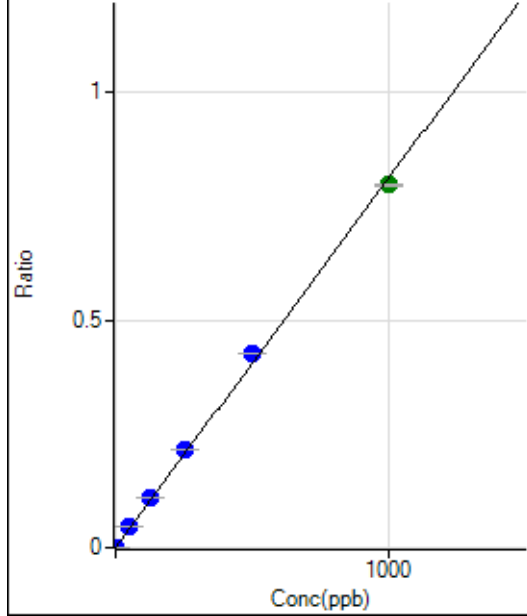


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7081724 MS.b\  
Analysis File: P7081724 MS.batch.bin  
DA Date-Time: 2024-08-17 21:40:55  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2024-08-17 17:55:06 |
| 2     | 005CALS.d          | S02         | 2024-08-17 17:58:23 |
| 3     | 006CALS.d          | S03         | 2024-08-17 18:01:42 |
| 4     | 007CALS.d          | S04         | 2024-08-17 18:04:44 |
| 5     | 008CALS.d          | S05         | 2024-08-17 18:07:39 |
| 6     | 009CALS.d          | S06         | 2024-08-17 18:10:27 |
| 7     | 010CALS.d          | S07         | 2024-08-17 18:13:15 |
| 8     | 011CALS.d          | S08         | 2024-08-17 18:16:00 |

**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      | 11.11      | 0.0000 | P   | 15.2 |
| 2 | <input type="checkbox"/> | 1.000    | 1.018      | 1538.98    | 0.0008 | P   | 3.9  |
| 3 | <input type="checkbox"/> | 50.000   | 55.470     | 85752.58   | 0.0450 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 134.795    | 217511.86  | 0.1094 | P   | 2.8  |
| 5 | <input type="checkbox"/> | 250.000  | 264.672    | 428902.25  | 0.2148 | P   | 1.0  |
| 6 | <input type="checkbox"/> | 500.000  | 524.412    | 849245.90  | 0.4255 | P   | 0.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 982.628    | 1635148.60 | 0.7973 | A   | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 328.90     | 0.0002 | P   | 13.2 |

$$y = 8.1141\text{E-}004 * x + 5.8786\text{E-}006$$

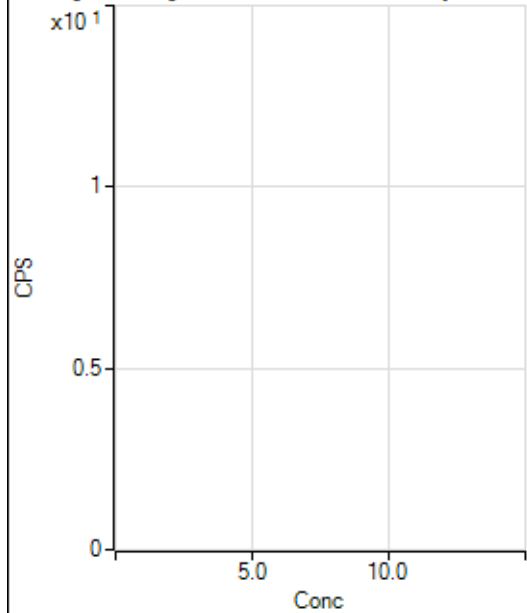
$$R = 0.9994$$

$$DL = 0.003305$$

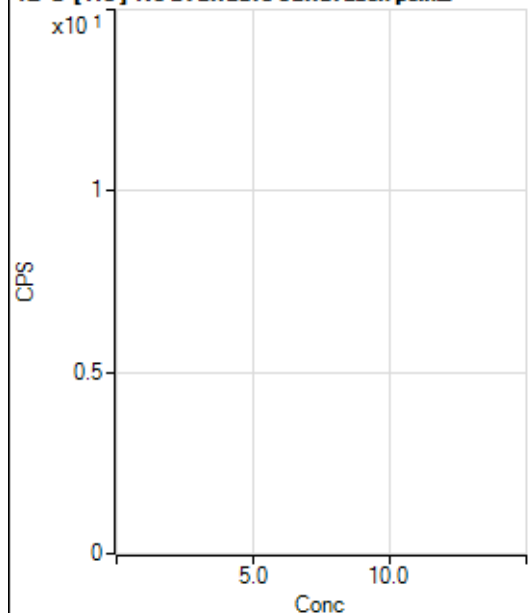
$$BEC = 0.007245$$

Weight: &lt;None&gt;

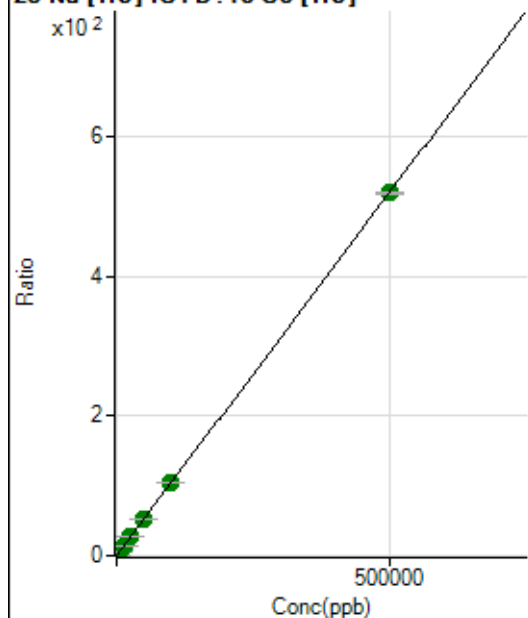
Min Conc: 0

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

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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 15777.05    | 0.0314   | P        | 2.3 |
| 2 | <input type="checkbox"/> | 500.000   | 502.502    | 277707.35   | 0.5546   | P        | 0.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5159.359   | 2677168.67  | 5.4033   | A        | 1.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 12825.092  | 6590595.67  | 13.3847  | A        | 1.3 |
| 5 | <input type="checkbox"/> | 25000.000 | 25427.121  | 12732893.14 | 26.5058  | A        | 0.3 |
| 6 | <input type="checkbox"/> | 50000.000 | 50836.015  | 24193674.92 | 52.9612  | A        | 1.0 |
| 7 | <input type="checkbox"/> | 100000.00 | 101757.24  | 46904897.63 | 105.9797 | A        | 0.3 |
| 8 | <input type="checkbox"/> | 500000.00 | 499533.87  | 235462180.9 | 520.1394 | A        | 0.6 |

$$y = 0.0010 * x + 0.0314$$

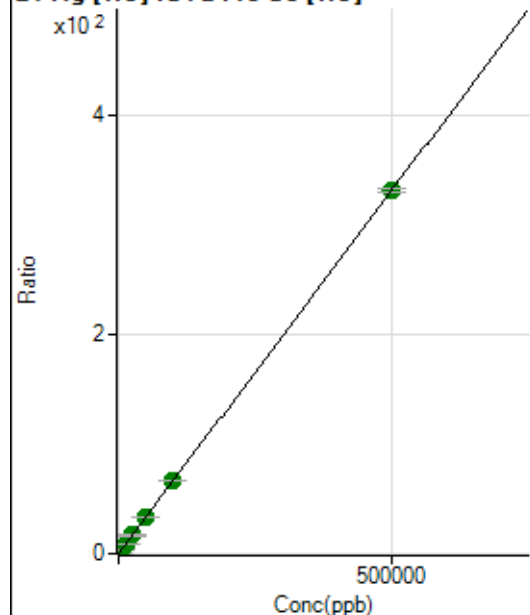
$$R = 1.0000$$

$$DL = 2.045$$

$$BEC = 30.19$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1172.28     | 0.0023   | P    | 1.3 |
| 2 | <input type="checkbox"/> | 500.000   | 492.421    | 164454.43   | 0.3284   | P    | 0.5 |
| 3 | <input type="checkbox"/> | 5000.000  | 5155.009   | 1692709.33  | 3.4163   | A    | 0.4 |
| 4 | <input type="checkbox"/> | 12500.000 | 12781.203  | 4169360.81  | 8.4669   | A    | 1.4 |
| 5 | <input type="checkbox"/> | 25000.000 | 25236.013  | 8029515.30  | 16.7153  | A    | 0.6 |
| 6 | <input type="checkbox"/> | 50000.000 | 50663.366  | 15328081.86 | 33.5549  | A    | 1.1 |
| 7 | <input type="checkbox"/> | 100000.00 | 100376.62  | 29422210.12 | 66.4783  | A    | 0.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 499837.96  | 149852305.5 | 331.0278 | A    | 0.9 |

$$y = 6.6227\text{E-}004 * x + 0.0023$$

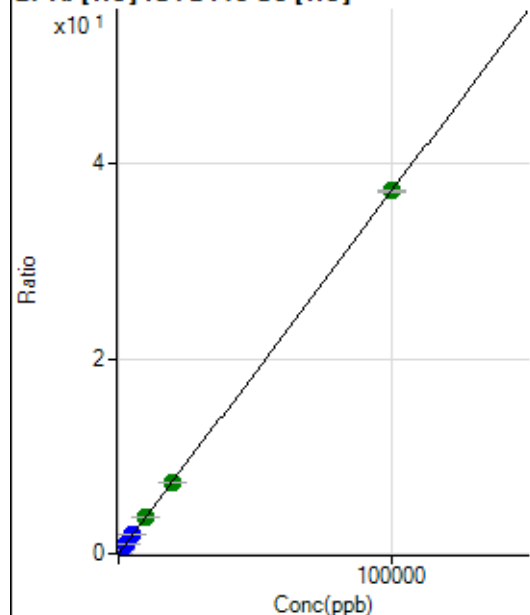
$$R = 1.0000$$

$$DL = 0.1326$$

$$BEC = 3.527$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 534.46      | 0.0011  | P    | 3.8 |
| 2 | <input type="checkbox"/> | 20.000    | 21.946     | 4615.17     | 0.0092  | P    | 1.2 |
| 3 | <input type="checkbox"/> | 1000.000  | 1036.549   | 191320.16   | 0.3861  | P    | 1.0 |
| 4 | <input type="checkbox"/> | 2500.000  | 2557.423   | 468326.89   | 0.9511  | P    | 0.8 |
| 5 | <input type="checkbox"/> | 5000.000  | 5076.106   | 906377.13   | 1.8868  | P    | 0.6 |
| 6 | <input type="checkbox"/> | 10000.000 | 9868.442   | 1675309.06  | 3.6672  | A    | 0.6 |
| 7 | <input type="checkbox"/> | 20000.000 | 19503.957  | 3207288.56  | 7.2467  | A    | 0.4 |
| 8 | <input type="checkbox"/> | 100000.00 | 100106.75  | 16835833.36 | 37.1905 | A    | 0.4 |

$$y = 3.7150\text{E-}004 * x + 0.0011$$

$$R = 1.0000$$

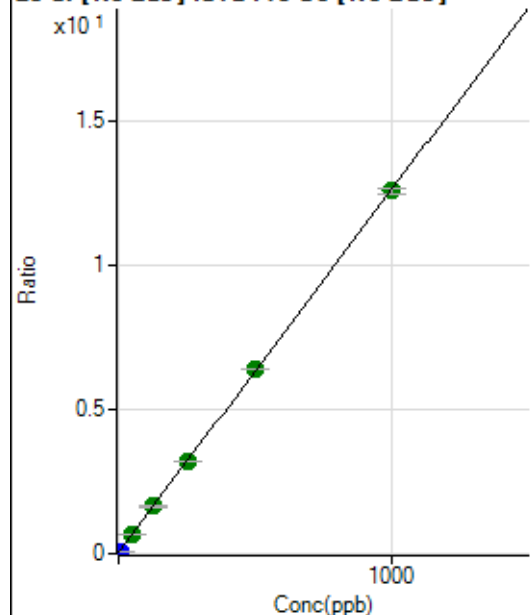
$$DL = 0.3273$$

$$BEC = 2.866$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 310183.79   | 0.0460  | P        | 1.6 |
| 2 | <input type="checkbox"/> | 10.000   | 0.301      | 333335.45   | 0.0498  | P        | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 50.580     | 4575511.18  | 0.6830  | A        | 2.0 |
| 4 | <input type="checkbox"/> | 125.000  | 126.563    | 11014964.84 | 1.6399  | A        | 1.2 |
| 5 | <input type="checkbox"/> | 250.000  | 249.391    | 21230386.91 | 3.1867  | A        | 0.2 |
| 6 | <input type="checkbox"/> | 500.000  | 506.738    | 41844862.71 | 6.4276  | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.656    | 80227053.81 | 12.5974 | A        | 1.5 |
| 8 | <input type="checkbox"/> |          |            | 423277.89   | 0.0676  | P        | 1.5 |

$$y = 0.0126 * x + 0.0460$$

$$R = 0.9999$$

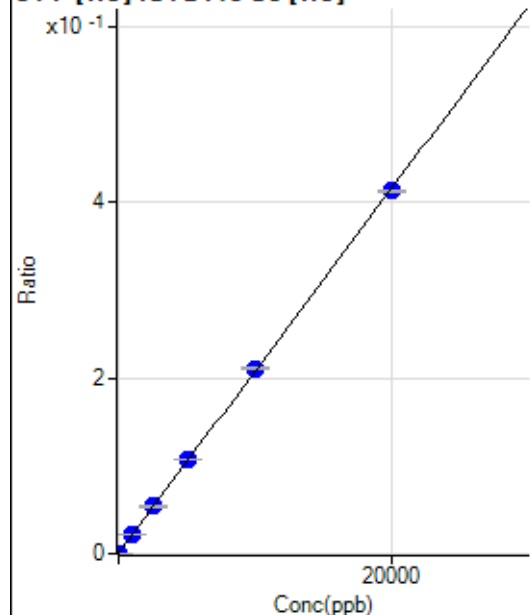
$$DL = 0.1753$$

$$BEC = 3.656$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | -15.722    | 128.89    | 0.0003 | P        | 10.1 |
| 2 | <input type="checkbox"/> | 0.000     | 15.722     | 455.57    | 0.0009 | P        | 6.8  |
| 3 | <input type="checkbox"/> | 1000.000  | 1053.686   | 11129.68  | 0.0225 | P        | 0.2  |
| 4 | <input type="checkbox"/> | 2500.000  | 2591.176   | 26772.33  | 0.0544 | P        | 3.1  |
| 5 | <input type="checkbox"/> | 5000.000  | 5141.644   | 51565.40  | 0.1073 | P        | 1.0  |
| 6 | <input type="checkbox"/> | 10000.000 | 10149.617  | 96534.21  | 0.2113 | P        | 1.3  |
| 7 | <input type="checkbox"/> | 20000.000 | 19875.699  | 182913.51 | 0.4133 | P        | 0.3  |
| 8 | <input type="checkbox"/> |           |            | 210.01    | 0.0005 | P        | 5.0  |

$$y = 2.0764E-005 * x + 5.8320E-004$$

$$R = 0.9999$$

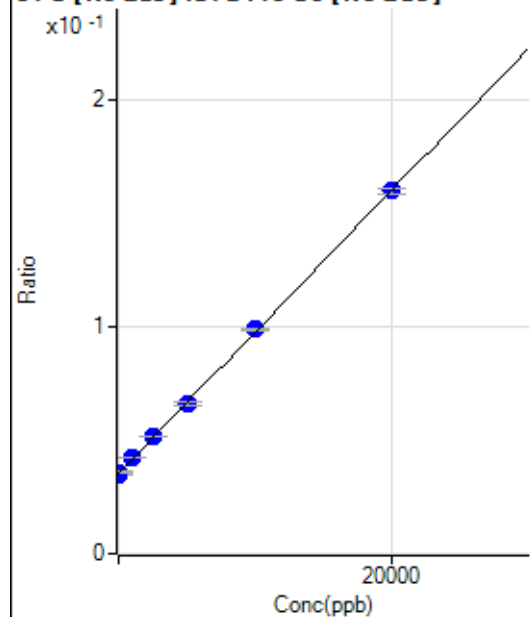
$$DL = 6.321$$

$$BEC = 28.09$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|-----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | -62.339    | 236359.34  | 0.0351 | P   | 1.7 |
| 2 | <input type="checkbox"/> | 0.000     | 62.339     | 239897.32  | 0.0359 | P   | 1.6 |
| 3 | <input type="checkbox"/> | 1000.000  | 1126.717   | 284620.95  | 0.0425 | P   | 0.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2565.505   | 345551.78  | 0.0514 | P   | 0.6 |
| 5 | <input type="checkbox"/> | 5000.000  | 4893.093   | 439252.19  | 0.0659 | P   | 1.5 |
| 6 | <input type="checkbox"/> | 10000.000 | 10139.103  | 641994.32  | 0.0986 | P   | 0.8 |
| 7 | <input type="checkbox"/> | 20000.000 | 19942.651  | 1016881.55 | 0.1597 | P   | 1.3 |
| 8 | <input type="checkbox"/> |           |            | 199734.02  | 0.0319 | P   | 3.5 |

$$y = 6.2280E-006 * x + 0.0355$$

R = 0.9999

DL = 277.8

BEC = 5695

Weight: &lt;None&gt;

Min Conc: 0

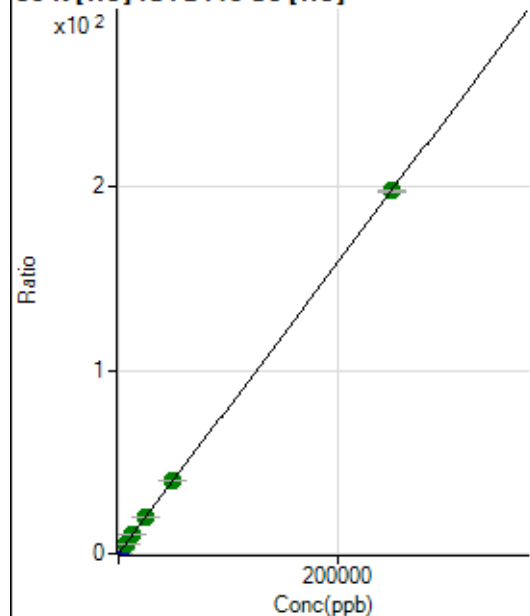
35 Cl [No Gas] No available calibration points



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

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

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

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 57180.46    | 0.1139   | P        | 1.0 |
| 2 | <input type="checkbox"/> | 500.000   | 516.615    | 261558.86   | 0.5224   | P        | 0.4 |
| 3 | <input type="checkbox"/> | 2500.000  | 2779.720   | 1145394.38  | 2.3117   | P        | 0.4 |
| 4 | <input type="checkbox"/> | 6250.000  | 6488.335   | 2582223.49  | 5.2439   | A        | 0.3 |
| 5 | <input type="checkbox"/> | 12500.000 | 12919.570  | 4961713.08  | 10.3287  | A        | 0.7 |
| 6 | <input type="checkbox"/> | 25000.000 | 25536.650  | 9274904.31  | 20.3044  | A        | 1.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 49985.910  | 17541785.29 | 39.6351  | A        | 0.8 |
| 8 | <input type="checkbox"/> | 250000.00 | 249919.38  | 89502330.89 | 197.7118 | A        | 0.5 |

$$y = 7.9065E-004 * x + 0.1139$$

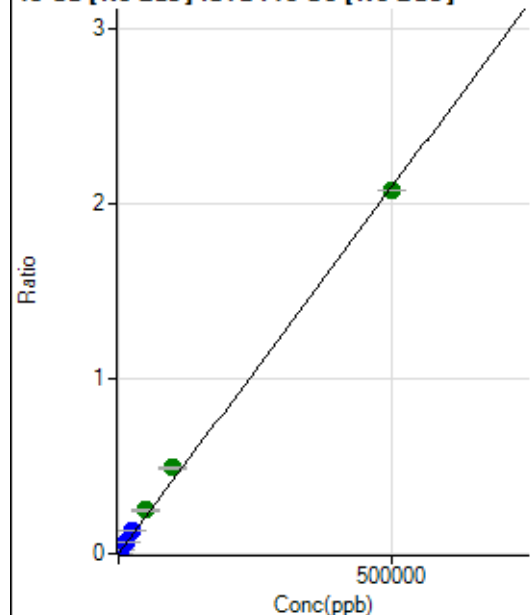
$$R = 1.0000$$

$$DL = 4.108$$

$$BEC = 144.1$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1190.06     | 0.0002 | P        | 4.3 |
| 2 | <input type="checkbox"/> | 500.000   | 528.345    | 15960.73    | 0.0024 | P        | 2.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 6335.863   | 178638.18   | 0.0267 | P        | 0.9 |
| 4 | <input type="checkbox"/> | 12500.000 | 15556.966  | 438038.51   | 0.0652 | P        | 0.9 |
| 5 | <input type="checkbox"/> | 25000.000 | 30722.691  | 856691.15   | 0.1286 | P        | 2.2 |
| 6 | <input type="checkbox"/> | 50000.000 | 59425.248  | 1618603.17  | 0.2486 | A        | 1.5 |
| 7 | <input type="checkbox"/> | 100000.00 | 117385.61  | 3126737.28  | 0.4909 | A        | 1.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 495204.40  | 12968067.17 | 2.0705 | A        | 0.1 |

$$y = 4.1807E-006 * x + 1.7666E-004$$

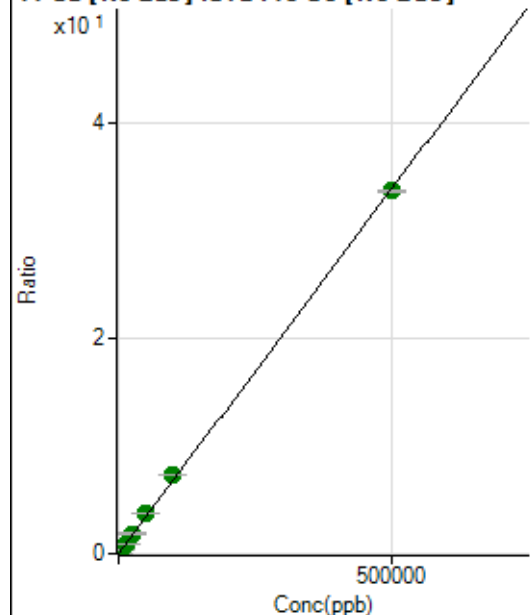
$$R = 0.9993$$

$$DL = 5.49$$

$$BEC = 42.26$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 28943.37    | 0.0043  | P        | 0.7 |
| 2 | <input type="checkbox"/> | 500.000   | 527.359    | 267281.74   | 0.0399  | P        | 1.2 |
| 3 | <input type="checkbox"/> | 5000.000  | 5601.540   | 2565885.09  | 0.3830  | A        | 1.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13784.634  | 6288361.15  | 0.9362  | A        | 1.1 |
| 5 | <input type="checkbox"/> | 25000.000 | 27613.408  | 12463574.68 | 1.8712  | A        | 2.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 54736.718  | 24120007.42 | 3.7049  | A        | 0.8 |
| 7 | <input type="checkbox"/> | 100000.00 | 108757.00  | 46854385.97 | 7.3571  | A        | 1.2 |
| 8 | <input type="checkbox"/> | 500000.00 | 497606.09  | 210738463.5 | 33.6461 | A        | 0.5 |

$$y = 6.7607E-005 * x + 0.0043$$

$$R = 0.9998$$

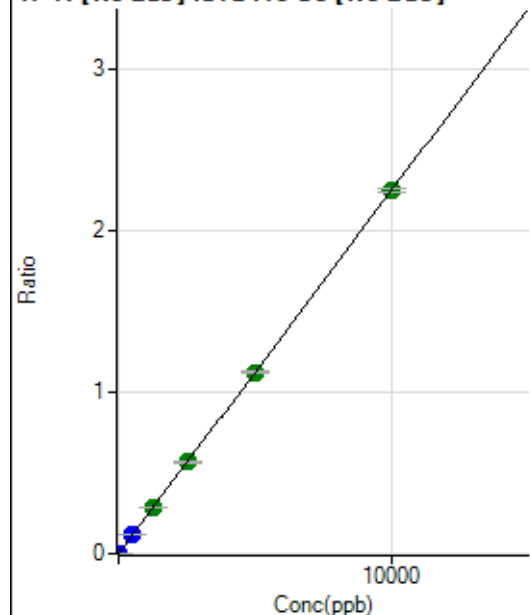
$$DL = 1.327$$

$$BEC = 63.53$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 165.56      | 0.0000 | P    | 3.1 |
| 2 | <input type="checkbox"/> | 5.000     | 4.365      | 6731.56     | 0.0010 | P    | 1.8 |
| 3 | <input type="checkbox"/> | 500.000   | 521.211    | 785300.80   | 0.1172 | P    | 0.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1283.860   | 1939122.18  | 0.2887 | A    | 1.6 |
| 5 | <input type="checkbox"/> | 2500.000  | 2524.859   | 3781949.18  | 0.5678 | A    | 1.6 |
| 6 | <input type="checkbox"/> | 5000.000  | 5002.158   | 7322754.41  | 1.1248 | A    | 1.2 |
| 7 | <input type="checkbox"/> | 10000.000 | 9987.414   | 14303167.01 | 2.2458 | A    | 1.0 |
| 8 | <input type="checkbox"/> |           |            | 3359.29     | 0.0005 | P    | 2.0 |

$$y = 2.2486\text{E-}004 * x + 2.4564\text{E-}005$$

$$R = 1.0000$$

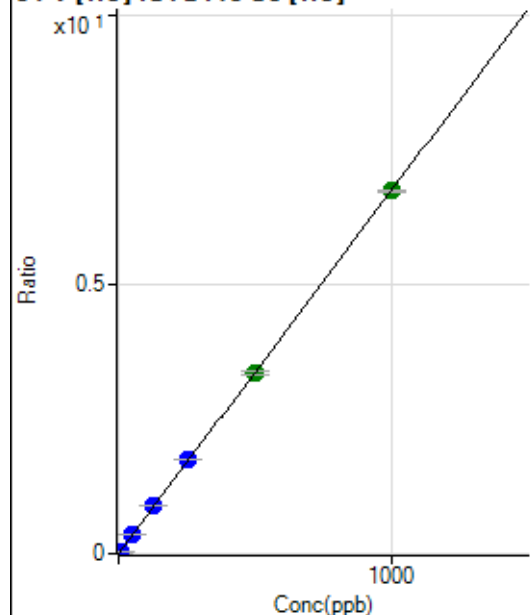
$$DL = 0.01011$$

$$BEC = 0.1092$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 17.78      | 0.0000 | P    | 28.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.837      | 16382.35   | 0.0327 | P    | 1.7  |
| 3 | <input type="checkbox"/> | 50.000   | 52.311     | 175131.08  | 0.3535 | P    | 0.6  |
| 4 | <input type="checkbox"/> | 125.000  | 130.460    | 434008.48  | 0.8815 | P    | 1.0  |
| 5 | <input type="checkbox"/> | 250.000  | 257.969    | 837273.83  | 1.7429 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 497.248    | 1534736.31 | 3.3596 | A    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.587    | 2985989.64 | 6.7468 | A    | 0.4  |
| 8 | <input type="checkbox"/> |          |            | 1171.17    | 0.0026 | P    | 3.3  |

$$y = 0.0068 * x + 3.5430\text{E-}005$$

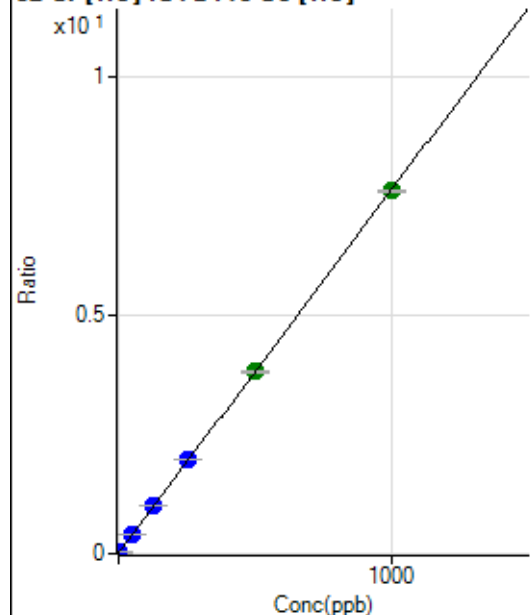
$$R = 1.0000$$

$$DL = 0.004543$$

$$BEC = 0.005244$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3598.25    | 0.0072 | P    | 4.3 |
| 2 | <input type="checkbox"/> | 2.000    | 1.942      | 11005.23   | 0.0220 | P    | 3.4 |
| 3 | <input type="checkbox"/> | 50.000   | 52.562     | 202169.75  | 0.4080 | P    | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 130.093    | 492056.91  | 0.9993 | P    | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 259.676    | 954797.26  | 1.9876 | P    | 0.4 |
| 6 | <input type="checkbox"/> | 500.000  | 499.699    | 1744215.28 | 3.8182 | A    | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 996.967    | 3368340.19 | 7.6107 | A    | 0.7 |
| 8 | <input type="checkbox"/> |          |            | 18988.71   | 0.0419 | P    | 1.1 |

$$y = 0.0076 * x + 0.0072$$

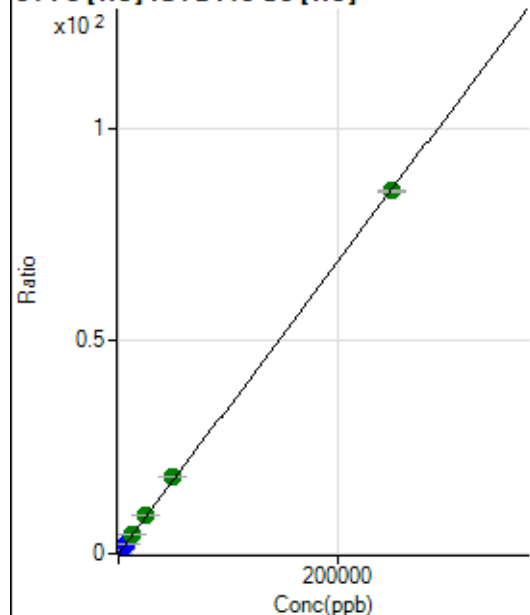
$$R = 0.9999$$

$$DL = 0.1204$$

$$BEC = 0.9401$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2221.29     | 0.0044  | P    | 2.1 |
| 2 | <input type="checkbox"/> | 50.000    | 54.439     | 11551.16    | 0.0231  | P    | 1.3 |
| 3 | <input type="checkbox"/> | 2500.000  | 2869.328   | 489088.69   | 0.9871  | P    | 0.2 |
| 4 | <input type="checkbox"/> | 6250.000  | 7121.107   | 1203055.37  | 2.4432  | P    | 0.4 |
| 5 | <input type="checkbox"/> | 12500.000 | 13521.198  | 2226564.52  | 4.6350  | A    | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26508.076  | 4148838.55  | 9.0827  | A    | 1.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 52673.263  | 7985704.12  | 18.0435 | A    | 0.3 |
| 8 | <input type="checkbox"/> | 250000.00 | 249238.00  | 38642106.92 | 85.3611 | A    | 0.4 |

$$y = 3.4247E-004 * x + 0.0044$$

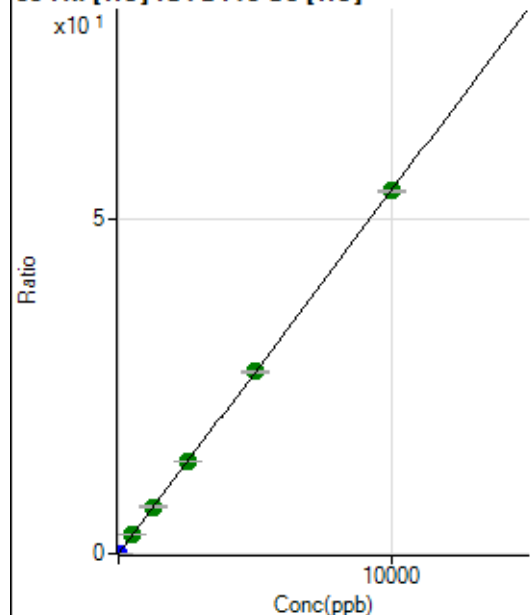
$$R = 0.9999$$

$$DL = 0.7965$$

$$BEC = 12.92$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1433.42     | 0.0029  | P    | 11.5 |
| 2 | <input type="checkbox"/> | 1.000     | 1.148      | 4550.72     | 0.0091  | P    | 1.0  |
| 3 | <input type="checkbox"/> | 500.000   | 510.826    | 1376049.88  | 2.7771  | A    | 0.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1290.883   | 3453057.93  | 7.0136  | A    | 1.7  |
| 5 | <input type="checkbox"/> | 2500.000  | 2532.188   | 6607569.69  | 13.7551 | A    | 0.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5003.031   | 12413394.82 | 27.1741 | A    | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 9984.786   | 24000957.70 | 54.2298 | A    | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 15538.12    | 0.0343  | P    | 2.8  |

$$y = 0.0054 * x + 0.0029$$

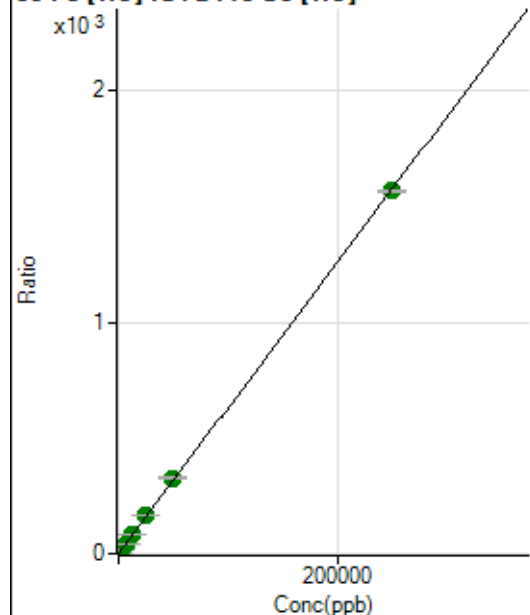
$$R = 1.0000$$

$$DL = 0.182$$

$$BEC = 0.5258$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 23948.62    | 0.0477    | P    | 2.2 |
| 2 | <input type="checkbox"/> | 50.000    | 53.555     | 192395.44   | 0.3842    | P    | 0.1 |
| 3 | <input type="checkbox"/> | 2500.000  | 2682.876   | 8377132.73  | 16.9068   | A    | 0.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 6667.254   | 20650404.97 | 41.9445   | A    | 2.1 |
| 5 | <input type="checkbox"/> | 12500.000 | 13221.185  | 39933385.52 | 83.1291   | A    | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 26118.345  | 74998468.33 | 164.1744  | A    | 1.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 52186.923  | 145160907.8 | 327.9883  | A    | 0.7 |
| 8 | <input type="checkbox"/> | 250000.00 | 249402.46  | 709498016.0 | 1,567.283 | A    | 0.3 |

$$y = 0.0063 * x + 0.0477$$

$$R = 1.0000$$

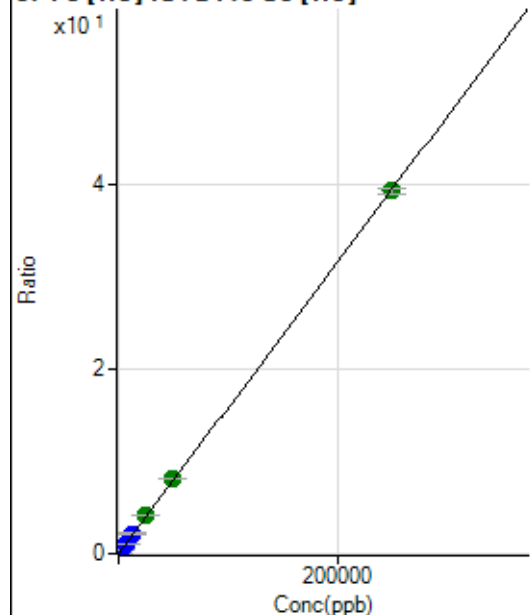
$$DL = 0.5022$$

$$BEC = 7.593$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2125.73     | 0.0042  | P    | 8.0 |
| 2 | <input type="checkbox"/> | 50.000    | 55.804     | 6520.36     | 0.0130  | P    | 1.2 |
| 3 | <input type="checkbox"/> | 2500.000  | 2838.256   | 223533.96   | 0.4511  | P    | 0.3 |
| 4 | <input type="checkbox"/> | 6250.000  | 7034.788   | 547385.81   | 1.1119  | P    | 2.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 13847.562  | 1049460.36  | 2.1847  | P    | 0.4 |
| 6 | <input type="checkbox"/> | 25000.000 | 26351.007  | 1897258.88  | 4.1534  | A    | 2.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 51581.800  | 3596528.24  | 8.1263  | A    | 0.5 |
| 8 | <input type="checkbox"/> | 250000.00 | 249458.15  | 17782855.15 | 39.2837 | A    | 1.3 |

$$y = 1.5746E-004 * x + 0.0042$$

$$R = 1.0000$$

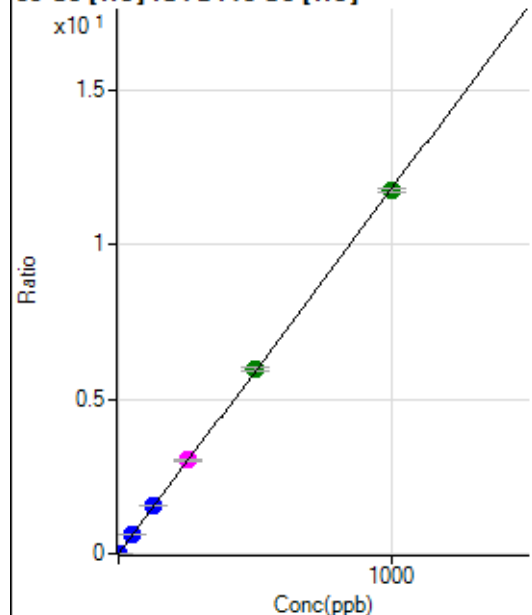
$$DL = 6.44$$

$$BEC = 26.9$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 134.45     | 0.0003  | P    | 14.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.015      | 6134.65    | 0.0123  | P    | 3.5  |
| 3 | <input type="checkbox"/> | 50.000   | 52.375     | 306677.10  | 0.6189  | P    | 0.2  |
| 4 | <input type="checkbox"/> | 125.000  | 129.834    | 755321.43  | 1.5339  | P    | 0.4  |
| 5 | <input type="checkbox"/> | 250.000  | 256.584    | 1456053.36 | 3.0312  | M    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 505.944    | 2730088.74 | 5.9767  | A    | 1.9  |
| 7 | <input type="checkbox"/> | 1000.000 | 994.659    | 5200194.68 | 11.7496 | A    | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 13774.19   | 0.0304  | P    | 0.4  |

$$y = 0.0118 * x + 2.6778E-004$$

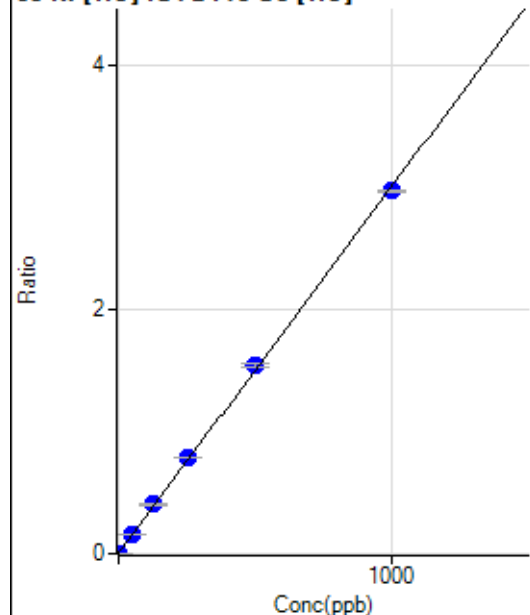
$$R = 0.9999$$

$$DL = 0.009937$$

$$BEC = 0.02267$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1180.06    | 0.0024 | P        | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.102      | 2834.74    | 0.0057 | P        | 3.2 |
| 3 | <input type="checkbox"/> | 50.000   | 53.607     | 80982.70   | 0.1634 | P        | 0.3 |
| 4 | <input type="checkbox"/> | 125.000  | 133.011    | 197975.11  | 0.4021 | P        | 0.9 |
| 5 | <input type="checkbox"/> | 250.000  | 261.112    | 378051.22  | 0.7870 | P        | 0.6 |
| 6 | <input type="checkbox"/> | 500.000  | 514.690    | 707543.04  | 1.5490 | P        | 1.7 |
| 7 | <input type="checkbox"/> | 1000.000 | 988.695    | 1315984.44 | 2.9734 | P        | 0.3 |
| 8 | <input type="checkbox"/> |          |            | 8142.29    | 0.0180 | P        | 1.4 |

$$y = 0.0030 * x + 0.0024$$

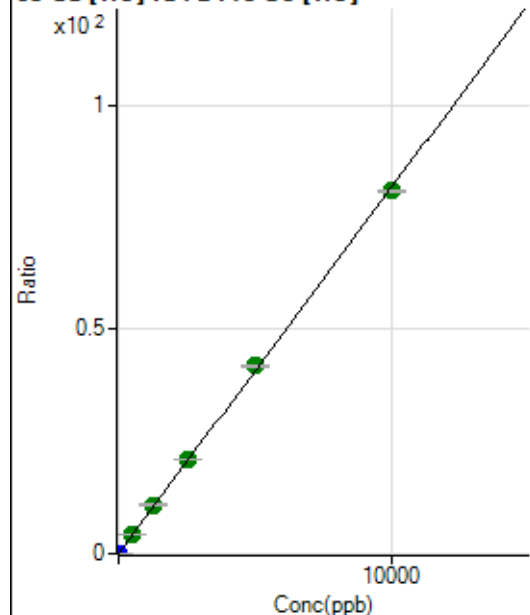
$$R = 0.9998$$

$$DL = 0.05561$$

$$BEC = 0.7824$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 1467.86     | 0.0029  | P        | 4.7 |
| 2 | <input type="checkbox"/> | 2.000     | 2.447      | 11456.68    | 0.0229  | P        | 2.0 |
| 3 | <input type="checkbox"/> | 500.000   | 533.955    | 2159222.69  | 4.3579  | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1250.000  | 1321.822   | 5308418.98  | 10.7838 | A        | 3.0 |
| 5 | <input type="checkbox"/> | 2500.000  | 2584.219   | 10126242.00 | 21.0799 | A        | 0.3 |
| 6 | <input type="checkbox"/> | 5000.000  | 5120.673   | 19080702.63 | 41.7674 | A        | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 9907.933   | 35766018.08 | 80.8125 | A        | 0.5 |
| 8 | <input type="checkbox"/> |           |            | 14840.78    | 0.0328  | P        | 1.4 |

$$y = 0.0082 * x + 0.0029$$

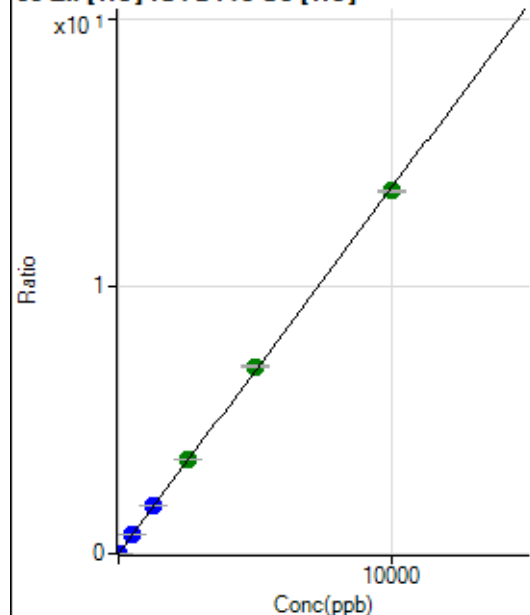
$$R = 0.9998$$

$$DL = 0.05045$$

$$BEC = 0.3586$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2371.33    | 0.0047  | P    | 5.1 |
| 2 | <input type="checkbox"/> | 5.000     | 5.240      | 5949.02    | 0.0119  | P    | 0.9 |
| 3 | <input type="checkbox"/> | 500.000   | 527.198    | 359140.25  | 0.7249  | P    | 1.3 |
| 4 | <input type="checkbox"/> | 1250.000  | 1310.331   | 883517.07  | 1.7946  | P    | 2.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2570.280   | 1688844.19 | 3.5157  | A    | 0.4 |
| 6 | <input type="checkbox"/> | 5000.000  | 5107.232   | 3189615.79 | 6.9811  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 10000.000 | 9919.913   | 5999178.10 | 13.5550 | A    | 0.8 |
| 8 | <input type="checkbox"/> |           |            | 4122.83    | 0.0091  | P    | 1.8 |

$$y = 0.0014 * x + 0.0047$$

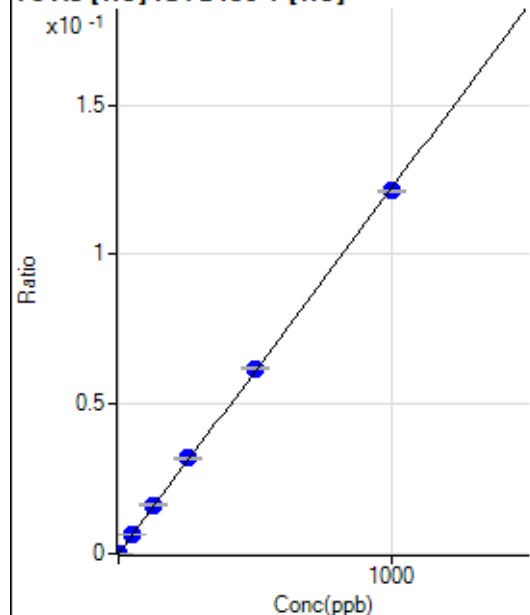
$$R = 0.9999$$

$$DL = 0.529$$

$$BEC = 3.458$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89      | 0.0000 | P    | 21.6 |
| 2 | <input type="checkbox"/> | 1.000    | 1.029      | 522.24    | 0.0001 | P    | 10.4 |
| 3 | <input type="checkbox"/> | 50.000   | 53.216     | 26535.97  | 0.0065 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 132.611    | 65793.85  | 0.0162 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 250.000  | 261.613    | 126871.19 | 0.0319 | P    | 1.1  |
| 6 | <input type="checkbox"/> | 500.000  | 505.975    | 239852.31 | 0.0618 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.997    | 458128.29 | 0.1213 | P    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 286.67    | 0.0001 | P    | 14.3 |

$$y = 1.2211E-004 * x + 2.1669E-006$$

$$R = 0.9999$$

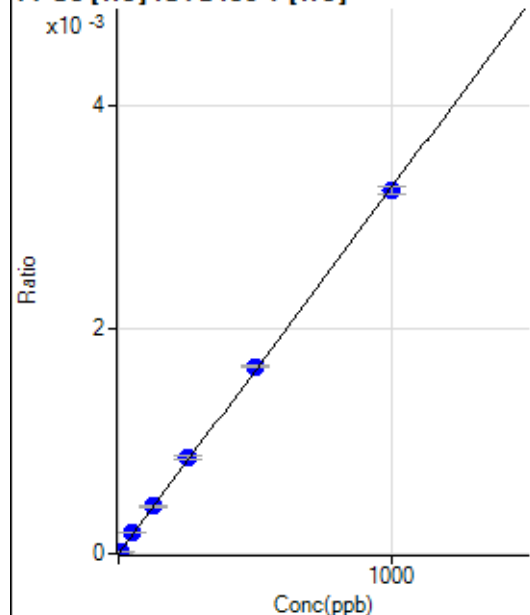
$$DL = 0.01152$$

$$BEC = 0.01775$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11     | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 5.000    | 4.588      | 62.22    | 0.0000 | P    | 33.4 |
| 3 | <input type="checkbox"/> | 50.000   | 56.890     | 760.03   | 0.0002 | P    | 0.4  |
| 4 | <input type="checkbox"/> | 125.000  | 130.380    | 1732.34  | 0.0004 | P    | 5.0  |
| 5 | <input type="checkbox"/> | 250.000  | 261.937    | 3401.54  | 0.0009 | P    | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 510.728    | 6480.36  | 0.0017 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.637    | 12231.79 | 0.0032 | P    | 2.1  |
| 8 | <input type="checkbox"/> |          |            | 7.78     | 0.0000 | P    | 108. |

$$y = 3.2680\text{E-}006 * x + 2.7056\text{E-}007$$

$$R = 0.9998$$

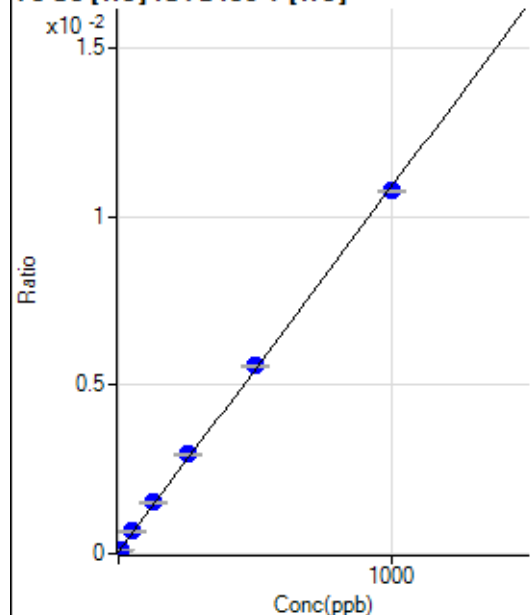
$$DL = 0.4302$$

$$BEC = 0.08279$$

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      | 241.11   | 0.0001 | P    | 18.8 |
| 2 | <input type="checkbox"/> | 5.000    | 5.898      | 501.13   | 0.0001 | P    | 11.3 |
| 3 | <input type="checkbox"/> | 50.000   | 55.506     | 2691.38  | 0.0007 | P    | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 135.804    | 6208.02  | 0.0015 | P    | 2.6  |
| 5 | <input type="checkbox"/> | 250.000  | 267.757    | 11738.07 | 0.0030 | P    | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 510.341    | 21667.06 | 0.0056 | P    | 1.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.760    | 40642.30 | 0.0108 | P    | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 251.12   | 0.0001 | P    | 15.9 |

$$y = 1.0820\text{E-}005 * x + 5.8767\text{E-}005$$

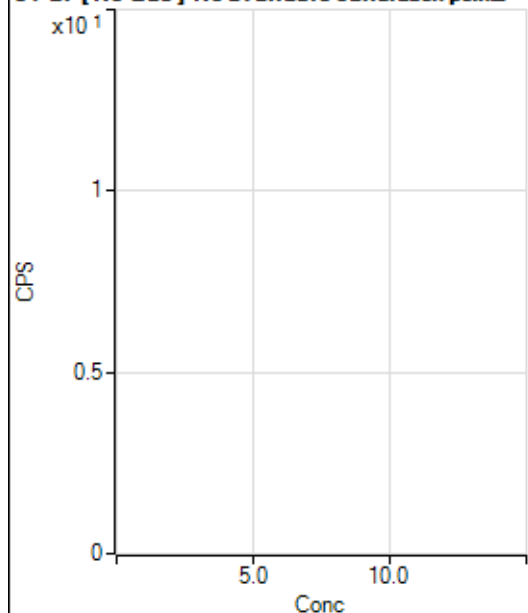
$$R = 0.9997$$

$$DL = 3.069$$

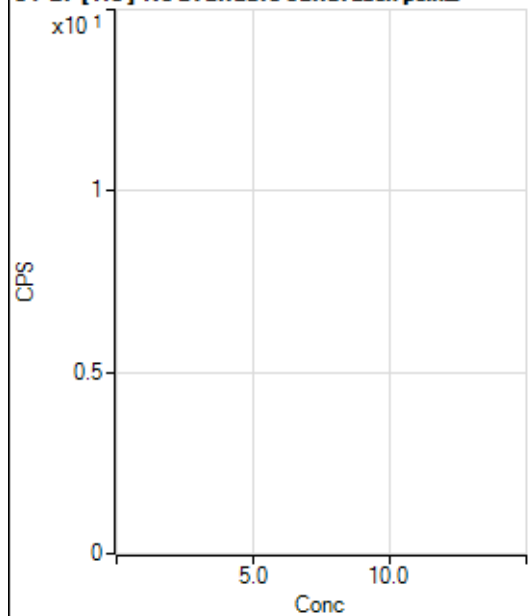
$$BEC = 5.431$$

Weight: &lt;None&gt;

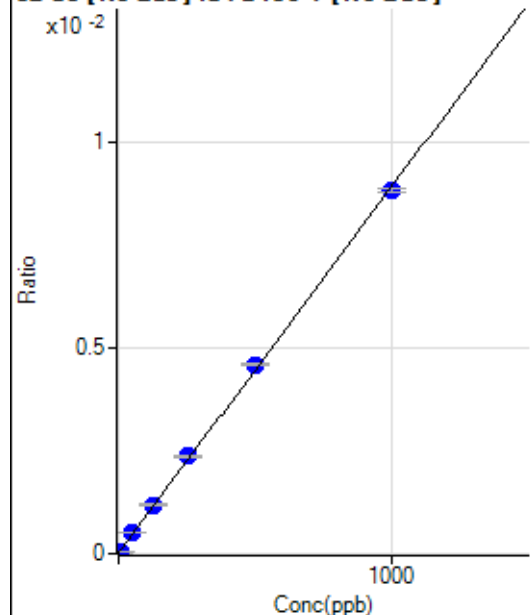
Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|---------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 8444.71 |       | P        | 2.9 |
| 2 | <input type="checkbox"/> |       |            | 8336.87 |       | P        | 2.4 |
| 3 | <input type="checkbox"/> |       |            | 8471.40 |       | P        | 3.0 |
| 4 | <input type="checkbox"/> |       |            | 8255.71 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> |       |            | 8245.71 |       | P        | 1.5 |
| 6 | <input type="checkbox"/> |       |            | 8073.39 |       | P        | 5.2 |
| 7 | <input type="checkbox"/> |       |            | 7703.19 |       | P        | 2.8 |
| 8 | <input type="checkbox"/> |       |            | 8874.98 |       | P        | 4.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 57.78 |       | P        | 38.4 |
| 2 | <input type="checkbox"/> |       |            | 55.55 |       | P        | 12.5 |
| 3 | <input type="checkbox"/> |       |            | 56.67 |       | P        | 11.8 |
| 4 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 9.7  |
| 5 | <input type="checkbox"/> |       |            | 57.78 |       | P        | 23.3 |
| 6 | <input type="checkbox"/> |       |            | 52.22 |       | P        | 13.3 |
| 7 | <input type="checkbox"/> |       |            | 63.33 |       | P        | 9.1  |
| 8 | <input type="checkbox"/> |       |            | 71.11 |       | P        | 11.8 |

**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      | 377.92    | 0.0000 | P    | 5.7 |
| 2 | <input type="checkbox"/> | 5.000    | 5.335      | 1235.59   | 0.0001 | P    | 2.7 |
| 3 | <input type="checkbox"/> | 50.000   | 54.109     | 9083.30   | 0.0005 | P    | 2.8 |
| 4 | <input type="checkbox"/> | 125.000  | 131.522    | 21760.09  | 0.0012 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 263.407    | 42227.42  | 0.0024 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 513.559    | 79892.80  | 0.0046 | P    | 0.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 988.846    | 149190.03 | 0.0088 | P    | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 587.64    | 0.0000 | P    | 5.5 |

$$y = 8.9043\text{E-}006 * x + 2.0817\text{E-}005$$

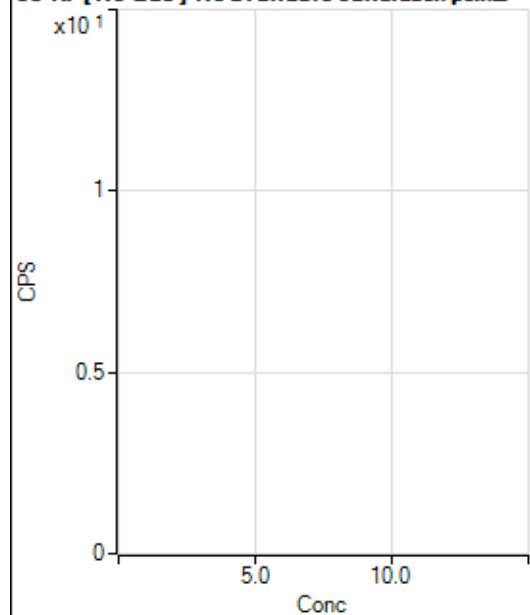
$$R = 0.9998$$

$$DL = 0.397$$

$$BEC = 2.338$$

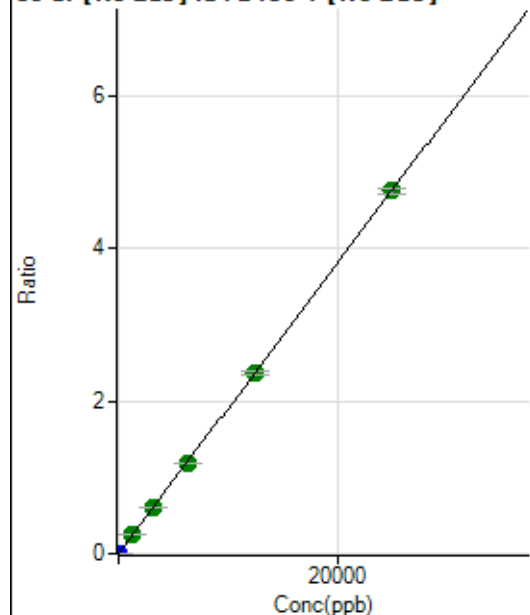
Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 234.45 |       | P    | 10.7 |
| 2 | <input type="checkbox"/> |       |            | 212.22 |       | P    | 3.3  |
| 3 | <input type="checkbox"/> |       |            | 234.45 |       | P    | 12.1 |
| 4 | <input type="checkbox"/> |       |            | 227.78 |       | P    | 0.8  |
| 5 | <input type="checkbox"/> |       |            | 210.00 |       | P    | 1.6  |
| 6 | <input type="checkbox"/> |       |            | 226.67 |       | P    | 5.3  |
| 7 | <input type="checkbox"/> |       |            | 205.56 |       | P    | 18.8 |
| 8 | <input type="checkbox"/> |       |            | 270.01 |       | P    | 2.1  |

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 432.23      | 0.0000 | P        | 9.0 |
| 2 | <input type="checkbox"/> | 1.000     | 0.961      | 3733.84     | 0.0002 | P        | 3.6 |
| 3 | <input type="checkbox"/> | 1250.000  | 1278.847   | 4392645.53  | 0.2430 | A        | 0.8 |
| 4 | <input type="checkbox"/> | 3125.000  | 3174.849   | 11014425.81 | 0.6033 | A        | 0.7 |
| 5 | <input type="checkbox"/> | 6250.000  | 6266.876   | 21252129.68 | 1.1909 | A        | 0.5 |
| 6 | <input type="checkbox"/> | 12500.000 | 12451.136  | 41147491.61 | 2.3660 | A        | 1.7 |
| 7 | <input type="checkbox"/> | 25000.000 | 25012.539  | 80341803.25 | 4.7530 | A        | 1.6 |
| 8 | <input type="checkbox"/> |           |            | 18610.77    | 0.0011 | P        | 6.8 |

$$y = 1.9002\text{E-}004 * x + 2.3825\text{E-}005$$

$$R = 1.0000$$

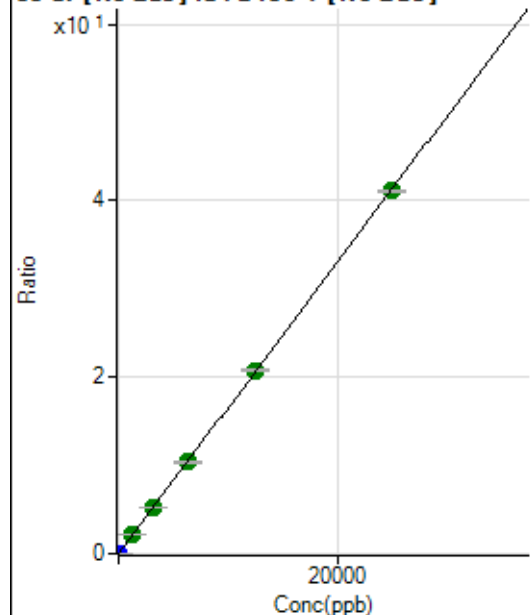
$$DL = 0.03397$$

$$BEC = 0.1254$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 830.03      | 0.0000  | P        | 10.1 |
| 2 | <input type="checkbox"/> | 1.000     | 0.982      | 30113.03    | 0.0017  | P        | 1.4  |
| 3 | <input type="checkbox"/> | 1250.000  | 1288.422   | 38392210.26 | 2.1244  | A        | 1.2  |
| 4 | <input type="checkbox"/> | 3125.000  | 3177.925   | 95657595.24 | 5.2398  | A        | 0.8  |
| 5 | <input type="checkbox"/> | 6250.000  | 6283.679   | 184892675.0 | 10.3605 | A        | 0.8  |
| 6 | <input type="checkbox"/> | 12500.000 | 12613.251  | 361687985.7 | 20.7966 | A        | 0.9  |
| 7 | <input type="checkbox"/> | 25000.000 | 24926.418  | 694749234.0 | 41.0983 | A        | 0.8  |
| 8 | <input type="checkbox"/> |           |            | 162769.81   | 0.0099  | P        | 7.3  |

$$y = 0.0016 * x + 4.5662\text{E-}005$$

$$R = 1.0000$$

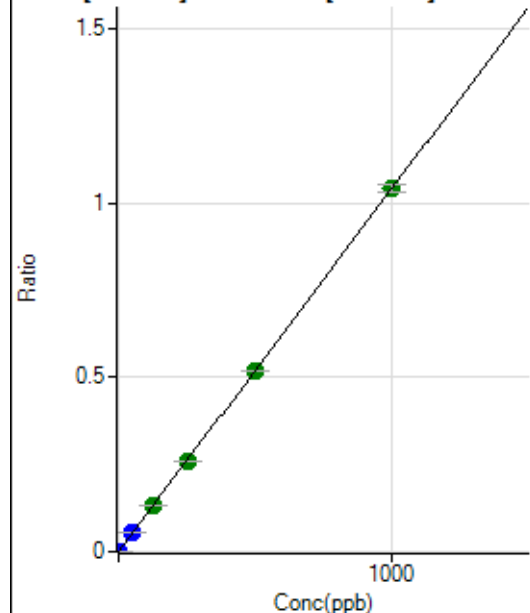
$$DL = 0.008408$$

$$BEC = 0.02769$$

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      | 694.47      | 0.0000 | P    | 2.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.840      | 16499.71    | 0.0009 | P    | 1.5 |
| 3 | <input type="checkbox"/> | 50.000   | 50.747     | 955142.46   | 0.0529 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 125.000  | 126.505    | 2404226.91  | 0.1317 | A    | 0.7 |
| 5 | <input type="checkbox"/> | 250.000  | 249.131    | 4627424.72  | 0.2593 | A    | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 499.198    | 9036075.01  | 0.5196 | A    | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.393   | 17598446.54 | 1.0411 | A    | 2.0 |
| 8 | <input type="checkbox"/> |          |            | 11096.51    | 0.0007 | P    | 2.3 |

$$y = 0.0010 * x + 3.8252E-005$$

$$R = 1.0000$$

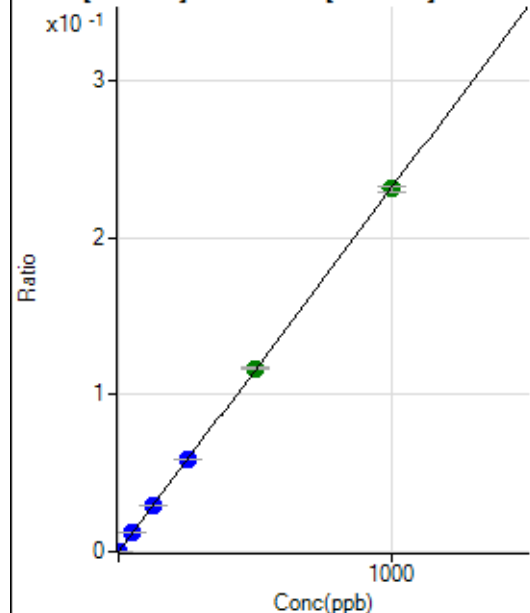
$$DL = 0.002458$$

$$BEC = 0.03676$$

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      | 142.23     | 0.0000 | P    | 6.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.821      | 3576.03    | 0.0002 | P    | 3.3 |
| 3 | <input type="checkbox"/> | 50.000   | 51.172     | 214173.17  | 0.0119 | P    | 1.4 |
| 4 | <input type="checkbox"/> | 125.000  | 125.504    | 530427.05  | 0.0291 | P    | 0.2 |
| 5 | <input type="checkbox"/> | 250.000  | 253.367    | 1046590.19 | 0.0586 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 502.777    | 2023857.70 | 0.1164 | A    | 1.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 997.648    | 3903104.83 | 0.2309 | A    | 1.4 |
| 8 | <input type="checkbox"/> |          |            | 2639.16    | 0.0002 | P    | 0.5 |

$$y = 2.3144E-004 * x + 7.8280E-006$$

$$R = 1.0000$$

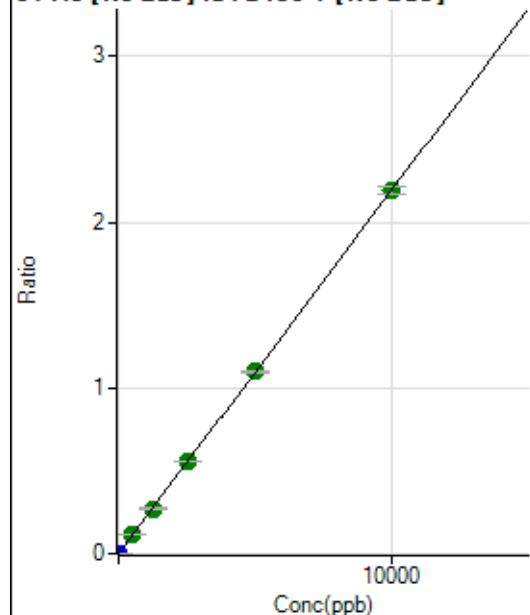
$$DL = 0.006869$$

$$BEC = 0.03382$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 393.34      | 0.0000 | P        | 6.6 |
| 2 | <input type="checkbox"/> | 5.000     | 4.975      | 20103.86    | 0.0011 | P        | 1.9 |
| 3 | <input type="checkbox"/> | 500.000   | 507.533    | 2010013.84  | 0.1112 | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1240.243   | 4961135.62  | 0.2717 | A        | 1.3 |
| 5 | <input type="checkbox"/> | 2500.000  | 2536.090   | 9916008.19  | 0.5557 | A        | 0.2 |
| 6 | <input type="checkbox"/> | 5000.000  | 5009.216   | 19087054.16 | 1.0975 | A        | 1.2 |
| 7 | <input type="checkbox"/> | 10000.000 | 9987.213   | 36985444.73 | 2.1881 | A        | 2.1 |
| 8 | <input type="checkbox"/> |           |            | 12505.44    | 0.0008 | P        | 5.1 |

$$y = 2.1909\text{E-}004 * x + 2.1661\text{E-}005$$

$$R = 1.0000$$

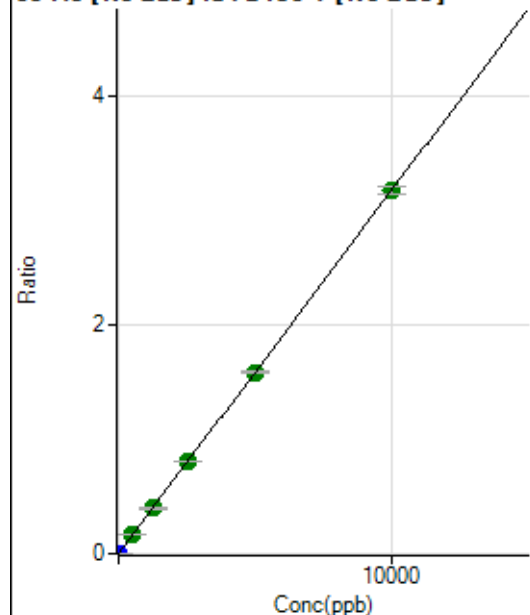
$$DL = 0.0197$$

$$BEC = 0.09887$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 292.23      | 0.0000 | P        | 12.4 |
| 2 | <input type="checkbox"/> | 5.000     | 4.297      | 24986.93    | 0.0014 | P        | 0.3  |
| 3 | <input type="checkbox"/> | 500.000   | 511.975    | 2941207.35  | 0.1627 | A        | 0.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1251.396   | 7261365.45  | 0.3977 | A        | 1.4  |
| 5 | <input type="checkbox"/> | 2500.000  | 2536.681   | 14387901.31 | 0.8062 | A        | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5001.097   | 27643909.59 | 1.5895 | A        | 1.2  |
| 7 | <input type="checkbox"/> | 10000.000 | 9989.508   | 53666551.42 | 3.1750 | A        | 2.0  |
| 8 | <input type="checkbox"/> |           |            | 14411.68    | 0.0009 | P        | 8.1  |

$$y = 3.1783\text{E-}004 * x + 1.6072\text{E-}005$$

$$R = 1.0000$$

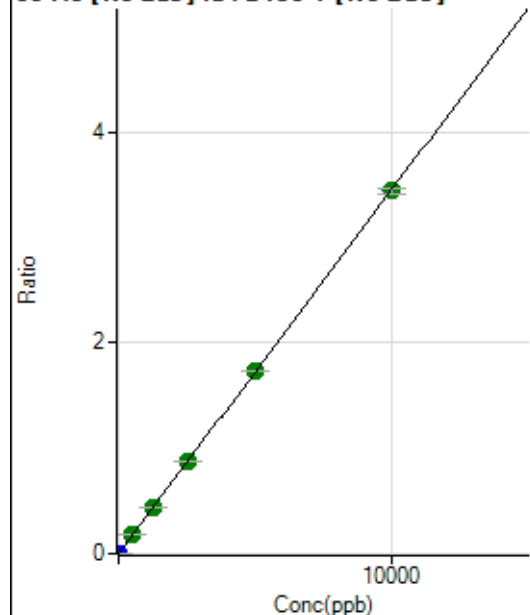
$$DL = 0.01878$$

$$BEC = 0.05057$$

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<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 374.45      | 0.0000 | P        | 11.0 |
| 2 | <input type="checkbox"/> | 5.000     | 4.469      | 28246.22    | 0.0016 | P        | 0.5  |
| 3 | <input type="checkbox"/> | 500.000   | 516.779    | 3221489.54  | 0.1782 | A        | 0.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1253.999   | 7895741.96  | 0.4325 | A        | 1.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2539.670   | 15630799.63 | 0.8759 | A        | 0.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 5028.736   | 30163538.72 | 1.7343 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9974.376   | 58145328.02 | 3.4399 | A        | 1.9  |
| 8 | <input type="checkbox"/> |           |            | 25659.29    | 0.0016 | P        | 1.8  |

$$y = 3.4488\text{E-}004 * x + 2.0645\text{E-}005$$

$$R = 1.0000$$

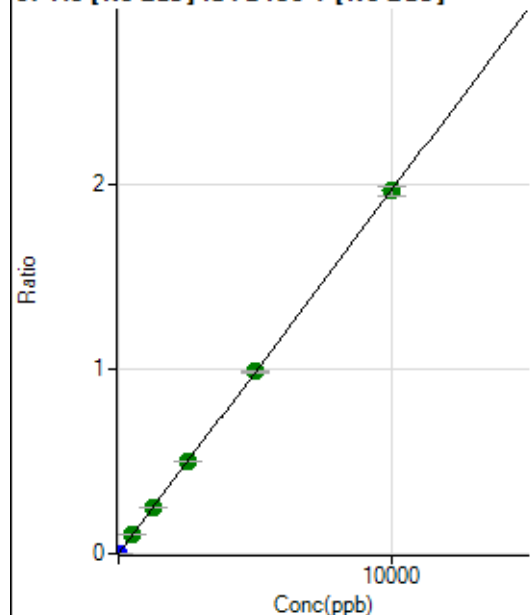
$$DL = 0.01967$$

$$BEC = 0.05986$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 192.23      | 0.0000 | P        | 19.4 |
| 2 | <input type="checkbox"/> | 5.000     | 4.345      | 15694.05    | 0.0009 | P        | 1.5  |
| 3 | <input type="checkbox"/> | 500.000   | 513.511    | 1831055.30  | 0.1013 | A        | 1.3  |
| 4 | <input type="checkbox"/> | 1250.000  | 1262.653   | 4547694.03  | 0.2491 | A        | 1.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2538.045   | 8935174.17  | 0.5007 | A        | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5002.791   | 17164517.25 | 0.9869 | A        | 0.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9986.837   | 33300374.22 | 1.9701 | A        | 2.4  |
| 8 | <input type="checkbox"/> |           |            | 8983.95     | 0.0005 | P        | 8.4  |

$$y = 1.9727\text{E-}004 * x + 1.0564\text{E-}005$$

$$R = 1.0000$$

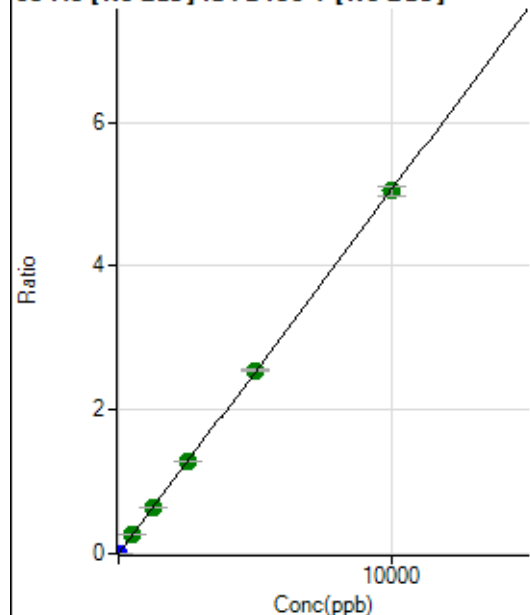
$$DL = 0.03122$$

$$BEC = 0.05355$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 448.90      | 0.0000 | P    | 6.7 |
| 2 | <input type="checkbox"/> | 5.000     | 4.378      | 40477.10    | 0.0022 | P    | 1.5 |
| 3 | <input type="checkbox"/> | 500.000   | 510.465    | 4664653.85  | 0.2581 | A    | 0.4 |
| 4 | <input type="checkbox"/> | 1250.000  | 1264.211   | 11668649.27 | 0.6392 | A    | 0.7 |
| 5 | <input type="checkbox"/> | 2500.000  | 2524.006   | 22772204.38 | 1.2761 | A    | 0.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 5032.164   | 44246589.34 | 2.5441 | A    | 0.9 |
| 7 | <input type="checkbox"/> | 10000.000 | 9975.617   | 85245251.51 | 5.0433 | A    | 2.5 |
| 8 | <input type="checkbox"/> |           |            | 22352.77    | 0.0014 | P    | 6.2 |

$$y = 5.0556\text{E-}004 * x + 2.4729\text{E-}005$$

$$R = 1.0000$$

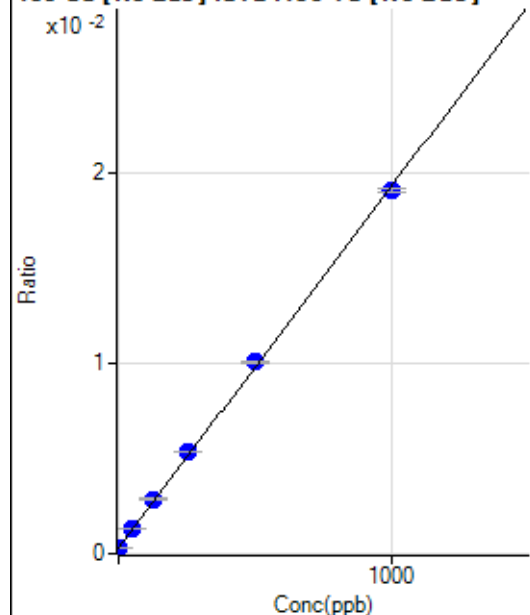
$$DL = 0.009904$$

$$BEC = 0.04891$$

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      | 4055.04   | 0.0003 | P    | 2.4 |
| 2 | <input type="checkbox"/> | 1.000    | 1.200      | 4402.94   | 0.0003 | P    | 0.8 |
| 3 | <input type="checkbox"/> | 50.000   | 53.834     | 17835.47  | 0.0013 | P    | 1.1 |
| 4 | <input type="checkbox"/> | 125.000  | 134.469    | 39287.37  | 0.0029 | P    | 2.4 |
| 5 | <input type="checkbox"/> | 250.000  | 266.374    | 72243.99  | 0.0054 | P    | 0.9 |
| 6 | <input type="checkbox"/> | 500.000  | 514.434    | 134887.45 | 0.0101 | P    | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 987.314    | 251659.08 | 0.0191 | P    | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 3786.08   | 0.0003 | P    | 1.5 |

$$y = 1.9028\text{E-}005 * x + 3.0377\text{E-}004$$

$$R = 0.9997$$

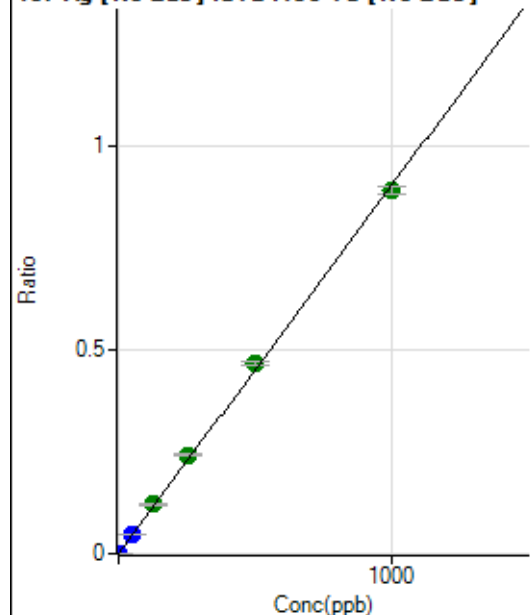
$$DL = 1.127$$

$$BEC = 15.96$$

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      | 54.44       | 0.0000 | P    | 22.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.952      | 11654.77    | 0.0009 | P    | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 54.447     | 660890.54   | 0.0492 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 125.000  | 133.717    | 1658889.45  | 0.1209 | A    | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 268.769    | 3266549.81  | 0.2429 | A    | 0.3  |
| 6 | <input type="checkbox"/> | 500.000  | 516.588    | 6239933.24  | 0.4669 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 985.702    | 11743118.16 | 0.8909 | A    | 2.0  |
| 8 | <input type="checkbox"/> |          |            | 2206.86     | 0.0002 | P    | 14.9 |

$$y = 9.0380\text{E-}004 * x + 4.0839\text{E-}006$$

$$R = 0.9996$$

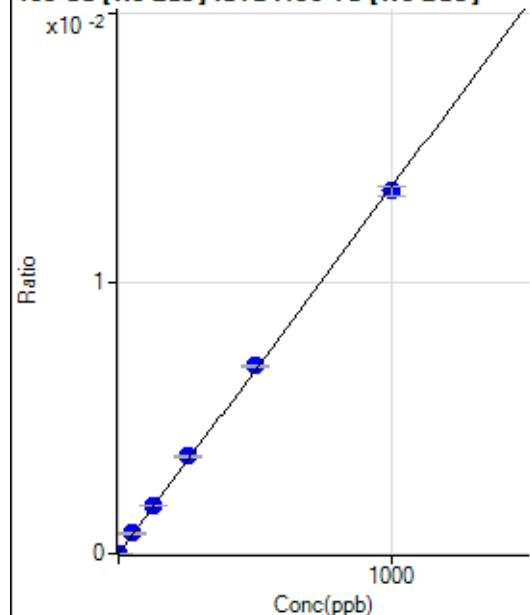
$$DL = 0.003077$$

$$BEC = 0.004519$$

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      | 10.00     | 0.0000 | P    | 2.1  |
| 2 | <input type="checkbox"/> | 1.000    | 0.990      | 191.11    | 0.0000 | P    | 10.3 |
| 3 | <input type="checkbox"/> | 50.000   | 55.013     | 10037.99  | 0.0007 | P    | 2.4  |
| 4 | <input type="checkbox"/> | 125.000  | 132.991    | 24787.94  | 0.0018 | P    | 0.8  |
| 5 | <input type="checkbox"/> | 250.000  | 265.121    | 48397.07  | 0.0036 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 511.956    | 92883.71  | 0.0069 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 988.992    | 176939.96 | 0.0134 | P    | 2.6  |
| 8 | <input type="checkbox"/> |          |            | 84.45     | 0.0000 | P    | 23.7 |

$$y = 1.3573\text{E-}005 * x + 7.4918\text{E-}007$$

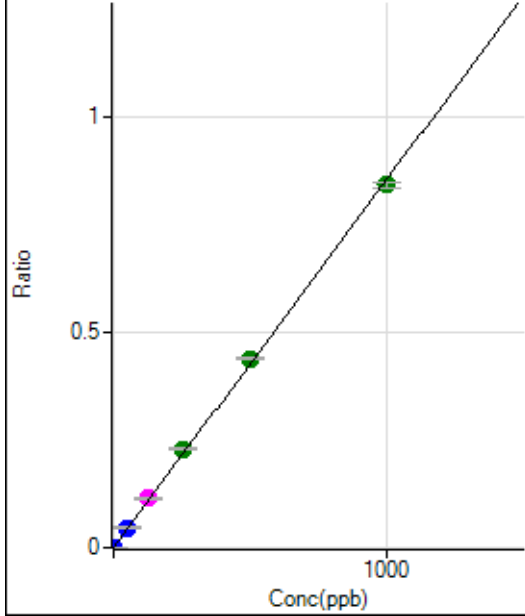
$$R = 0.9998$$

$$DL = 0.003474$$

$$BEC = 0.0552$$

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      | 25.56       | 0.0000 | P   | 31.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.978      | 11295.58    | 0.0008 | P   | 0.4  |
| 3 | <input type="checkbox"/> | 50.000   | 54.709     | 627934.83   | 0.0468 | P   | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 133.657    | 1567989.47  | 0.1142 | M   | 1.1  |
| 5 | <input type="checkbox"/> | 250.000  | 269.266    | 3094642.31  | 0.2301 | A   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 514.813    | 5880687.06  | 0.4400 | A   | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 986.460    | 11113588.45 | 0.8431 | A   | 1.5  |
| 8 | <input type="checkbox"/> |          |            | 2122.40     | 0.0002 | P   | 14.9 |

$$y = 8.5466\text{E-}004 * x + 1.9222\text{E-}006$$

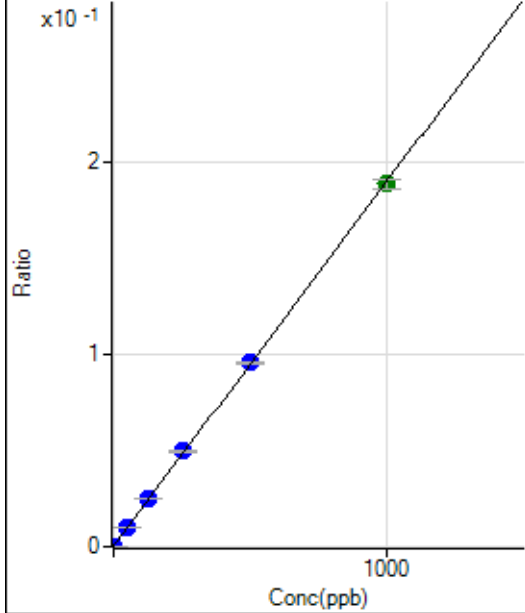
$$R = 0.9996$$

$$DL = 0.002134$$

$$BEC = 0.002249$$

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      | 2847.09    | 0.0002 | P   | 2.5 |
| 2 | <input type="checkbox"/> | 1.000    | 1.024      | 5487.41    | 0.0004 | P   | 2.1 |
| 3 | <input type="checkbox"/> | 50.000   | 53.883     | 139733.12  | 0.0104 | P   | 0.7 |
| 4 | <input type="checkbox"/> | 125.000  | 131.071    | 343215.52  | 0.0250 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 250.000  | 261.724    | 668521.66  | 0.0497 | P   | 1.4 |
| 6 | <input type="checkbox"/> | 500.000  | 503.304    | 1275194.16 | 0.0954 | P   | 1.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 994.464    | 2482166.60 | 0.1883 | A   | 2.4 |
| 8 | <input type="checkbox"/> |          |            | 3105.60    | 0.0002 | P   | 2.8 |

$$y = 1.8915\text{E-}004 * x + 2.1329\text{E-}004$$

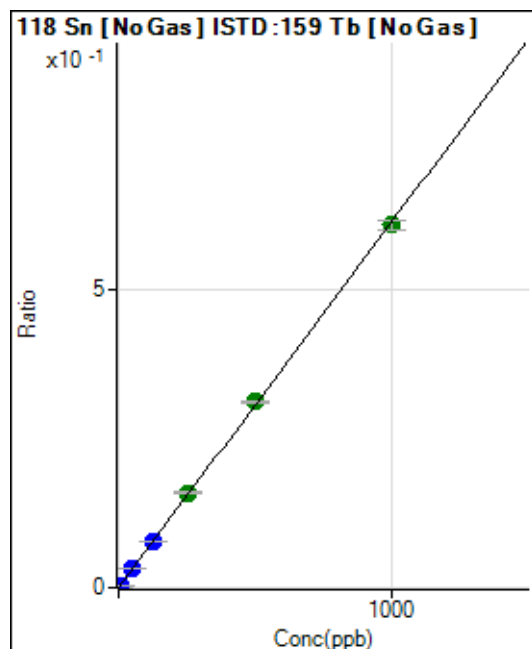
$$R = 0.9999$$

$$DL = 0.08305$$

$$BEC = 1.128$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 3209.28    | 0.0002 | P    | 1.0 |
| 2 | <input type="checkbox"/> | 5.000    | 4.771      | 42722.05   | 0.0032 | P    | 0.4 |
| 3 | <input type="checkbox"/> | 50.000   | 51.903     | 431095.68  | 0.0321 | P    | 0.6 |
| 4 | <input type="checkbox"/> | 125.000  | 127.387    | 1076590.69 | 0.0784 | P    | 1.7 |
| 5 | <input type="checkbox"/> | 250.000  | 258.774    | 2139518.10 | 0.1591 | A    | 1.3 |
| 6 | <input type="checkbox"/> | 500.000  | 509.390    | 4182386.01 | 0.3129 | A    | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 992.719    | 8035233.77 | 0.6096 | A    | 2.5 |
| 8 | <input type="checkbox"/> |          |            | 8286.45    | 0.0007 | P    | 5.6 |

$$y = 6.1385E-004 * x + 2.4037E-004$$

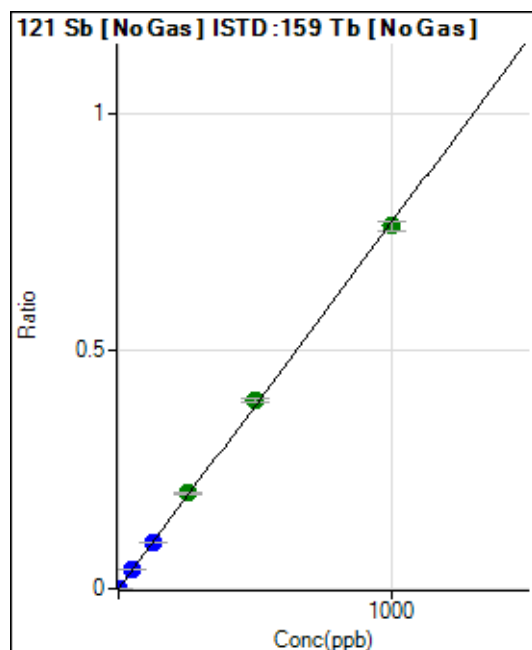
$$R = 0.9999$$

$$DL = 0.01164$$

$$BEC = 0.3916$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 42.22       | 0.0000 | P    | 44.3 |
| 2 | <input type="checkbox"/> | 2.000    | 1.843      | 19162.84    | 0.0014 | P    | 0.2  |
| 3 | <input type="checkbox"/> | 50.000   | 51.491     | 532155.67   | 0.0396 | P    | 0.7  |
| 4 | <input type="checkbox"/> | 125.000  | 126.617    | 1337419.42  | 0.0974 | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 260.380    | 2694498.50  | 0.2004 | A    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 512.780    | 5273744.40  | 0.3946 | A    | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.739    | 10049092.98 | 0.7624 | A    | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 7478.68     | 0.0006 | P    | 5.9  |

$$y = 7.6953E-004 * x + 3.1761E-006$$

$$R = 0.9998$$

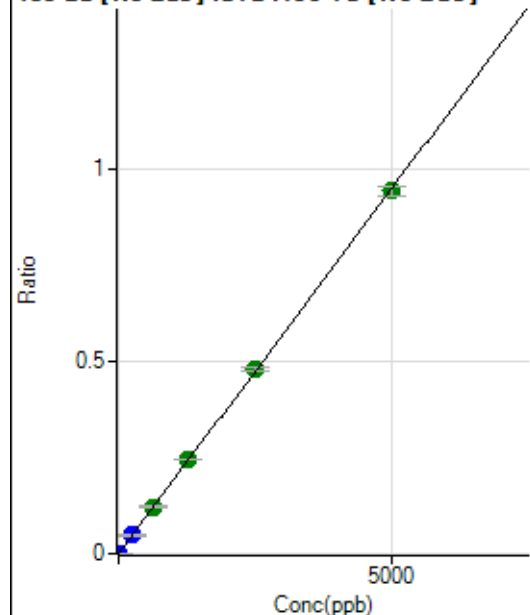
$$DL = 0.005487$$

$$BEC = 0.004127$$

Weight: <None>

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      | 45.56       | 0.0000 | P    | 29.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.324      | 23923.46    | 0.0018 | P    | 2.1  |
| 3 | <input type="checkbox"/> | 250.000  | 250.809    | 639972.11   | 0.0477 | P    | 0.8  |
| 4 | <input type="checkbox"/> | 625.000  | 645.585    | 1683697.89  | 0.1227 | A    | 1.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1282.657   | 3276904.60  | 0.2437 | A    | 0.6  |
| 6 | <input type="checkbox"/> | 2500.000 | 2532.592   | 6430711.78  | 0.4812 | A    | 2.2  |
| 7 | <input type="checkbox"/> | 5000.000 | 4972.928   | 12453315.93 | 0.9448 | A    | 2.4  |
| 8 | <input type="checkbox"/> |          |            | 5703.41     | 0.0004 | P    | 4.7  |

$$y = 1.8999\text{E-}004 * x + 3.4242\text{E-}006$$

$$R = 0.9999$$

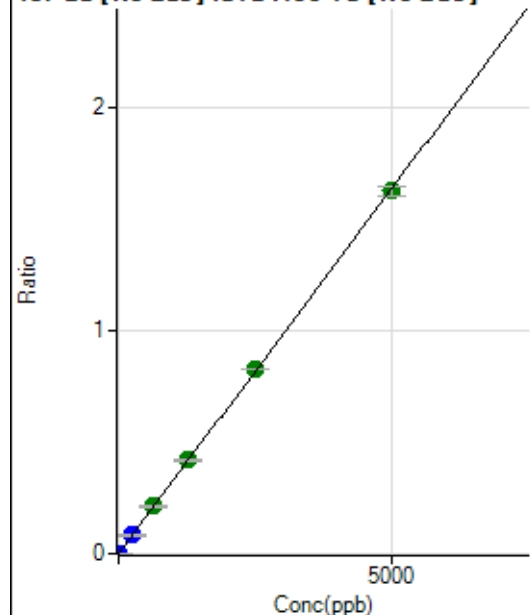
$$DL = 0.01599$$

$$BEC = 0.01802$$

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      | 84.44       | 0.0000 | P    | 11.3 |
| 2 | <input type="checkbox"/> | 10.000   | 9.187      | 40637.86    | 0.0030 | P    | 1.0  |
| 3 | <input type="checkbox"/> | 250.000  | 250.757    | 1102779.83  | 0.0821 | P    | 0.3  |
| 4 | <input type="checkbox"/> | 625.000  | 646.619    | 2906439.33  | 0.2117 | A    | 0.4  |
| 5 | <input type="checkbox"/> | 1250.000 | 1278.667   | 5630237.76  | 0.4187 | A    | 0.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2532.143   | 11082318.17 | 0.8292 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 5000.000 | 4974.023   | 21467378.29 | 1.6287 | A    | 2.7  |
| 8 | <input type="checkbox"/> |          |            | 9880.18     | 0.0008 | P    | 4.6  |

$$y = 3.2745\text{E-}004 * x + 6.3246\text{E-}006$$

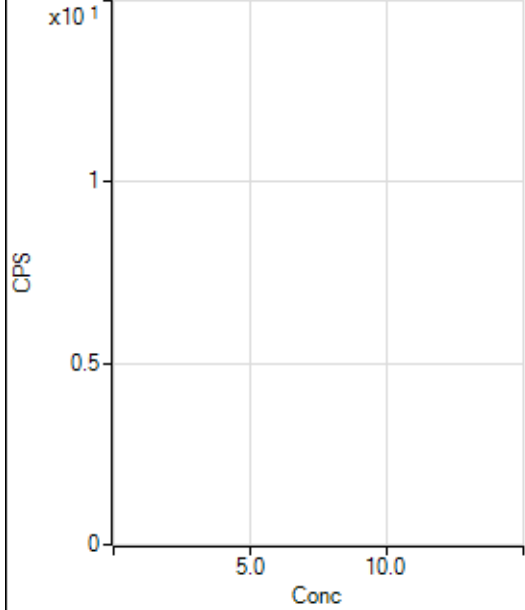
$$R = 0.9999$$

$$DL = 0.006535$$

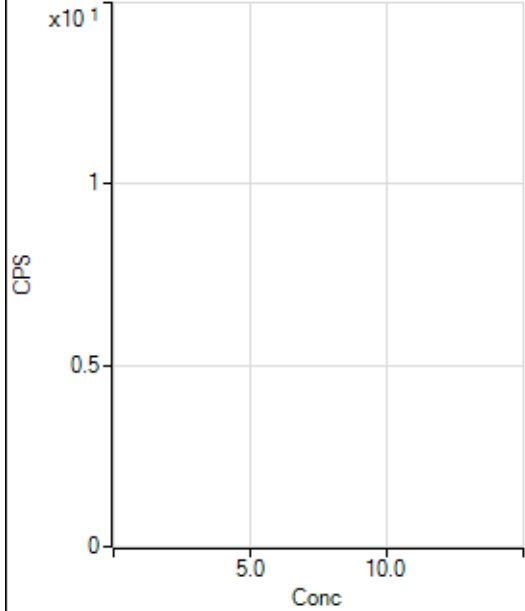
$$BEC = 0.01931$$

Weight: &lt;None&gt;

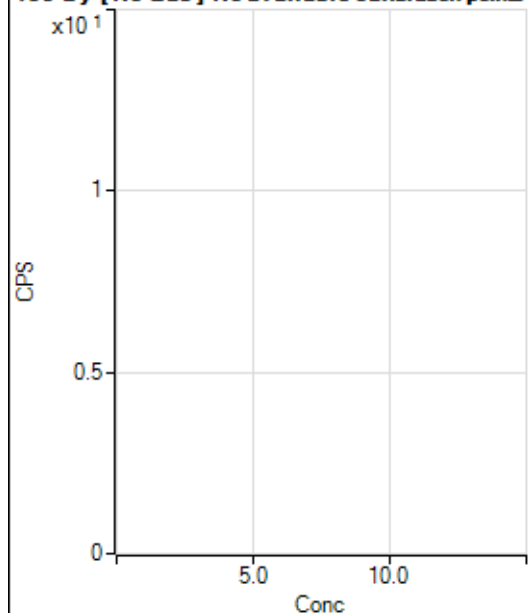
Min Conc: 0

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

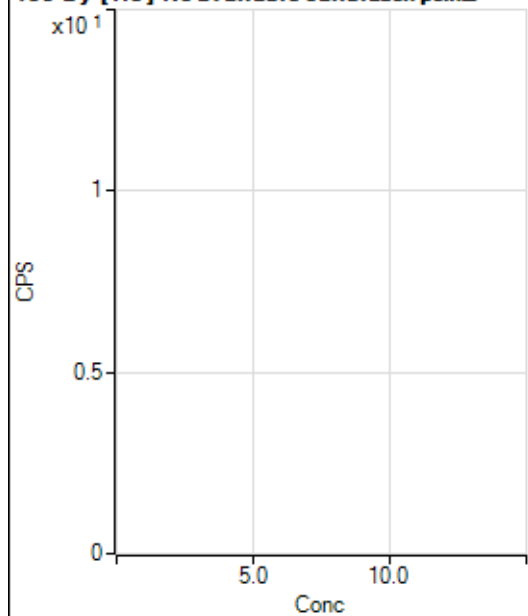
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 14.44   |       | P        | 35.3 |
| 2 | <input type="checkbox"/> |       |            | 7.78    |       | P        | 65.5 |
| 3 | <input type="checkbox"/> |       |            | 86.67   |       | P        | 13.9 |
| 4 | <input type="checkbox"/> |       |            | 173.34  |       | P        | 23.1 |
| 5 | <input type="checkbox"/> |       |            | 315.56  |       | P        | 3.2  |
| 6 | <input type="checkbox"/> |       |            | 583.35  |       | P        | 4.0  |
| 7 | <input type="checkbox"/> |       |            | 1043.38 |       | P        | 8.8  |
| 8 | <input type="checkbox"/> |       |            | 195.56  |       | P        | 21.3 |

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

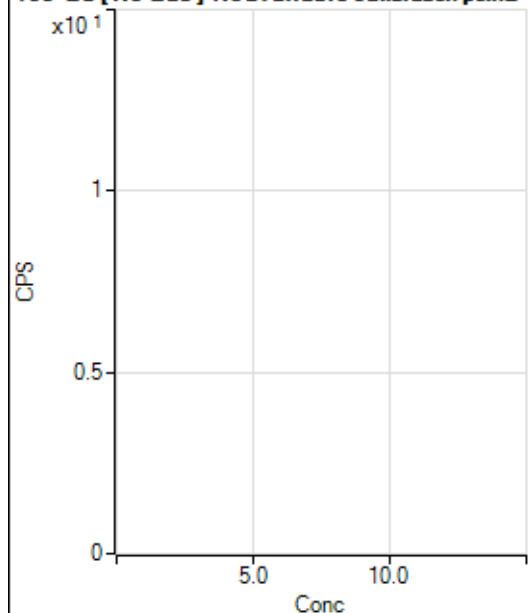
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1.11   |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 6.67   |       | P        | 50.0 |
| 3 | <input type="checkbox"/> |       |            | 32.22  |       | P        | 15.8 |
| 4 | <input type="checkbox"/> |       |            | 87.78  |       | P        | 19.5 |
| 5 | <input type="checkbox"/> |       |            | 131.11 |       | P        | 8.9  |
| 6 | <input type="checkbox"/> |       |            | 280.01 |       | P        | 6.0  |
| 7 | <input type="checkbox"/> |       |            | 416.68 |       | P        | 9.2  |
| 8 | <input type="checkbox"/> |       |            | 84.44  |       | P        | 9.9  |

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

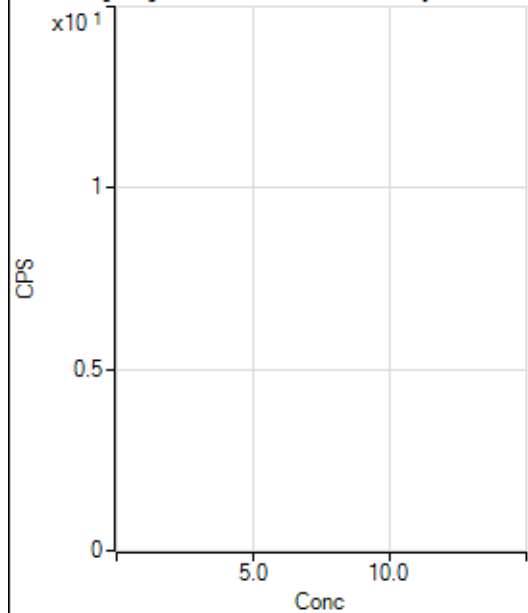
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 57.7 |
| 2 | <input type="checkbox"/> |       |            | 14.44  |       | P        | 87.4 |
| 3 | <input type="checkbox"/> |       |            | 53.33  |       | P        | 27.2 |
| 4 | <input type="checkbox"/> |       |            | 110.00 |       | P        | 21.2 |
| 5 | <input type="checkbox"/> |       |            | 178.89 |       | P        | 14.1 |
| 6 | <input type="checkbox"/> |       |            | 312.23 |       | P        | 12.3 |
| 7 | <input type="checkbox"/> |       |            | 556.69 |       | P        | 4.3  |
| 8 | <input type="checkbox"/> |       |            | 335.56 |       | P        | 2.9  |

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

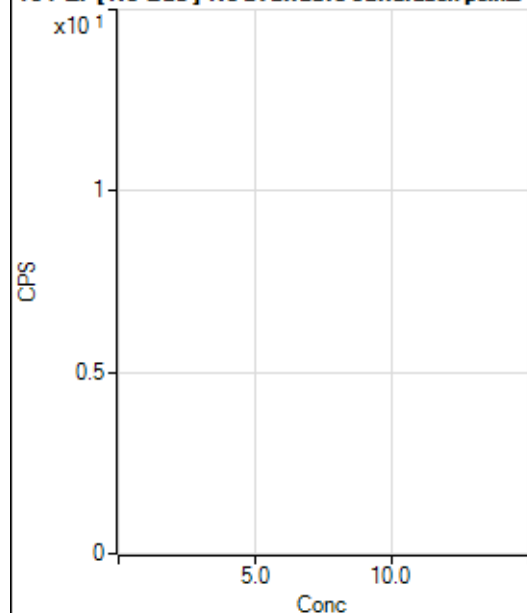
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 5.55   |       | P        | 69.3 |
| 2 | <input type="checkbox"/> |       |            | 13.33  |       | P        | 25.0 |
| 3 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 47.5 |
| 4 | <input type="checkbox"/> |       |            | 154.45 |       | P        | 43.7 |
| 5 | <input type="checkbox"/> |       |            | 237.78 |       | P        | 4.3  |
| 6 | <input type="checkbox"/> |       |            | 397.79 |       | P        | 12.8 |
| 7 | <input type="checkbox"/> |       |            | 828.92 |       | P        | 5.8  |
| 8 | <input type="checkbox"/> |       |            | 261.12 |       | P        | 6.0  |

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

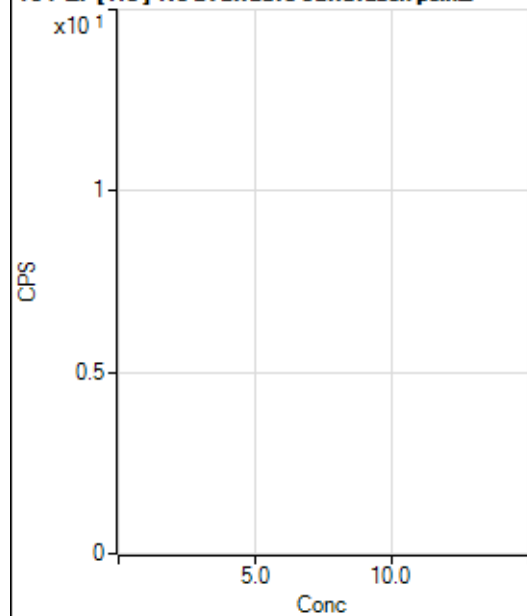
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 22.7 |
| 2 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 25.5 |
| 3 | <input type="checkbox"/> |       |            | 83.33  |       | P        | 20.0 |
| 4 | <input type="checkbox"/> |       |            | 153.34 |       | P        | 25.1 |
| 5 | <input type="checkbox"/> |       |            | 191.12 |       | P        | 5.6  |
| 6 | <input type="checkbox"/> |       |            | 361.12 |       | P        | 10.1 |
| 7 | <input type="checkbox"/> |       |            | 494.46 |       | P        | 8.0  |
| 8 | <input type="checkbox"/> |       |            | 326.67 |       | P        | 1.8  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 398.90 |       | P        | 7.8  |
| 2 | <input type="checkbox"/> |       |            | 385.57 |       | P        | 3.6  |
| 3 | <input type="checkbox"/> |       |            | 374.46 |       | P        | 14.0 |
| 4 | <input type="checkbox"/> |       |            | 414.45 |       | P        | 7.5  |
| 5 | <input type="checkbox"/> |       |            | 457.79 |       | P        | 9.2  |
| 6 | <input type="checkbox"/> |       |            | 493.35 |       | P        | 7.8  |
| 7 | <input type="checkbox"/> |       |            | 618.91 |       | P        | 8.4  |
| 8 | <input type="checkbox"/> |       |            | 574.46 |       | P        | 7.5  |

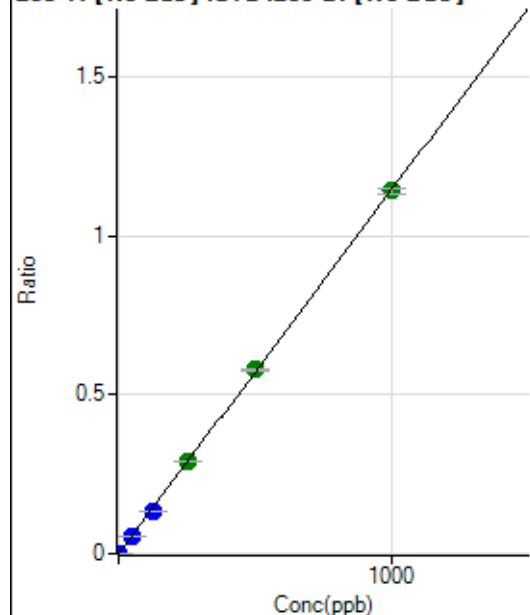
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 127.78 |       | P        | 34.0 |
| 2 | <input type="checkbox"/> |       |            | 144.45 |       | P        | 13.9 |
| 3 | <input type="checkbox"/> |       |            | 156.67 |       | P        | 5.6  |
| 4 | <input type="checkbox"/> |       |            | 211.11 |       | P        | 13.1 |
| 5 | <input type="checkbox"/> |       |            | 263.34 |       | P        | 2.5  |
| 6 | <input type="checkbox"/> |       |            | 365.56 |       | P        | 9.2  |
| 7 | <input type="checkbox"/> |       |            | 548.90 |       | P        | 8.5  |
| 8 | <input type="checkbox"/> |       |            | 425.57 |       | P        | 11.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 64.45  |       | P        | 10.8 |
| 2 | <input type="checkbox"/> |       |            | 83.33  |       | P        | 14.4 |
| 3 | <input type="checkbox"/> |       |            | 76.66  |       | P        | 15.1 |
| 4 | <input type="checkbox"/> |       |            | 97.78  |       | P        | 10.4 |
| 5 | <input type="checkbox"/> |       |            | 148.89 |       | P        | 24.6 |
| 6 | <input type="checkbox"/> |       |            | 212.23 |       | P        | 18.1 |
| 7 | <input type="checkbox"/> |       |            | 321.12 |       | P        | 16.6 |
| 8 | <input type="checkbox"/> |       |            | 241.12 |       | P        | 22.1 |

203 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      | 38.89      | 0.0000 | P    | 11.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.826      | 6992.97    | 0.0010 | P    | 0.6  |
| 3 | <input type="checkbox"/> | 50.000   | 45.769     | 387137.63  | 0.0524 | P    | 1.2  |
| 4 | <input type="checkbox"/> | 125.000  | 114.950    | 993472.71  | 0.1317 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 250.000  | 254.856    | 2155979.95 | 0.2919 | A    | 0.6  |
| 6 | <input type="checkbox"/> | 500.000  | 505.415    | 4262766.46 | 0.5788 | A    | 1.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.547    | 8304135.85 | 1.1424 | A    | 1.4  |
| 8 | <input type="checkbox"/> |          |            | 1358.97    | 0.0002 | P    | 18.2 |

$$y = 0.0011 * x + 5.3321E-006$$

$$R = 0.9999$$

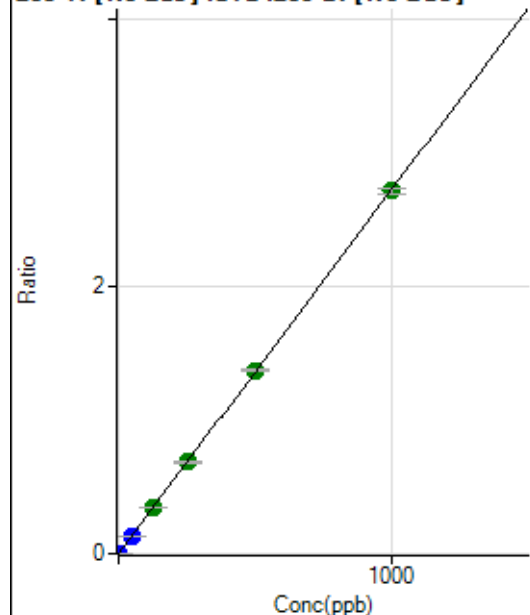
$$DL = 0.001605$$

$$BEC = 0.004656$$

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      | 76.67       | 0.0000 | P    | 10.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.824      | 16559.05    | 0.0023 | P    | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 45.937     | 923433.69   | 0.1250 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 125.000  | 126.400    | 2596350.28  | 0.3440 | A    | 1.3  |
| 5 | <input type="checkbox"/> | 250.000  | 251.831    | 5062553.29  | 0.6855 | A    | 1.8  |
| 6 | <input type="checkbox"/> | 500.000  | 504.594    | 10114489.43 | 1.3734 | A    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 997.274    | 19730305.95 | 2.7144 | A    | 1.7  |
| 8 | <input type="checkbox"/> |          |            | 3204.86     | 0.0005 | P    | 13.0 |

$$y = 0.0027 * x + 1.0493E-005$$

$$R = 1.0000$$

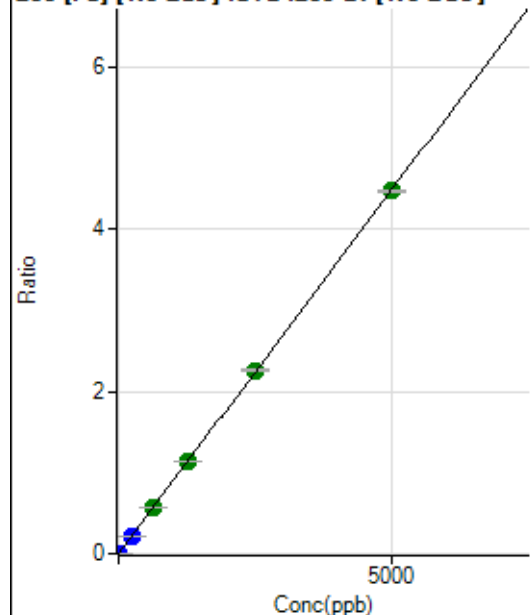
$$DL = 0.001226$$

$$BEC = 0.003855$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 647.80      | 0.0001 | P    | 10.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.861      | 6311.52     | 0.0009 | P    | 4.0  |
| 3 | <input type="checkbox"/> | 250.000  | 231.644    | 1531975.72  | 0.2074 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 625.000  | 635.059    | 4290475.18  | 0.5686 | A    | 1.8  |
| 5 | <input type="checkbox"/> | 1250.000 | 1262.792   | 8350189.67  | 1.1305 | A    | 1.0  |
| 6 | <input type="checkbox"/> | 2500.000 | 2513.473   | 16570491.56 | 2.2500 | A    | 1.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 4989.726   | 32466957.85 | 4.4667 | A    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 10602.01    | 0.0016 | P    | 7.7  |

$$y = 8.9516\text{E-}004 * x + 8.8626\text{E-}005$$

$$R = 1.0000$$

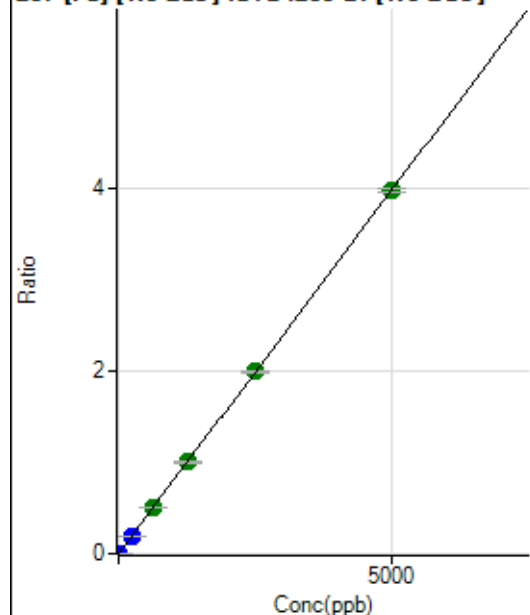
$$DL = 0.03065$$

$$BEC = 0.09901$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 594.46      | 0.0001 | P    | 7.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.813      | 5347.77     | 0.0007 | P    | 0.8 |
| 3 | <input type="checkbox"/> | 250.000  | 229.875    | 1350014.82  | 0.1828 | P    | 1.2 |
| 4 | <input type="checkbox"/> | 625.000  | 632.203    | 3792601.54  | 0.5026 | A    | 2.1 |
| 5 | <input type="checkbox"/> | 1250.000 | 1259.813   | 7396954.68  | 1.0014 | A    | 0.8 |
| 6 | <input type="checkbox"/> | 2500.000 | 2507.097   | 14676341.59 | 1.9929 | A    | 1.3 |
| 7 | <input type="checkbox"/> | 5000.000 | 4994.104   | 28854162.07 | 3.9697 | A    | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 9398.91     | 0.0014 | P    | 3.9 |

$$y = 7.9486\text{E-}004 * x + 8.1467\text{E-}005$$

$$R = 1.0000$$

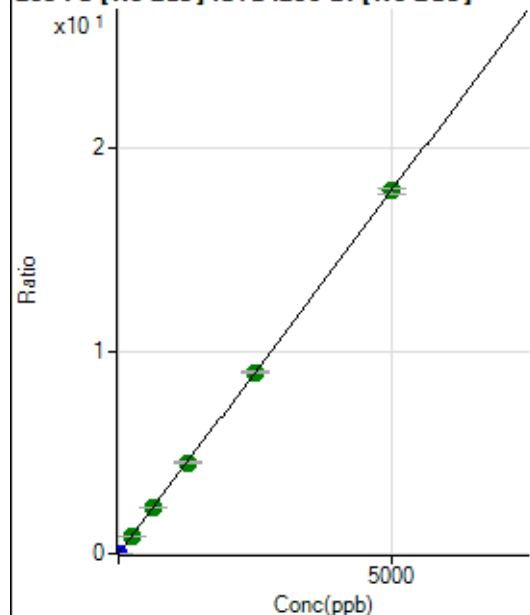
$$DL = 0.0225$$

$$BEC = 0.1025$$

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      | 2904.61     | 0.0004  | P    | 4.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.848      | 25260.64    | 0.0034  | P    | 2.6 |
| 3 | <input type="checkbox"/> | 250.000  | 243.131    | 6442339.45  | 0.8723  | A    | 1.3 |
| 4 | <input type="checkbox"/> | 625.000  | 631.118    | 17083450.33 | 2.2638  | A    | 1.7 |
| 5 | <input type="checkbox"/> | 1250.000 | 1257.326   | 33308665.62 | 4.5096  | A    | 1.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2499.865   | 66028409.29 | 8.9658  | A    | 1.2 |
| 7 | <input type="checkbox"/> | 5000.000 | 4997.815   | 130286341.1 | 17.9243 | A    | 1.2 |
| 8 | <input type="checkbox"/> |          |            | 43118.60    | 0.0066  | P    | 5.0 |

$$y = 0.0036 * x + 3.9769E-004$$

$$R = 1.0000$$

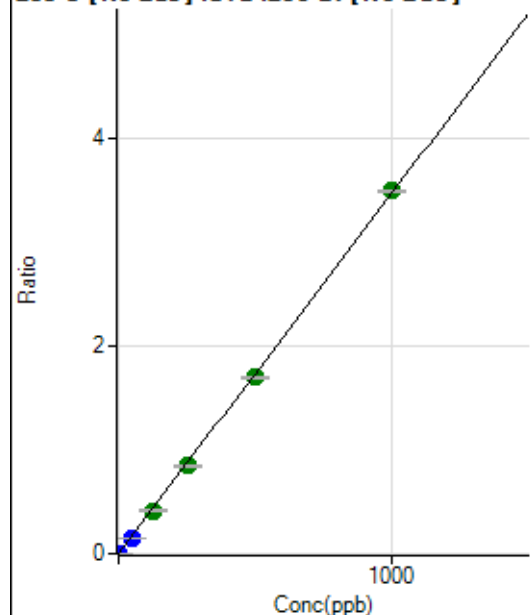
$$DL = 0.01368$$

$$BEC = 0.1109$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 13.33       | 0.0000 | P    | 24.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.769      | 19610.06    | 0.0027 | P    | 3.4  |
| 3 | <input type="checkbox"/> | 50.000   | 42.816     | 1096765.01  | 0.1485 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 119.930    | 3139071.45  | 0.4160 | A    | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 243.046    | 6226553.38  | 0.8430 | A    | 1.5  |
| 6 | <input type="checkbox"/> | 500.000  | 489.967    | 12515585.79 | 1.6995 | A    | 1.7  |
| 7 | <input type="checkbox"/> | 1000.000 | 1007.748   | 25407072.40 | 3.4955 | A    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 3113.90     | 0.0005 | P    | 9.0  |

$$y = 0.0035 * x + 1.8261E-006$$

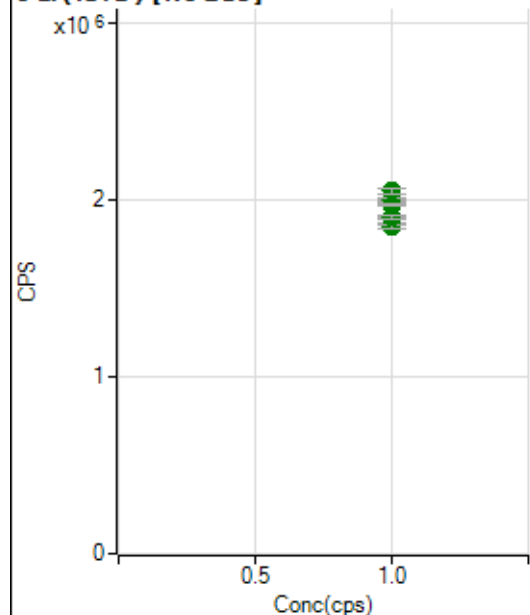
$$R = 0.9999$$

$$DL = 0.0003914$$

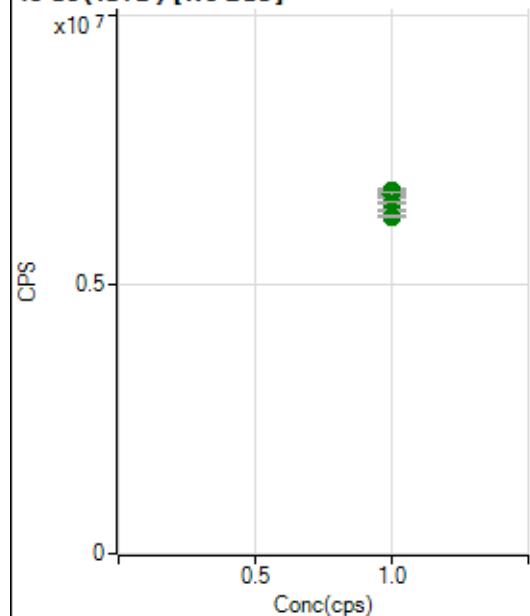
$$BEC = 0.0005265$$

Weight: &lt;None&gt;

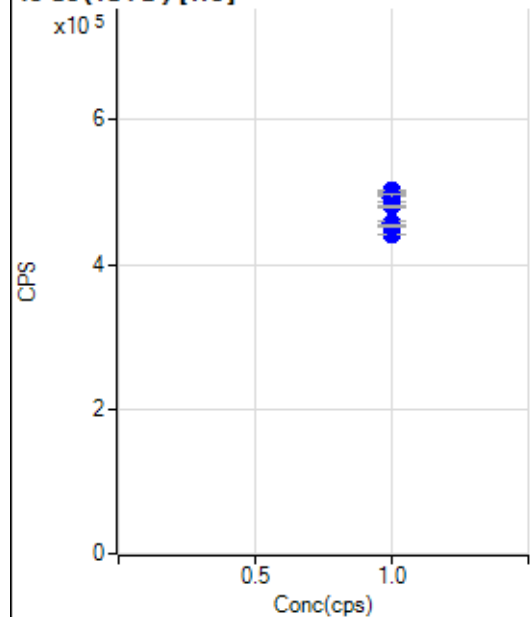
Min Conc: 0

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

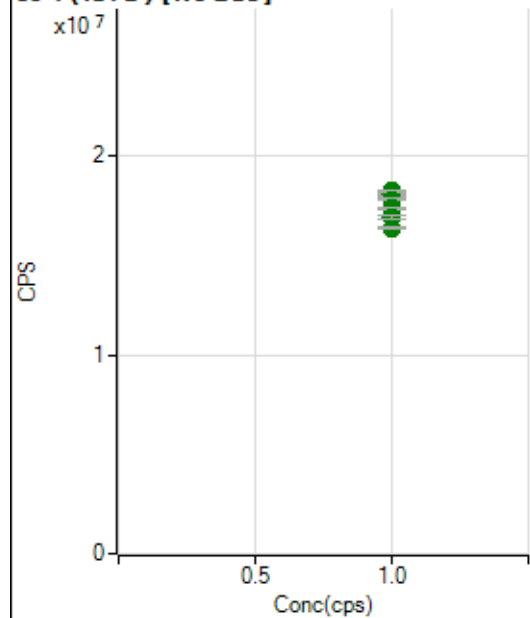
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1886188.96 |       | A        | 2.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1849907.79 |       | A        | 1.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1905131.33 |       | A        | 1.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1989336.20 |       | A        | 2.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1997139.55 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1995768.18 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2050845.24 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1972650.92 |       | A        | 1.0 |

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

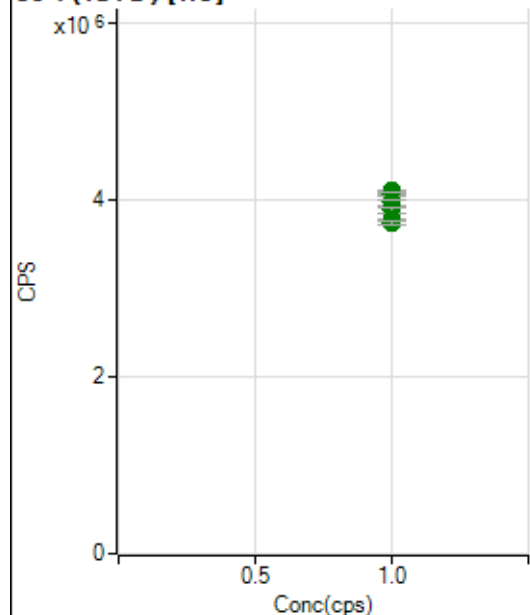
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6738767.26 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6691138.37 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6699266.43 |       | A        | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6716896.15 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6662152.68 |       | A        | 1.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6510241.08 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6369017.27 |       | A        | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6263300.25 |       | A        | 0.4 |

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

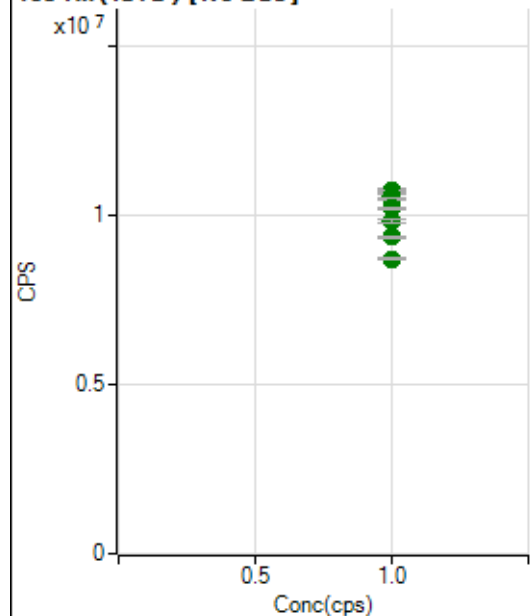
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS       | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-----------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 501919.99 |       | P    | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 500707.03 |       | P    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 495483.77 |       | P    | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 492431.02 |       | P    | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 480377.40 |       | P    | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 456855.37 |       | P    | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 442582.63 |       | P    | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 452696.65 |       | P    | 0.5 |

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

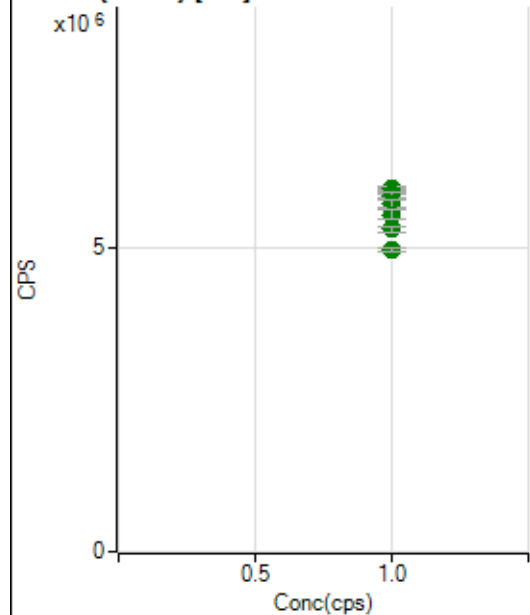
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 18157504.31 |       | A    | 1.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 18085009.45 |       | A    | 0.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 18073799.04 |       | A    | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 18256337.51 |       | A    | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 17845695.85 |       | A    | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 17392522.10 |       | A    | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 16905037.67 |       | A    | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 16401501.70 |       | A    | 0.9 |

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

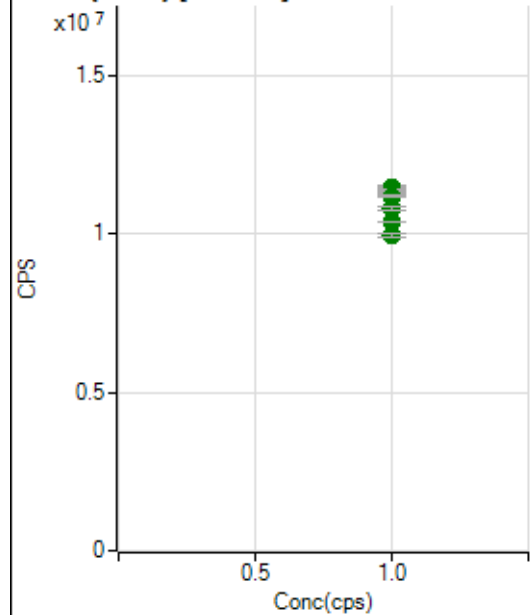
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4102621.01 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4084857.34 |       | A        | 1.1 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4081999.00 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4063164.77 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3971444.28 |       | A        | 1.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3882277.75 |       | A        | 1.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3778178.59 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3735902.06 |       | A        | 1.4 |

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

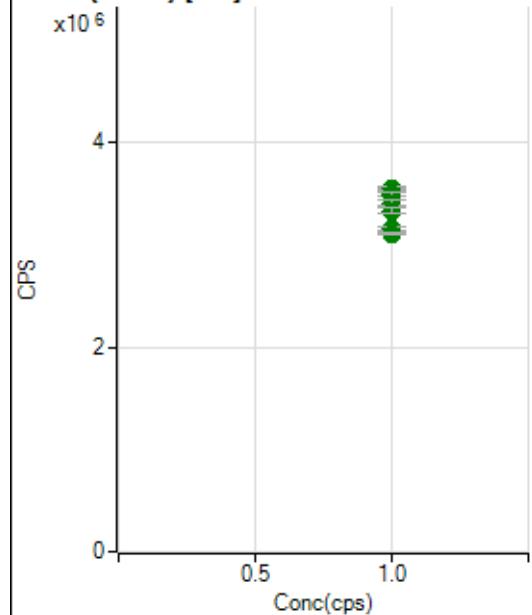
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10735697.76 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 10703397.27 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 10555966.65 |       | A        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10513414.08 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10222559.01 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9858745.89  |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9364374.58  |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8726175.15  |       | A        | 1.0 |

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

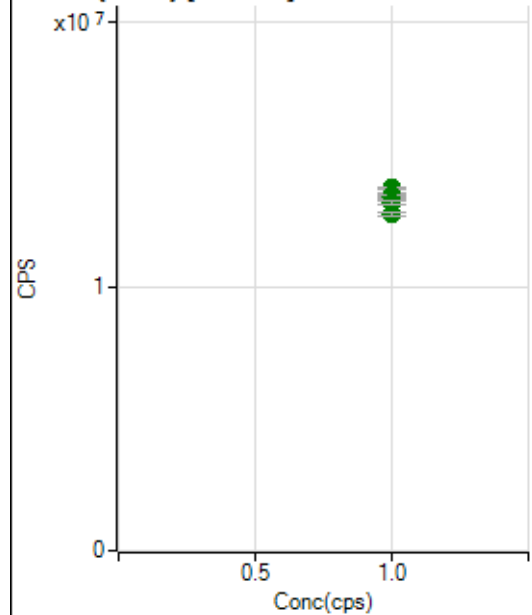
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5974206.92 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 5980230.74 |       | A        | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 5897669.77 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5870369.77 |       | A        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5733664.99 |       | A        | 2.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5558998.67 |       | A        | 2.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5309859.64 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4983569.44 |       | A        | 1.1 |

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

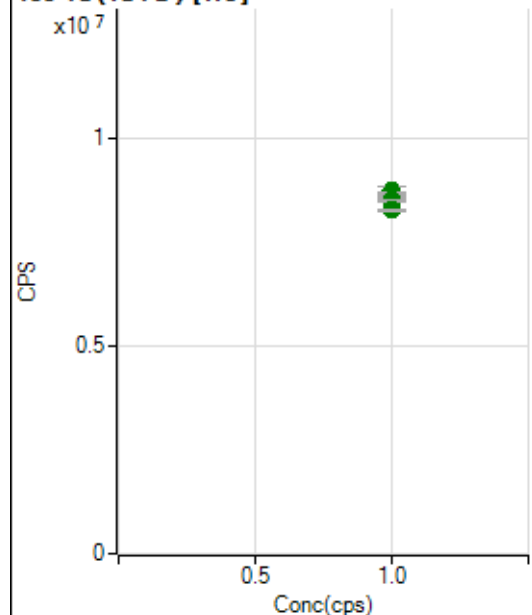
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11450274.09 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11442862.96 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11303645.01 |       | A        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 11383105.71 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11191416.34 |       | A        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10814623.11 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10395338.85 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9955695.88  |       | A        | 1.3 |

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

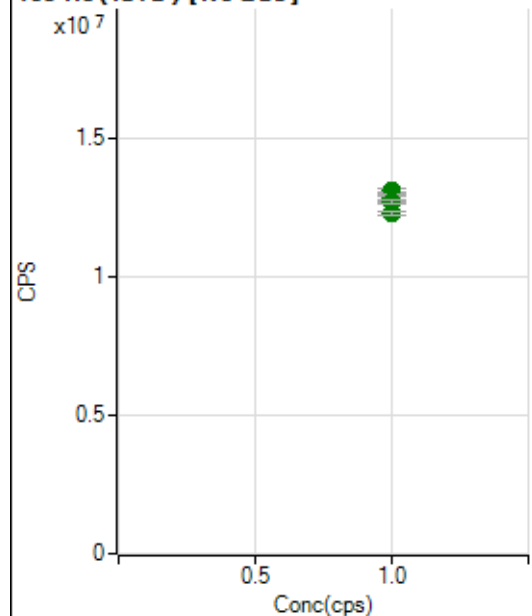
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3539189.86 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3543304.39 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3494309.78 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3480755.75 |       | A        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3408219.52 |       | A        | 1.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3329147.39 |       | A        | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3162083.67 |       | A        | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3106920.49 |       | A        | 0.9 |

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

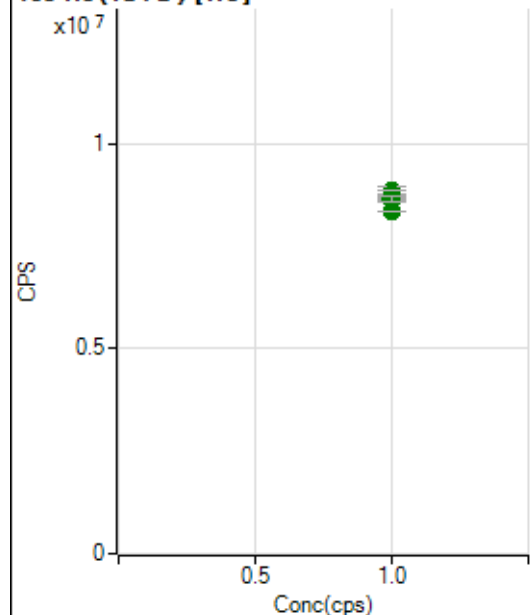
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13351917.72 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 13480158.27 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 13429566.74 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13726581.46 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13447279.80 |       | A        | 1.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13366025.36 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13183725.91 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12723833.28 |       | A        | 1.1 |

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

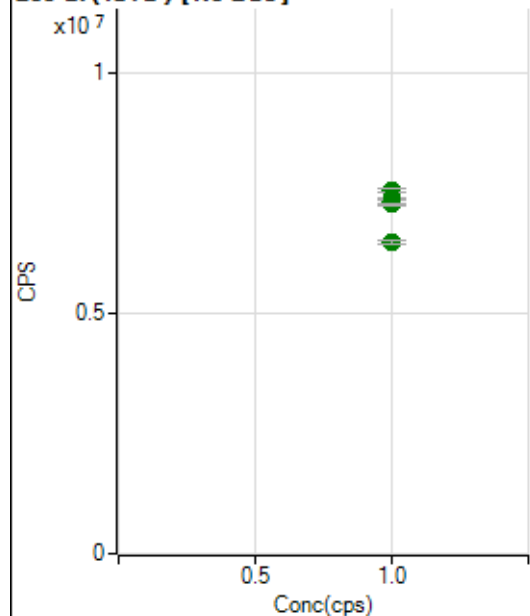
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8509848.97 |       | A        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8514393.07 |       | A        | 0.6 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8582009.04 |       | A        | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8740799.80 |       | A        | 2.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8705098.48 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8513986.19 |       | A        | 1.0 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8514130.08 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8278741.54 |       | A        | 0.4 |

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

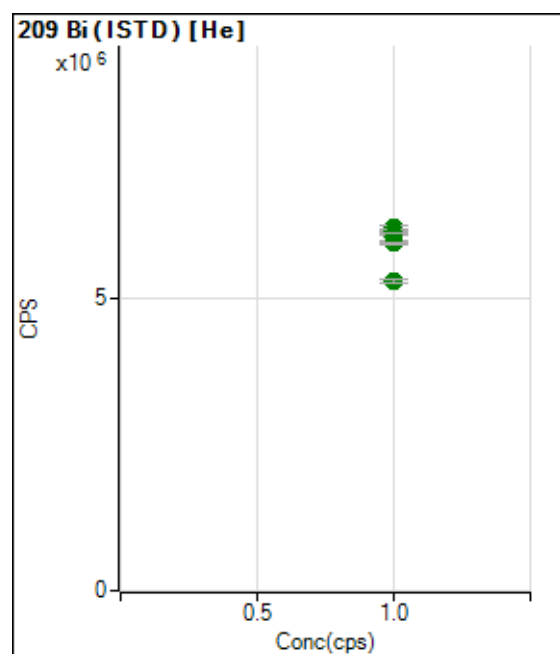
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12824385.36 |       | A        | 1.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 12715789.53 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 12931519.53 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13083858.14 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13027082.03 |       | A        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 12911394.95 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 12688599.39 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 12270001.49 |       | A        | 1.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8623452.79 |       | A        | 1.3 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8689366.47 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8728146.95 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8844990.36 |       | A        | 2.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8746561.81 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8728947.58 |       | A        | 2.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8648787.65 |       | A        | 1.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8349454.04 |       | A        | 0.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 7302014.96 |       | A        | 1.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 7347738.85 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 7385332.32 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7547173.36 |       | A        | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7386553.29 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7364423.22 |       | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7268625.65 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6491006.01 |       | A        | 1.3 |



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6089820.05 |       | A        | 0.9 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6186346.09 |       | A        | 1.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6192222.06 |       | A        | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6122598.87 |       | A        | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6078477.48 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6029513.73 |       | A        | 2.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5925967.13 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5276778.53 |       | A        | 1.5 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7081724 MS.b

Acq. Date-Time 2024-08-17 12:24:26

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 8200   | 81998.74   |                            |             | 0.880  | 5.000           |
| 24   |              | 118835 | 1188351.84 |                            |             | 0.894  | 5.000           |
| 25   |              | 16278  | 162777.33  |                            |             | 0.534  | 5.000           |
| 26   |              | 20290  | 202896.80  |                            |             | 0.564  | 5.000           |
| 59   |              | 88224  | 882239.56  |                            |             | 0.548  | 5.000           |
| 113  |              | 12380  | 123799.57  |                            |             | 0.979  | 5.000           |
| 115  |              | 147882 | 1478824.32 |                            |             | 0.891  | 5.000           |
| 206  |              | 24694  | 246938.90  |                            |             | 0.243  | 5.000           |
| 207  |              | 22276  | 222755.38  |                            |             | 0.430  | 5.000           |
| 208  |              | 52495  | 524946.07  |                            |             | 0.578  | 5.000           |
| 220  |              | 1      | 9.00       |                            |             | 23.895 |                 |

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

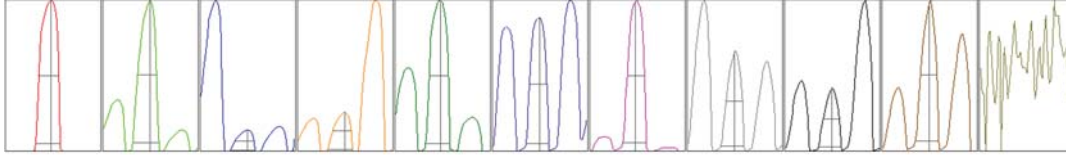
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 8266        | 8237        | 8194        | 8223        | 8079        |
| 24   | 117785      | 117582      | 119394      | 119664      | 119752      |
| 25   | 16198       | 16286       | 16314       | 16400       | 16191       |
| 26   | 20334       | 20383       | 20392       | 20204       | 20135       |
| 59   | 88967       | 88463       | 87937       | 87854       | 87900       |
| 113  | 12472       | 12451       | 12412       | 12395       | 12170       |
| 115  | 147901      | 149734      | 147552      | 148165      | 146060      |
| 206  | 24705       | 24786       | 24683       | 24675       | 24621       |
| 207  | 22283       | 22416       | 22243       | 22286       | 22150       |
| 208  | 52549       | 52718       | 52445       | 52760       | 52002       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 13562.77    | 8.95   | 8.90 - 9.10     |             |
| 24   | 210595.11   | 24.00  | 23.90 - 24.10   |             |
| 25   | 29007.52    | 25.00  | 24.90 - 25.10   |             |
| 26   | 34275.09    | 26.00  | 25.90 - 26.10   |             |
| 59   | 149707.92   | 58.95  | 58.90 - 59.10   |             |
| 113  | 23234.26    | 113.00 | 112.90 - 113.10 |             |
| 115  | 276368.60   | 114.95 | 114.90 - 115.10 |             |
| 206  | 49213.29    | 206.00 | 205.90 - 206.10 |             |
| 207  | 44507.02    | 207.00 | 206.90 - 207.10 |             |
| 208  | 104780.00   | 208.00 | 207.90 - 208.10 |             |
| 220  |             |        | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.64  | 0.779 | 0.900           |             |
| 24   | 0.60  | 0.825 | 0.900           |             |
| 25   | 0.58  | 0.775 | 0.900           |             |
| 26   | 0.59  | 0.781 | 0.900           |             |
| 59   | 0.62  | 0.771 | 0.900           |             |
| 113  | 0.54  | 0.730 | 0.900           |             |
| 115  | 0.53  | 0.751 | 0.900           |             |
| 206  | 0.51  | 0.734 | 0.900           |             |
| 207  | 0.50  | 0.731 | 0.900           |             |
| 208  | 0.51  | 0.745 | 0.900           |             |
| 220  | 0.76  |       |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

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

# US EPA Tune Check Report

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

## Lens Parameters

|            |          |               |       |            |        |
|------------|----------|---------------|-------|------------|--------|
| Extract 1  | 0.0 V    | Omega Lens    | 6.7 V | Deflect    | 15.6 V |
| Extract 2  | -125.0 V | Cell Entrance | -30 V | Plate Bias | -35 V  |
| Omega Bias | -65 V    | Cell Exit     | -50 V |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 5.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 190 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 137 | Axis Gain   | 0.9979 | QP Bias | -3.0 V |
| Mass Offset | 129 | Axis Offset | 0.08   |         |        |

## Hardware Settings

### Torch

|         |        |         |        |
|---------|--------|---------|--------|
| Torch H | 0.0 mm | Torch V | 0.7 mm |
|---------|--------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.7 mV | Analog HV | 2323 V | Pulse HV | 1462 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 29222 | 292215.49 |                            |             | 0.460 |                 |
| 89   |              | 28105 | 281048.65 |                            |             | 0.414 |                 |
| 205  |              | 27615 | 276152.80 |                            |             | 0.538 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 29385       | 29249       | 29166       | 29281       | 29027       |
| 89   | 28130       | 28203       | 27922       | 28069       | 28200       |
| 205  | 27845       | 27442       | 27595       | 27645       | 27549       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

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

### Lens Parameters

|           |       |            |       |         |       |
|-----------|-------|------------|-------|---------|-------|
| Extract 1 | 0.0 V | Omega Lens | 9.3 V | Deflect | 4.2 V |
|-----------|-------|------------|-------|---------|-------|

# US EPA Tune Check Report

|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -170.0 V | Cell Entrance | -40 V | Plate Bias | -60 V |
| Omega Bias | -80 V    | Cell Exit     | -60 V |            |       |

## Cell Parameters

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

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 137 | Axis Gain   | 0.9979 | QP Bias | -13.0 V |
| Mass Offset | 129 | Axis Offset | 0.08   |         |         |

## Hardware Settings

### Torch

|         |        |         |        |
|---------|--------|---------|--------|
| Torch H | 0.0 mm | Torch V | 0.7 mm |
|---------|--------|---------|--------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.7 mV | Analog HV | 2323 V | Pulse HV | 1462 V |
|---------------|--------|-----------|--------|----------|--------|