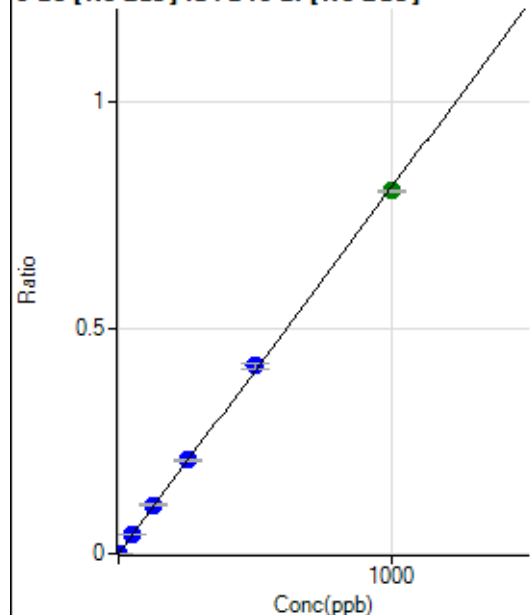


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021524MS.b\
Analysis File: P8021524MS.batch.bin
DA Date-Time: 2024-02-15 18:15:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-15 13:06:08
2	005CALS.d	S02	2024-02-15 13:09:33
3	006CALS.d	S03	2024-02-15 13:13:00
4	007CALS.d	S04	2024-02-15 13:16:15
5	008CALS.d	S05	2024-02-15 13:19:24
6	009CALS.d	S06	2024-02-15 13:22:26
7	010CALS.d	S07	2024-02-15 13:25:30
8	011CALS.d	S08	2024-02-15 13:28:32

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	57.49	0.0000	P	10.9
2	☐	1.000	1.055	1397.40	0.0009	P	12.5
3	☐	50.000	52.376	67451.31	0.0425	P	1.2
4	☐	125.000	132.895	162600.11	0.1078	P	4.4
5	☐	250.000	255.282	320109.34	0.2071	P	1.9
6	☐	500.000	514.072	614323.32	0.4170	P	3.0
7	☐	1000.000	990.538	1180240.51	0.8034	A	0.7
8	☐			302.47	0.0002	P	13.7

$$y = 8.1107\text{E-}004 * x + 3.5782\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.01437$$

$$BEC = 0.04412$$

Weight: <None>

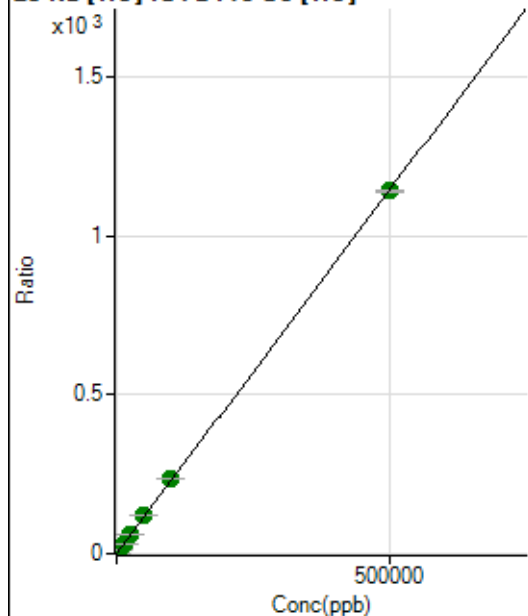
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1571043.76		A	1.9
2	☐			1595364.99		A	1.6
3	☐			1802547.08		A	0.5
4	☐			1843879.95		A	0.9
5	☐			1846043.93		A	2.8
6	☐			2074557.35		A	2.5
7	☐			2403874.22		A	3.6
8	☐			2091392.78		A	3.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21333.35		P	0.4
2	☐			21377.88		P	1.7
3	☐			23947.36		P	0.7
4	☐			25243.98		P	0.1
5	☐			25437.66		P	1.0
6	☐			29293.71		P	0.8
7	☐			34216.49		P	0.9
8	☐			33534.88		P	2.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12269.69	0.1268	P	2.3
2	☐	500.000	482.205	118280.27	1.2311	P	1.0
3	☐	5000.000	5581.440	1145547.38	12.9089	A	1.0
4	☐	12500.000	13189.930	2792570.17	30.3333	A	1.7
5	☐	25000.000	26458.948	5435239.64	60.7209	A	0.6
6	☐	50000.000	52243.785	10485534.29	119.7713	A	0.6
7	☐	100000.00	103258.39	20220583.73	236.6009	A	1.5
8	☐	500000.00	499027.95	95813269.68	1,142.960	A	0.8

$$y = 0.0023 * x + 0.1268$$

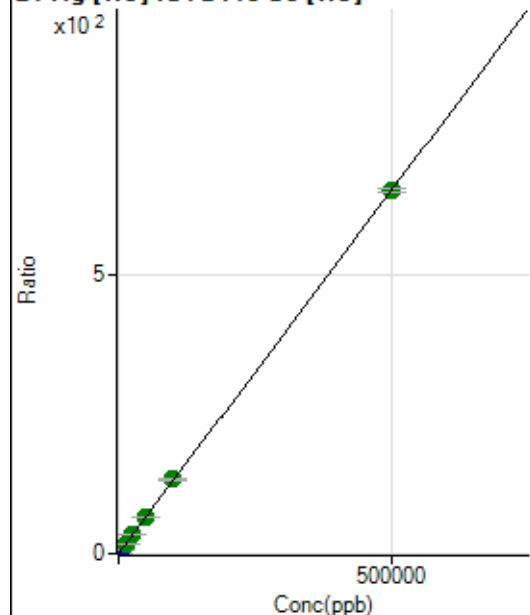
$$R = 1.0000$$

$$DL = 3.744$$

$$BEC = 55.35$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	162.23	0.0017	P	7.4
2	☐	500.000	486.442	61193.43	0.6369	P	1.1
3	☐	5000.000	5426.713	628813.85	7.0883	P	1.9
4	☐	12500.000	12995.625	1562572.29	16.9725	A	1.4
5	☐	25000.000	26123.213	3053780.86	34.1156	A	0.7
6	☐	50000.000	51016.282	5832332.97	66.6230	A	1.2
7	☐	100000.00	102078.85	11392581.08	133.3048	A	1.3
8	☐	500000.00	499409.79	54665423.08	652.1731	A	1.1

$$y = 0.0013 * x + 0.0017$$

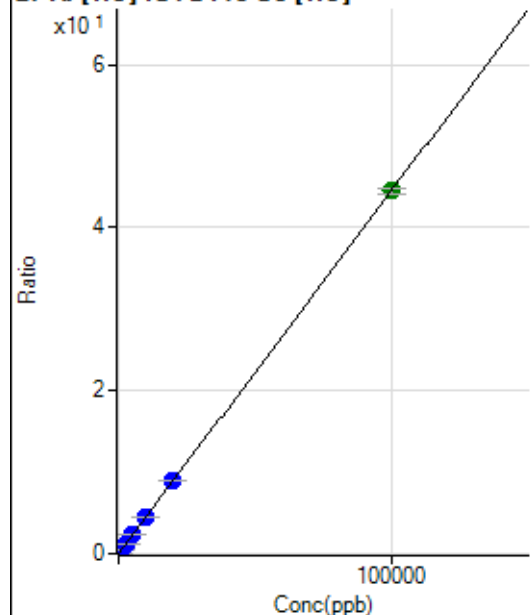
$$R = 1.0000$$

$$DL = 0.2855$$

$$BEC = 1.283$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0013	P	10.0
2	☐	20.000	18.805	931.15	0.0097	P	6.2
3	☐	1000.000	1072.436	42462.91	0.4788	P	3.7
4	☐	2500.000	2553.692	104801.00	1.1383	P	1.5
5	☐	5000.000	5123.049	204287.54	2.2822	P	0.3
6	☐	10000.000	10189.898	397258.00	4.5380	P	0.7
7	☐	20000.000	20018.559	761811.81	8.9139	P	0.9
8	☐	100000.00	99969.080	3730706.30	44.5091	A	1.4

$$y = 4.4522E-004 * x + 0.0013$$

$$R = 1.0000$$

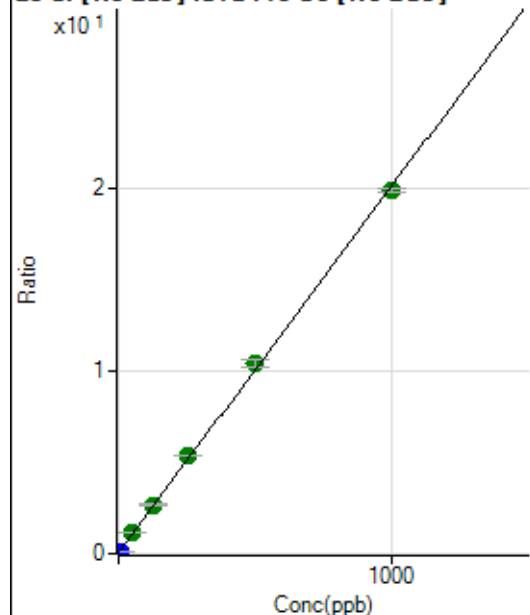
$$DL = 0.8923$$

$$BEC = 2.966$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	159827.63	0.0565	P	0.6
2	☐	10.000	0.413	176633.17	0.0648	P	5.1
3	☐	50.000	53.446	3132992.49	1.1300	A	2.1
4	☐	125.000	131.042	7270363.30	2.6885	A	2.6
5	☐	250.000	265.033	14307626.45	5.3797	A	1.7
6	☐	500.000	515.682	27100120.71	10.4141	A	4.6
7	☐	1000.000	987.569	51851799.78	19.8921	A	1.1
8	☐			655324.73	0.2824	P	10.1

$$y = 0.0201 * x + 0.0565$$

$$R = 0.9996$$

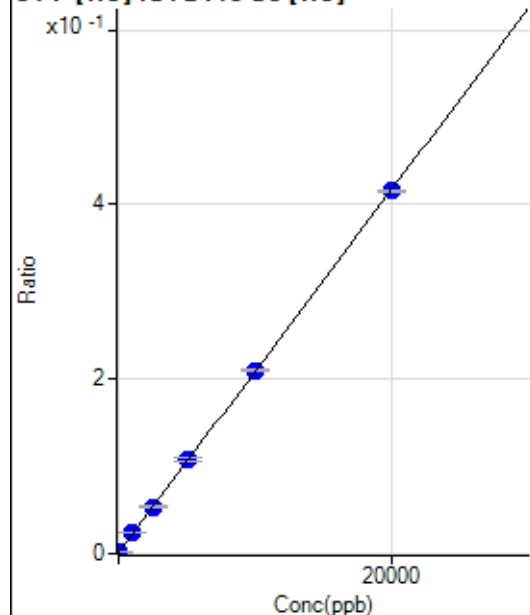
$$DL = 0.04904$$

$$BEC = 2.812$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-14.413	101.11	0.0010	P	11.6
2	☐	0.000	14.413	157.78	0.0016	P	2.8
3	☐	1000.000	1088.930	2125.73	0.0240	P	2.4
4	☐	2500.000	2529.645	4962.01	0.0539	P	0.9
5	☐	5000.000	5117.940	9637.72	0.1077	P	2.6
6	☐	10000.000	10055.799	18403.98	0.2102	P	0.8
7	☐	20000.000	19934.463	35505.60	0.4154	P	0.6
8	☐			98.89	0.0012	P	11.0

$$y = 2.0773E-005 * x + 0.0013$$

$$R = 1.0000$$

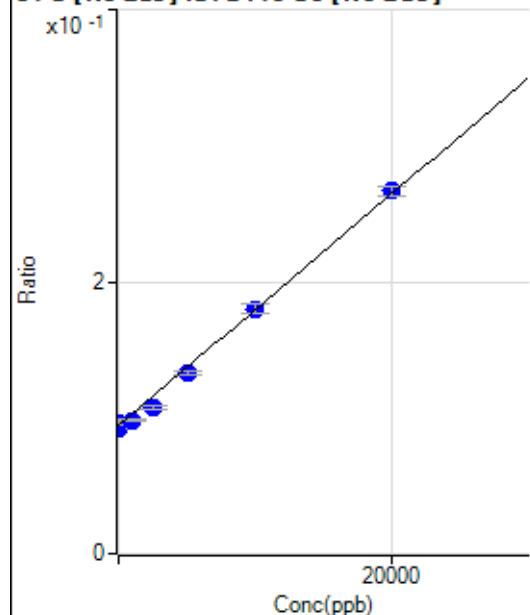
$$DL = 12.13$$

$$BEC = 64.66$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-280.072	260519.32	0.0921	P	1.1
2	☐	0.000	280.072	264077.01	0.0968	P	4.4
3	☐	1000.000	424.992	272013.76	0.0981	P	1.4
4	☐	2500.000	1491.266	289753.42	0.1072	P	2.7
5	☐	5000.000	4522.540	353603.72	0.1330	P	1.9
6	☐	10000.000	10068.239	468942.33	0.1802	P	4.2
7	☐	20000.000	20240.088	695312.78	0.2668	P	2.4
8	☐			222150.25	0.0956	P	6.8

$$y = 8.5154\text{E-}006 * x + 0.0945$$

$$R = 0.9984$$

$$DL = 932.5$$

$$BEC = 1.109\text{E}+04$$

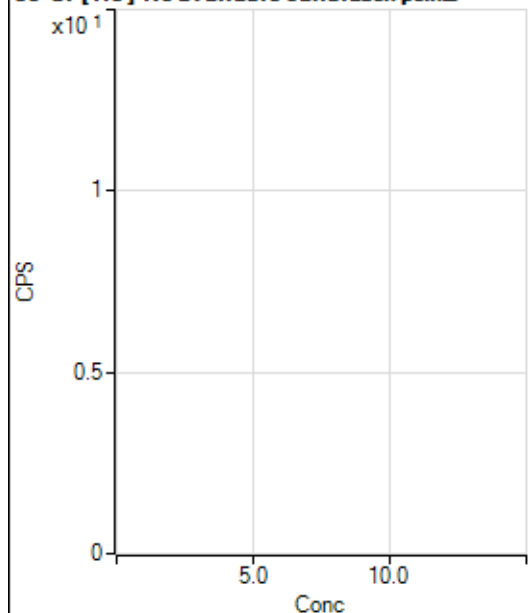
Weight: <None>

Min Conc: 0

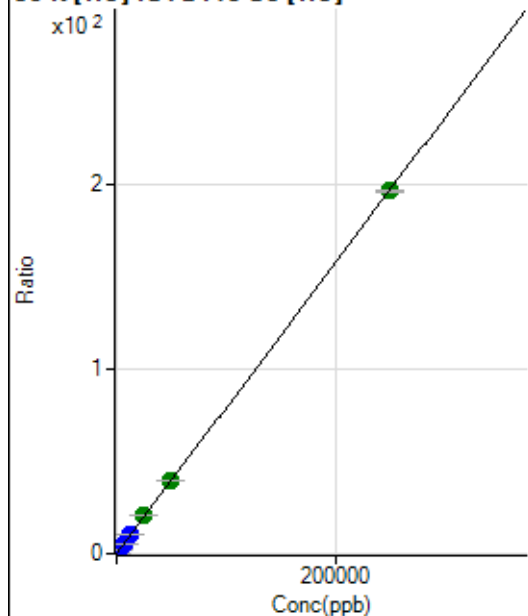
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			123343.31		P	9.5
2	☐			122809.73		P	9.6
3	☐			126651.63		P	9.5
4	☐			133820.77		P	7.6
5	☐			156585.27		P	4.9
6	☐			208527.40		P	2.5
7	☐			357599.44		P	0.7
8	☐			124934.92		P	8.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			734.47		P	8.9
2	☐			748.92		P	11.5
3	☐			766.69		P	2.0
4	☐			841.14		P	5.7
5	☐			1034.49		P	7.9
6	☐			1435.64		P	5.6
7	☐			2522.46		P	2.5
8	☐			790.03		P	2.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6878.36	0.0710	P	1.8
2	☐	500.000	482.413	43190.02	0.4496	P	2.1
3	☐	2500.000	2671.062	192244.84	2.1670	P	1.5
4	☐	6250.000	6341.645	464679.92	5.0472	P	0.9
5	☐	12500.000	12706.067	898792.09	10.0412	P	1.1
6	☐	25000.000	25997.562	1792163.13	20.4707	A	0.9
7	☐	50000.000	50328.015	3381250.75	39.5622	A	1.2
8	☐	250000.00	249820.37	16437850.45	196.0989	A	0.5

$$y = 7.8468\text{E-}004 * x + 0.0710$$

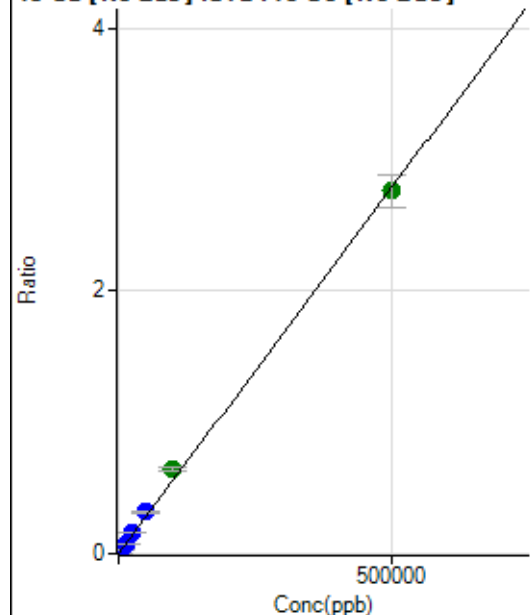
$$R = 1.0000$$

$$DL = 4.892$$

$$BEC = 90.54$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	266.67	0.0001	P	8.0
2	☐	500.000	475.514	7480.89	0.0027	P	3.6
3	☐	5000.000	5706.566	88404.28	0.0319	P	1.0
4	☐	12500.000	14212.188	214310.42	0.0793	P	2.6
5	☐	25000.000	28733.394	425823.15	0.1601	P	2.3
6	☐	50000.000	57001.337	826529.36	0.3176	P	4.0
7	☐	100000.00	115295.33	1674078.31	0.6423	A	3.1
8	☐	500000.00	496004.28	6410835.88	2.7627	A	9.0

$$y = 5.5698\text{E-}006 * x + 9.4213\text{E-}005$$

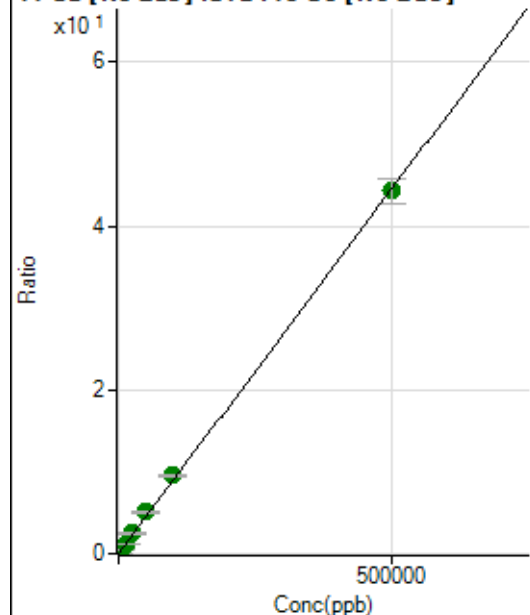
$$R = 0.9994$$

$$DL = 4.084$$

$$BEC = 16.91$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21493.93	0.0076	P	0.5
2	☐	500.000	495.562	140894.60	0.0517	P	4.5
3	☐	5000.000	5654.230	1415585.60	0.5105	A	0.1
4	☐	12500.000	14023.796	3393830.78	1.2548	A	1.7
5	☐	25000.000	27706.719	6571389.83	2.4717	A	3.8
6	☐	50000.000	56647.929	13128675.64	5.0457	A	5.0
7	☐	100000.00	106990.28	24814623.24	9.5229	A	3.0
8	☐	500000.00	497757.18	102857470.6	44.2763	A	6.6

$$y = 8.8936\text{E-}005 * x + 0.0076$$

$$R = 0.9998$$

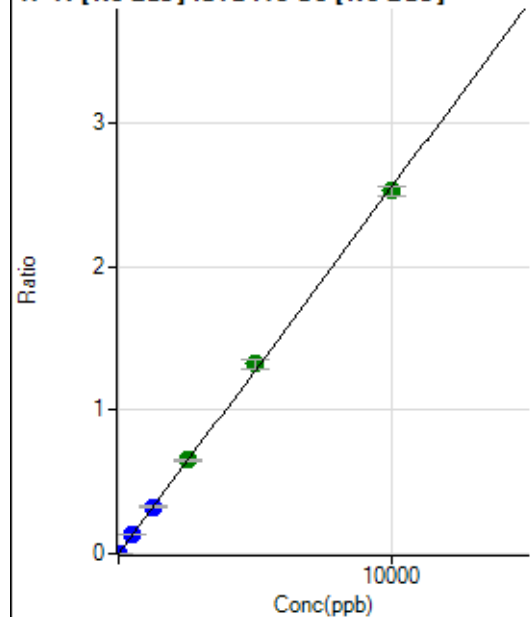
$$DL = 1.324$$

$$BEC = 85.41$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.44	0.0000	P	27.1
2	☐	5.000	4.903	3474.90	0.0013	P	2.8
3	☐	500.000	509.891	361702.36	0.1304	P	1.0
4	☐	1250.000	1275.758	882426.61	0.3263	P	2.9
5	☐	2500.000	2556.852	1739375.28	0.6540	A	1.5
6	☐	5000.000	5169.186	3441161.61	1.3222	A	4.2
7	☐	10000.000	9897.480	6597260.53	2.5316	A	3.0
8	☐			1744.57	0.0008	P	10.0

$$y = 2.5578\text{E-}004 * x + 1.9225\text{E-}005$$

$$R = 0.9998$$

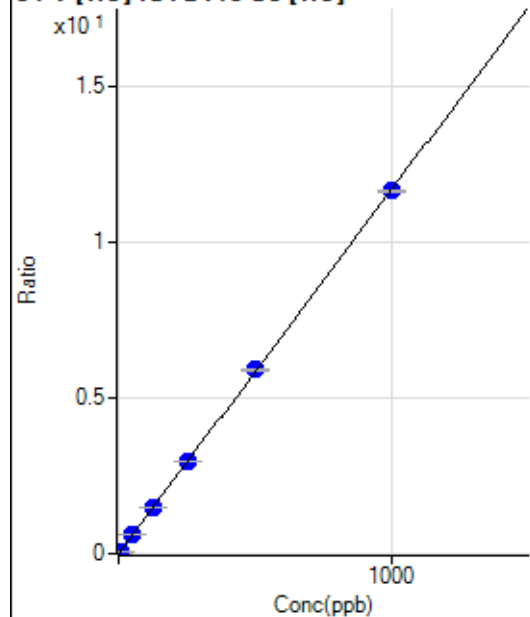
$$DL = 0.06113$$

$$BEC = 0.07516$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0001	P	104.
2	☐	5.000	4.861	5479.98	0.0570	P	3.3
3	☐	50.000	52.793	54839.09	0.6181	P	1.3
4	☐	125.000	125.752	135542.83	1.4722	P	0.4
5	☐	250.000	253.674	265813.39	2.9696	P	1.1
6	☐	500.000	504.520	517038.93	5.9060	P	0.8
7	☐	1000.000	996.589	997033.65	11.6662	P	0.6
8	☐			361.12	0.0043	P	5.3

$$y = 0.0117 * x + 1.2708\text{E-}004$$

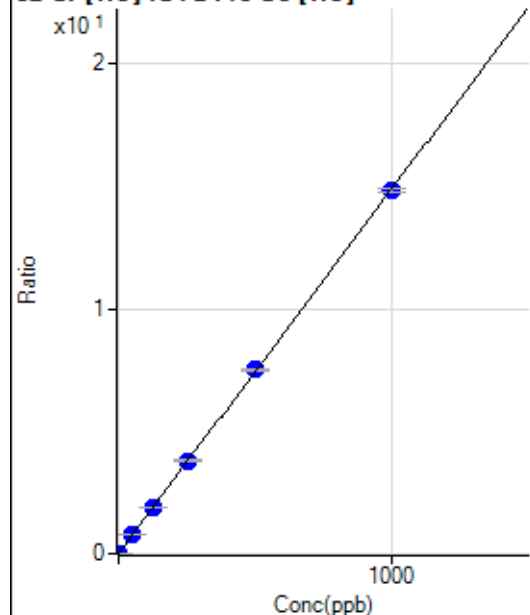
$$R = 1.0000$$

$$DL = 0.0339$$

$$BEC = 0.01086$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	661.13	0.0068	P	5.7
2	☐	2.000	2.007	3519.36	0.0366	P	6.3
3	☐	50.000	53.597	71255.35	0.8033	P	2.3
4	☐	125.000	126.593	173828.89	1.8880	P	0.4
5	☐	250.000	255.583	340588.12	3.8048	P	0.7
6	☐	500.000	504.664	657115.23	7.5062	P	0.4
7	☐	1000.000	995.894	1265362.73	14.8059	P	1.0
8	☐			19375.41	0.2311	P	0.6

$$y = 0.0149 * x + 0.0068$$

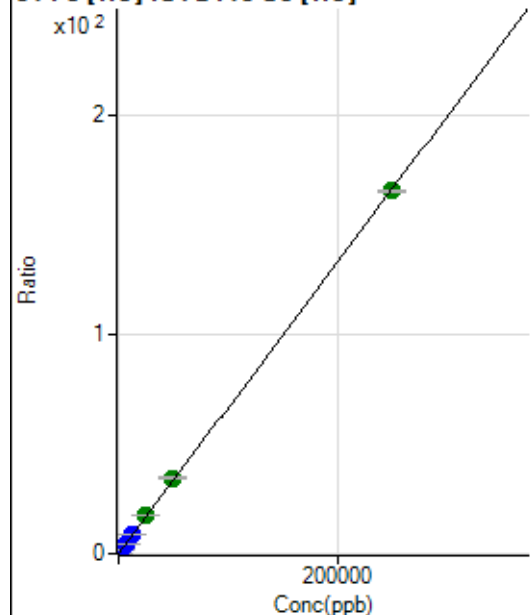
$$R = 1.0000$$

$$DL = 0.07896$$

$$BEC = 0.4596$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	256.67	0.0026	P	11.0
2	☐	50.000	51.041	3508.24	0.0365	P	2.0
3	☐	2500.000	2754.044	162333.47	1.8300	P	2.3
4	☐	6250.000	6526.638	398940.34	4.3332	P	1.4
5	☐	12500.000	13248.821	787125.72	8.7935	P	0.5
6	☐	25000.000	26410.872	1534364.00	17.5268	A	0.9
7	☐	50000.000	52113.056	2955370.89	34.5807	A	0.8
8	☐	250000.00	249389.40	13871378.96	165.4773	A	0.6

$$y = 6.6352E-004 * x + 0.0026$$

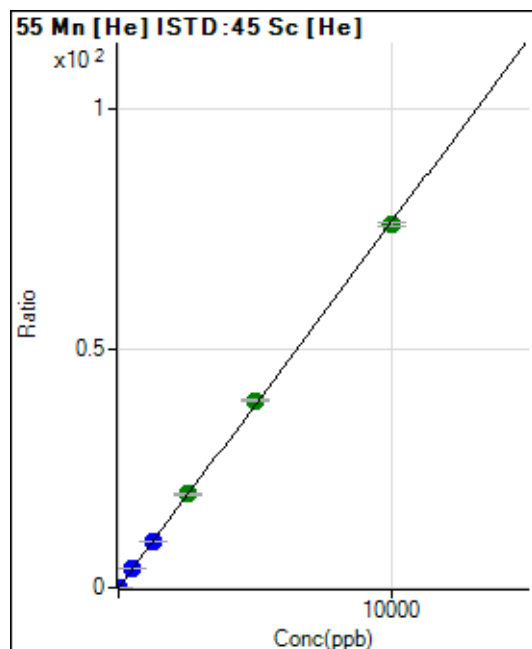
$$R = 1.0000$$

$$DL = 1.321$$

$$BEC = 3.993$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0013	P	7.4
2	☐	1.000	0.891	781.14	0.0081	P	4.7
3	☐	500.000	528.588	358712.09	4.0443	P	3.1
4	☐	1250.000	1250.660	880808.88	9.5671	P	1.1
5	☐	2500.000	2564.946	1756250.86	19.6196	A	1.9
6	☐	5000.000	5116.400	3425881.93	39.1346	A	0.6
7	☐	10000.000	9924.051	6487159.98	75.9065	A	1.0
8	☐			5024.26	0.0599	P	1.9

$$y = 0.0076 * x + 0.0013$$

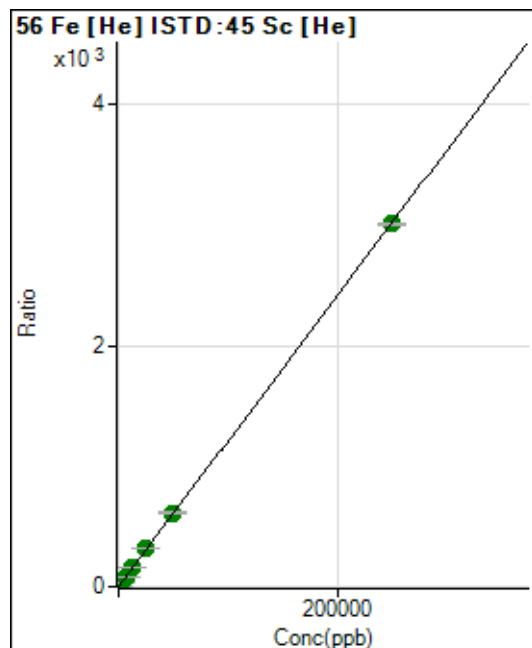
$$R = 0.9999$$

$$DL = 0.03856$$

$$BEC = 0.1726$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1483.42	0.0153	P	6.8
2	☐	50.000	49.697	59023.73	0.6144	P	2.0
3	☐	2500.000	2799.079	2994229.43	33.7574	A	3.1
4	☐	6250.000	6632.032	7361758.99	79.9625	A	1.3
5	☐	12500.000	13245.745	14293724.51	159.6888	A	1.3
6	☐	25000.000	26174.682	27621328.20	315.5432	A	1.5
7	☐	50000.000	50802.083	52340872.00	612.4191	A	0.8
8	☐	250000.00	249672.28	252293585.1	3,009.739	A	0.4

$$y = 0.0121 * x + 0.0153$$

$$R = 1.0000$$

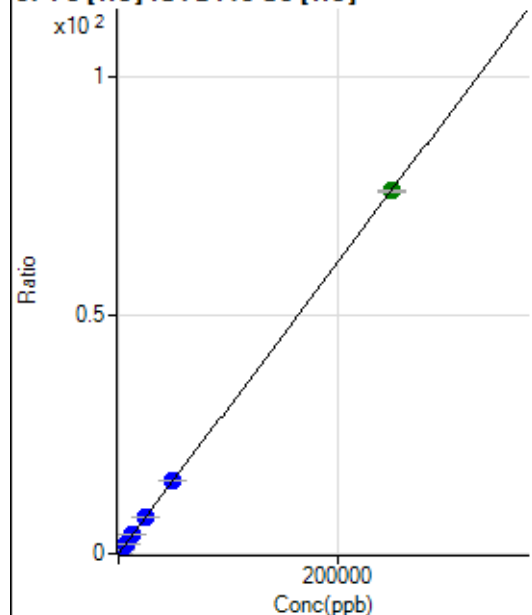
$$DL = 0.26$$

$$BEC = 1.271$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	72.22	0.0007	P	36.5
2	☐	50.000	50.489	1546.77	0.0161	P	2.6
3	☐	2500.000	2718.808	73407.82	0.8275	P	2.1
4	☐	6250.000	6454.946	180786.65	1.9637	P	1.2
5	☐	12500.000	13023.720	354573.75	3.9612	P	0.6
6	☐	25000.000	25650.150	682902.90	7.8008	P	0.2
7	☐	50000.000	50690.550	1317482.47	15.4154	P	0.6
8	☐	250000.00	249763.37	6366533.31	75.9523	A	0.7

$$y = 3.0409\text{E-}004 * x + 7.4738\text{E-}004$$

$$R = 1.0000$$

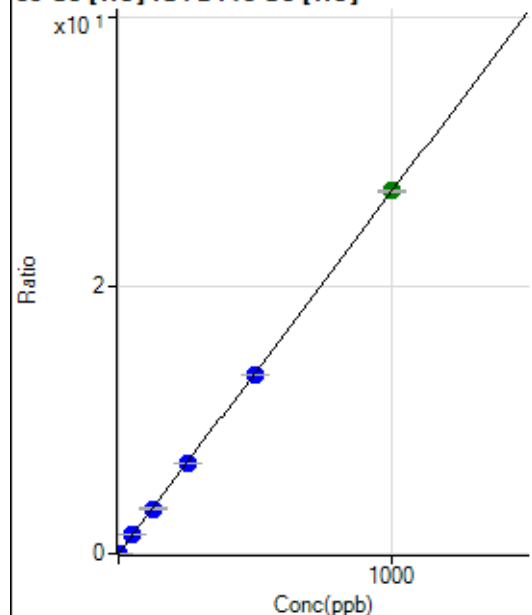
$$DL = 2.693$$

$$BEC = 2.458$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.11	0.0007	P	18.8
2	☐	1.000	1.043	2775.85	0.0289	P	7.3
3	☐	50.000	52.575	125978.63	1.4203	P	3.1
4	☐	125.000	124.329	309135.26	3.3577	P	1.0
5	☐	250.000	249.727	603624.14	6.7436	P	1.3
6	☐	500.000	493.919	1167589.74	13.3370	P	0.3
7	☐	1000.000	1003.064	2314762.34	27.0845	A	0.3
8	☐			5595.59	0.0667	P	1.3

$$y = 0.0270 * x + 7.3392\text{E-}004$$

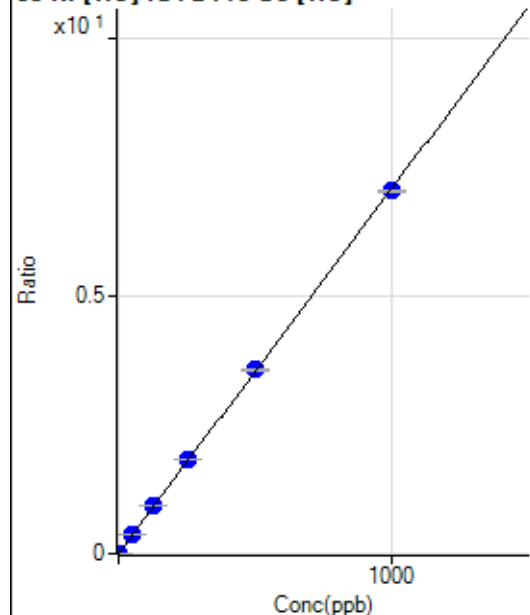
$$R = 1.0000$$

$$DL = 0.01533$$

$$BEC = 0.02718$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	66.67	0.0007	P	44.4
2	☐	1.000	0.996	743.36	0.0077	P	2.3
3	☐	50.000	54.354	34142.12	0.3849	P	3.2
4	☐	125.000	129.846	84577.21	0.9186	P	0.4
5	☐	250.000	258.404	163576.99	1.8274	P	0.8
6	☐	500.000	504.505	312298.44	3.5672	P	0.9
7	☐	1000.000	994.823	601115.17	7.0334	P	0.5
8	☐			5925.73	0.0707	P	2.5

$$y = 0.0071 * x + 6.9059E-004$$

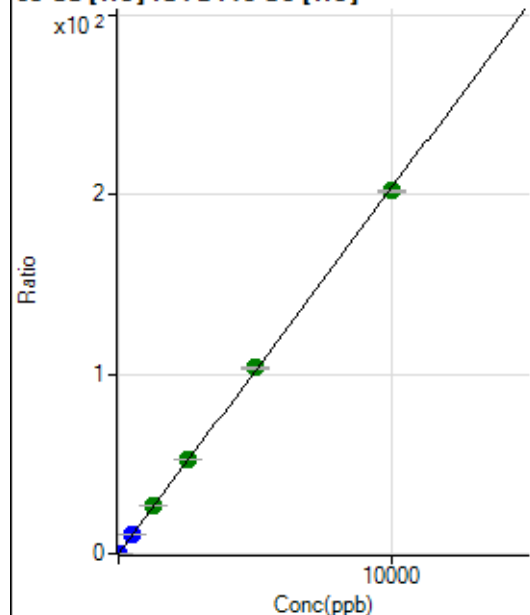
$$R = 0.9999$$

$$DL = 0.13$$

$$BEC = 0.09769$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	574.46	0.0059	P	15.1
2	☐	2.000	1.837	4163.98	0.0433	P	3.7
3	☐	500.000	537.591	971275.44	10.9503	P	2.9
4	☐	1250.000	1315.600	2466543.84	26.7892	A	0.2
5	☐	2500.000	2591.429	4722917.81	52.7629	A	0.8
6	☐	5000.000	5094.351	9080045.21	103.7179	A	0.9
7	☐	10000.000	9919.888	17260342.66	201.9574	A	0.6
8	☐			5959.09	0.0711	P	2.5

$$y = 0.0204 * x + 0.0059$$

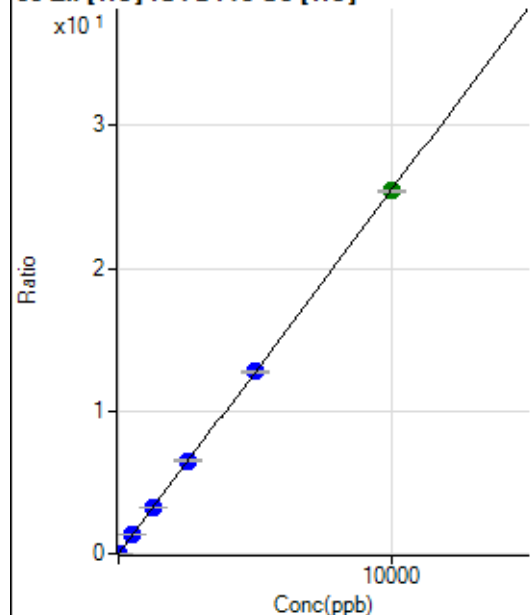
$$R = 0.9999$$

$$DL = 0.1318$$

$$BEC = 0.2916$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	218.89	0.0023	P	4.4
2	☐	2.000	4.475	1312.29	0.0137	P	6.5
3	☐	500.000	543.233	122947.26	1.3861	P	3.0
4	☐	1250.000	1272.208	298594.28	3.2432	P	0.9
5	☐	2500.000	2560.631	584093.51	6.5254	P	1.1
6	☐	5000.000	5000.816	1115428.56	12.7418	P	0.5
7	☐	10000.000	9979.496	2172948.48	25.4249	A	0.4
8	☐			3339.31	0.0398	P	4.1

$$y = 0.0025 * x + 0.0023$$

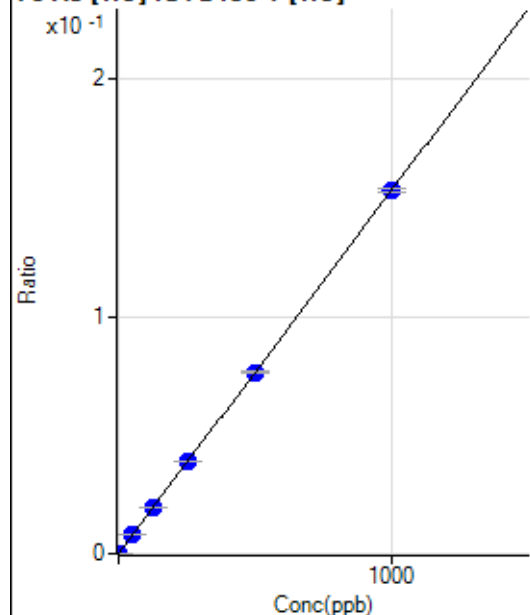
$$R = 1.0000$$

$$DL = 0.1184$$

$$BEC = 0.8875$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4.45	0.0000	P	86.6
2	☐	1.000	1.084	142.23	0.0002	P	32.3
3	☐	50.000	53.420	6265.90	0.0082	P	5.1
4	☐	125.000	127.038	15309.53	0.0195	P	1.8
5	☐	250.000	253.070	29868.42	0.0388	P	0.6
6	☐	500.000	499.761	57882.91	0.0766	P	0.8
7	☐	1000.000	998.926	111379.58	0.1531	P	0.9
8	☐			64.44	0.0001	P	13.4

$$y = 1.5323E-004 * x + 5.3188E-006$$

$$R = 1.0000$$

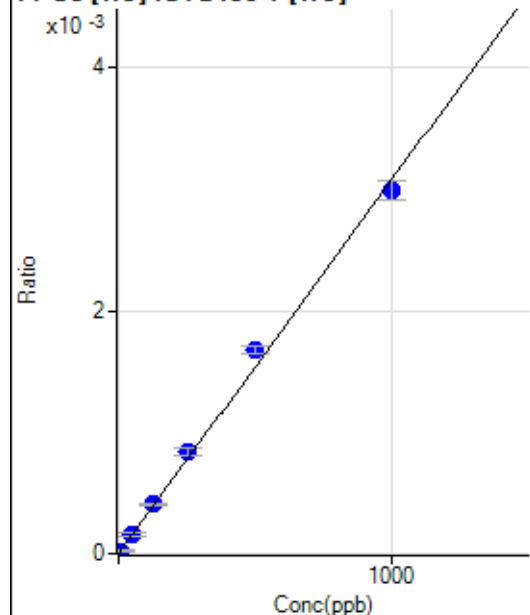
$$DL = 0.09018$$

$$BEC = 0.03471$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	7.396	18.89	0.0000	P	27.4
3	☐	50.000	52.104	122.22	0.0002	P	17.9
4	☐	125.000	131.547	317.79	0.0004	P	6.3
5	☐	250.000	273.359	646.69	0.0008	P	7.5
6	☐	500.000	544.648	1264.51	0.0017	P	3.3
7	☐	1000.000	970.901	2170.19	0.0030	P	5.2
8	☐			0.00	0.0000	P	

$$y = 3.0723\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9982$$

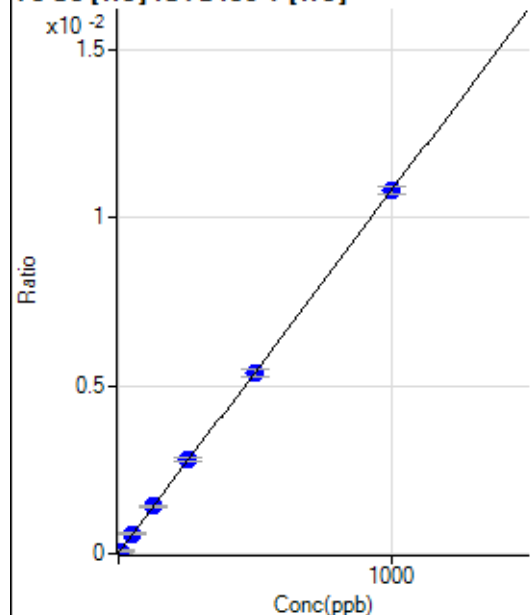
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	15.55	0.0000	P	69.1
2	☐	5.000	5.940	68.89	0.0001	P	10.0
3	☐	50.000	53.741	458.90	0.0006	P	3.7
4	☐	125.000	129.130	1111.17	0.0014	P	4.9
5	☐	250.000	256.309	2145.75	0.0028	P	4.4
6	☐	500.000	496.720	4068.41	0.0054	P	3.8
7	☐	1000.000	999.355	7865.60	0.0108	P	2.1
8	☐			13.33	0.0000	P	24.0

$$y = 1.0798\text{E-}005 * x + 1.8685\text{E-}005$$

$$R = 1.0000$$

$$DL = 3.586$$

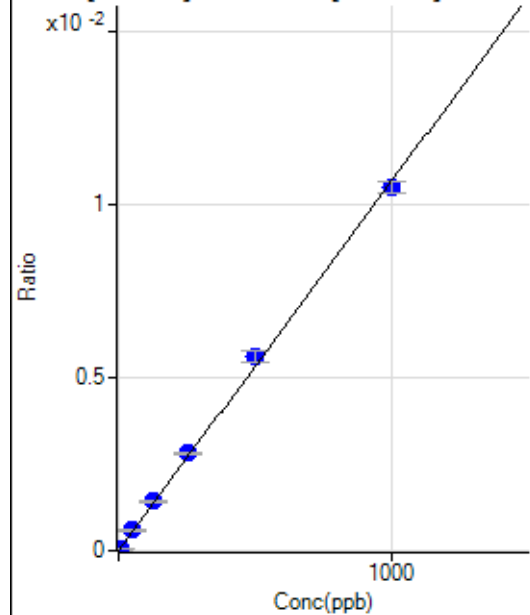
$$BEC = 1.73$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2081.28		P	3.4
2	☐			2027.95		P	2.8
3	☐			1947.93		P	8.7
4	☐			1817.92		P	6.0
5	☐			1914.60		P	2.2
6	☐			1926.82		P	0.3
7	☐			1953.49		P	1.7
8	☐			1691.23		P	1.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-40.00	0.0000	P	-50.
2	☐	5.000	5.913	464.46	0.0001	P	12.0
3	☐	50.000	54.944	4713.11	0.0006	P	2.7
4	☐	125.000	132.886	11053.51	0.0014	P	1.2
5	☐	250.000	264.722	22005.41	0.0028	P	2.1
6	☐	500.000	525.234	42702.05	0.0056	P	6.4
7	☐	1000.000	982.465	80776.65	0.0105	P	3.1
8	☐			43.33	0.0000	P	114.

$$y = 1.0669E-005 * x - 4.8692E-006$$

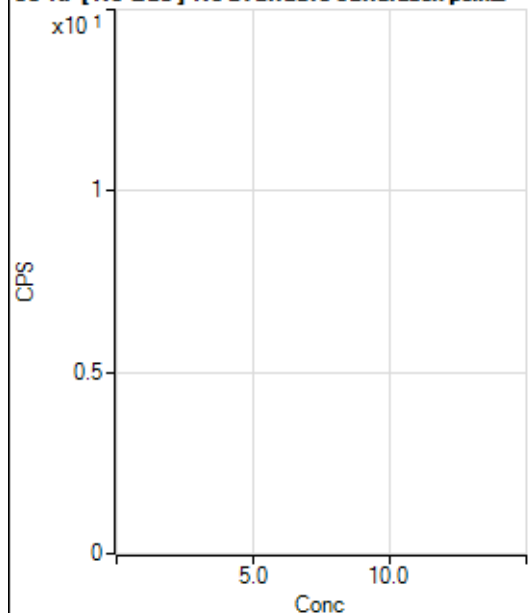
$$R = 0.9994$$

$$DL = 0.6892$$

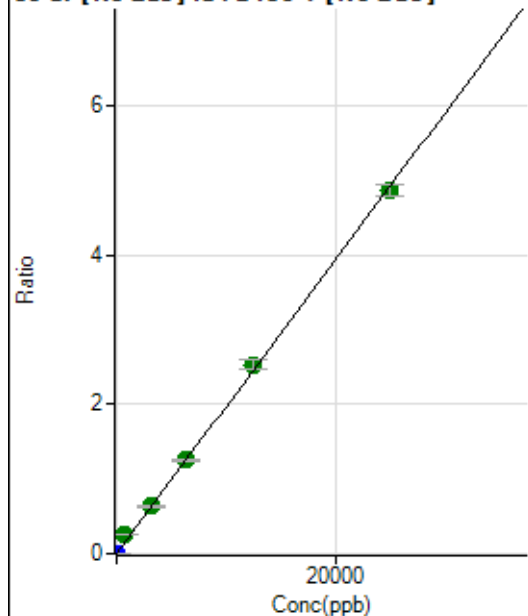
$$BEC = -0.4564$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			173.34		P	15.0
2	☐			168.89		P	19.8
3	☐			152.22		P	19.1
4	☐			180.00		P	12.1
5	☐			151.11		P	8.4
6	☐			151.11		P	28.1
7	☐			146.67		P	4.5
8	☐			143.34		P	16.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	331.12	0.0000	P	8.6
2	☐	1.000	1.030	1932.37	0.0002	P	4.8
3	☐	625.000	1288.891	2052729.34	0.2533	A	1.1
4	☐	3125.000	3216.450	4943007.60	0.6319	A	2.4
5	☐	6250.000	6381.859	9785881.80	1.2538	A	2.0
6	☐	12500.000	12907.165	19348329.02	2.5358	A	4.9
7	☐	25000.000	24735.424	37464043.61	4.8596	A	3.1
8	☐			9685.66	0.0014	P	4.4

$$y = 1.9646E-004 * x + 4.0415E-005$$

$$R = 0.9995$$

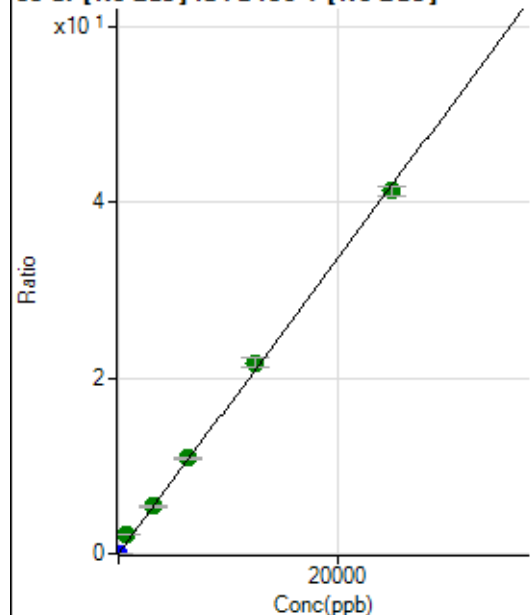
$$DL = 0.05293$$

$$BEC = 0.2057$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	697.80	0.0001	P	7.0
2	☐	1.000	1.010	14155.06	0.0018	P	5.1
3	☐	625.000	1268.792	17241616.97	2.1270	A	0.6
4	☐	3125.000	3219.254	42212084.93	5.3966	A	2.3
5	☐	6250.000	6511.594	85200209.29	10.9157	A	1.4
6	☐	12500.000	13001.958	166305910.8	21.7957	A	4.9
7	☐	25000.000	24655.746	318649901.9	41.3313	A	2.8
8	☐			81882.22	0.0119	P	7.1

$$y = 0.0017 * x + 8.5148E-005$$

$$R = 0.9994$$

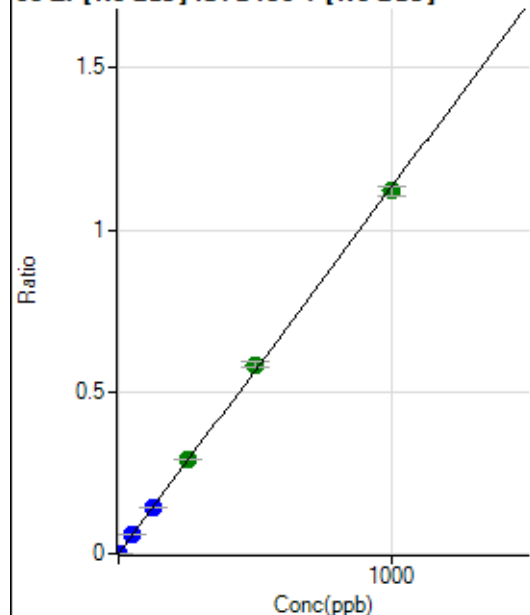
$$DL = 0.01065$$

$$BEC = 0.05079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	242.23	0.0000	P	9.9
2	☐	1.000	0.952	8821.75	0.0011	P	2.3
3	☐	50.000	50.283	461587.67	0.0569	P	0.9
4	☐	125.000	126.335	1118962.51	0.1430	P	1.3
5	☐	250.000	257.336	2273889.79	0.2913	A	1.0
6	☐	500.000	516.474	4462394.06	0.5846	A	3.9
7	☐	1000.000	989.748	8637696.82	1.1204	A	2.9
8	☐			1974.61	0.0003	P	10.6

$$y = 0.0011 * x + 2.9552E-005$$

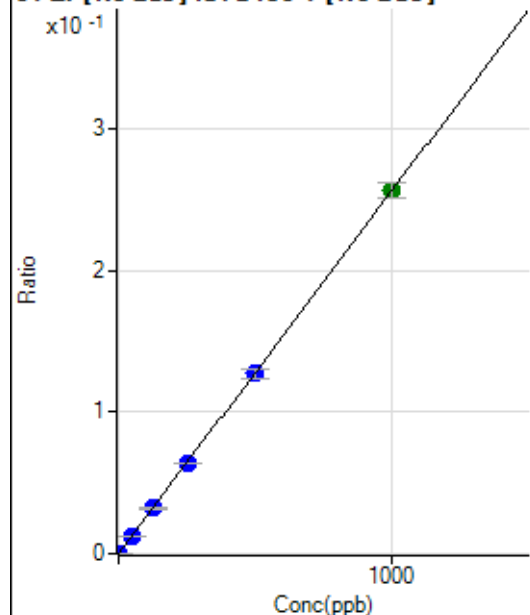
$$R = 0.9998$$

$$DL = 0.007754$$

$$BEC = 0.02611$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	60.00	0.0000	P	14.5
2	☐	1.000	0.925	1946.82	0.0002	P	0.2
3	☐	50.000	49.101	102017.10	0.0126	P	0.6
4	☐	125.000	125.409	251380.80	0.0321	P	1.3
5	☐	250.000	249.628	499173.21	0.0640	P	1.5
6	☐	500.000	497.844	972963.11	0.1275	P	5.5
7	☐	1000.000	1001.165	1976996.20	0.2565	A	4.2
8	☐			383.34	0.0001	P	6.1

$$y = 2.5617\text{E-}004 * x + 7.3186\text{E-}006$$

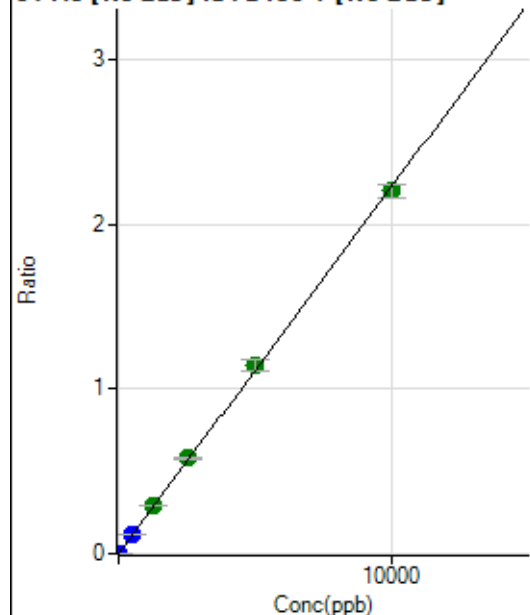
$$R = 1.0000$$

$$DL = 0.01241$$

$$BEC = 0.02857$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	100.00	0.0000	P	19.2
2	☐	5.000	5.873	10510.73	0.0013	P	5.0
3	☐	500.000	512.670	925655.01	0.1142	P	1.9
4	☐	1250.000	1304.991	2274631.42	0.2907	A	2.7
5	☐	2500.000	2602.368	4524606.15	0.5797	A	0.8
6	☐	5000.000	5159.835	8766061.47	1.1493	A	6.1
7	☐	10000.000	9886.983	16976561.41	2.2022	A	3.7
8	☐			5158.80	0.0007	P	7.7

$$y = 2.2274\text{E-}004 * x + 1.2209\text{E-}005$$

$$R = 0.9997$$

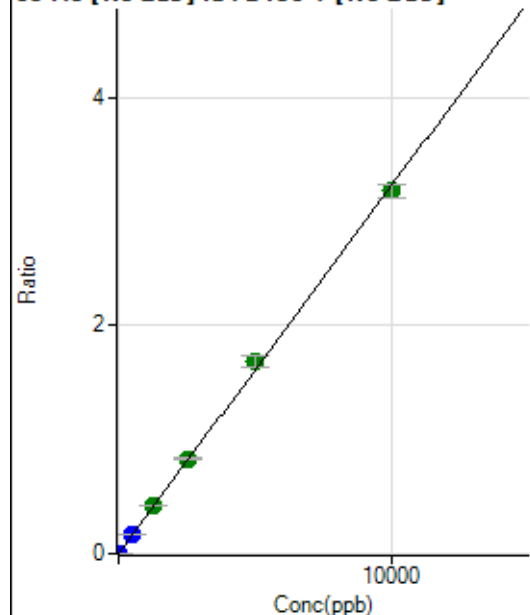
$$DL = 0.03154$$

$$BEC = 0.05481$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	51.11	0.0000	P	14.0
2	☐	5.000	5.020	12948.32	0.0016	P	4.6
3	☐	500.000	508.716	1330935.78	0.1642	P	0.9
4	☐	1250.000	1299.378	3280983.39	0.4194	A	2.0
5	☐	2500.000	2579.953	6499668.51	0.8327	A	1.5
6	☐	5000.000	5225.555	12863932.45	1.6866	A	6.2
7	☐	10000.000	9860.626	24533064.63	3.1826	A	4.0
8	☐			7731.13	0.0011	P	7.5

$$y = 3.2276E-004 * x + 6.2383E-006$$

$$R = 0.9996$$

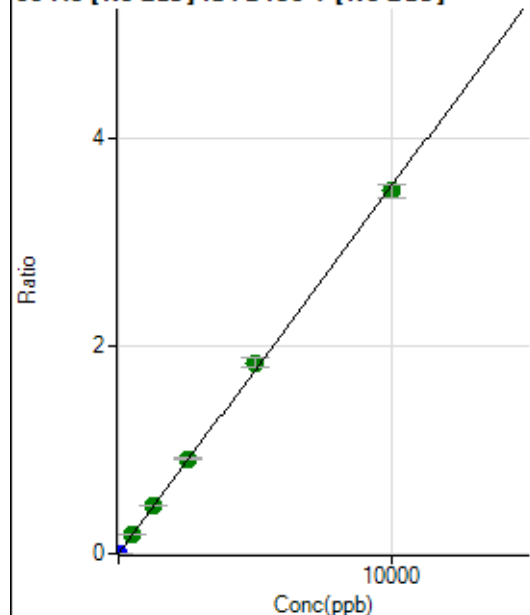
$$DL = 0.008104$$

$$BEC = 0.01933$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	20.0
2	☐	5.000	5.000	14204.02	0.0018	P	1.9
3	☐	500.000	517.704	1487640.54	0.1835	A	1.4
4	☐	1250.000	1299.075	3602584.81	0.4605	A	0.9
5	☐	2500.000	2581.884	7142842.53	0.9152	A	1.9
6	☐	5000.000	5202.500	14069889.65	1.8441	A	5.2
7	☐	10000.000	9871.259	26973795.71	3.4990	A	3.4
8	☐			8628.34	0.0013	P	9.4

$$y = 3.5446E-004 * x + 1.0836E-005$$

$$R = 0.9996$$

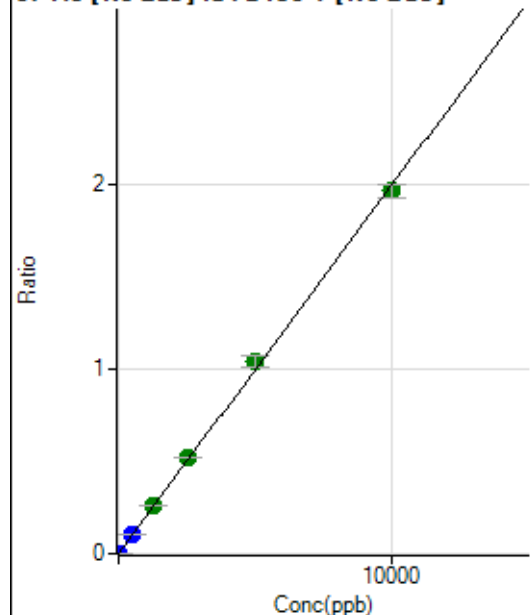
$$DL = 0.01834$$

$$BEC = 0.03057$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.33	0.0000	P	74.9
2	☐	5.000	4.965	7887.85	0.0010	P	5.7
3	☐	500.000	510.254	824308.68	0.1017	P	1.4
4	☐	1250.000	1303.065	2032158.16	0.2597	A	0.9
5	☐	2500.000	2593.719	4035596.05	0.5170	A	0.4
6	☐	5000.000	5231.853	7953646.83	1.0428	A	6.1
7	☐	10000.000	9853.498	15139880.19	1.9639	A	3.5
8	☐			4750.87	0.0007	P	5.6

$$y = 1.9931E-004 * x + 1.6285E-006$$

$$R = 0.9995$$

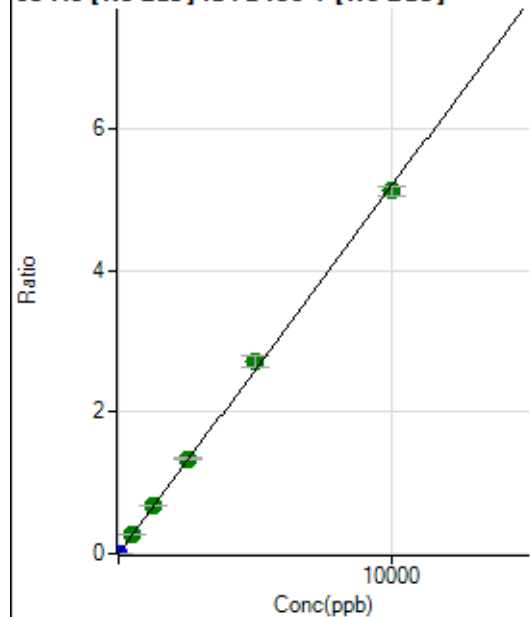
$$DL = 0.01836$$

$$BEC = 0.00817$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0000	P	18.0
2	☐	5.000	4.982	20662.12	0.0026	P	3.4
3	☐	500.000	513.763	2161781.76	0.2667	A	0.6
4	☐	1250.000	1299.913	5279292.46	0.6748	A	1.5
5	☐	2500.000	2569.278	10408901.58	1.3337	A	2.2
6	☐	5000.000	5216.334	20654880.66	2.7078	A	5.8
7	☐	10000.000	9867.586	39490213.30	5.1222	A	2.8
8	☐			11993.08	0.0017	P	7.8

$$y = 5.1909E-004 * x + 8.8041E-006$$

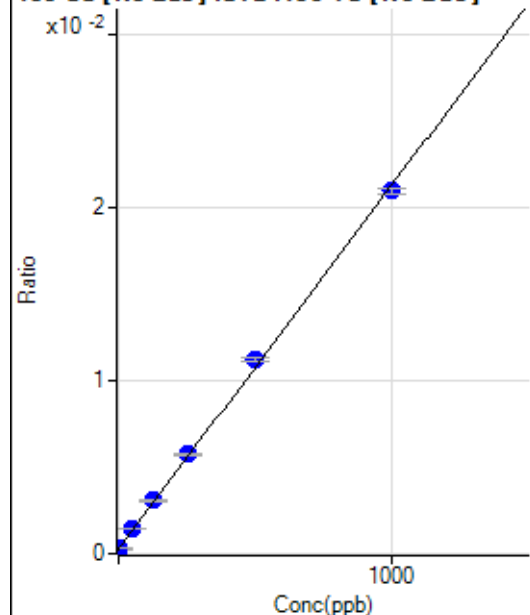
$$R = 0.9996$$

$$DL = 0.009183$$

$$BEC = 0.01696$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1802.36	0.0003	P	3.6
2	☐	1.000	1.077	1901.26	0.0003	P	3.0
3	☐	50.000	55.397	9391.06	0.0014	P	2.8
4	☐	125.000	133.233	20064.65	0.0031	P	2.8
5	☐	250.000	261.334	37837.41	0.0057	P	1.4
6	☐	500.000	521.155	72503.90	0.0112	P	2.3
7	☐	1000.000	985.290	136829.92	0.0209	P	1.5
8	☐			1671.23	0.0003	P	3.7

$$y = 2.0966E-005 * x + 2.7076E-004$$

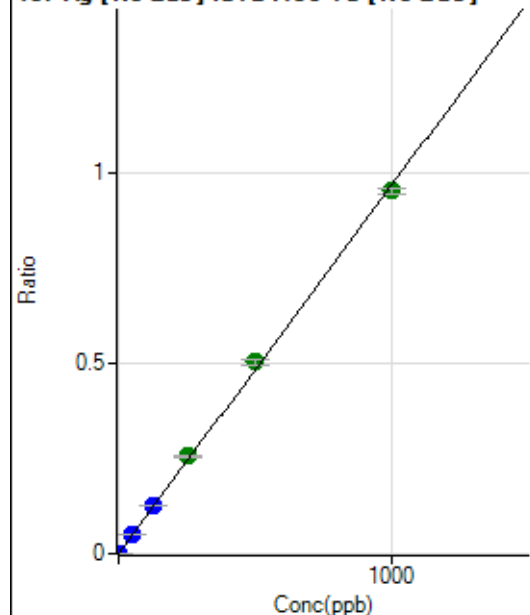
$$R = 0.9996$$

$$DL = 1.406$$

$$BEC = 12.91$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	92.23	0.0000	P	37.1
2	☐	1.000	0.996	6309.29	0.0010	P	7.7
3	☐	50.000	53.305	338053.23	0.0516	P	0.7
4	☐	125.000	130.072	823525.92	0.1258	P	2.9
5	☐	250.000	264.888	1685230.22	0.2561	A	1.8
6	☐	500.000	520.278	3257260.58	0.5031	A	2.4
7	☐	1000.000	985.340	6229025.46	0.9527	A	1.8
8	☐			2496.92	0.0004	P	8.1

$$y = 9.6687E-004 * x + 1.3895E-005$$

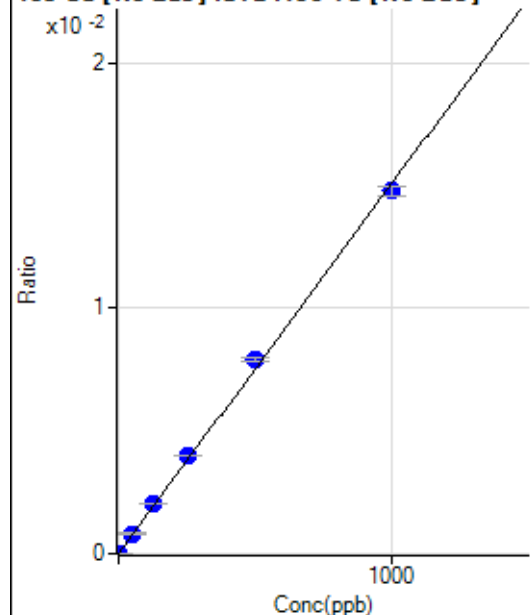
$$R = 0.9996$$

$$DL = 0.01601$$

$$BEC = 0.01437$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.33	0.0000	P	100.
2	☐	1.000	0.998	101.11	0.0000	P	31.7
3	☐	50.000	54.290	5368.88	0.0008	P	1.7
4	☐	125.000	135.729	13401.05	0.0020	P	2.3
5	☐	250.000	265.496	26335.30	0.0040	P	1.1
6	☐	500.000	526.577	51396.71	0.0079	P	2.2
7	☐	1000.000	981.282	96695.39	0.0148	P	2.4
8	☐			128.89	0.0000	P	8.9

$$y = 1.5073\text{E-}005 * x + 5.0754\text{E-}007$$

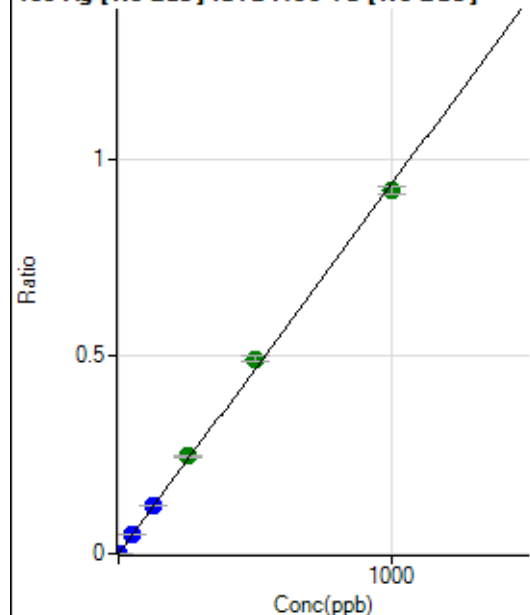
$$R = 0.9993$$

$$DL = 0.1017$$

$$BEC = 0.03367$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	45.56	0.0000	P	63.2
2	☐	1.000	1.036	6309.28	0.0010	P	5.2
3	☐	50.000	53.627	328825.11	0.0501	P	1.5
4	☐	125.000	130.442	798640.71	0.1220	P	2.7
5	☐	250.000	263.788	1622681.74	0.2467	A	2.3
6	☐	500.000	527.365	3192980.27	0.4931	A	2.4
7	☐	1000.000	982.009	6002773.17	0.9182	A	2.0
8	☐			2345.78	0.0004	P	8.2

$$y = 9.3501\text{E-}004 * x + 6.8980\text{E-}006$$

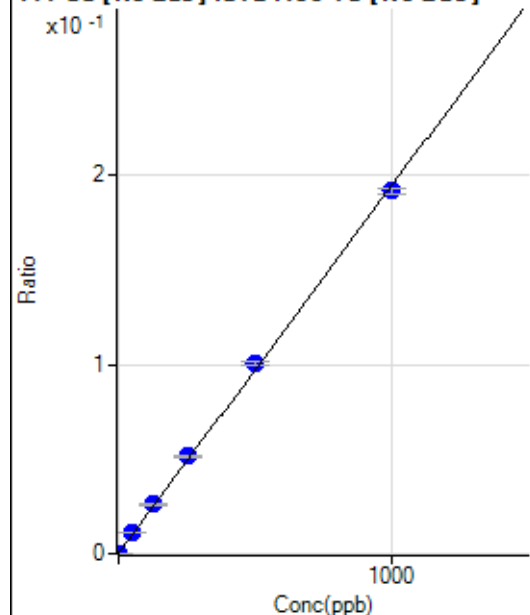
$$R = 0.9993$$

$$DL = 0.01399$$

$$BEC = 0.007377$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1270.43	0.0002	P	2.9
2	☐	1.000	1.055	2563.52	0.0004	P	0.4
3	☐	50.000	54.440	70589.57	0.0108	P	1.0
4	☐	125.000	132.790	170124.03	0.0260	P	2.6
5	☐	250.000	264.274	338939.15	0.0515	P	2.2
6	☐	500.000	517.073	651521.44	0.1006	P	2.0
7	☐	1000.000	986.699	1254151.48	0.1918	P	1.6
8	☐			1652.98	0.0003	P	5.0

$$y = 1.9422\text{E-}004 * x + 1.9084\text{E-}004$$

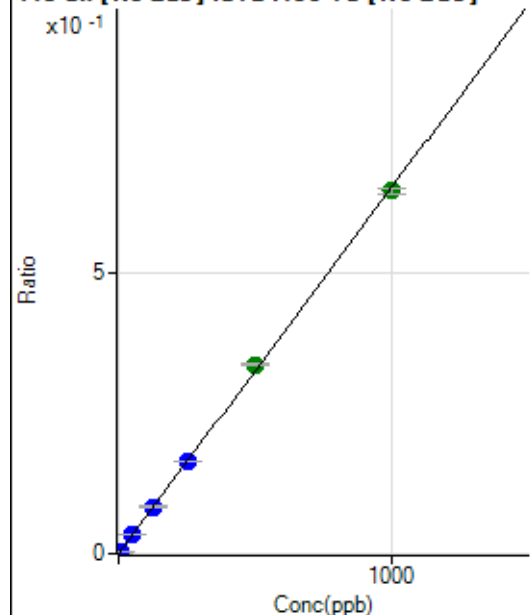
$$R = 0.9997$$

$$DL = 0.08607$$

$$BEC = 0.9826$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1128.95	0.0002	P	4.2
2	☐	5.000	4.968	22077.93	0.0034	P	4.8
3	☐	50.000	51.988	223752.76	0.0341	P	1.4
4	☐	125.000	127.250	545311.35	0.0833	P	2.6
5	☐	250.000	252.878	1087920.86	0.1653	P	0.9
6	☐	500.000	515.143	2179984.34	0.3366	A	1.0
7	☐	1000.000	991.328	4234048.76	0.6476	A	1.6
8	☐			3265.98	0.0005	P	3.5

$$y = 6.5312\text{E-}004 * x + 1.6961\text{E-}004$$

$$R = 0.9998$$

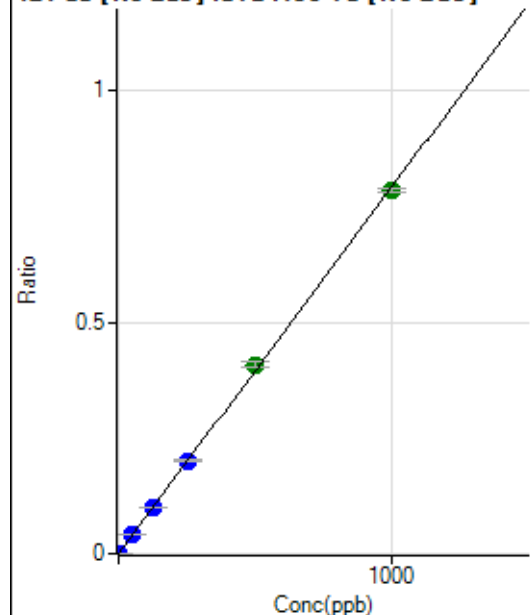
$$DL = 0.03275$$

$$BEC = 0.2597$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	54.45	0.0000	P	45.5
2	☐	2.000	2.066	10630.87	0.0016	P	5.0
3	☐	50.000	51.405	266960.07	0.0407	P	1.7
4	☐	125.000	126.765	657404.57	0.1004	P	2.1
5	☐	250.000	252.836	1317288.15	0.2002	P	2.0
6	☐	500.000	516.961	2650733.83	0.4094	A	3.4
7	☐	1000.000	990.519	5128953.74	0.7844	A	1.1
8	☐			3147.07	0.0005	P	17.8

$$y = 7.9188\text{E-}004 * x + 8.2231\text{E-}006$$

$$R = 0.9998$$

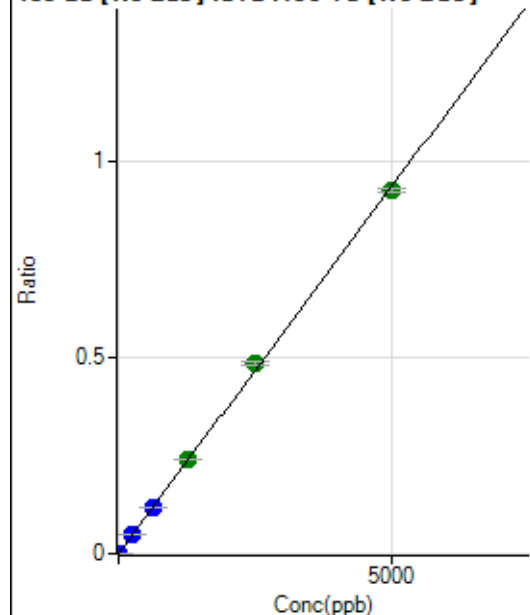
$$DL = 0.01417$$

$$BEC = 0.01038$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	9.6
2	☐	10.000	9.923	12047.68	0.0019	P	6.0
3	☐	250.000	255.876	313733.96	0.0478	P	1.3
4	☐	625.000	631.862	773632.83	0.1181	P	2.1
5	☐	1250.000	1291.438	1588992.37	0.2415	A	0.7
6	☐	2500.000	2587.580	3132561.86	0.4838	A	2.3
7	☐	5000.000	4944.699	6044354.01	0.9245	A	1.0
8	☐			2468.03	0.0004	P	8.7

$$y = 1.8696\text{E-}004 * x + 8.8488\text{E-}006$$

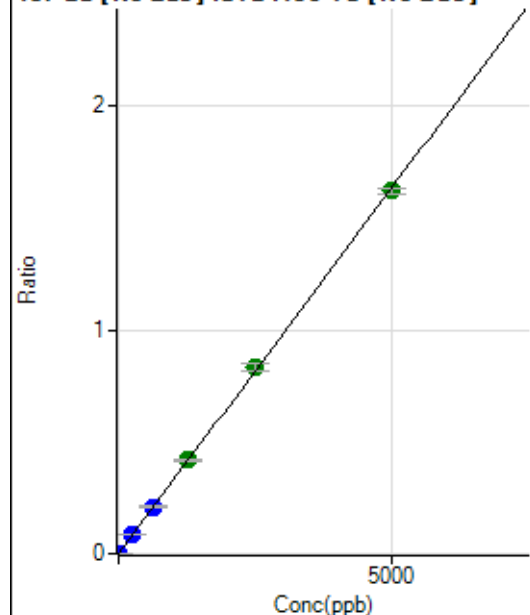
$$R = 0.9997$$

$$DL = 0.01359$$

$$BEC = 0.04733$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	80.00	0.0000	P	32.8
2	☐	10.000	10.121	21434.85	0.0033	P	4.1
3	☐	250.000	259.746	555768.49	0.0848	P	1.5
4	☐	625.000	643.542	1375189.10	0.2100	P	1.4
5	☐	1250.000	1286.363	2761223.57	0.4197	A	2.3
6	☐	2500.000	2547.789	5381968.22	0.8313	A	3.5
7	☐	5000.000	4964.210	10589311.99	1.6197	A	1.5
8	☐			4530.81	0.0008	P	7.5

$$y = 3.2626E-004 * x + 1.2020E-005$$

$$R = 0.9999$$

$$DL = 0.03624$$

$$BEC = 0.03684$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	17.3
2	☐			4.44		P	43.4
3	☐			26.67		P	43.3
4	☐			65.55		P	29.8
5	☐			136.67		P	4.2
6	☐			230.01		P	16.7
7	☐			383.34		P	12.0
8	☐			31.11		P	22.3

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			3.33		P	0.0
3	☐			6.67		P	50.0
4	☐			5.56		P	91.6
5	☐			18.89		P	10.2
6	☐			32.22		P	15.8
7	☐			55.55		P	24.3
8	☐			12.22		P	63.0

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.66		P	86.6
2	☐			3.33		P	0.0
3	☐			30.00		P	33.3
4	☐			67.78		P	7.5
5	☐			122.22		P	11.0
6	☐			206.67		P	7.0
7	☐			372.23		P	5.2
8	☐			552.24		P	9.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			5.56		P	34.7
3	☐			6.67		P	100.
4	☐			33.33		P	26.4
5	☐			56.67		P	5.9
6	☐			95.55		P	16.5
7	☐			168.89		P	12.5
8	☐			224.45		P	14.3

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			31.11		P	24.7
2	☐			27.78		P	54.1
3	☐			61.11		P	12.6
4	☐			67.78		P	36.9
5	☐			117.78		P	15.6
6	☐			234.45		P	5.7
7	☐			382.23		P	15.4
8	☐			594.46		P	6.0

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			81.11		P	2.4
2	☐			86.67		P	17.6
3	☐			96.67		P	22.6
4	☐			94.45		P	19.4
5	☐			105.56		P	12.0
6	☐			135.56		P	9.9
7	☐			207.78		P	9.8
8	☐			332.23		P	12.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.55		P	8.5
2	☐			40.00		P	33.3
3	☐			62.22		P	24.7
4	☐			75.55		P	9.2
5	☐			73.33		P	4.5
6	☐			117.78		P	11.8
7	☐			210.00		P	9.9
8	☐			70.00		P	25.2

164 Er [He] No available calibration points

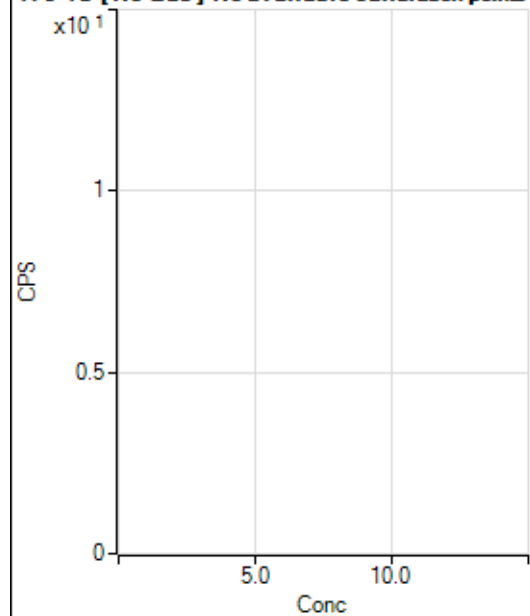
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.44		P	13.4
2	☐			14.44		P	13.4
3	☐			12.22		P	41.7
4	☐			21.11		P	18.2
5	☐			43.33		P	7.7
6	☐			53.34		P	54.1
7	☐			60.00		P	9.6
8	☐			31.11		P	12.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	11.5
2	☐			41.11		P	16.9
3	☐			50.00		P	11.5
4	☐			55.56		P	42.6
5	☐			71.11		P	54.3
6	☐			107.78		P	24.0
7	☐			175.56		P	11.1
8	☐			404.46		P	10.6

172 Yb [He] No available calibration points

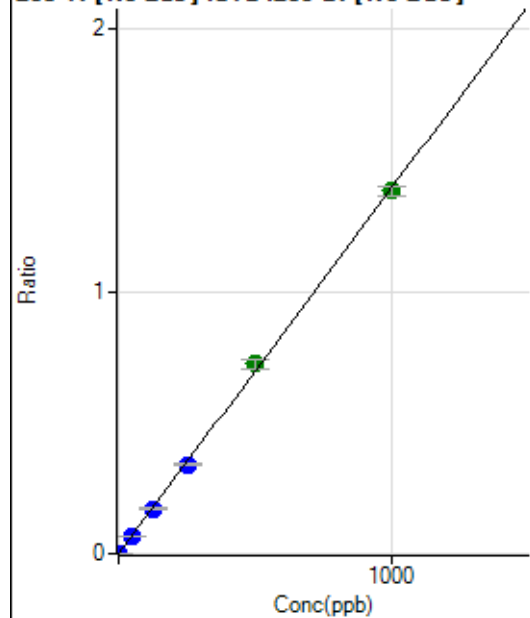
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			21.11		P	32.9
2	☐			22.22		P	96.4
3	☐			10.00		P	33.3
4	☐			25.55		P	41.9
5	☐			37.78		P	13.5
6	☐			48.89		P	55.1
7	☐			55.56		P	25.0
8	☐			217.78		P	13.4

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			607.80		P	6.4
2	☐			614.46		P	4.6
3	☐			1951.27		P	3.2
4	☐			3973.97		P	0.2
5	☐			7228.72		P	0.4
6	☐			14007.54		P	1.9
7	☐			27422.99		P	0.5
8	☐			760.03		P	11.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6291.56		P	2.3
2	☐			6361.59		P	2.8
3	☐			6613.94		P	5.2
4	☐			7552.22		P	1.1
5	☐			8918.65		P	2.7
6	☐			11115.87		P	1.4
7	☐			15835.15		P	1.2
8	☐			5729.08		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	435.57	0.0001	P	3.3
2	☐	1.000	0.960	6633.98	0.0014	P	6.3
3	☐	50.000	47.446	318393.82	0.0662	P	0.9
4	☐	125.000	122.372	794277.90	0.1707	P	4.7
5	☐	250.000	243.374	1579996.02	0.3394	P	3.1
6	☐	500.000	518.968	3314970.19	0.7237	A	4.5
7	☐	1000.000	992.629	6370774.35	1.3842	A	2.4
8	☐			2305.84	0.0006	P	11.8

$$y = 0.0014 * x + 9.1610E-005$$

$$R = 0.9997$$

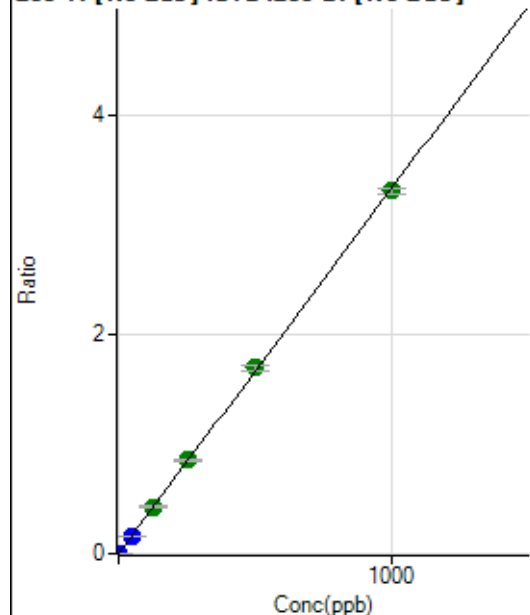
$$DL = 0.006491$$

$$BEC = 0.0657$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1035.61	0.0002	P	6.6
2	☐	1.000	0.937	15455.98	0.0033	P	5.1
3	☐	50.000	48.064	768852.21	0.1600	P	0.8
4	☐	125.000	128.329	1985626.62	0.4268	A	4.6
5	☐	250.000	256.432	3969006.85	0.8526	A	2.2
6	☐	500.000	509.023	7752663.49	1.6922	A	3.2
7	☐	1000.000	993.561	15202054.22	3.3027	A	1.7
8	☐			5427.87	0.0014	P	8.0

$$y = 0.0033 * x + 2.1780E-004$$

$$R = 0.9999$$

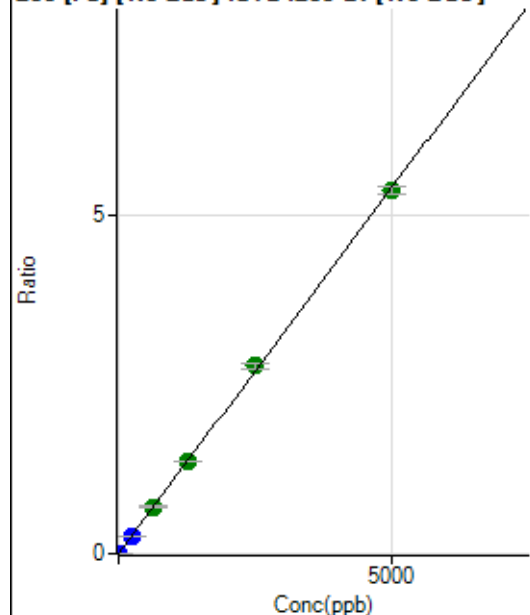
$$DL = 0.01302$$

$$BEC = 0.06552$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	907.82	0.0002	P	4.8
2	☐	1.000	0.925	5530.13	0.0012	P	4.1
3	☐	250.000	238.588	1241135.87	0.2583	P	1.1
4	☐	625.000	641.465	3228920.99	0.6940	A	4.6
5	☐	1250.000	1261.352	6354002.75	1.3645	A	1.9
6	☐	2500.000	2567.016	12722169.81	2.7767	A	2.9
7	☐	5000.000	4962.167	24703693.52	5.3674	A	2.0
8	☐			6680.68	0.0017	P	7.7

$$y = 0.0011 * x + 1.9093E-004$$

$$R = 0.9999$$

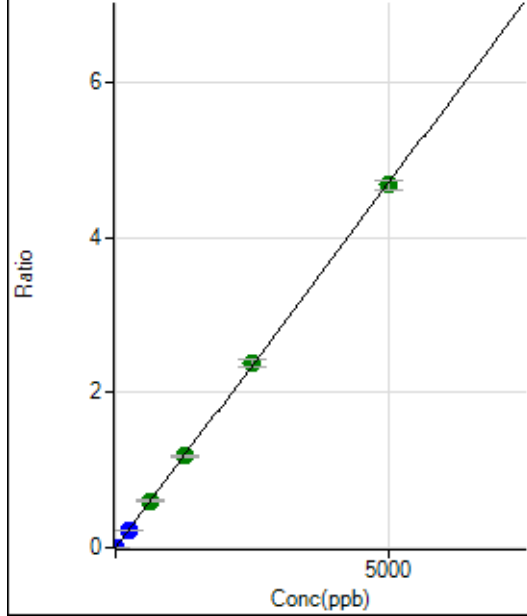
$$DL = 0.02543$$

$$BEC = 0.1765$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	793.37	0.0002	P	6.4
2	☐	1.000	0.958	4965.46	0.0011	P	2.5
3	☐	250.000	236.754	1072143.96	0.2231	P	1.5
4	☐	625.000	645.179	2828393.29	0.6077	A	3.3
5	☐	1250.000	1261.978	5533022.07	1.1885	A	1.9
6	☐	2500.000	2538.822	10951688.03	2.3908	A	4.0
7	☐	5000.000	4975.734	21562946.34	4.6854	A	3.0
8	☐			5845.83	0.0015	P	9.2

$$y = 9.4162\text{E-}004 * x + 1.6687\text{E-}004$$

$$R = 0.9999$$

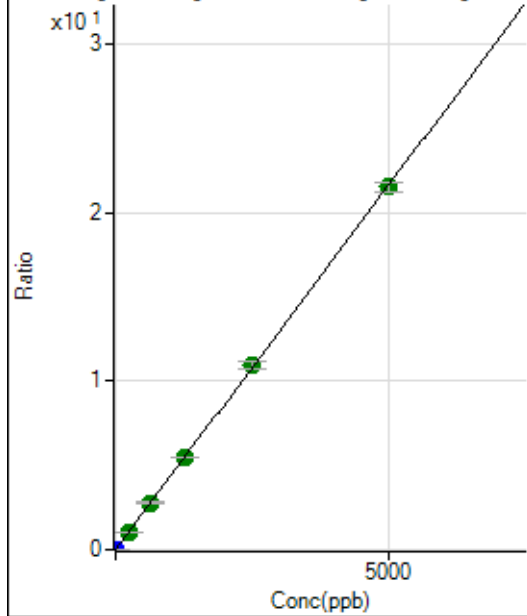
$$DL = 0.03405$$

$$BEC = 0.1772$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3533.56	0.0007	P	3.6
2	☐	1.000	0.923	21967.46	0.0047	P	3.4
3	☐	250.000	246.164	5113349.48	1.0639	A	0.4
4	☐	625.000	637.863	12822341.82	2.7556	A	4.2
5	☐	1250.000	1266.530	25470571.29	5.4708	A	1.8
6	☐	2500.000	2531.261	50085153.56	10.9331	A	3.7
7	☐	5000.000	4978.821	98964475.19	21.5040	A	3.0
8	☐			26388.50	0.0067	P	7.1

$$y = 0.0043 * x + 7.4312\text{E-}004$$

$$R = 1.0000$$

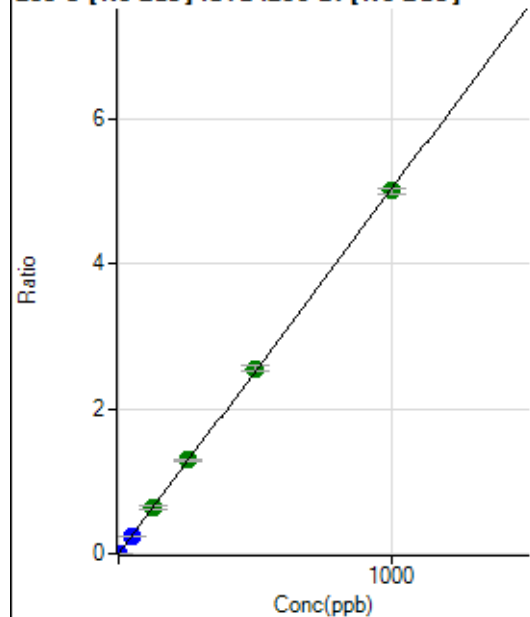
$$DL = 0.01852$$

$$BEC = 0.1721$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	98.89	0.0000	P	15.8
2	☐	1.000	0.888	20860.62	0.0045	P	4.5
3	☐	50.000	46.658	1129440.74	0.2350	P	1.0
4	☐	125.000	126.599	2966671.52	0.6376	A	4.5
5	☐	250.000	256.133	6004459.91	1.2900	A	3.1
6	☐	500.000	507.189	11703988.44	2.5544	A	3.0
7	☐	1000.000	994.840	23060681.04	5.0104	A	1.9
8	☐			4543.10	0.0012	P	12.2

$$y = 0.0050 * x + 2.0796E-005$$

$$R = 0.9999$$

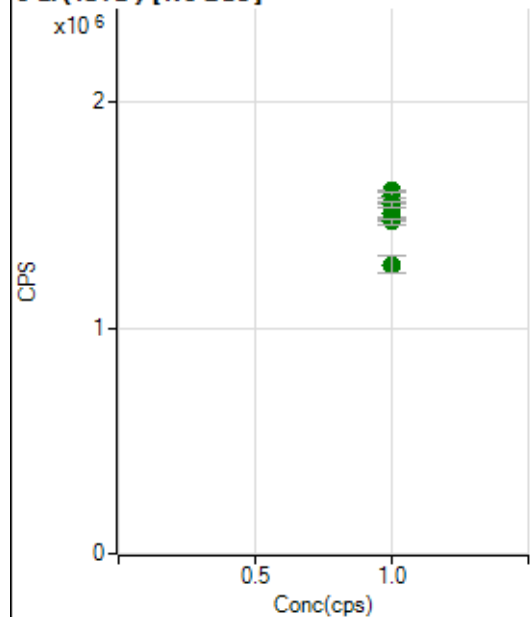
$$DL = 0.001962$$

$$BEC = 0.004129$$

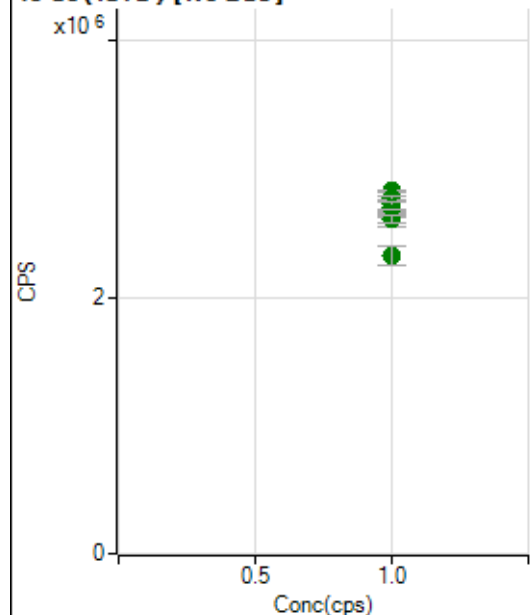
Weight: <None>

Min Conc: 0

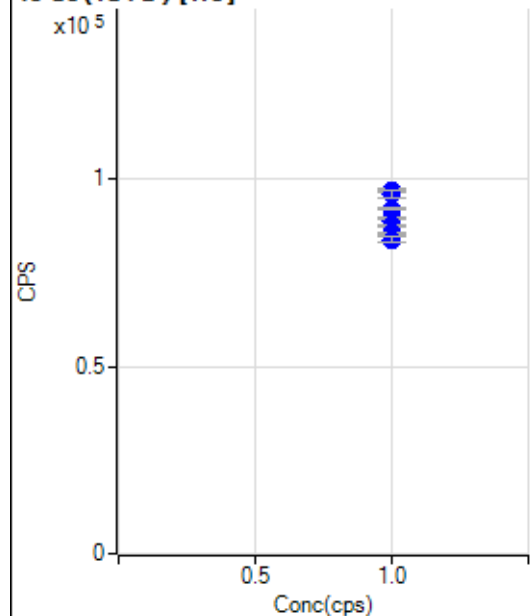
6 Li (ISTD) [No Gas]



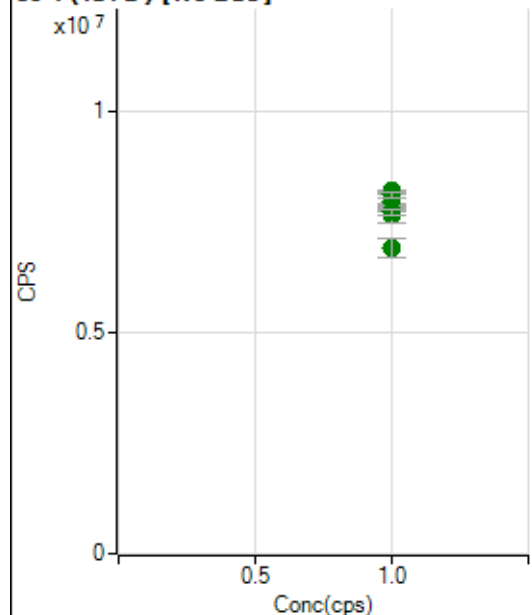
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1605893.00		A	0.8
2	☐	1.000		1572933.49		A	4.7
3	☐	1.000		1586636.33		A	1.2
4	☐	1.000		1510214.78		A	4.9
5	☐	1.000		1546071.05		A	1.7
6	☐	1.000		1474021.09		A	2.6
7	☐	1.000		1469076.25		A	1.3
8	☐	1.000		1279299.97		A	6.0

45 Sc (ISTD) [No Gas]

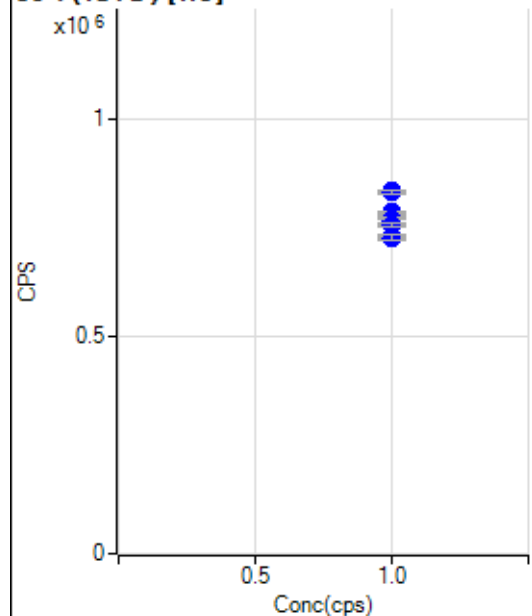
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2829645.65		A	0.6
2	☐	1.000		2730496.37		A	4.5
3	☐	1.000		2773151.28		A	1.4
4	☐	1.000		2705681.71		A	3.4
5	☐	1.000		2660068.87		A	2.2
6	☐	1.000		2605244.63		A	3.8
7	☐	1.000		2607130.00		A	2.6
8	☐	1.000		2329570.19		A	6.5

45 Sc (ISTD) [He]

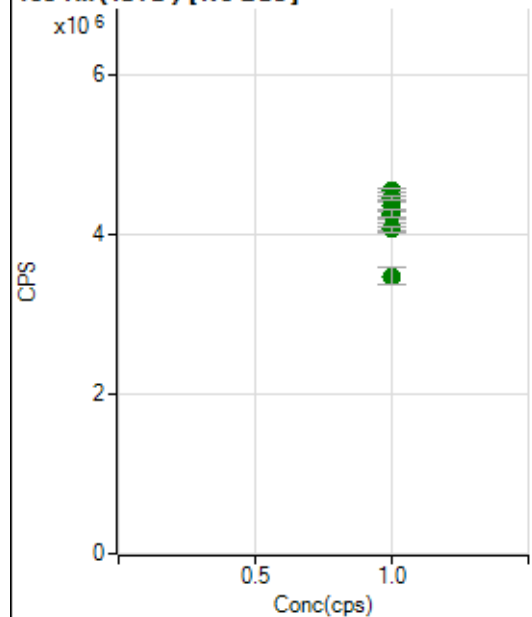
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		96808.11		P	1.0
2	☐	1.000		96092.19		P	1.9
3	☐	1.000		88734.52		P	2.1
4	☐	1.000		92071.38		P	0.8
5	☐	1.000		89513.56		P	0.5
6	☐	1.000		87543.52		P	0.9
7	☐	1.000		85464.74		P	0.4
8	☐	1.000		83828.37		P	1.4

89 Y (ISTD) [No Gas]

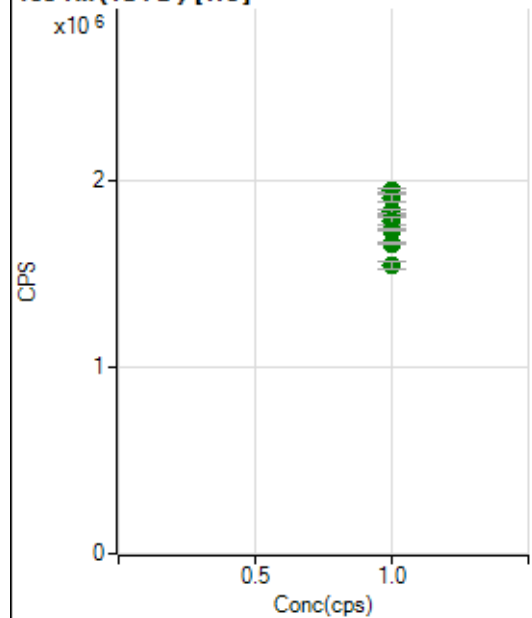
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8196545.99		A	0.7
2	☐	1.000		7969774.40		A	4.0
3	☐	1.000		8106005.02		A	1.2
4	☐	1.000		7824333.63		A	2.0
5	☐	1.000		7806153.98		A	1.5
6	☐	1.000		7641799.12		A	4.7
7	☐	1.000		7712460.86		A	2.0
8	☐	1.000		6918015.17		A	6.1

89 Y (ISTD) [He]

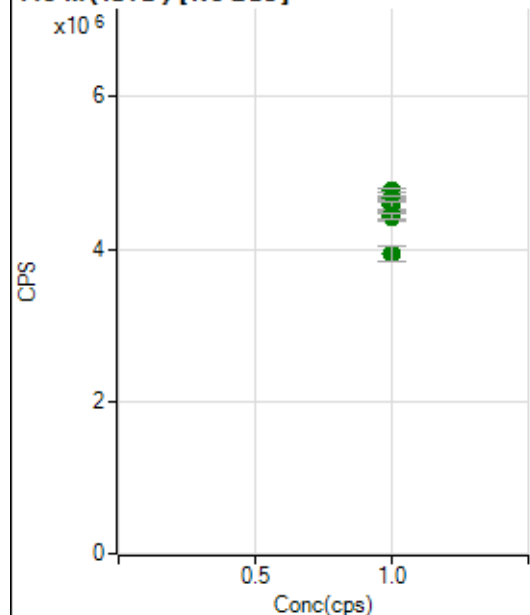
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		834244.28		P	0.5
2	☐	1.000		831710.25		P	1.3
3	☐	1.000		765624.40		P	2.8
4	☐	1.000		786287.47		P	0.5
5	☐	1.000		770144.96		P	0.4
6	☐	1.000		755802.25		P	0.8
7	☐	1.000		727667.84		P	0.9
8	☐	1.000		726873.39		P	1.4

103 Rh (ISTD) [No Gas]

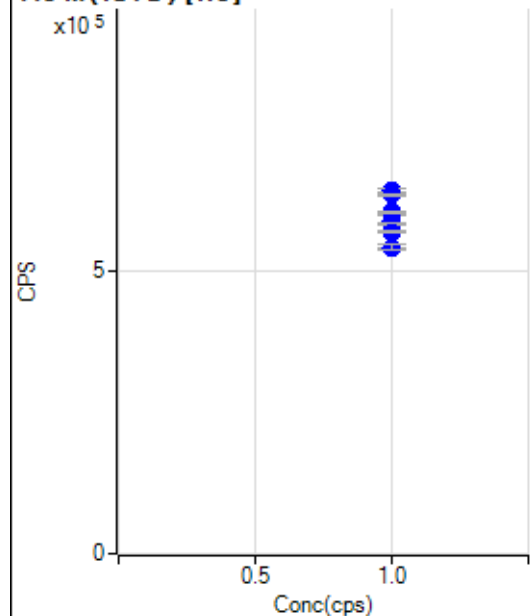
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4540568.44		A	0.9
2	☐	1.000		4351802.95		A	2.8
3	☐	1.000		4451419.69		A	0.6
4	☐	1.000		4245257.71		A	2.7
5	☐	1.000		4262283.38		A	2.6
6	☐	1.000		4090155.43		A	2.7
7	☐	1.000		4059649.42		A	1.8
8	☐	1.000		3468425.47		A	6.4

103 Rh (ISTD) [He]

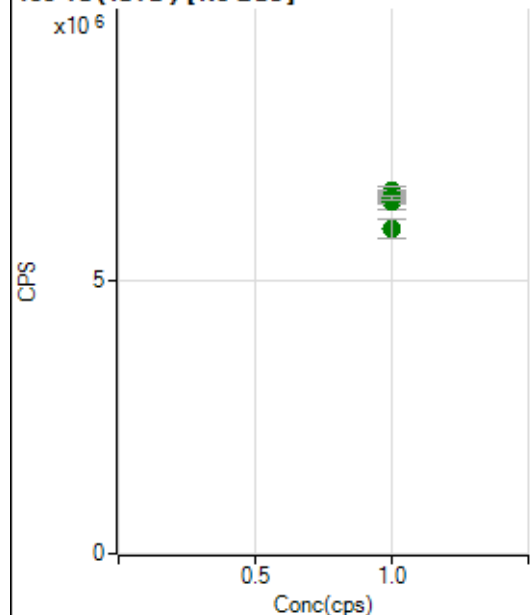
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1949581.43		A	1.0
2	☐	1.000		1911998.44		A	2.3
3	☐	1.000		1791919.64		A	2.4
4	☐	1.000		1837068.29		A	1.0
5	☐	1.000		1788257.15		A	2.4
6	☐	1.000		1737100.20		A	0.6
7	☐	1.000		1667779.35		A	1.0
8	☐	1.000		1549214.65		A	2.2

115 In (ISTD) [No Gas]

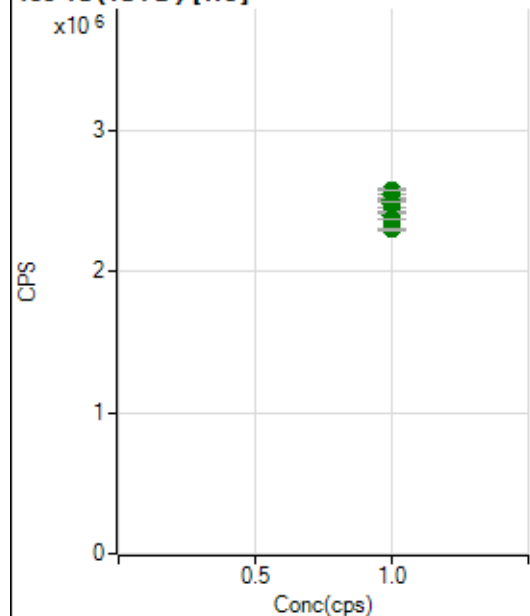
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4763092.93		A	1.2
2	☐	1.000		4594514.77		A	3.6
3	☐	1.000		4664791.05		A	1.5
4	☐	1.000		4563654.00		A	3.1
5	☐	1.000		4574031.95		A	2.0
6	☐	1.000		4412290.78		A	2.5
7	☐	1.000		4435029.32		A	2.0
8	☐	1.000		3947417.51		A	5.1

115 In (ISTD) [He]

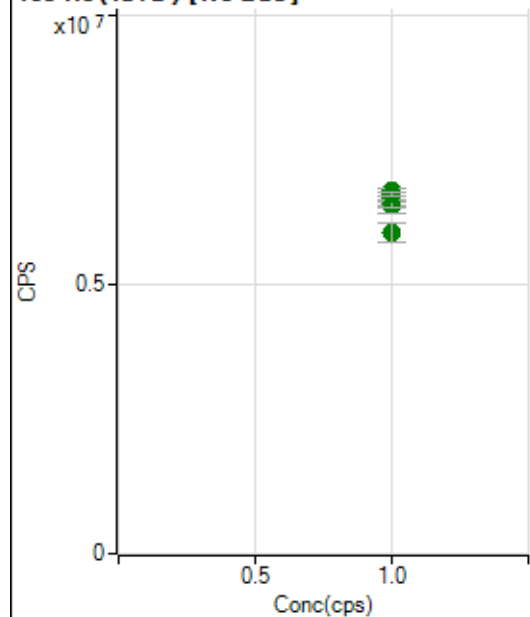
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		642957.14		P	0.9
2	☐	1.000		636904.09		P	0.6
3	☐	1.000		590429.07		P	2.7
4	☐	1.000		605528.92		P	0.2
5	☐	1.000		585759.67		P	0.7
6	☐	1.000		570644.45		P	0.4
7	☐	1.000		542463.13		P	0.3
8	☐	1.000		543286.21		P	1.4

159 Tb (ISTD) [No Gas]

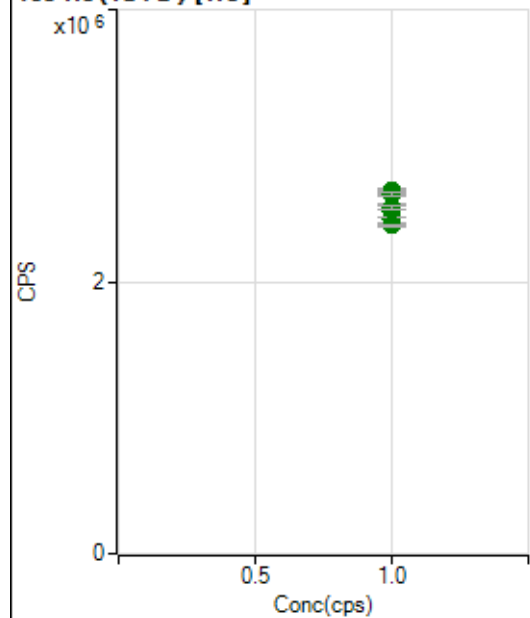
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6659148.44		A	2.0
2	☐	1.000		6477025.81		A	5.3
3	☐	1.000		6557794.00		A	1.3
4	☐	1.000		6550819.07		A	2.6
5	☐	1.000		6581148.65		A	2.3
6	☐	1.000		6476330.81		A	1.3
7	☐	1.000		6538676.29		A	1.3
8	☐	1.000		5955729.63		A	5.7

159 Tb (ISTD) [He]

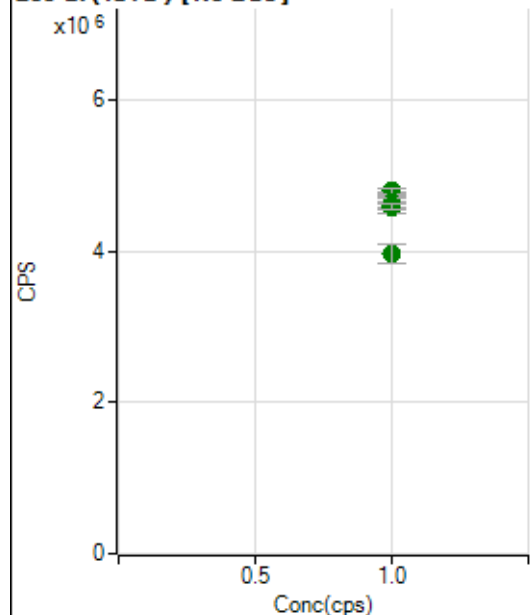
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2567350.69		A	1.6
2	☐	1.000		2538910.40		A	2.4
3	☐	1.000		2394972.93		A	2.6
4	☐	1.000		2507352.57		A	1.0
5	☐	1.000		2471384.63		A	1.6
6	☐	1.000		2415825.89		A	0.7
7	☐	1.000		2369452.20		A	0.3
8	☐	1.000		2297748.63		A	0.7

165 Ho (ISTD) [No Gas]

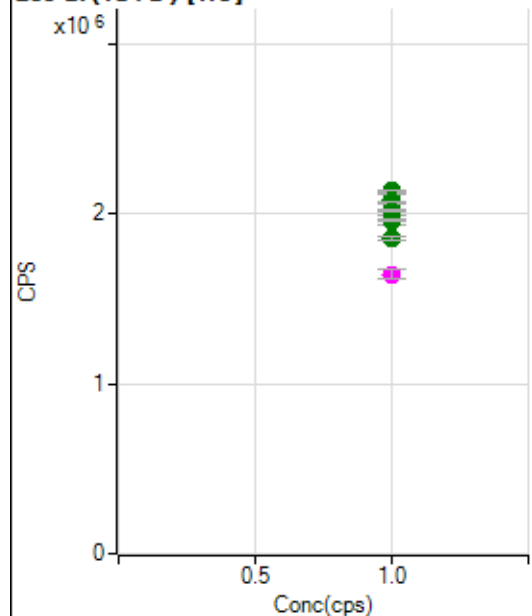
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6746383.44		A	1.2
2	☐	1.000		6484660.67		A	5.2
3	☐	1.000		6625583.44		A	1.0
4	☐	1.000		6525849.63		A	2.0
5	☐	1.000		6644604.69		A	2.7
6	☐	1.000		6509344.62		A	2.5
7	☐	1.000		6684061.22		A	1.1
8	☐	1.000		5975007.83		A	6.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2668439.37		A	1.9
2	☐	1.000		2667852.39		A	0.3
3	☐	1.000		2514914.76		A	3.2
4	☐	1.000		2639229.60		A	1.0
5	☐	1.000		2551920.45		A	1.8
6	☐	1.000		2542807.76		A	1.4
7	☐	1.000		2459931.86		A	1.7
8	☐	1.000		2414048.35		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4754799.86		A	0.2
2	☐	1.000		4648815.87		A	6.0
3	☐	1.000		4806319.41		A	1.4
4	☐	1.000		4659135.49		A	4.7
5	☐	1.000		4657265.66		A	2.8
6	☐	1.000		4584286.11		A	2.9
7	☐	1.000		4603439.83		A	1.5
8	☐	1.000		3962793.55		A	6.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2136329.34		A	0.9
2	☐	1.000		2087579.31		A	2.7
3	☐	1.000		1963956.45		A	3.3
4	☐	1.000		2069960.89		A	0.5
5	☐	1.000		2018582.85		A	0.8
6	☐	1.000		1960397.23		A	0.7
7	☐	1.000		1857406.03		A	1.8
8	☐	1.000		1647055.70		M	3.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8021524MS.b

Acq. Date-Time 2024-02-15 12:32:59

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		6203	62031.91			0.593	5.000
24		58249	582485.76			0.306	5.000
25		7621	76211.84			0.778	5.000
26		9180	91795.80			0.895	5.000
59		45288	452882.61			0.927	5.000
113		5903	59027.47			1.046	5.000
115		79201	792012.49			2.682	5.000
206		20815	208146.08			0.980	5.000
207		19088	190882.39			0.959	5.000
208		45407	454073.94			1.025	5.000
220		0	1.80			57.601	

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

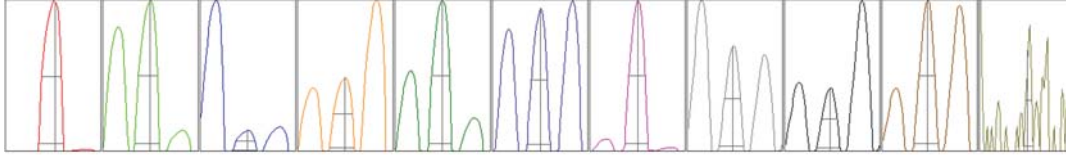
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6251	6195	6160	6180	6229
24	58209	57963	58405	58283	58382
25	7652	7574	7555	7623	7702
26	9195	9055	9146	9250	9252
59	44974	44744	45428	45522	45774
113	5884	5969	5960	5880	5821
115	78919	81437	80803	78853	75995
206	20520	20756	21082	20832	20882
207	18894	19026	19388	19093	19040
208	44746	45099	45778	45617	45797

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	10643.65	9.10	8.90 - 9.10	
24	102856.29	24.00	23.90 - 24.10	
25	13847.08	25.00	24.90 - 25.10	
26	16099.72	26.00	25.90 - 26.10	
59	84491.93	59.00	58.90 - 59.10	
113	12365.89	113.05	112.90 - 113.10	
115	161897.11	115.05	114.90 - 115.10	
206	42362.92	205.95	205.90 - 206.10	
207	39035.72	206.95	206.90 - 207.10	
208	92997.47	207.95	207.90 - 208.10	
220	0.40	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.783	0.900	
24	0.60	0.784	0.900	
25	0.59	0.743	0.900	
26	0.60	0.783	0.900	
59	0.56	0.735	0.900	
113	0.49	0.727	0.900	
115	0.51	0.730	0.900	
206	0.50	0.774	0.900	
207	0.49	0.735	0.900	
208	0.49	0.774	0.900	
220	0.22	0.292		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	10.6 V	Deflect	15.0 V
Extract 2	-220.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	180 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.7 mm
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EM

Discriminator	4.6 mV	Analog HV	2318 V	Pulse HV	1709 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		10407	104068.82			3.413	
89		8113	81132.55			2.029	
205		13477	134774.12			2.558	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9784	10449	10558	10605	10638
89	7842	8279	8194	8142	8109
205	12950	13569	13380	13608	13880

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	10.6 V	Deflect	3.6 V
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US EPA Tune Check Report

Extract 2	-220.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.7 mm
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EM

Discriminator	4.6 mV	Analog HV	2318 V	Pulse HV	1709 V
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