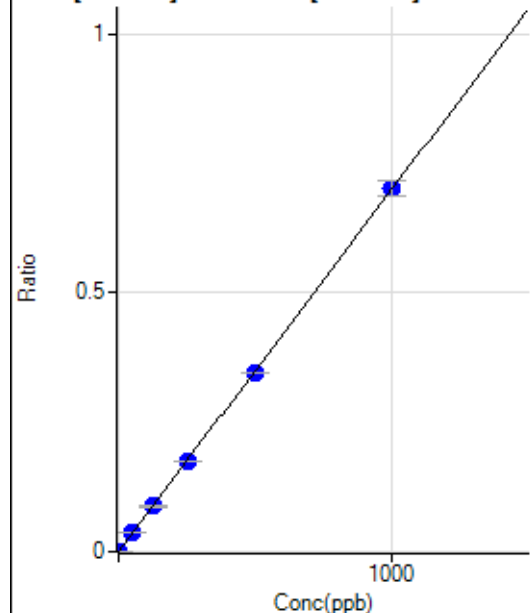


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8111020MS.b\
Analysis File: P8111020MS.batch.bin
DA Date-Time: 2020-11-12 14:59:59
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-11-10 12:41:01
2	004CALS.d	S01	2020-11-10 12:44:12
3	005CALS.d	S02	2020-11-10 12:47:21
4	006CALS.d	S03	2020-11-10 12:50:32
5	007CALS.d	S04	2020-11-10 12:53:40
6	008CALS.d	S05	2020-11-10 12:57:14
7	009CALS.d	S06	2020-11-10 13:00:13
8	010CALS.d	S07	2020-11-10 13:03:13
9	011CALS.d	S08	2020-11-10 13:06:11

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	89.32	0.0001	P	12.4
2	☐	0.100	0.080	145.97	0.0001	P	8.0
3	☐	1.000	0.969	756.54	0.0008	P	2.1
4	☐	50.000	52.284	35910.98	0.0366	P	2.5
5	☐	125.000	125.558	87776.43	0.0878	P	1.7
6	☐	250.000	247.981	177013.87	0.1734	P	0.5
7	☐	500.000	494.917	355009.30	0.3459	P	0.5
8	☐	1000.000	1002.862	707374.77	0.7008	P	4.3
9	☐			383.93	0.0004	P	3.7

$$y = 6.9875E-004 * x + 9.1073E-005$$

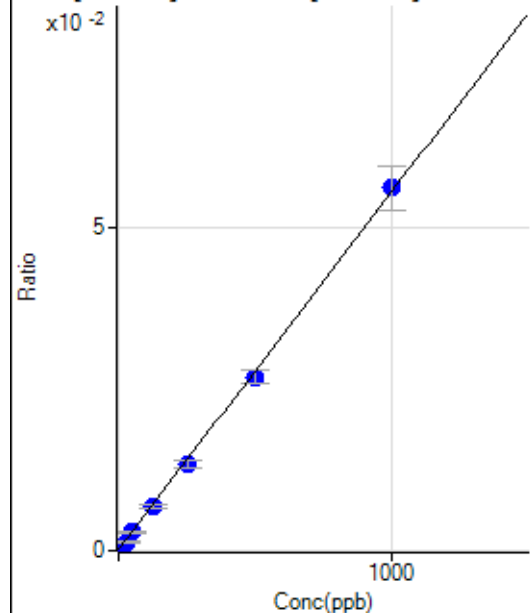
$$R = 1.0000$$

$$DL = 0.04852$$

$$BEC = 0.1303$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	159.30	0.0002	P	11.3
2	☐	2.500	2.246	284.62	0.0003	P	4.5
3	☐	25.000	20.964	1301.80	0.0013	P	6.5
4	☐	50.000	49.770	2859.72	0.0029	P	9.1
5	☐	125.000	122.652	6944.28	0.0069	P	8.0
6	☐	250.000	238.396	13640.97	0.0134	P	8.3
7	☐	500.000	483.411	27616.40	0.0269	P	8.6
8	☐	1000.000	1011.602	56585.31	0.0561	P	12.3
9	☐			9735.98	0.0093	P	10.0

$$y = 5.5335E-005 * x + 1.6209E-004$$

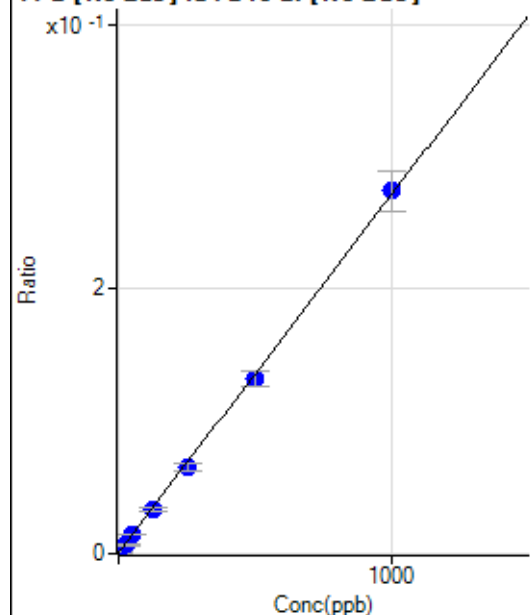
$$R = 0.9997$$

$$DL = 0.9908$$

$$BEC = 2.929$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	711.21	0.0007	P	0.5
2	☐	2.500	2.115	1287.14	0.0013	P	13.5
3	☐	25.000	21.875	6540.18	0.0066	P	9.4
4	☐	50.000	50.727	14172.70	0.0145	P	7.6
5	☐	125.000	123.102	34012.51	0.0340	P	8.0
6	☐	250.000	238.992	66805.95	0.0654	P	8.3
7	☐	500.000	484.861	135379.70	0.1319	P	8.7
8	☐	1000.000	1010.602	276407.96	0.2742	P	11.4
9	☐			46886.57	0.0449	P	9.6

$$y = 2.7060E-004 * x + 7.2427E-004$$

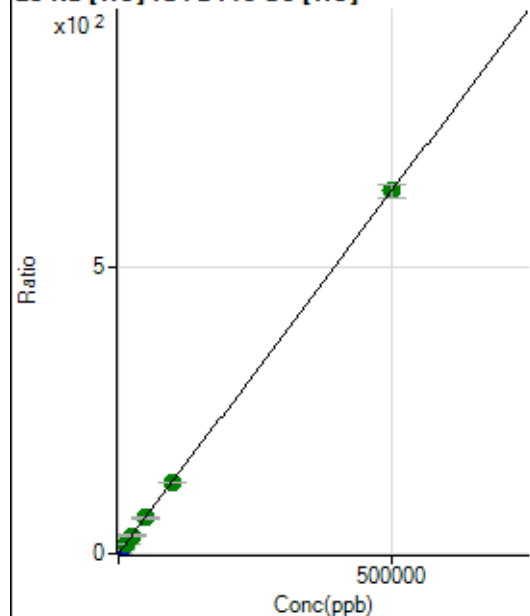
$$R = 0.9998$$

$$DL = 0.04371$$

$$BEC = 2.677$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34967.39	0.3956	P	2.7
2	☐	50.000	37.114	40258.92	0.4426	P	0.6
3	☐	500.000	475.134	90004.68	0.9967	P	2.7
4	☐	5000.000	5180.980	632280.54	6.9501	P	0.6
5	☐	12500.000	12675.952	1497003.09	16.4321	A	0.8
6	☐	25000.000	24720.516	2914467.10	31.6698	A	1.7
7	☐	50000.000	49140.044	5707768.49	62.5632	A	1.5
8	☐	100000.00	98512.987	11395905.81	125.0253	A	0.9
9	☐	500000.00	500391.19	56610253.35	633.4453	A	4.0

$$y = 0.0013 * x + 0.3956$$

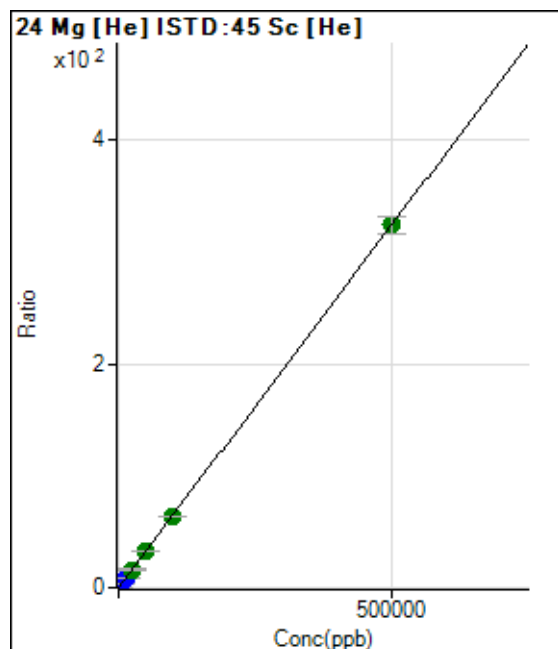
$$R = 1.0000$$

$$DL = 25.06$$

$$BEC = 312.7$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	541.69	0.0061	P	4.7
2	☐	50.000	44.941	3208.76	0.0353	P	2.3
3	☐	500.000	468.014	27969.13	0.3096	P	0.7
4	☐	5000.000	5205.949	307687.50	3.3822	P	0.6
5	☐	12500.000	12649.498	747862.48	8.2092	P	1.4
6	☐	25000.000	24974.603	1490905.05	16.2020	A	2.9
7	☐	50000.000	49686.580	2940173.38	32.2275	A	1.6
8	☐	100000.00	98368.615	5814890.67	63.7975	A	1.2
9	☐	500000.00	500353.12	28991314.54	324.4817	A	4.9

$$y = 6.4849\text{E-}004 * x + 0.0061$$

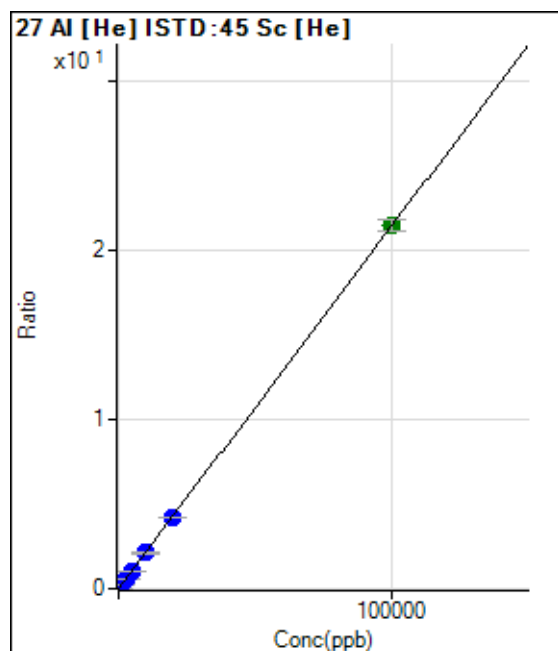
$$R = 1.0000$$

$$DL = 1.328$$

$$BEC = 9.452$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	355.38	0.0040	P	5.8
2	☒	2.000					
3	☐	20.000	19.014	730.76	0.0081	P	5.6
4	☐	1000.000	1008.849	20013.70	0.2200	P	0.1
5	☐	2500.000	2457.436	48295.87	0.5301	P	0.2
6	☐	5000.000	4876.147	96439.66	1.0479	P	1.2
7	☐	10000.000	9802.668	191830.47	2.1026	P	0.7
8	☐	20000.000	19540.003	381672.48	4.1872	P	0.4
9	☐	100000.00	100118.90	1916487.88	21.4378	A	3.1

$$y = 2.1408\text{E-}004 * x + 0.0040$$

$$R = 1.0000$$

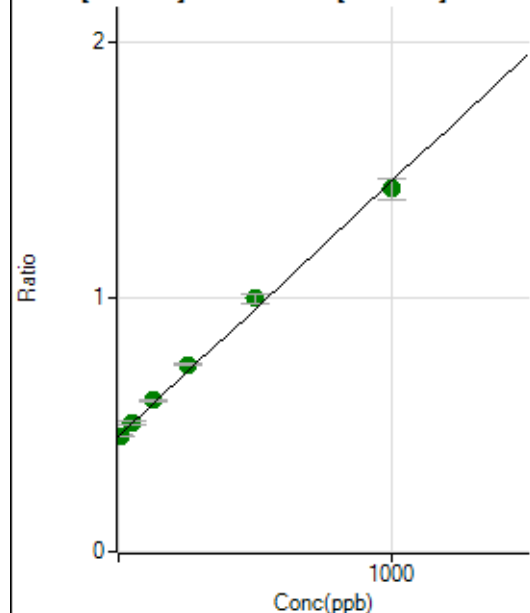
$$DL = 3.253$$

$$BEC = 18.77$$

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	1071391.55	0.4539	A	1.2
2	☐	1.000	2.245	1064261.65	0.4561	A	2.3
3	☐	10.000	-0.199	1077495.62	0.4537	A	1.1
4	☐	50.000	52.872	1195367.02	0.5068	A	1.9
5	☐	125.000	139.265	1408199.05	0.5933	A	1.7
6	☐	250.000	282.028	1764640.86	0.7364	A	0.5
7	☐	500.000	540.648	2428264.57	0.9954	A	3.7
8	☐	1000.000	969.843	3466897.80	1.4253	A	6.1
9	☐			1200476.60	0.4792	A	0.2

$$y = 0.0010 * x + 0.4539$$

$$R = 0.9980$$

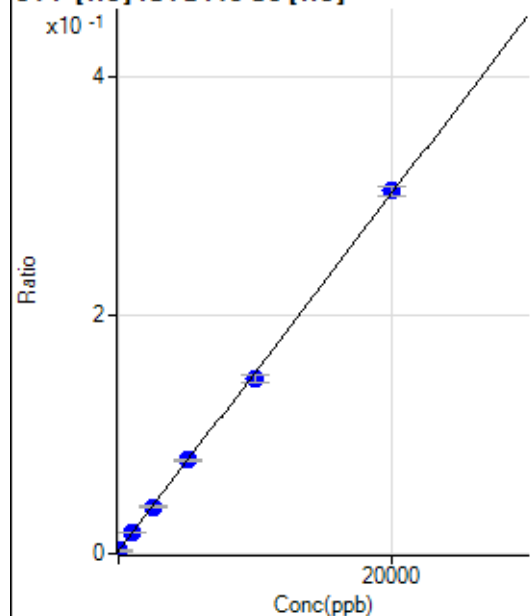
$$DL = 16.34$$

$$BEC = 453.1$$

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	4.724	213.90	0.0024	P	21.0
2	☐	0.000	4.531	219.45	0.0024	P	13.7
3	☐	0.000	-9.255	200.01	0.0022	P	30.8
4	☐	1000.000	1025.139	1608.47	0.0177	P	8.5
5	☐	2500.000	2473.336	3583.87	0.0393	P	2.9
6	☐	5000.000	5070.853	7196.39	0.0782	P	2.1
7	☐	10000.000	9662.926	13398.14	0.1469	P	4.5
8	☐	20000.000	20152.900	27685.22	0.3038	P	2.3
9	☐			200.01	0.0022	P	15.1

$$y = 1.4957E-005 * x + 0.0023$$

$$R = 0.9998$$

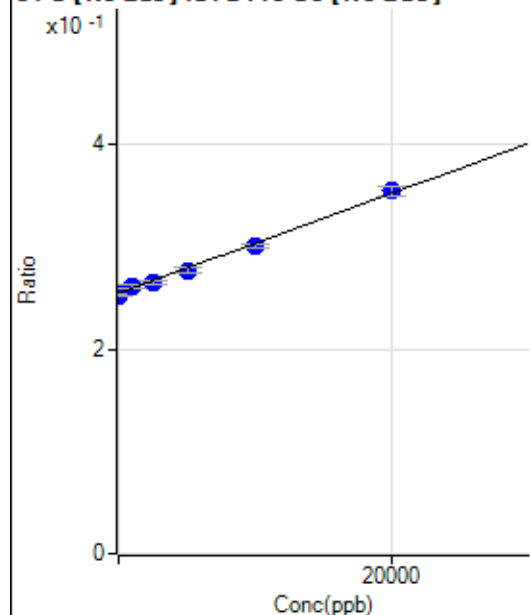
$$DL = 101.6$$

$$BEC = 156.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	272.488	605338.66	0.2564	P	1.2
2	☐	0.000	309.264	598769.62	0.2566	P	2.4
3	☐	0.000	-581.752	599117.96	0.2523	P	0.8
4	☐	1000.000	1203.042	615570.17	0.2610	P	1.2
5	☐	2500.000	2110.261	629895.64	0.2654	P	1.3
6	☐	5000.000	4573.338	664638.58	0.2774	P	2.6
7	☐	10000.000	9363.239	733651.46	0.3008	P	1.3
8	☐	20000.000	20463.611	863936.74	0.3550	P	2.5
9	☐			576607.79	0.2302	P	2.0

$$y = 4.8832\text{E-}006 * x + 0.2551$$

$$R = 0.9981$$

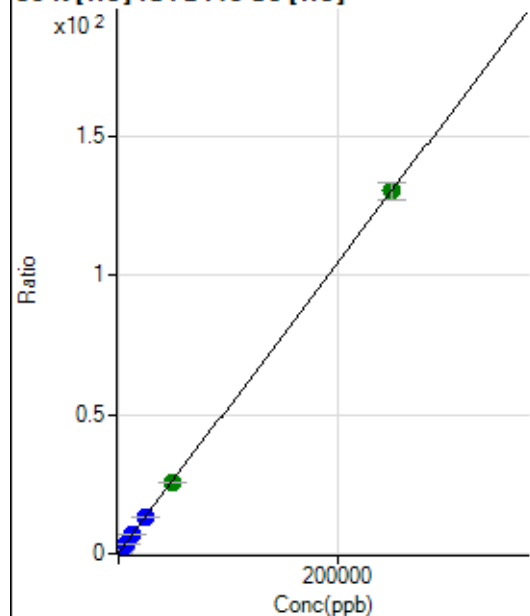
$$DL = 2294$$

$$BEC = 5.224\text{E+}04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	29088.26	0.3290	P	0.8
2	☒	50.000					
3	☐	500.000	456.375	51124.54	0.5661	P	2.0
4	☐	2500.000	2535.263	149734.99	1.6459	P	1.0
5	☐	6250.000	6262.334	326327.51	3.5819	P	0.3
6	☐	12500.000	12387.921	622513.05	6.7636	P	1.0
7	☐	25000.000	24816.111	1206057.17	13.2192	P	0.7
8	☐	50000.000	48687.232	2335158.47	25.6184	A	0.6
9	☐	250000.00	250285.97	11644499.83	130.3339	A	4.9

$$y = 5.1943\text{E-}004 * x + 0.3290$$

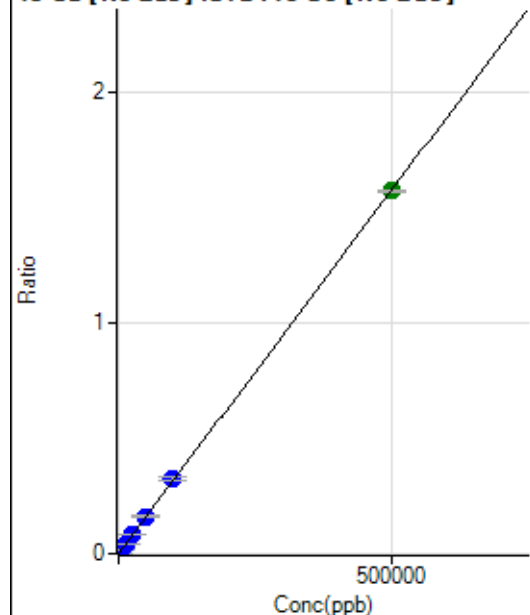
$$R = 1.0000$$

$$DL = 14.28$$

$$BEC = 633.5$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	295.39	0.0001	P	5.5
2	☐	50.000	50.828	664.52	0.0003	P	7.2
3	☐	500.000	475.026	3845.88	0.0016	P	2.1
4	☐	5000.000	5293.297	39569.51	0.0168	P	1.5
5	☐	12500.000	12942.713	96926.01	0.0408	P	1.4
6	☐	25000.000	25689.943	193919.62	0.0809	P	1.8
7	☐	50000.000	51334.336	394141.14	0.1616	P	1.0
8	☐	100000.00	102915.66	788003.35	0.3239	P	3.6
9	☐	500000.00	499234.96	3934914.37	1.5706	A	0.4

$$y = 3.1457E-006 * x + 1.2509E-004$$

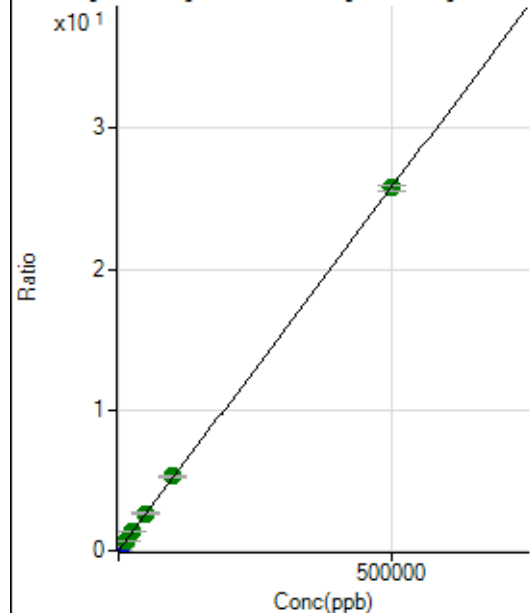
$$R = 1.0000$$

$$DL = 6.546$$

$$BEC = 39.77$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19983.89	0.0085	P	0.9
2	☐	50.000	50.225	25800.26	0.0111	P	2.2
3	☐	500.000	478.766	78771.98	0.0332	P	1.4
4	☐	5000.000	5389.999	675931.84	0.2866	P	1.2
5	☐	12500.000	12803.288	1588061.48	0.6691	A	0.7
6	☐	25000.000	25795.081	3208768.99	1.3394	A	2.5
7	☐	50000.000	51222.768	6465876.98	2.6514	A	1.9
8	☐	100000.00	102425.10	12880933.97	5.2932	A	2.3
9	☐	500000.00	499341.48	64569612.24	25.7727	A	1.5

$$y = 5.1596E-005 * x + 0.0085$$

$$R = 1.0000$$

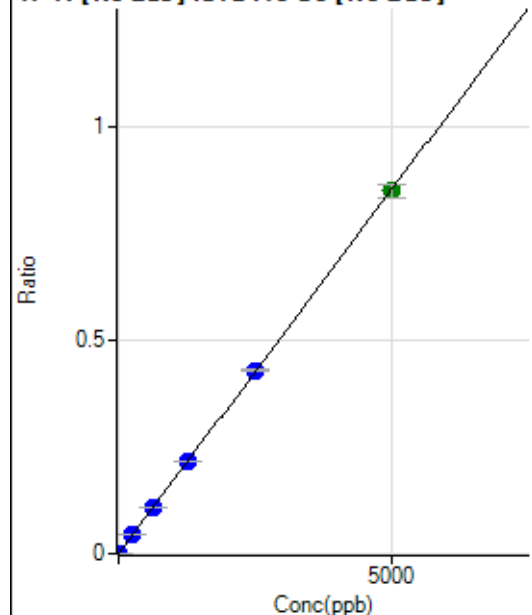
$$DL = 4.3$$

$$BEC = 164.1$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	408.35	0.0002	P	20.6
2	☐	0.500	0.375	552.80	0.0002	P	6.9
3	☐	5.000	4.978	2430.84	0.0010	P	4.2
4	☐	250.000	258.530	104569.71	0.0443	P	1.7
5	☐	625.000	627.077	254596.88	0.1073	P	1.0
6	☐	1250.000	1269.966	520175.41	0.2171	P	0.6
7	☐	2500.000	2518.920	1049657.37	0.4304	P	1.0
8	☐	5000.000	4984.862	2071852.46	0.8515	A	3.8
9	☐			577.81	0.0002	P	10.4

$$y = 1.7079\text{E-}004 * x + 1.7301\text{E-}004$$

$$R = 1.0000$$

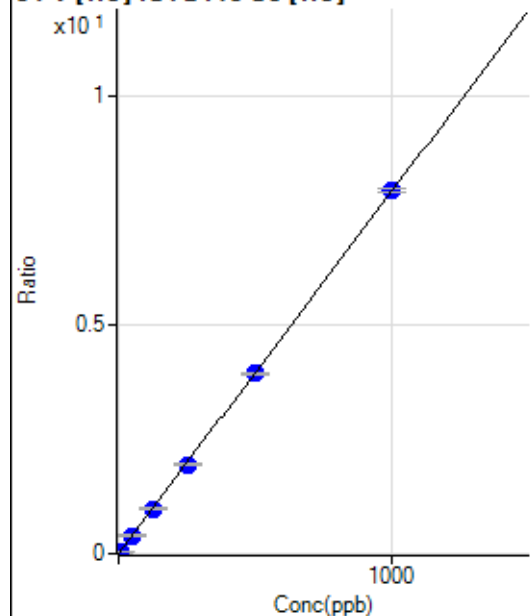
$$DL = 0.6269$$

$$BEC = 1.013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0001	P	34.2
2	☐	0.500	0.466	345.56	0.0038	P	8.1
3	☐	5.000	4.627	3315.98	0.0367	P	3.5
4	☐	50.000	50.242	36173.43	0.3976	P	1.1
5	☐	125.000	124.554	89789.20	0.9856	P	0.6
6	☐	250.000	246.562	179549.48	1.9509	P	0.4
7	☐	500.000	497.400	359057.73	3.9355	P	0.4
8	☐	1000.000	1002.205	722759.41	7.9295	P	0.9
9	☐			161.11	0.0018	P	43.6

$$y = 0.0079 * x + 1.1339\text{E-}004$$

$$R = 1.0000$$

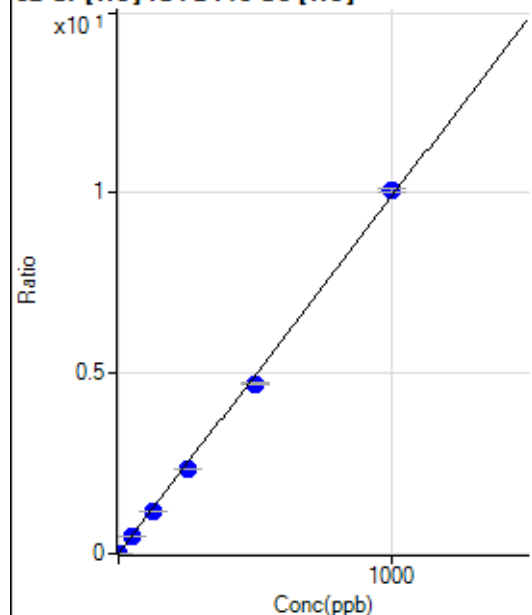
$$DL = 0.01469$$

$$BEC = 0.01433$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	707.80	0.0080	P	5.1
2	☐	0.200	0.196	904.48	0.0099	P	7.7
3	☐	2.000	1.755	2292.43	0.0254	P	5.4
4	☐	50.000	48.849	44678.43	0.4911	P	1.4
5	☐	125.000	119.464	108368.59	1.1895	P	0.7
6	☐	250.000	237.615	217017.87	2.3580	P	0.7
7	☐	500.000	475.102	429424.64	4.7068	P	0.7
8	☐	1000.000	1016.295	916861.47	10.0592	P	1.1
9	☐			8314.71	0.0931	P	5.5

$$y = 0.0099 * x + 0.0080$$

$$R = 0.9995$$

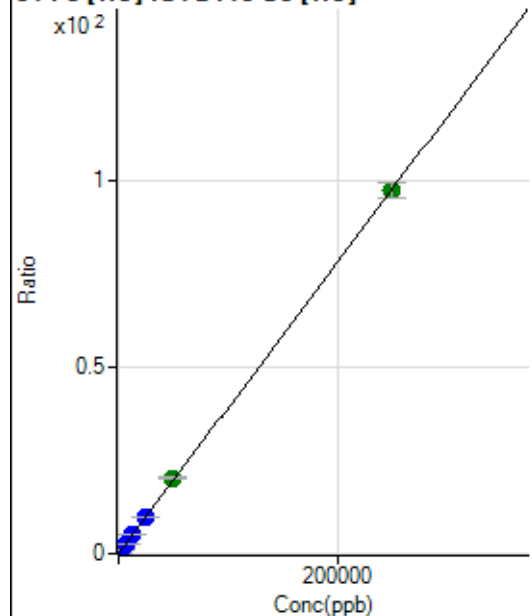
$$DL = 0.1243$$

$$BEC = 0.8096$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	383.34	0.0043	P	7.1
2	☐	5.000	6.496	624.10	0.0069	P	16.0
3	☐	50.000	48.176	2085.37	0.0231	P	3.5
4	☐	2500.000	2620.790	93147.78	1.0239	P	0.5
5	☐	6250.000	6414.939	227750.51	2.4999	P	1.0
6	☐	12500.000	12666.980	453934.12	4.9322	P	0.2
7	☐	25000.000	25521.105	906217.17	9.9328	P	0.7
8	☐	50000.000	52018.205	1845008.73	20.2409	A	1.0
9	☐	250000.00	249530.56	8675081.73	97.0788	A	4.4

$$y = 3.8903E-004 * x + 0.0043$$

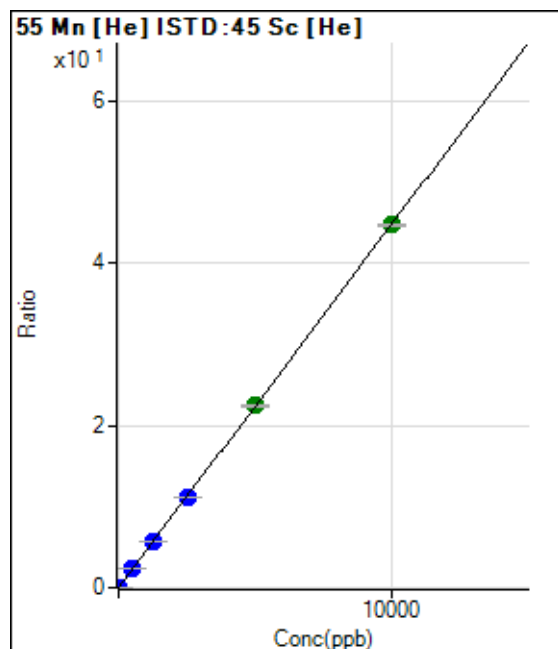
$$R = 1.0000$$

$$DL = 2.373$$

$$BEC = 11.15$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	144.45	0.0016	P	3.8
2	☒	0.100					
3	☐	1.000	0.791	466.68	0.0052	P	6.6
4	☐	500.000	515.565	209927.02	2.3076	P	0.3
5	☐	1250.000	1256.425	512099.68	5.6212	P	1.0
6	☐	2500.000	2496.238	1027648.41	11.1664	P	1.1
7	☐	5000.000	5017.930	2047752.17	22.4450	A	0.9
8	☐	10000.000	9990.394	4073126.71	44.6851	A	0.6
9	☐			4113.97	0.0461	P	8.7

$$y = 0.0045 * x + 0.0016$$

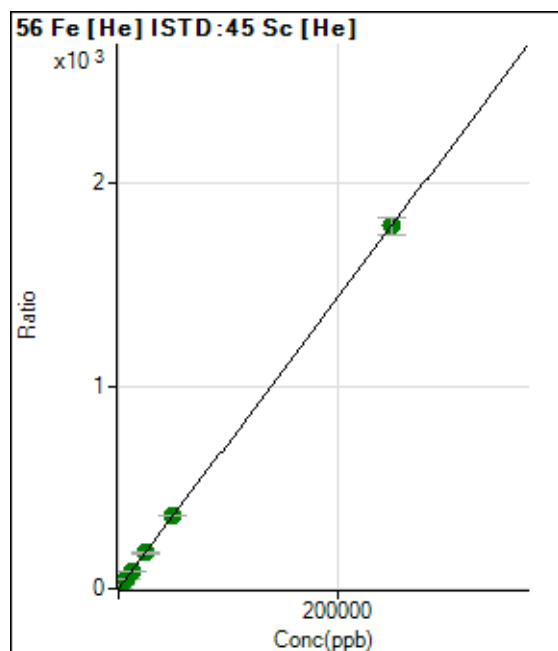
$$R = 1.0000$$

$$DL = 0.04119$$

$$BEC = 0.3655$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2911.46	0.0329	P	1.9
2	☐	5.000	4.398	5856.85	0.0644	P	3.6
3	☐	50.000	47.917	33931.43	0.3758	P	3.3
4	☐	2500.000	2571.874	1677033.12	18.4342	A	1.1
5	☐	6250.000	6161.928	4019373.18	44.1203	A	1.3
6	☐	12500.000	12265.696	8079541.56	87.7916	A	0.9
7	☐	25000.000	24641.518	16087900.48	176.3381	A	1.1
8	☐	50000.000	50207.002	32746337.07	359.2541	A	0.6
9	☐	250000.00	250007.64	159837881.3	1,788.788	A	4.5

$$y = 0.0072 * x + 0.0329$$

$$R = 1.0000$$

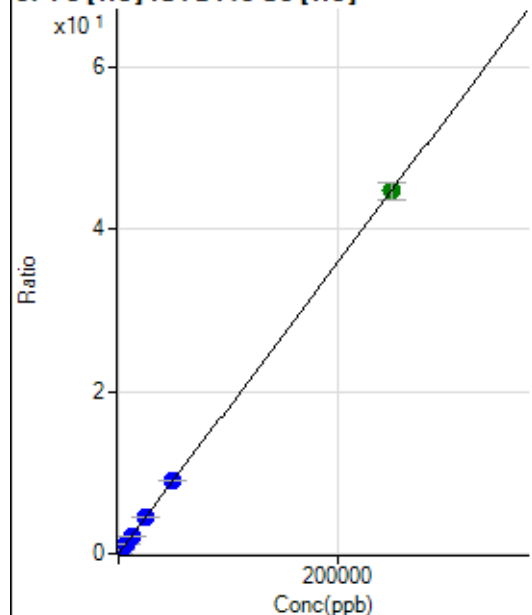
$$DL = 0.256$$

$$BEC = 4.603$$

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	118.52	0.0013	P	13.6
2	☐	5.000	6.054	220.38	0.0024	P	0.8
3	☐	50.000	46.952	877.82	0.0097	P	16.8
4	☐	2500.000	2538.034	41410.24	0.4552	P	1.9
5	☐	6250.000	6178.129	100770.16	1.1061	P	0.6
6	☐	12500.000	12506.219	205937.39	2.2377	P	1.0
7	☐	25000.000	24761.452	404089.78	4.4292	P	1.0
8	☐	50000.000	50267.471	819425.64	8.9902	P	1.3
9	☐	250000.00	249971.46	3994008.65	44.7012	A	4.7

$$y = 1.7882E-004 * x + 0.0013$$

$$R = 1.0000$$

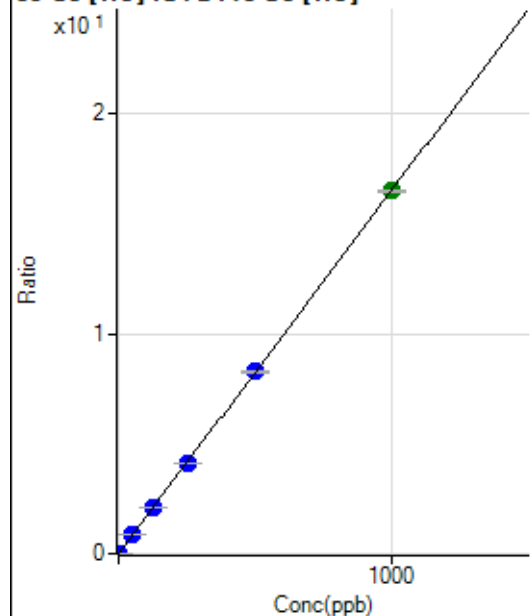
$$DL = 3.054$$

$$BEC = 7.493$$

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	54.44	0.0006	P	34.0
2	☐	0.100	0.080	175.56	0.0019	P	15.6
3	☐	1.000	1.011	1562.32	0.0173	P	3.6
4	☐	50.000	51.973	78109.36	0.8586	P	0.3
5	☐	125.000	125.720	189135.84	2.0761	P	0.5
6	☐	250.000	250.035	379930.47	4.1283	P	0.9
7	☐	500.000	500.790	754301.66	8.2679	P	1.3
8	☐	1000.000	999.408	1503990.78	16.4992	A	0.4
9	☐			2790.29	0.0312	P	4.5

$$y = 0.0165 * x + 6.1470E-004$$

$$R = 1.0000$$

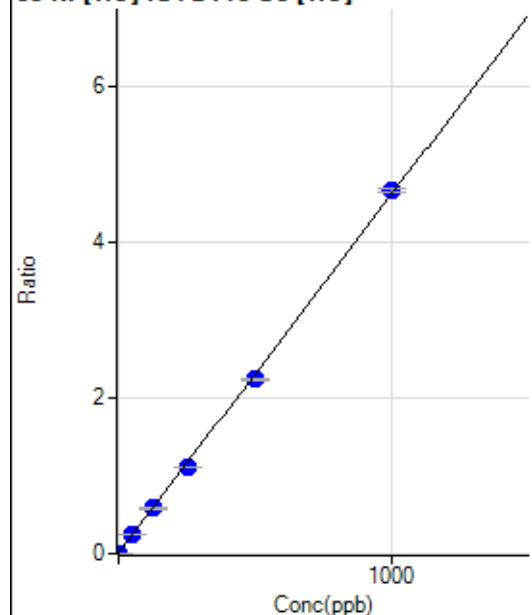
$$DL = 0.03803$$

$$BEC = 0.03724$$

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	675.58	0.0076	P	5.2
2	☒	0.100					
3	☐	1.000	0.849	1043.38	0.0116	P	3.7
4	☐	50.000	50.280	21785.63	0.2395	P	1.7
5	☐	125.000	124.436	52965.87	0.5814	P	0.8
6	☐	250.000	241.611	103230.71	1.1216	P	0.2
7	☐	500.000	484.218	204386.28	2.2402	P	1.0
8	☐	1000.000	1010.045	425171.96	4.6647	P	1.2
9	☐			3104.81	0.0347	P	3.2

$$y = 0.0046 * x + 0.0076$$

$$R = 0.9998$$

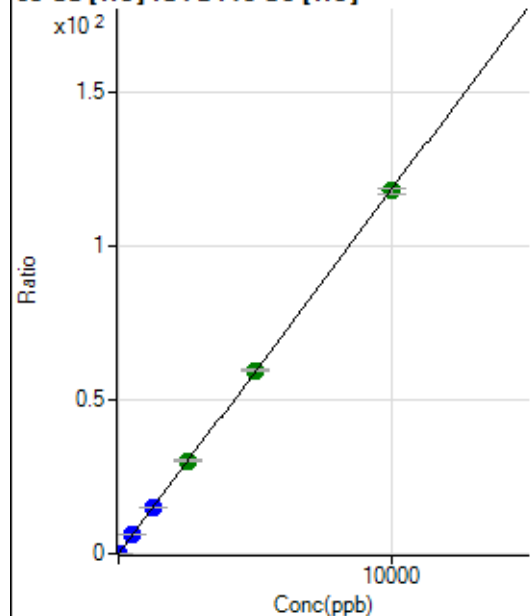
$$DL = 0.2585$$

$$BEC = 1.657$$

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	773.36	0.0087	P	1.2
2	☐	0.200	0.162	970.04	0.0107	P	7.6
3	☐	2.000	2.226	3171.50	0.0351	P	3.3
4	☐	500.000	527.539	569012.73	6.2547	P	0.5
5	☐	1250.000	1284.264	1386068.87	15.2142	P	0.5
6	☐	2500.000	2545.042	2773781.31	30.1416	A	1.9
7	☐	5000.000	5038.593	5443365.44	59.6649	A	1.4
8	☐	10000.000	9963.783	10752923.87	117.9784	A	1.5
9	☐			6105.83	0.0684	P	10.7

$$y = 0.0118 * x + 0.0087$$

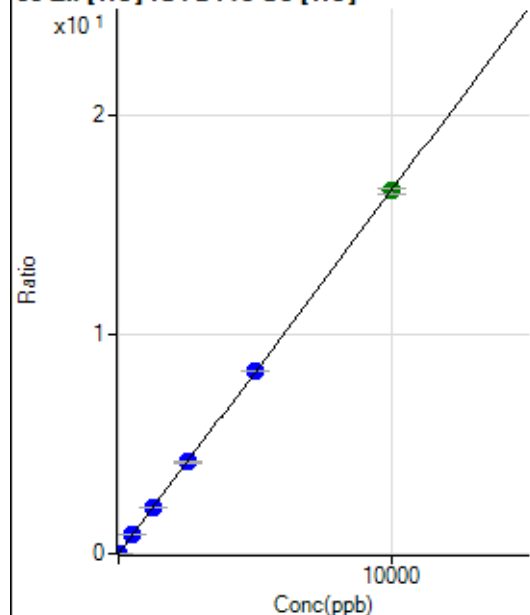
$$R = 1.0000$$

$$DL = 0.02696$$

$$BEC = 0.7389$$

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	75.56	0.0009	P	14.7
2	☒	0.200					
3	☐	2.000	2.155	400.01	0.0044	P	10.6
4	☐	500.000	524.915	79323.60	0.8719	P	0.7
5	☐	1250.000	1276.621	193086.51	2.1194	P	1.2
6	☐	2500.000	2514.374	384088.32	4.1734	P	0.6
7	☐	5000.000	5014.985	759372.59	8.3231	P	0.5
8	☐	10000.000	9984.341	1510181.70	16.5697	A	1.8
9	☐			4036.17	0.0452	P	6.2

$$y = 0.0017 * x + 8.5408E-004$$

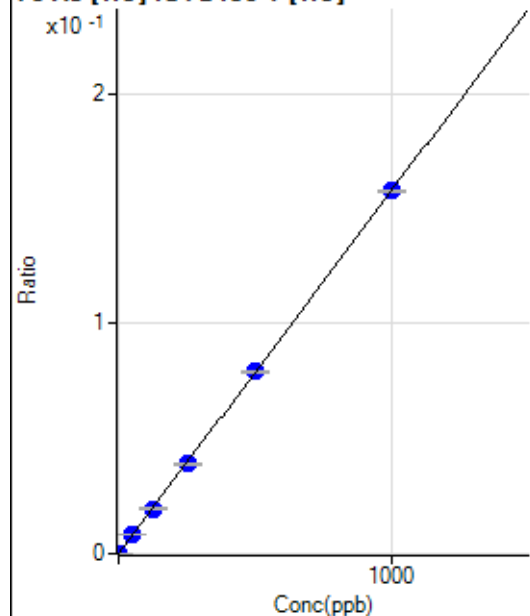
$$R = 1.0000$$

$$DL = 0.2262$$

$$BEC = 0.5147$$

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	5.33	0.0000	P	46.1
2	☐	0.100	0.114	18.33	0.0000	P	35.0
3	☐	1.000	0.916	108.34	0.0002	P	6.4
4	☐	50.000	51.343	5843.14	0.0081	P	1.6
5	☐	125.000	123.760	14221.91	0.0195	P	1.6
6	☐	250.000	247.219	28490.81	0.0390	P	1.2
7	☐	500.000	502.285	57074.50	0.0792	P	1.0
8	☐	1000.000	999.641	114542.75	0.1576	P	0.4
9	☐			51.67	0.0001	P	26.4

$$y = 1.5768E-004 * x + 7.5217E-006$$

$$R = 1.0000$$

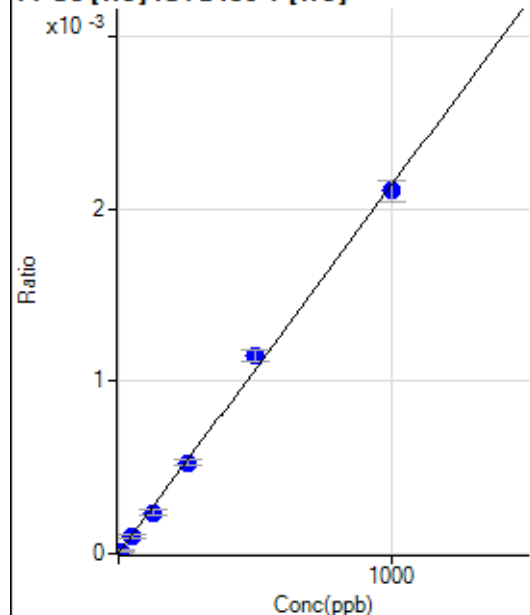
$$DL = 0.06592$$

$$BEC = 0.0477$$

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	1.11	0.0000	P	173.
2	☐	0.500	2.894	5.56	0.0000	P	34.6
3	☐	5.000	5.868	10.00	0.0000	P	67.8
4	☐	50.000	47.576	74.45	0.0001	P	17.3
5	☐	125.000	110.015	172.23	0.0002	P	14.7
6	☐	250.000	247.077	386.68	0.0005	P	4.5
7	☐	500.000	535.892	825.59	0.0011	P	5.6
8	☐	1000.000	984.774	1528.99	0.0021	P	6.1
9	☐			0.00	0.0000	P	

$$y = 2.1351\text{E-}006 * x + 1.5686\text{E-}006$$

$$R = 0.9990$$

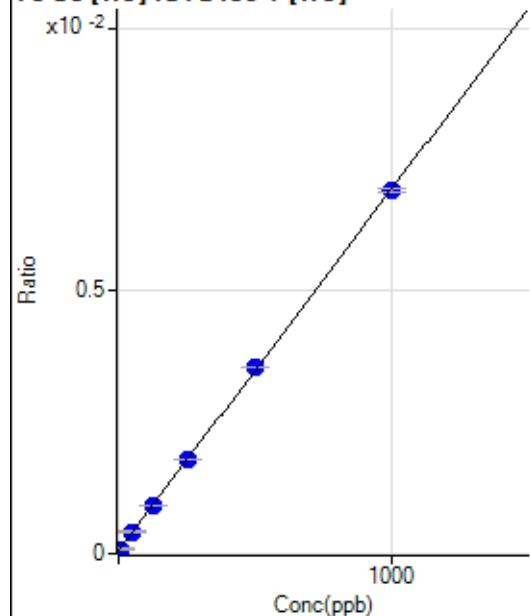
$$DL = 3.817$$

$$BEC = 0.7347$$

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	45.34	0.0001	P	20.0
2	☐	0.500	0.317	47.67	0.0001	P	18.2
3	☐	5.000	3.636	63.68	0.0001	P	12.0
4	☐	50.000	51.659	302.03	0.0004	P	12.1
5	☐	125.000	124.027	667.09	0.0009	P	3.4
6	☐	250.000	250.940	1305.86	0.0018	P	1.1
7	☐	500.000	507.408	2556.49	0.0035	P	0.8
8	☐	1000.000	996.106	5016.07	0.0069	P	1.2
9	☐			43.00	0.0001	P	33.3

$$y = 6.8652\text{E-}006 * x + 6.4284\text{E-}005$$

$$R = 1.0000$$

$$DL = 5.619$$

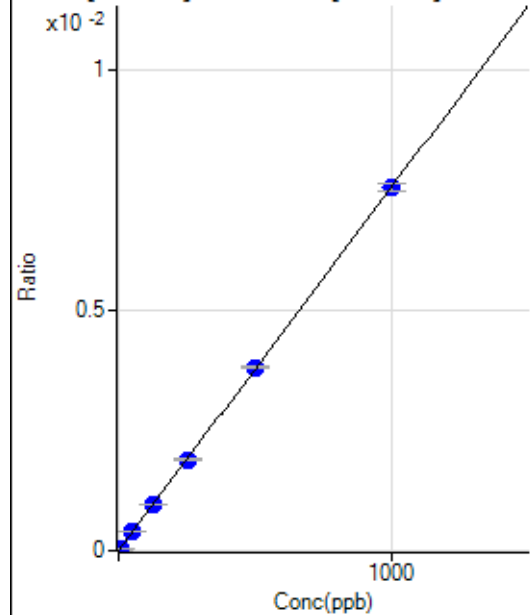
$$BEC = 9.364$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2866.60		P	5.8
2	☐			3003.43		P	0.3
3	☐			2923.32		P	3.1
4	☐			2839.91		P	6.4
5	☐			3106.89		P	9.5
6	☐			2849.90		P	4.6
7	☐			2833.22		P	4.6
8	☐			2803.19		P	6.1
9	☐			3053.49		P	4.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.14	0.0000	P	86.7
2	☒	0.500					
3	☐	5.000	5.021	269.47	0.0000	P	19.7
4	☐	50.000	51.042	2541.42	0.0004	P	3.0
5	☐	125.000	124.674	6117.44	0.0009	P	0.2
6	☐	250.000	250.602	12316.01	0.0019	P	1.9
7	☐	500.000	503.507	24860.42	0.0038	P	1.1
8	☐	1000.000	998.085	49143.80	0.0076	P	2.0
9	☐			77.04	0.0000	P	59.7

$$y = 7.5663\text{E-}006 * x + 3.3801\text{E-}006$$

$$R = 1.0000$$

$$DL = 1.163$$

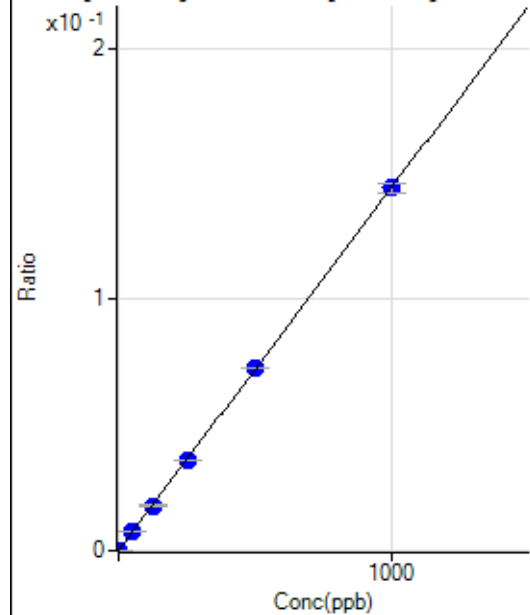
$$BEC = 0.4467$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			384.45		P	7.1
2	☐			374.45		P	7.6
3	☐			351.12		P	11.1
4	☐			381.12		P	11.4
5	☐			387.79		P	19.5
6	☐			377.79		P	7.5
7	☐			403.34		P	16.0
8	☐			392.23		P	5.8
9	☐			348.90		P	10.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	586.14	0.0001	P	20.5
2	☐	0.100	0.195	758.37	0.0001	P	5.8
3	☐	1.000	0.962	1491.79	0.0002	P	8.5
4	☐	50.000	50.618	48303.45	0.0074	P	1.6
5	☐	125.000	123.671	116079.70	0.0180	P	1.3
6	☐	250.000	247.155	232195.28	0.0358	P	0.6
7	☐	500.000	502.785	474366.75	0.0728	P	0.4
8	☐	1000.000	999.454	940158.97	0.1445	P	2.5
9	☐			5862.49	0.0009	P	0.2

$$y = 1.4453E-004 * x + 9.0099E-005$$

$$R = 1.0000$$

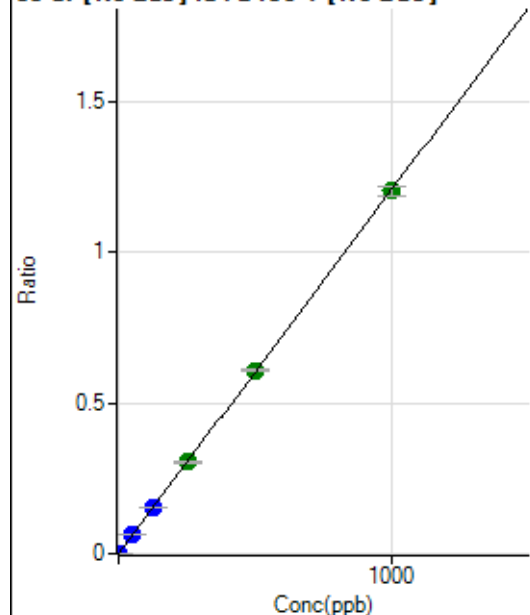
$$DL = 0.3836$$

$$BEC = 0.6234$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	27.5
2	☐	0.100	0.104	894.50	0.0001	P	4.8
3	☐	1.000	0.978	7782.96	0.0012	P	0.4
4	☐	50.000	51.630	406779.60	0.0624	P	1.8
5	☐	125.000	127.272	993358.40	0.1537	P	1.3
6	☐	250.000	251.813	1971981.90	0.3041	A	0.9
7	☐	500.000	503.387	3963979.95	0.6080	A	1.3
8	☐	1000.000	997.488	7836369.27	1.2048	A	2.4
9	☐			45474.70	0.0067	P	1.4

$$y = 0.0012 * x + 1.3653E-005$$

$$R = 1.0000$$

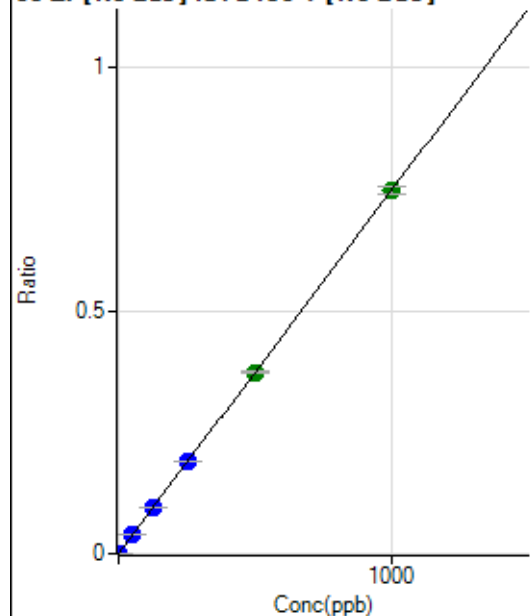
$$DL = 0.009331$$

$$BEC = 0.0113$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	227.79	0.0000	P	8.5
2	☐	0.100	0.102	713.93	0.0001	P	5.1
3	☐	1.000	0.965	4926.02	0.0008	P	3.3
4	☐	50.000	51.247	250078.87	0.0383	P	0.8
5	☐	125.000	126.448	610969.10	0.0946	P	1.1
6	☐	250.000	253.468	1228547.10	0.1895	P	1.3
7	☐	500.000	500.121	2437623.45	0.3739	A	1.0
8	☐	1000.000	998.829	4856553.06	0.7466	A	2.1
9	☐			1483.45	0.0002	P	6.2

$$y = 7.4747E-004 * x + 3.5079E-005$$

$$R = 1.0000$$

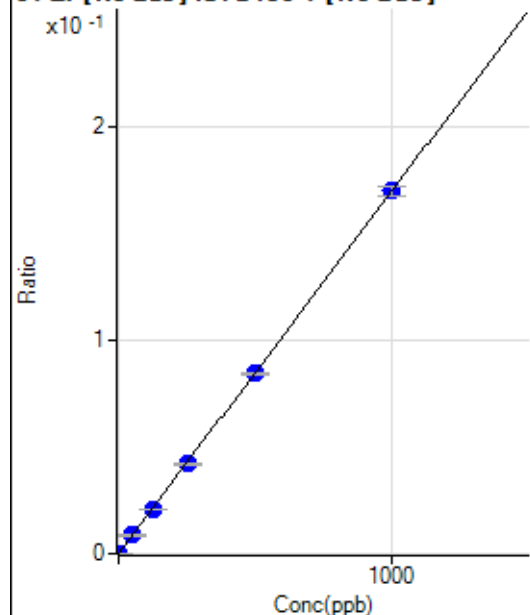
$$DL = 0.01197$$

$$BEC = 0.04693$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.56	0.0000	P	51.8
2	☐	0.100	0.060	119.45	0.0000	P	3.8
3	☐	1.000	0.847	991.73	0.0002	P	5.3
4	☐	50.000	50.576	56063.41	0.0086	P	2.0
5	☐	125.000	123.931	136032.30	0.0211	P	0.9
6	☐	250.000	248.136	273202.14	0.0421	P	1.7
7	☐	500.000	497.489	550824.51	0.0845	P	0.7
8	☐	1000.000	1001.827	1106530.86	0.1701	P	2.5
9	☐			361.13	0.0001	P	18.2

$$y = 1.6980\text{E-}004 * x + 8.5124\text{E-}006$$

$$R = 1.0000$$

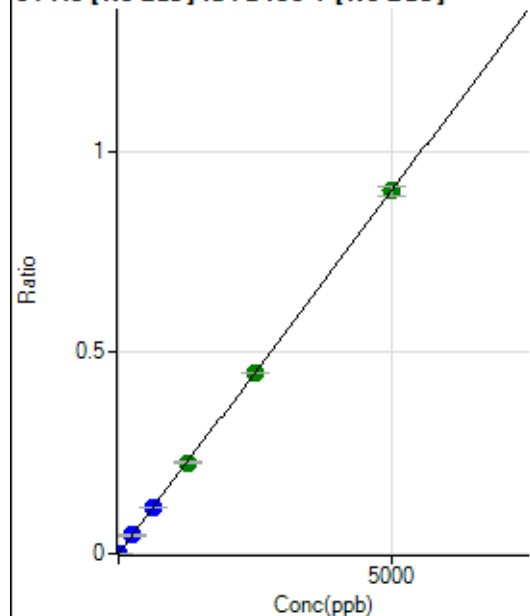
$$DL = 0.0779$$

$$BEC = 0.05013$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	133.34	0.0000	P	15.8
2	☐	0.500	0.490	697.26	0.0001	P	12.9
3	☐	5.000	4.645	5584.62	0.0009	P	1.4
4	☐	250.000	254.575	299386.81	0.0459	P	2.8
5	☐	625.000	632.119	736401.95	0.1140	P	0.9
6	☐	1250.000	1254.634	1466453.37	0.2262	A	1.0
7	☐	2500.000	2493.959	2931149.26	0.4496	A	0.5
8	☐	5000.000	5000.744	5863232.20	0.9014	A	2.9
9	☐			2225.25	0.0003	P	12.6

$$y = 1.8025\text{E-}004 * x + 2.0511\text{E-}005$$

$$R = 1.0000$$

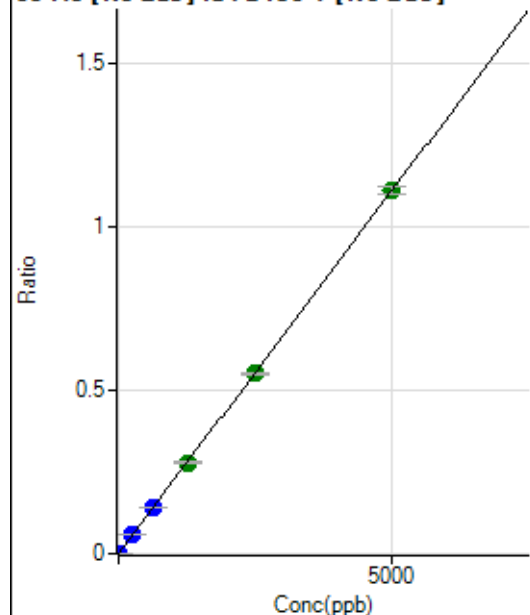
$$DL = 0.05398$$

$$BEC = 0.1138$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.55	0.0000	P	69.6
2	☐	0.500	0.473	702.82	0.0001	P	7.1
3	☐	5.000	4.604	6676.80	0.0010	P	4.4
4	☐	250.000	255.991	370224.66	0.0568	P	0.9
5	☐	625.000	629.562	901969.52	0.1396	P	1.4
6	☐	1250.000	1254.417	1802887.74	0.2781	A	2.4
7	☐	2500.000	2487.692	3596217.57	0.5516	A	1.2
8	☐	5000.000	5004.180	7216835.66	1.1095	A	2.0
9	☐			2705.89	0.0004	P	1.2

$$y = 2.2171\text{E-}004 * x + 4.7300\text{E-}006$$

$$R = 1.0000$$

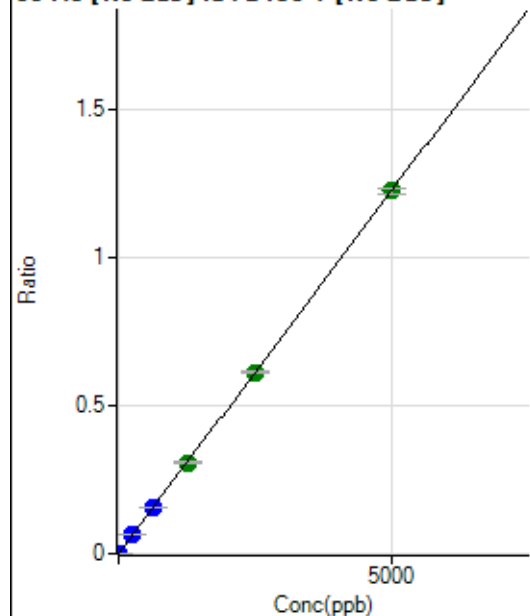
$$DL = 0.04453$$

$$BEC = 0.02133$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.11	0.0000	P	93.8
2	☐	0.500	0.443	730.59	0.0001	P	10.2
3	☐	5.000	4.760	7618.96	0.0012	P	0.8
4	☐	250.000	255.609	407903.49	0.0625	P	0.9
5	☐	625.000	630.097	996078.47	0.1542	P	1.8
6	☐	1250.000	1251.233	1984437.65	0.3061	A	1.8
7	☐	2500.000	2499.171	3986387.24	0.6114	A	1.0
8	☐	5000.000	4999.189	7955314.24	1.2230	A	1.7
9	☐			3269.93	0.0005	P	7.8

$$y = 2.4464\text{E-}004 * x + 5.6014\text{E-}006$$

$$R = 1.0000$$

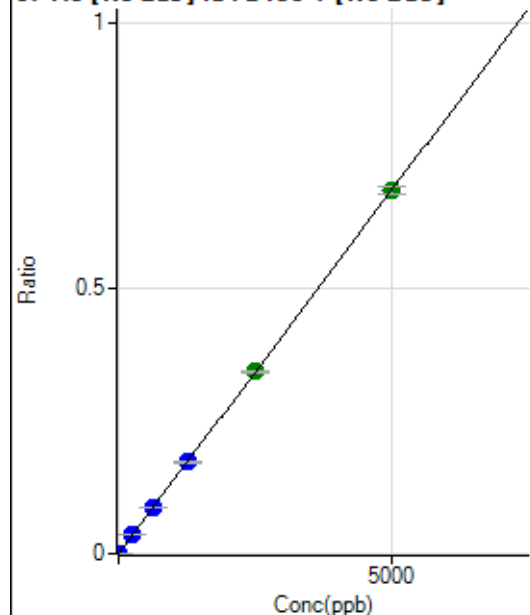
$$DL = 0.06446$$

$$BEC = 0.0229$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.89	0.0000	P	92.3
2	☐	0.500	0.494	447.24	0.0001	P	7.9
3	☐	5.000	4.609	4122.95	0.0006	P	1.9
4	☐	250.000	255.627	228326.01	0.0350	P	2.1
5	☐	625.000	628.542	556210.11	0.0861	P	1.4
6	☐	1250.000	1258.995	1117746.91	0.1724	P	1.7
7	☐	2500.000	2505.051	2236667.65	0.3431	A	1.3
8	☐	5000.000	4994.502	4448977.88	0.6840	A	2.1
9	☐			1636.25	0.0002	P	4.6

$$y = 1.3694E-004 * x + 2.1499E-006$$

$$R = 1.0000$$

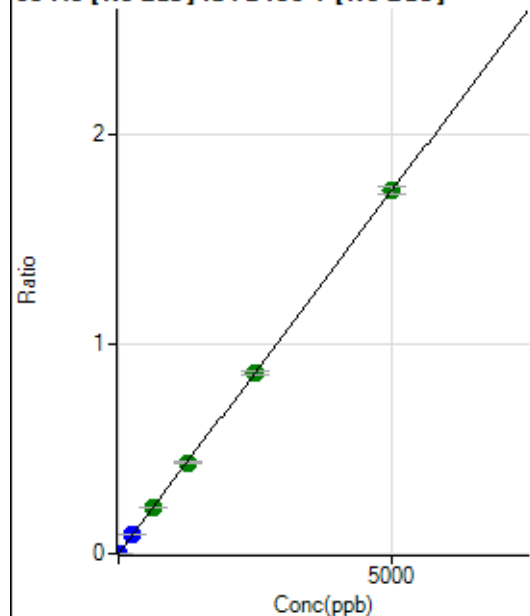
$$DL = 0.04346$$

$$BEC = 0.0157$$

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	19.44	0.0000	P	89.1
2	☐	0.500	0.473	1069.52	0.0002	P	10.3
3	☐	5.000	4.683	10590.42	0.0016	P	2.2
4	☐	250.000	256.692	580474.71	0.0890	P	1.7
5	☐	625.000	632.077	1416151.49	0.2192	A	0.4
6	☐	1250.000	1255.465	2822040.17	0.4353	A	1.6
7	☐	2500.000	2489.176	5626976.25	0.8630	A	1.5
8	☐	5000.000	5002.827	11282594.87	1.7346	A	2.1
9	☐			4245.21	0.0006	P	1.0

$$y = 3.4671E-004 * x + 2.9683E-006$$

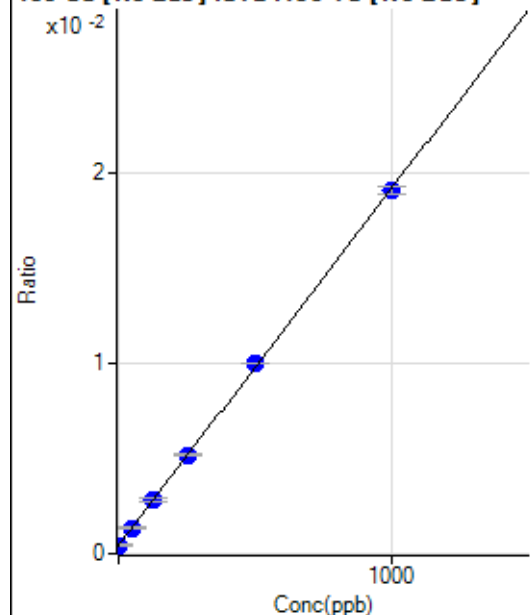
$$R = 1.0000$$

$$DL = 0.02289$$

$$BEC = 0.008561$$

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	1614.03	0.0004	P	3.8
2	☐	0.100	-0.042	1630.70	0.0004	P	1.9
3	☐	1.000	0.925	1716.82	0.0004	P	9.8
4	☐	50.000	49.376	5276.16	0.0014	P	7.1
5	☐	125.000	127.515	10929.58	0.0028	P	4.9
6	☐	250.000	253.177	19987.11	0.0052	P	2.4
7	☐	500.000	510.402	39022.67	0.0100	P	0.5
8	☐	1000.000	993.722	74959.31	0.0191	P	2.1
9	☐			1883.51	0.0005	P	6.9

$$y = 1.8743\text{E-}005 * x + 4.2637\text{E-}004$$

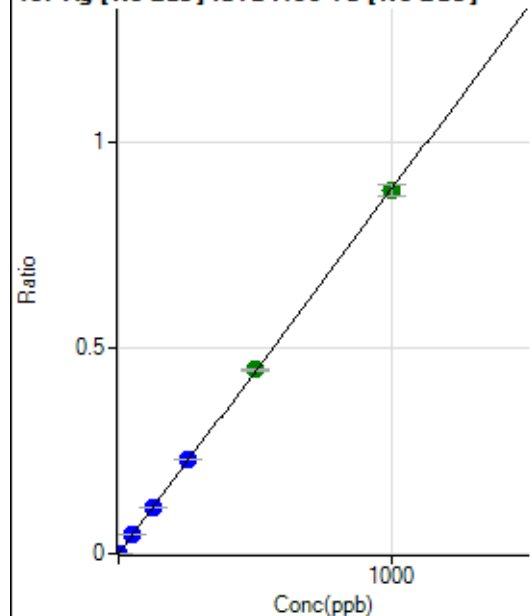
$$R = 0.9999$$

$$DL = 2.588$$

$$BEC = 22.75$$

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	44.45	0.0000	P	57.1
2	☐	0.100	0.087	341.68	0.0001	P	19.1
3	☐	1.000	0.947	3294.94	0.0009	P	1.8
4	☐	50.000	52.165	180438.76	0.0462	P	0.8
5	☐	125.000	126.368	434721.76	0.1120	P	3.5
6	☐	250.000	256.907	880015.47	0.2277	P	0.7
7	☐	500.000	505.120	1748046.28	0.4476	A	1.2
8	☐	1000.000	995.434	3470809.45	0.8822	A	3.3
9	☐			1986.30	0.0005	P	3.1

$$y = 8.8619\text{E-}004 * x + 1.1767\text{E-}005$$

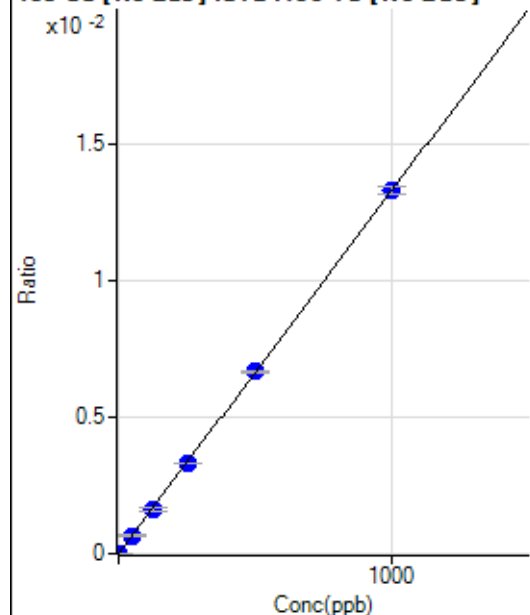
$$R = 1.0000$$

$$DL = 0.02273$$

$$BEC = 0.01328$$

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	12.50	0.0000	P	2.0
2	☐	0.100	-0.058	9.72	0.0000	P	65.3
3	☐	1.000	1.216	75.00	0.0000	P	32.4
4	☐	50.000	49.775	2589.17	0.0007	P	1.6
5	☐	125.000	123.775	6380.71	0.0016	P	8.3
6	☐	250.000	247.761	12714.31	0.0033	P	1.0
7	☐	500.000	501.013	25963.40	0.0066	P	1.1
8	☐	1000.000	1000.218	52212.26	0.0133	P	2.0
9	☐			51.39	0.0000	P	26.8

$$y = 1.3264\text{E-}005 * x + 3.3034\text{E-}006$$

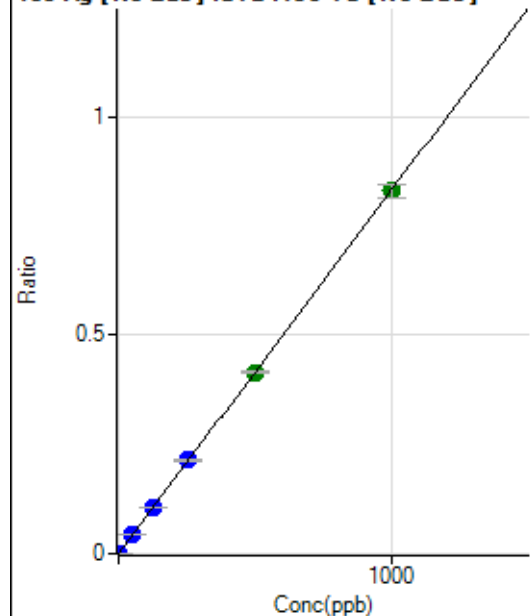
$$R = 1.0000$$

$$DL = 0.01523$$

$$BEC = 0.249$$

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	30.56	0.0000	P	62.2
2	☐	0.100	0.088	311.13	0.0001	P	7.1
3	☐	1.000	0.976	3181.02	0.0008	P	9.1
4	☐	50.000	52.196	169604.92	0.0435	P	0.8
5	☐	125.000	127.330	411610.52	0.1060	P	2.1
6	☐	250.000	257.837	829671.23	0.2147	P	2.0
7	☐	500.000	499.616	1624438.30	0.4160	A	1.1
8	☐	1000.000	997.831	3267922.99	0.8308	A	4.0
9	☐			1680.70	0.0004	P	9.2

$$y = 8.3255\text{E-}004 * x + 8.0061\text{E-}006$$

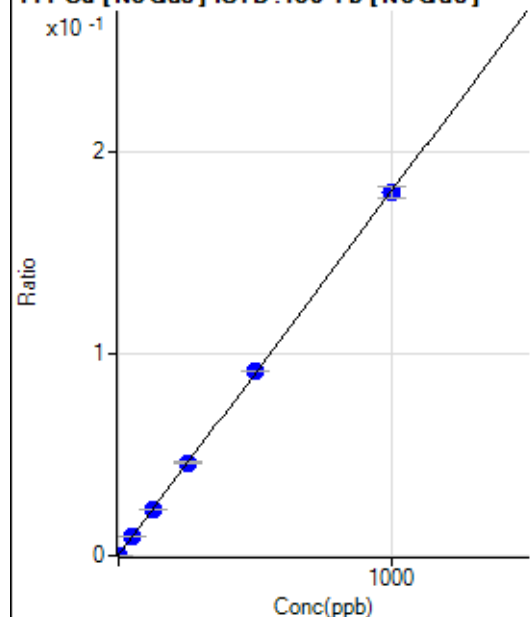
$$R = 1.0000$$

$$DL = 0.01795$$

$$BEC = 0.009616$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	964.95	0.0003	P	4.0
2	☐	0.100	0.128	1065.23	0.0003	P	0.9
3	☐	1.000	1.153	1791.24	0.0005	P	0.7
4	☐	50.000	50.518	36493.87	0.0094	P	0.2
5	☐	125.000	126.110	89156.02	0.0230	P	2.4
6	☐	250.000	253.994	177754.41	0.0460	P	1.7
7	☐	500.000	506.639	357295.53	0.0915	P	0.4
8	☐	1000.000	995.517	706289.11	0.1795	P	3.1
9	☐			1379.43	0.0003	P	6.3

$$y = 1.8008\text{E-}004 * x + 2.5491\text{E-}004$$

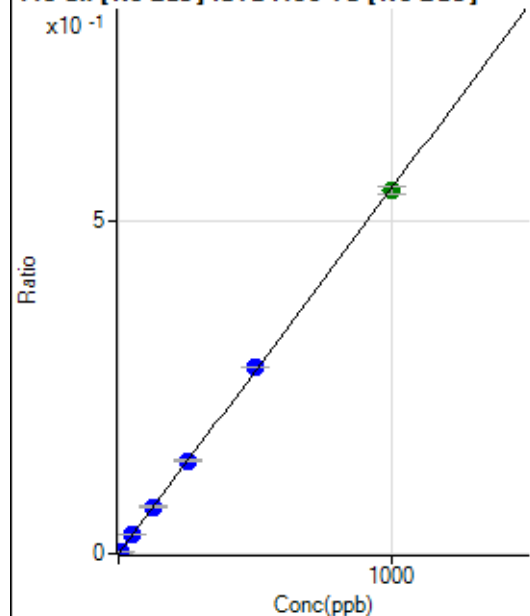
$$R = 1.0000$$

$$DL = 0.1692$$

$$BEC = 1.416$$

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	163.90	0.0000	P	12.8
2	☐	0.500	0.469	1155.64	0.0003	P	21.0
3	☐	5.000	4.728	10240.24	0.0026	P	5.9
4	☐	50.000	51.910	111599.98	0.0286	P	1.1
5	☐	125.000	127.228	271870.66	0.0700	P	3.0
6	☐	250.000	255.015	542284.23	0.1403	P	2.7
7	☐	500.000	509.843	1095502.30	0.2805	P	0.5
8	☐	1000.000	993.452	2150638.61	0.5466	A	2.1
9	☐			1002.84	0.0002	P	5.0

$$y = 5.5013\text{E-}004 * x + 4.3345\text{E-}005$$

$$R = 0.9999$$

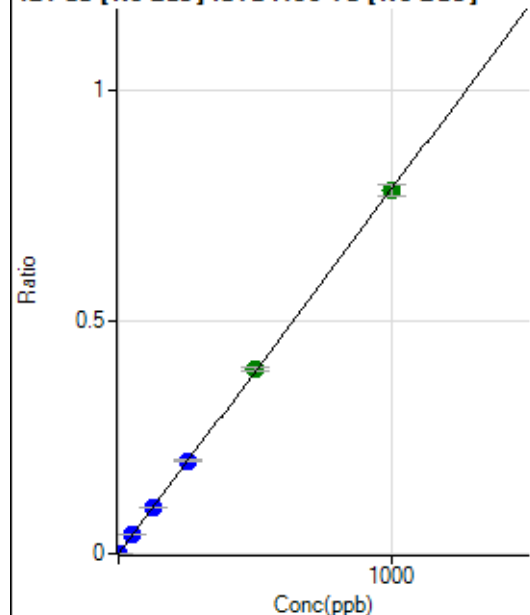
$$DL = 0.03016$$

$$BEC = 0.07879$$

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	25.00	0.0000	P	2.0
2	☐	0.200	0.192	602.81	0.0002	P	9.9
3	☐	2.000	1.921	5870.87	0.0015	P	2.6
4	☐	50.000	51.109	156795.03	0.0402	P	1.1
5	☐	125.000	126.274	385369.28	0.0993	P	2.3
6	☐	250.000	255.706	776851.24	0.2010	P	1.6
7	☐	500.000	505.767	1552511.71	0.3976	A	1.4
8	☐	1000.000	995.475	3078562.01	0.7825	A	3.1
9	☐			2911.49	0.0007	P	3.0

$$y = 7.8605E-004 * x + 6.6067E-006$$

$$R = 1.0000$$

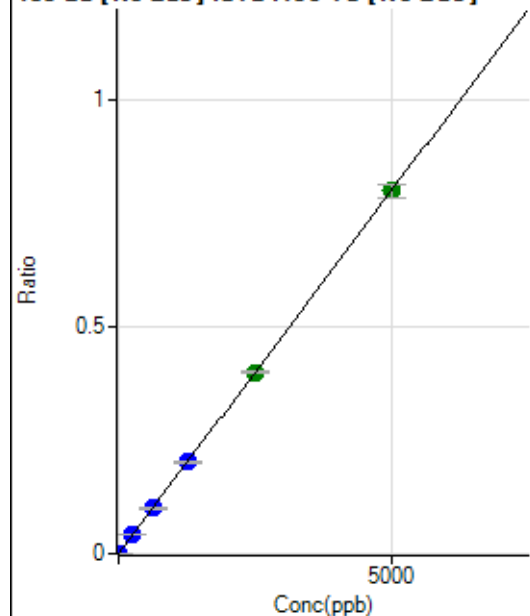
$$DL = 0.0005141$$

$$BEC = 0.008405$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	42.3
2	☐	1.000	0.920	575.03	0.0002	P	21.1
3	☐	10.000	9.257	5740.27	0.0015	P	3.9
4	☐	250.000	255.236	159239.12	0.0408	P	0.6
5	☐	625.000	626.995	389134.73	0.1002	P	2.9
6	☐	1250.000	1268.622	783810.33	0.2028	P	2.1
7	☐	2500.000	2495.928	1558283.58	0.3990	A	0.7
8	☐	5000.000	4996.871	3142744.56	0.7989	A	3.4
9	☐			5984.82	0.0015	P	8.2

$$y = 1.5988E-004 * x + 2.9280E-006$$

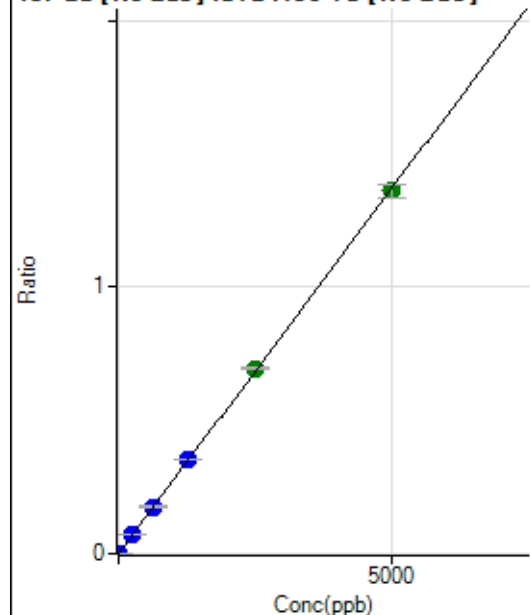
$$R = 1.0000$$

$$DL = 0.02324$$

$$BEC = 0.01831$$

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	22.22	0.0000	P	19.9
2	☐	1.000	0.948	1016.74	0.0003	P	4.8
3	☐	10.000	9.377	9970.63	0.0026	P	1.9
4	☐	250.000	257.311	275006.29	0.0705	P	0.8
5	☐	625.000	637.122	677373.93	0.1745	P	3.0
6	☐	1250.000	1282.427	1357575.81	0.3512	P	0.7
7	☐	2500.000	2537.869	2714313.06	0.6951	A	0.7
8	☐	5000.000	4971.080	5355817.61	1.3615	A	3.6
9	☐			9764.91	0.0024	P	2.9

$$y = 2.7388E-004 * x + 5.8557E-006$$

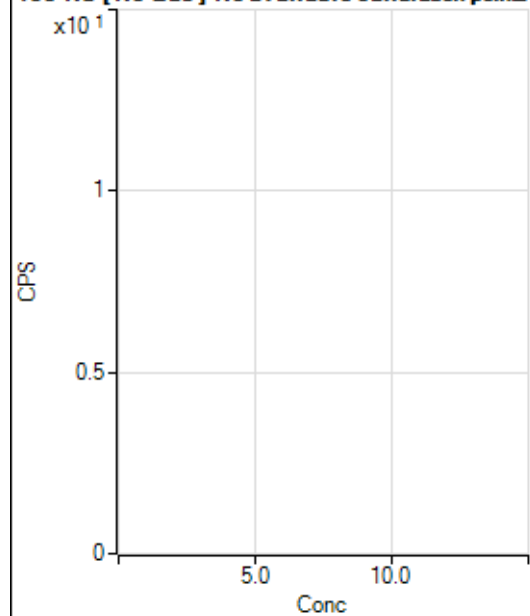
$$R = 0.9999$$

$$DL = 0.01278$$

$$BEC = 0.02138$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			8.89		P	43.3
3	☐			2.22		P	173.
4	☐			11.11		P	91.7
5	☐			28.89		P	13.3
6	☐			48.89		P	56.8
7	☐			84.45		P	18.2
8	☐			111.11		P	19.3
9	☐			13.33		P	50.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			3.33		P	100.
6	☐			2.22		P	86.6
7	☐			7.78		P	49.5
8	☐			8.89		P	57.3
9	☐			0.00		P	

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	34.7
2	☐			13.89		P	91.6
3	☐			19.44		P	65.5
4	☐			13.89		P	69.3
5	☐			27.78		P	45.8
6	☐			36.11		P	13.3
7	☐			63.89		P	74.2
8	☐			119.45		P	26.4
9	☐			172.23		P	12.2

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			3.33		P	173.
3	☐			2.22		P	173.
4	☐			6.67		P	50.0
5	☐			1.11		P	173.
6	☐			12.22		P	15.7
7	☐			8.89		P	21.6
8	☐			32.22		P	47.8
9	☐			82.22		P	13.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	91.7
2	☐			33.33		P	66.1
3	☐			36.11		P	48.0
4	☐			25.00		P	0.0
5	☐			50.00		P	33.3
6	☐			50.00		P	66.7
7	☐			66.67		P	21.7
8	☐			102.78		P	24.8
9	☐			197.23		P	23.3

160 Gd [He] No available calibration points

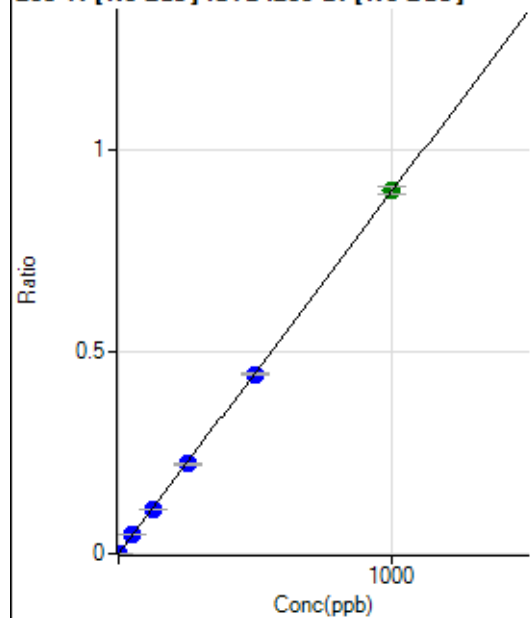
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	66.1
2	☐			7.78		P	107.
3	☐			6.67		P	50.0
4	☐			18.89		P	27.0
5	☐			10.00		P	57.8
6	☐			11.11		P	45.8
7	☐			24.44		P	34.3
8	☐			32.22		P	26.0
9	☐			98.89		P	7.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	60.0
2	☐			13.89		P	69.3
3	☐			38.89		P	75.3
4	☐			11.11		P	173.
5	☐			27.78		P	34.6
6	☐			30.55		P	15.7
7	☐			30.55		P	68.6
8	☐			38.89		P	44.6
9	☐			61.11		P	41.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			3.33		P	100.
3	☐			7.78		P	49.5
4	☐			4.44		P	114.
5	☐			12.22		P	56.8
6	☐			13.33		P	50.0
7	☐			14.44		P	13.4
8	☐			15.55		P	44.6
9	☐			18.89		P	44.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	94.6
2	☐	0.100	0.077	166.68	0.0001	P	13.4
3	☐	1.000	0.910	1750.17	0.0008	P	8.1
4	☐	50.000	51.480	96257.83	0.0461	P	1.4
5	☐	125.000	123.060	232767.29	0.1102	P	1.2
6	☐	250.000	247.681	468085.88	0.2217	P	0.7
7	☐	500.000	495.419	962616.82	0.4435	P	1.0
8	☐	1000.000	1003.039	1921425.07	0.8979	A	2.0
9	☐			1402.89	0.0007	P	7.0

$$y = 8.9516E-004 * x + 1.0553E-005$$

$$R = 1.0000$$

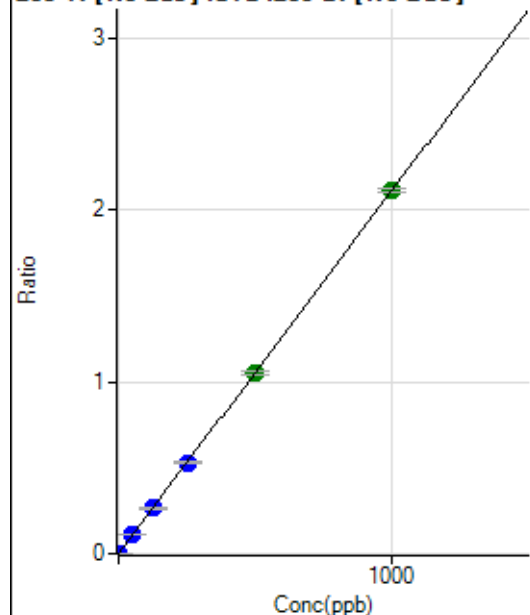
$$DL = 0.03346$$

$$BEC = 0.01179$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	61.11	0.0000	P	28.7
2	☐	0.100	0.089	455.58	0.0002	P	4.8
3	☐	1.000	0.951	4323.07	0.0020	P	6.9
4	☐	50.000	51.262	226138.26	0.1083	P	2.3
5	☐	125.000	124.708	556523.89	0.2634	P	2.2
6	☐	250.000	251.712	1122334.31	0.5317	P	1.2
7	☐	500.000	497.747	2281759.94	1.0513	A	1.5
8	☐	1000.000	1000.672	4522852.58	2.1135	A	0.9
9	☐			3453.33	0.0016	P	2.9

$$y = 0.0021 * x + 2.8989E-005$$

$$R = 1.0000$$

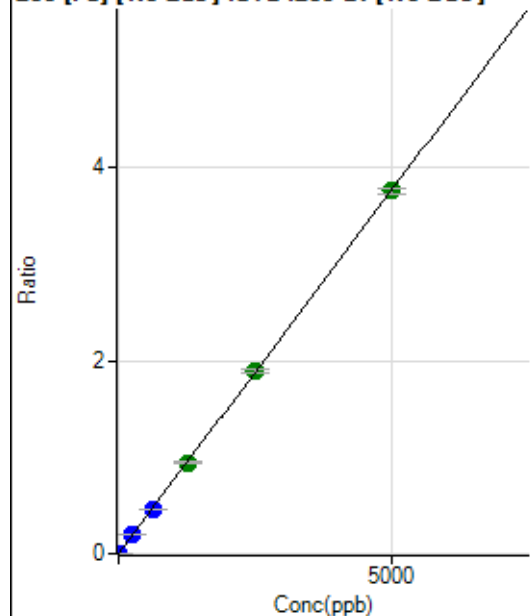
$$DL = 0.01182$$

$$BEC = 0.01373$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	344.46	0.0002	P	12.4
2	☐	0.100	0.055	431.50	0.0002	P	10.9
3	☐	1.000	0.882	1755.71	0.0008	P	7.5
4	☐	250.000	256.286	403174.77	0.1930	P	1.3
5	☐	625.000	616.535	980730.85	0.4642	P	1.3
6	☐	1250.000	1255.636	1995219.62	0.9452	A	1.6
7	☐	2500.000	2511.798	4103320.40	1.8906	A	1.4
8	☐	5000.000	4993.436	8042713.55	3.7583	A	1.3
9	☐			7487.46	0.0036	P	1.6

$$y = 7.5262E-004 * x + 1.6326E-004$$

$$R = 1.0000$$

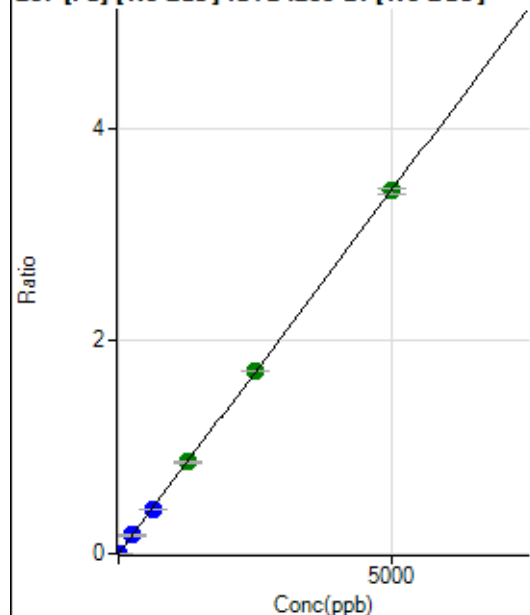
$$DL = 0.08095$$

$$BEC = 0.2169$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	294.45	0.0001	P	2.3
2	☐	0.100	0.087	418.53	0.0002	P	5.0
3	☐	1.000	0.854	1533.46	0.0007	P	2.9
4	☐	250.000	251.711	359045.82	0.1719	P	1.6
5	☐	625.000	609.585	879296.29	0.4162	P	1.4
6	☐	1250.000	1257.317	1811599.13	0.8582	A	2.6
7	☐	2500.000	2515.781	3727166.64	1.7171	A	0.7
8	☐	5000.000	4992.121	7291263.47	3.4072	A	1.8
9	☐			6592.54	0.0031	P	3.5

$$y = 6.8249E-004 * x + 1.3959E-004$$

$$R = 1.0000$$

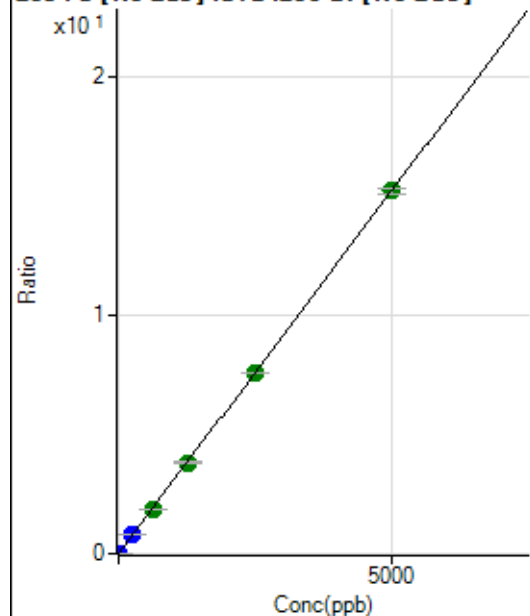
$$DL = 0.01413$$

$$BEC = 0.2045$$

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	1424.14	0.0007	P	6.0
2	☐	0.100	0.079	1929.73	0.0009	P	1.5
3	☐	1.000	0.860	6995.32	0.0033	P	4.6
4	☐	250.000	255.161	1625235.77	0.7782	P	1.3
5	☐	625.000	617.543	3977500.92	1.8824	A	0.5
6	☐	1250.000	1259.069	8100375.88	3.8373	A	1.7
7	☐	2500.000	2492.888	16489510.55	7.5970	A	0.7
8	☐	5000.000	5001.963	32618482.15	15.2426	A	1.7
9	☐			29658.10	0.0141	P	0.6

$$y = 0.0030 * x + 6.7501E-004$$

$$R = 1.0000$$

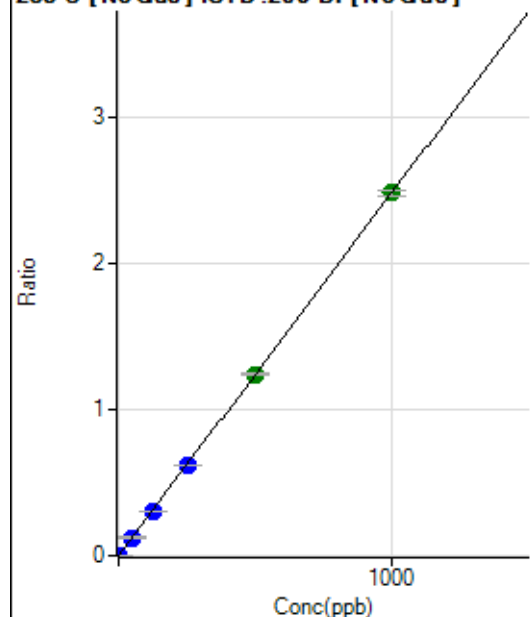
$$DL = 0.03982$$

$$BEC = 0.2215$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	43.2
2	☐	0.100	0.085	455.58	0.0002	P	1.3
3	☐	1.000	0.880	4637.11	0.0022	P	3.7
4	☐	50.000	50.370	260591.19	0.1248	P	1.9
5	☐	125.000	122.756	642559.59	0.3041	P	0.9
6	☐	250.000	249.858	1306767.09	0.6190	P	0.8
7	☐	500.000	499.156	2683942.16	1.2366	A	1.1
8	☐	1000.000	1000.719	5305262.88	2.4791	A	1.6
9	☐			636.14	0.0003	P	15.2

$$y = 0.0025 * x + 5.2644E-006$$

$$R = 1.0000$$

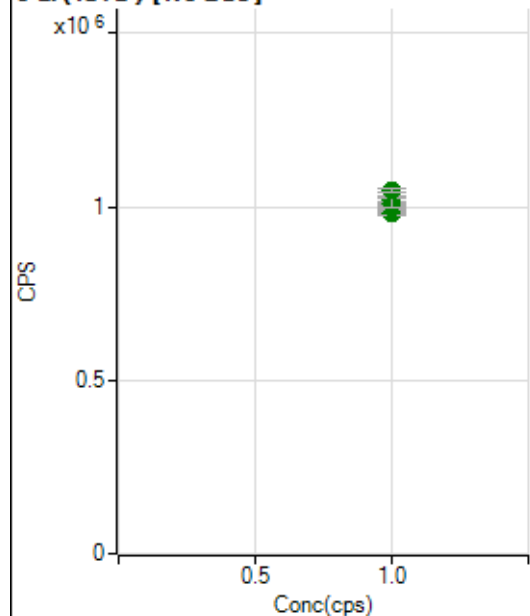
$$DL = 0.002754$$

$$BEC = 0.002125$$

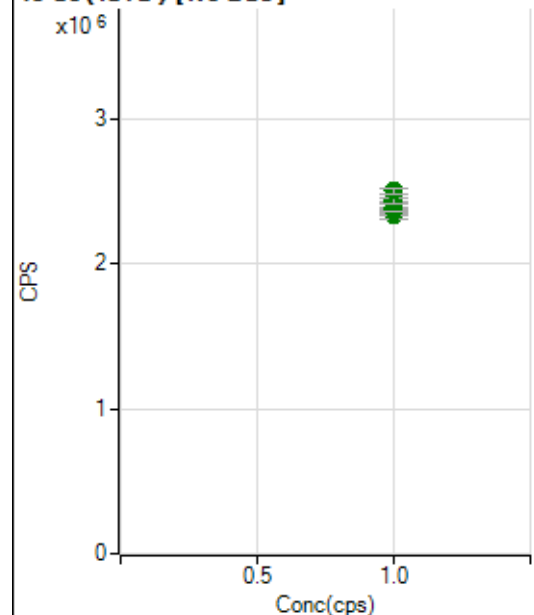
Weight: <None>

Min Conc: 0

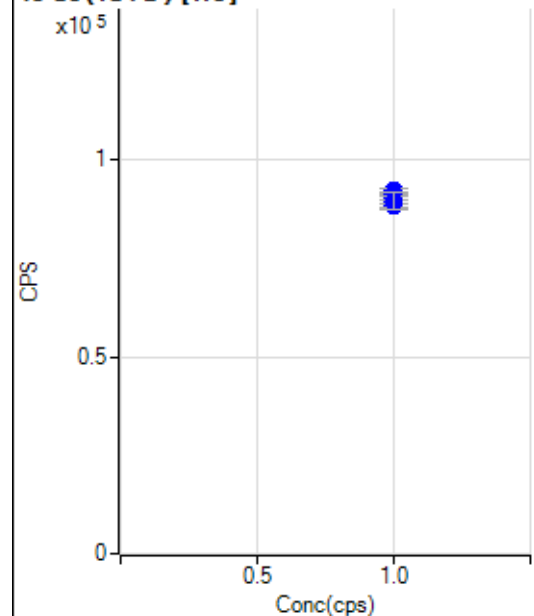
6 Li (ISTD) [No Gas]



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		981916.39		A	1.5
2	☐	1.000		994434.60		A	2.2
3	☐	1.000		984771.55		A	0.8
4	☐	1.000		980704.62		A	1.2
5	☐	1.000		999641.64		A	1.7
6	☐	1.000		1021062.89		A	1.1
7	☐	1.000		1026304.52		A	0.4
8	☐	1.000		1010183.48		A	2.9
9	☐	1.000		1045438.18		A	1.1

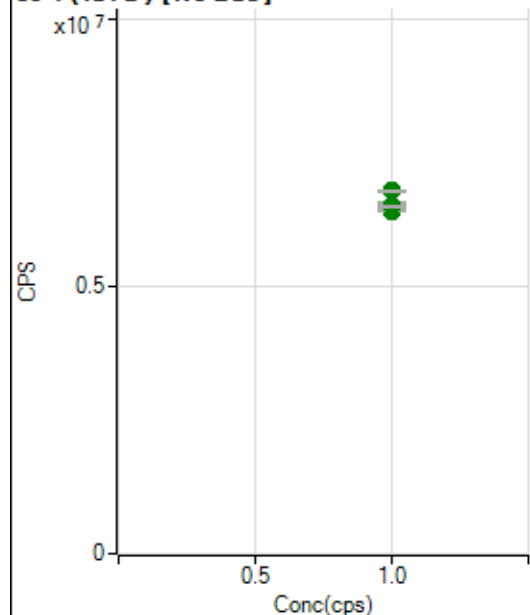
45 Sc (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2360751.27		A	1.0
2	☐	1.000		2334154.19		A	2.2
3	☐	1.000		2375088.46		A	0.9
4	☐	1.000		2358963.66		A	1.4
5	☐	1.000		2373563.31		A	1.2
6	☐	1.000		2396526.33		A	2.3
7	☐	1.000		2439012.90		A	1.1
8	☐	1.000		2434143.33		A	1.8
9	☐	1.000		2505345.00		A	1.4

45 Sc (ISTD) [He]

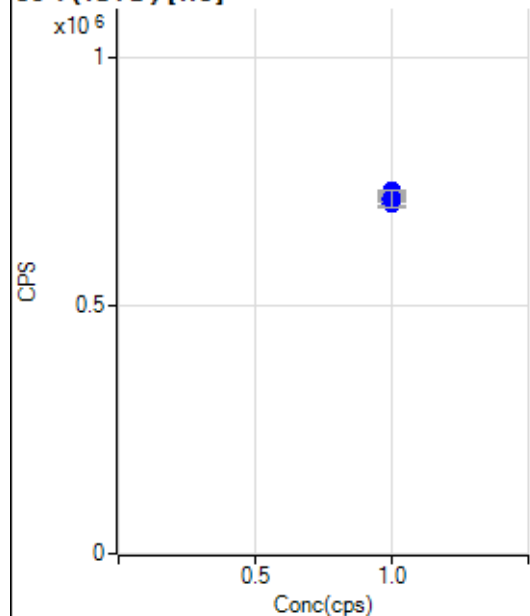
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		88396.61		P	1.1
2	☐	1.000		90971.13		P	0.9
3	☐	1.000		90329.38		P	1.7
4	☐	1.000		90973.09		P	0.3
5	☐	1.000		91105.33		P	0.6
6	☐	1.000		92035.49		P	0.9
7	☐	1.000		91237.07		P	0.6
8	☐	1.000		91155.58		P	1.4
9	☐	1.000		89484.96		P	4.9

89 Y (ISTD) [No Gas]

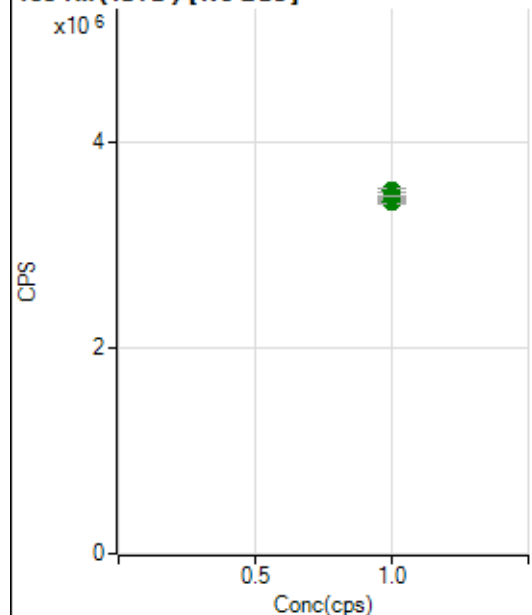


	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6496977.96		A	1.4
2	☐	1.000		6407958.86		A	0.4
3	☐	1.000		6511117.68		A	0.7
4	☐	1.000		6523092.68		A	1.4
5	☐	1.000		6461886.15		A	0.3
6	☐	1.000		6484366.43		A	2.0
7	☐	1.000		6519967.75		A	0.3
8	☐	1.000		6505207.05		A	0.7
9	☐	1.000		6786727.81		A	0.6

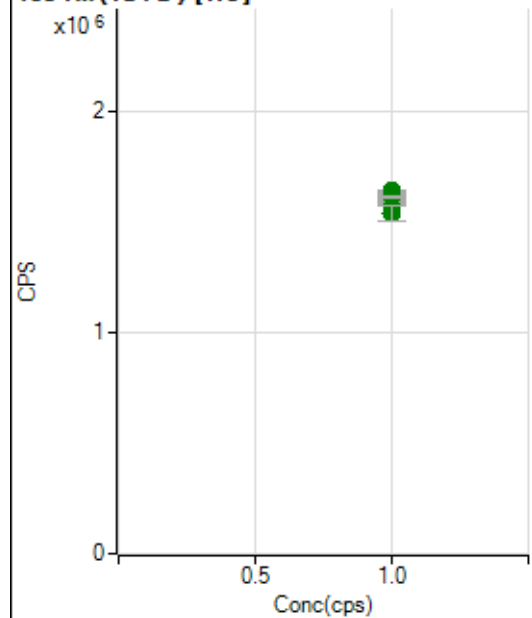
89 Y (ISTD) [He]



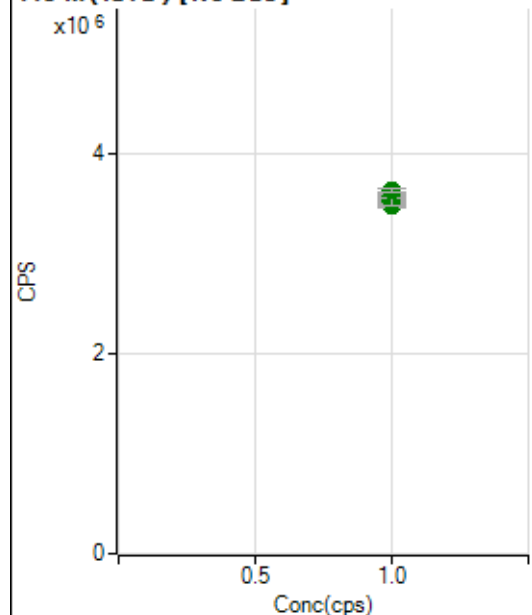
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		706310.04		P	1.3
2	☐	1.000		717160.67		P	0.2
3	☐	1.000		712742.96		P	1.4
4	☐	1.000		721136.98		P	0.8
5	☐	1.000		728492.63		P	0.3
6	☐	1.000		730756.50		P	0.3
7	☐	1.000		720586.83		P	0.5
8	☐	1.000		726656.39		P	0.4
9	☐	1.000		715426.55		P	5.1

103 Rh (ISTD) [No Gas]

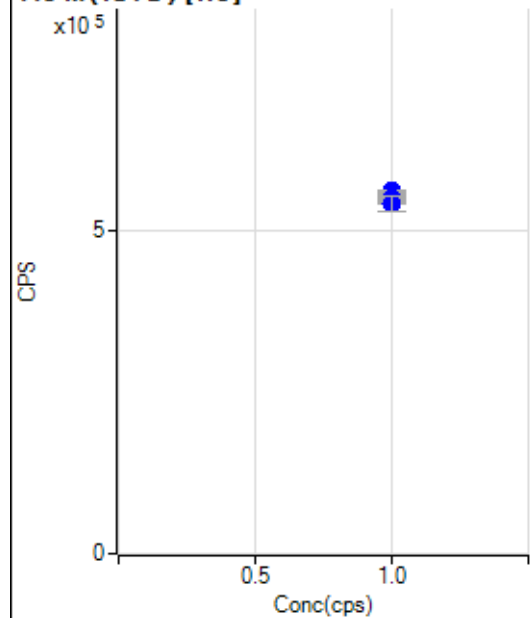
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3434485.88		A	0.2
2	☐	1.000		3453232.89		A	1.0
3	☐	1.000		3518959.46		A	1.1
4	☐	1.000		3443408.06		A	1.3
5	☐	1.000		3453626.73		A	1.4
6	☐	1.000		3420437.88		A	1.3
7	☐	1.000		3452056.76		A	3.0
8	☐	1.000		3422243.17		A	2.0
9	☐	1.000		3465858.50		A	0.2

103 Rh (ISTD) [He]

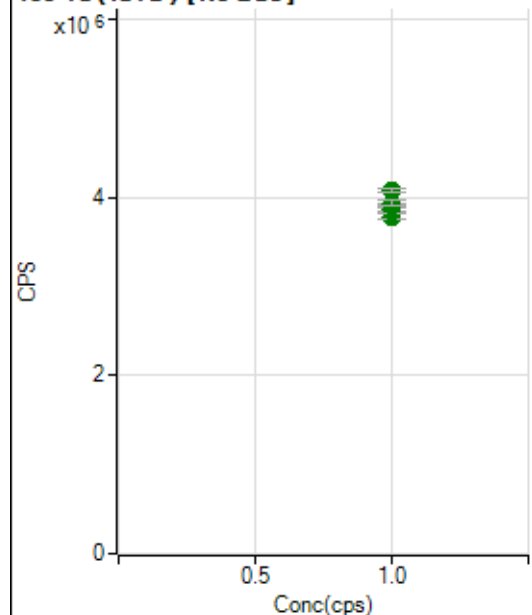
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1578447.69		A	1.2
2	☐	1.000		1625371.87		A	0.8
3	☐	1.000		1597017.27		A	2.1
4	☐	1.000		1615486.92		A	0.6
5	☐	1.000		1638018.07		A	0.1
6	☐	1.000		1621136.47		A	0.3
7	☐	1.000		1591416.76		A	0.6
8	☐	1.000		1610795.22		A	1.0
9	☐	1.000		1536849.30		A	4.9

115 In (ISTD) [No Gas]

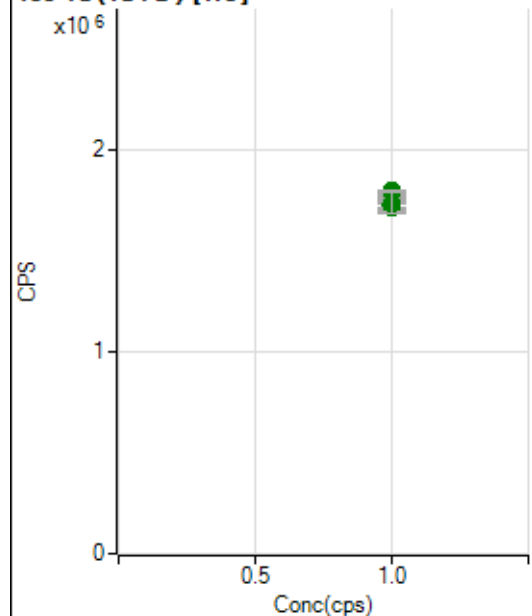
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3496595.22		A	1.2
2	☐	1.000		3558671.11		A	1.1
3	☐	1.000		3537045.71		A	1.3
4	☐	1.000		3548860.84		A	0.9
5	☐	1.000		3562842.08		A	0.7
6	☐	1.000		3550565.85		A	1.1
7	☐	1.000		3584136.38		A	1.3
8	☐	1.000		3526398.93		A	1.9
9	☐	1.000		3635679.28		A	1.0

115 In (ISTD) [He]

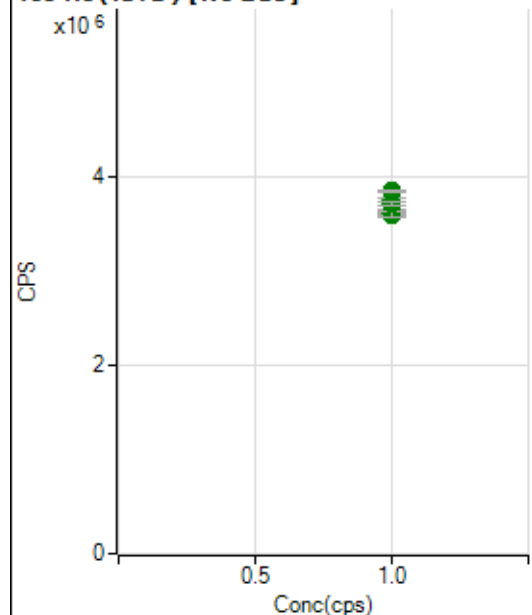
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		545612.21		P	1.6
2	☐	1.000		558672.69		P	0.1
3	☐	1.000		551754.37		P	1.8
4	☐	1.000		555084.43		P	1.1
5	☐	1.000		562399.90		P	0.3
6	☐	1.000		562068.04		P	0.3
7	☐	1.000		548496.47		P	0.4
8	☐	1.000		550935.00		P	0.4
9	☐	1.000		542924.66		P	4.6

159 Tb (ISTD) [No Gas]

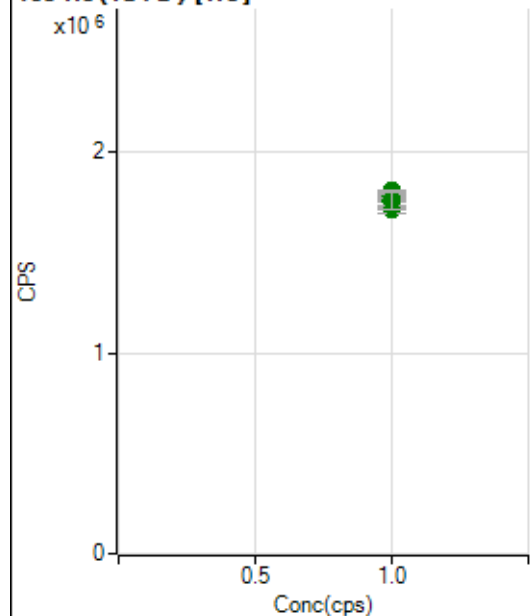
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3785063.94		A	2.0
2	☐	1.000		3831439.15		A	0.7
3	☐	1.000		3872794.11		A	1.7
4	☐	1.000		3902139.73		A	0.5
5	☐	1.000		3883593.17		A	2.3
6	☐	1.000		3865469.21		A	1.9
7	☐	1.000		3905185.50		A	0.6
8	☐	1.000		3935440.25		A	1.7
9	☐	1.000		4069655.57		A	1.1

159 Tb (ISTD) [He]

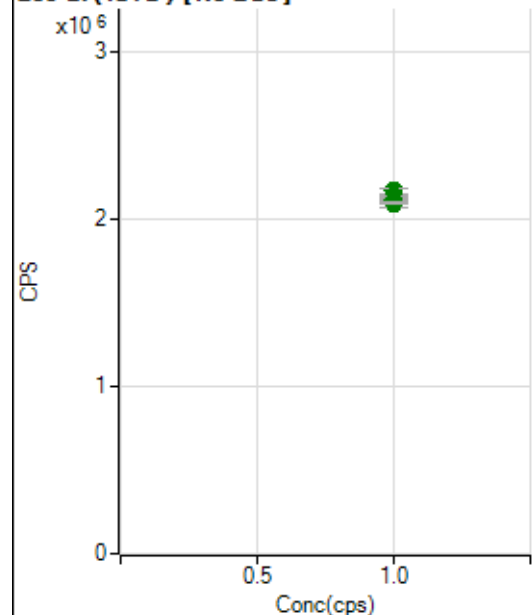
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1713327.02		A	0.9
2	☐	1.000		1725003.41		A	0.8
3	☐	1.000		1722455.79		A	2.4
4	☐	1.000		1760730.29		A	1.5
5	☐	1.000		1760564.78		A	1.5
6	☐	1.000		1791783.96		A	1.1
7	☐	1.000		1761129.14		A	0.8
8	☐	1.000		1799726.21		A	0.4
9	☐	1.000		1740130.41		A	6.4

165 Ho (ISTD) [No Gas]

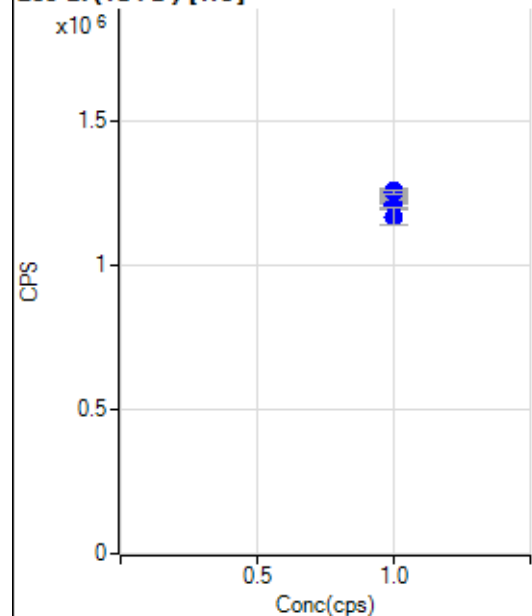
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3609837.93		A	1.7
2	☐	1.000		3593708.59		A	0.2
3	☐	1.000		3622203.64		A	0.5
4	☐	1.000		3619070.26		A	1.3
5	☐	1.000		3596263.84		A	0.8
6	☐	1.000		3601449.51		A	1.8
7	☐	1.000		3746283.29		A	1.2
8	☐	1.000		3699548.87		A	1.2
9	☐	1.000		3842798.65		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1711522.09		A	1.4
2	☐	1.000		1768885.20		A	1.3
3	☐	1.000		1736760.04		A	1.9
4	☐	1.000		1752506.33		A	1.8
5	☐	1.000		1778906.21		A	1.2
6	☐	1.000		1808443.86		A	0.3
7	☐	1.000		1768494.87		A	0.7
8	☐	1.000		1801011.03		A	1.1
9	☐	1.000		1762419.59		A	4.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2109610.85		A	0.4
2	☐	1.000		2105307.38		A	0.2
3	☐	1.000		2122883.44		A	1.3
4	☐	1.000		2088741.38		A	2.0
5	☐	1.000		2113012.05		A	1.0
6	☐	1.000		2111188.98		A	1.1
7	☐	1.000		2170675.47		A	1.4
8	☐	1.000		2140010.26		A	0.2
9	☐	1.000		2102393.01		A	0.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1207208.55		P	2.0
2	☐	1.000		1217858.41		P	0.6
3	☐	1.000		1209501.26		P	2.2
4	☐	1.000		1222562.07		P	0.6
5	☐	1.000		1245969.10		P	1.1
6	☐	1.000		1256357.06		P	1.3
7	☐	1.000		1231279.29		P	0.5
8	☐	1.000		1251392.96		P	1.0
9	☐	1.000		1168452.79		P	5.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8111020MS.b
Acq. Date-Time 2020-11-10 12:08:49
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		1777	17771.35			1.989	5.000
24		22587	225865.68			2.223	5.000
25		3002	30018.59			2.681	5.000
26		3376	33764.57			2.110	5.000
59		11760	117601.09			2.165	5.000
113		1868	18675.57			1.876	5.000
115		6399	63988.63			2.728	5.000
206		1973	19728.84			2.395	5.000
207		1645	16446.51			1.910	5.000
208		4053	40533.93			1.836	5.000
220		1	8.50			14.409	

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

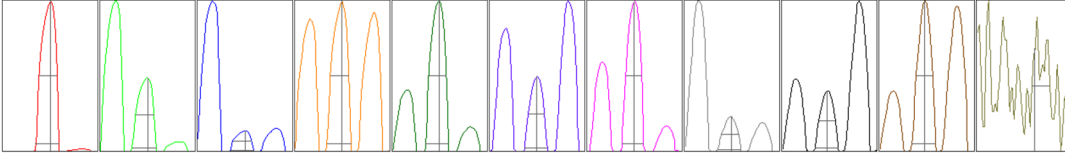
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1790	1793	1714	1799	1790
24	22684	22659	21721	22897	22971
25	3021	2985	2871	3068	3063
26	3381	3402	3253	3420	3426
59	11756	11841	11327	11911	11965
113	1854	1900	1813	1887	1885
115	6587	6522	6150	6427	6308
206	1968	1963	1906	1990	2037
207	1630	1660	1601	1648	1684
208	4010	4092	3955	4062	4148

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	3353.98	9.05	8.90 - 9.10	
24	40814.92	24.05	23.90 - 24.10	
25	5452.08	25.05	24.90 - 25.10	
26	6251.62	26.00	25.90 - 26.10	
59	22566.40	59.00	58.90 - 59.10	
113	3871.61	113.00	112.90 - 113.10	
115	13188.12	115.00	114.90 - 115.10	
206	3894.15	206.00	205.90 - 206.10	
207	3260.65	206.95	206.90 - 207.10	
208	8152.28	207.95	207.90 - 208.10	
220	1.10	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.725	0.900	
24	0.57	0.772	0.900	
25	0.59	0.738	0.900	
26	0.58	0.772	0.900	
59	0.55	0.726	0.900	
113	0.50	0.717	0.900	
115	0.50	0.683	0.900	
206	0.53	0.736	0.900	
207	0.52	0.737	0.900	
208	0.52	0.758	0.900	
220	0.56			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 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	10.9 V	Deflect	14.4 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2828	28277.71			0.499	
89		6647	66473.92			1.614	
205		5299	52994.78			1.170	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2806	2823	2832	2844	2833
89	6534	6560	6630	6785	6727
205	5309	5253	5247	5401	5287

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 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	10.9 V	Deflect	4.6 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	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1320 V