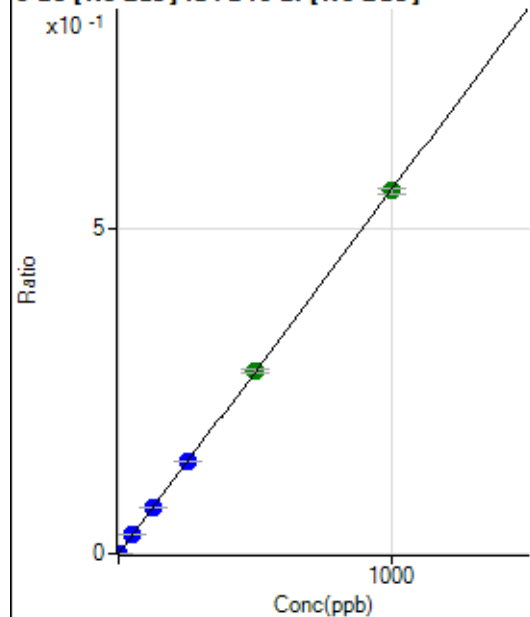


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7102722-MS.b\  
Analysis File: P7102722-MS.batch.bin  
DA Date-Time: 2022-10-27 18:12:11  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2022-10-27 11:44:57 |
| 2     | 005CALS.d          | S02         | 2022-10-27 11:47:48 |
| 3     | 006CALS.d          | S03         | 2022-10-27 11:50:42 |
| 4     | 007CALS.d          | S04         | 2022-10-27 11:54:22 |
| 5     | 009CALS.d          | S05         | 2022-10-27 12:00:51 |
| 6     | 010CALS.d          | S06         | 2022-10-27 12:03:37 |
| 7     | 011CALS.d          | S07         | 2022-10-27 12:06:22 |
| 8     | 012CALS.d          | S08         | 2022-10-27 12:09:08 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.22     | 0.0000 | P       | 3.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.998      | 2319.09    | 0.0006 | P       | 4.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.616     | 114949.33  | 0.0288 | P       | 0.3 |
| 4 | <input type="checkbox"/> | 125.000  | 126.326    | 278037.49  | 0.0706 | P       | 3.0 |
| 5 | <input type="checkbox"/> | 250.000  | 254.262    | 539950.77  | 0.1420 | P       | 1.5 |
| 6 | <input type="checkbox"/> | 500.000  | 502.465    | 1073432.47 | 0.2806 | A       | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.456    | 2074226.41 | 0.5569 | A       | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 773.36     | 0.0002 | P       | 9.0 |

$$y = 5.5833\text{E-}004 * x + 2.6080\text{E-}005$$

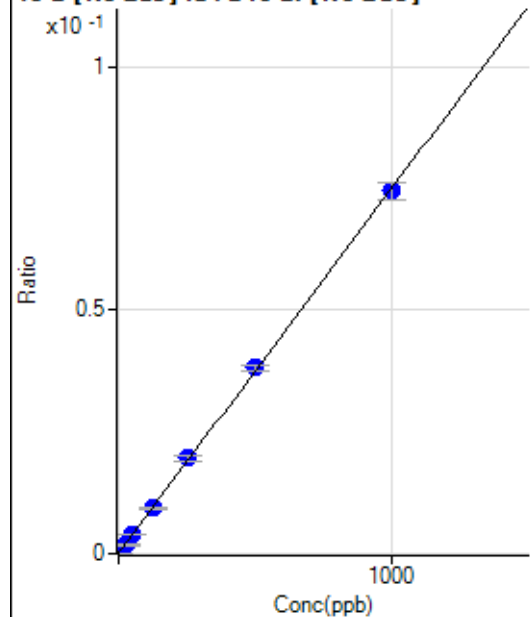
$$R = 1.0000$$

$$DL = 0.005202$$

$$BEC = 0.04671$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|-----------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 305.57    | 0.0001 | P       | 3.8 |
| 2 | <input type="checkbox"/> | 25.000   | 23.079     | 7190.74   | 0.0018 | P       | 4.2 |
| 3 | <input type="checkbox"/> | 50.000   | 50.250     | 15316.27  | 0.0038 | P       | 3.7 |
| 4 | <input type="checkbox"/> | 125.000  | 123.737    | 36827.88  | 0.0093 | P       | 5.3 |
| 5 | <input type="checkbox"/> | 250.000  | 260.126    | 74399.02  | 0.0196 | P       | 5.9 |
| 6 | <input type="checkbox"/> | 500.000  | 507.947    | 145858.87 | 0.0381 | P       | 3.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.688    | 277486.59 | 0.0745 | P       | 4.7 |
| 8 | <input type="checkbox"/> |          |            | 6584.88   | 0.0019 | P       | 6.7 |

$$y = 7.4900\text{E-}005 * x + 7.7953\text{E-}005$$

$$R = 0.9999$$

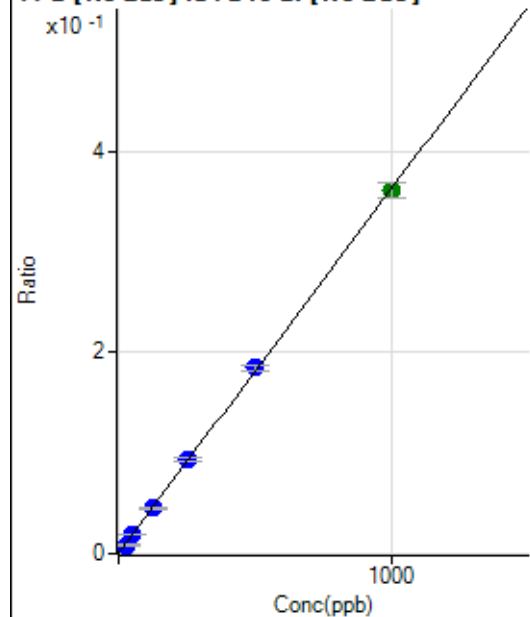
$$DL = 0.12$$

$$BEC = 1.041$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1989.08    | 0.0005 | P       | 8.2 |
| 2 | <input type="checkbox"/> | 25.000   | 22.109     | 33901.71   | 0.0085 | P       | 4.6 |
| 3 | <input type="checkbox"/> | 50.000   | 50.039     | 74321.06   | 0.0186 | P       | 4.2 |
| 4 | <input type="checkbox"/> | 125.000  | 124.412    | 179644.61  | 0.0456 | P       | 4.0 |
| 5 | <input type="checkbox"/> | 250.000  | 258.738    | 358488.07  | 0.0943 | P       | 3.7 |
| 6 | <input type="checkbox"/> | 500.000  | 508.022    | 706235.60  | 0.1846 | P       | 3.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 993.948    | 1343208.99 | 0.3607 | A       | 4.1 |
| 8 | <input type="checkbox"/> |          |            | 32312.24   | 0.0092 | P       | 9.7 |

$$y = 3.6236\text{E-}004 * x + 5.0737\text{E-}004$$

$$R = 0.9999$$

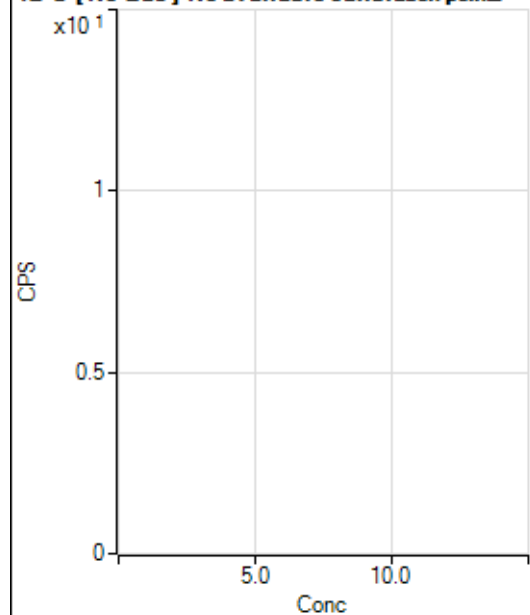
$$DL = 0.3461$$

$$BEC = 1.4$$

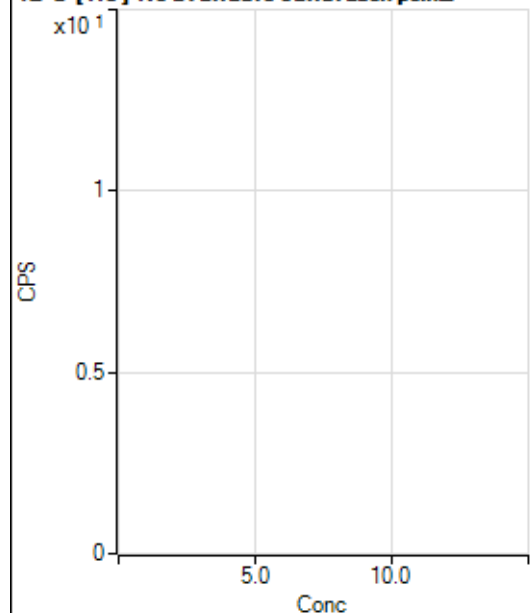
Weight: &lt;None&gt;

Min Conc: 0

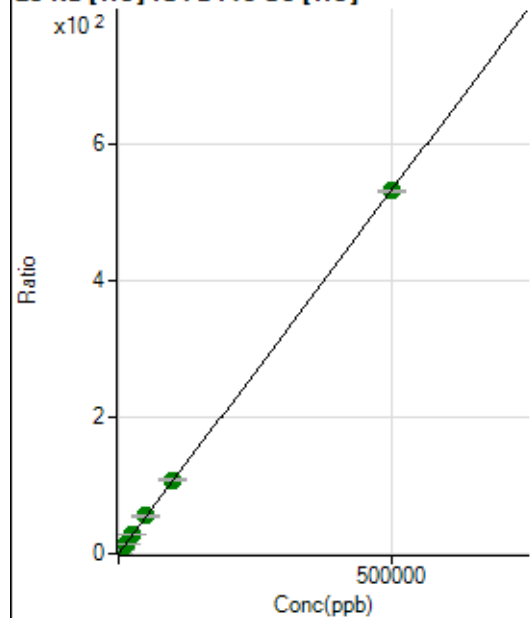
12 C [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|--------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 35465.04     | 0.0441   | P       | 2.9 |
| 2 | <input type="checkbox"/> | 500.000   | 488.062    | 460924.49    | 0.5633   | P       | 0.8 |
| 3 | <input type="checkbox"/> | 5000.000  | 5247.531   | 4524606.81   | 5.6258   | A       | 1.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 12955.669  | 10999467.26  | 13.8248  | A       | 0.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 25725.311  | 21841573.41  | 27.4075  | A       | 0.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 51644.966  | 43467962.08  | 54.9777  | A       | 1.3 |
| 7 | <input type="checkbox"/> | 100000.00 | 101638.03  | 85616426.91  | 108.1541 | A       | 2.0 |
| 8 | <input type="checkbox"/> | 500000.00 | 499457.77  | 407220460.95 | 531.3057 | A       | 0.8 |

$$y = 0.0011 * x + 0.0441$$

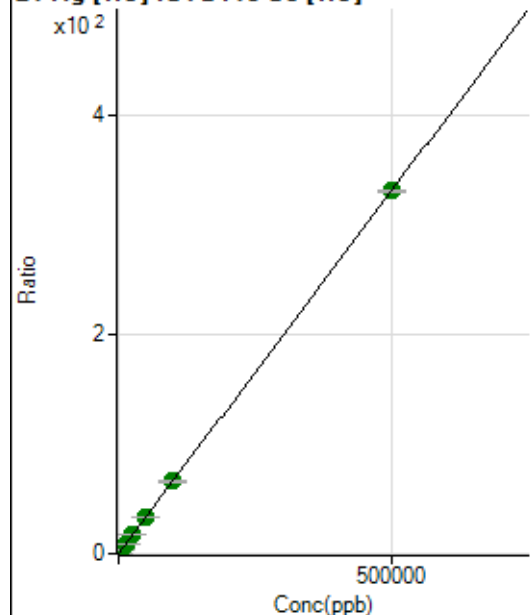
$$R = 1.0000$$

$$DL = 3.635$$

$$BEC = 41.48$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|--------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 985.24       | 0.0012   | P       | 2.4 |
| 2 | <input type="checkbox"/> | 500.000   | 478.125    | 260271.62    | 0.3181   | P       | 0.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5217.453   | 2781469.68   | 3.4586   | A       | 0.6 |
| 4 | <input type="checkbox"/> | 12500.000 | 12864.940  | 6783939.97   | 8.5262   | A       | 1.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 25396.283  | 13412197.17  | 16.8301  | A       | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 51041.525  | 26743700.60  | 33.8240  | A       | 0.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 99588.734  | 52243187.28  | 65.9938  | A       | 1.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 499947.01  | 253911711.23 | 331.2917 | A       | 0.5 |

$$y = 6.6265E-004 * x + 0.0012$$

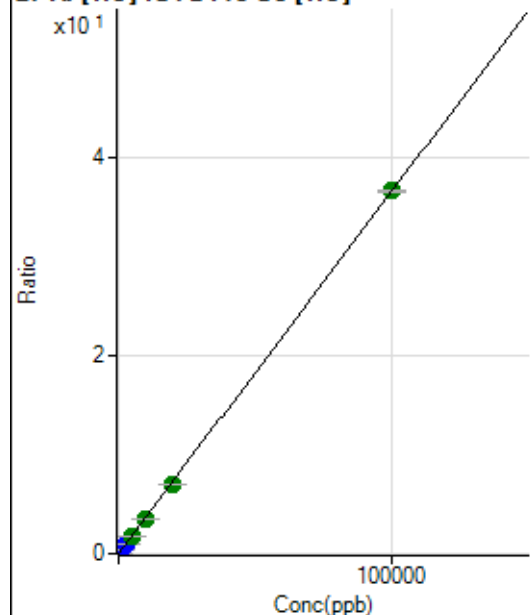
$$R = 1.0000$$

$$DL = 0.1305$$

$$BEC = 1.849$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 224.08      | 0.0003  | P       | 22.5 |
| 2 | <input type="checkbox"/> | 20.000    | 19.201     | 5967.91     | 0.0073  | P       | 1.1  |
| 3 | <input type="checkbox"/> | 1000.000  | 995.036    | 292523.28   | 0.3638  | P       | 1.1  |
| 4 | <input type="checkbox"/> | 2500.000  | 2438.660   | 708968.06   | 0.8911  | P       | 1.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 4839.378   | 1408985.74  | 1.7680  | A       | 0.7  |
| 6 | <input type="checkbox"/> | 10000.000 | 9708.994   | 2804395.58  | 3.5469  | A       | 0.7  |
| 7 | <input type="checkbox"/> | 20000.000 | 19184.602  | 5548482.30  | 7.0082  | A       | 0.3  |
| 8 | <input type="checkbox"/> | 100000.00 | 100201.79  | 28053694.84 | 36.6028 | A       | 0.8  |

$$y = 3.6529E-004 * x + 2.7853E-004$$

$$R = 1.0000$$

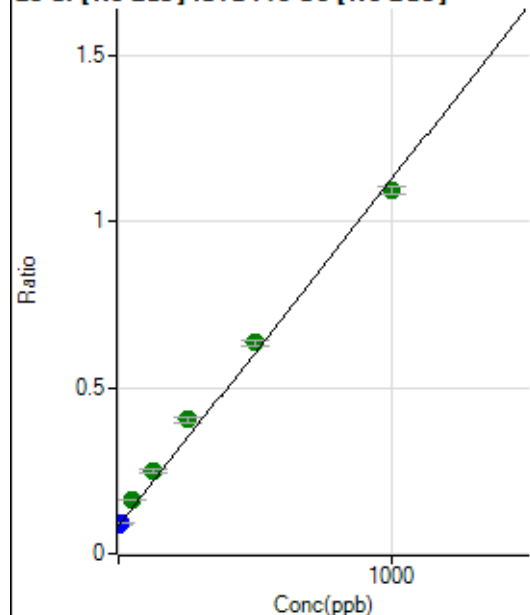
$$DL = 0.5157$$

$$BEC = 0.7625$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|-------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 807941.73   | 0.0842 | P       | 0.1 |
| 2 | <input type="checkbox"/> | 10.000   | 8.461      | 889008.83   | 0.0930 | P       | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 74.806     | 1568900.72  | 0.1623 | A       | 2.8 |
| 4 | <input type="checkbox"/> | 125.000  | 159.497    | 2428336.66  | 0.2507 | A       | 4.1 |
| 5 | <input type="checkbox"/> | 250.000  | 306.365    | 3839028.21  | 0.4041 | A       | 5.0 |
| 6 | <input type="checkbox"/> | 500.000  | 527.717    | 6139605.65  | 0.6352 | A       | 3.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 966.513    | 10482475.84 | 1.0933 | A       | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 1303017.52  | 0.1390 | A       | 3.3 |

$$y = 0.0010 * x + 0.0842$$

$$R = 0.9973$$

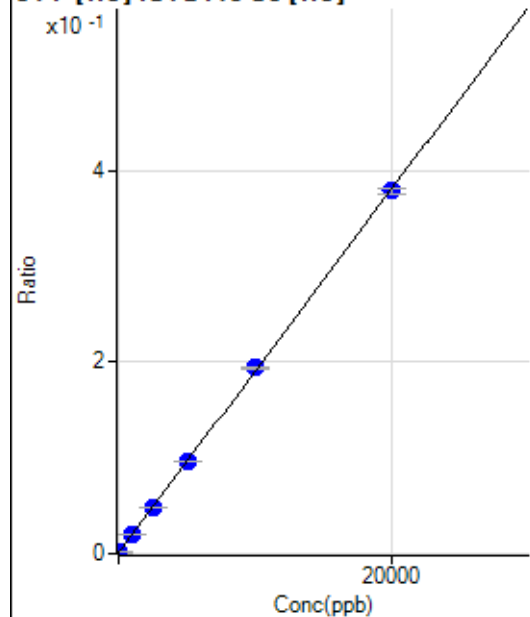
$$DL = 0.3549$$

$$BEC = 80.64$$

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  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | -10.138    | 580.58    | 0.0007 | P       | 8.3  |
| 2 | <input type="checkbox"/> | 0.000     | 10.138     | 905.61    | 0.0011 | P       | 15.7 |
| 3 | <input type="checkbox"/> | 1000.000  | 1047.004   | 16701.16  | 0.0208 | P       | 2.1  |
| 4 | <input type="checkbox"/> | 2500.000  | 2481.255   | 38156.47  | 0.0480 | P       | 1.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 4995.238   | 76203.91  | 0.0956 | P       | 0.4  |
| 6 | <input type="checkbox"/> | 10000.000 | 10183.234  | 153380.18 | 0.1940 | P       | 0.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19909.567  | 299557.06 | 0.3784 | P       | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 686.15    | 0.0009 | P       | 7.6  |

$$y = 1.8960E-005 * x + 9.1436E-004$$

$$R = 0.9999$$

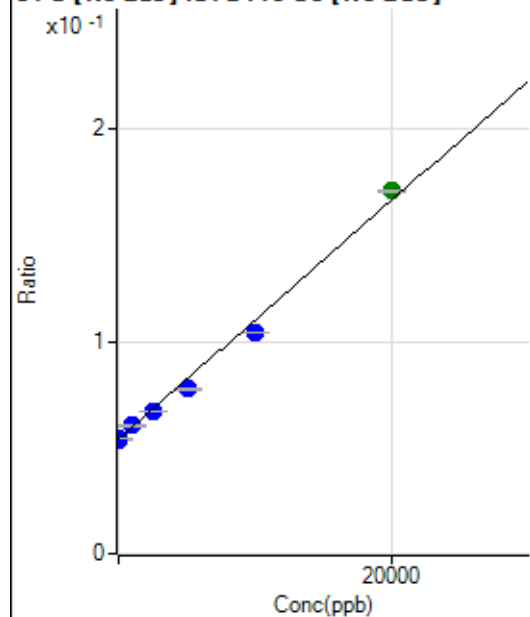
$$DL = 18.46$$

$$BEC = 48.23$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|-----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -38.562    | 516517.68  | 0.0538 | P       | 1.0 |
| 2 | <input type="checkbox"/> | 0.000     | 38.562     | 518546.98  | 0.0543 | P       | 1.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 1112.344   | 582843.50  | 0.0603 | P       | 0.4 |
| 4 | <input type="checkbox"/> | 2500.000  | 2350.248   | 651347.41  | 0.0673 | P       | 0.5 |
| 5 | <input type="checkbox"/> | 5000.000  | 4192.645   | 737327.65  | 0.0776 | P       | 0.5 |
| 6 | <input type="checkbox"/> | 10000.000 | 8885.314   | 1005372.21 | 0.1040 | P       | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 20772.284  | 1637929.82 | 0.1708 | A       | 0.3 |
| 8 | <input type="checkbox"/> |           |            | 432420.11  | 0.0461 | P       | 2.5 |

$$y = 5.6223\text{E-}006 * x + 0.0540$$

$$R = 0.9967$$

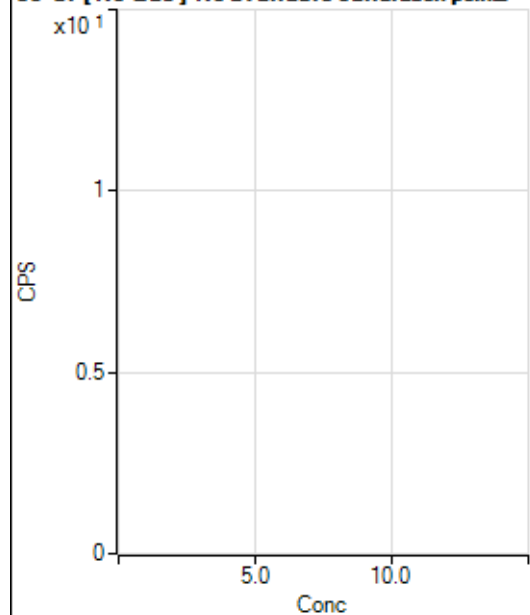
$$DL = 284.5$$

$$BEC = 9612$$

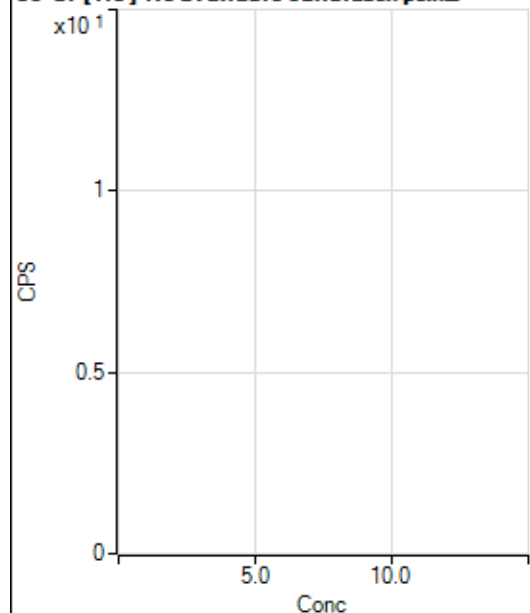
Weight: &lt;None&gt;

Min Conc: 0

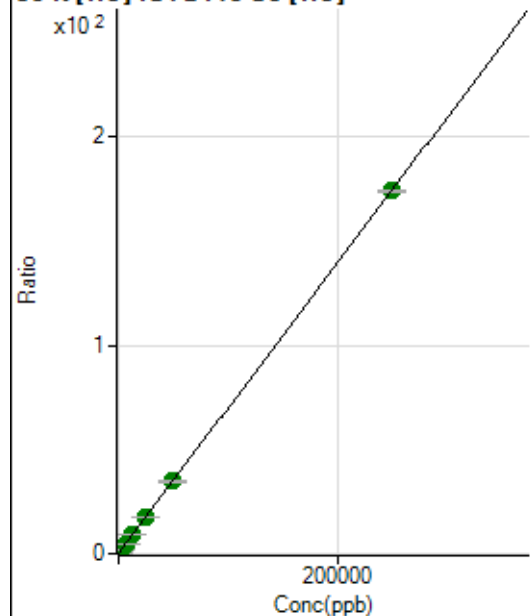
35 Cl [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | De<br>t | RSD |
|---|--------------------------|-----------|------------|--------------|----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 113470.79    | 0.1411   | P       | 0.4 |
| 2 | <input type="checkbox"/> | 500.000   | 500.525    | 400152.18    | 0.4890   | P       | 0.9 |
| 3 | <input type="checkbox"/> | 2500.000  | 2533.710   | 1529654.93   | 1.9020   | A       | 0.2 |
| 4 | <input type="checkbox"/> | 6250.000  | 6278.434   | 3584149.90   | 4.5046   | A       | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12491.120  | 7030682.62   | 8.8223   | A       | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 25119.868  | 13915373.58  | 17.5992  | A       | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 49752.264  | 27484840.55  | 34.7185  | A       | 1.1 |
| 8 | <input type="checkbox"/> | 250000.00 | 250036.95  | 133293782.15 | 173.9145 | A       | 0.5 |

$$y = 6.9499E-004 * x + 0.1411$$

$$R = 1.0000$$

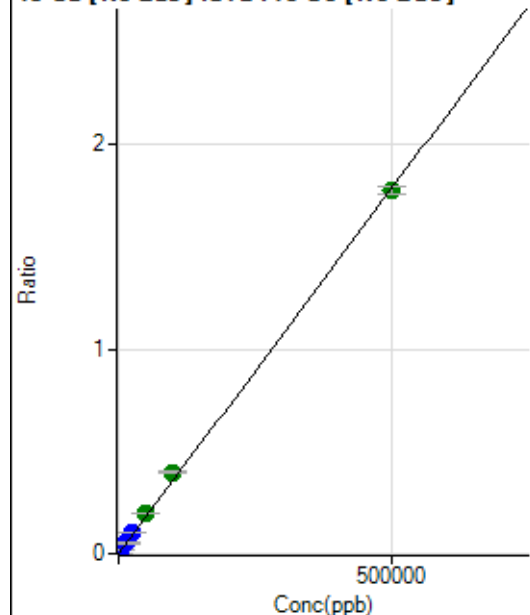
$$DL = 2.322$$

$$BEC = 203.1$$

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  | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 263.90      | 0.0000 | P       | 5.1 |
| 2 | <input type="checkbox"/> | 500.000   | 499.697    | 17315.79    | 0.0018 | P       | 3.2 |
| 3 | <input type="checkbox"/> | 5000.000  | 5909.515   | 204262.62   | 0.0211 | P       | 2.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 14532.291  | 502884.30   | 0.0519 | P       | 2.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 28953.186  | 982525.80   | 0.1034 | P       | 1.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 55591.991  | 1919199.00  | 0.1985 | A       | 2.7 |
| 7 | <input type="checkbox"/> | 100000.00 | 111340.22  | 3812318.53  | 0.3976 | A       | 1.9 |
| 8 | <input type="checkbox"/> | 500000.00 | 496915.19  | 16630617.04 | 1.7745 | A       | 2.0 |

$$y = 3.5710E-006 * x + 2.7502E-005$$

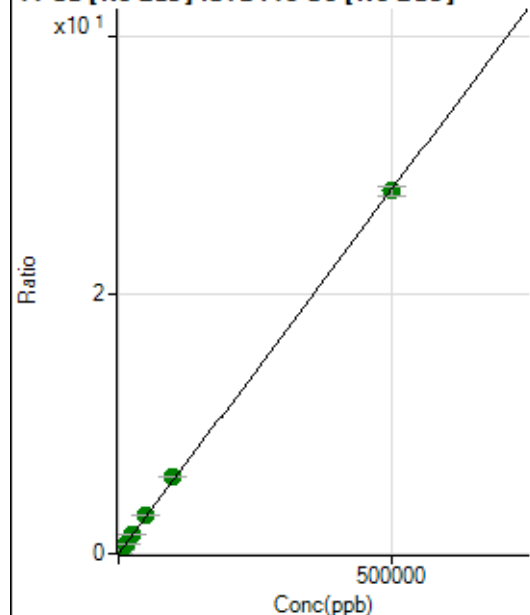
$$R = 0.9997$$

$$DL = 1.169$$

$$BEC = 7.701$$

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   | De<br>t | RSD |
|---|--------------------------|-----------|------------|--------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 14476.82     | 0.0015  | P       | 2.1 |
| 2 | <input type="checkbox"/> | 500.000   | 496.067    | 281085.51    | 0.0294  | P       | 2.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5376.296   | 2938094.42   | 0.3039  | A       | 1.1 |
| 4 | <input type="checkbox"/> | 12500.000 | 13234.638  | 7224885.23   | 0.7460  | A       | 2.7 |
| 5 | <input type="checkbox"/> | 25000.000 | 26127.968  | 13977457.87  | 1.4713  | A       | 1.4 |
| 6 | <input type="checkbox"/> | 50000.000 | 52498.756  | 28561937.79  | 2.9547  | A       | 1.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 105168.93  | 56737498.49  | 5.9175  | A       | 1.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 498637.81  | 262879603.10 | 28.0510 | A       | 2.6 |

$$y = 5.6252E-005 * x + 0.0015$$

$$R = 0.9999$$

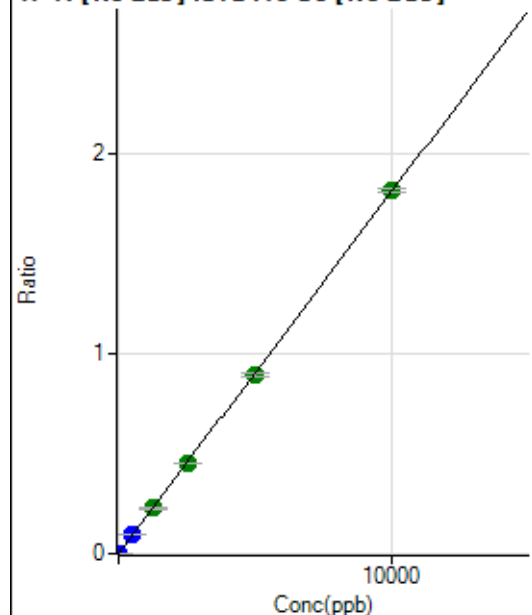
$$DL = 1.706$$

$$BEC = 26.81$$

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  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 211.12      | 0.0000 | P       | 22.4 |
| 2 | <input type="checkbox"/> | 5.000     | 4.490      | 7988.46     | 0.0008 | P       | 1.6  |
| 3 | <input type="checkbox"/> | 500.000   | 512.356    | 897953.97   | 0.0929 | P       | 1.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1255.356   | 2203952.33  | 0.2276 | A       | 2.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2497.026   | 4300031.39  | 0.4526 | A       | 1.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 4950.000   | 8673089.78  | 0.8972 | A       | 2.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 10024.456  | 17421667.40 | 1.8170 | A       | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 4656.38     | 0.0005 | P       | 3.5  |

$$y = 1.8126\text{E-}004 * x + 2.2020\text{E-}005$$

$$R = 1.0000$$

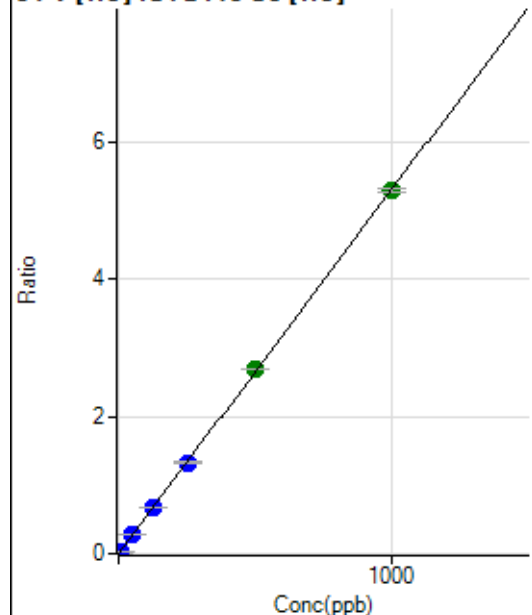
$$DL = 0.08163$$

$$BEC = 0.1215$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 15.56      | 0.0000 | P       | 12.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.750      | 20651.98   | 0.0252 | P       | 0.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.030     | 217887.14  | 0.2709 | P       | 0.5  |
| 4 | <input type="checkbox"/> | 125.000  | 125.321    | 529377.87  | 0.6654 | P       | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 250.466    | 1059722.32 | 1.3298 | P       | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 505.834    | 2123411.77 | 2.6856 | A       | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.876    | 4190379.14 | 5.2926 | A       | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 1749.01    | 0.0023 | P       | 4.9  |

$$y = 0.0053 * x + 1.9350\text{E-}005$$

$$R = 1.0000$$

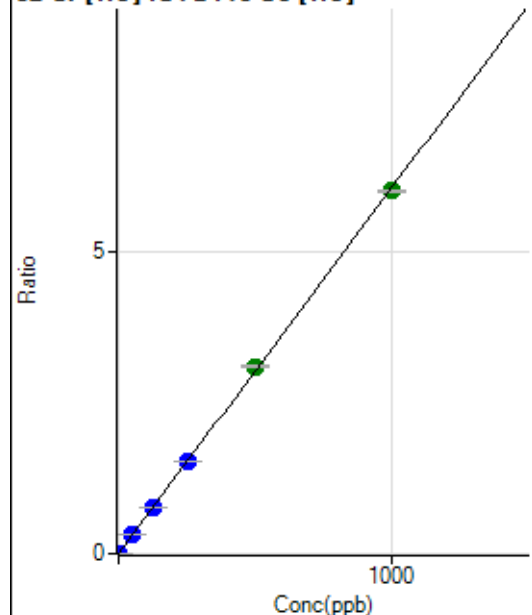
$$DL = 0.001359$$

$$BEC = 0.003645$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1523.43    | 0.0019 | P       | 3.9 |
| 2 | <input type="checkbox"/> | 2.000    | 1.956      | 11207.58   | 0.0137 | P       | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 52.230     | 254912.40  | 0.3170 | P       | 1.4 |
| 4 | <input type="checkbox"/> | 125.000  | 127.987    | 615800.40  | 0.7740 | P       | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 253.632    | 1220843.60 | 1.5320 | P       | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 512.086    | 2444115.83 | 3.0911 | A       | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.564    | 4741866.53 | 5.9896 | A       | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 40137.83   | 0.0524 | P       | 0.2 |

$$y = 0.0060 * x + 0.0019$$

$$R = 0.9999$$

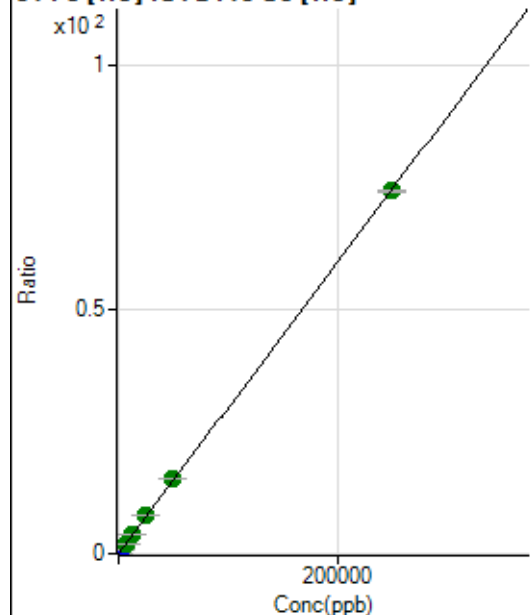
$$DL = 0.03685$$

$$BEC = 0.3141$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2396.00     | 0.0030  | P       | 3.7 |
| 2 | <input type="checkbox"/> | 50.000    | 52.994     | 15360.25    | 0.0188  | P       | 0.5 |
| 3 | <input type="checkbox"/> | 2500.000  | 2777.181   | 667800.46   | 0.8305  | P       | 1.6 |
| 4 | <input type="checkbox"/> | 6250.000  | 6604.222   | 1567961.54  | 1.9708  | A       | 1.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 13101.605  | 3113355.33  | 3.9067  | A       | 0.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 26383.215  | 6217883.39  | 7.8641  | A       | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 51446.562  | 12138521.84 | 15.3320 | A       | 0.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249530.65  | 56986398.14 | 74.3533 | A       | 0.6 |

$$y = 2.9796E-004 * x + 0.0030$$

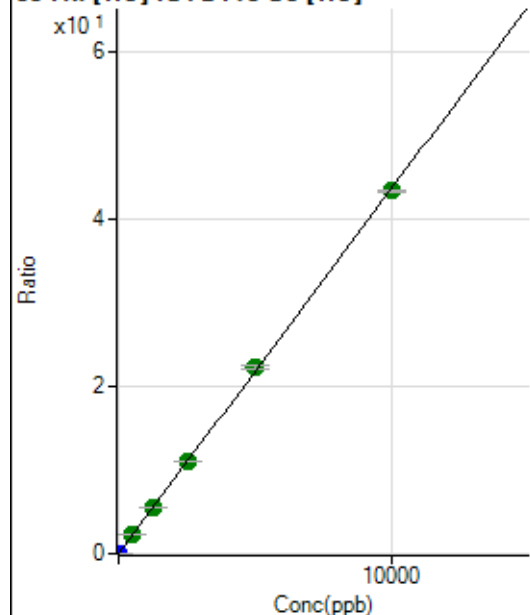
$$R = 1.0000$$

$$DL = 1.124$$

$$BEC = 10$$

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   | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 378.89      | 0.0005  | P       | 8.3 |
| 2 | <input type="checkbox"/> | 1.000     | 1.022      | 4039.47     | 0.0049  | P       | 5.9 |
| 3 | <input type="checkbox"/> | 500.000   | 511.913    | 1798816.50  | 2.2371  | A       | 2.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1275.131   | 4432979.03  | 5.5718  | A       | 0.8 |
| 5 | <input type="checkbox"/> | 2500.000  | 2513.785   | 8753094.52  | 10.9837 | A       | 0.5 |
| 6 | <input type="checkbox"/> | 5000.000  | 5107.391   | 17643918.91 | 22.3157 | A       | 1.3 |
| 7 | <input type="checkbox"/> | 10000.000 | 9939.121   | 34381710.32 | 43.4264 | A       | 0.2 |
| 8 | <input type="checkbox"/> |           |            | 48438.76    | 0.0632  | P       | 0.9 |

$$y = 0.0044 * x + 4.7112E-004$$

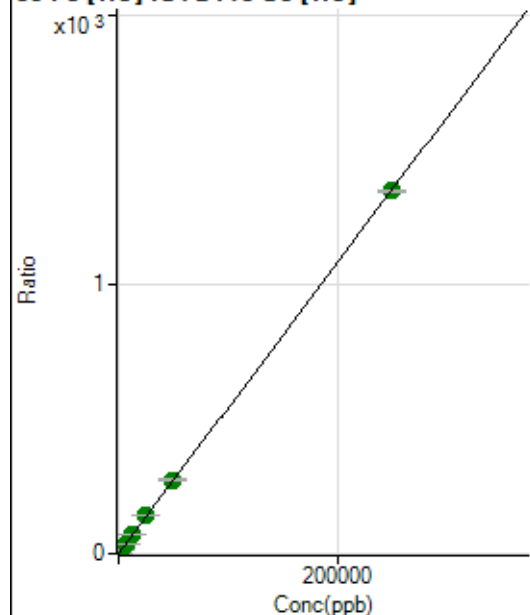
$$R = 0.9999$$

$$DL = 0.02671$$

$$BEC = 0.1078$$

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     | De<br>t | RSD |
|---|--------------------------|-----------|------------|--------------|-----------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 17258.29     | 0.0215    | P       | 2.6 |
| 2 | <input type="checkbox"/> | 50.000    | 49.358     | 235850.48    | 0.2882    | P       | 1.4 |
| 3 | <input type="checkbox"/> | 2500.000  | 2626.546   | 11431517.85  | 14.2163   | A       | 1.9 |
| 4 | <input type="checkbox"/> | 6250.000  | 6477.168   | 27868755.48  | 35.0266   | A       | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 12880.282  | 55490633.65  | 69.6315   | A       | 0.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 26082.633  | 111468836.75 | 140.9821  | A       | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 50874.597  | 217686867.83 | 274.9674  | A       | 0.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 249690.85  | 1034286697.1 | 1,349.447 | A       | 0.4 |

$$y = 0.0054 * x + 0.0215$$

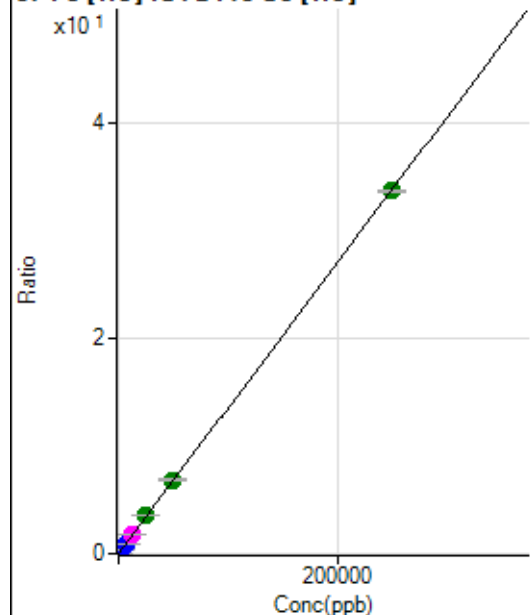
$$R = 1.0000$$

$$DL = 0.3049$$

$$BEC = 3.972$$

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   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1038.95     | 0.0013  | P       | 11.0 |
| 2 | <input type="checkbox"/> | 50.000    | 49.021     | 6468.17     | 0.0079  | P       | 2.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2690.428   | 292842.63   | 0.3642  | P       | 0.9  |
| 4 | <input type="checkbox"/> | 6250.000  | 6623.032   | 711737.74   | 0.8946  | P       | 0.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 12820.698  | 1379031.14  | 1.7305  | M       | 1.8  |
| 6 | <input type="checkbox"/> | 25000.000 | 26040.222  | 2777885.80  | 3.5134  | A       | 1.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 50874.229  | 5433331.95  | 6.8628  | A       | 1.2  |
| 8 | <input type="checkbox"/> | 250000.00 | 249693.86  | 25812595.48 | 33.6782 | A       | 0.3  |

$$y = 1.3487\text{E-}004 * x + 0.0013$$

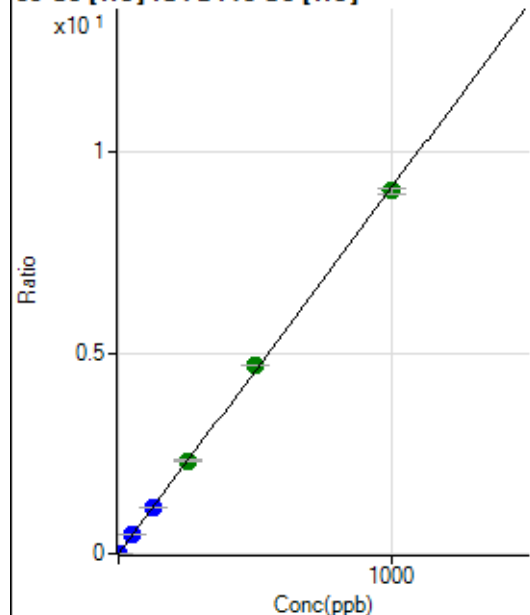
$$R = 1.0000$$

$$DL = 3.153$$

$$BEC = 9.585$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 113.34     | 0.0001 | P       | 15.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 7495.27    | 0.0092 | P       | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.339     | 383467.90  | 0.4768 | P       | 0.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.771    | 926016.07  | 1.1639 | P       | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 254.701    | 1848842.39 | 2.3200 | A       | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 513.824    | 3700466.13 | 4.6801 | A       | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.449    | 7148974.54 | 9.0304 | A       | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 7618.67    | 0.0099 | P       | 4.1  |

$$y = 0.0091 * x + 1.4105\text{E-}004$$

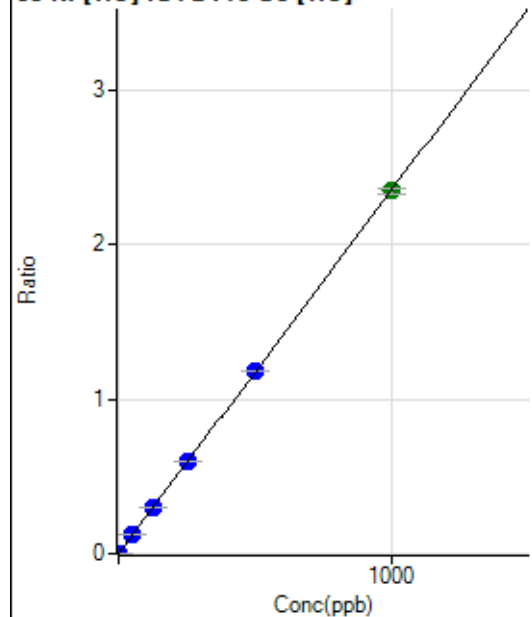
$$R = 0.9998$$

$$DL = 0.007088$$

$$BEC = 0.01549$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 355.56     | 0.0004 | P       | 22.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.984      | 2257.97    | 0.0028 | P       | 2.1  |
| 3 | <input type="checkbox"/> | 50.000   | 52.209     | 99167.15   | 0.1233 | P       | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 127.839    | 239717.08  | 0.3013 | P       | 0.7  |
| 5 | <input type="checkbox"/> | 250.000  | 252.723    | 474325.96  | 0.5952 | P       | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 501.494    | 933512.19  | 1.1807 | P       | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.107    | 1859792.58 | 2.3494 | A       | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 9669.86    | 0.0126 | P       | 1.3  |

$$y = 0.0024 * x + 4.4253E-004$$

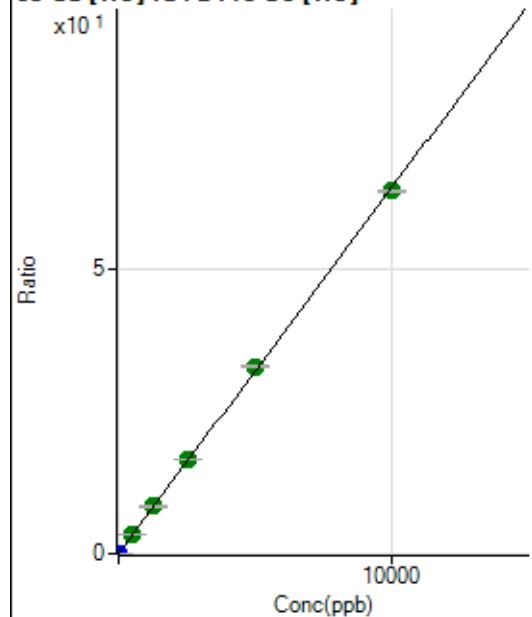
$$R = 1.0000$$

$$DL = 0.1257$$

$$BEC = 0.188$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1488.98     | 0.0019  | P       | 2.7 |
| 2 | <input type="checkbox"/> | 2.000     | 1.971      | 11882.57    | 0.0145  | P       | 2.8 |
| 3 | <input type="checkbox"/> | 500.000   | 523.303    | 2706173.66  | 3.3652  | A       | 1.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1294.450   | 6620678.44  | 8.3214  | A       | 1.2 |
| 5 | <input type="checkbox"/> | 2500.000  | 2563.632   | 13132184.11 | 16.4786 | A       | 1.0 |
| 6 | <input type="checkbox"/> | 5000.000  | 5110.071   | 25969216.84 | 32.8449 | A       | 1.1 |
| 7 | <input type="checkbox"/> | 10000.000 | 9922.335   | 50488828.14 | 63.7739 | A       | 0.7 |
| 8 | <input type="checkbox"/> |           |            | 18330.20    | 0.0239  | P       | 0.1 |

$$y = 0.0064 * x + 0.0019$$

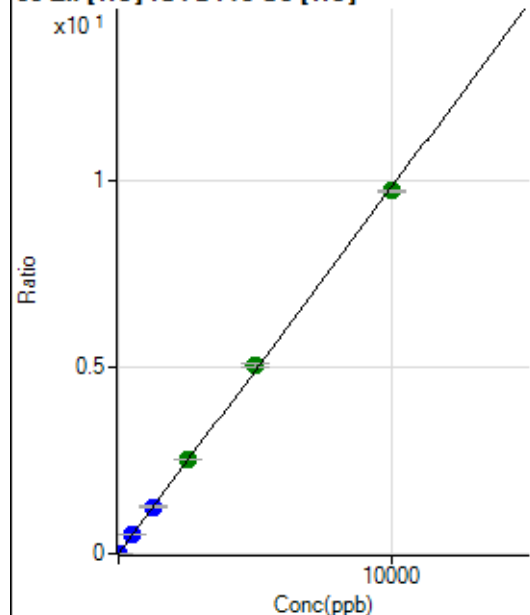
$$R = 0.9999$$

$$DL = 0.02309$$

$$BEC = 0.2881$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | De<br>t | RSD |
|---|--------------------------|-----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1575.66    | 0.0020 | P       | 5.8 |
| 2 | <input type="checkbox"/> | 2.000     | 2.163      | 3343.74    | 0.0041 | P       | 0.5 |
| 3 | <input type="checkbox"/> | 500.000   | 523.415    | 415350.44  | 0.5165 | P       | 0.2 |
| 4 | <input type="checkbox"/> | 1250.000  | 1282.751   | 1004803.37 | 1.2629 | P       | 0.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2557.531   | 2005058.58 | 2.5160 | A       | 0.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 5157.835   | 4010183.52 | 5.0721 | A       | 1.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9901.435   | 7707116.62 | 9.7351 | A       | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 12905.65   | 0.0168 | P       | 0.7 |

$$y = 9.8300\text{E-}004 * x + 0.0020$$

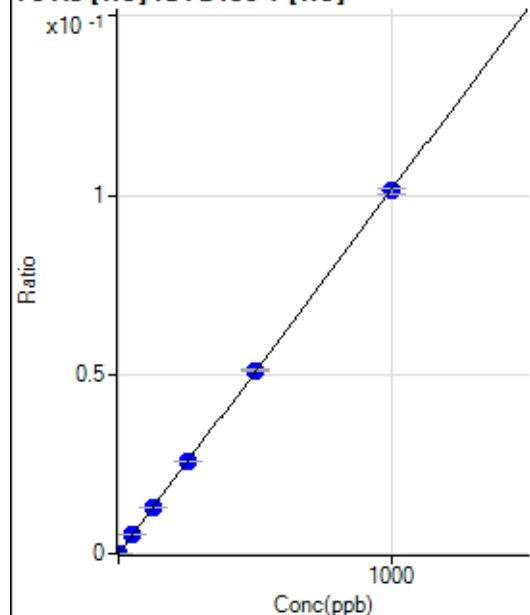
$$R = 0.9998$$

$$DL = 0.3464$$

$$BEC = 1.994$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4.94      | 0.0000 | P       | 45.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.022      | 550.63    | 0.0001 | P       | 5.9  |
| 3 | <input type="checkbox"/> | 50.000   | 51.306     | 27424.66  | 0.0052 | P       | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.854    | 67278.96  | 0.0129 | P       | 1.7  |
| 5 | <input type="checkbox"/> | 250.000  | 252.453    | 134716.26 | 0.0256 | P       | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 503.912    | 270821.21 | 0.0511 | P       | 1.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.134    | 534102.07 | 0.1012 | P       | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 329.63    | 0.0001 | P       | 5.2  |

$$y = 1.0149\text{E-}004 * x + 9.5277\text{E-}007$$

$$R = 1.0000$$

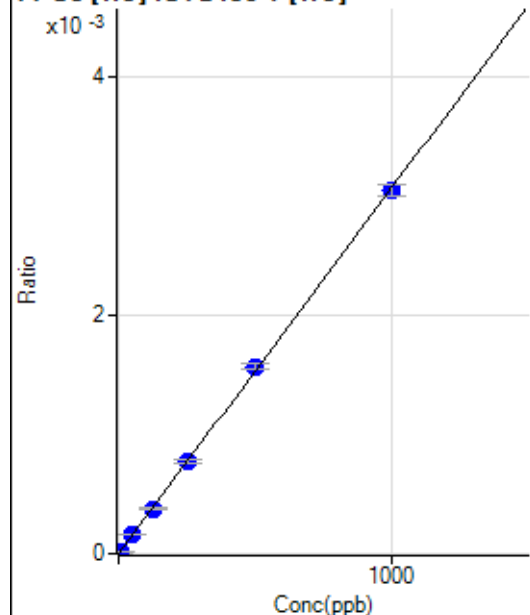
$$DL = 0.01267$$

$$BEC = 0.009388$$

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  | De<br>t | RSD   |
|---|--------------------------|----------|------------|----------|--------|---------|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11     | 0.0000 | P       | 173.2 |
| 2 | <input type="checkbox"/> | 5.000    | 5.912      | 96.67    | 0.0000 | P       | 12.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.338     | 846.70   | 0.0002 | P       | 7.7   |
| 4 | <input type="checkbox"/> | 125.000  | 123.538    | 1983.49  | 0.0004 | P       | 4.2   |
| 5 | <input type="checkbox"/> | 250.000  | 254.718    | 4111.72  | 0.0008 | P       | 3.8   |
| 6 | <input type="checkbox"/> | 500.000  | 512.481    | 8330.19  | 0.0016 | P       | 2.4   |
| 7 | <input type="checkbox"/> | 1000.000 | 992.641    | 16076.64 | 0.0030 | P       | 3.2   |
| 8 | <input type="checkbox"/> |          |            | 7.78     | 0.0000 | P       | 138.5 |

$$y = 3.0690\text{E-}006 * x + 2.1171\text{E-}007$$

$$R = 0.9999$$

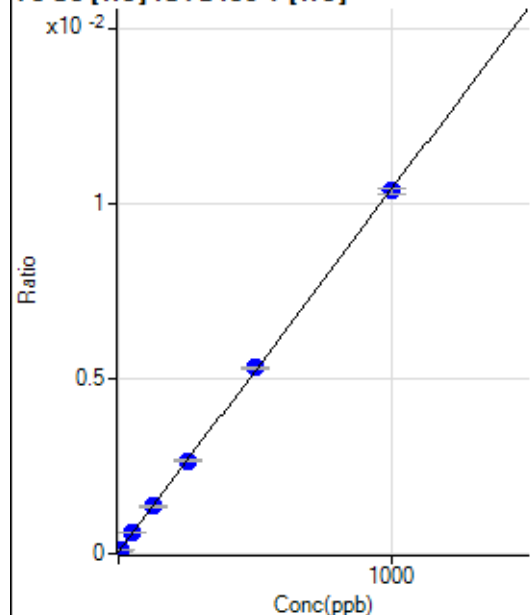
$$DL = 0.3585$$

$$BEC = 0.06898$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|----------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 258.65   | 0.0000 | P       | 13.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.845      | 526.56   | 0.0001 | P       | 7.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.418     | 3123.80  | 0.0006 | P       | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.226    | 7150.51  | 0.0014 | P       | 4.6  |
| 5 | <input type="checkbox"/> | 250.000  | 250.826    | 13934.35 | 0.0027 | P       | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 507.355    | 28120.44 | 0.0053 | P       | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 995.718    | 54749.24 | 0.0104 | P       | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 297.54   | 0.0001 | P       | 10.4 |

$$y = 1.0368\text{E-}005 * x + 4.9725\text{E-}005$$

$$R = 1.0000$$

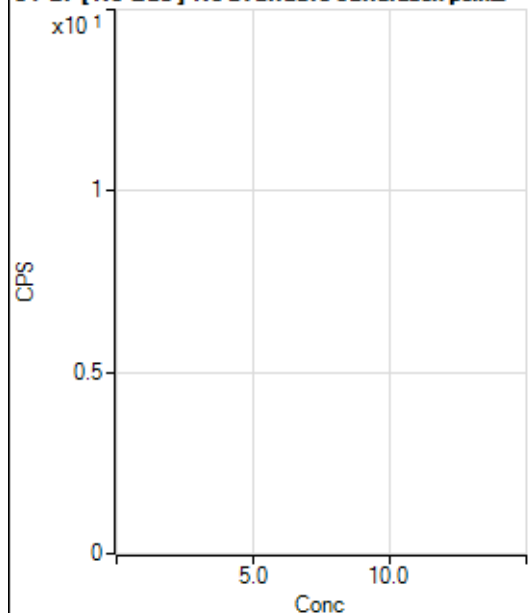
$$DL = 1.877$$

$$BEC = 4.796$$

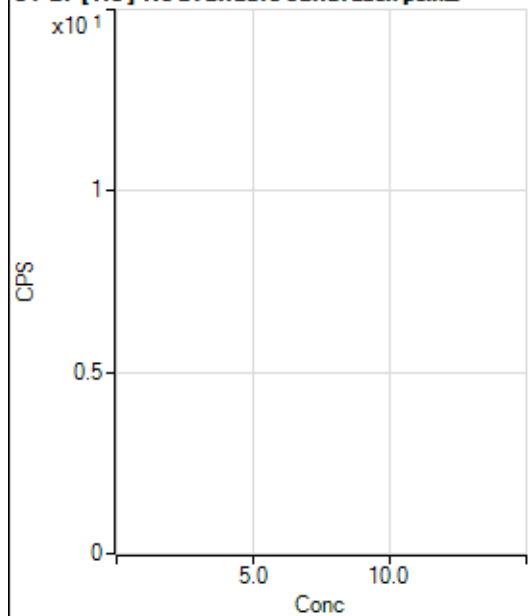
Weight: &lt;None&gt;

Min Conc: 0

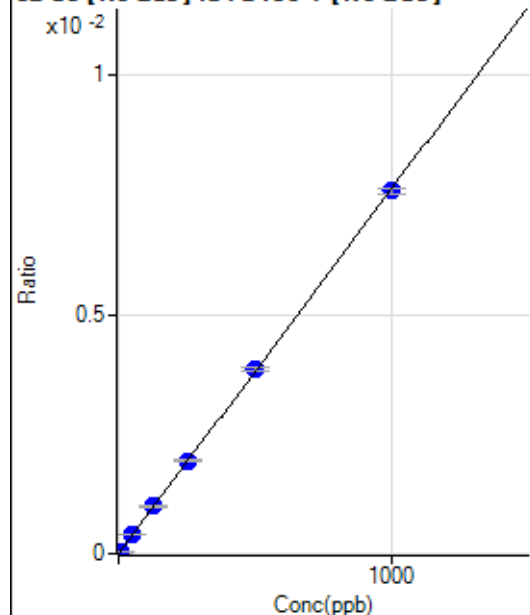


**81 Br [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|----------|-------|---------|-----|
| 1 | <input type="checkbox"/> |       |            | 22609.51 |       | P       | 1.6 |
| 2 | <input type="checkbox"/> |       |            | 22211.66 |       | P       | 2.3 |
| 3 | <input type="checkbox"/> |       |            | 22534.42 |       | P       | 1.7 |
| 4 | <input type="checkbox"/> |       |            | 21849.98 |       | P       | 3.2 |
| 5 | <input type="checkbox"/> |       |            | 23391.37 |       | P       | 2.0 |
| 6 | <input type="checkbox"/> |       |            | 23271.61 |       | P       | 1.2 |
| 7 | <input type="checkbox"/> |       |            | 22595.63 |       | P       | 2.9 |
| 8 | <input type="checkbox"/> |       |            | 23755.68 |       | P       | 5.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|-------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 86.75 |       | P       | 24.0  |
| 2 | <input type="checkbox"/> |       |            | 56.73 |       | P       | 100.3 |
| 3 | <input type="checkbox"/> |       |            | 56.72 |       | P       | 10.2  |
| 4 | <input type="checkbox"/> |       |            | 60.06 |       | P       | 60.1  |
| 5 | <input type="checkbox"/> |       |            | 60.06 |       | P       | 0.0   |
| 6 | <input type="checkbox"/> |       |            | 73.41 |       | P       | 15.7  |
| 7 | <input type="checkbox"/> |       |            | 63.40 |       | P       | 48.2  |
| 8 | <input type="checkbox"/> |       |            | 80.08 |       | P       | 33.1  |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD    |
|---|--------------------------|----------|------------|-----------|--------|---------|--------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -2.67     | 0.0000 | P       | -2611. |
| 2 | <input type="checkbox"/> | 5.000    | 4.974      | 837.12    | 0.0000 | P       | 2.8    |
| 3 | <input type="checkbox"/> | 50.000   | 53.494     | 9100.92   | 0.0004 | P       | 1.1    |
| 4 | <input type="checkbox"/> | 125.000  | 130.209    | 22394.96  | 0.0010 | P       | 2.3    |
| 5 | <input type="checkbox"/> | 250.000  | 254.460    | 43872.06  | 0.0019 | P       | 1.4    |
| 6 | <input type="checkbox"/> | 500.000  | 506.809    | 89103.99  | 0.0039 | P       | 1.5    |
| 7 | <input type="checkbox"/> | 1000.000 | 994.655    | 174873.95 | 0.0076 | P       | 1.9    |
| 8 | <input type="checkbox"/> |          |            | 219.27    | 0.0000 | P       | 11.9   |

$$y = 7.6187\text{E-}006 * x - 1.1981\text{E-}007$$

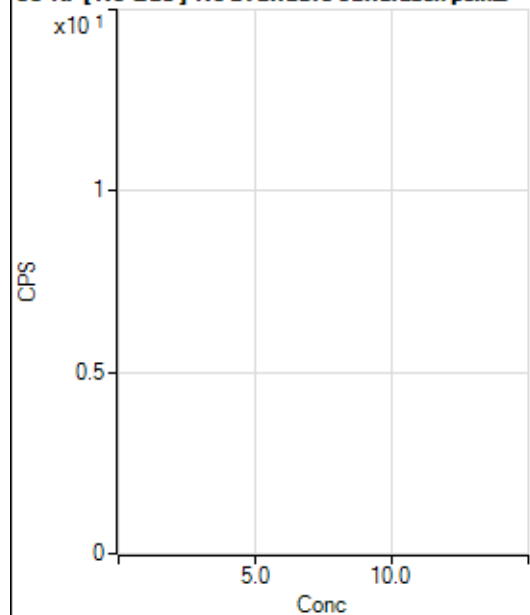
$$R = 0.9999$$

$$DL = 1.232$$

$$BEC = -0.01573$$

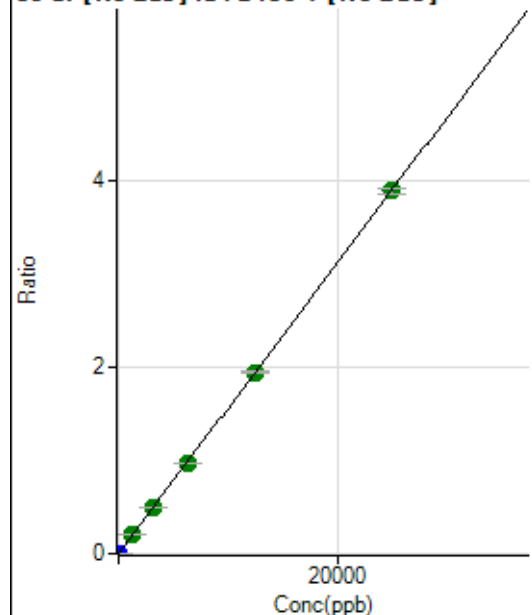
Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 272.23 |       | P       | 23.1 |
| 2 | <input type="checkbox"/> |       |            | 263.34 |       | P       | 7.7  |
| 3 | <input type="checkbox"/> |       |            | 266.67 |       | P       | 9.8  |
| 4 | <input type="checkbox"/> |       |            | 243.34 |       | P       | 6.0  |
| 5 | <input type="checkbox"/> |       |            | 284.45 |       | P       | 6.0  |
| 6 | <input type="checkbox"/> |       |            | 256.67 |       | P       | 12.4 |
| 7 | <input type="checkbox"/> |       |            | 271.12 |       | P       | 3.5  |
| 8 | <input type="checkbox"/> |       |            | 295.56 |       | P       | 6.2  |

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | De<br>t | RSD |
|---|--------------------------|-----------|------------|-------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 502.80      | 0.0000 | P       | 3.5 |
| 2 | <input type="checkbox"/> | 1.000     | 0.978      | 3870.05     | 0.0002 | P       | 2.3 |
| 3 | <input type="checkbox"/> | 1250.000  | 1301.493   | 4520122.06  | 0.2024 | A       | 0.3 |
| 4 | <input type="checkbox"/> | 3125.000  | 3175.909   | 11148071.34 | 0.4938 | A       | 0.6 |
| 5 | <input type="checkbox"/> | 6250.000  | 6226.998   | 21909416.98 | 0.9681 | A       | 1.4 |
| 6 | <input type="checkbox"/> | 12500.000 | 12512.139  | 44890960.03 | 1.9452 | A       | 1.5 |
| 7 | <input type="checkbox"/> | 25000.000 | 24990.743  | 89658794.36 | 3.8852 | A       | 1.7 |
| 8 | <input type="checkbox"/> |           |            | 31726.63    | 0.0015 | P       | 2.1 |

$$y = 1.5546E-004 * x + 2.2667E-005$$

$$R = 1.0000$$

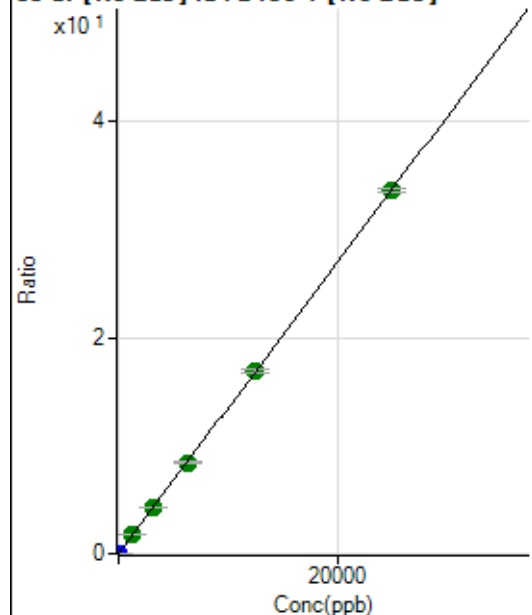
$$DL = 0.01551$$

$$BEC = 0.1458$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio   | De<br>t | RSD  |
|---|--------------------------|-----------|------------|--------------|---------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 597.25       | 0.0000  | P       | 15.5 |
| 2 | <input type="checkbox"/> | 1.000     | 0.950      | 28920.72     | 0.0013  | P       | 2.9  |
| 3 | <input type="checkbox"/> | 1250.000  | 1288.105   | 38732174.83  | 1.7339  | A       | 1.0  |
| 4 | <input type="checkbox"/> | 3125.000  | 3170.221   | 96349659.10  | 4.2675  | A       | 1.1  |
| 5 | <input type="checkbox"/> | 6250.000  | 6251.056   | 190434411.20 | 8.4146  | A       | 1.2  |
| 6 | <input type="checkbox"/> | 12500.000 | 12578.860  | 390765858.73 | 16.9324 | A       | 1.6  |
| 7 | <input type="checkbox"/> | 25000.000 | 24952.748  | 775155017.33 | 33.5888 | A       | 1.0  |
| 8 | <input type="checkbox"/> |           |            | 270046.11    | 0.0125  | P       | 3.6  |

$$y = 0.0013 * x + 2.6940E-005$$

$$R = 1.0000$$

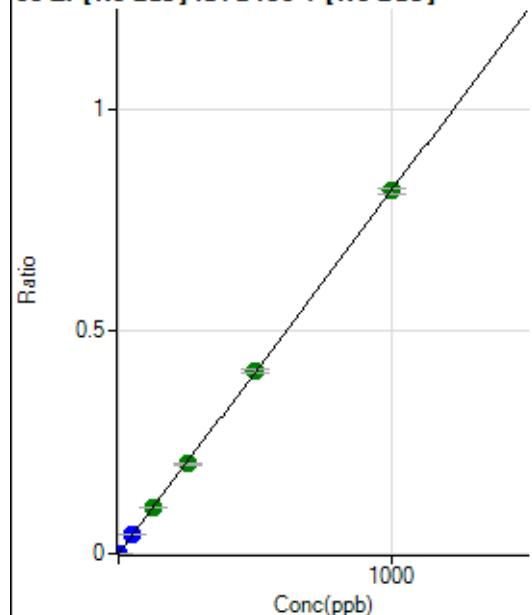
$$DL = 0.009299$$

$$BEC = 0.02001$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 947.28      | 0.0000 | P       | 12.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.920      | 17577.60    | 0.0008 | P       | 3.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.172     | 933897.89   | 0.0418 | P       | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 126.749    | 2336582.19  | 0.1035 | A       | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 247.662    | 4575455.96  | 0.2022 | A       | 2.6  |
| 6 | <input type="checkbox"/> | 500.000  | 501.804    | 9452172.52  | 0.4096 | A       | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.405    | 18824205.46 | 0.8157 | A       | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 9881.32     | 0.0005 | P       | 1.9  |

$$y = 8.1613\text{E-}004 * x + 4.2732\text{E-}005$$

$$R = 1.0000$$

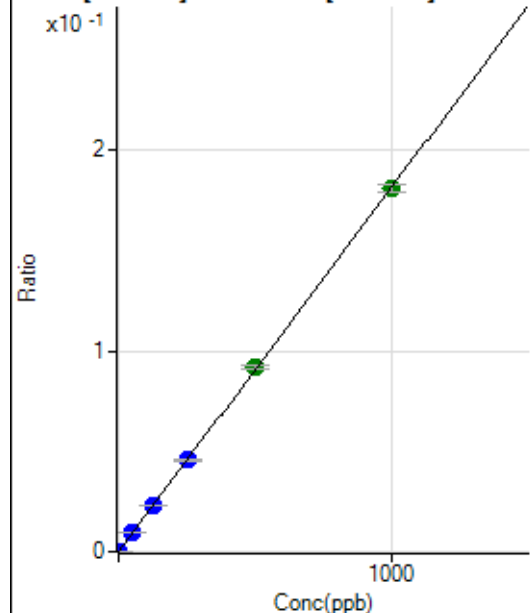
$$DL = 0.01962$$

$$BEC = 0.05236$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 175.00     | 0.0000 | P       | 13.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.887      | 3736.69    | 0.0002 | P       | 2.8  |
| 3 | <input type="checkbox"/> | 50.000   | 51.948     | 210608.13  | 0.0094 | P       | 1.0  |
| 4 | <input type="checkbox"/> | 125.000  | 126.430    | 517818.75  | 0.0229 | P       | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 250.785    | 1029438.29 | 0.0455 | P       | 2.6  |
| 6 | <input type="checkbox"/> | 500.000  | 506.705    | 2120707.32 | 0.0919 | A       | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.175    | 4169032.17 | 0.1807 | A       | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 2186.33    | 0.0001 | P       | 2.8  |

$$y = 1.8134\text{E-}004 * x + 7.8944\text{E-}006$$

$$R = 1.0000$$

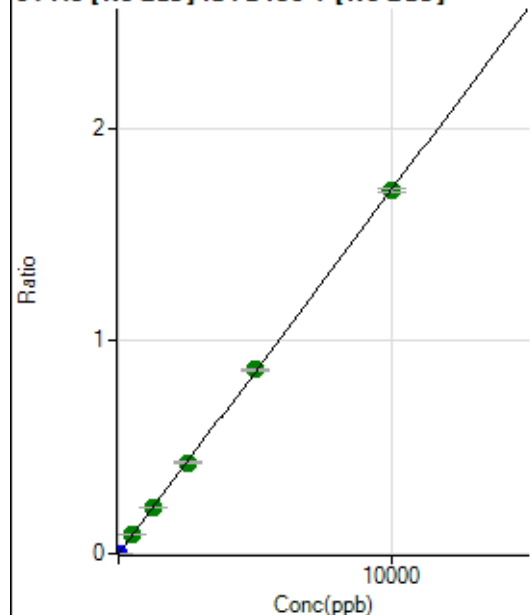
$$DL = 0.01712$$

$$BEC = 0.04353$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 325.01      | 0.0000 | P       | 14.9 |
| 2 | <input type="checkbox"/> | 5.000     | 5.382      | 20737.40    | 0.0009 | P       | 2.3  |
| 3 | <input type="checkbox"/> | 500.000   | 515.418    | 1970526.98  | 0.0882 | A       | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.664   | 4898099.55  | 0.2169 | A       | 3.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2498.588   | 9676840.67  | 0.4276 | A       | 2.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5049.594   | 19941438.99 | 0.8641 | A       | 1.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 9972.577   | 39382872.06 | 1.7065 | A       | 1.1  |
| 8 | <input type="checkbox"/> |           |            | 15489.11    | 0.0007 | P       | 5.2  |

$$y = 1.7112E-004 * x + 1.4663E-005$$

$$R = 1.0000$$

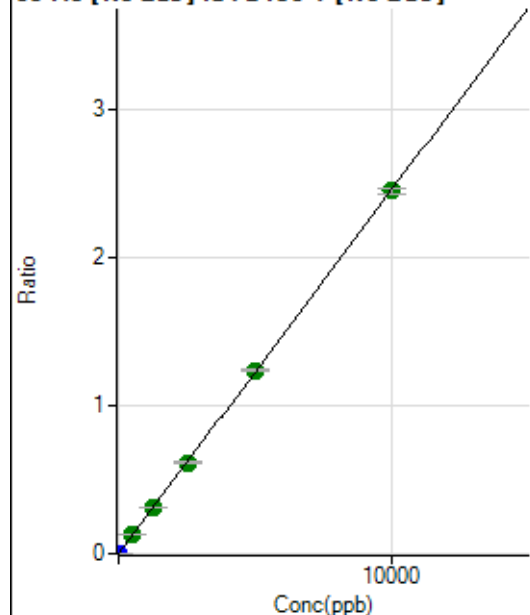
$$DL = 0.03821$$

$$BEC = 0.08569$$

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  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 91.67       | 0.0000 | P       | 17.6 |
| 2 | <input type="checkbox"/> | 5.000     | 4.404      | 24084.28    | 0.0011 | P       | 0.6  |
| 3 | <input type="checkbox"/> | 500.000   | 512.835    | 2816629.45  | 0.1261 | A       | 1.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1267.041   | 7033252.55  | 0.3115 | A       | 3.1  |
| 5 | <input type="checkbox"/> | 2500.000  | 2504.796   | 13936973.57 | 0.6158 | A       | 1.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5039.739   | 28594607.76 | 1.2390 | A       | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9976.160   | 56602115.85 | 2.4527 | A       | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 19872.34    | 0.0009 | P       | 4.1  |

$$y = 2.4585E-004 * x + 4.1302E-006$$

$$R = 1.0000$$

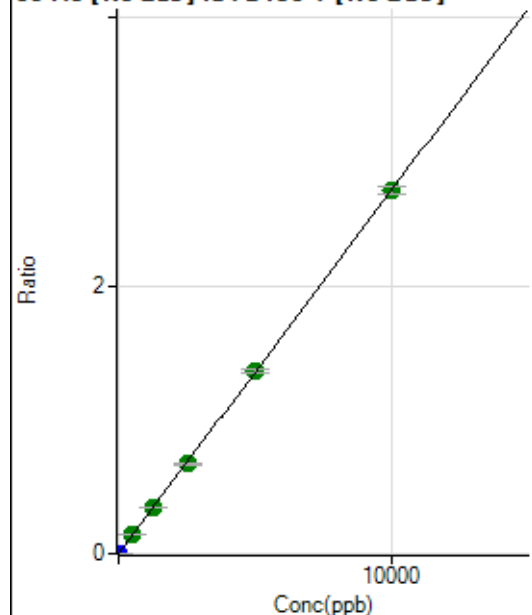
$$DL = 0.008858$$

$$BEC = 0.0168$$

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  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 147.23      | 0.0000 | P       | 24.0 |
| 2 | <input type="checkbox"/> | 5.000     | 4.447      | 26858.46    | 0.0012 | P       | 0.5  |
| 3 | <input type="checkbox"/> | 500.000   | 515.672    | 3122556.73  | 0.1398 | A       | 1.0  |
| 4 | <input type="checkbox"/> | 1250.000  | 1262.592   | 7727501.30  | 0.3423 | A       | 2.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2480.720   | 15218511.62 | 0.6724 | A       | 1.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 5038.164   | 31517369.80 | 1.3657 | A       | 1.6  |
| 7 | <input type="checkbox"/> | 10000.000 | 9983.380   | 62450663.89 | 2.7061 | A       | 2.2  |
| 8 | <input type="checkbox"/> |           |            | 31267.38    | 0.0015 | P       | 4.2  |

$$y = 2.7106\text{E-}004 * x + 6.6441\text{E-}006$$

$$R = 1.0000$$

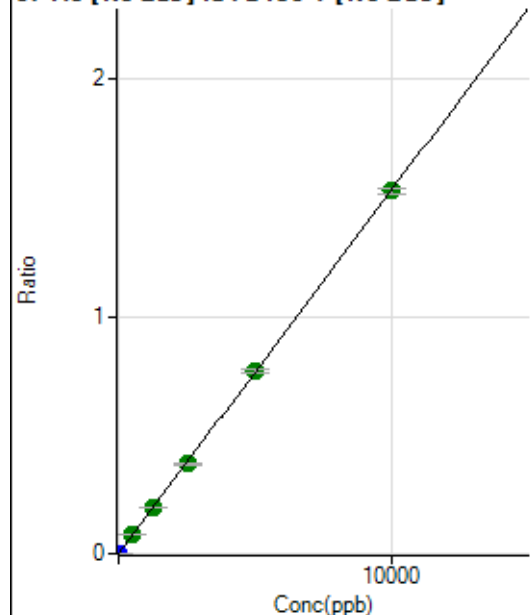
$$DL = 0.01765$$

$$BEC = 0.02451$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 36.11       | 0.0000 | P       | 13.5 |
| 2 | <input type="checkbox"/> | 5.000     | 4.509      | 15344.54    | 0.0007 | P       | 2.8  |
| 3 | <input type="checkbox"/> | 500.000   | 510.943    | 1748971.77  | 0.0783 | A       | 1.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1265.105   | 4377014.55  | 0.1939 | A       | 1.9  |
| 5 | <input type="checkbox"/> | 2500.000  | 2481.633   | 8606447.33  | 0.3803 | A       | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5042.224   | 17831621.58 | 0.7727 | A       | 2.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 9981.045   | 35296523.36 | 1.5295 | A       | 1.2  |
| 8 | <input type="checkbox"/> |           |            | 12177.60    | 0.0006 | P       | 5.3  |

$$y = 1.5324\text{E-}004 * x + 1.6284\text{E-}006$$

$$R = 1.0000$$

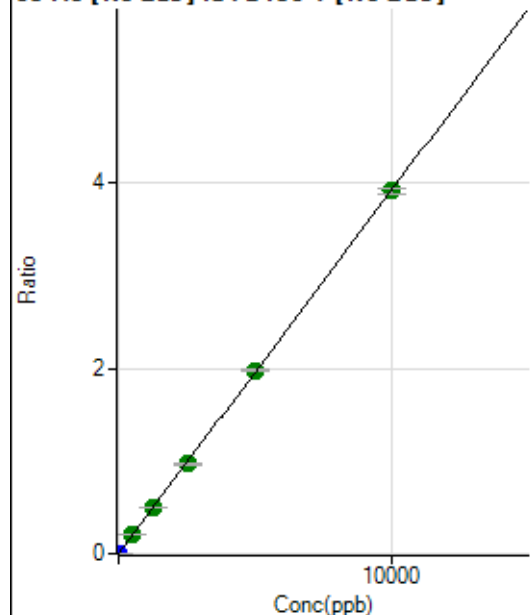
$$DL = 0.004305$$

$$BEC = 0.01063$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 111.11      | 0.0000 | P       | 24.2 |
| 2 | <input type="checkbox"/> | 5.000     | 4.380      | 38203.33    | 0.0017 | P       | 1.2  |
| 3 | <input type="checkbox"/> | 500.000   | 511.911    | 4487496.37  | 0.2009 | A       | 0.7  |
| 4 | <input type="checkbox"/> | 1250.000  | 1260.696   | 11169759.63 | 0.4947 | A       | 1.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2480.572   | 22030839.21 | 0.9734 | A       | 2.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5037.621   | 45622662.13 | 1.9769 | A       | 1.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9984.114   | 90418549.24 | 3.9180 | A       | 1.3  |
| 8 | <input type="checkbox"/> |           |            | 31231.25    | 0.0014 | P       | 8.2  |

$$y = 3.9243\text{E-}004 * x + 5.0104\text{E-}006$$

$$R = 1.0000$$

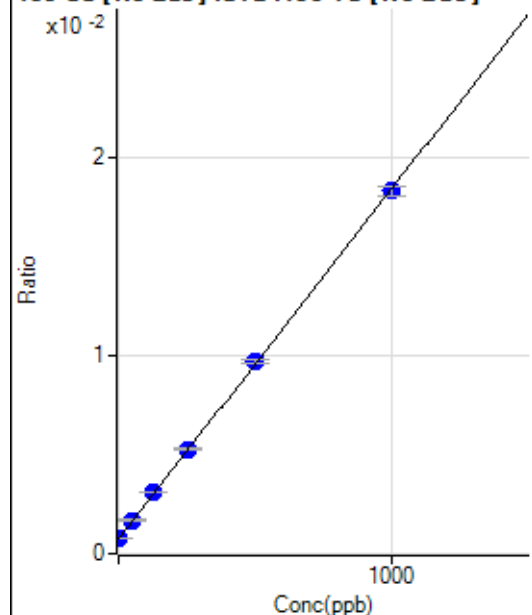
$$DL = 0.009274$$

$$BEC = 0.01277$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | De<br>t | RSD |
|---|--------------------------|----------|------------|-----------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 10943.29  | 0.0007 | P       | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.951      | 11452.04  | 0.0008 | P       | 1.7 |
| 3 | <input type="checkbox"/> | 50.000   | 53.554     | 25311.63  | 0.0017 | P       | 2.1 |
| 4 | <input type="checkbox"/> | 125.000  | 132.474    | 46486.13  | 0.0031 | P       | 1.5 |
| 5 | <input type="checkbox"/> | 250.000  | 255.623    | 80091.03  | 0.0052 | P       | 2.3 |
| 6 | <input type="checkbox"/> | 500.000  | 505.431    | 150483.88 | 0.0097 | P       | 1.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.766    | 284887.37 | 0.0183 | P       | 2.6 |
| 8 | <input type="checkbox"/> |          |            | 10420.73  | 0.0007 | P       | 0.3 |

$$y = 1.7623\text{E-}005 * x + 7.4420\text{E-}004$$

$$R = 0.9999$$

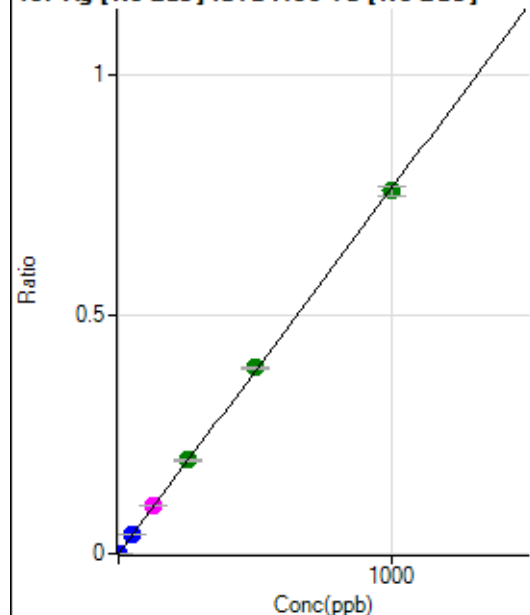
$$DL = 3.055$$

$$BEC = 42.23$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 122.23      | 0.0000 | P       | 27.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.829      | 9439.46     | 0.0006 | P       | 8.8  |
| 3 | <input type="checkbox"/> | 50.000   | 53.114     | 608839.30   | 0.0406 | P       | 3.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.961    | 1511237.28  | 0.1001 | M       | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 256.912    | 2995901.37  | 0.1963 | A       | 2.1  |
| 6 | <input type="checkbox"/> | 500.000  | 508.191    | 6055784.86  | 0.3884 | A       | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.276    | 11833400.18 | 0.7591 | A       | 2.9  |
| 8 | <input type="checkbox"/> |          |            | 6726.73     | 0.0005 | P       | 6.8  |

$$y = 7.6423\text{E-}004 * x + 8.3104\text{E-}006$$

$$R = 0.9999$$

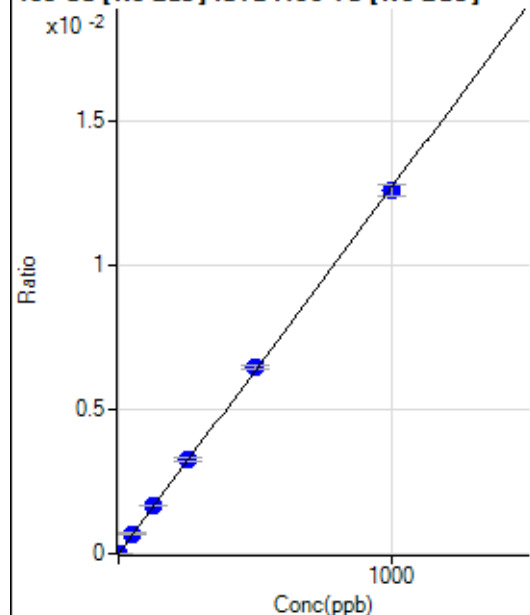
$$DL = 0.008962$$

$$BEC = 0.01087$$

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  | De<br>t | RSD |
|---|--------------------------|----------|------------|-----------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 34.72     | 0.0000 | P       | 6.8 |
| 2 | <input type="checkbox"/> | 1.000    | 1.140      | 247.22    | 0.0000 | P       | 6.3 |
| 3 | <input type="checkbox"/> | 50.000   | 54.206     | 10331.56  | 0.0007 | P       | 3.3 |
| 4 | <input type="checkbox"/> | 125.000  | 132.345    | 25344.52  | 0.0017 | P       | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 258.240    | 49942.80  | 0.0033 | P       | 2.8 |
| 6 | <input type="checkbox"/> | 500.000  | 511.485    | 101050.80 | 0.0065 | P       | 2.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 991.069    | 195722.33 | 0.0126 | P       | 3.0 |
| 8 | <input type="checkbox"/> |          |            | 151.39    | 0.0000 | P       | 7.9 |

$$y = 1.2666\text{E-}005 * x + 2.3610\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.03804$$

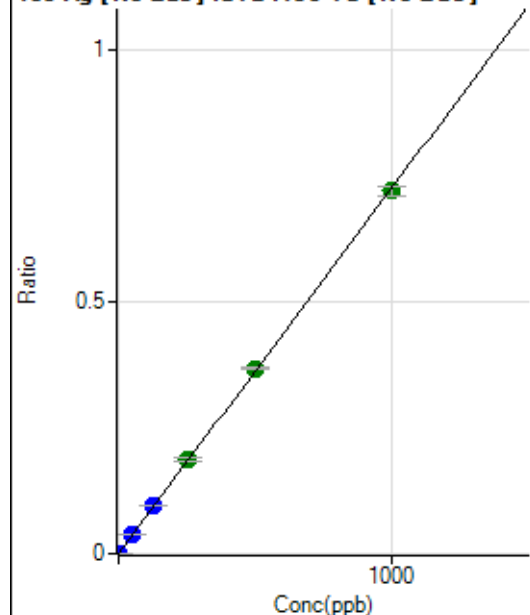
$$BEC = 0.1864$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 52.78       | 0.0000 | P       | 32.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.835      | 8950.22     | 0.0006 | P       | 9.7  |
| 3 | <input type="checkbox"/> | 50.000   | 53.334     | 579589.80   | 0.0386 | P       | 3.3  |
| 4 | <input type="checkbox"/> | 125.000  | 130.876    | 1431853.76  | 0.0948 | P       | 2.3  |
| 5 | <input type="checkbox"/> | 250.000  | 257.048    | 2841802.66  | 0.1863 | A       | 3.7  |
| 6 | <input type="checkbox"/> | 500.000  | 507.713    | 5736300.34  | 0.3679 | A       | 1.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 993.480    | 11222205.20 | 0.7199 | A       | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 6012.51     | 0.0004 | P       | 6.1  |

$$y = 7.2460\text{E-}004 * x + 3.5886\text{E-}006$$

$$R = 0.9999$$

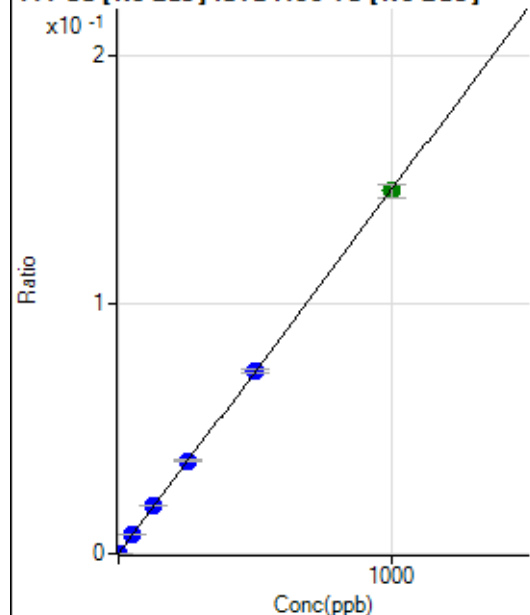
$$DL = 0.004876$$

$$BEC = 0.004953$$

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  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1076.97    | 0.0001 | P       | 3.0 |
| 2 | <input type="checkbox"/> | 1.000    | 1.062      | 3357.10    | 0.0002 | P       | 5.4 |
| 3 | <input type="checkbox"/> | 50.000   | 53.320     | 117743.31  | 0.0079 | P       | 1.5 |
| 4 | <input type="checkbox"/> | 125.000  | 131.022    | 289703.07  | 0.0192 | P       | 2.1 |
| 5 | <input type="checkbox"/> | 250.000  | 255.258    | 569319.13  | 0.0373 | P       | 2.4 |
| 6 | <input type="checkbox"/> | 500.000  | 502.037    | 1143145.49 | 0.0733 | P       | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.748    | 2267792.67 | 0.1455 | A       | 3.6 |
| 8 | <input type="checkbox"/> |          |            | 2141.72    | 0.0001 | P       | 1.3 |

$$y = 1.4589\text{E-}004 * x + 7.3240\text{E-}005$$

$$R = 1.0000$$

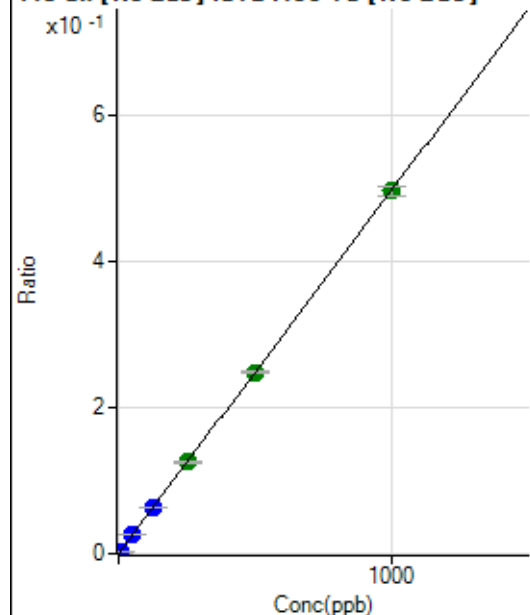
$$DL = 0.04481$$

$$BEC = 0.502$$

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  | De<br>t | RSD |
|---|--------------------------|----------|------------|------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3883.97    | 0.0003 | P       | 2.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.721      | 38429.75   | 0.0026 | P       | 3.0 |
| 3 | <input type="checkbox"/> | 50.000   | 51.244     | 386222.26  | 0.0258 | P       | 1.4 |
| 4 | <input type="checkbox"/> | 125.000  | 127.423    | 961068.94  | 0.0637 | P       | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 252.939    | 1923896.25 | 0.1261 | A       | 2.3 |
| 6 | <input type="checkbox"/> | 500.000  | 499.792    | 3880953.34 | 0.2489 | A       | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 999.006    | 7751710.07 | 0.4972 | A       | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 16206.77   | 0.0011 | P       | 3.6 |

$$y = 4.9747\text{E-}004 * x + 2.6412\text{E-}004$$

$$R = 1.0000$$

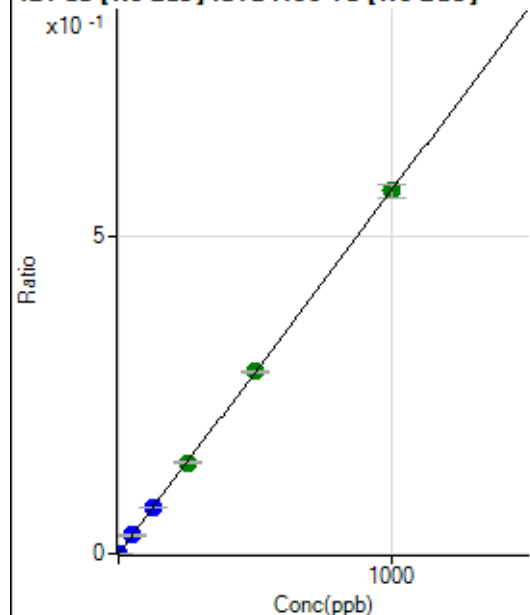
$$DL = 0.03397$$

$$BEC = 0.5309$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.00      | 0.0000 | P       | 11.0 |
| 2 | <input type="checkbox"/> | 2.000    | 1.876      | 15909.24   | 0.0011 | P       | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 50.781     | 437102.80  | 0.0291 | P       | 2.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.099    | 1092772.26 | 0.0724 | P       | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 251.019    | 2198089.37 | 0.1441 | A       | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 500.927    | 4482691.81 | 0.2875 | A       | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.106    | 8938156.62 | 0.5734 | A       | 3.5  |
| 8 | <input type="checkbox"/> |          |            | 11012.86   | 0.0008 | P       | 1.8  |

$$y = 5.7391\text{E-}004 * x + 5.1001\text{E-}006$$

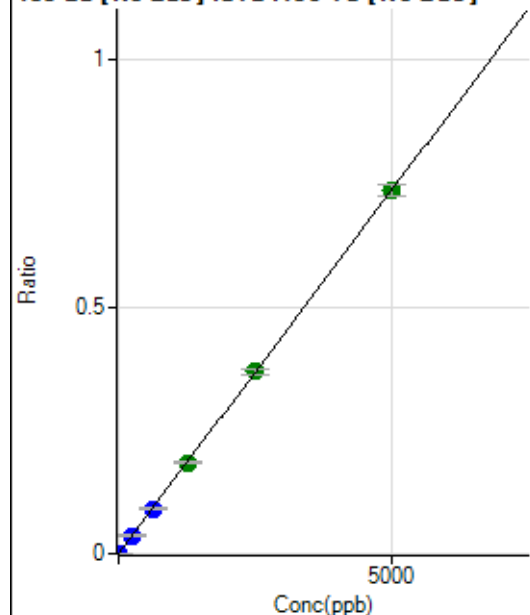
$$R = 1.0000$$

$$DL = 0.002927$$

$$BEC = 0.008887$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11       | 0.0000 | P       | 26.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.254      | 20067.40    | 0.0014 | P       | 0.9  |
| 3 | <input type="checkbox"/> | 250.000  | 250.283    | 552316.13   | 0.0368 | P       | 1.6  |
| 4 | <input type="checkbox"/> | 625.000  | 621.277    | 1380346.25  | 0.0914 | P       | 2.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1253.123   | 2813668.79  | 0.1844 | A       | 0.9  |
| 6 | <input type="checkbox"/> | 2500.000 | 2510.202   | 5759263.89  | 0.3694 | A       | 3.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4994.571   | 11457146.26 | 0.7350 | A       | 3.0  |
| 8 | <input type="checkbox"/> |          |            | 5542.88     | 0.0004 | P       | 2.9  |

$$y = 1.4715\text{E-}004 * x + 2.4554\text{E-}006$$

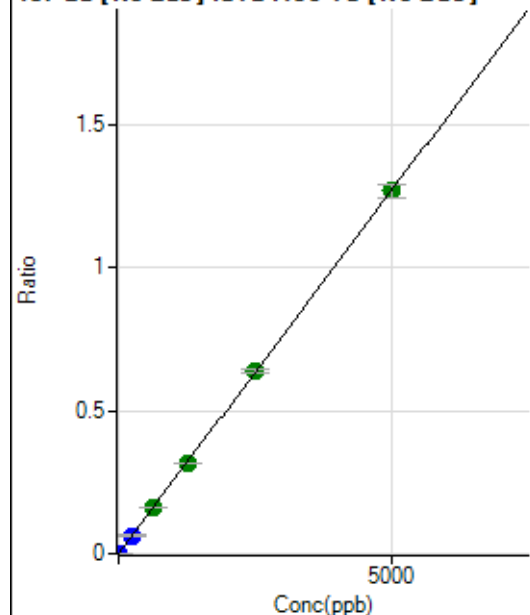
$$R = 1.0000$$

$$DL = 0.0133$$

$$BEC = 0.01669$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00       | 0.0000 | P       | 60.1 |
| 2 | <input type="checkbox"/> | 10.000   | 9.409      | 35208.20    | 0.0024 | P       | 1.9  |
| 3 | <input type="checkbox"/> | 250.000  | 251.097    | 956549.24   | 0.0638 | P       | 2.7  |
| 4 | <input type="checkbox"/> | 625.000  | 634.242    | 2432516.46  | 0.1611 | A       | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1245.927   | 4828975.37  | 0.3165 | A       | 1.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2505.580   | 9924071.31  | 0.6365 | A       | 1.9  |
| 7 | <input type="checkbox"/> | 5000.000 | 4997.019   | 19786071.80 | 1.2694 | A       | 3.7  |
| 8 | <input type="checkbox"/> |          |            | 10009.35    | 0.0007 | P       | 3.6  |

$$y = 2.5402\text{E-}004 * x + 3.4003\text{E-}006$$

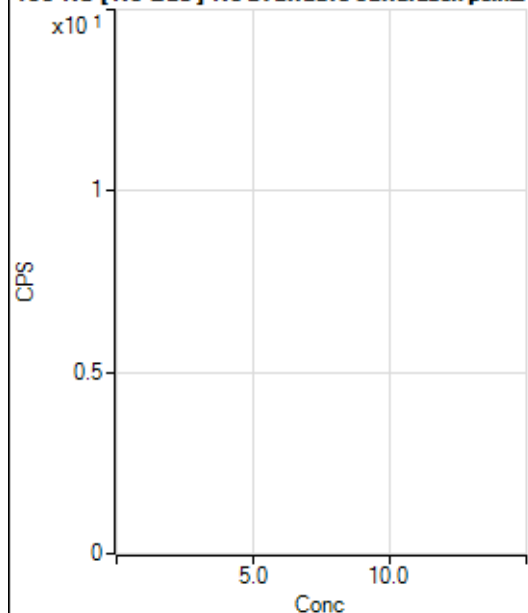
$$R = 1.0000$$

$$DL = 0.02414$$

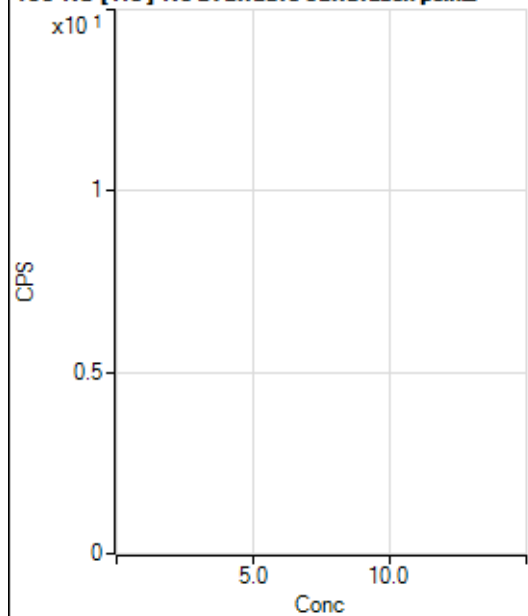
$$BEC = 0.01339$$

Weight: &lt;None&gt;

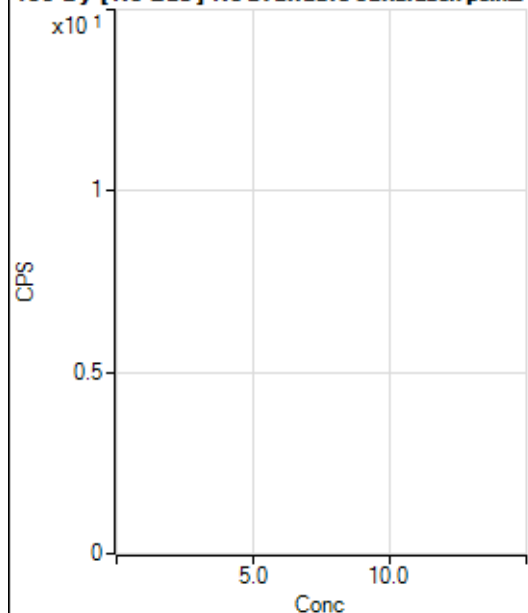
Min Conc: 0

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

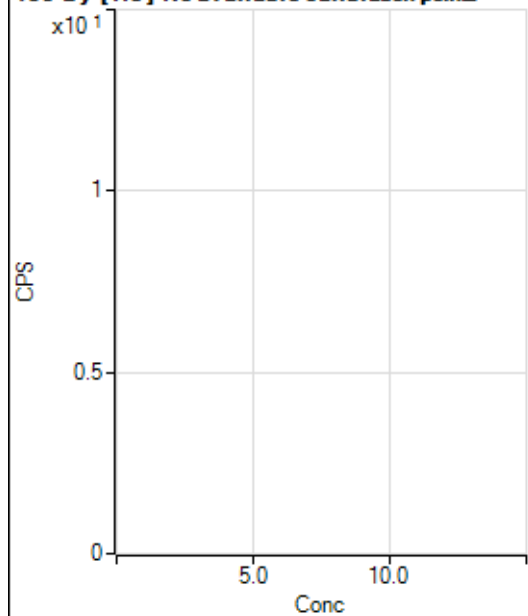
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|---------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 6.67    |       | P       | 0.0  |
| 2 | <input type="checkbox"/> |       |            | 8.89    |       | P       | 43.3 |
| 3 | <input type="checkbox"/> |       |            | 82.23   |       | P       | 12.4 |
| 4 | <input type="checkbox"/> |       |            | 160.00  |       | P       | 15.0 |
| 5 | <input type="checkbox"/> |       |            | 320.01  |       | P       | 7.5  |
| 6 | <input type="checkbox"/> |       |            | 613.36  |       | P       | 14.9 |
| 7 | <input type="checkbox"/> |       |            | 1237.86 |       | P       | 3.6  |
| 8 | <input type="checkbox"/> |       |            | 124.45  |       | P       | 11.1 |

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

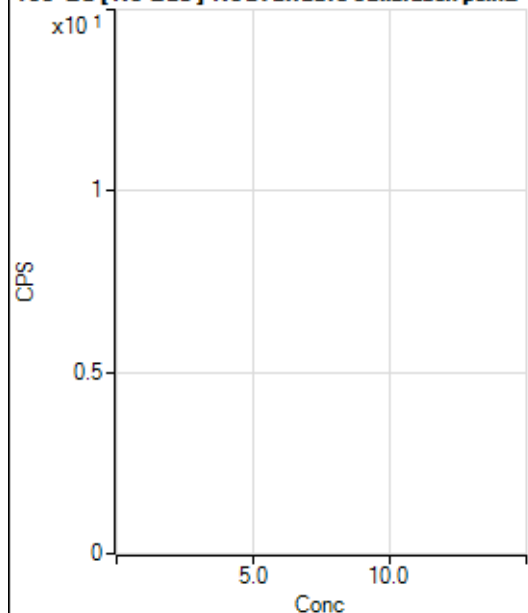
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00   |       | P       |      |
| 2 | <input type="checkbox"/> |       |            | 2.22   |       | P       | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 15.55  |       | P       | 44.6 |
| 4 | <input type="checkbox"/> |       |            | 33.33  |       | P       | 45.8 |
| 5 | <input type="checkbox"/> |       |            | 45.56  |       | P       | 11.2 |
| 6 | <input type="checkbox"/> |       |            | 126.67 |       | P       | 14.7 |
| 7 | <input type="checkbox"/> |       |            | 224.45 |       | P       | 3.7  |
| 8 | <input type="checkbox"/> |       |            | 46.67  |       | P       | 25.8 |

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

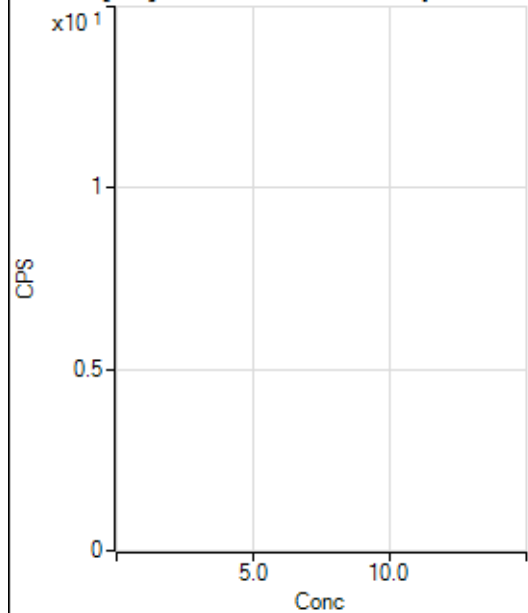
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | De<br>t | RSD   |
|---|--------------------------|-------|------------|---------|-------|---------|-------|
| 1 | <input type="checkbox"/> |       |            | 11.11   |       | P       | 43.3  |
| 2 | <input type="checkbox"/> |       |            | 2.78    |       | P       | 173.2 |
| 3 | <input type="checkbox"/> |       |            | 25.00   |       | P       | 66.7  |
| 4 | <input type="checkbox"/> |       |            | 88.89   |       | P       | 28.6  |
| 5 | <input type="checkbox"/> |       |            | 116.67  |       | P       | 43.5  |
| 6 | <input type="checkbox"/> |       |            | 297.24  |       | P       | 21.2  |
| 7 | <input type="checkbox"/> |       |            | 600.03  |       | P       | 10.5  |
| 8 | <input type="checkbox"/> |       |            | 1514.01 |       | P       | 3.5   |

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

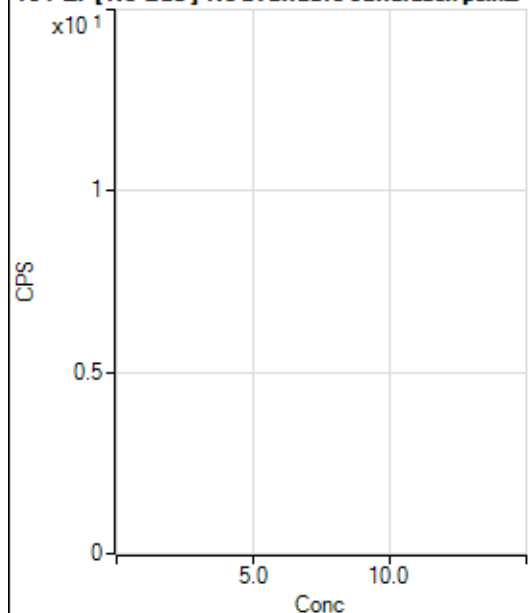
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 6.66   |       | P       | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P       | 86.6 |
| 3 | <input type="checkbox"/> |       |            | 33.33  |       | P       | 65.6 |
| 4 | <input type="checkbox"/> |       |            | 90.00  |       | P       | 11.1 |
| 5 | <input type="checkbox"/> |       |            | 135.56 |       | P       | 7.9  |
| 6 | <input type="checkbox"/> |       |            | 286.67 |       | P       | 22.2 |
| 7 | <input type="checkbox"/> |       |            | 496.68 |       | P       | 8.6  |
| 8 | <input type="checkbox"/> |       |            | 984.49 |       | P       | 7.6  |

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

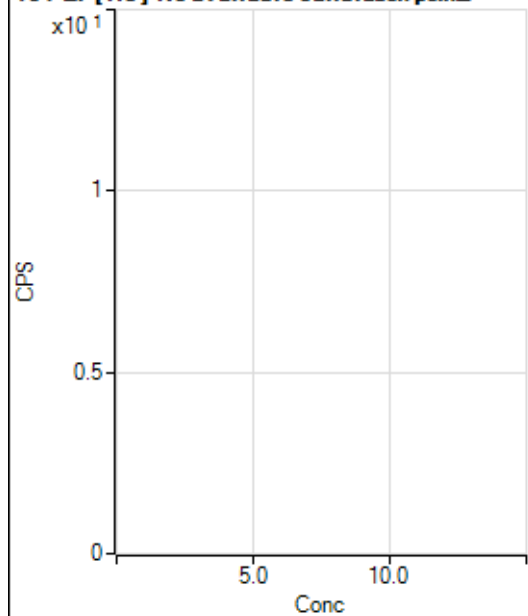
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|---------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 113.89  |       | P       | 40.3 |
| 2 | <input type="checkbox"/> |       |            | 122.23  |       | P       | 20.8 |
| 3 | <input type="checkbox"/> |       |            | 122.22  |       | P       | 17.2 |
| 4 | <input type="checkbox"/> |       |            | 180.56  |       | P       | 2.7  |
| 5 | <input type="checkbox"/> |       |            | 177.79  |       | P       | 18.9 |
| 6 | <input type="checkbox"/> |       |            | 266.68  |       | P       | 9.4  |
| 7 | <input type="checkbox"/> |       |            | 422.24  |       | P       | 13.1 |
| 8 | <input type="checkbox"/> |       |            | 1247.31 |       | P       | 2.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|---------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 405.57  |       | P       | 11.7 |
| 2 | <input type="checkbox"/> |       |            | 421.12  |       | P       | 11.3 |
| 3 | <input type="checkbox"/> |       |            | 430.01  |       | P       | 6.7  |
| 4 | <input type="checkbox"/> |       |            | 448.90  |       | P       | 4.8  |
| 5 | <input type="checkbox"/> |       |            | 481.13  |       | P       | 5.3  |
| 6 | <input type="checkbox"/> |       |            | 542.24  |       | P       | 11.8 |
| 7 | <input type="checkbox"/> |       |            | 628.91  |       | P       | 4.3  |
| 8 | <input type="checkbox"/> |       |            | 1143.39 |       | P       | 8.5  |

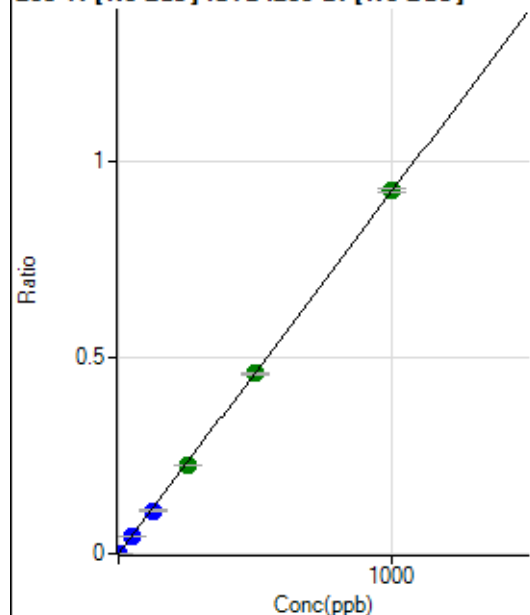
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 72.22  |       | P       | 24.0 |
| 2 | <input type="checkbox"/> |       |            | 83.33  |       | P       | 55.7 |
| 3 | <input type="checkbox"/> |       |            | 63.89  |       | P       | 15.1 |
| 4 | <input type="checkbox"/> |       |            | 119.45 |       | P       | 21.3 |
| 5 | <input type="checkbox"/> |       |            | 83.34  |       | P       | 26.5 |
| 6 | <input type="checkbox"/> |       |            | 94.45  |       | P       | 13.5 |
| 7 | <input type="checkbox"/> |       |            | 102.78 |       | P       | 33.8 |
| 8 | <input type="checkbox"/> |       |            | 163.90 |       | P       | 7.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | De<br>t | RSD  |
|---|--------------------------|-------|------------|--------|-------|---------|------|
| 1 | <input type="checkbox"/> |       |            | 42.22  |       | P       | 25.4 |
| 2 | <input type="checkbox"/> |       |            | 24.45  |       | P       | 28.4 |
| 3 | <input type="checkbox"/> |       |            | 43.33  |       | P       | 15.4 |
| 4 | <input type="checkbox"/> |       |            | 37.78  |       | P       | 5.1  |
| 5 | <input type="checkbox"/> |       |            | 51.11  |       | P       | 22.9 |
| 6 | <input type="checkbox"/> |       |            | 62.22  |       | P       | 12.4 |
| 7 | <input type="checkbox"/> |       |            | 65.56  |       | P       | 25.1 |
| 8 | <input type="checkbox"/> |       |            | 122.22 |       | P       | 16.4 |

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | De<br>t | RSD  |
|---|--------------------------|----------|------------|------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 133.34     | 0.0000 | P       | 28.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.905      | 7657.91    | 0.0008 | P       | 1.5  |
| 3 | <input type="checkbox"/> | 50.000   | 48.041     | 405454.88  | 0.0443 | P       | 2.6  |
| 4 | <input type="checkbox"/> | 125.000  | 118.633    | 1014713.34 | 0.1093 | P       | 1.8  |
| 5 | <input type="checkbox"/> | 250.000  | 244.256    | 2082573.49 | 0.2250 | A       | 1.3  |
| 6 | <input type="checkbox"/> | 500.000  | 498.549    | 4311421.71 | 0.4593 | A       | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.055   | 8437893.24 | 0.9241 | A       | 1.0  |
| 8 | <input type="checkbox"/> |          |            | 2300.26    | 0.0003 | P       | 11.2 |

$$y = 9.2126\text{E-}004 * x + 1.4803\text{E-}005$$

$$R = 1.0000$$

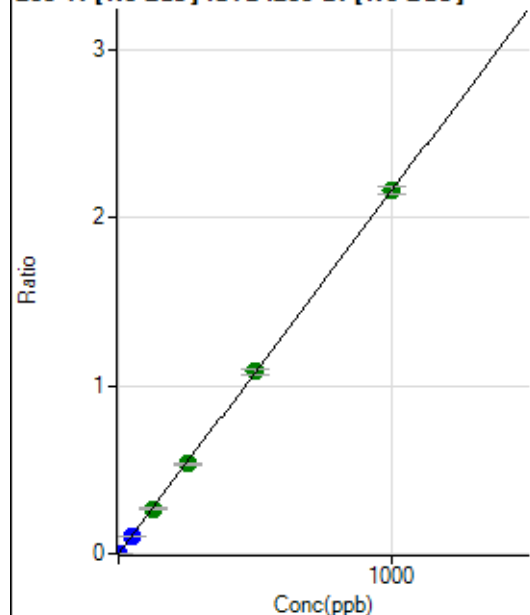
$$DL = 0.01383$$

$$BEC = 0.01607$$

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  | De<br>t | RSD |
|---|--------------------------|----------|------------|-------------|--------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 327.79      | 0.0000 | P       | 8.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.904      | 17942.79    | 0.0020 | P       | 2.7 |
| 3 | <input type="checkbox"/> | 50.000   | 48.233     | 953686.21   | 0.1041 | P       | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 124.458    | 2493938.71  | 0.2687 | A       | 2.8 |
| 5 | <input type="checkbox"/> | 250.000  | 247.464    | 4942929.02  | 0.5341 | A       | 1.1 |
| 6 | <input type="checkbox"/> | 500.000  | 501.503    | 10159332.43 | 1.0824 | A       | 2.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.038   | 19707540.20 | 2.1584 | A       | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 5565.18     | 0.0007 | P       | 5.0 |

$$y = 0.0022 * x + 3.6391\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.004175$$

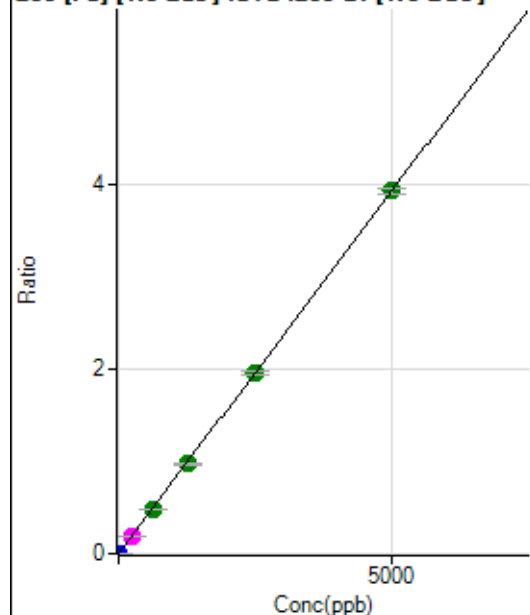
$$BEC = 0.01686$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 555.58      | 0.0001 | P       | 11.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.853      | 6599.86     | 0.0007 | P       | 1.5  |
| 3 | <input type="checkbox"/> | 250.000  | 243.978    | 1753583.57  | 0.1915 | M       | 5.2  |
| 4 | <input type="checkbox"/> | 625.000  | 613.977    | 4472116.97  | 0.4817 | A       | 2.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1237.393   | 8984014.55  | 0.9708 | A       | 1.1  |
| 6 | <input type="checkbox"/> | 2500.000 | 2494.923   | 18372972.86 | 1.9574 | A       | 2.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 5007.369   | 35870281.59 | 3.9285 | A       | 1.8  |
| 8 | <input type="checkbox"/> |          |            | 10459.75    | 0.0013 | P       | 6.5  |

$$y = 7.8453\text{E-}004 * x + 6.1681\text{E-}005$$

$$R = 1.0000$$

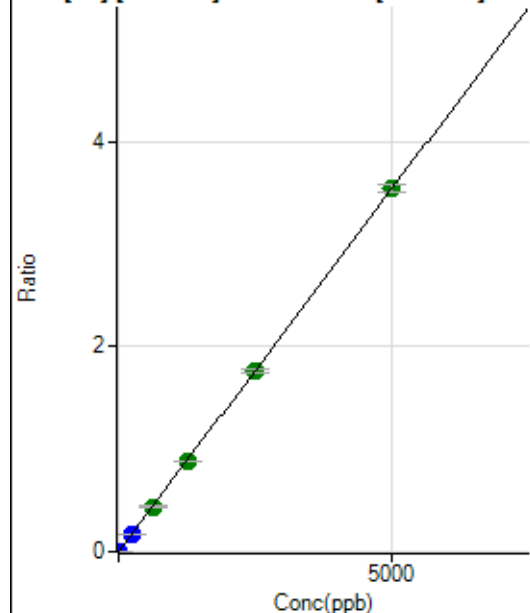
$$DL = 0.0274$$

$$BEC = 0.07862$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 546.32      | 0.0001 | P       | 12.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.809      | 5710.55     | 0.0006 | P       | 4.1  |
| 3 | <input type="checkbox"/> | 250.000  | 231.864    | 1500816.44  | 0.1639 | P       | 2.0  |
| 4 | <input type="checkbox"/> | 625.000  | 618.918    | 4060047.43  | 0.4374 | A       | 1.7  |
| 5 | <input type="checkbox"/> | 1250.000 | 1244.539   | 8137712.05  | 0.8794 | A       | 1.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2493.443   | 16536706.85 | 1.7618 | A       | 2.3  |
| 7 | <input type="checkbox"/> | 5000.000 | 5006.311   | 32297536.37 | 3.5372 | A       | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 8760.37     | 0.0011 | P       | 5.0  |

$$y = 7.0654\text{E-}004 * x + 6.0647\text{E-}005$$

$$R = 1.0000$$

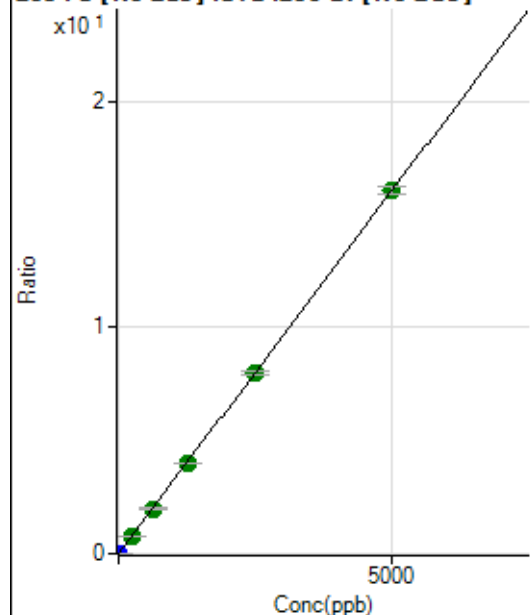
$$DL = 0.03308$$

$$BEC = 0.08584$$

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   | De<br>t | RSD |
|---|--------------------------|----------|------------|--------------|---------|---------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2279.75      | 0.0003  | P       | 1.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.844      | 26696.01     | 0.0030  | P       | 0.7 |
| 3 | <input type="checkbox"/> | 250.000  | 245.909    | 7215580.49   | 0.7879  | A       | 2.2 |
| 4 | <input type="checkbox"/> | 625.000  | 619.087    | 18410108.48  | 1.9832  | A       | 1.5 |
| 5 | <input type="checkbox"/> | 1250.000 | 1244.324   | 36883825.19  | 3.9858  | A       | 1.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2493.865   | 74980865.80  | 7.9880  | A       | 1.6 |
| 7 | <input type="checkbox"/> | 5000.000 | 5005.430   | 146386482.67 | 16.0324 | A       | 2.2 |
| 8 | <input type="checkbox"/> |          |            | 41520.22     | 0.0053  | P       | 4.7 |

$$y = 0.0032 * x + 2.5309E-004$$

$$R = 1.0000$$

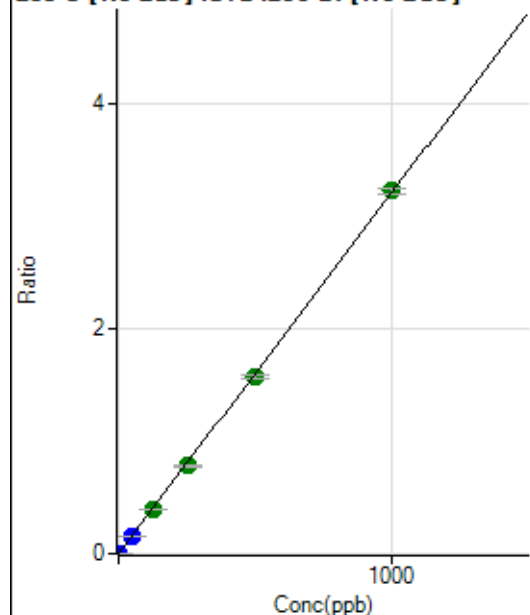
$$DL = 0.002986$$

$$BEC = 0.07902$$

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  | De<br>t | RSD  |
|---|--------------------------|----------|------------|-------------|--------|---------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.00      | 0.0000 | P       | 8.2  |
| 2 | <input type="checkbox"/> | 1.000    | 0.853      | 24734.60    | 0.0027 | P       | 2.3  |
| 3 | <input type="checkbox"/> | 50.000   | 45.881     | 1344741.60  | 0.1468 | P       | 1.9  |
| 4 | <input type="checkbox"/> | 125.000  | 122.003    | 3624552.29  | 0.3904 | A       | 3.1  |
| 5 | <input type="checkbox"/> | 250.000  | 244.660    | 7245595.04  | 0.7830 | A       | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 492.326    | 14788659.36 | 1.5755 | A       | 2.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.753   | 29388451.00 | 3.2186 | A       | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 3875.67     | 0.0005 | P       | 11.6 |

$$y = 0.0032 * x + 1.1101E-005$$

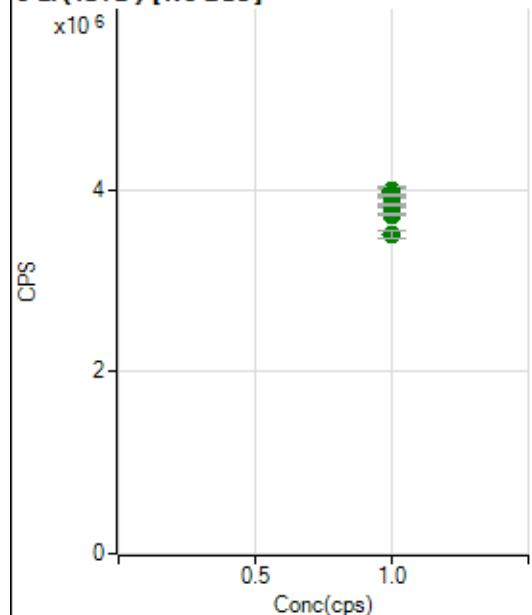
$$R = 0.9999$$

$$DL = 0.0008557$$

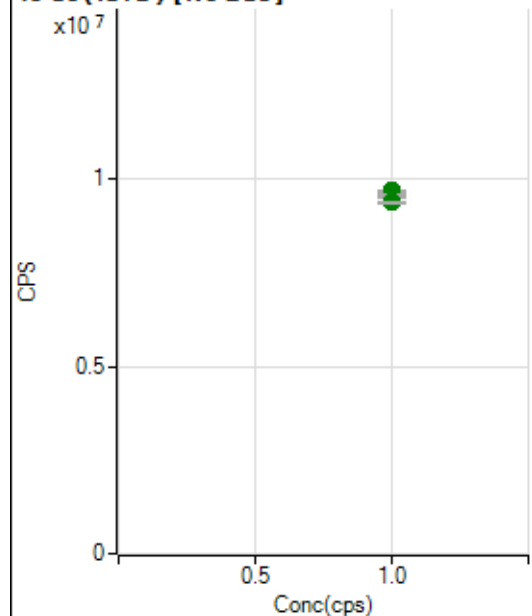
$$BEC = 0.003469$$

Weight: &lt;None&gt;

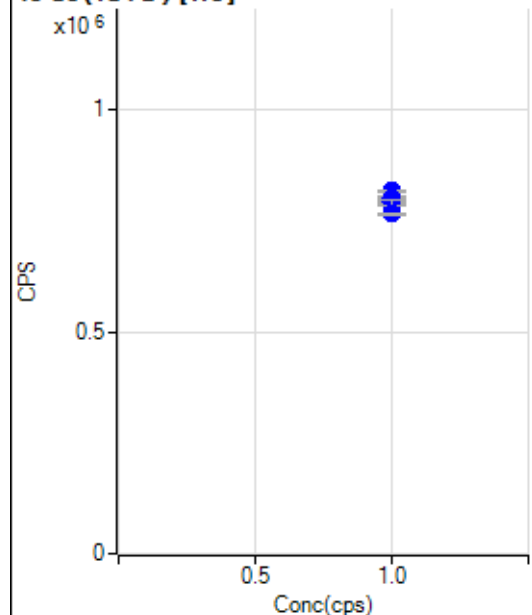
Min Conc: 0

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

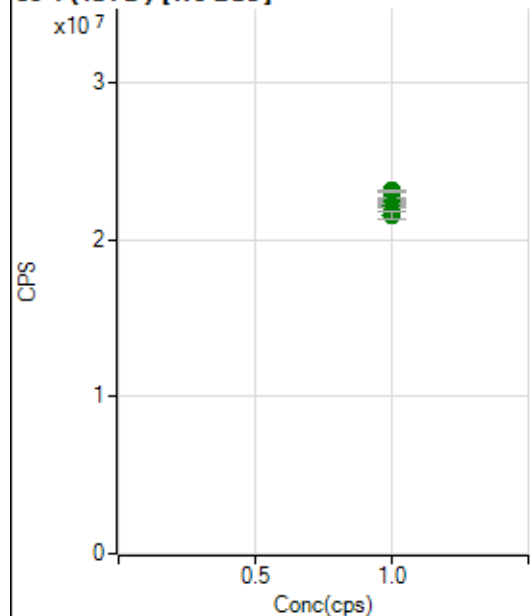
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3919552.58 |       | A       | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3978747.41 |       | A       | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3984975.81 |       | A       | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3940637.68 |       | A       | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3802684.25 |       | A       | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3825755.05 |       | A       | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3724318.42 |       | A       | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3508552.86 |       | A       | 2.5 |

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

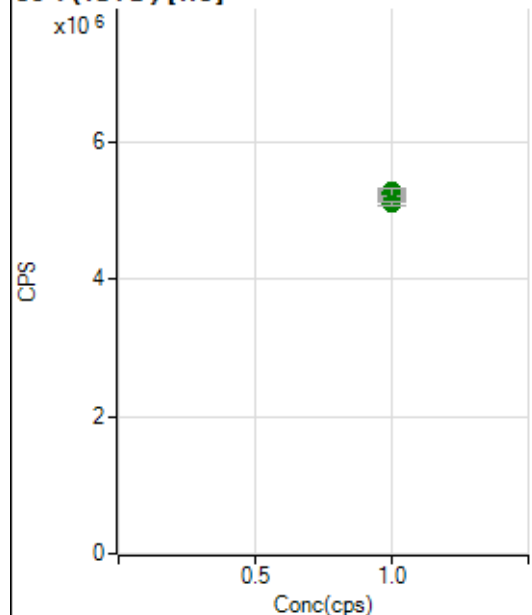
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9596646.87 |       | A       | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9557510.48 |       | A       | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9666618.81 |       | A       | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9684953.81 |       | A       | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9500169.86 |       | A       | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9667576.45 |       | A       | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9588140.48 |       | A       | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9372820.07 |       | A       | 0.9 |

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

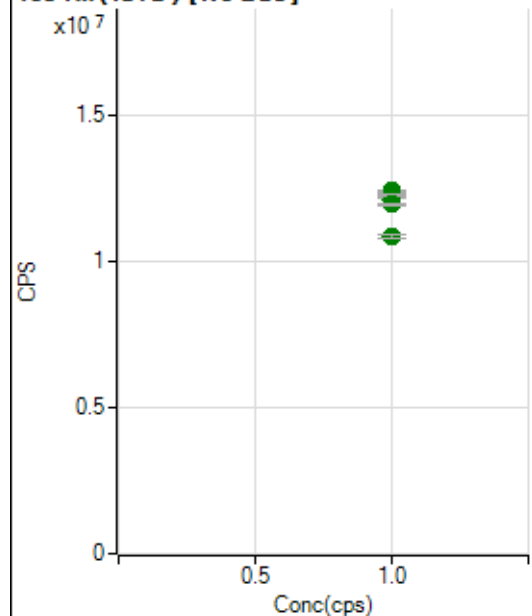
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-----------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 803988.32 |       | P       | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 818340.46 |       | P       | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 804210.15 |       | P       | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 795642.11 |       | P       | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 796918.83 |       | P       | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 790692.27 |       | P       | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 791723.31 |       | P       | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 766442.26 |       | P       | 0.5 |

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

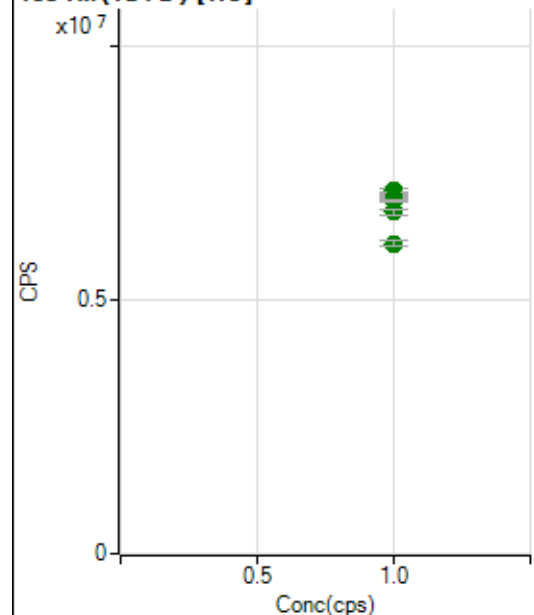
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 22179060.92 |       | A       | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 22159041.75 |       | A       | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 22337027.30 |       | A       | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 22578215.49 |       | A       | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 22631272.72 |       | A       | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 23078806.04 |       | A       | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 23078469.66 |       | A       | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 21545619.26 |       | A       | 2.0 |

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

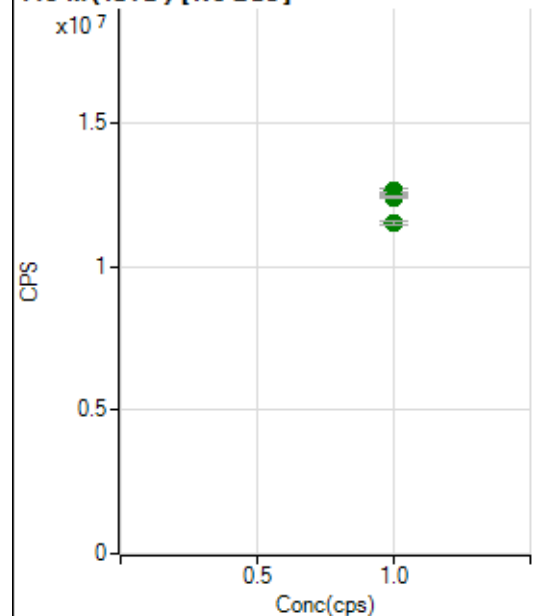
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5203342.91 |       | A       | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5264323.19 |       | A       | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5266219.75 |       | A       | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5226448.32 |       | A       | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5258199.16 |       | A       | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5295650.23 |       | A       | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5278891.83 |       | A       | 2.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5101259.85 |       | A       | 1.3 |

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

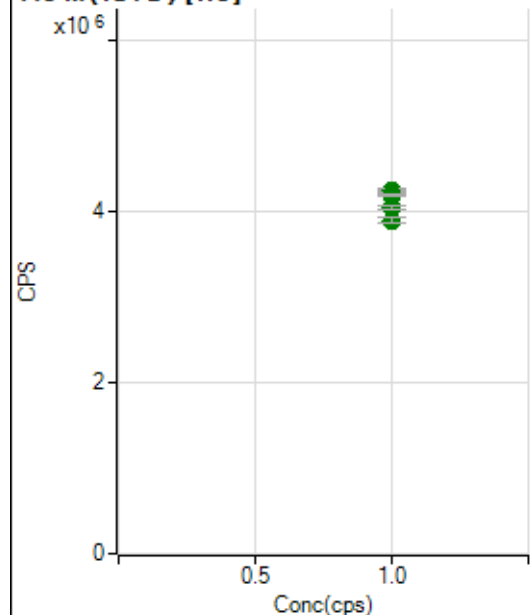
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12224800.24 |       | A       | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12415830.09 |       | A       | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12372119.82 |       | A       | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12311636.21 |       | A       | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12080878.85 |       | A       | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12267259.12 |       | A       | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 11958391.07 |       | A       | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10842224.91 |       | A       | 1.4 |

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

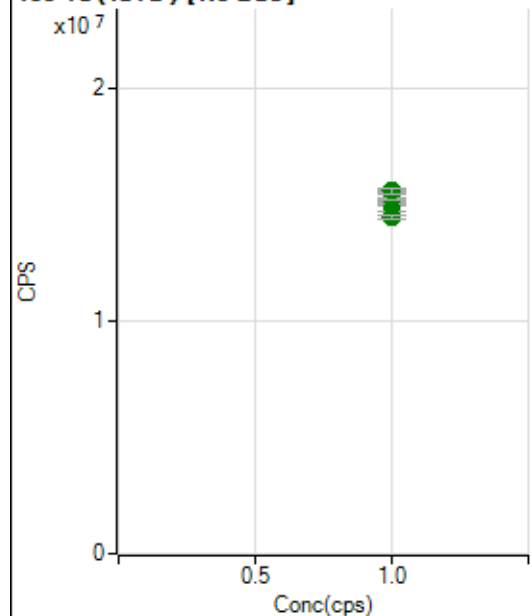
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7092811.91 |       | A       | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7158096.63 |       | A       | 1.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7123486.21 |       | A       | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7020192.88 |       | A       | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7006367.47 |       | A       | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6972616.77 |       | A       | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6735800.25 |       | A       | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6112455.67 |       | A       | 2.0 |

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

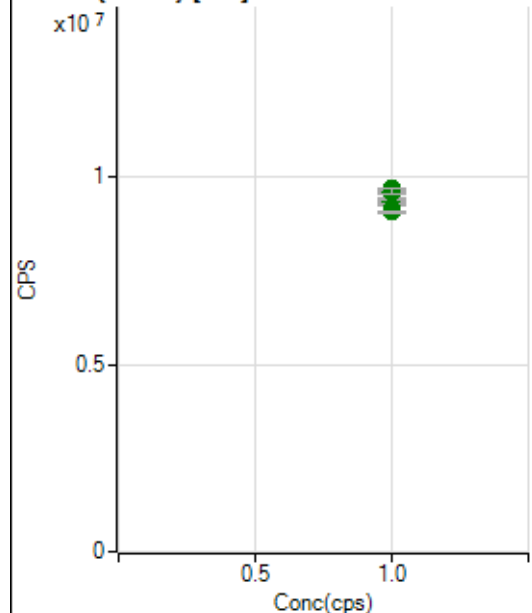
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12515527.64 |       | A       | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12549256.36 |       | A       | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12500271.51 |       | A       | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12655505.02 |       | A       | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 12489766.66 |       | A       | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12617655.41 |       | A       | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12427834.49 |       | A       | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11551723.63 |       | A       | 1.0 |

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

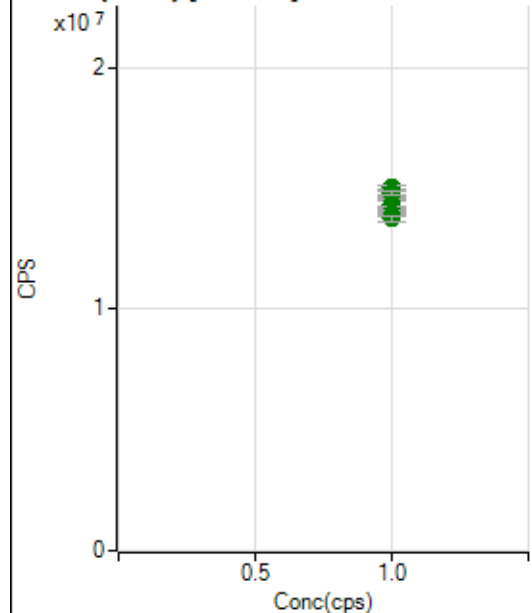
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4223352.24 |       | A       | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4232769.43 |       | A       | 1.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4204765.72 |       | A       | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4190512.98 |       | A       | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4191032.64 |       | A       | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4181731.62 |       | A       | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4042565.17 |       | A       | 1.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3884103.64 |       | A       | 1.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14704938.53 |       | A       | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14709513.53 |       | A       | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14994848.80 |       | A       | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15098072.28 |       | A       | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15257783.11 |       | A       | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15593315.46 |       | A       | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15593634.63 |       | A       | 1.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14475163.95 |       | A       | 1.0 |

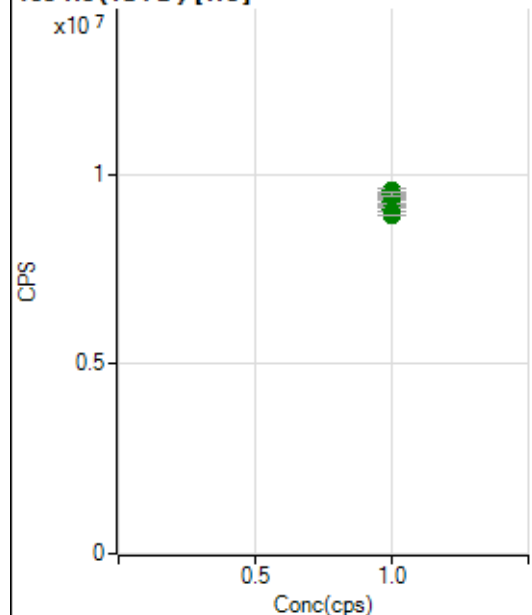
**159 Tb (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9261141.67 |       | A       | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9296805.48 |       | A       | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9356873.19 |       | A       | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9420934.03 |       | A       | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9615138.26 |       | A       | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9683968.54 |       | A       | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9616728.05 |       | A       | 1.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9067926.25 |       | A       | 0.4 |

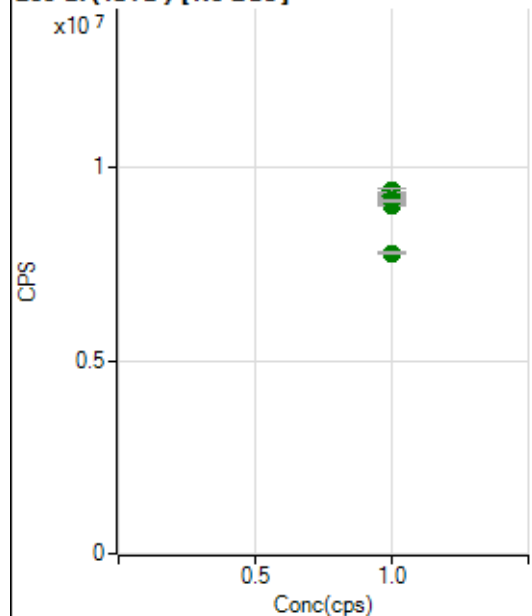
**165 Ho (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|-------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13966665.62 |       | A       | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14106518.12 |       | A       | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14357317.43 |       | A       | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14663672.56 |       | A       | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14606527.97 |       | A       | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15024630.19 |       | A       | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14815178.94 |       | A       | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13772229.24 |       | A       | 1.8 |

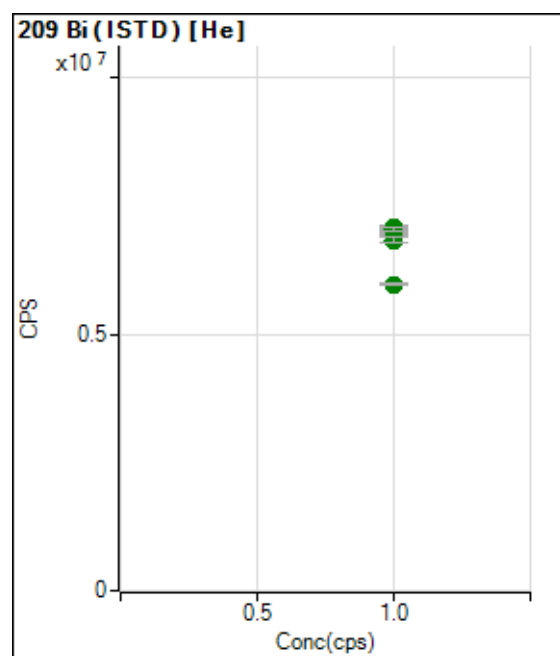


**165 Ho (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9073708.34 |       | A       | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9105829.45 |       | A       | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9146465.42 |       | A       | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9283147.16 |       | A       | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9412159.10 |       | A       | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9556199.30 |       | A       | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9474037.78 |       | A       | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8906506.67 |       | A       | 0.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9007898.27 |       | A       | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9026809.52 |       | A       | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9157439.38 |       | A       | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9283303.47 |       | A       | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9253764.31 |       | A       | 0.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9387863.05 |       | A       | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9131403.75 |       | A       | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7785026.83 |       | A       | 1.0 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | De<br>t | RSD |
|---|--------------------------|-------|------------|------------|-------|---------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6967503.65 |       | A       | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7000865.24 |       | A       | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7009779.82 |       | A       | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7025652.39 |       | A       | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7075420.73 |       | A       | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7048788.36 |       | A       | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6835035.32 |       | A       | 1.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5979454.01 |       | A       | 0.4 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7102722-MS.b

Acq. Date-Time 2022-10-27 11:07:19

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 11091  | 110914.79  |                            |             | 0.409  | 5.000           |
| 24   |              | 128915 | 1289145.08 |                            |             | 1.363  | 5.000           |
| 25   |              | 17403  | 174025.36  |                            |             | 0.186  | 5.000           |
| 26   |              | 20252  | 202524.23  |                            |             | 0.413  | 5.000           |
| 59   |              | 104826 | 1048256.06 |                            |             | 0.689  | 5.000           |
| 113  |              | 10429  | 104289.82  |                            |             | 0.599  | 5.000           |
| 115  |              | 133112 | 1331115.27 |                            |             | 1.122  | 5.000           |
| 206  |              | 26129  | 261292.26  |                            |             | 0.610  | 5.000           |
| 207  |              | 23973  | 239728.51  |                            |             | 0.571  | 5.000           |
| 208  |              | 56759  | 567589.99  |                            |             | 0.713  | 5.000           |
| 220  |              | 0      | 3.80       |                            |             | 37.908 |                 |

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

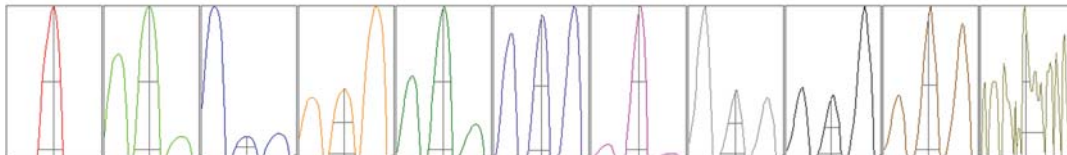
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 11055       | 11088       | 11165       | 11095       | 11053       |
| 24   | 126881      | 131037      | 130269      | 127547      | 128838      |
| 25   | 17359       | 17437       | 17416       | 17379       | 17421       |
| 26   | 20181       | 20322       | 20331       | 20147       | 20281       |
| 59   | 104379      | 103798      | 105556      | 105304      | 105091      |
| 113  | 10394       | 10525       | 10411       | 10452       | 10363       |
| 115  | 134536      | 134282      | 132883      | 130771      | 133087      |
| 206  | 26041       | 26226       | 26348       | 25943       | 26088       |
| 207  | 24065       | 23996       | 24124       | 23779       | 23900       |
| 208  | 56908       | 56333       | 57384       | 56592       | 56578       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 20695.24    | 9.00   | 8.90 - 9.10     |             |
| 24   | 217773.78   | 23.95  | 23.90 - 24.10   |             |
| 25   | 29046.95    | 24.95  | 24.90 - 25.10   |             |
| 26   | 33400.94    | 25.95  | 25.90 - 26.10   |             |
| 59   | 204994.86   | 59.00  | 58.90 - 59.10   |             |
| 113  | 23513.67    | 113.05 | 112.90 - 113.10 |             |
| 115  | 300211.74   | 115.05 | 114.90 - 115.10 |             |
| 206  | 58794.22    | 206.00 | 205.90 - 206.10 |             |
| 207  | 50359.86    | 206.95 | 206.90 - 207.10 |             |
| 208  | 122256.24   | 207.95 | 207.90 - 208.10 |             |
| 220  | 0.65        | 219.95 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.57  | 0.780 | 0.900           |             |
| 24   | 0.62  | 0.823 | 0.900           |             |
| 25   | 0.62  | 0.791 | 0.900           |             |
| 26   | 0.64  | 0.825 | 0.900           |             |
| 59   | 0.52  | 0.762 | 0.900           |             |
| 113  | 0.45  | 0.682 | 0.900           |             |
| 115  | 0.45  | 0.678 | 0.900           |             |
| 206  | 0.44  | 0.764 | 0.900           |             |
| 207  | 0.47  | 0.740 | 0.900           |             |
| 208  | 0.47  | 0.762 | 0.900           |             |
| 220  | 0.25  | 0.699 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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  | 0.0 V    | Omega Lens    | 9.2 V | Deflect    | 15.2 V |
| Extract 2  | -135.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -65 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

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

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 123 | Axis Gain   | 1.0001 | QP Bias | -3.0 V |
| Mass Offset | 125 | Axis Offset | -0.01  |         |        |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.6 mm | Torch V | 0.5 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.2 mV | Analog HV | 2213 V | Pulse HV | 1411 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 34418 | 344181.31 |                            |             | 0.451 |                 |
| 89   |              | 52066 | 520659.01 |                            |             | 0.417 |                 |
| 205  |              | 40572 | 405721.74 |                            |             | 0.893 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 34666       | 34342       | 34247       | 34421       | 34415       |
| 89   | 52392       | 52154       | 51929       | 51835       | 52020       |
| 205  | 41109       | 40605       | 40213       | 40261       | 40673       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |        |                |            |               |            |
|--------------|--------|----------------|------------|---------------|------------|
| Plasma Mode  | ---    | Nebulizer Gas  | 0.78 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.80 V | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 9.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |       |            |        |         |       |
|-----------|-------|------------|--------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 10.5 V | Deflect | 3.4 V |
|-----------|-------|------------|--------|---------|-------|

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|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -150.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -85 V    | Cell Exit     | -60 V |            |       |

## Cell Parameters

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

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 123 | Axis Gain   | 1.0001 | QP Bias | -13.0 V |
| Mass Offset | 125 | Axis Offset | -0.01  |         |         |

## Hardware Settings

### Torch

|         |         |         |        |
|---------|---------|---------|--------|
| Torch H | -0.6 mm | Torch V | 0.5 mm |
|---------|---------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 3.2 mV | Analog HV | 2213 V | Pulse HV | 1411 V |
|---------------|--------|-----------|--------|----------|--------|