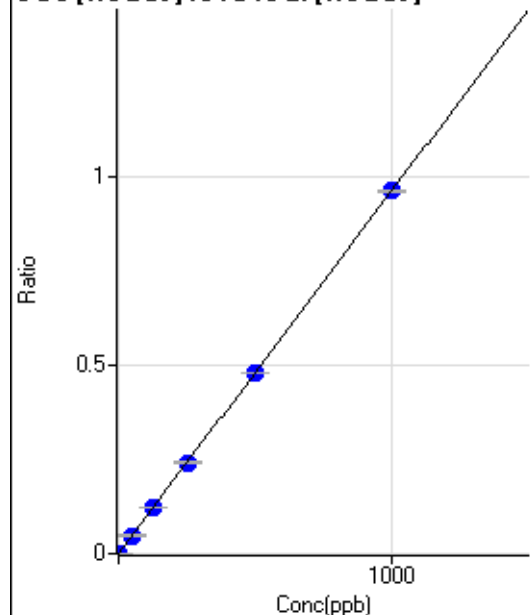


Batch Folder: D:\ICP-MS Data\P7062217.b\  
Analysis File: P7062217.batch.bin  
DA Date-Time: 2017-06-23 09:42:48  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 003CALB.d          | S00         | 2017-06-22 11:57:47 |
| 2     |                    |             |                     |
| 3     | 005CALS.d          | S02         | 2017-06-22 12:05:55 |
| 4     | 006CALS.d          | S03         | 2017-06-22 12:09:42 |
| 5     | 007CALS.d          | S04         | 2017-06-22 12:13:42 |
| 6     | 008CALS.d          | S05         | 2017-06-22 12:17:23 |
| 7     | 009CALS.d          | S06         | 2017-06-22 12:21:00 |
| 8     | 010CALS.d          | S07         | 2017-06-22 12:24:33 |
| 9     | 011CALS.d          | S08         | 2017-06-22 12:28:00 |

9 Be [NoGas] ISTD:6 Li [NoGas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 62.97      | 0.0000 | P    | 10.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.940      | 1598.28    | 0.0009 | P    | 7.8  |
| 4 | <input type="checkbox"/> | 50.000   | 50.254     | 82048.86   | 0.0484 | P    | 2.1  |
| 5 | <input type="checkbox"/> | 125.000  | 126.980    | 206909.17  | 0.1223 | P    | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 251.887    | 407388.72  | 0.2425 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 497.056    | 805835.51  | 0.4785 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.740   | 1593994.77 | 0.9634 | P    | 0.8  |
| 9 | <input type="checkbox"/> |          |            | 1081.55    | 0.0007 | P    | 10.6 |

$$y = 9.6264\text{E-}004 * x + 3.7022\text{E-}005$$

$$R = 1.0000$$

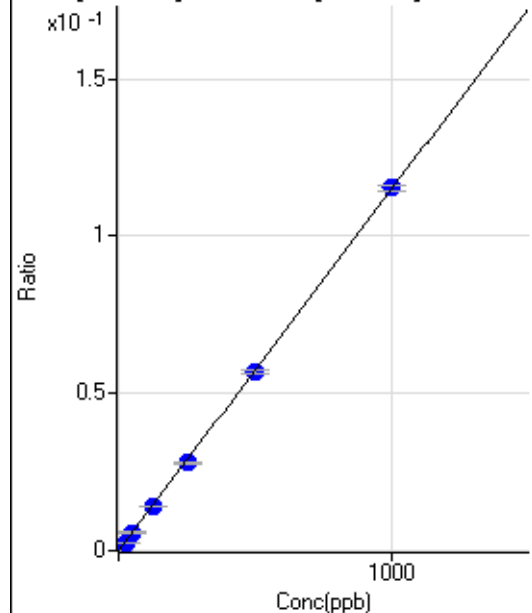
$$DL = 0.01223$$

$$BEC = 0.03846$$

Weight: &lt;None&gt;

Min Conc: 0

10 B [NoGas] ISTD:6 Li [NoGas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 130.56    | 0.0001 | P    | 29.7 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 25.000   | 20.946     | 4209.08   | 0.0025 | P    | 4.7  |
| 4 | <input type="checkbox"/> | 50.000   | 48.884     | 9634.01   | 0.0057 | P    | 8.0  |
| 5 | <input type="checkbox"/> | 125.000  | 122.292    | 23869.52  | 0.0141 | P    | 0.4  |
| 6 | <input type="checkbox"/> | 250.000  | 243.899    | 47129.79  | 0.0281 | P    | 1.8  |
| 7 | <input type="checkbox"/> | 500.000  | 494.556    | 95671.22  | 0.0568 | P    | 1.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1004.743   | 190832.56 | 0.1153 | P    | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 9475.56   | 0.0060 | P    | 6.3  |

$$y = 1.1472\text{E-}004 * x + 7.6666\text{E-}005$$

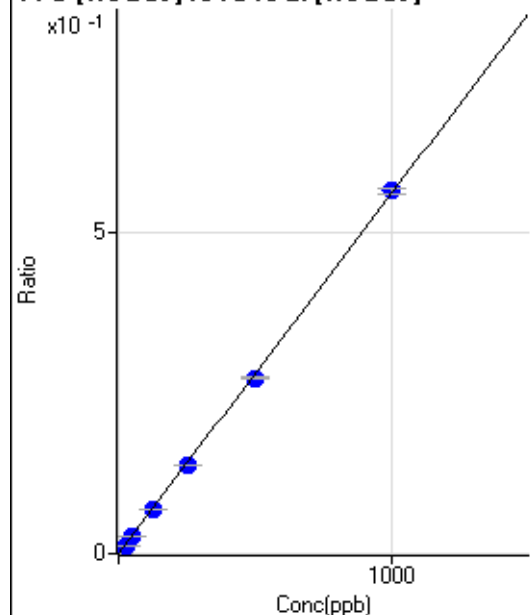
$$R = 1.0000$$

$$DL = 0.5946$$

$$BEC = 0.6683$$

Weight: &lt;None&gt;

Min Conc: 0

**11 B [NoGas] ISTD:6 Li [NoGas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 627.82    | 0.0004 | P    | 8.0 |
| 2 | <input type="checkbox"/> | 2.500    |            |           |        |      |     |
| 3 | <input type="checkbox"/> | 25.000   | 20.508     | 20083.51  | 0.0118 | P    | 2.2 |
| 4 | <input type="checkbox"/> | 50.000   | 47.935     | 46026.41  | 0.0272 | P    | 2.5 |
| 5 | <input type="checkbox"/> | 125.000  | 121.129    | 115181.47 | 0.0681 | P    | 1.3 |
| 6 | <input type="checkbox"/> | 250.000  | 246.623    | 232162.54 | 0.1382 | P    | 1.0 |
| 7 | <input type="checkbox"/> | 500.000  | 487.781    | 459714.18 | 0.2730 | P    | 0.3 |
| 8 | <input type="checkbox"/> | 1000.000 | 1007.653   | 932402.70 | 0.5635 | P    | 1.8 |
| 9 | <input type="checkbox"/> |          |            | 46725.91  | 0.0296 | P    | 5.5 |

$$y = 5.5889\text{E-}004 * x + 3.6892\text{E-}004$$

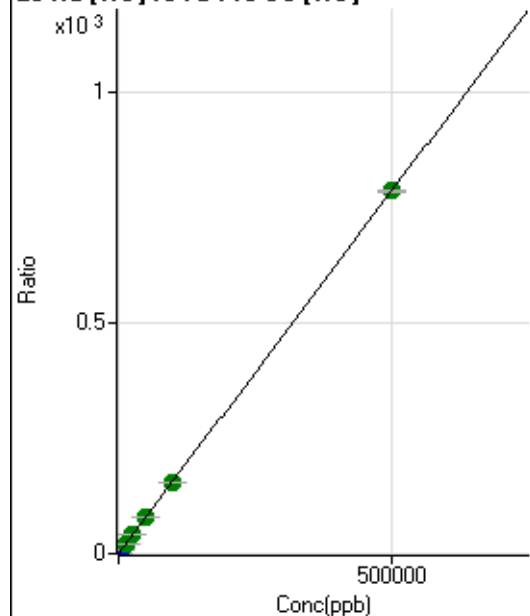
$$R = 0.9999$$

$$DL = 0.1593$$

$$BEC = 0.6601$$

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      | 11204.67    | 0.0456   | P    | 2.4 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 465.621    | 187970.09   | 0.7763   | P    | 3.9 |
| 4 | <input type="checkbox"/> | 5000.000  | 5208.482   | 2012881.67  | 8.2194   | P    | 2.5 |
| 5 | <input type="checkbox"/> | 12500.000 | 12766.365  | 4965954.67  | 20.0802  | A    | 0.8 |
| 6 | <input type="checkbox"/> | 25000.000 | 25315.396  | 9954924.01  | 39.7738  | A    | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 49268.687  | 19771471.28 | 77.3644  | A    | 0.9 |
| 8 | <input type="checkbox"/> | 100000.00 | 97958.428  | 40024546.38 | 153.7747 | A    | 2.3 |
| 9 | <input type="checkbox"/> | 500000.00 | 500456.96  | 214479986.7 | 785.4278 | A    | 0.6 |

$$y = 0.0016 * x + 0.0456$$

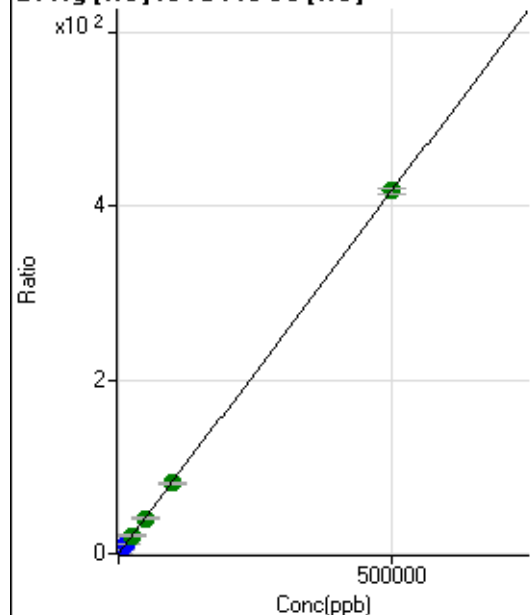
$$R = 1.0000$$

$$DL = 2.07$$

$$BEC = 29.06$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 786.17      | 0.0032   | P   | 11.6 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |     |      |
| 3 | <input type="checkbox"/> | 500.000   | 448.792    | 91506.88    | 0.3779   | P   | 3.8  |
| 4 | <input type="checkbox"/> | 5000.000  | 5135.840   | 1050901.78  | 4.2913   | P   | 2.5  |
| 5 | <input type="checkbox"/> | 12500.000 | 12734.109  | 2630147.28  | 10.6353  | P   | 0.9  |
| 6 | <input type="checkbox"/> | 25000.000 | 25163.381  | 5259363.92  | 21.0129  | A   | 0.9  |
| 7 | <input type="checkbox"/> | 50000.000 | 49024.921  | 10461661.95 | 40.9356  | A   | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 97085.462  | 21100305.34 | 81.0628  | A   | 1.8  |
| 9 | <input type="checkbox"/> | 500000.00 | 500665.08  | 114150572.0 | 418.0237 | A   | 1.4  |

$$y = 8.3493\text{E-}004 * x + 0.0032$$

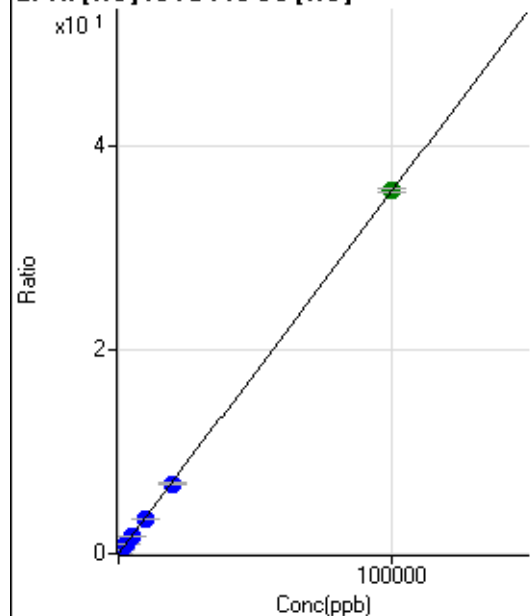
$$R = 1.0000$$

$$DL = 1.337$$

$$BEC = 3.832$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio   | Det | RSD  |
|---|--------------------------|-----------|------------|------------|---------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 38.89      | 0.0002  | P   | 24.7 |
| 2 | <input type="checkbox"/> | 2.000     |            |            |         |     |      |
| 3 | <input type="checkbox"/> | 20.000    | 16.958     | 1497.37    | 0.0062  | P   | 2.4  |
| 4 | <input type="checkbox"/> | 1000.000  | 1014.914   | 88212.78   | 0.3603  | P   | 3.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2482.971   | 217911.36  | 0.8811  | P   | 0.5  |
| 6 | <input type="checkbox"/> | 5000.000  | 4917.793   | 436772.00  | 1.7450  | P   | 0.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 9629.999   | 873255.77  | 3.4170  | P   | 0.5  |
| 8 | <input type="checkbox"/> | 20000.000 | 19209.078  | 1774071.33 | 6.8158  | P   | 2.0  |
| 9 | <input type="checkbox"/> | 100000.00 | 100199.57  | 9708251.43 | 35.5521 | A   | 0.9  |

$$y = 3.5481\text{E-}004 * x + 1.5824\text{E-}004$$

$$R = 1.0000$$

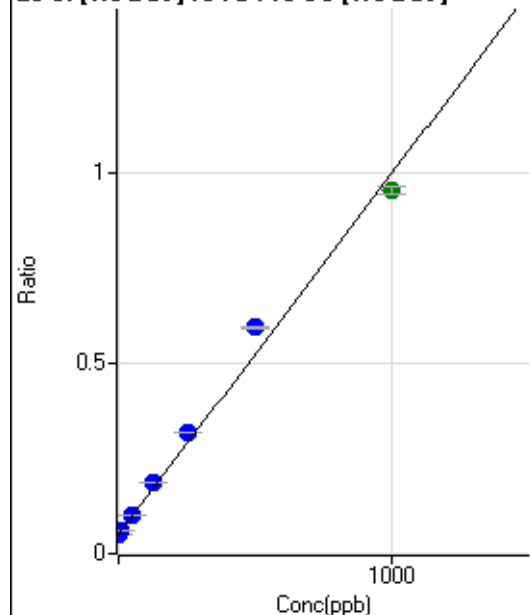
$$DL = 0.3305$$

$$BEC = 0.446$$

Weight: &lt;None&gt;

Min Conc: 0

28 Si [NoGas] ISTD:45 Sc [NoGas]



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 284738.13  | 0.0499 | P    | 0.7 |
| 2 | <input type="checkbox"/> | 1.000    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 10.000   | 9.069      | 328437.80  | 0.0585 | P    | 1.0 |
| 4 | <input type="checkbox"/> | 50.000   | 55.623     | 576195.28  | 0.1028 | P    | 1.2 |
| 5 | <input type="checkbox"/> | 125.000  | 144.104    | 1046229.40 | 0.1869 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 284.218    | 1816225.00 | 0.3200 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 573.261    | 3392238.99 | 0.5947 | P    | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 952.155    | 5463059.80 | 0.9549 | A    | 2.2 |
| 9 | <input type="checkbox"/> |          |            | 670591.57  | 0.1135 | P    | 1.9 |

$$y = 9.5043\text{E-}004 * x + 0.0499$$

$$R = 0.9950$$

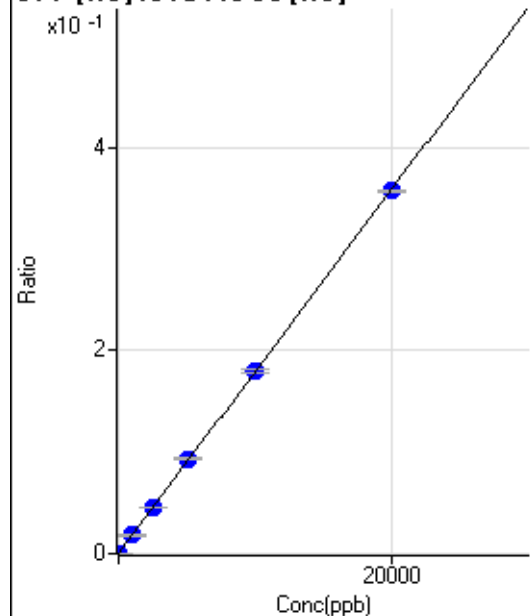
$$DL = 1.117$$

$$BEC = 52.5$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | -3.290     | 52.78    | 0.0002 | P    | 32.8 |
| 2 | <input type="checkbox"/> | 0.000     |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 0.000     | 3.290      | 80.56    | 0.0003 | P    | 12.5 |
| 4 | <input type="checkbox"/> | 1000.000  | 1021.400   | 4548.14  | 0.0186 | P    | 7.5  |
| 5 | <input type="checkbox"/> | 2500.000  | 2554.728   | 11393.67 | 0.0461 | P    | 0.7  |
| 6 | <input type="checkbox"/> | 5000.000  | 5192.774   | 23369.22 | 0.0934 | P    | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 10028.562  | 46013.44 | 0.1801 | P    | 2.2  |
| 8 | <input type="checkbox"/> | 20000.000 | 19929.615  | 93081.99 | 0.3575 | P    | 0.9  |
| 9 | <input type="checkbox"/> |           |            | 108.34   | 0.0004 | P    | 7.6  |

$$y = 1.7927\text{E-}005 * x + 2.7371\text{E-}004$$

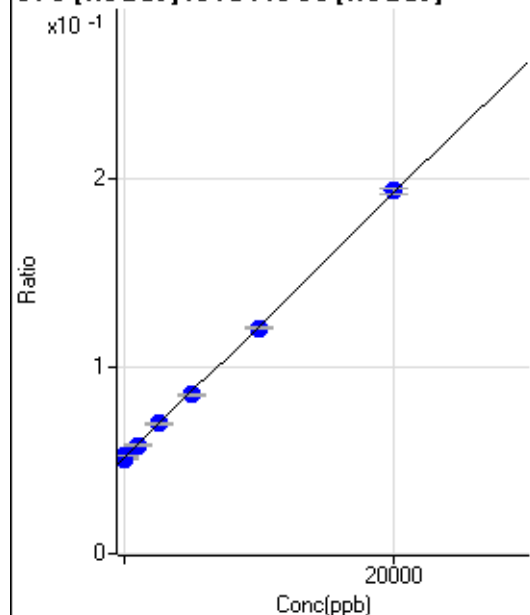
$$R = 0.9999$$

$$DL = 9.368$$

$$BEC = 15.27$$

Weight: &lt;None&gt;

Min Conc: 0

**34 S [NoGas] ISTD:45 Sc [NoGas]**

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -93.006    | 289459.77  | 0.0507 | P        | 1.4 |
| 2 | <input type="checkbox"/> | 0.000     |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 0.000     | 93.006     | 292093.18  | 0.0520 | P        | 0.6 |
| 4 | <input type="checkbox"/> | 1000.000  | 921.310    | 324611.23  | 0.0579 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 2500.000  | 2564.074   | 389138.18  | 0.0695 | P        | 0.7 |
| 6 | <input type="checkbox"/> | 5000.000  | 4724.307   | 481034.24  | 0.0848 | P        | 0.6 |
| 7 | <input type="checkbox"/> | 10000.000 | 9809.030   | 688338.66  | 0.1207 | P        | 0.1 |
| 8 | <input type="checkbox"/> | 20000.000 | 20160.334  | 1108904.91 | 0.1938 | P        | 1.6 |
| 9 | <input type="checkbox"/> |           |            | 308738.95  | 0.0522 | P        | 0.8 |

$$y = 7.0646E-006 * x + 0.0514$$

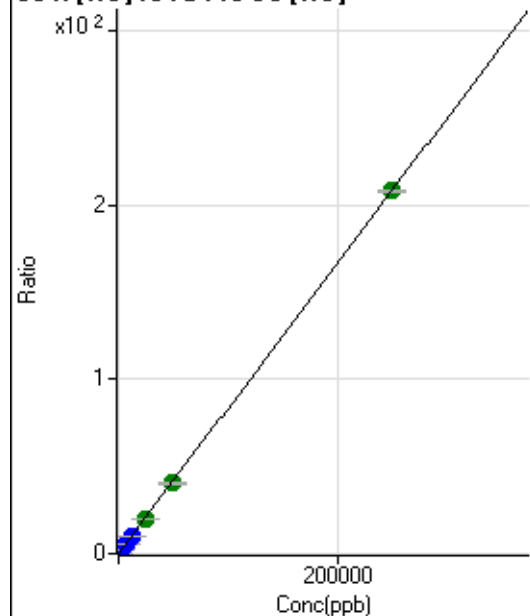
R = 0.9998

DL = 215.8

BEC = 7274

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 26196.20    | 0.1066   | P        | 3.9 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |          |          |     |
| 3 | <input type="checkbox"/> | 500.000   | 446.762    | 115864.37   | 0.4784   | P        | 3.1 |
| 4 | <input type="checkbox"/> | 2500.000  | 2504.537   | 536584.26   | 2.1910   | P        | 2.2 |
| 5 | <input type="checkbox"/> | 6250.000  | 6214.189   | 1305337.85  | 5.2783   | P        | 0.5 |
| 6 | <input type="checkbox"/> | 12500.000 | 12448.540  | 2619766.68  | 10.4667  | P        | 0.4 |
| 7 | <input type="checkbox"/> | 25000.000 | 24364.003  | 5209216.96  | 20.3832  | A        | 0.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 48706.736  | 10578149.54 | 40.6421  | A        | 2.6 |
| 9 | <input type="checkbox"/> | 250000.00 | 250325.78  | 56918176.27 | 208.4369 | A        | 0.9 |

$$y = 8.3224E-004 * x + 0.1066$$

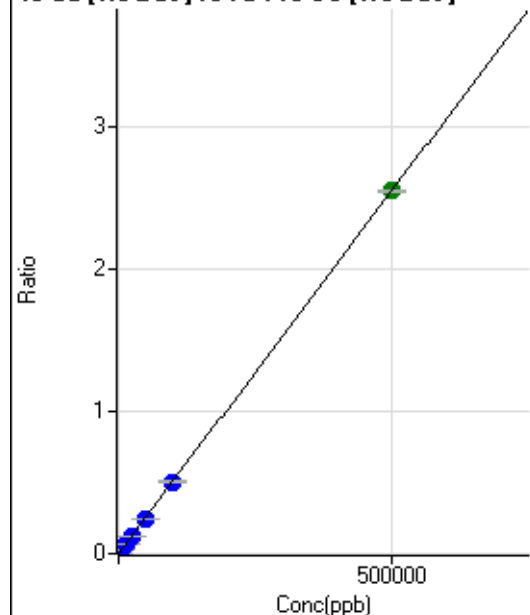
R = 1.0000

DL = 15.11

BEC = 128.1

Weight: &lt;None&gt;

Min Conc: 0

**43 Ca [NoGas] ISTD:45 Sc [NoGas]**

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 261.12      | 0.0000 | P    | 11.0 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 500.000   | 421.450    | 12322.26    | 0.0022 | P    | 1.1  |
| 4 | <input type="checkbox"/> | 5000.000  | 4946.612   | 141723.48   | 0.0253 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 12500.000 | 12488.306  | 356896.07   | 0.0637 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 25000.000 | 24604.508  | 712492.88   | 0.1255 | P    | 0.1  |
| 7 | <input type="checkbox"/> | 50000.000 | 48823.893  | 1420665.52  | 0.2491 | P    | 0.6  |
| 8 | <input type="checkbox"/> | 100000.00 | 98968.627  | 2888542.17  | 0.5049 | P    | 1.7  |
| 9 | <input type="checkbox"/> | 500000.00 | 500344.56  | 15083017.87 | 2.5521 | A    | 0.4  |

$$y = 5.1007\text{E-}006 * x + 4.5754\text{E-}005$$

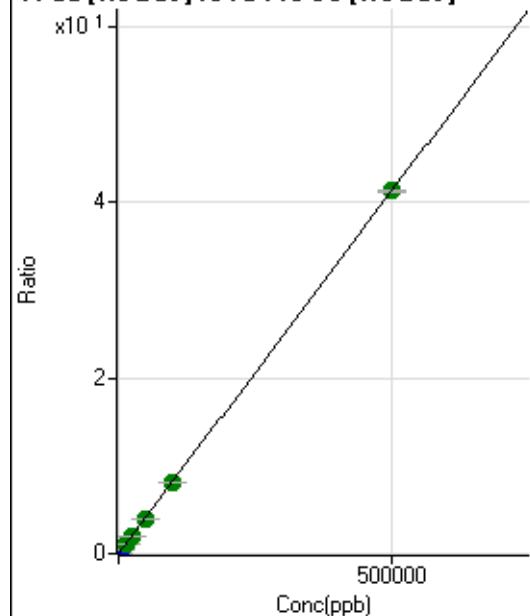
$$R = 1.0000$$

$$DL = 2.949$$

$$BEC = 8.97$$

Weight: &lt;None&gt;

Min Conc: 0

**44 Ca [NoGas] ISTD:45 Sc [NoGas]**

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 9773.28     | 0.0017  | P    | 0.8 |
| 2 | <input type="checkbox"/> | 50.000    |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 500.000   | 431.004    | 209171.37   | 0.0373  | P    | 0.7 |
| 4 | <input type="checkbox"/> | 5000.000  | 4956.479   | 2302229.65  | 0.4106  | P    | 0.7 |
| 5 | <input type="checkbox"/> | 12500.000 | 12501.841  | 5784105.42  | 1.0331  | A    | 0.5 |
| 6 | <input type="checkbox"/> | 25000.000 | 24617.359  | 11534701.82 | 2.0326  | A    | 1.2 |
| 7 | <input type="checkbox"/> | 50000.000 | 48637.051  | 22895165.79 | 4.0141  | A    | 0.4 |
| 8 | <input type="checkbox"/> | 100000.00 | 98178.996  | 46349469.79 | 8.1012  | A    | 2.1 |
| 9 | <input type="checkbox"/> | 500000.00 | 500520.08  | 244044758.2 | 41.2933 | A    | 0.6 |

$$y = 8.2497\text{E-}005 * x + 0.0017$$

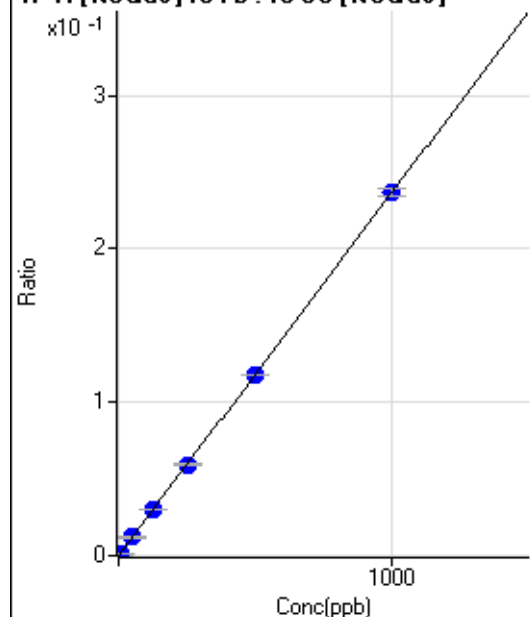
$$R = 1.0000$$

$$DL = 0.5243$$

$$BEC = 20.76$$

Weight: &lt;None&gt;

Min Conc: 0

**47 Ti [NoGas] ISTD : 45 Sc [NoGas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 147.23     | 0.0000 | P        | 13.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.268      | 5806.94    | 0.0010 | P        | 4.1  |
| 4 | <input type="checkbox"/> | 50.000   | 50.342     | 66871.95   | 0.0119 | P        | 1.8  |
| 5 | <input type="checkbox"/> | 125.000  | 128.135    | 169744.07  | 0.0303 | P        | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 251.087    | 337003.25  | 0.0594 | P        | 1.1  |
| 7 | <input type="checkbox"/> | 500.000  | 497.588    | 671082.35  | 0.1177 | P        | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.529   | 1353429.46 | 0.2366 | P        | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 2717.00    | 0.0005 | P        | 28.1 |

$$y = 2.3641\text{E-}004 * x + 2.5787\text{E-}005$$

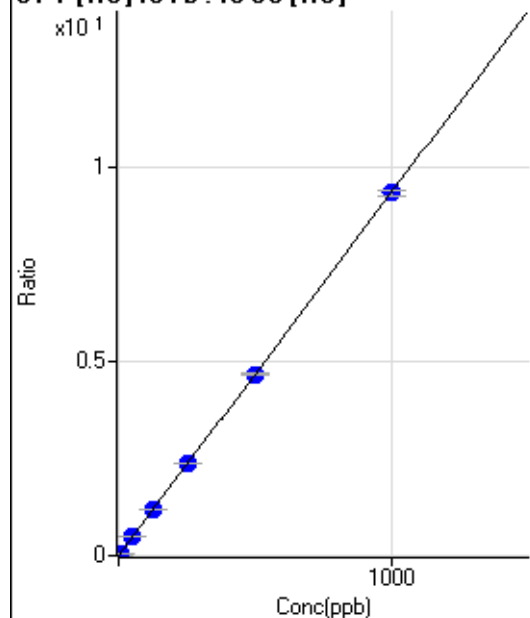
$$R = 1.0000$$

$$DL = 0.04435$$

$$BEC = 0.1091$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.89       | 0.0000 | P        | 57.3 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.608      | 10463.87   | 0.0432 | P        | 1.7  |
| 4 | <input type="checkbox"/> | 50.000   | 51.175     | 117365.21  | 0.4793 | P        | 2.8  |
| 5 | <input type="checkbox"/> | 125.000  | 127.600    | 295518.09  | 1.1950 | P        | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 253.735    | 594739.31  | 2.3762 | P        | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 500.104    | 1196882.33 | 4.6833 | P        | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.632    | 2434256.39 | 9.3518 | P        | 1.8  |
| 9 | <input type="checkbox"/> |          |            | 1372.31    | 0.0050 | P        | 6.7  |

$$y = 0.0094 * x + 3.6164\text{E-}005$$

$$R = 1.0000$$

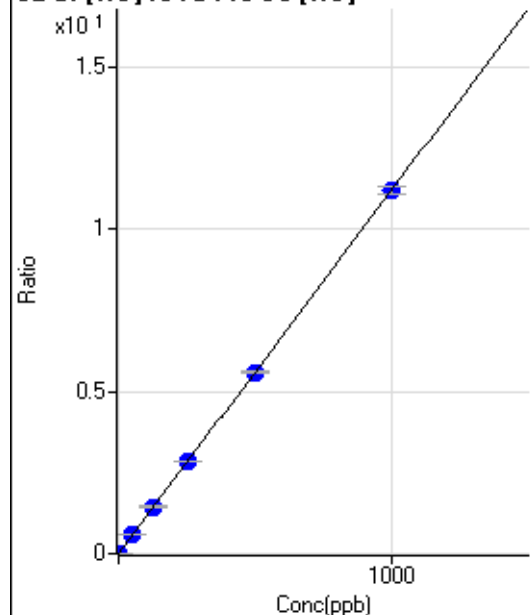
$$DL = 0.006634$$

$$BEC = 0.003862$$

Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 535.57     | 0.0022  | P        | 3.3 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |          |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.030      | 6034.66    | 0.0249  | P        | 6.6 |
| 4 | <input type="checkbox"/> | 50.000   | 52.576     | 144827.59  | 0.5915  | P        | 3.2 |
| 5 | <input type="checkbox"/> | 125.000  | 129.428    | 359285.49  | 1.4528  | P        | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 255.211    | 716491.46  | 2.8626  | P        | 0.6 |
| 7 | <input type="checkbox"/> | 500.000  | 499.457    | 1431195.76 | 5.6001  | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.286    | 2912930.86 | 11.1911 | P        | 2.0 |
| 9 | <input type="checkbox"/> |          |            | 72631.36   | 0.2660  | P        | 1.5 |

$$y = 0.0112 * x + 0.0022$$

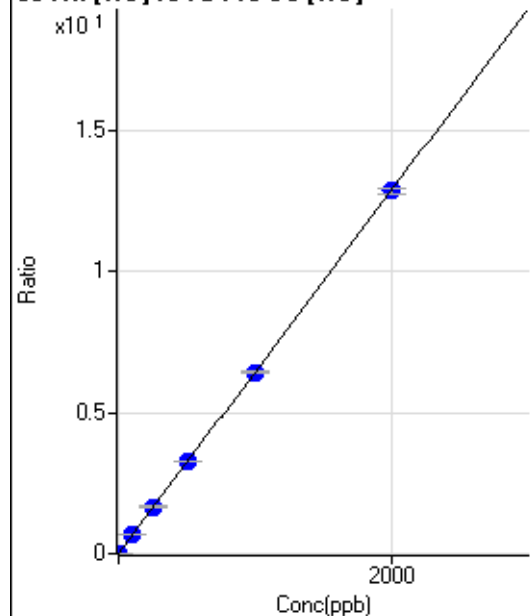
$$R = 1.0000$$

$$DL = 0.01898$$

$$BEC = 0.1945$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1513.44    | 0.0062  | P        | 5.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.814      | 2758.08    | 0.0114  | P        | 6.8 |
| 4 | <input type="checkbox"/> | 100.000  | 104.681    | 166588.53  | 0.6802  | P        | 2.3 |
| 5 | <input type="checkbox"/> | 250.000  | 258.001    | 412372.57  | 1.6675  | P        | 0.7 |
| 6 | <input type="checkbox"/> | 500.000  | 510.129    | 823723.43  | 3.2910  | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1000.000 | 998.997    | 1645534.90 | 6.4389  | P        | 0.6 |
| 8 | <input type="checkbox"/> | 2000.000 | 1996.735   | 3348296.20 | 12.8635 | P        | 1.9 |
| 9 | <input type="checkbox"/> |          |            | 14104.74   | 0.0517  | P        | 1.2 |

$$y = 0.0064 * x + 0.0062$$

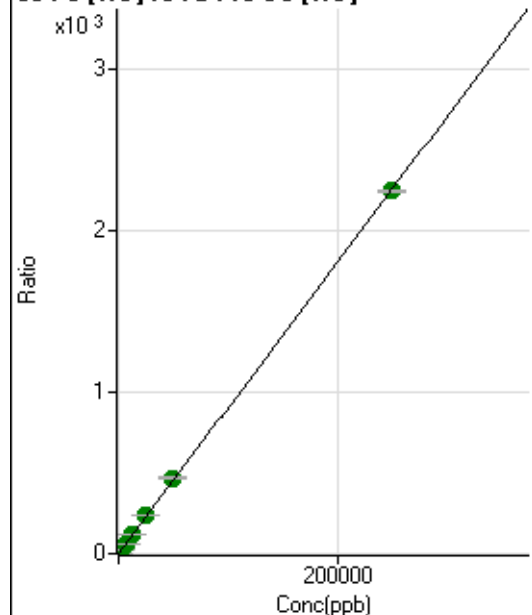
$$R = 1.0000$$

$$DL = 0.1423$$

$$BEC = 0.9565$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio     | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|-----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 5243.68     | 0.0213    | P    | 1.1 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |           |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 48.636     | 111158.51   | 0.4589    | P    | 2.1 |
| 4 | <input type="checkbox"/> | 2500.000  | 2754.956   | 6074462.46  | 24.8056   | A    | 2.8 |
| 5 | <input type="checkbox"/> | 6250.000  | 6782.931   | 15095933.44 | 61.0424   | A    | 0.7 |
| 6 | <input type="checkbox"/> | 12500.000 | 13345.854  | 30056445.81 | 120.0841  | A    | 0.2 |
| 7 | <input type="checkbox"/> | 25000.000 | 26136.447  | 60095811.07 | 235.1516  | A    | 0.7 |
| 8 | <input type="checkbox"/> | 50000.000 | 51838.962  | 121401014.7 | 466.3781  | A    | 1.5 |
| 9 | <input type="checkbox"/> | 250000.00 | 249460.39  | 612834621.1 | 2,244.232 | A    | 0.4 |

$$y = 0.0090 * x + 0.0213$$

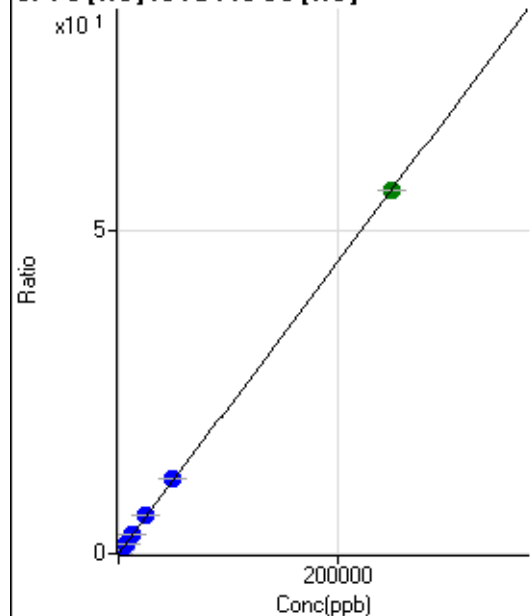
$$R = 1.0000$$

$$DL = 0.08135$$

$$BEC = 2.372$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 164.82      | 0.0007  | P    | 9.7 |
| 2 | <input type="checkbox"/> | 5.000     |            |             |         |      |     |
| 3 | <input type="checkbox"/> | 50.000    | 47.486     | 2741.07     | 0.0113  | P    | 6.3 |
| 4 | <input type="checkbox"/> | 2500.000  | 2720.384   | 149668.21   | 0.6111  | P    | 1.9 |
| 5 | <input type="checkbox"/> | 6250.000  | 6724.013   | 373305.72   | 1.5095  | P    | 0.4 |
| 6 | <input type="checkbox"/> | 12500.000 | 13275.999  | 745809.33   | 2.9797  | P    | 0.2 |
| 7 | <input type="checkbox"/> | 25000.000 | 26020.203  | 1492345.18  | 5.8394  | P    | 0.2 |
| 8 | <input type="checkbox"/> | 50000.000 | 51641.725  | 3016629.41  | 11.5887 | P    | 1.5 |
| 9 | <input type="checkbox"/> | 250000.00 | 249516.78  | 15289564.92 | 55.9905 | A    | 0.1 |

$$y = 2.2439E-004 * x + 6.7072E-004$$

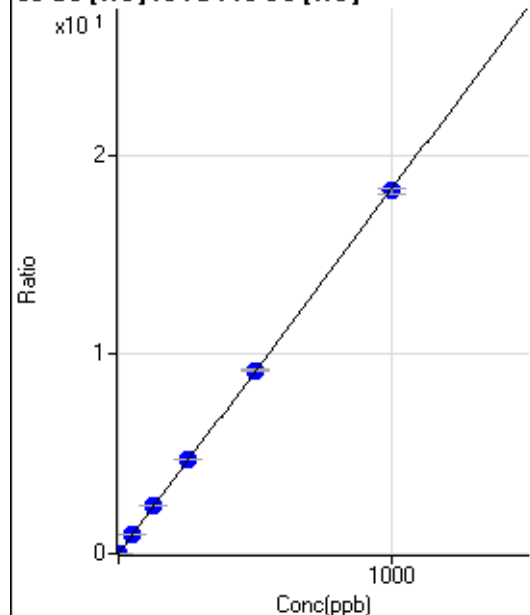
$$R = 1.0000$$

$$DL = 0.8686$$

$$BEC = 2.989$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio   | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|---------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 211.12     | 0.0009  | P        | 1.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |         |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.938      | 4364.05    | 0.0180  | P        | 4.2 |
| 4 | <input type="checkbox"/> | 50.000   | 53.180     | 238520.40  | 0.9740  | P        | 2.4 |
| 5 | <input type="checkbox"/> | 125.000  | 131.375    | 594720.10  | 2.4048  | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 258.375    | 1183568.61 | 4.7287  | P        | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 503.392    | 2354296.41 | 9.2121  | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1000.000 | 995.255    | 4740625.97 | 18.2124 | P        | 1.8 |
| 9 | <input type="checkbox"/> |          |            | 8258.01    | 0.0302  | P        | 0.4 |

$$y = 0.0183 * x + 8.5915E-004$$

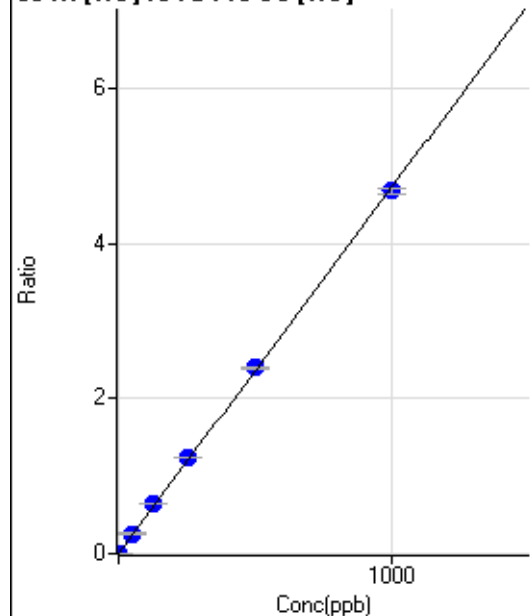
$$R = 0.9999$$

$$DL = 0.001486$$

$$BEC = 0.04695$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 460.02     | 0.0019 | P        | 10.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.967      | 1561.22    | 0.0064 | P        | 3.6  |
| 4 | <input type="checkbox"/> | 50.000   | 54.783     | 63854.06   | 0.2607 | P        | 2.4  |
| 5 | <input type="checkbox"/> | 125.000  | 134.407    | 157529.00  | 0.6370 | P        | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 263.437    | 312035.21  | 1.2467 | P        | 1.0  |
| 7 | <input type="checkbox"/> | 500.000  | 507.861    | 613781.60  | 2.4017 | P        | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 991.295    | 1219755.55 | 4.6861 | P        | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 18357.21   | 0.0672 | P        | 1.1  |

$$y = 0.0047 * x + 0.0019$$

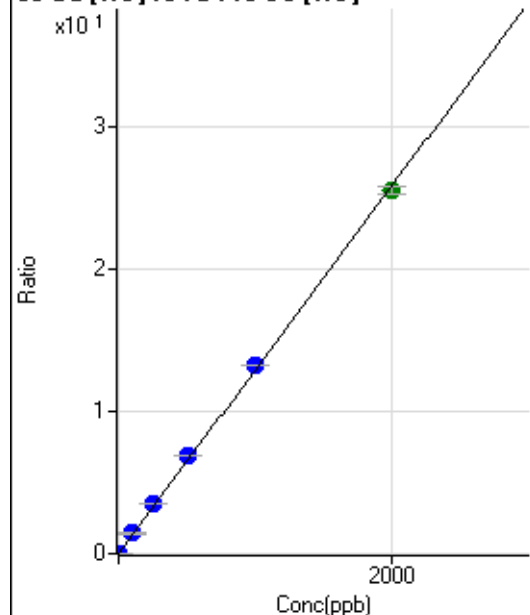
$$R = 0.9998$$

$$DL = 0.1235$$

$$BEC = 0.3961$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 971.16     | 0.0040  | P    | 7.0 |
| 2 | <input type="checkbox"/> | 0.200    |            |            |         |      |     |
| 3 | <input type="checkbox"/> | 2.000    | 2.339      | 8269.12    | 0.0341  | P    | 4.4 |
| 4 | <input type="checkbox"/> | 100.000  | 109.858    | 348053.80  | 1.4213  | P    | 2.5 |
| 5 | <input type="checkbox"/> | 250.000  | 271.096    | 865915.28  | 3.5014  | P    | 0.5 |
| 6 | <input type="checkbox"/> | 500.000  | 531.507    | 1717259.19 | 6.8611  | P    | 0.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1027.340   | 3388243.46 | 13.2579 | P    | 0.3 |
| 8 | <input type="checkbox"/> | 2000.000 | 1975.323   | 6634207.12 | 25.4881 | A    | 2.1 |
| 9 | <input type="checkbox"/> |          |            | 14967.84   | 0.0548  | P    | 0.7 |

$$y = 0.0129 * x + 0.0040$$

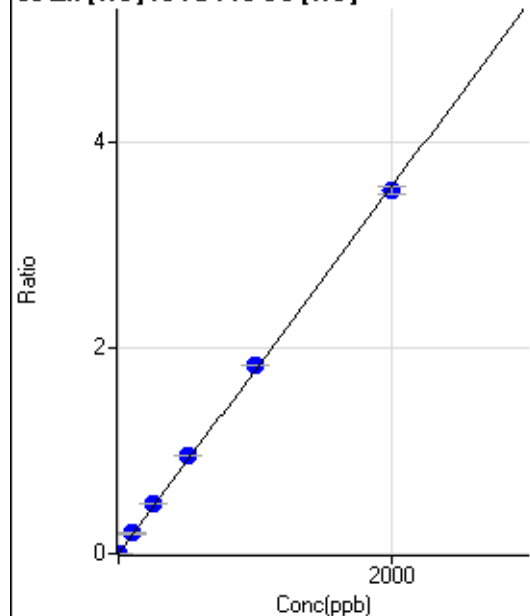
$$R = 0.9997$$

$$DL = 0.06438$$

$$BEC = 0.3063$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 181.12    | 0.0007 | P    | 22.1 |
| 2 | <input type="checkbox"/> | 0.200    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 2.000    | 2.233      | 1143.40   | 0.0047 | P    | 3.3  |
| 4 | <input type="checkbox"/> | 100.000  | 110.786    | 48490.49  | 0.1981 | P    | 4.3  |
| 5 | <input type="checkbox"/> | 250.000  | 271.173    | 119625.95 | 0.4837 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 531.796    | 237257.71 | 0.9479 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1023.349   | 466006.35 | 1.8234 | P    | 0.1  |
| 8 | <input type="checkbox"/> | 2000.000 | 1977.190   | 916798.25 | 3.5223 | P    | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 5963.52   | 0.0218 | P    | 1.9  |

$$y = 0.0018 * x + 7.3701E-004$$

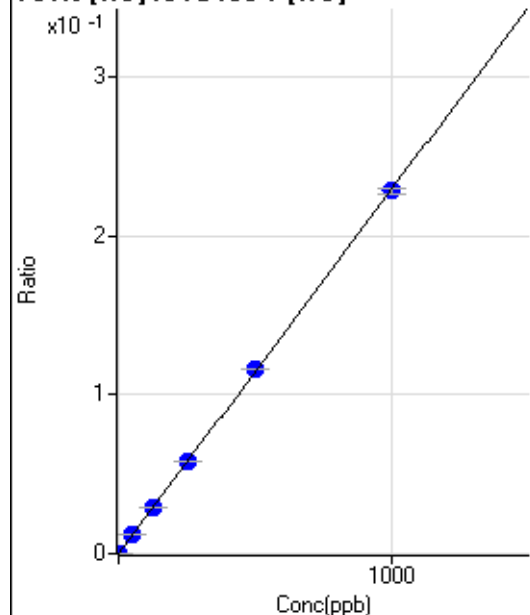
$$R = 0.9997$$

$$DL = 0.2747$$

$$BEC = 0.4138$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.64      | 0.0000 | P        | 44.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.952      | 322.23    | 0.0002 | P        | 4.4  |
| 4 | <input type="checkbox"/> | 50.000   | 50.984     | 16730.06  | 0.0117 | P        | 2.2  |
| 5 | <input type="checkbox"/> | 125.000  | 127.517    | 42125.56  | 0.0292 | P        | 1.0  |
| 6 | <input type="checkbox"/> | 250.000  | 253.493    | 84472.85  | 0.0581 | P        | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 505.015    | 168165.27 | 0.1157 | P        | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 996.256    | 339551.76 | 0.2283 | P        | 1.9  |
| 9 | <input type="checkbox"/> |          |            | 321.61    | 0.0002 | P        | 6.8  |

$$y = 2.2914\text{E-}004 * x + 6.0118\text{E-}006$$

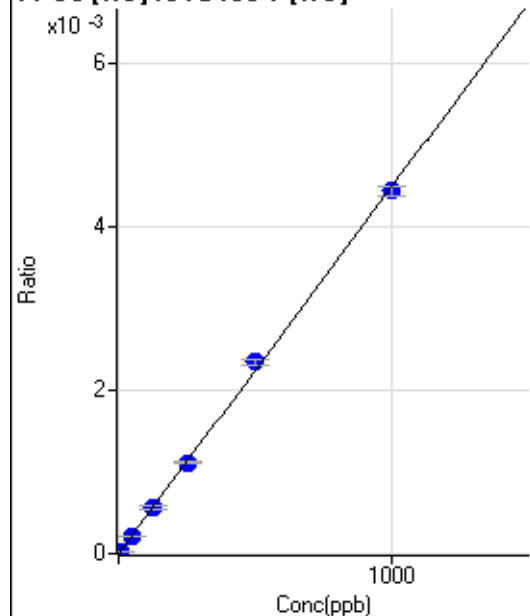
$$R = 1.0000$$

$$DL = 0.03507$$

$$BEC = 0.02624$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS     | Ratio  | Det<br>. | 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    | 6.570      | 42.22   | 0.0000 | P        | 6.6  |
| 4 | <input type="checkbox"/> | 50.000   | 48.003     | 307.79  | 0.0002 | P        | 5.5  |
| 5 | <input type="checkbox"/> | 125.000  | 125.854    | 812.26  | 0.0006 | P        | 6.2  |
| 6 | <input type="checkbox"/> | 250.000  | 246.972    | 1607.89 | 0.0011 | P        | 2.4  |
| 7 | <input type="checkbox"/> | 500.000  | 522.309    | 3398.24 | 0.0023 | P        | 2.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 989.588    | 6590.49 | 0.0044 | P        | 2.7  |
| 9 | <input type="checkbox"/> |          |            | 5.56    | 0.0000 | P        | 91.6 |

$$y = 4.4771\text{E-}006 * x + 0.0000\text{E+}000$$

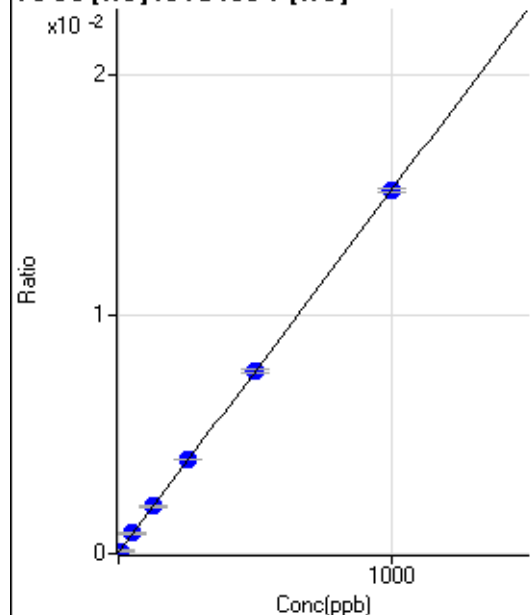
$$R = 0.9996$$

$$DL = 0$$

$$BEC = 0$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 63.58    | 0.0000 | P    | 11.8 |
| 2 | <input type="checkbox"/> | 0.500    |            |          |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 5.002      | 172.23   | 0.0001 | P    | 5.7  |
| 4 | <input type="checkbox"/> | 50.000   | 53.165     | 1215.50  | 0.0008 | P    | 5.2  |
| 5 | <input type="checkbox"/> | 125.000  | 128.711    | 2873.15  | 0.0020 | P    | 3.0  |
| 6 | <input type="checkbox"/> | 250.000  | 255.873    | 5698.70  | 0.0039 | P    | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 499.704    | 11060.46 | 0.0076 | P    | 2.6  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.057    | 22547.83 | 0.0152 | P    | 1.0  |
| 9 | <input type="checkbox"/> |          |            | 99.38    | 0.0001 | P    | 11.3 |

$$y = 1.5143\text{E-}005 * x + 4.4227\text{E-}005$$

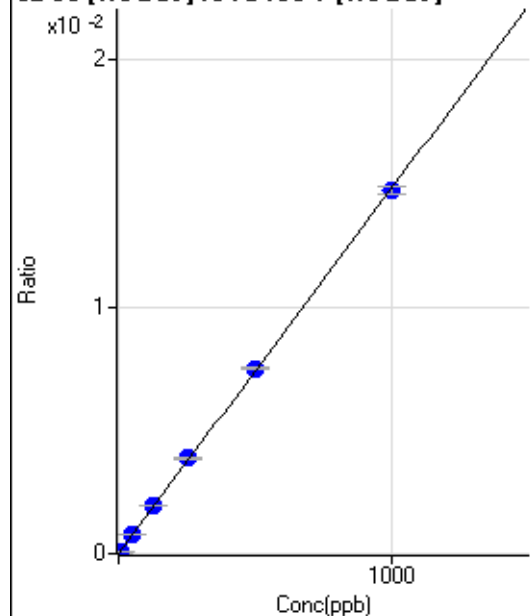
$$R = 1.0000$$

$$DL = 1.032$$

$$BEC = 2.921$$

Weight: &lt;None&gt;

Min Conc: 0

**82 Se [NoGas] ISTD:89 Y [NoGas]**

|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 110.74    | 0.0000 | P    | 55.7 |
| 2 | <input type="checkbox"/> | 0.500    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.833      | 838.56    | 0.0001 | P    | 16.8 |
| 4 | <input type="checkbox"/> | 50.000   | 52.028     | 7946.70   | 0.0008 | P    | 0.3  |
| 5 | <input type="checkbox"/> | 125.000  | 131.796    | 20031.90  | 0.0020 | P    | 1.2  |
| 6 | <input type="checkbox"/> | 250.000  | 260.485    | 39286.16  | 0.0039 | P    | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 506.471    | 76936.72  | 0.0075 | P    | 0.9  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.193    | 151350.60 | 0.0147 | P    | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 236.64    | 0.0000 | P    | 18.8 |

$$y = 1.4795\text{E-}005 * x + 1.0814\text{E-}005$$

$$R = 0.9999$$

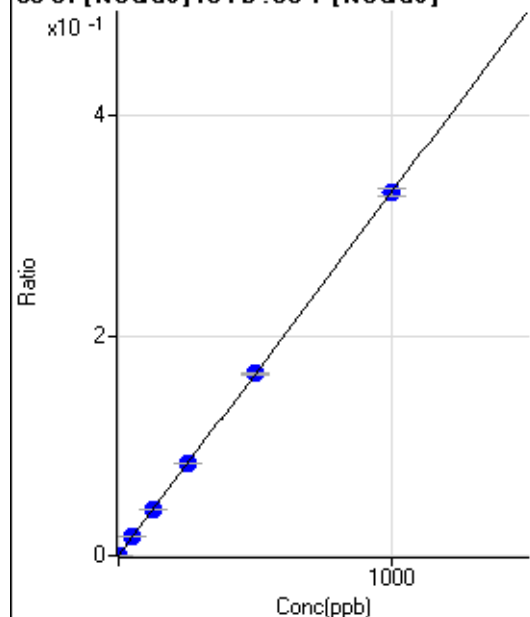
$$DL = 1.222$$

$$BEC = 0.731$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1983.57    | 0.0002 | P        | 1.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.897      | 4992.75    | 0.0005 | P        | 2.9 |
| 4 | <input type="checkbox"/> | 50.000   | 50.105     | 170494.98  | 0.0167 | P        | 0.2 |
| 5 | <input type="checkbox"/> | 125.000  | 125.939    | 427069.54  | 0.0418 | P        | 0.3 |
| 6 | <input type="checkbox"/> | 250.000  | 252.892    | 851287.74  | 0.0837 | P        | 0.5 |
| 7 | <input type="checkbox"/> | 500.000  | 501.472    | 1700587.43 | 0.1659 | P        | 1.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 998.418    | 3396993.35 | 0.3300 | P        | 2.2 |
| 9 | <input type="checkbox"/> |          |            | 113496.64  | 0.0113 | P        | 0.4 |

$$y = 3.3037\text{E-}004 * x + 1.9336\text{E-}004$$

$$R = 1.0000$$

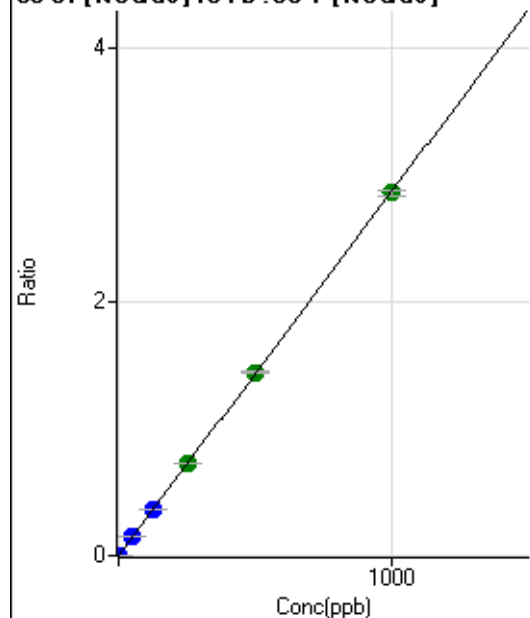
$$DL = 0.02501$$

$$BEC = 0.5853$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 430.58      | 0.0000 | P        | 6.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.904      | 26795.22    | 0.0026 | P        | 2.5 |
| 4 | <input type="checkbox"/> | 50.000   | 51.105     | 1489570.18  | 0.1463 | P        | 1.1 |
| 5 | <input type="checkbox"/> | 125.000  | 128.554    | 3759689.41  | 0.3680 | P        | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 252.786    | 7355670.39  | 0.7236 | A        | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 503.589    | 14778997.03 | 1.4414 | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.010    | 29373539.89 | 2.8537 | A        | 1.8 |
| 9 | <input type="checkbox"/> |          |            | 978704.45   | 0.0974 | P        | 0.5 |

$$y = 0.0029 * x + 4.1973\text{E-}005$$

$$R = 1.0000$$

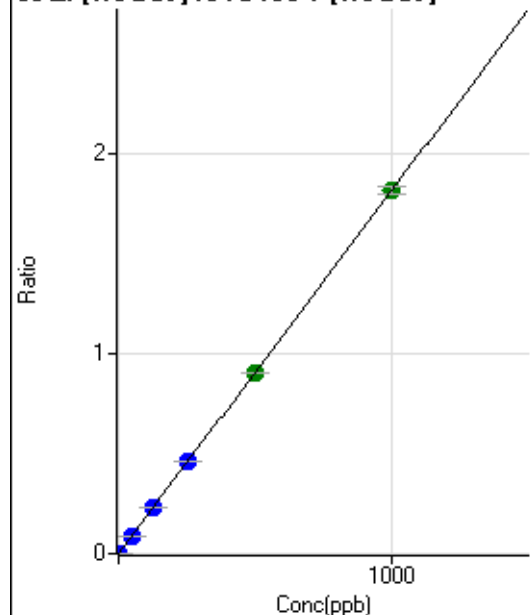
$$DL = 0.002767$$

$$BEC = 0.01466$$

Weight: &lt;None&gt;

Min Conc: 0

90 Zr [NoGas] ISTD:89 Y [NoGas]



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 527.81      | 0.0001 | P    | 11.9 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.713      | 13695.99    | 0.0013 | P    | 1.5  |
| 4 | <input type="checkbox"/> | 50.000   | 48.459     | 894584.60   | 0.0879 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 125.322    | 2320863.38  | 0.2272 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 252.892    | 4659418.98  | 0.4583 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 500.000  | 498.702    | 9267123.12  | 0.9038 | A    | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.963    | 18652834.27 | 1.8122 | A    | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 6968.72     | 0.0007 | P    | 10.3 |

$$y = 0.0018 * x + 5.1460E-005$$

$$R = 1.0000$$

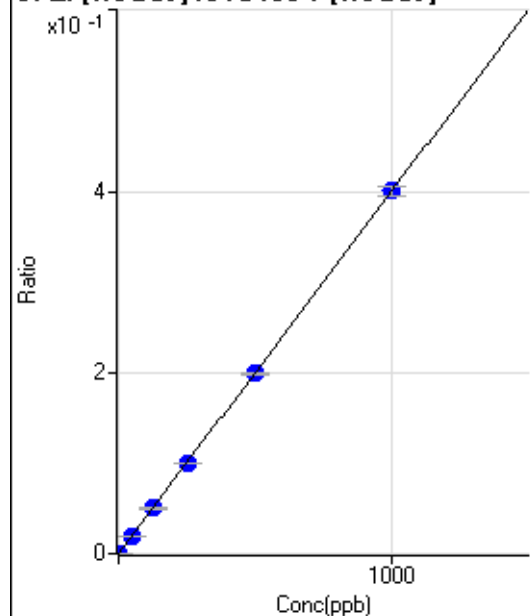
$$DL = 0.01013$$

$$BEC = 0.0284$$

Weight: &lt;None&gt;

Min Conc: 0

91 Zr [NoGas] ISTD:89 Y [NoGas]



|   | 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    | 12.1 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.724      | 3053.24    | 0.0003 | P    | 3.8  |
| 4 | <input type="checkbox"/> | 50.000   | 48.474     | 197428.95  | 0.0194 | P    | 1.4  |
| 5 | <input type="checkbox"/> | 125.000  | 125.029    | 510876.33  | 0.0500 | P    | 1.5  |
| 6 | <input type="checkbox"/> | 250.000  | 250.475    | 1018271.31 | 0.1002 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 497.000    | 2037710.68 | 0.1987 | P    | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.454   | 4121695.97 | 0.4005 | P    | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 1652.94    | 0.0002 | P    | 11.6 |

$$y = 3.9987E-004 * x + 1.0016E-005$$

$$R = 1.0000$$

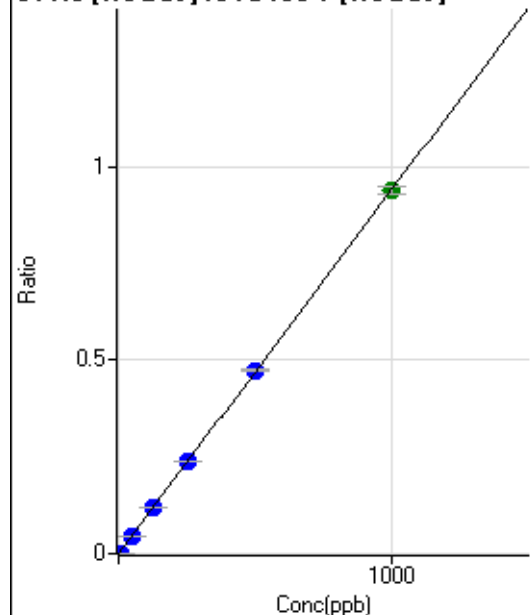
$$DL = 0.009104$$

$$BEC = 0.02505$$

Weight: &lt;None&gt;

Min Conc: 0



**94 Mo [NoGas] ISTD : 89 Y [NoGas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 202.79     | 0.0000 | P        | 8.8 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 5.000    | 1.808      | 17536.39   | 0.0017 | P        | 1.7 |
| 4 | <input type="checkbox"/> | 50.000   | 48.771     | 467096.81  | 0.0459 | P        | 1.4 |
| 5 | <input type="checkbox"/> | 125.000  | 125.522    | 1206151.98 | 0.1181 | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 252.687    | 2415717.20 | 0.2376 | P        | 0.8 |
| 7 | <input type="checkbox"/> | 500.000  | 503.496    | 4854653.88 | 0.4735 | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.592    | 9655932.25 | 0.9381 | A        | 2.0 |
| 9 | <input type="checkbox"/> |          |            | 16179.27   | 0.0016 | P        | 1.3 |

$$y = 9.4036\text{E-}004 * x + 1.9771\text{E-}005$$

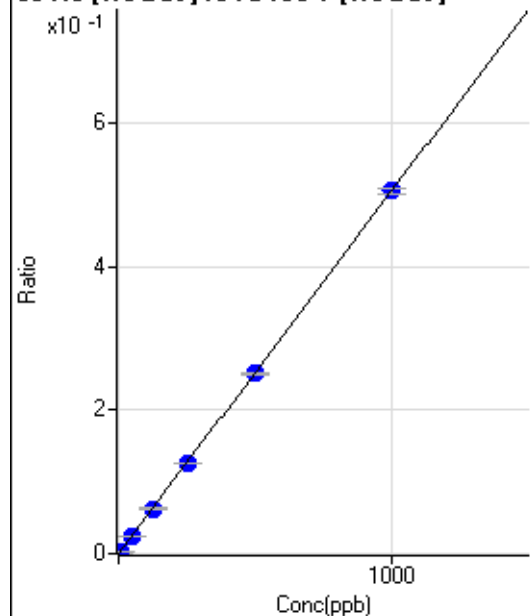
$$R = 1.0000$$

$$DL = 0.005561$$

$$BEC = 0.02102$$

Weight: &lt;None&gt;

Min Conc: 0

**95 Mo [NoGas] ISTD : 89 Y [NoGas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 41.67      | 0.0000 | P        | 53.1 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.333      | 22323.89   | 0.0022 | P        | 1.0  |
| 4 | <input type="checkbox"/> | 50.000   | 49.529     | 254381.86  | 0.0250 | P        | 0.8  |
| 5 | <input type="checkbox"/> | 125.000  | 124.618    | 642276.34  | 0.0629 | P        | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 250.907    | 1286599.01 | 0.1266 | P        | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 497.981    | 2575476.92 | 0.2512 | P        | 0.8  |
| 8 | <input type="checkbox"/> | 1000.000 | 1000.858   | 5196405.32 | 0.5048 | P        | 1.8  |
| 9 | <input type="checkbox"/> |          |            | 23968.29   | 0.0024 | P        | 2.8  |

$$y = 5.0441\text{E-}004 * x + 4.0652\text{E-}006$$

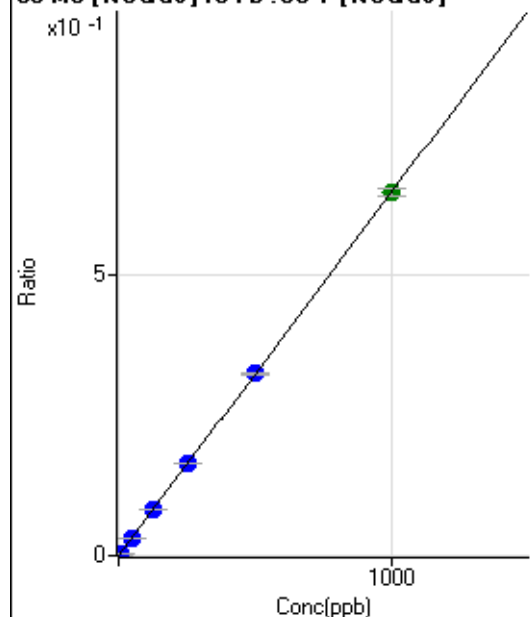
$$R = 1.0000$$

$$DL = 0.01284$$

$$BEC = 0.008059$$

Weight: &lt;None&gt;

Min Conc: 0

**96 Mo [NoGas] ISTD:89 Y [NoGas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 111.12     | 0.0000 | P        | 28.6 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 3.754      | 24917.02   | 0.0024 | P        | 1.6  |
| 4 | <input type="checkbox"/> | 50.000   | 49.451     | 326445.94  | 0.0321 | P        | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 125.394    | 830553.69  | 0.0813 | P        | 0.6  |
| 6 | <input type="checkbox"/> | 250.000  | 252.528    | 1664143.37 | 0.1637 | P        | 0.5  |
| 7 | <input type="checkbox"/> | 500.000  | 502.238    | 3337962.18 | 0.3256 | P        | 1.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.233    | 6660012.39 | 0.6471 | A        | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 31599.95   | 0.0031 | P        | 1.2  |

$$y = 6.4821\text{E-}004 * x + 1.0836\text{E-}005$$

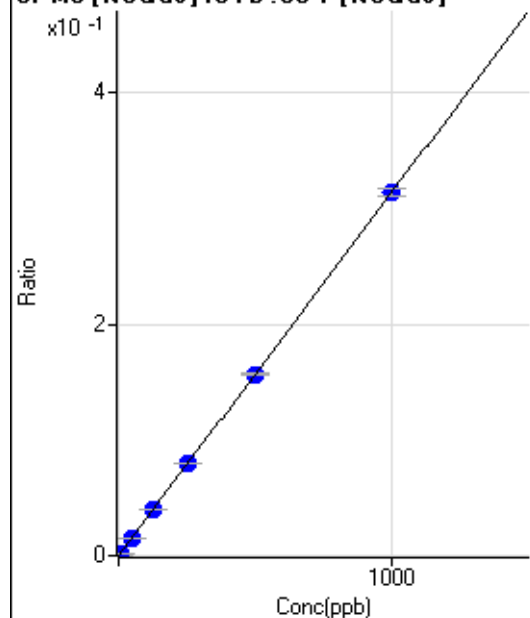
$$R = 1.0000$$

$$DL = 0.01434$$

$$BEC = 0.01672$$

Weight: &lt;None&gt;

Min Conc: 0

**97 Mo [NoGas] ISTD:89 Y [NoGas]**

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD  |
|---|--------------------------|----------|------------|------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45      | 0.0000 | P        | 71.2 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |          |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.399      | 14118.67   | 0.0014 | P        | 1.1  |
| 4 | <input type="checkbox"/> | 50.000   | 49.936     | 159622.71  | 0.0157 | P        | 1.2  |
| 5 | <input type="checkbox"/> | 125.000  | 125.644    | 402991.18  | 0.0394 | P        | 1.1  |
| 6 | <input type="checkbox"/> | 250.000  | 253.125    | 807785.75  | 0.0795 | P        | 0.1  |
| 7 | <input type="checkbox"/> | 500.000  | 499.202    | 1606682.21 | 0.1567 | P        | 1.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.543    | 3229480.89 | 0.3138 | P        | 2.2  |
| 9 | <input type="checkbox"/> |          |            | 14563.62   | 0.0014 | P        | 4.4  |

$$y = 3.1391\text{E-}004 * x + 4.3412\text{E-}006$$

$$R = 1.0000$$

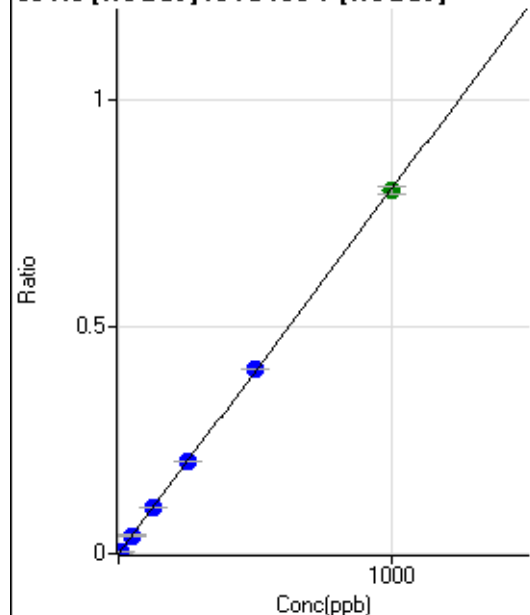
$$DL = 0.02953$$

$$BEC = 0.01383$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 75.01      | 0.0000 | P    | 18.8 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.422      | 36297.27   | 0.0036 | P    | 0.3  |
| 4 | <input type="checkbox"/> | 50.000   | 50.004     | 409173.69  | 0.0402 | P    | 0.9  |
| 5 | <input type="checkbox"/> | 125.000  | 126.342    | 1037384.86 | 0.1015 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 254.836    | 2081922.36 | 0.2048 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 500.000  | 506.850    | 4176325.05 | 0.4073 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 995.201    | 8231704.18 | 0.7998 | A    | 2.3  |
| 9 | <input type="checkbox"/> |          |            | 37302.45   | 0.0037 | P    | 1.2  |

$$y = 8.0362\text{E-}004 * x + 7.3067\text{E-}006$$

$$R = 0.9999$$

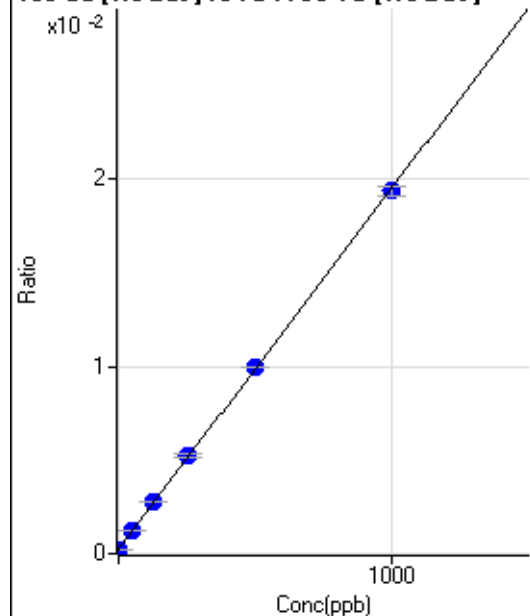
$$DL = 0.005129$$

$$BEC = 0.009092$$

Weight: &lt;None&gt;

Min Conc: 0

106 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      | 3189.40   | 0.0002 | P    | 10.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.270      | 3267.20   | 0.0002 | P    | 3.0  |
| 4 | <input type="checkbox"/> | 50.000   | 52.164     | 17453.05  | 0.0012 | P    | 3.4  |
| 5 | <input type="checkbox"/> | 125.000  | 132.304    | 38932.33  | 0.0028 | P    | 1.4  |
| 6 | <input type="checkbox"/> | 250.000  | 259.788    | 73148.02  | 0.0052 | P    | 2.5  |
| 7 | <input type="checkbox"/> | 500.000  | 505.319    | 140490.87 | 0.0100 | P    | 0.2  |
| 8 | <input type="checkbox"/> | 1000.000 | 993.873    | 273853.76 | 0.0194 | P    | 2.4  |
| 9 | <input type="checkbox"/> |          |            | 2933.77   | 0.0002 | P    | 2.7  |

$$y = 1.9284\text{E-}005 * x + 2.2559\text{E-}004$$

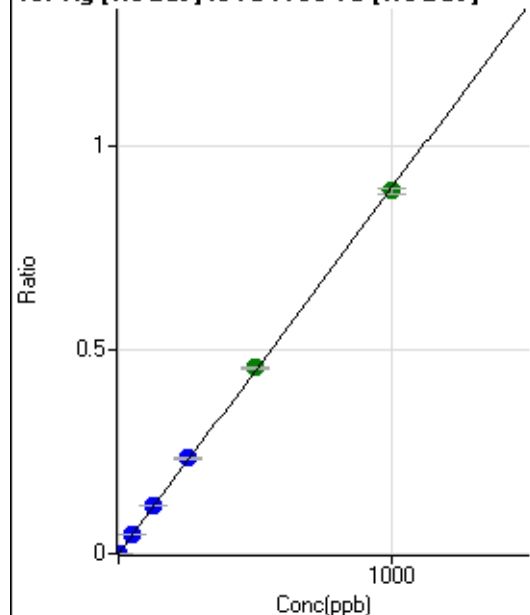
$$R = 0.9999$$

$$DL = 3.517$$

$$BEC = 11.7$$

Weight: &lt;None&gt;

Min Conc: 0

**107 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      | 94.45       | 0.0000 | P    | 28.2 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.205      | 15383.96    | 0.0011 | P    | 1.3  |
| 4 | <input type="checkbox"/> | 50.000   | 51.595     | 655403.04   | 0.0462 | P    | 0.7  |
| 5 | <input type="checkbox"/> | 125.000  | 130.557    | 1640525.85  | 0.1170 | P    | 0.3  |
| 6 | <input type="checkbox"/> | 250.000  | 260.406    | 3261127.44  | 0.2334 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 500.000  | 508.269    | 6418677.83  | 0.4555 | A    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.489    | 12561624.07 | 0.8895 | A    | 1.8  |
| 9 | <input type="checkbox"/> |          |            | 3153.26     | 0.0002 | P    | 10.6 |

$$y = 8.9620\text{E-}004 * x + 6.6777\text{E-}006$$

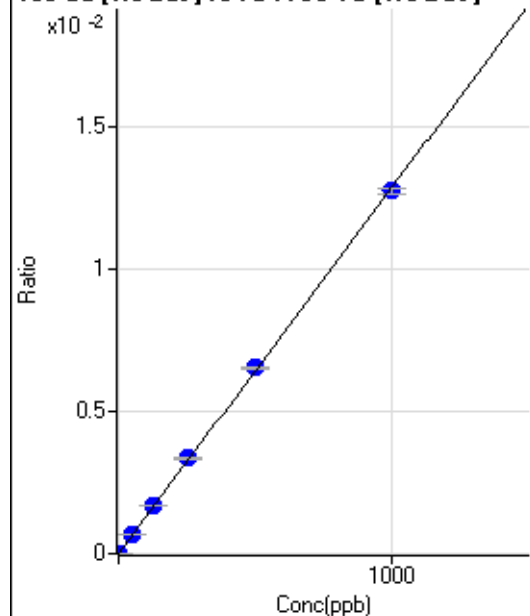
$$R = 0.9999$$

$$DL = 0.006311$$

$$BEC = 0.007451$$

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      | 12.50     | 0.0000 | P    | 88.3 |
| 2 | <input type="checkbox"/> | 0.100    |            |           |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.892      | 175.01    | 0.0000 | P    | 4.4  |
| 4 | <input type="checkbox"/> | 50.000   | 52.022     | 9497.80   | 0.0007 | P    | 0.1  |
| 5 | <input type="checkbox"/> | 125.000  | 131.926    | 23807.79  | 0.0017 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 250.000  | 260.817    | 46894.32  | 0.0034 | P    | 2.4  |
| 7 | <input type="checkbox"/> | 500.000  | 507.804    | 92068.92  | 0.0065 | P    | 0.1  |
| 8 | <input type="checkbox"/> | 1000.000 | 992.427    | 180330.03 | 0.0128 | P    | 1.7  |
| 9 | <input type="checkbox"/> |          |            | 72.22     | 0.0000 | P    | 27.0 |

$$y = 1.2865\text{E-}005 * x + 8.8514\text{E-}007$$

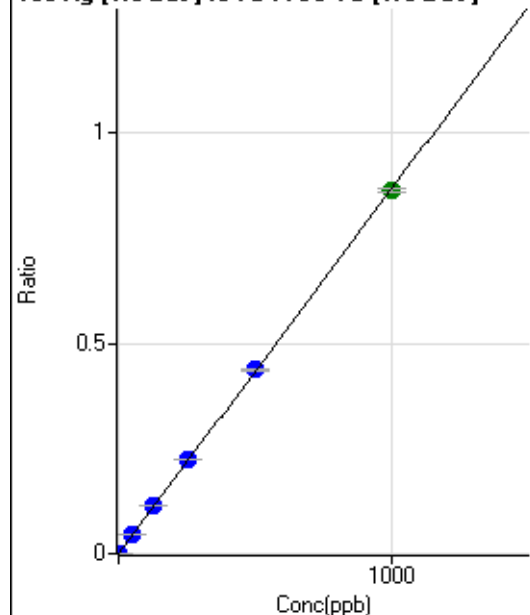
$$R = 0.9999$$

$$DL = 0.1823$$

$$BEC = 0.0688$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 61.12       | 0.0000 | P        | 7.6 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.180      | 14535.86    | 0.0010 | P        | 1.3 |
| 4 | <input type="checkbox"/> | 50.000   | 51.173     | 628546.74   | 0.0444 | P        | 0.5 |
| 5 | <input type="checkbox"/> | 125.000  | 130.036    | 1579973.51  | 0.1127 | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 257.934    | 3123359.21  | 0.2235 | P        | 1.3 |
| 7 | <input type="checkbox"/> | 500.000  | 504.715    | 6163128.61  | 0.4374 | P        | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 994.971    | 12177876.84 | 0.8623 | A        | 1.1 |
| 9 | <input type="checkbox"/> |          |            | 2839.30     | 0.0002 | P        | 9.6 |

$$y = 8.6661\text{E-}004 * x + 4.3212\text{E-}006$$

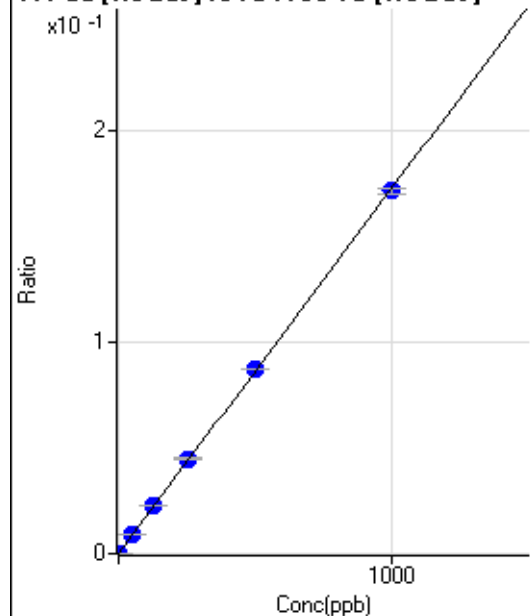
$$R = 0.9999$$

$$DL = 0.001137$$

$$BEC = 0.004986$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 959.18     | 0.0001 | P        | 9.8 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 0.884      | 3120.39    | 0.0002 | P        | 2.4 |
| 4 | <input type="checkbox"/> | 50.000   | 51.977     | 128063.40  | 0.0090 | P        | 0.3 |
| 5 | <input type="checkbox"/> | 125.000  | 131.614    | 319335.12  | 0.0228 | P        | 0.8 |
| 6 | <input type="checkbox"/> | 250.000  | 259.802    | 627330.82  | 0.0449 | P        | 1.1 |
| 7 | <input type="checkbox"/> | 500.000  | 505.310    | 1229503.62 | 0.0873 | P        | 0.6 |
| 8 | <input type="checkbox"/> | 1000.000 | 993.969    | 2423046.04 | 0.1716 | P        | 1.8 |
| 9 | <input type="checkbox"/> |          |            | 1611.56    | 0.0001 | P        | 5.9 |

$$y = 1.7255\text{E-}004 * x + 6.7842\text{E-}005$$

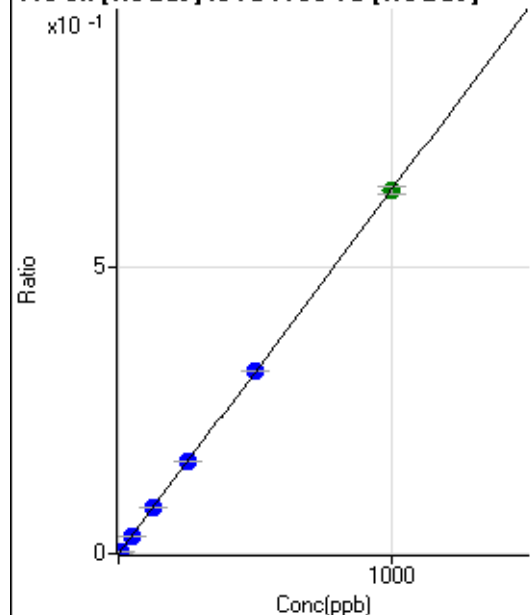
$$R = 0.9999$$

$$DL = 0.1155$$

$$BEC = 0.3932$$

Weight: &lt;None&gt;

Min Conc: 0

**118 Sn [NoGas] ISTD : 159 Tb [NoGas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 444.47     | 0.0000 | P   | 14.0 |
| 2 | <input type="checkbox"/> | 0.500    |            |            |        |     |      |
| 3 | <input type="checkbox"/> | 5.000    | 4.292      | 39102.95   | 0.0028 | P   | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 49.773     | 449223.07  | 0.0317 | P   | 0.6  |
| 5 | <input type="checkbox"/> | 125.000  | 126.220    | 1126280.99 | 0.0803 | P   | 0.7  |
| 6 | <input type="checkbox"/> | 250.000  | 252.812    | 2247939.68 | 0.1609 | P   | 0.7  |
| 7 | <input type="checkbox"/> | 500.000  | 502.428    | 4504561.56 | 0.3197 | P   | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.945    | 8966728.24 | 0.6349 | A   | 2.2  |
| 9 | <input type="checkbox"/> |          |            | 12430.99   | 0.0009 | P   | 2.8  |

$$y = 6.3621\text{E-}004 * x + 3.1424\text{E-}005$$

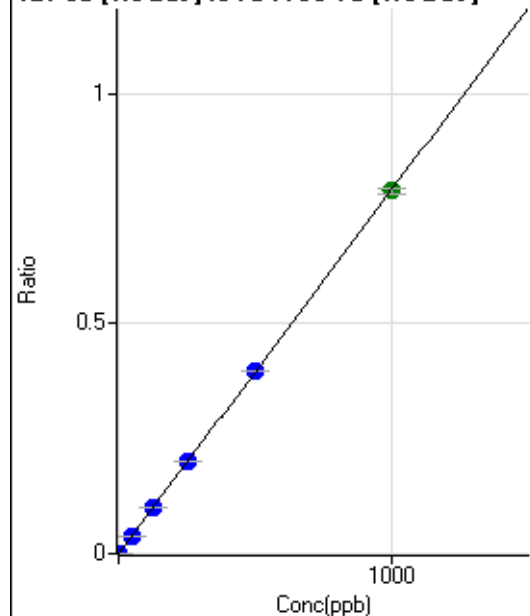
$$R = 1.0000$$

$$DL = 0.02073$$

$$BEC = 0.04939$$

Weight: &lt;None&gt;

Min Conc: 0

**121 Sb [NoGas] ISTD : 159 Tb [NoGas]**

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-------------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 102.79      | 0.0000 | P   | 40.5 |
| 2 | <input type="checkbox"/> | 0.200    |            |             |        |     |      |
| 3 | <input type="checkbox"/> | 2.000    | 1.790      | 20115.16    | 0.0014 | P   | 2.8  |
| 4 | <input type="checkbox"/> | 50.000   | 48.860     | 547136.12   | 0.0386 | P   | 1.1  |
| 5 | <input type="checkbox"/> | 125.000  | 126.513    | 1401293.65  | 0.1000 | P   | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 253.301    | 2796199.41  | 0.2001 | P   | 0.9  |
| 7 | <input type="checkbox"/> | 500.000  | 502.825    | 5597229.07  | 0.3972 | P   | 0.7  |
| 8 | <input type="checkbox"/> | 1000.000 | 997.630    | 11130568.91 | 0.7881 | A   | 1.5  |
| 9 | <input type="checkbox"/> |          |            | 40462.08    | 0.0030 | P   | 1.4  |

$$y = 7.8999\text{E-}004 * x + 7.2602\text{E-}006$$

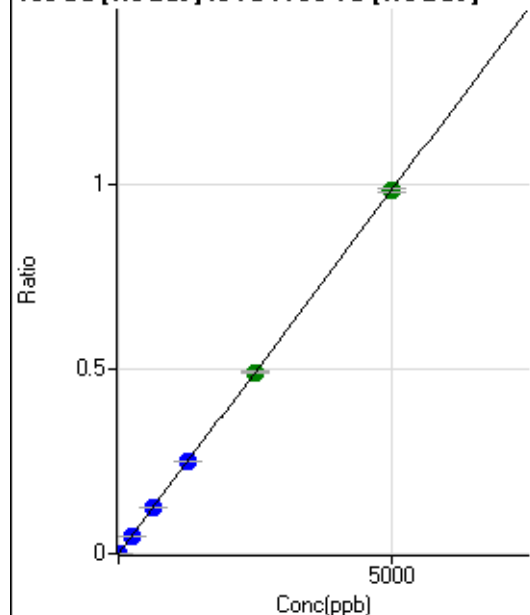
$$R = 1.0000$$

$$DL = 0.01117$$

$$BEC = 0.00919$$

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      | 158.34      | 0.0000 | P    | 28.1 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 8.934      | 24984.50    | 0.0018 | P    | 0.2  |
| 4 | <input type="checkbox"/> | 250.000  | 248.686    | 692033.94   | 0.0488 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 636.870    | 1752986.48  | 0.1250 | P    | 1.0  |
| 6 | <input type="checkbox"/> | 1250.000 | 1273.166   | 3492653.98  | 0.2499 | P    | 0.8  |
| 7 | <input type="checkbox"/> | 2500.000 | 2500.425   | 6916687.48  | 0.4909 | A    | 0.9  |
| 8 | <input type="checkbox"/> | 5000.000 | 4992.580   | 13842580.52 | 0.9801 | A    | 1.1  |
| 9 | <input type="checkbox"/> |          |            | 6882.56     | 0.0005 | P    | 2.7  |

$$y = 1.9631E-004 * x + 1.1202E-005$$

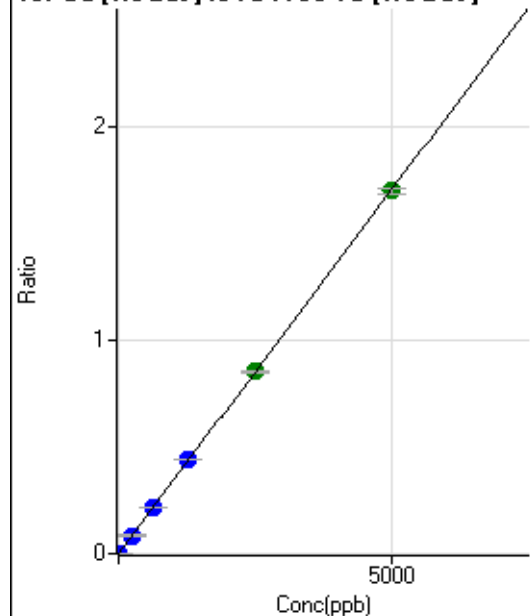
$$R = 1.0000$$

$$DL = 0.04806$$

$$BEC = 0.05706$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 230.57      | 0.0000 | P    | 27.1 |
| 2 | <input type="checkbox"/> | 1.000    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 10.000   | 8.771      | 42563.56    | 0.0030 | P    | 2.1  |
| 4 | <input type="checkbox"/> | 250.000  | 250.449    | 1210520.41  | 0.0854 | P    | 0.5  |
| 5 | <input type="checkbox"/> | 625.000  | 641.510    | 3067078.04  | 0.2188 | P    | 0.5  |
| 6 | <input type="checkbox"/> | 1250.000 | 1296.345   | 6177078.09  | 0.4421 | P    | 0.5  |
| 7 | <input type="checkbox"/> | 2500.000 | 2498.087   | 12002913.38 | 0.8518 | A    | 0.5  |
| 8 | <input type="checkbox"/> | 5000.000 | 4987.287   | 24018188.38 | 1.7006 | A    | 1.2  |
| 9 | <input type="checkbox"/> |          |            | 12216.94    | 0.0009 | P    | 4.8  |

$$y = 3.4099E-004 * x + 1.6316E-005$$

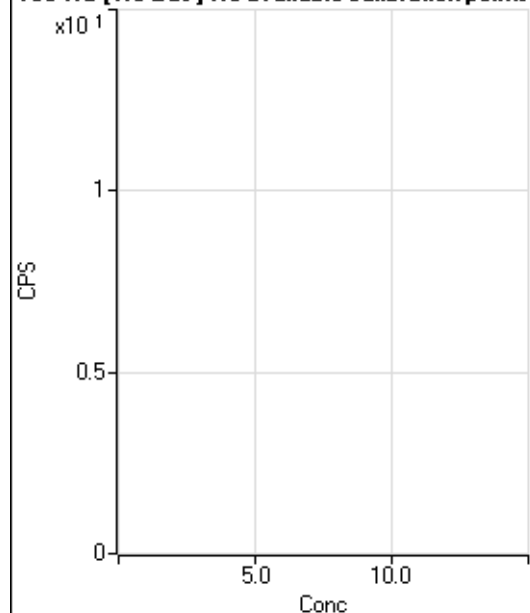
$$R = 0.9999$$

$$DL = 0.0389$$

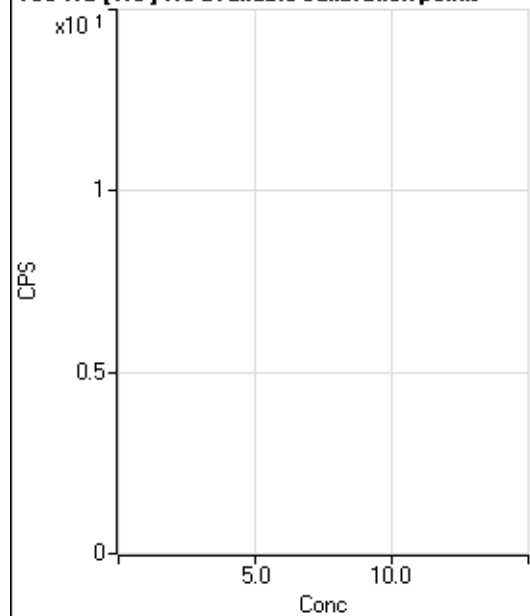
$$BEC = 0.04785$$

Weight: &lt;None&gt;

Min Conc: 0

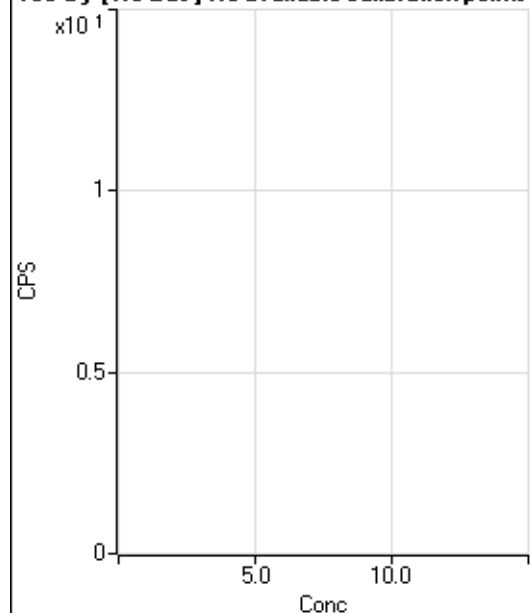
**150 Nd [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89    |       | P        | 43.3 |
| 2 | <input type="checkbox"/> |       |            |         |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 20.00   |       | P        | 66.7 |
| 4 | <input type="checkbox"/> |       |            | 57.78   |       | P        | 24.0 |
| 5 | <input type="checkbox"/> |       |            | 135.56  |       | P        | 7.5  |
| 6 | <input type="checkbox"/> |       |            | 264.46  |       | P        | 25.5 |
| 7 | <input type="checkbox"/> |       |            | 517.81  |       | P        | 4.5  |
| 8 | <input type="checkbox"/> |       |            | 1015.63 |       | P        | 8.7  |
| 9 | <input type="checkbox"/> |       |            | 186.68  |       | P        | 29.2 |

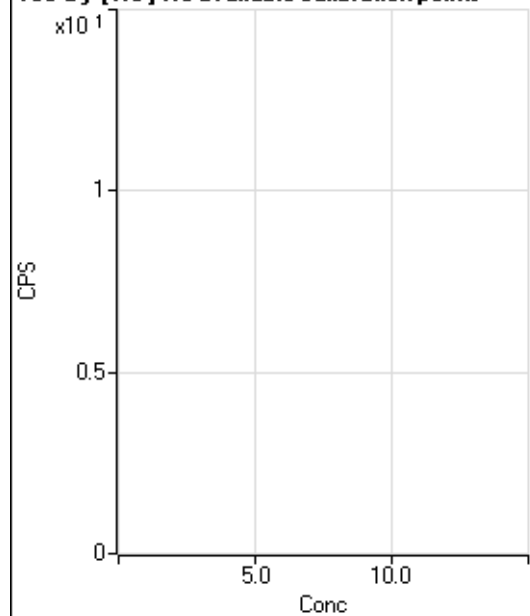
**150 Nd [ He ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 0.00  |       | P        |      |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 100. |
| 4 | <input type="checkbox"/> |       |            | 5.56  |       | P        | 34.7 |
| 5 | <input type="checkbox"/> |       |            | 17.78 |       | P        | 57.3 |
| 6 | <input type="checkbox"/> |       |            | 35.56 |       | P        | 42.3 |
| 7 | <input type="checkbox"/> |       |            | 61.11 |       | P        | 19.2 |
| 8 | <input type="checkbox"/> |       |            | 93.34 |       | P        | 25.8 |
| 9 | <input type="checkbox"/> |       |            | 63.33 |       | P        | 15.8 |

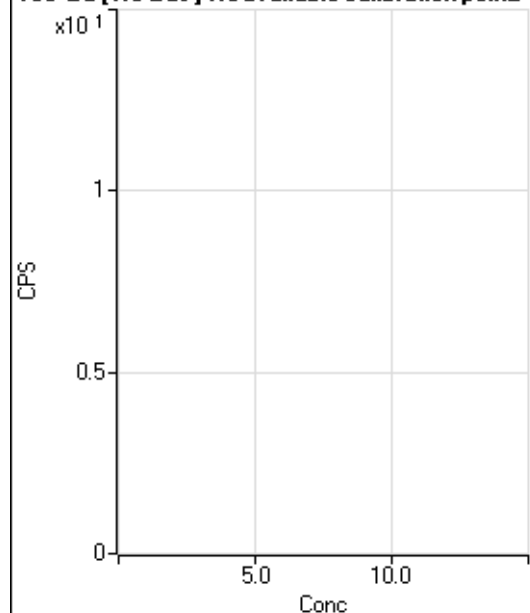


**156 Dy [No Gas] No available calibration points**

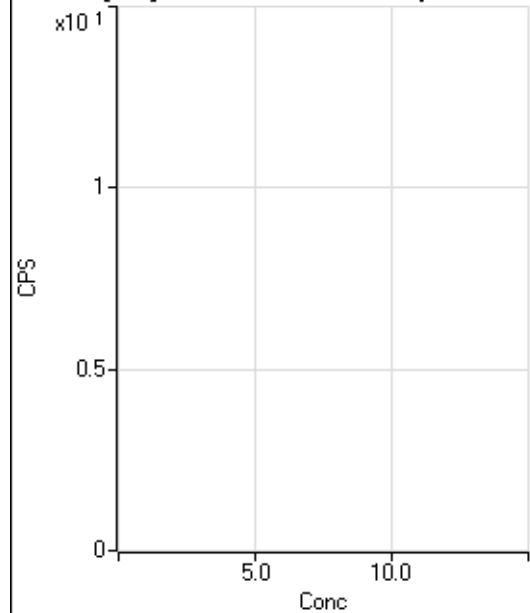
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 155.56 |       | P        | 22.3 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 133.34 |       | P        | 16.5 |
| 4 | <input type="checkbox"/> |       |            | 108.34 |       | P        | 20.4 |
| 5 | <input type="checkbox"/> |       |            | 158.34 |       | P        | 9.1  |
| 6 | <input type="checkbox"/> |       |            | 172.23 |       | P        | 15.6 |
| 7 | <input type="checkbox"/> |       |            | 269.46 |       | P        | 19.6 |
| 8 | <input type="checkbox"/> |       |            | 269.46 |       | P        | 18.9 |
| 9 | <input type="checkbox"/> |       |            | 225.01 |       | P        | 9.8  |

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

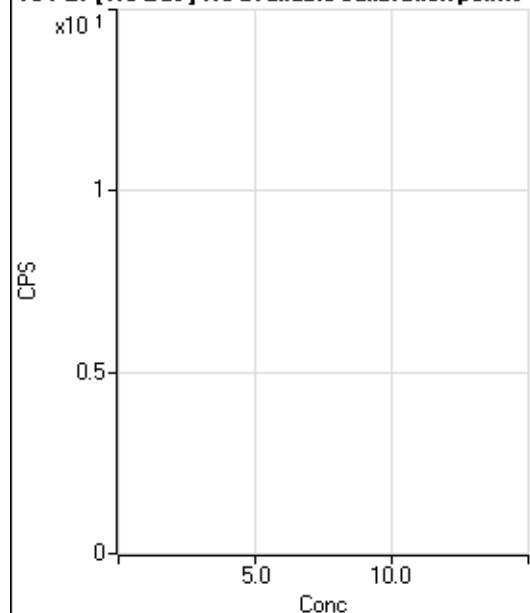
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P        | 78.1 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 57.8 |
| 4 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 33.4 |
| 5 | <input type="checkbox"/> |       |            | 16.66  |       | P        | 34.6 |
| 6 | <input type="checkbox"/> |       |            | 53.33  |       | P        | 16.5 |
| 7 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 22.2 |
| 8 | <input type="checkbox"/> |       |            | 121.11 |       | P        | 22.2 |
| 9 | <input type="checkbox"/> |       |            | 80.00  |       | P        | 19.1 |

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

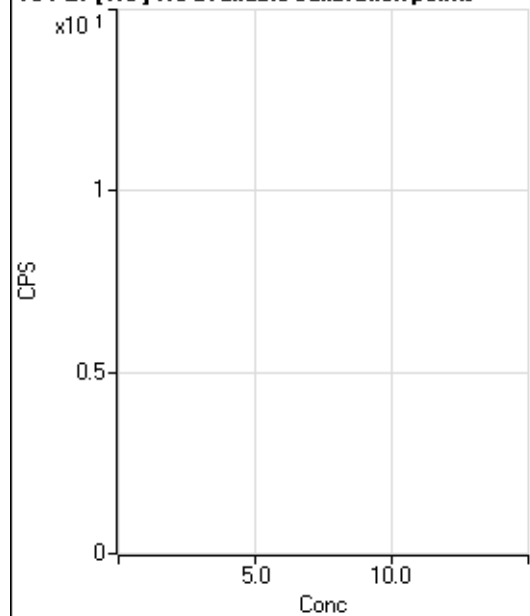
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 20.8 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 91.67  |       | P        | 32.8 |
| 4 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 37.1 |
| 5 | <input type="checkbox"/> |       |            | 88.90  |       | P        | 37.9 |
| 6 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 34.3 |
| 7 | <input type="checkbox"/> |       |            | 158.34 |       | P        | 41.8 |
| 8 | <input type="checkbox"/> |       |            | 152.78 |       | P        | 28.0 |
| 9 | <input type="checkbox"/> |       |            | 161.12 |       | P        | 19.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 17.7 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 9.2  |
| 4 | <input type="checkbox"/> |       |            | 60.00  |       | P        | 28.9 |
| 5 | <input type="checkbox"/> |       |            | 71.11  |       | P        | 25.8 |
| 6 | <input type="checkbox"/> |       |            | 93.34  |       | P        | 17.9 |
| 7 | <input type="checkbox"/> |       |            | 110.00 |       | P        | 13.2 |
| 8 | <input type="checkbox"/> |       |            | 117.78 |       | P        | 14.5 |
| 9 | <input type="checkbox"/> |       |            | 126.67 |       | P        | 30.3 |

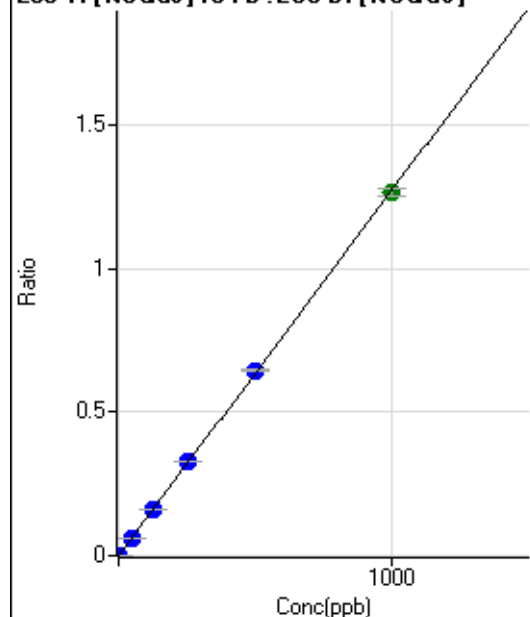
**164 Er [ No Gas ] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 66.2 |
| 2 | <input type="checkbox"/> |       |            |        |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 26.7 |
| 4 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 25.0 |
| 5 | <input type="checkbox"/> |       |            | 63.89  |       | P        | 52.7 |
| 6 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 37.1 |
| 7 | <input type="checkbox"/> |       |            | 83.34  |       | P        | 50.0 |
| 8 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 43.8 |
| 9 | <input type="checkbox"/> |       |            | 116.67 |       | P        | 50.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 22.22 |       | P        | 37.8 |
| 2 | <input type="checkbox"/> |       |            |       |       |          |      |
| 3 | <input type="checkbox"/> |       |            | 24.44 |       | P        | 41.7 |
| 4 | <input type="checkbox"/> |       |            | 21.11 |       | P        | 50.8 |
| 5 | <input type="checkbox"/> |       |            | 13.33 |       | P        | 66.2 |
| 6 | <input type="checkbox"/> |       |            | 26.67 |       | P        | 33.1 |
| 7 | <input type="checkbox"/> |       |            | 28.89 |       | P        | 99.5 |
| 8 | <input type="checkbox"/> |       |            | 42.22 |       | P        | 56.0 |
| 9 | <input type="checkbox"/> |       |            | 58.89 |       | P        | 50.7 |

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      | 216.68      | 0.0000 | P    | 10.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.899      | 10868.85    | 0.0012 | P    | 2.5  |
| 4 | <input type="checkbox"/> | 50.000   | 48.911     | 583381.66   | 0.0621 | P    | 1.8  |
| 5 | <input type="checkbox"/> | 125.000  | 125.820    | 1464231.74  | 0.1598 | P    | 0.1  |
| 6 | <input type="checkbox"/> | 250.000  | 256.662    | 2949885.18  | 0.3259 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 508.114    | 5833664.71  | 0.6451 | P    | 0.4  |
| 8 | <input type="checkbox"/> | 1000.000 | 994.230    | 11286660.58 | 1.2622 | A    | 2.0  |
| 9 | <input type="checkbox"/> |          |            | 6326.80     | 0.0008 | P    | 7.9  |

$$y = 0.0013 * x + 2.2805E-005$$

$$R = 0.9999$$

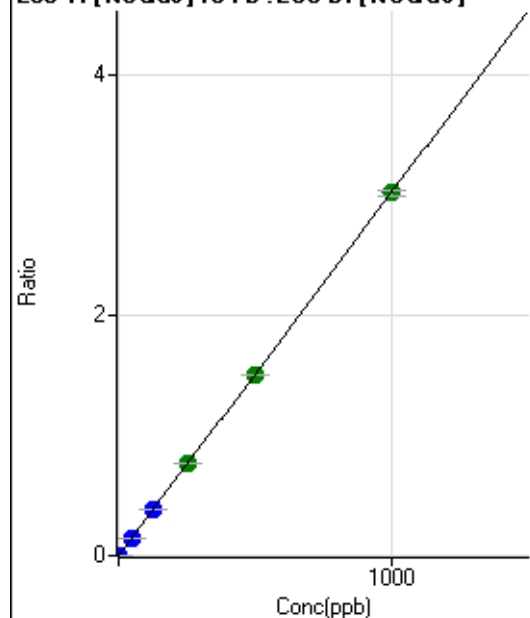
$$DL = 0.005367$$

$$BEC = 0.01796$$

Weight: &lt;None&gt;

Min Conc: 0

205 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      | 469.47      | 0.0000 | P    | 18.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.911      | 26159.83    | 0.0028 | P    | 1.9  |
| 4 | <input type="checkbox"/> | 50.000   | 49.646     | 1409285.06  | 0.1501 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 128.940    | 3571198.78  | 0.3896 | P    | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 254.621    | 6964784.88  | 0.7694 | A    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 498.903    | 13632282.42 | 1.5075 | A    | 0.3  |
| 8 | <input type="checkbox"/> | 1000.000 | 998.918    | 26990136.02 | 3.0182 | A    | 1.4  |
| 9 | <input type="checkbox"/> |          |            | 15943.50    | 0.0020 | P    | 8.1  |

$$y = 0.0030 * x + 4.9433E-005$$

$$R = 1.0000$$

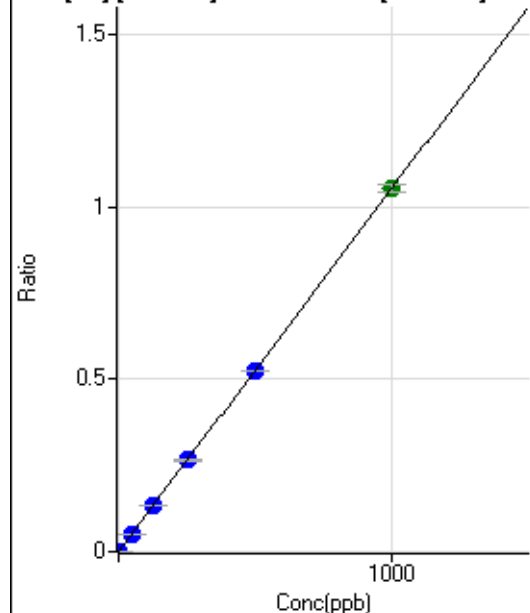
$$DL = 0.009058$$

$$BEC = 0.01636$$

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      | 1194.54    | 0.0001 | P    | 10.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |      |
| 3 | <input type="checkbox"/> | 1.000    | 1.054      | 11521.94   | 0.0012 | P    | 0.9  |
| 4 | <input type="checkbox"/> | 50.000   | 48.843     | 483647.31  | 0.0515 | P    | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 125.606    | 1211922.37 | 0.1322 | P    | 0.8  |
| 6 | <input type="checkbox"/> | 250.000  | 251.885    | 2399278.55 | 0.2650 | P    | 0.3  |
| 7 | <input type="checkbox"/> | 500.000  | 499.471    | 4751569.15 | 0.5254 | P    | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 999.776    | 9403215.95 | 1.0516 | A    | 2.2  |
| 9 | <input type="checkbox"/> |          |            | 19705.79   | 0.0025 | P    | 1.9  |

$$y = 0.0011 * x + 1.2577E-004$$

$$R = 1.0000$$

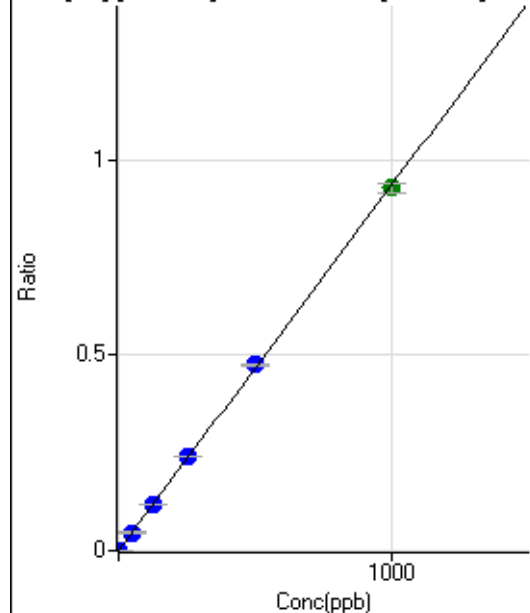
$$DL = 0.03771$$

$$BEC = 0.1196$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1038.96    | 0.0001 | P    | 1.4 |
| 2 | <input type="checkbox"/> | 0.100    |            |            |        |      |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.068      | 10339.49   | 0.0011 | P    | 2.0 |
| 4 | <input type="checkbox"/> | 50.000   | 49.689     | 437381.78  | 0.0466 | P    | 1.5 |
| 5 | <input type="checkbox"/> | 125.000  | 127.750    | 1095817.72 | 0.1196 | P    | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 258.406    | 2188231.94 | 0.2417 | P    | 0.3 |
| 7 | <input type="checkbox"/> | 500.000  | 509.427    | 4308542.34 | 0.4764 | P    | 0.7 |
| 8 | <input type="checkbox"/> | 1000.000 | 992.857    | 8301786.64 | 0.9285 | A    | 2.4 |
| 9 | <input type="checkbox"/> |          |            | 16621.89   | 0.0021 | P    | 0.7 |

$$y = 9.3503E-004 * x + 1.0937E-004$$

$$R = 0.9999$$

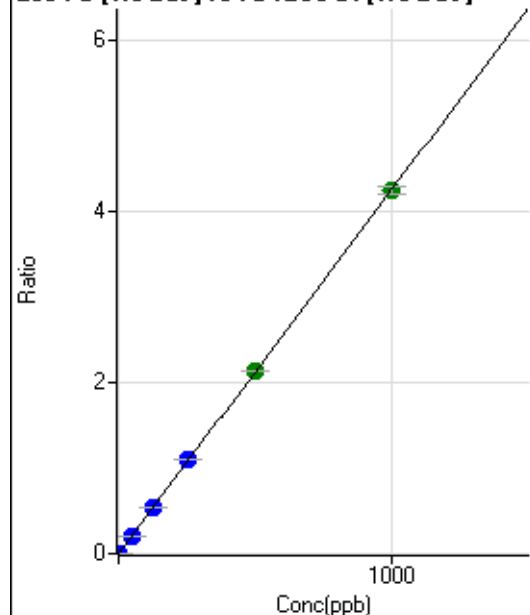
$$DL = 0.004751$$

$$BEC = 0.117$$

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<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4848.65     | 0.0005 | P        | 3.5 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |     |
| 3 | <input type="checkbox"/> | 1.000    | 1.062      | 46883.79    | 0.0050 | P        | 0.6 |
| 4 | <input type="checkbox"/> | 50.000   | 49.442     | 1977352.12  | 0.2105 | P        | 1.3 |
| 5 | <input type="checkbox"/> | 125.000  | 127.050    | 4951108.40  | 0.5402 | P        | 0.5 |
| 6 | <input type="checkbox"/> | 250.000  | 257.070    | 9889876.81  | 1.0925 | P        | 0.2 |
| 7 | <input type="checkbox"/> | 500.000  | 500.515    | 19231426.30 | 2.1266 | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1000.000 | 997.746    | 37901654.20 | 4.2388 | A        | 2.1 |
| 9 | <input type="checkbox"/> |          |            | 77716.54    | 0.0098 | P        | 1.4 |

$$y = 0.0042 * x + 5.1041E-004$$

$$R = 1.0000$$

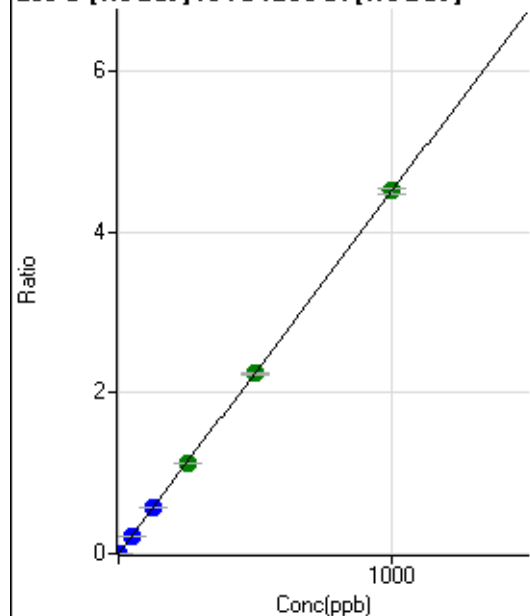
$$DL = 0.01249$$

$$BEC = 0.1202$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 202.79      | 0.0000 | P        | 25.0 |
| 2 | <input type="checkbox"/> | 0.100    |            |             |        |          |      |
| 3 | <input type="checkbox"/> | 1.000    | 0.877      | 37065.15    | 0.0040 | P        | 0.7  |
| 4 | <input type="checkbox"/> | 50.000   | 48.422     | 2047459.72  | 0.2180 | P        | 1.3  |
| 5 | <input type="checkbox"/> | 125.000  | 126.531    | 5220789.57  | 0.5696 | P        | 0.2  |
| 6 | <input type="checkbox"/> | 250.000  | 248.282    | 10117872.88 | 1.1177 | A        | 0.4  |
| 7 | <input type="checkbox"/> | 500.000  | 496.872    | 20227387.09 | 2.2368 | A        | 0.5  |
| 8 | <input type="checkbox"/> | 1000.000 | 1001.881   | 40331165.14 | 4.5101 | A        | 1.3  |
| 9 | <input type="checkbox"/> |          |            | 11330.45    | 0.0014 | P        | 5.4  |

$$y = 0.0045 * x + 2.1354E-005$$

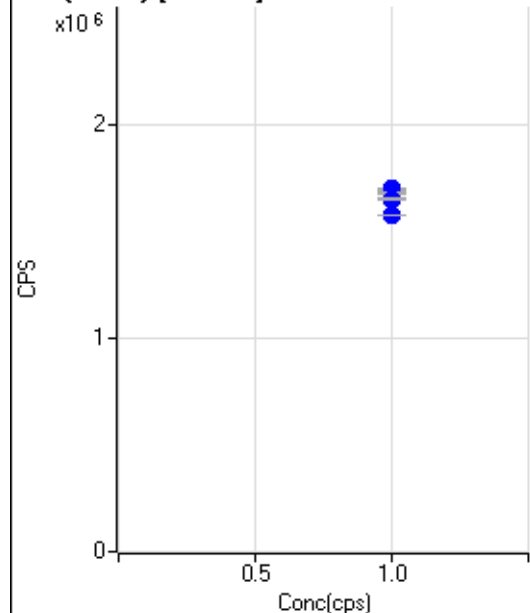
$$R = 1.0000$$

$$DL = 0.00356$$

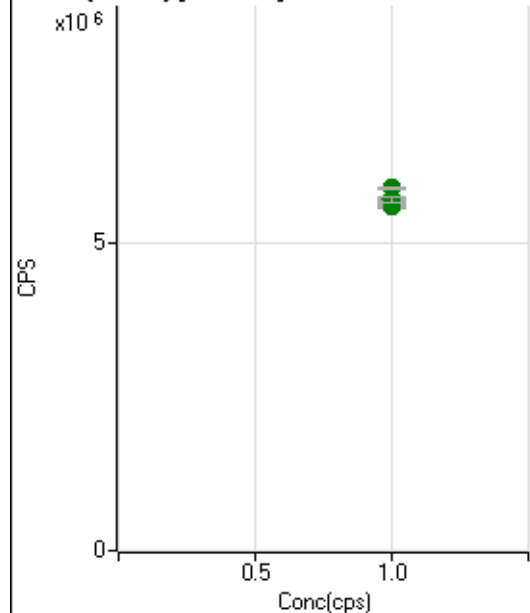
$$BEC = 0.004744$$

Weight: &lt;None&gt;

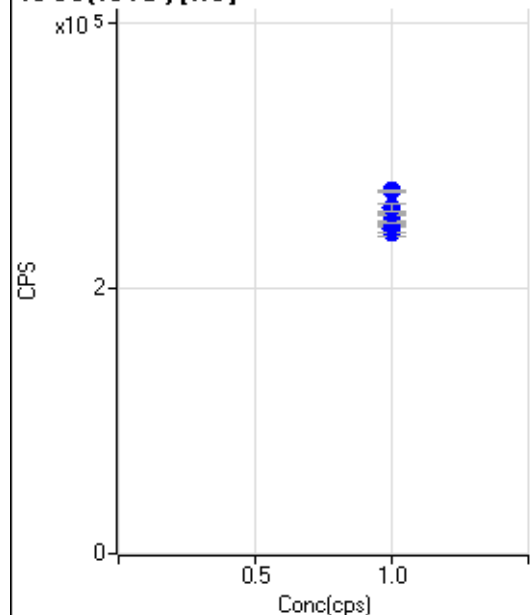
Min Conc: 0

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

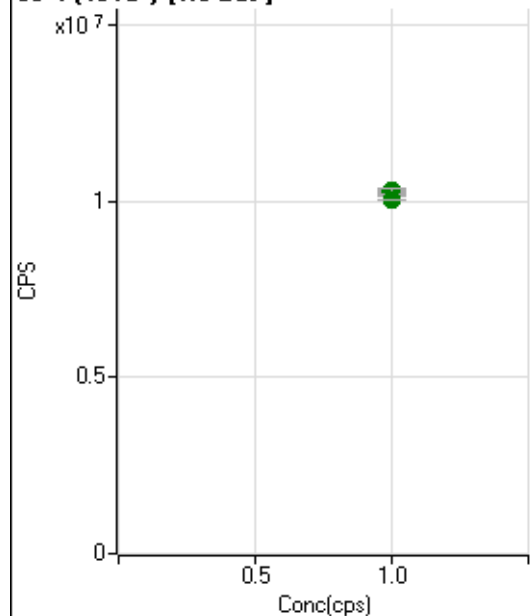
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1701321.31 |       | P        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1697667.89 |       | P        | 0.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1694913.14 |       | P        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1692207.70 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1679878.36 |       | P        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1684027.89 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1654593.60 |       | P        | 0.3 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1577007.18 |       | P        | 0.4 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5706001.52 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5612527.90 |       | A        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5607006.68 |       | A        | 0.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5598916.71 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5675178.56 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5703643.96 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5722403.08 |       | A        | 1.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 5909953.08 |       | A        | 0.7 |

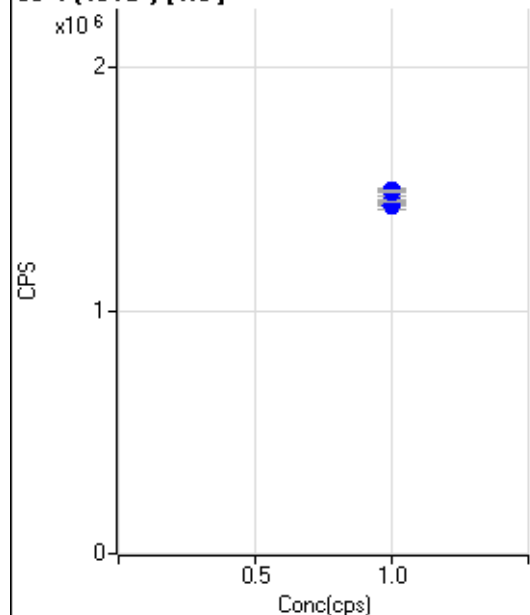
**45 Sc(ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 245729.71 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |           |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 242354.78 |       | P        | 3.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 244984.65 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 247305.56 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 250296.50 |       | P        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 255564.93 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 260358.16 |       | P        | 2.0 |
| 9 | <input type="checkbox"/> | 1.000 |            | 273073.48 |       | P        | 0.4 |

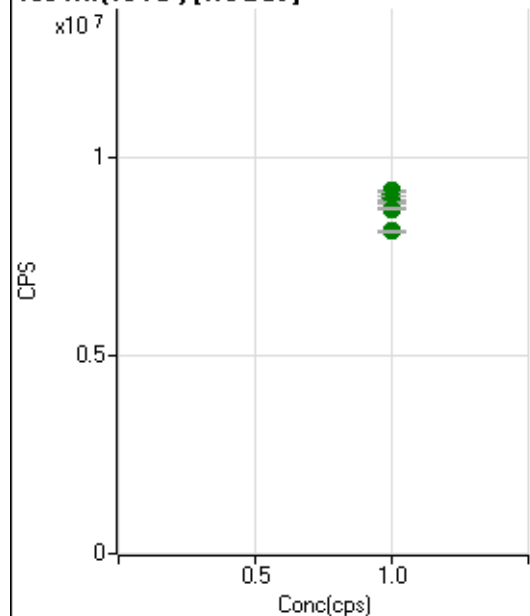
**89 Y(ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10258934.43 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10193759.22 |       | A        | 0.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10180937.35 |       | A        | 0.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10217042.49 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10165722.97 |       | A        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10253318.46 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10295168.11 |       | A        | 1.7 |
| 9 | <input type="checkbox"/> | 1.000 |            | 10046699.50 |       | A        | 0.1 |

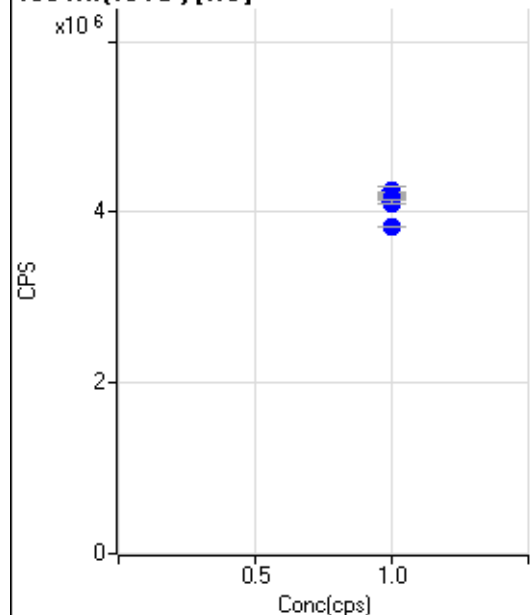


**89 Y (ISTD) [He]**

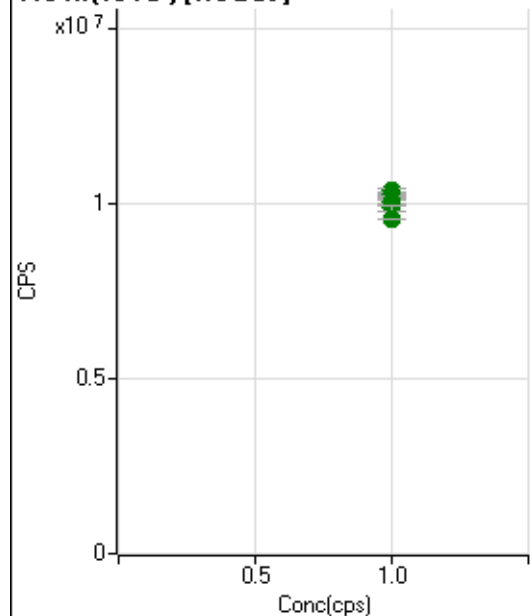
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1437606.63 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1436724.51 |       | P        | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1431649.53 |       | P        | 1.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1441421.84 |       | P        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1454147.01 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1453158.38 |       | P        | 0.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1487735.08 |       | P        | 1.9 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1493884.74 |       | P        | 0.2 |

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

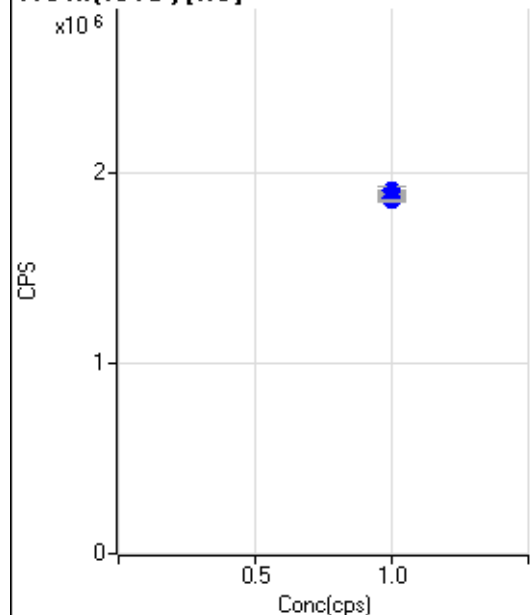
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9169706.11 |       | A        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9161868.43 |       | A        | 0.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9090670.26 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8986926.33 |       | A        | 1.0 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8910557.67 |       | A        | 0.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8884188.65 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8722938.65 |       | A        | 0.4 |
| 9 | <input type="checkbox"/> | 1.000 |            | 8160051.57 |       | A        | 0.6 |

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

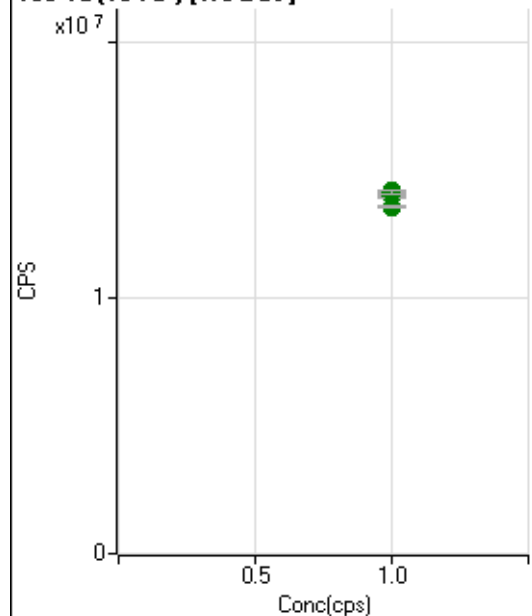
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4229786.95 |       | P        | 0.1 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 4251122.96 |       | P        | 2.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 4186919.07 |       | P        | 1.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 4179134.35 |       | P        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 4166426.15 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 4101004.59 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 4123676.92 |       | P        | 1.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 3834654.42 |       | P        | 0.3 |

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

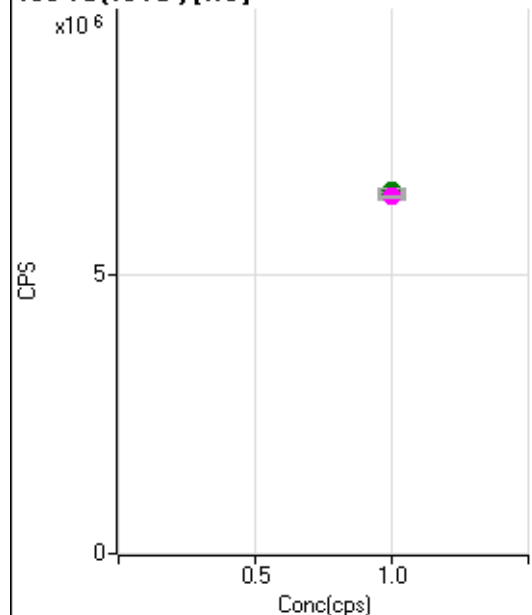
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 10358654.45 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 10222193.75 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10269050.85 |       | A        | 1.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10195244.00 |       | A        | 0.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 10033065.46 |       | A        | 0.9 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10015188.51 |       | A        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 9862854.63  |       | A        | 2.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 9560573.73  |       | A        | 0.2 |

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

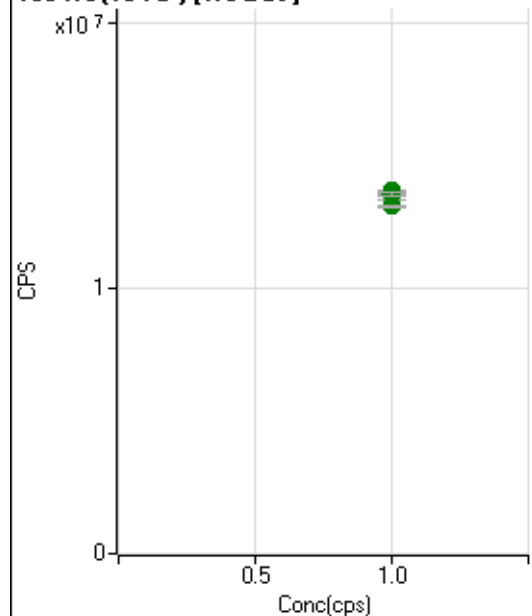
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1904980.35 |       | P        | 0.2 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 1903971.15 |       | P        | 2.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1881325.38 |       | P        | 1.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1879327.13 |       | P        | 0.3 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1890874.32 |       | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1869619.73 |       | P        | 0.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1866705.66 |       | P        | 1.8 |
| 9 | <input type="checkbox"/> | 1.000 |            | 1854414.00 |       | P        | 0.2 |

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

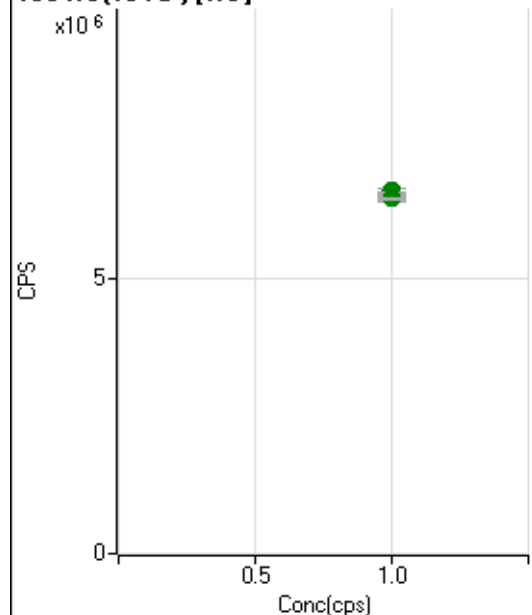
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 14141677.43 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 14155853.26 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 14172159.79 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 14020326.18 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13974079.65 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 14090846.59 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 14124608.54 |       | A        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13529453.13 |       | A        | 0.5 |

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

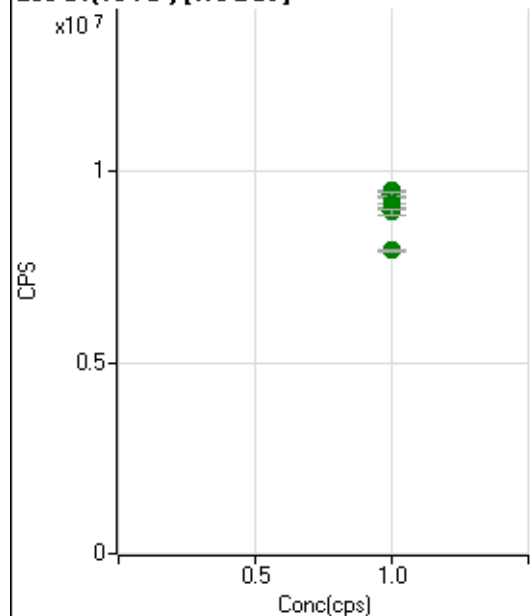
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6467617.75 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6464645.88 |       | A        | 2.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6416888.93 |       | M        | 2.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6508376.29 |       | M        | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6428753.24 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6449657.40 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6508503.93 |       | A        | 1.2 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6400476.43 |       | M        | 0.9 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS         | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 13627276.00 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            |             |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 13568044.57 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 13473745.61 |       | A        | 1.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 13619496.14 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 13689764.02 |       | A        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 13581291.97 |       | A        | 0.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 13566836.15 |       | A        | 1.1 |
| 9 | <input type="checkbox"/> | 1.000 |            | 13102683.36 |       | A        | 0.6 |

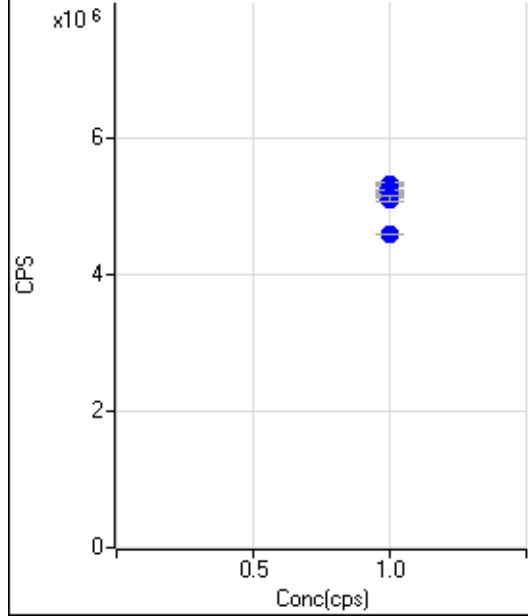
**165 Ho(ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6582518.51 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 6504424.07 |       | A        | 1.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 6452495.60 |       | A        | 1.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6470178.17 |       | A        | 0.2 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6461170.67 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 6472764.35 |       | A        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 6553267.20 |       | A        | 0.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 6450444.90 |       | A        | 0.6 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9500067.91 |       | A        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 9333555.42 |       | A        | 0.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 9392898.12 |       | A        | 1.1 |
| 5 | <input type="checkbox"/> | 1.000 |            | 9165476.11 |       | A        | 0.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 9052492.57 |       | A        | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 9043171.74 |       | A        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8943593.69 |       | A        | 1.5 |
| 9 | <input type="checkbox"/> | 1.000 |            | 7933437.31 |       | A        | 0.4 |

209 Bi(ISTD) [He]



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 5323753.78 |       | P        | 0.3 |
| 2 | <input type="checkbox"/> | 1.000 |            |            |       |          |     |
| 3 | <input type="checkbox"/> | 1.000 |            | 5286606.73 |       | P        | 2.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5245749.22 |       | P        | 2.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 5246983.22 |       | P        | 0.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5221798.01 |       | P        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5144562.70 |       | P        | 0.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5114229.51 |       | P        | 1.6 |
| 9 | <input type="checkbox"/> | 1.000 |            | 4596054.90 |       | P        | 0.3 |

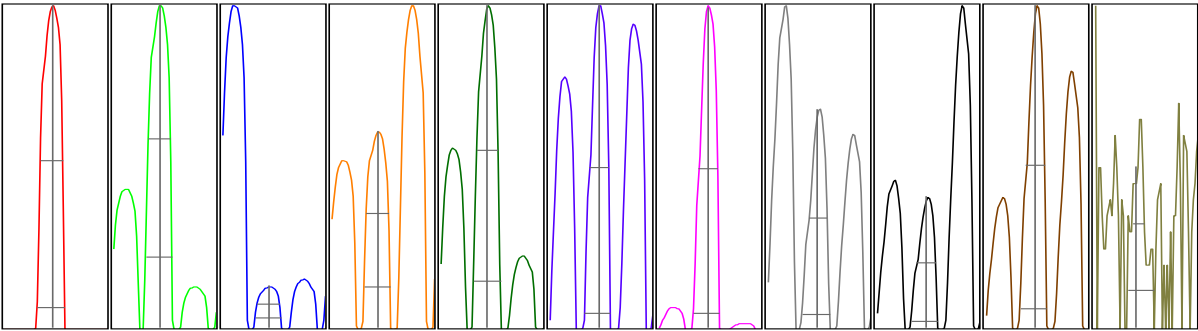
US EPA Tune Check Sample Report

Batch Folder D:\ICP-MS Data\P7062217.b  
Report Comment  
Instrument Name G8403A JP14410463

| [No Gas] |                 |                  |                    |                |
|----------|-----------------|------------------|--------------------|----------------|
| Mass     | Count<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) | RSD%<br>(Flag) |
| 9        | 9080            | 0.42             | 5.00               |                |
| 24       | 135314          | 0.39             | 5.00               |                |
| 25       | 18544           | 0.23             | 5.00               |                |
| 26       | 22138           | 0.28             | 5.00               |                |
| 59       | 96846           | 0.29             | 5.00               |                |
| 113      | 15022           | 0.35             | 5.00               |                |
| 115      | 208878          | 0.33             | 5.00               |                |
| 206      | 45037           | 0.51             | 5.00               |                |
| 207      | 39895           | 0.30             | 5.00               |                |
| 208      | 96545           | 0.71             | 5.00               |                |
| 220      | 0               | 22.59            |                    |                |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 9    | 9034                 | 9073                 | 9067                 | 9086                 | 9140                 |
| 24   | 134672               | 134860               | 135425               | 135750               | 135865               |
| 25   | 18510                | 18505                | 18577                | 18526                | 18600                |
| 26   | 22053                | 22180                | 22089                | 22186                | 22181                |
| 59   | 96408                | 96716                | 96989                | 97046                | 97070                |
| 113  | 14936                | 15051                | 15070                | 15015                | 15039                |
| 115  | 209972               | 208763               | 208270               | 208357               | 209028               |
| 206  | 44696                | 44935                | 45211                | 45087                | 45257                |
| 207  | 39803                | 39819                | 39815                | 39970                | 40070                |
| 208  | 95892                | 96136                | 96235                | 96874                | 97589                |
| 220  | 0                    | 0                    | 0                    | 0                    | 0                    |

Integration Time [sec] = 0.1



| Mass | Peak<br>Height | Axis<br>(Actual) | Axis<br>(Required) | Axis<br>(Flag) | Width-X%<br>(Actual) | Width-X%<br>(Required) | Width-<br>X%<br>(Flag) |
|------|----------------|------------------|--------------------|----------------|----------------------|------------------------|------------------------|
| 9    | 14737          | 8.95             | 8.9 - 9.1          |                | 0.802                | 0.900                  |                        |
| 24   | 219127         | 23.90            | 23.9 - 24.1        |                | 0.763                | 0.900                  |                        |
| 25   | 28913          | 24.90            | 24.9 - 25.1        |                | 0.745                | 0.900                  |                        |
| 26   | 33828          | 25.90            | 25.9 - 26.1        |                | 0.750                | 0.900                  |                        |
| 59   | 163678         | 58.90            | 58.9 - 59.1        |                | 0.778                | 0.900                  |                        |
| 113  | 27463          | 113.00           | 112.9 - 113.1      |                | 0.739                | 0.900                  |                        |
| 115  | 386300         | 115.00           | 114.9 - 115.1      |                | 0.756                | 0.900                  |                        |
| 206  | 84203          | 206.00           | 205.9 - 206.1      |                | 0.815                | 0.900                  |                        |
| 207  | 74660          | 207.00           | 206.9 - 207.1      |                | 0.777                | 0.900                  |                        |
| 208  | 183593         | 208.00           | 207.9 - 208.1      |                | 0.778                | 0.900                  |                        |
| 220  | 1              | 219.75           | -                  |                | 0.759                |                        |                        |

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    | 8.8   | V    | Deflect       | 13.8  | V    |
| Extract 2     | -150.0 | V    | Cell Entrance | -30   | V    | Plate Bias    | -35   | V    |
| Omega Bias    | -70    | 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<br>(Mean) | RSD%<br>(Actual) | RSD%<br>(Required) |
|------|-----------------|------------------|--------------------|
| 59   | 24975           | 0.27             |                    |
| 89   | 6859            | 0.50             |                    |
| 205  | 38073           | 0.14             |                    |

| Mass | Replicate 1<br>Count | Replicate 2<br>Count | Replicate 3<br>Count | Replicate 4<br>Count | Replicate 5<br>Count |
|------|----------------------|----------------------|----------------------|----------------------|----------------------|
| 59   | 24858                | 25012                | 25022                | 24986                | 24997                |
| 89   | 6899                 | 6854                 | 6889                 | 6814                 | 6841                 |
| 205  | 38047                | 38061                | 38092                | 38014                | 38151                |

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    | 8.8   | V    | Deflect       | 1.8   | V    |
| Extract 2     | -150.0 | V    | Cell Entrance | -40   | V    | Plate Bias    | -60   | V    |
| Omega Bias    | -75    | 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    |                       |       |       |