{E-}004 * x + 1.5813\text{E-}005$$

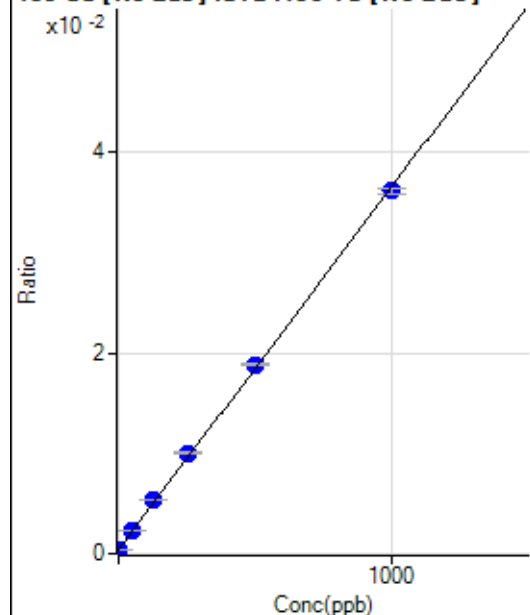
$$R = 1.0000$$

$$DL = 0.006107$$

$$BEC = 0.01938$$

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      | 4525.23   | 0.0004 | P   | 3.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.584      | 5175.47   | 0.0005 | P   | 2.8 |
| 3 | <input type="checkbox"/> | 50.000   | 53.915     | 26075.81  | 0.0024 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 137.187    | 58851.47  | 0.0054 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 265.040    | 110426.03 | 0.0100 | P   | 1.6 |
| 6 | <input type="checkbox"/> | 500.000  | 510.132    | 212477.74 | 0.0188 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 989.454    | 410572.41 | 0.0361 | P   | 1.9 |
| 8 | <input type="checkbox"/> |          |            | 4241.81   | 0.0004 | P   | 2.0 |

$$y = 3.6098\text{E-}005 * x + 4.0814\text{E-}004$$

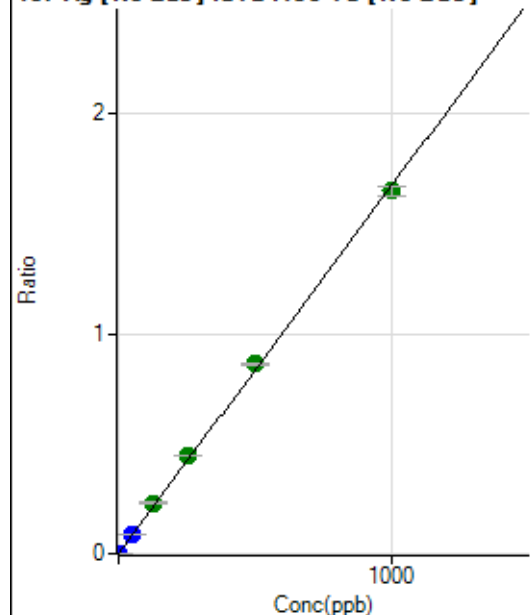
$$R = 0.9998$$

$$DL = 1.034$$

$$BEC = 11.31$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 117.78      | 0.0000 | P   | 18.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.012      | 18937.50    | 0.0017 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 50.000   | 51.762     | 958287.45   | 0.0865 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 138.488    | 2541623.56  | 0.2315 | A   | 0.9  |
| 5 | <input type="checkbox"/> | 250.000  | 266.791    | 4936615.17  | 0.4459 | A   | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 515.447    | 9725306.73  | 0.8616 | A   | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 986.305    | 18734519.86 | 1.6486 | A   | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 2974.80     | 0.0003 | P   | 8.2  |

$$y = 0.0017 * x + 1.0618\text{E-}005$$

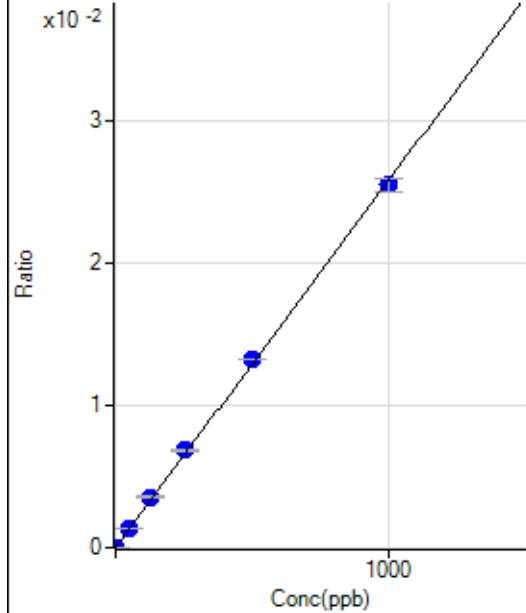
$$R = 0.9996$$

$$DL = 0.003529$$

$$BEC = 0.006353$$

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      | 20.00     | 0.0000 | P    | 29.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.096      | 334.45    | 0.0000 | P    | 7.3  |
| 3 | <input type="checkbox"/> | 50.000   | 54.571     | 15610.04  | 0.0014 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 137.313    | 38908.14  | 0.0035 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 265.233    | 75756.47  | 0.0068 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 512.289    | 149187.93 | 0.0132 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.280    | 289677.54 | 0.0255 | P    | 3.4  |
| 8 | <input type="checkbox"/> |          |            | 194.45    | 0.0000 | P    | 32.4 |

$$y = 2.5794\text{E-}005 * x + 1.8042\text{E-}006$$

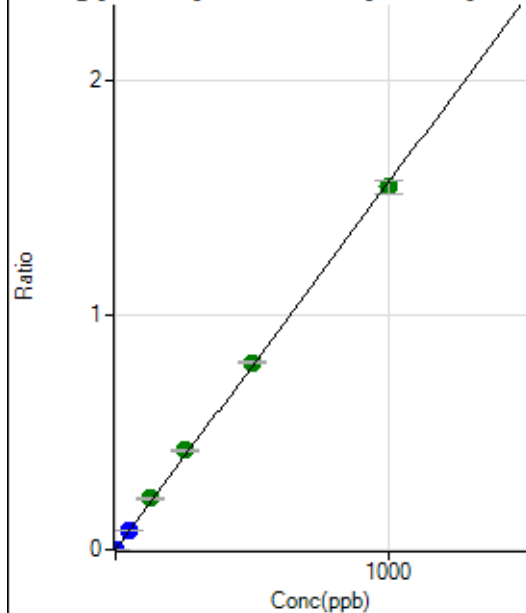
$$R = 0.9997$$

$$DL = 0.06084$$

$$BEC = 0.06994$$

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      | 41.11       | 0.0000 | P    | 71.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.025      | 17882.80    | 0.0016 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.132     | 903580.95   | 0.0816 | P    | 2.1  |
| 4 | <input type="checkbox"/> | 125.000  | 139.412    | 2395340.68  | 0.2182 | A    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 270.127    | 4679922.85  | 0.4228 | A    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 510.181    | 9013482.57  | 0.7985 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.970    | 17568714.60 | 1.5462 | A    | 3.6  |
| 8 | <input type="checkbox"/> |          |            | 2771.42     | 0.0003 | P    | 0.5  |

$$y = 0.0016 * x + 3.7156\text{E-}006$$

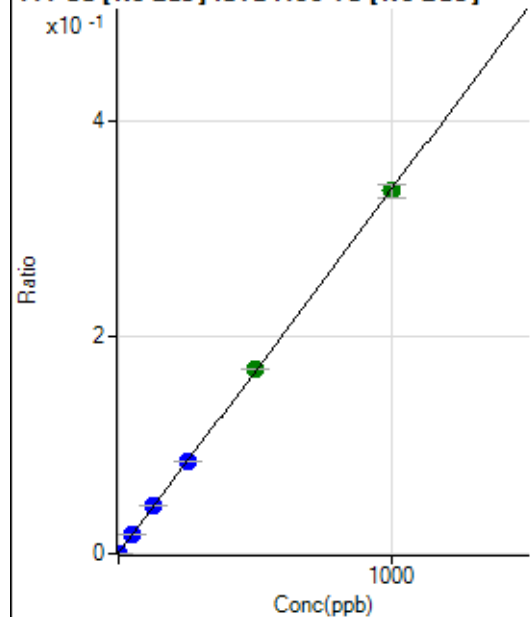
$$R = 0.9996$$

$$DL = 0.005075$$

$$BEC = 0.002374$$

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      | 3162.55    | 0.0003 | P    | 3.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.088      | 7238.18    | 0.0007 | P    | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.558     | 194931.96  | 0.0176 | P    | 1.8 |
| 4 | <input type="checkbox"/> | 125.000  | 129.918    | 482225.38  | 0.0439 | P    | 0.1 |
| 5 | <input type="checkbox"/> | 250.000  | 252.927    | 943501.30  | 0.0852 | P    | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 504.990    | 1917867.71 | 0.1699 | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.081    | 3804294.27 | 0.3348 | A    | 4.0 |
| 8 | <input type="checkbox"/> |          |            | 3822.08    | 0.0004 | P    | 0.9 |

$$y = 3.3587\text{E-}004 * x + 2.8524\text{E-}004$$

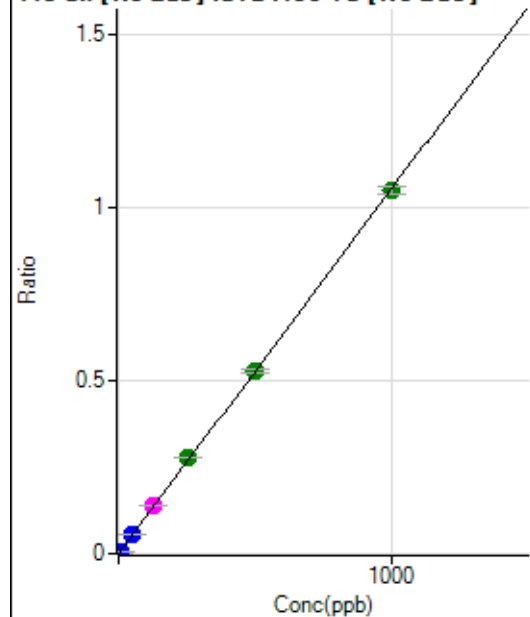
$$R = 1.0000$$

$$DL = 0.07889$$

$$BEC = 0.8493$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2621.39     | 0.0002 | P    | 2.3 |
| 2 | <input type="checkbox"/> | 5.000    | 5.374      | 65501.24    | 0.0059 | P    | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 51.077     | 597566.53   | 0.0540 | P    | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 130.788    | 1513104.65  | 0.1378 | M    | 0.5 |
| 5 | <input type="checkbox"/> | 250.000  | 264.989    | 3088229.57  | 0.2790 | A    | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 501.832    | 5961707.27  | 0.5281 | A    | 1.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.557    | 11891688.43 | 1.0464 | A    | 2.1 |
| 8 | <input type="checkbox"/> |          |            | 7075.25     | 0.0007 | P    | 5.7 |

$$y = 0.0011 * x + 2.3646\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.01543$$

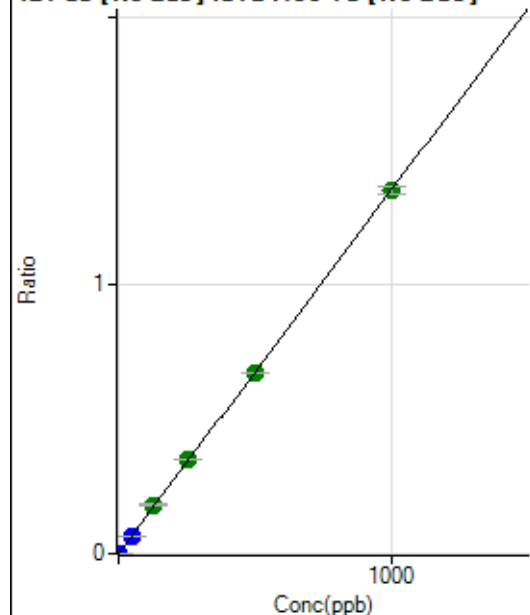
$$BEC = 0.2248$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 31.11       | 0.0000 | P   | 43.2 |
| 2 | <input type="checkbox"/> | 2.000    | 2.083      | 31410.51    | 0.0028 | P   | 0.9  |
| 3 | <input type="checkbox"/> | 50.000   | 49.752     | 746391.26   | 0.0674 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 133.949    | 1991991.60  | 0.1814 | A   | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 259.995    | 3898539.35  | 0.3522 | A   | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 498.038    | 7615756.69  | 0.6746 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.376    | 15354560.88 | 1.3510 | A   | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 6145.88     | 0.0006 | P   | 2.4  |

$$y = 0.0014 * x + 2.8060E-006$$

$$R = 0.9999$$

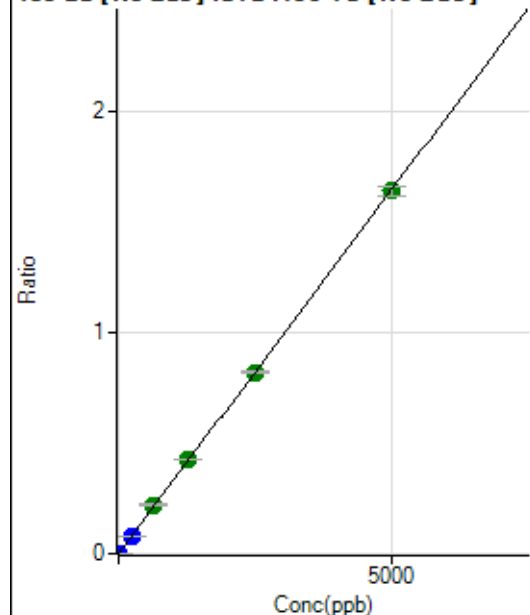
$$DL = 0.002684$$

$$BEC = 0.002071$$

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      | 170.00      | 0.0000 | P   | 7.2 |
| 2 | <input type="checkbox"/> | 10.000   | 10.274     | 37804.83    | 0.0034 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 250.000  | 247.690    | 903535.40   | 0.0816 | P   | 2.0 |
| 4 | <input type="checkbox"/> | 625.000  | 668.502    | 2417117.76  | 0.2202 | A   | 1.8 |
| 5 | <input type="checkbox"/> | 1250.000 | 1294.493   | 4719443.71  | 0.4263 | A   | 1.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2491.781   | 9263729.65  | 0.8206 | A   | 0.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 4987.664   | 18667109.86 | 1.6426 | A   | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 9539.00     | 0.0009 | P   | 4.6 |

$$y = 3.2933E-004 * x + 1.5335E-005$$

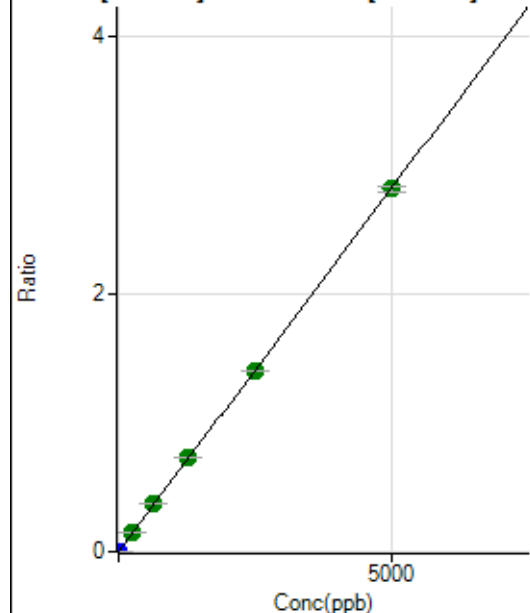
$$R = 0.9999$$

$$DL = 0.01011$$

$$BEC = 0.04656$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 193.34      | 0.0000 | P        | 15.2 |
| 2 | <input type="checkbox"/> | 10.000   | 10.479     | 66005.45    | 0.0059 | P        | 1.3  |
| 3 | <input type="checkbox"/> | 250.000  | 262.100    | 1639201.07  | 0.1480 | A        | 0.9  |
| 4 | <input type="checkbox"/> | 625.000  | 662.119    | 4104074.97  | 0.3738 | A        | 1.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1293.530   | 8084355.99  | 0.7303 | A        | 1.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2485.532   | 15841417.13 | 1.4033 | A        | 0.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4991.106   | 32028970.36 | 2.8180 | A        | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 16509.05    | 0.0016 | P        | 3.0  |

$$y = 5.6460E-004 * x + 1.7446E-005$$

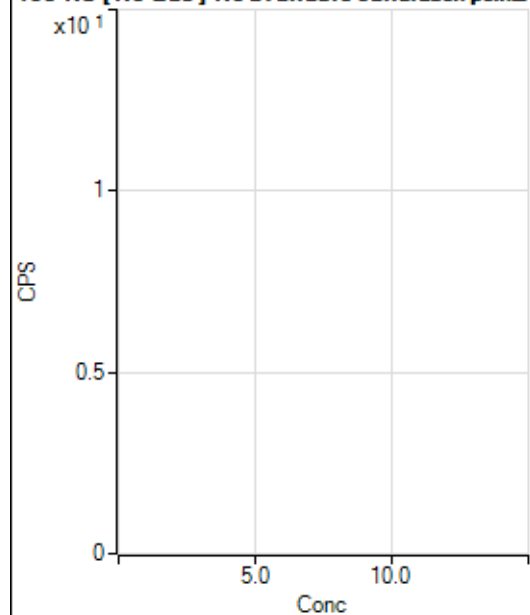
$$R = 0.9999$$

$$DL = 0.01406$$

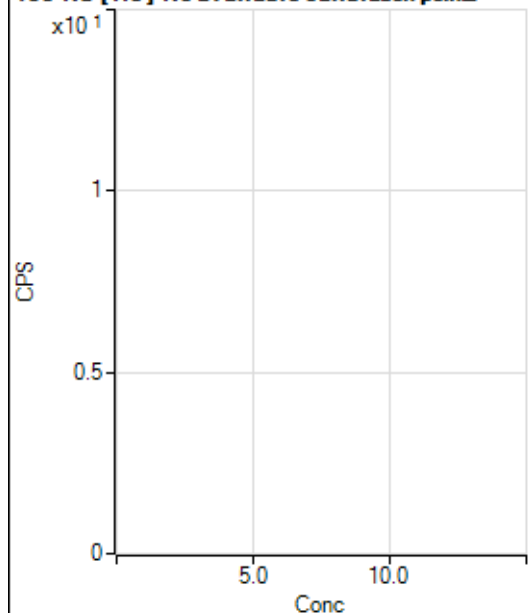
$$BEC = 0.0309$$

Weight: &lt;None&gt;

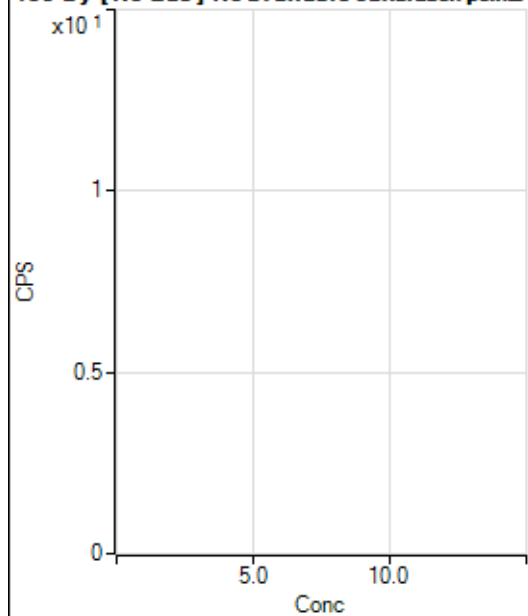
Min Conc: 0

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

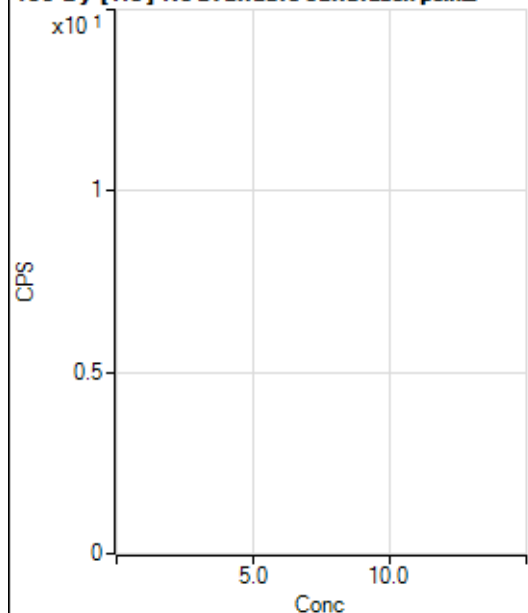
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4.44    |       | P        | 43.4 |
| 2 | <input type="checkbox"/> |       |            | 10.00   |       | P        | 33.3 |
| 3 | <input type="checkbox"/> |       |            | 90.00   |       | P        | 19.6 |
| 4 | <input type="checkbox"/> |       |            | 192.23  |       | P        | 7.8  |
| 5 | <input type="checkbox"/> |       |            | 346.68  |       | P        | 11.1 |
| 6 | <input type="checkbox"/> |       |            | 613.36  |       | P        | 12.7 |
| 7 | <input type="checkbox"/> |       |            | 1311.19 |       | P        | 2.7  |
| 8 | <input type="checkbox"/> |       |            | 382.23  |       | P        | 3.9  |

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

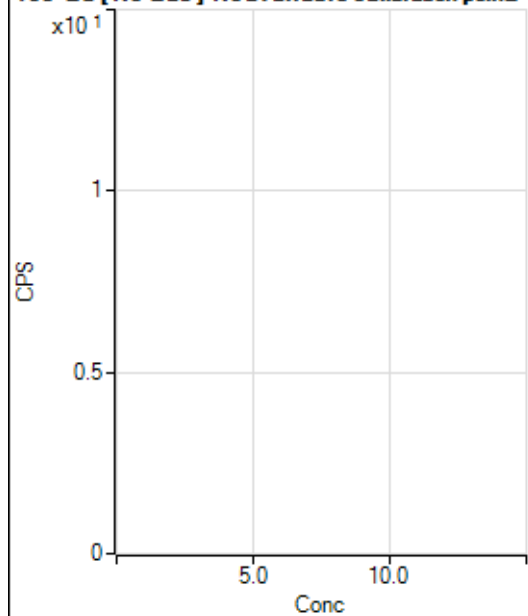
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 3 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 4 | <input type="checkbox"/> |       |            | 1.11  |       | P        | 173. |
| 5 | <input type="checkbox"/> |       |            | 14.45 |       | P        | 48.0 |
| 6 | <input type="checkbox"/> |       |            | 18.89 |       | P        | 27.0 |
| 7 | <input type="checkbox"/> |       |            | 78.89 |       | P        | 21.3 |
| 8 | <input type="checkbox"/> |       |            | 71.11 |       | P        | 19.5 |

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

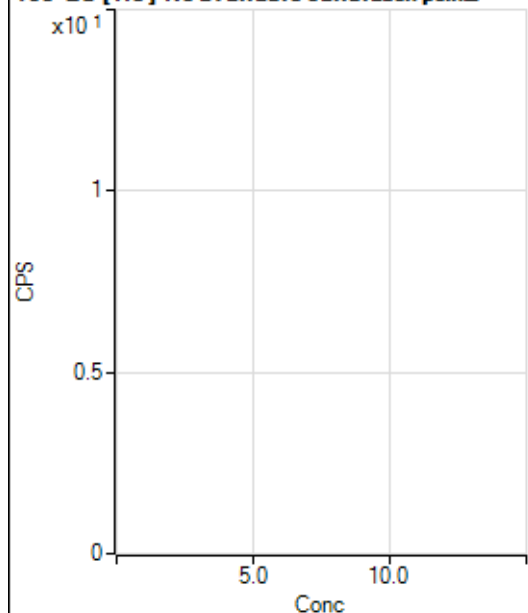
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 192.22 |       | P        | 10.6 |
| 2 | <input type="checkbox"/> |       |            | 221.12 |       | P        | 7.0  |
| 3 | <input type="checkbox"/> |       |            | 267.78 |       | P        | 20.9 |
| 4 | <input type="checkbox"/> |       |            | 315.56 |       | P        | 16.2 |
| 5 | <input type="checkbox"/> |       |            | 302.23 |       | P        | 19.6 |
| 6 | <input type="checkbox"/> |       |            | 334.45 |       | P        | 15.5 |
| 7 | <input type="checkbox"/> |       |            | 560.02 |       | P        | 6.3  |
| 8 | <input type="checkbox"/> |       |            | 626.69 |       | P        | 3.8  |

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

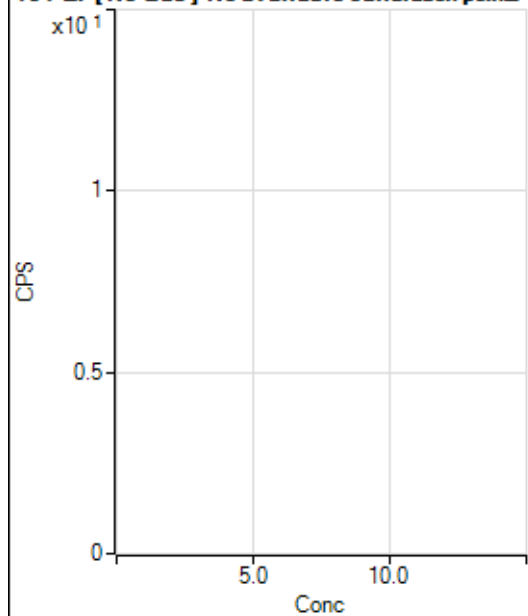
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 100. |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 132. |
| 3 | <input type="checkbox"/> |       |            | 11.11  |       | P        | 45.8 |
| 4 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 66.7 |
| 5 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 62.3 |
| 6 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 75.5 |
| 7 | <input type="checkbox"/> |       |            | 73.33  |       | P        | 31.8 |
| 8 | <input type="checkbox"/> |       |            | 153.34 |       | P        | 19.6 |

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

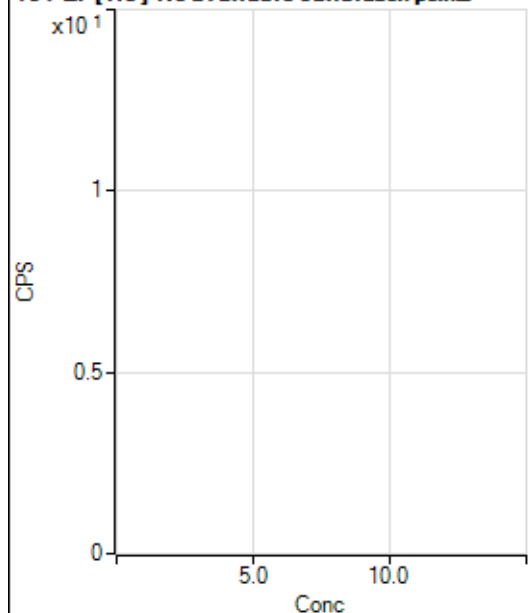
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 41.11  |       | P        | 40.0 |
| 2 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 18.3 |
| 3 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 2.7  |
| 4 | <input type="checkbox"/> |       |            | 46.67  |       | P        | 62.3 |
| 5 | <input type="checkbox"/> |       |            | 85.56  |       | P        | 13.7 |
| 6 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 5.0  |
| 7 | <input type="checkbox"/> |       |            | 193.34 |       | P        | 14.7 |
| 8 | <input type="checkbox"/> |       |            | 453.35 |       | P        | 8.0  |

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

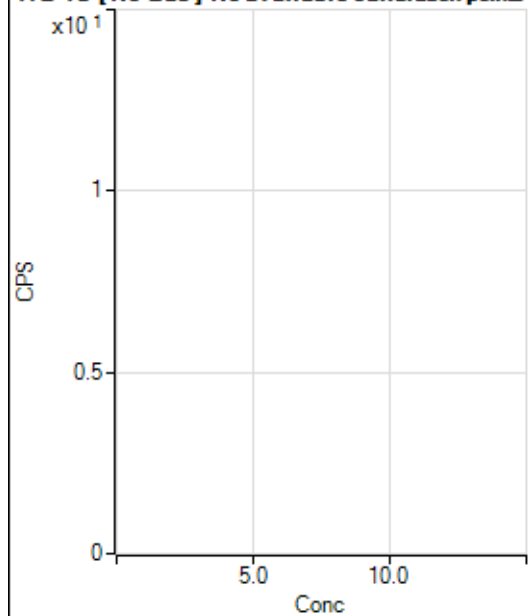
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 20.0 |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 114. |
| 3 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 72.1 |
| 4 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 20.0 |
| 5 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 53.9 |
| 6 | <input type="checkbox"/> |       |            | 41.11  |       | P        | 20.4 |
| 7 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 22.1 |
| 8 | <input type="checkbox"/> |       |            | 146.67 |       | P        | 18.0 |

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

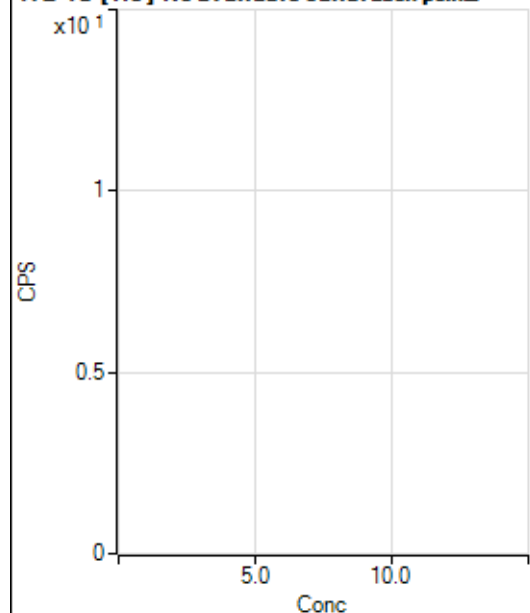
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 7.0  |
| 2 | <input type="checkbox"/> |       |            | 72.22  |       | P        | 19.2 |
| 3 | <input type="checkbox"/> |       |            | 73.34  |       | P        | 20.8 |
| 4 | <input type="checkbox"/> |       |            | 92.22  |       | P        | 24.1 |
| 5 | <input type="checkbox"/> |       |            | 128.89 |       | P        | 5.4  |
| 6 | <input type="checkbox"/> |       |            | 172.23 |       | P        | 11.0 |
| 7 | <input type="checkbox"/> |       |            | 330.01 |       | P        | 2.7  |
| 8 | <input type="checkbox"/> |       |            | 624.46 |       | P        | 12.5 |

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

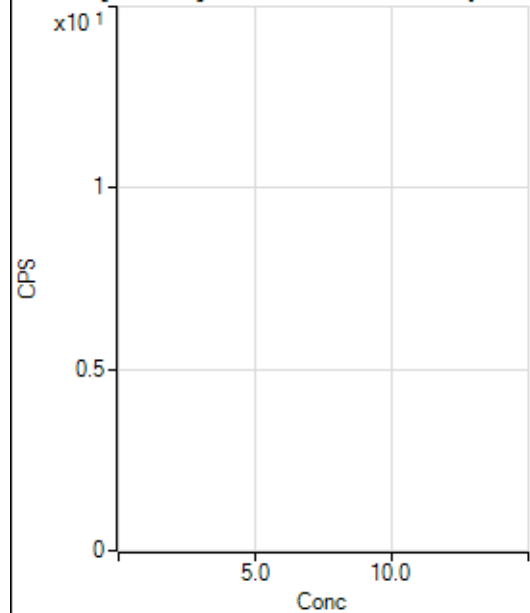
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 15.56  |       | P        | 32.7 |
| 2 | <input type="checkbox"/> |       |            | 35.56  |       | P        | 21.6 |
| 3 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 42.9 |
| 4 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 25.0 |
| 5 | <input type="checkbox"/> |       |            | 36.67  |       | P        | 9.1  |
| 6 | <input type="checkbox"/> |       |            | 54.44  |       | P        | 21.5 |
| 7 | <input type="checkbox"/> |       |            | 93.33  |       | P        | 28.4 |
| 8 | <input type="checkbox"/> |       |            | 206.67 |       | P        | 5.6  |

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

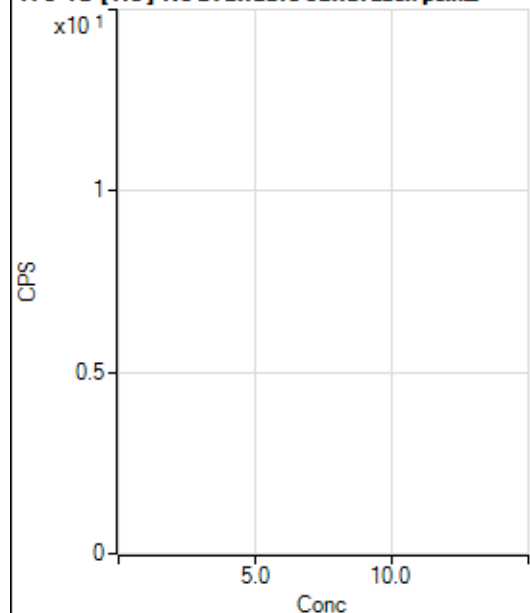
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 34.44   |       | P        | 49.7 |
| 2 | <input type="checkbox"/> |       |            | 33.33   |       | P        | 40.0 |
| 3 | <input type="checkbox"/> |       |            | 53.33   |       | P        | 28.6 |
| 4 | <input type="checkbox"/> |       |            | 66.67   |       | P        | 8.7  |
| 5 | <input type="checkbox"/> |       |            | 106.67  |       | P        | 8.3  |
| 6 | <input type="checkbox"/> |       |            | 192.23  |       | P        | 9.5  |
| 7 | <input type="checkbox"/> |       |            | 271.12  |       | P        | 4.7  |
| 8 | <input type="checkbox"/> |       |            | 1021.16 |       | P        | 4.5  |

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

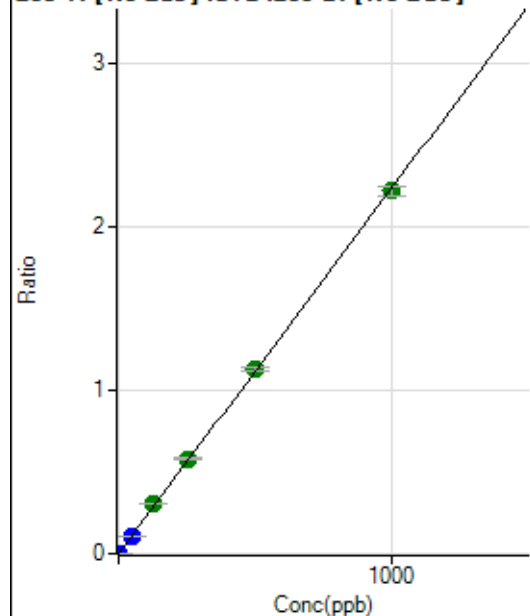
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 14.44  |       | P        | 35.3 |
| 2 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 13.33  |       | P        | 25.0 |
| 4 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 44.1 |
| 5 | <input type="checkbox"/> |       |            | 35.55  |       | P        | 30.1 |
| 6 | <input type="checkbox"/> |       |            | 65.56  |       | P        | 23.5 |
| 7 | <input type="checkbox"/> |       |            | 124.45 |       | P        | 1.5  |
| 8 | <input type="checkbox"/> |       |            | 368.90 |       | P        | 7.2  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 1210.07  |       | P        | 3.8 |
| 2 | <input type="checkbox"/> |       |            | 1187.85  |       | P        | 9.4 |
| 3 | <input type="checkbox"/> |       |            | 4468.58  |       | P        | 2.1 |
| 4 | <input type="checkbox"/> |       |            | 9682.53  |       | P        | 1.8 |
| 5 | <input type="checkbox"/> |       |            | 17878.88 |       | P        | 2.0 |
| 6 | <input type="checkbox"/> |       |            | 34513.97 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> |       |            | 68136.66 |       | P        | 1.4 |
| 8 | <input type="checkbox"/> |       |            | 1732.35  |       | P        | 3.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|----------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 210.01   |       | P        | 18.0 |
| 2 | <input type="checkbox"/> |       |            | 231.12   |       | P        | 2.2  |
| 3 | <input type="checkbox"/> |       |            | 1275.63  |       | P        | 4.2  |
| 4 | <input type="checkbox"/> |       |            | 2833.67  |       | P        | 2.8  |
| 5 | <input type="checkbox"/> |       |            | 5749.08  |       | P        | 2.3  |
| 6 | <input type="checkbox"/> |       |            | 10915.70 |       | P        | 1.5  |
| 7 | <input type="checkbox"/> |       |            | 21841.47 |       | P        | 1.1  |
| 8 | <input type="checkbox"/> |       |            | 398.90   |       | P        | 10.6 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 107.78      | 0.0000 | P        | 4.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.969      | 15383.67    | 0.0022 | P        | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 48.853     | 752273.16   | 0.1090 | P        | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 134.618    | 2048851.93  | 0.3004 | A        | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 259.484    | 3988099.39  | 0.5791 | A        | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 506.223    | 7815244.54  | 1.1298 | A        | 2.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.372    | 15203130.47 | 2.2169 | A        | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 1062.28     | 0.0002 | P        | 9.5 |

$$y = 0.0022 * x + 1.5245E-005$$

$$R = 0.9999$$

$$DL = 0.0009508$$

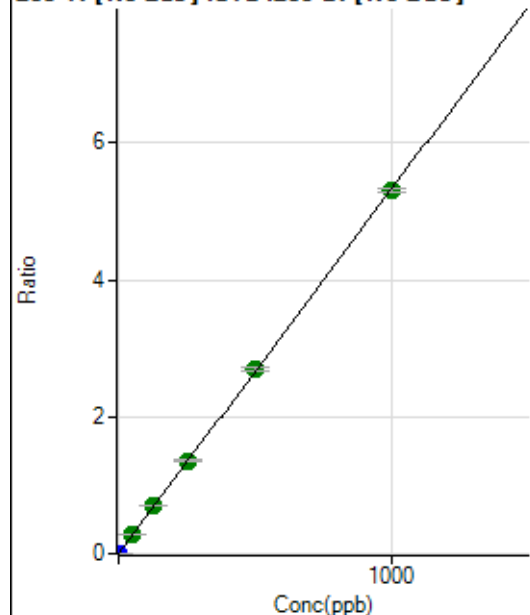
$$BEC = 0.006831$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 333.34      | 0.0000 | P    | 3.5  |
| 2 | <input type="checkbox"/> | 1.000    | 0.969      | 36734.12    | 0.0052 | P    | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.886     | 1905353.41  | 0.2762 | A    | 2.2  |
| 4 | <input type="checkbox"/> | 125.000  | 132.635    | 4814284.48  | 0.7060 | A    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 254.891    | 9342408.82  | 1.3566 | A    | 1.7  |
| 6 | <input type="checkbox"/> | 500.000  | 505.234    | 18602521.25 | 2.6890 | A    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.112    | 36325914.73 | 5.2963 | A    | 1.2  |
| 8 | <input type="checkbox"/> |          |            | 2562.51     | 0.0004 | P    | 16.0 |

$$y = 0.0053 * x + 4.7151E-005$$

$$R = 0.9999$$

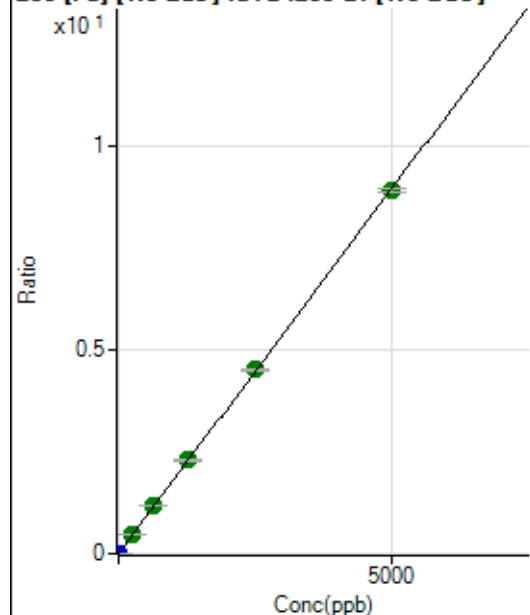
$$DL = 0.0009396$$

$$BEC = 0.008859$$

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      | 685.58      | 0.0001 | P    | 8.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.987      | 13146.75    | 0.0019 | P    | 1.1 |
| 3 | <input type="checkbox"/> | 250.000  | 263.401    | 3250698.77  | 0.4712 | A    | 1.2 |
| 4 | <input type="checkbox"/> | 625.000  | 658.722    | 8034330.85  | 1.1782 | A    | 1.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1279.926   | 15764331.02 | 2.2892 | A    | 1.3 |
| 6 | <input type="checkbox"/> | 2500.000 | 2526.492   | 31260627.31 | 4.5186 | A    | 1.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 4974.387   | 61018404.09 | 8.8965 | A    | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 9054.34     | 0.0016 | P    | 5.5 |

$$y = 0.0018 * x + 9.6981E-005$$

$$R = 0.9999$$

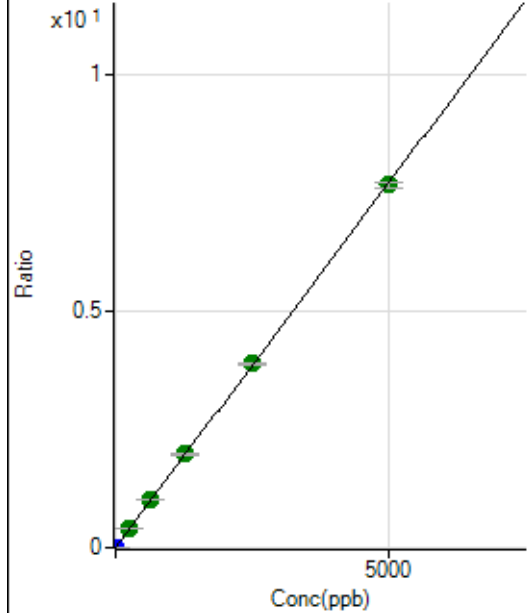
$$DL = 0.01408$$

$$BEC = 0.05423$$

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      | 547.80      | 0.0001 | P   | 13.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 11307.23    | 0.0016 | P   | 1.4  |
| 3 | <input type="checkbox"/> | 250.000  | 264.939    | 2812831.90  | 0.4077 | A   | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 664.981    | 6977923.23  | 1.0233 | A   | 1.5  |
| 5 | <input type="checkbox"/> | 1250.000 | 1281.854   | 13582848.27 | 1.9724 | A   | 1.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2520.396   | 26828696.27 | 3.8781 | A   | 1.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4976.094   | 52513004.77 | 7.6566 | A   | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 7762.40     | 0.0013 | P   | 5.0  |

$$y = 0.0015 * x + 7.7477E-005$$

$$R = 0.9999$$

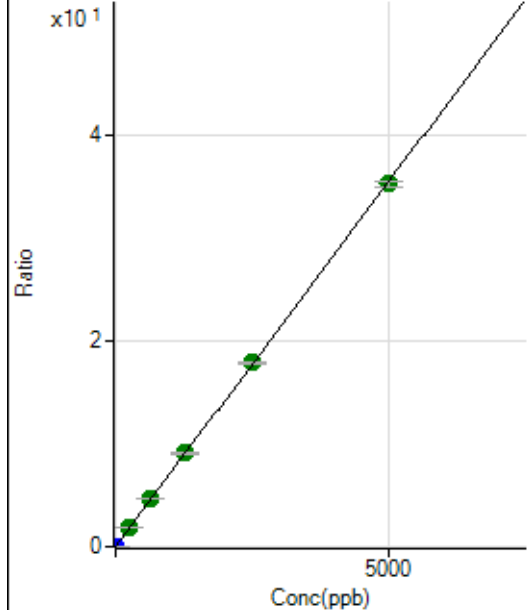
$$DL = 0.02023$$

$$BEC = 0.05035$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2637.91     | 0.0004  | P   | 2.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.981      | 51757.21    | 0.0073  | P   | 0.7 |
| 3 | <input type="checkbox"/> | 250.000  | 262.651    | 12848619.25 | 1.8624  | A   | 1.6 |
| 4 | <input type="checkbox"/> | 625.000  | 661.836    | 31999669.10 | 4.6925  | A   | 0.9 |
| 5 | <input type="checkbox"/> | 1250.000 | 1282.542   | 62619873.79 | 9.0930  | A   | 1.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2526.904   | 123942925.3 | 17.9149 | A   | 1.1 |
| 7 | <input type="checkbox"/> | 5000.000 | 4973.176   | 241816613.6 | 35.2578 | A   | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 36068.92    | 0.0062  | P   | 4.0 |

$$y = 0.0071 * x + 3.7314E-004$$

$$R = 0.9999$$

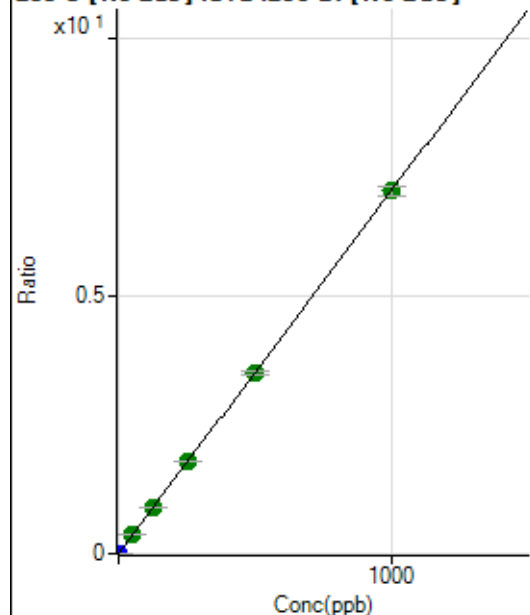
$$DL = 0.004276$$

$$BEC = 0.05263$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 67.78       | 0.0000 | P    | 44.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.943      | 46983.06    | 0.0067 | P    | 1.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.020     | 2479564.41  | 0.3594 | A    | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.880    | 6191356.85  | 0.9079 | A    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.943    | 12319954.68 | 1.7889 | A    | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 498.233    | 24281247.42 | 3.5098 | A    | 1.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.362    | 48278431.50 | 7.0399 | A    | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 1915.73     | 0.0003 | P    | 18.1 |

$$y = 0.0070 * x + 9.5844E-006$$

$$R = 1.0000$$

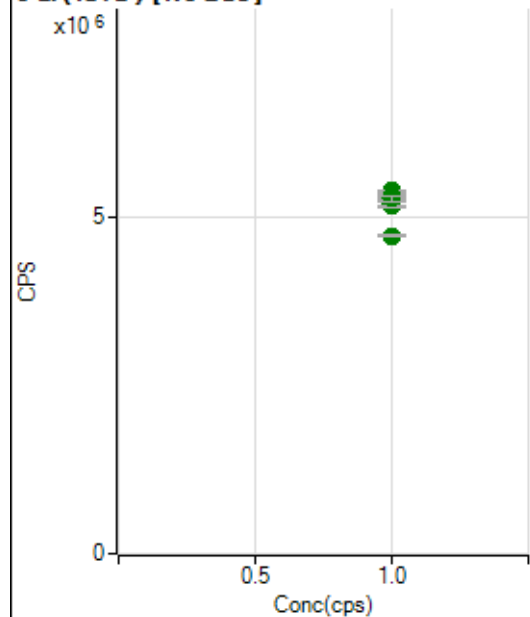
$$DL = 0.001819$$

$$BEC = 0.001361$$

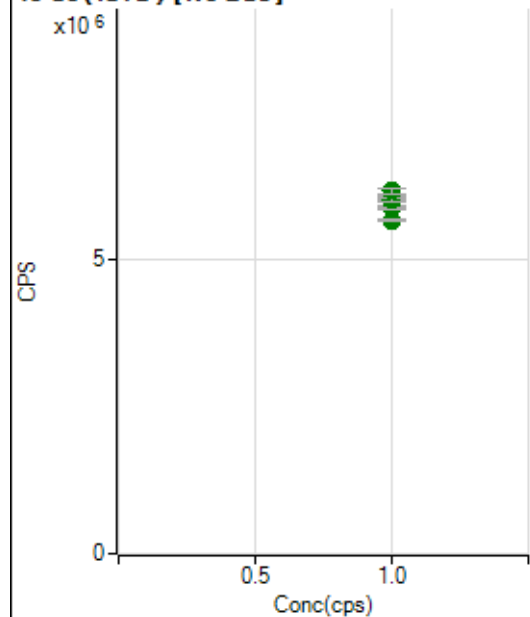
Weight: &lt;None&gt;

Min Conc: 0

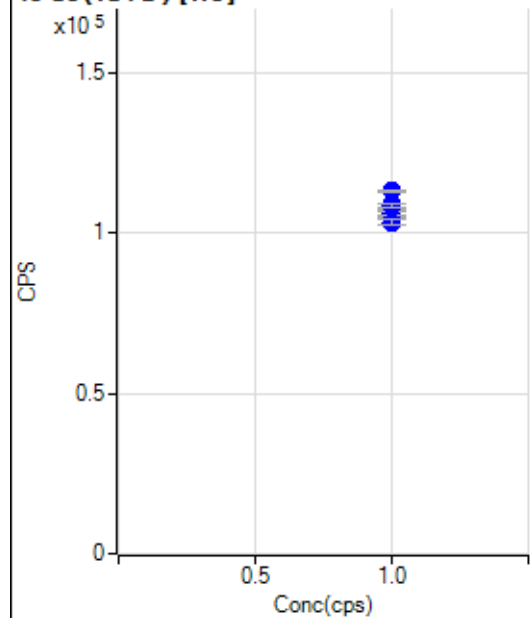
6 Li (ISTD) [No Gas]



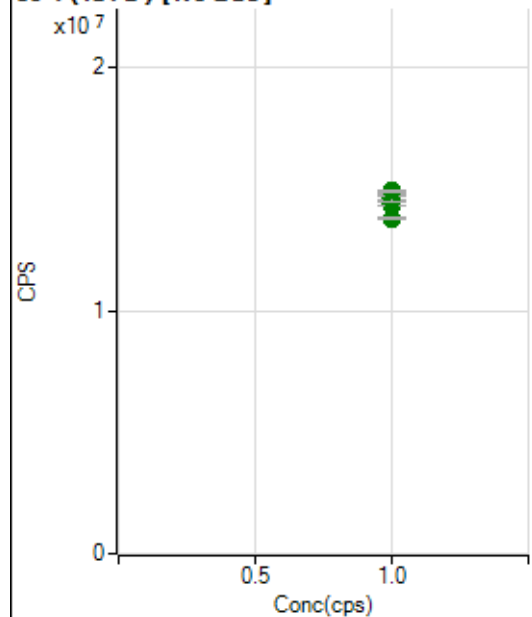
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5335369.60 |       | A    | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5390743.51 |       | A    | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5199383.42 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5165700.86 |       | A    | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5279912.36 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5320794.13 |       | A    | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5280284.45 |       | A    | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4727634.94 |       | A    | 0.9 |

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

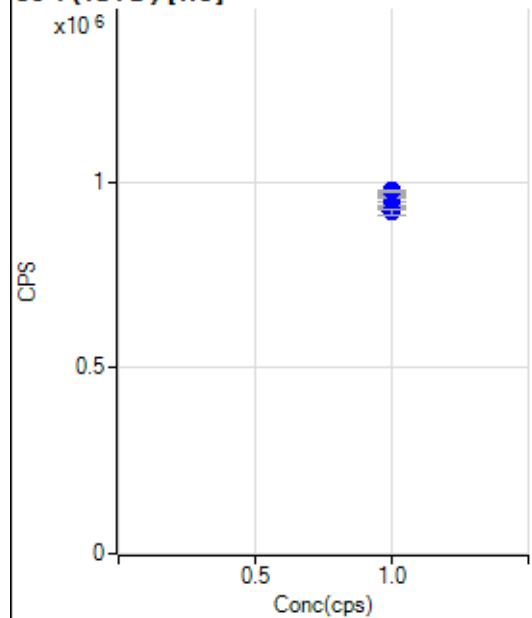
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6062475.81 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6067088.59 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5895420.75 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5864343.18 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5986884.91 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6008128.66 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6155072.13 |       | A        | 1.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5644915.12 |       | A        | 0.6 |

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

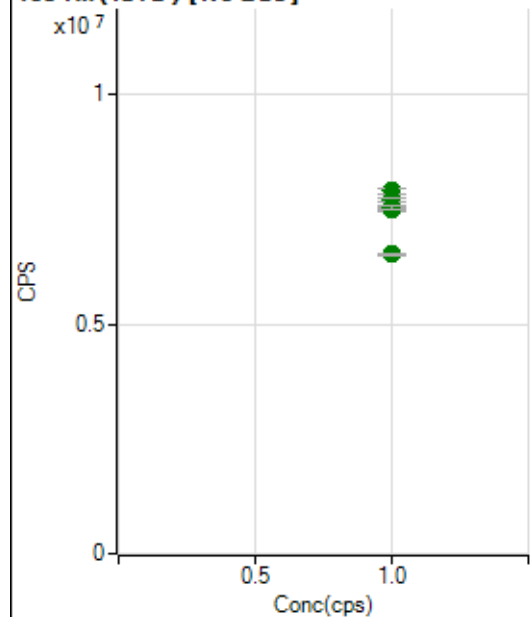
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 109168.33 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 107925.94 |       | P        | 1.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 104795.49 |       | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 104682.03 |       | P        | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 106047.72 |       | P        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 108451.76 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 113025.43 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 103191.34 |       | P        | 1.7 |

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

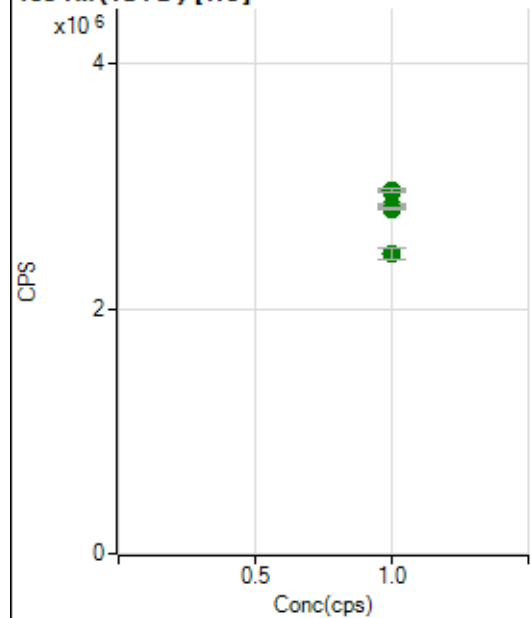
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14836804.08 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14798915.47 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14387937.56 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14324336.59 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14529540.76 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14612521.31 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14935288.80 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13793980.63 |       | A        | 0.7 |

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

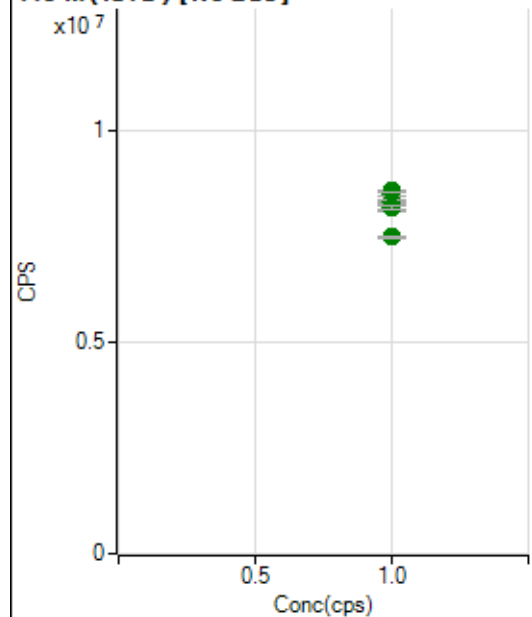
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 966985.64 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 970398.77 |       | P        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 935815.01 |       | P        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 936254.29 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 954538.81 |       | P        | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 958106.13 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 976031.32 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 918708.68 |       | P        | 2.1 |

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

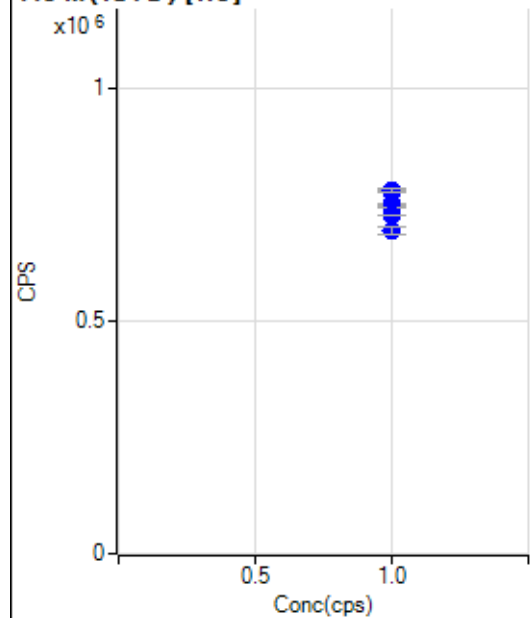
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7907876.69 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7839692.94 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7704628.56 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7506119.33 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7556790.79 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7526667.18 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7550511.13 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6520715.18 |       | A        | 0.8 |

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

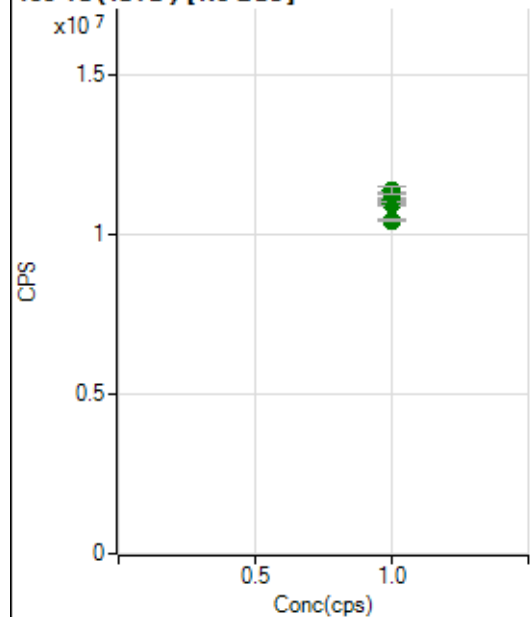
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2953481.66 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2960768.67 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2825145.24 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2841977.11 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2819451.00 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2832373.88 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2812665.72 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2444190.85 |       | A        | 3.8 |

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

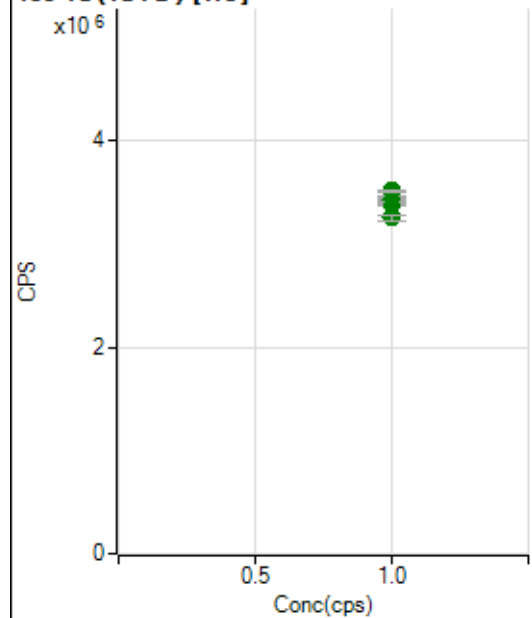
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8576943.45 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8506892.69 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8335148.72 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8253857.58 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8301902.43 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8170692.03 |       | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8177791.01 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7482269.54 |       | A        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 779091.72 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 779965.83 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 750574.12 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 744097.89 |       | P        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 750570.22 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 744380.73 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 727341.28 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 694014.10 |       | P        | 2.0 |

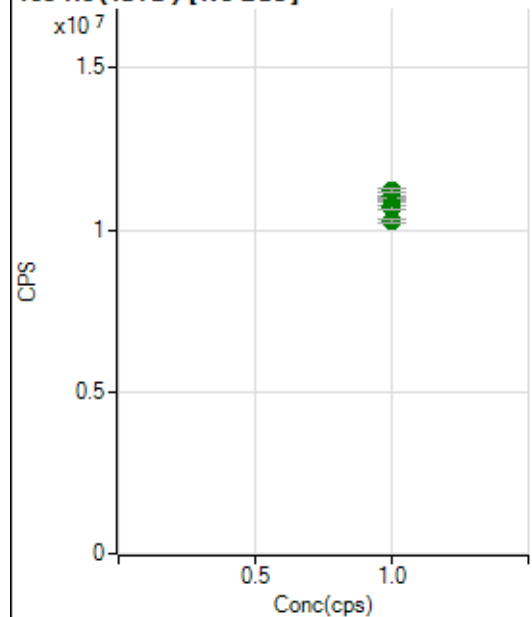
**159 Tb (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11086848.72 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11123089.83 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11076954.56 |       | A        | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10979553.03 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11070668.86 |       | A        | 1.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11288469.69 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11368452.19 |       | A        | 2.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10435772.56 |       | A        | 0.7 |

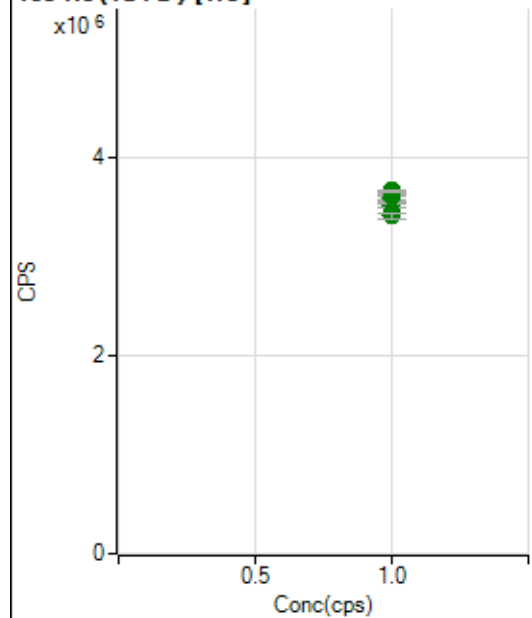
**159 Tb (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3420322.07 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3448722.93 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3400187.83 |       | A        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3410376.62 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3434829.67 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3460742.55 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3516546.72 |       | A        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3252800.26 |       | A        | 2.0 |

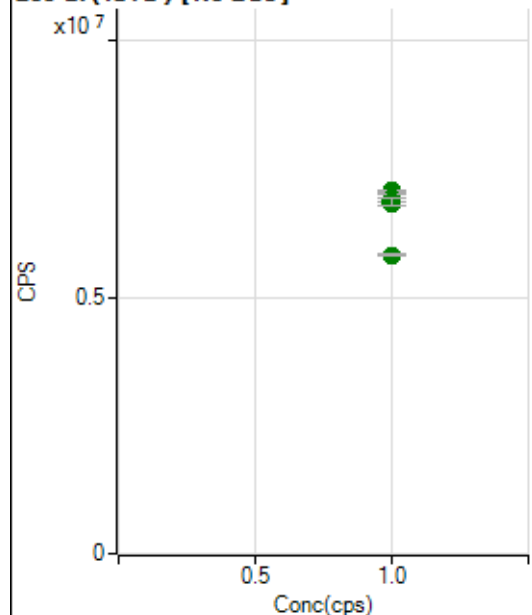


**165 Ho (ISTD) [No Gas]**

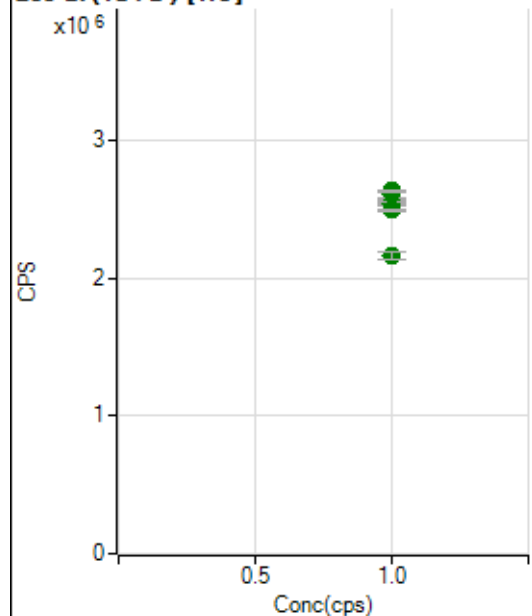
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10941233.86 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10967289.14 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10680129.29 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10750887.96 |       | A        | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11004333.86 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11063674.84 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11198653.03 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10273645.13 |       | A        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3626290.78 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3587395.71 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3510529.22 |       | A        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3539732.79 |       | A        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3609647.86 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3637521.54 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3658813.18 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3408017.90 |       | A        | 1.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7069611.35 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7061116.01 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6899631.91 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6819518.58 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6887038.65 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6919456.70 |       | A        | 2.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6859643.51 |       | A        | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5826118.11 |       | A        | 0.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2602709.11 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2629630.46 |       | A        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2541593.68 |       | A        | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2540876.87 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2528561.65 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2534704.23 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2490401.79 |       | A        | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2157591.95 |       | A        | 2.3 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8030425MS.b

Acq. Date-Time 2025-03-04 11:57:51

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 29905  | 299048.02  |                            |             | 0.120  | 5.000           |
| 24   |              | 562456 | 5624555.64 |                            |             | 0.726  | 5.000           |
| 25   |              | 74801  | 748007.79  |                            |             | 0.782  | 5.000           |
| 26   |              | 86388  | 863875.96  |                            |             | 0.593  | 5.000           |
| 59   |              | 150150 | 1501503.18 |                            |             | 0.425  | 5.000           |
| 113  |              | 17486  | 174858.06  |                            |             | 0.383  | 5.000           |
| 115  |              | 226382 | 2263817.40 |                            |             | 0.483  | 5.000           |
| 206  |              | 54768  | 547675.97  |                            |             | 0.430  | 5.000           |
| 207  |              | 47094  | 470936.67  |                            |             | 0.227  | 5.000           |
| 208  |              | 121711 | 1217113.84 |                            |             | 0.685  | 5.000           |
| 220  |              | 0      | 4.20       |                            |             | 31.044 |                 |

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

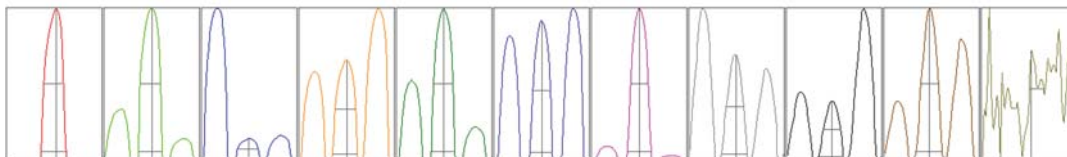
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 29931       | 29942       | 29916       | 29880       | 29856       |
| 24   | 562982      | 569204      | 558554      | 560817      | 560721      |
| 25   | 74472       | 74911       | 75630       | 74063       | 74928       |
| 26   | 86696       | 85941       | 86785       | 85727       | 86789       |
| 59   | 150018      | 149377      | 151122      | 150301      | 149933      |
| 113  | 17481       | 17564       | 17541       | 17439       | 17405       |
| 115  | 227101      | 227489      | 226259      | 226415      | 224644      |
| 206  | 54837       | 54846       | 55028       | 54736       | 54391       |
| 207  | 47147       | 47235       | 47111       | 46975       | 47001       |
| 208  | 122895      | 121095      | 121207      | 121071      | 122289      |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 52830.65    | 9.10   | 8.90 - 9.10     |             |
| 24   | 939632.17   | 24.05  | 23.90 - 24.10   |             |
| 25   | 125944.01   | 25.00  | 24.90 - 25.10   |             |
| 26   | 143604.71   | 26.05  | 25.90 - 26.10   |             |
| 59   | 264089.78   | 59.00  | 58.90 - 59.10   |             |
| 113  | 33846.07    | 113.05 | 112.90 - 113.10 |             |
| 115  | 436428.51   | 115.05 | 114.90 - 115.10 |             |
| 206  | 103650.24   | 206.00 | 205.90 - 206.10 |             |
| 207  | 90421.16    | 206.95 | 206.90 - 207.10 |             |
| 208  | 232819.20   | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.75        | 220.10 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.61  | 0.777 | 0.900           |             |
| 24   | 0.64  | 0.741 | 0.900           |             |
| 25   | 0.63  | 0.742 | 0.900           |             |
| 26   | 0.64  | 0.784 | 0.900           |             |
| 59   | 0.60  | 0.738 | 0.900           |             |
| 113  | 0.54  | 0.687 | 0.900           |             |
| 115  | 0.54  | 0.730 | 0.900           |             |
| 206  | 0.54  | 0.811 | 0.900           |             |
| 207  | 0.54  | 0.776 | 0.900           |             |
| 208  | 0.55  | 0.817 | 0.900           |             |
| 220  | 0.46  |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.72 L/min Dilution Gas 0.40 L/min

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 7.8 V | Deflect    | 14.6 V |
| Extract 2  | -160.0 V | Cell Entrance | -30 V | Plate Bias | -50 V  |
| Omega Bias | -75 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

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

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 103 | Axis Gain   | 0.9960 | QP Bias | -4.0 V |
| Mass Offset | 126 | Axis Offset | 0.08   |         |        |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.2 mm | Torch V | 1.4 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.1 mV | Analog HV | 2217 V | Pulse HV | 1120 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 27261 | 272608.41 |                            |             | 2.871 |                 |
| 89   |              | 56930 | 569304.03 |                            |             | 3.159 |                 |
| 205  |              | 31369 | 313688.66 |                            |             | 1.523 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 28588       | 27217       | 26857       | 27081       | 26561       |
| 89   | 59974       | 56882       | 55416       | 56569       | 55811       |
| 205  | 32178       | 31331       | 31116       | 31279       | 30939       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.72 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 | -6.0 V | Omega Lens | 7.8 V | Deflect | 2.4 V |
|-----------|--------|------------|-------|---------|-------|

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|                   |            |               |         |                       |         |
|-------------------|------------|---------------|---------|-----------------------|---------|
| Extract 2         | -160.0 V   | Cell Entrance | -50 V   | Plate Bias            | -60 V   |
| Omega Bias        | -75 V      | Cell Exit     | -70 V   |                       |         |
| Cell Parameters   |            |               |         |                       |         |
| Use Gas           | Yes        | 3rd Gas Flow  | ---     | Energy Discrimination | 5.0 V   |
| He Flow           | 4.5 mL/min | OctP Bias     | -18.0 V |                       |         |
| H2 Flow           | ---        | OctP RF       | 200 V   |                       |         |
| QP Parameters     |            |               |         |                       |         |
| Mass Gain         | 103        | Axis Gain     | 0.9960  | QP Bias               | -13.0 V |
| Mass Offset       | 126        | Axis Offset   | 0.08    |                       |         |
| Hardware Settings |            |               |         |                       |         |
| Torch             |            |               |         |                       |         |
| Torch H           | -0.2 mm    | Torch V       | 1.4 mm  |                       |         |
| EM                |            |               |         |                       |         |
| Discriminator     | 4.1 mV     | Analog HV     | 2217 V  | Pulse HV              | 1120 V  |