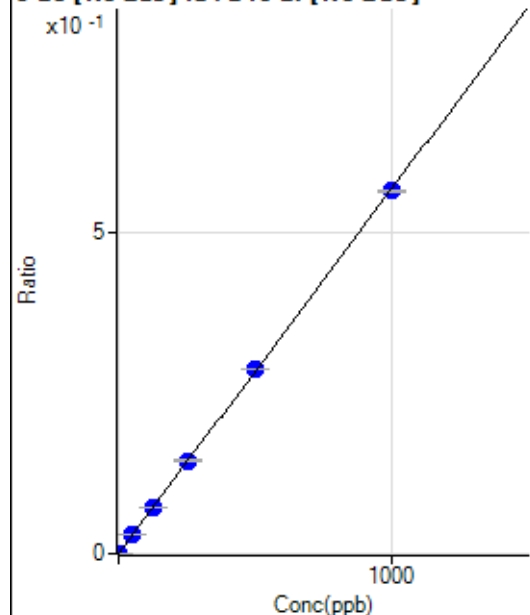


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8123020MS.b\
Analysis File: P8123020MS.batch.bin
DA Date-Time: 2020-12-31 01:01:44
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-12-30 13:24:42
2	004CALS.d	S02	2020-12-30 13:27:54
3	005CALS.d	S03	2020-12-30 13:31:03
4	006CALS.d	S04	2020-12-30 13:34:13
5	007CALS.d	S05	2020-12-30 13:37:18
6	008CALS.d	S06	2020-12-30 13:40:18
7	009CALS.d	S07	2020-12-30 13:43:17
8	010CALS.d	S08	2020-12-30 13:46:17

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.98	0.0001	P	7.5
2	☐	1.000	0.973	834.53	0.0006	P	8.2
3	☐	50.000	51.545	38614.55	0.0294	P	3.0
4	☐	125.000	128.435	97210.34	0.0732	P	0.7
5	☐	250.000	255.377	200554.66	0.1454	P	1.2
6	☐	500.000	506.255	390851.55	0.2882	P	1.0
7	☐	1000.000	995.022	789297.27	0.5664	P	0.4
8	☐			536.57	0.0004	P	12.6

$$y = 5.6914\text{E-}004 * x + 8.0255\text{E-}005$$

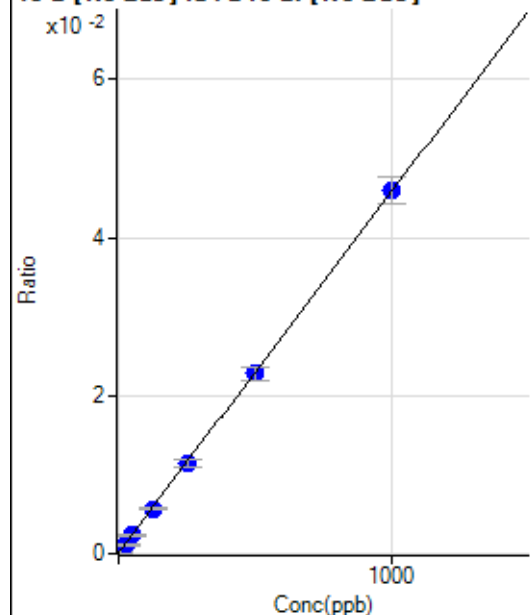
$$R = 1.0000$$

$$DL = 0.0318$$

$$BEC = 0.141$$

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	154.64	0.0001	P	10.2
2	☐	25.000	21.774	1465.79	0.0011	P	11.0
3	☐	50.000	49.272	3105.73	0.0024	P	11.7
4	☐	125.000	121.991	7558.47	0.0057	P	7.3
5	☐	250.000	247.657	15759.34	0.0114	P	7.3
6	☐	500.000	496.308	30886.93	0.0228	P	8.1
7	☐	1000.000	1002.925	64002.07	0.0459	P	7.3
8	☐			9151.72	0.0069	P	8.1

$$y = 4.5658\text{E-}005 * x + 1.1961\text{E-}004$$

$$R = 1.0000$$

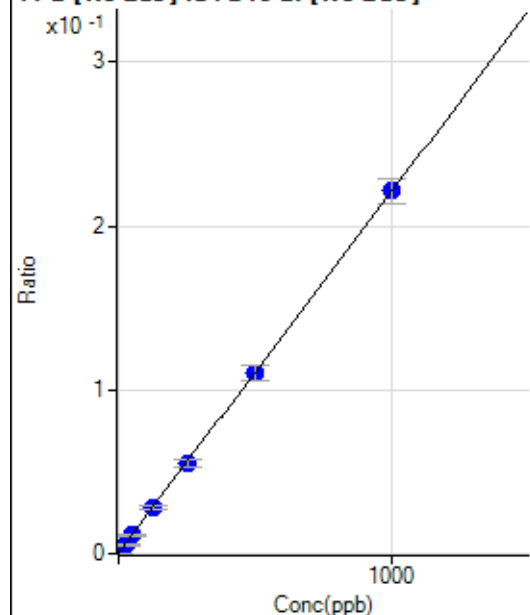
$$DL = 0.799$$

$$BEC = 2.62$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	721.21	0.0006	P	6.4
2	☐	25.000	22.223	7185.02	0.0055	P	8.2
3	☐	50.000	49.891	15150.82	0.0116	P	11.3
4	☐	125.000	124.309	37156.12	0.0280	P	7.1
5	☐	250.000	248.962	76482.19	0.0555	P	8.7
6	☐	500.000	497.106	149384.38	0.1102	P	8.1
7	☐	1000.000	1001.868	308730.22	0.2215	P	6.8
8	☐			44077.23	0.0330	P	9.2

$$y = 2.2050\text{E-}004 * x + 5.5753\text{E-}004$$

$$R = 1.0000$$

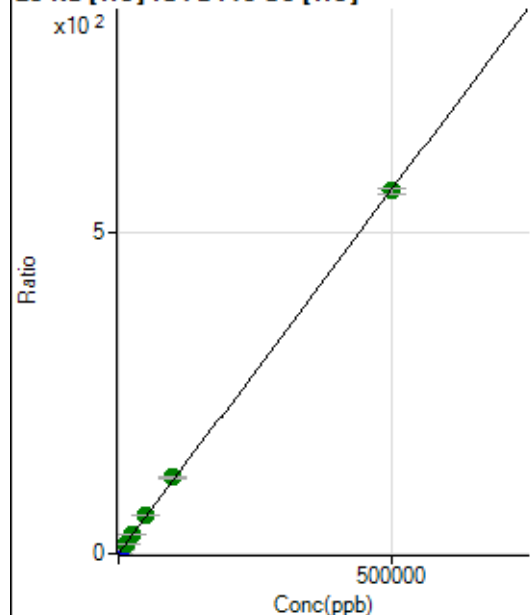
$$DL = 0.4888$$

$$BEC = 2.528$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34728.12	0.3361	P	4.4
2	☐	500.000	516.564	97672.90	0.9220	P	0.4
3	☐	5000.000	5423.362	700221.14	6.4875	P	0.8
4	☐	12500.000	13334.107	1668162.33	15.4603	A	1.2
5	☐	25000.000	26898.213	3413396.74	30.8454	A	0.9
6	☐	50000.000	53010.471	6681660.70	60.4632	A	1.6
7	☐	100000.00	104879.59	13465748.91	119.2958	A	3.5
8	☐	500000.00	498603.02	60520028.44	565.8767	A	1.3

$$y = 0.0011 * x + 0.3361$$

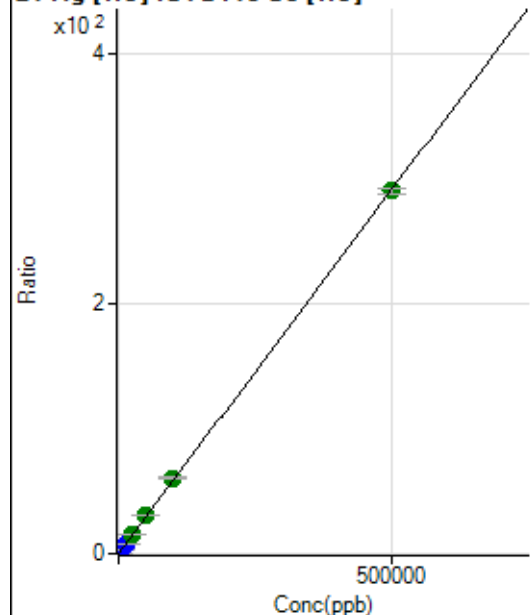
$$R = 0.9999$$

$$DL = 39.25$$

$$BEC = 296.3$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	825.05	0.0080	P	0.8
2	☐	500.000	519.888	32859.82	0.3102	P	1.3
3	☐	5000.000	5463.805	343669.89	3.1841	P	1.2
4	☐	12500.000	13564.998	851718.71	7.8934	P	0.6
5	☐	25000.000	27172.537	1748836.63	15.8035	A	1.2
6	☐	50000.000	53304.095	3425008.72	30.9938	A	1.8
7	☐	100000.00	104062.55	6827999.80	60.4999	A	4.2
8	☐	500000.00	498717.17	31005989.23	289.9140	A	1.5

$$y = 5.8130\text{E-}004 * x + 0.0080$$

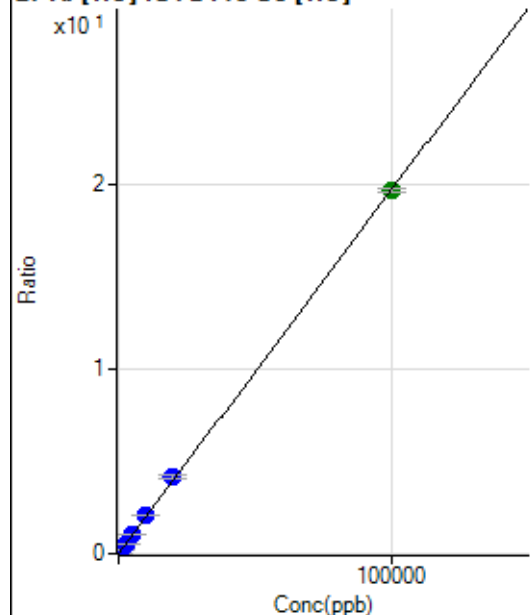
$$R = 1.0000$$

$$DL = 0.3158$$

$$BEC = 13.72$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	427.87	0.0041	P	3.2
2	☐	20.000	18.303	820.76	0.0077	P	4.6
3	☐	1000.000	1056.794	22961.82	0.2127	P	1.4
4	☐	2500.000	2677.178	57468.51	0.5326	P	0.7
5	☐	5000.000	5357.826	117497.31	1.0618	P	0.8
6	☐	10000.000	10652.537	232824.09	2.1069	P	1.8
7	☐	20000.000	21028.339	468916.02	4.1551	P	4.3
8	☐	100000.00	99706.190	2105410.21	19.6858	A	1.0

$$y = 1.9740\text{E-}004 * x + 0.0041$$

$$R = 0.9999$$

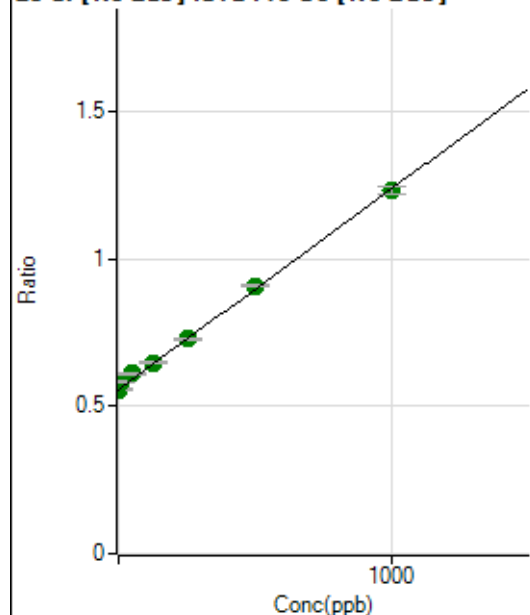
$$DL = 2.025$$

$$BEC = 20.95$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1422253.10	0.5587	A	0.8
2	☐	10.000	36.177	1450122.01	0.5833	A	0.6
3	☐	50.000	77.322	1535905.95	0.6114	A	1.4
4	☐	125.000	132.063	1673814.37	0.6487	A	0.9
5	☐	250.000	252.641	1937075.28	0.7309	A	0.7
6	☐	500.000	515.793	2383662.94	0.9103	A	0.6
7	☐	1000.000	988.933	3360906.13	1.2328	A	2.0
8	☐			1582931.63	0.6133	A	1.7

$$y = 6.8165E-004 * x + 0.5587$$

R = 0.9995

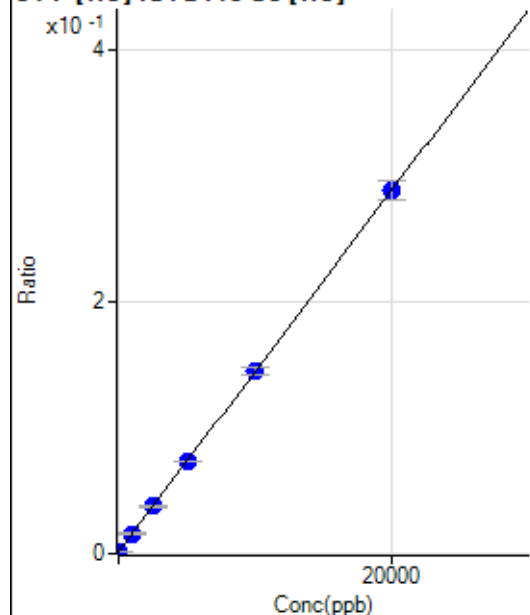
DL = 18.68

BEC = 819.6

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-13.547	144.45	0.0014	P	26.1
2	☐	0.000	13.547	188.90	0.0018	P	24.7
3	☐	1000.000	974.401	1677.92	0.0155	P	9.7
4	☐	2500.000	2514.853	4056.21	0.0376	P	4.2
5	☐	5000.000	5018.757	8127.48	0.0734	P	1.2
6	☐	10000.000	10007.329	16014.75	0.1449	P	4.1
7	☐	20000.000	19991.070	32473.15	0.2878	P	5.4
8	☐			194.45	0.0018	P	36.2

$$y = 1.4318E-005 * x + 0.0016$$

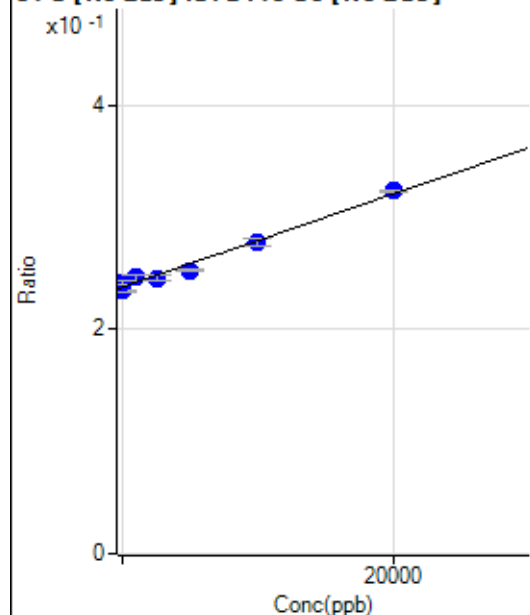
R = 1.0000

DL = 84.32

BEC = 110.9

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	-897.319	596897.33	0.2345	P	0.7
2	☐	0.000	897.319	601265.76	0.2419	P	0.7
3	☐	1000.000	1945.460	618486.66	0.2462	P	2.2
4	☐	2500.000	1824.424	633964.42	0.2457	P	1.9
5	☐	5000.000	3570.977	670390.33	0.2529	P	0.6
6	☐	10000.000	9465.623	726091.13	0.2773	P	2.3
7	☐	20000.000	20661.618	882231.23	0.3236	P	0.5
8	☐			577206.79	0.2236	P	1.1

$$y = 4.1360\text{E-}006 * x + 0.2382$$

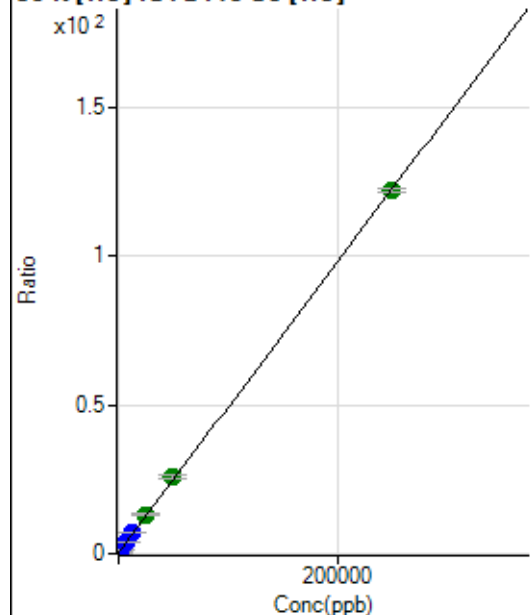
$$R = 0.9919$$

$$DL = 1247$$

$$BEC = 5.759\text{E+}04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31203.95	0.3019	P	4.1
2	☐	500.000	500.920	57838.29	0.5460	P	1.4
3	☐	2500.000	2662.890	172620.45	1.5993	P	1.0
4	☐	6250.000	6719.312	385803.16	3.5755	P	0.3
5	☐	12500.000	13529.858	762864.35	6.8935	P	0.6
6	☐	25000.000	26441.723	1456892.96	13.1841	A	1.9
7	☐	50000.000	52570.928	2924673.61	25.9140	A	4.1
8	☐	250000.00	249276.78	13021183.54	121.7471	A	1.0

$$y = 4.8719\text{E-}004 * x + 0.3019$$

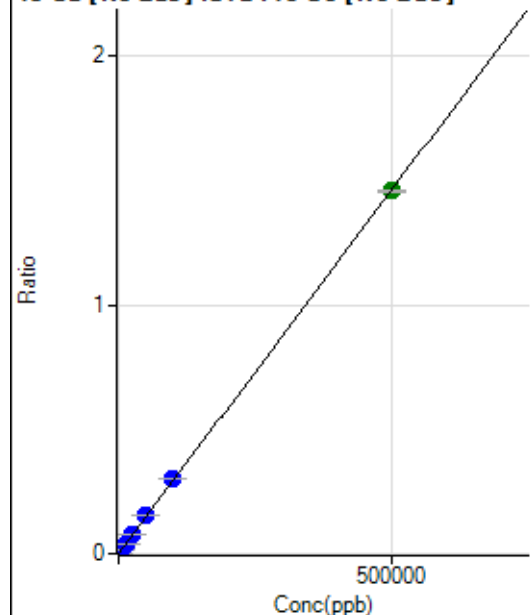
$$R = 0.9999$$

$$DL = 76.8$$

$$BEC = 619.7$$

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	237.47	0.0001	P	6.5
2	☐	500.000	518.043	3993.82	0.0016	P	1.9
3	☐	5000.000	5372.966	39665.07	0.0158	P	2.4
4	☐	12500.000	13017.193	98369.00	0.0381	P	1.7
5	☐	25000.000	26293.247	203853.19	0.0769	P	0.7
6	☐	50000.000	52681.732	403292.32	0.1540	P	0.7
7	☐	100000.00	102562.41	817121.03	0.2997	P	1.0
8	☐	500000.00	499138.00	3764431.67	1.4584	A	0.8

$$y = 2.9216\text{E-}006 * x + 9.3267\text{E-}005$$

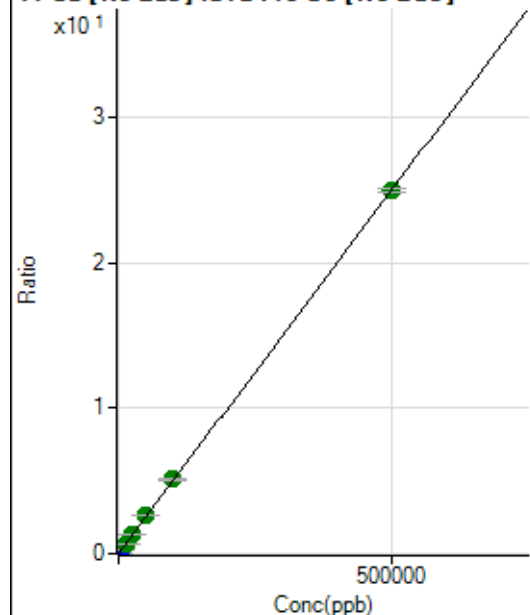
$$R = 1.0000$$

$$DL = 6.179$$

$$BEC = 31.92$$

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	17843.18	0.0070	P	0.9
2	☐	500.000	515.571	81348.56	0.0327	P	0.8
3	☐	5000.000	5353.268	688338.80	0.2740	P	2.6
4	☐	12500.000	13191.693	1715811.95	0.6650	A	1.9
5	☐	25000.000	26588.069	3533610.49	1.3333	A	1.4
6	☐	50000.000	52477.835	6873189.25	2.6247	A	0.7
7	☐	100000.00	101911.72	13876762.20	5.0905	A	1.2
8	☐	500000.00	499269.62	64300241.33	24.9113	A	1.2

$$y = 4.9881\text{E-}005 * x + 0.0070$$

$$R = 1.0000$$

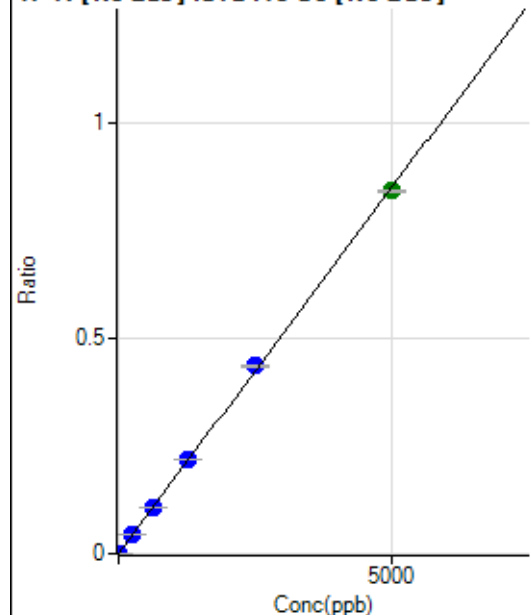
$$DL = 3.93$$

$$BEC = 140.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.90	0.0001	P	19.5
2	☐	5.000	5.235	2514.18	0.0010	P	1.7
3	☐	250.000	257.084	109886.57	0.0437	P	1.2
4	☐	625.000	635.292	278442.07	0.1079	P	1.0
5	☐	1250.000	1274.842	573571.72	0.2164	P	0.0
6	☐	2500.000	2565.382	1140056.11	0.4354	P	0.6
7	☐	5000.000	4959.458	2294047.01	0.8415	A	0.7
8	☐			763.93	0.0003	P	33.8

$$y = 1.6965E-004 * x + 1.2334E-004$$

$$R = 0.9999$$

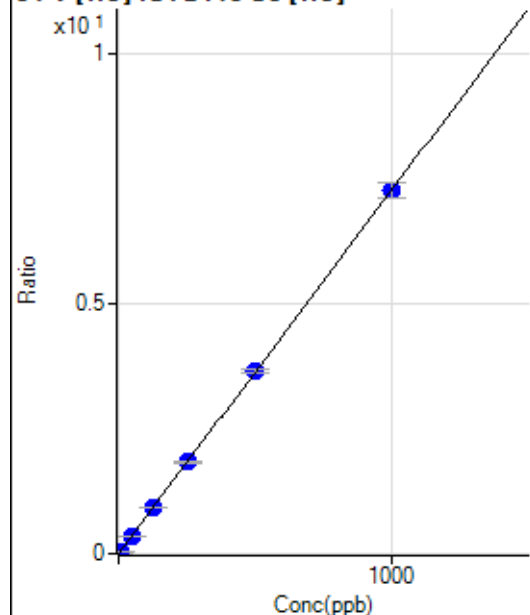
$$DL = 0.4244$$

$$BEC = 0.727$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0001	P	58.5
2	☐	5.000	4.907	3781.65	0.0357	P	3.7
3	☐	50.000	49.642	38882.75	0.3603	P	1.0
4	☐	125.000	125.112	97952.07	0.9078	P	0.1
5	☐	250.000	252.344	202603.96	1.8309	P	1.0
6	☐	500.000	501.836	402346.13	3.6409	P	1.6
7	☐	1000.000	998.500	817585.53	7.2442	P	4.1
8	☐			80.00	0.0007	P	19.0

$$y = 0.0073 * x + 9.7024E-005$$

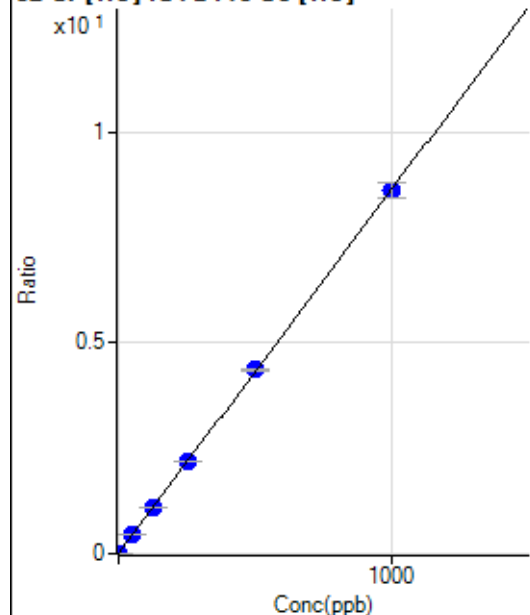
$$R = 1.0000$$

$$DL = 0.02346$$

$$BEC = 0.01337$$

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	605.57	0.0059	P	8.5
2	☐	2.000	1.876	2337.99	0.0221	P	2.5
3	☐	50.000	50.867	48039.16	0.4451	P	1.0
4	☐	125.000	125.329	117403.64	1.0881	P	1.0
5	☐	250.000	254.409	243751.26	2.2027	P	0.5
6	☐	500.000	504.731	482270.86	4.3641	P	1.4
7	☐	1000.000	996.448	971678.45	8.6100	P	4.3
8	☐			3726.07	0.0348	P	1.1

$$y = 0.0086 * x + 0.0059$$

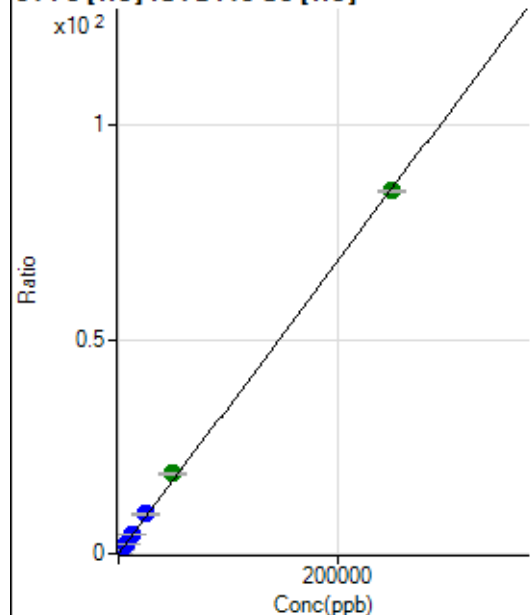
$$R = 1.0000$$

$$DL = 0.174$$

$$BEC = 0.6793$$

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	403.72	0.0039	P	9.9
2	☐	50.000	55.749	2424.32	0.0229	P	4.6
3	☐	2500.000	2724.986	100507.80	0.9312	P	0.8
4	☐	6250.000	6867.067	252563.30	2.3407	P	0.4
5	☐	12500.000	13705.355	516522.82	4.6677	P	1.5
6	☐	25000.000	27077.292	1018635.58	9.2180	P	1.7
7	☐	50000.000	54717.511	2102186.87	18.6236	A	3.5
8	☐	250000.00	248770.82	9054310.74	84.6574	A	0.5

$$y = 3.4029E-004 * x + 0.0039$$

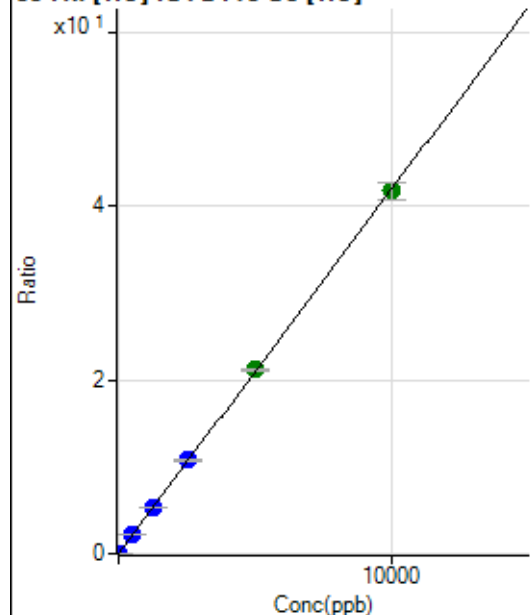
$$R = 0.9998$$

$$DL = 3.43$$

$$BEC = 11.5$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	123.33	0.0012	P	6.5
2	☐	1.000	0.974	560.02	0.0053	P	10.8
3	☐	500.000	508.536	230592.90	2.1364	P	0.4
4	☐	1250.000	1270.327	575655.23	5.3349	P	0.4
5	☐	2500.000	2566.030	1192428.21	10.7752	P	0.6
6	☐	5000.000	5049.045	2342945.42	21.2007	A	0.9
7	☐	10000.000	9956.002	4717361.88	41.8036	A	4.7
8	☐			2287.98	0.0214	P	4.8

$$y = 0.0042 * x + 0.0012$$

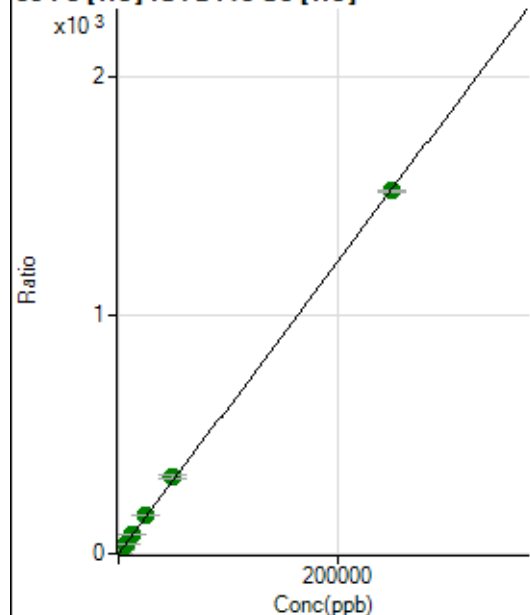
$$R = 1.0000$$

$$DL = 0.05511$$

$$BEC = 0.2843$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3048.53	0.0295	P	6.4
2	☐	50.000	53.449	37739.04	0.3562	P	1.0
3	☐	2500.000	2741.068	1811834.85	16.7864	A	1.5
4	☐	6250.000	6785.142	4478863.84	41.5090	A	0.6
5	☐	12500.000	13441.139	9096322.54	82.1991	A	0.6
6	☐	25000.000	26601.153	17974922.39	162.6501	A	0.7
7	☐	50000.000	52741.381	36389709.15	322.4530	A	4.4
8	☐	250000.00	249228.76	162959027.7	1.523.637	A	0.7

$$y = 0.0061 * x + 0.0295$$

$$R = 0.9999$$

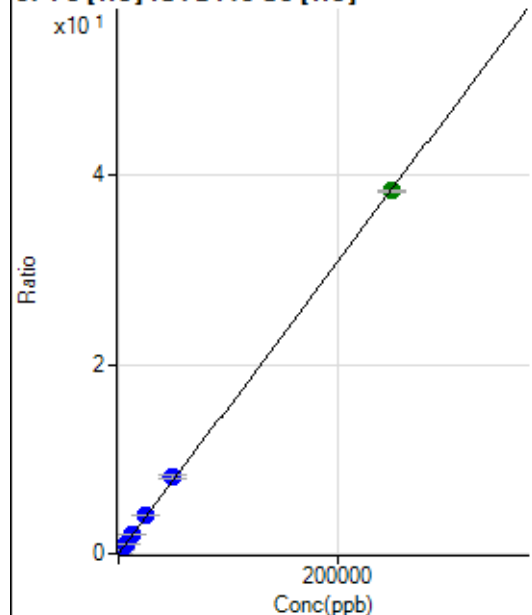
$$DL = 0.9267$$

$$BEC = 4.824$$

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	101.86	0.0010	P	19.3
2	☐	50.000	53.110	970.42	0.0092	P	3.9
3	☐	2500.000	2682.832	44703.42	0.4142	P	1.9
4	☐	6250.000	6714.321	111690.79	1.0351	P	0.3
5	☐	12500.000	13518.564	230516.56	2.0831	P	0.9
6	☐	25000.000	26742.208	455283.52	4.1198	P	0.8
7	☐	50000.000	52601.601	914277.59	8.1026	P	5.0
8	☐	250000.00	249241.09	4105801.28	38.3886	A	0.4

$$y = 1.5402\text{E-}004 * x + 9.8083\text{E-}004$$

$$R = 0.9999$$

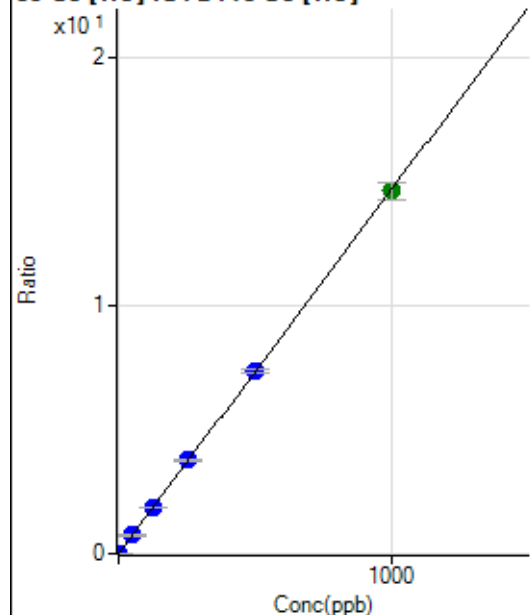
$$DL = 3.684$$

$$BEC = 6.368$$

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	64.44	0.0006	P	4.0
2	☐	1.000	0.969	1570.10	0.0148	P	7.3
3	☐	50.000	50.283	79586.25	0.7374	P	1.6
4	☐	125.000	127.837	202175.69	1.8737	P	0.9
5	☐	250.000	256.330	415693.15	3.7564	P	0.6
6	☐	500.000	503.377	815096.42	7.3762	P	2.0
7	☐	1000.000	996.360	1647421.66	14.5994	A	4.8
8	☐			2113.51	0.0198	P	3.0

$$y = 0.0147 * x + 6.2228\text{E-}004$$

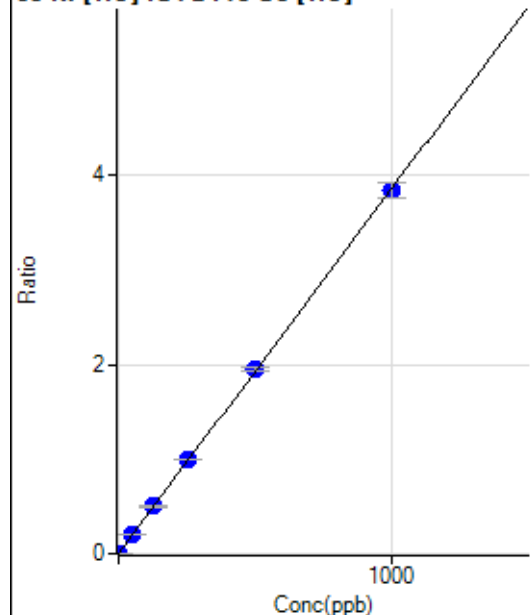
$$R = 1.0000$$

$$DL = 0.005109$$

$$BEC = 0.04247$$

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	211.11	0.0020	P	17.2
2	☐	1.000	0.897	582.24	0.0055	P	3.7
3	☐	50.000	51.339	21593.13	0.2001	P	1.1
4	☐	125.000	129.222	54002.06	0.5005	P	0.9
5	☐	250.000	257.324	110063.59	0.9946	P	0.8
6	☐	500.000	505.977	215902.87	1.9537	P	1.2
7	☐	1000.000	994.586	433194.03	3.8384	P	4.2
8	☐			1242.29	0.0116	P	7.4

$$y = 0.0039 * x + 0.0020$$

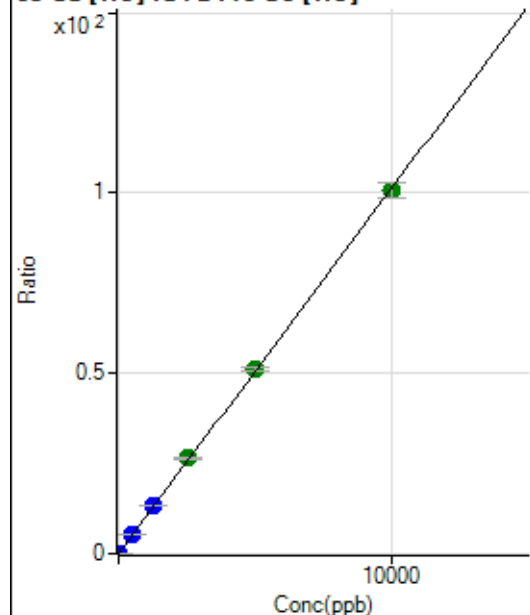
$$R = 0.9999$$

$$DL = 0.2731$$

$$BEC = 0.5278$$

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	630.02	0.0061	P	9.4
2	☐	2.000	2.280	3092.59	0.0292	P	1.0
3	☐	500.000	522.242	571376.85	5.2938	P	0.5
4	☐	1250.000	1311.699	1433694.22	13.2869	P	0.4
5	☐	2500.000	2610.083	2925142.53	26.4330	A	0.7
6	☐	5000.000	5059.551	5661725.68	51.2336	A	1.5
7	☐	10000.000	9933.879	11352334.55	100.5858	A	4.3
8	☐			5710.09	0.0534	P	5.3

$$y = 0.0101 * x + 0.0061$$

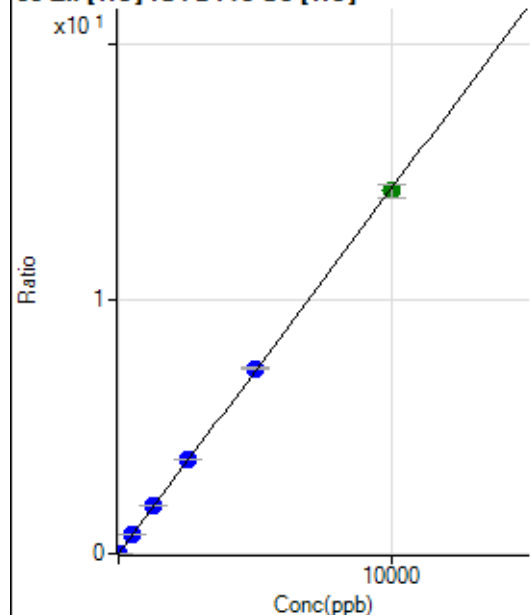
$$R = 0.9999$$

$$DL = 0.1691$$

$$BEC = 0.6029$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD:⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	168.89	0.0016	P	9.8
2	☐	2.000	2.039	483.35	0.0046	P	2.7
3	☐	500.000	519.484	80647.47	0.7472	P	0.5
4	☐	1250.000	1295.171	200746.36	1.8604	P	0.1
5	☐	2500.000	2591.781	411811.77	3.7213	P	0.4
6	☐	5000.000	5070.657	804374.36	7.2790	P	1.6
7	☐	10000.000	9935.106	1609579.58	14.2604	A	3.7
8	☐			1333.41	0.0125	P	3.2

$$y = 0.0014 * x + 0.0016$$

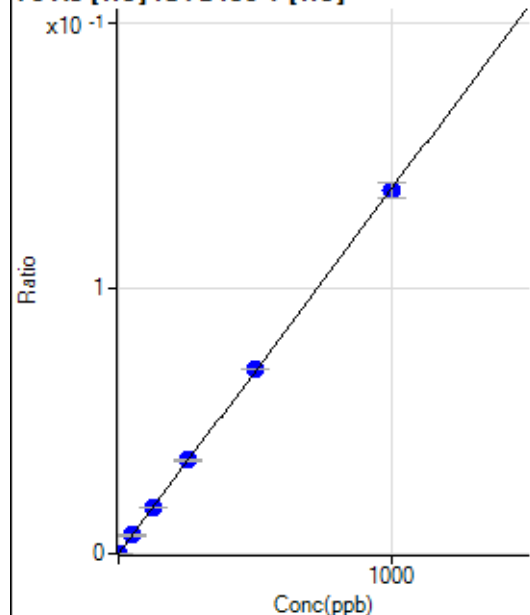
$$R = 0.9999$$

$$DL = 0.3355$$

$$BEC = 1.14$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD:⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.67	0.0000	P	40.8
2	☐	1.000	1.078	132.34	0.0002	P	6.1
3	☐	50.000	50.377	6017.89	0.0069	P	2.0
4	☐	125.000	127.163	15103.57	0.0175	P	1.1
5	☐	250.000	256.163	31086.82	0.0352	P	0.8
6	☐	500.000	507.030	61211.37	0.0696	P	0.6
7	☐	1000.000	994.655	124167.64	0.1366	P	4.3
8	☐			51.68	0.0001	P	5.8

$$y = 1.3730E-004 * x + 5.6196E-006$$

$$R = 0.9999$$

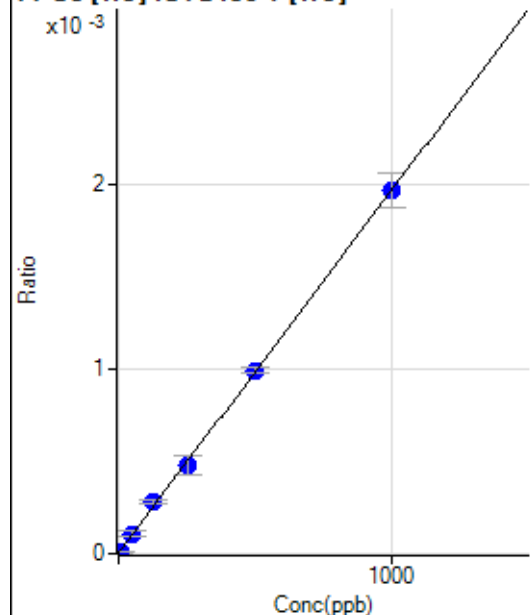
$$DL = 0.05011$$

$$BEC = 0.04093$$

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	4.44	0.0000	P	113.4
2	☐	5.000	1.811	7.78	0.0000	P	49.4
3	☐	50.000	52.705	94.44	0.0001	P	29.7
4	☐	125.000	138.883	240.00	0.0003	P	7.5
5	☐	250.000	242.328	424.45	0.0005	P	22.3
6	☐	500.000	502.976	871.15	0.0010	P	3.5
7	☐	1000.000	998.576	1781.24	0.0020	P	9.5
8	☐			1.11	0.0000	P	173.2

$$y = 1.9591\text{E-}006 * x + 5.4696\text{E-}006$$

$$R = 0.9998$$

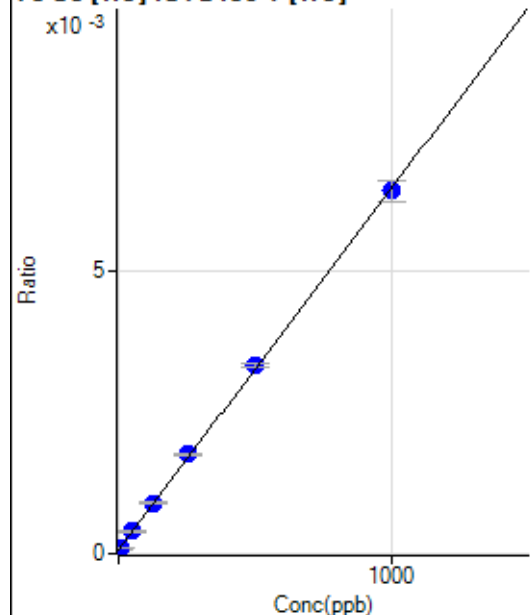
$$DL = 9.497$$

$$BEC = 2.792$$

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	70.01	0.0001	P	10.4
2	☐	5.000	1.971	84.34	0.0001	P	10.6
3	☐	50.000	49.845	351.71	0.0004	P	6.2
4	☐	125.000	126.569	774.44	0.0009	P	4.2
5	☐	250.000	261.857	1556.91	0.0018	P	2.3
6	☐	500.000	509.902	2944.94	0.0033	P	2.5
7	☐	1000.000	991.911	5849.14	0.0064	P	5.6
8	☐			55.34	0.0001	P	14.1

$$y = 6.4021\text{E-}006 * x + 8.5273\text{E-}005$$

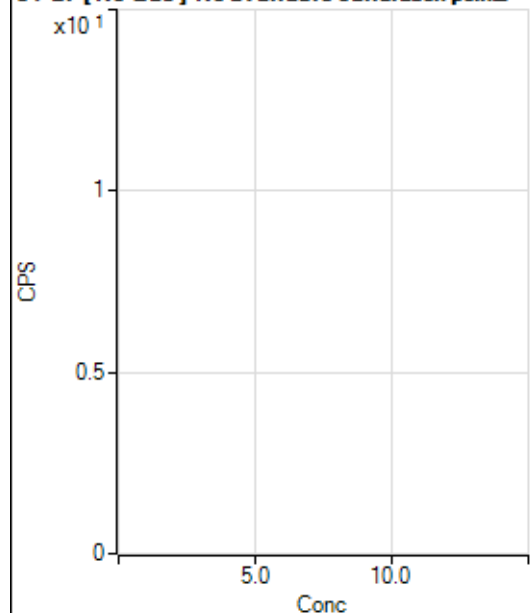
$$R = 0.9998$$

$$DL = 4.174$$

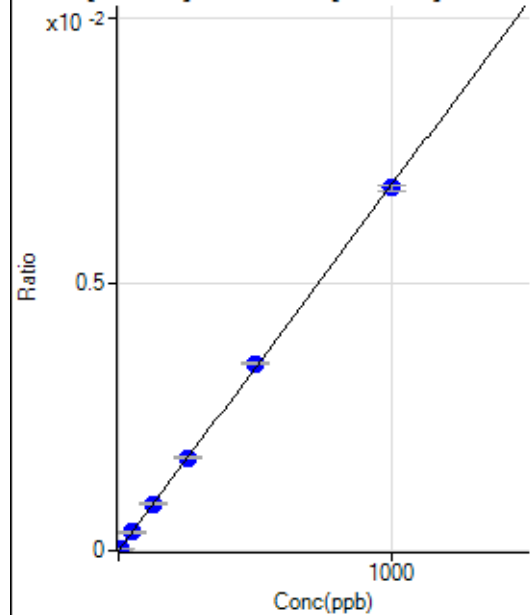
$$BEC = 13.32$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3530.76		P	8.1
2	☐			3794.44		P	3.6
3	☐			3497.39		P	5.5
4	☐			3497.37		P	2.1
5	☐			3704.33		P	7.1
6	☐			3470.69		P	3.7
7	☐			3794.46		P	10.2
8	☐			3937.94		P	4.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-33.72	0.0000	P	-104.
2	☐	5.000	5.757	247.39	0.0000	P	35.8
3	☐	50.000	50.877	2438.56	0.0003	P	6.4
4	☐	125.000	128.828	6378.86	0.0009	P	2.1
5	☐	250.000	254.599	12932.72	0.0017	P	0.4
6	☐	500.000	511.991	25589.97	0.0035	P	1.2
7	☐	1000.000	992.328	51594.34	0.0068	P	1.4
8	☐			48.35	0.0000	P	158.6

$$y = 6.8716E-006 * x - 4.7352E-006$$

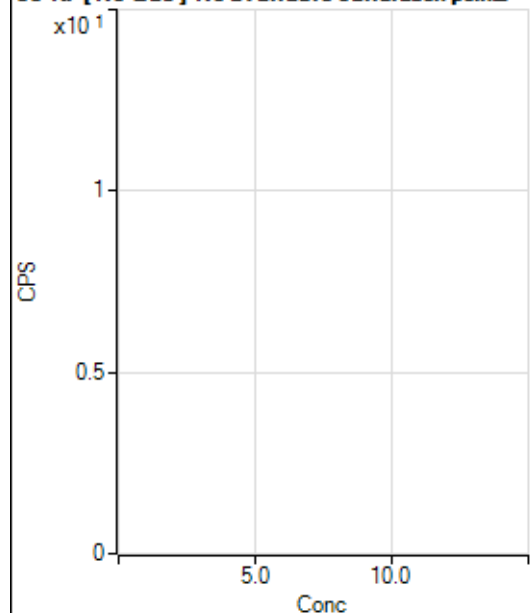
$$R = 0.9999$$

$$DL = 2.157$$

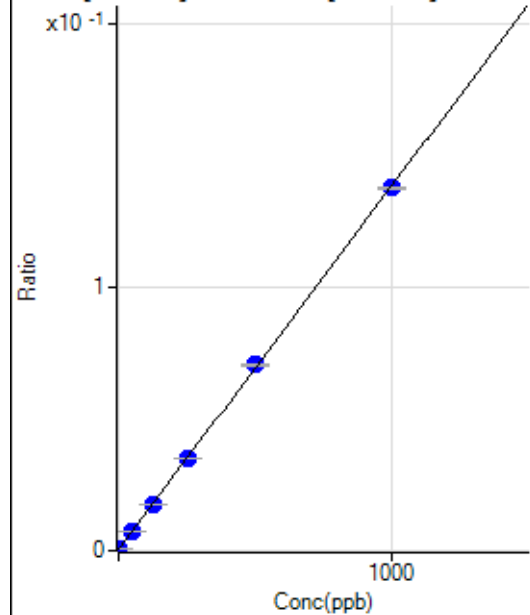
$$BEC = -0.6891$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1863.48		P	3.5
2	☐			1874.59		P	6.9
3	☐			1886.81		P	1.2
4	☐			1830.14		P	5.6
5	☐			1903.49		P	0.8
6	☐			1965.71		P	2.3
7	☐			1840.14		P	2.4
8	☐			1872.37		P	0.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3000.41	0.0004	P	5.2
2	☐	1.000	1.096	4067.38	0.0006	P	6.8
3	☐	50.000	51.095	52808.51	0.0075	P	3.5
4	☐	125.000	125.151	128029.34	0.0177	P	1.0
5	☐	250.000	252.386	260990.76	0.0352	P	0.8
6	☐	500.000	508.095	513161.35	0.0705	P	1.4
7	☐	1000.000	995.282	1041930.31	0.1376	P	0.8
8	☐			8274.87	0.0011	P	3.9

$$y = 1.3784\text{E-}004 * x + 4.2168\text{E-}004$$

$$R = 0.9999$$

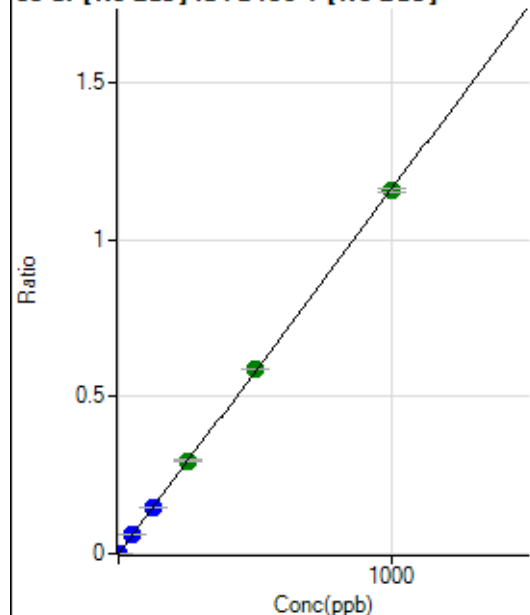
$$DL = 0.4733$$

$$BEC = 3.059$$

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	238.90	0.0000	P	21.3
2	☐	1.000	0.978	8299.92	0.0012	P	4.3
3	☐	50.000	52.266	429469.68	0.0607	P	1.8
4	☐	125.000	128.045	1076874.95	0.1486	P	0.7
5	☐	250.000	255.624	2199283.62	0.2967	A	1.1
6	☐	500.000	505.163	4270570.54	0.5863	A	0.3
7	☐	1000.000	995.519	8747992.12	1.1554	A	1.1
8	☐			45524.79	0.0063	P	0.6

$$y = 0.0012 * x + 3.3571E-005$$

$$R = 1.0000$$

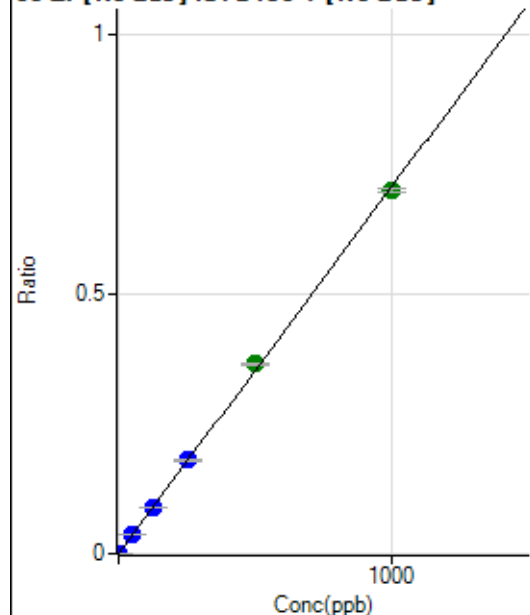
$$DL = 0.01846$$

$$BEC = 0.02893$$

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	269.45	0.0000	P	18.9
2	☐	1.000	0.958	5067.71	0.0007	P	1.2
3	☐	50.000	51.827	258934.75	0.0366	P	2.8
4	☐	125.000	127.784	653305.93	0.0902	P	0.6
5	☐	250.000	254.759	1332368.73	0.1797	P	1.0
6	☐	500.000	517.485	2658967.96	0.3651	A	1.4
7	☐	1000.000	989.629	5285962.31	0.6981	A	0.9
8	☐			1980.75	0.0003	P	10.9

$$y = 7.0540E-004 * x + 3.7898E-005$$

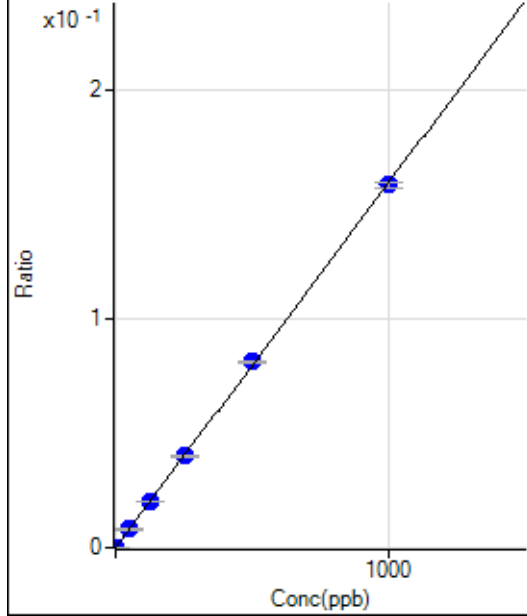
$$R = 0.9998$$

$$DL = 0.03054$$

$$BEC = 0.05373$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	36.5
2	☐	1.000	0.864	1061.18	0.0001	P	5.1
3	☐	50.000	50.720	57304.46	0.0081	P	3.2
4	☐	125.000	125.215	144743.86	0.0200	P	1.0
5	☐	250.000	251.303	297126.19	0.0401	P	1.3
6	☐	500.000	510.193	592687.51	0.0814	P	0.7
7	☐	1000.000	994.515	1200841.94	0.1586	P	1.3
8	☐			430.58	0.0001	P	34.1

$$y = 1.5946\text{E-}004 * x + 1.1717\text{E-}005$$

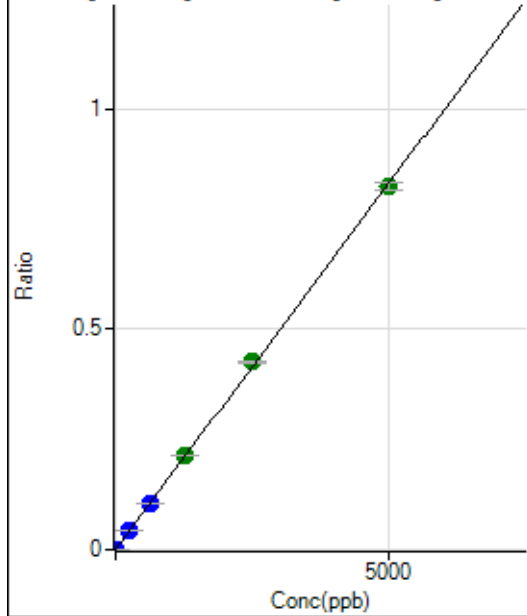
$$R = 0.9999$$

$$DL = 0.08049$$

$$BEC = 0.07348$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.45	0.0000	P	30.6
2	☐	5.000	4.825	5751.34	0.0008	P	5.1
3	☐	250.000	259.368	304361.42	0.0430	P	2.9
4	☐	625.000	635.622	763664.18	0.1054	P	0.9
5	☐	1250.000	1283.247	1577277.49	0.2128	A	0.6
6	☐	2500.000	2563.306	3096369.12	0.4251	A	1.1
7	☐	5000.000	4958.239	6225199.66	0.8222	A	2.2
8	☐			1833.51	0.0003	P	13.4

$$y = 1.6582\text{E-}004 * x + 9.7616\text{E-}006$$

$$R = 0.9999$$

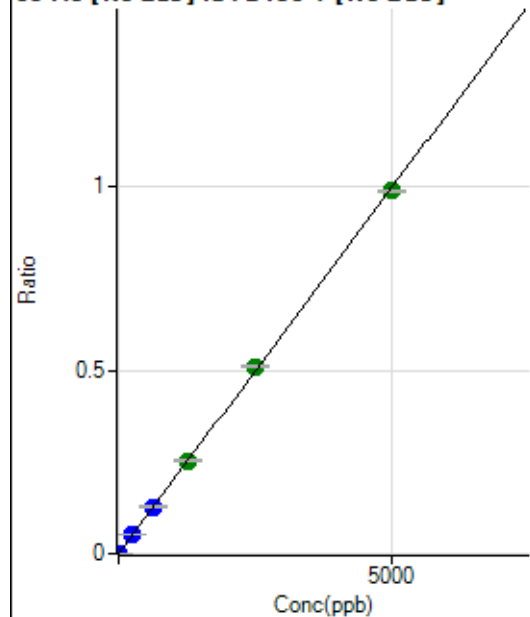
$$DL = 0.05403$$

$$BEC = 0.05887$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	58.4
2	☐	5.000	4.868	6921.33	0.0010	P	2.0
3	☐	250.000	261.126	368634.13	0.0521	P	2.7
4	☐	625.000	642.547	928771.22	0.1282	P	1.3
5	☐	1250.000	1272.408	1881592.92	0.2539	A	1.1
6	☐	2500.000	2559.661	3719676.65	0.5107	A	0.8
7	☐	5000.000	4961.818	7495483.07	0.9899	A	0.5
8	☐			2100.22	0.0003	P	14.8

$$y = 1.9951\text{E-}004 * x + 3.5209\text{E-}006$$

$$R = 0.9999$$

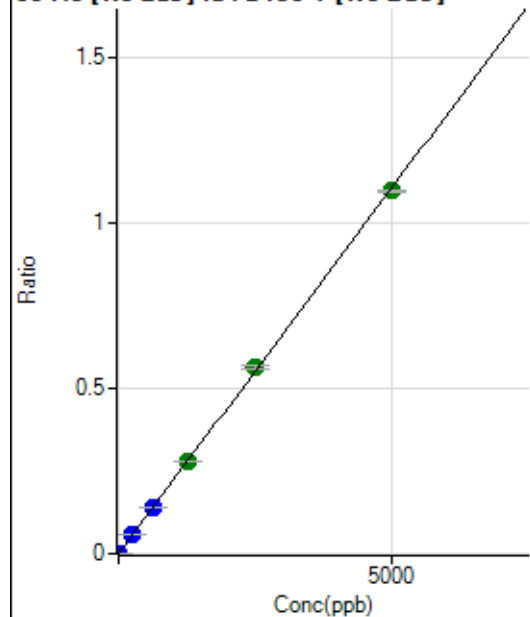
$$DL = 0.0309$$

$$BEC = 0.01765$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.89	0.0000	P	19.8
2	☐	5.000	4.873	7719.05	0.0011	P	4.0
3	☐	250.000	261.345	409124.91	0.0578	P	3.0
4	☐	625.000	637.344	1021636.50	0.1410	P	1.2
5	☐	1250.000	1271.684	2085345.08	0.2813	A	0.6
6	☐	2500.000	2554.802	4116642.76	0.5652	A	1.3
7	☐	5000.000	4965.068	8317169.28	1.0984	A	0.8
8	☐			2889.27	0.0004	P	10.5

$$y = 2.2123\text{E-}004 * x + 8.9741\text{E-}006$$

$$R = 0.9999$$

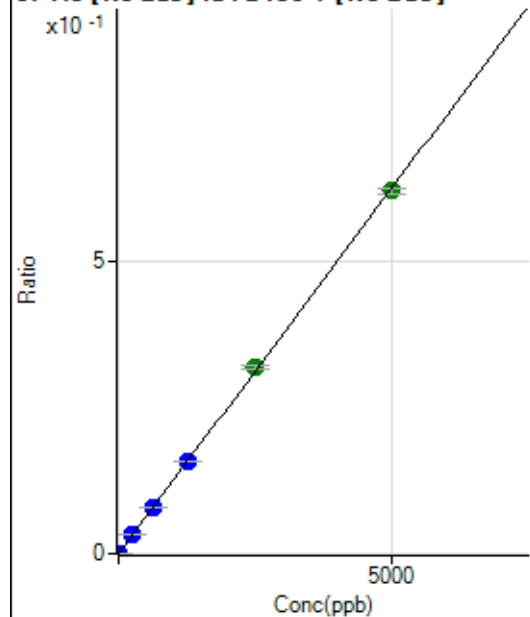
$$DL = 0.02413$$

$$BEC = 0.04056$$

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	16.67	0.0000	P	49.0
2	☐	5.000	5.097	4531.45	0.0006	P	4.9
3	☐	250.000	257.923	227624.50	0.0322	P	3.1
4	☐	625.000	629.216	568638.88	0.0785	P	0.8
5	☐	1250.000	1265.839	1170354.42	0.1579	P	1.7
6	☐	2500.000	2553.091	2319394.21	0.3185	A	1.7
7	☐	5000.000	4968.572	4692512.22	0.6197	A	1.6
8	☐			1291.76	0.0002	P	14.5

$$y = 1.2473\text{E-}004 * x + 2.3336\text{E-}006$$

$$R = 0.9999$$

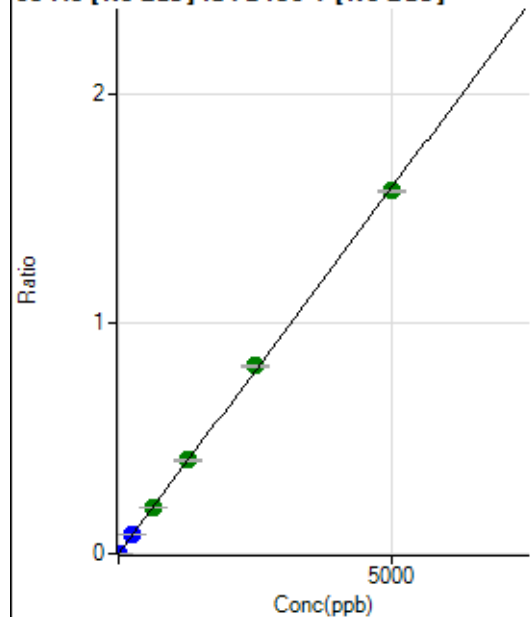
$$DL = 0.02748$$

$$BEC = 0.01871$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	93.5
2	☐	5.000	5.163	11721.88	0.0017	P	1.4
3	☐	250.000	259.102	583689.45	0.0825	P	2.4
4	☐	625.000	627.967	1448337.30	0.1999	A	0.4
5	☐	1250.000	1276.490	3012121.40	0.4064	A	1.3
6	☐	2500.000	2569.389	5957415.89	0.8179	A	1.3
7	☐	5000.000	4957.857	11950104.26	1.5783	A	0.8
8	☐			3203.25	0.0004	P	13.7

$$y = 3.1834\text{E-}004 * x + 7.0355\text{E-}006$$

$$R = 0.9998$$

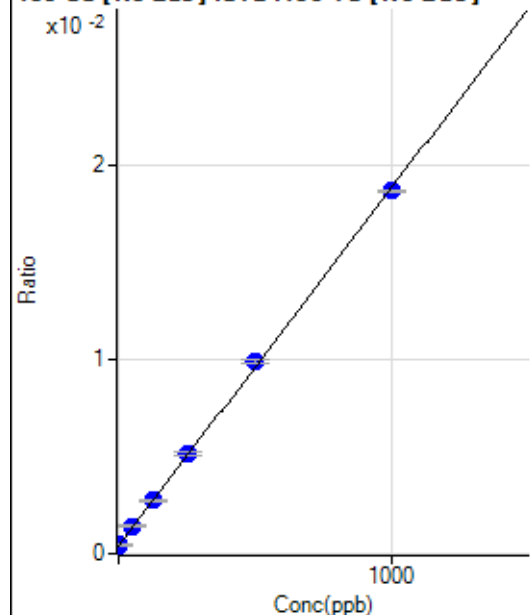
$$DL = 0.06201$$

$$BEC = 0.0221$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1586.25	0.0004	P	9.2
2	☐	1.000	1.773	1702.93	0.0004	P	16.9
3	☐	50.000	55.122	5384.55	0.0014	P	7.2
4	☐	125.000	126.869	10596.05	0.0027	P	3.0
5	☐	250.000	257.415	20574.19	0.0052	P	3.7
6	☐	500.000	512.690	38526.60	0.0099	P	2.0
7	☐	1000.000	991.311	76261.31	0.0187	P	0.6
8	☐			1705.71	0.0004	P	6.3

$$y = 1.8404\text{E-}005 * x + 4.1471\text{E-}004$$

$$R = 0.9999$$

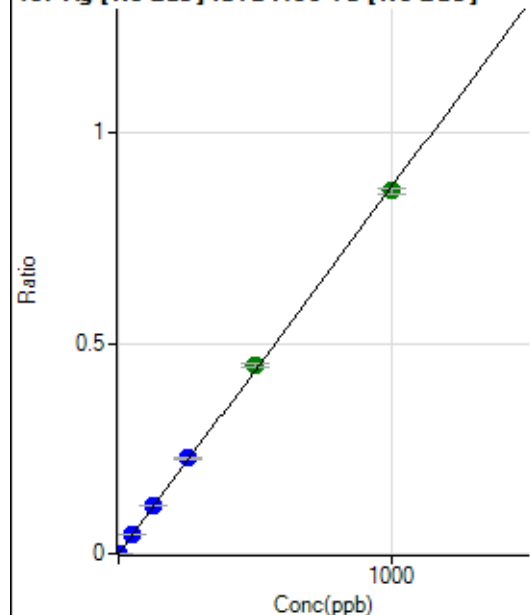
$$DL = 6.209$$

$$BEC = 22.53$$

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	69.45	0.0000	P	18.7
2	☐	1.000	0.967	3281.03	0.0009	P	3.1
3	☐	50.000	53.078	174330.02	0.0463	P	1.7
4	☐	125.000	130.666	438852.37	0.1139	P	0.7
5	☐	250.000	260.354	905937.42	0.2269	P	0.7
6	☐	500.000	514.499	1753570.98	0.4483	A	1.6
7	☐	1000.000	989.300	3523393.26	0.8620	A	1.3
8	☐			1308.43	0.0003	P	11.2

$$y = 8.7128\text{E-}004 * x + 1.8165\text{E-}005$$

$$R = 0.9998$$

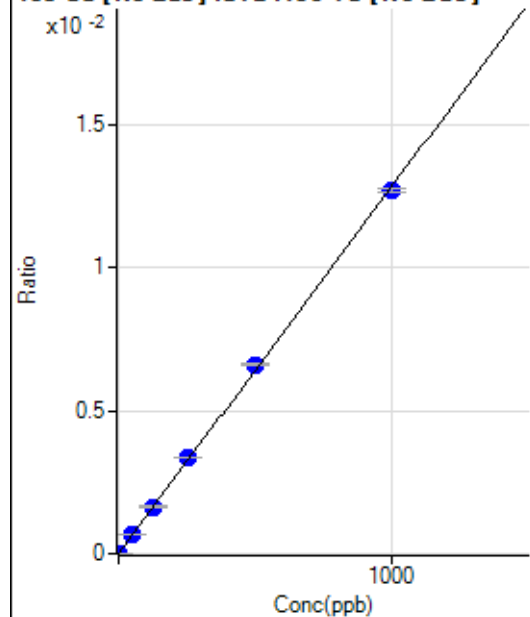
$$DL = 0.01167$$

$$BEC = 0.02085$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22.22	0.0000	P	47.5
2	☐	1.000	0.966	69.44	0.0000	P	20.3
3	☐	50.000	53.404	2600.28	0.0007	P	2.7
4	☐	125.000	127.904	6339.03	0.0016	P	2.7
5	☐	250.000	261.613	13409.46	0.0034	P	0.3
6	☐	500.000	514.894	25828.39	0.0066	P	0.5
7	☐	1000.000	989.116	51824.63	0.0127	P	1.0
8	☐			48.61	0.0000	P	12.3

$$y = 1.2812\text{E-}005 * x + 5.8155\text{E-}006$$

$$R = 0.9998$$

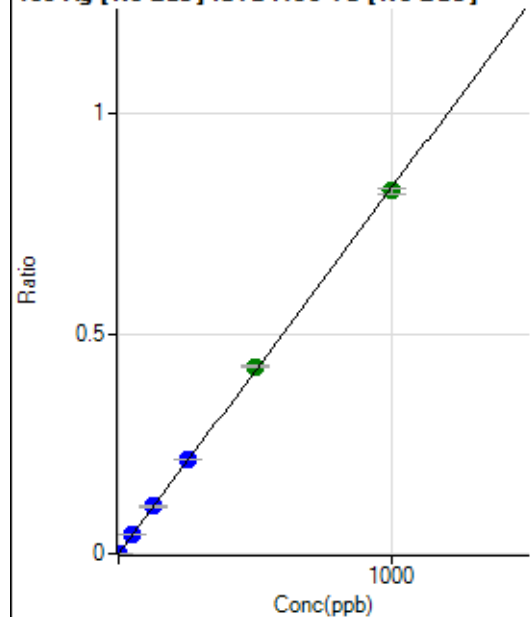
$$DL = 0.6466$$

$$BEC = 0.4539$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	12.1
2	☐	1.000	0.919	2953.18	0.0008	P	2.0
3	☐	50.000	52.805	165617.67	0.0440	P	1.7
4	☐	125.000	129.450	415195.80	0.1077	P	1.8
5	☐	250.000	257.136	854526.87	0.2140	P	0.9
6	☐	500.000	511.165	1663866.75	0.4254	A	1.3
7	☐	1000.000	991.937	3373693.13	0.8255	A	1.6
8	☐			1272.32	0.0003	P	16.1

$$y = 8.3216\text{E-}004 * x + 1.0166\text{E-}005$$

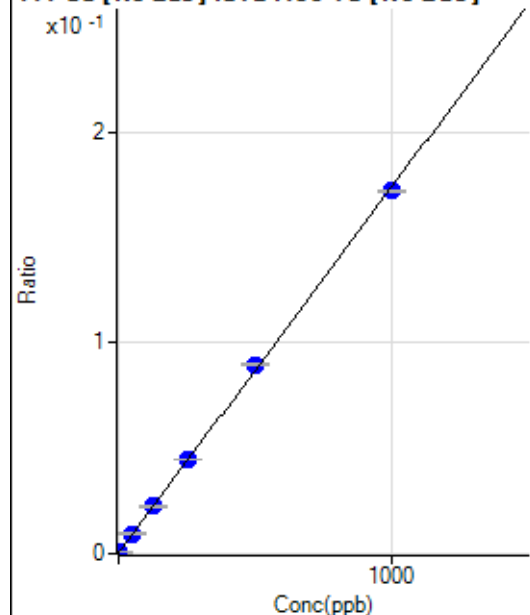
$$R = 0.9999$$

$$DL = 0.004437$$

$$BEC = 0.01222$$

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	1110.10	0.0003	P	9.5
2	☐	1.000	1.248	1929.59	0.0005	P	10.0
3	☐	50.000	53.150	35853.20	0.0095	P	3.2
4	☐	125.000	127.885	86658.66	0.0225	P	1.4
5	☐	250.000	256.034	178623.72	0.0447	P	0.5
6	☐	500.000	515.649	351200.40	0.0898	P	0.9
7	☐	1000.000	990.149	703578.20	0.1721	P	0.3
8	☐			1412.75	0.0004	P	5.5

$$y = 1.7356\text{E-}004 * x + 2.9022\text{E-}004$$

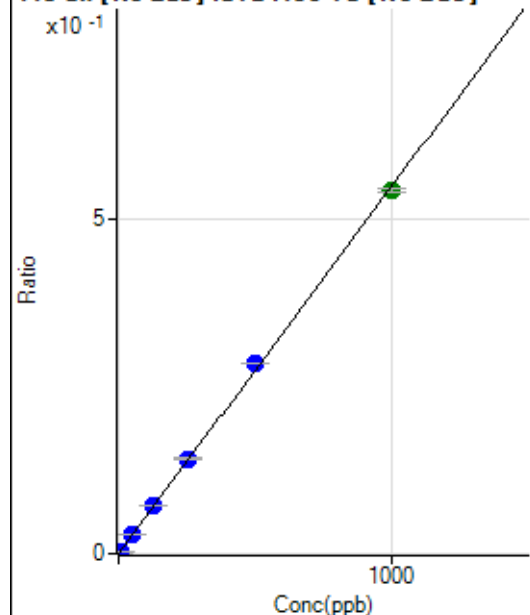
$$R = 0.9998$$

$$DL = 0.4774$$

$$BEC = 1.672$$

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	230.56	0.0001	P	15.3
2	☐	5.000	4.759	10173.45	0.0027	P	4.1
3	☐	50.000	51.914	107539.81	0.0285	P	1.5
4	☐	125.000	129.815	274663.96	0.0713	P	1.8
5	☐	250.000	258.126	565639.11	0.1416	P	0.9
6	☐	500.000	517.638	1110923.23	0.2840	P	0.3
7	☐	1000.000	988.453	2216438.11	0.5422	A	1.2
8	☐			1261.21	0.0003	P	4.3

$$y = 5.4852\text{E-}004 * x + 6.0302\text{E-}005$$

$$R = 0.9997$$

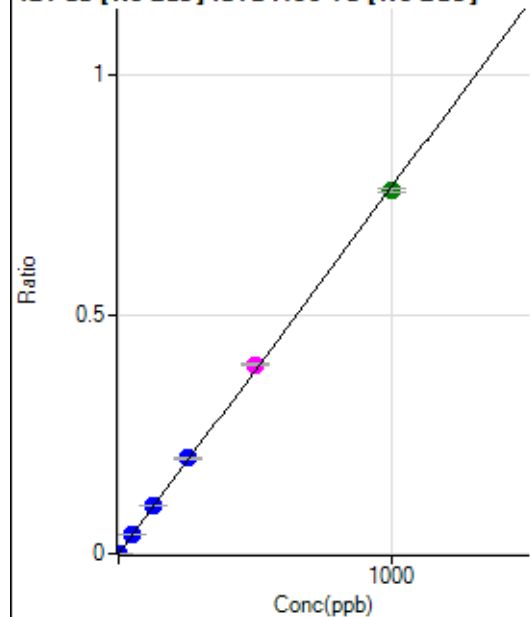
$$DL = 0.05045$$

$$BEC = 0.1099$$

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	38.89	0.0000	P	44.4
2	☐	2.000	1.968	5790.24	0.0015	P	1.9
3	☐	50.000	52.769	152460.24	0.0405	P	3.8
4	☐	125.000	130.472	385612.77	0.1001	P	1.0
5	☐	250.000	259.733	795390.42	0.1992	P	0.3
6	☐	500.000	514.134	1542047.88	0.3942	M	1.0
7	☐	1000.000	989.678	3101815.02	0.7589	A	1.0
8	☐			2241.91	0.0006	P	6.0

$$y = 7.6677\text{E-}004 * x + 1.0160\text{E-}005$$

$$R = 0.9998$$

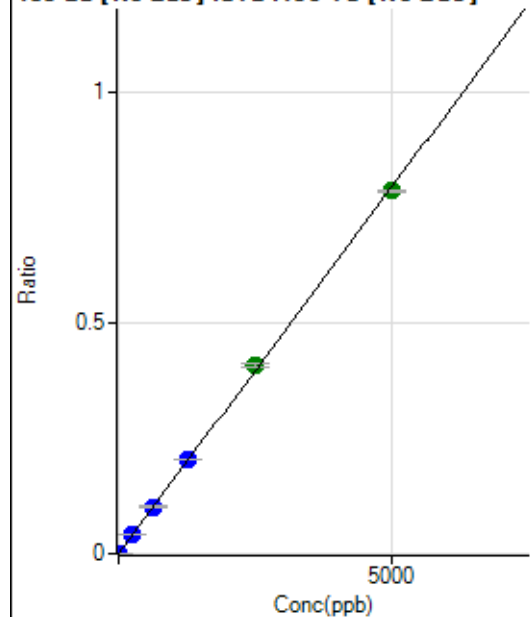
$$DL = 0.01763$$

$$BEC = 0.01325$$

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	36.11	0.0000	P	35.1
2	☐	10.000	9.999	6084.89	0.0016	P	3.7
3	☐	250.000	262.163	156896.67	0.0416	P	3.1
4	☐	625.000	642.662	393431.95	0.1021	P	0.7
5	☐	1250.000	1289.068	817617.55	0.2047	P	0.7
6	☐	2500.000	2569.867	1596514.87	0.4082	A	1.7
7	☐	5000.000	4952.484	3214852.44	0.7866	A	0.2
8	☐			891.72	0.0002	P	13.5

$$y = 1.5882\text{E-}004 * x + 9.4390\text{E-}006$$

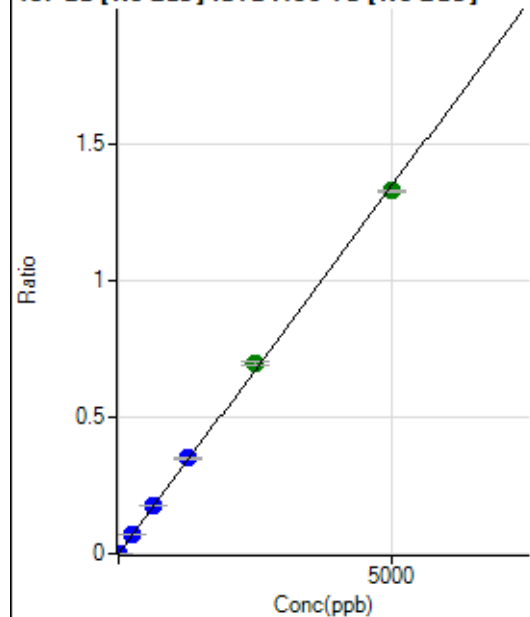
$$R = 0.9998$$

$$DL = 0.06254$$

$$BEC = 0.05943$$

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	52.78	0.0000	P	33.0
2	☐	10.000	9.996	10323.65	0.0027	P	1.1
3	☐	250.000	266.603	270918.51	0.0719	P	2.4
4	☐	625.000	651.600	677257.98	0.1757	P	0.4
5	☐	1250.000	1299.311	1399195.55	0.3504	P	1.0
6	☐	2500.000	2592.519	2734372.16	0.6991	A	1.5
7	☐	5000.000	4937.258	5441820.91	1.3313	A	0.8
8	☐			1614.04	0.0004	P	24.4

$$y = 2.6965E-004 * x + 1.3804E-005$$

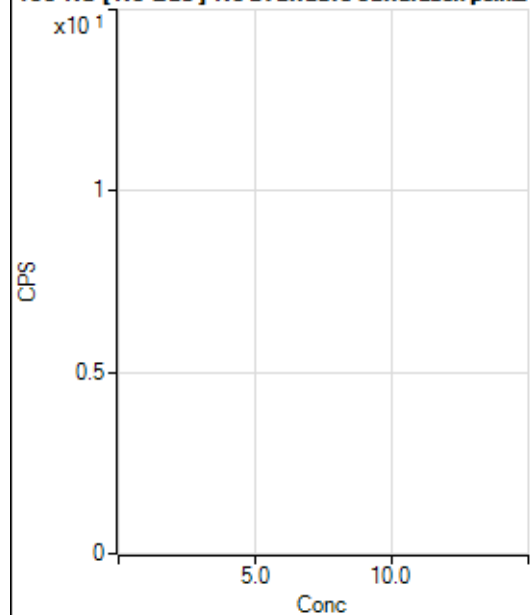
$$R = 0.9997$$

$$DL = 0.05062$$

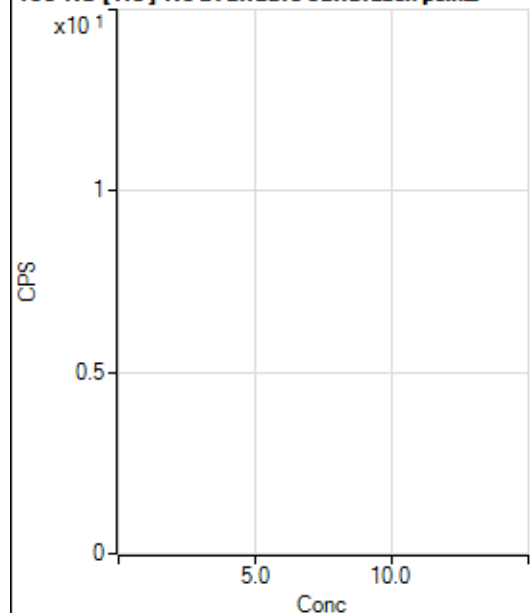
$$BEC = 0.05119$$

Weight: <None>

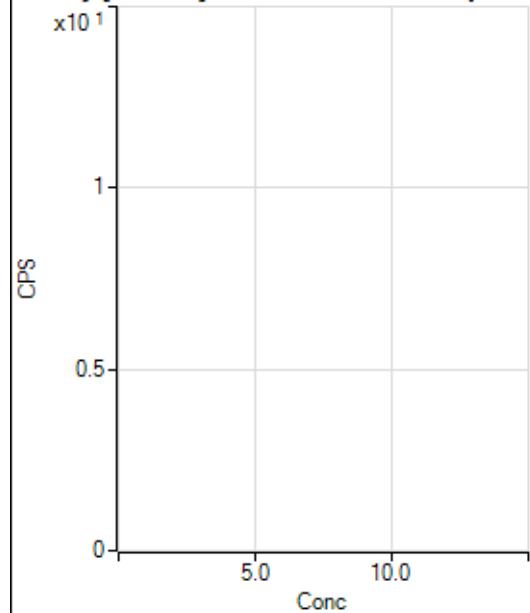
Min Conc: 0

150 Nd [No Gas] No available calibration points

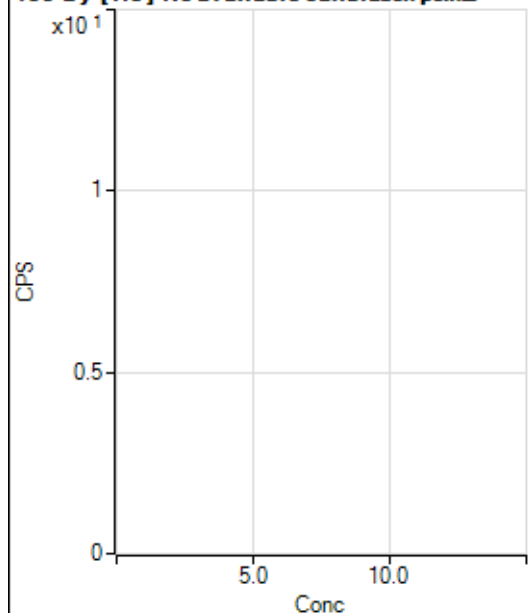
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	34.6
2	☐			8.89		P	86.6
3	☐			8.89		P	86.6
4	☐			24.45		P	15.8
5	☐			35.56		P	39.0
6	☐			113.34		P	10.2
7	☐			153.34		P	11.5
8	☐			31.11		P	65.5

150 Nd [He] No available calibration points

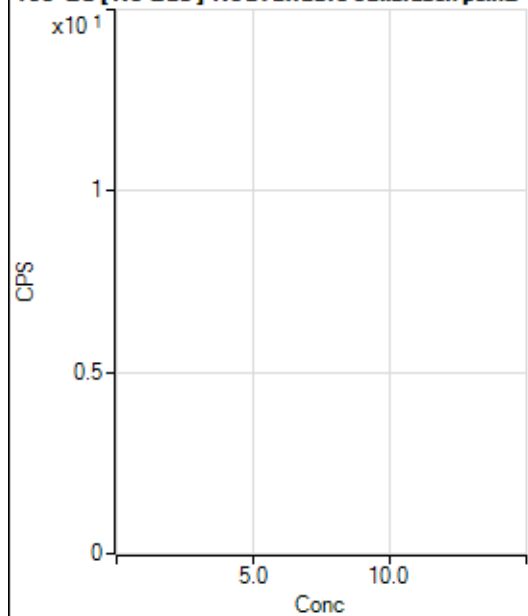
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			1.11		P	173.2
3	☐			1.11		P	173.2
4	☐			2.22		P	86.6
5	☐			2.22		P	173.2
6	☐			11.11		P	62.5
7	☐			15.55		P	86.6
8	☐			7.78		P	107.8

156 Dy [No Gas] No available calibration points

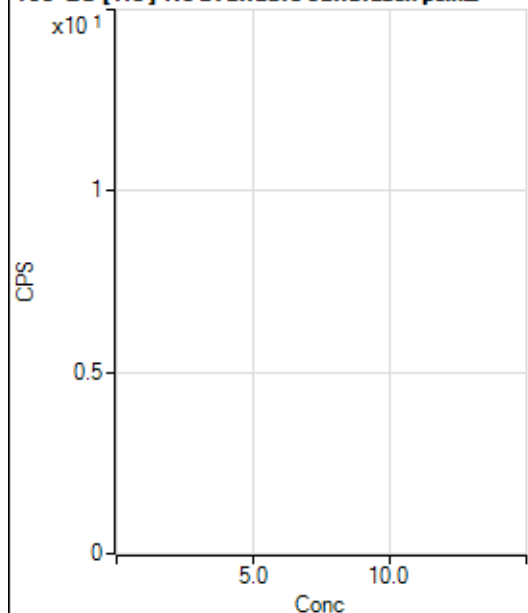
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	100.0
2	☐			16.67		P	100.0
3	☐			16.67		P	132.3
4	☐			30.56		P	56.8
5	☐			41.67		P	91.7
6	☐			72.22		P	6.7
7	☐			72.23		P	17.6
8	☐			683.37		P	16.4

156 Dy [He] No available calibration points

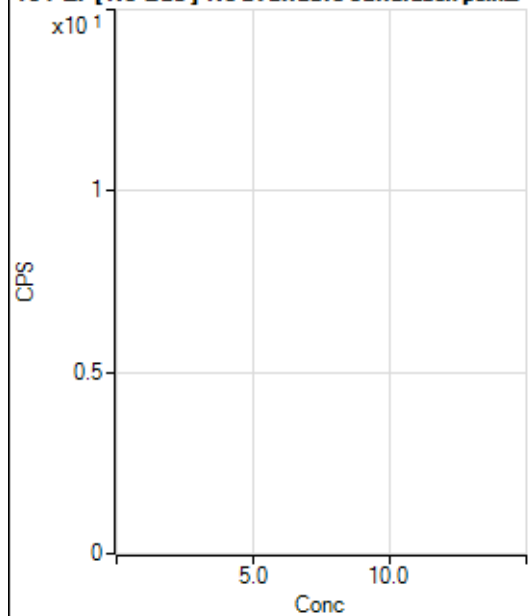
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.2
3	☐			4.45		P	86.6
4	☐			5.55		P	124.9
5	☐			11.11		P	62.5
6	☐			11.11		P	75.5
7	☐			37.78		P	33.4
8	☐			337.79		P	10.9

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

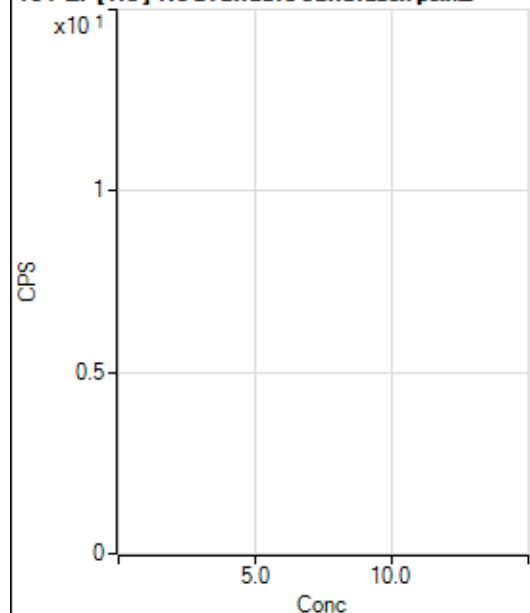
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			22.22		P	78.1
2	☐			27.78		P	34.6
3	☐			5.55		P	86.6
4	☐			38.89		P	24.7
5	☐			30.56		P	31.5
6	☐			27.78		P	69.3
7	☐			72.23		P	37.1
8	☐			677.82		P	13.1

160 Gd [He] No available calibration points

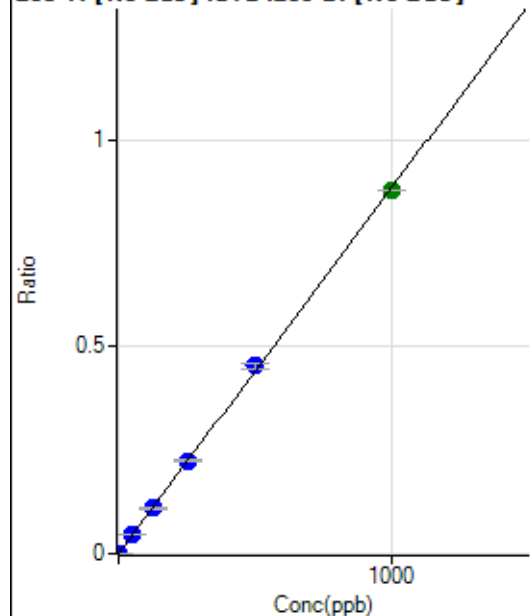
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.33		P	50.0
2	☐			11.11		P	96.4
3	☐			15.56		P	49.5
4	☐			11.11		P	45.8
5	☐			11.11		P	105.4
6	☐			15.55		P	24.8
7	☐			33.33		P	17.3
8	☐			385.57		P	8.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.11		P	48.0
2	☐			27.78		P	69.3
3	☐			25.00		P	33.3
4	☐			16.67		P	50.0
5	☐			25.00		P	33.3
6	☐			38.89		P	32.7
7	☐			38.89		P	44.6
8	☐			88.89		P	14.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			10.00		P	33.3
2	☐			12.22		P	56.8
3	☐			6.67		P	50.0
4	☐			12.22		P	41.7
5	☐			8.89		P	57.3
6	☐			3.33		P	0.0
7	☐			15.56		P	65.5
8	☐			41.11		P	20.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	80.56	0.0000	P	29.4
2	☐	1.000	0.980	1791.84	0.0009	P	9.5
3	☐	50.000	50.788	88571.37	0.0449	P	3.0
4	☐	125.000	123.890	217888.07	0.1094	P	2.9
5	☐	250.000	254.461	456493.71	0.2246	P	1.8
6	☐	500.000	513.349	896486.81	0.4532	P	2.4
7	☐	1000.000	992.310	1779076.69	0.8759	A	0.1
8	☐			1191.76	0.0006	P	14.8

$$y = 8.8267E-004 * x + 4.0810E-005$$

$$R = 0.9999$$

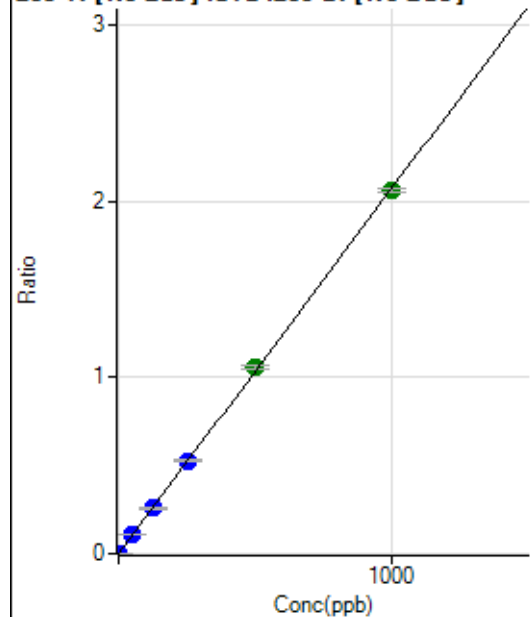
$$DL = 0.04084$$

$$BEC = 0.04624$$

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	197.23	0.0001	P	15.2
2	☐	1.000	0.987	4239.71	0.0021	P	3.3
3	☐	50.000	51.139	209030.25	0.1059	P	3.1
4	☐	125.000	125.497	517377.37	0.2598	P	3.3
5	☐	250.000	254.304	1069468.52	0.5263	P	1.4
6	☐	500.000	509.595	2086155.58	1.0545	A	2.0
7	☐	1000.000	994.008	4177538.98	2.0567	A	0.9
8	☐			3367.21	0.0018	P	10.8

$$y = 0.0021 * x + 1.0014E-004$$

$$R = 0.9999$$

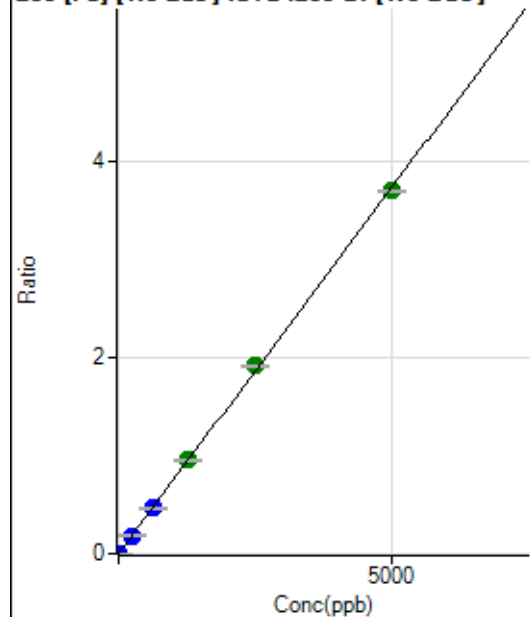
$$DL = 0.02207$$

$$BEC = 0.0484$$

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	277.79	0.0001	P	4.5
2	☐	1.000	0.922	1642.73	0.0008	P	4.6
3	☐	250.000	249.080	367209.62	0.1861	P	3.4
4	☐	625.000	623.022	926561.07	0.4652	P	2.2
5	☐	1250.000	1276.884	1937104.75	0.9532	A	1.6
6	☐	2500.000	2567.295	3791751.47	1.9164	A	1.4
7	☐	5000.000	4959.925	7519794.03	3.7022	A	0.8
8	☐			7582.00	0.0040	P	3.2

$$y = 7.4639E-004 * x + 1.4124E-004$$

$$R = 0.9998$$

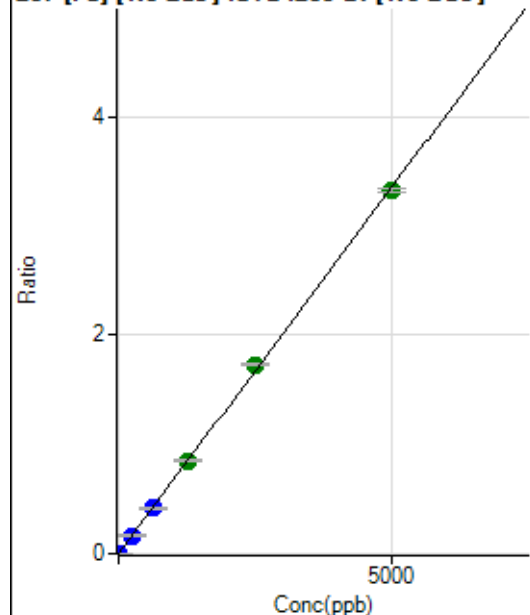
$$DL = 0.02581$$

$$BEC = 0.1892$$

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	301.86	0.0002	P	4.6
2	☐	1.000	0.924	1527.90	0.0008	P	4.1
3	☐	250.000	248.162	328235.94	0.1663	P	3.6
4	☐	625.000	622.388	830468.36	0.4169	P	1.9
5	☐	1250.000	1263.173	1719005.23	0.8459	A	2.4
6	☐	2500.000	2581.620	3420717.12	1.7287	A	1.1
7	☐	5000.000	4956.315	6740572.72	3.3188	A	1.0
8	☐			6787.11	0.0036	P	3.9

$$y = 6.6958\text{E-}004 * x + 1.5350\text{E-}004$$

$$R = 0.9998$$

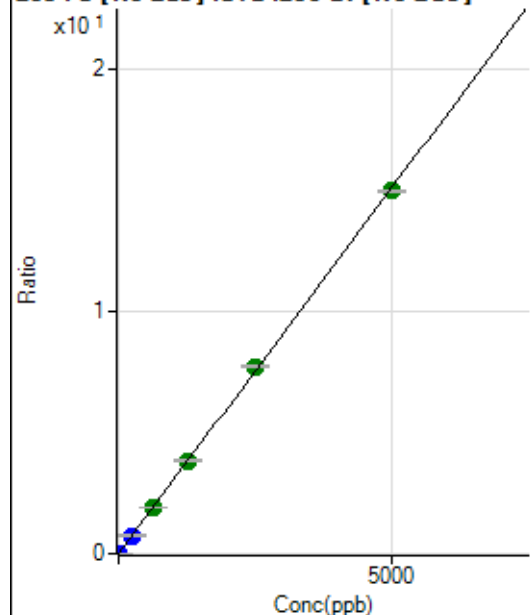
$$DL = 0.03142$$

$$BEC = 0.2292$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1216.71	0.0006	P	3.4
2	☐	1.000	0.896	6569.29	0.0033	P	1.4
3	☐	250.000	249.315	1483703.40	0.7517	P	3.3
4	☐	625.000	627.366	3766409.89	1.8907	A	1.4
5	☐	1250.000	1274.734	7805148.32	3.8410	A	1.8
6	☐	2500.000	2560.499	15265451.41	7.7146	A	0.9
7	☐	5000.000	4963.305	30371845.70	14.9536	A	0.2
8	☐			30718.56	0.0161	P	3.3

$$y = 0.0030 * x + 6.1855\text{E-}004$$

$$R = 0.9999$$

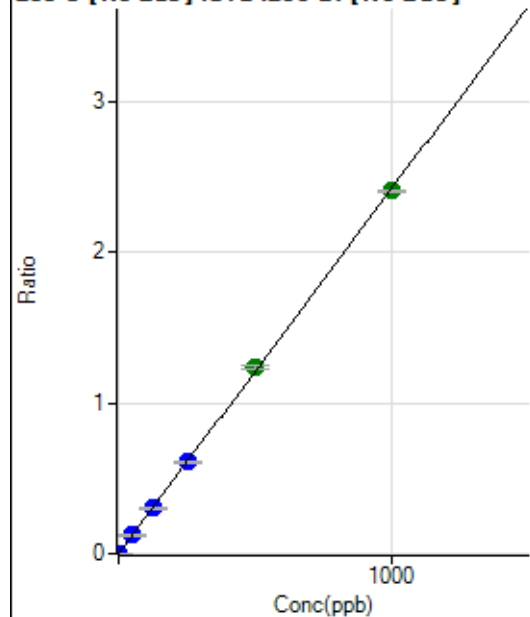
$$DL = 0.02118$$

$$BEC = 0.2053$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19.44	0.0000	P	66.7
2	☐	1.000	0.931	4473.12	0.0023	P	2.6
3	☐	50.000	50.574	241323.36	0.1223	P	3.4
4	☐	125.000	124.611	600086.48	0.3013	P	2.5
5	☐	250.000	251.745	1236530.27	0.6086	P	2.6
6	☐	500.000	510.243	2440873.34	1.2336	A	1.5
7	☐	1000.000	994.462	4883011.66	2.4042	A	0.7
8	☐			738.94	0.0004	P	27.4

$$y = 0.0024 * x + 9.9677E-006$$

$$R = 0.9999$$

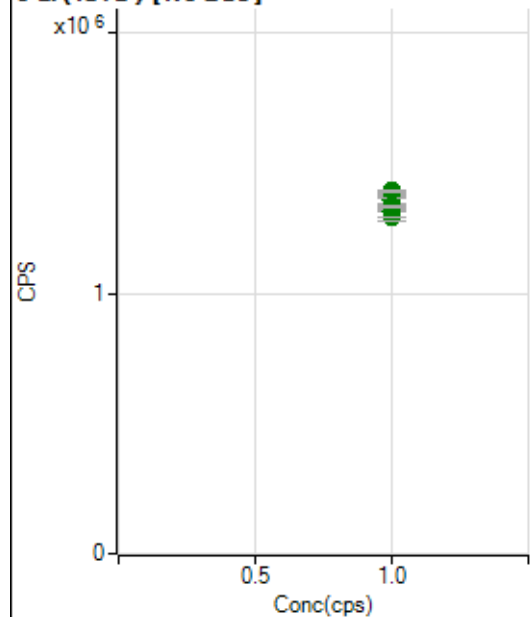
$$DL = 0.008252$$

$$BEC = 0.004123$$

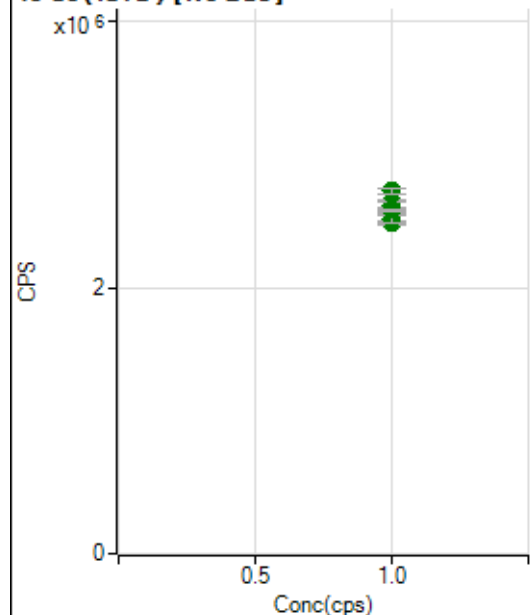
Weight: <None>

Min Conc: 0

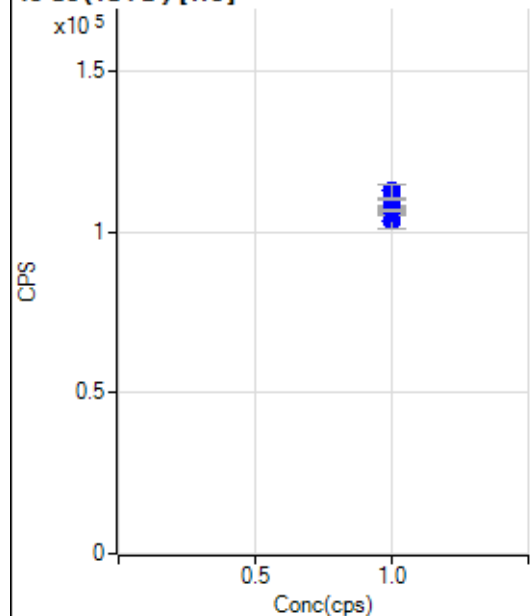
6 Li (ISTD) [No Gas]



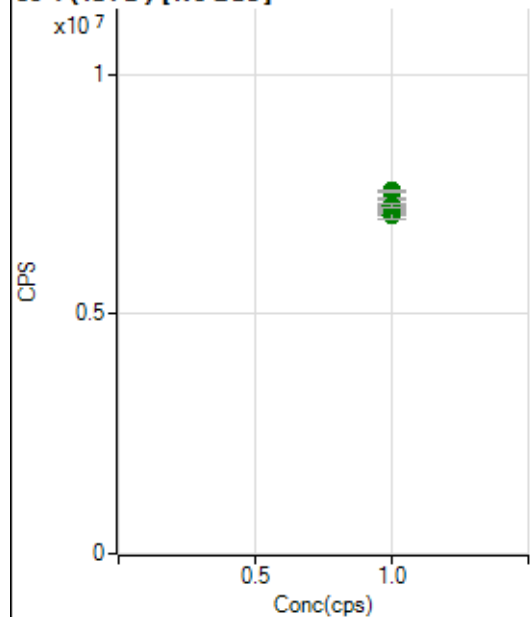
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1294987.32		A	2.5
2	☐	1.000		1316469.64		A	0.6
3	☐	1.000		1313334.70		A	2.6
4	☐	1.000		1328410.27		A	0.3
5	☐	1.000		1379114.93		A	0.4
6	☐	1.000		1356257.56		A	1.3
7	☐	1.000		1393599.56		A	0.9
8	☐	1.000		1333775.03		A	0.4

45 Sc (ISTD) [No Gas]

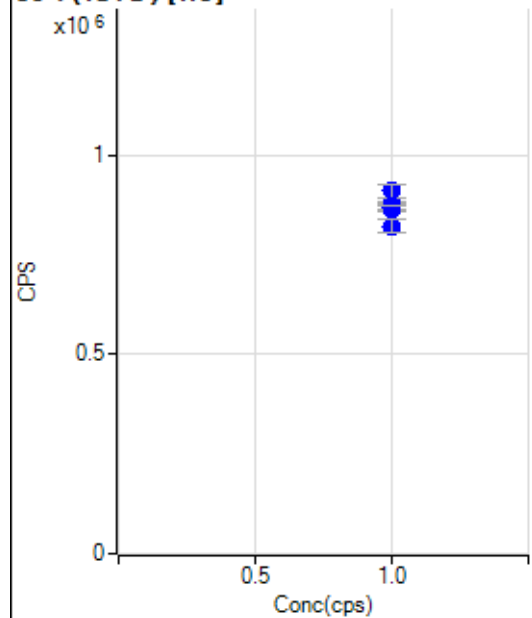
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2545853.09		A	0.3
2	☐	1.000		2485868.45		A	0.9
3	☐	1.000		2512786.60		A	2.3
4	☐	1.000		2580557.01		A	1.6
5	☐	1.000		2650439.89		A	0.8
6	☐	1.000		2618780.21		A	1.4
7	☐	1.000		2726176.04		A	1.3
8	☐	1.000		2581313.49		A	0.7

45 Sc (ISTD) [He]

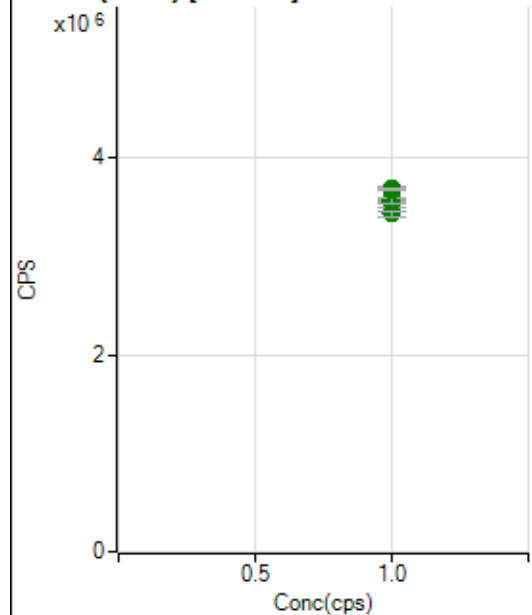
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		103453.79		P	3.9
2	☐	1.000		105939.78		P	0.6
3	☐	1.000		107935.66		P	0.6
4	☐	1.000		107902.03		P	0.3
5	☐	1.000		110663.94		P	0.4
6	☐	1.000		110517.40		P	0.9
7	☐	1.000		112970.41		P	3.6
8	☐	1.000		106954.94		P	0.7

89 Y (ISTD) [No Gas]

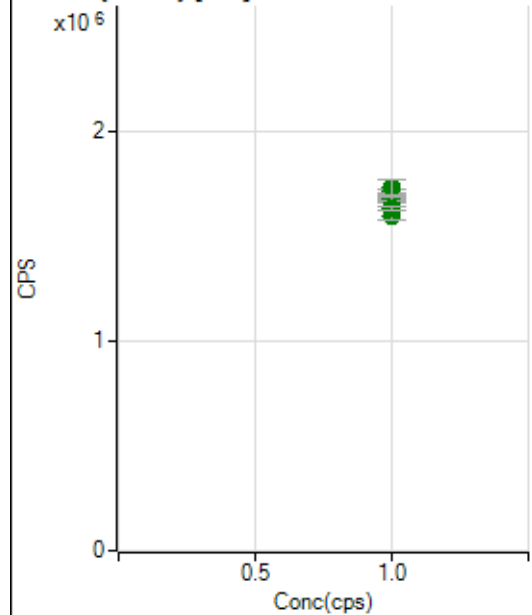
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7117558.92		A	1.2
2	☐	1.000		7101219.83		A	0.2
3	☐	1.000		7078540.94		A	2.5
4	☐	1.000		7244899.34		A	0.5
5	☐	1.000		7412221.49		A	0.9
6	☐	1.000		7284079.75		A	1.1
7	☐	1.000		7571796.49		A	0.5
8	☐	1.000		7264855.10		A	0.8

89 Y (ISTD) [He]

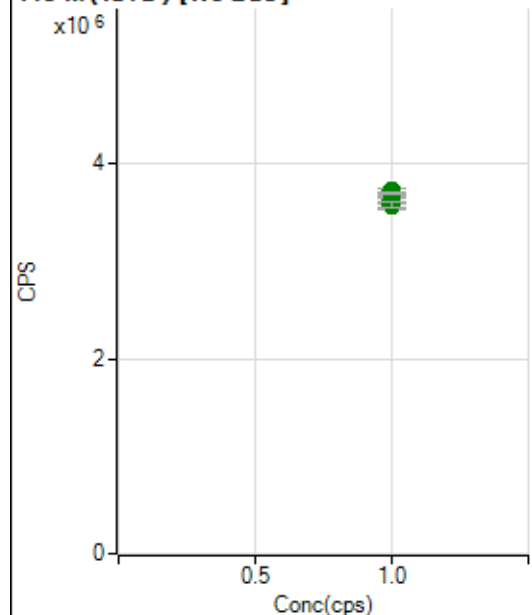
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		822127.22		P	3.8
2	☐	1.000		861937.43		P	0.6
3	☐	1.000		869425.60		P	0.8
4	☐	1.000		864778.60		P	0.2
5	☐	1.000		883735.25		P	0.3
6	☐	1.000		879220.88		P	0.5
7	☐	1.000		910160.74		P	3.9
8	☐	1.000		873630.71		P	0.4

103 Rh (ISTD) [No Gas]

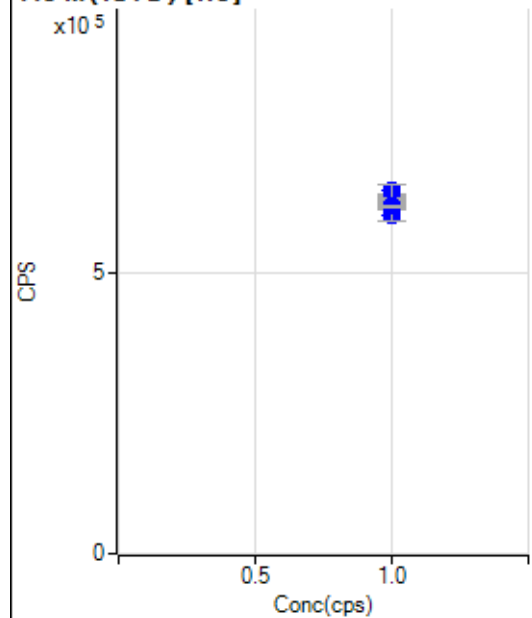
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3548780.55		A	0.9
2	☐	1.000		3563318.61		A	1.0
3	☐	1.000		3541886.97		A	2.0
4	☐	1.000		3585355.50		A	0.5
5	☐	1.000		3685950.69		A	1.1
6	☐	1.000		3568015.19		A	1.3
7	☐	1.000		3675604.77		A	0.6
8	☐	1.000		3435900.30		A	1.8

103 Rh (ISTD) [He]

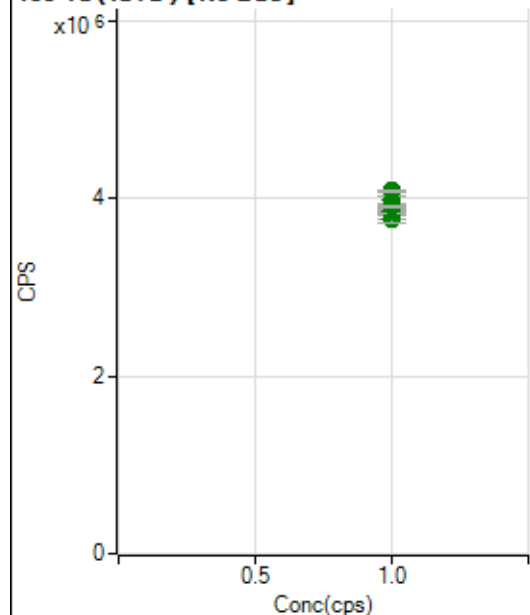
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1598668.24		A	2.8
2	☐	1.000		1661967.72		A	0.7
3	☐	1.000		1686655.11		A	0.7
4	☐	1.000		1667988.01		A	1.4
5	☐	1.000		1713514.19		A	1.2
6	☐	1.000		1679125.60		A	1.2
7	☐	1.000		1729651.85		A	4.1
8	☐	1.000		1632149.59		A	0.8

115 In (ISTD) [No Gas]

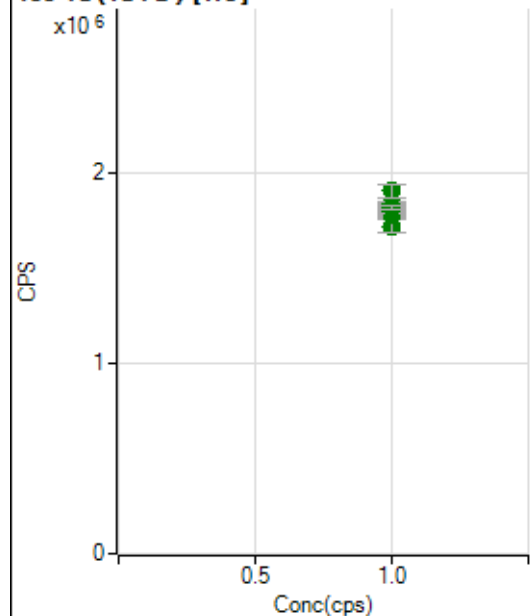
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3596057.58		A	0.6
2	☐	1.000		3573231.73		A	1.7
3	☐	1.000		3604923.88		A	3.1
4	☐	1.000		3623298.16		A	1.3
5	☐	1.000		3724328.12		A	1.4
6	☐	1.000		3639711.12		A	1.8
7	☐	1.000		3701988.60		A	0.9
8	☐	1.000		3583277.67		A	1.3

115 In (ISTD) [He]

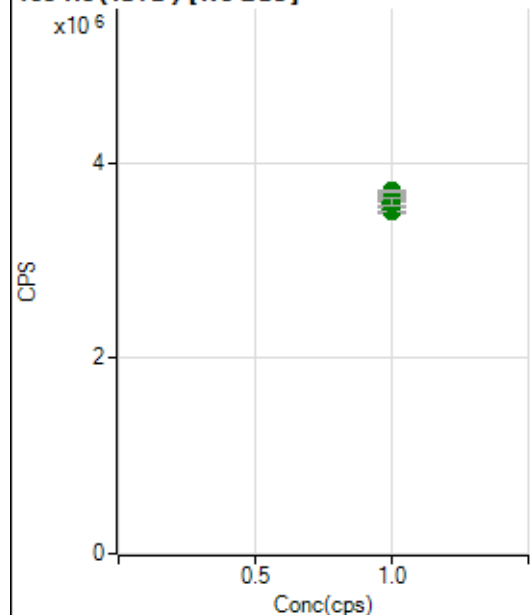
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		600967.87		P	3.4
2	☐	1.000		624629.92		P	0.3
3	☐	1.000		630641.59		P	0.4
4	☐	1.000		628923.12		P	0.2
5	☐	1.000		638563.62		P	0.6
6	☐	1.000		631291.67		P	0.6
7	☐	1.000		645912.38		P	3.8
8	☐	1.000		618801.86		P	0.4

159 Tb (ISTD) [No Gas]

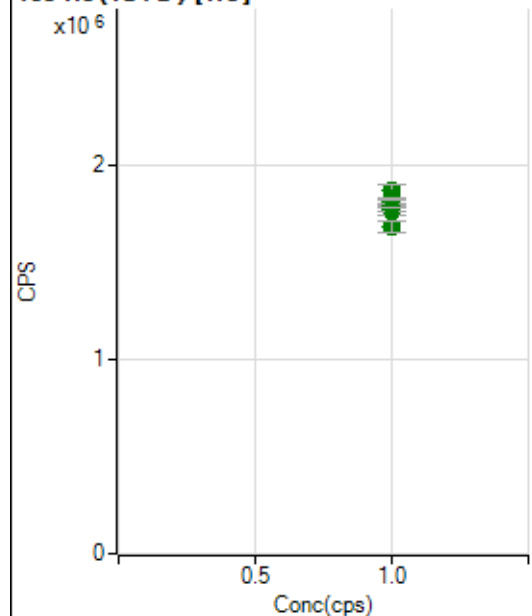
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3824503.66		A	0.3
2	☐	1.000		3811247.58		A	2.3
3	☐	1.000		3769049.52		A	2.1
4	☐	1.000		3854259.80		A	0.8
5	☐	1.000		3993753.62		A	2.0
6	☐	1.000		3911870.81		A	1.3
7	☐	1.000		4087306.09		A	0.8
8	☐	1.000		3910783.41		A	0.9

159 Tb (ISTD) [He]

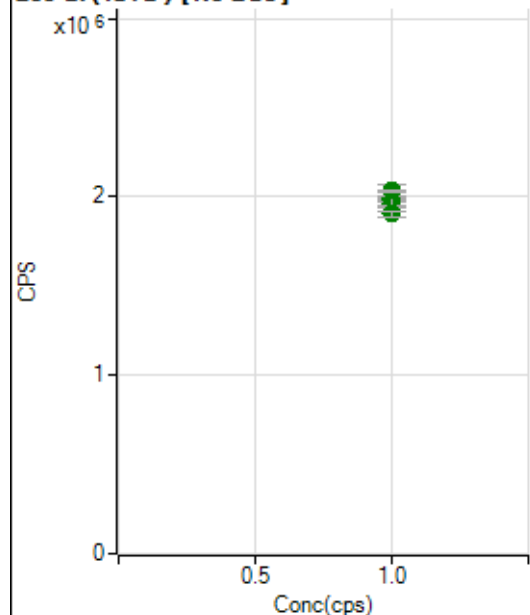
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1721158.60		A	4.1
2	☐	1.000		1779171.24		A	1.6
3	☐	1.000		1788680.72		A	0.8
4	☐	1.000		1799738.76		A	1.7
5	☐	1.000		1839776.50		A	0.5
6	☐	1.000		1839757.21		A	1.0
7	☐	1.000		1907075.87		A	3.7
8	☐	1.000		1821664.16		A	1.1

165 Ho (ISTD) [No Gas]

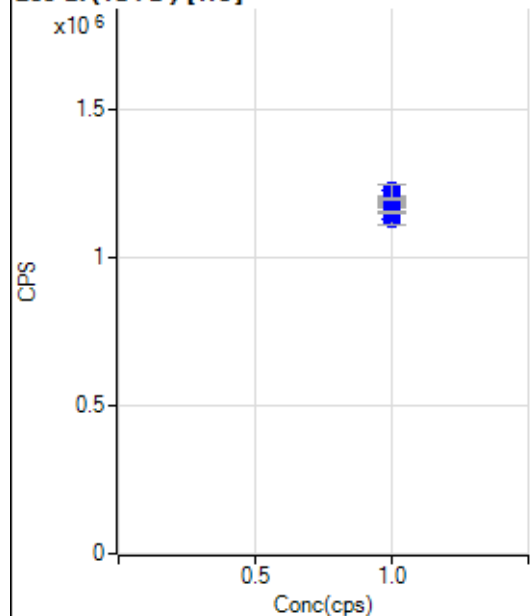
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3508641.36		A	1.6
2	☐	1.000		3517046.60		A	1.1
3	☐	1.000		3570374.47		A	1.9
4	☐	1.000		3578762.02		A	1.1
5	☐	1.000		3673259.20		A	0.7
6	☐	1.000		3644863.32		A	1.8
7	☐	1.000		3709469.22		A	0.6
8	☐	1.000		3593958.89		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1682979.51		A	3.8
2	☐	1.000		1762389.35		A	1.9
3	☐	1.000		1809750.91		A	1.5
4	☐	1.000		1774802.94		A	0.9
5	☐	1.000		1810234.31		A	1.2
6	☐	1.000		1795855.79		A	1.3
7	☐	1.000		1868470.29		A	3.5
8	☐	1.000		1830955.94		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1966111.34		A	2.1
2	☐	1.000		1979326.06		A	1.0
3	☐	1.000		1975014.10		A	3.2
4	☐	1.000		1992374.99		A	1.6
5	☐	1.000		2032736.55		A	3.0
6	☐	1.000		1979064.80		A	2.4
7	☐	1.000		2031088.81		A	0.8
8	☐	1.000		1904332.92		A	2.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1130758.71		P	3.9
2	☐	1.000		1173455.37		P	1.0
3	☐	1.000		1193221.41		P	0.7
4	☐	1.000		1183278.16		P	0.1
5	☐	1.000		1207170.06		P	0.6
6	☐	1.000		1194903.69		P	0.2
7	☐	1.000		1226382.46		P	3.6
8	☐	1.000		1153157.94		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8123020MS.b
Acq. Date-Time 2020-12-30 12:49:00
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		3032	30319.10			1.586	5.000
24		37112	371121.79			2.242	5.000
25		4953	49528.10			1.396	5.000
26		5697	56973.11			1.603	5.000
59		6087	60873.85			1.756	5.000
113		2690	26895.44			1.573	5.000
115		8853	88532.02			1.545	5.000
206		2725	27254.80			2.198	5.000
207		2265	22650.02			2.450	5.000
208		5494	54943.70			1.650	5.000
220		1	11.40			29.650	

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

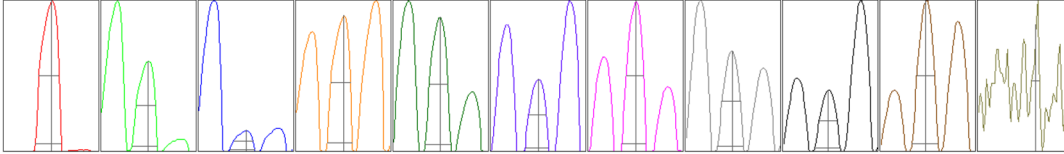
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	3058	2989	2974	3053	3086
24	37151	36628	35986	38019	37777
25	4936	4930	4858	5031	5010
26	5727	5655	5559	5757	5787
59	6092	6060	5925	6156	6205
113	2698	2655	2639	2715	2741
115	8932	8844	8619	8925	8946
206	2750	2711	2629	2752	2785
207	2269	2253	2182	2286	2335
208	5508	5450	5364	5556	5594

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	2

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5138.84	9.05	8.90 - 9.10	
24	63772.43	24.00	23.90 - 24.10	
25	8532.23	25.05	24.90 - 25.10	
26	9678.10	26.05	25.90 - 26.10	
59	10978.57	59.00	58.90 - 59.10	
113	5076.81	113.05	112.90 - 113.10	
115	16815.15	115.05	114.90 - 115.10	
206	4970.71	206.00	205.90 - 206.10	
207	4125.86	206.95	206.90 - 207.10	
208	10238.98	207.95	207.90 - 208.10	
220	1.70	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.821	0.900	
24	0.62	0.793	0.900	
25	0.61	0.789	0.900	
26	0.63	0.787	0.900	
59	0.58	0.815	0.900	
113	0.55	0.736	0.900	
115	0.54	0.770	0.900	
206	0.58	0.818	0.900	
207	0.57	0.796	0.900	
208	0.56	0.822	0.900	
220	0.26			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.7 V	Deflect	15.0 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1486	14858.78			0.695	
89		50258	502584.38			0.750	
205		2475	24753.36			1.767	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1492	1499	1488	1479	1473
89	50620	50608	50311	49772	49982
205	2521	2496	2496	2452	2411

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.7 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V