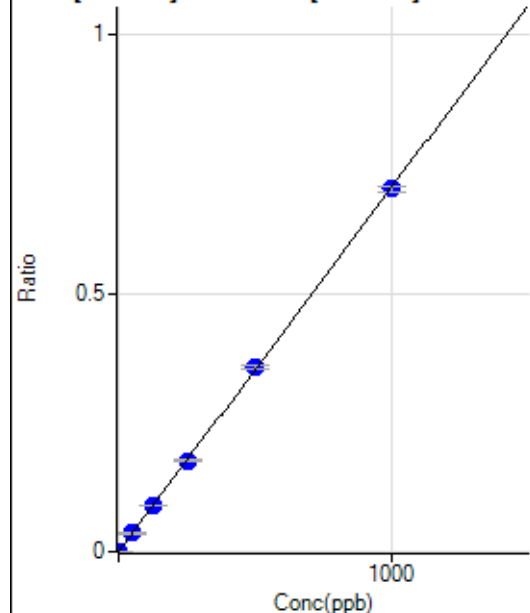


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8073120 MS.b\
Analysis File: P8073120 MS.batch.bin
DA Date-Time: 2020-07-31 17:32:08
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-07-31 13:35:21
2	004CALS.d	S02	2020-07-31 13:38:29
3	005CALS.d	S03	2020-07-31 13:41:35
4	006CALS.d	S04	2020-07-31 13:44:42
5	007CALS.d	S05	2020-07-31 13:47:42
6	008CALS.d	S06	2020-07-31 13:50:43
7	009CALS.d	S07	2020-07-31 13:53:41
8	010CALS.d	S08	2020-07-31 13:56:42

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.59	0.0001	P	38.9
2	☐	1.000	1.033	666.65	0.0008	P	4.3
3	☐	50.000	50.484	31675.67	0.0356	P	2.7
4	☐	125.000	127.842	81034.56	0.0901	P	1.0
5	☐	250.000	250.639	160212.78	0.1766	P	2.1
6	☐	500.000	506.643	322701.80	0.3568	P	2.4
7	☐	1000.000	996.139	611805.93	0.7015	P	1.6
8	☐			9365.57	0.0109	P	3.0

$$y = 7.0413\text{E-}004 * x + 6.6690\text{E-}005$$

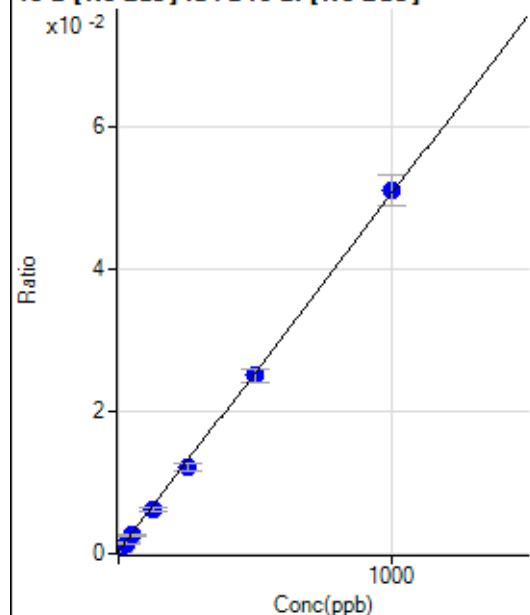
$$R = 1.0000$$

$$DL = 0.1105$$

$$BEC = 0.09471$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	311.94	0.0004	P	8.0
2	☐	25.000	21.147	1201.82	0.0014	P	7.5
3	☐	50.000	45.899	2379.73	0.0027	P	8.7
4	☐	125.000	118.227	5669.99	0.0063	P	9.2
5	☐	250.000	235.617	11068.68	0.0122	P	9.8
6	☐	500.000	492.229	22684.99	0.0251	P	7.3
7	☐	1000.000	1008.630	44464.21	0.0510	P	8.5
8	☐			8051.97	0.0094	P	9.4

$$y = 5.0188\text{E-}005 * x + 3.7197\text{E-}004$$

$$R = 0.9999$$

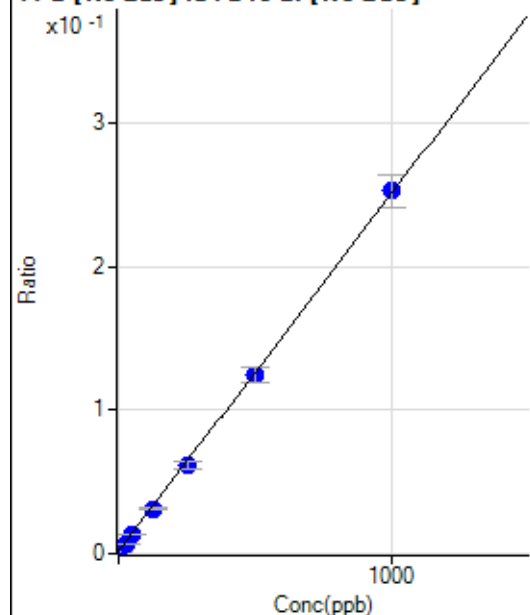
$$DL = 1.777$$

$$BEC = 7.411$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1503.12	0.0018	P	3.3
2	☐	25.000	20.019	5680.65	0.0068	P	10.2
3	☐	50.000	46.109	11805.09	0.0133	P	8.2
4	☐	125.000	119.017	28263.46	0.0314	P	8.2
5	☐	250.000	238.054	55426.39	0.0611	P	8.8
6	☐	500.000	493.191	112738.27	0.1246	P	7.7
7	☐	1000.000	1007.458	220357.78	0.2527	P	9.1
8	☐			39711.52	0.0465	P	9.5

$$y = 2.4908\text{E-}004 * x + 0.0018$$

R = 0.9999

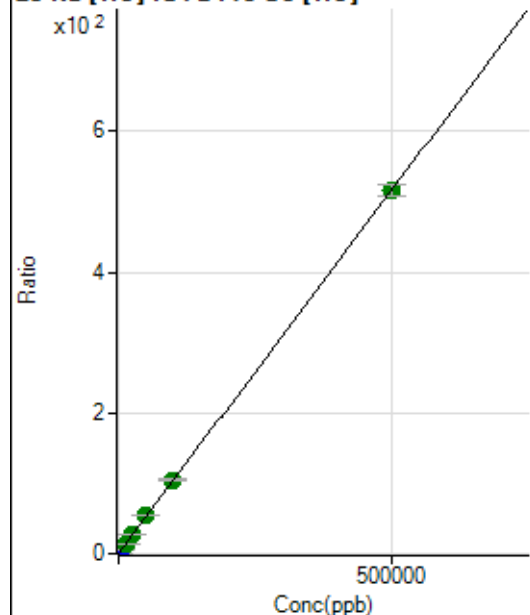
DL = 0.7059

BEC = 7.187

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36841.70	0.3460	P	2.2
2	☐	500.000	470.704	91083.99	0.8313	P	0.8
3	☐	5000.000	5288.751	634541.11	5.7993	P	1.1
4	☐	12500.000	13558.534	1521133.37	14.3264	A	2.4
5	☐	25000.000	26541.714	2951119.79	27.7135	A	4.0
6	☐	50000.000	53336.258	5904682.20	55.3417	A	1.1
7	☐	100000.00	101409.71	11197086.71	104.9108	A	2.5
8	☐	500000.00	499278.02	52535978.26	515.1578	A	3.1

$$y = 0.0010 * x + 0.3460$$

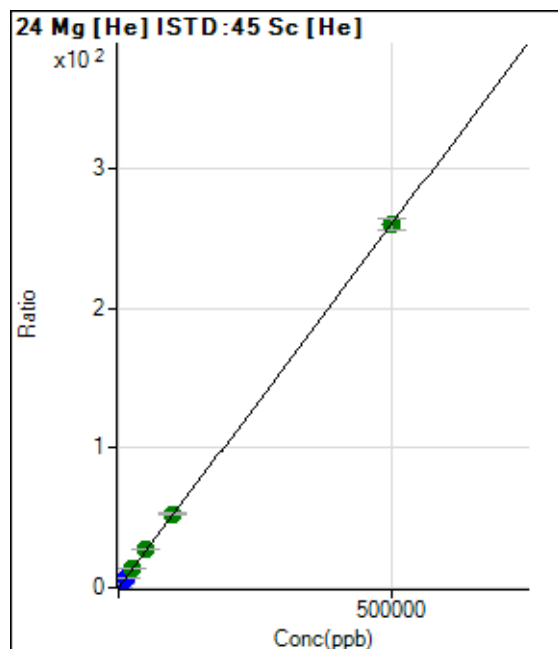
R = 1.0000

DL = 22.23

BEC = 335.6

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1194.53	0.0112	P	10.7
2	☐	500.000	478.457	28469.91	0.2599	P	1.6
3	☐	5000.000	5338.969	304783.08	2.7856	P	1.6
4	☐	12500.000	13764.703	760376.02	7.1641	P	3.9
5	☐	25000.000	27016.120	1496073.43	14.0502	A	4.4
6	☐	50000.000	53368.164	2960107.23	27.7441	A	0.9
7	☐	100000.00	101842.11	5648637.45	52.9337	A	3.6
8	☐	500000.00	499158.97	26453870.55	259.4001	A	3.1

$$y = 5.1965\text{E-}004 * x + 0.0112$$

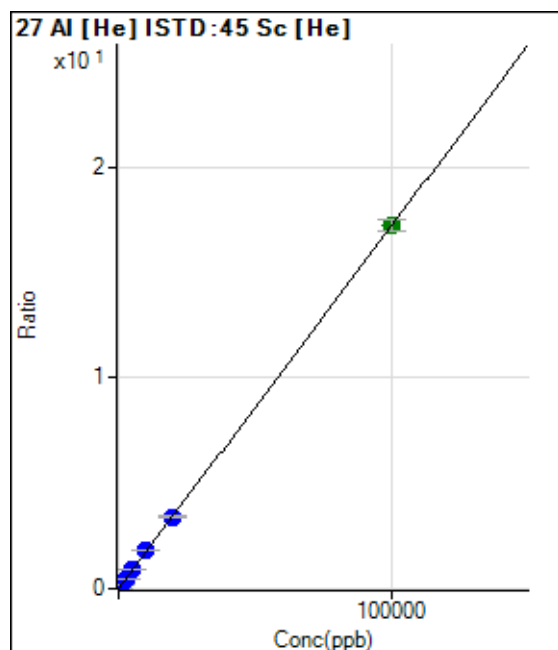
$$R = 1.0000$$

$$DL = 6.929$$

$$BEC = 21.61$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	701.21	0.0066	P	10.8
2	☐	20.000	19.154	1082.50	0.0099	P	2.9
3	☐	1000.000	1005.628	19632.65	0.1794	P	2.2
4	☐	2500.000	2620.689	48505.88	0.4571	P	4.3
5	☐	5000.000	5180.114	95534.62	0.8970	P	2.8
6	☐	10000.000	10363.257	190755.29	1.7879	P	0.6
7	☐	20000.000	19677.646	361681.83	3.3889	P	2.7
8	☐	100000.00	100016.06	1753865.23	17.1982	A	3.2

$$y = 1.7189\text{E-}004 * x + 0.0066$$

$$R = 1.0000$$

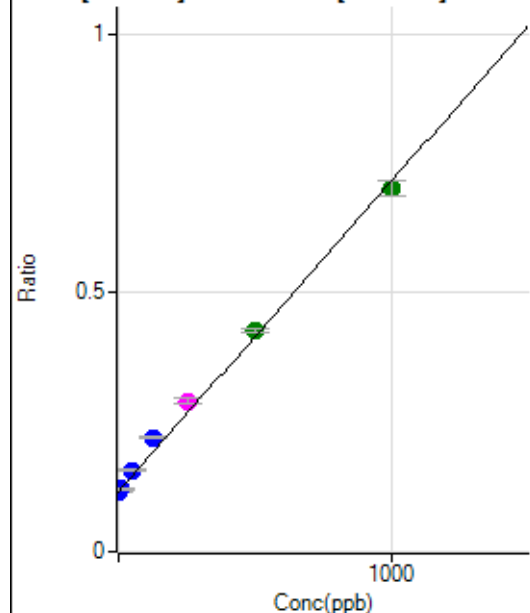
$$DL = 12.37$$

$$BEC = 38.33$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	370642.97	0.1162	P	4.9
2	☐	10.000	8.692	390296.87	0.1214	P	2.6
3	☐	50.000	68.962	516648.55	0.1575	P	2.0
4	☐	125.000	174.006	722349.26	0.2205	P	1.9
5	☐	250.000	290.399	957922.80	0.2903	M	3.6
6	☐	500.000	516.738	1422212.88	0.4259	A	1.7
7	☐	1000.000	974.471	2276938.09	0.7003	A	4.1
8	☐			658643.22	0.2060	P	1.7

$$y = 5.9941\text{E-}004 * x + 0.1162$$

$$R = 0.9980$$

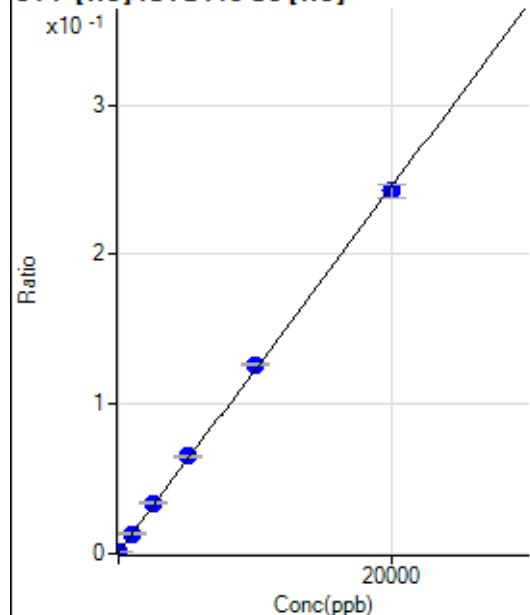
$$DL = 28.55$$

$$BEC = 193.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-3.167	91.67	0.0009	P	24.4
2	☐	0.000	3.167	102.78	0.0009	P	32.9
3	☐	1000.000	1006.675	1444.56	0.0132	P	6.9
4	☐	2500.000	2697.032	3594.98	0.0339	P	3.7
5	☐	5000.000	5243.209	6924.07	0.0650	P	2.2
6	☐	10000.000	10283.885	13506.63	0.1266	P	1.7
7	☐	20000.000	19772.293	25884.88	0.2426	P	3.9
8	☐			502.80	0.0049	P	13.0

$$y = 1.2223\text{E-}005 * x + 8.9992\text{E-}004$$

$$R = 0.9997$$

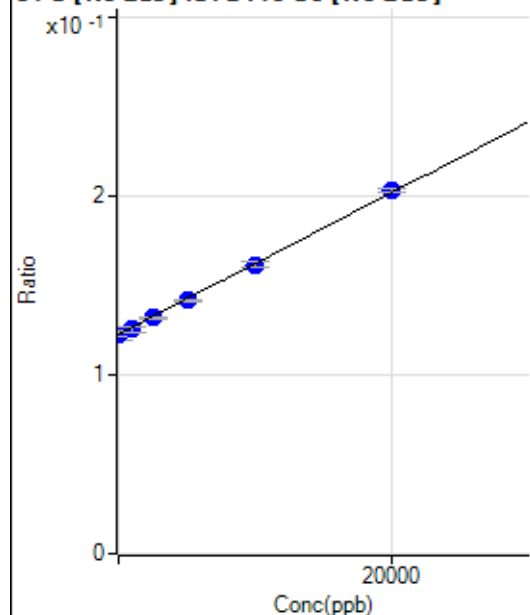
$$DL = 63.72$$

$$BEC = 73.62$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.102	392268.34	0.1230	P	5.0
2	☐	0.000	-0.102	395338.53	0.1230	P	2.8
3	☐	1000.000	650.237	411714.88	0.1255	P	2.5
4	☐	2500.000	2305.740	432816.48	0.1321	P	0.7
5	☐	5000.000	4743.028	467747.95	0.1418	P	0.9
6	☐	10000.000	9743.765	539440.40	0.1616	P	1.9
7	☐	20000.000	20234.131	660684.95	0.2031	P	1.2
8	☐			373348.75	0.1168	P	1.1

$$y = 3.9619\text{E-}006 * x + 0.1230$$

$$R = 0.9997$$

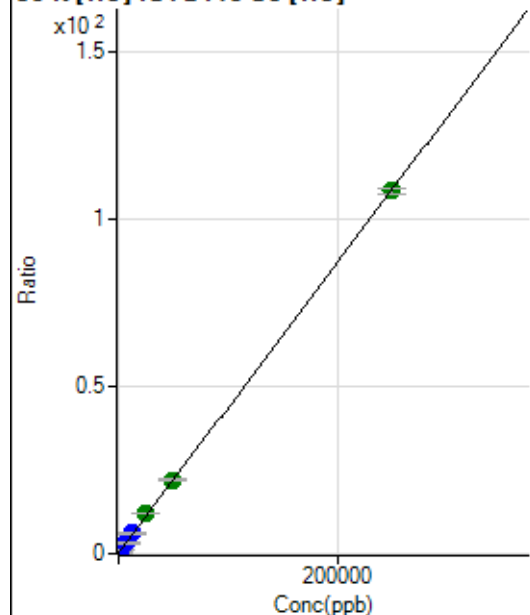
$$DL = 3631$$

$$BEC = 3.104\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23249.91	0.2184	P	2.9
2	☐	500.000	464.696	45995.99	0.4198	P	0.6
3	☐	2500.000	2708.657	152376.52	1.3926	P	0.9
4	☐	6250.000	6858.898	338743.41	3.1917	P	4.4
5	☐	12500.000	13501.075	646612.86	6.0711	P	2.8
6	☐	25000.000	26967.969	1270636.51	11.9090	A	1.5
7	☐	50000.000	50370.482	2353963.25	22.0539	A	1.9
8	☐	250000.00	249661.81	11062383.49	108.4465	A	1.7

$$y = 4.3350\text{E-}004 * x + 0.2184$$

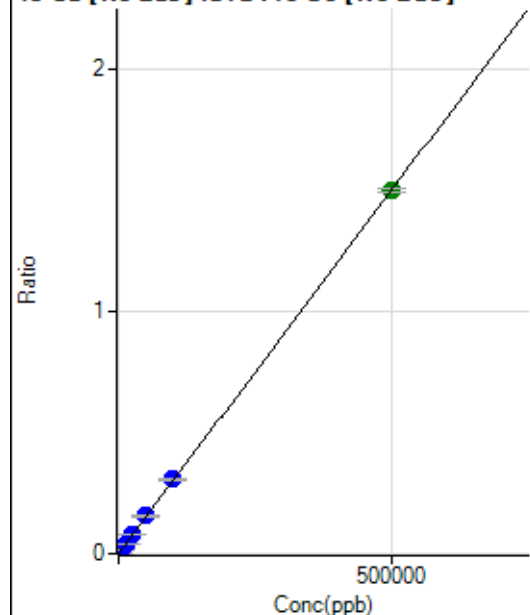
$$R = 1.0000$$

$$DL = 43.98$$

$$BEC = 503.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	347.24	0.0001	P	23.7
2	☐	500.000	468.323	4870.44	0.0015	P	4.0
3	☐	5000.000	5267.506	52167.63	0.0159	P	3.3
4	☐	12500.000	13197.943	130051.81	0.0397	P	1.7
5	☐	25000.000	26298.796	260650.51	0.0790	P	1.6
6	☐	50000.000	51960.330	520684.34	0.1560	P	2.5
7	☐	100000.00	102652.52	1001624.24	0.3080	P	2.7
8	☐	500000.00	499188.43	4785402.75	1.4974	A	1.0

$$y = 2.9995E-006 * x + 1.0932E-004$$

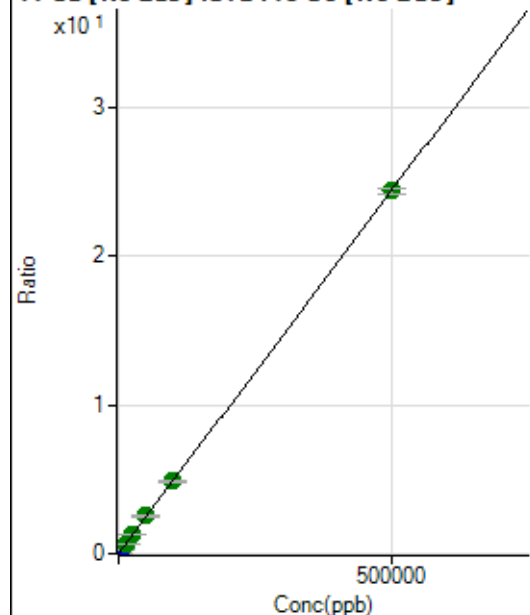
$$R = 1.0000$$

$$DL = 25.89$$

$$BEC = 36.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36427.42	0.0114	P	6.3
2	☐	500.000	483.795	112494.40	0.0350	P	3.3
3	☐	5000.000	5258.754	877641.60	0.2676	P	2.5
4	☐	12500.000	13397.883	2175960.20	0.6642	A	0.9
5	☐	25000.000	25675.720	4165136.38	1.2623	A	1.0
6	☐	50000.000	51506.216	8415661.73	2.5208	A	2.5
7	☐	100000.00	99799.220	15848198.27	4.8736	A	2.6
8	☐	500000.00	499830.73	77849944.80	24.3628	A	1.5

$$y = 4.8719E-005 * x + 0.0114$$

$$R = 1.0000$$

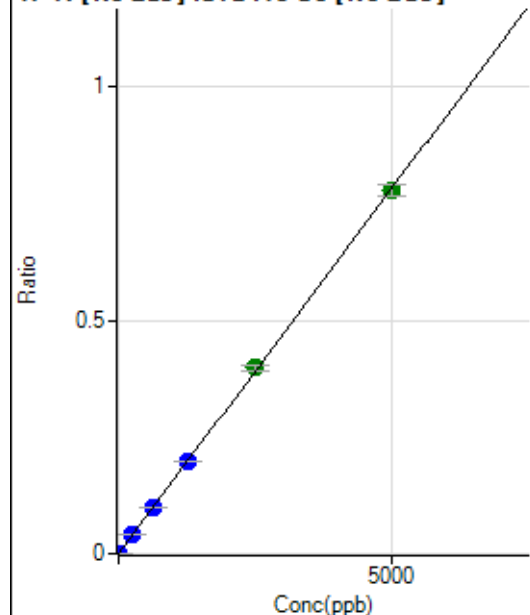
$$DL = 44.28$$

$$BEC = 234.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	380.57	0.0001	P	9.4
2	☐	5.000	4.689	2739.24	0.0009	P	2.8
3	☐	250.000	253.096	130052.66	0.0397	P	2.2
4	☐	625.000	640.218	328051.01	0.1001	P	0.9
5	☐	1250.000	1264.620	652231.31	0.1977	P	0.4
6	☐	2500.000	2546.706	1328320.80	0.3979	A	3.7
7	☐	5000.000	4970.935	2525376.14	0.7766	A	3.1
8	☐			36299.42	0.0114	P	2.2

$$y = 1.5621\text{E-}004 * x + 1.1922\text{E-}004$$

$$R = 0.9999$$

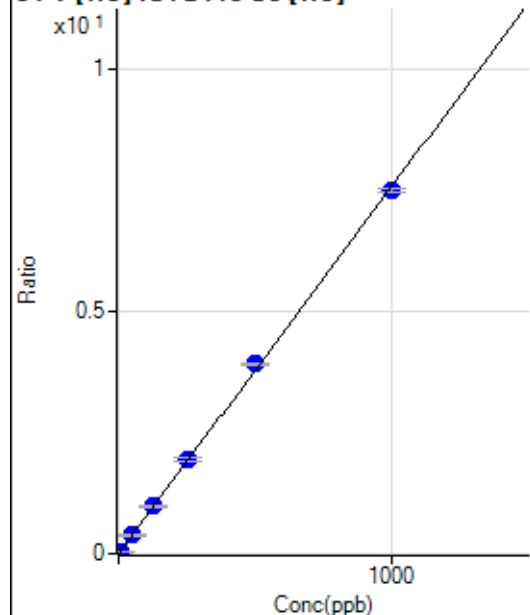
$$DL = 0.2146$$

$$BEC = 0.7632$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.56	0.0001	P	173.2
2	☐	5.000	4.678	3892.78	0.0355	P	1.7
3	☐	50.000	49.825	41350.73	0.3779	P	0.6
4	☐	125.000	128.968	103794.42	0.9780	P	4.4
5	☐	250.000	256.439	207121.33	1.9447	P	2.8
6	☐	500.000	518.399	419417.91	3.9312	P	0.9
7	☐	1000.000	988.705	800354.96	7.4976	P	1.1
8	☐			11431.33	0.1121	P	1.5

$$y = 0.0076 * x + 5.1337\text{E-}005$$

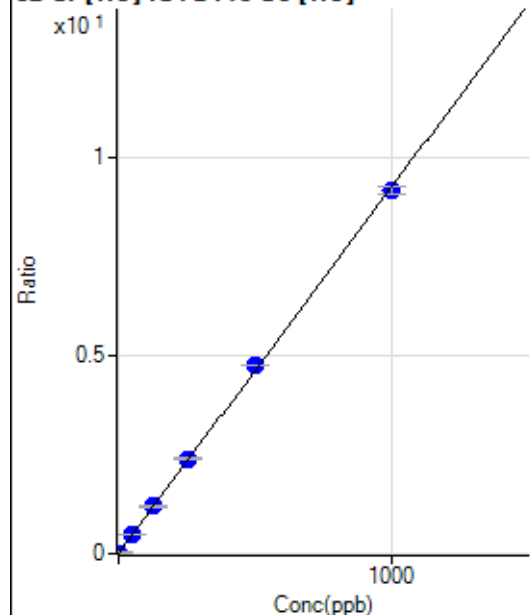
$$R = 0.9997$$

$$DL = 0.03518$$

$$BEC = 0.00677$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	731.14	0.0069	P	2.5
2	☐	2.000	1.878	2659.16	0.0243	P	4.9
3	☐	50.000	50.415	51848.09	0.4739	P	0.9
4	☐	125.000	128.699	127248.16	1.1990	P	4.3
5	☐	250.000	258.103	255406.98	2.3977	P	1.7
6	☐	500.000	514.982	509684.66	4.7771	P	0.4
7	☐	1000.000	990.000	979524.62	9.1772	P	2.0
8	☐			17866.80	0.1752	P	3.0

$$y = 0.0093 * x + 0.0069$$

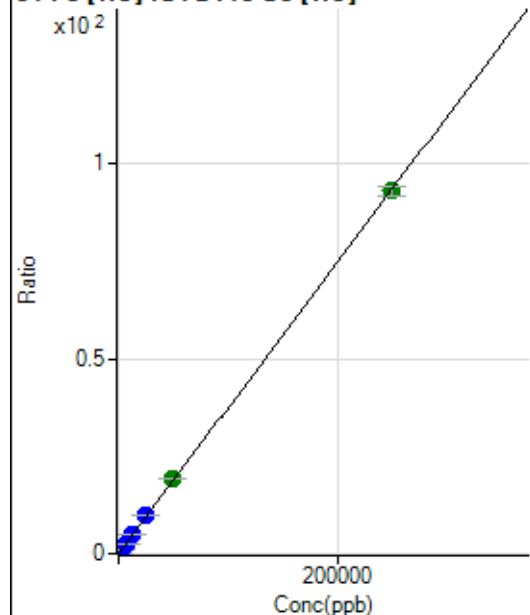
$$R = 0.9998$$

$$DL = 0.05481$$

$$BEC = 0.7412$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	340.75	0.0032	P	11.6
2	☐	50.000	48.956	2352.09	0.0215	P	3.7
3	☐	2500.000	2591.485	106182.30	0.9705	P	1.4
4	☐	6250.000	6674.181	264679.77	2.4943	P	4.8
5	☐	12500.000	13346.214	530942.22	4.9846	P	2.2
6	☐	25000.000	26598.682	1059578.02	9.9311	P	0.1
7	☐	50000.000	51804.067	2064333.51	19.3390	A	1.6
8	☐	250000.00	249425.48	9494974.75	93.1008	A	3.0

$$y = 3.7325E-004 * x + 0.0032$$

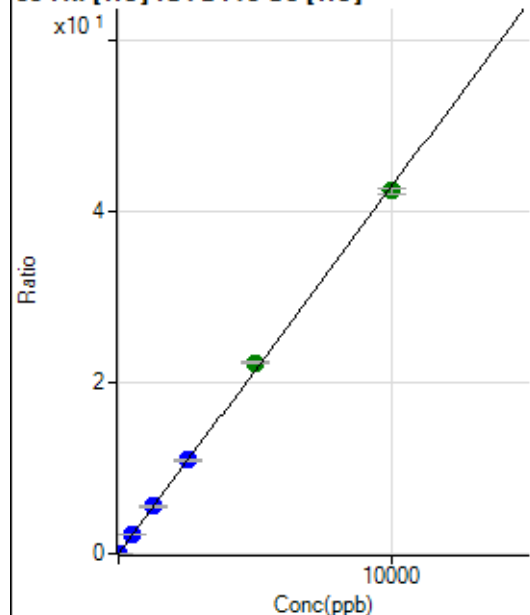
$$R = 1.0000$$

$$DL = 2.974$$

$$BEC = 8.561$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	107.78	0.0010	P	6.2
2	☐	1.000	0.904	535.57	0.0049	P	9.5
3	☐	500.000	502.591	235964.23	2.1564	P	0.4
4	☐	1250.000	1286.801	585731.78	5.5196	P	4.6
5	☐	2500.000	2548.463	1164257.74	10.9304	P	2.2
6	☐	5000.000	5199.896	2379462.07	22.3014	A	1.3
7	☐	10000.000	9883.207	4524409.03	42.3863	A	1.5
8	☐			65157.75	0.6390	P	3.7

$$y = 0.0043 * x + 0.0010$$

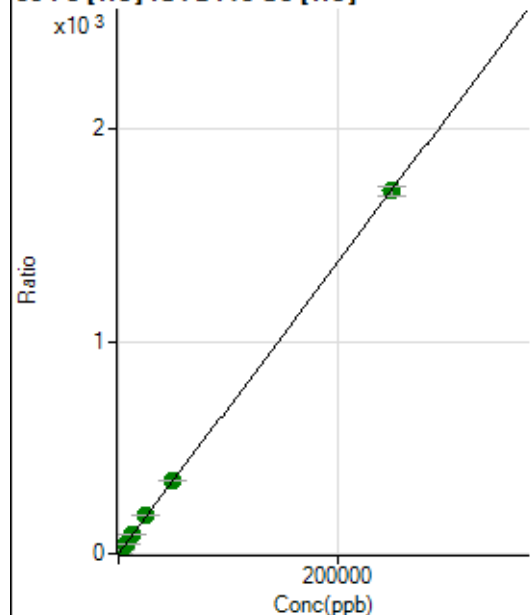
$$R = 0.9997$$

$$DL = 0.04375$$

$$BEC = 0.236$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2791.05	0.0262	P	6.1
2	☐	50.000	47.607	38561.56	0.3520	P	1.5
3	☐	2500.000	2595.764	1946194.17	17.7874	A	1.8
4	☐	6250.000	6574.796	4777673.37	45.0135	A	4.1
5	☐	12500.000	13052.838	9515580.77	89.3387	A	2.7
6	☐	25000.000	26309.492	19209988.62	180.0457	A	0.6
7	☐	50000.000	50273.939	36722609.62	344.0194	A	1.5
8	☐	250000.00	249777.54	174305657.6	1,709.098	A	2.7

$$y = 0.0068 * x + 0.0262$$

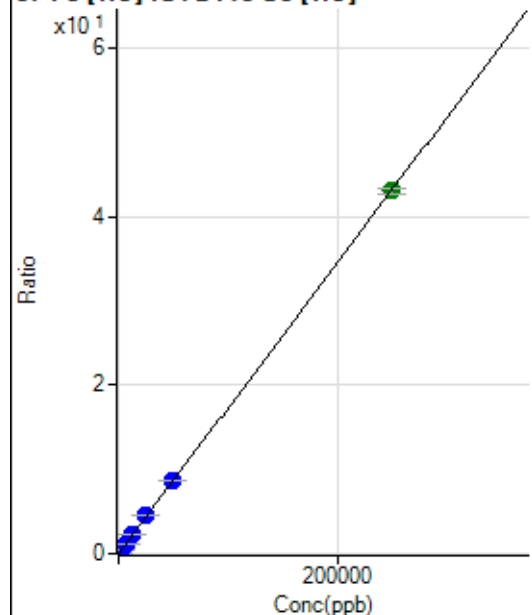
$$R = 1.0000$$

$$DL = 0.6974$$

$$BEC = 3.832$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	103.70	0.0010	P	38.7
2	☐	50.000	48.227	1018.58	0.0093	P	10.6
3	☐	2500.000	2535.113	47980.73	0.4385	P	2.5
4	☐	6250.000	6515.948	119488.28	1.1257	P	3.4
5	☐	12500.000	12966.576	238493.69	2.2391	P	2.4
6	☐	25000.000	26148.436	481639.72	4.5143	P	0.2
7	☐	50000.000	50304.156	926875.01	8.6837	P	1.8
8	☐	250000.00	249793.99	4397955.71	43.1166	A	1.8

$$y = 1.7260\text{E-}004 * x + 9.7512\text{E-}004$$

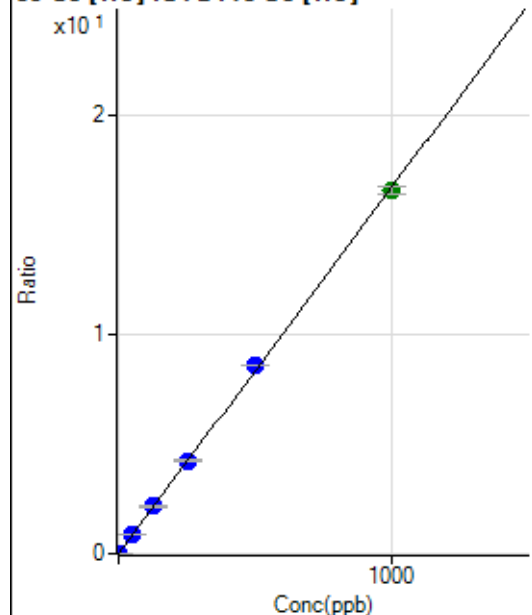
$$R = 1.0000$$

$$DL = 6.566$$

$$BEC = 5.649$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.78	0.0004	P	17.2
2	☐	1.000	0.872	1646.78	0.0150	P	6.9
3	☐	50.000	50.253	91976.73	0.8406	P	0.9
4	☐	125.000	128.819	228580.56	2.1541	P	4.9
5	☐	250.000	254.585	453363.68	4.2567	P	3.0
6	☐	500.000	514.408	917602.08	8.6006	P	0.6
7	☐	1000.000	991.160	1768713.74	16.5712	A	2.1
8	☐			26796.41	0.2627	P	1.6

$$y = 0.0167 * x + 4.4840\text{E-}004$$

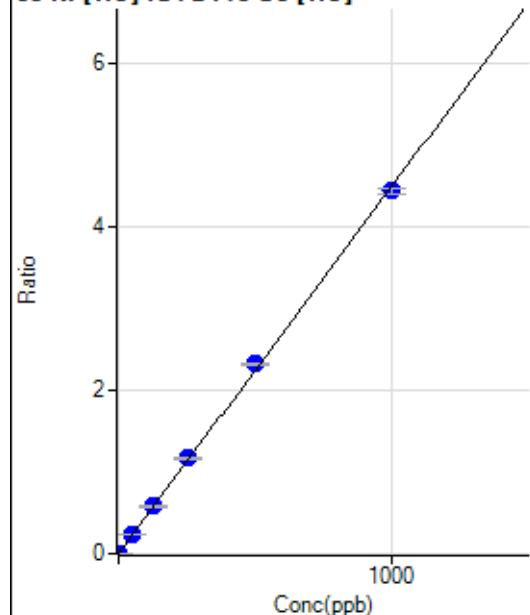
$$R = 0.9998$$

$$DL = 0.01382$$

$$BEC = 0.02682$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	123.34	0.0012	P	12.1
2	☐	1.000	0.900	570.02	0.0052	P	4.6
3	☐	50.000	50.971	25180.17	0.2301	P	1.3
4	☐	125.000	130.278	62236.53	0.5864	P	4.5
5	☐	250.000	259.703	124372.48	1.1678	P	3.3
6	☐	500.000	516.509	247678.64	2.3215	P	0.7
7	☐	1000.000	988.611	474161.77	4.4423	P	1.7
8	☐			8079.03	0.0792	P	2.7

$$y = 0.0045 * x + 0.0012$$

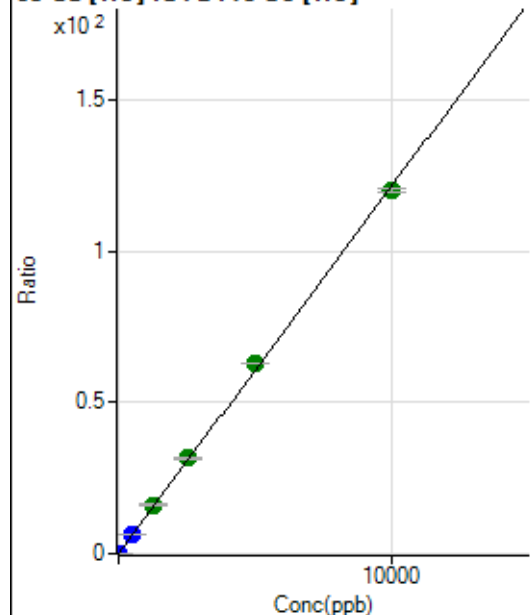
$$R = 0.9997$$

$$DL = 0.09323$$

$$BEC = 0.2579$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	428.90	0.0040	P	7.9
2	☐	2.000	1.972	3063.69	0.0280	P	2.7
3	☐	500.000	511.392	679629.69	6.2117	P	1.7
4	☐	1250.000	1327.734	1710730.64	16.1210	A	4.6
5	☐	2500.000	2600.196	3362164.12	31.5671	A	2.6
6	☐	5000.000	5173.748	6701071.36	62.8067	A	0.5
7	☐	10000.000	9877.790	12799847.45	119.9077	A	1.0
8	☐			177929.61	1.7449	P	3.5

$$y = 0.0121 * x + 0.0040$$

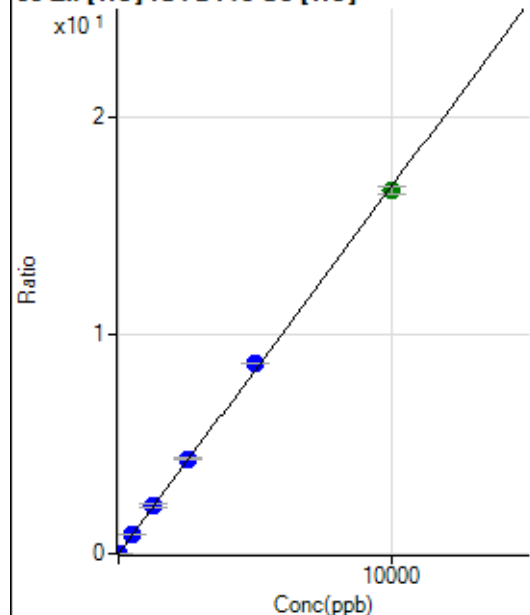
$$R = 0.9997$$

$$DL = 0.0786$$

$$BEC = 0.3315$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	185.56	0.0017	P	6.8
2	☐	2.000	1.970	553.35	0.0051	P	3.6
3	☐	500.000	515.227	94848.05	0.8669	P	1.6
4	☐	1250.000	1305.302	232757.17	2.1935	P	4.9
5	☐	2500.000	2582.346	462010.86	4.3379	P	2.8
6	☐	5000.000	5180.237	928225.17	8.7001	P	0.5
7	☐	10000.000	9881.621	1771144.87	16.5944	A	2.2
8	☐			26868.87	0.2634	P	2.2

$$y = 0.0017 * x + 0.0017$$

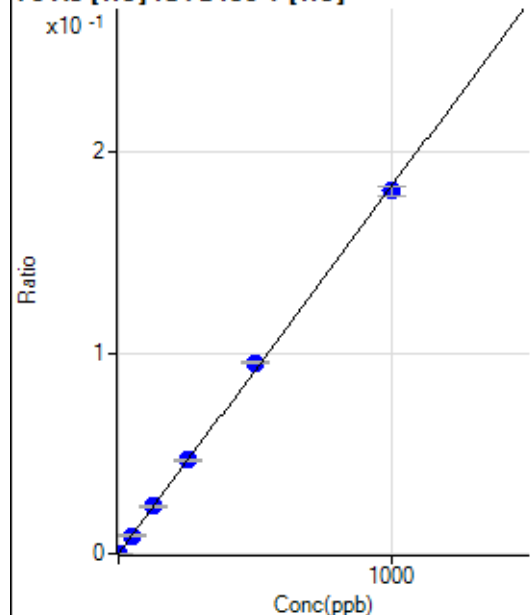
$$R = 0.9997$$

$$DL = 0.2129$$

$$BEC = 1.038$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.33	0.0000	P	33.6
2	☐	1.000	0.888	133.68	0.0002	P	3.4
3	☐	50.000	49.461	6960.75	0.0091	P	2.7
4	☐	125.000	129.408	17563.65	0.0237	P	4.2
5	☐	250.000	255.715	34932.73	0.0468	P	2.1
6	☐	500.000	520.286	70793.55	0.0951	P	0.8
7	☐	1000.000	987.904	136122.70	0.1806	P	2.6
8	☐			1898.99	0.0026	P	3.4

$$y = 1.8283E-004 * x + 1.2539E-005$$

$$R = 0.9997$$

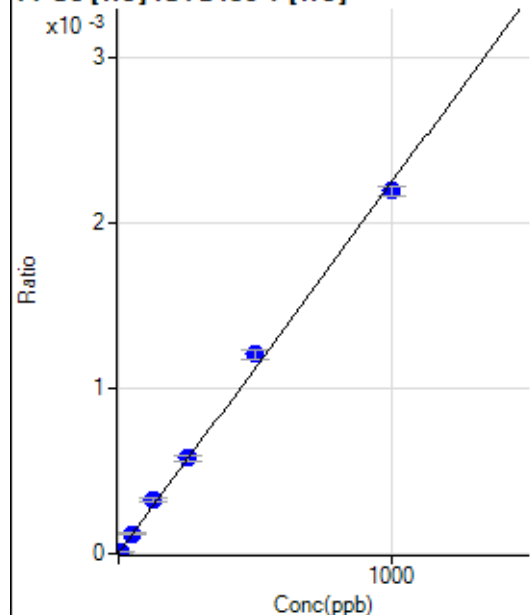
$$DL = 0.06906$$

$$BEC = 0.06858$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	5.000	3.853	8.89	0.0000	P	78.1
3	☐	50.000	52.112	92.22	0.0001	P	10.4
4	☐	125.000	142.985	240.00	0.0003	P	9.1
5	☐	250.000	255.798	431.12	0.0006	P	7.1
6	☐	500.000	537.171	898.93	0.0012	P	5.1
7	☐	1000.000	977.617	1655.67	0.0022	P	2.6
8	☐			21.11	0.0000	P	25.6

$$y = 2.2438\text{E-}006 * x + 2.9684\text{E-}006$$

$$R = 0.9988$$

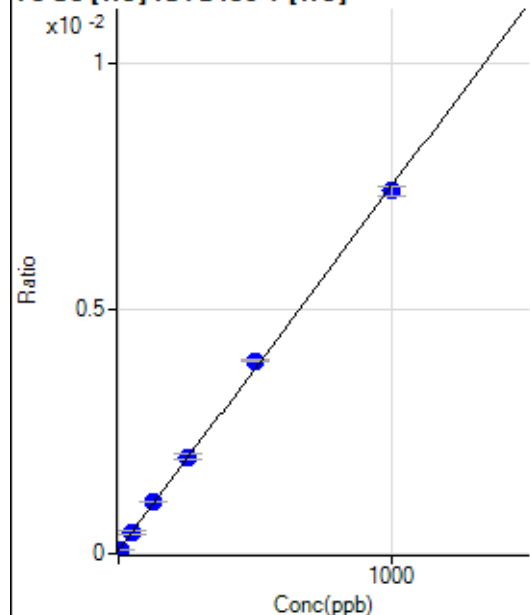
$$DL = 3.437$$

$$BEC = 1.323$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	49.67	0.0001	P	6.0
2	☐	5.000	3.319	70.01	0.0001	P	8.6
3	☐	50.000	48.283	327.37	0.0004	P	14.1
4	☐	125.000	133.724	787.77	0.0011	P	2.3
5	☐	250.000	257.249	1478.23	0.0020	P	7.4
6	☐	500.000	519.800	2926.61	0.0039	P	1.2
7	☐	1000.000	987.291	5584.34	0.0074	P	2.7
8	☐			106.68	0.0001	P	13.6

$$y = 7.4373\text{E-}006 * x + 6.6832\text{E-}005$$

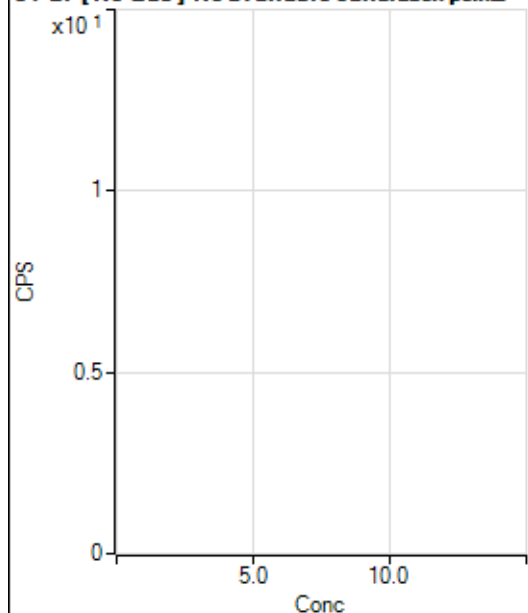
$$R = 0.9996$$

$$DL = 1.615$$

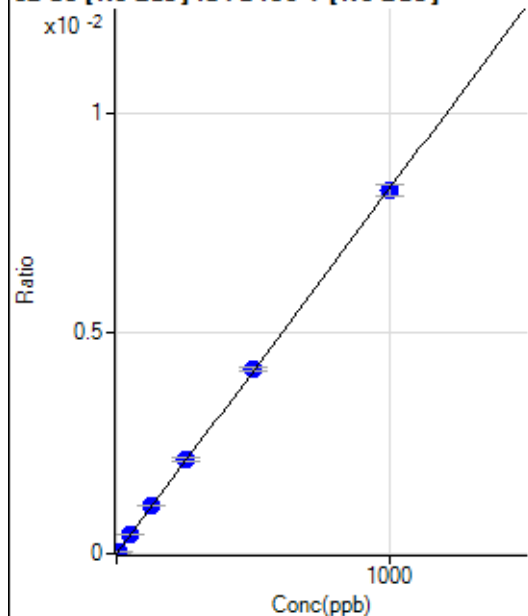
$$BEC = 8.986$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4695.61		P	2.5
2	☐			4555.46		P	6.3
3	☐			4305.10		P	6.5
4	☐			4468.67		P	2.7
5	☐			4622.22		P	8.5
6	☐			4542.11		P	6.9
7	☐			4842.51		P	2.8
8	☐			5109.53		P	2.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-1.73	0.0000	P	-2447.
2	☐	5.000	4.446	247.34	0.0000	P	22.8
3	☐	50.000	51.536	2966.11	0.0004	P	2.2
4	☐	125.000	131.970	7537.74	0.0011	P	1.9
5	☐	250.000	257.132	15000.51	0.0021	P	3.0
6	☐	500.000	506.784	30208.67	0.0042	P	1.9
7	☐	1000.000	993.880	57735.80	0.0082	P	3.3
8	☐			850.01	0.0001	P	6.4

$$y = 8.2892E-006 * x - 3.0997E-007$$

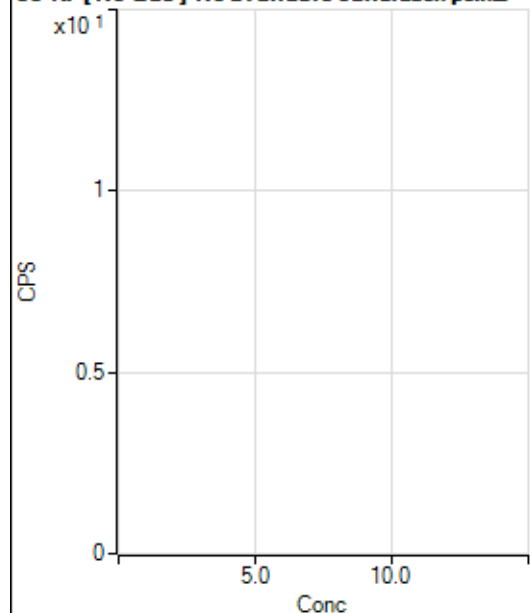
$$R = 0.9999$$

$$DL = 2.745$$

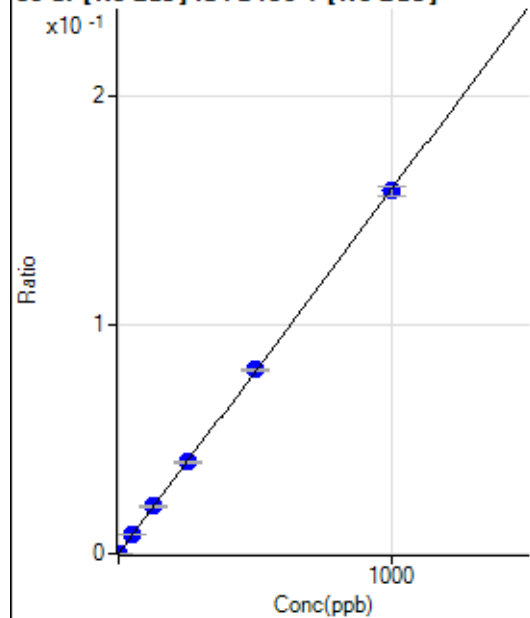
$$BEC = -0.03739$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			362.23		P	9.3
2	☐			366.67		P	10.3
3	☐			365.57		P	20.9
4	☐			356.67		P	7.3
5	☐			347.78		P	6.4
6	☐			340.01		P	6.9
7	☐			424.46		P	8.7
8	☐			331.12		P	10.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	522.25	0.0001	P	15.1
2	☐	1.000	1.027	1616.80	0.0002	P	5.9
3	☐	50.000	51.001	56771.21	0.0082	P	0.7
4	☐	125.000	129.234	141918.57	0.0206	P	1.2
5	☐	250.000	251.368	281437.71	0.0400	P	1.8
6	☐	500.000	505.155	577256.66	0.0803	P	1.5
7	☐	1000.000	996.501	1109243.81	0.1583	P	2.7
8	☐			21803.63	0.0032	P	2.5

$$y = 1.5874\text{E-}004 * x + 7.5380\text{E-}005$$

$$R = 1.0000$$

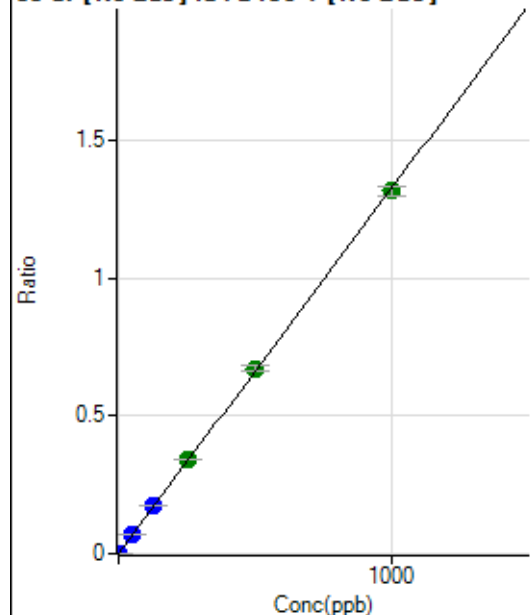
$$DL = 0.2156$$

$$BEC = 0.4749$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	39.7
2	☐	1.000	0.990	8941.99	0.0013	P	2.4
3	☐	50.000	51.536	475564.70	0.0685	P	1.1
4	☐	125.000	132.277	1210977.07	0.1757	P	1.0
5	☐	250.000	258.112	2413708.73	0.3428	A	0.8
6	☐	500.000	507.367	4846175.19	0.6739	A	2.4
7	☐	1000.000	993.302	9246981.37	1.3193	A	2.7
8	☐			185524.55	0.0273	P	2.2

$$y = 0.0013 * x + 3.1918E-006$$

$$R = 0.9999$$

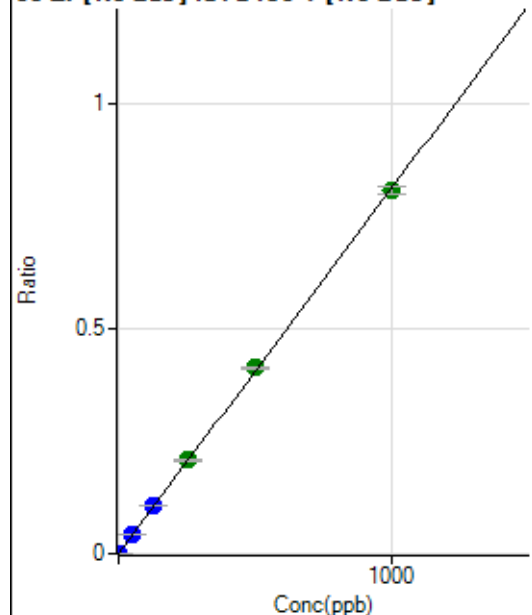
$$DL = 0.002862$$

$$BEC = 0.002403$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	297.24	0.0000	P	37.8
2	☐	1.000	0.957	5559.60	0.0008	P	7.4
3	☐	50.000	50.977	287669.76	0.0414	P	0.7
4	☐	125.000	131.084	733424.82	0.1064	P	0.5
5	☐	250.000	256.430	1465068.04	0.2081	A	2.5
6	☐	500.000	508.605	2968391.32	0.4127	A	1.7
7	☐	1000.000	993.281	5649792.83	0.8060	A	2.1
8	☐			83139.23	0.0122	P	3.8

$$y = 8.1142E-004 * x + 4.3012E-005$$

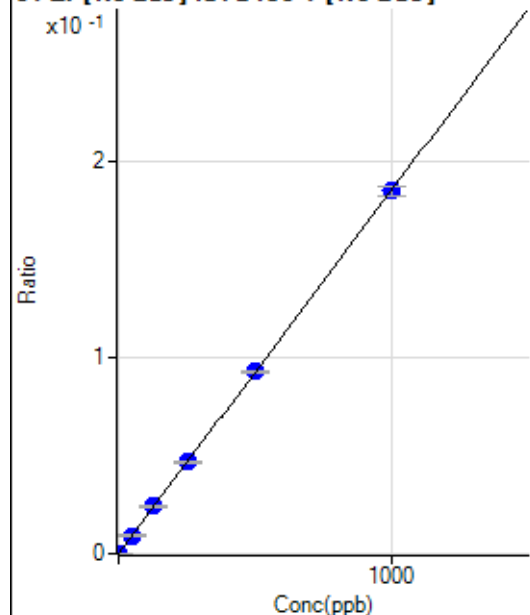
$$R = 0.9999$$

$$DL = 0.06012$$

$$BEC = 0.05301$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	63.1
2	☐	1.000	0.979	1302.88	0.0002	P	4.9
3	☐	50.000	50.207	64538.96	0.0093	P	1.5
4	☐	125.000	129.878	165524.63	0.0240	P	0.8
5	☐	250.000	252.671	328808.30	0.0467	P	1.9
6	☐	500.000	500.476	665314.01	0.0925	P	0.9
7	☐	1000.000	998.474	1293465.76	0.1845	P	2.6
8	☐			18735.15	0.0028	P	3.8

$$y = 1.8481\text{E-}004 * x + 1.1259\text{E-}005$$

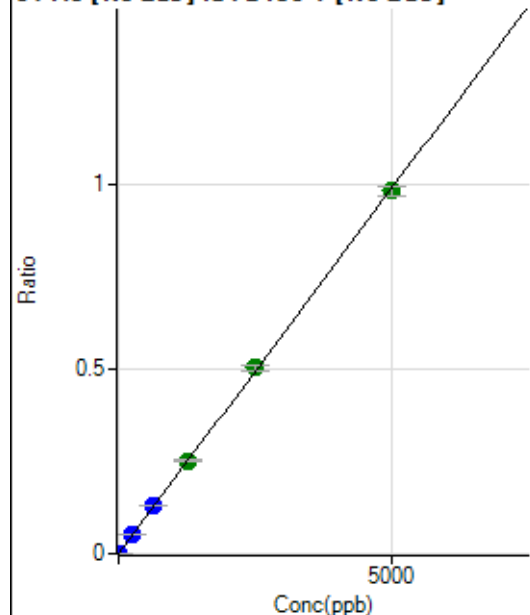
$$R = 1.0000$$

$$DL = 0.1153$$

$$BEC = 0.06092$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	130.56	0.0000	P	19.0
2	☐	5.000	4.598	6284.94	0.0009	P	3.1
3	☐	250.000	252.784	346941.00	0.0499	P	1.1
4	☐	625.000	650.786	885966.80	0.1285	P	0.9
5	☐	1250.000	1270.037	1765668.44	0.2508	A	2.4
6	☐	2500.000	2542.800	3611309.33	0.5022	A	2.3
7	☐	5000.000	4970.229	6879681.31	0.9815	A	2.5
8	☐			101373.95	0.0149	P	2.3

$$y = 1.9748\text{E-}004 * x + 1.8931\text{E-}005$$

$$R = 0.9999$$

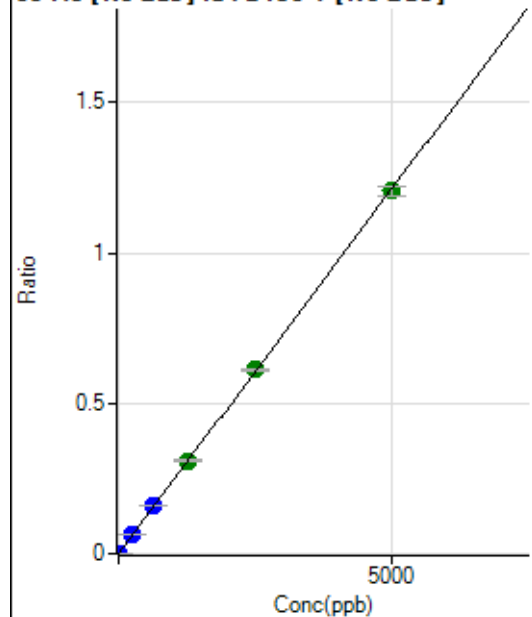
$$DL = 0.0546$$

$$BEC = 0.09586$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	45.8
2	☐	5.000	4.682	7721.79	0.0011	P	4.8
3	☐	250.000	254.494	428475.79	0.0617	P	1.0
4	☐	625.000	652.921	1090606.58	0.1582	P	0.2
5	☐	1250.000	1268.118	2163391.46	0.3073	A	2.0
6	☐	2500.000	2526.883	4403962.38	0.6123	A	1.2
7	☐	5000.000	4978.315	8455373.80	1.2064	A	2.8
8	☐			125202.54	0.0184	P	1.8

$$y = 2.4233\text{E-}004 * x + 4.0158\text{E-}006$$

$$R = 1.0000$$

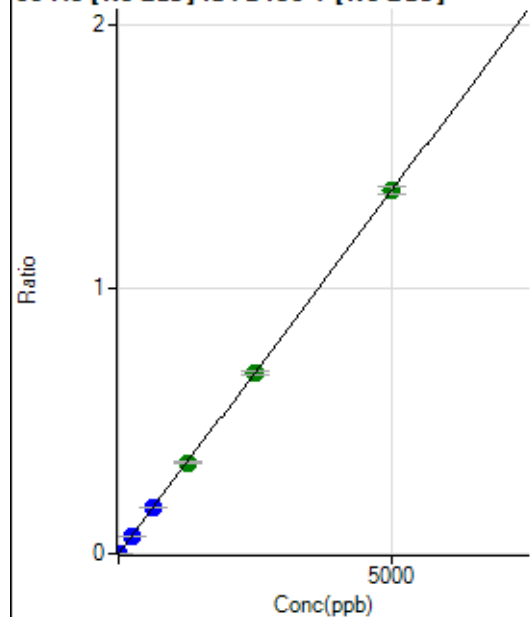
$$DL = 0.02276$$

$$BEC = 0.01657$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	47.9
2	☐	5.000	4.713	8797.50	0.0013	P	5.6
3	☐	250.000	248.696	473701.92	0.0682	P	1.2
4	☐	625.000	640.715	1210750.31	0.1757	P	0.4
5	☐	1250.000	1254.427	2421357.41	0.3439	A	1.9
6	☐	2500.000	2494.569	4918361.31	0.6839	A	1.8
7	☐	5000.000	4999.710	9607708.03	1.3707	A	2.1
8	☐			139835.81	0.0205	P	2.1

$$y = 2.7415\text{E-}004 * x + 5.5833\text{E-}006$$

$$R = 1.0000$$

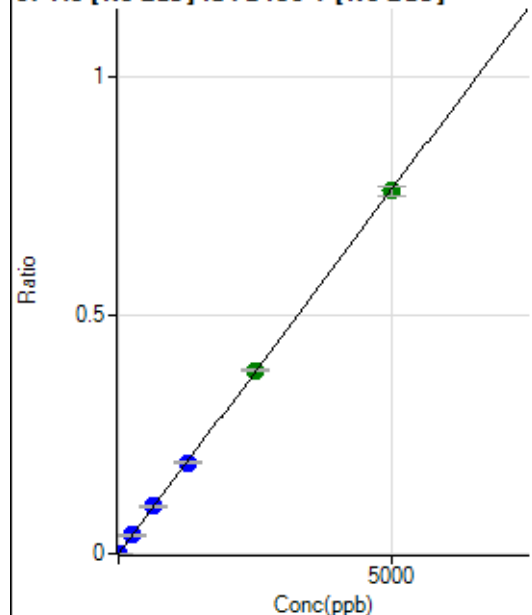
$$DL = 0.02929$$

$$BEC = 0.02037$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	19.3
2	☐	5.000	4.774	4953.81	0.0007	P	5.2
3	☐	250.000	251.269	265885.22	0.0383	P	1.7
4	☐	625.000	647.848	680121.76	0.0987	P	0.9
5	☐	1250.000	1253.221	1343901.23	0.1909	P	1.1
6	☐	2500.000	2522.146	2762856.53	0.3841	A	1.0
7	☐	5000.000	4985.203	5321701.90	0.7593	A	2.7
8	☐			76851.24	0.0113	P	2.1

$$y = 1.5231\text{E-}004 * x + 3.2078\text{E-}006$$

$$R = 1.0000$$

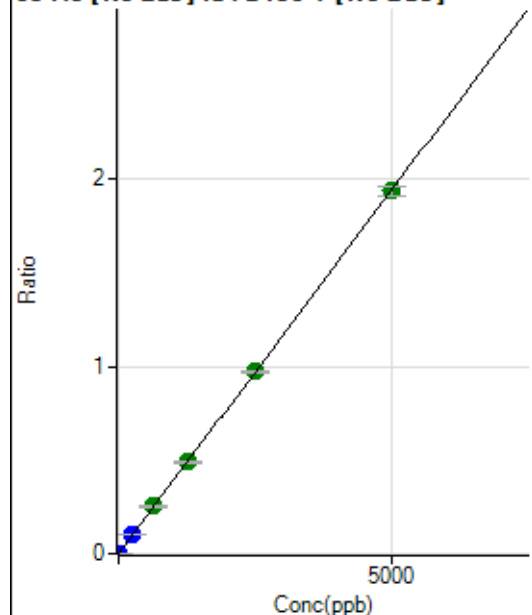
$$DL = 0.01221$$

$$BEC = 0.02106$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	55.56	0.0000	P	19.8
2	☐	5.000	4.577	12094.50	0.0018	P	2.7
3	☐	250.000	253.597	683463.00	0.0984	P	1.5
4	☐	625.000	648.677	1734393.20	0.2516	A	0.9
5	☐	1250.000	1257.502	3433766.26	0.4878	A	3.2
6	☐	2500.000	2506.828	6994119.86	0.9724	A	0.8
7	☐	5000.000	4991.571	13570399.95	1.9362	A	2.9
8	☐			197563.59	0.0290	P	1.3

$$y = 3.8790\text{E-}004 * x + 8.0113\text{E-}006$$

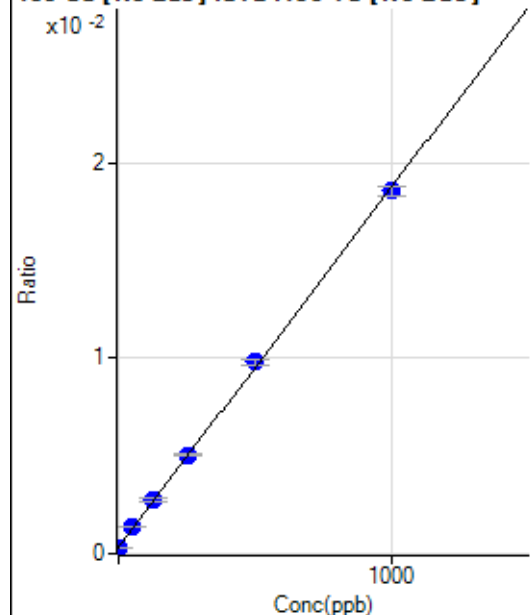
$$R = 1.0000$$

$$DL = 0.01228$$

$$BEC = 0.02065$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1455.67	0.0003	P	2.0
2	☐	1.000	0.145	1455.68	0.0003	P	5.2
3	☐	50.000	55.519	6054.28	0.0014	P	0.4
4	☐	125.000	131.535	12403.14	0.0028	P	3.9
5	☐	250.000	256.488	23562.26	0.0051	P	1.9
6	☐	500.000	514.225	46860.99	0.0098	P	2.5
7	☐	1000.000	990.173	87630.22	0.0186	P	2.7
8	☐			2594.76	0.0006	P	2.5

$$y = 1.8409\text{E-}005 * x + 3.3018\text{E-}004$$

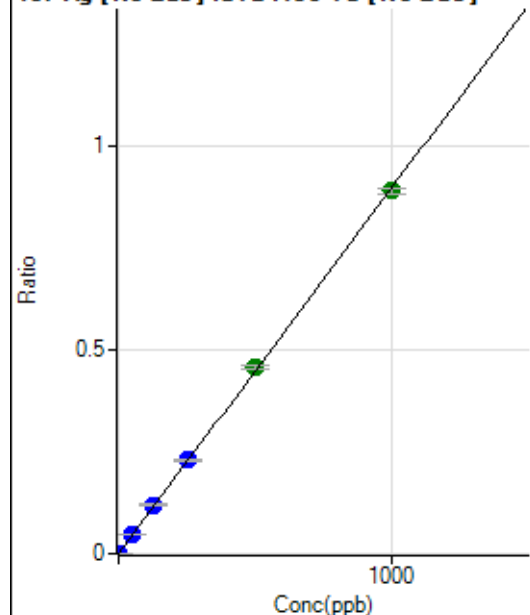
R = 0.9998

DL = 1.075

BEC = 17.94

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	38.1
2	☐	1.000	0.949	3758.96	0.0009	P	8.5
3	☐	50.000	52.816	211705.54	0.0473	P	1.9
4	☐	125.000	132.934	536426.41	0.1190	P	3.2
5	☐	250.000	256.542	1071230.92	0.2297	P	1.4
6	☐	500.000	508.944	2178952.74	0.4556	A	2.5
7	☐	1000.000	992.760	4197047.88	0.8887	A	1.3
8	☐			58839.93	0.0128	P	1.8

$$y = 8.9521\text{E-}004 * x + 9.3936\text{E-}006$$

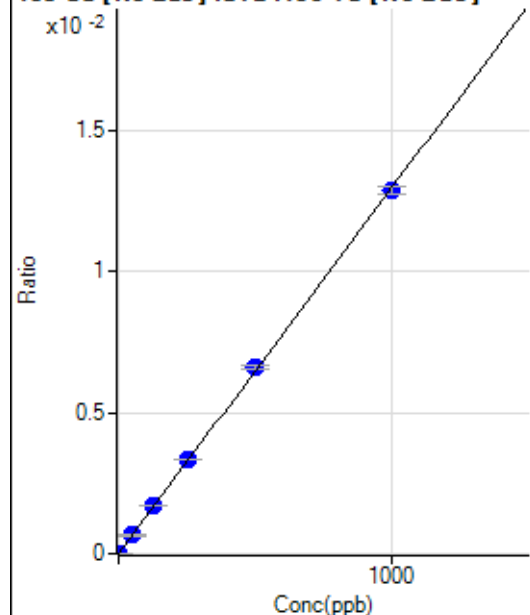
R = 0.9999

DL = 0.01199

BEC = 0.01049

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.17	0.0000	P	101.8
2	☐	1.000	1.371	81.95	0.0000	P	14.6
3	☐	50.000	50.727	2946.18	0.0007	P	4.8
4	☐	125.000	131.422	7684.16	0.0017	P	0.6
5	☐	250.000	256.220	15490.79	0.0033	P	0.4
6	☐	500.000	509.830	31598.79	0.0066	P	2.1
7	☐	1000.000	992.691	60743.98	0.0129	P	2.3
8	☐			923.65	0.0002	P	3.8

$$y = 1.2958\text{E-}005 * x + 9.6605\text{E-}007$$

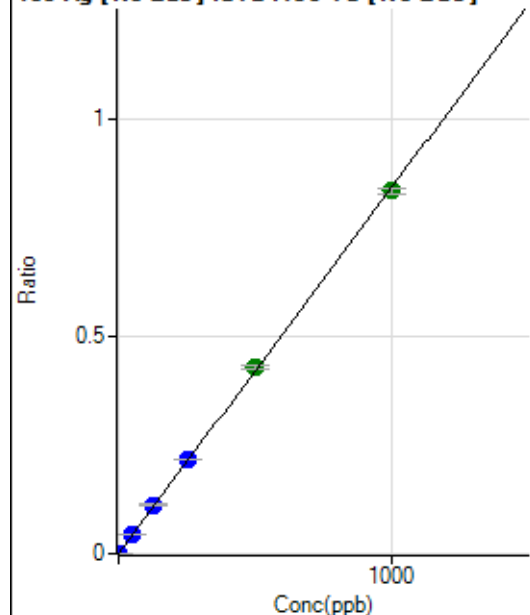
$$R = 0.9999$$

$$DL = 0.2276$$

$$BEC = 0.07455$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	69.4
2	☐	1.000	0.999	3711.70	0.0008	P	4.2
3	☐	50.000	52.699	198953.04	0.0444	P	1.5
4	☐	125.000	132.824	504945.74	0.1120	P	2.3
5	☐	250.000	257.221	1011642.68	0.2169	P	0.8
6	☐	500.000	510.822	2059989.87	0.4307	A	2.0
7	☐	1000.000	991.671	3948669.01	0.8362	A	1.7
8	☐			55228.00	0.0120	P	2.2

$$y = 8.4319\text{E-}004 * x + 5.7449\text{E-}006$$

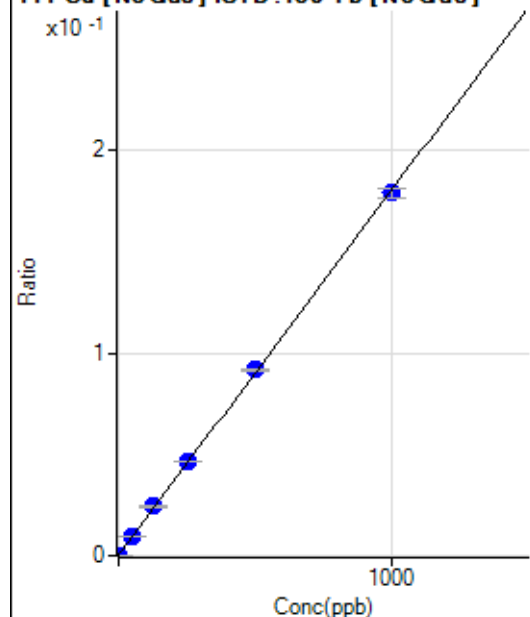
$$R = 0.9999$$

$$DL = 0.01419$$

$$BEC = 0.006813$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1024.39	0.0002	P	2.7
2	☐	1.000	1.082	1868.60	0.0004	P	2.6
3	☐	50.000	52.001	42973.57	0.0096	P	1.4
4	☐	125.000	133.608	109521.24	0.0243	P	2.9
5	☐	250.000	257.213	217165.41	0.0466	P	1.3
6	☐	500.000	508.116	438846.51	0.0918	P	1.3
7	☐	1000.000	992.963	845641.07	0.1791	P	2.5
8	☐			12567.66	0.0027	P	1.2

$$y = 1.8012\text{E-}004 * x + 2.3231\text{E-}004$$

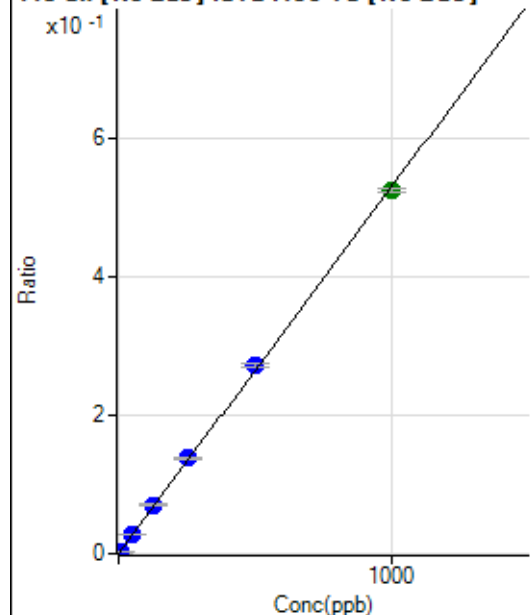
$$R = 0.9999$$

$$DL = 0.105$$

$$BEC = 1.29$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	225.01	0.0001	P	25.3
2	☐	5.000	5.016	11852.67	0.0027	P	3.9
3	☐	50.000	52.647	125096.96	0.0279	P	2.7
4	☐	125.000	133.348	318736.87	0.0707	P	2.5
5	☐	250.000	260.026	642853.86	0.1378	P	1.0
6	☐	500.000	514.436	1303918.38	0.2726	P	1.6
7	☐	1000.000	989.099	2475228.25	0.5241	A	0.9
8	☐			36426.92	0.0079	P	3.2

$$y = 5.2985\text{E-}004 * x + 5.1250\text{E-}005$$

$$R = 0.9998$$

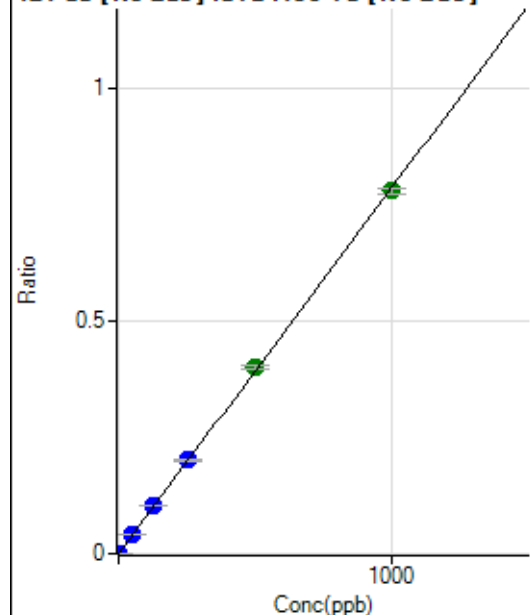
$$DL = 0.07347$$

$$BEC = 0.09673$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	3.4
2	☐	2.000	1.905	6557.32	0.0015	P	1.9
3	☐	50.000	51.949	182787.44	0.0408	P	2.0
4	☐	125.000	131.993	467660.48	0.1037	P	2.6
5	☐	250.000	256.033	938542.12	0.2012	P	2.0
6	☐	500.000	509.600	1915691.23	0.4005	A	1.4
7	☐	1000.000	992.720	3684587.54	0.7803	A	1.6
8	☐			53932.05	0.0117	P	1.0

$$y = 7.8597\text{E-}004 * x + 1.8915\text{E-}006$$

$$R = 0.9999$$

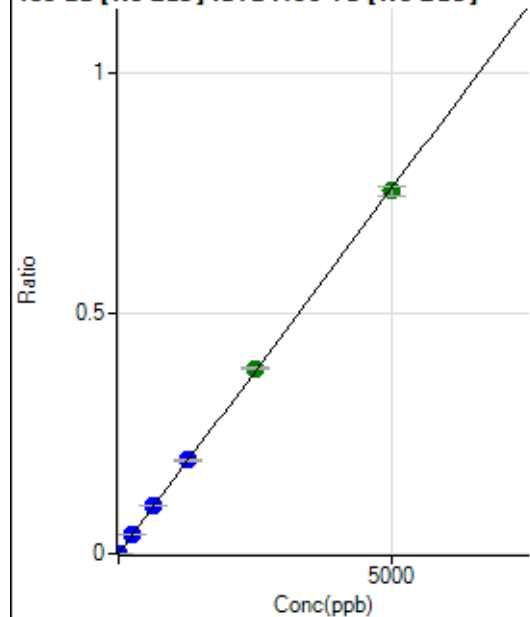
$$DL = 0.0002468$$

$$BEC = 0.002407$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	47.1
2	☐	10.000	9.426	6284.94	0.0014	P	4.6
3	☐	250.000	261.136	177859.61	0.0397	P	3.2
4	☐	625.000	656.660	450367.77	0.0999	P	2.6
5	☐	1250.000	1279.061	907622.59	0.1946	P	1.6
6	☐	2500.000	2536.447	1845777.80	0.3859	A	1.2
7	☐	5000.000	4969.998	3570389.23	0.7561	A	3.0
8	☐			57062.44	0.0124	P	2.3

$$y = 1.5214\text{E-}004 * x + 2.5474\text{E-}006$$

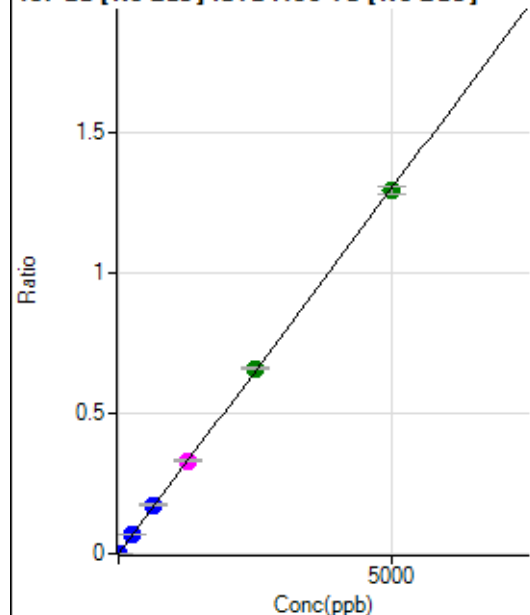
$$R = 0.9999$$

$$DL = 0.02367$$

$$BEC = 0.01674$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	86.6
2	☐	10.000	9.672	11029.75	0.0025	P	1.3
3	☐	250.000	261.228	304608.39	0.0680	P	1.8
4	☐	625.000	659.998	774769.29	0.1719	P	3.6
5	☐	1250.000	1274.253	1547978.11	0.3319	M	1.6
6	☐	2500.000	2540.221	3164566.67	0.6616	A	1.5
7	☐	5000.000	4968.891	6111743.41	1.2942	A	2.0
8	☐			98592.36	0.0215	P	1.4

$$y = 2.6047\text{E-}004 * x + 2.4741\text{E-}006$$

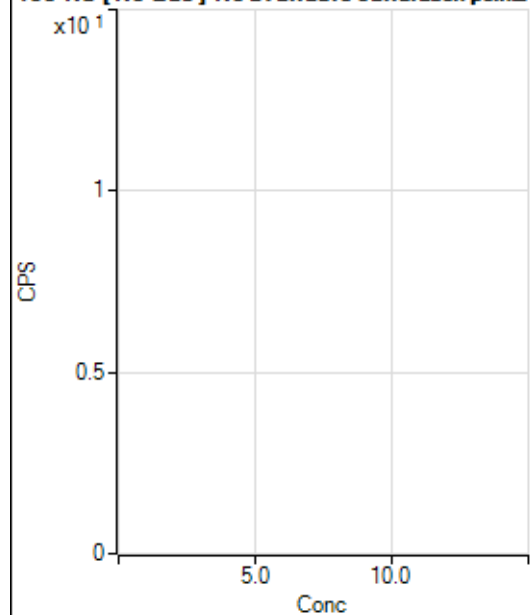
$$R = 0.9999$$

$$DL = 0.02468$$

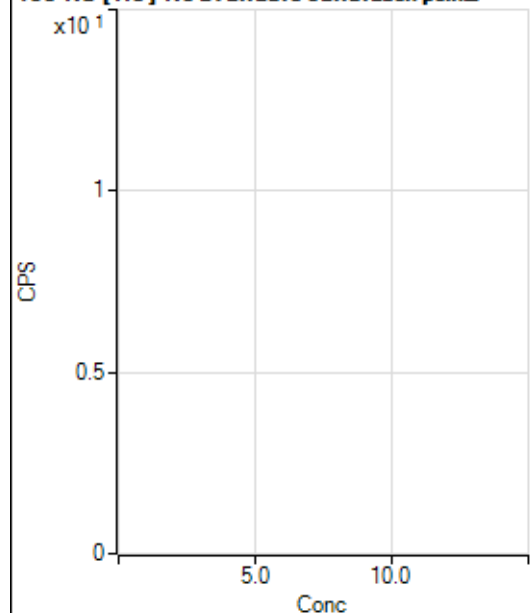
$$BEC = 0.009499$$

Weight: <None>

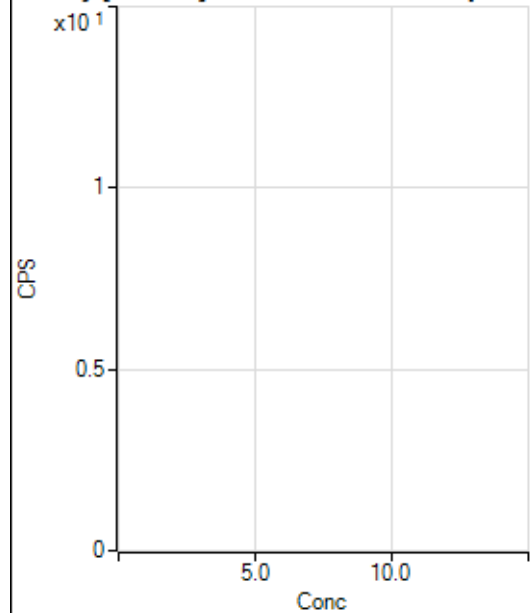
Min Conc: 0

150 Nd [No Gas] No available calibration points

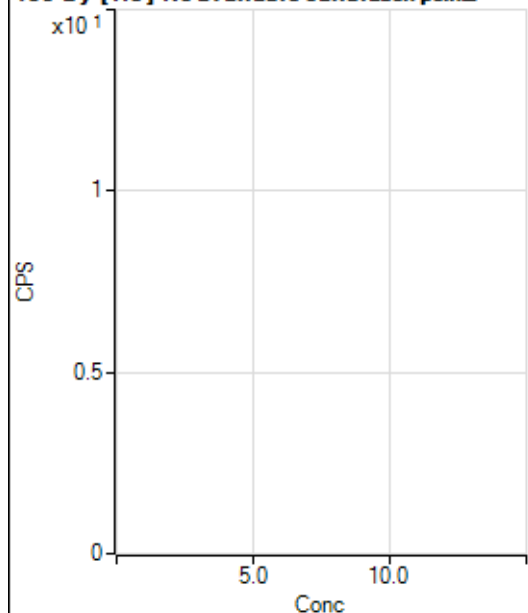
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			4.44		P	173.2
3	☐			11.11		P	91.7
4	☐			15.56		P	89.2
5	☐			20.00		P	33.4
6	☐			75.56		P	35.7
7	☐			157.78		P	17.6
8	☐			15.56		P	49.5

150 Nd [He] No available calibration points

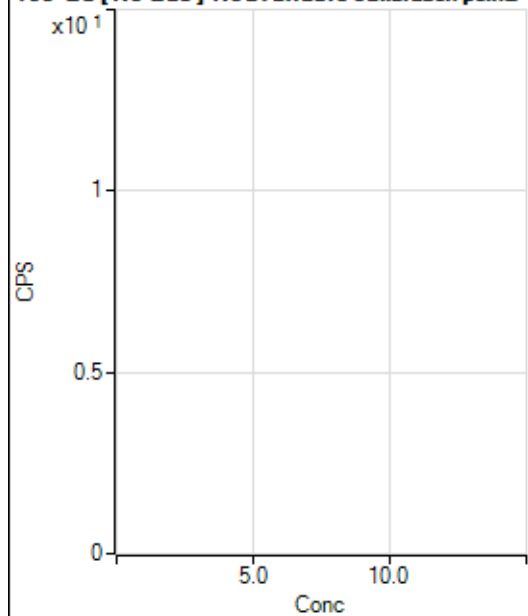
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			2.22		P	173.2
5	☐			2.22		P	86.6
6	☐			2.22		P	86.6
7	☐			11.11		P	17.3
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

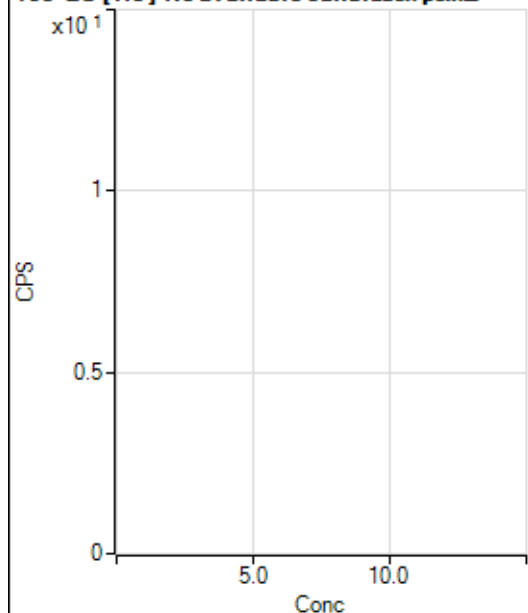
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	50.0
2	☐			19.44		P	65.5
3	☐			13.89		P	91.6
4	☐			13.89		P	91.6
5	☐			25.00		P	33.3
6	☐			66.67		P	33.1
7	☐			105.56		P	37.3
8	☐			183.34		P	40.4

156 Dy [He] No available calibration points

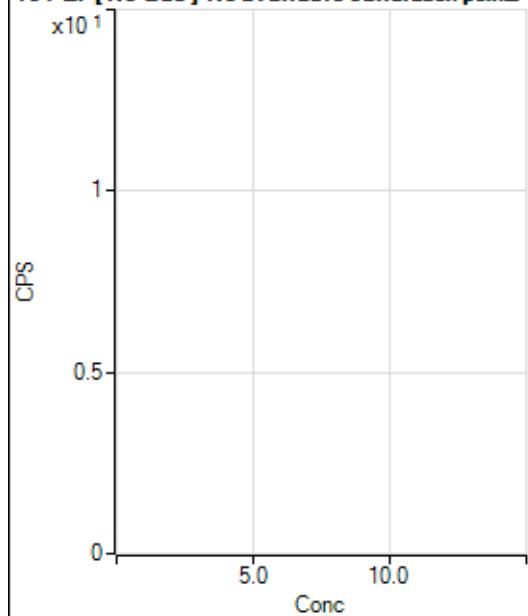
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	114.6
2	☐			2.22		P	173.2
3	☐			7.78		P	89.2
4	☐			5.55		P	124.9
5	☐			15.56		P	32.7
6	☐			11.11		P	45.8
7	☐			28.89		P	43.7
8	☐			105.56		P	22.8

160 Gd [No Gas] Noavailable calibration poin_

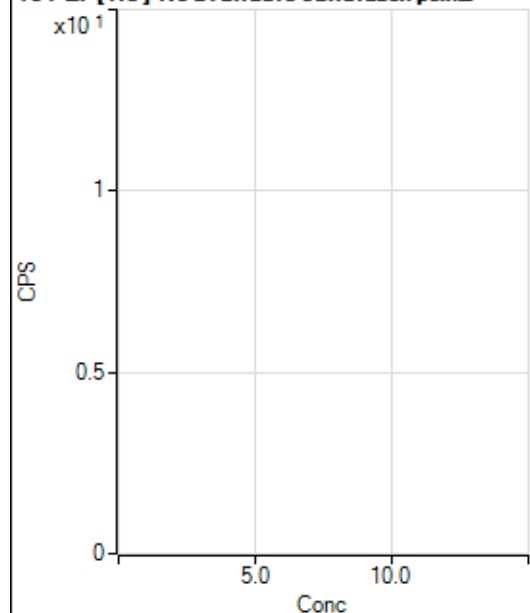
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			27.78		P	75.5
2	☐			22.22		P	78.1
3	☐			30.56		P	56.8
4	☐			41.67		P	20.0
5	☐			41.67		P	20.0
6	☐			80.56		P	57.0
7	☐			55.56		P	22.9
8	☐			216.67		P	13.9

160 Gd [He] No available calibration points

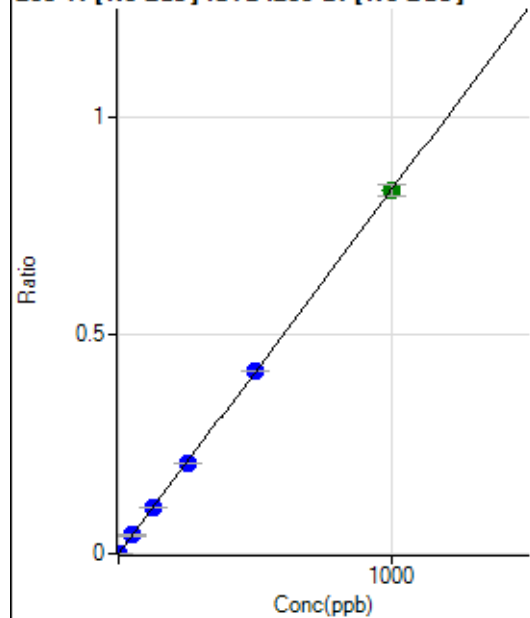
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	57.7
2	☐			11.11		P	96.4
3	☐			17.78		P	39.0
4	☐			7.78		P	24.7
5	☐			8.89		P	57.3
6	☐			24.44		P	7.9
7	☐			33.33		P	10.0
8	☐			96.67		P	30.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	0.0
2	☐			22.22		P	21.6
3	☐			19.45		P	24.7
4	☐			27.78		P	45.8
5	☐			19.44		P	99.0
6	☐			27.78		P	17.3
7	☐			30.56		P	78.7
8	☐			69.45		P	34.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			5.55		P	69.3
3	☐			11.11		P	62.5
4	☐			13.33		P	50.0
5	☐			8.89		P	94.4
6	☐			14.45		P	93.2
7	☐			14.44		P	35.3
8	☐			12.22		P	41.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	56.2
2	☐	1.000	0.954	1805.73	0.0008	P	1.7
3	☐	50.000	51.030	97498.58	0.0425	P	4.5
4	☐	125.000	127.990	247026.41	0.1065	P	0.2
5	☐	250.000	248.701	494305.36	0.2070	P	0.3
6	☐	500.000	504.014	1024476.55	0.4194	P	0.4
7	☐	1000.000	997.892	2011831.95	0.8304	A	3.4
8	☐			28582.09	0.0127	P	3.7

$$y = 8.3215E-004 * x + 1.6013E-005$$

$$R = 1.0000$$

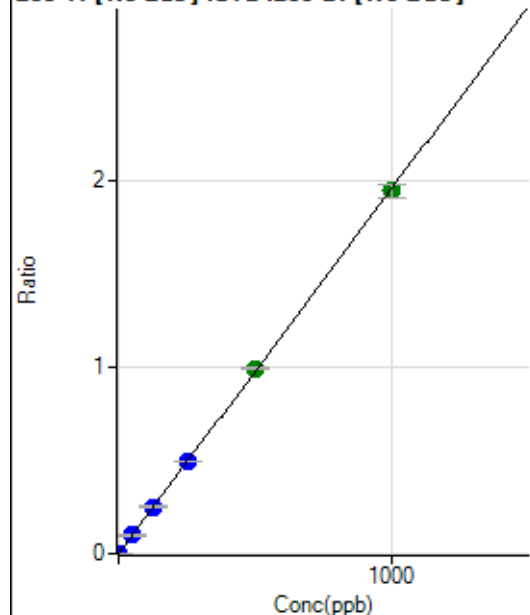
$$DL = 0.03246$$

$$BEC = 0.01924$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.67	0.0000	P	50.9
2	☐	1.000	0.938	4131.34	0.0019	P	0.8
3	☐	50.000	50.494	226852.71	0.0988	P	2.2
4	☐	125.000	128.927	584898.89	0.2522	P	1.2
5	☐	250.000	252.406	1179297.26	0.4938	P	1.0
6	☐	500.000	508.642	2430444.41	0.9951	A	0.7
7	☐	1000.000	994.562	4714095.07	1.9457	A	3.4
8	☐			68254.92	0.0303	P	2.9

$$y = 0.0020 * x + 1.8440E-005$$

$$R = 0.9999$$

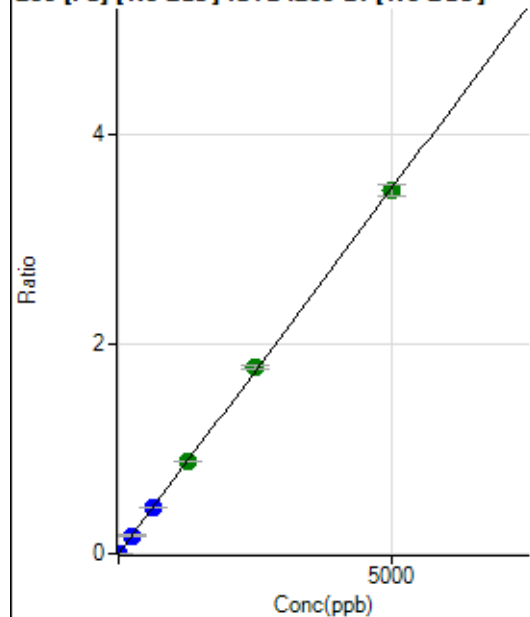
$$DL = 0.0144$$

$$BEC = 0.009425$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	320.38	0.0001	P	16.1
2	☐	1.000	0.902	1720.52	0.0008	P	5.9
3	☐	250.000	247.864	397632.59	0.1732	P	2.6
4	☐	625.000	631.635	1022924.45	0.4411	P	0.5
5	☐	1250.000	1259.094	2099833.45	0.8792	A	0.1
6	☐	2500.000	2555.873	4358550.90	1.7846	A	1.6
7	☐	5000.000	4969.067	8405809.68	3.4695	A	3.3
8	☐			117085.24	0.0520	P	2.8

$$y = 6.9818E-004 * x + 1.4276E-004$$

$$R = 0.9999$$

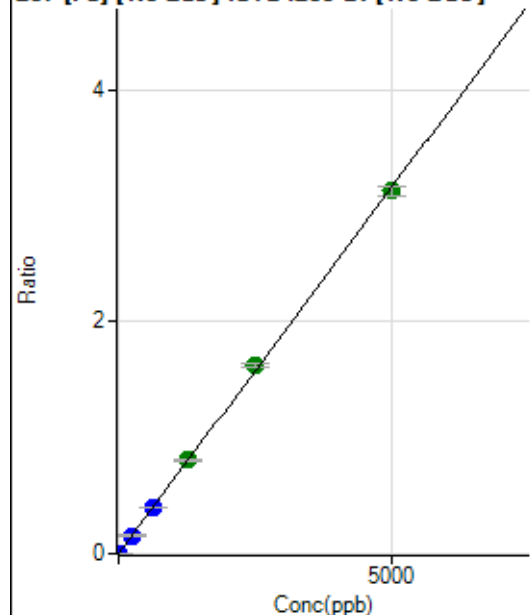
$$DL = 0.09872$$

$$BEC = 0.2045$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	253.71	0.0001	P	8.8
2	☐	1.000	0.826	1414.92	0.0006	P	3.1
3	☐	250.000	248.707	360940.78	0.1573	P	4.0
4	☐	625.000	637.853	934710.35	0.4031	P	1.2
5	☐	1250.000	1275.650	1925212.15	0.8061	A	0.5
6	☐	2500.000	2572.251	3969182.03	1.6253	A	2.9
7	☐	5000.000	4955.920	7587467.70	3.1314	A	2.4
8	☐			106123.93	0.0471	P	2.4

$$y = 6.3182\text{E-}004 * x + 1.1264\text{E-}004$$

$$R = 0.9998$$

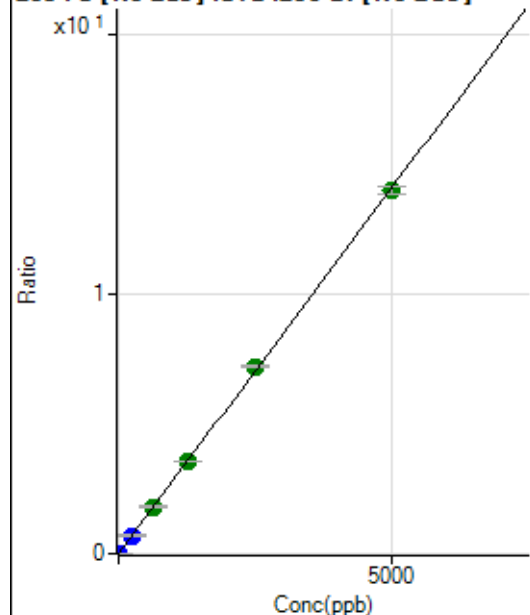
$$DL = 0.04681$$

$$BEC = 0.1783$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1064.85	0.0005	P	9.2
2	☐	1.000	0.885	6610.04	0.0030	P	3.9
3	☐	250.000	249.277	1613835.16	0.7030	P	2.8
4	☐	625.000	640.550	4186646.51	1.8056	A	1.3
5	☐	1250.000	1268.716	8540311.33	3.5759	A	0.8
6	☐	2500.000	2559.440	17617162.42	7.2134	A	1.5
7	☐	5000.000	4963.693	33896579.40	13.9890	A	2.2
8	☐			471972.26	0.2095	P	3.2

$$y = 0.0028 * x + 4.7407\text{E-}004$$

$$R = 0.9999$$

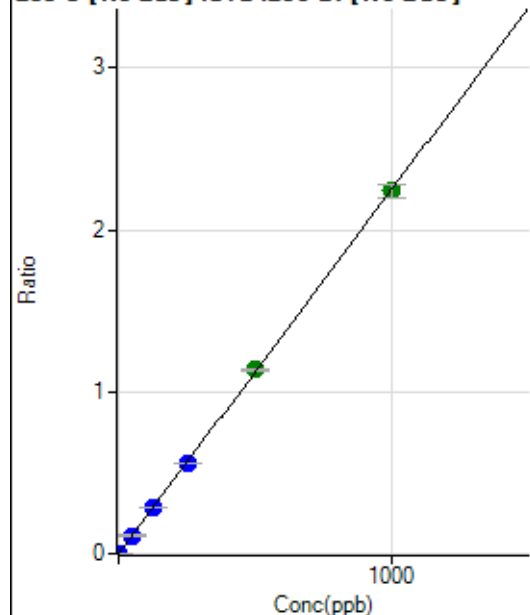
$$DL = 0.04661$$

$$BEC = 0.1682$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	102.7
2	☐	1.000	0.872	4375.88	0.0020	P	1.6
3	☐	50.000	49.761	256774.03	0.1118	P	1.8
4	☐	125.000	126.148	657353.04	0.2835	P	1.1
5	☐	250.000	247.606	1328875.83	0.5565	P	1.2
6	☐	500.000	506.799	2781835.74	1.1389	A	0.9
7	☐	1000.000	997.068	5428326.82	2.2407	A	4.0
8	☐			78005.84	0.0346	P	2.9

$$y = 0.0022 * x + 3.7980E-006$$

$$R = 1.0000$$

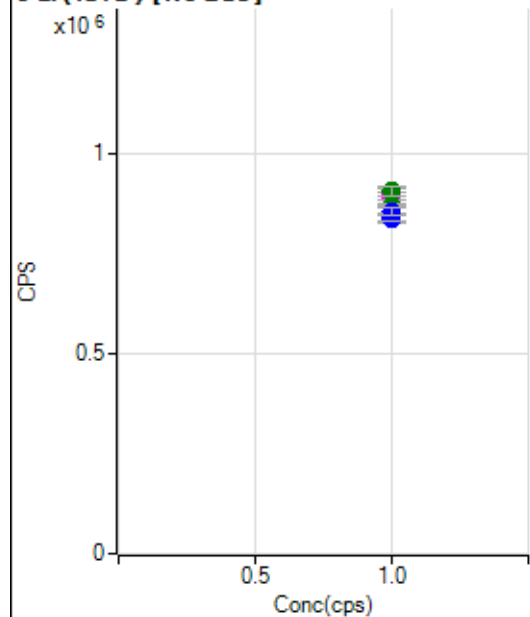
$$DL = 0.005206$$

$$BEC = 0.00169$$

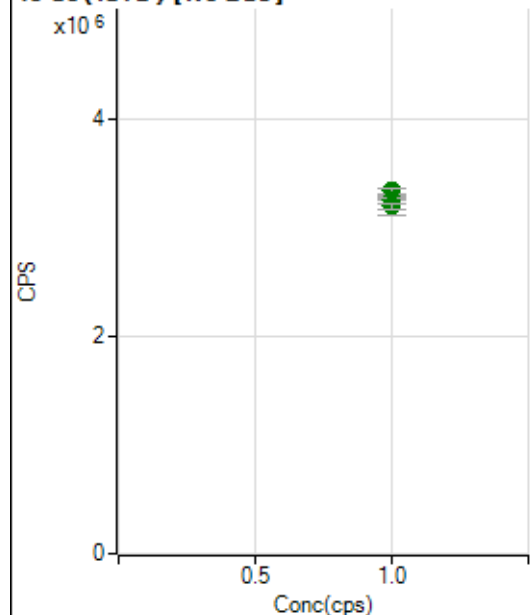
Weight: <None>

Min Conc: 0

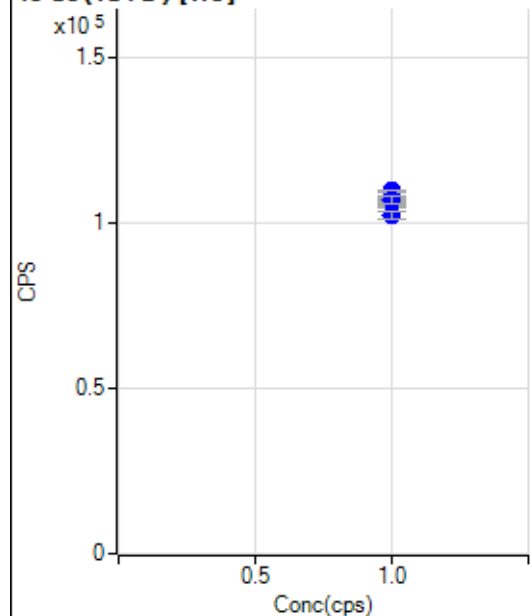
6 Li (ISTD) [No Gas]



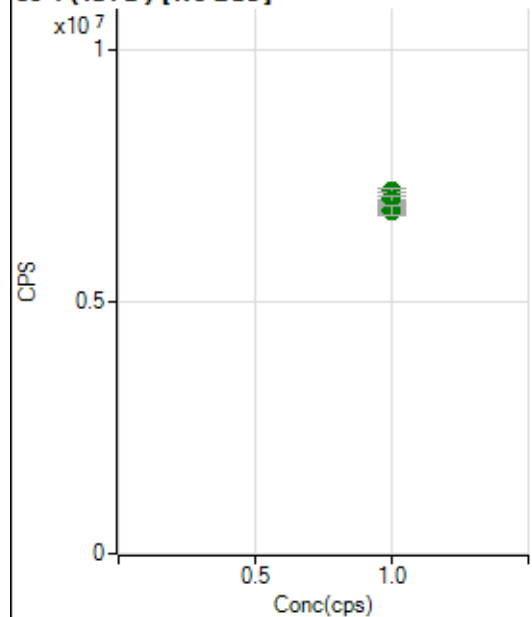
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		840017.61		P	3.1
2	☐	1.000		839297.31		P	1.9
3	☐	1.000		889589.20		M	1.1
4	☐	1.000		899538.53		M	1.0
5	☐	1.000		907612.63		A	1.2
6	☐	1.000		904798.41		A	2.7
7	☐	1.000		872212.16		A	0.6
8	☐	1.000		856155.82		P	2.3

45 Sc (ISTD) [No Gas]

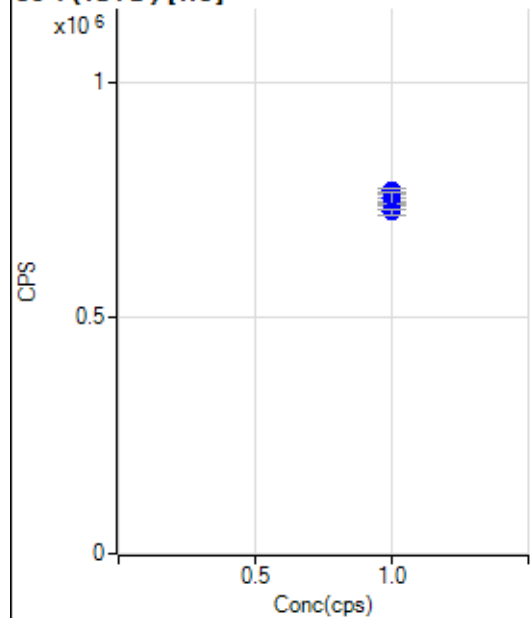
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3194979.85		A	4.7
2	☐	1.000		3216492.17		A	2.7
3	☐	1.000		3280351.06		A	1.8
4	☐	1.000		3276501.79		A	1.2
5	☐	1.000		3299680.99		A	0.7
6	☐	1.000		3339432.07		A	1.8
7	☐	1.000		3252844.39		A	1.7
8	☐	1.000		3196103.53		A	2.1

45 Sc (ISTD) [He]

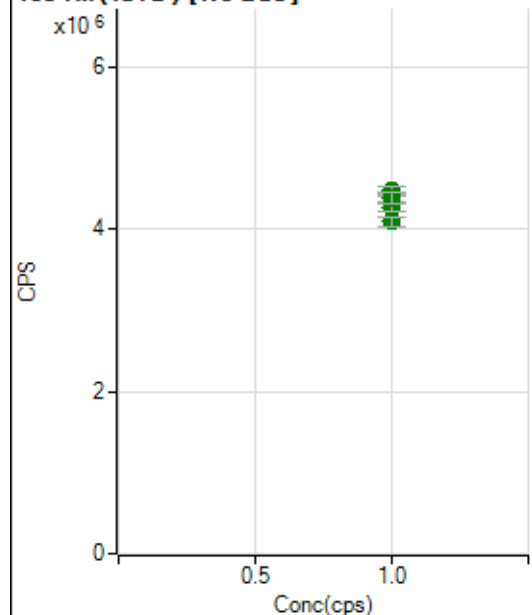
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		106502.93		P	1.6
2	☐	1.000		109564.62		P	0.6
3	☐	1.000		109422.41		P	0.9
4	☐	1.000		106239.34		P	3.7
5	☐	1.000		106549.10		P	2.2
6	☐	1.000		106692.55		P	0.6
7	☐	1.000		106761.82		P	2.0
8	☐	1.000		102030.56		P	2.4

89 Y (ISTD) [No Gas]

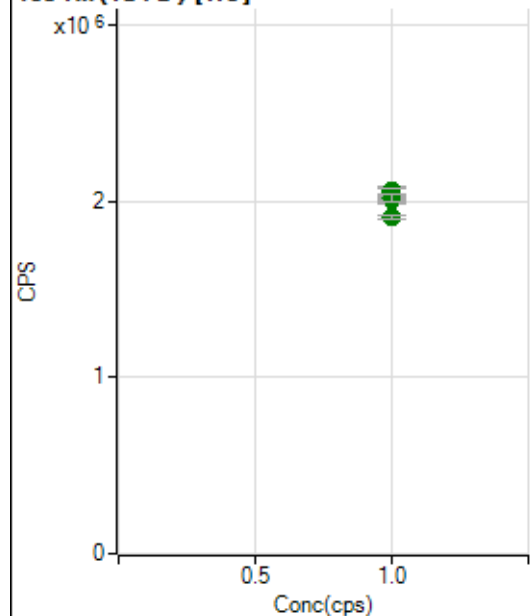
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6904657.67		A	3.5
2	☐	1.000		6782036.15		A	1.3
3	☐	1.000		6947686.84		A	0.9
4	☐	1.000		6892681.15		A	0.5
5	☐	1.000		7041139.83		A	1.6
6	☐	1.000		7192727.81		A	1.2
7	☐	1.000		7011381.42		A	2.0
8	☐	1.000		6807409.20		A	2.9

89 Y (ISTD) [He]

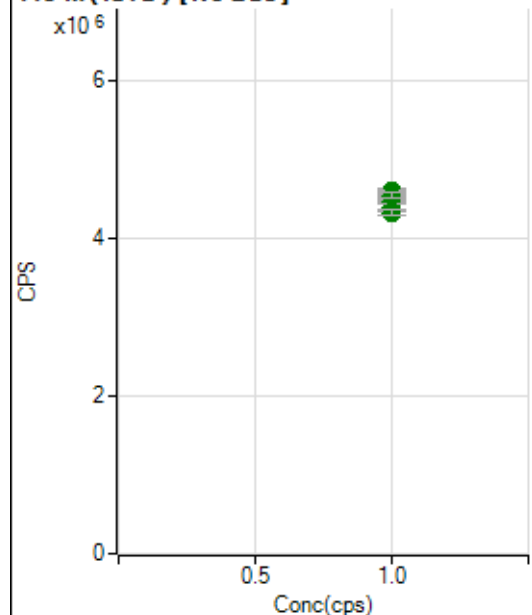
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		742927.34		P	1.2
2	☐	1.000		764618.33		P	0.8
3	☐	1.000		768841.46		P	1.3
4	☐	1.000		742581.77		P	3.3
5	☐	1.000		747163.06		P	1.8
6	☐	1.000		744145.63		P	1.0
7	☐	1.000		753937.94		P	2.7
8	☐	1.000		723480.93		P	2.0

103 Rh (ISTD) [No Gas]

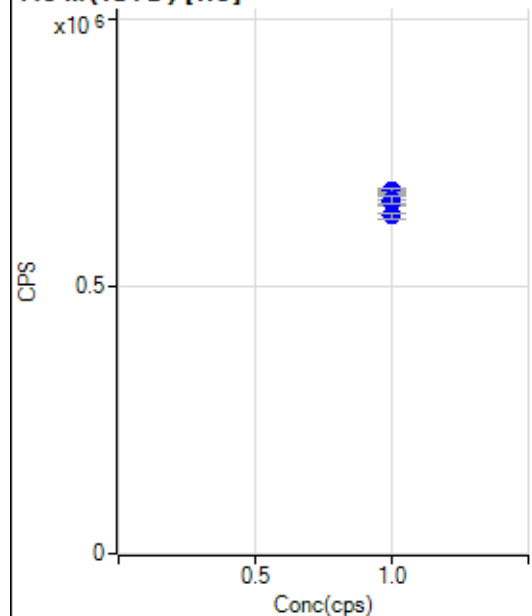
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4311982.69		A	4.7
2	☐	1.000		4274510.91		A	2.3
3	☐	1.000		4389179.31		A	2.8
4	☐	1.000		4382470.71		A	1.8
5	☐	1.000		4420219.93		A	0.2
6	☐	1.000		4473503.44		A	2.0
7	☐	1.000		4377641.72		A	3.2
8	☐	1.000		4090390.54		A	3.0

103 Rh (ISTD) [He]

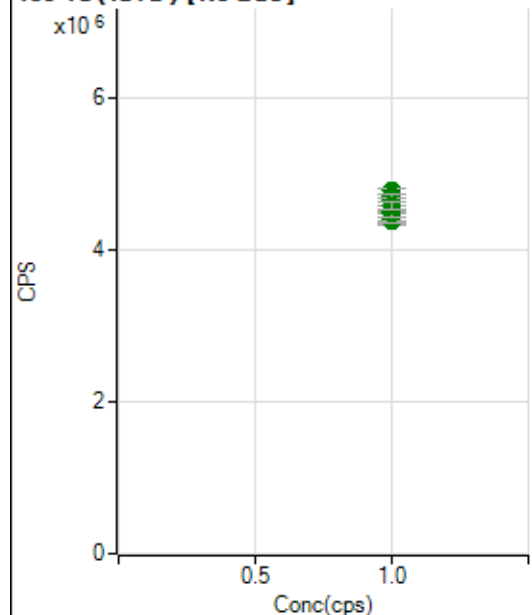
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2025611.13		A	0.6
2	☐	1.000		2058517.73		A	2.3
3	☐	1.000		2060749.19		A	1.4
4	☐	1.000		2010190.14		A	2.5
5	☐	1.000		2023283.25		A	0.9
6	☐	1.000		2017878.79		A	1.7
7	☐	1.000		2018090.46		A	1.9
8	☐	1.000		1913754.55		A	1.1

115 In (ISTD) [No Gas]

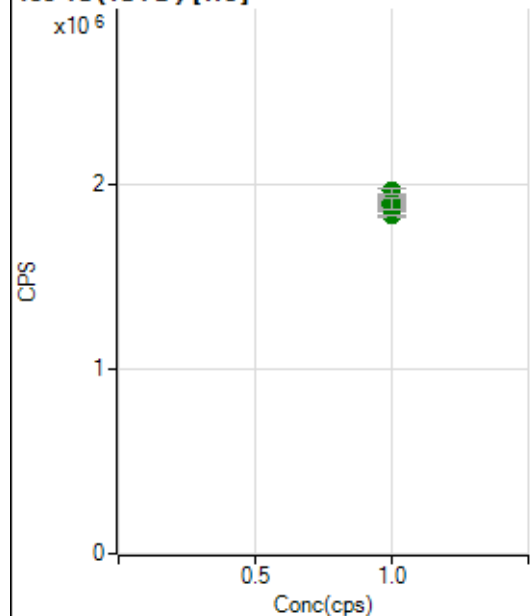
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4452981.14		A	3.9
2	☐	1.000		4391393.05		A	2.5
3	☐	1.000		4462606.77		A	0.9
4	☐	1.000		4516736.66		A	0.8
5	☐	1.000		4593124.78		A	1.1
6	☐	1.000		4581471.29		A	1.2
7	☐	1.000		4539436.66		A	1.3
8	☐	1.000		4317835.24		A	1.4

115 In (ISTD) [He]

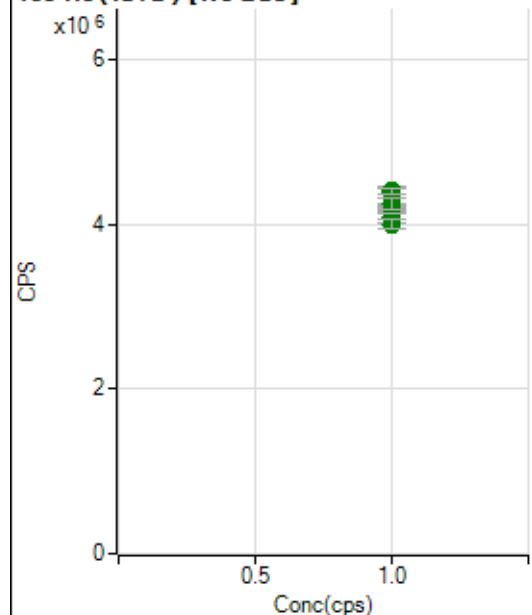
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		659158.13		P	1.0
2	☐	1.000		678229.15		P	0.9
3	☐	1.000		679121.97		P	1.5
4	☐	1.000		663420.43		P	3.5
5	☐	1.000		661039.47		P	2.3
6	☐	1.000		658916.04		P	0.7
7	☐	1.000		661000.91		P	2.2
8	☐	1.000		632387.75		P	1.9

159 Tb (ISTD) [No Gas]

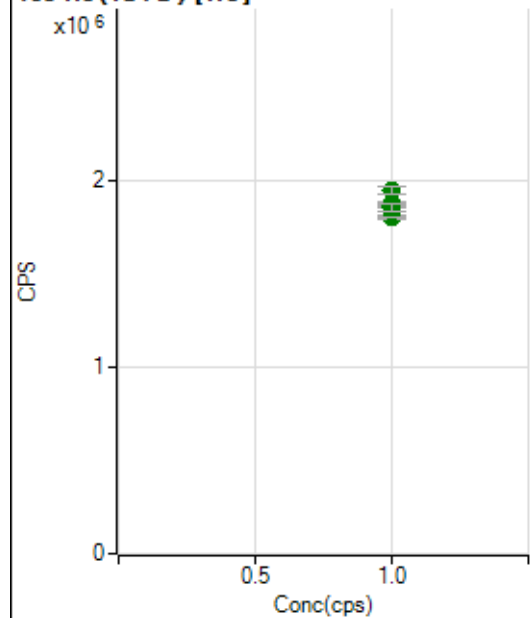
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4407396.29		A	3.4
2	☐	1.000		4374162.54		A	1.0
3	☐	1.000		4477356.25		A	1.4
4	☐	1.000		4510432.92		A	3.4
5	☐	1.000		4664546.77		A	1.2
6	☐	1.000		4783450.97		A	1.4
7	☐	1.000		4722814.55		A	1.0
8	☐	1.000		4593112.39		A	2.0

159 Tb (ISTD) [He]

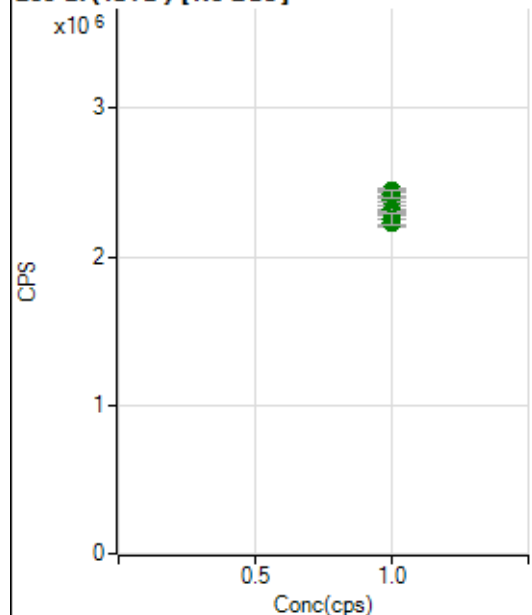
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1837404.49		A	1.2
2	☐	1.000		1887195.46		A	2.1
3	☐	1.000		1908171.97		A	2.7
4	☐	1.000		1862940.60		A	3.0
5	☐	1.000		1887290.14		A	2.9
6	☐	1.000		1885086.14		A	1.0
7	☐	1.000		1964460.37		A	1.7
8	☐	1.000		1898395.08		A	3.4

165 Ho (ISTD) [No Gas]

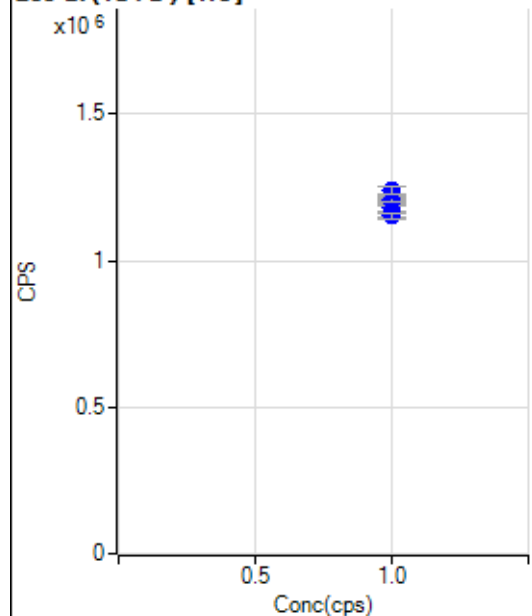
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4087931.52		A	3.3
2	☐	1.000		4006254.86		A	2.8
3	☐	1.000		4184009.08		A	0.8
4	☐	1.000		4189113.16		A	2.3
5	☐	1.000		4248081.00		A	0.8
6	☐	1.000		4404357.35		A	3.2
7	☐	1.000		4409346.76		A	1.7
8	☐	1.000		4253921.14		A	3.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1803169.87		A	1.5
2	☐	1.000		1874800.77		A	0.7
3	☐	1.000		1869255.23		A	1.6
4	☐	1.000		1833151.42		A	3.0
5	☐	1.000		1861545.40		A	2.9
6	☐	1.000		1878060.34		A	0.4
7	☐	1.000		1945696.36		A	2.2
8	☐	1.000		1860523.53		A	2.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2252209.31		A	4.3
2	☐	1.000		2229110.09		A	1.9
3	☐	1.000		2296577.94		A	2.1
4	☐	1.000		2318952.85		A	1.6
5	☐	1.000		2388294.29		A	1.1
6	☐	1.000		2442489.06		A	0.9
7	☐	1.000		2423784.29		A	2.0
8	☐	1.000		2254443.32		A	3.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1156908.11		P	1.7
2	☐	1.000		1203016.33		P	0.9
3	☐	1.000		1204854.98		P	1.0
4	☐	1.000		1183959.98		P	3.9
5	☐	1.000		1200617.54		P	1.7
6	☐	1.000		1210141.73		P	1.4
7	☐	1.000		1238301.53		P	2.1
8	☐	1.000		1152149.34		P	2.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8073120 MS.b
Acq. Date-Time 2020-07-31 12:47:54
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		2426	24258.89			1.877	5.000
24		26247	262469.40			1.525	5.000
25		3661	36611.28			1.789	5.000
26		4204	42039.68			1.602	5.000
59		22010	220098.02			1.569	5.000
113		3493	34929.88			1.452	5.000
115		10752	107520.14			2.313	5.000
206		3102	31018.25			1.644	5.000
207		2591	25905.30			1.725	5.000
208		6290	62903.20			2.052	5.000
220		1	7.00			16.751	

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

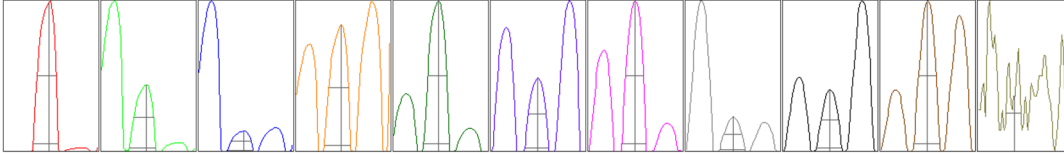
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2403	2452	2469	2448	2357
24	26070	26420	26592	26525	25628
25	3624	3677	3716	3722	3567
26	4151	4228	4271	4255	4116
59	21668	22050	22111	22515	21705
113	3473	3503	3540	3533	3416
115	10912	10837	10858	10844	10310
206	3061	3105	3139	3162	3041
207	2536	2596	2613	2649	2559
208	6136	6291	6311	6486	6227

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4247.47	8.95	8.90 - 9.10	
24	45223.89	23.95	23.90 - 24.10	
25	5977.02	24.95	24.90 - 25.10	
26	7061.71	25.95	25.90 - 26.10	
59	38499.49	58.95	58.90 - 59.10	
113	6603.29	113.00	112.90 - 113.10	
115	20121.04	115.00	114.90 - 115.10	
206	5792.31	206.05	205.90 - 206.10	
207	4833.16	207.00	206.90 - 207.10	
208	11765.15	208.00	207.90 - 208.10	
220	0.70	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.786	0.900	
24	0.64	0.830	0.900	
25	0.64	0.790	0.900	
26	0.64	0.829	0.900	
59	0.60	0.817	0.900	
113	0.56	0.741	0.900	
115	0.56	0.768	0.900	
206	0.56	0.799	0.900	
207	0.55	0.797	0.900	
208	0.55	0.817	0.900	
220	0.47			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 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	9.7 V	Deflect	14.8 V
Extract 2	-210.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	123	Axis Gain	0.9997	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	-0.06		

Hardware Settings

Torch

Torch H	0.4 mm	Torch V	-0.1 mm
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EM

Discriminator	3.8 mV	Analog HV	2173 V	Pulse HV	1272 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		5364	53638.30			1.263	
89		9650	96502.05			1.317	
205		7570	75703.39			1.596	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	5366	5360	5445	5389	5258
89	9659	9556	9859	9635	9542
205	7639	7569	7719	7526	7398

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 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	9.7 V	Deflect	4.0 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	-100 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	170 V		
QP Parameters					
Mass Gain	123	Axis Gain	0.9997	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	-0.06		
Hardware Settings					
Torch					
Torch H	0.4 mm	Torch V	-0.1 mm		
EM					
Discriminator	3.8 mV	Analog HV	2173 V	Pulse HV	1272 V