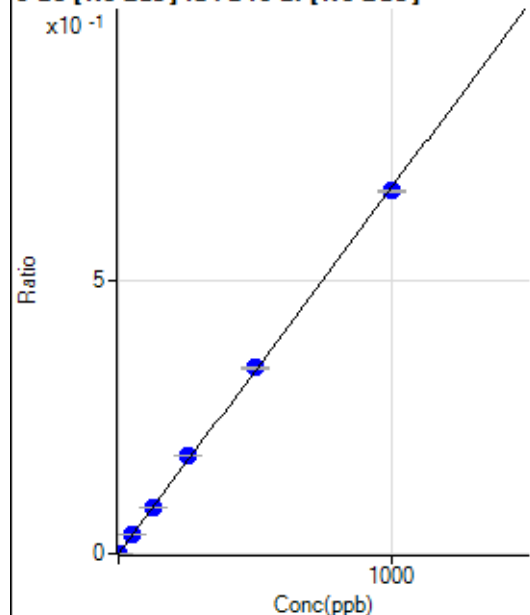


Batch Folder: D:\ICP-MS Data\P7091019 MS.b\  
Analysis File: P7091019 MS.batch.bin  
DA Date-Time: 2019-09-11 03:04:48  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 002CALB.d          | S00         | 2019-09-10 11:38:43 |
| 2     | 003CALS.d          | S02         | 2019-09-10 11:42:18 |
| 3     | 004CALS.d          | S03         | 2019-09-10 11:47:13 |
| 4     | 005CALS.d          | S04         | 2019-09-10 11:51:21 |
| 5     | 006CALS.d          | S05         | 2019-09-10 11:55:09 |
| 6     | 007CALS.d          | S06         | 2019-09-10 11:58:56 |
| 7     | 008CALS.d          | S07         | 2019-09-10 12:02:41 |
| 8     | 009CALS.d          | S08         | 2019-09-10 12:06:29 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 101.12     | 0.0000 | P   | 6.1  |
| 2 | <input type="checkbox"/> | 1.000    | 1.014      | 2766.96    | 0.0007 | P   | 6.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.239     | 138890.21  | 0.0350 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 128.107    | 330794.81  | 0.0858 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 267.827    | 637586.45  | 0.1793 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 507.162    | 1149180.99 | 0.3396 | P   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.462    | 2217245.16 | 0.6638 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 325.56     | 0.0001 | P   | 11.6 |

$$y = 6.6949\text{E-}004 * x + 2.5858\text{E-}005$$

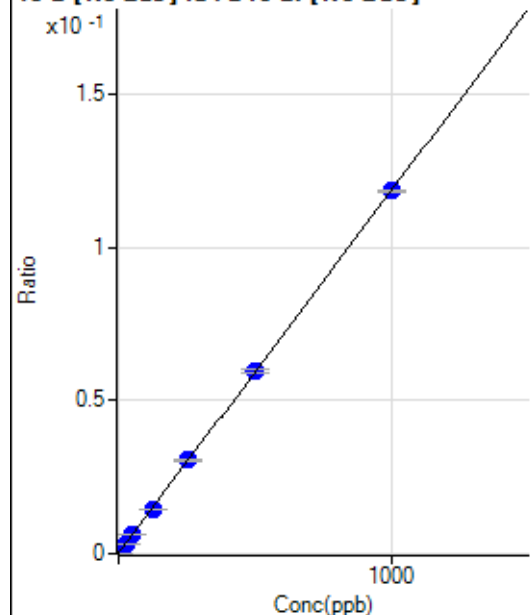
$$R = 0.9998$$

$$DL = 0.007089$$

$$BEC = 0.03862$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 838.95    | 0.0002 | P   | 7.0 |
| 2 | <input type="checkbox"/> | 25.000   | 23.028     | 11546.54  | 0.0029 | P   | 3.3 |
| 3 | <input type="checkbox"/> | 50.000   | 51.306     | 24971.47  | 0.0063 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 125.000  | 121.361    | 56260.97  | 0.0146 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 255.557    | 108397.65 | 0.0305 | P   | 1.7 |
| 6 | <input type="checkbox"/> | 500.000  | 500.995    | 201574.86 | 0.0596 | P   | 1.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.552    | 395845.71 | 0.1185 | P   | 0.9 |
| 8 | <input type="checkbox"/> |          |            | 19179.69  | 0.0059 | P   | 9.9 |

$$y = 1.1846\text{E-}004 * x + 2.1465\text{E-}004$$

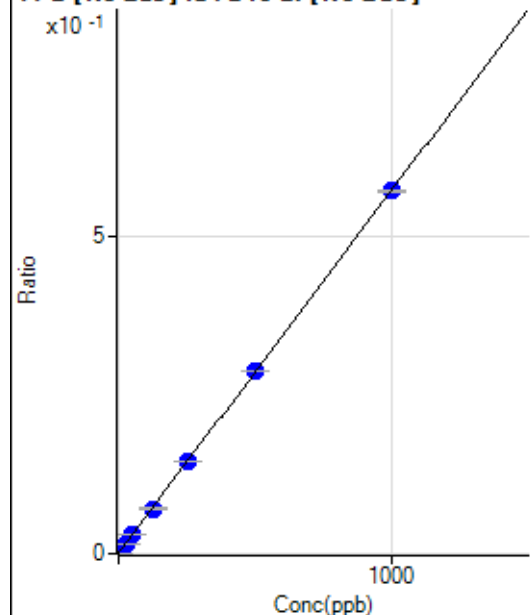
$$R = 1.0000$$

$$DL = 0.3796$$

$$BEC = 1.812$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4178.53    | 0.0011 | P   | 6.2 |
| 2 | <input type="checkbox"/> | 25.000   | 23.685     | 57421.34   | 0.0146 | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.496     | 116732.05  | 0.0294 | P   | 0.4 |
| 4 | <input type="checkbox"/> | 125.000  | 121.959    | 273404.22  | 0.0709 | P   | 1.6 |
| 5 | <input type="checkbox"/> | 250.000  | 253.718    | 520399.79  | 0.1464 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 501.134    | 974890.05  | 0.2881 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.942    | 1914485.54 | 0.5732 | P   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 92986.47   | 0.0285 | P   | 7.0 |

$$y = 5.7269\text{E-}004 * x + 0.0011$$

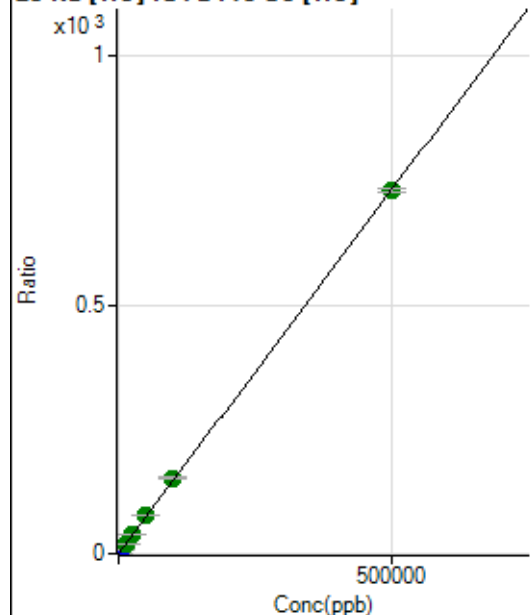
$$R = 1.0000$$

$$DL = 0.3466$$

$$BEC = 1.867$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|--------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 31133.21     | 0.0657   | P   | 3.0 |
| 2 | <input type="checkbox"/> | 500.000   | 499.906    | 385771.78    | 0.7960   | P   | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5077.213   | 3723581.59   | 7.4835   | P   | 3.5 |
| 4 | <input type="checkbox"/> | 12500.000 | 12963.497  | 8573705.75   | 19.0052  | A   | 1.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 27212.785  | 17034798.82  | 39.8233  | A   | 0.3 |
| 6 | <input type="checkbox"/> | 50000.000 | 51934.914  | 32376099.68  | 75.9422  | A   | 1.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 104288.37  | 64646204.23  | 152.4301 | A   | 0.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 498825.83  | 335107660.27 | 728.8460 | A   | 1.1 |

$$y = 0.0015 * x + 0.0657$$

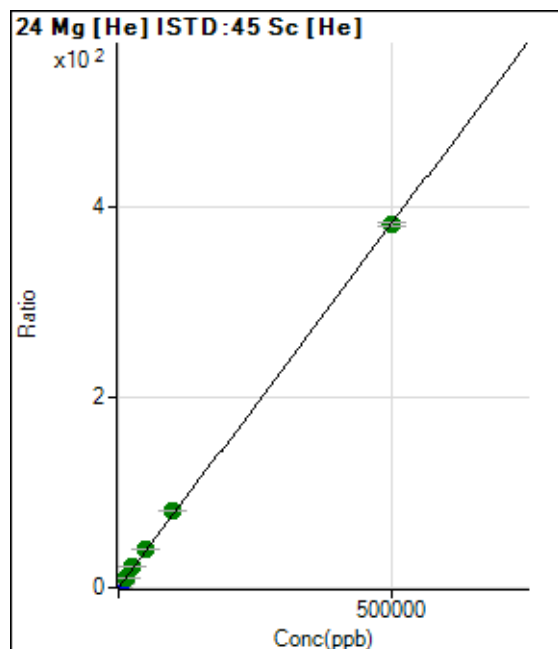
$$R = 1.0000$$

$$DL = 4.05$$

$$BEC = 44.96$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS          | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|--------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 397.24       | 0.0008   | P   | 30.6 |
| 2 | <input type="checkbox"/> | 500.000   | 527.603    | 195496.15    | 0.4034   | P   | 0.6  |
| 3 | <input type="checkbox"/> | 5000.000  | 5223.371   | 1983370.05   | 3.9863   | P   | 3.8  |
| 4 | <input type="checkbox"/> | 12500.000 | 13383.191  | 4607204.75   | 10.2123  | A   | 0.9  |
| 5 | <input type="checkbox"/> | 25000.000 | 27850.614  | 9090182.84   | 21.2511  | A   | 0.5  |
| 6 | <input type="checkbox"/> | 50000.000 | 52898.408  | 17207960.80  | 40.3627  | A   | 1.1  |
| 7 | <input type="checkbox"/> | 100000.00 | 105680.24  | 34197923.68  | 80.6356  | A   | 0.9  |
| 8 | <input type="checkbox"/> | 500000.00 | 498407.23  | 174849549.74 | 380.2891 | A   | 0.9  |

$$y = 7.6301\text{E-}004 * x + 8.3818\text{E-}004$$

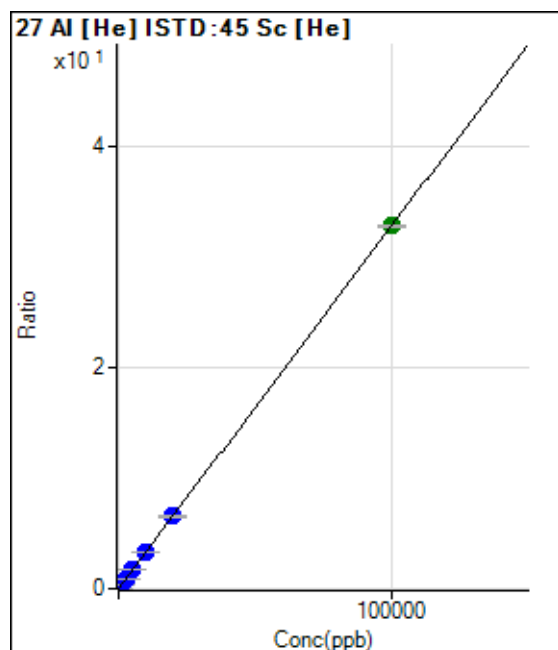
$$R = 0.9999$$

$$DL = 1.008$$

$$BEC = 1.099$$

Weight: <None>

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 38.89       | 0.0001  | P   | 12.5 |
| 2 | <input type="checkbox"/> | 20.000    | 20.070     | 3231.05     | 0.0067  | P   | 4.6  |
| 3 | <input type="checkbox"/> | 1000.000  | 991.009    | 161801.60   | 0.3252  | P   | 4.1  |
| 4 | <input type="checkbox"/> | 2500.000  | 2519.750   | 373010.68   | 0.8268  | P   | 0.8  |
| 5 | <input type="checkbox"/> | 5000.000  | 5200.964   | 729895.73   | 1.7064  | P   | 1.0  |
| 6 | <input type="checkbox"/> | 10000.000 | 9916.685   | 1387173.90  | 3.2535  | P   | 0.5  |
| 7 | <input type="checkbox"/> | 20000.000 | 19891.032  | 2767666.23  | 6.5259  | P   | 0.2  |
| 8 | <input type="checkbox"/> | 100000.00 | 100019.67  | 15087432.46 | 32.8145 | A   | 0.7  |

$$y = 3.2808\text{E-}004 * x + 8.2061\text{E-}005$$

$$R = 1.0000$$

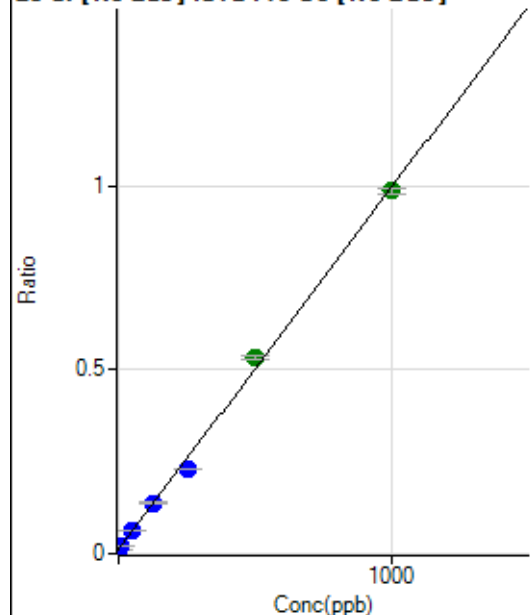
$$DL = 0.09361$$

$$BEC = 0.2501$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 121196.73  | 0.0115 | P   | 1.4 |
| 2 | <input type="checkbox"/> | 10.000   | 8.151      | 204825.35  | 0.0195 | P   | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 52.011     | 669299.53  | 0.0626 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 129.023    | 1445562.23 | 0.1383 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 222.633    | 2233257.34 | 0.2304 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 500.000  | 531.289    | 4971231.23 | 0.5339 | A   | 1.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 990.612    | 9184440.31 | 0.9856 | A   | 1.7 |
| 8 | <input type="checkbox"/> |          |            | 280047.54  | 0.0295 | P   | 3.4 |

$$y = 9.8337E-004 * x + 0.0115$$

$$R = 0.9988$$

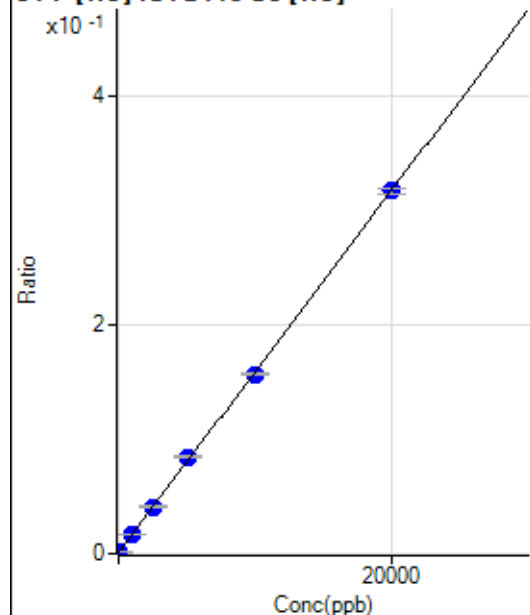
$$DL = 0.4871$$

$$BEC = 11.65$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -20.746    | 291.68    | 0.0006 | P   | 3.0  |
| 2 | <input type="checkbox"/> | 0.000     | 20.746     | 616.70    | 0.0013 | P   | 5.9  |
| 3 | <input type="checkbox"/> | 1000.000  | 1032.773   | 8605.62   | 0.0173 | P   | 4.3  |
| 4 | <input type="checkbox"/> | 2500.000  | 2507.511   | 18342.44  | 0.0406 | P   | 4.6  |
| 5 | <input type="checkbox"/> | 5000.000  | 5282.268   | 36178.34  | 0.0846 | P   | 1.7  |
| 6 | <input type="checkbox"/> | 10000.000 | 9874.812   | 67062.71  | 0.1573 | P   | 1.6  |
| 7 | <input type="checkbox"/> | 20000.000 | 19989.449  | 134628.17 | 0.3175 | P   | 1.9  |
| 8 | <input type="checkbox"/> |           |            | 325.02    | 0.0007 | P   | 25.2 |

$$y = 1.5834E-005 * x + 9.4393E-004$$

$$R = 0.9999$$

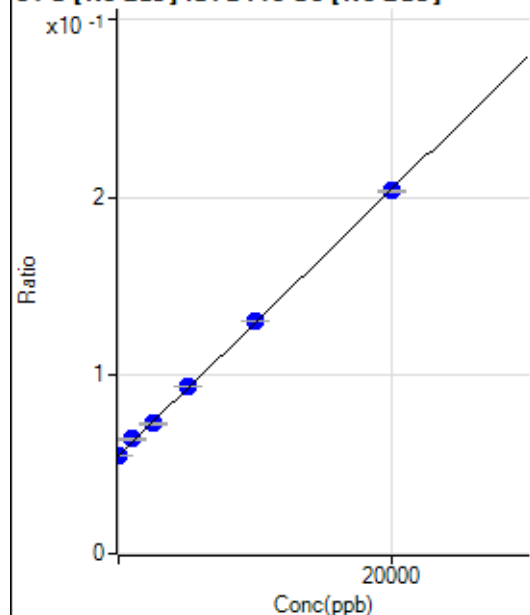
$$DL = 8.827$$

$$BEC = 59.61$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -8.220     | 581845.90  | 0.0550 | P   | 0.9 |
| 2 | <input type="checkbox"/> | 0.000     | 8.220      | 579780.43  | 0.0551 | P   | 0.5 |
| 3 | <input type="checkbox"/> | 1000.000  | 1266.450   | 689954.09  | 0.0645 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 2500.000  | 2416.732   | 764447.16  | 0.0731 | P   | 1.3 |
| 5 | <input type="checkbox"/> | 5000.000  | 5160.789   | 908256.54  | 0.0937 | P   | 0.1 |
| 6 | <input type="checkbox"/> | 10000.000 | 10146.397  | 1220045.76 | 0.1310 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 20000.000 | 19883.690  | 1900599.00 | 0.2039 | P   | 0.9 |
| 8 | <input type="checkbox"/> |           |            | 552265.48  | 0.0582 | P   | 0.2 |

$$y = 7.4885\text{E-}006 * x + 0.0550$$

R = 0.9998

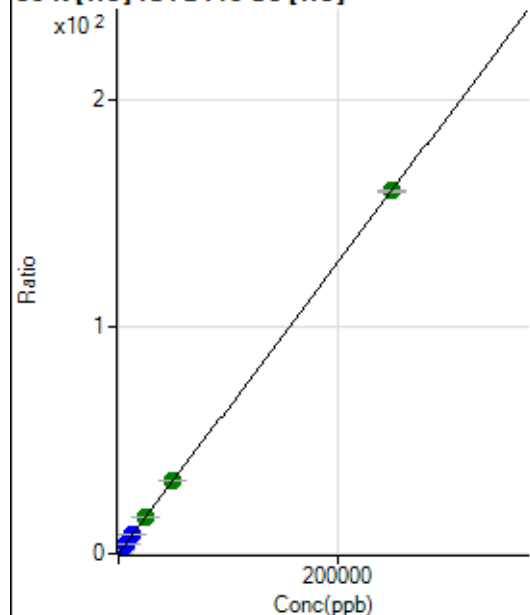
DL = 153.1

BEC = 7351

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD |
|---|--------------------------|-----------|------------|-------------|----------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 21702.94    | 0.0458   | P   | 1.7 |
| 2 | <input type="checkbox"/> | 500.000   | 490.399    | 174392.19   | 0.3599   | P   | 0.2 |
| 3 | <input type="checkbox"/> | 2500.000  | 2446.051   | 802230.47   | 1.6123   | P   | 3.7 |
| 4 | <input type="checkbox"/> | 6250.000  | 6244.404   | 1824813.71  | 4.0449   | P   | 1.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12968.916  | 3572462.75  | 8.3515   | P   | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 24802.602  | 6791935.39  | 15.9302  | A   | 0.5 |
| 7 | <input type="checkbox"/> | 50000.000 | 49818.700  | 13550749.61 | 31.9514  | A   | 0.4 |
| 8 | <input type="checkbox"/> | 250000.00 | 250033.25  | 73645596.79 | 160.1757 | A   | 0.6 |

$$y = 6.4043\text{E-}004 * x + 0.0458$$

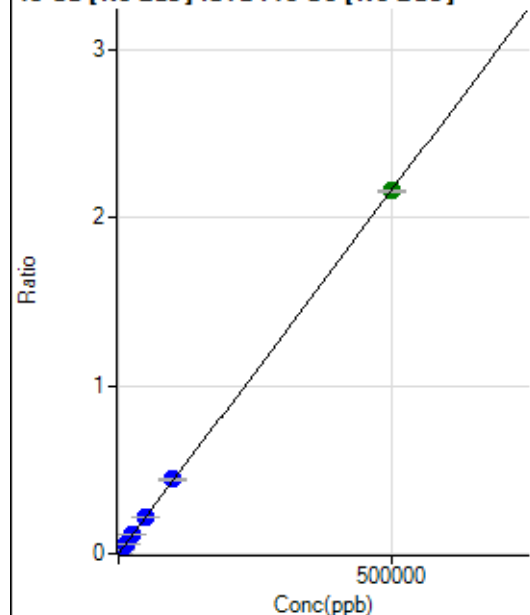
R = 1.0000

DL = 3.696

BEC = 71.5

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 158.34      | 0.0000 | P    | 18.2 |
| 2 | <input type="checkbox"/> | 500.000   | 491.864    | 22545.76    | 0.0021 | P    | 1.5  |
| 3 | <input type="checkbox"/> | 5000.000  | 5240.756   | 242589.15   | 0.0227 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 12500.000 | 12630.527  | 571222.45   | 0.0547 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 25000.000 | 26289.226  | 1102720.01  | 0.1138 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 50000.000 | 51104.496  | 2058856.62  | 0.2211 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 100000.00 | 102046.39  | 4114480.17  | 0.4415 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 500000.00 | 499410.14  | 20484627.19 | 2.1606 | A    | 0.3  |

$$y = 4.3263\text{E-}006 * x + 1.4962\text{E-}005$$

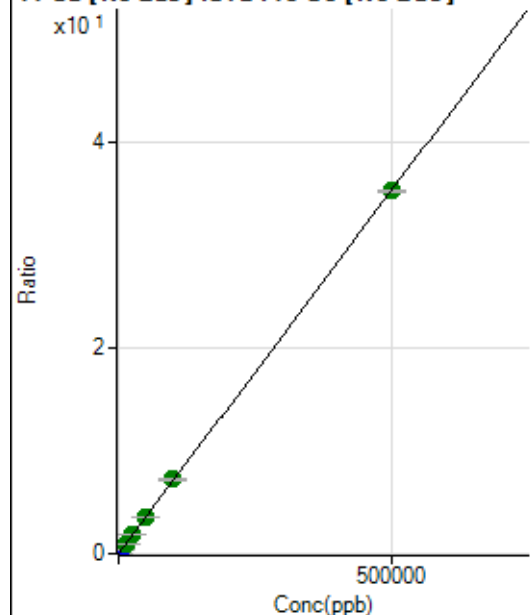
$$R = 1.0000$$

$$DL = 1.888$$

$$BEC = 3.458$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS          | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|--------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 17517.22     | 0.0017  | P    | 5.1 |
| 2 | <input type="checkbox"/> | 500.000   | 488.035    | 379912.42    | 0.0361  | P    | 0.6 |
| 3 | <input type="checkbox"/> | 5000.000  | 5246.487   | 3977947.57   | 0.3721  | P    | 1.0 |
| 4 | <input type="checkbox"/> | 12500.000 | 12706.307  | 9392376.17   | 0.8987  | A    | 0.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 26373.030  | 18065655.09  | 1.8636  | A    | 0.5 |
| 6 | <input type="checkbox"/> | 50000.000 | 51207.055  | 33677880.27  | 3.6169  | A    | 0.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 102083.02  | 67180284.83  | 7.2087  | A    | 0.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 499386.42  | 334273457.47 | 35.2583 | A    | 0.5 |

$$y = 7.0600\text{E-}005 * x + 0.0017$$

$$R = 1.0000$$

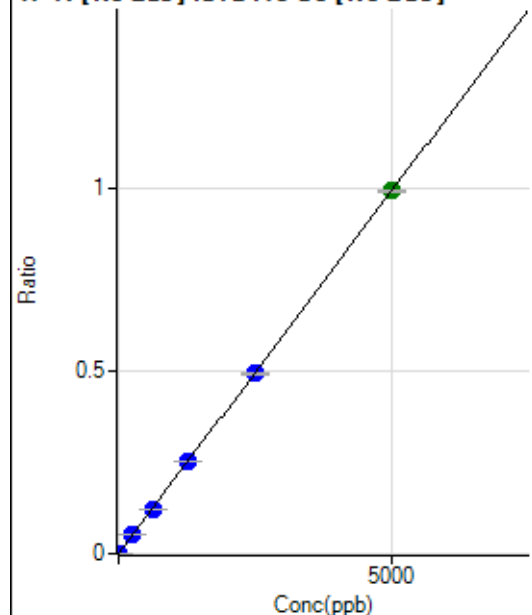
$$DL = 3.581$$

$$BEC = 23.45$$

Weight: &lt;None&gt;

Min Conc: 0

47 Ti [No Gas] ISTD:45 Sc [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 100.00     | 0.0000 | P   | 33.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.910      | 10342.94   | 0.0010 | P   | 2.3  |
| 3 | <input type="checkbox"/> | 250.000  | 254.021    | 538665.90  | 0.0504 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 625.000  | 615.509    | 1275655.50 | 0.1221 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1280.861   | 2462252.81 | 0.2540 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2480.438   | 4579857.74 | 0.4919 | P   | 1.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 5003.051   | 9245655.50 | 0.9921 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 2028.00    | 0.0002 | P   | 9.4  |

$$y = 1.9830E-004 * x + 9.4460E-006$$

$$R = 1.0000$$

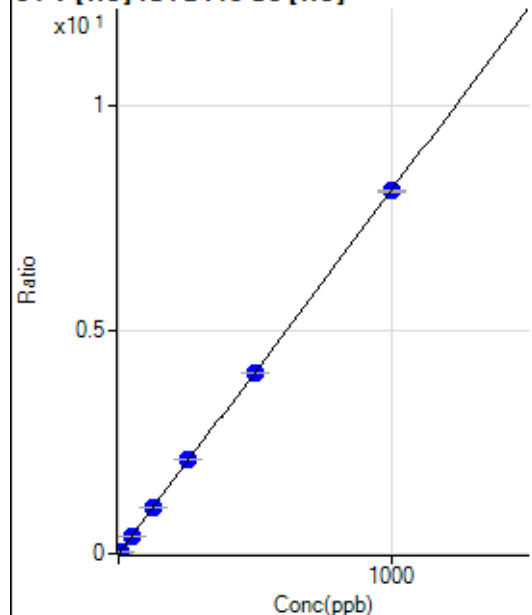
$$DL = 0.04725$$

$$BEC = 0.04764$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89       | 0.0000 | P   | 86.6 |
| 2 | <input type="checkbox"/> | 5.000    | 5.137      | 20212.98   | 0.0417 | P   | 2.4  |
| 3 | <input type="checkbox"/> | 50.000   | 49.141     | 198439.79  | 0.3988 | P   | 3.8  |
| 4 | <input type="checkbox"/> | 125.000  | 125.552    | 459690.07  | 1.0190 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 260.942    | 905877.83  | 2.1178 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 498.337    | 1724325.89 | 4.0444 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.069    | 3435264.91 | 8.1001 | P   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 600.03     | 0.0013 | P   | 12.6 |

$$y = 0.0081 * x + 1.8752E-005$$

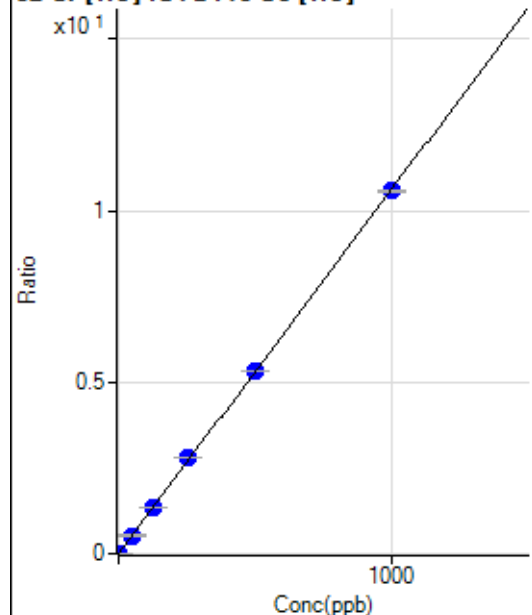
$$R = 0.9999$$

$$DL = 0.006003$$

$$BEC = 0.002311$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 953.38     | 0.0020  | P   | 2.0 |
| 2 | <input type="checkbox"/> | 2.000    | 1.959      | 11052.10   | 0.0228  | P   | 2.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.871     | 264411.28  | 0.5314  | P   | 3.6 |
| 4 | <input type="checkbox"/> | 125.000  | 126.855    | 608408.39  | 1.3486  | P   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 262.882    | 1194529.69 | 2.7926  | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 500.486    | 2265992.09 | 5.3148  | P   | 0.4 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.311    | 4486235.11 | 10.5782 | P   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 138417.85  | 0.3011  | P   | 0.1 |

$$y = 0.0106 * x + 0.0020$$

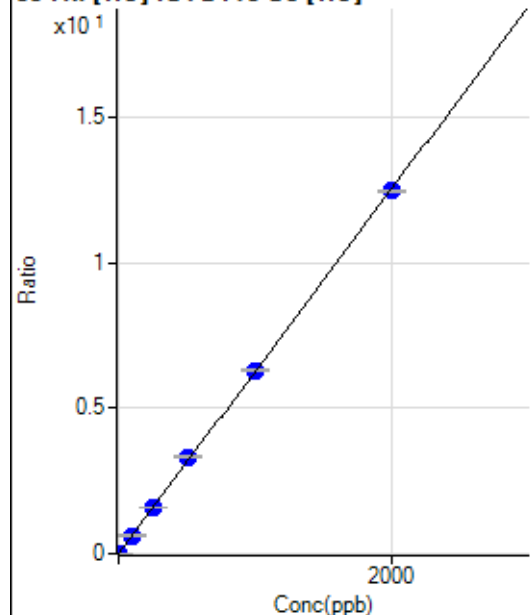
$$R = 0.9999$$

$$DL = 0.01152$$

$$BEC = 0.1895$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 73.33      | 0.0002  | P   | 12.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.033      | 3212.63    | 0.0066  | P   | 2.5  |
| 3 | <input type="checkbox"/> | 100.000  | 99.247     | 309637.55  | 0.6224  | P   | 4.1  |
| 4 | <input type="checkbox"/> | 250.000  | 253.697    | 717628.31  | 1.5907  | P   | 1.3  |
| 5 | <input type="checkbox"/> | 500.000  | 530.710    | 1423252.29 | 3.3274  | P   | 0.9  |
| 6 | <input type="checkbox"/> | 1000.000 | 1003.862   | 2683290.41 | 6.2937  | P   | 0.8  |
| 7 | <input type="checkbox"/> | 2000.000 | 1989.967   | 5291047.28 | 12.4760 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 18887.91   | 0.0411  | P   | 1.0  |

$$y = 0.0063 * x + 1.5474E-004$$

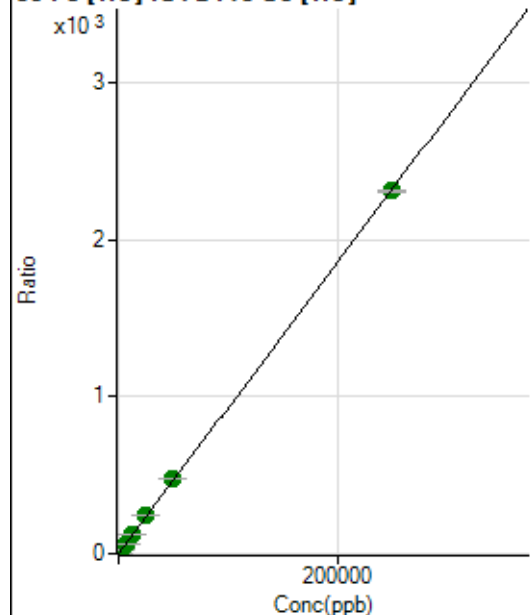
$$R = 0.9999$$

$$DL = 0.008964$$

$$BEC = 0.02468$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS          | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|--------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 3072.64      | 0.0065    | P    | 1.4 |
| 2 | <input type="checkbox"/> | 50.000    | 53.155     | 241620.59    | 0.4986    | P    | 1.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2562.975   | 11809302.70  | 23.7348   | A    | 3.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6576.163   | 27469485.34  | 60.8895   | A    | 1.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 13757.018  | 54481192.42  | 127.3708  | A    | 1.1 |
| 6 | <input type="checkbox"/> | 25000.000 | 26100.239  | 103022987.49 | 241.6459  | A    | 0.9 |
| 7 | <input type="checkbox"/> | 50000.000 | 51396.786  | 201807491.55 | 475.8446  | A    | 0.1 |
| 8 | <input type="checkbox"/> | 250000.00 | 249538.98  | 1062218342.2 | 2,310.271 | A    | 0.8 |

$$y = 0.0093 * x + 0.0065$$

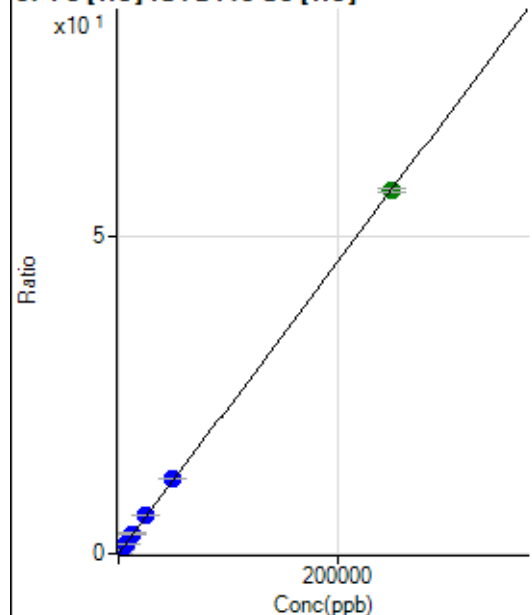
$$R = 1.0000$$

$$DL = 0.02894$$

$$BEC = 0.7003$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 137.04      | 0.0003  | P    | 23.9 |
| 2 | <input type="checkbox"/> | 50.000    | 53.916     | 6112.55     | 0.0126  | P    | 0.9  |
| 3 | <input type="checkbox"/> | 2500.000  | 2577.789   | 293352.28   | 0.5895  | P    | 3.3  |
| 4 | <input type="checkbox"/> | 6250.000  | 6576.952   | 678379.77   | 1.5037  | P    | 1.6  |
| 5 | <input type="checkbox"/> | 12500.000 | 13768.189  | 1346250.02  | 3.1475  | P    | 1.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 26055.536  | 2539452.75  | 5.9562  | P    | 0.4  |
| 7 | <input type="checkbox"/> | 50000.000 | 52144.862  | 5055230.09  | 11.9199 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 250000.00 | 249393.11  | 26211321.88 | 57.0081 | A    | 0.9  |

$$y = 2.2859E-004 * x + 2.8920E-004$$

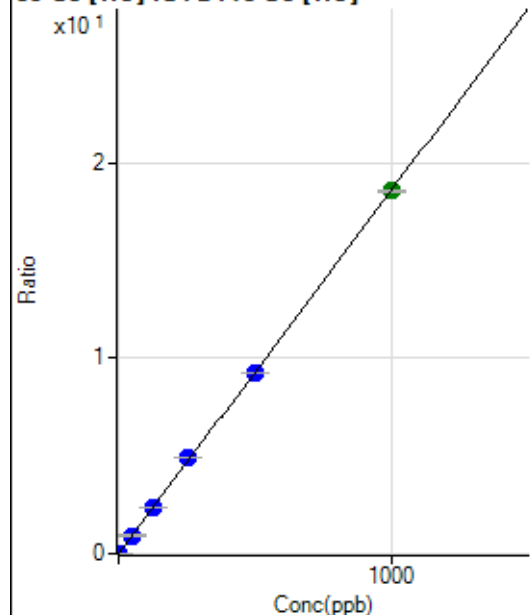
$$R = 1.0000$$

$$DL = 0.9055$$

$$BEC = 1.265$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 114.45     | 0.0002  | P   | 11.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.994      | 9067.36    | 0.0187  | P   | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.095     | 463302.81  | 0.9312  | P   | 3.7  |
| 4 | <input type="checkbox"/> | 125.000  | 126.953    | 1064425.40 | 2.3594  | P   | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 263.440    | 2094130.02 | 4.8958  | P   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 496.744    | 3935814.70 | 9.2313  | P   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.019    | 7865583.77 | 18.5465 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 98736.97   | 0.2147  | P   | 1.1  |

$$y = 0.0186 * x + 2.4148E-004$$

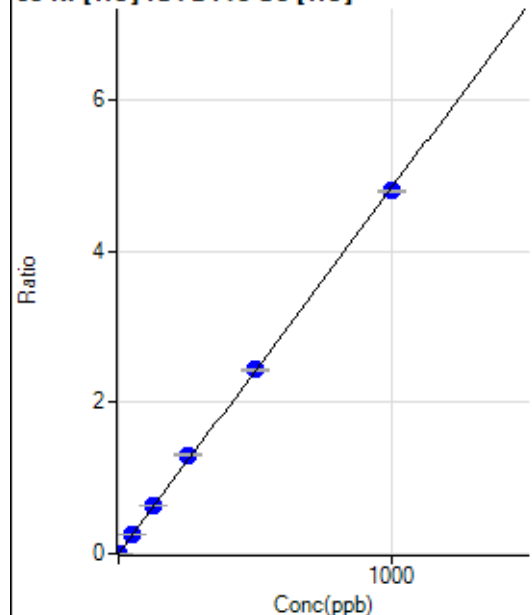
$$R = 0.9999$$

$$DL = 0.004615$$

$$BEC = 0.01299$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 197.78     | 0.0004 | P   | 13.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.049      | 2662.51    | 0.0055 | P   | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 51.839     | 124999.49  | 0.2512 | P   | 3.6  |
| 4 | <input type="checkbox"/> | 125.000  | 130.684    | 285418.49  | 0.6327 | P   | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 270.413    | 559784.50  | 1.3087 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 503.797    | 1039347.49 | 2.4378 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.196    | 2036004.29 | 4.8007 | P   | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 58933.58   | 0.1282 | P   | 1.4  |

$$y = 0.0048 * x + 4.1726E-004$$

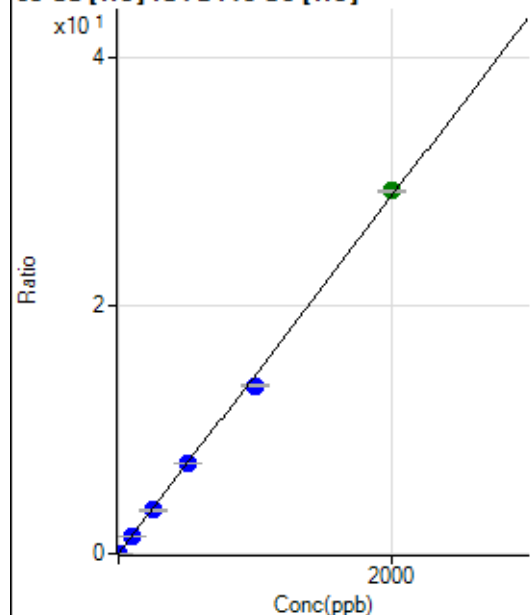
$$R = 0.9998$$

$$DL = 0.03498$$

$$BEC = 0.08625$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>63</sup>Cu [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1426.76     | 0.0030  | P   | 4.5 |
| 2 | <input type="checkbox"/> | 2.000    | 1.875      | 14552.96    | 0.0300  | P   | 1.8 |
| 3 | <input type="checkbox"/> | 100.000  | 95.867     | 688908.44   | 1.3845  | P   | 3.6 |
| 4 | <input type="checkbox"/> | 250.000  | 241.954    | 1574336.45  | 3.4898  | P   | 1.6 |
| 5 | <input type="checkbox"/> | 500.000  | 503.950    | 3107709.89  | 7.2654  | P   | 1.0 |
| 6 | <input type="checkbox"/> | 1000.000 | 939.773    | 5775283.11  | 13.5460 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 2000.000 | 2030.339   | 12410292.59 | 29.2621 | A   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 18808.96    | 0.0409  | P   | 1.1 |

$$y = 0.0144 * x + 0.0030$$

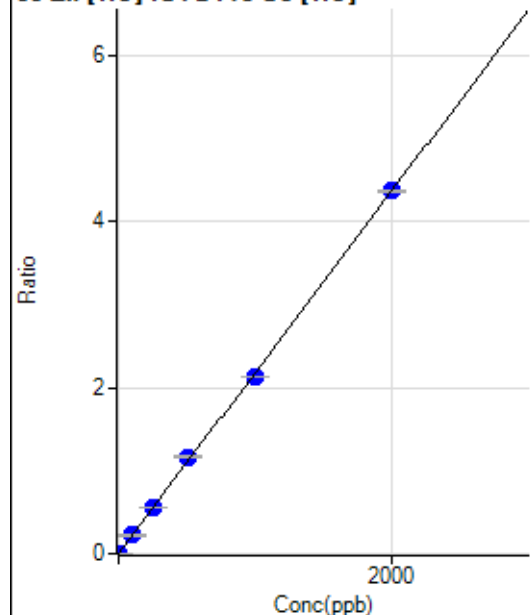
$$R = 0.9993$$

$$DL = 0.02793$$

$$BEC = 0.2089$$

Weight: &lt;None&gt;

Min Conc: 0

**<sup>66</sup>Zn [He] ISTD:45 Sc [He]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 332.23     | 0.0007 | P   | 6.6 |
| 2 | <input type="checkbox"/> | 2.000    | 2.180      | 2646.95    | 0.0055 | P   | 0.8 |
| 3 | <input type="checkbox"/> | 100.000  | 102.081    | 111228.52  | 0.2236 | P   | 4.6 |
| 4 | <input type="checkbox"/> | 250.000  | 256.195    | 252676.67  | 0.5601 | P   | 1.6 |
| 5 | <input type="checkbox"/> | 500.000  | 532.551    | 497672.98  | 1.1635 | P   | 1.3 |
| 6 | <input type="checkbox"/> | 1000.000 | 976.609    | 909454.36  | 2.1331 | P   | 0.5 |
| 7 | <input type="checkbox"/> | 2000.000 | 2002.679   | 1854844.66 | 4.3735 | P   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 16678.61   | 0.0363 | P   | 1.3 |

$$y = 0.0022 * x + 7.0099E-004$$

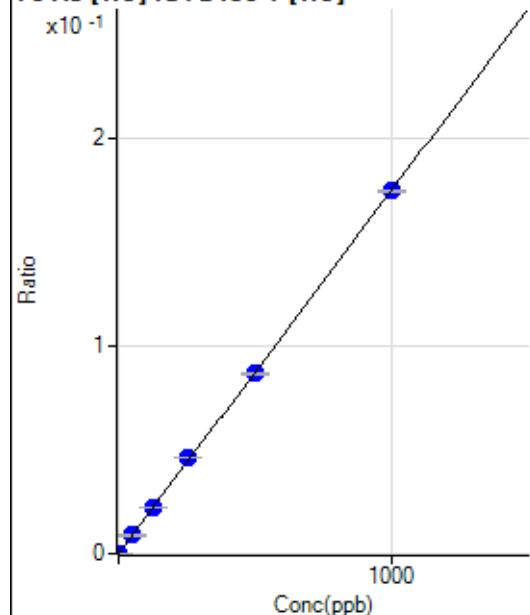
$$R = 0.9998$$

$$DL = 0.06337$$

$$BEC = 0.321$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.58     | 0.0000 | P   | 31.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.031      | 559.89    | 0.0002 | P   | 2.6  |
| 3 | <input type="checkbox"/> | 50.000   | 50.688     | 27753.69  | 0.0089 | P   | 3.3  |
| 4 | <input type="checkbox"/> | 125.000  | 127.779    | 64045.18  | 0.0223 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 263.686    | 126578.94 | 0.0461 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 494.968    | 235839.10 | 0.0865 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.713    | 466720.34 | 0.1745 | P   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 692.62    | 0.0002 | P   | 3.7  |

$$y = 1.7473\text{E-}004 * x + 4.5585\text{E-}006$$

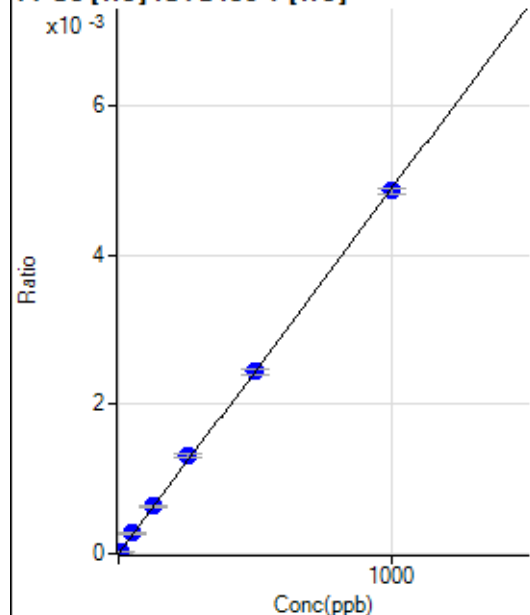
$$R = 0.9999$$

$$DL = 0.0248$$

$$BEC = 0.02609$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11     | 0.0000 | P   | 173. |
| 2 | <input type="checkbox"/> | 5.000    | 4.797      | 72.22    | 0.0000 | P   | 5.8  |
| 3 | <input type="checkbox"/> | 50.000   | 56.718     | 868.93   | 0.0003 | P   | 9.9  |
| 4 | <input type="checkbox"/> | 125.000  | 130.968    | 1837.93  | 0.0006 | P   | 3.1  |
| 5 | <input type="checkbox"/> | 250.000  | 268.669    | 3609.40  | 0.0013 | P   | 2.3  |
| 6 | <input type="checkbox"/> | 500.000  | 499.463    | 6659.42  | 0.0024 | P   | 3.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.520    | 13007.09 | 0.0049 | P   | 1.6  |
| 8 | <input type="checkbox"/> |          |            | 4.45     | 0.0000 | P   | 86.6 |

$$y = 4.8897\text{E-}006 * x + 3.7317\text{E-}007$$

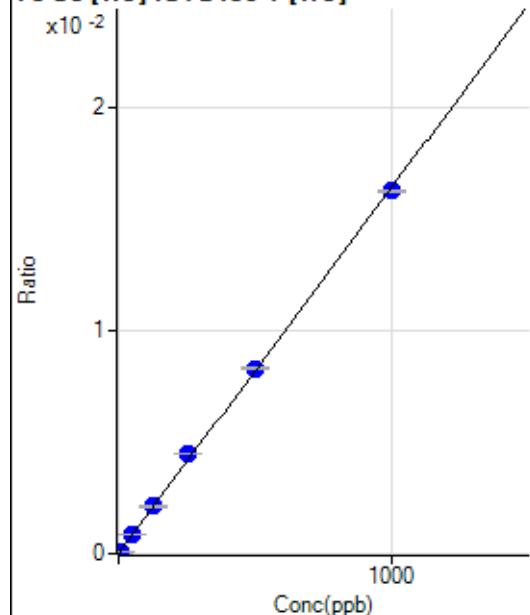
$$R = 0.9998$$

$$DL = 0.3966$$

$$BEC = 0.07632$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 29.63    | 0.0000 | P    | 16.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.867      | 321.61   | 0.0001 | P    | 9.4  |
| 3 | <input type="checkbox"/> | 50.000   | 52.249     | 2712.63  | 0.0009 | P    | 2.6  |
| 4 | <input type="checkbox"/> | 125.000  | 129.651    | 6119.24  | 0.0021 | P    | 3.4  |
| 5 | <input type="checkbox"/> | 250.000  | 273.484    | 12333.12 | 0.0045 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 504.478    | 22562.06 | 0.0083 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 991.192    | 43452.55 | 0.0162 | P    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 61.11    | 0.0000 | P    | 7.8  |

$$y = 1.6381\text{E-}005 * x + 9.9471\text{E-}006$$

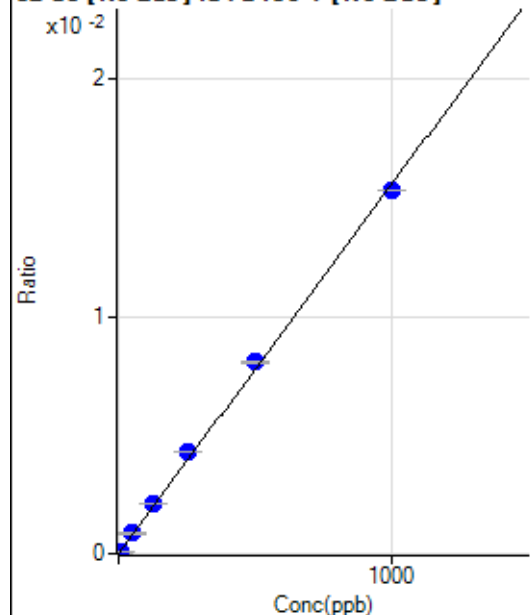
$$R = 0.9997$$

$$DL = 0.3064$$

$$BEC = 0.6072$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 11.15     | 0.0000 | P    | 917. |
| 2 | <input type="checkbox"/> | 5.000    | 5.460      | 1928.26   | 0.0001 | P    | 4.7  |
| 3 | <input type="checkbox"/> | 50.000   | 54.751     | 19517.83  | 0.0009 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 133.888    | 46755.82  | 0.0021 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 250.000  | 275.784    | 91019.24  | 0.0043 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 518.626    | 165503.65 | 0.0081 | P    | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 982.890    | 314698.24 | 0.0153 | P    | 0.1  |
| 8 | <input type="checkbox"/> |          |            | 140.00    | 0.0000 | P    | 30.2 |

$$y = 1.5552\text{E-}005 * x + 5.1116\text{E-}007$$

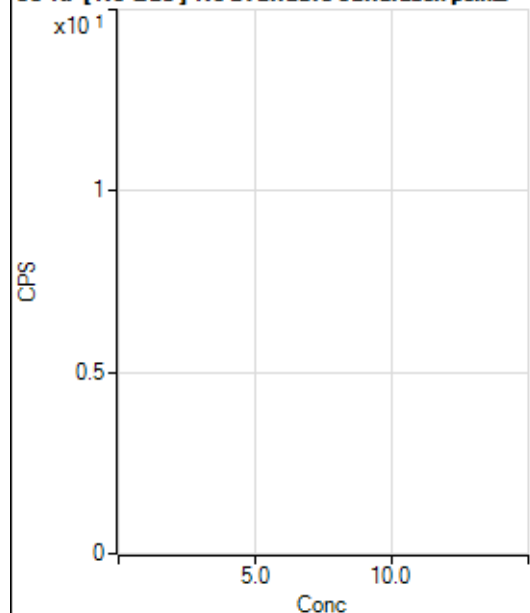
$$R = 0.9994$$

$$DL = 0.905$$

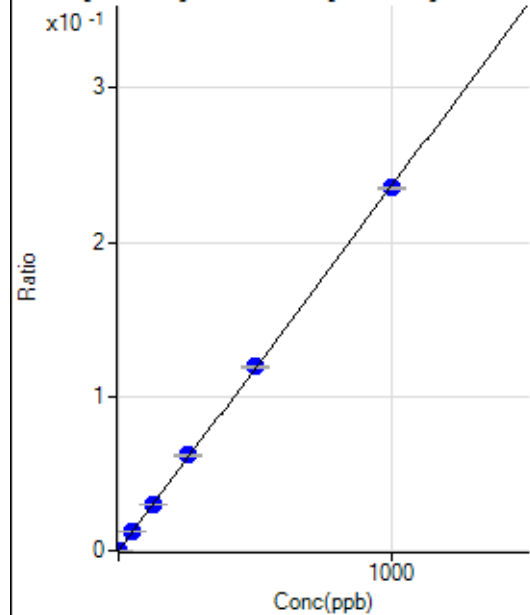
$$BEC = 0.03287$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 430.01 |       | P   | 21.6 |
| 2 | <input type="checkbox"/> |       |            | 437.79 |       | P   | 6.3  |
| 3 | <input type="checkbox"/> |       |            | 411.12 |       | P   | 6.9  |
| 4 | <input type="checkbox"/> |       |            | 396.68 |       | P   | 4.4  |
| 5 | <input type="checkbox"/> |       |            | 347.78 |       | P   | 11.1 |
| 6 | <input type="checkbox"/> |       |            | 356.68 |       | P   | 3.4  |
| 7 | <input type="checkbox"/> |       |            | 433.35 |       | P   | 7.1  |
| 8 | <input type="checkbox"/> |       |            | 393.34 |       | P   | 18.6 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 638.94     | 0.0000 | P   | 6.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.997      | 5962.62    | 0.0003 | P   | 2.6 |
| 3 | <input type="checkbox"/> | 50.000   | 51.051     | 277190.92  | 0.0121 | P   | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 125.694    | 667864.59  | 0.0298 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 261.297    | 1311637.85 | 0.0618 | P   | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 503.988    | 2445826.99 | 0.1192 | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 995.043    | 4844421.20 | 0.2353 | P   | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 20092.63   | 0.0010 | P   | 3.9 |

$$y = 2.3646E-004 * x + 2.8355E-005$$

$$R = 0.9999$$

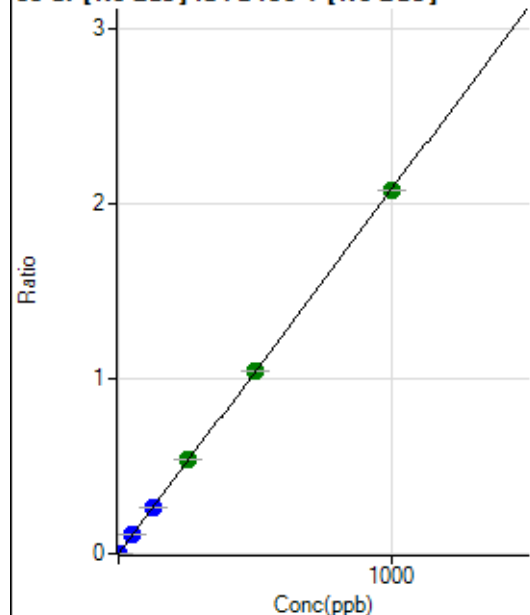
$$DL = 0.02376$$

$$BEC = 0.1199$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 172.23      | 0.0000 | P    | 17.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.963      | 45423.18    | 0.0020 | P    | 0.7  |
| 3 | <input type="checkbox"/> | 50.000   | 51.078     | 2435951.55  | 0.1063 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 125.270    | 5854666.10  | 0.2608 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 259.654    | 11469684.11 | 0.5405 | A    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 502.788    | 21476191.28 | 1.0467 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 996.105    | 42689999.57 | 2.0737 | A    | 0.2  |
| 8 | <input type="checkbox"/> |          |            | 172501.37   | 0.0085 | P    | 1.0  |

$$y = 0.0021 * x + 7.6475E-006$$

$$R = 0.9999$$

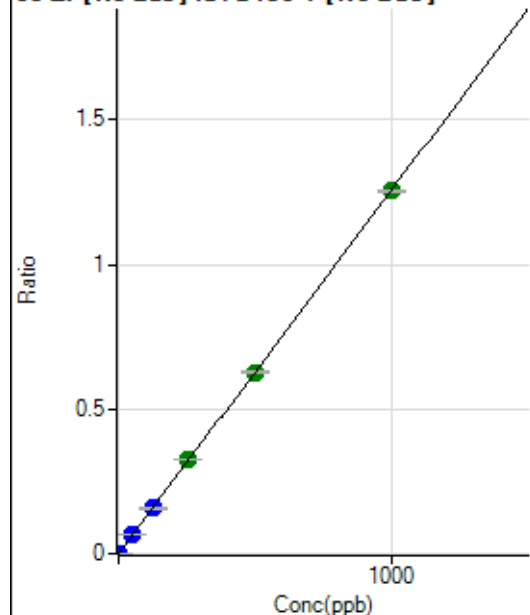
$$DL = 0.00195$$

$$BEC = 0.003674$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1783.53     | 0.0001 | P    | 6.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.877      | 26661.90    | 0.0012 | P    | 2.9 |
| 3 | <input type="checkbox"/> | 50.000   | 50.671     | 1460817.00  | 0.0638 | P    | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 124.407    | 3512375.56  | 0.1565 | P    | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 257.955    | 6881783.83  | 0.3243 | A    | 0.3 |
| 6 | <input type="checkbox"/> | 500.000  | 499.856    | 12893326.16 | 0.6284 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.124    | 25830180.79 | 1.2547 | A    | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 6774.10     | 0.0003 | P    | 1.0 |

$$y = 0.0013 * x + 7.9142E-005$$

$$R = 1.0000$$

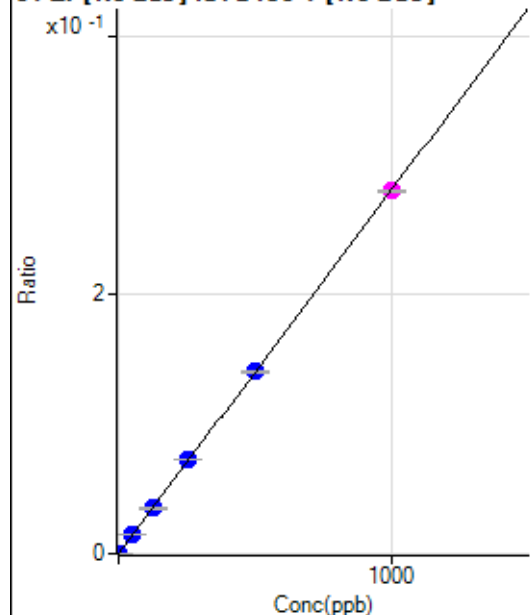
$$DL = 0.01268$$

$$BEC = 0.06296$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 319.46     | 0.0000 | P   | 9.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.852      | 5723.63    | 0.0003 | P   | 6.0 |
| 3 | <input type="checkbox"/> | 50.000   | 50.519     | 325670.82  | 0.0142 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 125.000  | 124.417    | 785522.33  | 0.0350 | P   | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 258.887    | 1544584.00 | 0.0728 | P   | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 500.139    | 2885149.54 | 0.1406 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.756    | 5774742.06 | 0.2805 | M   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 1427.92    | 0.0001 | P   | 7.7 |

$$y = 2.8112\text{E-}004 * x + 1.4176\text{E-}005$$

$$R = 1.0000$$

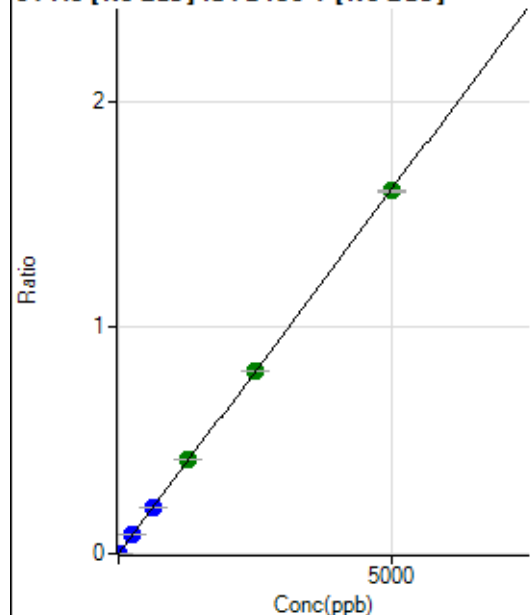
$$DL = 0.01429$$

$$BEC = 0.05043$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 744.50      | 0.0000 | P   | 8.1 |
| 2 | <input type="checkbox"/> | 5.000    | 4.672      | 34701.43    | 0.0015 | P   | 2.3 |
| 3 | <input type="checkbox"/> | 250.000  | 255.230    | 1883653.34  | 0.0822 | P   | 1.3 |
| 4 | <input type="checkbox"/> | 625.000  | 628.331    | 4543438.64  | 0.2024 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 1250.000 | 1299.020   | 8877593.95  | 0.4184 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 2500.000 | 2511.683   | 16597422.59 | 0.8089 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 5000.000 | 4981.226   | 33025617.41 | 1.6042 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 26561.69    | 0.0013 | P   | 3.6 |

$$y = 3.2205\text{E-}004 * x + 3.3028\text{E-}005$$

$$R = 0.9999$$

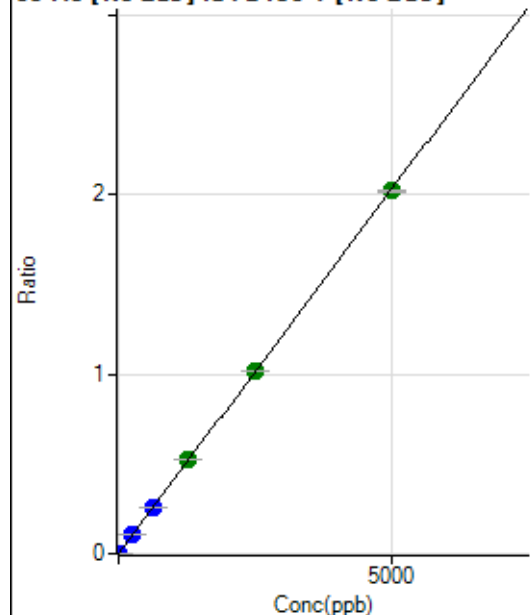
$$DL = 0.02506$$

$$BEC = 0.1026$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 197.23      | 0.0000 | P   | 18.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.672      | 42929.85    | 0.0019 | P   | 2.5  |
| 3 | <input type="checkbox"/> | 250.000  | 254.388    | 2361721.60  | 0.1031 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 625.000  | 629.811    | 5729883.11  | 0.2552 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1300.393   | 11182168.04 | 0.5270 | A   | 0.2  |
| 6 | <input type="checkbox"/> | 2500.000 | 2511.922   | 20886559.32 | 1.0180 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.620   | 41551900.58 | 2.0184 | A   | 0.5  |
| 8 | <input type="checkbox"/> |          |            | 42901.75    | 0.0021 | P   | 5.1  |

$$y = 4.0525E-004 * x + 8.7434E-006$$

$$R = 0.9999$$

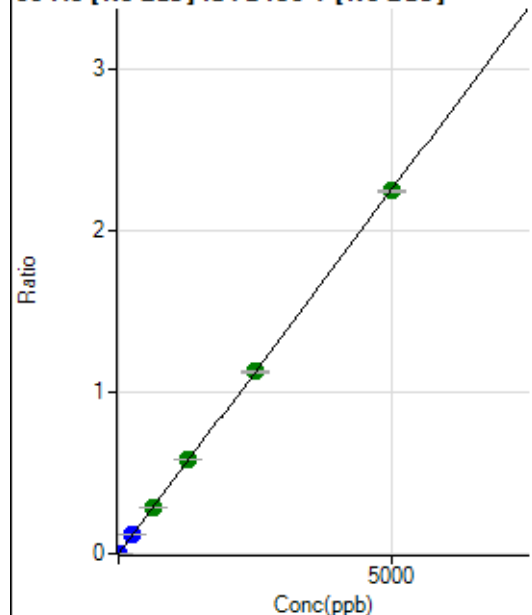
$$DL = 0.0122$$

$$BEC = 0.02158$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 325.02      | 0.0000 | P   | 11.5 |
| 2 | <input type="checkbox"/> | 5.000    | 4.705      | 48126.57    | 0.0021 | P   | 1.6  |
| 3 | <input type="checkbox"/> | 250.000  | 254.931    | 2629119.07  | 0.1148 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 625.000  | 623.873    | 6304857.91  | 0.2808 | A   | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1294.761   | 12367272.33 | 0.5828 | A   | 0.3  |
| 6 | <input type="checkbox"/> | 2500.000 | 2503.298   | 23121226.56 | 1.1269 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4987.055   | 46215339.92 | 2.2449 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 46738.77    | 0.0023 | P   | 4.9  |

$$y = 4.5015E-004 * x + 1.4417E-005$$

$$R = 1.0000$$

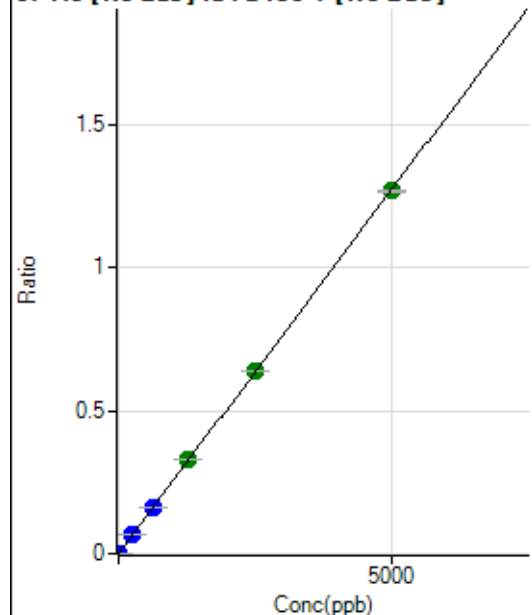
$$DL = 0.01109$$

$$BEC = 0.03203$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 125.01      | 0.0000 | P   | 20.5 |
| 2 | <input type="checkbox"/> | 5.000    | 4.762      | 27488.50    | 0.0012 | P   | 3.4  |
| 3 | <input type="checkbox"/> | 250.000  | 254.845    | 1486583.98  | 0.0649 | P   | 1.5  |
| 4 | <input type="checkbox"/> | 625.000  | 623.733    | 3565622.87  | 0.1588 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 1250.000 | 1295.190   | 6998035.05  | 0.3298 | A   | 0.7  |
| 6 | <input type="checkbox"/> | 2500.000 | 2507.272   | 13099565.83 | 0.6384 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 5000.000 | 4984.983   | 26131586.17 | 1.2693 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 26636.84    | 0.0013 | P   | 3.2  |

$$y = 2.5463E-004 * x + 5.5489E-006$$

$$R = 1.0000$$

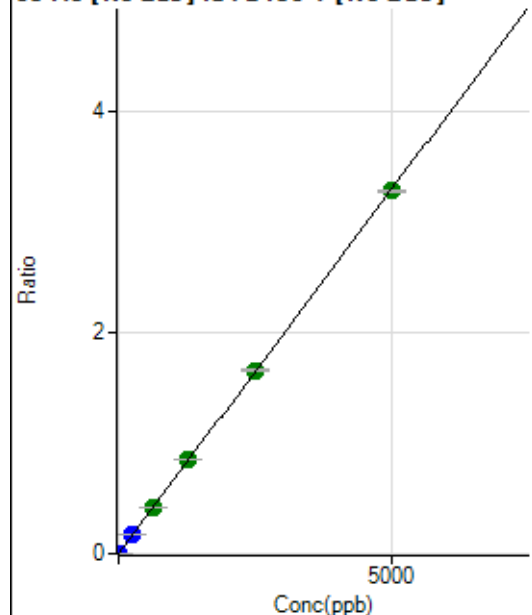
$$DL = 0.01337$$

$$BEC = 0.02179$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 250.02      | 0.0000 | P   | 20.8 |
| 2 | <input type="checkbox"/> | 5.000    | 4.799      | 71462.88    | 0.0032 | P   | 2.0  |
| 3 | <input type="checkbox"/> | 250.000  | 254.941    | 3839764.24  | 0.1676 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 625.000  | 625.562    | 9233364.18  | 0.4113 | A   | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1296.303   | 18084099.01 | 0.8523 | A   | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2514.922   | 33926092.77 | 1.6535 | A   | 0.6  |
| 7 | <input type="checkbox"/> | 5000.000 | 4980.646   | 67412677.89 | 3.2746 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 68024.24    | 0.0034 | P   | 4.0  |

$$y = 6.5746E-004 * x + 1.1101E-005$$

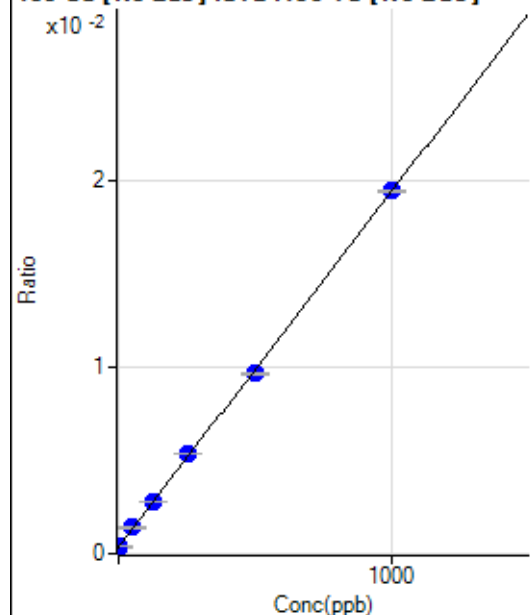
$$R = 0.9999$$

$$DL = 0.01052$$

$$BEC = 0.01688$$

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  | Det | RSD |
|---|--------------------------|----------|------------|-----------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 10988.12  | 0.0004 | P   | 3.7 |
| 2 | <input type="checkbox"/> | 1.000    | 1.233      | 11708.20  | 0.0004 | P   | 1.0 |
| 3 | <input type="checkbox"/> | 50.000   | 54.798     | 44451.59  | 0.0014 | P   | 2.2 |
| 4 | <input type="checkbox"/> | 125.000  | 128.846    | 89409.28  | 0.0028 | P   | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 261.959    | 165757.38 | 0.0053 | P   | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 488.725    | 291611.83 | 0.0097 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.927   | 586477.92 | 0.0195 | P   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 10740.63  | 0.0004 | P   | 4.3 |

$$y = 1.9075\text{E-}005 * x + 3.5132\text{E-}004$$

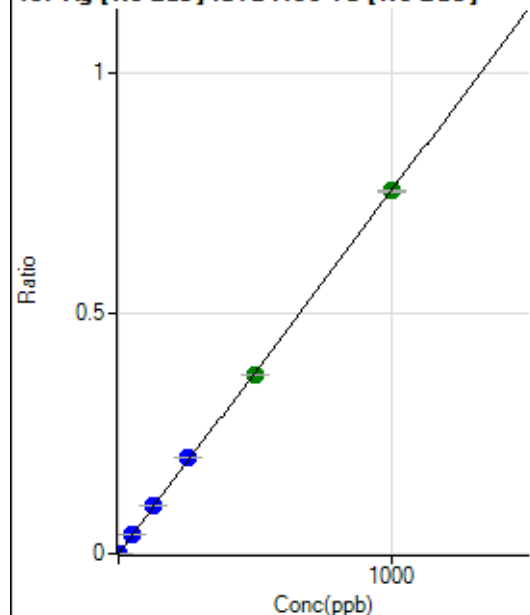
$$R = 0.9998$$

$$DL = 2.057$$

$$BEC = 18.42$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 302.80      | 0.0000 | P   | 19.4 |
| 2 | <input type="checkbox"/> | 1.000    | 0.963      | 22997.22    | 0.0007 | P   | 1.9  |
| 3 | <input type="checkbox"/> | 50.000   | 54.473     | 1308243.78  | 0.0411 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 130.784    | 3140352.67  | 0.0987 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 263.515    | 6160960.07  | 0.1988 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 492.837    | 11206771.08 | 0.3718 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.256    | 22712796.34 | 0.7538 | A   | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 1489.03     | 0.0001 | P   | 23.4 |

$$y = 7.5433\text{E-}004 * x + 9.6812\text{E-}006$$

$$R = 0.9999$$

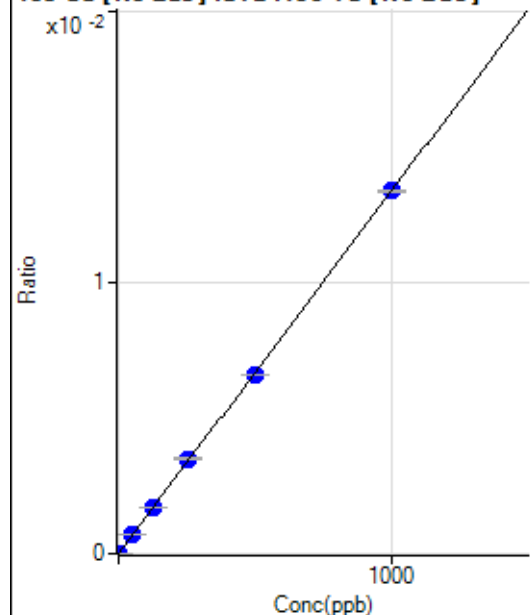
$$DL = 0.007458$$

$$BEC = 0.01283$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 26.39     | 0.0000 | P   | 32.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.047      | 463.91    | 0.0000 | P   | 7.6  |
| 3 | <input type="checkbox"/> | 50.000   | 54.560     | 23262.48  | 0.0007 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 125.000  | 128.957    | 54942.60  | 0.0017 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 262.239    | 108766.66 | 0.0035 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 492.328    | 198586.66 | 0.0066 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.054   | 403196.87 | 0.0134 | P   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 102.78    | 0.0000 | P   | 19.7 |

$$y = 1.3379\text{E-}005 * x + 8.4258\text{E-}007$$

$$R = 0.9999$$

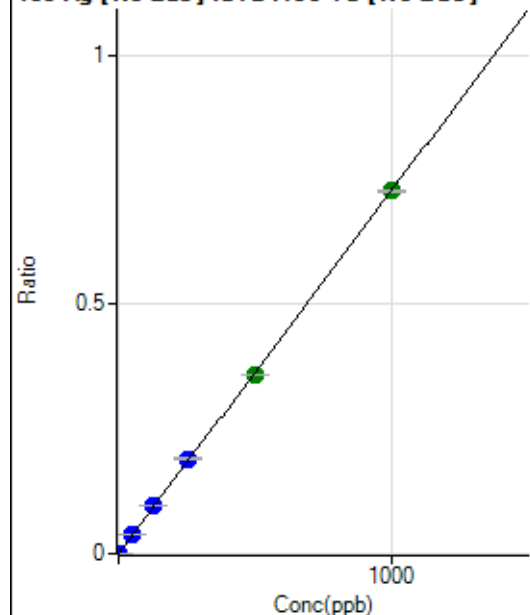
$$DL = 0.06126$$

$$BEC = 0.06298$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 105.56      | 0.0000 | P   | 4.0  |
| 2 | <input type="checkbox"/> | 1.000    | 0.938      | 21464.44    | 0.0007 | P   | 2.0  |
| 3 | <input type="checkbox"/> | 50.000   | 54.886     | 1273143.36  | 0.0400 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 130.208    | 3020093.03  | 0.0949 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 262.051    | 5918376.31  | 0.1910 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 493.462    | 10839597.73 | 0.3596 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.361    | 21943463.16 | 0.7282 | A   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 1361.24     | 0.0000 | P   | 22.9 |

$$y = 7.2870\text{E-}004 * x + 3.3741\text{E-}006$$

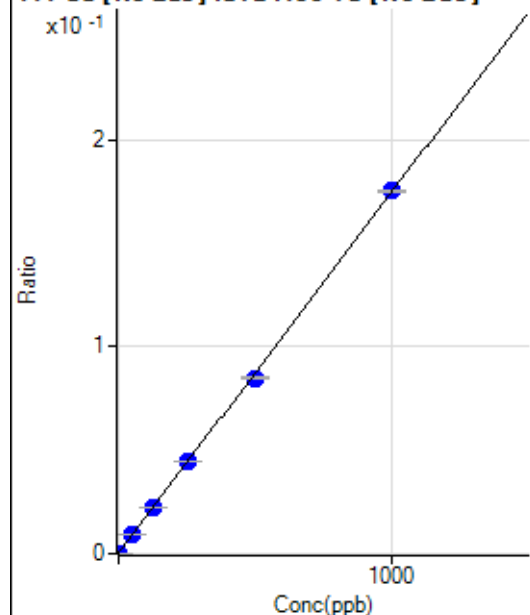
$$R = 0.9999$$

$$DL = 0.0005504$$

$$BEC = 0.00463$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 7725.99    | 0.0002 | P   | 3.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.992      | 13115.14   | 0.0004 | P   | 1.3 |
| 3 | <input type="checkbox"/> | 50.000   | 53.055     | 302060.00  | 0.0095 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 126.999    | 712074.94  | 0.0224 | P   | 0.4 |
| 5 | <input type="checkbox"/> | 250.000  | 256.323    | 1391649.15 | 0.0449 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 486.244    | 2561011.27 | 0.0850 | P   | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 1004.894   | 5282651.63 | 0.1753 | P   | 0.6 |
| 8 | <input type="checkbox"/> |          |            | 8036.80    | 0.0003 | P   | 4.5 |

$$y = 1.7422\text{E-}004 * x + 2.4702\text{E-}004$$

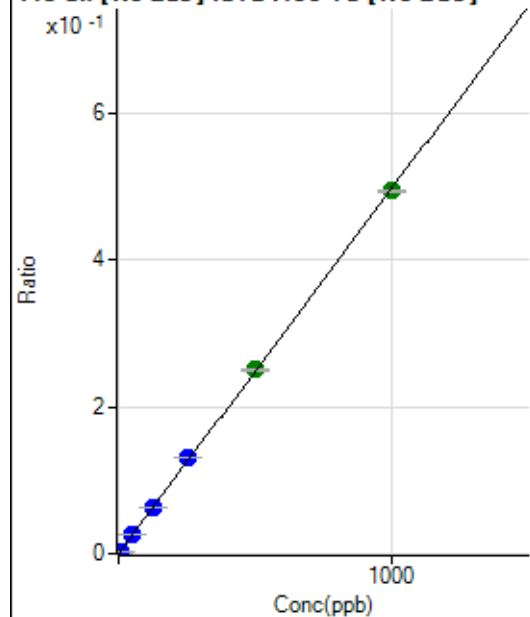
$$R = 0.9998$$

$$DL = 0.1598$$

$$BEC = 1.418$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1980.79     | 0.0001 | P   | 6.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.193      | 82526.26    | 0.0026 | P   | 0.6 |
| 3 | <input type="checkbox"/> | 50.000   | 52.831     | 837086.70   | 0.0263 | P   | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 128.413    | 2031717.00  | 0.0638 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 263.332    | 4054915.19  | 0.1308 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 503.361    | 7537076.12  | 0.2500 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.417    | 14882201.90 | 0.4939 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 6740.84     | 0.0002 | P   | 3.3 |

$$y = 4.9660\text{E-}004 * x + 6.3310\text{E-}005$$

$$R = 0.9999$$

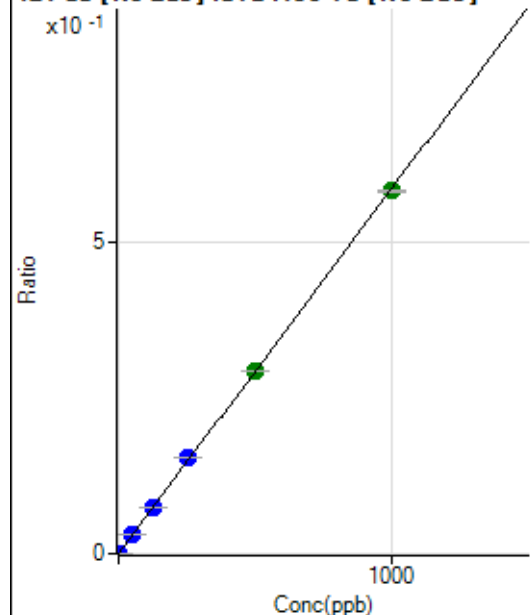
$$DL = 0.02575$$

$$BEC = 0.1275$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 372.24      | 0.0000 | P    | 10.1 |
| 2 | <input type="checkbox"/> | 2.000    | 1.950      | 35977.79    | 0.0012 | P    | 0.3  |
| 3 | <input type="checkbox"/> | 50.000   | 52.681     | 980578.79   | 0.0308 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 127.729    | 2376879.78  | 0.0747 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 264.131    | 4785731.62  | 0.1544 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 502.706    | 8858658.10  | 0.2939 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.639    | 17519970.36 | 0.5814 | A    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 25746.74    | 0.0009 | P    | 2.2  |

$$y = 5.8456\text{E-}004 * x + 1.1896\text{E-}005$$

$$R = 0.9999$$

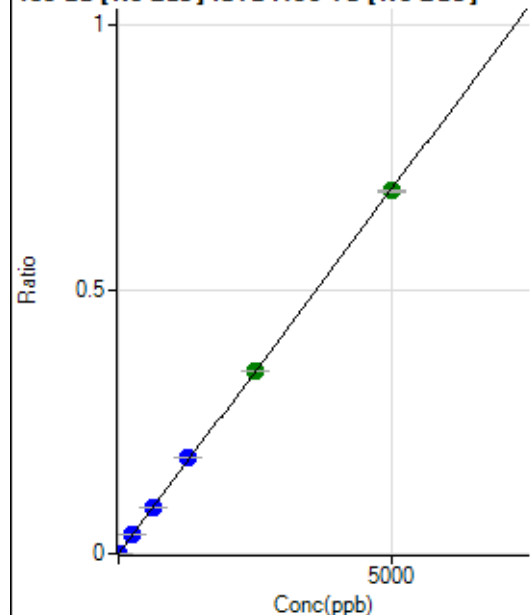
$$DL = 0.006188$$

$$BEC = 0.02035$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45       | 0.0000 | P    | 46.9 |
| 2 | <input type="checkbox"/> | 10.000   | 10.245     | 44171.09    | 0.0014 | P    | 1.0  |
| 3 | <input type="checkbox"/> | 250.000  | 263.447    | 1156447.96  | 0.0363 | P    | 0.3  |
| 4 | <input type="checkbox"/> | 625.000  | 637.588    | 2798576.63  | 0.0879 | P    | 0.2  |
| 5 | <input type="checkbox"/> | 1250.000 | 1318.004   | 5633216.84  | 0.1818 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 2500.000 | 2504.487   | 10411126.36 | 0.3454 | A    | 0.4  |
| 7 | <input type="checkbox"/> | 5000.000 | 4978.509   | 20687195.95 | 0.6866 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 1930.79     | 0.0001 | P    | 11.1 |

$$y = 1.3790\text{E-}004 * x + 1.4188\text{E-}006$$

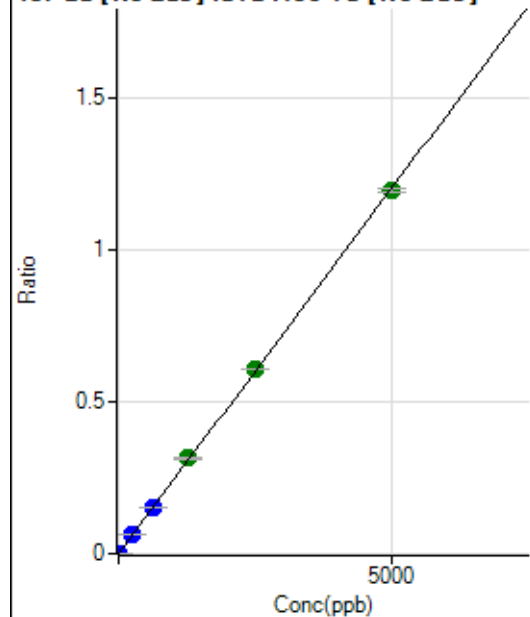
$$R = 0.9999$$

$$DL = 0.01446$$

$$BEC = 0.01029$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 47.22       | 0.0000 | P    | 36.4 |
| 2 | <input type="checkbox"/> | 10.000   | 10.342     | 77734.12    | 0.0025 | P    | 1.3  |
| 3 | <input type="checkbox"/> | 250.000  | 265.703    | 2034000.76  | 0.0639 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 625.000  | 643.104    | 4922740.74  | 0.1547 | P    | 0.6  |
| 5 | <input type="checkbox"/> | 1250.000 | 1305.088   | 9727769.92  | 0.3139 | A    | 0.8  |
| 6 | <input type="checkbox"/> | 2500.000 | 2530.671   | 18346238.08 | 0.6086 | A    | 0.7  |
| 7 | <input type="checkbox"/> | 5000.000 | 4967.844   | 35999815.74 | 1.1947 | A    | 0.9  |
| 8 | <input type="checkbox"/> |          |            | 3886.84     | 0.0001 | P    | 9.8  |

$$y = 2.4050E-004 * x + 1.5082E-006$$

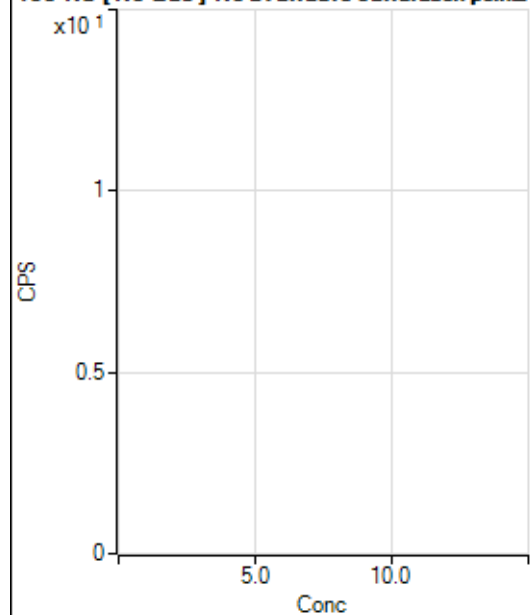
$$R = 0.9999$$

$$DL = 0.006847$$

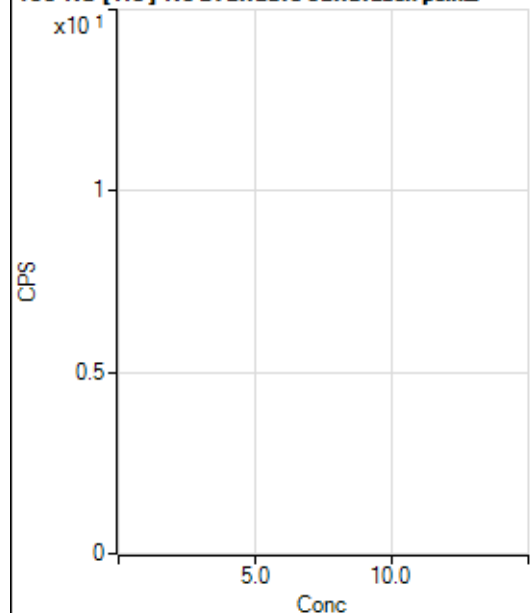
$$BEC = 0.006271$$

Weight: &lt;None&gt;

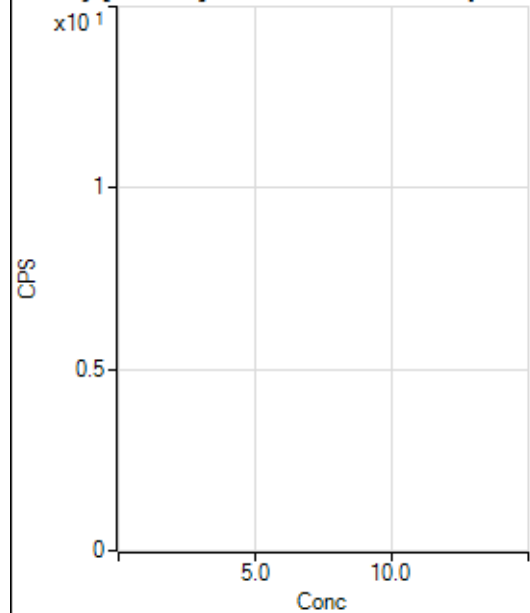
Min Conc: 0

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

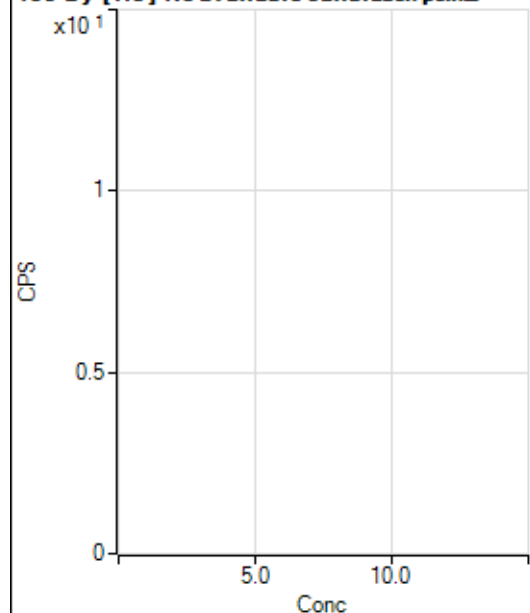
|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS     | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|---------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 13.33   |       | P    | 50.0 |
| 2 | <input type="checkbox"/> |       |            | 22.22   |       | P    | 17.3 |
| 3 | <input type="checkbox"/> |       |            | 113.34  |       | P    | 41.2 |
| 4 | <input type="checkbox"/> |       |            | 280.02  |       | P    | 4.8  |
| 5 | <input type="checkbox"/> |       |            | 442.25  |       | P    | 13.9 |
| 6 | <input type="checkbox"/> |       |            | 900.06  |       | P    | 3.0  |
| 7 | <input type="checkbox"/> |       |            | 1415.68 |       | P    | 8.4  |
| 8 | <input type="checkbox"/> |       |            | 226.68  |       | P    | 10.2 |

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

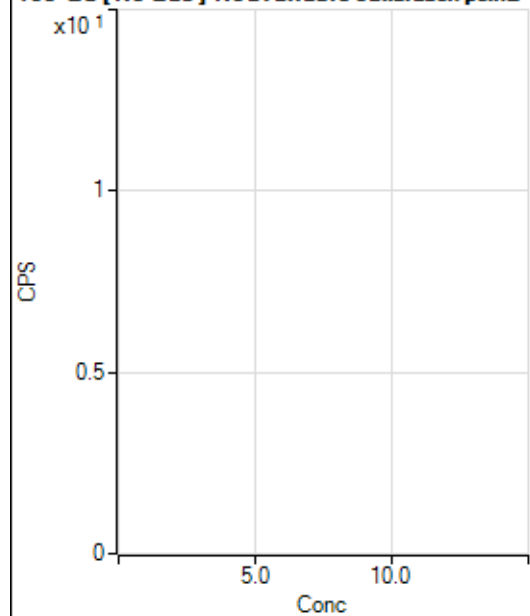
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 16.67  |       | P        | 87.2 |
| 2 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 33.3 |
| 3 | <input type="checkbox"/> |       |            | 26.66  |       | P        | 21.7 |
| 4 | <input type="checkbox"/> |       |            | 43.33  |       | P        | 27.7 |
| 5 | <input type="checkbox"/> |       |            | 47.78  |       | P        | 38.4 |
| 6 | <input type="checkbox"/> |       |            | 84.45  |       | P        | 9.9  |
| 7 | <input type="checkbox"/> |       |            | 126.67 |       | P        | 5.3  |
| 8 | <input type="checkbox"/> |       |            | 91.11  |       | P        | 5.6  |

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

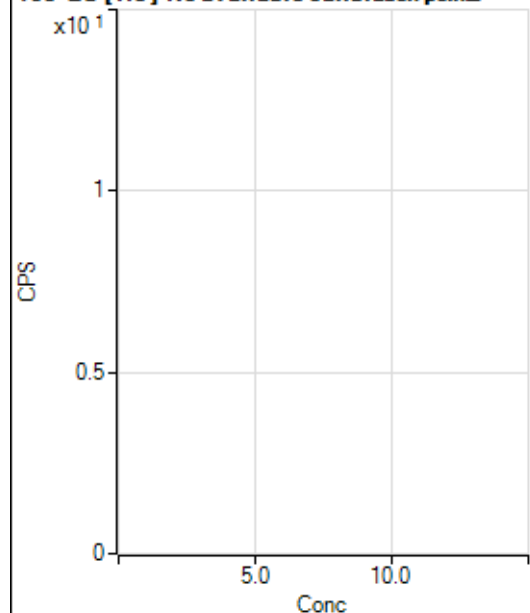
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 75.8 |
| 2 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 0.0  |
| 3 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 21.6 |
| 4 | <input type="checkbox"/> |       |            | 113.89 |       | P        | 36.8 |
| 5 | <input type="checkbox"/> |       |            | 97.23  |       | P        | 57.1 |
| 6 | <input type="checkbox"/> |       |            | 197.23 |       | P        | 20.0 |
| 7 | <input type="checkbox"/> |       |            | 336.13 |       | P        | 18.6 |
| 8 | <input type="checkbox"/> |       |            | 113.90 |       | P        | 15.2 |

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

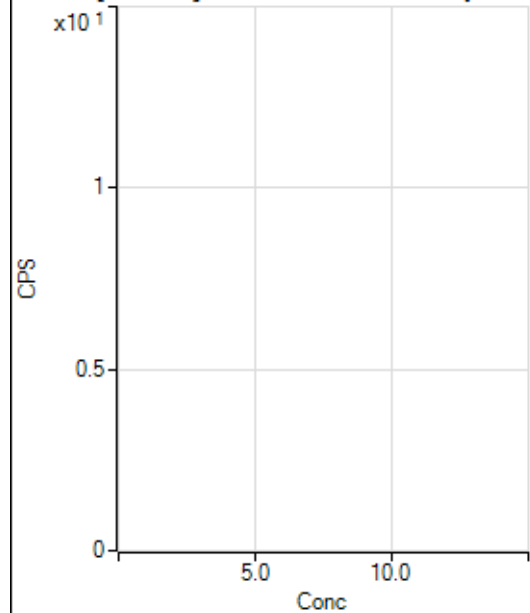
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 28.89  |       | P        | 29.0 |
| 2 | <input type="checkbox"/> |       |            | 48.89  |       | P        | 41.1 |
| 3 | <input type="checkbox"/> |       |            | 56.67  |       | P        | 35.3 |
| 4 | <input type="checkbox"/> |       |            | 92.23  |       | P        | 24.1 |
| 5 | <input type="checkbox"/> |       |            | 118.89 |       | P        | 24.5 |
| 6 | <input type="checkbox"/> |       |            | 181.12 |       | P        | 18.1 |
| 7 | <input type="checkbox"/> |       |            | 344.46 |       | P        | 12.3 |
| 8 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 30.9 |

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

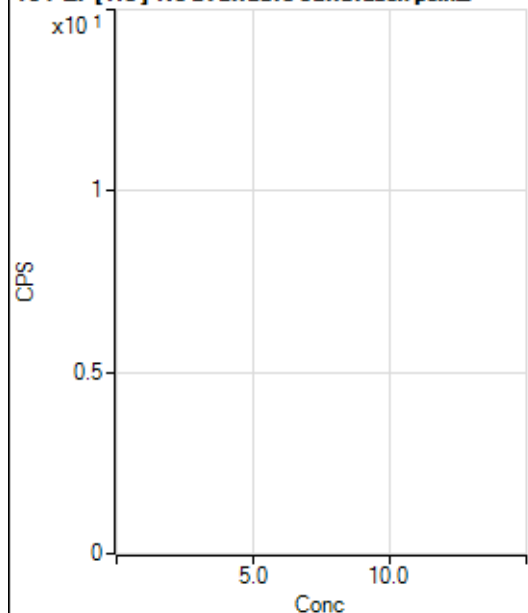
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 291.68 |       | P        | 7.6  |
| 2 | <input type="checkbox"/> |       |            | 202.79 |       | P        | 28.0 |
| 3 | <input type="checkbox"/> |       |            | 222.24 |       | P        | 20.7 |
| 4 | <input type="checkbox"/> |       |            | 219.46 |       | P        | 29.0 |
| 5 | <input type="checkbox"/> |       |            | 250.01 |       | P        | 16.7 |
| 6 | <input type="checkbox"/> |       |            | 213.90 |       | P        | 12.5 |
| 7 | <input type="checkbox"/> |       |            | 300.02 |       | P        | 7.3  |
| 8 | <input type="checkbox"/> |       |            | 283.35 |       | P        | 11.8 |

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

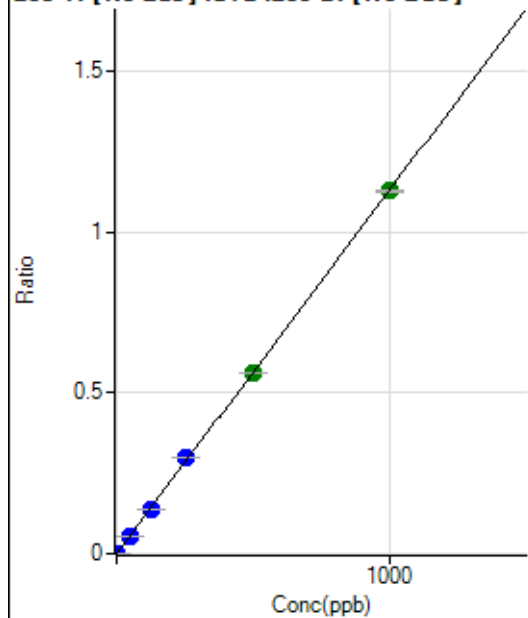
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 344.46 |       | P        | 18.9 |
| 2 | <input type="checkbox"/> |       |            | 415.57 |       | P        | 13.3 |
| 3 | <input type="checkbox"/> |       |            | 442.24 |       | P        | 9.1  |
| 4 | <input type="checkbox"/> |       |            | 411.12 |       | P        | 3.1  |
| 5 | <input type="checkbox"/> |       |            | 386.68 |       | P        | 15.8 |
| 6 | <input type="checkbox"/> |       |            | 390.01 |       | P        | 6.0  |
| 7 | <input type="checkbox"/> |       |            | 372.23 |       | P        | 14.3 |
| 8 | <input type="checkbox"/> |       |            | 441.13 |       | P        | 16.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 163.90 |       | P        | 5.9  |
| 2 | <input type="checkbox"/> |       |            | 141.67 |       | P        | 21.2 |
| 3 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 24.1 |
| 4 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 16.5 |
| 5 | <input type="checkbox"/> |       |            | 138.90 |       | P        | 30.8 |
| 6 | <input type="checkbox"/> |       |            | 150.01 |       | P        | 34.7 |
| 7 | <input type="checkbox"/> |       |            | 219.46 |       | P        | 17.9 |
| 8 | <input type="checkbox"/> |       |            | 163.90 |       | P        | 5.9  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 98.89  |       | P    | 10.3 |
| 2 | <input type="checkbox"/> |       |            | 77.78  |       | P    | 21.1 |
| 3 | <input type="checkbox"/> |       |            | 91.11  |       | P    | 9.2  |
| 4 | <input type="checkbox"/> |       |            | 106.67 |       | P    | 27.8 |
| 5 | <input type="checkbox"/> |       |            | 120.00 |       | P    | 16.7 |
| 6 | <input type="checkbox"/> |       |            | 126.67 |       | P    | 9.1  |
| 7 | <input type="checkbox"/> |       |            | 113.34 |       | P    | 11.8 |
| 8 | <input type="checkbox"/> |       |            | 104.45 |       | P    | 11.2 |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1033.42     | 0.0000 | P    | 2.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.942      | 24078.35    | 0.0011 | P    | 2.4 |
| 3 | <input type="checkbox"/> | 50.000   | 49.449     | 1224105.11  | 0.0560 | P    | 0.9 |
| 4 | <input type="checkbox"/> | 125.000  | 123.177    | 3019161.37  | 0.1394 | P    | 0.3 |
| 5 | <input type="checkbox"/> | 250.000  | 263.424    | 6272428.53  | 0.2981 | P    | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 497.333    | 11404170.83 | 0.5628 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.233    | 22345645.12 | 1.1295 | A    | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 5240.15     | 0.0003 | P    | 7.3 |

$$y = 0.0011 * x + 4.8355E-005$$

$$R = 0.9999$$

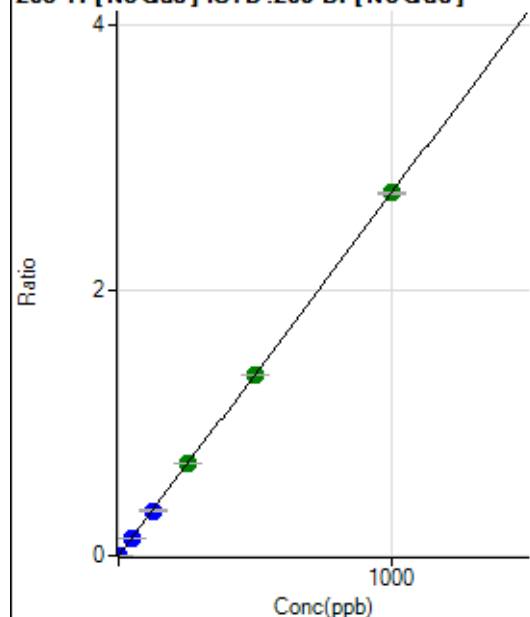
$$DL = 0.003429$$

$$BEC = 0.04274$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1286.23     | 0.0001 | P   | 13.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.928      | 56202.90    | 0.0026 | P   | 0.9  |
| 3 | <input type="checkbox"/> | 50.000   | 49.407     | 2957698.59  | 0.1353 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 125.000  | 124.493    | 7380977.85  | 0.3408 | P   | 0.5  |
| 5 | <input type="checkbox"/> | 250.000  | 254.343    | 14650399.11 | 0.6963 | A   | 0.8  |
| 6 | <input type="checkbox"/> | 500.000  | 498.045    | 27628261.38 | 1.3634 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.985    | 54154041.49 | 2.7373 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 12300.59    | 0.0007 | P   | 8.3  |

$$y = 0.0027 * x + 6.0159E-005$$

$$R = 1.0000$$

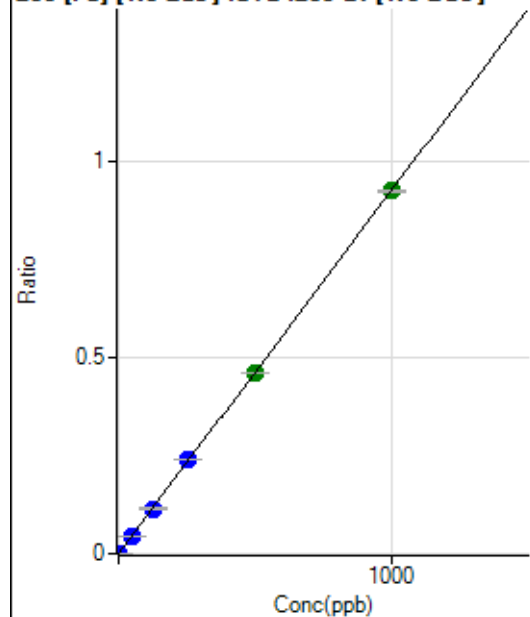
$$DL = 0.008781$$

$$BEC = 0.02198$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1461.23     | 0.0001 | P   | 2.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.944      | 20329.00    | 0.0009 | P   | 0.9 |
| 3 | <input type="checkbox"/> | 50.000   | 49.815     | 1008268.99  | 0.0461 | P   | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 123.994    | 2484034.49  | 0.1147 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 260.175    | 5062800.29  | 0.2406 | P   | 0.1 |
| 6 | <input type="checkbox"/> | 500.000  | 497.592    | 9324034.70  | 0.4601 | A   | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.795    | 18270213.83 | 0.9235 | A   | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 9095.96     | 0.0005 | P   | 4.7 |

$$y = 9.2455E-004 * x + 6.8365E-005$$

$$R = 0.9999$$

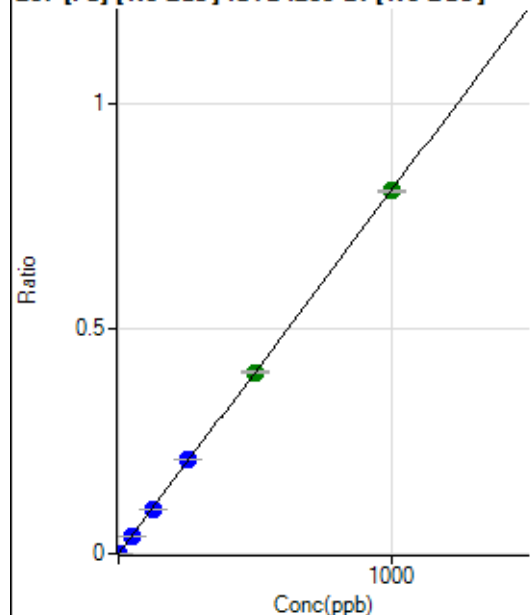
$$DL = 0.005802$$

$$BEC = 0.07394$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1476.05     | 0.0001 | P   | 3.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.922      | 17560.21    | 0.0008 | P   | 2.7 |
| 3 | <input type="checkbox"/> | 50.000   | 49.914     | 881928.23   | 0.0403 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 122.843    | 2148030.94  | 0.0992 | P   | 1.1 |
| 5 | <input type="checkbox"/> | 250.000  | 259.509    | 4407491.48  | 0.2095 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 498.971    | 8160434.39  | 0.4027 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.411    | 15939386.23 | 0.8057 | A   | 0.4 |
| 8 | <input type="checkbox"/> |          |            | 8078.60     | 0.0005 | P   | 3.4 |

$$y = 8.0691\text{E-}004 * x + 6.9069\text{E-}005$$

$$R = 0.9999$$

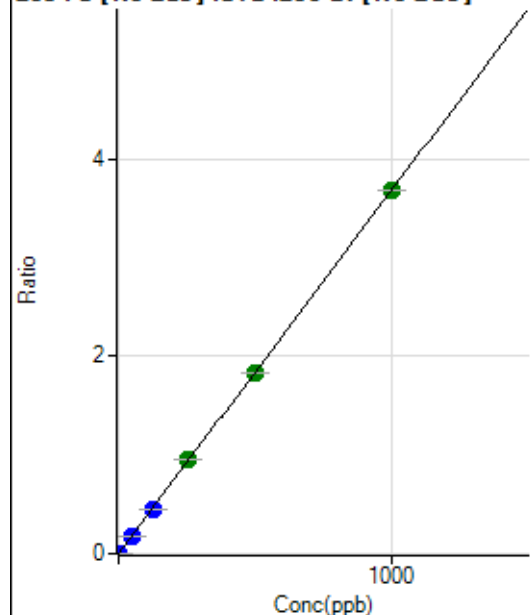
$$DL = 0.009521$$

$$BEC = 0.0856$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 5135.68     | 0.0002 | P   | 0.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.938      | 79804.04    | 0.0037 | P   | 1.1 |
| 3 | <input type="checkbox"/> | 50.000   | 49.874     | 4018274.24  | 0.1838 | P   | 0.9 |
| 4 | <input type="checkbox"/> | 125.000  | 123.758    | 9869912.94  | 0.4558 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 250.000  | 258.505    | 20026166.88 | 0.9518 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 498.743    | 37206709.81 | 1.8360 | A   | 0.3 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.664    | 72727207.87 | 3.6761 | A   | 0.1 |
| 8 | <input type="checkbox"/> |          |            | 35035.10    | 0.0020 | P   | 3.0 |

$$y = 0.0037 * x + 2.4030\text{E-}004$$

$$R = 1.0000$$

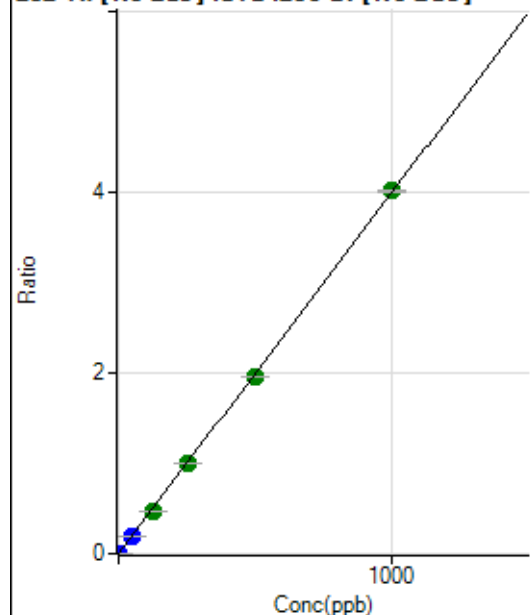
$$DL = 0.001519$$

$$BEC = 0.06528$$

Weight: &lt;None&gt;

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4410.14     | 0.0002 | P   | 1.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.803      | 73609.53    | 0.0034 | P   | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 47.101     | 4111391.21  | 0.1881 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 118.039    | 10200287.50 | 0.4710 | A   | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 249.202    | 20919254.17 | 0.9942 | A   | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 490.381    | 39641346.26 | 1.9562 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.024   | 79388516.59 | 4.0129 | A   | 0.8 |
| 8 | <input type="checkbox"/> |          |            | 14695.73    | 0.0009 | P   | 5.2 |

$$y = 0.0040 * x + 2.0635E-004$$

$$R = 0.9999$$

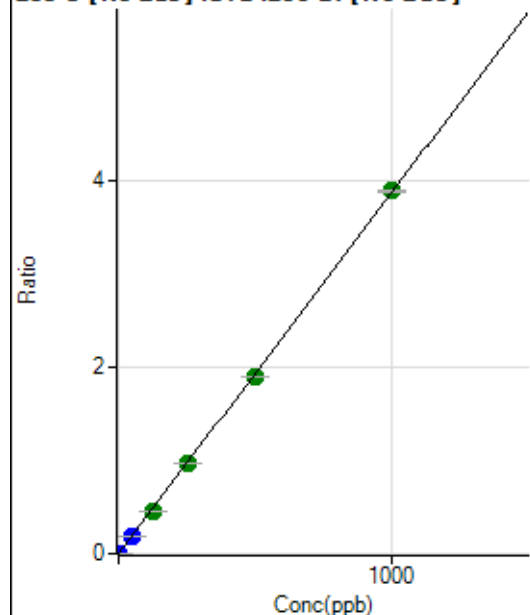
$$DL = 0.002911$$

$$BEC = 0.05173$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4456.52     | 0.0002 | P   | 4.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.863      | 76735.09    | 0.0036 | P   | 1.9 |
| 3 | <input type="checkbox"/> | 50.000   | 47.515     | 4030334.94  | 0.1844 | P   | 1.3 |
| 4 | <input type="checkbox"/> | 125.000  | 118.479    | 9948959.94  | 0.4594 | A   | 1.0 |
| 5 | <input type="checkbox"/> | 250.000  | 250.362    | 20422567.82 | 0.9706 | A   | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 491.475    | 38606810.58 | 1.9051 | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 1005.112   | 77075252.42 | 3.8960 | A   | 0.5 |
| 8 | <input type="checkbox"/> |          |            | 6757.62     | 0.0004 | P   | 7.7 |

$$y = 0.0039 * x + 2.0852E-004$$

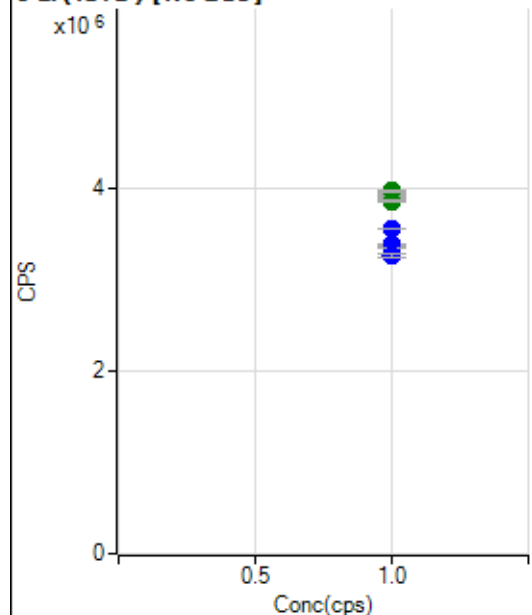
$$R = 0.9999$$

$$DL = 0.007224$$

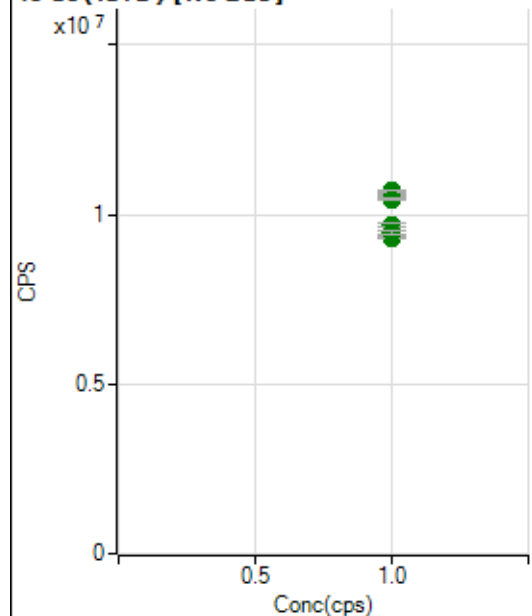
$$BEC = 0.0538$$

Weight: &lt;None&gt;

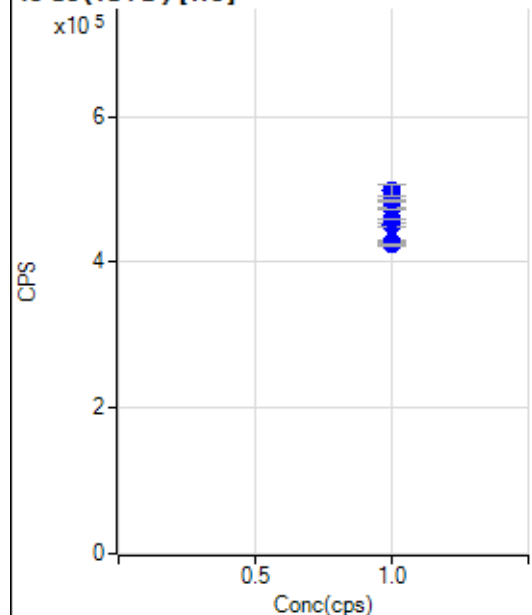
Min Conc: 0

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

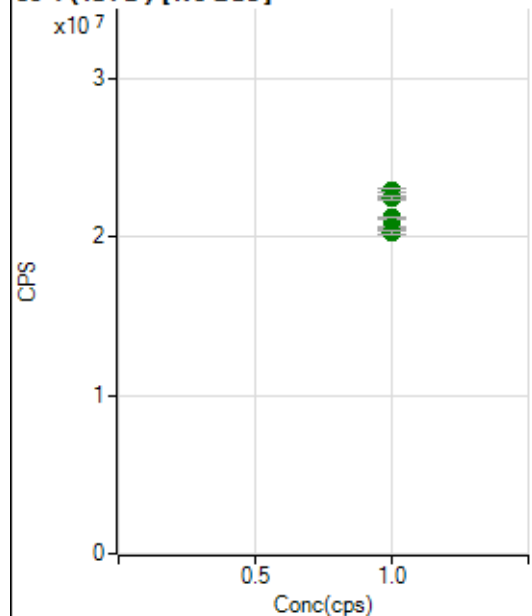
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3909304.99 |       | A    | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3923940.28 |       | A    | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3968483.43 |       | A    | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3855654.60 |       | A    | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3555318.35 |       | P    | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3384344.08 |       | P    | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3340236.39 |       | P    | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3259364.14 |       | P    | 1.1 |

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

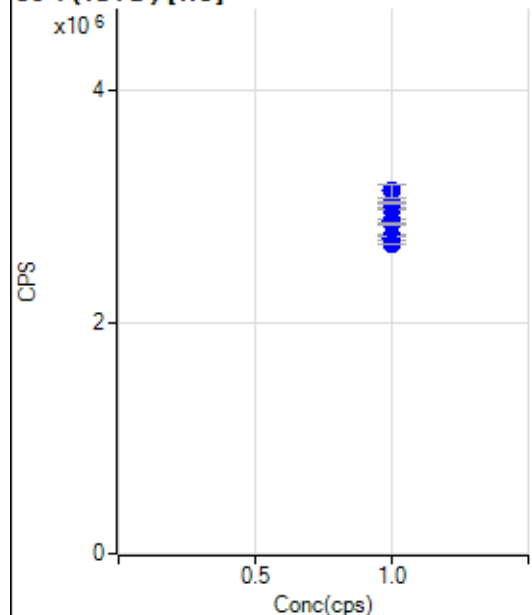
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10582206.23 |       | A    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10520939.38 |       | A    | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10692116.73 |       | A    | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10450714.64 |       | A    | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9694003.25  |       | A    | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9311465.49  |       | A    | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9319625.56  |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9480983.72  |       | A    | 1.3 |

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

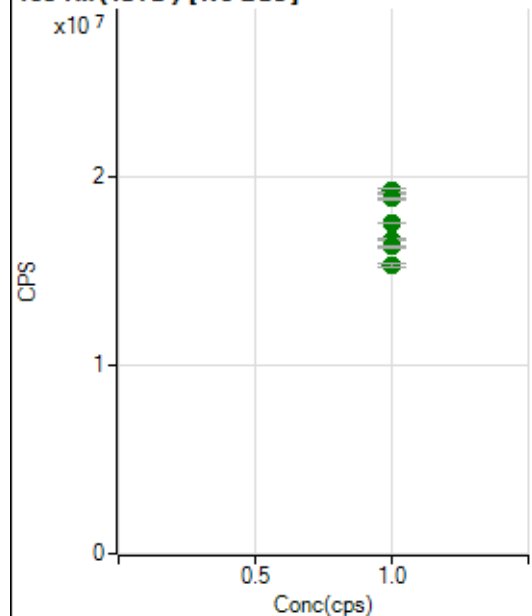
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 473954.22 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 484610.88 |       | P        | 0.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 497954.68 |       | P        | 3.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 451177.35 |       | P        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 427767.09 |       | P        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 426362.51 |       | P        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 424104.01 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 459776.78 |       | P        | 0.2 |

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

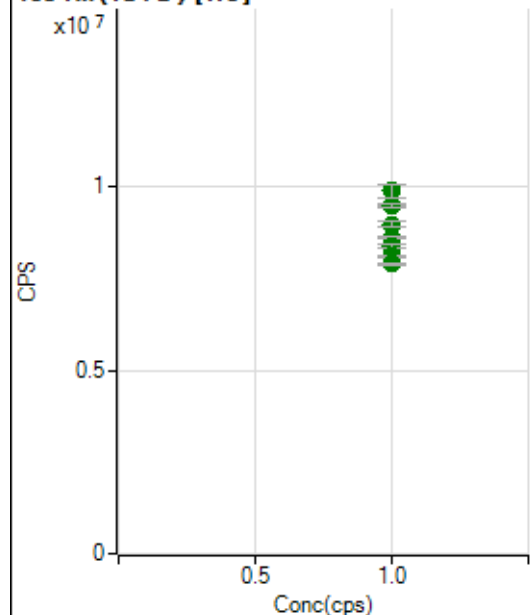
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 22540430.78 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 22570097.44 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 22909170.49 |       | A        | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 22449864.11 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 21218865.24 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20518294.56 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 20586728.16 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 20233843.59 |       | A        | 1.1 |

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

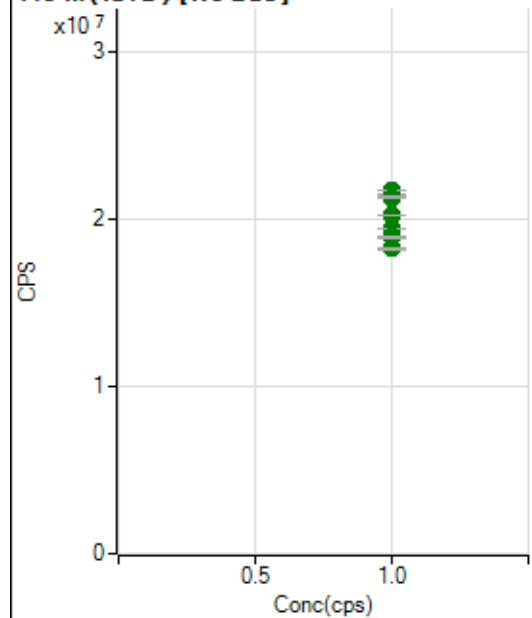
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2980154.12 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3031571.76 |       | P        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3134248.49 |       | P        | 3.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2868060.69 |       | P        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2746946.35 |       | P        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2726750.89 |       | P        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2674445.59 |       | P        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2851002.39 |       | P        | 0.3 |

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

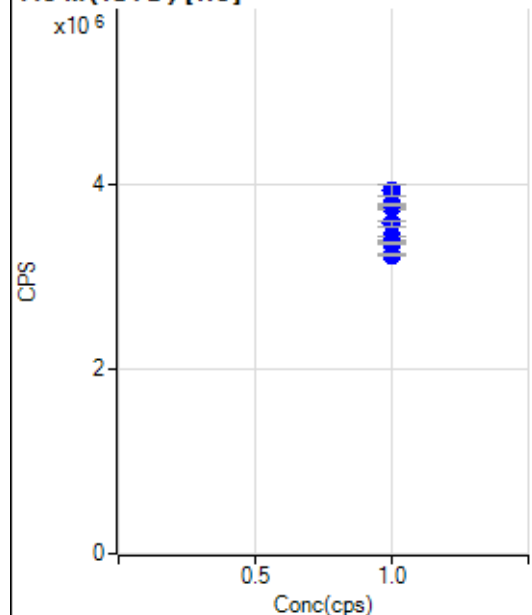
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 19106050.08 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 19108531.50 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 19217590.88 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 18816645.73 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 17509984.42 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 16639068.08 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 16247918.77 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15302230.72 |       | A        | 1.1 |

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

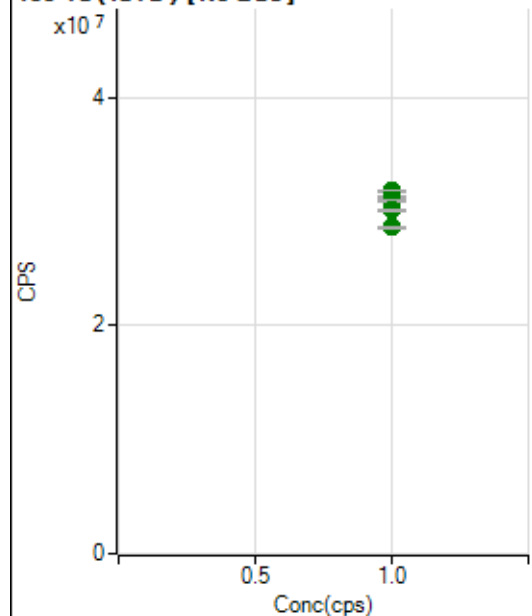
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9480084.09 |       | A   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9494351.73 |       | A   | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 9889234.65 |       | A   | 3.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8980254.31 |       | A   | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8615831.19 |       | A   | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8376172.58 |       | A   | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8114946.47 |       | A   | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7898134.81 |       | A   | 0.5 |

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

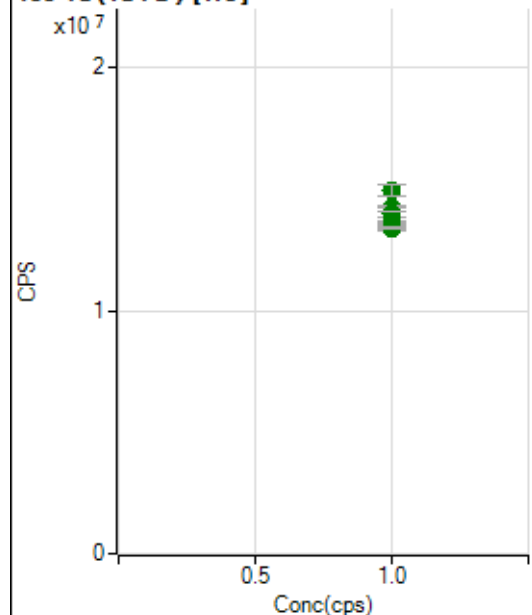
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 21391732.33 |       | A   | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 21391236.01 |       | A   | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 21684128.73 |       | A   | 0.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 21316373.66 |       | A   | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 20204711.61 |       | A   | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 19401626.75 |       | A   | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 18920412.06 |       | A   | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 18226412.21 |       | A   | 0.8 |

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

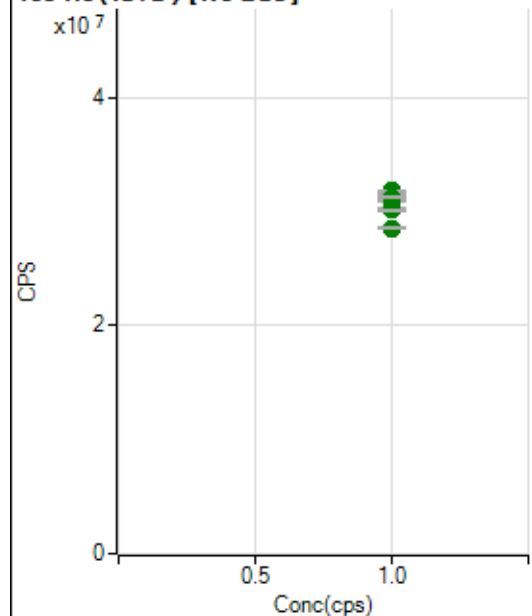
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3750750.34 |       | P        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3794433.98 |       | P        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3936327.95 |       | P        | 3.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3578952.71 |       | P        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3439403.09 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3375956.38 |       | P        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3238899.76 |       | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3363456.63 |       | P        | 0.5 |

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

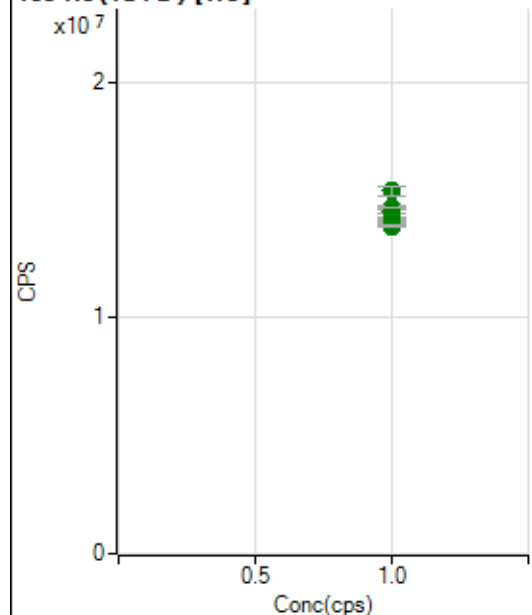
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 31281517.87 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 31234322.31 |       | A        | 0.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 31830870.36 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 31828545.08 |       | A        | 0.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 30992778.70 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 30144262.05 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 30132976.22 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 28642079.30 |       | A        | 0.4 |

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

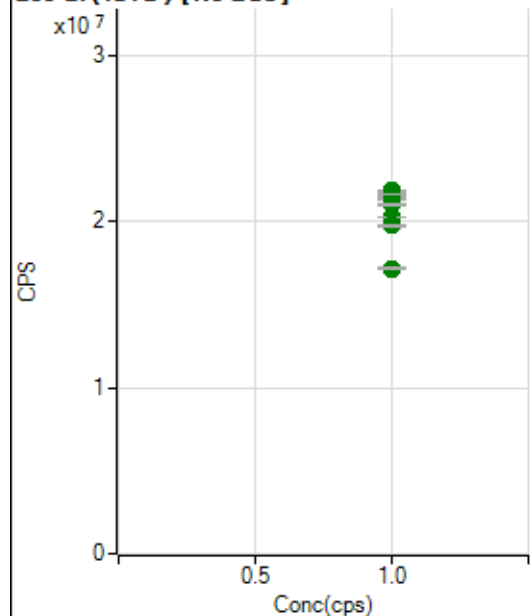
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14082821.32 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14273558.81 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 14930543.94 |       | A        | 3.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13982775.90 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13691486.33 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13569150.08 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13358952.02 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13424511.05 |       | A        | 0.3 |

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

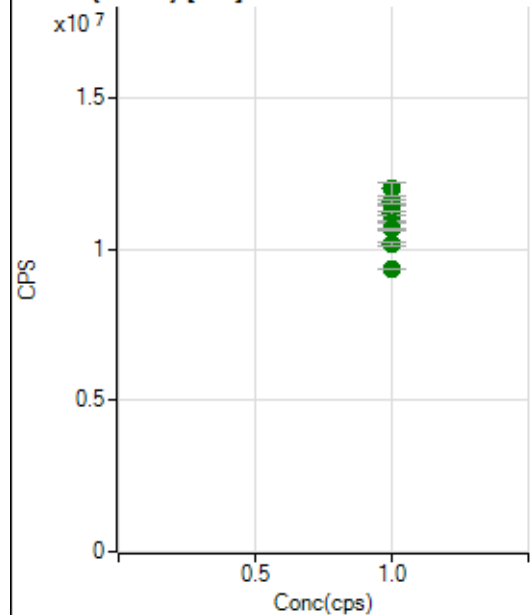
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 31235252.43 |       | A        | 1.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 30906118.40 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 31611701.40 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 31792274.67 |       | A        | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 31249398.96 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 30278652.41 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 30099947.90 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 28540349.59 |       | A        | 0.5 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14635380.48 |       | A    | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 14730390.75 |       | A    | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 15399496.57 |       | A    | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14543293.95 |       | A    | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14271845.34 |       | A    | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 14105477.71 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13915831.32 |       | A    | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13921084.10 |       | A    | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 21372571.35 |       | A    | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 21602178.01 |       | A    | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 21860658.01 |       | A    | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 21655378.98 |       | A    | 0.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 21041218.71 |       | A    | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 20264826.78 |       | A    | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 19783529.84 |       | A    | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 17171219.61 |       | A    | 0.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11491542.05 |       | A    | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11581652.74 |       | A    | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12004397.04 |       | A    | 3.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11220142.61 |       | A    | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10906565.53 |       | A    | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10659236.16 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10186146.72 |       | A    | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9344815.49  |       | A    | 0.1 |

US EPA Tune Check Sample Report

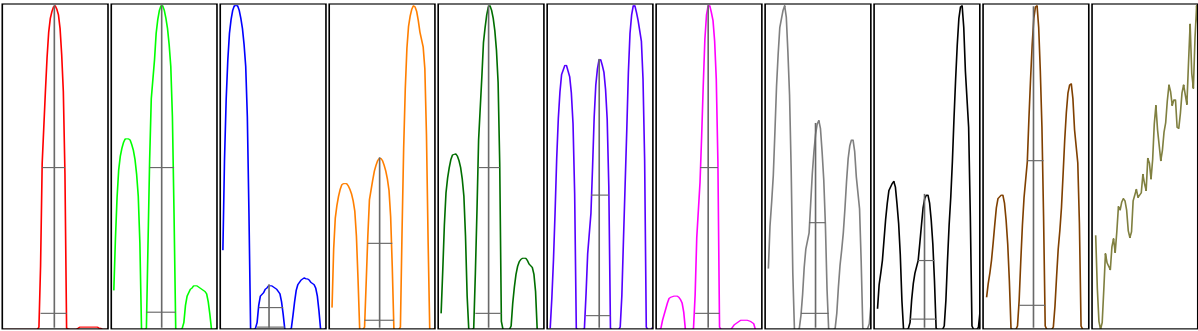
Batch Folder D:\ICP-MS Data\P7091019 MS.b  
Report Comment  
Instrument Name G8403A JP14410463

[No Gas]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
|------|-----------------|------------------|--------------------|----------------|
| 9    | 13918           | 0.27             | 5.00               |                |
| 24   | 187636          | 0.47             | 5.00               |                |
| 25   | 25278           | 0.44             | 5.00               |                |
| 26   | 29954           | 0.26             | 5.00               |                |
| 59   | 161036          | 0.41             | 5.00               |                |
| 113  | 24816           | 0.50             | 5.00               |                |
| 115  | 284752          | 0.38             | 5.00               |                |
| 206  | 82619           | 0.79             | 5.00               |                |
| 207  | 75449           | 0.82             | 5.00               |                |
| 208  | 178055          | 0.44             | 5.00               |                |
| 220  | 167             | 3.19             |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 13926                | 13978                | 13897                | 13908                | 13883                |
| 24   | 188494               | 188303               | 187152               | 187887               | 186343               |
| 25   | 25290                | 25326                | 25197                | 25429                | 25147                |
| 26   | 30016                | 30026                | 29946                | 29947                | 29832                |
| 59   | 161736               | 161432               | 160424               | 161335               | 160255               |
| 113  | 24902                | 24991                | 24756                | 24708                | 24722                |
| 115  | 286237               | 285276               | 284828               | 283667               | 283751               |
| 206  | 82911                | 83370                | 82856                | 82272                | 81686                |
| 207  | 75634                | 76265                | 75669                | 74983                | 74693                |
| 208  | 178963               | 178351               | 177938               | 178202               | 176822               |
| 220  | 159                  | 167                  | 169                  | 171                  | 172                  |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 22682          | 9.00             | 8.9 - 9.1          |                | 0.784                | 0.900                  |                        |
| 24   | 290364         | 23.95            | 23.9 - 24.1        |                | 0.834                | 0.900                  |                        |
| 25   | 39099          | 24.90            | 24.9 - 25.1        |                | 0.826                | 0.900                  |                        |
| 26   | 45720          | 25.95            | 25.9 - 26.1        |                | 0.834                | 0.900                  |                        |
| 59   | 270592         | 58.95            | 58.9 - 59.1        |                | 0.783                | 0.900                  |                        |
| 113  | 47536          | 113.00           | 112.9 - 113.1      |                | 0.727                | 0.900                  |                        |
| 115  | 549518         | 115.00           | 114.9 - 115.1      |                | 0.723                | 0.900                  |                        |
| 206  | 167047         | 205.95           | 205.9 - 206.1      |                | 0.775                | 0.900                  |                        |
| 207  | 153221         | 206.95           | 206.9 - 207.1      |                | 0.734                | 0.900                  |                        |
| 208  | 368596         | 207.95           | 207.9 - 208.1      |                | 0.749                | 0.900                  |                        |
| 220  |                |                  | -                  |                |                      |                        |                        |

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 268 Y Axis = Linear

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.3   | V    | Deflect       | 12.4  | V    |
| Extract 2     | -145.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -75    | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 170   | V    |                       |       |       |

[He]

| Mass | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 44741           | 0.34             |                    |
| 89   | 52682           | 0.31             |                    |
| 205  | 72494           | 0.36             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 44523                | 44826                | 44688                | 44934                | 44735                |
| 89   | 52557                | 52534                | 52632                | 52924                | 52765                |
| 205  | 72523                | 72077                | 72438                | 72681                | 72751                |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

| ParameterName | Value | Unit | ParameterName  | Value | Unit  | ParameterName       | Value | Unit         |
|---------------|-------|------|----------------|-------|-------|---------------------|-------|--------------|
| RF Power      | 1600  | W    | Carrier Gas    | 0.80  | L/min | S/C Temp            |       | 2 °C         |
| RF Matching   | 1.80  | V    | Option Gas     | 0.0   | %     | Gas Switch          |       | Dilution Gas |
| Smpl Depth    | 9.0   | mm   | Nebulizer Pump | 0.10  | rpm   | Makeup/Dilution Gas |       | 0.37 L/min   |

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.3   | V    | Deflect       | 1.4   | V    |
| Extract 2     | -155.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -85    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | Yes   |        | OctP Bias     | -18.0 | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 4.1   | mL/min | OctP RF       | 200   | V    |                       |       |       |