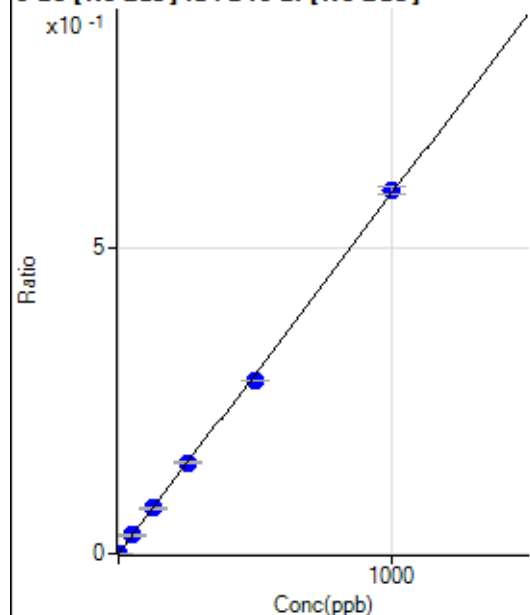


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8111420MS.b\
Analysis File: P8111420MS.batch.bin
DA Date-Time: 2020-11-15 17:45:08
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-15 10:44:48
2	004CAL.S.d	S02	2020-11-15 10:48:00
3	005CAL.S.d	S03	2020-11-15 10:51:10
4	006CAL.S.d	S04	2020-11-15 10:54:20
5	007CAL.S.d	S05	2020-11-15 10:57:24
6	008CAL.S.d	S06	2020-11-15 11:00:24
7	009CAL.S.d	S07	2020-11-15 11:03:23
8	010CAL.S.d	S08	2020-11-15 11:06:23

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	73.32	0.0001	P	3.9
2	☐	1.000	0.999	847.86	0.0006	P	6.3
3	☐	50.000	50.830	41663.56	0.0299	P	1.6
4	☐	125.000	125.969	105907.08	0.0740	P	1.1
5	☐	250.000	252.587	209275.86	0.1484	P	1.1
6	☐	500.000	481.471	412355.01	0.2828	P	0.8
7	☐	1000.000	1008.455	814335.04	0.5924	P	2.0
8	☐			425.92	0.0003	P	7.2

$$y = 5.8734\text{E-}004 * x + 5.2696\text{E-}005$$

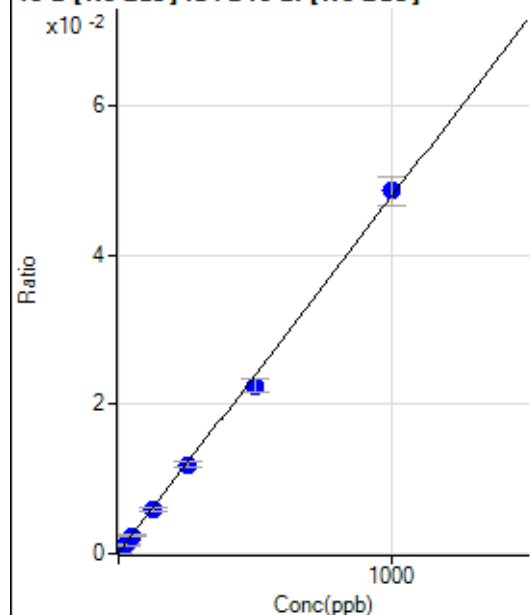
$$R = 0.9997$$

$$DL = 0.01044$$

$$BEC = 0.08972$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	152.64	0.0001	P	13.9
2	☐	25.000	22.499	1575.78	0.0012	P	6.8
3	☐	50.000	48.634	3391.06	0.0024	P	7.9
4	☐	125.000	123.447	8582.82	0.0060	P	8.3
5	☐	250.000	247.830	16845.65	0.0119	P	6.5
6	☐	500.000	469.295	32821.99	0.0225	P	7.4
7	☐	1000.000	1016.220	66812.78	0.0486	P	8.1
8	☐			10344.97	0.0073	P	11.5

$$y = 4.7733\text{E-}005 * x + 1.0986\text{E-}004$$

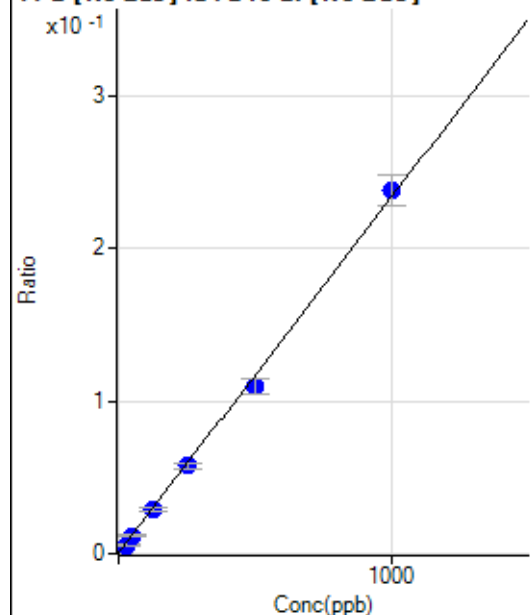
$$R = 0.9993$$

$$DL = 0.9566$$

$$BEC = 2.302$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	625.22	0.0004	P	0.9
2	☐	25.000	22.145	7469.12	0.0056	P	3.0
3	☐	50.000	48.760	16502.01	0.0118	P	5.1
4	☐	125.000	122.302	41475.38	0.0290	P	7.8
5	☐	250.000	245.792	81599.32	0.0578	P	6.8
6	☐	500.000	468.187	160050.96	0.1098	P	8.8
7	☐	1000.000	1017.429	327085.24	0.2380	P	8.6
8	☐			50047.02	0.0355	P	11.5

$$y = 2.3349\text{E-}004 * x + 4.4930\text{E-}004$$

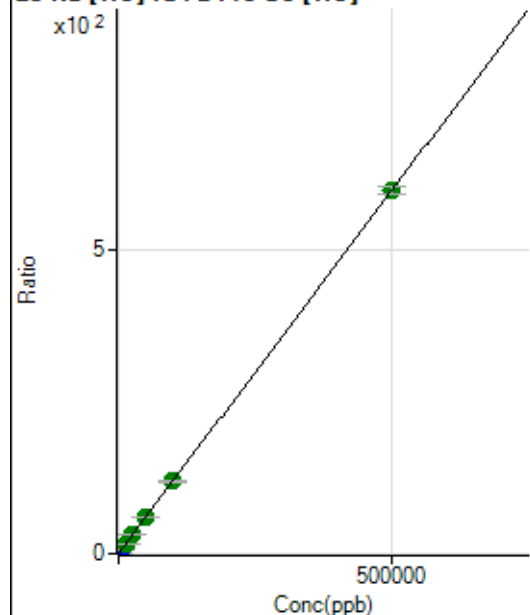
$$R = 0.9993$$

$$DL = 0.05073$$

$$BEC = 1.924$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	40456.60	0.3494	P	0.9
2	☐	500.000	471.503	104391.49	0.9121	P	1.7
3	☐	5000.000	5091.824	744076.26	6.4261	P	1.5
4	☐	12500.000	12870.903	1797515.88	15.7099	A	0.3
5	☐	25000.000	25876.111	3489905.80	31.2306	A	1.9
6	☐	50000.000	50132.187	6791503.10	60.1784	A	1.6
7	☐	100000.00	99401.149	13670110.03	118.9772	A	1.1
8	☐	500000.00	500052.58	66857379.27	597.1244	A	2.0

$$y = 0.0012 * x + 0.3494$$

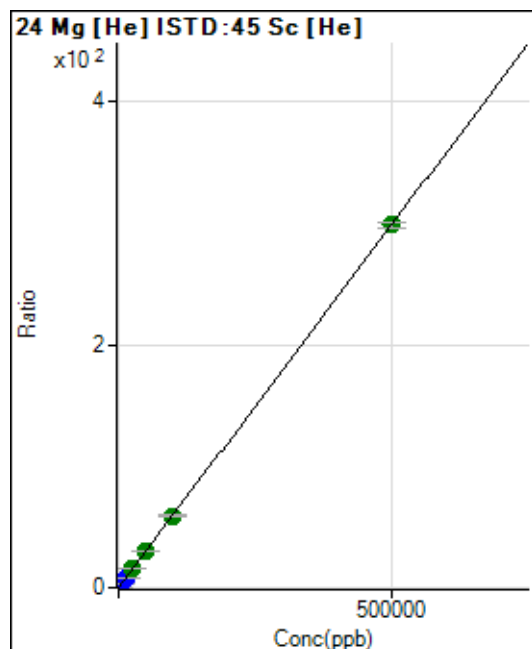
$$R = 1.0000$$

$$DL = 7.938$$

$$BEC = 292.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	588.92	0.0051	P	13.9
2	☐	500.000	473.808	32996.14	0.2882	P	0.7
3	☐	5000.000	5150.242	356967.36	3.0830	P	1.7
4	☐	12500.000	13180.859	901864.66	7.8822	P	0.4
5	☐	25000.000	25978.089	1735447.85	15.5301	A	2.0
6	☐	50000.000	50293.849	3392672.17	30.0616	A	1.3
7	☐	100000.00	99303.581	6818077.58	59.3508	A	2.3
8	☐	500000.00	500042.49	33460746.58	298.8399	A	1.3

$$y = 5.9762\text{E-}004 * x + 0.0051$$

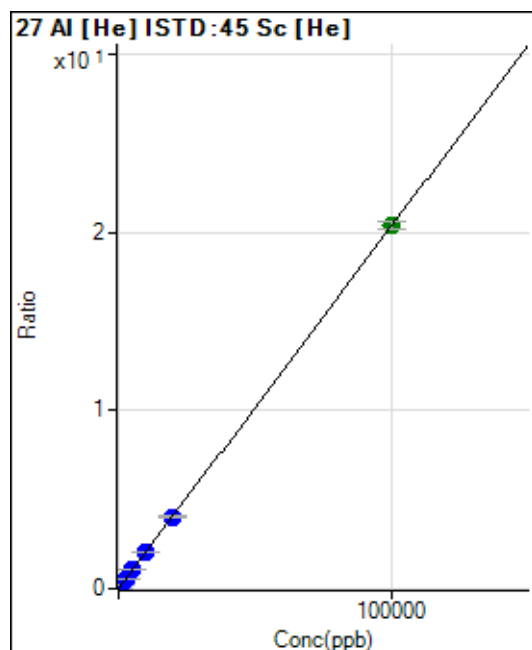
$$R = 1.0000$$

$$DL = 3.557$$

$$BEC = 8.516$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.28	0.0042	P	2.4
2	☐	20.000	21.685	982.83	0.0086	P	1.9
3	☐	1000.000	994.854	23919.90	0.2066	P	0.8
4	☐	2500.000	2532.904	59436.93	0.5195	P	0.5
5	☐	5000.000	5090.609	116200.34	1.0398	P	1.7
6	☐	10000.000	9932.529	228524.84	2.0249	P	0.9
7	☐	20000.000	19746.631	461963.33	4.0214	P	2.3
8	☐	100000.00	100052.11	2279442.21	20.3589	A	2.2

$$y = 2.0344\text{E-}004 * x + 0.0042$$

$$R = 1.0000$$

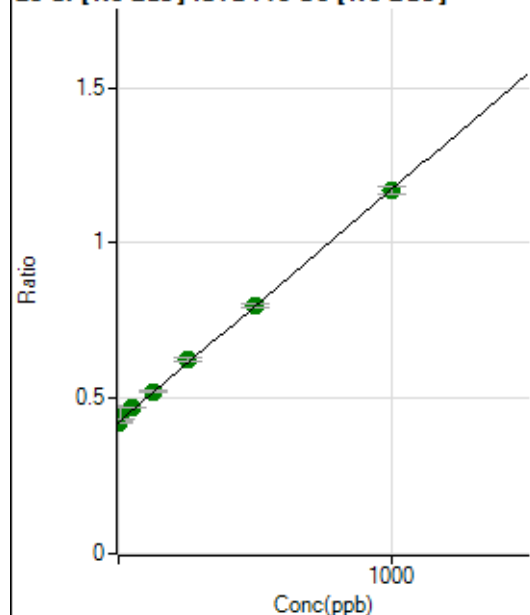
$$DL = 1.447$$

$$BEC = 20.52$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1137944.77	0.4239	A	0.5
2	☐	10.000	39.254	1169136.77	0.4532	A	10.0
3	☐	50.000	61.199	1258971.50	0.4697	A	0.4
4	☐	125.000	130.436	1435419.77	0.5215	A	1.3
5	☐	250.000	266.612	1684218.51	0.6235	A	2.4
6	☐	500.000	501.873	2142359.90	0.7997	A	1.4
7	☐	1000.000	993.378	3027288.70	1.1677	A	2.0
8	☐			1238028.00	0.4596	A	2.5

$$y = 7.4882\text{E-}004 * x + 0.4239$$

R = 0.9996

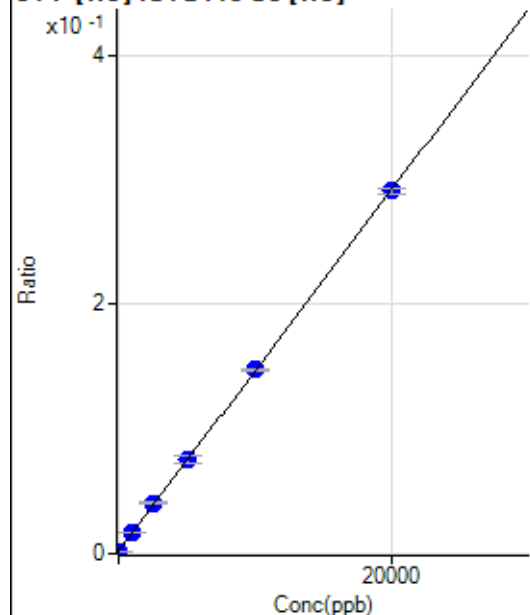
DL = 7.782

BEC = 566

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	5.767	255.57	0.0022	P	6.2
2	☐	0.000	-5.767	233.34	0.0020	P	12.9
3	☐	1000.000	1017.214	1952.96	0.0169	P	5.2
4	☐	2500.000	2664.937	4661.98	0.0407	P	5.2
5	☐	5000.000	5048.624	8408.24	0.0753	P	7.3
6	☐	10000.000	10035.411	16651.57	0.1475	P	0.8
7	☐	20000.000	19948.661	33453.18	0.2912	P	1.6
8	☐			286.12	0.0026	P	28.2

$$y = 1.4490\text{E-}005 * x + 0.0021$$

R = 1.0000

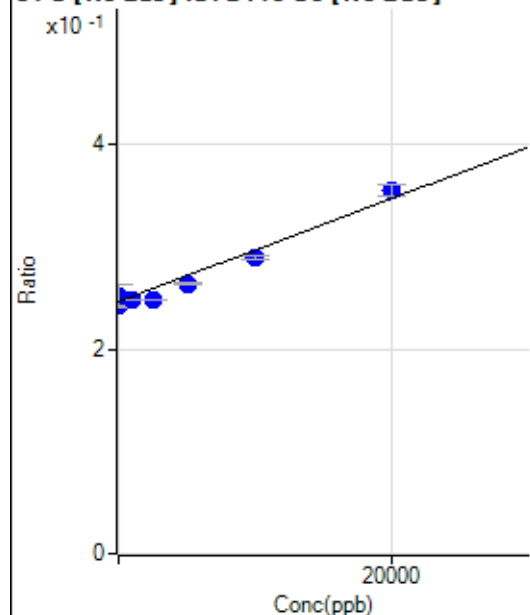
DL = 41.4

BEC = 146.5

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-943.100	649925.65	0.2421	P	0.6
2	☐	0.000	943.100	649436.06	0.2516	P	8.8
3	☐	1000.000	296.277	665641.79	0.2483	P	0.5
4	☐	2500.000	228.649	682561.35	0.2480	P	0.4
5	☐	5000.000	3432.558	713453.38	0.2641	P	0.7
6	☐	10000.000	8473.377	775574.13	0.2895	P	0.9
7	☐	20000.000	21474.277	919959.85	0.3550	P	3.1
8	☐			606754.87	0.2253	P	1.6

$$y = 5.0345E-006 * x + 0.2468$$

$$R = 0.9877$$

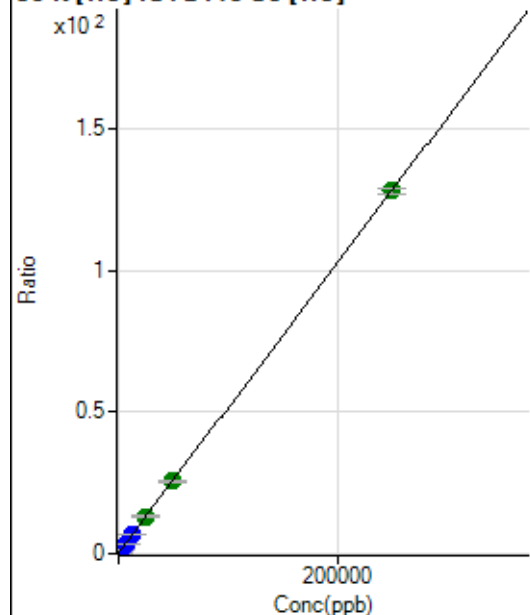
$$DL = 6975$$

$$BEC = 4.903E+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35296.45	0.3049	P	3.3
2	☐	500.000	460.061	61816.53	0.5401	P	2.6
3	☐	2500.000	2504.841	183609.46	1.5857	P	1.7
4	☐	6250.000	6444.955	411958.84	3.6005	P	0.4
5	☐	12500.000	12951.177	774228.16	6.9274	P	0.4
6	☐	25000.000	25305.712	1494853.22	13.2448	A	0.5
7	☐	50000.000	49263.496	2929063.30	25.4954	A	2.2
8	☐	250000.00	250089.32	14352441.29	128.1860	A	1.6

$$y = 5.1134E-004 * x + 0.3049$$

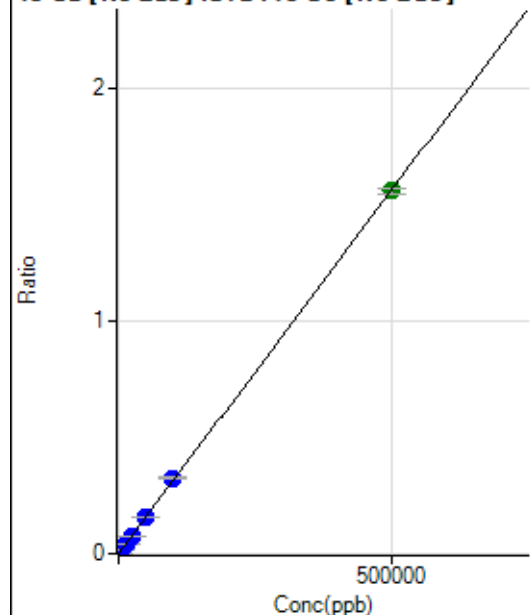
$$R = 1.0000$$

$$DL = 59.81$$

$$BEC = 596.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	483.28	0.0002	P	4.6
2	☐	500.000	476.197	4302.20	0.0017	P	8.5
3	☐	5000.000	4968.789	42052.15	0.0157	P	0.2
4	☐	12500.000	12399.493	107014.03	0.0389	P	0.7
5	☐	25000.000	24808.222	209646.08	0.0776	P	0.3
6	☐	50000.000	50022.889	418757.34	0.1563	P	0.8
7	☐	100000.00	104057.92	842258.55	0.3250	P	3.0
8	☐	500000.00	499198.56	4197415.69	1.5582	A	1.6

$$y = 3.1211\text{E-}006 * x + 1.8006\text{E-}004$$

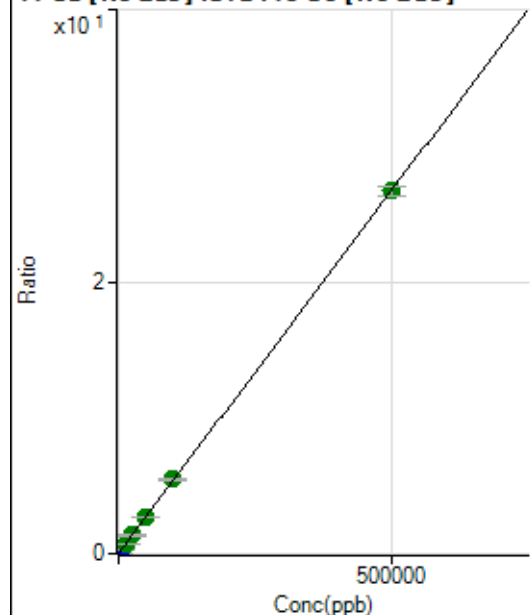
$$R = 1.0000$$

$$DL = 7.904$$

$$BEC = 57.69$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44059.70	0.0164	P	1.1
2	☐	500.000	484.116	109030.45	0.0422	P	8.6
3	☐	5000.000	4986.515	756961.76	0.2824	P	0.5
4	☐	12500.000	12566.449	1890100.89	0.6867	A	0.8
5	☐	25000.000	24893.243	3631230.92	1.3442	A	1.4
6	☐	50000.000	48951.992	7039408.78	2.6276	A	0.4
7	☐	100000.00	102048.79	14152170.59	5.4598	A	2.8
8	☐	500000.00	499698.86	71839616.00	26.6709	A	2.3

$$y = 5.3341\text{E-}005 * x + 0.0164$$

$$R = 1.0000$$

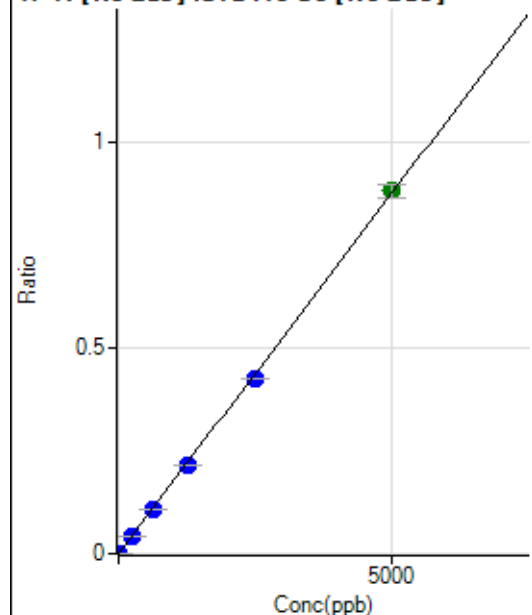
$$DL = 10.11$$

$$BEC = 307.7$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	433.35	0.0002	P	1.9
2	☐	5.000	4.876	2608.65	0.0010	P	18.4
3	☐	250.000	243.440	114649.23	0.0428	P	1.2
4	☐	625.000	618.044	298199.52	0.1083	P	1.2
5	☐	1250.000	1221.704	578087.43	0.2140	P	0.5
6	☐	2500.000	2437.775	1143583.81	0.4269	P	0.2
7	☐	5000.000	5039.384	2286591.26	0.8822	A	3.4
8	☐			705.59	0.0003	P	13.8

$$y = 1.7504\text{E-}004 * x + 1.6142\text{E-}004$$

$$R = 0.9999$$

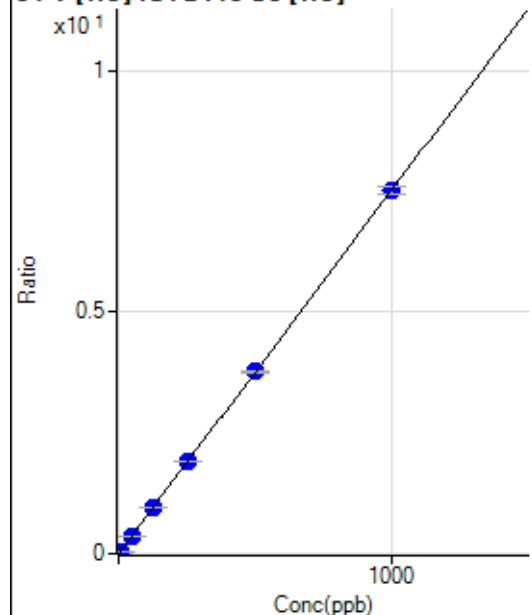
$$DL = 0.05326$$

$$BEC = 0.9222$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	14.44	0.0001	P	35.0
2	☐	5.000	4.715	4069.50	0.0356	P	5.8
3	☐	50.000	48.984	42628.89	0.3682	P	1.6
4	☐	125.000	125.490	107895.96	0.9430	P	0.8
5	☐	250.000	253.759	213089.17	1.9067	P	1.1
6	☐	500.000	500.662	424561.19	3.7618	P	0.9
7	☐	1000.000	998.720	862068.94	7.5040	P	2.0
8	☐			183.34	0.0016	P	34.7

$$y = 0.0075 * x + 1.2473\text{E-}004$$

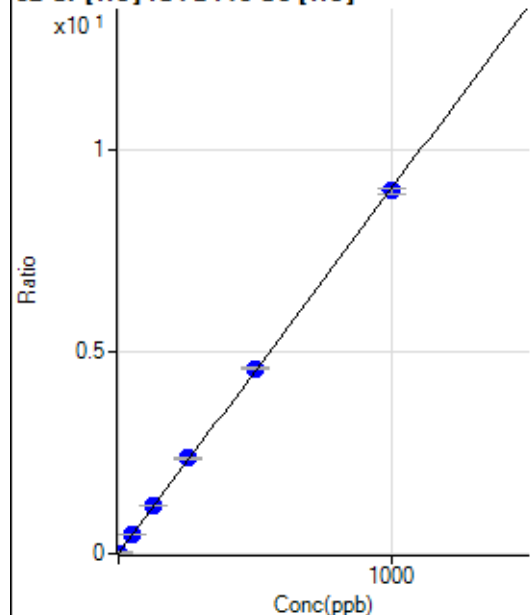
$$R = 1.0000$$

$$DL = 0.01741$$

$$BEC = 0.0166$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	760.03	0.0066	P	1.5
2	☐	2.000	1.903	2718.07	0.0237	P	3.6
3	☐	50.000	50.743	53811.84	0.4648	P	1.9
4	☐	125.000	131.217	136307.33	1.1914	P	1.3
5	☐	250.000	260.781	263873.64	2.3613	P	1.8
6	☐	500.000	506.084	516475.06	4.5763	P	1.2
7	☐	1000.000	993.448	1031325.62	8.9771	P	1.9
8	☐			8616.00	0.0770	P	2.3

$$y = 0.0090 * x + 0.0066$$

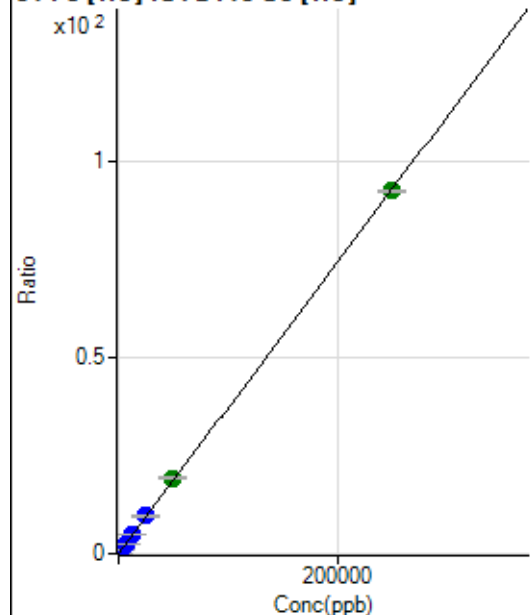
$$R = 0.9999$$

$$DL = 0.03164$$

$$BEC = 0.7269$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	496.31	0.0043	P	7.1
2	☐	50.000	50.753	2642.89	0.0231	P	7.3
3	☐	2500.000	2573.366	110973.32	0.9584	P	0.9
4	☐	6250.000	6576.234	279428.29	2.4424	P	1.3
5	☐	12500.000	13243.096	549178.64	4.9141	P	1.4
6	☐	25000.000	25847.832	1081988.86	9.5873	P	1.6
7	☐	50000.000	52177.037	2222862.55	19.3488	A	1.9
8	☐	250000.00	249433.76	10355177.43	92.4812	A	0.7

$$y = 3.7075E-004 * x + 0.0043$$

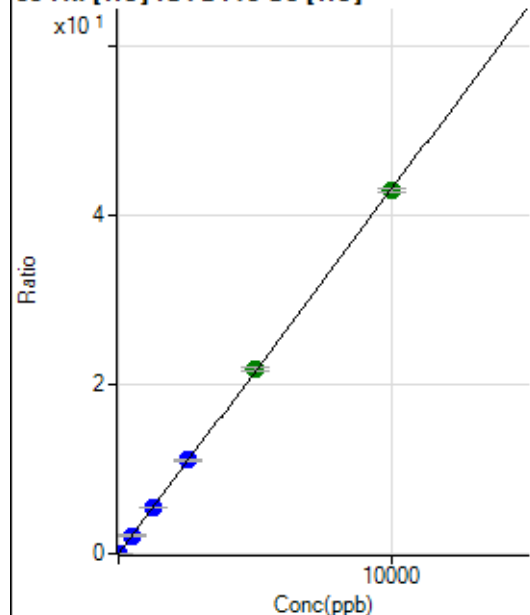
$$R = 1.0000$$

$$DL = 2.462$$

$$BEC = 11.56$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	124.45	0.0011	P	15.4
2	☐	1.000	0.982	606.69	0.0053	P	1.6
3	☐	500.000	498.395	248421.15	2.1455	P	1.5
4	☐	1250.000	1269.097	624857.06	5.4615	P	1.0
5	☐	2500.000	2563.697	1232815.77	11.0316	P	1.4
6	☐	5000.000	5057.774	2455898.59	21.7625	A	2.7
7	☐	10000.000	9952.882	4920532.91	42.8241	A	1.2
8	☐			4813.08	0.0430	P	6.8

$$y = 0.0043 * x + 0.0011$$

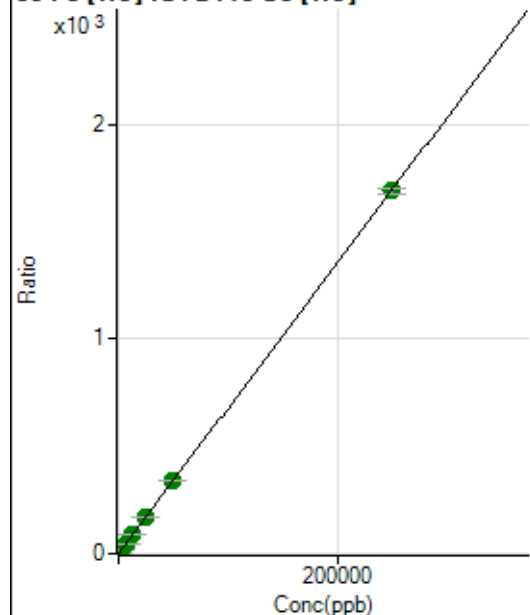
$$R = 0.9999$$

$$DL = 0.1156$$

$$BEC = 0.25$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3126.33	0.0270	P	8.1
2	☐	50.000	48.216	40385.09	0.3528	P	1.5
3	☐	2500.000	2574.066	2017034.77	17.4209	A	2.2
4	☐	6250.000	6519.438	5043678.41	44.0812	A	0.6
5	☐	12500.000	12929.565	9767179.27	87.3966	A	1.3
6	☐	25000.000	25268.983	19273237.70	170.7785	A	1.8
7	☐	50000.000	50262.198	39020236.98	339.6665	A	2.3
8	☐	250000.00	249891.70	189066948.6	1,688.633	A	1.9

$$y = 0.0068 * x + 0.0270$$

$$R = 1.0000$$

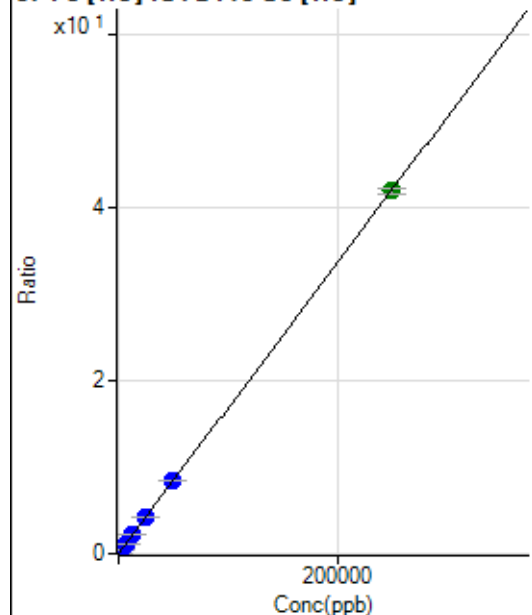
$$DL = 0.9734$$

$$BEC = 3.996$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	209.26	0.0018	P	9.7
2	☐	50.000	46.892	1107.47	0.0097	P	9.2
3	☐	2500.000	2557.526	49918.87	0.4311	P	1.2
4	☐	6250.000	6500.147	125037.24	1.0929	P	1.4
5	☐	12500.000	13095.338	245863.57	2.1999	P	0.9
6	☐	25000.000	25585.597	484885.85	4.2964	P	1.5
7	☐	50000.000	50576.507	975569.31	8.4913	P	1.5
8	☐	250000.00	249789.54	4694775.80	41.9299	A	1.8

$$y = 1.6785E-004 * x + 0.0018$$

$$R = 1.0000$$

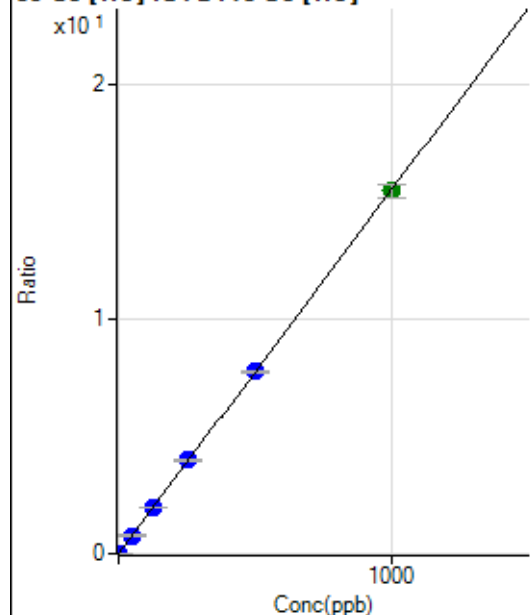
$$DL = 3.143$$

$$BEC = 10.77$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.56	0.0007	P	21.1
2	☐	1.000	0.917	1703.46	0.0149	P	4.9
3	☐	50.000	49.918	89749.33	0.7751	P	1.7
4	☐	125.000	127.503	226401.15	1.9788	P	0.9
5	☐	250.000	257.210	446014.99	3.9912	P	1.7
6	☐	500.000	501.041	877383.79	7.7742	P	1.1
7	☐	1000.000	997.369	1777280.22	15.4746	A	3.7
8	☐			3313.76	0.0296	P	3.2

$$y = 0.0155 * x + 6.5366E-004$$

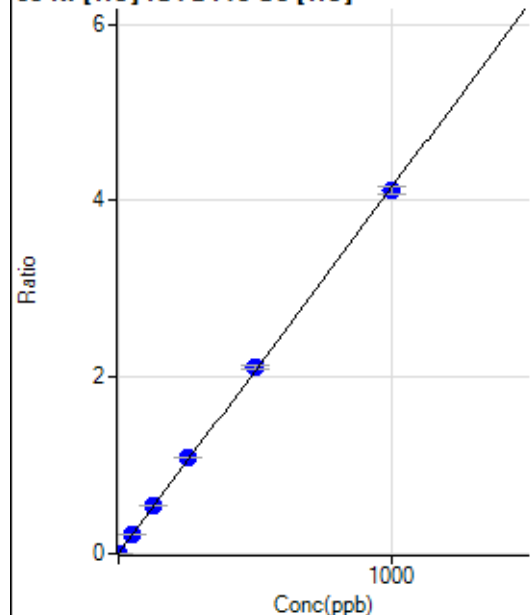
$$R = 1.0000$$

$$DL = 0.02673$$

$$BEC = 0.04213$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	322.23	0.0028	P	15.4
2	☐	1.000	0.908	750.03	0.0065	P	7.9
3	☐	50.000	51.142	24872.89	0.2148	P	0.8
4	☐	125.000	130.407	62167.24	0.5434	P	1.3
5	☐	250.000	261.800	121596.37	1.0881	P	1.1
6	☐	500.000	510.212	239010.12	2.1178	P	1.5
7	☐	1000.000	991.211	472376.23	4.1118	P	2.0
8	☐			2954.78	0.0264	P	5.7

$$y = 0.0041 * x + 0.0028$$

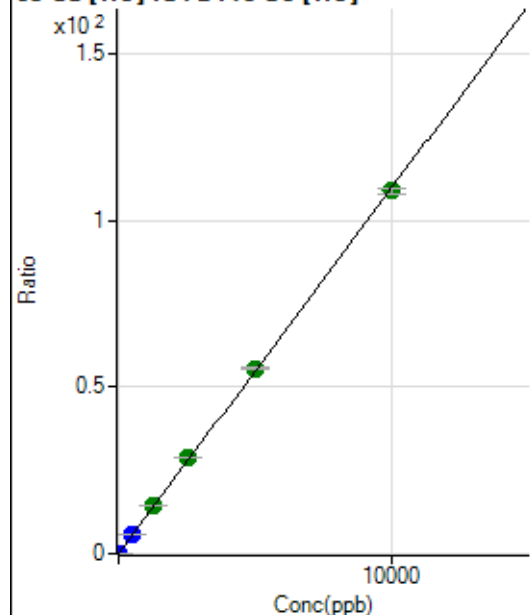
$$R = 0.9998$$

$$DL = 0.3112$$

$$BEC = 0.6716$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	688.91	0.0060	P	7.7
2	☐	2.000	2.004	3200.39	0.0280	P	4.3
3	☐	500.000	517.199	658386.80	5.6857	P	0.7
4	☐	1250.000	1315.074	1652999.67	14.4477	A	1.4
5	☐	2500.000	2620.027	3216269.98	28.7783	A	0.7
6	☐	5000.000	5072.241	6286907.13	55.7078	A	1.8
7	☐	10000.000	9924.879	12523353.29	108.9980	A	1.5
8	☐			6978.50	0.0623	P	9.2

$$y = 0.0110 * x + 0.0060$$

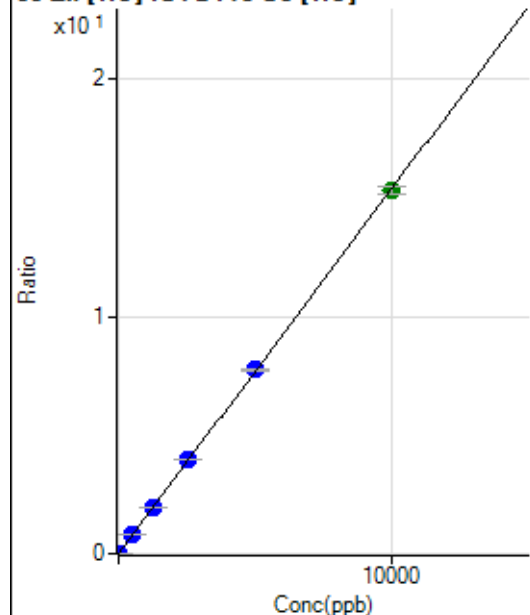
$$R = 0.9999$$

$$DL = 0.1253$$

$$BEC = 0.542$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	103.34	0.0009	P	12.1
2	☐	2.000	2.185	486.68	0.0043	P	12.3
3	☐	500.000	505.536	90173.23	0.7787	P	0.3
4	☐	1250.000	1285.749	226436.49	1.9791	P	0.5
5	☐	2500.000	2593.006	445946.96	3.9903	P	1.1
6	☐	5000.000	5047.344	876520.20	7.7664	P	0.8
7	☐	10000.000	9948.331	1758561.92	15.3068	A	2.0
8	☐			5155.44	0.0460	P	4.5

$$y = 0.0015 * x + 8.9288E-004$$

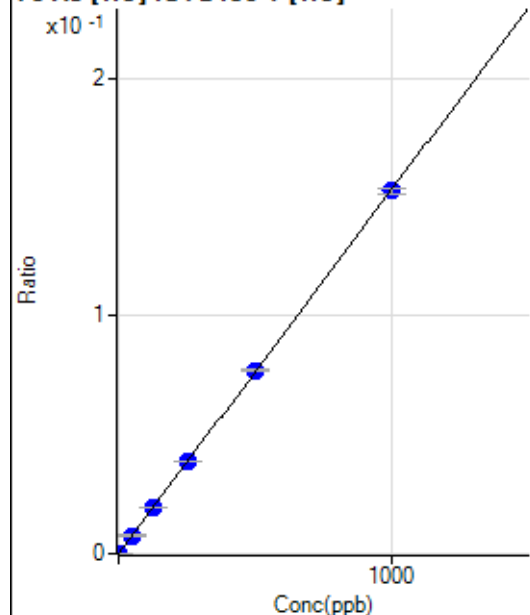
$$R = 0.9999$$

$$DL = 0.2109$$

$$BEC = 0.5803$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.67	0.0000	P	26.6
2	☐	1.000	0.936	132.35	0.0002	P	15.0
3	☐	50.000	49.871	6666.92	0.0076	P	2.4
4	☐	125.000	126.661	16802.33	0.0194	P	0.8
5	☐	250.000	252.558	33282.31	0.0386	P	0.6
6	☐	500.000	504.094	66254.08	0.0771	P	0.9
7	☐	1000.000	997.113	133980.27	0.1525	P	1.8
8	☐			58.01	0.0001	P	12.9

$$y = 1.5298E-004 * x + 1.1224E-005$$

$$R = 1.0000$$

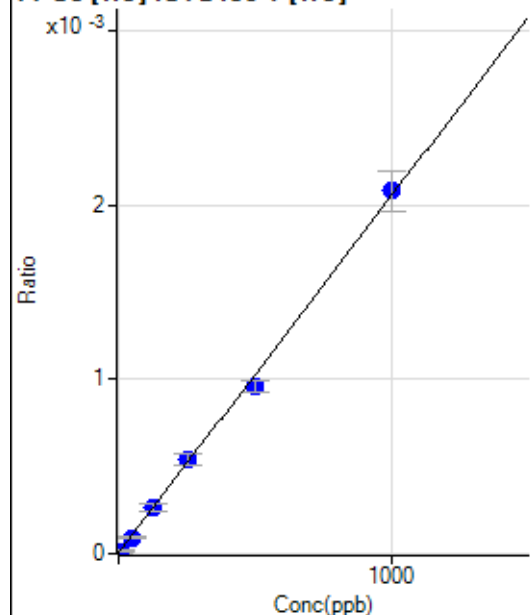
$$DL = 0.05856$$

$$BEC = 0.07337$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.33	0.0000	P	173.2
2	☐	5.000	5.680	13.34	0.0000	P	43.2
3	☐	50.000	42.794	80.00	0.0001	P	14.4
4	☐	125.000	126.898	228.89	0.0003	P	19.6
5	☐	250.000	260.013	462.23	0.0005	P	12.0
6	☐	500.000	468.261	827.81	0.0010	P	6.7
7	☐	1000.000	1013.486	1825.69	0.0021	P	11.5
8	☐			6.67	0.0000	P	0.6

$$y = 2.0500\text{E-}006 * x + 3.9015\text{E-}006$$

$$R = 0.9992$$

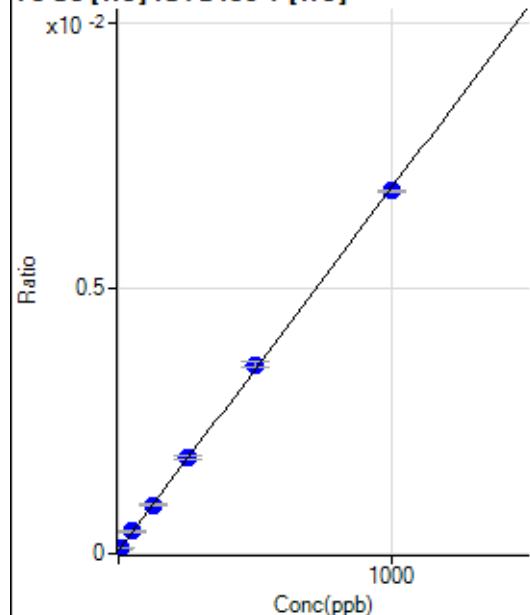
$$DL = 9.889$$

$$BEC = 1.903$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.01	0.0001	P	10.2
2	☐	5.000	5.401	83.34	0.0001	P	12.0
3	☐	50.000	52.967	368.37	0.0004	P	5.1
4	☐	125.000	126.139	799.44	0.0009	P	4.4
5	☐	250.000	256.968	1564.25	0.0018	P	4.7
6	☐	500.000	512.082	3057.65	0.0036	P	2.9
7	☐	1000.000	991.924	6008.23	0.0068	P	0.4
8	☐			52.67	0.0001	P	16.7

$$y = 6.8342\text{E-}006 * x + 6.0308\text{E-}005$$

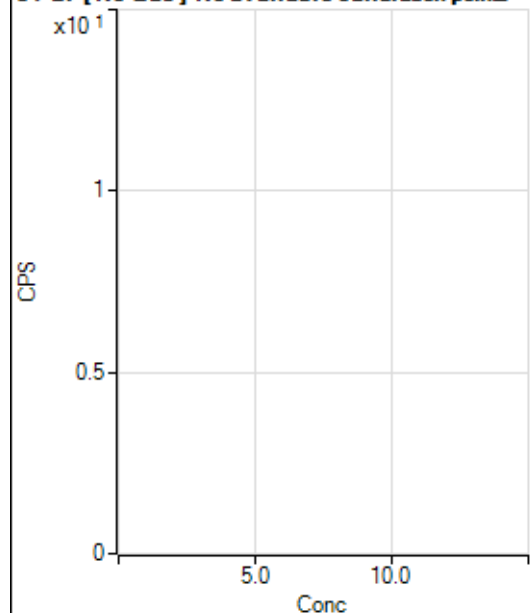
$$R = 0.9999$$

$$DL = 2.713$$

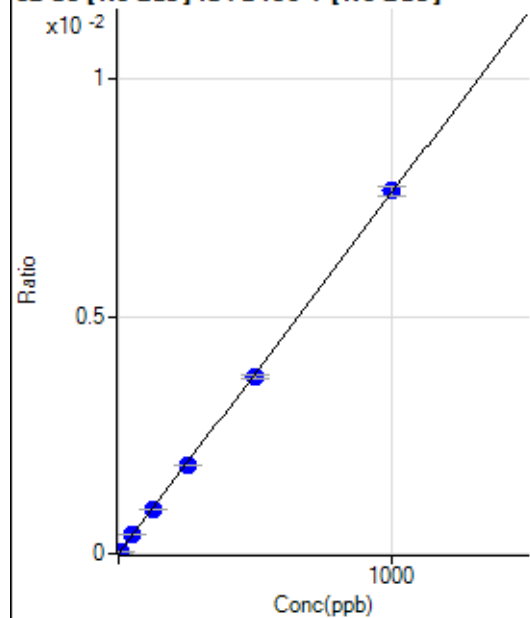
$$BEC = 8.824$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2856.57		P	3.9
2	☐			2776.47		P	10.1
3	☐			2753.11		P	5.1
4	☐			2930.00		P	6.2
5	☐			2636.30		P	3.8
6	☐			2749.77		P	10.4
7	☐			2799.84		P	9.2
8	☐			2843.22		P	8.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-8.93	0.0000	P	-1137.
2	☐	5.000	4.514	215.56	0.0000	P	47.1
3	☐	50.000	51.077	2644.25	0.0004	P	1.4
4	☐	125.000	124.563	6639.33	0.0009	P	0.9
5	☐	250.000	245.900	12793.85	0.0019	P	1.7
6	☐	500.000	489.464	25620.80	0.0037	P	2.1
7	☐	1000.000	1006.296	51055.43	0.0077	P	2.6
8	☐			52.76	0.0000	P	63.7

$$y = 7.6050E-006 * x - 1.2154E-006$$

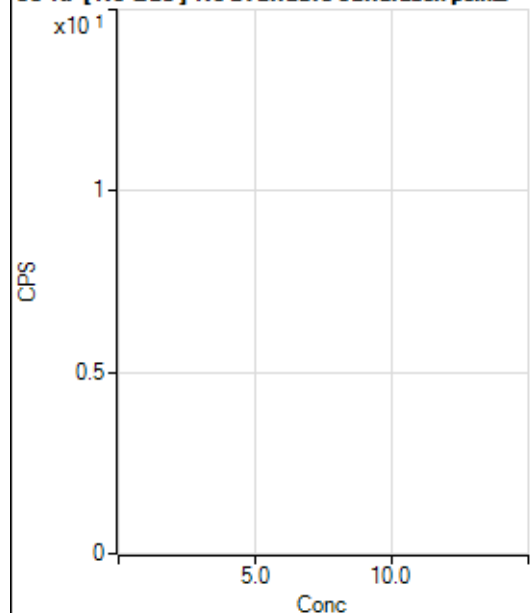
$$R = 0.9999$$

$$DL = 5.455$$

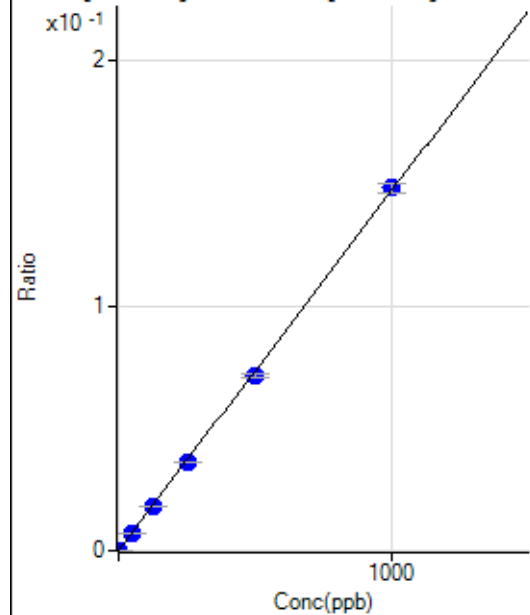
$$BEC = -0.1598$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			467.79		P	19.2
2	☐			451.12		P	15.6
3	☐			454.46		P	8.1
4	☐			390.01		P	8.2
5	☐			506.68		P	9.2
6	☐			441.12		P	3.8
7	☐			448.90		P	9.1
8	☐			426.68		P	10.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	730.59	0.0001	P	9.8
2	☐	1.000	0.948	1633.47	0.0002	P	5.9
3	☐	50.000	49.253	50053.99	0.0073	P	2.0
4	☐	125.000	121.546	125866.12	0.0179	P	0.9
5	☐	250.000	246.076	247852.37	0.0362	P	0.5
6	☐	500.000	485.919	491511.70	0.0714	P	1.8
7	☐	1000.000	1008.491	987840.27	0.1480	P	2.7
8	☐			6248.81	0.0009	P	4.7

$$y = 1.4669E-004 * x + 1.0589E-004$$

$$R = 0.9998$$

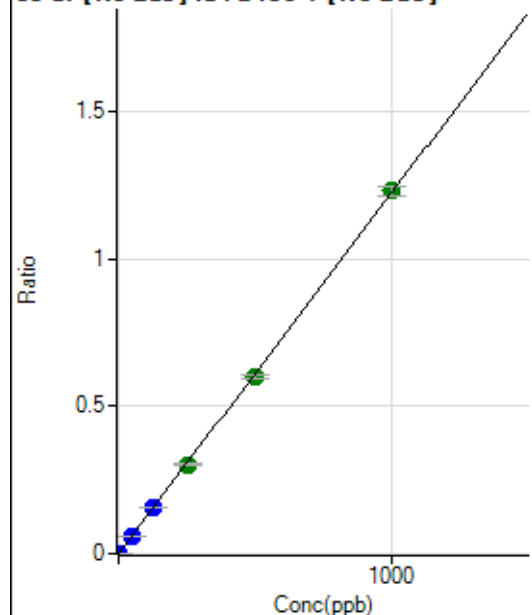
$$DL = 0.2118$$

$$BEC = 0.7218$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	141.67	0.0000	P	20.7
2	☐	1.000	0.969	8024.73	0.0012	P	11.7
3	☐	50.000	50.267	420925.80	0.0616	P	1.0
4	☐	125.000	125.688	1081439.79	0.1541	P	0.6
5	☐	250.000	247.423	2076579.41	0.3033	A	2.0
6	☐	500.000	489.649	4133149.01	0.6003	A	1.4
7	☐	1000.000	1005.721	8226311.73	1.2330	A	2.6
8	☐			48214.26	0.0070	P	3.0

$$y = 0.0012 * x + 2.0517E-005$$

$$R = 0.9999$$

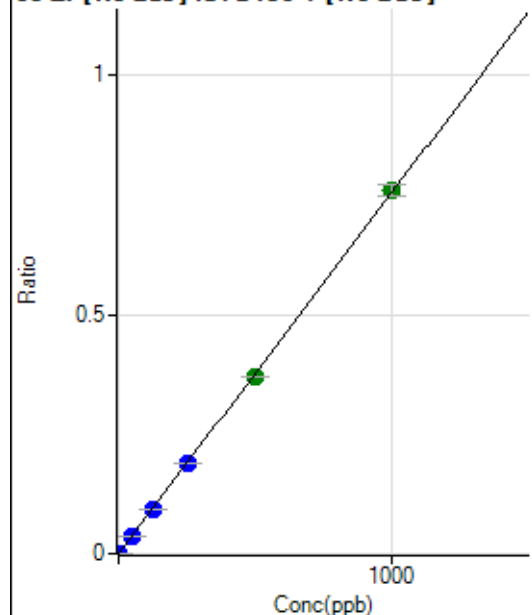
$$DL = 0.01037$$

$$BEC = 0.01674$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	313.90	0.0000	P	5.2
2	☐	1.000	0.917	4912.13	0.0007	P	7.2
3	☐	50.000	49.377	254660.68	0.0373	P	1.4
4	☐	125.000	123.803	655735.95	0.0934	P	0.5
5	☐	250.000	249.865	1290745.03	0.1885	P	1.4
6	☐	500.000	489.949	2545272.00	0.3697	A	0.2
7	☐	1000.000	1005.240	5060060.18	0.7584	A	3.1
8	☐			1970.00	0.0003	P	15.7

$$y = 7.5440E-004 * x + 4.5479E-005$$

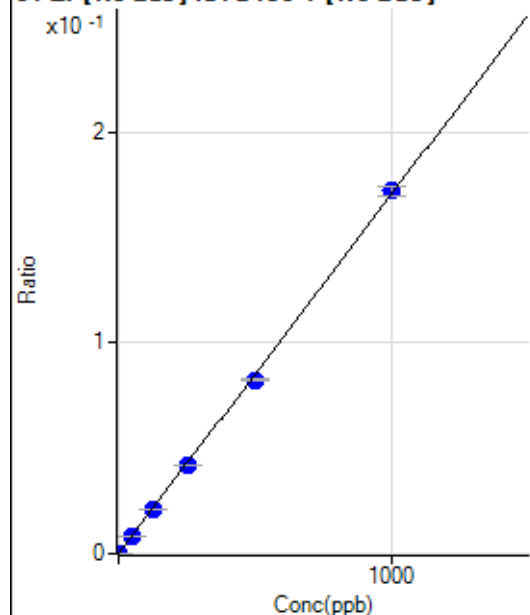
$$R = 0.9999$$

$$DL = 0.009461$$

$$BEC = 0.06029$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	42.8
2	☐	1.000	0.918	1122.30	0.0002	P	2.3
3	☐	50.000	48.486	56557.25	0.0083	P	2.9
4	☐	125.000	121.634	145708.96	0.0208	P	0.9
5	☐	250.000	246.662	288175.00	0.0421	P	1.3
6	☐	500.000	483.382	567895.05	0.0825	P	1.6
7	☐	1000.000	1009.640	1149381.15	0.1723	P	2.8
8	☐			402.80	0.0001	P	16.8

$$y = 1.7061\text{E-}004 * x + 1.1247\text{E-}005$$

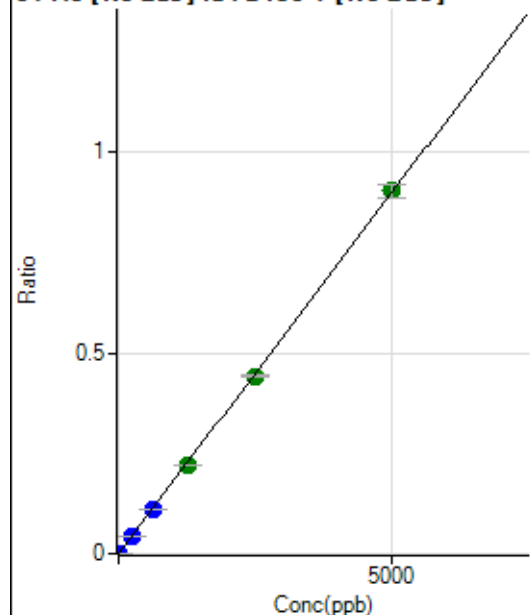
$$R = 0.9998$$

$$DL = 0.08457$$

$$BEC = 0.06592$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	122.23	0.0000	P	16.3
2	☐	5.000	4.935	5990.36	0.0009	P	14.8
3	☐	250.000	249.683	306300.69	0.0449	P	1.7
4	☐	625.000	621.367	783255.67	0.1116	P	0.3
5	☐	1250.000	1225.894	1507398.61	0.2202	A	0.8
6	☐	2500.000	2455.264	3036228.82	0.4410	A	1.0
7	☐	5000.000	5028.864	6025424.74	0.9032	A	3.6
8	☐			2236.36	0.0003	P	2.1

$$y = 1.7960\text{E-}004 * x + 1.7726\text{E-}005$$

$$R = 0.9999$$

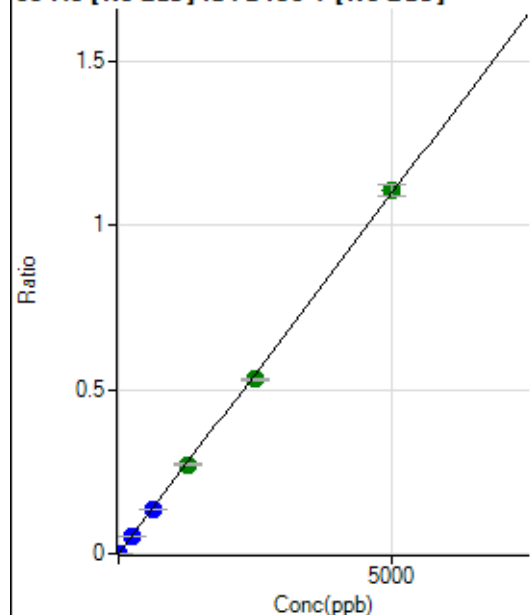
$$DL = 0.04817$$

$$BEC = 0.0987$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.0
2	☐	5.000	4.676	6857.46	0.0010	P	11.8
3	☐	250.000	248.873	372997.05	0.0546	P	2.1
4	☐	625.000	617.436	951044.19	0.1355	P	0.5
5	☐	1250.000	1238.221	1860552.34	0.2718	A	1.1
6	☐	2500.000	2427.586	3668679.03	0.5328	A	1.1
7	☐	5000.000	5040.154	7380737.14	1.1062	A	3.2
8	☐			2855.92	0.0004	P	4.7

$$y = 2.1948\text{E-}004 * x + 5.6254\text{E-}006$$

$$R = 0.9998$$

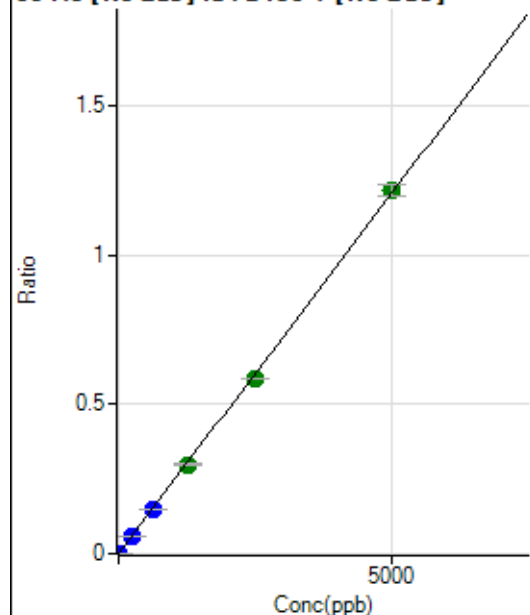
$$DL = 0.02461$$

$$BEC = 0.02563$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	58.2
2	☐	5.000	4.773	7735.71	0.0012	P	8.6
3	☐	250.000	249.759	411785.71	0.0603	P	1.5
4	☐	625.000	617.913	1046888.99	0.1492	P	0.3
5	☐	1250.000	1237.077	2044591.82	0.2987	A	1.1
6	☐	2500.000	2432.604	4043598.01	0.5873	A	0.3
7	☐	5000.000	5037.827	8114236.47	1.2162	A	3.1
8	☐			3589.62	0.0005	P	5.3

$$y = 2.4141\text{E-}004 * x + 9.6966\text{E-}006$$

$$R = 0.9999$$

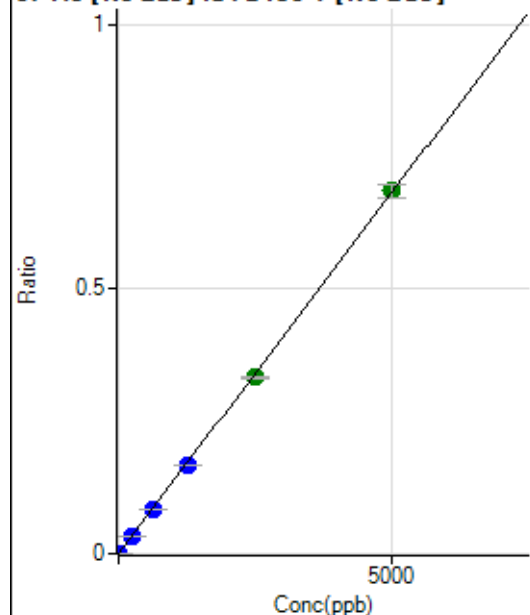
$$DL = 0.07016$$

$$BEC = 0.04017$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	5.000	4.526	4109.05	0.0006	P	7.9
3	☐	250.000	244.820	227661.88	0.0333	P	1.5
4	☐	625.000	611.042	583966.60	0.0832	P	1.0
5	☐	1250.000	1231.493	1148188.11	0.1677	P	0.3
6	☐	2500.000	2448.252	2295656.15	0.3334	A	0.9
7	☐	5000.000	5032.505	4572236.00	0.6854	A	3.4
8	☐			1697.38	0.0002	P	3.8

$$y = 1.3619E-004 * x + 3.9985E-007$$

$$R = 0.9999$$

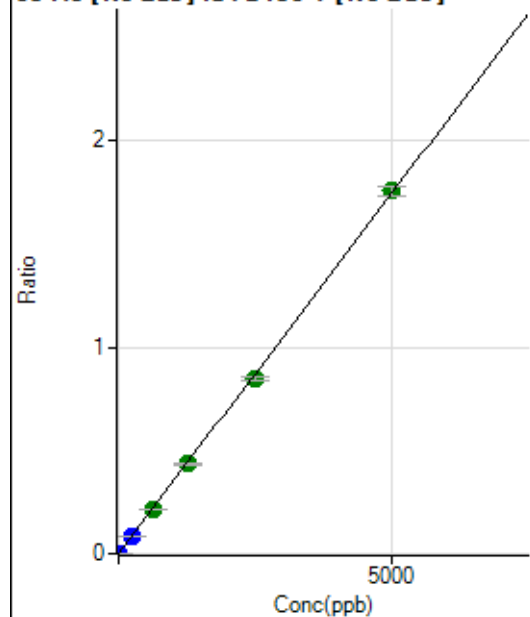
$$DL = 0.01526$$

$$BEC = 0.002936$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	35.1
2	☐	5.000	4.782	11088.05	0.0017	P	11.2
3	☐	250.000	244.589	582366.24	0.0853	P	1.3
4	☐	625.000	614.842	1504500.34	0.2144	A	0.8
5	☐	1250.000	1243.077	2967410.72	0.4334	A	0.7
6	☐	2500.000	2428.974	5831760.81	0.8470	A	1.8
7	☐	5000.000	5038.784	11722801.13	1.7570	A	2.7
8	☐			4512.00	0.0007	P	5.8

$$y = 3.4869E-004 * x + 2.0158E-006$$

$$R = 0.9999$$

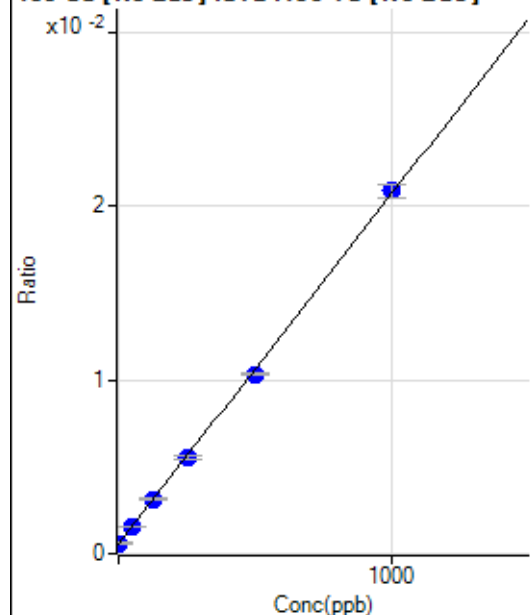
$$DL = 0.006084$$

$$BEC = 0.005781$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2128.00	0.0006	P	4.8
2	☐	1.000	1.467	2111.35	0.0006	P	3.6
3	☐	50.000	50.633	5692.99	0.0016	P	0.5
4	☐	125.000	127.445	11510.61	0.0031	P	1.8
5	☐	250.000	246.522	20354.37	0.0055	P	3.8
6	☐	500.000	483.597	38351.13	0.0103	P	1.2
7	☐	1000.000	1008.733	74814.12	0.0209	P	3.4
8	☐			2002.98	0.0005	P	5.0

$$y = 2.0144\text{E-}005 * x + 5.7237\text{E-}004$$

$$R = 0.9998$$

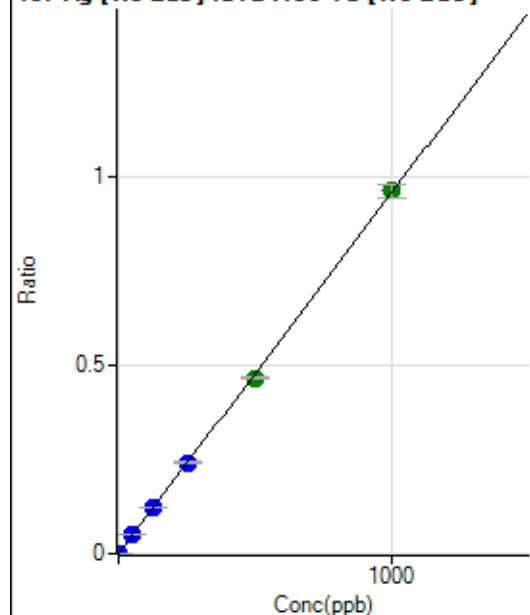
$$DL = 4.089$$

$$BEC = 28.41$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.55	0.0000	P	10.1
2	☐	1.000	0.996	3378.29	0.0010	P	8.9
3	☐	50.000	51.648	176699.85	0.0494	P	1.1
4	☐	125.000	128.813	451792.68	0.1232	P	0.7
5	☐	250.000	252.825	889072.61	0.2419	P	1.0
6	☐	500.000	486.535	1730765.82	0.4654	A	0.9
7	☐	1000.000	1005.467	3444140.79	0.9619	A	3.6
8	☐			1958.53	0.0005	P	9.4

$$y = 9.5661\text{E-}004 * x + 1.4947\text{E-}005$$

$$R = 0.9999$$

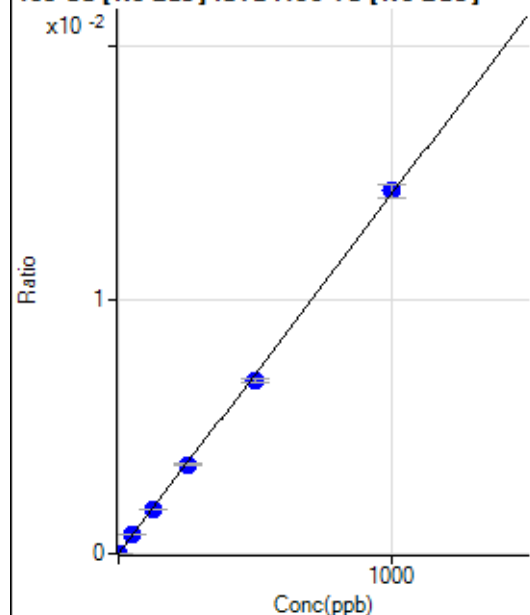
$$DL = 0.004743$$

$$BEC = 0.01563$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.94	0.0000	P	35.6
2	☐	1.000	0.891	50.00	0.0000	P	35.5
3	☐	50.000	51.032	2590.56	0.0007	P	1.3
4	☐	125.000	124.936	6493.28	0.0018	P	0.7
5	☐	250.000	248.438	12940.91	0.0035	P	1.1
6	☐	500.000	481.972	25385.96	0.0068	P	2.1
7	☐	1000.000	1009.361	51190.42	0.0143	P	3.5
8	☐			41.67	0.0000	P	9.1

$$y = 1.4161\text{E-}005 * x + 1.8723\text{E-}006$$

$$R = 0.9998$$

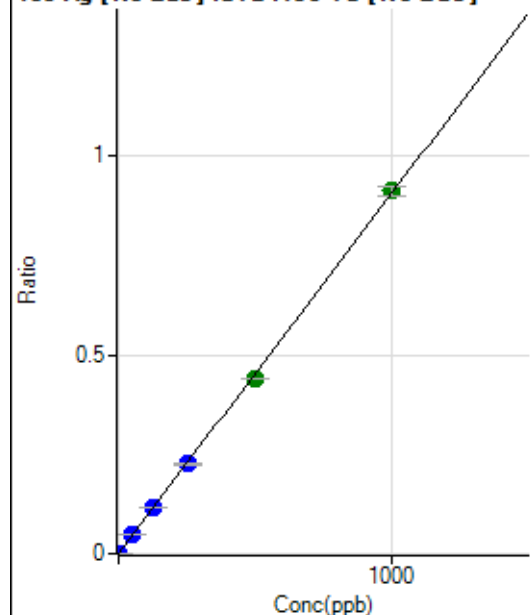
$$DL = 0.1412$$

$$BEC = 0.1322$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	12.2
2	☐	1.000	0.963	3080.99	0.0009	P	11.3
3	☐	50.000	51.198	165896.18	0.0464	P	1.2
4	☐	125.000	127.828	424643.12	0.1158	P	1.7
5	☐	250.000	248.584	828016.41	0.2253	P	0.5
6	☐	500.000	485.199	1634808.40	0.4396	A	0.6
7	☐	1000.000	1007.341	3269651.44	0.9128	A	2.3
8	☐			1866.85	0.0005	P	4.9

$$y = 9.0610\text{E-}004 * x + 9.6982\text{E-}006$$

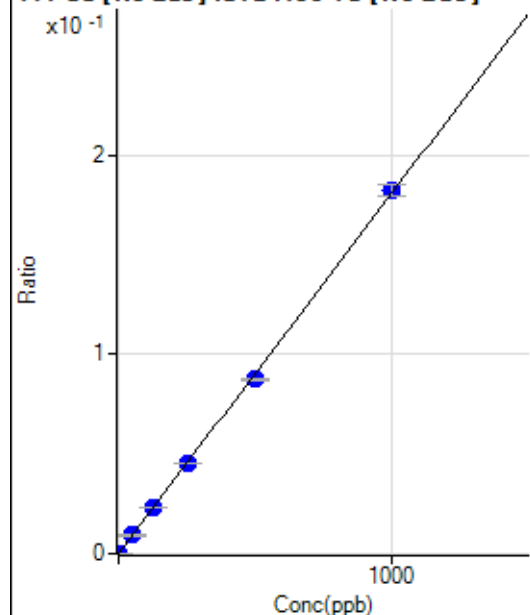
$$R = 0.9998$$

$$DL = 0.003915$$

$$BEC = 0.0107$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	324.06	0.0001	P	4.7
2	☐	1.000	1.054	970.61	0.0003	P	7.2
3	☐	50.000	50.448	32919.74	0.0092	P	1.5
4	☐	125.000	126.987	84481.95	0.0230	P	1.2
5	☐	250.000	248.943	165757.55	0.0451	P	0.5
6	☐	500.000	484.703	326172.80	0.0877	P	1.2
7	☐	1000.000	1007.642	652698.21	0.1823	P	3.1
8	☐			568.51	0.0002	P	15.5

$$y = 1.8079E-004 * x + 8.7152E-005$$

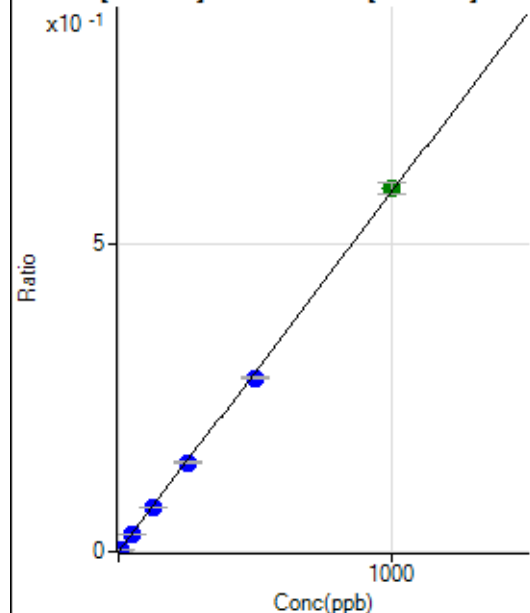
$$R = 0.9998$$

$$DL = 0.06838$$

$$BEC = 0.4821$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	188.90	0.0001	P	16.0
2	☐	5.000	4.713	9826.04	0.0028	P	6.7
3	☐	50.000	49.692	104284.64	0.0292	P	0.4
4	☐	125.000	124.350	267291.38	0.0729	P	1.4
5	☐	250.000	246.954	532065.42	0.1448	P	1.5
6	☐	500.000	483.504	1053685.84	0.2834	P	0.6
7	☐	1000.000	1009.108	2117773.03	0.5913	A	3.2
8	☐			1100.08	0.0003	P	1.2

$$y = 5.8594E-004 * x + 5.0670E-005$$

$$R = 0.9998$$

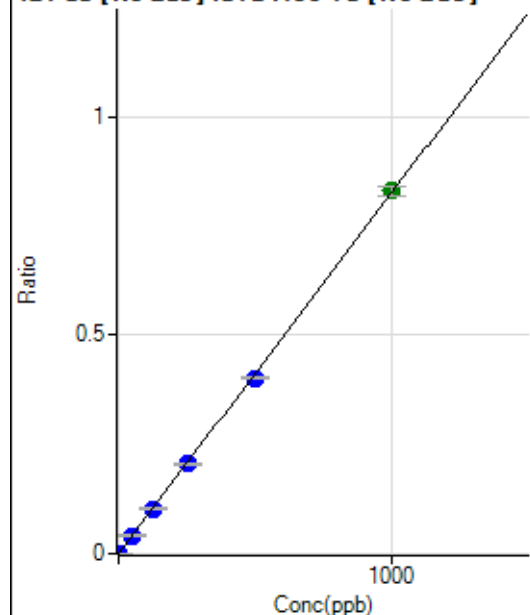
$$DL = 0.0416$$

$$BEC = 0.08648$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	98.6
2	☐	2.000	1.954	5617.95	0.0016	P	11.2
3	☐	50.000	50.347	148352.09	0.0415	P	1.6
4	☐	125.000	125.080	377887.54	0.1031	P	0.6
5	☐	250.000	248.372	752368.01	0.2047	P	1.0
6	☐	500.000	487.891	1495106.45	0.4021	P	0.7
7	☐	1000.000	1006.434	2970402.86	0.8294	A	2.6
8	☐			2530.86	0.0007	P	1.4

$$y = 8.2407\text{E-}004 * x + 2.2401\text{E-}006$$

$$R = 0.9999$$

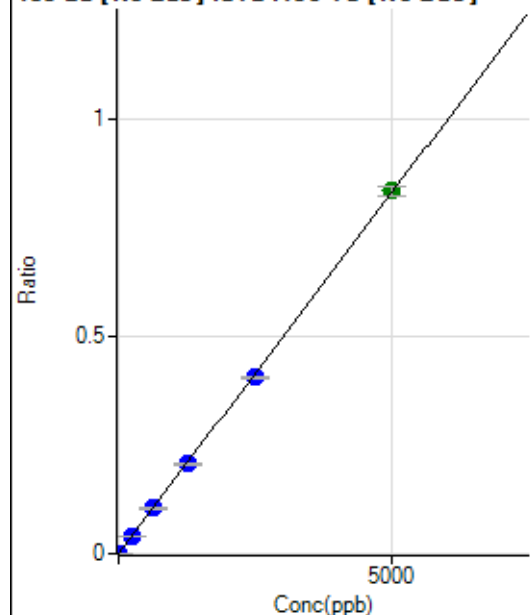
$$DL = 0.008041$$

$$BEC = 0.002718$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	2.5
2	☐	10.000	9.492	5523.50	0.0016	P	12.2
3	☐	250.000	250.144	148710.98	0.0416	P	1.4
4	☐	625.000	627.510	382486.66	0.1043	P	1.0
5	☐	1250.000	1246.956	762044.94	0.2073	P	1.7
6	☐	2500.000	2446.092	1512275.50	0.4067	P	0.8
7	☐	5000.000	5027.395	2993496.53	0.8358	A	2.5
8	☐			5515.18	0.0015	P	6.8

$$y = 1.6625\text{E-}004 * x + 6.7217\text{E-}006$$

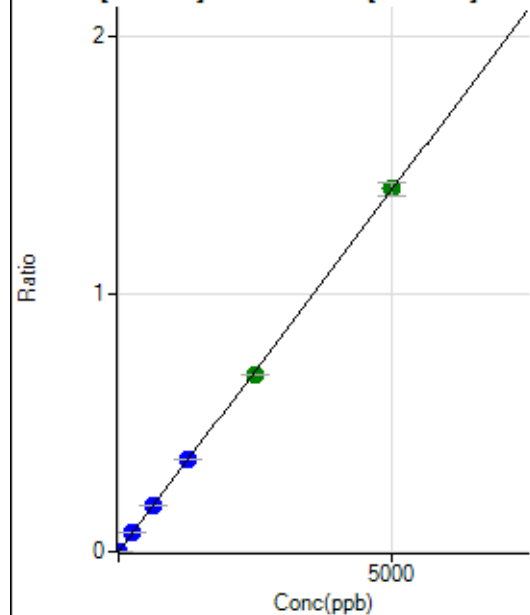
$$R = 0.9999$$

$$DL = 0.003038$$

$$BEC = 0.04043$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	24.6
2	☐	10.000	9.834	9656.48	0.0028	P	7.9
3	☐	250.000	255.374	255944.44	0.0716	P	1.0
4	☐	625.000	646.018	663822.82	0.1811	P	1.6
5	☐	1250.000	1278.609	1317418.20	0.3584	P	1.0
6	☐	2500.000	2444.200	2547487.25	0.6851	A	0.2
7	☐	5000.000	5017.852	5035804.54	1.4064	A	3.9
8	☐			9892.77	0.0027	P	2.7

$$y = 2.8028E-004 * x + 9.6665E-006$$

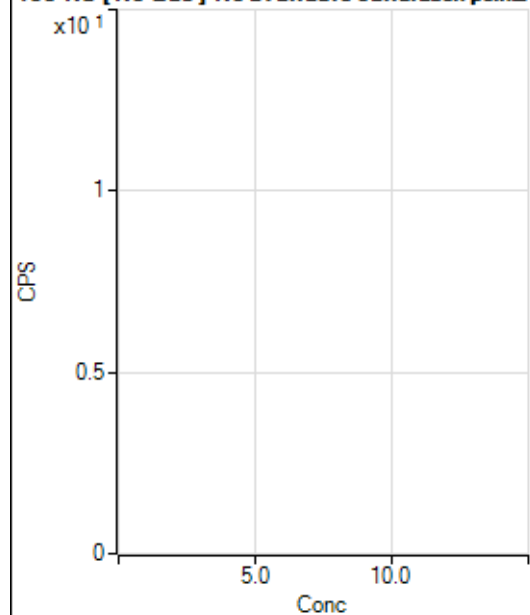
$$R = 0.9999$$

$$DL = 0.02549$$

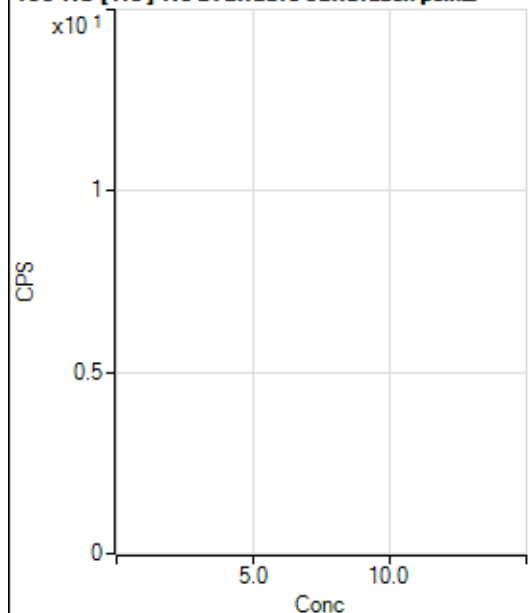
$$BEC = 0.03449$$

Weight: <None>

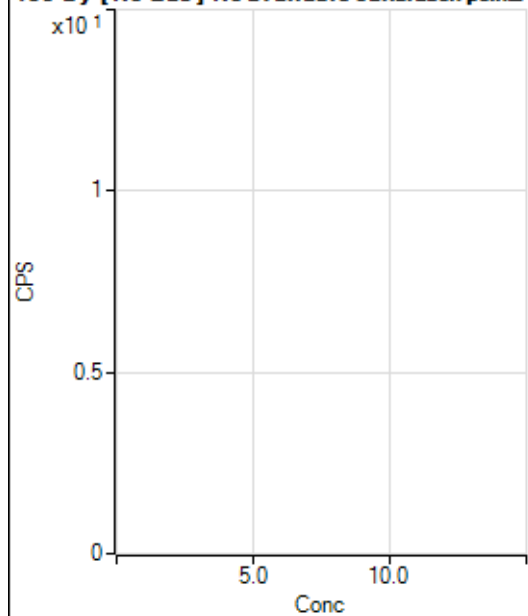
Min Conc: 0

150 Nd [No Gas] No available calibration points

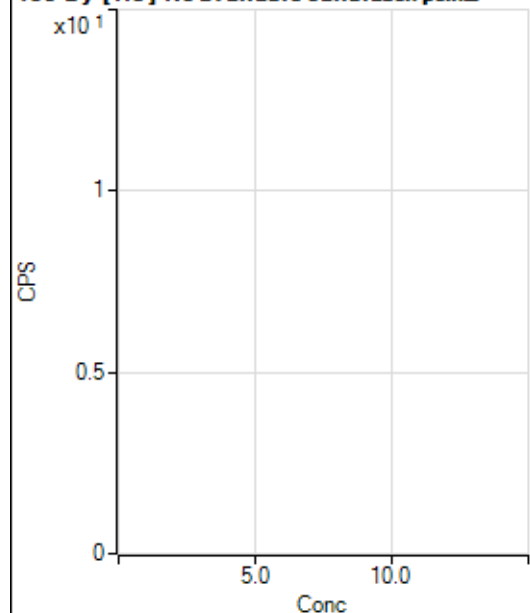
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			4.45		P	86.6
3	☐			20.00		P	88.2
4	☐			13.33		P	50.0
5	☐			33.33		P	72.1
6	☐			66.67		P	30.0
7	☐			124.45		P	18.8
8	☐			15.56		P	89.2

150 Nd [He] No available calibration points

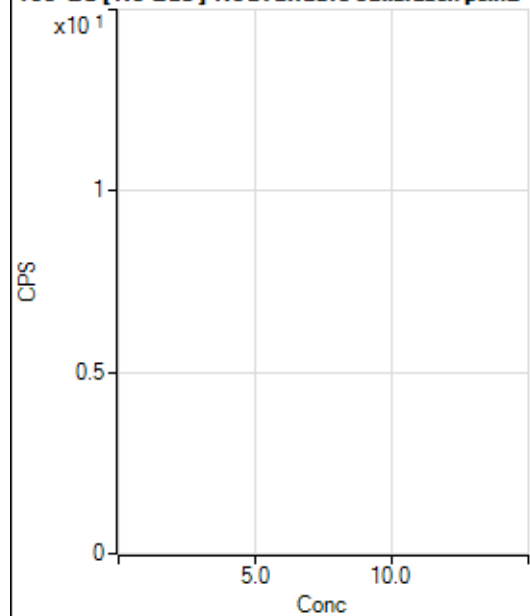
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			2.22		P	86.6
3	☐			2.22		P	173.2
4	☐			1.11		P	173.2
5	☐			2.22		P	86.6
6	☐			7.78		P	65.5
7	☐			14.45		P	26.7
8	☐			4.44		P	43.4

156 Dy [No Gas] No available calibration points

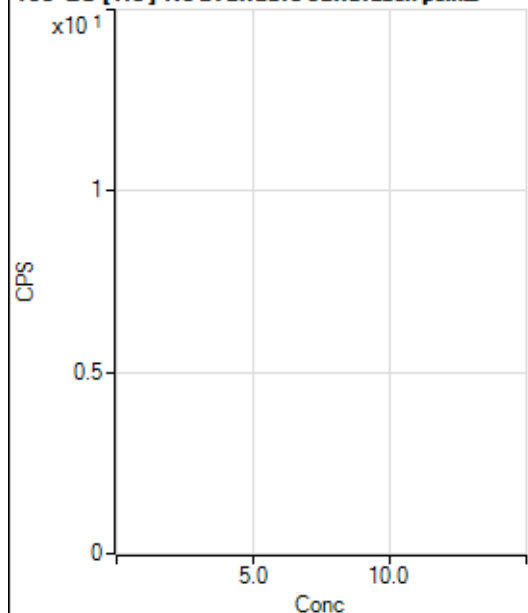
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	78.1
2	☐			13.89		P	124.9
3	☐			13.89		P	124.9
4	☐			16.67		P	132.3
5	☐			19.44		P	49.5
6	☐			61.11		P	20.8
7	☐			75.00		P	40.1
8	☐			138.89		P	30.2

156 Dy [He] No available calibration points

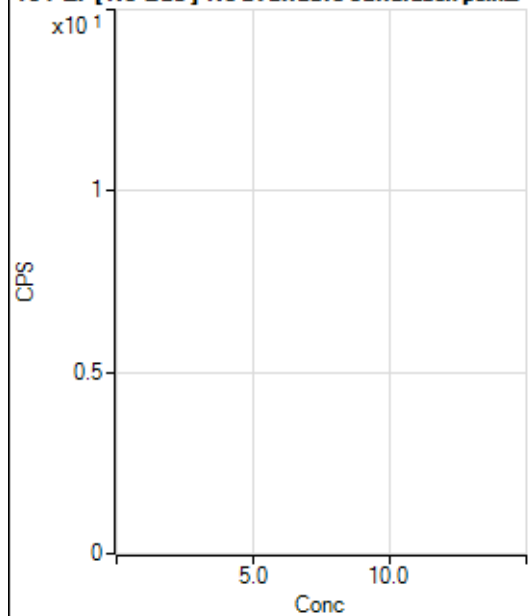
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			7.78		P	65.5
3	☐			2.22		P	86.6
4	☐			8.89		P	21.6
5	☐			6.67		P	50.0
6	☐			18.89		P	20.4
7	☐			23.33		P	62.3
8	☐			113.33		P	10.2

160 Gd [No Gas] Noavailable calibration poin_

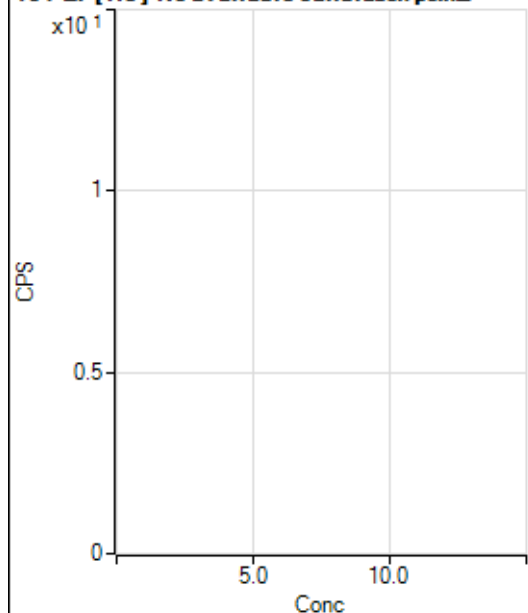
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			66.67		P	37.5
2	☐			36.11		P	13.3
3	☐			52.78		P	18.2
4	☐			61.12		P	34.3
5	☐			61.11		P	20.8
6	☐			91.67		P	39.6
7	☐			72.22		P	6.7
8	☐			186.12		P	17.0

160 Gd [He] No available calibration points

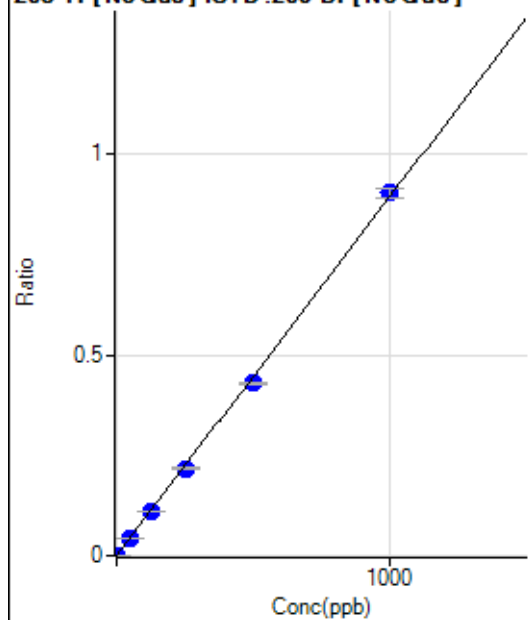
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14.44		P	13.4
2	☐			12.22		P	15.7
3	☐			18.89		P	27.0
4	☐			31.11		P	40.6
5	☐			17.78		P	28.6
6	☐			25.55		P	27.1
7	☐			57.78		P	3.3
8	☐			104.44		P	51.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.45		P	107.9
2	☐			33.33		P	66.2
3	☐			25.00		P	0.0
4	☐			30.55		P	68.6
5	☐			22.22		P	21.6
6	☐			33.33		P	43.3
7	☐			38.89		P	53.9
8	☐			36.11		P	35.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.66		P	86.6
2	☐			8.89		P	78.1
3	☐			8.89		P	43.3
4	☐			5.56		P	34.7
5	☐			13.33		P	66.2
6	☐			10.00		P	66.7
7	☐			13.33		P	66.2
8	☐			16.66		P	34.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	33.1
2	☐	1.000	0.933	1586.26	0.0009	P	19.6
3	☐	50.000	48.158	83274.71	0.0430	P	0.9
4	☐	125.000	121.965	216717.73	0.1089	P	1.2
5	☐	250.000	242.147	427374.98	0.2161	P	1.6
6	☐	500.000	481.129	842820.04	0.4294	P	0.8
7	☐	1000.000	1011.870	1707344.11	0.9030	P	2.7
8	☐			1213.98	0.0006	P	9.0

$$y = 8.9238E-004 * x + 2.1497E-005$$

$$R = 0.9997$$

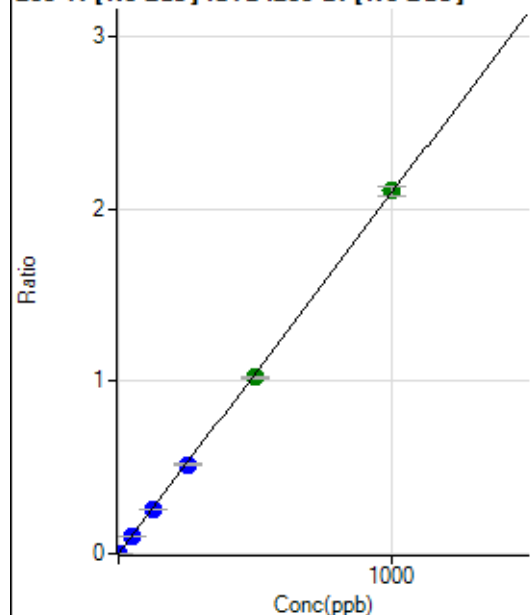
$$DL = 0.0239$$

$$BEC = 0.02409$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	57.6
2	☐	1.000	0.946	3725.64	0.0020	P	10.6
3	☐	50.000	48.918	198245.75	0.1024	P	0.9
4	☐	125.000	122.991	512283.35	0.2573	P	0.8
5	☐	250.000	246.827	1021248.92	0.5164	P	2.0
6	☐	500.000	489.451	2009960.14	1.0240	A	1.4
7	☐	1000.000	1006.373	3980861.33	2.1055	A	2.8
8	☐			2986.56	0.0016	P	4.8

$$y = 0.0021 * x + 1.5879E-005$$

$$R = 0.9999$$

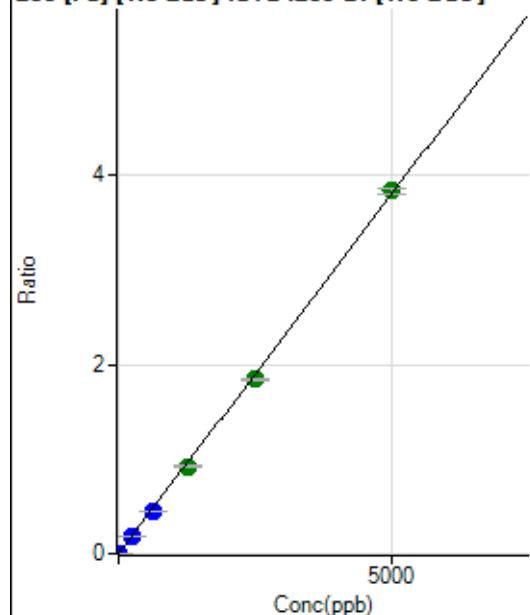
$$DL = 0.01312$$

$$BEC = 0.007589$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	233.34	0.0001	P	2.7
2	☐	1.000	0.850	1427.89	0.0008	P	15.0
3	☐	250.000	239.986	353354.80	0.1825	P	1.3
4	☐	625.000	595.632	901153.92	0.4527	P	0.3
5	☐	1250.000	1214.452	1824997.09	0.9228	A	1.2
6	☐	2500.000	2429.172	3622851.59	1.8457	A	0.8
7	☐	5000.000	5048.473	7253471.92	3.8358	A	1.7
8	☐			7457.82	0.0039	P	5.6

$$y = 7.5976E-004 * x + 1.2073E-004$$

$$R = 0.9998$$

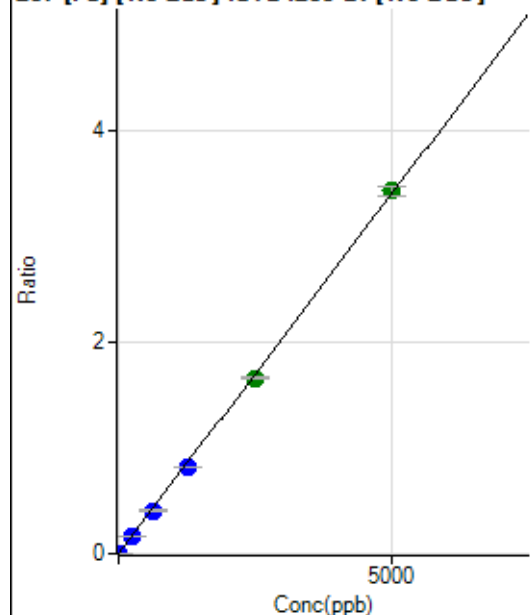
$$DL = 0.0128$$

$$BEC = 0.1589$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	179.64	0.0001	P	24.8
2	☐	1.000	0.937	1366.77	0.0007	P	7.9
3	☐	250.000	238.488	314885.12	0.1626	P	1.7
4	☐	625.000	600.402	814597.38	0.4092	P	0.6
5	☐	1250.000	1202.218	1620112.30	0.8192	P	1.8
6	☐	2500.000	2443.785	3268625.10	1.6652	A	0.3
7	☐	5000.000	5043.704	6498229.89	3.4367	A	2.6
8	☐			6655.55	0.0035	P	4.2

$$y = 6.8137E-004 * x + 9.2758E-005$$

$$R = 0.9999$$

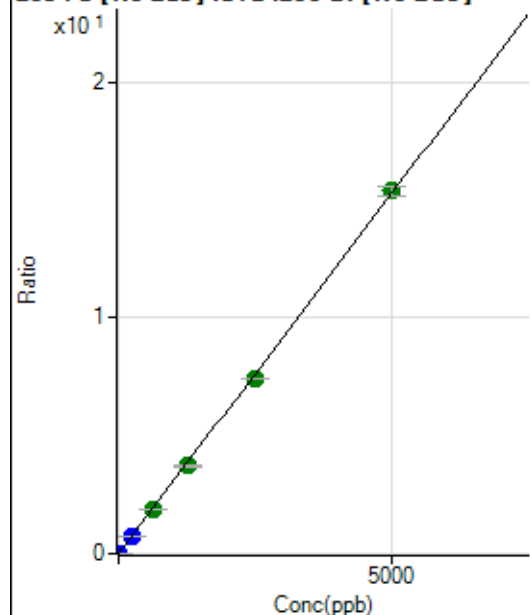
$$DL = 0.1012$$

$$BEC = 0.1361$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	864.84	0.0004	P	9.5
2	☐	1.000	0.901	5959.93	0.0032	P	11.7
3	☐	250.000	240.663	1423233.72	0.7349	P	0.8
4	☐	625.000	607.518	3691680.38	1.8544	A	0.5
5	☐	1250.000	1220.055	7364000.34	3.7236	A	1.2
6	☐	2500.000	2440.170	14617742.37	7.4470	A	0.3
7	☐	5000.000	5040.054	29083621.26	15.3810	A	2.6
8	☐			30051.46	0.0158	P	3.0

$$y = 0.0031 * x + 4.4733E-004$$

$$R = 0.9999$$

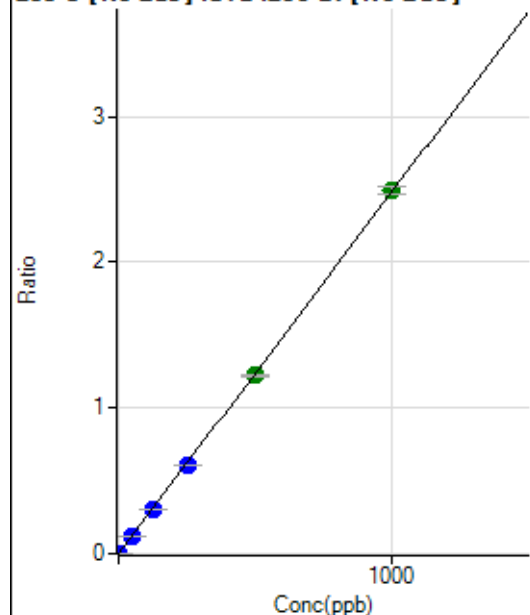
$$DL = 0.04166$$

$$BEC = 0.1466$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	115.4
2	☐	1.000	0.924	4281.39	0.0023	P	10.8
3	☐	50.000	47.611	228395.16	0.1179	P	0.9
4	☐	125.000	121.931	601173.73	0.3020	P	1.8
5	☐	250.000	245.864	1204315.77	0.6090	P	1.2
6	☐	500.000	493.522	2399272.36	1.2224	A	1.4
7	☐	1000.000	1004.776	4706009.57	2.4887	A	2.3
8	☐			736.17	0.0004	P	10.2

$$y = 0.0025 * x + 5.7586E-006$$

$$R = 1.0000$$

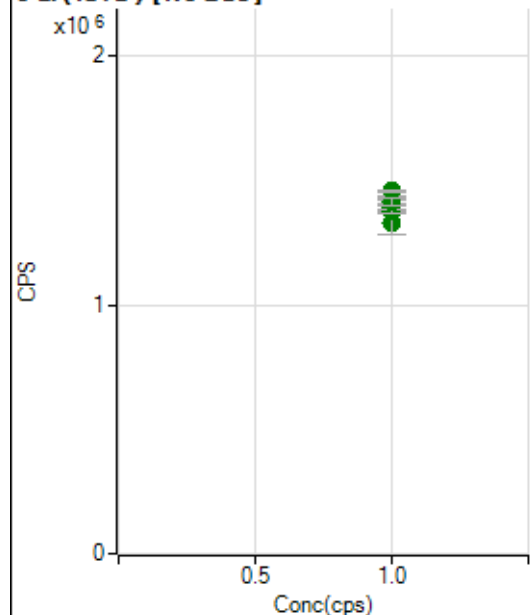
$$DL = 0.008052$$

$$BEC = 0.002325$$

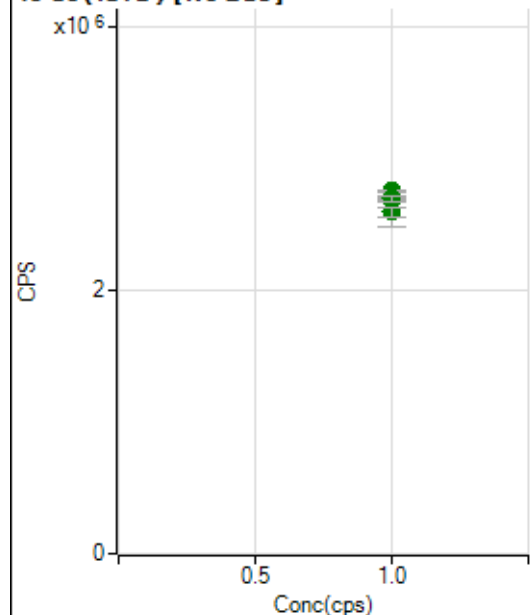
Weight: <None>

Min Conc: 0

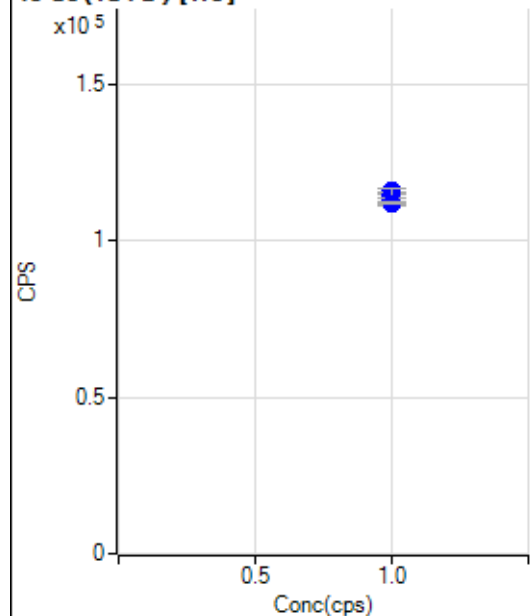
6 Li (ISTD) [No Gas]



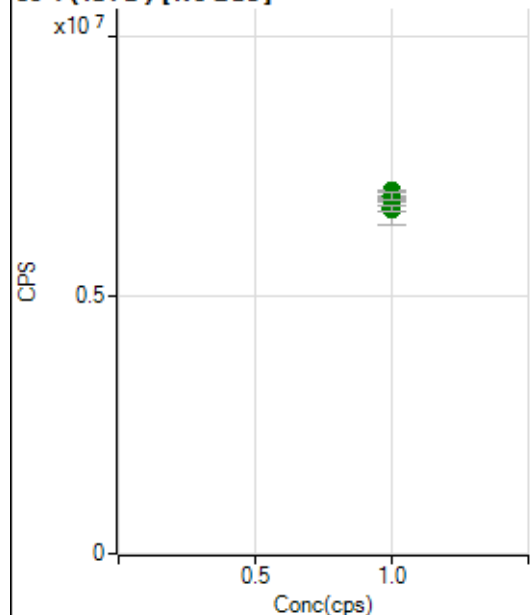
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1391636.46		A	2.6
2	☐	1.000		1328394.06		A	6.6
3	☐	1.000		1393391.21		A	2.1
4	☐	1.000		1430495.42		A	1.1
5	☐	1.000		1410253.30		A	1.2
6	☐	1.000		1457881.58		A	0.2
7	☐	1.000		1374884.76		A	1.0
8	☐	1.000		1411949.75		A	2.1

45 Sc (ISTD) [No Gas]

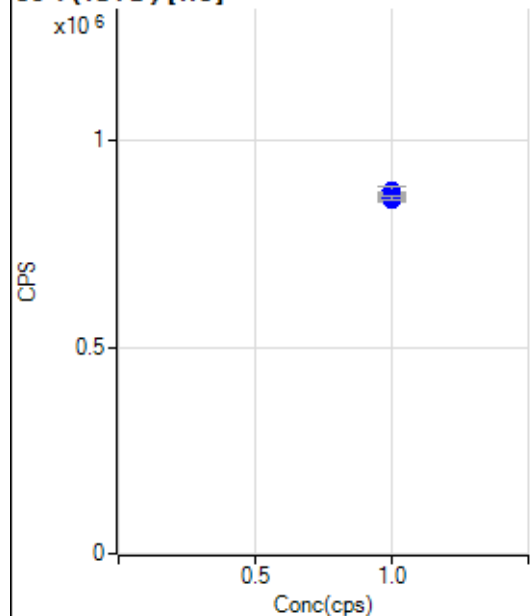
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2684719.52		A	0.8
2	☐	1.000		2594781.80		A	8.9
3	☐	1.000		2680488.24		A	0.2
4	☐	1.000		2752405.79		A	0.3
5	☐	1.000		2701285.76		A	0.2
6	☐	1.000		2679048.31		A	0.2
7	☐	1.000		2593309.23		A	2.8
8	☐	1.000		2694058.10		A	1.3

45 Sc (ISTD) [He]

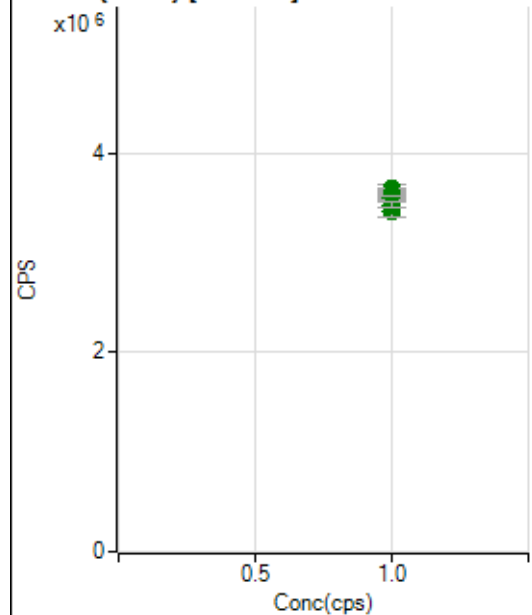
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		115792.93		P	1.4
2	☐	1.000		114467.95		P	1.3
3	☐	1.000		115804.00		P	1.3
4	☐	1.000		114417.80		P	1.3
5	☐	1.000		111767.99		P	1.5
6	☐	1.000		112864.02		P	0.7
7	☐	1.000		114919.32		P	2.5
8	☐	1.000		111974.12		P	0.7

89 Y (ISTD) [No Gas]

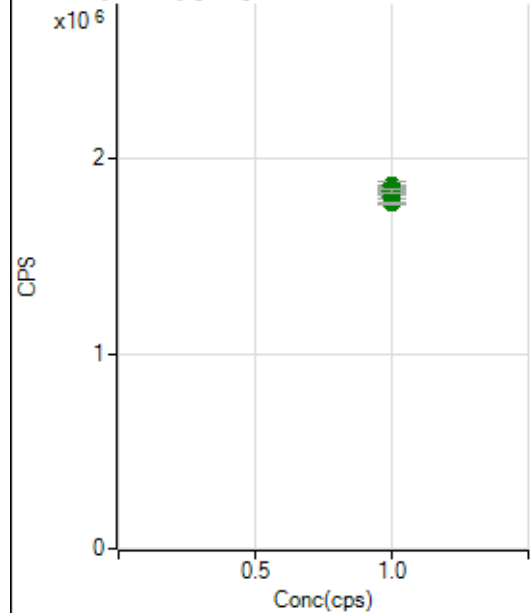
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6899809.06		A	0.9
2	☐	1.000		6690885.60		A	9.9
3	☐	1.000		6828857.82		A	1.2
4	☐	1.000		7017616.14		A	0.2
5	☐	1.000		6846188.65		A	0.5
6	☐	1.000		6885467.12		A	0.5
7	☐	1.000		6674523.23		A	2.1
8	☐	1.000		6920162.19		A	2.1

89 Y (ISTD) [He]

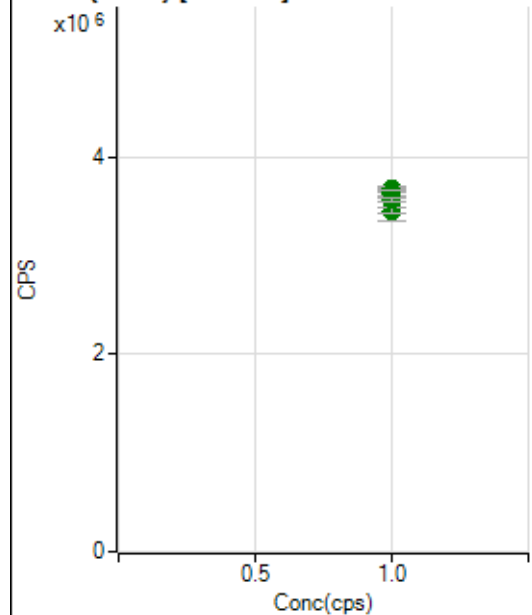
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		862070.17		P	0.8
2	☐	1.000		857384.01		P	0.2
3	☐	1.000		872595.82		P	1.0
4	☐	1.000		866613.37		P	0.9
5	☐	1.000		861201.71		P	0.5
6	☐	1.000		859091.72		P	1.3
7	☐	1.000		878505.37		P	2.1
8	☐	1.000		861724.26		P	0.6

103 Rh (ISTD) [No Gas]

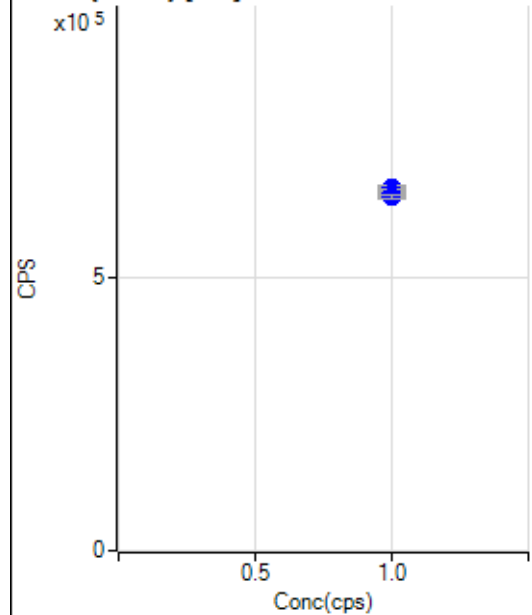
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3630177.64		A	0.8
2	☐	1.000		3519980.68		A	9.4
3	☐	1.000		3562936.02		A	0.5
4	☐	1.000		3639469.31		A	0.9
5	☐	1.000		3582685.02		A	0.7
6	☐	1.000		3549958.54		A	1.5
7	☐	1.000		3409949.54		A	3.1
8	☐	1.000		3481151.20		A	1.5

103 Rh (ISTD) [He]

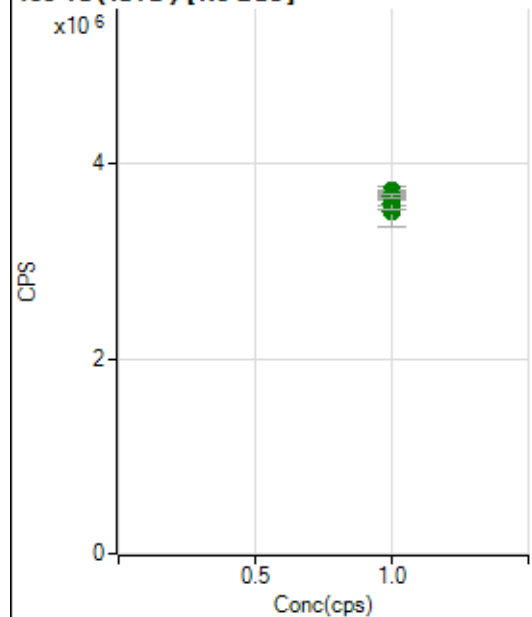
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1839622.40		A	2.0
2	☐	1.000		1829678.67		A	1.3
3	☐	1.000		1858864.45		A	2.4
4	☐	1.000		1846196.67		A	0.6
5	☐	1.000		1827671.48		A	2.0
6	☐	1.000		1802772.47		A	0.8
7	☐	1.000		1831284.07		A	1.1
8	☐	1.000		1770223.27		A	0.8

115 In (ISTD) [No Gas]

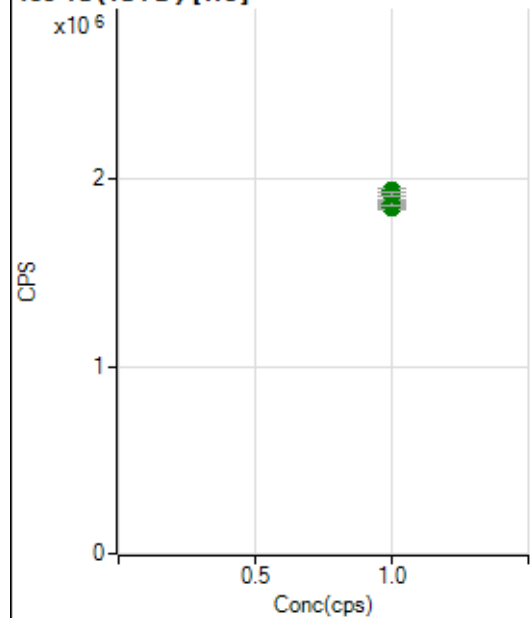
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3641196.98		A	2.0
2	☐	1.000		3493058.44		A	8.7
3	☐	1.000		3589818.93		A	0.4
4	☐	1.000		3675006.49		A	1.1
5	☐	1.000		3623107.11		A	0.9
6	☐	1.000		3634574.92		A	1.3
7	☐	1.000		3455605.42		A	1.6
8	☐	1.000		3567390.61		A	1.0

115 In (ISTD) [He]

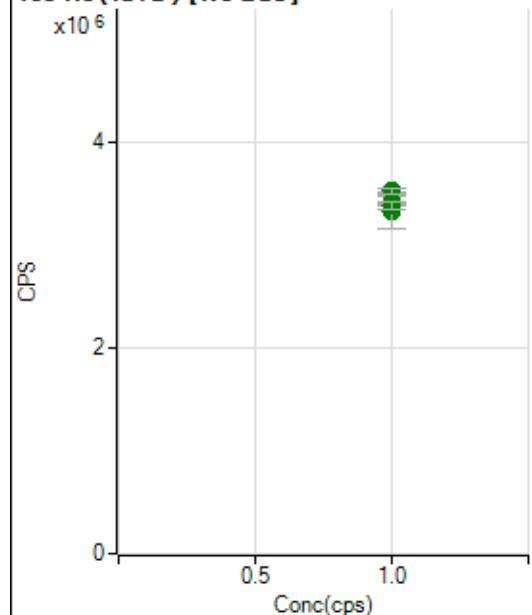
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		661564.93		P	0.9
2	☐	1.000		653031.91		P	0.8
3	☐	1.000		661279.31		P	1.0
4	☐	1.000		664291.47		P	1.1
5	☐	1.000		653504.46		P	0.9
6	☐	1.000		649432.29		P	0.4
7	☐	1.000		655235.16		P	2.1
8	☐	1.000		647416.82		P	0.8

159 Tb (ISTD) [No Gas]

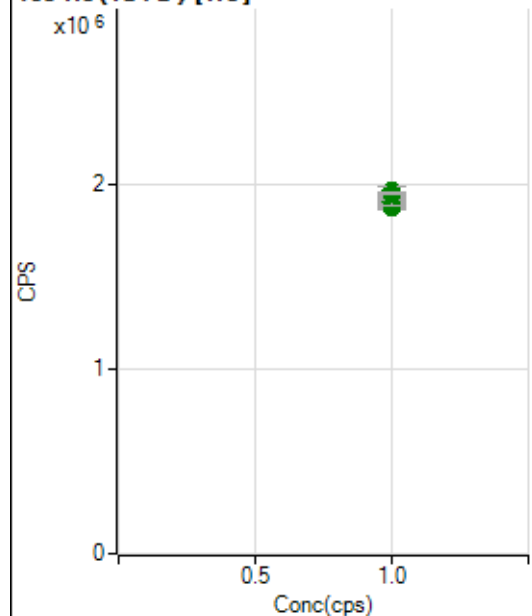
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3720851.33		A	2.5
2	☐	1.000		3506197.48		A	8.2
3	☐	1.000		3575373.63		A	0.2
4	☐	1.000		3666096.54		A	0.6
5	☐	1.000		3676024.87		A	1.0
6	☐	1.000		3718528.87		A	0.5
7	☐	1.000		3583028.11		A	2.7
8	☐	1.000		3668181.93		A	1.5

159 Tb (ISTD) [He]

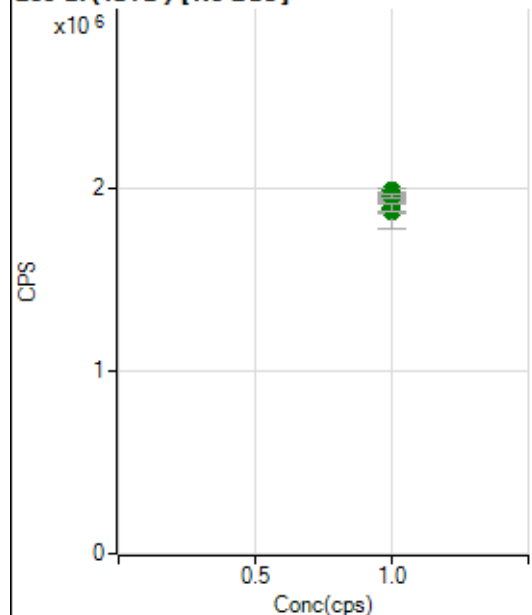
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1859332.19		A	1.1
2	☐	1.000		1849786.34		A	1.2
3	☐	1.000		1870847.18		A	1.6
4	☐	1.000		1938875.98		A	1.0
5	☐	1.000		1870278.56		A	0.7
6	☐	1.000		1875123.53		A	1.5
7	☐	1.000		1931252.77		A	2.0
8	☐	1.000		1923891.71		A	1.4

165 Ho (ISTD) [No Gas]

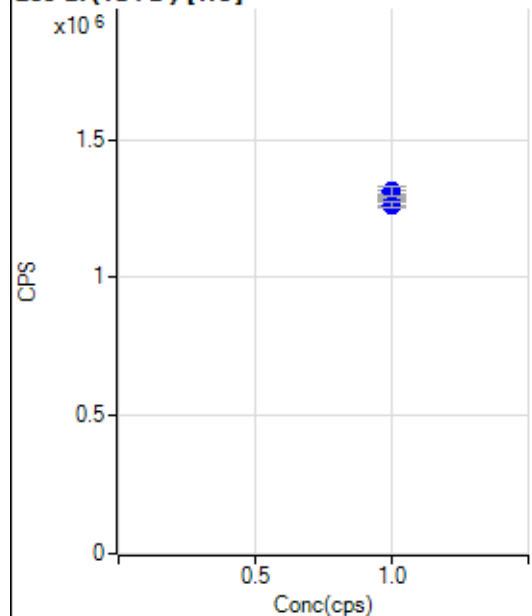
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3402440.09		A	0.9
2	☐	1.000		3322420.80		A	9.6
3	☐	1.000		3393113.90		A	0.4
4	☐	1.000		3514446.60		A	1.7
5	☐	1.000		3489808.93		A	1.0
6	☐	1.000		3494908.72		A	1.4
7	☐	1.000		3388359.76		A	2.6
8	☐	1.000		3529024.25		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1883422.79		A	0.7
2	☐	1.000		1866367.96		A	1.0
3	☐	1.000		1900393.69		A	0.4
4	☐	1.000		1927793.24		A	0.7
5	☐	1.000		1886392.35		A	0.4
6	☐	1.000		1898166.55		A	1.2
7	☐	1.000		1961450.01		A	2.9
8	☐	1.000		1946966.63		A	0.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1932213.81		A	1.4
2	☐	1.000		1878822.63		A	9.6
3	☐	1.000		1936746.21		A	0.4
4	☐	1.000		1990822.70		A	1.0
5	☐	1.000		1977789.40		A	1.0
6	☐	1.000		1962922.16		A	0.9
7	☐	1.000		1891585.93		A	2.7
8	☐	1.000		1901379.62		A	2.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1285422.45		P	1.1
2	☐	1.000		1270677.66		P	1.2
3	☐	1.000		1300977.99		P	1.8
4	☐	1.000		1311227.52		P	1.1
5	☐	1.000		1307482.97		P	1.6
6	☐	1.000		1289880.76		P	0.7
7	☐	1.000		1313607.62		P	2.6
8	☐	1.000		1263539.78		P	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8111420MS.b
Acq. Date-Time 2020-11-15 10:11:43
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		2464	24635.70			0.961	5.000
24		29232	292321.68			2.290	5.000
25		3867	38665.50			2.158	5.000
26		4472	44716.82			2.234	5.000
59		15748	157480.10			0.943	5.000
113		2168	21683.89			1.201	5.000
115		7009	70089.56			1.397	5.000
206		2090	20903.98			1.145	5.000
207		1746	17463.29			0.935	5.000
208		4316	43155.57			0.878	5.000
220		1	10.10			18.655	

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

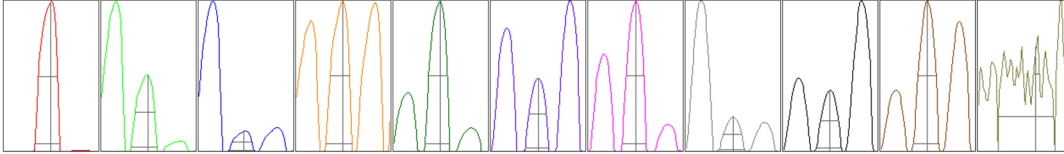
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2437	2473	2441	2476	2491
24	30308	28899	28539	29063	29353
25	4007	3844	3786	3832	3864
26	4632	4434	4362	4448	4482
59	15659	15738	15586	15779	15978
113	2158	2189	2130	2171	2194
115	7165	7019	6962	6997	6902
206	2117	2064	2069	2092	2110
207	1754	1726	1739	1744	1769
208	4314	4278	4282	4334	4369

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4280.11	9.00	8.90 - 9.10	
24	50651.85	24.00	23.90 - 24.10	
25	6511.25	24.95	24.90 - 25.10	
26	7716.76	26.00	25.90 - 26.10	
59	28215.43	59.00	58.90 - 59.10	
113	4139.18	113.05	112.90 - 113.10	
115	13262.19	115.05	114.90 - 115.10	
206	3843.45	206.05	205.90 - 206.10	
207	3212.59	207.00	206.90 - 207.10	
208	7981.20	208.00	207.90 - 208.10	
220	1.35	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.781	0.900	
24	0.62	0.828	0.900	
25	0.62	0.780	0.900	
26	0.62	0.827	0.900	
59	0.58	0.779	0.900	
113	0.55	0.731	0.900	
115	0.55	0.763	0.900	
206	0.57	0.807	0.900	
207	0.56	0.787	0.900	
208	0.57	0.798	0.900	
220	0.20	1.736		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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	10.3 V	Deflect	14.6 V
Extract 2	-235.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.2 mm
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EM

Discriminator	3.8 mV	Analog HV	2180 V	Pulse HV	1331 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3939	39389.71			1.118	
89		8848	88479.96			0.745	
205		6507	65070.06			1.299	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3950	3861	3962	3960	3962
89	8810	8752	8911	8875	8893
205	6544	6360	6541	6519	6571

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 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	10.3 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-235.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 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	122	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.8 mV	Analog HV	2180 V	Pulse HV	1331 V