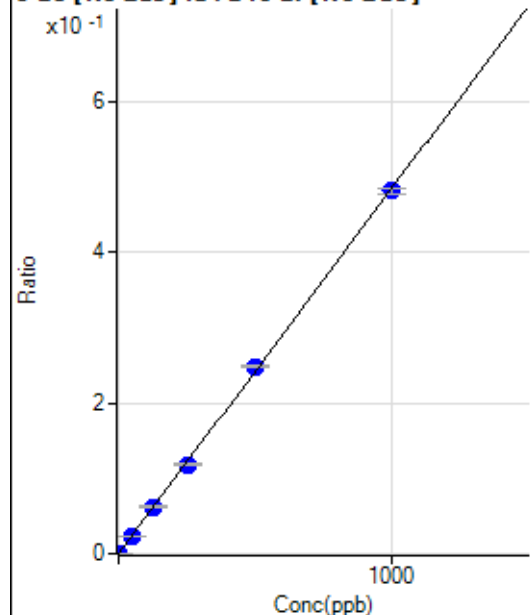


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8042721MS.b\
Analysis File: P8042721MS.batch.bin
DA Date-Time: 2021-04-28 01:28:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-04-27 13:00:54
2	006CALS.d	S02	2021-04-27 13:03:57
3	008CALS.d	S03	2021-04-27 13:09:59
4	009CALS.d	S04	2021-04-27 13:12:59
5	010CALS.d	S05	2021-04-27 13:16:00
6	011CALS.d	S06	2021-04-27 13:18:58
7	012CALS.d	S07	2021-04-27 13:21:58
8	013CALS.d	S08	2021-04-27 13:24:56

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.33	0.0000	P	46.8
2	☐	1.000	1.004	485.91	0.0005	P	5.3
3	☐	50.000	48.713	23634.25	0.0236	P	3.7
4	☐	125.000	128.842	58789.98	0.0625	P	6.7
5	☐	250.000	243.747	116131.70	0.1181	P	3.3
6	☐	500.000	513.776	232227.20	0.2490	P	0.1
7	☐	1000.000	994.259	466081.78	0.4818	P	1.3
8	☐			118.64	0.0001	P	7.3

$$y = 4.8457\text{E-}004 * x + 2.9609\text{E-}005$$

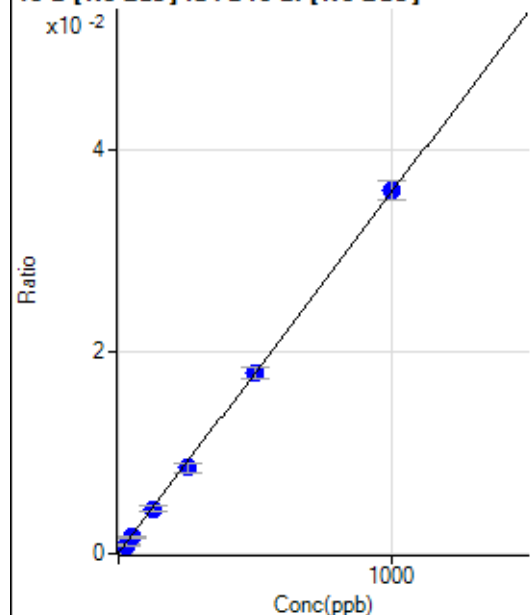
$$R = 0.9998$$

$$DL = 0.08585$$

$$BEC = 0.0611$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	39.32	0.0000	P	14.8
2	☐	25.000	21.811	774.53	0.0008	P	12.3
3	☐	50.000	45.831	1682.44	0.0017	P	7.5
4	☐	125.000	123.507	4182.45	0.0044	P	14.7
5	☐	250.000	236.183	8322.08	0.0085	P	10.4
6	☐	500.000	499.993	16691.54	0.0179	P	6.5
7	☐	1000.000	1003.933	34711.29	0.0359	P	5.4
8	☐			5016.54	0.0052	P	10.6

$$y = 3.5673\text{E-}005 * x + 4.3711\text{E-}005$$

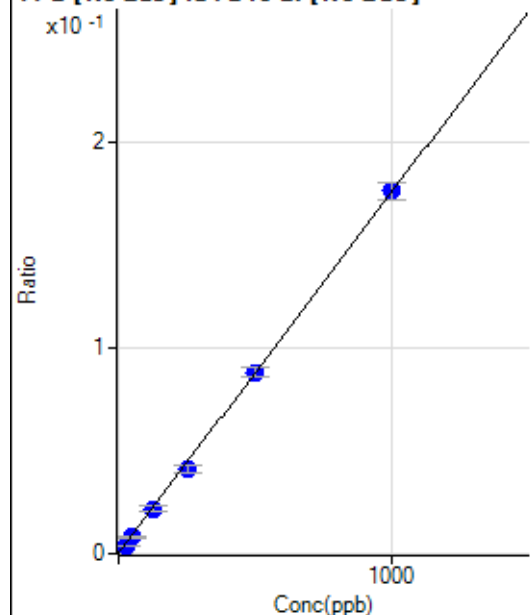
$$R = 0.9999$$

$$DL = 0.5452$$

$$BEC = 1.225$$

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	159.97	0.0002	P	17.3
2	☐	25.000	21.081	3651.74	0.0039	P	6.5
3	☐	50.000	45.734	8228.05	0.0082	P	8.5
4	☐	125.000	121.960	20280.70	0.0216	P	13.2
5	☐	250.000	232.563	40267.22	0.0410	P	10.5
6	☐	500.000	501.905	82361.84	0.0882	P	5.4
7	☐	1000.000	1004.098	170721.87	0.1764	P	4.9
8	☐			24716.50	0.0254	P	11.0

$$y = 1.7547E-004 * x + 1.7808E-004$$

$$R = 0.9998$$

$$DL = 0.5255$$

$$BEC = 1.015$$

Weight: <None>

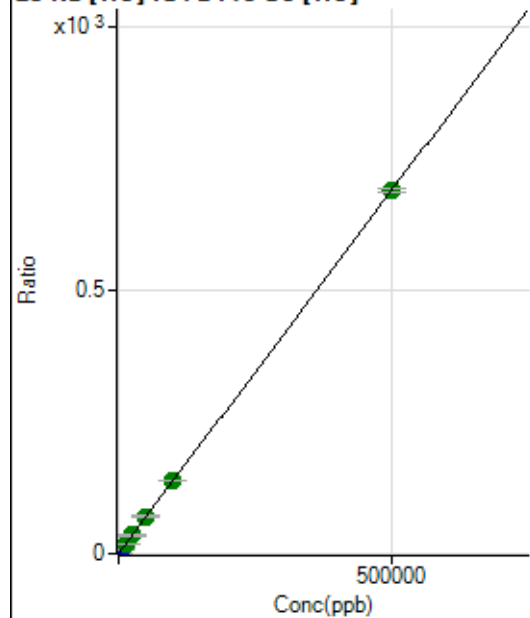
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			3895533.12		A	2.2
2	☐			4006641.89		A	2.4
3	☐			4580265.90		A	2.1
4	☐			4701404.27		A	1.8
5	☐			4710476.71		A	2.0
6	☐			4755941.95		A	0.8
7	☐			4855025.50		A	1.8
8	☐			4709687.65		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40464.74		P	2.0
2	☐			42238.94		P	0.2
3	☐			48561.47		P	0.3
4	☐			48915.08		P	1.8
5	☐			49216.25		P	1.9
6	☐			50922.03		P	0.6
7	☐			50679.65		P	1.1
8	☐			53099.14		P	0.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12775.33	0.2141	P	0.7
2	☐	500.000	496.496	54410.26	0.8992	P	1.7
3	☐	5000.000	5044.473	439207.75	7.1750	P	0.2
4	☐	12500.000	12949.115	1091727.55	18.0827	A	1.0
5	☐	25000.000	25103.833	2155556.28	34.8551	A	1.6
6	☐	50000.000	51303.355	4296475.18	71.0081	A	2.3
7	☐	100000.00	100821.21	8487600.45	139.3383	A	0.2
8	☐	500000.00	499688.56	42232500.60	689.7393	A	1.0

$$y = 0.0014 * x + 0.2141$$

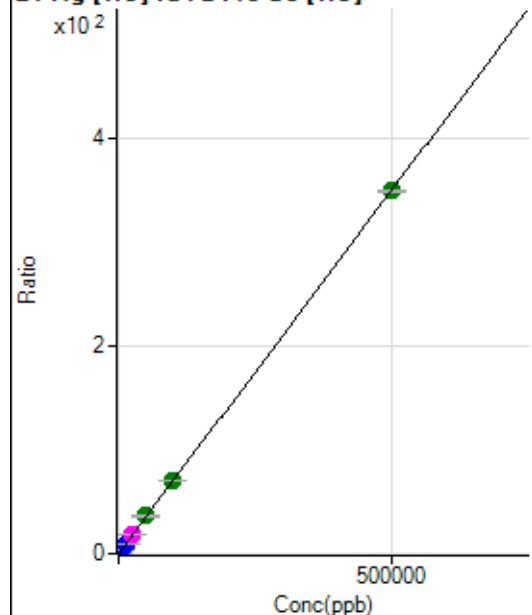
$$R = 1.0000$$

$$DL = 3.323$$

$$BEC = 155.1$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	616.70	0.0103	P	20.2
2	☐	500.000	504.134	21966.95	0.3630	P	2.0
3	☐	5000.000	5158.245	221540.19	3.6191	P	0.5
4	☐	12500.000	13011.966	550243.25	9.1136	P	0.6
5	☐	25000.000	25329.278	1096476.27	17.7309	M	0.8
6	☐	50000.000	52032.093	2203188.96	36.4124	A	2.3
7	☐	100000.00	101497.02	4325978.31	71.0185	A	0.5
8	☐	500000.00	499466.53	21396152.73	349.4413	A	0.6

$$y = 6.9961\text{E-}004 * x + 0.0103$$

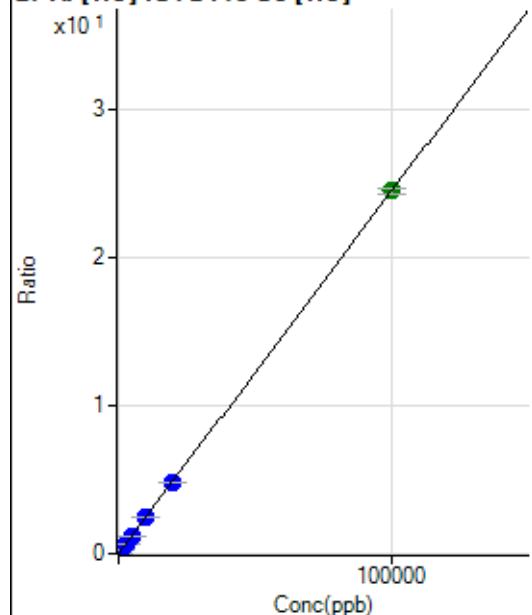
$$R = 1.0000$$

$$DL = 8.958$$

$$BEC = 14.77$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	418.71	0.0070	P	2.2
2	☐	20.000	20.008	720.76	0.0119	P	7.3
3	☐	1000.000	1076.448	16546.89	0.2703	P	2.6
4	☐	2500.000	2494.814	37268.92	0.6173	P	0.9
5	☐	5000.000	4849.117	73790.03	1.1933	P	0.9
6	☐	10000.000	9936.687	147507.88	2.4378	P	1.8
7	☐	20000.000	19673.946	293592.50	4.8198	P	0.8
8	☐	100000.00	100078.45	1499366.10	24.4891	A	1.4

$$y = 2.4463\text{E-}004 * x + 0.0070$$

$$R = 1.0000$$

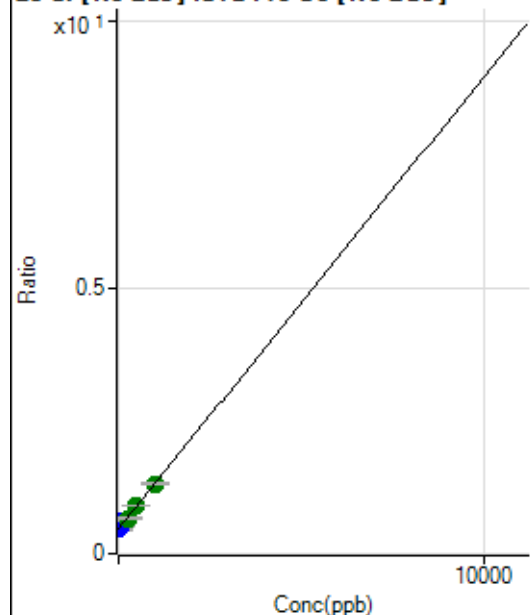
$$DL = 1.86$$

$$BEC = 28.68$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	644612.66	0.4704	P	9.1
2	☐	10.000	-4.745	664603.89	0.4663	P	4.5
3	☐	50.000	39.988	744897.20	0.5043	P	4.3
4	☐	125.000	182.244	875067.34	0.6252	P	8.3
5	☐	250.000	229.882	1001773.68	0.6657	A	2.0
6	☐	500.000	507.007	1323976.54	0.9011	A	2.3
7	☐	1000.000	995.019	1931240.47	1.3157	A	2.1
8	☐			826775.82	0.5628	P	4.2

$$y = 8.4960E-004 * x + 0.4704$$

$$R = 0.9975$$

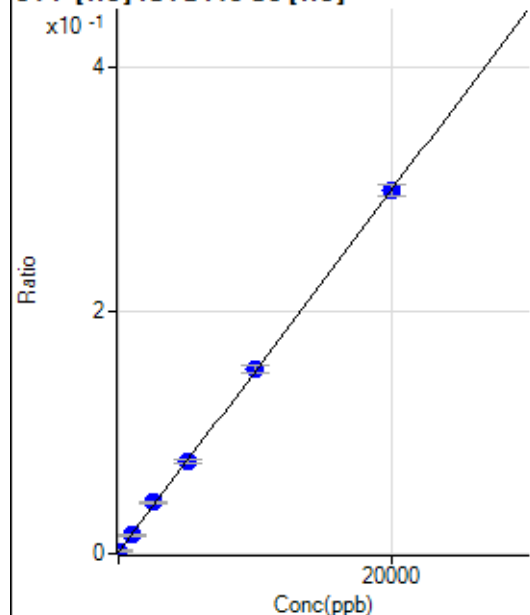
$$DL = 151.7$$

$$BEC = 553.6$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-22.464	88.89	0.0015	P	28.1
2	☐	0.000	22.464	130.56	0.0022	P	28.3
3	☐	1000.000	908.738	938.95	0.0153	P	9.0
4	☐	2500.000	2709.142	2541.97	0.0421	P	4.4
5	☐	5000.000	4984.938	4695.34	0.0759	P	4.9
6	☐	10000.000	10070.136	9167.02	0.1515	P	3.5
7	☐	20000.000	19947.118	18172.94	0.2983	P	3.1
8	☐			136.11	0.0022	P	18.3

$$y = 1.4866E-005 * x + 0.0018$$

$$R = 0.9999$$

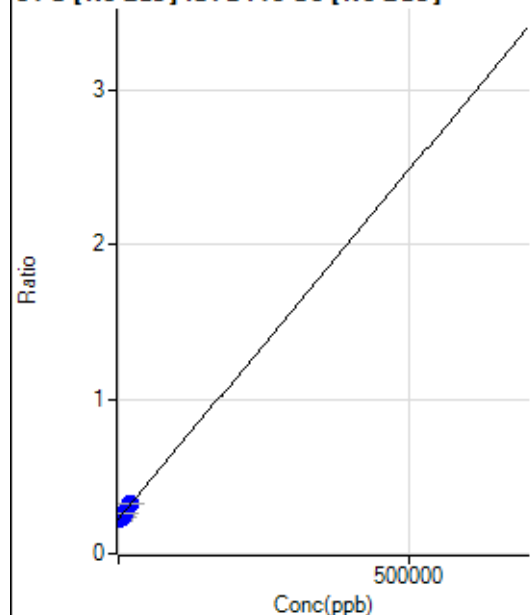
$$DL = 103.8$$

$$BEC = 122.6$$

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	745.041	313458.91	0.2287	P	8.6
2	☐	0.000	-745.041	316395.65	0.2219	P	3.5
3	☐	1000.000	-1200.113	324649.13	0.2199	P	5.5
4	☐	2500.000	3198.268	335889.28	0.2397	P	5.4
5	☐	5000.000	2123.780	353423.85	0.2349	P	1.4
6	☐	10000.000	8733.974	388850.91	0.2647	P	0.8
7	☐	20000.000	21374.790	471966.96	0.3216	P	2.6
8	☐			299221.10	0.2036	P	2.0

$$y = 4.5069E-006 * x + 0.2253$$

$$R = 0.9817$$

$$DL = 9188$$

$$BEC = 4.999E+04$$

Weight: <None>

Min Conc: 0

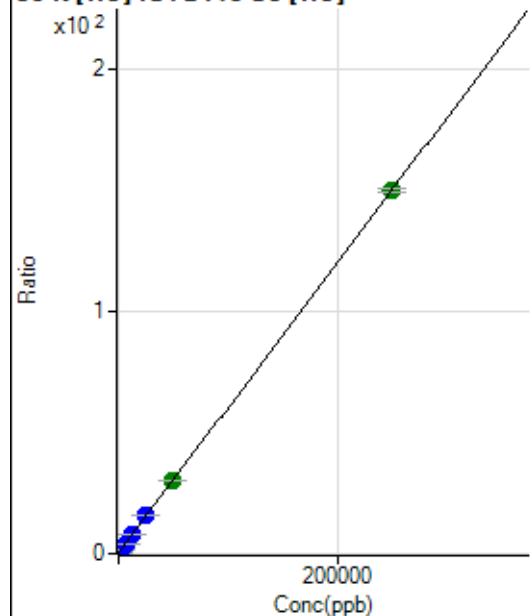
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			176012.11		P	0.9
2	☐			178291.83		P	1.5
3	☐			217099.39		P	1.6
4	☐			206916.81		P	1.1
5	☐			207390.45		P	0.0
6	☐			208009.41		P	0.6
7	☐			199284.55		P	1.0
8	☐			213844.73		P	1.7

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1530.68		P	3.5
2	☐			1869.62		P	12.6
3	☐			2216.90		P	6.3
4	☐			2016.87		P	8.0
5	☐			2122.44		P	4.3
6	☐			1914.07		P	4.0
7	☐			1872.40		P	7.7
8	☐			2022.42		P	15.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22412.43	0.3755	P	0.8
2	☐	500.000	468.755	39671.88	0.6556	P	0.3
3	☐	2500.000	2519.017	115098.17	1.8803	P	0.5
4	☐	6250.000	6308.088	250171.01	4.1437	P	0.7
5	☐	12500.000	12530.223	486093.33	7.8606	P	0.9
6	☐	25000.000	25700.221	951635.43	15.7278	P	2.1
7	☐	50000.000	50049.927	1844065.10	30.2733	A	0.7
8	☐	250000.00	249916.90	9163809.84	149.6654	A	1.2

$$y = 5.9736E-004 * x + 0.3755$$

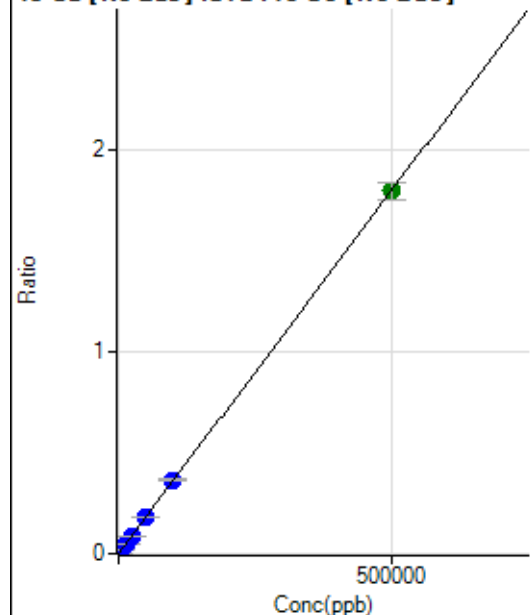
$$R = 1.0000$$

$$DL = 15.45$$

$$BEC = 628.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.73	0.0001	P	12.6
2	☐	500.000	462.674	2534.08	0.0018	P	6.4
3	☐	5000.000	4922.494	26364.20	0.0178	P	3.4
4	☐	12500.000	12909.466	65272.61	0.0466	P	7.1
5	☐	25000.000	24149.114	131076.82	0.0871	P	1.5
6	☐	50000.000	49926.208	264393.77	0.1800	P	1.2
7	☐	100000.00	101617.45	537390.10	0.3662	P	1.4
8	☐	500000.00	499717.00	2644449.40	1.8002	A	4.6

$$y = 3.6022\text{E-}006 * x + 1.1227\text{E-}004$$

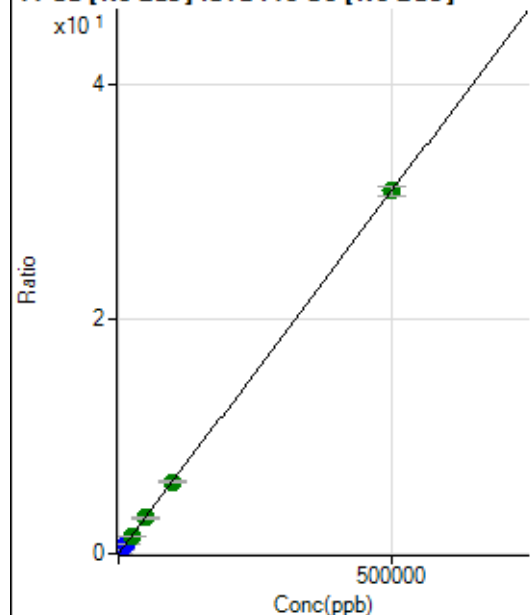
$$R = 1.0000$$

$$DL = 11.76$$

$$BEC = 31.17$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13272.02	0.0097	P	8.5
2	☐	500.000	468.385	55035.04	0.0386	P	3.3
3	☐	5000.000	4764.217	448781.07	0.3039	P	4.8
4	☐	12500.000	12657.739	1108099.84	0.7913	P	7.0
5	☐	25000.000	24028.940	2247510.68	1.4935	A	0.9
6	☐	50000.000	49184.769	4476349.84	3.0469	A	2.6
7	☐	100000.00	99251.405	9008239.40	6.1386	A	2.2
8	☐	500000.00	500278.24	45402991.37	30.9027	A	2.6

$$y = 6.1752\text{E-}005 * x + 0.0097$$

$$R = 1.0000$$

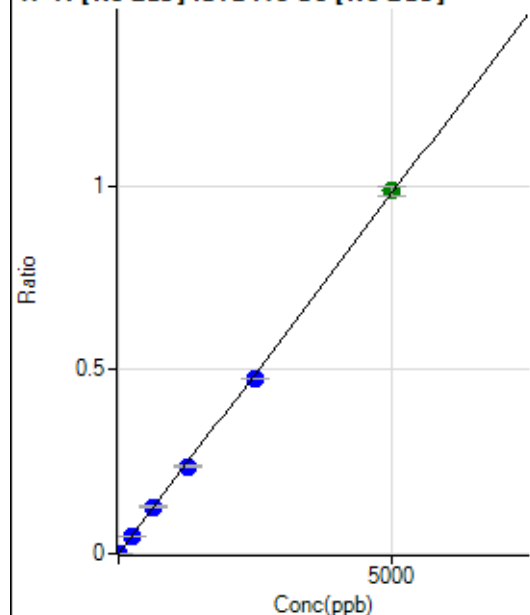
$$DL = 39.76$$

$$BEC = 156.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	211.12	0.0002	P	17.8
2	☐	5.000	5.049	1622.35	0.0011	P	9.0
3	☐	250.000	241.446	69969.05	0.0474	P	5.4
4	☐	625.000	650.688	178490.28	0.1275	P	7.1
5	☐	1250.000	1208.758	356126.56	0.2366	P	1.6
6	☐	2500.000	2432.460	699400.46	0.4761	P	0.6
7	☐	5000.000	5041.297	1447450.58	0.9865	A	3.0
8	☐			444.46	0.0003	P	11.4

$$y = 1.9565E-004 * x + 1.5175E-004$$

$$R = 0.9998$$

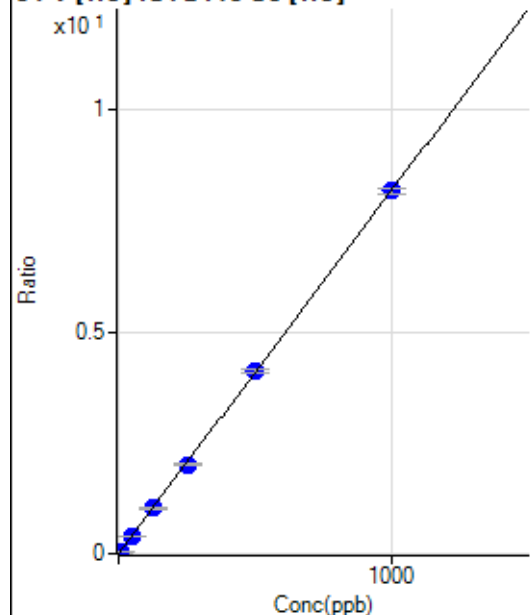
$$DL = 0.4141$$

$$BEC = 0.7756$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.22	0.0002	P	79.2
2	☐	5.000	4.939	2458.02	0.0406	P	8.3
3	☐	50.000	49.682	24888.36	0.4066	P	0.6
4	☐	125.000	124.620	61557.09	1.0195	P	0.5
5	☐	250.000	244.954	123923.19	2.0038	P	1.1
6	☐	500.000	504.005	249457.69	4.1228	P	1.9
7	☐	1000.000	999.323	497916.91	8.1743	P	1.4
8	☐			113.33	0.0019	P	24.5

$$y = 0.0082 * x + 2.0531E-004$$

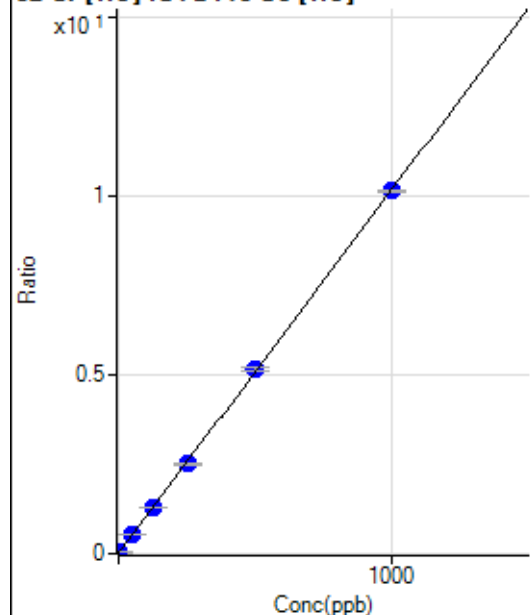
$$R = 1.0000$$

$$DL = 0.05961$$

$$BEC = 0.0251$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	644.47	0.0108	P	2.9
2	☐	2.000	2.011	1887.92	0.0312	P	2.6
3	☐	50.000	49.748	31551.43	0.5154	P	0.9
4	☐	125.000	126.719	78253.62	1.2962	P	1.0
5	☐	250.000	245.635	154750.58	2.5025	P	0.9
6	☐	500.000	506.221	311351.34	5.1458	P	2.1
7	☐	1000.000	997.779	617173.59	10.1320	P	0.7
8	☐			4627.45	0.0756	P	3.7

$$y = 0.0101 * x + 0.0108$$

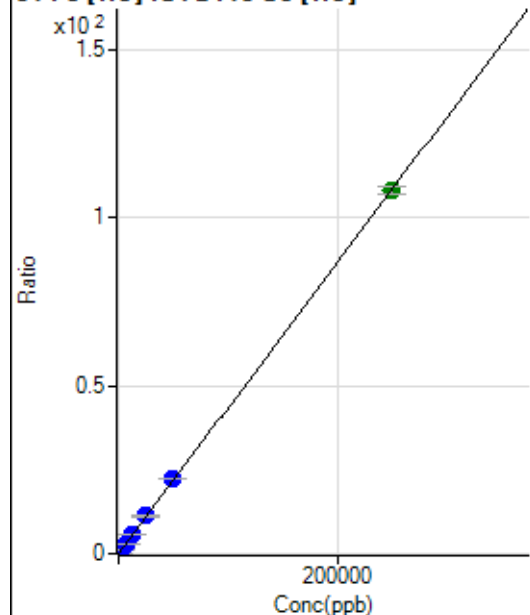
$$R = 1.0000$$

$$DL = 0.09418$$

$$BEC = 1.065$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	525.95	0.0088	P	17.9
2	☐	50.000	55.356	1979.81	0.0327	P	3.5
3	☐	2500.000	2580.760	68787.15	1.1238	P	1.1
4	☐	6250.000	6514.486	170445.29	2.8233	P	1.0
5	☐	12500.000	12661.174	338816.14	5.4789	P	0.5
6	☐	25000.000	25940.103	678628.59	11.2158	P	2.1
7	☐	50000.000	51765.427	1362821.91	22.3732	P	0.9
8	☐	250000.00	249537.42	6600661.03	107.8172	A	2.3

$$y = 4.3203E-004 * x + 0.0088$$

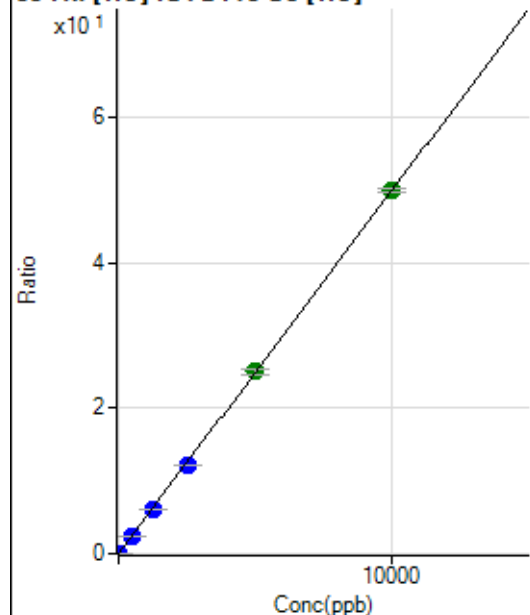
$$R = 1.0000$$

$$DL = 10.94$$

$$BEC = 20.39$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	67.78	0.0011	P	22.7
2	☐	1.000	1.044	383.34	0.0063	P	9.1
3	☐	500.000	491.147	149851.42	2.4480	P	0.1
4	☐	1250.000	1239.102	372765.97	6.1742	P	0.2
5	☐	2500.000	2443.345	752840.80	12.1736	P	0.3
6	☐	5000.000	5025.637	1514822.36	25.0384	A	3.2
7	☐	10000.000	10003.150	3035652.53	49.8358	A	1.0
8	☐			1786.79	0.0292	P	7.7

$$y = 0.0050 * x + 0.0011$$

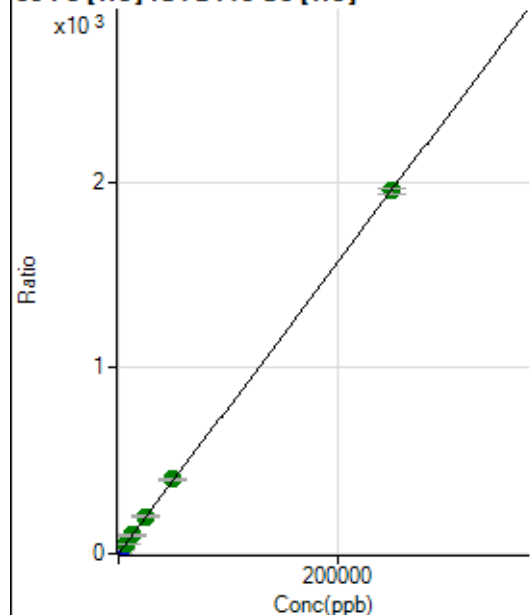
$$R = 1.0000$$

$$DL = 0.1556$$

$$BEC = 0.2282$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3122.62	0.0523	P	4.3
2	☐	50.000	49.363	26536.01	0.4385	P	1.9
3	☐	2500.000	2507.223	1203923.33	19.6682	P	0.9
4	☐	6250.000	6450.134	3050094.60	50.5166	A	0.9
5	☐	12500.000	12633.530	6115558.13	98.8939	A	1.5
6	☐	25000.000	25618.591	12130829.09	200.4858	A	1.9
7	☐	50000.000	50967.378	24292482.03	398.8084	A	1.5
8	☐	250000.00	249732.91	119627069.3	1.953.900	A	1.6

$$y = 0.0078 * x + 0.0523$$

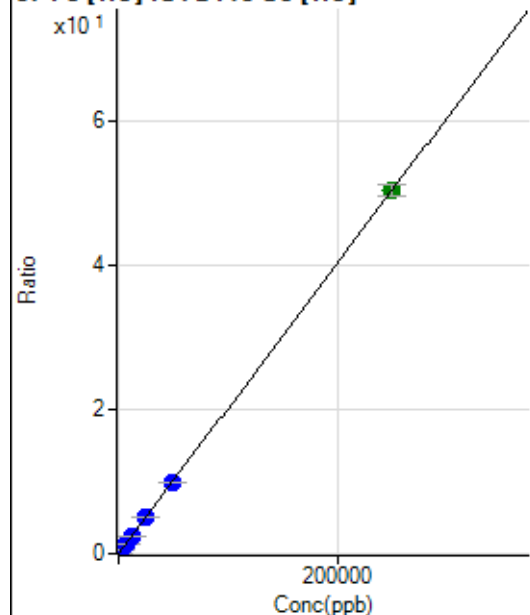
$$R = 1.0000$$

$$DL = 0.8599$$

$$BEC = 6.688$$

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	103.71	0.0017	P	3.1
2	☐	50.000	47.874	688.92	0.0114	P	2.6
3	☐	2500.000	2469.701	30560.83	0.4993	P	0.9
4	☐	6250.000	6279.223	76472.49	1.2667	P	1.3
5	☐	12500.000	12256.961	152794.53	2.4709	P	1.7
6	☐	25000.000	24876.537	303337.45	5.0132	P	1.9
7	☐	50000.000	49347.786	605657.43	9.9429	P	0.7
8	☐	250000.00	250154.51	3085077.18	50.3958	A	3.1

$$y = 2.0145E-004 * x + 0.0017$$

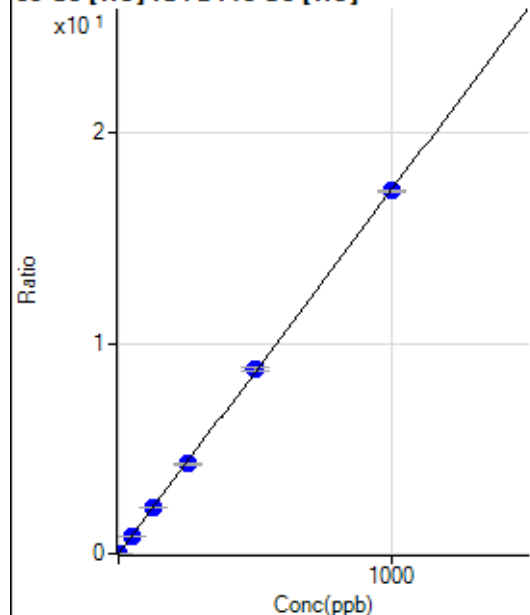
$$R = 1.0000$$

$$DL = 0.7918$$

$$BEC = 8.626$$

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	58.89	0.0010	P	18.6
2	☐	1.000	0.933	1035.61	0.0171	P	7.6
3	☐	50.000	49.748	52710.41	0.8611	P	0.9
4	☐	125.000	125.407	130970.29	2.1693	P	0.5
5	☐	250.000	245.885	262964.06	4.2523	P	1.0
6	☐	500.000	506.841	530293.74	8.7642	P	2.0
7	☐	1000.000	997.570	1050686.76	17.2488	P	0.6
8	☐			1513.43	0.0247	P	2.6

$$y = 0.0173 * x + 9.8740E-004$$

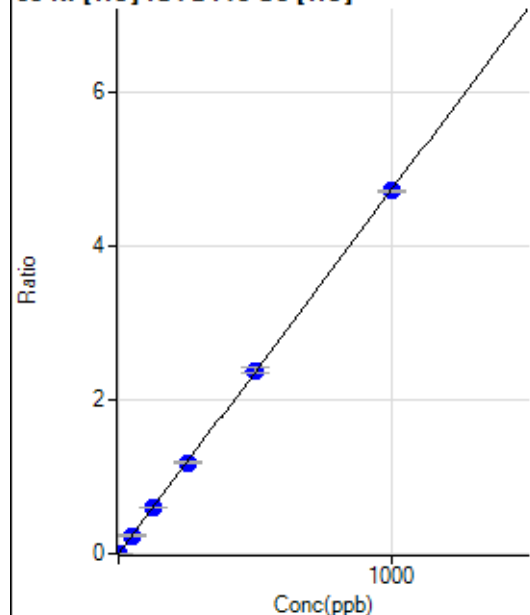
$$R = 1.0000$$

$$DL = 0.03193$$

$$BEC = 0.05711$$

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	37.78	0.0006	P	9.8
2	☐	1.000	1.135	363.34	0.0060	P	2.5
3	☐	50.000	49.921	14490.81	0.2367	P	1.3
4	☐	125.000	127.520	36451.10	0.6038	P	0.5
5	☐	250.000	249.746	73084.35	1.1818	P	1.2
6	☐	500.000	504.618	144446.97	2.3873	P	2.4
7	☐	1000.000	997.443	287398.33	4.7181	P	0.7
8	☐			1003.38	0.0164	P	5.9

$$y = 0.0047 * x + 6.3281E-004$$

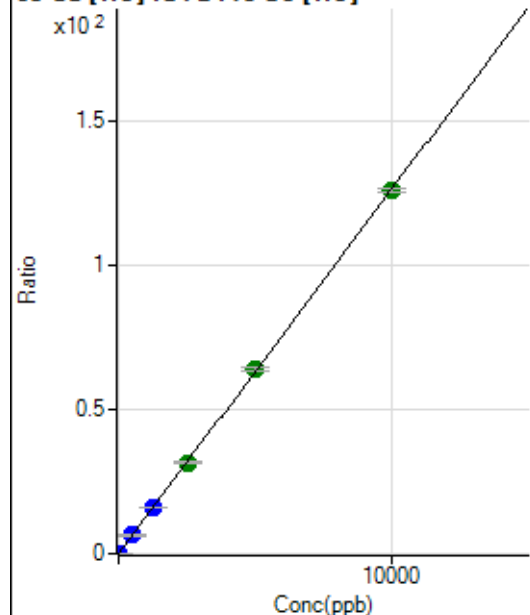
$$R = 1.0000$$

$$DL = 0.03924$$

$$BEC = 0.1338$$

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	198.63	0.0033	P	16.3
2	☐	2.000	1.936	1683.95	0.0278	P	6.2
3	☐	500.000	503.017	389725.70	6.3668	P	0.7
4	☐	1250.000	1274.775	973846.04	16.1301	P	0.4
5	☐	2500.000	2505.245	1960207.35	31.6963	A	0.4
6	☐	5000.000	5068.074	3879353.07	64.1178	A	2.6
7	☐	10000.000	9961.404	7676494.94	126.0217	A	1.2
8	☐			4975.45	0.0813	P	6.2

$$y = 0.0127 * x + 0.0033$$

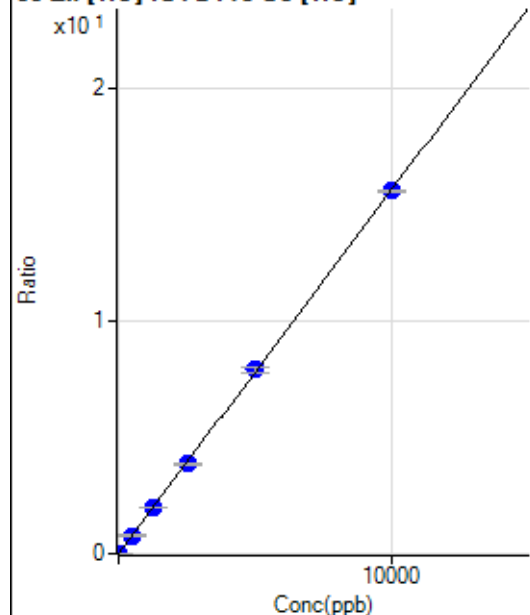
$$R = 1.0000$$

$$DL = 0.1284$$

$$BEC = 0.2632$$

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	41.11	0.0007	P	23.9
2	☐	2.000	2.297	258.89	0.0043	P	2.7
3	☐	500.000	500.419	47896.10	0.7825	P	0.8
4	☐	1250.000	1265.894	119446.91	1.9783	P	0.9
5	☐	2500.000	2466.100	238292.57	3.8533	P	0.7
6	☐	5000.000	5059.678	478295.19	7.9051	P	2.6
7	☐	10000.000	9976.628	949439.75	15.5866	P	0.4
8	☐			2141.30	0.0350	P	6.8

$$y = 0.0016 * x + 6.8951E-004$$

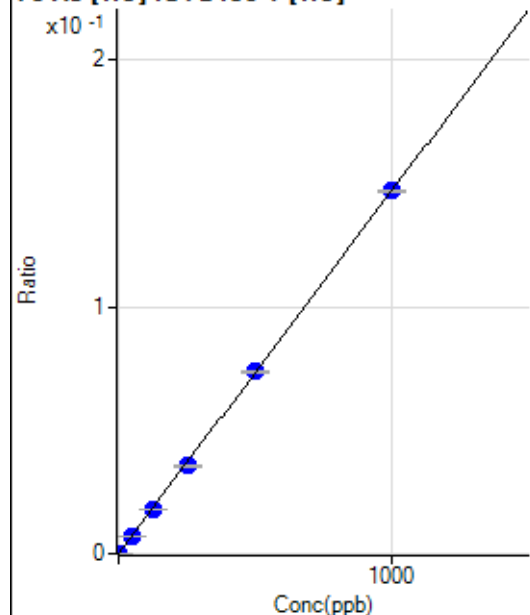
$$R = 1.0000$$

$$DL = 0.316$$

$$BEC = 0.4414$$

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	7.67	0.0000	P	27.1
2	☐	1.000	0.947	72.34	0.0002	P	7.5
3	☐	50.000	48.985	3355.07	0.0072	P	2.1
4	☐	125.000	123.085	8311.28	0.0181	P	0.6
5	☐	250.000	242.610	16796.98	0.0357	P	1.7
6	☐	500.000	502.914	33862.73	0.0739	P	1.2
7	☐	1000.000	1000.681	68041.94	0.1471	P	0.6
8	☐			37.00	0.0001	P	19.9

$$y = 1.4697E-004 * x + 1.7194E-005$$

$$R = 1.0000$$

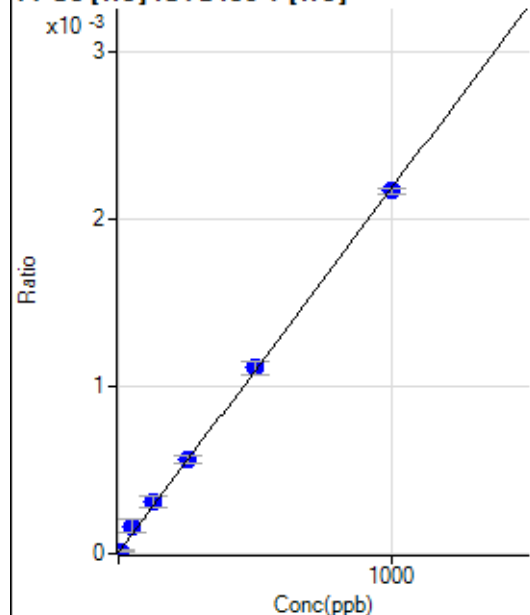
$$DL = 0.09515$$

$$BEC = 0.117$$

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	3.33	0.0000	P	0.4
2	☐	5.000	3.198	6.66	0.0000	P	87.0
3	☐	50.000	72.502	76.67	0.0002	P	46.7
4	☐	125.000	137.551	141.12	0.0003	P	23.2
5	☐	250.000	254.276	264.45	0.0006	P	8.9
6	☐	500.000	506.525	508.90	0.0011	P	7.1
7	☐	1000.000	992.983	1004.49	0.0022	P	1.6
8	☐			4.44	0.0000	P	113.7

$$y = 2.1793\text{E-}006 * x + 7.4683\text{E-}006$$

$$R = 0.9997$$

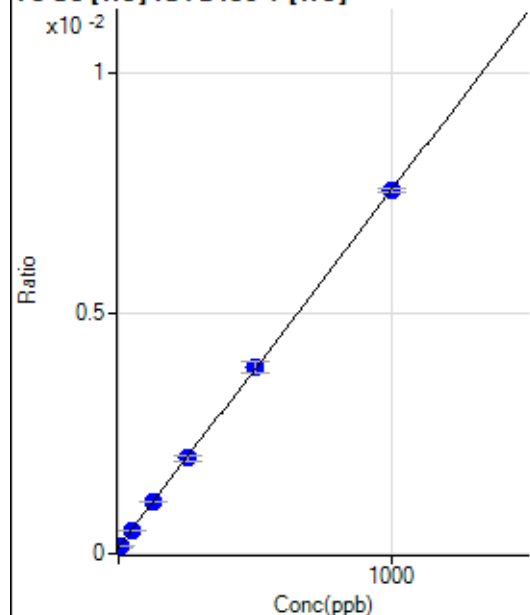
$$DL = 0.04038$$

$$BEC = 3.427$$

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	60.34	0.0001	P	16.9
2	☐	5.000	3.820	75.68	0.0002	P	8.3
3	☐	50.000	46.154	222.03	0.0005	P	7.3
4	☐	125.000	127.327	495.73	0.0011	P	2.8
5	☐	250.000	249.301	934.80	0.0020	P	5.4
6	☐	500.000	504.716	1777.29	0.0039	P	5.7
7	☐	1000.000	997.724	3487.46	0.0075	P	1.0
8	☐			58.68	0.0001	P	9.8

$$y = 7.4201\text{E-}006 * x + 1.3528\text{E-}004$$

$$R = 1.0000$$

$$DL = 9.246$$

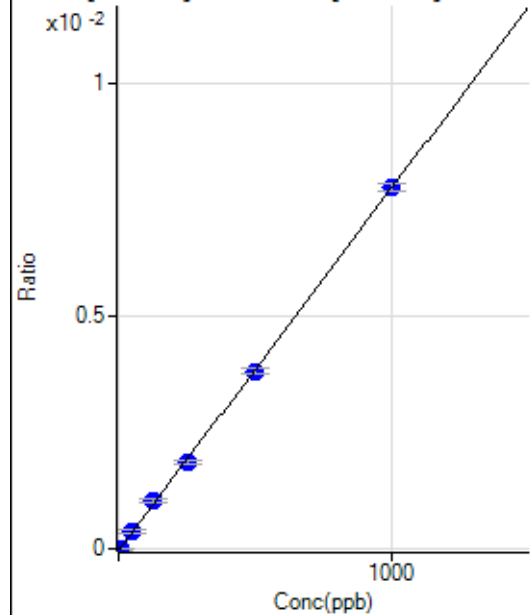
$$BEC = 18.23$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4845.84		P	4.0
2	☐			4915.94		P	6.6
3	☐			4221.67		P	4.5
4	☐			4615.54		P	3.4
5	☐			4398.57		P	4.5
6	☐			4405.24		P	11.7
7	☐			4558.78		P	4.0
8	☐			4368.53		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-86.90	0.0000	P	-48.1
2	☐	5.000	5.365	51.41	0.0000	P	202.2
3	☐	50.000	53.830	1440.80	0.0004	P	15.0
4	☐	125.000	138.057	3590.89	0.0010	P	9.2
5	☐	250.000	243.040	6877.02	0.0019	P	4.1
6	☐	500.000	495.662	13753.81	0.0038	P	2.8
7	☐	1000.000	1002.084	28148.34	0.0078	P	2.5
8	☐			-57.34	0.0000	P	-371.

$$y = 7.7705E-006 * x - 2.6075E-005$$

$$R = 0.9998$$

$$DL = 4.843$$

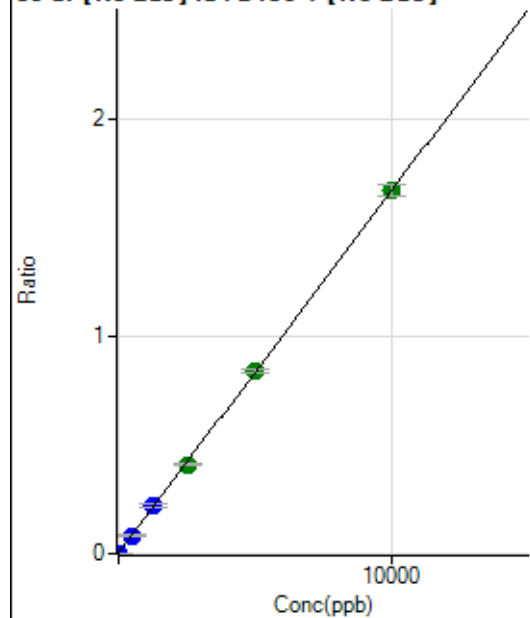
$$BEC = -3.356$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5378.86		P	3.0
2	☐			5223.26		P	1.2
3	☐			5018.72		P	3.0
4	☐			5258.82		P	2.6
5	☐			5304.39		P	1.5
6	☐			5411.09		P	1.9
7	☐			5358.86		P	5.6
8	☐			5407.75		P	3.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8241.55	0.0024	P	9.7
2	☐	1.000	0.358	8647.39	0.0025	P	6.6
3	☐	500.000	484.009	305745.12	0.0831	P	5.9
4	☐	1250.000	1322.045	764291.50	0.2228	P	7.5
5	☐	2500.000	2444.221	1513945.33	0.4099	A	1.7
6	☐	5000.000	5014.484	3013727.13	0.8384	A	2.0
7	☐	10000.000	9998.497	6053912.89	1.6693	A	3.3
8	☐			12289.04	0.0034	P	3.3

$$y = 1.6672E-004 * x + 0.0024$$

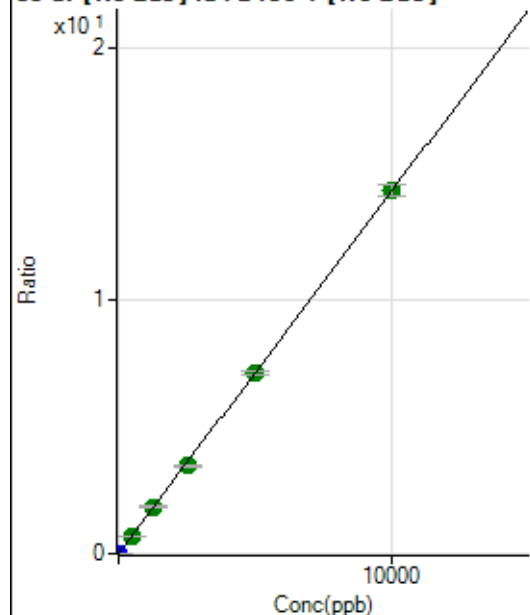
$$R = 0.9999$$

$$DL = 4.238$$

$$BEC = 14.53$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	113.90	0.0000	P	42.2
2	☐	1.000	1.056	5384.53	0.0015	P	5.3
3	☐	500.000	483.350	2544971.82	0.6920	A	6.3
4	☐	1250.000	1296.866	6371517.98	1.8567	A	6.2
5	☐	2500.000	2421.183	12802053.32	3.4663	A	1.2
6	☐	5000.000	4998.379	25727422.80	7.1558	A	1.9
7	☐	10000.000	10015.489	52001203.25	14.3384	A	3.2
8	☐			33747.03	0.0093	P	1.4

$$y = 0.0014 * x + 3.3039E-005$$

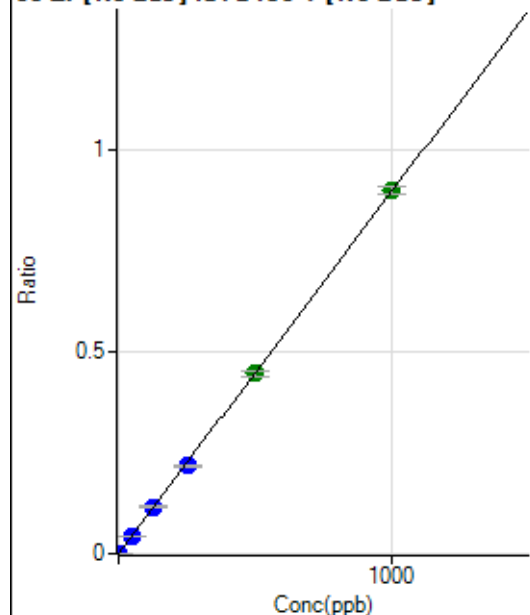
$$R = 0.9999$$

$$DL = 0.02921$$

$$BEC = 0.02308$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	172.23	0.0001	P	7.0
2	☐	1.000	0.997	3286.59	0.0009	P	1.9
3	☐	50.000	47.925	157851.65	0.0429	P	5.7
4	☐	125.000	129.036	396227.93	0.1154	P	6.0
5	☐	250.000	242.504	801058.22	0.2169	P	1.9
6	☐	500.000	497.357	1598665.51	0.4448	A	2.4
7	☐	1000.000	1002.795	3253226.44	0.8968	A	2.0
8	☐			1202.86	0.0003	P	5.7

$$y = 8.9428E-004 * x + 5.0117E-005$$

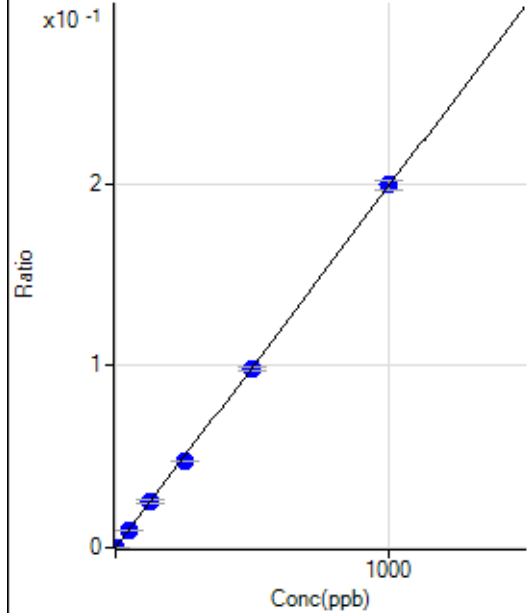
$$R = 0.9999$$

$$DL = 0.01177$$

$$BEC = 0.05604$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	89.0
2	☐	1.000	1.073	761.15	0.0002	P	7.4
3	☐	50.000	48.076	35145.20	0.0096	P	5.4
4	☐	125.000	129.248	88081.74	0.0257	P	7.0
5	☐	250.000	239.653	175761.11	0.0476	P	2.2
6	☐	500.000	494.880	353214.55	0.0983	P	2.2
7	☐	1000.000	1004.712	723805.36	0.1995	P	2.5
8	☐			280.57	0.0001	P	25.9

$$y = 1.9859\text{E-}004 * x + 5.3968\text{E-}006$$

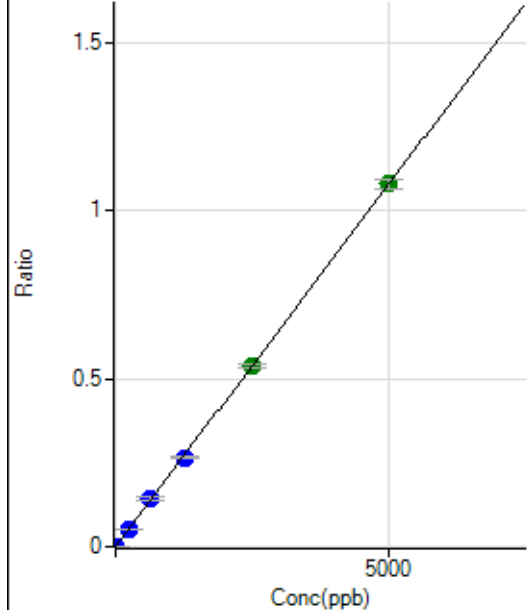
$$R = 0.9999$$

$$DL = 0.07254$$

$$BEC = 0.02718$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	69.45	0.0000	P	27.7
2	☐	5.000	5.034	3853.42	0.0011	P	3.8
3	☐	250.000	242.578	192330.20	0.0523	P	4.4
4	☐	625.000	655.814	484524.96	0.1412	P	6.8
5	☐	1250.000	1223.687	973008.73	0.2635	P	2.1
6	☐	2500.000	2486.649	1924151.87	0.5354	A	2.3
7	☐	5000.000	5009.773	3913612.80	1.0787	A	2.3
8	☐			1319.54	0.0004	P	12.1

$$y = 2.1531\text{E-}004 * x + 2.0476\text{E-}005$$

$$R = 1.0000$$

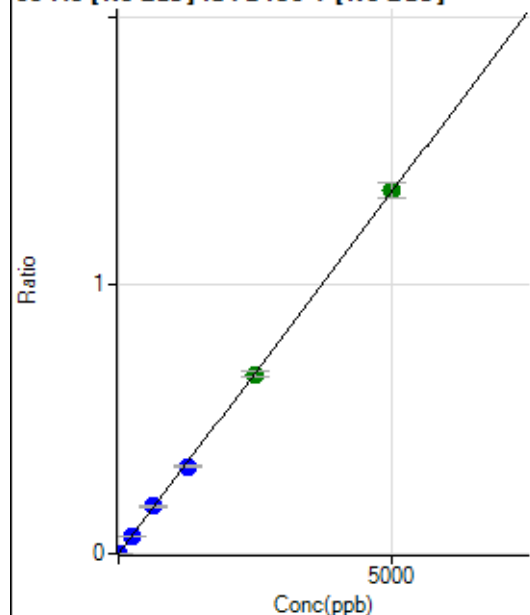
$$DL = 0.07895$$

$$BEC = 0.0951$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.5
2	☐	5.000	4.940	4645.34	0.0013	P	8.3
3	☐	250.000	235.579	233587.65	0.0635	P	5.0
4	☐	625.000	651.632	602450.08	0.1756	P	6.8
5	☐	1250.000	1209.698	1203570.99	0.3259	P	3.8
6	☐	2500.000	2478.975	2400093.37	0.6679	A	2.9
7	☐	5000.000	5017.980	4903095.94	1.3521	A	4.1
8	☐			1591.81	0.0004	P	4.4

$$y = 2.6944\text{E-}004 * x + 2.3206\text{E-}006$$

$$R = 0.9999$$

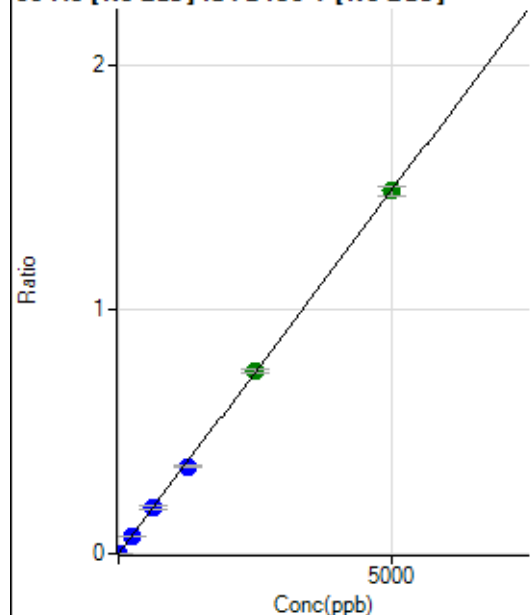
$$DL = 0.02596$$

$$BEC = 0.008613$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.44	0.0000	P	21.9
2	☐	5.000	4.823	5042.71	0.0014	P	4.1
3	☐	250.000	236.299	258347.03	0.0702	P	5.1
4	☐	625.000	644.704	656923.45	0.1915	P	7.6
5	☐	1250.000	1198.969	1315297.90	0.3562	P	2.1
6	☐	2500.000	2527.890	2699285.48	0.7509	A	2.1
7	☐	5000.000	4997.035	5384789.88	1.4844	A	2.4
8	☐			2630.89	0.0007	P	6.8

$$y = 2.9706\text{E-}004 * x + 1.2872\text{E-}005$$

$$R = 0.9999$$

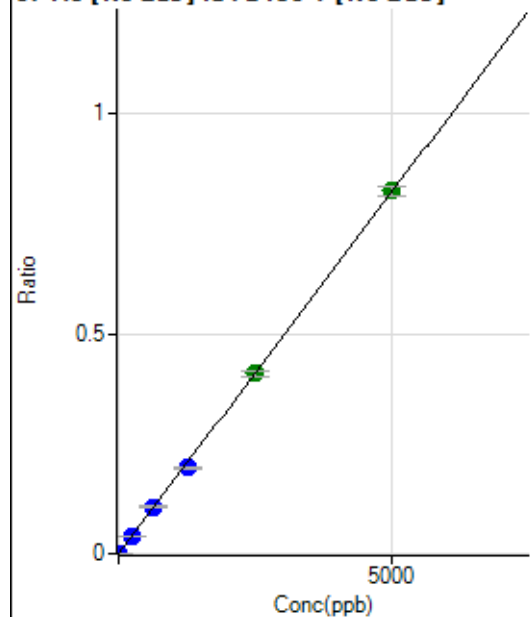
$$DL = 0.02848$$

$$BEC = 0.04333$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.33	0.0000	P	173.2
2	☐	5.000	4.877	2808.70	0.0008	P	2.5
3	☐	250.000	240.622	145540.31	0.0396	P	6.2
4	☐	625.000	651.636	367625.54	0.1072	P	7.0
5	☐	1250.000	1185.110	719616.03	0.1949	P	2.6
6	☐	2500.000	2488.635	1470490.13	0.4092	A	3.7
7	☐	5000.000	5019.045	2994269.55	0.8253	A	2.3
8	☐			1000.06	0.0003	P	6.2

$$y = 1.6443\text{E-}004 * x + 2.7160\text{E-}006$$

$$R = 0.9999$$

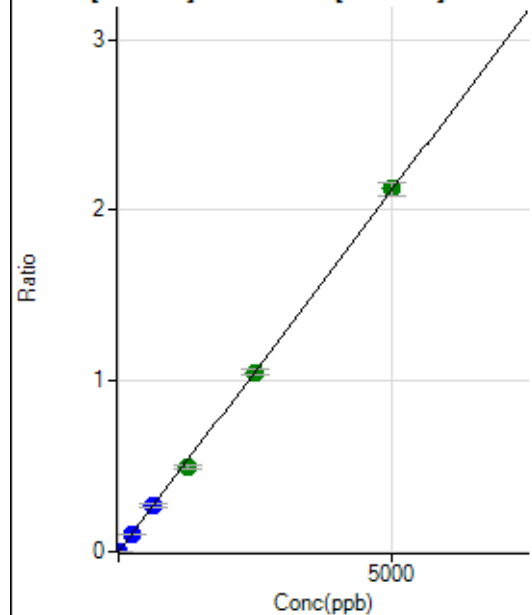
$$DL = 0.08583$$

$$BEC = 0.01652$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	19.44	0.0000	P	61.4
2	☐	5.000	4.778	7068.65	0.0020	P	2.3
3	☐	250.000	239.277	372047.25	0.1012	P	6.7
4	☐	625.000	641.891	931096.79	0.2714	P	6.7
5	☐	1250.000	1176.716	1836961.54	0.4975	A	3.5
6	☐	2500.000	2483.337	3773060.54	1.0499	A	3.1
7	☐	5000.000	5025.078	7704268.05	2.1244	A	3.6
8	☐			2155.79	0.0006	P	9.5

$$y = 4.2277\text{E-}004 * x + 5.5461\text{E-}006$$

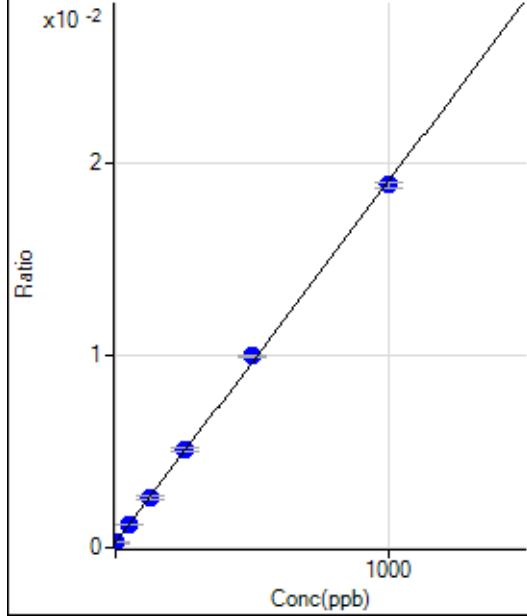
$$R = 0.9999$$

$$DL = 0.02416$$

$$BEC = 0.01312$$

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	516.69	0.0003	P	15.1
2	☐	1.000	3.696	677.81	0.0003	P	12.9
3	☐	50.000	48.929	2519.74	0.0012	P	2.7
4	☐	125.000	123.949	5298.40	0.0026	P	8.0
5	☐	250.000	257.241	10837.87	0.0051	P	2.4
6	☐	500.000	517.384	20766.09	0.0100	P	1.1
7	☐	1000.000	989.680	40944.98	0.0189	P	1.6
8	☐			669.48	0.0003	P	10.4

$$y = 1.8829\text{E-}005 * x + 2.5643\text{E-}004$$

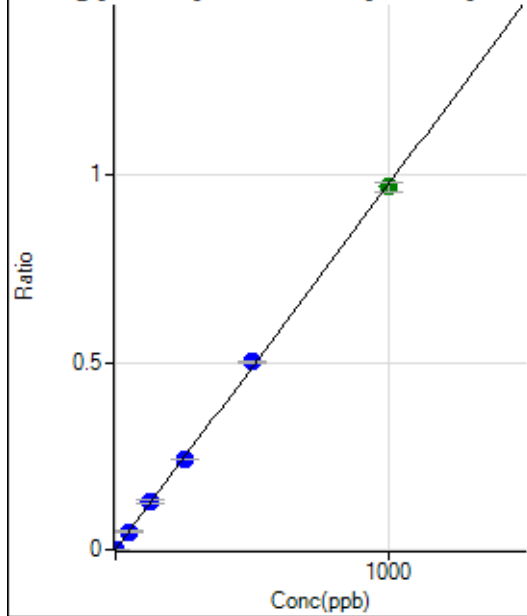
$$R = 0.9997$$

$$DL = 6.155$$

$$BEC = 13.62$$

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	5.56	0.0000	P	173.2
2	☐	1.000	0.815	1666.81	0.0008	P	5.5
3	☐	50.000	48.952	101965.92	0.0477	P	4.9
4	☐	125.000	130.196	259292.16	0.1269	P	9.9
5	☐	250.000	247.686	512912.35	0.2413	P	1.2
6	☐	500.000	513.920	1040025.15	0.5008	P	0.8
7	☐	1000.000	993.022	2096063.52	0.9676	A	3.0
8	☐			841.72	0.0004	P	11.3

$$y = 9.7440\text{E-}004 * x + 2.9912\text{E-}006$$

$$R = 0.9998$$

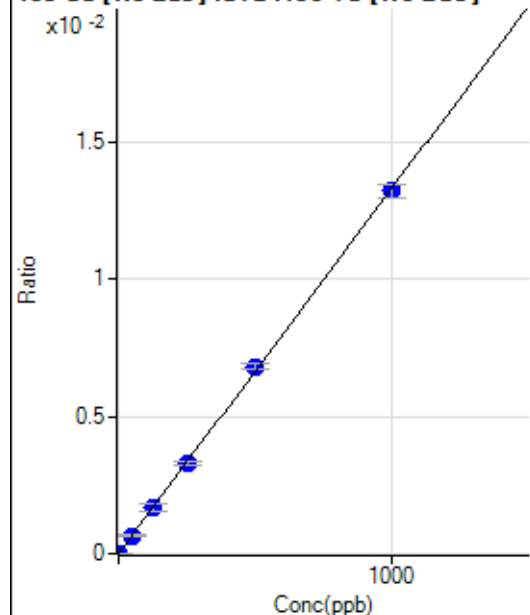
$$DL = 0.01595$$

$$BEC = 0.00307$$

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	4.17	0.0000	P	103.9
2	☐	1.000	1.287	40.28	0.0000	P	50.0
3	☐	50.000	48.526	1382.03	0.0006	P	7.8
4	☐	125.000	126.605	3437.97	0.0017	P	12.9
5	☐	250.000	248.431	7021.33	0.0033	P	5.5
6	☐	500.000	512.075	14129.64	0.0068	P	3.3
7	☐	1000.000	994.228	28621.53	0.0132	P	3.4
8	☐			36.11	0.0000	P	66.3

$$y = 1.3289\text{E-}005 * x + 2.1618\text{E-}006$$

$$R = 0.9999$$

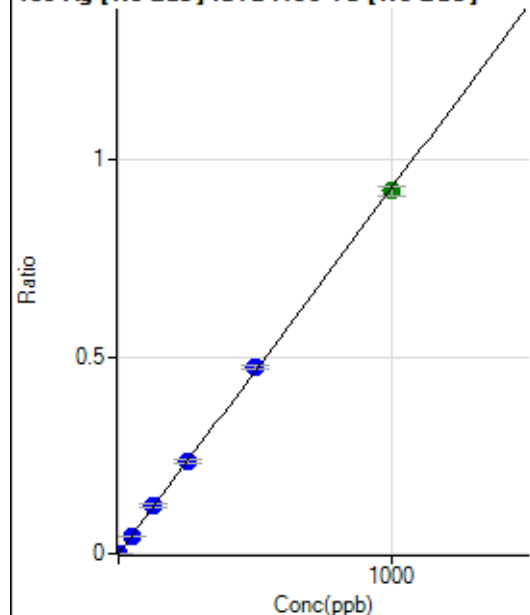
$$DL = 0.5071$$

$$BEC = 0.1627$$

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	5.56	0.0000	P	173.2
2	☐	1.000	0.781	1522.35	0.0007	P	6.1
3	☐	50.000	48.386	95965.28	0.0449	P	5.7
4	☐	125.000	130.355	247414.35	0.1209	P	7.6
5	☐	250.000	251.236	495337.76	0.2331	P	3.4
6	☐	500.000	512.397	986931.41	0.4754	P	2.3
7	☐	1000.000	992.904	1995528.71	0.9211	A	2.7
8	☐			783.38	0.0004	P	2.6

$$y = 9.2770\text{E-}004 * x + 2.6670\text{E-}006$$

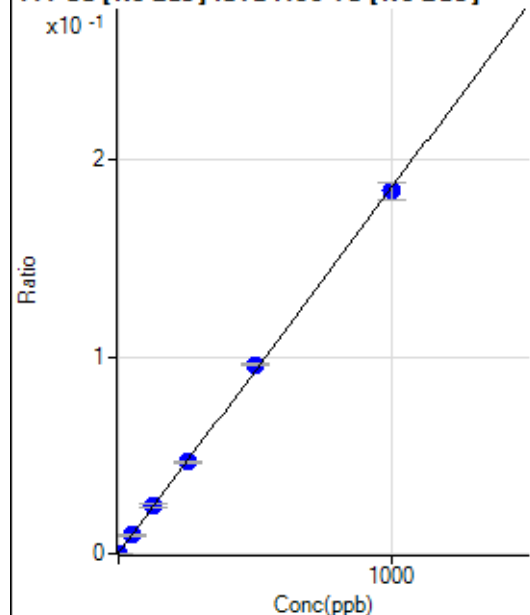
$$R = 0.9999$$

$$DL = 0.01494$$

$$BEC = 0.002875$$

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	372.66	0.0002	P	16.2
2	☐	1.000	1.036	783.79	0.0004	P	16.6
3	☐	50.000	49.369	19979.39	0.0094	P	6.4
4	☐	125.000	130.912	50096.93	0.0245	P	7.8
5	☐	250.000	249.093	98671.72	0.0464	P	1.4
6	☐	500.000	515.603	199173.38	0.0959	P	1.1
7	☐	1000.000	991.718	399018.72	0.1843	P	4.6
8	☐			653.08	0.0003	P	19.1

$$y = 1.8566\text{E-}004 * x + 1.8484\text{E-}004$$

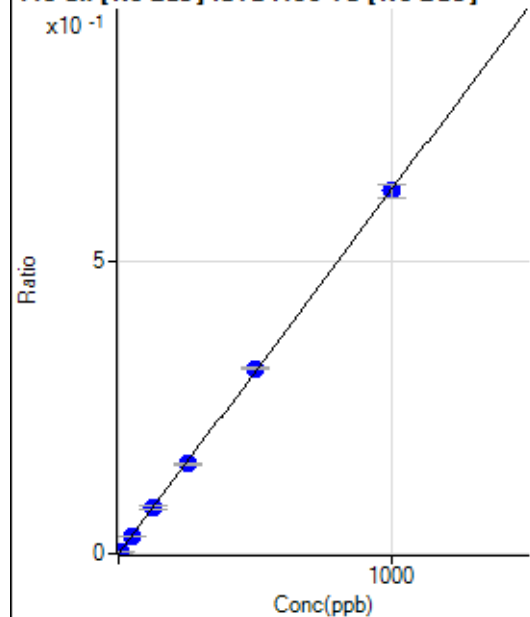
$$R = 0.9998$$

$$DL = 0.485$$

$$BEC = 0.9956$$

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	183.34	0.0001	P	15.2
2	☐	5.000	4.880	6498.91	0.0031	P	9.0
3	☐	50.000	48.089	63994.84	0.0299	P	5.6
4	☐	125.000	127.352	161832.09	0.0791	P	8.8
5	☐	250.000	245.817	324486.16	0.1527	P	1.4
6	☐	500.000	508.211	655338.50	0.3156	P	1.1
7	☐	1000.000	996.742	1340295.51	0.6188	P	3.6
8	☐			788.93	0.0004	P	22.0

$$y = 6.2076\text{E-}004 * x + 9.2091\text{E-}005$$

$$R = 0.9999$$

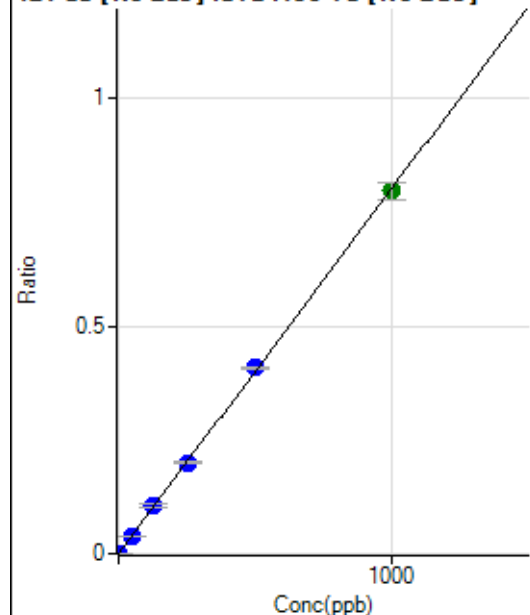
$$DL = 0.06759$$

$$BEC = 0.1484$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	102.1
2	☐	2.000	1.900	3197.68	0.0015	P	8.4
3	☐	50.000	48.563	83133.69	0.0389	P	5.0
4	☐	125.000	130.349	213495.19	0.1044	P	7.8
5	☐	250.000	248.369	422592.86	0.1988	P	2.2
6	☐	500.000	510.349	848424.88	0.4086	P	1.4
7	☐	1000.000	994.637	1724155.47	0.7963	A	4.4
8	☐			1105.64	0.0005	P	15.3

$$y = 8.0055\text{E-}004 * x + 1.4488\text{E-}005$$

$$R = 0.9999$$

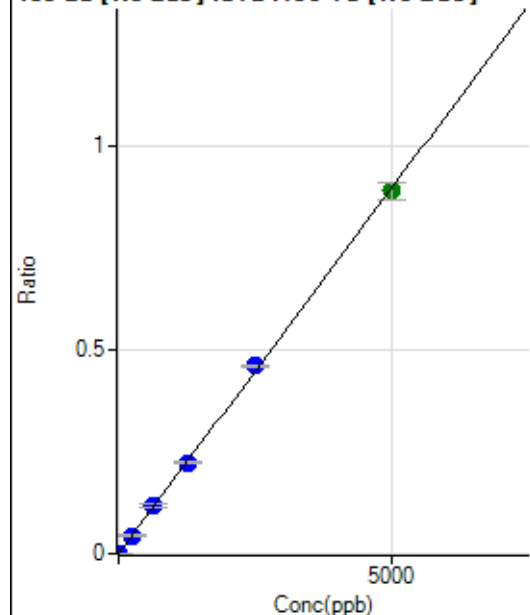
$$DL = 0.05543$$

$$BEC = 0.0181$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	100.3
2	☐	10.000	9.898	3711.73	0.0018	P	3.6
3	☐	250.000	245.971	94227.34	0.0441	P	6.4
4	☐	625.000	648.328	237850.83	0.1162	P	7.7
5	☐	1250.000	1243.664	473901.00	0.2230	P	2.2
6	☐	2500.000	2567.469	956012.23	0.4603	P	0.9
7	☐	5000.000	4965.135	1927372.92	0.8902	A	4.7
8	☐			713.93	0.0003	P	14.0

$$y = 1.7930\text{E-}004 * x + 4.0201\text{E-}006$$

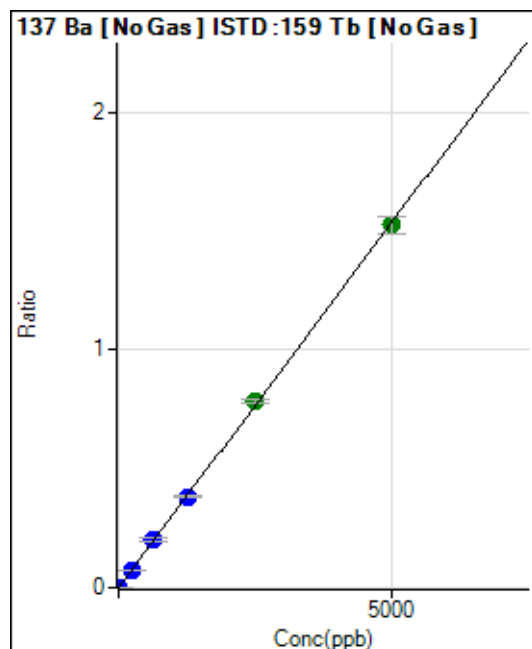
$$R = 0.9999$$

$$DL = 0.06745$$

$$BEC = 0.02242$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	173.2
2	☐	10.000	9.902	6334.98	0.0030	P	9.6
3	☐	250.000	244.627	160487.85	0.0751	P	4.4
4	☐	625.000	650.852	408677.02	0.1997	P	6.9
5	☐	1250.000	1246.262	812589.78	0.3824	P	2.0
6	☐	2500.000	2552.023	1625767.66	0.7830	A	1.9
7	☐	5000.000	4971.960	3302230.67	1.5254	A	5.1
8	☐			1316.77	0.0006	P	3.9

$$y = 3.0681E-004 * x + 5.3732E-006$$

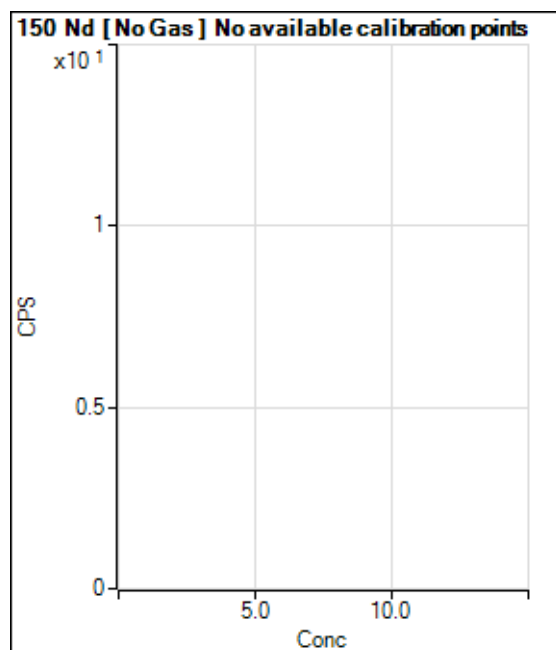
$$R = 0.9999$$

$$DL = 0.091$$

$$BEC = 0.01751$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.0
2	☐			6.67		P	100.0
3	☐			15.55		P	24.8
4	☐			17.78		P	43.3
5	☐			22.22		P	75.5
6	☐			40.00		P	16.7
7	☐			60.00		P	11.1
8	☐			24.44		P	31.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			1.11		P	173.2
4	☐			0.00		P	
5	☐			0.00		P	
6	☐			4.44		P	43.4
7	☐			3.33		P	100.1
8	☐			1.11		P	173.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.00		P	0.0
2	☐			8.33		P	173.2
3	☐			13.89		P	124.9
4	☐			19.45		P	24.7
5	☐			33.33		P	129.9
6	☐			61.12		P	34.3
7	☐			100.01		P	14.4
8	☐			405.57		P	23.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			3.33		P	100.1
3	☐			2.22		P	86.6
4	☐			8.89		P	21.6
5	☐			24.44		P	39.4
6	☐			34.45		P	31.1
7	☐			51.11		P	27.2
8	☐			290.01		P	4.6

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			11.11		P	43.3
3	☐			33.33		P	25.0
4	☐			38.89		P	61.9
5	☐			44.45		P	28.7
6	☐			58.33		P	51.5
7	☐			122.22		P	17.2
8	☐			505.58		P	11.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.6
2	☐			11.11		P	45.8
3	☐			8.89		P	43.3
4	☐			5.55		P	124.9
5	☐			17.78		P	28.6
6	☐			36.67		P	24.0
7	☐			42.22		P	27.7
8	☐			277.78		P	14.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	86.6
2	☐			27.78		P	96.4
3	☐			13.89		P	91.6
4	☐			13.89		P	69.3
5	☐			19.44		P	89.2
6	☐			22.22		P	142.0
7	☐			33.34		P	43.3
8	☐			58.33		P	28.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	91.6
2	☐			5.56		P	34.7
3	☐			5.56		P	34.7
4	☐			5.56		P	91.6
5	☐			10.00		P	66.7
6	☐			7.78		P	65.5
7	☐			15.56		P	81.1
8	☐			27.78		P	38.6

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	100.0
3	☐			16.67		P	50.0
4	☐			8.33		P	173.2
5	☐			13.89		P	124.9
6	☐			11.11		P	86.6
7	☐			11.11		P	114.6
8	☐			22.22		P	21.6

172 Yb [He] No available calibration points

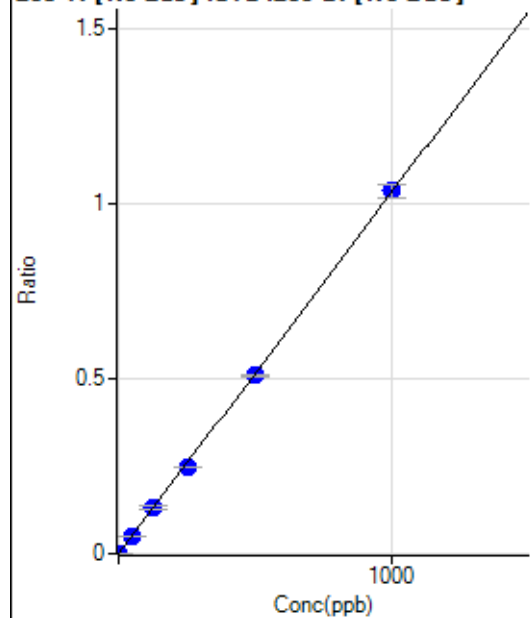
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.85		P	173.2
3	☐			1.85		P	173.2
4	☐			3.71		P	86.6
5	☐			0.00		P	
6	☐			0.00		P	
7	☐			5.56		P	100.0
8	☐			5.56		P	100.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.34		P	35.2
2	☐			244.45		P	27.6
3	☐			188.90		P	12.7
4	☐			155.56		P	6.2
5	☐			180.56		P	19.2
6	☐			211.12		P	27.7
7	☐			191.68		P	24.2
8	☐			169.45		P	27.1

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			122.22		P	9.1
2	☐			138.89		P	20.0
3	☐			85.19		P	26.4
4	☐			92.60		P	12.5
5	☐			87.04		P	9.8
6	☐			87.04		P	9.8
7	☐			90.75		P	14.1
8	☐			100.00		P	25.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	66.67	0.0001	P	50.3
2	☐	1.000	0.891	1052.85	0.0010	P	6.6
3	☐	50.000	48.184	55140.56	0.0498	P	7.6
4	☐	125.000	126.782	138227.84	0.1308	P	8.2
5	☐	250.000	239.587	274922.94	0.2472	P	1.9
6	☐	500.000	494.972	547956.76	0.5106	P	1.2
7	☐	1000.000	1004.986	1140681.98	1.0367	P	4.1
8	☐			427.80	0.0004	P	24.6

$$y = 0.0010 * x + 6.3694E-005$$

$$R = 0.9999$$

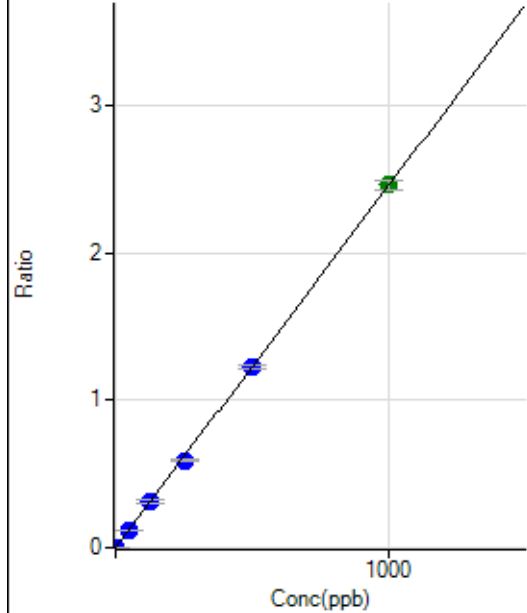
$$DL = 0.09309$$

$$BEC = 0.06175$$

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	172.23	0.0002	P	10.3
2	☐	1.000	1.000	2797.62	0.0026	P	8.4
3	☐	50.000	47.664	129792.99	0.1171	P	6.1
4	☐	125.000	126.911	328904.22	0.3115	P	8.7
5	☐	250.000	240.997	657426.20	0.5913	P	1.8
6	☐	500.000	499.641	1315114.46	1.2257	P	1.2
7	☐	1000.000	1002.308	2706571.48	2.4587	A	2.9
8	☐			1194.54	0.0011	P	0.4

$$y = 0.0025 * x + 1.6815E-004$$

$$R = 0.9999$$

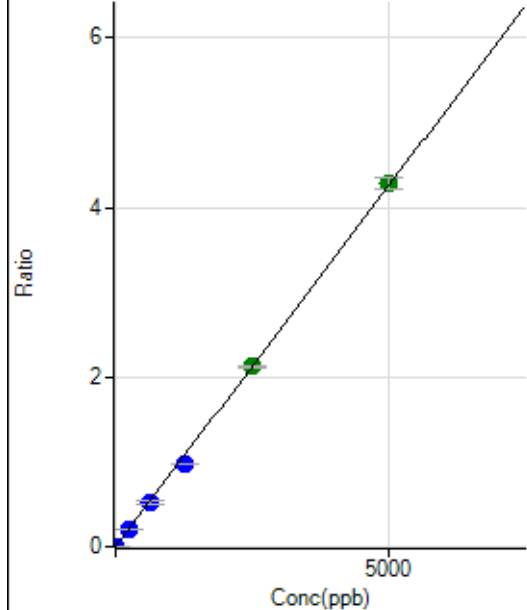
$$DL = 0.02112$$

$$BEC = 0.06855$$

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	157.41	0.0002	P	13.4
2	☐	1.000	0.998	1070.43	0.0010	P	7.2
3	☐	250.000	232.109	219165.02	0.1976	P	4.8
4	☐	625.000	619.988	557006.21	0.5275	P	9.2
5	☐	1250.000	1149.078	1087099.34	0.9776	P	1.4
6	☐	2500.000	2493.263	2276221.90	2.1211	A	1.1
7	☐	5000.000	5030.120	4712073.89	4.2791	A	3.2
8	☐			9184.89	0.0087	P	3.5

$$y = 8.5066E-004 * x + 1.5339E-004$$

$$R = 0.9998$$

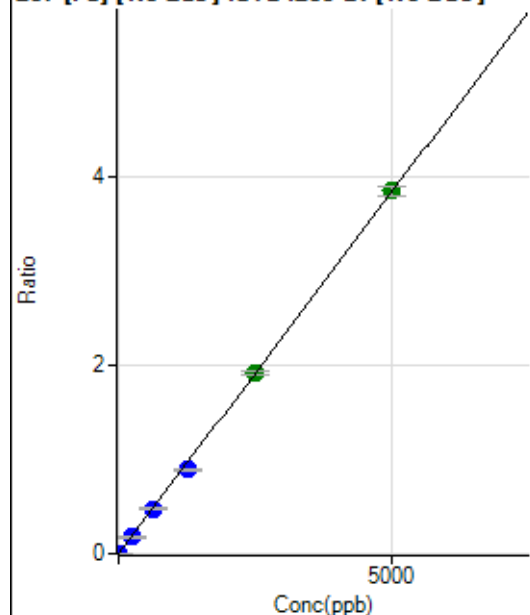
$$DL = 0.07236$$

$$BEC = 0.1803$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	140.75	0.0001	P	26.0
2	☐	1.000	0.970	944.50	0.0009	P	5.3
3	☐	250.000	232.773	198055.67	0.1787	P	6.3
4	☐	625.000	622.252	504869.03	0.4775	P	5.9
5	☐	1250.000	1160.151	989935.50	0.8902	P	1.4
6	☐	2500.000	2504.196	2061938.30	1.9213	A	1.7
7	☐	5000.000	5021.569	4241200.12	3.8526	A	2.8
8	☐			8128.63	0.0077	P	4.6

$$y = 7.6717\text{E-}004 * x + 1.3937\text{E-}004$$

$$R = 0.9998$$

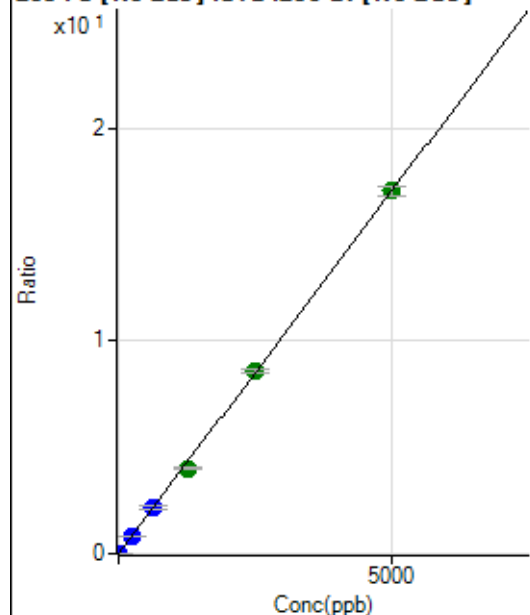
$$DL = 0.1416$$

$$BEC = 0.1817$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	648.17	0.0006	P	8.7
2	☐	1.000	0.968	4200.34	0.0039	P	8.6
3	☐	250.000	234.984	887783.43	0.8010	P	6.3
4	☐	625.000	628.119	2261475.12	2.1401	P	7.3
5	☐	1250.000	1179.029	4466873.43	4.0167	A	1.5
6	☐	2500.000	2522.955	9223804.75	8.5943	A	2.0
7	☐	5000.000	5006.626	18774964.74	17.0542	A	2.4
8	☐			37407.24	0.0354	P	1.7

$$y = 0.0034 * x + 6.3773\text{E-}004$$

$$R = 0.9999$$

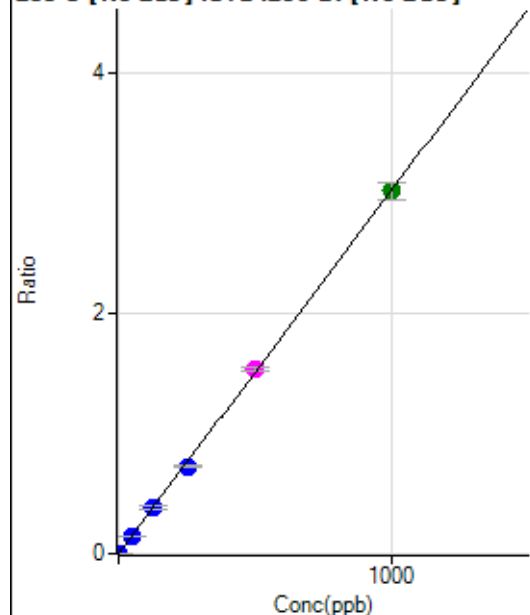
$$DL = 0.04874$$

$$BEC = 0.1872$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	27.78	0.0000	P	14.0
2	☐	1.000	0.977	3189.38	0.0030	P	9.5
3	☐	50.000	47.219	157859.83	0.1426	P	8.3
4	☐	125.000	127.375	406157.59	0.3846	P	8.4
5	☐	250.000	238.616	801159.99	0.7204	P	1.9
6	☐	500.000	508.272	1646366.88	1.5345	M	1.5
7	☐	1000.000	998.552	3316728.31	3.0146	A	5.1
8	☐			425.02	0.0004	P	7.8

$$y = 0.0030 * x + 2.7214E-005$$

$$R = 0.9999$$

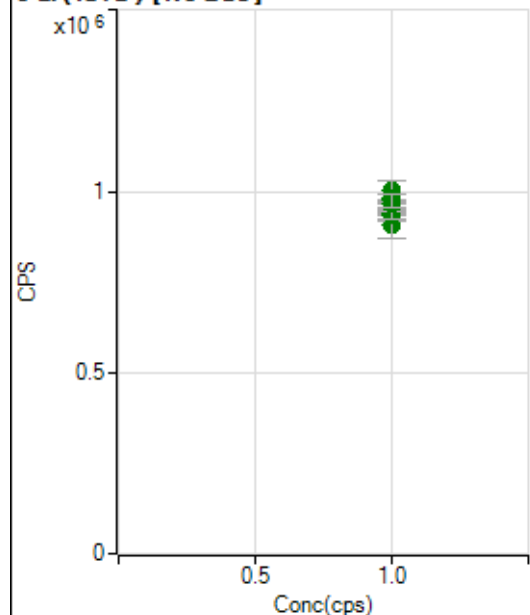
$$DL = 0.003778$$

$$BEC = 0.009014$$

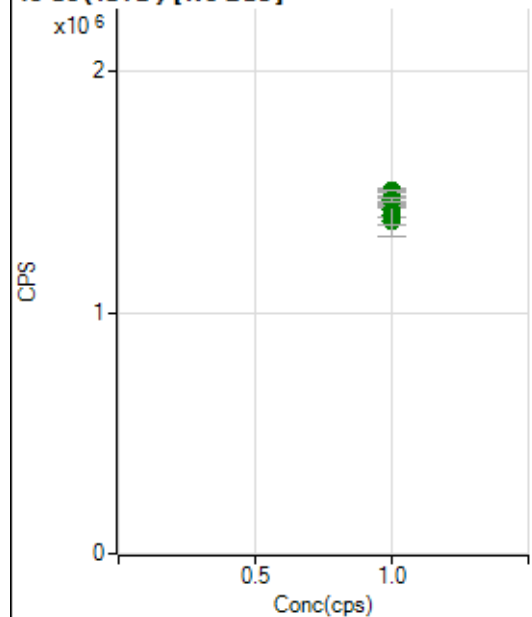
Weight: <None>

Min Conc: 0

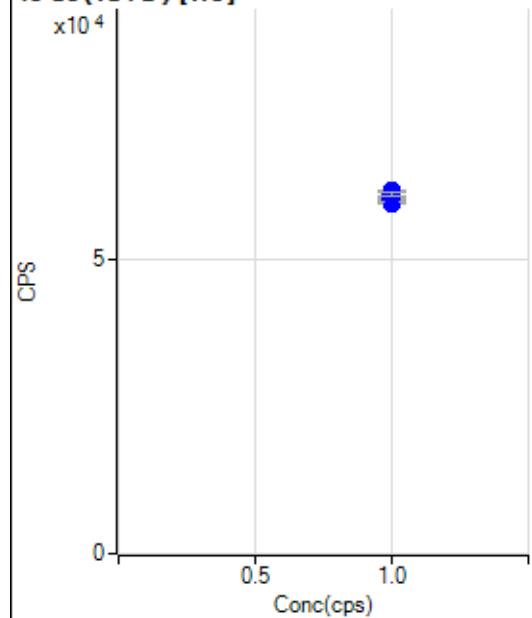
6 Li (ISTD) [No Gas]



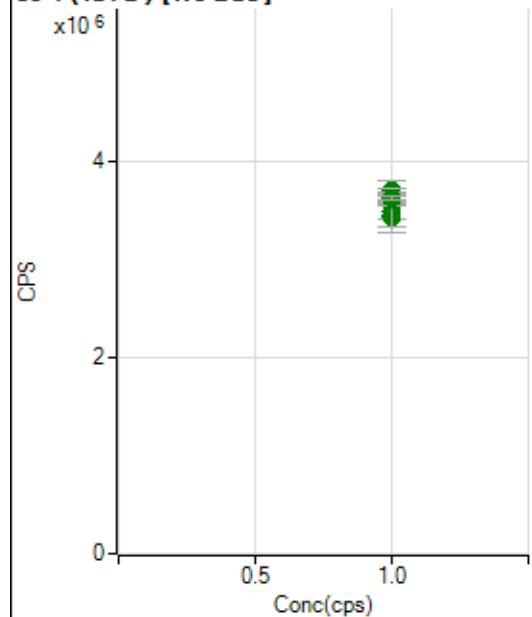
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		906023.37		A	7.6
2	☐	1.000		941278.42		A	1.6
3	☐	1.000		1001368.82		A	5.8
4	☐	1.000		943252.85		A	5.1
5	☐	1.000		983319.38		A	2.0
6	☐	1.000		932683.55		A	2.1
7	☐	1.000		967376.47		A	1.9
8	☐	1.000		976153.19		A	3.9

45 Sc (ISTD) [No Gas]

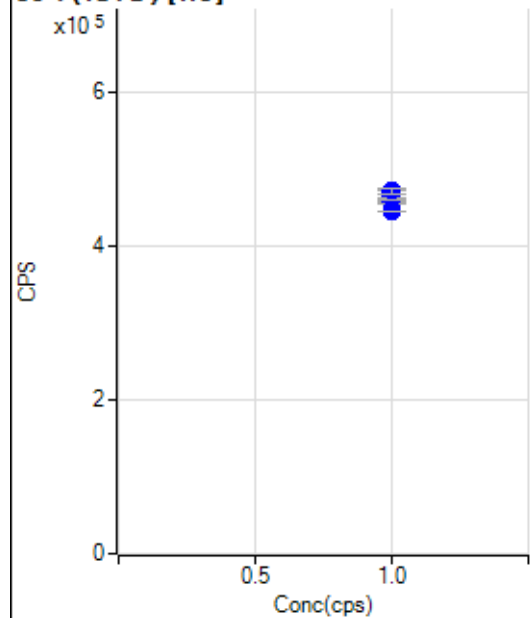
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1377491.86		A	8.4
2	☐	1.000		1426827.83		A	3.9
3	☐	1.000		1479048.71		A	4.9
4	☐	1.000		1404081.97		A	5.8
5	☐	1.000		1504806.12		A	0.8
6	☐	1.000		1469181.61		A	0.8
7	☐	1.000		1467959.72		A	2.4
8	☐	1.000		1469565.22		A	1.3

45 Sc (ISTD) [He]

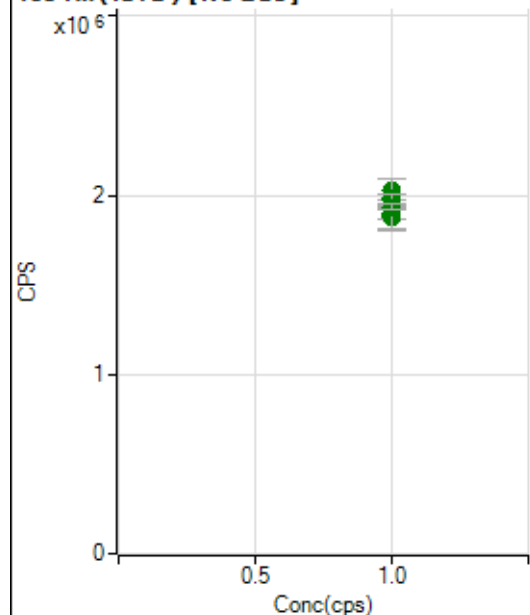
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		59679.97		P	0.6
2	☐	1.000		60517.91		P	1.1
3	☐	1.000		61214.09		P	0.8
4	☐	1.000		60374.96		P	0.9
5	☐	1.000		61842.25		P	0.8
6	☐	1.000		60517.84		P	1.4
7	☐	1.000		60913.80		P	0.2
8	☐	1.000		61233.00		P	1.3

89 Y (ISTD) [No Gas]

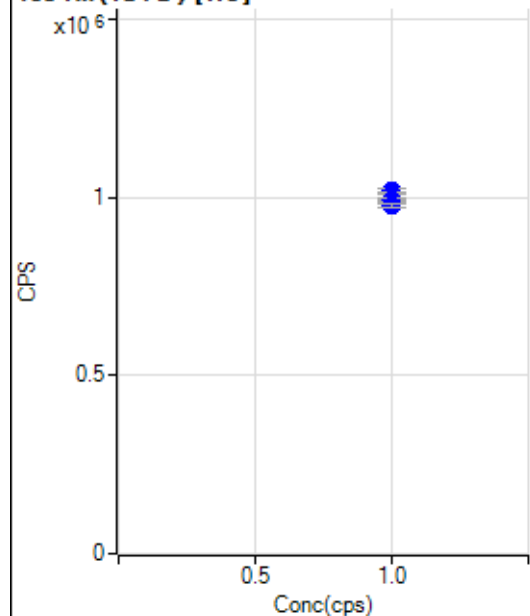
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3422328.07		A	9.0
2	☐	1.000		3491323.21		A	4.5
3	☐	1.000		3686982.41		A	6.0
4	☐	1.000		3440293.60		A	6.0
5	☐	1.000		3693182.96		A	1.4
6	☐	1.000		3594895.57		A	2.4
7	☐	1.000		3628968.31		A	3.1
8	☐	1.000		3625223.90		A	1.0

89 Y (ISTD) [He]

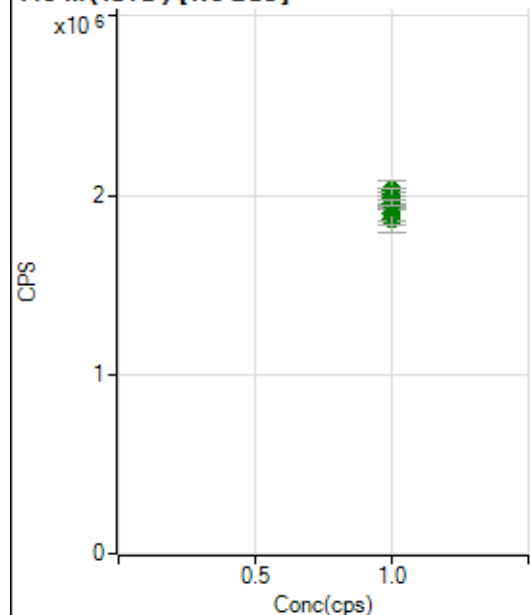
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		445887.11		P	0.4
2	☐	1.000		462587.07		P	0.4
3	☐	1.000		464984.65		P	1.1
4	☐	1.000		459001.90		P	0.5
5	☐	1.000		470885.63		P	0.7
6	☐	1.000		458039.77		P	0.6
7	☐	1.000		462603.70		P	0.5
8	☐	1.000		472219.25		P	1.3

103 Rh (ISTD) [No Gas]

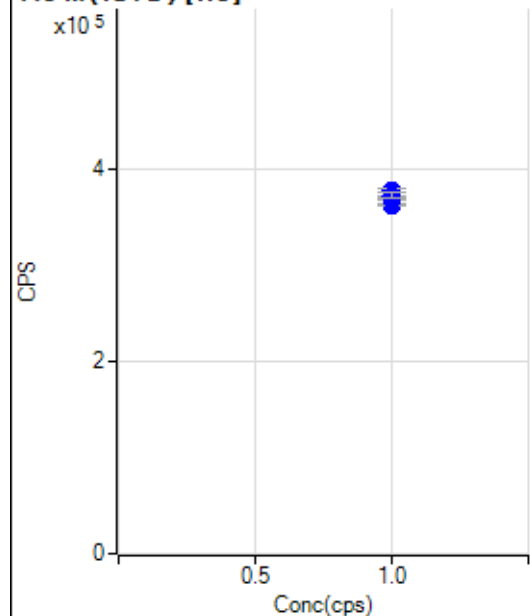
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1879921.29		A	8.3
2	☐	1.000		1898020.05		A	2.9
3	☐	1.000		2024732.68		A	6.5
4	☐	1.000		1885308.35		A	7.1
5	☐	1.000		1988292.86		A	1.5
6	☐	1.000		1931602.00		A	1.2
7	☐	1.000		1970954.17		A	3.5
8	☐	1.000		1936985.96		A	1.4

103 Rh (ISTD) [He]

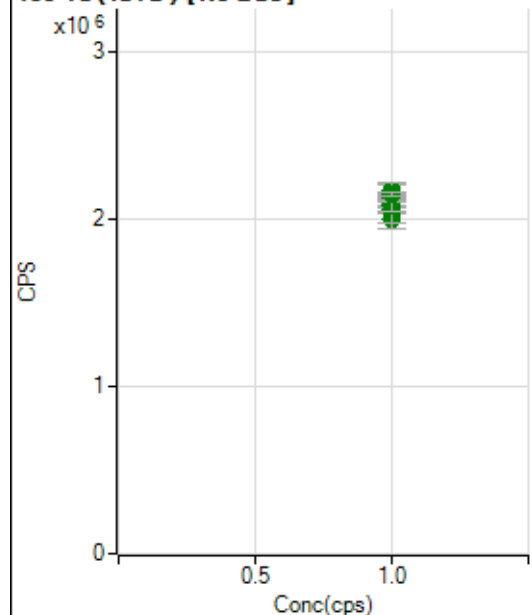
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		985434.48		P	0.4
2	☐	1.000		1014066.02		P	0.4
3	☐	1.000		1018867.02		P	1.0
4	☐	1.000		996410.26		P	0.3
5	☐	1.000		1011873.60		P	0.6
6	☐	1.000		994199.66		P	1.0
7	☐	1.000		994876.53		P	0.8
8	☐	1.000		978963.59		P	1.3

115 In (ISTD) [No Gas]

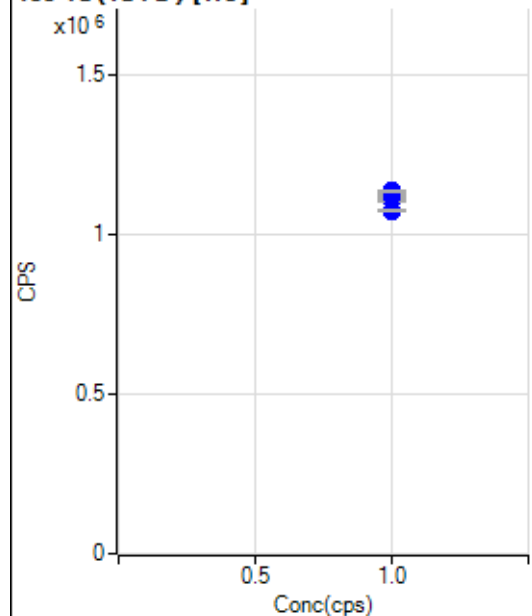
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1867834.30		A	7.9
2	☐	1.000		1902559.66		A	4.5
3	☐	1.000		2024163.18		A	5.3
4	☐	1.000		1894031.25		A	5.9
5	☐	1.000		2006098.83		A	0.6
6	☐	1.000		1933559.95		A	1.1
7	☐	1.000		1983505.92		A	5.3
8	☐	1.000		1957440.63		A	1.2

115 In (ISTD) [He]

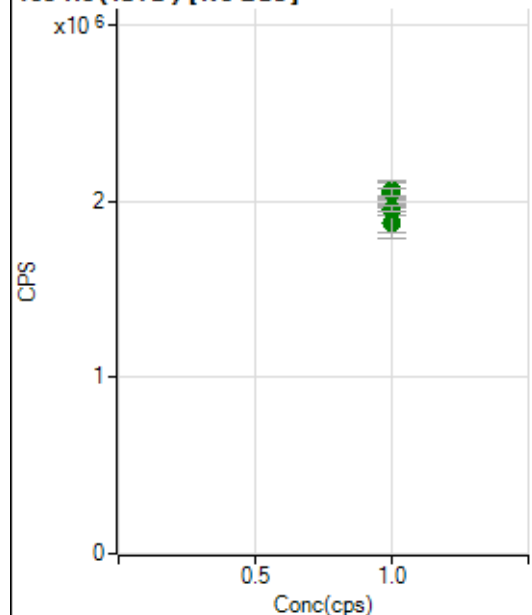
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		362962.29		P	0.3
2	☐	1.000		376400.84		P	0.2
3	☐	1.000		377518.95		P	1.1
4	☐	1.000		371689.84		P	0.2
5	☐	1.000		377761.91		P	1.1
6	☐	1.000		369216.25		P	0.2
7	☐	1.000		368472.20		P	0.4
8	☐	1.000		373351.52		P	1.4

159 Tb (ISTD) [No Gas]

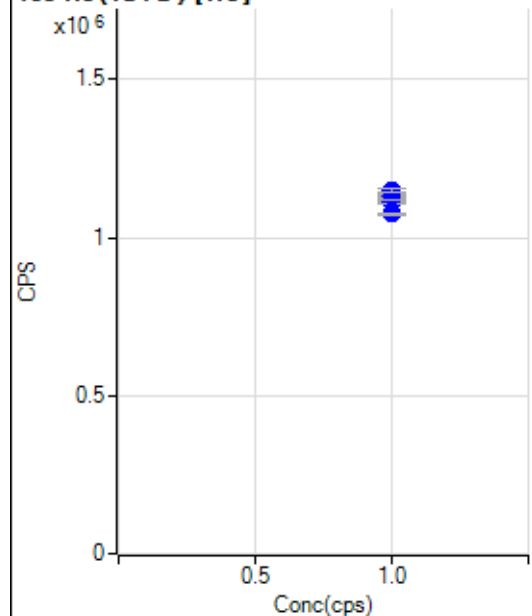
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2002938.65		A	6.3
2	☐	1.000		2088633.23		A	5.4
3	☐	1.000		2141532.97		A	5.7
4	☐	1.000		2053187.54		A	7.1
5	☐	1.000		2125187.19		A	0.6
6	☐	1.000		2077121.50		A	3.1
7	☐	1.000		2168382.55		A	5.1
8	☐	1.000		2146554.94		A	0.9

159 Tb (ISTD) [He]

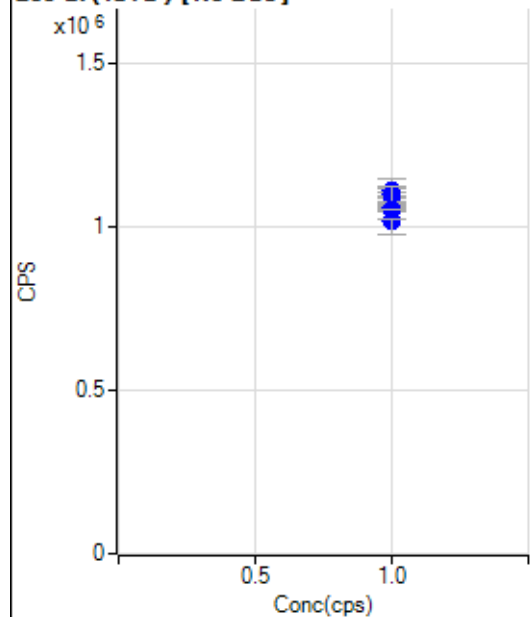
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1075227.66		P	0.8
2	☐	1.000		1115587.70		P	0.9
3	☐	1.000		1117254.45		P	0.9
4	☐	1.000		1106507.22		P	0.3
5	☐	1.000		1136946.21		P	0.4
6	☐	1.000		1122655.79		P	0.8
7	☐	1.000		1131110.89		P	0.2
8	☐	1.000		1135036.84		P	0.4

165 Ho (ISTD) [No Gas]

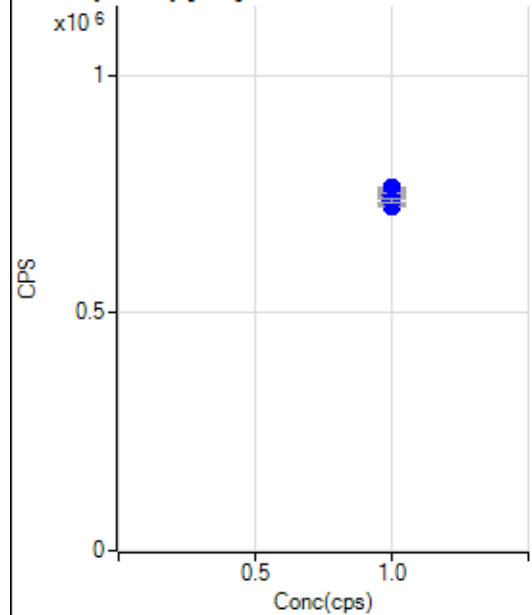
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1877509.78		A	9.1
2	☐	1.000		1953200.32		A	3.2
3	☐	1.000		2042774.37		A	6.5
4	☐	1.000		1877795.46		A	5.4
5	☐	1.000		2049760.44		A	2.4
6	☐	1.000		1960283.31		A	1.4
7	☐	1.000		2061697.49		A	5.2
8	☐	1.000		2052406.86		A	2.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1076306.16		P	0.5
2	☐	1.000		1117282.81		P	0.3
3	☐	1.000		1119898.52		P	0.7
4	☐	1.000		1112934.33		P	0.7
5	☐	1.000		1139960.50		P	0.9
6	☐	1.000		1129380.52		P	0.3
7	☐	1.000		1131580.14		P	1.7
8	☐	1.000		1147720.98		P	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1019838.42		P	7.9
2	☐	1.000		1069415.84		P	3.9
3	☐	1.000		1111611.75		P	7.3
4	☐	1.000		1059986.25		P	6.5
5	☐	1.000		1111973.09		P	1.0
6	☐	1.000		1073057.18		P	1.3
7	☐	1.000		1101703.57		P	4.9
8	☐	1.000		1055484.76		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		724650.91		P	0.5
2	☐	1.000		754989.02		P	0.4
3	☐	1.000		749965.61		P	0.5
4	☐	1.000		749365.17		P	1.9
5	☐	1.000		762882.30		P	0.9
6	☐	1.000		754744.37		P	0.6
7	☐	1.000		751764.22		P	0.3
8	☐	1.000		736582.39		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8042721MS.b
Acq. Date-Time 2021-04-27 11:49:46
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		4761	47612.48			1.296	5.000
24		40003	400032.17			1.232	5.000
25		5595	55949.71			1.231	5.000
26		6229	62293.92			0.923	5.000
59		28563	285626.63			1.470	5.000
113		3505	35045.36			0.692	5.000
115		23456	234561.57			1.260	5.000
206		5195	51947.07			0.870	5.000
207		4451	44505.52			0.974	5.000
208		10942	109420.40			1.218	5.000
220		1	12.50			22.627	

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

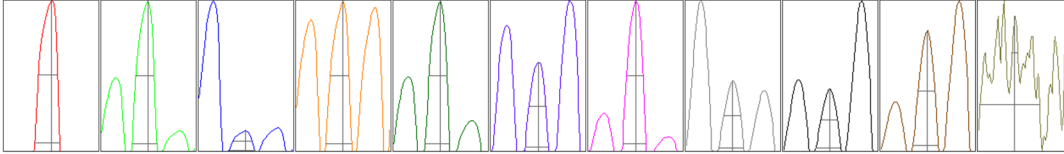
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4707	4739	4721	4861	4778
24	39684	39926	39631	40851	39924
25	5547	5560	5537	5699	5632
26	6190	6213	6169	6311	6264
59	28081	28475	28413	29226	28618
113	3485	3487	3504	3545	3501
115	23558	23709	23330	23683	23001
206	5142	5199	5157	5248	5227
207	4394	4462	4429	4511	4457
208	10865	10903	10839	11172	10931

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	2	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	8268.58	9.05	8.90 - 9.10	
24	72904.55	24.00	23.90 - 24.10	
25	9746.72	25.00	24.90 - 25.10	
26	11126.27	26.00	25.90 - 26.10	
59	52993.30	59.00	58.90 - 59.10	
113	6918.95	113.05	112.90 - 113.10	
115	47018.59	115.05	114.90 - 115.10	
206	10136.87	206.00	205.90 - 206.10	
207	8806.55	207.00	206.90 - 207.10	
208	21349.21	208.00	207.90 - 208.10	
220	1.70	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.783	0.900	
24	0.58	0.779	0.900	
25	0.61	0.790	0.900	
26	0.61	0.823	0.900	
59	0.57	0.776	0.900	
113	0.52	0.729	0.900	
115	0.51	0.731	0.900	
206	0.53	0.777	0.900	
207	0.53	0.783	0.900	
208	0.53	0.806	0.900	
220	0.19	1.885		

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 0.47 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	10.8 V	Deflect	15.8 V
Extract 2	-225.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-110 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	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-1.1 mm
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EM

Discriminator	3.8 mV	Analog HV	2197 V	Pulse HV	1407 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		6820	68196.40			2.978	
89		11707	117071.67			3.151	
205		7510	75102.58			3.433	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7014	6908	6925	6497	6755
89	12084	11867	11818	11105	11661
205	7638	7520	7597	7069	7727

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 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	10.8 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-110 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	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-1.1 mm		
EM					
Discriminator	3.8 mV	Analog HV	2197 V	Pulse HV	1407 V