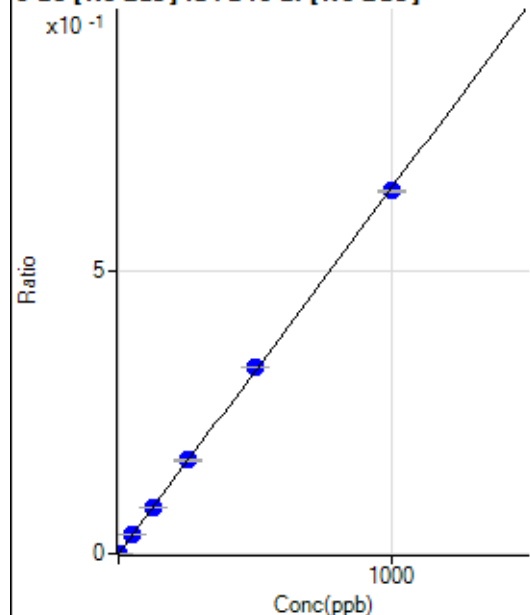


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8120120IMS.b\
Analysis File: P8120120IMS.batch.bin
DA Date-Time: 2020-12-10 00:24:41
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-01 11:22:31
2	004CAL.S.d	S02	2020-12-01 11:25:43
3	005CAL.S.d	S03	2020-12-01 11:28:51
4	006CAL.S.d	S04	2020-12-01 11:32:02
5	007CAL.S.d	S05	2020-12-01 11:35:06
6	008CAL.S.d	S06	2020-12-01 11:38:06
7	009CAL.S.d	S07	2020-12-01 11:41:05
8	011CAL.S.d	S08	2020-12-01 12:02:13

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	36.66	0.0000	P	20.5
2	☐	1.000	0.837	644.56	0.0006	P	3.9
3	☐	50.000	50.683	37713.75	0.0328	P	2.6
4	☐	125.000	126.703	93762.35	0.0820	P	1.5
5	☐	250.000	255.615	192046.90	0.1654	P	3.5
6	☐	500.000	511.293	380249.66	0.3309	P	0.3
7	☐	1000.000	992.703	752920.45	0.6424	P	0.4
8	☐			149.97	0.0001	P	20.1

$$y = 6.4711\text{E-}004 * x + 3.2584\text{E-}005$$

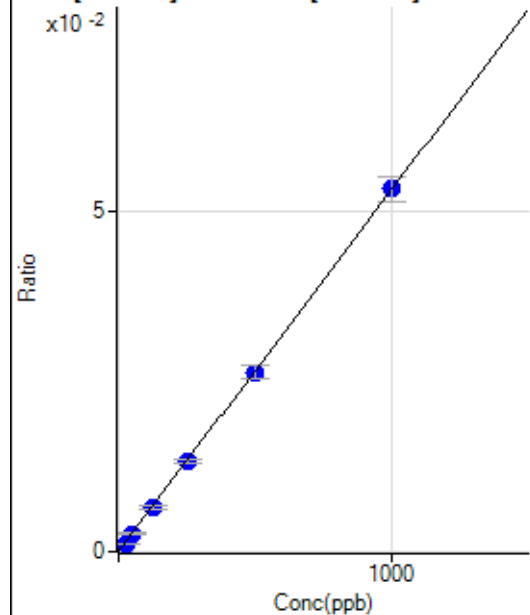
$$R = 0.9999$$

$$DL = 0.03099$$

$$BEC = 0.05035$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.65	0.0001	P	32.1
2	☐	25.000	18.414	1215.15	0.0011	P	10.1
3	☐	50.000	47.863	3041.73	0.0026	P	8.1
4	☐	125.000	121.625	7516.46	0.0066	P	8.3
5	☐	250.000	249.705	15545.83	0.0134	P	5.2
6	☐	500.000	495.119	30363.93	0.0264	P	7.3
7	☐	1000.000	1003.207	62652.53	0.0534	P	7.0
8	☐			923.85	0.0008	P	13.0

$$y = 5.3131\text{E-}005 * x + 1.0443\text{E-}004$$

$$R = 1.0000$$

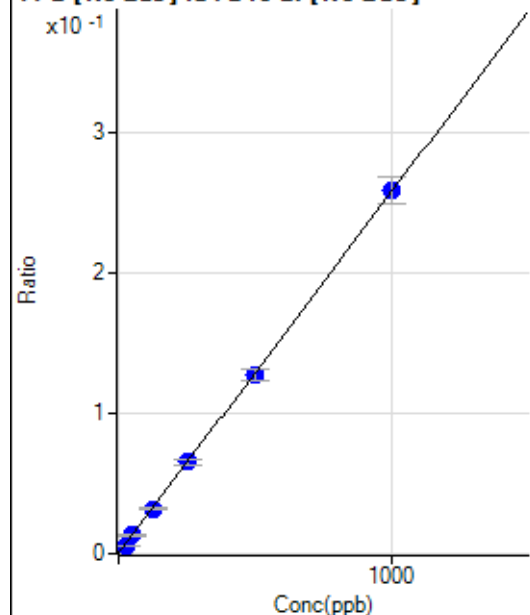
$$DL = 1.891$$

$$BEC = 1.965$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	514.58	0.0005	P	9.3
2	☐	25.000	19.040	6004.73	0.0054	P	6.6
3	☐	50.000	49.288	15076.78	0.0131	P	8.3
4	☐	125.000	123.277	36783.31	0.0321	P	6.8
5	☐	250.000	251.882	75774.51	0.0652	P	4.8
6	☐	500.000	493.739	146373.78	0.1273	P	7.1
7	☐	1000.000	1003.060	302870.15	0.2582	P	7.4
8	☐			4353.79	0.0039	P	3.9

$$y = 2.5694E-004 * x + 4.5919E-004$$

$$R = 1.0000$$

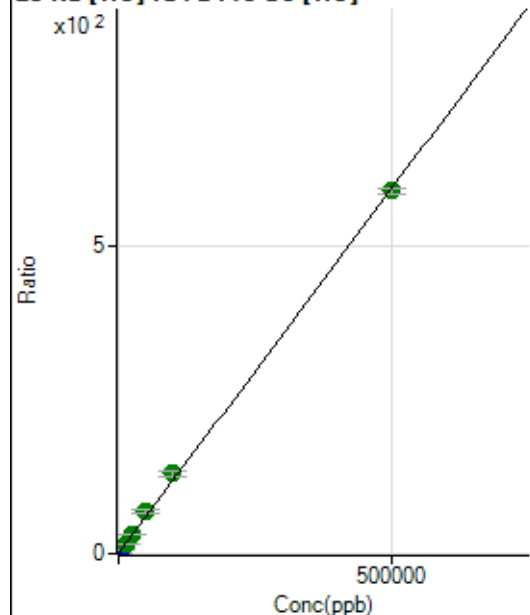
$$DL = 0.4988$$

$$BEC = 1.787$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	34029.17	0.3368	P	7.1
2	☐	500.000	442.561	89750.66	0.8600	P	1.9
3	☐	5000.000	5529.789	705350.84	6.8750	P	0.8
4	☐	12500.000	13489.148	1705444.34	16.2859	A	2.4
5	☐	25000.000	26753.720	3295243.43	31.9694	A	1.7
6	☐	50000.000	57706.149	6597988.78	68.5664	A	9.8
7	☐	100000.00	110242.96	13525308.46	130.6841	A	6.8
8	☐	500000.00	497063.13	61641154.85	588.0463	A	1.9

$$y = 0.0012 * x + 0.3368$$

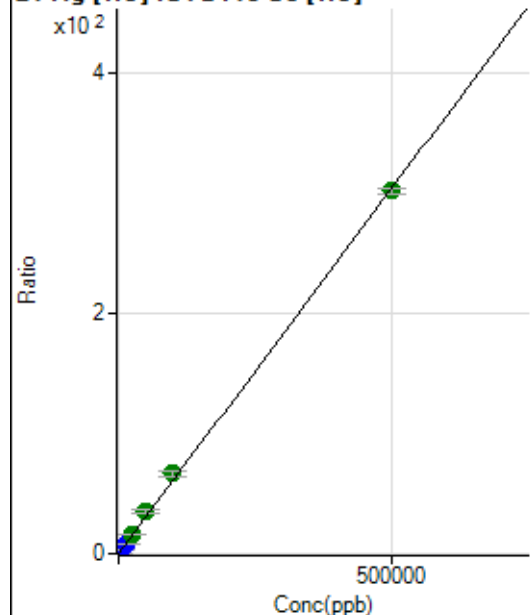
$$R = 0.9997$$

$$DL = 60.36$$

$$BEC = 284.8$$

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	530.58	0.0053	P	14.7
2	☐	500.000	453.463	29240.94	0.2802	P	1.6
3	☐	5000.000	5557.227	346268.26	3.3748	P	0.7
4	☐	12500.000	13826.965	878508.62	8.3890	P	2.1
5	☐	25000.000	27122.439	1695663.02	16.4505	A	1.4
6	☐	50000.000	58428.781	3408675.55	35.4325	A	10.2
7	☐	100000.00	110238.92	6917245.90	66.8467	A	7.3
8	☐	500000.00	496964.51	31586361.12	301.3309	A	1.9

$$y = 6.0633\text{E-}004 * x + 0.0053$$

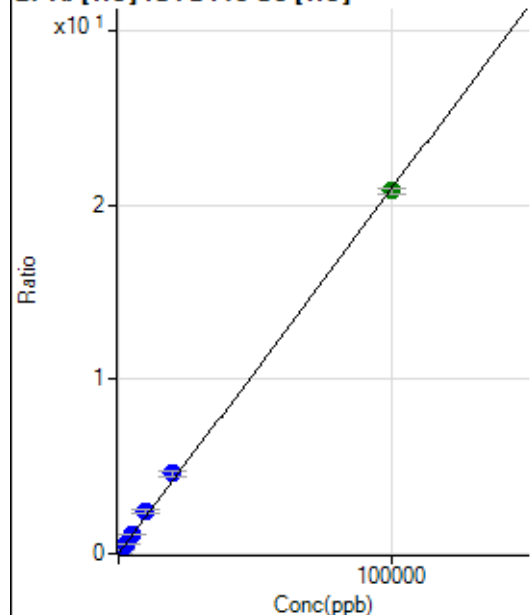
$$R = 0.9997$$

$$DL = 3.824$$

$$BEC = 8.669$$

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	348.71	0.0034	P	10.5
2	☐	20.000	19.350	782.84	0.0075	P	2.6
3	☐	1000.000	1061.131	23150.02	0.2256	P	1.0
4	☐	2500.000	2656.313	58608.66	0.5597	P	2.2
5	☐	5000.000	5317.220	115127.75	1.1169	P	1.1
6	☐	10000.000	11480.899	231774.36	2.4075	P	9.1
7	☐	20000.000	21897.365	474991.28	4.5887	P	6.4
8	☐	100000.00	99452.057	2183350.76	20.8285	A	1.8

$$y = 2.0940\text{E-}004 * x + 0.0034$$

$$R = 0.9997$$

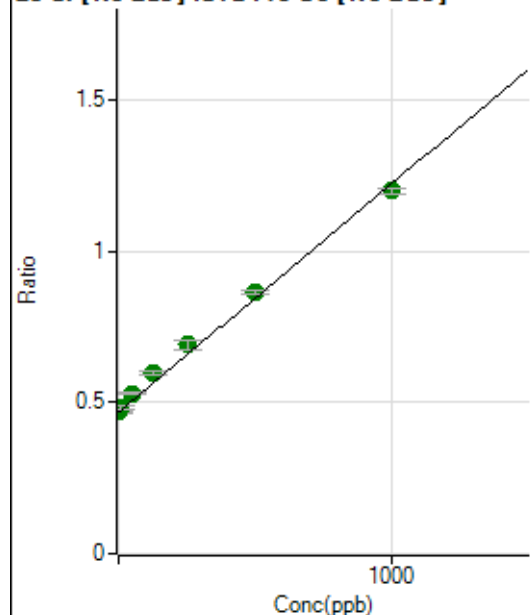
$$DL = 5.182$$

$$BEC = 16.47$$

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	1178398.97	0.4685	A	0.5
2	☐	10.000	20.949	1213734.86	0.4844	A	2.7
3	☐	50.000	81.001	1345670.98	0.5298	A	1.0
4	☐	125.000	173.489	1528074.50	0.5998	A	2.3
5	☐	250.000	296.729	1784036.06	0.6931	A	4.8
6	☐	500.000	525.469	2249745.13	0.8663	A	1.1
7	☐	1000.000	967.863	3160054.50	1.2011	A	1.9
8	☐			1257793.23	0.4912	A	3.2

$$y = 7.5688\text{E-}004 * x + 0.4685$$

$$R = 0.9978$$

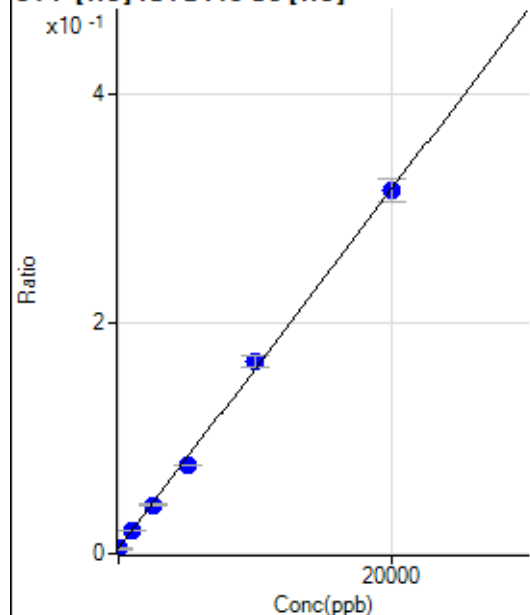
$$DL = 9.799$$

$$BEC = 619$$

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	33.814	541.69	0.0054	P	10.5
2	☐	0.000	-33.814	450.02	0.0043	P	7.6
3	☐	1000.000	960.262	2033.53	0.0198	P	3.1
4	☐	2500.000	2405.134	4436.91	0.0424	P	2.0
5	☐	5000.000	4627.894	7944.05	0.0771	P	1.0
6	☐	10000.000	10397.304	16114.86	0.1671	P	6.4
7	☐	20000.000	19908.219	32679.00	0.3155	P	6.4
8	☐			563.92	0.0054	P	2.3

$$y = 1.5605\text{E-}005 * x + 0.0048$$

$$R = 0.9995$$

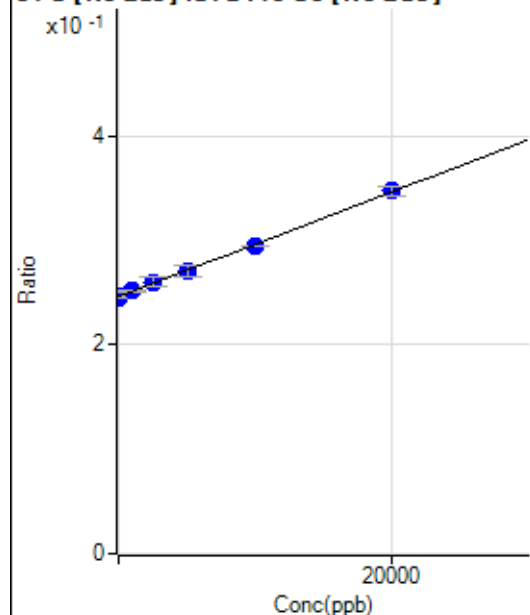
$$DL = 85.71$$

$$BEC = 310$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	101.625	620976.83	0.2469	P	1.1
2	☐	0.000	-101.625	616220.65	0.2459	P	1.4
3	☐	1000.000	1068.625	639379.84	0.2518	P	0.5
4	☐	2500.000	2847.772	663762.52	0.2607	P	2.9
5	☐	5000.000	4846.129	696783.97	0.2707	P	4.5
6	☐	10000.000	9607.436	764962.55	0.2945	P	0.1
7	☐	20000.000	20187.847	914316.61	0.3476	P	2.5
8	☐			581403.78	0.2271	P	3.7

$$y = 5.0110\text{E-}006 * x + 0.2464$$

$$R = 0.9994$$

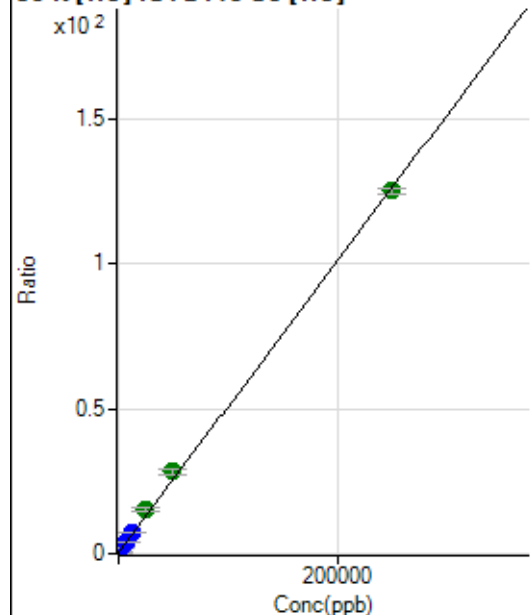
$$DL = 1875$$

$$BEC = 4.917\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33183.22	0.3280	P	3.1
2	☐	500.000	406.475	55540.75	0.5322	P	0.8
3	☐	2500.000	2758.593	175856.63	1.7140	P	0.5
4	☐	6250.000	6814.874	392939.83	3.7521	P	1.8
5	☐	12500.000	13671.092	741852.57	7.1971	P	1.4
6	☐	25000.000	29209.651	1444208.27	15.0045	A	9.4
7	☐	50000.000	55740.336	2933526.19	28.3350	A	6.0
8	☐	250000.00	248355.89	13115776.25	125.1158	A	1.4

$$y = 5.0246\text{E-}004 * x + 0.3280$$

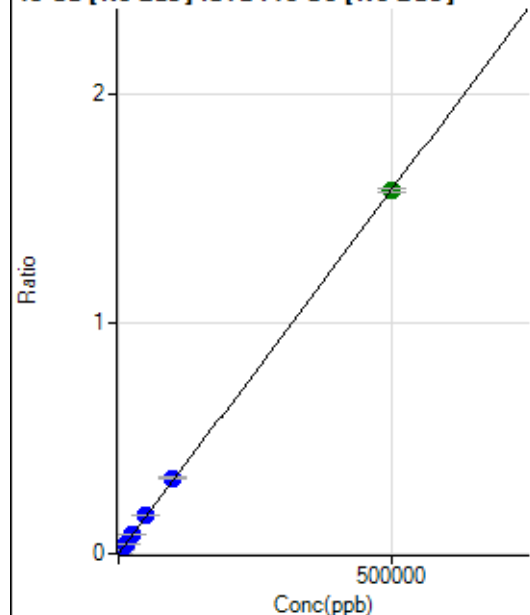
$$R = 0.9996$$

$$DL = 60.69$$

$$BEC = 652.7$$

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	679.10	0.0003	P	1.5
2	☐	500.000	415.328	3961.73	0.0016	P	4.8
3	☐	5000.000	5199.550	42384.42	0.0167	P	0.6
4	☐	12500.000	13025.821	105453.90	0.0414	P	2.0
5	☐	25000.000	26425.754	215471.16	0.0837	P	4.9
6	☐	50000.000	52090.334	427890.37	0.1648	P	0.4
7	☐	100000.00	103987.10	864749.82	0.3286	P	1.7
8	☐	500000.00	498907.20	4037019.05	1.5757	A	1.1

$$y = 3.1577\text{E-}006 * x + 2.7000\text{E-}004$$

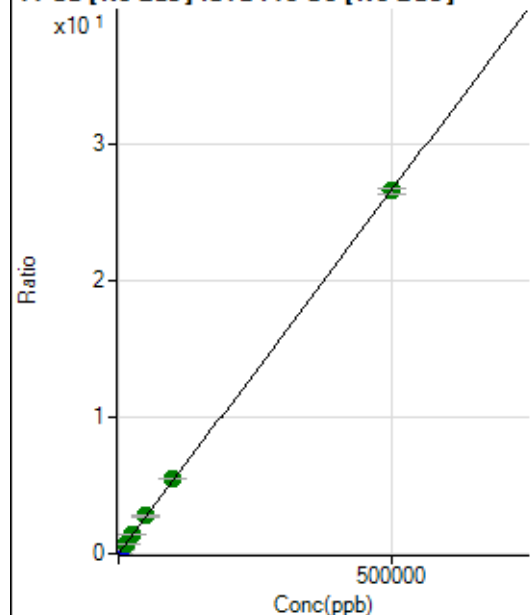
$$R = 1.0000$$

$$DL = 3.953$$

$$BEC = 85.5$$

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	25169.51	0.0100	P	0.7
2	☐	500.000	430.389	82495.76	0.0329	P	1.9
3	☐	5000.000	5310.449	743405.17	0.2927	P	0.9
4	☐	12500.000	12973.138	1784788.42	0.7006	A	1.4
5	☐	25000.000	26112.654	3604405.42	1.4001	A	4.3
6	☐	50000.000	51493.408	7145337.00	2.7513	A	1.5
7	☐	100000.00	102474.86	14382983.61	5.4654	A	0.8
8	☐	500000.00	499285.19	68116471.80	26.5900	A	1.6

$$y = 5.3236\text{E-}005 * x + 0.0100$$

$$R = 1.0000$$

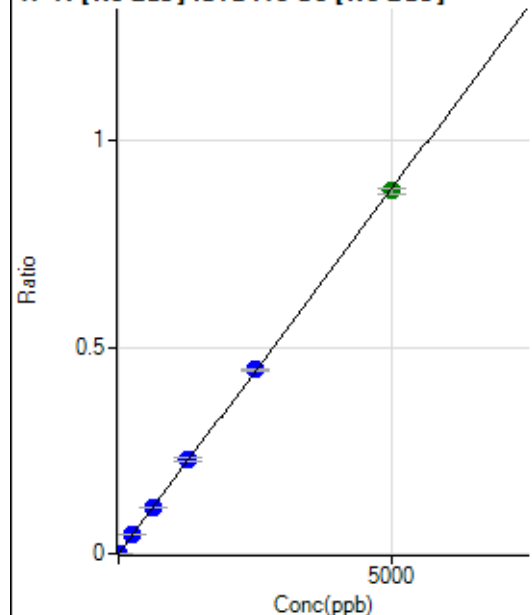
$$DL = 4.224$$

$$BEC = 188$$

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	369.46	0.0001	P	14.7
2	☐	5.000	4.444	2333.59	0.0009	P	5.5
3	☐	250.000	256.415	115363.12	0.0454	P	2.8
4	☐	625.000	635.006	286028.10	0.1123	P	1.1
5	☐	1250.000	1292.314	587734.44	0.2283	P	4.8
6	☐	2500.000	2525.971	1158778.06	0.4462	P	1.2
7	☐	5000.000	4974.865	2312175.33	0.8786	A	1.6
8	☐			658.37	0.0003	P	7.8

$$y = 1.7658E-004 * x + 1.4686E-004$$

$$R = 0.9999$$

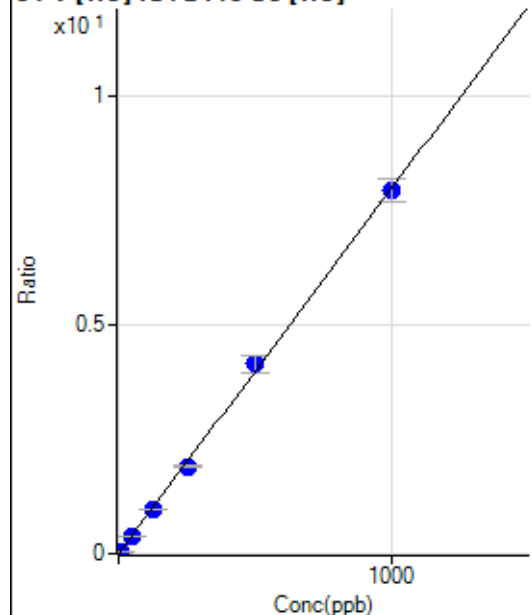
$$DL = 0.3675$$

$$BEC = 0.8317$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	14.45	0.0001	P	22.8
2	☐	5.000	3.952	3309.30	0.0317	P	1.6
3	☐	50.000	47.989	39349.48	0.3835	P	1.1
4	☐	125.000	119.600	100084.47	0.9556	P	1.1
5	☐	250.000	238.834	196693.04	1.9082	P	1.3
6	☐	500.000	520.080	399904.88	4.1551	P	9.5
7	☐	1000.000	993.532	821612.76	7.9376	P	6.5
8	☐			202.23	0.0019	P	9.7

$$y = 0.0080 * x + 1.4165E-004$$

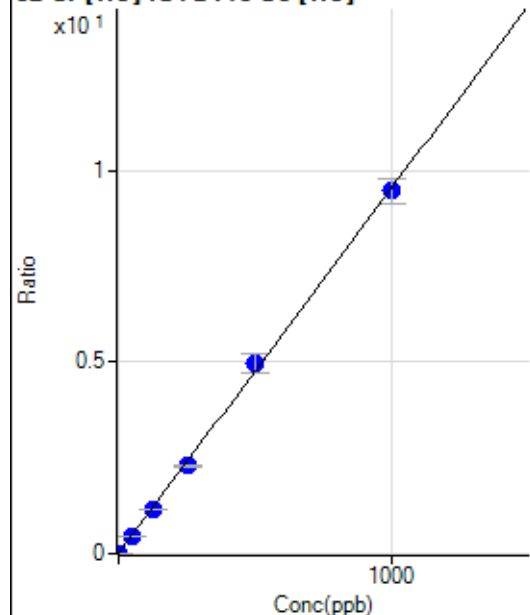
$$R = 0.9996$$

$$DL = 0.01213$$

$$BEC = 0.01773$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	528.91	0.0052	P	9.1
2	☐	2.000	1.681	2217.97	0.0213	P	3.6
3	☐	50.000	47.968	47459.63	0.4625	P	1.4
4	☐	125.000	119.584	119948.62	1.1453	P	0.8
5	☐	250.000	239.631	236030.83	2.2897	P	0.8
6	☐	500.000	521.024	478518.64	4.9723	P	9.7
7	☐	1000.000	992.859	980030.03	9.4704	P	7.2
8	☐			17864.55	0.1704	P	0.6

$$y = 0.0095 * x + 0.0052$$

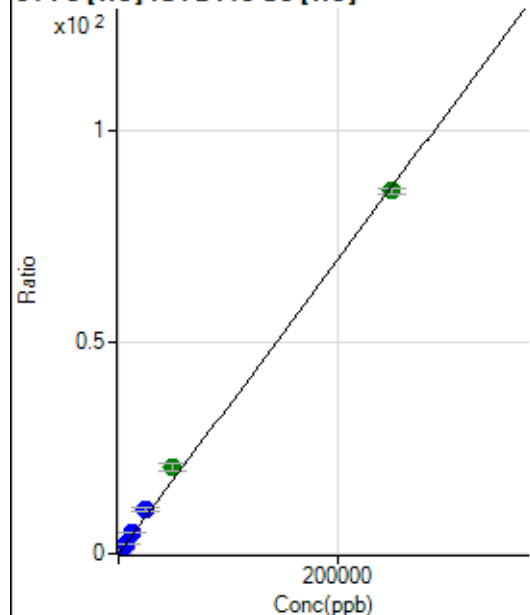
$$R = 0.9996$$

$$DL = 0.1505$$

$$BEC = 0.5487$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	381.49	0.0038	P	21.4
2	☐	50.000	49.154	2172.43	0.0208	P	10.3
3	☐	2500.000	2850.084	101753.87	0.9917	P	0.4
4	☐	6250.000	7097.670	258054.81	2.4641	P	1.5
5	☐	12500.000	14148.938	505941.59	4.9083	P	1.2
6	☐	25000.000	30652.026	1023023.00	10.6289	P	9.5
7	☐	50000.000	58940.548	2114592.86	20.4347	A	7.2
8	☐	250000.00	247539.54	8995343.95	85.8097	A	1.4

$$y = 3.4664E-004 * x + 0.0038$$

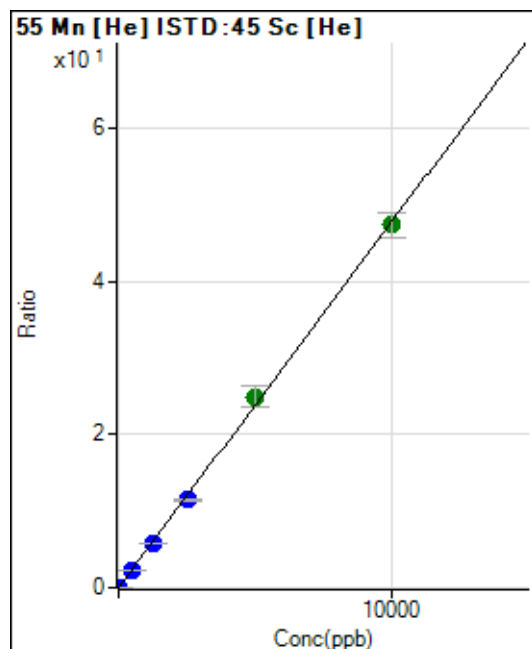
$$R = 0.9991$$

$$DL = 7.018$$

$$BEC = 10.92$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	73.33	0.0007	P	32.1
2	☐	1.000	0.879	513.35	0.0049	P	2.0
3	☐	500.000	484.152	237031.51	2.3102	P	0.0
4	☐	1250.000	1200.869	600005.86	5.7290	P	1.1
5	☐	2500.000	2398.593	1179416.51	11.4424	P	1.6
6	☐	5000.000	5215.227	2391903.24	24.8781	A	11.1
7	☐	10000.000	9924.672	4899892.57	47.3428	A	6.8
8	☐			5500.01	0.0525	P	1.2

$$y = 0.0048 * x + 7.2667E-004$$

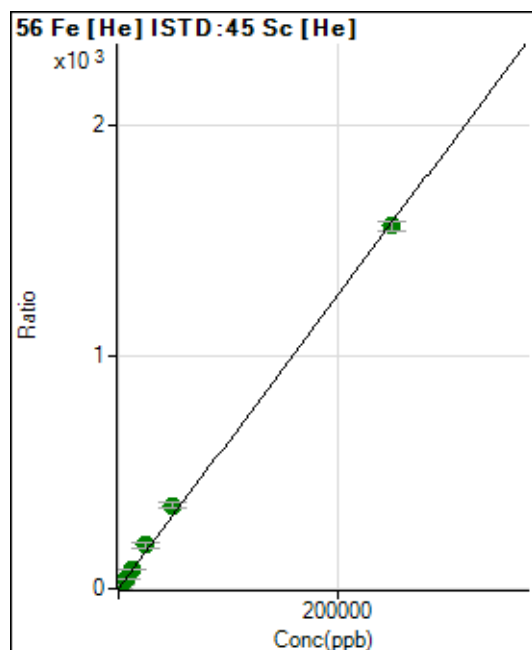
$$R = 0.9996$$

$$DL = 0.1468$$

$$BEC = 0.1523$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2448.41	0.0242	P	7.7
2	☐	50.000	46.514	33159.07	0.3177	P	0.8
3	☐	2500.000	2788.427	1807634.95	17.6197	A	1.3
4	☐	6250.000	6892.173	4556921.63	43.5151	A	2.2
5	☐	12500.000	13686.679	8905526.07	86.3897	A	0.7
6	☐	25000.000	29780.289	18076402.95	187.9434	A	10.7
7	☐	50000.000	56804.966	37103686.02	358.4742	A	6.6
8	☐	250000.00	248082.70	164080990.7	1,565.472	A	2.8

$$y = 0.0063 * x + 0.0242$$

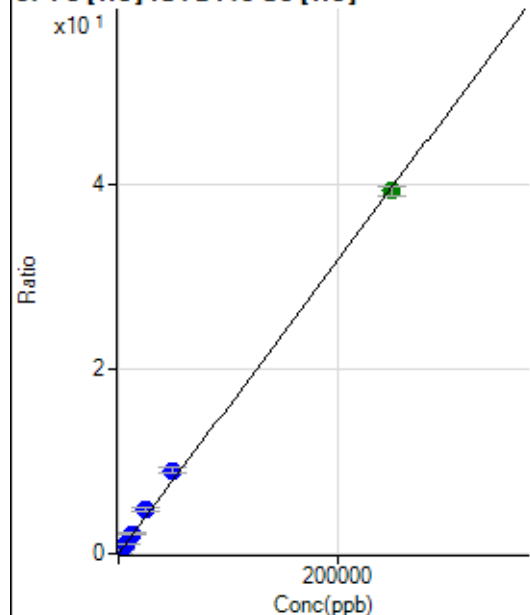
$$R = 0.9995$$

$$DL = 0.89$$

$$BEC = 3.839$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	192.59	0.0019	P	16.1
2	☐	50.000	44.200	927.83	0.0089	P	9.4
3	☐	2500.000	2760.868	45063.73	0.4392	P	1.6
4	☐	6250.000	6870.661	114169.85	1.0902	P	2.2
5	☐	12500.000	13751.759	224716.17	2.1803	P	2.2
6	☐	25000.000	29931.741	456424.35	4.7433	P	9.9
7	☐	50000.000	56880.522	932964.10	9.0121	P	6.2
8	☐	250000.00	248050.01	4118705.36	39.2945	A	2.5

$$y = 1.5841\text{E-}004 * x + 0.0019$$

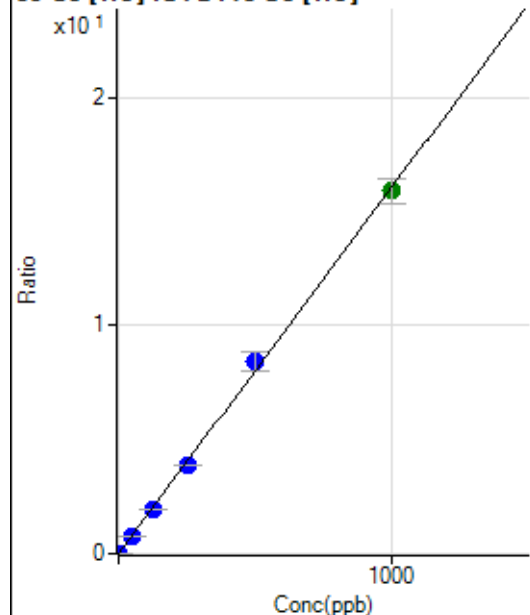
$$R = 0.9995$$

$$DL = 5.768$$

$$BEC = 11.95$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	46.67	0.0005	P	52.7
2	☐	1.000	0.763	1326.74	0.0127	P	4.4
3	☐	50.000	49.246	81126.95	0.7907	P	0.8
4	☐	125.000	120.537	202602.43	1.9346	P	1.5
5	☐	250.000	241.931	400205.14	3.8825	P	1.1
6	☐	500.000	523.364	807986.96	8.3983	P	10.1
7	☐	1000.000	990.931	1645494.12	15.9008	A	7.1
8	☐			3124.83	0.0298	P	9.6

$$y = 0.0160 * x + 4.6723\text{E-}004$$

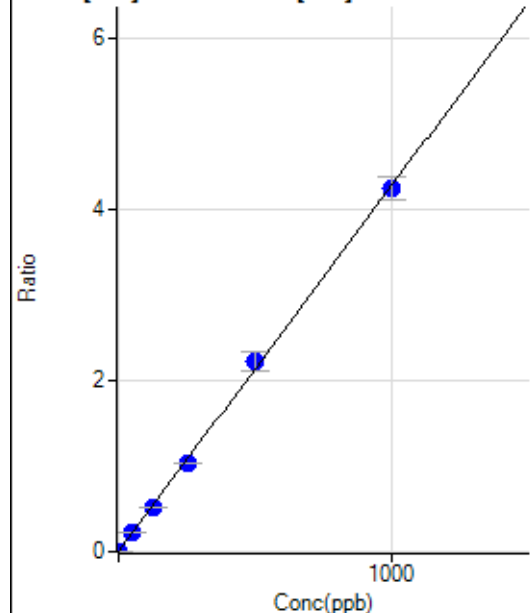
$$R = 0.9996$$

$$DL = 0.046$$

$$BEC = 0.02912$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	231.12	0.0023	P	22.3
2	☐	1.000	0.803	597.80	0.0057	P	6.9
3	☐	50.000	49.706	22016.02	0.2146	P	1.0
4	☐	125.000	121.111	54404.63	0.5195	P	1.5
5	☐	250.000	241.062	106344.58	1.0317	P	1.6
6	☐	500.000	522.290	214797.16	2.2327	P	10.1
7	☐	1000.000	991.591	438572.01	4.2368	P	6.3
8	☐			5554.48	0.0530	P	2.9

$$y = 0.0043 * x + 0.0023$$

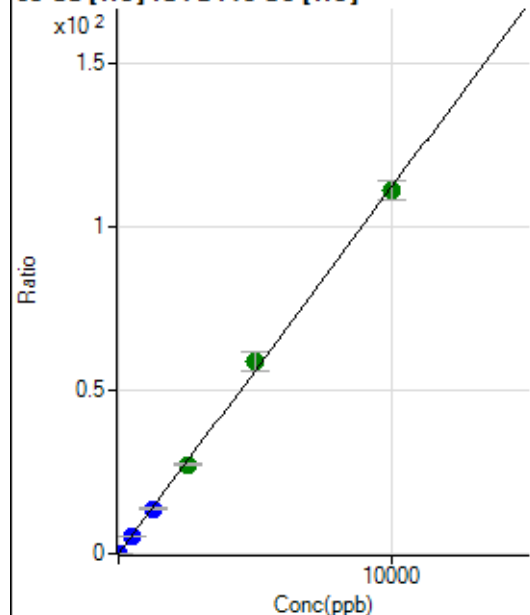
$$R = 0.9996$$

$$DL = 0.3599$$

$$BEC = 0.5381$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	665.58	0.0066	P	10.2
2	☐	2.000	1.765	2751.40	0.0264	P	2.9
3	☐	500.000	493.459	569026.60	5.5460	P	0.6
4	☐	1250.000	1230.066	1446732.37	13.8149	P	1.9
5	☐	2500.000	2439.027	2822919.02	27.3864	A	1.5
6	☐	5000.000	5237.542	5658661.86	58.8018	A	9.8
7	☐	10000.000	9899.291	11508201.63	111.1333	A	5.4
8	☐			8319.18	0.0794	P	2.6

$$y = 0.0112 * x + 0.0066$$

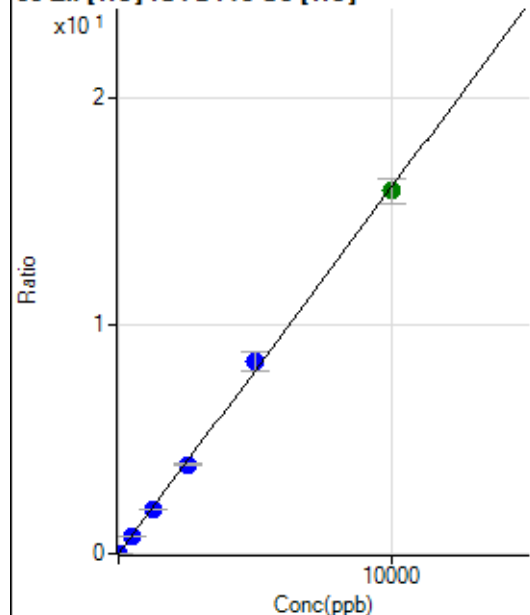
$$R = 0.9996$$

$$DL = 0.1794$$

$$BEC = 0.5839$$

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	80.00	0.0008	P	15.9
2	☐	2.000	1.628	355.56	0.0034	P	7.8
3	☐	500.000	494.188	81531.58	0.7946	P	0.8
4	☐	1250.000	1215.343	204525.55	1.9530	P	2.1
5	☐	2500.000	2426.816	401878.58	3.8990	P	1.9
6	☐	5000.000	5247.364	811062.32	8.4297	P	10.0
7	☐	10000.000	9899.237	1645837.01	15.9020	A	6.8
8	☐			5759.01	0.0550	P	4.7

$$y = 0.0016 * x + 7.9385E-004$$

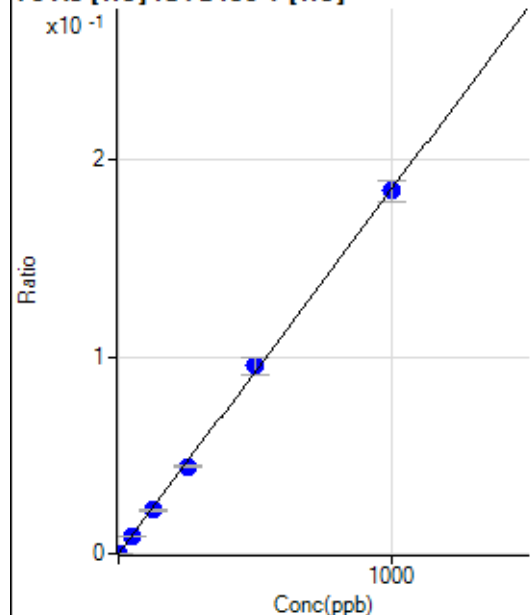
$$R = 0.9995$$

$$DL = 0.2365$$

$$BEC = 0.4942$$

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	4.00	0.0000	P	30.1
2	☐	1.000	0.741	96.34	0.0001	P	10.4
3	☐	50.000	48.230	5906.51	0.0089	P	0.9
4	☐	125.000	119.119	14895.67	0.0221	P	1.1
5	☐	250.000	238.766	29616.51	0.0442	P	1.8
6	☐	500.000	515.073	60230.50	0.0953	P	9.1
7	☐	1000.000	996.096	124174.97	0.1844	P	5.6
8	☐			43.33	0.0001	P	7.4

$$y = 1.8509E-004 * x + 6.2092E-006$$

$$R = 0.9998$$

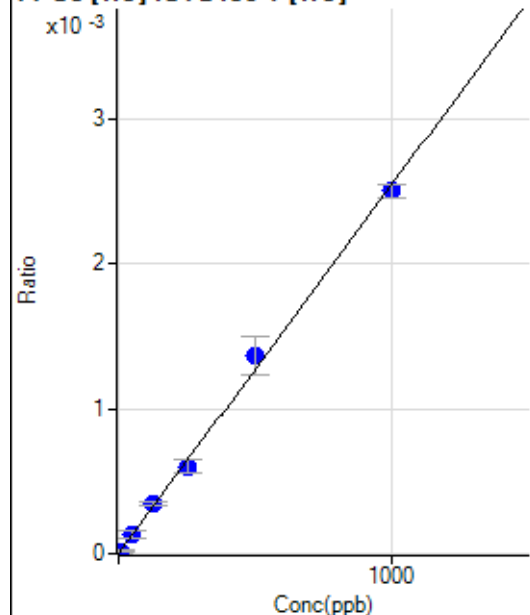
$$DL = 0.03027$$

$$BEC = 0.03355$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	7.074	13.33	0.0000	P	49.7
3	☐	50.000	51.445	87.78	0.0001	P	43.7
4	☐	125.000	133.880	231.11	0.0003	P	5.6
5	☐	250.000	235.888	403.35	0.0006	P	16.0
6	☐	500.000	536.670	857.81	0.0014	P	19.7
7	☐	1000.000	984.000	1687.90	0.0025	P	3.9
8	☐			0.00	0.0000	P	

$$y = 2.5436\text{E-}006 * x + 1.8127\text{E-}006$$

$$R = 0.9989$$

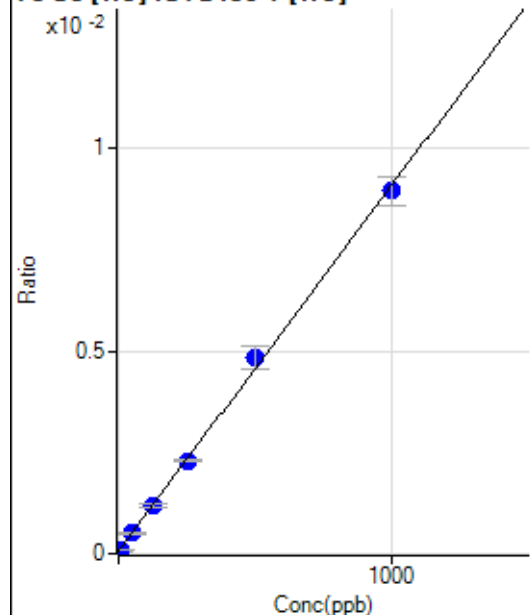
$$DL = 3.703$$

$$BEC = 0.7127$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.00	0.0001	P	22.7
2	☐	5.000	5.445	75.68	0.0001	P	1.4
3	☐	50.000	50.059	340.37	0.0005	P	7.5
4	☐	125.000	123.583	795.44	0.0012	P	5.8
5	☐	250.000	246.540	1532.91	0.0023	P	1.5
6	☐	500.000	531.349	3062.64	0.0049	P	11.9
7	☐	1000.000	985.362	6024.57	0.0090	P	7.7
8	☐			46.67	0.0001	P	10.1

$$y = 9.0207\text{E-}006 * x + 6.3513\text{E-}005$$

$$R = 0.9993$$

$$DL = 4.801$$

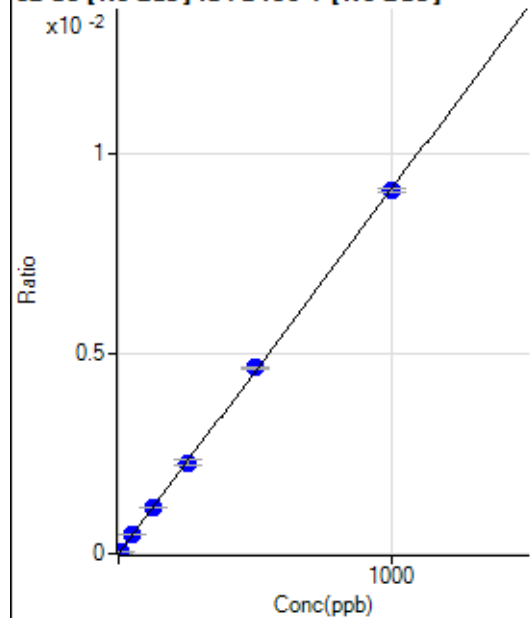
$$BEC = 7.041$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3717.69		P	3.0
2	☐			3781.08		P	2.8
3	☐			3634.21		P	4.7
4	☐			3784.43		P	7.4
5	☐			3774.40		P	7.3
6	☐			3680.94		P	3.1
7	☐			4011.38		P	5.9
8	☐			4238.33		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3.41	0.0000	P	1436.
2	☐	5.000	4.020	209.27	0.0000	P	20.9
3	☐	50.000	51.088	2672.69	0.0005	P	0.7
4	☐	125.000	125.544	6561.21	0.0011	P	1.0
5	☐	250.000	249.507	13271.06	0.0023	P	6.0
6	☐	500.000	510.308	26517.60	0.0047	P	0.9
7	☐	1000.000	994.852	53287.92	0.0091	P	1.1
8	☐			-13.91	0.0000	P	-470.

$$y = 9.1220\text{E-}006 * x + 5.7613\text{E-}007$$

$$R = 0.9999$$

$$DL = 2.721$$

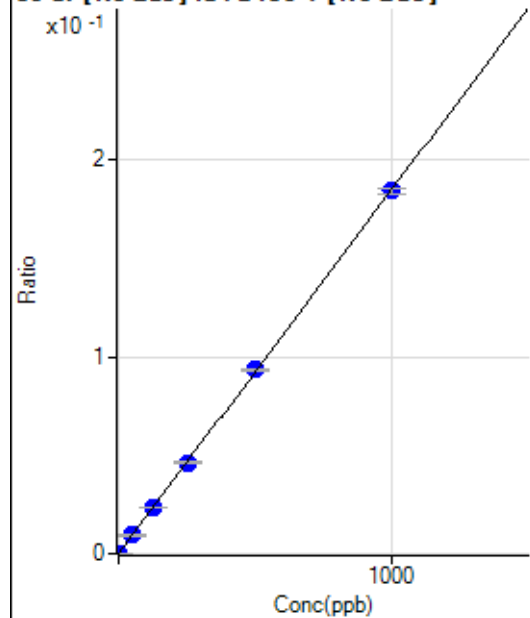
$$BEC = 0.06316$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			423.35		P	15.0
2	☐			438.90		P	8.5
3	☐			440.01		P	2.7
4	☐			438.90		P	4.6
5	☐			464.46		P	8.8
6	☐			408.90		P	2.6
7	☐			412.24		P	3.4
8	☐			504.46		P	9.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	627.80	0.0001	P	8.6
2	☐	1.000	0.981	1639.03	0.0003	P	2.0
3	☐	50.000	49.877	53341.11	0.0093	P	1.9
4	☐	125.000	125.385	133127.58	0.0232	P	1.6
5	☐	250.000	249.517	269235.28	0.0462	P	3.3
6	☐	500.000	505.333	531738.29	0.0934	P	0.4
7	☐	1000.000	997.412	1081139.94	0.1841	P	1.4
8	☐			6154.30	0.0011	P	1.9

$$y = 1.8451E-004 * x + 1.1114E-004$$

$$R = 1.0000$$

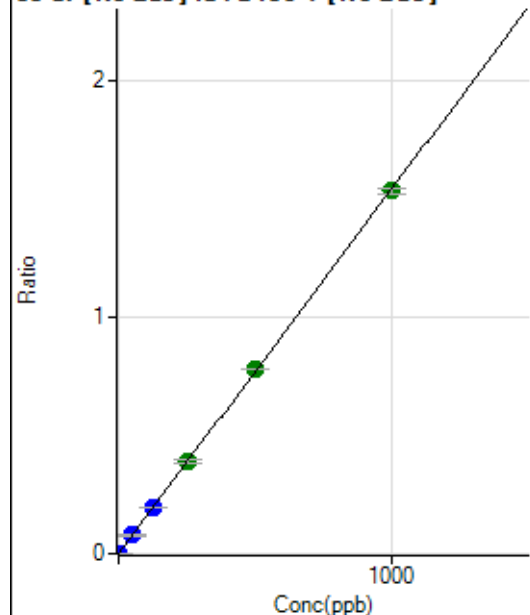
$$DL = 0.1548$$

$$BEC = 0.6023$$

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	91.67	0.0000	P	54.1
2	☐	1.000	0.836	7324.30	0.0013	P	3.6
3	☐	50.000	50.869	449498.82	0.0785	P	3.0
4	☐	125.000	127.812	1129404.37	0.1972	P	0.5
5	☐	250.000	254.893	2293838.44	0.3933	A	4.2
6	☐	500.000	505.920	4446122.15	0.7806	A	0.5
7	☐	1000.000	995.422	9018039.00	1.5358	A	1.7
8	☐			45817.48	0.0082	P	1.0

$$y = 0.0015 * x + 1.6189E-005$$

$$R = 1.0000$$

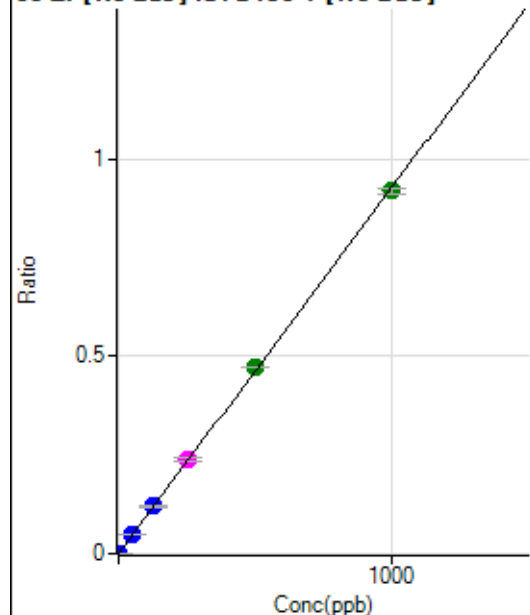
$$DL = 0.01703$$

$$BEC = 0.01049$$

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	280.56	0.0000	P	13.7
2	☐	1.000	0.825	4573.11	0.0008	P	3.7
3	☐	50.000	51.283	272704.26	0.0476	P	2.0
4	☐	125.000	129.080	685887.33	0.1198	P	1.0
5	☐	250.000	257.312	1391740.59	0.2387	M	5.2
6	☐	500.000	511.455	2702150.69	0.4744	A	0.4
7	☐	1000.000	991.870	5400930.20	0.9200	A	1.7
8	☐			1372.33	0.0002	P	4.7

$$y = 9.2745E-004 * x + 4.9666E-005$$

$$R = 0.9999$$

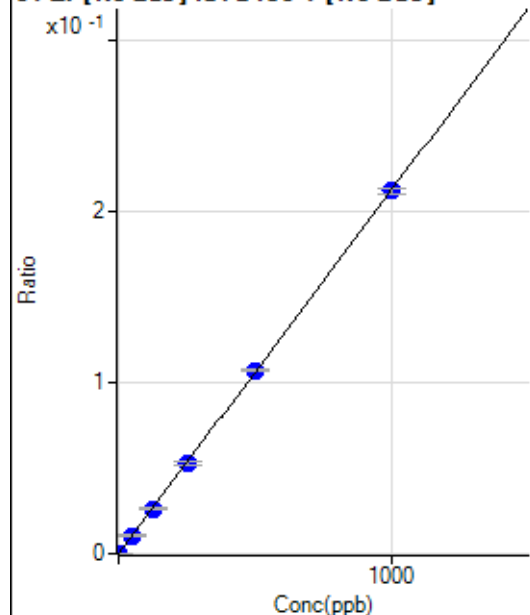
$$DL = 0.02205$$

$$BEC = 0.05355$$

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	41.67	0.0000	P	86.7
2	☐	1.000	0.879	1088.96	0.0002	P	11.7
3	☐	50.000	50.100	61031.17	0.0107	P	1.6
4	☐	125.000	124.108	151109.96	0.0264	P	0.7
5	☐	250.000	249.358	309101.71	0.0530	P	5.1
6	☐	500.000	504.798	611200.05	0.1073	P	0.7
7	☐	1000.000	997.868	1245216.93	0.2121	P	1.9
8	☐			327.79	0.0001	P	24.9

$$y = 2.1256\text{E-}004 * x + 7.3524\text{E-}006$$

$$R = 1.0000$$

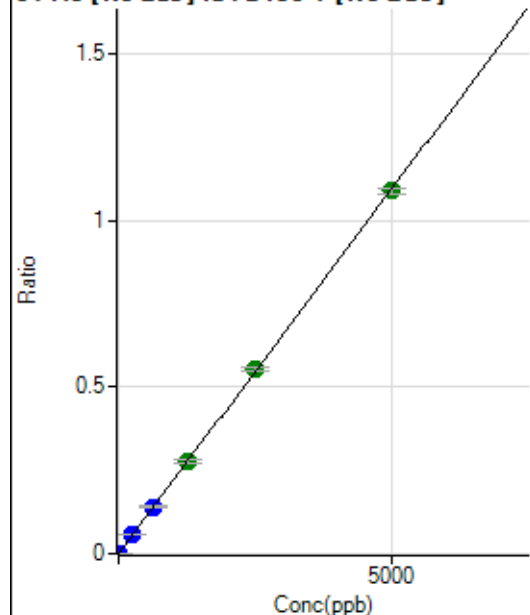
$$DL = 0.08999$$

$$BEC = 0.03459$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	100.00	0.0000	P	50.2
2	☐	5.000	4.226	5284.48	0.0009	P	3.7
3	☐	250.000	259.227	324788.85	0.0567	P	1.8
4	☐	625.000	642.967	805321.67	0.1406	P	1.4
5	☐	1250.000	1260.574	1608145.16	0.2757	A	4.0
6	☐	2500.000	2533.837	3156370.60	0.5542	A	2.1
7	☐	5000.000	4977.731	6391527.53	1.0887	A	1.7
8	☐			3358.83	0.0006	P	2.7

$$y = 2.1871\text{E-}004 * x + 1.7671\text{E-}005$$

$$R = 1.0000$$

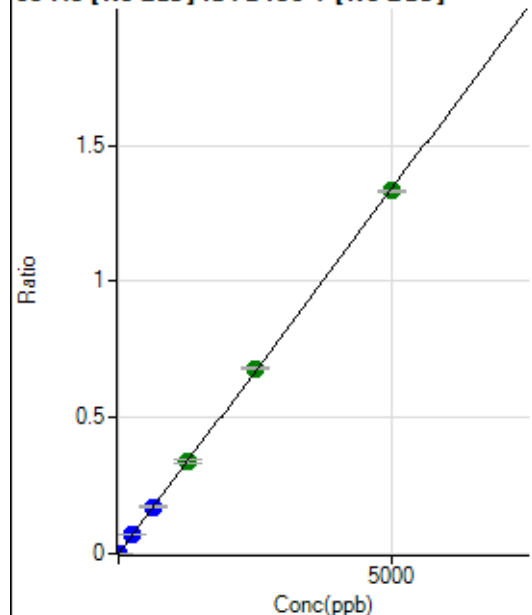
$$DL = 0.1216$$

$$BEC = 0.0808$$

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	25.00	0.0000	P	58.0
2	☐	5.000	4.232	6382.21	0.0011	P	3.1
3	☐	250.000	256.948	394086.67	0.0688	P	2.4
4	☐	625.000	643.299	986568.34	0.1723	P	1.1
5	☐	1250.000	1258.113	1964923.72	0.3369	A	4.5
6	☐	2500.000	2541.355	3876467.45	0.6806	A	1.2
7	☐	5000.000	4974.660	7822380.03	1.3322	A	0.9
8	☐			4859.32	0.0009	P	4.7

$$y = 2.6781E-004 * x + 4.4320E-006$$

$$R = 0.9999$$

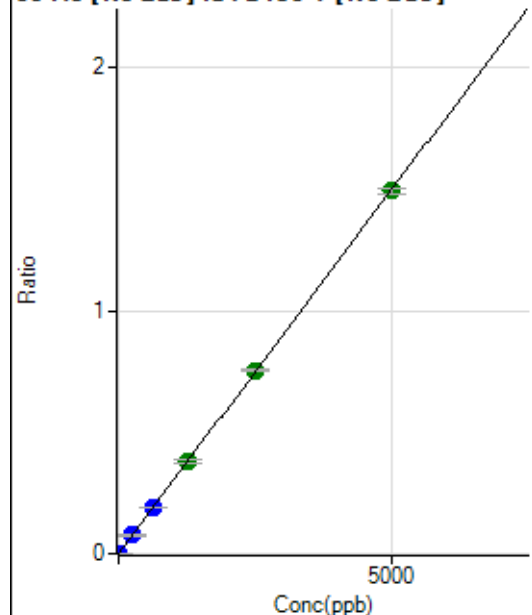
$$DL = 0.02878$$

$$BEC = 0.01655$$

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	36.11	0.0000	P	57.6
2	☐	5.000	4.142	6996.37	0.0012	P	3.3
3	☐	250.000	251.976	432191.56	0.0755	P	1.7
4	☐	625.000	639.792	1097361.15	0.1916	P	0.5
5	☐	1250.000	1263.391	2206794.10	0.3783	A	4.0
6	☐	2500.000	2519.829	4298107.60	0.7546	A	0.8
7	☐	5000.000	4984.791	8765312.44	1.4928	A	1.3
8	☐			6004.26	0.0011	P	5.2

$$y = 2.9947E-004 * x + 6.3765E-006$$

$$R = 1.0000$$

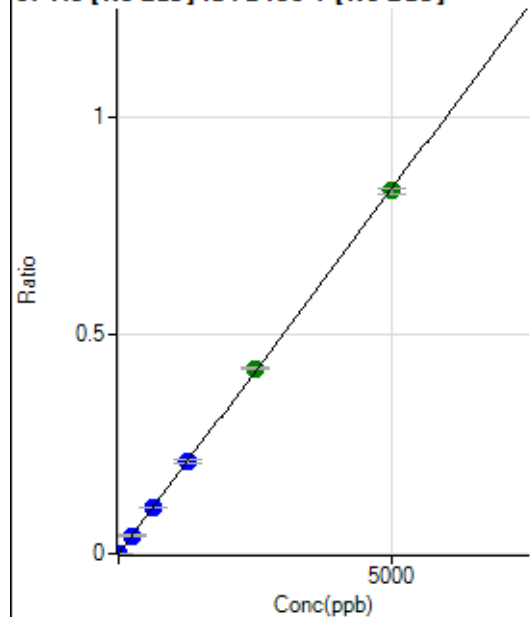
$$DL = 0.03679$$

$$BEC = 0.02129$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	69.3
2	☐	5.000	4.416	4153.51	0.0007	P	3.0
3	☐	250.000	250.218	239393.19	0.0418	P	1.7
4	☐	625.000	627.735	600538.76	0.1049	P	0.9
5	☐	1250.000	1262.410	1229570.11	0.2109	P	5.2
6	☐	2500.000	2543.499	2420153.05	0.4249	A	1.7
7	☐	5000.000	4974.796	4879412.61	0.8310	A	1.3
8	☐			2997.64	0.0005	P	6.0

$$y = 1.6704\text{E-}004 * x + 2.4572\text{E-}006$$

$$R = 0.9999$$

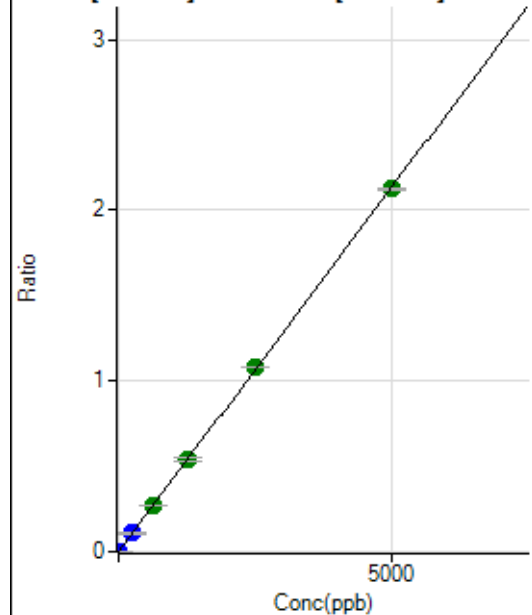
$$DL = 0.03057$$

$$BEC = 0.01471$$

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	5.55	0.0000	P	86.6
2	☐	5.000	4.177	10001.05	0.0018	P	3.2
3	☐	250.000	252.367	616571.05	0.1077	P	1.7
4	☐	625.000	628.156	1534434.31	0.2680	A	1.3
5	☐	1250.000	1259.942	3134250.72	0.5375	A	4.7
6	☐	2500.000	2531.707	6151641.32	1.0800	A	0.5
7	☐	5000.000	4981.149	12476611.39	2.1249	A	0.6
8	☐			8008.08	0.0014	P	4.4

$$y = 4.2659\text{E-}004 * x + 9.7987\text{E-}007$$

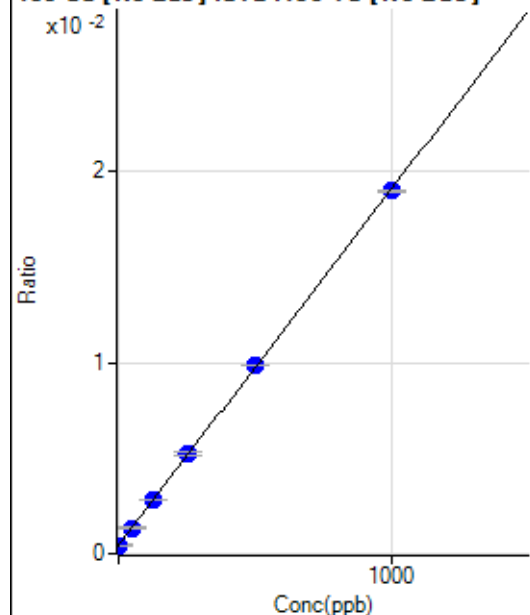
$$R = 1.0000$$

$$DL = 0.005968$$

$$BEC = 0.002297$$

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	1752.94	0.0004	P	8.1
2	☐	1.000	-0.126	1727.93	0.0004	P	2.3
3	☐	50.000	49.058	5484.59	0.0014	P	3.6
4	☐	125.000	127.391	11329.91	0.0028	P	3.1
5	☐	250.000	255.882	21650.89	0.0052	P	4.3
6	☐	500.000	506.748	40702.51	0.0099	P	0.5
7	☐	1000.000	994.905	79568.24	0.0190	P	0.4
8	☐			1702.94	0.0004	P	5.5

$$y = 1.8641\text{E-}005 * x + 4.3710\text{E-}004$$

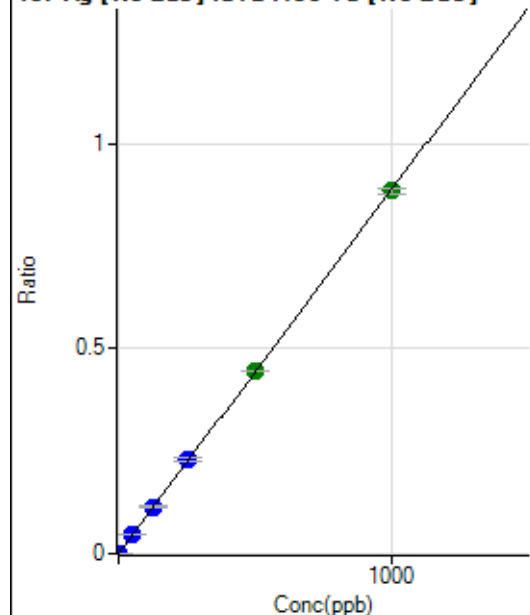
R = 0.9999

DL = 5.715

BEC = 23.45

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	72.22	0.0000	P	36.0
2	☐	1.000	0.859	3105.99	0.0008	P	1.3
3	☐	50.000	51.638	186184.35	0.0459	P	1.4
4	☐	125.000	128.911	461621.76	0.1145	P	2.4
5	☐	250.000	256.608	948094.71	0.2280	P	4.0
6	☐	500.000	501.613	1835342.21	0.4457	A	0.7
7	☐	1000.000	996.971	3712431.21	0.8858	A	1.3
8	☐			1700.15	0.0004	P	4.6

$$y = 8.8843\text{E-}004 * x + 1.8039\text{E-}005$$

R = 1.0000

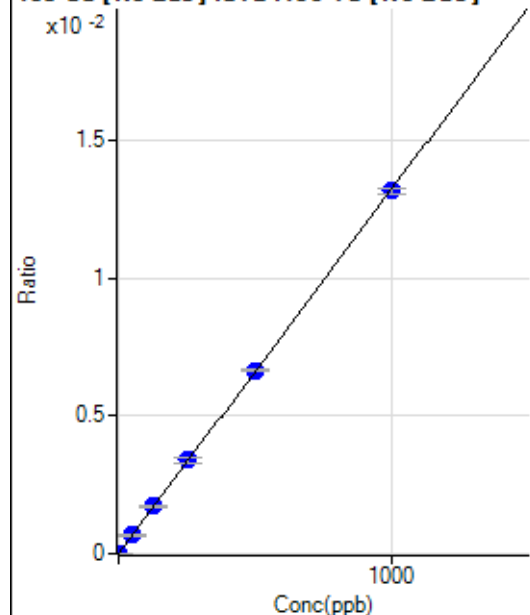
DL = 0.02193

BEC = 0.0203

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	8.33	0.0000	P	50.5
2	☐	1.000	1.245	73.61	0.0000	P	40.9
3	☐	50.000	51.263	2755.87	0.0007	P	6.3
4	☐	125.000	130.292	6944.89	0.0017	P	2.0
5	☐	250.000	256.022	14067.02	0.0034	P	4.5
6	☐	500.000	503.875	27413.44	0.0067	P	0.7
7	☐	1000.000	995.832	55136.19	0.0132	P	1.9
8	☐			70.83	0.0000	P	42.0

$$y = 1.3207\text{E-}005 * x + 2.0812\text{E-}006$$

$$R = 1.0000$$

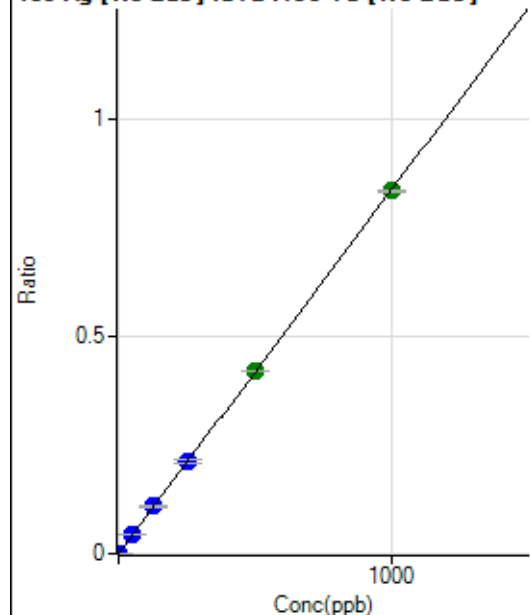
$$DL = 0.239$$

$$BEC = 0.1576$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.1
2	☐	1.000	0.855	2886.50	0.0007	P	2.2
3	☐	50.000	51.349	174585.43	0.0430	P	1.0
4	☐	125.000	129.892	438623.11	0.1088	P	2.4
5	☐	250.000	256.063	892147.81	0.2146	P	4.3
6	☐	500.000	500.990	1728661.52	0.4198	A	0.4
7	☐	1000.000	997.311	3502401.73	0.8356	A	0.6
8	☐			1744.60	0.0004	P	8.6

$$y = 8.3785\text{E-}004 * x + 9.6815\text{E-}006$$

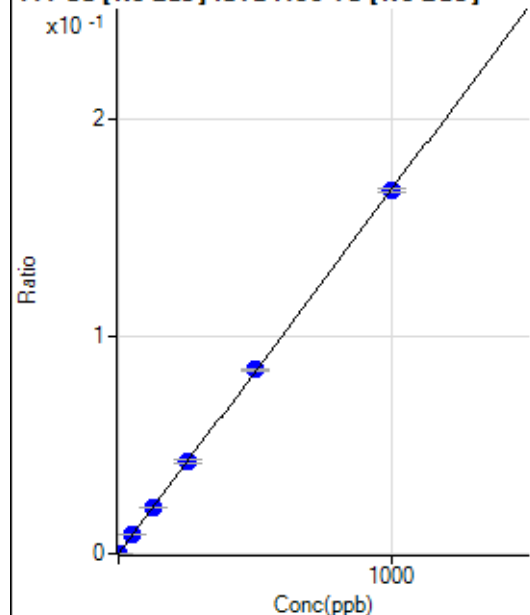
$$R = 1.0000$$

$$DL = 0.01114$$

$$BEC = 0.01156$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	183.35	0.0000	P	8.0
2	☐	1.000	0.955	815.74	0.0002	P	12.0
3	☐	50.000	50.874	34687.49	0.0086	P	1.5
4	☐	125.000	127.366	86006.08	0.0213	P	1.9
5	☐	250.000	253.610	176448.42	0.0424	P	4.9
6	☐	500.000	504.758	347682.53	0.0844	P	1.1
7	☐	1000.000	996.379	698331.38	0.1666	P	1.0
8	☐			404.05	0.0001	P	1.5

$$y = 1.6717\text{E-}004 * x + 4.5708\text{E-}005$$

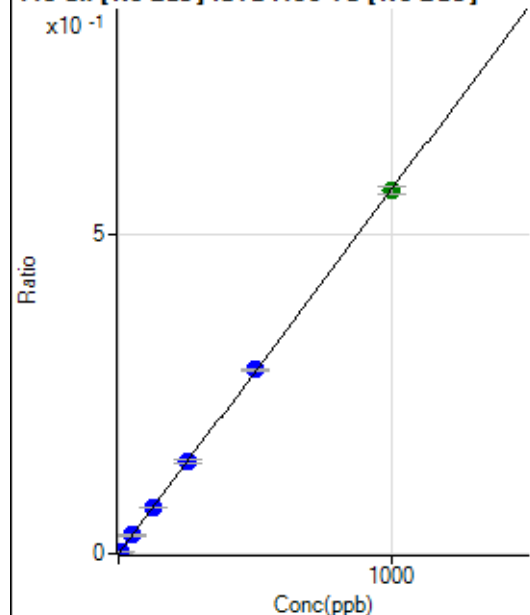
$$R = 1.0000$$

$$DL = 0.06583$$

$$BEC = 0.2734$$

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	266.68	0.0001	P	8.7
2	☐	5.000	4.020	9364.56	0.0024	P	3.1
3	☐	50.000	50.150	116157.29	0.0286	P	1.1
4	☐	125.000	127.972	294077.84	0.0730	P	1.3
5	☐	250.000	253.786	601334.17	0.1446	P	4.1
6	☐	500.000	504.405	1183381.37	0.2874	P	1.3
7	☐	1000.000	996.477	2378931.56	0.5676	A	2.1
8	☐			1522.34	0.0004	P	9.2

$$y = 5.6955\text{E-}004 * x + 6.6510\text{E-}005$$

$$R = 1.0000$$

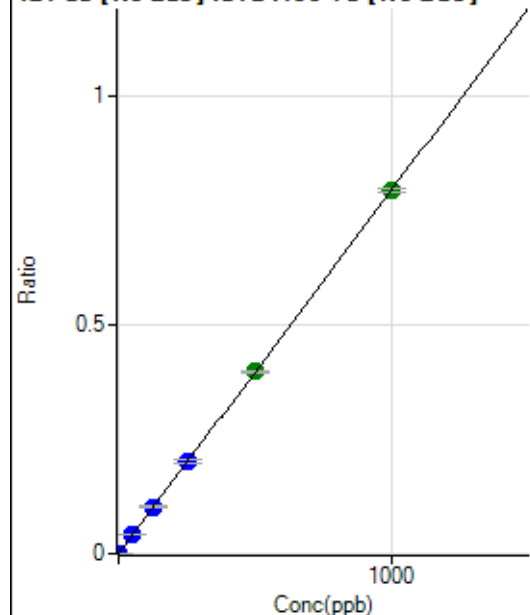
$$DL = 0.03047$$

$$BEC = 0.1168$$

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	19.45	0.0000	P	108.0
2	☐	2.000	1.719	5437.32	0.0014	P	1.7
3	☐	50.000	50.824	163516.79	0.0403	P	1.1
4	☐	125.000	128.799	411668.89	0.1021	P	1.8
5	☐	250.000	253.817	836818.92	0.2013	P	4.4
6	☐	500.000	500.978	1635890.71	0.3972	A	1.6
7	☐	1000.000	998.041	3316628.77	0.7914	A	1.2
8	☐			1900.19	0.0005	P	2.3

$$y = 7.9291\text{E-}004 * x + 4.8343\text{E-}006$$

$$R = 1.0000$$

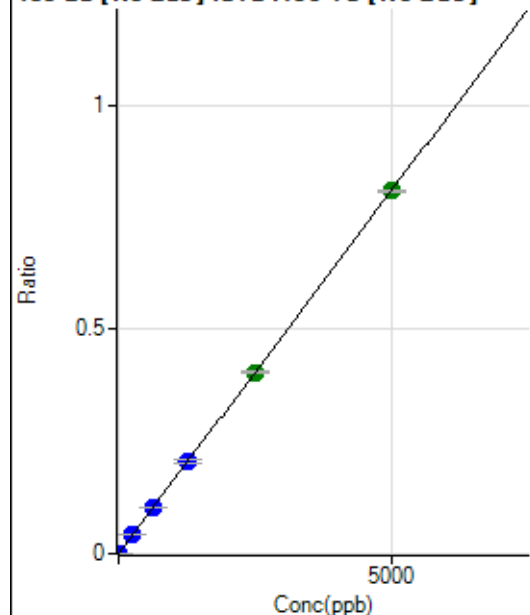
$$DL = 0.01976$$

$$BEC = 0.006097$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.34	0.0000	P	86.0
2	☐	10.000	8.835	5715.25	0.0014	P	2.4
3	☐	250.000	253.976	166787.49	0.0411	P	0.0
4	☐	625.000	636.613	415371.24	0.1030	P	0.6
5	☐	1250.000	1264.402	850860.62	0.2046	P	4.6
6	☐	2500.000	2497.123	1664269.52	0.4041	A	1.2
7	☐	5000.000	4996.190	3389145.11	0.8086	A	0.5
8	☐			5923.69	0.0015	P	2.4

$$y = 1.6183\text{E-}004 * x + 8.2860\text{E-}006$$

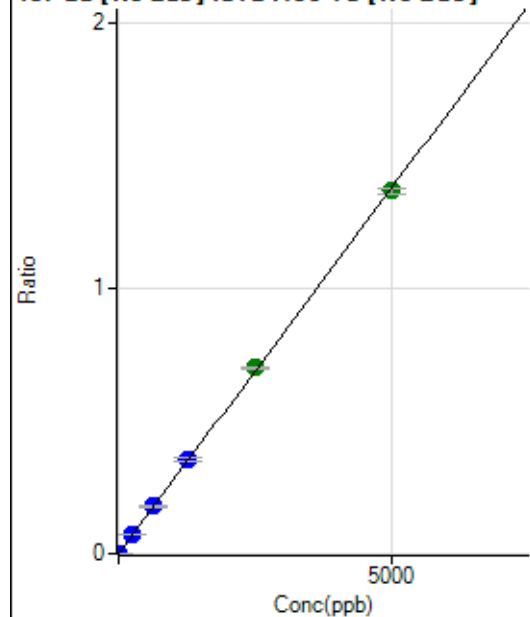
$$R = 1.0000$$

$$DL = 0.1322$$

$$BEC = 0.0512$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	27.1
2	☐	10.000	8.488	9309.00	0.0023	P	4.2
3	☐	250.000	258.204	288041.65	0.0710	P	1.0
4	☐	625.000	645.539	715455.91	0.1775	P	3.0
5	☐	1250.000	1286.198	1470336.69	0.3536	P	4.8
6	☐	2500.000	2548.691	2885871.83	0.7008	A	0.9
7	☐	5000.000	4963.630	5719887.59	1.3647	A	1.4
8	☐			10062.35	0.0025	P	2.6

$$y = 2.7494E-004 * x + 9.0134E-006$$

$$R = 0.9999$$

$$DL = 0.02665$$

$$BEC = 0.03278$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

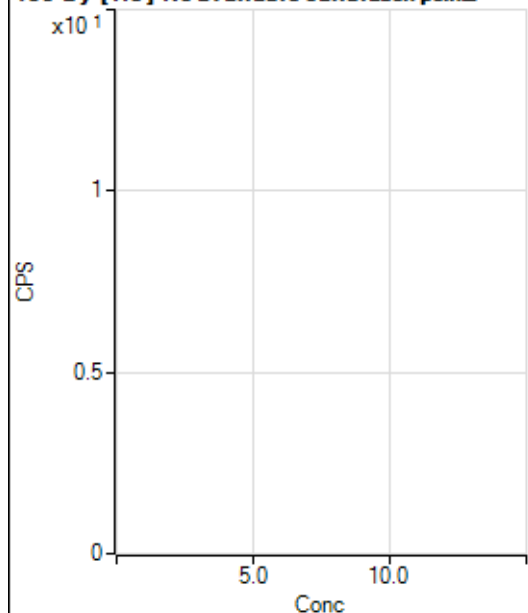
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			8.89		P	114.5
3	☐			13.33		P	50.0
4	☐			28.89		P	66.6
5	☐			64.45		P	68.9
6	☐			100.00		P	40.6
7	☐			137.78		P	23.9
8	☐			24.44		P	56.8

150 Nd [He] No available calibration points

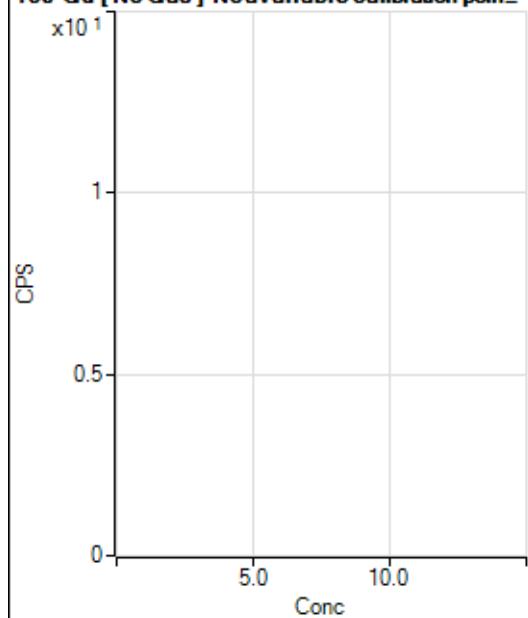
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			2.22		P	173.2
4	☐			2.22		P	173.2
5	☐			4.44		P	43.4
6	☐			6.67		P	50.0
7	☐			11.11		P	69.3
8	☐			7.78		P	107.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			16.67		P	50.0
3	☐			16.67		P	100.0
4	☐			19.44		P	65.5
5	☐			16.67		P	50.0
6	☐			47.23		P	20.4
7	☐			97.23		P	19.8
8	☐			225.01		P	16.1

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			11.11		P	45.8
6	☐			13.33		P	66.1
7	☐			24.45		P	43.8
8	☐			93.33		P	12.9

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			41.67		P	40.0
2	☐			94.45		P	35.7
3	☐			55.56		P	43.3
4	☐			50.00		P	33.3
5	☐			72.22		P	52.0
6	☐			86.12		P	44.7
7	☐			119.45		P	14.5
8	☐			205.56		P	6.2

160 Gd [He] No available calibration points

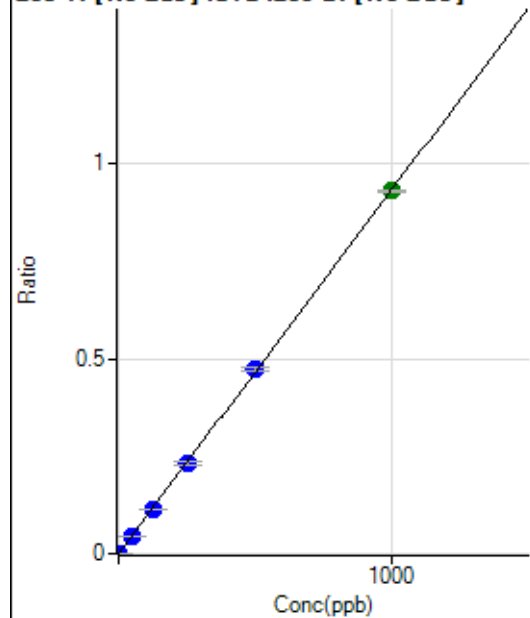
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			20.00		P	44.1
2	☐			11.11		P	34.6
3	☐			13.33		P	25.0
4	☐			15.56		P	32.7
5	☐			27.78		P	36.7
6	☐			30.00		P	22.2
7	☐			41.11		P	23.4
8	☐			117.78		P	7.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	0.0
2	☐			19.44		P	49.5
3	☐			33.33		P	50.0
4	☐			5.56		P	173.2
5	☐			27.78		P	75.5
6	☐			16.67		P	50.0
7	☐			22.22		P	78.1
8	☐			38.89		P	32.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	124.9
2	☐			11.11		P	17.3
3	☐			11.11		P	45.8
4	☐			10.00		P	33.3
5	☐			10.00		P	66.7
6	☐			10.00		P	57.7
7	☐			14.44		P	13.4
8	☐			16.67		P	20.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44.45	0.0000	P	65.1
2	☐	1.000	0.821	1664.05	0.0008	P	8.0
3	☐	50.000	49.490	99356.55	0.0462	P	1.2
4	☐	125.000	122.593	248880.18	0.1144	P	1.5
5	☐	250.000	246.896	508135.25	0.2305	P	5.1
6	☐	500.000	506.346	1024477.41	0.4726	P	1.8
7	☐	1000.000	997.930	2054804.19	0.9314	A	0.8
8	☐			244.46	0.0001	P	15.5

$$y = 9.3335E-004 * x + 2.1024E-005$$

$$R = 1.0000$$

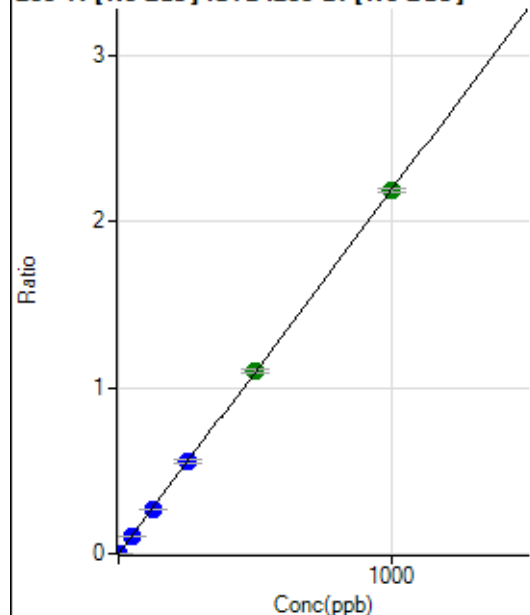
$$DL = 0.044$$

$$BEC = 0.02253$$

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	41.67	0.0000	P	54.3
2	☐	1.000	0.829	3875.68	0.0018	P	3.1
3	☐	50.000	49.192	231521.82	0.1077	P	0.3
4	☐	125.000	123.029	585659.51	0.2693	P	1.4
5	☐	250.000	253.032	1220975.59	0.5538	P	5.4
6	☐	500.000	503.219	2387436.41	1.1014	A	2.2
7	☐	1000.000	997.920	4817454.79	2.1841	A	1.1
8	☐			700.04	0.0003	P	22.0

$$y = 0.0022 * x + 1.9830E-005$$

$$R = 1.0000$$

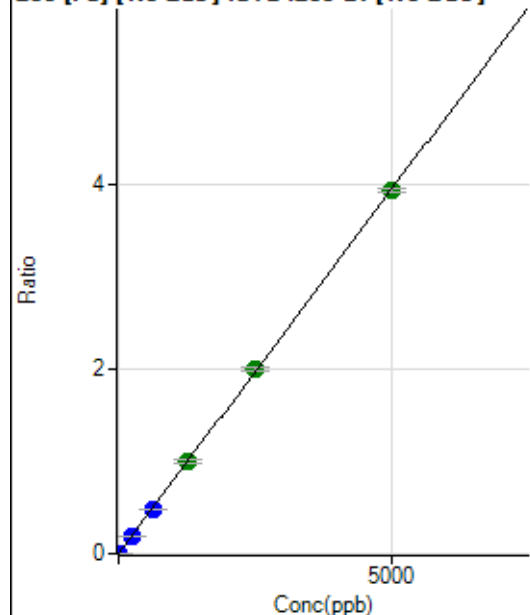
$$DL = 0.01476$$

$$BEC = 0.00906$$

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	157.41	0.0001	P	12.0
2	☐	1.000	0.780	1457.52	0.0007	P	1.0
3	☐	250.000	244.103	413998.92	0.1926	P	0.9
4	☐	625.000	612.121	1049775.46	0.4827	P	1.9
5	☐	1250.000	1268.436	2205267.25	1.0003	A	5.2
6	☐	2500.000	2533.872	4331189.57	1.9981	A	2.8
7	☐	5000.000	4980.360	8663515.47	3.9272	A	0.9
8	☐			7620.87	0.0037	P	3.0

$$y = 7.8853E-004 * x + 7.4550E-005$$

$$R = 0.9999$$

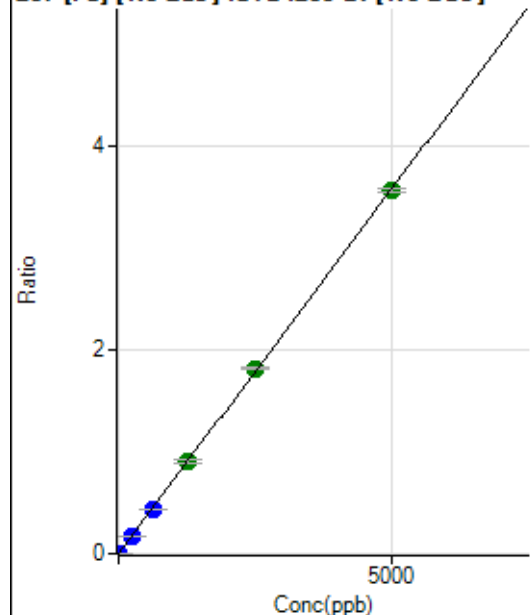
$$DL = 0.03409$$

$$BEC = 0.09454$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	124.08	0.0001	P	21.1
2	☐	1.000	0.659	1118.59	0.0005	P	12.0
3	☐	250.000	244.478	375339.06	0.1746	P	1.4
4	☐	625.000	607.025	942049.67	0.4334	P	3.2
5	☐	1250.000	1277.472	2011309.67	0.9120	A	4.2
6	☐	2500.000	2536.357	3925153.62	1.8107	A	0.9
7	☐	5000.000	4977.476	7838729.17	3.5533	A	1.1
8	☐			6583.27	0.0032	P	0.7

$$y = 7.1386\text{E-}004 * x + 5.8815\text{E-}005$$

$$R = 0.9999$$

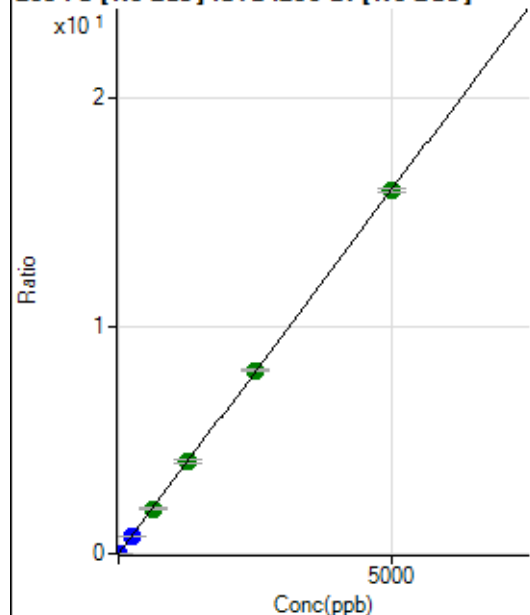
$$DL = 0.05211$$

$$BEC = 0.08239$$

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	518.53	0.0002	P	10.9
2	☐	1.000	0.756	5626.52	0.0027	P	2.5
3	☐	250.000	243.741	1675909.77	0.7795	P	0.7
4	☐	625.000	615.224	4277281.30	1.9671	A	2.2
5	☐	1250.000	1271.490	8964007.99	4.0652	A	4.6
6	☐	2500.000	2521.188	17472904.38	8.0605	A	1.8
7	☐	5000.000	4985.569	35162280.93	15.9392	A	1.0
8	☐			30457.12	0.0149	P	1.6

$$y = 0.0032 * x + 2.4568\text{E-}004$$

$$R = 1.0000$$

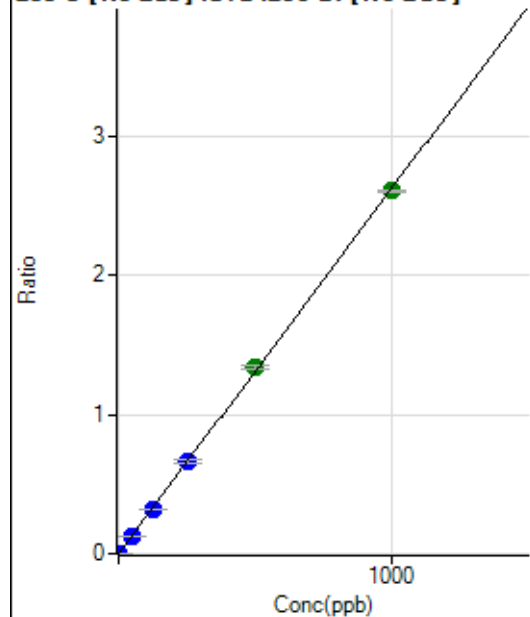
$$DL = 0.02519$$

$$BEC = 0.07685$$

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	11.11	0.0000	P	44.8
2	☐	1.000	0.793	4406.44	0.0021	P	1.4
3	☐	50.000	49.357	278292.58	0.1294	P	0.5
4	☐	125.000	122.825	700547.81	0.3221	P	1.1
5	☐	250.000	252.539	1460229.67	0.6623	P	4.8
6	☐	500.000	510.863	2903854.34	1.3397	A	2.6
7	☐	1000.000	994.238	5751001.04	2.6073	A	0.2
8	☐			497.25	0.0002	P	11.1

$$y = 0.0026 * x + 5.2826E-006$$

$$R = 0.9999$$

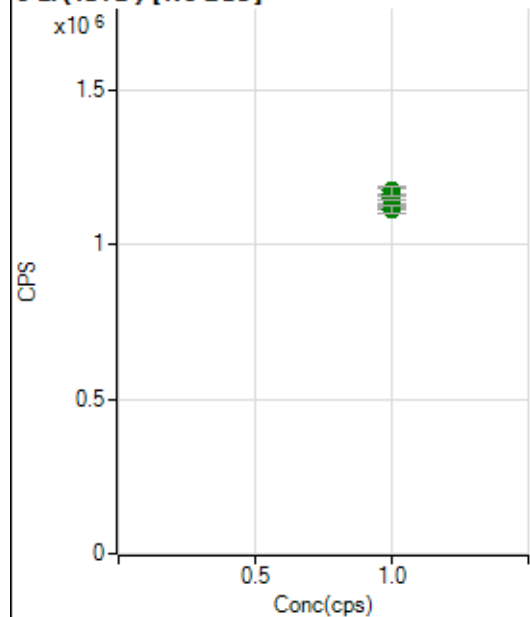
$$DL = 0.002705$$

$$BEC = 0.002014$$

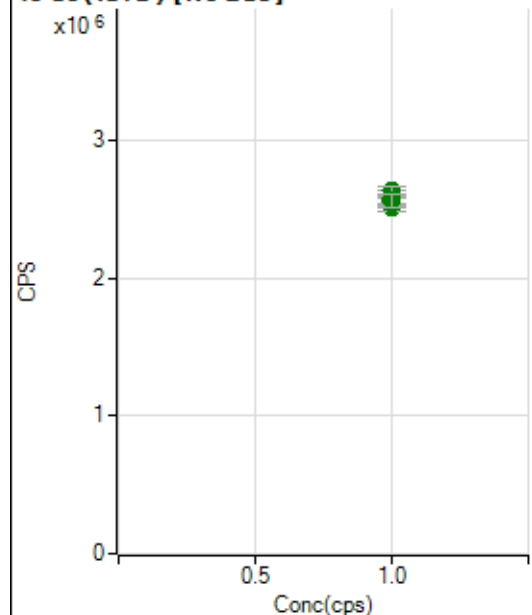
Weight: <None>

Min Conc: 0

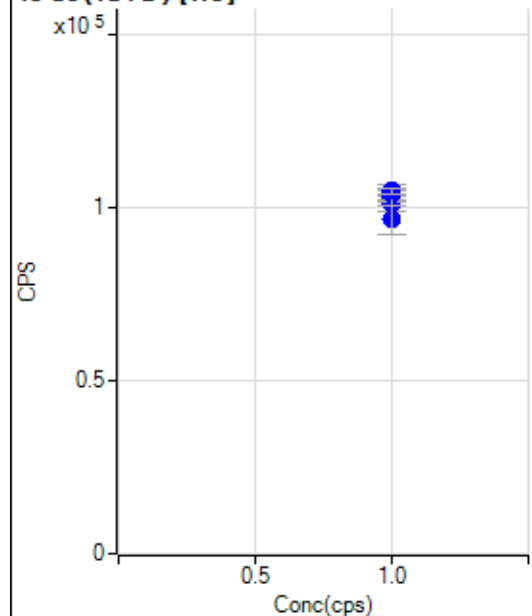
6 Li (ISTD) [No Gas]



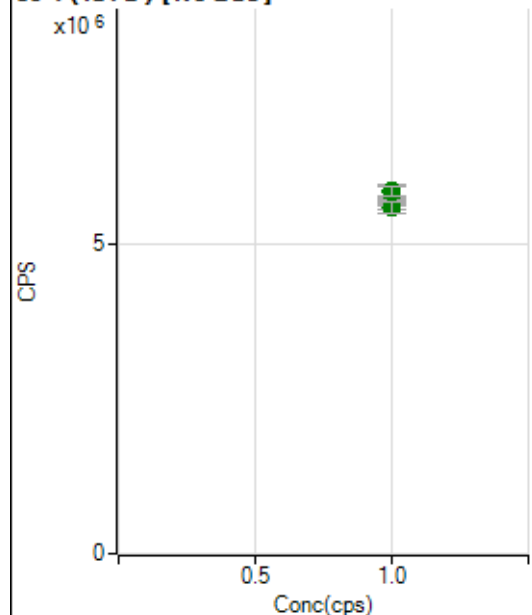
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1121830.04		A	2.1
2	☐	1.000		1121628.50		A	1.1
3	☐	1.000		1148956.70		A	1.1
4	☐	1.000		1143510.47		A	3.4
5	☐	1.000		1161655.65		A	3.1
6	☐	1.000		1149179.73		A	0.9
7	☐	1.000		1172057.76		A	2.3
8	☐	1.000		1110896.18		A	2.5

45 Sc (ISTD) [No Gas]

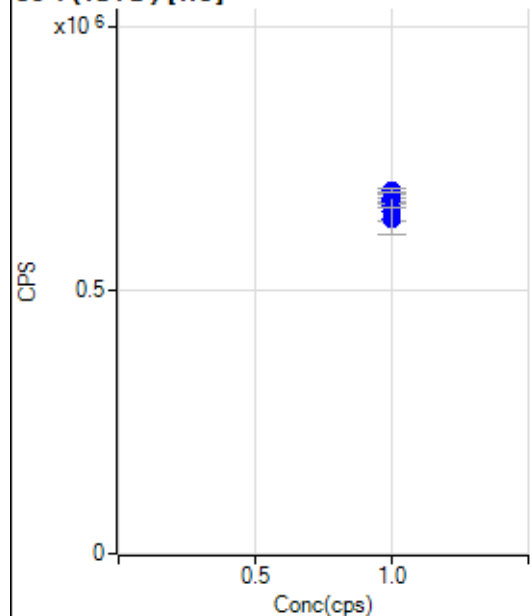
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2515086.06		A	0.4
2	☐	1.000		2506504.22		A	1.8
3	☐	1.000		2539713.24		A	0.3
4	☐	1.000		2547878.61		A	3.1
5	☐	1.000		2577526.71		A	4.4
6	☐	1.000		2597123.66		A	0.3
7	☐	1.000		2631956.44		A	3.0
8	☐	1.000		2562716.68		A	3.9

45 Sc (ISTD) [He]

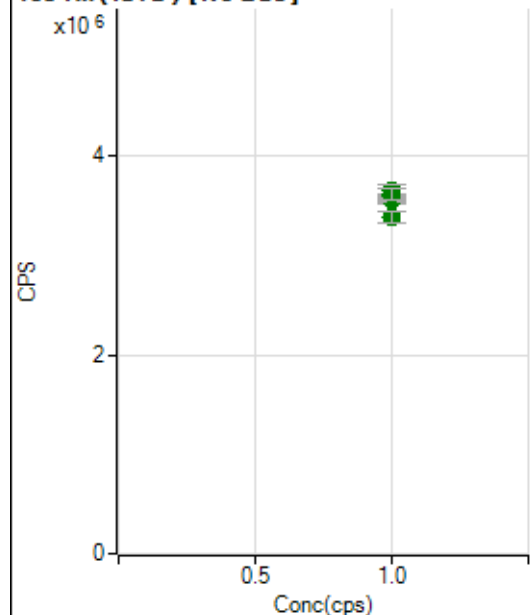
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		101271.63		P	4.8
2	☐	1.000		104364.23		P	1.0
3	☐	1.000		102601.87		P	1.2
4	☐	1.000		104741.34		P	1.4
5	☐	1.000		103090.95		P	1.5
6	☐	1.000		96839.67		P	9.7
7	☐	1.000		103772.13		P	5.8
8	☐	1.000		104846.63		P	1.8

89 Y (ISTD) [No Gas]

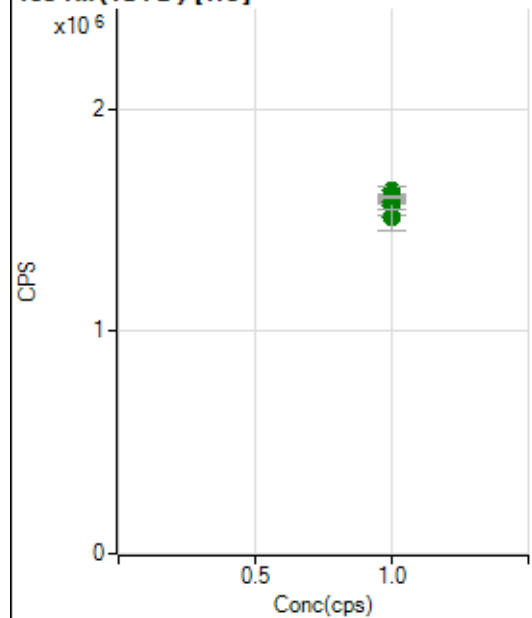
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5650618.94		A	0.6
2	☐	1.000		5610698.04		A	1.3
3	☐	1.000		5728202.56		A	1.8
4	☐	1.000		5726969.84		A	1.5
5	☐	1.000		5839030.89		A	4.2
6	☐	1.000		5695988.66		A	0.6
7	☐	1.000		5871980.95		A	2.4
8	☐	1.000		5609596.30		A	3.1

89 Y (ISTD) [He]

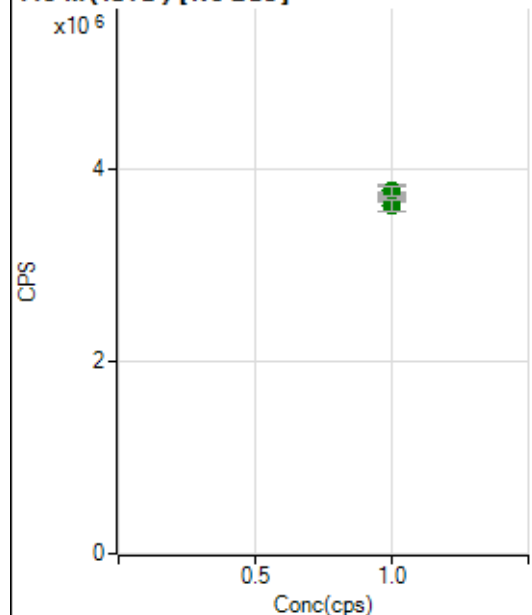
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		650673.40		P	5.2
2	☐	1.000		671952.95		P	0.8
3	☐	1.000		661135.89		P	1.4
4	☐	1.000		675501.47		P	1.9
5	☐	1.000		670162.27		P	1.3
6	☐	1.000		635295.70		P	9.3
7	☐	1.000		674843.38		P	5.4
8	☐	1.000		689739.81		P	0.9

103 Rh (ISTD) [No Gas]

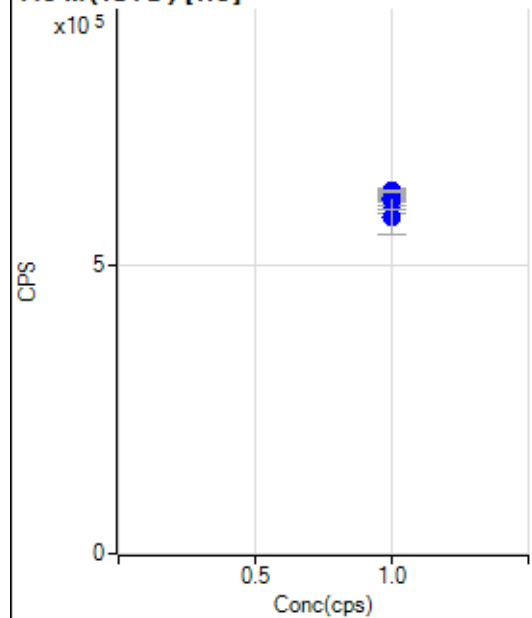
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3556187.45		A	1.5
2	☐	1.000		3579114.45		A	1.1
3	☐	1.000		3600686.28		A	0.9
4	☐	1.000		3592187.50		A	1.1
5	☐	1.000		3651859.93		A	4.0
6	☐	1.000		3561292.31		A	1.5
7	☐	1.000		3616277.86		A	3.3
8	☐	1.000		3392179.76		A	3.3

103 Rh (ISTD) [He]

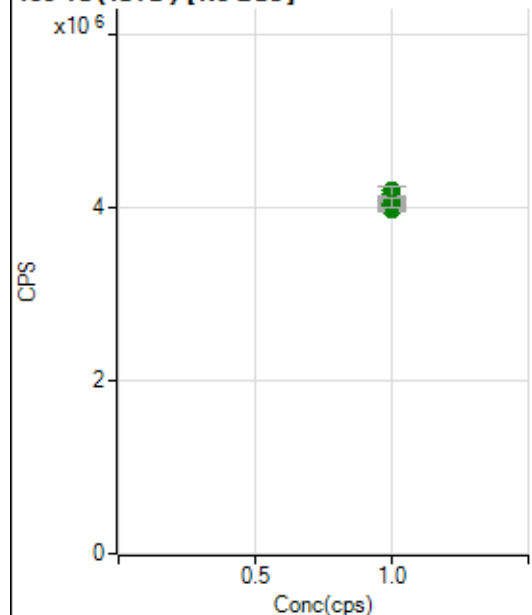
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1565312.46		A	5.0
2	☐	1.000		1607351.10		A	1.1
3	☐	1.000		1582847.15		A	1.5
4	☐	1.000		1631650.11		A	2.4
5	☐	1.000		1612995.18		A	0.9
6	☐	1.000		1517581.33		A	8.1
7	☐	1.000		1582404.89		A	4.5
8	☐	1.000		1607607.46		A	0.5

115 In (ISTD) [No Gas]

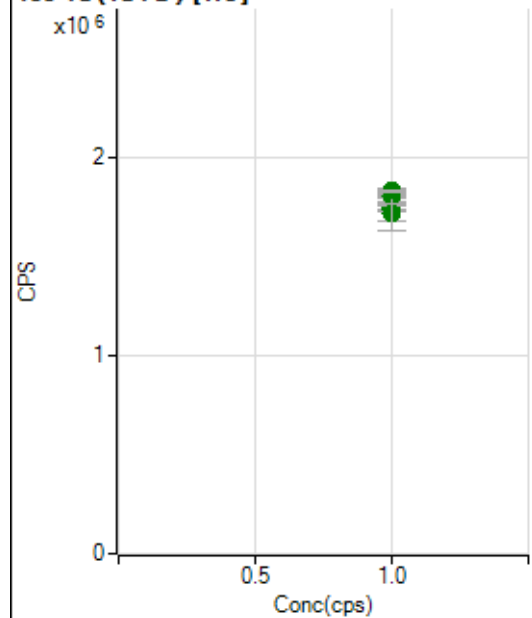
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3675990.68		A	1.1
2	☐	1.000		3671833.19		A	0.8
3	☐	1.000		3748924.41		A	0.4
4	☐	1.000		3707069.96		A	2.4
5	☐	1.000		3773324.77		A	3.5
6	☐	1.000		3721381.94		A	0.8
7	☐	1.000		3774700.87		A	2.6
8	☐	1.000		3619236.62		A	2.9

115 In (ISTD) [He]

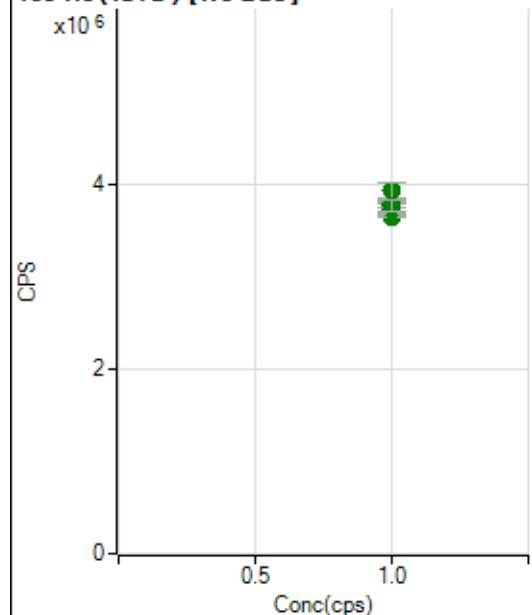
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		605664.46		P	5.0
2	☐	1.000		620067.84		P	0.6
3	☐	1.000		610425.86		P	1.6
4	☐	1.000		627832.54		P	1.1
5	☐	1.000		618960.23		P	1.5
6	☐	1.000		582771.95		P	9.4
7	☐	1.000		615077.48		P	6.0
8	☐	1.000		629762.02		P	0.6

159 Tb (ISTD) [No Gas]

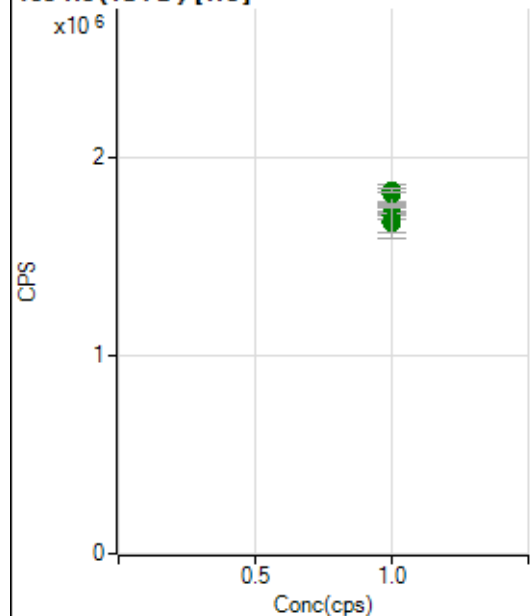
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4010685.22		A	0.7
2	☐	1.000		3974269.77		A	0.5
3	☐	1.000		4057078.90		A	0.8
4	☐	1.000		4031480.36		A	2.6
5	☐	1.000		4162743.55		A	4.0
6	☐	1.000		4118218.51		A	0.3
7	☐	1.000		4191750.04		A	2.4
8	☐	1.000		4048693.83		A	3.0

159 Tb (ISTD) [He]

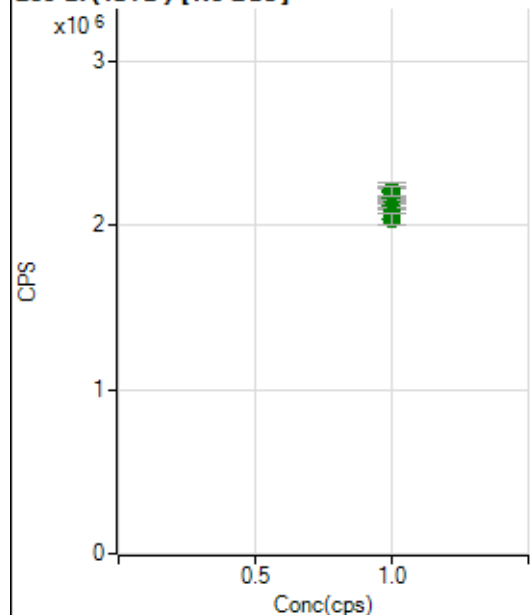
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1720564.78		A	4.3
2	☐	1.000		1751787.14		A	1.0
3	☐	1.000		1745162.37		A	1.4
4	☐	1.000		1805155.06		A	0.8
5	☐	1.000		1795123.85		A	2.2
6	☐	1.000		1716987.34		A	9.2
7	☐	1.000		1807896.36		A	3.9
8	☐	1.000		1834337.41		A	0.5

165 Ho (ISTD) [No Gas]

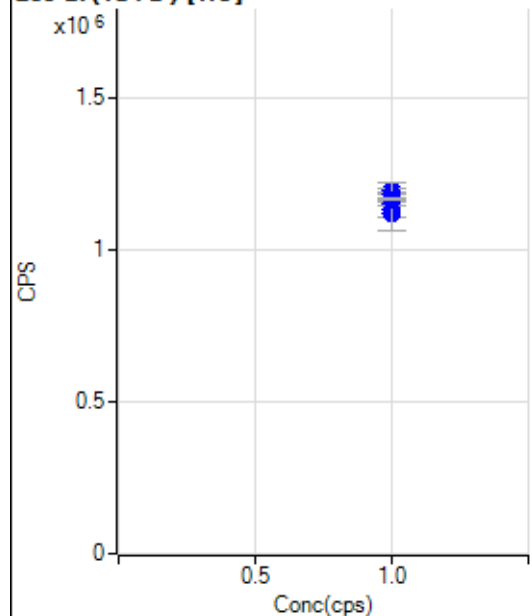
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3662233.93		A	1.6
2	☐	1.000		3642211.11		A	0.5
3	☐	1.000		3721013.71		A	0.7
4	☐	1.000		3727741.70		A	2.4
5	☐	1.000		3786939.10		A	2.7
6	☐	1.000		3811333.77		A	0.4
7	☐	1.000		3921539.32		A	4.1
8	☐	1.000		3763277.99		A	2.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1668303.74		A	5.6
2	☐	1.000		1717573.64		A	1.6
3	☐	1.000		1703335.50		A	1.5
4	☐	1.000		1756402.61		A	1.1
5	☐	1.000		1759084.56		A	1.6
6	☐	1.000		1674562.13		A	10.3
7	☐	1.000		1817805.46		A	5.5
8	☐	1.000		1830927.11		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2111082.52		A	1.3
2	☐	1.000		2113914.85		A	1.1
3	☐	1.000		2150093.06		A	0.9
4	☐	1.000		2175595.30		A	4.1
5	☐	1.000		2208328.39		A	4.8
6	☐	1.000		2167869.71		A	0.8
7	☐	1.000		2205814.05		A	2.2
8	☐	1.000		2040698.54		A	3.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1135186.40		P	5.1
2	☐	1.000		1165360.01		P	1.3
3	☐	1.000		1156545.69		P	1.2
4	☐	1.000		1186967.43		P	0.7
5	☐	1.000		1195718.19		P	1.1
6	☐	1.000		1121074.76		P	9.7
7	☐	1.000		1185437.95		P	6.0
8	☐	1.000		1168121.39		P	0.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8120120IMS.b
Acq. Date-Time 2020-12-01 10:17:12
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		2828	28281.36			1.834	5.000
24		37204	372041.98			1.548	5.000
25		4968	49682.99			1.413	5.000
26		5722	57224.38			0.913	5.000
59		18492	184918.20			1.040	5.000
113		2821	28208.42			1.560	5.000
115		9710	97101.25			3.458	5.000
206		2837	28370.67			0.349	5.000
207		2354	23540.94			0.790	5.000
208		5746	57462.26			1.233	5.000
220		1	6.30			38.310	

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

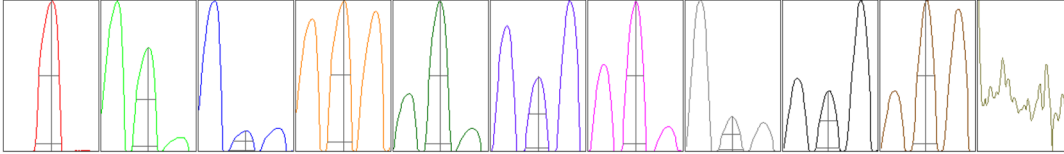
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2838	2767	2889	2863	2783
24	37081	36488	37779	37802	36871
25	4953	4894	5023	5058	4914
26	5738	5655	5760	5777	5682
59	18542	18178	18651	18634	18453
113	2834	2769	2884	2826	2792
115	9950	9288	10018	9884	9410
206	2829	2824	2845	2843	2844
207	2333	2343	2382	2361	2351
208	5708	5651	5816	5815	5742

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	0	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4757.16	9.05	8.90 - 9.10	
24	63585.02	24.00	23.90 - 24.10	
25	8423.84	25.00	24.90 - 25.10	
26	9597.64	26.05	25.90 - 26.10	
59	33634.89	59.00	58.90 - 59.10	
113	5403.34	113.05	112.90 - 113.10	
115	18906.00	115.05	114.90 - 115.10	
206	5431.29	206.00	205.90 - 206.10	
207	4480.75	206.95	206.90 - 207.10	
208	11201.02	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.820	0.900	
24	0.62	0.787	0.900	
25	0.63	0.804	0.900	
26	0.64	0.787	0.900	
59	0.58	0.808	0.900	
113	0.54	0.733	0.900	
115	0.53	0.735	0.900	
206	0.55	0.773	0.900	
207	0.54	0.743	0.900	
208	0.54	0.762	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.47 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	14.6 V
Extract 2	-230.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.2 mm
---------	--------	---------	---------

EM

Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4258	42580.56			1.442	
89		10392	103919.53			1.750	
205		6894	68942.30			1.330	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4166	4233	4273	4297	4322
89	10100	10461	10335	10532	10531
205	6775	6920	6829	6942	7005

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	3.4 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-230.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2180 V	Pulse HV	1331 V