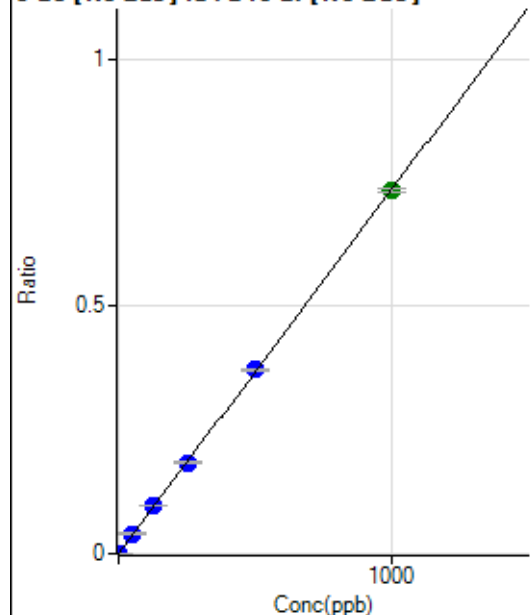


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030823MS2.b\
 Analysis File: P8030823MS2.batch.bin
 DA Date-Time: 2023-03-08 21:46:38
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-03-08 15:08:32
2	006CALB.d	S02	2023-03-08 15:14:39
3	007CALS.d	S03	2023-03-08 15:17:41
4	008CALS.d	S04	2023-03-08 15:20:41
5	009CALS.d	S05	2023-03-08 15:23:40
6	010CALS.d	S06	2023-03-08 15:26:41
7	011CALS.d	S07	2023-03-08 15:29:39
8	012CALS.d	S08	2023-03-08 15:32:40

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.42	0.0000	P	10.9
2	☐	1.000	1.028	1899.06	0.0008	P	3.0
3	☐	50.000	54.408	93570.83	0.0400	P	9.3
4	☐	125.000	130.097	231555.60	0.0956	P	0.7
5	☐	250.000	249.568	445315.38	0.1835	P	1.9
6	☐	500.000	504.883	859128.38	0.3712	P	1.6
7	☐	1000.000	996.809	1689235.06	0.7328	A	1.2
8	☐			896.59	0.0004	P	4.1

$$y = 7.3515\text{E-}004 * x + 8.1814\text{E-}006$$

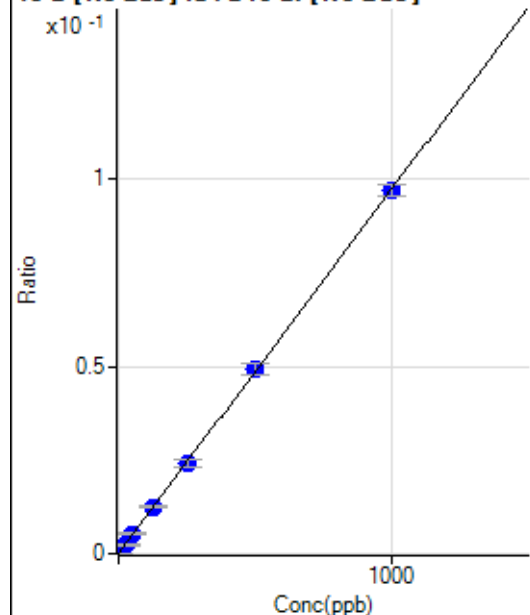
$$R = 1.0000$$

$$DL = 0.003627$$

$$BEC = 0.01113$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	156.64	0.0001	P	9.8
2	☐	25.000	23.385	5804.69	0.0023	P	8.5
3	☐	50.000	52.419	12066.60	0.0052	P	10.7
4	☐	125.000	127.111	30084.20	0.0124	P	4.1
5	☐	250.000	248.442	58750.93	0.0242	P	7.1
6	☐	500.000	508.014	114401.89	0.0495	P	6.0
7	☐	1000.000	996.038	223296.00	0.0969	P	3.1
8	☐			15938.18	0.0072	P	7.7

$$y = 9.7222\text{E-}005 * x + 6.3398\text{E-}005$$

$$R = 0.9999$$

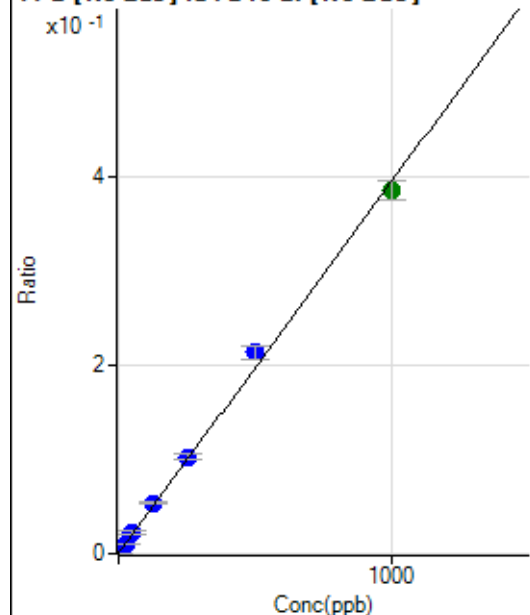
$$DL = 0.191$$

$$BEC = 0.6521$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	683.88	0.0003	P	11.8
2	☐	25.000	24.664	24898.22	0.0100	P	5.3
3	☐	50.000	55.858	52241.32	0.0223	P	12.3
4	☐	125.000	134.455	129323.96	0.0534	P	4.5
5	☐	250.000	260.442	250331.24	0.1032	P	6.5
6	☐	500.000	541.432	495421.47	0.2142	P	7.0
7	☐	1000.000	975.208	888298.17	0.3856	A	5.3
8	☐			68615.48	0.0309	P	7.2

$$y = 3.9508\text{E-}004 * x + 2.7716\text{E-}004$$

$$R = 0.9986$$

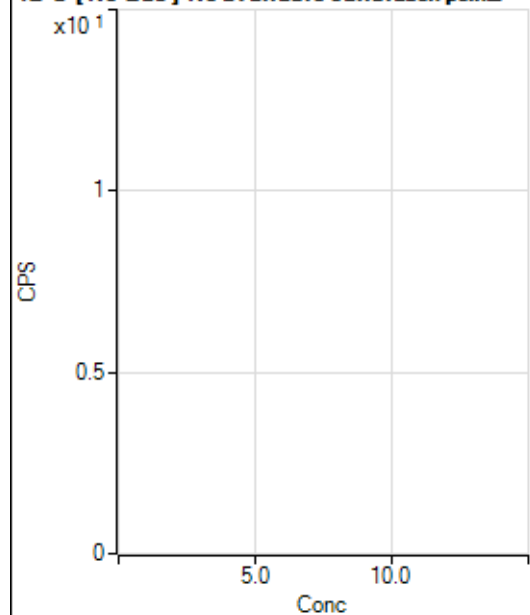
$$DL = 0.2477$$

$$BEC = 0.7015$$

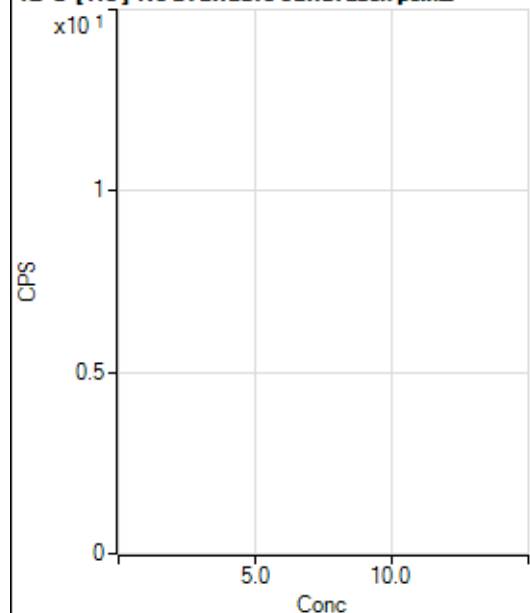
Weight: <None>

Min Conc: 0

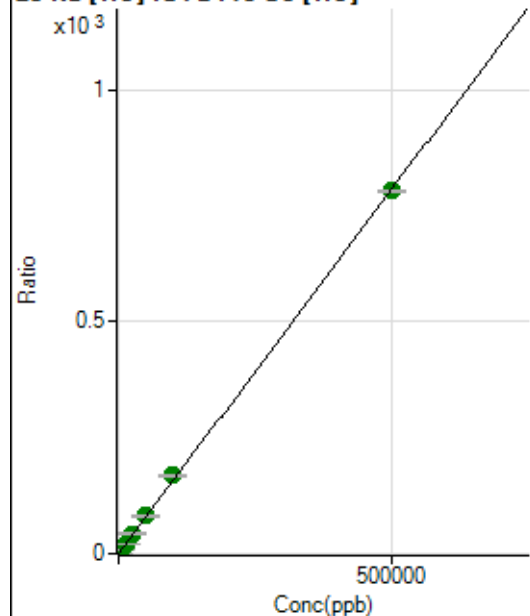
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			3113541.58		A	1.4
2	☐			2955519.62		A	0.7
3	☐			3206725.18		A	1.0
4	☐			3222923.21		A	2.0
5	☐			3183149.31		A	1.8
6	☐			3241485.62		A	1.7
7	☐			3390174.80		A	3.0
8	☐			3807848.39		A	6.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38838.24		P	0.5
2	☐			37066.90		P	0.9
3	☐			41807.37		P	1.4
4	☐			42113.85		P	2.8
5	☐			42033.21		P	1.0
6	☐			42445.35		P	0.9
7	☐			46574.37		P	0.1
8	☐			56277.81		P	3.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11201.81	0.0901	P	2.0
2	☐	500.000	491.897	107151.30	0.8629	P	4.2
3	☐	5000.000	5418.147	1061541.79	8.6026	A	2.7
4	☐	12500.000	13454.153	2588831.85	21.2281	A	4.6
5	☐	25000.000	27292.176	4967197.42	42.9693	A	2.8
6	☐	50000.000	52139.554	9780964.37	82.0074	A	3.1
7	☐	100000.00	107615.25	20143772.67	169.1661	A	2.9
8	☐	500000.00	498120.35	95792966.03	782.6950	A	0.5

$$y = 0.0016 * x + 0.0901$$

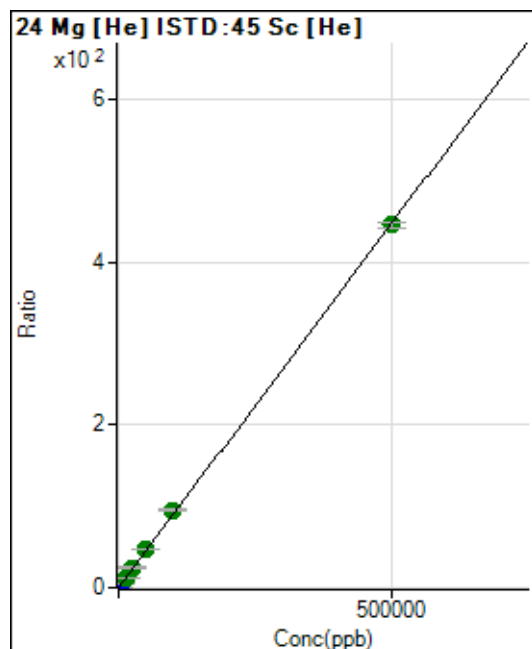
$$R = 0.9999$$

$$DL = 3.482$$

$$BEC = 57.33$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.78	0.0012	P	17.4
2	☐	500.000	484.097	54042.50	0.4351	P	3.6
3	☐	5000.000	5471.081	605124.19	4.9041	P	3.2
4	☐	12500.000	13668.778	1494186.04	12.2505	A	2.7
5	☐	25000.000	27532.492	2852180.53	24.6744	A	1.9
6	☐	50000.000	52531.121	5616074.95	47.0769	A	2.0
7	☐	100000.00	106807.63	11398546.96	95.7167	A	2.8
8	☐	500000.00	498224.82	54647002.61	446.4843	A	1.8

$$y = 8.9615\text{E-}004 * x + 0.0012$$

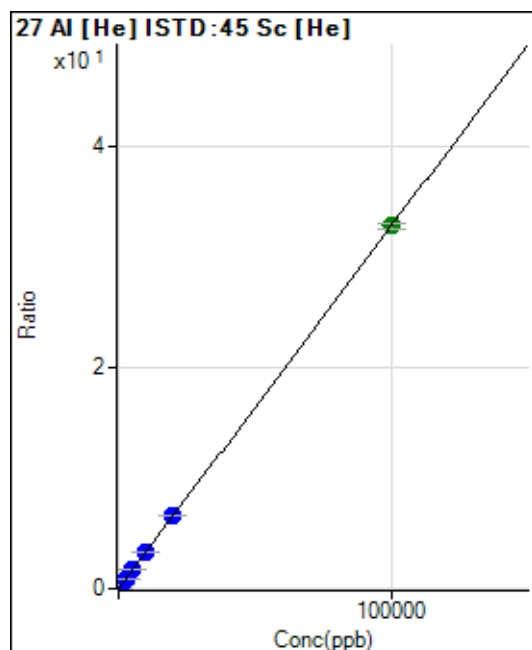
$$R = 0.9999$$

$$DL = 0.7147$$

$$BEC = 1.371$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.32	0.0004	P	29.4
2	☐	20.000	20.567	893.67	0.0072	P	1.2
3	☐	1000.000	1032.662	41946.95	0.3400	P	4.8
4	☐	2500.000	2564.871	102923.19	0.8438	P	2.0
5	☐	5000.000	5194.979	197515.58	1.7086	P	2.2
6	☐	10000.000	9895.735	388323.06	3.2543	P	1.2
7	☐	20000.000	20115.494	787681.50	6.6146	P	2.1
8	☐	100000.00	99975.630	4022906.00	32.8736	A	1.8

$$y = 3.2881\text{E-}004 * x + 4.2886\text{E-}004$$

$$R = 1.0000$$

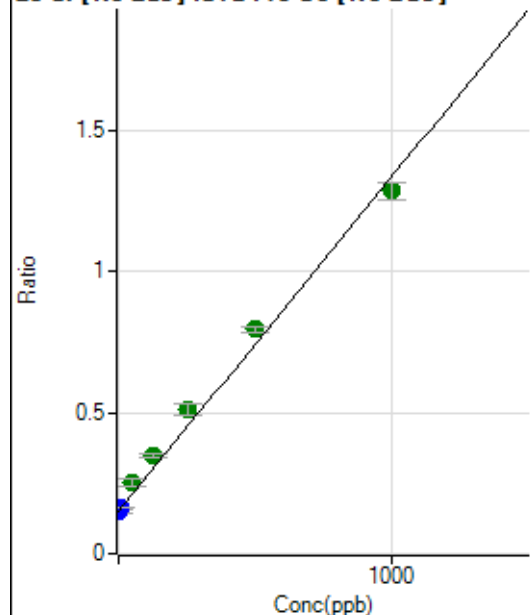
$$DL = 1.152$$

$$BEC = 1.304$$

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	606674.58	0.1503	P	8.6
2	☐	10.000	12.881	655899.40	0.1655	P	1.1
3	☐	50.000	84.828	923218.62	0.2506	A	11.7
4	☐	125.000	164.856	1344719.52	0.3452	A	4.1
5	☐	250.000	302.187	1918924.44	0.5076	A	8.3
6	☐	500.000	543.755	3022647.75	0.7933	A	3.1
7	☐	1000.000	958.324	4828237.69	1.2836	A	4.5
8	☐			922358.28	0.2413	A	6.2

$$y = 0.0012 * x + 0.1503$$

R = 0.9965

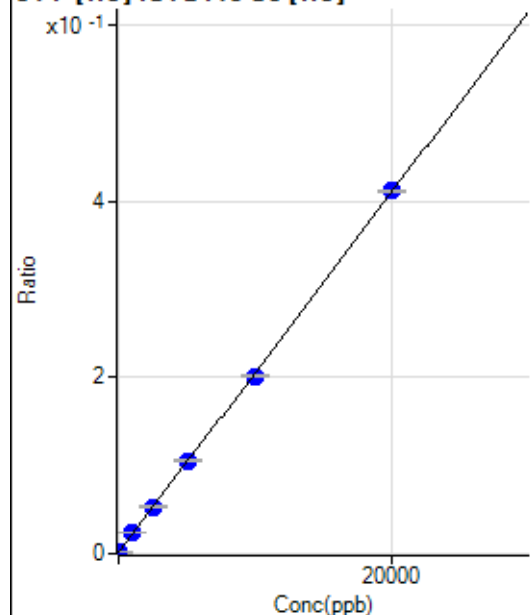
DL = 32.95

BEC = 127.1

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	-11.155	116.67	0.0009	P	12.2
2	☐	0.000	11.155	172.23	0.0014	P	27.6
3	☐	1000.000	1096.406	2914.26	0.0236	P	3.4
4	☐	2500.000	2555.723	6523.90	0.0535	P	2.3
5	☐	5000.000	5113.900	12236.02	0.1059	P	0.6
6	☐	10000.000	9768.860	24006.48	0.2011	P	1.2
7	☐	20000.000	20075.309	49078.34	0.4121	P	0.6
8	☐			113.89	0.0009	P	33.0

$$y = 2.0471E-005 * x + 0.0012$$

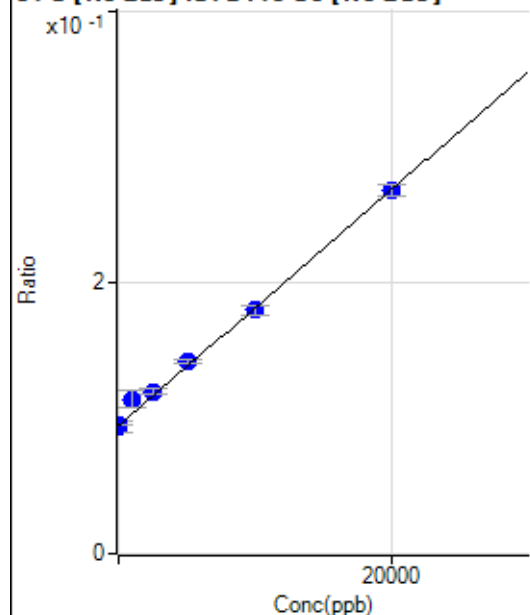
R = 0.9999

DL = 36.58

BEC = 56.98

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	-110.011	377666.82	0.0935	P	8.5
2	☐	0.000	110.011	378289.21	0.0954	P	0.4
3	☐	1000.000	2261.079	420630.03	0.1142	P	11.9
4	☐	2500.000	2910.520	466376.33	0.1199	P	3.4
5	☐	5000.000	5444.647	536485.20	0.1420	P	2.0
6	☐	10000.000	9786.052	684315.10	0.1798	P	3.8
7	☐	20000.000	19881.444	1006763.97	0.2678	P	3.1
8	☐			326923.91	0.0855	P	3.5

$$y = 8.7193\text{E-}006 * x + 0.0945$$

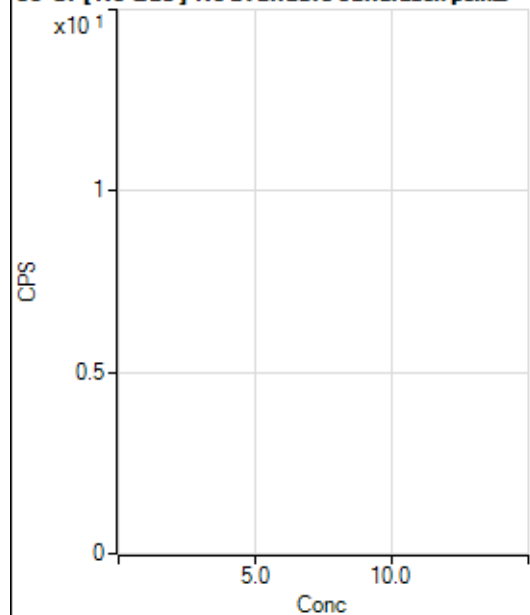
$$R = 0.9979$$

$$DL = 1422$$

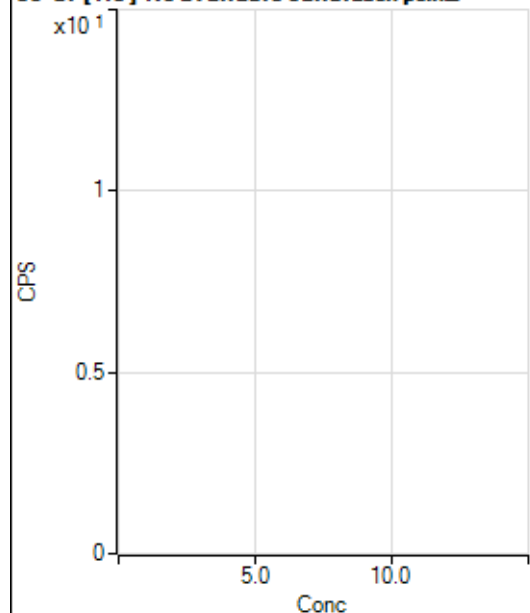
$$BEC = 1.084\text{E}+04$$

Weight: <None>

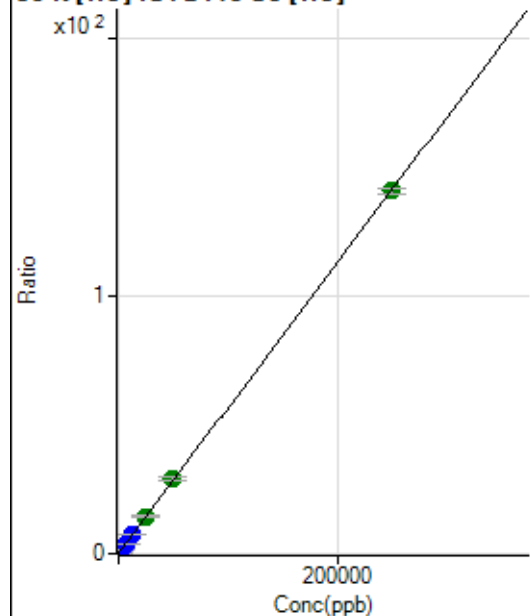
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			459750.09		P	2.2
2	☐			403976.05		P	1.6
3	☐			459768.48		P	0.7
4	☐			449561.26		P	1.8
5	☐			432458.26		P	0.9
6	☐			418658.43		P	1.1
7	☐			414714.35		P	0.7
8	☐			407851.13		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3094.84		P	1.5
2	☐			2566.96		P	12.7
3	☐			2980.95		P	9.0
4	☐			2728.11		P	2.5
5	☐			2769.79		P	5.6
6	☐			2878.14		P	6.2
7	☐			2775.34		P	4.5
8	☐			2755.88		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	18414.91	0.1481	P	1.8
2	☐	500.000	470.635	51353.19	0.4136	P	3.7
3	☐	2500.000	2584.792	198213.59	1.6062	P	1.7
4	☐	6250.000	6350.362	455086.11	3.7305	P	1.6
5	☐	12500.000	12880.437	857068.93	7.4143	P	2.2
6	☐	25000.000	25456.020	1731223.00	14.5085	A	1.7
7	☐	50000.000	51405.078	3470615.05	29.1470	A	2.8
8	☐	250000.00	249651.06	17255817.75	140.9826	A	1.5

$$y = 5.6413\text{E-}004 * x + 0.1481$$

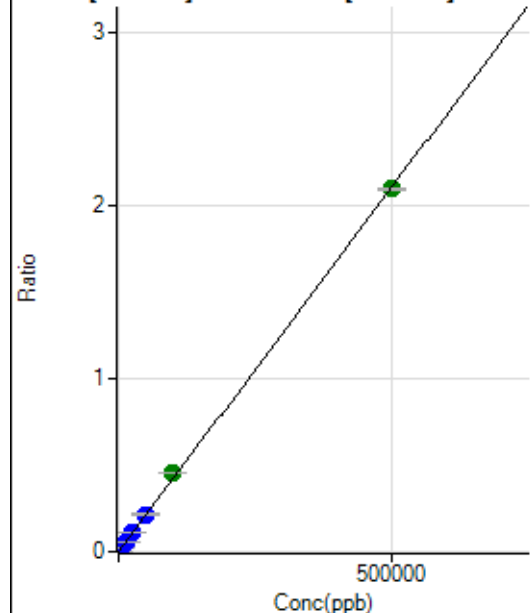
$$R = 1.0000$$

$$DL = 14.31$$

$$BEC = 262.5$$

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	97.49	0.0000	P	5.6
2	☐	500.000	450.348	7591.90	0.0019	P	0.5
3	☐	5000.000	5697.249	88199.77	0.0240	P	12.4
4	☐	12500.000	13155.344	215110.28	0.0553	P	1.9
5	☐	25000.000	26126.755	414777.54	0.1098	P	1.6
6	☐	50000.000	51424.067	822436.16	0.2160	P	1.0
7	☐	100000.00	107825.88	1702599.68	0.4529	A	1.5
8	☐	500000.00	498212.77	8002916.00	2.0925	A	0.7

$$y = 4.1999\text{E-}006 * x + 2.4087\text{E-}005$$

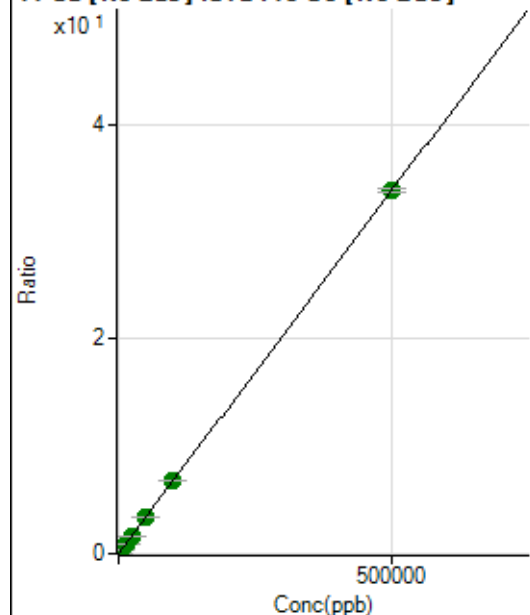
$$R = 0.9999$$

$$DL = 0.9621$$

$$BEC = 5.735$$

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	10958.65	0.0027	P	7.9
2	☐	500.000	449.389	131199.16	0.0331	P	1.1
3	☐	5000.000	5517.688	1385249.55	0.3759	A	11.1
4	☐	12500.000	12599.597	3327215.17	0.8548	A	1.2
5	☐	25000.000	24963.212	6392080.63	1.6910	A	0.8
6	☐	50000.000	49682.579	12802390.76	3.3627	A	1.5
7	☐	100000.00	100769.90	25632859.26	6.8178	A	1.2
8	☐	500000.00	499871.98	129295673.2	33.8089	A	0.9

$$y = 6.7630\text{E-}005 * x + 0.0027$$

$$R = 1.0000$$

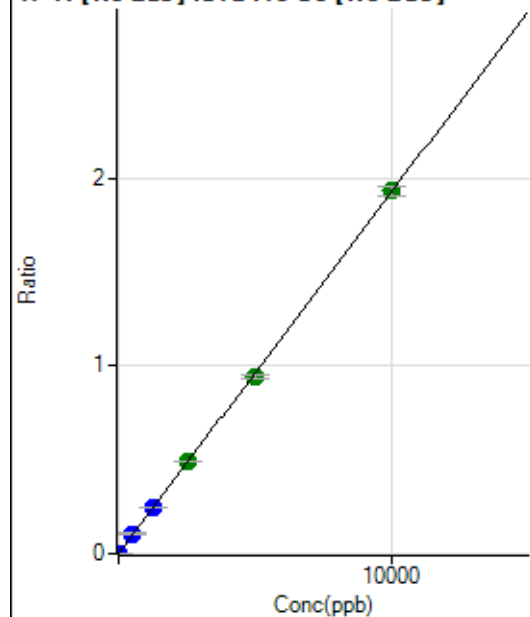
$$DL = 9.542$$

$$BEC = 40.12$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	91.67	0.0000	P	23.9
2	☐	5.000	4.718	3692.23	0.0009	P	1.8
3	☐	500.000	552.203	391771.75	0.1065	P	13.1
4	☐	1250.000	1280.338	960548.67	0.2468	P	1.2
5	☐	2500.000	2537.513	1848552.73	0.4891	A	0.7
6	☐	5000.000	4901.408	3596418.40	0.9447	A	2.8
7	☐	10000.000	10033.515	7269072.12	1.9339	A	2.8
8	☐			4334.10	0.0011	P	5.0

$$y = 1.9274\text{E-}004 * x + 2.2283\text{E-}005$$

$$R = 0.9999$$

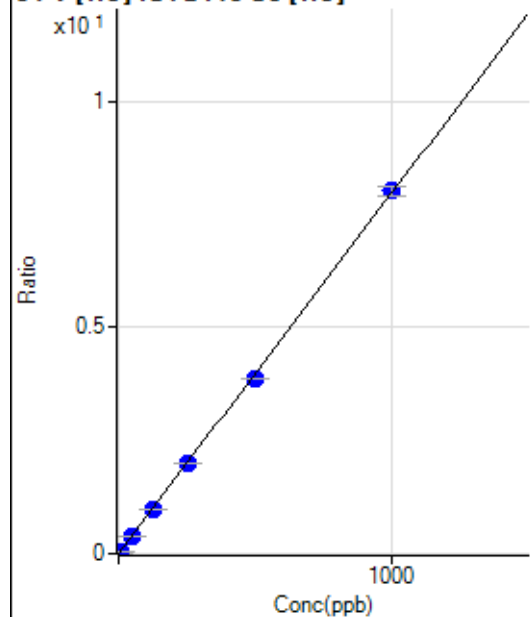
$$DL = 0.08276$$

$$BEC = 0.1156$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3.33	0.0000	P	100.
2	☐	5.000	4.801	4753.06	0.0382	P	0.9
3	☐	50.000	49.662	48795.23	0.3954	P	2.2
4	☐	125.000	123.192	119631.49	0.9809	P	0.9
5	☐	250.000	252.052	231978.94	2.0068	P	0.4
6	☐	500.000	485.817	461618.11	3.8680	P	0.4
7	☐	1000.000	1006.822	954541.96	8.0161	P	2.9
8	☐			700.02	0.0057	P	7.0

$$y = 0.0080 * x + 2.6831\text{E-}005$$

$$R = 0.9998$$

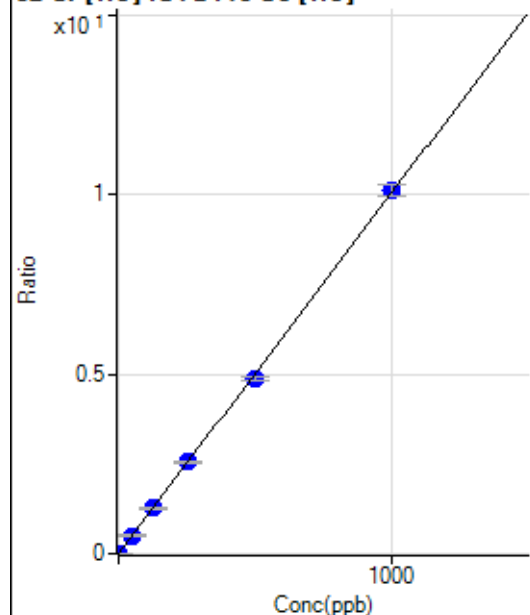
$$DL = 0.01012$$

$$BEC = 0.00337$$

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	476.68	0.0038	P	6.7
2	☐	2.000	1.879	2820.31	0.0227	P	2.2
3	☐	50.000	50.130	62573.31	0.5071	P	3.7
4	☐	125.000	125.716	154427.87	1.2660	P	2.0
5	☐	250.000	254.775	296127.81	2.5617	P	2.4
6	☐	500.000	485.681	582242.61	4.8799	P	1.5
7	☐	1000.000	1005.870	1203000.79	10.1024	P	3.3
8	☐			13272.92	0.1085	P	2.6

$$y = 0.0100 * x + 0.0038$$

$$R = 0.9998$$

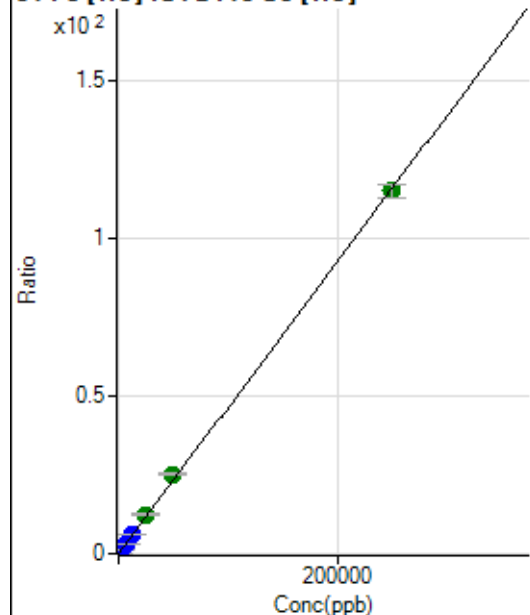
$$DL = 0.0773$$

$$BEC = 0.3818$$

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	475.94	0.0038	P	9.3
2	☐	50.000	53.133	3528.29	0.0284	P	5.7
3	☐	2500.000	2639.258	151148.46	1.2250	P	3.6
4	☐	6250.000	6569.219	371246.99	3.0433	P	1.4
5	☐	12500.000	13319.528	712882.63	6.1667	P	3.4
6	☐	25000.000	26835.854	1481818.46	12.4205	A	1.9
7	☐	50000.000	54389.222	2997330.30	25.1692	A	1.7
8	☐	250000.00	248888.22	14094349.85	115.1622	A	3.4

$$y = 4.6269E-004 * x + 0.0038$$

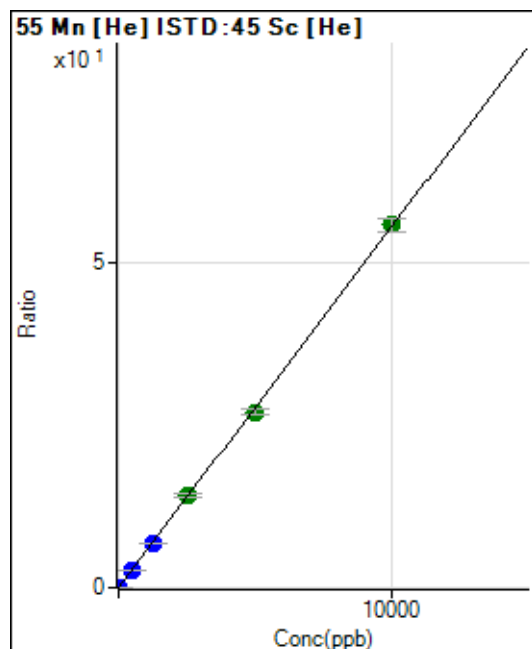
$$R = 0.9998$$

$$DL = 2.303$$

$$BEC = 8.27$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0002	P	0.2
2	☐	1.000	0.997	710.02	0.0057	P	2.5
3	☐	500.000	490.960	335840.79	2.7217	P	3.1
4	☐	1250.000	1216.147	822264.89	6.7417	P	1.2
5	☐	2500.000	2550.031	1634139.85	14.1359	A	2.8
6	☐	5000.000	4872.284	3222041.10	27.0089	A	2.4
7	☐	10000.000	10056.034	6638396.36	55.7442	A	3.5
8	☐			8628.26	0.0705	P	2.3

$$y = 0.0055 * x + 1.8759E-004$$

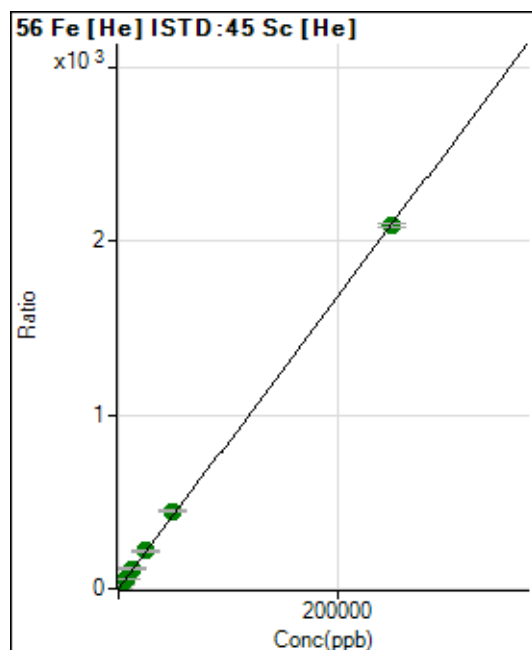
$$R = 0.9999$$

$$DL = 0.0001638$$

$$BEC = 0.03384$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1990.91	0.0160	P	10.8
2	☐	50.000	50.116	54177.18	0.4363	P	3.8
3	☐	2500.000	2762.020	2860420.55	23.1807	A	2.4
4	☐	6250.000	6648.423	6802805.88	55.7754	A	1.4
5	☐	12500.000	13677.854	13262795.44	114.7302	A	3.4
6	☐	25000.000	26041.118	26054264.93	218.4191	A	2.7
7	☐	50000.000	53458.602	53394437.77	448.3657	A	2.6
8	☐	250000.00	249132.69	255712627.9	2.089456	A	1.1

$$y = 0.0084 * x + 0.0160$$

$$R = 0.9999$$

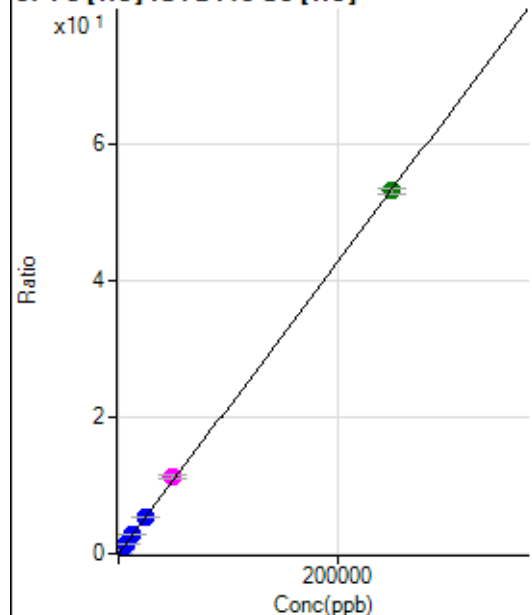
$$DL = 0.6212$$

$$BEC = 1.909$$

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	131.49	0.0011	P	10.5
2	☐	50.000	47.574	1392.69	0.0112	P	12.9
3	☐	2500.000	2625.359	69093.04	0.5599	P	1.6
4	☐	6250.000	6463.438	167931.35	1.3769	P	1.3
5	☐	12500.000	13090.923	322259.71	2.7876	P	3.2
6	☐	25000.000	24888.167	632097.88	5.2988	P	2.3
7	☐	50000.000	52471.784	1330065.15	11.1704	M	5.6
8	☐	250000.00	249480.69	6498565.94	53.1063	A	1.9

$$y = 2.1286E-004 * x + 0.0011$$

R = 0.9999

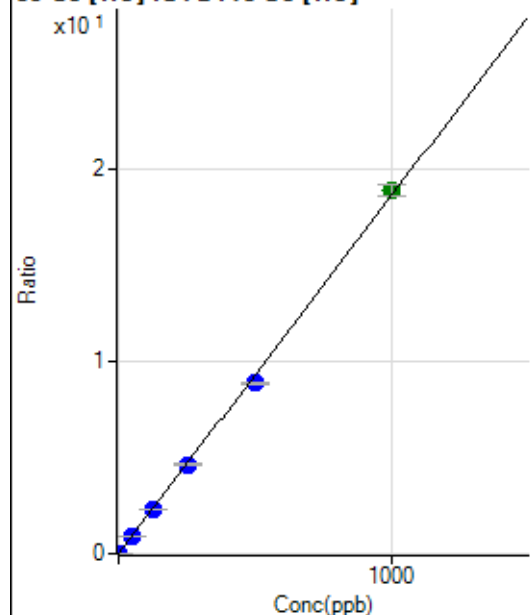
DL = 1.561

BEC = 4.966

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	55.55	0.0004	P	24.3
2	☐	1.000	0.942	2235.76	0.0180	P	3.1
3	☐	50.000	49.421	113569.85	0.9205	P	4.3
4	☐	125.000	122.167	277441.44	2.2747	P	0.5
5	☐	250.000	248.854	535591.22	4.6331	P	2.0
6	☐	500.000	475.202	1055558.25	8.8468	P	1.5
7	☐	1000.000	1013.069	2245852.05	18.8598	A	3.1
8	☐			3580.49	0.0293	P	0.6

$$y = 0.0186 * x + 4.4675E-004$$

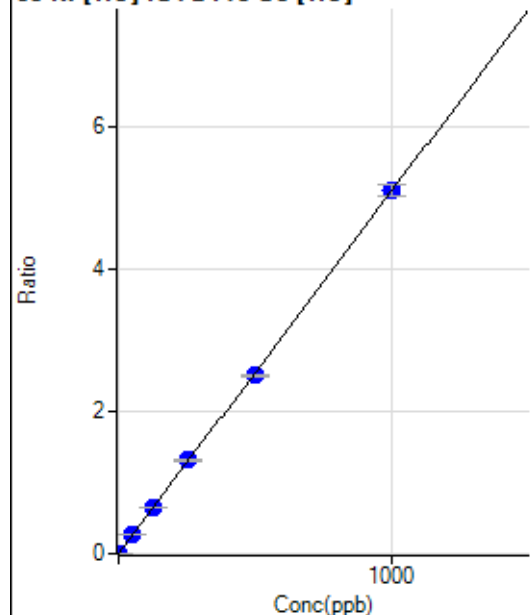
R = 0.9995

DL = 0.01751

BEC = 0.024

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	24.45	0.0002	P	15.9
2	☐	1.000	1.056	690.03	0.0056	P	13.1
3	☐	50.000	52.176	32771.18	0.2656	P	3.6
4	☐	125.000	127.419	79077.52	0.6483	P	0.9
5	☐	250.000	258.692	152138.51	1.3161	P	2.1
6	☐	500.000	492.441	298914.02	2.5050	P	0.9
7	☐	1000.000	1001.195	606439.30	5.0929	P	3.1
8	☐			2402.45	0.0196	P	3.5

$$y = 0.0051 * x + 1.9660E-004$$

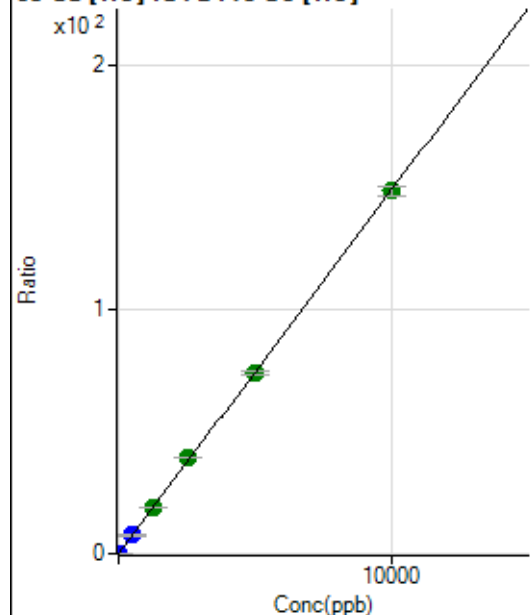
$$R = 0.9999$$

$$DL = 0.01842$$

$$BEC = 0.03865$$

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	355.56	0.0029	P	17.3
2	☐	2.000	1.957	3971.71	0.0320	P	1.5
3	☐	500.000	507.384	931747.49	7.5508	P	2.4
4	☐	1250.000	1271.401	2307835.05	18.9165	A	1.7
5	☐	2500.000	2634.059	4530020.07	39.1878	A	0.8
6	☐	5000.000	4971.970	8822996.75	73.9672	A	2.7
7	☐	10000.000	9977.456	17674217.24	148.4301	A	2.4
8	☐			17151.59	0.1401	P	0.3

$$y = 0.0149 * x + 0.0029$$

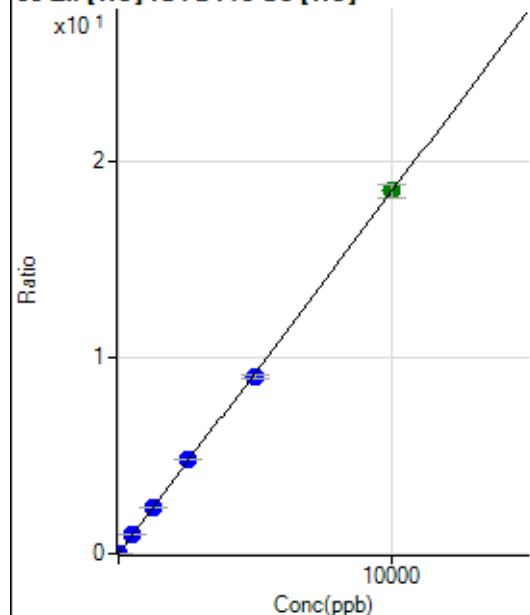
$$R = 0.9999$$

$$DL = 0.09959$$

$$BEC = 0.1922$$

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	114.45	0.0009	P	10.3
2	☐	2.000	1.974	566.68	0.0046	P	8.7
3	☐	500.000	517.819	117980.19	0.9561	P	1.9
4	☐	1250.000	1288.564	290027.40	2.3778	P	1.3
5	☐	2500.000	2607.045	556000.55	4.8098	P	1.5
6	☐	5000.000	4882.597	1074669.73	9.0072	P	1.5
7	☐	10000.000	10026.229	2202330.89	18.4949	A	4.0
8	☐			6253.66	0.0511	P	3.5

$$y = 0.0018 * x + 9.2032E-004$$

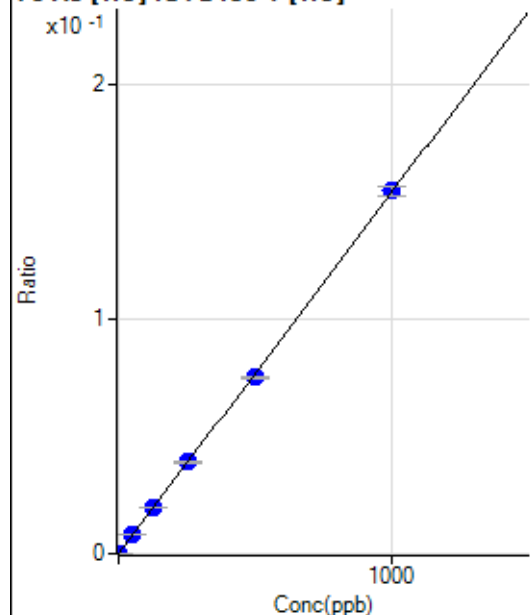
$$R = 0.9998$$

$$DL = 0.1543$$

$$BEC = 0.4989$$

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	2.67	0.0000	P	20.7
2	☐	1.000	1.022	135.35	0.0002	P	9.0
3	☐	50.000	51.221	6613.89	0.0079	P	1.0
4	☐	125.000	127.353	16180.56	0.0196	P	1.8
5	☐	250.000	253.320	31198.51	0.0390	P	3.8
6	☐	500.000	487.561	61647.25	0.0751	P	0.6
7	☐	1000.000	1005.034	126188.13	0.1548	P	2.3
8	☐			37.67	0.0000	P	17.5

$$y = 1.5398E-004 * x + 3.2194E-006$$

$$R = 0.9999$$

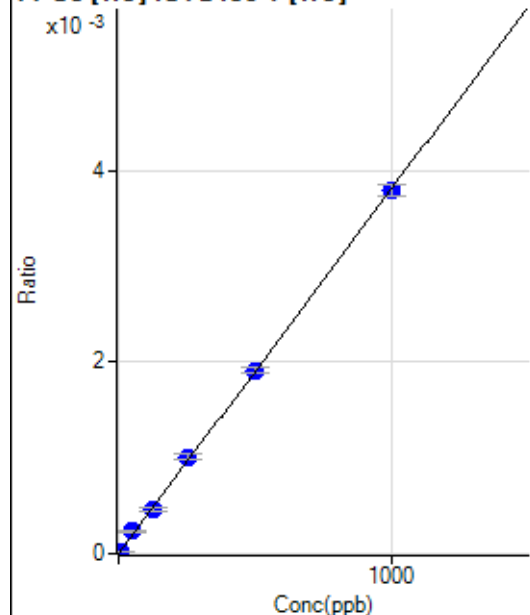
$$DL = 0.01298$$

$$BEC = 0.02091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	4.889	15.55	0.0000	P	31.0
3	☐	50.000	60.935	194.45	0.0002	P	13.7
4	☐	125.000	120.892	380.01	0.0005	P	8.0
5	☐	250.000	264.776	806.70	0.0010	P	5.5
6	☐	500.000	503.312	1573.44	0.0019	P	3.4
7	☐	1000.000	994.617	3089.26	0.0038	P	3.2
8	☐			3.33	0.0000	P	100.

$$y = 3.8093\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

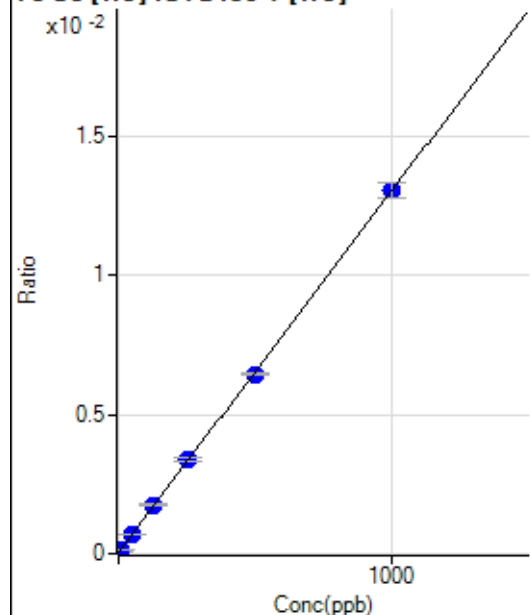
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	43.34	0.0001	P	9.7
2	☐	5.000	5.020	99.01	0.0001	P	9.2
3	☐	50.000	51.451	602.41	0.0007	P	1.1
4	☐	125.000	129.526	1426.89	0.0017	P	3.6
5	☐	250.000	258.191	2716.21	0.0034	P	3.4
6	☐	500.000	492.803	5282.20	0.0064	P	1.6
7	☐	1000.000	1000.912	10609.07	0.0130	P	4.4
8	☐			49.01	0.0001	P	15.5

$$y = 1.2949\text{E-}005 * x + 5.2405\text{E-}005$$

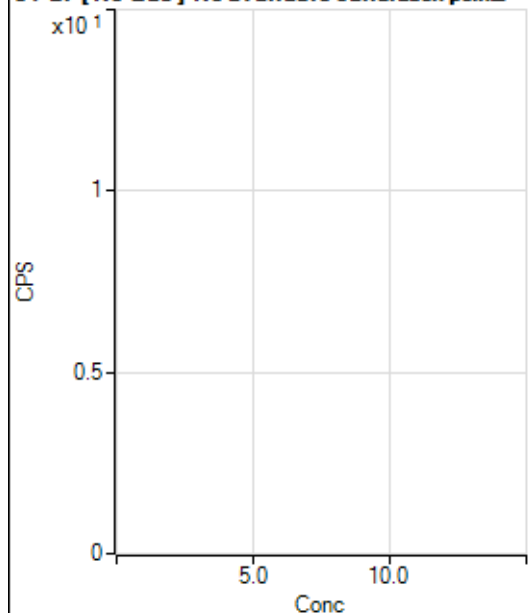
$$R = 0.9999$$

$$DL = 1.173$$

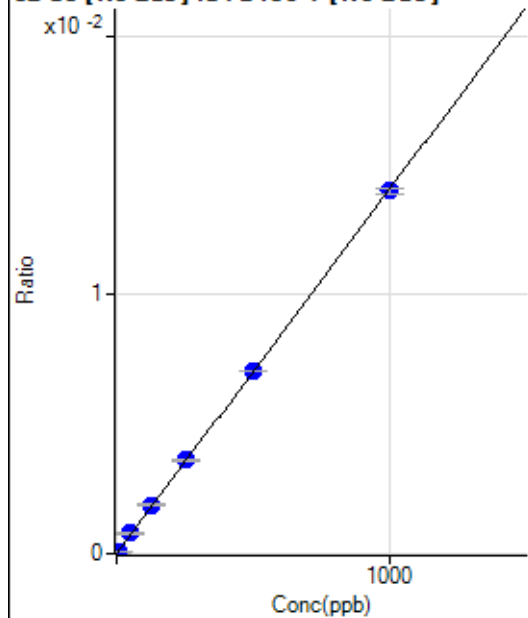
$$BEC = 4.047$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22454.44		P	4.1
2	☐			22484.54		P	0.8
3	☐			22481.26		P	4.9
4	☐			20526.40		P	1.0
5	☐			20693.43		P	3.7
6	☐			19888.08		P	1.1
7	☐			20853.64		P	2.0
8	☐			21037.43		P	6.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12.50	0.0000	P	141.
2	☐	5.000	4.902	553.29	0.0001	P	9.8
3	☐	50.000	56.704	5919.82	0.0008	P	8.0
4	☐	125.000	134.089	14612.74	0.0019	P	3.7
5	☐	250.000	256.111	27781.95	0.0036	P	1.2
6	☐	500.000	502.537	54909.95	0.0071	P	0.3
7	☐	1000.000	995.733	108490.33	0.0140	P	1.7
8	☐			108.32	0.0000	P	19.1

$$y = 1.4081\text{E-}005 * x + 1.5226\text{E-}006$$

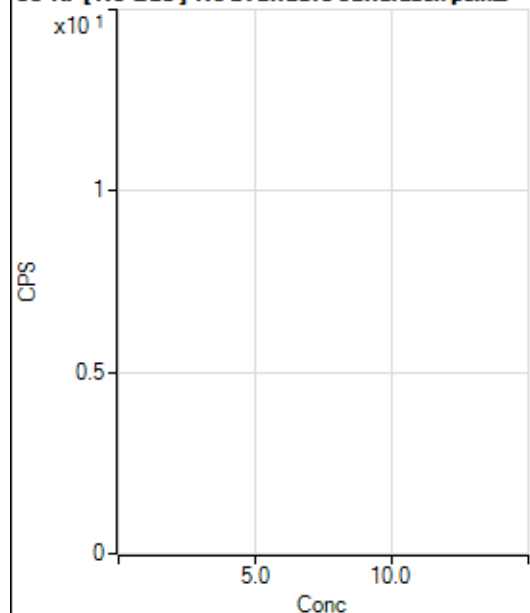
$$R = 0.9999$$

$$DL = 0.4577$$

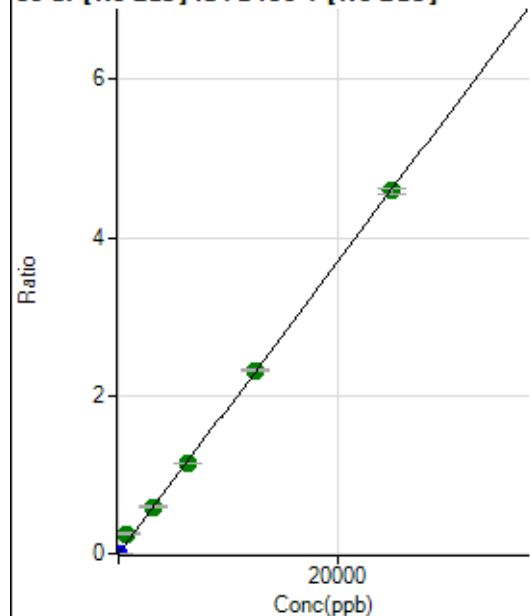
$$BEC = 0.1081$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			287.05		P	5.0
2	☐			294.97		P	6.2
3	☐			311.22		P	9.4
4	☐			286.22		P	2.9
5	☐			285.80		P	0.7
6	☐			278.30		P	5.0
7	☐			274.14		P	3.7
8	☐			294.14		P	6.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	491.69	0.0001	P	16.3
2	☐	1.000	0.886	1761.27	0.0002	P	5.2
3	☐	625.000	1370.178	1862042.49	0.2522	A	11.6
4	☐	3125.000	3229.716	4598194.76	0.5944	A	1.9
5	☐	6250.000	6246.902	8852508.62	1.1496	A	0.4
6	☐	12500.000	12571.480	17947681.48	2.3133	A	1.1
7	☐	25000.000	24933.316	35497860.52	4.5880	A	1.9
8	☐			9878.81	0.0012	P	5.0

$$y = 1.8401E-004 * x + 6.1355E-005$$

$$R = 0.9996$$

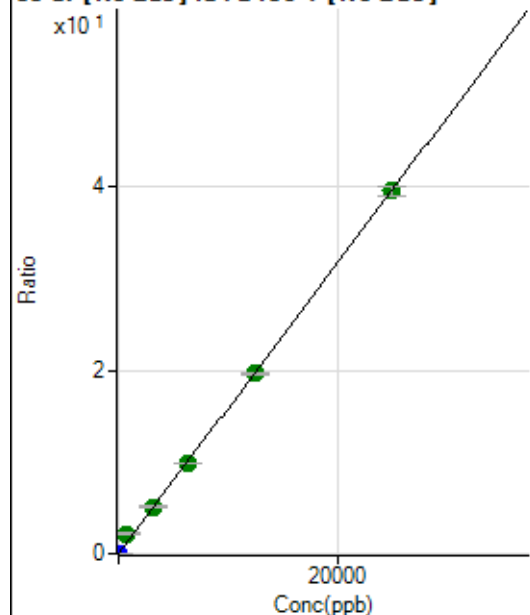
$$DL = 0.1628$$

$$BEC = 0.3334$$

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	269.46	0.0000	P	54.6
2	☐	1.000	0.941	11974.88	0.0015	P	1.7
3	☐	625.000	1339.415	15694374.48	2.1224	A	9.1
4	☐	3125.000	3211.992	39366171.71	5.0895	A	2.8
5	☐	6250.000	6231.201	76031558.64	9.8735	A	1.1
6	☐	12500.000	12449.682	153043677.0	19.7269	A	1.1
7	☐	25000.000	25001.124	306471459.6	39.6150	A	2.7
8	☐			81751.97	0.0096	P	5.3

$$y = 0.0016 * x + 3.4229E-005$$

$$R = 0.9996$$

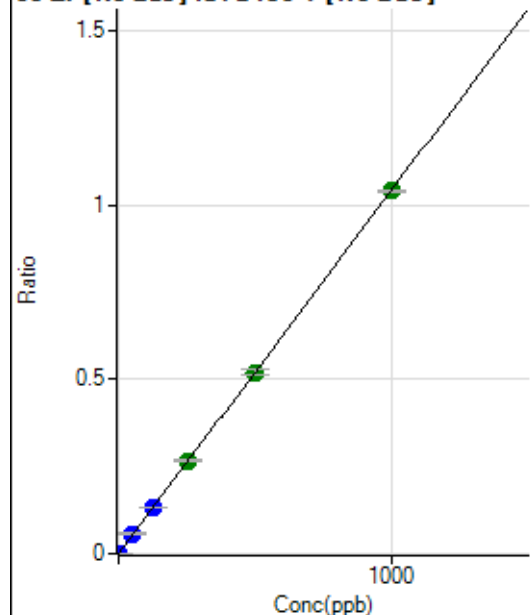
$$DL = 0.0354$$

$$BEC = 0.0216$$

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	505.58	0.0001	P	9.0
2	☐	1.000	0.997	8644.59	0.0011	P	4.9
3	☐	50.000	54.039	417273.13	0.0564	P	9.2
4	☐	125.000	127.046	1026172.00	0.1326	P	1.3
5	☐	250.000	255.979	2057300.19	0.2672	A	1.1
6	☐	500.000	499.588	4044272.09	0.5213	A	2.3
7	☐	1000.000	998.253	8060939.50	1.0416	A	0.5
8	☐			3950.66	0.0005	P	4.9

$$y = 0.0010 * x + 6.1904E-005$$

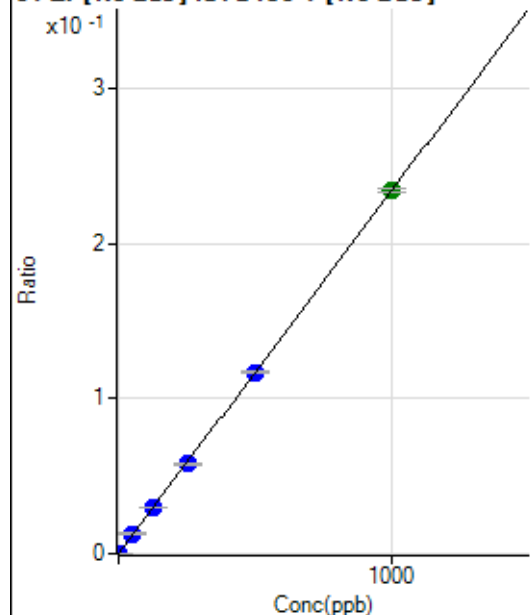
$$R = 1.0000$$

$$DL = 0.01594$$

$$BEC = 0.05933$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	94.45	0.0000	P	46.4
2	☐	1.000	0.948	1833.50	0.0002	P	5.4
3	☐	50.000	53.200	91948.42	0.0124	P	10.8
4	☐	125.000	126.519	228856.09	0.0296	P	2.4
5	☐	250.000	248.125	446684.68	0.0580	P	2.0
6	☐	500.000	500.341	907407.87	0.1170	P	0.4
7	☐	1000.000	999.948	1808703.97	0.2337	A	1.2
8	☐			816.72	0.0001	P	8.6

$$y = 2.3374\text{E-}004 * x + 1.1838\text{E-}005$$

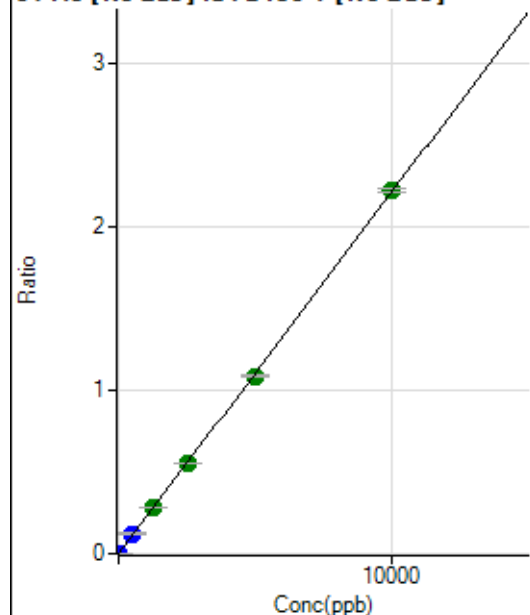
$$R = 1.0000$$

$$DL = 0.0705$$

$$BEC = 0.05064$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	216.67	0.0000	P	8.5
2	☐	5.000	5.417	9603.61	0.0012	P	5.6
3	☐	500.000	550.443	898414.02	0.1216	P	9.8
4	☐	1250.000	1282.019	2189652.28	0.2831	A	3.3
5	☐	2500.000	2500.118	4251500.79	0.5521	A	0.9
6	☐	5000.000	4903.712	8400489.60	1.0829	A	1.2
7	☐	10000.000	10041.590	17159672.60	2.2174	A	1.0
8	☐			6404.45	0.0007	P	8.5

$$y = 2.2082\text{E-}004 * x + 2.6535\text{E-}005$$

$$R = 0.9999$$

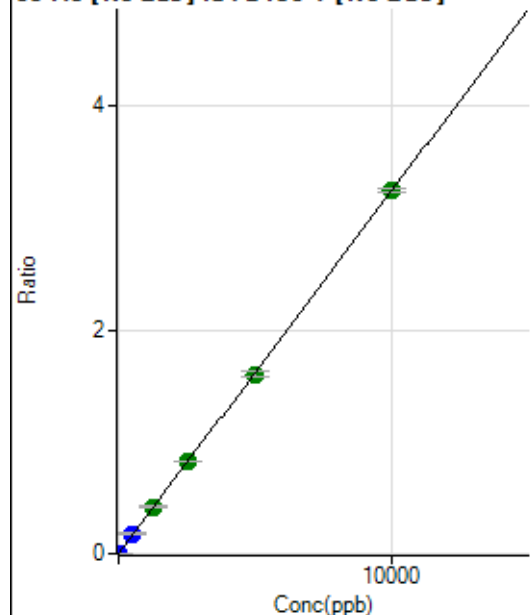
$$DL = 0.03065$$

$$BEC = 0.1202$$

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	22.22	0.0000	P	65.0
2	☐	5.000	4.527	11532.82	0.0015	P	3.7
3	☐	500.000	546.277	1307672.29	0.1770	P	10.1
4	☐	1250.000	1292.989	3239391.39	0.4189	A	3.6
5	☐	2500.000	2546.340	6352706.61	0.8249	A	0.9
6	☐	5000.000	4956.455	12456337.86	1.6057	A	2.7
7	☐	10000.000	10002.500	25076627.99	3.2405	A	0.9
8	☐			8194.32	0.0010	P	6.6

$$y = 3.2397\text{E-}004 * x + 2.8981\text{E-}006$$

$$R = 1.0000$$

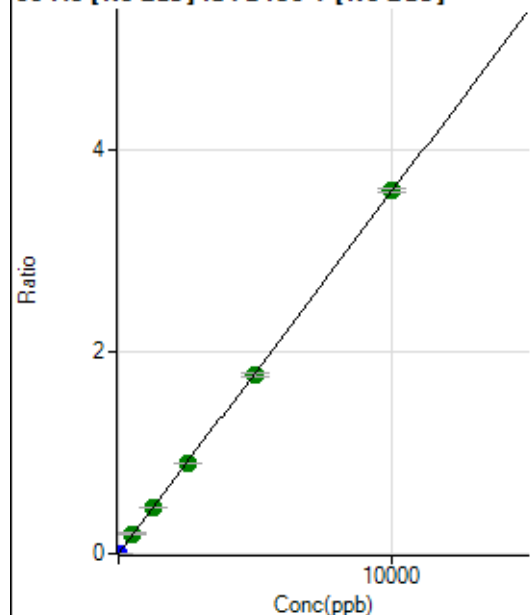
$$DL = 0.01745$$

$$BEC = 0.008945$$

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	122.22	0.0000	P	31.1
2	☐	5.000	4.682	13276.15	0.0017	P	1.8
3	☐	500.000	540.174	1429263.22	0.1934	A	9.2
4	☐	1250.000	1275.508	3532124.04	0.4565	A	1.8
5	☐	2500.000	2487.310	6855772.38	0.8903	A	0.8
6	☐	5000.000	4947.355	13736196.31	1.7708	A	2.9
7	☐	10000.000	10024.298	27761890.90	3.5879	A	1.2
8	☐			13470.76	0.0016	P	7.0

$$y = 3.5792\text{E-}004 * x + 1.5358\text{E-}005$$

$$R = 1.0000$$

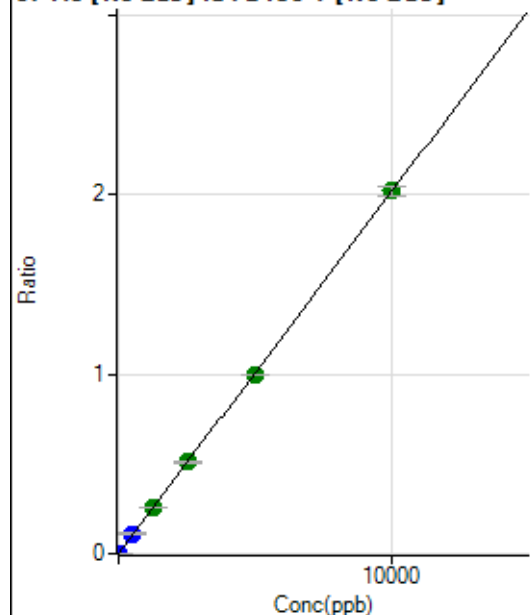
$$DL = 0.04008$$

$$BEC = 0.04291$$

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	5.55	0.0000	P	86.9
2	☐	5.000	4.629	7332.68	0.0009	P	4.8
3	☐	500.000	549.742	819271.06	0.1109	P	10.1
4	☐	1250.000	1271.763	1984331.21	0.2565	A	3.3
5	☐	2500.000	2528.139	3926540.11	0.5099	A	1.4
6	☐	5000.000	4931.768	7717026.13	0.9947	A	0.4
7	☐	10000.000	10021.874	15638413.72	2.0213	A	2.5
8	☐			5209.47	0.0006	P	9.5

$$y = 2.0169\text{E-}004 * x + 7.3723\text{E-}007$$

$$R = 0.9999$$

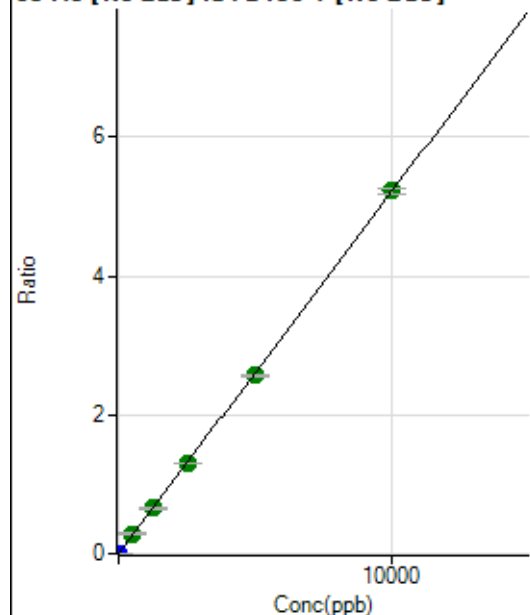
$$DL = 0.00953$$

$$BEC = 0.003655$$

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	61.11	0.0000	P	32.1
2	☐	5.000	4.614	18913.37	0.0024	P	2.2
3	☐	500.000	548.623	2110943.69	0.2857	A	10.0
4	☐	1250.000	1274.200	5130531.15	0.6634	A	4.1
5	☐	2500.000	2499.908	10023270.19	1.3016	A	1.2
6	☐	5000.000	4925.719	19896261.04	2.5647	A	0.7
7	☐	10000.000	10031.708	40411704.03	5.2232	A	1.7
8	☐			12939.82	0.0015	P	4.0

$$y = 5.2067\text{E-}004 * x + 7.3449\text{E-}006$$

$$R = 0.9999$$

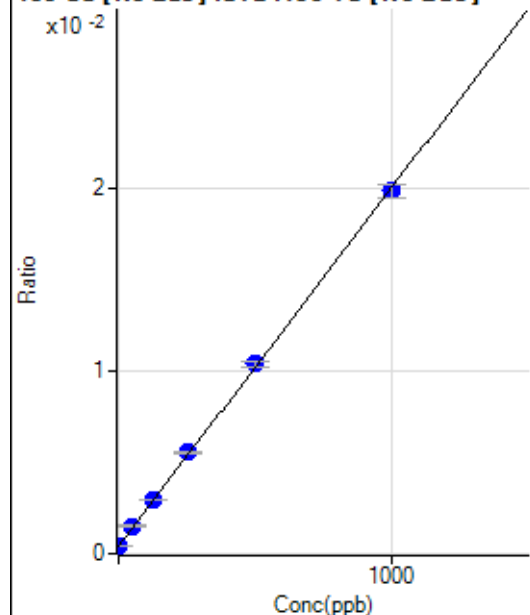
$$DL = 0.01359$$

$$BEC = 0.01411$$

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	2864.27	0.0004	P	4.1
2	☐	1.000	0.480	2864.27	0.0004	P	5.2
3	☐	50.000	56.962	9803.76	0.0015	P	5.4
4	☐	125.000	130.736	20485.24	0.0030	P	1.7
5	☐	250.000	261.970	37454.30	0.0055	P	2.0
6	☐	500.000	508.124	71885.73	0.0104	P	2.4
7	☐	1000.000	991.881	140153.83	0.0198	P	3.8
8	☐			3208.79	0.0005	P	3.7

$$y = 1.9590\text{E-}005 * x + 4.0537\text{E-}004$$

$$R = 0.9999$$

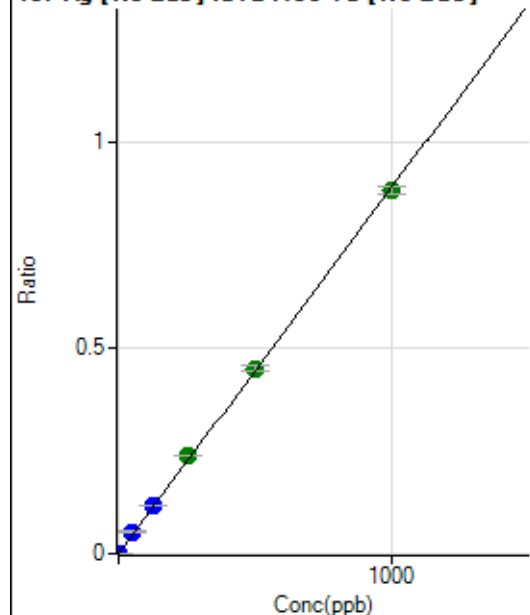
$$DL = 2.563$$

$$BEC = 20.69$$

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	144.45	0.0000	P	11.2
2	☐	1.000	1.043	6540.63	0.0009	P	1.5
3	☐	50.000	57.926	331200.64	0.0515	P	9.4
4	☐	125.000	132.119	811147.36	0.1174	P	0.8
5	☐	250.000	267.539	1608408.89	0.2378	A	1.0
6	☐	500.000	506.622	3125001.52	0.4503	A	2.2
7	☐	1000.000	991.018	6224459.56	0.8808	A	2.3
8	☐			2408.62	0.0003	P	3.6

$$y = 8.8873\text{E-}004 * x + 2.0638\text{E-}005$$

$$R = 0.9998$$

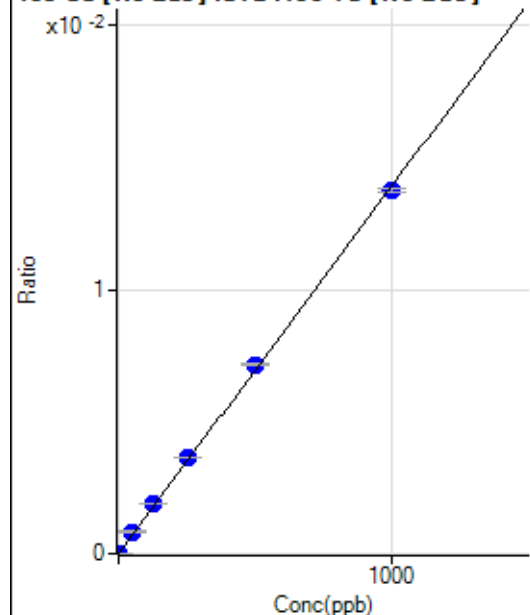
$$DL = 0.007799$$

$$BEC = 0.02322$$

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	19.45	0.0000	P	27.4
2	☐	1.000	0.944	109.73	0.0000	P	10.9
3	☐	50.000	59.276	5316.36	0.0008	P	10.6
4	☐	125.000	135.825	13066.04	0.0019	P	0.6
5	☐	250.000	261.753	24641.64	0.0036	P	1.8
6	☐	500.000	514.262	49654.53	0.0072	P	1.4
7	☐	1000.000	988.114	97166.32	0.0137	P	1.2
8	☐			165.28	0.0000	P	5.4

$$y = 1.3908\text{E-}005 * x + 2.7826\text{E-}006$$

$$R = 0.9997$$

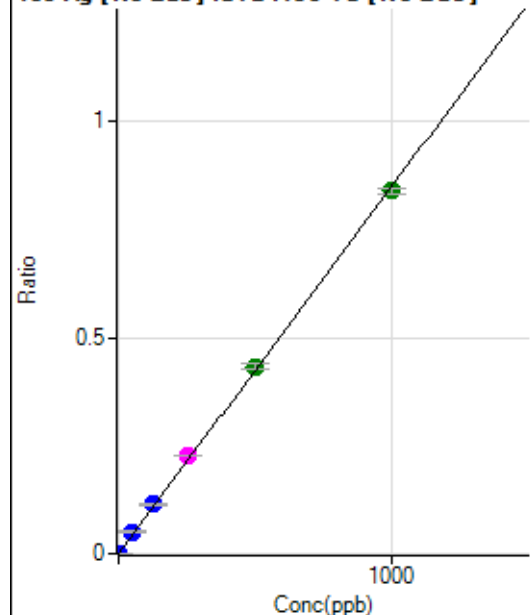
$$DL = 0.1643$$

$$BEC = 0.2001$$

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	113.89	0.0000	P	39.6
2	☐	1.000	1.036	6184.85	0.0009	P	7.2
3	☐	50.000	58.624	320015.69	0.0498	P	11.8
4	☐	125.000	133.850	785475.20	0.1137	P	1.2
5	☐	250.000	266.955	1534338.26	0.2268	M	1.2
6	☐	500.000	510.883	3012005.45	0.4341	A	2.5
7	☐	1000.000	988.782	5938506.51	0.8401	A	1.4
8	☐			2480.85	0.0004	P	1.6

$$y = 8.4963\text{E-}004 * x + 1.6403\text{E-}005$$

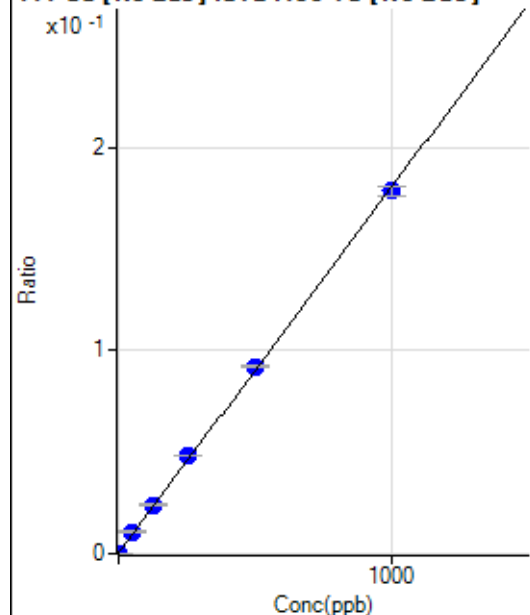
$$R = 0.9997$$

$$DL = 0.02296$$

$$BEC = 0.01931$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2003.88	0.0003	P	4.5
2	☐	1.000	1.005	3208.82	0.0005	P	1.9
3	☐	50.000	58.173	69238.92	0.0108	P	10.9
4	☐	125.000	131.857	166154.77	0.0241	P	1.4
5	☐	250.000	267.079	327681.19	0.0484	P	0.4
6	☐	500.000	508.877	638781.74	0.0920	P	1.1
7	☐	1000.000	990.026	1263608.03	0.1788	P	2.4
8	☐			4001.44	0.0006	P	1.3

$$y = 1.8032\text{E-}004 * x + 2.8351\text{E-}004$$

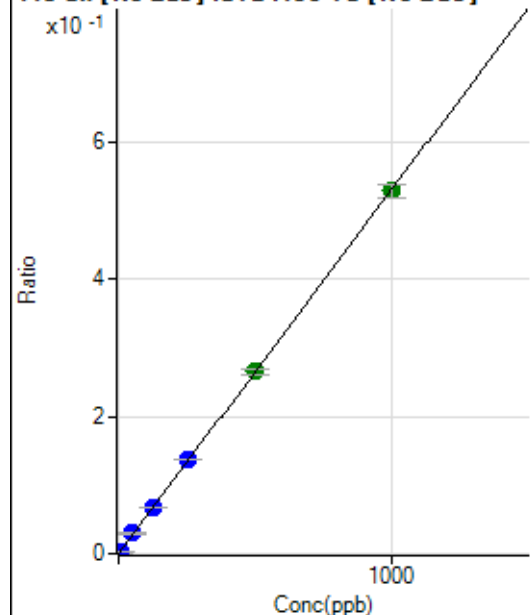
$$R = 0.9998$$

$$DL = 0.2099$$

$$BEC = 1.572$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	358.35	0.0001	P	13.4
2	☐	5.000	4.798	17931.60	0.0026	P	2.9
3	☐	50.000	56.026	191479.67	0.0298	P	10.7
4	☐	125.000	126.838	465313.03	0.0674	P	2.4
5	☐	250.000	257.730	925731.53	0.1369	P	1.0
6	☐	500.000	500.642	1844409.83	0.2658	A	2.7
7	☐	1000.000	997.217	3740648.87	0.5294	A	3.5
8	☐			5826.40	0.0008	P	1.4

$$y = 5.3082\text{E-}004 * x + 5.1258\text{E-}005$$

$$R = 1.0000$$

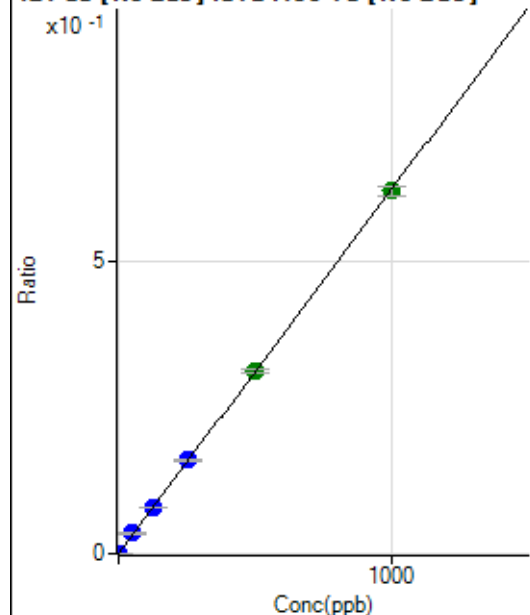
$$DL = 0.0389$$

$$BEC = 0.09656$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	95.9
2	☐	2.000	1.990	8569.58	0.0012	P	3.9
3	☐	50.000	56.047	223990.00	0.0349	P	11.3
4	☐	125.000	127.546	547862.47	0.0793	P	1.5
5	☐	250.000	257.622	1083737.88	0.1602	P	1.7
6	☐	500.000	502.402	2168258.21	0.3125	A	2.0
7	☐	1000.000	996.273	4378549.32	0.6196	A	2.8
8	☐			2750.38	0.0004	P	4.1

$$y = 6.2192\text{E-}004 * x + 4.4279\text{E-}006$$

$$R = 1.0000$$

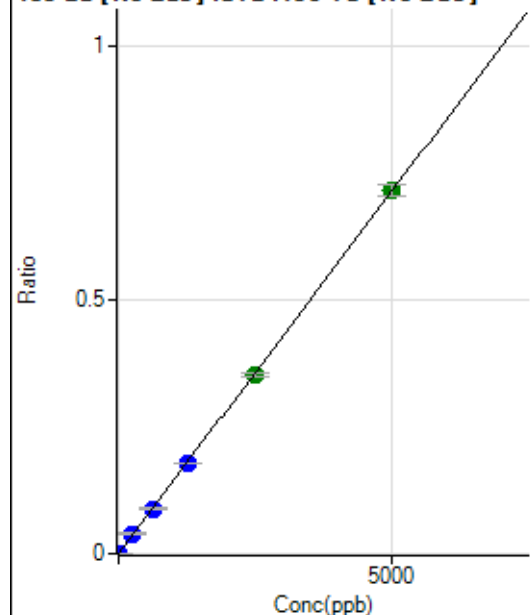
$$DL = 0.02048$$

$$BEC = 0.00712$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.33	0.0000	P	30.6
2	☐	10.000	9.475	9375.73	0.0014	P	1.1
3	☐	250.000	269.829	247654.41	0.0385	P	11.6
4	☐	625.000	623.096	614696.52	0.0890	P	1.1
5	☐	1250.000	1250.778	1208563.25	0.1787	P	1.0
6	☐	2500.000	2476.682	2455001.01	0.3538	A	2.1
7	☐	5000.000	5010.712	5057816.00	0.7158	A	3.2
8	☐			5056.66	0.0007	P	3.3

$$y = 1.4285\text{E-}004 * x + 4.8103\text{E-}006$$

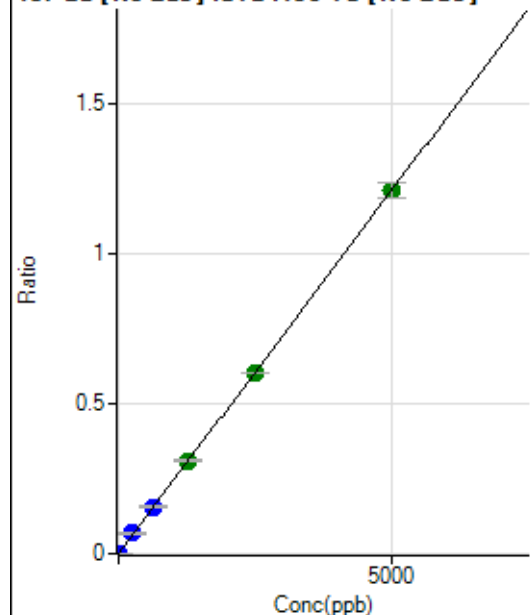
$$R = 1.0000$$

$$DL = 0.03088$$

$$BEC = 0.03367$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11.11	0.0000	P	45.2
2	☐	10.000	9.572	15968.14	0.0023	P	3.6
3	☐	250.000	282.086	437844.91	0.0681	P	11.6
4	☐	625.000	648.462	1081909.77	0.1567	P	0.6
5	☐	1250.000	1279.285	2090349.65	0.3090	A	2.0
6	☐	2500.000	2484.223	4165250.70	0.6001	A	0.2
7	☐	5000.000	4996.031	8526545.51	1.2069	A	4.3
8	☐			8539.08	0.0012	P	1.7

$$y = 2.4157E-004 * x + 1.5917E-006$$

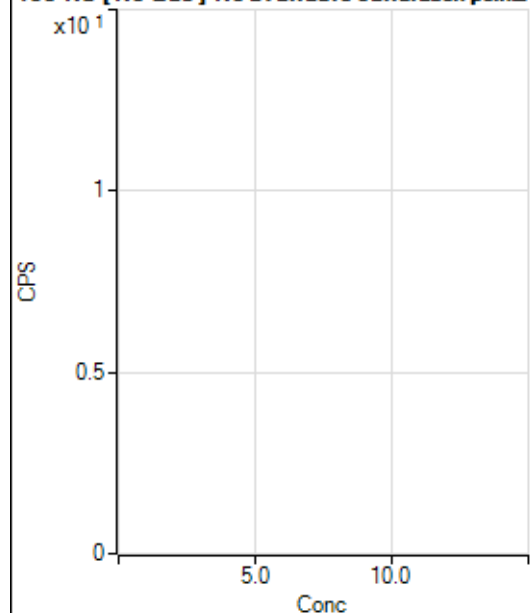
$$R = 1.0000$$

$$DL = 0.00893$$

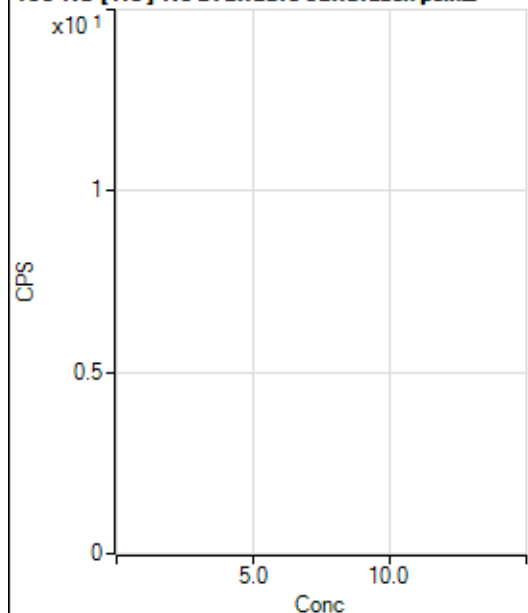
$$BEC = 0.006589$$

Weight: <None>

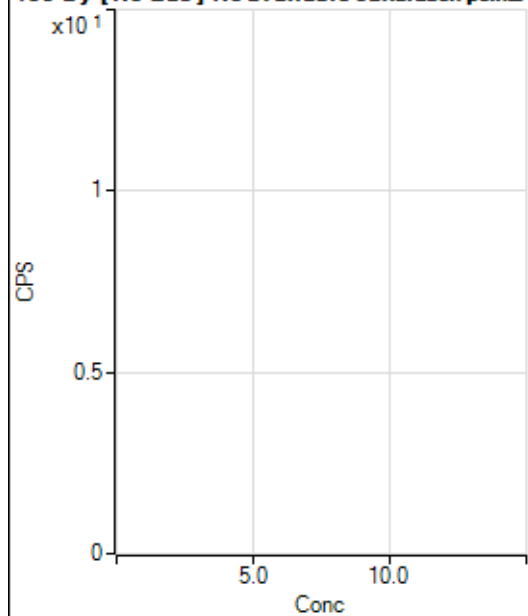
Min Conc: 0

150 Nd [No Gas] No available calibration points

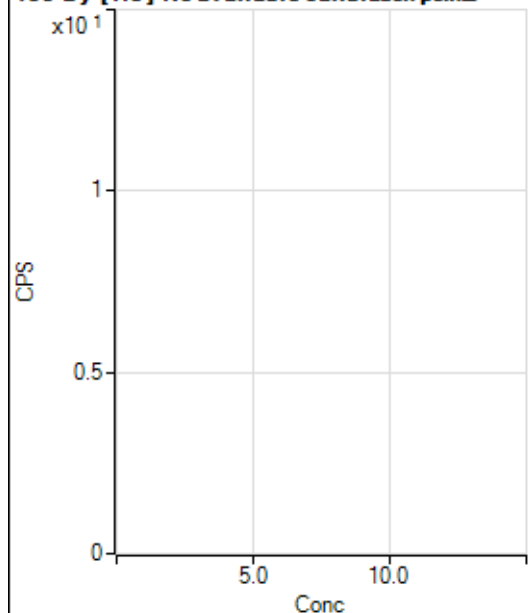
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			8.89		P	43.3
2	☐			4.45		P	86.6
3	☐			33.33		P	40.0
4	☐			86.67		P	26.6
5	☐			120.00		P	43.4
6	☐			220.01		P	13.9
7	☐			440.02		P	6.6
8	☐			44.44		P	48.2

150 Nd [He] No available calibration points

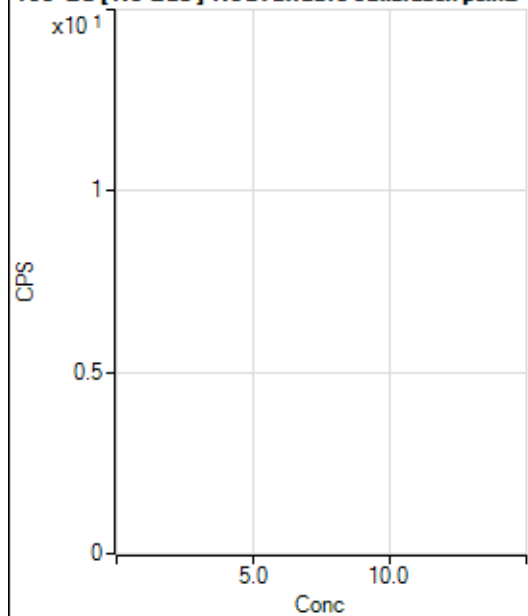
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			4.44		P	43.4
4	☐			2.22		P	86.6
5	☐			5.55		P	124.
6	☐			11.11		P	17.3
7	☐			21.11		P	32.9
8	☐			13.33		P	25.0

156 Dy [No Gas] No available calibration points

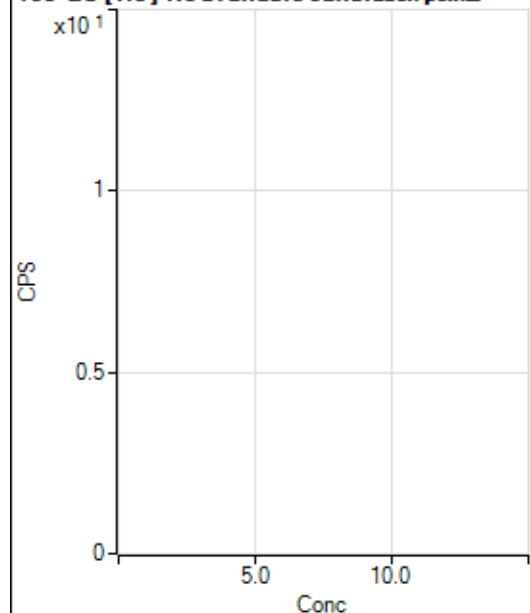
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			11.11		P	114.
3	☐			27.78		P	45.8
4	☐			52.78		P	55.5
5	☐			66.67		P	57.3
6	☐			172.23		P	19.6
7	☐			325.01		P	9.2
8	☐			766.71		P	1.9

156 Dy [He] No available calibration points

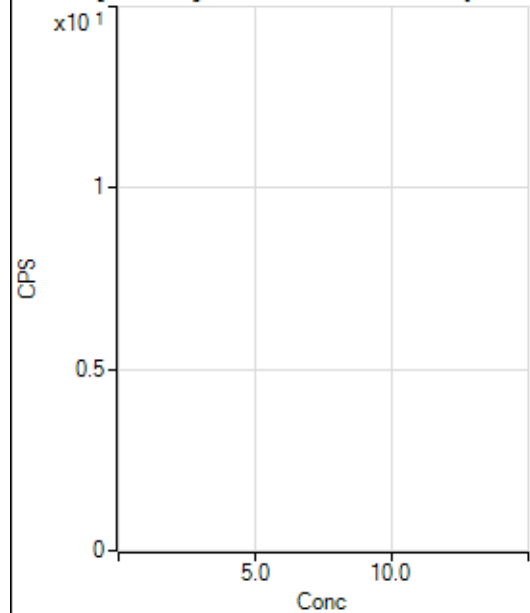
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			5.56		P	91.6
3	☐			10.00		P	33.3
4	☐			13.33		P	50.0
5	☐			33.33		P	26.4
6	☐			64.45		P	26.0
7	☐			96.67		P	3.5
8	☐			288.90		P	4.1

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

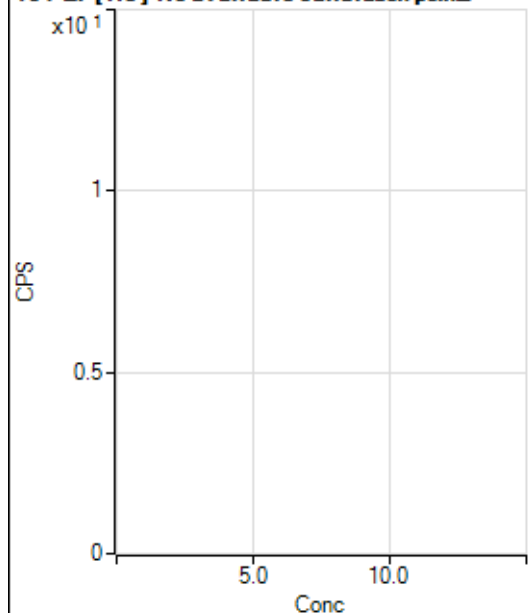
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			47.22		P	27.0
2	☐			41.67		P	34.6
3	☐			47.22		P	44.4
4	☐			77.78		P	27.0
5	☐			105.56		P	22.8
6	☐			155.56		P	29.5
7	☐			230.57		P	11.6
8	☐			597.26		P	11.4

160 Gd [He] No available calibration points

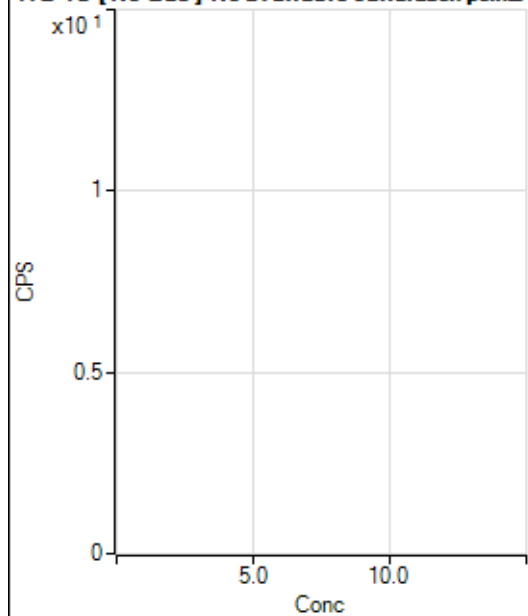
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			93.33		P	3.6
2	☐			100.00		P	28.9
3	☐			103.33		P	12.9
4	☐			113.33		P	13.5
5	☐			105.55		P	3.6
6	☐			138.89		P	10.8
7	☐			218.89		P	20.3
8	☐			374.45		P	4.4

164 Er [No Gas] No available calibration points

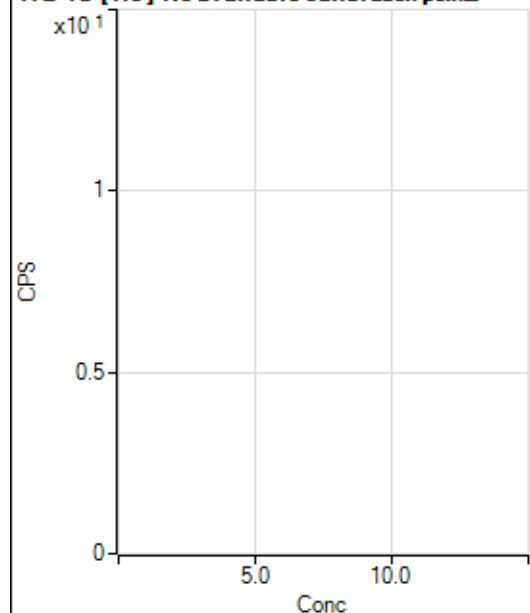
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	13.3
2	☐			52.78		P	36.5
3	☐			44.45		P	28.7
4	☐			38.89		P	44.6
5	☐			55.56		P	48.2
6	☐			55.56		P	17.3
7	☐			58.33		P	57.1
8	☐			88.89		P	14.3

164 Er [He] No available calibration points

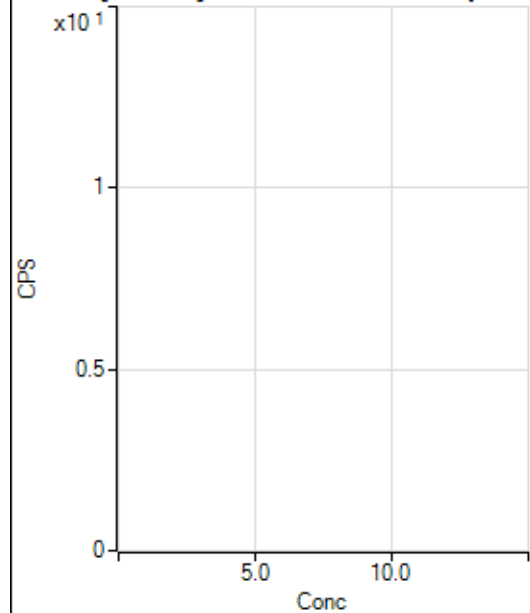
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.33		P	24.7
2	☐			15.56		P	53.9
3	☐			15.56		P	81.1
4	☐			28.89		P	17.6
5	☐			15.56		P	12.4
6	☐			25.56		P	58.8
7	☐			23.33		P	NaN
8	☐			40.00		P	38.2

172 Yb [No Gas] No available calibration points

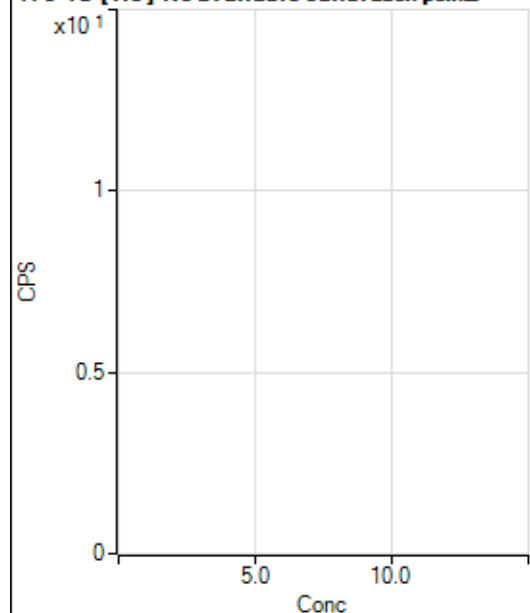
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	9.1
2	☐			27.78		P	45.8
3	☐			30.56		P	87.7
4	☐			38.89		P	24.7
5	☐			44.45		P	47.2
6	☐			61.11		P	28.4
7	☐			77.78		P	32.7
8	☐			75.00		P	22.2

172 Yb [He] No available calibration points

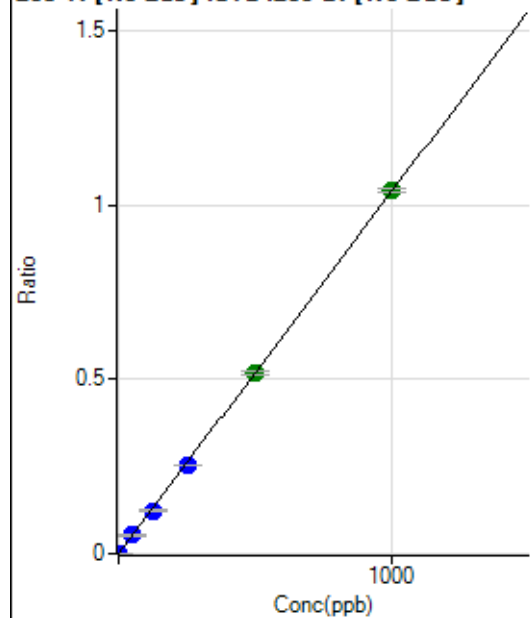
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.82		P	78.1
2	☐			16.67		P	33.3
3	☐			5.56		P	100.
4	☐			14.81		P	114.
5	☐			20.37		P	56.8
6	☐			16.67		P	NaN
7	☐			42.59		P	39.8
8	☐			42.60		P	32.8

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1152.87		P	9.0
2	☐			1208.42		P	0.7
3	☐			2116.89		P	12.7
4	☐			3281.06		P	2.7
5	☐			5448.51		P	4.1
6	☐			9892.88		P	4.0
7	☐			19818.07		P	2.0
8	☐			1222.31		P	13.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7089.07		P	3.1
2	☐			7070.56		P	9.0
3	☐			7507.84		P	2.9
4	☐			7958.09		P	2.3
5	☐			8725.26		P	5.1
6	☐			10984.41		P	5.7
7	☐			15229.39		P	1.9
8	☐			7011.23		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	252.79	0.0001	P	13.9
2	☐	1.000	0.862	4120.22	0.0010	P	6.1
3	☐	50.000	52.790	220065.73	0.0549	P	10.0
4	☐	125.000	119.072	534935.21	0.1238	P	1.8
5	☐	250.000	244.728	1075919.74	0.2544	P	0.6
6	☐	500.000	498.029	2231552.48	0.5176	A	2.5
7	☐	1000.000	1002.905	4468207.65	1.0423	A	1.2
8	☐			1630.70	0.0004	P	8.8

$$y = 0.0010 * x + 5.8734E-005$$

$$R = 1.0000$$

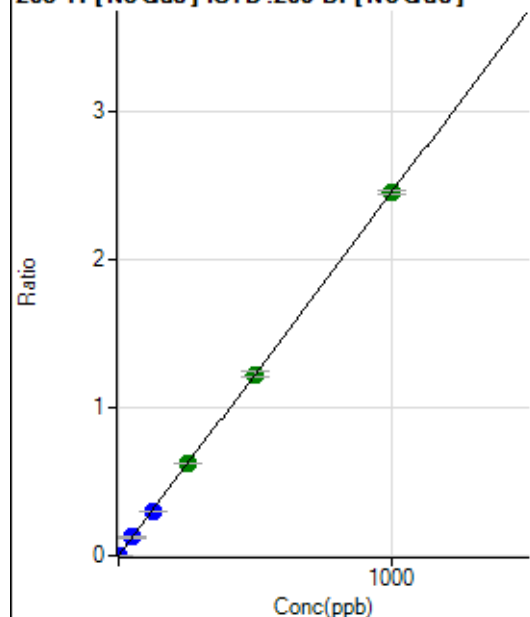
$$DL = 0.02349$$

$$BEC = 0.05652$$

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	594.48	0.0001	P	22.4
2	☐	1.000	0.876	9848.46	0.0023	P	1.7
3	☐	50.000	52.825	519125.68	0.1295	P	10.0
4	☐	125.000	121.298	1284370.54	0.2972	P	1.7
5	☐	250.000	253.909	2631313.92	0.6220	A	1.8
6	☐	500.000	500.045	5282292.43	1.2249	A	3.3
7	☐	1000.000	999.322	10493753.71	2.4478	A	0.9
8	☐			4025.75	0.0010	P	4.3

$$y = 0.0024 * x + 1.3862E-004$$

$$R = 1.0000$$

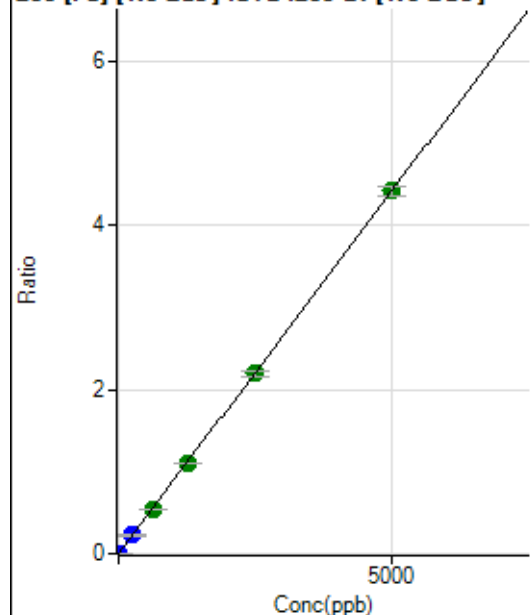
$$DL = 0.03798$$

$$BEC = 0.05659$$

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	568.54	0.0001	P	2.5
2	☐	1.000	0.866	3863.63	0.0009	P	3.0
3	☐	250.000	258.036	914448.41	0.2282	P	9.8
4	☐	625.000	614.960	2348923.93	0.5436	A	2.2
5	☐	1250.000	1249.985	4673457.05	1.1049	A	1.6
6	☐	2500.000	2487.690	9481536.55	2.1988	A	3.0
7	☐	5000.000	5007.012	18970034.69	4.4254	A	2.7
8	☐			5590.20	0.0014	P	1.7

$$y = 8.8381E-004 * x + 1.3081E-004$$

$$R = 1.0000$$

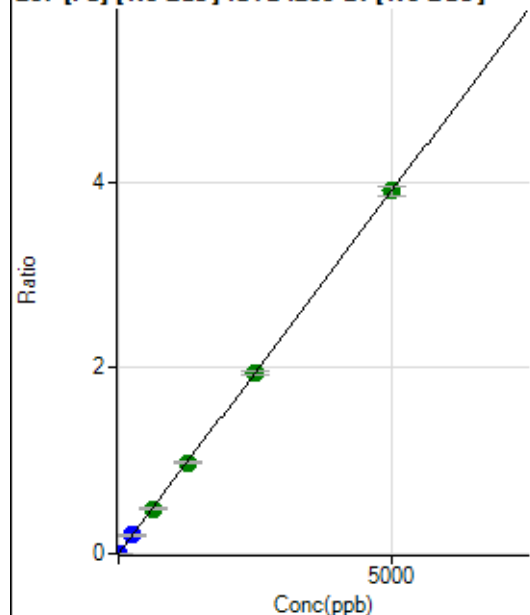
$$DL = 0.01129$$

$$BEC = 0.148$$

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	453.72	0.0001	P	15.9
2	☐	1.000	0.882	3426.45	0.0008	P	4.0
3	☐	250.000	258.975	810550.83	0.2022	P	9.0
4	☐	625.000	619.311	2088705.93	0.4833	A	2.3
5	☐	1250.000	1252.178	4132670.43	0.9771	A	1.2
6	☐	2500.000	2494.144	8390296.43	1.9461	A	2.6
7	☐	5000.000	5002.646	16732861.14	3.9033	A	2.3
8	☐			4921.43	0.0012	P	3.0

$$y = 7.8022\text{E-}004 * x + 1.0558\text{E-}004$$

$$R = 1.0000$$

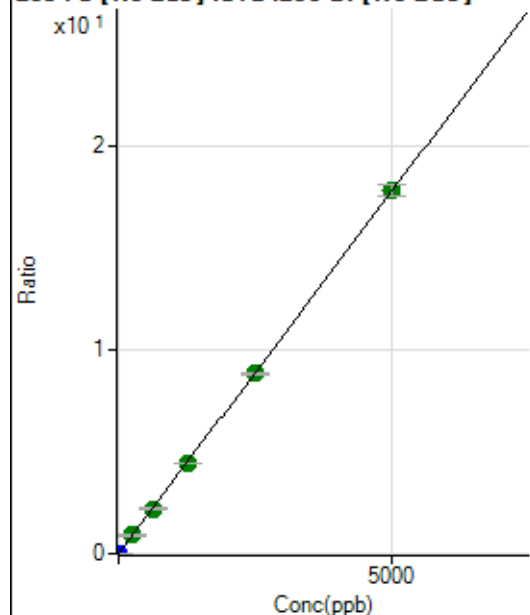
$$DL = 0.06474$$

$$BEC = 0.1353$$

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	2159.37	0.0005	P	8.7
2	☐	1.000	0.871	15526.17	0.0036	P	1.4
3	☐	250.000	262.119	3741304.96	0.9339	A	10.2
4	☐	625.000	619.099	9527889.52	2.2050	A	1.8
5	☐	1250.000	1242.652	18719373.54	4.4254	A	0.8
6	☐	2500.000	2484.118	38143501.03	8.8462	A	1.5
7	☐	5000.000	5009.910	76475849.51	17.8402	A	3.2
8	☐			21874.26	0.0055	P	1.2

$$y = 0.0036 * x + 4.9983\text{E-}004$$

$$R = 1.0000$$

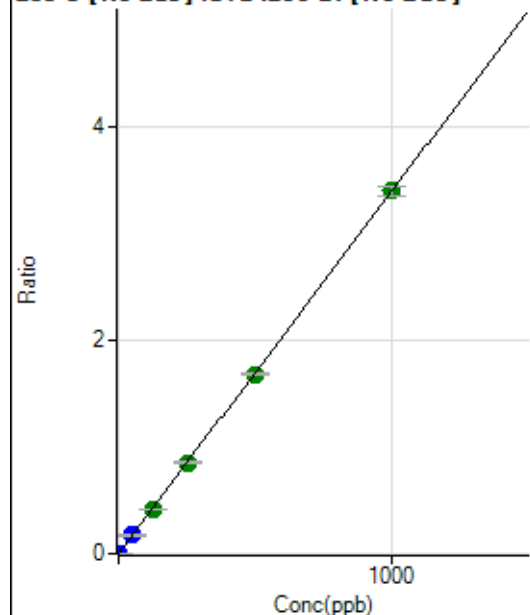
$$DL = 0.0365$$

$$BEC = 0.1404$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	63.89	0.0000	P	48.1
2	☐	1.000	0.854	12528.75	0.0029	P	4.3
3	☐	50.000	51.171	694418.27	0.1734	P	11.1
4	☐	125.000	121.773	1783402.79	0.4126	A	1.7
5	☐	250.000	250.958	3597640.10	0.8504	A	2.1
6	☐	500.000	496.406	7253627.59	1.6820	A	0.7
7	☐	1000.000	1001.903	14552713.69	3.3948	A	2.6
8	☐			1183.43	0.0003	P	20.8

$$y = 0.0034 * x + 1.4275E-005$$

$$R = 1.0000$$

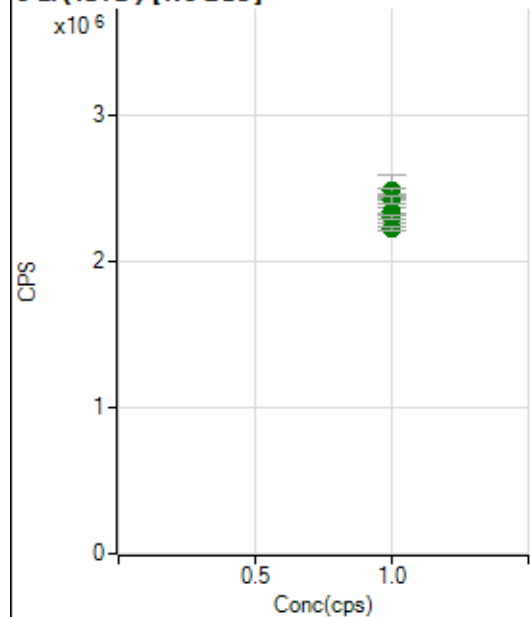
$$DL = 0.006083$$

$$BEC = 0.004213$$

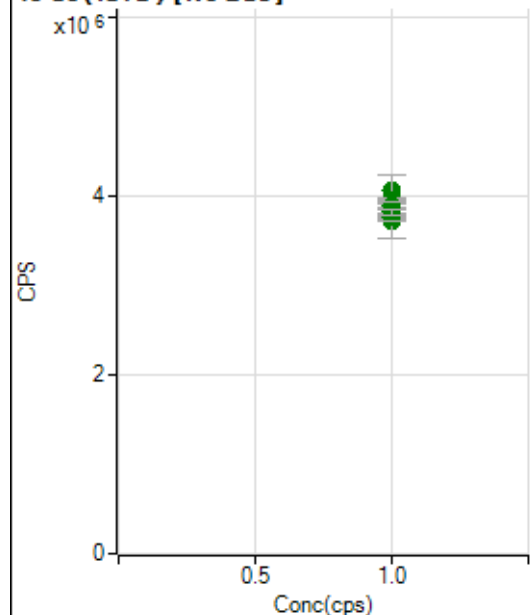
Weight: <None>

Min Conc: 0

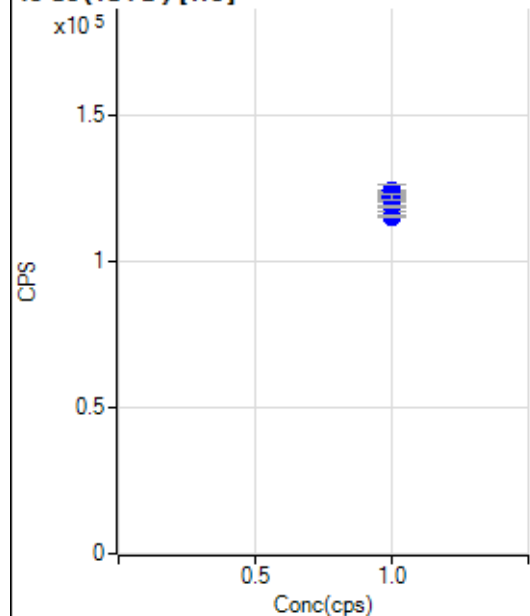
6 Li (ISTD) [No Gas]



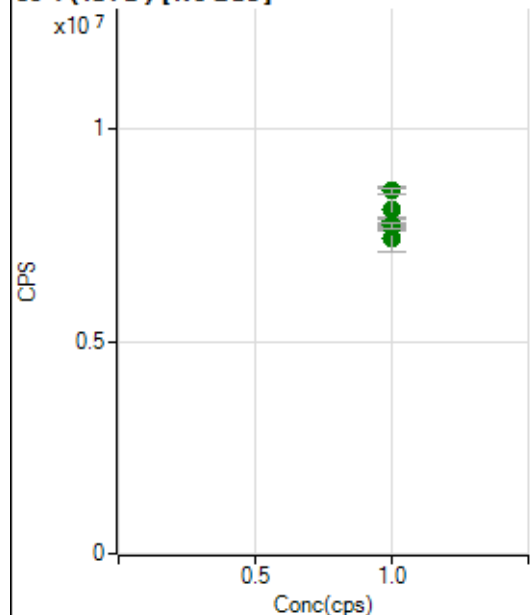
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2484045.62		A	8.9
2	☐	1.000		2485447.21		A	1.6
3	☐	1.000		2348963.67		A	6.9
4	☐	1.000		2421027.48		A	1.4
5	☐	1.000		2427722.35		A	2.3
6	☐	1.000		2315027.16		A	1.8
7	☐	1.000		2304927.54		A	1.3
8	☐	1.000		2223560.47		A	1.3

45 Sc (ISTD) [No Gas]

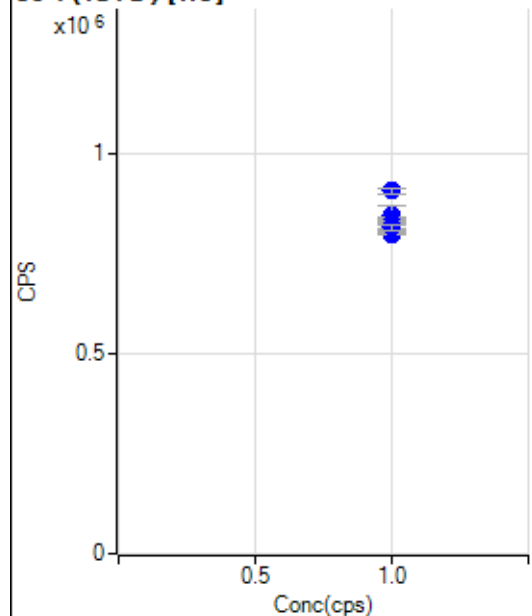
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4057912.09		A	8.8
2	☐	1.000		3963313.41		A	0.8
3	☐	1.000		3713439.49		A	10.3
4	☐	1.000		3892854.56		A	2.4
5	☐	1.000		3779833.00		A	1.7
6	☐	1.000		3808122.31		A	2.6
7	☐	1.000		3760324.74		A	2.2
8	☐	1.000		3824337.13		A	1.7

45 Sc (ISTD) [He]

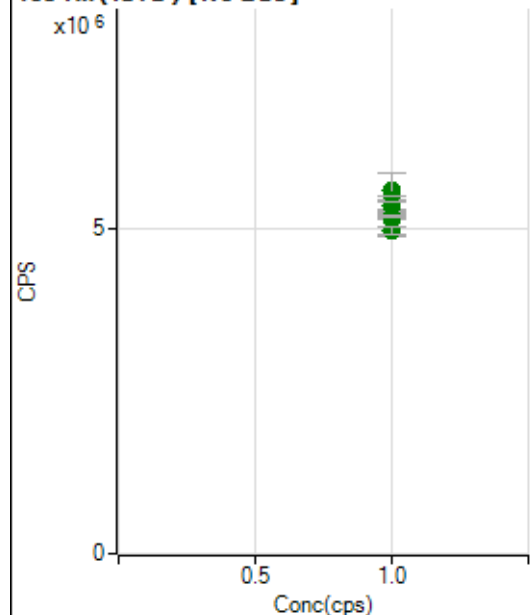
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		124365.74		P	0.2
2	☐	1.000		124285.27		P	3.9
3	☐	1.000		123413.82		P	0.9
4	☐	1.000		121974.86		P	1.9
5	☐	1.000		115595.85		P	0.4
6	☐	1.000		119345.82		P	3.1
7	☐	1.000		119088.54		P	0.8
8	☐	1.000		122395.51		P	1.7

89 Y (ISTD) [No Gas]

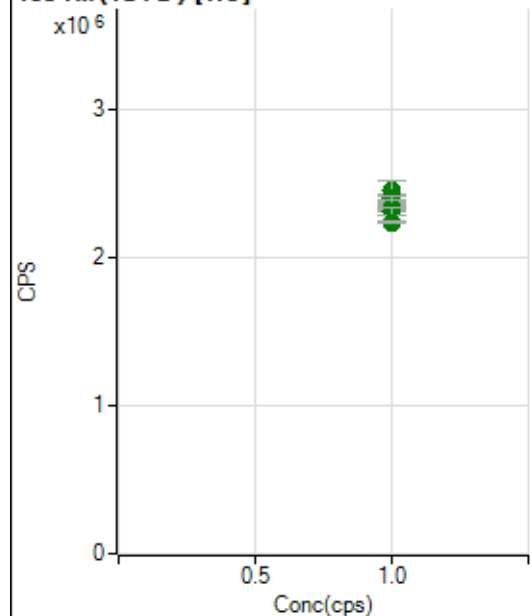
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8129315.92		A	13.1
2	☐	1.000		7851882.24		A	2.0
3	☐	1.000		7427938.43		A	8.0
4	☐	1.000		7739828.63		A	3.5
5	☐	1.000		7700920.58		A	0.7
6	☐	1.000		7758057.52		A	0.6
7	☐	1.000		7738337.52		A	1.7
8	☐	1.000		8554498.76		A	1.5

89 Y (ISTD) [He]

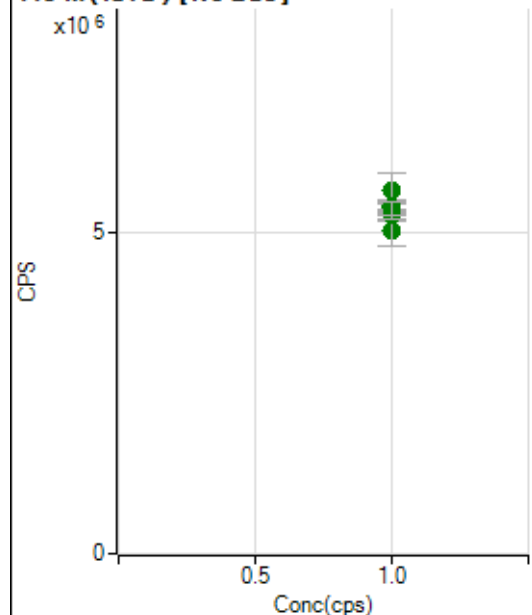
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		827035.89		P	1.2
2	☐	1.000		844999.81		P	6.0
3	☐	1.000		838212.71		P	0.7
4	☐	1.000		824990.90		P	0.5
5	☐	1.000		799950.58		P	1.0
6	☐	1.000		821165.65		P	2.8
7	☐	1.000		815446.27		P	1.8
8	☐	1.000		906539.94		P	1.3

103 Rh (ISTD) [No Gas]

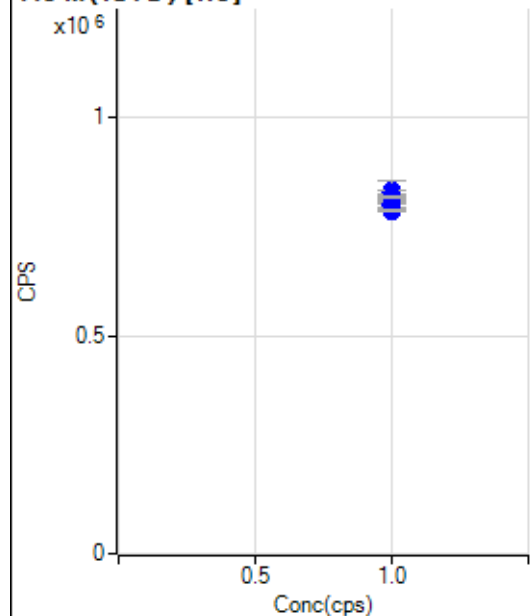
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5578835.28		A	9.7
2	☐	1.000		5454158.45		A	1.5
3	☐	1.000		5159339.92		A	10.5
4	☐	1.000		5343859.02		A	2.2
5	☐	1.000		5249614.05		A	0.9
6	☐	1.000		5175702.50		A	1.7
7	☐	1.000		5186582.49		A	0.8
8	☐	1.000		4970832.84		A	2.6

103 Rh (ISTD) [He]

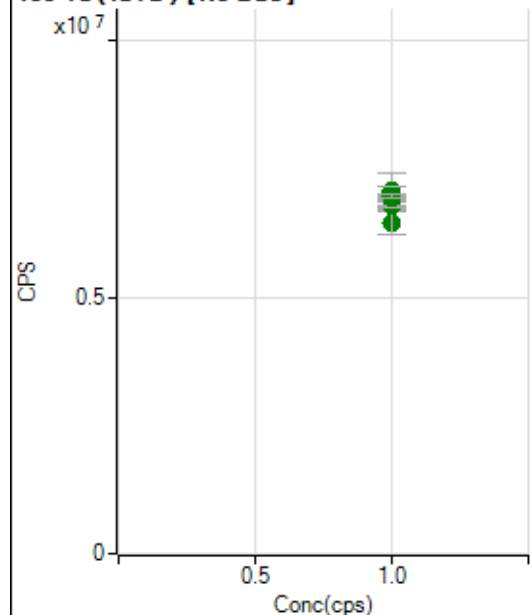
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2404004.42		A	1.9
2	☐	1.000		2452597.01		A	5.9
3	☐	1.000		2404097.79		A	1.6
4	☐	1.000		2343042.69		A	1.6
5	☐	1.000		2335014.22		A	2.0
6	☐	1.000		2340953.49		A	4.4
7	☐	1.000		2313001.30		A	1.8
8	☐	1.000		2242040.56		A	0.9

115 In (ISTD) [No Gas]

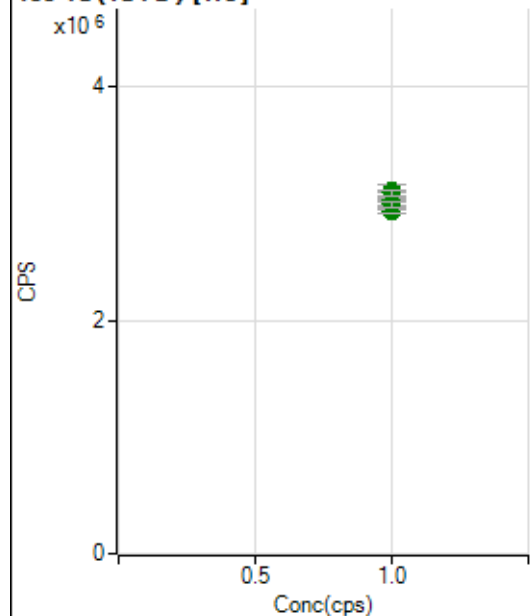
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5647829.69		A	10.0
2	☐	1.000		5386499.31		A	2.7
3	☐	1.000		5029805.89		A	9.2
4	☐	1.000		5410264.71		A	3.1
5	☐	1.000		5256908.19		A	2.9
6	☐	1.000		5332308.43		A	1.0
7	☐	1.000		5275673.65		A	2.4
8	☐	1.000		5381271.60		A	3.9

115 In (ISTD) [He]

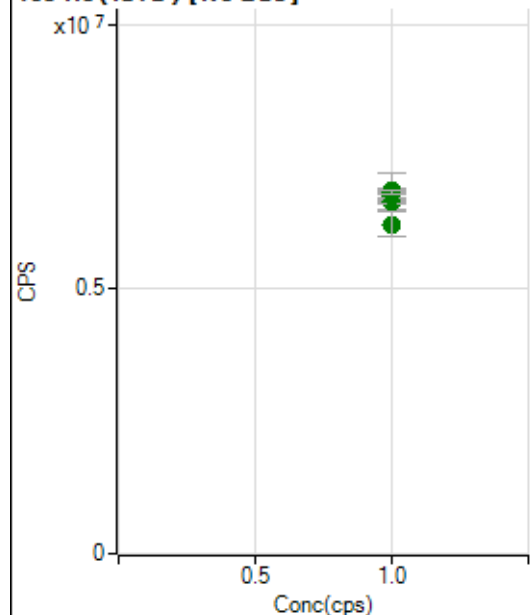
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		819920.22		P	1.3
2	☐	1.000		832292.05		P	5.6
3	☐	1.000		828583.30		P	1.1
4	☐	1.000		799969.47		P	1.2
5	☐	1.000		785191.71		P	0.4
6	☐	1.000		801287.98		P	3.0
7	☐	1.000		786875.27		P	0.8
8	☐	1.000		819073.71		P	0.9

159 Tb (ISTD) [No Gas]

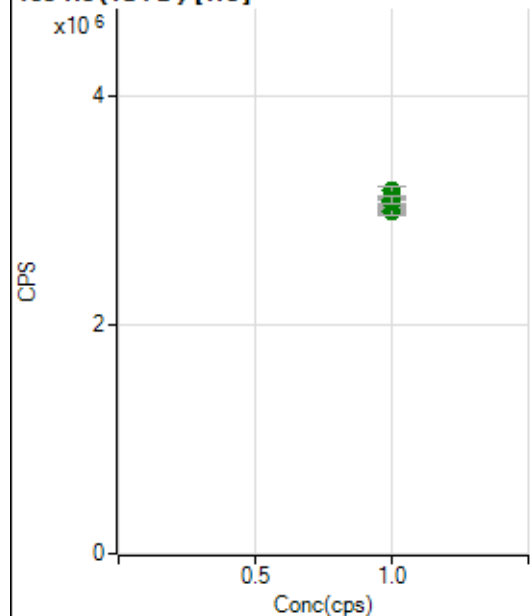
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7054097.81		A	10.8
2	☐	1.000		6903441.08		A	1.4
3	☐	1.000		6462459.55		A	7.8
4	☐	1.000		6906505.59		A	1.4
5	☐	1.000		6764189.90		A	0.5
6	☐	1.000		6940769.76		A	1.7
7	☐	1.000		7070187.33		A	2.9
8	☐	1.000		6978491.22		A	1.1

159 Tb (ISTD) [He]

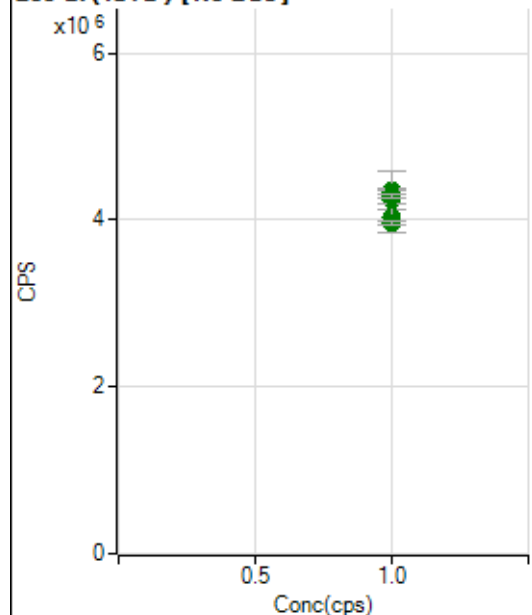
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2999315.58		A	2.1
2	☐	1.000		3039821.31		A	4.4
3	☐	1.000		3012448.43		A	2.1
4	☐	1.000		2964290.48		A	0.7
5	☐	1.000		2933632.87		A	1.1
6	☐	1.000		3110990.65		A	3.5
7	☐	1.000		2999291.24		A	1.6
8	☐	1.000		3093678.91		A	1.3

165 Ho (ISTD) [No Gas]

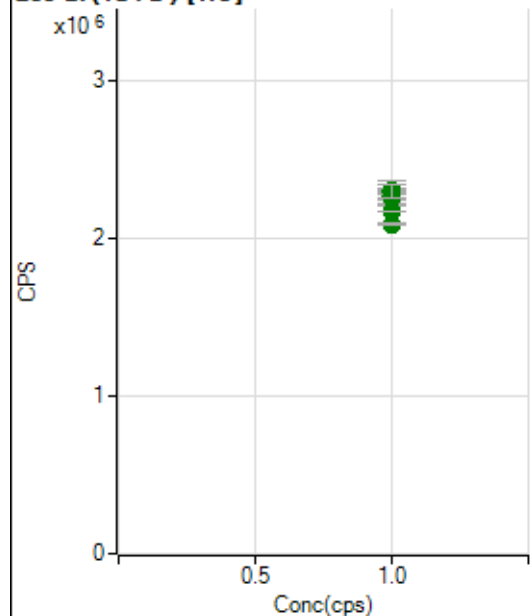
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6844627.06		A	10.2
2	☐	1.000		6683548.89		A	1.1
3	☐	1.000		6227277.92		A	7.6
4	☐	1.000		6694630.62		A	1.1
5	☐	1.000		6649091.77		A	1.5
6	☐	1.000		6775694.34		A	1.7
7	☐	1.000		6855690.69		A	1.8
8	☐	1.000		6832520.21		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3025957.35		A	2.1
2	☐	1.000		3050635.37		A	4.4
3	☐	1.000		3020052.63		A	1.5
4	☐	1.000		3035045.44		A	1.6
5	☐	1.000		2994586.41		A	1.9
6	☐	1.000		3176679.50		A	2.7
7	☐	1.000		3078145.79		A	0.8
8	☐	1.000		3098150.54		A	2.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4346929.83		A	10.7
2	☐	1.000		4312186.05		A	2.4
3	☐	1.000		4029642.58		A	8.6
4	☐	1.000		4322323.20		A	2.9
5	☐	1.000		4229798.97		A	1.7
6	☐	1.000		4312700.67		A	2.1
7	☐	1.000		4287155.94		A	0.7
8	☐	1.000		3958617.51		A	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2268777.12		A	2.8
2	☐	1.000		2286903.44		A	6.5
3	☐	1.000		2297719.43		A	1.8
4	☐	1.000		2250365.87		A	3.6
5	☐	1.000		2264561.65		A	1.1
6	☐	1.000		2295214.90		A	4.0
7	☐	1.000		2167222.64		A	0.3
8	☐	1.000		2088255.28		A	1.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8030823MS2.b

Acq. Date-Time 2023-03-08 14:08:02

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		7346	73457.26			0.946	5.000
24		54384	543843.81			1.153	5.000
25		7476	74761.24			1.145	5.000
26		8502	85019.02			0.502	5.000
59		43848	438479.05			1.090	5.000
113		4559	45592.44			0.793	5.000
115		56303	563033.26			1.168	5.000
206		12479	124793.19			1.985	5.000
207		11501	115005.54			1.772	5.000
208		27072	270716.98			1.823	5.000
220		1	5.20			56.723	

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

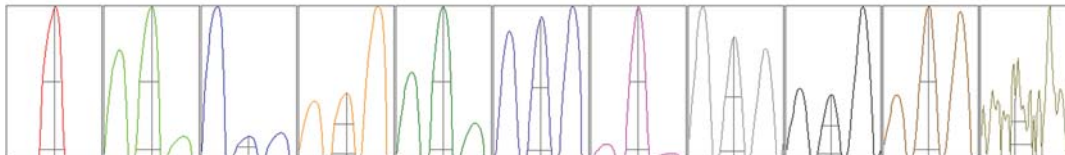
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7316	7287	7440	7399	7287
24	53707	54254	54779	55245	53937
25	7401	7525	7519	7566	7370
26	8528	8467	8564	8472	8478
59	43105	44153	44260	44083	43638
113	4564	4502	4602	4572	4556
115	55990	56194	57238	56603	55492
206	12160	12365	12768	12687	12417
207	11203	11508	11729	11640	11423
208	26410	26702	27493	27510	27244

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13267.03	9.05	8.90 - 9.10	
24	97675.21	24.05	23.90 - 24.10	
25	13214.09	25.00	24.90 - 25.10	
26	15326.41	26.05	25.90 - 26.10	
59	82025.80	59.00	58.90 - 59.10	
113	9137.46	113.00	112.90 - 113.10	
115	116070.84	115.00	114.90 - 115.10	
206	25064.17	205.95	205.90 - 206.10	
207	22740.21	206.95	206.90 - 207.10	
208	54979.05	207.95	207.90 - 208.10	
220	0.55	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.779	0.900	
24	0.60	0.773	0.900	
25	0.60	0.776	0.900	
26	0.59	0.740	0.900	
59	0.56	0.733	0.900	
113	0.51	0.758	0.900	
115	0.51	0.727	0.900	
206	0.51	0.780	0.900	
207	0.51	0.751	0.900	
208	0.50	0.796	0.900	
220	0.45	0.683		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 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	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	15.6 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.8 mm
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EM

Discriminator	4.3 mV	Analog HV	2320 V	Pulse HV	1730 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9029	90288.48			0.859	
89		9883	98831.17			1.025	
205		8327	83268.50			1.077	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9078	9114	9045	8992	8916
89	10000	9887	9814	9960	9754
205	8253	8277	8258	8444	8402

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.7 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.02		

Hardware Settings

Torch

Torch H	1.3 mm	Torch V	-0.8 mm
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EM

Discriminator	4.3 mV	Analog HV	2320 V	Pulse HV	1730 V
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