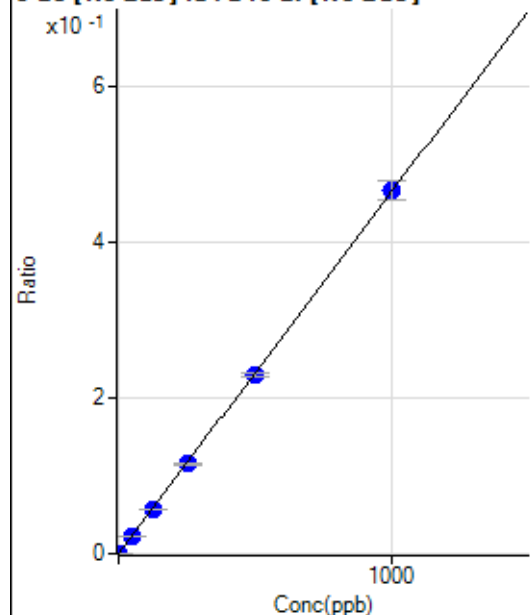


Calibration for 007CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021122MS.b\
 Analysis File: P8021122MS.batch.bin
 DA Date-Time: 2022-02-11 19:29:31
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2022-02-11 14:59:57
2	007CALS.d	S02	2022-02-11 15:06:07
3	008CALS.d	S03	2022-02-11 15:09:14
4	009CALS.d	S04	2022-02-11 15:12:17
5	010CALS.d	S05	2022-02-11 15:15:23
6	011CALS.d	S06	2022-02-11 15:18:27
7	012CALS.d	S07	2022-02-11 15:21:32
8	013CALS.d	S08	2022-02-11 15:24:35

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	37.32	0.0000	P	16.3
2	☐	1.000	0.983	861.19	0.0005	P	10.5
3	☐	50.000	49.907	42118.87	0.0232	P	0.6
4	☐	125.000	122.352	106722.53	0.0568	P	1.7
5	☐	250.000	247.795	212885.07	0.1151	P	2.1
6	☐	500.000	495.279	427068.56	0.2300	P	2.4
7	☐	1000.000	1003.247	867351.27	0.4659	P	5.2
8	☐			499.92	0.0003	P	28.9

$$y = 4.6440\text{E-}004 * x + 2.1159\text{E-}005$$

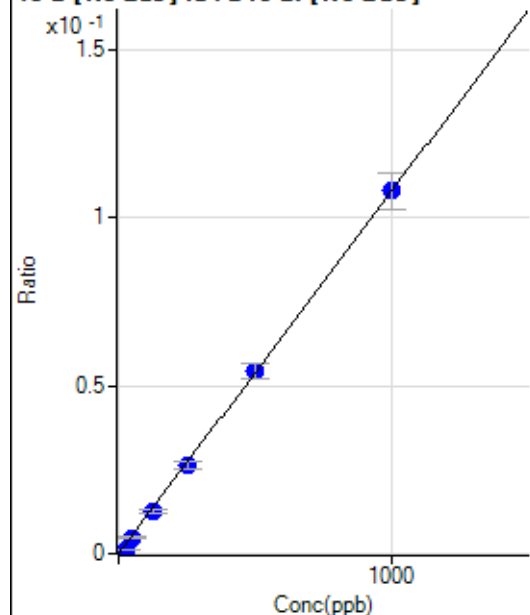
$$R = 1.0000$$

$$DL = 0.02231$$

$$BEC = 0.04556$$

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	99.31	0.0001	P	12.1
2	☐	25.000	8.228	1709.77	0.0009	P	2.1
3	☐	50.000	44.391	8794.28	0.0048	P	10.9
4	☐	125.000	115.883	23574.29	0.0126	P	6.7
5	☐	250.000	243.298	48601.36	0.0263	P	7.7
6	☐	500.000	504.175	100979.04	0.0544	P	8.1
7	☐	1000.000	1001.428	200891.18	0.1080	P	10.0
8	☐			29002.93	0.0156	P	6.2

$$y = 1.0782\text{E-}004 * x + 5.6305\text{E-}005$$

$$R = 0.9999$$

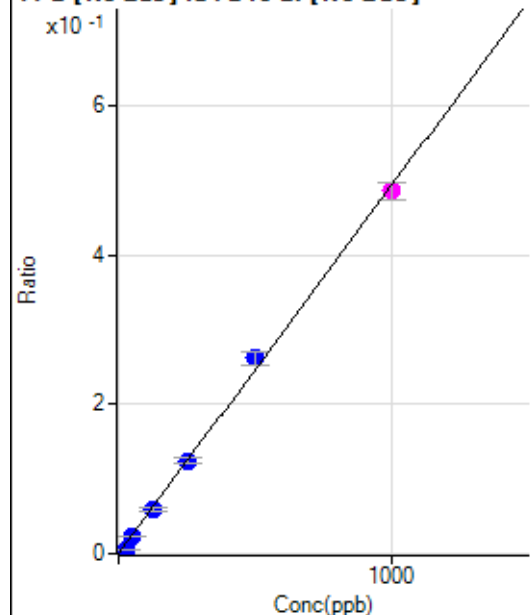
$$DL = 0.1901$$

$$BEC = 0.5222$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	407.93	0.0002	P	12.2
2	☐	25.000	8.601	8101.33	0.0045	P	0.6
3	☐	50.000	47.128	42625.48	0.0235	P	7.1
4	☐	125.000	121.193	112697.65	0.0600	P	6.8
5	☐	250.000	252.473	230635.43	0.1247	P	7.3
6	☐	500.000	530.138	485585.35	0.2617	P	7.1
7	☐	1000.000	985.342	905341.46	0.4862	M	4.6
8	☐			135533.40	0.0729	P	6.1

$$y = 4.9318\text{E-}004 * x + 2.3125\text{E-}004$$

$$R = 0.9991$$

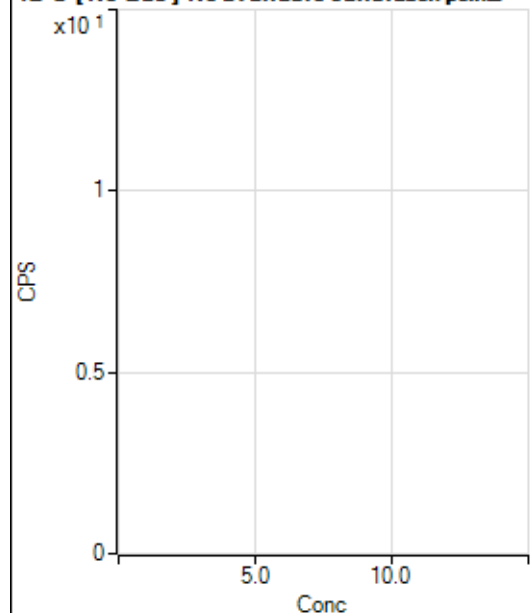
$$DL = 0.1716$$

$$BEC = 0.4689$$

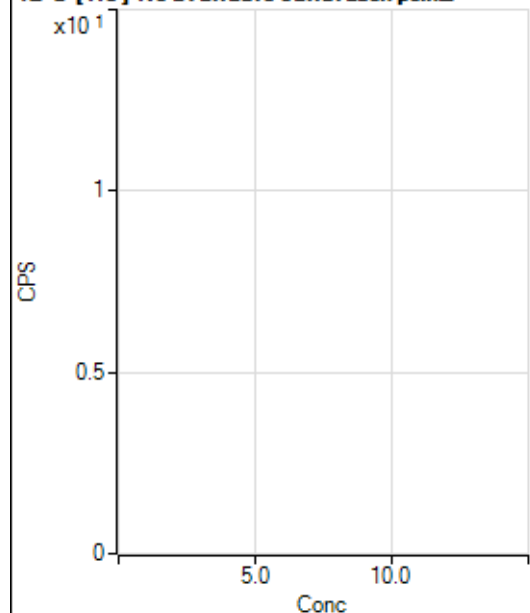
Weight: <None>

Min Conc: 0

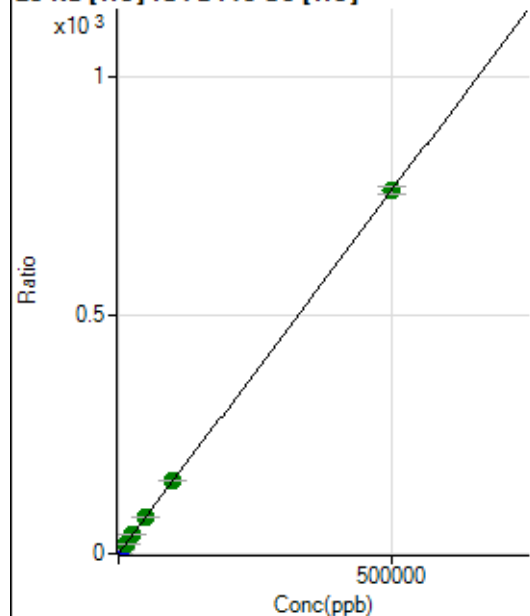
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3871924.70		A	1.8
2	☐			3459356.89		A	0.7
3	☐			4257044.84		A	1.9
4	☐			4405698.84		A	3.0
5	☐			4511189.60		A	2.3
6	☐			4571228.62		A	1.2
7	☐			5167951.29		A	3.7
8	☐			4795902.93		A	2.8

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36392.88		P	3.2
2	☐			32144.05		P	2.2
3	☐			40648.63		P	1.0
4	☐			42381.23		P	3.0
5	☐			43757.62		P	1.9
6	☐			45496.11		P	2.6
7	☐			53350.30		P	1.5
8	☐			50164.05		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4245.17	0.0476	P	2.3
2	☐	500.000	471.592	68676.52	0.7665	P	0.7
3	☐	5000.000	5076.019	699788.19	7.7859	P	0.6
4	☐	12500.000	13289.630	1811317.25	20.3073	A	2.8
5	☐	25000.000	25822.234	3519895.78	39.4129	A	0.7
6	☐	50000.000	51062.065	6911669.25	77.8904	A	1.6
7	☐	100000.00	100121.06	13892368.54	152.6795	A	0.2
8	☐	500000.00	499807.99	66729448.02	761.9915	A	2.1

$$y = 0.0015 * x + 0.0476$$

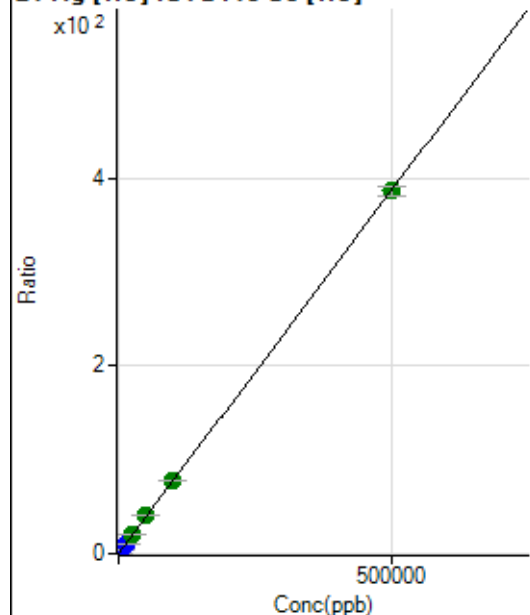
$$R = 1.0000$$

$$DL = 2.132$$

$$BEC = 31.22$$

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	238.90	0.0027	P	30.1
2	☐	500.000	476.479	33283.19	0.3715	P	0.5
3	☐	5000.000	5179.679	360521.76	4.0117	P	1.4
4	☐	12500.000	13122.852	906190.43	10.1596	P	1.2
5	☐	25000.000	26110.147	1804943.73	20.2116	A	1.6
6	☐	50000.000	52154.035	3582245.22	40.3692	A	1.3
7	☐	100000.00	101475.96	7146968.65	78.5438	A	0.5
8	☐	500000.00	499416.55	33850554.92	386.5447	A	2.4

$$y = 7.7399\text{E-}004 * x + 0.0027$$

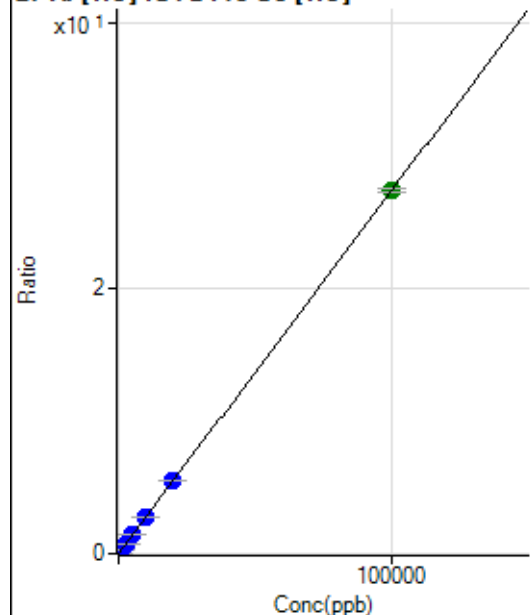
$$R = 1.0000$$

$$DL = 3.127$$

$$BEC = 3.465$$

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	43.33	0.0005	P	13.6
2	☐	20.000	17.717	478.28	0.0053	P	1.8
3	☐	1000.000	1022.762	25216.06	0.2806	P	1.0
4	☐	2500.000	2558.991	62552.85	0.7013	P	1.0
5	☐	5000.000	5099.533	124768.93	1.3971	P	0.7
6	☐	10000.000	10147.117	246646.39	2.7794	P	0.9
7	☐	20000.000	19994.025	498253.49	5.4761	P	0.9
8	☐	100000.00	99979.805	2397853.27	27.3814	A	1.1

$$y = 2.7386\text{E-}004 * x + 4.8555\text{E-}004$$

$$R = 1.0000$$

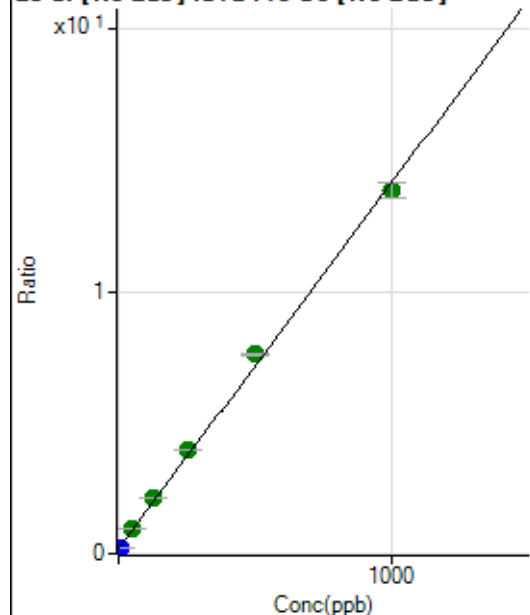
$$DL = 0.7218$$

$$BEC = 1.773$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	588398.95	0.1919	P	0.6
2	☐	10.000	0.147	612095.67	0.1940	P	2.6
3	☐	50.000	53.522	3005385.31	0.9380	A	1.0
4	☐	125.000	137.467	6720279.67	2.1082	A	0.5
5	☐	250.000	269.655	12625265.21	3.9510	A	1.2
6	☐	500.000	530.769	24350048.46	7.5910	A	1.1
7	☐	1000.000	978.066	44639945.44	13.8264	A	4.3
8	☐			1099381.75	0.3518	A	4.2

$$y = 0.0139 * x + 0.1919$$

$$R = 0.9988$$

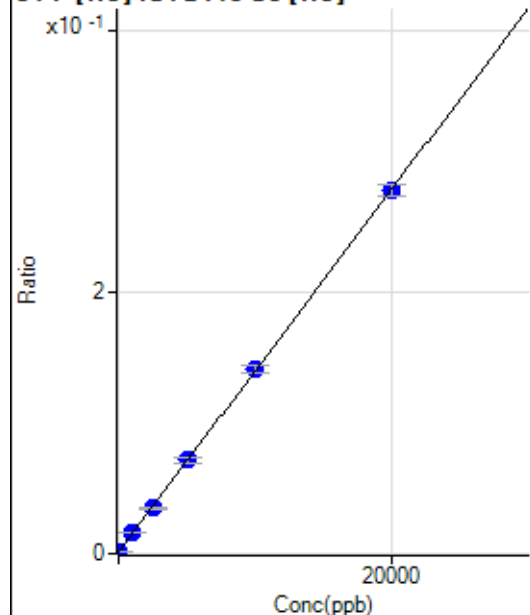
$$DL = 0.2299$$

$$BEC = 13.77$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-1.074	105.56	0.0012	P	31.4
2	☐	0.000	1.074	108.34	0.0012	P	48.8
3	☐	1000.000	1092.622	1469.56	0.0163	P	5.8
4	☐	2500.000	2423.028	3103.19	0.0348	P	4.9
5	☐	5000.000	5071.538	6387.73	0.0715	P	6.0
6	☐	10000.000	10115.360	12555.74	0.1414	P	3.9
7	☐	20000.000	19929.426	25247.64	0.2775	P	3.2
8	☐			119.45	0.0014	P	21.4

$$y = 1.3864E-005 * x + 0.0012$$

$$R = 0.9999$$

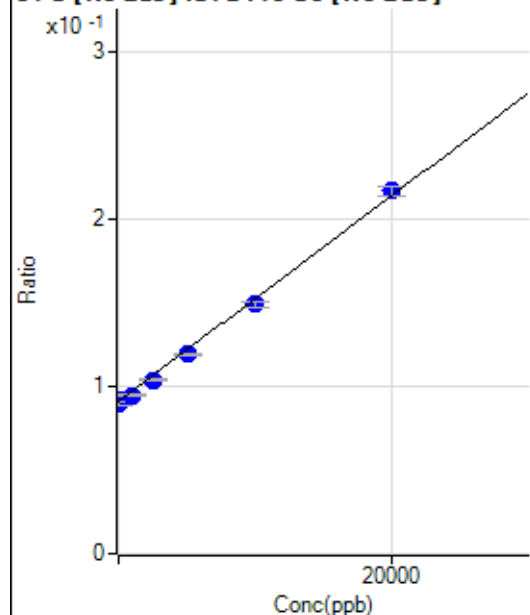
$$DL = 104.2$$

$$BEC = 86.35$$

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	178.983	283025.68	0.0923	P	1.0
2	☐	0.000	-178.983	284374.73	0.0901	P	2.7
3	☐	1000.000	572.058	303481.06	0.0947	P	1.4
4	☐	2500.000	2052.625	330934.05	0.1038	P	0.6
5	☐	5000.000	4539.996	380573.16	0.1191	P	0.8
6	☐	10000.000	9462.134	478984.98	0.1493	P	2.2
7	☐	20000.000	20461.253	700491.74	0.2169	P	2.9
8	☐			264287.44	0.0846	P	2.2

$$y = 6.1433\text{E-}006 * x + 0.0912$$

$$R = 0.9990$$

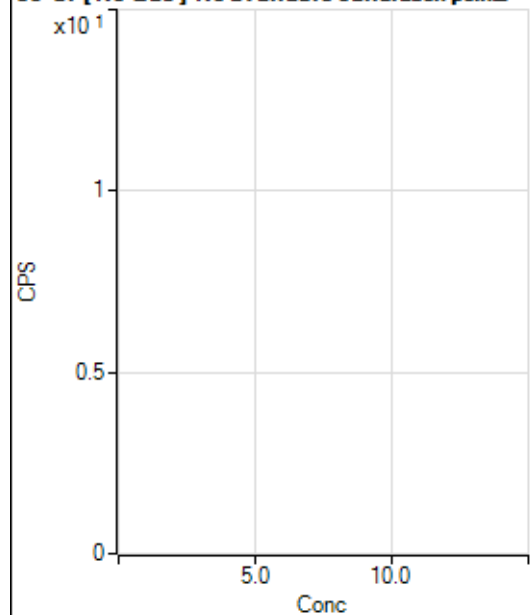
$$DL = 808.7$$

$$BEC = 1.485\text{E}+04$$

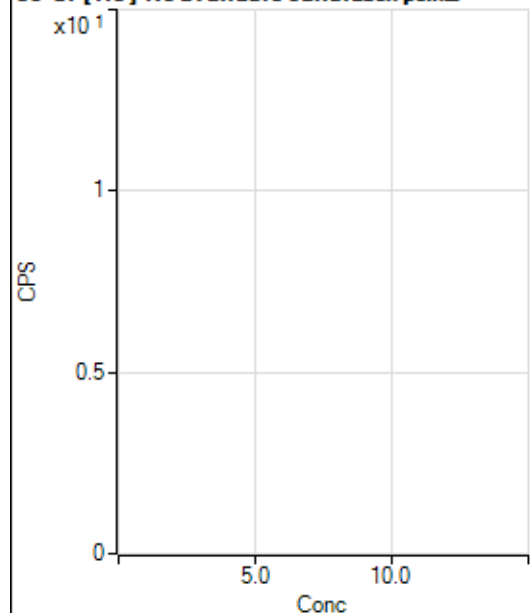
Weight: <None>

Min Conc: 0

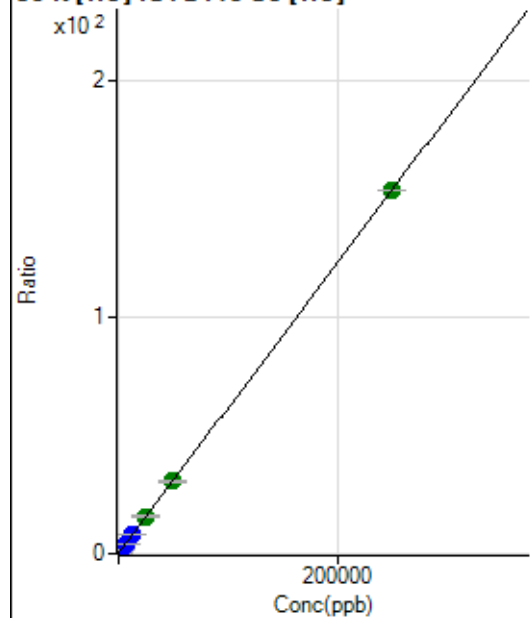
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			230854.86		P	0.3
2	☐			208839.93		P	1.9
3	☐			205921.24		P	1.3
4	☐			195748.03		P	1.0
5	☐			189204.19		P	1.0
6	☐			183663.88		P	0.7
7	☐			182431.71		P	0.7
8	☐			179526.17		P	0.6

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1439.00		P	9.4
2	☐			1225.08		P	14.0
3	☐			1250.09		P	0.7
4	☐			1119.52		P	3.7
5	☐			1097.29		P	13.8
6	☐			922.27		P	5.8
7	☐			1019.50		P	8.4
8	☐			963.95		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13175.81	0.1478	P	0.3
2	☐	500.000	468.145	38992.19	0.4352	P	2.5
3	☐	2500.000	2533.889	153123.39	1.7038	P	0.7
4	☐	6250.000	6363.238	361714.21	4.0553	P	0.4
5	☐	12500.000	12609.068	704707.57	7.8907	P	0.6
6	☐	25000.000	25541.282	1404852.42	15.8322	A	2.5
7	☐	50000.000	49823.140	2797202.58	30.7432	A	1.6
8	☐	250000.00	249972.68	13455802.21	153.6513	A	0.1

$$y = 6.1408E-004 * x + 0.1478$$

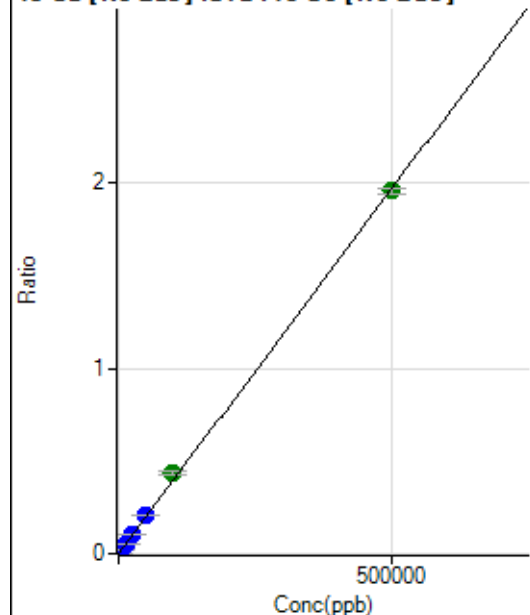
$$R = 1.0000$$

$$DL = 2.014$$

$$BEC = 240.6$$

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	132.90	0.0000	P	13.0
2	☐	500.000	467.904	5941.75	0.0019	P	3.1
3	☐	5000.000	5179.855	65383.14	0.0204	P	0.9
4	☐	12500.000	13197.955	165529.25	0.0519	P	0.4
5	☐	25000.000	26591.192	334184.23	0.1046	P	0.9
6	☐	50000.000	53125.113	670023.72	0.2089	P	1.8
7	☐	100000.00	110480.14	1402822.07	0.4344	A	3.0
8	☐	500000.00	497492.68	6113128.16	1.9558	A	1.5

$$y = 3.9312\text{E-}006 * x + 4.3354\text{E-}005$$

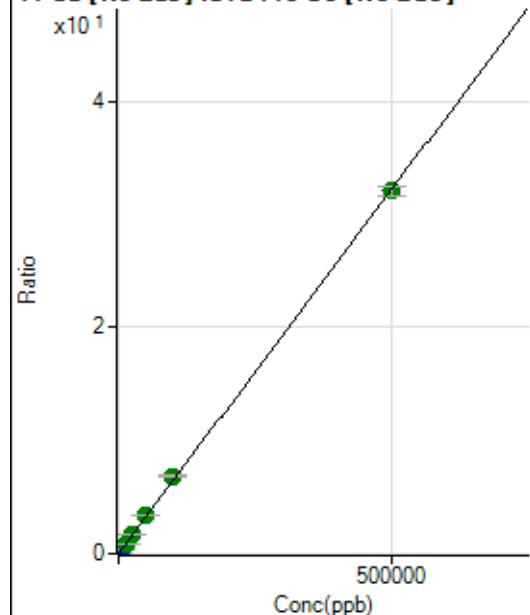
$$R = 0.9998$$

$$DL = 4.303$$

$$BEC = 11.03$$

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	10419.58	0.0034	P	2.8
2	☐	500.000	467.220	105547.51	0.0335	P	3.7
3	☐	5000.000	5181.993	1078765.39	0.3367	P	1.7
4	☐	12500.000	13187.365	2714879.47	0.8516	A	3.0
5	☐	25000.000	25758.697	5305282.73	1.6602	A	1.1
6	☐	50000.000	52302.598	10802610.52	3.3676	A	1.0
7	☐	100000.00	106776.64	22185450.19	6.8714	A	4.6
8	☐	500000.00	498357.50	100195247.4	32.0585	A	2.6

$$y = 6.4322\text{E-}005 * x + 0.0034$$

$$R = 0.9999$$

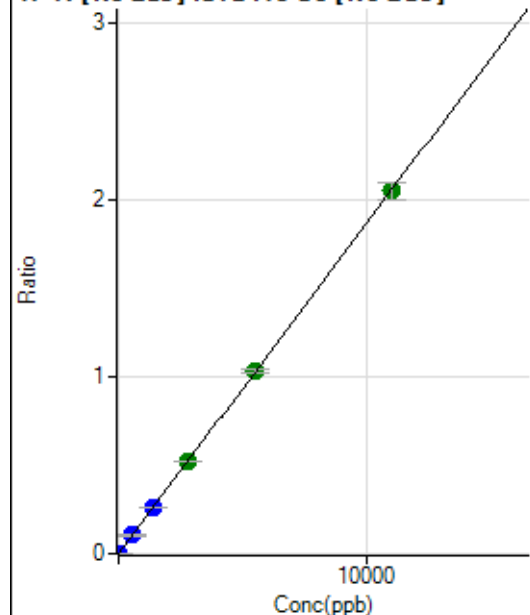
$$DL = 4.407$$

$$BEC = 52.83$$

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	116.67	0.0000	P	7.0
2	☐	5.000	5.008	3075.41	0.0010	P	2.9
3	☐	550.000	554.257	332228.61	0.1037	P	1.5
4	☐	1375.000	1417.520	845133.32	0.2651	P	0.9
5	☐	2750.000	2786.859	1665464.14	0.5212	A	0.7
6	☐	5500.000	5519.257	3311174.58	1.0322	A	1.9
7	☐	11000.000	10975.629	6626359.05	2.0526	A	4.6
8	☐			2381.37	0.0008	P	38.8

$$y = 1.8701E-004 * x + 3.8048E-005$$

$$R = 1.0000$$

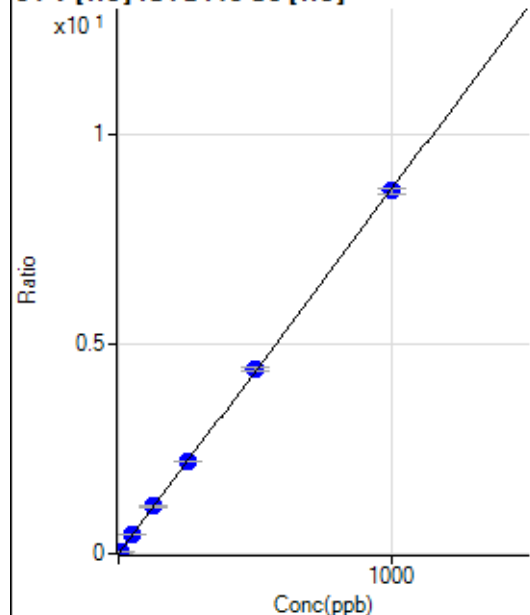
$$DL = 0.04278$$

$$BEC = 0.2035$$

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	3.33	0.0000	P	100.1
2	☐	5.000	4.964	3871.67	0.0432	P	4.6
3	☐	50.000	51.385	40175.22	0.4470	P	1.9
4	☐	125.000	129.447	100446.20	1.1261	P	1.3
5	☐	250.000	252.994	196555.03	2.2009	P	0.7
6	☐	500.000	506.498	391020.90	4.4062	P	1.2
7	☐	1000.000	995.377	787875.32	8.6591	P	1.4
8	☐			183.34	0.0021	P	15.0

$$y = 0.0087 * x + 3.7226E-005$$

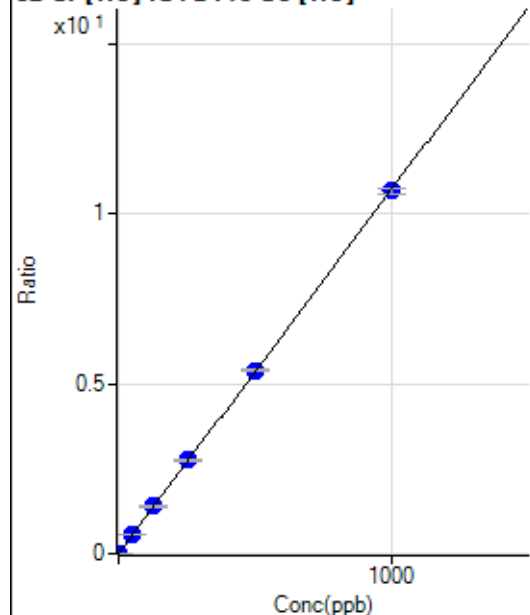
$$R = 1.0000$$

$$DL = 0.01284$$

$$BEC = 0.004279$$

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	55.56	0.0006	P	33.6
2	☐	2.000	1.889	1870.14	0.0209	P	3.1
3	☐	50.000	51.810	49974.70	0.5561	P	2.5
4	☐	125.000	129.970	124354.90	1.3942	P	1.2
5	☐	250.000	256.373	245555.17	2.7495	P	0.7
6	☐	500.000	503.482	479130.39	5.3990	P	0.4
7	☐	1000.000	995.954	971701.40	10.6794	P	1.7
8	☐			1730.12	0.0198	P	3.5

$$y = 0.0107 * x + 6.2230E-004$$

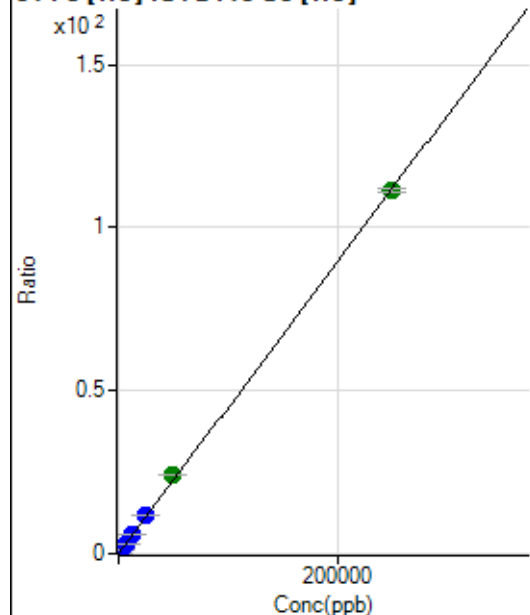
$$R = 1.0000$$

$$DL = 0.05859$$

$$BEC = 0.05804$$

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	312.97	0.0035	P	5.5
2	☐	50.000	53.232	2444.70	0.0273	P	3.8
3	☐	2500.000	2691.735	108342.80	1.2055	P	0.8
4	☐	6250.000	6798.729	271113.55	3.0395	P	0.4
5	☐	12500.000	13205.037	526955.50	5.9003	P	0.7
6	☐	25000.000	26494.364	1050300.96	11.8348	P	1.0
7	☐	50000.000	53809.442	2186784.58	24.0326	A	1.1
8	☐	250000.00	249037.78	9739418.62	111.2135	A	1.0

$$y = 4.4656E-004 * x + 0.0035$$

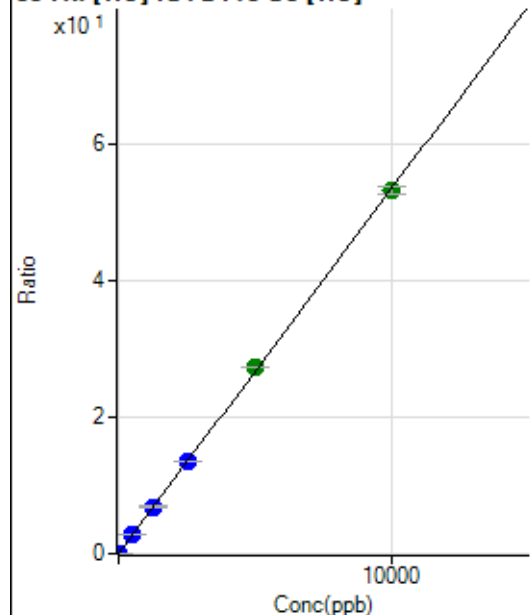
$$R = 0.9999$$

$$DL = 1.3$$

$$BEC = 7.86$$

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	76.66	0.0009	P	14.4
2	☐	1.000	1.092	601.13	0.0067	P	9.1
3	☐	500.000	515.357	248213.94	2.7619	P	1.1
4	☐	1250.000	1288.731	615923.91	6.9053	P	1.0
5	☐	2500.000	2531.599	1211367.46	13.5641	P	0.5
6	☐	5000.000	5090.885	2420617.41	27.2756	A	0.1
7	☐	10000.000	9941.049	4846048.16	53.2607	A	2.2
8	☐			2927.01	0.0334	P	6.0

$$y = 0.0054 * x + 8.5910E-004$$

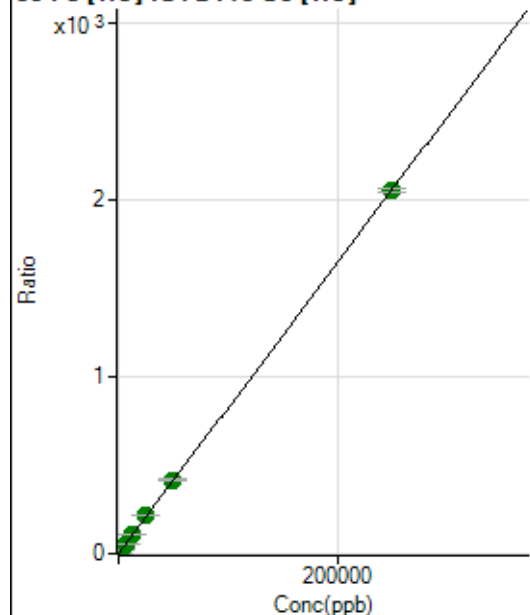
$$R = 0.9999$$

$$DL = 0.06936$$

$$BEC = 0.1604$$

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	1981.65	0.0222	P	11.3
2	☐	50.000	48.830	37952.51	0.4236	P	1.5
3	☐	2500.000	2713.337	2005979.20	22.3233	A	2.4
4	☐	6250.000	6680.491	4899472.74	54.9295	A	1.4
5	☐	12500.000	13146.606	9652186.56	108.0748	A	1.5
6	☐	25000.000	26068.224	19017587.69	214.2782	A	0.8
7	☐	50000.000	50592.645	37835705.94	415.8456	A	1.7
8	☐	250000.00	249729.42	179747902.1	2,052.560	A	1.1

$$y = 0.0082 * x + 0.0222$$

$$R = 1.0000$$

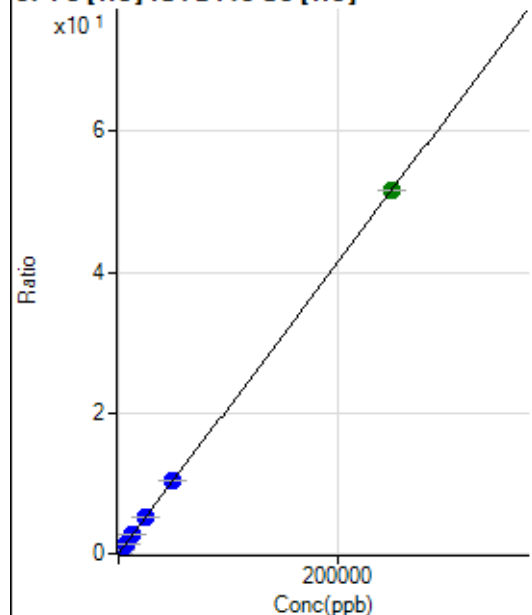
$$DL = 0.9202$$

$$BEC = 2.705$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	179.63	0.0020	P	23.1
2	☐	50.000	47.103	1051.91	0.0117	P	12.6
3	☐	2500.000	2604.856	48486.14	0.5396	P	2.9
4	☐	6250.000	6572.579	121164.05	1.3584	P	0.2
5	☐	12500.000	12883.035	237620.22	2.6607	P	0.4
6	☐	25000.000	25509.770	467362.61	5.2665	P	0.8
7	☐	50000.000	50457.876	947619.64	10.4151	P	1.5
8	☐	250000.00	249829.18	4515266.36	51.5597	A	0.1

$$y = 2.0637E-004 * x + 0.0020$$

$$R = 1.0000$$

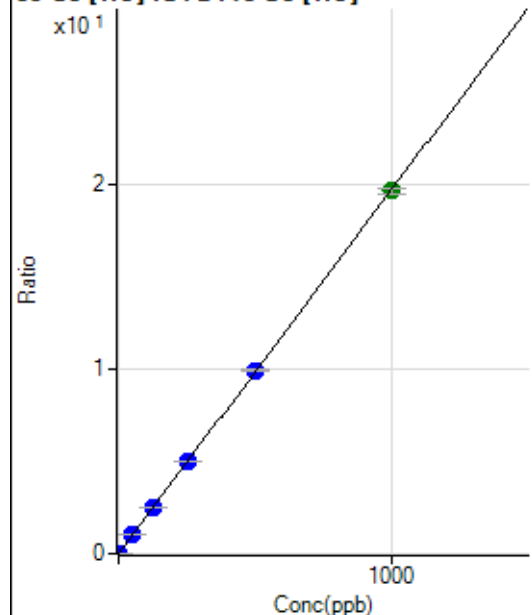
$$DL = 6.764$$

$$BEC = 9.761$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	52.22	0.0006	P	21.8
2	☐	1.000	1.004	1826.80	0.0204	P	6.8
3	☐	50.000	51.083	90658.50	1.0088	P	0.8
4	☐	125.000	129.005	227144.82	2.5466	P	0.6
5	☐	250.000	252.324	444784.48	4.9804	P	0.6
6	☐	500.000	503.784	882388.99	9.9431	P	0.4
7	☐	1000.000	996.972	1790351.00	19.6766	A	1.3
8	☐			2534.71	0.0289	P	8.7

$$y = 0.0197 * x + 5.8504E-004$$

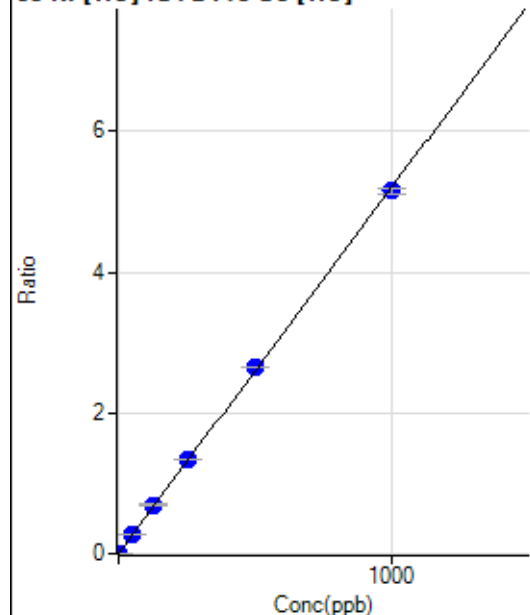
$$R = 1.0000$$

$$DL = 0.01943$$

$$BEC = 0.02964$$

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	193.34	0.0022	P	18.4
2	☐	1.000	0.958	640.02	0.0071	P	7.3
3	☐	50.000	53.376	25121.11	0.2795	P	0.6
4	☐	125.000	132.352	61534.73	0.6899	P	2.2
5	☐	250.000	259.267	120507.78	1.3494	P	0.3
6	☐	500.000	510.569	235626.76	2.6552	P	0.5
7	☐	1000.000	991.311	468877.51	5.1532	P	1.3
8	☐			764.47	0.0087	P	3.8

$$y = 0.0052 * x + 0.0022$$

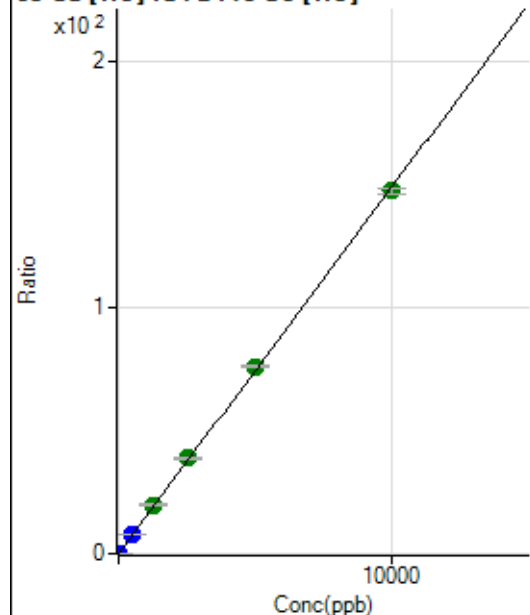
$$R = 0.9999$$

$$DL = 0.2301$$

$$BEC = 0.4169$$

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	394.46	0.0044	P	7.6
2	☐	2.000	2.161	3281.53	0.0366	P	1.0
3	☐	500.000	528.665	708241.57	7.8809	P	1.4
4	☐	1250.000	1337.629	1777984.87	19.9336	A	0.9
5	☐	2500.000	2618.581	3484369.70	39.0183	A	2.2
6	☐	5000.000	5099.113	6742063.51	75.9753	A	1.1
7	☐	10000.000	9908.411	13432034.80	147.6283	A	1.7
8	☐			4846.50	0.0553	P	10.8

$$y = 0.0149 * x + 0.0044$$

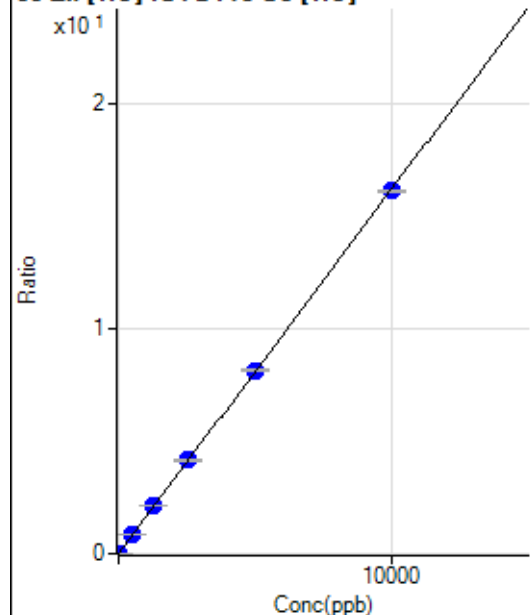
$$R = 0.9998$$

$$DL = 0.06754$$

$$BEC = 0.2969$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0009	P	12.7
2	☐	2.000	2.584	453.35	0.0051	P	10.4
3	☐	500.000	518.947	75691.10	0.8421	P	0.5
4	☐	1250.000	1313.838	190055.21	2.1308	P	1.1
5	☐	2500.000	2559.774	370672.24	4.1506	P	0.9
6	☐	5000.000	5034.764	724390.71	8.1629	P	0.9
7	☐	10000.000	9958.747	1469035.19	16.1452	P	0.5
8	☐			1649.00	0.0188	P	6.3

$$y = 0.0016 * x + 8.7246E-004$$

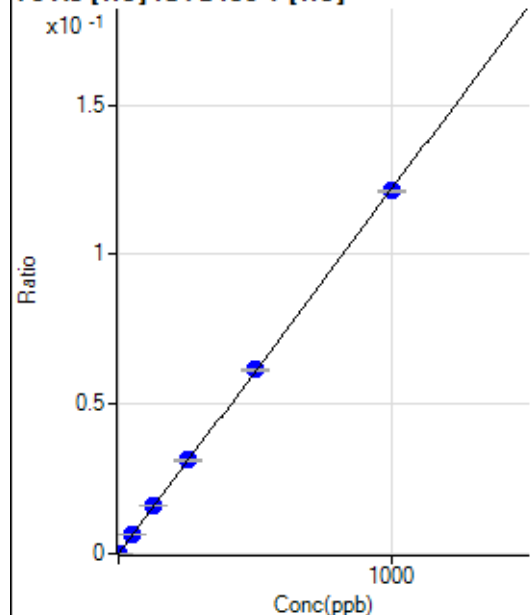
$$R = 1.0000$$

$$DL = 0.2052$$

$$BEC = 0.5382$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2.67	0.0000	P	77.4
2	☐	1.000	1.156	107.68	0.0001	P	11.3
3	☐	50.000	51.395	4690.26	0.0063	P	1.1
4	☐	125.000	130.440	11808.78	0.0159	P	1.3
5	☐	250.000	257.194	23219.67	0.0313	P	1.7
6	☐	500.000	503.943	45475.25	0.0614	P	1.3
7	☐	1000.000	995.480	91792.92	0.1212	P	0.4
8	☐			37.67	0.0001	P	17.4

$$y = 1.2176E-004 * x + 3.5689E-006$$

$$R = 1.0000$$

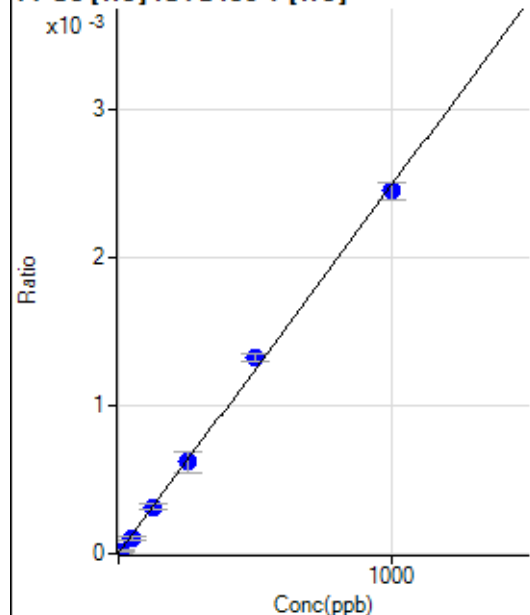
$$DL = 0.06802$$

$$BEC = 0.02931$$

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	2.22	0.0000	P	86.6
2	☐	5.000	5.969	13.34	0.0000	P	42.9
3	☐	50.000	41.693	80.00	0.0001	P	29.8
4	☐	125.000	126.188	235.56	0.0003	P	12.5
5	☐	250.000	248.569	461.13	0.0006	P	23.9
6	☐	500.000	531.347	982.27	0.0013	P	3.7
7	☐	1000.000	984.946	1857.92	0.0025	P	4.4
8	☐			0.00	0.0000	P	

$$y = 2.4886\text{E-}006 * x + 2.9759\text{E-}006$$

$$R = 0.9992$$

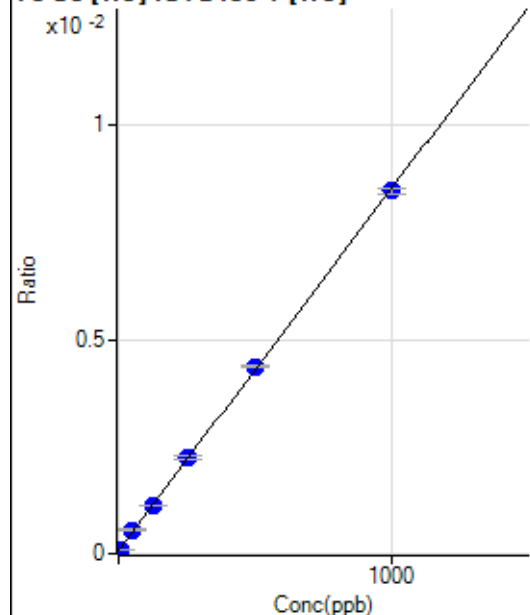
$$DL = 3.107$$

$$BEC = 1.196$$

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	56.68	0.0001	P	4.2
2	☐	5.000	2.987	75.68	0.0001	P	4.6
3	☐	50.000	56.488	414.05	0.0006	P	4.9
4	☐	125.000	124.632	838.44	0.0011	P	2.6
5	☐	250.000	256.575	1661.94	0.0022	P	3.0
6	☐	500.000	508.549	3237.37	0.0044	P	0.9
7	☐	1000.000	993.813	6409.44	0.0085	P	1.8
8	☐			53.01	0.0001	P	17.0

$$y = 8.4399\text{E-}006 * x + 7.6141\text{E-}005$$

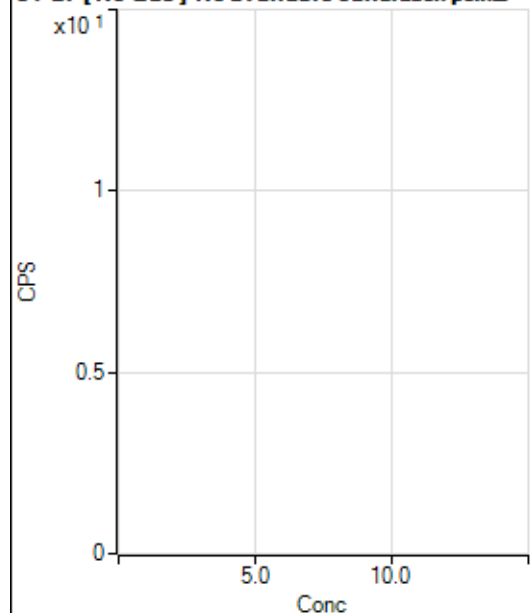
$$R = 0.9999$$

$$DL = 1.137$$

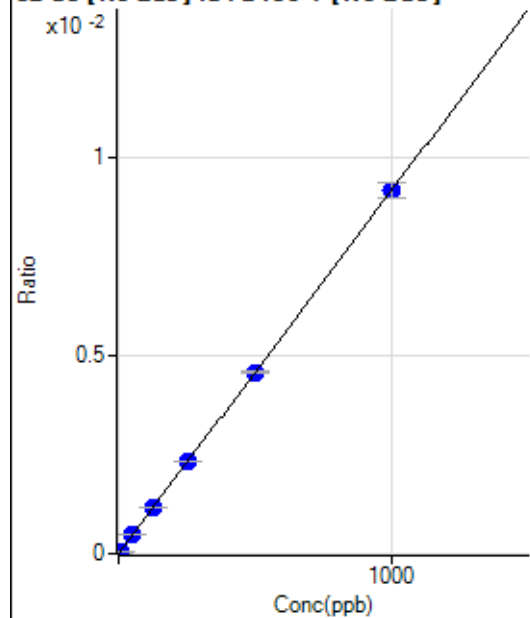
$$BEC = 9.022$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			26482.52		P	0.9
2	☐			26238.50		P	0.1
3	☐			26529.63		P	4.9
4	☐			25472.80		P	0.3
5	☐			25095.16		P	3.4
6	☐			25563.21		P	0.8
7	☐			25453.10		P	3.6
8	☐			25579.70		P	4.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-10.89	0.0000	P	-432.
2	☐	5.000	5.688	376.02	0.0001	P	7.9
3	☐	50.000	51.243	3370.34	0.0005	P	1.3
4	☐	125.000	128.188	8544.78	0.0012	P	1.9
5	☐	250.000	253.199	16747.90	0.0023	P	1.1
6	☐	500.000	498.776	33595.45	0.0046	P	1.3
7	☐	1000.000	999.348	68172.70	0.0091	P	4.3
8	☐			47.11	0.0000	P	126.4

$$y = 9.1562E-006 * x - 1.5179E-006$$

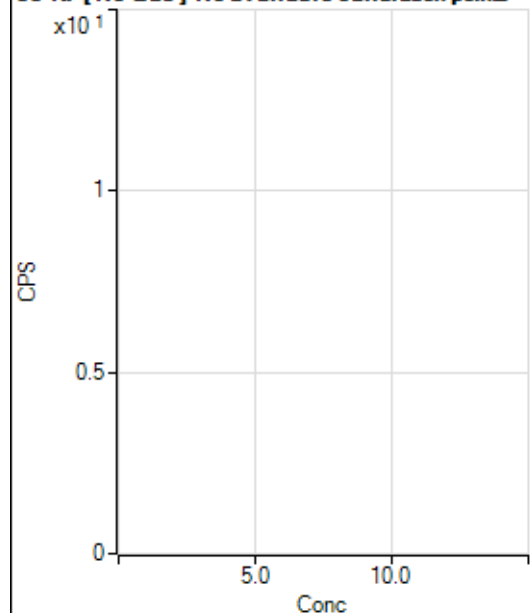
$$R = 1.0000$$

$$DL = 2.153$$

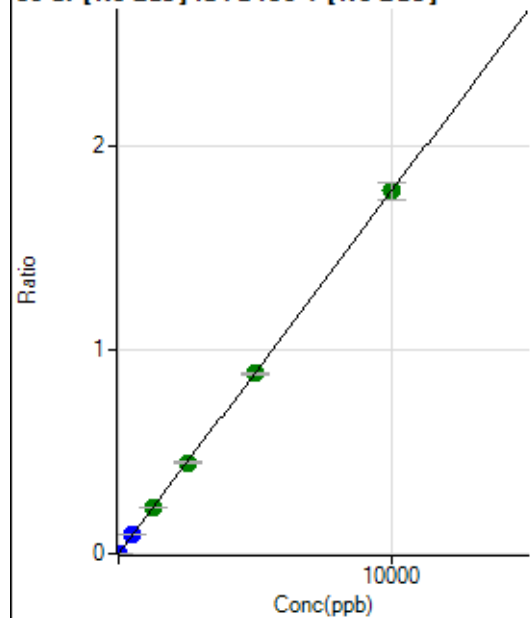
$$BEC = -0.1658$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			690.02		P	8.9
2	☐			632.24		P	4.8
3	☐			666.69		P	3.0
4	☐			683.36		P	2.1
5	☐			724.47		P	8.0
6	☐			654.47		P	1.6
7	☐			673.36		P	5.6
8	☐			751.14		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1116.75	0.0002	P	3.4
2	☐	1.000	0.849	2280.80	0.0003	P	7.2
3	☐	500.000	519.846	667275.44	0.0926	P	1.8
4	☐	1250.000	1267.046	1643642.69	0.2255	A	2.4
5	☐	2500.000	2496.504	3210278.09	0.4441	A	2.1
6	☐	5000.000	4973.720	6510803.49	0.8847	A	1.2
7	☐	10000.000	10010.891	13267728.08	1.7805	A	4.6
8	☐			11769.84	0.0016	P	13.9

$$y = 1.7784E-004 * x + 1.5573E-004$$

$$R = 1.0000$$

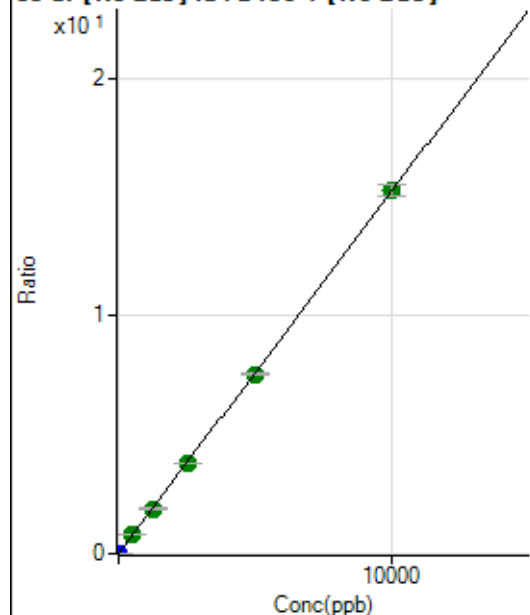
$$DL = 0.08959$$

$$BEC = 0.8757$$

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	172.23	0.0000	P	17.0
2	☐	1.000	0.950	10943.44	0.0015	P	6.0
3	☐	500.000	506.409	5560471.87	0.7716	A	0.4
4	☐	1250.000	1245.169	13830959.34	1.8972	A	1.9
5	☐	2500.000	2514.419	27693292.29	3.8311	A	0.6
6	☐	5000.000	4958.001	55593460.97	7.5542	A	0.3
7	☐	10000.000	10017.678	113774755.3	15.2633	A	3.2
8	☐			94062.39	0.0131	P	9.7

$$y = 0.0015 * x + 2.3979E-005$$

$$R = 1.0000$$

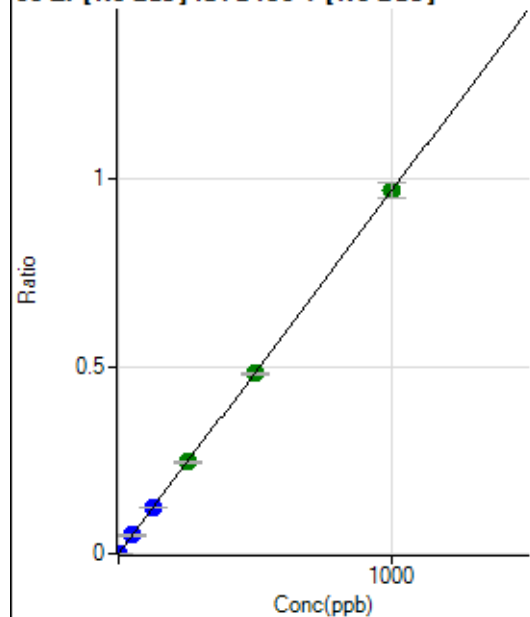
$$DL = 0.008049$$

$$BEC = 0.01574$$

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	358.35	0.0000	P	6.4
2	☐	1.000	0.851	6507.26	0.0009	P	3.6
3	☐	50.000	50.376	352150.79	0.0489	P	1.5
4	☐	125.000	127.000	897693.01	0.1231	P	1.0
5	☐	250.000	251.966	1765526.08	0.2442	A	1.4
6	☐	500.000	497.693	3550015.75	0.4824	A	1.1
7	☐	1000.000	1000.393	7224899.55	0.9696	A	4.2
8	☐			4556.47	0.0006	P	15.9

$$y = 9.6915E-004 * x + 4.9921E-005$$

$$R = 1.0000$$

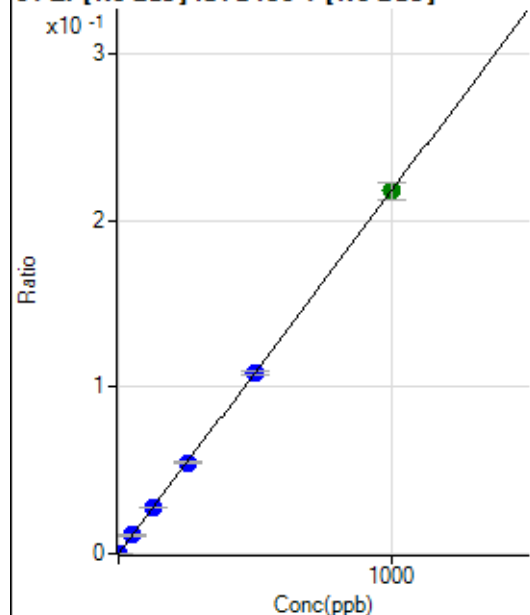
$$DL = 0.009821$$

$$BEC = 0.05151$$

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	61.11	0.0000	P	42.7
2	☐	1.000	0.884	1491.79	0.0002	P	11.7
3	☐	50.000	50.539	79270.44	0.0110	P	1.3
4	☐	125.000	127.071	201545.42	0.0276	P	1.5
5	☐	250.000	251.334	395220.48	0.0547	P	1.9
6	☐	500.000	498.951	798623.48	0.1085	P	1.6
7	☐	1000.000	999.905	1620272.26	0.2175	A	5.0
8	☐			936.17	0.0001	P	13.2

$$y = 2.1750\text{E-}004 * x + 8.5008\text{E-}006$$

$$R = 1.0000$$

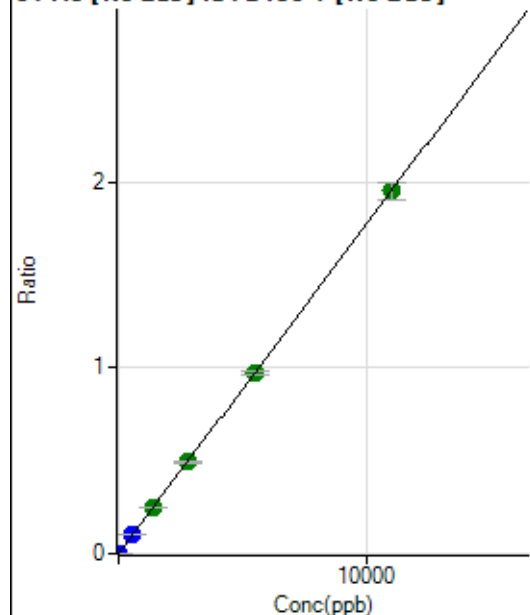
$$DL = 0.05012$$

$$BEC = 0.03909$$

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	152.78	0.0000	P	54.0
2	☐	5.000	5.885	7933.01	0.0011	P	3.7
3	☐	550.000	571.238	730917.42	0.1014	P	1.9
4	☐	1375.000	1411.051	1826245.62	0.2505	A	1.6
5	☐	2750.000	2776.472	3563389.58	0.4929	A	1.0
6	☐	5500.000	5483.654	7163328.63	0.9735	A	2.9
7	☐	11000.000	10995.986	14543681.75	1.9521	A	5.0
8	☐			6299.10	0.0009	P	20.3

$$y = 1.7753\text{E-}004 * x + 2.1226\text{E-}005$$

$$R = 1.0000$$

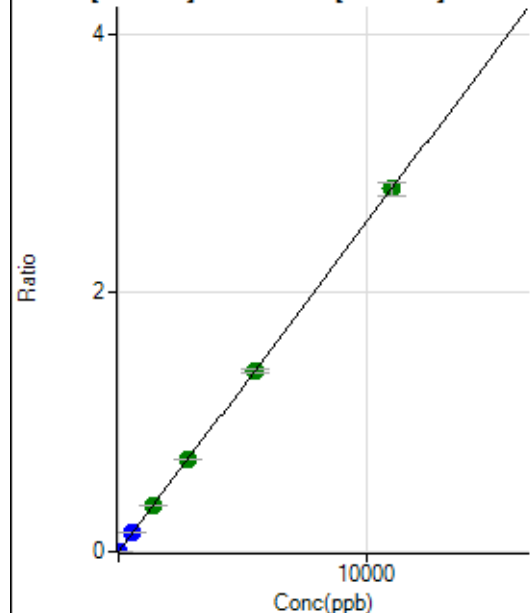
$$DL = 0.1937$$

$$BEC = 0.1196$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	5.56	0.0000	P	173.2
2	☐	5.000	4.937	9367.32	0.0013	P	6.0
3	☐	550.000	564.181	1036748.35	0.1438	P	1.8
4	☐	1375.000	1414.792	2630056.13	0.3607	A	0.5
5	☐	2750.000	2788.947	5140211.83	0.7111	A	0.6
6	☐	5500.000	5466.793	10256805.35	1.3939	A	1.9
7	☐	11000.000	11001.184	20903203.07	2.8050	A	3.9
8	☐			7998.18	0.0011	P	22.4

$$y = 2.5497\text{E-}004 * x + 7.6515\text{E-}007$$

$$R = 1.0000$$

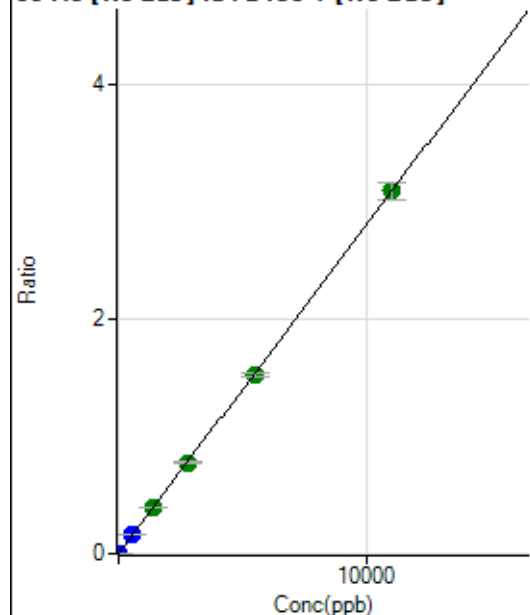
$$DL = 0.01559$$

$$BEC = 0.003001$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	141.67	0.0000	P	29.8
2	☐	5.000	4.956	10515.36	0.0014	P	1.6
3	☐	550.000	563.918	1142261.71	0.1585	P	0.3
4	☐	1375.000	1404.384	2877353.23	0.3947	A	1.5
5	☐	2750.000	2773.510	5634441.14	0.7795	A	0.9
6	☐	5500.000	5442.376	11254766.57	1.5295	A	2.1
7	☐	11000.000	11018.566	23073517.70	3.0966	A	4.5
8	☐			16690.02	0.0023	P	16.8

$$y = 2.8104\text{E-}004 * x + 1.9726\text{E-}005$$

$$R = 1.0000$$

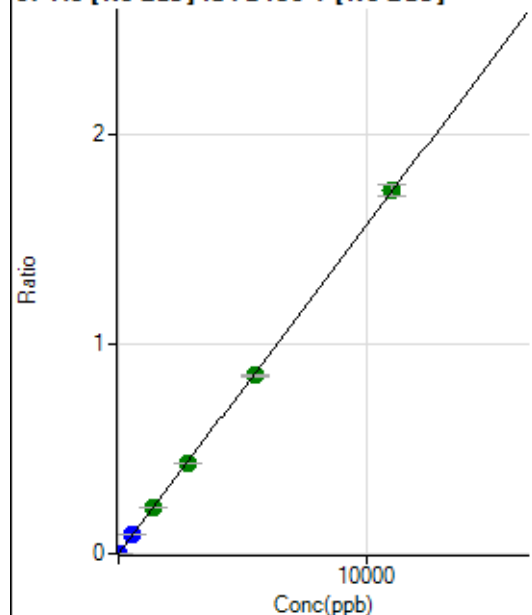
$$DL = 0.06275$$

$$BEC = 0.07019$$

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	25.00	0.0000	P	34.9
2	☐	5.000	4.798	5620.74	0.0008	P	5.4
3	☐	550.000	574.834	649348.73	0.0901	P	2.9
4	☐	1375.000	1400.531	1600810.97	0.2196	A	1.4
5	☐	2750.000	2755.589	3123089.09	0.4320	A	0.4
6	☐	5500.000	5414.463	6247352.01	0.8489	A	1.6
7	☐	11000.000	11036.938	12897542.04	1.7304	A	3.3
8	☐			5463.41	0.0008	P	23.3

$$y = 1.5679E-004 * x + 3.4973E-006$$

$$R = 0.9999$$

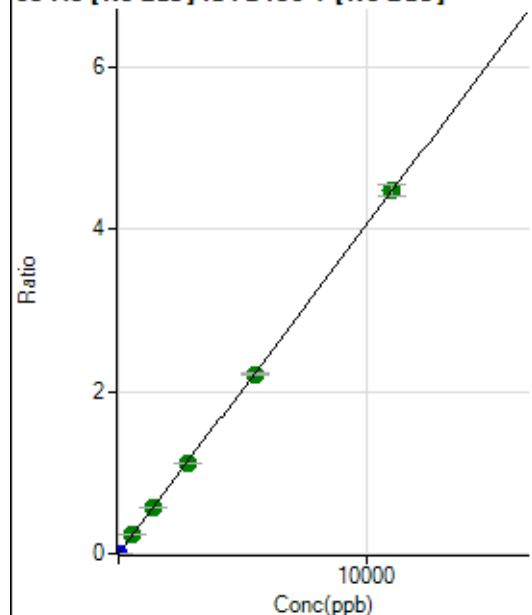
$$DL = 0.02335$$

$$BEC = 0.02231$$

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	25.00	0.0000	P	66.1
2	☐	5.000	4.773	14421.79	0.0019	P	3.1
3	☐	550.000	569.732	1664579.17	0.2310	A	1.0
4	☐	1375.000	1394.255	4121431.39	0.5653	A	0.4
5	☐	2750.000	2755.811	8076745.32	1.1173	A	0.4
6	☐	5500.000	5443.796	16242015.47	2.2072	A	1.2
7	☐	11000.000	11023.256	33311050.05	4.4693	A	3.3
8	☐			12975.45	0.0018	P	28.1

$$y = 4.0544E-004 * x + 3.4637E-006$$

$$R = 1.0000$$

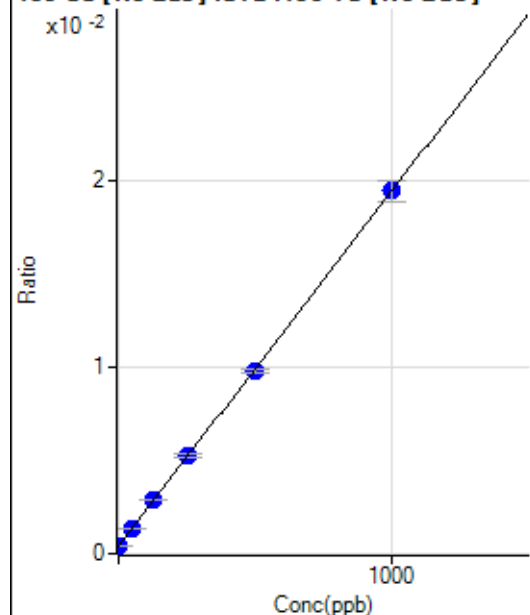
$$DL = 0.01693$$

$$BEC = 0.008543$$

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	1900.18	0.0004	P	11.2
2	☐	1.000	-0.413	1897.40	0.0004	P	6.3
3	☐	50.000	49.751	6357.22	0.0014	P	3.6
4	☐	125.000	129.235	13465.29	0.0029	P	0.8
5	☐	250.000	255.656	24909.16	0.0053	P	3.7
6	☐	500.000	493.418	47828.76	0.0098	P	1.9
7	☐	1000.000	1001.362	95128.07	0.0194	P	6.0
8	☐			1933.53	0.0004	P	1.0

$$y = 1.8976E-005 * x + 4.1384E-004$$

$$R = 0.9999$$

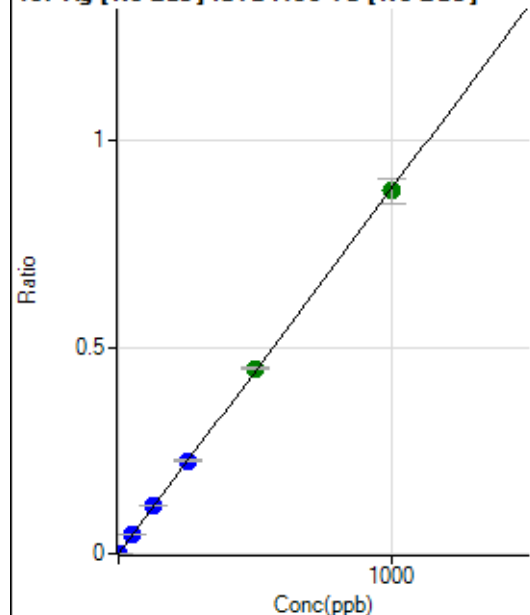
$$DL = 7.329$$

$$BEC = 21.81$$

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	66.67	0.0000	P	32.6
2	☐	1.000	0.963	4042.37	0.0009	P	5.9
3	☐	50.000	52.397	216902.16	0.0463	P	1.2
4	☐	125.000	131.492	546209.15	0.1163	P	1.2
5	☐	250.000	255.415	1068739.05	0.2258	P	1.4
6	☐	500.000	507.062	2193503.50	0.4483	A	1.1
7	☐	1000.000	994.184	4305646.62	0.8790	A	6.8
8	☐			1714.05	0.0004	P	10.6

$$y = 8.8412E-004 * x + 1.4502E-005$$

$$R = 0.9999$$

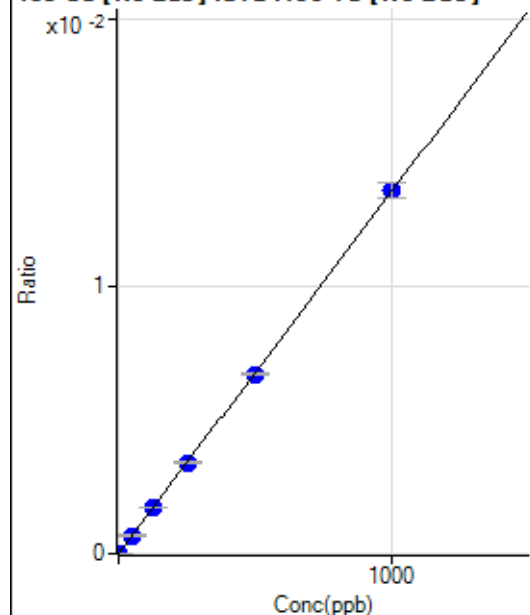
$$DL = 0.01602$$

$$BEC = 0.0164$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	18.06	0.0000	P	13.4
2	☐	1.000	0.809	69.45	0.0000	P	20.1
3	☐	50.000	49.399	3149.01	0.0007	P	3.6
4	☐	125.000	126.916	8092.77	0.0017	P	1.1
5	☐	250.000	251.333	16129.04	0.0034	P	1.0
6	☐	500.000	494.327	32766.87	0.0067	P	1.2
7	☐	1000.000	1002.294	66555.57	0.0136	P	4.3
8	☐			87.50	0.0000	P	1.2

$$y = 1.3542\text{E-}005 * x + 3.9324\text{E-}006$$

$$R = 1.0000$$

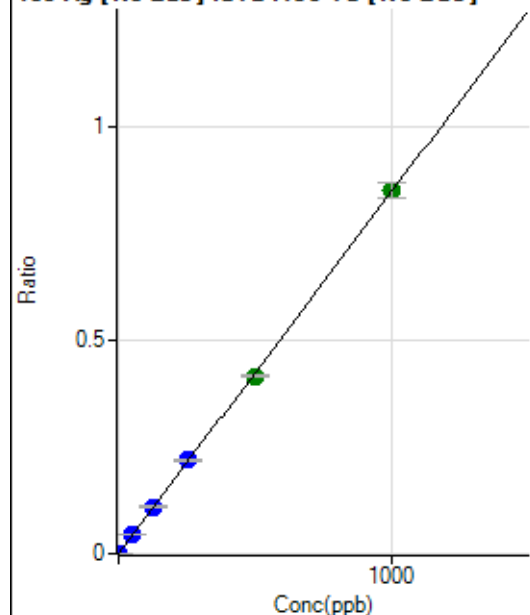
$$DL = 0.117$$

$$BEC = 0.2904$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	41.67	0.0000	P	53.0
2	☐	1.000	0.993	3970.13	0.0008	P	3.8
3	☐	50.000	52.194	206753.05	0.0442	P	3.6
4	☐	125.000	129.960	516730.79	0.1100	P	1.5
5	☐	250.000	259.186	1038105.70	0.2194	P	1.9
6	☐	500.000	489.587	2027324.79	0.4144	A	1.0
7	☐	1000.000	1002.180	4158018.58	0.8482	A	4.2
8	☐			1466.79	0.0003	P	10.0

$$y = 8.4633\text{E-}004 * x + 9.0728\text{E-}006$$

$$R = 0.9999$$

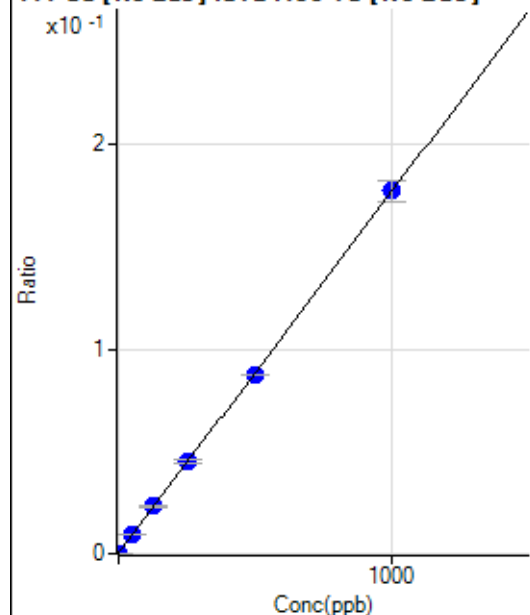
$$DL = 0.01704$$

$$BEC = 0.01072$$

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	1332.76	0.0003	P	11.9
2	☐	1.000	0.897	2096.28	0.0004	P	3.1
3	☐	50.000	51.225	43715.29	0.0093	P	3.2
4	☐	125.000	128.866	108338.64	0.0231	P	1.6
5	☐	250.000	254.256	213935.31	0.0452	P	3.0
6	☐	500.000	491.577	426371.04	0.0871	P	0.3
7	☐	1000.000	1002.603	869548.65	0.1774	P	5.5
8	☐			1588.06	0.0003	P	3.7

$$y = 1.7670\text{E-}004 * x + 2.9026\text{E-}004$$

$$R = 0.9999$$

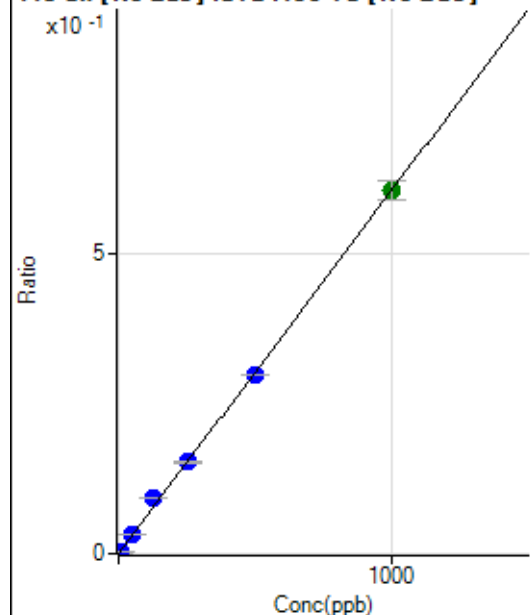
$$DL = 0.5853$$

$$BEC = 1.643$$

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	244.46	0.0001	P	8.1
2	☐	5.000	5.052	14485.85	0.0031	P	3.9
3	☐	50.000	51.366	145333.08	0.0310	P	3.6
4	☐	125.000	154.867	439248.71	0.0935	P	1.6
5	☐	250.000	253.518	724177.17	0.1530	P	1.9
6	☐	500.000	491.981	1452735.81	0.2969	P	0.4
7	☐	1000.000	999.328	2955684.35	0.6031	A	5.1
8	☐			1766.87	0.0004	P	12.8

$$y = 6.0344\text{E-}004 * x + 5.3219\text{E-}005$$

$$R = 0.9995$$

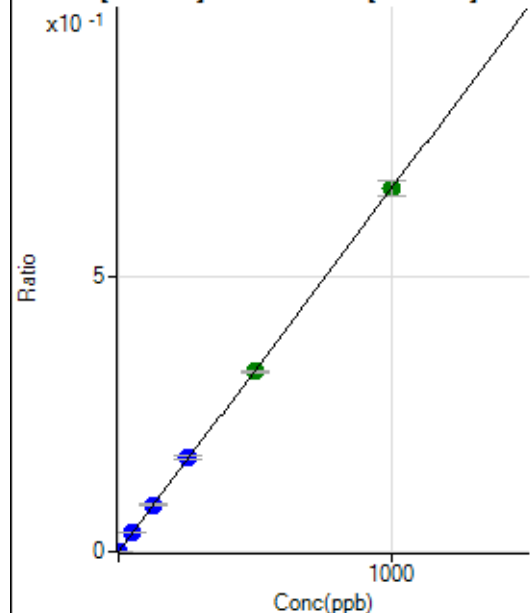
$$DL = 0.02141$$

$$BEC = 0.08819$$

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	22.22	0.0000	P	57.5
2	☐	2.000	1.872	5781.94	0.0012	P	2.4
3	☐	50.000	51.066	157415.06	0.0336	P	1.9
4	☐	125.000	129.396	400286.98	0.0852	P	2.2
5	☐	250.000	259.165	807568.41	0.1707	P	2.4
6	☐	500.000	495.870	1597552.51	0.3265	A	0.8
7	☐	1000.000	999.171	3225721.08	0.6580	A	4.3
8	☐			3531.13	0.0008	P	6.1

$$y = 6.5852E-004 * x + 4.8396E-006$$

$$R = 0.9999$$

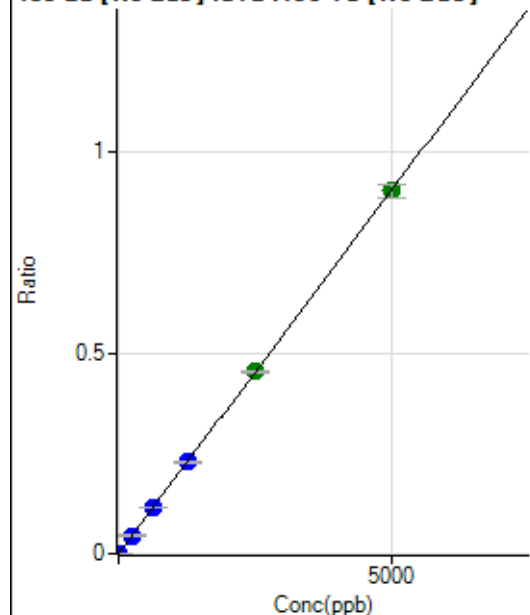
$$DL = 0.01267$$

$$BEC = 0.007349$$

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	13.89	0.0000	P	68.8
2	☐	10.000	9.204	7805.26	0.0017	P	2.7
3	☐	250.000	248.972	211134.88	0.0451	P	2.2
4	☐	625.000	637.548	542651.05	0.1155	P	1.7
5	☐	1250.000	1260.910	1081031.15	0.2285	P	2.4
6	☐	2500.000	2506.057	2221303.24	0.4541	A	1.2
7	☐	5000.000	4992.728	4435508.96	0.9046	A	3.6
8	☐			2525.46	0.0005	P	29.7

$$y = 1.8118E-004 * x + 3.0175E-006$$

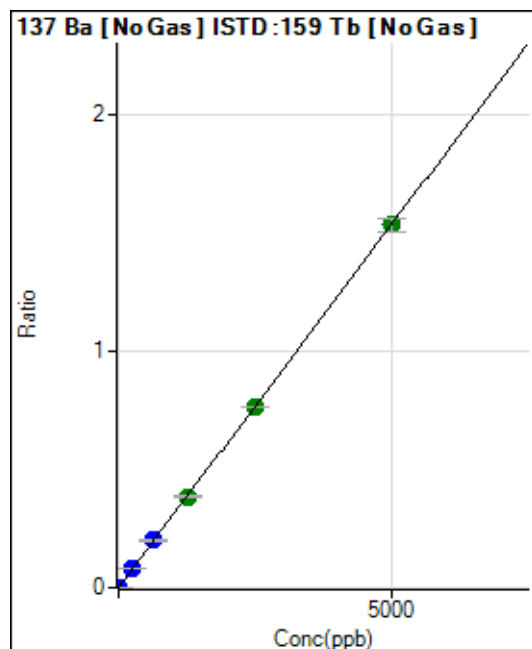
$$R = 1.0000$$

$$DL = 0.03438$$

$$BEC = 0.01665$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	88.1
2	☐	10.000	9.447	13571.09	0.0029	P	2.8
3	☐	250.000	254.322	365430.92	0.0781	P	1.9
4	☐	625.000	649.105	936125.44	0.1993	P	2.1
5	☐	1250.000	1254.946	1823240.49	0.3853	A	1.4
6	☐	2500.000	2497.982	3751732.77	0.7668	A	0.2
7	☐	5000.000	4996.544	7520655.81	1.5339	A	3.7
8	☐			4505.27	0.0010	P	32.9

$$y = 3.0699\text{E-}004 * x + 5.4310\text{E-}006$$

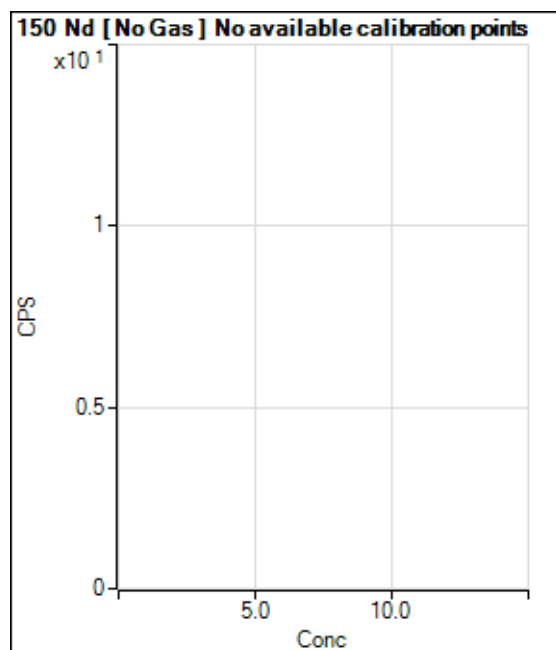
$$R = 1.0000$$

$$DL = 0.04676$$

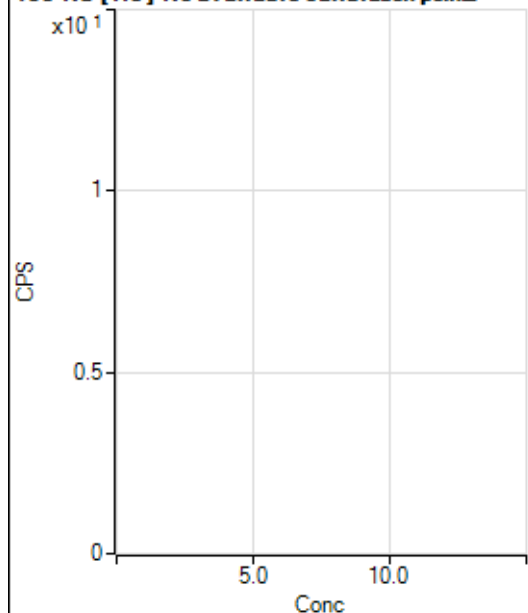
$$BEC = 0.01769$$

Weight: <None>

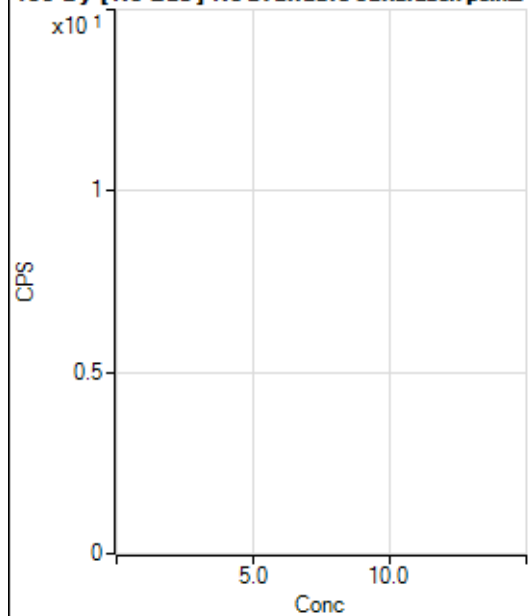
Min Conc: 0



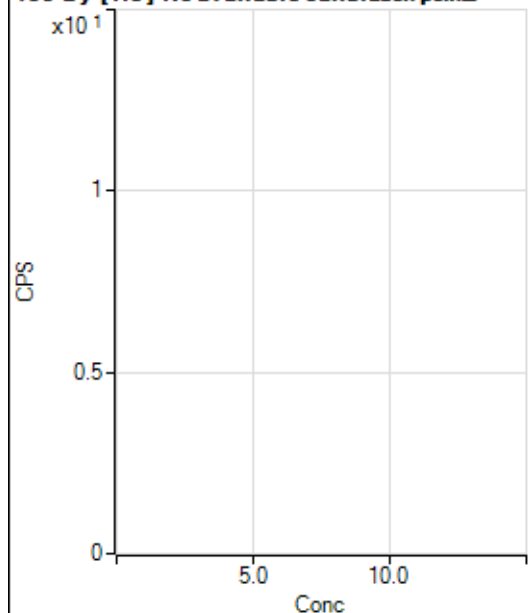
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			6.67		P	100.0
2	☐			4.44		P	173.2
3	☐			26.66		P	43.3
4	☐			42.22		P	55.5
5	☐			88.89		P	28.4
6	☐			177.78		P	15.6
7	☐			348.90		P	20.4
8	☐			31.11		P	44.6

150 Nd [He] No available calibration points

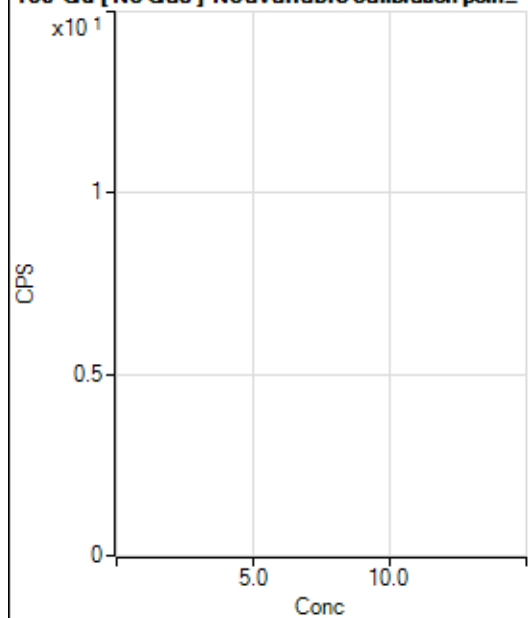
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			6.67		P	50.0
6	☐			21.11		P	39.7
7	☐			35.56		P	51.6
8	☐			7.78		P	99.0

156 Dy [No Gas] No available calibration points

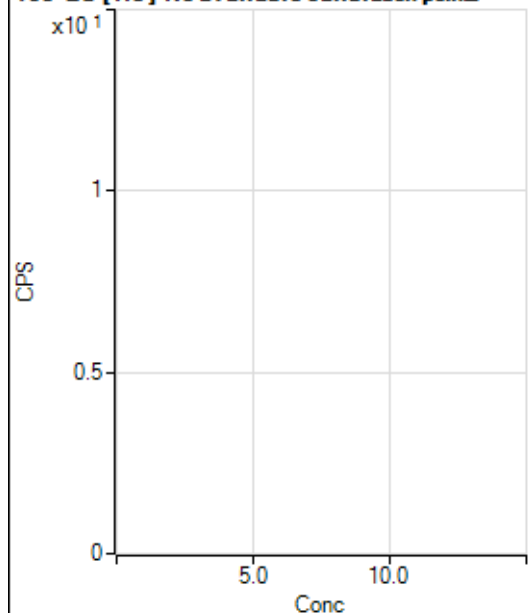
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			13.89		P	124.9
2	☐			2.78		P	173.2
3	☐			11.11		P	43.3
4	☐			44.45		P	57.3
5	☐			88.89		P	30.1
6	☐			125.01		P	41.6
7	☐			188.89		P	29.4
8	☐			600.03		P	10.8

156 Dy [He] No available calibration points

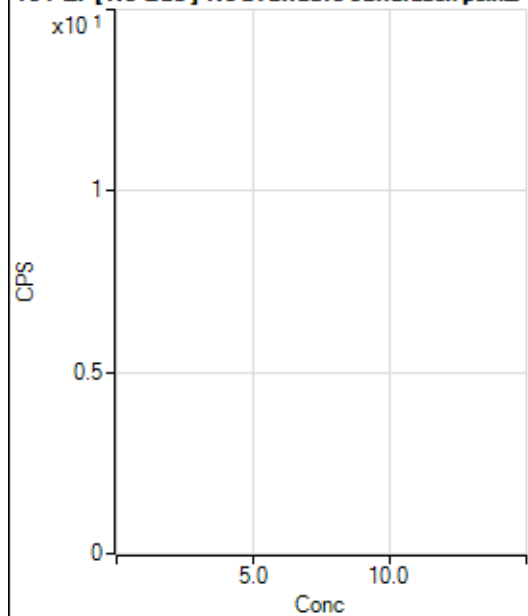
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			8.89		P	21.6
5	☐			14.44		P	13.4
6	☐			51.11		P	41.9
7	☐			98.89		P	11.8
8	☐			264.45		P	2.9

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

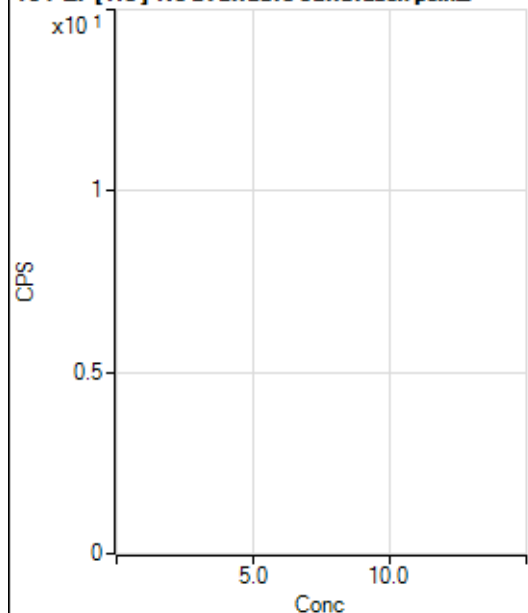
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.56		P	103.3
2	☐			38.89		P	65.5
3	☐			44.45		P	57.3
4	☐			36.11		P	53.3
5	☐			55.55		P	8.7
6	☐			88.89		P	10.8
7	☐			155.56		P	18.8
8	☐			547.25		P	5.8

160 Gd [He] No available calibration points

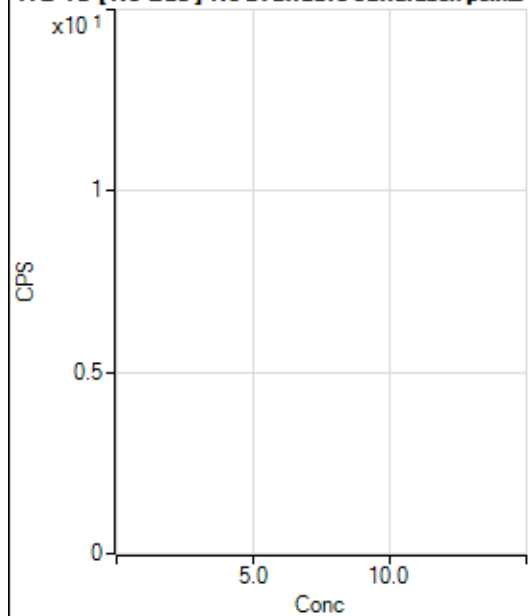
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	45.8
2	☐			44.44		P	42.7
3	☐			28.89		P	17.6
4	☐			35.56		P	48.1
5	☐			58.89		P	33.2
6	☐			74.44		P	15.7
7	☐			124.45		P	12.7
8	☐			312.23		P	8.0

164 Er [No Gas] No available calibration points

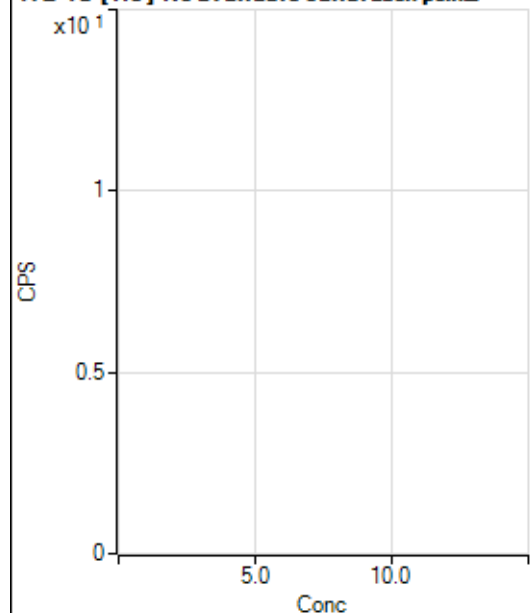
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐			41.67		P	80.0
3	☐			25.00		P	66.7
4	☐			33.34		P	66.1
5	☐			77.78		P	27.0
6	☐			55.56		P	48.2
7	☐			113.89		P	4.2
8	☐			108.34		P	35.2

164 Er [He] No available calibration points

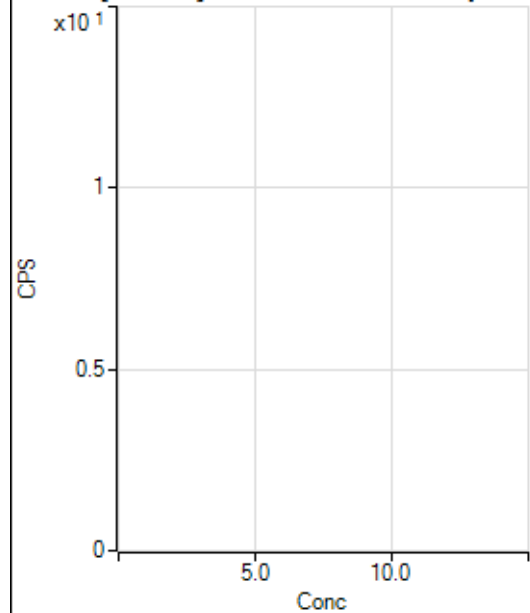
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			10.00		P	66.7
2	☐			6.67		P	50.0
3	☐			17.78		P	47.2
4	☐			20.00		P	28.9
5	☐			16.67		P	34.6
6	☐			27.78		P	42.1
7	☐			56.67		P	5.9
8	☐			43.33		P	46.8

172 Yb [No Gas] No available calibration points

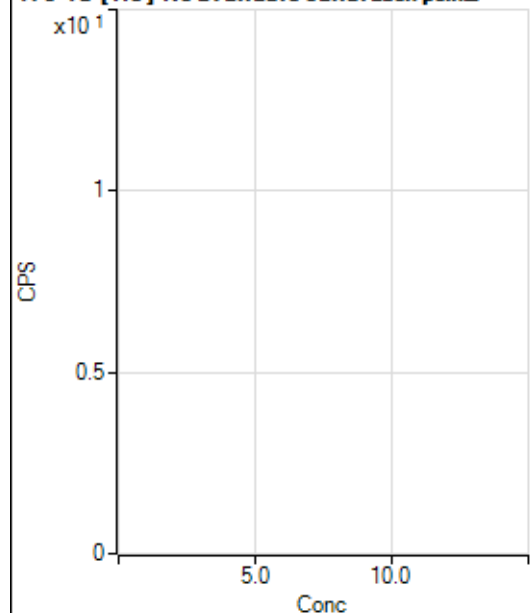
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.66		P	86.6
2	☐			16.67		P	132.3
3	☐			38.89		P	61.9
4	☐			16.67		P	50.0
5	☐			25.00		P	88.2
6	☐			52.78		P	59.8
7	☐			91.67		P	18.2
8	☐			36.11		P	48.0

172 Yb [He] No available calibration points

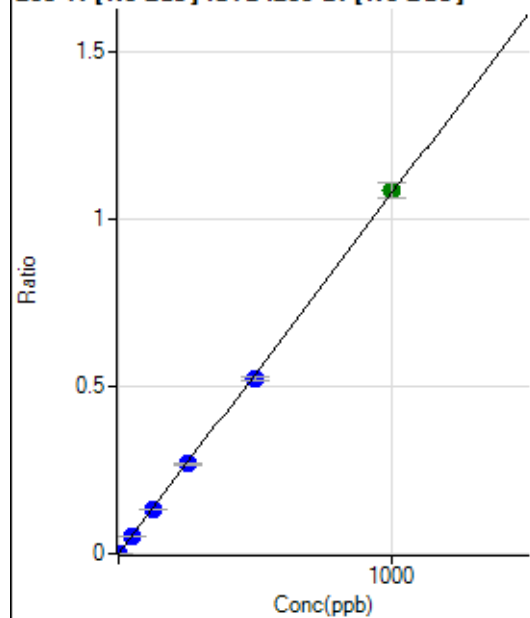
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.71		P	86.6
2	☐			11.11		P	86.6
3	☐			7.41		P	86.6
4	☐			16.67		P	57.7
5	☐			9.26		P	34.6
6	☐			18.52		P	124.9
7	☐			37.04		P	43.3
8	☐			24.07		P	35.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			513.91		P	4.7
2	☐			497.25		P	8.6
3	☐			1261.21		P	10.7
4	☐			1955.76		P	8.7
5	☐			3419.99		P	6.3
6	☐			6557.38		P	5.2
7	☐			12342.22		P	4.3
8	☐			594.47		P	6.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3033.74		P	1.4
2	☐			2907.79		P	5.3
3	☐			3226.38		P	6.2
4	☐			3689.47		P	5.4
5	☐			4576.82		P	1.3
6	☐			6179.33		P	3.0
7	☐			9116.26		P	1.6
8	☐			2967.06		P	3.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	236.12	0.0001	P	16.6
2	☐	1.000	0.907	2564.22	0.0011	P	5.1
3	☐	50.000	48.675	127949.47	0.0524	P	1.9
4	☐	125.000	121.219	322358.05	0.1303	P	1.2
5	☐	250.000	249.422	663314.76	0.2680	P	2.8
6	☐	500.000	484.673	1334677.71	0.5207	P	2.1
7	☐	1000.000	1008.347	2833310.98	1.0833	A	4.3
8	☐			1645.39	0.0007	P	51.4

$$y = 0.0011 * x + 9.8879E-005$$

$$R = 0.9998$$

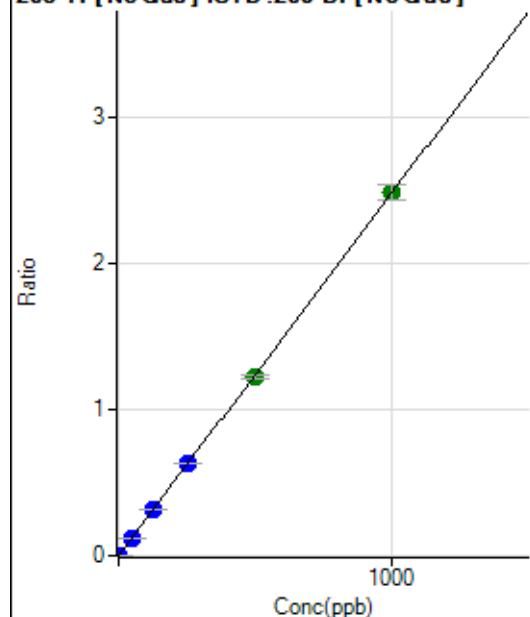
$$DL = 0.04583$$

$$BEC = 0.09205$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	466.69	0.0002	P	7.3
2	☐	1.000	0.946	6082.15	0.0025	P	2.5
3	☐	50.000	49.615	301326.86	0.1234	P	1.8
4	☐	125.000	126.956	779987.16	0.3154	P	3.3
5	☐	250.000	254.232	1562969.13	0.6314	P	1.3
6	☐	500.000	494.698	3148751.35	1.2284	A	1.6
7	☐	1000.000	1001.368	6502901.36	2.4863	A	4.3
8	☐			3745.89	0.0016	P	47.2

$$y = 0.0025 * x + 1.9564E-004$$

$$R = 1.0000$$

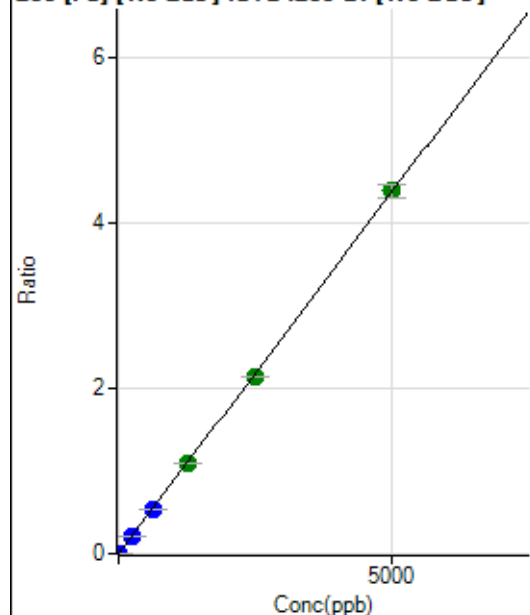
$$DL = 0.01735$$

$$BEC = 0.0788$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	366.68	0.0002	P	14.6
2	☐	1.000	0.881	2207.63	0.0009	P	9.0
3	☐	250.000	241.451	516203.42	0.2114	P	2.9
4	☐	625.000	610.956	1322412.70	0.5346	P	2.1
5	☐	1250.000	1251.858	2711793.44	1.0953	A	0.7
6	☐	2500.000	2454.821	5506250.24	2.1478	A	0.3
7	☐	5000.000	5024.308	11497980.24	4.3957	A	3.7
8	☐			8602.58	0.0037	P	29.1

$$y = 8.7485E-004 * x + 1.5355E-004$$

$$R = 0.9999$$

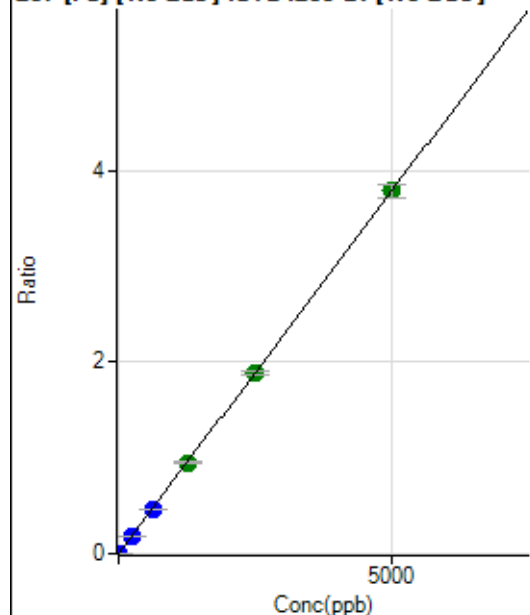
$$DL = 0.07675$$

$$BEC = 0.1755$$

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	311.12	0.0001	P	19.9
2	☐	1.000	0.948	2024.26	0.0008	P	5.6
3	☐	250.000	246.645	456057.91	0.1867	P	2.6
4	☐	625.000	612.761	1147399.48	0.4637	P	0.8
5	☐	1250.000	1258.659	2357596.84	0.9524	A	1.5
6	☐	2500.000	2484.340	4818855.31	1.8798	A	2.0
7	☐	5000.000	5007.363	9910387.49	3.7887	A	3.7
8	☐			7380.55	0.0031	P	30.0

$$y = 7.5660\text{E-}004 * x + 1.3036\text{E-}004$$

$$R = 1.0000$$

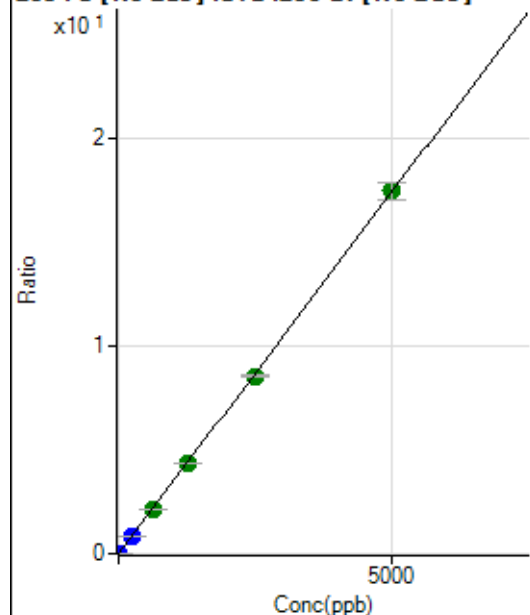
$$DL = 0.1027$$

$$BEC = 0.1723$$

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	1311.16	0.0005	P	9.3
2	☐	1.000	0.938	9105.12	0.0038	P	0.7
3	☐	250.000	241.581	2053098.27	0.8406	P	2.0
4	☐	625.000	615.907	5300422.84	2.1423	A	0.8
5	☐	1250.000	1246.852	10734895.21	4.3363	A	0.9
6	☐	2500.000	2460.130	21933837.41	8.5553	A	1.8
7	☐	5000.000	5022.280	45672324.98	17.4648	A	4.5
8	☐			33729.73	0.0144	P	29.1

$$y = 0.0035 * x + 5.4929\text{E-}004$$

$$R = 1.0000$$

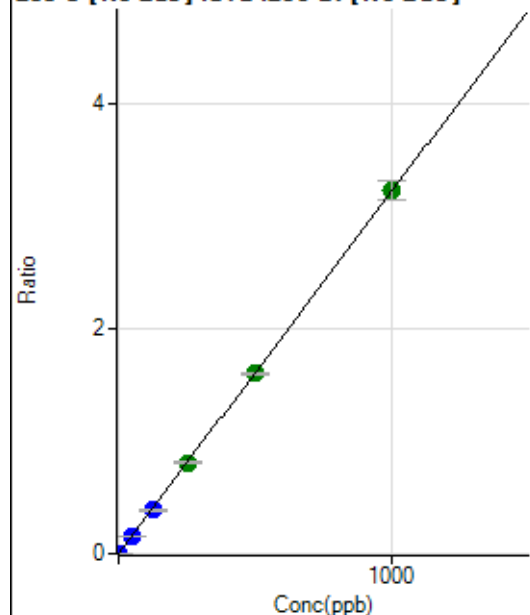
$$DL = 0.04385$$

$$BEC = 0.158$$

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	13.89	0.0000	P	35.7
2	☐	1.000	0.945	7280.07	0.0030	P	3.9
3	☐	50.000	47.868	376373.57	0.1541	P	2.8
4	☐	125.000	121.551	967773.26	0.3914	P	3.5
5	☐	250.000	250.758	1998307.36	0.8073	A	2.8
6	☐	500.000	496.793	4100000.18	1.5995	A	1.8
7	☐	1000.000	1001.952	8434830.23	3.2259	A	5.4
8	☐			3138.52	0.0013	P	48.6

$$y = 0.0032 * x + 5.8450E-006$$

$$R = 1.0000$$

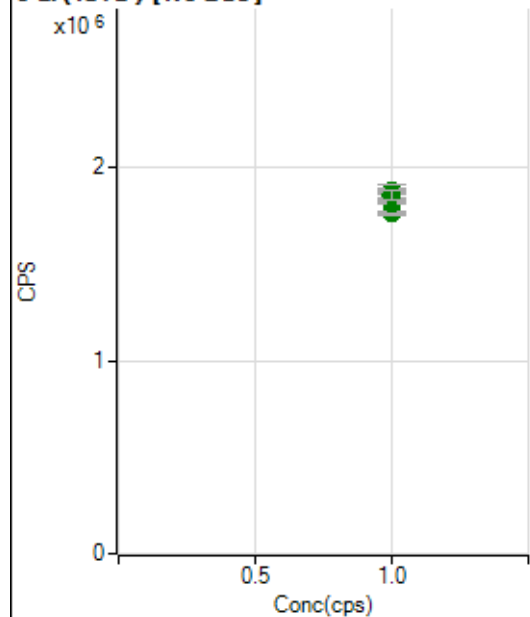
$$DL = 0.001947$$

$$BEC = 0.001815$$

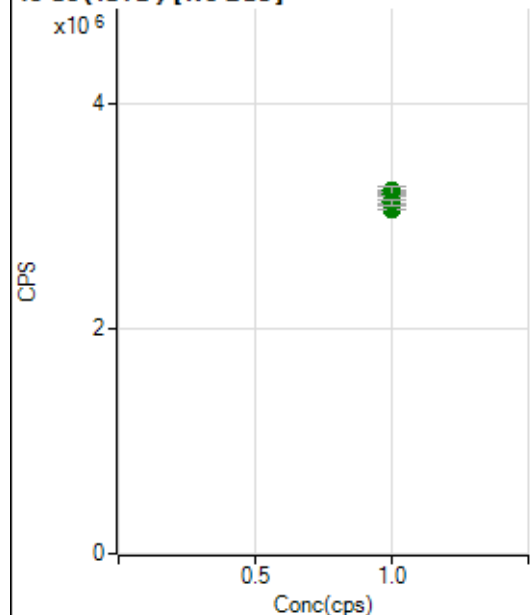
Weight: <None>

Min Conc: 0

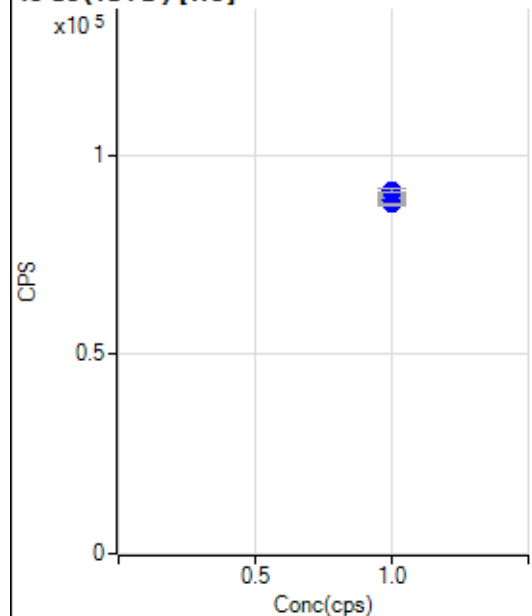
6 Li (ISTD) [No Gas]



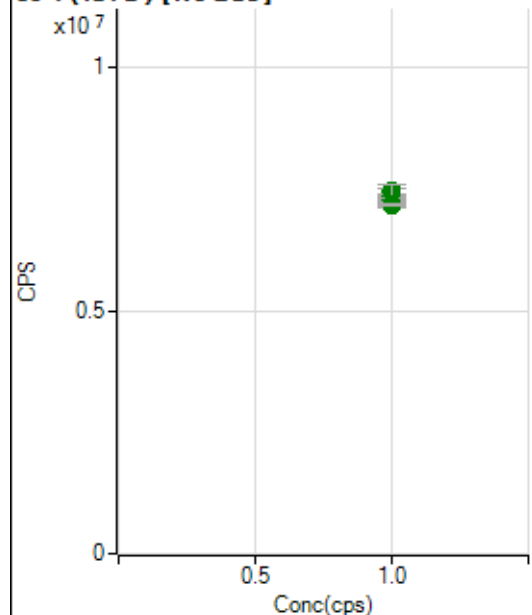
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1763890.30		A	0.3
2	☐	1.000		1810694.77		A	6.5
3	☐	1.000		1815664.58		A	0.7
4	☐	1.000		1877785.38		A	1.2
5	☐	1.000		1849900.21		A	1.3
6	☐	1.000		1857081.92		A	2.0
7	☐	1.000		1864413.18		A	4.5
8	☐	1.000		1856803.71		A	2.3

45 Sc (ISTD) [No Gas]

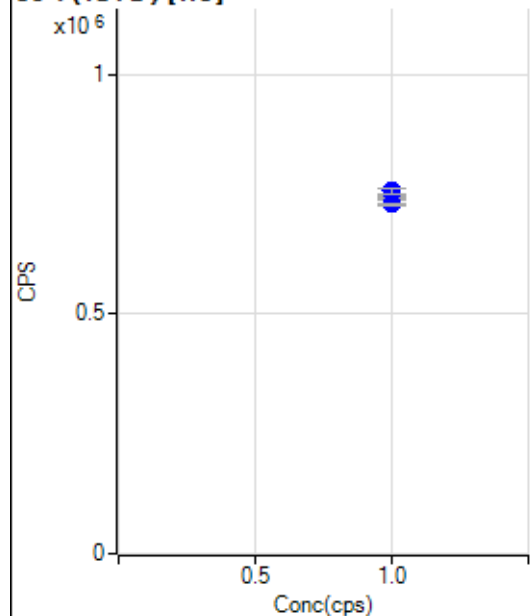
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3066158.57		A	0.3
2	☐	1.000		3157519.92		A	2.9
3	☐	1.000		3204222.73		A	1.2
4	☐	1.000		3187671.13		A	0.3
5	☐	1.000		3195465.06		A	0.1
6	☐	1.000		3208133.74		A	1.6
7	☐	1.000		3231258.25		A	2.9
8	☐	1.000		3126035.41		A	1.5

45 Sc (ISTD) [He]

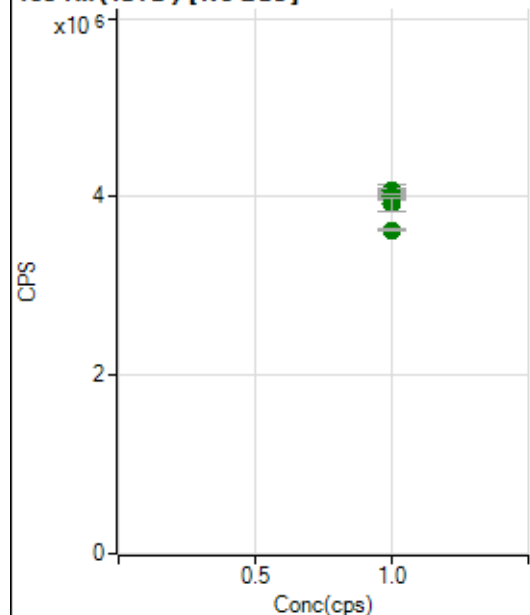
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		89175.58		P	0.7
2	☐	1.000		89597.05		P	0.8
3	☐	1.000		89877.57		P	1.2
4	☐	1.000		89195.53		P	0.0
5	☐	1.000		89307.43		P	0.5
6	☐	1.000		88746.35		P	1.3
7	☐	1.000		90991.53		P	1.0
8	☐	1.000		87573.57		P	0.2

89 Y (ISTD) [No Gas]

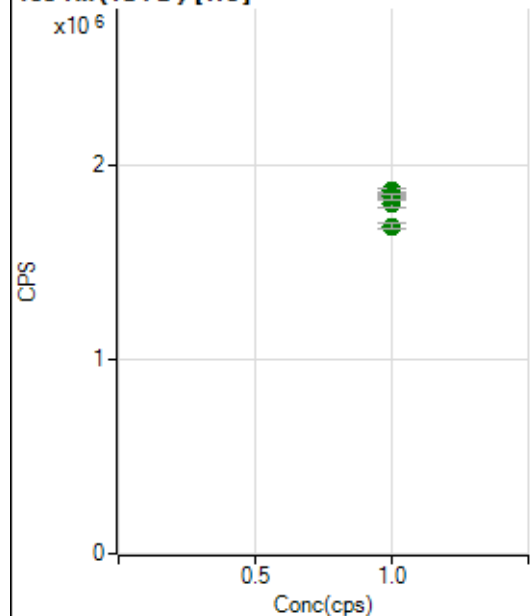
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7172905.52		A	1.8
2	☐	1.000		7442137.74		A	2.0
3	☐	1.000		7206676.77		A	1.5
4	☐	1.000		7291099.27		A	1.7
5	☐	1.000		7228765.10		A	0.7
6	☐	1.000		7359463.85		A	1.1
7	☐	1.000		7459434.47		A	3.8
8	☐	1.000		7185564.27		A	0.8

89 Y (ISTD) [He]

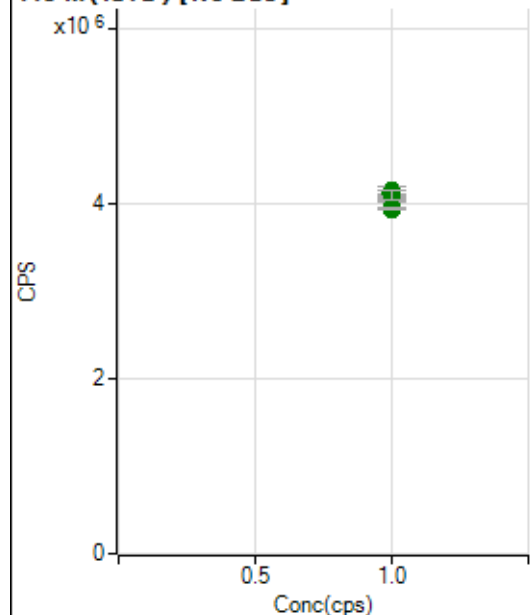
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		744480.07		P	0.7
2	☐	1.000		746497.40		P	0.8
3	☐	1.000		749015.14		P	0.9
4	☐	1.000		743374.29		P	0.8
5	☐	1.000		741409.22		P	0.7
6	☐	1.000		741076.23		P	0.8
7	☐	1.000		757282.81		P	1.4
8	☐	1.000		729803.64		P	0.6

103 Rh (ISTD) [No Gas]

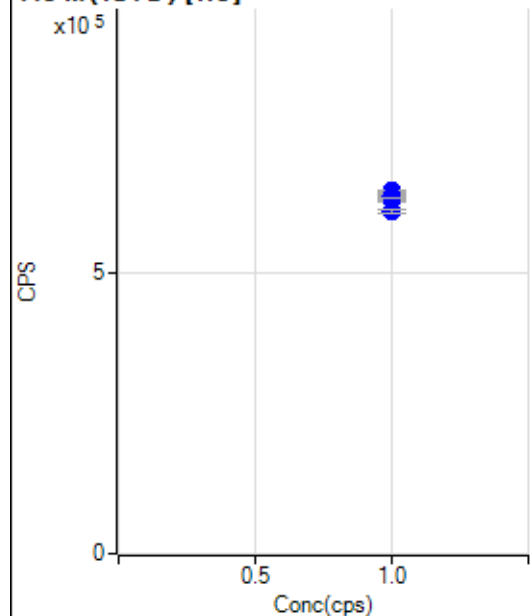
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4015666.19		A	2.4
2	☐	1.000		4062957.03		A	3.2
3	☐	1.000		4060087.33		A	1.1
4	☐	1.000		4065450.22		A	1.2
5	☐	1.000		4004991.71		A	1.1
6	☐	1.000		4004877.61		A	1.0
7	☐	1.000		3912315.71		A	3.8
8	☐	1.000		3630756.03		A	0.4

103 Rh (ISTD) [He]

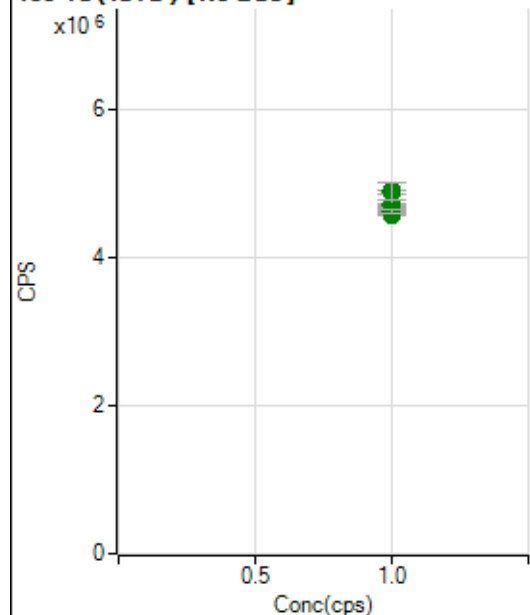
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1865879.99		A	1.0
2	☐	1.000		1821997.07		A	0.8
3	☐	1.000		1844183.77		A	1.0
4	☐	1.000		1833782.84		A	1.1
5	☐	1.000		1828571.78		A	0.6
6	☐	1.000		1799757.58		A	1.9
7	☐	1.000		1835412.91		A	1.8
8	☐	1.000		1684037.86		A	1.6

115 In (ISTD) [No Gas]

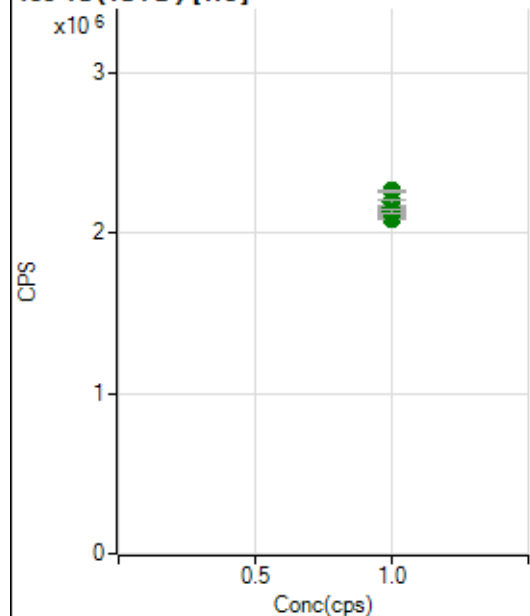
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4045648.92		A	1.1
2	☐	1.000		4150484.86		A	2.9
3	☐	1.000		4130049.13		A	1.8
4	☐	1.000		4106195.14		A	0.9
5	☐	1.000		4082724.66		A	0.7
6	☐	1.000		4123973.17		A	1.9
7	☐	1.000		4109933.38		A	2.7
8	☐	1.000		3945009.45		A	0.8

115 In (ISTD) [He]

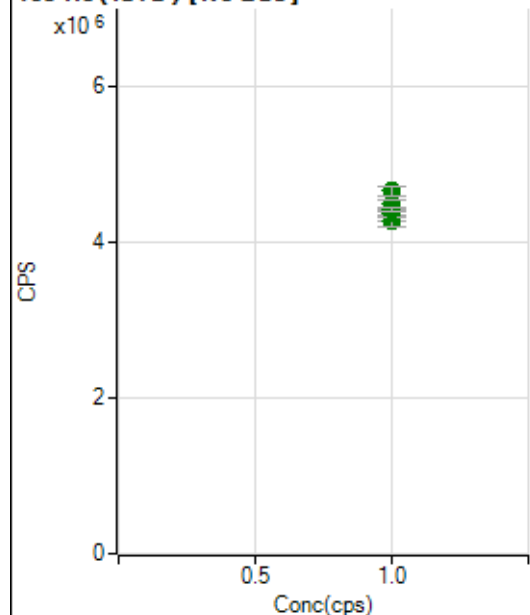
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		641188.50		P	1.1
2	☐	1.000		636042.00		P	0.4
3	☐	1.000		646324.19		P	0.6
4	☐	1.000		636642.17		P	0.8
5	☐	1.000		632259.88		P	0.4
6	☐	1.000		628854.39		P	0.9
7	☐	1.000		633829.10		P	0.5
8	☐	1.000		609342.96		P	1.1

159 Tb (ISTD) [No Gas]

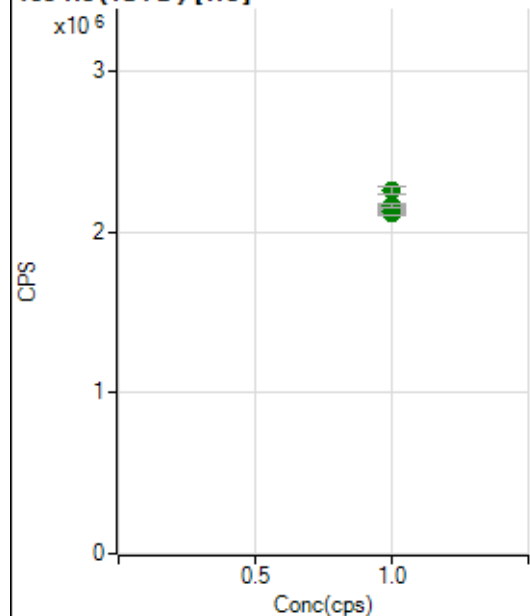
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4592264.72		A	0.5
2	☐	1.000		4670971.77		A	1.5
3	☐	1.000		4681186.39		A	1.5
4	☐	1.000		4698091.91		A	1.1
5	☐	1.000		4733480.41		A	2.3
6	☐	1.000		4892429.65		A	0.9
7	☐	1.000		4908833.47		A	4.8
8	☐	1.000		4642509.83		A	1.2

159 Tb (ISTD) [He]

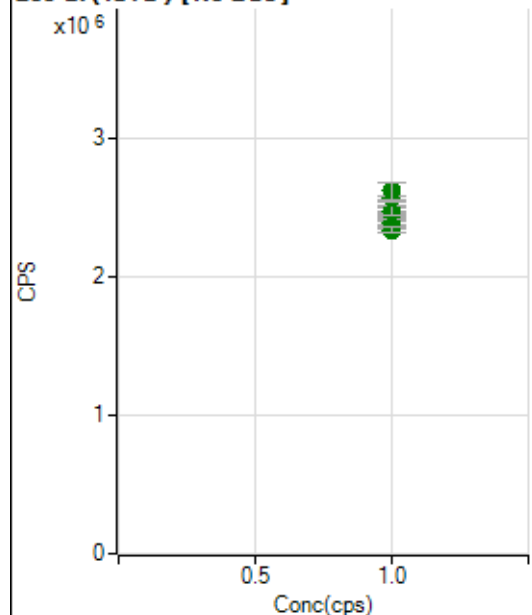
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2125529.00		A	1.5
2	☐	1.000		2085816.65		A	0.6
3	☐	1.000		2141542.94		A	1.0
4	☐	1.000		2153468.51		A	1.4
5	☐	1.000		2124736.03		A	1.4
6	☐	1.000		2187312.95		A	1.7
7	☐	1.000		2259530.96		A	0.6
8	☐	1.000		2129179.48		A	1.2

165 Ho (ISTD) [No Gas]

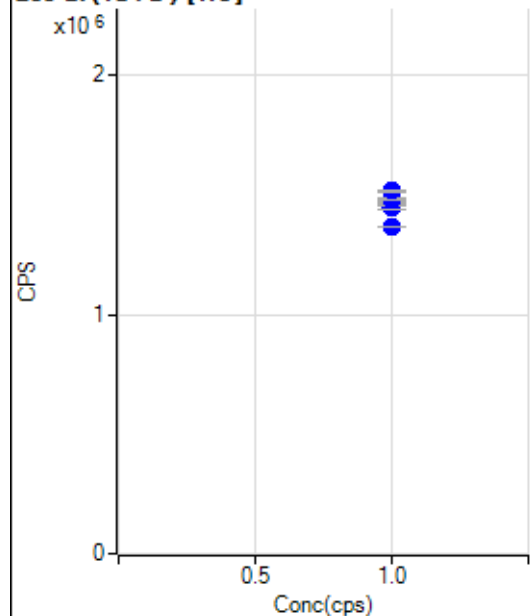
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4274318.76		A	0.2
2	☐	1.000		4285075.01		A	3.5
3	☐	1.000		4385130.74		A	2.0
4	☐	1.000		4426744.76		A	1.2
5	☐	1.000		4372559.69		A	1.9
6	☐	1.000		4506023.67		A	2.1
7	☐	1.000		4667186.00		A	3.0
8	☐	1.000		4421969.63		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2119788.01		A	1.0
2	☐	1.000		2111819.86		A	0.2
3	☐	1.000		2141997.95		A	0.7
4	☐	1.000		2137692.78		A	0.4
5	☐	1.000		2128771.72		A	2.1
6	☐	1.000		2161812.61		A	0.6
7	☐	1.000		2254956.89		A	2.3
8	☐	1.000		2162759.32		A	1.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2384983.20		A	1.5
2	☐	1.000		2390306.63		A	3.4
3	☐	1.000		2442932.01		A	2.0
4	☐	1.000		2473955.78		A	1.9
5	☐	1.000		2475924.06		A	2.5
6	☐	1.000		2563752.04		A	1.9
7	☐	1.000		2618510.97		A	4.5
8	☐	1.000		2335592.19		A	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1468581.96		P	0.6
2	☐	1.000		1445146.19		P	1.0
3	☐	1.000		1474332.57		P	0.4
4	☐	1.000		1478534.14		P	0.4
5	☐	1.000		1475947.89		P	0.8
6	☐	1.000		1481327.91		P	0.9
7	☐	1.000		1515517.76		P	0.7
8	☐	1.000		1365208.80		P	0.5

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8021122MS.b
Acq. Date-Time 2022-02-11 13:43:03
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		4137	41367.00			0.882	5.000
24		39695	396948.93			0.439	5.000
25		5290	52899.94			0.293	5.000
26		6376	63759.83			1.047	5.000
59		10431	104314.62			0.513	5.000
113		4490	44898.06			0.303	5.000
115		15215	152151.45			0.377	5.000
206		5393	53934.33			0.664	5.000
207		4488	44883.94			0.625	5.000
208		10913	109133.45			0.252	5.000
220		1	9.50			30.005	

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

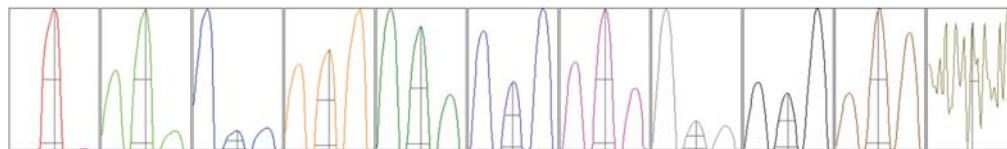
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	4103	4125	4173	4178	4105
24	39574	39724	39909	39796	39471
25	5293	5274	5314	5279	5290
26	6392	6382	6453	6386	6268
59	10490	10418	10485	10376	10388
113	4510	4480	4495	4476	4487
115	15145	15171	15285	15221	15253
206	5440	5363	5412	5353	5398
207	4497	4450	4507	4470	4518
208	10873	10909	10906	10943	10935

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	7501.35	9.05	8.90 - 9.10	
24	72846.46	24.00	23.90 - 24.10	
25	9734.31	25.00	24.90 - 25.10	
26	11365.73	26.00	25.90 - 26.10	
59	19717.67	59.00	58.90 - 59.10	
113	8991.73	113.00	112.90 - 113.10	
115	29947.89	115.05	114.90 - 115.10	
206	10069.68	206.00	205.90 - 206.10	
207	8458.05	207.00	206.90 - 207.10	
208	20824.31	207.95	207.90 - 208.10	
220	1.30	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.735	0.900	
24	0.58	0.738	0.900	
25	0.58	0.738	0.900	
26	0.60	0.739	0.900	
59	0.56	0.768	0.900	
113	0.52	0.686	0.900	
115	0.53	0.732	0.900	
206	0.56	0.783	0.900	
207	0.55	0.774	0.900	
208	0.55	0.805	0.900	
220	0.29			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.73 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 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	8.9 V	Deflect	16.0 V
Extract 2	-145.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-70 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	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2288 V	Pulse HV	1628 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		2231	22310.53			0.329	
89		7823	78227.00			0.655	
205		15855	158545.35			1.302	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2236	2237	2235	2229	2219
89	7877	7830	7831	7837	7738
205	16094	15894	15744	15977	15564

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.75 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.9 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-145.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-70 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	126	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.8 mm	Torch V	-0.7 mm
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EM

Discriminator	4.0 mV	Analog HV	2288 V	Pulse HV	1628 V
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