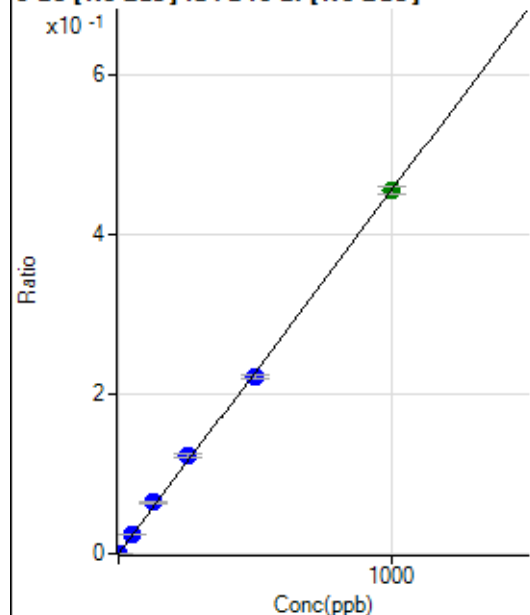


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8112021 MS.b\
Analysis File: P8112021 MS.batch.bin
DA Date-Time: 2021-11-20 23:08:55
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-11-20 14:33:53
2	005CAL.S.d	S02	2021-11-20 14:40:02
3	006CAL.S.d	S03	2021-11-20 14:43:08
4	007CAL.S.d	S04	2021-11-20 14:46:11
5	008CAL.S.d	S05	2021-11-20 14:49:16
6	009CAL.S.d	S06	2021-11-20 14:52:19
7	010CAL.S.d	S07	2021-11-20 14:55:25
8	011CAL.S.d	S08	2021-11-20 14:58:28

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	79.32	0.0000	P	31.9
2	☐	1.000	1.079	1357.13	0.0005	P	1.2
3	☐	50.000	53.602	63582.45	0.0244	P	2.2
4	☐	125.000	141.248	166852.20	0.0643	P	2.6
5	☐	250.000	270.707	340718.00	0.1232	P	4.3
6	☐	500.000	487.647	641346.01	0.2220	P	1.5
7	☐	1000.000	998.788	1296932.28	0.4547	A	2.3
8	☐			1108.49	0.0004	P	7.8

$$y = 4.5517E-004 * x + 3.1409E-005$$

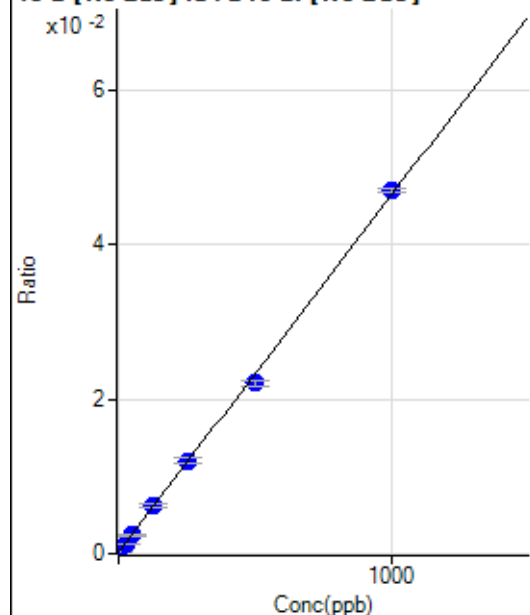
$$R = 0.9996$$

$$DL = 0.06595$$

$$BEC = 0.069$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	507.24	0.0002	P	2.7
2	☐	25.000	23.465	3345.06	0.0013	P	6.4
3	☐	50.000	48.193	6336.81	0.0024	P	6.5
4	☐	125.000	130.005	16119.05	0.0062	P	8.5
5	☐	250.000	256.440	33340.54	0.0121	P	8.0
6	☐	500.000	472.902	63850.92	0.0221	P	3.1
7	☐	1000.000	1011.442	134174.80	0.0470	P	1.2
8	☐			14693.84	0.0051	P	13.1

$$y = 4.6274E-005 * x + 2.0305E-004$$

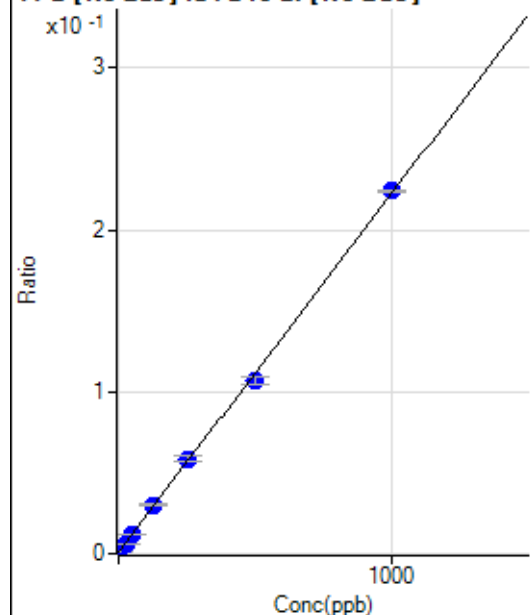
$$R = 0.9994$$

$$DL = 0.3581$$

$$BEC = 4.388$$

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	2457.73	0.0010	P	2.9
2	☐	25.000	24.145	16419.97	0.0063	P	5.9
3	☐	50.000	50.083	31420.11	0.0121	P	3.4
4	☐	125.000	131.654	78075.11	0.0301	P	5.9
5	☐	250.000	260.048	161688.64	0.0585	P	7.2
6	☐	500.000	477.768	308480.65	0.1067	P	4.3
7	☐	1000.000	1007.789	639180.32	0.2240	P	0.6
8	☐			70646.42	0.0244	P	10.1

$$y = 2.2125E-004 * x + 9.8399E-004$$

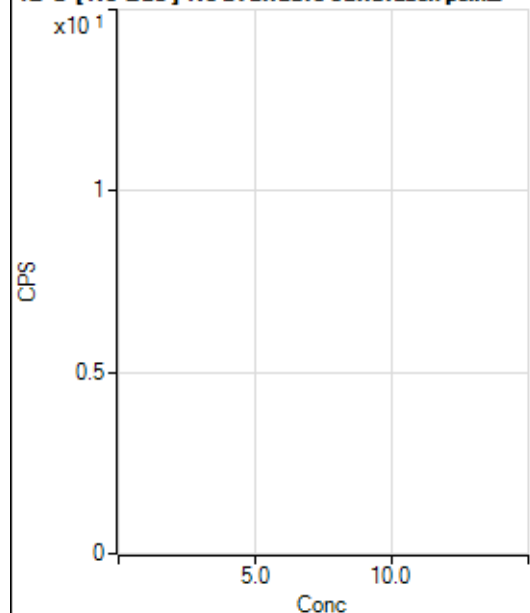
$$R = 0.9996$$

$$DL = 0.3914$$

$$BEC = 4.447$$

Weight: <None>

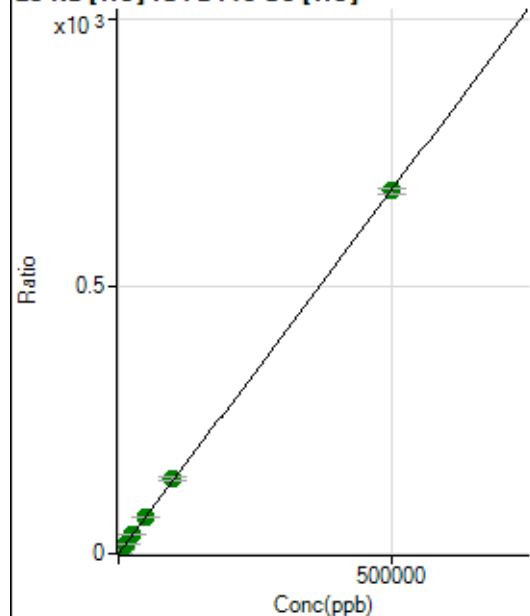
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			4075403.74		A	0.9
2	☐			4302087.12		A	0.9
3	☐			5049819.86		A	2.6
4	☐			5194214.05		A	2.4
5	☐			5455514.27		A	3.9
6	☐			5885492.23		A	1.1
7	☐			6793806.40		A	4.4
8	☐			5329403.20		A	1.6

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40426.04		P	2.0
2	☐			40478.87		P	2.7
3	☐			50384.33		P	1.7
4	☐			54423.79		P	0.9
5	☐			56043.72		P	1.6
6	☐			58572.98		P	1.4
7	☐			71254.26		P	1.8
8	☐			56389.34		P	1.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12892.10	0.0703	P	1.6
2	☐	500.000	485.288	129962.97	0.7311	P	4.6
3	☐	5000.000	5294.267	1326829.32	7.2797	A	3.2
4	☐	12500.000	13766.723	3382402.25	18.8171	A	2.9
5	☐	25000.000	27089.664	6554013.47	36.9596	A	1.6
6	☐	50000.000	50918.017	12204006.69	69.4078	A	0.8
7	☐	100000.00	103375.89	24720584.41	140.8423	A	3.4
8	☐	500000.00	499093.94	119855177.6	679.7110	A	1.9

$$y = 0.0014 * x + 0.0703$$

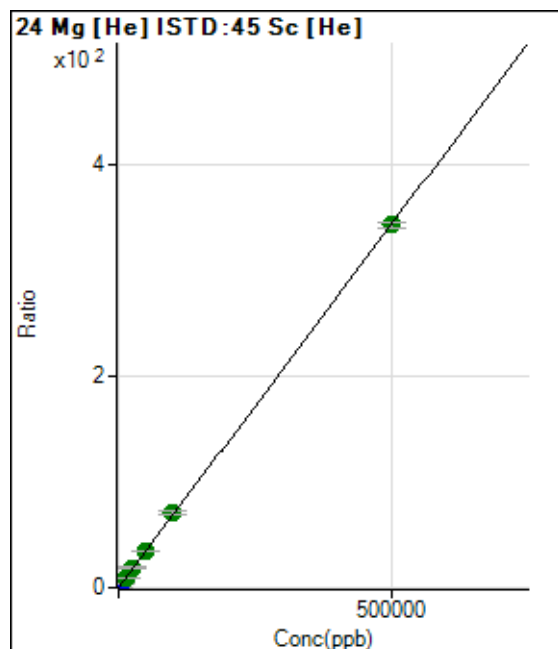
$$R = 1.0000$$

$$DL = 2.466$$

$$BEC = 51.6$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	622.25	0.0034	P	15.6
2	☐	500.000	494.028	60799.81	0.3423	P	7.0
3	☐	5000.000	5319.207	665609.86	3.6522	P	3.4
4	☐	12500.000	14139.701	1744015.40	9.7028	A	3.7
5	☐	25000.000	27754.197	3376867.89	19.0419	A	0.9
6	☐	50000.000	50847.879	6132507.73	34.8834	A	2.7
7	☐	100000.00	103055.23	12407297.33	70.6959	A	3.9
8	☐	500000.00	499122.27	60375824.96	342.3851	A	1.6

$$y = 6.8597\text{E-}004 * x + 0.0034$$

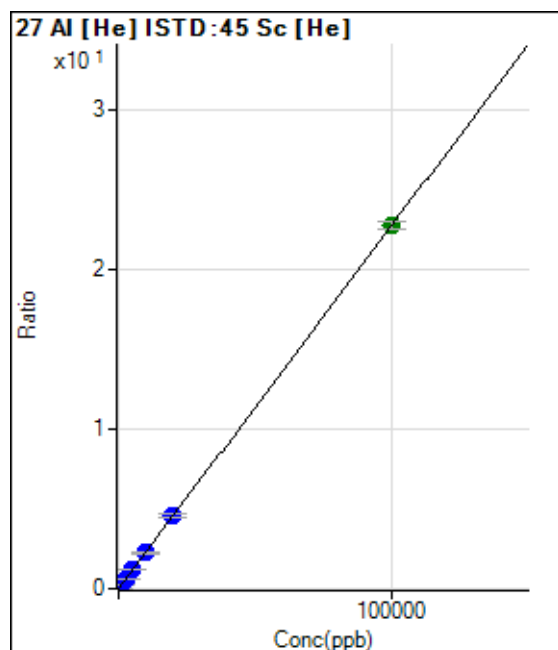
R = 1.0000

DL = 2.316

BEC = 4.948

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	104.16	0.0006	P	13.6
2	☐	20.000	19.862	904.09	0.0051	P	4.4
3	☐	1000.000	1021.303	42430.30	0.2328	P	3.6
4	☐	2500.000	2700.770	110515.43	0.6147	P	0.8
5	☐	5000.000	5377.584	216964.68	1.2235	P	0.8
6	☐	10000.000	9882.715	395209.31	2.2479	P	2.1
7	☐	20000.000	20039.004	799788.38	4.5575	P	4.2
8	☐	100000.00	99979.816	4009125.38	22.7365	A	2.1

$$y = 2.2740\text{E-}004 * x + 5.6796\text{E-}004$$

R = 1.0000

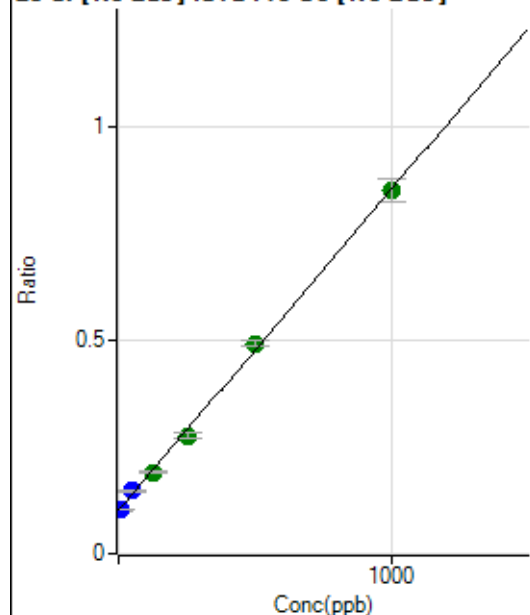
DL = 1.021

BEC = 2.498

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	609162.69	0.1015	P	5.7
2	☐	10.000	2.768	648677.79	0.1036	P	0.7
3	☐	50.000	60.612	927687.74	0.1471	P	3.5
4	☐	125.000	118.356	1196780.92	0.1906	A	1.1
5	☐	250.000	232.985	1758732.20	0.2768	A	4.7
6	☐	500.000	520.476	3131478.61	0.4932	A	3.5
7	☐	1000.000	994.388	5509296.56	0.8499	A	6.3
8	☐			1094202.36	0.1739	A	3.1

$$y = 7.5260\text{E-}004 * x + 0.1015$$

$$R = 0.9994$$

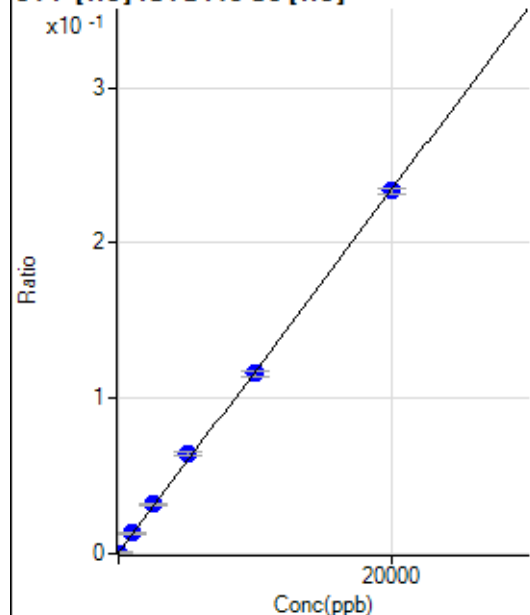
$$DL = 22.96$$

$$BEC = 134.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-4.011	94.45	0.0005	P	26.7
2	☐	0.000	4.011	108.34	0.0006	P	11.9
3	☐	1000.000	1067.885	2372.48	0.0130	P	13.7
4	☐	2500.000	2684.706	5740.17	0.0319	P	4.3
5	☐	5000.000	5415.367	11324.17	0.0638	P	3.9
6	☐	10000.000	9868.167	20373.07	0.1159	P	3.4
7	☐	20000.000	19935.592	41000.51	0.2335	P	1.7
8	☐			127.78	0.0007	P	32.0

$$y = 1.1684\text{E-}005 * x + 5.6152\text{E-}004$$

$$R = 0.9997$$

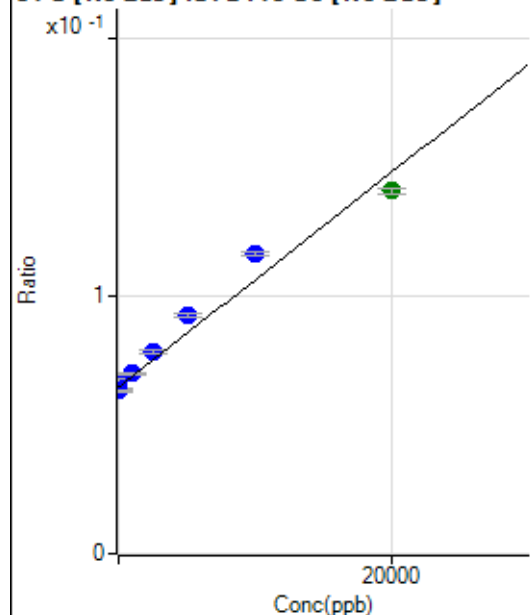
$$DL = 26.94$$

$$BEC = 48.06$$

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	293.878	395972.29	0.0660	P	5.5
2	☐	0.000	-293.878	397765.12	0.0635	P	1.2
3	☐	1000.000	1275.763	441923.87	0.0701	P	0.8
4	☐	2500.000	3359.473	494650.85	0.0788	P	2.0
5	☐	5000.000	6663.924	588340.12	0.0926	P	1.2
6	☐	10000.000	12424.138	740373.21	0.1166	P	1.7
7	☐	20000.000	18250.728	914190.99	0.1410	A	1.9
8	☐			366386.12	0.0582	P	3.1

$$y = 4.1783E-006 * x + 0.0647$$

$$R = 0.9831$$

$$DL = 1592$$

$$BEC = 1.549E+04$$

Weight: <None>

Min Conc: 0

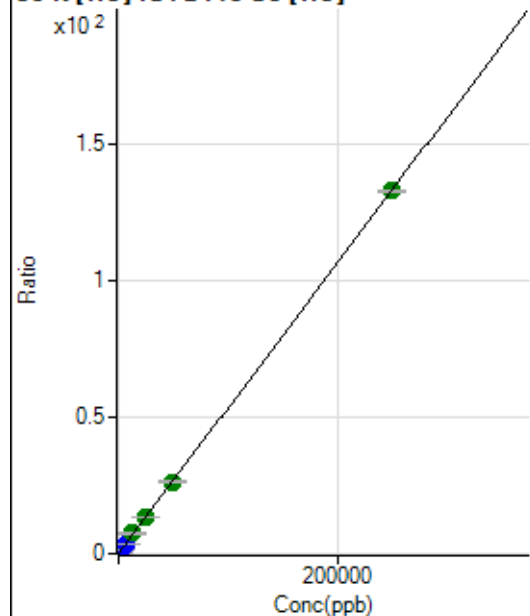
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			516528.87		P	1.1
2	☐			423130.35		P	1.9
3	☐			407468.91		P	0.3
4	☐			398936.61		P	1.0
5	☐			371664.42		P	0.8
6	☐			349900.45		P	1.2
7	☐			341935.74		P	0.2
8	☐			345497.91		P	0.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2983.73		P	7.4
2	☐			2297.47		P	7.1
3	☐			2247.45		P	3.9
4	☐			2250.24		P	3.9
5	☐			2033.54		P	0.4
6	☐			1919.62		P	2.2
7	☐			1844.62		P	6.2
8	☐			1900.18		P	4.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17647.36	0.0962	P	2.3
2	☐	500.000	484.226	62876.22	0.3538	P	5.6
3	☐	2500.000	2629.974	272519.82	1.4955	P	4.0
4	☐	6250.000	6903.419	677609.04	3.7691	P	0.6
5	☐	12500.000	13804.155	1319588.34	7.4407	A	1.2
6	☐	25000.000	25336.393	2386750.51	13.5764	A	2.6
7	☐	50000.000	49456.541	4634088.43	26.4094	A	4.6
8	☐	250000.00	249992.24	23473188.03	133.1040	A	0.4

$$y = 5.3205E-004 * x + 0.0962$$

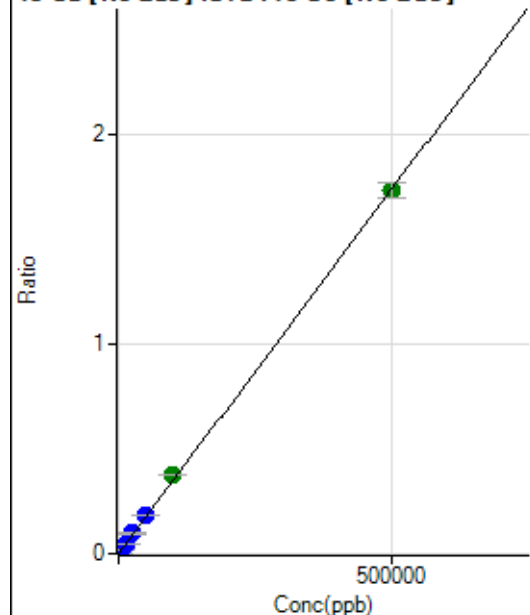
$$R = 1.0000$$

$$DL = 12.34$$

$$BEC = 180.8$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	280.80	0.0000	P	3.5
2	☐	500.000	467.200	10477.52	0.0017	P	1.1
3	☐	5000.000	5327.340	117239.72	0.0186	P	1.3
4	☐	12500.000	14068.756	307755.63	0.0490	P	2.2
5	☐	25000.000	27902.506	617420.00	0.0972	P	2.0
6	☐	50000.000	52304.806	1155875.92	0.1821	P	0.7
7	☐	100000.00	107774.91	2432785.62	0.3752	A	0.6
8	☐	500000.00	498026.95	10901487.54	1.7334	A	4.3

$$y = 3.4804\text{E-}006 * x + 4.6736\text{E-}005$$

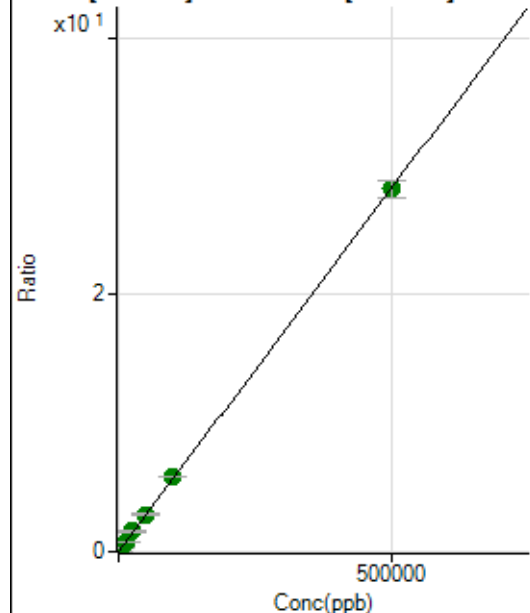
$$R = 0.9999$$

$$DL = 1.395$$

$$BEC = 13.43$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	32292.70	0.0054	P	5.4
2	☐	500.000	462.400	197457.72	0.0315	P	1.5
3	☐	5000.000	5338.770	1938078.16	0.3073	A	0.8
4	☐	12500.000	14005.469	5007381.12	0.7973	A	0.9
5	☐	25000.000	27770.075	10014532.05	1.5757	A	2.8
6	☐	50000.000	51219.943	18417059.14	2.9017	A	2.1
7	☐	100000.00	102855.29	37752595.57	5.8214	A	1.6
8	☐	500000.00	499127.45	177502349.1	28.2290	A	4.9

$$y = 5.6546\text{E-}005 * x + 0.0054$$

$$R = 1.0000$$

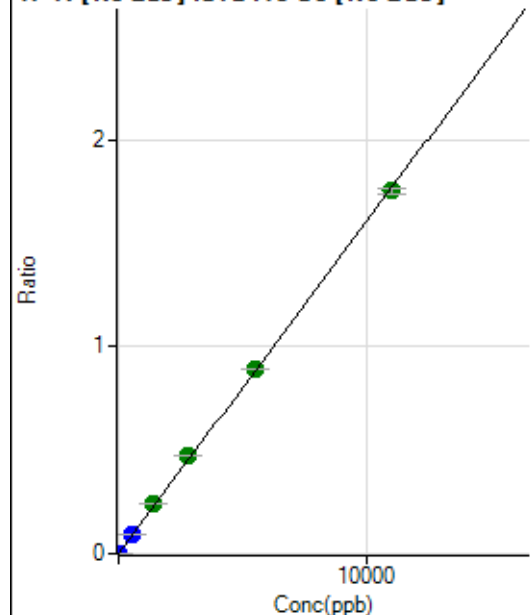
$$DL = 15.51$$

$$BEC = 95.13$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	230.56	0.0000	P	25.6
2	☐	5.000	5.072	5342.81	0.0009	P	2.4
3	☐	550.000	572.063	580038.74	0.0920	P	2.0
4	☐	1375.000	1518.194	1532532.76	0.2440	A	1.5
5	☐	2750.000	2952.936	3015903.48	0.4746	A	1.3
6	☐	5500.000	5538.793	5650640.06	0.8901	A	0.1
7	☐	11000.000	10910.867	11370902.34	1.7534	A	1.3
8	☐			7485.78	0.0012	P	10.0

$$y = 1.6070\text{E-}004 * x + 3.7965\text{E-}005$$

$$R = 0.9997$$

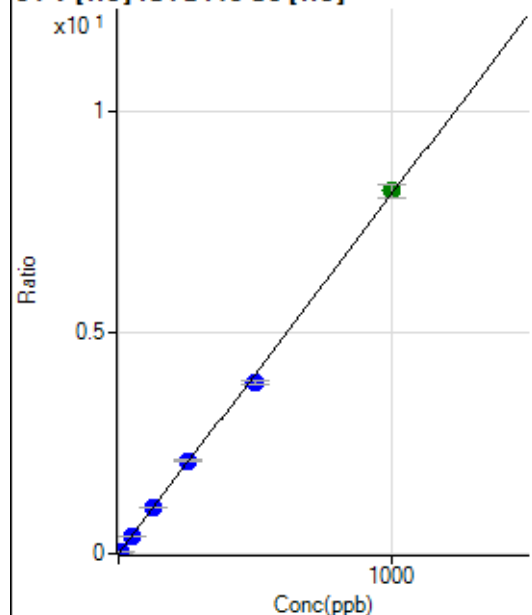
$$DL = 0.1813$$

$$BEC = 0.2362$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0001	P	46.6
2	☐	5.000	4.879	7056.25	0.0397	P	7.2
3	☐	50.000	49.582	73485.31	0.4032	P	2.9
4	☐	125.000	129.802	189723.29	1.0554	P	1.5
5	☐	250.000	258.500	372692.67	2.1017	P	1.6
6	☐	500.000	475.652	679854.22	3.8672	P	2.7
7	☐	1000.000	1009.471	1440343.31	8.2073	A	4.0
8	☐			1453.44	0.0083	P	60.9

$$y = 0.0081 * x + 6.0728\text{E-}005$$

$$R = 0.9995$$

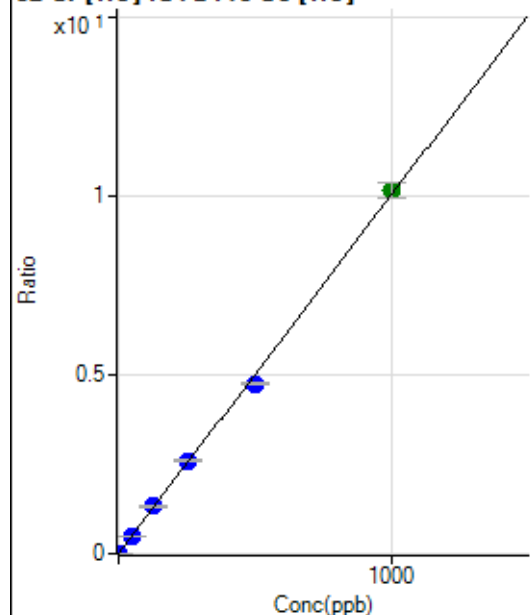
$$DL = 0.01045$$

$$BEC = 0.007469$$

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	551.13	0.0030	P	3.0
2	☐	2.000	1.889	3898.34	0.0219	P	4.1
3	☐	50.000	49.511	90954.85	0.4991	P	3.4
4	☐	125.000	130.993	236471.99	1.3154	P	1.6
5	☐	250.000	258.184	459242.39	2.5898	P	1.3
6	☐	500.000	473.147	833984.85	4.7435	P	1.7
7	☐	1000.000	1010.656	1777487.84	10.1289	A	4.2
8	☐			4638.62	0.0263	P	25.0

$$y = 0.0100 * x + 0.0030$$

$$R = 0.9994$$

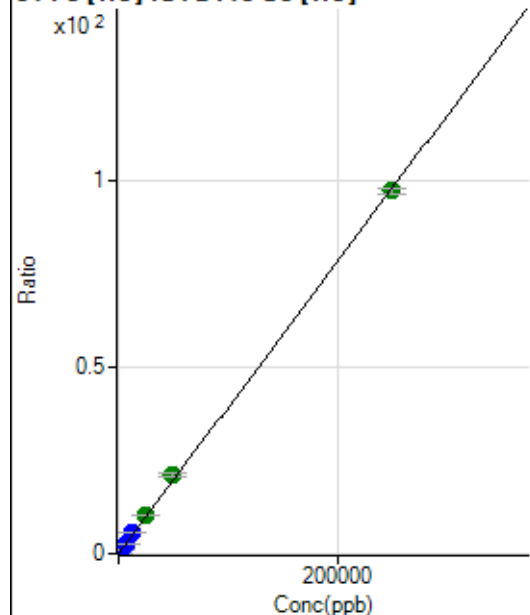
$$DL = 0.02737$$

$$BEC = 0.2998$$

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	437.05	0.0024	P	20.0
2	☐	50.000	49.894	3889.49	0.0219	P	10.4
3	☐	2500.000	2706.968	193627.80	1.0622	P	2.3
4	☐	6250.000	7063.333	497571.13	2.7678	P	1.0
5	☐	12500.000	14076.627	977742.72	5.5135	P	1.6
6	☐	25000.000	26671.945	1836387.74	10.4447	A	2.3
7	☐	50000.000	54552.340	3748274.39	21.3602	A	4.4
8	☐	250000.00	248821.10	17178878.97	97.4185	A	1.3

$$y = 3.9151E-004 * x + 0.0024$$

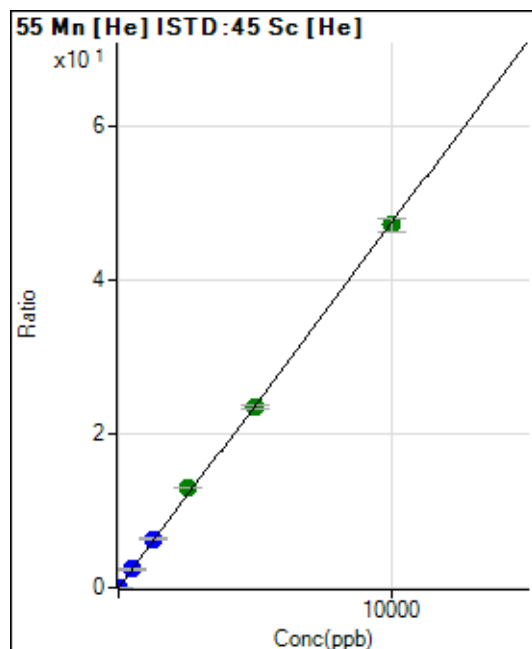
$$R = 0.9998$$

$$DL = 3.651$$

$$BEC = 6.091$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	56.67	0.0003	P	6.5
2	☐	1.000	1.005	901.15	0.0051	P	4.6
3	☐	500.000	503.428	434473.70	2.3839	P	3.4
4	☐	1250.000	1337.181	1138192.73	6.3314	P	1.4
5	☐	2500.000	2731.240	2293426.83	12.9318	A	0.9
6	☐	5000.000	4970.623	4137668.69	23.5346	A	1.9
7	☐	10000.000	9945.809	8265278.77	47.0905	A	3.4
8	☐			10789.41	0.0614	P	46.8

$$y = 0.0047 * x + 3.0893E-004$$

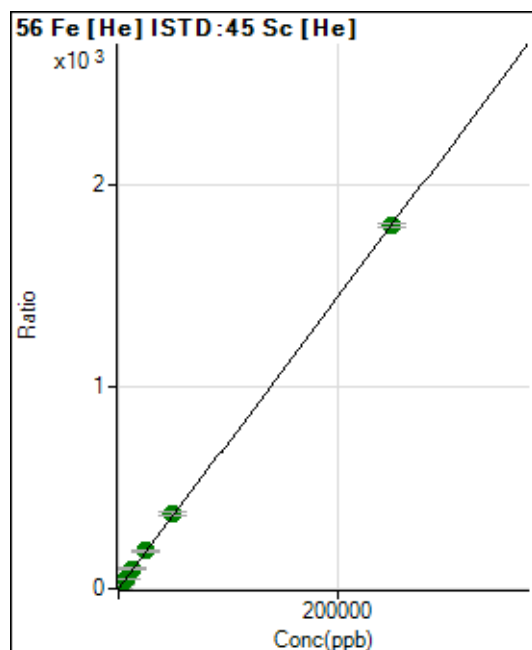
$$R = 0.9997$$

$$DL = 0.01265$$

$$BEC = 0.06525$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2902.20	0.0158	P	3.3
2	☐	50.000	49.958	66791.26	0.3759	P	6.0
3	☐	2500.000	2711.016	3565247.50	19.5553	A	1.7
4	☐	6250.000	7105.762	9209855.30	51.2302	A	1.3
5	☐	12500.000	13871.104	17731357.80	99.9911	A	1.3
6	☐	25000.000	25889.892	32808330.37	186.6159	A	2.6
7	☐	50000.000	51525.461	65192610.25	371.3829	A	2.9
8	☐	250000.00	249513.85	317133992.2	1,798.374	A	1.0

$$y = 0.0072 * x + 0.0158$$

$$R = 1.0000$$

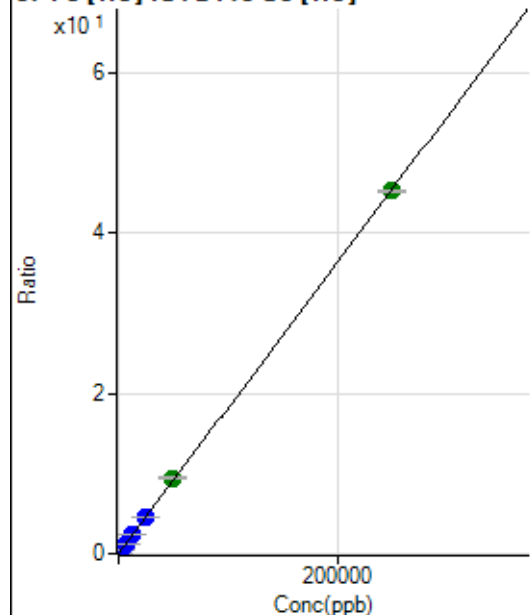
$$DL = 0.2169$$

$$BEC = 2.194$$

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	224.08	0.0012	P	13.3
2	☐	50.000	48.627	1783.48	0.0100	P	6.0
3	☐	2500.000	2613.118	86548.33	0.4750	P	4.5
4	☐	6250.000	6820.336	222497.21	1.2378	P	2.4
5	☐	12500.000	13528.986	435204.18	2.4540	P	0.3
6	☐	25000.000	25063.461	799087.66	4.5452	P	2.2
7	☐	50000.000	52118.375	1658818.22	9.4503	A	3.1
8	☐	250000.00	249503.14	7977465.98	45.2363	A	0.7

$$y = 1.8130E-004 * x + 0.0012$$

R = 1.0000

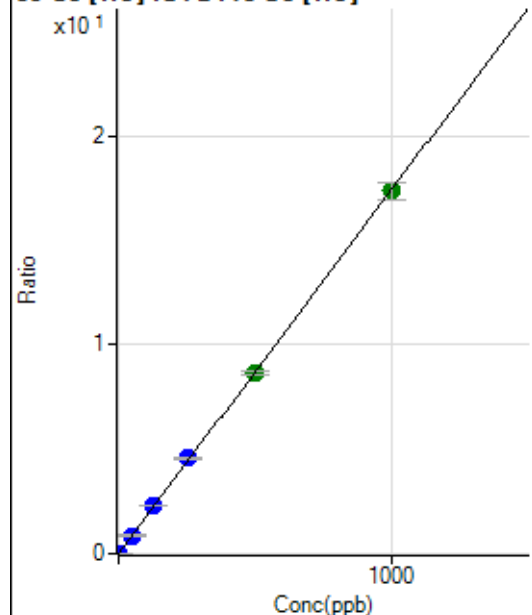
DL = 2.691

BEC = 6.731

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	68.89	0.0004	P	12.7
2	☐	1.000	0.984	3117.04	0.0175	P	4.7
3	☐	50.000	50.147	159430.23	0.8748	P	3.6
4	☐	125.000	132.153	414316.00	2.3047	P	1.7
5	☐	250.000	262.615	812131.59	4.5796	P	0.9
6	☐	500.000	497.776	1526078.22	8.6802	A	2.0
7	☐	1000.000	997.057	3050484.71	17.3862	A	5.0
8	☐			6278.22	0.0357	P	30.8

$$y = 0.0174 * x + 3.7562E-004$$

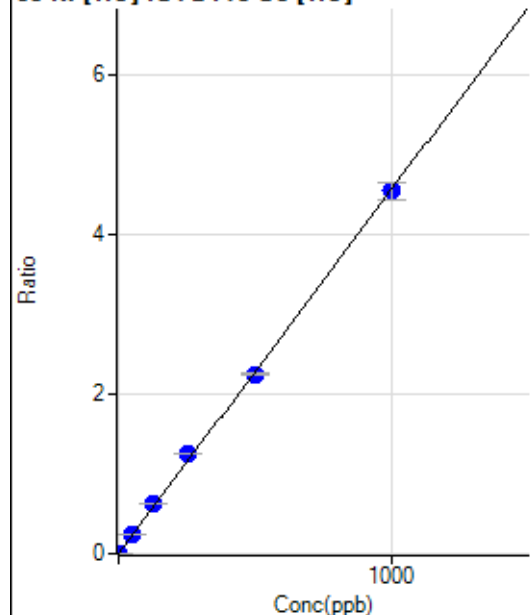
R = 0.9999

DL = 0.008194

BEC = 0.02154

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	106.67	0.0006	P	24.2
2	☐	1.000	0.992	907.82	0.0051	P	7.9
3	☐	50.000	51.312	42766.36	0.2346	P	2.0
4	☐	125.000	138.227	113433.80	0.6310	P	0.5
5	☐	250.000	273.538	221319.40	1.2480	P	1.1
6	☐	500.000	492.770	395207.36	2.2478	P	1.6
7	☐	1000.000	996.011	797140.63	4.5428	P	4.5
8	☐			1744.58	0.0099	P	30.7

$$y = 0.0046 * x + 5.8124E-004$$

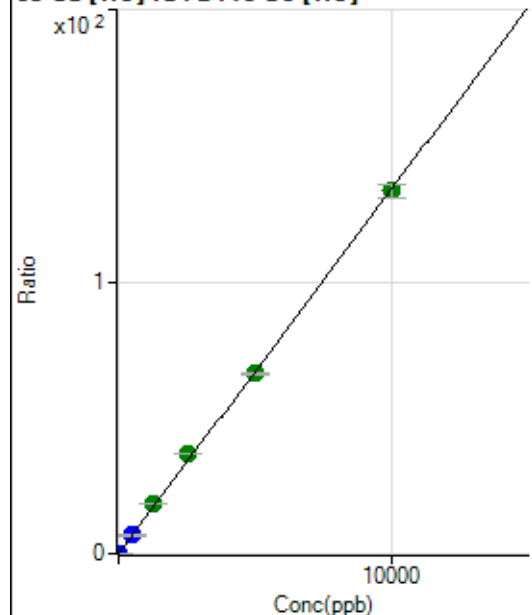
$$R = 0.9996$$

$$DL = 0.09267$$

$$BEC = 0.1275$$

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	666.69	0.0036	P	0.3
2	☐	2.000	2.019	5454.43	0.0307	P	6.7
3	☐	500.000	508.123	1242154.30	6.8155	P	3.3
4	☐	1250.000	1380.970	3328684.64	18.5167	A	1.8
5	☐	2500.000	2737.520	6508709.63	36.7025	A	1.4
6	☐	5000.000	4936.709	11636484.13	66.1845	A	1.7
7	☐	10000.000	9955.488	23423892.71	133.4656	A	4.0
8	☐			21590.25	0.1229	P	64.2

$$y = 0.0134 * x + 0.0036$$

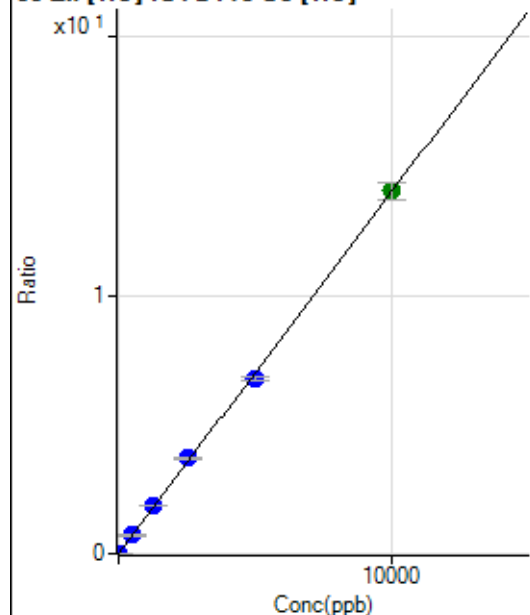
$$R = 0.9996$$

$$DL = 0.002541$$

$$BEC = 0.271$$

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	210.00	0.0011	P	5.7
2	☐	2.000	2.130	733.36	0.0041	P	5.1
3	☐	500.000	508.097	129863.97	0.7125	P	3.1
4	☐	1250.000	1335.784	336396.74	1.8713	P	1.3
5	☐	2500.000	2641.013	655900.98	3.6986	P	0.8
6	☐	5000.000	4843.352	1192380.37	6.7819	P	1.5
7	☐	10000.000	10031.943	2464738.45	14.0459	A	4.5
8	☐			5949.13	0.0338	P	24.4

$$y = 0.0014 * x + 0.0011$$

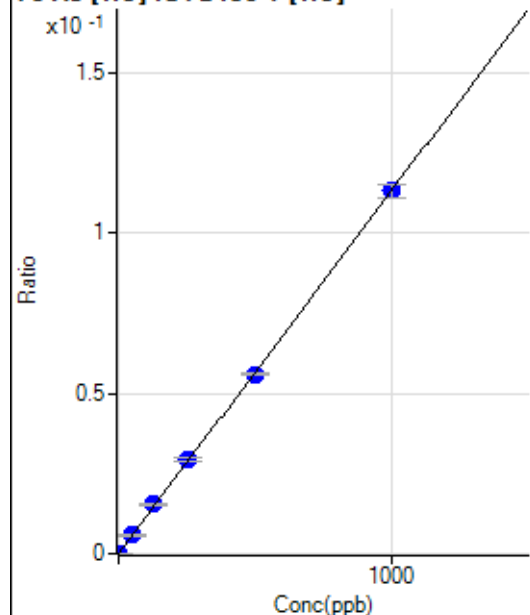
$$R = 0.9997$$

$$DL = 0.139$$

$$BEC = 0.8176$$

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	9.00	0.0000	P	23.2
2	☐	1.000	0.979	159.35	0.0001	P	3.6
3	☐	50.000	51.284	8144.17	0.0058	P	5.2
4	☐	125.000	135.437	20956.92	0.0153	P	1.4
5	☐	250.000	258.790	41324.86	0.0293	P	2.8
6	☐	500.000	493.520	75261.98	0.0558	P	1.3
7	☐	1000.000	999.674	152414.29	0.1131	P	3.4
8	☐			162.35	0.0001	P	59.3

$$y = 1.1313E-004 * x + 6.4687E-006$$

$$R = 0.9999$$

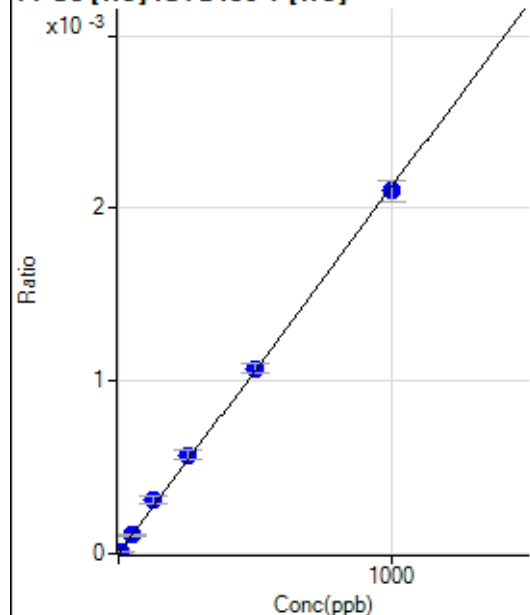
$$DL = 0.03985$$

$$BEC = 0.05718$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	5.107	15.55	0.0000	P	50.9
3	☐	50.000	49.794	148.89	0.0001	P	16.9
4	☐	125.000	145.524	423.35	0.0003	P	15.5
5	☐	250.000	269.564	807.81	0.0006	P	11.3
6	☐	500.000	505.725	1447.87	0.0011	P	4.9
7	☐	1000.000	989.691	2831.42	0.0021	P	5.5
8	☐			6.67	0.0000	P	133.4

$$y = 2.1228\text{E-}006 * x + 8.1341\text{E-}007$$

$$R = 0.9996$$

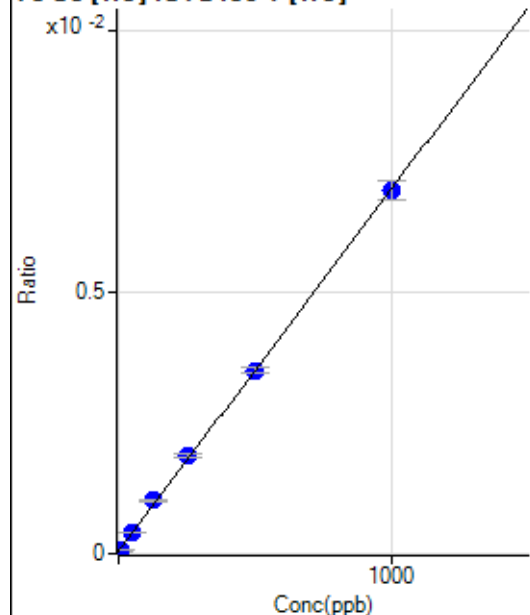
$$DL = 1.991$$

$$BEC = 0.3832$$

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	60.01	0.0000	P	18.3
2	☐	5.000	4.028	97.01	0.0001	P	8.8
3	☐	50.000	52.211	567.40	0.0004	P	4.8
4	☐	125.000	140.213	1385.88	0.0010	P	3.1
5	☐	250.000	265.009	2648.86	0.0019	P	4.7
6	☐	500.000	499.255	4715.60	0.0035	P	3.4
7	☐	1000.000	994.613	9332.37	0.0069	P	5.5
8	☐			62.68	0.0000	P	15.0

$$y = 6.9223\text{E-}006 * x + 4.3208\text{E-}005$$

$$R = 0.9998$$

$$DL = 3.42$$

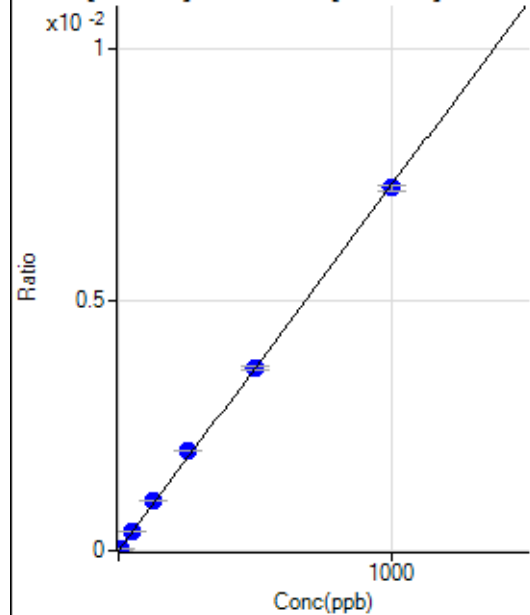
$$BEC = 6.242$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15117.16		P	1.4
2	☐			15143.80		P	1.2
3	☐			15524.64		P	1.0
4	☐			15380.98		P	1.1
5	☐			15260.76		P	4.8
6	☐			14983.45		P	1.1
7	☐			14385.59		P	6.0
8	☐			15244.01		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-59.60	0.0000	P	-230.
2	☐	5.000	6.311	528.10	0.0000	P	19.9
3	☐	50.000	52.310	4963.78	0.0004	P	1.7
4	☐	125.000	137.865	13146.12	0.0010	P	1.9
5	☐	250.000	273.999	26323.33	0.0020	P	1.0
6	☐	500.000	499.272	49200.76	0.0036	P	2.0
7	☐	1000.000	992.634	99194.04	0.0072	P	1.7
8	☐			195.57	0.0000	P	104.5

$$y = 7.2951E-006 * x - 4.9929E-006$$

$$R = 0.9996$$

$$DL = 4.735$$

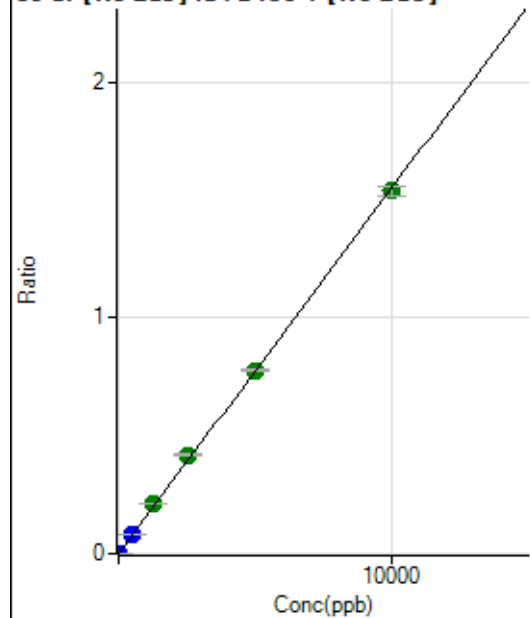
$$BEC = -0.6844$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3028.14		P	2.8
2	☐			3074.81		P	3.2
3	☐			3280.42		P	3.1
4	☐			3141.49		P	3.0
5	☐			3089.25		P	5.0
6	☐			3211.51		P	4.1
7	☐			3170.40		P	4.1
8	☐			3022.58		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4853.73	0.0004	P	4.7
2	☐	1.000	0.915	6868.51	0.0005	P	3.1
3	☐	500.000	511.293	1048362.27	0.0796	P	2.2
4	☐	1250.000	1368.278	2787702.51	0.2123	A	3.4
5	☐	2500.000	2705.839	5536499.39	0.4194	A	0.7
6	☐	5000.000	5004.515	10488885.13	0.7753	A	1.2
7	☐	10000.000	9930.933	21081565.75	1.5381	A	2.5
8	☐			29677.32	0.0022	P	2.5

$$y = 1.5484E-004 * x + 3.9246E-004$$

$$R = 0.9997$$

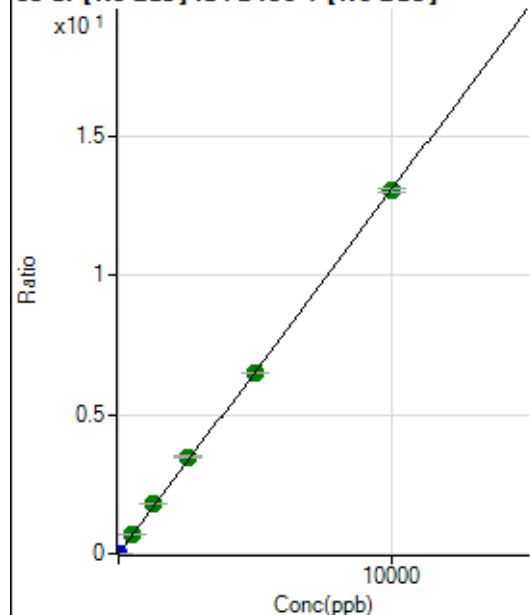
$$DL = 0.361$$

$$BEC = 2.535$$

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	330.57	0.0000	P	10.1
2	☐	1.000	0.976	16732.73	0.0013	P	2.8
3	☐	500.000	509.419	8770866.60	0.6657	A	2.9
4	☐	1250.000	1365.677	23446957.99	1.7847	A	1.1
5	☐	2500.000	2664.679	45971671.17	3.4822	A	0.8
6	☐	5000.000	4951.490	87537935.99	6.4705	A	0.2
7	☐	10000.000	9968.154	178608631.7	13.0261	A	1.2
8	☐			215323.61	0.0160	P	1.0

$$y = 0.0013 * x + 2.6710E-005$$

$$R = 0.9998$$

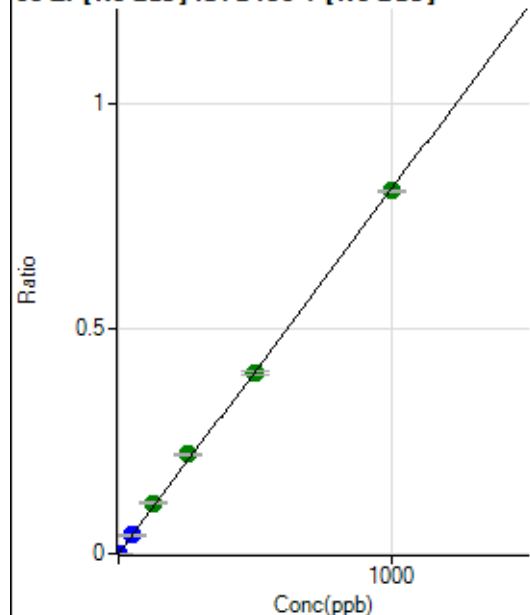
$$DL = 0.006198$$

$$BEC = 0.02044$$

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	716.70	0.0001	P	13.8
2	☐	1.000	0.918	10329.10	0.0008	P	3.7
3	☐	50.000	50.264	538481.86	0.0409	P	2.0
4	☐	125.000	138.828	1481286.59	0.1128	A	3.2
5	☐	250.000	272.428	2920945.36	0.2212	A	0.7
6	☐	500.000	495.658	5444427.73	0.4025	A	1.6
7	☐	1000.000	994.823	11075278.55	0.8078	A	0.7
8	☐			11263.30	0.0008	P	6.6

$$y = 8.1190E-004 * x + 5.8036E-005$$

$$R = 0.9996$$

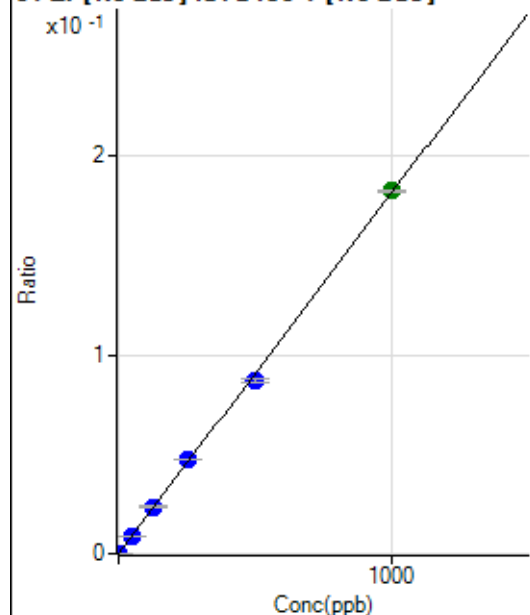
$$DL = 0.02964$$

$$BEC = 0.07148$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.11	0.0000	P	25.3
2	☐	1.000	0.914	2244.70	0.0002	P	7.5
3	☐	50.000	49.743	118830.64	0.0090	P	1.7
4	☐	125.000	130.368	310222.25	0.0236	P	3.8
5	☐	250.000	262.871	628679.10	0.0476	P	0.3
6	☐	500.000	479.022	1173765.33	0.0868	P	2.0
7	☐	1000.000	1006.613	2499619.57	0.1823	A	0.5
8	☐			2419.72	0.0002	P	5.4

$$y = 1.8112\text{E-}004 * x + 9.0011\text{E-}006$$

$$R = 0.9996$$

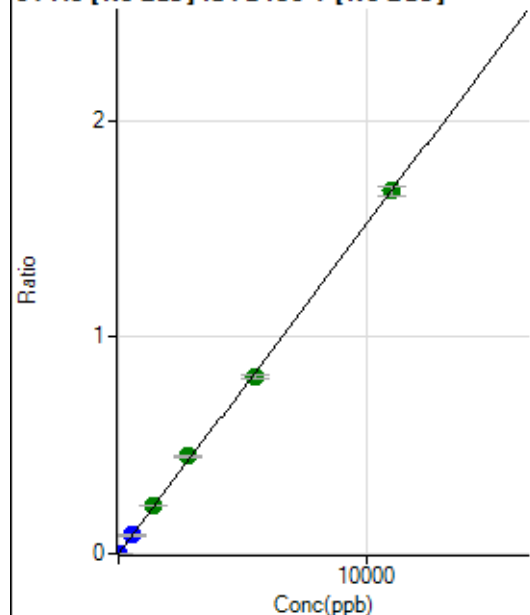
$$DL = 0.03779$$

$$BEC = 0.0497$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	258.34	0.0000	P	3.5
2	☐	5.000	5.893	11794.28	0.0009	P	3.0
3	☐	550.000	557.758	1118496.19	0.0849	P	2.5
4	☐	1375.000	1452.532	2903156.44	0.2210	A	3.2
5	☐	2750.000	2945.403	5917379.26	0.4482	A	0.3
6	☐	5500.000	5385.832	11086260.75	0.8195	A	1.9
7	☐	11000.000	10998.153	22937671.69	1.6735	A	2.5
8	☐			18176.87	0.0013	P	1.1

$$y = 1.5216\text{E-}004 * x + 2.0863\text{E-}005$$

$$R = 0.9997$$

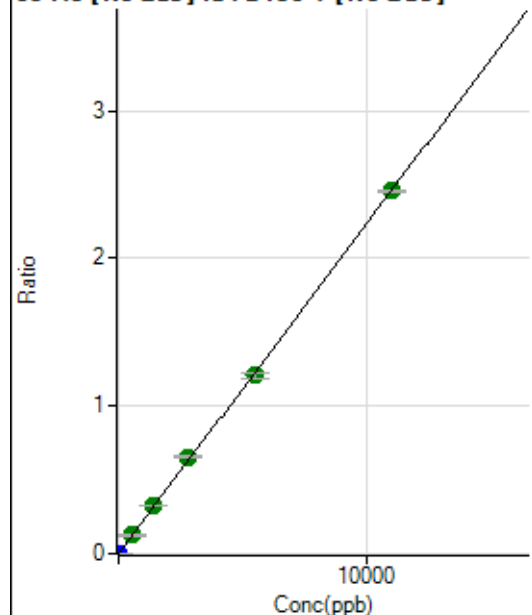
$$DL = 0.01448$$

$$BEC = 0.1371$$

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	88.89	0.0000	P	9.3
2	☐	5.000	4.961	14346.65	0.0011	P	2.1
3	☐	550.000	554.163	1632100.45	0.1239	A	2.8
4	☐	1375.000	1461.384	4290833.91	0.3267	A	2.9
5	☐	2750.000	2938.612	8671827.97	0.6568	A	0.8
6	☐	5500.000	5398.614	16322088.04	1.2067	A	2.7
7	☐	11000.000	10992.534	33685898.67	2.4570	A	0.8
8	☐			23792.03	0.0018	P	2.8

$$y = 2.2352\text{E-}004 * x + 7.1977\text{E-}006$$

$$R = 0.9998$$

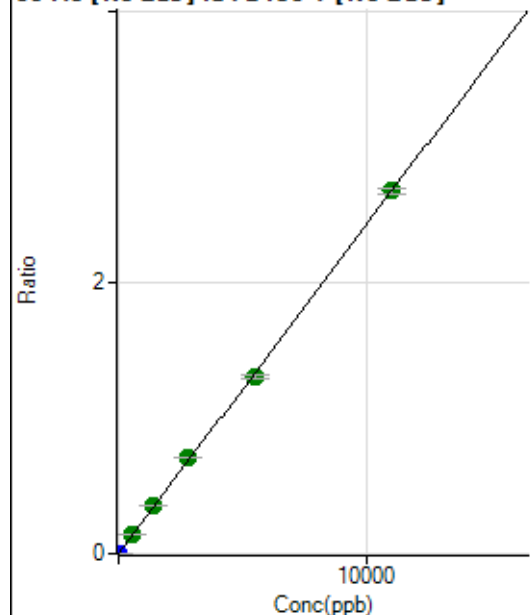
$$DL = 0.00897$$

$$BEC = 0.0322$$

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	222.23	0.0000	P	17.9
2	☐	5.000	4.852	15403.51	0.0012	P	1.4
3	☐	550.000	565.198	1812003.23	0.1375	A	1.8
4	☐	1375.000	1460.276	4666735.43	0.3552	A	1.8
5	☐	2750.000	2938.126	9435926.86	0.7147	A	0.4
6	☐	5500.000	5359.009	17632842.41	1.3036	A	2.2
7	☐	11000.000	11012.045	36720002.56	2.6786	A	1.3
8	☐			31672.73	0.0024	P	5.4

$$y = 2.4324\text{E-}004 * x + 1.7930\text{E-}005$$

$$R = 0.9997$$

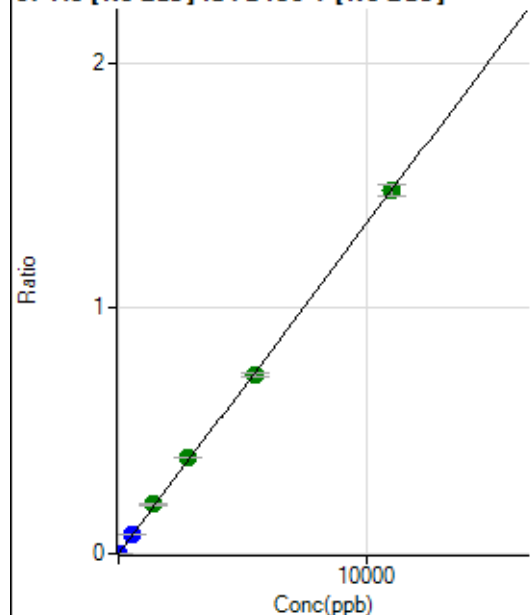
$$DL = 0.03952$$

$$BEC = 0.07371$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	52.78	0.0000	P	42.7
2	☐	5.000	4.602	8019.22	0.0006	P	2.3
3	☐	550.000	557.454	988892.14	0.0750	P	1.3
4	☐	1375.000	1489.083	2633041.23	0.2005	A	2.2
5	☐	2750.000	2914.525	5179923.47	0.3923	A	1.0
6	☐	5500.000	5418.166	9866267.24	0.7293	A	1.4
7	☐	11000.000	10985.153	20266106.88	1.4787	A	3.0
8	☐			14642.20	0.0011	P	2.6

$$y = 1.3461\text{E-}004 * x + 4.2907\text{E-}006$$

$$R = 0.9998$$

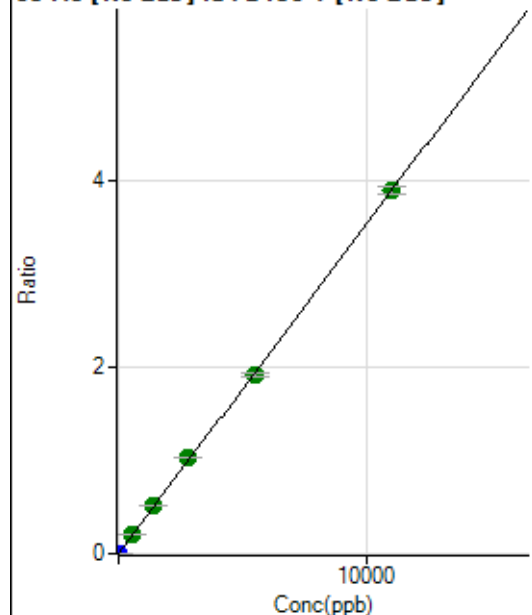
$$DL = 0.04081$$

$$BEC = 0.03187$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	138.89	0.0000	P	21.0
2	☐	5.000	4.986	22874.92	0.0018	P	2.1
3	☐	550.000	560.708	2620000.08	0.1988	A	1.9
4	☐	1375.000	1460.185	6800592.51	0.5178	A	2.7
5	☐	2750.000	2906.689	13607509.33	1.0306	A	1.4
6	☐	5500.000	5405.503	25925383.22	1.9167	A	2.6
7	☐	11000.000	10996.893	53447583.14	3.8992	A	2.0
8	☐			36945.50	0.0027	P	2.2

$$y = 3.5457\text{E-}004 * x + 1.1274\text{E-}005$$

$$R = 0.9998$$

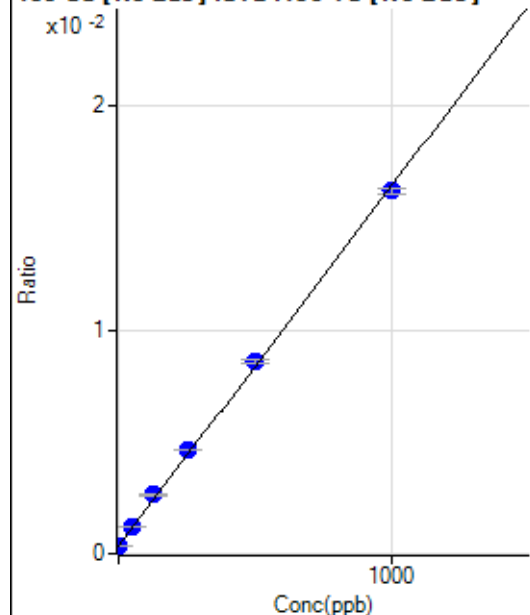
$$DL = 0.02006$$

$$BEC = 0.0318$$

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	2522.52	0.0003	P	3.7
2	☐	1.000	-0.201	2597.54	0.0003	P	8.2
3	☐	50.000	54.571	9573.02	0.0012	P	1.8
4	☐	125.000	142.342	20830.09	0.0026	P	1.2
5	☐	250.000	267.285	38064.56	0.0046	P	1.2
6	☐	500.000	513.560	70601.43	0.0086	P	2.8
7	☐	1000.000	986.503	140853.72	0.0162	P	1.6
8	☐			2842.04	0.0003	P	8.1

$$y = 1.6081\text{E-}005 * x + 3.3725\text{E-}004$$

$$R = 0.9996$$

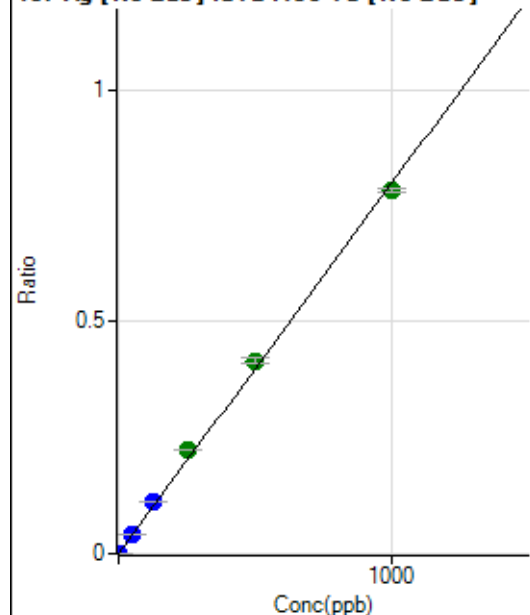
$$DL = 2.321$$

$$BEC = 20.97$$

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	113.89	0.0000	P	13.7
2	☐	1.000	1.000	6321.08	0.0008	P	3.0
3	☐	50.000	52.528	330301.71	0.0419	P	1.4
4	☐	125.000	139.736	884224.43	0.1115	P	1.4
5	☐	250.000	278.994	1827736.11	0.2226	A	0.5
6	☐	500.000	521.488	3416792.05	0.4160	A	2.8
7	☐	1000.000	980.039	6796718.03	0.7818	A	1.1
8	☐			2469.74	0.0003	P	8.1

$$y = 7.9770\text{E-}004 * x + 1.5264\text{E-}005$$

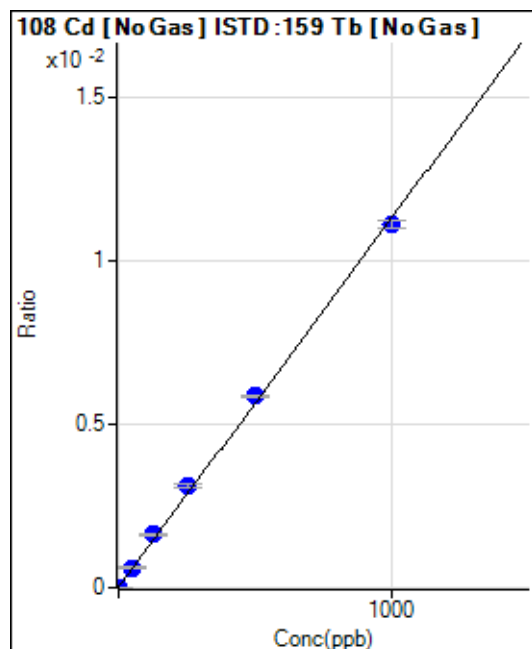
$$R = 0.9991$$

$$DL = 0.007847$$

$$BEC = 0.01914$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	27.3
2	☐	1.000	0.619	118.06	0.0000	P	5.4
3	☐	50.000	52.340	4713.37	0.0006	P	7.1
4	☐	125.000	143.480	12897.83	0.0016	P	1.6
5	☐	250.000	274.777	25508.55	0.0031	P	3.1
6	☐	500.000	518.118	48072.58	0.0059	P	1.1
7	☐	1000.000	982.320	96366.86	0.0111	P	2.3
8	☐			152.78	0.0000	P	3.8

$$y = 1.1277\text{E-}005 * x + 8.1914\text{E-}006$$

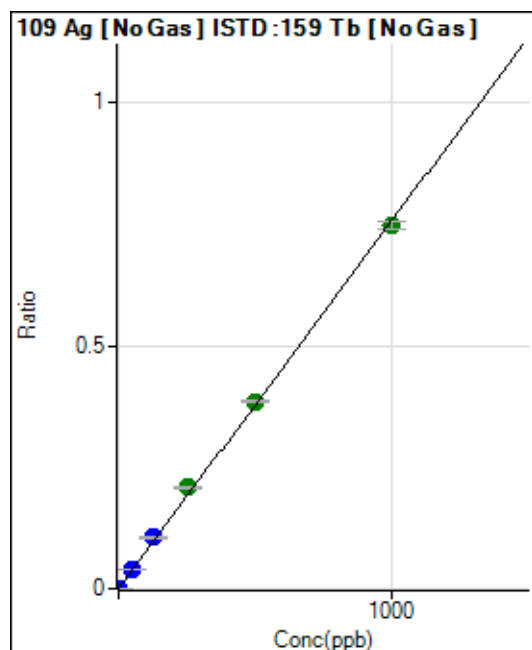
$$R = 0.9993$$

$$DL = 0.5959$$

$$BEC = 0.7264$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	16.5
2	☐	1.000	0.965	5765.25	0.0007	P	3.4
3	☐	50.000	53.092	316478.09	0.0402	P	1.7
4	☐	125.000	138.855	833045.51	0.1050	P	1.0
5	☐	250.000	274.792	1706834.87	0.2078	A	1.5
6	☐	500.000	509.692	3166814.87	0.3855	A	1.6
7	☐	1000.000	987.070	6489610.91	0.7465	A	2.3
8	☐			2189.13	0.0003	P	4.5

$$y = 7.5630\text{E-}004 * x + 1.1132\text{E-}005$$

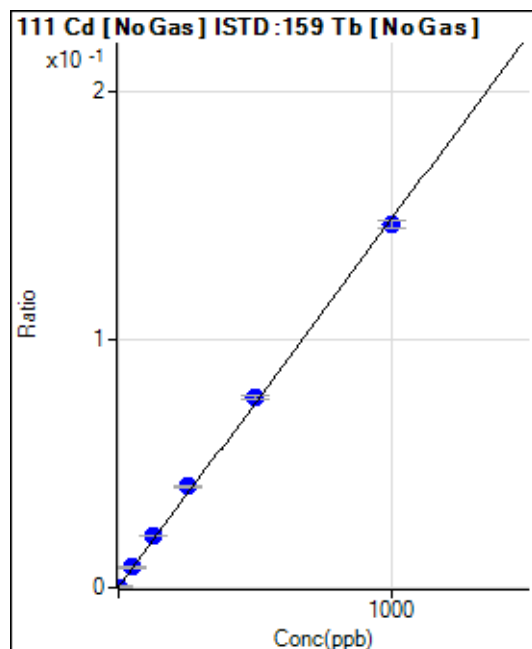
$$R = 0.9995$$

$$DL = 0.007268$$

$$BEC = 0.01472$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1767.42	0.0002	P	2.9
2	☐	1.000	0.986	2975.99	0.0004	P	7.0
3	☐	50.000	54.249	65322.76	0.0083	P	3.5
4	☐	125.000	140.762	167637.88	0.0211	P	0.9
5	☐	250.000	273.363	335203.35	0.0408	P	1.6
6	☐	500.000	515.397	630525.47	0.0768	P	2.1
7	☐	1000.000	984.278	1272580.17	0.1464	P	2.3
8	☐			2882.53	0.0003	P	8.3

$$y = 1.4847\text{E-}004 * x + 2.3626\text{E-}004$$

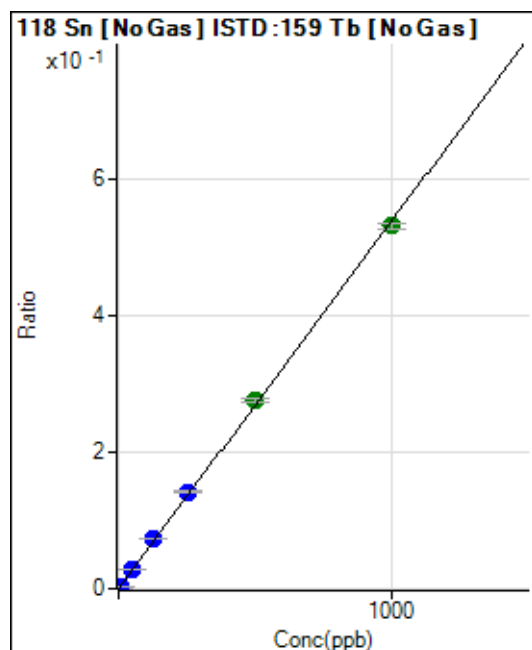
$$R = 0.9994$$

$$DL = 0.137$$

$$BEC = 1.591$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	561.13	0.0001	P	10.2
2	☐	5.000	4.873	20975.02	0.0027	P	2.4
3	☐	50.000	51.552	219090.94	0.0278	P	1.0
4	☐	125.000	135.951	580639.02	0.0732	P	0.8
5	☐	250.000	263.211	1163090.67	0.1416	P	1.7
6	☐	500.000	515.260	2277200.75	0.2772	A	2.0
7	☐	1000.000	987.621	4618457.74	0.5313	A	1.9
8	☐			3978.50	0.0005	P	5.0

$$y = 5.3787\text{E-}004 * x + 7.5106\text{E-}005$$

$$R = 0.9997$$

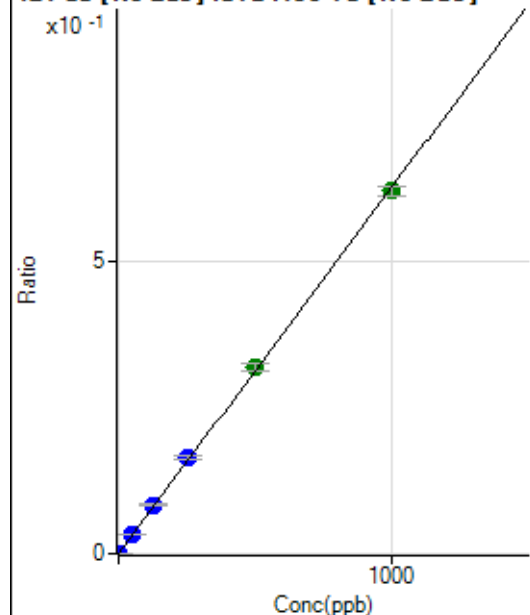
$$DL = 0.0427$$

$$BEC = 0.1396$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	58.33	0.0000	P	48.7
2	☐	2.000	1.893	9264.51	0.0012	P	2.8
3	☐	50.000	50.607	249342.84	0.0316	P	1.7
4	☐	125.000	133.384	661405.40	0.0834	P	1.1
5	☐	250.000	261.850	1344023.35	0.1637	P	2.8
6	☐	500.000	509.287	2614275.69	0.3184	A	4.1
7	☐	1000.000	991.316	5387058.32	0.6197	A	2.5
8	☐			7621.82	0.0009	P	1.8

$$y = 6.2515\text{E-}004 * x + 7.7336\text{E-}006$$

$$R = 0.9998$$

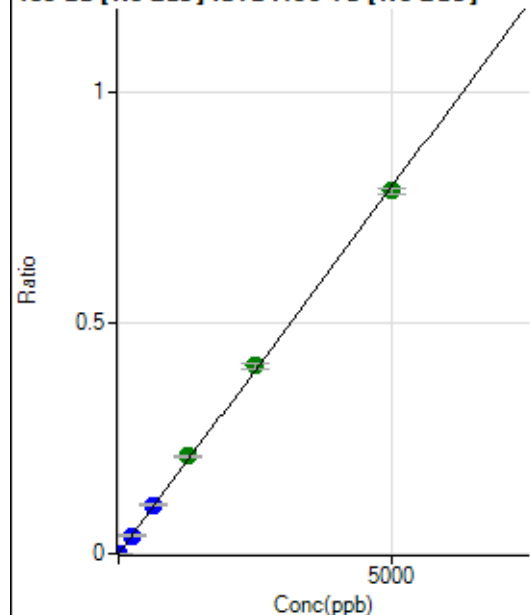
$$DL = 0.01806$$

$$BEC = 0.01237$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	36.11	0.0000	P	25.6
2	☐	10.000	9.225	11421.79	0.0015	P	3.4
3	☐	250.000	248.825	311132.65	0.0395	P	2.9
4	☐	625.000	668.033	840777.41	0.1060	P	1.8
5	☐	1250.000	1332.844	1736672.07	0.2115	A	2.1
6	☐	2500.000	2556.711	3332331.39	0.4057	A	2.6
7	☐	5000.000	4945.615	6822418.64	0.7848	A	1.9
8	☐			5932.10	0.0007	P	1.4

$$y = 1.5869\text{E-}004 * x + 4.8177\text{E-}006$$

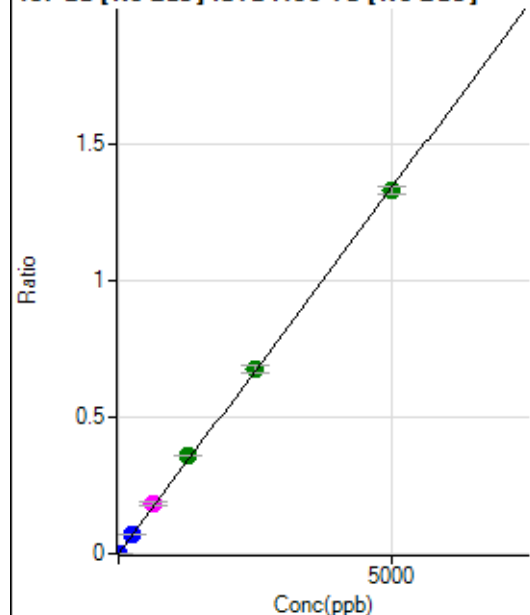
$$R = 0.9997$$

$$DL = 0.0233$$

$$BEC = 0.03036$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.67	0.0000	P	36.6
2	☐	10.000	9.510	19898.52	0.0026	P	2.0
3	☐	250.000	259.801	549395.95	0.0697	P	2.9
4	☐	625.000	679.878	1446766.60	0.1825	M	5.4
5	☐	1250.000	1344.674	2963538.37	0.3609	A	1.0
6	☐	2500.000	2519.540	5552289.53	0.6762	A	4.1
7	☐	5000.000	4959.213	11570140.36	1.3310	A	2.0
8	☐			10889.44	0.0013	P	8.0

$$y = 2.6838E-004 * x + 5.6087E-006$$

$$R = 0.9998$$

$$DL = 0.02295$$

$$BEC = 0.0209$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.0
2	☐			6.67		P	0.0
3	☐			22.22		P	69.3
4	☐			17.78		P	57.3
5	☐			71.11		P	23.6
6	☐			117.78		P	38.5
7	☐			226.68		P	23.3
8	☐			46.67		P	75.6

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			8.89		P	21.6
5	☐			5.55		P	124.9
6	☐			8.89		P	57.3
7	☐			14.45		P	93.3
8	☐			10.00		P	57.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			2.78		P	173.2
3	☐			11.11		P	114.6
4	☐			47.22		P	36.7
5	☐			80.56		P	31.6
6	☐			136.12		P	30.2
7	☐			227.79		P	5.6
8	☐			963.95		P	5.9

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			4.44		P	43.4
3	☐			7.78		P	49.5
4	☐			11.11		P	45.8
5	☐			40.00		P	8.3
6	☐			55.55		P	24.2
7	☐			116.67		P	22.3
8	☐			444.46		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	70.5
2	☐			36.11		P	26.7
3	☐			33.33		P	25.0
4	☐			72.22		P	54.5
5	☐			111.12		P	4.3
6	☐			100.00		P	8.3
7	☐			233.34		P	16.4
8	☐			769.49		P	11.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.33		P	31.2
2	☐			53.33		P	22.5
3	☐			48.89		P	45.4
4	☐			64.44		P	48.1
5	☐			90.00		P	9.8
6	☐			102.22		P	12.3
7	☐			144.45		P	5.3
8	☐			486.68		P	4.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.67		P	33.1
2	☐			72.23		P	13.3
3	☐			50.00		P	60.1
4	☐			63.89		P	19.9
5	☐			61.11		P	41.7
6	☐			83.33		P	26.5
7	☐			102.78		P	28.5
8	☐			166.68		P	40.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	48.0
2	☐			17.78		P	57.3
3	☐			21.11		P	39.7
4	☐			27.78		P	45.4
5	☐			32.22		P	26.0
6	☐			26.67		P	21.7
7	☐			26.66		P	21.7
8	☐			77.78		P	16.2

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	50.0
2	☐			27.78		P	17.3
3	☐			47.22		P	10.2
4	☐			47.22		P	27.0
5	☐			11.11		P	43.3
6	☐			19.44		P	65.5
7	☐			55.56		P	56.8
8	☐			102.78		P	26.1

172 Yb [He] No available calibration points

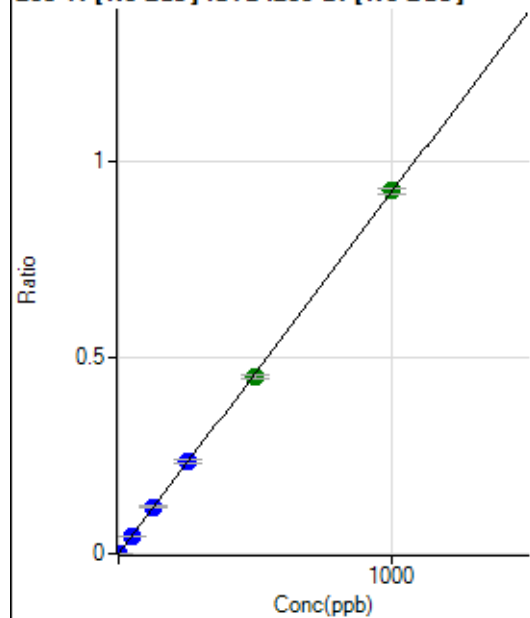
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.97		P	98.9
2	☐			11.11		P	100.0
3	☐			16.67		P	33.3
4	☐			12.96		P	89.2
5	☐			9.26		P	91.7
6	☐			18.52		P	34.6
7	☐			31.48		P	50.9
8	☐			37.04		P	82.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			608.37		P	12.3
2	☐			727.82		P	9.6
3	☐			1511.24		P	10.6
4	☐			2703.14		P	7.9
5	☐			5034.45		P	1.6
6	☐			9300.80		P	5.1
7	☐			17898.65		P	1.1
8	☐			722.26		P	17.5

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4263.74		P	6.5
2	☐			4163.70		P	10.8
3	☐			4510.12		P	4.7
4	☐			5453.08		P	2.7
5	☐			6709.25		P	4.9
6	☐			8654.86		P	4.3
7	☐			12847.18		P	1.5
8	☐			4550.87		P	7.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	491.69	0.0001	P	16.9
2	☐	1.000	0.880	3778.45	0.0009	P	4.8
3	☐	50.000	48.343	182836.23	0.0445	P	5.5
4	☐	125.000	130.263	483409.71	0.1198	P	4.1
5	☐	250.000	252.966	974494.41	0.2325	P	4.3
6	☐	500.000	489.037	1976645.40	0.4494	A	1.8
7	☐	1000.000	1004.165	4120903.04	0.9226	A	1.5
8	☐			3322.77	0.0008	P	5.6

$$y = 9.1866E-004 * x + 1.2692E-004$$

$$R = 0.9999$$

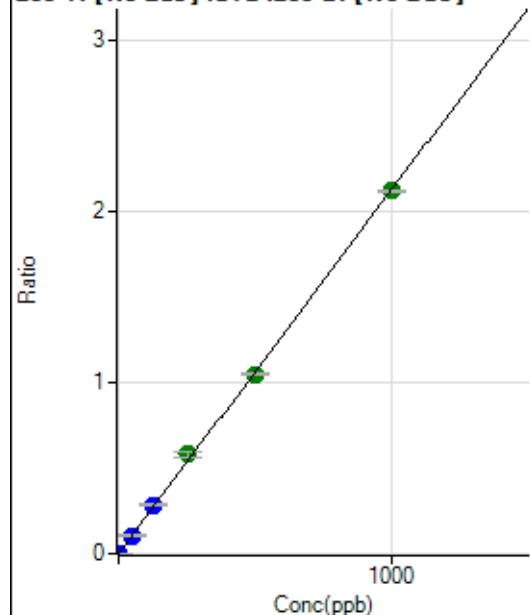
$$DL = 0.07015$$

$$BEC = 0.1382$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1333.44	0.0003	P	9.6
2	☐	1.000	0.916	9256.34	0.0023	P	2.1
3	☐	50.000	49.029	429833.30	0.1047	P	4.7
4	☐	125.000	134.587	1156583.70	0.2868	P	6.6
5	☐	250.000	272.643	2432707.97	0.5805	A	4.9
6	☐	500.000	492.029	4607380.31	1.0474	A	1.2
7	☐	1000.000	997.175	9479827.30	2.1224	A	0.7
8	☐			7822.20	0.0019	P	3.9

$$y = 0.0021 * x + 3.4206E-004$$

$$R = 0.9996$$

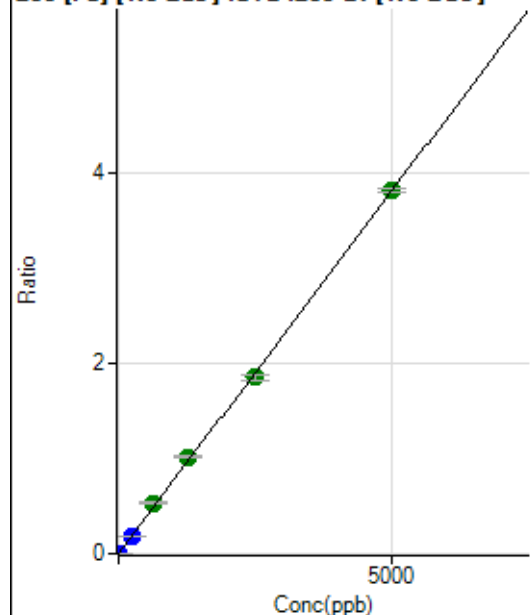
$$DL = 0.04636$$

$$BEC = 0.1607$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	518.54	0.0001	P	3.4
2	☐	1.000	0.848	3146.74	0.0008	P	3.2
3	☐	250.000	233.705	731614.71	0.1781	P	2.0
4	☐	625.000	692.788	2128904.14	0.5276	A	4.2
5	☐	1250.000	1330.333	4246227.18	1.0130	A	2.4
6	☐	2500.000	2430.606	8138444.28	1.8506	A	3.5
7	☐	5000.000	5006.955	17026963.34	3.8121	A	1.0
8	☐			17011.62	0.0041	P	2.9

$$y = 7.6134E-004 * x + 1.3329E-004$$

$$R = 0.9996$$

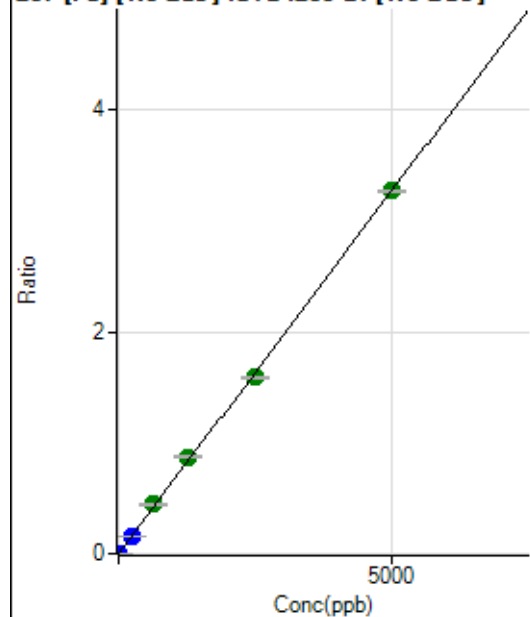
$$DL = 0.01785$$

$$BEC = 0.1751$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	392.61	0.0001	P	7.5
2	☐	1.000	0.890	2759.61	0.0007	P	1.7
3	☐	250.000	234.094	629108.65	0.1532	P	4.5
4	☐	625.000	685.387	1809076.33	0.4483	A	4.7
5	☐	1250.000	1337.596	3666767.33	0.8749	A	3.2
6	☐	2500.000	2436.313	7009766.19	1.5934	A	1.0
7	☐	5000.000	5003.191	14615643.84	3.2721	A	0.4
8	☐			14022.86	0.0034	P	5.6

$$y = 6.5399E-004 * x + 1.0112E-004$$

R = 0.9996

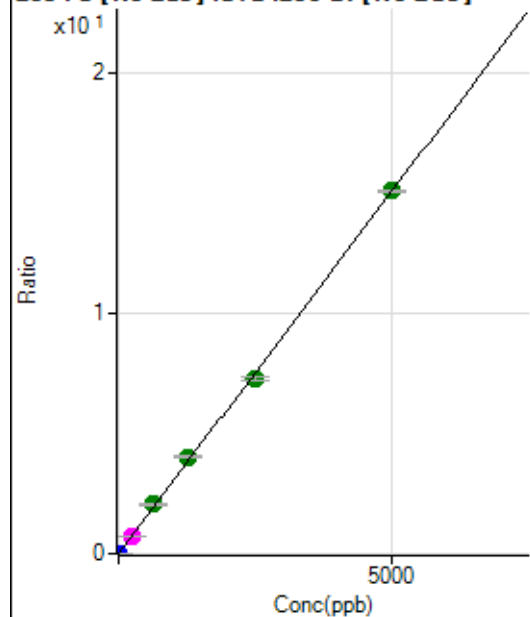
DL = 0.0349

BEC = 0.1546

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1940.84	0.0005	P	1.7
2	☐	1.000	0.850	12348.81	0.0031	P	2.8
3	☐	250.000	236.065	2921268.65	0.7114	M	4.9
4	☐	625.000	687.090	8352601.49	2.0698	A	4.0
5	☐	1250.000	1336.261	16868919.77	4.0248	A	3.1
6	☐	2500.000	2417.691	32030160.85	7.2817	A	1.4
7	☐	5000.000	5012.524	67430441.32	15.0963	A	0.5
8	☐			66063.65	0.0161	P	4.3

$$y = 0.0030 * x + 4.9899E-004$$

R = 0.9996

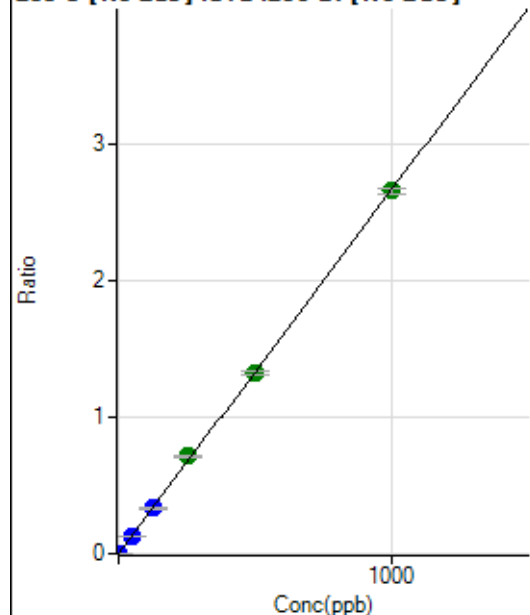
DL = 0.008467

BEC = 0.1657

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	60.0
2	☐	1.000	0.883	9531.65	0.0024	P	5.8
3	☐	50.000	46.434	508234.72	0.1238	P	4.1
4	☐	125.000	125.438	1349453.69	0.3343	P	3.1
5	☐	250.000	268.148	2996232.36	0.7147	A	1.9
6	☐	500.000	496.648	5824736.98	1.3237	A	1.5
7	☐	1000.000	997.263	11871870.06	2.6580	A	1.9
8	☐			7808.43	0.0019	P	9.6

$$y = 0.0027 * x + 5.7792E-006$$

$$R = 0.9998$$

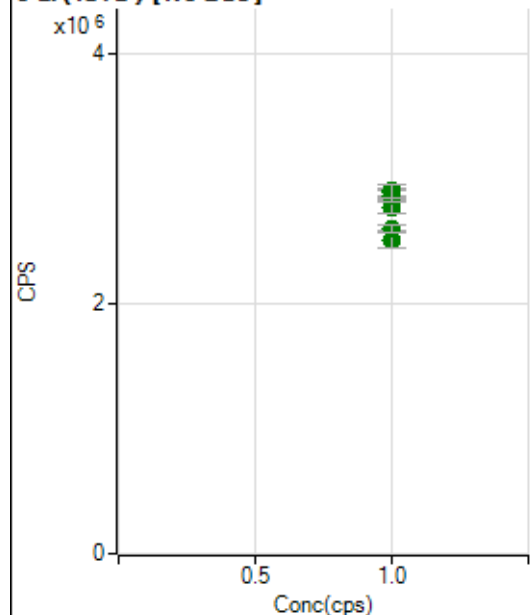
$$DL = 0.003904$$

$$BEC = 0.002168$$

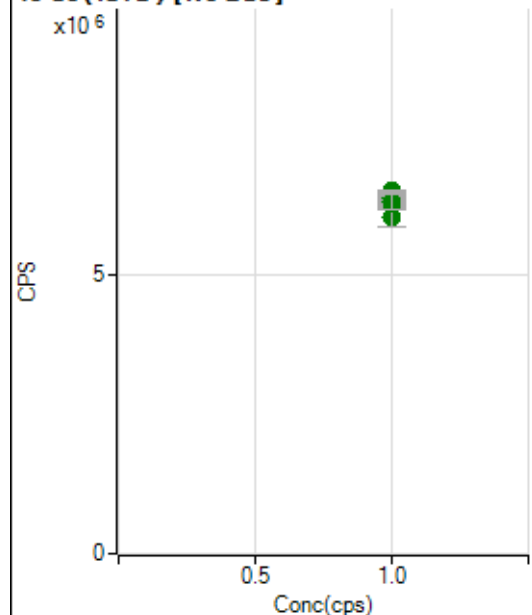
Weight: <None>

Min Conc: 0

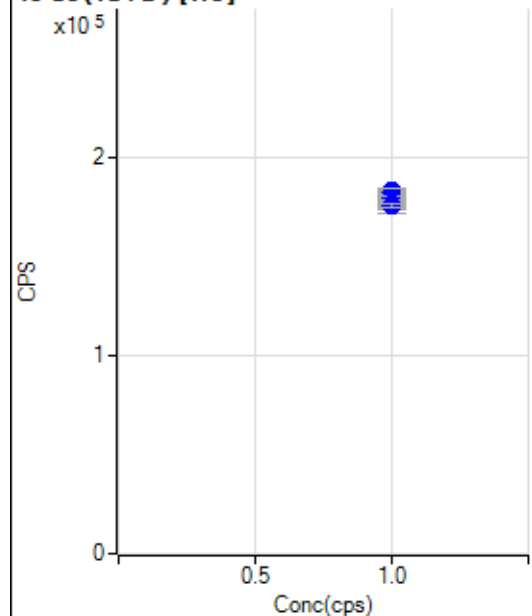
6 Li (ISTD) [No Gas]



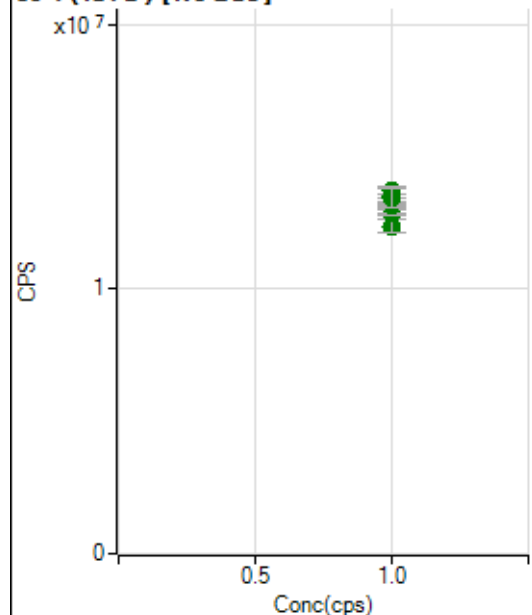
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2500234.90		A	5.2
2	☐	1.000		2597359.89		A	1.9
3	☐	1.000		2603355.58		A	1.7
4	☐	1.000		2594894.11		A	2.2
5	☐	1.000		2767369.55		A	3.8
6	☐	1.000		2889660.10		A	2.2
7	☐	1.000		2853748.10		A	3.4
8	☐	1.000		2898664.13		A	3.6

45 Sc (ISTD) [No Gas]

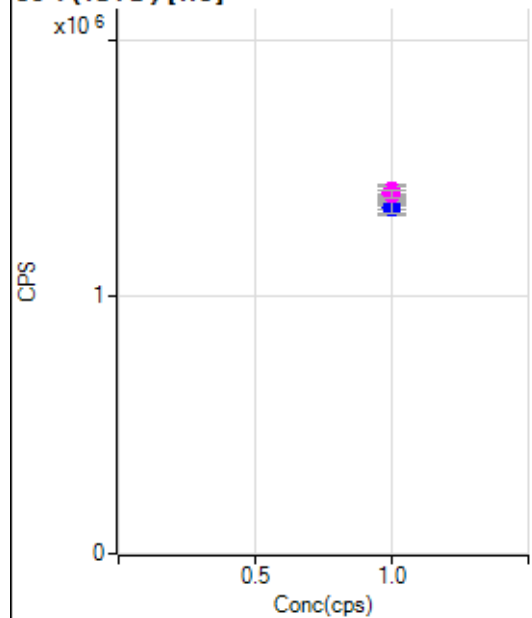
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6015468.94		A	5.6
2	☐	1.000		6263728.87		A	0.7
3	☐	1.000		6307643.45		A	0.8
4	☐	1.000		6280851.09		A	2.0
5	☐	1.000		6355670.32		A	1.3
6	☐	1.000		6348194.56		A	1.4
7	☐	1.000		6484672.61		A	0.8
8	☐	1.000		6297384.14		A	4.6

45 Sc (ISTD) [He]

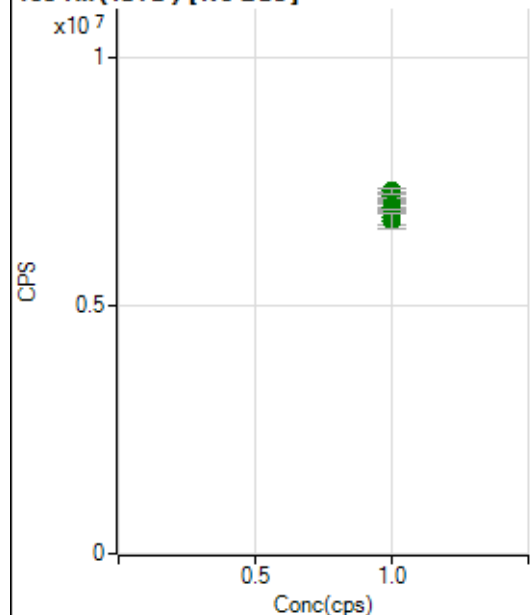
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		183476.42		P	0.8
2	☐	1.000		178016.58		P	4.7
3	☐	1.000		182357.62		P	2.6
4	☐	1.000		179785.16		P	1.0
5	☐	1.000		177346.26		P	1.1
6	☐	1.000		175840.82		P	1.3
7	☐	1.000		175658.64		P	3.5
8	☐	1.000		176356.94		P	1.1

89 Y (ISTD) [No Gas]

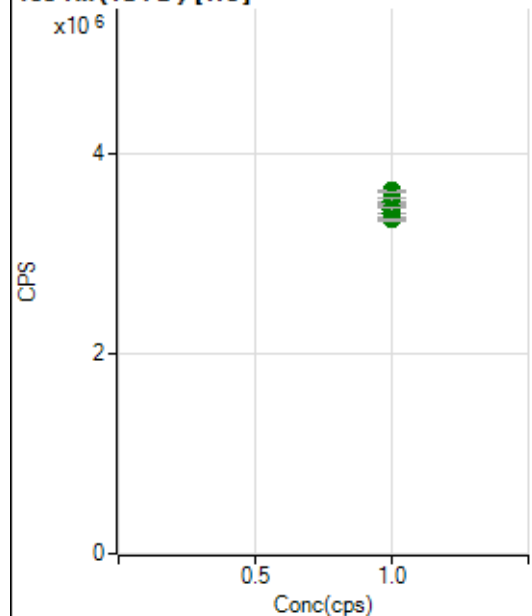
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12381938.70		A	4.2
2	☐	1.000		12855821.20		A	0.6
3	☐	1.000		13179443.42		A	1.8
4	☐	1.000		13139817.30		A	2.2
5	☐	1.000		13202392.44		A	0.7
6	☐	1.000		13528866.05		A	1.2
7	☐	1.000		13710797.30		A	2.0
8	☐	1.000		13467145.77		A	5.3

89 Y (ISTD) [He]

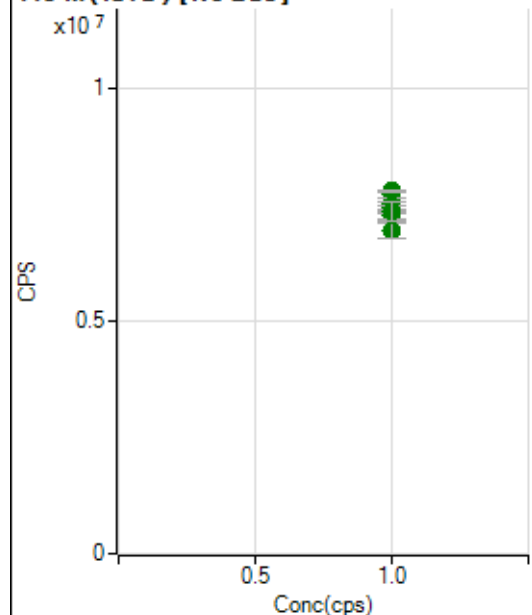
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1393102.43		M	2.7
2	☐	1.000		1359952.39		M	5.9
3	☐	1.000		1404416.80		M	4.7
4	☐	1.000		1367240.64		P	1.0
5	☐	1.000		1411758.89		M	2.4
6	☐	1.000		1347909.13		P	1.0
7	☐	1.000		1348495.74		P	3.1
8	☐	1.000		1397729.29		M	2.4

103 Rh (ISTD) [No Gas]

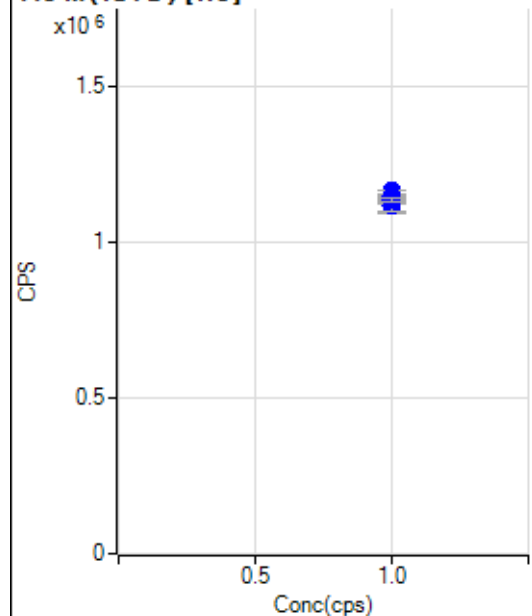
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6758041.25		A	3.6
2	☐	1.000		6946993.30		A	0.7
3	☐	1.000		7112896.25		A	0.7
4	☐	1.000		6983546.77		A	1.6
5	☐	1.000		7127849.55		A	0.7
6	☐	1.000		7215231.15		A	1.3
7	☐	1.000		7301391.74		A	1.3
8	☐	1.000		6706100.63		A	4.6

103 Rh (ISTD) [He]

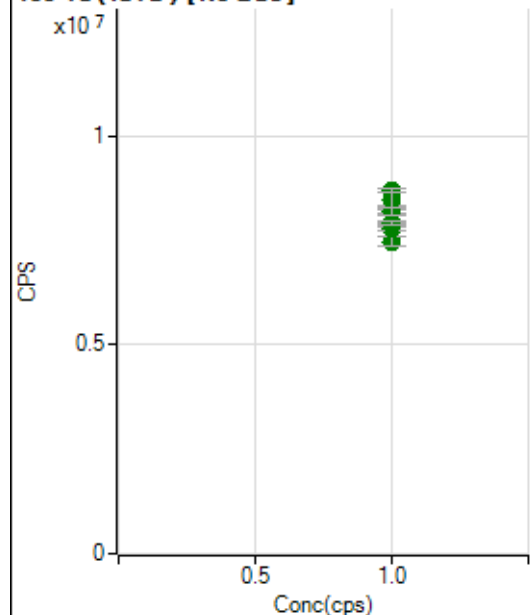
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3627392.17		A	0.2
2	☐	1.000		3444942.94		A	4.6
3	☐	1.000		3554948.07		A	3.2
4	☐	1.000		3501599.53		A	1.0
5	☐	1.000		3526931.89		A	1.7
6	☐	1.000		3437119.19		A	1.6
7	☐	1.000		3397101.93		A	4.0
8	☐	1.000		3343094.05		A	0.7

115 In (ISTD) [No Gas]

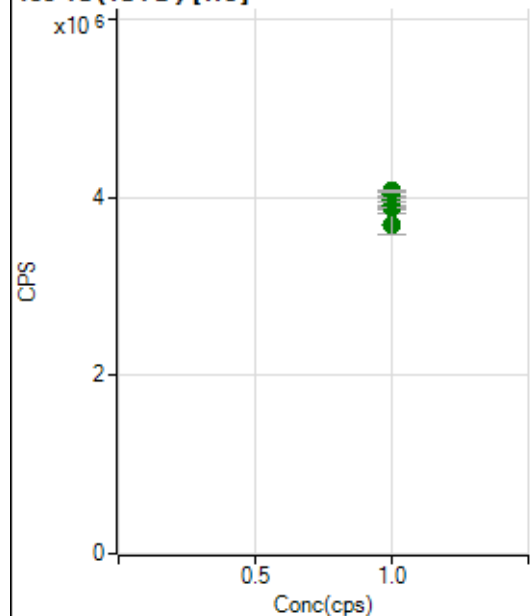
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6937722.64		A	4.6
2	☐	1.000		7248802.95		A	2.5
3	☐	1.000		7415370.60		A	1.4
4	☐	1.000		7353988.28		A	1.3
5	☐	1.000		7517655.89		A	1.0
6	☐	1.000		7697713.14		A	1.7
7	☐	1.000		7782207.24		A	0.2
8	☐	1.000		7343302.30		A	5.4

115 In (ISTD) [He]

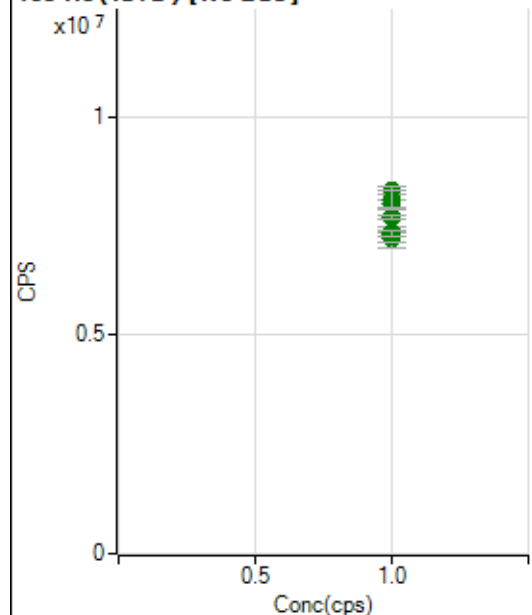
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1163706.44		P	0.1
2	☐	1.000		1116987.43		P	5.0
3	☐	1.000		1152771.81		P	2.8
4	☐	1.000		1147750.70		P	1.2
5	☐	1.000		1141648.53		P	0.3
6	☐	1.000		1127479.02		P	1.2
7	☐	1.000		1114923.86		P	3.1
8	☐	1.000		1133600.70		P	0.9

159 Tb (ISTD) [No Gas]

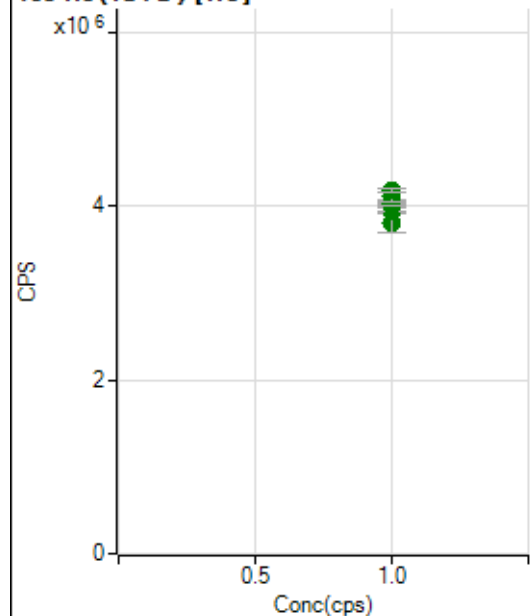
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7479733.08		A	2.8
2	☐	1.000		7778701.20		A	1.0
3	☐	1.000		7880551.34		A	1.2
4	☐	1.000		7931999.26		A	1.2
5	☐	1.000		8212206.34		A	1.3
6	☐	1.000		8217712.45		A	3.0
7	☐	1.000		8694197.37		A	1.1
8	☐	1.000		8483552.58		A	4.7

159 Tb (ISTD) [He]

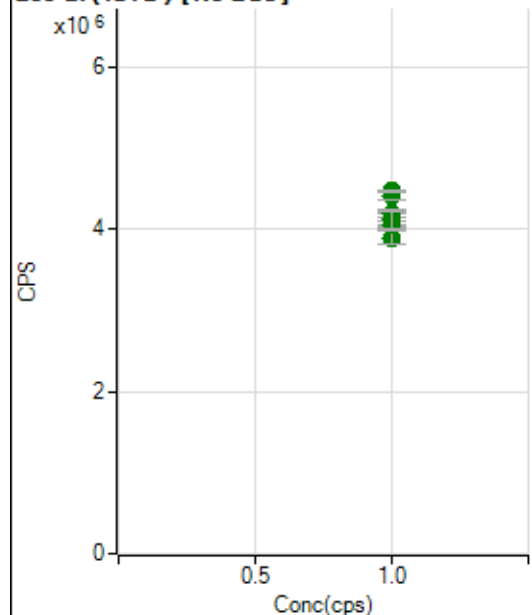
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3911317.89		A	2.2
2	☐	1.000		3696082.20		A	6.3
3	☐	1.000		3874066.47		A	3.4
4	☐	1.000		3879735.77		A	1.3
5	☐	1.000		3907315.39		A	1.6
6	☐	1.000		3971781.43		A	1.7
7	☐	1.000		4033108.79		A	2.6
8	☐	1.000		4069338.31		A	0.8

165 Ho (ISTD) [No Gas]

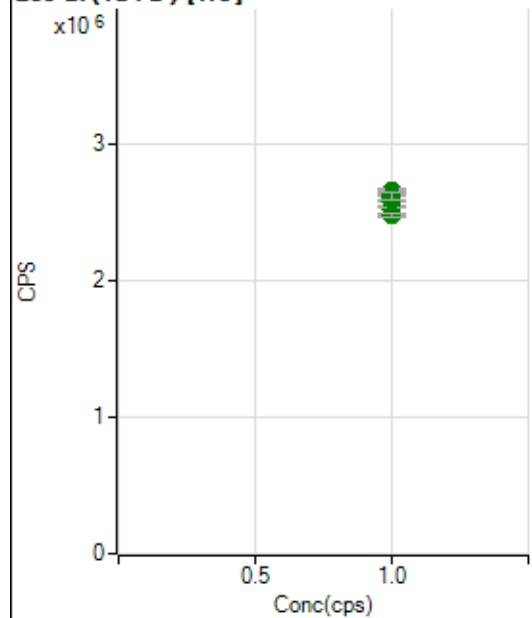
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7229668.22		A	6.8
2	☐	1.000		7293253.03		A	0.8
3	☐	1.000		7263896.43		A	3.3
4	☐	1.000		7339099.47		A	1.8
5	☐	1.000		7705552.43		A	0.9
6	☐	1.000		7983031.69		A	2.3
7	☐	1.000		8297807.74		A	2.2
8	☐	1.000		8110454.26		A	4.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3989830.53		A	0.2
2	☐	1.000		3800927.55		A	6.1
3	☐	1.000		3932845.64		A	0.7
4	☐	1.000		3934323.31		A	0.3
5	☐	1.000		4012002.61		A	0.7
6	☐	1.000		4031286.92		A	1.4
7	☐	1.000		4104416.05		A	2.8
8	☐	1.000		4173302.86		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3887911.61		A	4.3
2	☐	1.000		4038984.94		A	1.0
3	☐	1.000		4110316.22		A	3.4
4	☐	1.000		4038913.27		A	3.3
5	☐	1.000		4193459.07		A	2.5
6	☐	1.000		4399498.37		A	1.9
7	☐	1.000		4466660.17		A	0.5
8	☐	1.000		4115091.68		A	5.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2592642.60		A	2.7
2	☐	1.000		2528170.80		A	4.0
3	☐	1.000		2585224.11		A	3.4
4	☐	1.000		2608966.39		A	1.1
5	☐	1.000		2660840.17		A	1.5
6	☐	1.000		2642939.84		A	1.4
7	☐	1.000		2622160.31		A	2.3
8	☐	1.000		2479948.00		A	1.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8112021 MS.b
Acq. Date-Time 2021-11-20 14:09:58
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		6729	67293.12			0.813	5.000
24		77814	778136.83			1.191	5.000
25		10655	106550.24			0.925	5.000
26		12200	121999.49			0.814	5.000
59		17985	179851.84			0.795	5.000
113		7231	72313.03			0.569	5.000
115		24477	244774.03			2.745	5.000
206		7831	78312.74			1.026	5.000
207		6546	65460.94			0.664	5.000
208		16002	160019.04			1.413	5.000
220		1	9.00			14.164	

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

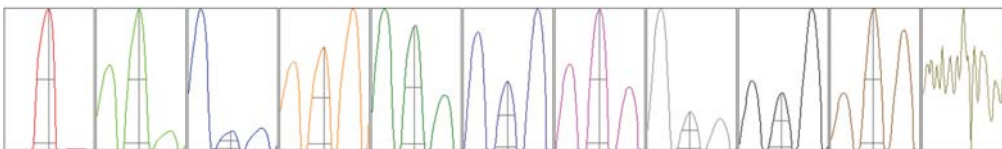
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6691	6771	6748	6654	6782
24	78201	79169	76793	77182	77723
25	10637	10718	10744	10494	10682
26	12244	12286	12235	12030	12205
59	17944	18048	17986	17779	18169
113	7299	7211	7237	7191	7219
115	25369	24919	24401	23751	23947
206	7697	7846	7913	7842	7859
207	6484	6593	6562	6521	6571
208	15608	16102	16178	16090	16030

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12001.24	9.00	8.90 - 9.10	
24	140485.45	23.95	23.90 - 24.10	
25	18159.49	24.95	24.90 - 25.10	
26	21292.31	26.00	25.90 - 26.10	
59	32940.79	58.95	58.90 - 59.10	
113	14061.40	113.00	112.90 - 113.10	
115	47158.92	115.00	114.90 - 115.10	
206	15036.44	205.95	205.90 - 206.10	
207	12411.49	206.95	206.90 - 207.10	
208	30563.41	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.742	0.900	
24	0.60	0.826	0.900	
25	0.62	0.788	0.900	
26	0.61	0.786	0.900	
59	0.57	0.780	0.900	
113	0.54	0.732	0.900	
115	0.54	0.729	0.900	
206	0.54	0.768	0.900	
207	0.54	0.781	0.900	
208	0.54	0.783	0.900	
220	0.27			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 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	1.40 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	8.8 V	Deflect	15.2 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-80 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.1 mV	Analog HV	2265 V	Pulse HV	1573 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4168	41682.49			2.007	
89		14399	143990.20			1.860	
205		19215	192147.65			2.425	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4129	4122	4103	4309	4179
89	14153	14310	14338	14858	14336
205	18665	19052	19211	19949	19197

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 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	8.8 V	Deflect	4.8 V
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Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-80 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	0.9993	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.04		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.7 mm
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EM

Discriminator	4.1 mV	Analog HV	2265 V	Pulse HV	1573 V
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