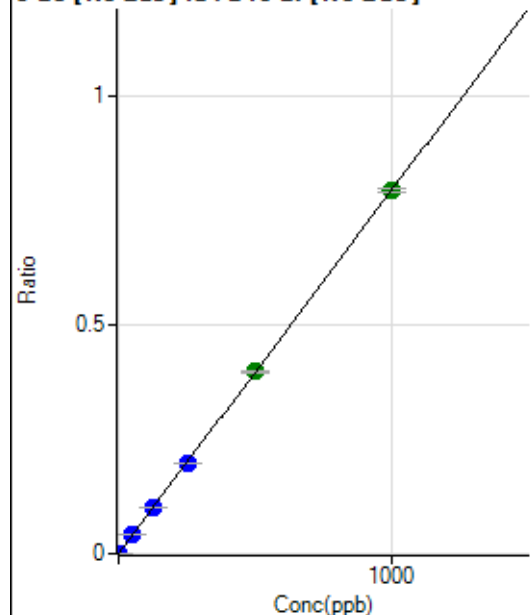


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7050222 MS.b\
Analysis File: P7050222 MS.batch.bin
DA Date-Time: 2022-05-02 18:20:12
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-05-02 11:00:16
2	005CAL.S.d	S02	2022-05-02 11:06:01
3	006CAL.S.d	S03	2022-05-02 11:08:54
4	007CAL.S.d	S04	2022-05-02 11:11:39
5	008CAL.S.d	S05	2022-05-02 11:14:25
6	009CAL.S.d	S06	2022-05-02 11:17:10
7	010CAL.S.d	S07	2022-05-02 11:19:57
8	011CAL.S.d	S08	2022-05-02 11:22:42

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	43.33	0.0000	P	19.6
2	☐	1.000	1.048	2773.61	0.0008	P	4.6
3	☐	50.000	50.893	131702.88	0.0405	P	0.9
4	☐	125.000	127.975	328554.17	0.1017	P	1.9
5	☐	250.000	248.724	614908.41	0.1977	P	1.9
6	☐	500.000	502.075	1190384.91	0.3991	A	1.1
7	☐	1000.000	998.865	2352142.99	0.7940	A	1.1
8	☐			582.24	0.0002	P	11.6

$$y = 7.9488\text{E-}004 * x + 1.3715\text{E-}005$$

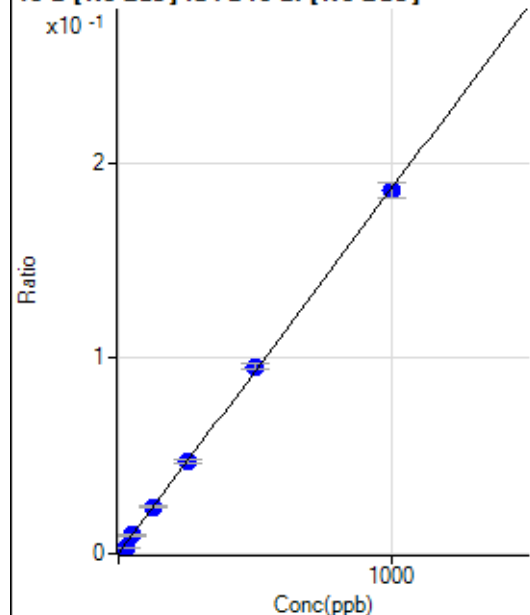
$$R = 1.0000$$

$$DL = 0.01012$$

$$BEC = 0.01725$$

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	369.46	0.0001	P	17.1
2	☐	25.000	14.527	9266.87	0.0028	P	6.2
3	☐	50.000	50.025	30767.09	0.0095	P	6.0
4	☐	125.000	126.935	76879.52	0.0238	P	4.2
5	☐	250.000	252.031	146655.13	0.0472	P	3.5
6	☐	500.000	511.591	285106.99	0.0956	P	3.1
7	☐	1000.000	993.715	549782.84	0.1856	P	4.2
8	☐			17746.67	0.0063	P	6.7

$$y = 1.8666\text{E-}004 * x + 1.1691\text{E-}004$$

$$R = 0.9998$$

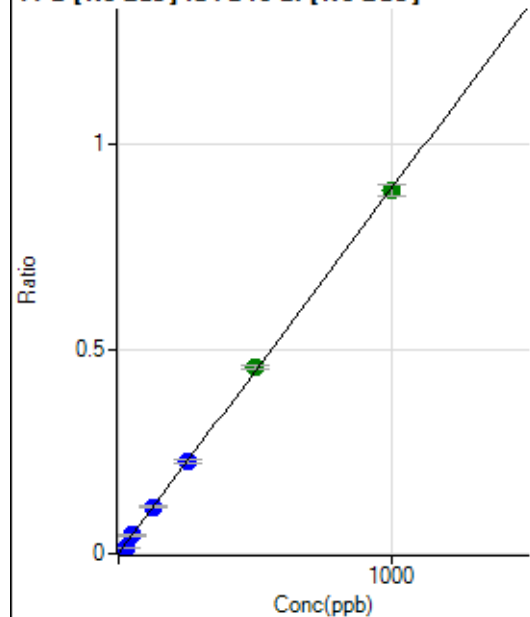
$$DL = 0.3222$$

$$BEC = 0.6263$$

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	1669.58	0.0005	P	7.2
2	☐	25.000	14.705	44656.58	0.0136	P	4.4
3	☐	50.000	50.325	147615.70	0.0454	P	5.0
4	☐	125.000	127.090	367359.62	0.1138	P	3.0
5	☐	250.000	253.609	704193.98	0.2265	P	4.5
6	☐	500.000	510.565	1357931.48	0.4554	A	3.0
7	☐	1000.000	993.795	2624203.29	0.8859	A	3.3
8	☐			84976.84	0.0301	P	11.0

$$y = 8.9090E-004 * x + 5.2922E-004$$

$$R = 0.9998$$

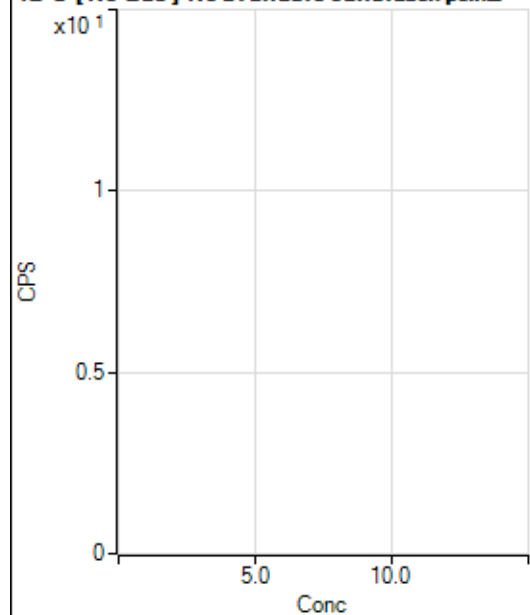
$$DL = 0.1277$$

$$BEC = 0.594$$

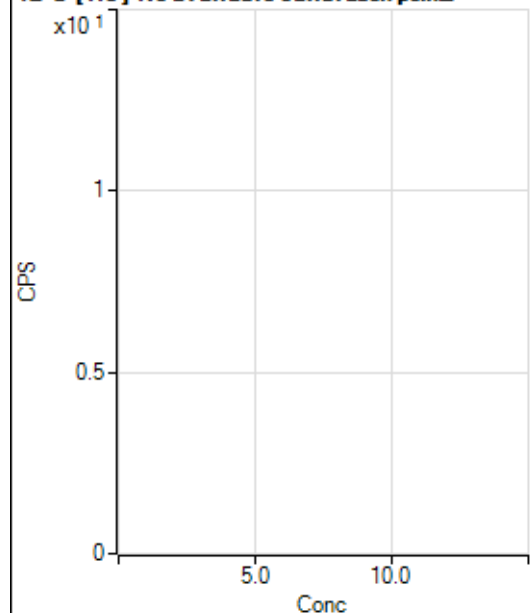
Weight: <None>

Min Conc: 0

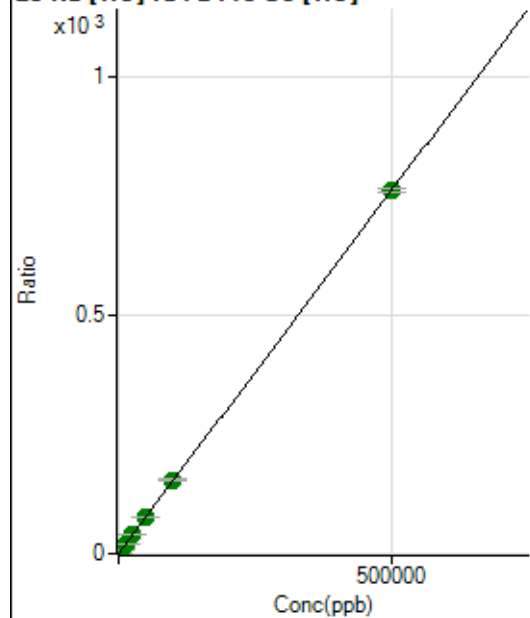
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23575.66	0.0348	P	0.9
2	☐	500.000	498.605	541239.78	0.7938	P	0.8
3	☐	5000.000	5224.152	5408697.00	7.9873	A	0.7
4	☐	12500.000	13181.289	13303819.05	20.1001	A	0.3
5	☐	25000.000	25832.101	24914600.33	39.3578	A	0.4
6	☐	50000.000	50937.138	48111429.78	77.5741	A	0.7
7	☐	100000.00	101597.31	100321564.28	154.6917	A	1.1
8	☐	500000.00	499525.94	529783415.55	760.4398	A	1.0

$$y = 0.0015 * x + 0.0348$$

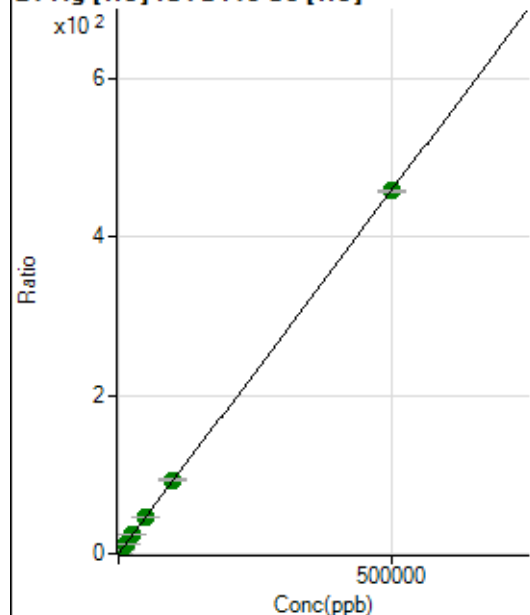
$$R = 1.0000$$

$$DL = 0.6393$$

$$BEC = 22.89$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	324.08	0.0005	P	8.2
2	☐	500.000	506.715	317286.30	0.4654	P	0.7
3	☐	5000.000	5295.654	3290273.57	4.8589	A	0.8
4	☐	12500.000	13231.603	8034708.39	12.1397	A	0.7
5	☐	25000.000	25895.054	15039299.76	23.7576	A	0.4
6	☐	50000.000	51147.179	29103027.04	46.9249	A	0.7
7	☐	100000.00	101872.55	60614244.41	93.4624	A	0.5
8	☐	500000.00	499444.76	319225329.36	458.2111	A	0.4

$$y = 9.1744\text{E-}004 * x + 4.7890\text{E-}004$$

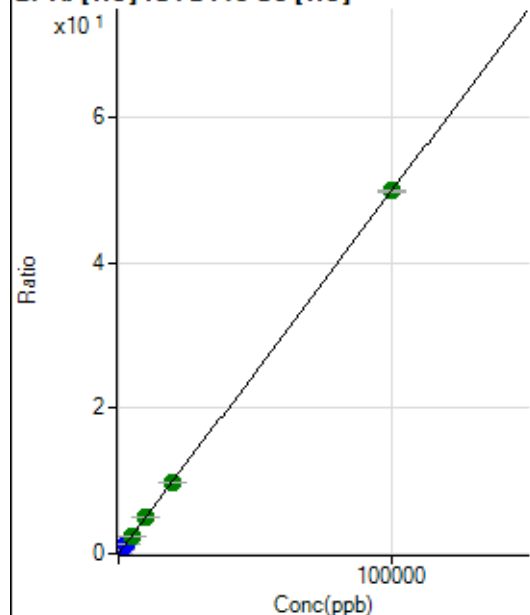
$$R = 1.0000$$

$$DL = 0.1277$$

$$BEC = 0.522$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	137.04	0.0002	P	2.7
2	☐	20.000	20.470	7090.64	0.0104	P	3.7
3	☐	1000.000	1126.800	380259.78	0.5615	P	0.9
4	☐	2500.000	2515.840	829669.05	1.2535	P	1.2
5	☐	5000.000	5009.054	1579847.36	2.4956	A	0.7
6	☐	10000.000	9958.350	3076902.33	4.9612	A	1.4
7	☐	20000.000	19750.933	6381482.03	9.8397	A	0.3
8	☐	100000.00	100051.86	34726340.36	49.8438	A	0.2

$$y = 4.9818\text{E-}004 * x + 2.0255\text{E-}004$$

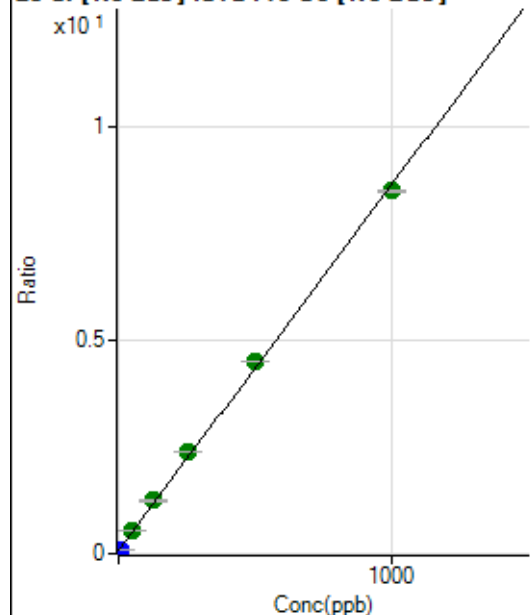
$$R = 1.0000$$

$$DL = 0.03252$$

$$BEC = 0.4066$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	544996.24	0.0732	P	1.7
2	☐	10.000	1.028	625336.82	0.0820	P	0.3
3	☐	50.000	55.769	4165523.23	0.5502	A	0.5
4	☐	125.000	136.584	9204182.76	1.2414	A	1.3
5	☐	250.000	270.848	17111791.18	2.3898	A	1.0
6	☐	500.000	518.336	31705528.49	4.5065	A	0.6
7	☐	1000.000	983.973	60700238.86	8.4892	A	0.6
8	☐			874217.00	0.1186	P	0.4

$$y = 0.0086 * x + 0.0732$$

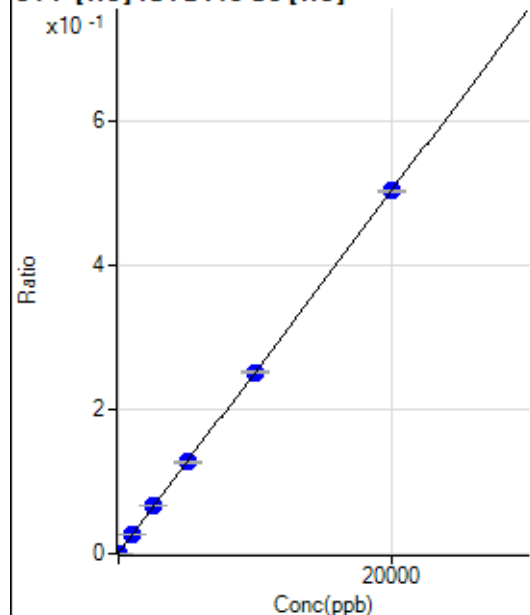
$$R = 0.9993$$

$$DL = 0.4289$$

$$BEC = 8.557$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-8.770	330.57	0.0005	P	5.9
2	☐	0.000	8.770	633.36	0.0009	P	6.4
3	☐	1000.000	1025.105	17921.96	0.0265	P	2.4
4	☐	2500.000	2593.426	43604.36	0.0659	P	1.3
5	☐	5000.000	5034.216	80525.95	0.1272	P	1.0
6	☐	10000.000	9966.907	155770.42	0.2512	P	0.8
7	☐	20000.000	19995.059	326320.38	0.5032	P	0.5
8	☐			436.13	0.0006	P	8.2

$$y = 2.5129E-005 * x + 7.0884E-004$$

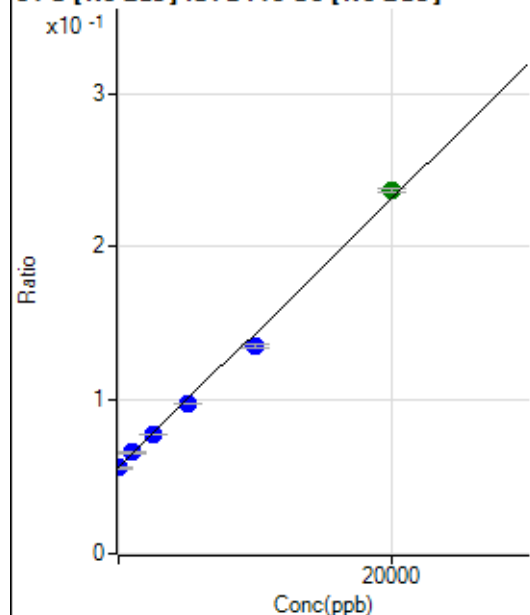
$$R = 1.0000$$

$$DL = 5.246$$

$$BEC = 28.21$$

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	11.452	419202.87	0.0563	P	2.1
2	☐	0.000	-11.452	427898.43	0.0561	P	1.1
3	☐	1000.000	1099.565	498532.27	0.0658	P	0.5
4	☐	2500.000	2454.971	576405.32	0.0777	P	1.4
5	☐	5000.000	4692.903	697360.83	0.0974	P	0.2
6	☐	10000.000	9053.333	954333.58	0.1357	P	1.3
7	☐	20000.000	20550.758	1691566.31	0.2366	A	1.2
8	☐			321790.37	0.0436	P	1.0

$$y = 8.7771\text{E-}006 * x + 0.0562$$

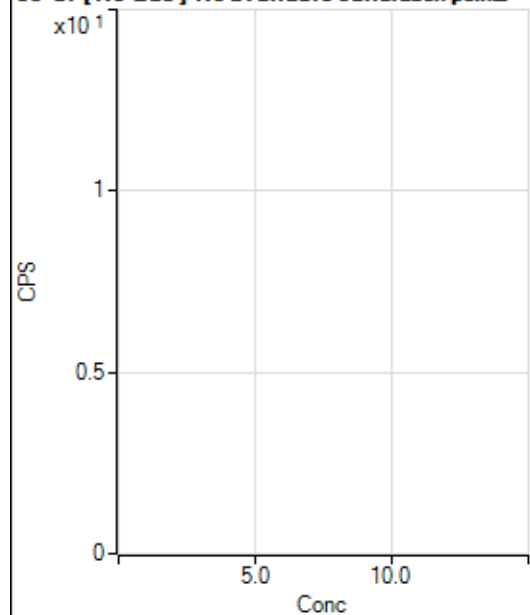
$$R = 0.9982$$

$$DL = 308.4$$

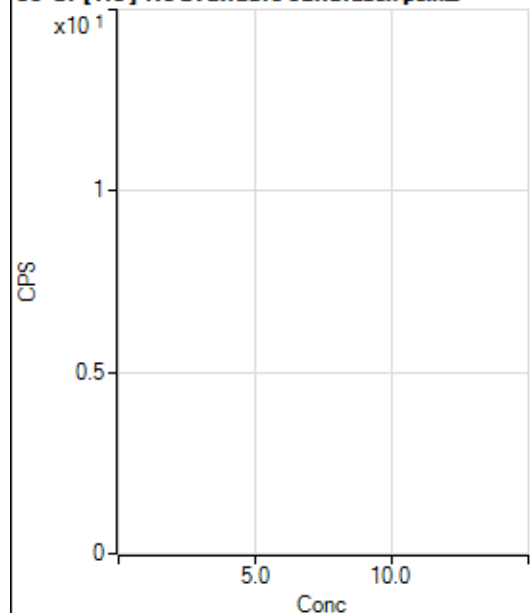
$$BEC = 6402$$

Weight: <None>

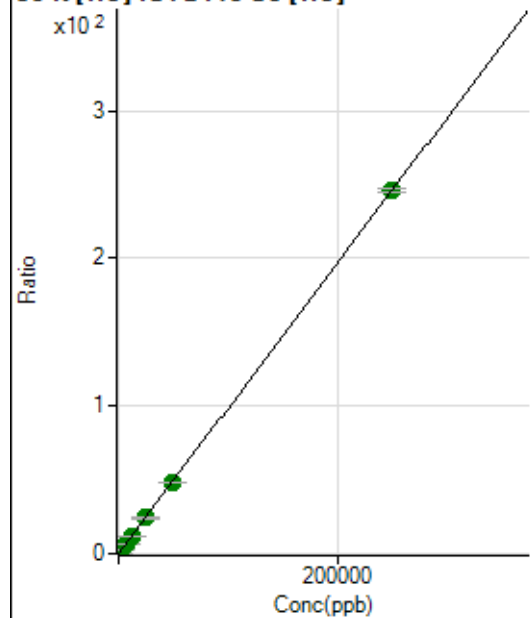
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	68545.96	0.1013	P	1.3
2	☐	500.000	508.726	409430.22	0.6005	P	0.2
3	☐	2500.000	2505.117	1733151.51	2.5595	A	0.8
4	☐	6250.000	6344.869	4187943.93	6.3273	A	0.4
5	☐	12500.000	12377.527	7752921.70	12.2470	A	0.4
6	☐	25000.000	24464.213	14951789.92	24.1072	A	0.8
7	☐	50000.000	49403.331	31505684.38	48.5792	A	0.4
8	☐	250000.00	250176.59	171103370.49	245.5915	A	1.0

$$y = 9.8127E-004 * x + 0.1013$$

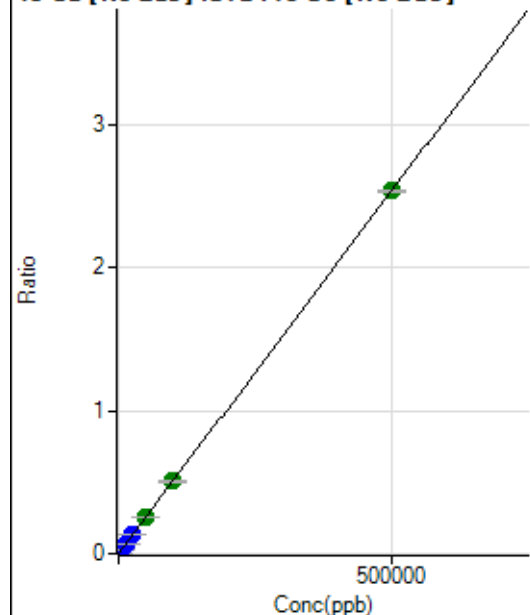
$$R = 1.0000$$

$$DL = 3.911$$

$$BEC = 103.2$$

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	186.12	0.0000	P	40.8
2	☐	500.000	498.018	19485.12	0.0026	P	5.1
3	☐	5000.000	5182.355	199473.31	0.0263	P	1.3
4	☐	12500.000	13132.875	494765.23	0.0667	P	0.5
5	☐	25000.000	25776.990	937588.29	0.1309	P	1.4
6	☐	50000.000	49232.506	1759381.59	0.2501	A	0.5
7	☐	100000.00	99455.651	3611992.49	0.5052	A	1.2
8	☐	500000.00	500129.12	18731315.52	2.5402	A	0.9

$$y = 5.0789\text{E-}006 * x + 2.5055\text{E-}005$$

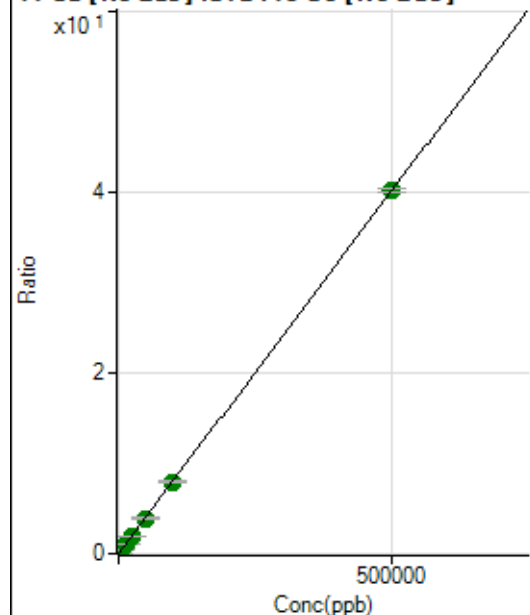
$$R = 1.0000$$

$$DL = 6.037$$

$$BEC = 4.933$$

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	18967.94	0.0025	P	1.1
2	☐	500.000	501.204	326058.24	0.0427	P	1.0
3	☐	5000.000	4914.111	3003267.49	0.3967	A	0.9
4	☐	12500.000	12518.650	7463653.46	1.0066	A	0.6
5	☐	25000.000	24689.959	14196430.70	1.9827	A	1.4
6	☐	50000.000	48940.918	27629547.32	3.9276	A	1.2
7	☐	100000.00	99331.128	56980702.66	7.9690	A	1.0
8	☐	500000.00	500255.57	295861831.61	40.1234	A	1.0

$$y = 8.0201\text{E-}005 * x + 0.0025$$

$$R = 1.0000$$

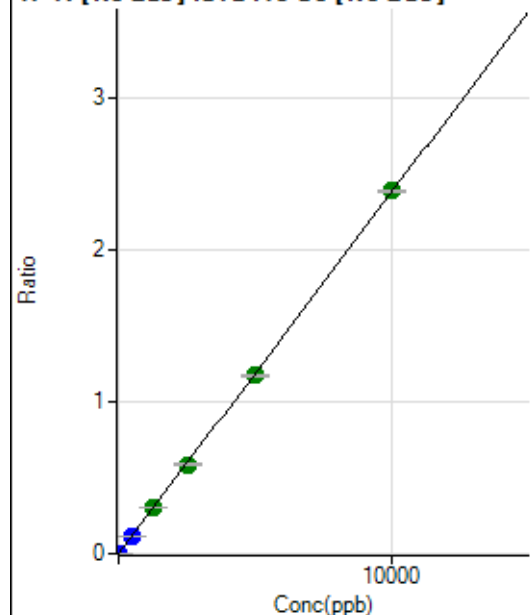
$$DL = 1.015$$

$$BEC = 31.76$$

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	144.45	0.0000	P	32.4
2	☐	5.000	4.973	9183.57	0.0012	P	3.1
3	☐	500.000	487.866	879881.92	0.1162	P	0.6
4	☐	1250.000	1262.509	2229617.15	0.3007	A	1.3
5	☐	2500.000	2463.670	4201506.91	0.5868	A	1.7
6	☐	5000.000	4927.228	8256424.67	1.1735	A	0.8
7	☐	10000.000	10044.511	17105917.22	2.3923	A	0.6
8	☐			4539.68	0.0006	P	5.4

$$y = 2.3817E-004 * x + 1.9432E-005$$

$$R = 1.0000$$

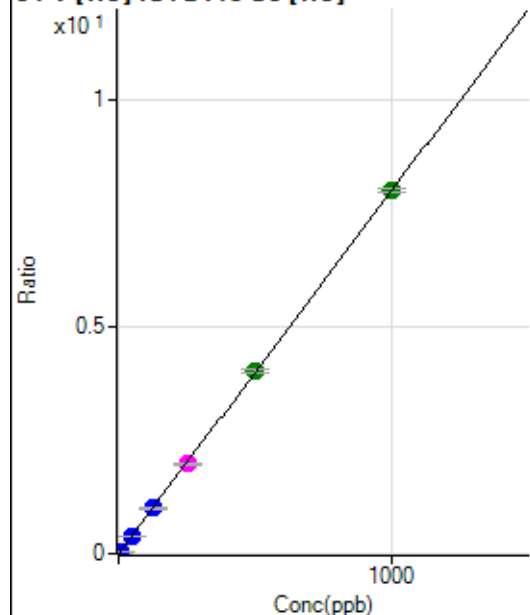
$$DL = 0.07925$$

$$BEC = 0.08159$$

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	63.33	0.0001	P	19.6
2	☐	5.000	4.814	26289.59	0.0386	P	0.4
3	☐	50.000	49.031	265372.91	0.3919	P	0.9
4	☐	125.000	124.562	658876.44	0.9955	P	0.1
5	☐	250.000	246.548	1247360.31	1.9703	M	1.4
6	☐	500.000	501.974	2487787.48	4.0114	A	1.9
7	☐	1000.000	999.980	5182514.82	7.9910	A	1.2
8	☐			1432.30	0.0021	P	4.1

$$y = 0.0080 * x + 9.3667E-005$$

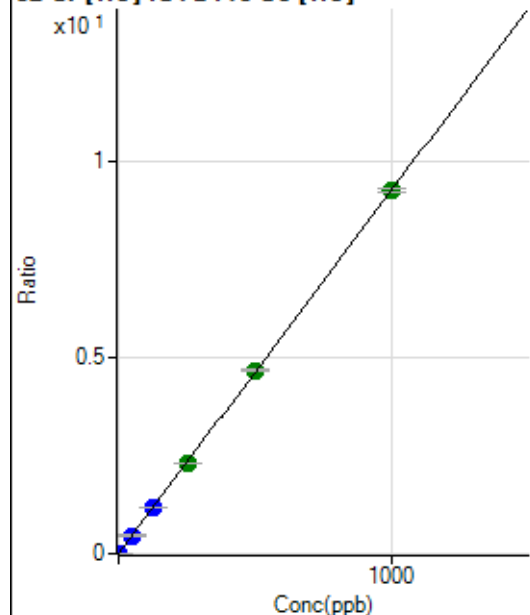
$$R = 1.0000$$

$$DL = 0.006875$$

$$BEC = 0.01172$$

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	2662.48	0.0039	P	3.4
2	☐	2.000	1.895	14678.35	0.0215	P	1.4
3	☐	50.000	49.860	316085.62	0.4668	P	0.2
4	☐	125.000	126.566	780243.73	1.1789	P	0.3
5	☐	250.000	248.203	1461101.28	2.3080	A	0.4
6	☐	500.000	503.967	2903947.53	4.6823	A	0.8
7	☐	1000.000	998.277	6012518.59	9.2710	A	0.9
8	☐			59604.83	0.0856	P	1.0

$$y = 0.0093 * x + 0.0039$$

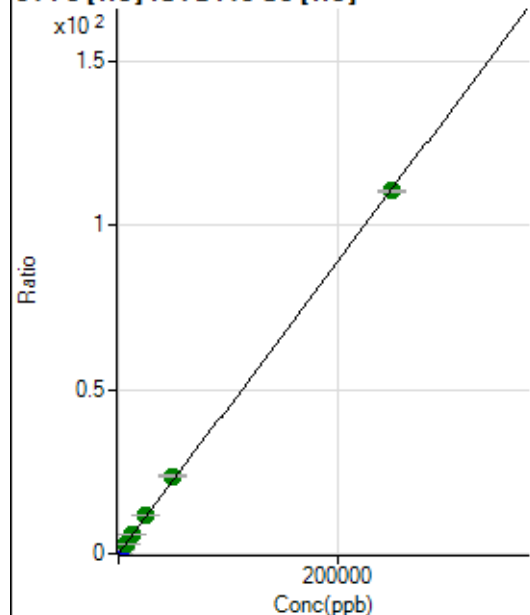
$$R = 1.0000$$

$$DL = 0.04357$$

$$BEC = 0.4239$$

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	2065.62	0.0031	P	4.0
2	☐	50.000	52.370	17932.40	0.0263	P	0.6
3	☐	2500.000	2727.025	821857.67	1.2137	P	0.6
4	☐	6250.000	6869.774	2020633.56	3.0528	A	1.0
5	☐	12500.000	13350.451	3753656.62	5.9298	A	1.1
6	☐	25000.000	26853.629	7395370.47	11.9244	A	1.3
7	☐	50000.000	53270.304	15338505.36	23.6518	A	1.5
8	☐	250000.00	249100.28	77043293.91	110.5883	A	0.6

$$y = 4.4394E-004 * x + 0.0031$$

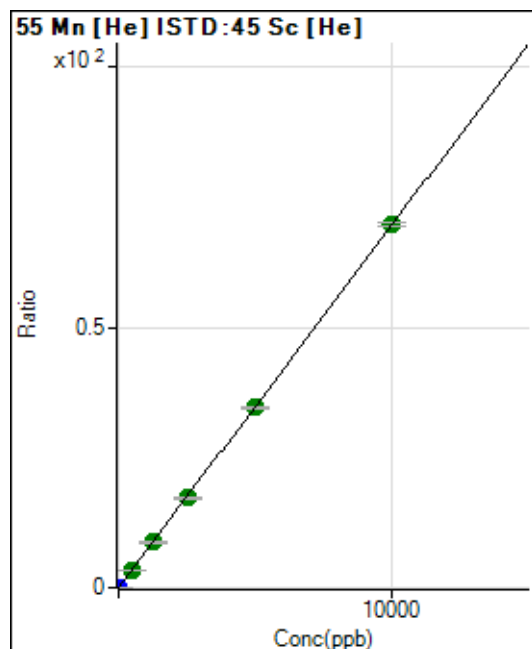
$$R = 0.9999$$

$$DL = 0.8168$$

$$BEC = 6.878$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	191.11	0.0003	P	12.3
2	☐	1.000	1.034	5093.14	0.0075	P	1.8
3	☐	500.000	501.594	2361810.83	3.4879	A	0.7
4	☐	1250.000	1254.261	5772632.00	8.7212	A	1.3
5	☐	2500.000	2478.760	10910160.05	17.2353	A	1.1
6	☐	5000.000	4976.103	21458545.37	34.5995	A	0.6
7	☐	10000.000	10016.646	45167415.99	69.6467	A	1.2
8	☐			29663.77	0.0426	P	3.3

$$y = 0.0070 * x + 2.8244E-004$$

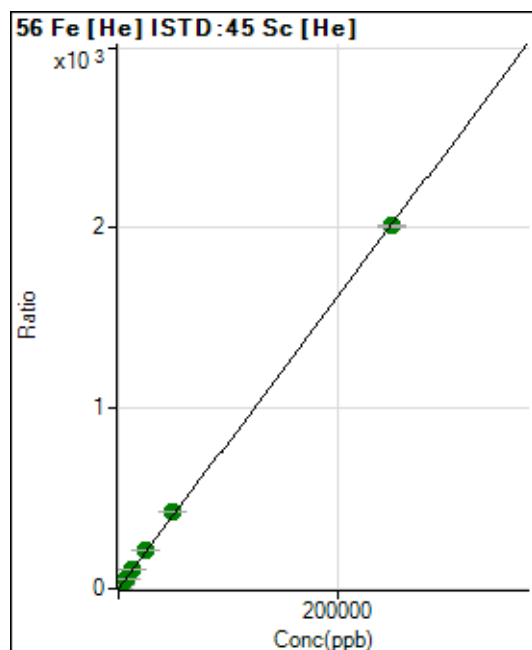
$$R = 1.0000$$

$$DL = 0.01496$$

$$BEC = 0.04062$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16689.10	0.0247	P	0.9
2	☐	50.000	51.789	301748.61	0.4426	P	0.5
3	☐	2500.000	2657.282	14536544.42	21.4673	A	0.5
4	☐	6250.000	6679.895	35693752.65	53.9273	A	0.6
5	☐	12500.000	13180.293	67340945.95	106.3815	A	1.0
6	☐	25000.000	26481.116	132543388.15	213.7110	A	0.6
7	☐	50000.000	52993.296	277338787.68	427.6480	A	1.2
8	☐	250000.00	249206.89	1401024757.2	2,010.971	A	0.8

$$y = 0.0081 * x + 0.0247$$

$$R = 0.9999$$

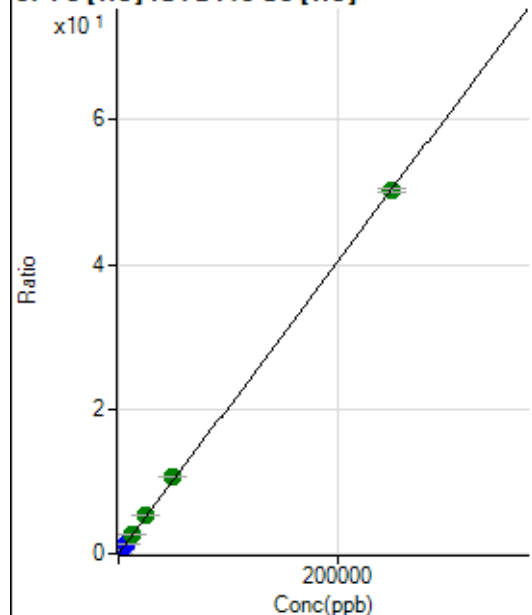
$$DL = 0.07813$$

$$BEC = 3.057$$

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	509.28	0.0008	P	7.7
2	☐	50.000	51.917	7639.07	0.0112	P	3.8
3	☐	2500.000	2625.083	358353.42	0.5292	P	0.4
4	☐	6250.000	6664.549	888490.75	1.3424	P	0.5
5	☐	12500.000	13133.548	1674126.90	2.6447	A	0.9
6	☐	25000.000	26210.992	3272977.82	5.2773	A	0.9
7	☐	50000.000	52794.440	6893159.76	10.6289	A	1.0
8	☐	250000.00	249276.72	34960384.58	50.1832	A	1.1

$$y = 2.0131E-004 * x + 7.5249E-004$$

$$R = 0.9999$$

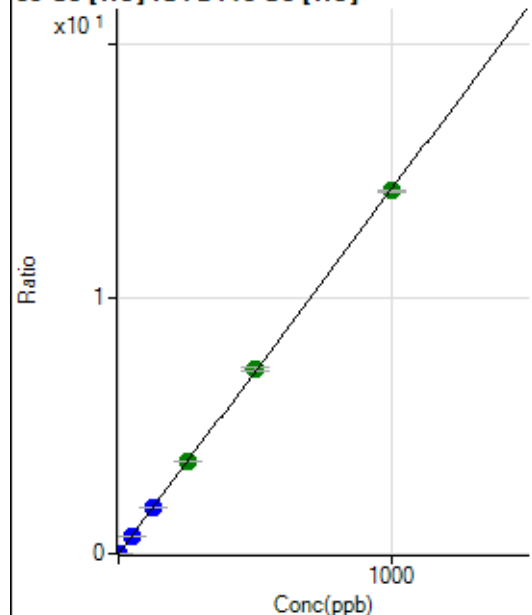
$$DL = 0.8672$$

$$BEC = 3.738$$

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	132.23	0.0002	P	23.9
2	☐	1.000	0.985	9725.44	0.0143	P	1.8
3	☐	50.000	49.350	477418.44	0.7051	P	0.7
4	☐	125.000	125.487	1186417.68	1.7925	P	0.1
5	☐	250.000	253.147	2288925.35	3.6159	A	0.6
6	☐	500.000	507.175	4492690.91	7.2441	A	1.6
7	☐	1000.000	995.597	9222359.17	14.2202	A	0.4
8	☐			27736.81	0.0398	P	1.2

$$y = 0.0143 * x + 1.9547E-004$$

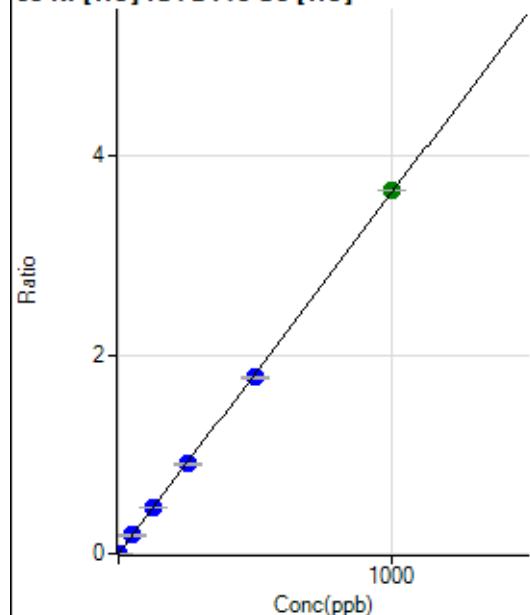
$$R = 1.0000$$

$$DL = 0.00982$$

$$BEC = 0.01369$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	246.67	0.0004	P	5.7
2	☐	1.000	1.039	2819.19	0.0041	P	2.7
3	☐	50.000	50.550	124460.19	0.1838	P	0.3
4	☐	125.000	127.616	306749.24	0.4635	P	0.1
5	☐	250.000	247.801	569468.13	0.8996	P	0.5
6	☐	500.000	489.444	1101759.19	1.7765	P	0.8
7	☐	1000.000	1005.473	2366590.54	3.6490	A	0.2
8	☐			29595.88	0.0425	P	1.6

$$y = 0.0036 * x + 3.6453E-004$$

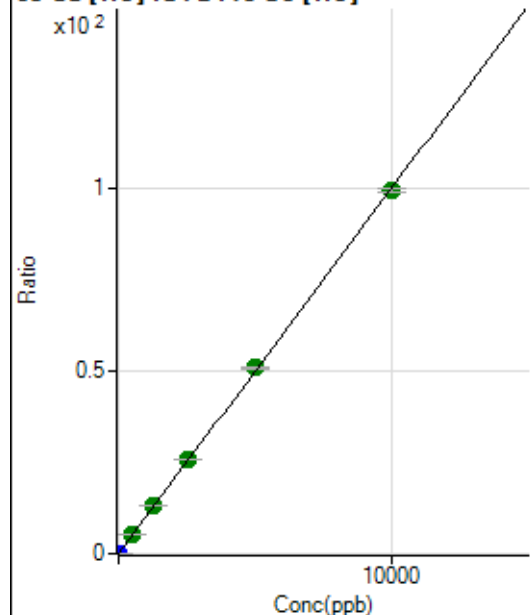
$$R = 0.9999$$

$$DL = 0.01707$$

$$BEC = 0.1005$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	902.26	0.0013	P	3.1
2	☐	2.000	1.996	14509.34	0.0213	P	2.5
3	☐	500.000	520.144	3520501.75	5.1992	A	1.6
4	☐	1250.000	1317.231	8712952.37	13.1646	A	1.3
5	☐	2500.000	2575.401	16293152.95	25.7377	A	0.3
6	☐	5000.000	5082.900	31503166.48	50.7956	A	0.8
7	☐	10000.000	9930.289	64358151.82	99.2363	A	1.2
8	☐			47465.00	0.0681	P	1.6

$$y = 0.0100 * x + 0.0013$$

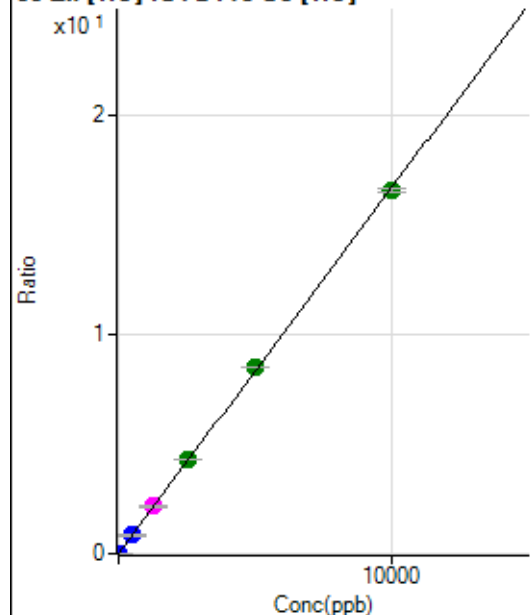
$$R = 0.9999$$

$$DL = 0.01246$$

$$BEC = 0.1334$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	358.90	0.0005	P	4.9
2	☐	2.000	2.464	3169.26	0.0046	P	2.6
3	☐	500.000	500.185	566457.34	0.8366	P	0.8
4	☐	1250.000	1290.920	1428508.64	2.1582	M	1.0
5	☐	2500.000	2576.084	2725962.27	4.3063	A	0.6
6	☐	5000.000	5109.060	5296497.94	8.5399	A	0.4
7	☐	10000.000	9921.325	10754667.41	16.5833	A	1.1
8	☐			18820.84	0.0270	P	2.2

$$y = 0.0017 * x + 5.3036E-004$$

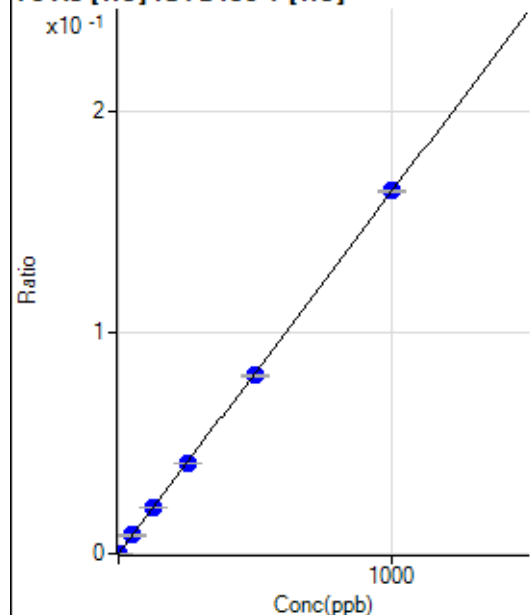
$$R = 0.9999$$

$$DL = 0.04685$$

$$BEC = 0.3173$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24.07	0.0000	P	55.3
2	☐	1.000	1.083	779.04	0.0002	P	5.4
3	☐	50.000	50.588	34668.71	0.0083	P	1.0
4	☐	125.000	127.306	86556.92	0.0208	P	0.5
5	☐	250.000	249.419	163848.19	0.0408	P	0.7
6	☐	500.000	493.473	321665.46	0.0806	P	0.9
7	☐	1000.000	1003.091	672524.27	0.1639	P	0.8
8	☐			348.77	0.0001	P	4.0

$$y = 1.6339E-004 * x + 5.6767E-006$$

$$R = 1.0000$$

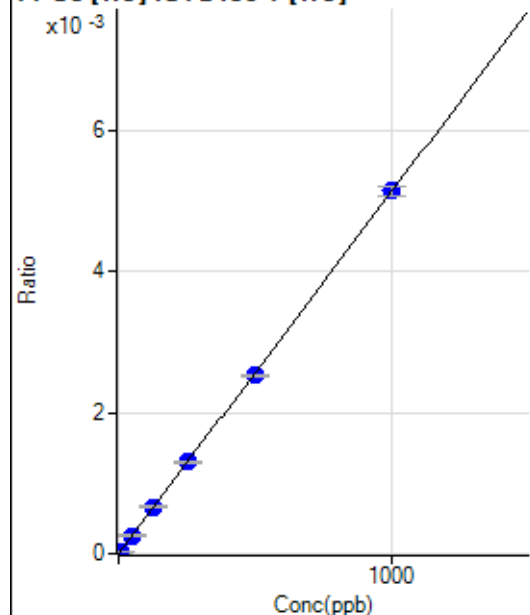
$$DL = 0.0576$$

$$BEC = 0.03474$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	5.078	113.33	0.0000	P	15.8
3	☐	50.000	49.494	1066.71	0.0003	P	4.8
4	☐	125.000	128.305	2741.39	0.0007	P	3.8
5	☐	250.000	253.315	5228.76	0.0013	P	1.8
6	☐	500.000	492.764	10091.30	0.0025	P	1.0
7	☐	1000.000	1002.401	21110.68	0.0051	P	2.9
8	☐			11.11	0.0000	P	74.7

$$y = 5.1324\text{E-}006 * x + 5.2482\text{E-}007$$

$$R = 0.9999$$

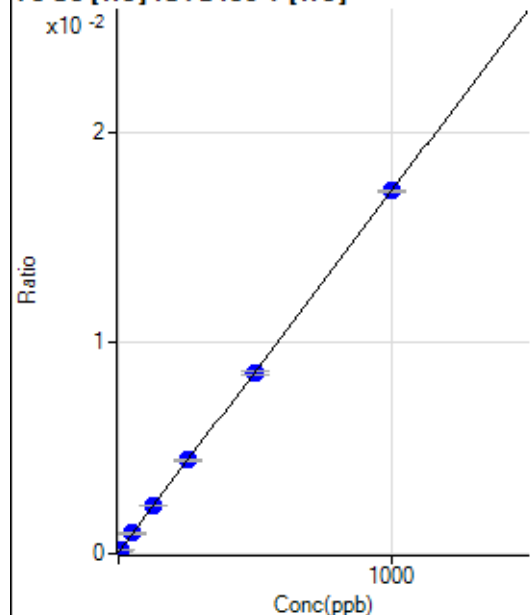
$$DL = 0.2657$$

$$BEC = 0.1023$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	309.26	0.0001	P	3.3
2	☐	5.000	5.166	689.53	0.0002	P	4.6
3	☐	50.000	52.370	4066.01	0.0010	P	3.2
4	☐	125.000	128.942	9490.10	0.0023	P	1.6
5	☐	250.000	255.689	17896.62	0.0045	P	1.7
6	☐	500.000	496.151	34187.42	0.0086	P	1.5
7	☐	1000.000	999.890	70567.85	0.0172	P	0.3
8	☐			377.17	0.0001	P	3.4

$$y = 1.7126\text{E-}005 * x + 7.3039\text{E-}005$$

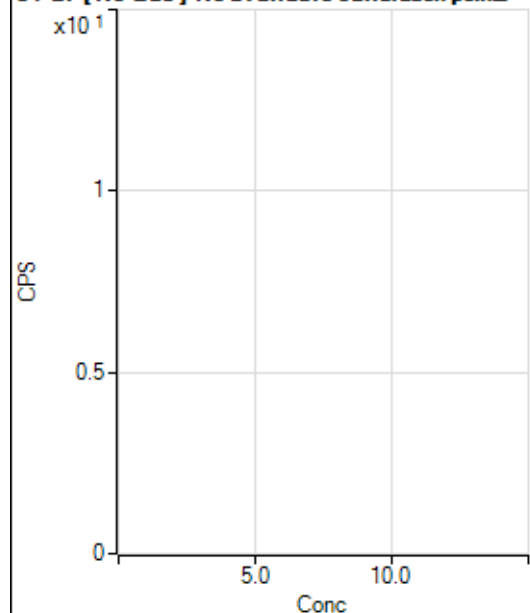
$$R = 1.0000$$

$$DL = 0.4186$$

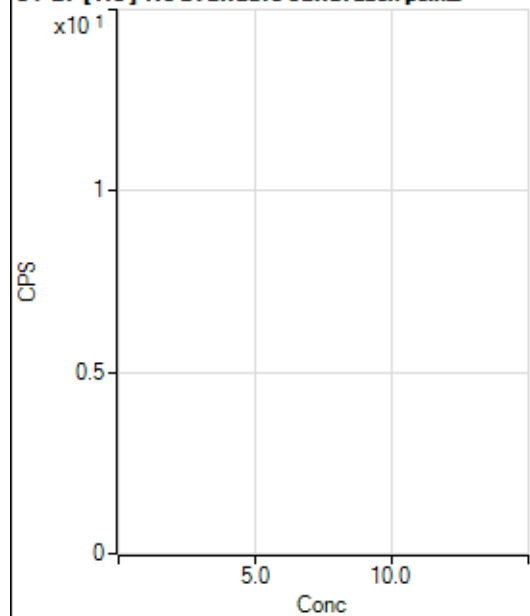
$$BEC = 4.265$$

Weight: <None>

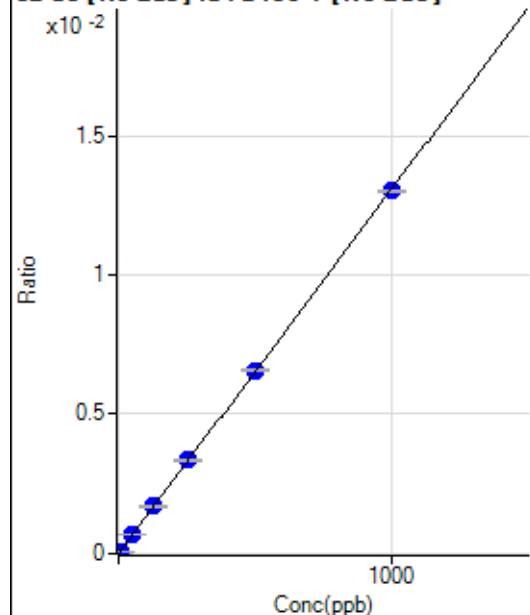
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11412.99		P	1.8
2	☐			11588.17		P	3.8
3	☐			11332.39		P	4.0
4	☐			10659.66		P	4.7
5	☐			10498.44		P	2.4
6	☐			9861.90		P	2.6
7	☐			11032.20		P	3.4
8	☐			11413.03		P	3.3

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			100.10		P	26.5
2	☐			106.77		P	30.1
3	☐			63.40		P	32.9
4	☐			93.43		P	12.4
5	☐			76.74		P	66.9
6	☐			86.75		P	6.7
7	☐			130.13		P	13.3
8	☐			163.51		P	18.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-36.88	0.0000	P	-179.
2	☐	5.000	4.664	952.43	0.0001	P	22.1
3	☐	50.000	51.931	10977.47	0.0007	P	2.7
4	☐	125.000	130.638	27314.89	0.0017	P	2.2
5	☐	250.000	257.585	52626.23	0.0034	P	2.0
6	☐	500.000	502.763	102102.33	0.0066	P	1.5
7	☐	1000.000	995.922	206434.81	0.0130	P	0.7
8	☐			183.20	0.0000	P	69.4

$$y = 1.3070E-005 * x - 2.2802E-006$$

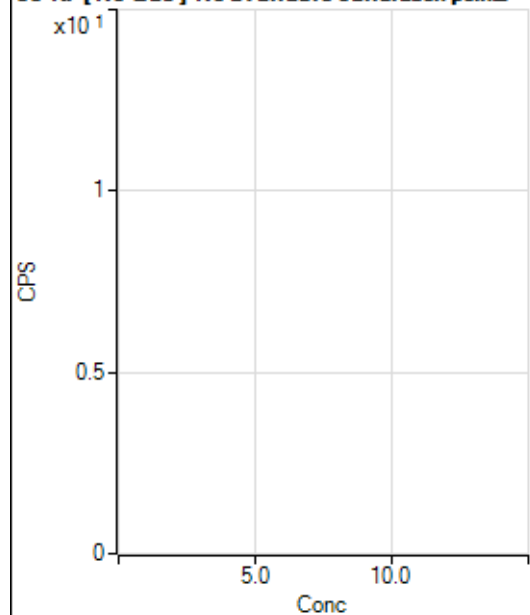
$$R = 1.0000$$

$$DL = 0.9376$$

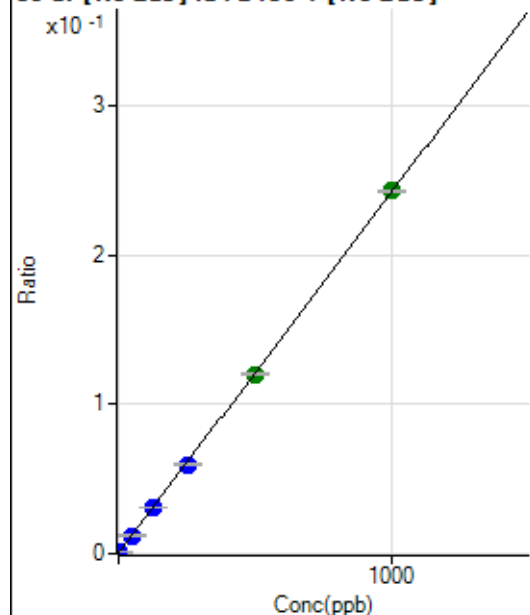
$$BEC = -0.1745$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4706.35		P	1.0
2	☐			5114.26		P	3.7
3	☐			4770.82		P	1.9
4	☐			4847.50		P	2.6
5	☐			4843.06		P	2.6
6	☐			4618.54		P	2.8
7	☐			4670.79		P	4.7
8	☐			4719.69		P	2.7

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7382.61	0.0005	P	5.1
2	☐	1.000	1.076	11716.03	0.0007	P	2.2
3	☐	50.000	48.621	198360.08	0.0122	P	1.1
4	☐	125.000	125.070	491982.34	0.0307	P	1.6
5	☐	250.000	245.278	935219.01	0.0598	P	1.5
6	☐	500.000	495.765	1871312.30	0.1204	A	0.5
7	☐	1000.000	1003.358	3856805.08	0.2431	A	0.9
8	☐			33368.94	0.0021	P	0.6

$$y = 2.4187E-004 * x + 4.6130E-004$$

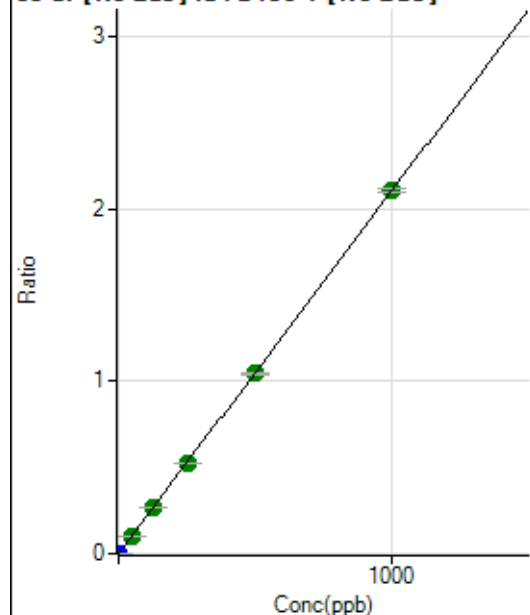
$$R = 1.0000$$

$$DL = 0.2903$$

$$BEC = 1.907$$

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	350.01	0.0000	P	16.4
2	☐	1.000	0.950	32809.53	0.0020	P	1.2
3	☐	50.000	49.550	1693105.89	0.1043	A	1.6
4	☐	125.000	127.636	4304101.22	0.2687	A	0.5
5	☐	250.000	248.762	8191376.40	0.5236	A	1.0
6	☐	500.000	497.502	16279023.80	1.0472	A	1.1
7	☐	1000.000	1001.251	33429835.82	2.1075	A	1.0
8	☐			225922.32	0.0142	P	0.9

$$y = 0.0021 * x + 2.1861E-005$$

$$R = 1.0000$$

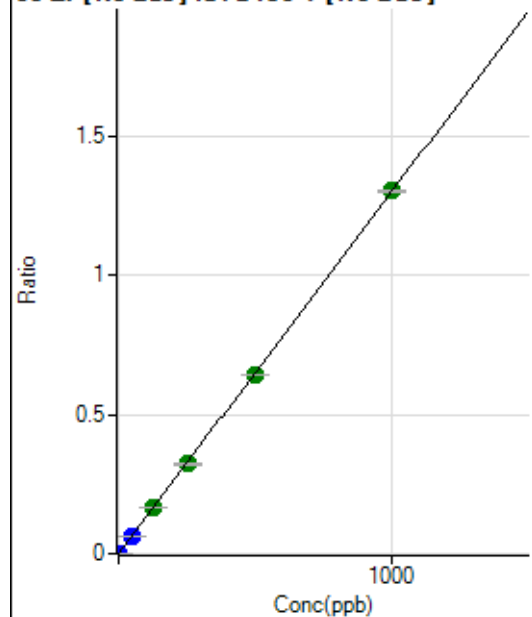
$$DL = 0.005098$$

$$BEC = 0.01039$$

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	966.73	0.0001	P	2.7
2	☐	1.000	0.945	20934.83	0.0013	P	2.3
3	☐	50.000	48.694	1029408.24	0.0634	P	0.7
4	☐	125.000	128.101	2671339.12	0.1668	A	0.3
5	☐	250.000	248.898	5066741.69	0.3239	A	2.7
6	☐	500.000	493.472	9983016.45	0.6422	A	0.6
7	☐	1000.000	1003.217	20708479.98	1.3055	A	0.5
8	☐			12769.77	0.0008	P	2.5

$$y = 0.0013 * x + 6.0377E-005$$

$$R = 1.0000$$

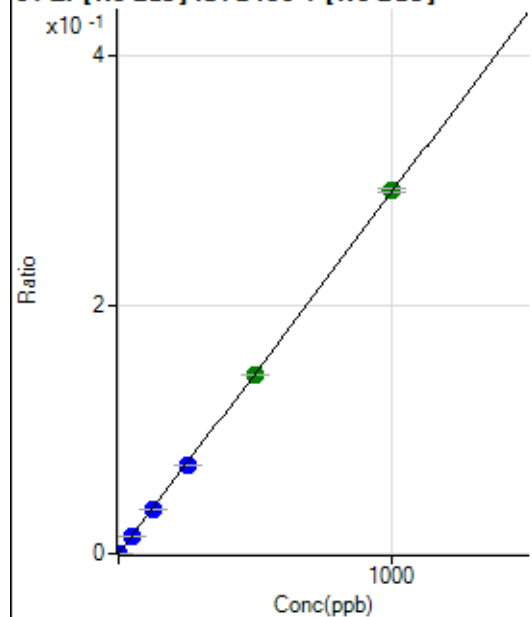
$$DL = 0.003811$$

$$BEC = 0.0464$$

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	208.34	0.0000	P	5.0
2	☐	1.000	0.967	4764.79	0.0003	P	3.0
3	☐	50.000	48.560	228826.13	0.0141	P	1.6
4	☐	125.000	124.496	578735.74	0.0361	P	0.3
5	☐	250.000	245.022	1111951.00	0.0711	P	2.0
6	☐	500.000	493.890	2227404.11	0.1433	A	0.4
7	☐	1000.000	1004.435	4621862.30	0.2914	A	1.0
8	☐			2711.43	0.0002	P	9.1

$$y = 2.9008E-004 * x + 1.3019E-005$$

$$R = 1.0000$$

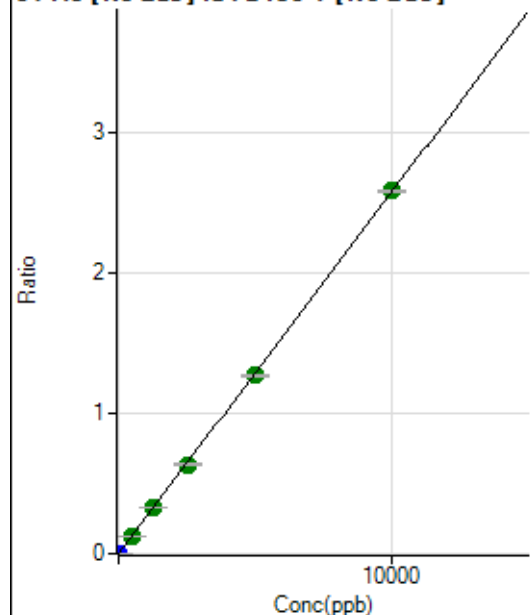
$$DL = 0.006747$$

$$BEC = 0.04488$$

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	425.02	0.0000	P	24.2
2	☐	5.000	5.768	24543.25	0.0015	P	2.9
3	☐	500.000	496.120	2073938.69	0.1278	A	1.4
4	☐	1250.000	1269.559	5237644.17	0.3270	A	0.4
5	☐	2500.000	2471.371	9954966.98	0.6364	A	2.0
6	☐	5000.000	4934.459	19752634.64	1.2707	A	0.8
7	☐	10000.000	10037.676	41001299.87	2.5849	A	0.8
8	☐			16868.47	0.0011	P	5.1

$$y = 2.5751E-004 * x + 2.6552E-005$$

$$R = 1.0000$$

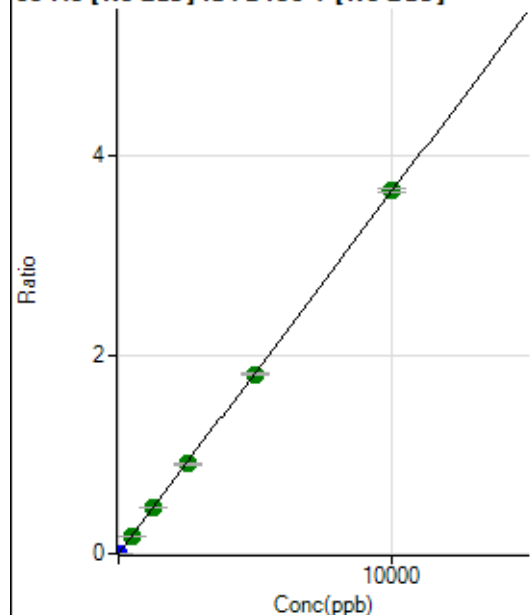
$$DL = 0.07489$$

$$BEC = 0.1031$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	105.56	0.0000	P	38.7
2	☐	5.000	4.958	29419.08	0.0018	P	1.8
3	☐	500.000	497.502	2940075.52	0.1812	A	2.6
4	☐	1250.000	1261.705	7359610.23	0.4594	A	0.2
5	☐	2500.000	2485.991	14158727.83	0.9052	A	2.1
6	☐	5000.000	4950.492	28019766.08	1.8026	A	0.9
7	☐	10000.000	10026.918	57911959.28	3.6510	A	1.1
8	☐			21310.57	0.0013	P	6.0

$$y = 3.6412E-004 * x + 6.5891E-006$$

$$R = 1.0000$$

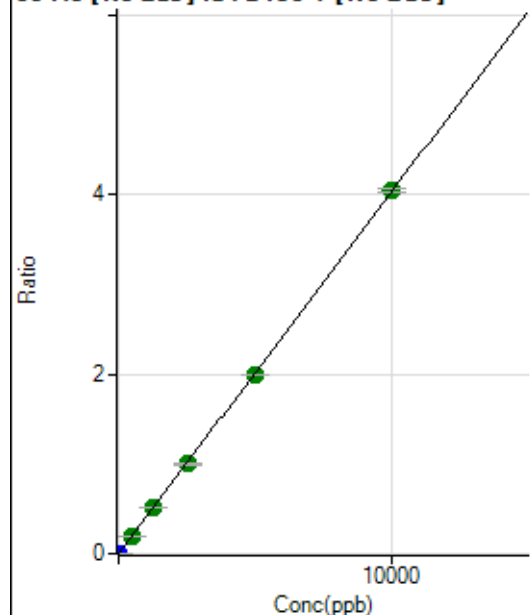
$$DL = 0.02101$$

$$BEC = 0.0181$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	269.45	0.0000	P	32.1
2	☐	5.000	4.922	32500.63	0.0020	P	1.3
3	☐	500.000	495.129	3240985.49	0.1997	A	1.8
4	☐	1250.000	1259.142	8134704.18	0.5078	A	0.7
5	☐	2500.000	2480.964	15650519.45	1.0005	A	1.8
6	☐	5000.000	4942.081	30981883.68	1.9931	A	0.5
7	☐	10000.000	10032.819	64178655.60	4.0460	A	1.0
8	☐			29263.15	0.0018	P	3.0

$$y = 4.0328\text{E-}004 * x + 1.6867\text{E-}005$$

$$R = 1.0000$$

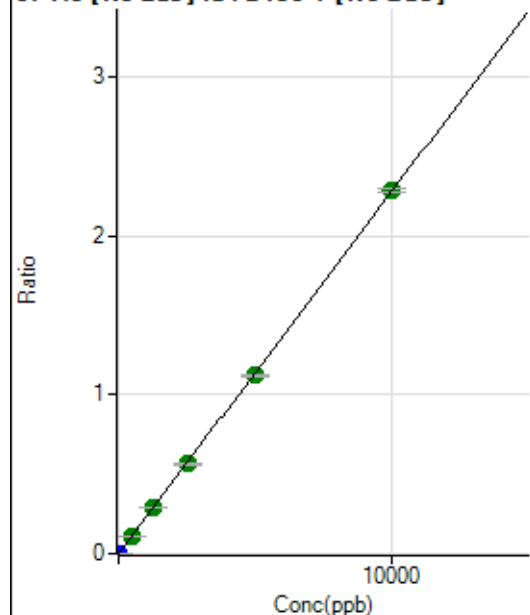
$$DL = 0.04023$$

$$BEC = 0.04183$$

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	88.89	0.0000	P	27.6
2	☐	5.000	4.930	18289.72	0.0011	P	3.4
3	☐	500.000	494.497	1824572.65	0.1124	A	2.5
4	☐	1250.000	1271.313	4630224.02	0.2890	A	0.8
5	☐	2500.000	2483.799	8832863.04	0.5647	A	2.0
6	☐	5000.000	4940.615	17460048.13	1.1233	A	1.0
7	☐	10000.000	10031.354	36175394.56	2.2806	A	1.1
8	☐			13834.62	0.0009	P	4.9

$$y = 2.2735\text{E-}004 * x + 5.5422\text{E-}006$$

$$R = 1.0000$$

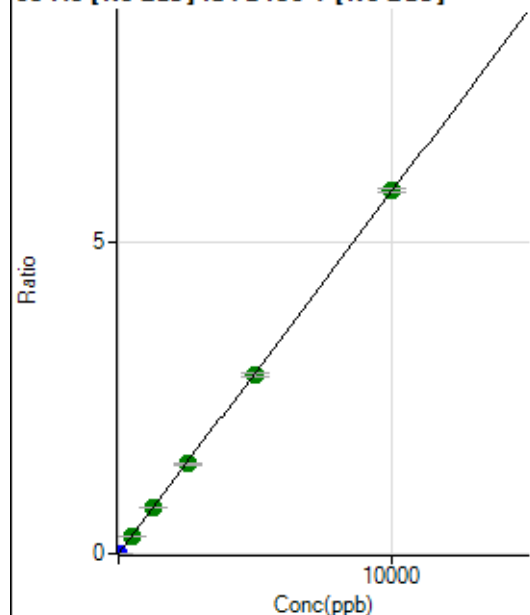
$$DL = 0.02016$$

$$BEC = 0.02438$$

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	205.56	0.0000	P	21.5
2	☐	5.000	4.902	46471.81	0.0029	P	1.1
3	☐	500.000	492.785	4649157.52	0.2865	A	0.5
4	☐	1250.000	1267.610	11803531.95	0.7368	A	1.1
5	☐	2500.000	2490.425	22643441.31	1.4476	A	2.0
6	☐	5000.000	4951.003	44732271.48	2.8779	A	1.6
7	☐	10000.000	10025.052	92432213.18	5.8273	A	1.1
8	☐			33480.73	0.0021	P	6.7

$$y = 5.8127\text{E-}004 * x + 1.2857\text{E-}005$$

$$R = 1.0000$$

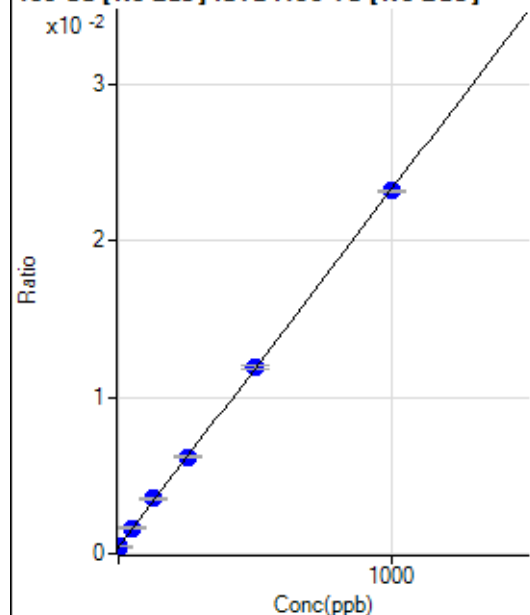
$$DL = 0.01427$$

$$BEC = 0.02212$$

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	5556.76	0.0004	P	1.7
2	☐	1.000	1.783	6198.68	0.0005	P	1.8
3	☐	50.000	53.322	22008.85	0.0016	P	2.5
4	☐	125.000	136.072	47021.36	0.0035	P	2.8
5	☐	250.000	251.572	82912.20	0.0062	P	1.0
6	☐	500.000	504.209	159572.70	0.0120	P	2.3
7	☐	1000.000	995.952	314891.63	0.0232	P	0.6
8	☐			6070.91	0.0005	P	4.5

$$y = 2.2868\text{E-}005 * x + 4.3026\text{E-}004$$

$$R = 0.9999$$

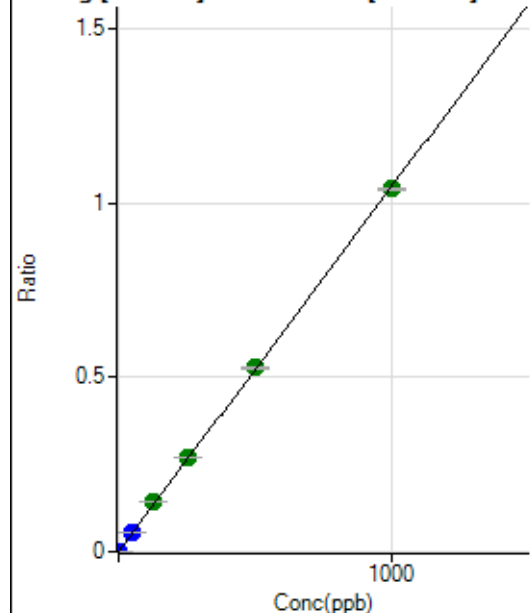
$$DL = 0.9416$$

$$BEC = 18.81$$

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	97.22	0.0000	P	24.6
2	☐	1.000	0.969	13442.68	0.0010	P	4.1
3	☐	50.000	52.078	726920.47	0.0545	P	0.9
4	☐	125.000	135.882	1887430.53	0.1422	A	1.3
5	☐	250.000	257.378	3610264.84	0.2693	A	1.2
6	☐	500.000	504.372	7039428.28	0.5276	A	0.8
7	☐	1000.000	994.506	14117549.19	1.0404	A	0.3
8	☐			6793.42	0.0005	P	3.7

$$y = 0.0010 * x + 7.5085E-006$$

$$R = 0.9999$$

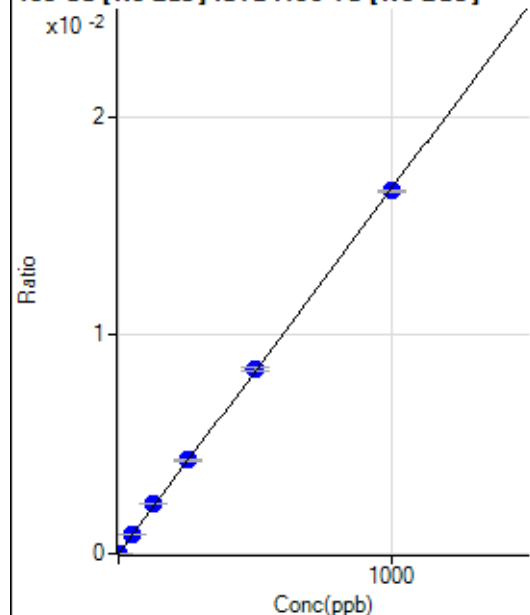
$$DL = 0.005299$$

$$BEC = 0.007178$$

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	76.39	0.0000	P	7.5
2	☐	1.000	0.981	293.06	0.0000	P	3.0
3	☐	50.000	52.254	11707.60	0.0009	P	0.9
4	☐	125.000	135.374	30060.43	0.0023	P	1.7
5	☐	250.000	256.593	57470.52	0.0043	P	1.9
6	☐	500.000	505.292	112521.94	0.0084	P	1.8
7	☐	1000.000	994.296	225155.64	0.0166	P	0.3
8	☐			158.34	0.0000	P	24.4

$$y = 1.6681E-005 * x + 5.9126E-006$$

$$R = 0.9999$$

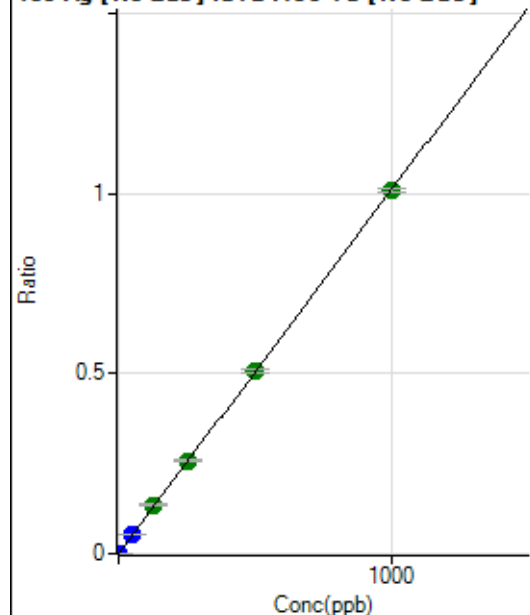
$$DL = 0.07943$$

$$BEC = 0.3544$$

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	27.78	0.0000	P	61.9
2	☐	1.000	0.963	12847.74	0.0010	P	8.1
3	☐	50.000	51.679	697338.30	0.0523	P	1.4
4	☐	125.000	134.329	1803980.34	0.1359	A	0.9
5	☐	250.000	255.943	3471031.33	0.2589	A	1.0
6	☐	500.000	500.527	6753249.67	0.5062	A	2.0
7	☐	1000.000	997.000	13682821.05	1.0084	A	1.0
8	☐			6646.13	0.0005	P	1.7

$$y = 0.0010 * x + 2.1370E-006$$

$$R = 0.9999$$

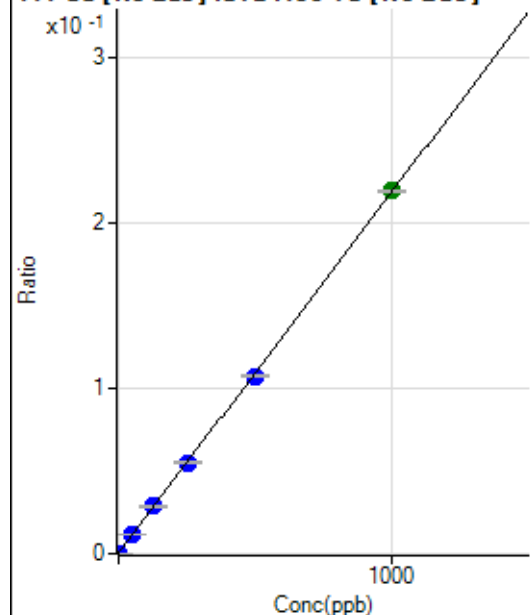
$$DL = 0.003925$$

$$BEC = 0.002113$$

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	3883.49	0.0003	P	1.4
2	☐	1.000	1.144	7246.80	0.0006	P	2.3
3	☐	50.000	51.636	154546.20	0.0116	P	1.5
4	☐	125.000	130.937	383852.27	0.0289	P	2.6
5	☐	250.000	250.749	738802.11	0.0551	P	1.0
6	☐	500.000	489.749	1431849.23	0.1073	P	1.1
7	☐	1000.000	1004.114	2981733.70	0.2197	A	0.7
8	☐			5270.80	0.0004	P	5.3

$$y = 2.1854E-004 * x + 3.0068E-004$$

$$R = 0.9999$$

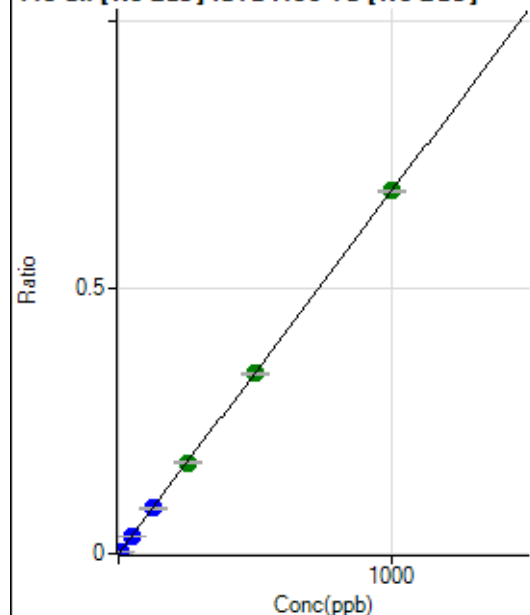
$$DL = 0.0592$$

$$BEC = 1.376$$

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	802.82	0.0001	P	13.2
2	☐	5.000	5.011	45723.36	0.0035	P	2.0
3	☐	50.000	49.679	452163.28	0.0339	P	1.2
4	☐	125.000	126.193	1141703.70	0.0860	P	2.5
5	☐	250.000	249.753	2281332.52	0.1701	A	2.2
6	☐	500.000	497.737	4522964.29	0.3390	A	1.3
7	☐	1000.000	1001.060	9251927.64	0.6818	A	0.7
8	☐			8580.57	0.0007	P	3.8

$$y = 6.8102\text{E-}004 * x + 6.2165\text{E-}005$$

$$R = 1.0000$$

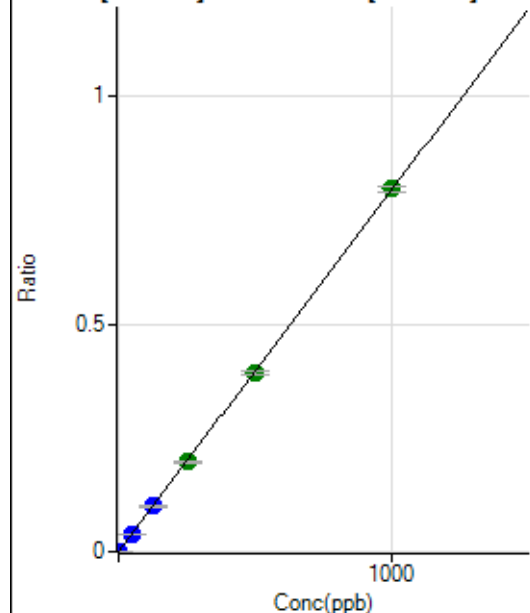
$$DL = 0.03606$$

$$BEC = 0.09128$$

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	33.33	0.0000	P	25.2
2	☐	2.000	1.953	20437.25	0.0016	P	1.5
3	☐	50.000	49.327	522461.50	0.0392	P	1.5
4	☐	125.000	125.517	1322858.24	0.0996	P	2.6
5	☐	250.000	247.526	2634901.71	0.1965	A	1.7
6	☐	500.000	494.153	5233492.78	0.3923	A	1.6
7	☐	1000.000	1003.511	10810465.00	0.7967	A	1.5
8	☐			6871.28	0.0005	P	4.1

$$y = 7.9390\text{E-}004 * x + 2.5835\text{E-}006$$

$$R = 1.0000$$

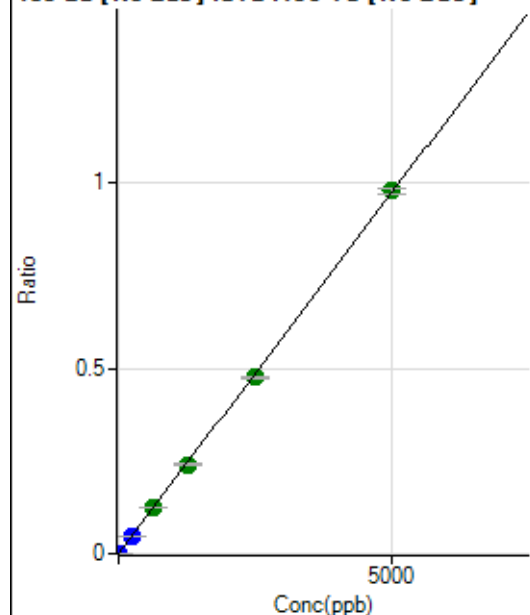
$$DL = 0.002464$$

$$BEC = 0.003254$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	58.33	0.0000	P	30.3
2	☐	10.000	9.373	24087.60	0.0018	P	2.9
3	☐	250.000	240.940	626204.17	0.0469	P	0.8
4	☐	625.000	638.549	1651664.04	0.1244	A	1.0
5	☐	1250.000	1232.743	3219857.25	0.2401	A	1.5
6	☐	2500.000	2447.535	6360725.62	0.4768	A	0.8
7	☐	5000.000	5029.308	13295222.52	0.9797	A	1.5
8	☐			7360.43	0.0006	P	2.6

$$y = 1.9480\text{E-}004 * x + 4.5328\text{E-}006$$

$$R = 0.9999$$

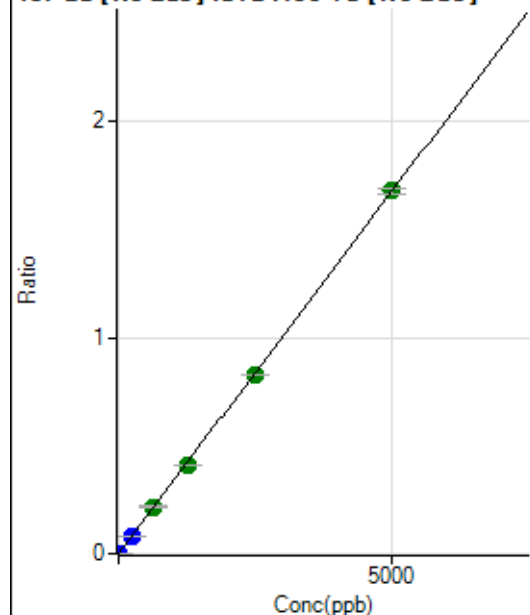
$$DL = 0.02115$$

$$BEC = 0.02327$$

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	66.67	0.0000	P	45.4
2	☐	10.000	9.509	41943.30	0.0032	P	0.3
3	☐	250.000	243.341	1086373.77	0.0814	P	0.9
4	☐	625.000	644.435	2862759.35	0.2157	A	2.8
5	☐	1250.000	1231.721	5526755.20	0.4122	A	0.6
6	☐	2500.000	2474.859	11048871.08	0.8282	A	0.7
7	☐	5000.000	5015.045	22772967.00	1.6782	A	1.4
8	☐			12878.44	0.0010	P	0.5

$$y = 3.3463\text{E-}004 * x + 5.1765\text{E-}006$$

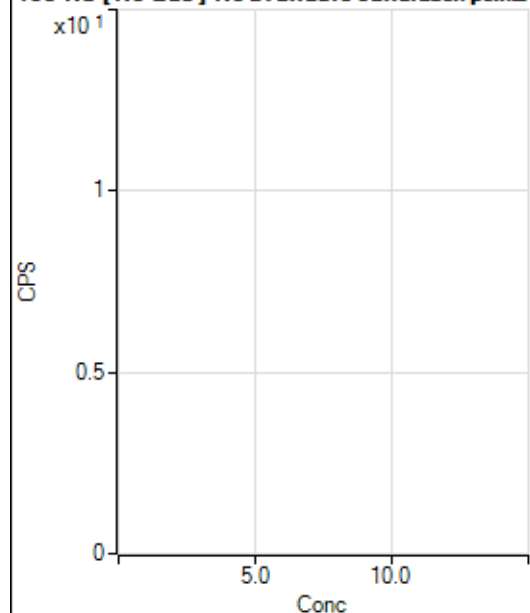
$$R = 1.0000$$

$$DL = 0.02106$$

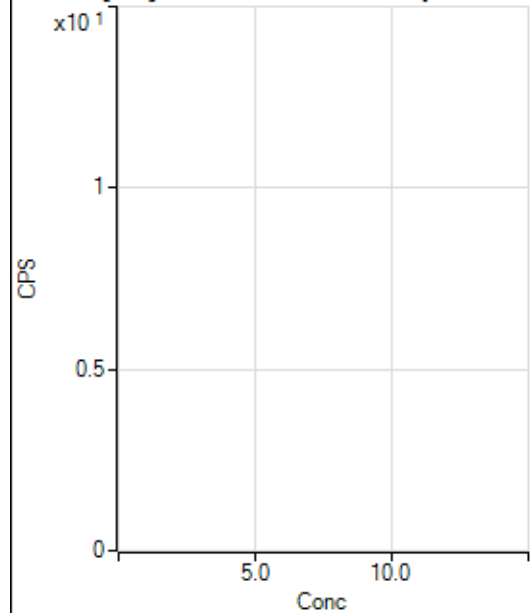
$$BEC = 0.01547$$

Weight: <None>

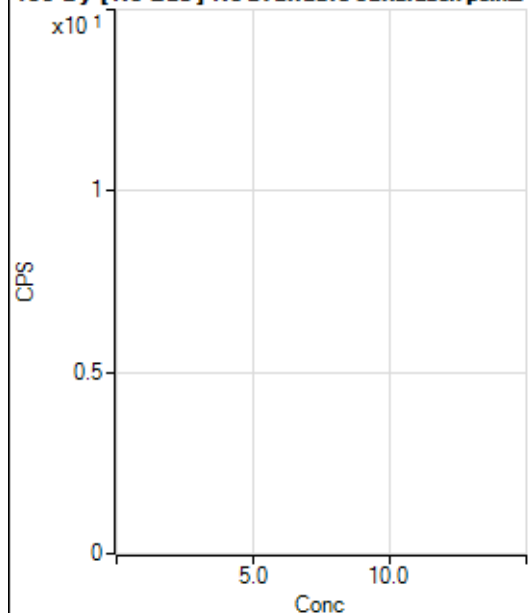
Min Conc: 0

150 Nd [No Gas] No available calibration points

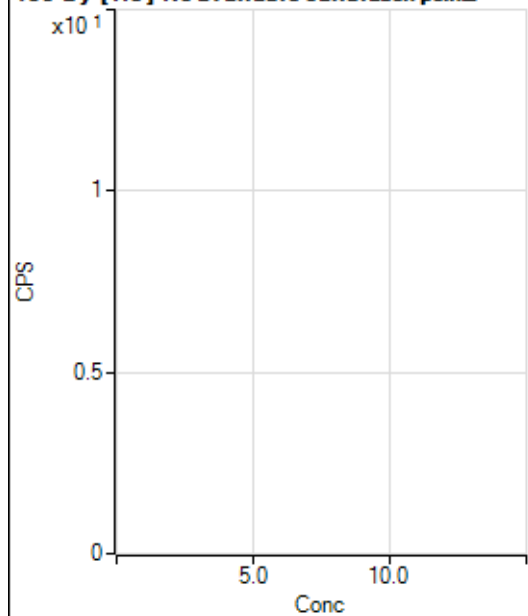
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			8.89		P	43.3
3	☐			57.78		P	48.0
4	☐			108.89		P	34.8
5	☐			193.34		P	17.9
6	☐			406.68		P	10.0
7	☐			748.93		P	10.1
8	☐			122.22		P	13.7

150 Nd [He] No available calibration points

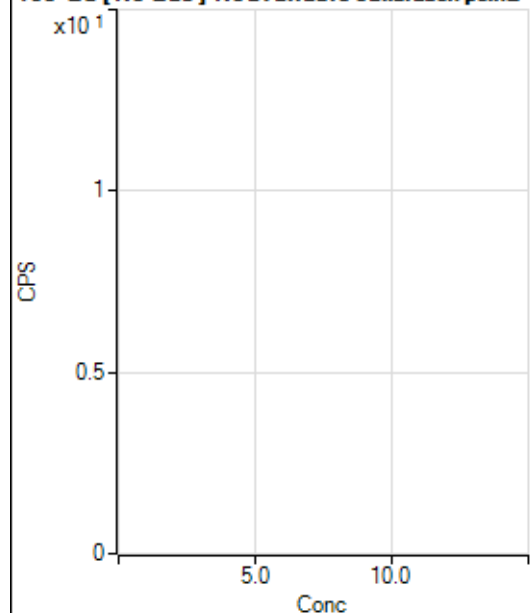
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			11.11		P	86.6
4	☐			27.78		P	18.3
5	☐			58.89		P	32.2
6	☐			90.00		P	19.2
7	☐			161.12		P	6.7
8	☐			74.44		P	23.0

156 Dy [No Gas] No available calibration points

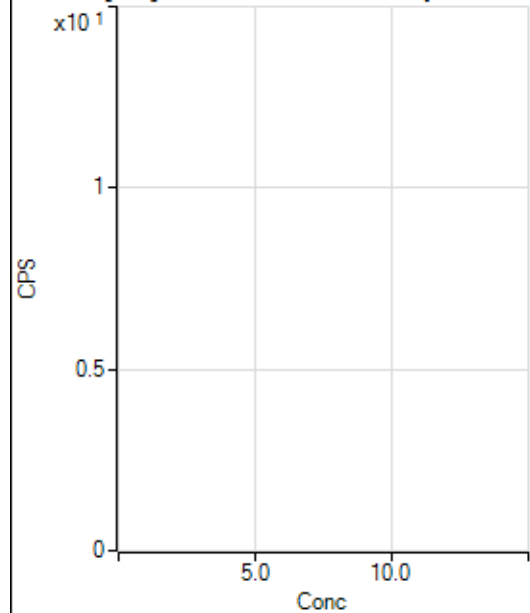
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	49.5
2	☐			36.11		P	93.3
3	☐			69.44		P	27.7
4	☐			144.45		P	23.3
5	☐			163.89		P	12.8
6	☐			388.91		P	20.4
7	☐			705.59		P	9.5
8	☐			1308.43		P	5.4

156 Dy [He] No available calibration points

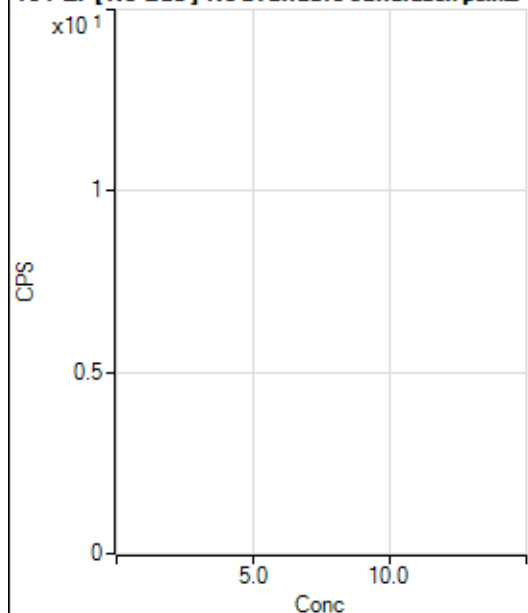
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	88.2
2	☐			8.89		P	43.3
3	☐			31.11		P	40.6
4	☐			74.44		P	12.9
5	☐			180.00		P	9.3
6	☐			283.34		P	6.2
7	☐			560.02		P	21.3
8	☐			741.14		P	3.6

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

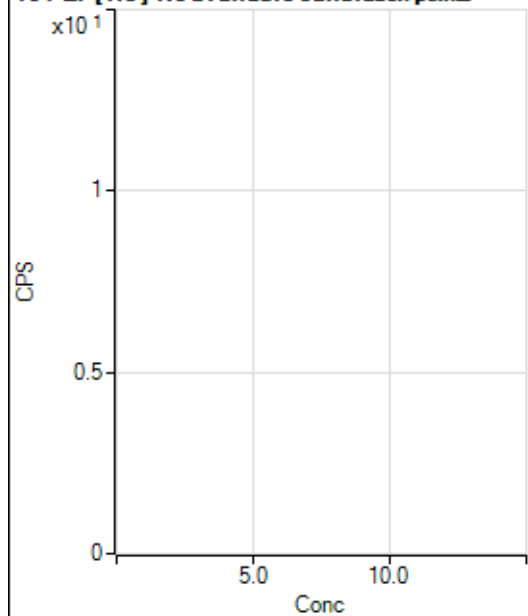
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			75.00		P	11.1
2	☐			97.23		P	40.5
3	☐			105.56		P	19.9
4	☐			136.12		P	34.8
5	☐			216.67		P	20.4
6	☐			338.90		P	6.2
7	☐			505.58		P	7.8
8	☐			963.95		P	4.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			208.89		P	8.0
2	☐			187.78		P	3.7
3	☐			215.56		P	5.4
4	☐			241.12		P	9.7
5	☐			312.23		P	8.9
6	☐			336.67		P	24.3
7	☐			512.24		P	6.0
8	☐			781.14		P	0.7

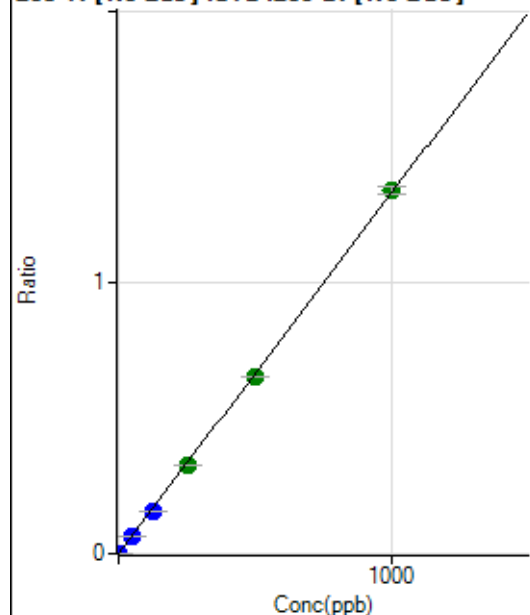
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			72.22		P	40.5
2	☐			69.45		P	18.3
3	☐			86.11		P	20.1
4	☐			100.00		P	38.2
5	☐			125.00		P	20.0
6	☐			166.67		P	20.0
7	☐			241.68		P	15.0
8	☐			200.01		P	7.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			47.78		P	24.5
2	☐			51.11		P	16.4
3	☐			63.33		P	18.2
4	☐			75.56		P	15.5
5	☐			58.89		P	17.3
6	☐			94.44		P	25.0
7	☐			160.00		P	5.5
8	☐			105.56		P	22.4

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	947.28	0.0001	P	8.1
2	☐	1.000	0.887	11371.75	0.0013	P	4.2
3	☐	50.000	45.882	540119.90	0.0612	P	0.5
4	☐	125.000	117.710	1379049.67	0.1569	P	1.2
5	☐	250.000	245.571	2890040.02	0.3271	A	0.6
6	☐	500.000	491.485	5748252.38	0.6546	A	0.8
7	☐	1000.000	1006.482	11677326.04	1.3404	A	2.1
8	☐			6101.56	0.0008	P	7.2

$$y = 0.0013 * x + 1.1037E-004$$

$$R = 0.9999$$

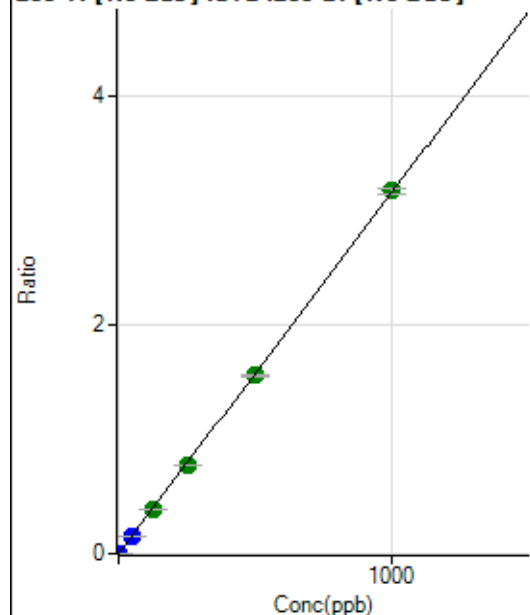
$$DL = 0.02017$$

$$BEC = 0.08288$$

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	2158.57	0.0003	P	5.0
2	☐	1.000	0.890	26902.22	0.0031	P	1.1
3	☐	50.000	45.780	1276202.45	0.1446	P	0.9
4	☐	125.000	124.172	3444859.69	0.3918	A	1.4
5	☐	250.000	243.664	6790721.51	0.7687	A	0.6
6	☐	500.000	493.528	13669530.25	1.5566	A	0.6
7	☐	1000.000	1005.135	27617845.76	3.1700	A	1.5
8	☐			14688.86	0.0019	P	3.4

$$y = 0.0032 * x + 2.5142E-004$$

$$R = 0.9999$$

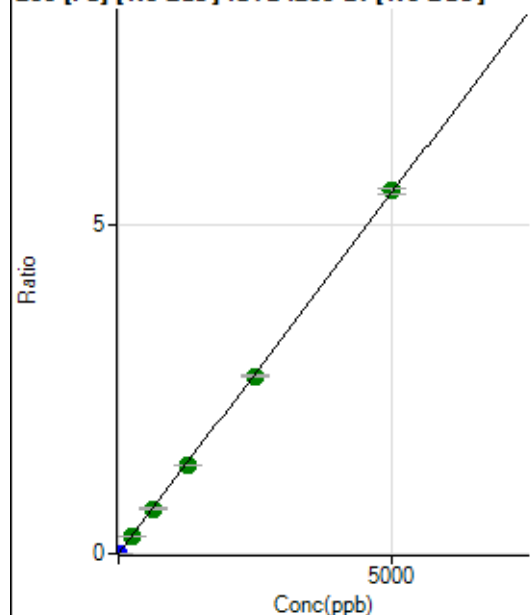
$$DL = 0.01201$$

$$BEC = 0.07972$$

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	401.86	0.0000	P	14.9
2	☐	1.000	0.855	8684.41	0.0010	P	1.5
3	☐	250.000	243.292	2361089.32	0.2676	A	1.6
4	☐	625.000	623.642	6028762.46	0.6858	A	2.2
5	☐	1250.000	1216.404	11816591.00	1.3376	A	0.4
6	☐	2500.000	2460.424	23757946.60	2.7054	A	0.9
7	☐	5000.000	5028.692	48174093.20	5.5294	A	1.3
8	☐			15293.98	0.0020	P	1.5

$$y = 0.0011 * x + 4.6715E-005$$

$$R = 0.9999$$

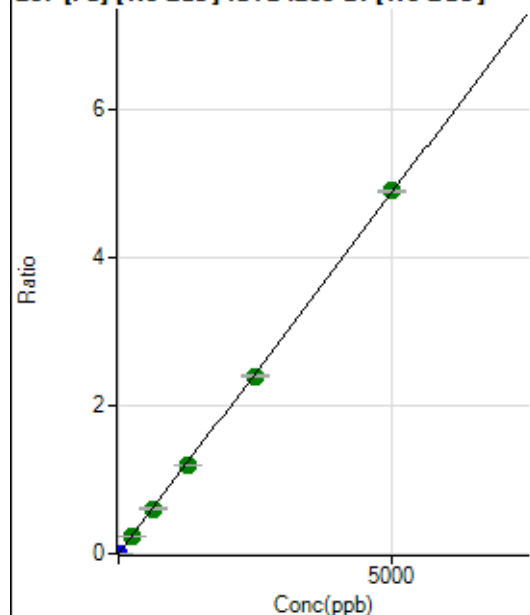
$$DL = 0.01898$$

$$BEC = 0.04249$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	346.31	0.0000	P	9.5
2	☐	1.000	0.898	8054.36	0.0009	P	3.0
3	☐	250.000	242.566	2086396.26	0.2364	A	0.2
4	☐	625.000	624.298	5349226.62	0.6084	A	1.1
5	☐	1250.000	1220.440	10507638.89	1.1894	A	1.2
6	☐	2500.000	2457.499	21031262.97	2.3949	A	1.1
7	☐	5000.000	5029.100	42702241.70	4.9010	A	0.2
8	☐			13128.78	0.0017	P	1.9

$$y = 9.7453E-004 * x + 4.0300E-005$$

$$R = 0.9999$$

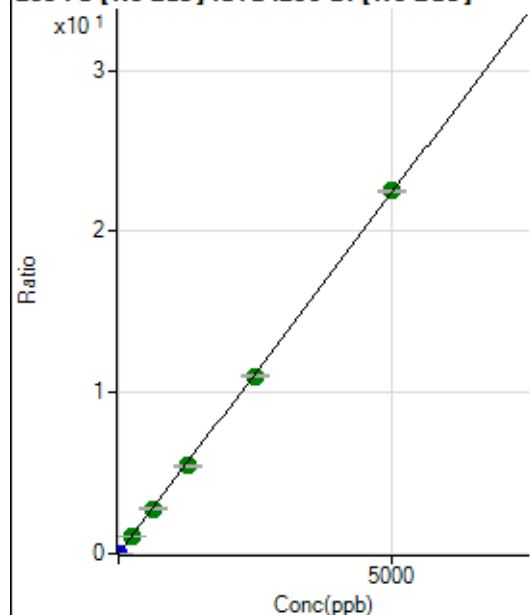
$$DL = 0.01178$$

$$BEC = 0.04135$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1685.26	0.0002	P	6.7
2	☐	1.000	0.881	36442.11	0.0041	P	1.7
3	☐	250.000	243.555	9622921.92	1.0905	A	0.9
4	☐	625.000	624.414	24576573.75	2.7954	A	1.0
5	☐	1250.000	1217.983	48170485.79	5.4525	A	1.0
6	☐	2500.000	2460.342	96719616.28	11.0139	A	0.7
7	☐	5000.000	5028.229	196114520.59	22.5091	A	0.7
8	☐			60969.42	0.0079	P	3.6

$$y = 0.0045 * x + 1.9606E-004$$

$$R = 0.9999$$

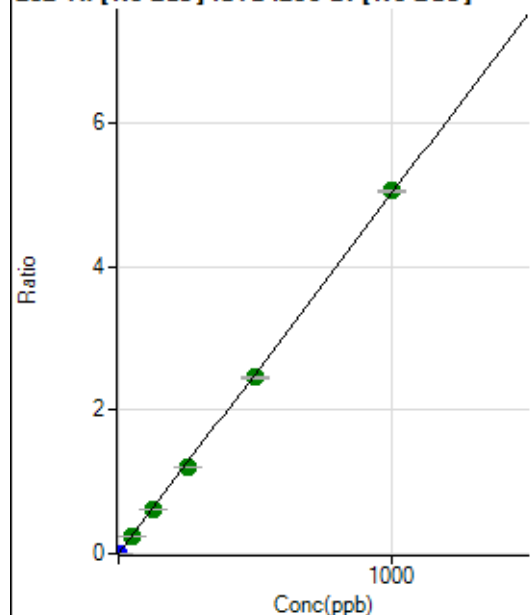
$$DL = 0.008834$$

$$BEC = 0.0438$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0000	P	4.7
2	☐	1.000	0.826	36535.17	0.0042	P	1.3
3	☐	50.000	46.421	2054122.09	0.2328	A	2.3
4	☐	125.000	121.381	5351406.49	0.6087	A	1.9
5	☐	250.000	240.671	10661567.83	1.2068	A	0.7
6	☐	500.000	490.178	21584320.62	2.4579	A	0.8
7	☐	1000.000	1007.875	44032260.24	5.0539	A	0.7
8	☐			6718.47	0.0009	P	7.4

$$y = 0.0050 * x + 1.0992E-005$$

$$R = 0.9999$$

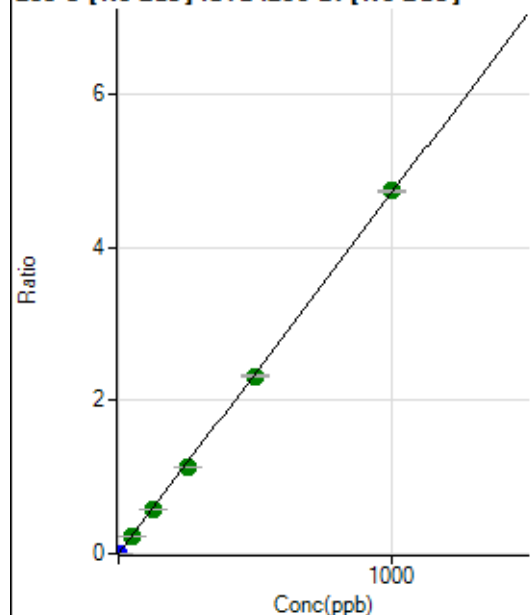
$$DL = 0.0003079$$

$$BEC = 0.002192$$

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	119.45	0.0000	P	40.8
2	☐	1.000	0.834	34656.91	0.0039	P	0.5
3	☐	50.000	46.468	1929543.68	0.2187	A	1.8
4	☐	125.000	121.808	5039737.79	0.5732	A	1.3
5	☐	250.000	240.074	9980890.50	1.1297	A	0.5
6	☐	500.000	492.760	20362533.10	2.3188	A	0.7
7	☐	1000.000	1006.677	41274711.69	4.7372	A	0.5
8	☐			6740.80	0.0009	P	9.7

$$y = 0.0047 * x + 1.3858E-005$$

$$R = 0.9999$$

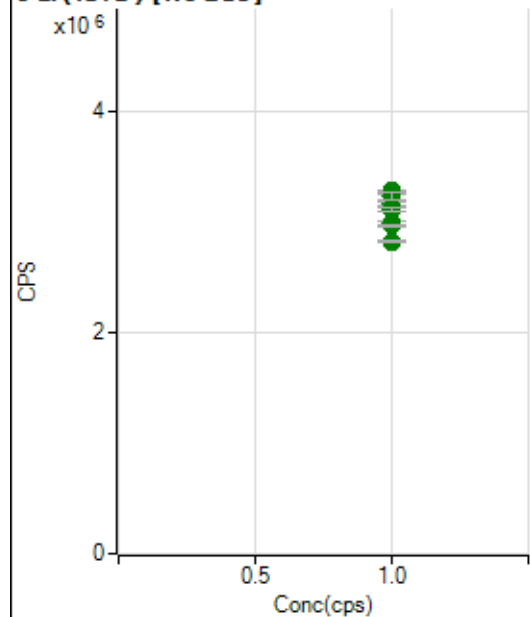
$$DL = 0.003607$$

$$BEC = 0.002945$$

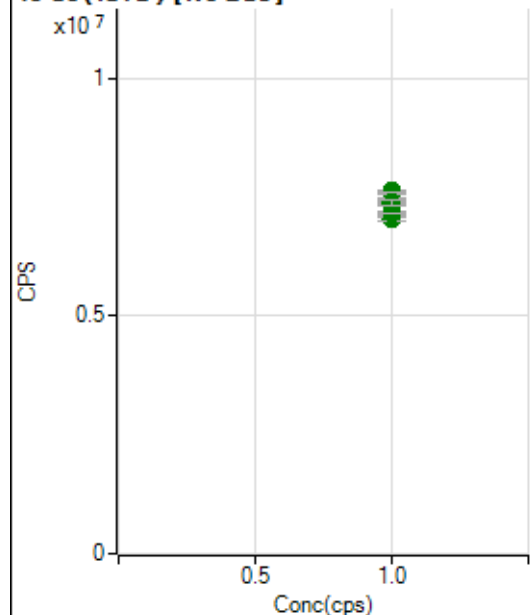
Weight: <None>

Min Conc: 0

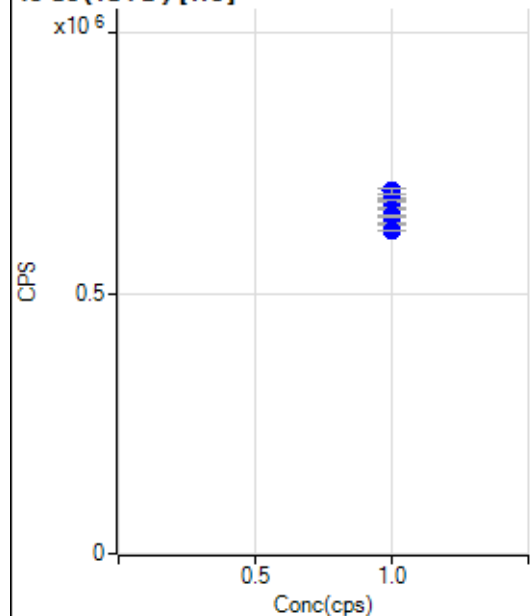
6 Li (ISTD) [No Gas]



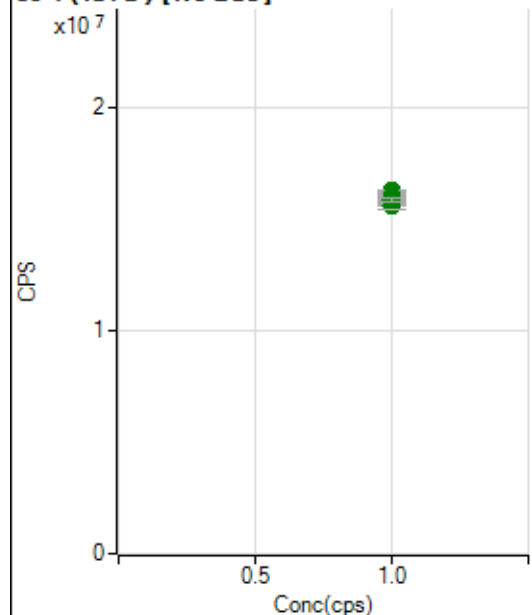
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3156440.71		A	1.1
2	☐	1.000		3276484.01		A	0.2
3	☐	1.000		3254509.60		A	0.7
4	☐	1.000		3230113.81		A	1.9
5	☐	1.000		3110406.34		A	1.1
6	☐	1.000		2982766.83		A	1.5
7	☐	1.000		2962542.39		A	0.6
8	☐	1.000		2820174.78		A	0.2

45 Sc (ISTD) [No Gas]

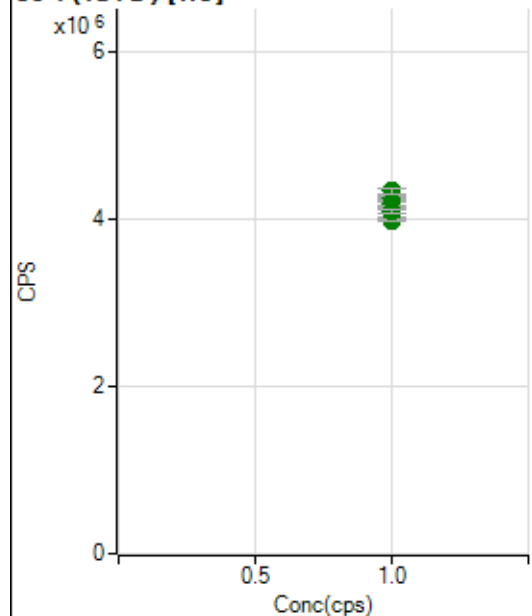
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7447642.11		A	1.1
2	☐	1.000		7628254.61		A	0.1
3	☐	1.000		7571296.97		A	0.5
4	☐	1.000		7415255.72		A	1.5
5	☐	1.000		7160943.71		A	1.2
6	☐	1.000		7035354.89		A	1.3
7	☐	1.000		7150358.50		A	0.2
8	☐	1.000		7373923.71		A	1.5

45 Sc (ISTD) [He]

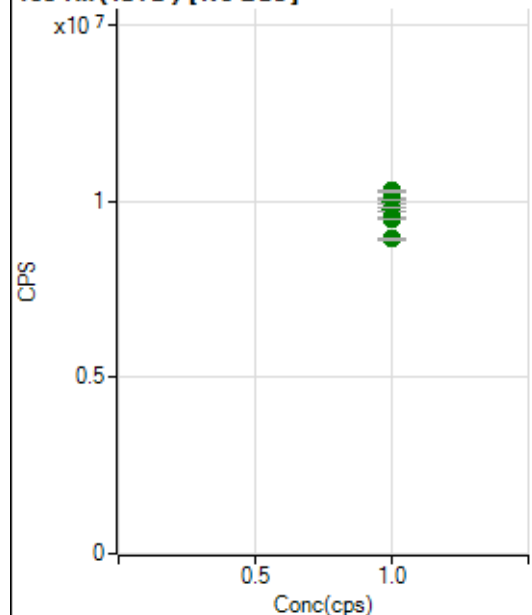
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		676622.50		P	0.5
2	☐	1.000		681806.60		P	0.8
3	☐	1.000		677148.51		P	0.4
4	☐	1.000		661871.94		P	0.6
5	☐	1.000		633041.06		P	0.8
6	☐	1.000		620209.09		P	0.4
7	☐	1.000		648552.53		P	0.6
8	☐	1.000		696700.39		P	1.3

89 Y (ISTD) [No Gas]

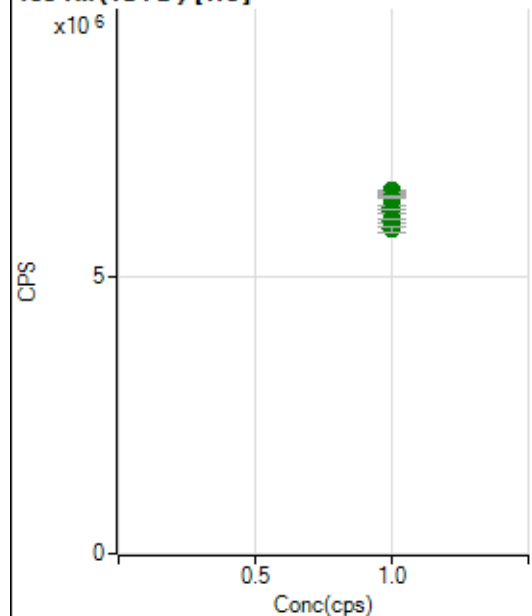
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16008732.26		A	1.0
2	☐	1.000		16236889.62		A	0.8
3	☐	1.000		16230586.29		A	0.9
4	☐	1.000		16019573.09		A	0.3
5	☐	1.000		15644654.21		A	1.4
6	☐	1.000		15545532.68		A	1.3
7	☐	1.000		15862215.46		A	0.2
8	☐	1.000		15857916.85		A	1.3

89 Y (ISTD) [He]

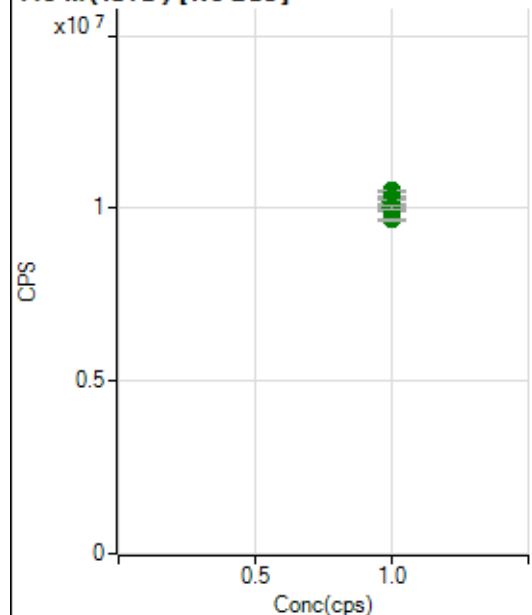
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4234286.88		A	1.0
2	☐	1.000		4267760.28		A	1.1
3	☐	1.000		4191749.48		A	0.9
4	☐	1.000		4160297.54		A	0.7
5	☐	1.000		4020067.68		A	0.7
6	☐	1.000		3989300.39		A	0.3
7	☐	1.000		4103539.45		A	1.2
8	☐	1.000		4342043.06		A	1.7

103 Rh (ISTD) [No Gas]

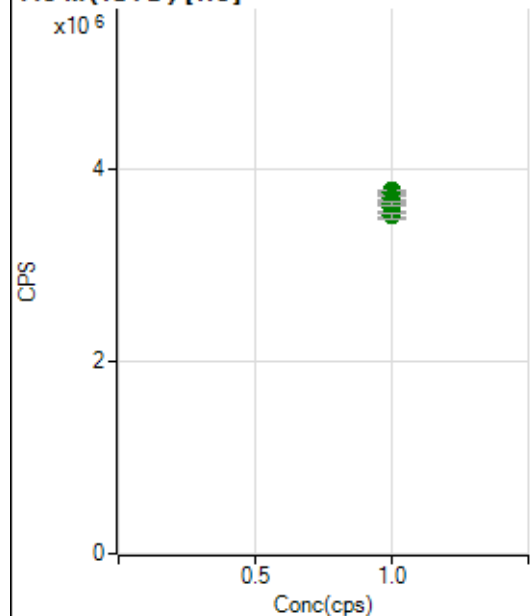
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10022791.65		A	1.7
2	☐	1.000		10299359.22		A	0.6
3	☐	1.000		10287750.19		A	0.2
4	☐	1.000		9993111.45		A	1.0
5	☐	1.000		9787004.44		A	1.3
6	☐	1.000		9545514.93		A	0.4
7	☐	1.000		9485937.98		A	0.2
8	☐	1.000		8931825.98		A	0.6

103 Rh (ISTD) [He]

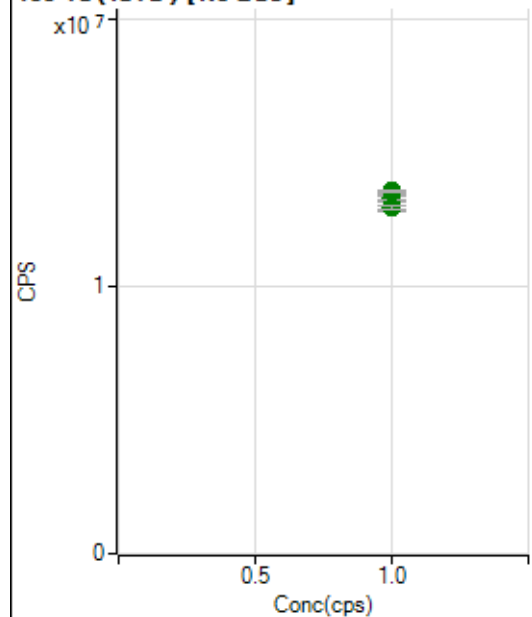
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6558905.66		A	0.9
2	☐	1.000		6530155.39		A	0.7
3	☐	1.000		6438248.79		A	0.6
4	☐	1.000		6270787.61		A	1.1
5	☐	1.000		6176266.78		A	1.0
6	☐	1.000		6020262.48		A	1.0
7	☐	1.000		6047667.82		A	0.5
8	☐	1.000		5861106.02		A	2.2

115 In (ISTD) [No Gas]

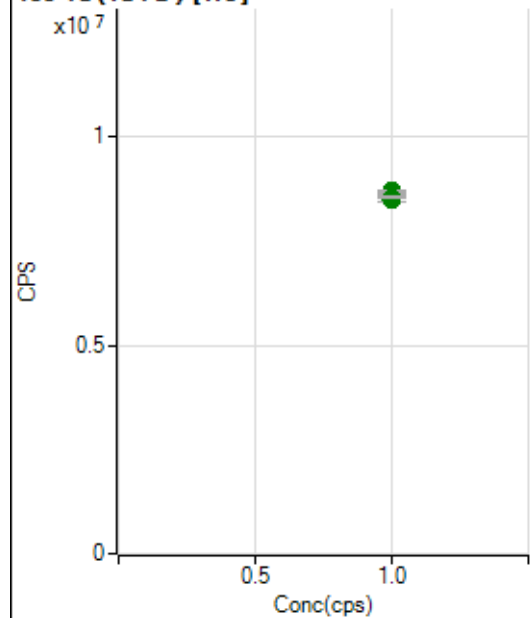
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10187677.58		A	2.8
2	☐	1.000		10465851.66		A	0.4
3	☐	1.000		10503612.22		A	0.1
4	☐	1.000		10275230.00		A	0.4
5	☐	1.000		10189135.93		A	0.8
6	☐	1.000		9917330.24		A	0.4
7	☐	1.000		10026959.81		A	1.5
8	☐	1.000		9662725.42		A	0.7

115 In (ISTD) [He]

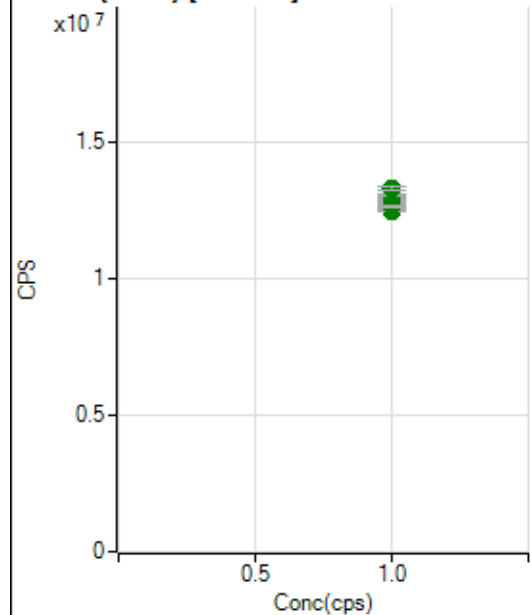
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3767874.52		A	0.2
2	☐	1.000		3755948.39		A	0.7
3	☐	1.000		3699317.47		A	1.2
4	☐	1.000		3656327.93		A	1.0
5	☐	1.000		3591371.17		A	1.6
6	☐	1.000		3517928.98		A	0.9
7	☐	1.000		3506775.83		A	1.5
8	☐	1.000		3632389.99		A	1.1

159 Tb (ISTD) [No Gas]

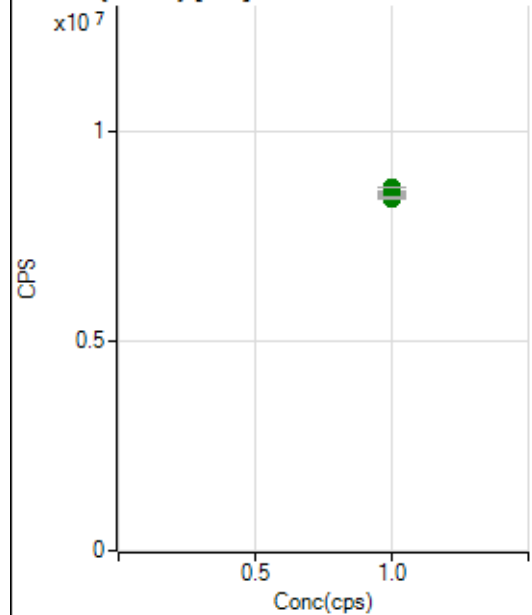
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12914695.36		A	1.8
2	☐	1.000		13159716.33		A	0.1
3	☐	1.000		13341358.97		A	1.1
4	☐	1.000		13279225.78		A	1.8
5	☐	1.000		13408743.13		A	0.4
6	☐	1.000		13341815.50		A	1.1
7	☐	1.000		13569899.80		A	0.9
8	☐	1.000		12941014.39		A	0.9

159 Tb (ISTD) [He]

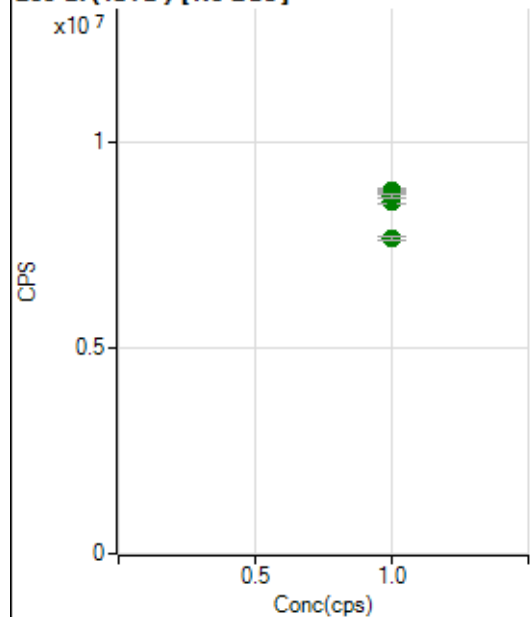
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8495672.24		A	0.8
2	☐	1.000		8658011.95		A	0.3
3	☐	1.000		8685657.93		A	0.7
4	☐	1.000		8621941.26		A	0.2
5	☐	1.000		8602363.27		A	0.9
6	☐	1.000		8564371.12		A	0.2
7	☐	1.000		8707520.71		A	0.7
8	☐	1.000		8556935.57		A	0.7

165 Ho (ISTD) [No Gas]

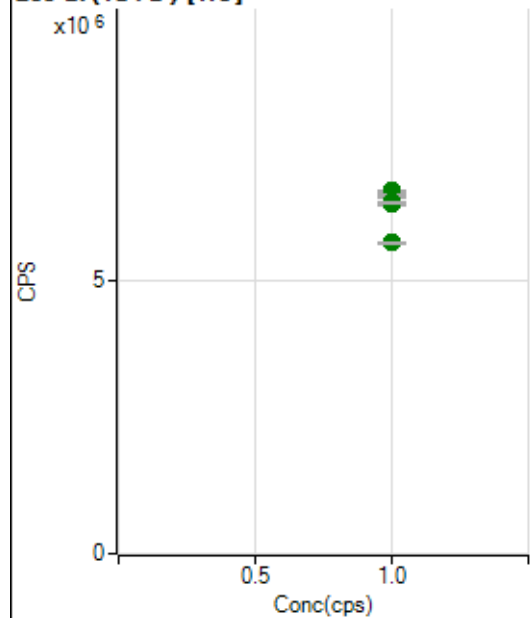
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12477082.73		A	0.9
2	☐	1.000		12807622.31		A	0.8
3	☐	1.000		12947278.14		A	1.4
4	☐	1.000		12832690.22		A	0.9
5	☐	1.000		12949883.28		A	0.5
6	☐	1.000		13040496.06		A	0.6
7	☐	1.000		13267066.19		A	1.2
8	☐	1.000		12625653.56		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8496709.39		A	0.5
2	☐	1.000		8502104.11		A	0.6
3	☐	1.000		8591306.40		A	0.4
4	☐	1.000		8508198.00		A	1.8
5	☐	1.000		8551274.04		A	0.4
6	☐	1.000		8487381.33		A	0.5
7	☐	1.000		8662913.27		A	0.1
8	☐	1.000		8423564.66		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8589695.08		A	1.5
2	☐	1.000		8801221.19		A	0.2
3	☐	1.000		8824683.34		A	1.3
4	☐	1.000		8792355.35		A	1.0
5	☐	1.000		8834589.80		A	0.4
6	☐	1.000		8781810.56		A	0.8
7	☐	1.000		8712964.52		A	0.9
8	☐	1.000		7674189.05		A	1.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6518165.66		A	0.3
2	☐	1.000		6621504.27		A	0.4
3	☐	1.000		6613061.43		A	0.4
4	☐	1.000		6520219.14		A	1.3
5	☐	1.000		6554149.56		A	0.7
6	☐	1.000		6398462.06		A	1.2
7	☐	1.000		6407778.79		A	0.8
8	☐	1.000		5677402.56		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7050222 MS.b

Acq. Date-Time 2022-05-02 10:10:35

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11648	116478.65			0.729	5.000
24		111437	1114369.82			1.113	5.000
25		14520	145197.84			0.286	5.000
26		16500	164995.66			0.412	5.000
59		28665	286645.40			0.311	5.000
113		13064	130639.62			0.576	5.000
115		38267	382673.90			0.336	5.000
206		16983	169827.44			0.455	5.000
207		14375	143748.82			0.516	5.000
208		35476	354762.72			0.244	5.000
220		0	2.80			37.029	

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

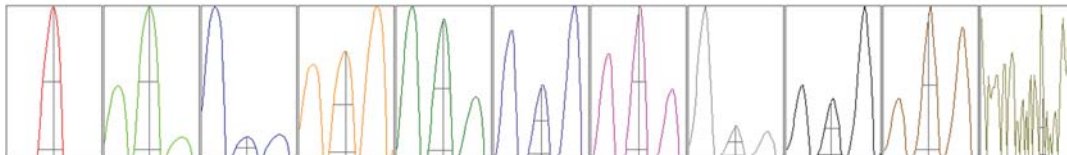
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11731	11718	11647	11623	11520
24	113446	110570	111415	111485	110269
25	14546	14472	14484	14571	14527
26	16612	16511	16443	16456	16476
59	28761	28521	28659	28675	28707
113	13048	13083	12993	13184	13012
115	38117	38284	38158	38414	38364
206	17003	17108	16918	16955	16929
207	14300	14425	14343	14478	14328
208	35385	35596	35486	35400	35514

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21876.47	9.00	8.90 - 9.10	
24	190726.20	23.95	23.90 - 24.10	
25	24586.46	24.95	24.90 - 25.10	
26	28111.67	26.00	25.90 - 26.10	
59	57297.14	59.00	58.90 - 59.10	
113	29721.14	113.05	112.90 - 113.10	
115	91225.60	115.05	114.90 - 115.10	
206	38734.21	206.00	205.90 - 206.10	
207	30694.43	206.95	206.90 - 207.10	
208	77682.22	207.95	207.90 - 208.10	
220	0.25	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.56	0.778	0.900	
24	0.61	0.823	0.900	
25	0.61	0.792	0.900	
26	0.62	0.823	0.900	
59	0.51	0.764	0.900	
113	0.45	0.678	0.900	
115	0.43	0.677	0.900	
206	0.44	0.766	0.900	
207	0.46	0.739	0.900	
208	0.46	0.766	0.900	
220	0.17	0.197		

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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	14.4 V
Extract 2	-160.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-70 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10305	103052.93			0.331	
89		52637	526365.10			0.539	
205		53776	537755.11			0.626	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	10267	10322	10354	10283	10300
89	52392	52943	52748	52816	52284
205	53729	53778	54153	53965	53253

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.73 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	2.8 V
-----------	-------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-75 V	Cell Exit	-60 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	1.0001	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	-0.8 mm	Torch V	0.9 mm
---------	---------	---------	--------

EM

Discriminator	3.1 mV	Analog HV	2167 V	Pulse HV	1420 V
---------------	--------	-----------	--------	----------	--------