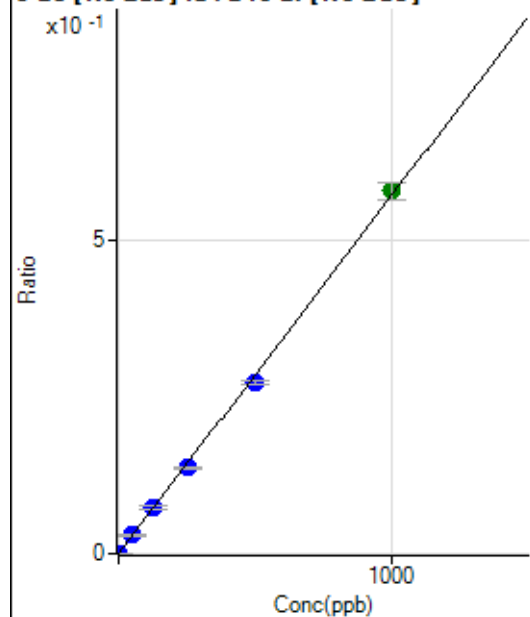


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8071223 MS.b\  
Analysis File: P8071223 MS.batch.bin  
DA Date-Time: 2023-07-13 00:23:33  
Calibration Title:  
Calibration Method: External Calibration  
VIS Interpolation Fit:

| Level | Standard Data File | Sample Name | Acq. Date-Time      |
|-------|--------------------|-------------|---------------------|
| 1     | 004CALB.d          | S00         | 2023-07-12 12:09:14 |
| 2     | 005CALS.d          | S02         | 2023-07-12 12:12:16 |
| 3     | 006CALS.d          | S03         | 2023-07-12 12:15:20 |
| 4     | 007CALS.d          | S04         | 2023-07-12 12:18:18 |
| 5     | 008CALS.d          | S05         | 2023-07-12 12:21:19 |
| 6     | 009CALS.d          | S06         | 2023-07-12 12:24:17 |
| 7     | 010CALS.d          | S07         | 2023-07-12 12:27:18 |
| 8     | 011CALS.d          | S08         | 2023-07-12 12:30:16 |

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 27.50      | 0.0000 | P    | 16.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.988      | 1510.31    | 0.0006 | P    | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 51.041     | 72184.15   | 0.0292 | P    | 4.5  |
| 4 | <input type="checkbox"/> | 125.000  | 129.205    | 170713.20  | 0.0739 | P    | 8.5  |
| 5 | <input type="checkbox"/> | 250.000  | 239.879    | 320875.91  | 0.1371 | P    | 0.9  |
| 6 | <input type="checkbox"/> | 500.000  | 476.986    | 610456.96  | 0.2726 | P    | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1013.460   | 1229631.46 | 0.5793 | A    | 4.8  |
| 8 | <input type="checkbox"/> |          |            | 262.47     | 0.0001 | P    | 13.9 |

$$y = 5.7157\text{E-}004 * x + 1.0563\text{E-}005$$

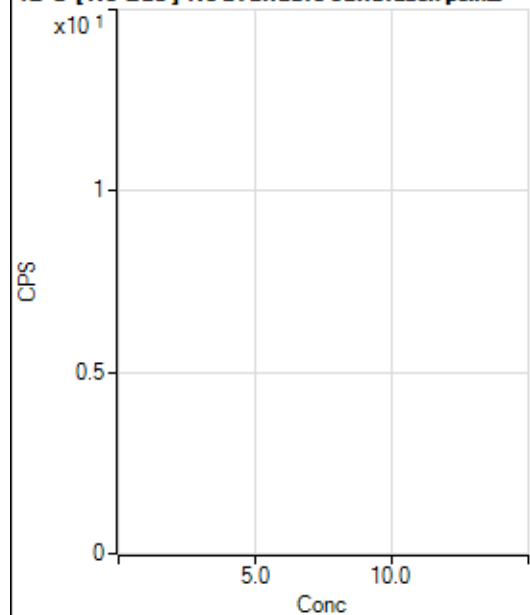
$$R = 0.9995$$

$$DL = 0.009038$$

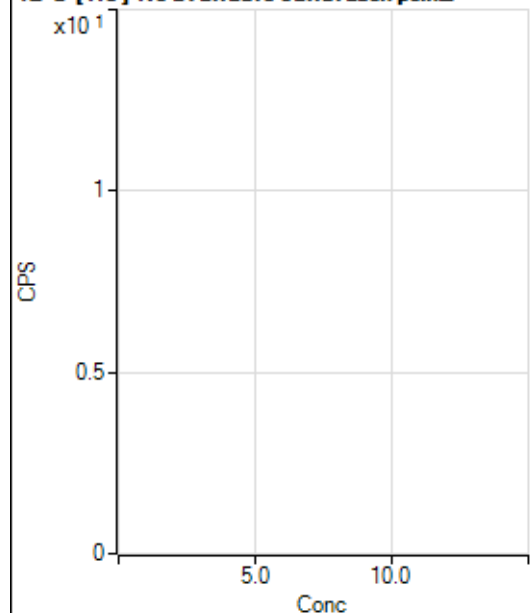
$$BEC = 0.01848$$

Weight: &lt;None&gt;

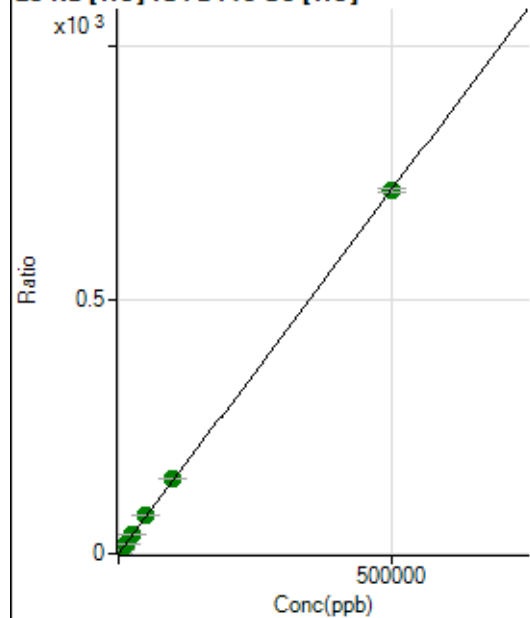
Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> |       |            | 2342645.15 |       | A    | 1.2 |
| 2 | <input type="checkbox"/> |       |            | 2315175.66 |       | A    | 1.2 |
| 3 | <input type="checkbox"/> |       |            | 2528228.73 |       | A    | 1.4 |
| 4 | <input type="checkbox"/> |       |            | 2481670.78 |       | A    | 0.2 |
| 5 | <input type="checkbox"/> |       |            | 2385645.65 |       | A    | 1.4 |
| 6 | <input type="checkbox"/> |       |            | 2442886.55 |       | A    | 1.1 |
| 7 | <input type="checkbox"/> |       |            | 2508340.38 |       | A    | 3.1 |
| 8 | <input type="checkbox"/> |       |            | 2363346.88 |       | A    | 3.0 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 29591.46 |       | P        | 3.4 |
| 2 | <input type="checkbox"/> |       |            | 29443.98 |       | P        | 1.5 |
| 3 | <input type="checkbox"/> |       |            | 31178.06 |       | P        | 0.8 |
| 4 | <input type="checkbox"/> |       |            | 30810.79 |       | P        | 1.6 |
| 5 | <input type="checkbox"/> |       |            | 30621.29 |       | P        | 1.4 |
| 6 | <input type="checkbox"/> |       |            | 32428.01 |       | P        | 0.3 |
| 7 | <input type="checkbox"/> |       |            | 34680.43 |       | P        | 3.9 |
| 8 | <input type="checkbox"/> |       |            | 34847.47 |       | P        | 1.5 |

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 20353.51    | 0.1367   | P        | 2.0 |
| 2 | <input type="checkbox"/> | 500.000   | 484.701    | 121660.68   | 0.8302   | P        | 1.7 |
| 3 | <input type="checkbox"/> | 5000.000  | 5576.341   | 1136230.87  | 8.1148   | A        | 1.6 |
| 4 | <input type="checkbox"/> | 12500.000 | 13568.820  | 2629601.60  | 19.5497  | A        | 0.6 |
| 5 | <input type="checkbox"/> | 25000.000 | 25734.071  | 4921470.64  | 36.9546  | A        | 4.9 |
| 6 | <input type="checkbox"/> | 50000.000 | 53378.812  | 9917915.06  | 76.5060  | A        | 1.4 |
| 7 | <input type="checkbox"/> | 100000.00 | 103501.81  | 19873362.42 | 148.2173 | A        | 1.4 |
| 8 | <input type="checkbox"/> | 500000.00 | 498892.58  | 95545543.11 | 713.9047 | A        | 0.9 |

$$y = 0.0014 * x + 0.1367$$

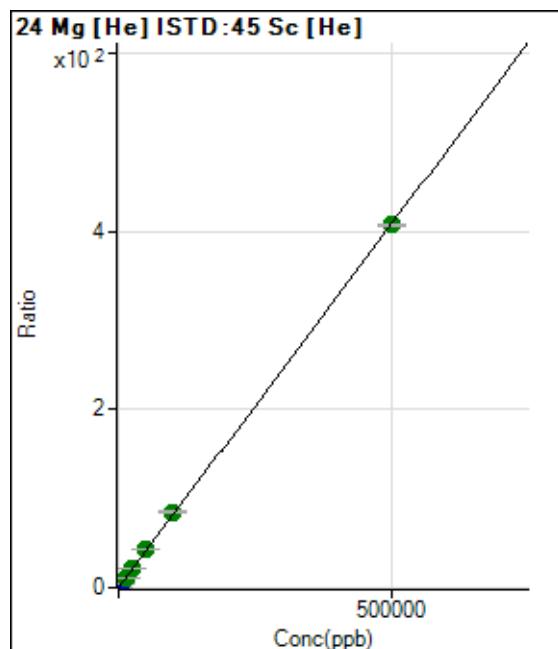
$$R = 1.0000$$

$$DL = 5.722$$

$$BEC = 95.56$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 75.00       | 0.0005   | P    | 68.2 |
| 2 | <input type="checkbox"/> | 500.000   | 480.583    | 57528.53    | 0.3926   | P    | 2.1  |
| 3 | <input type="checkbox"/> | 5000.000  | 5371.637   | 613639.56   | 4.3826   | P    | 1.8  |
| 4 | <input type="checkbox"/> | 12500.000 | 13767.603  | 1510656.59  | 11.2320  | A    | 1.7  |
| 5 | <input type="checkbox"/> | 25000.000 | 26085.991  | 2834248.85  | 21.2812  | A    | 4.7  |
| 6 | <input type="checkbox"/> | 50000.000 | 52833.024  | 5587332.41  | 43.1013  | A    | 1.8  |
| 7 | <input type="checkbox"/> | 100000.00 | 103692.44  | 11342111.97 | 84.5920  | A    | 1.6  |
| 8 | <input type="checkbox"/> | 500000.00 | 498888.52  | 54470326.91 | 406.9897 | A    | 0.3  |

$$y = 8.1579\text{E-}004 * x + 5.0506\text{E-}004$$

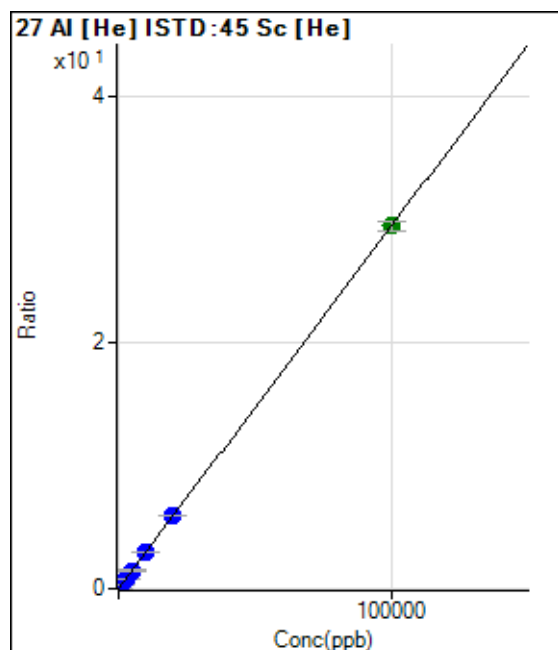
$$R = 1.0000$$

$$DL = 1.266$$

$$BEC = 0.6191$$

Weight: <None>

Min Conc: 0



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 102.91     | 0.0007  | P    | 3.2 |
| 2 | <input type="checkbox"/> | 20.000    | 19.313     | 934.92     | 0.0064  | P    | 1.8 |
| 3 | <input type="checkbox"/> | 1000.000  | 1054.996   | 43589.33   | 0.3113  | P    | 0.6 |
| 4 | <input type="checkbox"/> | 2500.000  | 2578.388   | 102196.62  | 0.7598  | P    | 1.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 4926.850   | 193268.65  | 1.4512  | P    | 4.8 |
| 6 | <input type="checkbox"/> | 10000.000 | 10180.422  | 388642.18  | 2.9979  | P    | 0.8 |
| 7 | <input type="checkbox"/> | 20000.000 | 19935.137  | 787093.98  | 5.8699  | P    | 0.6 |
| 8 | <input type="checkbox"/> | 100000.00 | 99996.078  | 3939917.36 | 29.4408 | A    | 2.5 |

$$y = 2.9441\text{E-}004 * x + 6.9131\text{E-}004$$

$$R = 1.0000$$

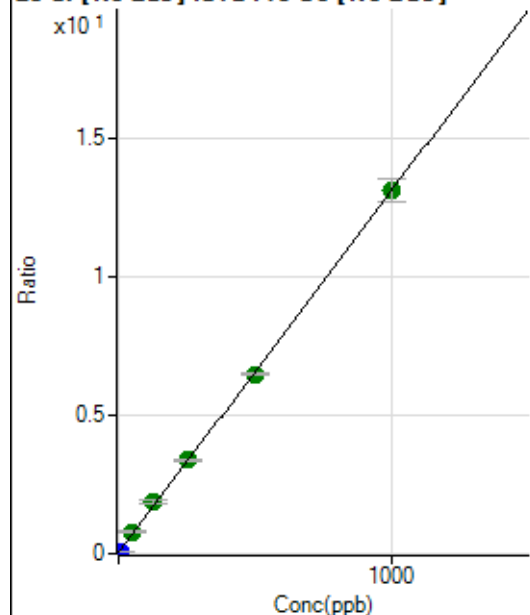
$$DL = 0.2261$$

$$BEC = 2.348$$

Weight: <None>

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio   | Det<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|---------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 176439.60   | 0.0405  | P        | 0.7  |
| 2 | <input type="checkbox"/> | 10.000   | 0.661      | 210875.84   | 0.0492  | P        | 1.8  |
| 3 | <input type="checkbox"/> | 50.000   | 56.832     | 3120866.80  | 0.7825  | A        | 7.5  |
| 4 | <input type="checkbox"/> | 125.000  | 138.468    | 7019926.46  | 1.8483  | A        | 8.1  |
| 5 | <input type="checkbox"/> | 250.000  | 256.169    | 13285599.60 | 3.3849  | A        | 2.5  |
| 6 | <input type="checkbox"/> | 500.000  | 493.679    | 25324063.93 | 6.4857  | A        | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.686    | 49579840.35 | 13.0918 | A        | 6.2  |
| 8 | <input type="checkbox"/> |          |            | 759609.40   | 0.2106  | P        | 16.5 |

$$y = 0.0131 * x + 0.0405$$

$$R = 0.9998$$

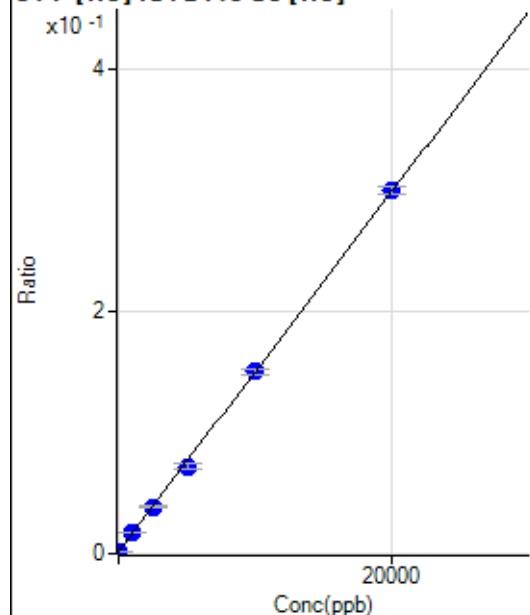
$$DL = 0.06132$$

$$BEC = 3.104$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS      | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|----------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | -8.137     | 252.78   | 0.0017 | P        | 29.5 |
| 2 | <input type="checkbox"/> | 0.000     | 8.137      | 283.34   | 0.0019 | P        | 21.0 |
| 3 | <input type="checkbox"/> | 1000.000  | 1032.698   | 2400.27  | 0.0171 | P        | 1.4  |
| 4 | <input type="checkbox"/> | 2500.000  | 2457.693   | 5148.26  | 0.0383 | P        | 4.0  |
| 5 | <input type="checkbox"/> | 5000.000  | 4726.797   | 9581.21  | 0.0720 | P        | 5.2  |
| 6 | <input type="checkbox"/> | 10000.000 | 10017.075  | 19502.43 | 0.1504 | P        | 3.2  |
| 7 | <input type="checkbox"/> | 20000.000 | 20063.417  | 40158.93 | 0.2995 | P        | 2.3  |
| 8 | <input type="checkbox"/> |           |            | 216.67   | 0.0016 | P        | 19.5 |

$$y = 1.4838E-005 * x + 0.0018$$

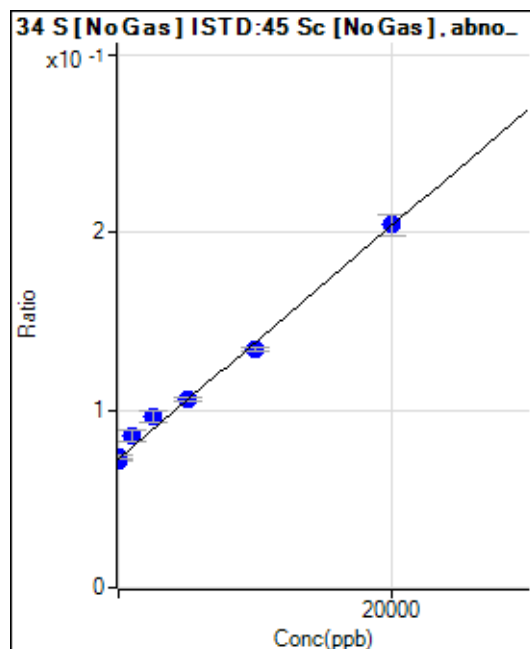
$$R = 0.9999$$

$$DL = 91.59$$

$$BEC = 122.5$$

Weight: &lt;None&gt;

Min Conc: 0



|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS       | Ratio  | Det<br>. | RSD |
|---|--------------------------|-----------|------------|-----------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000     | -142.033   | 312135.98 | 0.0717 | P        | 1.0 |
| 2 | <input type="checkbox"/> | 0.000     | 142.033    | 315554.01 | 0.0736 | P        | 2.3 |
| 3 | <input type="checkbox"/> | 1000.000  | 1965.609   | 341180.05 | 0.0855 | P        | 7.1 |
| 4 | <input type="checkbox"/> | 2500.000  | 3631.464   | 366698.86 | 0.0965 | P        | 6.2 |
| 5 | <input type="checkbox"/> | 5000.000  | 5137.690   | 417461.67 | 0.1064 | P        | 2.2 |
| 6 | <input type="checkbox"/> | 10000.000 | 9423.765   | 525094.67 | 0.1345 | P        | 1.2 |
| 7 | <input type="checkbox"/> | 20000.000 | 20063.982  | 773992.49 | 0.2044 | P        | 6.0 |
| 8 | <input type="checkbox"/> |           |            | 273045.24 | 0.0755 | P        | 7.1 |

$$y = 6.5659\text{E-}006 * x + 0.0726$$

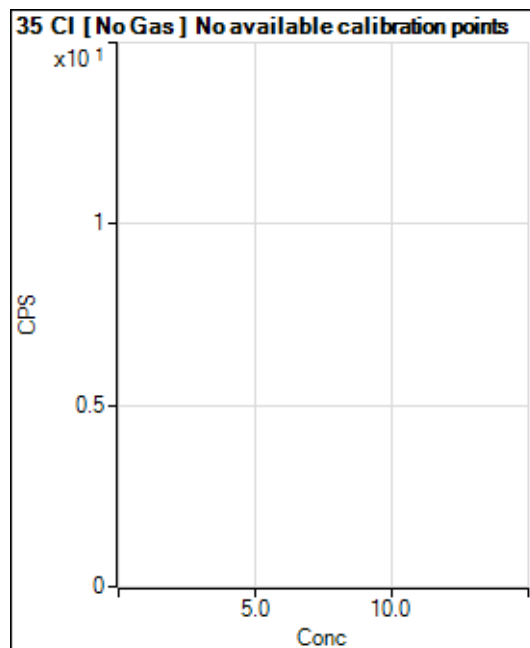
$$R = 0.9969$$

$$DL = 563.2$$

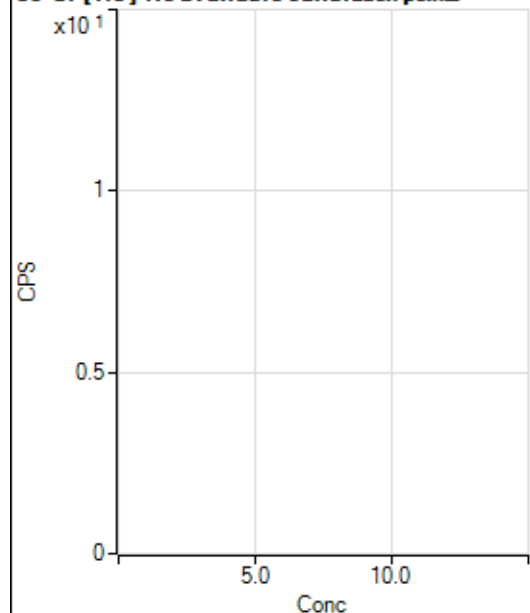
$$BEC = 1.106\text{E}+04$$

Weight: <None>

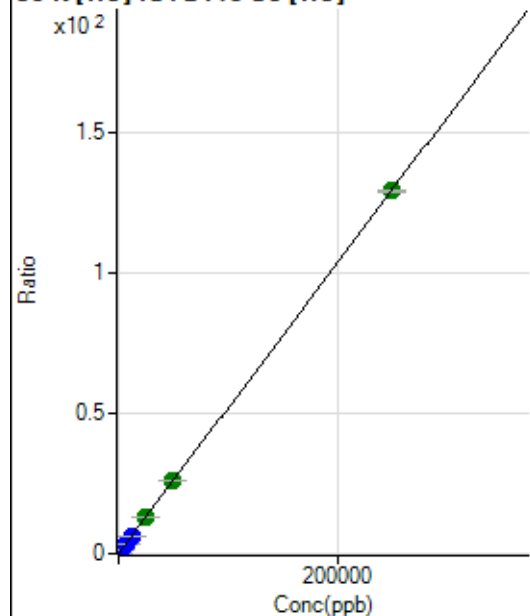
Min Conc: 0



|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 92860.89  |       | P        | 3.3 |
| 2 | <input type="checkbox"/> |       |            | 95105.90  |       | P        | 2.9 |
| 3 | <input type="checkbox"/> |       |            | 136610.42 |       | P        | 1.0 |
| 4 | <input type="checkbox"/> |       |            | 131409.75 |       | P        | 1.1 |
| 5 | <input type="checkbox"/> |       |            | 124916.40 |       | P        | 0.1 |
| 6 | <input type="checkbox"/> |       |            | 122636.51 |       | P        | 1.8 |
| 7 | <input type="checkbox"/> |       |            | 122238.72 |       | P        | 1.7 |
| 8 | <input type="checkbox"/> |       |            | 136391.31 |       | P        | 2.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 705.59  |       | P        | 9.5  |
| 2 | <input type="checkbox"/> |       |            | 716.71  |       | P        | 9.3  |
| 3 | <input type="checkbox"/> |       |            | 1044.52 |       | P        | 15.4 |
| 4 | <input type="checkbox"/> |       |            | 933.39  |       | P        | 11.8 |
| 5 | <input type="checkbox"/> |       |            | 952.83  |       | P        | 15.8 |
| 6 | <input type="checkbox"/> |       |            | 850.05  |       | P        | 8.5  |
| 7 | <input type="checkbox"/> |       |            | 986.18  |       | P        | 14.0 |
| 8 | <input type="checkbox"/> |       |            | 1152.86 |       | P        | 10.1 |

**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      | 10262.29    | 0.0689   | P        | 1.0 |
| 2 | <input type="checkbox"/> | 500.000   | 461.927    | 45157.58    | 0.3081   | P        | 1.6 |
| 3 | <input type="checkbox"/> | 2500.000  | 2533.612   | 193324.52   | 1.3806   | P        | 0.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6186.305   | 440058.14   | 3.2717   | P        | 2.0 |
| 5 | <input type="checkbox"/> | 12500.000 | 11769.699  | 820863.53   | 6.1623   | P        | 3.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 25372.359  | 1711912.20  | 13.2046  | A        | 1.8 |
| 7 | <input type="checkbox"/> | 50000.000 | 50424.732  | 3510249.12  | 26.1746  | A        | 0.9 |
| 8 | <input type="checkbox"/> | 250000.00 | 249915.66  | 17325119.66 | 129.4540 | A        | 0.8 |

$$y = 5.1771\text{E-}004 * x + 0.0689$$

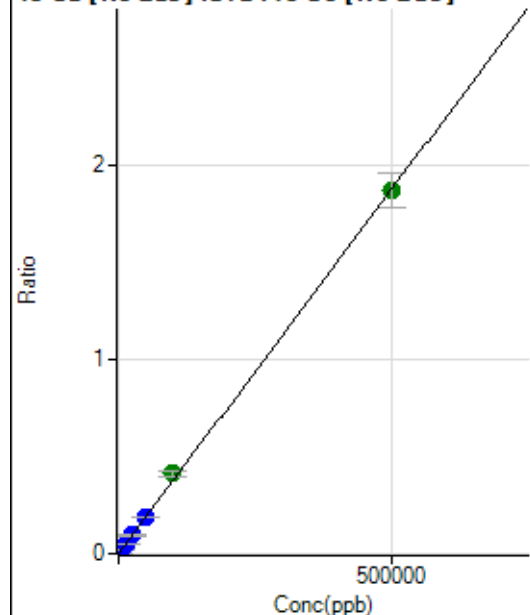
$$R = 1.0000$$

$$DL = 4.044$$

$$BEC = 133.2$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|-----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 253.72     | 0.0001 | P    | 3.7 |
| 2 | <input type="checkbox"/> | 500.000   | 432.127    | 7192.58    | 0.0017 | P    | 3.4 |
| 3 | <input type="checkbox"/> | 5000.000  | 5468.159   | 81944.21   | 0.0205 | P    | 6.7 |
| 4 | <input type="checkbox"/> | 12500.000 | 13663.418  | 194597.12  | 0.0512 | P    | 8.1 |
| 5 | <input type="checkbox"/> | 25000.000 | 25147.023  | 369943.28  | 0.0942 | P    | 2.0 |
| 6 | <input type="checkbox"/> | 50000.000 | 49372.763  | 722149.27  | 0.1850 | P    | 2.2 |
| 7 | <input type="checkbox"/> | 100000.00 | 110031.79  | 1560345.02 | 0.4122 | A    | 7.6 |
| 8 | <input type="checkbox"/> | 500000.00 | 498015.31  | 6736010.51 | 1.8654 | A    | 9.4 |

$$y = 3.7455\text{E-}006 * x + 5.8285\text{E-}005$$

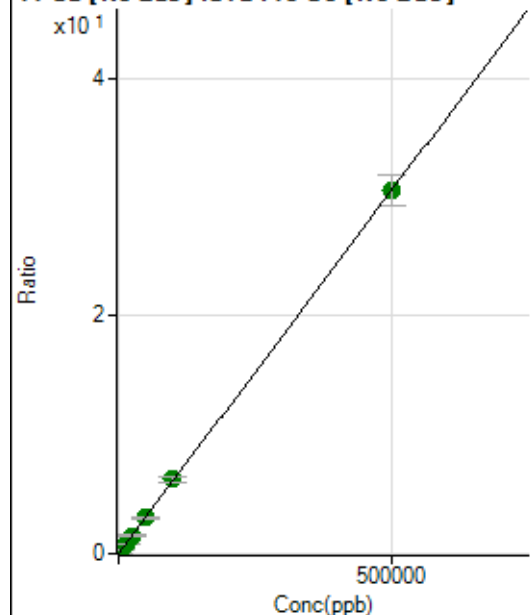
$$R = 0.9998$$

$$DL = 1.72$$

$$BEC = 15.56$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 28454.41    | 0.0065  | P    | 1.1 |
| 2 | <input type="checkbox"/> | 500.000   | 436.588    | 142327.06   | 0.0332  | P    | 2.8 |
| 3 | <input type="checkbox"/> | 5000.000  | 5378.982   | 1336026.05  | 0.3348  | A    | 6.2 |
| 4 | <input type="checkbox"/> | 12500.000 | 13409.951  | 3133769.30  | 0.8249  | A    | 7.8 |
| 5 | <input type="checkbox"/> | 25000.000 | 24830.132  | 5973834.85  | 1.5218  | A    | 1.9 |
| 6 | <input type="checkbox"/> | 50000.000 | 49487.637  | 11814656.83 | 3.0266  | A    | 2.6 |
| 7 | <input type="checkbox"/> | 100000.00 | 102022.80  | 23600225.42 | 6.2326  | A    | 6.7 |
| 8 | <input type="checkbox"/> | 500000.00 | 499628.69  | 110160001.0 | 30.4969 | A    | 8.6 |

$$y = 6.1026\text{E-}005 * x + 0.0065$$

$$R = 1.0000$$

$$DL = 3.611$$

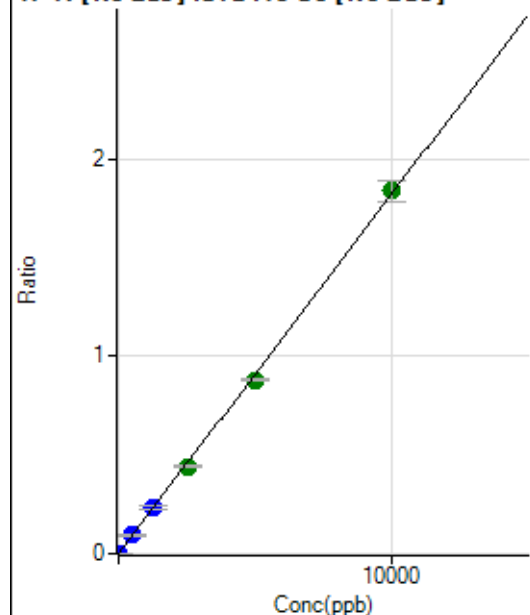
$$BEC = 107.1$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 175.00     | 0.0000 | P    | 20.3 |
| 2 | <input type="checkbox"/> | 5.000     | 4.483      | 3672.79    | 0.0009 | P    | 1.4  |
| 3 | <input type="checkbox"/> | 500.000   | 512.003    | 371899.76  | 0.0932 | P    | 6.1  |
| 4 | <input type="checkbox"/> | 1250.000  | 1291.335   | 892745.15  | 0.2350 | P    | 7.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2425.947   | 1732609.85 | 0.4414 | A    | 2.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4834.709   | 3434062.88 | 0.8796 | A    | 1.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 10095.392  | 6956230.54 | 1.8368 | A    | 6.1  |
| 8 | <input type="checkbox"/> |           |            | 1897.54    | 0.0005 | P    | 25.2 |

$$y = 1.8194\text{E-}004 * x + 4.0253\text{E-}005$$

$$R = 0.9997$$

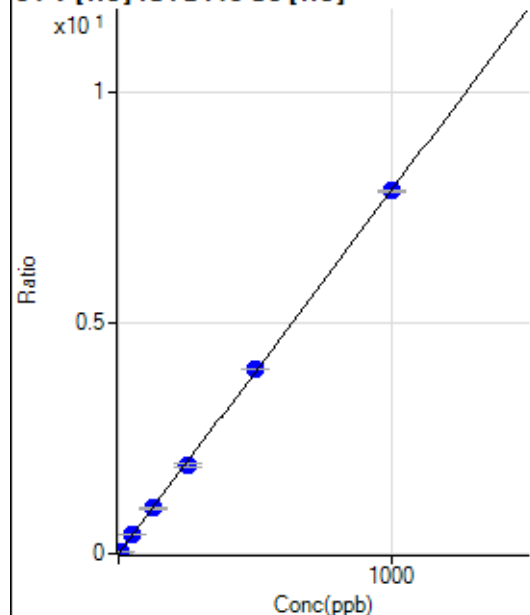
$$DL = 0.1346$$

$$BEC = 0.2212$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 17.78      | 0.0001 | P    | 29.2 |
| 2 | <input type="checkbox"/> | 5.000    | 4.719      | 5466.65    | 0.0373 | P    | 2.5  |
| 3 | <input type="checkbox"/> | 50.000   | 51.464     | 56796.67   | 0.4056 | P    | 1.7  |
| 4 | <input type="checkbox"/> | 125.000  | 125.873    | 133415.73  | 0.9919 | P    | 2.7  |
| 5 | <input type="checkbox"/> | 250.000  | 243.276    | 255284.44  | 1.9170 | P    | 5.0  |
| 6 | <input type="checkbox"/> | 500.000  | 506.333    | 517232.80  | 3.9898 | P    | 0.0  |
| 7 | <input type="checkbox"/> | 1000.000 | 998.334    | 1054808.79 | 7.8665 | P    | 0.8  |
| 8 | <input type="checkbox"/> |          |            | 374.45     | 0.0028 | P    | 9.0  |

$$y = 0.0079 * x + 1.1955\text{E-}004$$

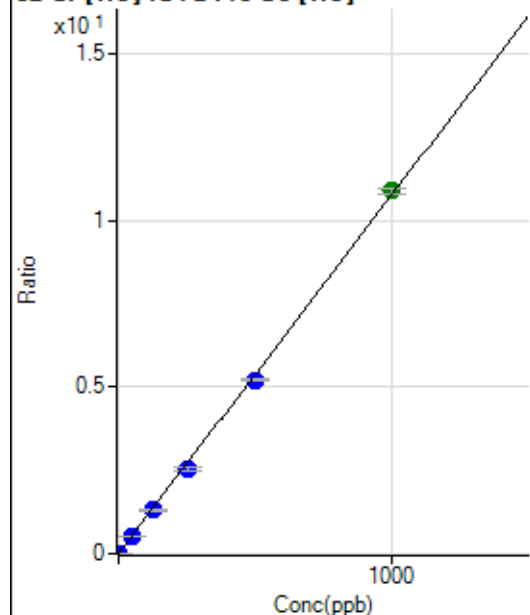
$$R = 0.9999$$

$$DL = 0.01331$$

$$BEC = 0.01517$$

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      | 1118.94    | 0.0075  | P        | 9.7 |
| 2 | <input type="checkbox"/> | 2.000    | 1.921      | 4127.31    | 0.0282  | P        | 1.2 |
| 3 | <input type="checkbox"/> | 50.000   | 49.532     | 75570.68   | 0.5397  | P        | 2.2 |
| 4 | <input type="checkbox"/> | 125.000  | 120.875    | 175715.62  | 1.3063  | P        | 2.0 |
| 5 | <input type="checkbox"/> | 250.000  | 233.952    | 335781.26  | 2.5214  | P        | 4.8 |
| 6 | <input type="checkbox"/> | 500.000  | 485.060    | 676653.93  | 5.2195  | P        | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1012.021   | 1459095.62 | 10.8818 | A        | 1.8 |
| 8 | <input type="checkbox"/> |          |            | 8626.01    | 0.0645  | P        | 2.3 |

$$y = 0.0107 * x + 0.0075$$

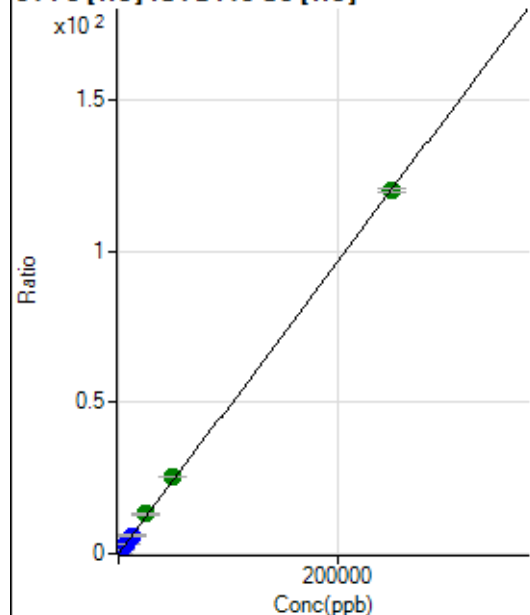
$$R = 0.9997$$

$$DL = 0.2034$$

$$BEC = 0.6998$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 357.42      | 0.0024   | P        | 11.6 |
| 2 | <input type="checkbox"/> | 50.000    | 49.879     | 3867.26     | 0.0264   | P        | 4.2  |
| 3 | <input type="checkbox"/> | 2500.000  | 2599.697   | 175449.70   | 1.2531   | P        | 1.7  |
| 4 | <input type="checkbox"/> | 6250.000  | 6472.075   | 419110.56   | 3.1160   | P        | 1.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12386.491  | 793936.68   | 5.9613   | P        | 4.6  |
| 6 | <input type="checkbox"/> | 25000.000 | 27210.446  | 1697366.40  | 13.0928  | A        | 1.2  |
| 7 | <input type="checkbox"/> | 50000.000 | 52569.437  | 3391448.60  | 25.2925  | A        | 1.0  |
| 8 | <input type="checkbox"/> | 250000.00 | 249264.19  | 16049717.60 | 119.9183 | A        | 0.9  |

$$y = 4.8108E-004 * x + 0.0024$$

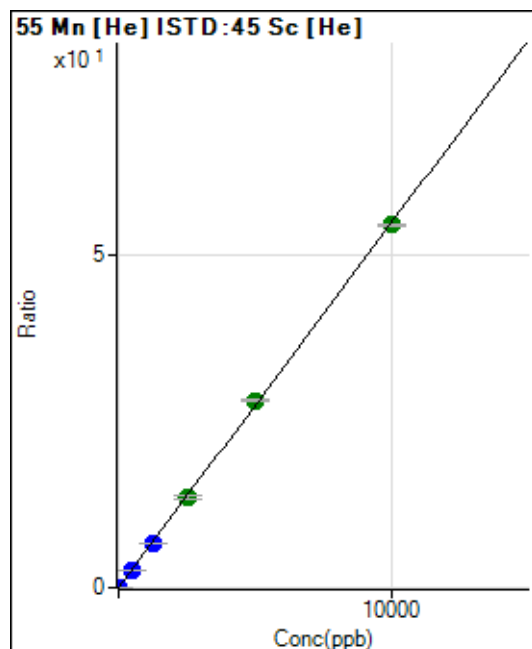
$$R = 0.9999$$

$$DL = 1.735$$

$$BEC = 4.99$$

Weight: &lt;None&gt;

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 43.33      | 0.0003  | P    | 27.4 |
| 2 | <input type="checkbox"/> | 1.000     | 0.911      | 773.36     | 0.0053  | P    | 6.3  |
| 3 | <input type="checkbox"/> | 500.000   | 496.242    | 380129.22  | 2.7148  | P    | 1.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1218.768   | 896747.82  | 6.6672  | P    | 1.8  |
| 5 | <input type="checkbox"/> | 2500.000  | 2479.645   | 1806531.14 | 13.5644 | A    | 5.0  |
| 6 | <input type="checkbox"/> | 5000.000  | 5135.452   | 3641977.27 | 28.0922 | A    | 1.4  |
| 7 | <input type="checkbox"/> | 10000.000 | 9941.455   | 7292849.34 | 54.3819 | A    | 0.5  |
| 8 | <input type="checkbox"/> |           |            | 5393.30    | 0.0403  | P    | 1.4  |

$$y = 0.0055 * x + 2.9084E-004$$

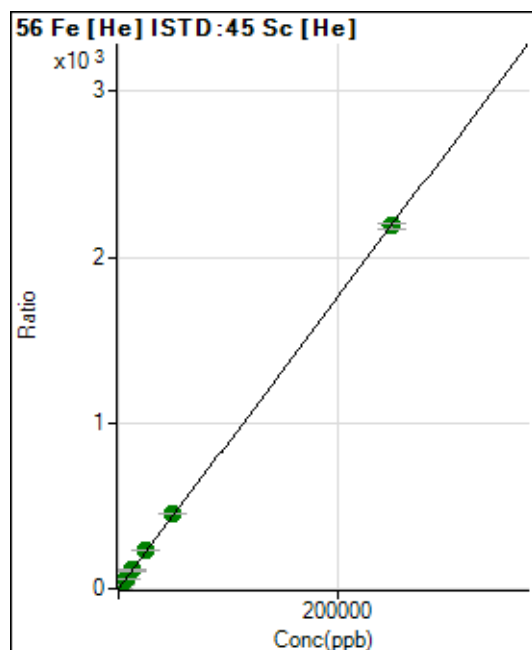
$$R = 0.9999$$

$$DL = 0.04366$$

$$BEC = 0.05317$$

Weight: <None>

Min Conc: 0



|   | R <sub>ct</sub>          | Conc.     | Calc Conc. | CPS         | Ratio    | Det. | RSD |
|---|--------------------------|-----------|------------|-------------|----------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 2748.46     | 0.0185   | P    | 1.6 |
| 2 | <input type="checkbox"/> | 50.000    | 48.086     | 64512.12    | 0.4402   | P    | 2.0 |
| 3 | <input type="checkbox"/> | 2500.000  | 2721.331   | 3344776.52  | 23.8871  | A    | 0.8 |
| 4 | <input type="checkbox"/> | 6250.000  | 6653.382   | 7851581.48  | 58.3750  | A    | 1.2 |
| 5 | <input type="checkbox"/> | 12500.000 | 12763.257  | 14914576.49 | 111.9644 | A    | 3.9 |
| 6 | <input type="checkbox"/> | 25000.000 | 26266.094  | 29867877.98 | 230.3971 | A    | 1.0 |
| 7 | <input type="checkbox"/> | 50000.000 | 51507.907  | 60582020.80 | 451.7918 | A    | 2.0 |
| 8 | <input type="checkbox"/> | 250000.00 | 249546.34  | 292932439.8 | 2188.777 | A    | 1.5 |

$$y = 0.0088 * x + 0.0185$$

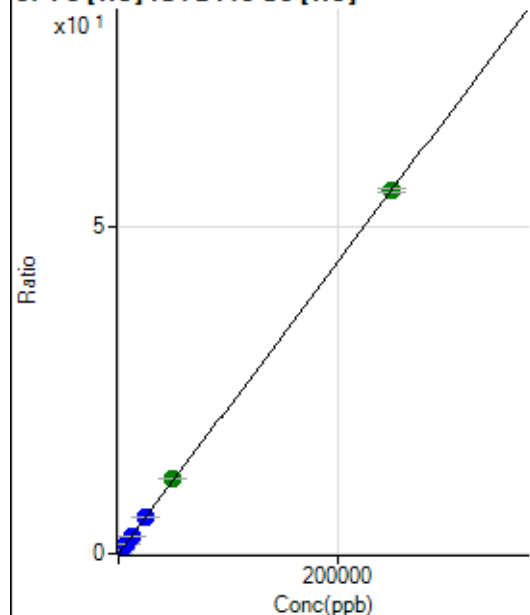
$$R = 1.0000$$

$$DL = 0.09814$$

$$BEC = 2.105$$

Weight: <None>

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|-----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 120.37     | 0.0008  | P    | 30.6 |
| 2 | <input type="checkbox"/> | 50.000    | 46.777     | 1646.42    | 0.0112  | P    | 4.7  |
| 3 | <input type="checkbox"/> | 2500.000  | 2552.326   | 79748.26   | 0.5696  | P    | 2.3  |
| 4 | <input type="checkbox"/> | 6250.000  | 6306.192   | 189130.31  | 1.4060  | P    | 1.4  |
| 5 | <input type="checkbox"/> | 12500.000 | 12080.754  | 358579.58  | 2.6928  | P    | 5.2  |
| 6 | <input type="checkbox"/> | 25000.000 | 25129.953  | 726052.24  | 5.6006  | P    | 0.6  |
| 7 | <input type="checkbox"/> | 50000.000 | 51912.531  | 1551287.06 | 11.5686 | A    | 0.8  |
| 8 | <input type="checkbox"/> | 250000.00 | 249623.53  | 7444441.37 | 55.6251 | A    | 1.1  |

$$y = 2.2283\text{E-}004 * x + 8.0953\text{E-}004$$

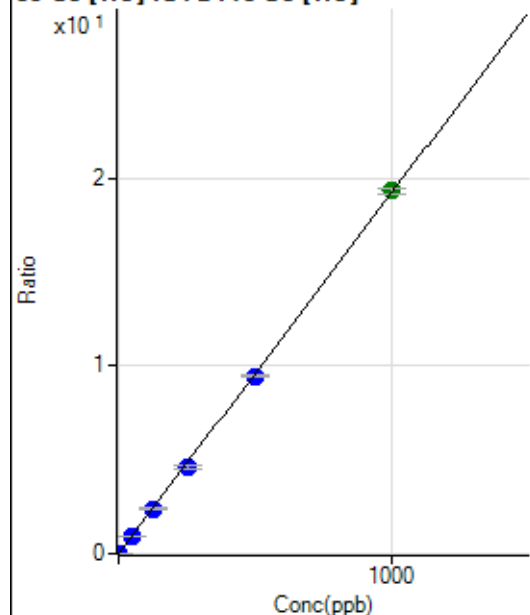
$$R = 1.0000$$

$$DL = 3.331$$

$$BEC = 3.633$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio   | Det. | RSD  |
|---|--------------------------|----------|------------|------------|---------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 51.11      | 0.0003  | P    | 20.5 |
| 2 | <input type="checkbox"/> | 1.000    | 0.957      | 2744.74    | 0.0187  | P    | 0.5  |
| 3 | <input type="checkbox"/> | 50.000   | 50.154     | 134951.06  | 0.9638  | P    | 1.6  |
| 4 | <input type="checkbox"/> | 125.000  | 125.227    | 323597.15  | 2.4059  | P    | 1.5  |
| 5 | <input type="checkbox"/> | 250.000  | 239.192    | 611853.25  | 4.5951  | P    | 5.4  |
| 6 | <input type="checkbox"/> | 500.000  | 493.158    | 1228150.57 | 9.4736  | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.087   | 2591334.82 | 19.3266 | A    | 1.9  |
| 8 | <input type="checkbox"/> |          |            | 6103.58    | 0.0456  | P    | 0.6  |

$$y = 0.0192 * x + 3.4311\text{E-}004$$

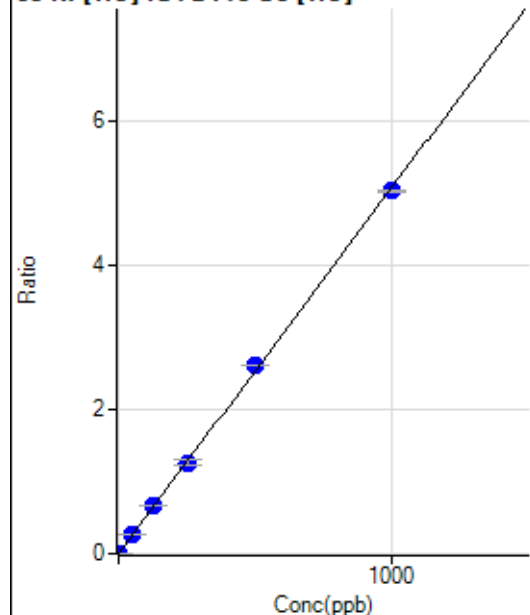
$$R = 0.9999$$

$$DL = 0.01096$$

$$BEC = 0.01786$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS       | Ratio  | Det | RSD  |
|---|--------------------------|----------|------------|-----------|--------|-----|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 46.67     | 0.0003 | P   | 19.1 |
| 2 | <input type="checkbox"/> | 1.000    | 1.108      | 870.04    | 0.0059 | P   | 4.1  |
| 3 | <input type="checkbox"/> | 50.000   | 53.701     | 38209.02  | 0.2729 | P   | 1.8  |
| 4 | <input type="checkbox"/> | 125.000  | 131.135    | 89563.16  | 0.6659 | P   | 1.9  |
| 5 | <input type="checkbox"/> | 250.000  | 249.350    | 168566.02 | 1.2659 | P   | 5.5  |
| 6 | <input type="checkbox"/> | 500.000  | 514.254    | 338421.53 | 2.6105 | P   | 0.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 992.083    | 675257.45 | 5.0359 | P   | 0.7  |
| 8 | <input type="checkbox"/> |          |            | 3362.65   | 0.0251 | P   | 3.2  |

$$y = 0.0051 * x + 3.1358E-004$$

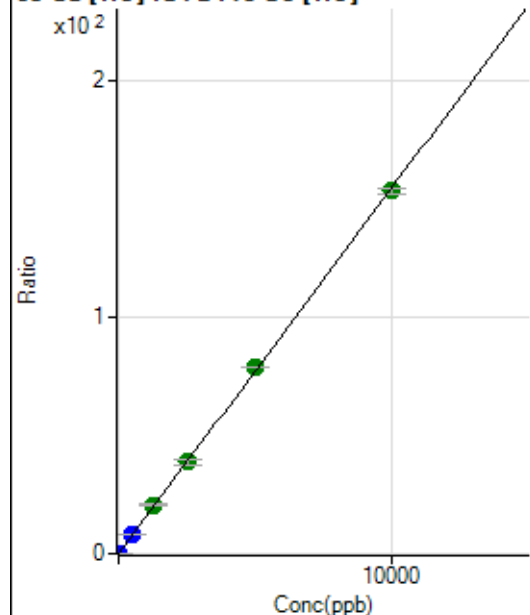
$$R = 0.9998$$

$$DL = 0.03546$$

$$BEC = 0.06178$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio    | Det | RSD  |
|---|--------------------------|-----------|------------|-------------|----------|-----|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 486.68      | 0.0033   | P   | 13.6 |
| 2 | <input type="checkbox"/> | 2.000     | 1.866      | 4703.05     | 0.0321   | P   | 2.1  |
| 3 | <input type="checkbox"/> | 500.000   | 506.527    | 1095803.45  | 7.8262   | P   | 1.5  |
| 4 | <input type="checkbox"/> | 1250.000  | 1326.137   | 2755233.88  | 20.4844  | A   | 3.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2503.925   | 5149760.38  | 38.6743  | A   | 5.4  |
| 6 | <input type="checkbox"/> | 5000.000  | 5120.236   | 10251899.99 | 79.0811  | A   | 0.3  |
| 7 | <input type="checkbox"/> | 10000.000 | 9929.057   | 20561382.75 | 153.3493 | A   | 1.4  |
| 8 | <input type="checkbox"/> |           |            | 7277.51     | 0.0544   | P   | 0.8  |

$$y = 0.0154 * x + 0.0033$$

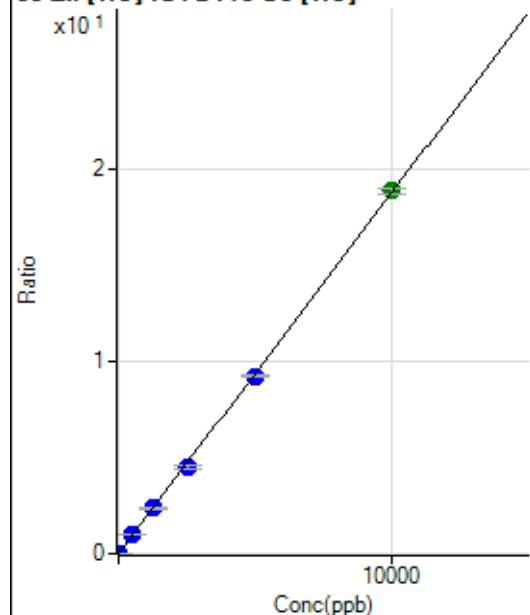
$$R = 0.9999$$

$$DL = 0.08633$$

$$BEC = 0.2117$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS        | Ratio   | Det. | RSD |
|---|--------------------------|-----------|------------|------------|---------|------|-----|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 130.00     | 0.0009  | P    | 3.1 |
| 2 | <input type="checkbox"/> | 2.000     | 2.231      | 741.13     | 0.0051  | P    | 6.8 |
| 3 | <input type="checkbox"/> | 500.000   | 514.977    | 135465.48  | 0.9675  | P    | 1.8 |
| 4 | <input type="checkbox"/> | 1250.000  | 1255.301   | 317041.67  | 2.3571  | P    | 1.4 |
| 5 | <input type="checkbox"/> | 2500.000  | 2396.977   | 599312.34  | 4.5001  | P    | 4.8 |
| 6 | <input type="checkbox"/> | 5000.000  | 4925.858   | 1198747.77 | 9.2469  | P    | 0.4 |
| 7 | <input type="checkbox"/> | 10000.000 | 10061.415  | 2532381.87 | 18.8865 | A    | 1.4 |
| 8 | <input type="checkbox"/> |           |            | 2828.08    | 0.0211  | P    | 1.5 |

$$y = 0.0019 * x + 8.7341E-004$$

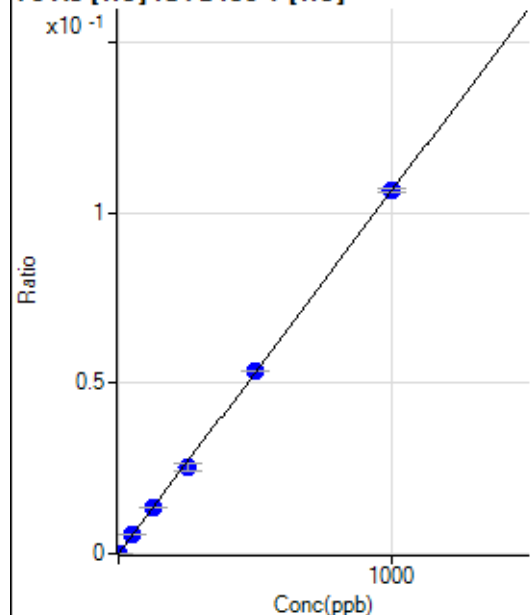
$$R = 0.9999$$

$$DL = 0.04371$$

$$BEC = 0.4653$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.67      | 0.0000 | P    | 91.9 |
| 2 | <input type="checkbox"/> | 1.000    | 1.052      | 145.35    | 0.0001 | P    | 11.7 |
| 3 | <input type="checkbox"/> | 50.000   | 52.675     | 6876.38   | 0.0056 | P    | 2.0  |
| 4 | <input type="checkbox"/> | 125.000  | 127.998    | 16015.34  | 0.0136 | P    | 1.6  |
| 5 | <input type="checkbox"/> | 250.000  | 240.627    | 30547.58  | 0.0256 | P    | 9.3  |
| 6 | <input type="checkbox"/> | 500.000  | 502.940    | 61851.86  | 0.0535 | P    | 0.6  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.365   | 126555.21 | 0.1064 | P    | 1.1  |
| 8 | <input type="checkbox"/> |          |            | 58.68     | 0.0000 | P    | 22.7 |

$$y = 1.0633E-004 * x + 1.3078E-006$$

$$R = 0.9999$$

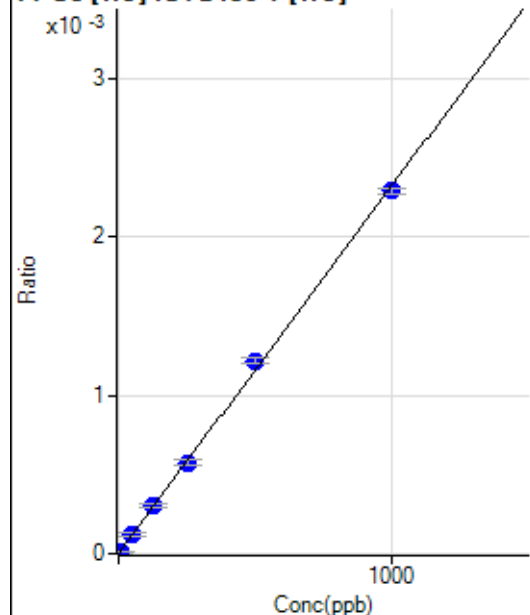
$$DL = 0.0339$$

$$BEC = 0.0123$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 1.11    | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 5.000    | 4.478      | 14.44   | 0.0000 | P    | 35.8 |
| 3 | <input type="checkbox"/> | 50.000   | 52.489     | 151.12  | 0.0001 | P    | 21.8 |
| 4 | <input type="checkbox"/> | 125.000  | 130.787    | 357.79  | 0.0003 | P    | 10.8 |
| 5 | <input type="checkbox"/> | 250.000  | 247.575    | 687.80  | 0.0006 | P    | 5.8  |
| 6 | <input type="checkbox"/> | 500.000  | 525.330    | 1410.09 | 0.0012 | P    | 3.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 987.096    | 2724.74 | 0.0023 | P    | 1.3  |
| 8 | <input type="checkbox"/> |          |            | 13.33   | 0.0000 | P    | 24.6 |

$$y = 2.3191\text{E-}006 * x + 8.7432\text{E-}007$$

$$R = 0.9995$$

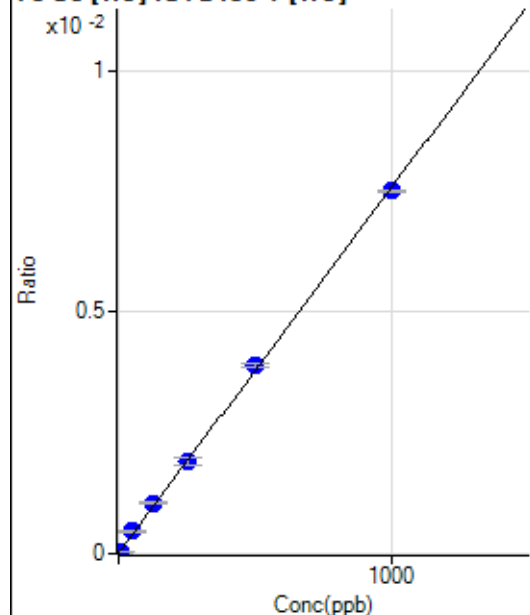
$$DL = 1.959$$

$$BEC = 0.377$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS     | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|---------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 14.33   | 0.0000 | P    | 17.4 |
| 2 | <input type="checkbox"/> | 5.000    | 4.761      | 60.68   | 0.0000 | P    | 18.3 |
| 3 | <input type="checkbox"/> | 50.000   | 59.240     | 563.74  | 0.0005 | P    | 7.2  |
| 4 | <input type="checkbox"/> | 125.000  | 137.081    | 1234.18 | 0.0010 | P    | 2.9  |
| 5 | <input type="checkbox"/> | 250.000  | 250.451    | 2277.42 | 0.0019 | P    | 8.9  |
| 6 | <input type="checkbox"/> | 500.000  | 513.939    | 4512.85 | 0.0039 | P    | 1.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 990.947    | 8939.08 | 0.0075 | P    | 0.6  |
| 8 | <input type="checkbox"/> |          |            | 69.68   | 0.0001 | P    | 27.9 |

$$y = 7.5705\text{E-}006 * x + 1.1230\text{E-}005$$

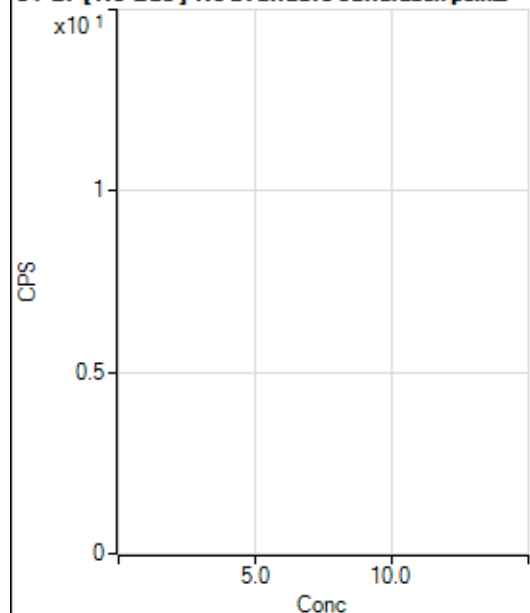
$$R = 0.9998$$

$$DL = 0.7727$$

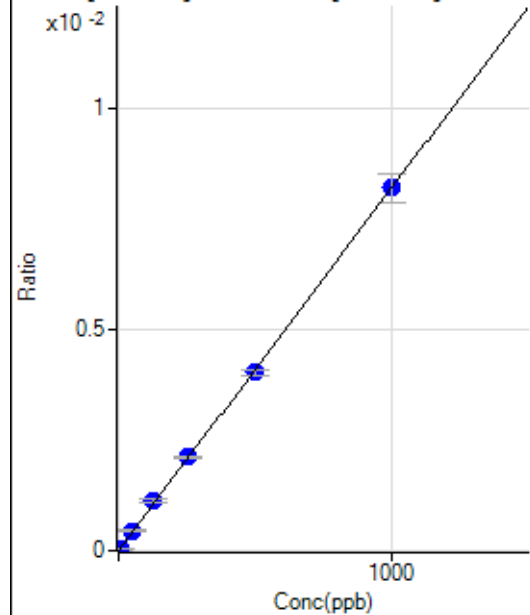
$$BEC = 1.483$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 4448.05 |       | P        | 2.8  |
| 2 | <input type="checkbox"/> |       |            | 4359.13 |       | P        | 4.5  |
| 3 | <input type="checkbox"/> |       |            | 4164.61 |       | P        | 1.7  |
| 4 | <input type="checkbox"/> |       |            | 4006.24 |       | P        | 4.2  |
| 5 | <input type="checkbox"/> |       |            | 3642.23 |       | P        | 1.2  |
| 6 | <input type="checkbox"/> |       |            | 3442.18 |       | P        | 6.4  |
| 7 | <input type="checkbox"/> |       |            | 3036.52 |       | P        | 4.3  |
| 8 | <input type="checkbox"/> |       |            | 6890.81 |       | P        | 16.4 |

**82 Se [ 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      | 17.91    | 0.0000 | P        | 133. |
| 2 | <input type="checkbox"/> | 5.000    | 4.764      | 480.38   | 0.0000 | P        | 9.6  |
| 3 | <input type="checkbox"/> | 50.000   | 55.470     | 5059.55  | 0.0005 | P        | 8.4  |
| 4 | <input type="checkbox"/> | 125.000  | 138.267    | 12061.39 | 0.0011 | P        | 7.0  |
| 5 | <input type="checkbox"/> | 250.000  | 258.057    | 23293.85 | 0.0021 | P        | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 491.094    | 44487.68 | 0.0040 | P        | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.508   | 88921.33 | 0.0082 | P        | 7.6  |
| 8 | <input type="checkbox"/> |          |            | 461.63   | 0.0000 | P        | 11.5 |

$$y = 8.2046E-006 * x + 1.4905E-006$$

$$R = 0.9998$$

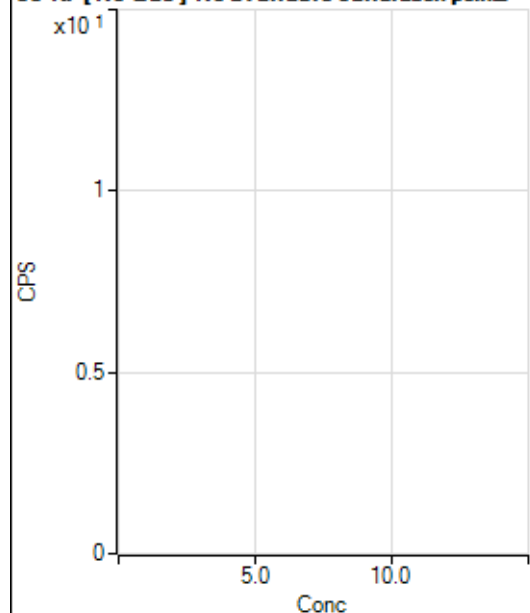
$$DL = 0.73$$

$$BEC = 0.1817$$

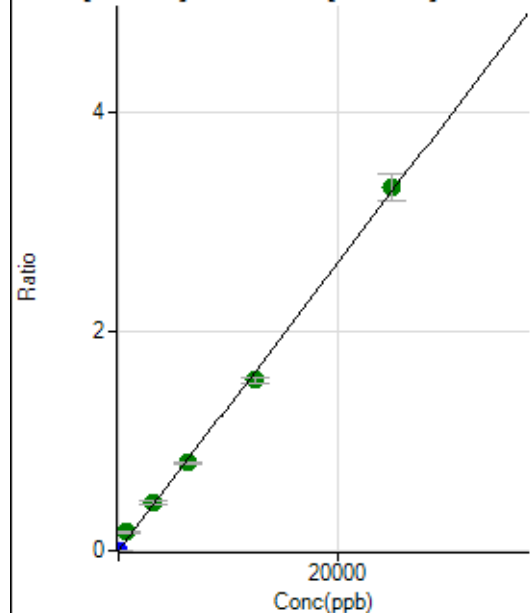
Weight: &lt;None&gt;

Min Conc: 0



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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 230.39 |       | P        | 11.8 |
| 2 | <input type="checkbox"/> |       |            | 244.97 |       | P        | 5.4  |
| 3 | <input type="checkbox"/> |       |            | 244.97 |       | P        | 1.4  |
| 4 | <input type="checkbox"/> |       |            | 238.30 |       | P        | 1.1  |
| 5 | <input type="checkbox"/> |       |            | 247.47 |       | P        | 8.9  |
| 6 | <input type="checkbox"/> |       |            | 231.22 |       | P        | 2.5  |
| 7 | <input type="checkbox"/> |       |            | 232.47 |       | P        | 4.6  |
| 8 | <input type="checkbox"/> |       |            | 236.22 |       | P        | 7.4  |

**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      | 450.02      | 0.0000 | P        | 7.5  |
| 2 | <input type="checkbox"/> | 1.000     | 0.864      | 1775.16     | 0.0001 | P        | 1.3  |
| 3 | <input type="checkbox"/> | 625.000   | 1300.834   | 1883127.97  | 0.1699 | A        | 7.6  |
| 4 | <input type="checkbox"/> | 3125.000  | 3329.086   | 4613793.07  | 0.4349 | A        | 8.8  |
| 5 | <input type="checkbox"/> | 6250.000  | 6125.626   | 8796843.42  | 0.8001 | A        | 2.5  |
| 6 | <input type="checkbox"/> | 12500.000 | 11885.792  | 17132254.72 | 1.5525 | A        | 3.3  |
| 7 | <input type="checkbox"/> | 25000.000 | 25295.791  | 35787979.96 | 3.3039 | A        | 7.3  |
| 8 | <input type="checkbox"/> |           |            | 10237.76    | 0.0010 | P        | 10.3 |

$$y = 1.3061E-004 * x + 3.7081E-005$$

$$R = 0.9991$$

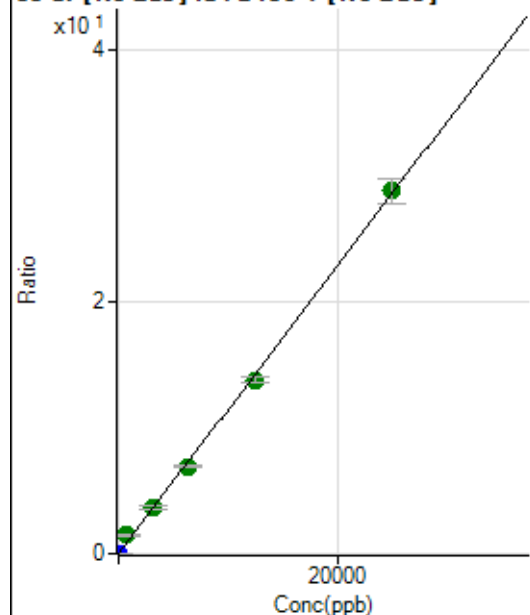
$$DL = 0.06414$$

$$BEC = 0.2839$$

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      | 788.93      | 0.0001  | P        | 21.7 |
| 2 | <input type="checkbox"/> | 1.000     | 0.904      | 12992.48    | 0.0011  | P        | 3.6  |
| 3 | <input type="checkbox"/> | 625.000   | 1277.881   | 16171663.03 | 1.4592  | A        | 7.5  |
| 4 | <input type="checkbox"/> | 3125.000  | 3234.830   | 39199335.95 | 3.6936  | A        | 8.6  |
| 5 | <input type="checkbox"/> | 6250.000  | 6072.428   | 76217399.62 | 6.9336  | A        | 3.6  |
| 6 | <input type="checkbox"/> | 12500.000 | 12049.721  | 151835599.2 | 13.7585 | A        | 3.2  |
| 7 | <input type="checkbox"/> | 25000.000 | 25239.482  | 312222651.4 | 28.8187 | A        | 6.9  |
| 8 | <input type="checkbox"/> |           |            | 75894.10    | 0.0072  | P        | 16.8 |

$$y = 0.0011 * x + 6.4918E-005$$

$$R = 0.9993$$

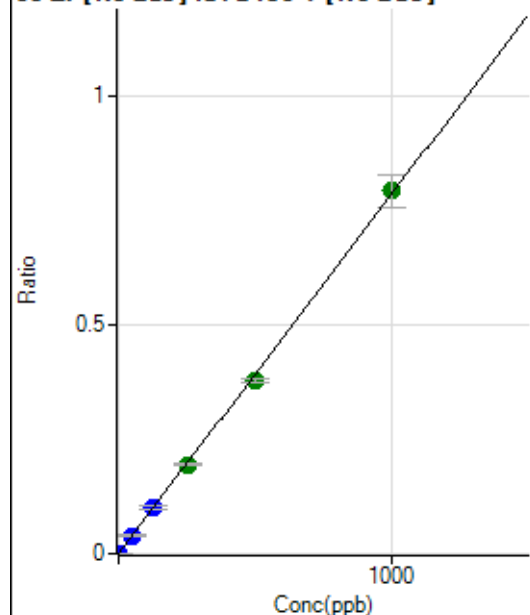
$$DL = 0.03699$$

$$BEC = 0.05686$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS        | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 452.80     | 0.0000 | P        | 3.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.802      | 7919.14    | 0.0007 | P        | 9.3 |
| 3 | <input type="checkbox"/> | 50.000   | 49.731     | 434056.38  | 0.0392 | P        | 6.9 |
| 4 | <input type="checkbox"/> | 125.000  | 126.812    | 1059009.83 | 0.0998 | P        | 8.4 |
| 5 | <input type="checkbox"/> | 250.000  | 247.429    | 2140380.41 | 0.1947 | A        | 2.4 |
| 6 | <input type="checkbox"/> | 500.000  | 481.359    | 4180522.06 | 0.3787 | A        | 2.9 |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.750   | 8598622.33 | 0.7943 | A        | 8.8 |
| 8 | <input type="checkbox"/> |          |            | 5023.34    | 0.0005 | P        | 8.1 |

$$y = 7.8663E-004 * x + 3.7318E-005$$

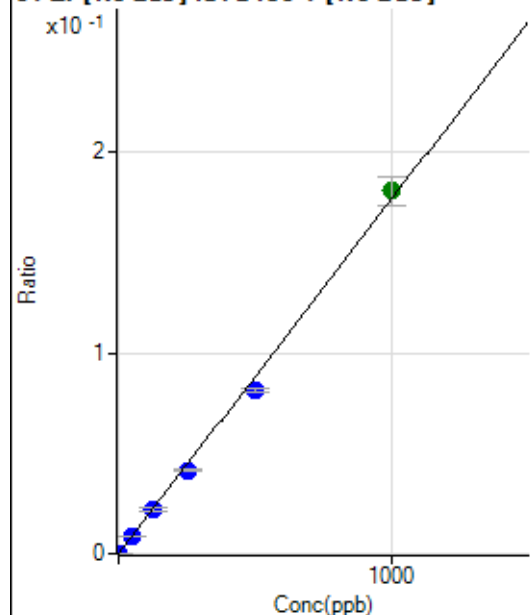
$$R = 0.9997$$

$$DL = 0.004753$$

$$BEC = 0.04744$$

Weight: &lt;None&gt;

Min Conc: 0

**91 Zr [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      | 97.22      | 0.0000 | P        | 57.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.816      | 1802.94    | 0.0002 | P        | 7.4  |
| 3 | <input type="checkbox"/> | 50.000   | 49.482     | 96953.49   | 0.0088 | P        | 8.0  |
| 4 | <input type="checkbox"/> | 125.000  | 125.772    | 236011.86  | 0.0222 | P        | 7.6  |
| 5 | <input type="checkbox"/> | 250.000  | 234.074    | 454871.33  | 0.0414 | P        | 1.9  |
| 6 | <input type="checkbox"/> | 500.000  | 460.982    | 899111.55  | 0.0815 | P        | 2.5  |
| 7 | <input type="checkbox"/> | 1000.000 | 1023.420   | 1958471.09 | 0.1808 | A        | 7.8  |
| 8 | <input type="checkbox"/> |          |            | 1166.76    | 0.0001 | P        | 3.3  |

$$y = 1.7670\text{E-}004 * x + 8.0205\text{E-}006$$

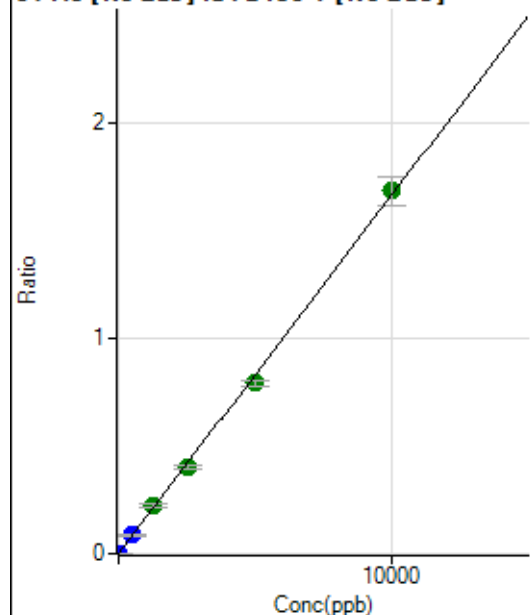
$$R = 0.9987$$

$$DL = 0.07771$$

$$BEC = 0.04539$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | Rj<br>ct                 | Conc.     | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 97.23       | 0.0000 | P        | 39.3 |
| 2 | <input type="checkbox"/> | 5.000     | 5.135      | 10198.48    | 0.0009 | P        | 3.1  |
| 3 | <input type="checkbox"/> | 500.000   | 514.489    | 947503.25   | 0.0855 | P        | 7.6  |
| 4 | <input type="checkbox"/> | 1250.000  | 1338.814   | 2361455.72  | 0.2225 | A        | 8.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2421.745   | 4424382.08  | 0.4025 | A        | 3.2  |
| 6 | <input type="checkbox"/> | 5000.000  | 4765.724   | 8739875.11  | 0.7920 | A        | 3.5  |
| 7 | <input type="checkbox"/> | 10000.000 | 10124.876  | 18219974.71 | 1.6826 | A        | 8.0  |
| 8 | <input type="checkbox"/> |           |            | 7583.45     | 0.0007 | P        | 12.0 |

$$y = 1.6618\text{E-}004 * x + 7.9901\text{E-}006$$

$$R = 0.9995$$

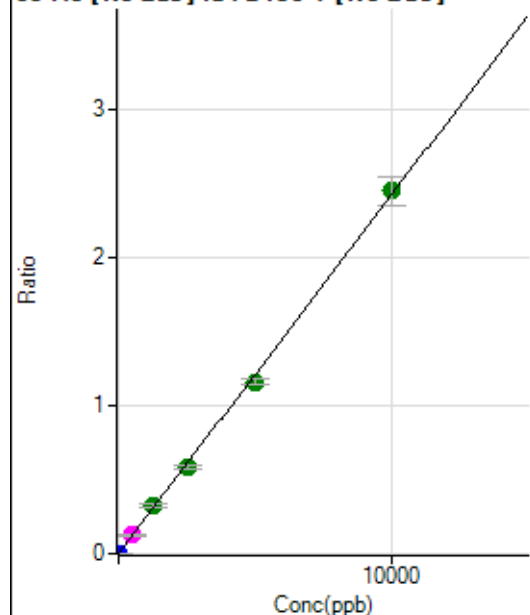
$$DL = 0.05667$$

$$BEC = 0.04808$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 19.44       | 0.0000 | P    | 64.5 |
| 2 | <input type="checkbox"/> | 5.000     | 4.346      | 12492.05    | 0.0011 | P    | 2.0  |
| 3 | <input type="checkbox"/> | 500.000   | 521.958    | 1402829.65  | 0.1265 | M    | 5.9  |
| 4 | <input type="checkbox"/> | 1250.000  | 1331.530   | 3424512.99  | 0.3227 | A    | 8.2  |
| 5 | <input type="checkbox"/> | 2500.000  | 2417.113   | 6439236.69  | 0.5857 | A    | 3.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 4793.704   | 12820952.98 | 1.1617 | A    | 3.0  |
| 7 | <input type="checkbox"/> | 10000.000 | 10112.581  | 26540351.46 | 2.4506 | A    | 7.8  |
| 8 | <input type="checkbox"/> |           |            | 9697.12     | 0.0009 | P    | 7.1  |

$$y = 2.4233\text{E-}004 * x + 1.5982\text{E-}006$$

$$R = 0.9996$$

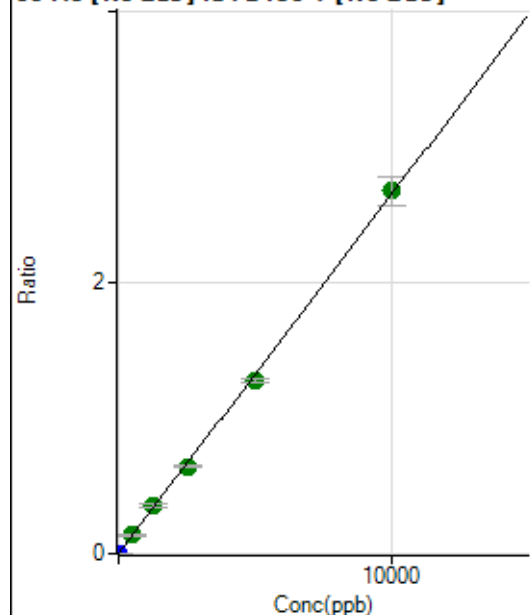
$$DL = 0.01275$$

$$BEC = 0.006595$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 77.78       | 0.0000 | P    | 52.6 |
| 2 | <input type="checkbox"/> | 5.000     | 4.424      | 13951.80    | 0.0012 | P    | 1.5  |
| 3 | <input type="checkbox"/> | 500.000   | 526.939    | 1546705.06  | 0.1396 | A    | 7.5  |
| 4 | <input type="checkbox"/> | 1250.000  | 1331.101   | 3741091.10  | 0.3526 | A    | 8.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2424.997   | 7061547.99  | 0.6423 | A    | 2.6  |
| 6 | <input type="checkbox"/> | 5000.000  | 4813.106   | 14069251.88 | 1.2748 | A    | 2.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 10100.714  | 28974517.66 | 2.6753 | A    | 7.7  |
| 8 | <input type="checkbox"/> |           |            | 11468.58    | 0.0011 | P    | 8.8  |

$$y = 2.6486\text{E-}004 * x + 6.4040\text{E-}006$$

$$R = 0.9996$$

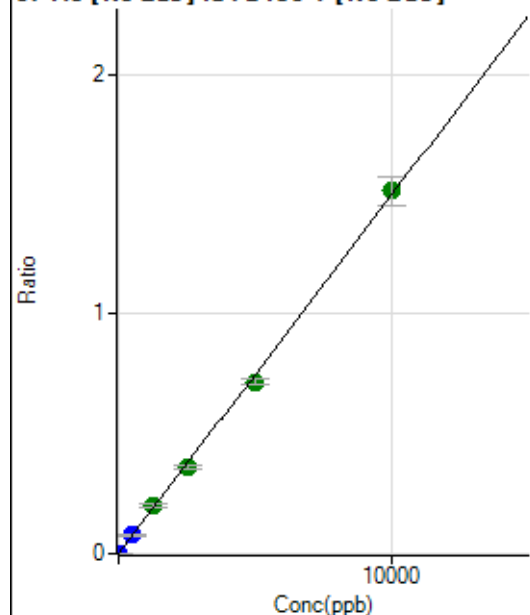
$$DL = 0.03812$$

$$BEC = 0.02418$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 13.89       | 0.0000 | P    | 173. |
| 2 | <input type="checkbox"/> | 5.000     | 4.289      | 7618.97     | 0.0006 | P    | 2.1  |
| 3 | <input type="checkbox"/> | 500.000   | 515.462    | 855123.19   | 0.0772 | P    | 8.2  |
| 4 | <input type="checkbox"/> | 1250.000  | 1323.875   | 2103208.38  | 0.1983 | A    | 9.0  |
| 5 | <input type="checkbox"/> | 2500.000  | 2413.645   | 3973036.85  | 0.3614 | A    | 3.9  |
| 6 | <input type="checkbox"/> | 5000.000  | 4788.550   | 7914238.37  | 0.7171 | A    | 2.9  |
| 7 | <input type="checkbox"/> | 10000.000 | 10117.307  | 16408439.60 | 1.5151 | A    | 7.7  |
| 8 | <input type="checkbox"/> |           |            | 6179.89     | 0.0006 | P    | 7.9  |

$$y = 1.4975\text{E-}004 * x + 1.1623\text{E-}006$$

$$R = 0.9996$$

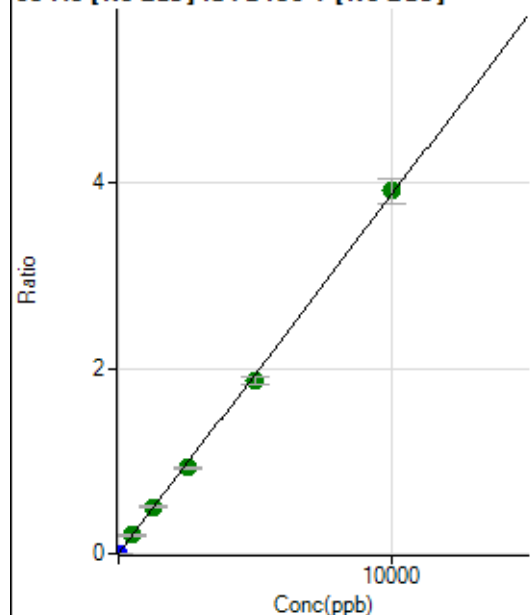
$$DL = 0.04033$$

$$BEC = 0.007762$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.     | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|-----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000     | 0.000      | 41.67       | 0.0000 | P    | 52.7 |
| 2 | <input type="checkbox"/> | 5.000     | 4.403      | 20254.15    | 0.0017 | P    | 3.8  |
| 3 | <input type="checkbox"/> | 500.000   | 524.856    | 2254053.00  | 0.2035 | A    | 8.4  |
| 4 | <input type="checkbox"/> | 1250.000  | 1309.056   | 5387929.72  | 0.5075 | A    | 7.6  |
| 5 | <input type="checkbox"/> | 2500.000  | 2399.565   | 10227669.85 | 0.9304 | A    | 3.1  |
| 6 | <input type="checkbox"/> | 5000.000  | 4815.017   | 20600312.96 | 1.8669 | A    | 3.8  |
| 7 | <input type="checkbox"/> | 10000.000 | 10108.976  | 42464659.98 | 3.9194 | A    | 7.0  |
| 8 | <input type="checkbox"/> |           |            | 15731.31    | 0.0015 | P    | 16.9 |

$$y = 3.8772\text{E-}004 * x + 3.4356\text{E-}006$$

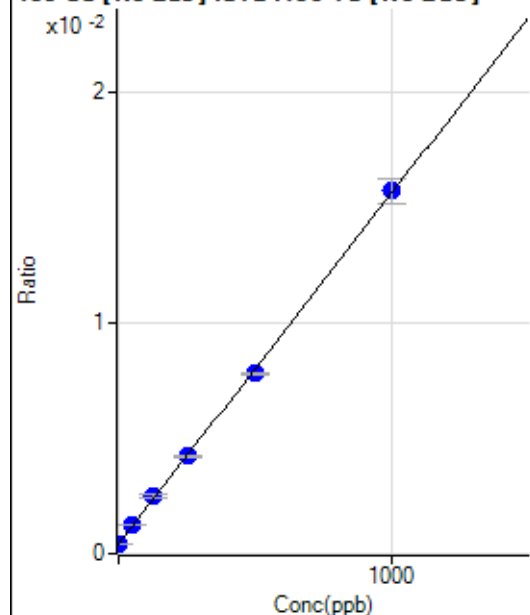
$$R = 0.9996$$

$$DL = 0.01401$$

$$BEC = 0.008861$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS       | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|-----------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 4056.27   | 0.0004 | P    | 5.6 |
| 2 | <input type="checkbox"/> | 1.000    | -0.389     | 4006.24   | 0.0004 | P    | 8.5 |
| 3 | <input type="checkbox"/> | 50.000   | 51.945     | 10787.84  | 0.0012 | P    | 2.3 |
| 4 | <input type="checkbox"/> | 125.000  | 137.207    | 21086.11  | 0.0025 | P    | 7.8 |
| 5 | <input type="checkbox"/> | 250.000  | 249.627    | 36774.93  | 0.0042 | P    | 1.9 |
| 6 | <input type="checkbox"/> | 500.000  | 484.423    | 68914.30  | 0.0078 | P    | 1.8 |
| 7 | <input type="checkbox"/> | 1000.000 | 1006.260   | 136160.71 | 0.0157 | P    | 6.9 |
| 8 | <input type="checkbox"/> |          |            | 3356.06   | 0.0004 | P    | 4.0 |

$$y = 1.5172\text{E-}005 * x + 4.3926\text{E-}004$$

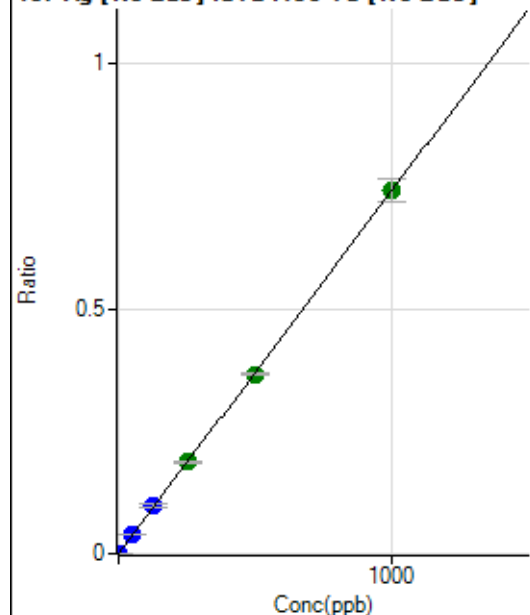
$$R = 0.9997$$

$$DL = 4.821$$

$$BEC = 28.95$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 77.78      | 0.0000 | P    | 41.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.956      | 6621.19    | 0.0007 | P    | 3.0  |
| 3 | <input type="checkbox"/> | 50.000   | 52.715     | 342870.51  | 0.0391 | P    | 5.0  |
| 4 | <input type="checkbox"/> | 125.000  | 132.985    | 824751.23  | 0.0985 | P    | 6.2  |
| 5 | <input type="checkbox"/> | 250.000  | 253.191    | 1632364.13 | 0.1876 | A    | 2.2  |
| 6 | <input type="checkbox"/> | 500.000  | 495.488    | 3248248.51 | 0.3671 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1000.325   | 6426623.15 | 0.7412 | A    | 6.4  |
| 8 | <input type="checkbox"/> |          |            | 1161.19    | 0.0001 | P    | 17.4 |

$$y = 7.4091\text{E-}004 * x + 8.3755\text{E-}006$$

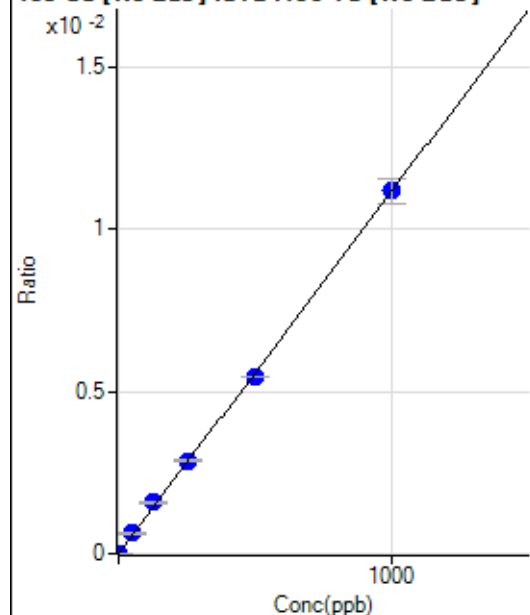
$$R = 0.9999$$

$$DL = 0.01392$$

$$BEC = 0.0113$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS      | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|----------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 18.06    | 0.0000 | P    | 13.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.981      | 119.45   | 0.0000 | P    | 15.0 |
| 3 | <input type="checkbox"/> | 50.000   | 55.750     | 5478.93  | 0.0006 | P    | 7.7  |
| 4 | <input type="checkbox"/> | 125.000  | 140.731    | 13178.68 | 0.0016 | P    | 5.6  |
| 5 | <input type="checkbox"/> | 250.000  | 256.009    | 24900.42 | 0.0029 | P    | 2.8  |
| 6 | <input type="checkbox"/> | 500.000  | 489.309    | 48387.62 | 0.0055 | P    | 0.2  |
| 7 | <input type="checkbox"/> | 1000.000 | 1001.589   | 97036.29 | 0.0112 | P    | 6.6  |
| 8 | <input type="checkbox"/> |          |            | 95.84    | 0.0000 | P    | 7.8  |

$$y = 1.1172\text{E-}005 * x + 1.9565\text{E-}006$$

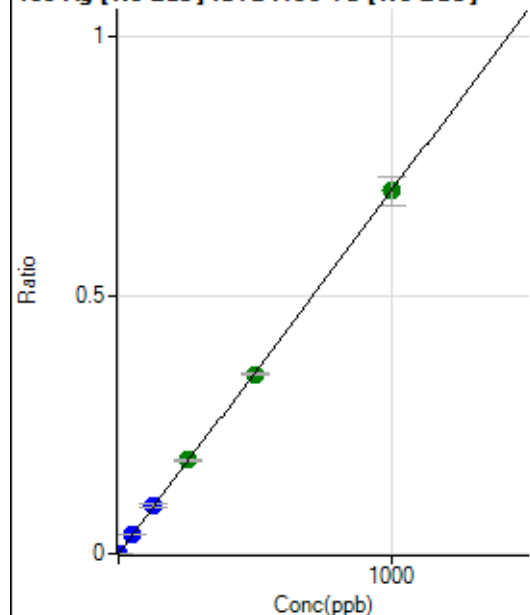
$$R = 0.9998$$

$$DL = 0.07316$$

$$BEC = 0.1751$$

Weight: &lt;None&gt;

Min Conc: 0

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

|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 38.89      | 0.0000 | P    | 33.3 |
| 2 | <input type="checkbox"/> | 1.000    | 0.934      | 6104.30    | 0.0007 | P    | 2.9  |
| 3 | <input type="checkbox"/> | 50.000   | 52.232     | 321974.90  | 0.0367 | P    | 6.6  |
| 4 | <input type="checkbox"/> | 125.000  | 133.677    | 785630.96  | 0.0939 | P    | 8.1  |
| 5 | <input type="checkbox"/> | 250.000  | 258.033    | 1577344.48 | 0.1813 | A    | 2.7  |
| 6 | <input type="checkbox"/> | 500.000  | 494.477    | 3074513.85 | 0.3475 | A    | 0.8  |
| 7 | <input type="checkbox"/> | 1000.000 | 999.557    | 6086561.16 | 0.7024 | A    | 8.1  |
| 8 | <input type="checkbox"/> |          |            | 1075.07    | 0.0001 | P    | 10.0 |

$$y = 7.0267\text{E-}004 * x + 4.2142\text{E-}006$$

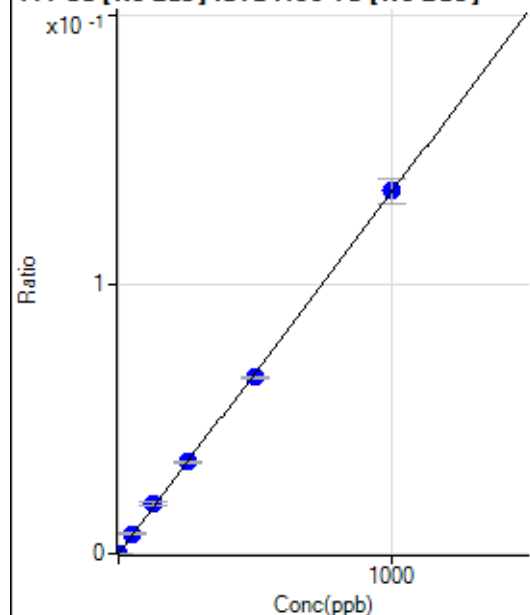
$$R = 0.9999$$

$$DL = 0.005998$$

$$BEC = 0.005997$$

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      | 399.93     | 0.0000 | P        | 4.8 |
| 2 | <input type="checkbox"/> | 1.000    | 0.910      | 1529.59    | 0.0002 | P        | 5.0 |
| 3 | <input type="checkbox"/> | 50.000   | 54.070     | 64106.60   | 0.0073 | P        | 5.5 |
| 4 | <input type="checkbox"/> | 125.000  | 138.137    | 155500.79  | 0.0186 | P        | 8.5 |
| 5 | <input type="checkbox"/> | 250.000  | 253.951    | 297086.91  | 0.0341 | P        | 2.6 |
| 6 | <input type="checkbox"/> | 500.000  | 487.127    | 579234.42  | 0.0655 | P        | 1.1 |
| 7 | <input type="checkbox"/> | 1000.000 | 1003.603   | 1168861.51 | 0.1348 | P        | 7.0 |
| 8 | <input type="checkbox"/> |          |            | 925.49     | 0.0001 | P        | 5.3 |

$$y = 1.3430\text{E-}004 * x + 4.3302\text{E-}005$$

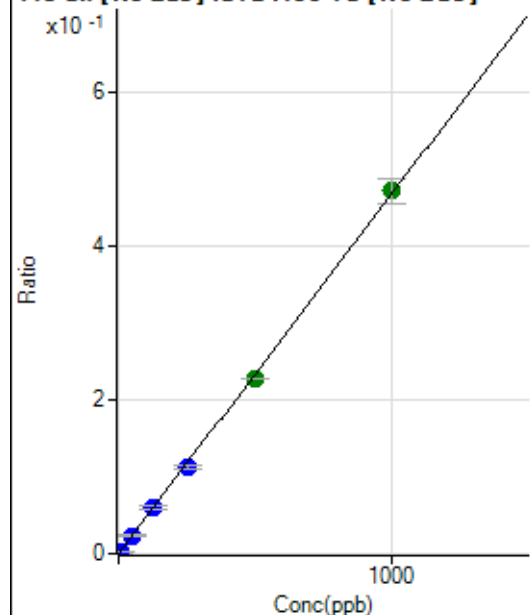
$$R = 0.9998$$

$$DL = 0.04613$$

$$BEC = 0.3224$$

Weight: &lt;None&gt;

Min Conc: 0

**118 Sn [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      | 1150.08    | 0.0001 | P        | 5.9 |
| 2 | <input type="checkbox"/> | 5.000    | 4.367      | 19998.44   | 0.0022 | P        | 1.4 |
| 3 | <input type="checkbox"/> | 50.000   | 50.468     | 207905.42  | 0.0237 | P        | 6.2 |
| 4 | <input type="checkbox"/> | 125.000  | 128.767    | 503778.28  | 0.0603 | P        | 9.7 |
| 5 | <input type="checkbox"/> | 250.000  | 241.551    | 982390.00  | 0.1130 | P        | 4.1 |
| 6 | <input type="checkbox"/> | 500.000  | 485.149    | 2006356.34 | 0.2267 | A        | 0.2 |
| 7 | <input type="checkbox"/> | 1000.000 | 1009.047   | 4087329.43 | 0.4715 | A        | 6.9 |
| 8 | <input type="checkbox"/> |          |            | 3325.72    | 0.0004 | P        | 1.0 |

$$y = 4.6711\text{E-}004 * x + 1.2451\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.0468$$

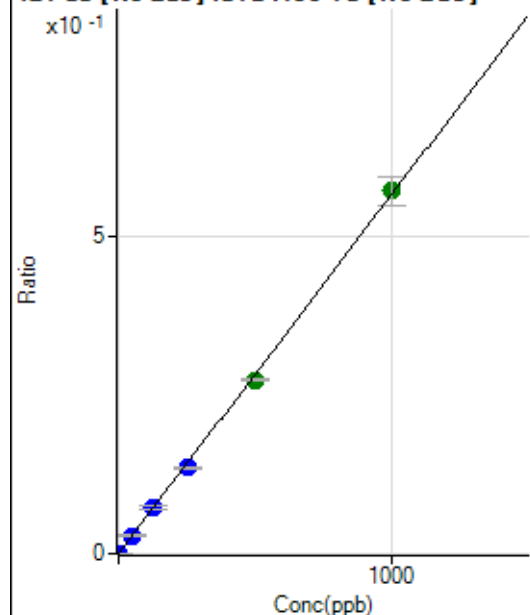
$$BEC = 0.2666$$

Weight: &lt;None&gt;

Min Conc: 0



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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 8.33       | 0.0000 | P    | 98.7 |
| 2 | <input type="checkbox"/> | 2.000    | 1.772      | 9289.49    | 0.0010 | P    | 4.4  |
| 3 | <input type="checkbox"/> | 50.000   | 49.584     | 246587.72  | 0.0281 | P    | 6.8  |
| 4 | <input type="checkbox"/> | 125.000  | 127.626    | 605171.75  | 0.0724 | P    | 8.2  |
| 5 | <input type="checkbox"/> | 250.000  | 239.823    | 1182853.35 | 0.1360 | P    | 2.9  |
| 6 | <input type="checkbox"/> | 500.000  | 483.180    | 2423906.59 | 0.2740 | A    | 1.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1010.647   | 4965539.91 | 0.5730 | A    | 8.1  |
| 8 | <input type="checkbox"/> |          |            | 3156.07    | 0.0004 | P    | 20.9 |

$$y = 5.6697\text{E-}004 * x + 8.9398\text{E-}007$$

$$R = 0.9997$$

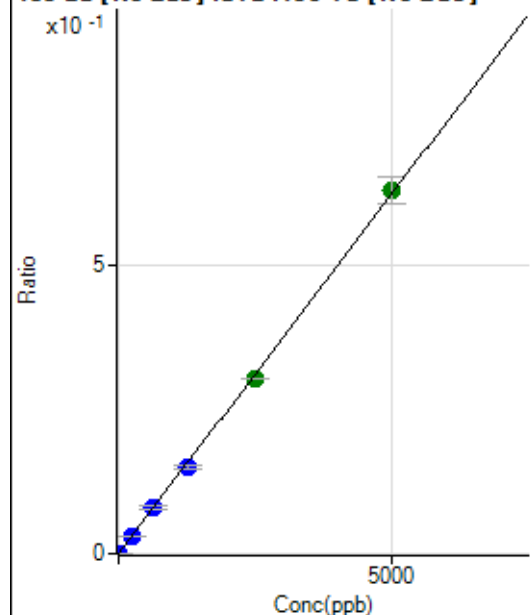
$$DL = 0.004667$$

$$BEC = 0.001577$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS        | Ratio  | Det. | RSD |
|---|--------------------------|----------|------------|------------|--------|------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 44.45      | 0.0000 | P    | 8.7 |
| 2 | <input type="checkbox"/> | 10.000   | 8.678      | 10001.29   | 0.0011 | P    | 3.8 |
| 3 | <input type="checkbox"/> | 250.000  | 246.750    | 269003.97  | 0.0306 | P    | 4.8 |
| 4 | <input type="checkbox"/> | 625.000  | 638.835    | 663448.28  | 0.0793 | P    | 8.4 |
| 5 | <input type="checkbox"/> | 1250.000 | 1205.523   | 1302285.81 | 0.1497 | P    | 3.2 |
| 6 | <input type="checkbox"/> | 2500.000 | 2423.922   | 2663568.10 | 0.3010 | A    | 0.1 |
| 7 | <input type="checkbox"/> | 5000.000 | 5047.594   | 5433437.58 | 0.6268 | A    | 7.4 |
| 8 | <input type="checkbox"/> |          |            | 3792.41    | 0.0005 | P    | 4.0 |

$$y = 1.2418\text{E-}004 * x + 4.8070\text{E-}006$$

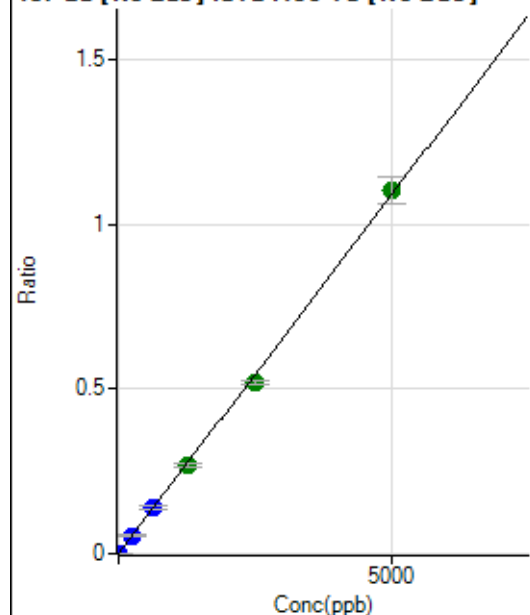
$$R = 0.9998$$

$$DL = 0.01013$$

$$BEC = 0.03871$$

Weight: &lt;None&gt;

Min Conc: 0

**137 Ba [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      | 58.33      | 0.0000 | P    | 15.6 |
| 2 | <input type="checkbox"/> | 10.000   | 9.221      | 18641.14   | 0.0020 | P    | 6.2  |
| 3 | <input type="checkbox"/> | 250.000  | 249.862    | 478092.41  | 0.0545 | P    | 5.4  |
| 4 | <input type="checkbox"/> | 625.000  | 645.538    | 1177185.99 | 0.1407 | P    | 7.9  |
| 5 | <input type="checkbox"/> | 1250.000 | 1235.843   | 2343625.90 | 0.2694 | A    | 3.5  |
| 6 | <input type="checkbox"/> | 2500.000 | 2391.120   | 4612181.27 | 0.5213 | A    | 2.0  |
| 7 | <input type="checkbox"/> | 5000.000 | 5055.421   | 9553340.06 | 1.1022 | A    | 7.5  |
| 8 | <input type="checkbox"/> |          |            | 6891.35    | 0.0008 | P    | 6.7  |

$$y = 2.1802\text{E-}004 * x + 6.3265\text{E-}006$$

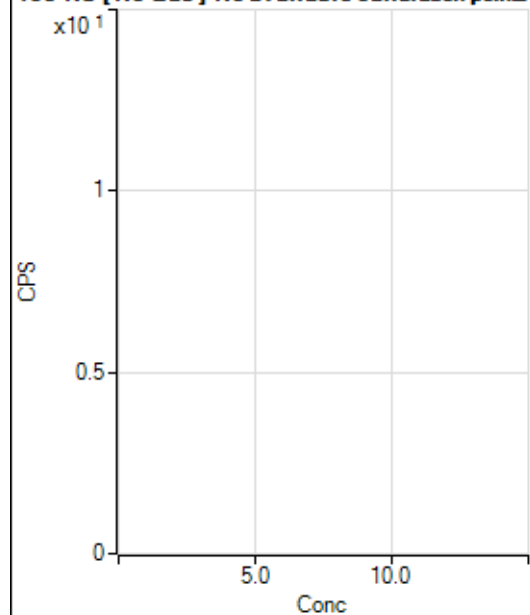
$$R = 0.9996$$

$$DL = 0.01361$$

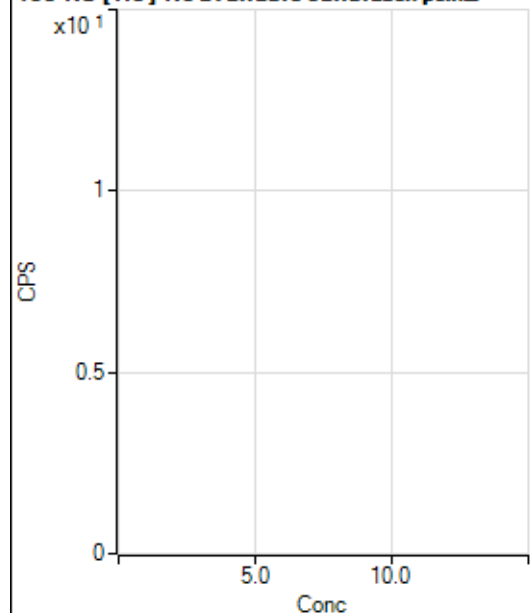
$$BEC = 0.02902$$

Weight: &lt;None&gt;

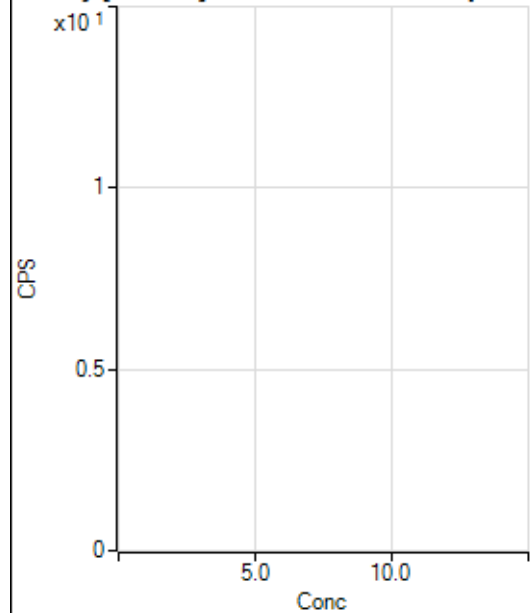
Min Conc: 0

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

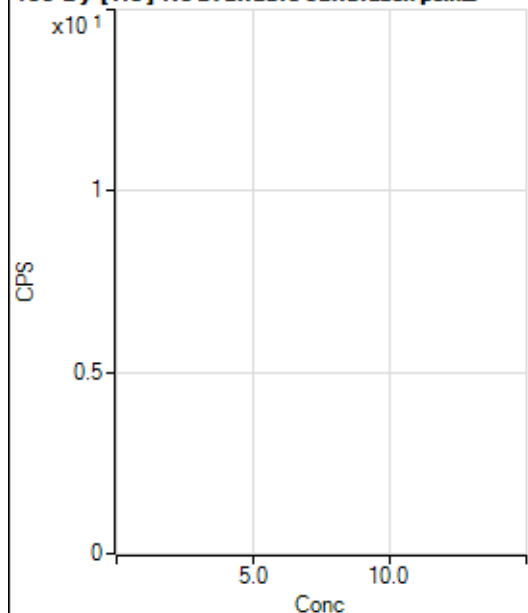
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS    | Ratio | Det. | RSD  |
|---|--------------------------|-------|------------|--------|-------|------|------|
| 1 | <input type="checkbox"/> |       |            | 8.89   |       | P    | 114. |
| 2 | <input type="checkbox"/> |       |            | 15.55  |       | P    | 24.8 |
| 3 | <input type="checkbox"/> |       |            | 24.44  |       | P    | 31.5 |
| 4 | <input type="checkbox"/> |       |            | 71.11  |       | P    | 46.3 |
| 5 | <input type="checkbox"/> |       |            | 102.23 |       | P    | 7.5  |
| 6 | <input type="checkbox"/> |       |            | 177.78 |       | P    | 13.2 |
| 7 | <input type="checkbox"/> |       |            | 320.01 |       | P    | 9.5  |
| 8 | <input type="checkbox"/> |       |            | 200.01 |       | P    | NaN  |

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

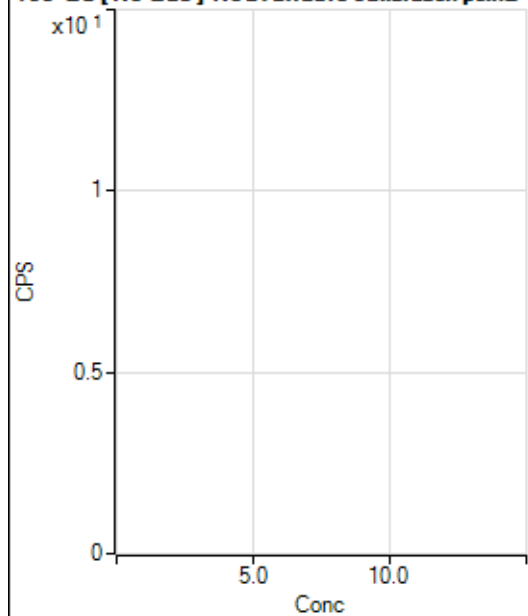
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS   | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|-------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22  |       | P        | 173. |
| 2 | <input type="checkbox"/> |       |            | 3.33  |       | P        | 0.0  |
| 3 | <input type="checkbox"/> |       |            | 4.44  |       | P        | 43.4 |
| 4 | <input type="checkbox"/> |       |            | 8.89  |       | P        | 21.6 |
| 5 | <input type="checkbox"/> |       |            | 10.00 |       | P        | 33.3 |
| 6 | <input type="checkbox"/> |       |            | 12.22 |       | P        | 15.7 |
| 7 | <input type="checkbox"/> |       |            | 48.89 |       | P        | 19.7 |
| 8 | <input type="checkbox"/> |       |            | 53.33 |       | P        | 33.1 |

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

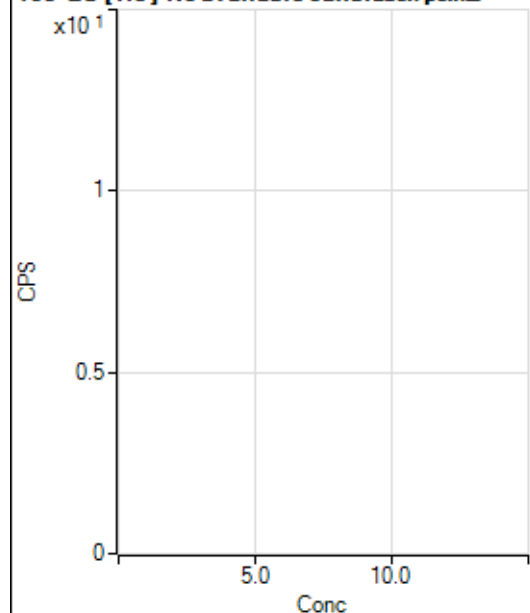
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 13.89   |       | P        | 34.7 |
| 2 | <input type="checkbox"/> |       |            | 5.56    |       | P        | 173. |
| 3 | <input type="checkbox"/> |       |            | 19.45   |       | P        | 24.7 |
| 4 | <input type="checkbox"/> |       |            | 86.12   |       | P        | 24.4 |
| 5 | <input type="checkbox"/> |       |            | 111.11  |       | P        | 11.5 |
| 6 | <input type="checkbox"/> |       |            | 175.01  |       | P        | 36.0 |
| 7 | <input type="checkbox"/> |       |            | 363.90  |       | P        | 25.7 |
| 8 | <input type="checkbox"/> |       |            | 1055.63 |       | P        | 4.8  |

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

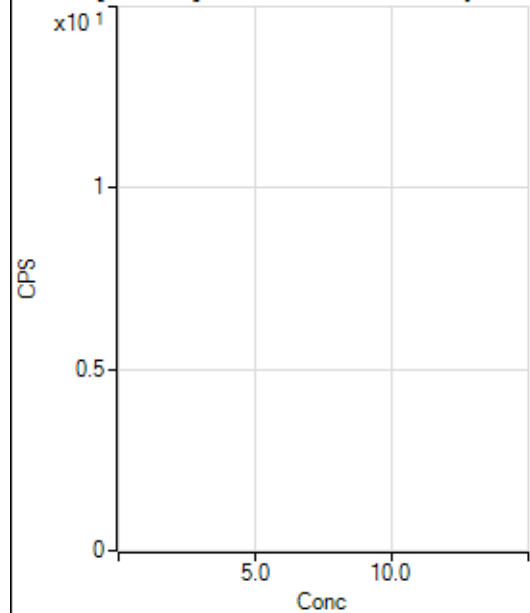
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 2.22   |       | P        | 86.6 |
| 2 | <input type="checkbox"/> |       |            | 4.44   |       | P        | 114. |
| 3 | <input type="checkbox"/> |       |            | 10.00  |       | P        | 66.7 |
| 4 | <input type="checkbox"/> |       |            | 26.67  |       | P        | 45.1 |
| 5 | <input type="checkbox"/> |       |            | 32.22  |       | P        | 6.0  |
| 6 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 17.8 |
| 7 | <input type="checkbox"/> |       |            | 180.00 |       | P        | 18.8 |
| 8 | <input type="checkbox"/> |       |            | 497.79 |       | P        | 0.4  |

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

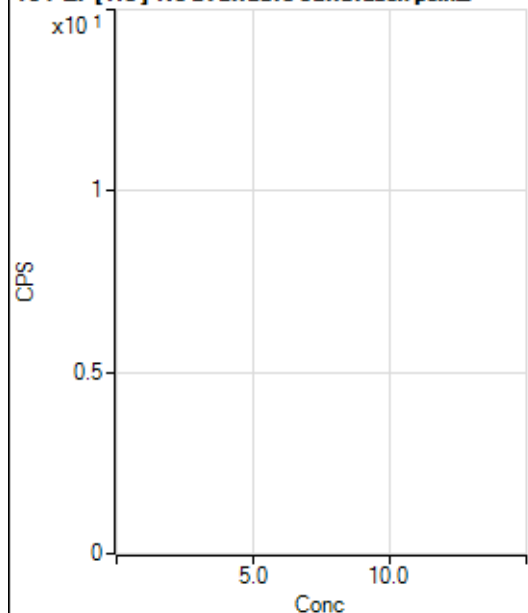
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS     | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|---------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 111.11  |       | P        | 8.7  |
| 2 | <input type="checkbox"/> |       |            | 86.11   |       | P        | 31.1 |
| 3 | <input type="checkbox"/> |       |            | 77.78   |       | P        | 48.3 |
| 4 | <input type="checkbox"/> |       |            | 102.78  |       | P        | 20.4 |
| 5 | <input type="checkbox"/> |       |            | 186.12  |       | P        | 24.7 |
| 6 | <input type="checkbox"/> |       |            | 225.01  |       | P        | 14.8 |
| 7 | <input type="checkbox"/> |       |            | 325.01  |       | P        | 13.6 |
| 8 | <input type="checkbox"/> |       |            | 1183.42 |       | P        | 10.2 |

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

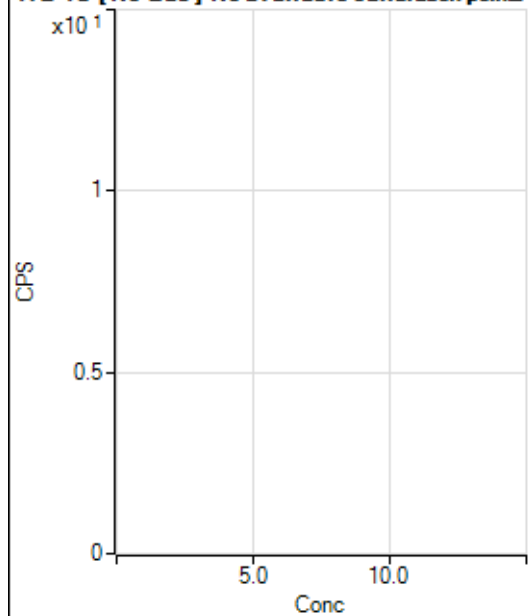
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 130.00 |       | P        | 9.2  |
| 2 | <input type="checkbox"/> |       |            | 100.00 |       | P        | 23.3 |
| 3 | <input type="checkbox"/> |       |            | 114.45 |       | P        | 8.9  |
| 4 | <input type="checkbox"/> |       |            | 161.12 |       | P        | 12.1 |
| 5 | <input type="checkbox"/> |       |            | 147.78 |       | P        | 14.7 |
| 6 | <input type="checkbox"/> |       |            | 196.67 |       | P        | 11.1 |
| 7 | <input type="checkbox"/> |       |            | 291.12 |       | P        | 15.8 |
| 8 | <input type="checkbox"/> |       |            | 796.70 |       | P        | 9.1  |

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

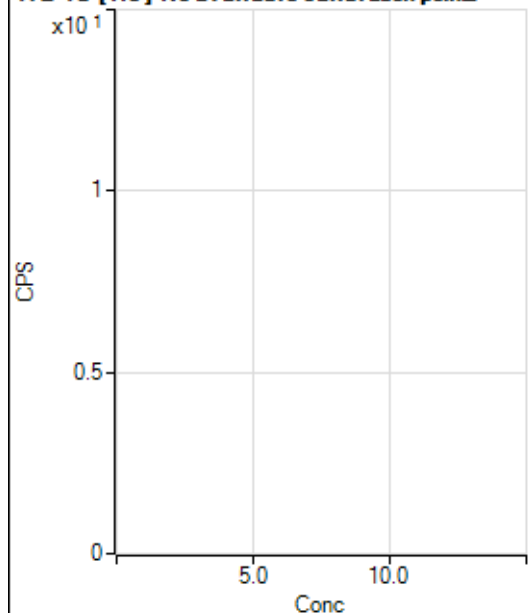
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 17.3 |
| 2 | <input type="checkbox"/> |       |            | 55.56  |       | P        | 48.2 |
| 3 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 41.7 |
| 4 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 12.5 |
| 5 | <input type="checkbox"/> |       |            | 77.78  |       | P        | 16.4 |
| 6 | <input type="checkbox"/> |       |            | 125.01 |       | P        | 17.6 |
| 7 | <input type="checkbox"/> |       |            | 200.01 |       | P        | 23.2 |
| 8 | <input type="checkbox"/> |       |            | 194.45 |       | P        | 20.3 |

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

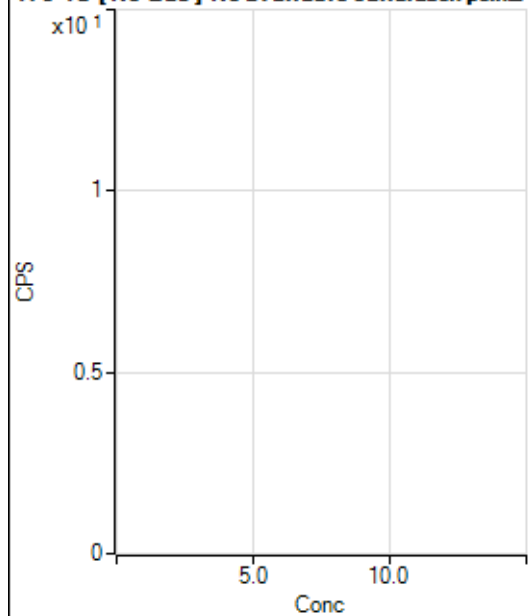
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 20.00  |       | P        | 57.7 |
| 2 | <input type="checkbox"/> |       |            | 24.45  |       | P        | 28.4 |
| 3 | <input type="checkbox"/> |       |            | 21.11  |       | P        | 59.8 |
| 4 | <input type="checkbox"/> |       |            | 25.56  |       | P        | 32.8 |
| 5 | <input type="checkbox"/> |       |            | 33.33  |       | P        | 17.3 |
| 6 | <input type="checkbox"/> |       |            | 44.45  |       | P        | 35.4 |
| 7 | <input type="checkbox"/> |       |            | 56.67  |       | P        | 17.6 |
| 8 | <input type="checkbox"/> |       |            | 107.78 |       | P        | 44.2 |

**172 Yb [ No Gas ] No available calibration points**

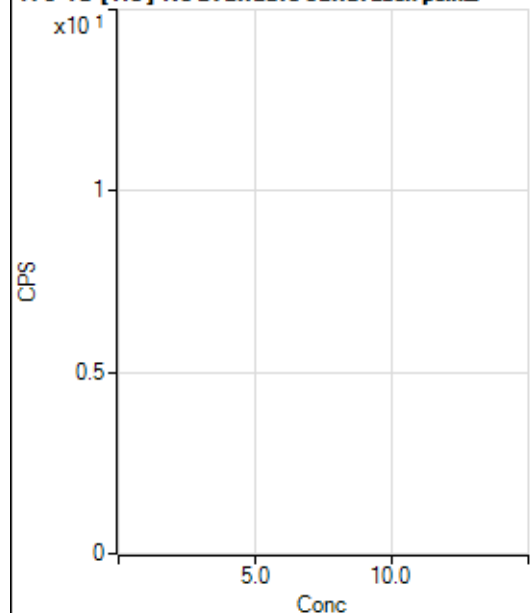
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 58.34  |       | P        | 37.8 |
| 2 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 12.5 |
| 3 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 12.5 |
| 4 | <input type="checkbox"/> |       |            | 72.23  |       | P        | 26.7 |
| 5 | <input type="checkbox"/> |       |            | 100.01 |       | P        | 14.4 |
| 6 | <input type="checkbox"/> |       |            | 150.00 |       | P        | 5.6  |
| 7 | <input type="checkbox"/> |       |            | 191.67 |       | P        | 15.7 |
| 8 | <input type="checkbox"/> |       |            | 155.56 |       | P        | 38.8 |

**172 Yb [He] No available calibration points**

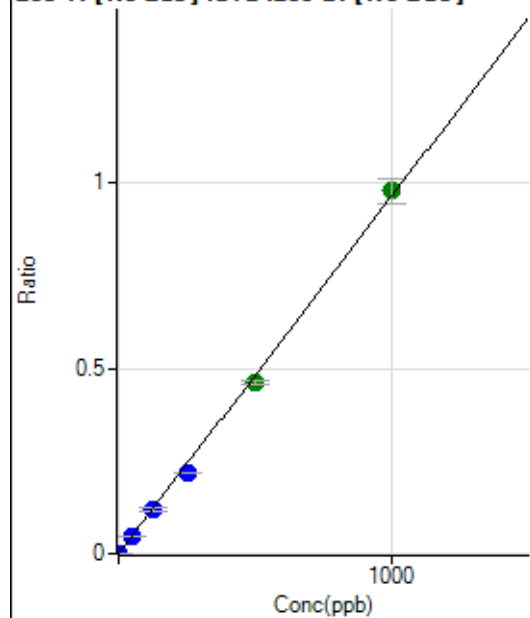
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS    | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|--------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 37.04  |       | P        | 22.9 |
| 2 | <input type="checkbox"/> |       |            | 18.52  |       | P        | 62.4 |
| 3 | <input type="checkbox"/> |       |            | 29.63  |       | P        | 10.8 |
| 4 | <input type="checkbox"/> |       |            | 61.11  |       | P        | 36.4 |
| 5 | <input type="checkbox"/> |       |            | 50.00  |       | P        | 11.1 |
| 6 | <input type="checkbox"/> |       |            | 85.19  |       | P        | 30.1 |
| 7 | <input type="checkbox"/> |       |            | 122.23 |       | P        | 16.4 |
| 8 | <input type="checkbox"/> |       |            | 66.67  |       | P        | 14.4 |

**176 Yb [No Gas] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD  |
|---|--------------------------|-------|------------|----------|-------|----------|------|
| 1 | <input type="checkbox"/> |       |            | 1450.12  |       | P        | 2.5  |
| 2 | <input type="checkbox"/> |       |            | 1450.13  |       | P        | 14.5 |
| 3 | <input type="checkbox"/> |       |            | 2361.40  |       | P        | 9.0  |
| 4 | <input type="checkbox"/> |       |            | 4248.01  |       | P        | 4.8  |
| 5 | <input type="checkbox"/> |       |            | 7079.84  |       | P        | 3.9  |
| 6 | <input type="checkbox"/> |       |            | 12828.78 |       | P        | 3.5  |
| 7 | <input type="checkbox"/> |       |            | 25639.48 |       | P        | 2.0  |
| 8 | <input type="checkbox"/> |       |            | 1391.78  |       | P        | 11.1 |

**176 Yb [He] No available calibration points**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS      | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|----------|-------|----------|-----|
| 1 | <input type="checkbox"/> |       |            | 10070.66 |       | P        | 3.1 |
| 2 | <input type="checkbox"/> |       |            | 9731.51  |       | P        | 4.5 |
| 3 | <input type="checkbox"/> |       |            | 9627.73  |       | P        | 1.8 |
| 4 | <input type="checkbox"/> |       |            | 9879.79  |       | P        | 1.0 |
| 5 | <input type="checkbox"/> |       |            | 11697.98 |       | P        | 4.0 |
| 6 | <input type="checkbox"/> |       |            | 14224.54 |       | P        | 1.4 |
| 7 | <input type="checkbox"/> |       |            | 19459.03 |       | P        | 1.7 |
| 8 | <input type="checkbox"/> |       |            | 9679.61  |       | P        | 1.5 |

**203 Tl [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      | 44.44      | 0.0000 | P        | 22.0 |
| 2 | <input type="checkbox"/> | 1.000    | 0.841      | 5198.41    | 0.0008 | P        | 4.5  |
| 3 | <input type="checkbox"/> | 50.000   | 48.050     | 278594.21  | 0.0463 | P        | 8.5  |
| 4 | <input type="checkbox"/> | 125.000  | 123.877    | 694183.61  | 0.1192 | P        | 7.0  |
| 5 | <input type="checkbox"/> | 250.000  | 226.963    | 1345888.70 | 0.2185 | P        | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 480.048    | 2840542.45 | 0.4620 | A        | 2.1  |
| 7 | <input type="checkbox"/> | 1000.000 | 1015.973   | 5774780.03 | 0.9778 | A        | 6.8  |
| 8 | <input type="checkbox"/> |          |            | 1614.06    | 0.0003 | P        | 4.8  |

$$y = 9.6246\text{E-}004 * x + 6.9558\text{E-}006$$

$$R = 0.9994$$

$$DL = 0.004776$$

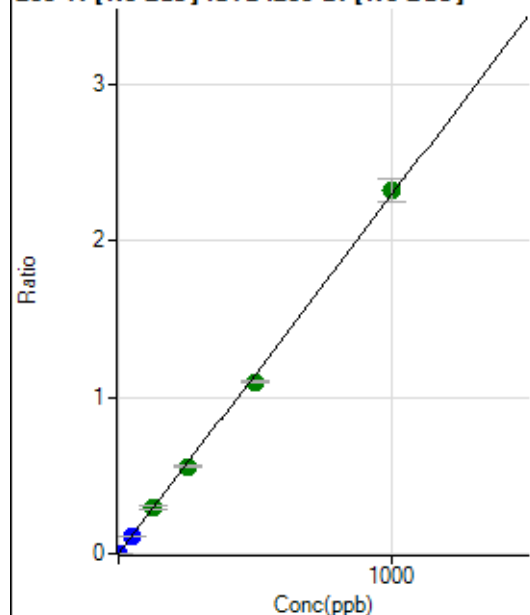
$$BEC = 0.007227$$

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<br>. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|----------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 186.12      | 0.0000 | P        | 16.6 |
| 2 | <input type="checkbox"/> | 1.000    | 0.883      | 13070.91    | 0.0021 | P        | 1.2  |
| 3 | <input type="checkbox"/> | 50.000   | 47.993     | 662478.07   | 0.1101 | P        | 9.8  |
| 4 | <input type="checkbox"/> | 125.000  | 130.521    | 1741112.63  | 0.2993 | A        | 8.7  |
| 5 | <input type="checkbox"/> | 250.000  | 243.467    | 3439669.87  | 0.5582 | A        | 0.5  |
| 6 | <input type="checkbox"/> | 500.000  | 478.942    | 6750475.50  | 1.0980 | A        | 1.4  |
| 7 | <input type="checkbox"/> | 1000.000 | 1011.573   | 13698404.82 | 2.3191 | A        | 6.5  |
| 8 | <input type="checkbox"/> |          |            | 4131.52     | 0.0008 | P        | 5.4  |

$$y = 0.0023 * x + 2.9099E-005$$

$$R = 0.9996$$

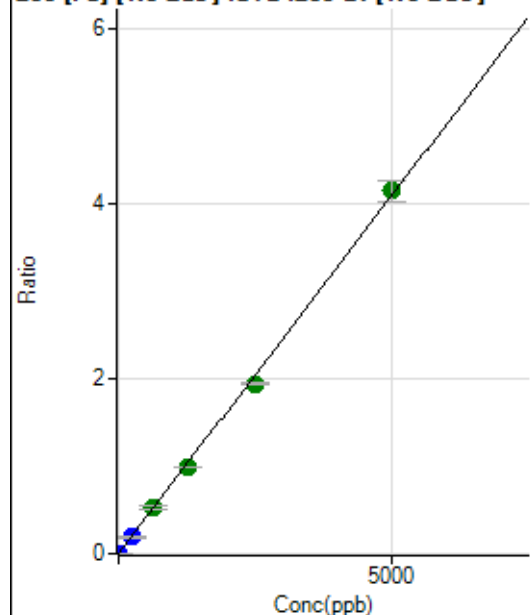
$$DL = 0.006323$$

$$BEC = 0.01269$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | Rj<br>ct                 | Conc.    | Calc Conc. | CPS         | Ratio  | Det<br>. | RSD |
|---|--------------------------|----------|------------|-------------|--------|----------|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 651.88      | 0.0001 | P        | 8.2 |
| 2 | <input type="checkbox"/> | 1.000    | 0.849      | 5069.59     | 0.0008 | P        | 1.3 |
| 3 | <input type="checkbox"/> | 250.000  | 234.630    | 1156358.40  | 0.1920 | P        | 8.6 |
| 4 | <input type="checkbox"/> | 625.000  | 653.547    | 3112666.16  | 0.5346 | A        | 6.8 |
| 5 | <input type="checkbox"/> | 1250.000 | 1210.719   | 6101427.05  | 0.9903 | A        | 0.6 |
| 6 | <input type="checkbox"/> | 2500.000 | 2373.779   | 11935490.31 | 1.9414 | A        | 1.4 |
| 7 | <input type="checkbox"/> | 5000.000 | 5070.131   | 24500926.01 | 4.1466 | A        | 5.5 |
| 8 | <input type="checkbox"/> |          |            | 12600.47    | 0.0024 | P        | 3.2 |

$$y = 8.1783E-004 * x + 1.0194E-004$$

$$R = 0.9995$$

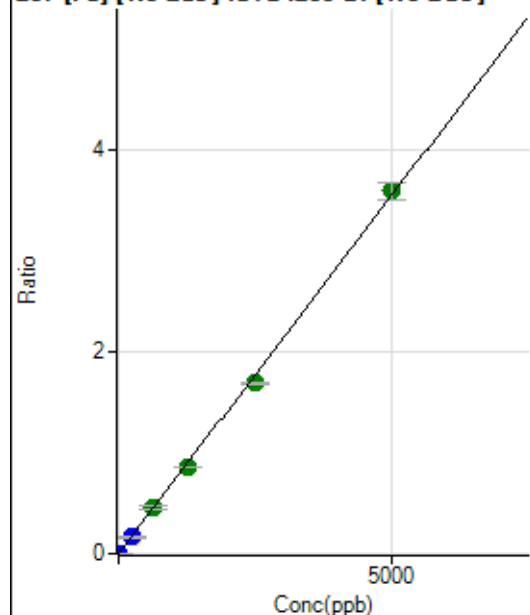
$$DL = 0.03081$$

$$BEC = 0.1247$$

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      | 557.43      | 0.0001 | P   | 5.9 |
| 2 | <input type="checkbox"/> | 1.000    | 0.854      | 4404.54     | 0.0007 | P   | 3.9 |
| 3 | <input type="checkbox"/> | 250.000  | 235.112    | 1004484.19  | 0.1667 | P   | 7.4 |
| 4 | <input type="checkbox"/> | 625.000  | 648.938    | 2675715.48  | 0.4599 | A   | 8.7 |
| 5 | <input type="checkbox"/> | 1250.000 | 1208.510   | 5276119.73  | 0.8564 | A   | 1.1 |
| 6 | <input type="checkbox"/> | 2500.000 | 2383.559   | 10383160.88 | 1.6889 | A   | 1.5 |
| 7 | <input type="checkbox"/> | 5000.000 | 5066.345   | 21214783.34 | 3.5897 | A   | 5.1 |
| 8 | <input type="checkbox"/> |          |            | 10896.18    | 0.0020 | P   | 8.7 |

$$y = 7.0853E-004 * x + 8.7189E-005$$

$$R = 0.9995$$

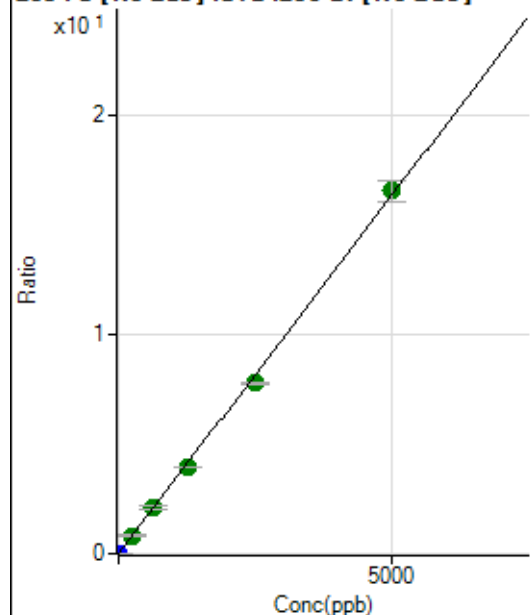
$$DL = 0.02174$$

$$BEC = 0.1231$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>j</sub><br>ct     | Conc.    | Calc Conc. | CPS         | Ratio   | Det | RSD |
|---|--------------------------|----------|------------|-------------|---------|-----|-----|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 2594.60     | 0.0004  | P   | 2.1 |
| 2 | <input type="checkbox"/> | 1.000    | 0.841      | 20074.96    | 0.0032  | P   | 2.2 |
| 3 | <input type="checkbox"/> | 250.000  | 246.724    | 4857126.80  | 0.8063  | A   | 8.2 |
| 4 | <input type="checkbox"/> | 625.000  | 645.757    | 12276075.94 | 2.1096  | A   | 8.2 |
| 5 | <input type="checkbox"/> | 1250.000 | 1209.189   | 24336955.29 | 3.9499  | A   | 0.7 |
| 6 | <input type="checkbox"/> | 2500.000 | 2379.131   | 47777896.90 | 7.7712  | A   | 1.0 |
| 7 | <input type="checkbox"/> | 5000.000 | 5068.207   | 97811839.22 | 16.5543 | A   | 5.6 |
| 8 | <input type="checkbox"/> |          |            | 50987.96    | 0.0096  | P   | 4.7 |

$$y = 0.0033 * x + 4.0581E-004$$

$$R = 0.9995$$

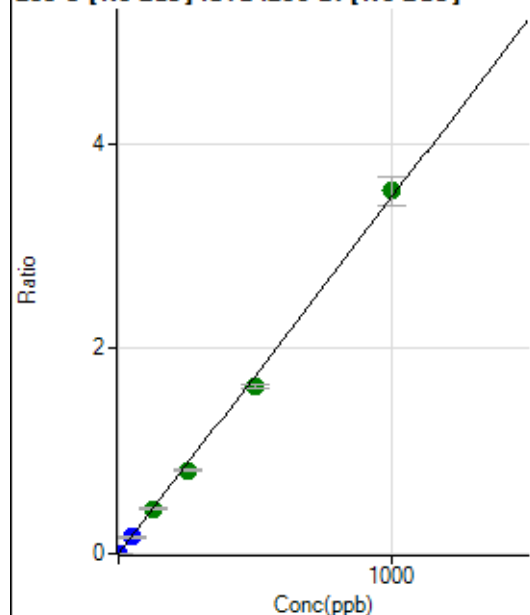
$$DL = 0.007974$$

$$BEC = 0.1242$$

Weight: &lt;None&gt;

Min Conc: 0

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



|   | R <sub>ct</sub>          | Conc.    | Calc Conc. | CPS         | Ratio  | Det. | RSD  |
|---|--------------------------|----------|------------|-------------|--------|------|------|
| 1 | <input type="checkbox"/> | 0.000    | 0.000      | 19.44       | 0.0000 | P    | 49.7 |
| 2 | <input type="checkbox"/> | 1.000    | 0.833      | 18416.62    | 0.0029 | P    | 4.2  |
| 3 | <input type="checkbox"/> | 50.000   | 46.996     | 982838.76   | 0.1631 | P    | 8.1  |
| 4 | <input type="checkbox"/> | 125.000  | 126.287    | 2552268.22  | 0.4384 | A    | 7.1  |
| 5 | <input type="checkbox"/> | 250.000  | 234.390    | 5012756.10  | 0.8136 | A    | 1.4  |
| 6 | <input type="checkbox"/> | 500.000  | 470.288    | 10037671.84 | 1.6325 | A    | 2.3  |
| 7 | <input type="checkbox"/> | 1000.000 | 1018.748   | 20872726.85 | 3.5364 | A    | 8.3  |
| 8 | <input type="checkbox"/> |          |            | 4078.86     | 0.0008 | P    | 7.7  |

$$y = 0.0035 * x + 3.0456E-006$$

$$R = 0.9992$$

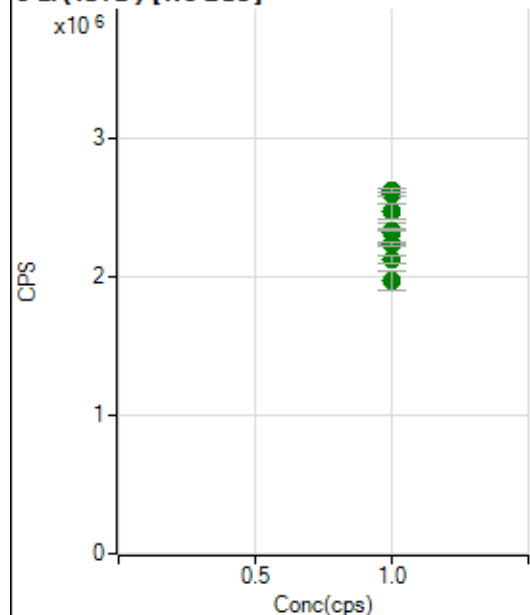
$$DL = 0.001309$$

$$BEC = 0.0008774$$

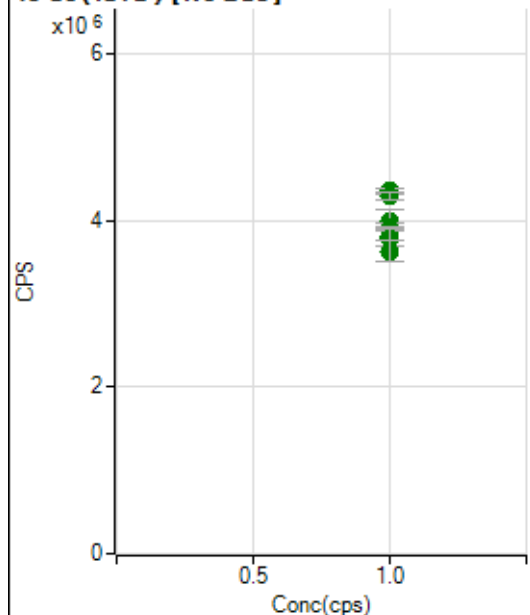
Weight: &lt;None&gt;

Min Conc: 0

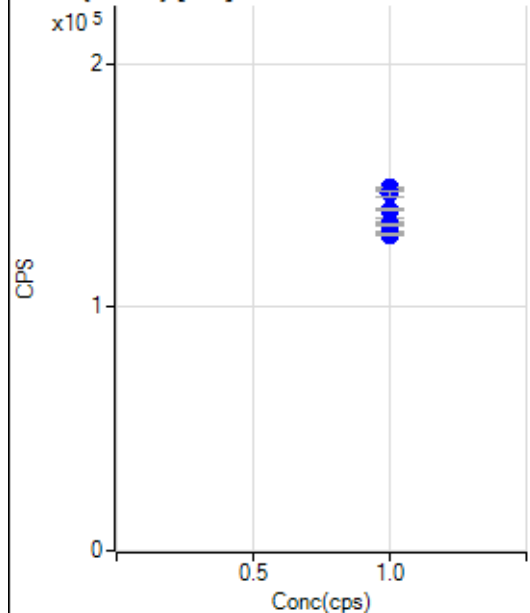
6 Li (ISTD) [No Gas]



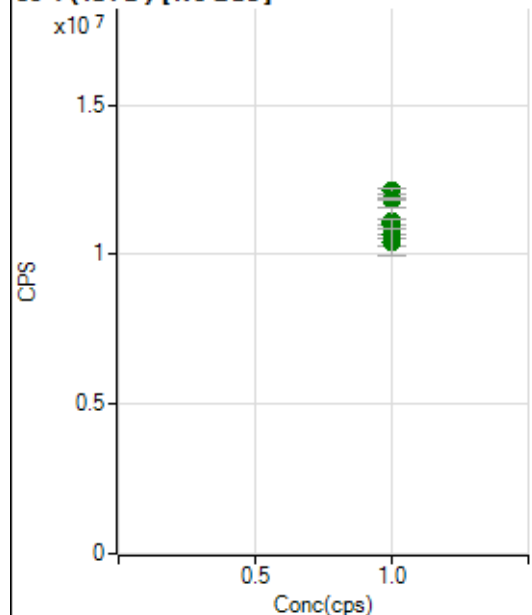
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 2603032.20 |       | A    | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 2623846.94 |       | A    | 0.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2476707.42 |       | A    | 4.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2320087.36 |       | A    | 6.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2340265.67 |       | A    | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2239711.47 |       | A    | 1.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2124741.75 |       | A    | 3.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1974910.39 |       | A    | 7.0 |

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

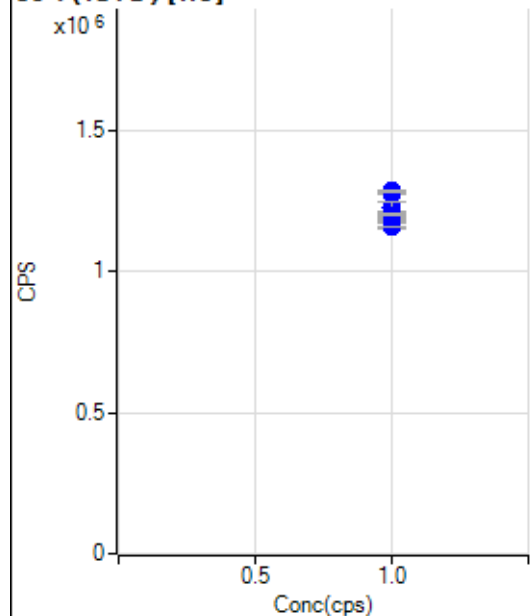
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 4354339.21 |       | A        | 1.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 4291225.14 |       | A        | 1.9 |
| 3 | <input type="checkbox"/> | 1.000 |            | 4000697.19 |       | A        | 6.2 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3811369.08 |       | A        | 6.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3926135.50 |       | A        | 1.8 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3904489.28 |       | A        | 1.3 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3795074.73 |       | A        | 5.1 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3627130.68 |       | A        | 7.2 |

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

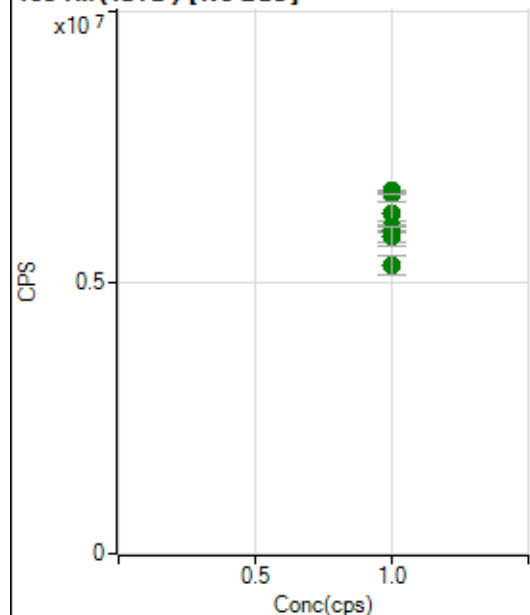
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 148863.48 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 146575.32 |       | P        | 1.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 140030.43 |       | P        | 0.9 |
| 4 | <input type="checkbox"/> | 1.000 |            | 134510.23 |       | P        | 0.9 |
| 5 | <input type="checkbox"/> | 1.000 |            | 133351.78 |       | P        | 4.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 129639.02 |       | P        | 0.4 |
| 7 | <input type="checkbox"/> | 1.000 |            | 134098.09 |       | P        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 133836.89 |       | P        | 0.7 |

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

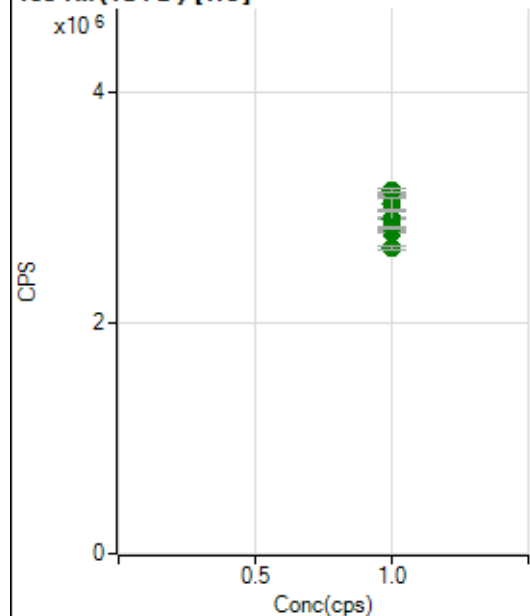
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS         | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|-------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 12130107.46 |       | A    | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 11841834.96 |       | A    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 11123813.31 |       | A    | 7.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 10651010.88 |       | A    | 6.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 10999835.60 |       | A    | 2.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 11042027.68 |       | A    | 2.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 10865748.59 |       | A    | 6.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 10413027.97 |       | A    | 8.1 |

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

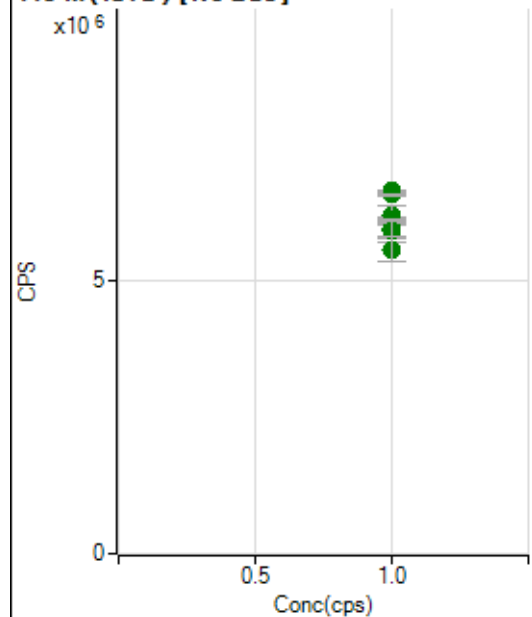
|   | R <sub>ct</sub>          | Conc. | Calc Conc. | CPS        | Ratio | Det. | RSD |
|---|--------------------------|-------|------------|------------|-------|------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 1275974.76 |       | P    | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 1284286.62 |       | P    | 0.5 |
| 3 | <input type="checkbox"/> | 1.000 |            | 1227872.11 |       | P    | 2.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 1176561.98 |       | P    | 0.5 |
| 5 | <input type="checkbox"/> | 1.000 |            | 1199825.75 |       | M    | 8.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 1156567.87 |       | P    | 0.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 1189821.89 |       | P    | 0.6 |
| 8 | <input type="checkbox"/> | 1.000 |            | 1199068.12 |       | P    | 0.5 |

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

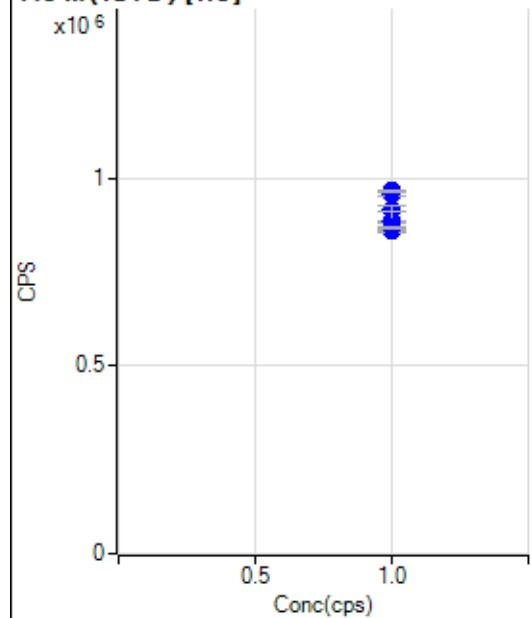
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6679451.49 |       | A        | 0.8 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6622575.97 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6263544.67 |       | A        | 6.3 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5938899.09 |       | A        | 6.6 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6005473.66 |       | A        | 1.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 5958188.50 |       | A        | 2.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5837414.06 |       | A        | 5.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5306734.97 |       | A        | 6.8 |

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

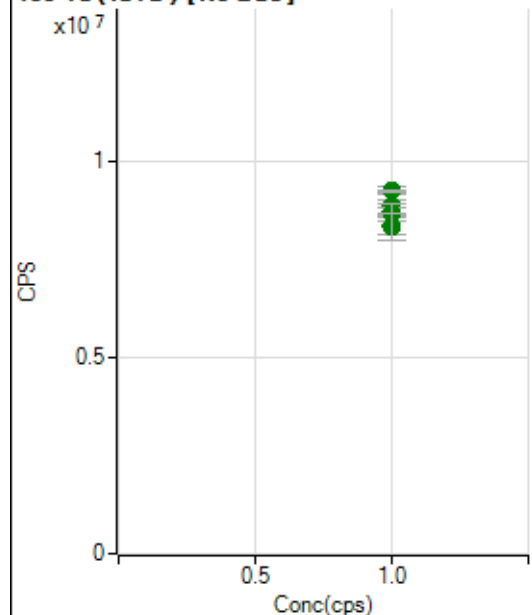
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3114670.75 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3146957.73 |       | A        | 1.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3034344.64 |       | A        | 3.1 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2905751.49 |       | A        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2903493.64 |       | A        | 4.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2792840.93 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2827706.45 |       | A        | 1.0 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2656534.92 |       | A        | 1.1 |

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

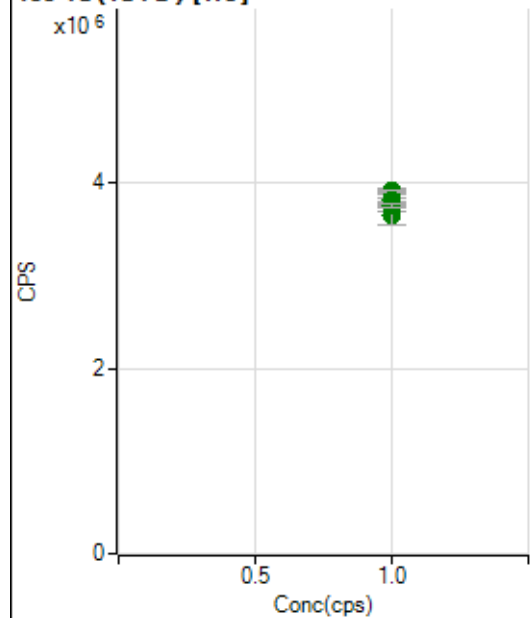
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6660958.81 |       | A        | 0.7 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6587001.59 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6204830.67 |       | A        | 5.6 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5959874.15 |       | A        | 5.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6141761.97 |       | A        | 0.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6097470.25 |       | A        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5933258.15 |       | A        | 6.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5593864.69 |       | A        | 7.7 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS       | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|-----------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 959068.76 |       | P        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 967323.42 |       | P        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 919145.54 |       | P        | 1.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 884820.23 |       | P        | 0.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 886993.07 |       | P        | 5.5 |
| 6 | <input type="checkbox"/> | 1.000 |            | 860787.32 |       | P        | 0.6 |
| 7 | <input type="checkbox"/> | 1.000 |            | 871186.62 |       | P        | 0.2 |
| 8 | <input type="checkbox"/> | 1.000 |            | 871080.35 |       | P        | 0.5 |

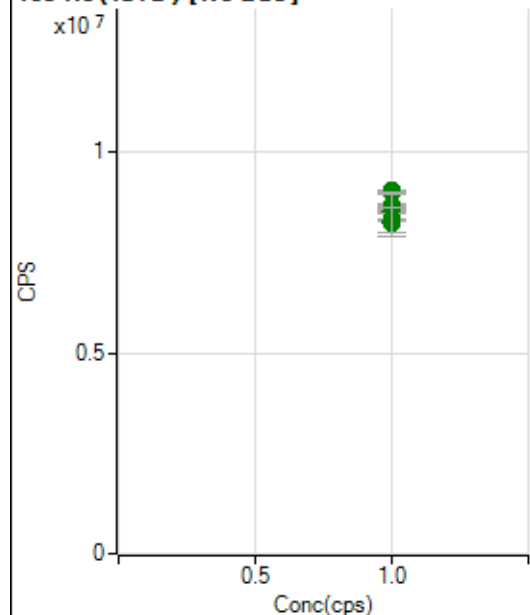
**159 Tb (ISTD) [No Gas]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9235681.18 |       | A        | 2.1 |
| 2 | <input type="checkbox"/> | 1.000 |            | 9240800.70 |       | A        | 0.8 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8792578.13 |       | A        | 5.4 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8390581.40 |       | A        | 6.0 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8704279.11 |       | A        | 3.1 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8848541.12 |       | A        | 1.1 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8690576.96 |       | A        | 5.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8319441.61 |       | A        | 8.3 |

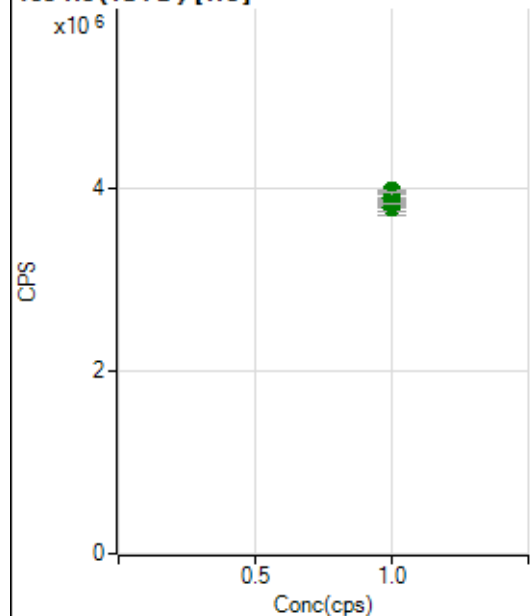
**159 Tb (ISTD) [He]**

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3919389.80 |       | A        | 1.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3916865.43 |       | A        | 0.7 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3819436.40 |       | A        | 0.8 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3734282.48 |       | A        | 1.4 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3662839.39 |       | A        | 5.6 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3757439.94 |       | A        | 1.2 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3793328.80 |       | A        | 0.5 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3766357.38 |       | A        | 1.1 |

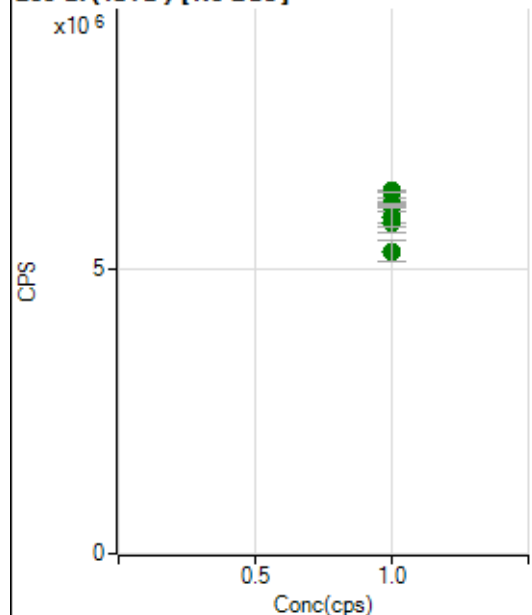


**165 Ho (ISTD) [No Gas]**

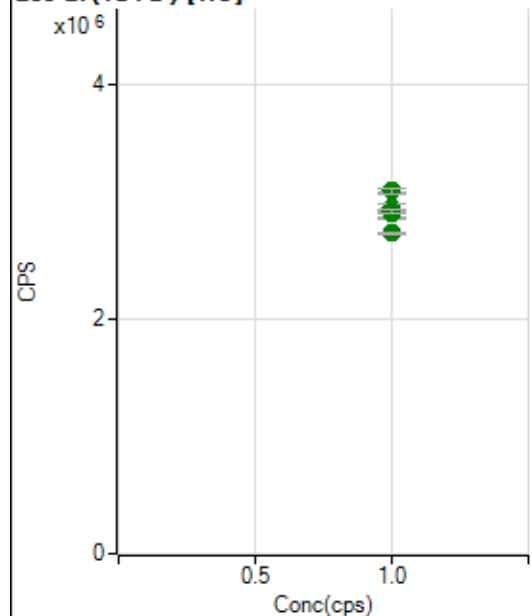
|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 9043296.91 |       | A        | 0.6 |
| 2 | <input type="checkbox"/> | 1.000 |            | 8998541.69 |       | A        | 0.3 |
| 3 | <input type="checkbox"/> | 1.000 |            | 8503689.25 |       | A        | 5.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 8266835.43 |       | A        | 6.7 |
| 5 | <input type="checkbox"/> | 1.000 |            | 8545550.63 |       | A        | 0.9 |
| 6 | <input type="checkbox"/> | 1.000 |            | 8690898.20 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 8639384.05 |       | A        | 7.4 |
| 8 | <input type="checkbox"/> | 1.000 |            | 8271170.32 |       | A        | 8.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3980551.61 |       | A        | 0.4 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3971211.16 |       | A        | 1.0 |
| 3 | <input type="checkbox"/> | 1.000 |            | 3874259.84 |       | A        | 1.0 |
| 4 | <input type="checkbox"/> | 1.000 |            | 3810003.21 |       | A        | 0.8 |
| 5 | <input type="checkbox"/> | 1.000 |            | 3804769.63 |       | A        | 4.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 3793520.43 |       | A        | 1.5 |
| 7 | <input type="checkbox"/> | 1.000 |            | 3911079.87 |       | A        | 2.7 |
| 8 | <input type="checkbox"/> | 1.000 |            | 3841472.68 |       | A        | 0.3 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 6393530.67 |       | A        | 0.5 |
| 2 | <input type="checkbox"/> | 1.000 |            | 6365132.34 |       | A        | 0.2 |
| 3 | <input type="checkbox"/> | 1.000 |            | 6048848.52 |       | A        | 7.5 |
| 4 | <input type="checkbox"/> | 1.000 |            | 5838978.53 |       | A        | 6.2 |
| 5 | <input type="checkbox"/> | 1.000 |            | 6161777.20 |       | A        | 1.7 |
| 6 | <input type="checkbox"/> | 1.000 |            | 6148096.02 |       | A        | 0.8 |
| 7 | <input type="checkbox"/> | 1.000 |            | 5921521.92 |       | A        | 5.9 |
| 8 | <input type="checkbox"/> | 1.000 |            | 5332219.29 |       | A        | 7.2 |

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

|   | Rj<br>ct                 | Conc. | Calc Conc. | CPS        | Ratio | Det<br>. | RSD |
|---|--------------------------|-------|------------|------------|-------|----------|-----|
| 1 | <input type="checkbox"/> | 1.000 |            | 3093564.29 |       | A        | 1.0 |
| 2 | <input type="checkbox"/> | 1.000 |            | 3095061.59 |       | A        | 1.4 |
| 3 | <input type="checkbox"/> | 1.000 |            | 2956754.16 |       | A        | 1.7 |
| 4 | <input type="checkbox"/> | 1.000 |            | 2896746.13 |       | A        | 1.3 |
| 5 | <input type="checkbox"/> | 1.000 |            | 2923960.93 |       | A        | 4.4 |
| 6 | <input type="checkbox"/> | 1.000 |            | 2907002.56 |       | A        | 0.7 |
| 7 | <input type="checkbox"/> | 1.000 |            | 2919972.60 |       | A        | 1.3 |
| 8 | <input type="checkbox"/> | 1.000 |            | 2731748.68 |       | A        | 0.4 |

# US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8071223 MS.b

Acq. Date-Time 2023-07-12 09:39:12

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

## Sensitivity

| Mass | Conc. [ug/l] | Count  | CPS        | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%   | RSD% (Required) |
|------|--------------|--------|------------|----------------------------|-------------|--------|-----------------|
| 9    |              | 9014   | 90140.09   |                            |             | 2.552  | 5.000           |
| 24   |              | 368357 | 3683569.46 |                            |             | 2.338  | 5.000           |
| 25   |              | 48006  | 480058.03  |                            |             | 2.199  | 5.000           |
| 26   |              | 56968  | 569677.38  |                            |             | 2.515  | 5.000           |
| 59   |              | 72216  | 722163.49  |                            |             | 3.971  | 5.000           |
| 113  |              | 8162   | 81623.54   |                            |             | 1.946  | 5.000           |
| 115  |              | 105309 | 1053092.38 |                            |             | 2.916  | 5.000           |
| 206  |              | 27278  | 272775.17  |                            |             | 2.065  | 5.000           |
| 207  |              | 24422  | 244220.42  |                            |             | 2.541  | 5.000           |
| 208  |              | 59663  | 596630.07  |                            |             | 2.043  | 5.000           |
| 220  |              | 0      | 1.80       |                            |             | 31.672 |                 |

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

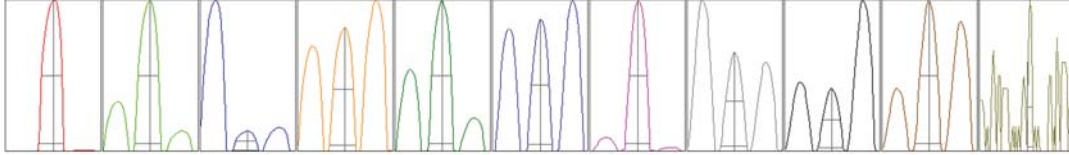
| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 9    | 9329        | 9125        | 8726        | 9007        | 8883        |
| 24   | 375525      | 371893      | 353426      | 369828      | 371113      |
| 25   | 49498       | 48063       | 46537       | 47781       | 48150       |
| 26   | 59211       | 56844       | 55207       | 56788       | 56789       |
| 59   | 76893       | 72374       | 69150       | 71455       | 71209       |
| 113  | 8336        | 8173        | 7924        | 8268        | 8110        |
| 115  | 109675      | 105847      | 101060      | 105202      | 104762      |
| 206  | 27668       | 27261       | 26333       | 27736       | 27390       |
| 207  | 24889       | 24259       | 23408       | 24687       | 24867       |
| 208  | 60223       | 60011       | 57550       | 59869       | 60663       |

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

Integration Time [sec] 0.1

## Resolution/Axis



| Mass | Peak Height | Axis   | Axis (Required) | Axis (Flag) |
|------|-------------|--------|-----------------|-------------|
| 9    | 14938.29    | 9.05   | 8.90 - 9.10     |             |
| 24   | 603107.28   | 24.00  | 23.90 - 24.10   |             |
| 25   | 79799.58    | 25.00  | 24.90 - 25.10   |             |
| 26   | 94110.22    | 26.00  | 25.90 - 26.10   |             |
| 59   | 126702.00   | 59.00  | 58.90 - 59.10   |             |
| 113  | 15450.12    | 113.05 | 112.90 - 113.10 |             |
| 115  | 196437.37   | 115.05 | 114.90 - 115.10 |             |
| 206  | 50983.21    | 206.00 | 205.90 - 206.10 |             |
| 207  | 45744.55    | 207.00 | 206.90 - 207.10 |             |
| 208  | 109964.61   | 208.00 | 207.90 - 208.10 |             |
| 220  | 0.35        | 220.05 | -               |             |

| Mass | W-50% | W-5%  | W-5% (Required) | W-5% (Flag) |
|------|-------|-------|-----------------|-------------|
| 9    | 0.64  | 0.782 | 0.900           |             |
| 24   | 0.65  | 0.831 | 0.900           |             |
| 25   | 0.64  | 0.792 | 0.900           |             |
| 26   | 0.64  | 0.830 | 0.900           |             |
| 59   | 0.60  | 0.780 | 0.900           |             |
| 113  | 0.55  | 0.771 | 0.900           |             |
| 115  | 0.55  | 0.775 | 0.900           |             |
| 206  | 0.55  | 0.826 | 0.900           |             |
| 207  | 0.55  | 0.794 | 0.900           |             |
| 208  | 0.56  | 0.814 | 0.900           |             |
| 220  | 0.16  | 0.196 |                 |             |

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

## Tune Parameters

### Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

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|              |         |                |          |               |            |
|--------------|---------|----------------|----------|---------------|------------|
| RF Power     | 1600 W  | Option Gas     | ---      | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C     |               |            |

## Lens Parameters

|            |          |               |        |            |        |
|------------|----------|---------------|--------|------------|--------|
| Extract 1  | -6.0 V   | Omega Lens    | 11.5 V | Deflect    | 14.6 V |
| Extract 2  | -250.0 V | Cell Entrance | -30 V  | Plate Bias | -50 V  |
| Omega Bias | -120 V   | Cell Exit     | -50 V  |            |        |

## Cell Parameters

|         |            |              |        |                       |       |
|---------|------------|--------------|--------|-----------------------|-------|
| Use Gas | No         | 3rd Gas Flow | ---    | Energy Discrimination | 4.0 V |
| He Flow | 0.0 mL/min | OctP Bias    | -8.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 140 V  |                       |       |

## QP Parameters

|             |     |             |        |         |        |
|-------------|-----|-------------|--------|---------|--------|
| Mass Gain   | 125 | Axis Gain   | 0.9995 | QP Bias | -4.0 V |
| Mass Offset | 124 | Axis Offset | 0.04   |         |        |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 1.5 mm | Torch V | -1.0 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.5 mV | Analog HV | 2324 V | Pulse HV | 1643 V |
|---------------|--------|-----------|--------|----------|--------|

[He]

## Sensitivity

| Mass | Conc. [ug/l] | Count | CPS       | Resp (Required) [cps/ug/l] | Resp (Flag) | RSD%  | RSD% (Required) |
|------|--------------|-------|-----------|----------------------------|-------------|-------|-----------------|
| 59   |              | 16458 | 164584.20 |                            |             | 3.791 |                 |
| 89   |              | 39407 | 394074.21 |                            |             | 3.812 |                 |
| 205  |              | 21515 | 215146.59 |                            |             | 3.059 |                 |

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

| Mass | Rep#1 Count | Rep#2 Count | Rep#3 Count | Rep#4 Count | Rep#5 Count |
|------|-------------|-------------|-------------|-------------|-------------|
| 59   | 16651       | 16919       | 15781       | 17123       | 15819       |
| 89   | 39846       | 40389       | 38099       | 41105       | 37597       |
| 205  | 21824       | 21756       | 20499       | 22216       | 21278       |

Integration Time [sec] 0.1

## Tune Parameters

### Plasma Parameters

|              |         |                |            |               |            |
|--------------|---------|----------------|------------|---------------|------------|
| Plasma Mode  | ---     | Nebulizer Gas  | 0.84 L/min | Dilution Gas  | 0.40 L/min |
| RF Power     | 1600 W  | Option Gas     | ---        | Auxiliary Gas | 0.90 L/min |
| RF Matching  | 1.40 V  | Nebulizer Pump | 0.10 rps   | Plasma Gas    | 15.0 L/min |
| Sample Depth | 10.0 mm | S/C Temp       | 2 °C       |               |            |

### Lens Parameters

|           |        |            |        |         |       |
|-----------|--------|------------|--------|---------|-------|
| Extract 1 | -6.0 V | Omega Lens | 11.5 V | Deflect | 3.8 V |
|-----------|--------|------------|--------|---------|-------|

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|            |          |               |       |            |       |
|------------|----------|---------------|-------|------------|-------|
| Extract 2  | -250.0 V | Cell Entrance | -50 V | Plate Bias | -60 V |
| Omega Bias | -120 V   | Cell Exit     | -70 V |            |       |

## Cell Parameters

|         |            |              |         |                       |       |
|---------|------------|--------------|---------|-----------------------|-------|
| Use Gas | Yes        | 3rd Gas Flow | ---     | Energy Discrimination | 5.0 V |
| He Flow | 4.5 mL/min | OctP Bias    | -18.0 V |                       |       |
| H2 Flow | ---        | OctP RF      | 200 V   |                       |       |

## QP Parameters

|             |     |             |        |         |         |
|-------------|-----|-------------|--------|---------|---------|
| Mass Gain   | 125 | Axis Gain   | 0.9995 | QP Bias | -13.0 V |
| Mass Offset | 124 | Axis Offset | 0.04   |         |         |

## Hardware Settings

### Torch

|         |        |         |         |
|---------|--------|---------|---------|
| Torch H | 1.5 mm | Torch V | -1.0 mm |
|---------|--------|---------|---------|

### EM

|               |        |           |        |          |        |
|---------------|--------|-----------|--------|----------|--------|
| Discriminator | 4.5 mV | Analog HV | 2324 V | Pulse HV | 1643 V |
|---------------|--------|-----------|--------|----------|--------|