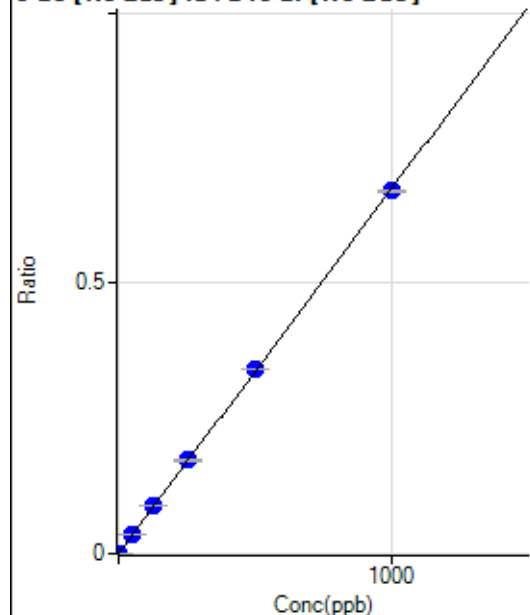


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7110620IMS.b\
Analysis File: P7110620IMS.batch.bin
DA Date-Time: 2020-11-10 16:33:56
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-06 11:33:34
2	004CALS.d	S02	2020-11-06 11:37:03
3	005CALS.d	S03	2020-11-06 11:40:32
4	006CALS.d	S04	2020-11-06 11:44:02
5	007CALS.d	S05	2020-11-06 11:47:28
6	008CALS.d	S06	2020-11-06 11:50:49
7	009CALS.d	S07	2020-11-06 11:54:06
8	010CALS.d	S08	2020-11-06 11:57:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	28.8
2	☐	1.000	0.970	2042.77	0.0007	P	2.4
3	☐	50.000	52.116	107012.45	0.0351	P	0.6
4	☐	125.000	131.211	261851.05	0.0885	P	0.9
5	☐	250.000	256.401	493667.25	0.1729	P	0.8
6	☐	500.000	505.627	960453.32	0.3409	P	0.8
7	☐	1000.000	994.704	1828080.73	0.6706	P	0.5
8	☐			288.90	0.0001	P	7.4

$$y = 6.7413\text{E-}004 * x + 1.0933\text{E-}005$$

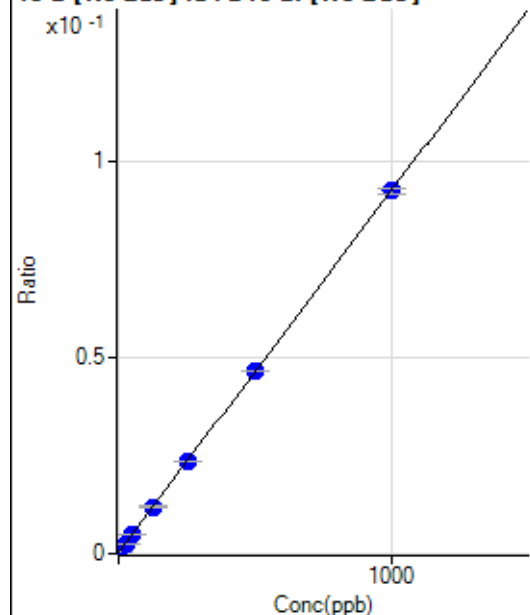
$$R = 0.9999$$

$$DL = 0.01402$$

$$BEC = 0.01622$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1052.85	0.0003	P	6.7
2	☐	25.000	22.350	7402.00	0.0024	P	3.1
3	☐	50.000	49.139	14865.92	0.0049	P	1.3
4	☐	125.000	126.181	35503.20	0.0120	P	3.2
5	☐	250.000	251.550	67307.75	0.0236	P	1.5
6	☐	500.000	501.108	131334.57	0.0466	P	0.8
7	☐	1000.000	999.020	252390.56	0.0926	P	1.5
8	☐			12666.63	0.0047	P	1.8

$$y = 9.2323\text{E-}005 * x + 3.4535\text{E-}004$$

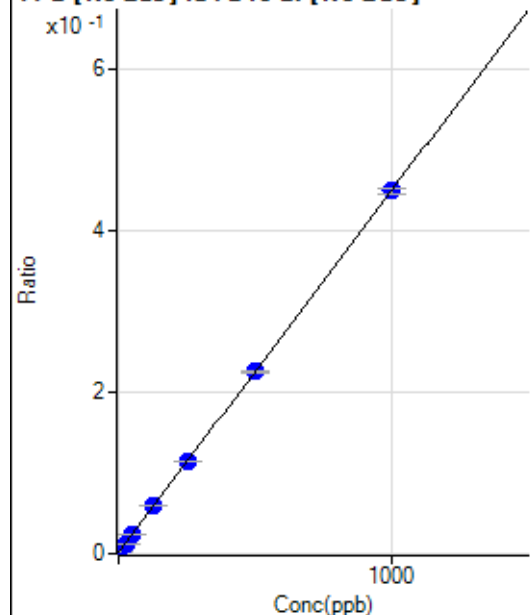
$$R = 1.0000$$

$$DL = 0.7468$$

$$BEC = 3.741$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4845.33	0.0016	P	5.7
2	☐	25.000	23.172	36767.24	0.0120	P	2.4
3	☐	50.000	50.428	73592.89	0.0242	P	1.8
4	☐	125.000	127.519	173699.14	0.0587	P	0.9
5	☐	250.000	251.257	325788.33	0.1141	P	1.7
6	☐	500.000	499.307	634416.71	0.2251	P	1.5
7	☐	1000.000	999.742	1224642.60	0.4492	P	1.4
8	☐			61084.47	0.0229	P	2.2

$$y = 4.4774\text{E-}004 * x + 0.0016$$

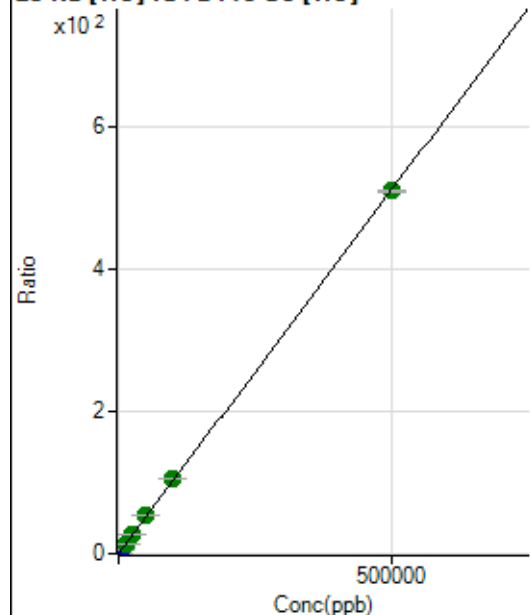
R = 1.0000

DL = 0.6078

BEC = 3.55

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24763.96	0.0507	P	1.2
2	☐	500.000	528.600	283748.40	0.5918	P	0.7
3	☐	5000.000	5710.290	2736849.99	5.8968	P	0.7
4	☐	12500.000	13473.057	6115557.13	13.8442	A	0.4
5	☐	25000.000	26233.840	11659465.18	26.9085	A	0.6
6	☐	50000.000	52871.129	22856564.06	54.1793	A	0.9
7	☐	100000.00	104007.77	44697565.13	106.5322	A	0.6
8	☐	500000.00	498818.18	227434633.4	510.7330	A	0.7

$$y = 0.0010 * x + 0.0507$$

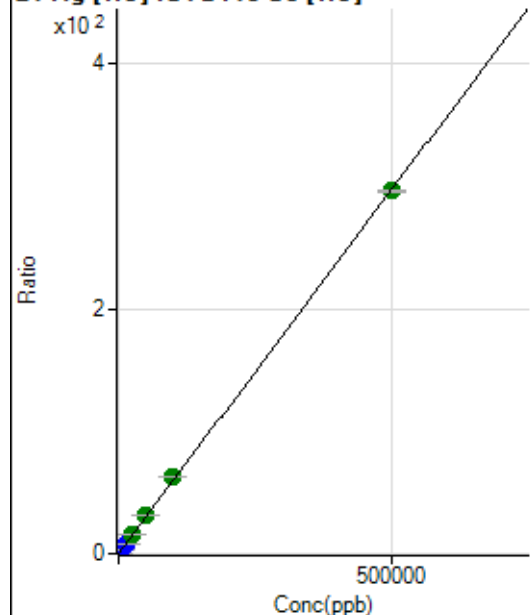
R = 1.0000

DL = 1.827

BEC = 49.5

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	919.50	0.0019	P	12.3
2	☐	500.000	520.284	149052.14	0.3109	P	1.0
3	☐	5000.000	5685.774	1568230.85	3.3789	P	0.9
4	☐	12500.000	14101.883	3700706.29	8.3775	P	0.8
5	☐	25000.000	26702.506	6872734.53	15.8615	A	1.3
6	☐	50000.000	53208.344	13333157.59	31.6043	A	0.7
7	☐	100000.00	104763.79	26108074.72	62.2251	A	0.2
8	☐	500000.00	498594.35	131870454.3	296.1359	A	0.9

$$y = 5.9394\text{E-}004 * x + 0.0019$$

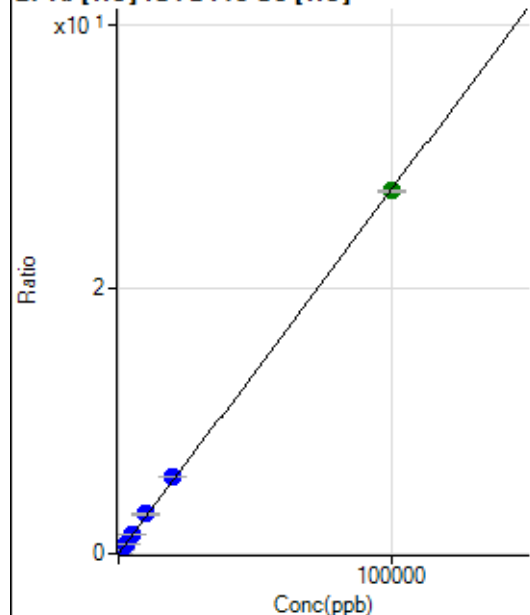
$$R = 0.9999$$

$$DL = 1.168$$

$$BEC = 3.168$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	233.34	0.0005	P	20.9
2	☐	20.000	20.266	2900.36	0.0061	P	5.8
3	☐	1000.000	1123.511	143627.27	0.3095	P	1.1
4	☐	2500.000	2801.666	340568.12	0.7710	P	0.3
5	☐	5000.000	5424.638	646613.28	1.4923	P	1.2
6	☐	10000.000	10839.485	1257803.87	2.9814	P	0.3
7	☐	20000.000	21178.643	2443964.05	5.8248	P	0.6
8	☐	100000.00	99650.314	12203977.79	27.4053	A	0.4

$$y = 2.7501\text{E-}004 * x + 4.7714\text{E-}004$$

$$R = 0.9999$$

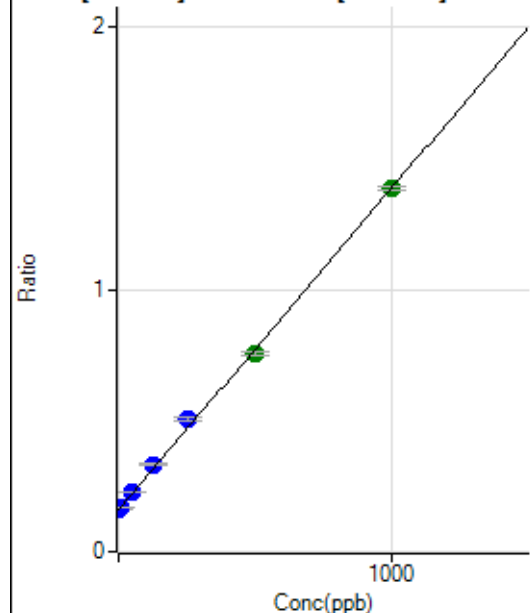
$$DL = 1.09$$

$$BEC = 1.735$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1315744.42	0.1598	P	0.9
2	☐	10.000	7.552	1388044.74	0.1691	P	1.0
3	☐	50.000	53.891	1836501.54	0.2259	P	1.3
4	☐	125.000	141.028	2574917.01	0.3329	P	3.0
5	☐	250.000	281.139	3900542.66	0.5048	P	2.8
6	☐	500.000	484.663	5719540.32	0.7546	A	1.6
7	☐	1000.000	997.710	10381326.62	1.3843	A	1.1
8	☐			2253462.55	0.2972	P	0.3

$$y = 0.0012 * x + 0.1598$$

$$R = 0.9992$$

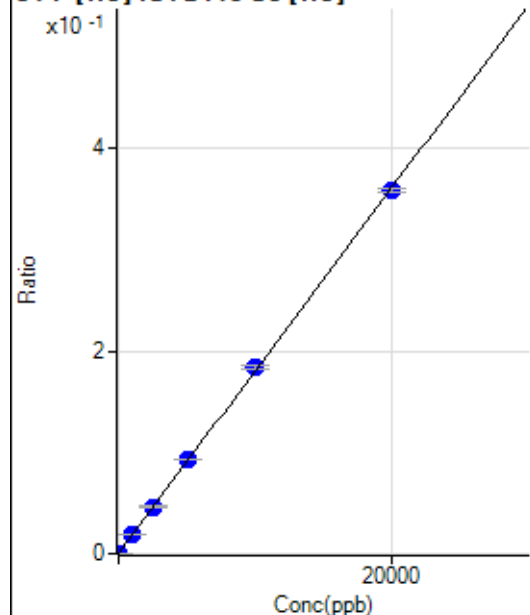
$$DL = 3.655$$

$$BEC = 130.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	2.240	150.00	0.0003	P	20.1
2	☐	0.000	-2.240	108.34	0.0002	P	34.0
3	☐	1000.000	1043.620	8858.38	0.0191	P	3.9
4	☐	2500.000	2564.205	20545.16	0.0465	P	2.5
5	☐	5000.000	5141.231	40290.92	0.0930	P	1.5
6	☐	10000.000	10202.967	77737.88	0.1843	P	1.2
7	☐	20000.000	19853.002	150327.50	0.3583	P	1.0
8	☐			288.90	0.0006	P	12.7

$$y = 1.8035E-005 * x + 2.6660E-004$$

$$R = 0.9999$$

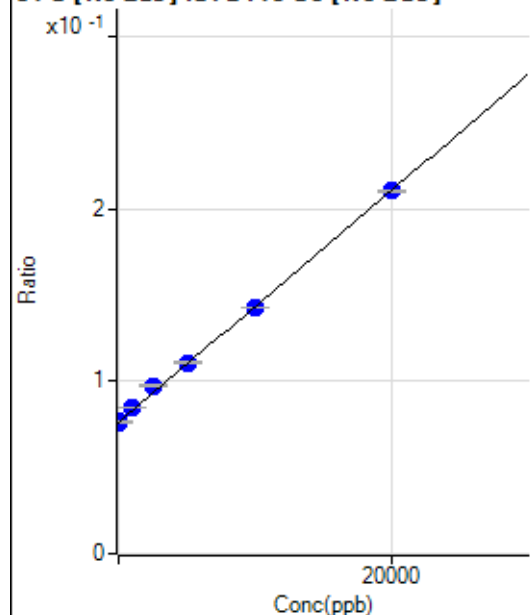
$$DL = 11.53$$

$$BEC = 14.78$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-33.744	626351.10	0.0761	P	1.1
2	☐	0.000	33.744	628287.50	0.0765	P	0.7
3	☐	1000.000	1247.679	688336.30	0.0847	P	0.7
4	☐	2500.000	3100.311	751602.11	0.0971	P	0.9
5	☐	5000.000	5139.889	856619.80	0.1108	P	0.2
6	☐	10000.000	9886.737	1082012.43	0.1428	P	0.6
7	☐	20000.000	19934.236	1577047.56	0.2103	P	0.5
8	☐			530455.68	0.0700	P	0.7

$$y = 6.7218\text{E-}006 * x + 0.0763$$

R = 0.9995

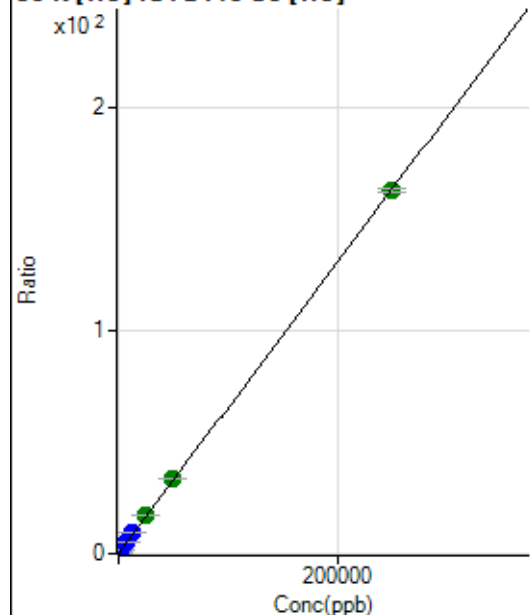
DL = 312.5

BEC = 1.135E+04

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	64688.16	0.1324	P	0.5
2	☐	500.000	526.225	227535.10	0.4746	P	0.4
3	☐	2500.000	2859.798	924628.71	1.9922	P	0.5
4	☐	6250.000	7108.593	2100636.72	4.7553	P	0.2
5	☐	12500.000	13960.736	3991373.92	9.2115	P	0.2
6	☐	25000.000	26547.261	7339356.50	17.3968	A	0.4
7	☐	50000.000	51777.572	14183890.77	33.8049	A	0.1
8	☐	250000.00	249391.60	72281009.95	162.3191	A	1.0

$$y = 6.5033\text{E-}004 * x + 0.1324$$

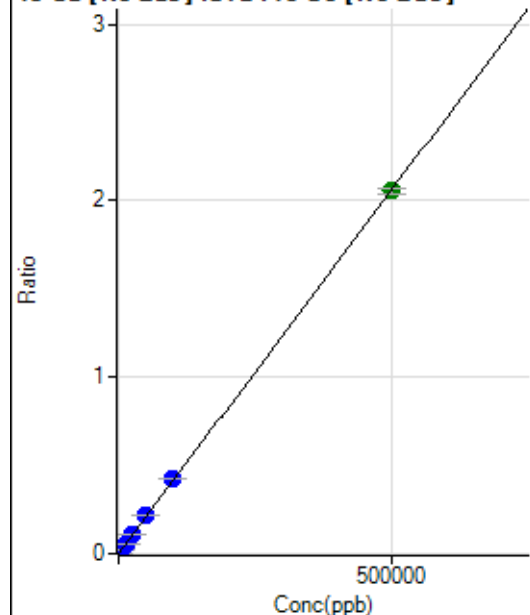
R = 1.0000

DL = 2.769

BEC = 203.5

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	341.68	0.0000	P	29.7
2	☐	500.000	488.556	16868.28	0.0021	P	0.7
3	☐	5000.000	5334.182	178986.51	0.0220	P	0.3
4	☐	12500.000	13544.369	432091.08	0.0558	P	1.6
5	☐	25000.000	26372.436	840049.60	0.1087	P	0.6
6	☐	50000.000	52778.096	1648642.82	0.2175	P	0.3
7	☐	100000.00	103184.94	3188632.34	0.4252	P	1.3
8	☐	500000.00	498987.14	15588832.81	2.0561	A	1.6

$$y = 4.1204\text{E-}006 * x + 4.1497\text{E-}005$$

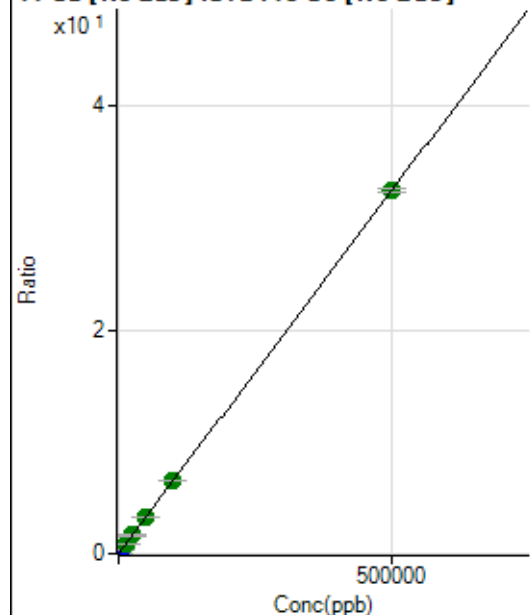
$$R = 1.0000$$

$$DL = 8.978$$

$$BEC = 10.07$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20004.41	0.0024	P	1.7
2	☐	500.000	488.011	279760.56	0.0341	P	0.4
3	☐	5000.000	5331.571	2829807.17	0.3482	P	0.7
4	☐	12500.000	12862.872	6472542.21	0.8365	A	0.8
5	☐	25000.000	25267.159	12679182.38	1.6409	A	1.6
6	☐	50000.000	50745.391	24959702.32	3.2930	A	0.3
7	☐	100000.00	99602.095	48453711.66	6.4610	A	0.2
8	☐	500000.00	499979.30	245838393.5	32.4231	A	1.1

$$y = 6.4844\text{E-}005 * x + 0.0024$$

$$R = 1.0000$$

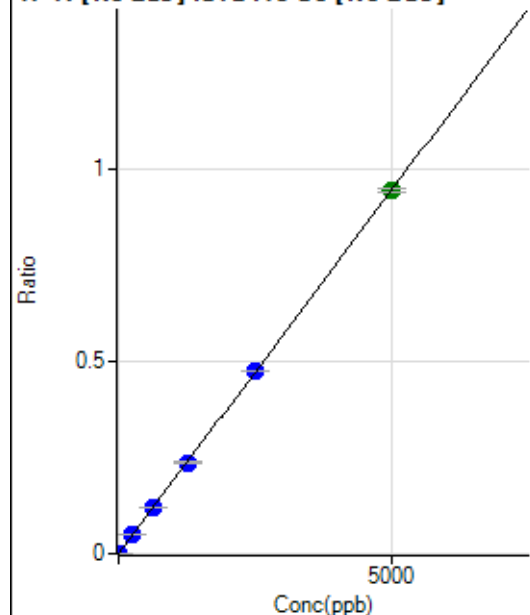
$$DL = 1.921$$

$$BEC = 37.47$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	230.56	0.0000	P	15.7
2	☐	5.000	4.512	7229.69	0.0009	P	3.6
3	☐	250.000	251.855	386970.93	0.0476	P	0.5
4	☐	625.000	641.512	937940.49	0.1212	P	1.0
5	☐	1250.000	1254.745	1832035.63	0.2371	P	1.1
6	☐	2500.000	2510.019	3594369.57	0.4742	P	0.5
7	☐	5000.000	4991.648	7072120.82	0.9430	A	1.0
8	☐			1283.43	0.0002	P	8.6

$$y = 1.8892E-004 * x + 2.8022E-005$$

$$R = 1.0000$$

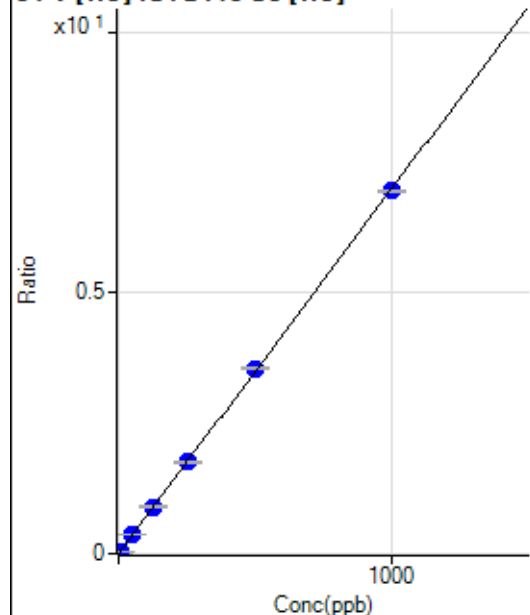
$$DL = 0.06999$$

$$BEC = 0.1483$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	16.67	0.0000	P	34.9
2	☐	5.000	4.698	15769.59	0.0329	P	1.0
3	☐	50.000	50.944	165386.60	0.3563	P	1.1
4	☐	125.000	128.965	398460.61	0.9020	P	0.4
5	☐	250.000	251.680	762728.32	1.7603	P	1.2
6	☐	500.000	507.953	1498796.02	3.5527	P	0.6
7	☐	1000.000	995.062	2919939.89	6.9595	P	0.7
8	☐			686.69	0.0015	P	11.9

$$y = 0.0070 * x + 3.4139E-005$$

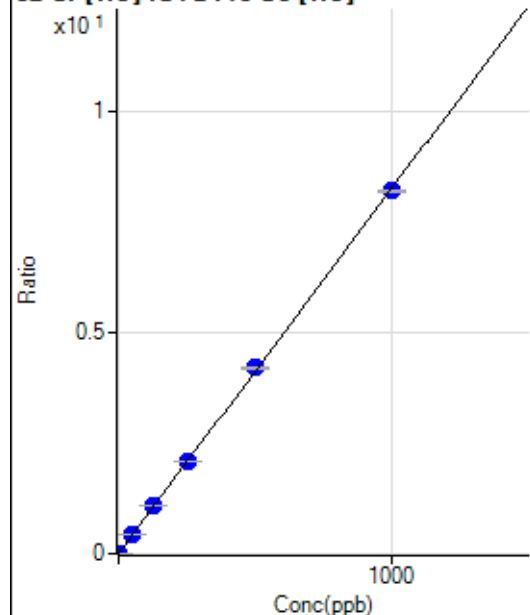
$$R = 0.9999$$

$$DL = 0.005117$$

$$BEC = 0.004881$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1333.40	0.0027	P	1.8
2	☐	2.000	1.889	8761.55	0.0183	P	2.1
3	☐	50.000	51.242	197051.10	0.4246	P	1.3
4	☐	125.000	129.855	473427.97	1.0717	P	0.5
5	☐	250.000	252.601	902191.30	2.0822	P	1.8
6	☐	500.000	508.833	1768305.88	4.1915	P	0.5
7	☐	1000.000	994.264	3435186.89	8.1877	P	0.8
8	☐			14510.57	0.0326	P	3.0

$$y = 0.0082 * x + 0.0027$$

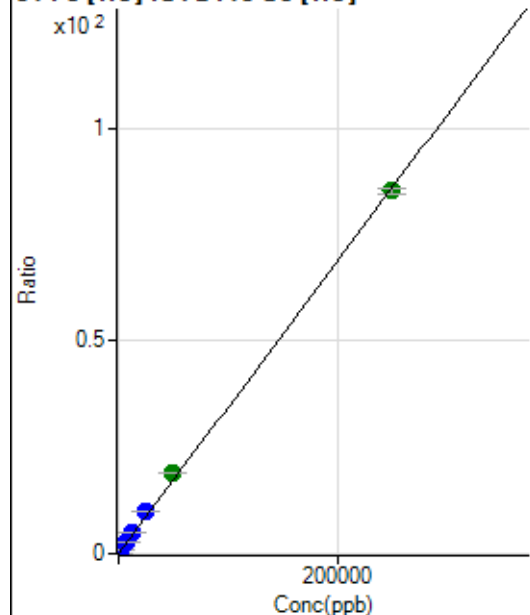
$$R = 0.9999$$

$$DL = 0.0181$$

$$BEC = 0.3314$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1842.02	0.0038	P	7.2
2	☐	50.000	51.977	10367.65	0.0216	P	3.3
3	☐	2500.000	2900.994	464194.37	1.0002	P	1.4
4	☐	6250.000	7326.668	1113309.55	2.5202	P	1.0
5	☐	12500.000	14272.397	2125705.61	4.9059	P	1.5
6	☐	25000.000	28584.182	4143470.56	9.8215	P	0.6
7	☐	50000.000	55288.775	7969249.54	18.9937	A	0.3
8	☐	250000.00	248464.28	38002275.94	85.3431	A	1.6

$$y = 3.4347E-004 * x + 0.0038$$

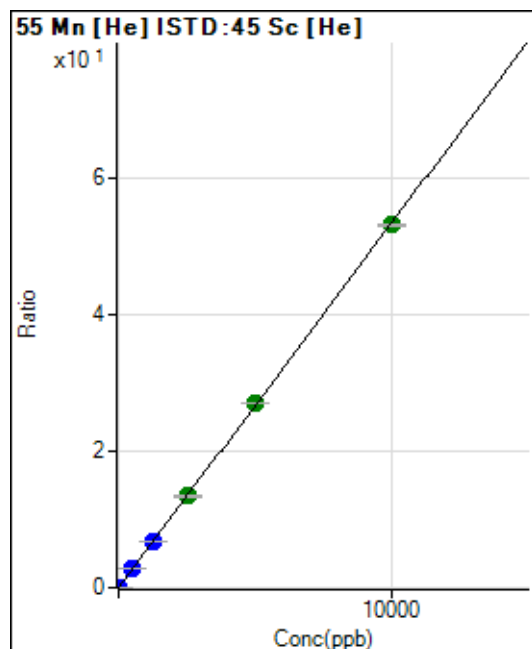
$$R = 0.9997$$

$$DL = 2.366$$

$$BEC = 10.98$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0003	P	11.6
2	☐	1.000	0.888	2440.23	0.0051	P	2.7
3	☐	500.000	506.999	1257447.81	2.7093	P	0.7
4	☐	1250.000	1276.590	3013226.66	6.8212	P	0.5
5	☐	2500.000	2519.287	5832630.54	13.4610	A	1.1
6	☐	5000.000	5076.677	11443445.94	27.1252	A	0.5
7	☐	10000.000	9953.166	22313401.61	53.1804	A	0.7
8	☐			20890.43	0.0469	P	1.6

$$y = 0.0053 * x + 3.4553E-004$$

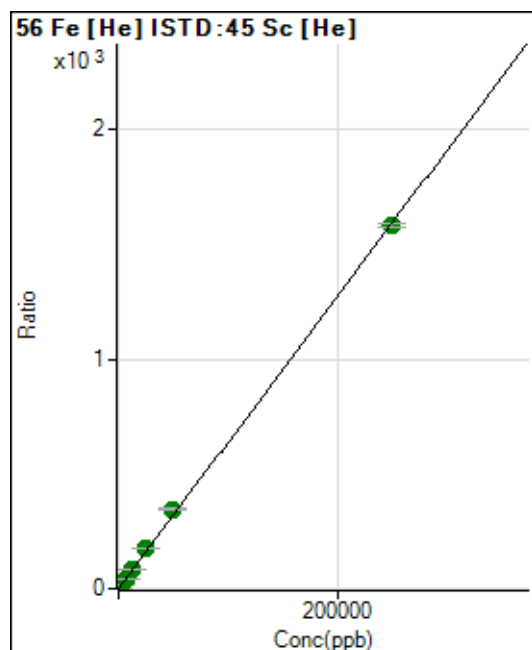
$$R = 1.0000$$

$$DL = 0.02253$$

$$BEC = 0.06467$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13671.37	0.0280	P	2.3
2	☐	50.000	51.901	171514.94	0.3578	P	2.0
3	☐	2500.000	2767.776	8175355.91	17.6147	A	1.6
4	☐	6250.000	7023.841	19727413.40	44.6582	A	0.7
5	☐	12500.000	13725.495	37801377.70	87.2413	A	1.5
6	☐	25000.000	27884.651	74760623.90	177.2102	A	0.9
7	☐	50000.000	54697.250	145831042.1	347.5804	A	0.7
8	☐	250000.00	248688.78	703671600.9	1,580.224	A	1.2

$$y = 0.0064 * x + 0.0280$$

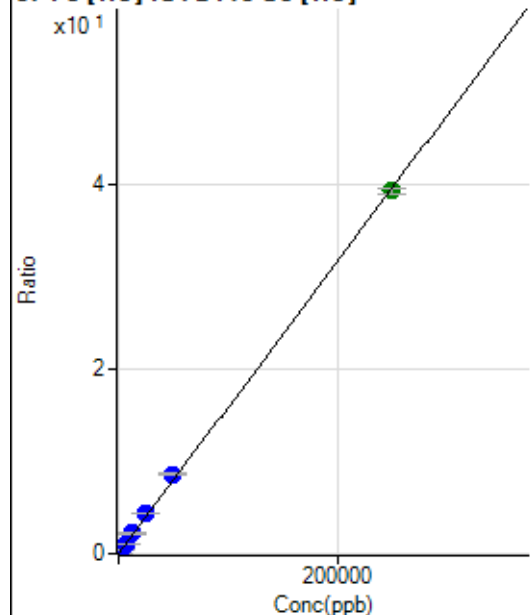
$$R = 0.9998$$

$$DL = 0.2986$$

$$BEC = 4.403$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	474.09	0.0010	P	14.2
2	☐	50.000	52.091	4406.30	0.0092	P	4.2
3	☐	2500.000	2821.932	207155.27	0.4463	P	1.0
4	☐	6250.000	7095.153	495080.60	1.1207	P	0.3
5	☐	12500.000	13869.485	948868.59	2.1899	P	1.5
6	☐	25000.000	27831.418	1853462.41	4.3934	P	0.8
7	☐	50000.000	54637.745	3618271.03	8.6240	P	0.9
8	☐	250000.00	248696.48	17477941.59	39.2508	A	1.7

$$y = 1.5782\text{E-}004 * x + 9.6969\text{E-}004$$

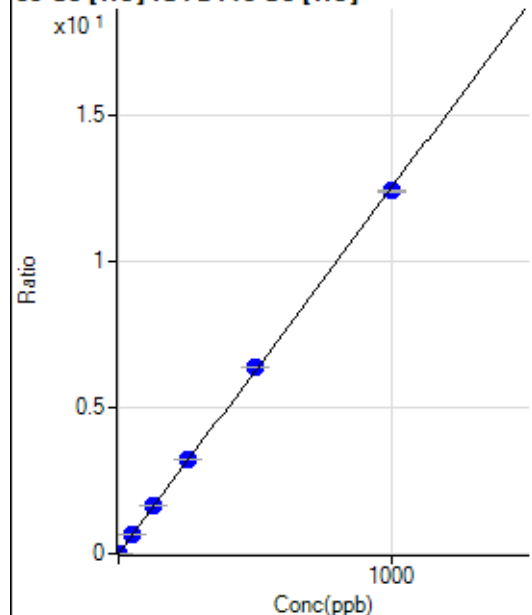
R = 0.9998

DL = 2.619

BEC = 6.144

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	81.11	0.0002	P	24.5
2	☐	1.000	0.976	5943.48	0.0124	P	0.5
3	☐	50.000	52.275	304018.01	0.6550	P	0.8
4	☐	125.000	132.113	731170.06	1.6552	P	0.4
5	☐	250.000	256.975	1394963.85	3.2194	P	1.0
6	☐	500.000	510.974	2700562.42	6.4013	P	0.5
7	☐	1000.000	991.766	5212960.58	12.4244	P	0.4
8	☐			9822.26	0.0221	P	2.3

$$y = 0.0125 * x + 1.6609\text{E-}004$$

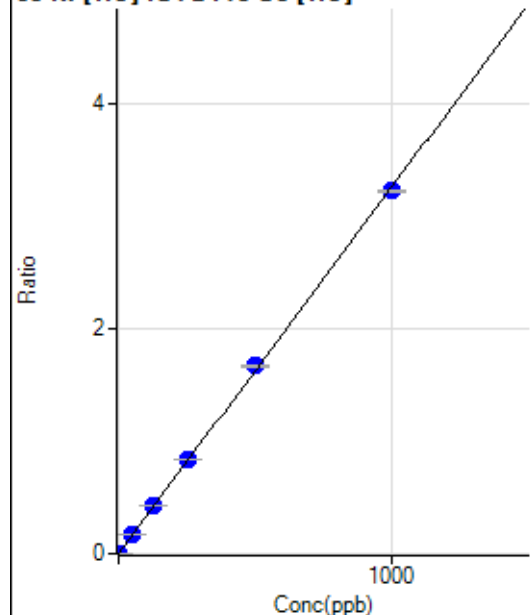
R = 0.9999

DL = 0.009765

BEC = 0.01326

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	88.89	0.0002	P	6.0
2	☐	1.000	1.005	1655.66	0.0035	P	4.0
3	☐	50.000	52.315	79120.50	0.1705	P	1.2
4	☐	125.000	132.119	190060.50	0.4302	P	0.4
5	☐	250.000	257.095	362696.41	0.8371	P	1.3
6	☐	500.000	513.266	704929.45	1.6709	P	0.7
7	☐	1000.000	990.588	1352990.48	3.2247	P	0.3
8	☐			4260.66	0.0096	P	3.5

$$y = 0.0033 * x + 1.8191E-004$$

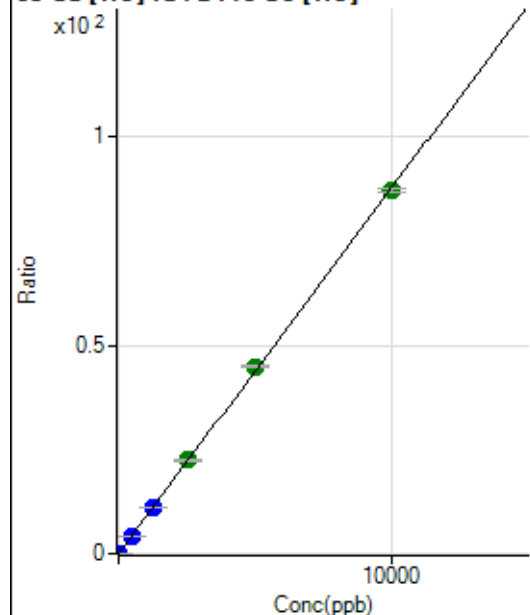
R = 0.9998

DL = 0.009995

BEC = 0.05588

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1211.17	0.0025	P	4.0
2	☐	2.000	2.273	10747.35	0.0224	P	2.4
3	☐	500.000	496.188	2021161.34	4.3547	P	1.2
4	☐	1250.000	1246.907	4832511.07	10.9396	P	0.3
5	☐	2500.000	2561.447	9736269.85	22.4700	A	0.9
6	☐	5000.000	5121.830	18954233.47	44.9281	A	0.5
7	☐	10000.000	9924.300	36522677.24	87.0525	A	1.1
8	☐			16053.31	0.0360	P	0.9

$$y = 0.0088 * x + 0.0025$$

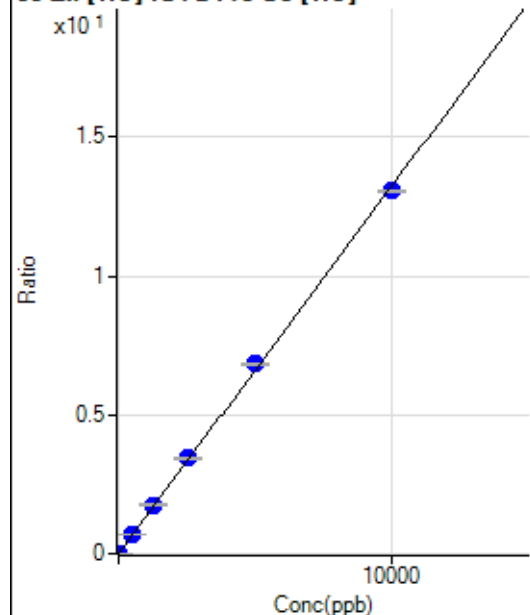
R = 0.9999

DL = 0.03381

BEC = 0.2826

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	272.23	0.0006	P	17.3
2	☐	2.000	2.147	1628.99	0.0034	P	2.4
3	☐	500.000	523.040	321363.58	0.6924	P	1.7
4	☐	1250.000	1334.278	779897.17	1.7655	P	0.7
5	☐	2500.000	2597.205	1488826.59	3.4360	P	1.3
6	☐	5000.000	5168.659	2884579.26	6.8375	P	0.5
7	☐	10000.000	9879.682	5483230.13	13.0690	P	0.7
8	☐			23681.46	0.0532	P	1.1

$$y = 0.0013 * x + 5.5736E-004$$

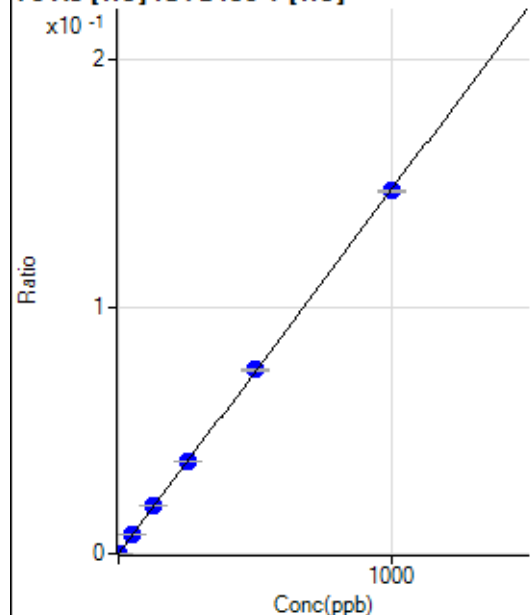
$$R = 0.9997$$

$$DL = 0.219$$

$$BEC = 0.4214$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.17	0.0000	P	69.3
2	☐	1.000	0.885	374.08	0.0001	P	0.8
3	☐	50.000	51.050	20929.86	0.0075	P	0.4
4	☐	125.000	130.006	51236.51	0.0192	P	0.7
5	☐	250.000	252.581	98761.64	0.0373	P	0.7
6	☐	500.000	504.516	193897.35	0.0745	P	0.3
7	☐	1000.000	996.419	378890.56	0.1471	P	0.2
8	☐			200.00	0.0001	P	7.4

$$y = 1.4761E-004 * x + 2.1548E-006$$

$$R = 1.0000$$

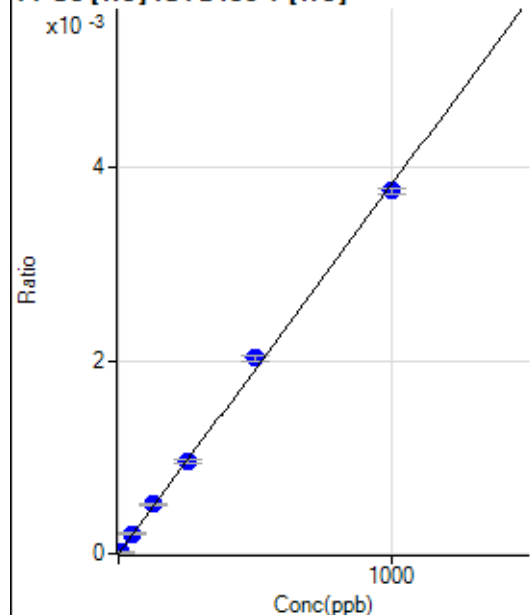
$$DL = 0.03036$$

$$BEC = 0.0146$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	2.984	32.22	0.0000	P	41.3
3	☐	50.000	53.246	565.57	0.0002	P	7.0
4	☐	125.000	134.031	1368.97	0.0005	P	1.7
5	☐	250.000	250.897	2542.47	0.0010	P	3.0
6	☐	500.000	529.824	5277.69	0.0020	P	2.2
7	☐	1000.000	983.583	9693.33	0.0038	P	1.4
8	☐			5.56	0.0000	P	173.

$$y = 3.8257\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9993$$

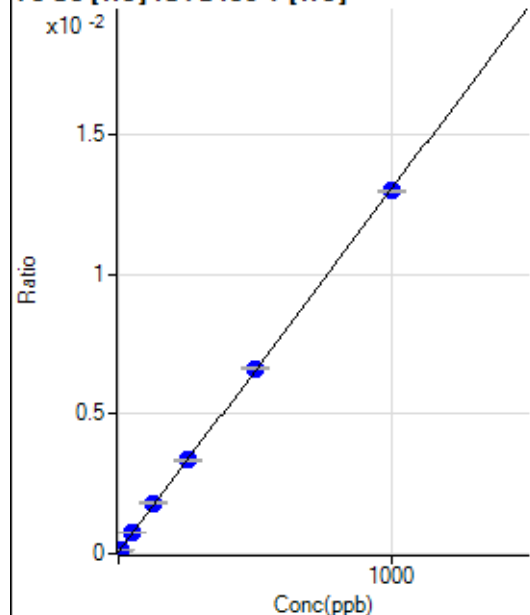
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.22	0.0001	P	1.4
2	☐	5.000	5.494	370.38	0.0001	P	5.1
3	☐	50.000	52.577	2062.51	0.0007	P	0.6
4	☐	125.000	134.915	4837.25	0.0018	P	2.1
5	☐	250.000	253.415	8874.35	0.0034	P	2.5
6	☐	500.000	505.859	17255.95	0.0066	P	0.8
7	☐	1000.000	994.846	33429.07	0.0130	P	0.6
8	☐			155.56	0.0001	P	11.7

$$y = 1.2984\text{E-}005 * x + 6.0152\text{E-}005$$

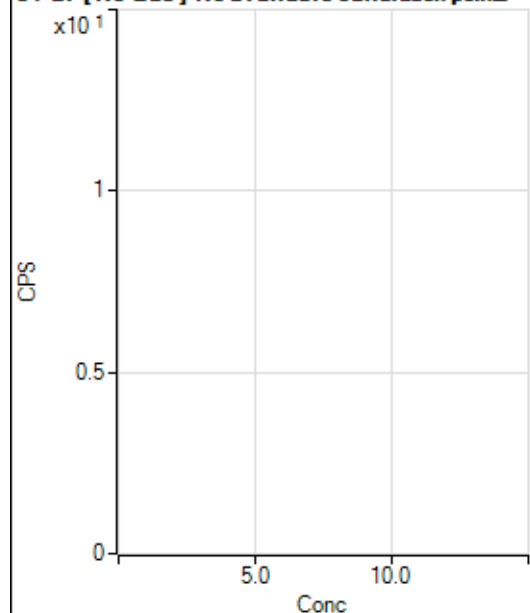
$$R = 0.9999$$

$$DL = 0.1943$$

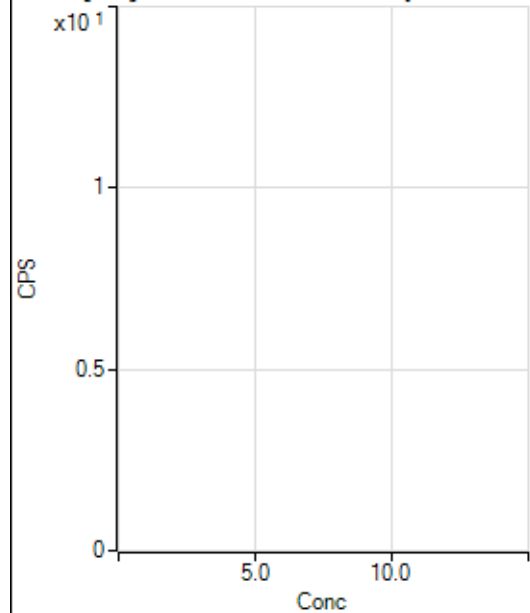
$$BEC = 4.633$$

Weight: <None>

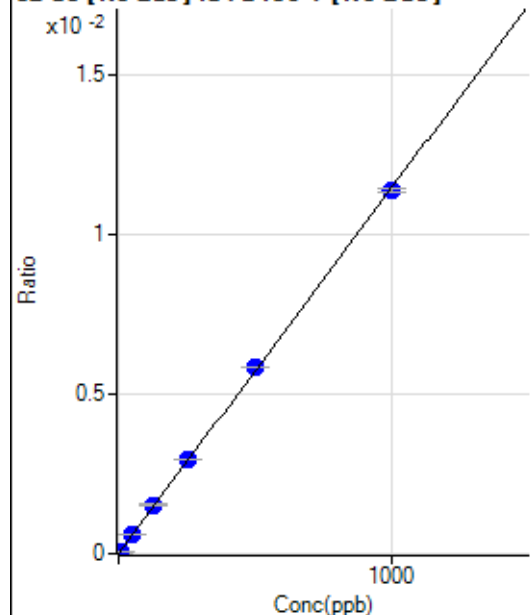
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			29372.24		P	3.9
2	☐			28887.83		P	1.1
3	☐			28111.35		P	1.6
4	☐			27226.24		P	1.6
5	☐			27922.03		P	2.3
6	☐			26808.87		P	4.4
7	☐			26967.40		P	3.5
8	☐			26716.95		P	0.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			103.44		P	45.7
2	☐			70.07		P	24.7
3	☐			73.41		P	51.6
4	☐			66.73		P	22.9
5	☐			73.41		P	15.7
6	☐			96.76		P	26.0
7	☐			66.73		P	31.2
8	☐			80.08		P	57.3

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	90.50	0.0000	P	44.9
2	☐	5.000	4.965	993.04	0.0001	P	6.9
3	☐	50.000	52.166	9440.63	0.0006	P	1.7
4	☐	125.000	133.454	23227.33	0.0015	P	1.4
5	☐	250.000	257.215	45040.62	0.0029	P	1.1
6	☐	500.000	509.618	88372.00	0.0058	P	0.8
7	☐	1000.000	992.222	170524.57	0.0114	P	1.1
8	☐			143.26	0.0000	P	69.2

$$y = 1.1445E-005 * x + 5.7113E-006$$

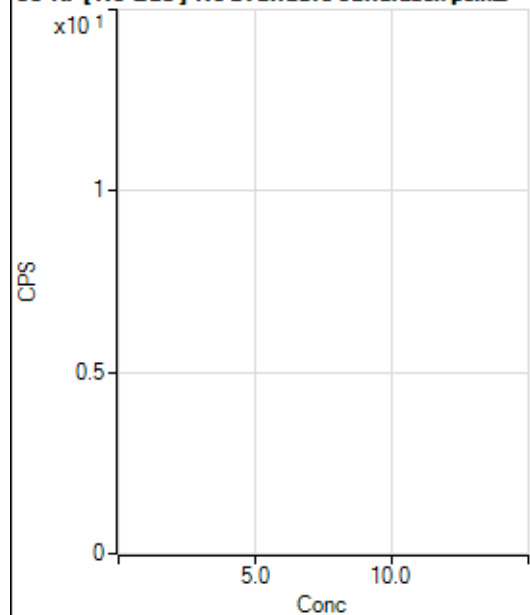
R = 0.9999

DL = 0.6727

BEC = 0.499

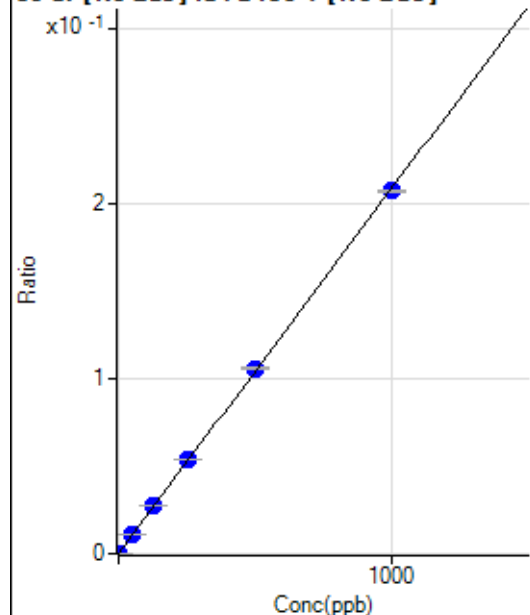
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			681.13		P	2.4
2	☐			670.02		P	8.2
3	☐			788.92		P	11.9
4	☐			687.80		P	8.9
5	☐			691.13		P	6.6
6	☐			706.70		P	6.2
7	☐			652.24		P	4.2
8	☐			718.91		P	11.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1183.41	0.0001	P	10.7
2	☐	1.000	1.008	4528.61	0.0003	P	1.5
3	☐	50.000	51.206	168682.50	0.0108	P	1.4
4	☐	125.000	129.903	412153.89	0.0272	P	1.5
5	☐	250.000	256.345	818672.49	0.0536	P	0.8
6	☐	500.000	507.708	1606086.17	0.1061	P	0.4
7	☐	1000.000	993.887	3116538.02	0.2076	P	0.5
8	☐			18242.51	0.0012	P	2.8

$$y = 2.0883\text{E-}004 * x + 7.4849\text{E-}005$$

$$R = 0.9999$$

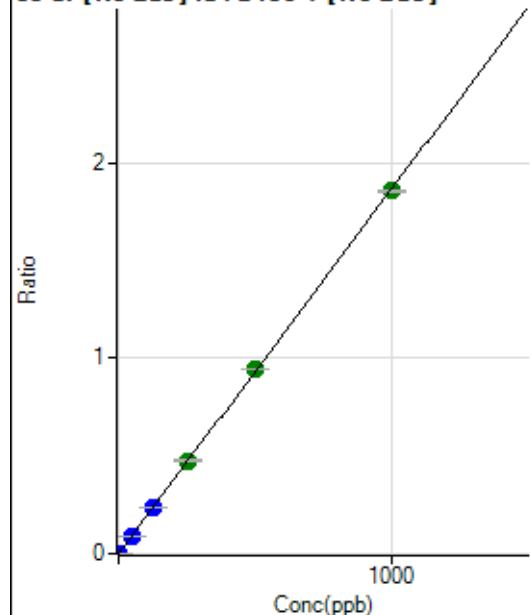
$$DL = 0.1153$$

$$BEC = 0.3584$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	558.36	0.0000	P	4.9
2	☐	1.000	0.924	27936.03	0.0018	P	0.6
3	☐	50.000	49.764	1454805.12	0.0929	P	0.7
4	☐	125.000	125.079	3536239.57	0.2334	P	0.5
5	☐	250.000	254.872	7261898.42	0.4755	A	0.8
6	☐	500.000	506.689	14309751.36	0.9453	A	0.4
7	☐	1000.000	995.440	27876175.28	1.8572	A	0.4
8	☐			149087.76	0.0101	P	1.6

$$y = 0.0019 * x + 3.5339\text{E-}005$$

$$R = 1.0000$$

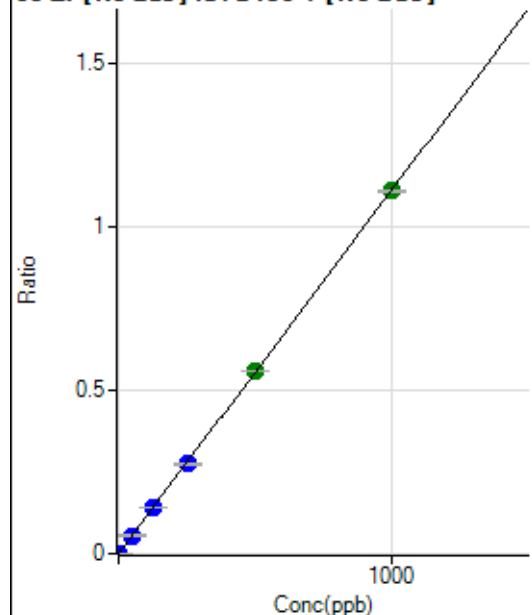
$$DL = 0.002803$$

$$BEC = 0.01894$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	861.16	0.0001	P	12.0
2	☐	1.000	0.937	17419.23	0.0011	P	3.1
3	☐	50.000	50.230	876545.38	0.0560	P	1.2
4	☐	125.000	126.247	2129914.37	0.1406	P	0.7
5	☐	250.000	246.836	4196485.81	0.2748	P	0.6
6	☐	500.000	503.564	8485302.62	0.5606	A	0.3
7	☐	1000.000	998.842	16688231.45	1.1118	A	0.6
8	☐			5573.46	0.0004	P	5.7

$$y = 0.0011 * x + 5.4437E-005$$

$$R = 1.0000$$

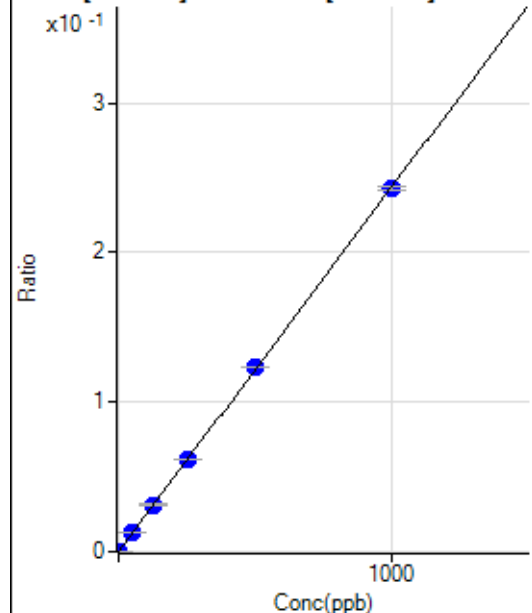
$$DL = 0.01765$$

$$BEC = 0.04891$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.34	0.0000	P	36.9
2	☐	1.000	0.953	3839.51	0.0002	P	4.4
3	☐	50.000	50.800	193833.66	0.0124	P	2.5
4	☐	125.000	129.252	476920.88	0.0315	P	0.5
5	☐	250.000	254.057	944649.63	0.0619	P	0.7
6	☐	500.000	505.252	1862026.65	0.1230	P	0.0
7	☐	1000.000	995.788	3638643.00	0.2424	P	1.1
8	☐			1225.09	0.0001	P	4.3

$$y = 2.4344E-004 * x + 9.9843E-006$$

$$R = 1.0000$$

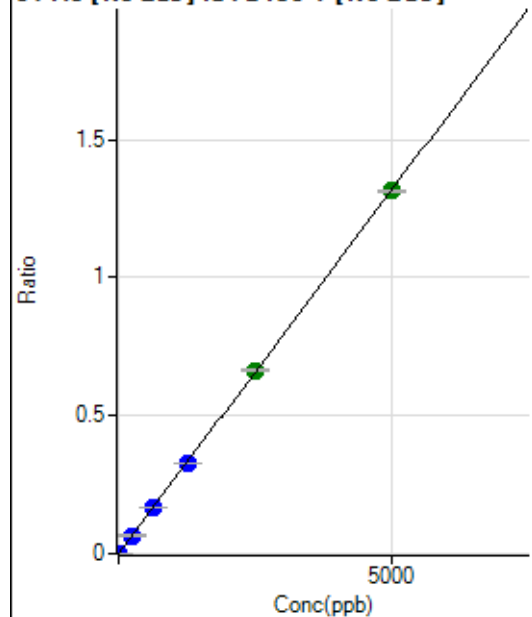
$$DL = 0.0454$$

$$BEC = 0.04101$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	483.36	0.0000	P	20.1
2	☐	5.000	4.621	19800.22	0.0012	P	1.3
3	☐	250.000	249.767	1030588.26	0.0658	P	1.2
4	☐	625.000	632.710	2524798.69	0.1666	P	0.7
5	☐	1250.000	1240.139	4987285.70	0.3266	P	0.9
6	☐	2500.000	2521.197	10049497.71	0.6639	A	0.8
7	☐	5000.000	4990.915	19725962.94	1.3142	A	0.5
8	☐			6165.38	0.0004	P	3.7

$$y = 2.6332\text{E-}004 * x + 3.0610\text{E-}005$$

$$R = 1.0000$$

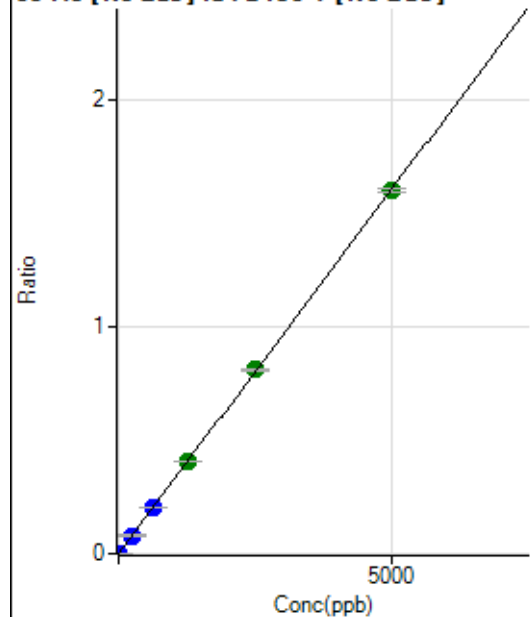
$$DL = 0.07003$$

$$BEC = 0.1162$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	266.67	0.0000	P	22.1
2	☐	5.000	4.702	24218.22	0.0015	P	2.9
3	☐	250.000	249.327	1253368.49	0.0800	P	1.8
4	☐	625.000	629.307	3060053.06	0.2020	P	0.6
5	☐	1250.000	1270.421	6225930.35	0.4077	A	0.8
6	☐	2500.000	2525.402	12267586.30	0.8104	A	1.2
7	☐	5000.000	4981.689	23994340.47	1.5986	A	1.0
8	☐			7154.78	0.0005	P	5.4

$$y = 3.2090\text{E-}004 * x + 1.6916\text{E-}005$$

$$R = 1.0000$$

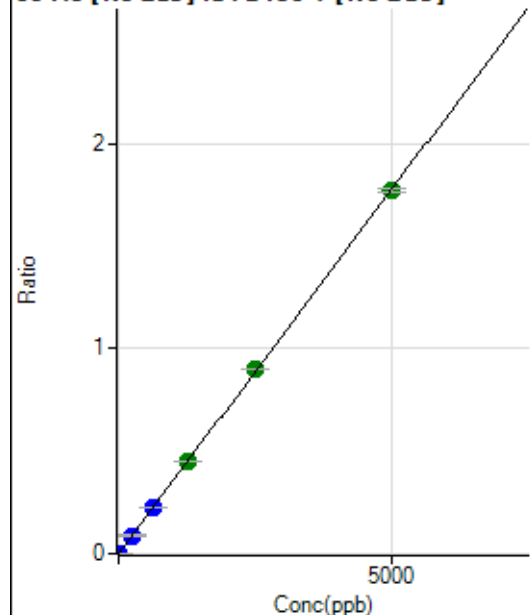
$$DL = 0.03494$$

$$BEC = 0.05271$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	413.91	0.0000	P	1.8
2	☐	5.000	4.649	26605.86	0.0017	P	3.8
3	☐	250.000	250.600	1392866.05	0.0889	P	2.2
4	☐	625.000	632.272	3399194.87	0.2243	P	0.8
5	☐	1250.000	1267.116	6865621.77	0.4496	A	0.9
6	☐	2500.000	2524.103	13556074.78	0.8955	A	0.1
7	☐	5000.000	4982.731	26533561.70	1.7678	A	1.1
8	☐			14410.40	0.0010	P	1.9

$$y = 3.5479\text{E-}004 * x + 2.6194\text{E-}005$$

$$R = 1.0000$$

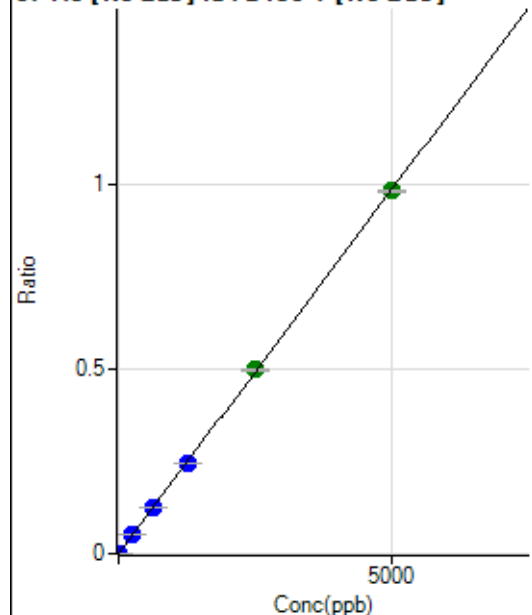
$$DL = 0.00393$$

$$BEC = 0.07383$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	219.45	0.0000	P	6.4
2	☐	5.000	4.645	14780.23	0.0009	P	0.3
3	☐	250.000	253.009	782703.14	0.0500	P	1.5
4	☐	625.000	640.268	1915821.14	0.1264	P	0.5
5	☐	1250.000	1242.539	3747071.40	0.2454	P	0.6
6	☐	2500.000	2526.123	7550740.62	0.4988	A	1.0
7	☐	5000.000	4986.745	14780355.54	0.9847	A	0.6
8	☐			4525.84	0.0003	P	5.9

$$y = 1.9746\text{E-}004 * x + 1.3881\text{E-}005$$

$$R = 1.0000$$

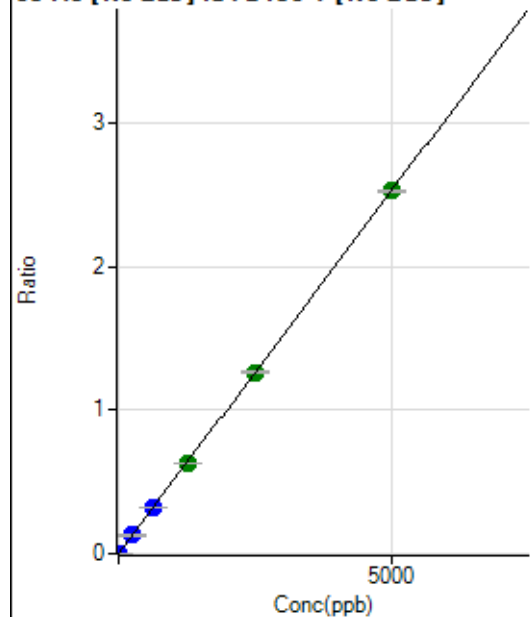
$$DL = 0.01358$$

$$BEC = 0.0703$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	400.02	0.0000	P	12.9
2	☐	5.000	4.658	37736.63	0.0024	P	2.3
3	☐	250.000	252.047	1993930.21	0.1273	P	1.6
4	☐	625.000	635.137	4859908.53	0.3208	P	1.2
5	☐	1250.000	1249.309	9634903.77	0.6309	A	0.7
6	☐	2500.000	2500.586	19114841.75	1.2628	A	1.0
7	☐	5000.000	4998.511	37887726.19	2.5242	A	0.8
8	☐			10278.96	0.0007	P	2.9

$$y = 5.0499\text{E-}004 * x + 2.5346\text{E-}005$$

$$R = 1.0000$$

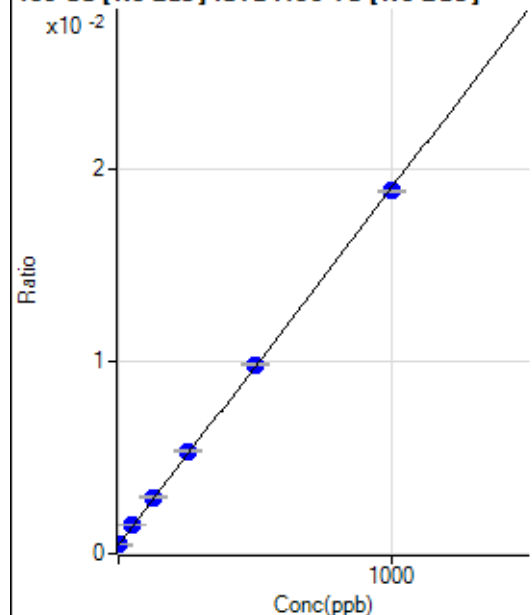
$$DL = 0.01935$$

$$BEC = 0.05019$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6412.72	0.0005	P	5.5
2	☐	1.000	0.715	6621.15	0.0005	P	3.8
3	☐	50.000	54.471	20976.99	0.0015	P	0.3
4	☐	125.000	134.279	41505.70	0.0029	P	1.2
5	☐	250.000	263.649	76419.58	0.0053	P	1.0
6	☐	500.000	505.897	142579.46	0.0098	P	0.8
7	☐	1000.000	992.256	272423.22	0.0188	P	0.9
8	☐			6412.71	0.0005	P	3.5

$$y = 1.8520\text{E-}005 * x + 4.5126\text{E-}004$$

$$R = 0.9999$$

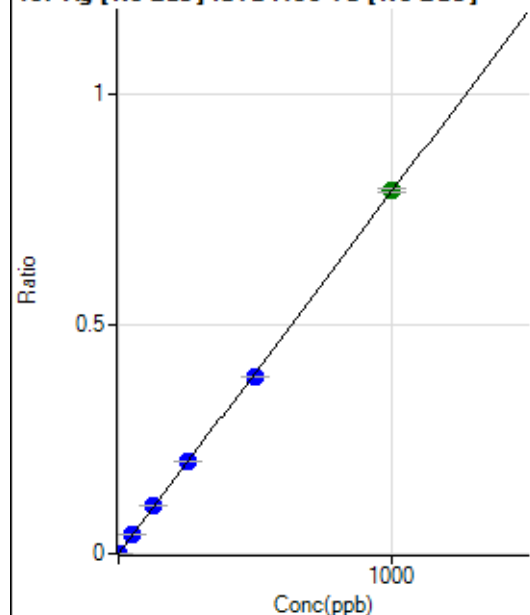
$$DL = 4.045$$

$$BEC = 24.37$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	244.45	0.0000	P	7.1
2	☐	1.000	0.998	11449.34	0.0008	P	1.5
3	☐	50.000	53.566	606040.58	0.0422	P	0.4
4	☐	125.000	132.655	1475249.40	0.1044	P	1.9
5	☐	250.000	256.018	2887517.12	0.2015	P	0.6
6	☐	500.000	488.600	5584237.80	0.3846	P	0.2
7	☐	1000.000	1003.060	11424695.48	0.7896	A	1.0
8	☐			5768.01	0.0004	P	4.6

$$y = 7.8714\text{E-}004 * x + 1.7200\text{E-}005$$

$$R = 0.9999$$

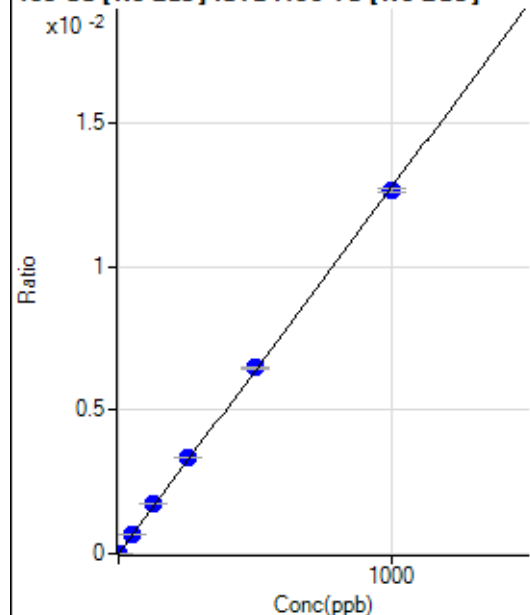
$$DL = 0.00463$$

$$BEC = 0.02185$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	17.6
2	☐	1.000	1.405	269.45	0.0000	P	5.3
3	☐	50.000	53.679	9852.12	0.0007	P	2.3
4	☐	125.000	136.333	24581.04	0.0017	P	1.7
5	☐	250.000	263.278	48131.10	0.0034	P	0.4
6	☐	500.000	508.355	94164.41	0.0065	P	0.9
7	☐	1000.000	990.902	182910.19	0.0126	P	1.0
8	☐			202.78	0.0000	P	11.1

$$y = 1.2756\text{E-}005 * x + 9.7764\text{E-}007$$

$$R = 0.9998$$

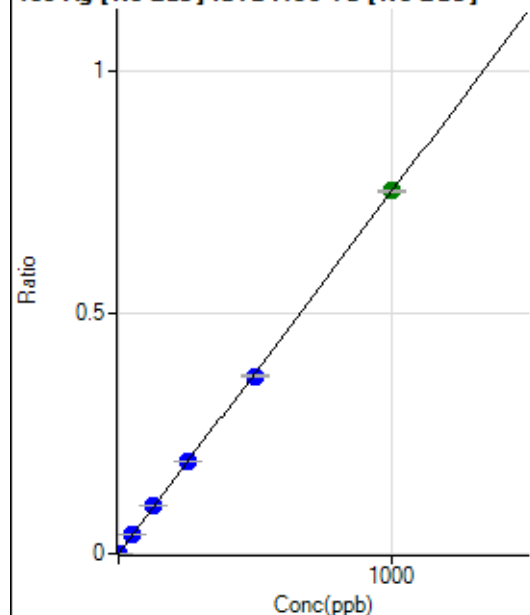
$$DL = 0.04049$$

$$BEC = 0.07664$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	144.45	0.0000	P	8.9
2	☐	1.000	1.024	11112.95	0.0008	P	0.7
3	☐	50.000	53.412	576507.94	0.0401	P	0.3
4	☐	125.000	131.264	1392887.93	0.0986	P	1.1
5	☐	250.000	254.177	2735271.54	0.1909	P	0.6
6	☐	500.000	491.083	5355310.40	0.3688	P	1.3
7	☐	1000.000	1002.461	10894441.39	0.7529	A	0.7
8	☐			5317.80	0.0004	P	3.3

$$y = 7.5107\text{E-}004 * x + 1.0164\text{E-}005$$

$$R = 0.9999$$

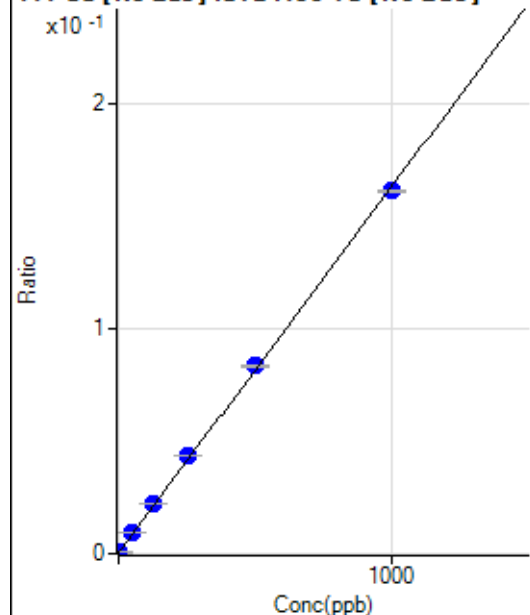
$$DL = 0.003611$$

$$BEC = 0.01353$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4504.18	0.0003	P	5.5
2	☐	1.000	1.239	7393.76	0.0005	P	4.3
3	☐	50.000	54.465	132034.01	0.0092	P	0.6
4	☐	125.000	135.385	316030.64	0.0224	P	2.2
5	☐	250.000	264.170	621131.47	0.0434	P	0.4
6	☐	500.000	511.776	1215105.93	0.0837	P	0.7
7	☐	1000.000	989.048	2336001.86	0.1614	P	0.7
8	☐			5327.55	0.0004	P	4.1

$$y = 1.6291\text{E-}004 * x + 3.1696\text{E-}004$$

$$R = 0.9998$$

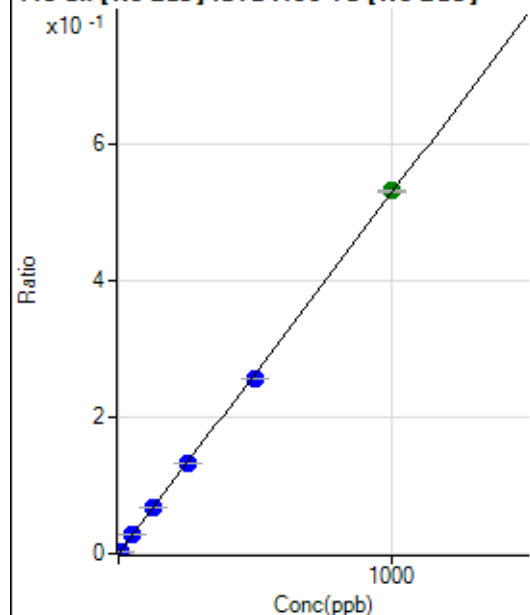
$$DL = 0.3222$$

$$BEC = 1.946$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	513.91	0.0000	P	17.2
2	☐	5.000	4.753	36291.71	0.0025	P	1.9
3	☐	50.000	51.048	387851.51	0.0270	P	1.1
4	☐	125.000	127.946	954998.08	0.0676	P	1.9
5	☐	250.000	249.186	1885992.58	0.1316	P	0.8
6	☐	500.000	486.072	3727566.53	0.2567	P	0.4
7	☐	1000.000	1006.748	7693758.42	0.5317	A	0.4
8	☐			3870.07	0.0003	P	3.1

$$y = 5.2811\text{E-}004 * x + 3.6133\text{E-}005$$

$$R = 0.9998$$

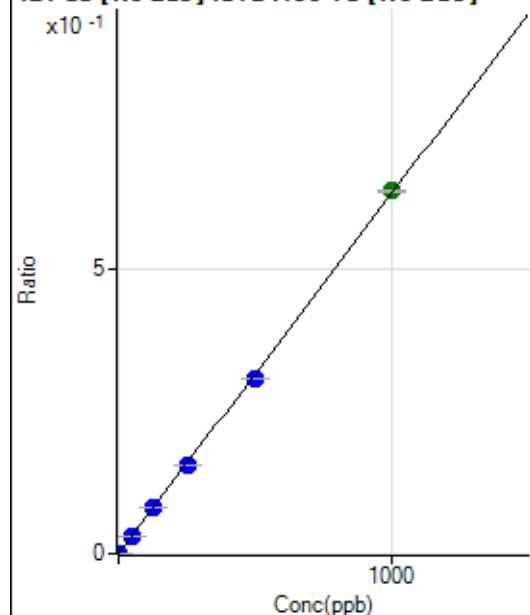
$$DL = 0.03529$$

$$BEC = 0.06842$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0000	P	18.6
2	☐	2.000	1.814	16468.41	0.0012	P	3.8
3	☐	50.000	50.382	458069.79	0.0319	P	0.9
4	☐	125.000	127.412	1138792.86	0.0806	P	1.7
5	☐	250.000	246.394	2233503.44	0.1559	P	0.1
6	☐	500.000	484.722	4452579.40	0.3067	P	0.4
7	☐	1000.000	1008.220	9229665.57	0.6379	A	0.5
8	☐			7088.07	0.0005	P	1.9

$$y = 6.3266\text{E-}004 * x + 8.2058\text{E-}006$$

$$R = 0.9998$$

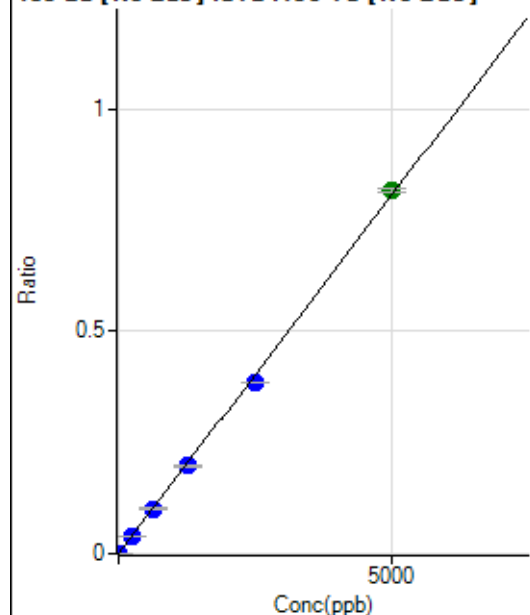
$$DL = 0.007219$$

$$BEC = 0.01297$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	29.9
2	☐	10.000	9.451	21800.95	0.0015	P	2.5
3	☐	250.000	248.205	575026.12	0.0400	P	0.8
4	☐	625.000	626.986	1428045.90	0.1011	P	1.6
5	☐	1250.000	1223.730	2826831.62	0.1973	P	0.5
6	☐	2500.000	2385.959	5585314.10	0.3847	P	0.5
7	☐	5000.000	5063.430	11812278.56	0.8164	A	1.2
8	☐			19388.96	0.0014	P	3.7

$$y = 1.6123\text{E-}004 * x + 5.2829\text{E-}006$$

$$R = 0.9996$$

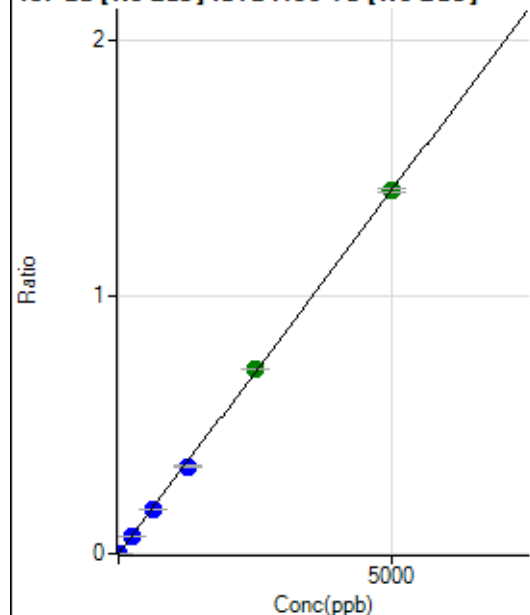
$$DL = 0.02941$$

$$BEC = 0.03277$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	127.78	0.0000	P	16.7
2	☐	10.000	9.230	37289.52	0.0026	P	1.7
3	☐	250.000	244.233	991063.40	0.0690	P	0.4
4	☐	625.000	614.306	2450837.12	0.1735	P	1.3
5	☐	1250.000	1199.967	4855191.95	0.3389	P	0.9
6	☐	2500.000	2534.418	10391568.55	0.7157	A	0.2
7	☐	5000.000	4996.926	20418012.61	1.4111	A	1.2
8	☐			33585.48	0.0024	P	1.2

$$y = 2.8240\text{E-}004 * x + 8.9929\text{E-}006$$

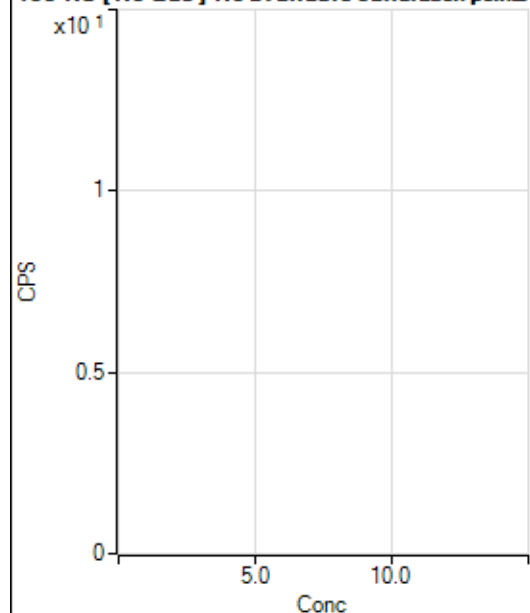
$$R = 0.9999$$

$$DL = 0.01592$$

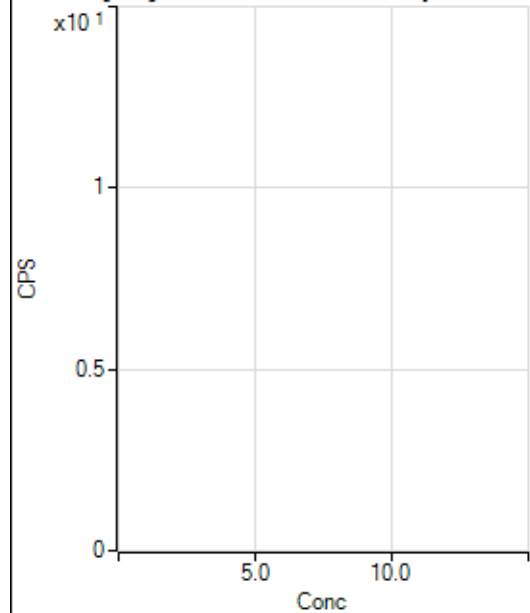
$$BEC = 0.03184$$

Weight: <None>

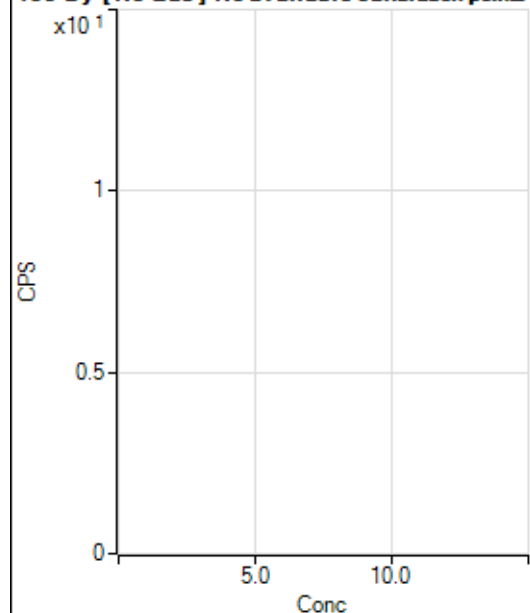
Min Conc: 0

150 Nd [No Gas] No available calibration points

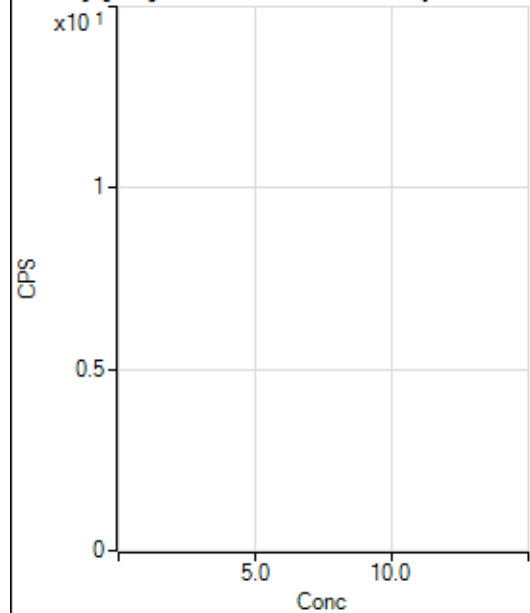
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.
2	☐			11.11		P	34.6
3	☐			75.56		P	36.7
4	☐			162.22		P	39.1
5	☐			277.79		P	19.4
6	☐			573.36		P	13.4
7	☐			977.83		P	6.8
8	☐			44.45		P	56.8

150 Nd [He] No available calibration points

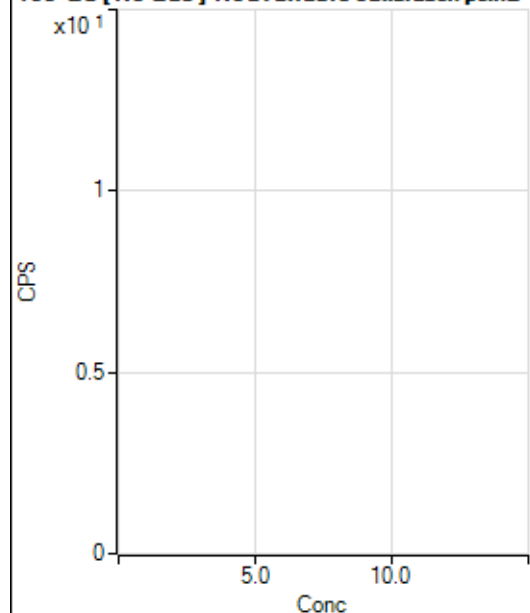
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			4.44		P	43.4
3	☐			15.55		P	24.8
4	☐			22.22		P	31.2
5	☐			53.33		P	12.5
6	☐			88.89		P	17.7
7	☐			145.56		P	19.5
8	☐			11.11		P	45.8

156 Dy [No Gas] No available calibration points

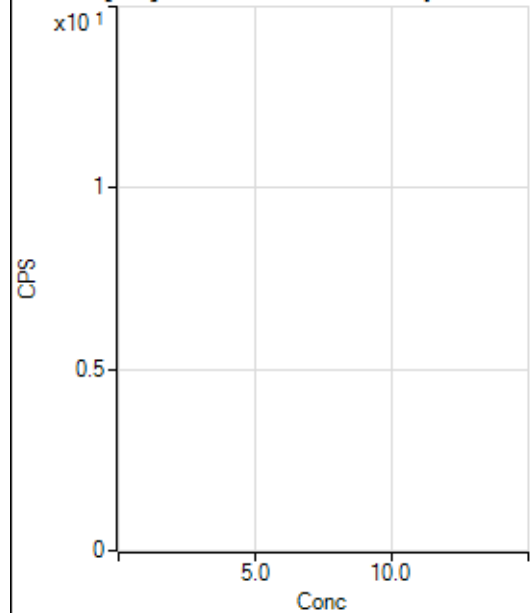
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	99.0
2	☐			13.89		P	69.3
3	☐			44.44		P	28.6
4	☐			69.44		P	13.9
5	☐			141.67		P	36.7
6	☐			261.12		P	14.7
7	☐			352.79		P	11.9
8	☐			686.15		P	9.3

156 Dy [He] No available calibration points

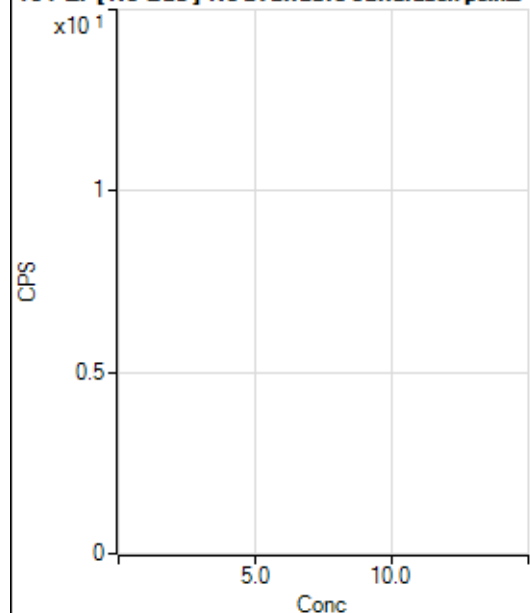
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	89.2
2	☐			6.67		P	100.
3	☐			14.44		P	58.1
4	☐			45.56		P	11.2
5	☐			107.78		P	7.8
6	☐			120.00		P	14.7
7	☐			237.78		P	16.4
8	☐			406.68		P	11.9

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

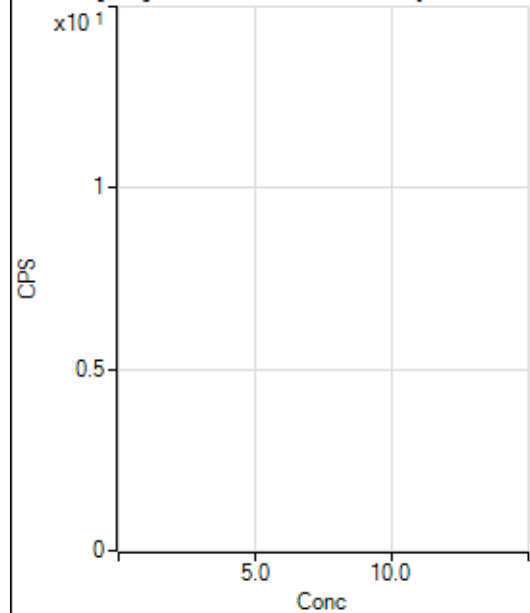
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			155.56		P	8.2
2	☐			130.56		P	41.0
3	☐			122.22		P	3.9
4	☐			150.01		P	20.0
5	☐			172.23		P	7.4
6	☐			227.79		P	40.3
7	☐			300.01		P	19.2
8	☐			736.15		P	3.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			161.12		P	4.3
2	☐			161.11		P	8.6
3	☐			174.45		P	21.3
4	☐			167.78		P	18.5
5	☐			176.67		P	12.4
6	☐			232.22		P	7.2
7	☐			271.11		P	8.7
8	☐			603.35		P	10.4

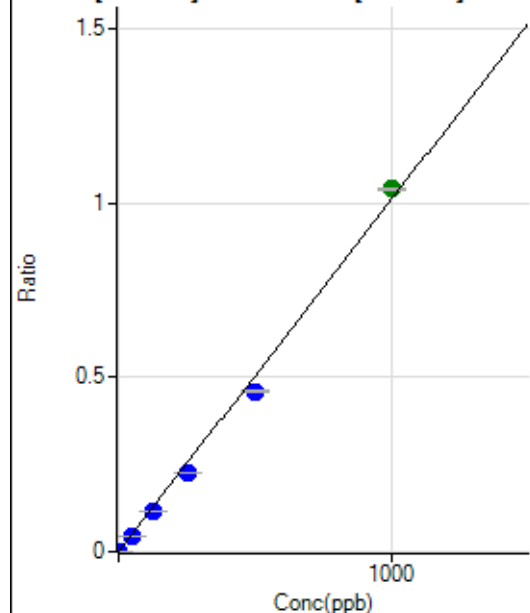
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			83.34		P	30.0
2	☐			52.78		P	39.7
3	☐			41.67		P	52.9
4	☐			83.33		P	87.2
5	☐			86.11		P	14.8
6	☐			94.45		P	62.6
7	☐			144.45		P	14.5
8	☐			113.89		P	27.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	18.2
2	☐			26.67		P	45.1
3	☐			28.89		P	35.2
4	☐			43.33		P	20.3
5	☐			32.22		P	26.0
6	☐			61.11		P	16.7
7	☐			74.44		P	15.7
8	☐			83.34		P	26.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	35.5
2	☐	1.000	0.849	8058.22	0.0009	P	0.9
3	☐	50.000	45.798	425384.27	0.0463	P	2.3
4	☐	125.000	115.428	1059448.57	0.1168	P	0.4
5	☐	250.000	224.732	2112037.66	0.2274	P	0.9
6	☐	500.000	455.181	4214551.61	0.4606	P	1.0
7	☐	1000.000	1030.134	9398416.53	1.0423	A	0.7
8	☐			1230.65	0.0002	P	3.4

$$y = 0.0010 * x + 9.1397E-006$$

$$R = 0.9982$$

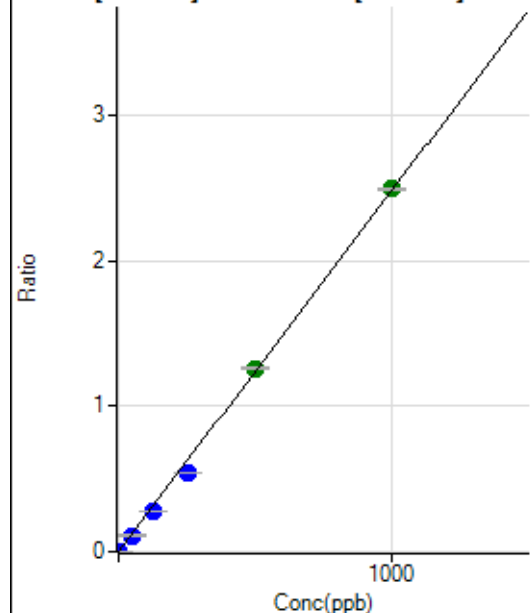
$$DL = 0.009622$$

$$BEC = 0.009033$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.89	0.0000	P	28.3
2	☐	1.000	0.822	19083.59	0.0021	P	2.0
3	☐	50.000	44.714	1017803.32	0.1109	P	2.7
4	☐	125.000	113.009	2542076.14	0.2803	P	0.5
5	☐	250.000	218.298	5028272.73	0.5414	P	0.7
6	☐	500.000	507.625	11520524.13	1.2589	A	0.6
7	☐	1000.000	1005.876	22492660.40	2.4945	A	0.4
8	☐			3100.45	0.0004	P	5.0

$$y = 0.0025 * x + 1.7986E-005$$

$$R = 0.9994$$

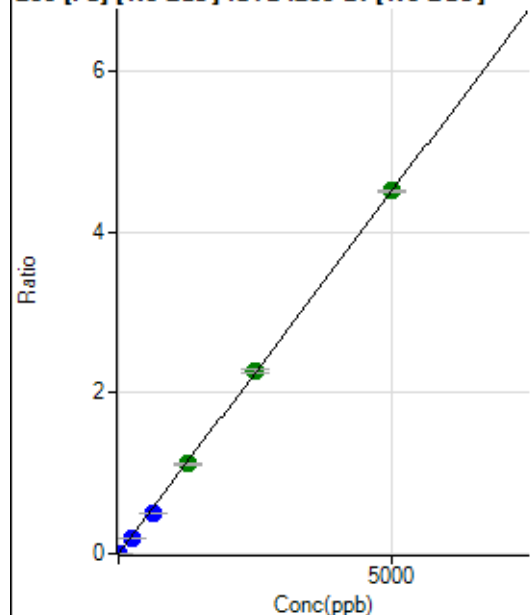
$$DL = 0.00616$$

$$BEC = 0.007253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	312.97	0.0000	P	3.4
2	☐	1.000	0.772	6770.36	0.0007	P	4.9
3	☐	250.000	218.625	1808433.10	0.1971	P	2.9
4	☐	625.000	553.094	4520931.24	0.4985	P	1.8
5	☐	1250.000	1235.524	10342360.41	1.1135	A	1.2
6	☐	2500.000	2512.774	20725187.04	2.2645	A	2.3
7	☐	5000.000	5007.789	40693770.82	4.5130	A	0.6
8	☐			58561.23	0.0073	P	1.4

$$y = 9.0119\text{E-}004 * x + 3.4384\text{E-}005$$

$$R = 0.9999$$

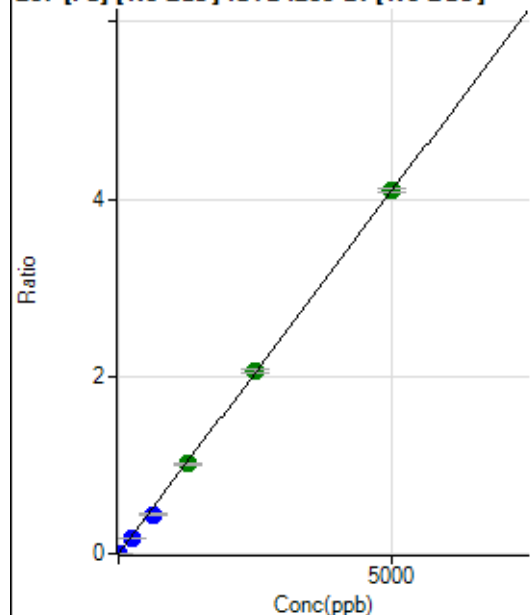
$$DL = 0.003892$$

$$BEC = 0.03815$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	288.90	0.0000	P	9.5
2	☐	1.000	0.714	5712.45	0.0006	P	6.6
3	☐	250.000	212.708	1596774.24	0.1740	P	2.4
4	☐	625.000	543.268	4029700.21	0.4443	P	1.3
5	☐	1250.000	1235.075	9381445.35	1.0100	A	0.8
6	☐	2500.000	2522.925	18881730.98	2.0632	A	2.0
7	☐	5000.000	5004.350	36898707.30	4.0925	A	1.2
8	☐			51109.20	0.0064	P	0.7

$$y = 8.1778\text{E-}004 * x + 3.1748\text{E-}005$$

$$R = 0.9998$$

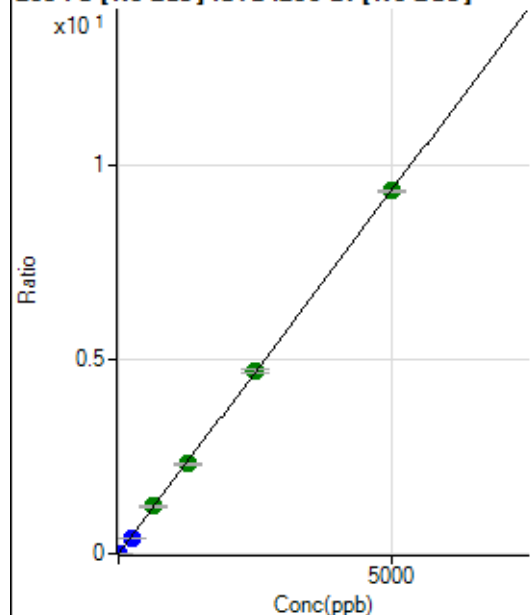
$$DL = 0.01107$$

$$BEC = 0.03882$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	590.39	0.0001	P	4.6
2	☐	1.000	0.766	13919.26	0.0015	P	3.3
3	☐	250.000	217.948	3749535.37	0.4085	P	1.3
4	☐	625.000	649.402	11037780.13	1.2169	A	0.5
5	☐	1250.000	1234.740	21491904.74	2.3138	A	1.4
6	☐	2500.000	2514.335	43118002.07	4.7115	A	1.6
7	☐	5000.000	4995.200	84400629.57	9.3602	A	0.5
8	☐			121961.27	0.0152	P	2.0

$$y = 0.0019 * x + 6.4864E-005$$

$$R = 0.9999$$

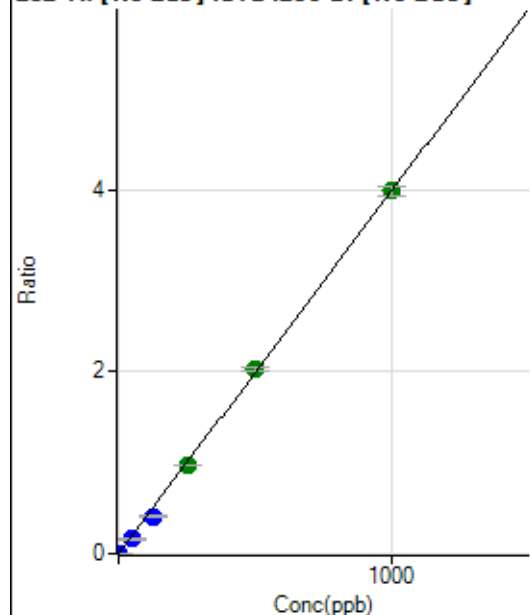
$$DL = 0.00481$$

$$BEC = 0.03462$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	572.25	0.0001	P	12.6
2	☐	1.000	-0.003	487.05	0.0001	P	2.5
3	☐	50.000	40.034	1464620.98	0.1596	P	1.6
4	☐	125.000	102.995	3722179.86	0.4104	P	1.0
5	☐	250.000	243.625	9015868.20	0.9707	A	0.6
6	☐	500.000	509.109	18561733.98	2.0283	A	1.1
7	☐	1000.000	1000.289	35927260.76	3.9852	A	2.6
8	☐			5973.71	0.0007	P	10.6

$$y = 0.0040 * x + 6.2888E-005$$

$$R = 0.9997$$

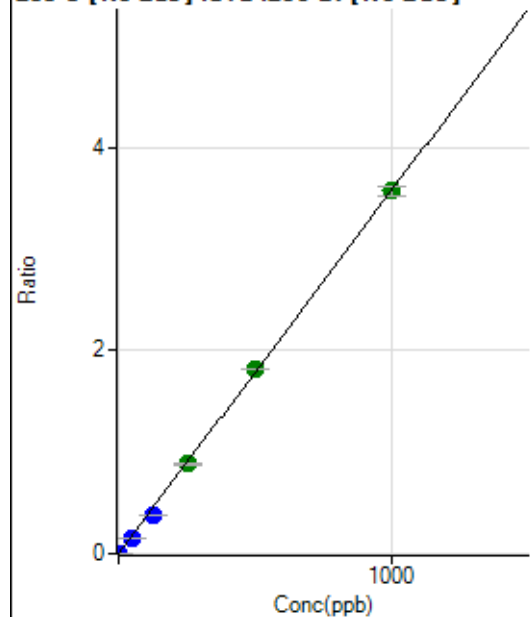
$$DL = 0.005973$$

$$BEC = 0.01579$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	266.68	0.0000	P	21.4
2	☐	1.000	0.734	24607.62	0.0027	P	1.4
3	☐	50.000	40.216	1319949.94	0.1438	P	1.8
4	☐	125.000	103.751	3363917.91	0.3709	P	0.7
5	☐	250.000	246.584	8186820.67	0.8814	A	1.2
6	☐	500.000	509.532	16667762.70	1.8213	A	0.3
7	☐	1000.000	999.234	32199641.00	3.5717	A	2.6
8	☐			3614.52	0.0004	P	4.4

$$y = 0.0036 * x + 2.9278E-005$$

$$R = 0.9997$$

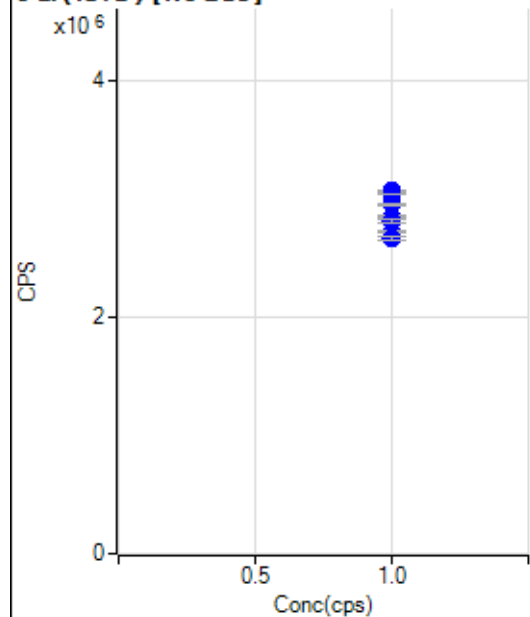
$$DL = 0.005268$$

$$BEC = 0.008191$$

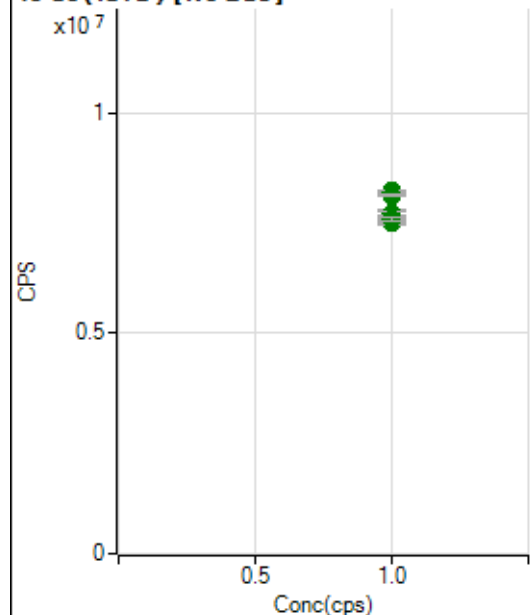
Weight: <None>

Min Conc: 0

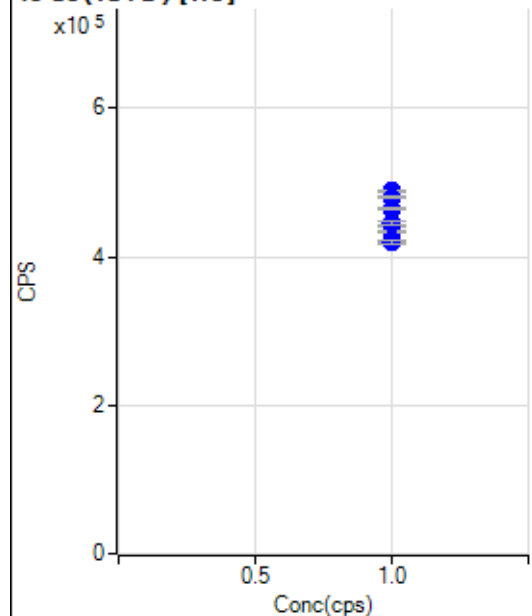
6 Li (ISTD) [No Gas]



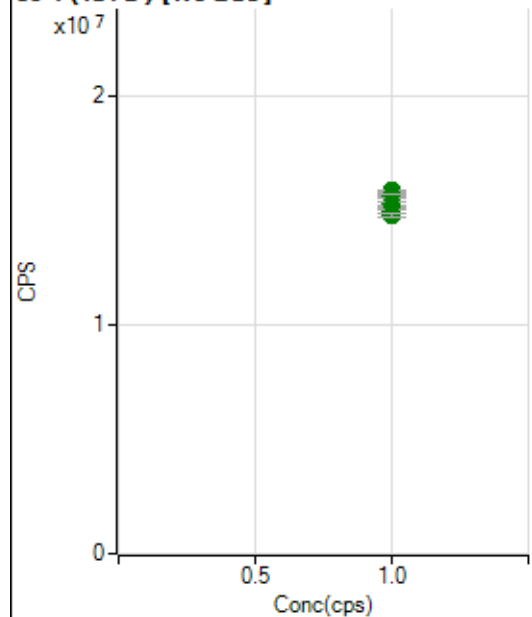
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		3048522.59		P	0.1
2	☐	1.000		3073134.78		P	0.4
3	☐	1.000		3045017.21		P	0.2
4	☐	1.000		2959922.07		P	0.2
5	☐	1.000		2855905.13		P	0.9
6	☐	1.000		2817721.59		P	0.7
7	☐	1.000		2726178.53		P	0.5
8	☐	1.000		2673333.64		P	1.2

45 Sc (ISTD) [No Gas]

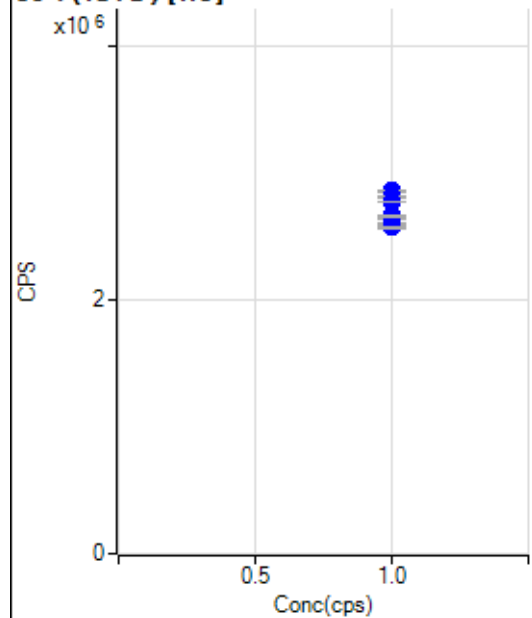
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8234145.15		A	0.7
2	☐	1.000		8210512.79		A	0.9
3	☐	1.000		8128278.63		A	0.5
4	☐	1.000		7738320.58		A	1.9
5	☐	1.000		7727908.22		A	1.1
6	☐	1.000		7579621.34		A	0.5
7	☐	1.000		7499400.58		A	0.5
8	☐	1.000		7582709.05		A	1.2

45 Sc (ISTD) [He]

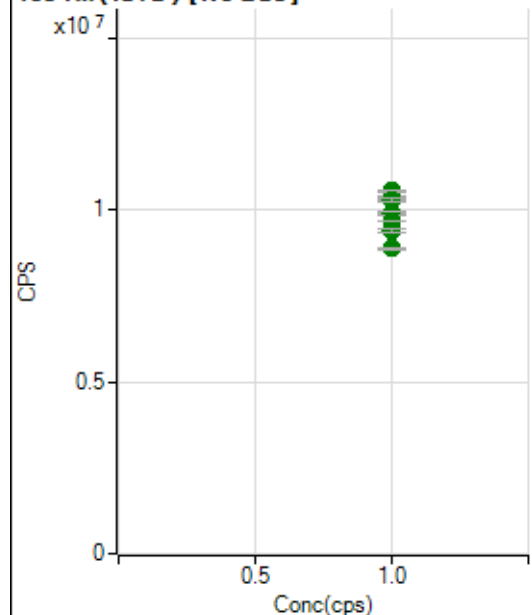
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		488687.20		P	0.5
2	☐	1.000		479433.36		P	0.5
3	☐	1.000		464134.51		P	0.5
4	☐	1.000		441745.02		P	0.2
5	☐	1.000		433306.66		P	0.3
6	☐	1.000		421881.32		P	0.5
7	☐	1.000		419582.26		P	1.2
8	☐	1.000		445323.74		P	0.8

89 Y (ISTD) [No Gas]

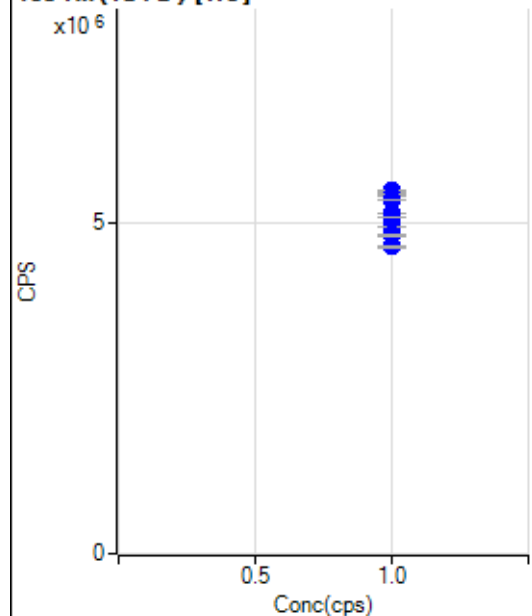
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		15799441.85		A	1.7
2	☐	1.000		15874148.37		A	0.8
3	☐	1.000		15664521.02		A	1.4
4	☐	1.000		15152056.58		A	0.8
5	☐	1.000		15271892.55		A	1.1
6	☐	1.000		15137276.30		A	0.4
7	☐	1.000		15010120.61		A	1.1
8	☐	1.000		14811508.11		A	1.0

89 Y (ISTD) [He]

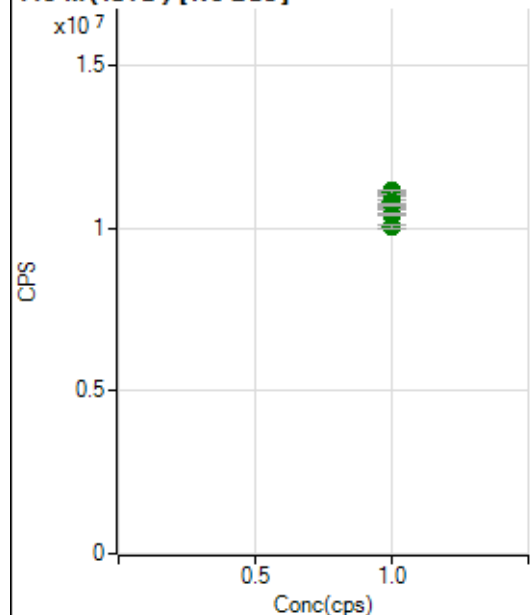
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2863215.41		P	0.5
2	☐	1.000		2816357.46		P	0.8
3	☐	1.000		2776692.18		P	0.4
4	☐	1.000		2669641.92		P	0.5
5	☐	1.000		2648744.65		P	0.2
6	☐	1.000		2603548.80		P	0.6
7	☐	1.000		2575968.21		P	0.9
8	☐	1.000		2664840.33		P	0.6

103 Rh (ISTD) [No Gas]

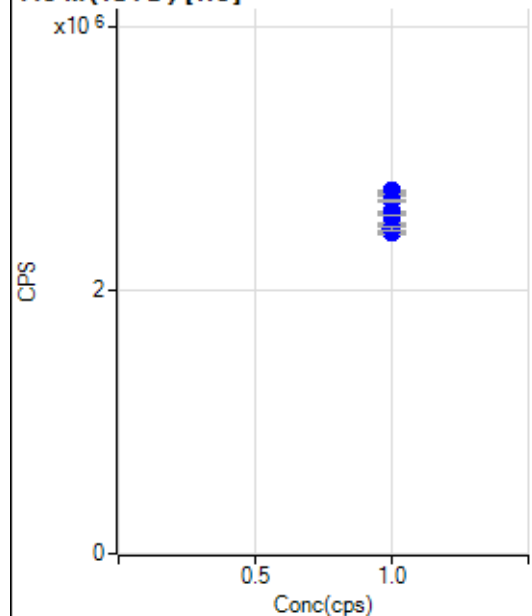
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10363673.39		A	0.9
2	☐	1.000		10551323.11		A	0.3
3	☐	1.000		10296125.26		A	1.0
4	☐	1.000		9911234.65		A	0.3
5	☐	1.000		9891508.19		A	1.1
6	☐	1.000		9677932.91		A	0.4
7	☐	1.000		9392075.28		A	1.1
8	☐	1.000		8881501.26		A	0.5

103 Rh (ISTD) [He]

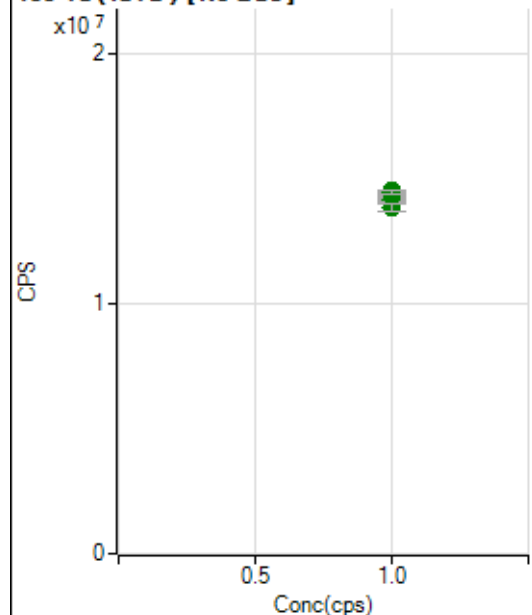
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5491839.99		P	0.6
2	☐	1.000		5426159.85		P	0.2
3	☐	1.000		5356356.76		P	0.4
4	☐	1.000		5152221.35		P	0.3
5	☐	1.000		5088823.64		P	0.1
6	☐	1.000		4946147.08		P	0.2
7	☐	1.000		4826438.29		P	0.5
8	☐	1.000		4647651.84		P	0.9

115 In (ISTD) [No Gas]

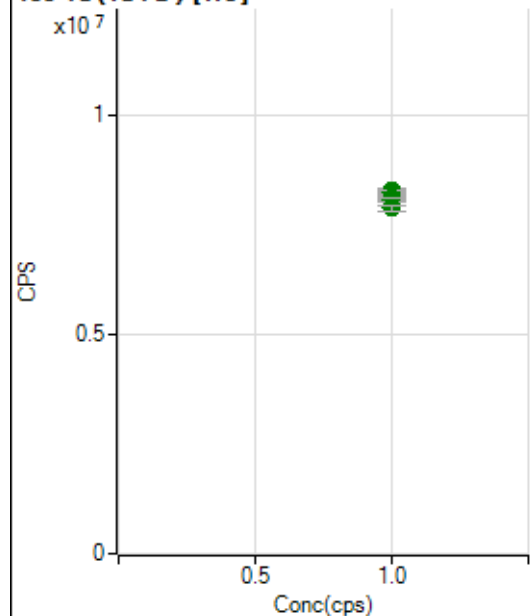
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11040622.26		A	0.9
2	☐	1.000		11148624.56		A	0.3
3	☐	1.000		11088347.98		A	1.0
4	☐	1.000		10610294.01		A	0.9
5	☐	1.000		10830815.75		A	1.2
6	☐	1.000		10729744.24		A	0.7
7	☐	1.000		10415905.67		A	0.3
8	☐	1.000		10062952.43		A	1.2

115 In (ISTD) [He]

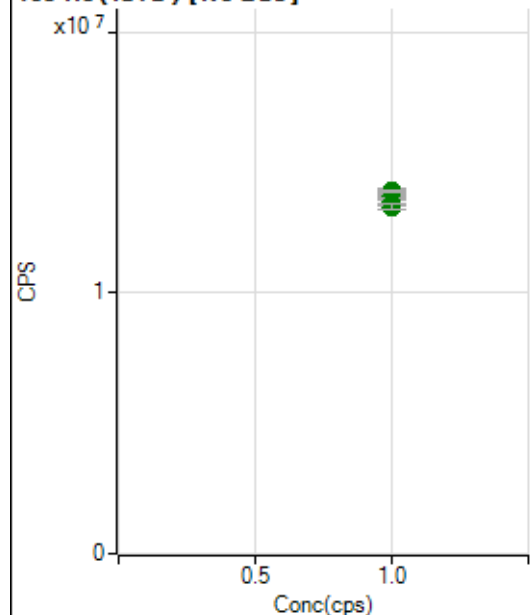
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2749883.65		P	0.5
2	☐	1.000		2718707.59		P	0.3
3	☐	1.000		2679147.30		P	0.4
4	☐	1.000		2591649.84		P	0.4
5	☐	1.000		2563065.46		P	0.0
6	☐	1.000		2497568.93		P	0.3
7	☐	1.000		2427385.82		P	0.9
8	☐	1.000		2461161.89		P	1.4

159 Tb (ISTD) [No Gas]

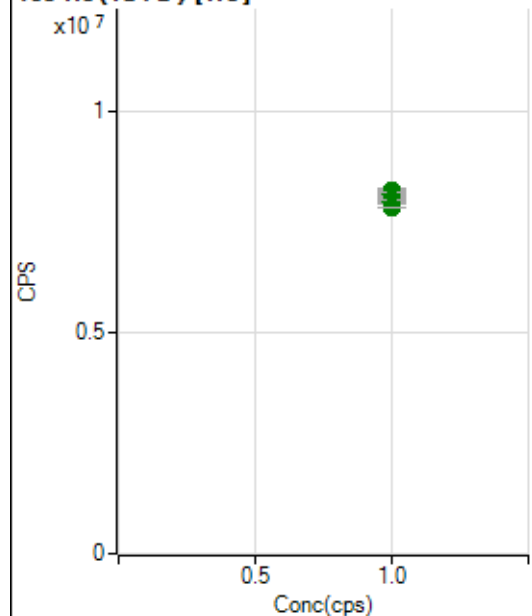
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14212267.43		A	0.7
2	☐	1.000		14255573.12		A	1.2
3	☐	1.000		14367471.45		A	0.2
4	☐	1.000		14127833.40		A	1.1
5	☐	1.000		14327364.09		A	0.3
6	☐	1.000		14519033.40		A	0.3
7	☐	1.000		14469994.09		A	0.8
8	☐	1.000		13844432.16		A	2.3

159 Tb (ISTD) [He]

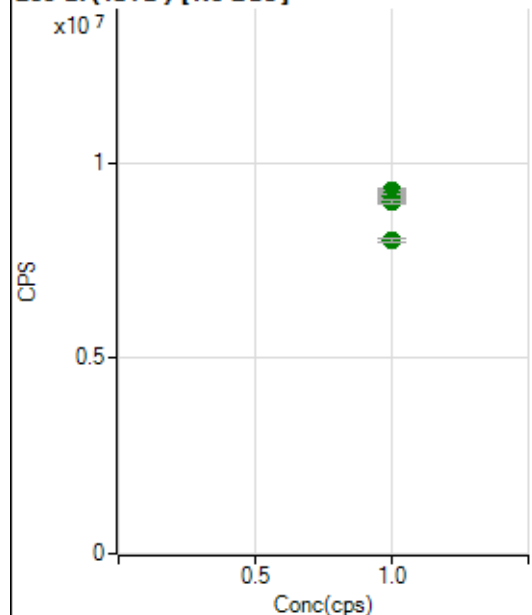
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8285455.37		A	1.9
2	☐	1.000		8213686.48		A	1.3
3	☐	1.000		8271258.97		A	1.1
4	☐	1.000		8123482.79		A	1.2
5	☐	1.000		8259764.80		A	1.1
6	☐	1.000		8135671.34		A	0.0
7	☐	1.000		8079368.22		A	0.9
8	☐	1.000		7890825.30		A	1.9

165 Ho (ISTD) [No Gas]

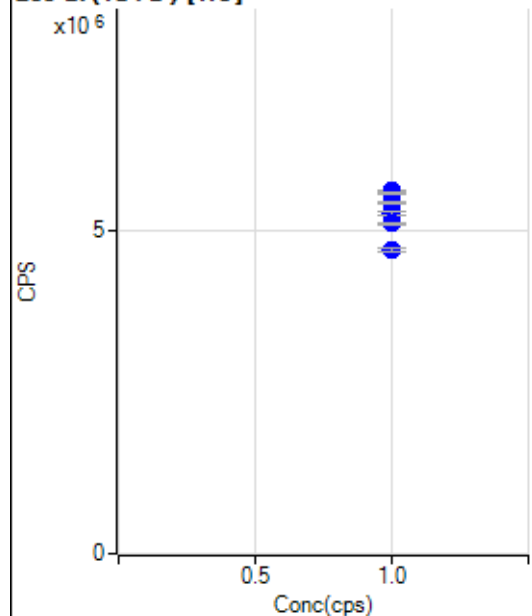
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13500886.74		A	0.8
2	☐	1.000		13812064.65		A	0.3
3	☐	1.000		13657813.13		A	0.6
4	☐	1.000		13447885.22		A	1.8
5	☐	1.000		13750656.33		A	1.7
6	☐	1.000		13914439.51		A	1.0
7	☐	1.000		13893622.57		A	0.3
8	☐	1.000		13311915.08		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8123475.16		A	0.5
2	☐	1.000		8214821.19		A	1.2
3	☐	1.000		8206622.03		A	0.3
4	☐	1.000		8020411.34		A	1.2
5	☐	1.000		8134007.24		A	1.0
6	☐	1.000		7991194.53		A	0.1
7	☐	1.000		7952066.62		A	1.2
8	☐	1.000		7835612.04		A	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9103633.06		A	0.7
2	☐	1.000		9282511.18		A	1.7
3	☐	1.000		9181513.26		A	2.4
4	☐	1.000		9070380.77		A	1.0
5	☐	1.000		9288376.87		A	0.7
6	☐	1.000		9151333.06		A	0.9
7	☐	1.000		9017209.24		A	1.4
8	☐	1.000		8031453.84		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5618521.65		P	0.8
2	☐	1.000		5581959.50		P	0.4
3	☐	1.000		5578501.58		P	0.8
4	☐	1.000		5434035.96		P	1.0
5	☐	1.000		5426307.49		P	0.4
6	☐	1.000		5277897.21		P	0.9
7	☐	1.000		5109917.67		P	0.7
8	☐	1.000		4708838.85		P	1.3

US EPA Tune Check Sample Report

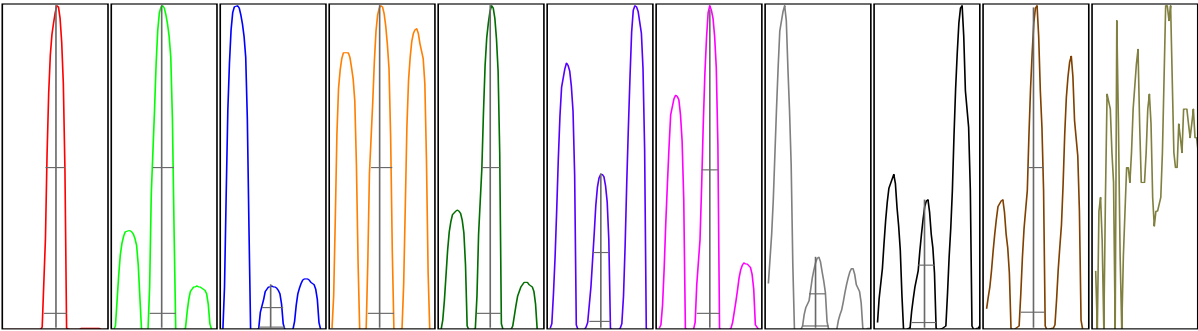
Batch Folder C:\Agilent\ICPMH\1\DATA\P7110620IMS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	8691	0.77	5.00	
24	118862	0.56	5.00	
25	15697	0.87	5.00	
26	18448	0.63	5.00	
59	65028	0.62	5.00	
113	10112	1.06	5.00	
115	29061	0.65	5.00	
206	12238	0.67	5.00	
207	10386	1.04	5.00	
208	25525	0.62	5.00	
220	1	32.48		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	8652	8596	8707	8761	8738
24	118642	117801	119100	119317	119447
25	15761	15457	15800	15739	15726
26	18412	18258	18524	18522	18524
59	65027	64347	65140	65407	65219
113	10132	9982	10019	10207	10218
115	29310	28895	28957	28927	29214
206	12120	12204	12279	12246	12339
207	10339	10237	10380	10465	10511
208	25369	25504	25457	25508	25789
220	1	1	1	0	1

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	16472	9.05	8.9 - 9.1		0.687	0.900	
24	204176	23.95	23.9 - 24.1		0.773	0.900	
25	27201	24.95	24.9 - 25.1		0.731	0.900	
26	31769	25.95	25.9 - 26.1		0.778	0.900	
59	122728	59.00	58.9 - 59.1		0.723	0.900	
113	20872	113.05	112.9 - 113.1		0.646	0.900	
115	59439	115.05	114.9 - 115.1		0.684	0.900	
206	26179	205.95	205.9 - 206.1		0.724	0.900	
207	22393	206.95	206.9 - 207.1		0.728	0.900	
208	55863	207.95	207.9 - 208.1		0.722	0.900	
220			-				

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.1	V	Deflect	13.8	V
Extract 2	-185.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-90	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	200	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	19103	0.32	
89	60769	0.33	
205	37068	0.61	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	19063	19129	19090	19193	19040
89	61027	60645	60646	60942	60588
205	36794	37095	36908	37374	37170

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.68	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.40 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	10.3	V	Deflect	2.4	V
Extract 2	-205.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-100	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			