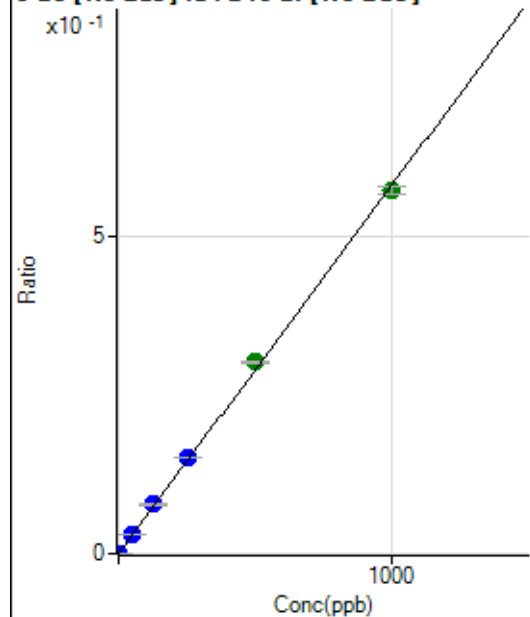


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020323 MS.b\
Analysis File: P8020323 MS.batch.bin
DA Date-Time: 2023-02-03 18:29:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-03 13:46:36
2	005CALS.d	S02	2023-02-03 13:49:45
3	006CALS.d	S03	2023-02-03 13:52:56
4	007CALS.d	S04	2023-02-03 13:56:02
5	008CALS.d	S05	2023-02-03 13:59:11
6	009CALS.d	S06	2023-02-03 14:02:18
7	010CALS.d	S07	2023-02-03 14:05:27
8	011CALS.d	S08	2023-02-03 14:08:34

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	114.57	0.0000	P	4.1
2	☐	1.000	1.088	2890.35	0.0007	P	4.3
3	☐	50.000	52.335	134654.36	0.0304	P	2.5
4	☐	125.000	134.423	328787.08	0.0781	P	5.5
5	☐	250.000	260.453	640190.07	0.1512	P	0.3
6	☐	500.000	520.049	1261024.95	0.3019	A	1.4
7	☐	1000.000	986.067	2398418.64	0.5724	A	2.1
8	☐			1349.51	0.0003	P	38.5

$$y = 5.8045\text{E-}004 * x + 2.6975\text{E-}005$$

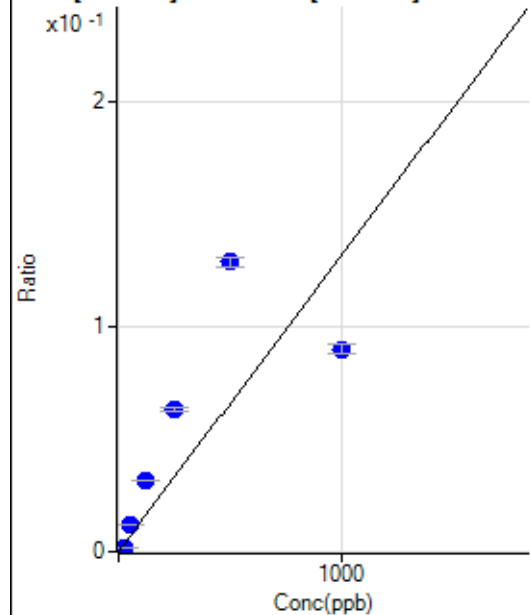
$$R = 0.9996$$

$$DL = 0.005765$$

$$BEC = 0.04647$$

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	298.61	0.0001	P	6.8
2	☐	25.000	13.943	8361.41	0.0019	P	5.0
3	☐	50.000	90.385	52921.82	0.0119	P	2.2
4	☐	125.000	240.604	133659.19	0.0317	P	1.8
5	☐	250.000	482.645	268818.91	0.0635	P	3.2
6	☐	500.000	981.142	538895.05	0.1290	P	3.5
7	☐	1000.000	685.075	377440.20	0.0901	P	4.3
8	☐			38932.39	0.0098	P	5.6

$$y = 1.3142\text{E-}004 * x + 7.0283\text{E-}005$$

$$R = 0.7811$$

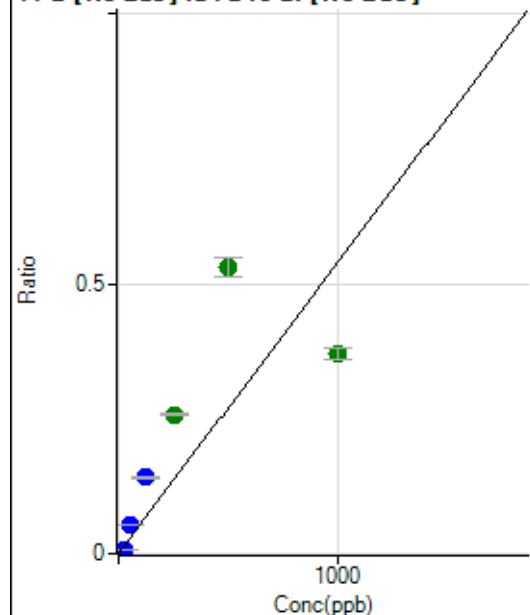
$$DL = 0.1084$$

$$BEC = 0.5348$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1478.46	0.0003	P	3.4
2	☐	25.000	15.045	37273.15	0.0085	P	2.5
3	☐	50.000	99.098	238849.20	0.0539	P	3.1
4	☐	125.000	260.134	594785.95	0.1410	P	1.6
5	☐	250.000	475.266	1089329.56	0.2573	A	1.1
6	☐	500.000	981.478	2218298.54	0.5310	A	6.8
7	☐	1000.000	683.847	1550339.68	0.3701	A	6.1
8	☐			173900.38	0.0438	P	7.0

$$y = 5.4066E-004 * x + 3.4811E-004$$

$$R = 0.7793$$

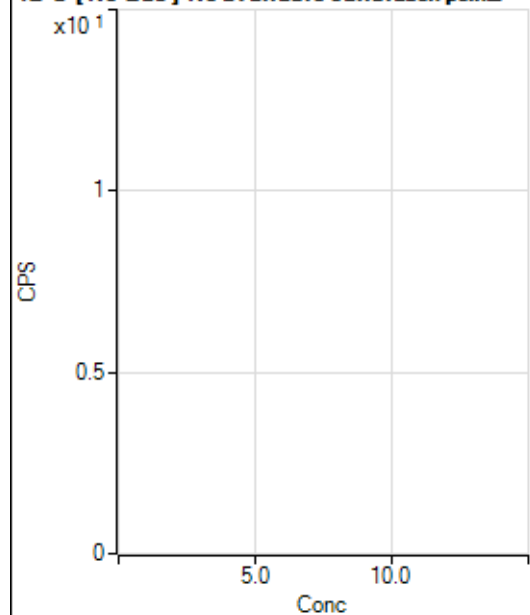
$$DL = 0.06545$$

$$BEC = 0.6439$$

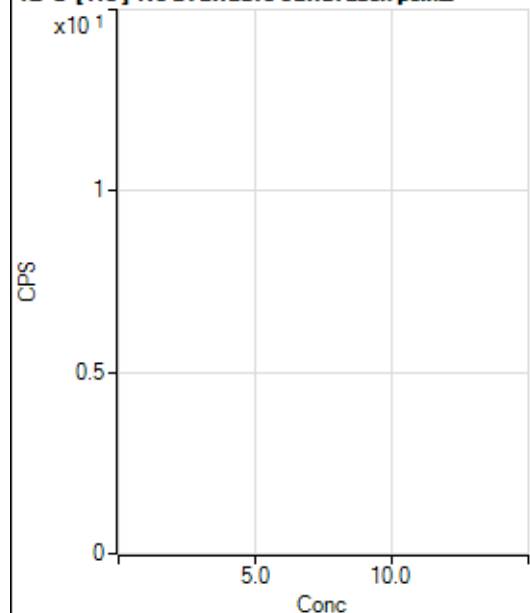
Weight: <None>

Min Conc: 0

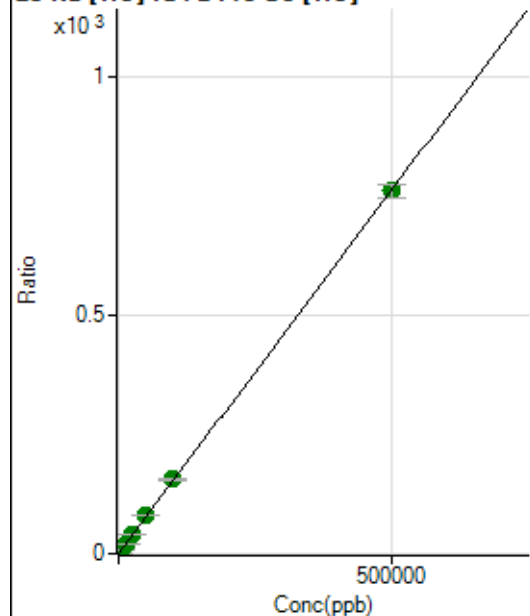
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4129301.40		A	1.6
2	☐			4360903.35		A	1.6
3	☐			4645258.74		A	0.7
4	☐			4951121.20		A	1.6
5	☐			5587400.73		A	2.6
6	☐			7055347.90		A	3.2
7	☐			6858107.92		A	3.9
8	☐			5669464.75		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44462.29		P	2.3
2	☐			48561.32		P	1.5
3	☐			50953.03		P	1.8
4	☐			55865.25		P	2.6
5	☐			65775.46		P	0.3
6	☐			84649.60		P	1.4
7	☐			81789.06		P	1.8
8	☐			69860.96		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19379.98	0.0978	P	2.1
2	☐	500.000	489.191	170751.97	0.8430	P	2.9
3	☐	5000.000	5158.390	1586360.33	7.9559	A	3.3
4	☐	12500.000	12919.319	3802958.37	19.7785	A	1.0
5	☐	25000.000	25515.490	7370047.13	38.9670	A	1.5
6	☐	50000.000	52998.844	14676730.36	80.8340	A	2.8
7	☐	100000.00	102391.65	29244833.64	156.0770	A	2.4
8	☐	500000.00	499183.95	134795922.4	760.5340	A	3.5

$$y = 0.0015 * x + 0.0978$$

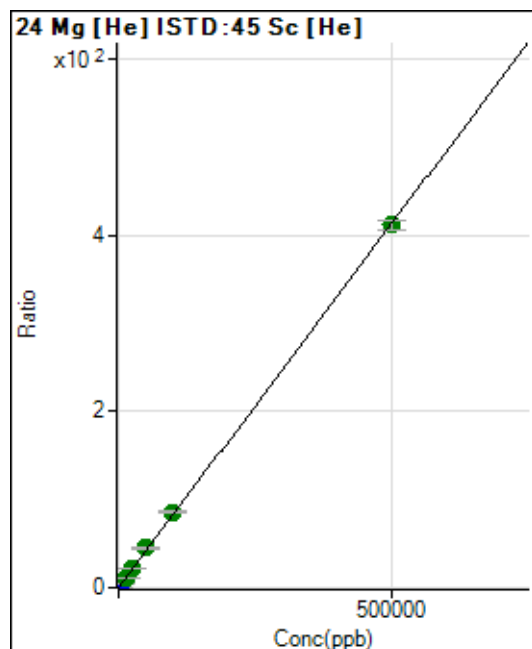
$$R = 1.0000$$

$$DL = 3.952$$

$$BEC = 64.2$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	322.24	0.0016	P	10.8
2	☐	500.000	497.289	83514.72	0.4123	P	3.0
3	☐	5000.000	5246.484	864445.52	4.3348	P	0.7
4	☐	12500.000	13343.378	2119258.25	11.0221	A	1.5
5	☐	25000.000	26111.586	4079248.44	21.5675	A	2.1
6	☐	50000.000	54256.311	8136298.01	44.8126	A	2.1
7	☐	100000.00	104372.98	16151651.40	86.2046	A	0.4
8	☐	500000.00	498620.64	72991514.13	411.8190	A	2.7

$$y = 8.2591\text{E-}004 * x + 0.0016$$

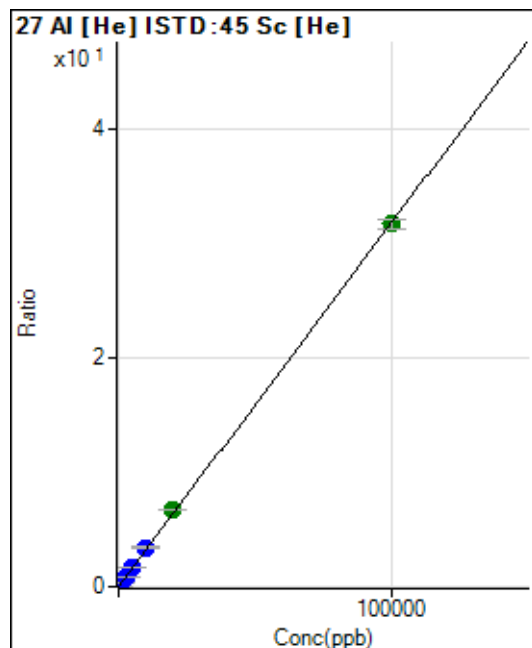
$$R = 0.9999$$

$$DL = 0.6366$$

$$BEC = 1.969$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.07	0.0004	P	2.5
2	☐	20.000	20.553	1406.57	0.0069	P	4.9
3	☐	1000.000	1041.589	66099.42	0.3314	P	0.8
4	☐	2500.000	2624.497	160454.84	0.8345	P	0.3
5	☐	5000.000	5190.977	312098.58	1.6501	P	1.1
6	☐	10000.000	10739.109	619765.47	3.4134	P	2.2
7	☐	20000.000	21057.983	1253965.65	6.6928	A	0.9
8	☐	100000.00	99701.415	5616501.80	31.6861	A	2.3

$$y = 3.1781\text{E-}004 * x + 4.1417\text{E-}004$$

$$R = 0.9999$$

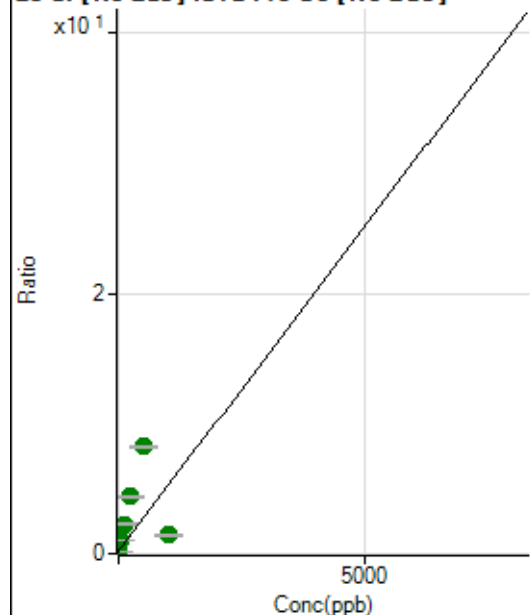
$$DL = 0.0982$$

$$BEC = 1.303$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	881720.87	0.1757	A	1.9
2	☐	10.000	2.243	950286.60	0.1869	A	3.2
3	☐	50.000	163.074	5091079.32	0.9884	A	1.9
4	☐	125.000	419.825	11114119.34	2.2679	A	3.1
5	☐	250.000	843.637	21195685.55	4.3799	A	3.5
6	☐	500.000	1615.624	39771994.64	8.2271	A	2.5
7	☐	1000.000	251.349	6943233.84	1.4283	A	3.7
8	☐			2305123.23	0.5045	A	3.5

$$y = 0.0050 * x + 0.1757$$

$$R = 0.3297$$

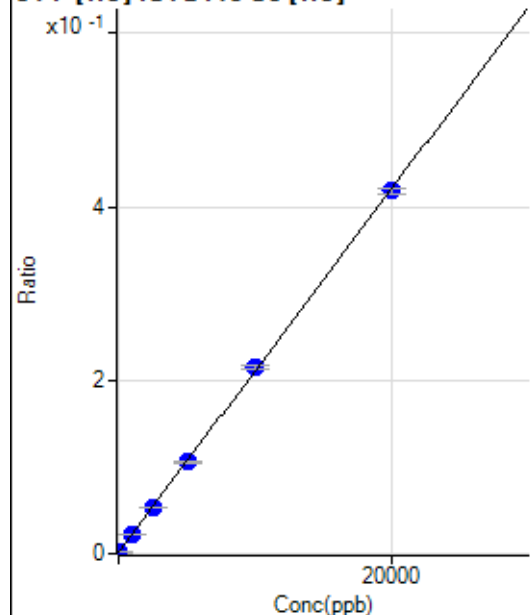
$$DL = 1.992$$

$$BEC = 35.26$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-12.385	250.01	0.0013	P	30.8
2	☐	0.000	12.385	361.13	0.0018	P	3.5
3	☐	1000.000	1001.603	4489.73	0.0225	P	6.0
4	☐	2500.000	2473.789	10256.63	0.0533	P	2.3
5	☐	5000.000	4971.225	19983.68	0.1057	P	2.5
6	☐	10000.000	10229.661	39184.17	0.2158	P	2.1
7	☐	20000.000	19895.559	78376.26	0.4183	P	1.6
8	☐			272.23	0.0015	P	16.9

$$y = 2.0949E-005 * x + 0.0015$$

$$R = 0.9999$$

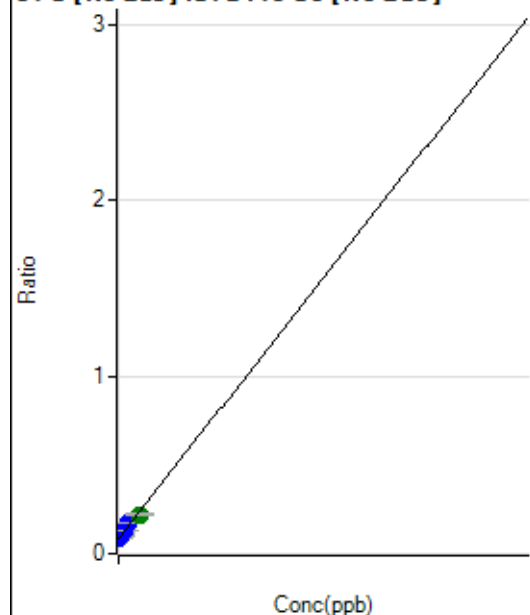
$$DL = 32.26$$

$$BEC = 72.65$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-72.193	429354.32	0.0856	P	0.8
2	☐	0.000	72.193	440421.26	0.0866	P	2.7
3	☐	1000.000	1326.180	493357.04	0.0958	P	0.5
4	☐	2500.000	3589.271	550204.67	0.1123	P	4.3
5	☐	5000.000	6329.406	640276.66	0.1323	P	3.7
6	☐	10000.000	11877.874	835748.10	0.1729	P	1.4
7	☐	20000.000	18576.244	1078220.18	0.2218	A	2.5
8	☐			374715.88	0.0820	P	1.7

$$y = 7.3041\text{E-}006 * x + 0.0861$$

$$R = 0.9894$$

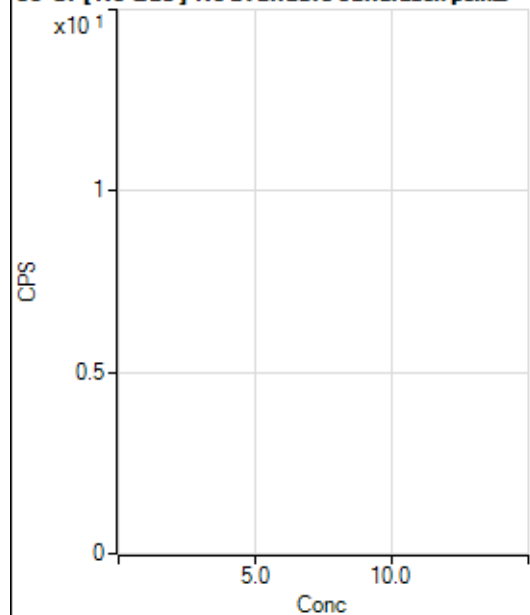
$$DL = 633.1$$

$$BEC = 1.179\text{E}+04$$

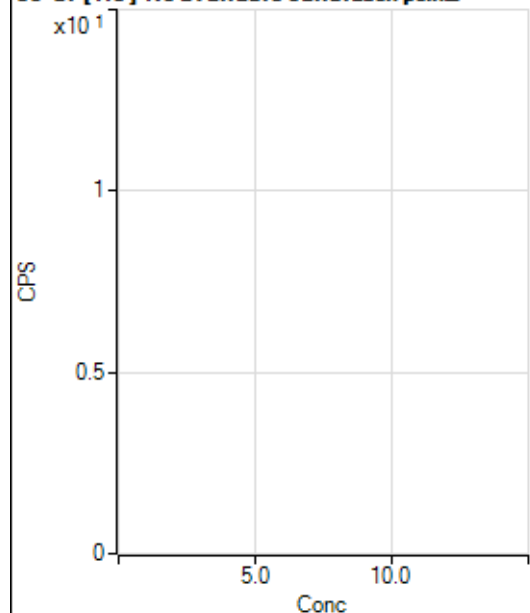
Weight: <None>

Min Conc: 0

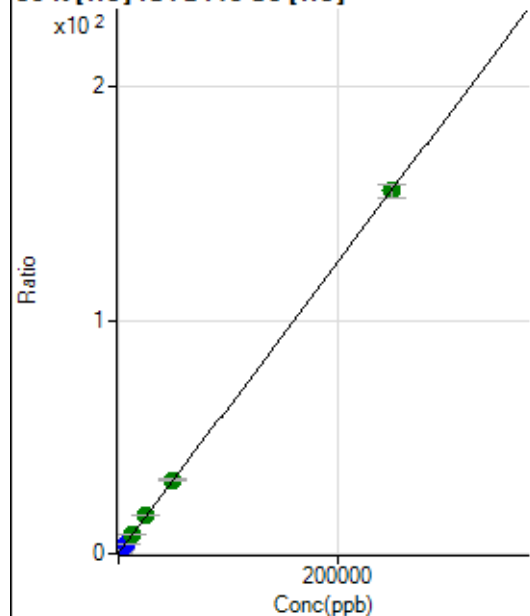
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			374624.37		P	0.5
2	☐			374898.24		P	0.4
3	☐			375054.91		P	1.2
4	☐			362921.52		P	0.7
5	☐			353936.26		P	0.6
6	☐			357706.73		P	1.0
7	☐			355032.34		P	0.5
8	☐			353442.66		P	1.0

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3225.44		P	2.5
2	☐			3383.82		P	1.5
3	☐			3189.33		P	1.8
4	☐			3075.41		P	5.5
5	☐			3005.94		P	1.4
6	☐			3125.41		P	2.3
7	☐			3142.10		P	3.8
8	☐			3233.78		P	3.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	30293.50	0.1529	P	4.2
2	☐	500.000	472.852	90539.70	0.4469	P	1.5
3	☐	2500.000	2548.541	346505.38	1.7376	P	1.3
4	☐	6250.000	6402.453	794883.54	4.1341	P	0.8
5	☐	12500.000	12886.895	1544524.15	8.1663	A	1.2
6	☐	25000.000	26320.631	2999687.53	16.5198	A	1.4
7	☐	50000.000	50672.009	5932622.70	31.6622	A	1.3
8	☐	250000.00	249709.94	27543675.27	155.4297	A	3.5

$$y = 6.2183\text{E-}004 * x + 0.1529$$

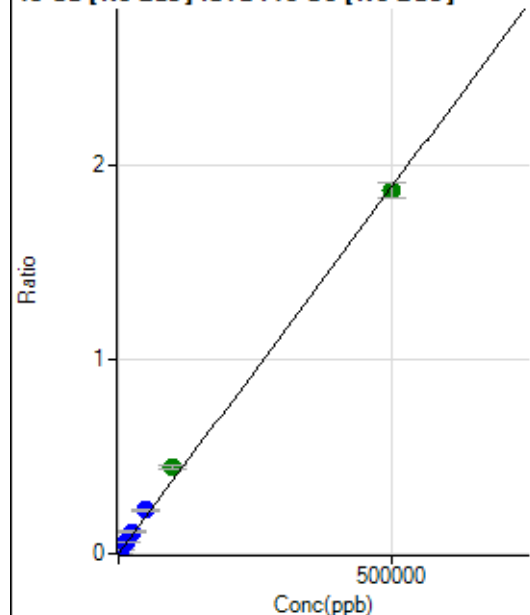
$$R = 1.0000$$

$$DL = 30.82$$

$$BEC = 245.8$$

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	199.98	0.0000	P	10.4
2	☐	500.000	529.786	10382.46	0.0020	P	4.3
3	☐	5000.000	5949.657	116050.55	0.0225	P	1.8
4	☐	12500.000	15094.675	279777.51	0.0571	P	3.6
5	☐	25000.000	29875.871	546698.90	0.1130	P	3.0
6	☐	50000.000	59041.795	1079341.90	0.2232	P	1.1
7	☐	100000.00	118684.89	2180898.10	0.4487	A	4.5
8	☐	500000.00	495040.65	8550425.06	1.8713	A	4.1

$$y = 3.7800\text{E-}006 * x + 3.9859\text{E-}005$$

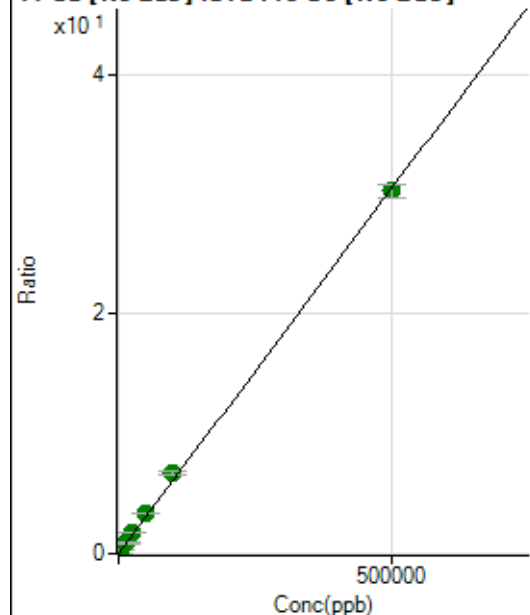
$$R = 0.9992$$

$$DL = 3.289$$

$$BEC = 10.54$$

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	12107.37	0.0024	P	1.0
2	☐	500.000	529.059	176221.38	0.0347	P	2.9
3	☐	5000.000	5656.594	1788356.56	0.3472	A	1.4
4	☐	12500.000	14520.090	4348653.72	0.8874	A	3.4
5	☐	25000.000	28231.784	8342023.62	1.7232	A	1.7
6	☐	50000.000	55827.007	16464037.02	3.4052	A	1.9
7	☐	100000.00	110873.48	32862259.77	6.7604	A	4.1
8	☐	500000.00	497023.91	138436685.6	30.2971	A	4.0

$$y = 6.0952\text{E-}005 * x + 0.0024$$

$$R = 0.9997$$

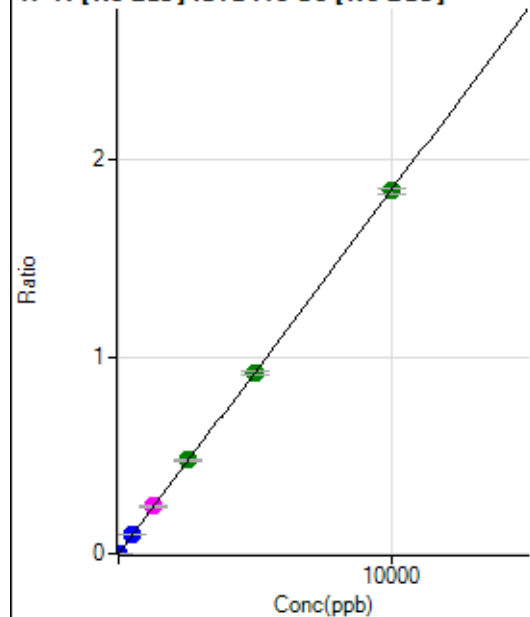
$$DL = 1.241$$

$$BEC = 39.59$$

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	322.24	0.0001	P	5.5
2	☐	5.000	5.235	5242.76	0.0010	P	3.5
3	☐	500.000	520.952	495965.43	0.0963	P	1.6
4	☐	1250.000	1301.793	1178565.56	0.2405	M	3.4
5	☐	2500.000	2572.403	2300626.07	0.4752	A	1.1
6	☐	5000.000	4987.982	4455055.61	0.9214	A	1.8
7	☐	10000.000	9980.386	8964174.68	1.8435	A	1.3
8	☐			10110.18	0.0022	P	27.3

$$y = 1.8471E-004 * x + 6.4207E-005$$

$$R = 1.0000$$

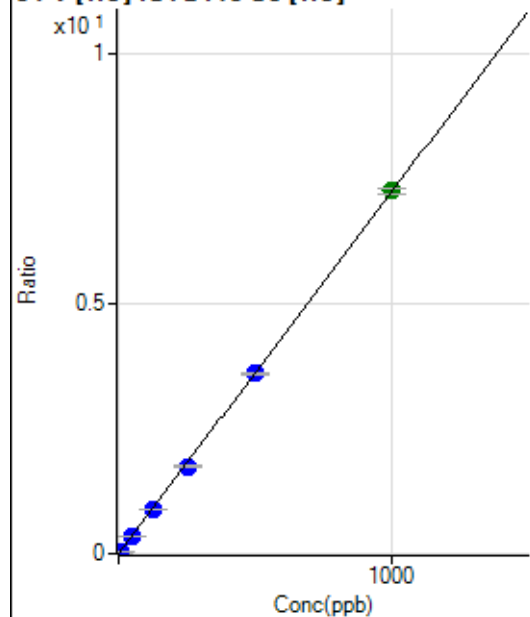
$$DL = 0.05775$$

$$BEC = 0.3476$$

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	22.22	0.0001	P	38.0
2	☐	5.000	4.784	7038.47	0.0347	P	2.3
3	☐	50.000	48.737	70388.92	0.3530	P	1.0
4	☐	125.000	123.509	171961.10	0.8943	P	1.0
5	☐	250.000	241.572	330826.92	1.7491	P	1.1
6	☐	500.000	497.796	654455.23	3.6042	P	1.1
7	☐	1000.000	1003.460	1361325.00	7.2653	A	1.5
8	☐			2147.96	0.0121	P	1.8

$$y = 0.0072 * x + 1.1217E-004$$

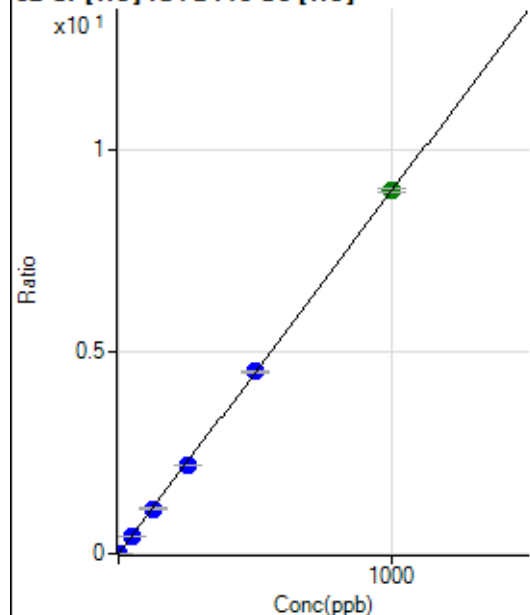
$$R = 1.0000$$

$$DL = 0.01764$$

$$BEC = 0.01549$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	566.68	0.0029	P	10.4
2	☐	2.000	1.877	3989.49	0.0197	P	3.4
3	☐	50.000	49.482	89103.91	0.4468	P	0.6
4	☐	125.000	124.064	214567.55	1.1159	P	0.5
5	☐	250.000	243.012	412897.43	2.1831	P	1.3
6	☐	500.000	502.313	818842.35	4.5095	P	1.2
7	☐	1000.000	1000.733	1682813.17	8.9812	A	1.0
8	☐			13348.56	0.0753	P	3.3

$$y = 0.0090 * x + 0.0029$$

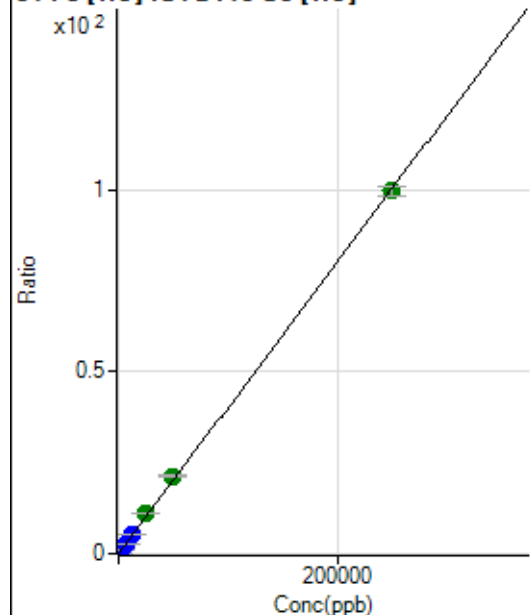
$$R = 1.0000$$

$$DL = 0.09947$$

$$BEC = 0.3188$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	837.08	0.0042	P	11.2
2	☐	50.000	55.783	5377.02	0.0265	P	2.8
3	☐	2500.000	2635.395	211079.06	1.0583	P	1.6
4	☐	6250.000	6635.255	511091.76	2.6581	P	1.2
5	☐	12500.000	13065.423	989160.39	5.2300	P	1.5
6	☐	25000.000	27820.481	2021201.57	11.1316	A	1.5
7	☐	50000.000	53347.458	3998686.87	21.3416	A	2.3
8	☐	250000.00	249009.20	17651541.37	99.6002	A	2.8

$$y = 3.9997E-004 * x + 0.0042$$

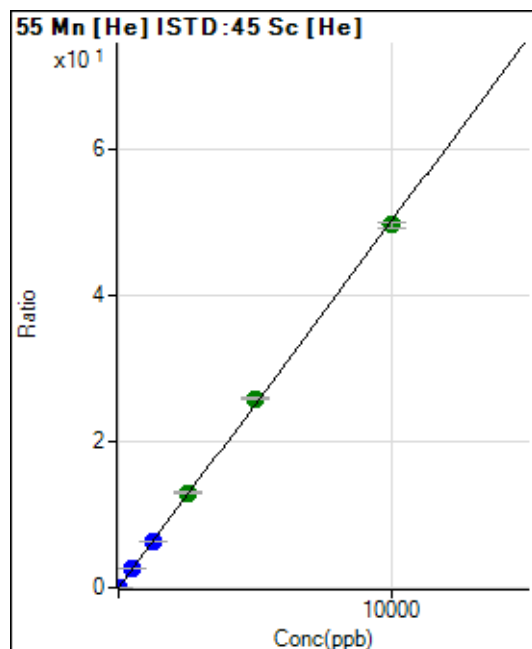
$$R = 0.9999$$

$$DL = 3.557$$

$$BEC = 10.56$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	67.78	0.0003	P	10.2
2	☐	1.000	1.012	1094.50	0.0054	P	6.4
3	☐	500.000	504.832	504050.16	2.5275	P	0.1
4	☐	1250.000	1262.255	1214982.94	6.3190	P	1.1
5	☐	2500.000	2593.862	2455953.99	12.9848	A	2.0
6	☐	5000.000	5155.886	4686965.17	25.8099	A	1.3
7	☐	10000.000	9896.818	9282271.11	49.5423	A	1.9
8	☐			9506.59	0.0536	P	1.8

$$y = 0.0050 * x + 3.4201E-004$$

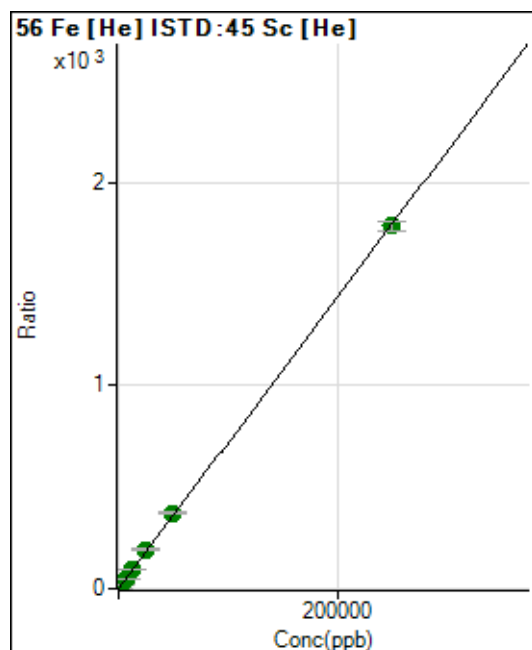
$$R = 0.9998$$

$$DL = 0.02089$$

$$BEC = 0.06832$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4306.28	0.0217	P	3.6
2	☐	50.000	50.621	77895.87	0.3844	P	1.0
3	☐	2500.000	2665.041	3812615.51	19.1173	A	2.5
4	☐	6250.000	6704.603	9241049.40	48.0616	A	1.1
5	☐	12500.000	13237.244	17943459.89	94.8694	A	0.6
6	☐	25000.000	27038.628	35187983.66	193.7592	A	1.6
7	☐	50000.000	52025.284	69843202.95	372.7939	A	2.8
8	☐	250000.00	249341.20	316636599.6	1,786.604	A	2.3

$$y = 0.0072 * x + 0.0217$$

$$R = 0.9999$$

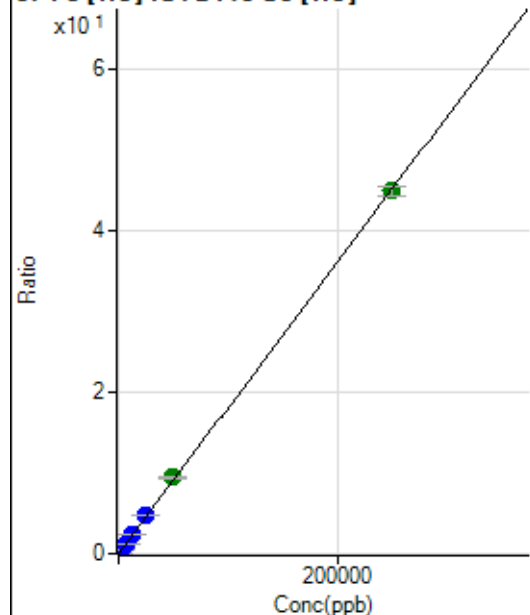
$$DL = 0.3245$$

$$BEC = 3.033$$

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	322.23	0.0016	P	19.1
2	☐	50.000	53.153	2274.30	0.0112	P	8.0
3	☐	2500.000	2602.556	93948.92	0.4711	P	0.6
4	☐	6250.000	6472.359	224794.86	1.1691	P	2.0
5	☐	12500.000	12868.719	439350.99	2.3230	P	1.5
6	☐	25000.000	26154.227	857072.53	4.7195	P	1.3
7	☐	50000.000	52416.730	1771818.15	9.4569	A	2.9
8	☐	250000.00	249376.21	7972854.98	44.9855	A	2.7

$$y = 1.8039\text{E-}004 * x + 0.0016$$

$$R = 0.9999$$

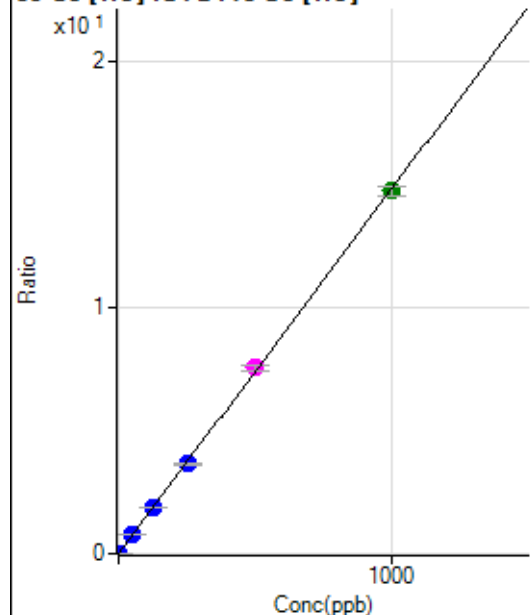
$$DL = 5.165$$

$$BEC = 9.013$$

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	158.89	0.0008	P	15.8
2	☐	1.000	1.027	3244.85	0.0160	P	2.9
3	☐	50.000	50.748	149932.76	0.7519	P	1.4
4	☐	125.000	127.186	362078.25	1.8831	P	1.3
5	☐	250.000	246.756	690847.29	3.6527	P	1.7
6	☐	500.000	510.991	1373601.65	7.5634	M	3.0
7	☐	1000.000	995.005	2759150.41	14.7267	A	2.6
8	☐			2754.74	0.0155	P	0.9

$$y = 0.0148 * x + 8.0166\text{E-}004$$

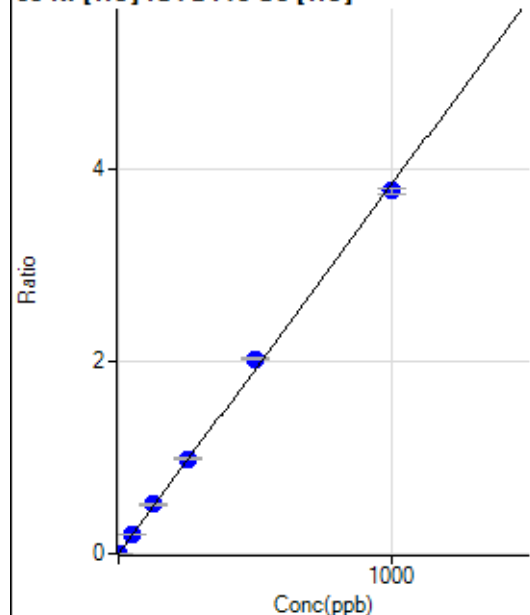
$$R = 0.9999$$

$$DL = 0.02571$$

$$BEC = 0.05417$$

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	48.89	0.0002	P	31.0
2	☐	1.000	1.035	852.26	0.0042	P	2.5
3	☐	50.000	52.899	40438.51	0.2028	P	1.6
4	☐	125.000	132.939	97915.87	0.5092	P	2.4
5	☐	250.000	257.095	186224.08	0.9846	P	1.6
6	☐	500.000	527.531	366816.67	2.0201	P	0.9
7	☐	1000.000	983.323	705466.01	3.7652	P	1.4
8	☐			1987.94	0.0112	P	1.2

$$y = 0.0038 * x + 2.4685E-004$$

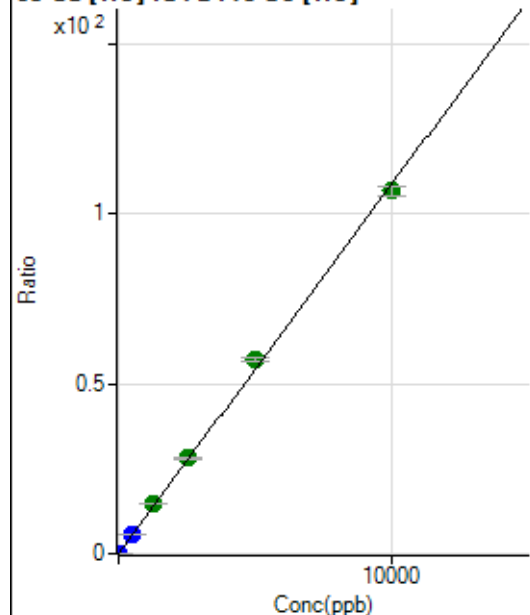
$$R = 0.9994$$

$$DL = 0.06003$$

$$BEC = 0.06447$$

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	1151.17	0.0058	P	2.5
2	☐	2.000	2.031	5644.51	0.0279	P	7.0
3	☐	500.000	513.773	1115287.87	5.5923	P	1.8
4	☐	1250.000	1348.506	2820431.73	14.6687	A	2.3
5	☐	2500.000	2578.295	5303609.40	28.0408	A	0.3
6	☐	5000.000	5278.187	10421717.41	57.3980	A	1.9
7	☐	10000.000	9828.331	20023185.81	106.8738	A	2.5
8	☐			7890.06	0.0445	P	8.5

$$y = 0.0109 * x + 0.0058$$

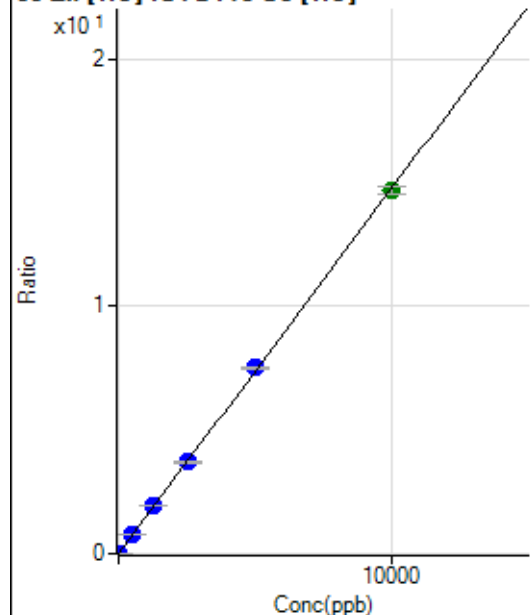
$$R = 0.9994$$

$$DL = 0.03972$$

$$BEC = 0.5343$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	272.23	0.0014	P	3.1
2	☐	2.000	2.348	980.04	0.0048	P	5.5
3	☐	500.000	519.616	153305.86	0.7688	P	1.6
4	☐	1250.000	1312.539	372972.98	1.9398	P	1.1
5	☐	2500.000	2519.959	704125.83	3.7229	P	1.6
6	☐	5000.000	5098.745	1367606.09	7.5314	P	1.0
7	☐	10000.000	9936.839	2749829.72	14.6764	A	2.1
8	☐			2575.82	0.0145	P	8.6

$$y = 0.0015 * x + 0.0014$$

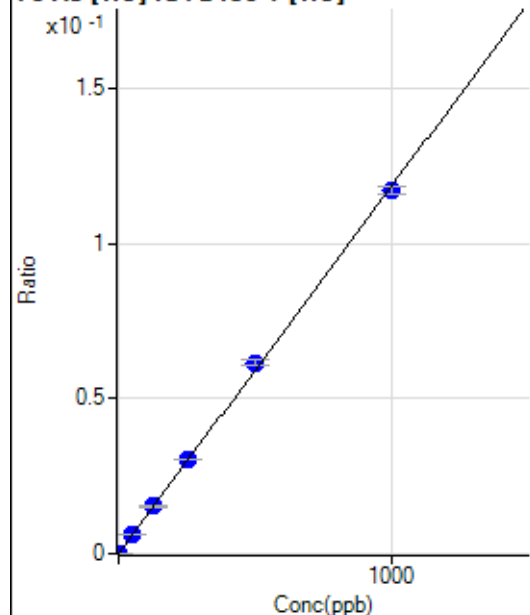
$$R = 0.9999$$

$$DL = 0.08599$$

$$BEC = 0.9302$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8.67	0.0000	P	39.4
2	☐	1.000	1.012	193.69	0.0001	P	4.0
3	☐	50.000	51.177	9136.21	0.0061	P	2.3
4	☐	125.000	128.906	22278.09	0.0153	P	2.1
5	☐	250.000	257.083	42950.88	0.0305	P	1.1
6	☐	500.000	519.599	84180.56	0.0616	P	3.1
7	☐	1000.000	987.883	166068.13	0.1171	P	2.1
8	☐			151.02	0.0001	P	6.1

$$y = 1.1853E-004 * x + 5.7999E-006$$

$$R = 0.9997$$

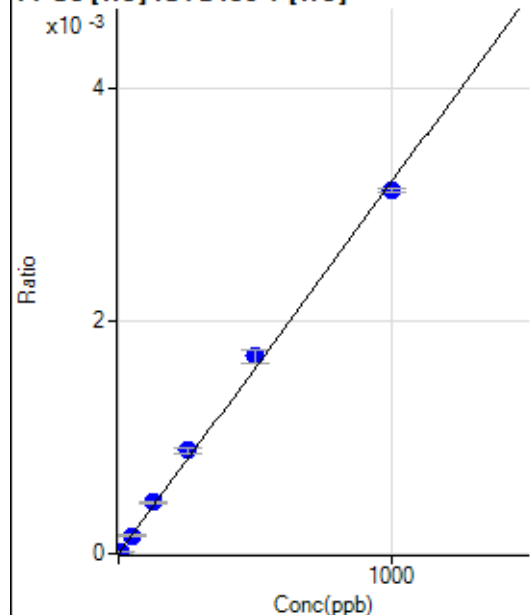
$$DL = 0.05788$$

$$BEC = 0.04893$$

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	1.11	0.0000	P	173.
2	☐	5.000	4.724	24.44	0.0000	P	48.7
3	☐	50.000	48.591	234.45	0.0002	P	14.3
4	☐	125.000	137.463	641.13	0.0004	P	5.1
5	☐	250.000	277.505	1250.07	0.0009	P	5.4
6	☐	500.000	530.668	2320.22	0.0017	P	6.4
7	☐	1000.000	976.304	4425.19	0.0031	P	0.9
8	☐			14.44	0.0000	P	36.3

$$y = 3.1946\text{E-}006 * x + 7.6321\text{E-}007$$

$$R = 0.9988$$

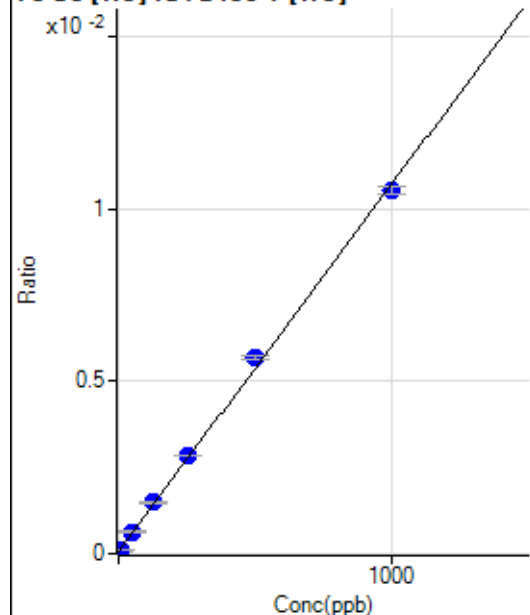
$$DL = 1.241$$

$$BEC = 0.2389$$

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	91.01	0.0001	P	3.6
2	☐	5.000	5.586	186.02	0.0001	P	7.9
3	☐	50.000	53.796	954.80	0.0006	P	2.8
4	☐	125.000	133.991	2171.06	0.0015	P	2.0
5	☐	250.000	261.424	4012.65	0.0028	P	0.7
6	☐	500.000	526.750	7756.92	0.0057	P	2.1
7	☐	1000.000	982.452	14936.74	0.0105	P	2.2
8	☐			97.01	0.0001	P	12.1

$$y = 1.0658\text{E-}005 * x + 6.1186\text{E-}005$$

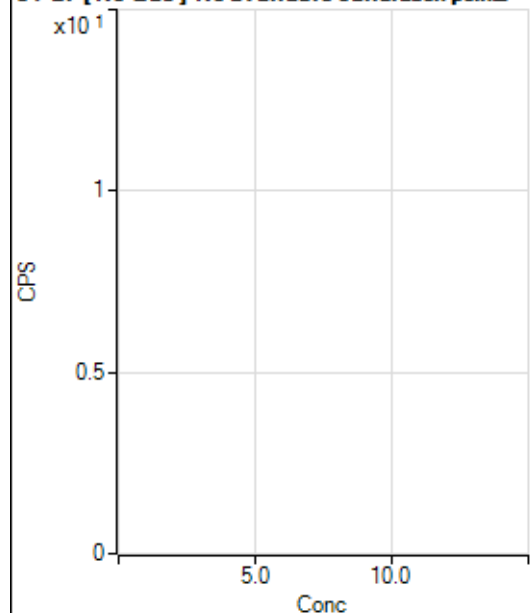
$$R = 0.9994$$

$$DL = 0.6119$$

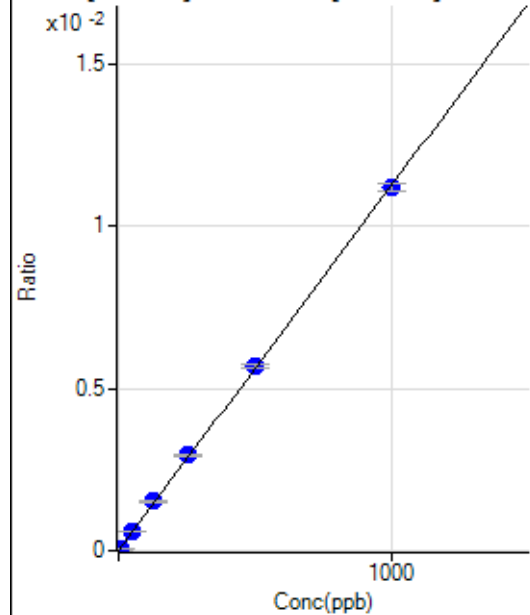
$$BEC = 5.741$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45283.66		P	2.3
2	☐			45802.32		P	5.0
3	☐			45226.82		P	2.3
4	☐			42049.81		P	1.7
5	☐			40098.92		P	0.6
6	☐			39151.88		P	2.3
7	☐			38004.36		P	0.5
8	☐			37612.77		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	45.83	0.0000	P	14.2
2	☐	5.000	4.977	707.88	0.0001	P	1.8
3	☐	50.000	53.003	7056.53	0.0006	P	0.8
4	☐	125.000	134.604	17008.69	0.0015	P	6.1
5	☐	250.000	261.374	32779.11	0.0029	P	3.2
6	☐	500.000	504.797	63011.04	0.0057	P	1.4
7	☐	1000.000	993.407	123378.06	0.0112	P	2.1
8	☐			386.22	0.0000	P	11.5

$$y = 1.1266E-005 * x + 3.8919E-006$$

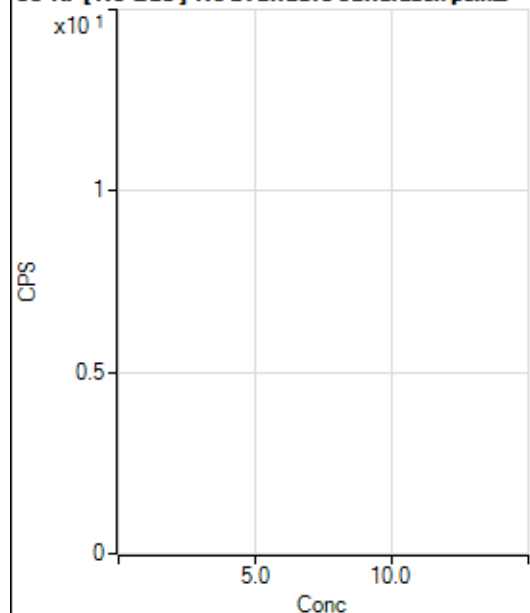
$$R = 0.9999$$

$$DL = 0.1475$$

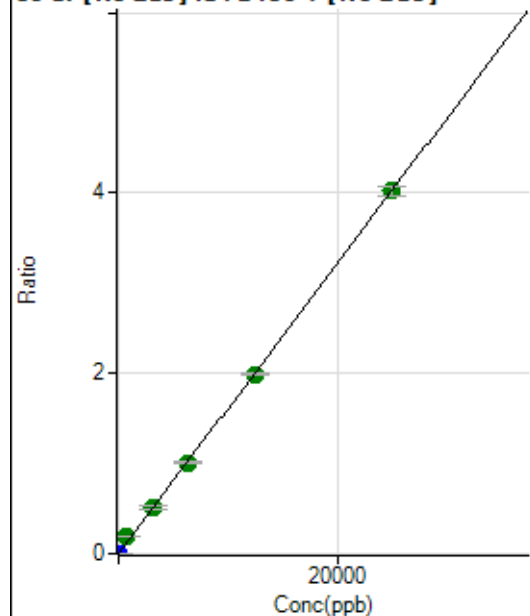
$$BEC = 0.3455$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			449.53		P	3.3
2	☐			468.70		P	3.2
3	☐			421.62		P	2.0
4	☐			435.37		P	3.3
5	☐			422.04		P	10.0
6	☐			422.87		P	5.7
7	☐			434.54		P	6.9
8	☐			447.87		P	5.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	677.81	0.0001	P	5.1
2	☐	1.000	1.003	2583.64	0.0002	P	2.3
3	☐	625.000	1239.797	2339562.33	0.1993	A	1.3
4	☐	3125.000	3188.663	5736741.27	0.5125	A	4.7
5	☐	6250.000	6280.149	11223610.84	1.0093	A	3.1
6	☐	12500.000	12381.822	22032038.86	1.9898	A	0.7
7	☐	25000.000	25028.224	44321702.38	4.0220	A	2.8
8	☐			27122.46	0.0026	P	45.0

$$y = 1.6070E-004 * x + 5.7606E-005$$

$$R = 0.9997$$

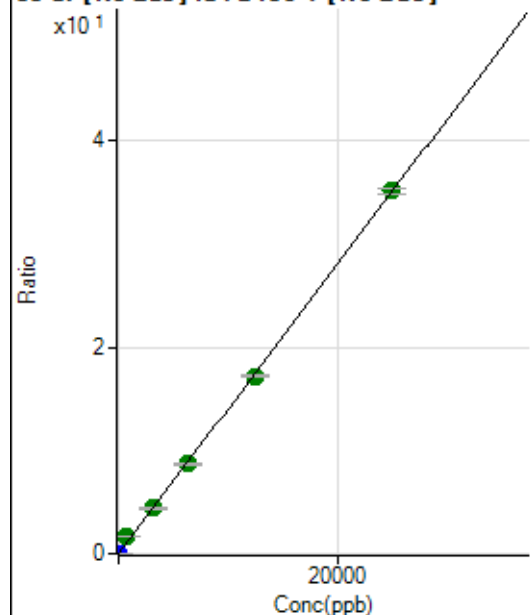
$$DL = 0.05445$$

$$BEC = 0.3585$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	216.68	0.0000	P	50.0
2	☐	1.000	0.966	16182.00	0.0014	P	4.8
3	☐	625.000	1209.974	19914758.60	1.6959	A	1.5
4	☐	3125.000	3150.649	49423148.67	4.4159	A	4.9
5	☐	6250.000	6196.252	96553188.96	8.6846	A	2.9
6	☐	12500.000	12288.867	190726405.6	17.2239	A	0.9
7	☐	25000.000	25101.173	387736961.4	35.1814	A	1.4
8	☐			230116.89	0.0217	P	43.3

$$y = 0.0014 * x + 1.8422E-005$$

$$R = 0.9996$$

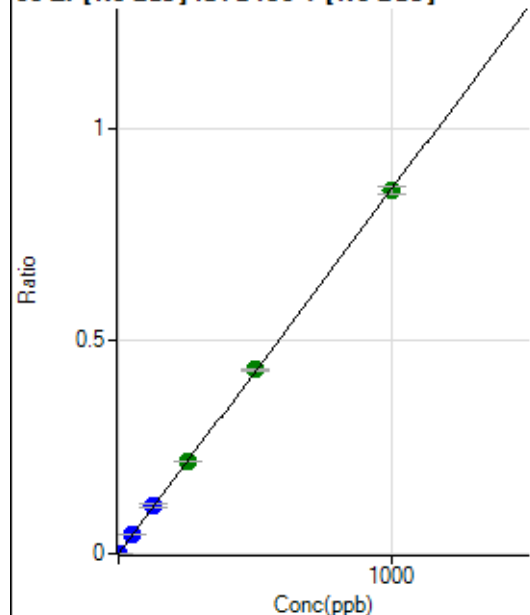
$$DL = 0.0197$$

$$BEC = 0.01314$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	491.69	0.0000	P	16.4
2	☐	1.000	0.934	9939.91	0.0008	P	1.4
3	☐	50.000	51.038	513939.93	0.0438	P	1.6
4	☐	125.000	130.692	1252858.87	0.1120	P	6.5
5	☐	250.000	253.697	2417555.98	0.2174	A	0.9
6	☐	500.000	505.198	4792630.58	0.4328	A	0.8
7	☐	1000.000	995.714	9401123.91	0.8530	A	2.1
8	☐			5693.50	0.0005	P	35.9

$$y = 8.5666E-004 * x + 4.1751E-005$$

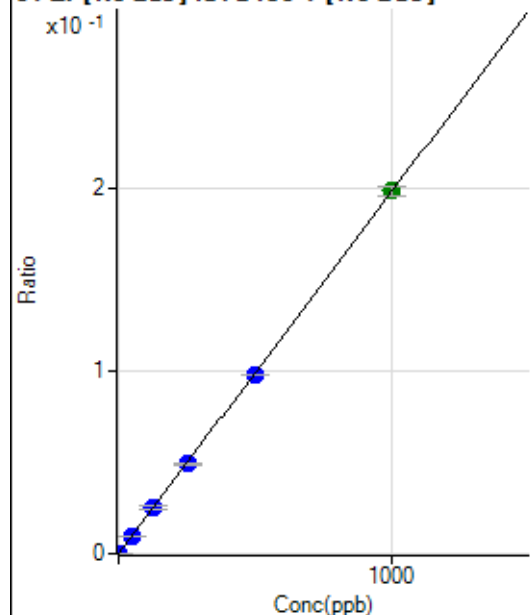
$$R = 1.0000$$

$$DL = 0.02403$$

$$BEC = 0.04874$$

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	102.78	0.0000	P	24.8
2	☐	1.000	0.936	2286.36	0.0002	P	2.1
3	☐	50.000	49.826	115677.00	0.0099	P	1.6
4	☐	125.000	127.279	281489.56	0.0252	P	5.6
5	☐	250.000	248.882	546878.89	0.0492	P	1.8
6	☐	500.000	493.689	1080116.06	0.0975	P	0.2
7	☐	1000.000	1003.159	2184165.78	0.1982	A	2.3
8	☐			1163.99	0.0001	P	37.7

$$y = 1.9757E-004 * x + 8.7208E-006$$

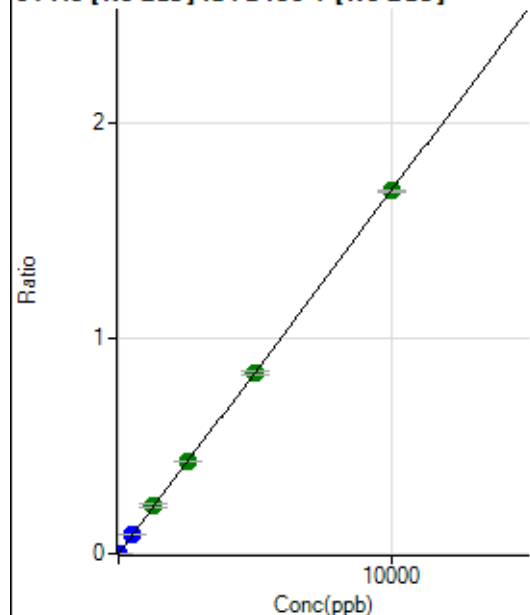
$$R = 1.0000$$

$$DL = 0.03284$$

$$BEC = 0.04414$$

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	158.34	0.0000	P	32.7
2	☐	5.000	5.953	12022.18	0.0010	P	3.1
3	☐	500.000	518.687	1028545.79	0.0876	P	1.0
4	☐	1250.000	1315.285	2485712.43	0.2221	A	5.4
5	☐	2500.000	2547.669	4786101.84	0.4302	A	1.0
6	☐	5000.000	4979.032	9309305.16	0.8408	A	1.8
7	☐	10000.000	9989.471	18592341.22	1.6869	A	0.7
8	☐			13014.56	0.0012	P	33.8

$$y = 1.6886E-004 * x + 1.3452E-005$$

$$R = 1.0000$$

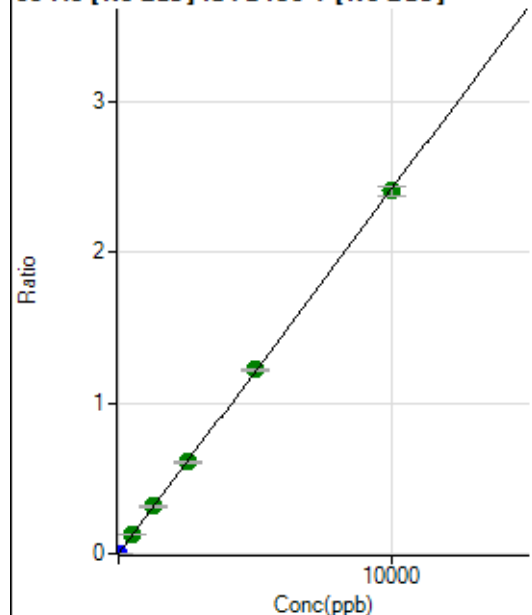
$$DL = 0.07803$$

$$BEC = 0.07966$$

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	80.56	0.0000	P	24.0
2	☐	5.000	5.108	14672.09	0.0012	P	4.0
3	☐	500.000	514.355	1462332.29	0.1245	A	1.5
4	☐	1250.000	1299.012	3518147.74	0.3145	A	6.2
5	☐	2500.000	2526.802	6802954.97	0.6117	A	2.2
6	☐	5000.000	5056.755	13554833.98	1.2242	A	1.0
7	☐	10000.000	9958.078	26565253.02	2.4107	A	2.4
8	☐			18341.68	0.0017	P	40.5

$$y = 2.4208\text{E-}004 * x + 6.8497\text{E-}006$$

$$R = 1.0000$$

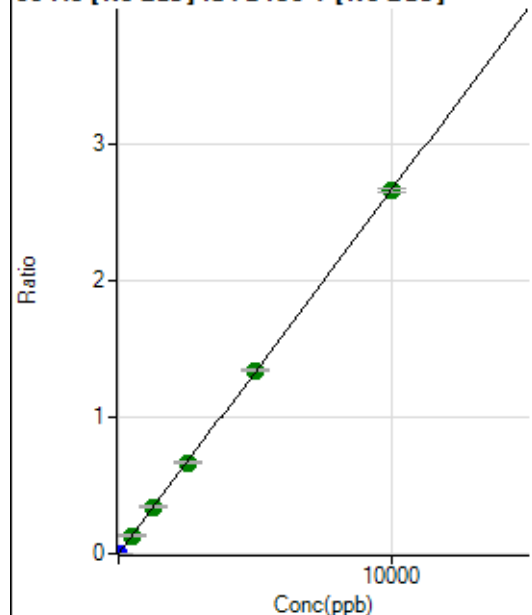
$$DL = 0.02036$$

$$BEC = 0.0283$$

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	197.23	0.0000	P	25.1
2	☐	5.000	5.159	16437.88	0.0014	P	2.3
3	☐	500.000	499.992	1565380.18	0.1333	A	1.4
4	☐	1250.000	1283.008	3828167.40	0.3421	A	5.9
5	☐	2500.000	2494.915	7398896.69	0.6653	A	1.6
6	☐	5000.000	5037.720	14875111.96	1.3434	A	0.6
7	☐	10000.000	9978.285	29327131.91	2.6609	A	0.9
8	☐			29376.30	0.0028	P	25.8

$$y = 2.6666\text{E-}004 * x + 1.6795\text{E-}005$$

$$R = 1.0000$$

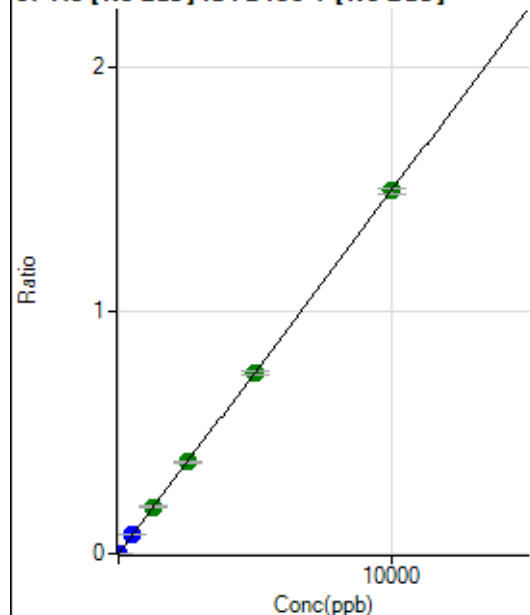
$$DL = 0.04749$$

$$BEC = 0.06298$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	41.1
2	☐	5.000	4.988	8822.52	0.0007	P	1.8
3	☐	500.000	517.547	907487.51	0.0773	P	1.8
4	☐	1250.000	1294.974	2164216.50	0.1934	A	5.6
5	☐	2500.000	2521.883	4187930.00	0.3766	A	1.8
6	☐	5000.000	4993.094	8255875.53	0.7457	A	2.1
7	☐	10000.000	9991.483	16445706.10	1.4921	A	1.9
8	☐			11025.82	0.0010	P	32.9

$$y = 1.4934\text{E-}004 * x + 2.5953\text{E-}006$$

$$R = 1.0000$$

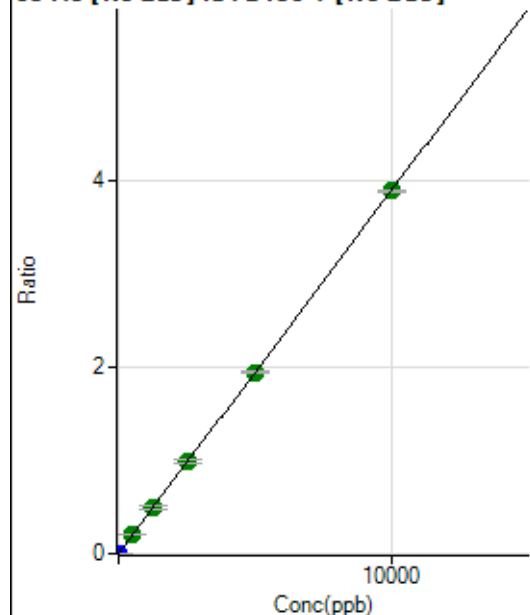
$$DL = 0.02145$$

$$BEC = 0.01738$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.12	0.0000	P	13.9
2	☐	5.000	5.003	23092.06	0.0020	P	5.5
3	☐	500.000	508.842	2324482.00	0.1980	A	1.2
4	☐	1250.000	1265.970	5512300.04	0.4925	A	5.3
5	☐	2500.000	2538.687	10981217.35	0.9876	A	2.7
6	☐	5000.000	4996.822	21524017.32	1.9439	A	1.1
7	☐	10000.000	9989.479	42831961.03	3.8862	A	0.9
8	☐			28187.78	0.0027	P	35.3

$$y = 3.8903\text{E-}004 * x + 1.1585\text{E-}005$$

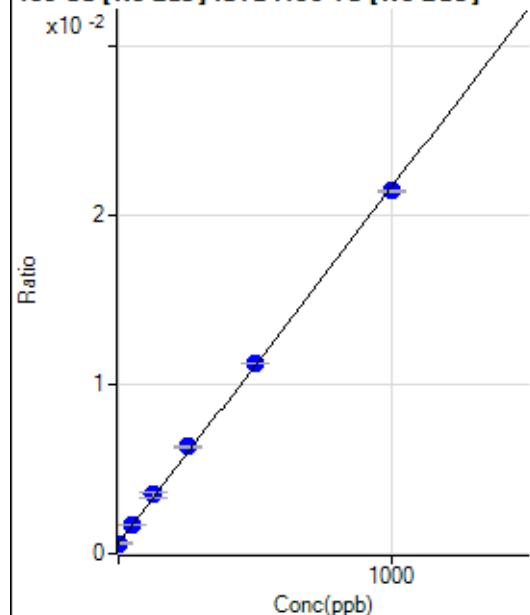
$$R = 1.0000$$

$$DL = 0.01244$$

$$BEC = 0.02978$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4478.64	0.0006	P	2.9
2	☐	1.000	0.385	4598.14	0.0006	P	6.6
3	☐	50.000	53.877	13203.91	0.0017	P	1.2
4	☐	125.000	137.307	25952.83	0.0035	P	9.8
5	☐	250.000	271.838	46490.82	0.0063	P	1.3
6	☐	500.000	506.151	85993.66	0.0113	P	0.7
7	☐	1000.000	989.734	160407.66	0.0215	P	0.3
8	☐			3831.19	0.0005	P	0.7

$$y = 2.1065\text{E-}005 * x + 6.0887\text{E-}004$$

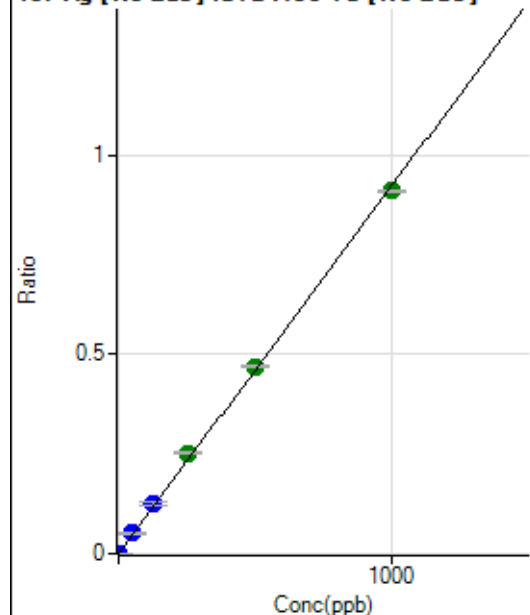
$$R = 0.9997$$

$$DL = 2.497$$

$$BEC = 28.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	305.57	0.0000	P	18.9
2	☐	1.000	1.070	7657.86	0.0010	P	8.9
3	☐	50.000	56.236	392327.17	0.0519	P	5.0
4	☐	125.000	137.045	937237.69	0.1263	P	7.4
5	☐	250.000	274.597	1857306.77	0.2530	A	0.6
6	☐	500.000	509.699	3583223.52	0.4697	A	1.1
7	☐	1000.000	987.184	6799682.18	0.9096	A	0.8
8	☐			10245.76	0.0014	P	0.5

$$y = 9.2138\text{E-}004 * x + 4.1518\text{E-}005$$

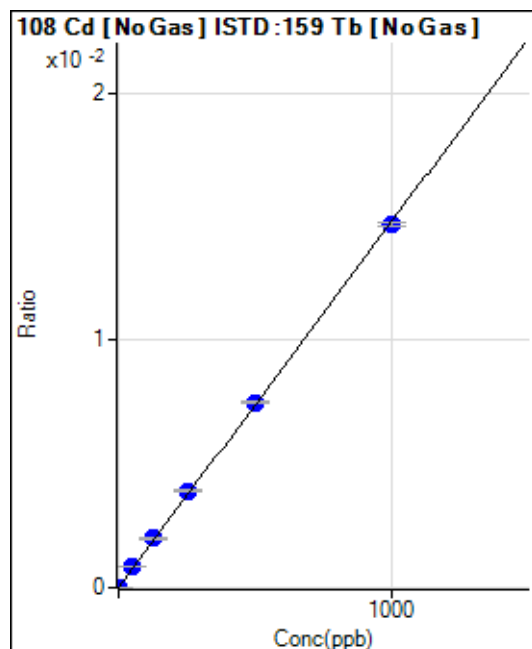
$$R = 0.9996$$

$$DL = 0.02558$$

$$BEC = 0.04506$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.28	0.0000	P	33.0
2	☐	1.000	0.841	133.34	0.0000	P	18.9
3	☐	50.000	56.060	6316.79	0.0008	P	4.0
4	☐	125.000	135.461	14923.53	0.0020	P	4.4
5	☐	250.000	264.151	28712.04	0.0039	P	2.1
6	☐	500.000	506.578	57203.04	0.0075	P	1.8
7	☐	1000.000	991.563	109660.39	0.0147	P	1.2
8	☐			138.89	0.0000	P	46.0

$$y = 1.4789\text{E-}005 * x + 5.4716\text{E-}006$$

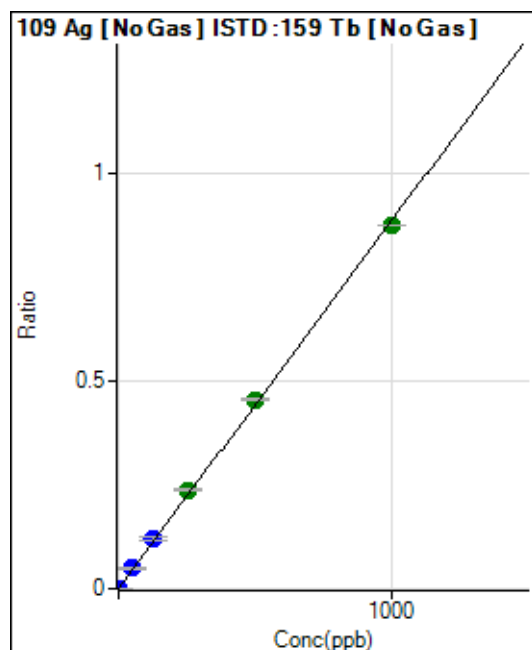
$$R = 0.9998$$

$$DL = 0.366$$

$$BEC = 0.37$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	250.01	0.0000	P	57.9
2	☐	1.000	1.075	7346.62	0.0010	P	8.7
3	☐	50.000	55.198	370209.19	0.0489	P	5.4
4	☐	125.000	135.163	888778.74	0.1198	P	7.3
5	☐	250.000	268.835	1747937.67	0.2382	A	2.8
6	☐	500.000	514.776	3480026.38	0.4561	A	0.7
7	☐	1000.000	986.373	6532793.46	0.8739	A	0.2
8	☐			9756.51	0.0014	P	0.7

$$y = 8.8594\text{E-}004 * x + 3.3907\text{E-}005$$

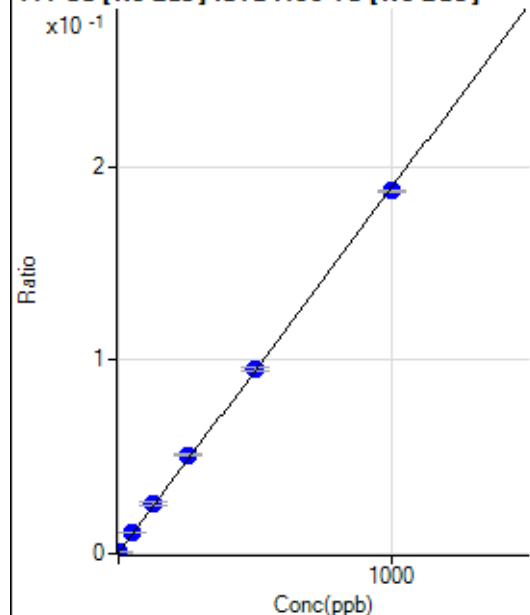
$$R = 0.9996$$

$$DL = 0.06649$$

$$BEC = 0.03827$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3136.02	0.0004	P	3.7
2	☐	1.000	1.029	4624.07	0.0006	P	5.5
3	☐	50.000	55.002	81655.22	0.0108	P	4.7
4	☐	125.000	136.692	194253.31	0.0262	P	8.1
5	☐	250.000	268.889	375022.62	0.0511	P	1.5
6	☐	500.000	503.825	727657.86	0.0954	P	1.8
7	☐	1000.000	991.654	1400285.73	0.1873	P	0.3
8	☐			3484.66	0.0005	P	8.6

$$y = 1.8846\text{E-}004 * x + 4.2635\text{E-}004$$

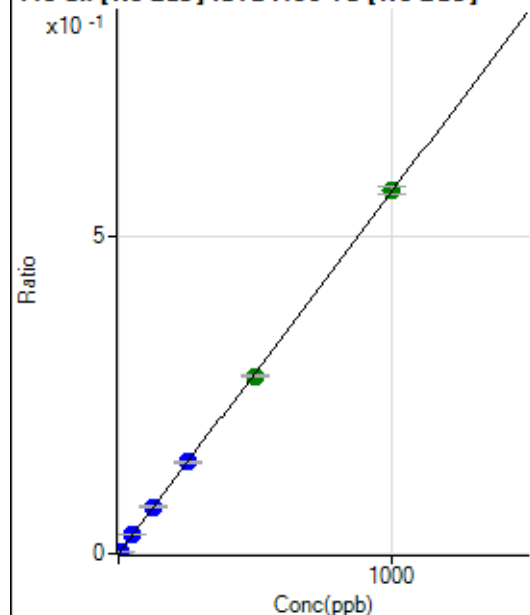
$$R = 0.9998$$

$$DL = 0.2506$$

$$BEC = 2.262$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	572.25	0.0001	P	10.5
2	☐	5.000	5.093	22227.04	0.0030	P	3.7
3	☐	50.000	51.472	222675.90	0.0294	P	3.0
4	☐	125.000	128.580	544838.59	0.0734	P	5.7
5	☐	250.000	253.861	1062589.24	0.1448	P	1.8
6	☐	500.000	490.496	2133948.74	0.2797	A	1.5
7	☐	1000.000	1003.265	4275797.15	0.5720	A	1.9
8	☐			7163.26	0.0010	P	11.7

$$y = 5.7007\text{E-}004 * x + 7.7757\text{E-}005$$

$$R = 0.9999$$

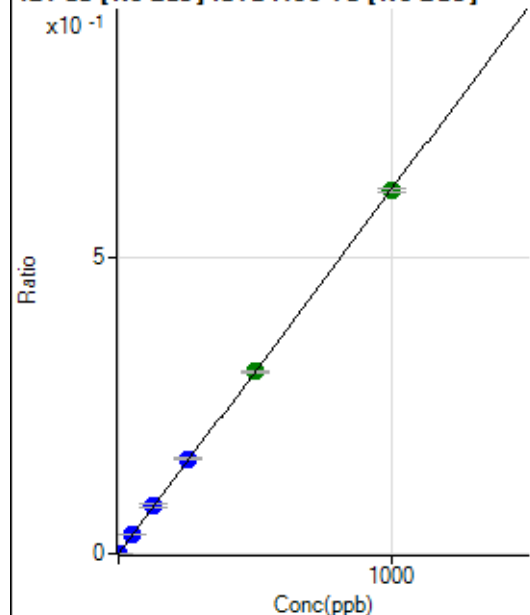
$$DL = 0.04279$$

$$BEC = 0.1364$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	111.12	0.0000	P	63.1
2	☐	2.000	1.987	9192.23	0.0012	P	5.2
3	☐	50.000	52.053	241630.78	0.0319	P	3.1
4	☐	125.000	131.006	596270.58	0.0803	P	6.1
5	☐	250.000	259.710	1168421.40	0.1592	P	2.0
6	☐	500.000	501.232	2344254.85	0.3073	A	1.0
7	☐	1000.000	996.103	4564416.16	0.6106	A	1.1
8	☐			22513.64	0.0032	P	3.1

$$y = 6.1299\text{E-}004 * x + 1.5064\text{E-}005$$

$$R = 0.9999$$

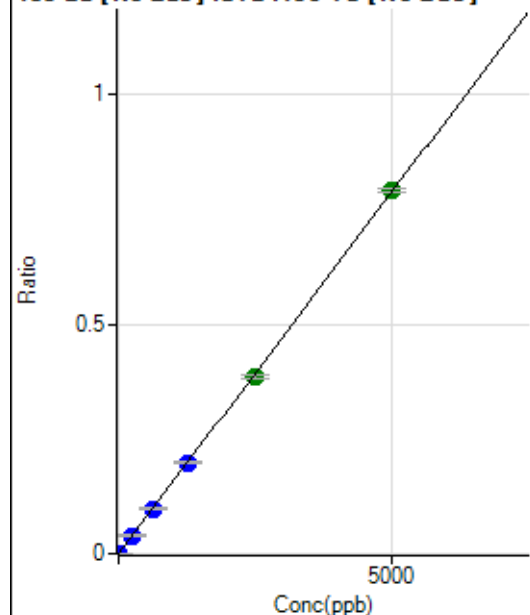
$$DL = 0.04653$$

$$BEC = 0.02457$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.33	0.0000	P	14.9
2	☐	10.000	9.672	11391.20	0.0015	P	4.0
3	☐	250.000	252.834	300670.51	0.0397	P	5.3
4	☐	625.000	625.539	729776.42	0.0983	P	6.3
5	☐	1250.000	1264.624	1458521.85	0.1987	P	1.8
6	☐	2500.000	2445.739	2932127.74	0.3844	A	2.7
7	☐	5000.000	5023.266	5900960.85	0.7894	A	1.1
8	☐			7841.59	0.0011	P	17.0

$$y = 1.5715\text{E-}004 * x + 7.9347\text{E-}006$$

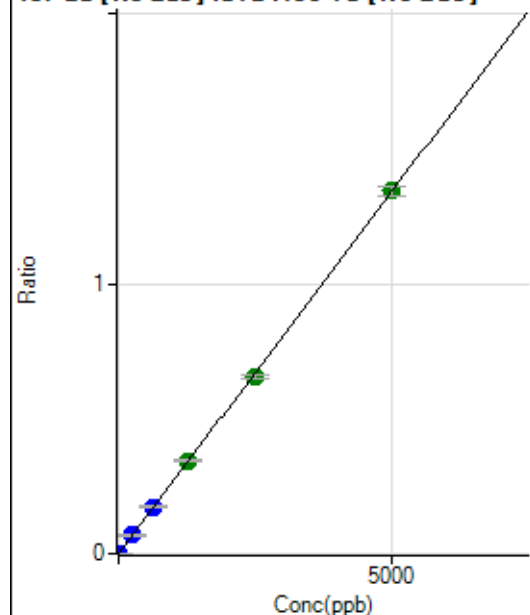
$$R = 0.9999$$

$$DL = 0.02254$$

$$BEC = 0.05049$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	57.6
2	☐	10.000	10.215	20502.24	0.0027	P	5.5
3	☐	250.000	255.303	517499.35	0.0684	P	5.6
4	☐	625.000	648.482	1289353.54	0.1737	P	6.9
5	☐	1250.000	1284.069	2524357.43	0.3440	A	3.1
6	☐	2500.000	2444.214	4995680.36	0.6548	A	2.3
7	☐	5000.000	5016.175	10045083.47	1.3438	A	2.9
8	☐			13346.30	0.0019	P	14.5

$$y = 2.6789E-004 * x + 1.3562E-005$$

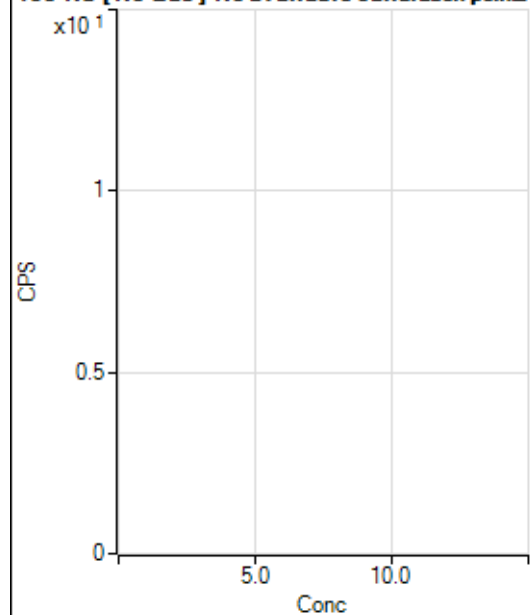
$$R = 0.9999$$

$$DL = 0.08754$$

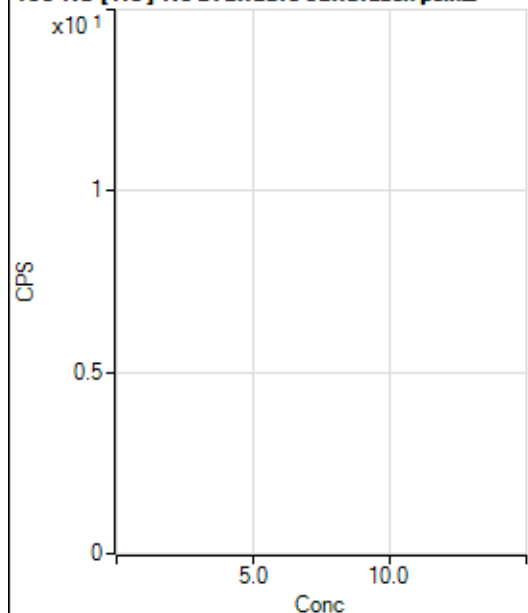
$$BEC = 0.05063$$

Weight: <None>

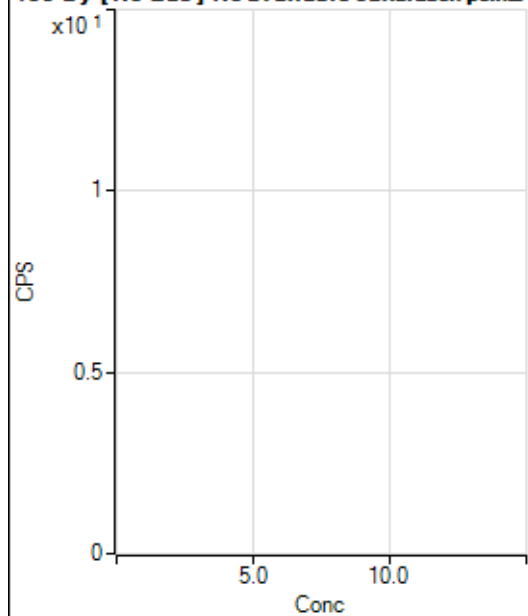
Min Conc: 0

150 Nd [No Gas] No available calibration points

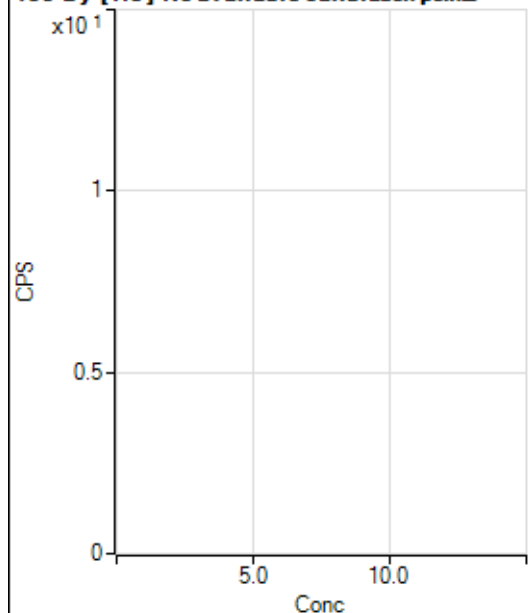
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	86.6
2	☐			8.89		P	43.3
3	☐			28.89		P	58.1
4	☐			80.00		P	46.4
5	☐			184.45		P	11.6
6	☐			355.57		P	12.2
7	☐			544.47		P	4.9
8	☐			42.22		P	71.2

150 Nd [He] No available calibration points

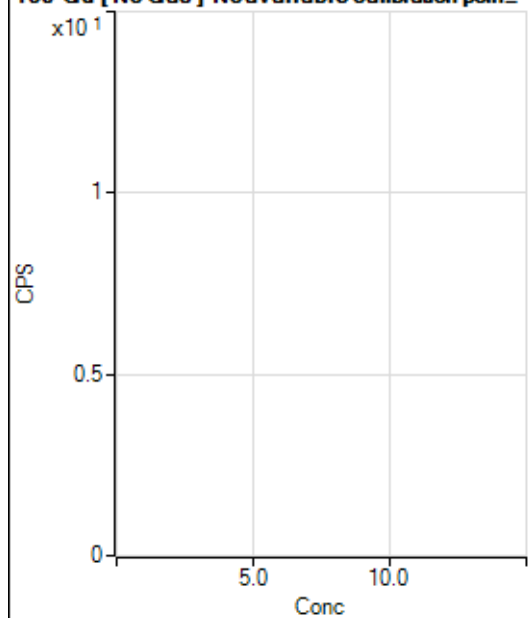
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			5.56		P	34.7
4	☐			13.33		P	25.0
5	☐			18.89		P	27.0
6	☐			40.00		P	30.0
7	☐			36.67		P	27.3
8	☐			10.00		P	33.3

156 Dy [No Gas] No available calibration points

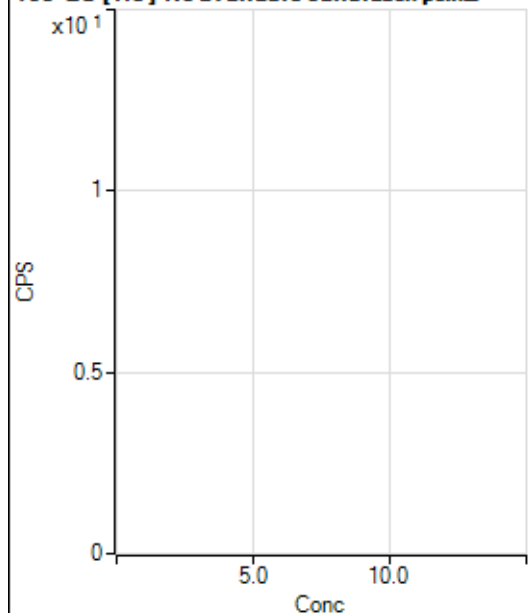
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			11.11		P	43.3
3	☐			22.22		P	57.3
4	☐			52.78		P	48.2
5	☐			113.89		P	11.2
6	☐			169.45		P	29.6
7	☐			358.35		P	16.3
8	☐			1080.63		P	2.9

156 Dy [He] No available calibration points

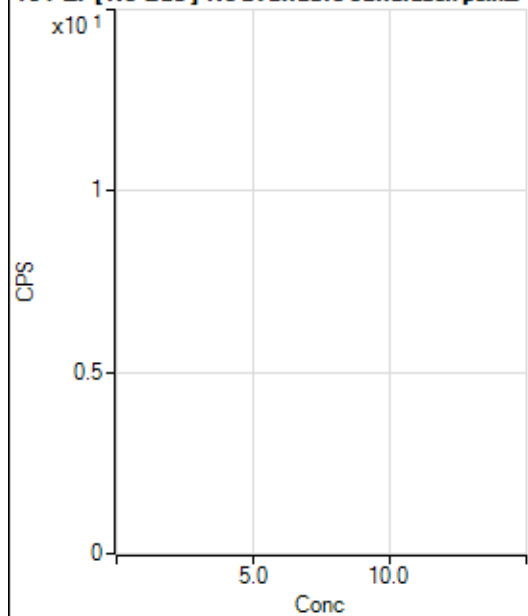
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			4.45		P	86.6
3	☐			17.78		P	43.3
4	☐			30.00		P	40.1
5	☐			41.11		P	9.4
6	☐			71.11		P	23.1
7	☐			138.89		P	7.7
8	☐			397.79		P	4.3

160 Gd [No Gas] Noavailable calibration poin_

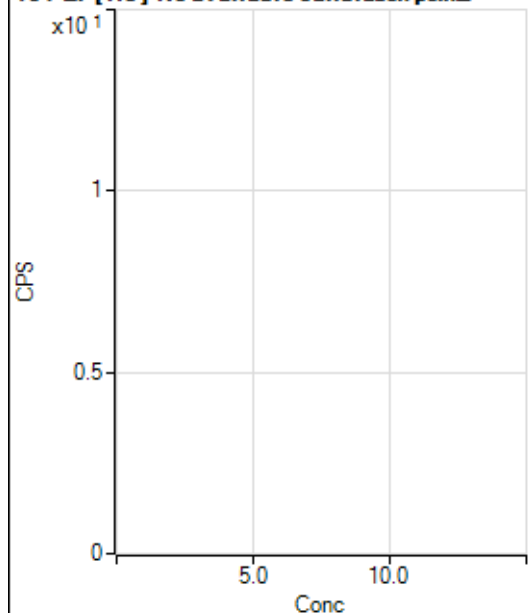
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.44		P	39.0
2	☐			61.11		P	28.4
3	☐			86.11		P	49.7
4	☐			91.67		P	56.8
5	☐			138.89		P	28.4
6	☐			225.01		P	32.9
7	☐			308.35		P	15.0
8	☐			1077.85		P	9.2

160 Gd [He] No available calibration points

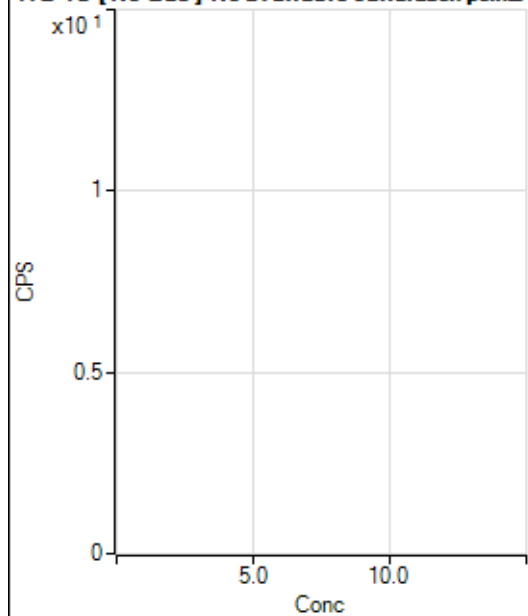
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			120.00		P	11.1
2	☐			114.45		P	10.2
3	☐			104.45		P	22.4
4	☐			125.56		P	11.1
5	☐			151.11		P	22.5
6	☐			164.45		P	11.2
7	☐			190.00		P	17.5
8	☐			525.57		P	6.8

164 Er [No Gas] No available calibration points

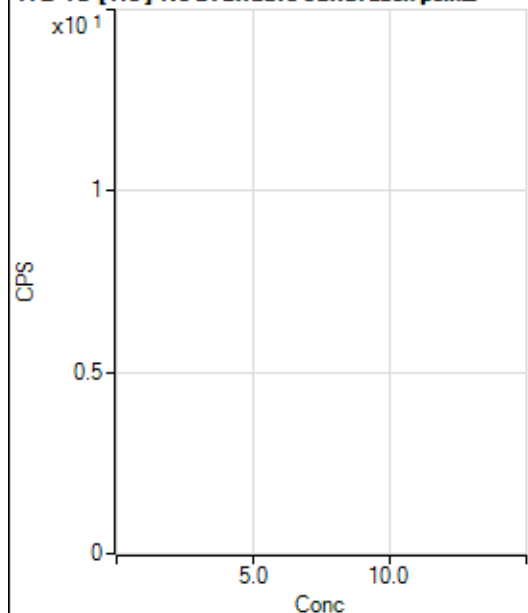
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	59.8
2	☐			66.67		P	25.0
3	☐			86.11		P	14.8
4	☐			58.33		P	65.5
5	☐			91.67		P	18.2
6	☐			130.56		P	36.9
7	☐			113.90		P	29.6
8	☐			66.67		P	0.0

164 Er [He] No available calibration points

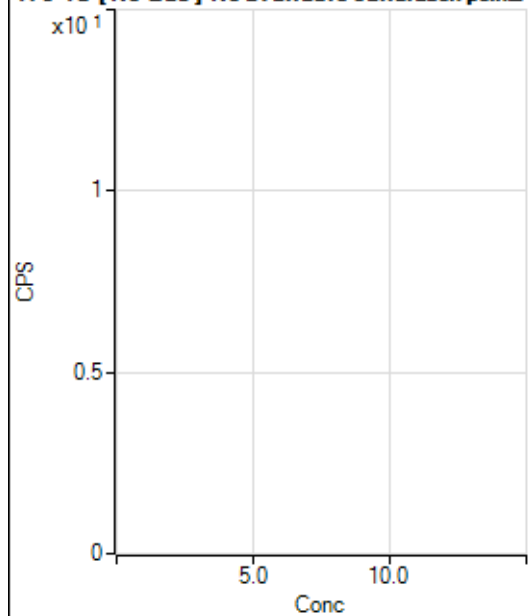
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26.66		P	21.7
2	☐			28.89		P	29.0
3	☐			18.89		P	66.8
4	☐			25.56		P	7.5
5	☐			30.00		P	29.4
6	☐			43.33		P	15.4
7	☐			24.45		P	15.8
8	☐			41.11		P	16.9

172 Yb [No Gas] No available calibration points

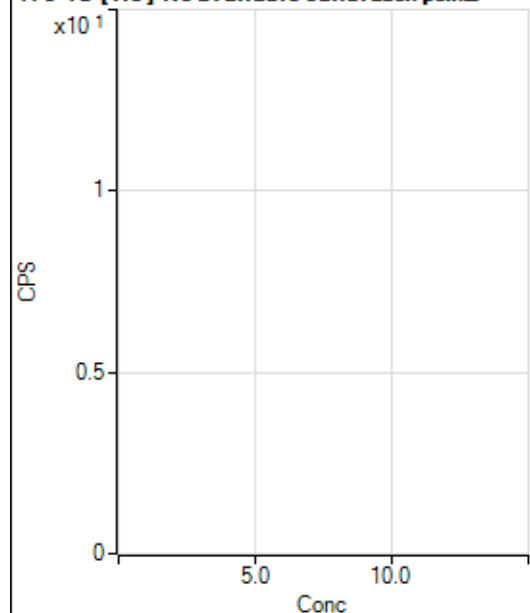
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	44.1
2	☐			38.89		P	32.7
3	☐			50.00		P	16.7
4	☐			66.67		P	43.3
5	☐			111.11		P	8.7
6	☐			116.67		P	14.3
7	☐			102.78		P	12.4
8	☐			413.91		P	8.1

172 Yb [He] No available calibration points

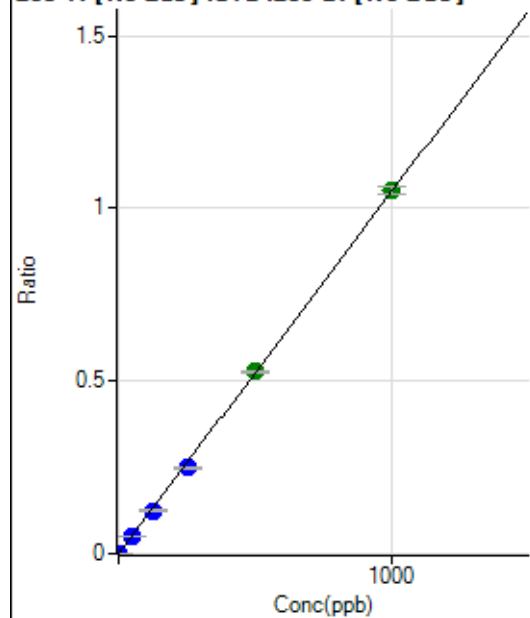
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.82		P	57.3
2	☐			22.22		P	114.
3	☐			22.22		P	25.0
4	☐			14.82		P	57.3
5	☐			33.33		P	60.1
6	☐			57.41		P	27.9
7	☐			44.45		P	25.0
8	☐			174.08		P	12.9

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1316.78		P	2.3
2	☐			1369.56		P	2.9
3	☐			2314.16		P	6.2
4	☐			3745.08		P	3.7
5	☐			5876.46		P	3.4
6	☐			10890.94		P	2.8
7	☐			19815.33		P	4.9
8	☐			1383.44		P	4.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7704.25		P	6.2
2	☐			7900.65		P	3.8
3	☐			8069.31		P	4.7
4	☐			8543.65		P	0.6
5	☐			9531.40		P	1.9
6	☐			11273.52		P	0.7
7	☐			14630.55		P	2.7
8	☐			7389.22		P	7.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	247.23	0.0001	P	17.4
2	☐	1.000	0.945	4531.49	0.0010	P	1.9
3	☐	50.000	47.415	217339.60	0.0497	P	1.7
4	☐	125.000	119.314	540980.94	0.1250	P	5.3
5	☐	250.000	236.637	1080157.64	0.2479	P	1.0
6	☐	500.000	502.448	2250795.86	0.5262	A	1.3
7	☐	1000.000	1002.957	4502305.44	1.0503	A	2.3
8	☐			3450.63	0.0009	P	27.4

$$y = 0.0010 * x + 5.8973E-005$$

$$R = 0.9999$$

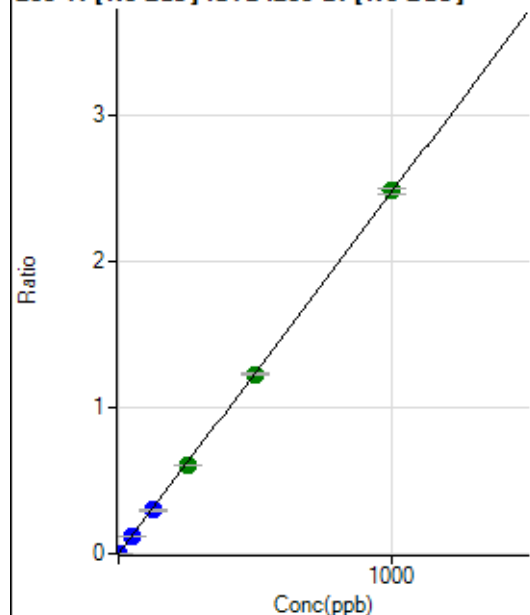
$$DL = 0.02946$$

$$BEC = 0.05632$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	616.70	0.0001	P	23.9
2	☐	1.000	0.946	10754.79	0.0025	P	1.9
3	☐	50.000	48.293	523414.95	0.1197	P	1.7
4	☐	125.000	121.007	1296882.36	0.2998	P	6.3
5	☐	250.000	245.002	2644865.34	0.6068	A	0.6
6	☐	500.000	495.992	5254096.69	1.2283	A	1.0
7	☐	1000.000	1003.838	10653061.87	2.4858	A	1.5
8	☐			8406.08	0.0022	P	24.3

$$y = 0.0025 * x + 1.4683E-004$$

$$R = 1.0000$$

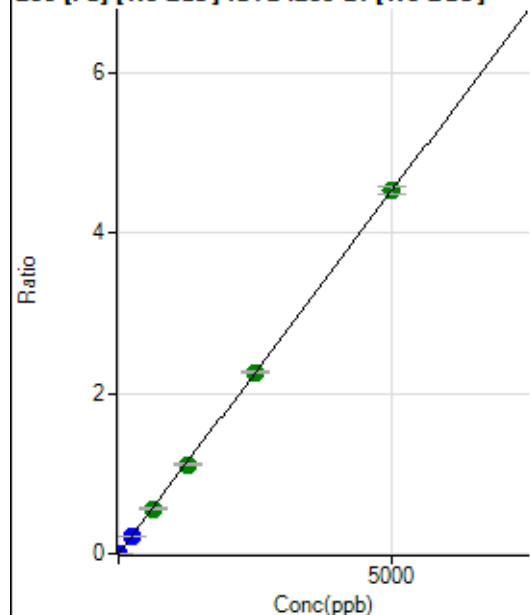
$$DL = 0.04259$$

$$BEC = 0.0593$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	418.54	0.0001	P	10.1
2	☐	1.000	0.905	3971.06	0.0009	P	2.5
3	☐	250.000	232.718	921836.00	0.2109	P	2.3
4	☐	625.000	620.377	2432409.95	0.5620	A	4.9
5	☐	1250.000	1227.580	4847259.48	1.1119	A	1.5
6	☐	2500.000	2506.186	9709892.81	2.2700	A	0.5
7	☐	5000.000	5003.954	19423521.73	4.5323	A	2.2
8	☐			9117.77	0.0024	P	41.7

$$y = 9.0572E-004 * x + 9.9752E-005$$

$$R = 1.0000$$

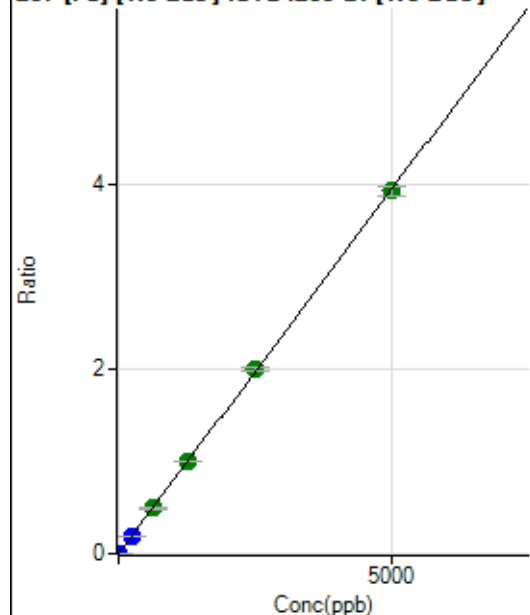
$$DL = 0.03336$$

$$BEC = 0.1101$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	353.72	0.0001	P	14.1
2	☐	1.000	0.859	3291.22	0.0008	P	7.7
3	☐	250.000	238.861	823856.64	0.1885	P	2.5
4	☐	625.000	630.108	2151654.91	0.4970	A	4.2
5	☐	1250.000	1265.306	4349160.02	0.9980	A	1.3
6	☐	2500.000	2527.960	8528187.00	1.9938	A	1.8
7	☐	5000.000	4982.112	16838076.65	3.9293	A	2.5
8	☐			8472.69	0.0022	P	43.4

$$y = 7.8866\text{E-}004 * x + 8.4315\text{E-}005$$

$$R = 1.0000$$

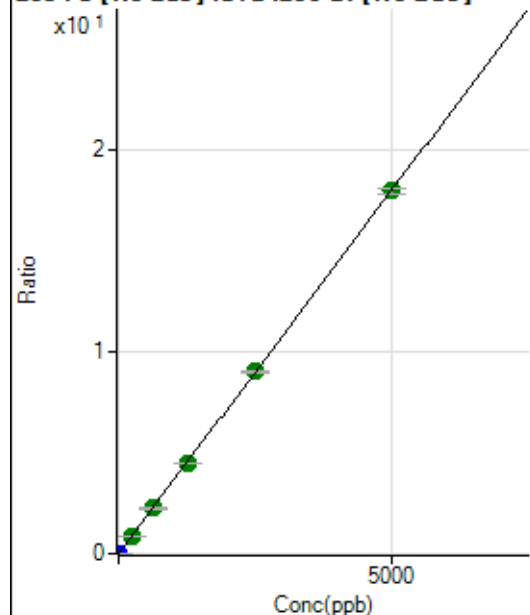
$$DL = 0.04528$$

$$BEC = 0.1069$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1585.26	0.0004	P	3.8
2	☐	1.000	0.878	15301.96	0.0035	P	4.2
3	☐	250.000	242.525	3822590.13	0.8745	A	3.1
4	☐	625.000	625.363	9757055.08	2.2543	A	4.8
5	☐	1250.000	1243.659	19537825.87	4.4828	A	0.5
6	☐	2500.000	2512.518	38736751.79	9.0561	A	1.1
7	☐	5000.000	4995.655	77164714.57	18.0060	A	1.9
8	☐			37755.15	0.0100	P	43.4

$$y = 0.0036 * x + 3.7765\text{E-}004$$

$$R = 1.0000$$

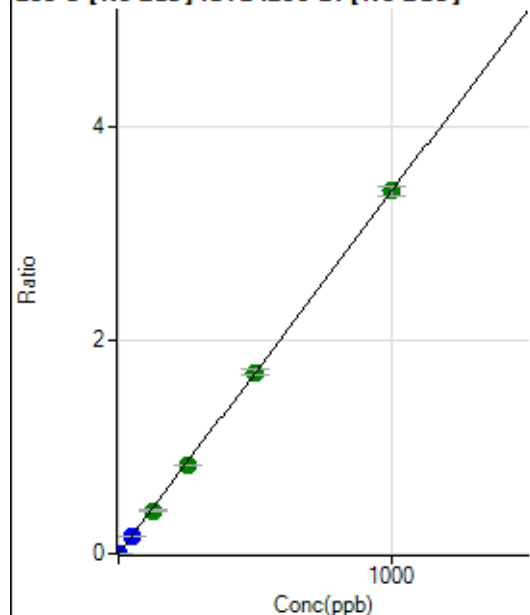
$$DL = 0.01197$$

$$BEC = 0.1048$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	305.57	0.0001	P	7.1
2	☐	1.000	0.896	13468.63	0.0031	P	4.1
3	☐	50.000	46.112	685756.33	0.1569	P	2.0
4	☐	125.000	119.097	1752745.76	0.4051	A	5.6
5	☐	250.000	244.051	3617413.45	0.8300	A	0.8
6	☐	500.000	501.623	7296049.12	1.7058	A	2.7
7	☐	1000.000	1001.608	14600609.70	3.4060	A	2.5
8	☐			5588.67	0.0015	P	52.3

$$y = 0.0034 * x + 7.2842E-005$$

$$R = 1.0000$$

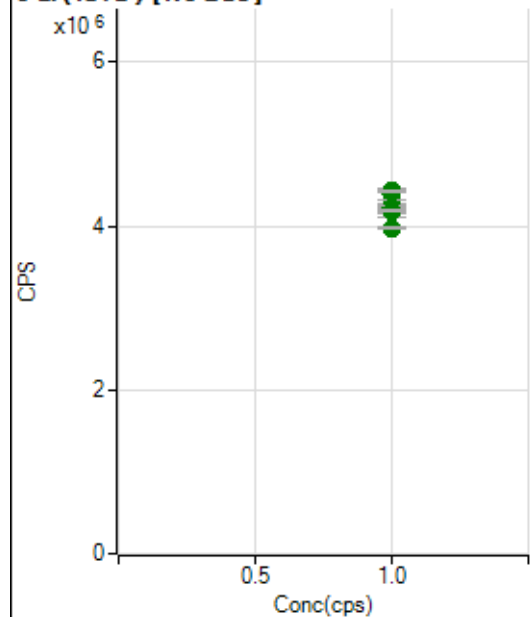
$$DL = 0.004579$$

$$BEC = 0.02142$$

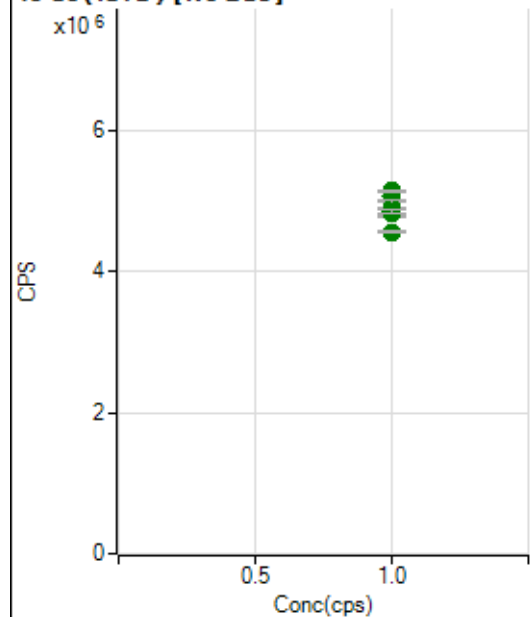
Weight: <None>

Min Conc: 0

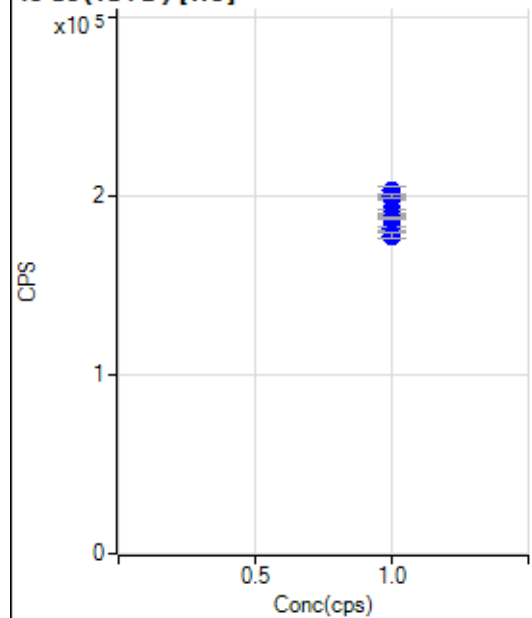
6 Li (ISTD) [No Gas]



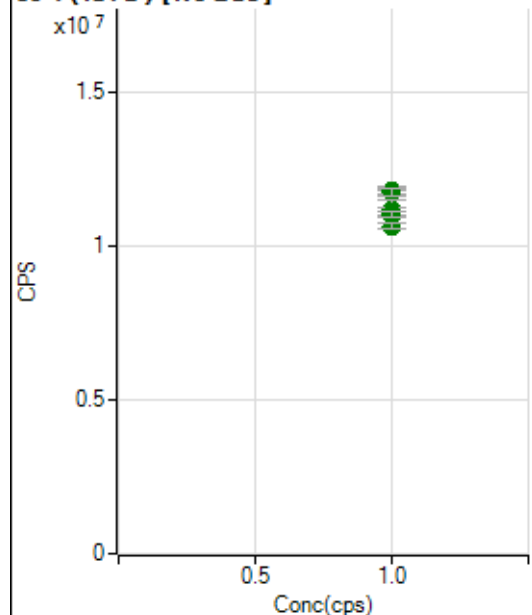
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		4246555.18		A	1.2
2	☐	1.000		4393708.61		A	2.9
3	☐	1.000		4429213.75		A	0.8
4	☐	1.000		4219588.13		A	4.7
5	☐	1.000		4233955.03		A	1.2
6	☐	1.000		4177197.02		A	0.5
7	☐	1.000		4190158.84		A	1.1
8	☐	1.000		3971306.77		A	0.7

45 Sc (ISTD) [No Gas]

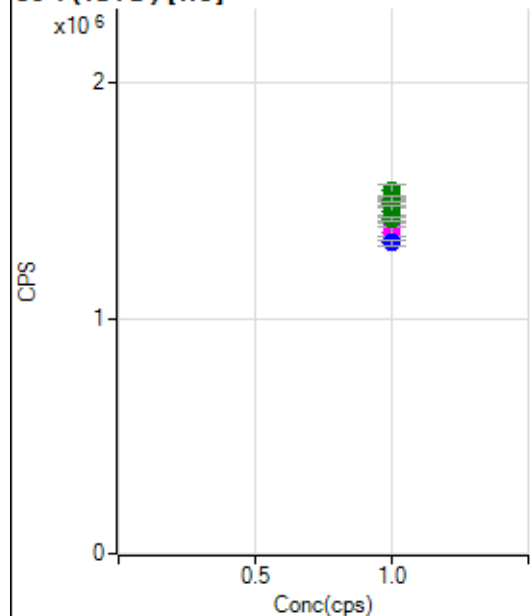
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5017858.22		A	0.5
2	☐	1.000		5086707.88		A	2.5
3	☐	1.000		5150893.33		A	0.3
4	☐	1.000		4904953.64		A	4.3
5	☐	1.000		4841923.78		A	2.8
6	☐	1.000		4835608.12		A	1.7
7	☐	1.000		4862526.70		A	1.2
8	☐	1.000		4569949.76		A	1.0

45 Sc (ISTD) [He]

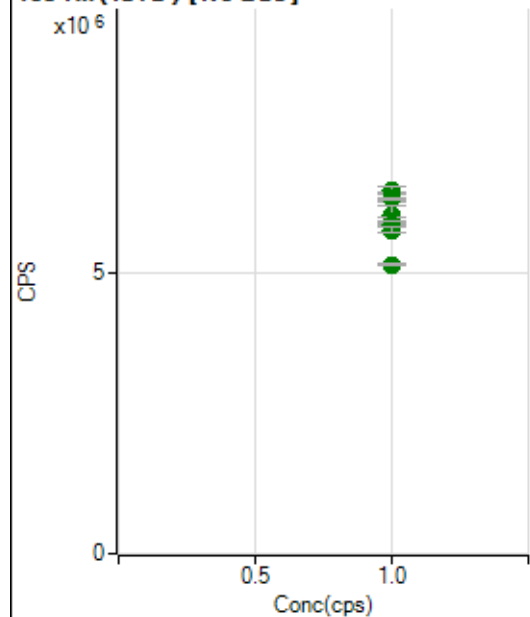
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		198169.32		P	0.3
2	☐	1.000		202625.95		P	2.4
3	☐	1.000		199428.95		P	1.1
4	☐	1.000		192277.01		P	0.2
5	☐	1.000		189140.86		P	0.5
6	☐	1.000		181593.67		P	1.4
7	☐	1.000		187365.46		P	0.6
8	☐	1.000		177274.74		P	1.8

89 Y (ISTD) [No Gas]

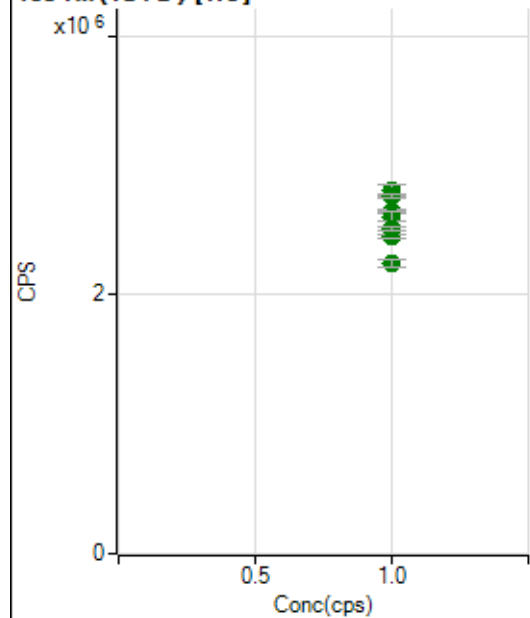
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11762851.21		A	1.3
2	☐	1.000		11805750.38		A	2.6
3	☐	1.000		11741206.91		A	2.0
4	☐	1.000		11210817.89		A	5.1
5	☐	1.000		11123303.31		A	2.6
6	☐	1.000		11072937.06		A	0.8
7	☐	1.000		11022664.07		A	1.6
8	☐	1.000		10660435.05		A	1.9

89 Y (ISTD) [He]

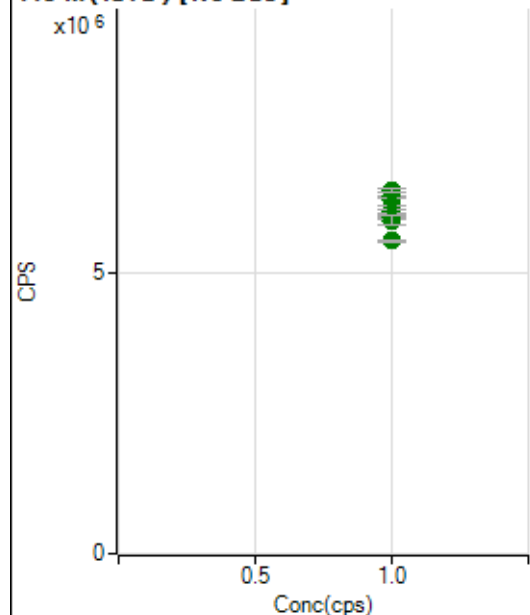
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1488078.52		A	2.0
2	☐	1.000		1541199.91		A	4.0
3	☐	1.000		1504992.03		A	1.4
4	☐	1.000		1457982.72		A	2.6
5	☐	1.000		1409221.19		M	1.0
6	☐	1.000		1367250.63		M	2.5
7	☐	1.000		1418408.76		A	1.3
8	☐	1.000		1320196.13		P	1.9

103 Rh (ISTD) [No Gas]

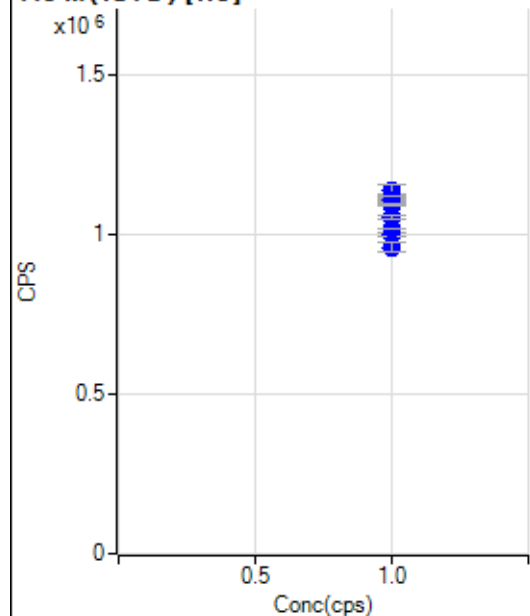
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6332298.67		A	2.4
2	☐	1.000		6440458.78		A	2.0
3	☐	1.000		6310692.85		A	0.4
4	☐	1.000		6010716.67		A	5.8
5	☐	1.000		5922570.62		A	1.7
6	☐	1.000		5853976.48		A	1.6
7	☐	1.000		5742427.56		A	1.7
8	☐	1.000		5126842.78		A	0.9

103 Rh (ISTD) [He]

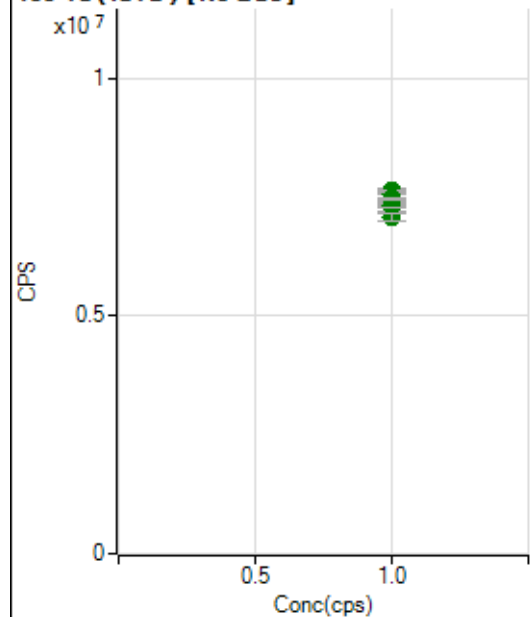
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2762817.74		A	0.5
2	☐	1.000		2804246.90		A	3.5
3	☐	1.000		2762152.63		A	1.3
4	☐	1.000		2652083.36		A	1.2
5	☐	1.000		2603028.80		A	2.8
6	☐	1.000		2454558.37		A	1.1
7	☐	1.000		2506279.16		A	1.1
8	☐	1.000		2247009.57		A	2.4

115 In (ISTD) [No Gas]

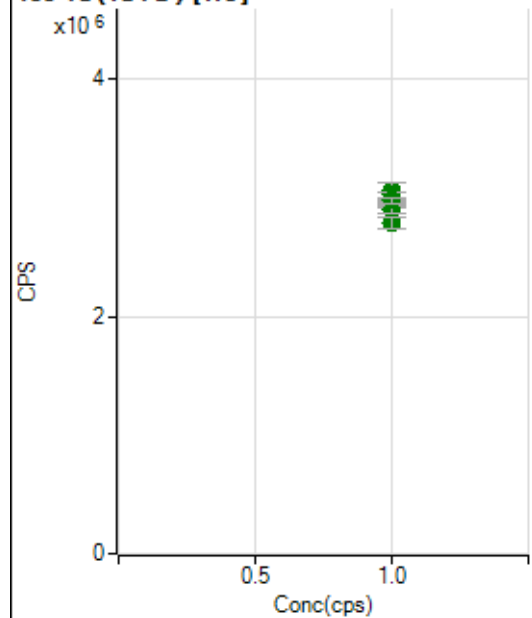
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6279521.01		A	2.9
2	☐	1.000		6371637.26		A	1.9
3	☐	1.000		6449705.19		A	1.2
4	☐	1.000		6073977.70		A	3.3
5	☐	1.000		6051407.55		A	2.2
6	☐	1.000		5998153.65		A	1.3
7	☐	1.000		5921319.02		A	3.1
8	☐	1.000		5564300.81		A	0.5

115 In (ISTD) [He]

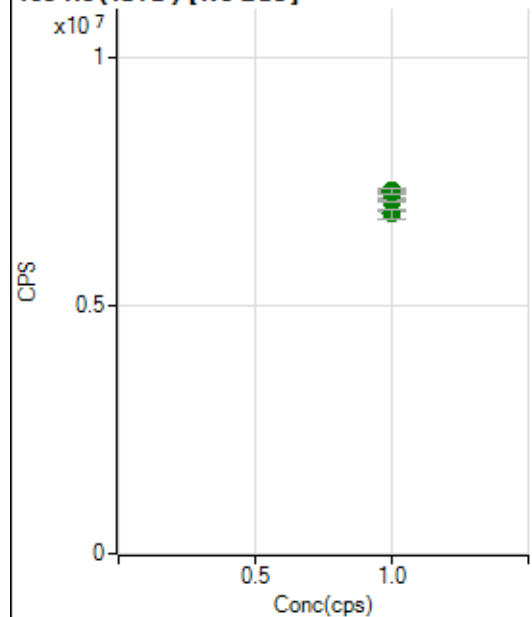
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1114695.89		P	1.5
2	☐	1.000		1134751.10		P	4.0
3	☐	1.000		1108857.87		P	1.4
4	☐	1.000		1090285.79		P	0.3
5	☐	1.000		1051429.18		P	1.4
6	☐	1.000		998313.87		P	1.0
7	☐	1.000		1015583.54		P	0.3
8	☐	1.000		958636.69		P	3.4

159 Tb (ISTD) [No Gas]

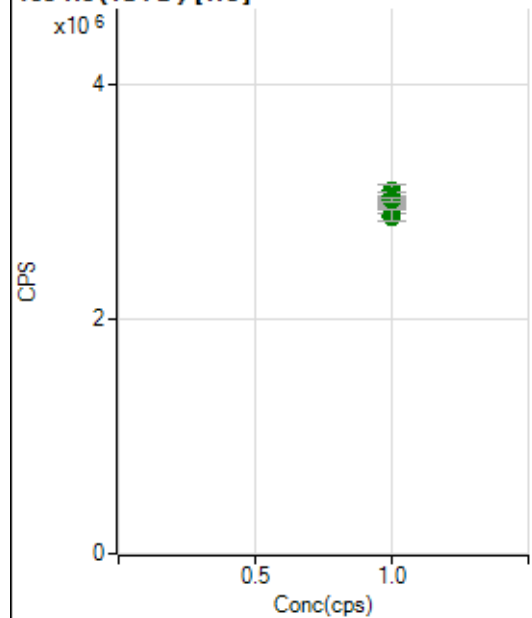
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7356220.86		A	0.7
2	☐	1.000		7460512.80		A	2.5
3	☐	1.000		7572928.08		A	2.9
4	☐	1.000		7442380.24		A	6.2
5	☐	1.000		7339315.31		A	1.4
6	☐	1.000		7629755.23		A	0.9
7	☐	1.000		7475381.35		A	0.6
8	☐	1.000		7077887.54		A	1.8

159 Tb (ISTD) [He]

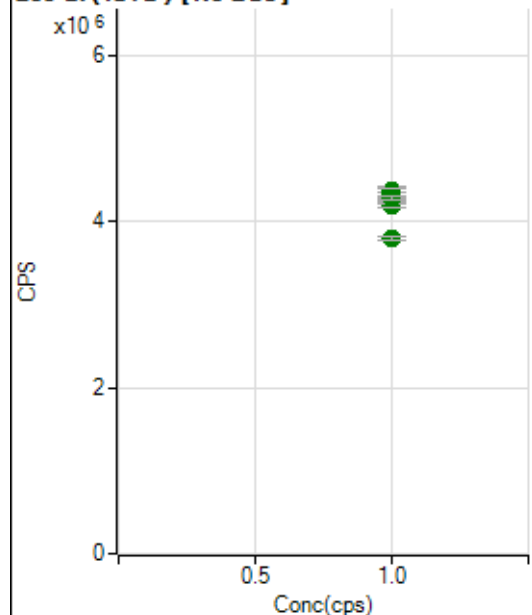
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2947136.83		A	2.3
2	☐	1.000		3058021.17		A	4.4
3	☐	1.000		2957429.02		A	0.6
4	☐	1.000		3024930.44		A	1.3
5	☐	1.000		2984023.25		A	1.2
6	☐	1.000		2899149.16		A	1.8
7	☐	1.000		2981504.96		A	1.7
8	☐	1.000		2789757.34		A	3.6

165 Ho (ISTD) [No Gas]

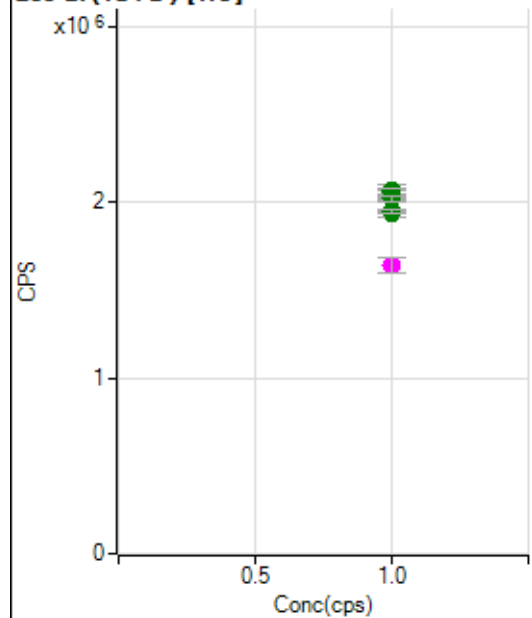
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7155731.41		A	2.1
2	☐	1.000		7265240.96		A	2.3
3	☐	1.000		7284667.26		A	0.9
4	☐	1.000		7085864.14		A	5.5
5	☐	1.000		7118397.99		A	0.3
6	☐	1.000		7285215.87		A	0.9
7	☐	1.000		7311569.78		A	1.6
8	☐	1.000		6842703.54		A	3.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2962298.01		A	0.7
2	☐	1.000		3092849.22		A	3.6
3	☐	1.000		3020194.19		A	2.4
4	☐	1.000		3043043.64		A	0.9
5	☐	1.000		3050992.52		A	2.1
6	☐	1.000		2863561.14		A	2.4
7	☐	1.000		3016592.28		A	1.3
8	☐	1.000		2886720.79		A	3.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4196697.02		A	1.0
2	☐	1.000		4321430.63		A	1.7
3	☐	1.000		4372025.14		A	1.2
4	☐	1.000		4334655.87		A	4.7
5	☐	1.000		4358487.26		A	1.7
6	☐	1.000		4277429.21		A	0.3
7	☐	1.000		4286159.17		A	1.5
8	☐	1.000		3791185.40		A	1.3

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2057532.16		A	0.9
2	☐	1.000		2063635.14		A	3.7
3	☐	1.000		2063565.46		A	1.3
4	☐	1.000		2026234.87		A	1.0
5	☐	1.000		2022640.60		A	1.6
6	☐	1.000		1931947.73		A	1.7
7	☐	1.000		1945534.47		A	1.3
8	☐	1.000		1640686.56		M	5.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020323 MS.b
Acq. Date-Time 2023-02-03 12:55:03
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		12269	122692.42			2.144	5.000
24		82354	823541.53			2.332	5.000
25		10984	109838.51			2.268	5.000
26		12669	126685.96			2.732	5.000
59		60259	602592.31			2.721	5.000
113		6000	60002.19			2.938	5.000
115		77426	774261.12			3.560	5.000
206		15459	154590.08			3.512	5.000
207		13883	138833.39			2.227	5.000
208		33046	330462.14			3.286	5.000
220		1	5.90			17.368	

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

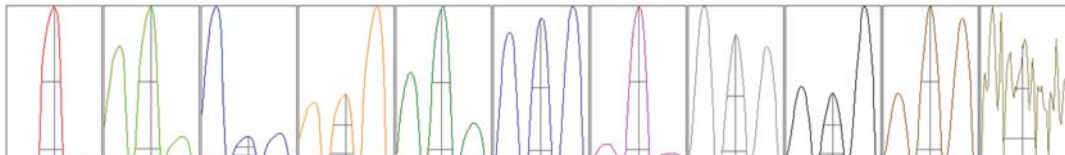
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11809	12366	12478	12356	12336
24	79400	83082	84341	81602	83347
25	10567	11216	10980	11114	11043
26	12055	12890	12782	12834	12783
59	57378	61057	61427	60845	60589
113	5712	6036	6123	6155	5975
115	72904	77399	77528	79776	79523
206	14508	15523	15793	15788	15683
207	13337	13945	14082	14042	14010
208	31201	32998	33754	33872	33406

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	21640.56	9.05	8.90 - 9.10	
24	148055.56	24.00	23.90 - 24.10	
25	19917.55	25.00	24.90 - 25.10	
26	22718.28	26.00	25.90 - 26.10	
59	111465.82	58.95	58.90 - 59.10	
113	11983.40	113.00	112.90 - 113.10	
115	151625.75	115.05	114.90 - 115.10	
206	30353.79	206.00	205.90 - 206.10	
207	27389.16	207.00	206.90 - 207.10	
208	64395.60	208.00	207.90 - 208.10	
220	0.85	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.738	0.900	
24	0.59	0.783	0.900	
25	0.59	0.741	0.900	
26	0.59	0.744	0.900	
59	0.56	0.772	0.900	
113	0.52	0.723	0.900	
115	0.53	0.732	0.900	
206	0.53	0.771	0.900	
207	0.53	0.772	0.900	
208	0.54	0.777	0.900	
220	0.35	0.970		

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

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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	9.5 V	Deflect	16.0 V
Extract 2	-165.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-85 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	0.9994	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		13631	136308.47			0.787	
89		16609	166091.28			1.384	
205		9108	91075.01			0.883	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	13628	13765	13467	13630	13664
89	16494	16865	16305	16575	16806
205	9089	9130	8982	9136	9200

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	9.5 V	Deflect	1.8 V
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US EPA Tune Check Report

Extract 2	-165.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-85 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	0.9994	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
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EM

Discriminator	4.4 mV	Analog HV	2306 V	Pulse HV	1648 V
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