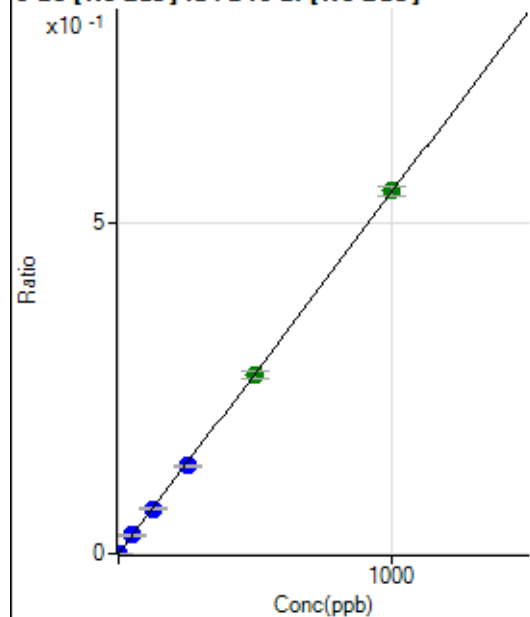


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7083023 MS.b\
 Analysis File: P7083023 MS.batch.bin
 DA Date-Time: 2023-08-31 02:37:27
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-08-30 11:56:51
2	005CALS.d	S02	2023-08-30 12:00:06
3	006CALS.d	S03	2023-08-30 12:03:23
4	007CALS.d	S04	2023-08-30 12:06:21
5	008CALS.d	S05	2023-08-30 12:09:12
6	009CALS.d	S06	2023-08-30 12:11:58
7	010CALS.d	S07	2023-08-30 12:14:46
8	011CALS.d	S08	2023-08-30 12:17:32

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	168.89	0.0000	P	15.1
2	☐	1.000	1.070	2673.59	0.0006	P	9.9
3	☐	50.000	50.884	124781.49	0.0279	P	1.7
4	☐	125.000	124.547	304894.42	0.0682	P	1.4
5	☐	250.000	243.192	600747.87	0.1331	P	2.8
6	☐	500.000	494.513	1229699.47	0.2706	A	4.9
7	☐	1000.000	1004.458	2429473.49	0.5497	A	2.7
8	☐			878.93	0.0002	P	15.1

$$y = 5.4719\text{E-}004 * x + 3.7195\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.03074$$

$$BEC = 0.06797$$

Weight: <None>

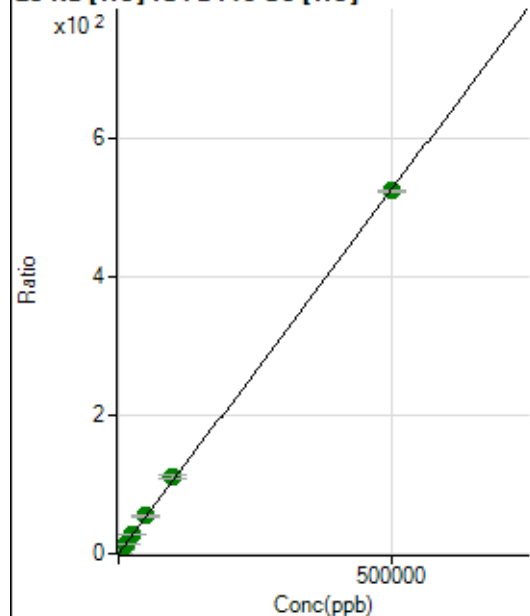
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	50134.62	0.0586	P	0.4
2	☐	500.000	472.372	479547.25	0.5561	P	0.3
3	☐	5000.000	5177.287	4678175.94	5.5112	A	1.1
4	☐	12500.000	12690.755	11401966.50	13.4243	A	0.6
5	☐	25000.000	25419.379	22498071.89	26.8300	A	0.6
6	☐	50000.000	51622.099	45929823.76	54.4264	A	0.7
7	☐	100000.00	106721.16	91640328.64	112.4561	A	5.4
8	☐	500000.00	498466.07	421724318.16	525.0375	A	0.3

$$y = 0.0011 * x + 0.0586$$

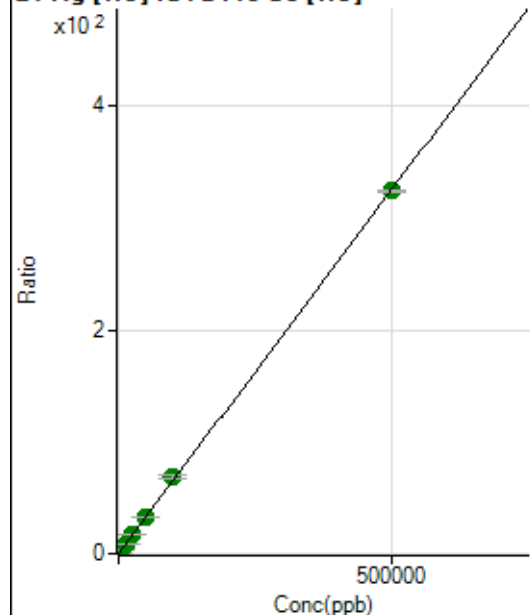
$$R = 0.9999$$

$$DL = 0.6257$$

$$BEC = 55.62$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1046.71	0.0012	P	3.0
2	☐	500.000	474.281	267052.91	0.3097	P	0.4
3	☐	5000.000	5237.366	2892277.98	3.4073	A	1.1
4	☐	12500.000	12743.734	7040332.26	8.2891	A	0.3
5	☐	25000.000	25431.813	13870126.88	16.5408	A	0.8
6	☐	50000.000	51007.225	27994675.97	33.1738	A	1.0
7	☐	100000.00	105630.59	55967399.16	68.6981	A	6.2
8	☐	500000.00	498743.12	260534969.45	324.3590	A	0.4

$$y = 6.5035\text{E-}004 * x + 0.0012$$

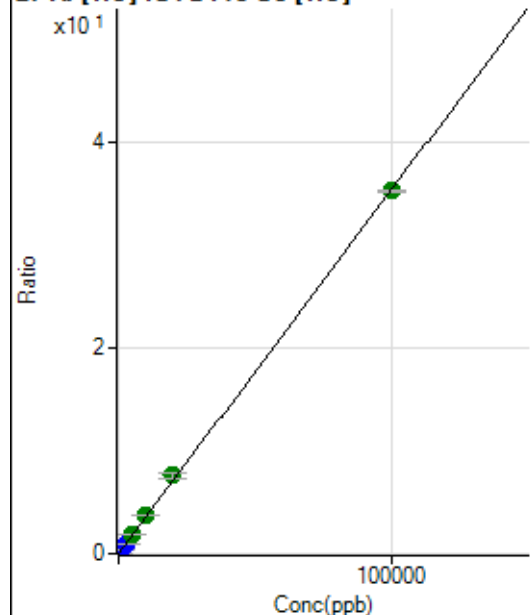
$$R = 0.9999$$

$$DL = 0.169$$

$$BEC = 1.88$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	401.12	0.0005	P	10.4
2	☐	20.000	20.702	6713.75	0.0078	P	1.7
3	☐	1000.000	1045.196	313939.98	0.3699	P	0.2
4	☐	2500.000	2571.030	772147.07	0.9091	P	0.6
5	☐	5000.000	5175.028	1534077.86	1.8294	A	1.2
6	☐	10000.000	10477.067	3125163.05	3.7033	A	0.4
7	☐	20000.000	21418.384	6167787.41	7.5702	A	6.0
8	☐	100000.00	99657.637	28290940.97	35.2216	A	0.2

$$y = 3.5342\text{E-}004 * x + 4.6849\text{E-}004$$

$$R = 0.9999$$

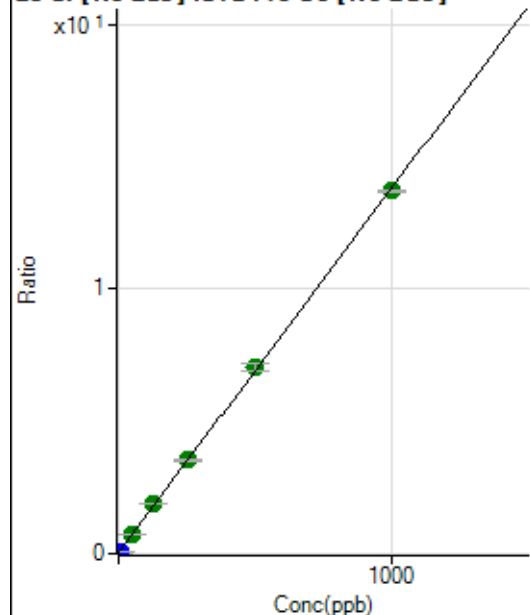
$$DL = 0.4132$$

$$BEC = 1.326$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	358225.09	0.0345	P	0.8
2	☐	10.000	0.621	430721.34	0.0431	P	15.1
3	☐	50.000	52.163	7819004.61	0.7527	A	0.8
4	☐	125.000	133.779	19177201.66	1.8762	A	1.6
5	☐	250.000	255.101	37058604.72	3.5464	A	1.6
6	☐	500.000	508.932	74578320.00	7.0408	A	4.4
7	☐	1000.000	993.147	145411568.94	13.7068	A	0.7
8	☐			860181.26	0.0861	P	6.7

$$y = 0.0138 * x + 0.0345$$

$$R = 0.9998$$

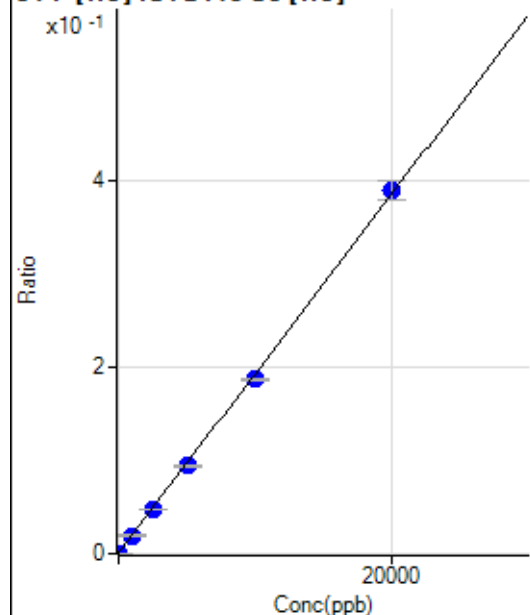
$$DL = 0.05921$$

$$BEC = 2.509$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-8.491	488.90	0.0006	P	12.9
2	☐	0.000	8.491	774.47	0.0009	P	2.8
3	☐	1000.000	974.029	16533.48	0.0195	P	1.3
4	☐	2500.000	2414.453	40087.99	0.0472	P	0.9
5	☐	5000.000	4842.198	78759.00	0.0939	P	1.1
6	☐	10000.000	9713.541	158374.33	0.1877	P	1.0
7	☐	20000.000	20194.672	317295.81	0.3894	P	5.5
8	☐			623.35	0.0008	P	5.8

$$y = 1.9245E-005 * x + 7.3467E-004$$

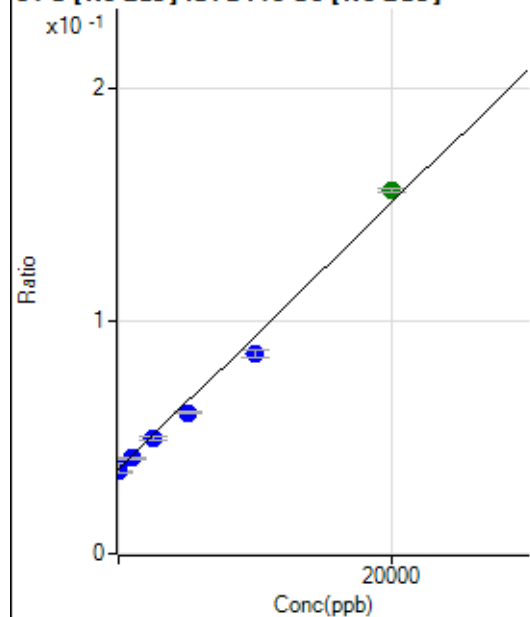
$$R = 0.9998$$

$$DL = 7.734$$

$$BEC = 38.18$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-121.751	370077.79	0.0357	P	1.3
2	☐	0.000	121.751	371685.86	0.0371	P	11.5
3	☐	1000.000	811.774	426150.15	0.0410	P	2.9
4	☐	2500.000	2321.861	507674.49	0.0497	P	2.7
5	☐	5000.000	4241.766	633996.88	0.0607	P	0.3
6	☐	10000.000	8715.490	914134.08	0.0863	P	3.9
7	☐	20000.000	20863.492	1653484.82	0.1559	A	1.0
8	☐			320962.75	0.0321	P	2.9

$$y = 5.7267\text{E-}006 * x + 0.0364$$

$$R = 0.9963$$

$$DL = 1240$$

$$BEC = 6353$$

Weight: <None>

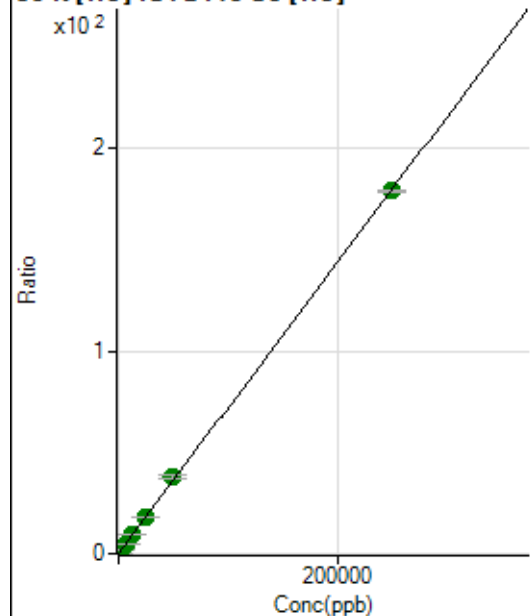
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	89381.26	0.1044	P	1.1
2	☐	500.000	483.445	389402.70	0.4515	P	0.3
3	☐	2500.000	2538.348	1635538.48	1.9269	A	0.9
4	☐	6250.000	6227.761	3886492.55	4.5759	A	0.2
5	☐	12500.000	12480.362	7601564.19	9.0652	A	0.7
6	☐	25000.000	25305.919	15421078.24	18.2737	A	0.3
7	☐	50000.000	52314.935	30692906.76	37.6659	A	5.5
8	☐	250000.00	249507.60	143976176.74	179.2475	A	0.4

$$y = 7.1799\text{E-}004 * x + 0.1044$$

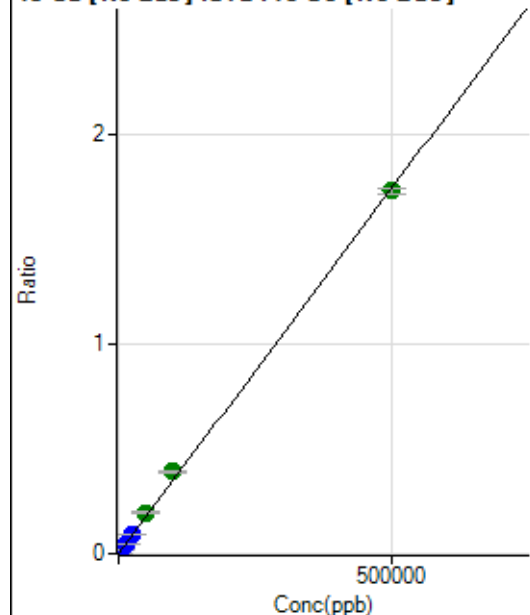
$$R = 1.0000$$

$$DL = 4.975$$

$$BEC = 145.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1428.98	0.0001	P	5.0
2	☐	500.000	496.990	18690.47	0.0019	P	14.1
3	☐	5000.000	5683.213	206993.99	0.0199	P	0.6
4	☐	12500.000	14236.824	508025.72	0.0497	P	1.9
5	☐	25000.000	27369.890	997209.43	0.0954	P	1.3
6	☐	50000.000	55847.283	2060475.35	0.1946	A	5.6
7	☐	100000.00	112345.98	4150963.31	0.3913	A	1.7
8	☐	500000.00	496777.33	17295597.93	1.7297	A	1.6

$$y = 3.4816\text{E-}006 * x + 1.3780\text{E-}004$$

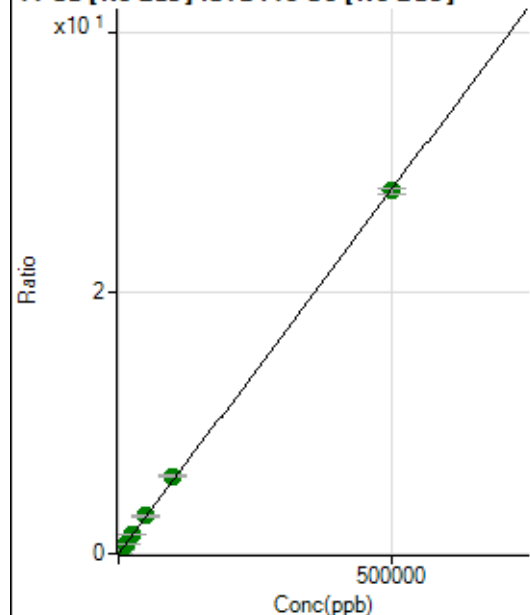
$$R = 0.9996$$

$$DL = 5.91$$

$$BEC = 39.58$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46161.26	0.0045	P	1.4
2	☐	500.000	499.288	323118.26	0.0323	P	14.3
3	☐	5000.000	5513.952	3241366.13	0.3120	A	1.7
4	☐	12500.000	13673.513	7841272.31	0.7672	A	2.1
5	☐	25000.000	26376.531	15422227.55	1.4758	A	1.5
6	☐	50000.000	52610.225	31129904.81	2.9393	A	4.9
7	☐	100000.00	106452.93	63045251.28	5.9428	A	1.5
8	☐	500000.00	498345.08	278013069.19	27.8042	A	1.8

$$y = 5.5784\text{E-}005 * x + 0.0045$$

$$R = 0.9999$$

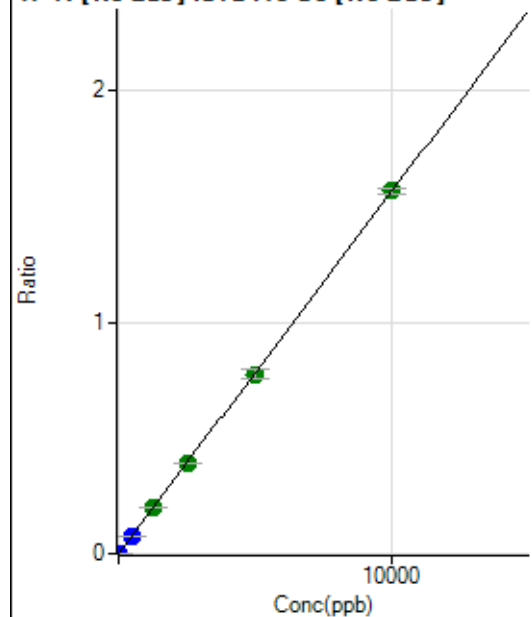
$$DL = 3.357$$

$$BEC = 79.79$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	178.89	0.0000	P	9.0
2	☐	5.000	5.075	8121.14	0.0008	P	12.4
3	☐	500.000	488.372	793414.31	0.0764	P	1.1
4	☐	1250.000	1280.425	2046624.26	0.2002	A	1.3
5	☐	2500.000	2492.837	4073134.70	0.3898	A	1.6
6	☐	5000.000	4947.513	8191965.71	0.7736	A	5.5
7	☐	10000.000	10024.812	16628216.14	1.5674	A	1.6
8	☐			3741.63	0.0004	P	24.5

$$y = 1.5635E-004 * x + 1.7245E-005$$

$$R = 1.0000$$

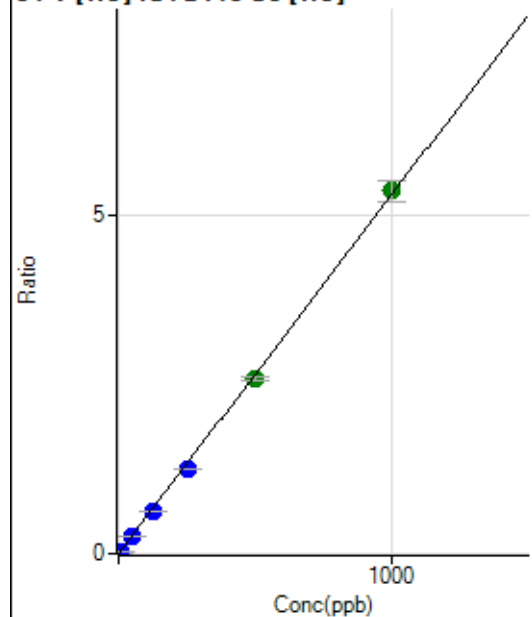
$$DL = 0.02969$$

$$BEC = 0.1103$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	88.89	0.0001	P	17.0
2	☐	5.000	4.471	20574.15	0.0239	P	0.8
3	☐	50.000	47.208	212966.63	0.2509	P	1.4
4	☐	125.000	116.384	525262.54	0.6184	P	0.4
5	☐	250.000	234.810	1046197.76	1.2476	P	0.2
6	☐	500.000	487.730	2186869.57	2.5914	A	1.3
7	☐	1000.000	1011.152	4377153.06	5.3723	A	5.9
8	☐			1674.55	0.0021	P	1.9

$$y = 0.0053 * x + 1.0388E-004$$

$$R = 0.9998$$

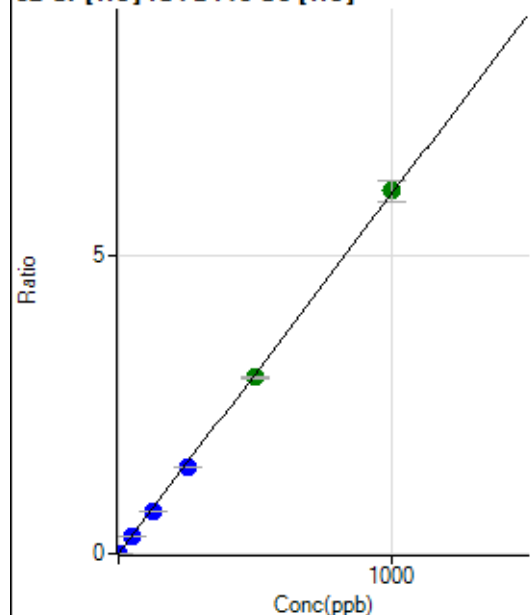
$$DL = 0.009952$$

$$BEC = 0.01955$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2503.57	0.0029	P	5.2
2	☐	2.000	1.928	12529.72	0.0145	P	1.3
3	☐	50.000	48.175	248621.00	0.2929	P	1.5
4	☐	125.000	119.215	611997.48	0.7206	P	0.2
5	☐	250.000	239.067	1209212.59	1.4420	P	0.5
6	☐	500.000	489.469	2488933.52	2.9494	A	0.4
7	☐	1000.000	1008.813	4950400.24	6.0756	A	5.8
8	☐			20585.28	0.0256	P	1.2

$$y = 0.0060 * x + 0.0029$$

$$R = 0.9998$$

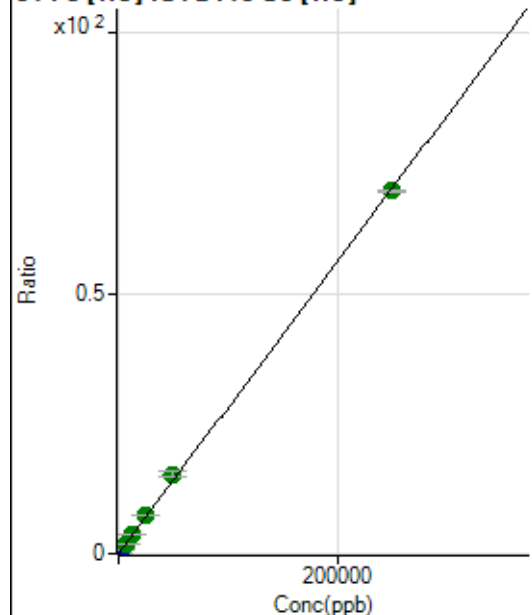
$$DL = 0.07548$$

$$BEC = 0.486$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2748.05	0.0032	P	2.2
2	☐	50.000	52.906	15544.82	0.0180	P	1.8
3	☐	2500.000	2757.818	658210.86	0.7755	P	0.5
4	☐	6250.000	6659.933	1586689.73	1.8681	A	0.6
5	☐	12500.000	13354.864	3138548.32	3.7428	A	0.4
6	☐	25000.000	26446.482	6252126.99	7.4087	A	0.5
7	☐	50000.000	54607.401	12462408.15	15.2943	A	5.6
8	☐	250000.00	248878.30	55980071.95	69.6939	A	0.4

$$y = 2.8002E-004 * x + 0.0032$$

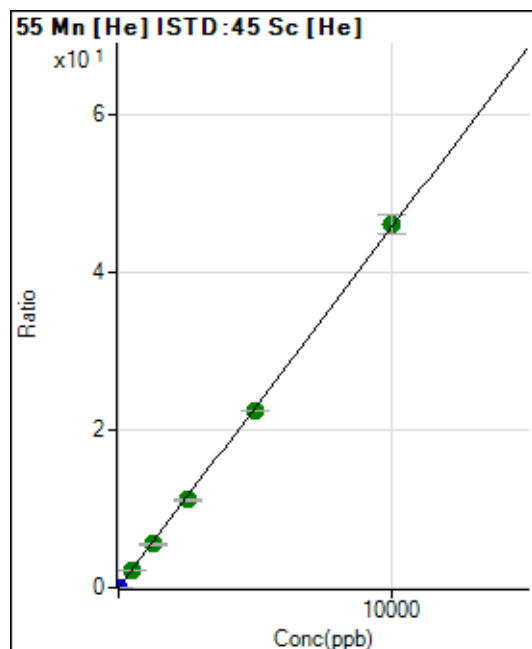
$$R = 0.9998$$

$$DL = 0.7436$$

$$BEC = 11.47$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	790.03	0.0009	P	13.0
2	☐	1.000	0.986	4678.56	0.0054	P	4.1
3	☐	500.000	495.183	1919775.18	2.2619	A	1.4
4	☐	1250.000	1207.655	4683892.12	5.5149	A	1.1
5	☐	2500.000	2430.869	9307810.97	11.0999	A	1.1
6	☐	5000.000	4899.511	18879060.97	22.3714	A	0.4
7	☐	10000.000	10073.061	37479236.11	45.9932	A	5.5
8	☐			20061.24	0.0250	P	1.5

$$y = 0.0046 * x + 9.2262E-004$$

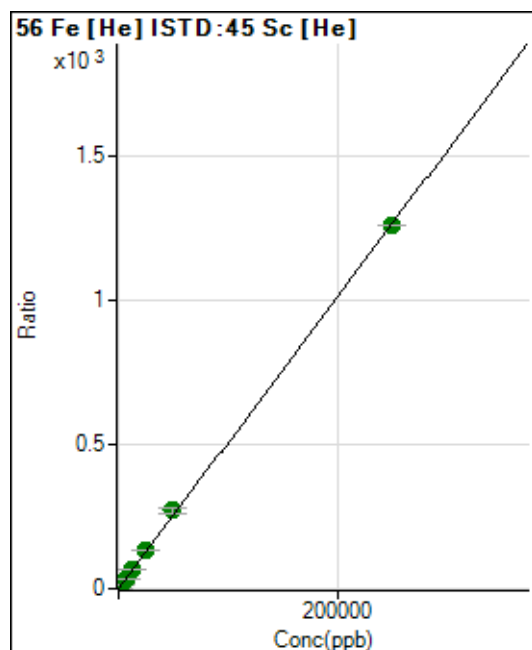
$$R = 0.9999$$

$$DL = 0.0785$$

$$BEC = 0.2021$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20366.10	0.0238	P	0.9
2	☐	50.000	51.961	246792.01	0.2862	P	0.7
3	☐	2500.000	2655.820	11402612.75	13.4344	A	1.4
4	☐	6250.000	6489.592	27851837.64	32.7932	A	0.9
5	☐	12500.000	12957.423	54884916.96	65.4527	A	1.0
6	☐	25000.000	26176.642	111565139.45	132.2036	A	0.2
7	☐	50000.000	53683.212	220885570.04	271.0989	A	5.9
8	☐	250000.00	249115.27	1010412287.1	1,257.939	A	0.1

$$y = 0.0050 * x + 0.0238$$

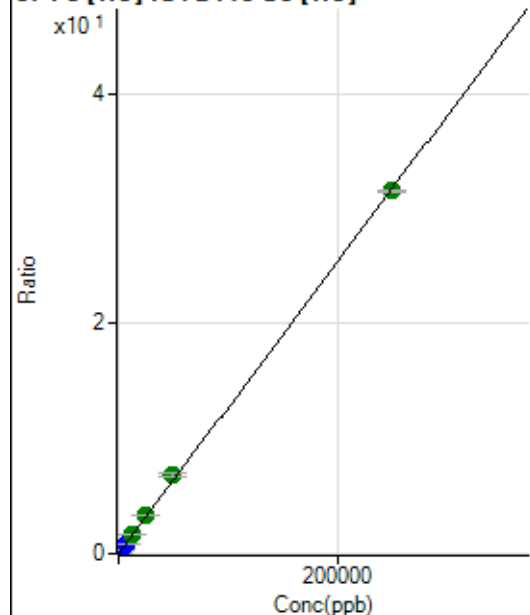
$$R = 0.9999$$

$$DL = 0.1244$$

$$BEC = 4.713$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1204.51	0.0014	P	3.4
2	☐	50.000	52.224	6917.22	0.0080	P	0.6
3	☐	2500.000	2699.634	291383.08	0.3433	P	0.9
4	☐	6250.000	6649.198	716391.65	0.8435	P	0.7
5	☐	12500.000	13197.221	1402681.84	1.6728	A	0.2
6	☐	25000.000	26319.306	2814039.37	3.3346	A	0.7
7	☐	50000.000	53789.949	5552006.79	6.8136	A	5.6
8	☐	250000.00	249063.24	25336889.62	31.5437	A	0.7

$$y = 1.2664\text{E-}004 * x + 0.0014$$

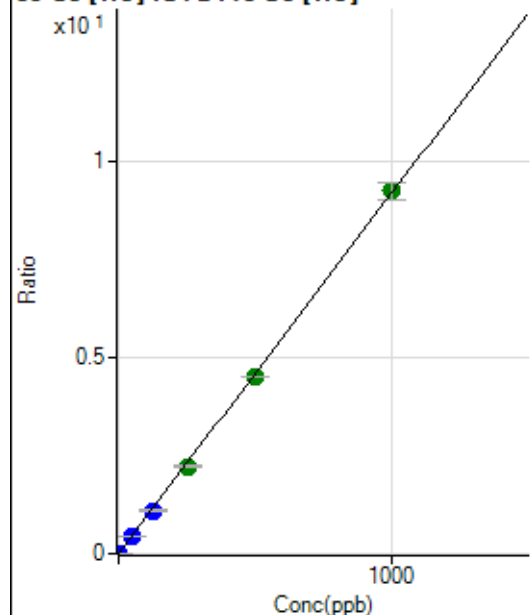
R = 0.9999

DL = 1.147

BEC = 11.11

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	400.01	0.0005	P	2.5
2	☐	1.000	0.940	7838.78	0.0091	P	1.3
3	☐	50.000	49.040	382383.72	0.4505	P	0.3
4	☐	125.000	119.856	934549.48	1.1004	P	1.0
5	☐	250.000	241.868	1861556.90	2.2200	A	1.9
6	☐	500.000	491.832	3809207.41	4.5139	A	0.5
7	☐	1000.000	1006.808	7530923.71	9.2397	A	4.8
8	☐			13948.81	0.0174	P	1.0

$$y = 0.0092 * x + 4.6736\text{E-}004$$

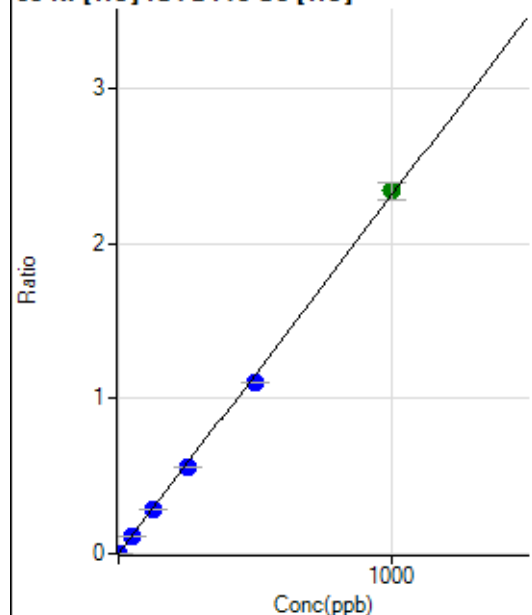
R = 0.9999

DL = 0.003866

BEC = 0.05093

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	276.67	0.0003	P	26.0
2	☐	1.000	1.022	2316.86	0.0027	P	2.5
3	☐	50.000	50.212	98793.50	0.1164	P	1.0
4	☐	125.000	122.027	239857.67	0.2824	P	0.2
5	☐	250.000	241.557	468508.42	0.5587	P	0.6
6	☐	500.000	479.682	936023.22	1.1092	P	0.2
7	☐	1000.000	1012.631	1908310.73	2.3412	A	4.6
8	☐			6177.99	0.0077	P	4.1

$$y = 0.0023 * x + 3.2328E-004$$

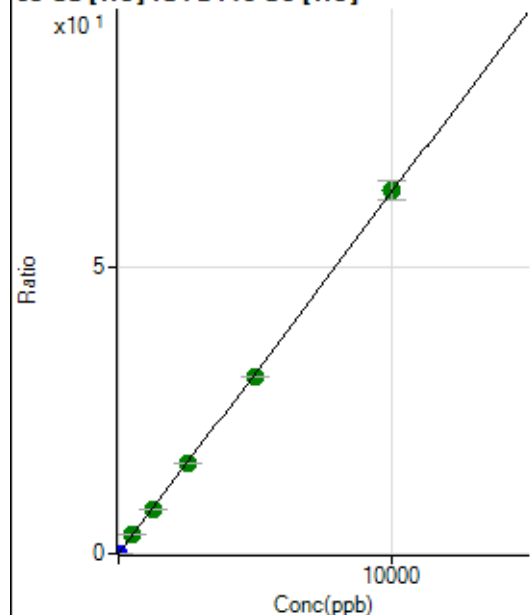
$$R = 0.9997$$

$$DL = 0.1091$$

$$BEC = 0.1398$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2242.41	0.0026	P	1.3
2	☐	2.000	1.918	12661.01	0.0147	P	2.2
3	☐	500.000	516.582	2759496.94	3.2511	A	0.3
4	☐	1250.000	1235.654	6601715.32	7.7729	A	0.7
5	☐	2500.000	2491.902	13142313.00	15.6726	A	0.4
6	☐	5000.000	4912.005	26068789.33	30.8911	A	0.6
7	☐	10000.000	10046.986	51487743.12	63.1817	A	5.4
8	☐			13437.24	0.0167	P	1.0

$$y = 0.0063 * x + 0.0026$$

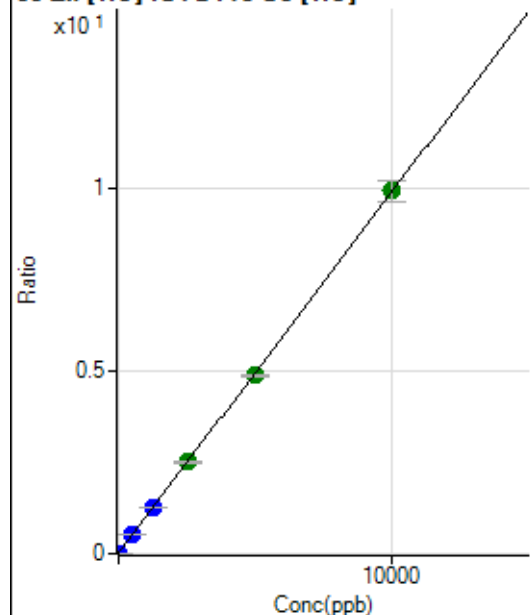
$$R = 0.9999$$

$$DL = 0.01614$$

$$BEC = 0.4167$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16255.61	0.0190	P	1.4
2	☐	2.000	1.866	17965.34	0.0208	P	0.1
3	☐	500.000	502.715	436690.40	0.5145	P	1.4
4	☐	1250.000	1238.636	1053079.13	1.2399	P	0.2
5	☐	2500.000	2516.102	2095569.50	2.4990	A	0.3
6	☐	5000.000	4914.378	4103790.49	4.8630	A	0.3
7	☐	10000.000	10040.070	8078579.74	9.9152	A	5.9
8	☐			22133.14	0.0276	P	1.8

$$y = 9.8567E-004 * x + 0.0190$$

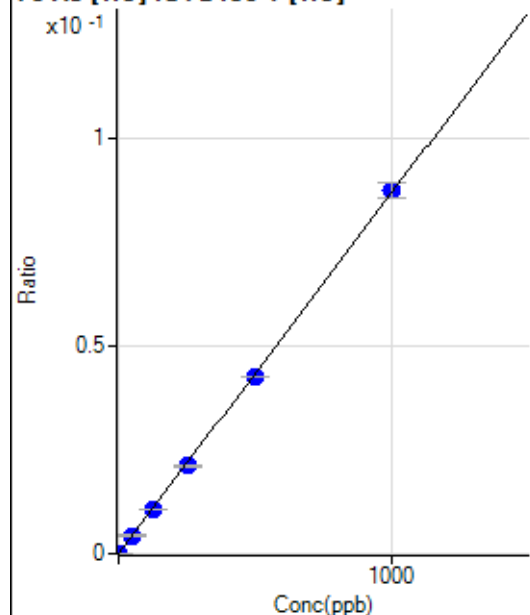
$$R = 0.9999$$

$$DL = 0.8116$$

$$BEC = 19.27$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18.89	0.0000	P	83.2
2	☐	1.000	0.974	567.79	0.0001	P	4.8
3	☐	50.000	50.210	27920.77	0.0044	P	1.9
4	☐	125.000	121.536	68286.05	0.0106	P	0.1
5	☐	250.000	244.053	137172.33	0.0212	P	1.8
6	☐	500.000	491.406	278048.95	0.0427	P	0.5
7	☐	1000.000	1006.206	553061.32	0.0875	P	4.4
8	☐			185.56	0.0000	P	4.8

$$y = 8.6922E-005 * x + 2.9436E-006$$

$$R = 0.9999$$

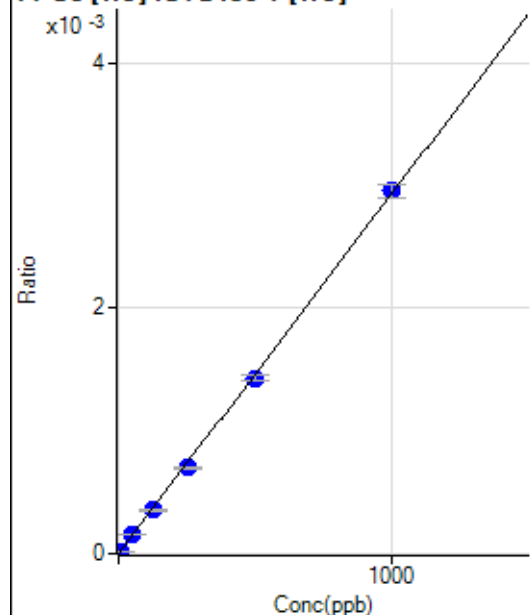
$$DL = 0.08456$$

$$BEC = 0.03386$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.026	95.56	0.0000	P	16.1
3	☐	50.000	52.158	977.82	0.0002	P	1.5
4	☐	125.000	121.636	2304.65	0.0004	P	4.4
5	☐	250.000	238.279	4517.40	0.0007	P	1.3
6	☐	500.000	489.005	9333.02	0.0014	P	2.5
7	☐	1000.000	1008.740	18707.46	0.0030	P	3.7
8	☐			85.56	0.0000	P	22.6

$$y = 2.9322\text{E-}006 * x + 0.0000\text{E}+000$$

$$R = 0.9998$$

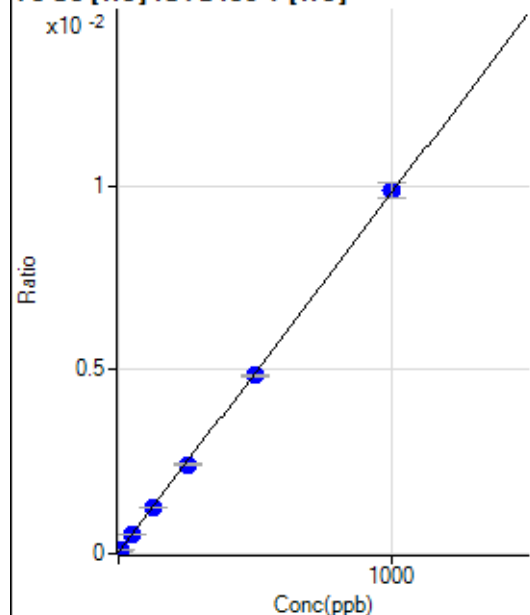
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	263.34	0.0000	P	7.5
2	☐	5.000	5.650	621.13	0.0001	P	3.4
3	☐	50.000	50.269	3400.42	0.0005	P	2.4
4	☐	125.000	122.286	7984.44	0.0012	P	0.4
5	☐	250.000	243.803	15665.07	0.0024	P	2.8
6	☐	500.000	491.490	31525.79	0.0048	P	1.1
7	☐	1000.000	1006.127	62429.79	0.0099	P	4.2
8	☐			574.46	0.0001	P	5.8

$$y = 9.7717\text{E-}006 * x + 4.0631\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.94$$

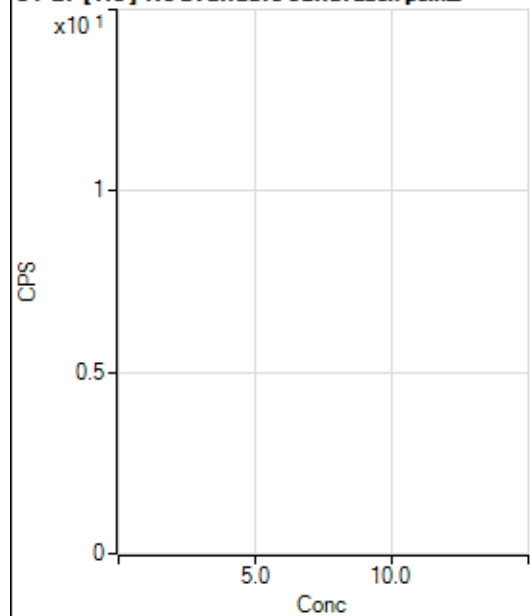
$$BEC = 4.158$$

Weight: <None>

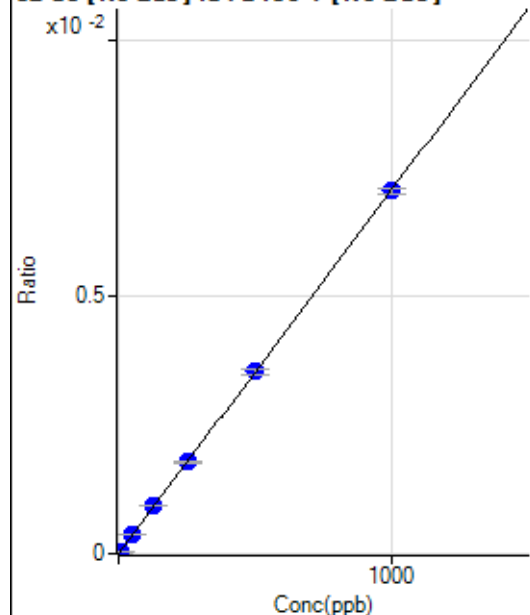
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			29054.35		P	1.1
2	☐			29059.90		P	2.2
3	☐			28948.48		P	2.9
4	☐			28787.10		P	0.9
5	☐			28273.85		P	1.2
6	☐			28674.67		P	2.2
7	☐			29741.25		P	4.0
8	☐			33700.87		P	4.2

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			140.00		P	31.2
2	☐			161.12		P	6.7
3	☐			165.56		P	4.2
4	☐			127.78		P	13.4
5	☐			162.23		P	15.6
6	☐			176.67		P	13.1
7	☐			226.67		P	6.4
8	☐			1145.61		P	1.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.97	0.0000	P	1111.
2	☐	5.000	5.479	1024.91	0.0000	P	15.2
3	☐	50.000	54.019	10425.90	0.0004	P	1.5
4	☐	125.000	132.367	25443.48	0.0009	P	2.6
5	☐	250.000	252.825	50362.27	0.0018	P	2.3
6	☐	500.000	500.534	102572.96	0.0035	P	3.8
7	☐	1000.000	997.902	203407.13	0.0071	P	1.7
8	☐			1235.67	0.0000	P	1.2

$$y = 7.0780E-006 * x + 6.9472E-008$$

$$R = 1.0000$$

$$DL = 0.3274$$

$$BEC = 0.009815$$

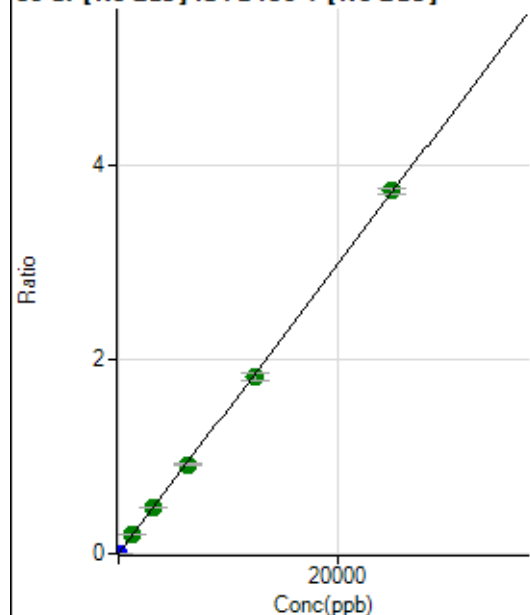
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			173.34		P	17.1
2	☐			175.56		P	9.7
3	☐			154.45		P	10.9
4	☐			141.11		P	25.3
5	☐			192.23		P	8.6
6	☐			187.78		P	2.7
7	☐			216.67		P	23.1
8	☐			238.89		P	4.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	281.12	0.0000	P	17.4
2	☐	1.000	0.969	4083.94	0.0002	P	11.6
3	☐	1250.000	1282.804	5204946.90	0.1909	A	1.7
4	☐	3125.000	3195.850	12919668.56	0.4757	A	2.0
5	☐	6250.000	6157.255	25792540.45	0.9165	A	1.9
6	☐	12500.000	12249.669	52780401.99	1.8233	A	4.9
7	☐	25000.000	25137.855	107751220.62	3.7416	A	1.6
8	☐			21012.10	0.0008	P	38.1

$$y = 1.4884\text{E-}004 * x + 1.0124\text{E-}005$$

$$R = 0.9999$$

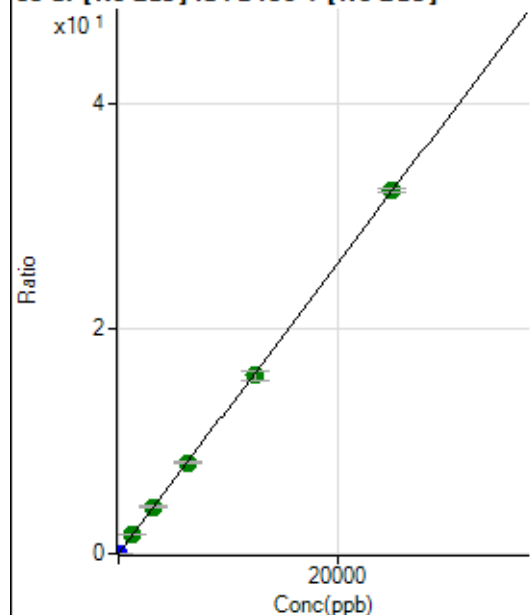
$$DL = 0.03541$$

$$BEC = 0.06802$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	360.01	0.0000	P	2.4
2	☐	1.000	1.001	34357.88	0.0013	P	13.7
3	☐	1250.000	1293.932	45381354.88	1.6648	A	1.3
4	☐	3125.000	3234.522	113019033.87	4.1615	A	2.3
5	☐	6250.000	6255.978	226515816.63	8.0489	A	2.2
6	☐	12500.000	12310.560	458505673.17	15.8386	A	4.8
7	☐	25000.000	25077.339	929163061.71	32.2642	A	1.0
8	☐			173381.95	0.0066	P	35.2

$$y = 0.0013 * x + 1.2970\text{E-}005$$

$$R = 0.9999$$

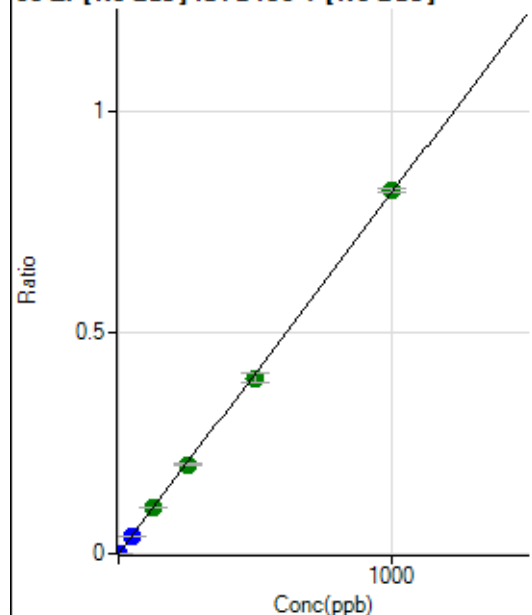
$$DL = 0.0007146$$

$$BEC = 0.01008$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1098.94	0.0000	P	8.1
2	☐	1.000	0.906	20614.56	0.0008	P	11.5
3	☐	50.000	49.705	1107438.63	0.0406	P	0.8
4	☐	125.000	128.220	2843983.08	0.1047	A	3.1
5	☐	250.000	247.823	5695680.26	0.2024	A	1.0
6	☐	500.000	487.689	11527390.80	0.3982	A	5.2
7	☐	1000.000	1006.312	23662891.59	0.8217	A	1.2
8	☐			11629.42	0.0004	P	16.1

$$y = 8.1648\text{E-}004 * x + 3.9598\text{E-}005$$

$$R = 0.9999$$

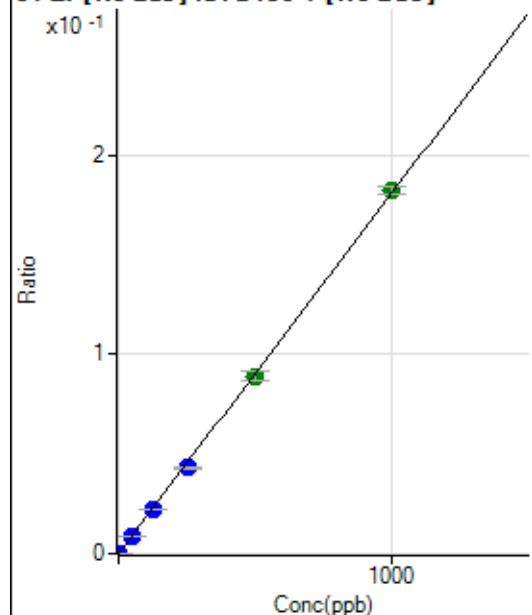
$$DL = 0.01179$$

$$BEC = 0.0485$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	195.56	0.0000	P	7.9
2	☐	1.000	0.860	4287.33	0.0002	P	13.8
3	☐	50.000	49.663	244760.20	0.0090	P	0.7
4	☐	125.000	123.326	605217.86	0.0223	P	2.2
5	☐	250.000	239.151	1215977.73	0.0432	P	2.1
6	☐	500.000	491.662	2571076.06	0.0888	A	5.5
7	☐	1000.000	1007.108	5239172.74	0.1819	A	2.0
8	☐			2605.83	0.0001	P	14.1

$$y = 1.8064\text{E-}004 * x + 7.0462\text{E-}006$$

$$R = 0.9999$$

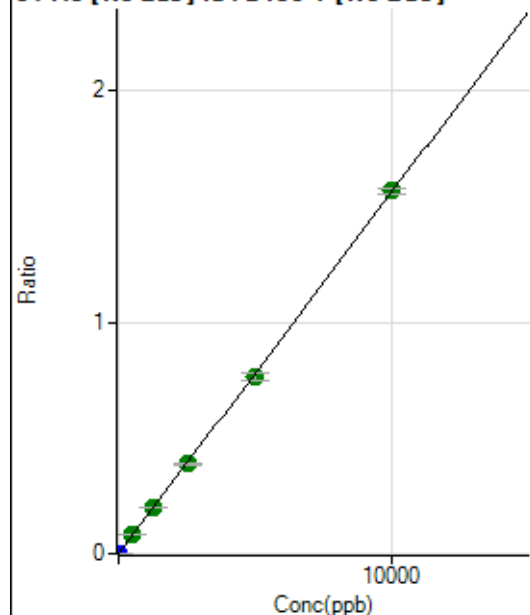
$$DL = 0.009289$$

$$BEC = 0.03901$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	390.01	0.0000	P	3.4
2	☐	5.000	5.849	24478.30	0.0009	P	14.1
3	☐	500.000	518.226	2205334.62	0.0809	A	1.2
4	☐	1250.000	1281.419	5431473.53	0.2000	A	2.6
5	☐	2500.000	2493.478	10952636.51	0.3892	A	1.6
6	☐	5000.000	4901.369	22143967.86	0.7650	A	5.2
7	☐	10000.000	10046.107	45153747.66	1.5679	A	1.7
8	☐			13562.30	0.0005	P	22.0

$$y = 1.5607\text{E-}004 * x + 1.4050\text{E-}005$$

$$R = 0.9999$$

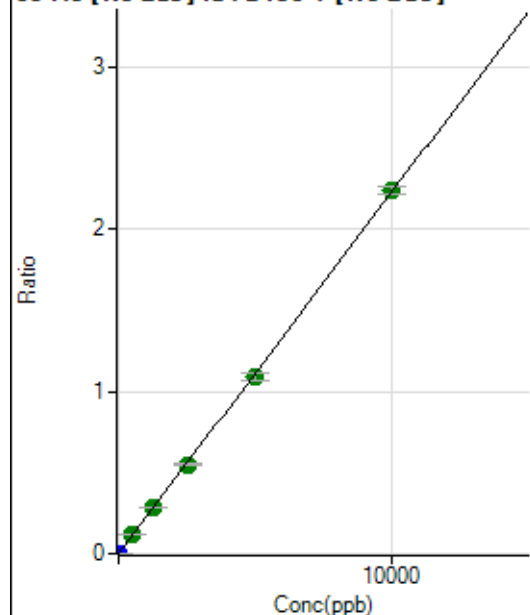
$$DL = 0.009294$$

$$BEC = 0.09002$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	173.34	0.0000	P	2.2
2	☐	5.000	5.069	29980.74	0.0011	P	13.5
3	☐	500.000	512.382	3109915.06	0.1141	A	1.4
4	☐	1250.000	1271.762	7689106.07	0.2832	A	2.7
5	☐	2500.000	2473.763	15500667.69	0.5508	A	2.3
6	☐	5000.000	4914.070	31675120.64	1.0941	A	4.2
7	☐	10000.000	10046.185	64413380.70	2.2368	A	2.1
8	☐			15035.01	0.0006	P	26.1

$$y = 2.2265\text{E-}004 * x + 6.2450\text{E-}006$$

$$R = 0.9999$$

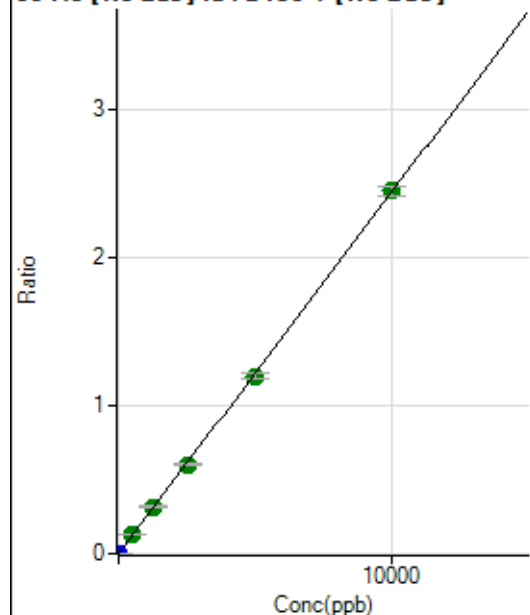
$$DL = 0.001836$$

$$BEC = 0.02805$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	268.90	0.0000	P	10.9
2	☐	5.000	5.144	33483.85	0.0013	P	13.4
3	☐	500.000	515.886	3439058.01	0.1262	A	1.1
4	☐	1250.000	1286.135	8538589.11	0.3145	A	3.4
5	☐	2500.000	2474.509	17028658.64	0.6051	A	1.7
6	☐	5000.000	4921.341	34838943.92	1.2034	A	4.1
7	☐	10000.000	10040.391	70700324.50	2.4551	A	2.4
8	☐			32175.02	0.0012	P	14.3

$$y = 2.4452E-004 * x + 9.6858E-006$$

$$R = 0.9999$$

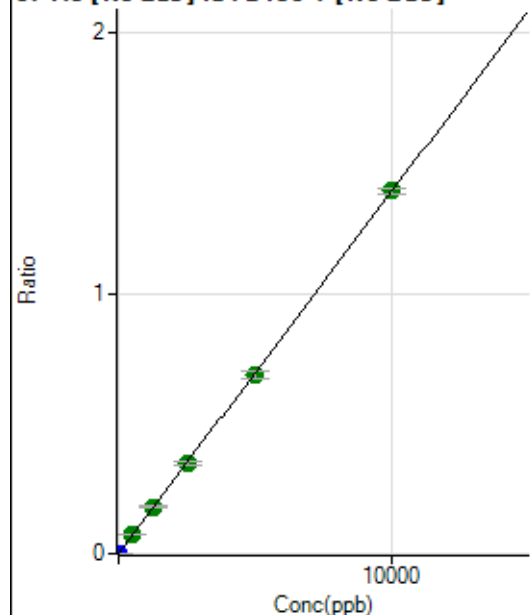
$$DL = 0.013$$

$$BEC = 0.03961$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	92.22	0.0000	P	8.8
2	☐	5.000	5.121	18882.29	0.0007	P	14.5
3	☐	500.000	518.222	1964727.09	0.0721	A	0.2
4	☐	1250.000	1292.560	4880917.77	0.1797	A	2.6
5	☐	2500.000	2486.481	9730362.77	0.3458	A	3.1
6	☐	5000.000	4945.541	19909227.48	0.6877	A	4.2
7	☐	10000.000	10024.378	40141939.40	1.3939	A	1.5
8	☐			9750.23	0.0004	P	25.4

$$y = 1.3905E-004 * x + 3.3219E-006$$

$$R = 1.0000$$

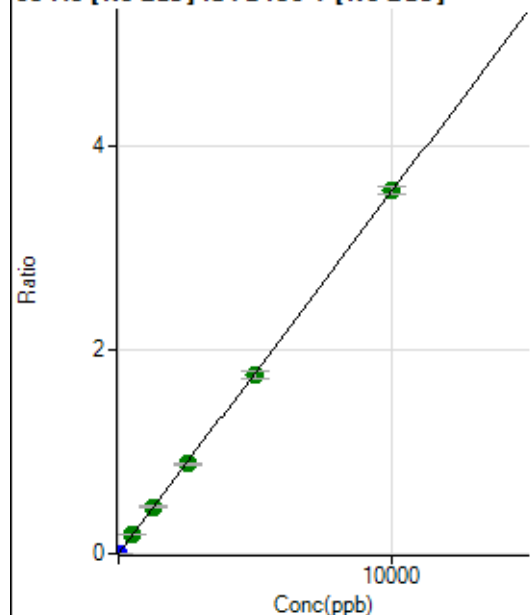
$$DL = 0.006338$$

$$BEC = 0.02389$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	275.56	0.0000	P	11.3
2	☐	5.000	5.111	48054.31	0.0018	P	14.4
3	☐	500.000	515.913	4982920.20	0.1828	A	0.3
4	☐	1250.000	1286.880	12378937.59	0.4559	A	2.9
5	☐	2500.000	2475.153	24675733.24	0.8768	A	2.9
6	☐	5000.000	4949.830	50762615.36	1.7535	A	4.5
7	☐	10000.000	10025.891	102280258.48	3.5517	A	2.1
8	☐			23054.05	0.0009	P	27.9

$$y = 3.5425\text{E-}004 * x + 9.9256\text{E-}006$$

$$R = 1.0000$$

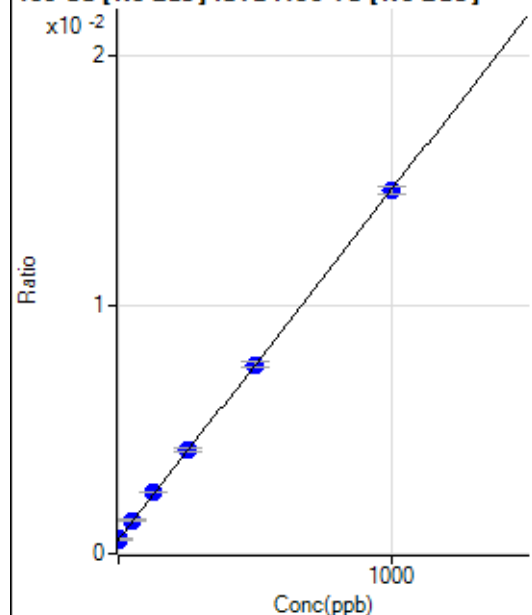
$$DL = 0.00946$$

$$BEC = 0.02802$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13147.16	0.0006	P	2.0
2	☐	1.000	1.533	13060.54	0.0006	P	2.4
3	☐	50.000	55.655	30927.35	0.0013	P	1.9
4	☐	125.000	134.435	56670.04	0.0025	P	1.2
5	☐	250.000	256.660	99259.73	0.0042	P	2.9
6	☐	500.000	500.551	186699.69	0.0076	P	3.6
7	☐	1000.000	996.597	359253.28	0.0146	P	2.2
8	☐			12387.61	0.0006	P	2.4

$$y = 1.4060\text{E-}005 * x + 5.6212\text{E-}004$$

$$R = 0.9999$$

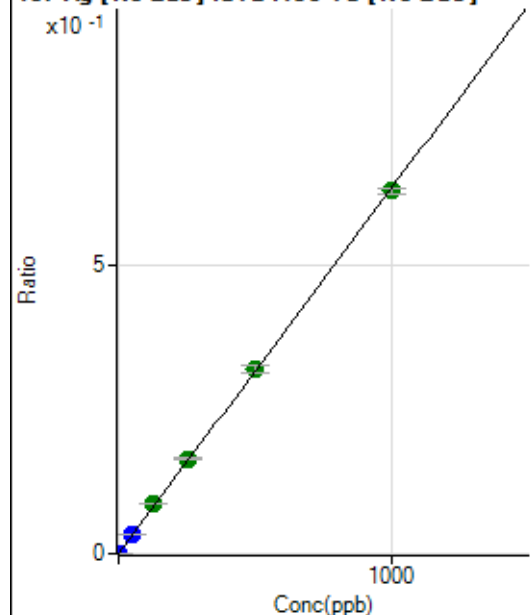
$$DL = 2.448$$

$$BEC = 39.98$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	185.56	0.0000	P	7.3
2	☐	1.000	1.071	15150.26	0.0007	P	17.7
3	☐	50.000	55.005	802677.51	0.0349	P	0.7
4	☐	125.000	135.871	1991710.28	0.0862	A	0.4
5	☐	250.000	260.087	3926127.89	0.1650	A	1.9
6	☐	500.000	506.072	7885666.62	0.3210	A	4.1
7	☐	1000.000	992.833	15522976.44	0.6297	A	1.7
8	☐			5302.15	0.0002	P	19.6

$$y = 6.3425E-004 * x + 7.9328E-006$$

$$R = 0.9999$$

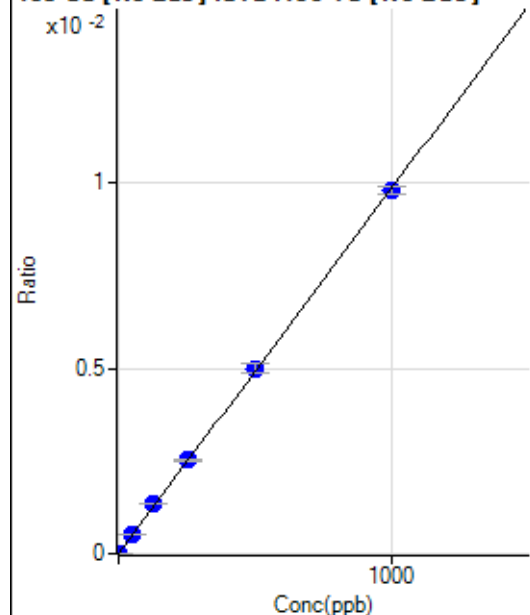
$$DL = 0.002744$$

$$BEC = 0.01251$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32.22	0.0000	P	33.1
2	☐	1.000	1.154	280.01	0.0000	P	21.4
3	☐	50.000	54.743	12427.65	0.0005	P	0.8
4	☐	125.000	135.304	30807.17	0.0013	P	1.4
5	☐	250.000	257.585	60377.32	0.0025	P	2.2
6	☐	500.000	506.375	122464.37	0.0050	P	4.9
7	☐	1000.000	993.391	241077.35	0.0098	P	2.2
8	☐			206.67	0.0000	P	12.3

$$y = 9.8438E-006 * x + 1.3769E-006$$

$$R = 0.9999$$

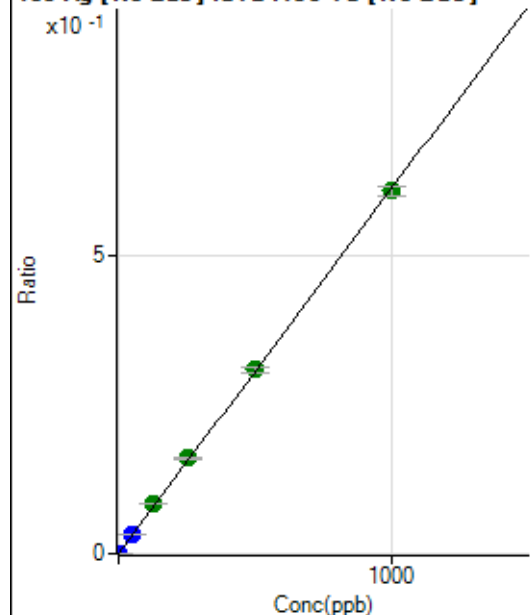
$$DL = 0.1389$$

$$BEC = 0.1399$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.33	0.0000	P	14.3
2	☐	1.000	1.045	14213.75	0.0006	P	15.8
3	☐	50.000	54.012	762099.79	0.0331	P	0.6
4	☐	125.000	135.913	1926211.62	0.0834	A	0.9
5	☐	250.000	261.912	3822840.53	0.1606	A	2.3
6	☐	500.000	503.833	7590857.04	0.3090	A	3.6
7	☐	1000.000	993.541	15019613.80	0.6093	A	2.5
8	☐			4880.90	0.0002	P	17.3

$$y = 6.1329\text{E-}004 * x + 2.7089\text{E-}006$$

$$R = 0.9999$$

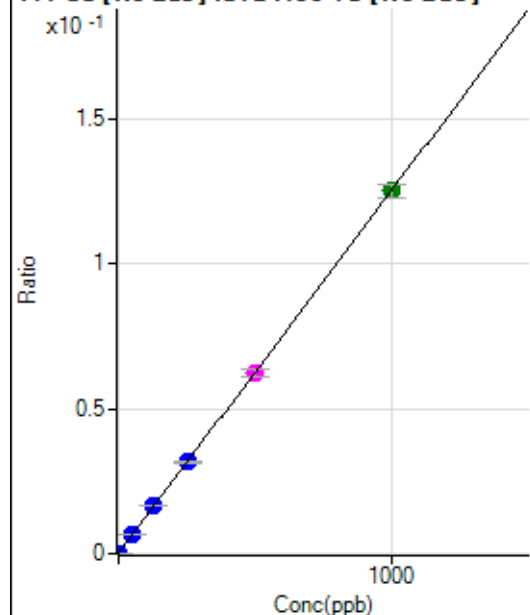
$$DL = 0.001897$$

$$BEC = 0.004417$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2666.87	0.0001	P	1.9
2	☐	1.000	1.084	5553.15	0.0002	P	6.6
3	☐	50.000	53.497	156525.78	0.0068	P	1.3
4	☐	125.000	131.544	382807.06	0.0166	P	1.2
5	☐	250.000	251.976	752738.34	0.0316	P	2.8
6	☐	500.000	498.157	1533142.55	0.0624	M	4.9
7	☐	1000.000	999.435	3083722.12	0.1251	A	4.0
8	☐			3956.29	0.0002	P	6.8

$$y = 1.2507\text{E-}004 * x + 1.1402\text{E-}004$$

$$R = 1.0000$$

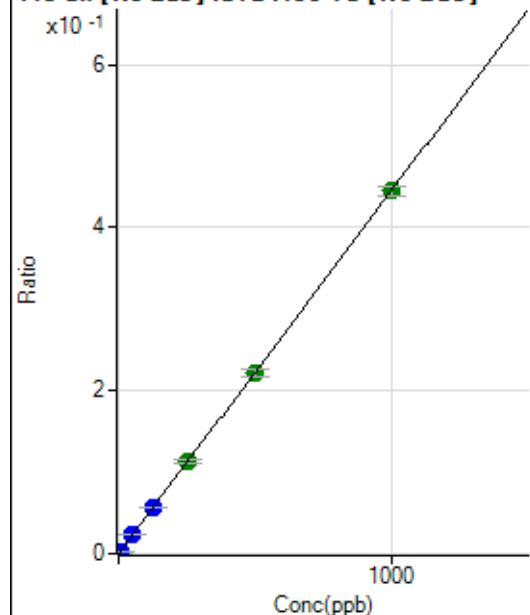
$$DL = 0.05106$$

$$BEC = 0.9116$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2088.80	0.0001	P	55.2
2	☐	5.000	5.036	51579.68	0.0023	P	14.0
3	☐	50.000	51.819	532934.68	0.0232	P	0.9
4	☐	125.000	127.614	1315438.84	0.0569	P	0.9
5	☐	250.000	254.639	2701134.86	0.1135	A	2.7
6	☐	500.000	497.924	5449033.42	0.2219	A	5.0
7	☐	1000.000	999.461	10974460.81	0.4452	A	2.6
8	☐			8107.21	0.0004	P	6.9

$$y = 4.4538\text{E-}004 * x + 8.9428\text{E-}005$$

$$R = 1.0000$$

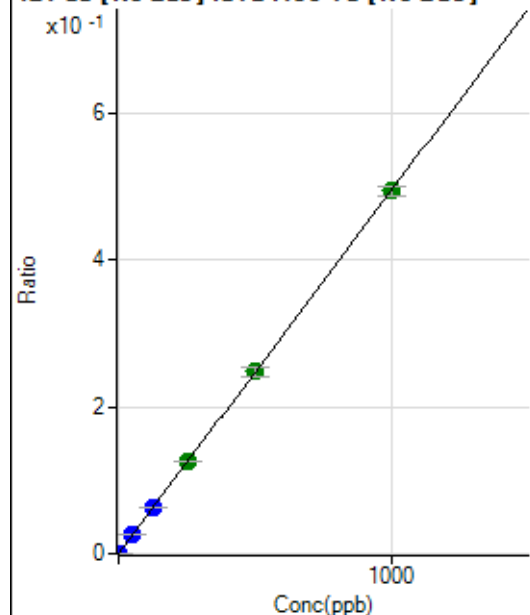
$$DL = 0.3323$$

$$BEC = 0.2008$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	338.90	0.0000	P	10.6
2	☐	2.000	2.007	22258.40	0.0010	P	13.5
3	☐	50.000	51.059	580725.72	0.0252	P	0.9
4	☐	125.000	127.076	1451447.44	0.0628	P	1.1
5	☐	250.000	253.712	2984290.79	0.1254	A	1.3
6	☐	500.000	500.445	6074046.09	0.2473	A	5.6
7	☐	1000.000	998.537	12163217.74	0.4935	A	2.9
8	☐			8150.16	0.0004	P	5.5

$$y = 4.9418\text{E-}004 * x + 1.4487\text{E-}005$$

$$R = 1.0000$$

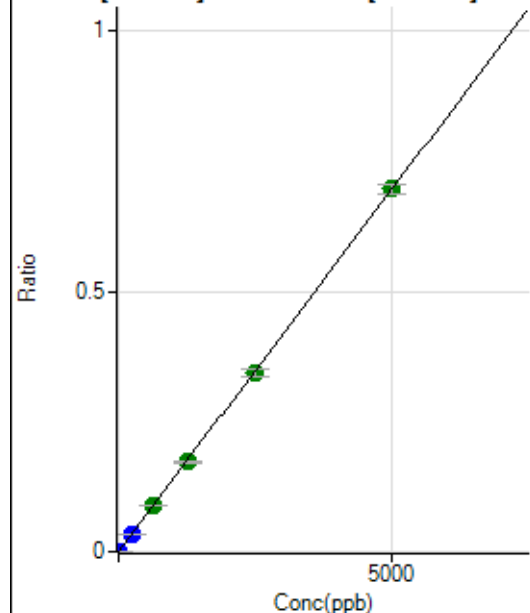
$$DL = 0.009298$$

$$BEC = 0.02931$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	185.56	0.0000	P	8.1
2	☐	10.000	9.684	29986.05	0.0014	P	13.3
3	☐	250.000	247.933	793485.62	0.0345	P	0.7
4	☐	625.000	642.744	2066512.43	0.0894	A	0.4
5	☐	1250.000	1243.817	4117711.08	0.1730	A	2.4
6	☐	2500.000	2474.922	8456325.57	0.3443	A	4.4
7	☐	5000.000	5011.971	17184475.44	0.6972	A	2.7
8	☐			10352.76	0.0005	P	8.9

$$y = 1.3910E-004 * x + 7.9333E-006$$

$$R = 1.0000$$

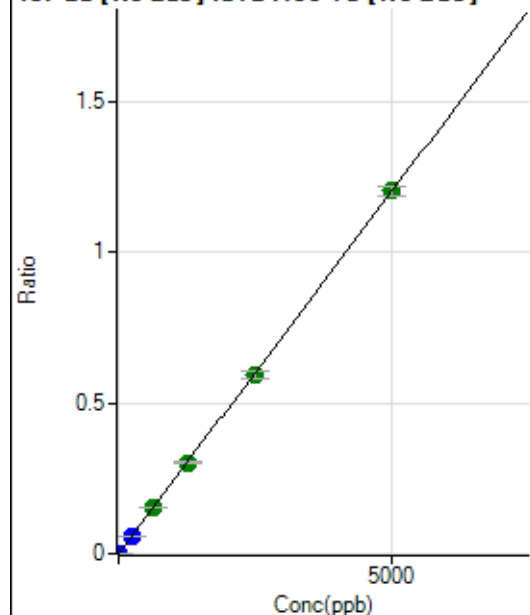
$$DL = 0.01381$$

$$BEC = 0.05703$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	324.45	0.0000	P	12.9
2	☐	10.000	9.754	52203.14	0.0024	P	13.9
3	☐	250.000	250.985	1389109.89	0.0604	P	0.5
4	☐	625.000	640.953	3563486.99	0.1542	A	0.3
5	☐	1250.000	1253.890	7178625.52	0.3016	A	2.5
6	☐	2500.000	2471.077	14599644.37	0.5944	A	5.1
7	☐	5000.000	5011.446	29715200.39	1.2055	A	2.4
8	☐			17393.00	0.0008	P	8.7

$$y = 2.4055E-004 * x + 1.3879E-005$$

$$R = 1.0000$$

$$DL = 0.02235$$

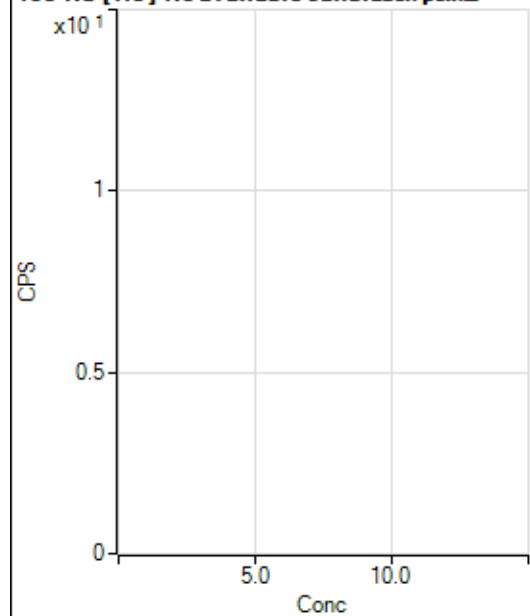
$$BEC = 0.0577$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.33		P	66.1
2	☐			23.33		P	14.3
3	☐			142.22		P	4.9
4	☐			272.23		P	4.6
5	☐			523.35		P	6.7
6	☐			1011.16		P	7.9
7	☐			1923.49		P	1.7
8	☐			534.46		P	4.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			10.00		P	33.3
3	☐			38.89		P	13.1
4	☐			76.67		P	26.4
5	☐			118.89		P	9.8
6	☐			260.01		P	9.7
7	☐			471.13		P	10.4
8	☐			298.90		P	14.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			20.00		P	76.4
2	☐			25.56		P	60.2
3	☐			85.56		P	25.9
4	☐			138.89		P	7.7
5	☐			292.23		P	5.3
6	☐			537.79		P	8.4
7	☐			1070.05		P	7.2
8	☐			3240.41		P	3.8

156 Dy [He] No available calibration points

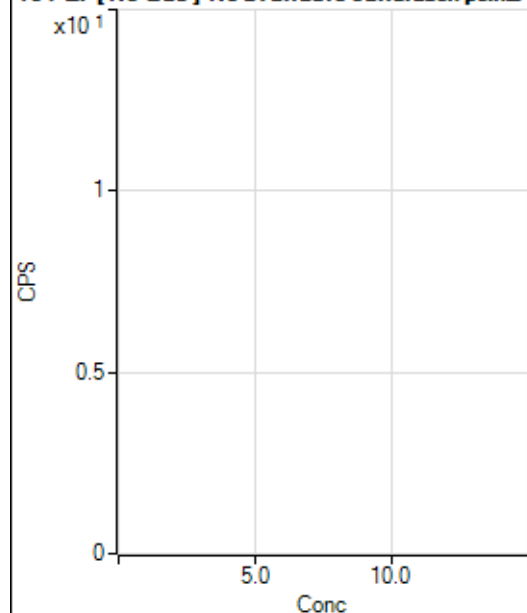
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	22.9
2	☐			33.33		P	26.5
3	☐			67.78		P	2.8
4	☐			168.89		P	12.1
5	☐			307.78		P	16.3
6	☐			580.02		P	2.3
7	☐			1135.61		P	4.3
8	☐			2117.96		P	5.1

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

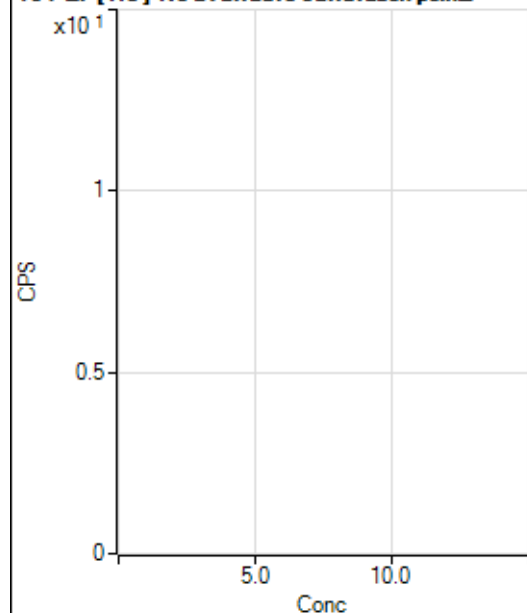
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			188.89		P	10.2
2	☐			155.56		P	19.4
3	☐			213.34		P	13.4
4	☐			263.34		P	17.1
5	☐			366.67		P	4.8
6	☐			587.79		P	14.6
7	☐			1001.16		P	10.8
8	☐			3719.42		P	4.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			910.04		P	10.1
2	☐			827.81		P	4.8
3	☐			806.70		P	8.5
4	☐			816.70		P	2.7
5	☐			925.60		P	11.7
6	☐			1082.28		P	1.5
7	☐			1291.18		P	6.3
8	☐			3183.73		P	3.7

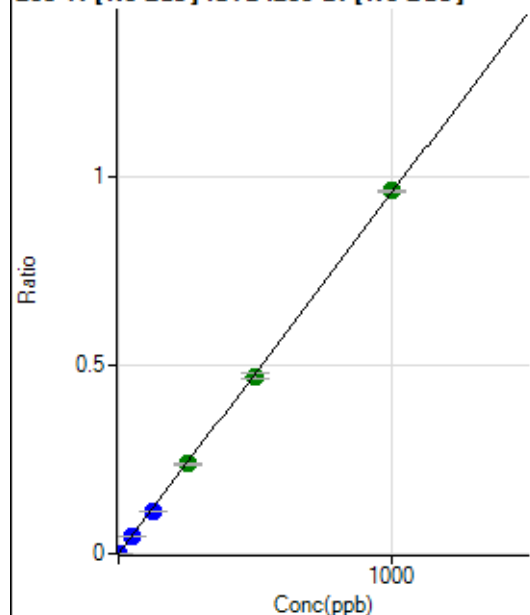
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			154.45		P	10.9
2	☐			158.89		P	14.9
3	☐			165.56		P	3.1
4	☐			203.34		P	7.1
5	☐			202.23		P	9.7
6	☐			303.34		P	10.6
7	☐			440.01		P	6.2
8	☐			455.57		P	7.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			105.56		P	14.9
2	☐			96.67		P	22.6
3	☐			108.89		P	10.7
4	☐			123.34		P	24.0
5	☐			148.89		P	8.5
6	☐			190.00		P	22.8
7	☐			284.45		P	9.5
8	☐			324.45		P	7.8

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	615.57	0.0000	P	3.3
2	☐	1.000	0.922	11364.86	0.0009	P	12.6
3	☐	50.000	47.202	571686.78	0.0453	P	0.8
4	☐	125.000	118.559	1425340.17	0.1138	P	1.1
5	☐	250.000	249.846	3093798.01	0.2397	A	1.8
6	☐	500.000	491.112	6191732.75	0.4711	A	3.1
7	☐	1000.000	1005.428	12444324.40	0.9644	A	0.7
8	☐			3281.56	0.0003	P	21.6

$$y = 9.5912\text{E-}004 * x + 4.7501\text{E-}005$$

$$R = 0.9999$$

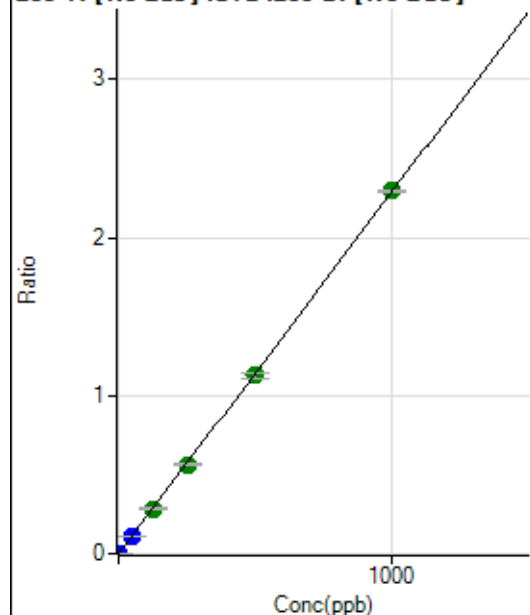
$$DL = 0.004912$$

$$BEC = 0.04953$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1466.76	0.0001	P	2.5
2	☐	1.000	0.923	27056.96	0.0022	P	14.2
3	☐	50.000	47.054	1357557.76	0.1076	P	0.6
4	☐	125.000	124.659	3569642.27	0.2849	A	1.5
5	☐	250.000	245.865	7252078.43	0.5618	A	2.9
6	☐	500.000	493.043	14805510.61	1.1265	A	4.0
7	☐	1000.000	1004.702	29621400.67	2.2955	A	0.5
8	☐			7416.62	0.0007	P	23.9

$$y = 0.0023 * x + 1.1318\text{E-}004$$

$$R = 1.0000$$

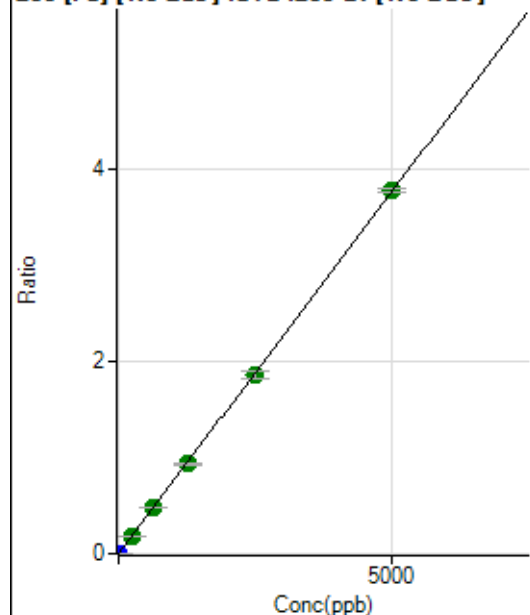
$$DL = 0.003651$$

$$BEC = 0.04954$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1271.19	0.0001	P	2.7
2	☐	1.000	0.925	9667.97	0.0008	P	12.4
3	☐	250.000	249.406	2364537.27	0.1875	A	1.2
4	☐	625.000	630.868	5939828.87	0.4740	A	0.3
5	☐	1250.000	1239.633	12021626.21	0.9313	A	2.0
6	☐	2500.000	2468.391	24372052.41	1.8544	A	3.7
7	☐	5000.000	5017.693	48641673.72	3.7694	A	0.9
8	☐			28261.95	0.0027	P	9.2

$$y = 7.5121E-004 * x + 9.8085E-005$$

$$R = 1.0000$$

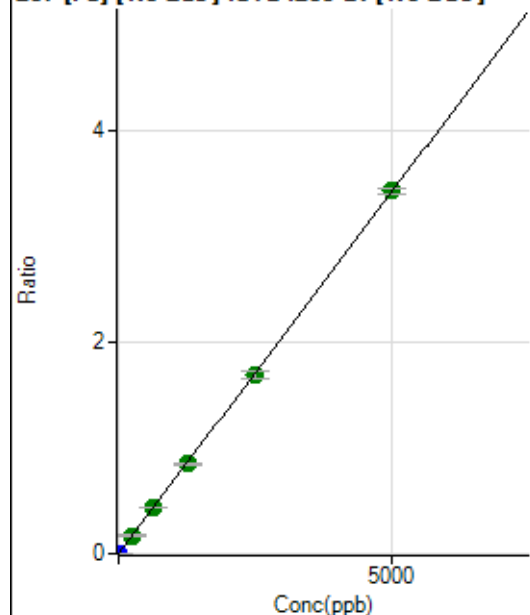
$$DL = 0.01077$$

$$BEC = 0.1306$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1081.17	0.0001	P	1.0
2	☐	1.000	0.935	8795.15	0.0007	P	14.5
3	☐	250.000	252.299	2176041.32	0.1725	A	0.9
4	☐	625.000	633.106	5421592.11	0.4327	A	1.3
5	☐	1250.000	1238.248	10923820.12	0.8463	A	1.2
6	☐	2500.000	2468.047	22166245.08	1.6867	A	4.6
7	☐	5000.000	5017.787	44249279.89	3.4291	A	1.5
8	☐			24800.68	0.0024	P	10.0

$$y = 6.8338E-004 * x + 8.3426E-005$$

$$R = 1.0000$$

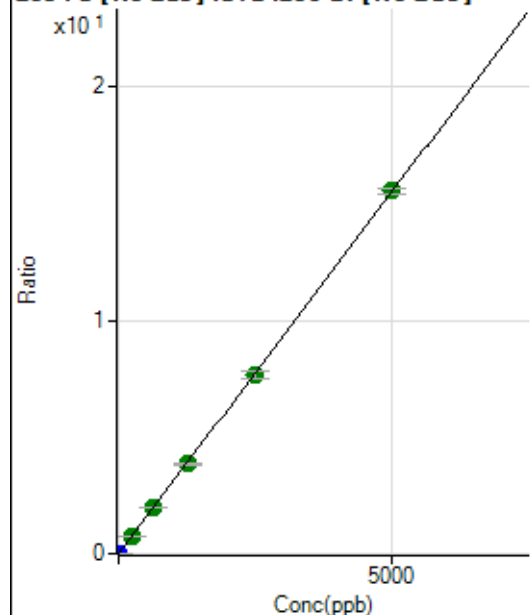
$$DL = 0.00379$$

$$BEC = 0.1221$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5177.12	0.0004	P	0.7
2	☐	1.000	0.923	39724.32	0.0033	P	13.0
3	☐	250.000	252.014	9857267.78	0.7814	A	0.3
4	☐	625.000	630.854	24497503.14	1.9554	A	1.7
5	☐	1250.000	1237.129	49493317.60	3.8343	A	1.8
6	☐	2500.000	2466.201	100451122.25	7.6432	A	4.0
7	☐	5000.000	5019.285	200725458.67	15.5552	A	1.2
8	☐			113788.90	0.0108	P	9.5

$$y = 0.0031 * x + 3.9948E-004$$

$$R = 1.0000$$

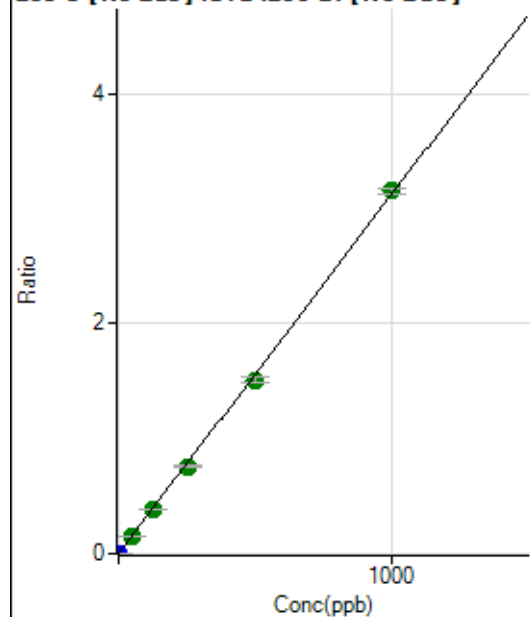
$$DL = 0.002558$$

$$BEC = 0.1289$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1316.75	0.0001	P	1.9
2	☐	1.000	0.892	35108.32	0.0029	P	14.2
3	☐	50.000	48.561	1912135.48	0.1516	A	0.6
4	☐	125.000	122.906	4805001.46	0.3835	A	0.8
5	☐	250.000	241.296	9717074.09	0.7528	A	2.3
6	☐	500.000	484.393	19859534.43	1.5111	A	4.1
7	☐	1000.000	1010.313	40668675.23	3.1516	A	1.3
8	☐			8469.57	0.0008	P	26.2

$$y = 0.0031 * x + 1.0161E-004$$

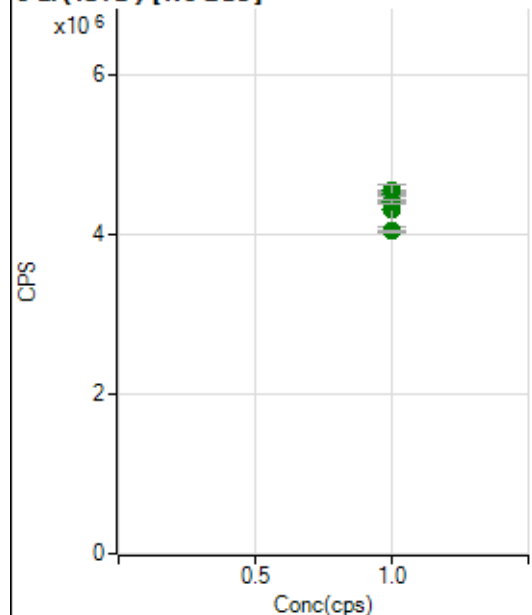
$$R = 0.9998$$

$$DL = 0.001856$$

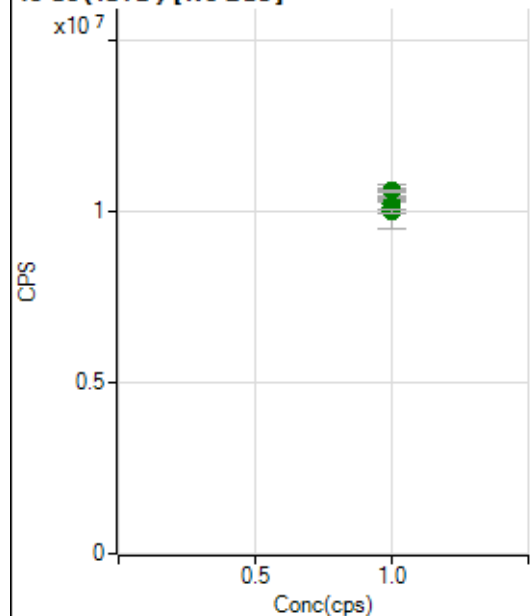
$$BEC = 0.03257$$

Weight: <None>

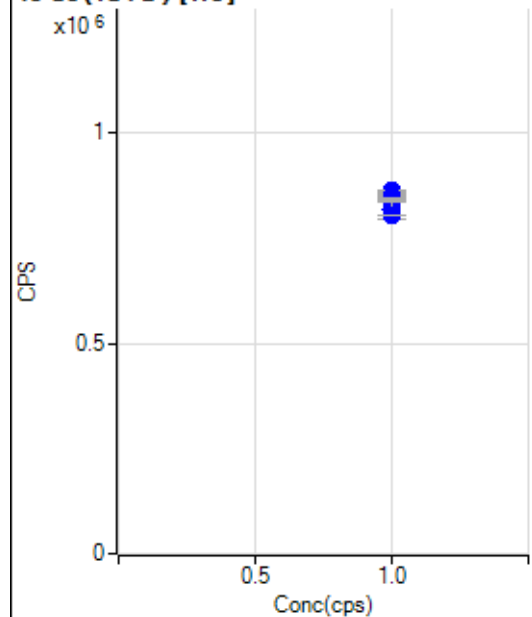
Min Conc: 0

6 Li (ISTD) [No Gas]

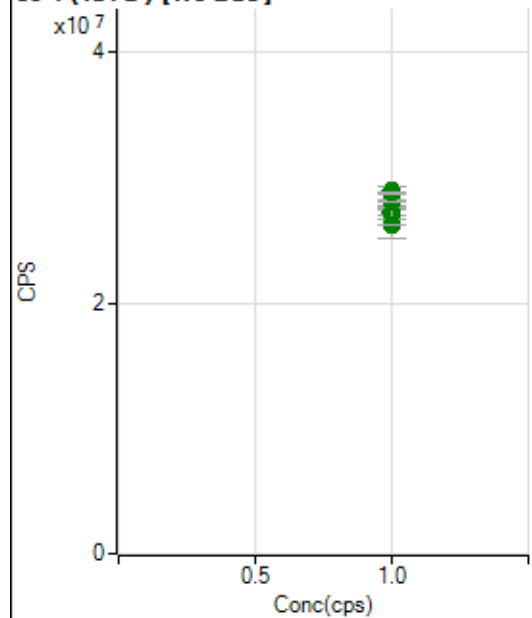
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4541314.48		A	1.1
2	☐	1.000		4319120.46		A	10.0
3	☐	1.000		4477048.44		A	2.8
4	☐	1.000		4472494.93		A	2.7
5	☐	1.000		4513786.70		A	1.2
6	☐	1.000		4548357.19		A	3.1
7	☐	1.000		4420689.17		A	1.1
8	☐	1.000		4039627.96		A	0.7

45 Sc (ISTD) [No Gas]

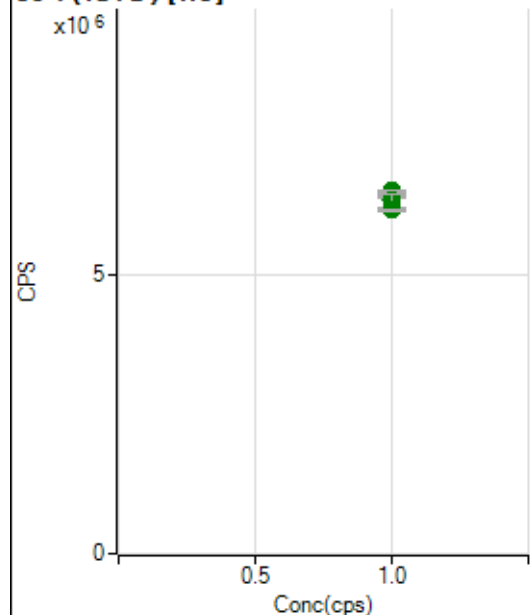
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10371252.00		A	0.6
2	☐	1.000		10114693.32		A	11.7
3	☐	1.000		10389657.14		A	1.8
4	☐	1.000		10224558.18		A	3.0
5	☐	1.000		10449174.57		A	0.7
6	☐	1.000		10602053.24		A	3.2
7	☐	1.000		10608882.97		A	0.3
8	☐	1.000		10000156.73		A	1.0

45 Sc (ISTD) [He]

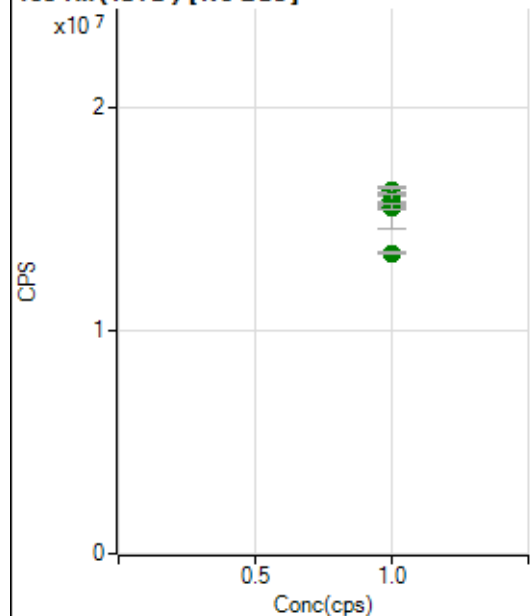
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		855829.14		P	0.6
2	☐	1.000		862376.32		P	0.1
3	☐	1.000		848806.31		P	0.7
4	☐	1.000		849338.64		P	0.4
5	☐	1.000		838549.20		P	0.3
6	☐	1.000		843889.31		P	0.2
7	☐	1.000		816309.95		P	4.8
8	☐	1.000		803227.75		P	0.1

89 Y (ISTD) [No Gas]

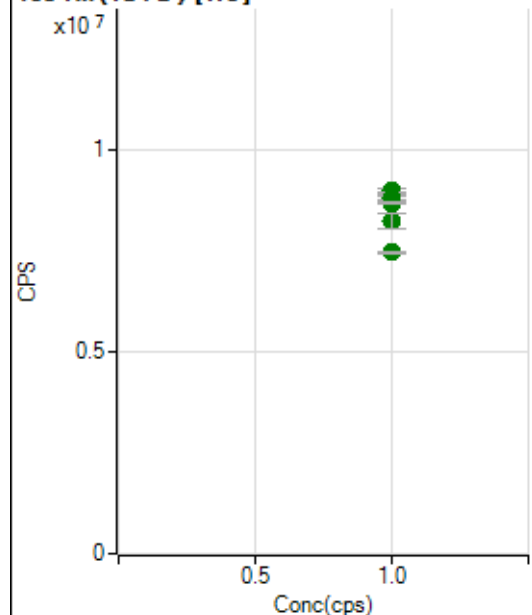
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		27757154.59		A	0.3
2	☐	1.000		26699980.16		A	11.8
3	☐	1.000		27264055.98		A	1.9
4	☐	1.000		27173531.54		A	3.8
5	☐	1.000		28143625.14		A	0.4
6	☐	1.000		28966882.07		A	2.0
7	☐	1.000		28799264.01		A	0.4
8	☐	1.000		26258261.28		A	0.4

89 Y(ISTD) [He]

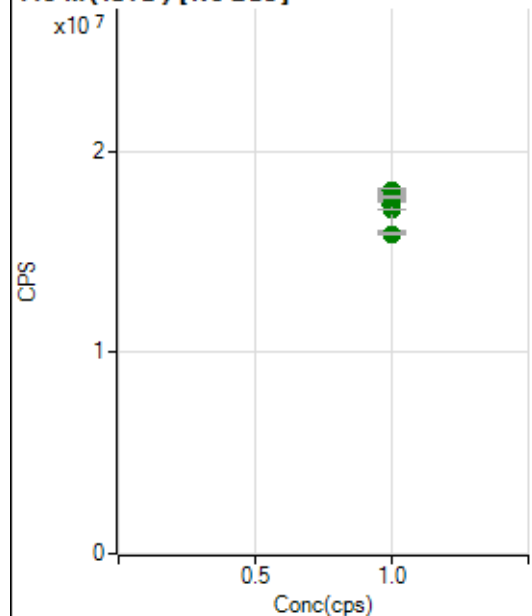
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6477420.25		A	1.7
2	☐	1.000		6481528.38		A	0.4
3	☐	1.000		6393421.57		A	0.3
4	☐	1.000		6462145.32		A	0.2
5	☐	1.000		6466258.79		A	1.2
6	☐	1.000		6509171.15		A	0.3
7	☐	1.000		6331126.09		A	4.2
8	☐	1.000		6170209.07		A	0.5

103 Rh(ISTD) [No Gas]

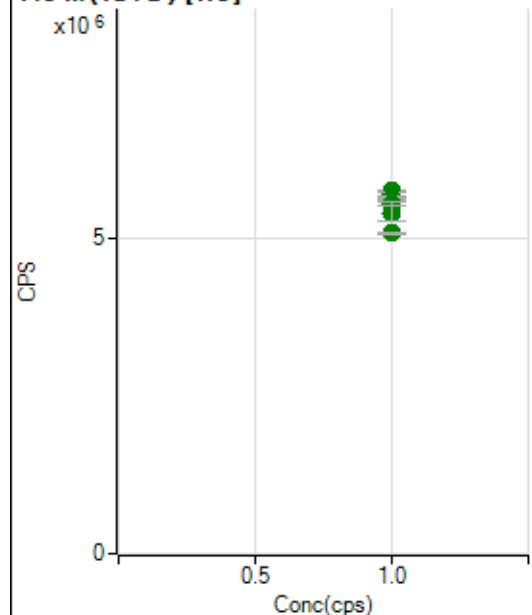
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16283607.95		A	0.9
2	☐	1.000		15521493.94		A	11.9
3	☐	1.000		15803442.13		A	2.6
4	☐	1.000		15799406.99		A	2.8
5	☐	1.000		15742566.71		A	0.3
6	☐	1.000		15907677.13		A	2.8
7	☐	1.000		15543080.32		A	1.7
8	☐	1.000		13492923.55		A	0.6

103 Rh (ISTD) [He]

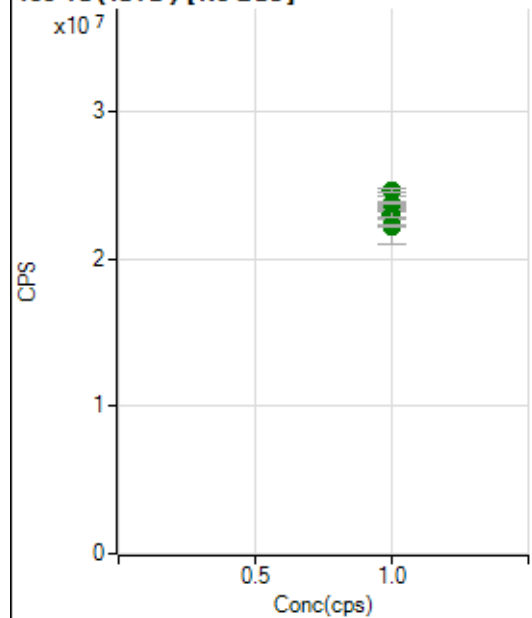
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8991186.53		A	1.6
2	☐	1.000		8938194.94		A	1.0
3	☐	1.000		8754019.10		A	0.6
4	☐	1.000		8811321.12		A	1.6
5	☐	1.000		8756223.90		A	0.5
6	☐	1.000		8690038.34		A	0.9
7	☐	1.000		8236120.02		A	4.7
8	☐	1.000		7467257.25		A	0.8

115 In (ISTD) [No Gas]

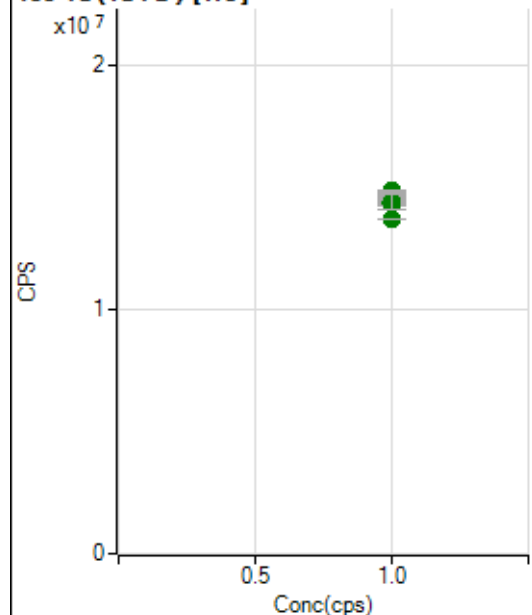
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		17917565.87		A	0.4
2	☐	1.000		17084679.88		A	11.8
3	☐	1.000		17348502.80		A	2.3
4	☐	1.000		17391926.39		A	2.7
5	☐	1.000		17740144.05		A	1.7
6	☐	1.000		18041165.16		A	1.5
7	☐	1.000		17699969.79		A	0.4
8	☐	1.000		15913661.85		A	0.6

115 In (ISTD) [He]

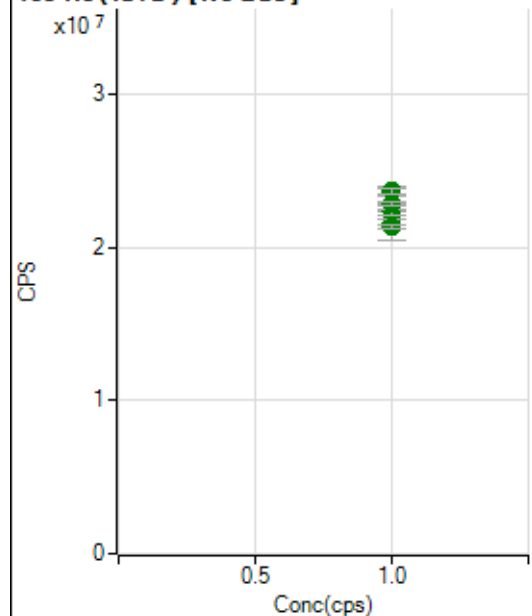
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5744929.81		A	0.8
2	☐	1.000		5749424.40		A	0.4
3	☐	1.000		5627060.54		A	0.7
4	☐	1.000		5697132.40		A	1.0
5	☐	1.000		5644978.42		A	0.6
6	☐	1.000		5550212.37		A	1.3
7	☐	1.000		5386621.77		A	4.3
8	☐	1.000		5080853.90		A	0.3

159 Tb (ISTD) [No Gas]

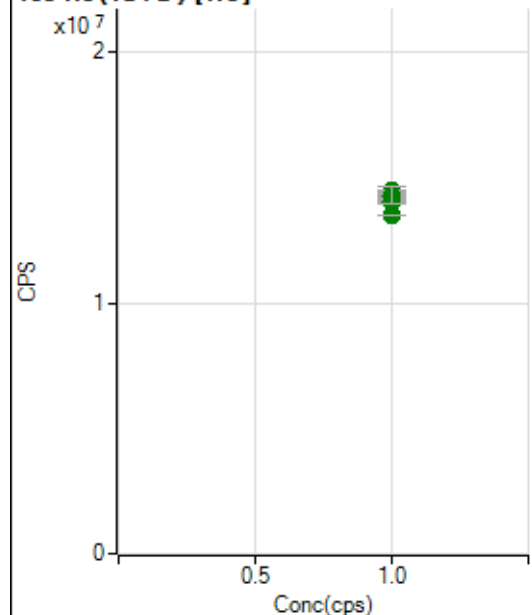
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		23389306.60		A	0.7
2	☐	1.000		22360145.36		A	11.8
3	☐	1.000		23004546.88		A	1.8
4	☐	1.000		23110987.71		A	2.2
5	☐	1.000		23800460.20		A	0.5
6	☐	1.000		24578816.85		A	2.2
7	☐	1.000		24653981.58		A	1.2
8	☐	1.000		22233827.17		A	0.5

159 Tb (ISTD) [He]

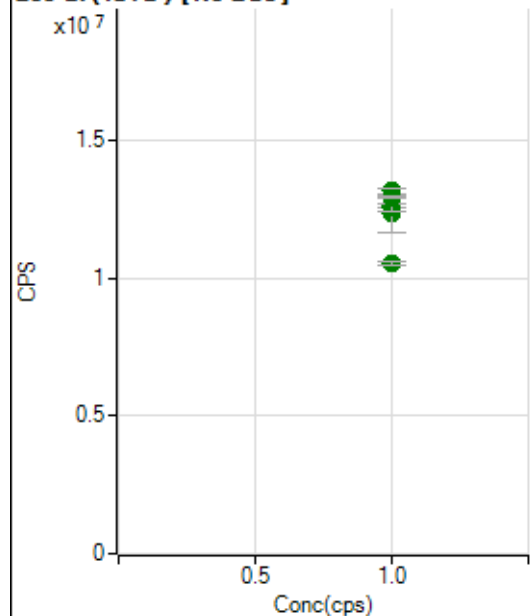
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14437059.23		A	0.6
2	☐	1.000		14355742.28		A	0.6
3	☐	1.000		14362671.03		A	1.0
4	☐	1.000		14664999.50		A	1.1
5	☐	1.000		14734174.09		A	0.5
6	☐	1.000		14873148.94		A	0.5
7	☐	1.000		14425110.76		A	4.6
8	☐	1.000		13712442.30		A	0.1

165 Ho (ISTD) [No Gas]

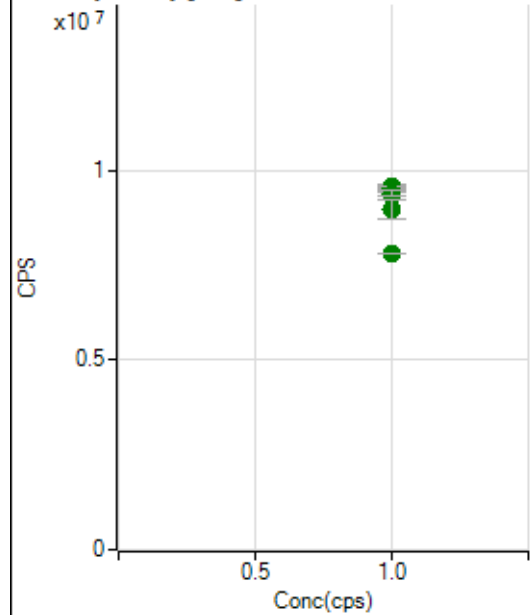
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		22400060.50		A	1.0
2	☐	1.000		21614258.29		A	11.2
3	☐	1.000		22055477.17		A	2.1
4	☐	1.000		22280688.00		A	1.8
5	☐	1.000		22874220.77		A	0.9
6	☐	1.000		23647314.37		A	2.2
7	☐	1.000		23681100.48		A	1.4
8	☐	1.000		21334464.27		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		14094286.04		A	1.0
2	☐	1.000		14008197.57		A	0.9
3	☐	1.000		14027533.68		A	1.5
4	☐	1.000		14346400.62		A	1.3
5	☐	1.000		14330482.98		A	0.5
6	☐	1.000		14467196.45		A	0.1
7	☐	1.000		14299372.29		A	5.3
8	☐	1.000		13502697.58		A	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12959673.83		A	0.2
2	☐	1.000		12309382.04		A	11.4
3	☐	1.000		12615339.12		A	1.3
4	☐	1.000		12531140.64		A	2.2
5	☐	1.000		12908080.78		A	0.0
6	☐	1.000		13147516.05		A	1.4
7	☐	1.000		12904070.92		A	0.4
8	☐	1.000		10543511.72		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9568781.59		A	1.0
2	☐	1.000		9461398.68		A	0.7
3	☐	1.000		9399712.01		A	1.9
4	☐	1.000		9515454.37		A	1.7
5	☐	1.000		9352496.46		A	0.1
6	☐	1.000		9390117.57		A	1.7
7	☐	1.000		8980905.00		A	5.5
8	☐	1.000		7818707.52		A	0.3

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7083023 MS.b

Acq. Date-Time 2023-08-30 11:11:19

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		12784	127840.58			0.742	5.000
24		516804	5168044.09			0.780	5.000
25		67219	672192.60			0.857	5.000
26		77809	778087.49			0.890	5.000
59		117262	1172616.12			0.858	5.000
113		15635	156353.57			0.842	5.000
115		198119	1981188.80			1.168	5.000
206		107918	1079177.07			1.382	5.000
207		93429	934293.83			0.849	5.000
208		228612	2286115.35			0.622	5.000
220		0	3.40			50.302	

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

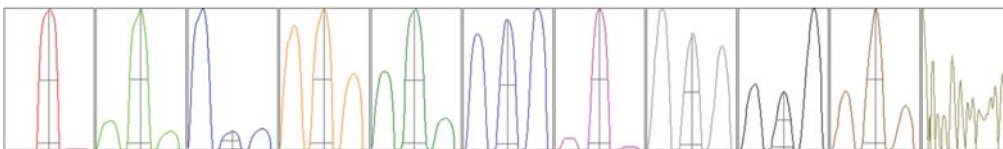
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12815	12747	12699	12724	12935
24	511577	515202	515697	519679	521867
25	66281	67212	67761	67234	67610
26	77469	78082	76862	77917	78713
59	117229	117521	115729	117290	118539
113	15762	15607	15523	15502	15783
115	200516	198050	195055	196754	200220
206	110051	107418	107494	106052	108574
207	94771	93268	92692	93046	93370
208	231085	227718	227620	228388	228246

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21710.49	9.00	8.90 - 9.10	
24	898801.72	24.00	23.90 - 24.10	
25	118201.75	25.00	24.90 - 25.10	
26	134608.99	26.00	25.90 - 26.10	
59	198881.06	58.95	58.90 - 59.10	
113	30596.15	113.00	112.90 - 113.10	
115	386277.86	115.00	114.90 - 115.10	
206	217642.64	206.05	205.90 - 206.10	
207	194368.09	207.05	206.90 - 207.10	
208	466003.44	208.05	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.736	0.900	
24	0.61	0.781	0.900	
25	0.60	0.744	0.900	
26	0.61	0.776	0.900	
59	0.61	0.792	0.900	
113	0.53	0.728	0.900	
115	0.53	0.716	0.900	
206	0.52	0.726	0.900	
207	0.48	0.738	0.900	
208	0.51	0.763	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas

0.82 L/min

Dilution Gas

0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.1 V	Deflect	14.6 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2296 V	Pulse HV	1486 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		37310	373099.89			4.112	
89		423041	4230409.59			4.876	
205		85703	857033.78			3.576	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	38367	37786	37739	34602	38056
89	435831	428127	429647	386623	434977
205	88576	87040	86084	80505	86312

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	1.8 V
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US EPA Tune Check Report

Extract 2	-130.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-70 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	131	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.15		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	4.8 mV	Analog HV	2296 V	Pulse HV	1486 V
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