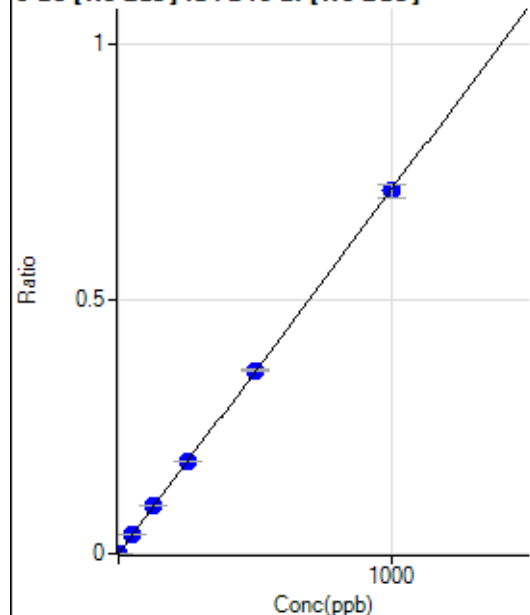


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8082120D.b\
Analysis File: P8082120D.batch.bin
DA Date-Time: 2020-08-21 18:46:26
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-08-21 16:22:43
2	004CALS.d	S02	2020-08-21 16:25:50
3	005CALS.d	S03	2020-08-21 16:28:55
4	006CALS.d	S04	2020-08-21 16:32:01
5	007CALS.d	S05	2020-08-21 16:35:02
6	008CALS.d	S06	2020-08-21 16:38:02
7	009CALS.d	S07	2020-08-21 16:41:00
8	010CALS.d	S08	2020-08-21 16:44:01

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	61.32	0.0000	P	31.6
2	☐	1.000	0.903	888.52	0.0007	P	5.0
3	☐	50.000	51.793	47326.65	0.0371	P	2.3
4	☐	125.000	130.953	120244.77	0.0937	P	2.2
5	☐	250.000	252.901	237745.02	0.1809	P	0.7
6	☐	500.000	504.202	468820.32	0.3606	P	1.7
7	☐	1000.000	996.340	931620.58	0.7125	P	3.7
8	☐			268.62	0.0002	P	11.9

$$y = 7.1508\text{E-}004 * x + 4.9892\text{E-}005$$

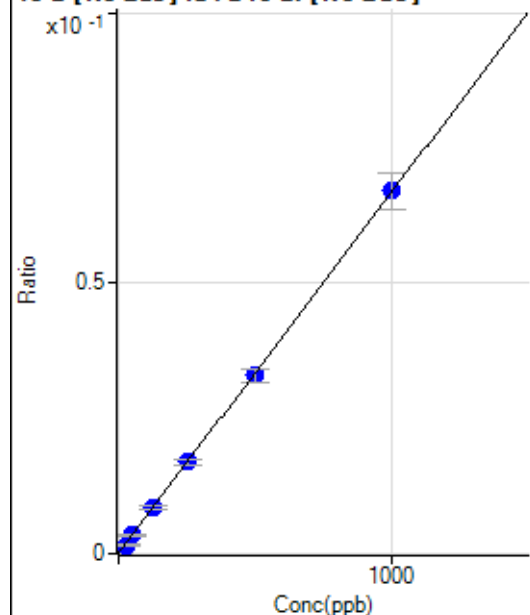
$$R = 1.0000$$

$$DL = 0.06615$$

$$BEC = 0.06977$$

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	189.30	0.0002	P	11.1
2	☐	25.000	20.967	1982.42	0.0016	P	6.6
3	☐	50.000	49.824	4431.13	0.0035	P	9.7
4	☐	125.000	125.008	10877.90	0.0085	P	10.9
5	☐	250.000	251.037	22202.40	0.0169	P	7.2
6	☐	500.000	491.775	42851.71	0.0329	P	7.2
7	☐	1000.000	1003.962	87605.65	0.0671	P	10.4
8	☐			9297.13	0.0069	P	14.3

$$y = 6.6659\text{E-}005 * x + 1.5388\text{E-}004$$

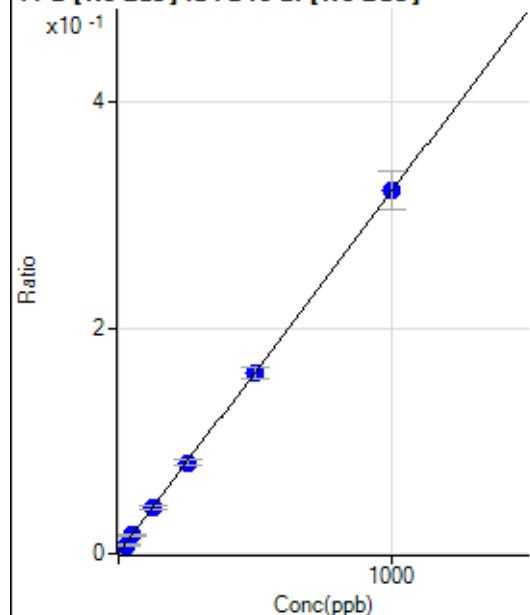
$$R = 0.9999$$

$$DL = 0.7661$$

$$BEC = 2.308$$

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	872.53	0.0007	P	3.1
2	☐	25.000	21.147	9550.57	0.0075	P	8.2
3	☐	50.000	49.979	21296.51	0.0167	P	8.2
4	☐	125.000	126.491	52803.24	0.0412	P	9.8
5	☐	250.000	249.202	105773.82	0.0805	P	6.9
6	☐	500.000	496.988	207826.64	0.1597	P	6.1
7	☐	1000.000	1001.616	419544.03	0.3212	P	10.6
8	☐			43263.08	0.0321	P	14.7

$$y = 3.2001\text{E-}004 * x + 7.0764\text{E-}004$$

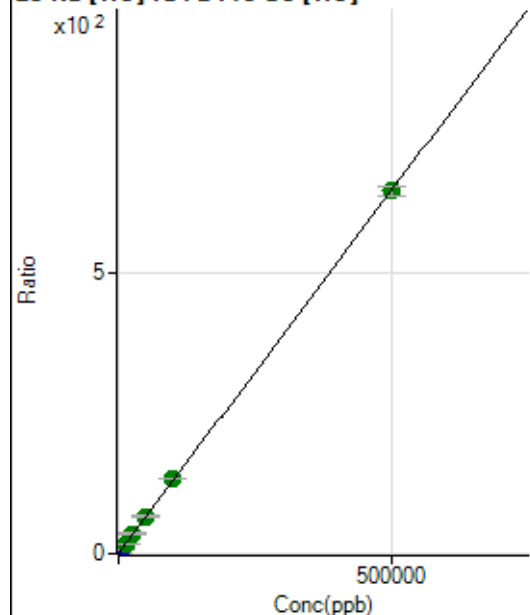
$$R = 1.0000$$

$$DL = 0.2054$$

$$BEC = 2.211$$

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	61064.13	0.5245	P	1.2
2	☐	500.000	489.611	133938.87	1.1585	P	1.8
3	☐	5000.000	5082.783	878286.49	7.1062	P	1.4
4	☐	12500.000	12848.053	2067010.90	17.1615	A	1.0
5	☐	25000.000	26751.623	4077673.27	35.1652	A	5.8
6	☐	50000.000	51203.470	7899524.83	66.8280	A	0.2
7	☐	100000.00	102529.82	15710266.67	133.2905	A	1.3
8	☐	500000.00	499276.58	75981919.75	647.0385	A	2.4

$$y = 0.0013 * x + 0.5245$$

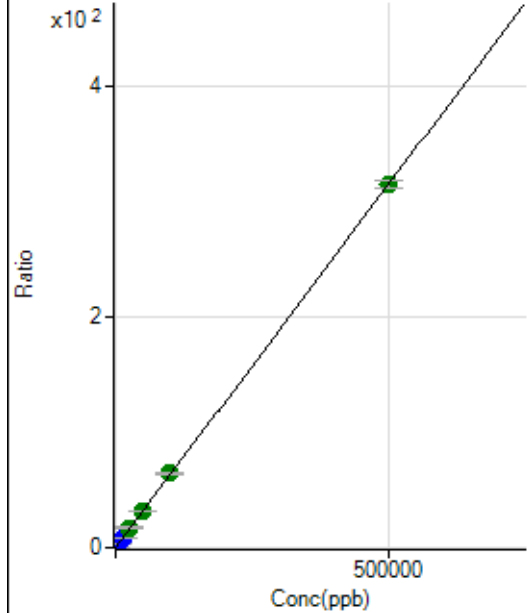
$$R = 1.0000$$

$$DL = 14.26$$

$$BEC = 405.1$$

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	1100.07	0.0095	P	10.6
2	☐	500.000	501.034	37588.01	0.3251	P	2.3
3	☐	5000.000	5124.388	400127.41	3.2373	P	1.2
4	☐	12500.000	13187.689	1001666.22	8.3164	P	0.6
5	☐	25000.000	27047.212	1976958.07	17.0466	A	5.4
6	☐	50000.000	51265.261	3818313.63	32.3017	A	1.1
7	☐	100000.00	102130.23	7583719.09	64.3417	A	0.9
8	☐	500000.00	499326.63	36936705.34	314.5374	A	2.3

$$y = 6.2990\text{E-}004 * x + 0.0095$$

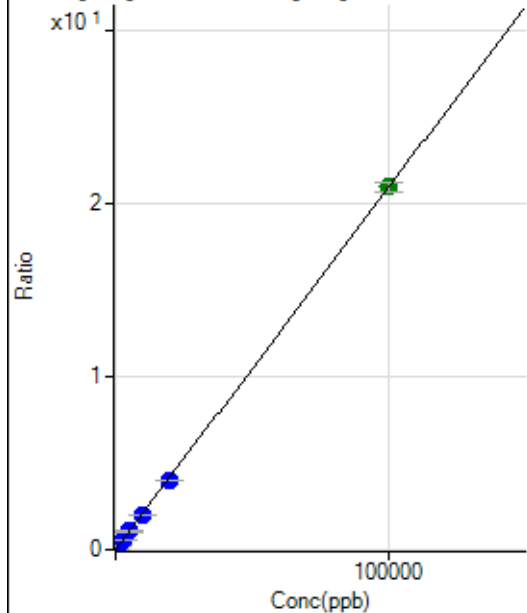
$$R = 1.0000$$

$$DL = 4.772$$

$$BEC = 15.02$$

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	1014.51	0.0087	P	6.1
2	☐	20.000	19.138	1471.79	0.0127	P	4.0
3	☐	1000.000	951.209	25716.19	0.2080	P	1.1
4	☐	2500.000	2440.117	62635.04	0.5201	P	1.1
5	☐	5000.000	5033.086	123334.66	1.0634	P	5.3
6	☐	10000.000	9700.830	241302.34	2.0416	P	1.6
7	☐	20000.000	19274.237	477097.11	4.0477	P	0.5
8	☐	100000.00	100175.40	2466086.78	21.0010	A	2.7

$$y = 2.0955\text{E-}004 * x + 0.0087$$

$$R = 1.0000$$

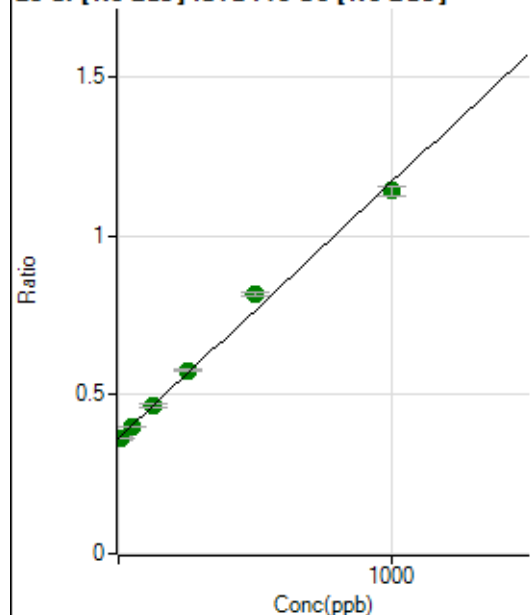
$$DL = 7.618$$

$$BEC = 41.6$$

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	978956.40	0.3640	A	3.8
2	☐	10.000	-1.302	1004999.25	0.3629	A	0.8
3	☐	50.000	45.096	1103965.42	0.4003	A	1.1
4	☐	125.000	127.224	1294764.76	0.4666	A	1.9
5	☐	250.000	264.846	1621262.41	0.5776	A	1.2
6	☐	500.000	562.769	2311023.51	0.8178	A	2.0
7	☐	1000.000	964.984	3205018.10	1.1422	A	2.4
8	☐			1116970.89	0.3823	A	4.4

$$y = 8.0646\text{E-}004 * x + 0.3640$$

$$R = 0.9966$$

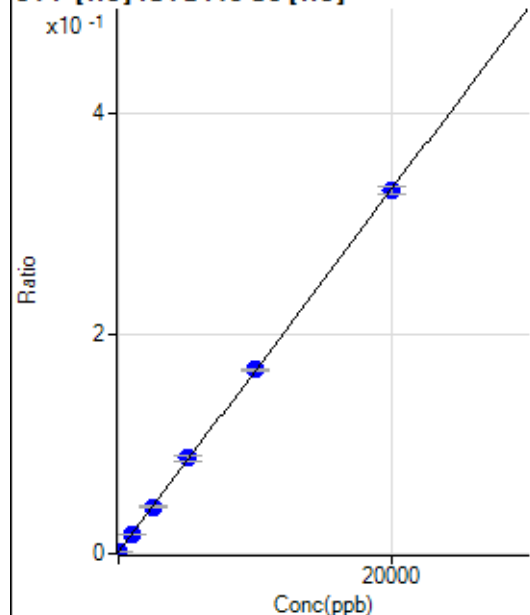
$$DL = 51.69$$

$$BEC = 451.3$$

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	-22.060	125.00	0.0011	P	21.8
2	☐	0.000	22.060	208.34	0.0018	P	8.4
3	☐	1000.000	998.262	2211.35	0.0179	P	3.4
4	☐	2500.000	2494.621	5126.03	0.0426	P	4.8
5	☐	5000.000	5189.047	10087.08	0.0870	P	5.3
6	☐	10000.000	10070.950	19788.88	0.1674	P	1.3
7	☐	20000.000	19918.022	38860.93	0.3297	P	2.0
8	☐			177.78	0.0015	P	5.8

$$y = 1.6481\text{E-}005 * x + 0.0014$$

$$R = 0.9999$$

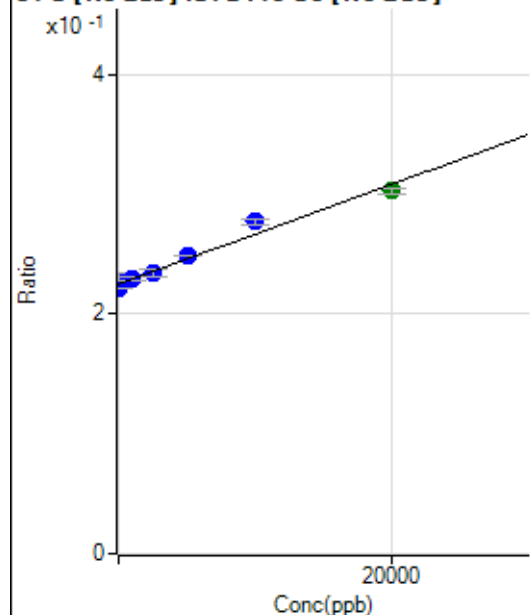
$$DL = 35.07$$

$$BEC = 87.36$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	843.815	614659.93	0.2286	P	4.9
2	☐	0.000	-843.815	613588.92	0.2216	P	0.3
3	☐	1000.000	1031.223	632530.24	0.2294	P	1.1
4	☐	2500.000	2145.032	649286.17	0.2340	P	2.7
5	☐	5000.000	5628.784	697595.27	0.2485	P	0.4
6	☐	10000.000	12455.913	782537.75	0.2769	P	1.4
7	☐	20000.000	18657.657	849494.92	0.3027	A	1.5
8	☐			597863.85	0.2046	P	4.6

$$y = 4.1611\text{E-}006 * x + 0.2251$$

$$R = 0.9851$$

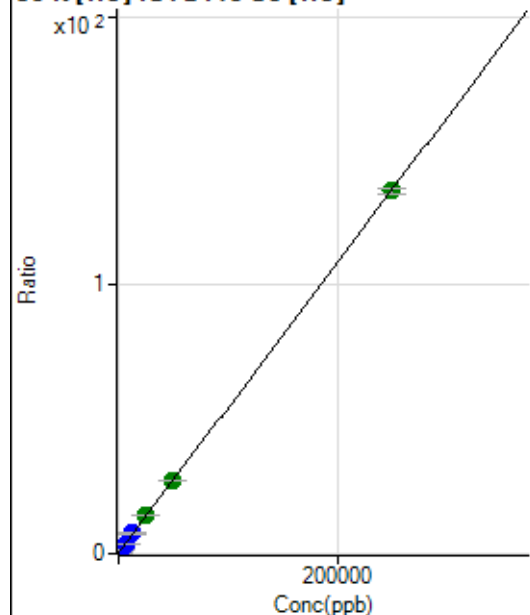
$$DL = 4229$$

$$BEC = 5.409\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35989.75	0.3092	P	2.1
2	☐	500.000	483.918	65934.35	0.5704	P	2.4
3	☐	2500.000	2487.981	204204.95	1.6522	P	1.6
4	☐	6250.000	6493.116	459385.94	3.8141	P	0.9
5	☐	12500.000	13431.257	876833.77	7.5593	P	5.0
6	☐	25000.000	25694.921	1676078.95	14.1793	A	0.4
7	☐	50000.000	50227.640	3232261.46	27.4220	A	0.3
8	☐	250000.00	249832.49	15874151.74	135.1688	A	1.6

$$y = 5.3980\text{E-}004 * x + 0.3092$$

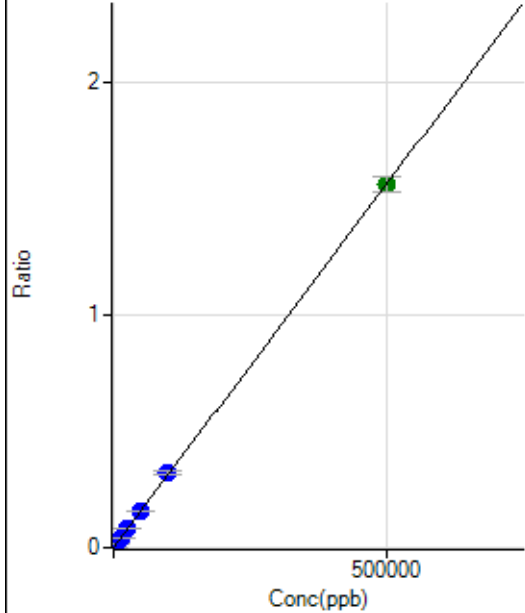
$$R = 1.0000$$

$$DL = 36.48$$

$$BEC = 572.7$$

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	472.24	0.0002	P	8.8
2	☐	500.000	474.545	4581.43	0.0017	P	7.0
3	☐	5000.000	5254.122	45640.14	0.0166	P	2.7
4	☐	12500.000	13142.612	114153.49	0.0411	P	2.4
5	☐	25000.000	25613.051	224584.61	0.0800	P	0.3
6	☐	50000.000	51303.281	452388.32	0.1601	P	0.6
7	☐	100000.00	103046.37	901626.40	0.3213	P	3.4
8	☐	500000.00	499211.16	4546970.89	1.5561	A	4.1

$$y = 3.1168\text{E-}006 * x + 1.7539\text{E-}004$$

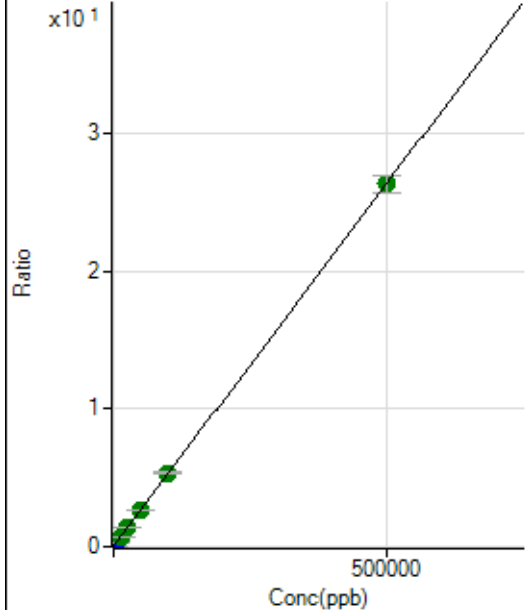
$$R = 1.0000$$

$$DL = 14.92$$

$$BEC = 56.27$$

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	83552.61	0.0311	P	3.7
2	☐	500.000	460.560	153096.80	0.0553	P	1.1
3	☐	5000.000	5343.920	860685.00	0.3121	P	2.0
4	☐	12500.000	12937.585	1974095.35	0.7115	A	2.9
5	☐	25000.000	25141.075	3799095.88	1.3534	A	0.7
6	☐	50000.000	49671.208	7471278.12	2.6435	A	0.7
7	☐	100000.00	100549.93	14925639.92	5.3195	A	3.0
8	☐	500000.00	499901.50	76901278.11	26.3235	A	4.8

$$y = 5.2595\text{E-}005 * x + 0.0311$$

$$R = 1.0000$$

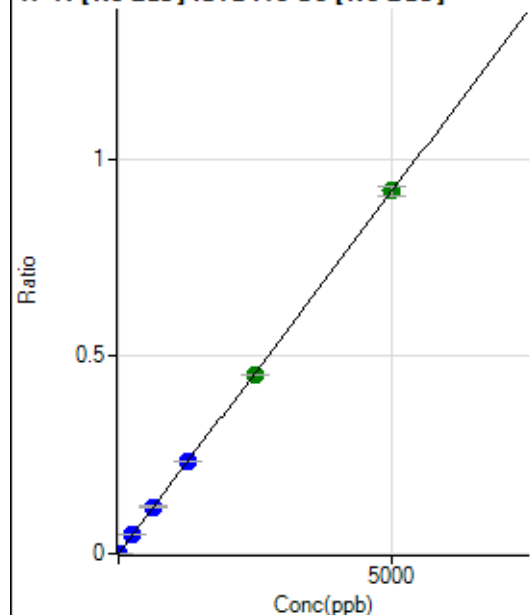
$$DL = 64.74$$

$$BEC = 590.6$$

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	563.91	0.0002	P	13.0
2	☐	5.000	5.191	3217.12	0.0012	P	4.0
3	☐	250.000	259.325	131674.31	0.0477	P	1.7
4	☐	625.000	642.526	327316.07	0.1180	P	3.9
5	☐	1250.000	1268.203	653203.28	0.2327	P	0.2
6	☐	2500.000	2464.563	1277481.44	0.4520	A	0.7
7	☐	5000.000	5010.510	2577906.35	0.9187	A	2.4
8	☐			905.61	0.0003	P	16.6

$$y = 1.8332\text{E-}004 * x + 2.1021\text{E-}004$$

$$R = 1.0000$$

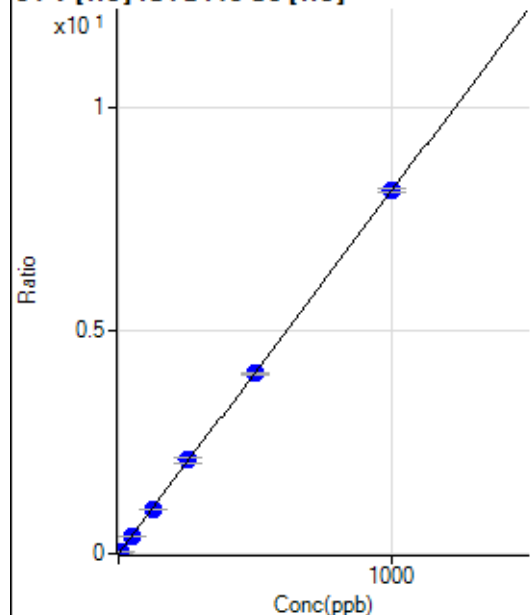
$$DL = 0.4473$$

$$BEC = 1.147$$

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	21.11	0.0002	P	31.5
2	☐	5.000	4.822	4562.99	0.0395	P	1.0
3	☐	50.000	47.932	48282.23	0.3907	P	2.2
4	☐	125.000	123.916	121617.78	1.0097	P	0.3
5	☐	250.000	257.297	243121.42	2.0963	P	5.6
6	☐	500.000	496.702	478325.57	4.0467	P	0.9
7	☐	1000.000	1000.064	960321.10	8.1476	P	1.0
8	☐			144.45	0.0012	P	6.1

$$y = 0.0081 * x + 1.8057\text{E-}004$$

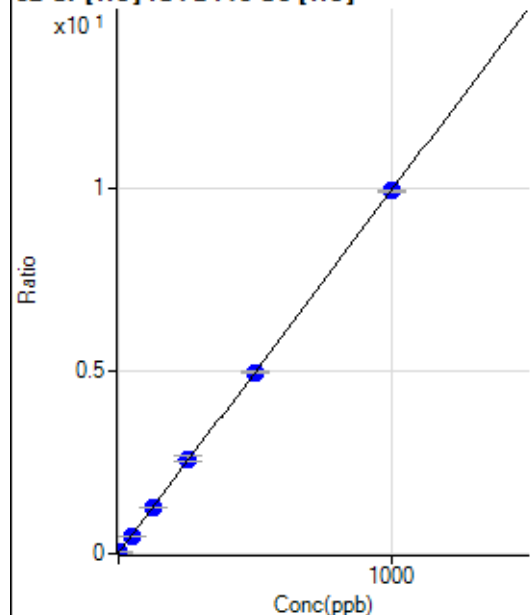
$$R = 1.0000$$

$$DL = 0.02094$$

$$BEC = 0.02216$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1406.75	0.0121	P	0.4
2	☐	2.000	2.011	3710.51	0.0321	P	3.9
3	☐	50.000	48.421	61071.99	0.4941	P	1.6
4	☐	125.000	125.952	152479.60	1.2660	P	0.6
5	☐	250.000	259.899	301507.59	2.5995	P	5.0
6	☐	500.000	497.951	587363.97	4.9694	P	1.4
7	☐	1000.000	998.510	1173109.43	9.9527	P	0.5
8	☐			5796.78	0.0494	P	1.5

$$y = 0.0100 * x + 0.0121$$

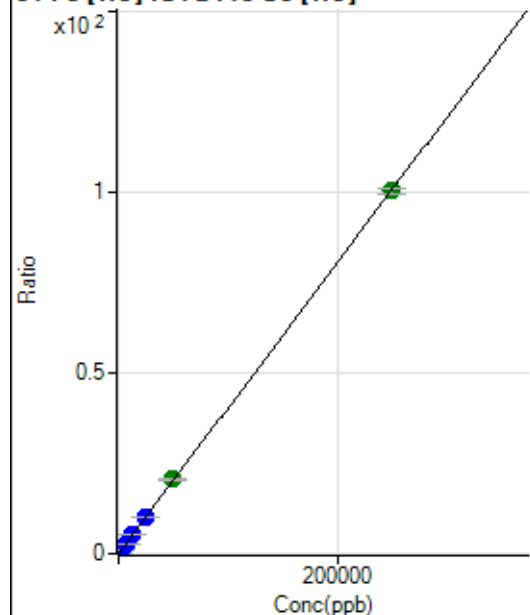
$$R = 0.9999$$

$$DL = 0.0143$$

$$BEC = 1.214$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	703.73	0.0061	P	18.2
2	☐	50.000	44.091	2750.32	0.0238	P	6.3
3	☐	2500.000	2511.394	125567.11	1.0159	P	1.7
4	☐	6250.000	6425.114	311906.52	2.5897	P	1.1
5	☐	12500.000	13186.113	615609.48	5.3085	P	5.5
6	☐	25000.000	25430.747	1209410.99	10.2323	P	1.4
7	☐	50000.000	51023.473	2419171.12	20.5236	A	0.8
8	☐	250000.00	249713.43	11793057.90	100.4207	A	1.9

$$y = 4.0212E-004 * x + 0.0061$$

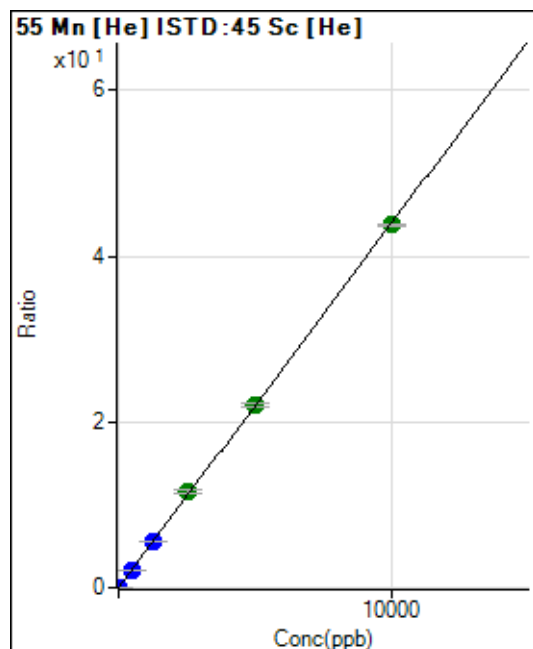
$$R = 1.0000$$

$$DL = 8.245$$

$$BEC = 15.07$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	196.67	0.0017	P	20.0
2	☐	1.000	1.038	723.36	0.0063	P	6.1
3	☐	500.000	496.943	270258.41	2.1866	P	1.4
4	☐	1250.000	1280.819	678448.28	5.6332	P	1.3
5	☐	2500.000	2624.388	1338617.17	11.5406	A	4.9
6	☐	5000.000	5023.595	2610847.98	22.0894	A	1.7
7	☐	10000.000	9953.406	5158560.83	43.7647	A	0.2
8	☐			3866.11	0.0329	P	2.1

$$y = 0.0044 * x + 0.0017$$

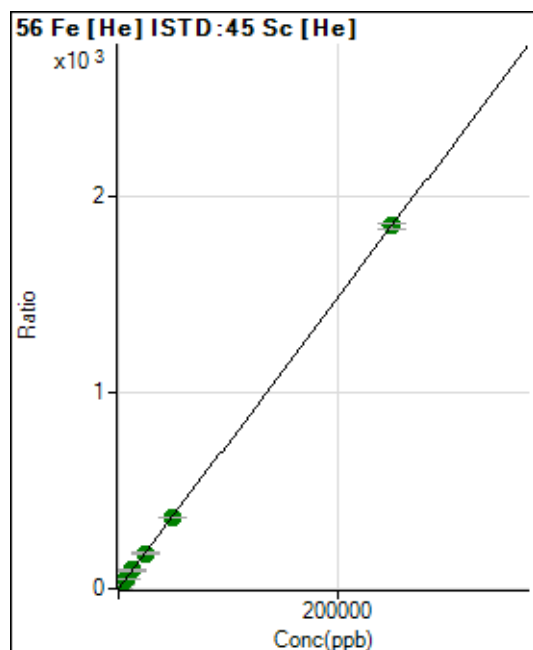
$$R = 0.9999$$

$$DL = 0.2315$$

$$BEC = 0.3853$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8565.66	0.0736	P	3.9
2	☐	50.000	45.093	47001.50	0.4066	P	3.1
3	☐	2500.000	2453.408	2248300.05	18.1915	A	1.7
4	☐	6250.000	6217.751	5539426.46	45.9903	A	1.4
5	☐	12500.000	12755.772	10935904.87	94.2722	A	4.6
6	☐	25000.000	24442.991	21343347.00	180.5797	A	1.8
7	☐	50000.000	49086.571	42735781.51	362.5671	A	0.5
8	☐	250000.00	250226.87	217034238.1	1,847.944	A	1.3

$$y = 0.0074 * x + 0.0736$$

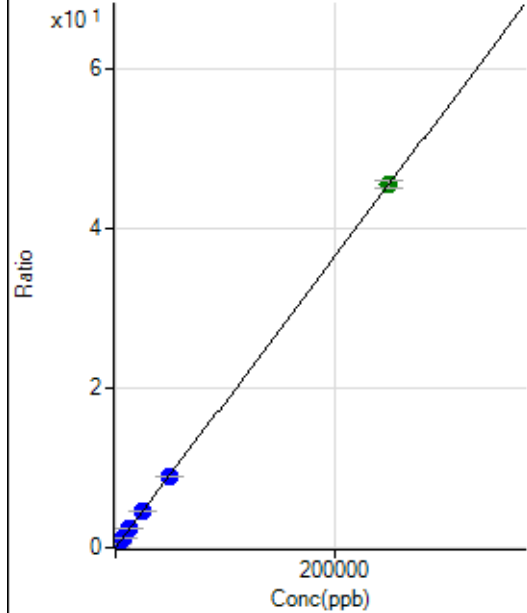
$$R = 1.0000$$

$$DL = 1.164$$

$$BEC = 9.967$$

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	307.42	0.0026	P	12.0
2	☐	50.000	44.890	1246.37	0.0108	P	5.4
3	☐	2500.000	2425.333	54736.26	0.4429	P	2.6
4	☐	6250.000	6293.641	137921.38	1.1451	P	1.3
5	☐	12500.000	12975.904	273577.21	2.3582	P	4.4
6	☐	25000.000	24793.260	532272.59	4.5034	P	1.7
7	☐	50000.000	49620.660	1062057.77	9.0104	P	0.1
8	☐	250000.00	250072.40	5331394.62	45.3990	A	2.2

$$y = 1.8153\text{E-}004 * x + 0.0026$$

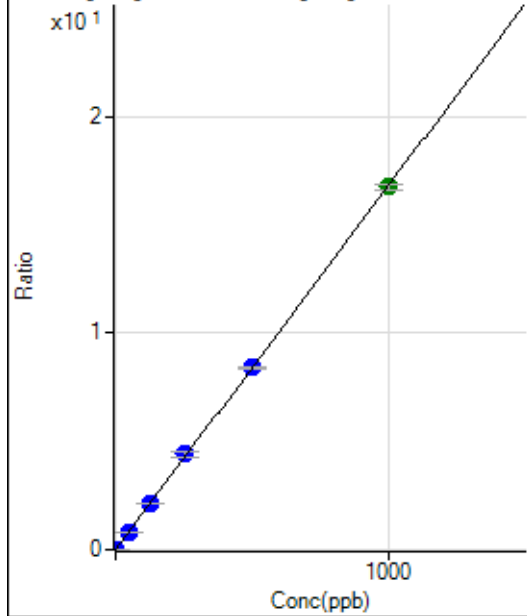
$$R = 1.0000$$

$$DL = 5.236$$

$$BEC = 14.52$$

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	60.00	0.0005	P	5.3
2	☐	1.000	0.959	1921.26	0.0166	P	2.2
3	☐	50.000	49.151	102063.67	0.8259	P	2.3
4	☐	125.000	126.416	255722.96	2.1233	P	1.5
5	☐	250.000	262.914	512073.15	4.4154	P	5.3
6	☐	500.000	500.288	993017.68	8.4013	P	1.2
7	☐	1000.000	996.493	1972299.90	16.7336	A	1.5
8	☐			3546.03	0.0302	P	4.6

$$y = 0.0168 * x + 5.1535\text{E-}004$$

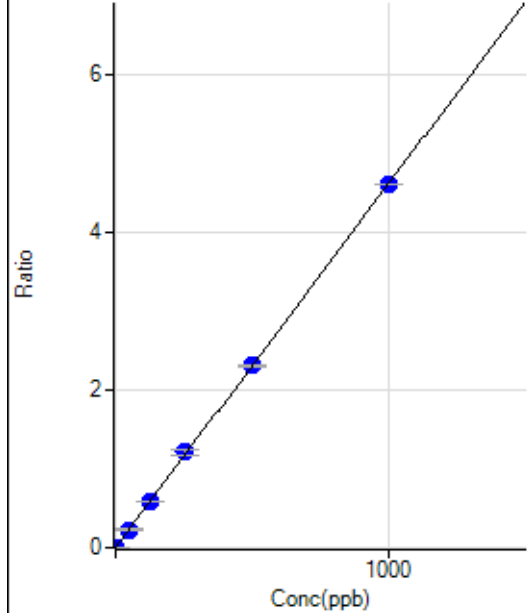
$$R = 0.9999$$

$$DL = 0.004889$$

$$BEC = 0.03069$$

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	182.22	0.0016	P	18.4
2	☐	1.000	0.992	710.02	0.0061	P	4.4
3	☐	50.000	49.781	28594.33	0.2314	P	2.7
4	☐	125.000	127.622	71154.49	0.5908	P	1.3
5	☐	250.000	261.428	140175.86	1.2085	P	5.1
6	☐	500.000	499.475	272737.24	2.3076	P	1.9
7	☐	1000.000	997.089	542792.34	4.6050	P	0.2
8	☐			1979.04	0.0168	P	1.4

$$y = 0.0046 * x + 0.0016$$

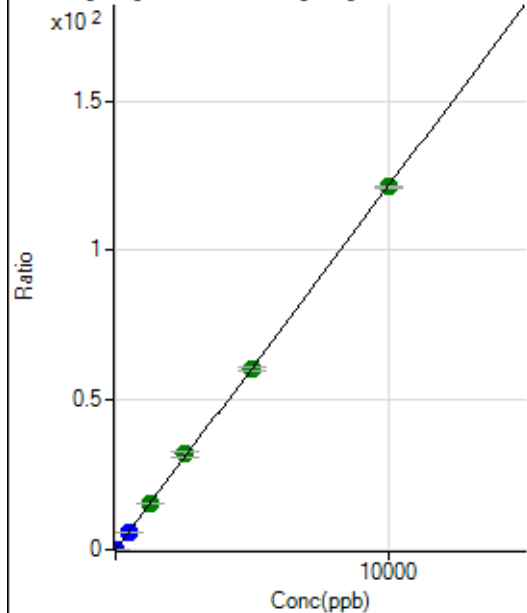
$$R = 0.9999$$

$$DL = 0.1865$$

$$BEC = 0.338$$

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	762.25	0.0066	P	5.9
2	☐	2.000	2.102	3711.63	0.0321	P	3.3
3	☐	500.000	496.823	747272.28	6.0465	P	1.9
4	☐	1250.000	1281.763	1877635.84	15.5892	A	0.3
5	☐	2500.000	2622.659	3698064.70	31.8907	A	5.8
6	☐	5000.000	4984.054	7162058.29	60.5986	A	2.2
7	☐	10000.000	9973.497	14292181.18	121.2561	A	0.5
8	☐			4700.83	0.0400	P	3.4

$$y = 0.0122 * x + 0.0066$$

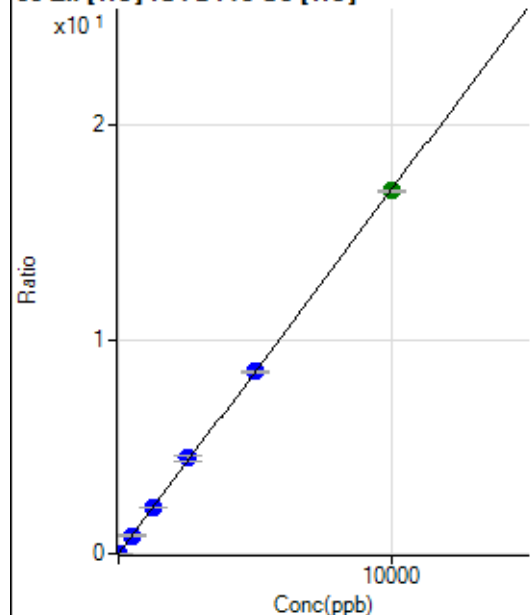
$$R = 0.9999$$

$$DL = 0.0952$$

$$BEC = 0.5389$$

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	246.67	0.0021	P	25.2
2	☐	2.000	1.842	606.69	0.0052	P	6.0
3	☐	500.000	497.682	104691.76	0.8471	P	1.8
4	☐	1250.000	1276.538	261294.61	2.1695	P	1.1
5	☐	2500.000	2625.385	517176.10	4.4596	P	5.5
6	☐	5000.000	5000.169	1003652.89	8.4917	P	1.7
7	☐	10000.000	9965.368	1994589.62	16.9218	A	0.3
8	☐			2865.87	0.0244	P	2.6

$$y = 0.0017 * x + 0.0021$$

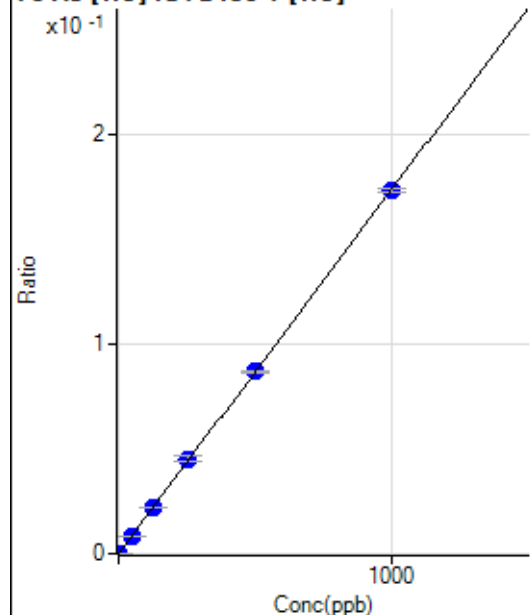
$$R = 0.9999$$

$$DL = 0.9412$$

$$BEC = 1.247$$

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	19.33	0.0000	P	33.0
2	☐	1.000	0.913	160.02	0.0002	P	18.7
3	☐	50.000	49.258	8016.76	0.0086	P	3.3
4	☐	125.000	125.993	20176.72	0.0219	P	1.1
5	☐	250.000	259.212	39918.73	0.0451	P	6.1
6	☐	500.000	501.255	78522.98	0.0872	P	1.0
7	☐	1000.000	996.982	157614.93	0.1734	P	1.1
8	☐			73.34	0.0001	P	11.8

$$y = 1.7390E-004 * x + 2.1652E-005$$

$$R = 0.9999$$

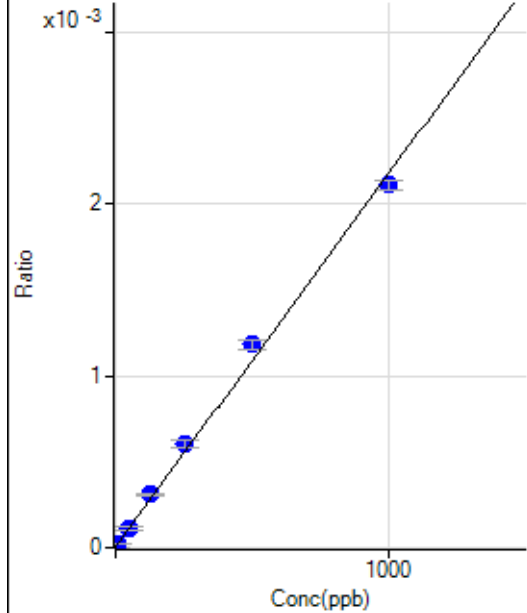
$$DL = 0.1231$$

$$BEC = 0.1245$$

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	3.33	0.0000	P	1.4
2	☐	5.000	8.615	20.00	0.0000	P	42.9
3	☐	50.000	49.775	104.45	0.0001	P	22.0
4	☐	125.000	141.722	286.67	0.0003	P	4.4
5	☐	250.000	275.943	535.57	0.0006	P	7.3
6	☐	500.000	542.027	1063.39	0.0012	P	4.8
7	☐	1000.000	970.404	1919.04	0.0021	P	2.6
8	☐			3.33	0.0000	P	99.8

$$y = 2.1718\text{E-}006 * x + 3.7318\text{E-}006$$

$$R = 0.9982$$

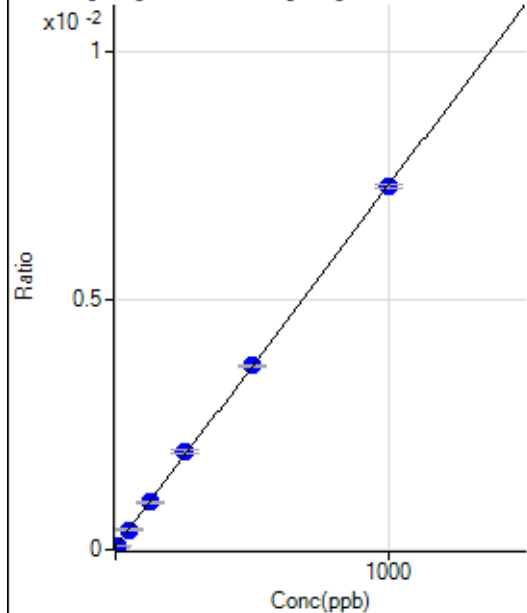
$$DL = 0.06962$$

$$BEC = 1.718$$

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	42.00	0.0000	P	12.7
2	☐	5.000	4.310	69.34	0.0001	P	8.2
3	☐	50.000	48.345	371.04	0.0004	P	6.2
4	☐	125.000	124.944	877.12	0.0010	P	2.6
5	☐	250.000	262.471	1727.95	0.0020	P	4.2
6	☐	500.000	501.963	3321.07	0.0037	P	1.2
7	☐	1000.000	995.994	6609.22	0.0073	P	0.9
8	☐			41.34	0.0000	P	17.6

$$y = 7.2528\text{E-}006 * x + 4.7044\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.473$$

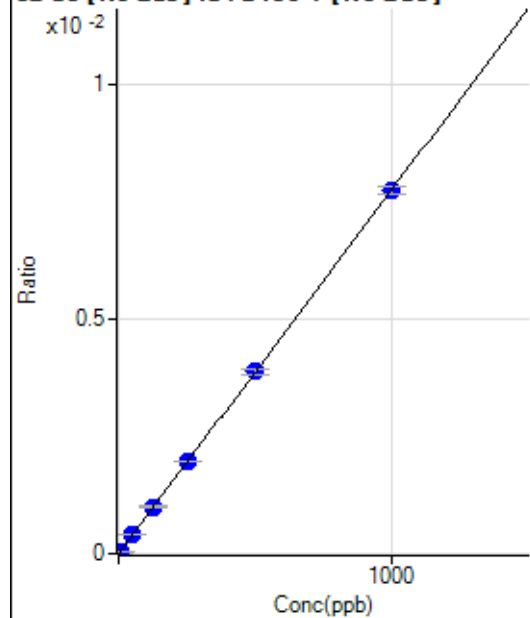
$$BEC = 6.486$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2165.74		P	15.8
2	☐			2299.23		P	3.2
3	☐			2132.36		P	2.8
4	☐			2813.18		P	7.9
5	☐			2739.77		P	5.2
6	☐			2045.59		P	1.6
7	☐			2085.64		P	6.0
8	☐			2636.30		P	6.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-40.30	0.0000	P	-56.1
2	☐	5.000	5.593	289.48	0.0000	P	13.1
3	☐	50.000	51.182	2987.18	0.0004	P	3.4
4	☐	125.000	128.932	7591.45	0.0010	P	4.0
5	☐	250.000	252.921	15212.48	0.0020	P	0.9
6	☐	500.000	500.903	29812.24	0.0039	P	2.6
7	☐	1000.000	998.265	59568.74	0.0077	P	2.3
8	☐			4.36	0.0000	P	7352.

$$y = 7.7633E-006 * x - 5.4413E-006$$

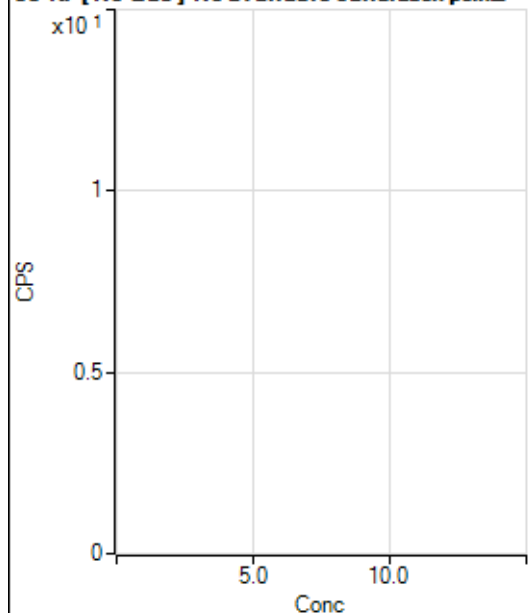
$$R = 1.0000$$

$$DL = 1.18$$

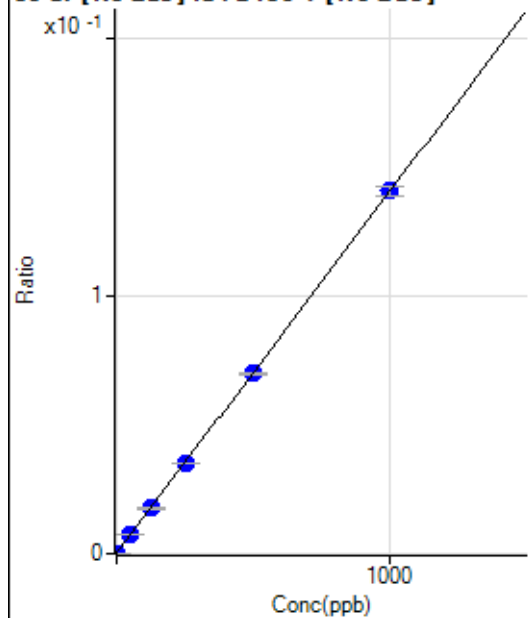
$$BEC = -0.7009$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			741.14		P	0.9
2	☐			686.69		P	8.1
3	☐			698.91		P	8.6
4	☐			701.14		P	6.9
5	☐			705.58		P	6.9
6	☐			721.14		P	7.9
7	☐			698.92		P	3.6
8	☐			746.69		P	4.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1130.63	0.0002	P	12.2
2	☐	1.000	0.962	2211.34	0.0003	P	5.6
3	☐	50.000	50.419	55031.23	0.0072	P	3.5
4	☐	125.000	125.984	135785.46	0.0178	P	4.3
5	☐	250.000	247.568	270716.50	0.0348	P	0.5
6	☐	500.000	496.396	535282.29	0.0697	P	1.5
7	☐	1000.000	1002.266	1081354.69	0.1406	P	2.8
8	☐			6901.89	0.0009	P	2.7

$$y = 1.4012E-004 * x + 1.5524E-004$$

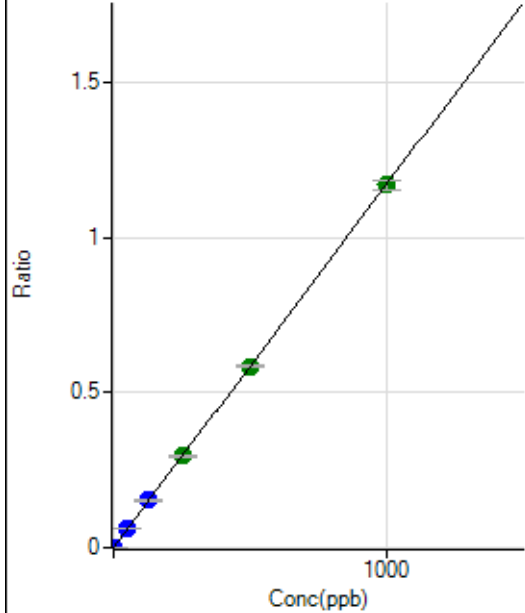
$$R = 1.0000$$

$$DL = 0.4068$$

$$BEC = 1.108$$

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	147.23	0.0000	P	13.1
2	☐	1.000	0.952	8652.91	0.0011	P	0.8
3	☐	50.000	52.050	464988.28	0.0610	P	1.6
4	☐	125.000	131.186	1172097.71	0.1537	P	3.2
5	☐	250.000	251.804	2291690.55	0.2950	A	1.4
6	☐	500.000	500.089	4498222.10	0.5858	A	1.3
7	☐	1000.000	998.629	8996319.21	1.1697	A	3.0
8	☐			52290.18	0.0066	P	6.5

$$y = 0.0012 * x + 2.0213E-005$$

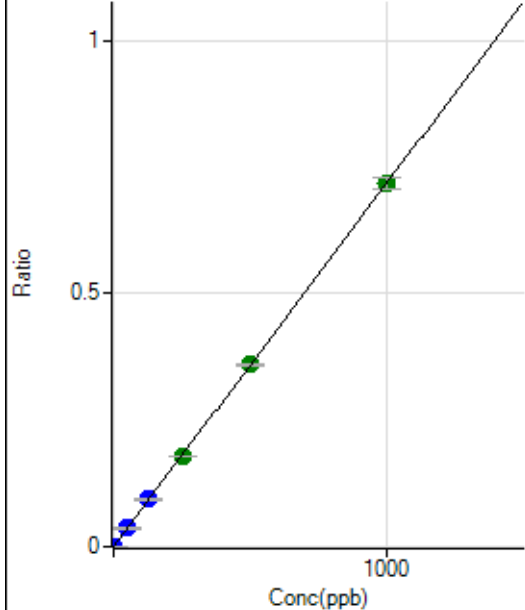
$$R = 1.0000$$

$$DL = 0.006779$$

$$BEC = 0.01726$$

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	280.57	0.0000	P	13.1
2	☐	1.000	0.953	5501.23	0.0007	P	3.7
3	☐	50.000	51.241	280288.98	0.0368	P	3.8
4	☐	125.000	130.194	712147.36	0.0934	P	3.9
5	☐	250.000	249.599	1390750.03	0.1790	A	0.9
6	☐	500.000	500.546	2756097.59	0.3589	A	1.9
7	☐	1000.000	999.116	5509914.79	0.7164	A	3.0
8	☐			1983.53	0.0003	P	17.6

$$y = 7.1700E-004 * x + 3.8378E-005$$

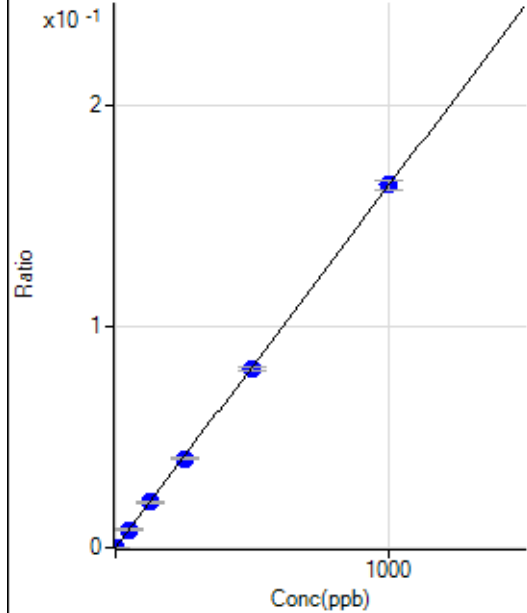
$$R = 1.0000$$

$$DL = 0.02096$$

$$BEC = 0.05353$$

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	61.11	0.0000	P	33.1
2	☐	1.000	0.881	1163.97	0.0002	P	16.5
3	☐	50.000	49.792	62202.81	0.0082	P	3.4
4	☐	125.000	125.830	157218.85	0.0206	P	3.0
5	☐	250.000	247.127	314450.60	0.0405	P	0.8
6	☐	500.000	495.303	622780.55	0.0811	P	1.9
7	☐	1000.000	1002.974	1263234.23	0.1642	P	2.5
8	☐			475.02	0.0001	P	15.5

$$y = 1.6374\text{E-}004 * x + 8.3593\text{E-}006$$

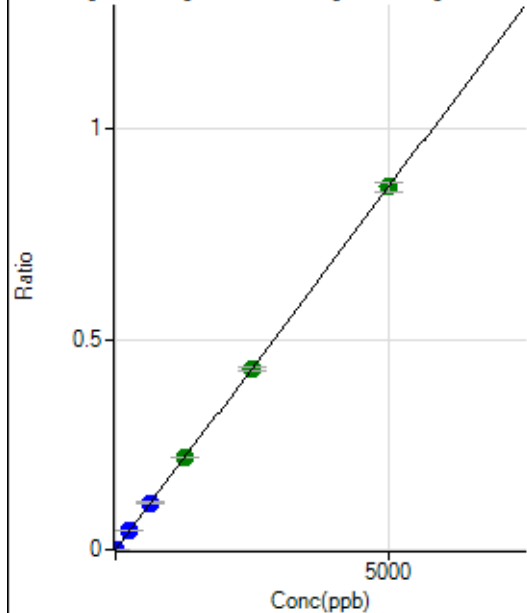
$$R = 1.0000$$

$$DL = 0.05068$$

$$BEC = 0.05105$$

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	158.34	0.0000	P	24.4
2	☐	5.000	4.667	6309.97	0.0008	P	3.6
3	☐	250.000	255.692	336770.41	0.0442	P	2.3
4	☐	625.000	645.695	850664.61	0.1115	P	2.7
5	☐	1250.000	1266.735	1699668.99	0.2188	A	0.4
6	☐	2500.000	2486.036	3296374.49	0.4293	A	1.8
7	☐	5000.000	4999.927	6641072.11	0.8634	A	2.4
8	☐			2333.59	0.0003	P	9.2

$$y = 1.7268\text{E-}004 * x + 2.1827\text{E-}005$$

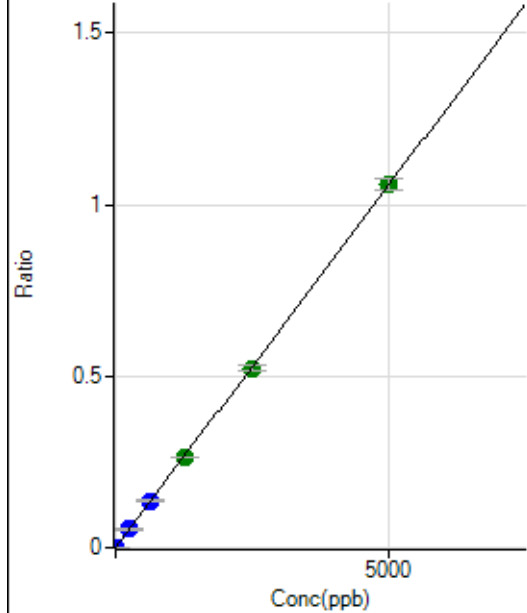
$$R = 1.0000$$

$$DL = 0.09238$$

$$BEC = 0.1264$$

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	100.00	0.0000	P	32.7
2	☐	5.000	4.671	7624.51	0.0010	P	2.0
3	☐	250.000	253.894	408927.07	0.0536	P	2.2
4	☐	625.000	645.896	1040393.89	0.1364	P	4.0
5	☐	1250.000	1251.498	2053875.24	0.2643	A	0.4
6	☐	2500.000	2478.589	4019397.44	0.5235	A	2.5
7	☐	5000.000	5007.524	8134561.81	1.0577	A	3.3
8	☐			2497.50	0.0003	P	17.1

$$y = 2.1121\text{E-}004 * x + 1.3698\text{E-}005$$

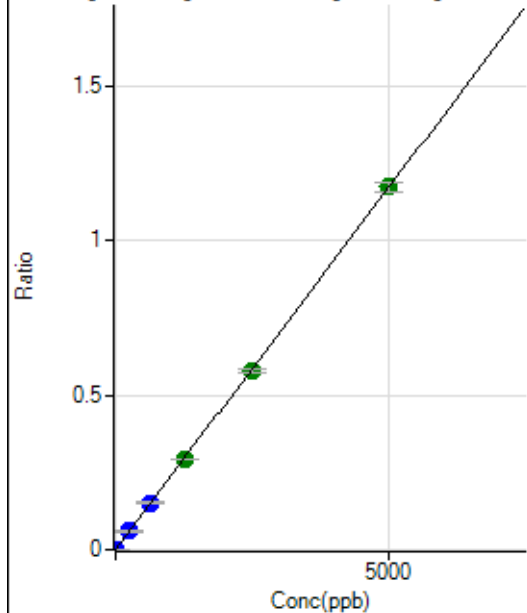
$$R = 1.0000$$

$$DL = 0.06363$$

$$BEC = 0.06485$$

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	61.11	0.0000	P	17.3
2	☐	5.000	4.656	8380.57	0.0011	P	3.1
3	☐	250.000	253.877	453547.37	0.0595	P	3.0
4	☐	625.000	645.972	1154523.78	0.1514	P	3.7
5	☐	1250.000	1248.991	2274069.11	0.2927	A	1.4
6	☐	2500.000	2470.813	4445413.55	0.5790	A	2.5
7	☐	5000.000	5012.031	9033878.76	1.1746	A	2.8
8	☐			3244.91	0.0004	P	11.3

$$y = 2.3434\text{E-}004 * x + 8.3255\text{E-}006$$

$$R = 1.0000$$

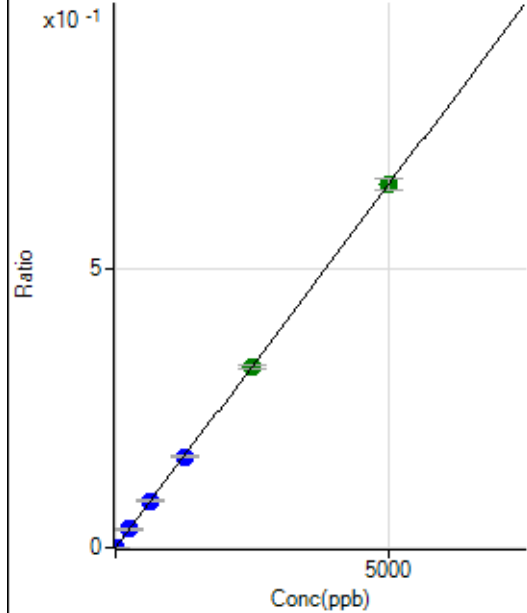
$$DL = 0.0184$$

$$BEC = 0.03553$$

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	16.66	0.0000	P	84.0
2	☐	5.000	4.599	4581.43	0.0006	P	8.8
3	☐	250.000	254.425	252517.26	0.0331	P	2.9
4	☐	625.000	645.574	641150.28	0.0841	P	2.8
5	☐	1250.000	1258.149	1272678.91	0.1638	P	1.3
6	☐	2500.000	2491.655	2490405.56	0.3244	A	3.0
7	☐	5000.000	4999.343	5006130.36	0.6509	A	3.1
8	☐			1558.46	0.0002	P	9.1

$$y = 1.3020\text{E-}004 * x + 2.2478\text{E-}006$$

$$R = 1.0000$$

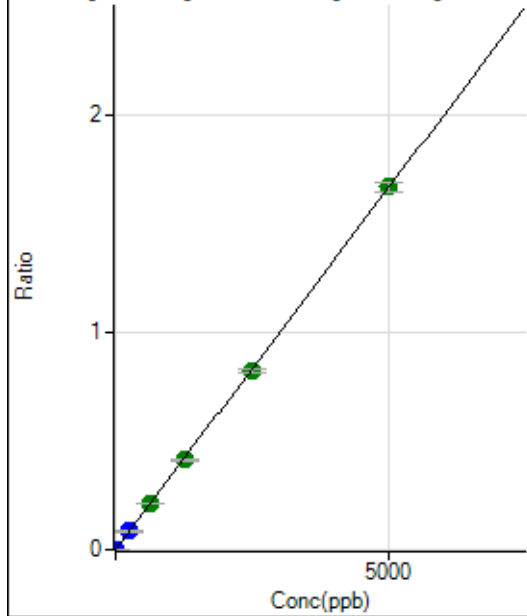
$$DL = 0.04349$$

$$BEC = 0.01726$$

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	30.56	0.0000	P	53.8
2	☐	5.000	4.757	12094.43	0.0016	P	1.4
3	☐	250.000	255.365	647469.44	0.0849	P	3.3
4	☐	625.000	636.762	1616016.57	0.2118	A	2.3
5	☐	1250.000	1235.659	3193323.79	0.4110	A	1.7
6	☐	2500.000	2478.017	6329326.19	0.8243	A	1.7
7	☐	5000.000	5012.839	12825758.79	1.6675	A	2.4
8	☐			3939.56	0.0005	P	22.8

$$y = 3.3264\text{E-}004 * x + 4.1281\text{E-}006$$

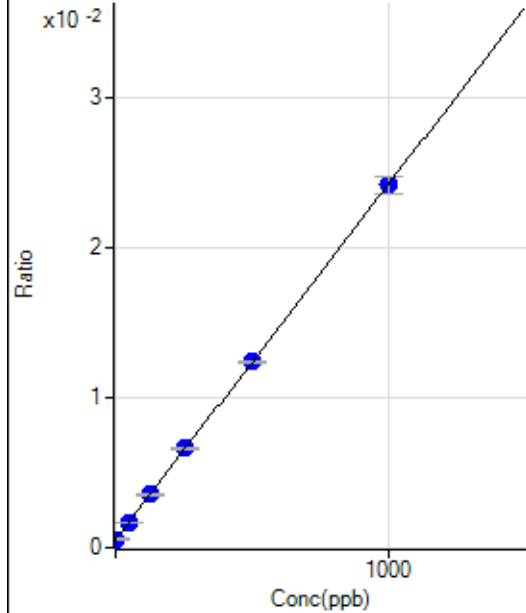
$$R = 1.0000$$

$$DL = 0.02004$$

$$BEC = 0.01241$$

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	1714.05	0.0005	P	2.6
2	☐	1.000	0.853	1864.07	0.0006	P	8.8
3	☐	50.000	48.662	5554.04	0.0017	P	2.9
4	☐	125.000	126.282	11582.92	0.0035	P	4.8
5	☐	250.000	256.679	22218.45	0.0066	P	1.9
6	☐	500.000	499.742	41373.94	0.0124	P	1.0
7	☐	1000.000	998.366	81700.00	0.0242	P	4.5
8	☐			1911.29	0.0005	P	5.6

$$y = 2.3729\text{E-}005 * x + 5.4204\text{E-}004$$

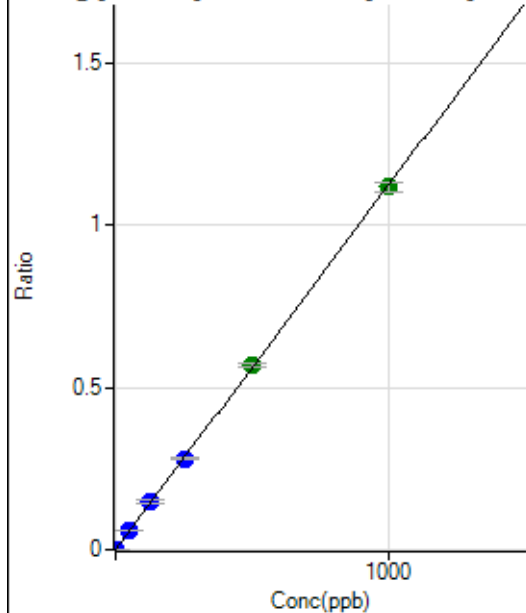
$$R = 1.0000$$

$$DL = 1.797$$

$$BEC = 22.84$$

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	61.11	0.0000	P	40.6
2	☐	1.000	0.943	3570.00	0.0011	P	3.6
3	☐	50.000	51.909	190687.89	0.0583	P	2.0
4	☐	125.000	131.311	482224.58	0.1473	P	4.9
5	☐	250.000	249.942	939308.45	0.2804	P	0.7
6	☐	500.000	507.605	1899755.84	0.5694	A	2.2
7	☐	1000.000	995.328	3765672.09	1.1166	A	2.5
8	☐			2186.35	0.0006	P	16.3

$$y = 0.0011 * x + 1.9152\text{E-}005$$

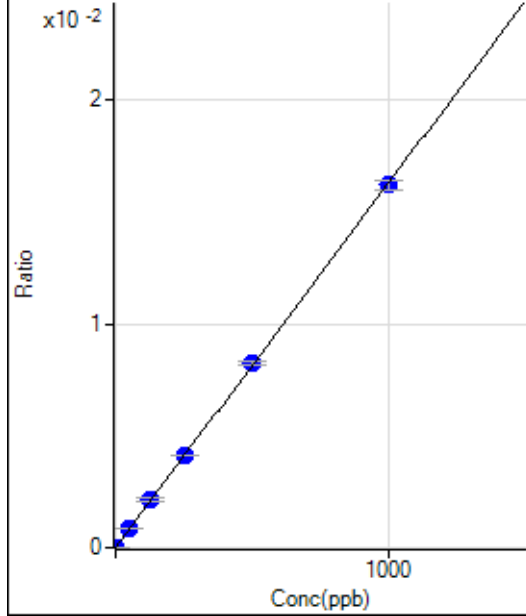
$$R = 0.9999$$

$$DL = 0.02078$$

$$BEC = 0.01707$$

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	5.56	0.0000	P	117.5
2	☐	1.000	0.813	50.00	0.0000	P	50.3
3	☐	50.000	53.378	2853.11	0.0009	P	3.4
4	☐	125.000	131.829	7032.43	0.0021	P	6.2
5	☐	250.000	252.540	13783.37	0.0041	P	1.2
6	☐	500.000	506.543	27528.87	0.0083	P	1.2
7	☐	1000.000	995.071	54656.34	0.0162	P	2.7
8	☐			69.44	0.0000	P	17.3

$$y = 1.6285\text{E-}005 * x + 1.8074\text{E-}006$$

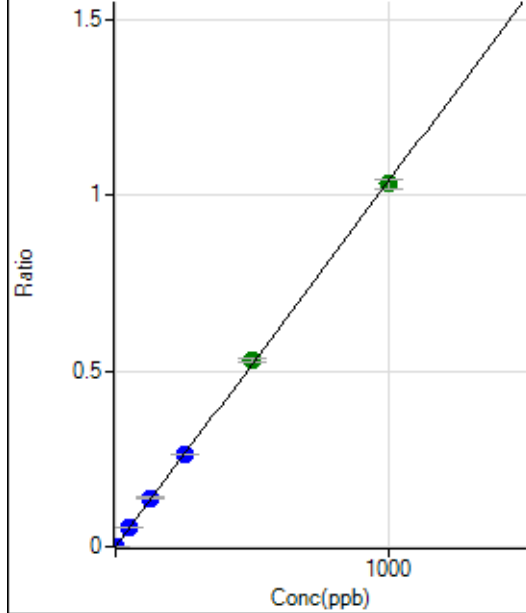
$$R = 0.9999$$

$$DL = 0.3911$$

$$BEC = 0.111$$

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	52.7
2	☐	1.000	0.962	3358.83	0.0010	P	9.2
3	☐	50.000	52.966	180481.29	0.0551	P	1.3
4	☐	125.000	132.271	450735.92	0.1376	P	3.1
5	☐	250.000	252.394	879772.69	0.2626	P	1.3
6	☐	500.000	510.630	1772645.94	0.5313	A	1.6
7	☐	1000.000	993.029	3484443.18	1.0333	A	3.0
8	☐			2030.76	0.0006	P	2.1

$$y = 0.0010 * x + 1.2290\text{E-}005$$

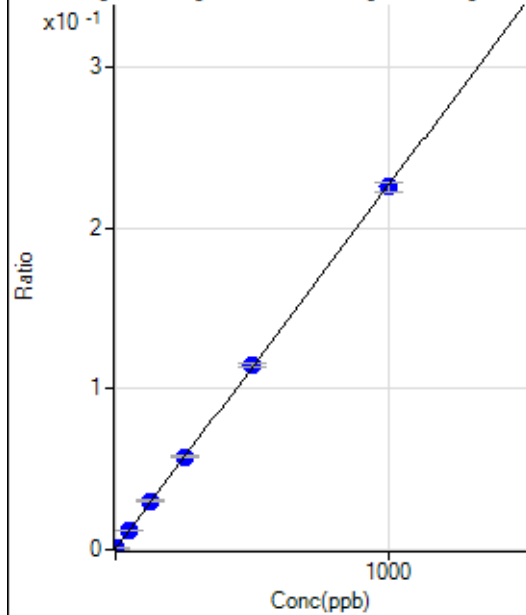
$$R = 0.9999$$

$$DL = 0.01866$$

$$BEC = 0.01181$$

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	1208.44	0.0004	P	2.3
2	☐	1.000	1.043	2049.05	0.0006	P	5.0
3	☐	50.000	51.083	39109.00	0.0119	P	1.7
4	☐	125.000	131.426	98646.48	0.0301	P	4.5
5	☐	250.000	254.612	194358.65	0.0580	P	1.6
6	☐	500.000	504.339	382176.54	0.1146	P	1.7
7	☐	1000.000	995.820	761526.08	0.2258	P	2.9
8	☐			1675.42	0.0005	P	6.1

$$y = 2.2638\text{E-}004 * x + 3.8211\text{E-}004$$

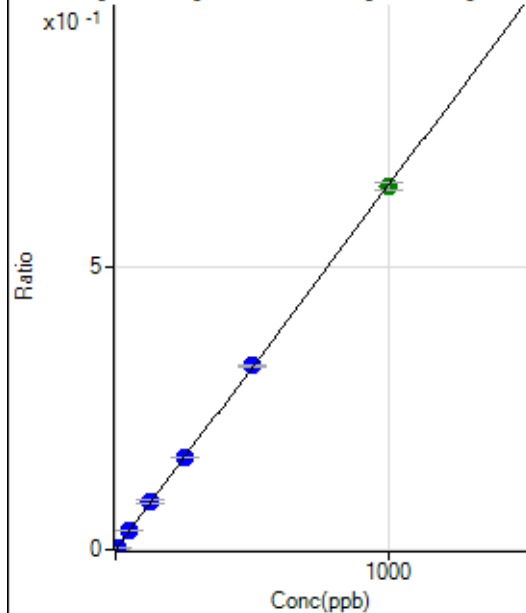
$$R = 1.0000$$

$$DL = 0.1177$$

$$BEC = 1.688$$

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	577.81	0.0002	P	18.6
2	☐	5.000	4.812	10912.97	0.0033	P	4.4
3	☐	50.000	51.583	109788.29	0.0335	P	0.6
4	☐	125.000	131.515	278923.14	0.0852	P	4.6
5	☐	250.000	254.132	550982.73	0.1645	P	0.4
6	☐	500.000	504.872	1089591.62	0.3266	P	1.6
7	☐	1000.000	995.639	2171480.67	0.6439	A	2.2
8	☐			825.05	0.0002	P	9.5

$$y = 6.4650\text{E-}004 * x + 1.8252\text{E-}004$$

$$R = 1.0000$$

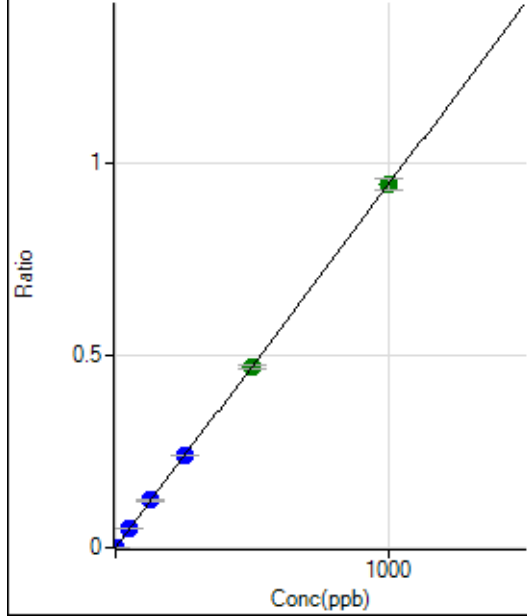
$$DL = 0.1571$$

$$BEC = 0.2823$$

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	83.34	0.0000	P	4.3
2	☐	2.000	1.790	5684.66	0.0017	P	3.6
3	☐	50.000	51.924	160492.82	0.0490	P	1.0
4	☐	125.000	130.536	403308.42	0.1232	P	4.3
5	☐	250.000	254.320	803947.69	0.2400	P	1.0
6	☐	500.000	497.616	1566626.09	0.4696	A	1.7
7	☐	1000.000	999.324	3179996.19	0.9430	A	3.3
8	☐			2314.16	0.0007	P	6.6

$$y = 9.4358\text{E-}004 * x + 2.6368\text{E-}005$$

$$R = 1.0000$$

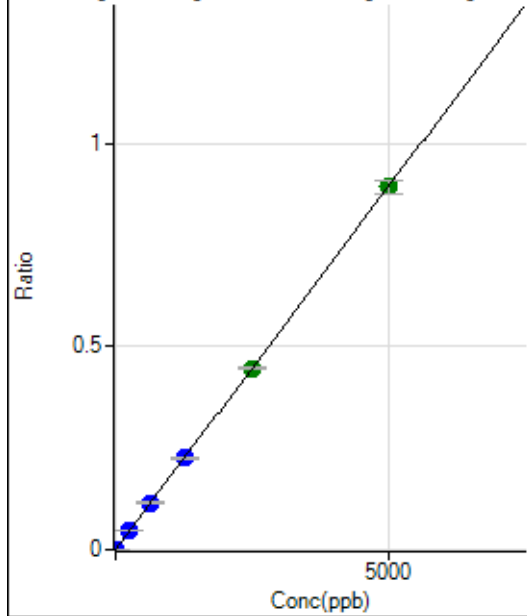
$$DL = 0.003563$$

$$BEC = 0.02794$$

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	16.67	0.0000	P	86.8
2	☐	10.000	9.188	5467.91	0.0016	P	2.2
3	☐	250.000	260.156	152481.58	0.0466	P	0.9
4	☐	625.000	645.686	378376.49	0.1156	P	4.4
5	☐	1250.000	1261.956	756715.13	0.2259	P	1.0
6	☐	2500.000	2497.826	1491746.73	0.4471	A	1.4
7	☐	5000.000	4995.006	3014904.32	0.8941	A	3.6
8	☐			5504.04	0.0016	P	9.3

$$y = 1.7900\text{E-}004 * x + 5.3151\text{E-}006$$

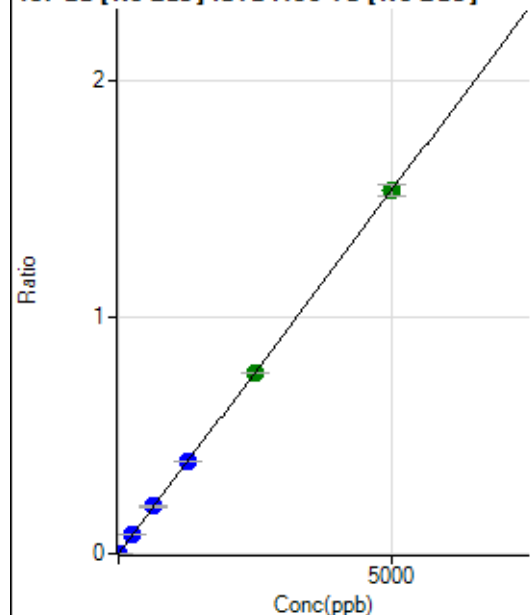
$$R = 1.0000$$

$$DL = 0.07733$$

$$BEC = 0.02969$$

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	25.00	0.0000	P	55.9
2	☐	10.000	9.148	9353.49	0.0028	P	3.5
3	☐	250.000	256.469	258341.21	0.0789	P	1.8
4	☐	625.000	657.308	662000.65	0.2022	P	4.4
5	☐	1250.000	1273.239	1312181.07	0.3917	P	0.3
6	☐	2500.000	2489.026	2555059.08	0.7657	A	0.5
7	☐	5000.000	4995.317	5182316.09	1.5368	A	3.1
8	☐			9798.22	0.0028	P	6.4

$$y = 3.0764E-004 * x + 7.7817E-006$$

$$R = 1.0000$$

$$DL = 0.0424$$

$$BEC = 0.02529$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

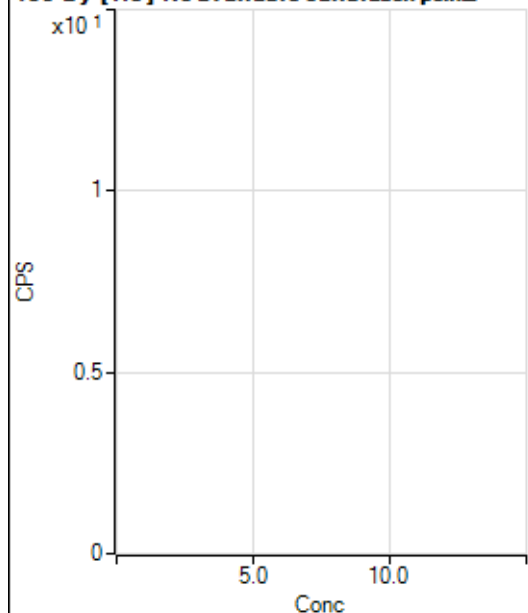
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			4.44		P	173.2
3	☐			17.78		P	57.3
4	☐			13.33		P	50.0
5	☐			31.11		P	53.9
6	☐			77.78		P	62.0
7	☐			84.45		P	9.1
8	☐			11.11		P	91.7

150 Nd [He] No available calibration points

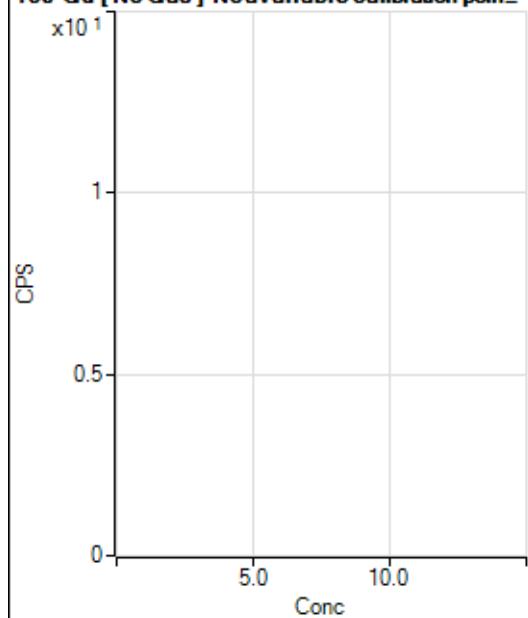
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			2.22		P	173.2
5	☐			2.22		P	86.6
6	☐			10.00		P	57.7
7	☐			12.22		P	78.7
8	☐			3.33		P	0.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.56		P	173.2
2	☐			25.00		P	57.7
3	☐			25.00		P	66.7
4	☐			19.44		P	49.5
5	☐			19.44		P	89.2
6	☐			50.00		P	72.7
7	☐			66.67		P	57.3
8	☐			183.34		P	36.1

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			5.56		P	34.7
3	☐			5.56		P	34.7
4	☐			3.33		P	173.2
5	☐			11.11		P	45.8
6	☐			20.00		P	33.4
7	☐			17.78		P	28.6
8	☐			127.78		P	4.0

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	88.2
2	☐			44.45		P	54.1
3	☐			33.33		P	25.0
4	☐			38.89		P	12.4
5	☐			38.89		P	32.7
6	☐			75.00		P	48.4
7	☐			80.56		P	21.5
8	☐			236.12		P	13.4

160 Gd [He] No available calibration points

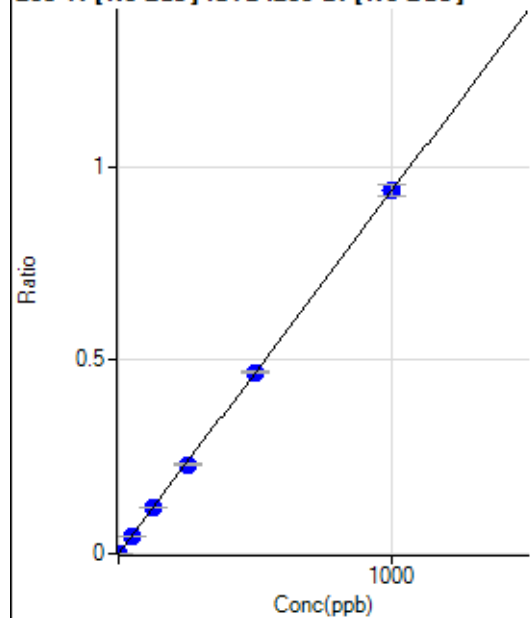
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	52.9
2	☐			7.78		P	65.5
3	☐			14.45		P	26.7
4	☐			13.33		P	50.0
5	☐			20.00		P	16.7
6	☐			23.33		P	28.6
7	☐			28.89		P	13.3
8	☐			141.11		P	12.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			25.00		P	66.7
2	☐			22.22		P	57.3
3	☐			19.45		P	24.7
4	☐			27.78		P	17.3
5	☐			19.45		P	24.7
6	☐			30.55		P	15.7
7	☐			41.67		P	40.0
8	☐			47.22		P	50.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			2.22		P	173.2
3	☐			8.89		P	21.6
4	☐			7.78		P	107.8
5	☐			8.89		P	114.5
6	☐			21.11		P	18.2
7	☐			6.66		P	86.6
8	☐			17.78		P	28.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	52.78	0.0000	P	9.2
2	☐	1.000	0.893	1319.56	0.0009	P	6.0
3	☐	50.000	49.414	69678.55	0.0463	P	0.3
4	☐	125.000	127.549	179272.81	0.1194	P	3.7
5	☐	250.000	246.295	357678.04	0.2306	P	0.4
6	☐	500.000	499.261	719793.25	0.4673	P	1.2
7	☐	1000.000	1001.006	1451939.45	0.9369	P	3.2
8	☐			488.91	0.0003	P	24.0

$$y = 9.3595E-004 * x + 3.6097E-005$$

$$R = 1.0000$$

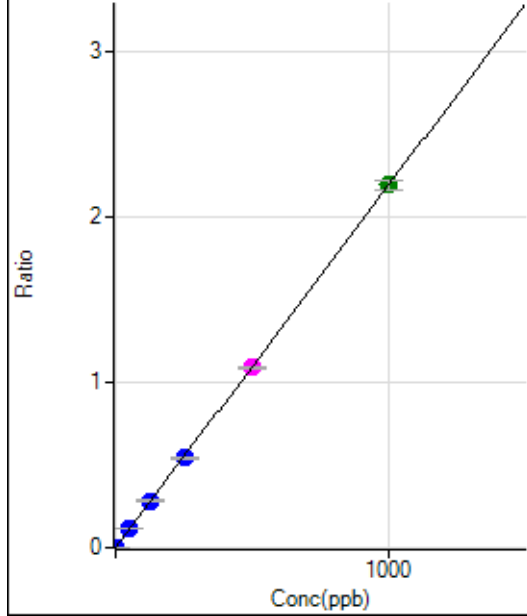
$$DL = 0.01062$$

$$BEC = 0.03857$$

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	119.45	0.0001	P	10.0
2	☐	1.000	0.917	3161.59	0.0021	P	4.2
3	☐	50.000	50.658	167003.90	0.1109	P	0.9
4	☐	125.000	129.445	425326.75	0.2833	P	4.3
5	☐	250.000	247.785	841317.49	0.5423	P	1.1
6	☐	500.000	497.373	1676534.19	1.0885	M	0.8
7	☐	1000.000	1001.279	3395753.20	2.1912	A	2.8
8	☐			1227.88	0.0008	P	25.9

$$y = 0.0022 * x + 8.1774E-005$$

$$R = 1.0000$$

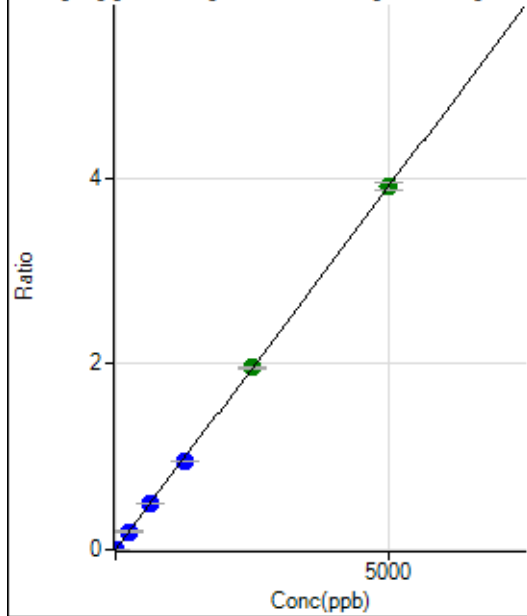
$$DL = 0.0112$$

$$BEC = 0.03737$$

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	448.16	0.0003	P	6.7
2	☐	1.000	0.855	1474.18	0.0010	P	8.7
3	☐	250.000	250.396	294830.17	0.1959	P	1.0
4	☐	625.000	635.044	745162.55	0.4962	P	2.5
5	☐	1250.000	1221.122	1479924.46	0.9539	P	0.4
6	☐	2500.000	2515.327	3026016.04	1.9647	A	1.0
7	☐	5000.000	4998.281	6050537.69	3.9037	A	2.1
8	☐			2528.07	0.0016	P	4.8

$$y = 7.8095E-004 * x + 3.0576E-004$$

$$R = 1.0000$$

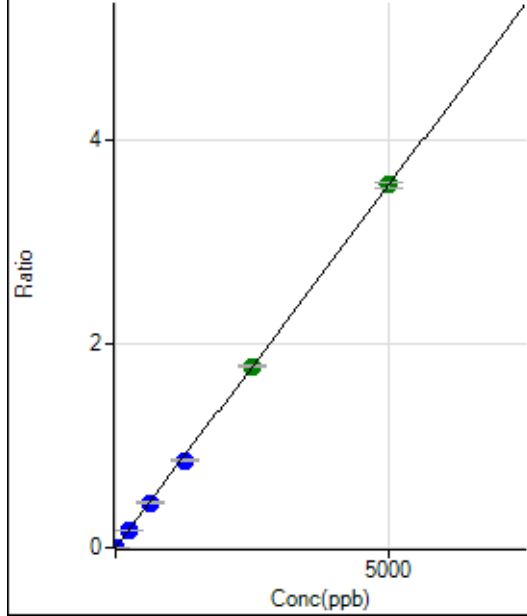
$$DL = 0.07811$$

$$BEC = 0.3915$$

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	318.53	0.0002	P	22.2
2	☐	1.000	0.868	1259.35	0.0008	P	8.3
3	☐	250.000	247.408	264509.38	0.1757	P	0.5
4	☐	625.000	621.853	662599.69	0.4413	P	2.9
5	☐	1250.000	1204.708	1325976.04	0.8547	P	0.9
6	☐	2500.000	2507.614	2739514.90	1.7788	A	1.4
7	☐	5000.000	5008.039	5506265.22	3.5524	A	1.7
8	☐			2222.45	0.0014	P	8.1

$$y = 7.0929E-004 * x + 2.1672E-004$$

$$R = 1.0000$$

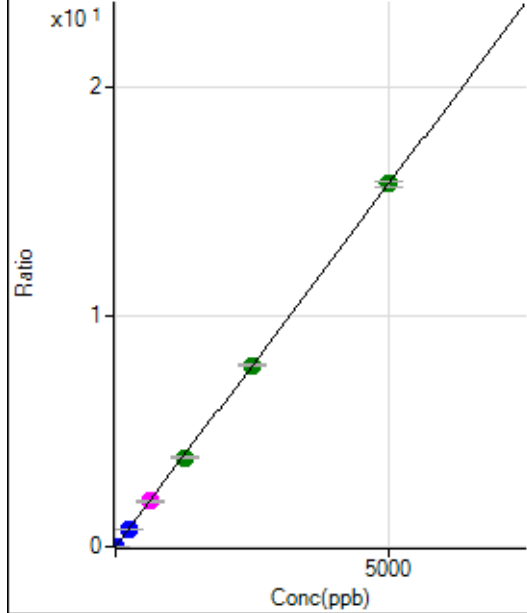
$$DL = 0.2031$$

$$BEC = 0.3055$$

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	1600.07	0.0011	P	8.7
2	☐	1.000	0.843	5672.81	0.0037	P	4.5
3	☐	250.000	249.717	1185179.09	0.7873	P	0.3
4	☐	625.000	629.802	2979042.28	1.9839	M	2.5
5	☐	1250.000	1228.949	6004081.39	3.8702	A	0.8
6	☐	2500.000	2498.491	12116452.73	7.8671	A	0.8
7	☐	5000.000	5005.431	24427004.36	15.7596	A	1.9
8	☐			9816.43	0.0063	P	11.9

$$y = 0.0031 * x + 0.0011$$

$$R = 1.0000$$

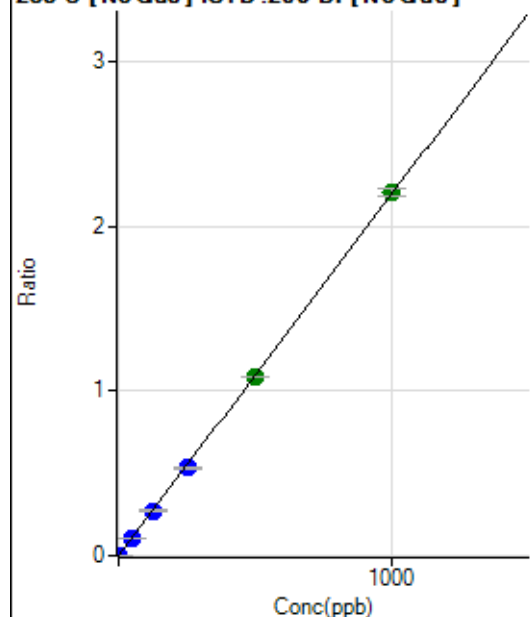
$$DL = 0.09063$$

$$BEC = 0.3475$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	39.6
2	☐	1.000	0.938	3133.81	0.0021	P	2.7
3	☐	50.000	48.650	160949.98	0.1069	P	0.2
4	☐	125.000	124.318	410013.02	0.2732	P	5.2
5	☐	250.000	242.353	826220.65	0.5326	P	1.3
6	☐	500.000	496.149	1679234.20	1.0903	A	0.5
7	☐	1000.000	1003.990	3419795.17	2.2062	A	2.0
8	☐			558.36	0.0004	P	24.6

$$y = 0.0022 * x + 7.5290E-006$$

$$R = 1.0000$$

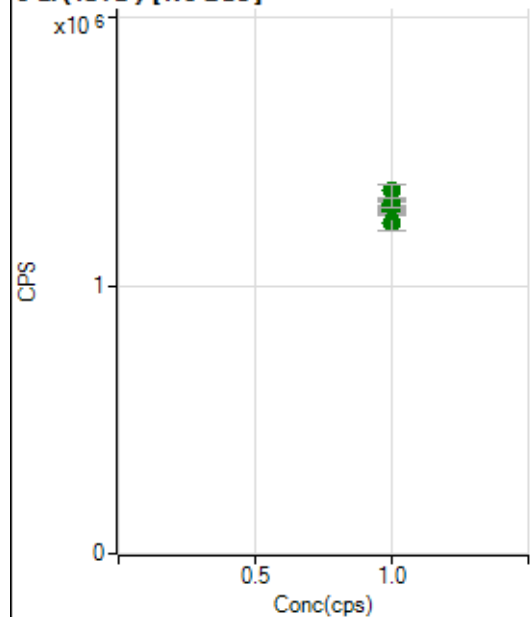
$$DL = 0.004072$$

$$BEC = 0.003426$$

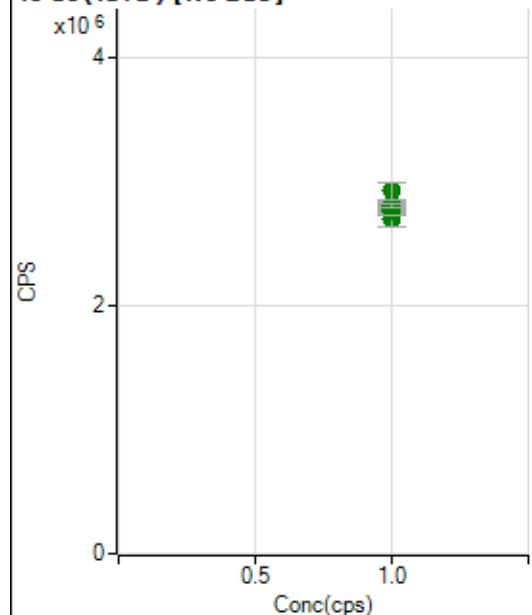
Weight: <None>

Min Conc: 0

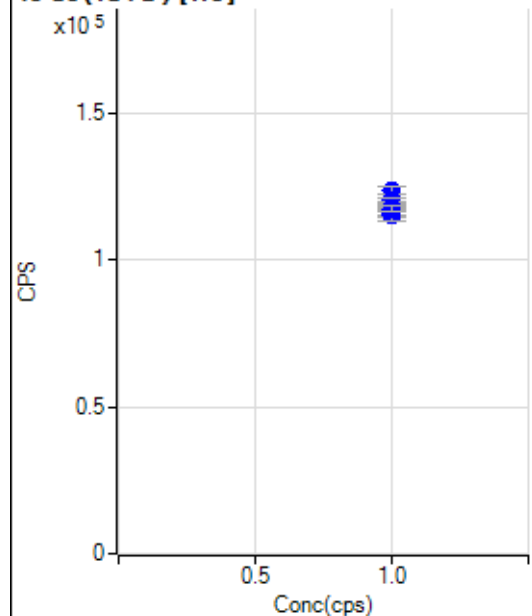
6 Li (ISTD) [No Gas]



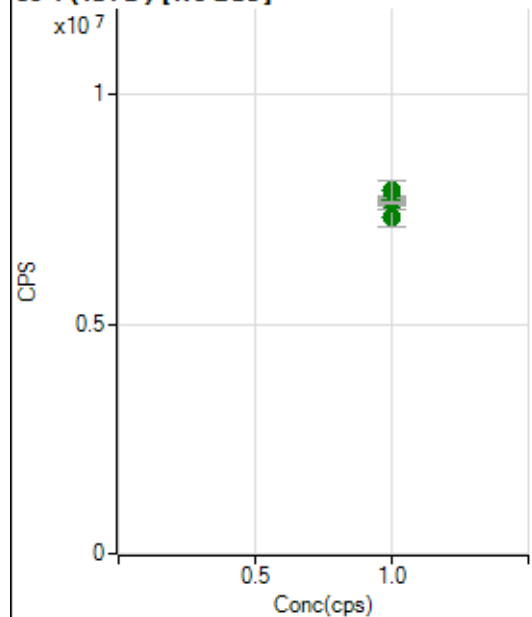
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1234089.33		A	4.8
2	☐	1.000		1278032.68		A	0.6
3	☐	1.000		1276619.16		A	2.5
4	☐	1.000		1283832.49		A	2.3
5	☐	1.000		1314314.17		A	0.6
6	☐	1.000		1300318.02		A	1.8
7	☐	1.000		1308317.72		A	2.5
8	☐	1.000		1354390.25		A	4.0

45 Sc (ISTD) [No Gas]

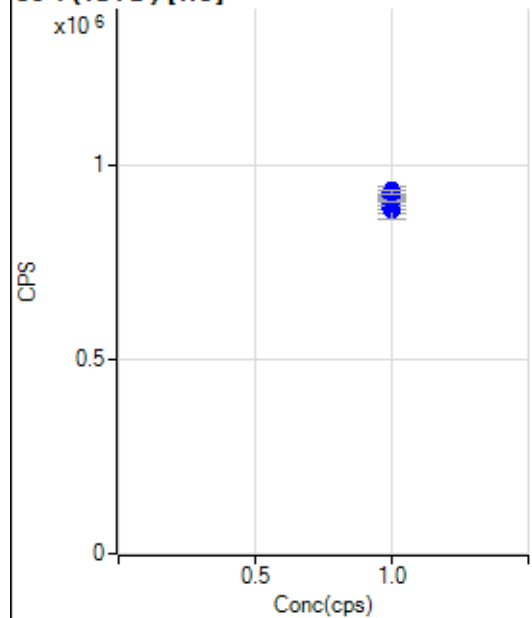
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2692827.84		A	4.6
2	☐	1.000		2769201.59		A	0.1
3	☐	1.000		2757768.41		A	0.9
4	☐	1.000		2775994.98		A	2.9
5	☐	1.000		2807133.24		A	0.1
6	☐	1.000		2826132.28		A	0.9
7	☐	1.000		2806489.42		A	1.2
8	☐	1.000		2925803.22		A	4.8

45 Sc (ISTD) [He]

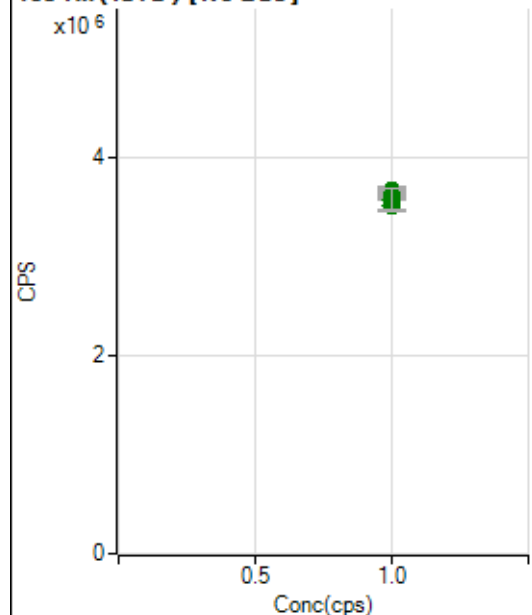
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		116438.79		P	2.3
2	☐	1.000		115624.17		P	1.5
3	☐	1.000		123617.53		P	2.0
4	☐	1.000		120446.96		P	0.9
5	☐	1.000		116179.00		P	5.0
6	☐	1.000		118208.84		P	1.2
7	☐	1.000		117869.71		P	0.5
8	☐	1.000		117457.74		P	1.5

89 Y (ISTD) [No Gas]

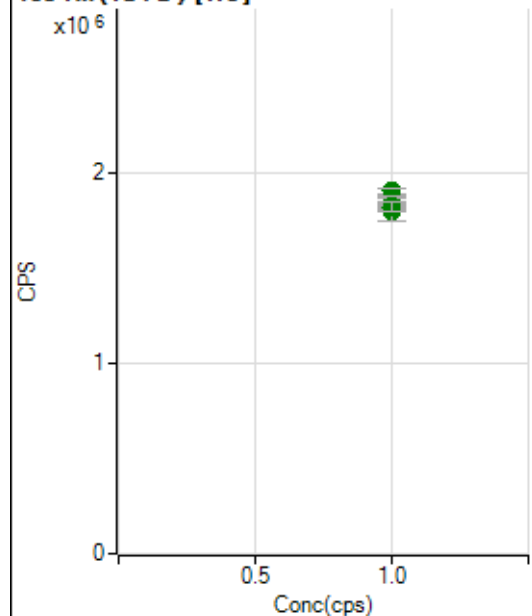
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7312885.24		A	5.1
2	☐	1.000		7623179.95		A	0.2
3	☐	1.000		7627006.20		A	3.1
4	☐	1.000		7633093.08		A	3.8
5	☐	1.000		7769544.05		A	1.0
6	☐	1.000		7680664.81		A	2.6
7	☐	1.000		7693939.82		A	1.8
8	☐	1.000		7905509.75		A	6.0

89 Y (ISTD) [He]

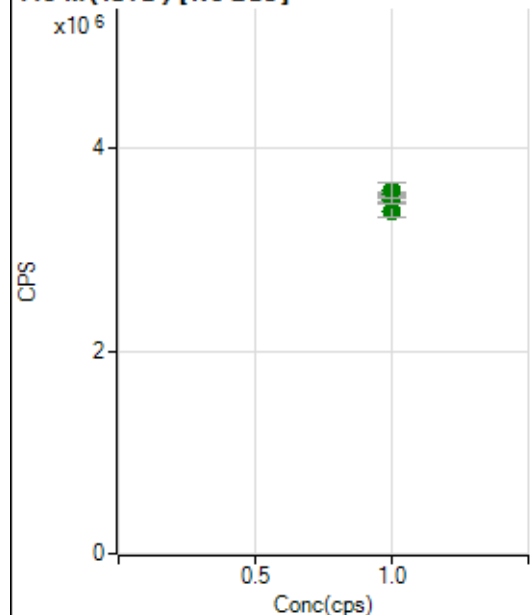
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		892441.33		P	1.4
2	☐	1.000		886256.49		P	2.1
3	☐	1.000		933960.95		P	2.5
4	☐	1.000		920037.11		P	0.8
5	☐	1.000		887071.86		P	5.3
6	☐	1.000		900626.60		P	0.9
7	☐	1.000		909045.58		P	0.8
8	☐	1.000		930661.15		P	1.3

103 Rh (ISTD) [No Gas]

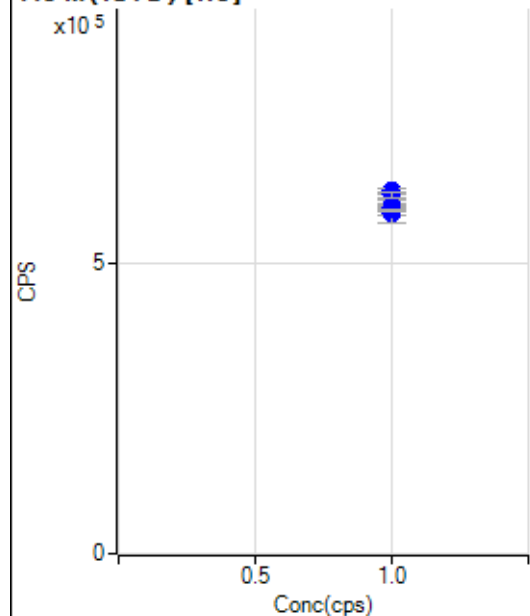
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3525179.46		A	4.1
2	☐	1.000		3669389.75		A	1.8
3	☐	1.000		3641875.91		A	1.7
4	☐	1.000		3644190.88		A	3.5
5	☐	1.000		3658600.17		A	0.5
6	☐	1.000		3607357.76		A	1.5
7	☐	1.000		3614885.80		A	0.4
8	☐	1.000		3585238.60		A	6.3

103 Rh (ISTD) [He]

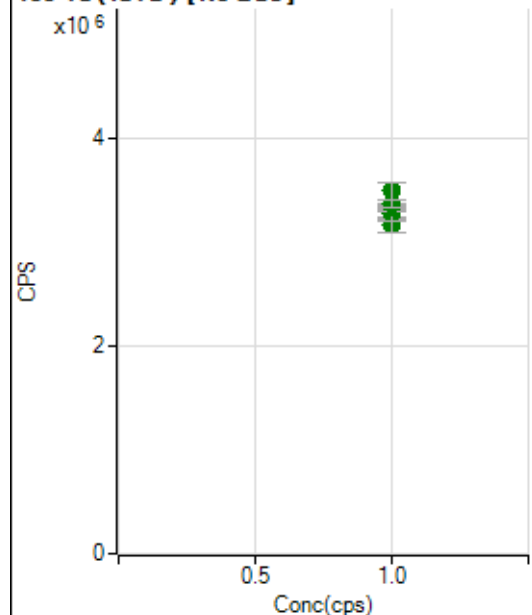
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1817408.69		A	2.4
2	☐	1.000		1813041.19		A	1.9
3	☐	1.000		1908223.89		A	1.8
4	☐	1.000		1874825.27		A	0.7
5	☐	1.000		1802387.02		A	5.4
6	☐	1.000		1832164.64		A	1.8
7	☐	1.000		1820177.96		A	1.5
8	☐	1.000		1825558.65		A	2.5

115 In (ISTD) [No Gas]

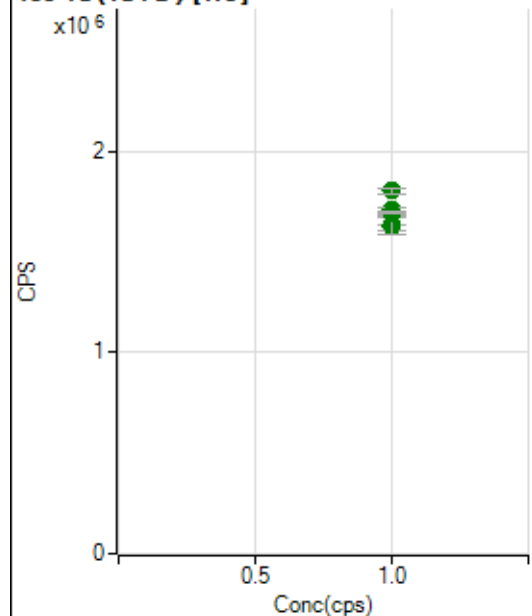
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3385491.94		A	3.9
2	☐	1.000		3538496.68		A	1.6
3	☐	1.000		3528759.70		A	1.0
4	☐	1.000		3515932.45		A	2.7
5	☐	1.000		3549696.84		A	0.3
6	☐	1.000		3552336.99		A	1.3
7	☐	1.000		3498378.63		A	2.2
8	☐	1.000		3579659.26		A	4.2

115 In (ISTD) [He]

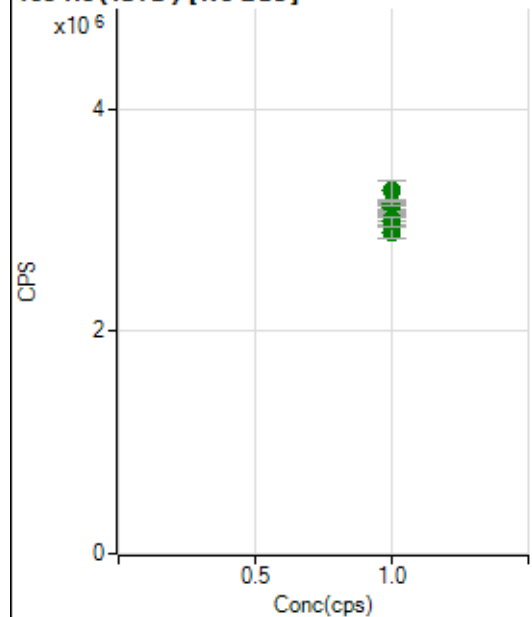
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		590906.24		P	1.4
2	☐	1.000		586810.20		P	1.9
3	☐	1.000		623158.56		P	1.7
4	☐	1.000		610438.22		P	0.6
5	☐	1.000		584535.17		P	5.1
6	☐	1.000		594351.56		P	1.2
7	☐	1.000		590300.03		P	0.4
8	☐	1.000		616831.26		P	1.4

159 Tb (ISTD) [No Gas]

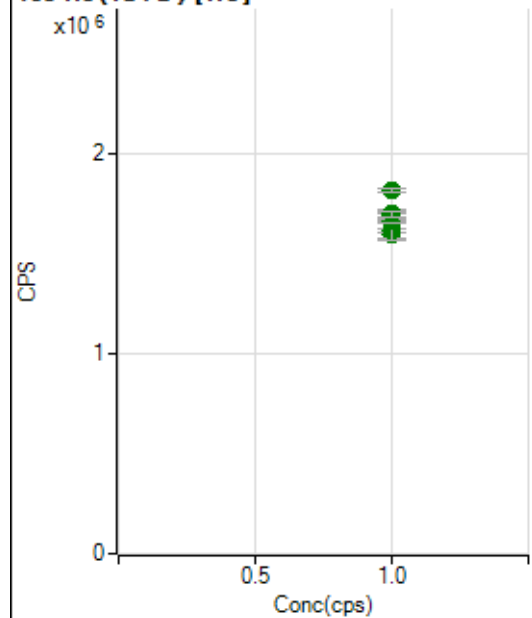
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3164393.56		A	4.2
2	☐	1.000		3313821.82		A	0.7
3	☐	1.000		3274281.31		A	1.5
4	☐	1.000		3277283.53		A	3.8
5	☐	1.000		3349888.22		A	0.3
6	☐	1.000		3336946.89		A	2.1
7	☐	1.000		3373632.94		A	2.1
8	☐	1.000		3497394.60		A	5.1

159 Tb (ISTD) [He]

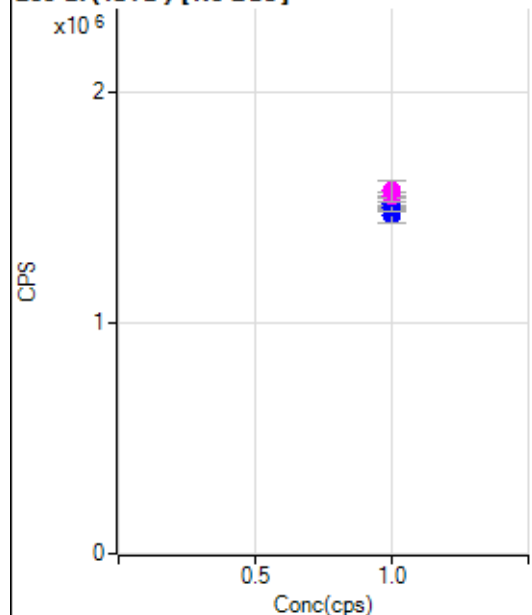
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1624962.44		A	1.7
2	☐	1.000		1625308.61		A	1.7
3	☐	1.000		1708281.36		A	1.7
4	☐	1.000		1700135.62		A	2.2
5	☐	1.000		1632624.99		A	5.4
6	☐	1.000		1691297.70		A	1.6
7	☐	1.000		1697429.84		A	0.7
8	☐	1.000		1804684.97		A	1.8

165 Ho (ISTD) [No Gas]

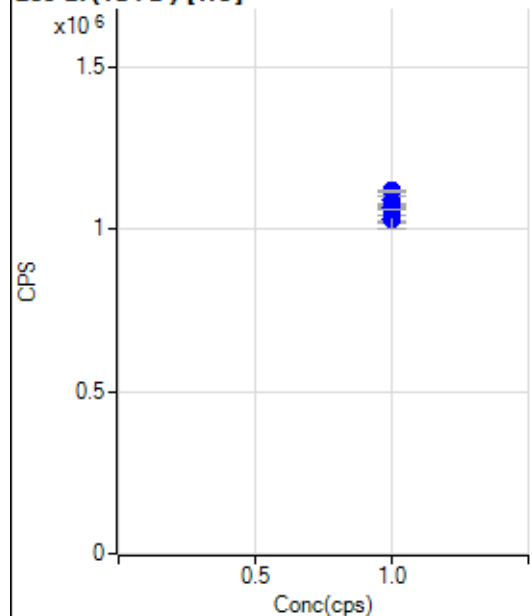
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2895948.18		A	4.4
2	☐	1.000		3041778.89		A	0.9
3	☐	1.000		3025967.84		A	2.0
4	☐	1.000		2990344.88		A	2.7
5	☐	1.000		3119487.44		A	1.6
6	☐	1.000		3108141.24		A	1.4
7	☐	1.000		3156706.24		A	1.4
8	☐	1.000		3266783.80		A	6.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1619921.35		A	1.1
2	☐	1.000		1597129.07		A	1.8
3	☐	1.000		1704082.84		A	1.9
4	☐	1.000		1699146.14		A	1.2
5	☐	1.000		1620472.21		A	6.0
6	☐	1.000		1665251.05		A	1.5
7	☐	1.000		1700885.29		A	1.3
8	☐	1.000		1817573.72		A	1.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1463301.52		P	4.4
2	☐	1.000		1513934.25		P	1.3
3	☐	1.000		1505427.06		P	0.6
4	☐	1.000		1502311.47		P	2.8
5	☐	1.000		1551366.33		M	0.3
6	☐	1.000		1540281.21		P	1.6
7	☐	1.000		1550193.69		M	1.5
8	☐	1.000		1571922.79		M	6.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1028626.85		P	2.1
2	☐	1.000		1031893.92		P	1.7
3	☐	1.000		1089835.90		P	2.0
4	☐	1.000		1069641.27		P	0.6
5	☐	1.000		1028549.09		P	6.0
6	☐	1.000		1066018.24		P	1.1
7	☐	1.000		1060936.33		P	0.2
8	☐	1.000		1116980.62		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8082120D.b
Acq. Date-Time 2020-08-21 15:52:07
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		2781	27806.20			1.721	5.000
24		43377	433767.23			2.256	5.000
25		5674	56744.50			2.042	5.000
26		6664	66644.29			1.831	5.000
59		18181	181812.55			2.292	5.000
113		2368	23678.56			2.258	5.000
115		8880	88801.79			1.024	5.000
206		1799	17988.33			2.007	5.000
207		1474	14742.56			2.673	5.000
208		3680	36801.67			2.502	5.000
220		1	13.00			9.806	

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

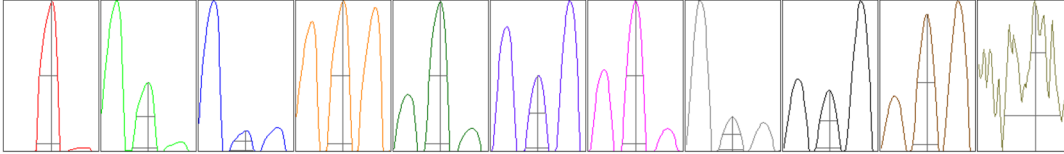
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2830	2744	2720	2821	2788
24	44522	42370	42349	43659	43984
25	5810	5544	5563	5712	5743
26	6758	6572	6496	6744	6752
59	18410	17895	17602	18392	18607
113	2389	2301	2323	2402	2425
115	8815	8820	8869	9037	8859
206	1800	1762	1764	1826	1842
207	1508	1435	1427	1498	1503
208	3720	3566	3598	3745	3772

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5245.97	9.05	8.90 - 9.10	
24	79369.05	24.00	23.90 - 24.10	
25	10539.36	25.00	24.90 - 25.10	
26	12281.76	26.00	25.90 - 26.10	
59	34185.74	59.00	58.90 - 59.10	
113	4768.78	113.00	112.90 - 113.10	
115	17506.13	115.05	114.90 - 115.10	
206	3375.30	206.00	205.90 - 206.10	
207	2795.18	207.00	206.90 - 207.10	
208	6953.56	208.00	207.90 - 208.10	
220	1.80	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.735	0.900	
24	0.58	0.777	0.900	
25	0.57	0.751	0.900	
26	0.58	0.779	0.900	
59	0.56	0.769	0.900	
113	0.52	0.725	0.900	
115	0.52	0.754	0.900	
206	0.56	0.788	0.900	
207	0.55	0.791	0.900	
208	0.55	0.814	0.900	
220	0.47	1.761		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.50 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.1 mm
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EM

Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4366	43663.17			0.935	
89		2650	26499.76			1.891	
205		5799	57986.28			0.721	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4405	4346	4354	4411	4315
89	2729	2646	2654	2630	2591
205	5844	5776	5822	5812	5738

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.50 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	5.4 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	190 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.1 mm		
EM					
Discriminator	4.0 mV	Analog HV	2184 V	Pulse HV	1276 V