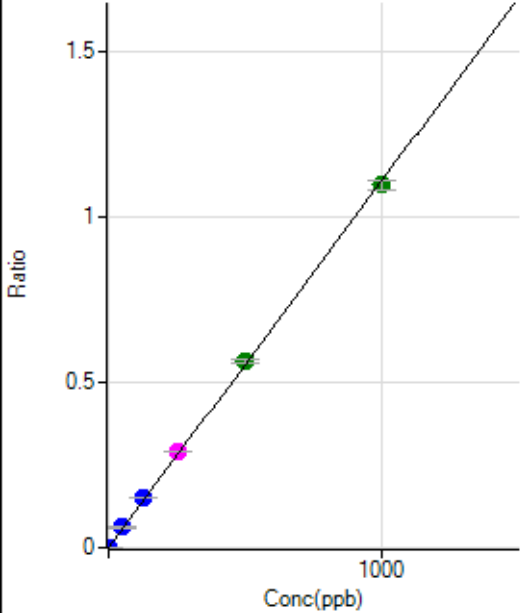


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7040424 MS.b\
 Analysis File: P7040424 MS.batch.bin
 DA Date-Time: 2024-04-04 11:17:34
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-04-04 10:50:04
2	005CALS.d	S02	2024-04-04 10:53:19
3	007CALS.d	S03	2024-04-04 10:59:50
4	008CALS.d	S04	2024-04-04 11:02:54
5	009CALS.d	S05	2024-04-04 11:05:39
6	010CALS.d	S06	2024-04-04 11:08:28
7	011CALS.d	S07	2024-04-04 11:11:16
8	012CALS.d	S08	2024-04-04 11:14:03

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	93.34	0.0000	P	15.9
2	☐	1.000	1.065	4312.86	0.0012	P	2.1
3	☐	50.000	55.975	213168.26	0.0622	P	6.6
4	☐	125.000	136.994	529146.26	0.1521	P	0.6
5	☐	250.000	263.043	1032913.62	0.2920	M	1.3
6	☐	500.000	509.956	1929404.81	0.5661	A	2.2
7	☐	1000.000	989.963	3757693.69	1.0989	A	2.5
8	☐			836.70	0.0003	P	22.8

$y = 0.0011 * x + 2.6008E-005$

$R = 0.9998$

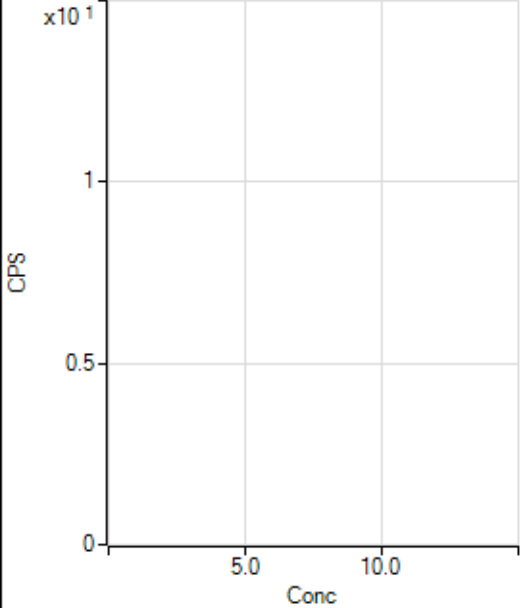
$DL = 0.01118$

$BEC = 0.02343$

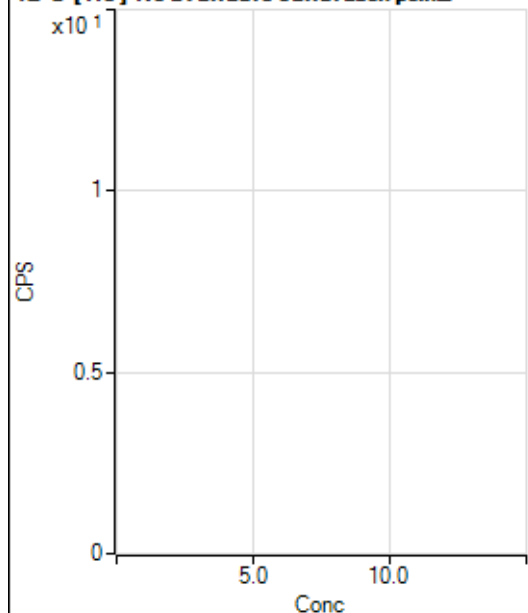
Weight: <None>

Min Conc: 0

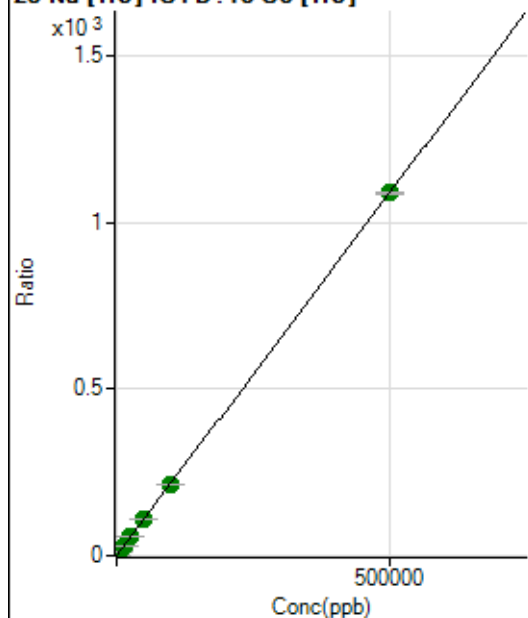
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38558.21	0.0653	P	0.9
2	☐	500.000	480.019	659575.14	1.1111	P	0.8
3	☐	5000.000	4903.861	6218703.38	10.7488	A	0.2
4	☐	12500.000	12724.527	15767358.79	27.7868	A	0.6
5	☐	25000.000	25479.144	31050883.43	55.5738	A	0.9
6	☐	50000.000	50015.519	61419287.42	109.0285	A	0.3
7	☐	100000.00	98927.538	124494991.48	215.5875	A	0.5
8	☐	500000.00	500184.35	615489626.38	1,089.760	A	0.6

$$y = 0.0022 * x + 0.0653$$

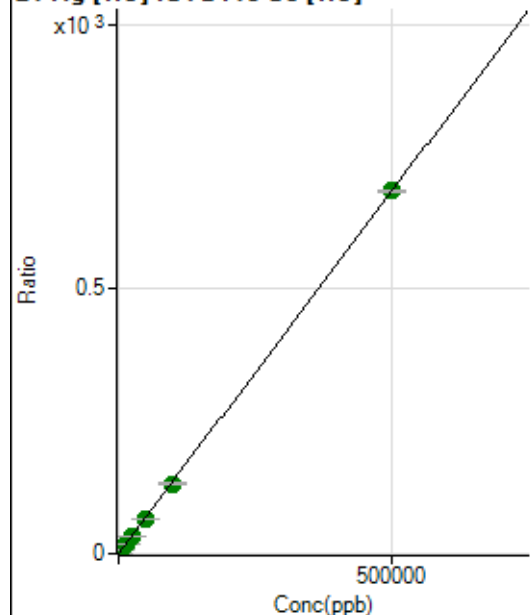
$$R = 1.0000$$

$$DL = 0.7743$$

$$BEC = 29.97$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	483.35	0.0008	P	9.1
2	☐	500.000	483.067	392837.37	0.6617	P	0.5
3	☐	5000.000	4804.341	3803309.49	6.5740	A	1.5
4	☐	12500.000	12382.029	9613253.81	16.9415	A	0.3
5	☐	25000.000	24761.315	18928280.13	33.8785	A	1.3
6	☐	50000.000	48461.847	37351338.33	66.3048	A	0.6
7	☐	100000.00	96631.071	76345581.09	132.2084	A	0.9
8	☐	500000.00	500844.45	387021118.68	685.2405	A	0.6

$$y = 0.0014 * x + 8.1856E-004$$

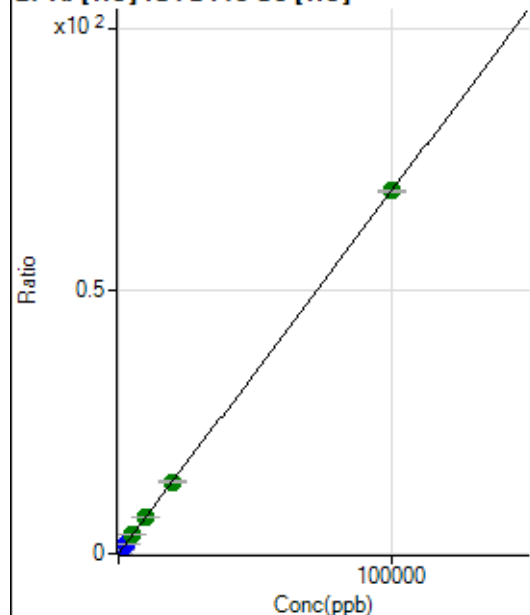
$$R = 1.0000$$

$$DL = 0.1633$$

$$BEC = 0.5983$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	347.78	0.0006	P	9.1
2	☐	20.000	19.602	8382.36	0.0141	P	1.2
3	☐	1000.000	1047.573	418705.45	0.7237	P	1.1
4	☐	2500.000	2648.871	1037896.57	1.8291	P	0.7
5	☐	5000.000	5135.030	1980910.56	3.5454	A	0.8
6	☐	10000.000	9994.531	3886944.80	6.8999	A	0.3
7	☐	20000.000	19818.388	7900823.08	13.6814	A	0.6
8	☐	100000.00	100025.92	38998820.53	69.0496	A	0.7

$$y = 6.9031E-004 * x + 5.8892E-004$$

$$R = 1.0000$$

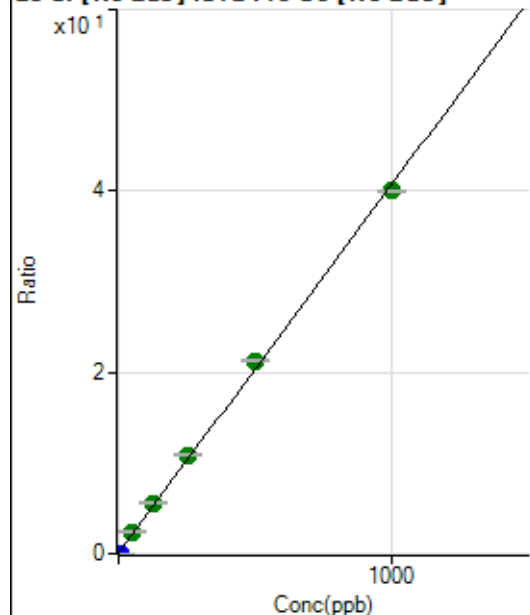
$$DL = 0.2321$$

$$BEC = 0.8531$$

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	701130.28	0.0892	P	1.5
2	☐	10.000	0.082	731705.93	0.0926	P	2.7
3	☐	50.000	56.831	17684484.46	2.3975	A	9.1
4	☐	125.000	136.066	42984042.69	5.6157	A	0.7
5	☐	250.000	266.314	83912525.41	10.9059	A	1.5
6	☐	500.000	521.720	161136506.49	21.2795	A	0.7
7	☐	1000.000	983.436	316235366.40	40.0326	A	0.5
8	☐			1619488.13	0.2154	A	1.5

$$y = 0.0406 * x + 0.0892$$

$$R = 0.9993$$

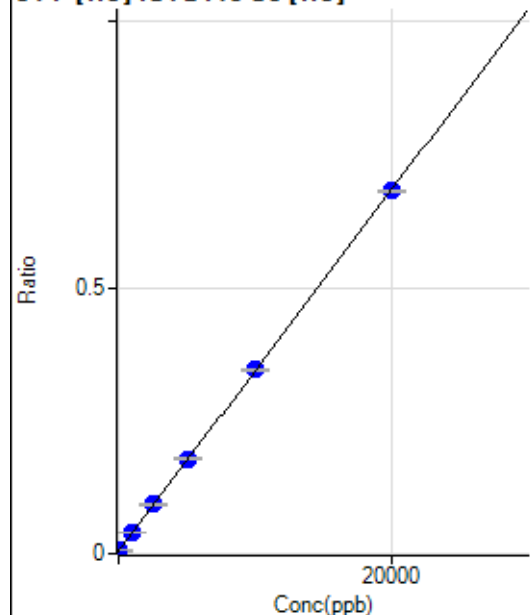
$$DL = 0.096$$

$$BEC = 2.197$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-16.978	2616.91	0.0044	P	1.9
2	☐	0.000	16.978	3314.84	0.0056	P	4.4
3	☐	1000.000	1000.366	22537.82	0.0390	P	0.3
4	☐	2500.000	2576.347	52450.67	0.0924	P	1.1
5	☐	5000.000	5116.495	99811.34	0.1786	P	0.7
6	☐	10000.000	10027.656	194519.33	0.3453	P	0.9
7	☐	20000.000	19947.486	393800.95	0.6819	P	0.2
8	☐			2770.28	0.0049	P	2.6

$$y = 3.3936E-005 * x + 0.0050$$

$$R = 1.0000$$

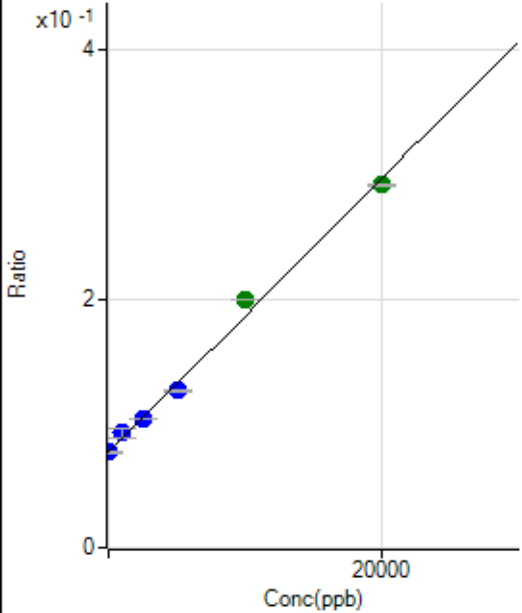
$$DL = 14.75$$

$$BEC = 147.6$$

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	0.709	602660.34	0.0767	P	0.2
2	☐	0.000	-0.709	606199.73	0.0767	P	1.0
3	☐	1000.000	1400.570	679744.52	0.0921	P	8.8
4	☐	2500.000	2442.146	793082.89	0.1036	P	1.0
5	☐	5000.000	4516.810	973162.39	0.1265	P	0.7
6	☐	10000.000	11156.850	1511821.83	0.1996	A	0.3
7	☐	20000.000	19529.576	2305793.75	0.2919	A	0.6
8	☐			532371.21	0.0708	P	2.0

$y = 1.1018E-005 * x + 0.0767$

R = 0.9970

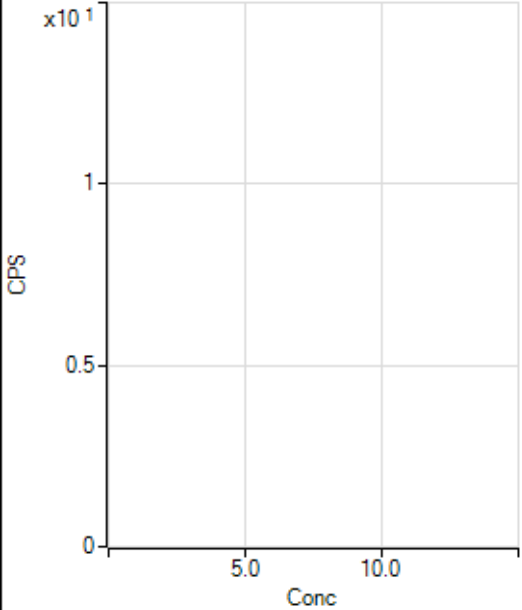
DL = 120.8

BEC = 6962

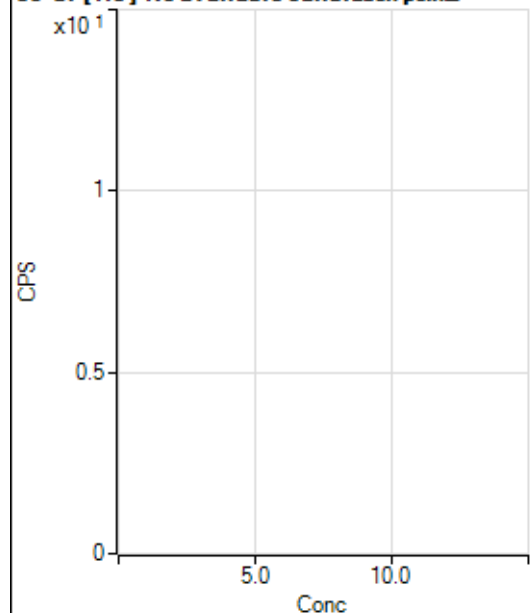
Weight: <None>

Min Conc: 0

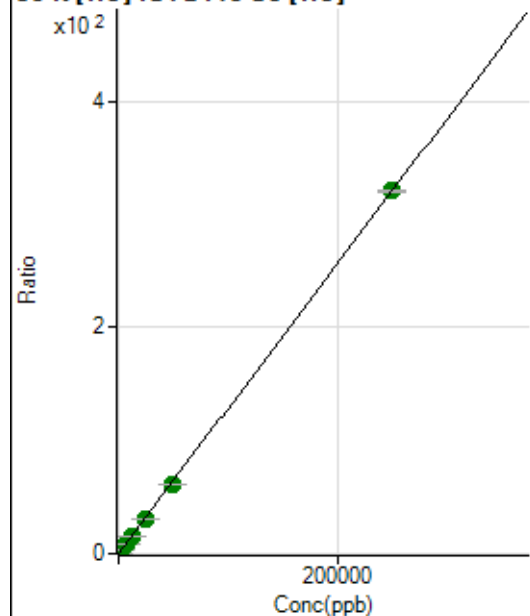
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	91270.18	0.1546	P	0.7
2	☐	500.000	479.540	456267.68	0.7686	P	0.2
3	☐	2500.000	2397.872	1865919.71	3.2249	A	1.5
4	☐	6250.000	6019.402	4461239.83	7.8621	A	0.4
5	☐	12500.000	12069.627	8721653.27	15.6091	A	0.1
6	☐	25000.000	23895.056	17323070.99	30.7509	A	0.5
7	☐	50000.000	47399.682	35138234.75	60.8473	A	0.8
8	☐	250000.00	250658.90	181360390.63	321.1099	A	0.7

$$y = 0.0013 * x + 0.1546$$

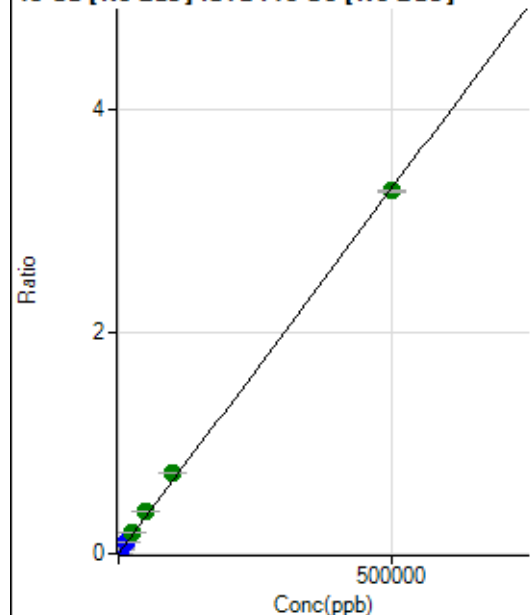
$$R = 0.9999$$

$$DL = 2.459$$

$$BEC = 120.7$$

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	1158.95	0.0001	P	3.5
2	☐	500.000	497.371	27029.72	0.0034	P	2.1
3	☐	5000.000	6269.416	305313.85	0.0414	P	9.4
4	☐	12500.000	15073.549	760288.53	0.0993	P	0.5
5	☐	25000.000	28333.227	1435579.06	0.1866	A	0.9
6	☐	50000.000	57230.766	2852475.30	0.3767	A	1.7
7	☐	100000.00	110306.28	5734735.82	0.7259	A	1.7
8	☐	500000.00	496971.97	24585123.24	3.2701	A	0.7

$$y = 6.5798\text{E-}006 * x + 1.4754\text{E-}004$$

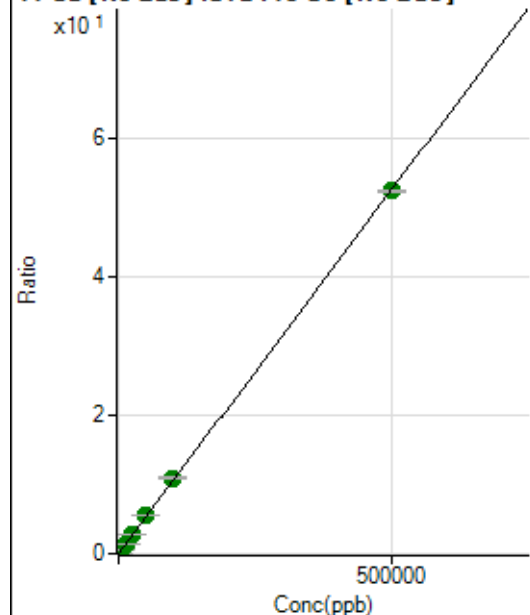
$$R = 0.9997$$

$$DL = 2.355$$

$$BEC = 22.42$$

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	20763.21	0.0026	P	0.8
2	☐	500.000	499.515	435022.89	0.0550	P	1.0
3	☐	5000.000	5583.354	4337999.55	0.5883	A	9.8
4	☐	12500.000	13537.450	10889834.15	1.4227	A	0.4
5	☐	25000.000	26844.117	21687058.29	2.8186	A	1.4
6	☐	50000.000	53796.473	42751904.36	5.6458	A	0.8
7	☐	100000.00	104142.98	86320207.04	10.9271	A	1.5
8	☐	500000.00	498667.78	393298371.92	52.3122	A	0.8

$$y = 1.0490\text{E-}004 * x + 0.0026$$

$$R = 0.9999$$

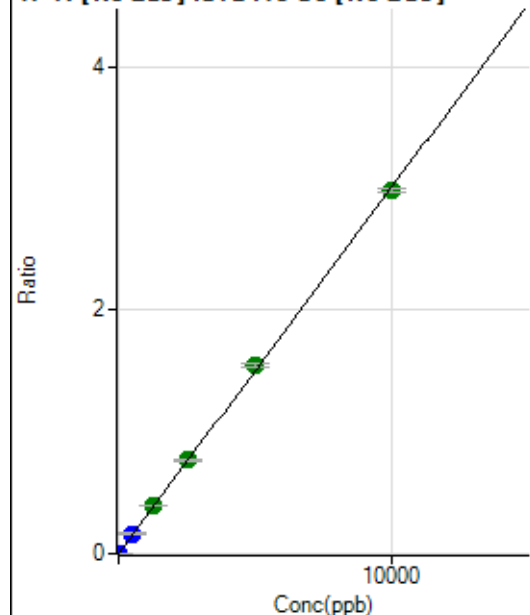
$$DL = 0.5932$$

$$BEC = 25.2$$

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	180.00	0.0000	P	24.1
2	☐	5.000	4.949	11934.81	0.0015	P	3.0
3	☐	500.000	547.353	1213300.34	0.1645	P	9.4
4	☐	1250.000	1290.004	2967671.73	0.3877	A	0.5
5	☐	2500.000	2559.555	5918984.22	0.7693	A	1.4
6	☐	5000.000	5142.201	11701648.57	1.5454	A	2.0
7	☐	10000.000	9906.643	23519153.82	2.9773	A	1.1
8	☐			3622.70	0.0005	P	14.7

$$y = 3.0053\text{E-}004 * x + 2.2909\text{E-}005$$

$$R = 0.9998$$

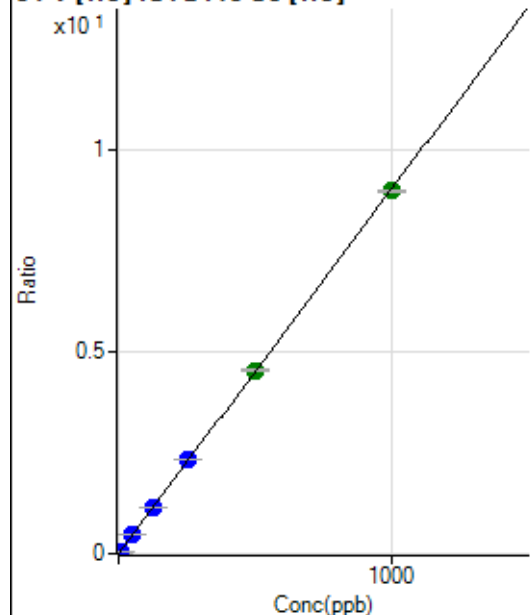
$$DL = 0.05522$$

$$BEC = 0.07623$$

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	18.89	0.0000	P	10.1
2	☐	5.000	4.940	26427.64	0.0445	P	1.8
3	☐	50.000	50.450	262832.94	0.4543	P	1.0
4	☐	125.000	128.982	659040.33	1.1614	P	0.1
5	☐	250.000	259.334	1304747.31	2.3352	P	0.7
6	☐	500.000	503.186	2552383.24	4.5310	A	0.6
7	☐	1000.000	995.554	5176742.00	8.9645	A	0.2
8	☐			2293.53	0.0041	P	3.0

$$y = 0.0090 * x + 3.1986\text{E-}005$$

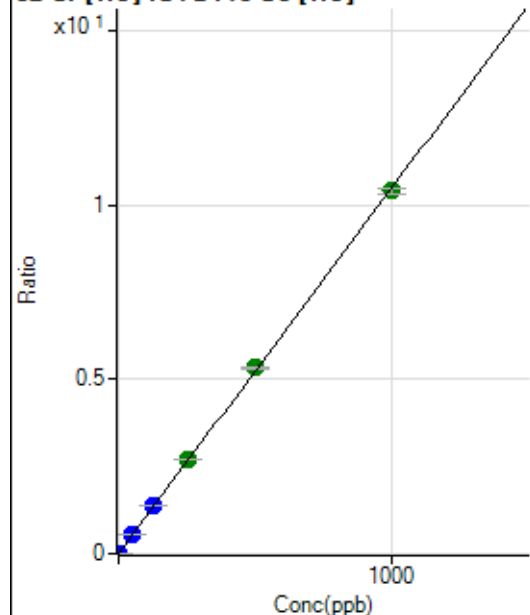
$$R = 0.9999$$

$$DL = 0.001073$$

$$BEC = 0.003552$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2858.08	0.0048	P	2.8
2	☐	2.000	2.000	15327.85	0.0258	P	1.7
3	☐	50.000	51.747	316841.37	0.5476	P	0.4
4	☐	125.000	131.547	785716.71	1.3847	P	0.4
5	☐	250.000	257.189	1510124.67	2.7026	A	1.1
6	☐	500.000	508.616	3008113.46	5.3399	A	0.6
7	☐	1000.000	992.989	6017609.35	10.4208	A	1.4
8	☐			135056.88	0.2391	P	1.1

$$y = 0.0105 * x + 0.0048$$

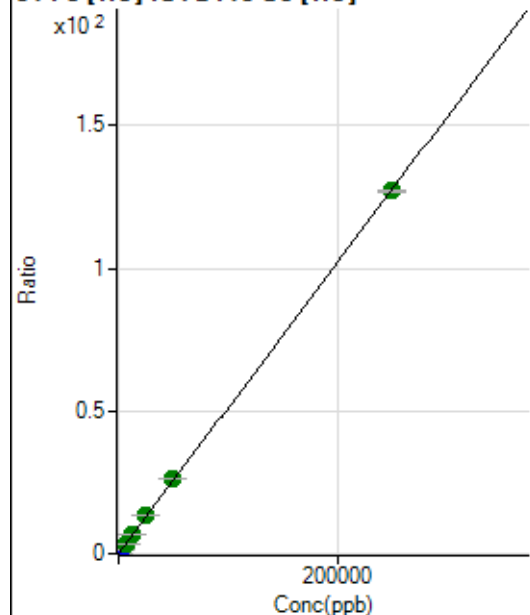
$$R = 0.9999$$

$$DL = 0.03865$$

$$BEC = 0.4614$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2304.65	0.0039	P	7.2
2	☐	50.000	53.175	18395.76	0.0310	P	1.2
3	☐	2500.000	2769.034	818265.79	1.4144	P	0.5
4	☐	6250.000	6661.272	1927538.39	3.3969	A	0.5
5	☐	12500.000	13304.114	3788686.05	6.7806	A	0.4
6	☐	25000.000	26108.607	7493883.15	13.3027	A	0.4
7	☐	50000.000	51270.059	15082943.80	26.1191	A	1.3
8	☐	250000.00	249581.94	71803598.93	127.1323	A	0.5

$$y = 5.0937E-004 * x + 0.0039$$

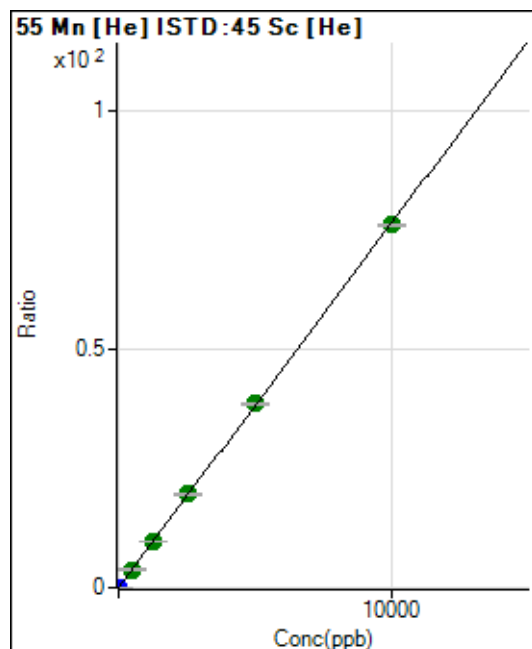
$$R = 1.0000$$

$$DL = 1.665$$

$$BEC = 7.661$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	257.78	0.0004	P	8.4
2	☐	1.000	0.971	4661.88	0.0079	P	1.9
3	☐	500.000	500.342	2210038.18	3.8203	A	2.2
4	☐	1250.000	1279.328	5542416.79	9.7675	A	0.4
5	☐	2500.000	2568.720	10957411.36	19.6115	A	1.0
6	☐	5000.000	5052.137	21728933.57	38.5712	A	1.3
7	☐	10000.000	9953.068	43880534.35	75.9876	A	0.5
8	☐			33343.57	0.0590	P	1.4

$$y = 0.0076 * x + 4.3643E-004$$

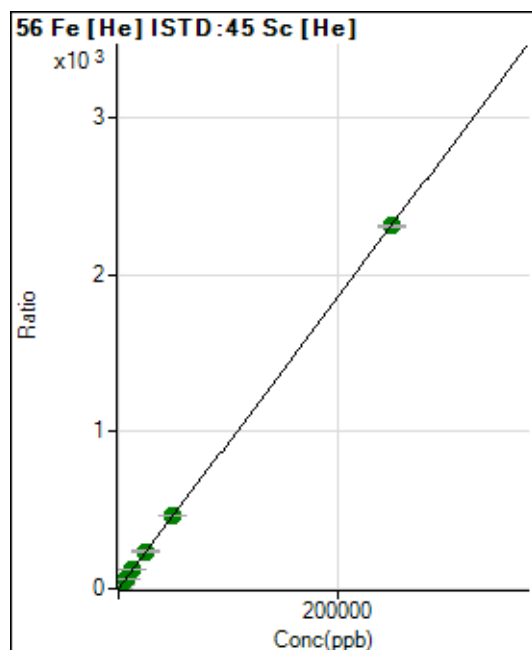
$$R = 0.9999$$

$$DL = 0.01442$$

$$BEC = 0.05717$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13162.52	0.0223	P	1.8
2	☐	50.000	52.161	299923.40	0.5052	P	0.4
3	☐	2500.000	2568.914	13772472.02	23.8066	A	1.8
4	☐	6250.000	6538.595	34363473.38	60.5600	A	0.9
5	☐	12500.000	13090.445	67728657.32	121.2205	A	0.9
6	☐	25000.000	25760.442	134372415.78	238.5260	A	1.4
7	☐	50000.000	50637.191	270744098.19	468.8480	A	0.6
8	☐	250000.00	249759.09	1306048851.6	2,312.423	A	0.2

$$y = 0.0093 * x + 0.0223$$

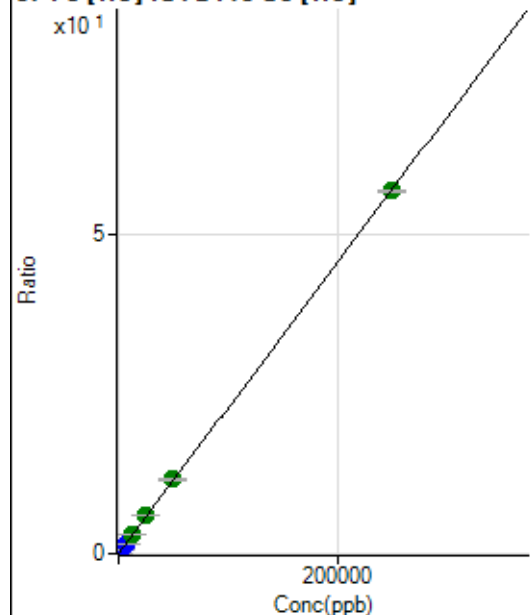
$$R = 1.0000$$

$$DL = 0.1264$$

$$BEC = 2.408$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	866.70	0.0015	P	3.5
2	☐	50.000	55.385	8366.85	0.0141	P	1.1
3	☐	2500.000	2766.617	365738.92	0.6322	P	1.0
4	☐	6250.000	7036.863	911091.95	1.6057	P	0.6
5	☐	12500.000	13397.449	1707326.89	3.0557	A	0.8
6	☐	25000.000	26053.125	3346665.96	5.9408	A	0.6
7	☐	50000.000	51168.169	6736834.28	11.6663	A	1.0
8	☐	250000.00	249593.84	32137845.35	56.9016	A	0.2

$$y = 2.2797E-004 * x + 0.0015$$

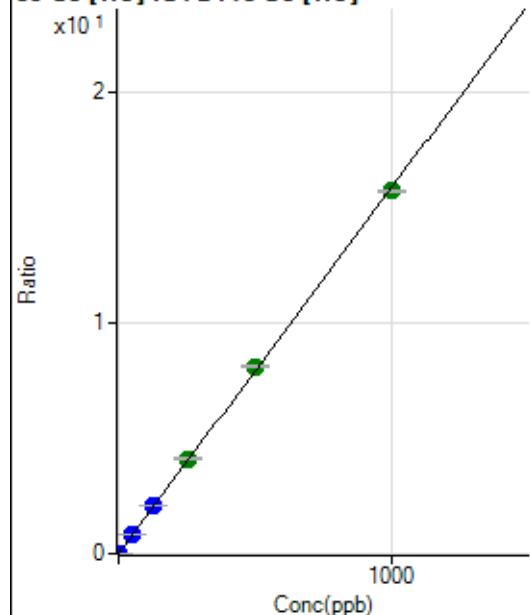
$$R = 1.0000$$

$$DL = 0.6732$$

$$BEC = 6.438$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	195.56	0.0003	P	8.2
2	☐	1.000	1.036	9934.49	0.0167	P	2.3
3	☐	50.000	52.205	478264.36	0.8266	P	1.1
4	☐	125.000	131.829	1184188.35	2.0869	P	0.2
5	☐	250.000	259.554	2295568.07	4.1086	A	1.0
6	☐	500.000	510.232	4549650.56	8.0763	A	0.9
7	☐	1000.000	991.532	9063273.41	15.6944	A	0.6
8	☐			27742.37	0.0491	P	1.1

$$y = 0.0158 * x + 3.3112E-004$$

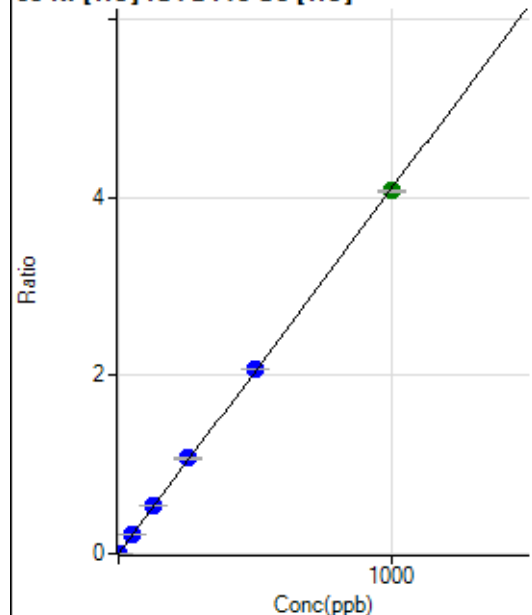
$$R = 0.9999$$

$$DL = 0.005139$$

$$BEC = 0.02092$$

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	314.45	0.0005	P	11.3
2	☐	1.000	0.953	2632.48	0.0044	P	4.9
3	☐	50.000	51.791	122953.08	0.2125	P	0.9
4	☐	125.000	130.876	304275.31	0.5362	P	0.4
5	☐	250.000	261.059	597342.80	1.0691	P	0.7
6	☐	500.000	504.341	1163229.99	2.0649	P	0.1
7	☐	1000.000	994.241	2350407.60	4.0702	A	0.6
8	☐			34719.05	0.0615	P	1.1

$$y = 0.0041 * x + 5.3254E-004$$

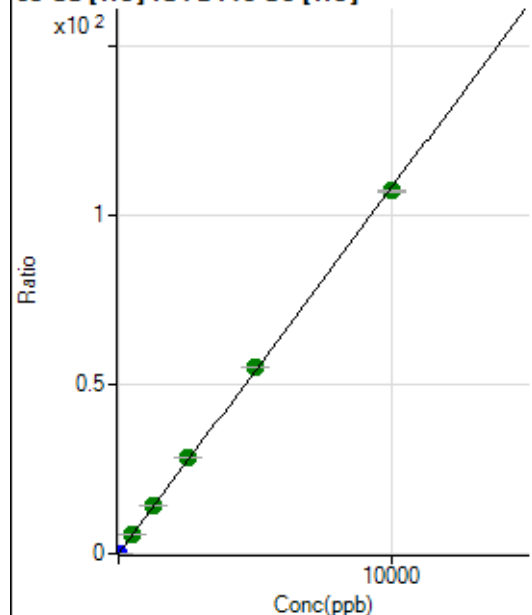
$$R = 0.9999$$

$$DL = 0.04396$$

$$BEC = 0.1301$$

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	1504.54	0.0025	P	5.5
2	☐	2.000	2.014	14442.61	0.0243	P	1.4
3	☐	500.000	514.000	3217045.37	5.5612	A	3.0
4	☐	1250.000	1303.119	7998063.08	14.0952	A	0.1
5	☐	2500.000	2628.280	15882312.82	28.4262	A	1.0
6	☐	5000.000	5095.954	31046368.15	55.1129	A	0.8
7	☐	10000.000	9912.613	61906769.63	107.2029	A	0.4
8	☐			14369.20	0.0254	P	0.8

$$y = 0.0108 * x + 0.0025$$

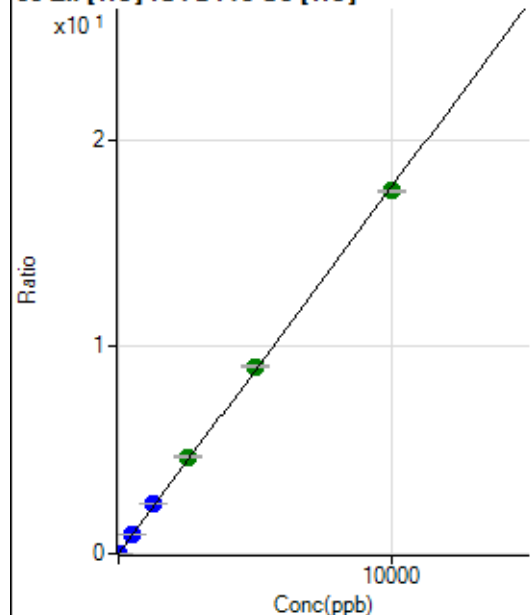
$$R = 0.9998$$

$$DL = 0.03881$$

$$BEC = 0.2356$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1814.57	0.0031	P	3.3
2	☐	5.000	4.242	6290.27	0.0106	P	1.8
3	☐	500.000	533.164	548826.42	0.9486	P	0.4
4	☐	1250.000	1354.176	1364482.22	2.4046	P	0.6
5	☐	2500.000	2641.663	2619245.86	4.6879	A	1.0
6	☐	5000.000	5111.073	5107878.99	9.0673	A	0.7
7	☐	10000.000	9894.368	10134813.18	17.5503	A	0.5
8	☐			7899.94	0.0140	P	1.6

$$y = 0.0018 * x + 0.0031$$

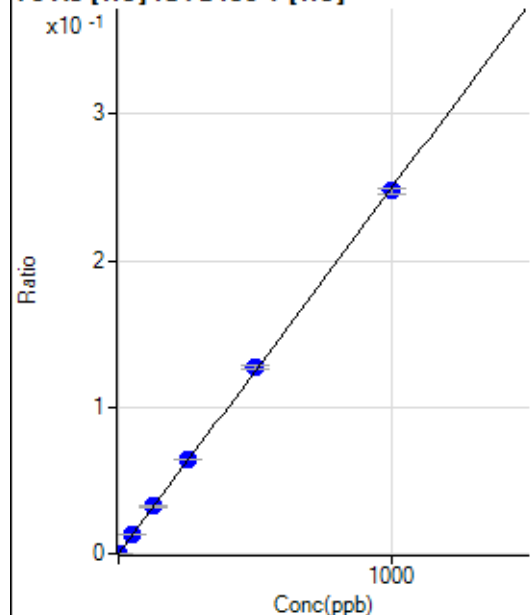
$$R = 0.9998$$

$$DL = 0.1719$$

$$BEC = 1.733$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	49.7
2	☐	1.000	1.153	744.47	0.0003	P	8.5
3	☐	50.000	50.451	31845.32	0.0126	P	0.8
4	☐	125.000	129.580	79788.30	0.0323	P	1.2
5	☐	250.000	256.494	157506.45	0.0640	P	0.9
6	☐	500.000	509.639	312413.13	0.1271	P	1.7
7	☐	1000.000	992.962	630679.55	0.2477	P	1.4
8	☐			474.46	0.0002	P	11.8

$$y = 2.4941E-004 * x + 2.6165E-006$$

$$R = 0.9999$$

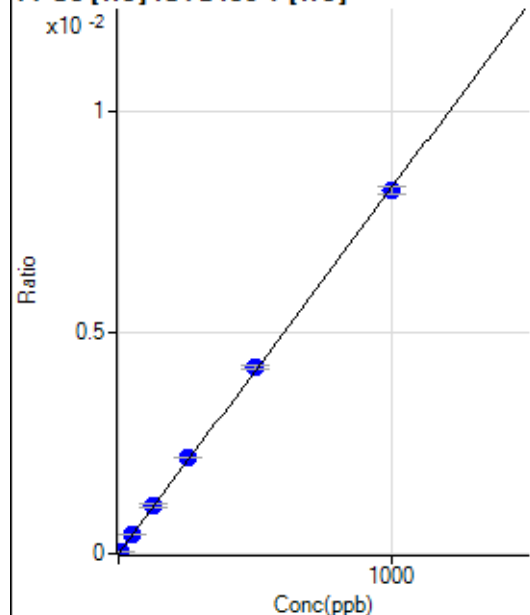
$$DL = 0.01566$$

$$BEC = 0.01049$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.195	110.00	0.0000	P	32.1
3	☐	50.000	53.144	1110.05	0.0004	P	6.8
4	☐	125.000	131.133	2671.38	0.0011	P	8.8
5	☐	250.000	262.115	5325.45	0.0022	P	1.0
6	☐	500.000	508.349	10312.57	0.0042	P	2.2
7	☐	1000.000	991.872	20843.60	0.0082	P	2.0
8	☐			8.89	0.0000	P	43.6

$$y = 8.2522\text{E-}006 * x + 0.0000\text{E}+000$$

$$R = 0.9999$$

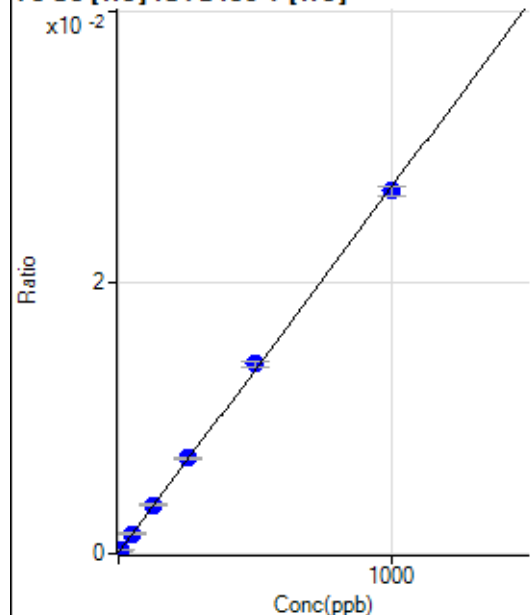
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	205.56	0.0001	P	6.3
2	☐	5.000	5.486	587.80	0.0002	P	9.4
3	☐	50.000	51.576	3729.39	0.0015	P	2.6
4	☐	125.000	129.353	8822.70	0.0036	P	4.0
5	☐	250.000	258.107	17363.59	0.0071	P	0.6
6	☐	500.000	515.747	34432.18	0.0140	P	2.9
7	☐	1000.000	989.474	68263.04	0.0268	P	2.7
8	☐			224.45	0.0001	P	8.9

$$y = 2.7011\text{E-}005 * x + 8.0825\text{E-}005$$

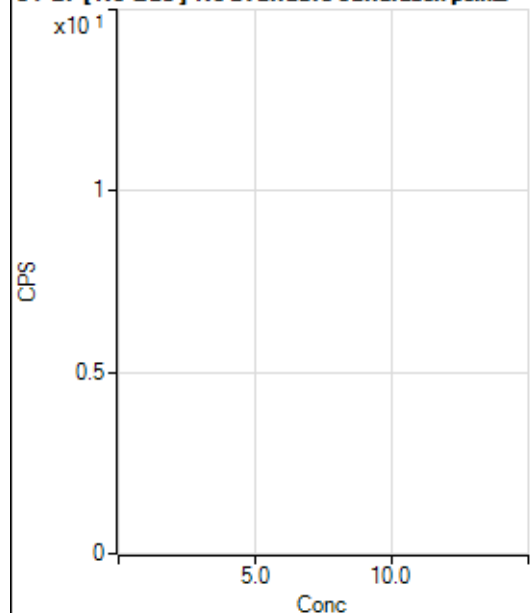
$$R = 0.9998$$

$$DL = 0.5646$$

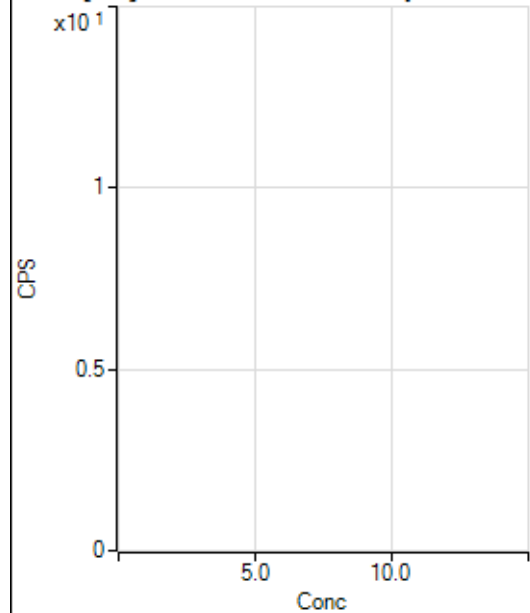
$$BEC = 2.992$$

Weight: <None>

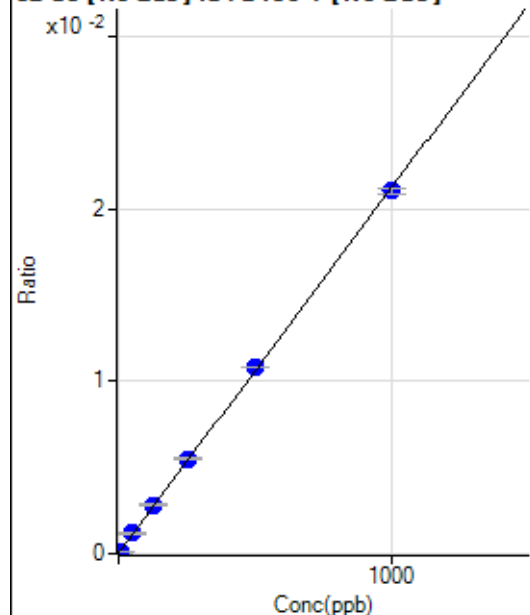
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18711.99		P	1.9
2	☐			18927.82		P	0.2
3	☐			18055.62		P	2.1
4	☐			18090.10		P	1.0
5	☐			17094.46		P	1.6
6	☐			17828.65		P	1.6
7	☐			18740.90		P	0.9
8	☐			18462.78		P	2.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			170.00		P	2.0
2	☐			222.22		P	12.6
3	☐			191.11		P	1.0
4	☐			161.11		P	18.5
5	☐			147.78		P	15.0
6	☐			190.00		P	16.7
7	☐			215.56		P	6.4
8	☐			102.22		P	24.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	324.50	0.0000	P	7.0
2	☐	5.000	5.130	1686.63	0.0001	P	4.2
3	☐	50.000	55.297	14090.09	0.0012	P	9.1
4	☐	125.000	132.657	34858.95	0.0028	P	0.7
5	☐	250.000	257.954	67995.56	0.0055	P	1.5
6	☐	500.000	510.129	133645.75	0.0108	P	0.5
7	☐	1000.000	991.725	264751.45	0.0211	P	1.3
8	☐			442.15	0.0000	P	10.1

$$y = 2.1209\text{E-}005 * x + 2.6073\text{E-}005$$

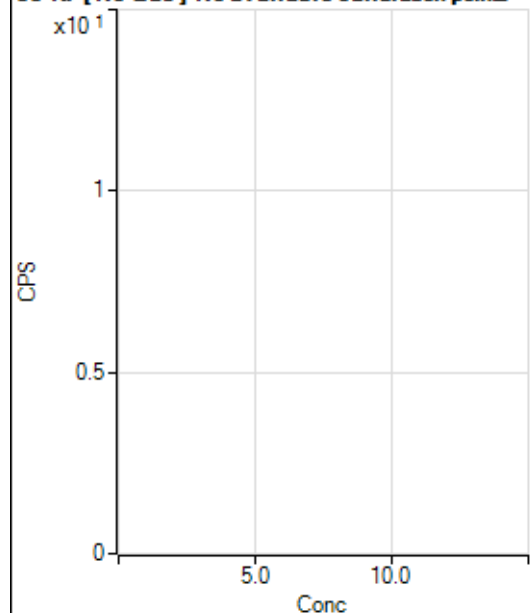
$$R = 0.9999$$

$$DL = 0.257$$

$$BEC = 1.229$$

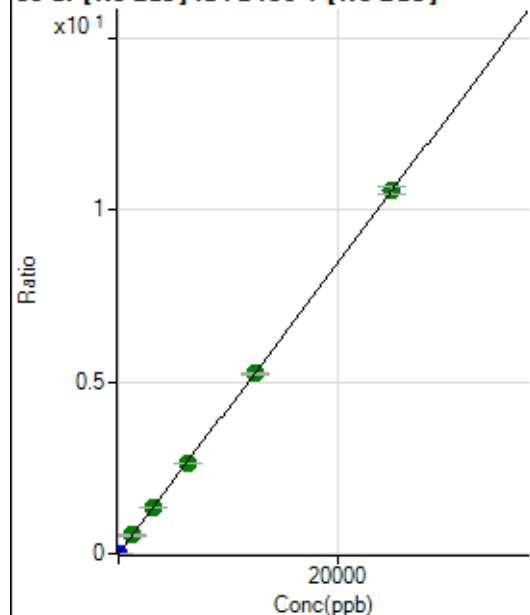
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			261.12		P	5.2
2	☐			237.78		P	30.1
3	☐			277.78		P	9.1
4	☐			257.78		P	12.0
5	☐			220.01		P	18.4
6	☐			268.89		P	12.2
7	☐			262.23		P	5.3
8	☐			242.23		P	18.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	571.13	0.0000	P	11.4
2	☐	1.000	0.957	5625.58	0.0004	P	1.7
3	☐	1250.000	1306.447	6479679.14	0.5514	A	9.3
4	☐	3125.000	3145.498	16296380.87	1.3275	A	1.0
5	☐	6250.000	6244.633	32600288.40	2.6354	A	1.8
6	☐	12500.000	12417.335	64581054.04	5.2404	A	0.6
7	☐	25000.000	25037.289	132836759.13	10.5664	A	2.1
8	☐			22519.69	0.0019	P	11.9

$$y = 4.2202\text{E-}004 * x + 4.5920\text{E-}005$$

$$R = 1.0000$$

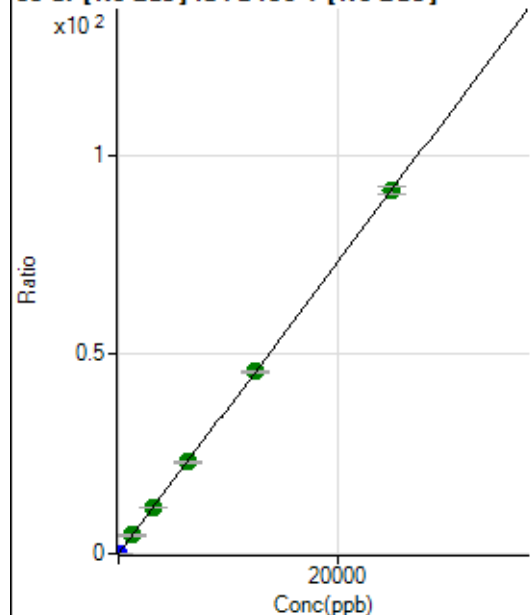
$$DL = 0.03725$$

$$BEC = 0.1088$$

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	1140.06	0.0001	P	6.3
2	☐	1.000	0.979	45760.96	0.0037	P	0.6
3	☐	1250.000	1310.686	56167338.61	4.7776	A	8.6
4	☐	3125.000	3156.332	141238870.12	11.5050	A	0.6
5	☐	6250.000	6296.622	283903462.44	22.9514	A	2.5
6	☐	12500.000	12554.305	563917631.60	45.7609	A	1.0
7	☐	25000.000	24954.241	1143496960.7	90.9590	A	2.2
8	☐			194086.29	0.0164	P	13.0

$$y = 0.0036 * x + 9.1587\text{E-}005$$

$$R = 1.0000$$

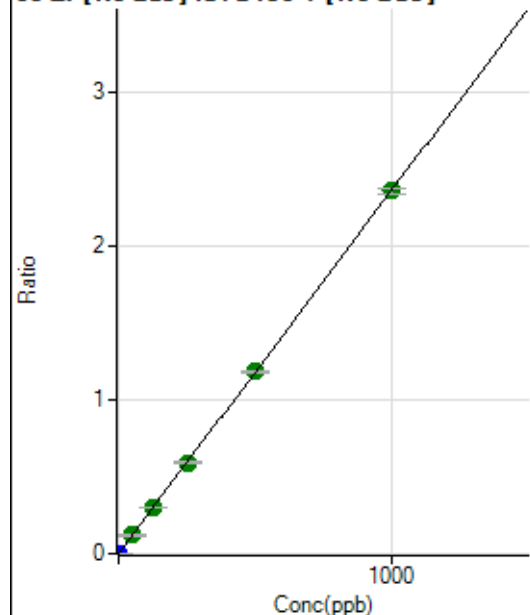
$$DL = 0.004757$$

$$BEC = 0.02513$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	901.15	0.0001	P	1.7
2	☐	1.000	0.912	27789.63	0.0022	P	1.1
3	☐	50.000	52.502	1455069.62	0.1238	A	9.2
4	☐	125.000	126.751	3668403.87	0.2988	A	0.5
5	☐	250.000	250.836	7314008.43	0.5913	A	1.3
6	☐	500.000	500.925	14551004.51	1.1807	A	0.7
7	☐	1000.000	998.985	29602122.61	2.3546	A	1.4
8	☐			14735.26	0.0012	P	4.6

$$y = 0.0024 * x + 7.2417E-005$$

$$R = 1.0000$$

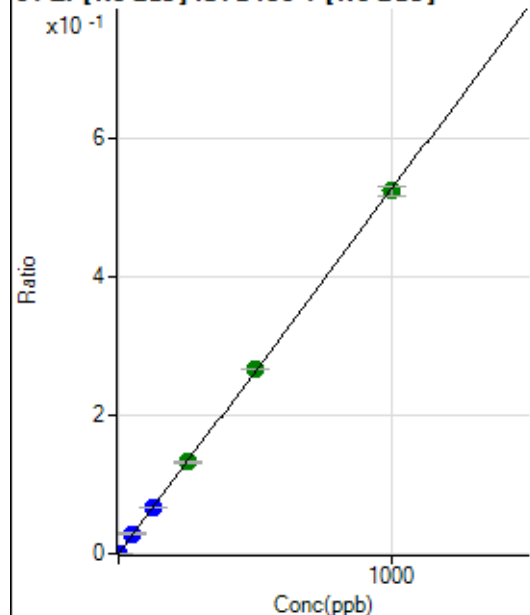
$$DL = 0.00159$$

$$BEC = 0.03072$$

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	197.78	0.0000	P	0.7
2	☐	1.000	0.898	6106.88	0.0005	P	1.2
3	☐	50.000	53.258	329573.00	0.0280	P	8.8
4	☐	125.000	128.258	828639.80	0.0675	P	0.9
5	☐	250.000	252.603	1644335.83	0.1329	A	1.7
6	☐	500.000	506.763	3286123.04	0.2667	A	0.4
7	☐	1000.000	995.398	6584583.23	0.5238	A	2.3
8	☐			3273.73	0.0003	P	5.6

$$y = 5.2616E-004 * x + 1.5893E-005$$

$$R = 1.0000$$

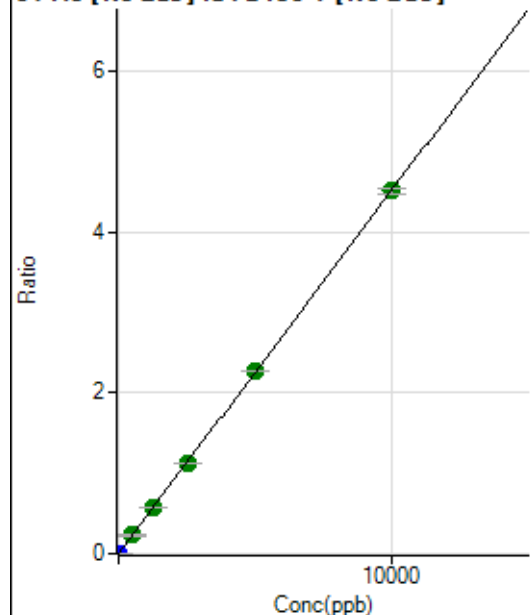
$$DL = 0.0006592$$

$$BEC = 0.0302$$

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	367.79	0.0000	P	7.6
2	☐	5.000	5.687	32468.18	0.0026	P	0.3
3	☐	500.000	526.558	2793194.12	0.2377	A	9.3
4	☐	1250.000	1257.927	6970195.45	0.5677	A	0.0
5	☐	2500.000	2488.999	13895663.54	1.1233	A	1.8
6	☐	5000.000	5013.112	27881576.81	2.2625	A	0.2
7	☐	10000.000	9993.875	56703370.82	4.5104	A	1.7
8	☐			25801.73	0.0022	P	4.9

$$y = 4.5131\text{E-}004 * x + 2.9549\text{E-}005$$

$$R = 1.0000$$

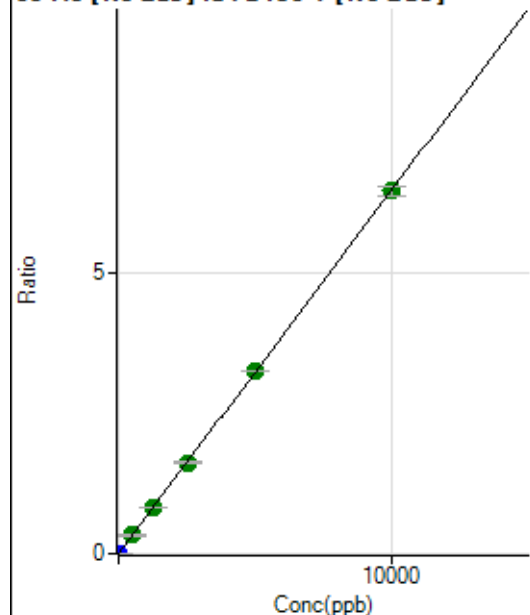
$$DL = 0.01488$$

$$BEC = 0.06547$$

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	128.89	0.0000	P	22.0
2	☐	5.000	4.901	39670.35	0.0032	P	0.2
3	☐	500.000	524.370	3977852.93	0.3383	A	8.3
4	☐	1250.000	1263.286	10005335.48	0.8150	A	0.9
5	☐	2500.000	2499.766	19949536.23	1.6128	A	2.5
6	☐	5000.000	5025.320	39953644.41	3.2422	A	0.2
7	☐	10000.000	9984.519	80979853.24	6.4416	A	2.4
8	☐			36500.01	0.0031	P	5.5

$$y = 6.4516\text{E-}004 * x + 1.0362\text{E-}005$$

$$R = 1.0000$$

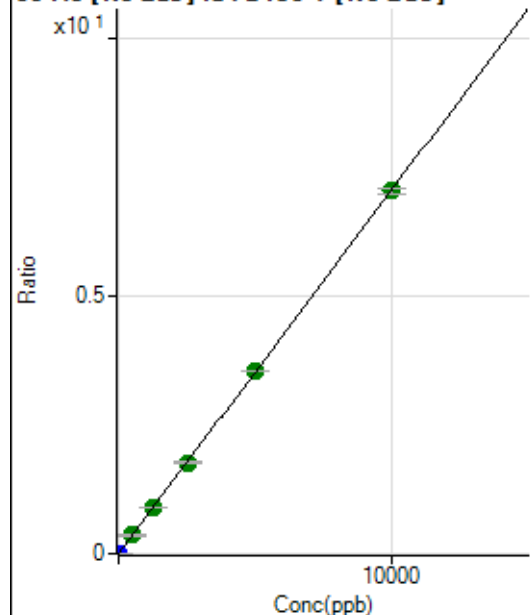
$$DL = 0.01058$$

$$BEC = 0.01606$$

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	226.67	0.0000	P	8.2
2	☐	5.000	4.904	43416.46	0.0035	P	1.1
3	☐	500.000	523.974	4335519.66	0.3690	A	9.5
4	☐	1250.000	1263.853	10925172.75	0.8900	A	0.9
5	☐	2500.000	2503.471	21805677.73	1.7628	A	2.1
6	☐	5000.000	5029.484	43642637.68	3.5415	A	0.2
7	☐	10000.000	9981.460	88361000.90	7.0284	A	1.5
8	☐			46797.99	0.0039	P	4.9

$$y = 7.0415\text{E-}004 * x + 1.8207\text{E-}005$$

$$R = 1.0000$$

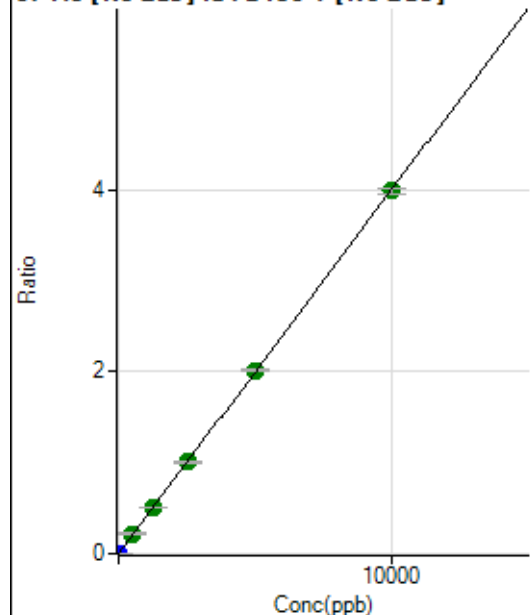
$$DL = 0.006392$$

$$BEC = 0.02586$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	93.33	0.0000	P	22.6
2	☐	5.000	4.899	24585.21	0.0020	P	2.5
3	☐	500.000	531.303	2495586.80	0.2124	A	9.6
4	☐	1250.000	1273.718	6251254.14	0.5092	A	0.5
5	☐	2500.000	2525.827	12490259.54	1.0097	A	1.6
6	☐	5000.000	5033.993	24799182.41	2.0124	A	0.9
7	☐	10000.000	9972.017	50116661.48	3.9864	A	1.4
8	☐			21687.32	0.0018	P	6.3

$$y = 3.9976\text{E-}004 * x + 7.5042\text{E-}006$$

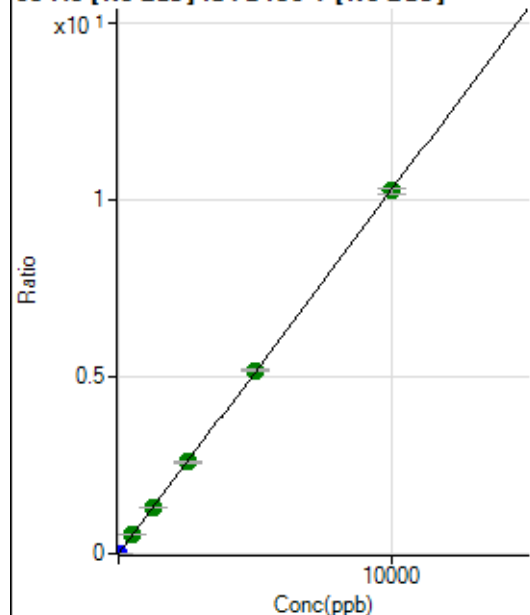
$$R = 1.0000$$

$$DL = 0.01272$$

$$BEC = 0.01877$$

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	227.78	0.0000	P	14.0
2	☐	5.000	4.914	63312.98	0.0051	P	0.7
3	☐	500.000	525.539	6341157.54	0.5394	A	8.7
4	☐	1250.000	1264.072	15927350.46	1.2974	A	0.7
5	☐	2500.000	2518.638	31976564.80	2.5851	A	1.5
6	☐	5000.000	5029.642	63613326.27	5.1623	A	1.0
7	☐	10000.000	9977.484	128740595.86	10.2406	A	1.4
8	☐			56406.36	0.0048	P	5.2

$$y = 0.0010 * x + 1.8291E-005$$

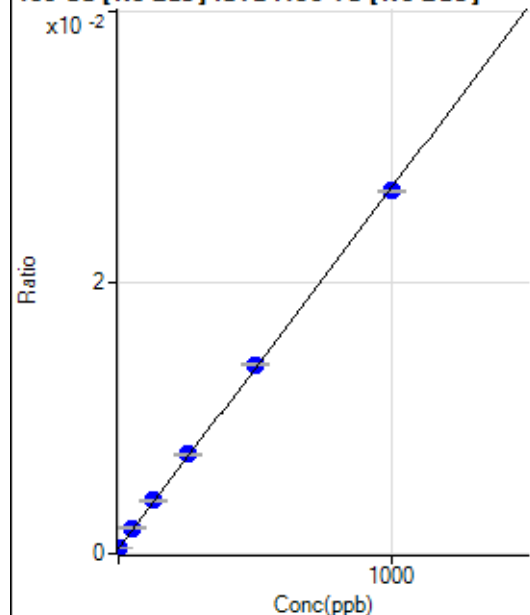
$$R = 1.0000$$

$$DL = 0.007503$$

$$BEC = 0.01782$$

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	6073.55	0.0004	P	1.1
2	☐	1.000	1.050	6518.20	0.0004	P	1.5
3	☐	50.000	55.685	28875.44	0.0019	P	7.3
4	☐	125.000	132.586	63646.35	0.0039	P	0.8
5	☐	250.000	260.562	120980.93	0.0073	P	1.0
6	☐	500.000	510.297	229251.90	0.0140	P	0.4
7	☐	1000.000	990.978	448376.02	0.0268	P	0.7
8	☐			5927.94	0.0004	P	0.9

$$y = 2.6629E-005 * x + 3.7222E-004$$

$$R = 0.9998$$

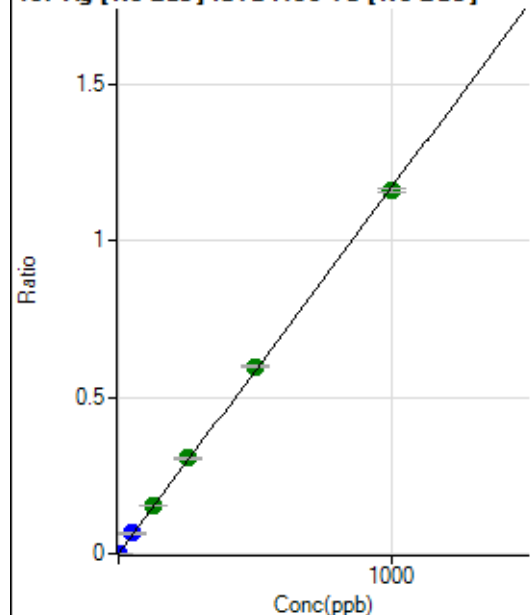
$$DL = 0.4539$$

$$BEC = 13.98$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	85.56	0.0000	P	11.6
2	☐	1.000	1.014	19387.49	0.0012	P	1.3
3	☐	50.000	56.674	1029887.21	0.0662	P	8.6
4	☐	125.000	132.488	2524384.84	0.1548	A	1.0
5	☐	250.000	260.663	5039667.39	0.3045	A	1.3
6	☐	500.000	509.927	9783005.34	0.5958	A	1.1
7	☐	1000.000	991.101	19401021.10	1.1579	A	1.2
8	☐			4706.37	0.0003	P	11.1

$$y = 0.0012 * x + 5.2451E-006$$

$$R = 0.9999$$

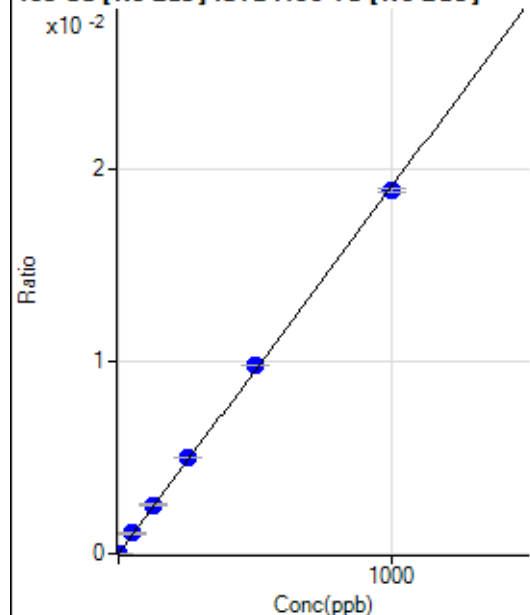
$$DL = 0.001566$$

$$BEC = 0.004489$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	23.33	0.0000	P	43.2
2	☐	1.000	1.026	342.23	0.0000	P	7.6
3	☐	50.000	55.356	16434.99	0.0011	P	9.5
4	☐	125.000	133.320	41492.51	0.0025	P	0.9
5	☐	250.000	261.187	82462.65	0.0050	P	0.6
6	☐	500.000	514.333	161110.48	0.0098	P	0.1
7	☐	1000.000	988.729	315993.15	0.0189	P	1.0
8	☐			164.45	0.0000	P	11.7

$$y = 1.9074E-005 * x + 1.4320E-006$$

$$R = 0.9998$$

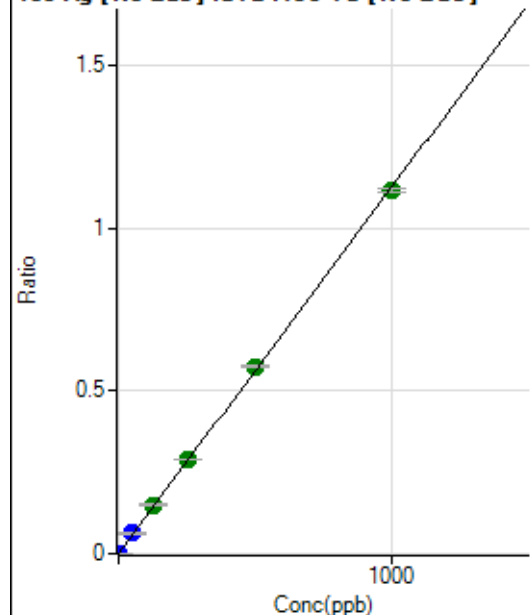
$$DL = 0.09736$$

$$BEC = 0.07508$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.11	0.0000	P	11.8
2	☐	1.000	1.005	18472.97	0.0011	P	1.0
3	☐	50.000	56.436	988385.27	0.0635	P	7.8
4	☐	125.000	133.479	2449979.98	0.1502	A	1.3
5	☐	250.000	259.494	4833265.31	0.2921	A	0.3
6	☐	500.000	511.581	9454897.64	0.5758	A	1.0
7	☐	1000.000	990.454	18677329.30	1.1148	A	1.2
8	☐			4234.00	0.0003	P	14.6

$$y = 0.0011 * x + 2.5186E-006$$

$$R = 0.9998$$

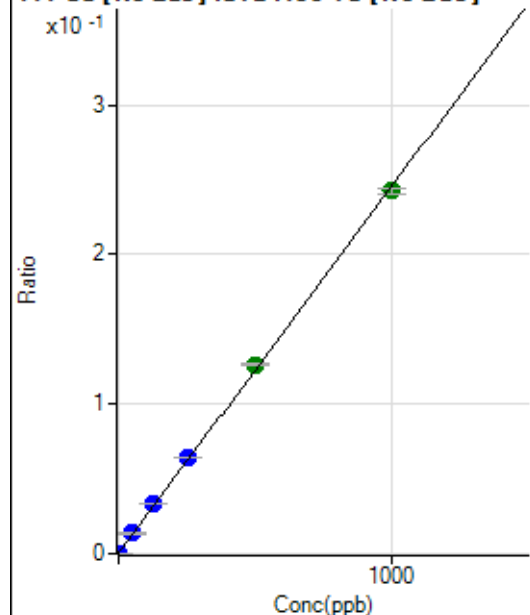
$$DL = 0.0007896$$

$$BEC = 0.002238$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4288.49	0.0003	P	0.7
2	☐	1.000	1.062	8521.61	0.0005	P	0.9
3	☐	50.000	55.892	217092.77	0.0140	P	8.9
4	☐	125.000	133.696	538664.60	0.0330	P	0.3
5	☐	250.000	261.386	1064471.85	0.0643	P	0.2
6	☐	500.000	514.487	2074781.53	0.1264	A	1.3
7	☐	1000.000	988.528	4063506.46	0.2425	A	1.6
8	☐			4944.48	0.0003	P	2.4

$$y = 2.4508E-004 * x + 2.6282E-004$$

$$R = 0.9998$$

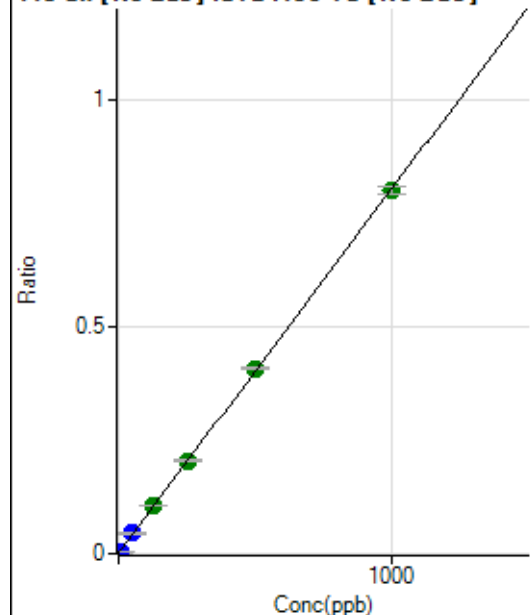
$$DL = 0.023$$

$$BEC = 1.072$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	21209.86	0.0013	P	5.2
2	☐	5.000	4.484	79684.32	0.0049	P	0.7
3	☐	50.000	53.902	691626.61	0.0445	P	8.7
4	☐	125.000	128.527	1700037.34	0.1042	A	0.8
5	☐	250.000	253.746	3384594.39	0.2045	A	1.5
6	☐	500.000	506.618	6684389.41	0.4071	A	0.8
7	☐	1000.000	995.121	13376271.47	0.7983	A	2.1
8	☐			11861.64	0.0008	P	1.9

$$y = 8.0095E-004 * x + 0.0013$$

$$R = 1.0000$$

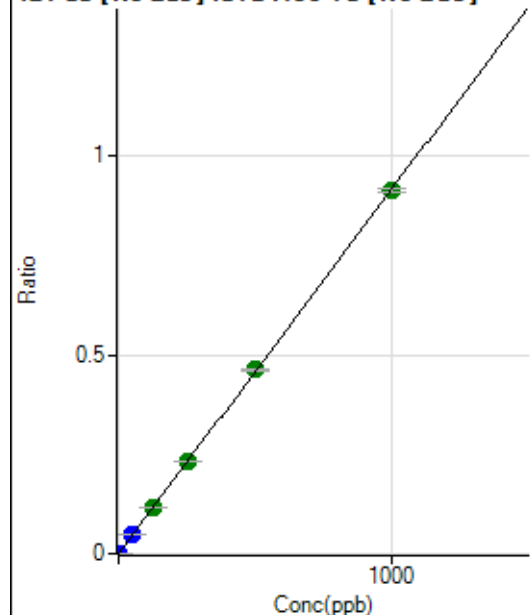
$$DL = 0.253$$

$$BEC = 1.623$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	117.78	0.0000	P	16.1
2	☐	2.000	1.922	28825.53	0.0018	P	0.8
3	☐	50.000	52.996	755719.88	0.0486	P	8.7
4	☐	125.000	127.256	1902674.21	0.1167	A	0.7
5	☐	250.000	253.112	3840351.75	0.2321	A	1.5
6	☐	500.000	504.988	7602040.65	0.4630	A	0.8
7	☐	1000.000	996.297	15303801.72	0.9134	A	0.9
8	☐			10356.05	0.0007	P	2.7

$$y = 9.1679E-004 * x + 7.2233E-006$$

$$R = 1.0000$$

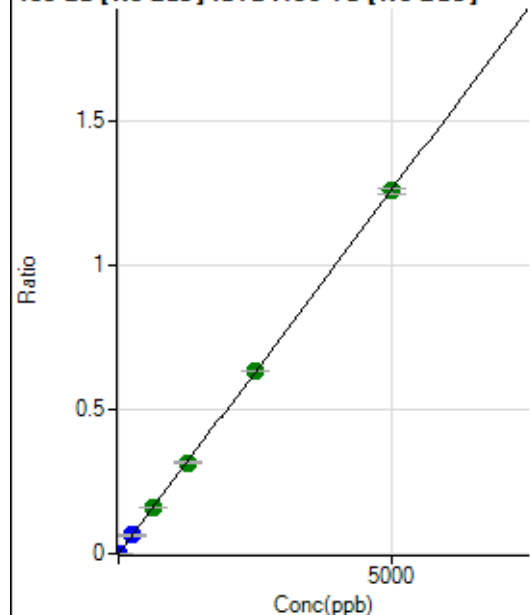
$$DL = 0.003815$$

$$BEC = 0.007879$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	185.56	0.0000	P	9.4
2	☐	10.000	9.471	38997.83	0.0024	P	1.0
3	☐	250.000	257.504	1007591.63	0.0648	P	8.8
4	☐	625.000	637.655	2616168.31	0.1604	A	1.2
5	☐	1250.000	1251.270	5209607.25	0.3148	A	1.0
6	☐	2500.000	2515.185	10390379.50	0.6328	A	0.4
7	☐	5000.000	4990.134	21033574.41	1.2554	A	1.3
8	☐			8069.03	0.0005	P	6.0

$$y = 2.5157\text{E-}004 * x + 1.1369\text{E-}005$$

$$R = 1.0000$$

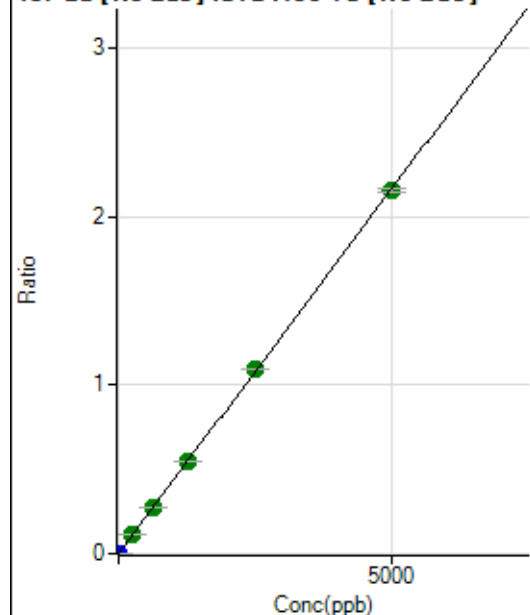
$$DL = 0.01274$$

$$BEC = 0.04519$$

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	353.34	0.0000	P	7.7
2	☐	10.000	9.609	68111.89	0.0042	P	1.1
3	☐	250.000	263.008	1770338.36	0.1139	A	9.4
4	☐	625.000	635.673	4488090.39	0.2752	A	0.5
5	☐	1250.000	1260.657	9031357.50	0.5458	A	1.1
6	☐	2500.000	2537.336	18037141.12	1.0984	A	0.6
7	☐	5000.000	4976.684	36097751.13	2.1545	A	1.1
8	☐			13993.64	0.0009	P	4.1

$$y = 4.3291\text{E-}004 * x + 2.1662\text{E-}005$$

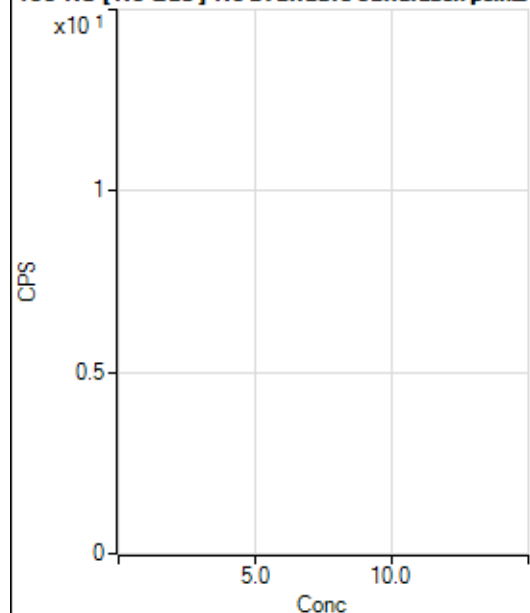
$$R = 1.0000$$

$$DL = 0.01149$$

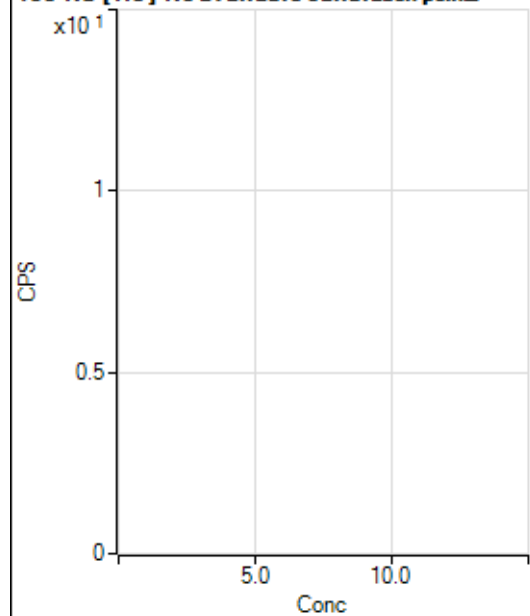
$$BEC = 0.05004$$

Weight: <None>

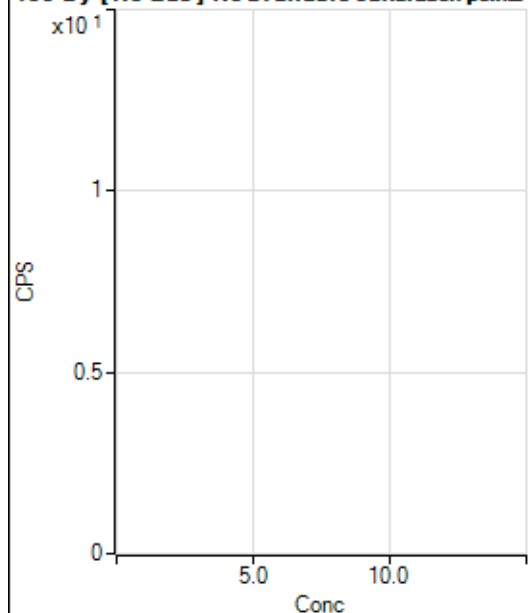
Min Conc: 0

150 Nd [No Gas] No available calibration points

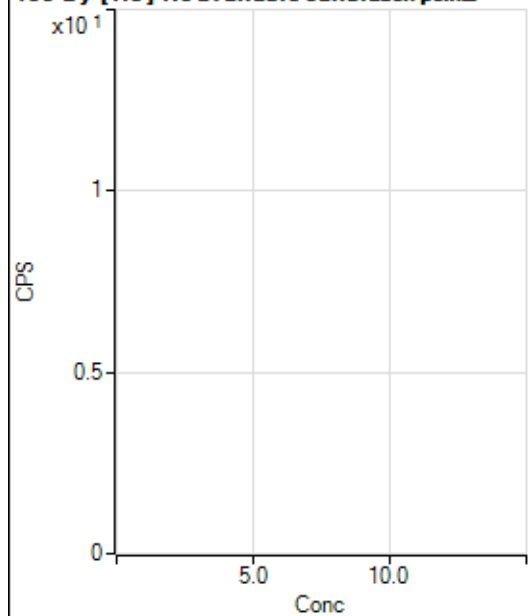
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	21.6
2	☐			15.56		P	32.7
3	☐			140.00		P	18.9
4	☐			414.46		P	8.4
5	☐			735.58		P	8.2
6	☐			1354.53		P	6.4
7	☐			2648.05		P	3.6
8	☐			387.79		P	2.0

150 Nd [He] No available calibration points

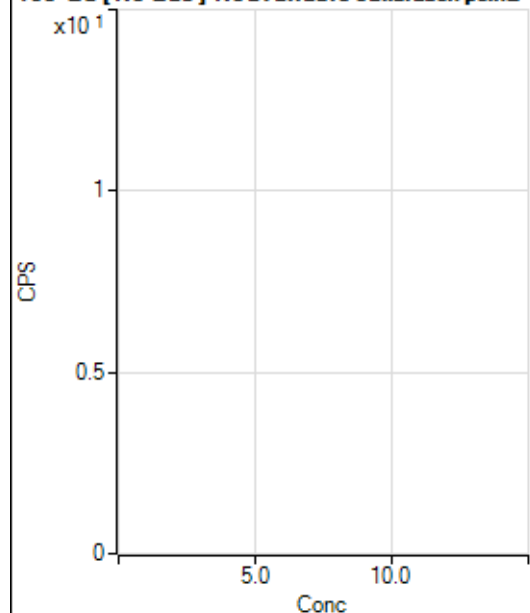
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			4.44		P	43.4
3	☐			37.78		P	41.7
4	☐			98.89		P	47.2
5	☐			151.11		P	9.2
6	☐			358.90		P	6.3
7	☐			663.36		P	7.0
8	☐			205.56		P	17.0

156 Dy [No Gas] No available calibration points

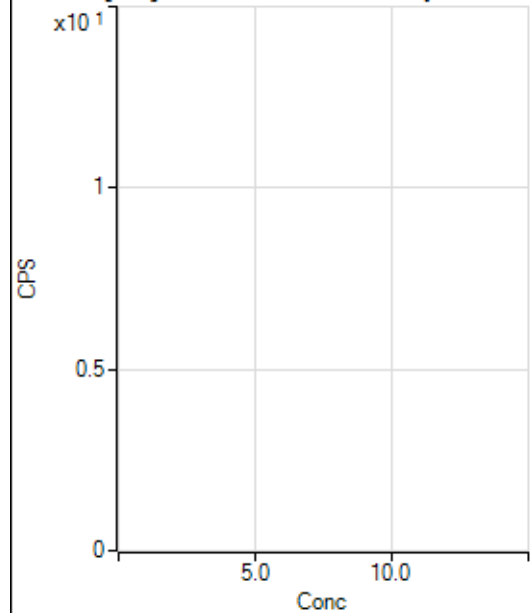
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	43.3
2	☐			13.33		P	66.2
3	☐			87.78		P	18.7
4	☐			227.78		P	4.5
5	☐			452.23		P	10.7
6	☐			827.81		P	3.1
7	☐			1590.11		P	3.0
8	☐			594.46		P	12.6

156 Dy [He] No available calibration points

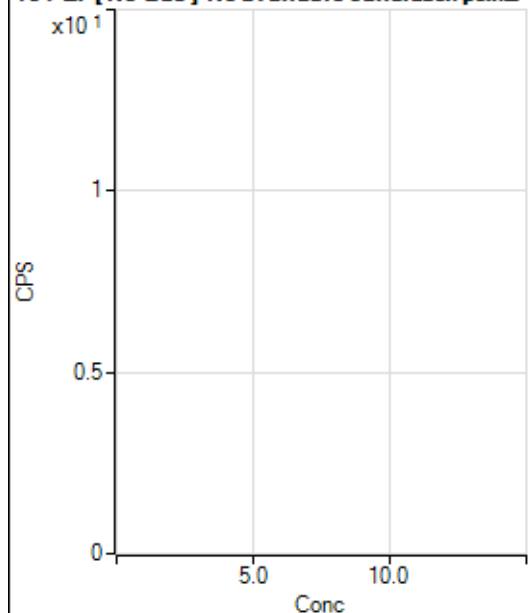
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			6.66		P	86.6
3	☐			68.89		P	7.4
4	☐			168.89		P	6.3
5	☐			378.90		P	3.1
6	☐			777.81		P	8.8
7	☐			1527.88		P	4.5
8	☐			366.68		P	17.0

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

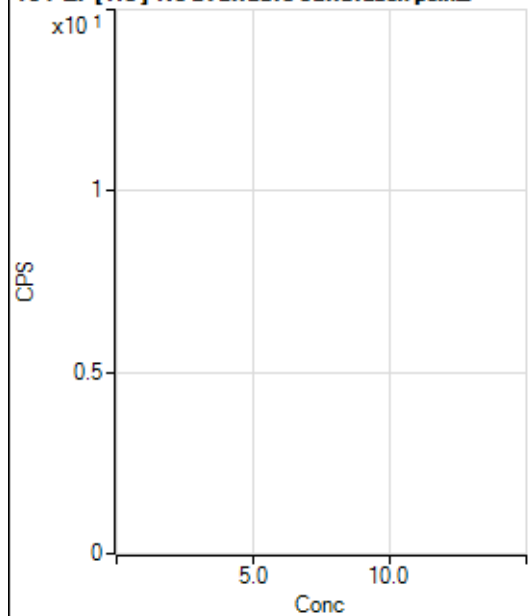
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			123.34		P	28.5
2	☐			114.45		P	17.6
3	☐			168.89		P	23.5
4	☐			302.23		P	5.4
5	☐			488.90		P	10.2
6	☐			802.26		P	2.8
7	☐			1447.87		P	10.6
8	☐			628.91		P	8.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			541.13		P	5.7
2	☐			512.24		P	2.1
3	☐			573.35		P	8.0
4	☐			622.24		P	0.3
5	☐			728.92		P	1.9
6	☐			913.37		P	8.8
7	☐			1334.52		P	5.2
8	☐			805.59		P	4.3

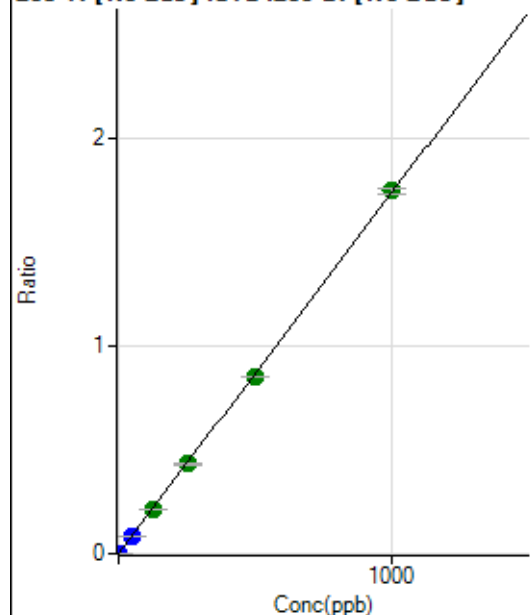
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			118.89		P	18.2
2	☐			113.34		P	11.8
3	☐			146.67		P	22.4
4	☐			187.78		P	16.5
5	☐			274.45		P	10.5
6	☐			410.01		P	11.4
7	☐			775.58		P	9.2
8	☐			655.58		P	10.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			50.00		P	17.6
2	☐			81.11		P	12.6
3	☐			78.89		P	17.6
4	☐			87.78		P	24.4
5	☐			188.89		P	16.4
6	☐			245.56		P	8.3
7	☐			452.24		P	14.4
8	☐			387.79		P	4.1

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	337.79	0.0000	P	10.7
2	☐	1.000	0.851	14986.10	0.0015	P	0.7
3	☐	50.000	47.768	778888.10	0.0830	P	9.1
4	☐	125.000	122.701	2097035.07	0.2133	A	0.5
5	☐	250.000	249.653	4266903.31	0.4339	A	2.0
6	☐	500.000	490.234	8266043.77	0.8519	A	0.4
7	☐	1000.000	1005.369	16497042.25	1.7471	A	1.5
8	☐			4823.13	0.0006	P	5.3

$$y = 0.0017 * x + 3.4261E-005$$

$$R = 0.9999$$

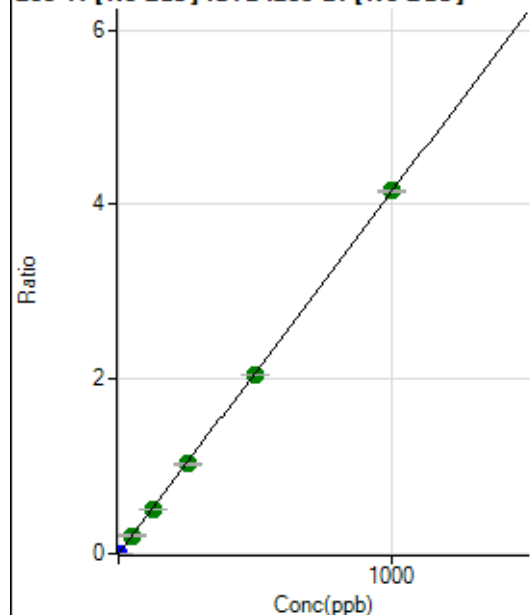
$$DL = 0.006345$$

$$BEC = 0.01972$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	846.70	0.0001	P	7.7
2	☐	1.000	0.878	36876.56	0.0037	P	1.5
3	☐	50.000	50.276	1953330.44	0.2083	A	9.8
4	☐	125.000	123.077	5013742.12	0.5099	A	0.4
5	☐	250.000	248.466	10122298.67	1.0292	A	1.4
6	☐	500.000	494.763	19885030.40	2.0494	A	0.6
7	☐	1000.000	1003.229	39239033.86	4.1555	A	0.4
8	☐			11677.37	0.0015	P	7.1

$$y = 0.0041 * x + 8.5795E-005$$

$$R = 1.0000$$

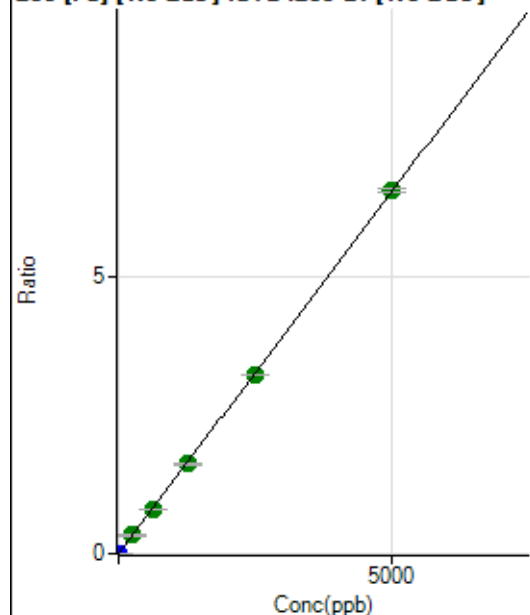
$$DL = 0.004798$$

$$BEC = 0.02071$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	942.26	0.0001	P	9.1
2	☐	1.000	0.929	12930.65	0.0013	P	2.4
3	☐	250.000	254.403	3107524.19	0.3314	A	9.9
4	☐	625.000	613.030	7852571.83	0.7986	A	0.3
5	☐	1250.000	1237.371	15850767.82	1.6117	A	2.0
6	☐	2500.000	2474.354	31271577.03	3.2229	A	0.5
7	☐	5000.000	5017.256	61707515.75	6.5349	A	0.9
8	☐			16391.14	0.0021	P	8.0

$$y = 0.0013 * x + 9.5481E-005$$

$$R = 1.0000$$

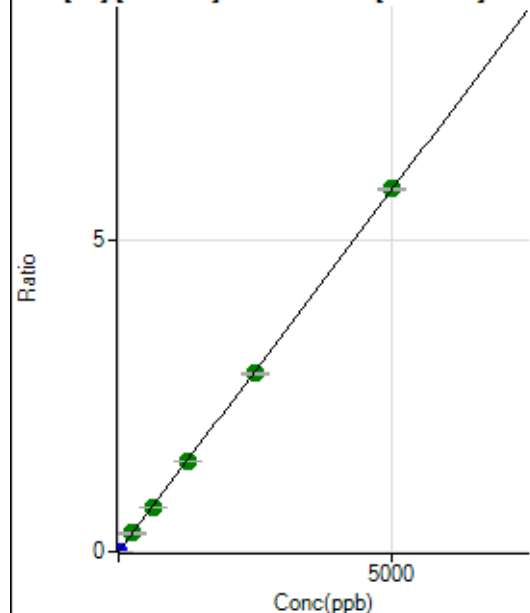
$$DL = 0.01992$$

$$BEC = 0.07331$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	870.04	0.0001	P	6.1
2	☐	1.000	0.921	11448.24	0.0012	P	1.0
3	☐	250.000	255.693	2781378.71	0.2966	A	9.6
4	☐	625.000	617.000	7036268.78	0.7156	A	1.6
5	☐	1250.000	1247.923	14233837.56	1.4473	A	1.7
6	☐	2500.000	2466.914	27758693.48	2.8609	A	1.2
7	☐	5000.000	5017.778	54948455.85	5.8191	A	0.8
8	☐			14309.87	0.0018	P	7.3

$$y = 0.0012 * x + 8.8205E-005$$

$$R = 1.0000$$

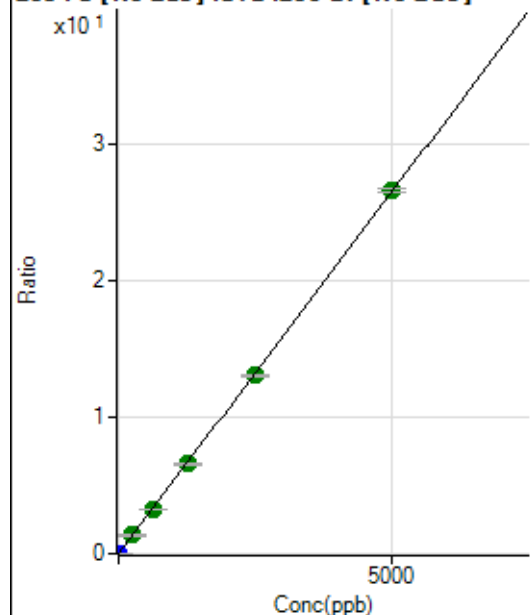
$$DL = 0.01396$$

$$BEC = 0.07606$$

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	3923.60	0.0004	P	2.1
2	☐	1.000	0.923	52256.47	0.0053	P	0.7
3	☐	250.000	254.883	12640826.41	1.3479	A	9.4
4	☐	625.000	613.536	31899707.16	3.2441	A	0.5
5	☐	1250.000	1239.881	64472953.20	6.5555	A	1.3
6	☐	2500.000	2469.362	126674271.17	13.0555	A	0.9
7	☐	5000.000	5019.038	250564842.93	26.5353	A	1.2
8	☐			65686.16	0.0082	P	7.1

$$y = 0.0053 * x + 3.9764E-004$$

$$R = 1.0000$$

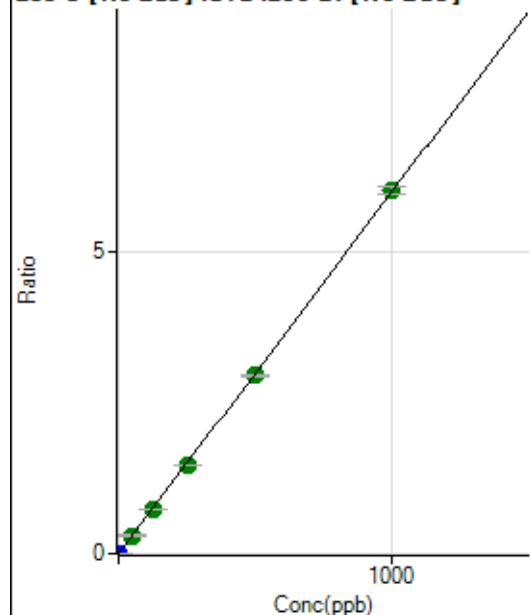
$$DL = 0.004806$$

$$BEC = 0.07521$$

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	128.89	0.0000	P	6.1
2	☐	1.000	0.808	48081.95	0.0049	P	0.4
3	☐	50.000	49.885	2801510.52	0.2988	A	10.0
4	☐	125.000	121.260	7143039.41	0.7264	A	0.7
5	☐	250.000	244.888	14427113.68	1.4669	A	2.1
6	☐	500.000	493.823	28701755.13	2.9581	A	1.1
7	☐	1000.000	1004.840	56836525.27	6.0192	A	2.1
8	☐			10129.52	0.0013	P	12.4

$$y = 0.0060 * x + 1.3069E-005$$

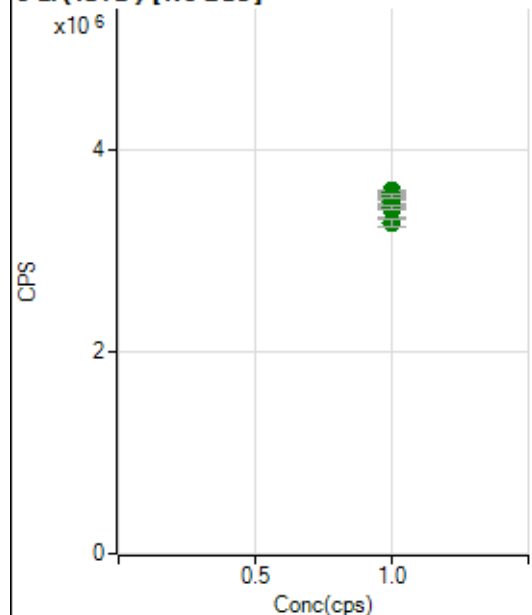
$$R = 1.0000$$

$$DL = 0.0004017$$

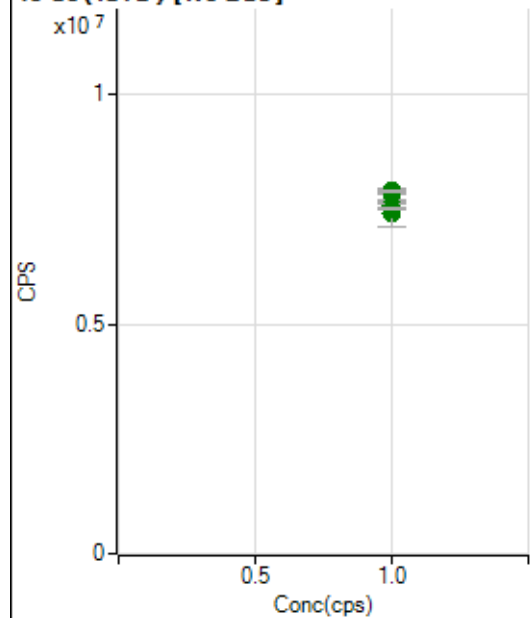
$$BEC = 0.002182$$

Weight: <None>

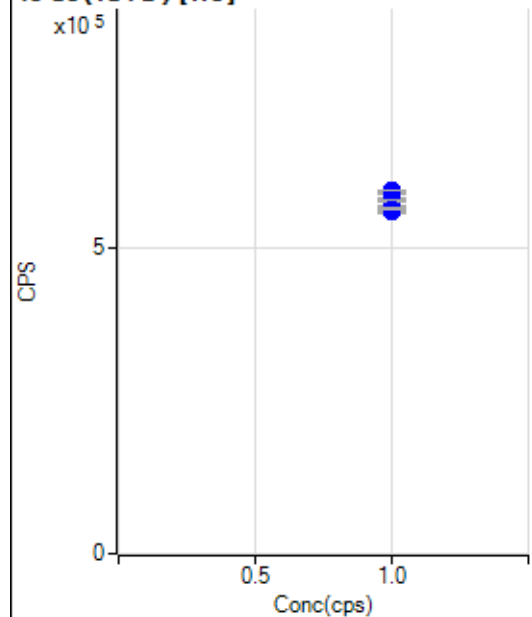
Min Conc: 0

6 Li (ISTD) [No Gas]

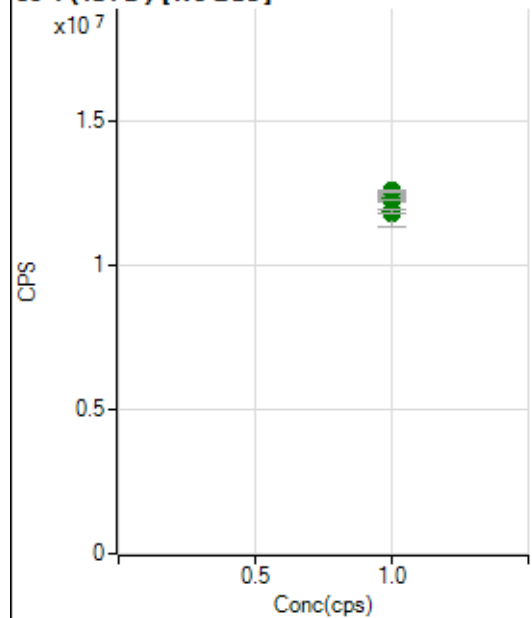
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		3586879.29		A	0.5
2	☐	1.000		3568872.62		A	1.8
3	☐	1.000		3438426.09		A	6.0
4	☐	1.000		3479078.59		A	1.4
5	☐	1.000		3537484.18		A	1.5
6	☐	1.000		3408069.81		A	0.6
7	☐	1.000		3420280.19		A	1.4
8	☐	1.000		3267909.26		A	2.4

45 Sc (ISTD) [No Gas]

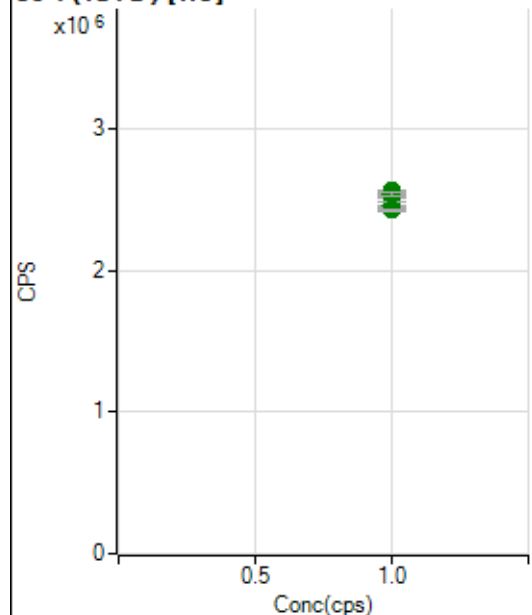
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7855827.73		A	0.3
2	☐	1.000		7904040.58		A	1.0
3	☐	1.000		7412667.88		A	8.2
4	☐	1.000		7654516.83		A	0.9
5	☐	1.000		7694727.73		A	0.7
6	☐	1.000		7572712.39		A	1.0
7	☐	1.000		7899504.81		A	0.3
8	☐	1.000		7518403.36		A	1.0

45 Sc (ISTD) [He]

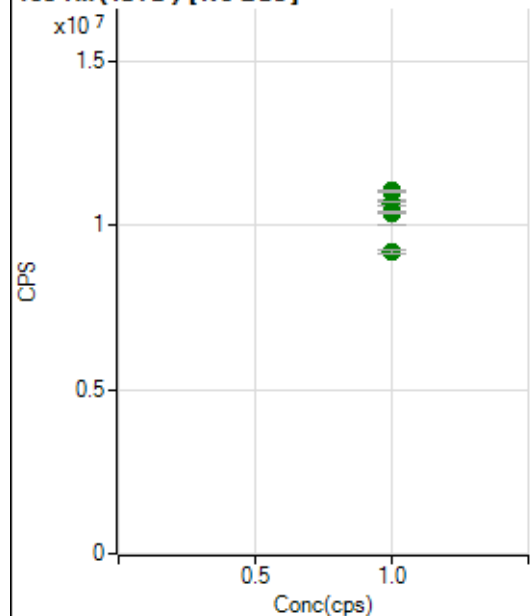
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		590527.88		P	0.4
2	☐	1.000		593646.78		P	0.1
3	☐	1.000		578554.78		P	0.7
4	☐	1.000		567433.99		P	0.5
5	☐	1.000		558754.58		P	0.9
6	☐	1.000		563329.88		P	0.4
7	☐	1.000		577476.84		P	0.4
8	☐	1.000		564795.52		P	0.2

89 Y (ISTD) [No Gas]

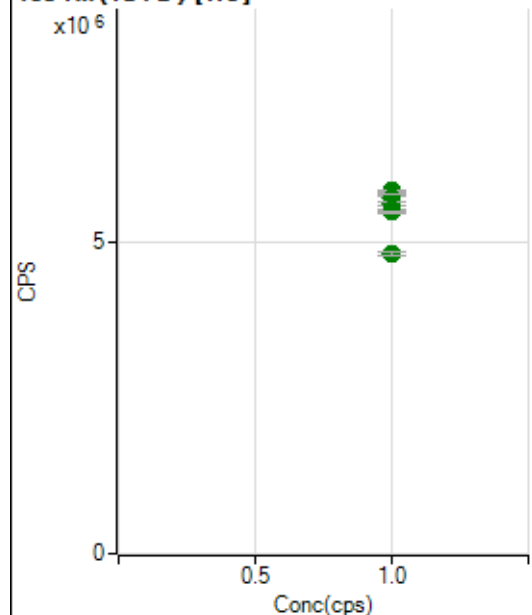
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12444810.79		A	0.8
2	☐	1.000		12506302.03		A	0.6
3	☐	1.000		11814037.32		A	8.6
4	☐	1.000		12276943.57		A	1.4
5	☐	1.000		12370196.48		A	0.6
6	☐	1.000		12323279.40		A	0.8
7	☐	1.000		12572276.06		A	0.6
8	☐	1.000		11862557.60		A	0.8

89 Y (ISTD) [He]

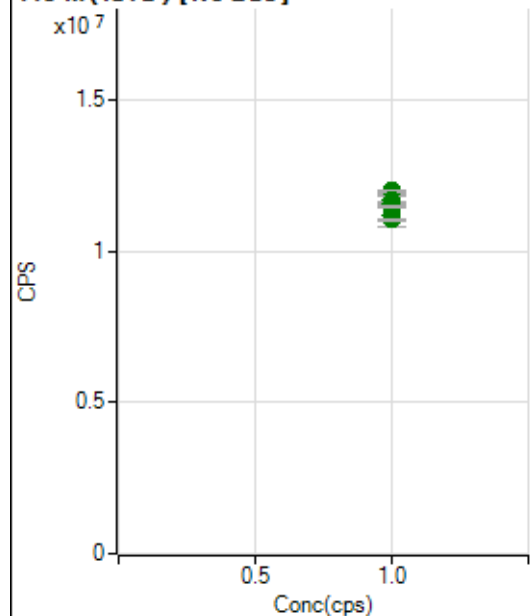
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2543894.46		A	0.6
2	☐	1.000		2566450.99		A	0.3
3	☐	1.000		2530499.63		A	1.6
4	☐	1.000		2468791.13		A	1.2
5	☐	1.000		2462036.68		A	0.5
6	☐	1.000		2458417.64		A	2.2
7	☐	1.000		2546877.72		A	1.2
8	☐	1.000		2428976.25		A	0.4

103 Rh (ISTD) [No Gas]

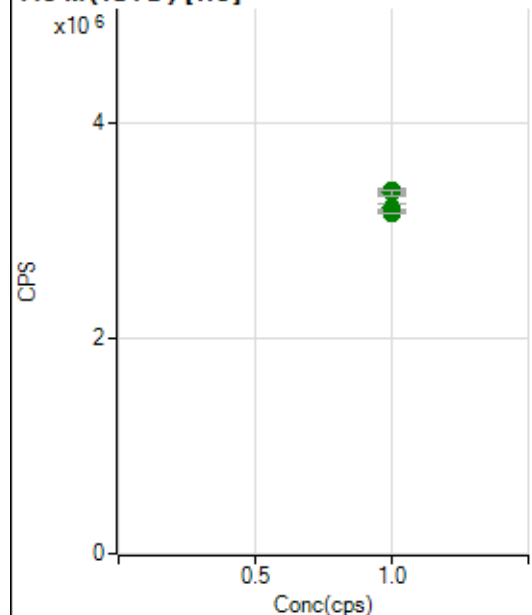
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11048068.86		A	0.5
2	☐	1.000		11061572.61		A	0.6
3	☐	1.000		10412337.62		A	7.6
4	☐	1.000		10686443.03		A	1.3
5	☐	1.000		10669804.49		A	0.7
6	☐	1.000		10430490.68		A	0.5
7	☐	1.000		10380774.08		A	0.5
8	☐	1.000		9201679.72		A	0.7

103 Rh (ISTD) [He]

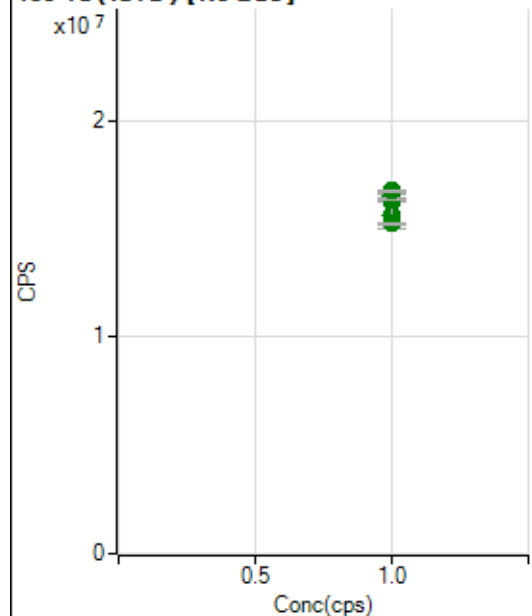
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		5782276.44		A	0.7
2	☐	1.000		5840221.65		A	0.6
3	☐	1.000		5732512.83		A	2.3
4	☐	1.000		5626160.82		A	1.0
5	☐	1.000		5528850.40		A	0.5
6	☐	1.000		5497520.96		A	0.6
7	☐	1.000		5498129.22		A	0.3
8	☐	1.000		4832425.14		A	0.8

115 In (ISTD) [No Gas]

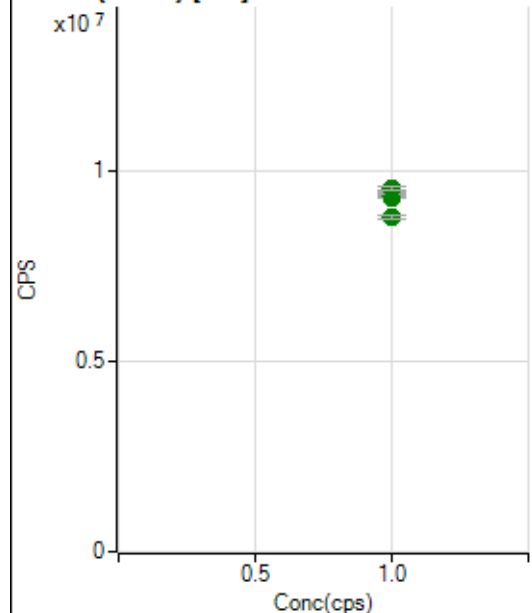
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		11908747.55		A	0.4
2	☐	1.000		11999418.20		A	0.6
3	☐	1.000		11210159.89		A	7.7
4	☐	1.000		11721404.52		A	1.5
5	☐	1.000		11619502.62		A	0.3
6	☐	1.000		11567890.24		A	1.1
7	☐	1.000		11494079.61		A	0.3
8	☐	1.000		11037417.94		A	0.4

115 In (ISTD) [He]

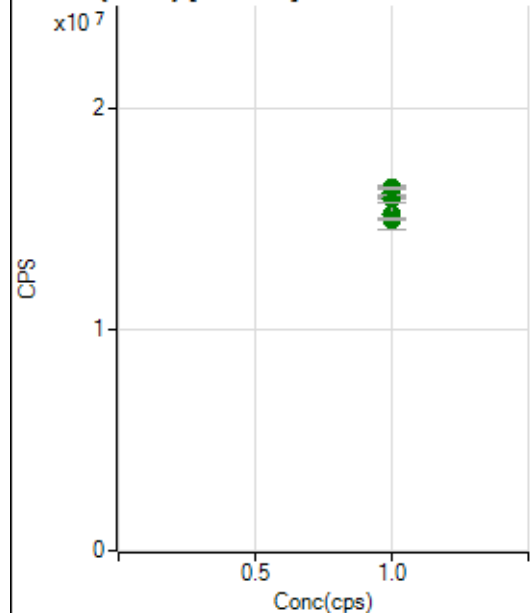
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3360220.37		A	0.8
2	☐	1.000		3370856.71		A	1.2
3	☐	1.000		3354231.53		A	1.3
4	☐	1.000		3219666.25		A	1.9
5	☐	1.000		3195021.38		A	0.4
6	☐	1.000		3198389.49		A	0.3
7	☐	1.000		3177183.82		A	0.7
8	☐	1.000		3163880.58		A	0.4

159 Tb (ISTD) [No Gas]

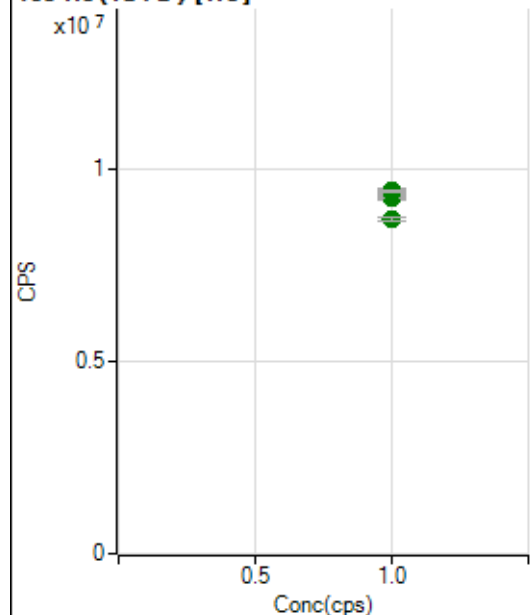
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		16316530.59		A	0.6
2	☐	1.000		16289516.84		A	0.7
3	☐	1.000		15628485.05		A	8.5
4	☐	1.000		16308437.67		A	1.2
5	☐	1.000		16548445.31		A	1.2
6	☐	1.000		16420386.01		A	0.6
7	☐	1.000		16754660.58		A	0.4
8	☐	1.000		15244082.13		A	0.8

159 Tb (ISTD) [He]

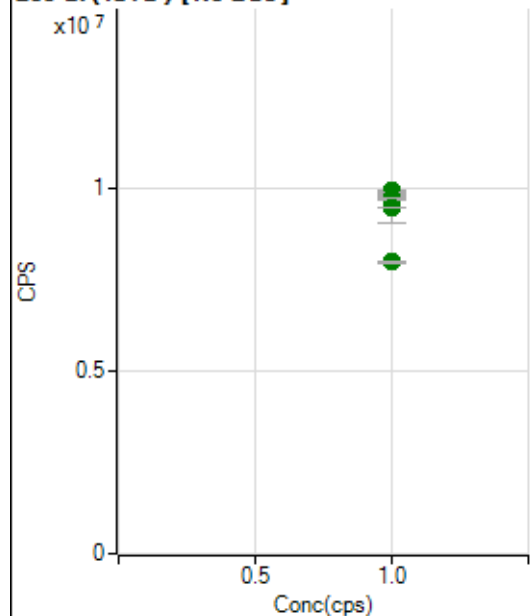
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9355677.64		A	0.6
2	☐	1.000		9413141.60		A	0.9
3	☐	1.000		9421390.90		A	1.2
4	☐	1.000		9370955.90		A	1.2
5	☐	1.000		9299478.05		A	0.2
6	☐	1.000		9411301.53		A	0.2
7	☐	1.000		9540743.82		A	1.1
8	☐	1.000		8799477.92		A	1.4

165 Ho (ISTD) [No Gas]

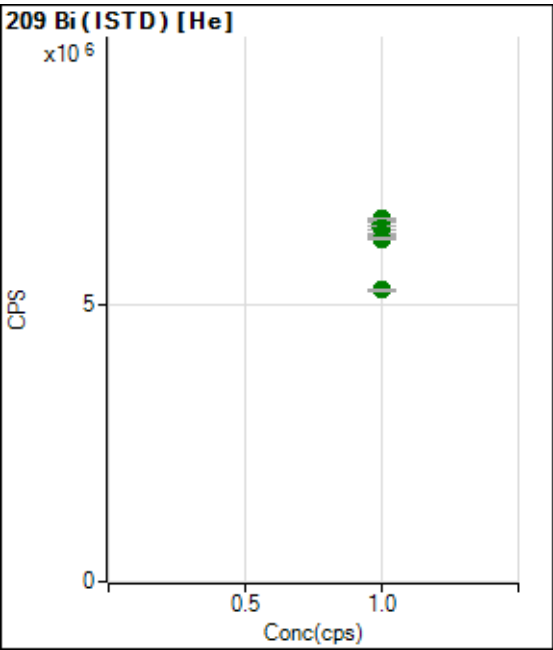
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		15920839.21		A	0.7
2	☐	1.000		15921849.49		A	0.3
3	☐	1.000		15158541.44		A	9.1
4	☐	1.000		15867748.65		A	1.9
5	☐	1.000		16371539.20		A	1.1
6	☐	1.000		16170729.62		A	1.3
7	☐	1.000		16360444.62		A	0.9
8	☐	1.000		14963094.78		A	0.8

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9245491.32		A	1.2
2	☐	1.000		9330957.09		A	1.4
3	☐	1.000		9321006.18		A	3.0
4	☐	1.000		9250822.64		A	1.1
5	☐	1.000		9253294.52		A	0.4
6	☐	1.000		9368117.36		A	0.5
7	☐	1.000		9412438.75		A	0.4
8	☐	1.000		8683240.77		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		9865796.73		A	1.1
2	☐	1.000		9905110.55		A	0.8
3	☐	1.000		9430617.70		A	8.9
4	☐	1.000		9833572.70		A	1.0
5	☐	1.000		9835431.93		A	0.8
6	☐	1.000		9702845.62		A	0.5
7	☐	1.000		9442772.01		A	0.2
8	☐	1.000		7966923.63		A	0.5



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6512608.93		A	0.5
2	☐	1.000		6466787.75		A	0.7
3	☐	1.000		6558388.31		A	0.6
4	☐	1.000		6398517.54		A	0.8
5	☐	1.000		6279535.32		A	0.6
6	☐	1.000		6281623.24		A	0.4
7	☐	1.000		6190029.84		A	0.6
8	☐	1.000		5267114.82		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7040424 MS.b

Acq. Date-Time 2024-04-04 10:13:21

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		23553	235532.26			0.853	5.000
24		141898	1418979.81			0.537	5.000
25		19451	194511.11			0.209	5.000
26		22853	228532.25			0.170	5.000
59		167090	1670902.42			0.450	5.000
113		21615	216146.61			0.349	5.000
115		257383	2573834.39			0.134	5.000
206		57590	575896.41			0.584	5.000
207		53729	537286.02			0.882	5.000
208		134123	1341227.13			0.675	5.000
220		0	2.90			25.573	

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

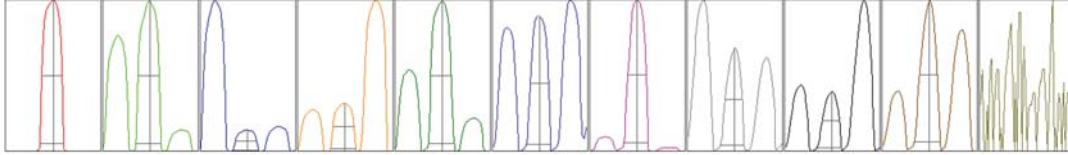
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	23780	23763	23423	23434	23367
24	141755	141699	140939	143047	142050
25	19412	19436	19419	19488	19500
26	22820	22857	22857	22819	22914
59	168287	167306	166832	166356	166671
113	21696	21570	21536	21696	21576
115	257736	257011	257737	257342	257091
206	57573	57355	57173	57926	57922
207	53480	53310	53367	54222	54265
208	134979	133605	132806	134432	134792

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	38700.29	9.05	8.90 - 9.10	
24	224735.23	24.00	23.90 - 24.10	
25	30927.82	25.00	24.90 - 25.10	
26	35772.00	26.00	25.90 - 26.10	
59	273941.80	59.00	58.90 - 59.10	
113	38642.68	113.00	112.90 - 113.10	
115	460086.38	115.00	114.90 - 115.10	
206	110726.34	206.00	205.90 - 206.10	
207	100275.01	207.00	206.90 - 207.10	
208	250293.42	208.00	207.90 - 208.10	
220	0.00	219.85	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.742	0.900	
24	0.67	0.791	0.900	
25	0.66	0.791	0.900	
26	0.66	0.792	0.900	
59	0.63	0.816	0.900	
113	0.56	0.768	0.900	
115	0.57	0.770	0.900	
206	0.54	0.749	0.900	
207	0.54	0.762	0.900	
208	0.55	0.818	0.900	
220	0.30	0.300		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.0 V	Deflect	14.2 V
Extract 2	-155.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-85 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2306 V	Pulse HV	1343 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		48160	481598.12			0.381	
89		45348	453476.18			0.286	
205		53809	538087.57			0.745	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	48302	48326	48184	48118	47869
89	45325	45416	45427	45440	45130
205	54135	54123	53831	53808	53148

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.6 V	Deflect	2.8 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	134	Axis Gain	0.9973	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.17		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.9 mm
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EM

Discriminator	4.6 mV	Analog HV	2306 V	Pulse HV	1343 V
---------------	--------	-----------	--------	----------	--------