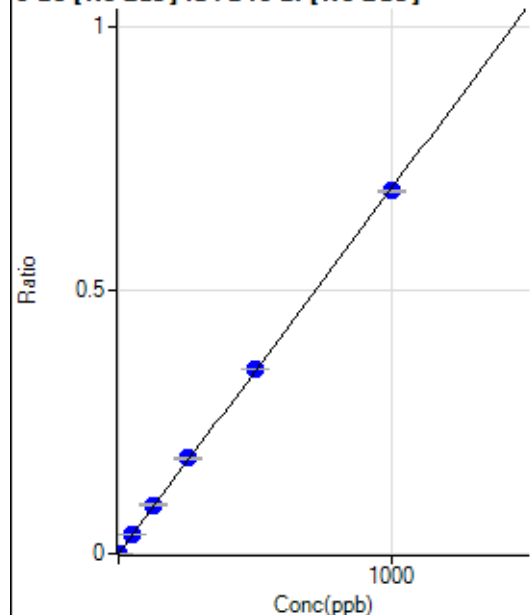


Calibration for 003CALB.d

Batch Folder: D:\ICP-MS Data\P7120318-MS.b\  
 Analysis File: P7120318-MS.batch.bin  
 DA Date-Time: 2018-12-03 22:43:07  
 Calibration Title:  
 Calibration Method: External Calibration  
 VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2018-12-03 13:05:46 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2018-12-03 13:14:08 |
| 4     | 006CALS.d          | S03         | 2018-12-03 13:18:02 |
| 5     | 007CALS.d          | S04         | 2018-12-03 13:22:11 |
| 6     | 008CALS.d          | S05         | 2018-12-03 13:25:58 |
| 7     | 009CALS.d          | S06         | 2018-12-03 13:29:44 |
| 8     | 010CALS.d          | S07         | 2018-12-03 13:33:28 |
| 9     | 011CALS.d          | S08         | 2018-12-03 13:37:13 |

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      | 24.08      | 0.0000 | P   | 96.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.962      | 3648.69    | 0.0007 | P   | 4.3  |
| 4 | <input type="checkbox"/> | 50.000   | 54.285     | 203281.70  | 0.0377 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 133.472    | 493725.37  | 0.0926 | P   | 1.5  |
| 6 | <input type="checkbox"/> | 250.000  | 260.769    | 928650.29  | 0.1810 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 505.561    | 1716181.30 | 0.3508 | P   | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.254    | 3380579.01 | 0.6893 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 622.25     | 0.0001 | P   | 8.7  |

$$y = 6.9394\text{E-}004 * x + 4.4527\text{E-}006$$

$$R = 0.9999$$

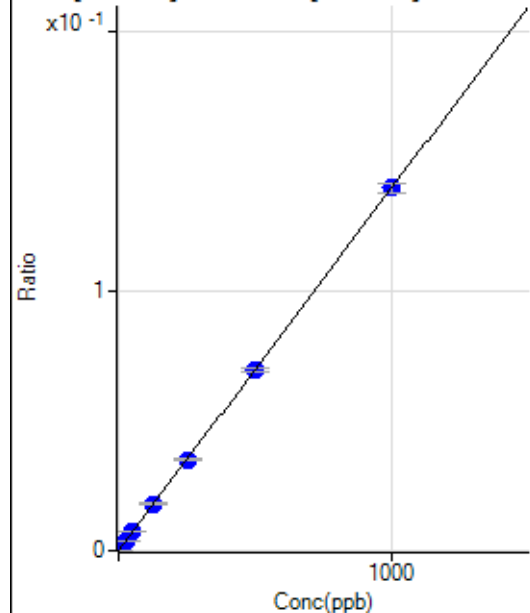
$$DL = 0.01856$$

$$BEC = 0.006416$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 300.02    | 0.0001 | P   | 17.1 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 25.000   | 23.841     | 18370.08  | 0.0034 | P   | 0.2  |
| 4 | <input type="checkbox"/> | 50.000   | 51.545     | 39110.00  | 0.0072 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 125.000  | 128.329    | 95747.30  | 0.0180 | P   | 4.4  |
| 6 | <input type="checkbox"/> | 250.000  | 250.576    | 179712.66 | 0.0350 | P   | 2.1  |
| 7 | <input type="checkbox"/> | 500.000  | 497.603    | 339960.21 | 0.0695 | P   | 2.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.590   | 685113.24 | 0.1397 | P   | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 16924.04  | 0.0037 | P   | 9.5  |

$$y = 1.3955\text{E-}004 * x + 5.5438\text{E-}005$$

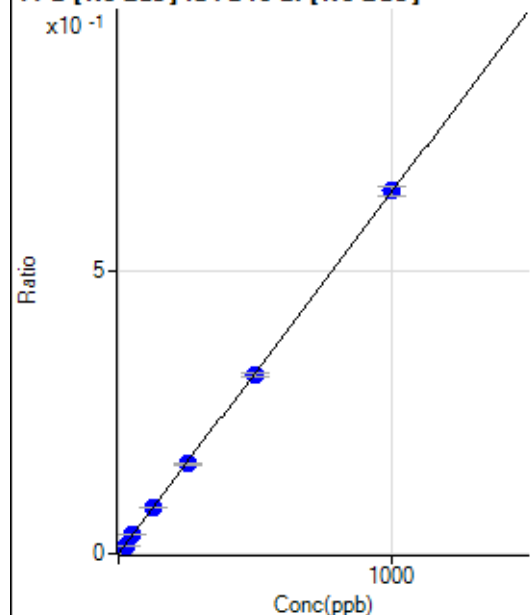
$$R = 1.0000$$

$$DL = 0.2039$$

$$BEC = 0.3973$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1414.02    | 0.0003 | P   | 1.4 |
| 2 | <input type="checkbox"/> | 2.500    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 25.000   | 22.972     | 81051.40   | 0.0149 | P   | 1.5 |
| 4 | <input type="checkbox"/> | 50.000   | 50.846     | 176526.18  | 0.0327 | P   | 2.6 |
| 5 | <input type="checkbox"/> | 125.000  | 126.822    | 432933.92  | 0.0812 | P   | 2.4 |
| 6 | <input type="checkbox"/> | 250.000  | 247.516    | 812081.88  | 0.1583 | P   | 1.9 |
| 7 | <input type="checkbox"/> | 500.000  | 493.671    | 1542862.48 | 0.3154 | P   | 1.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.566   | 3143313.98 | 0.6409 | P   | 2.5 |
| 9 | <input type="checkbox"/> |          |            | 77059.06   | 0.0168 | P   | 9.2 |

$$y = 6.3837\text{E-}004 * x + 2.6114\text{E-}004$$

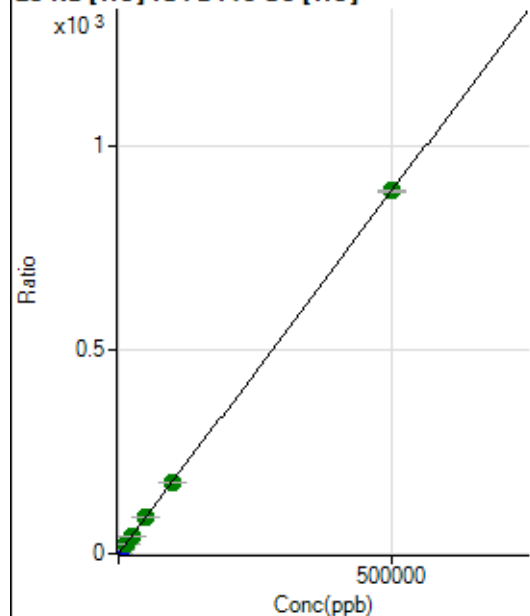
$$R = 1.0000$$

$$DL = 0.01689$$

$$BEC = 0.4091$$

Weight: &lt;None&gt;

Min Conc: 0

**23 Na [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      | 8010.78     | 0.0249   | P   | 2.3 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 455.856    | 271015.08   | 0.8365   | P   | 1.5 |
| 4 | <input type="checkbox"/> | 5000.000  | 4925.851   | 2787617.66  | 8.7945   | P   | 0.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12345.124  | 6578006.01  | 22.0033  | A   | 0.2 |
| 6 | <input type="checkbox"/> | 25000.000 | 25074.361  | 12085202.18 | 44.6655  | A   | 0.3 |
| 7 | <input type="checkbox"/> | 50000.000 | 49512.421  | 23807318.59 | 88.1733  | A   | 0.8 |
| 8 | <input type="checkbox"/> | 100000.00 | 98796.237  | 49855135.14 | 175.9146 | A   | 0.4 |
| 9 | <input type="checkbox"/> | 500000.00 | 500290.45  | 286804350.8 | 890.7060 | A   | 0.3 |

$$y = 0.0018 * x + 0.0249$$

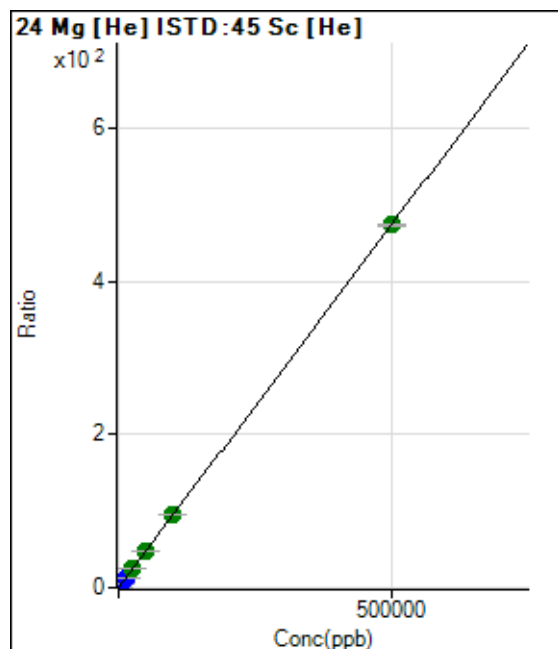
$$R = 1.0000$$

$$DL = 0.9749$$

$$BEC = 13.99$$

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      | 130.56      | 0.0004   | P   | 44.6 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 463.991    | 142759.71   | 0.4406   | P   | 0.7  |
| 4 | <input type="checkbox"/> | 5000.000  | 5092.315   | 1531395.38  | 4.8313   | P   | 0.8  |
| 5 | <input type="checkbox"/> | 12500.000 | 12777.091  | 3623793.61  | 12.1216  | P   | 0.4  |
| 6 | <input type="checkbox"/> | 25000.000 | 25673.326  | 6590012.95  | 24.3559  | A   | 0.1  |
| 7 | <input type="checkbox"/> | 50000.000 | 50349.375  | 12896837.96 | 47.7653  | A   | 1.0  |
| 8 | <input type="checkbox"/> | 100000.00 | 99896.052  | 26857644.70 | 94.7687  | A   | 0.7  |
| 9 | <input type="checkbox"/> | 500000.00 | 499944.37  | 152711877.0 | 474.2821 | A   | 0.5  |

$$y = 9.4867\text{E-}004 * x + 4.1008\text{E-}004$$

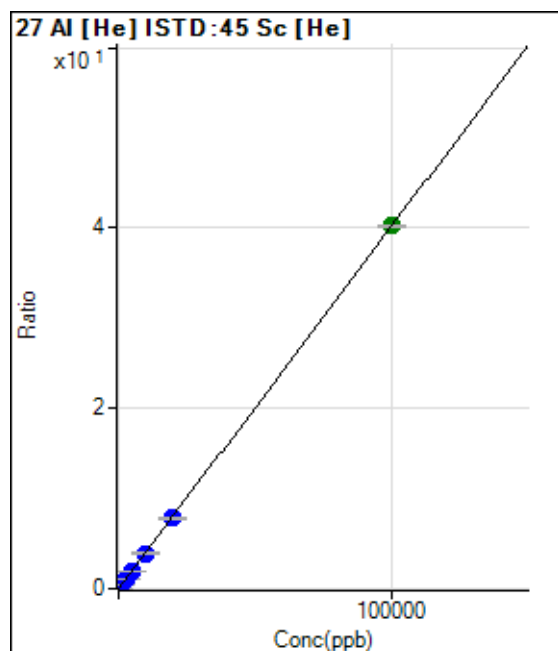
$$R = 1.0000$$

$$DL = 0.5788$$

$$BEC = 0.4323$$

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      | 22.22       | 0.0001  | P   | 59.6 |
| 2 | <input type="checkbox"/> | 2.000     |            |             |         |     |      |
| 3 | <input type="checkbox"/> | 20.000    | 17.958     | 2361.40     | 0.0073  | P   | 9.2  |
| 4 | <input type="checkbox"/> | 1000.000  | 988.299    | 125870.41   | 0.3971  | P   | 0.3  |
| 5 | <input type="checkbox"/> | 2500.000  | 2488.702   | 298910.54   | 0.9998  | P   | 1.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 4982.205   | 541566.39   | 2.0016  | P   | 0.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 9773.432   | 1060138.92  | 3.9263  | P   | 1.0  |
| 8 | <input type="checkbox"/> | 20000.000 | 19464.463  | 2216041.09  | 7.8195  | P   | 1.0  |
| 9 | <input type="checkbox"/> | 100000.00 | 100131.05  | 12951802.72 | 40.2255 | A   | 0.6  |

$$y = 4.0173\text{E-}004 * x + 7.0019\text{E-}005$$

$$R = 1.0000$$

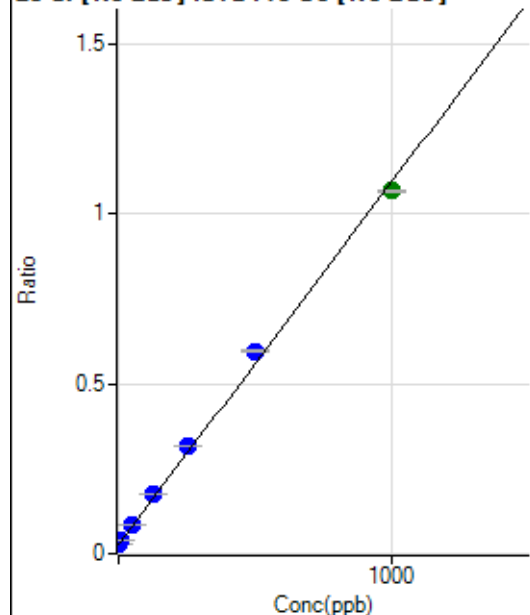
$$DL = 0.3118$$

$$BEC = 0.1743$$

Weight: <None>

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 221072.95  | 0.0268 | P   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.973      | 310808.55  | 0.0374 | P   | 0.1 |
| 4 | <input type="checkbox"/> | 50.000   | 56.511     | 707849.56  | 0.0871 | P   | 0.7 |
| 5 | <input type="checkbox"/> | 125.000  | 139.926    | 1385241.63 | 0.1762 | P   | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 271.398    | 2329143.11 | 0.3166 | P   | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 532.948    | 4133633.12 | 0.5958 | P   | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 975.985    | 7729598.61 | 1.0688 | A   | 0.3 |
| 9 | <input type="checkbox"/> |          |            | 540300.28  | 0.0719 | P   | 0.2 |

$$y = 0.0011 * x + 0.0268$$

$$R = 0.9989$$

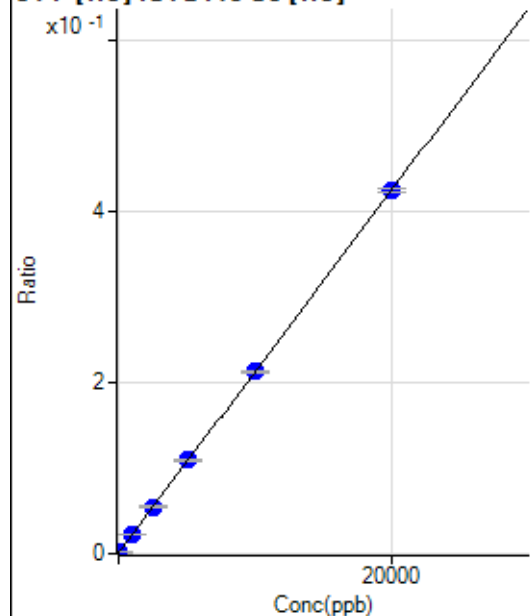
$$DL = 0.2965$$

$$BEC = 25.09$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | -27.582    | 102.78    | 0.0003 | P   | 24.1 |
| 2 | <input type="checkbox"/> | 0.000     |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 0.000     | 27.582     | 483.36    | 0.0015 | P   | 10.2 |
| 4 | <input type="checkbox"/> | 1000.000  | 1014.200   | 7107.56   | 0.0224 | P   | 3.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2540.321   | 16384.62  | 0.0548 | P   | 3.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 5137.048   | 29738.78  | 0.1099 | P   | 1.7  |
| 7 | <input type="checkbox"/> | 10000.000 | 9992.347   | 57492.39  | 0.2129 | P   | 1.2  |
| 8 | <input type="checkbox"/> | 20000.000 | 19963.814  | 120315.73 | 0.4245 | P   | 1.1  |
| 9 | <input type="checkbox"/> |           |            | 244.46    | 0.0008 | P   | 24.3 |

$$y = 2.1219E-005 * x + 9.0466E-004$$

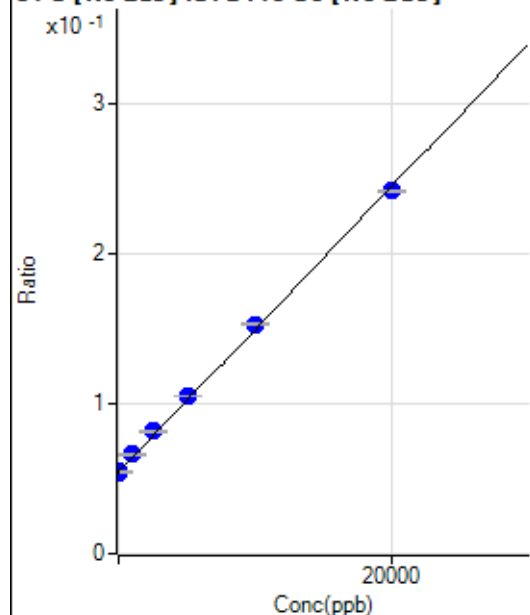
$$R = 1.0000$$

$$DL = 16.14$$

$$BEC = 42.63$$

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     | -28.630    | 446605.67  | 0.0541 | P   | 1.0 |
| 2 | <input type="checkbox"/> | 0.000     |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 0.000     | 28.630     | 453813.99  | 0.0547 | P   | 0.8 |
| 4 | <input type="checkbox"/> | 1000.000  | 1247.186   | 538356.78  | 0.0663 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 2500.000  | 2856.207   | 641456.46  | 0.0816 | P   | 0.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 5322.490   | 773105.55  | 0.1051 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 10000.000 | 10365.978  | 1062084.70 | 0.1531 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 20000.000 | 19679.503  | 1748360.17 | 0.2418 | P   | 0.6 |
| 9 | <input type="checkbox"/> |           |            | 370781.43  | 0.0493 | P   | 1.4 |

$$y = 9.5210\text{E-}006 * x + 0.0544$$

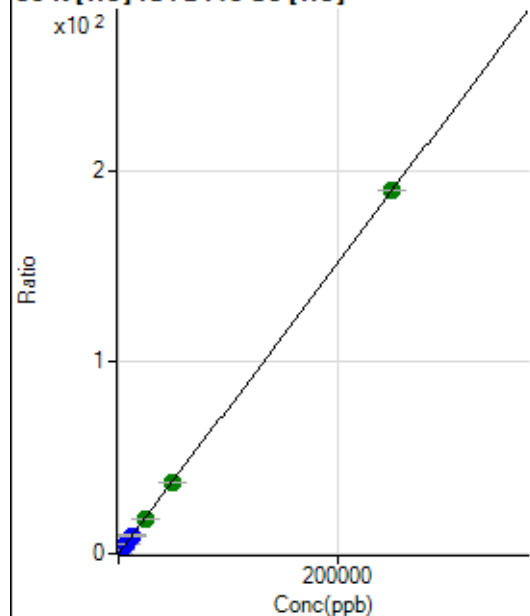
$$R = 0.9995$$

$$DL = 155.2$$

$$BEC = 5713$$

Weight: &lt;None&gt;

Min Conc: 0

**39 K [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      | 15867.31    | 0.0494   | P   | 3.5 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 474.916    | 132380.41   | 0.4085   | P   | 0.9 |
| 4 | <input type="checkbox"/> | 2500.000  | 2527.531   | 621577.78   | 1.9610   | P   | 0.4 |
| 5 | <input type="checkbox"/> | 6250.000  | 6289.892   | 1436915.66  | 4.8065   | P   | 0.7 |
| 6 | <input type="checkbox"/> | 12500.000 | 12506.555  | 2572671.63  | 9.5082   | P   | 0.7 |
| 7 | <input type="checkbox"/> | 25000.000 | 24331.977  | 4982303.63  | 18.4520  | A   | 0.4 |
| 8 | <input type="checkbox"/> | 50000.000 | 48606.561  | 10432610.65 | 36.8112  | A   | 0.0 |
| 9 | <input type="checkbox"/> | 250000.00 | 250343.94  | 60982429.83 | 189.3880 | A   | 0.2 |

$$y = 7.5631\text{E-}004 * x + 0.0494$$

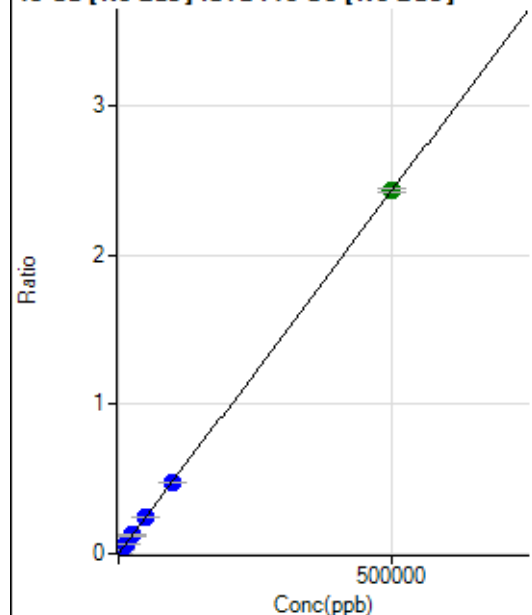
$$R = 1.0000$$

$$DL = 6.814$$

$$BEC = 65.27$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 161.12      | 0.0000 | P   | 74.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 462.592    | 18826.54    | 0.0023 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 5000.000  | 5031.764   | 198844.09   | 0.0245 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12624.323  | 482546.93   | 0.0614 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 25000.000 | 25231.120  | 902373.66   | 0.1226 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 50000.000 | 50295.402  | 1695968.01  | 0.2444 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 100000.00 | 98222.335  | 3452351.42  | 0.4774 | P   | 0.2  |
| 9 | <input type="checkbox"/> | 500000.00 | 500311.04  | 18273952.67 | 2.4315 | A   | 1.2  |

$$y = 4.8599E-006 * x + 1.9533E-005$$

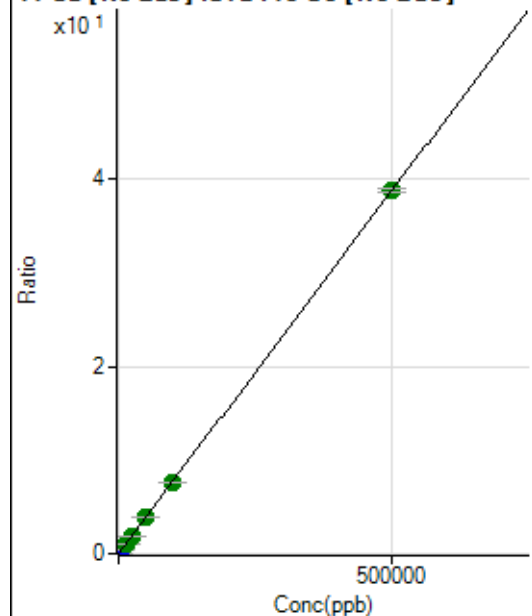
$$R = 1.0000$$

$$DL = 9.033$$

$$BEC = 4.019$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|-----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 7266.51     | 0.0009  | P   | 2.7 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |     |     |
| 3 | <input type="checkbox"/> | 500.000   | 466.430    | 307268.81   | 0.0370  | P   | 1.4 |
| 4 | <input type="checkbox"/> | 5000.000  | 5031.829   | 3174037.20  | 0.3907  | P   | 0.6 |
| 5 | <input type="checkbox"/> | 12500.000 | 12413.197  | 7567371.95  | 0.9625  | A   | 0.3 |
| 6 | <input type="checkbox"/> | 25000.000 | 24726.359  | 14100384.34 | 1.9163  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 50000.000 | 49931.591  | 26840610.15 | 3.8688  | A   | 0.3 |
| 8 | <input type="checkbox"/> | 100000.00 | 98573.091  | 55228599.85 | 7.6367  | A   | 0.3 |
| 9 | <input type="checkbox"/> | 500000.00 | 500307.79  | 291288634.2 | 38.7566 | A   | 1.0 |

$$y = 7.7464E-005 * x + 8.8056E-004$$

$$R = 1.0000$$

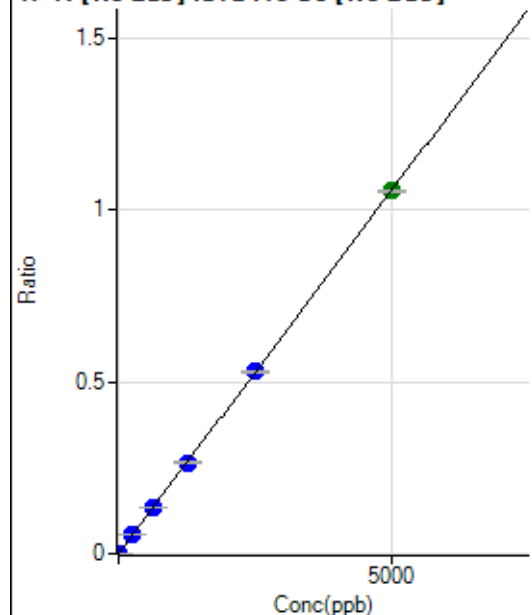
$$DL = 0.9297$$

$$BEC = 11.37$$

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      | 108.34     | 0.0000 | P   | 34.9 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.889      | 8683.43    | 0.0010 | P   | 1.0  |
| 4 | <input type="checkbox"/> | 250.000  | 252.735    | 433883.88  | 0.0534 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 625.000  | 632.024    | 1049878.07 | 0.1335 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1254.629   | 1950266.04 | 0.2651 | P   | 1.0  |
| 7 | <input type="checkbox"/> | 2500.000 | 2502.854   | 3668407.55 | 0.5287 | P   | 1.0  |
| 8 | <input type="checkbox"/> | 5000.000 | 4996.401   | 7633325.78 | 1.0555 | A   | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 6057.07    | 0.0008 | P   | 2.8  |

$$y = 2.1125E-004 * x + 1.3118E-005$$

$$R = 1.0000$$

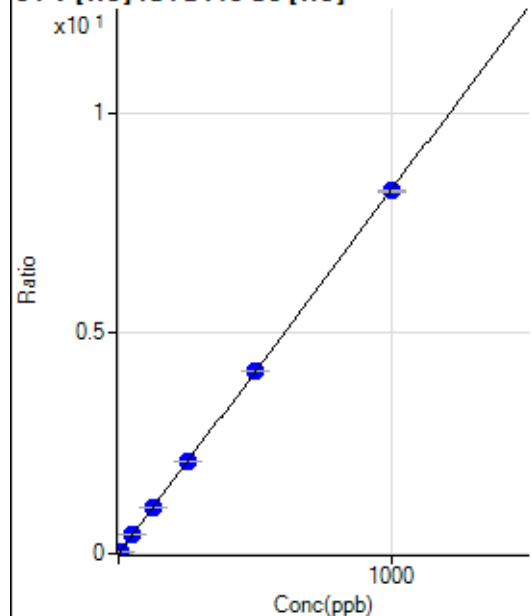
$$DL = 0.06506$$

$$BEC = 0.0621$$

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      | 1.11       | 0.0000 | P   | 173.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |       |
| 3 | <input type="checkbox"/> | 5.000    | 5.013      | 13412.93   | 0.0414 | P   | 2.6   |
| 4 | <input type="checkbox"/> | 50.000   | 51.203     | 134037.52  | 0.4229 | P   | 0.4   |
| 5 | <input type="checkbox"/> | 125.000  | 127.346    | 314405.16  | 1.0517 | P   | 0.5   |
| 6 | <input type="checkbox"/> | 250.000  | 254.465    | 568603.18  | 2.1015 | P   | 0.8   |
| 7 | <input type="checkbox"/> | 500.000  | 503.773    | 1123401.88 | 4.1604 | P   | 0.2   |
| 8 | <input type="checkbox"/> | 1000.000 | 996.644    | 2332628.33 | 8.2308 | P   | 0.6   |
| 9 | <input type="checkbox"/> |          |            | 1020.05    | 0.0032 | P   | 6.3   |

$$y = 0.0083 * x + 3.5833E-006$$

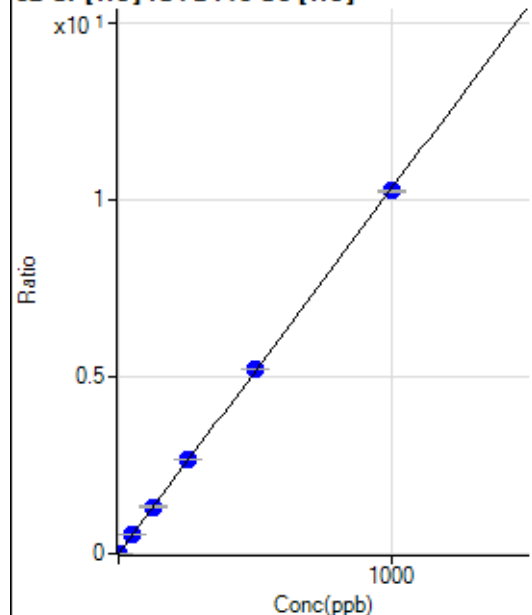
$$R = 1.0000$$

$$DL = 0.002255$$

$$BEC = 0.0004339$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 832.26     | 0.0026  | P   | 8.6 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |     |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.888      | 7156.27    | 0.0221  | P   | 2.3 |
| 4 | <input type="checkbox"/> | 50.000   | 52.015     | 171065.41  | 0.5397  | P   | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 128.616    | 397794.46  | 1.3306  | P   | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 257.611    | 720422.88  | 2.6626  | P   | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 507.214    | 1414864.29 | 5.2399  | P   | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.938    | 2909315.27 | 10.2656 | P   | 0.6 |
| 9 | <input type="checkbox"/> |          |            | 112923.80  | 0.3507  | P   | 0.4 |

$$y = 0.0103 * x + 0.0026$$

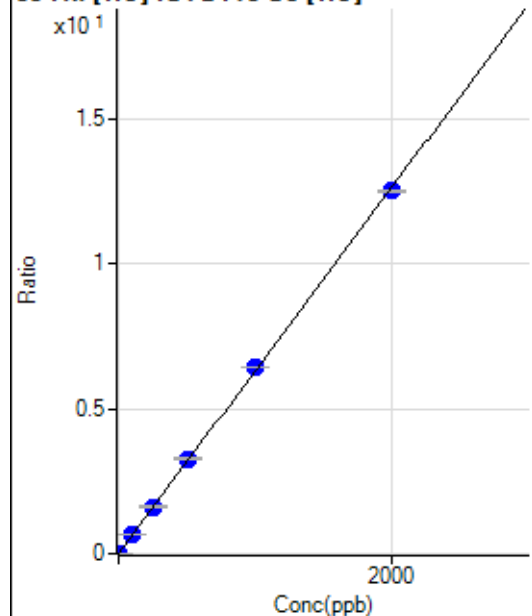
$$R = 0.9999$$

$$DL = 0.0644$$

$$BEC = 0.2509$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 50.00      | 0.0002  | P   | 29.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.972      | 2039.07    | 0.0063  | P   | 1.9  |
| 4 | <input type="checkbox"/> | 100.000  | 103.105    | 206380.11  | 0.6511  | P   | 0.3  |
| 5 | <input type="checkbox"/> | 250.000  | 257.345    | 485757.89  | 1.6249  | P   | 0.7  |
| 6 | <input type="checkbox"/> | 500.000  | 519.109    | 886787.97  | 3.2775  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1021.885   | 1742039.50 | 6.4517  | P   | 0.4  |
| 8 | <input type="checkbox"/> | 2000.000 | 1983.207   | 3548424.22 | 12.5208 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 27362.30   | 0.0850  | P   | 0.5  |

$$y = 0.0063 * x + 1.5506E-004$$

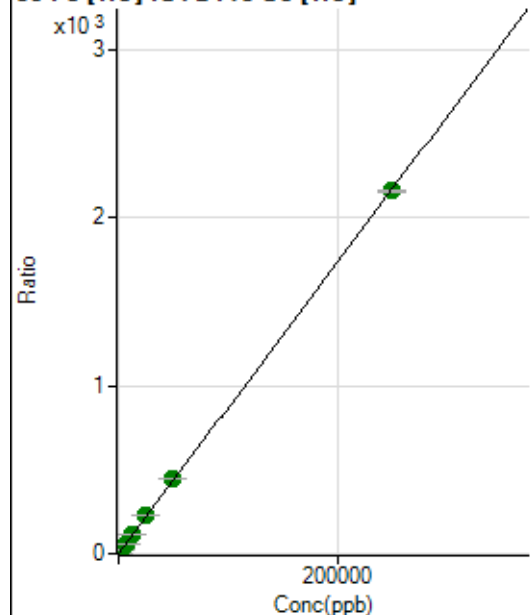
$$R = 0.9999$$

$$DL = 0.02172$$

$$BEC = 0.02456$$

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      | 3793.19     | 0.0118    | P   | 4.8 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |     |     |
| 3 | <input type="checkbox"/> | 50.000    | 53.035     | 152525.86   | 0.4708    | P   | 1.8 |
| 4 | <input type="checkbox"/> | 2500.000  | 2680.285   | 7356076.49  | 23.2074   | A   | 0.5 |
| 5 | <input type="checkbox"/> | 6250.000  | 6732.013   | 17420811.38 | 58.2718   | A   | 0.2 |
| 6 | <input type="checkbox"/> | 12500.000 | 13525.580  | 31674102.33 | 117.0644  | A   | 0.7 |
| 7 | <input type="checkbox"/> | 25000.000 | 26617.403  | 62198561.11 | 230.3632  | A   | 1.1 |
| 8 | <input type="checkbox"/> | 50000.000 | 51762.531  | 126956706.5 | 447.9733  | A   | 0.8 |
| 9 | <input type="checkbox"/> | 250000.00 | 249420.62  | 694993711.8 | 2,158.539 | A   | 0.8 |

$$y = 0.0087 * x + 0.0118$$

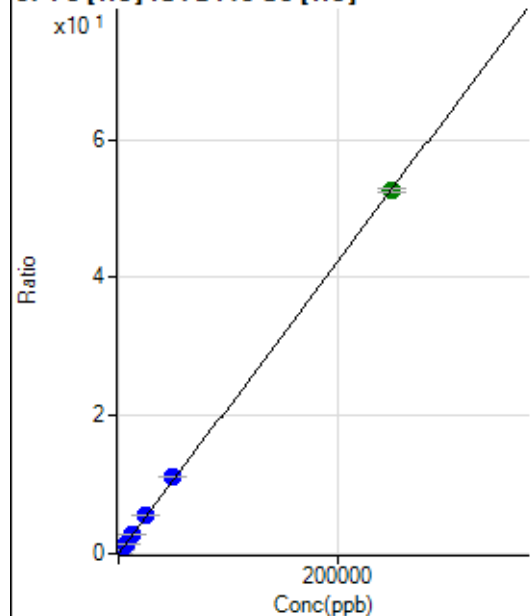
$$R = 1.0000$$

$$DL = 0.1974$$

$$BEC = 1.364$$

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      | 135.19      | 0.0004  | P   | 17.8 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |         |     |      |
| 3 | <input type="checkbox"/> | 50.000    | 53.959     | 3822.83     | 0.0118  | P   | 1.2  |
| 4 | <input type="checkbox"/> | 2500.000  | 2718.164   | 181801.29   | 0.5735  | P   | 0.5  |
| 5 | <input type="checkbox"/> | 6250.000  | 6765.313   | 426570.99   | 1.4269  | P   | 0.2  |
| 6 | <input type="checkbox"/> | 12500.000 | 13658.289  | 779309.28   | 2.8802  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 25000.000 | 26802.059  | 1526005.85  | 5.6516  | P   | 0.5  |
| 8 | <input type="checkbox"/> | 50000.000 | 52911.091  | 3161805.45  | 11.1566 | P   | 0.8  |
| 9 | <input type="checkbox"/> | 250000.00 | 249164.59  | 16914754.31 | 52.5361 | A   | 0.9  |

$$y = 2.1085E-004 * x + 4.1863E-004$$

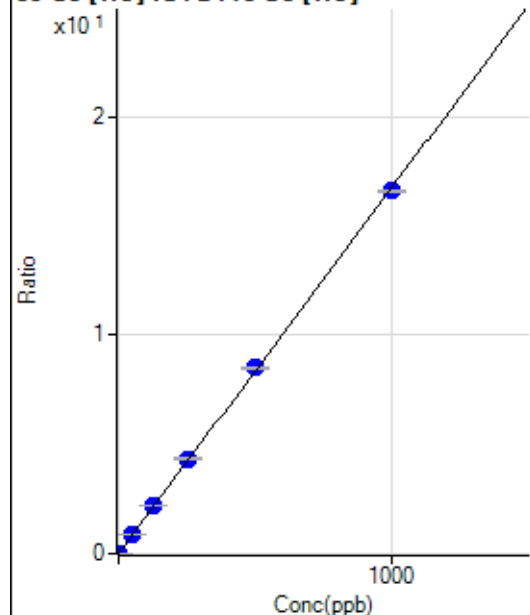
$$R = 0.9999$$

$$DL = 1.058$$

$$BEC = 1.985$$

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      | 65.56      | 0.0002  | P   | 22.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.979      | 5369.96    | 0.0166  | P   | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 52.865     | 280400.98  | 0.8846  | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 130.957    | 655005.65  | 2.1910  | P   | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 260.057    | 1177172.92 | 4.3507  | P   | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 508.405    | 2296560.99 | 8.5053  | P   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.396    | 4705039.30 | 16.6020 | P   | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 63958.64   | 0.1986  | P   | 0.5  |

$$y = 0.0167 * x + 2.0433E-004$$

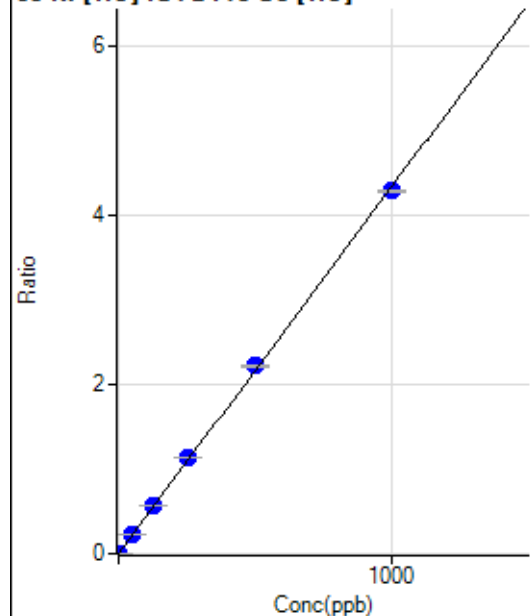
$$R = 0.9999$$

$$DL = 0.008382$$

$$BEC = 0.01221$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 48.89      | 0.0002 | P   | 11.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.979      | 1425.65    | 0.0044 | P   | 5.5  |
| 4 | <input type="checkbox"/> | 50.000   | 54.151     | 74500.21   | 0.2350 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 132.799    | 172245.45  | 0.5762 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 263.002    | 308710.82  | 1.1410 | P   | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 511.740    | 599401.58  | 2.2199 | P   | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.697    | 1216670.64 | 4.2931 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 40078.25   | 0.1245 | P   | 0.5  |

$$y = 0.0043 * x + 1.5236E-004$$

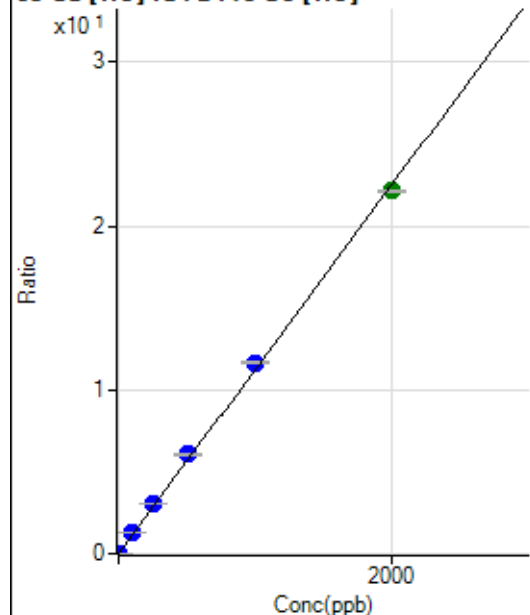
$$R = 0.9998$$

$$DL = 0.01194$$

$$BEC = 0.03513$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 340.01     | 0.0011  | P    | 23.1 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.068      | 7880.02    | 0.0243  | P    | 1.5  |
| 4 | <input type="checkbox"/> | 100.000  | 111.022    | 396044.51  | 1.2495  | P    | 0.2  |
| 5 | <input type="checkbox"/> | 250.000  | 272.078    | 914926.96  | 3.0604  | P    | 0.4  |
| 6 | <input type="checkbox"/> | 500.000  | 537.780    | 1636445.88 | 6.0481  | P    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 1035.974   | 3145678.46 | 11.6501 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 2000.000 | 1969.257   | 6275765.60 | 22.1444 | A    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 17051.20   | 0.0530  | P    | 1.5  |

$$y = 0.0112 * x + 0.0011$$

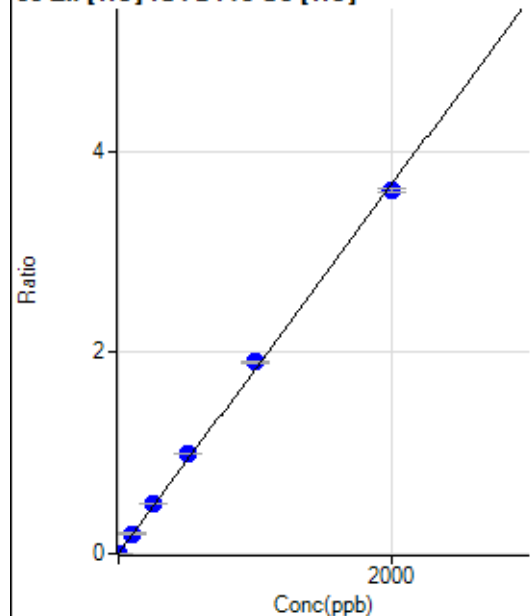
$$R = 0.9995$$

$$DL = 0.06553$$

$$BEC = 0.09449$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 588.91     | 0.0018 | P    | 6.1 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 1.978      | 1765.69    | 0.0055 | P    | 6.0 |
| 4 | <input type="checkbox"/> | 100.000  | 108.224    | 63398.01   | 0.2000 | P    | 0.6 |
| 5 | <input type="checkbox"/> | 250.000  | 270.293    | 148517.71  | 0.4968 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 538.991    | 267554.75  | 0.9888 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 1000.000 | 1041.469   | 515438.92  | 1.9090 | P    | 0.9 |
| 8 | <input type="checkbox"/> | 2000.000 | 1966.570   | 1021115.51 | 3.6031 | P    | 0.9 |
| 9 | <input type="checkbox"/> |          |            | 9964.64    | 0.0310 | P    | 2.5 |

$$y = 0.0018 * x + 0.0018$$

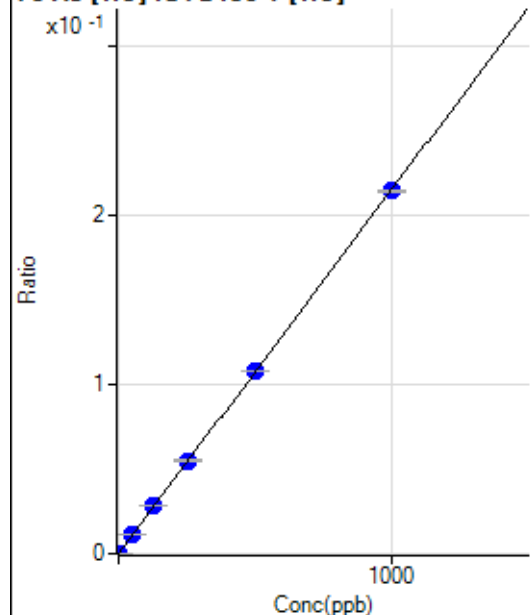
$$R = 0.9994$$

$$DL = 0.1826$$

$$BEC = 0.9985$$

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      | 7.41      | 0.0000 | P   | 27.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.977      | 353.09    | 0.0002 | P   | 5.3  |
| 4 | <input type="checkbox"/> | 50.000   | 52.939     | 18495.17  | 0.0114 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 125.000  | 130.063    | 43017.63  | 0.0280 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 256.258    | 77799.64  | 0.0551 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 501.367    | 151860.31 | 0.1077 | P   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.972    | 312700.13 | 0.2142 | P   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 672.24    | 0.0004 | P   | 5.9  |

$$y = 2.1488\text{E-}004 * x + 4.6143\text{E-}006$$

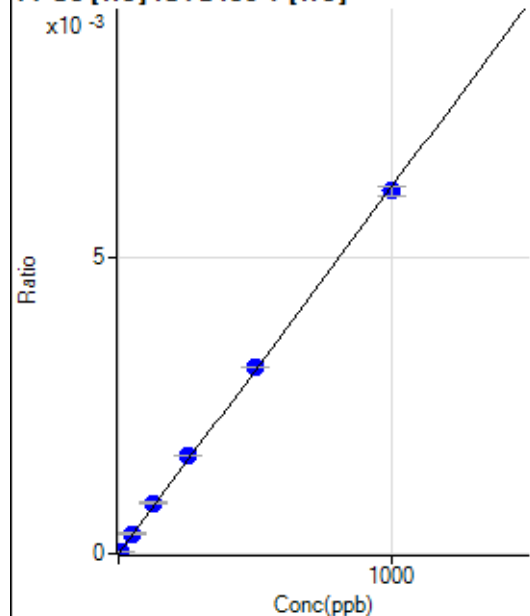
$$R = 1.0000$$

$$DL = 0.01794$$

$$BEC = 0.02147$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|---------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 0.00    | 0.0000 | P   |      |
| 2 | <input type="checkbox"/> | 0.500    |            |         |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 6.228      | 63.33   | 0.0000 | P   | 22.2 |
| 4 | <input type="checkbox"/> | 50.000   | 54.488     | 547.80  | 0.0003 | P   | 14.1 |
| 5 | <input type="checkbox"/> | 125.000  | 137.907    | 1313.42 | 0.0009 | P   | 4.6  |
| 6 | <input type="checkbox"/> | 250.000  | 266.434    | 2329.12 | 0.0016 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 509.022    | 4439.64 | 0.0031 | P   | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.537    | 8937.33 | 0.0061 | P   | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 15.56   | 0.0000 | P   | 63.5 |

$$y = 6.1876\text{E-}006 * x + 0.0000\text{E+}000$$

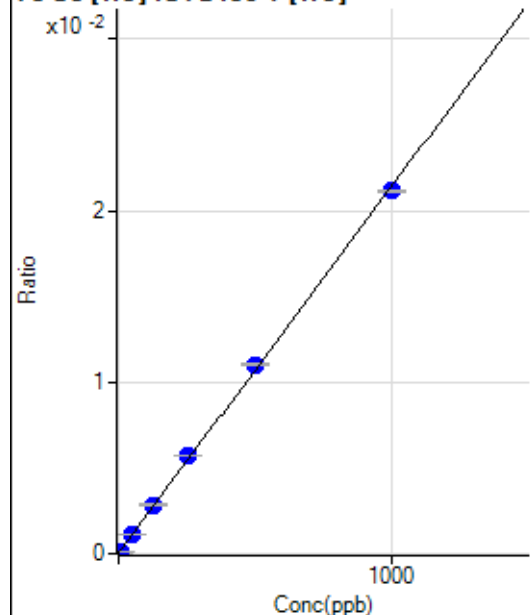
$$R = 0.9998$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS      | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 49.39    | 0.0000 | P   | 29.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 6.005      | 261.73   | 0.0002 | P   | 7.2  |
| 4 | <input type="checkbox"/> | 50.000   | 51.935     | 1853.22  | 0.0011 | P   | 1.8  |
| 5 | <input type="checkbox"/> | 125.000  | 132.203    | 4393.92  | 0.0029 | P   | 1.3  |
| 6 | <input type="checkbox"/> | 250.000  | 266.164    | 8076.99  | 0.0057 | P   | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 513.417    | 15505.28 | 0.0110 | P   | 1.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.248    | 30862.46 | 0.0211 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 83.95    | 0.0001 | P   | 8.2  |

$$y = 2.1364\text{E-}005 * x + 3.0660\text{E-}005$$

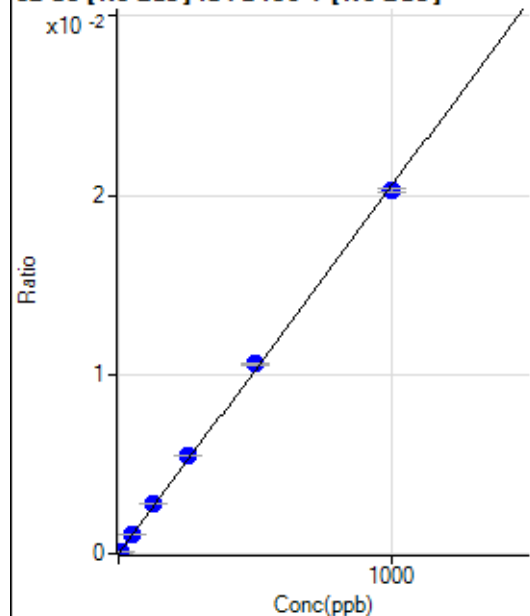
$$R = 0.9997$$

$$DL = 1.267$$

$$BEC = 1.435$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD    |
|---|--------------------------|----------|------------|-----------|--------|-----|--------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | -0.87     | 0.0000 | P   | -5794. |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |     |        |
| 3 | <input type="checkbox"/> | 5.000    | 5.423      | 1393.87   | 0.0001 | P   | 1.0    |
| 4 | <input type="checkbox"/> | 50.000   | 53.844     | 13528.75  | 0.0011 | P   | 1.1    |
| 5 | <input type="checkbox"/> | 125.000  | 135.224    | 32898.01  | 0.0028 | P   | 0.6    |
| 6 | <input type="checkbox"/> | 250.000  | 265.588    | 60919.80  | 0.0054 | P   | 1.0    |
| 7 | <input type="checkbox"/> | 500.000  | 515.603    | 113496.19 | 0.0106 | P   | 1.0    |
| 8 | <input type="checkbox"/> | 1000.000 | 986.829    | 224887.76 | 0.0202 | P   | 1.0    |
| 9 | <input type="checkbox"/> |          |            | 319.52    | 0.0000 | P   | 4.9    |

$$y = 2.0512\text{E-}005 * x - 6.6562\text{E-}008$$

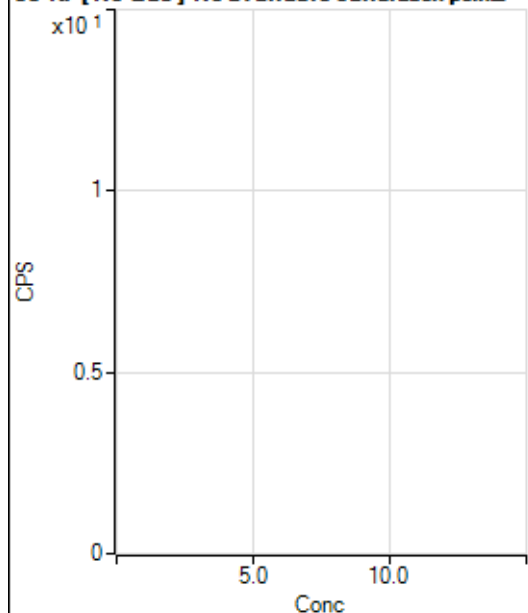
$$R = 0.9997$$

$$DL = 0.5641$$

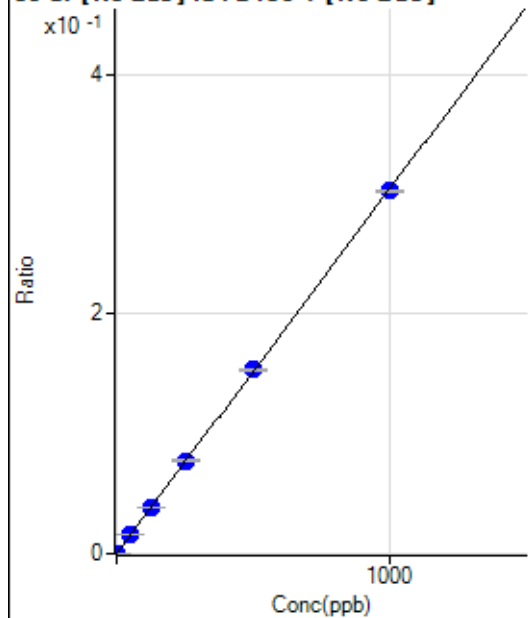
$$BEC = -0.003245$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|--------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 603.36 |       | P   | 8.4  |
| 2 | <input type="checkbox"/> |       |            |        |       |     |      |
| 3 | <input type="checkbox"/> |       |            | 562.24 |       | P   | 13.0 |
| 4 | <input type="checkbox"/> |       |            | 596.69 |       | P   | 8.3  |
| 5 | <input type="checkbox"/> |       |            | 557.80 |       | P   | 5.0  |
| 6 | <input type="checkbox"/> |       |            | 530.02 |       | P   | 10.4 |
| 7 | <input type="checkbox"/> |       |            | 537.80 |       | P   | 5.9  |
| 8 | <input type="checkbox"/> |       |            | 552.24 |       | P   | 3.5  |
| 9 | <input type="checkbox"/> |       |            | 586.69 |       | P   | 4.0  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 966.74     | 0.0001 | P   | 13.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.876      | 4303.60    | 0.0003 | P   | 5.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.658     | 189527.92  | 0.0155 | P   | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 128.490    | 464053.59  | 0.0391 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 255.500    | 869142.22  | 0.0777 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 504.939    | 1647571.75 | 0.1535 | P   | 1.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.687    | 3362612.14 | 0.3027 | P   | 0.7  |
| 9 | <input type="checkbox"/> |          |            | 16390.49   | 0.0014 | P   | 1.1  |

$$y = 3.0389\text{E-}004 * x + 7.7001\text{E-}005$$

$$R = 1.0000$$

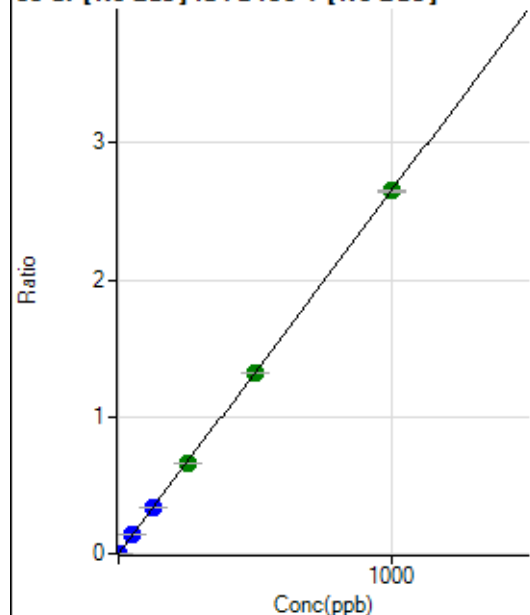
$$DL = 0.1038$$

$$BEC = 0.2534$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 125.01      | 0.0000 | P   | 48.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.911      | 30385.91    | 0.0024 | P   | 3.5  |
| 4 | <input type="checkbox"/> | 50.000   | 50.804     | 1649630.62  | 0.1347 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 127.780    | 4016892.71  | 0.3387 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 249.687    | 7400516.48  | 0.6617 | A   | 0.0  |
| 7 | <input type="checkbox"/> | 500.000  | 499.932    | 14218428.44 | 1.3250 | A   | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.724    | 29436755.52 | 2.6495 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 139770.43   | 0.0122 | P   | 1.6  |

$$y = 0.0027 * x + 9.9537E-006$$

$$R = 1.0000$$

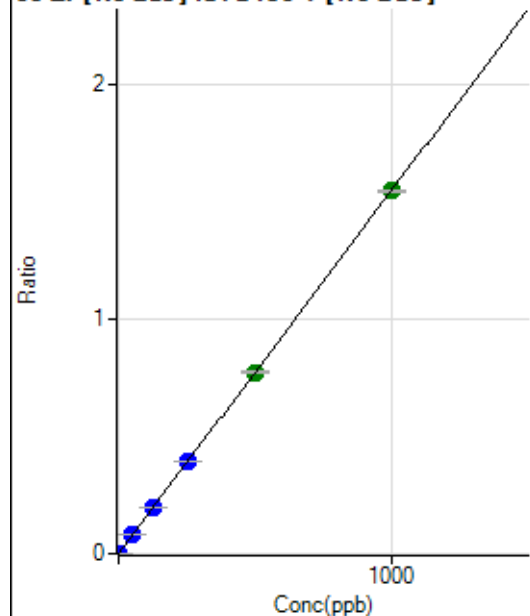
$$DL = 0.005411$$

$$BEC = 0.003756$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 797.28      | 0.0001 | P   | 5.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.947      | 19196.86    | 0.0015 | P   | 3.7 |
| 4 | <input type="checkbox"/> | 50.000   | 50.731     | 963193.50   | 0.0786 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 125.000  | 127.116    | 2335716.55  | 0.1969 | P   | 0.7 |
| 6 | <input type="checkbox"/> | 250.000  | 252.870    | 4380017.63  | 0.3917 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 499.687    | 8304789.51  | 0.7739 | A   | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 999.138    | 17191780.25 | 1.5474 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 9333.95     | 0.0008 | P   | 1.5 |

$$y = 0.0015 * x + 6.3494E-005$$

$$R = 1.0000$$

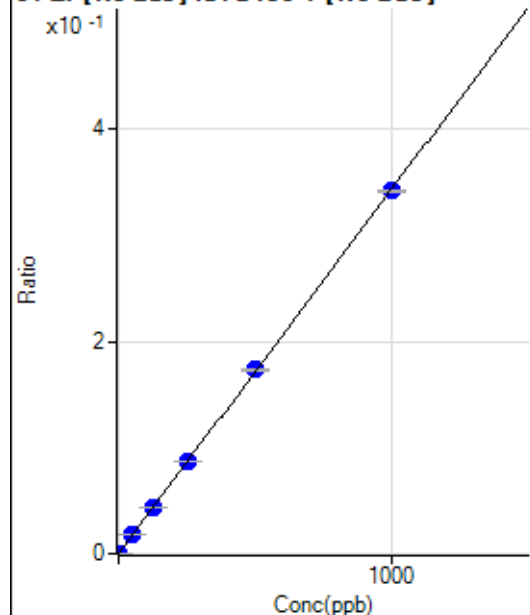
$$DL = 0.007284$$

$$BEC = 0.041$$

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      | 227.79     | 0.0000 | P   | 33.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.922      | 4192.46    | 0.0003 | P   | 2.0  |
| 4 | <input type="checkbox"/> | 50.000   | 50.757     | 213437.57  | 0.0174 | P   | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 128.556    | 523100.17  | 0.0441 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 255.328    | 979357.89  | 0.0876 | P   | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 504.228    | 1855739.52 | 0.1729 | P   | 0.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.072    | 3795130.42 | 0.3416 | P   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 2211.38    | 0.0002 | P   | 6.6  |

$$y = 3.4292\text{E-}004 * x + 1.8138\text{E-}005$$

$$R = 1.0000$$

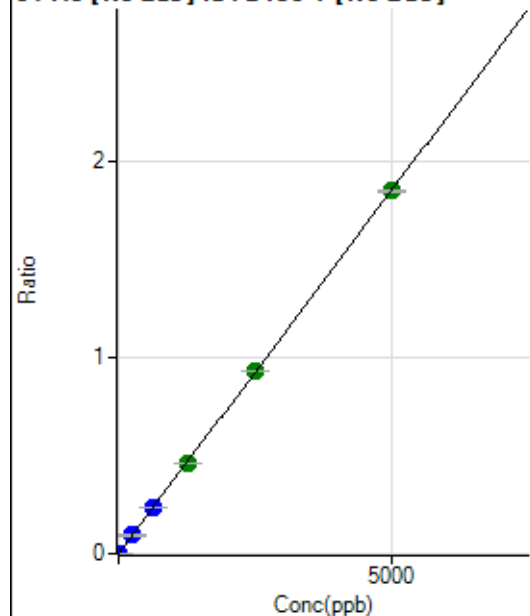
$$DL = 0.05349$$

$$BEC = 0.05289$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 341.68      | 0.0000 | P   | 4.8 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 4.794      | 22615.77    | 0.0018 | P   | 1.6 |
| 4 | <input type="checkbox"/> | 250.000  | 252.985    | 1148603.79  | 0.0938 | P   | 1.3 |
| 5 | <input type="checkbox"/> | 625.000  | 639.543    | 2810960.07  | 0.2370 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.521   | 5173751.51  | 0.4626 | A   | 0.1 |
| 7 | <input type="checkbox"/> | 2500.000 | 2507.784   | 9971448.23  | 0.9292 | A   | 0.4 |
| 8 | <input type="checkbox"/> | 5000.000 | 4994.511   | 20560519.56 | 1.8506 | A   | 0.5 |
| 9 | <input type="checkbox"/> |          |            | 26745.19    | 0.0023 | P   | 1.5 |

$$y = 3.7052\text{E-}004 * x + 2.7212\text{E-}005$$

$$R = 1.0000$$

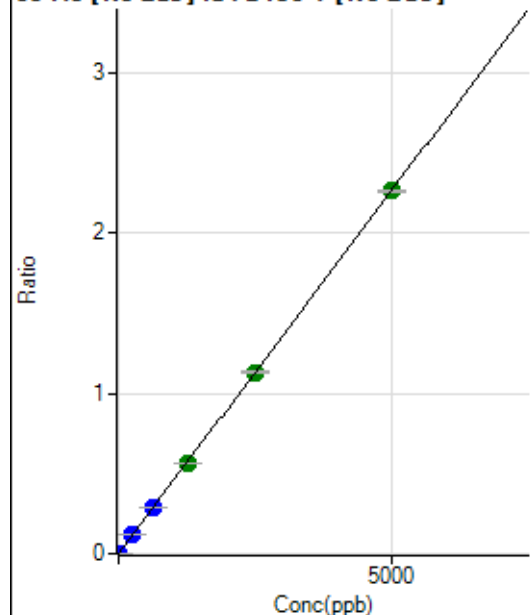
$$DL = 0.01056$$

$$BEC = 0.07344$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22       | 0.0000 | P   | 86.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.921      | 27944.85    | 0.0022 | P   | 0.4  |
| 4 | <input type="checkbox"/> | 250.000  | 253.644    | 1405951.48  | 0.1148 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 625.000  | 638.828    | 3428391.18  | 0.2890 | P   | 0.4  |
| 6 | <input type="checkbox"/> | 1250.000 | 1250.206   | 6326011.64  | 0.5657 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2500.611   | 12141356.26 | 1.1314 | A   | 0.6  |
| 8 | <input type="checkbox"/> | 5000.000 | 4997.732   | 25123222.78 | 2.2613 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 41631.20    | 0.0036 | P   | 2.3  |

$$y = 4.5246\text{E-}004 * x + 1.7700\text{E-}006$$

$$R = 1.0000$$

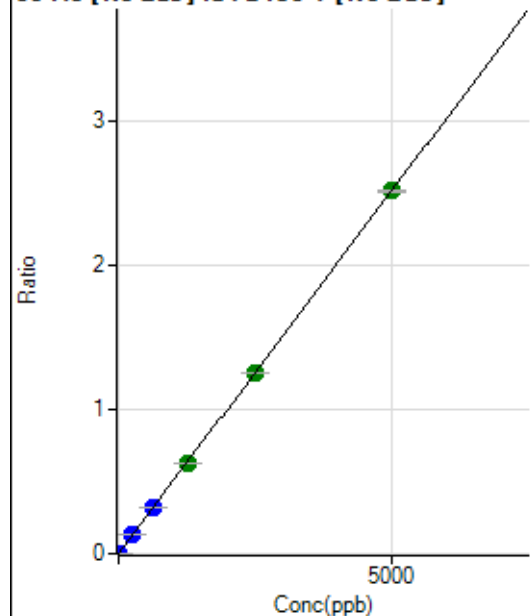
$$DL = 0.01016$$

$$BEC = 0.003912$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 94.45       | 0.0000 | P   | 13.4 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.821      | 30480.63    | 0.0024 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 250.000  | 254.266    | 1565724.78  | 0.1278 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 639.126    | 3810178.90  | 0.3212 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 1250.000 | 1246.710   | 7007701.03  | 0.6266 | A   | 0.3  |
| 7 | <input type="checkbox"/> | 2500.000 | 2493.916   | 13450858.98 | 1.2535 | A   | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 5001.886   | 27930650.97 | 2.5140 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 52115.44    | 0.0045 | P   | 2.3  |

$$y = 5.0261\text{E-}004 * x + 7.5217\text{E-}006$$

$$R = 1.0000$$

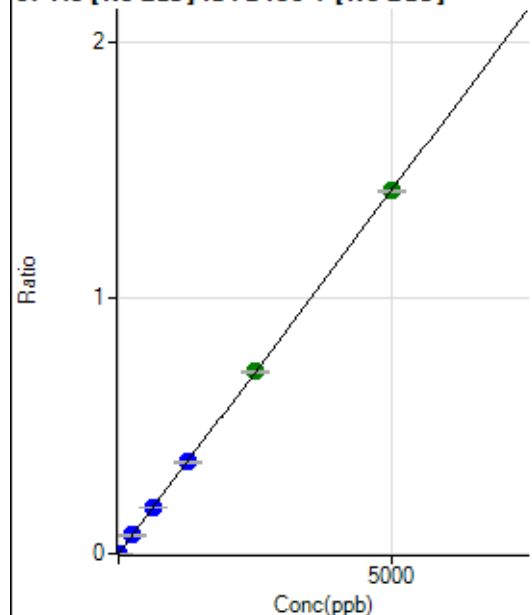
$$DL = 0.00602$$

$$BEC = 0.01497$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD   |
|---|--------------------------|----------|------------|-------------|--------|-----|-------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22       | 0.0000 | P   | 108.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |       |
| 3 | <input type="checkbox"/> | 5.000    | 4.835      | 17263.88    | 0.0014 | P   | 2.7   |
| 4 | <input type="checkbox"/> | 250.000  | 252.069    | 878270.15   | 0.0717 | P   | 0.9   |
| 5 | <input type="checkbox"/> | 625.000  | 635.595    | 2144150.88  | 0.1808 | P   | 0.4   |
| 6 | <input type="checkbox"/> | 1250.000 | 1257.919   | 4001031.43  | 0.3578 | P   | 0.1   |
| 7 | <input type="checkbox"/> | 2500.000 | 2504.821   | 7644853.04  | 0.7124 | A   | 0.4   |
| 8 | <input type="checkbox"/> | 5000.000 | 4994.182   | 15780958.69 | 1.4204 | A   | 0.7   |
| 9 | <input type="checkbox"/> |          |            | 25259.35    | 0.0022 | P   | 2.0   |

$$y = 2.8441\text{E-}004 * x + 1.7686\text{E-}006$$

$$R = 1.0000$$

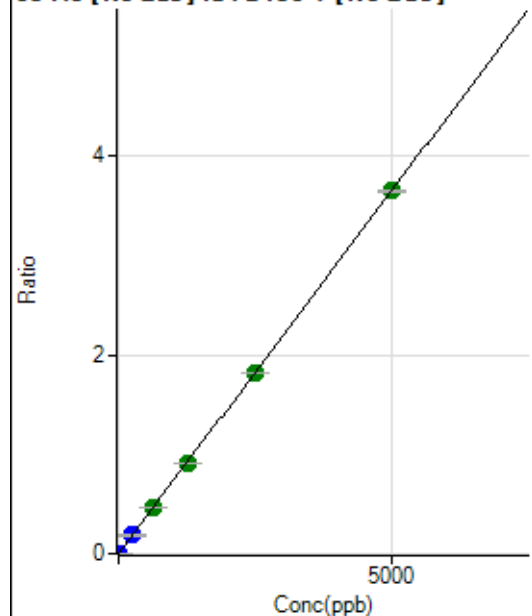
$$DL = 0.02019$$

$$BEC = 0.006219$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 80.56       | 0.0000 | P   | 21.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.897      | 44949.53    | 0.0036 | P   | 1.1  |
| 4 | <input type="checkbox"/> | 250.000  | 252.621    | 2261357.36  | 0.1846 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 625.000  | 626.547    | 5430240.57  | 0.4578 | A   | 0.4  |
| 6 | <input type="checkbox"/> | 1250.000 | 1248.792   | 10204612.21 | 0.9125 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 2500.000 | 2497.577   | 19583922.84 | 1.8250 | A   | 0.4  |
| 8 | <input type="checkbox"/> | 5000.000 | 5001.189   | 40600650.56 | 3.6544 | A   | 0.3  |
| 9 | <input type="checkbox"/> |          |            | 64340.27    | 0.0056 | P   | 1.9  |

$$y = 7.3070\text{E-}004 * x + 6.4167\text{E-}006$$

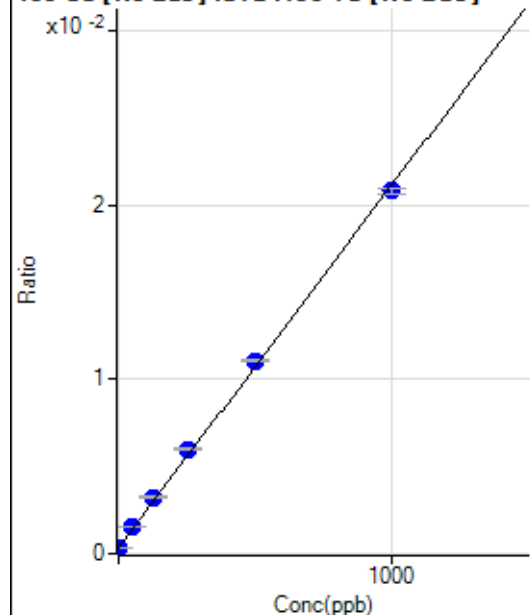
$$R = 1.0000$$

$$DL = 0.005704$$

$$BEC = 0.008782$$

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      | 5601.33   | 0.0003 | P   | 3.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 2.008      | 6182.14   | 0.0004 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 56.732     | 24466.50  | 0.0015 | P   | 2.1 |
| 5 | <input type="checkbox"/> | 125.000  | 138.838    | 51229.80  | 0.0032 | P   | 2.6 |
| 6 | <input type="checkbox"/> | 250.000  | 270.870    | 91849.67  | 0.0060 | P   | 1.5 |
| 7 | <input type="checkbox"/> | 500.000  | 515.587    | 167883.01 | 0.0111 | P   | 0.9 |
| 8 | <input type="checkbox"/> | 1000.000 | 984.922    | 325933.13 | 0.0208 | P   | 1.4 |
| 9 | <input type="checkbox"/> |          |            | 4981.63   | 0.0003 | P   | 6.1 |

$$y = 2.0787E-005 * x + 3.3923E-004$$

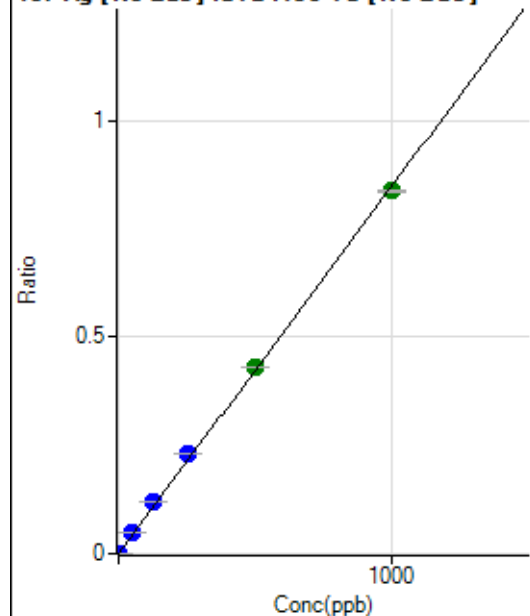
$$R = 0.9995$$

$$DL = 1.826$$

$$BEC = 16.32$$

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      | 102.78      | 0.0000 | P   | 41.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.783      | 10871.25    | 0.0007 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 57.693     | 788057.68   | 0.0489 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 142.507    | 1918966.58  | 0.1208 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 270.788    | 3531710.67  | 0.2296 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 507.518    | 6533128.71  | 0.4302 | A   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.471    | 13123047.26 | 0.8380 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1364.01     | 0.0001 | P   | 7.5  |

$$y = 8.4774E-004 * x + 6.2242E-006$$

$$R = 0.9996$$

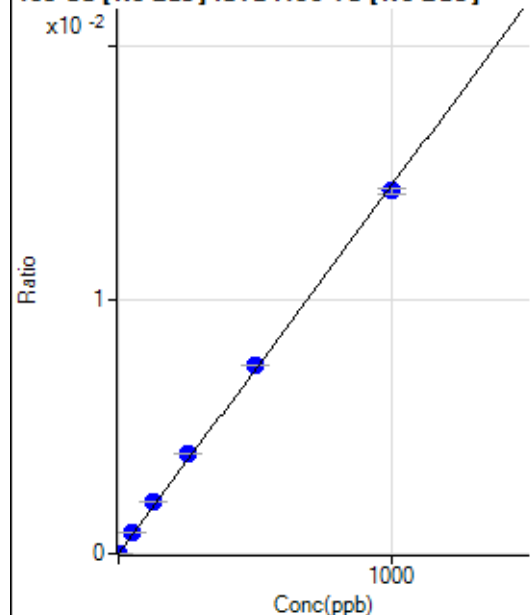
$$DL = 0.009154$$

$$BEC = 0.007342$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 9.72      | 0.0000 | P    | 24.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.106      | 269.46    | 0.0000 | P    | 10.9 |
| 4 | <input type="checkbox"/> | 50.000   | 56.677     | 13238.32  | 0.0008 | P    | 2.5  |
| 5 | <input type="checkbox"/> | 125.000  | 140.092    | 32242.51  | 0.0020 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 271.273    | 60458.94  | 0.0039 | P    | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 512.891    | 112830.60 | 0.0074 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 986.016    | 223696.91 | 0.0143 | P    | 1.6  |
| 9 | <input type="checkbox"/> |          |            | 113.89    | 0.0000 | P    | 19.2 |

$$y = 1.4486\text{E-}005 * x + 5.8856\text{E-}007$$

$$R = 0.9996$$

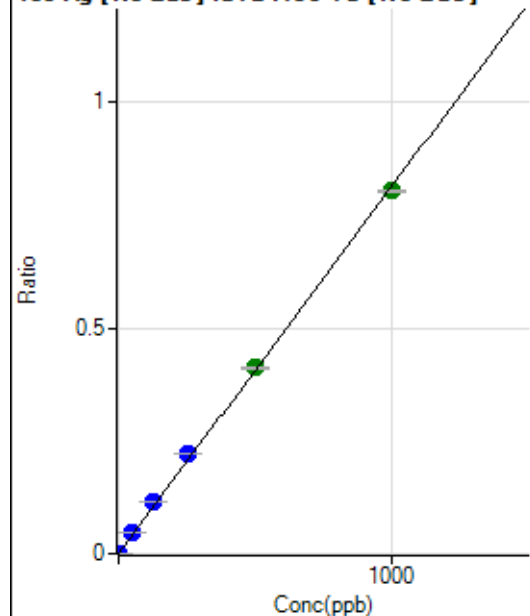
$$DL = 0.0301$$

$$BEC = 0.04063$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 36.11       | 0.0000 | P    | 53.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.845      | 11182.57    | 0.0007 | P    | 8.4  |
| 4 | <input type="checkbox"/> | 50.000   | 57.919     | 758401.65   | 0.0471 | P    | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 141.525    | 1827021.37  | 0.1150 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 271.629    | 3396193.44  | 0.2208 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 506.694    | 6253204.22  | 0.4118 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 988.784    | 12585214.95 | 0.8036 | A    | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 1336.23     | 0.0001 | P    | 11.2 |

$$y = 8.1274\text{E-}004 * x + 2.1864\text{E-}006$$

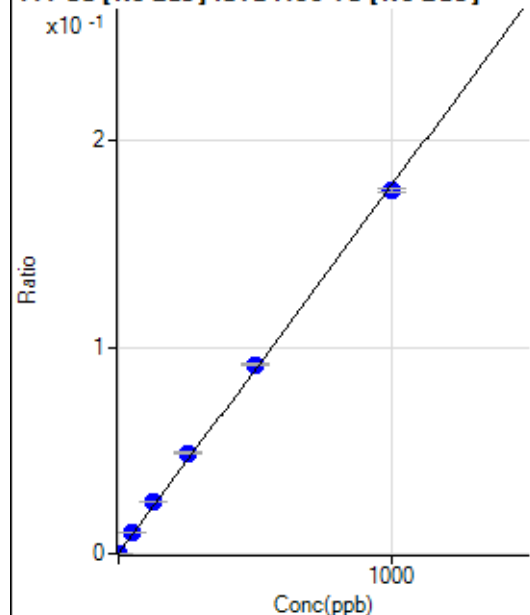
$$R = 0.9996$$

$$DL = 0.004295$$

$$BEC = 0.00269$$

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      | 1674.99    | 0.0001 | P   | 3.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.062      | 4716.42    | 0.0003 | P   | 2.8 |
| 4 | <input type="checkbox"/> | 50.000   | 56.869     | 164951.32  | 0.0102 | P   | 1.4 |
| 5 | <input type="checkbox"/> | 125.000  | 140.838    | 400375.34  | 0.0252 | P   | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 273.366    | 751196.93  | 0.0488 | P   | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 512.977    | 1390118.11 | 0.0915 | P   | 0.5 |
| 8 | <input type="checkbox"/> | 1000.000 | 985.347    | 2752289.69 | 0.1757 | P   | 1.0 |
| 9 | <input type="checkbox"/> |          |            | 2380.09    | 0.0002 | P   | 4.1 |

$$y = 1.7826\text{E-}004 * x + 1.0144\text{E-}004$$

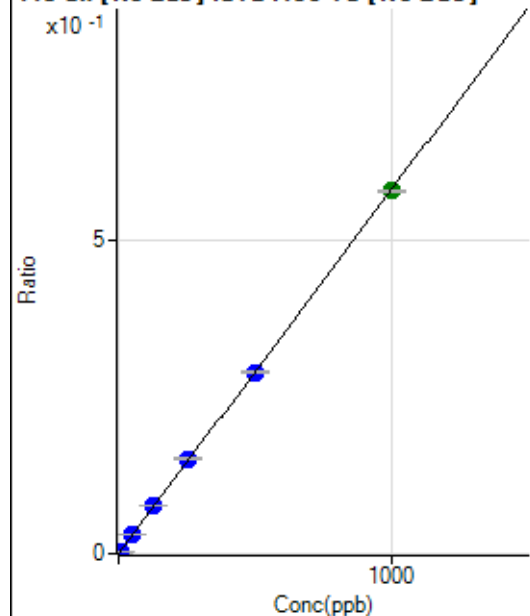
$$R = 0.9995$$

$$DL = 0.06305$$

$$BEC = 0.5691$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 519.47     | 0.0000 | P   | 6.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |     |
| 3 | <input type="checkbox"/> | 5.000    | 5.034      | 47882.33   | 0.0030 | P   | 1.1 |
| 4 | <input type="checkbox"/> | 50.000   | 53.638     | 501615.57  | 0.0311 | P   | 0.8 |
| 5 | <input type="checkbox"/> | 125.000  | 134.102    | 1235697.61 | 0.0778 | P   | 0.6 |
| 6 | <input type="checkbox"/> | 250.000  | 261.052    | 2329288.25 | 0.1514 | P   | 0.4 |
| 7 | <input type="checkbox"/> | 500.000  | 498.765    | 4392456.91 | 0.2893 | P   | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 996.535    | 9050407.23 | 0.5779 | A   | 0.4 |
| 9 | <input type="checkbox"/> |          |            | 21681.32   | 0.0014 | P   | 2.9 |

$$y = 5.7989\text{E-}004 * x + 3.1461\text{E-}005$$

$$R = 0.9999$$

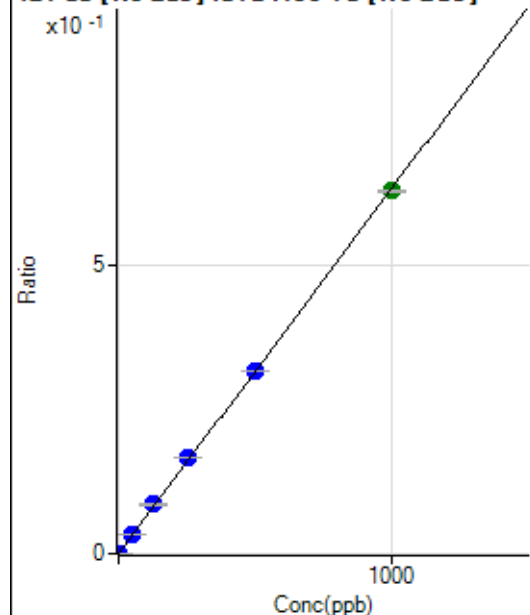
$$DL = 0.01079$$

$$BEC = 0.05425$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45      | 0.0000 | P   | 57.3 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.932      | 19870.39   | 0.0012 | P   | 1.9  |
| 4 | <input type="checkbox"/> | 50.000   | 53.661     | 546723.83  | 0.0339 | P   | 0.4  |
| 5 | <input type="checkbox"/> | 125.000  | 134.468    | 1350640.32 | 0.0850 | P   | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 262.635    | 2554887.62 | 0.1661 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 501.561    | 4816217.81 | 0.3172 | P   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.694    | 9850279.13 | 0.6290 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 13532.00   | 0.0009 | P   | 1.4  |

$$y = 6.3234\text{E-}004 * x + 2.6924\text{E-}006$$

$$R = 0.9999$$

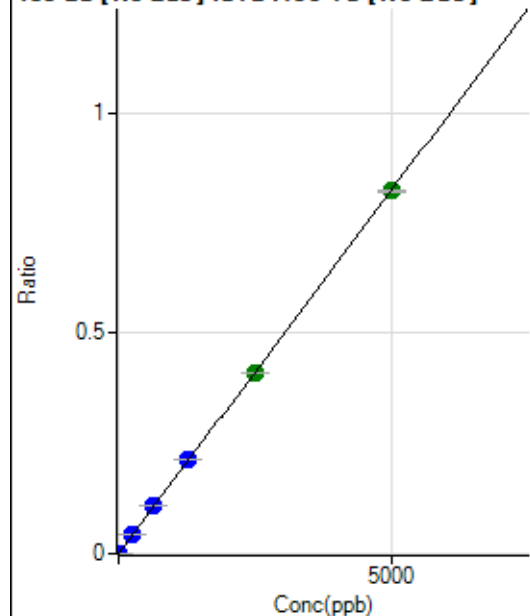
$$DL = 0.007315$$

$$BEC = 0.004258$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 22.22       | 0.0000 | P   | 43.2 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 10.000   | 10.145     | 27180.38    | 0.0017 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 250.000  | 264.314    | 702644.52   | 0.0436 | P   | 0.3  |
| 5 | <input type="checkbox"/> | 625.000  | 659.517    | 1728424.65  | 0.1088 | P   | 0.6  |
| 6 | <input type="checkbox"/> | 1250.000 | 1296.874   | 3291741.28  | 0.2140 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2486.662   | 6229970.88  | 0.4103 | A   | 0.7  |
| 8 | <input type="checkbox"/> | 5000.000 | 4989.920   | 12893548.47 | 0.8233 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 2572.56     | 0.0002 | P   | 4.2  |

$$y = 1.6500\text{E-}004 * x + 1.3455\text{E-}006$$

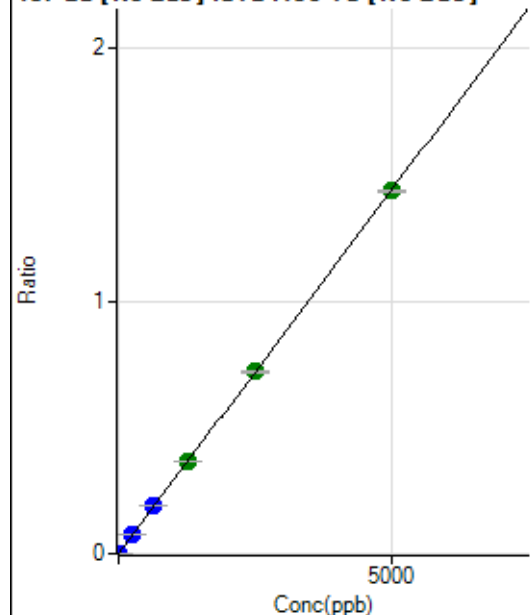
$$R = 0.9999$$

$$DL = 0.01057$$

$$BEC = 0.008155$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.67       | 0.0000 | P   | 19.9 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 10.000   | 9.983      | 46651.34    | 0.0029 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 250.000  | 265.066    | 1228845.46  | 0.0763 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 625.000  | 657.733    | 3006166.19  | 0.1893 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 1250.000 | 1269.109   | 5617833.07  | 0.3652 | A   | 0.7  |
| 7 | <input type="checkbox"/> | 2500.000 | 2500.930   | 10927228.89 | 0.7196 | A   | 0.8  |
| 8 | <input type="checkbox"/> | 5000.000 | 4989.913   | 22485955.71 | 1.4358 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 4281.39     | 0.0003 | P   | 3.5  |

$$y = 2.8775E-004 * x + 2.5232E-006$$

$$R = 1.0000$$

$$DL = 0.005248$$

$$BEC = 0.008769$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det | RSD   |
|---|--------------------------|-------|------------|---------|-------|-----|-------|
| 1 | <input type="checkbox"/> |       |            | 2.22    |       | P   | 173.2 |
| 2 | <input type="checkbox"/> |       |            |         |       |     |       |
| 3 | <input type="checkbox"/> |       |            | 4.45    |       | P   | 86.6  |
| 4 | <input type="checkbox"/> |       |            | 68.89   |       | P   | 14.8  |
| 5 | <input type="checkbox"/> |       |            | 153.34  |       | P   | 17.4  |
| 6 | <input type="checkbox"/> |       |            | 304.46  |       | P   | 11.0  |
| 7 | <input type="checkbox"/> |       |            | 564.47  |       | P   | 10.0  |
| 8 | <input type="checkbox"/> |       |            | 1195.65 |       | P   | 9.0   |
| 9 | <input type="checkbox"/> |       |            | 257.79  |       | P   | 1.5   |

**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 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 0.00   |       | P        |       |
| 4 | <input type="checkbox"/> |       |            | 5.56   |       | P        | 34.7  |
| 5 | <input type="checkbox"/> |       |            | 23.33  |       | P        | 37.8  |
| 6 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 22.9  |
| 7 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 24.1  |
| 8 | <input type="checkbox"/> |       |            | 86.67  |       | P        | 30.0  |
| 9 | <input type="checkbox"/> |       |            | 102.23 |       | P        | 14.7  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 2.78   |       | P        | 173.2 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 8.33   |       | P        | 100.0 |
| 4 | <input type="checkbox"/> |       |            | 22.22  |       | P        | 21.6  |
| 5 | <input type="checkbox"/> |       |            | 41.67  |       | P        | 52.9  |
| 6 | <input type="checkbox"/> |       |            | 75.00  |       | P        | 11.1  |
| 7 | <input type="checkbox"/> |       |            | 119.45 |       | P        | 39.7  |
| 8 | <input type="checkbox"/> |       |            | 238.90 |       | P        | 19.2  |
| 9 | <input type="checkbox"/> |       |            | 280.57 |       | P        | 28.2  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD   |
|---|--------------------------|-------|------------|--------|-------|----------|-------|
| 1 | <input type="checkbox"/> |       |            | 3.33   |       | P        | 0.0   |
| 2 | <input type="checkbox"/> |       |            |        |       |          |       |
| 3 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 173.2 |
| 4 | <input type="checkbox"/> |       |            | 18.89  |       | P        | 36.7  |
| 5 | <input type="checkbox"/> |       |            | 31.11  |       | P        | 6.2   |
| 6 | <input type="checkbox"/> |       |            | 52.22  |       | P        | 20.5  |
| 7 | <input type="checkbox"/> |       |            | 94.45  |       | P        | 8.9   |
| 8 | <input type="checkbox"/> |       |            | 203.34 |       | P        | 10.2  |
| 9 | <input type="checkbox"/> |       |            | 78.89  |       | P        | 29.7  |

**160 Gd [No Gas] Noavailable calibration poin\_**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 47.2 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 17.3 |
| 4 | <input type="checkbox"/> |       |            | 75.01  |       | P        | 38.5 |
| 5 | <input type="checkbox"/> |       |            | 86.12  |       | P        | 5.6  |
| 6 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 15.7 |
| 7 | <input type="checkbox"/> |       |            | 88.89  |       | P        | 44.3 |
| 8 | <input type="checkbox"/> |       |            | 105.56 |       | P        | 18.2 |
| 9 | <input type="checkbox"/> |       |            | 172.23 |       | P        | 11.2 |

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

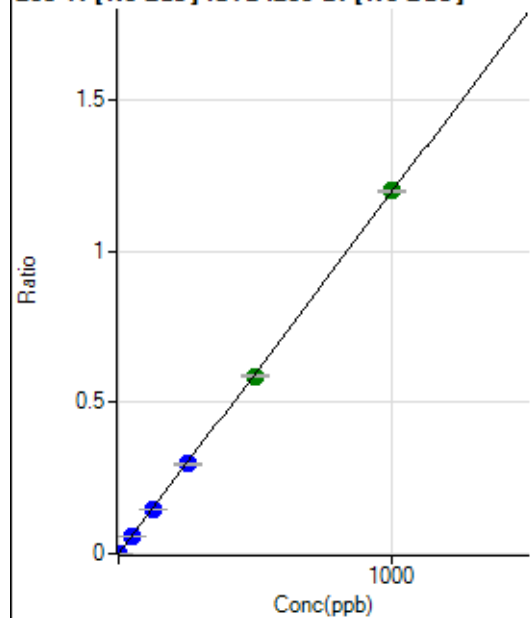
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 237.78 |       | P        | 11.3 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 220.01 |       | P        | 12.4 |
| 4 | <input type="checkbox"/> |       |            | 245.56 |       | P        | 12.3 |
| 5 | <input type="checkbox"/> |       |            | 223.34 |       | P        | 14.7 |
| 6 | <input type="checkbox"/> |       |            | 193.34 |       | P        | 9.0  |
| 7 | <input type="checkbox"/> |       |            | 205.56 |       | P        | 4.7  |
| 8 | <input type="checkbox"/> |       |            | 246.67 |       | P        | 15.0 |
| 9 | <input type="checkbox"/> |       |            | 233.34 |       | P        | 7.1  |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 63.89 |       | P        | 78.6 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 61.11 |       | P        | 41.7 |
| 4 | <input type="checkbox"/> |       |            | 47.23 |       | P        | 27.0 |
| 5 | <input type="checkbox"/> |       |            | 63.89 |       | P        | 49.4 |
| 6 | <input type="checkbox"/> |       |            | 36.11 |       | P        | 48.0 |
| 7 | <input type="checkbox"/> |       |            | 52.78 |       | P        | 39.7 |
| 8 | <input type="checkbox"/> |       |            | 61.11 |       | P        | 55.1 |
| 9 | <input type="checkbox"/> |       |            | 66.67 |       | P        | 33.1 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det | RSD  |
|---|--------------------------|-------|------------|-------|-------|-----|------|
| 1 | <input type="checkbox"/> |       |            | 16.67 |       | P   | 69.3 |
| 2 | <input type="checkbox"/> |       |            |       |       |     |      |
| 3 | <input type="checkbox"/> |       |            | 26.67 |       | P   | 33.1 |
| 4 | <input type="checkbox"/> |       |            | 26.67 |       | P   | 25.0 |
| 5 | <input type="checkbox"/> |       |            | 30.00 |       | P   | 40.1 |
| 6 | <input type="checkbox"/> |       |            | 25.56 |       | P   | 19.9 |
| 7 | <input type="checkbox"/> |       |            | 33.33 |       | P   | 36.1 |
| 8 | <input type="checkbox"/> |       |            | 30.00 |       | P   | 11.1 |
| 9 | <input type="checkbox"/> |       |            | 35.56 |       | P   | 5.4  |

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 119.45      | 0.0000 | P   | 32.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.869      | 11435.92    | 0.0010 | P   | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.038     | 627692.77   | 0.0585 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 123.871    | 1562476.11  | 0.1478 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 248.388    | 3045767.06  | 0.2964 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 491.711    | 5853907.99  | 0.5867 | A   | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.737   | 11930520.41 | 1.1989 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 12030.96    | 0.0014 | P   | 2.4  |

$$y = 0.0012 * x + 1.0697E-005$$

$$R = 0.9999$$

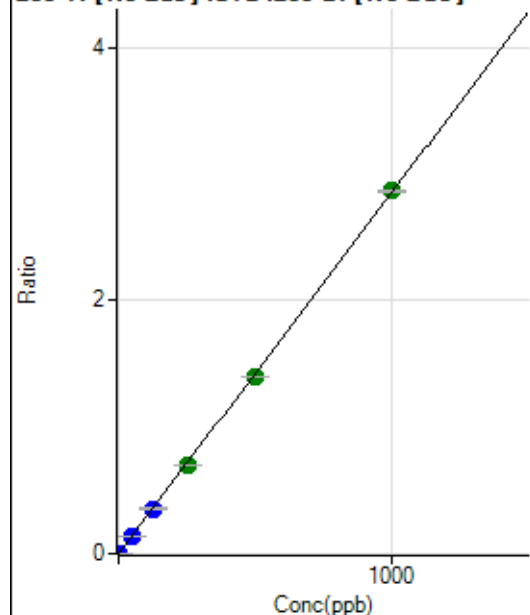
$$DL = 0.008653$$

$$BEC = 0.008965$$

Weight: <None>

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      | 427.80      | 0.0000 | P   | 14.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.893      | 28214.19    | 0.0026 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 49.400     | 1511091.62  | 0.1409 | P   | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 124.984    | 3767201.00  | 0.3564 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 245.090    | 7181455.80  | 0.6988 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 492.221    | 14002426.01 | 1.4035 | A   | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 1005.149   | 28519790.22 | 2.8659 | A   | 0.4  |
| 9 | <input type="checkbox"/> |          |            | 28606.68    | 0.0032 | P   | 3.7  |

$$y = 0.0029 * x + 3.8335E-005$$

$$R = 0.9999$$

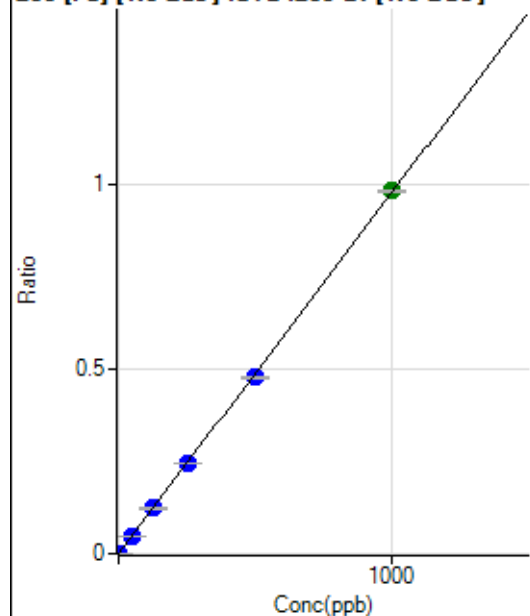
$$DL = 0.005849$$

$$BEC = 0.01345$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 292.60     | 0.0000 | P   | 21.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.848      | 9314.62    | 0.0009 | P   | 2.3  |
| 4 | <input type="checkbox"/> | 50.000   | 49.608     | 519336.33  | 0.0484 | P   | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 125.435    | 1293762.49 | 0.1224 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 250.012    | 2506597.80 | 0.2439 | P   | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 488.496    | 4754971.17 | 0.4766 | P   | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 1005.714   | 9763799.52 | 0.9812 | A   | 0.6  |
| 9 | <input type="checkbox"/> |          |            | 48799.00   | 0.0055 | P   | 1.3  |

$$y = 9.7556E-004 * x + 2.6220E-005$$

$$R = 0.9999$$

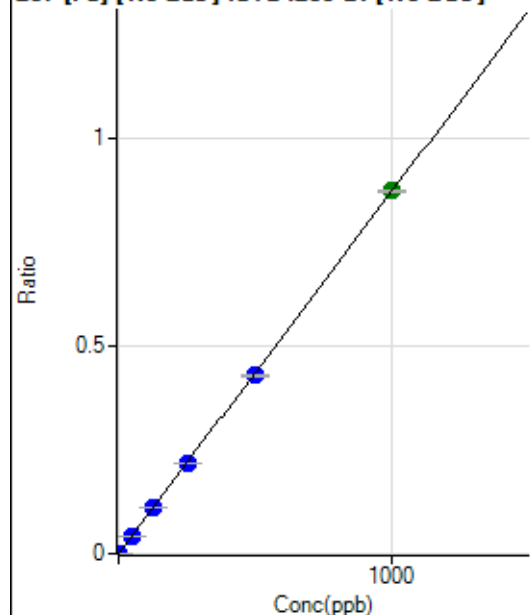
$$DL = 0.01709$$

$$BEC = 0.02688$$

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      | 242.60     | 0.0000 | P   | 17.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.855      | 8364.00    | 0.0008 | P   | 0.6  |
| 4 | <input type="checkbox"/> | 50.000   | 49.789     | 465253.65  | 0.0434 | P   | 1.0  |
| 5 | <input type="checkbox"/> | 125.000  | 125.508    | 1155530.18 | 0.1093 | P   | 0.5  |
| 6 | <input type="checkbox"/> | 250.000  | 251.040    | 2246721.77 | 0.2186 | P   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 493.879    | 4291260.16 | 0.4301 | P   | 1.0  |
| 8 | <input type="checkbox"/> | 1000.000 | 1002.748   | 8689891.80 | 0.8732 | A   | 0.2  |
| 9 | <input type="checkbox"/> |          |            | 40467.61   | 0.0046 | P   | 1.5  |

$$y = 8.7083\text{E-}004 * x + 2.1737\text{E-}005$$

$$R = 1.0000$$

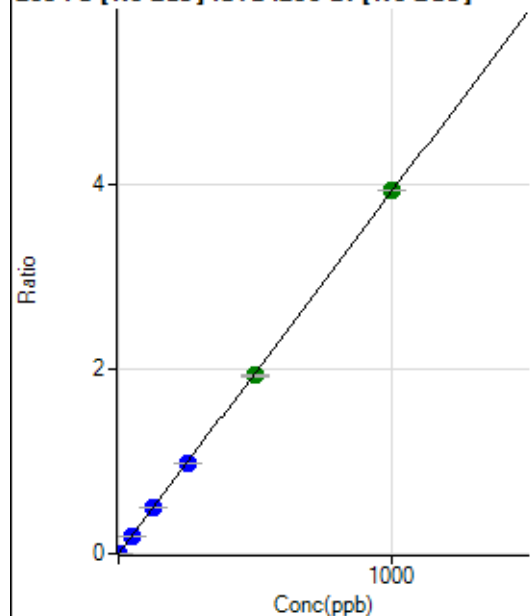
$$DL = 0.01333$$

$$BEC = 0.02496$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD |
|---|--------------------------|----------|------------|-------------|--------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1088.93     | 0.0001 | P   | 8.7 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.860      | 37783.24    | 0.0035 | P   | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 49.765     | 2088783.53  | 0.1948 | P   | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 125.680    | 5197458.26  | 0.4917 | P   | 0.4 |
| 6 | <input type="checkbox"/> | 250.000  | 250.909    | 10086378.60 | 0.9815 | P   | 0.7 |
| 7 | <input type="checkbox"/> | 500.000  | 493.106    | 19245015.83 | 1.9289 | A   | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 1003.147   | 39048425.12 | 3.9240 | A   | 0.2 |
| 9 | <input type="checkbox"/> |          |            | 189876.48   | 0.0215 | P   | 0.5 |

$$y = 0.0039 * x + 9.7552\text{E-}005$$

$$R = 1.0000$$

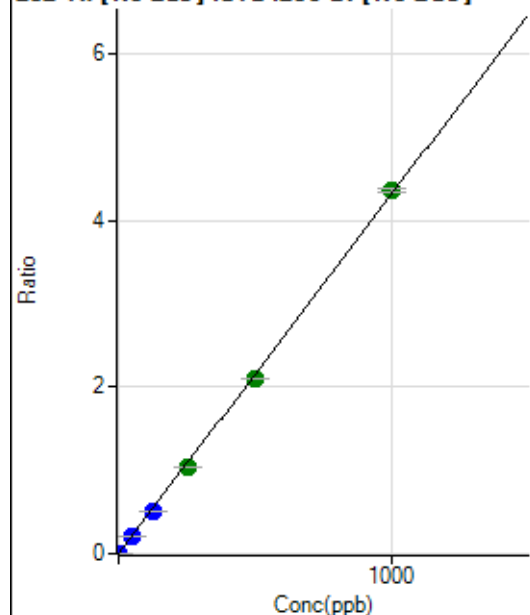
$$DL = 0.006479$$

$$BEC = 0.02494$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 77.78       | 0.0000 | P   | 13.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.823      | 38802.50    | 0.0036 | P   | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 46.381     | 2143904.50  | 0.1999 | P   | 1.4  |
| 5 | <input type="checkbox"/> | 125.000  | 118.484    | 5397645.20  | 0.5106 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 239.253    | 10595999.54 | 1.0311 | A   | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 488.522    | 21005584.49 | 2.1054 | A   | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 1009.421   | 43291521.34 | 4.3504 | A   | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 8008.24     | 0.0009 | P   | 6.5  |

$$y = 0.0043 * x + 6.9648E-006$$

$$R = 0.9998$$

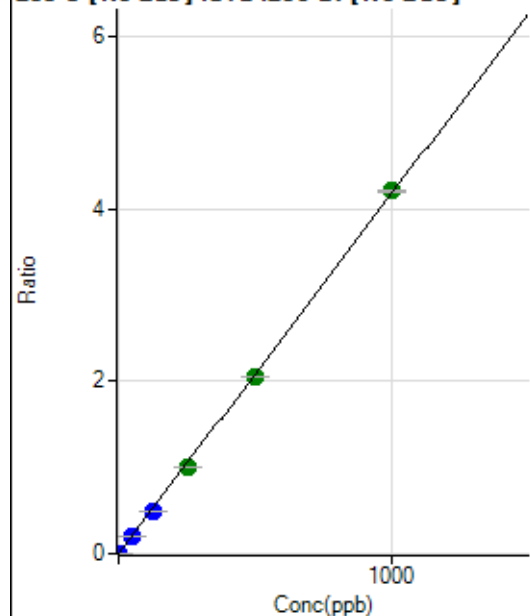
$$DL = 0.0006763$$

$$BEC = 0.001616$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 30.56       | 0.0000 | P   | 31.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.817      | 37313.19    | 0.0034 | P   | 1.2  |
| 4 | <input type="checkbox"/> | 50.000   | 46.655     | 2091522.99  | 0.1950 | P   | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 119.462    | 5277922.30  | 0.4993 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 239.472    | 10285563.77 | 1.0009 | A   | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 490.308    | 20446502.19 | 2.0493 | A   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1008.338   | 41940134.97 | 4.2146 | A   | 0.5  |
| 9 | <input type="checkbox"/> |          |            | 4803.91     | 0.0005 | P   | 3.2  |

$$y = 0.0042 * x + 2.7343E-006$$

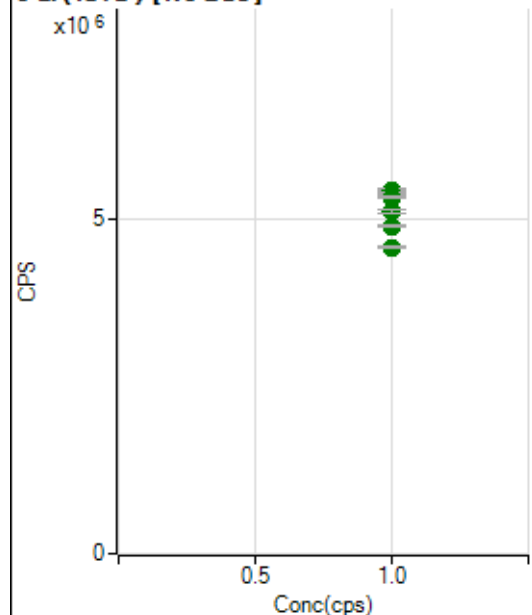
$$R = 0.9999$$

$$DL = 0.000608$$

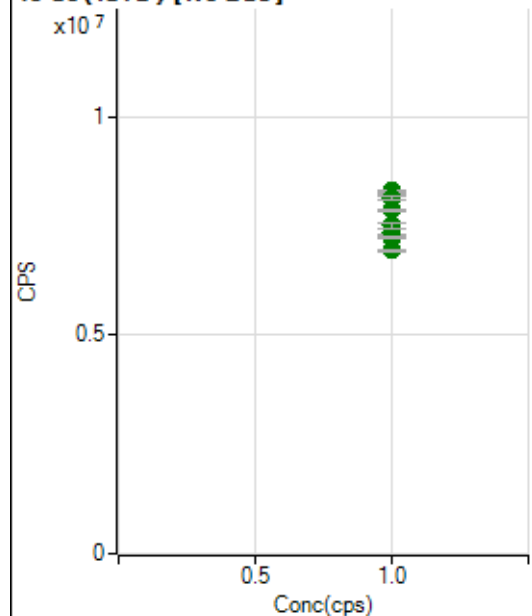
$$BEC = 0.0006542$$

Weight: &lt;None&gt;

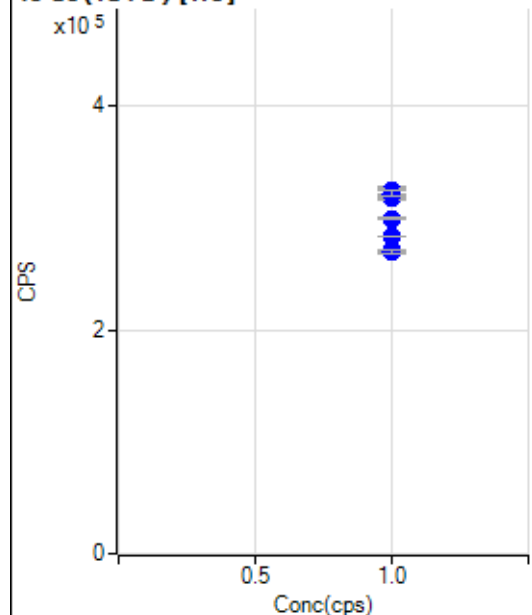
Min Conc: 0

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

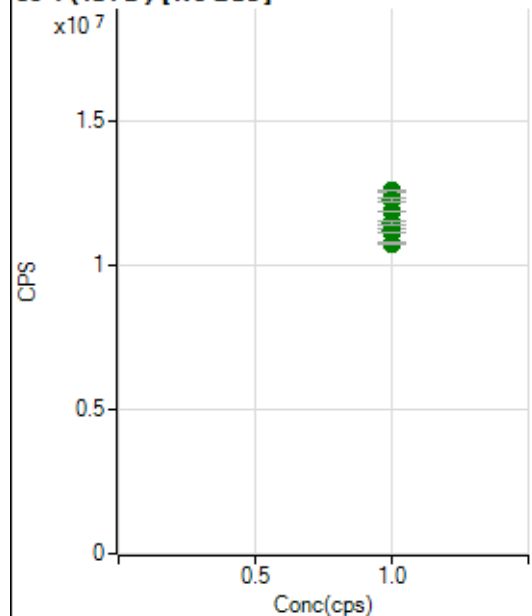
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5414625.47 |       | A   | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5430802.21 |       | A   | 1.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5395794.43 |       | A   | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5330666.93 |       | A   | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5131830.31 |       | A   | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4891732.22 |       | A   | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4904728.64 |       | A   | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4588543.37 |       | A   | 0.8 |

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

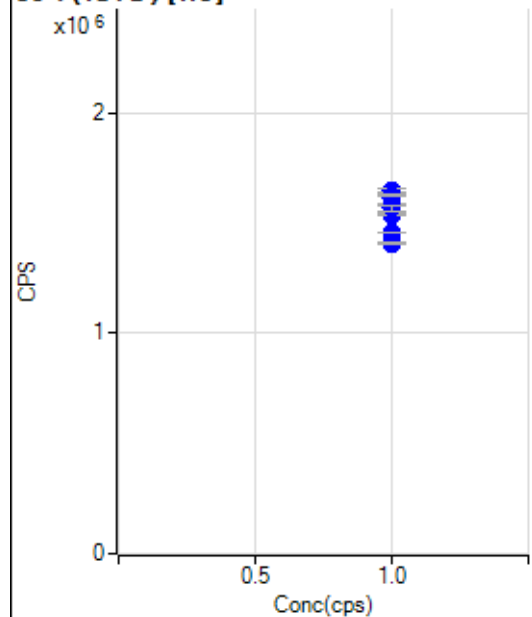
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8252600.44 |       | A   | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8302373.10 |       | A   | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8125080.30 |       | A   | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7862563.28 |       | A   | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7358866.92 |       | A   | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6937809.79 |       | A   | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7231980.72 |       | A   | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7516693.05 |       | A   | 1.9 |

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

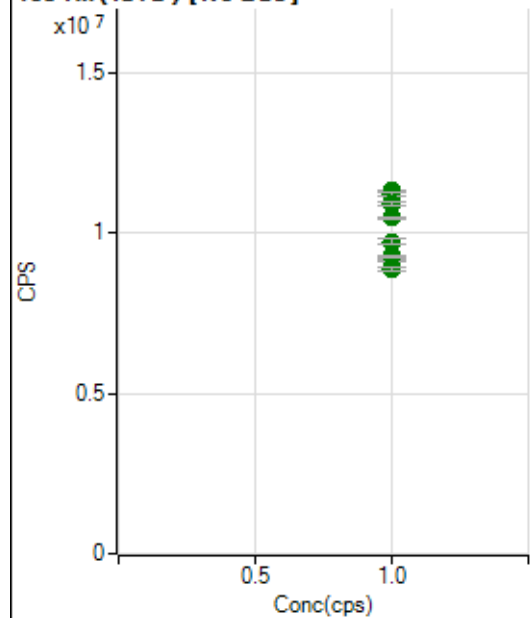
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-----------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 321698.34 |       | P   | 3.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 324051.46 |       | P   | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 316977.39 |       | P   | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 298956.20 |       | P   | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 270571.69 |       | P   | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 270021.43 |       | P   | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 283408.99 |       | P   | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 322003.16 |       | P   | 2.0 |

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

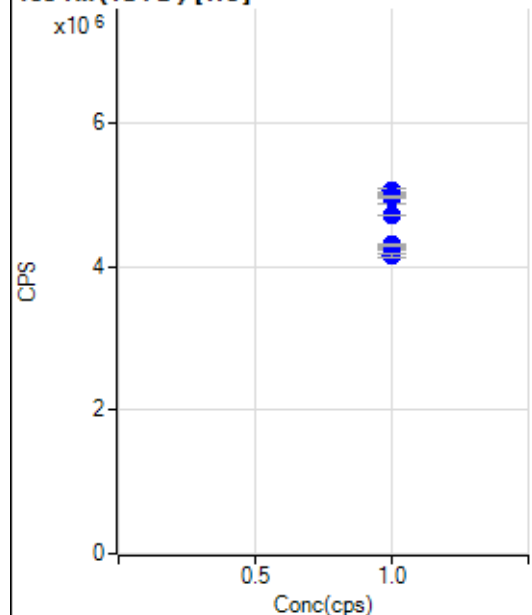
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12556137.87 |       | A   | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 12539621.76 |       | A   | 0.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12251344.40 |       | A   | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11861017.32 |       | A   | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11183341.50 |       | A   | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10731185.53 |       | A   | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 11110255.11 |       | A   | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 11457099.41 |       | A   | 1.5 |

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

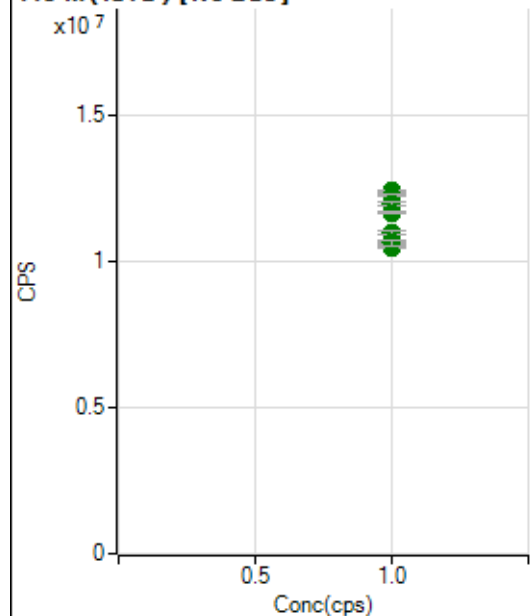
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1614962.77 |       | P   | 3.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1646712.07 |       | P   | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1625301.40 |       | P   | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1538996.30 |       | P   | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1412784.98 |       | P   | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1409557.96 |       | P   | 0.8 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1459645.57 |       | P   | 0.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1570179.82 |       | P   | 1.6 |

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

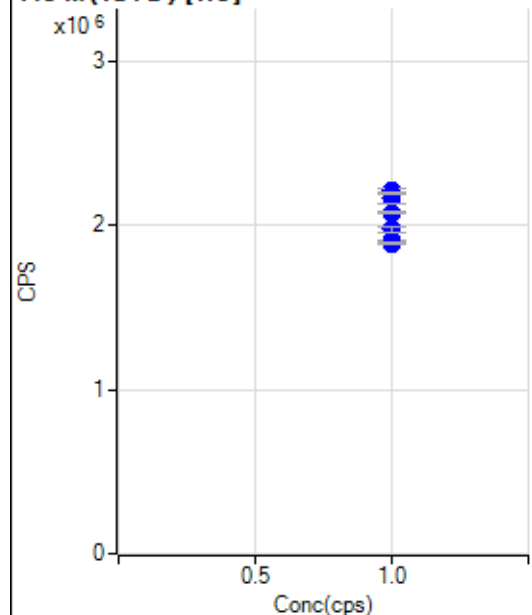
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11324210.93 |       | A   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 11222526.55 |       | A   | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10946881.49 |       | A   | 1.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10486174.97 |       | A   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9743507.95  |       | A   | 1.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9164593.78  |       | A   | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9285908.80  |       | A   | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8900781.36  |       | A   | 1.3 |

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

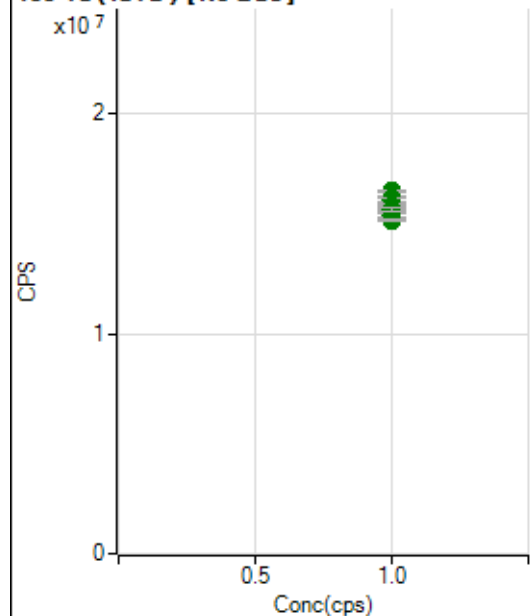
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4957579.37 |       | P   | 2.9 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5055326.49 |       | P   | 1.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4978016.94 |       | P   | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4721259.37 |       | P   | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4312647.16 |       | P   | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4246008.55 |       | P   | 1.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4295041.29 |       | P   | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4155825.46 |       | P   | 1.7 |

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

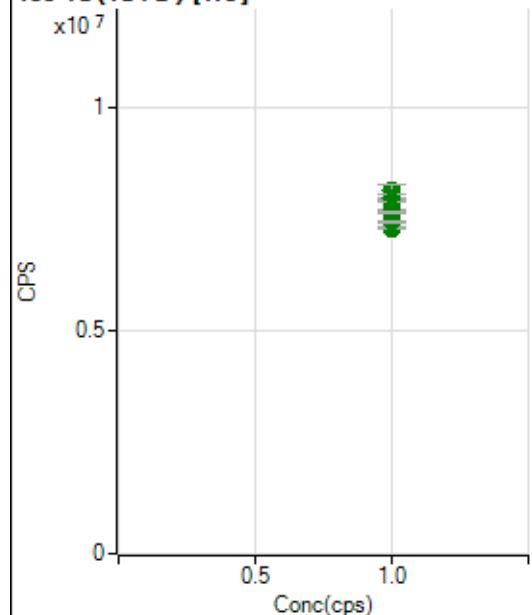
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12437805.90 |       | A   | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 12276704.87 |       | A   | 0.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 12018201.84 |       | A   | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 11678492.08 |       | A   | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10986412.23 |       | A   | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10502555.96 |       | A   | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10654536.41 |       | A   | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10652052.05 |       | A   | 1.4 |

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

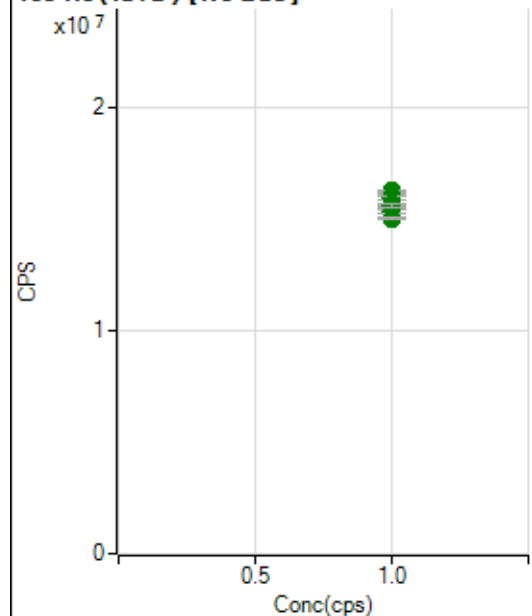
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2171959.35 |       | P   | 3.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 2211502.72 |       | P   | 1.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2193680.80 |       | P   | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2078594.79 |       | P   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1912678.11 |       | P   | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1890810.55 |       | P   | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1898026.34 |       | P   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1977825.05 |       | P   | 1.9 |

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

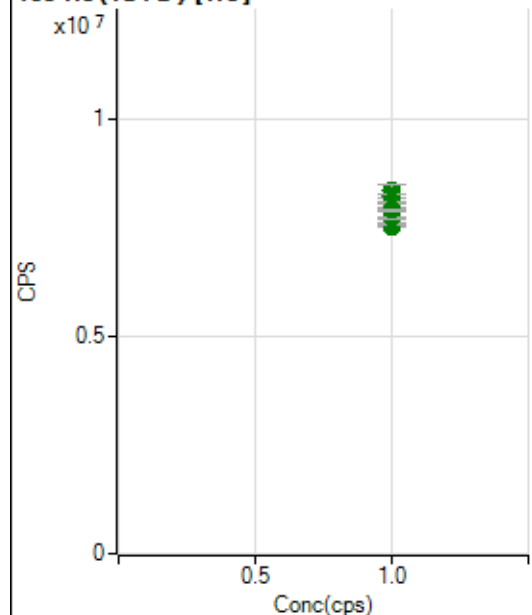
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 16512906.14 |       | A   | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 16226540.31 |       | A   | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 16111470.04 |       | A   | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15883768.24 |       | A   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15384275.47 |       | A   | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15184970.74 |       | A   | 0.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15660600.74 |       | A   | 0.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 15656532.96 |       | A   | 1.1 |

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

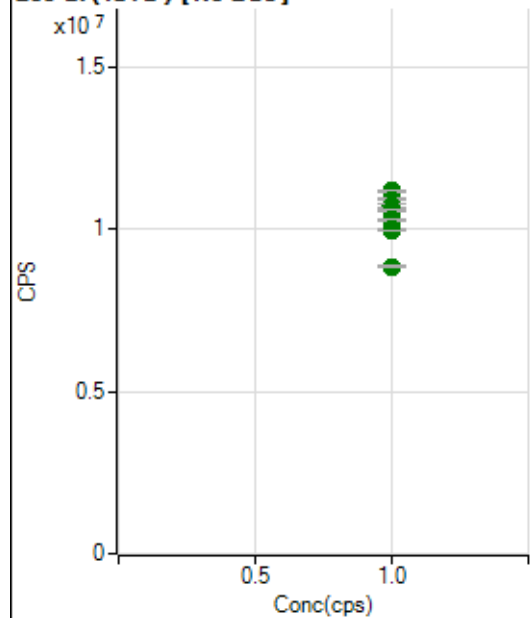
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8124197.38 |       | A   | 3.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 7979327.45 |       | A   | 1.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 7881103.42 |       | A   | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7692125.79 |       | A   | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7277975.79 |       | A   | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7306012.11 |       | A   | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7445109.26 |       | A   | 0.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7646692.18 |       | A   | 0.6 |

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

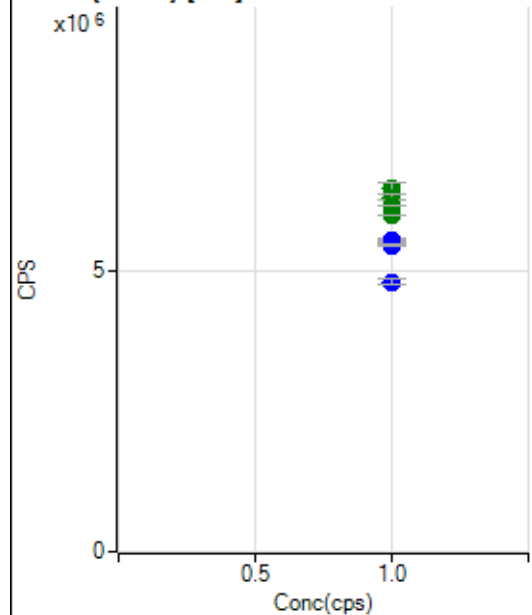
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 16248446.72 |       | A   | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 16038493.24 |       | A   | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 15934044.80 |       | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 15657234.03 |       | A   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 15326965.27 |       | A   | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 15013363.53 |       | A   | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 15647139.06 |       | A   | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 15592388.54 |       | A   | 0.8 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 8347550.43 |       | A   | 3.8 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 8217603.83 |       | A   | 1.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8086069.39 |       | A   | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 7941054.46 |       | A   | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 7529251.62 |       | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 7587408.99 |       | A   | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 7733669.19 |       | A   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7914406.82 |       | A   | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det | RSD |
|---|--------------------------|-------|------------|-------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 11164449.69 |       | A   | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10913418.86 |       | A   | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10725877.06 |       | A   | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10570432.76 |       | A   | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10276203.18 |       | A   | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9976984.57  |       | A   | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9951273.39  |       | A   | 0.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8829986.74  |       | A   | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det | RSD |
|---|--------------------------|-------|------------|------------|-------|-----|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6454286.92 |       | A   | 3.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |     |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6309339.49 |       | A   | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6154163.52 |       | A   | 0.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5988684.84 |       | A   | 0.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5544951.10 |       | P   | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5490893.39 |       | P   | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5445702.83 |       | P   | 0.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4803025.73 |       | P   | 1.6 |

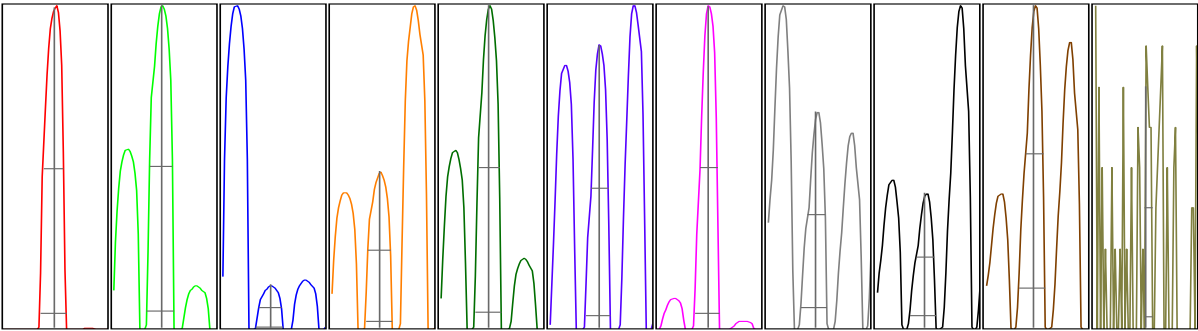
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7120318-MS.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |        |          |            |        |
|----------|--------|----------|------------|--------|
| Mass     | Count  | RSD%     | RSD%       | RSD%   |
|          | (Mean) | (Actual) | (Required) | (Flag) |
| 9        | 14371  | 0.79     | 5.00       |        |
| 24       | 116964 | 0.63     | 5.00       |        |
| 25       | 15467  | 0.44     | 5.00       |        |
| 26       | 17613  | 0.67     | 5.00       |        |
| 59       | 83856  | 0.59     | 5.00       |        |
| 113      | 10965  | 1.00     | 5.00       |        |
| 115      | 130456 | 1.50     | 5.00       |        |
| 206      | 34243  | 0.62     | 5.00       |        |
| 207      | 31925  | 0.30     | 5.00       |        |
| 208      | 74173  | 0.17     | 5.00       |        |
| 220      | 0      | 60.01    |            |        |

| Mass | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
|      | Count       | Count       | Count       | Count       | Count       |
| 9    | 14514       | 14417       | 14377       | 14201       | 14348       |
| 24   | 117789      | 117635      | 116898      | 116108      | 116390      |
| 25   | 15505       | 15568       | 15413       | 15437       | 15411       |
| 26   | 17704       | 17734       | 17626       | 17438       | 17562       |
| 59   | 84215       | 84432       | 83886       | 83195       | 83549       |
| 113  | 11034       | 11086       | 10888       | 10818       | 11000       |
| 115  | 131901      | 132820      | 130546      | 128689      | 128322      |
| 206  | 34286       | 34493       | 34244       | 33904       | 34286       |
| 207  | 31819       | 32050       | 31915       | 31992       | 31848       |
| 208  | 74194       | 74053       | 74220       | 74053       | 74345       |
| 220  | 0           | 0           | 0           | 0           | 0           |

Integration Time [sec] = 0.1



| Mass | Peak   | Axis     | Axis          | Axis   | Width-X% | Width-X%   | Width-    |
|------|--------|----------|---------------|--------|----------|------------|-----------|
|      | Height | (Actual) | (Required)    | (Flag) | (Actual) | (Required) | X% (Flag) |
| 9    | 25212  | 9.00     | 8.9 - 9.1     |        | 0.774    | 0.900      |           |
| 24   | 189671 | 23.95    | 23.9 - 24.1   |        | 0.785    | 0.900      |           |
| 25   | 25383  | 24.95    | 24.9 - 25.1   |        | 0.786    | 0.900      |           |
| 26   | 29021  | 25.95    | 25.9 - 26.1   |        | 0.784    | 0.900      |           |
| 59   | 146199 | 58.95    | 58.9 - 59.1   |        | 0.779    | 0.900      |           |
| 113  | 21464  | 113.00   | 112.9 - 113.1 |        | 0.729    | 0.900      |           |
| 115  | 257230 | 115.00   | 114.9 - 115.1 |        | 0.725    | 0.900      |           |
| 206  | 65493  | 205.95   | 205.9 - 206.1 |        | 0.752    | 0.900      |           |
| 207  | 59427  | 206.95   | 206.9 - 207.1 |        | 0.756    | 0.900      |           |
| 208  | 141775 | 207.95   | 207.9 - 208.1 |        | 0.757    | 0.900      |           |
| 220  | 0      | 220.05   | -             |        | 0.245    |            |           |

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

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|-------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0   | V    | Omega Lens    | 5.9   | V    | Deflect       | 13.8  | V    |
| Extract 2     | -90.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -50   | V    | Cell Exit     | -50   | V    |               |       |      |

## Cell Parameters ##

| ParameterName | Value | Unit   | ParameterName | Value | Unit | ParameterName         | Value | Unit  |
|---------------|-------|--------|---------------|-------|------|-----------------------|-------|-------|
| Use Gas       | No    |        | OctP Bias     | -8.0  | V    | Energy Discrimination |       | 5.0 V |
| He Flow       | 0.0   | mL/min | OctP RF       | 190   | V    |                       |       |       |

[He]

| Mass | Count  | RSD%     | RSD%       |
|------|--------|----------|------------|
|      | (Mean) | (Actual) | (Required) |
| 59   | 19504  | 0.32     |            |
| 89   | 24946  | 0.49     |            |
| 205  | 30356  | 0.34     |            |

| Mass | Replicate 1 | Replicate 2 | Replicate 3 | Replicate 4 | Replicate 5 |
|------|-------------|-------------|-------------|-------------|-------------|
|      | Count       | Count       | Count       | Count       | Count       |
| 59   | 19468       | 19601       | 19468       | 19528       | 19453       |
| 89   | 24998       | 25078       | 24803       | 25025       | 24828       |
| 205  | 30359       | 30519       | 30249       | 30363       | 30292       |

Integration Time [sec] = 0.1

Tune Parameters

## Plasma Paramters ##

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

## Lenses Parameters ##

| ParameterName | Value  | Unit | ParameterName | Value | Unit | ParameterName | Value | Unit |
|---------------|--------|------|---------------|-------|------|---------------|-------|------|
| Extract 1     | 0.0    | V    | Omega Lens    | 7.0   | V    | Deflect       | 1.6   | V    |
| Extract 2     | -115.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -60    | V    | Cell Exit     | -60   | V    |               |       |      |

## Cell Parameters ##

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