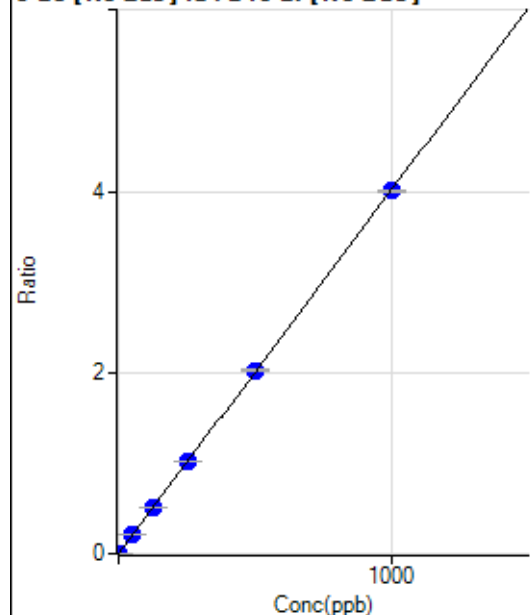


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091020MS.b\
Analysis File: P8091020MS.batch.bin
DA Date-Time: 2020-09-10 23:27:13
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-10 13:23:00
2	004CALS.d	S02	2020-09-10 13:26:24
3	005CALS.d	S03	2020-09-10 13:29:45
4	006CALS.d	S04	2020-09-10 13:33:09
5	007CALS.d	S05	2020-09-10 13:36:26
6	008CALS.d	S06	2020-09-10 13:39:39
7	009CALS.d	S07	2020-09-10 13:42:43
8	010CALS.d	S08	2020-09-10 13:45:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.32	0.0004	P	24.5
2	☐	1.000	0.962	775.87	0.0042	P	2.1
3	☐	50.000	51.421	38456.88	0.2069	P	1.2
4	☐	125.000	128.298	96457.00	0.5155	P	1.5
5	☐	250.000	253.284	192247.75	1.0174	P	0.2
6	☐	500.000	502.756	381644.08	2.0192	P	0.9
7	☐	1000.000	997.318	771817.25	4.0050	P	0.8
8	☐			220.62	0.0012	P	23.7

$$y = 0.0040 * x + 3.7637E-004$$

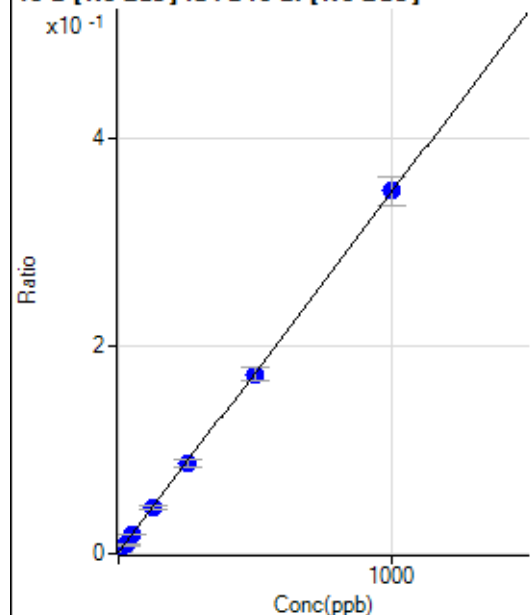
$$R = 1.0000$$

$$DL = 0.06894$$

$$BEC = 0.09373$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	182.63	0.0010	P	12.4
2	☐	25.000	22.053	1584.44	0.0087	P	9.6
3	☐	50.000	50.084	3417.74	0.0184	P	6.8
4	☐	125.000	123.976	8243.37	0.0440	P	8.0
5	☐	250.000	246.168	16339.90	0.0865	P	8.5
6	☐	500.000	495.255	32697.82	0.1730	P	7.4
7	☐	1000.000	1003.528	67379.06	0.3495	P	8.1
8	☐			10134.21	0.0529	P	13.8

$$y = 3.4725E-004 * x + 9.9250E-004$$

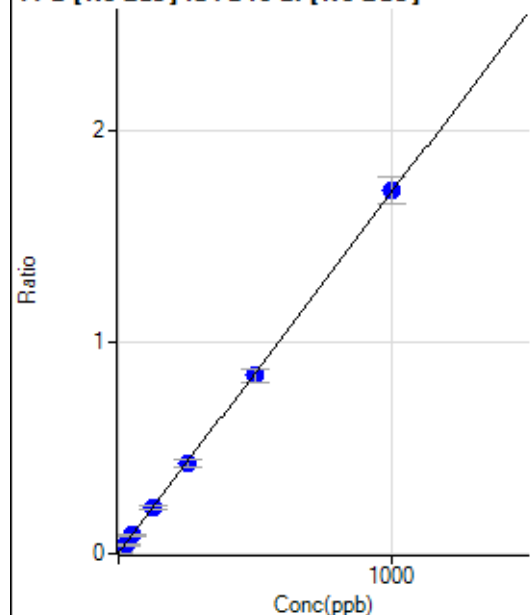
$$R = 1.0000$$

$$DL = 1.066$$

$$BEC = 2.858$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	807.87	0.0044	P	7.4
2	☐	25.000	21.554	7513.12	0.0410	P	8.1
3	☐	50.000	49.886	16578.12	0.0892	P	9.7
4	☐	125.000	123.590	40135.53	0.2144	P	9.0
5	☐	250.000	247.817	80418.42	0.4256	P	8.5
6	☐	500.000	491.802	158843.77	0.8403	P	8.2
7	☐	1000.000	1004.913	330150.07	1.7124	P	7.4
8	☐			49233.47	0.2569	P	12.2

$$y = 0.0017 * x + 0.0044$$

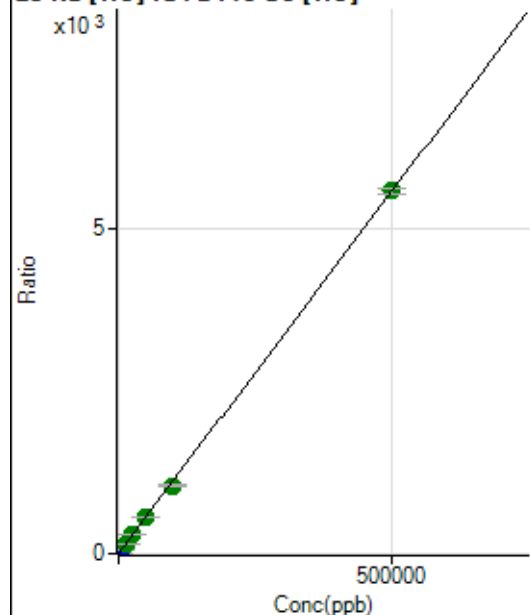
$$R = 0.9999$$

$$DL = 0.5756$$

$$BEC = 2.582$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41378.70	3.6871	P	3.4
2	☐	500.000	478.046	103441.09	9.0113	P	4.2
3	☐	5000.000	5416.359	732266.16	64.0113	P	2.0
4	☐	12500.000	13349.935	1745430.49	152.3708	A	1.1
5	☐	25000.000	24988.474	3358968.02	281.9941	A	0.5
6	☐	50000.000	49566.914	6628334.22	555.7343	A	1.9
7	☐	100000.00	93997.421	13251072.87	1,050.5752	A	0.5
8	☐	500000.00	501219.01	62976944.46	5,585.9703	A	1.5

$$y = 0.0111 * x + 3.6871$$

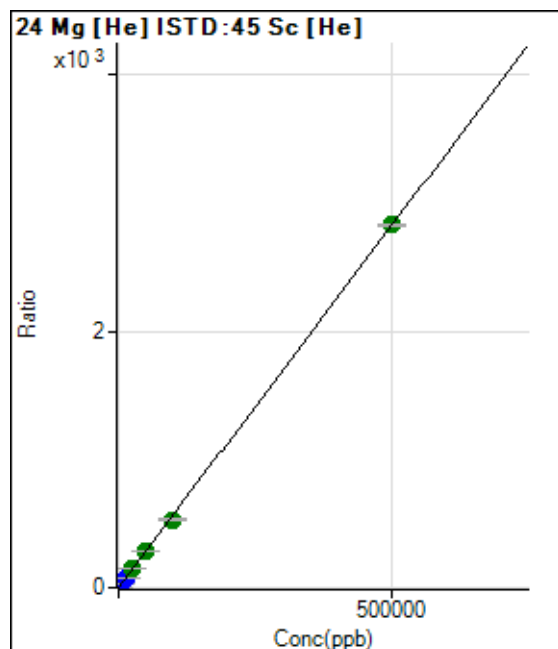
$$R = 0.9999$$

$$DL = 33.67$$

$$BEC = 331.1$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	547.25	0.0488	P	17.3
2	☐	500.000	490.836	32361.54	2.8187	P	3.4
3	☐	5000.000	5478.661	354228.44	30.9661	P	2.1
4	☐	12500.000	13537.742	875679.36	76.4453	P	1.5
5	☐	25000.000	25600.211	1721461.98	144.5166	A	2.1
6	☐	50000.000	49737.532	3348388.05	280.7289	A	1.9
7	☐	100000.00	94186.740	6704534.22	531.5658	A	0.6
8	☐	500000.00	501128.16	31884838.91	2,828.0282	A	0.8

$$y = 0.0056 * x + 0.0488$$

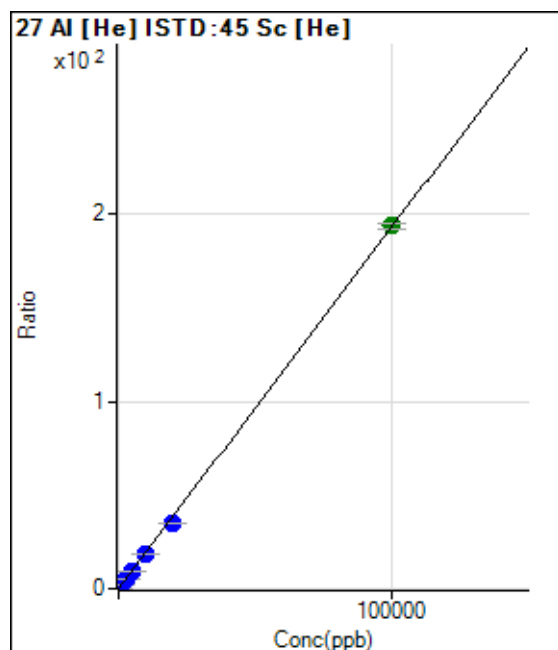
$$R = 0.9999$$

$$DL = 4.49$$

$$BEC = 8.647$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	782.43	0.0697	P	4.4
2	☐	20.000	19.196	1225.73	0.1068	P	4.2
3	☐	1000.000	1018.972	23296.90	2.0365	P	2.0
4	☐	2500.000	2539.185	56941.60	4.9709	P	1.5
5	☐	5000.000	4852.500	112397.20	9.4360	P	1.2
6	☐	10000.000	9505.641	219680.32	18.4175	P	1.5
7	☐	20000.000	18084.780	441144.25	34.9769	P	0.8
8	☐	100000.00	100438.68	2186455.58	193.9363	A	1.3

$$y = 0.0019 * x + 0.0697$$

$$R = 0.9998$$

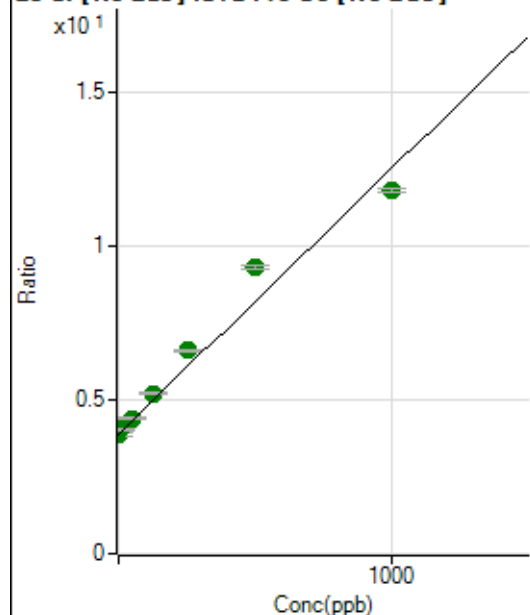
$$DL = 4.774$$

$$BEC = 36.12$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	981401.11	3.9018	A	3.0
2	☐	10.000	17.132	1007796.66	4.0497	A	0.9
3	☐	50.000	56.547	1108619.96	4.3900	A	1.4
4	☐	125.000	153.052	1316261.74	5.2232	A	1.6
5	☐	250.000	313.304	1687366.80	6.6067	A	1.6
6	☐	500.000	629.789	2392190.09	9.3392	A	1.4
7	☐	1000.000	915.374	3062040.87	11.8048	A	1.2
8	☐			1783366.64	7.4014	A	7.4

$$y = 0.0086 * x + 3.9018$$

$$R = 0.9840$$

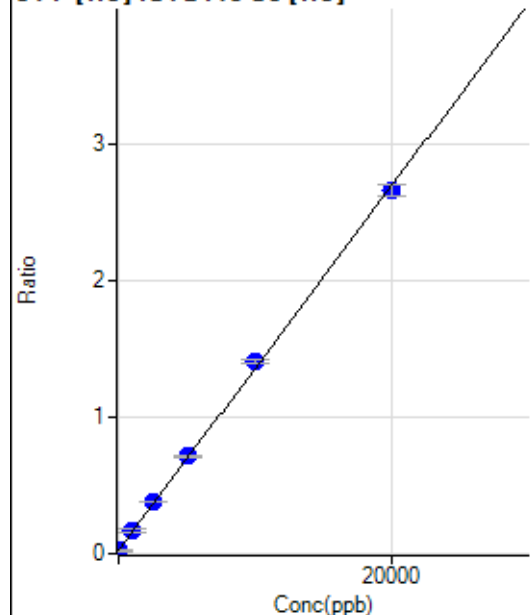
$$DL = 40.4$$

$$BEC = 451.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	10.636	291.68	0.0260	P	6.4
2	☐	0.000	-10.636	266.68	0.0232	P	20.8
3	☐	1000.000	1079.255	1925.18	0.1685	P	13.2
4	☐	2500.000	2685.627	4384.12	0.3827	P	1.7
5	☐	5000.000	5150.022	8474.90	0.7114	P	3.5
6	☐	10000.000	10406.777	16846.24	1.4124	P	2.0
7	☐	20000.000	19731.940	33492.13	2.6560	P	3.2
8	☐			288.90	0.0256	P	15.5

$$y = 1.3336E-004 * x + 0.0246$$

$$R = 0.9996$$

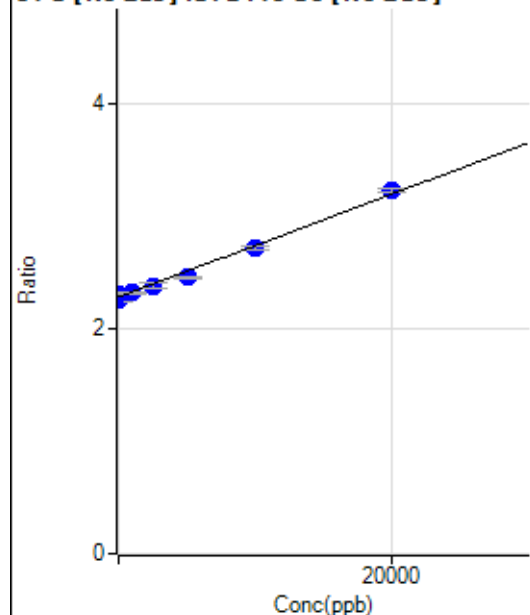
$$DL = 72.93$$

$$BEC = 184.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-523.802	567098.70	2.2546	P	2.3
2	☐	0.000	523.802	572933.46	2.3024	P	1.3
3	☐	1000.000	850.069	585208.72	2.3173	P	0.9
4	☐	2500.000	2079.589	598038.31	2.3733	P	2.2
5	☐	5000.000	3751.103	625582.64	2.4496	P	0.5
6	☐	10000.000	9522.082	694660.56	2.7127	P	1.5
7	☐	20000.000	20611.231	834671.95	3.2183	P	1.2
8	☐			548268.98	2.2741	P	4.8

$$y = 4.5595E-005 * x + 2.2785$$

$$R = 0.9967$$

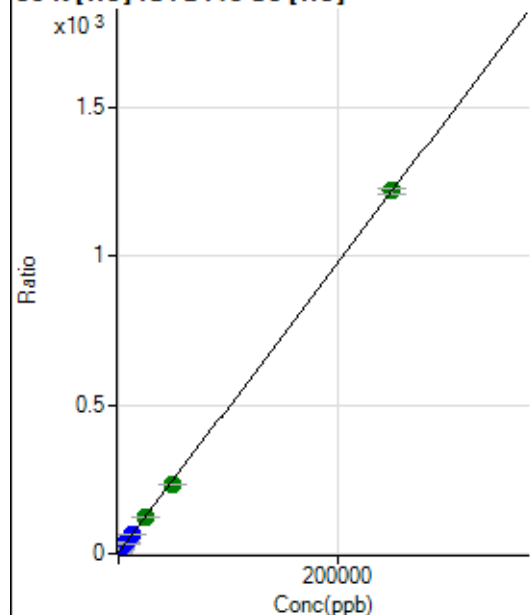
$$DL = 2702$$

$$BEC = 4.997E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36454.94	3.2481	P	3.8
2	☐	500.000	468.542	63347.81	5.5203	P	5.6
3	☐	2500.000	2670.145	185251.20	16.1972	P	3.4
4	☐	6250.000	6660.970	407231.51	35.5512	P	1.7
5	☐	12500.000	12663.066	770179.10	64.6590	P	0.9
6	☐	25000.000	24729.815	1469176.67	123.1779	A	1.8
7	☐	50000.000	46802.535	2903818.73	230.2219	A	0.3
8	☐	250000.00	250646.44	13740112.63	1,218.7847	A	1.6

$$y = 0.0048 * x + 3.2481$$

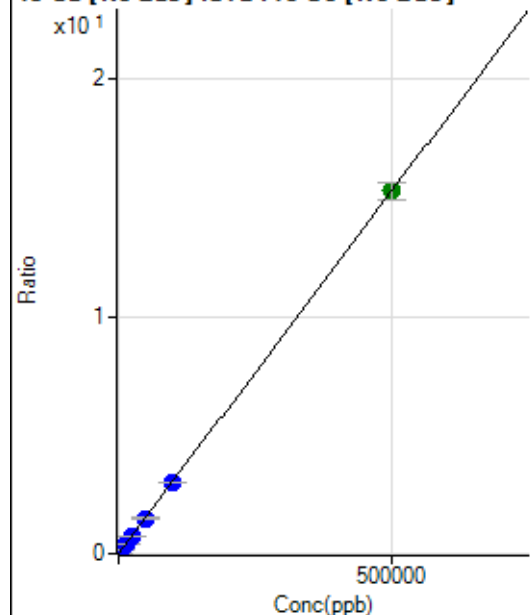
$$R = 0.9999$$

$$DL = 76.59$$

$$BEC = 669.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	335.38	0.0013	P	3.0
2	☐	500.000	465.495	3869.21	0.0155	P	1.9
3	☐	5000.000	4954.940	38547.84	0.1526	P	0.5
4	☐	12500.000	12352.569	95394.09	0.3785	P	1.2
5	☐	25000.000	24489.621	191318.95	0.7491	P	0.7
6	☐	50000.000	48821.131	382113.00	1.4921	P	1.3
7	☐	100000.00	97650.132	773734.42	2.9832	P	0.6
8	☐	500000.00	500617.55	3685893.38	15.2881	A	4.7

$$y = 3.0536\text{E-}005 * x + 0.0013$$

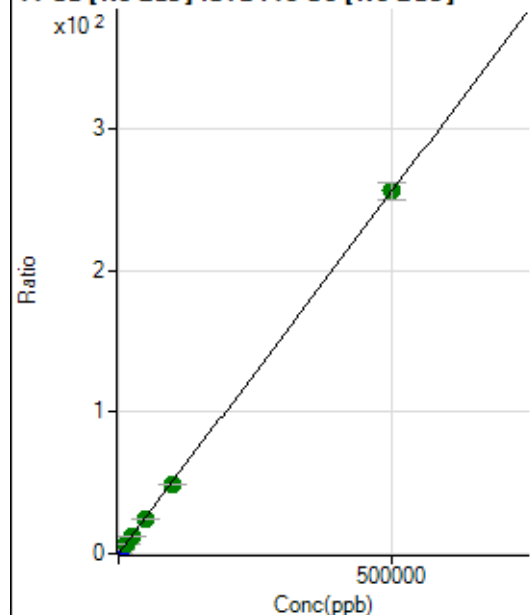
$$R = 1.0000$$

$$DL = 3.938$$

$$BEC = 43.67$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	26440.69	0.1051	P	3.1
2	☐	500.000	468.513	85694.60	0.3444	P	1.3
3	☐	5000.000	4967.414	667137.04	2.6417	P	0.9
4	☐	12500.000	12500.551	1634796.12	6.4884	A	3.0
5	☐	25000.000	24355.337	3203174.11	12.5420	A	1.0
6	☐	50000.000	48156.142	6324734.84	24.6957	A	1.3
7	☐	100000.00	95902.086	12728876.83	49.0767	A	0.4
8	☐	500000.00	501036.54	61705650.23	255.9553	A	5.0

$$y = 5.1064\text{E-}004 * x + 0.1051$$

$$R = 1.0000$$

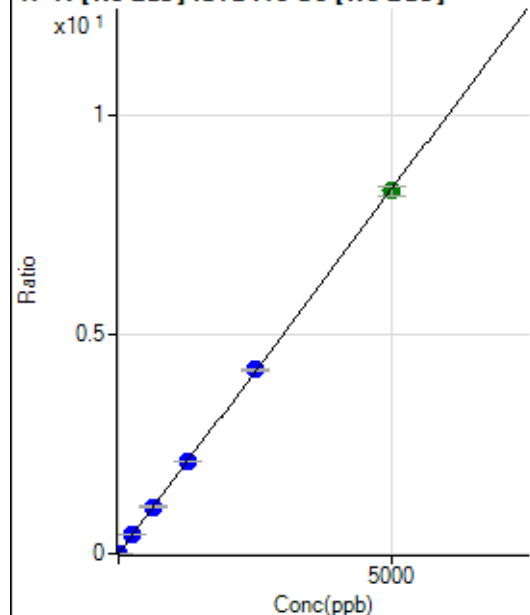
$$DL = 18.93$$

$$BEC = 205.9$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	411.13	0.0016	P	11.2
2	☐	5.000	4.865	2416.94	0.0097	P	11.0
3	☐	250.000	255.974	107629.64	0.4262	P	1.1
4	☐	625.000	643.451	269358.79	1.0689	P	1.5
5	☐	1250.000	1264.931	536213.96	2.0997	P	1.0
6	☐	2500.000	2528.609	1074538.06	4.1956	P	0.8
7	☐	5000.000	4979.358	2142233.12	8.2605	A	2.9
8	☐			650.03	0.0027	P	11.9

$$y = 0.0017 * x + 0.0016$$

$$R = 1.0000$$

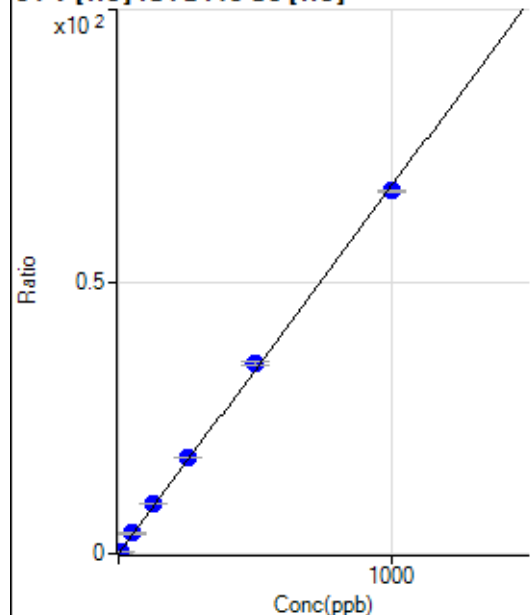
$$DL = 0.3293$$

$$BEC = 0.9835$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	21.11	0.0019	P	10.5
2	☐	5.000	5.050	3942.80	0.3435	P	4.0
3	☐	50.000	55.486	42954.18	3.7550	P	2.2
4	☐	125.000	137.232	106351.41	9.2843	P	1.4
5	☐	250.000	260.689	210060.31	17.6351	P	0.7
6	☐	500.000	516.977	417111.85	34.9706	P	1.7
7	☐	1000.000	987.036	842072.26	66.7658	P	0.9
8	☐			133.34	0.0118	P	8.3

$$y = 0.0676 * x + 0.0019$$

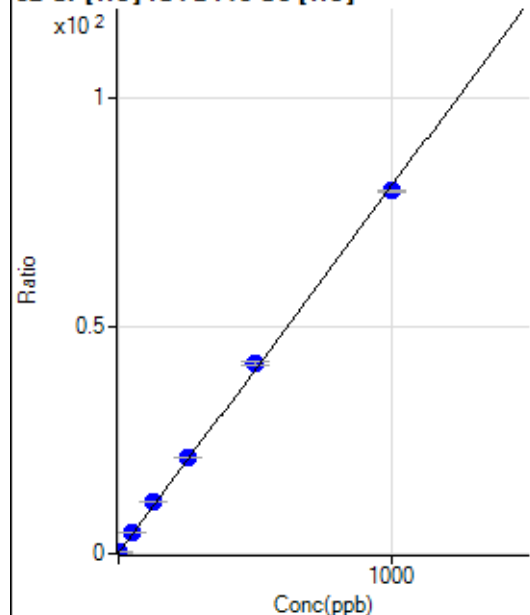
$$R = 0.9997$$

$$DL = 0.008738$$

$$BEC = 0.02782$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1284.51	0.1144	P	4.8
2	☐	2.000	2.011	3172.60	0.2764	P	3.8
3	☐	50.000	55.777	52717.93	4.6086	P	2.1
4	☐	125.000	139.202	129789.02	11.3304	P	1.4
5	☐	250.000	261.520	252358.15	21.1860	P	0.3
6	☐	500.000	516.466	497731.13	41.7279	P	1.3
7	☐	1000.000	986.823	1004296.58	79.6263	P	0.6
8	☐			2337.99	0.2074	P	2.1

$$y = 0.0806 * x + 0.1144$$

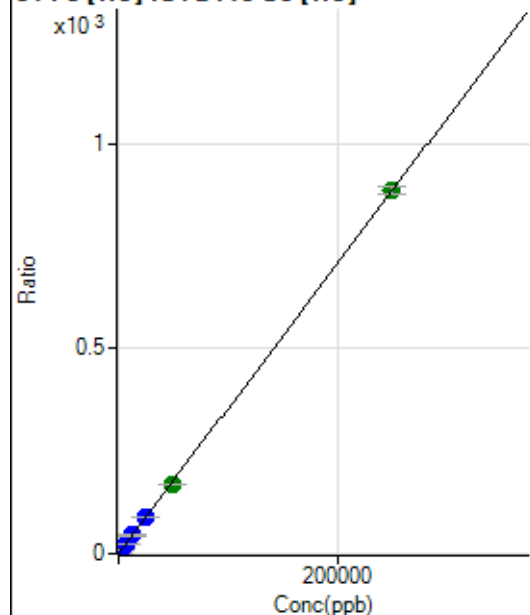
$$R = 0.9997$$

$$DL = 0.204$$

$$BEC = 1.419$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	453.72	0.0404	P	9.6
2	☐	50.000	52.782	2603.99	0.2267	P	8.4
3	☐	2500.000	2688.319	108965.66	9.5258	P	2.3
4	☐	6250.000	6680.321	270469.93	23.6111	P	1.4
5	☐	12500.000	12649.930	532133.41	44.6742	P	1.0
6	☐	25000.000	24930.442	1049639.80	88.0045	P	1.9
7	☐	50000.000	47489.605	2113776.09	167.6018	A	1.2
8	☐	250000.00	250488.89	9963970.48	883.8603	A	2.1

$$y = 0.0035 * x + 0.0404$$

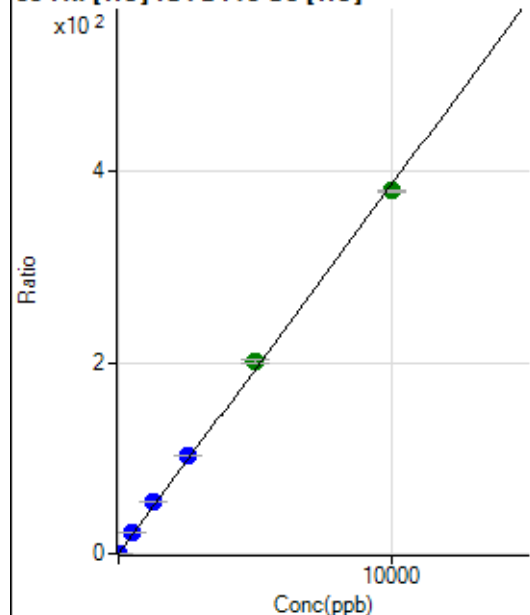
$$R = 0.9999$$

$$DL = 3.298$$

$$BEC = 11.46$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	90.00	0.0080	P	13.0
2	☐	1.000	0.963	518.90	0.0452	P	6.2
3	☐	500.000	566.712	250131.08	21.8662	P	2.1
4	☐	1250.000	1398.169	617832.67	53.9355	P	1.3
5	☐	2500.000	2645.774	1215653.13	102.0557	P	0.7
6	☐	5000.000	5215.060	2399218.31	201.1533	A	1.8
7	☐	10000.000	9834.170	4784429.30	379.3127	A	0.6
8	☐			3104.82	0.2753	P	2.0

$$y = 0.0386 * x + 0.0080$$

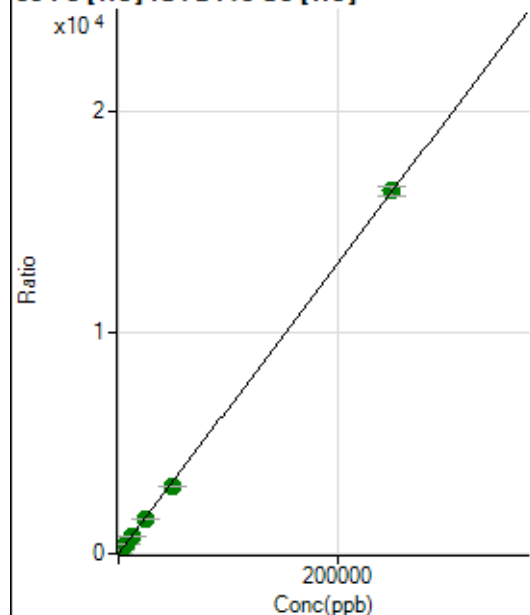
$$R = 0.9995$$

$$DL = 0.0809$$

$$BEC = 0.2082$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3496.80	0.3113	P	2.1
2	☐	50.000	47.881	39569.86	3.4465	P	3.6
3	☐	2500.000	2633.375	1975955.09	172.7395	A	2.3
4	☐	6250.000	6429.396	4826097.79	421.2953	A	1.4
5	☐	12500.000	12133.487	9467273.82	794.7878	A	0.1
6	☐	25000.000	24151.588	18866176.35	1,581.7090	A	1.4
7	☐	50000.000	46064.006	38045942.05	3,016.4903	A	0.7
8	☐	250000.00	250884.54	185190035.6	16,427.729	A	2.3

$$y = 0.0655 * x + 0.3113$$

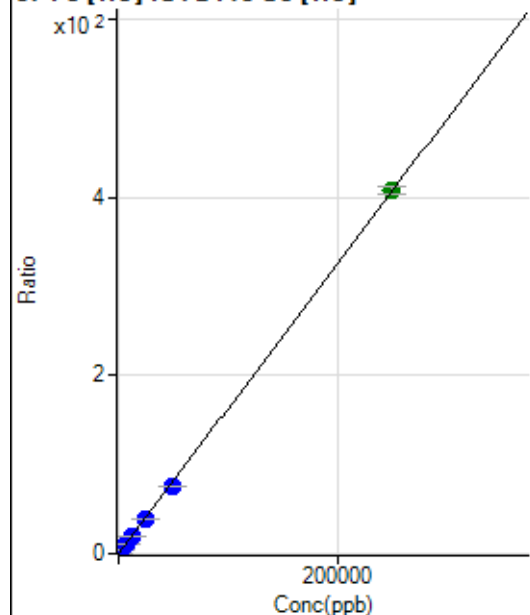
$$R = 0.9999$$

$$DL = 0.2982$$

$$BEC = 4.755$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	212.97	0.0190	P	20.9
2	☐	50.000	46.136	1075.99	0.0939	P	12.3
3	☐	2500.000	2598.571	48463.82	4.2365	P	2.1
4	☐	6250.000	6450.205	120140.93	10.4878	P	1.0
5	☐	12500.000	12280.742	237645.51	19.9508	P	0.3
6	☐	25000.000	24329.818	471232.86	39.5066	P	1.3
7	☐	50000.000	46194.736	945829.25	74.9935	P	1.0
8	☐	250000.00	250833.04	4589477.48	407.1237	A	2.2

$$y = 0.0016 * x + 0.0190$$

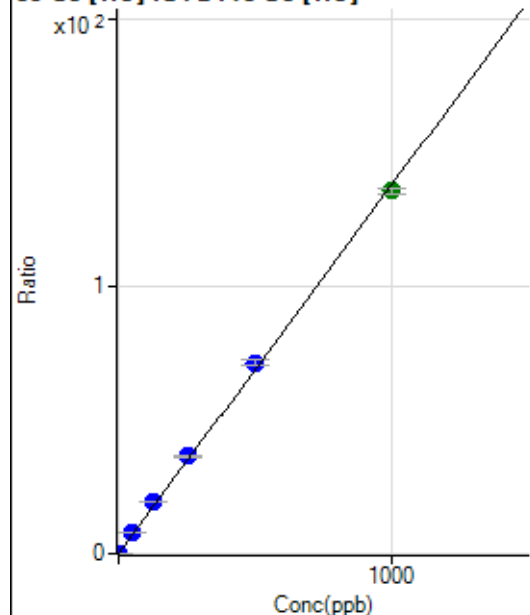
$$R = 0.9999$$

$$DL = 7.346$$

$$BEC = 11.71$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	70.00	0.0062	P	29.1
2	☐	1.000	1.044	1726.79	0.1504	P	2.8
3	☐	50.000	56.449	89198.16	7.7976	P	2.1
4	☐	125.000	139.792	221101.20	19.3011	P	1.0
5	☐	250.000	264.308	434617.42	36.4874	P	0.8
6	☐	500.000	519.129	854668.35	71.6591	P	2.1
7	☐	1000.000	984.687	1714093.25	135.9178	A	1.8
8	☐			2843.65	0.2522	P	1.6

$$y = 0.1380 * x + 0.0062$$

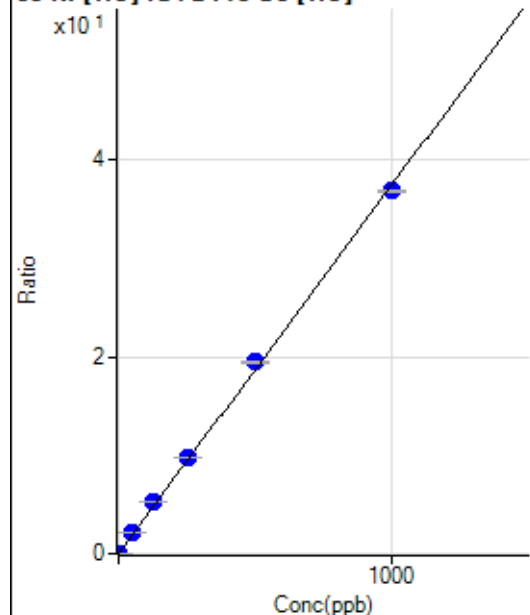
$$R = 0.9996$$

$$DL = 0.03949$$

$$BEC = 0.04519$$

Weight: <None>

Min Conc: 0

⁶⁰Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	78.89	0.0070	P	17.8
2	☐	1.000	0.981	501.13	0.0437	P	8.5
3	☐	50.000	56.856	24393.24	2.1318	P	0.2
4	☐	125.000	140.080	60046.27	5.2420	P	1.7
5	☐	250.000	261.524	116497.76	9.7804	P	1.1
6	☐	500.000	519.593	231682.21	19.4247	P	1.9
7	☐	1000.000	985.095	464431.20	36.8210	P	0.4
8	☐			535.57	0.0475	P	5.6

$$y = 0.0374 * x + 0.0070$$

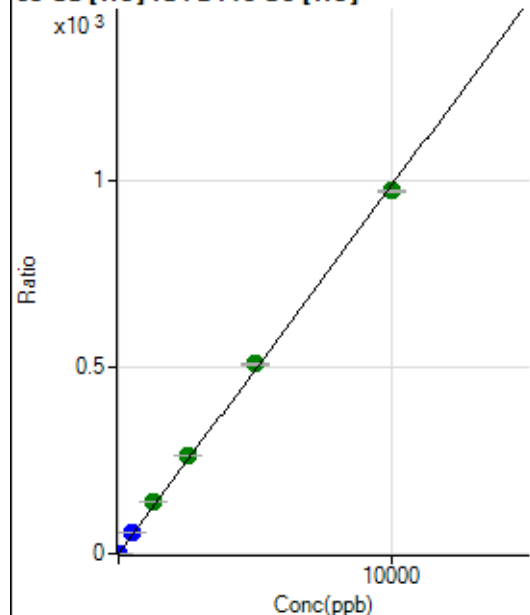
$$R = 0.9996$$

$$DL = 0.09998$$

$$BEC = 0.1876$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	397.21	0.0354	P	6.9
2	☐	2.000	2.078	2765.68	0.2409	P	3.5
3	☐	500.000	568.597	643562.49	56.2585	P	2.1
4	☐	1250.000	1411.714	1599518.97	139.6262	A	0.3
5	☐	2500.000	2665.575	3140138.38	263.6084	A	1.3
6	☐	5000.000	5151.929	6077206.23	509.4600	A	0.9
7	☐	10000.000	9858.998	12295757.61	974.8967	A	0.9
8	☐			4432.58	0.3934	P	6.2

$$y = 0.0989 * x + 0.0354$$

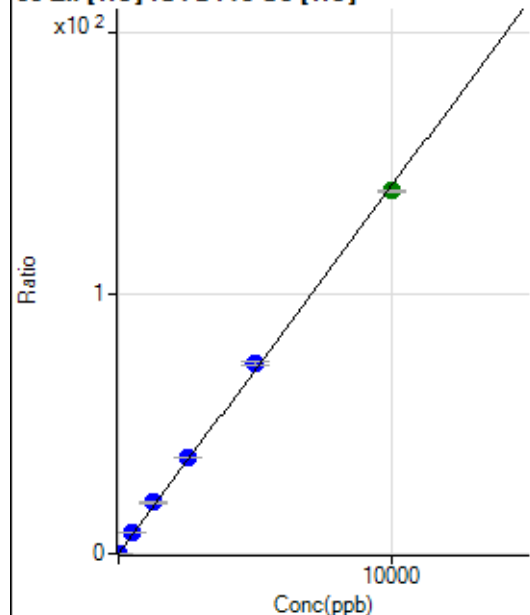
$$R = 0.9996$$

$$DL = 0.07416$$

$$BEC = 0.3577$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.44	0.0084	P	24.9
2	☐	2.000	1.725	376.68	0.0328	P	4.3
3	☐	500.000	565.714	91551.05	8.0028	P	2.3
4	☐	1250.000	1390.172	225132.09	19.6535	P	1.2
5	☐	2500.000	2622.041	441452.82	37.0616	P	0.9
6	☐	5000.000	5161.304	870020.53	72.9450	P	2.0
7	☐	10000.000	9868.030	1758929.09	139.4577	A	0.8
8	☐			1972.38	0.1749	P	0.9

$$y = 0.0141 * x + 0.0084$$

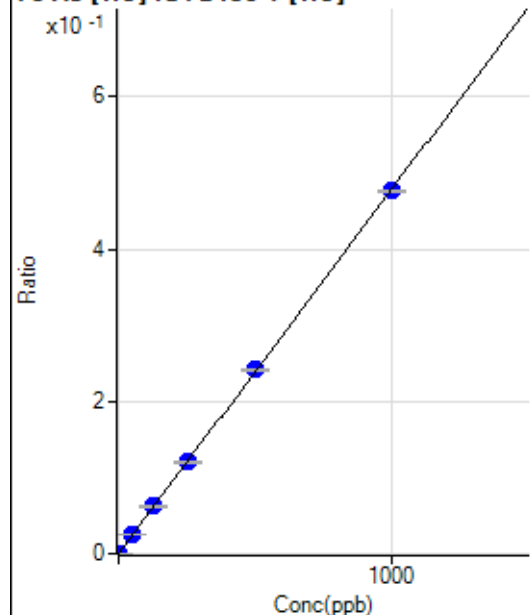
$$R = 0.9997$$

$$DL = 0.4459$$

$$BEC = 0.5966$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.33	0.0000	P	19.8
2	☐	1.000	0.984	138.02	0.0005	P	6.0
3	☐	50.000	51.916	6698.61	0.0249	P	0.6
4	☐	125.000	129.332	16485.27	0.0619	P	1.6
5	☐	250.000	251.505	32581.33	0.1203	P	1.2
6	☐	500.000	505.160	64903.89	0.2415	P	1.0
7	☐	1000.000	996.406	130746.14	0.4763	P	0.7
8	☐			46.34	0.0002	P	9.1

$$y = 4.7795E-004 * x + 4.6534E-005$$

$$R = 1.0000$$

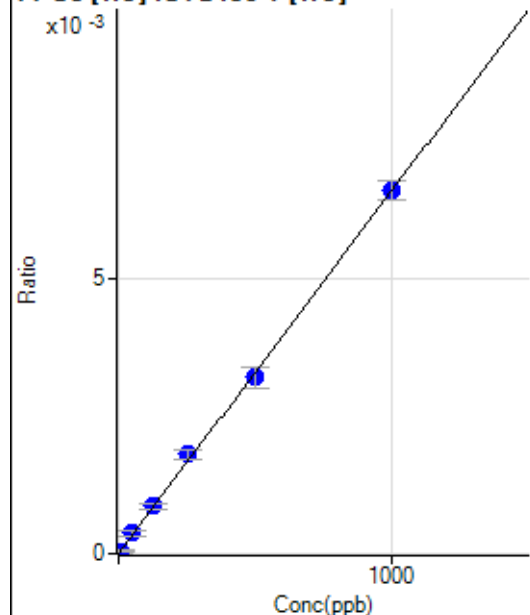
$$DL = 0.05788$$

$$BEC = 0.09736$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	6.315	12.22	0.0000	P	56.8
3	☐	50.000	55.219	98.89	0.0004	P	25.3
4	☐	125.000	129.585	228.90	0.0009	P	14.8
5	☐	250.000	273.896	490.01	0.0018	P	8.9
6	☐	500.000	485.129	860.04	0.0032	P	12.7
7	☐	1000.000	1000.621	1811.25	0.0066	P	5.4
8	☐			4.44	0.0000	P	43.5

$$y = 6.5898\text{E-}006 * x + 4.1737\text{E-}006$$

$$R = 0.9995$$

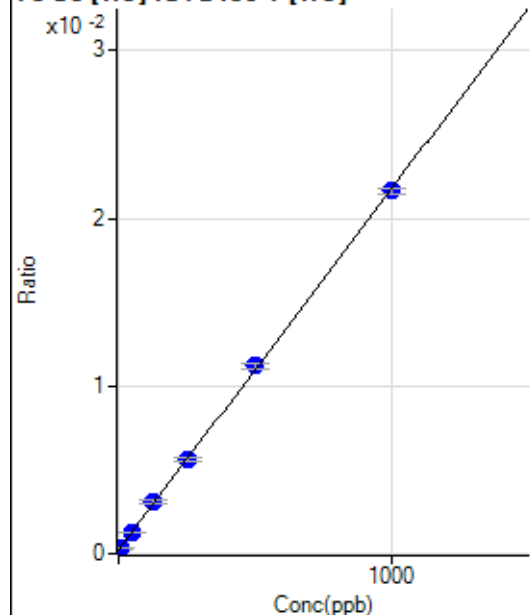
$$DL = 3.291$$

$$BEC = 0.6334$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	59.67	0.0002	P	24.5
2	☐	5.000	3.454	80.01	0.0003	P	8.0
3	☐	50.000	48.546	342.37	0.0013	P	4.5
4	☐	125.000	133.893	828.11	0.0031	P	5.8
5	☐	250.000	249.706	1517.57	0.0056	P	5.5
6	☐	500.000	509.232	3008.30	0.0112	P	3.0
7	☐	1000.000	994.426	5941.52	0.0216	P	1.3
8	☐			36.67	0.0001	P	3.2

$$y = 2.1539\text{E-}005 * x + 2.2526\text{E-}004$$

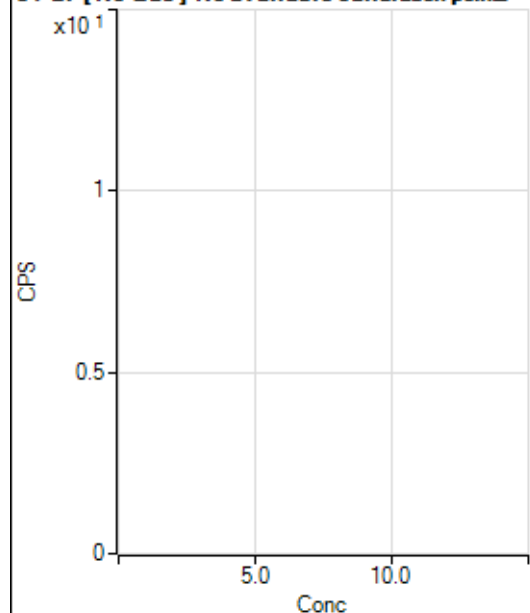
$$R = 0.9999$$

$$DL = 7.702$$

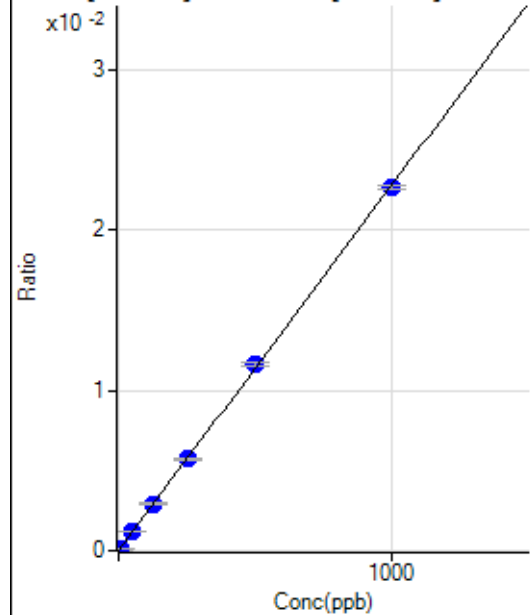
$$BEC = 10.46$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2622.96		P	3.3
2	☐			2859.91		P	3.9
3	☐			2632.98		P	1.3
4	☐			2683.02		P	2.2
5	☐			2646.33		P	4.9
6	☐			2506.15		P	4.2
7	☐			2693.05		P	9.2
8	☐			3247.06		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.95	0.0000	P	218.5
2	☐	5.000	3.979	207.37	0.0001	P	38.7
3	☐	50.000	50.784	2489.71	0.0012	P	3.7
4	☐	125.000	128.136	6249.71	0.0029	P	1.1
5	☐	250.000	251.455	12483.47	0.0057	P	1.6
6	☐	500.000	511.569	24880.91	0.0116	P	2.0
7	☐	1000.000	993.426	49616.47	0.0226	P	0.9
8	☐			-9.72	0.0000	P	-434.

$$y = 2.2747\text{E-}005 * x + 7.9991\text{E-}006$$

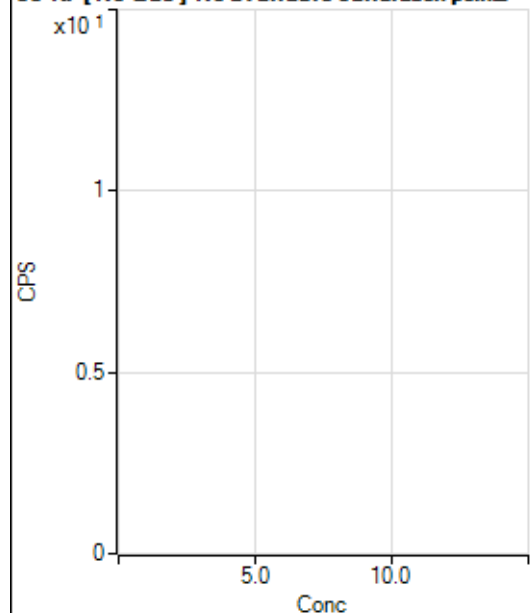
$$R = 0.9999$$

$$DL = 2.305$$

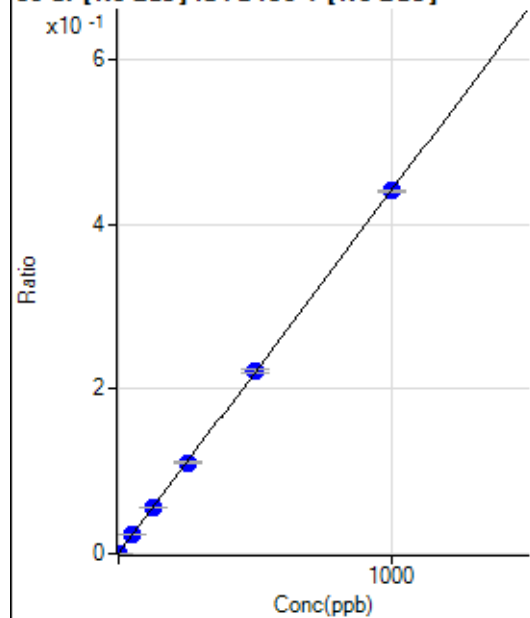
$$BEC = 0.3517$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			571.13		P	9.2
2	☐			625.58		P	10.4
3	☐			604.47		P	10.7
4	☐			562.24		P	5.8
5	☐			585.58		P	3.7
6	☐			595.58		P	4.2
7	☐			591.13		P	12.1
8	☐			575.57		P	6.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	761.16	0.0004	P	10.3
2	☐	1.000	1.162	1841.85	0.0009	P	6.5
3	☐	50.000	49.931	47918.88	0.0224	P	0.6
4	☐	125.000	128.202	121702.42	0.0569	P	0.7
5	☐	250.000	250.137	241302.27	0.1107	P	0.7
6	☐	500.000	501.781	473746.02	0.2217	P	2.2
7	☐	1000.000	998.678	967839.05	0.4409	P	0.5
8	☐			5979.22	0.0030	P	6.9

$$y = 4.4117\text{E-}004 * x + 3.5808\text{E-}004$$

$$R = 1.0000$$

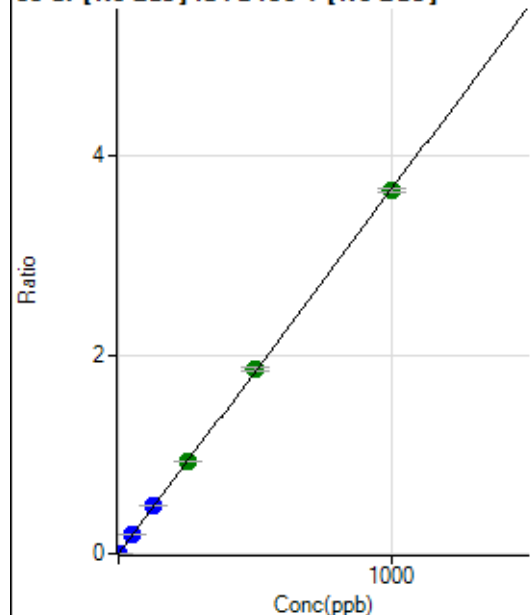
$$DL = 0.252$$

$$BEC = 0.8117$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	172.23	0.0001	P	29.5
2	☐	1.000	0.969	7696.81	0.0036	P	1.5
3	☐	50.000	52.015	408830.72	0.1910	P	1.1
4	☐	125.000	130.673	1025668.05	0.4797	P	1.5
5	☐	250.000	253.841	2030869.45	0.9318	A	1.5
6	☐	500.000	505.332	3962926.13	1.8548	A	2.5
7	☐	1000.000	995.564	8020408.69	3.6541	A	0.9
8	☐			44025.57	0.0217	P	4.0

$$y = 0.0037 * x + 8.1026E-005$$

$$R = 1.0000$$

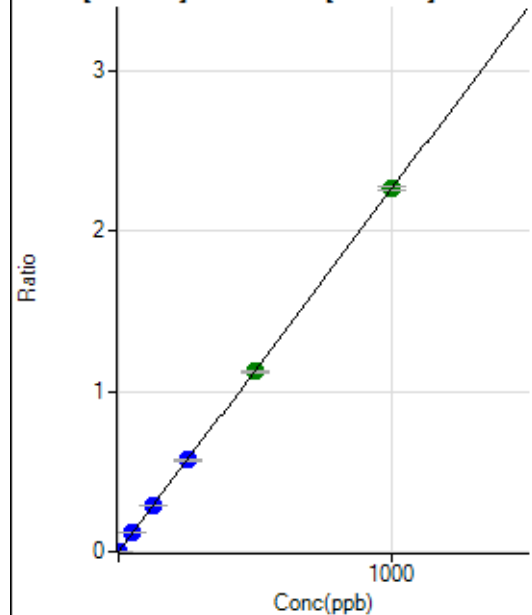
$$DL = 0.01954$$

$$BEC = 0.02208$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	84.5
2	☐	1.000	0.971	4714.83	0.0022	P	2.9
3	☐	50.000	51.515	249825.24	0.1167	P	0.9
4	☐	125.000	129.226	625932.53	0.2927	P	0.8
5	☐	250.000	252.086	1244508.93	0.5710	P	0.9
6	☐	500.000	497.625	2408606.85	1.1271	A	0.9
7	☐	1000.000	1000.062	4971830.62	2.2651	A	1.0
8	☐			1361.22	0.0007	P	8.4

$$y = 0.0023 * x + 3.0147E-005$$

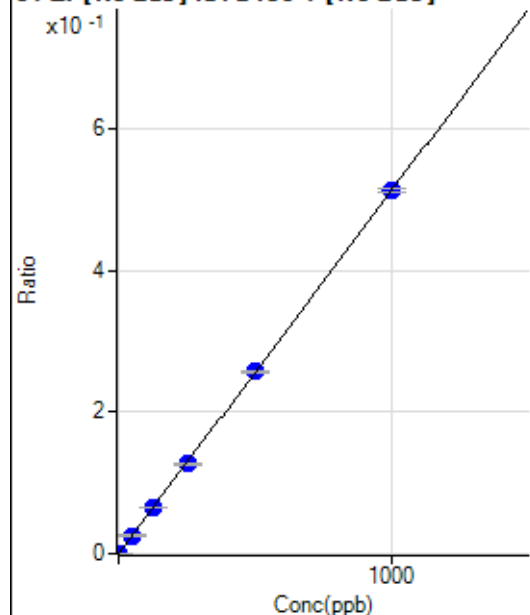
$$R = 1.0000$$

$$DL = 0.03376$$

$$BEC = 0.01331$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.2
2	☐	1.000	0.932	1013.96	0.0005	P	10.3
3	☐	50.000	50.071	54872.52	0.0256	P	2.5
4	☐	125.000	127.026	139055.50	0.0650	P	1.1
5	☐	250.000	246.627	275189.44	0.1263	P	0.5
6	☐	500.000	502.025	549210.92	0.2570	P	1.0
7	☐	1000.000	999.574	1123173.27	0.5117	P	1.0
8	☐			263.90	0.0001	P	6.7

$$y = 5.1194\text{E-}004 * x + 2.5749\text{E-}006$$

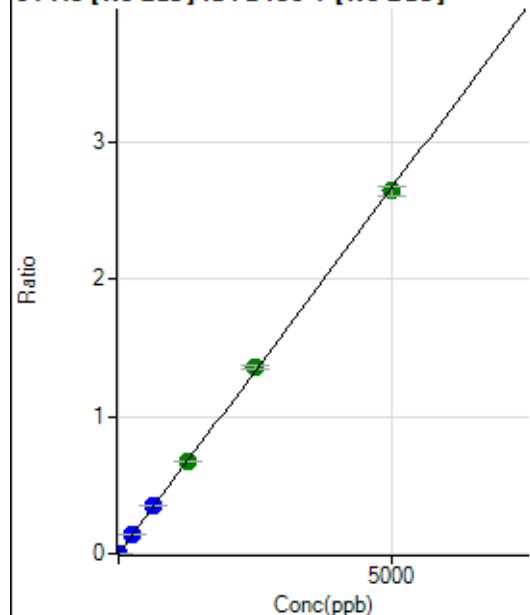
$$R = 1.0000$$

$$DL = 0.02614$$

$$BEC = 0.00503$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.22	0.0000	P	26.0
2	☐	5.000	4.809	5456.75	0.0026	P	2.6
3	☐	250.000	261.126	297205.77	0.1388	P	0.8
4	☐	625.000	653.867	743300.94	0.3476	P	1.4
5	☐	1250.000	1270.709	1472500.15	0.6756	A	0.5
6	☐	2500.000	2551.697	2898630.25	1.3566	A	1.7
7	☐	5000.000	4964.810	5792881.55	2.6395	A	2.4
8	☐			1241.77	0.0006	P	8.9

$$y = 5.3163\text{E-}004 * x + 2.2192\text{E-}005$$

$$R = 0.9999$$

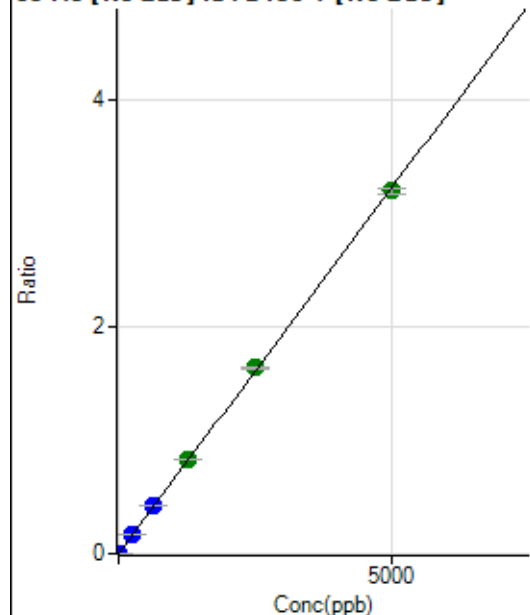
$$DL = 0.03258$$

$$BEC = 0.04174$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	88.7
2	☐	5.000	5.103	6974.16	0.0033	P	5.6
3	☐	250.000	259.318	357590.59	0.1671	P	1.4
4	☐	625.000	651.907	897945.75	0.4200	P	0.5
5	☐	1250.000	1288.981	1809624.33	0.8303	A	1.9
6	☐	2500.000	2544.885	3503042.35	1.6394	A	1.2
7	☐	5000.000	4963.983	7018228.11	3.1977	A	1.5
8	☐			1230.65	0.0006	P	12.6

$$y = 6.4417\text{E-}004 * x + 1.1827\text{E-}005$$

$$R = 0.9999$$

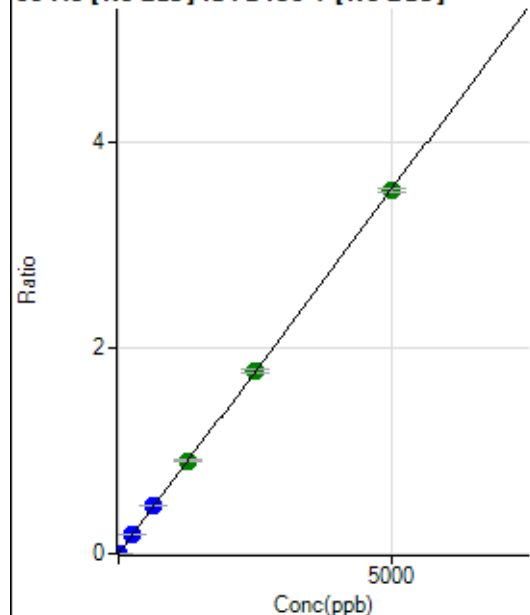
$$DL = 0.04883$$

$$BEC = 0.01836$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	14.2
2	☐	5.000	4.827	7252.08	0.0034	P	6.6
3	☐	250.000	259.064	392085.86	0.1832	P	0.8
4	☐	625.000	650.281	983062.35	0.4598	P	1.1
5	☐	1250.000	1279.376	1971390.84	0.9045	A	0.8
6	☐	2500.000	2518.241	3803980.16	1.7804	A	2.1
7	☐	5000.000	4979.923	7727498.96	3.5207	A	1.0
8	☐			1755.71	0.0009	P	3.5

$$y = 7.0698\text{E-}004 * x + 1.7011\text{E-}005$$

$$R = 1.0000$$

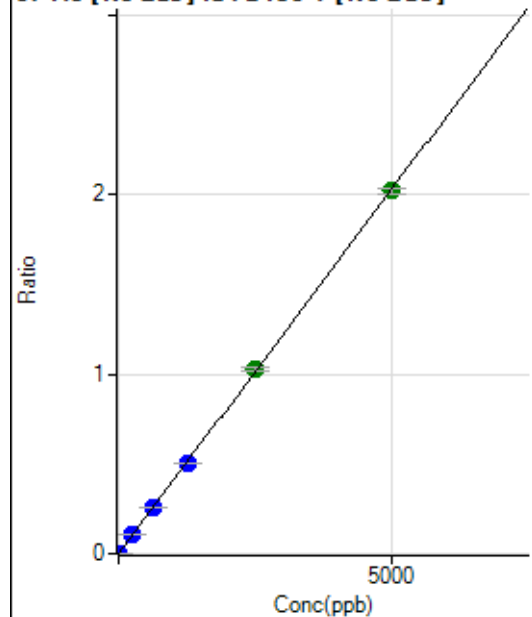
$$DL = 0.01023$$

$$BEC = 0.02406$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.66	0.0000	P	85.3
2	☐	5.000	4.769	4114.62	0.0019	P	1.2
3	☐	250.000	253.491	220382.74	0.1030	P	0.5
4	☐	625.000	636.509	552773.42	0.2585	P	0.7
5	☐	1250.000	1250.820	1107218.83	0.5080	P	0.4
6	☐	2500.000	2534.400	2199312.07	1.0293	A	1.5
7	☐	5000.000	4980.982	4440143.72	2.0229	A	1.3
8	☐			733.38	0.0004	P	7.1

$$y = 4.0612\text{E-}004 * x + 7.7831\text{E-}006$$

$$R = 1.0000$$

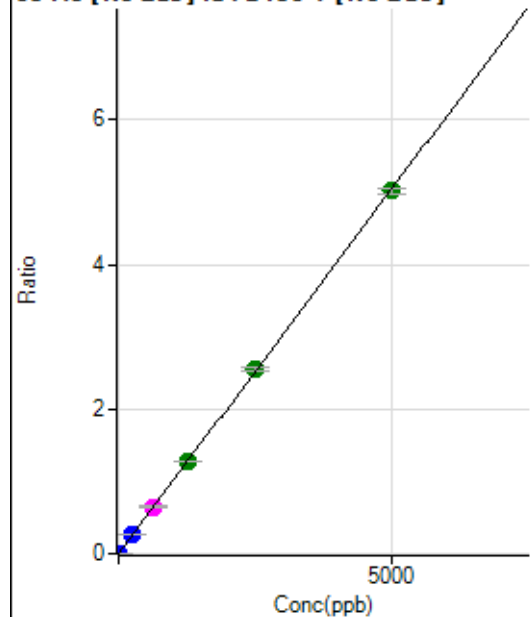
$$DL = 0.04901$$

$$BEC = 0.01916$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.3
2	☐	5.000	4.850	10348.58	0.0049	P	2.1
3	☐	250.000	258.814	558503.76	0.2609	P	0.9
4	☐	625.000	643.872	1387813.81	0.6491	M	1.2
5	☐	1250.000	1264.141	2777664.63	1.2744	A	1.0
6	☐	2500.000	2531.984	5453757.85	2.5525	A	2.0
7	☐	5000.000	4977.674	11013740.61	5.0179	A	1.3
8	☐			1697.38	0.0008	P	6.5

$$y = 0.0010 * x + 3.8913\text{E-}006$$

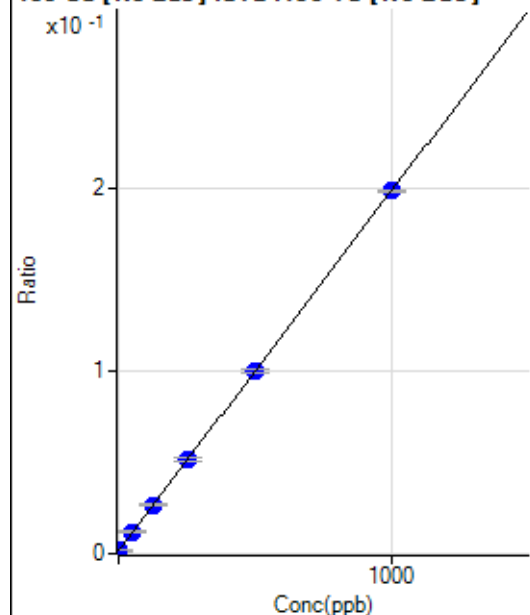
$$R = 1.0000$$

$$DL = 0.0115$$

$$BEC = 0.00386$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	544.47	0.0016	P	19.9
2	☐	1.000	0.987	611.14	0.0018	P	9.0
3	☐	50.000	53.074	4209.10	0.0121	P	2.5
4	☐	125.000	126.752	9428.52	0.0266	P	2.9
5	☐	250.000	254.805	18498.91	0.0519	P	3.7
6	☐	500.000	497.423	35499.00	0.0997	P	2.1
7	☐	1000.000	999.715	72203.03	0.1988	P	0.6
8	☐			561.14	0.0017	P	15.9

$$y = 1.9726E-004 * x + 0.0016$$

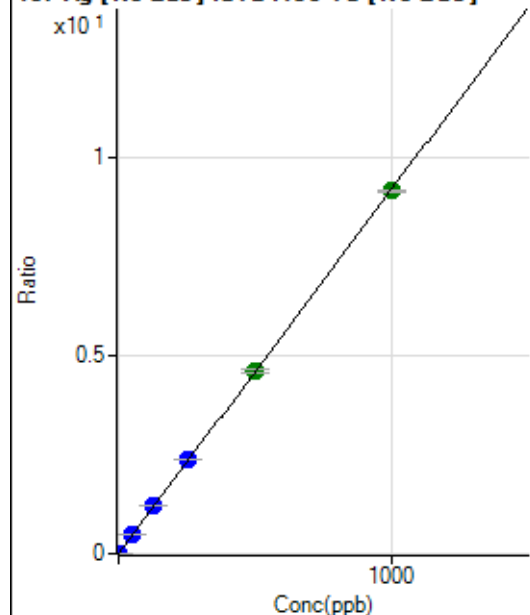
$$R = 1.0000$$

$$DL = 4.797$$

$$BEC = 8.051$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0001	P	32.8
2	☐	1.000	0.952	3036.53	0.0089	P	6.7
3	☐	50.000	52.385	168561.20	0.4829	P	0.3
4	☐	125.000	129.865	424403.14	1.1969	P	0.4
5	☐	250.000	258.021	848337.22	2.3780	P	0.9
6	☐	500.000	502.374	1648257.93	4.6299	A	1.6
7	☐	1000.000	996.081	3334085.49	9.1799	A	0.5
8	☐			1705.71	0.0050	P	9.3

$$y = 0.0092 * x + 8.9582E-005$$

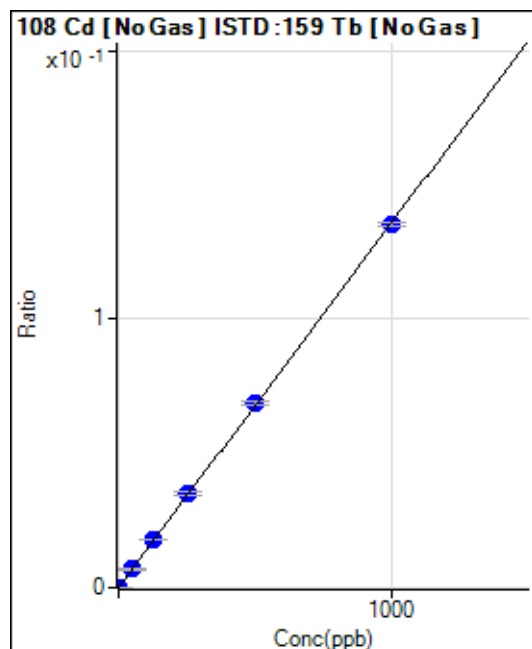
$$R = 1.0000$$

$$DL = 0.009551$$

$$BEC = 0.00972$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.17	0.0000	P	2.9
2	☐	1.000	0.839	43.06	0.0001	P	25.9
3	☐	50.000	51.033	2422.47	0.0069	P	4.9
4	☐	125.000	130.791	6298.74	0.0178	P	1.5
5	☐	250.000	258.788	12536.39	0.0351	P	4.2
6	☐	500.000	504.590	24386.94	0.0685	P	2.1
7	☐	1000.000	994.733	49039.79	0.1350	P	1.0
8	☐			81.94	0.0002	P	27.9

$$y = 1.3573\text{E-}004 * x + 1.2198\text{E-}005$$

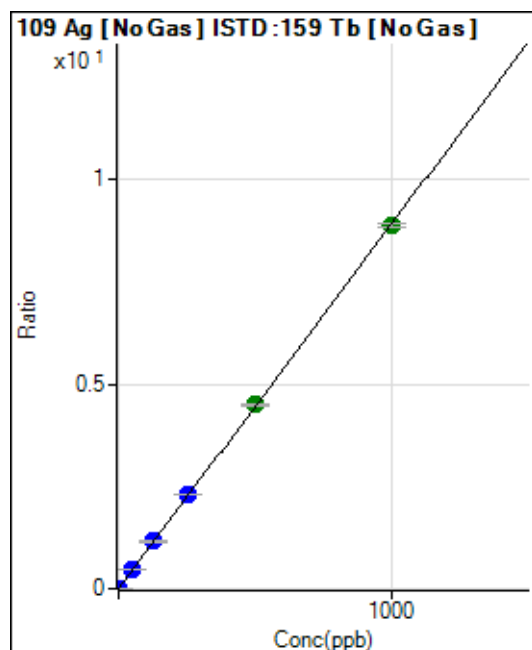
$$R = 0.9999$$

$$DL = 0.007843$$

$$BEC = 0.08987$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0001	P	88.5
2	☐	1.000	0.935	2869.82	0.0084	P	1.5
3	☐	50.000	52.745	163966.19	0.4697	P	1.6
4	☐	125.000	129.307	408278.40	1.1515	P	1.2
5	☐	250.000	257.594	818287.40	2.2938	P	0.7
6	☐	500.000	504.514	1599350.48	4.4924	A	1.1
7	☐	1000.000	995.169	3218415.00	8.8614	A	0.9
8	☐			1636.25	0.0048	P	4.9

$$y = 0.0089 * x + 5.6094\text{E-}005$$

$$R = 1.0000$$

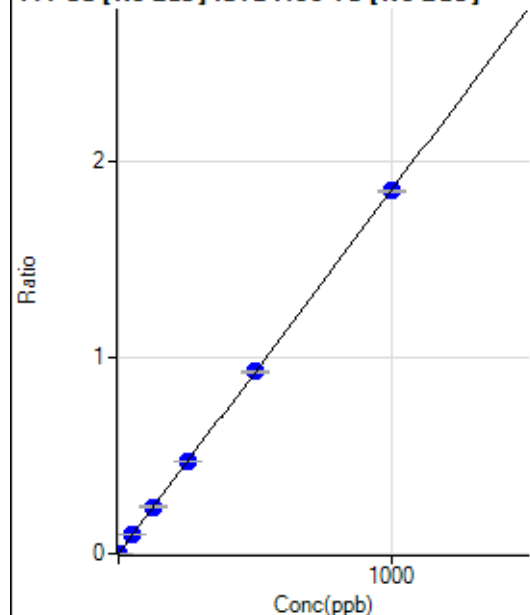
$$DL = 0.01672$$

$$BEC = 0.0063$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	407.38	0.0012	P	21.4
2	☐	1.000	0.987	1033.79	0.0030	P	4.3
3	☐	50.000	52.550	34439.31	0.0987	P	0.9
4	☐	125.000	128.715	85074.58	0.2399	P	1.2
5	☐	250.000	255.376	169403.21	0.4749	P	0.2
6	☐	500.000	499.798	330436.19	0.9282	P	1.8
7	☐	1000.000	998.165	672851.14	1.8526	P	0.5
8	☐			628.50	0.0019	P	12.4

$$y = 0.0019 * x + 0.0012$$

$$R = 1.0000$$

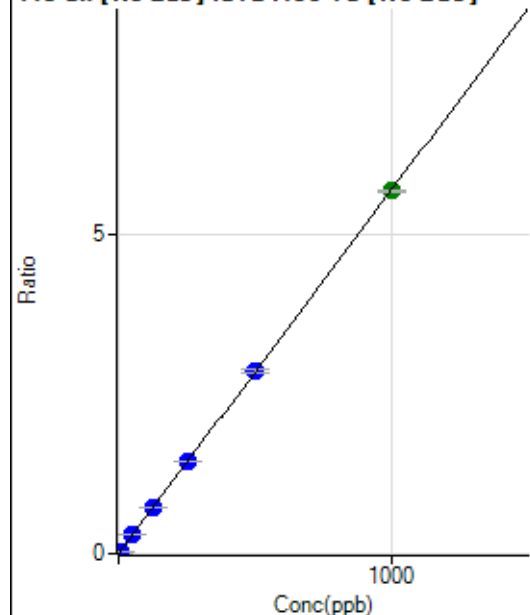
$$DL = 0.4116$$

$$BEC = 0.6405$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	277.79	0.0008	P	39.8
2	☐	5.000	4.799	9631.42	0.0281	P	3.8
3	☐	50.000	51.685	102935.56	0.2949	P	2.0
4	☐	125.000	128.363	259247.99	0.7311	P	0.2
5	☐	250.000	253.824	515472.65	1.4449	P	0.4
6	☐	500.000	502.096	1017267.84	2.8575	P	1.6
7	☐	1000.000	997.492	2061537.74	5.6760	A	0.8
8	☐			483.35	0.0014	P	1.3

$$y = 0.0057 * x + 8.1820E-004$$

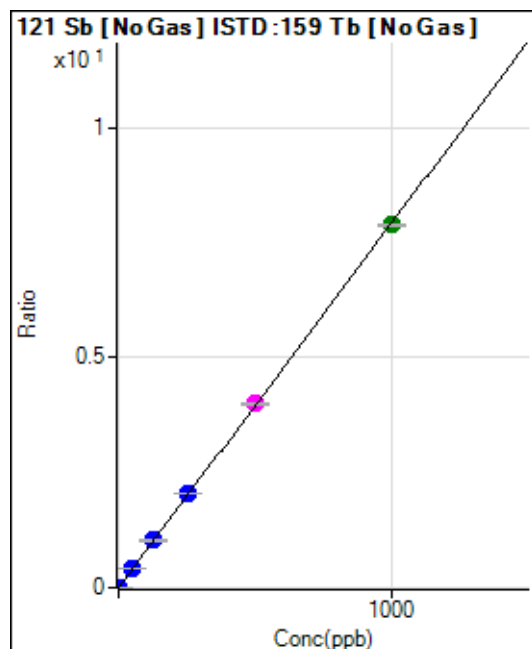
$$R = 1.0000$$

$$DL = 0.1719$$

$$BEC = 0.1438$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.66	0.0000	P	87.7
2	☐	2.000	1.853	5048.29	0.0147	P	2.9
3	☐	50.000	52.196	144424.59	0.4137	P	0.5
4	☐	125.000	129.298	363375.41	1.0248	P	0.1
5	☐	250.000	256.528	725303.65	2.0331	P	0.3
6	☐	500.000	504.380	1423098.33	3.9975	M	1.4
7	☐	1000.000	995.531	2865603.54	7.8900	A	0.6
8	☐			1802.95	0.0053	P	8.1

$$y = 0.0079 * x + 4.9041E-005$$

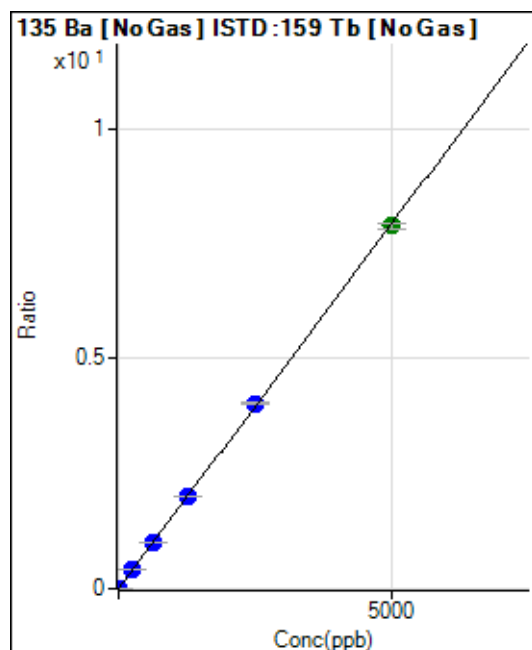
$$R = 1.0000$$

$$DL = 0.01628$$

$$BEC = 0.006188$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.7
2	☐	10.000	10.141	5509.66	0.0161	P	3.2
3	☐	250.000	258.234	142903.78	0.4094	P	0.2
4	☐	625.000	636.611	357836.68	1.0092	P	0.9
5	☐	1250.000	1275.022	721023.65	2.0212	P	0.4
6	☐	2500.000	2536.809	1431680.54	4.0213	P	0.7
7	☐	5000.000	4973.477	2863408.01	7.8839	A	1.3
8	☐			4953.83	0.0147	P	12.0

$$y = 0.0016 * x + 1.6145E-005$$

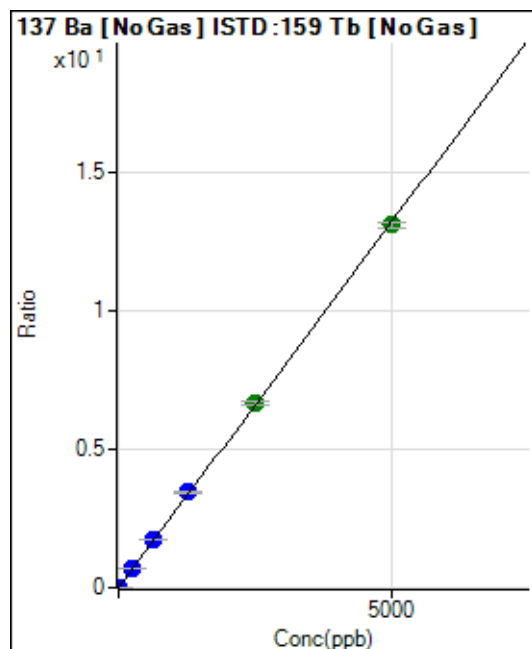
$$R = 0.9999$$

$$DL = 0.02649$$

$$BEC = 0.01018$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0001	P	79.7
2	☐	10.000	10.061	9117.18	0.0266	P	2.3
3	☐	250.000	263.480	242811.45	0.6956	P	1.2
4	☐	625.000	653.872	612042.21	1.7261	P	0.7
5	☐	1250.000	1305.134	1229035.74	3.4452	P	0.5
6	☐	2500.000	2536.991	2384001.59	6.6970	A	2.1
7	☐	5000.000	4963.438	4758672.76	13.1021	A	1.3
8	☐			8319.44	0.0246	P	7.2

$$y = 0.0026 * x + 6.5787E-005$$

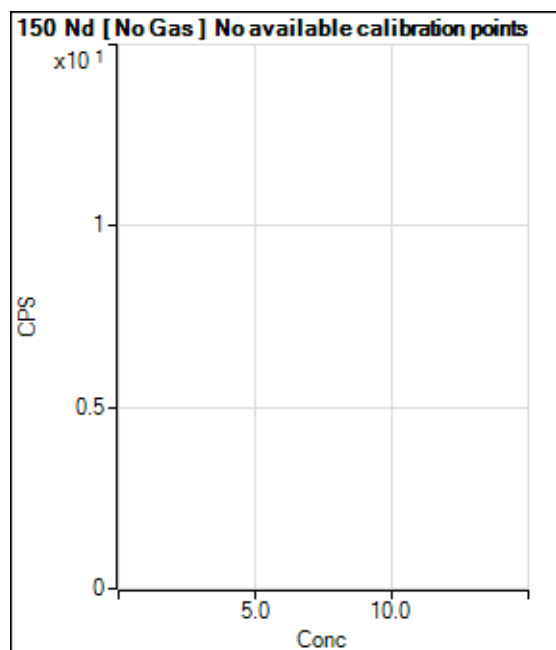
$$R = 0.9999$$

$$DL = 0.05956$$

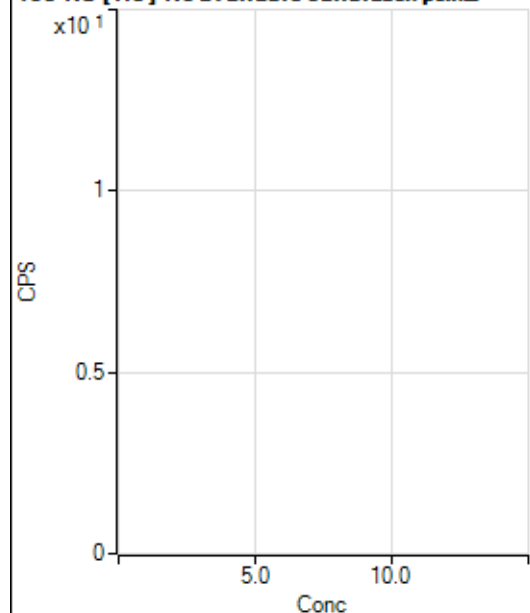
$$BEC = 0.02492$$

Weight: <None>

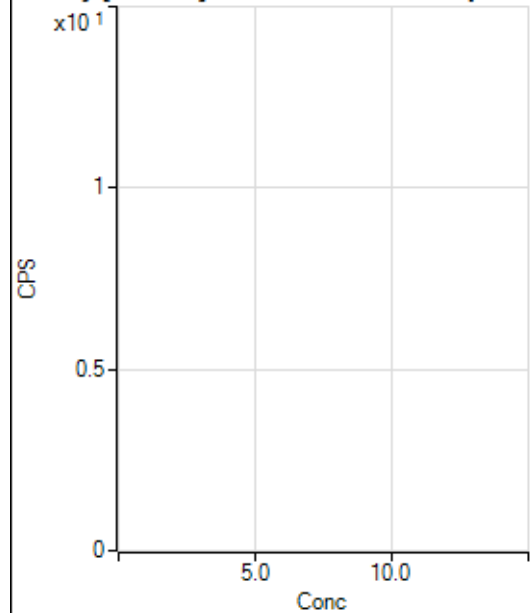
Min Conc: 0



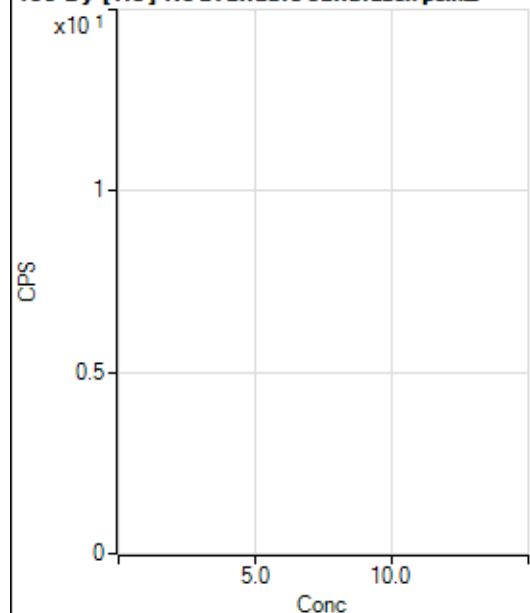
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	100.0
2	☐			4.45		P	86.6
3	☐			2.22		P	173.2
4	☐			15.56		P	49.5
5	☐			20.00		P	66.7
6	☐			57.78		P	13.3
7	☐			97.78		P	45.4
8	☐			24.45		P	15.8

150 Nd [He] No available calibration points

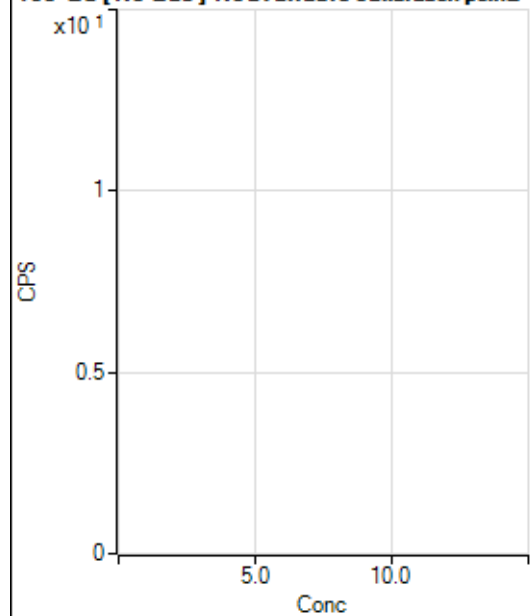
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			3.33		P	100.1
4	☐			2.22		P	86.6
5	☐			7.78		P	65.5
6	☐			2.22		P	173.2
7	☐			5.55		P	69.3
8	☐			2.22		P	86.6

156 Dy [No Gas] No available calibration points

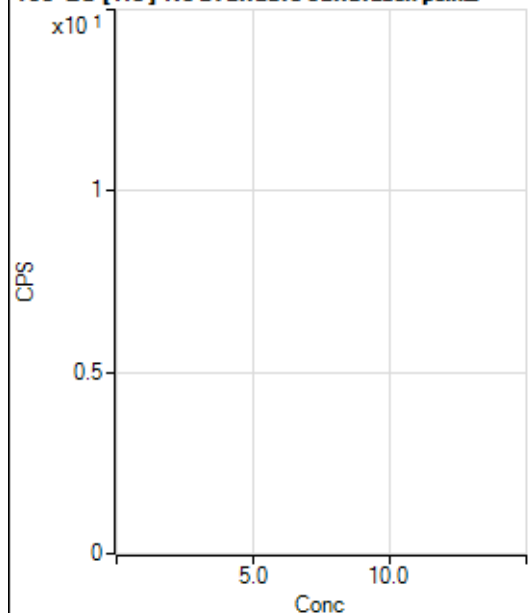
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			8.33		P	100.0
2	☐			2.78		P	173.2
3	☐			11.11		P	86.6
4	☐			22.22		P	108.3
5	☐			11.11		P	43.3
6	☐			19.44		P	65.5
7	☐			44.44		P	39.0
8	☐			127.78		P	7.5

156 Dy [He] No available calibration points

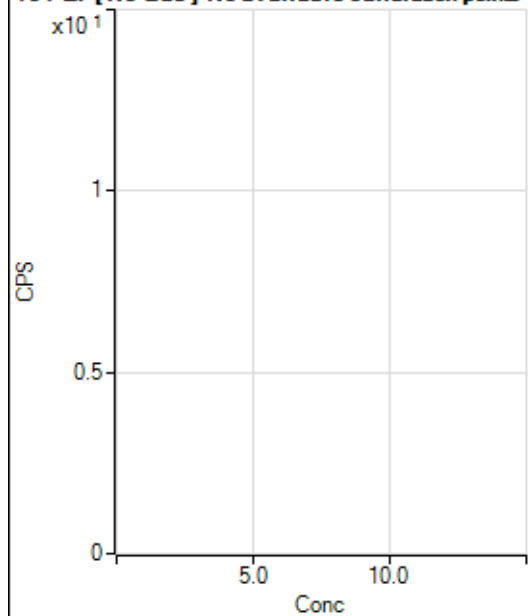
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			4.45		P	86.6
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			3.33		P	100.1
5	☐			3.33		P	100.1
6	☐			13.33		P	25.0
7	☐			14.45		P	26.7
8	☐			108.89		P	4.7

160 Gd [No Gas] Noavailable calibration poin_

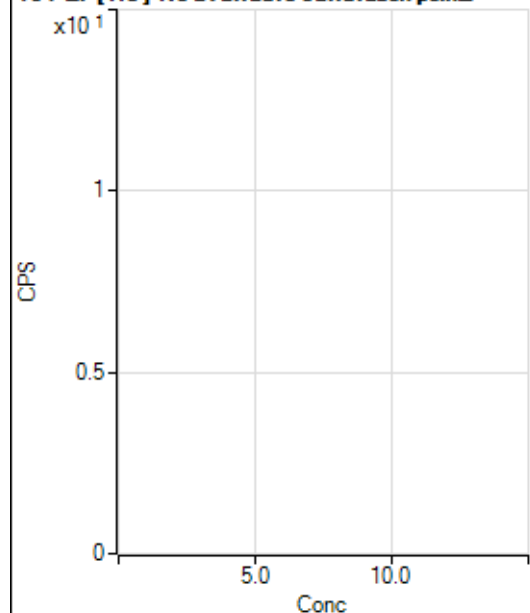
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			5.55		P	86.6
2	☐			8.33		P	0.0
3	☐			16.67		P	100.0
4	☐			13.89		P	124.9
5	☐			22.22		P	21.6
6	☐			36.11		P	74.2
7	☐			58.33		P	37.8
8	☐			152.78		P	41.7

160 Gd [He] No available calibration points

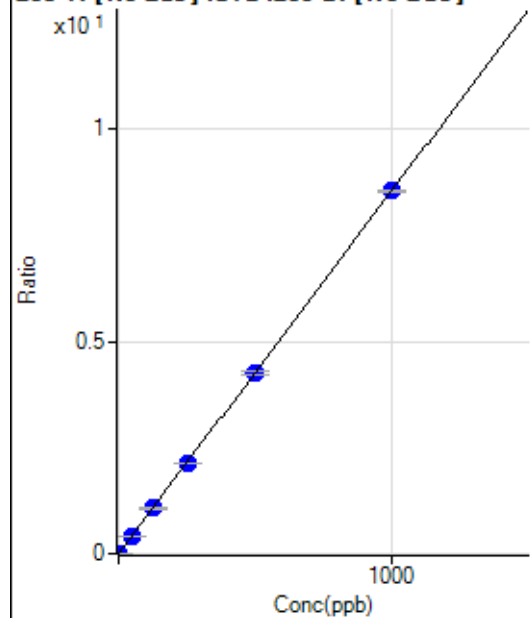
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.2
2	☐			1.11		P	173.2
3	☐			6.67		P	50.0
4	☐			4.45		P	86.6
5	☐			12.22		P	15.7
6	☐			17.78		P	39.0
7	☐			28.89		P	54.5
8	☐			105.56		P	17.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	86.6
2	☐			11.11		P	86.6
3	☐			0.00		P	
4	☐			8.33		P	100.0
5	☐			22.22		P	78.1
6	☐			19.44		P	65.5
7	☐			13.89		P	91.6
8	☐			22.22		P	78.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			0.00		P	
4	☐			2.22		P	86.6
5	☐			0.00		P	
6	☐			4.44		P	43.4
7	☐			0.00		P	
8	☐			10.00		P	66.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.34	0.0005	P	37.5
2	☐	1.000	0.983	1561.25	0.0089	P	0.8
3	☐	50.000	49.389	76103.35	0.4221	P	1.1
4	☐	125.000	125.145	194837.91	1.0689	P	1.5
5	☐	250.000	249.847	388950.71	2.1335	P	0.7
6	☐	500.000	498.692	775591.69	4.2580	P	1.6
7	☐	1000.000	1000.705	1572906.79	8.5440	P	0.8
8	☐			1094.52	0.0066	P	9.0

$$y = 0.0085 * x + 4.6643E-004$$

$$R = 1.0000$$

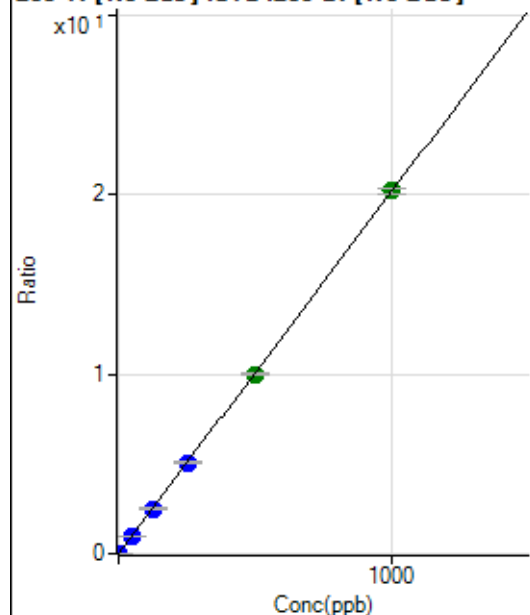
$$DL = 0.06149$$

$$BEC = 0.05463$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0008	P	21.9
2	☐	1.000	0.973	3595.06	0.0204	P	3.4
3	☐	50.000	49.329	179516.96	0.9957	P	0.8
4	☐	125.000	124.289	457104.62	2.5077	P	1.4
5	☐	250.000	251.493	925014.43	5.0734	P	1.1
6	☐	500.000	494.812	1818082.40	9.9811	A	1.1
7	☐	1000.000	1002.343	3721905.38	20.2180	A	1.3
8	☐			2575.35	0.0154	P	11.0

$$y = 0.0202 * x + 7.8255E-004$$

$$R = 1.0000$$

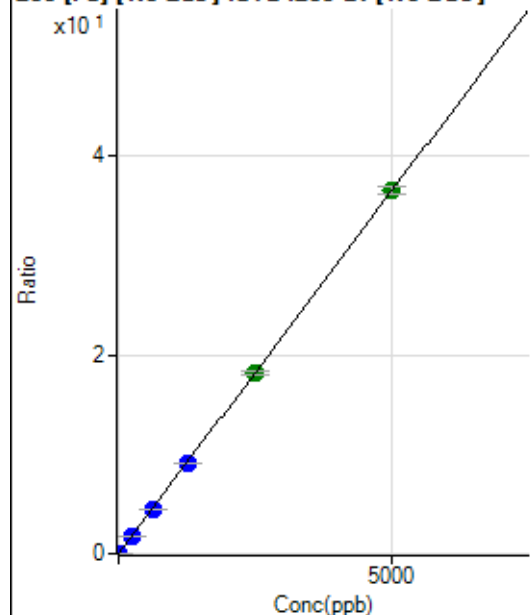
$$DL = 0.02545$$

$$BEC = 0.0388$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	227.78	0.0013	P	17.8
2	☐	1.000	0.948	1442.70	0.0082	P	6.8
3	☐	250.000	247.758	325719.78	1.8067	P	0.9
4	☐	625.000	619.150	822655.18	4.5130	P	1.3
5	☐	1250.000	1250.709	1661741.43	9.1152	P	0.7
6	☐	2500.000	2489.094	3304044.17	18.1393	A	1.7
7	☐	5000.000	5006.119	6715384.41	36.4809	A	2.1
8	☐			1435.31	0.0086	P	0.9

$$y = 0.0073 * x + 0.0013$$

$$R = 1.0000$$

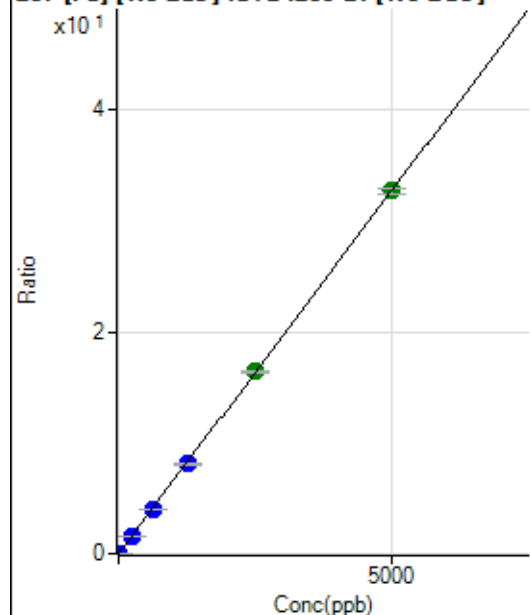
$$DL = 0.09374$$

$$BEC = 0.1757$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	200.01	0.0011	P	12.2
2	☐	1.000	0.910	1248.24	0.0071	P	10.8
3	☐	250.000	246.884	291068.30	1.6145	P	0.5
4	☐	625.000	610.230	727093.08	3.9889	P	1.6
5	☐	1250.000	1236.801	1473537.32	8.0835	P	1.5
6	☐	2500.000	2506.939	2984350.24	16.3837	A	0.9
7	☐	5000.000	5001.832	6017436.77	32.6875	A	1.3
8	☐			1437.19	0.0086	P	12.0

$$y = 0.0065 * x + 0.0011$$

$$R = 1.0000$$

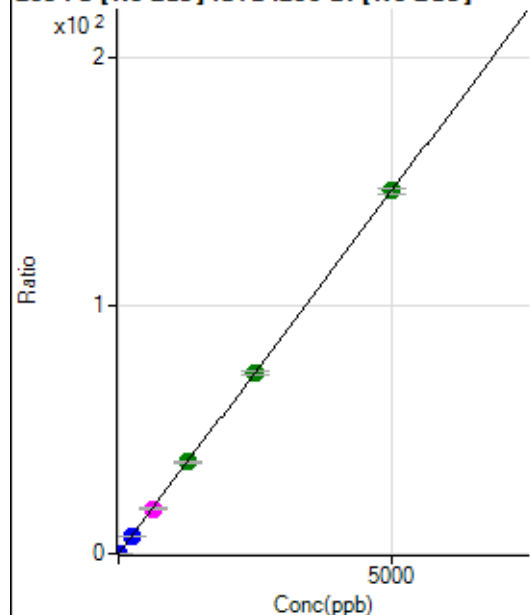
$$DL = 0.06288$$

$$BEC = 0.1724$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1005.59	0.0057	P	11.6
2	☐	1.000	0.918	5735.79	0.0325	P	4.4
3	☐	250.000	247.517	1307315.12	7.2513	P	0.6
4	☐	625.000	618.824	3303082.37	18.1207	M	1.8
5	☐	1250.000	1260.019	6725064.15	36.8906	A	1.0
6	☐	2500.000	2495.427	13306745.38	73.0551	A	1.6
7	☐	5000.000	5000.678	26949451.59	146.3921	A	1.2
8	☐			5734.01	0.0344	P	6.9

$$y = 0.0293 * x + 0.0057$$

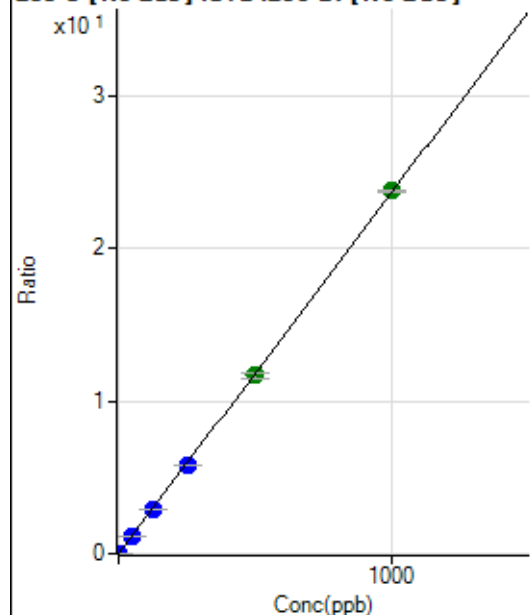
$$R = 1.0000$$

$$DL = 0.0675$$

$$BEC = 0.1936$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0002	P	58.5
2	☐	1.000	0.915	3847.91	0.0218	P	2.4
3	☐	50.000	48.196	205304.44	1.1388	P	0.4
4	☐	125.000	122.016	525422.53	2.8827	P	2.1
5	☐	250.000	245.378	1056943.40	5.7969	P	1.2
6	☐	500.000	493.097	2121752.37	11.6489	A	2.9
7	☐	1000.000	1005.070	4371482.74	23.7435	A	0.7
8	☐			486.14	0.0029	P	23.6

$$y = 0.0236 * x + 2.1634E-004$$

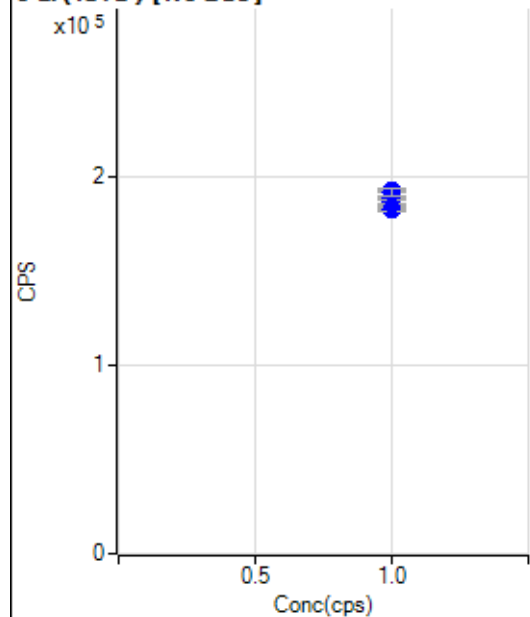
$$R = 1.0000$$

$$DL = 0.01608$$

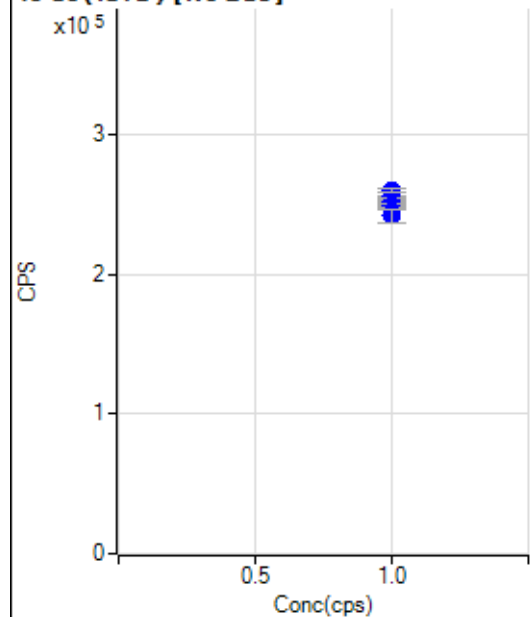
$$BEC = 0.009158$$

Weight: <None>

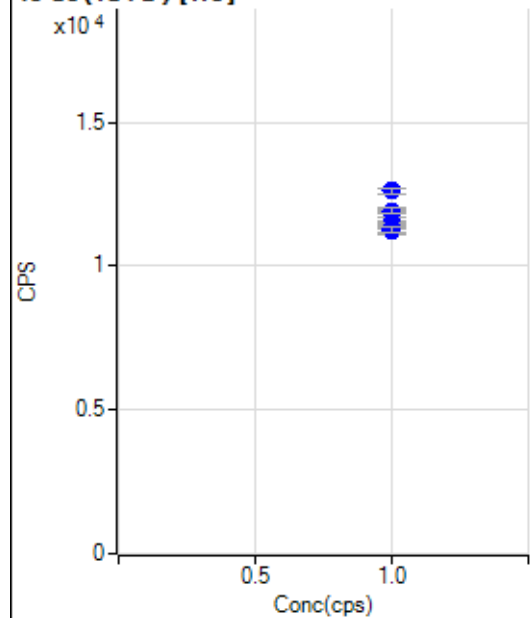
Min Conc: 0

6 Li (ISTD) [No Gas]

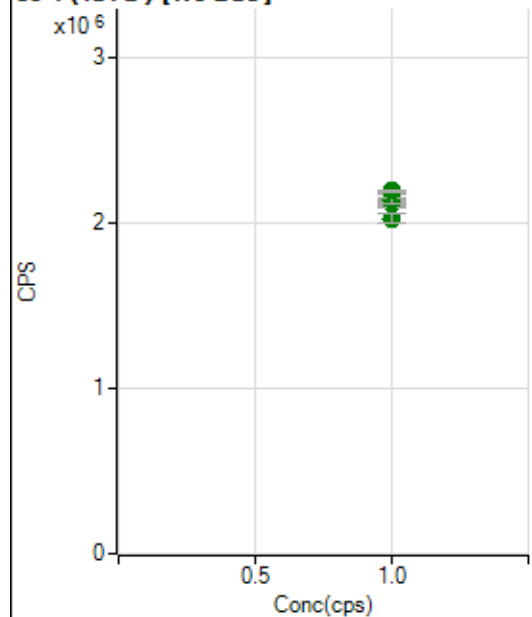
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		184133.30		P	1.1
2	☐	1.000		183035.19		P	1.1
3	☐	1.000		185915.07		P	0.1
4	☐	1.000		187111.22		P	0.8
5	☐	1.000		188955.44		P	0.1
6	☐	1.000		189018.41		P	0.7
7	☐	1.000		192720.53		P	0.9
8	☐	1.000		191750.62		P	2.3

45 Sc (ISTD) [No Gas]

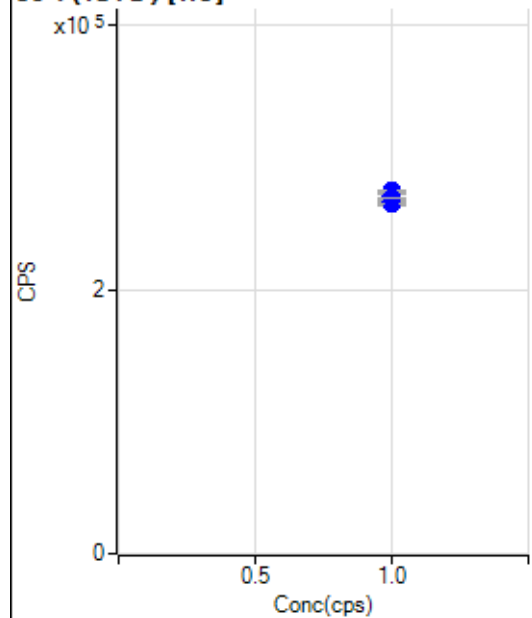
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		251608.65		P	2.2
2	☐	1.000		248874.97		P	1.6
3	☐	1.000		252551.04		P	0.8
4	☐	1.000		252051.44		P	2.0
5	☐	1.000		255390.02		P	0.7
6	☐	1.000		256113.19		P	1.4
7	☐	1.000		259370.63		P	1.0
8	☐	1.000		241412.66		P	4.2

45 Sc (ISTD) [He]

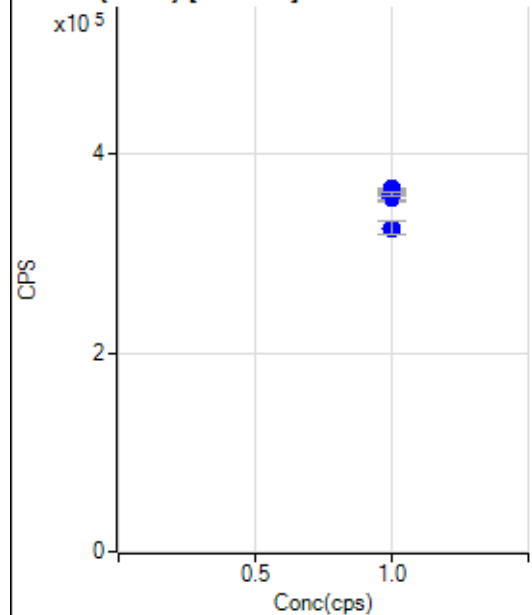
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11227.82		P	2.1
2	☐	1.000		11489.14		P	3.2
3	☐	1.000		11442.43		P	2.0
4	☐	1.000		11455.77		P	0.8
5	☐	1.000		11911.69		P	0.5
6	☐	1.000		11929.49		P	1.6
7	☐	1.000		12613.42		P	1.5
8	☐	1.000		11275.63		P	1.7

89 Y (ISTD) [No Gas]

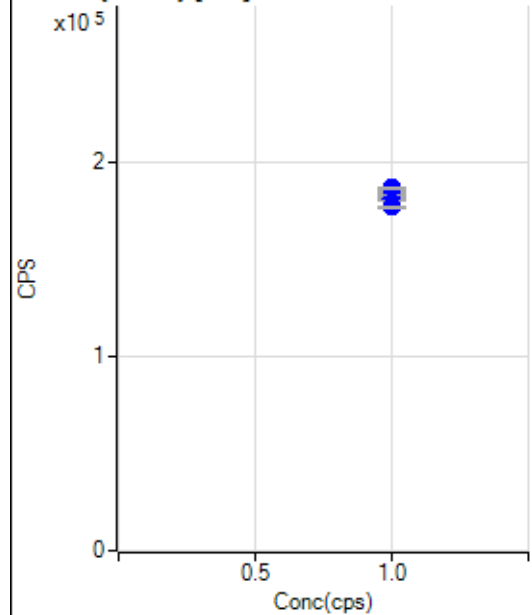
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2124430.54		A	1.4
2	☐	1.000		2115712.26		A	2.2
3	☐	1.000		2140598.77		A	0.4
4	☐	1.000		2138263.68		A	0.9
5	☐	1.000		2179582.30		A	0.8
6	☐	1.000		2137065.21		A	1.5
7	☐	1.000		2194970.89		A	0.8
8	☐	1.000		2026397.51		A	3.0

89 Y (ISTD) [He]

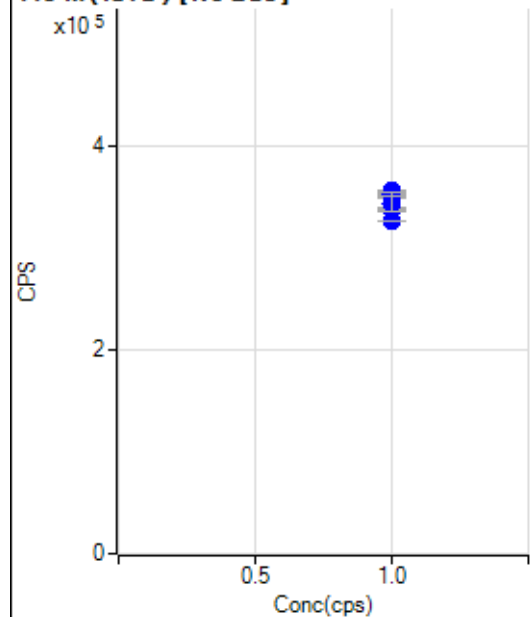
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		264817.11		P	0.9
2	☐	1.000		267064.60		P	0.5
3	☐	1.000		269445.38		P	1.9
4	☐	1.000		266528.81		P	1.8
5	☐	1.000		270971.68		P	1.6
6	☐	1.000		268775.54		P	0.6
7	☐	1.000		274516.42		P	0.4
8	☐	1.000		268924.34		P	0.1

103 Rh (ISTD) [No Gas]

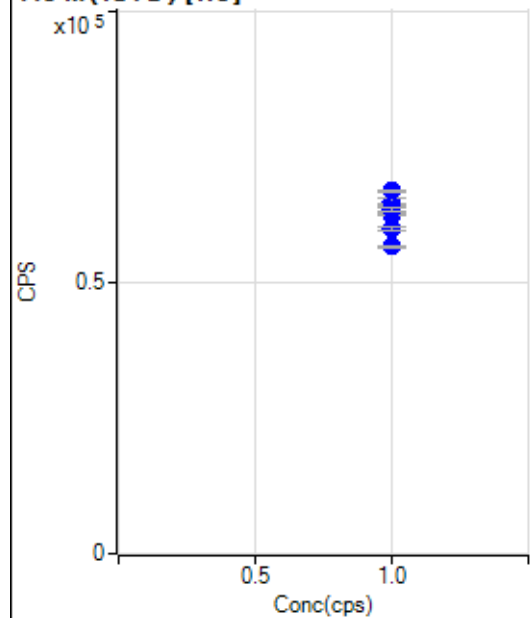
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		356556.88		P	2.6
2	☐	1.000		358056.13		P	1.9
3	☐	1.000		363214.32		P	0.4
4	☐	1.000		362803.86		P	1.7
5	☐	1.000		365143.76		P	0.3
6	☐	1.000		361149.91		P	1.3
7	☐	1.000		360637.80		P	1.2
8	☐	1.000		325923.83		P	4.5

103 Rh (ISTD) [He]

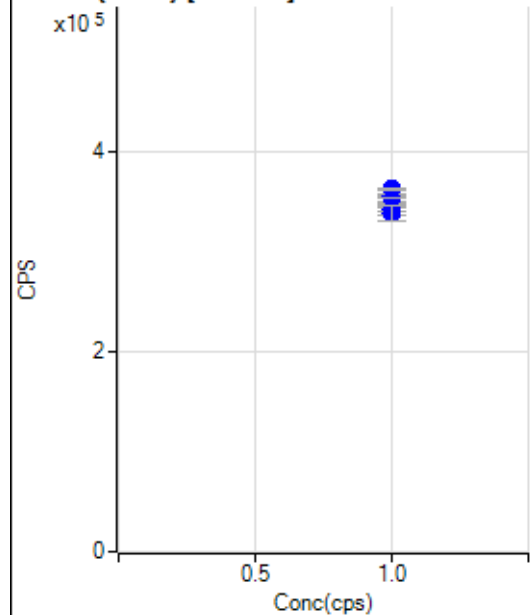
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		180698.31		P	0.4
2	☐	1.000		182470.54		P	0.6
3	☐	1.000		183614.79		P	2.3
4	☐	1.000		181096.90		P	1.3
5	☐	1.000		184281.53		P	0.9
6	☐	1.000		183049.58		P	0.3
7	☐	1.000		186479.62		P	0.4
8	☐	1.000		176604.72		P	0.4

115 In (ISTD) [No Gas]

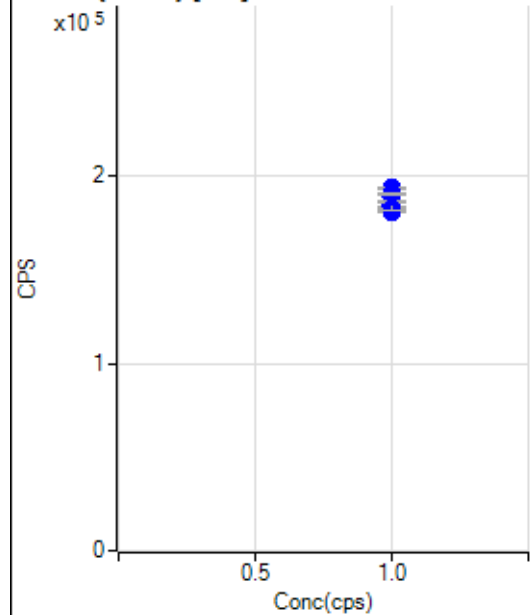
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		353150.66		P	2.3
2	☐	1.000		351526.41		P	1.3
3	☐	1.000		356154.95		P	0.2
4	☐	1.000		355356.77		P	1.0
5	☐	1.000		352517.15		P	0.8
6	☐	1.000		338285.80		P	0.7
7	☐	1.000		326803.30		P	0.1
8	☐	1.000		343550.80		P	4.1

115 In (ISTD) [He]

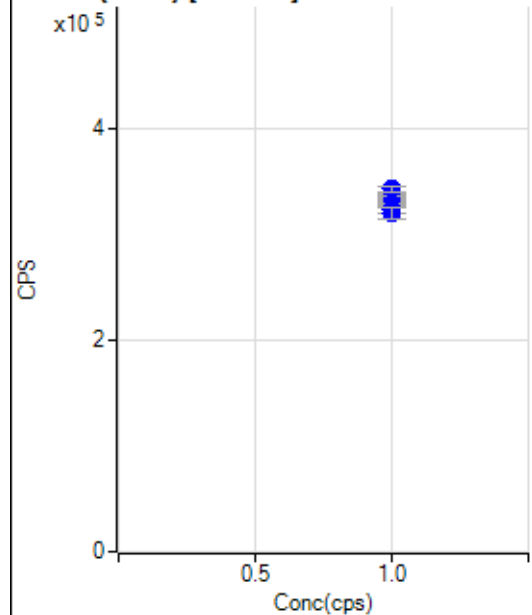
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		64020.67		P	1.0
2	☐	1.000		64033.40		P	0.5
3	☐	1.000		64812.10		P	2.3
4	☐	1.000		62447.63		P	0.8
5	☐	1.000		63314.76		P	1.4
6	☐	1.000		59710.49		P	1.4
7	☐	1.000		56525.17		P	0.5
8	☐	1.000		66791.74		P	0.3

159 Tb (ISTD) [No Gas]

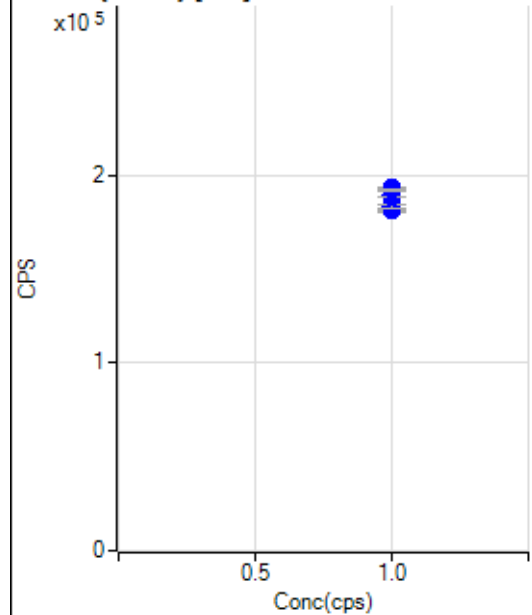
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		342060.68		P	3.0
2	☐	1.000		342496.23		P	1.5
3	☐	1.000		349085.93		P	0.3
4	☐	1.000		354586.15		P	0.4
5	☐	1.000		356740.36		P	0.5
6	☐	1.000		356036.73		P	1.1
7	☐	1.000		363203.86		P	0.7
8	☐	1.000		338688.17		P	4.1

159 Tb (ISTD) [He]

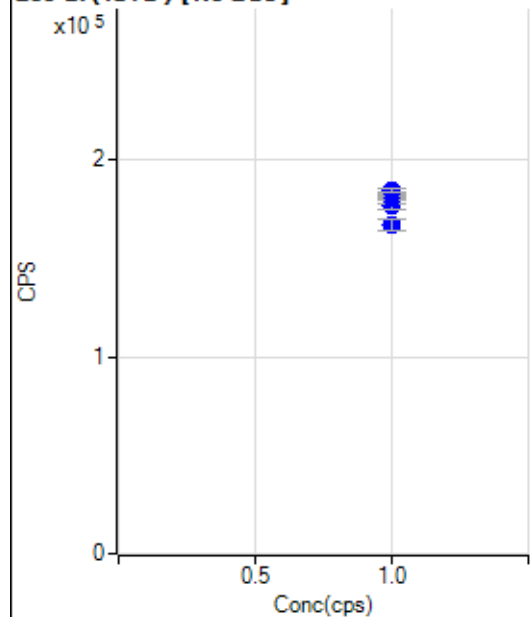
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		181022.88		P	0.6
2	☐	1.000		183236.83		P	0.6
3	☐	1.000		184538.63		P	2.4
4	☐	1.000		184062.41		P	2.2
5	☐	1.000		189965.42		P	0.5
6	☐	1.000		188701.13		P	1.3
7	☐	1.000		193796.52		P	0.6
8	☐	1.000		190704.12		P	0.4

165 Ho (ISTD) [No Gas]

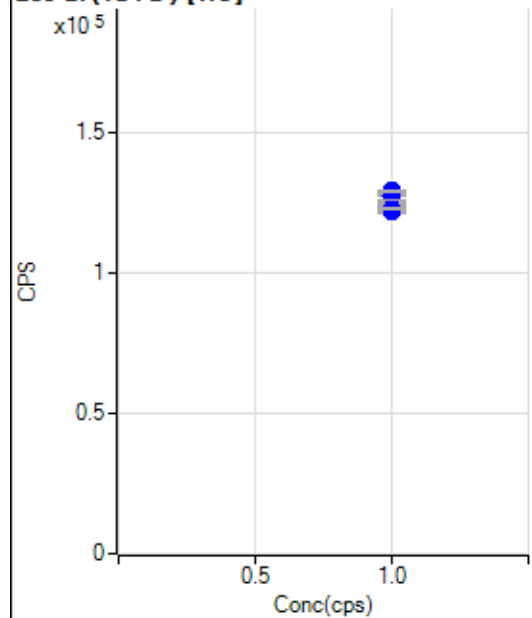
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		322880.27		P	2.3
2	☐	1.000		323374.75		P	2.1
3	☐	1.000		329011.51		P	0.3
4	☐	1.000		333367.13		P	1.1
5	☐	1.000		336119.90		P	1.2
6	☐	1.000		335500.14		P	0.3
7	☐	1.000		342431.53		P	1.7
8	☐	1.000		319632.14		P	3.2

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		180681.76		P	0.4
2	☐	1.000		182102.07		P	0.4
3	☐	1.000		182846.03		P	1.2
4	☐	1.000		182939.58		P	1.4
5	☐	1.000		189768.39		P	1.1
6	☐	1.000		188346.77		P	0.4
7	☐	1.000		193022.22		P	0.3
8	☐	1.000		191940.47		P	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		177654.74		P	3.1
2	☐	1.000		176291.65		P	1.7
3	☐	1.000		180287.63		P	0.3
4	☐	1.000		182305.69		P	1.4
5	☐	1.000		182313.28		P	1.3
6	☐	1.000		182162.73		P	0.8
7	☐	1.000		184106.63		P	1.2
8	☐	1.000		166742.63		P	3.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		122000.87		P	1.0
2	☐	1.000		123877.75		P	0.9
3	☐	1.000		124771.56		P	1.4
4	☐	1.000		123774.39		P	2.1
5	☐	1.000		128813.56		P	1.4
6	☐	1.000		127376.58		P	1.3
7	☐	1.000		129452.19		P	0.7
8	☐	1.000		123160.64		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091020MS.b
Acq. Date-Time 2020-09-10 12:53:58
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		2654	26535.42			2.247	5.000
24		42795	427954.53			2.166	5.000
25		5621	56205.32			1.903	5.000
26		6457	64565.79			1.803	5.000
59		16401	164014.65			1.890	5.000
113		2272	22722.07			1.875	5.000
115		6589	65893.48			1.734	5.000
206		2202	22017.95			1.783	5.000
207		1801	18008.14			1.967	5.000
208		4475	44750.28			1.817	5.000
220		1	12.90			14.082	

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

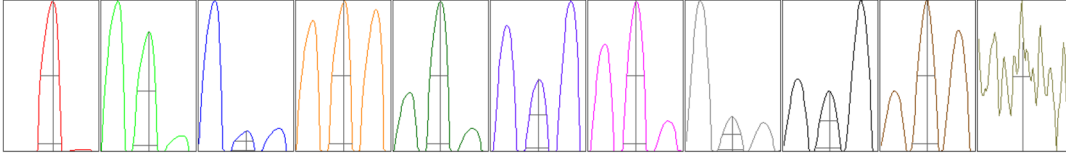
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2704	2635	2660	2562	2707
24	43645	42448	42945	41383	43556
25	5674	5612	5684	5438	5695
26	6559	6428	6451	6280	6565
59	16572	16190	16526	15978	16742
113	2308	2242	2297	2212	2302
115	6639	6555	6653	6406	6694
206	2213	2177	2231	2147	2242
207	1806	1791	1815	1748	1845
208	4481	4435	4467	4387	4605

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4904.95	9.10	8.90 - 9.10	
24	79212.04	24.05	23.90 - 24.10	
25	10377.58	25.05	24.90 - 25.10	
26	11901.88	26.05	25.90 - 26.10	
59	31067.46	59.00	58.90 - 59.10	
113	4449.14	113.05	112.90 - 113.10	
115	12935.45	115.05	114.90 - 115.10	
206	4060.97	206.00	205.90 - 206.10	
207	3353.55	207.00	206.90 - 207.10	
208	8380.77	208.00	207.90 - 208.10	
220	1.55	219.95	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.736	0.900	
24	0.58	0.769	0.900	
25	0.58	0.737	0.900	
26	0.58	0.739	0.900	
59	0.56	0.731	0.900	
113	0.53	0.729	0.900	
115	0.54	0.727	0.900	
206	0.56	0.805	0.900	
207	0.56	0.814	0.900	
208	0.56	0.824	0.900	
220	0.55			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 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	10.0 V	Deflect	14.6 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4137	41367.86			2.765	
89		2444	24443.00			3.157	
205		7083	70833.45			1.900	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4253	4172	3945	4150	4164
89	2472	2448	2311	2493	2498
205	7213	6939	6938	7184	7142

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 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	10.0 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V