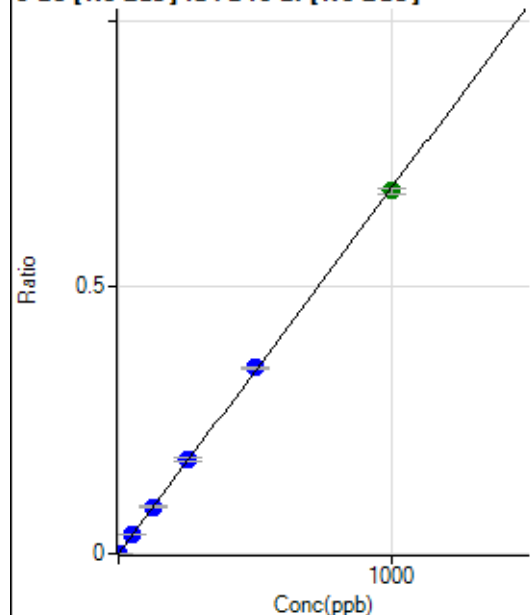


Calibration for 004CALB.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020524 MS.b\
 Analysis File: P8020524 MS.batch.bin
 DA Date-Time: 2024-02-05 14:52:34
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-05 13:16:05
2	005CALS.d	S02	2024-02-05 13:19:30
3	006CALS.d	S03	2024-02-05 13:22:56
4	007CALS.d	S04	2024-02-05 13:26:11
5	008CALS.d	S05	2024-02-05 13:29:19
6	009CALS.d	S06	2024-02-05 13:32:21
7	010CALS.d	S07	2024-02-05 13:35:25
8	011CALS.d	S08	2024-02-05 13:38:26

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	37.08	0.0000	P	36.6
2	☐	1.000	1.035	1706.56	0.0007	P	3.0
3	☐	50.000	52.579	82658.63	0.0361	P	1.2
4	☐	125.000	128.546	192588.15	0.0882	P	1.5
5	☐	250.000	258.091	359738.04	0.1771	P	4.0
6	☐	500.000	509.719	682662.96	0.3497	P	0.8
7	☐	1000.000	992.545	1316104.41	0.6809	A	1.6
8	☐			284.97	0.0002	P	40.0

$$y = 6.8604\text{E-}004 * x + 1.5706\text{E-}005$$

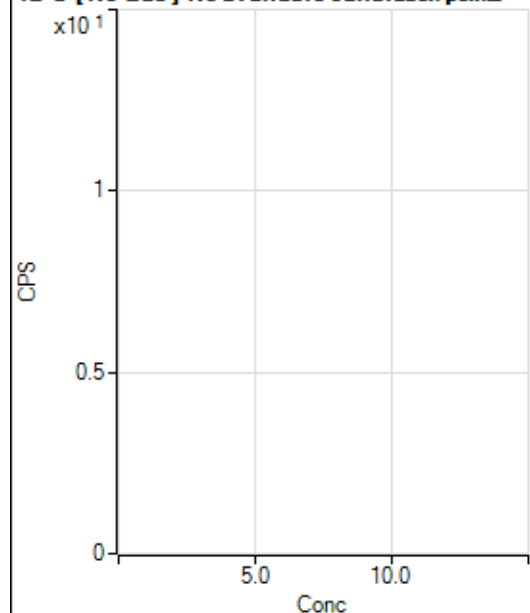
$$R = 0.9999$$

$$DL = 0.02513$$

$$BEC = 0.02289$$

Weight: <None>

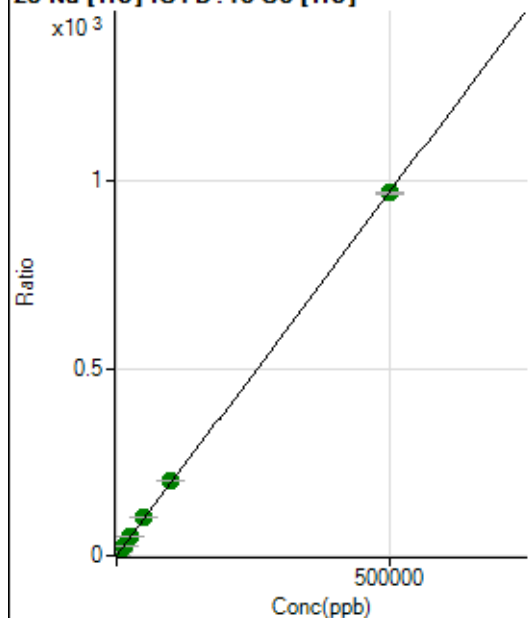
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			1755578.50		A	1.1
2	☐			1746195.79		A	0.2
3	☐			1812681.38		A	1.0
4	☐			1771967.96		A	0.8
5	☐			1757067.93		A	1.1
6	☐			1891363.39		A	2.7
7	☐			2238292.10		A	3.4
8	☐			2367664.90		A	7.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23390.90		P	0.4
2	☐			23461.00		P	0.8
3	☐			24250.10		P	1.4
4	☐			23907.36		P	1.8
5	☐			23379.81		P	1.2
6	☐			26808.96		P	1.4
7	☐			32271.01		P	0.7
8	☐			41344.67		P	1.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7225.19	0.0527	P	3.2
2	☐	500.000	504.588	141142.12	1.0308	P	0.2
3	☐	5000.000	5197.618	1340866.47	10.1282	A	0.7
4	☐	12500.000	13085.517	3113820.48	25.4186	A	2.1
5	☐	25000.000	26350.636	5881316.79	51.1327	A	1.4
6	☐	50000.000	52409.287	11528470.24	101.6467	A	1.2
7	☐	100000.00	102720.19	22690068.83	199.1730	A	1.2
8	☐	500000.00	499130.88	120048892.6	967.6045	A	0.4

$$y = 0.0019 * x + 0.0527$$

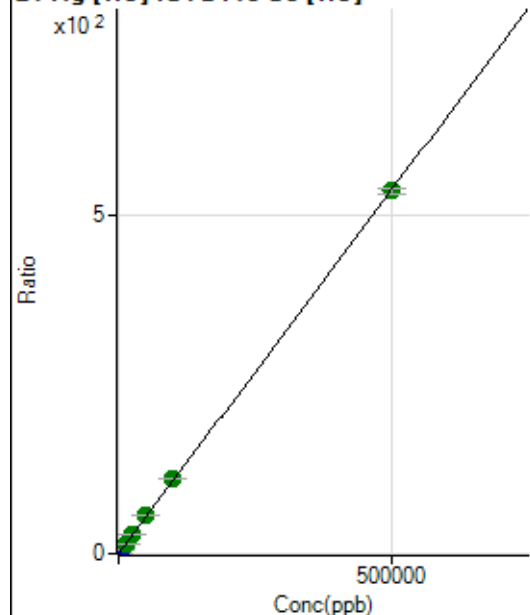
$$R = 1.0000$$

$$DL = 2.595$$

$$BEC = 27.2$$

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	117.78	0.0009	P	8.4
2	☐	500.000	526.589	77681.16	0.5674	P	1.5
3	☐	5000.000	5341.916	761035.88	5.7483	P	0.5
4	☐	12500.000	13320.741	1755850.41	14.3328	A	2.6
5	☐	25000.000	26884.790	3327242.24	28.9265	A	1.2
6	☐	50000.000	53094.167	6479754.14	57.1255	A	0.6
7	☐	100000.00	103256.90	12656284.12	111.0962	A	0.6
8	☐	500000.00	498920.99	66586866.79	536.7960	A	1.6

$$y = 0.0011 * x + 8.6003E-004$$

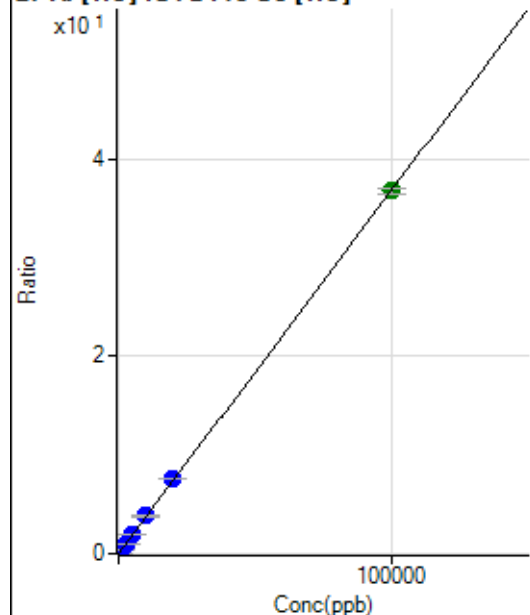
$$R = 1.0000$$

$$DL = 0.2006$$

$$BEC = 0.7994$$

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	53.33	0.0004	P	17.6
2	☐	20.000	20.827	1102.28	0.0081	P	6.1
3	☐	1000.000	1070.301	52204.42	0.3943	P	0.6
4	☐	2500.000	2595.408	117070.88	0.9556	P	1.4
5	☐	5000.000	5282.189	223631.44	1.9444	P	2.3
6	☐	10000.000	10366.904	432771.04	3.8158	P	1.3
7	☐	20000.000	20404.141	855547.21	7.5099	P	0.1
8	☐	100000.00	99865.284	4559539.90	36.7544	A	1.6

$$y = 3.6804E-004 * x + 3.8861E-004$$

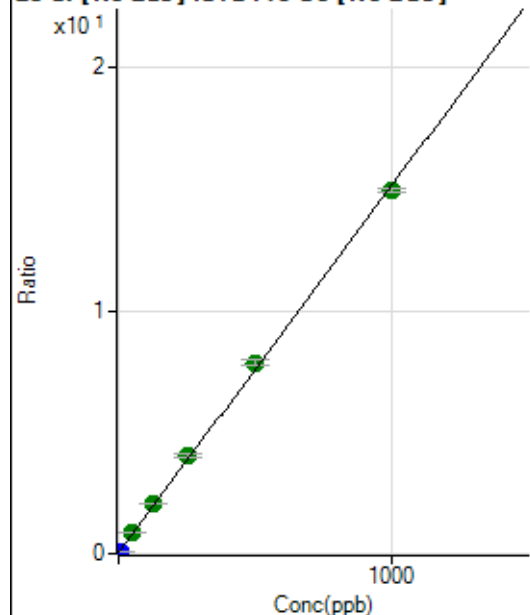
$$R = 1.0000$$

$$DL = 0.5578$$

$$BEC = 1.056$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	162145.07	0.0401	P	0.9
2	☐	10.000	0.360	185546.33	0.0455	P	1.1
3	☐	50.000	53.388	3421434.71	0.8468	A	3.3
4	☐	125.000	133.382	7823950.23	2.0556	A	1.4
5	☐	250.000	264.659	14409077.01	4.0393	A	2.0
6	☐	500.000	518.184	27276157.65	7.8703	A	2.3
7	☐	1000.000	986.122	51827184.23	14.9413	A	1.1
8	☐			1580530.30	0.4735	A	8.7

$$y = 0.0151 * x + 0.0401$$

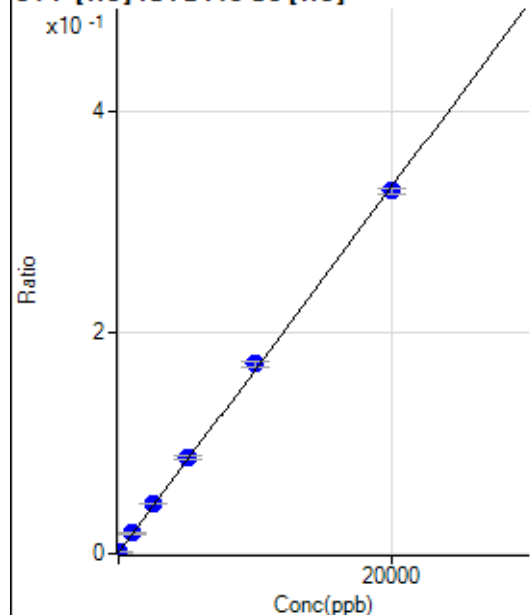
$$R = 0.9995$$

$$DL = 0.06996$$

$$BEC = 2.651$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-13.964	94.44	0.0007	P	14.1
2	☐	0.000	13.964	157.78	0.0012	P	6.9
3	☐	1000.000	1060.550	2444.68	0.0185	P	2.2
4	☐	2500.000	2648.171	5482.20	0.0447	P	1.1
5	☐	5000.000	5187.328	9976.85	0.0867	P	3.2
6	☐	10000.000	10301.358	19433.10	0.1714	P	2.5
7	☐	20000.000	19780.940	37388.20	0.3282	P	1.6
8	☐			150.00	0.0012	P	9.7

$$y = 1.6545E-005 * x + 9.2075E-004$$

$$R = 0.9998$$

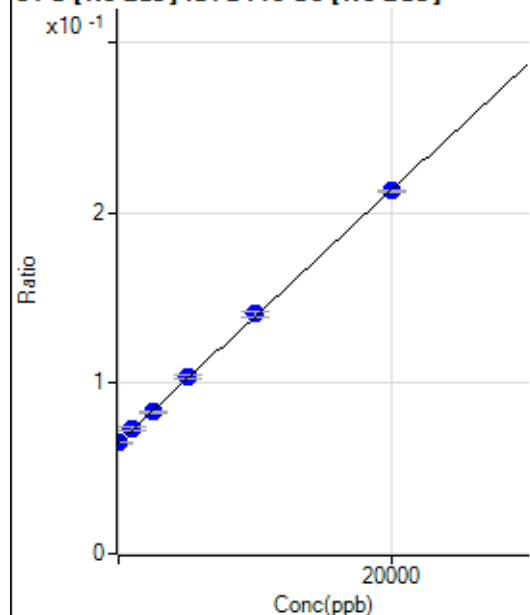
$$DL = 16.01$$

$$BEC = 55.65$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-1.725	264270.60	0.0653	P	1.3
2	☐	0.000	1.725	266404.25	0.0653	P	0.4
3	☐	1000.000	1074.778	296093.22	0.0733	P	3.1
4	☐	2500.000	2415.739	316724.15	0.0832	P	1.0
5	☐	5000.000	5127.538	368571.66	0.1033	P	2.3
6	☐	10000.000	10140.592	486899.09	0.1405	P	2.8
7	☐	20000.000	19904.613	738494.68	0.2129	P	0.7
8	☐			225244.43	0.0675	P	3.4

$$y = 7.4148\text{E-}006 * x + 0.0653$$

R = 0.9999

DL = 218.8

BEC = 8808

Weight: <None>

Min Conc: 0

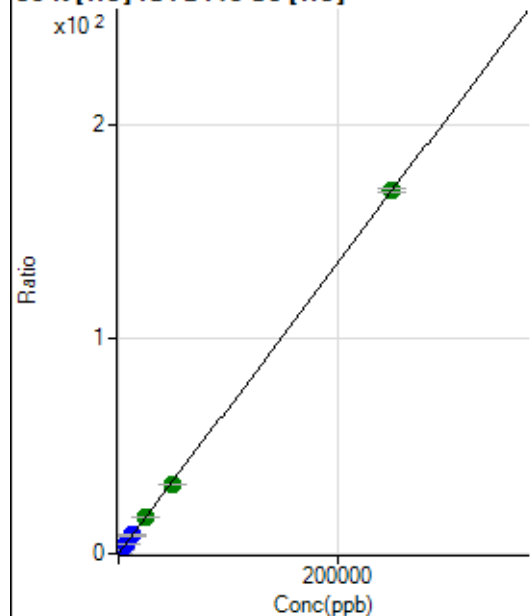
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			68320.10		P	1.3
2	☐			66017.27		P	0.6
3	☐			108492.70		P	1.3
4	☐			141080.98		P	2.2
5	☐			194287.81		P	2.8
6	☐			331147.61		P	3.0
7	☐			665025.01		P	4.2
8	☐			228764.63		P	4.2

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			555.57		P	4.4
2	☐			484.46		P	4.6
3	☐			767.80		P	7.5
4	☐			1048.94		P	5.0
5	☐			1406.75		P	3.9
6	☐			2475.79		P	3.3
7	☐			5092.05		P	1.4
8	☐			1905.70		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5899.05	0.0430	P	2.4
2	☐	500.000	495.246	51696.65	0.3776	P	1.2
3	☐	2500.000	2525.727	231588.96	1.7493	P	0.4
4	☐	6250.000	6273.044	524429.56	4.2807	P	1.7
5	☐	12500.000	12616.943	985302.26	8.5663	P	1.4
6	☐	25000.000	25384.153	1949562.23	17.1911	A	3.1
7	☐	50000.000	48189.822	3713595.95	32.5973	A	0.3
8	☐	250000.00	250316.94	20982462.88	169.1427	A	1.1

$$y = 6.7554\text{E-}004 * x + 0.0430$$

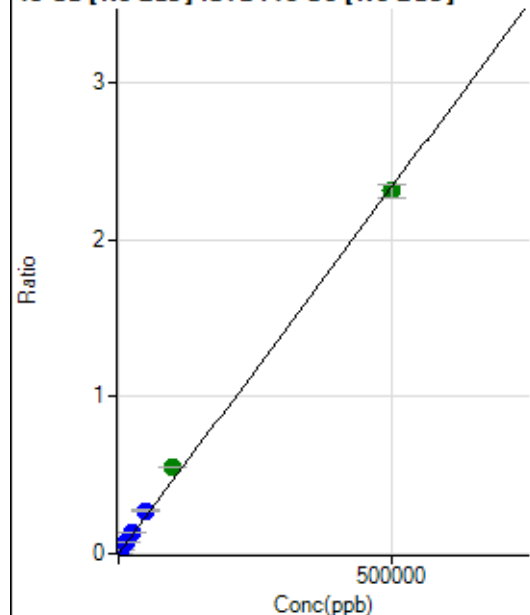
$$R = 1.0000$$

$$DL = 4.506$$

$$BEC = 63.71$$

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	132.23	0.0000	P	14.7
2	☐	500.000	511.904	9865.68	0.0024	P	2.6
3	☐	5000.000	5950.612	112241.61	0.0278	P	2.4
4	☐	12500.000	14721.728	261342.75	0.0687	P	0.5
5	☐	25000.000	29526.282	491154.97	0.1377	P	2.0
6	☐	50000.000	58795.848	950196.17	0.2741	P	1.8
7	☐	100000.00	118873.54	1922610.44	0.5542	A	0.5
8	☐	500000.00	495054.33	7699396.90	2.3081	A	3.8

$$y = 4.6622\text{E-}006 * x + 3.2692\text{E-}005$$

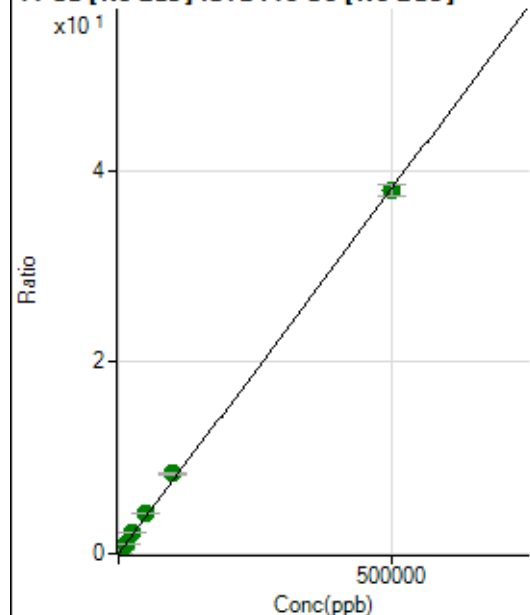
$$R = 0.9992$$

$$DL = 3.082$$

$$BEC = 7.012$$

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	19901.69	0.0049	P	2.0
2	☐	500.000	497.346	174685.94	0.0428	P	0.9
3	☐	5000.000	5701.934	1776744.33	0.4396	A	1.8
4	☐	12500.000	14065.519	4100425.07	1.0773	A	0.8
5	☐	25000.000	28117.552	7663321.20	2.1486	A	2.5
6	☐	50000.000	55547.317	14694112.98	4.2398	A	2.2
7	☐	100000.00	109617.44	29005394.85	8.3620	A	0.9
8	☐	500000.00	497319.74	126510160.3	37.9199	A	3.1

$$y = 7.6239\text{E-}005 * x + 0.0049$$

$$R = 0.9998$$

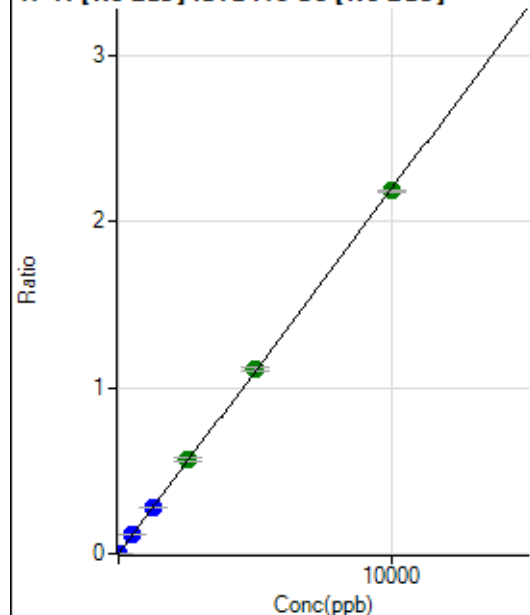
$$DL = 3.938$$

$$BEC = 64.5$$

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	83.33	0.0000	P	20.8
2	☐	5.000	5.000	4559.64	0.0011	P	1.8
3	☐	500.000	513.291	455402.99	0.1127	P	1.8
4	☐	1250.000	1281.641	1070671.46	0.2813	P	0.8
5	☐	2500.000	2589.261	2026992.94	0.5683	A	2.8
6	☐	5000.000	5050.941	3842524.88	1.1087	A	2.3
7	☐	10000.000	9947.595	7573751.48	2.1834	A	0.8
8	☐			1915.75	0.0006	P	47.7

$$y = 2.1949\text{E-}004 * x + 2.0574\text{E-}005$$

$$R = 0.9999$$

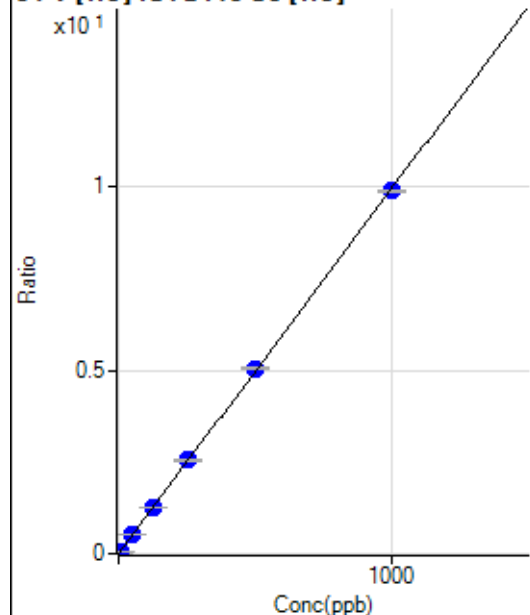
$$DL = 0.0584$$

$$BEC = 0.09373$$

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	7.78	0.0001	P	23.7
2	☐	5.000	5.218	7106.26	0.0519	P	0.6
3	☐	50.000	50.853	66903.20	0.5054	P	1.3
4	☐	125.000	127.087	154723.21	1.2629	P	1.3
5	☐	250.000	256.823	293528.41	2.5520	P	1.6
6	☐	500.000	506.965	571353.01	5.0376	P	1.1
7	☐	1000.000	994.507	1125797.70	9.8821	P	0.5
8	☐			431.12	0.0035	P	20.8

$$y = 0.0099 * x + 5.6692\text{E-}005$$

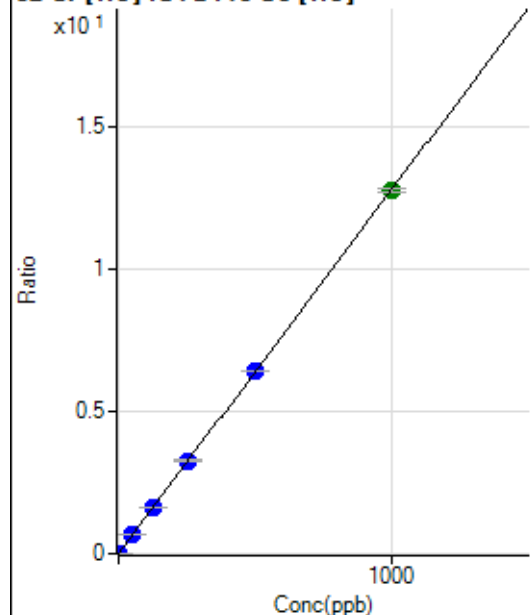
$$R = 0.9999$$

$$DL = 0.004061$$

$$BEC = 0.005705$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	771.14	0.0056	P	9.0
2	☐	2.000	1.992	4259.57	0.0311	P	2.8
3	☐	50.000	50.766	86740.01	0.6552	P	1.1
4	☐	125.000	126.202	198525.78	1.6203	P	0.9
5	☐	250.000	255.131	376082.09	3.2700	P	2.3
6	☐	500.000	502.875	730421.26	6.4398	P	0.5
7	☐	1000.000	997.091	1454013.83	12.7631	A	1.1
8	☐			9994.69	0.0806	P	5.1

$$y = 0.0128 * x + 0.0056$$

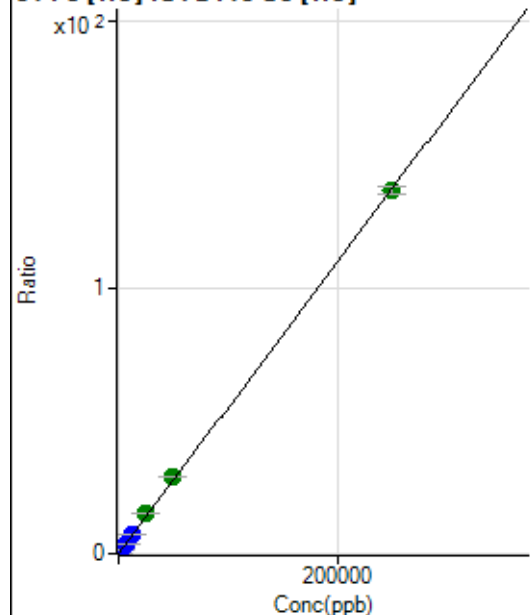
$$R = 1.0000$$

$$DL = 0.1183$$

$$BEC = 0.4395$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	273.34	0.0020	P	11.6
2	☐	50.000	53.842	4309.58	0.0315	P	1.7
3	☐	2500.000	2711.442	196847.71	1.4868	P	0.6
4	☐	6250.000	6797.188	456249.34	3.7241	P	1.5
5	☐	12500.000	13741.585	865745.65	7.5269	P	1.5
6	☐	25000.000	27508.676	1708888.97	15.0658	A	0.3
7	☐	50000.000	52870.773	3298554.67	28.9541	A	0.8
8	☐	250000.00	249097.10	16918855.58	136.4080	A	2.3

$$y = 5.4760E-004 * x + 0.0020$$

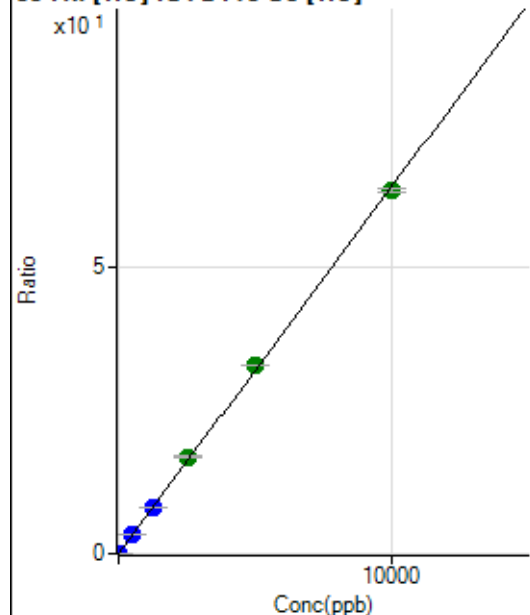
$$R = 0.9999$$

$$DL = 1.269$$

$$BEC = 3.645$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.33	0.0004	P	34.4
2	☐	1.000	0.959	892.26	0.0065	P	10.0
3	☐	500.000	507.005	429231.47	3.2420	P	0.9
4	☐	1250.000	1269.755	994633.98	8.1187	P	1.4
5	☐	2500.000	2640.098	1941603.67	16.8801	A	1.5
6	☐	5000.000	5139.881	3727322.20	32.8628	A	0.9
7	☐	10000.000	9892.215	7205429.47	63.2473	A	1.0
8	☐			5971.32	0.0482	P	7.4

$$y = 0.0064 * x + 3.9026E-004$$

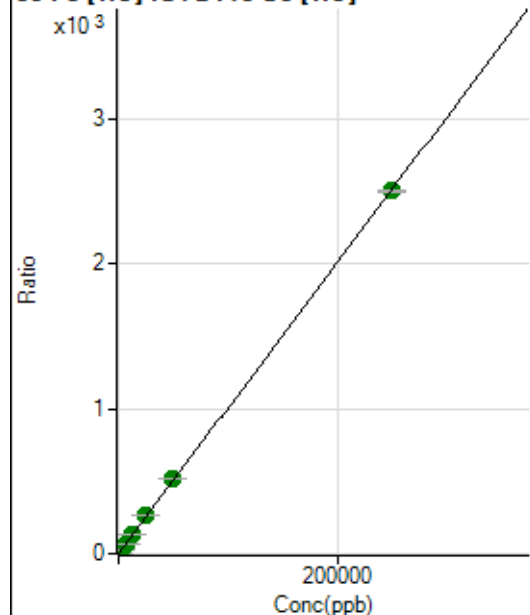
$$R = 0.9997$$

$$DL = 0.06295$$

$$BEC = 0.06104$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1250.07	0.0091	P	2.6
2	☐	50.000	52.541	73442.26	0.5364	P	0.6
3	☐	2500.000	2708.355	3600110.99	27.1906	A	1.4
4	☐	6250.000	6743.058	8292148.07	67.6834	A	1.6
5	☐	12500.000	13539.554	15629716.44	135.8940	A	2.1
6	☐	25000.000	26563.219	30237439.27	266.6014	A	1.0
7	☐	50000.000	51365.659	58730503.01	515.5222	A	1.3
8	☐	250000.00	249504.15	310635208.7	2.504.068	A	0.7

$$y = 0.0100 * x + 0.0091$$

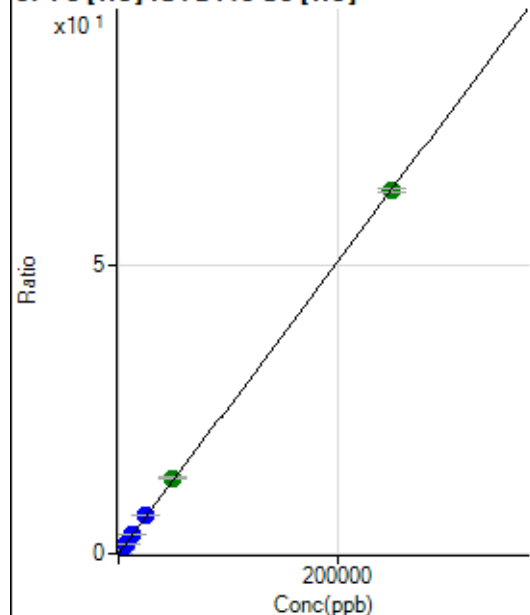
$$R = 1.0000$$

$$DL = 0.07005$$

$$BEC = 0.9091$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.45	0.0004	P	6.0
2	☐	50.000	53.603	1911.26	0.0140	P	2.2
3	☐	2500.000	2651.063	88839.04	0.6710	P	1.6
4	☐	6250.000	6669.542	206748.25	1.6876	P	1.4
5	☐	12500.000	13434.253	390924.95	3.3988	P	1.8
6	☐	25000.000	26401.896	757569.64	6.6792	P	0.6
7	☐	50000.000	52192.021	1504178.57	13.2033	A	0.7
8	☐	250000.00	249362.69	7824802.87	63.0812	A	1.2

$$y = 2.5297\text{E-}004 * x + 3.9712\text{E-}004$$

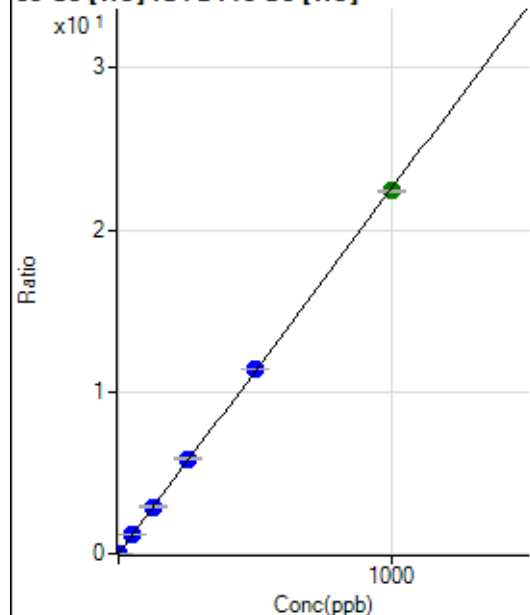
R = 1.0000

DL = 0.2809

BEC = 1.57

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.66	0.0003	P	42.9
2	☐	1.000	1.074	3352.65	0.0245	P	0.8
3	☐	50.000	51.635	154185.09	1.1646	P	1.0
4	☐	125.000	128.352	354578.43	2.8944	P	2.0
5	☐	250.000	258.896	671436.26	5.8380	P	2.4
6	☐	500.000	507.242	1297336.80	11.4379	P	0.3
7	☐	1000.000	993.654	2552544.16	22.4058	A	0.7
8	☐			7250.80	0.0585	P	4.1

$$y = 0.0225 * x + 2.6847\text{E-}004$$

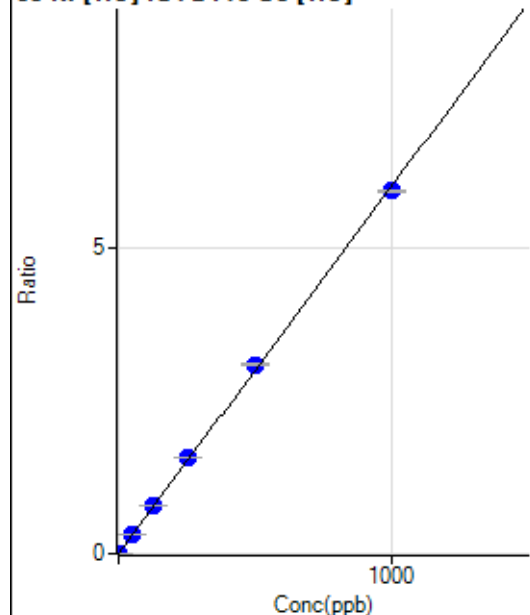
R = 0.9999

DL = 0.01533

BEC = 0.01191

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	41.11	0.0003	P	29.5
2	☐	1.000	0.984	847.81	0.0062	P	3.6
3	☐	50.000	52.703	41848.03	0.3161	P	0.8
4	☐	125.000	132.043	96963.25	0.7914	P	1.3
5	☐	250.000	262.512	180953.01	1.5732	P	1.0
6	☐	500.000	515.506	350353.63	3.0890	P	0.8
7	☐	1000.000	988.104	674492.49	5.9206	P	0.4
8	☐			3388.21	0.0273	P	5.5

$$y = 0.0060 * x + 3.0053E-004$$

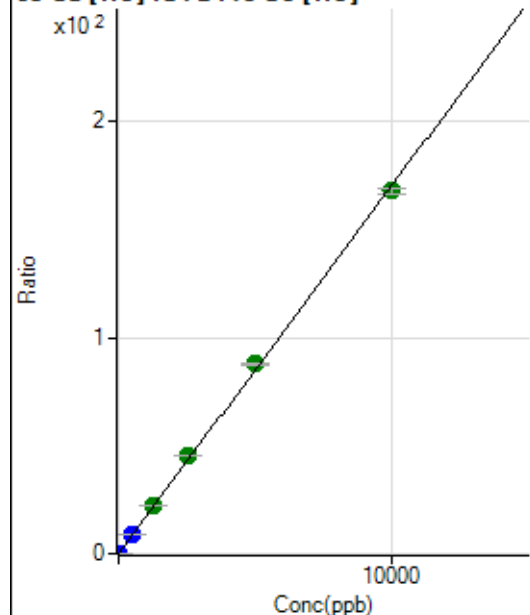
$$R = 0.9997$$

$$DL = 0.0444$$

$$BEC = 0.05016$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	507.79	0.0037	P	5.3
2	☐	2.000	2.051	5284.36	0.0386	P	2.3
3	☐	500.000	523.914	1180666.72	8.9181	P	1.1
4	☐	1250.000	1318.468	2748855.97	22.4374	A	1.4
5	☐	2500.000	2670.004	5225865.34	45.4337	A	1.3
6	☐	5000.000	5160.747	9959446.03	87.8136	A	1.3
7	☐	10000.000	9867.371	19126762.63	167.8966	A	1.3
8	☐			6280.36	0.0507	P	8.1

$$y = 0.0170 * x + 0.0037$$

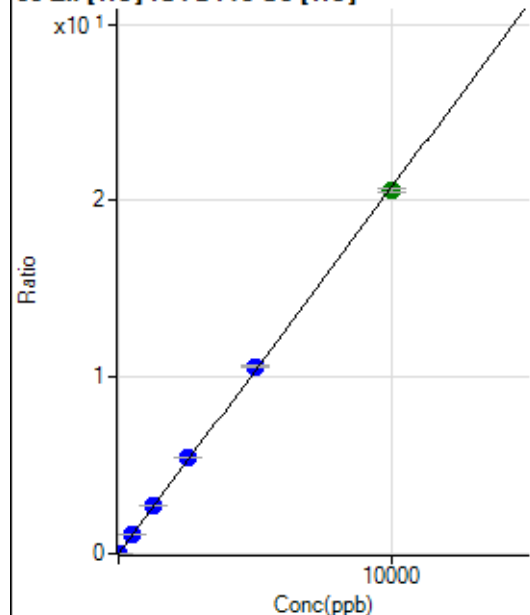
$$R = 0.9996$$

$$DL = 0.03447$$

$$BEC = 0.2179$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0009	P	2.3
2	☐	2.000	5.101	1575.66	0.0115	P	4.9
3	☐	500.000	525.600	144537.04	1.0918	P	2.2
4	☐	1250.000	1310.962	333444.51	2.7217	P	1.5
5	☐	2500.000	2617.352	624918.52	5.4331	P	1.4
6	☐	5000.000	5116.264	1204432.45	10.6194	P	1.1
7	☐	10000.000	9903.629	2341679.70	20.5554	A	0.9
8	☐			4419.64	0.0357	P	7.9

$$y = 0.0021 * x + 9.1614E-004$$

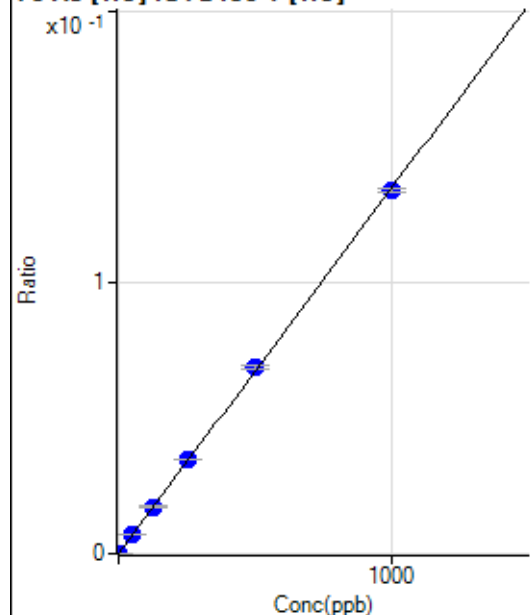
$$R = 0.9998$$

$$DL = 0.03036$$

$$BEC = 0.4414$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	1.000	1.078	158.89	0.0001	P	14.2
3	☐	50.000	50.590	7187.47	0.0068	P	0.4
4	☐	125.000	128.145	16870.21	0.0173	P	1.4
5	☐	250.000	256.750	31864.98	0.0346	P	0.5
6	☐	500.000	510.027	62076.07	0.0687	P	1.2
7	☐	1000.000	992.876	120011.90	0.1338	P	1.0
8	☐			72.22	0.0001	P	9.2

$$y = 1.3473E-004 * x + 1.0276E-006$$

$$R = 0.9999$$

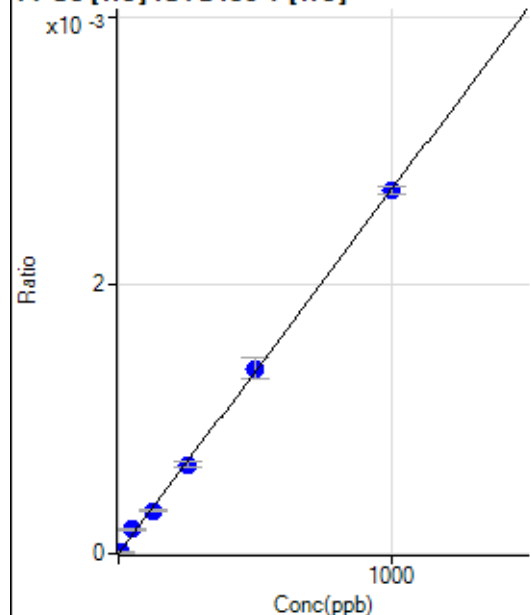
$$DL = 0.03963$$

$$BEC = 0.007627$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.743	12.22	0.0000	P	77.5
3	☐	50.000	66.380	191.11	0.0002	P	11.5
4	☐	125.000	117.858	313.34	0.0003	P	5.8
5	☐	250.000	244.236	611.13	0.0007	P	5.4
6	☐	500.000	509.493	1248.96	0.0014	P	11.5
7	☐	1000.000	996.774	2425.79	0.0027	P	2.0
8	☐			18.89	0.0000	P	53.5

$$y = 2.7119\text{E-}006 * x + 1.0332\text{E-}006$$

$$R = 0.9997$$

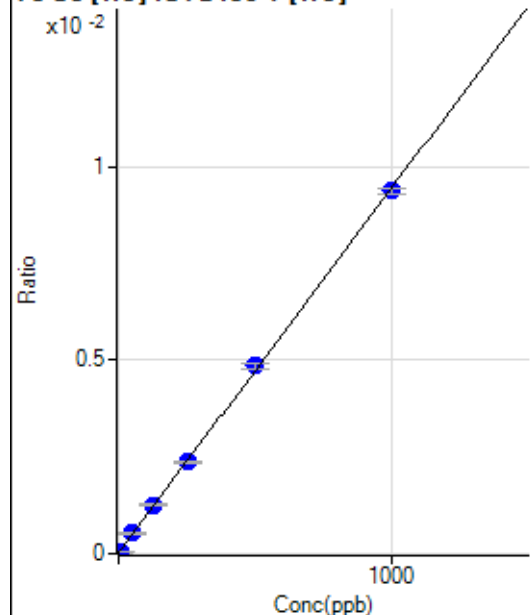
$$DL = 1.98$$

$$BEC = 0.381$$

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	23.33	0.0000	P	28.5
2	☐	5.000	4.554	70.00	0.0001	P	29.5
3	☐	50.000	53.224	552.24	0.0005	P	6.0
4	☐	125.000	131.854	1235.62	0.0013	P	5.1
5	☐	250.000	250.160	2192.42	0.0024	P	2.6
6	☐	500.000	512.048	4380.72	0.0048	P	2.4
7	☐	1000.000	992.920	8418.15	0.0094	P	1.8
8	☐			66.67	0.0001	P	9.1

$$y = 9.4285\text{E-}006 * x + 2.1637\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.965$$

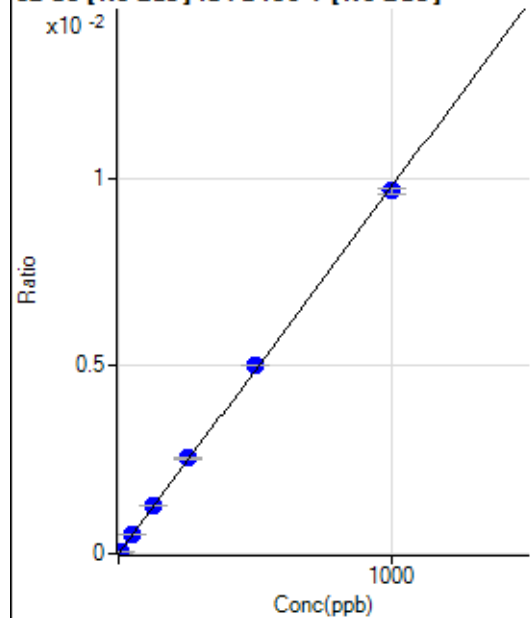
$$BEC = 2.295$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2384.67		P	4.6
2	☐			2392.45		P	2.7
3	☐			2281.32		P	2.2
4	☐			2055.73		P	1.8
5	☐			1947.93		P	3.3
6	☐			1703.45		P	2.9
7	☐			1985.72		P	4.5
8	☐			3961.71		P	11.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-2.22	0.0000	P	-991.
2	☐	5.000	4.897	503.36	0.0000	P	13.6
3	☐	50.000	51.515	5300.02	0.0005	P	2.4
4	☐	125.000	131.221	12851.72	0.0013	P	1.5
5	☐	250.000	260.945	24298.20	0.0025	P	2.5
6	☐	500.000	514.914	46810.92	0.0050	P	0.5
7	☐	1000.000	988.954	90286.57	0.0097	P	1.9
8	☐			521.13	0.0001	P	17.0

$$y = 9.7598E-006 * x - 1.9225E-007$$

$$R = 0.9998$$

$$DL = 0.5857$$

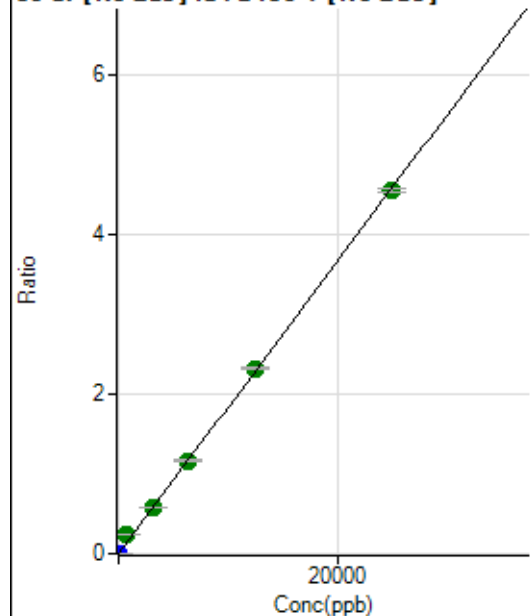
$$BEC = -0.0197$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			220.00		P	1.5
2	☐			212.22		P	1.8
3	☐			207.78		P	4.0
4	☐			181.12		P	18.4
5	☐			183.34		P	7.9
6	☐			178.89		P	16.3
7	☐			161.11		P	22.1
8	☐			155.56		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	385.56	0.0000	P	14.7
2	☐	1.000	0.999	2313.55	0.0002	P	7.7
3	☐	625.000	1286.323	2480638.04	0.2352	A	1.8
4	☐	3125.000	3194.876	5863755.54	0.5842	A	1.5
5	☐	6250.000	6378.731	11131222.34	1.1664	A	1.6
6	☐	12500.000	12684.787	21605903.29	2.3195	A	0.8
7	☐	25000.000	24850.156	42506933.25	4.5440	A	1.2
8	☐			7852.30	0.0009	P	53.2

$$y = 1.8285E-004 * x + 3.6081E-005$$

$$R = 0.9997$$

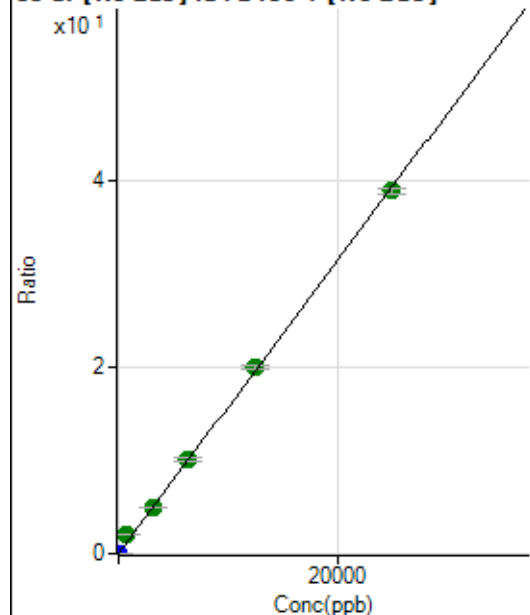
$$DL = 0.08692$$

$$BEC = 0.1973$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	468.90	0.0000	P	12.7
2	☐	1.000	1.027	17503.27	0.0017	P	2.3
3	☐	625.000	1269.882	20986333.57	1.9901	A	1.4
4	☐	3125.000	3197.486	50288588.69	5.0108	A	1.2
5	☐	6250.000	6442.235	96319551.90	10.0956	A	3.1
6	☐	12500.000	12765.748	186345457.2	20.0051	A	1.5
7	☐	25000.000	24793.884	363449656.8	38.8543	A	1.9
8	☐			62236.26	0.0069	P	54.3

$$y = 0.0016 * x + 4.3834E-005$$

$$R = 0.9996$$

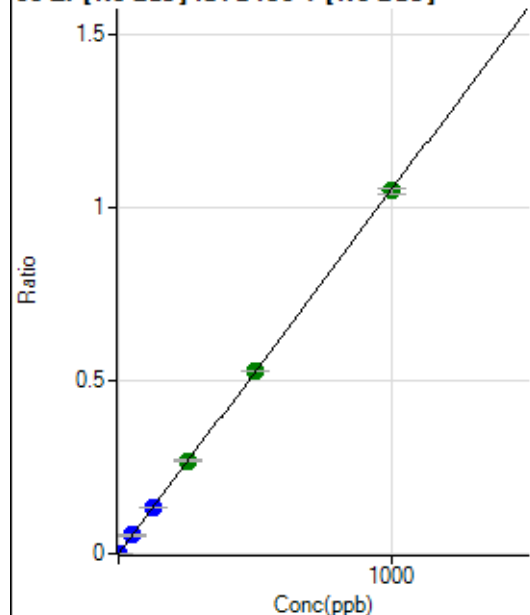
$$DL = 0.01063$$

$$BEC = 0.02797$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	400.01	0.0000	P	16.6
2	☐	1.000	0.957	11045.56	0.0010	P	4.7
3	☐	50.000	50.218	557087.27	0.0528	P	0.4
4	☐	125.000	125.985	1329584.68	0.1325	P	0.6
5	☐	250.000	255.756	2566003.76	0.2689	A	1.9
6	☐	500.000	503.260	4928452.39	0.5291	A	0.4
7	☐	1000.000	996.797	9803220.55	1.0479	A	1.4
8	☐			4769.84	0.0005	P	24.6

$$y = 0.0011 * x + 3.7439E-005$$

$$R = 1.0000$$

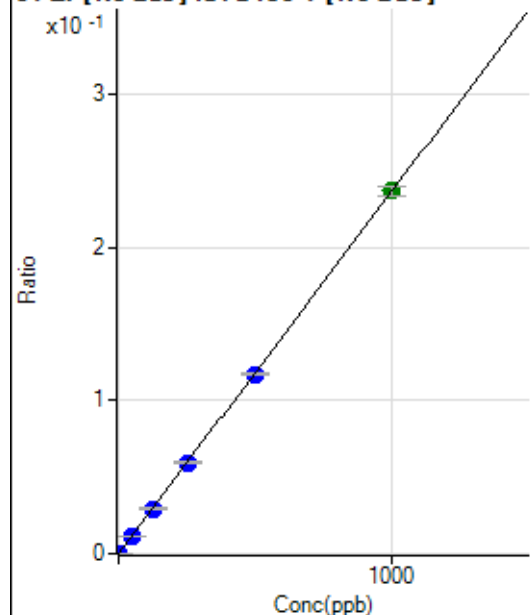
$$DL = 0.01778$$

$$BEC = 0.03561$$

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	86.67	0.0000	P	25.9
2	☐	1.000	0.908	2359.11	0.0002	P	3.2
3	☐	50.000	49.579	123813.28	0.0117	P	1.0
4	☐	125.000	124.463	295687.95	0.0295	P	0.6
5	☐	250.000	250.111	564825.31	0.0592	P	2.5
6	☐	500.000	495.865	1093157.37	0.1174	P	0.7
7	☐	1000.000	1002.128	2218494.50	0.2372	A	2.4
8	☐			1043.38	0.0001	P	14.8

$$y = 2.3665E-004 * x + 8.1128E-006$$

$$R = 1.0000$$

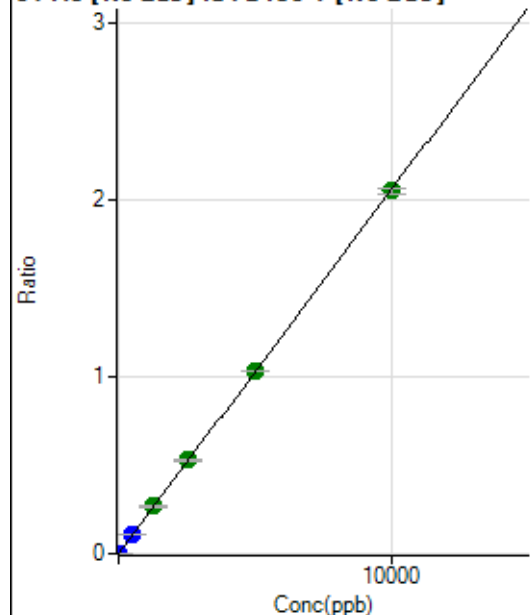
$$DL = 0.02661$$

$$BEC = 0.03428$$

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	123.34	0.0000	P	24.3
2	☐	5.000	5.818	12812.64	0.0012	P	3.7
3	☐	500.000	510.362	1109608.98	0.1052	P	1.0
4	☐	1250.000	1294.070	2677744.60	0.2668	A	2.0
5	☐	2500.000	2579.792	5075584.30	0.5318	A	1.5
6	☐	5000.000	5019.890	9639922.70	1.0349	A	0.8
7	☐	10000.000	9964.080	19215019.30	2.0541	A	1.6
8	☐			5522.45	0.0006	P	30.6

$$y = 2.0615E-004 * x + 1.1551E-005$$

$$R = 1.0000$$

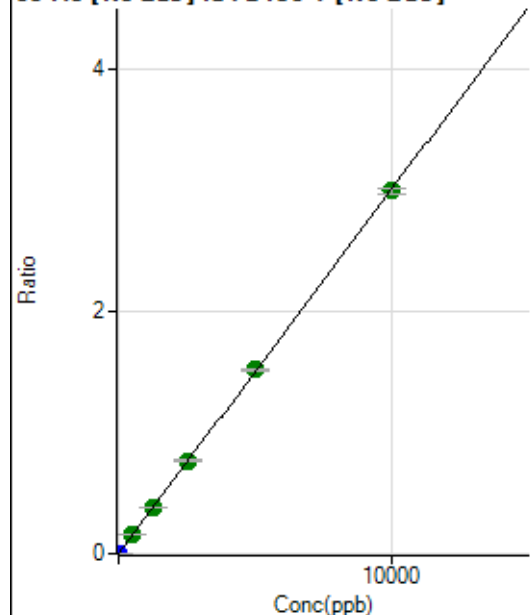
$$DL = 0.04084$$

$$BEC = 0.05603$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	27.4
2	☐	5.000	5.009	15967.03	0.0015	P	1.7
3	☐	500.000	504.719	1600841.61	0.1518	A	1.0
4	☐	1250.000	1272.414	3840982.55	0.3827	A	0.5
5	☐	2500.000	2558.857	7343590.31	0.7696	A	2.6
6	☐	5000.000	5044.307	14132868.68	1.5172	A	0.3
7	☐	10000.000	9960.094	28023174.58	2.9958	A	1.8
8	☐			7000.37	0.0008	P	45.6

$$y = 3.0078\text{E-}004 * x + 1.7664\text{E-}006$$

$$R = 1.0000$$

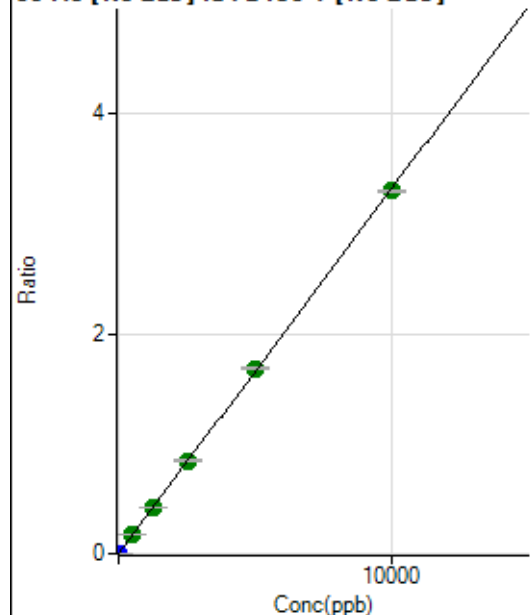
$$DL = 0.004831$$

$$BEC = 0.005873$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0000	P	13.0
2	☐	5.000	4.990	17594.60	0.0017	P	2.1
3	☐	500.000	514.000	1796261.09	0.1703	A	0.8
4	☐	1250.000	1276.217	4244383.30	0.4229	A	1.3
5	☐	2500.000	2541.044	8034596.34	0.8421	A	2.7
6	☐	5000.000	5080.074	15681138.66	1.6834	A	0.6
7	☐	10000.000	9945.725	30832437.32	3.2958	A	0.5
8	☐			7758.43	0.0009	P	42.6

$$y = 3.3138\text{E-}004 * x + 8.7141\text{E-}006$$

$$R = 0.9999$$

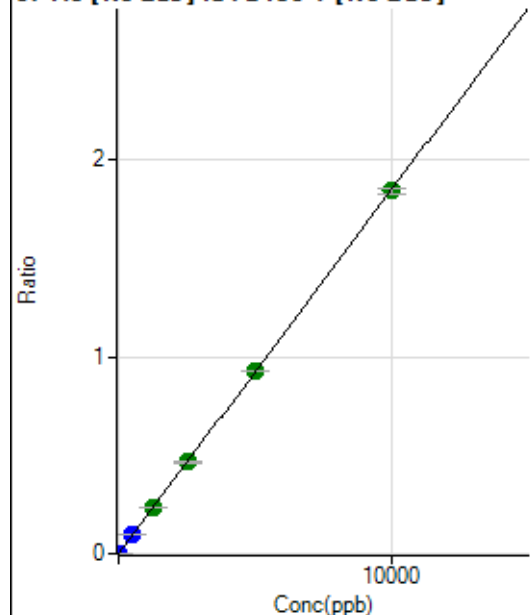
$$DL = 0.01029$$

$$BEC = 0.0263$$

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	7.78	0.0000	P	98.0
2	☐	5.000	4.887	9572.26	0.0009	P	3.8
3	☐	500.000	507.554	989882.62	0.0939	P	0.6
4	☐	1250.000	1266.950	2351655.03	0.2343	A	0.3
5	☐	2500.000	2532.082	4468570.63	0.4683	A	2.1
6	☐	5000.000	5038.045	8679352.09	0.9318	A	0.3
7	☐	10000.000	9970.461	17250265.71	1.8440	A	1.3
8	☐			4334.30	0.0005	P	43.2

$$y = 1.8494\text{E-}004 * x + 7.2150\text{E-}007$$

$$R = 1.0000$$

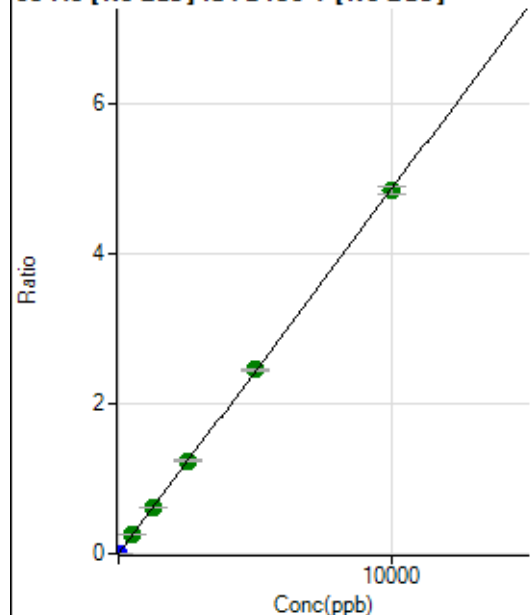
$$DL = 0.01147$$

$$BEC = 0.003901$$

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	46.67	0.0000	P	11.5
2	☐	5.000	4.860	25027.10	0.0024	P	4.7
3	☐	500.000	508.158	2603359.34	0.2469	A	0.5
4	☐	1250.000	1269.127	6187804.35	0.6166	A	1.1
5	☐	2500.000	2558.066	11859478.02	1.2428	A	1.8
6	☐	5000.000	5061.169	22903519.94	2.4588	A	1.1
7	☐	10000.000	9952.100	45225796.55	4.8349	A	2.2
8	☐			10658.00	0.0012	P	46.7

$$y = 4.8582\text{E-}004 * x + 4.3586\text{E-}006$$

$$R = 1.0000$$

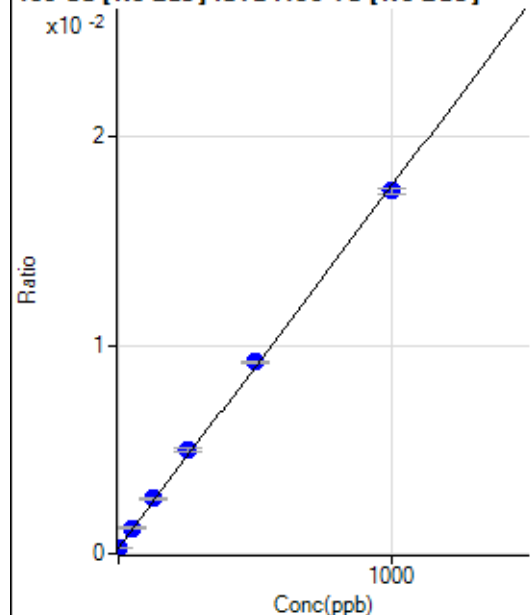
$$DL = 0.003083$$

$$BEC = 0.008972$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2571.38	0.0003	P	4.7
2	☐	1.000	1.412	2801.43	0.0003	P	2.9
3	☐	50.000	53.899	11302.51	0.0012	P	4.7
4	☐	125.000	135.097	23437.76	0.0026	P	0.8
5	☐	250.000	271.123	42629.16	0.0050	P	4.3
6	☐	500.000	513.345	78396.87	0.0092	P	1.2
7	☐	1000.000	986.589	150455.68	0.0174	P	1.7
8	☐			2346.89	0.0003	P	1.4

$$y = 1.7352\text{E-}005 * x + 2.8614\text{E-}004$$

$$R = 0.9996$$

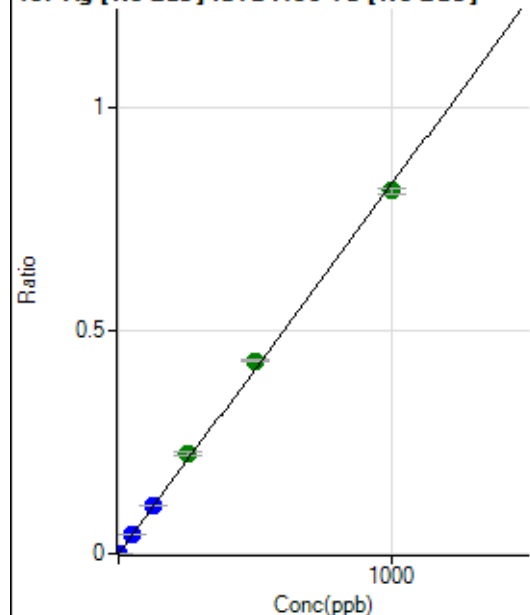
$$DL = 2.315$$

$$BEC = 16.49$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	113.34	0.0000	P	17.2
2	☐	1.000	1.042	7880.10	0.0009	P	3.4
3	☐	50.000	53.405	408535.91	0.0441	P	2.0
4	☐	125.000	131.004	964606.74	0.1083	P	0.2
5	☐	250.000	271.045	1913643.24	0.2240	A	3.0
6	☐	500.000	522.934	3684556.61	0.4321	A	0.5
7	☐	1000.000	982.351	7016458.16	0.8117	A	1.7
8	☐			1152.30	0.0001	P	45.1

$$y = 8.2625\text{E-}004 * x + 1.2598\text{E-}005$$

$$R = 0.9993$$

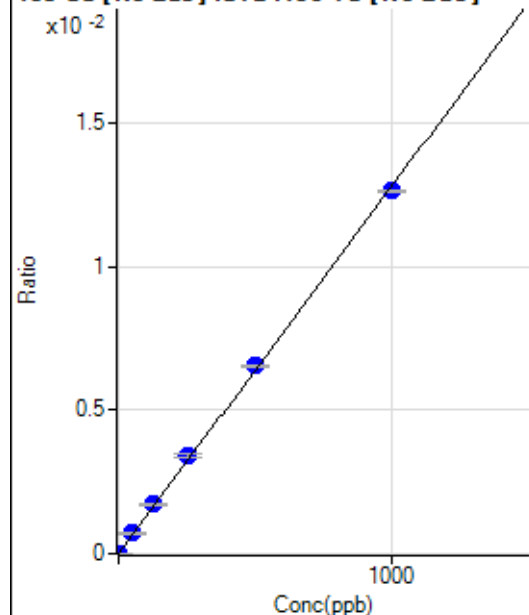
$$DL = 0.007865$$

$$BEC = 0.01525$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.55	0.0000	P	124.6
2	☐	1.000	1.108	133.33	0.0000	P	27.7
3	☐	50.000	55.342	6551.62	0.0007	P	1.5
4	☐	125.000	133.933	15255.21	0.0017	P	1.7
5	☐	250.000	265.623	29001.70	0.0034	P	3.6
6	☐	500.000	512.417	55840.35	0.0065	P	0.8
7	☐	1000.000	988.502	109194.03	0.0126	P	0.7
8	☐			145.56	0.0000	P	16.7

$$y = 1.2778\text{E-}005 * x + 6.1869\text{E-}007$$

$$R = 0.9997$$

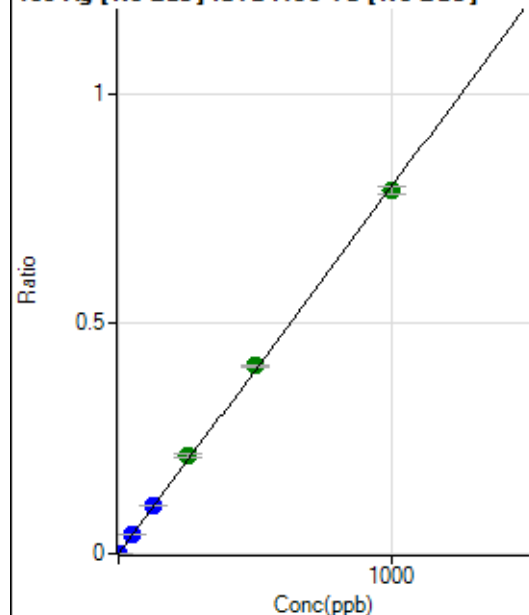
$$DL = 0.1809$$

$$BEC = 0.04842$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	57.78	0.0000	P	52.4
2	☐	1.000	1.050	7614.39	0.0008	P	3.3
3	☐	50.000	53.083	392097.00	0.0424	P	2.4
4	☐	125.000	131.174	932740.44	0.1047	P	1.0
5	☐	250.000	268.607	1830988.69	0.2143	A	3.9
6	☐	500.000	512.093	3484552.90	0.4086	A	0.7
7	☐	1000.000	988.376	6817237.75	0.7887	A	2.0
8	☐			1182.31	0.0001	P	44.7

$$y = 7.9797\text{E-}004 * x + 6.4109\text{E-}006$$

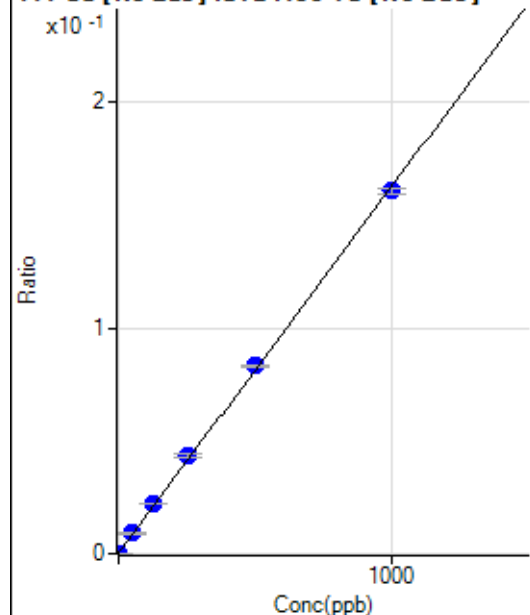
$$R = 0.9997$$

$$DL = 0.01264$$

$$BEC = 0.008034$$

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	1800.52	0.0002	P	4.7
2	☐	1.000	1.109	3432.22	0.0004	P	0.4
3	☐	50.000	54.053	83123.49	0.0090	P	2.4
4	☐	125.000	133.813	195475.35	0.0219	P	0.2
5	☐	250.000	267.819	373412.90	0.0437	P	3.1
6	☐	500.000	511.391	710078.44	0.0833	P	1.3
7	☐	1000.000	988.545	1389784.04	0.1608	P	1.6
8	☐			2589.88	0.0003	P	6.5

$$y = 1.6245\text{E-}004 * x + 2.0036\text{E-}004$$

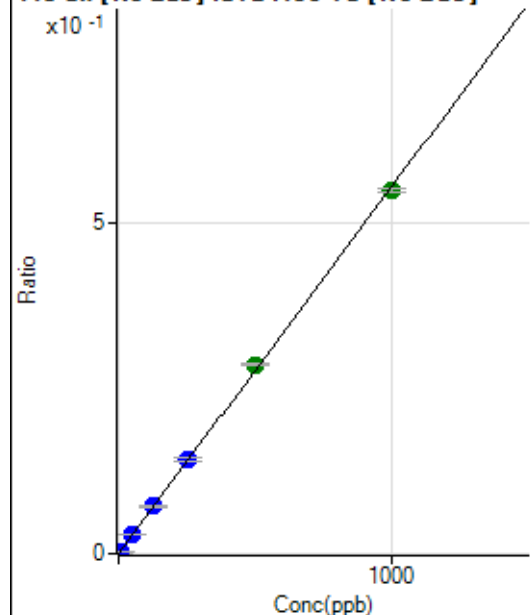
$$R = 0.9997$$

$$DL = 0.1723$$

$$BEC = 1.233$$

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	718.92	0.0001	P	4.9
2	☐	5.000	5.187	26709.43	0.0030	P	1.4
3	☐	50.000	51.382	264907.35	0.0286	P	2.6
4	☐	125.000	128.763	638099.09	0.0716	P	0.7
5	☐	250.000	257.441	1222128.32	0.1431	P	4.5
6	☐	500.000	516.363	2446828.44	0.2869	A	0.8
7	☐	1000.000	989.418	4752016.21	0.5497	A	1.0
8	☐			4003.97	0.0005	P	10.7

$$y = 5.5553\text{E-}004 * x + 7.9975\text{E-}005$$

$$R = 0.9998$$

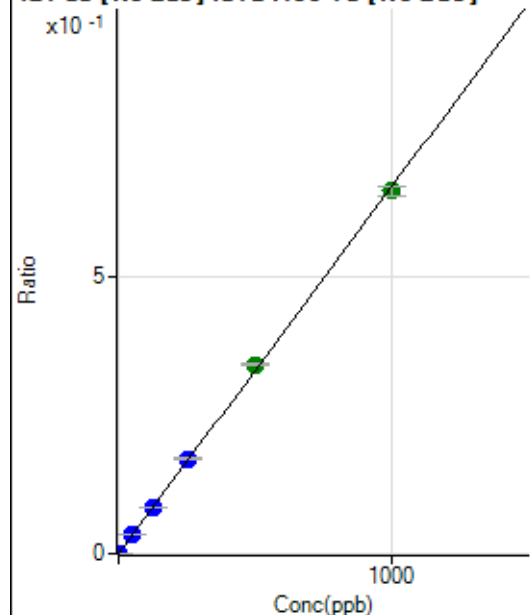
$$DL = 0.02116$$

$$BEC = 0.144$$

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	31.11	0.0000	P	31.0
2	☐	2.000	2.081	12437.98	0.0014	P	1.9
3	☐	50.000	51.305	314003.31	0.0339	P	1.7
4	☐	125.000	127.953	753842.31	0.0846	P	0.5
5	☐	250.000	259.158	1463734.70	0.1714	P	3.7
6	☐	500.000	515.764	2907863.88	0.3410	A	0.6
7	☐	1000.000	989.394	5654569.08	0.6542	A	2.3
8	☐			5442.27	0.0007	P	16.6

$$y = 6.6117\text{E-}004 * x + 3.4623\text{E-}006$$

$$R = 0.9998$$

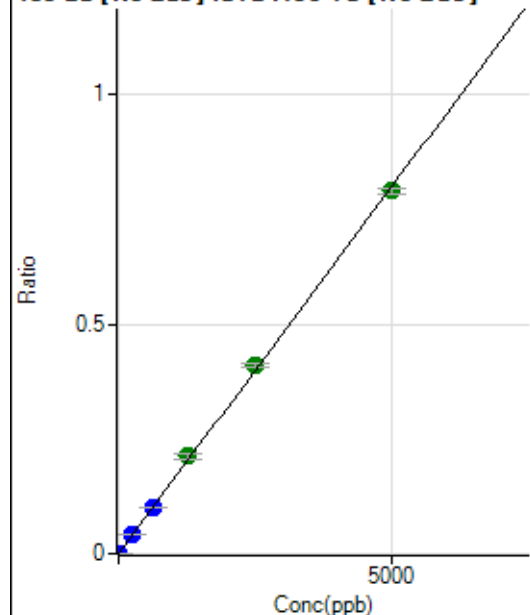
$$DL = 0.004871$$

$$BEC = 0.005237$$

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	81.11	0.0000	P	3.9
2	☐	10.000	10.197	14755.95	0.0016	P	2.1
3	☐	250.000	255.664	377665.19	0.0408	P	2.4
4	☐	625.000	634.190	901826.59	0.1012	P	0.5
5	☐	1250.000	1326.168	1807104.07	0.2116	A	5.2
6	☐	2500.000	2564.504	3489510.02	0.4092	A	2.3
7	☐	5000.000	4947.274	6824143.72	0.7895	A	1.3
8	☐			4260.74	0.0005	P	14.5

$$y = 1.5957\text{E-}004 * x + 9.0222\text{E-}006$$

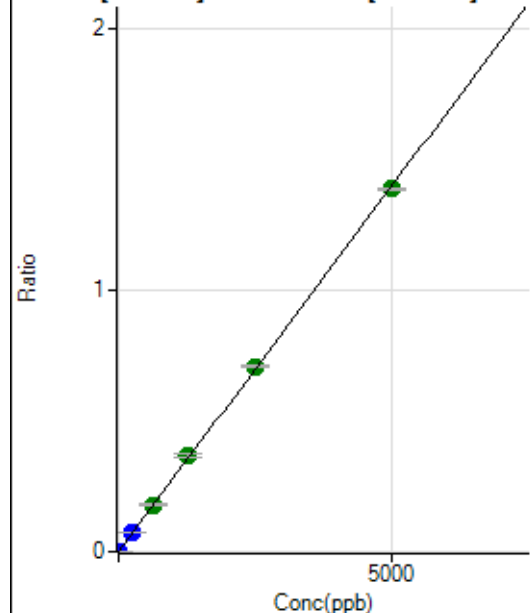
$$R = 0.9997$$

$$DL = 0.006674$$

$$BEC = 0.05654$$

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	55.56	0.0000	P	15.5
2	☐	10.000	10.412	26269.97	0.0029	P	1.0
3	☐	250.000	255.260	659652.28	0.0713	P	2.1
4	☐	625.000	643.982	1602106.57	0.1798	A	2.2
5	☐	1250.000	1311.368	3126725.96	0.3661	A	4.9
6	☐	2500.000	2533.426	6031300.19	0.7073	A	1.3
7	☐	5000.000	4965.308	11983408.44	1.3863	A	0.6
8	☐			7597.85	0.0009	P	17.4

$$y = 2.7919\text{E-}004 * x + 6.1846\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.01032$$

$$BEC = 0.02215$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	57.3
2	☐			11.11		P	86.6
3	☐			26.67		P	0.0
4	☐			45.55		P	15.2
5	☐			112.22		P	20.9
6	☐			211.11		P	2.4
7	☐			412.23		P	9.6
8	☐			243.34		P	8.3

150 Nd [He] No available calibration points

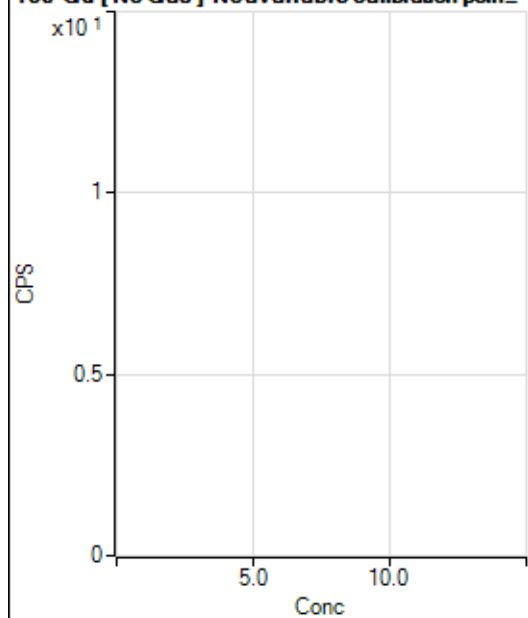
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			5.56		P	91.6
3	☐			3.33		P	100.1
4	☐			6.67		P	50.0
5	☐			13.33		P	50.0
6	☐			17.78		P	28.6
7	☐			38.89		P	13.1
8	☐			67.78		P	27.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			10.00		P	57.8
3	☐			24.44		P	51.6
4	☐			74.44		P	25.9
5	☐			114.45		P	4.4
6	☐			206.67		P	14.3
7	☐			397.79		P	11.6
8	☐			1343.41		P	6.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			6.67		P	50.0
3	☐			10.00		P	66.7
4	☐			36.67		P	24.0
5	☐			48.89		P	19.7
6	☐			86.67		P	21.4
7	☐			216.67		P	8.1
8	☐			594.47		P	5.6

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			67.78		P	20.5
2	☐			63.33		P	27.8
3	☐			92.22		P	8.4
4	☐			103.33		P	20.1
5	☐			152.23		P	17.7
6	☐			241.12		P	17.6
7	☐			447.79		P	7.6
8	☐			1485.65		P	3.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			92.22		P	30.1
2	☐			95.55		P	24.5
3	☐			81.11		P	24.8
4	☐			78.89		P	31.7
5	☐			115.56		P	4.4
6	☐			141.12		P	28.5
7	☐			240.01		P	12.7
8	☐			780.03		P	3.0

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	25.0
2	☐			72.22		P	35.2
3	☐			68.89		P	24.8
4	☐			106.67		P	11.3
5	☐			80.00		P	7.2
6	☐			125.56		P	26.1
7	☐			197.78		P	6.8
8	☐			192.23		P	8.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	29.4
2	☐			32.22		P	15.8
3	☐			22.22		P	34.7
4	☐			40.00		P	38.2
5	☐			41.11		P	20.4
6	☐			52.22		P	26.6
7	☐			91.11		P	11.2
8	☐			83.33		P	14.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.33		P	NaN
2	☐			62.22		P	12.4
3	☐			54.44		P	18.7
4	☐			87.78		P	20.9
5	☐			76.67		P	26.4
6	☐			110.00		P	16.0
7	☐			206.67		P	3.2
8	☐			190.00		P	3.5

172 Yb [He] No available calibration points

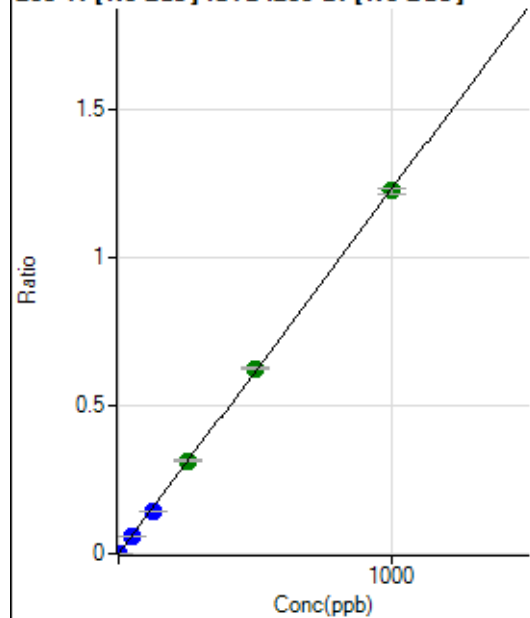
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	17.6
2	☐			42.22		P	16.4
3	☐			53.33		P	6.3
4	☐			27.78		P	6.9
5	☐			48.89		P	10.4
6	☐			58.89		P	11.8
7	☐			85.56		P	19.2
8	☐			92.22		P	19.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			960.05		P	5.7
2	☐			930.04		P	1.3
3	☐			2483.59		P	1.4
4	☐			4616.41		P	1.0
5	☐			8227.08		P	2.9
6	☐			15543.70		P	0.3
7	☐			30127.74		P	1.1
8	☐			900.04		P	1.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7036.39		P	0.7
2	☐			7128.66		P	2.4
3	☐			7402.15		P	1.6
4	☐			7837.96		P	2.6
5	☐			8860.82		P	1.5
6	☐			11699.72		P	3.0
7	☐			17776.48		P	1.8
8	☐			6498.33		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	130.00	0.0000	P	10.7
2	☐	1.000	0.924	7154.26	0.0012	P	2.6
3	☐	50.000	47.190	362930.50	0.0580	P	0.7
4	☐	125.000	117.771	886635.12	0.1447	P	1.6
5	☐	250.000	255.784	1858219.49	0.3143	A	2.1
6	☐	500.000	507.409	3627659.42	0.6234	A	0.8
7	☐	1000.000	995.894	7093862.95	1.2236	A	1.5
8	☐			2822.59	0.0005	P	18.7

$$y = 0.0012 * x + 2.1147E-005$$

$$R = 0.9999$$

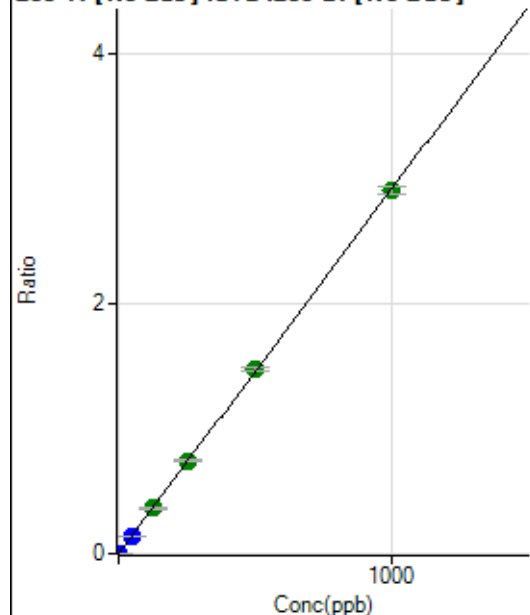
$$DL = 0.0055$$

$$BEC = 0.01721$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	330.01	0.0001	P	10.7
2	☐	1.000	0.937	17237.12	0.0028	P	2.6
3	☐	50.000	47.719	870711.12	0.1392	P	1.7
4	☐	125.000	123.976	2214642.45	0.3615	A	0.8
5	☐	250.000	254.978	4393976.91	0.7434	A	3.1
6	☐	500.000	507.331	8605943.20	1.4790	A	1.6
7	☐	1000.000	995.332	16822173.36	2.9016	A	2.0
8	☐			6943.27	0.0013	P	23.3

$$y = 0.0029 * x + 5.3614E-005$$

$$R = 0.9999$$

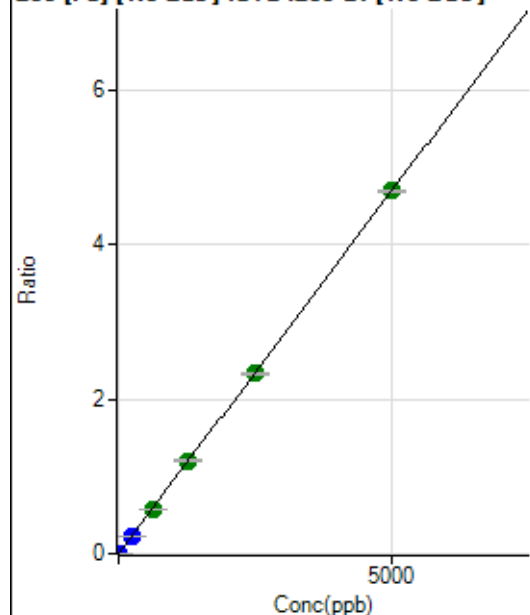
$$DL = 0.005923$$

$$BEC = 0.01839$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	358.90	0.0001	P	8.3
2	☐	1.000	0.983	6078.14	0.0010	P	2.3
3	☐	250.000	239.656	1409362.39	0.2252	P	1.0
4	☐	625.000	618.771	3562026.62	0.5814	A	1.1
5	☐	1250.000	1275.341	7083658.43	1.1982	A	2.5
6	☐	2500.000	2484.137	13579495.21	2.3338	A	1.5
7	☐	5000.000	5002.892	27250711.54	4.7001	A	0.5
8	☐			18289.18	0.0035	P	14.3

$$y = 9.3947E-004 * x + 5.8364E-005$$

$$R = 1.0000$$

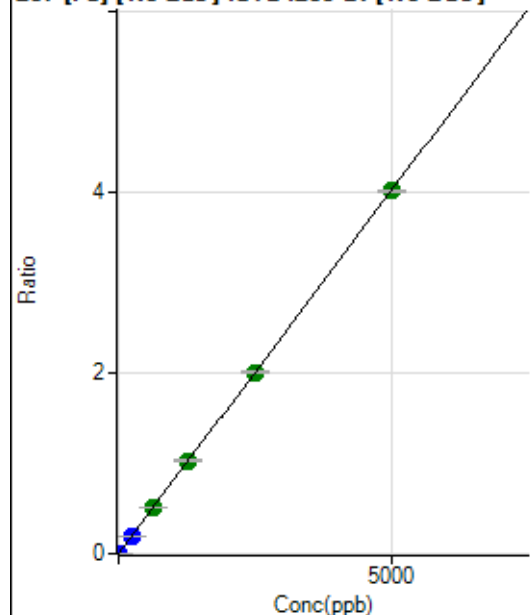
$$DL = 0.01549$$

$$BEC = 0.06212$$

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	283.34	0.0000	P	10.8
2	☐	1.000	1.025	5381.17	0.0009	P	4.0
3	☐	250.000	243.152	1221235.44	0.1952	P	0.8
4	☐	625.000	636.780	3131060.92	0.5110	A	1.3
5	☐	1250.000	1282.466	6086168.73	1.0292	A	1.3
6	☐	2500.000	2493.599	11643894.55	2.0011	A	1.0
7	☐	5000.000	4993.954	23235651.88	4.0076	A	0.5
8	☐			15732.22	0.0030	P	15.7

$$y = 8.0247E-004 * x + 4.6088E-005$$

$$R = 1.0000$$

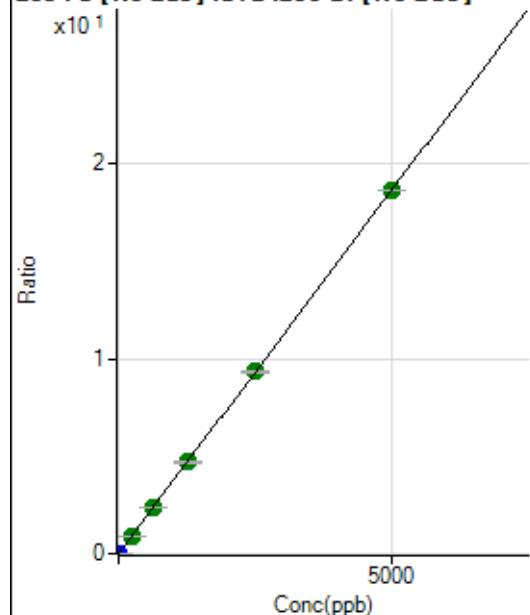
$$DL = 0.01863$$

$$BEC = 0.05743$$

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	1433.38	0.0002	P	12.0
2	☐	1.000	1.004	24589.38	0.0040	P	0.5
3	☐	250.000	248.302	5788822.27	0.9251	A	0.6
4	☐	625.000	625.879	14285059.93	2.3315	A	1.2
5	☐	1250.000	1268.385	27933278.47	4.7247	A	2.2
6	☐	2500.000	2501.949	54228846.83	9.3195	A	0.6
7	☐	5000.000	4994.404	107860346.4	18.6034	A	0.2
8	☐			72194.21	0.0139	P	14.5

$$y = 0.0037 * x + 2.3323E-004$$

$$R = 1.0000$$

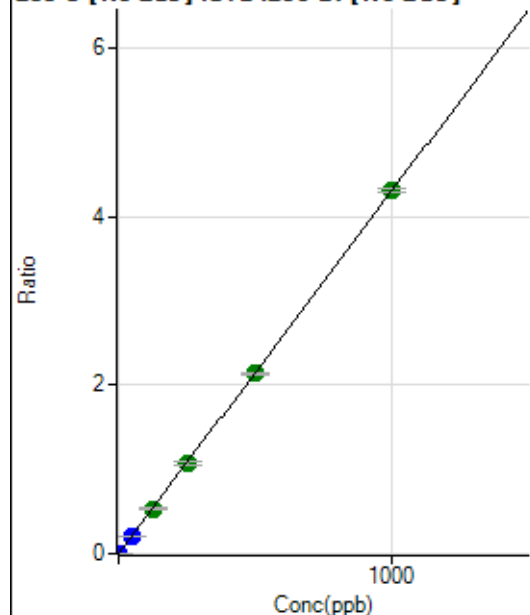
$$DL = 0.0226$$

$$BEC = 0.06261$$

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	8.89	0.0000	P	141.9
2	☐	1.000	0.872	23218.00	0.0038	P	1.3
3	☐	50.000	46.043	1238167.88	0.1979	P	1.5
4	☐	125.000	124.169	3269570.26	0.5337	A	1.7
5	☐	250.000	249.459	6337598.52	1.0721	A	3.0
6	☐	500.000	498.337	12462112.45	2.1417	A	1.1
7	☐	1000.000	1001.269	24947886.02	4.3032	A	1.1
8	☐			4773.49	0.0009	P	45.8

$$y = 0.0043 * x + 1.4276E-006$$

$$R = 1.0000$$

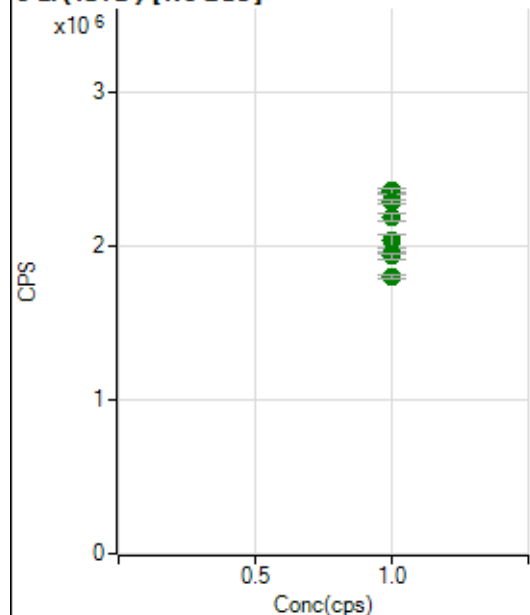
$$DL = 0.001414$$

$$BEC = 0.0003322$$

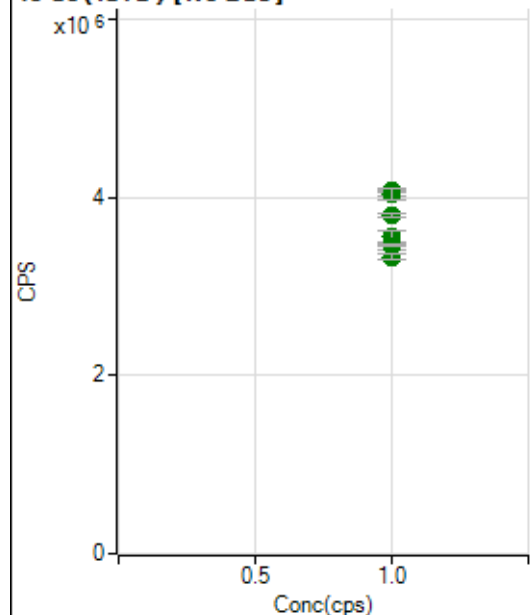
Weight: <None>

Min Conc: 0

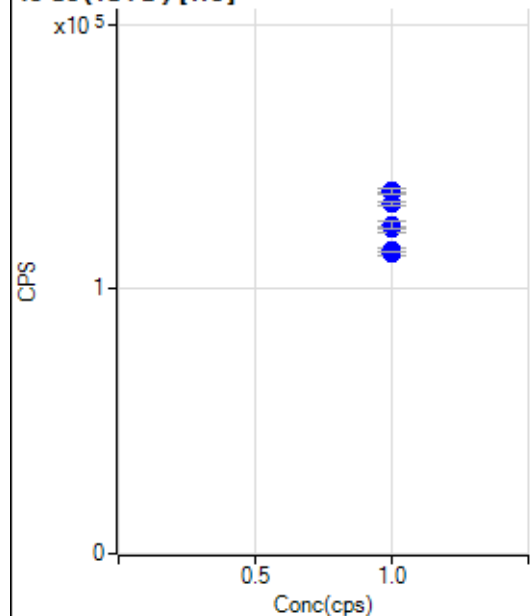
6 Li (ISTD) [No Gas]



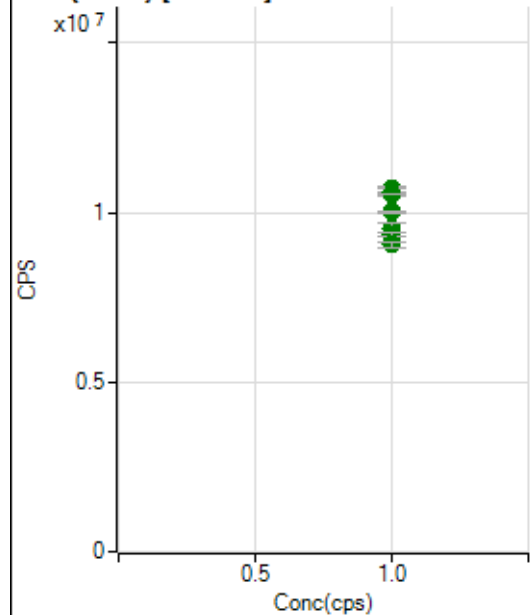
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		2357181.76		A	1.0
2	☐	1.000		2349878.35		A	1.7
3	☐	1.000		2290682.42		A	1.0
4	☐	1.000		2183986.35		A	2.6
5	☐	1.000		2033946.34		A	4.5
6	☐	1.000		1952172.43		A	0.6
7	☐	1.000		1933107.02		A	1.9
8	☐	1.000		1802803.60		A	1.5

45 Sc (ISTD) [No Gas]

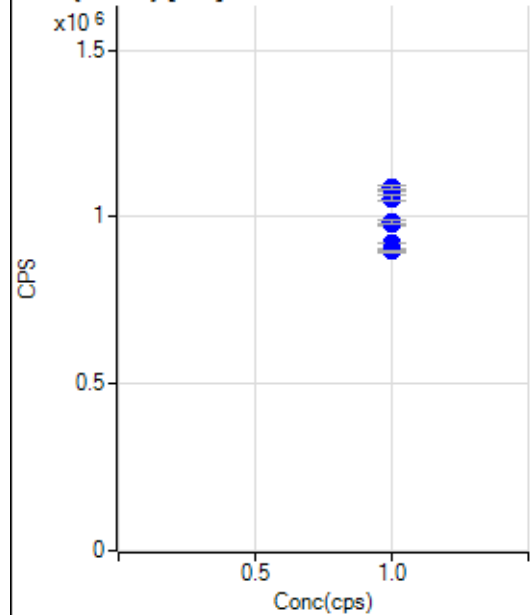
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4047535.74		A	1.2
2	☐	1.000		4078248.30		A	0.5
3	☐	1.000		4042894.94		A	2.9
4	☐	1.000		3806063.90		A	1.4
5	☐	1.000		3568694.81		A	3.3
6	☐	1.000		3467013.32		A	2.5
7	☐	1.000		3468833.21		A	0.6
8	☐	1.000		3337178.21		A	1.8

45 Sc (ISTD) [He]

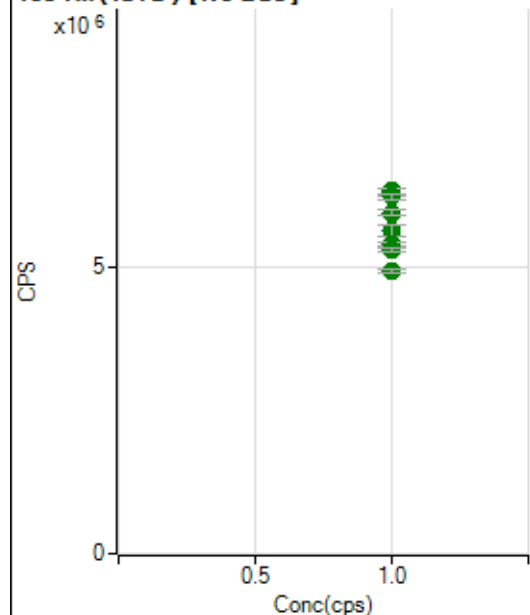
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		137041.32		P	1.2
2	☐	1.000		136916.37		P	1.2
3	☐	1.000		132393.62		P	0.9
4	☐	1.000		122534.03		P	1.9
5	☐	1.000		115035.03		P	1.3
6	☐	1.000		113425.81		P	1.0
7	☐	1.000		113923.07		P	0.4
8	☐	1.000		124063.55		P	2.0

89 Y (ISTD) [No Gas]

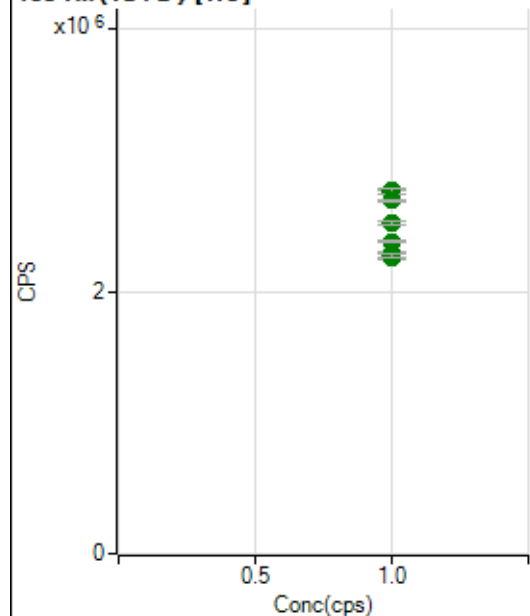
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10698986.72		A	1.3
2	☐	1.000		10587278.59		A	2.2
3	☐	1.000		10545152.28		A	0.4
4	☐	1.000		10036298.18		A	0.6
5	☐	1.000		9545985.14		A	2.8
6	☐	1.000		9315036.18		A	0.2
7	☐	1.000		9355276.53		A	0.9
8	☐	1.000		9049444.38		A	1.6

89 Y (ISTD) [He]

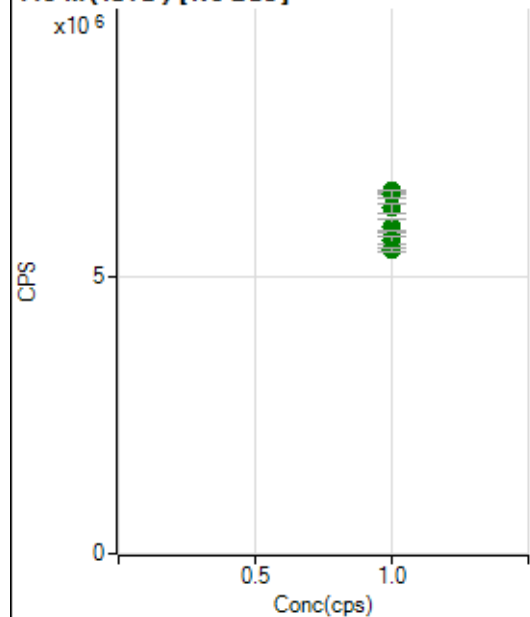
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1078464.44		P	0.3
2	☐	1.000		1086376.49		P	1.2
3	☐	1.000		1054330.84		P	1.6
4	☐	1.000		976981.07		P	0.8
5	☐	1.000		921125.21		P	0.4
6	☐	1.000		903352.86		P	0.5
7	☐	1.000		897108.50		P	0.4
8	☐	1.000		984858.21		P	1.0

103 Rh (ISTD) [No Gas]

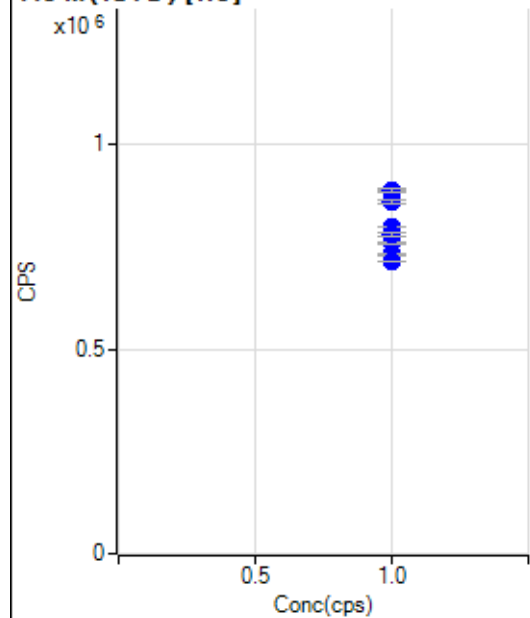
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6286011.02		A	2.3
2	☐	1.000		6311749.35		A	1.7
3	☐	1.000		6211813.87		A	1.9
4	☐	1.000		5937346.51		A	1.3
5	☐	1.000		5609693.32		A	3.8
6	☐	1.000		5382045.13		A	0.9
7	☐	1.000		5278738.05		A	1.1
8	☐	1.000		4910916.17		A	1.6

103 Rh (ISTD) [He]

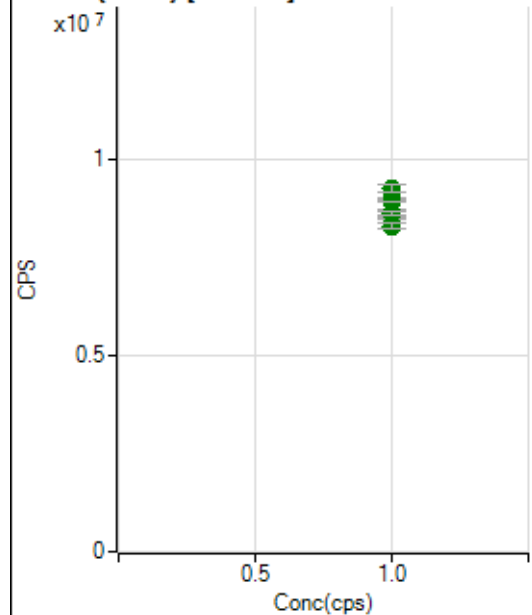
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2763967.18		A	1.0
2	☐	1.000		2767916.94		A	1.8
3	☐	1.000		2692608.12		A	0.8
4	☐	1.000		2517049.20		A	1.1
5	☐	1.000		2383065.23		A	1.1
6	☐	1.000		2292584.93		A	0.6
7	☐	1.000		2252550.35		A	1.0
8	☐	1.000		2272867.57		A	1.7

115 In (ISTD) [No Gas]

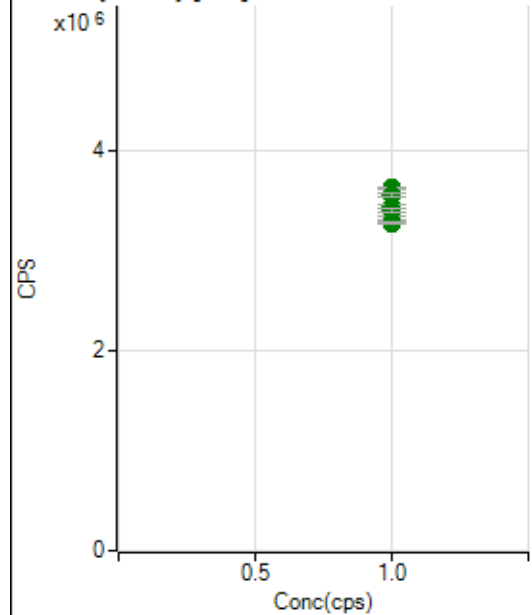
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6510033.38		A	0.9
2	☐	1.000		6541100.05		A	0.5
3	☐	1.000		6496575.97		A	2.1
4	☐	1.000		6233428.08		A	2.7
5	☐	1.000		5903392.13		A	4.0
6	☐	1.000		5821110.25		A	0.5
7	☐	1.000		5653172.68		A	2.2
8	☐	1.000		5471424.68		A	1.2

115 In (ISTD) [He]

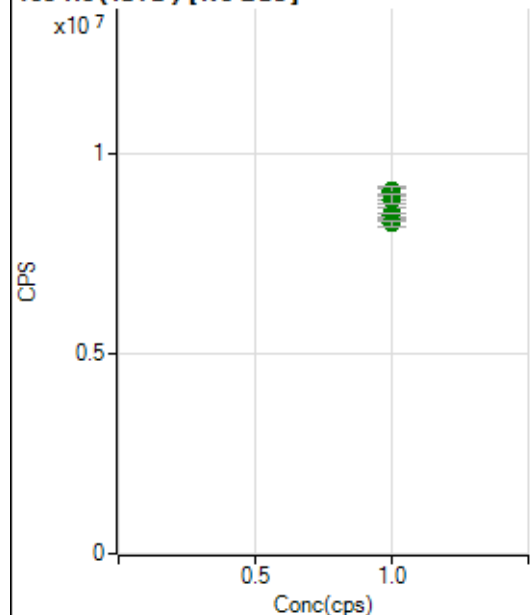
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		884170.32		P	0.5
2	☐	1.000		887025.74		P	1.0
3	☐	1.000		859659.80		P	1.1
4	☐	1.000		799725.52		P	0.3
5	☐	1.000		759773.99		P	0.7
6	☐	1.000		733004.94		P	0.6
7	☐	1.000		713604.38		P	0.3
8	☐	1.000		780564.03		P	1.4

159 Tb (ISTD) [No Gas]

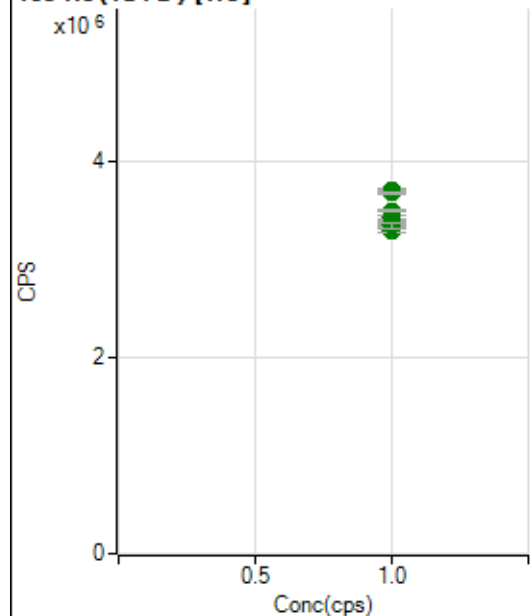
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8988203.27		A	0.9
2	☐	1.000		9018097.71		A	0.4
3	☐	1.000		9258256.18		A	2.2
4	☐	1.000		8910499.59		A	0.0
5	☐	1.000		8550920.71		A	4.1
6	☐	1.000		8527336.47		A	0.4
7	☐	1.000		8644713.83		A	1.0
8	☐	1.000		8309547.44		A	1.5

159 Tb (ISTD) [He]

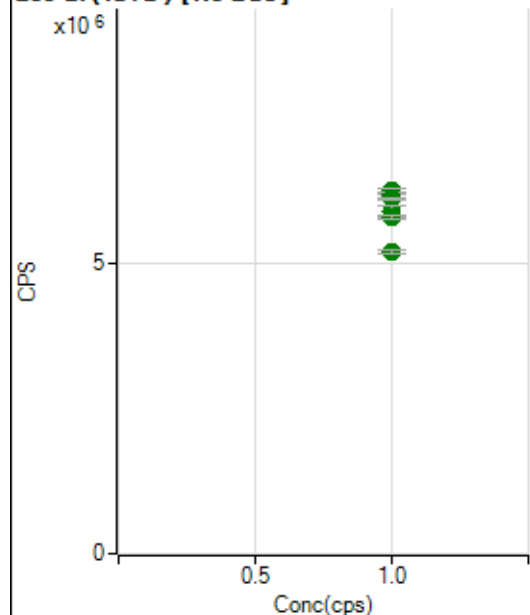
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3622510.09		A	0.8
2	☐	1.000		3619474.70		A	0.4
3	☐	1.000		3549485.43		A	1.4
4	☐	1.000		3433600.96		A	1.2
5	☐	1.000		3304054.43		A	1.7
6	☐	1.000		3286748.70		A	0.6
7	☐	1.000		3273469.81		A	0.5
8	☐	1.000		3406288.91		A	1.2

165 Ho (ISTD) [No Gas]

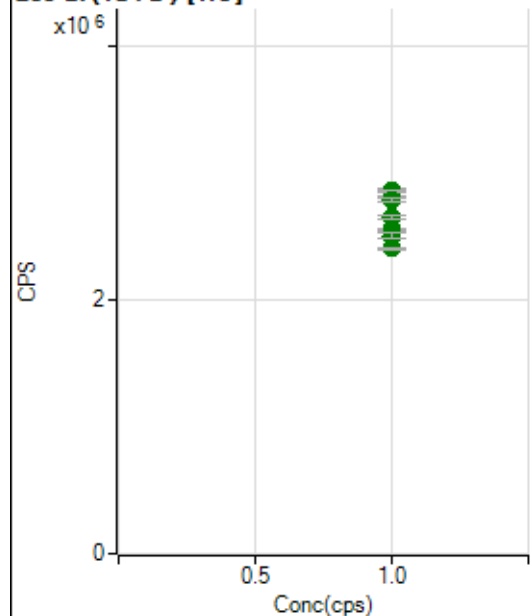
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9009966.74		A	3.2
2	☐	1.000		9061134.59		A	2.5
3	☐	1.000		9092044.73		A	2.4
4	☐	1.000		8887942.51		A	3.1
5	☐	1.000		8551102.37		A	2.4
6	☐	1.000		8452207.03		A	1.7
7	☐	1.000		8466593.83		A	1.2
8	☐	1.000		8276204.95		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3692554.63		A	0.3
2	☐	1.000		3682696.92		A	1.6
3	☐	1.000		3676730.60		A	0.6
4	☐	1.000		3416434.84		A	1.2
5	☐	1.000		3373549.95		A	1.1
6	☐	1.000		3292478.01		A	1.6
7	☐	1.000		3339291.24		A	1.3
8	☐	1.000		3491651.27		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6153959.35		A	1.7
2	☐	1.000		6190924.84		A	1.5
3	☐	1.000		6257676.16		A	1.2
4	☐	1.000		6126785.88		A	0.4
5	☐	1.000		5915065.61		A	3.3
6	☐	1.000		5819095.05		A	1.1
7	☐	1.000		5797824.08		A	0.9
8	☐	1.000		5201198.70		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2855483.57		A	2.0
2	☐	1.000		2860788.81		A	0.5
3	☐	1.000		2789324.78		A	1.4
4	☐	1.000		2657331.57		A	1.3
5	☐	1.000		2555259.42		A	0.9
6	☐	1.000		2532109.36		A	0.3
7	☐	1.000		2508644.58		A	2.3
8	☐	1.000		2408246.34		A	0.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020524 MS.b

Acq. Date-Time 2024-02-05 12:18:36

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		7495	74946.00			1.771	5.000
24		70497	704971.11			2.997	5.000
25		9247	92466.11			2.223	5.000
26		10869	108693.49			2.103	5.000
59		54818	548178.68			1.724	5.000
113		6656	66563.58			1.449	5.000
115		85003	850032.30			2.268	5.000
206		23525	235254.01			1.300	5.000
207		21536	215362.48			1.385	5.000
208		50379	503785.86			1.444	5.000
220		0	2.50			58.310	

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

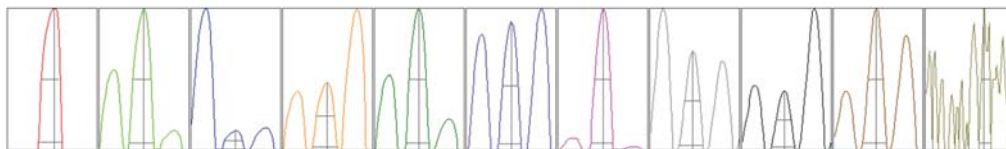
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7686	7558	7414	7344	7471
24	73481	71693	69553	68044	69714
25	9517	9385	9170	8991	9170
26	11148	11059	10768	10592	10779
59	56188	55188	54650	53648	54416
113	6747	6681	6677	6492	6686
115	87689	85474	83573	82744	85537
206	23778	23508	23356	23119	23866
207	21723	21489	21469	21106	21895
208	50393	50270	49983	49667	51580

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	12595.25	9.10	8.90 - 9.10	
24	122042.07	24.00	23.90 - 24.10	
25	16578.55	25.00	24.90 - 25.10	
26	19228.48	26.00	25.90 - 26.10	
59	101657.21	59.00	58.90 - 59.10	
113	13254.85	113.05	112.90 - 113.10	
115	168621.92	115.05	114.90 - 115.10	
206	46789.43	205.95	205.90 - 206.10	
207	42462.82	206.95	206.90 - 207.10	
208	101389.83	207.95	207.90 - 208.10	
220	0.50	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.784	0.900	
24	0.61	0.827	0.900	
25	0.60	0.743	0.900	
26	0.59	0.821	0.900	
59	0.56	0.776	0.900	
113	0.52	0.758	0.900	
115	0.52	0.736	0.900	
206	0.50	0.796	0.900	
207	0.50	0.780	0.900	
208	0.50	0.804	0.900	
220	0.30	0.391		

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	10.0 V	Deflect	14.2 V
Extract 2	-210.0 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	124	Axis Gain	0.9989	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.05		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2305 V	Pulse HV	1679 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12453	124533.31			0.200	
89		9472	94723.40			0.207	
205		15905	159052.56			0.502	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12482	12472	12451	12442	12419
89	9445	9480	9470	9499	9467
205	15883	15778	15932	15951	15982

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	10.0 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-210.0 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	200 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9989	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.05		
Hardware Settings					
Torch					
Torch H	1.3 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.6 mV	Analog HV	2305 V	Pulse HV	1679 V