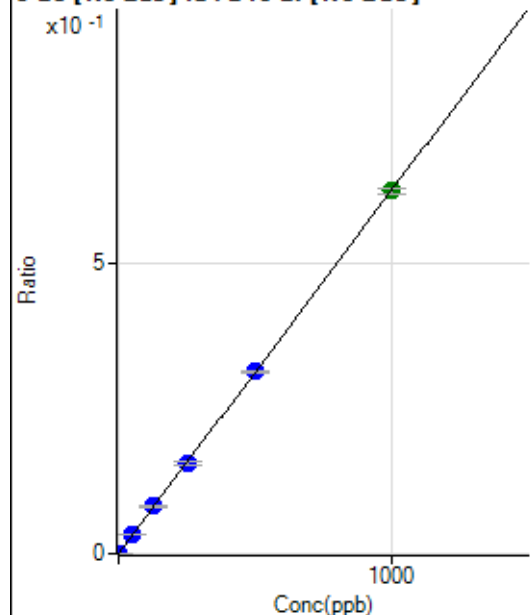


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8062121PMS.b\
 Analysis File: P8062121PMS.batch.bin
 DA Date-Time: 2021-06-22 00:05:00
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALS.d	S00	2021-06-21 12:24:05
2	006CALS.d	S02	2021-06-21 12:30:16
3	007CALS.d	S03	2021-06-21 12:33:21
4	008CALS.d	S04	2021-06-21 12:36:26
5	009CALS.d	S05	2021-06-21 12:39:29
6	010CALS.d	S06	2021-06-21 12:42:35
7	011CALS.d	S07	2021-06-21 12:45:38
8	012CALS.d	S08	2021-06-21 12:48:43

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	14.67	0.0000	P	20.3
2	☐	1.000	1.086	1391.79	0.0007	P	3.6
3	☐	50.000	51.405	65916.42	0.0321	P	0.8
4	☐	125.000	131.660	165160.74	0.0822	P	4.7
5	☐	250.000	248.968	327590.18	0.1555	P	2.3
6	☐	500.000	500.877	649664.31	0.3129	P	1.1
7	☐	1000.000	998.917	1270213.03	0.6240	A	1.4
8	☐			367.93	0.0002	P	6.2

$$y = 6.2466\text{E-}004 * x + 7.1015\text{E-}006$$

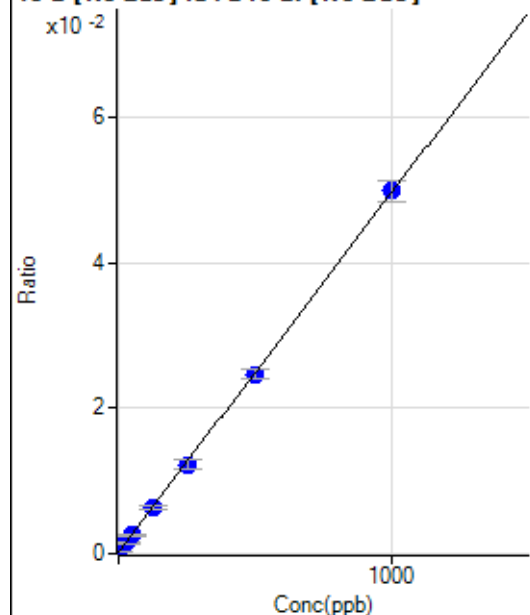
$$R = 1.0000$$

$$DL = 0.00694$$

$$BEC = 0.01137$$

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	453.25	0.0002	P	7.7
2	☐	25.000	25.048	2963.05	0.0015	P	6.5
3	☐	50.000	47.655	5285.93	0.0026	P	9.0
4	☐	125.000	123.773	12712.34	0.0063	P	11.9
5	☐	250.000	243.339	25784.85	0.0123	P	10.1
6	☐	500.000	493.777	51209.94	0.0247	P	5.2
7	☐	1000.000	1005.046	101720.88	0.0499	P	5.7
8	☐			14477.62	0.0072	P	8.3

$$y = 4.9479\text{E-}005 * x + 2.1955\text{E-}004$$

$$R = 0.9999$$

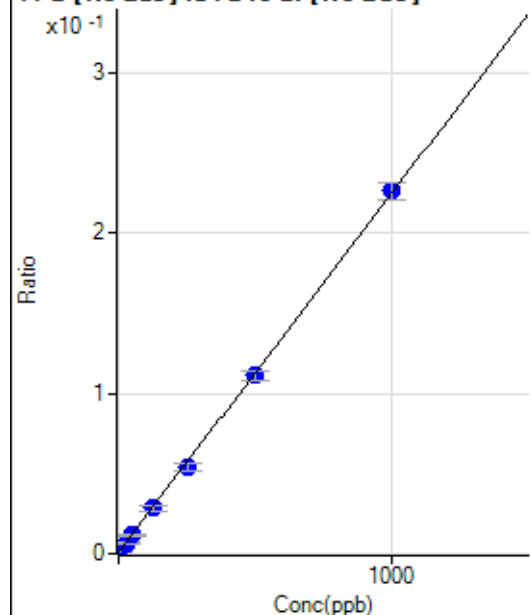
$$DL = 1.027$$

$$BEC = 4.437$$

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	1954.42	0.0009	P	3.8
2	☐	25.000	24.421	13013.86	0.0064	P	6.0
3	☐	50.000	48.889	24358.01	0.0119	P	8.3
4	☐	125.000	123.088	57025.01	0.0285	P	12.6
5	☐	250.000	236.335	113109.27	0.0538	P	9.8
6	☐	500.000	492.414	230626.45	0.1110	P	5.0
7	☐	1000.000	1007.518	460521.22	0.2262	P	4.8
8	☐			64138.65	0.0318	P	9.1

$$y = 2.2354E-004 * x + 9.4730E-004$$

R = 0.9999

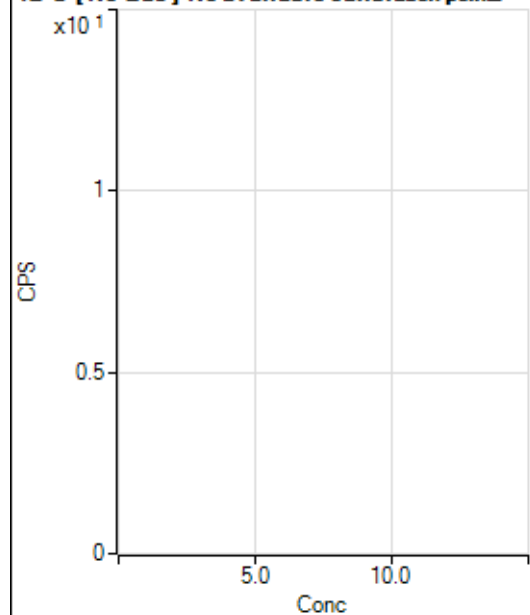
DL = 0.4796

BEC = 4.238

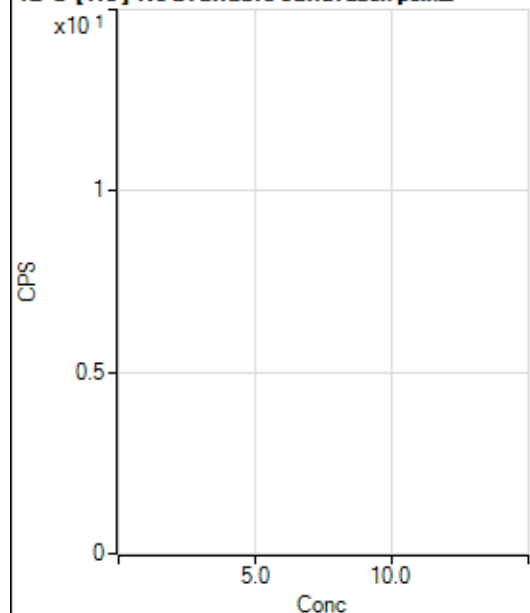
Weight: <None>

Min Conc: 0

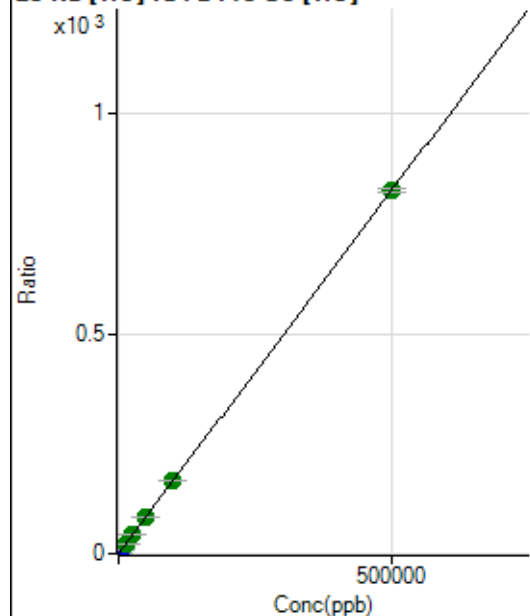
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4268918.24		A	1.4
2	☐			4189183.34		A	0.7
3	☐			4093339.81		A	2.3
4	☐			3829271.31		A	0.4
5	☐			4027869.75		A	0.9
6	☐			4514459.61		A	1.8
7	☐			4804142.95		A	2.6
8	☐			4611734.70		A	3.3

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			43110.84		P	1.9
2	☐			42888.23		P	0.8
3	☐			42609.51		P	2.1
4	☐			39584.53		P	2.1
5	☐			41314.23		P	0.6
6	☐			47321.13		P	1.5
7	☐			52625.27		P	1.3
8	☐			54529.20		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11615.98	0.1218	P	4.4
2	☐	500.000	530.366	97603.34	0.9978	P	2.5
3	☐	5000.000	5243.531	858942.20	8.7822	P	0.3
4	☐	12500.000	12847.629	2084703.45	21.3413	A	0.7
5	☐	25000.000	25562.561	4112153.31	42.3416	A	1.5
6	☐	50000.000	50942.071	7972931.86	84.2591	A	2.2
7	☐	100000.00	100642.29	15789049.31	166.3452	A	0.7
8	☐	500000.00	499738.05	81238669.87	825.5019	A	0.9

$$y = 0.0017 * x + 0.1218$$

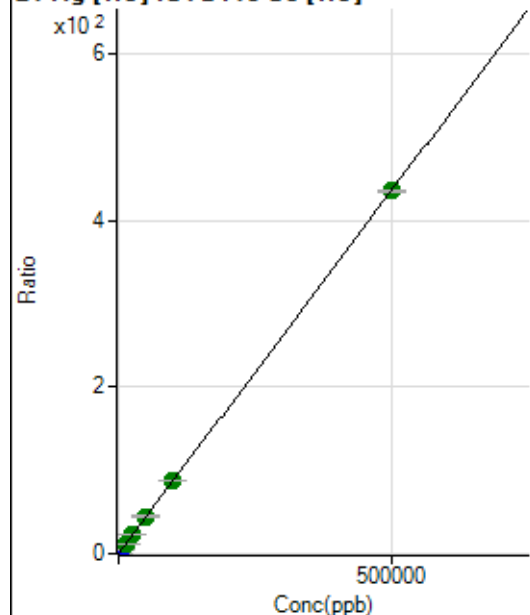
$$R = 1.0000$$

$$DL = 9.641$$

$$BEC = 73.77$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	269.46	0.0028	P	6.6
2	☐	500.000	518.705	44521.24	0.4550	P	0.8
3	☐	5000.000	5301.734	452325.45	4.6249	P	0.9
4	☐	12500.000	13039.448	1110587.53	11.3706	A	1.6
5	☐	25000.000	25569.302	2165150.09	22.2942	A	1.2
6	☐	50000.000	51444.591	4244009.82	44.8523	A	2.5
7	☐	100000.00	100749.42	8336608.69	87.8364	A	0.4
8	☐	500000.00	499660.66	42870466.58	435.6083	A	0.4

$$y = 8.7180\text{E-}004 * x + 0.0028$$

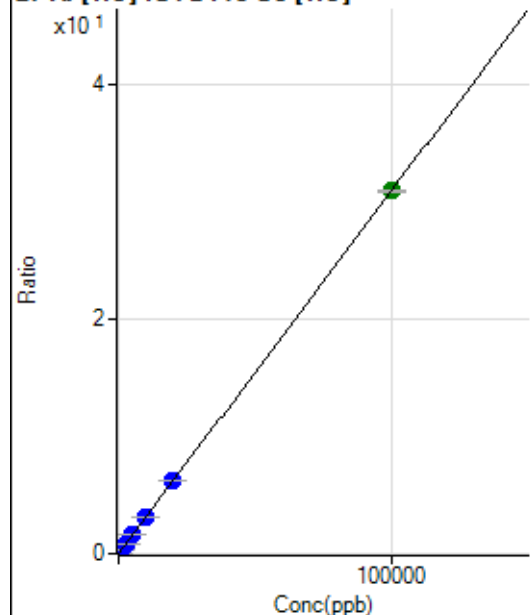
$$R = 1.0000$$

$$DL = 0.6437$$

$$BEC = 3.239$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	179.98	0.0019	P	6.7
2	☐	20.000	20.940	818.67	0.0084	P	1.6
3	☐	1000.000	1048.928	31936.24	0.3265	P	1.4
4	☐	2500.000	2541.163	77007.44	0.7884	P	0.7
5	☐	5000.000	5046.912	151885.68	1.5639	P	0.3
6	☐	10000.000	10110.995	296317.12	3.1313	P	1.4
7	☐	20000.000	19983.751	587190.06	6.1870	P	1.0
8	☐	100000.00	99988.286	3045991.55	30.9490	A	0.9

$$y = 3.0951\text{E-}004 * x + 0.0019$$

$$R = 1.0000$$

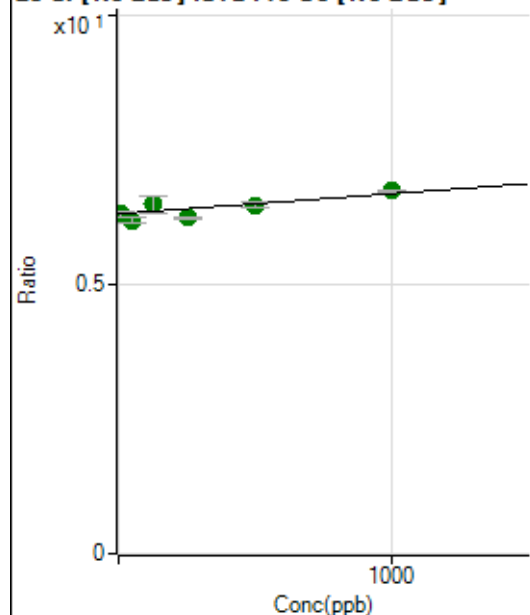
$$DL = 1.225$$

$$BEC = 6.096$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16913329.72	6.3036	A	1.1
2	☐	10.000	-6.772	17003240.48	6.3011	A	1.7
3	☐	50.000	-330.641	16959411.49	6.1800	A	1.6
4	☐	125.000	469.366	17190508.02	6.4791	A	4.9
5	☐	250.000	-201.180	17495024.52	6.2284	A	0.2
6	☐	500.000	409.824	17847084.43	6.4568	A	1.6
7	☐	1000.000	1134.037	18930226.81	6.7276	A	0.5
8	☐			16437689.61	5.8269	A	2.1

$$y = 3.7388\text{E-}004 * x + 6.3036$$

$$R = 0.8411$$

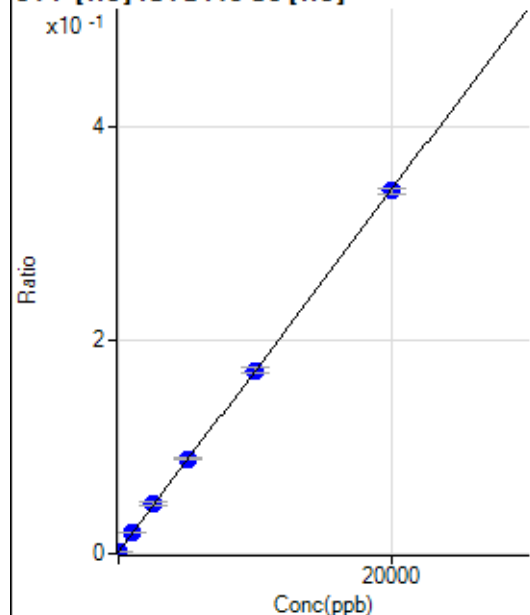
$$DL = 562.6$$

$$BEC = 1.686\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	7.423	191.67	0.0020	P	25.2
2	☐	0.000	-7.423	172.23	0.0018	P	13.2
3	☐	1000.000	1064.033	1950.19	0.0199	P	1.3
4	☐	2500.000	2682.322	4628.62	0.0474	P	6.4
5	☐	5000.000	5124.765	8627.80	0.0888	P	3.0
6	☐	10000.000	10027.588	16284.55	0.1720	P	3.3
7	☐	20000.000	19929.023	32269.76	0.3400	P	1.8
8	☐			222.23	0.0023	P	19.1

$$y = 1.6966\text{E-}005 * x + 0.0019$$

$$R = 0.9999$$

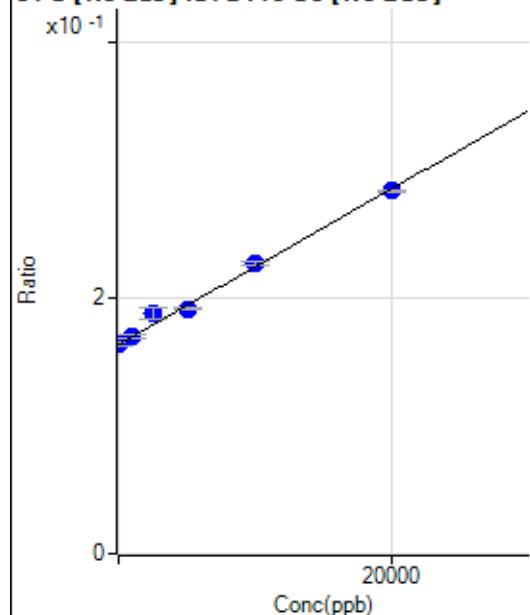
$$DL = 65.38$$

$$BEC = 111.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-58.144	437175.47	0.1629	P	0.4
2	☐	0.000	58.144	441554.17	0.1636	P	2.0
3	☐	1000.000	1021.845	465144.39	0.1695	P	1.6
4	☐	2500.000	4044.841	498599.73	0.1879	P	4.4
5	☐	5000.000	4594.467	537154.82	0.1912	P	1.0
6	☐	10000.000	10395.090	626132.08	0.2265	P	1.8
7	☐	20000.000	19709.641	796910.77	0.2832	P	0.4
8	☐			396619.73	0.1406	P	2.4

$$y = 6.0846E-006 * x + 0.1633$$

$$R = 0.9961$$

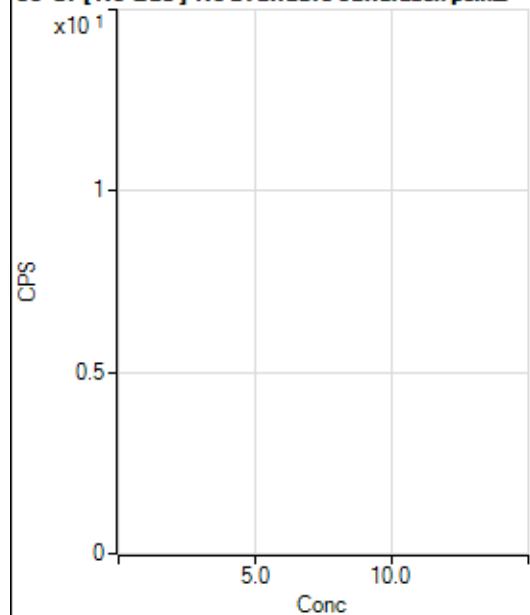
$$DL = 954.3$$

$$BEC = 2.684E+04$$

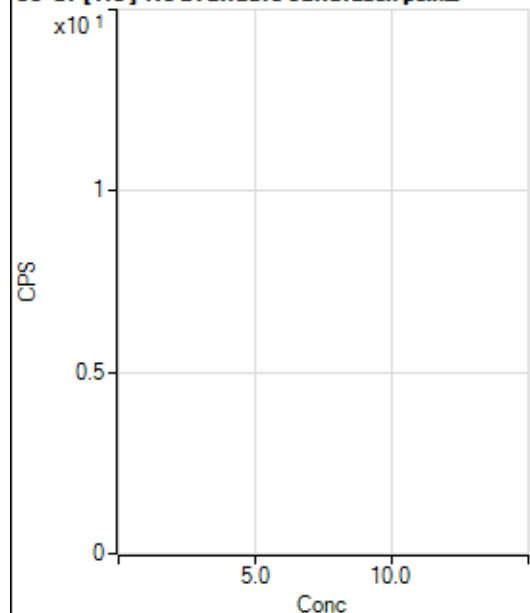
Weight: <None>

Min Conc: 0

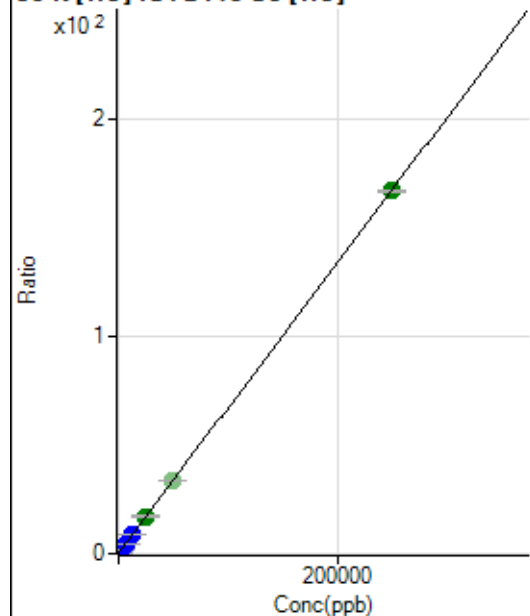
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			179831.60		P	1.0
2	☐			177056.15		P	0.3
3	☐			189995.84		P	0.8
4	☐			177865.70		P	0.6
5	☐			181064.14		P	1.0
6	☐			197525.70		P	0.5
7	☐			194722.79		P	0.4
8	☐			195476.37		P	0.9

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1539.01		P	8.4
2	☐			1455.67		P	3.3
3	☐			1469.56		P	7.7
4	☐			1358.43		P	5.6
5	☐			1394.55		P	12.4
6	☐			1486.23		P	6.8
7	☐			1539.01		P	3.6
8	☐			1555.69		P	14.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24134.67	0.2531	P	4.8
2	☐	500.000	512.014	58123.02	0.5942	P	2.0
3	☐	2500.000	2639.464	196739.49	2.0116	P	0.7
4	☐	6250.000	6444.866	444120.36	4.5469	P	0.7
5	☐	12500.000	12724.859	847899.55	8.7308	P	0.2
6	☐	25000.000	25436.784	1627531.91	17.1999	A	2.1
7	☒	50000.000		3189741.50	33.6099	A	1.3
8	☐	250000.00	249938.78	16411792.56	166.7703	A	0.7

$$y = 6.6623E-004 * x + 0.2531$$

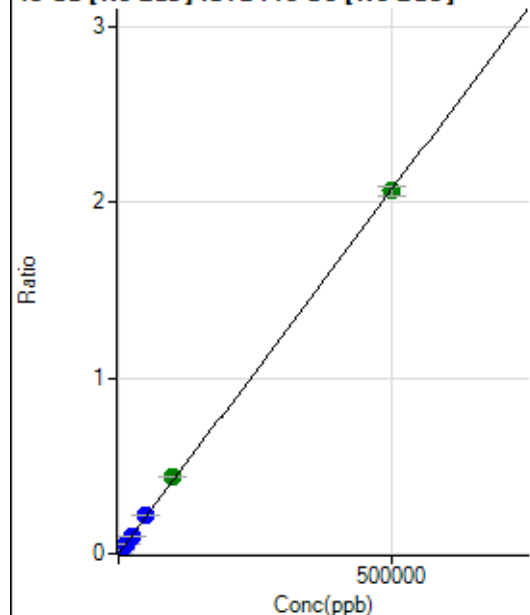
$$R = 1.0000$$

$$DL = 55.26$$

$$BEC = 379.9$$

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	162.16	0.0001	P	20.0
2	☐	500.000	457.129	5273.61	0.0020	P	1.6
3	☐	5000.000	5017.419	57208.42	0.0208	P	1.8
4	☐	12500.000	13129.028	144486.36	0.0545	P	4.7
5	☐	25000.000	25027.766	291426.69	0.1037	P	0.6
6	☐	50000.000	51740.533	592708.49	0.2144	P	0.7
7	☐	100000.00	104899.27	1223041.58	0.4347	A	0.6
8	☐	500000.00	498828.84	5830354.97	2.0667	A	2.3

$$y = 4.1430\text{E-}006 * x + 6.0455\text{E-}005$$

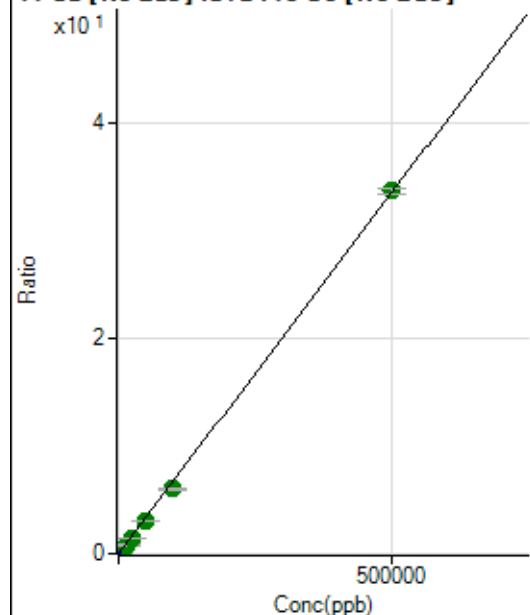
$$R = 0.9999$$

$$DL = 8.736$$

$$BEC = 14.59$$

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	30188.20	0.0113	P	0.9
2	☐	500.000	498.694	120397.37	0.0446	P	0.7
3	☐	5000.000	4419.055	842198.56	0.3069	P	0.7
4	☐	12500.000	11686.295	2104162.13	0.7930	A	4.9
5	☐	25000.000	22284.745	4219004.74	1.5021	A	0.9
6	☐	50000.000	44566.955	8272339.61	2.9927	A	1.4
7	☐	100000.00	89462.189	16871709.54	5.9961	A	1.0
8	☐	500000.00	502812.78	94938510.21	33.6485	A	1.9

$$y = 6.6898\text{E-}005 * x + 0.0113$$

$$R = 0.9997$$

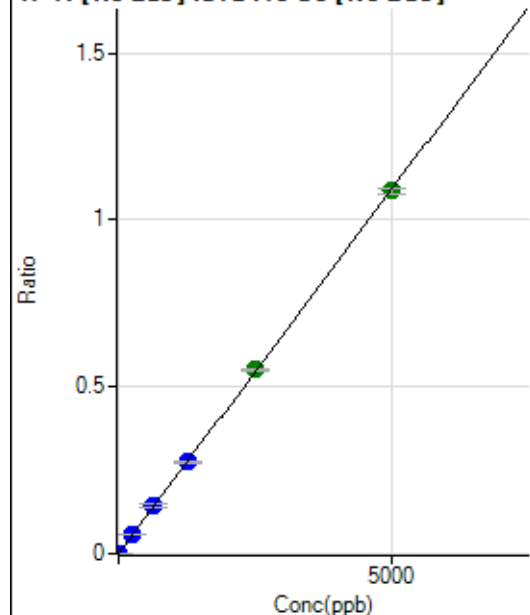
$$DL = 4.627$$

$$BEC = 168.2$$

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	247.23	0.0001	P	8.4
2	☐	5.000	5.205	3311.59	0.0012	P	5.8
3	☐	250.000	257.299	154277.65	0.0562	P	1.1
4	☐	625.000	660.971	382687.15	0.1443	P	5.8
5	☐	1250.000	1255.288	769359.68	0.2739	P	1.1
6	☐	2500.000	2522.608	1521379.93	0.5504	A	0.5
7	☐	5000.000	4982.513	3058363.29	1.0869	A	1.5
8	☐			1125.07	0.0004	P	5.9

$$y = 2.1813E-004 * x + 9.2135E-005$$

$$R = 1.0000$$

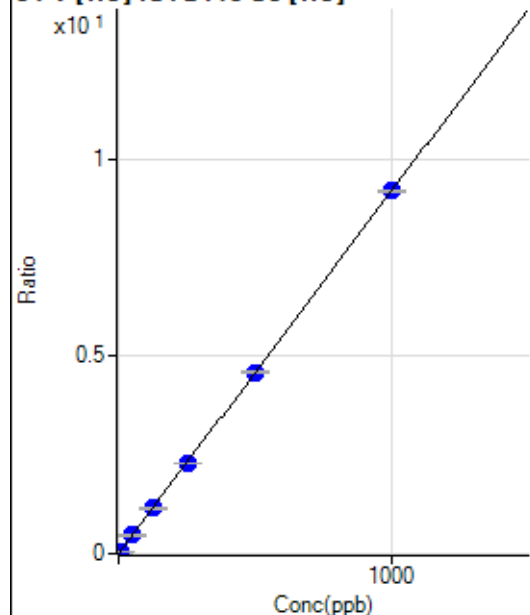
$$DL = 0.1064$$

$$BEC = 0.4224$$

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	4.44	0.0000	P	44.1
2	☐	5.000	5.135	4618.57	0.0472	P	2.2
3	☐	50.000	50.661	45522.11	0.4655	P	1.4
4	☐	125.000	124.881	112065.72	1.1473	P	0.8
5	☐	250.000	249.250	222383.60	2.2898	P	0.8
6	☐	500.000	499.815	434514.22	4.5917	P	1.4
7	☐	1000.000	1000.261	872129.71	9.1892	P	0.8
8	☐			217.78	0.0022	P	11.5

$$y = 0.0092 * x + 4.6684E-005$$

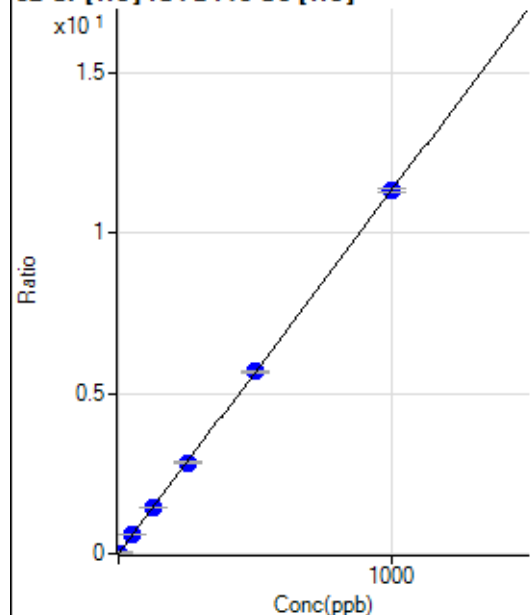
$$R = 1.0000$$

$$DL = 0.006727$$

$$BEC = 0.005082$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	578.90	0.0061	P	2.9
2	☐	2.000	2.108	2924.77	0.0299	P	5.4
3	☐	50.000	50.989	56988.43	0.5827	P	0.5
4	☐	125.000	125.542	139266.33	1.4257	P	0.4
5	☐	250.000	251.128	276389.48	2.8459	P	0.4
6	☐	500.000	500.951	536657.48	5.6710	P	1.7
7	☐	1000.000	999.125	1072879.85	11.3046	P	1.1
8	☐			3077.03	0.0313	P	2.7

$$y = 0.0113 * x + 0.0061$$

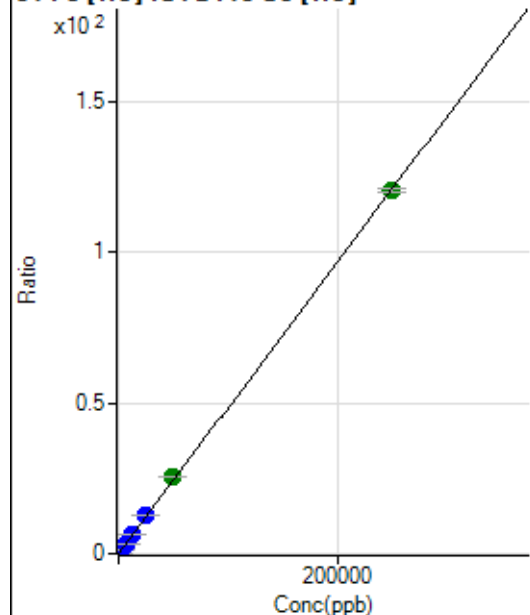
$$R = 1.0000$$

$$DL = 0.04743$$

$$BEC = 0.5367$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	374.09	0.0039	P	2.8
2	☐	50.000	54.870	2978.14	0.0304	P	0.9
3	☐	2500.000	2643.071	125321.71	1.2813	P	0.1
4	☐	6250.000	6520.535	308209.07	3.1554	P	1.5
5	☐	12500.000	12862.323	604111.47	6.2204	P	0.4
6	☐	25000.000	26059.537	1192268.48	12.5988	P	1.0
7	☐	50000.000	52733.707	2419252.60	25.4907	A	0.9
8	☐	250000.00	249320.99	11858448.41	120.5035	A	0.9

$$y = 4.8331E-004 * x + 0.0039$$

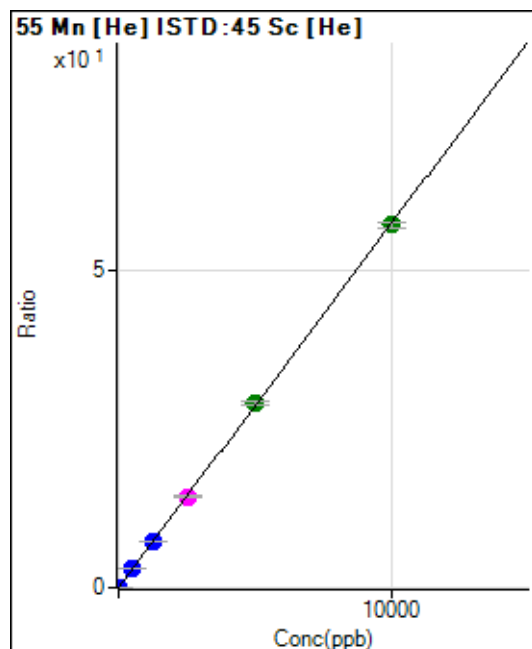
$$R = 0.9999$$

$$DL = 0.6851$$

$$BEC = 8.117$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0003	P	54.8
2	☐	1.000	1.042	613.35	0.0063	P	7.4
3	☐	500.000	508.455	285070.61	2.9147	P	0.3
4	☐	1250.000	1252.699	701388.73	7.1807	P	0.5
5	☐	2500.000	2496.679	1389895.20	14.3111	M	1.3
6	☐	5000.000	5082.601	2756783.40	29.1333	A	1.8
7	☐	10000.000	9958.769	5417726.31	57.0831	A	1.9
8	☐			3248.19	0.0330	P	3.2

$$y = 0.0057 * x + 2.9239E-004$$

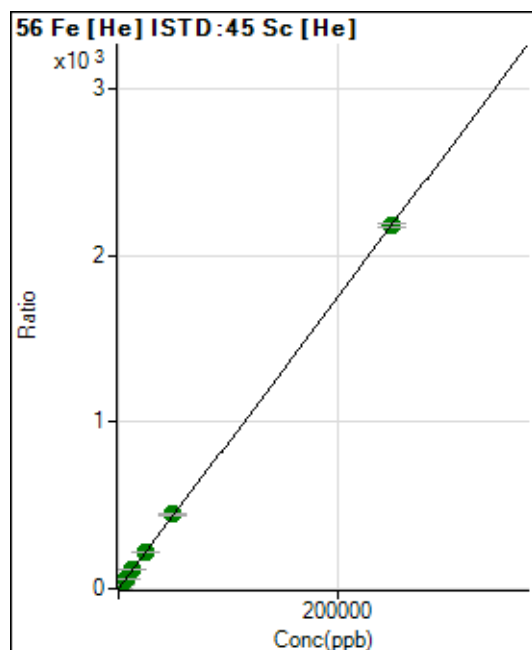
$$R = 0.9999$$

$$DL = 0.08388$$

$$BEC = 0.05101$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2077.96	0.0218	P	7.7
2	☐	50.000	54.065	48242.73	0.4931	P	0.4
3	☐	2500.000	2638.984	2251873.66	23.0251	A	1.4
4	☐	6250.000	6442.149	5487205.85	56.1762	A	0.6
5	☐	12500.000	12723.801	10773370.61	110.9315	A	0.3
6	☐	25000.000	25519.666	21053072.69	222.4694	A	1.2
7	☐	50000.000	51023.941	42213732.89	444.7828	A	0.9
8	☐	250000.00	249725.86	214213551.0	2,176.810	A	1.0

$$y = 0.0087 * x + 0.0218$$

$$R = 1.0000$$

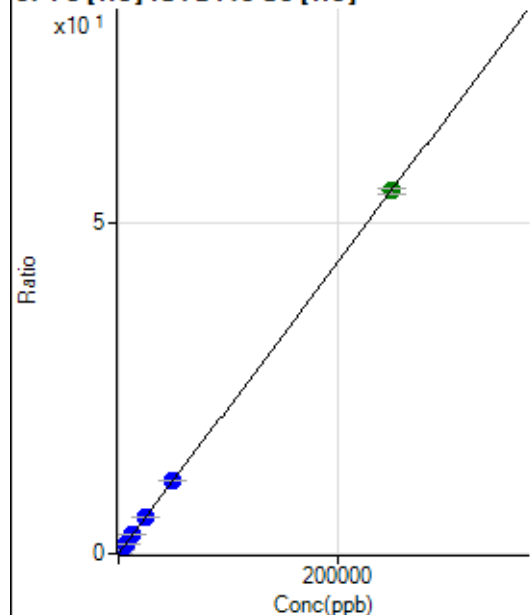
$$DL = 0.5758$$

$$BEC = 2.501$$

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	98.15	0.0010	P	24.6
2	☐	50.000	56.062	1305.64	0.0134	P	10.8
3	☐	2500.000	2588.384	55771.77	0.5702	P	0.7
4	☐	6250.000	6374.427	137034.54	1.4028	P	0.3
5	☐	12500.000	12642.954	270115.03	2.7814	P	0.4
6	☐	25000.000	25338.227	527386.02	5.5732	P	1.6
7	☐	50000.000	50654.422	1057335.91	11.1405	P	0.7
8	☐	250000.00	249824.14	5406600.76	54.9403	A	1.3

$$y = 2.1991\text{E-}004 * x + 0.0010$$

$$R = 1.0000$$

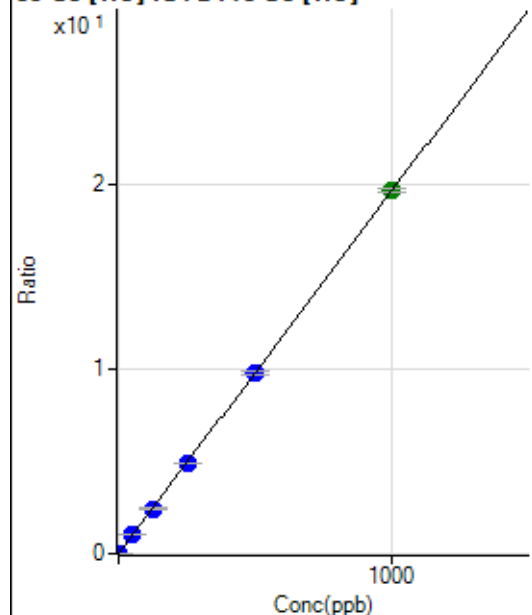
$$DL = 3.458$$

$$BEC = 4.689$$

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	81.11	0.0009	P	1.1
2	☐	1.000	1.032	2067.95	0.0211	P	3.7
3	☐	50.000	50.610	97459.30	0.9965	P	0.5
4	☐	125.000	124.532	239373.40	2.4506	P	0.5
5	☐	250.000	248.346	474551.42	4.8863	P	0.7
6	☐	500.000	498.341	927779.38	9.8042	P	1.4
7	☐	1000.000	1001.271	1869610.11	19.6979	A	1.2
8	☐			2796.97	0.0284	P	0.6

$$y = 0.0197 * x + 8.5044\text{E-}004$$

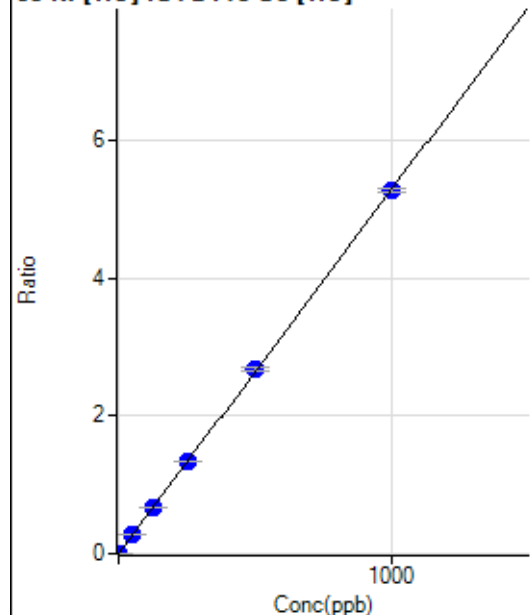
$$R = 1.0000$$

$$DL = 0.001446$$

$$BEC = 0.04323$$

Weight: <None>

Min Conc: 0

60 Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	42.22	0.0004	P	28.5
2	☐	1.000	1.133	630.02	0.0064	P	4.1
3	☐	50.000	51.279	26580.48	0.2718	P	1.7
4	☐	125.000	127.086	65723.05	0.6729	P	0.7
5	☐	250.000	252.371	129727.05	1.3358	P	1.1
6	☐	500.000	505.129	252942.69	2.6731	P	2.0
7	☐	1000.000	996.518	500450.32	5.2731	P	1.0
8	☐			897.82	0.0091	P	3.8

$$y = 0.0053 * x + 4.4172E-004$$

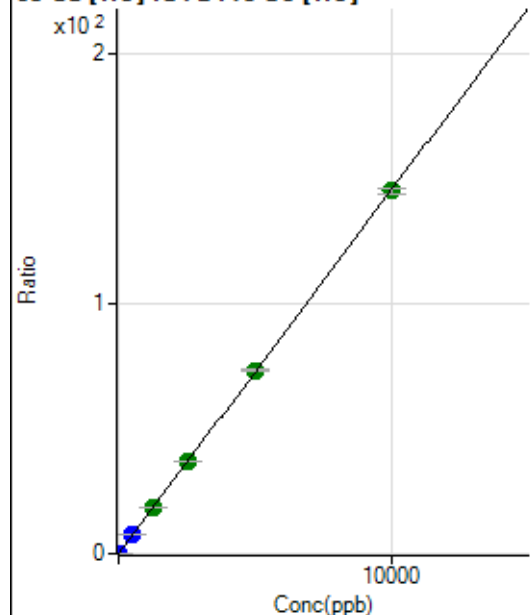
$$R = 1.0000$$

$$DL = 0.07146$$

$$BEC = 0.08348$$

Weight: <None>

Min Conc: 0

63 Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.45	0.0015	P	8.1
2	☐	2.000	2.040	3048.14	0.0312	P	3.9
3	☐	500.000	511.940	727906.77	7.4426	P	0.7
4	☐	1250.000	1285.408	1825075.44	18.6850	A	0.8
5	☐	2500.000	2527.886	3568548.56	36.7445	A	0.6
6	☐	5000.000	5031.446	6920817.67	73.1338	A	1.2
7	☐	10000.000	9972.282	13756112.85	144.9491	A	1.5
8	☐			3999.50	0.0406	P	7.6

$$y = 0.0145 * x + 0.0015$$

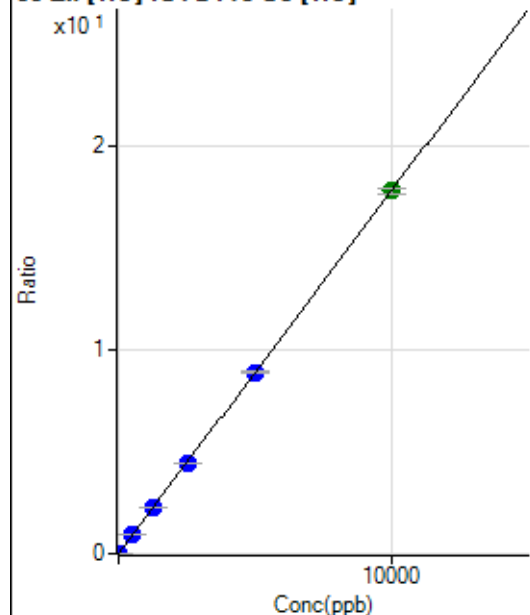
$$R = 1.0000$$

$$DL = 0.02516$$

$$BEC = 0.1042$$

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	121.11	0.0013	P	24.2
2	☐	2.000	2.170	502.24	0.0051	P	8.1
3	☐	500.000	507.506	88592.51	0.9058	P	0.5
4	☐	1250.000	1263.875	220152.43	2.2539	P	0.8
5	☐	2500.000	2504.082	433571.71	4.4644	P	0.4
6	☐	5000.000	4996.722	842890.46	8.9071	P	1.4
7	☐	10000.000	9998.509	1691362.99	17.8220	A	1.5
8	☐			2630.27	0.0267	P	2.5

$$y = 0.0018 * x + 0.0013$$

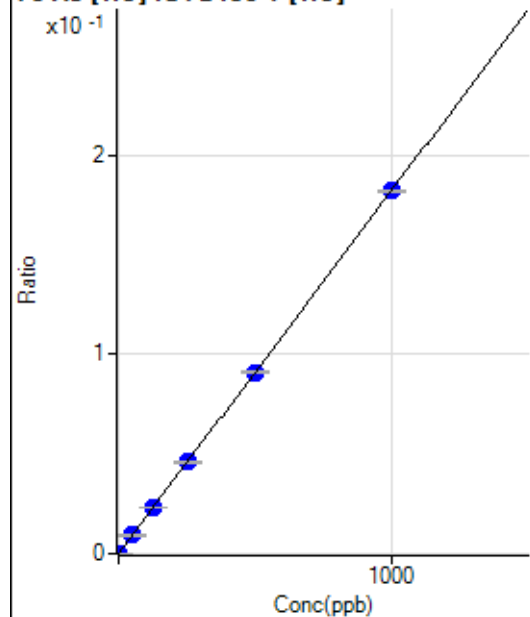
$$R = 1.0000$$

$$DL = 0.5179$$

$$BEC = 0.7119$$

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	5.33	0.0000	P	23.1
2	☐	1.000	1.058	121.34	0.0002	P	8.8
3	☐	50.000	50.466	5586.34	0.0092	P	2.5
4	☐	125.000	126.320	13985.97	0.0230	P	0.3
5	☐	250.000	251.708	27997.74	0.0458	P	1.4
6	☐	500.000	499.948	54753.44	0.0910	P	0.6
7	☐	1000.000	999.411	108966.33	0.1820	P	0.9
8	☐			51.34	0.0001	P	5.0

$$y = 1.8209E-004 * x + 9.0315E-006$$

$$R = 1.0000$$

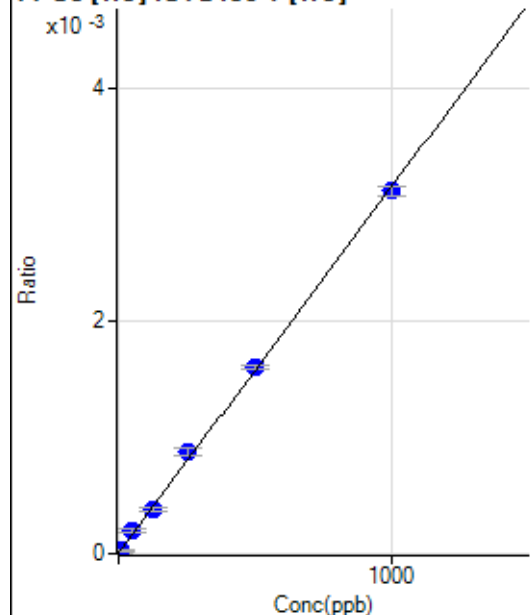
$$DL = 0.03433$$

$$BEC = 0.0496$$

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	2.22	0.0000	P	86.6
2	☐	5.000	7.036	15.55	0.0000	P	26.0
3	☐	50.000	60.996	118.89	0.0002	P	11.3
4	☐	125.000	120.105	232.23	0.0004	P	9.8
5	☐	250.000	276.001	533.35	0.0009	P	6.9
6	☐	500.000	509.211	966.71	0.0016	P	2.5
7	☐	1000.000	988.946	1866.81	0.0031	P	2.6
8	☐			3.33	0.0000	P	100.0

$$y = 3.1491\text{E-}006 * x + 3.7476\text{E-}006$$

$$R = 0.9995$$

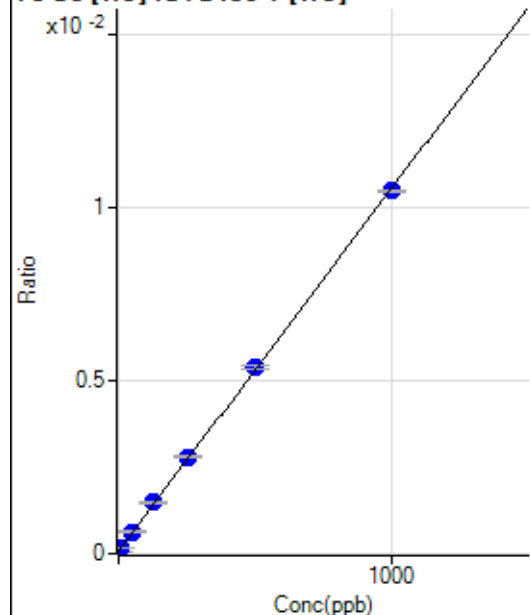
$$DL = 3.093$$

$$BEC = 1.19$$

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	45.67	0.0001	P	14.3
2	☐	5.000	5.998	84.34	0.0001	P	1.4
3	☐	50.000	53.015	384.71	0.0006	P	4.4
4	☐	125.000	134.421	903.79	0.0015	P	2.0
5	☐	250.000	259.254	1707.95	0.0028	P	2.6
6	☐	500.000	505.965	3237.71	0.0054	P	2.0
7	☐	1000.000	993.371	6284.04	0.0105	P	0.9
8	☐			52.34	0.0001	P	18.6

$$y = 1.0488\text{E-}005 * x + 7.7265\text{E-}005$$

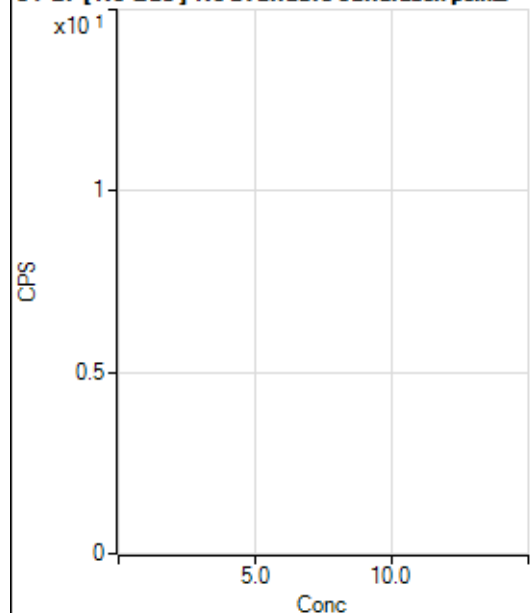
$$R = 0.9999$$

$$DL = 3.153$$

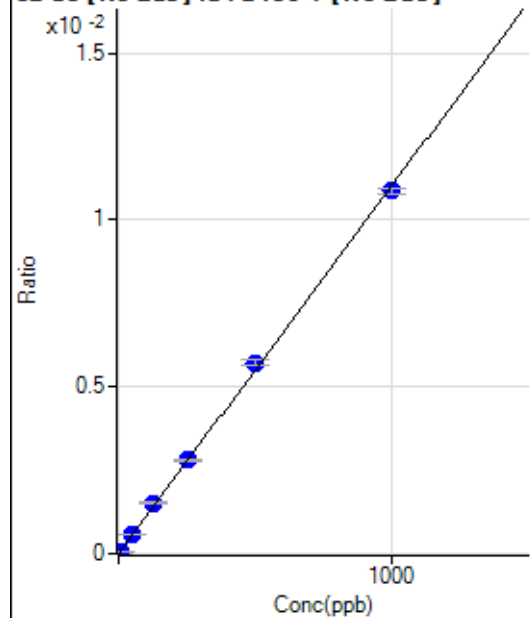
$$BEC = 7.367$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9132.46		P	4.1
2	☐			9239.25		P	3.7
3	☐			8918.76		P	4.3
4	☐			8965.46		P	3.4
5	☐			8708.38		P	4.7
6	☐			8401.18		P	2.1
7	☐			8875.35		P	1.3
8	☐			9079.05		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	2.21	0.0000	P	1180.
2	☐	5.000	5.326	312.90	0.0001	P	40.7
3	☐	50.000	52.684	3143.04	0.0006	P	1.5
4	☐	125.000	136.750	7930.17	0.0015	P	4.0
5	☐	250.000	254.614	15528.87	0.0028	P	1.2
6	☐	500.000	520.181	30824.36	0.0057	P	3.7
7	☐	1000.000	987.151	60428.49	0.0109	P	1.3
8	☐			148.00	0.0000	P	9.9

$$y = 1.1007E-005 * x + 4.2067E-007$$

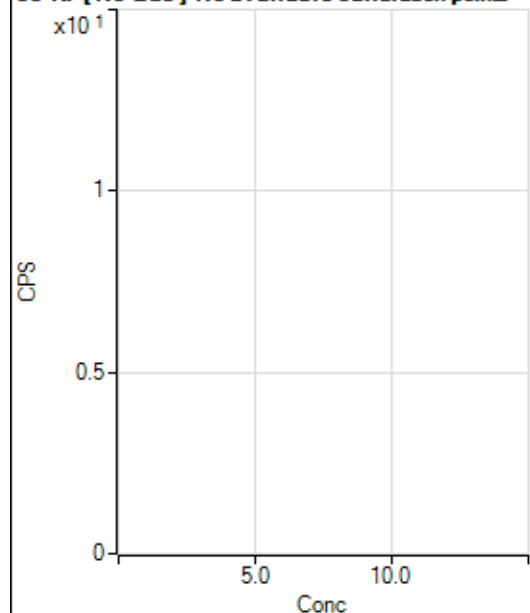
$$R = 0.9996$$

$$DL = 1.353$$

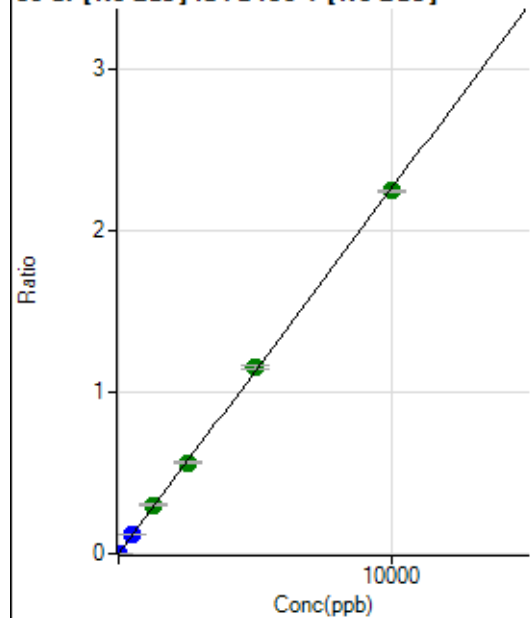
$$BEC = 0.03822$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1088.94		P	4.0
2	☐			1113.39		P	7.4
3	☐			1120.06		P	5.9
4	☐			1087.83		P	6.9
5	☐			1121.17		P	9.8
6	☐			1083.39		P	2.0
7	☐			1084.50		P	2.6
8	☐			1003.38		P	1.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1741.82	0.0003	P	6.7
2	☐	1.000	0.938	2869.81	0.0005	P	4.6
3	☐	500.000	509.328	625767.35	0.1155	P	0.3
4	☐	1250.000	1333.283	1590366.36	0.3019	A	3.7
5	☐	2500.000	2490.829	3123192.91	0.5638	A	2.1
6	☐	5000.000	5113.818	6231092.85	1.1571	A	2.0
7	☐	10000.000	9934.507	12499248.54	2.2476	A	0.2
8	☐			7488.29	0.0013	P	5.7

$$y = 2.2621E-004 * x + 3.2772E-004$$

$$R = 0.9999$$

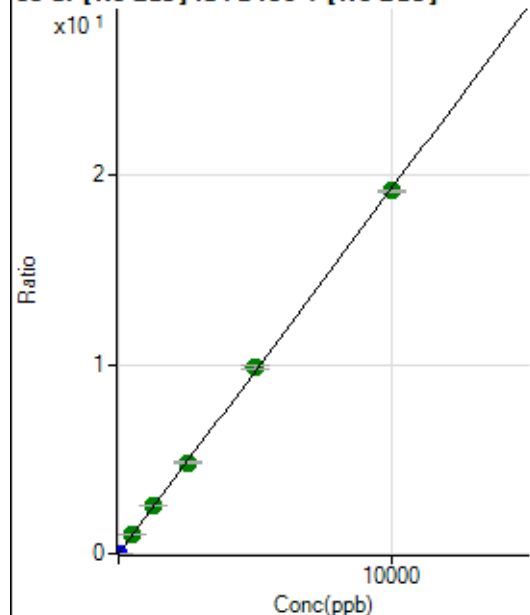
$$DL = 0.2917$$

$$BEC = 1.449$$

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	77.78	0.0000	P	22.2
2	☐	1.000	1.061	10951.82	0.0021	P	5.0
3	☐	500.000	505.372	5280494.17	0.9750	A	0.5
4	☐	1250.000	1311.466	13329221.48	2.5302	A	3.1
5	☐	2500.000	2487.690	26590003.02	4.7995	A	1.5
6	☐	5000.000	5110.355	53091700.84	9.8593	A	2.0
7	☐	10000.000	9939.948	106644106.5	19.1770	A	0.4
8	☐			47888.56	0.0085	P	4.9

$$y = 0.0019 * x + 1.4630E-005$$

R = 0.9999

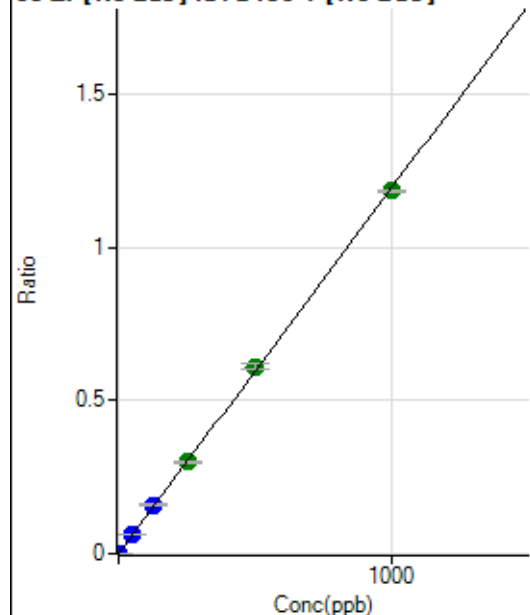
DL = 0.005045

BEC = 0.007583

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	283.34	0.0001	P	5.3
2	☐	1.000	1.083	7152.09	0.0013	P	4.1
3	☐	50.000	50.980	329454.82	0.0608	P	1.0
4	☐	125.000	133.639	839096.60	0.1594	P	5.5
5	☐	250.000	250.382	1654225.07	0.2986	A	1.1
6	☐	500.000	512.351	3289246.19	0.6109	A	2.6
7	☐	1000.000	992.600	6581427.62	1.1835	A	0.7
8	☐			2289.15	0.0004	P	7.3

$$y = 0.0012 * x + 5.3313E-005$$

R = 0.9999

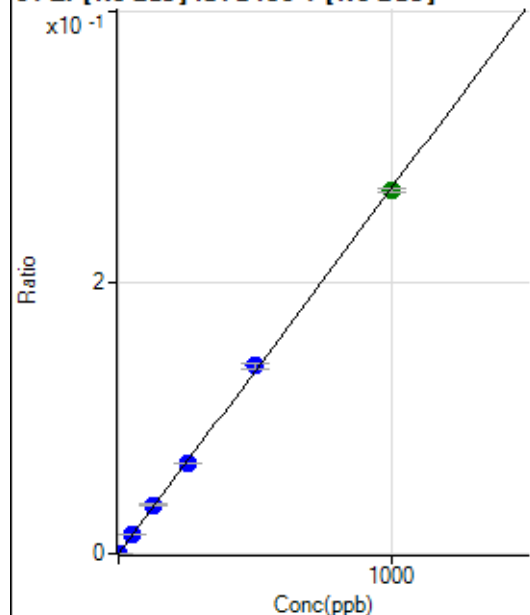
DL = 0.007145

BEC = 0.04472

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	69.45	0.0000	P	36.4
2	☐	1.000	0.986	1480.67	0.0003	P	14.3
3	☐	50.000	50.583	73893.22	0.0136	P	1.3
4	☐	125.000	132.604	188201.11	0.0357	P	5.3
5	☐	250.000	248.393	370914.51	0.0669	P	0.8
6	☐	500.000	513.298	744815.63	0.1383	P	2.7
7	☐	1000.000	992.773	1487846.02	0.2675	A	1.2
8	☐			555.59	0.0001	P	17.9

$$y = 2.6948\text{E-}004 * x + 1.3057\text{E-}005$$

$$R = 0.9998$$

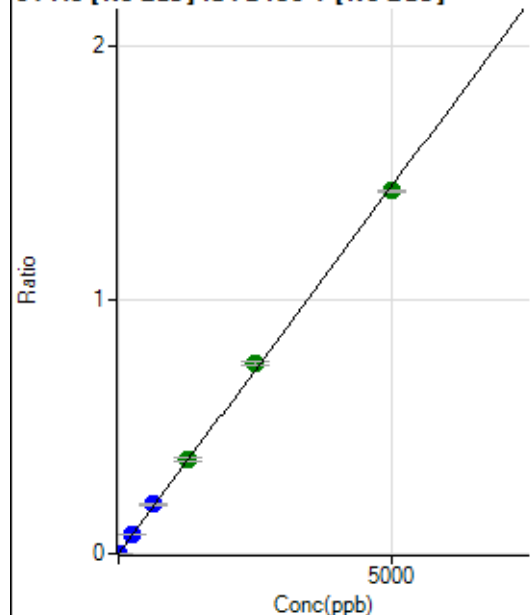
$$DL = 0.05295$$

$$BEC = 0.04845$$

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	108.34	0.0000	P	7.5
2	☐	5.000	5.131	7988.61	0.0015	P	4.5
3	☐	250.000	261.019	408456.19	0.0754	P	0.4
4	☐	625.000	669.760	1018933.12	0.1935	P	4.4
5	☐	1250.000	1283.576	2054111.59	0.3708	A	2.4
6	☐	2500.000	2589.183	4027615.71	0.7479	A	2.0
7	☐	5000.000	4940.868	7937102.52	1.4272	A	0.8
8	☐			3550.54	0.0006	P	11.5

$$y = 2.8886\text{E-}004 * x + 2.0381\text{E-}005$$

$$R = 0.9997$$

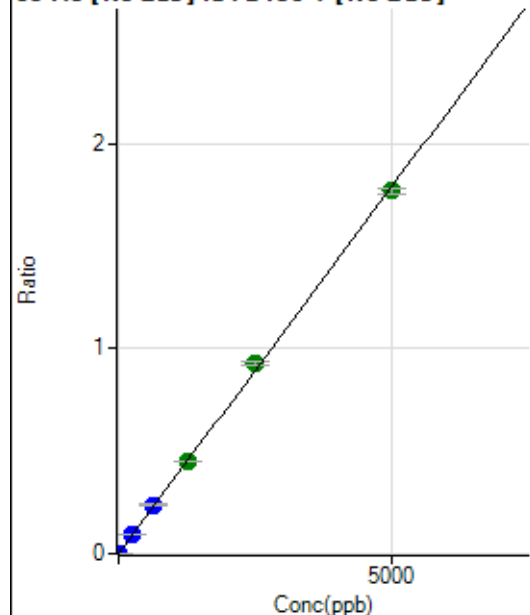
$$DL = 0.01591$$

$$BEC = 0.07056$$

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	19.44	0.0000	P	65.5
2	☐	5.000	5.131	9775.88	0.0018	P	3.5
3	☐	250.000	255.974	495961.77	0.0916	P	0.6
4	☐	625.000	666.752	1256217.36	0.2385	P	4.0
5	☐	1250.000	1258.765	2494635.75	0.4503	A	1.7
6	☐	2500.000	2589.555	4988739.83	0.9264	A	2.0
7	☐	5000.000	4947.514	9842660.90	1.7699	A	1.7
8	☐			4111.83	0.0007	P	11.2

$$y = 3.5773\text{E-}004 * x + 3.6601\text{E-}006$$

$$R = 0.9997$$

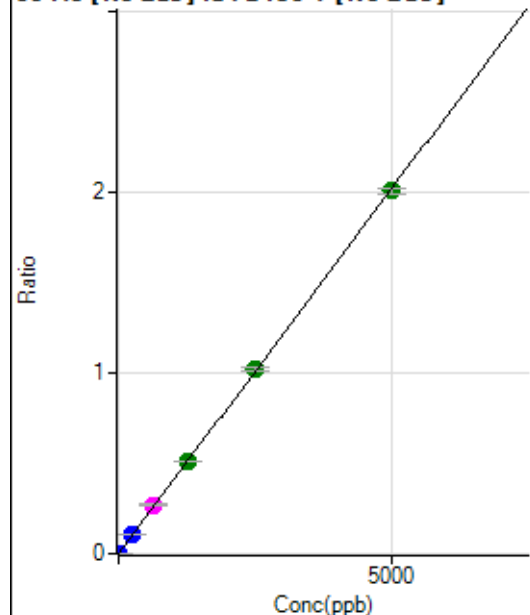
$$DL = 0.02011$$

$$BEC = 0.01023$$

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	69.44	0.0000	P	38.3
2	☐	5.000	5.130	11060.22	0.0021	P	4.8
3	☐	250.000	253.287	552702.08	0.1021	P	1.3
4	☐	625.000	666.645	1414182.11	0.2686	M	4.9
5	☐	1250.000	1264.880	2823147.13	0.5096	A	1.2
6	☐	2500.000	2534.185	5496928.08	1.0210	A	2.8
7	☐	5000.000	4973.817	11143503.11	2.0038	A	1.8
8	☐			6954.70	0.0012	P	5.0

$$y = 4.0287\text{E-}004 * x + 1.3056\text{E-}005$$

$$R = 0.9999$$

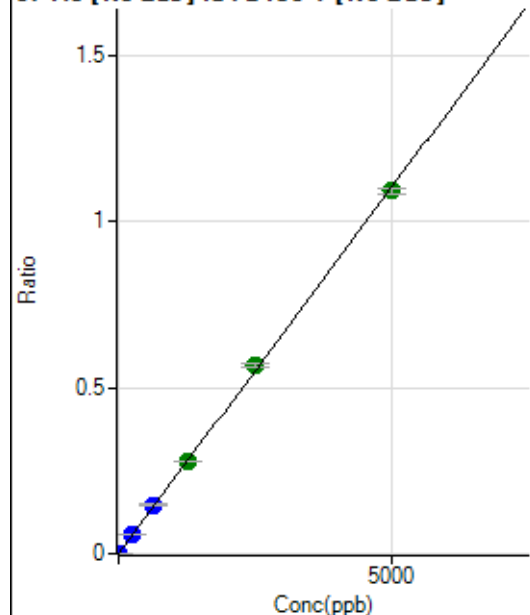
$$DL = 0.03722$$

$$BEC = 0.03241$$

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	5.55	0.0000	P	86.6
2	☐	5.000	5.010	5873.60	0.0011	P	2.4
3	☐	250.000	256.668	306298.36	0.0566	P	0.8
4	☐	625.000	665.737	772522.22	0.1467	P	4.2
5	☐	1250.000	1257.312	1534884.51	0.2770	A	0.8
6	☐	2500.000	2577.430	3057972.42	0.5679	A	2.3
7	☐	5000.000	4954.032	6070408.47	1.0916	A	1.5
8	☐			2719.79	0.0005	P	7.5

$$y = 2.2034\text{E-}004 * x + 1.0464\text{E-}006$$

$$R = 0.9998$$

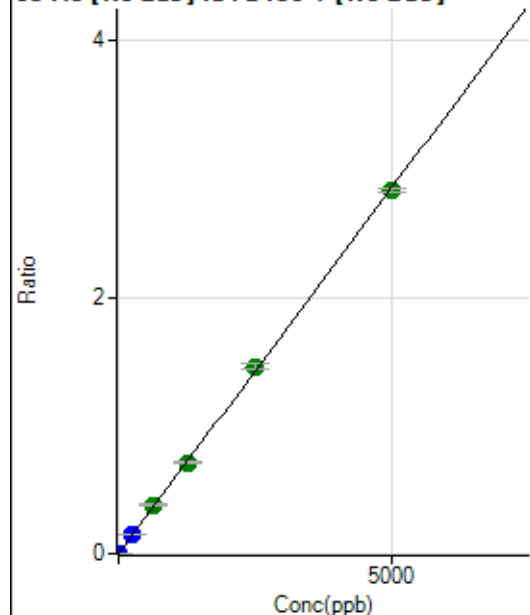
$$DL = 0.01234$$

$$BEC = 0.004749$$

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	25.00	0.0000	P	66.7
2	☐	5.000	5.136	15595.19	0.0029	P	4.2
3	☐	250.000	255.079	788102.52	0.1455	P	1.2
4	☐	625.000	662.494	1990170.92	0.3779	A	4.6
5	☐	1250.000	1249.034	3947229.65	0.7125	A	1.2
6	☐	2500.000	2563.658	7874506.16	1.4624	A	2.2
7	☐	5000.000	4963.472	15745497.92	2.8313	A	1.0
8	☐			6562.87	0.0012	P	8.2

$$y = 5.7043\text{E-}004 * x + 4.7013\text{E-}006$$

$$R = 0.9999$$

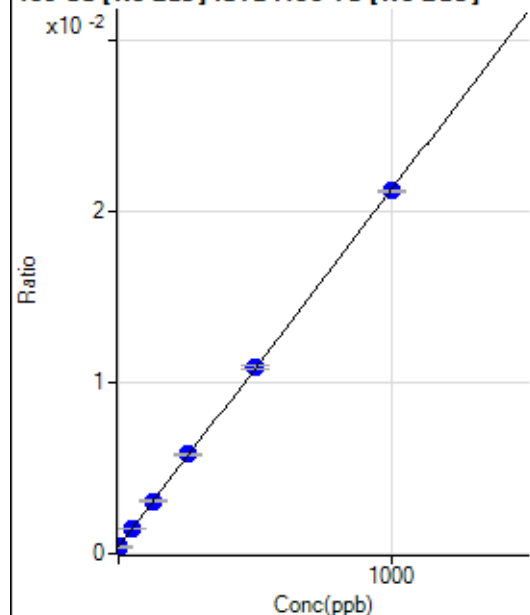
$$DL = 0.01649$$

$$BEC = 0.008242$$

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	1644.59	0.0004	P	10.1
2	☐	1.000	-1.678	1497.35	0.0004	P	11.5
3	☐	50.000	50.412	6101.55	0.0015	P	6.1
4	☐	125.000	126.647	12453.18	0.0030	P	3.3
5	☐	250.000	258.012	24583.67	0.0058	P	3.3
6	☐	500.000	502.203	47078.28	0.0109	P	1.7
7	☐	1000.000	996.672	91713.14	0.0212	P	0.8
8	☐			1675.15	0.0004	P	8.0

$$y = 2.0842\text{E-}005 * x + 4.0661\text{E-}004$$

R = 0.9999

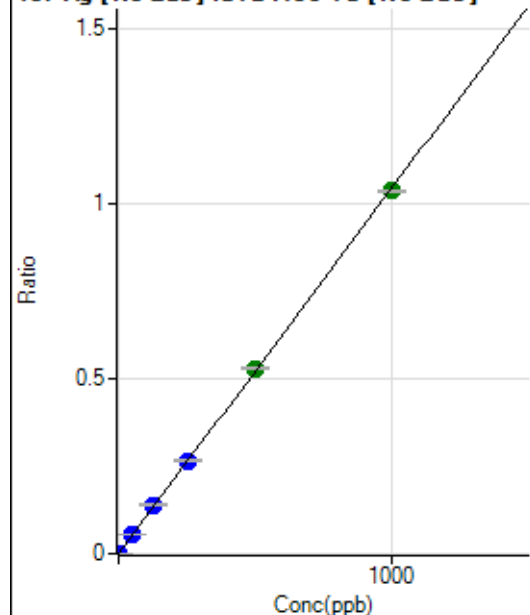
DL = 5.884

BEC = 19.51

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	52.78	0.0000	P	24.5
2	☐	1.000	1.064	4528.66	0.0011	P	2.7
3	☐	50.000	51.513	225207.12	0.0538	P	3.9
4	☐	125.000	133.385	568884.24	0.1392	P	4.1
5	☐	250.000	255.025	1131057.14	0.2661	P	1.4
6	☐	500.000	507.830	2293915.54	0.5299	A	1.3
7	☐	1000.000	993.705	4489833.00	1.0368	A	0.4
8	☐			2233.57	0.0005	P	9.5

$$y = 0.0010 * x + 1.3055\text{E-}005$$

R = 0.9999

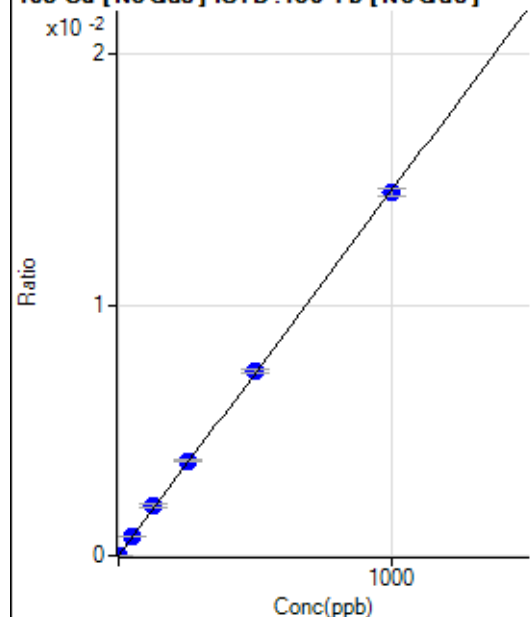
DL = 0.009179

BEC = 0.01251

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	21.7
2	☐	1.000	0.970	68.06	0.0000	P	14.6
3	☐	50.000	51.696	3164.30	0.0008	P	5.9
4	☐	125.000	135.600	8074.68	0.0020	P	6.2
5	☐	250.000	260.026	16101.18	0.0038	P	0.6
6	☐	500.000	504.644	31816.00	0.0073	P	2.3
7	☐	1000.000	993.762	62646.93	0.0145	P	2.2
8	☐			97.22	0.0000	P	34.9

$$y = 1.4556\text{E-}005 * x + 2.7467\text{E-}006$$

$$R = 0.9999$$

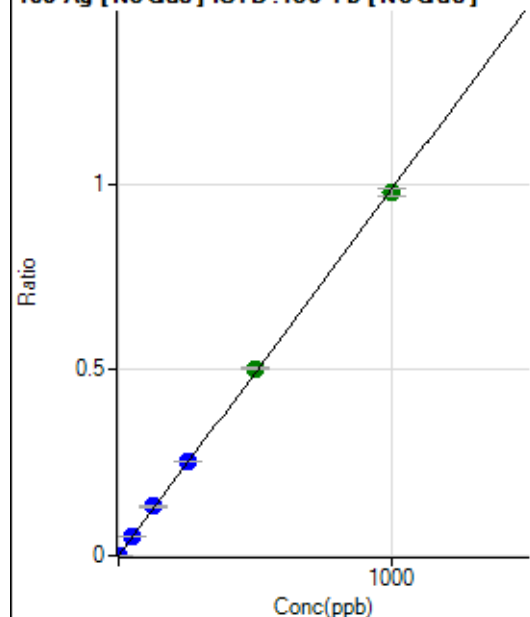
$$DL = 0.1227$$

$$BEC = 0.1887$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.55	0.0000	P	86.6
2	☐	1.000	1.064	4228.54	0.0010	P	4.0
3	☐	50.000	51.772	213517.98	0.0510	P	3.6
4	☐	125.000	134.886	542789.68	0.1328	P	3.9
5	☐	250.000	258.032	1079695.50	0.2540	P	1.3
6	☐	500.000	511.414	2179492.60	0.5035	A	1.5
7	☐	1000.000	990.961	4224041.81	0.9755	A	2.0
8	☐			2000.21	0.0005	P	15.5

$$y = 9.8444\text{E-}004 * x + 1.3729\text{E-}006$$

$$R = 0.9998$$

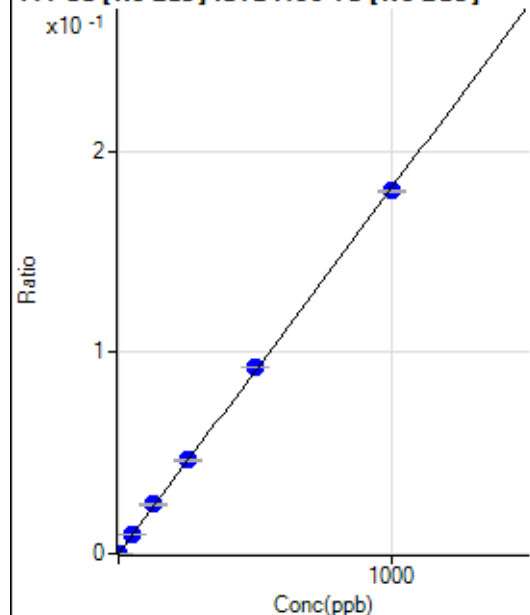
$$DL = 0.003623$$

$$BEC = 0.001395$$

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	12.84	0.0000	P	14.6
2	☐	1.000	1.057	788.20	0.0002	P	5.3
3	☐	50.000	51.540	39277.70	0.0094	P	2.5
4	☐	125.000	134.164	99703.62	0.0244	P	4.2
5	☐	250.000	255.256	197258.43	0.0464	P	1.4
6	☐	500.000	509.639	401137.48	0.0927	P	0.4
7	☐	1000.000	992.644	781506.10	0.1805	P	0.4
8	☐			222.31	0.0001	P	11.4

$$y = 1.8180\text{E-}004 * x + 3.1723\text{E-}006$$

$$R = 0.9999$$

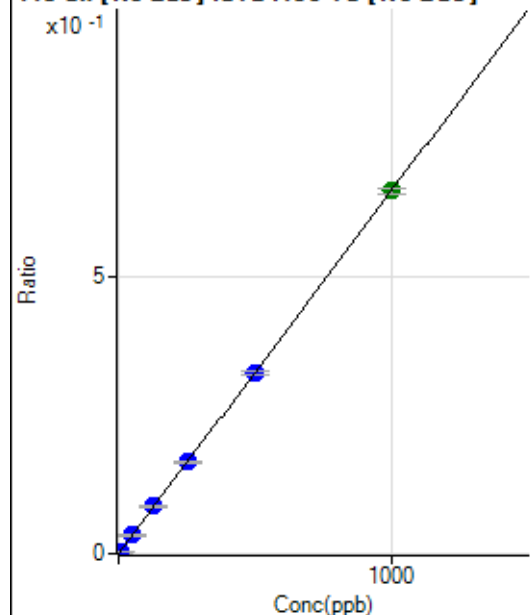
$$DL = 0.007643$$

$$BEC = 0.01745$$

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	327.79	0.0001	P	17.7
2	☐	5.000	5.288	14318.94	0.0036	P	4.9
3	☐	50.000	50.857	140233.46	0.0335	P	4.0
4	☐	125.000	130.983	351858.32	0.0861	P	4.3
5	☐	250.000	251.856	703303.84	0.1655	P	1.3
6	☐	500.000	498.361	1416993.98	0.3273	P	1.4
7	☐	1000.000	999.563	2842693.44	0.6564	A	1.7
8	☐			1602.92	0.0004	P	12.0

$$y = 6.5664\text{E-}004 * x + 8.1017\text{E-}005$$

$$R = 1.0000$$

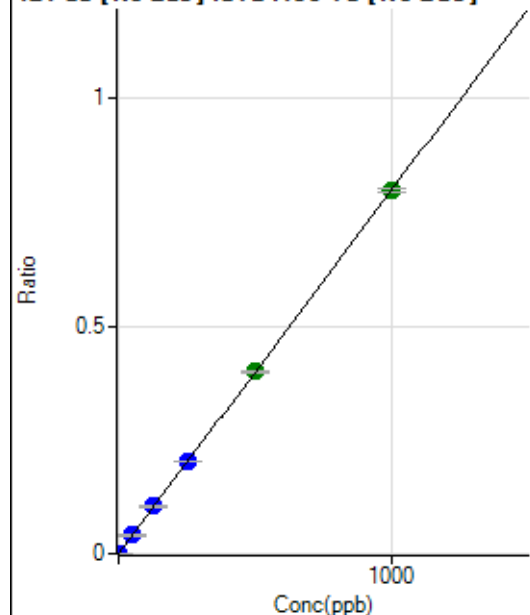
$$DL = 0.06538$$

$$BEC = 0.1234$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	33.5
2	☐	2.000	2.143	6915.82	0.0017	P	3.6
3	☐	50.000	50.732	169550.98	0.0405	P	3.7
4	☐	125.000	131.782	429694.48	0.1051	P	3.9
5	☐	250.000	253.269	858719.61	0.2020	P	1.1
6	☐	500.000	500.033	1726718.24	0.3989	A	1.0
7	☐	1000.000	998.282	3448007.63	0.7963	A	1.2
8	☐			2347.49	0.0005	P	11.3

$$y = 7.9765E-004 * x + 6.1839E-006$$

$$R = 1.0000$$

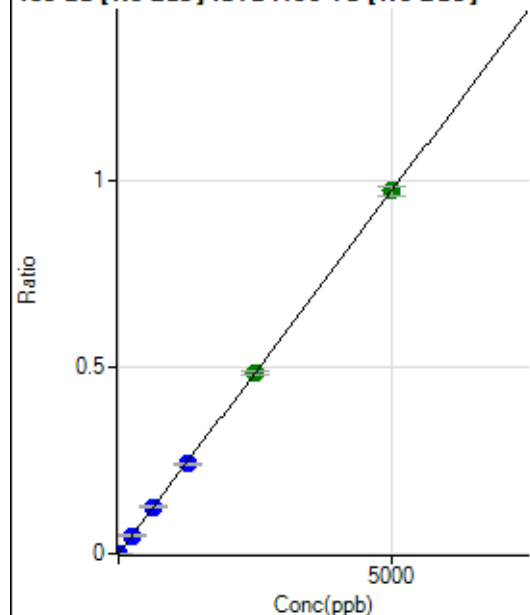
$$DL = 0.007781$$

$$BEC = 0.007753$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	10.000	10.474	8208.30	0.0020	P	3.1
3	☐	250.000	248.347	202226.13	0.0483	P	3.1
4	☐	625.000	643.232	510880.13	0.1250	P	4.7
5	☐	1250.000	1240.531	1024755.89	0.2411	P	1.3
6	☐	2500.000	2490.668	2095451.95	0.4841	A	2.1
7	☐	5000.000	5004.836	4211687.33	0.9727	A	2.5
8	☐			2144.68	0.0005	P	10.9

$$y = 1.9435E-004 * x + 6.8948E-007$$

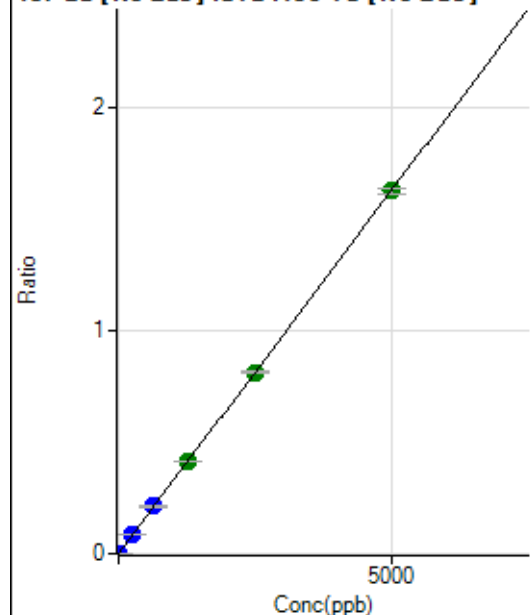
$$R = 1.0000$$

$$DL = 0.01843$$

$$BEC = 0.003548$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	16.9
2	☐	10.000	10.801	14202.26	0.0035	P	8.3
3	☐	250.000	256.307	349880.49	0.0835	P	3.2
4	☐	625.000	657.165	875069.89	0.2141	P	4.2
5	☐	1250.000	1269.400	1757971.17	0.4136	A	0.7
6	☐	2500.000	2492.642	3515686.75	0.8121	A	1.0
7	☐	5000.000	4994.491	7045455.71	1.6271	A	1.6
8	☐			3692.28	0.0008	P	12.2

$$y = 3.2578E-004 * x + 6.8643E-006$$

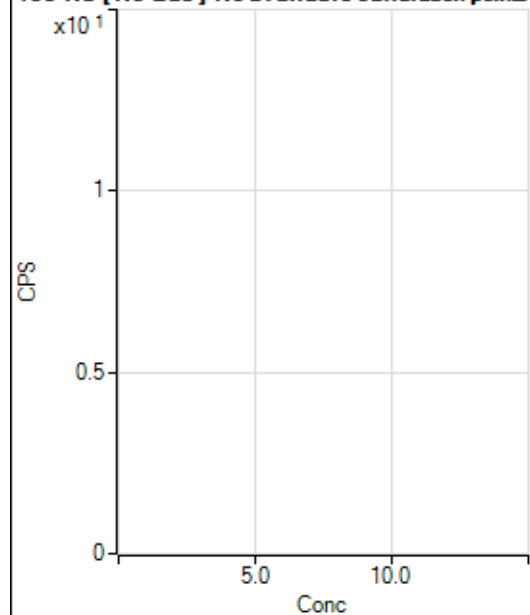
$$R = 1.0000$$

$$DL = 0.01068$$

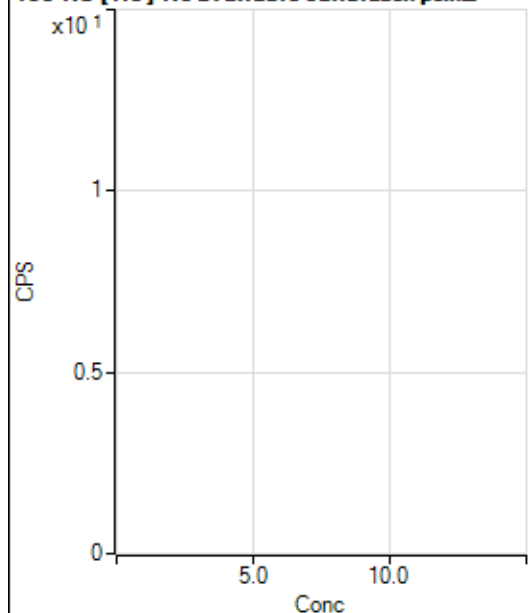
$$BEC = 0.02107$$

Weight: <None>

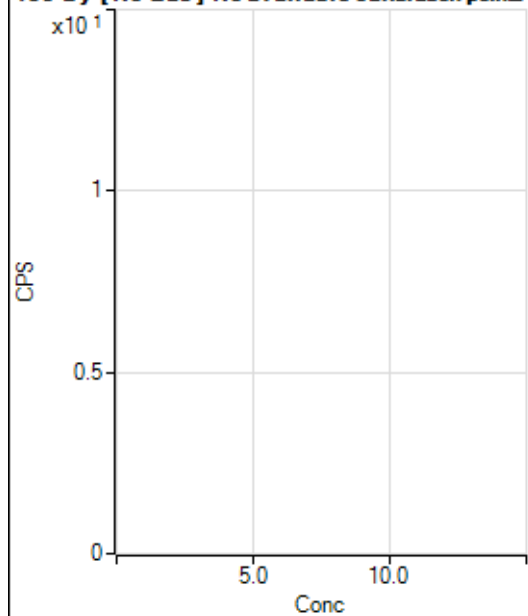
Min Conc: 0

150 Nd [No Gas] No available calibration points

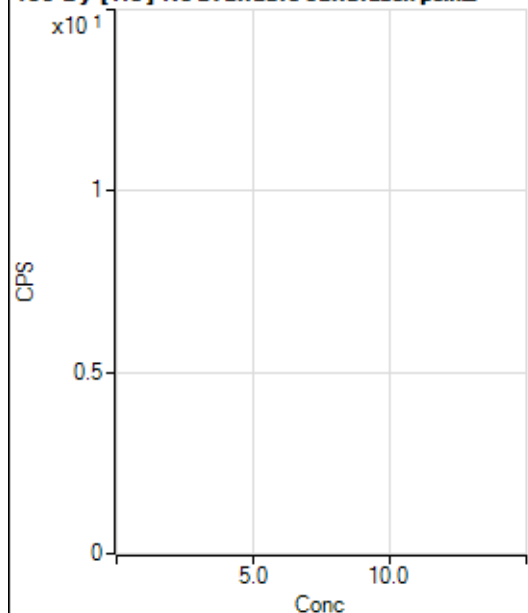
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			4.44		P	173.2
3	☐			33.33		P	20.0
4	☐			48.89		P	28.4
5	☐			35.56		P	60.3
6	☐			86.67		P	81.4
7	☐			175.56		P	15.3
8	☐			28.89		P	26.6

150 Nd [He] No available calibration points

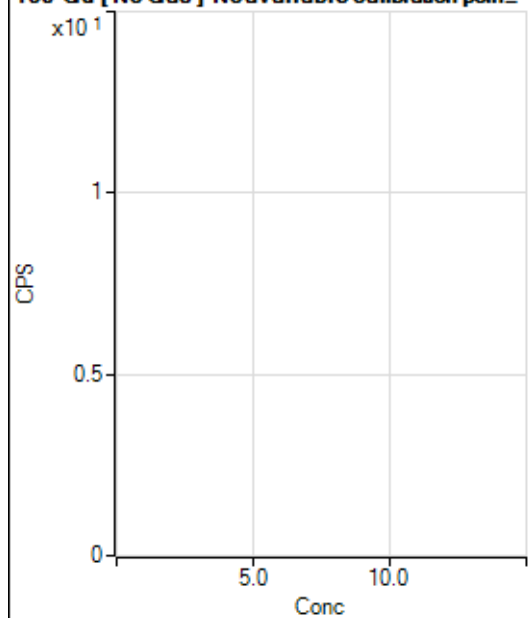
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			0.00		P	
3	☐			5.56		P	91.6
4	☐			0.00		P	
5	☐			3.33		P	0.0
6	☐			13.34		P	86.6
7	☐			14.44		P	66.6
8	☐			14.44		P	58.1

156 Dy [No Gas] No available calibration points

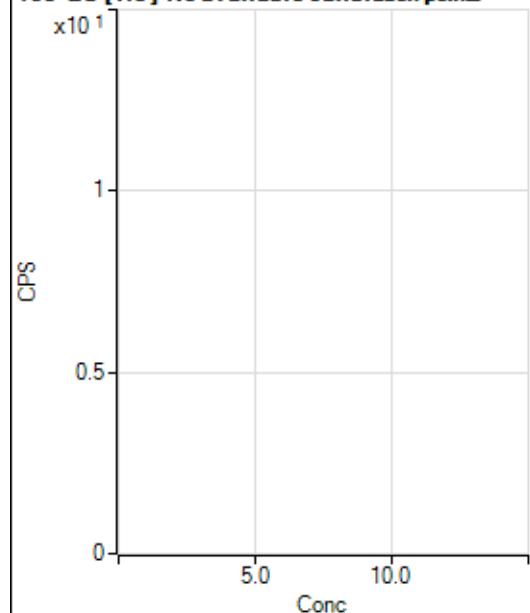
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			2.78		P	173.2
3	☐			11.11		P	114.6
4	☐			47.22		P	27.0
5	☐			66.67		P	37.5
6	☐			130.56		P	14.7
7	☐			191.67		P	11.5
8	☐			858.39		P	3.5

156 Dy [He] No available calibration points

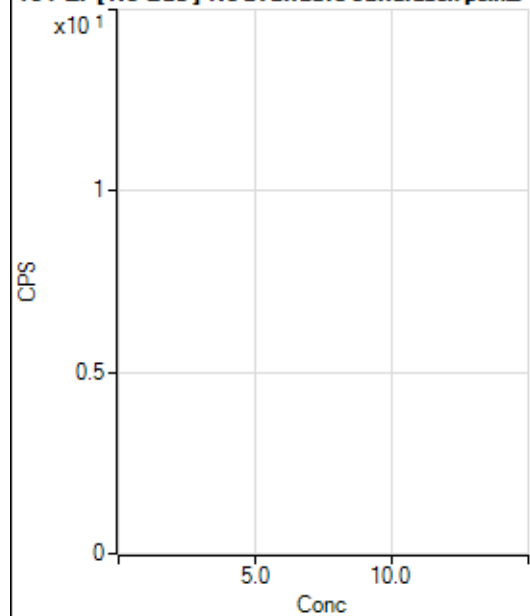
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.2
3	☐			5.56		P	91.6
4	☐			13.33		P	66.2
5	☐			21.11		P	71.2
6	☐			58.89		P	25.5
7	☐			77.78		P	13.1
8	☐			422.24		P	16.7

160 Gd [No Gas] Noavailable calibration poin_

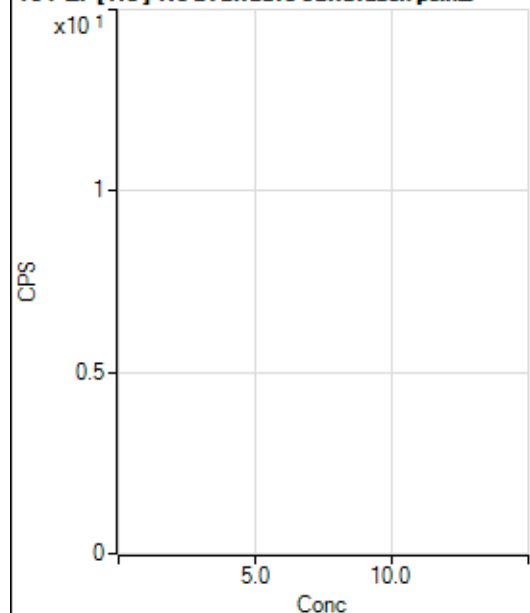
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			55.56		P	60.6
2	☐			44.45		P	28.7
3	☐			91.67		P	18.2
4	☐			52.78		P	18.2
5	☐			97.23		P	17.8
6	☐			97.23		P	32.5
7	☐			225.01		P	28.0
8	☐			888.95		P	3.0

160 Gd [He] No available calibration points

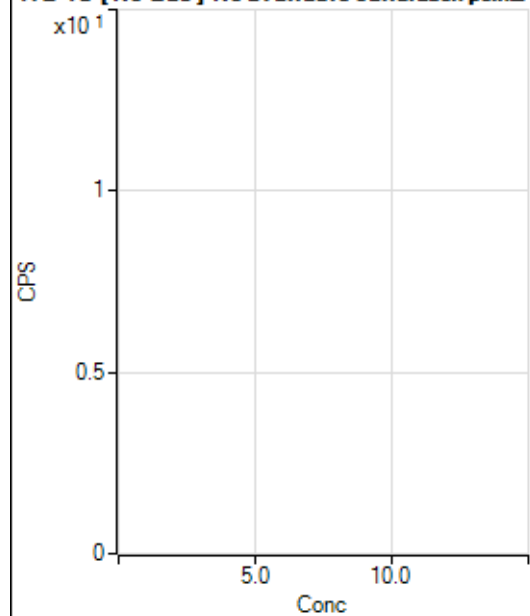
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	48.2
2	☐			15.55		P	24.8
3	☐			21.11		P	81.0
4	☐			30.00		P	19.2
5	☐			35.56		P	14.3
6	☐			42.22		P	9.1
7	☐			101.11		P	28.0
8	☐			472.24		P	2.9

164 Er [No Gas] No available calibration points

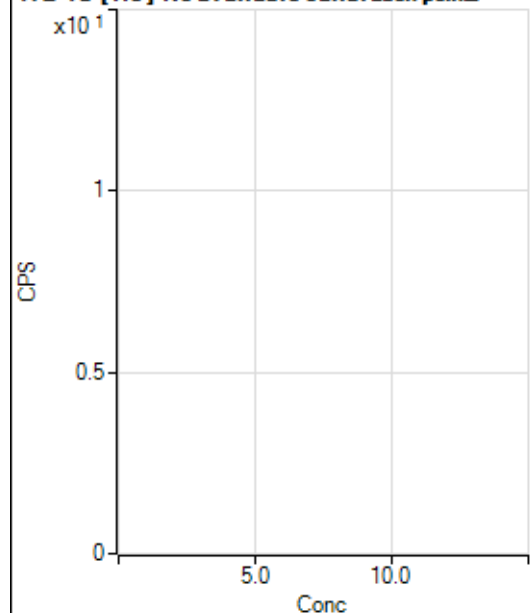
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	65.5
2	☐			41.67		P	52.9
3	☐			16.66		P	86.6
4	☐			16.67		P	50.0
5	☐			27.78		P	17.3
6	☐			36.11		P	53.3
7	☐			61.11		P	43.8
8	☐			144.45		P	37.1

164 Er [He] No available calibration points

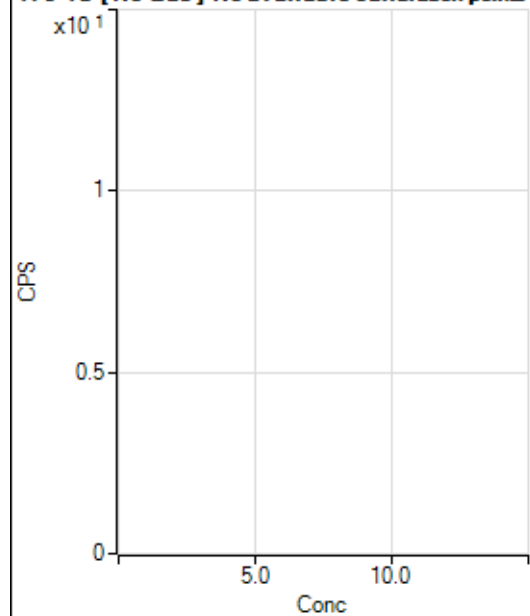
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	21.6
2	☐			3.33		P	100.1
3	☐			12.22		P	56.8
4	☐			6.67		P	100.0
5	☐			20.00		P	28.9
6	☐			18.89		P	36.7
7	☐			25.56		P	45.8
8	☐			71.11		P	33.9

172 Yb [No Gas] No available calibration points

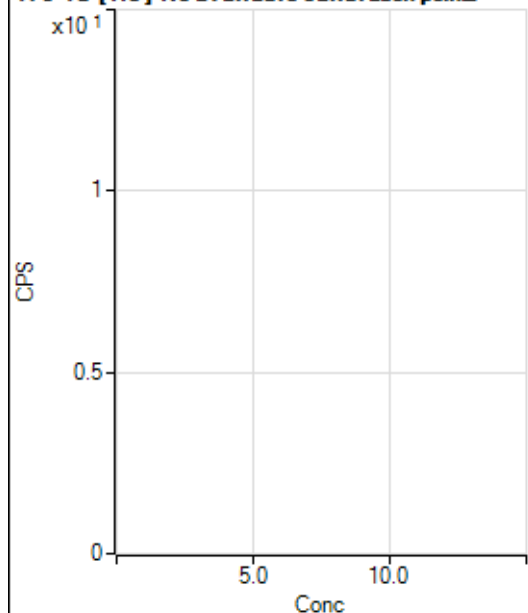
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.33		P	0.0
2	☐			8.33		P	0.0
3	☐			16.67		P	86.6
4	☐			5.55		P	86.6
5	☐			13.89		P	124.9
6	☐			13.89		P	34.7
7	☐			5.55		P	86.6
8	☐			25.00		P	33.3

172 Yb [He] No available calibration points

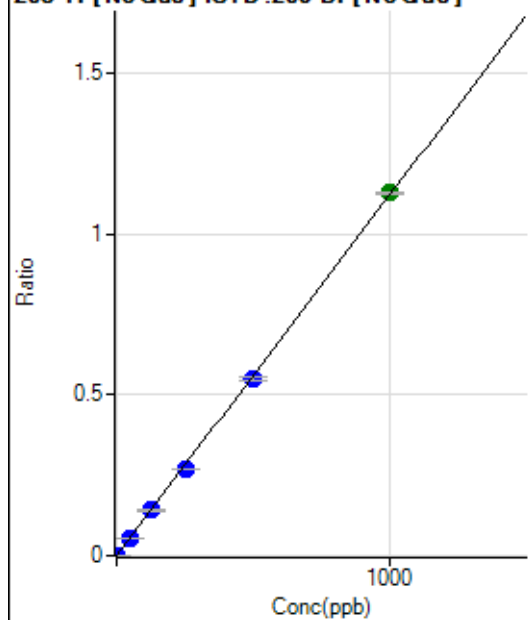
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			9.26		P	91.7
2	☐			0.00		P	
3	☐			3.71		P	86.6
4	☐			1.85		P	173.2
5	☐			5.56		P	100.0
6	☐			5.56		P	100.0
7	☐			7.41		P	114.5
8	☐			11.11		P	50.0

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			597.26		P	18.2
2	☐			600.03		P	14.5
3	☐			650.03		P	10.5
4	☐			605.59		P	10.3
5	☐			622.25		P	15.6
6	☐			625.03		P	8.1
7	☐			597.25		P	17.9
8	☐			641.70		P	14.0

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			737.07		P	17.4
2	☐			524.10		P	6.0
3	☐			511.13		P	5.0
4	☐			470.39		P	19.5
5	☐			453.72		P	9.3
6	☐			388.90		P	26.0
7	☐			437.05		P	15.8
8	☐			479.65		P	9.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	197.23	0.0001	P	46.3
2	☐	1.000	1.002	2608.67	0.0012	P	4.9
3	☐	50.000	49.398	120308.95	0.0555	P	1.0
4	☐	125.000	127.644	307391.21	0.1432	P	4.0
5	☐	250.000	239.682	614040.59	0.2688	P	1.7
6	☐	500.000	490.959	1249348.00	0.5506	P	2.3
7	☐	1000.000	1006.799	2599633.46	1.1290	A	0.7
8	☐			1127.86	0.0005	P	6.9

$$y = 0.0011 * x + 9.1778E-005$$

$$R = 0.9999$$

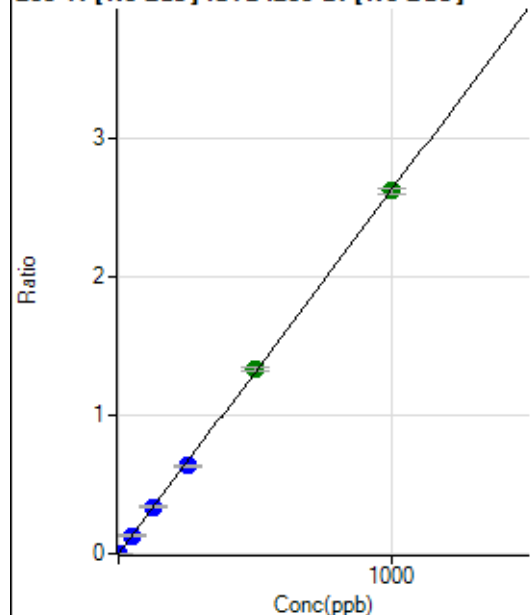
$$DL = 0.1137$$

$$BEC = 0.08185$$

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	375.02	0.0002	P	5.5
2	☐	1.000	0.993	5979.36	0.0028	P	3.1
3	☐	50.000	50.118	286143.48	0.1320	P	1.5
4	☐	125.000	128.183	723993.88	0.3372	P	2.6
5	☐	250.000	242.324	1455741.75	0.6374	P	2.6
6	☐	500.000	507.219	3027046.16	1.3340	A	2.1
7	☐	1000.000	997.906	6043152.52	2.6243	A	1.6
8	☐			2797.60	0.0013	P	9.8

$$y = 0.0026 * x + 1.7475E-004$$

$$R = 0.9999$$

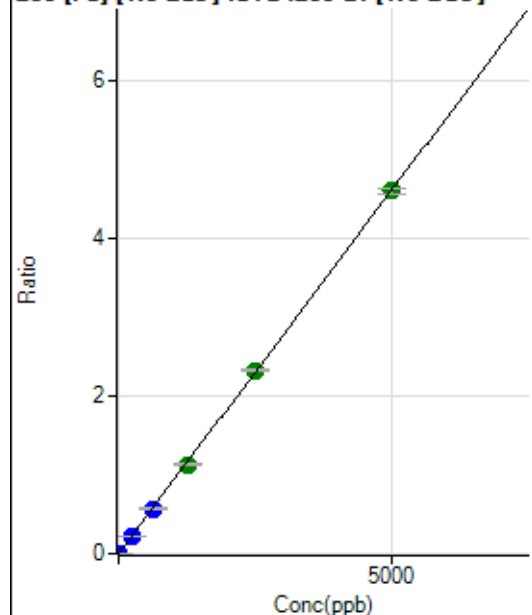
$$DL = 0.01094$$

$$BEC = 0.06645$$

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	164.82	0.0001	P	22.7
2	☐	1.000	1.060	2259.49	0.0011	P	7.3
3	☐	250.000	243.699	486716.93	0.2245	P	1.8
4	☐	625.000	621.064	1227770.57	0.5719	P	2.8
5	☐	1250.000	1230.053	2586966.55	1.1327	A	2.6
6	☐	2500.000	2522.233	5271223.78	2.3225	A	1.2
7	☐	5000.000	4994.677	10589668.87	4.5990	A	1.3
8	☐			7120.61	0.0033	P	7.9

$$y = 9.2077E-004 * x + 7.6790E-005$$

$$R = 1.0000$$

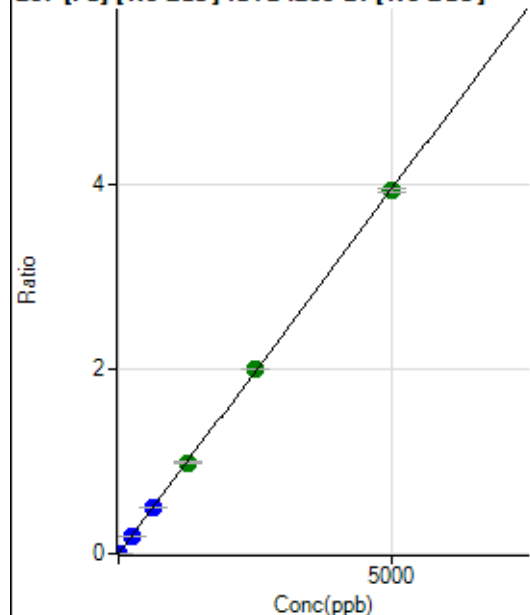
$$DL = 0.05684$$

$$BEC = 0.0834$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	161.12	0.0001	P	17.8
2	☐	1.000	1.015	1883.50	0.0009	P	6.6
3	☐	250.000	245.873	421898.24	0.1946	P	1.4
4	☐	625.000	634.865	1078168.68	0.5023	P	3.3
5	☐	1250.000	1251.185	2260904.42	0.9898	A	1.1
6	☐	2500.000	2539.301	4559781.70	2.0088	A	0.1
7	☐	5000.000	4979.026	9068923.35	3.9387	A	1.1
8	☐			6236.80	0.0029	P	3.3

$$y = 7.9104\text{E-}004 * x + 7.4988\text{E-}005$$

$$R = 1.0000$$

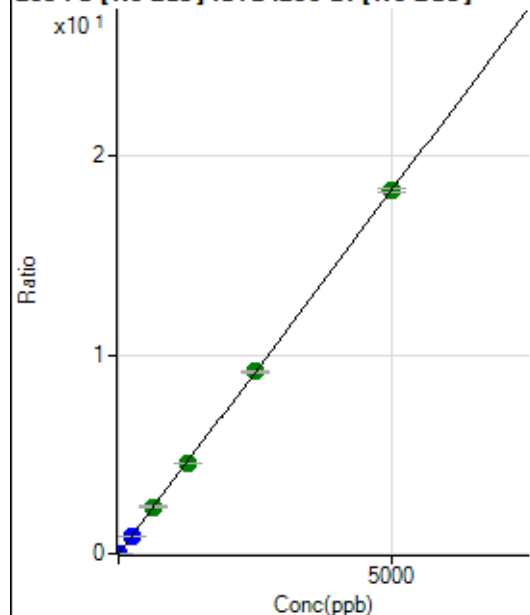
$$DL = 0.05063$$

$$BEC = 0.0948$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	688.91	0.0003	P	14.9
2	☐	1.000	1.045	8879.14	0.0041	P	4.8
3	☐	250.000	244.343	1935975.18	0.8928	P	0.8
4	☐	625.000	643.146	5043105.55	2.3494	A	3.3
5	☐	1250.000	1243.465	10375003.50	4.5421	A	0.9
6	☐	2500.000	2512.093	20825133.39	9.1758	A	0.9
7	☐	5000.000	4993.602	41996924.44	18.2395	A	1.1
8	☐			28329.24	0.0132	P	5.3

$$y = 0.0037 * x + 3.2105\text{E-}004$$

$$R = 1.0000$$

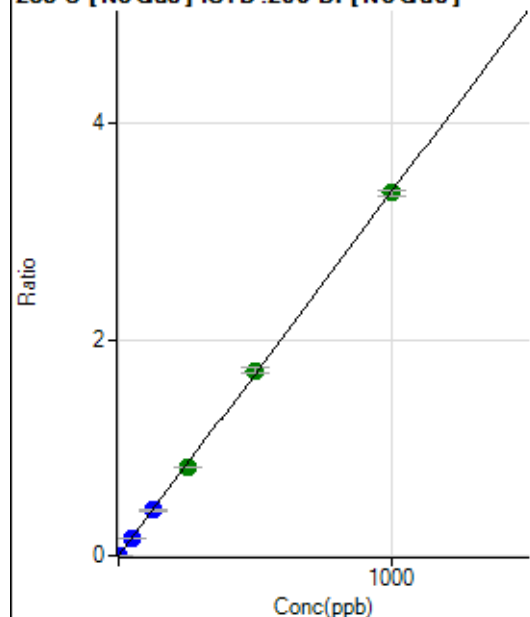
$$DL = 0.03922$$

$$BEC = 0.0879$$

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	8.33	0.0000	P	100.8
2	☐	1.000	0.967	6990.99	0.0033	P	3.4
3	☐	50.000	48.567	354251.53	0.1634	P	0.9
4	☐	125.000	125.757	907939.41	0.4230	P	3.9
5	☐	250.000	243.102	1867834.09	0.8177	A	2.0
6	☐	500.000	508.672	3881969.10	1.7110	A	2.9
7	☐	1000.000	997.366	7724023.52	3.3548	A	1.5
8	☐			2103.01	0.0010	P	9.2

$$y = 0.0034 * x + 3.8846E-006$$

$$R = 0.9999$$

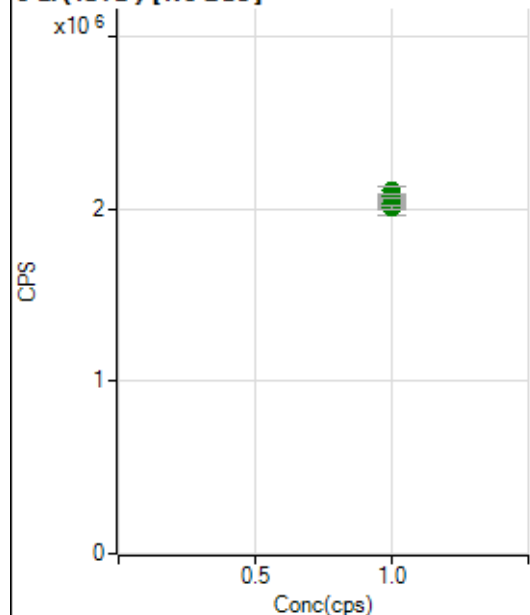
$$DL = 0.003494$$

$$BEC = 0.001155$$

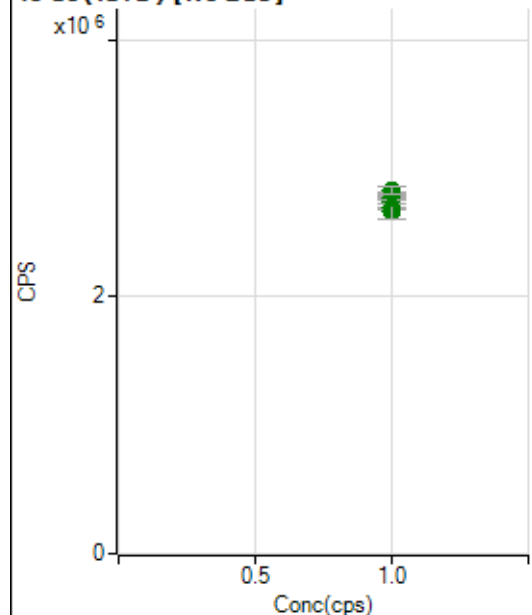
Weight: <None>

Min Conc: 0

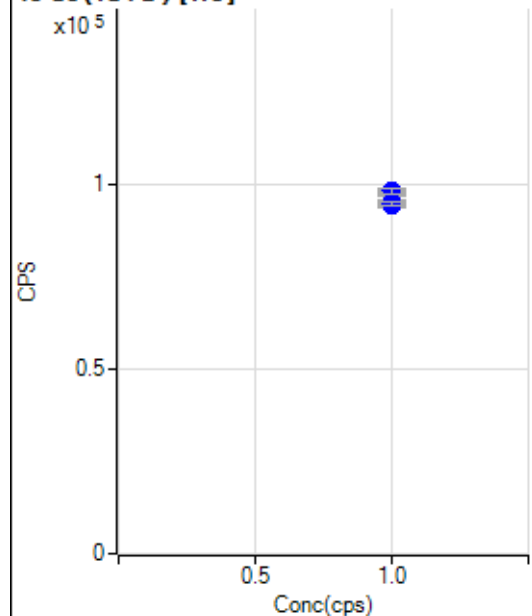
6 Li (ISTD) [No Gas]



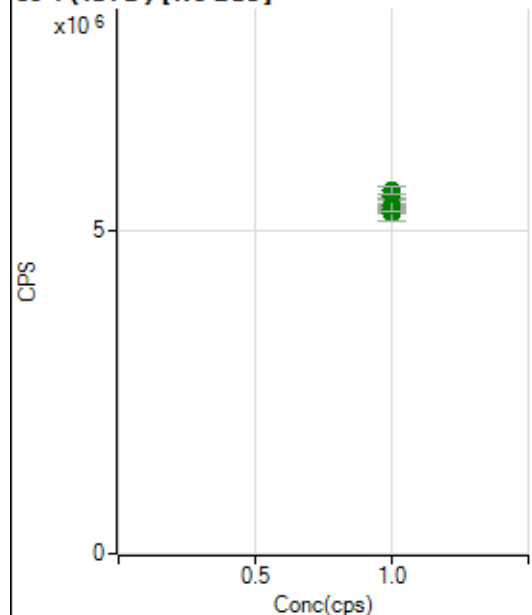
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2063784.26		A	1.4
2	☐	1.000		2030942.16		A	1.0
3	☐	1.000		2052461.27		A	1.8
4	☐	1.000		2010675.01		A	4.2
5	☐	1.000		2107118.05		A	2.8
6	☐	1.000		2076550.35		A	1.2
7	☐	1.000		2036116.79		A	2.7
8	☐	1.000		2013870.85		A	1.1

45 Sc (ISTD) [No Gas]

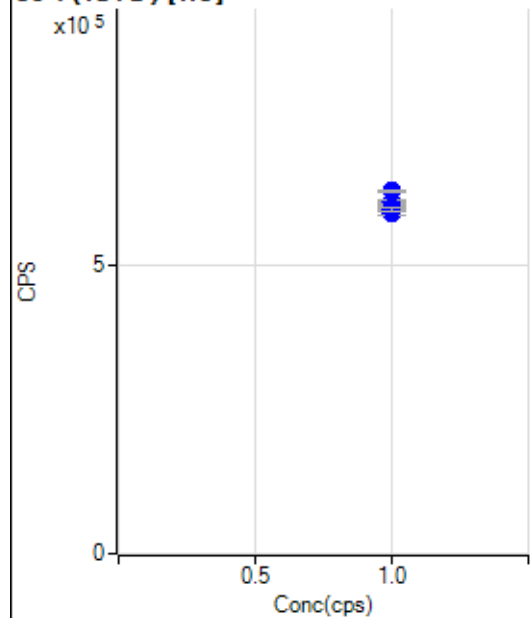
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2683207.48		A	0.5
2	☐	1.000		2698926.36		A	1.7
3	☐	1.000		2744590.65		A	1.4
4	☐	1.000		2657070.17		A	4.4
5	☐	1.000		2808925.72		A	0.7
6	☐	1.000		2764426.33		A	1.4
7	☐	1.000		2813833.18		A	0.4
8	☐	1.000		2821875.10		A	2.2

45 Sc (ISTD) [He]

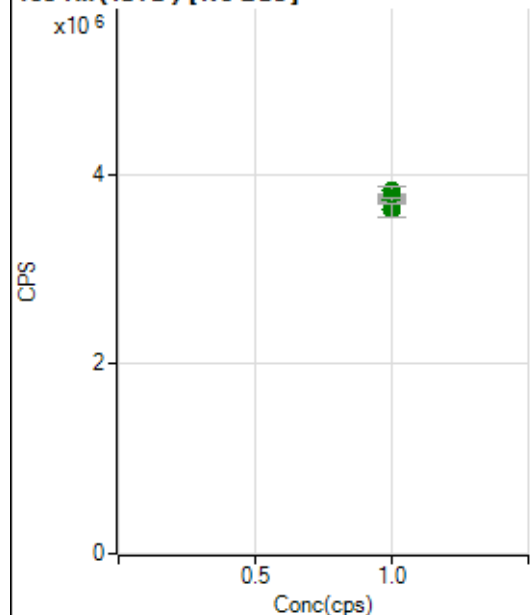
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		95365.21		P	1.2
2	☐	1.000		97836.85		P	1.7
3	☐	1.000		97804.43		P	0.4
4	☐	1.000		97681.19		P	1.2
5	☐	1.000		97116.45		P	0.5
6	☐	1.000		94642.21		P	1.4
7	☐	1.000		94912.96		P	1.0
8	☐	1.000		98415.20		P	1.3

89 Y (ISTD) [No Gas]

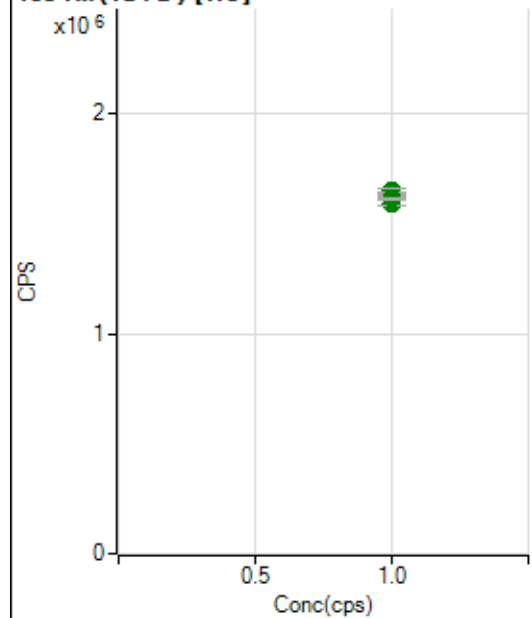
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5315176.69		A	0.3
2	☐	1.000		5316706.24		A	1.5
3	☐	1.000		5415865.34		A	0.6
4	☐	1.000		5272403.50		A	4.1
5	☐	1.000		5540363.80		A	0.9
6	☐	1.000		5387132.42		A	3.1
7	☐	1.000		5561087.00		A	0.2
8	☐	1.000		5616146.10		A	2.0

89 Y (ISTD) [He]

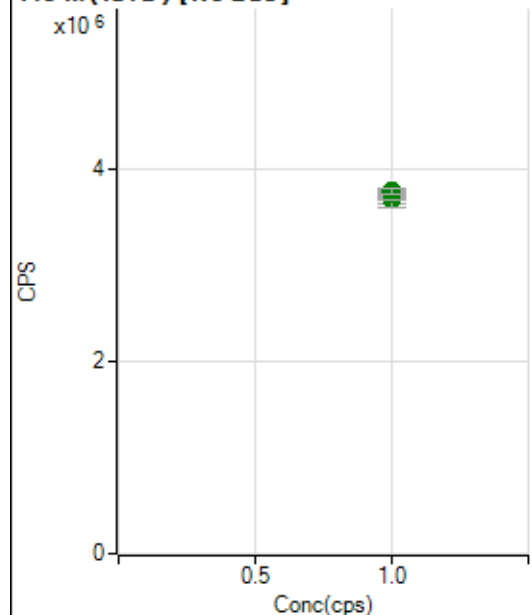
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		592081.52		P	1.9
2	☐	1.000		601633.46		P	1.8
3	☐	1.000		607407.82		P	0.9
4	☐	1.000		607806.82		P	0.6
5	☐	1.000		610797.59		P	1.0
6	☐	1.000		601407.18		P	0.6
7	☐	1.000		598788.97		P	1.3
8	☐	1.000		630181.45		P	0.5

103 Rh (ISTD) [No Gas]

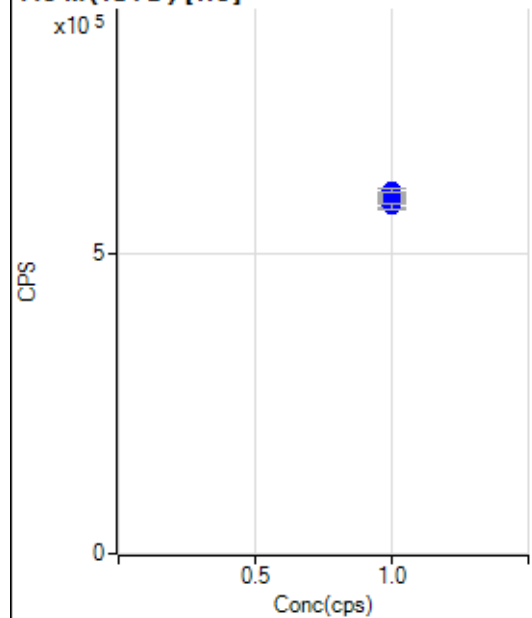
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3697011.06		A	0.4
2	☐	1.000		3720054.55		A	0.3
3	☐	1.000		3751490.45		A	1.2
4	☐	1.000		3641750.04		A	4.4
5	☐	1.000		3830376.87		A	2.0
6	☐	1.000		3748666.40		A	1.6
7	☐	1.000		3738003.30		A	0.9
8	☐	1.000		3624006.72		A	3.5

103 Rh (ISTD) [He]

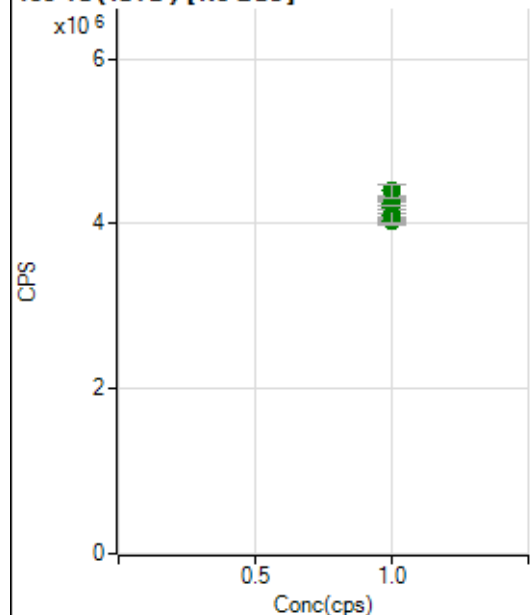
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1593410.29		A	1.5
2	☐	1.000		1635070.46		A	1.0
3	☐	1.000		1634052.86		A	1.0
4	☐	1.000		1633128.90		A	0.8
5	☐	1.000		1630773.66		A	0.2
6	☐	1.000		1648284.21		A	1.1
7	☐	1.000		1591329.42		A	1.6
8	☐	1.000		1612656.66		A	0.2

115 In (ISTD) [No Gas]

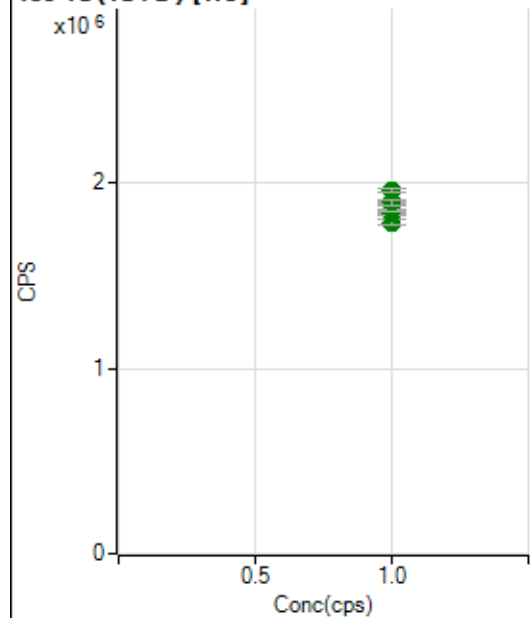
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3687767.08		A	0.9
2	☐	1.000		3677309.35		A	2.0
3	☐	1.000		3727154.69		A	1.7
4	☐	1.000		3675809.03		A	3.6
5	☐	1.000		3758719.35		A	1.0
6	☐	1.000		3759451.05		A	2.2
7	☐	1.000		3730058.45		A	2.2
8	☐	1.000		3772571.12		A	1.8

115 In (ISTD) [He]

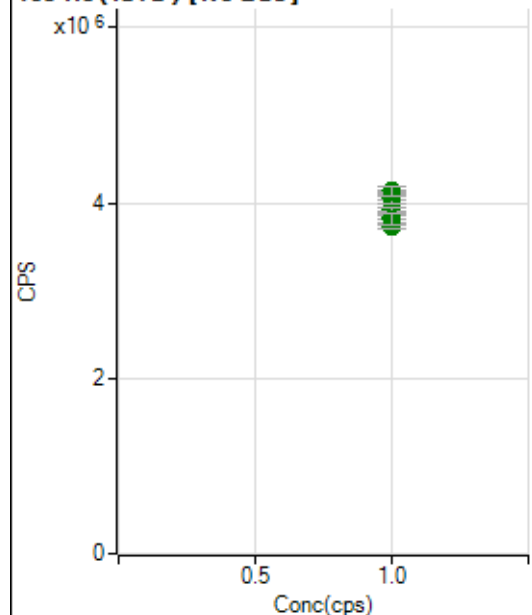
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		583084.36		P	1.8
2	☐	1.000		592083.60		P	0.5
3	☐	1.000		599301.82		P	0.2
4	☐	1.000		598032.26		P	0.4
5	☐	1.000		600600.88		P	0.2
6	☐	1.000		584957.61		P	0.3
7	☐	1.000		580411.44		P	1.5
8	☐	1.000		606259.55		P	0.9

159 Tb (ISTD) [No Gas]

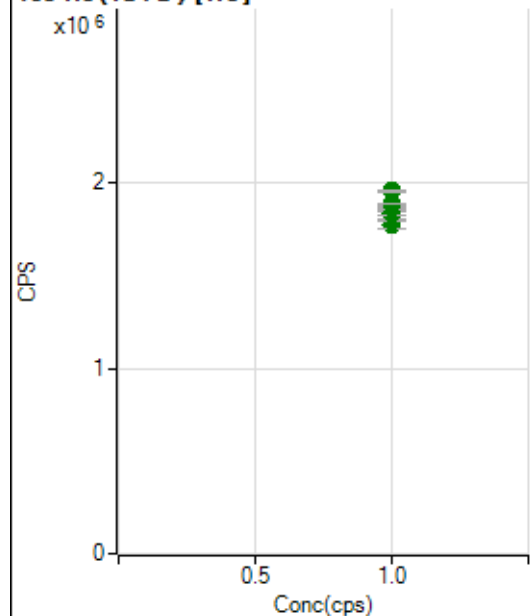
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4044827.48		A	0.4
2	☐	1.000		4033101.78		A	2.6
3	☐	1.000		4192691.67		A	3.4
4	☐	1.000		4091482.33		A	3.8
5	☐	1.000		4250945.32		A	1.4
6	☐	1.000		4329356.08		A	0.8
7	☐	1.000		4330335.25		A	0.8
8	☐	1.000		4397987.47		A	3.6

159 Tb (ISTD) [He]

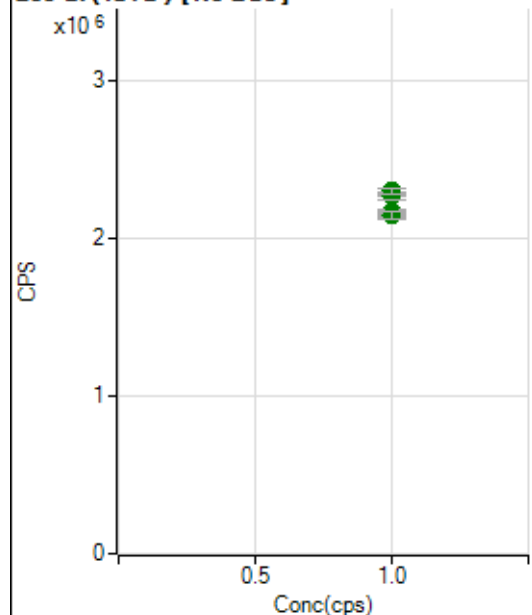
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1787320.65		A	1.7
2	☐	1.000		1831308.74		A	0.6
3	☐	1.000		1836845.23		A	1.4
4	☐	1.000		1852598.34		A	0.3
5	☐	1.000		1902074.80		A	0.8
6	☐	1.000		1898084.09		A	1.4
7	☐	1.000		1895456.66		A	1.5
8	☐	1.000		1956849.24		A	1.2

165 Ho (ISTD) [No Gas]

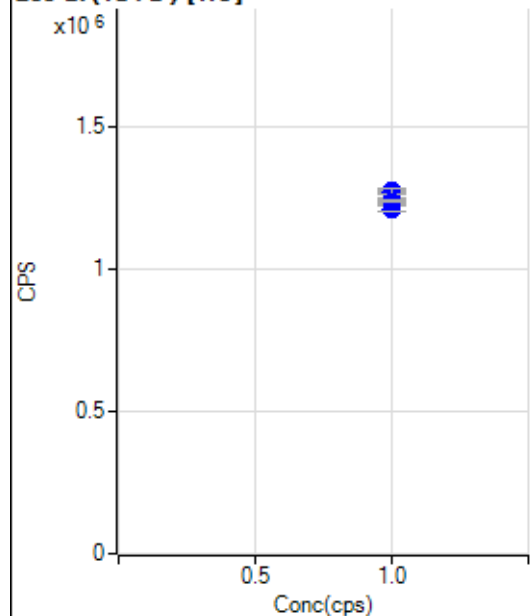
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3833651.43		A	1.0
2	☐	1.000		3737472.48		A	1.7
3	☐	1.000		3934563.37		A	1.2
4	☐	1.000		3815238.06		A	3.7
5	☐	1.000		4060267.54		A	1.4
6	☐	1.000		4052393.32		A	3.0
7	☐	1.000		4132275.13		A	0.3
8	☐	1.000		4138660.16		A	2.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1772196.55		A	2.4
2	☐	1.000		1800765.41		A	0.6
3	☐	1.000		1836584.83		A	3.0
4	☐	1.000		1838787.44		A	0.7
5	☐	1.000		1867981.14		A	0.9
6	☐	1.000		1866006.57		A	0.9
7	☐	1.000		1891361.38		A	0.4
8	☐	1.000		1959257.42		A	0.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2145210.91		A	1.4
2	☐	1.000		2147099.24		A	2.1
3	☐	1.000		2168670.79		A	1.6
4	☐	1.000		2147617.68		A	2.3
5	☐	1.000		2284352.75		A	1.2
6	☐	1.000		2269918.96		A	2.4
7	☐	1.000		2302680.89		A	1.3
8	☐	1.000		2145841.88		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1213305.28		P	1.7
2	☐	1.000		1240891.50		P	1.2
3	☐	1.000		1244567.74		P	0.6
4	☐	1.000		1249322.85		P	1.0
5	☐	1.000		1277360.59		P	0.6
6	☐	1.000		1275003.84		P	1.1
7	☐	1.000		1274828.60		P	1.4
8	☐	1.000		1240573.26		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8062121PMS.b
Acq. Date-Time 2021-06-21 11:00:27
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		5517	55174.91			1.492	5.000
24		43357	433574.13			1.246	5.000
25		6145	61451.98			0.827	5.000
26		7378	73783.05			1.013	5.000
59		8876	88756.04			0.578	5.000
113		3773	37730.47			0.660	5.000
115		11679	116794.16			1.158	5.000
206		4137	41368.71			1.244	5.000
207		3446	34458.80			1.060	5.000
208		8588	85878.79			1.036	5.000
220		1	5.60			24.776	

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

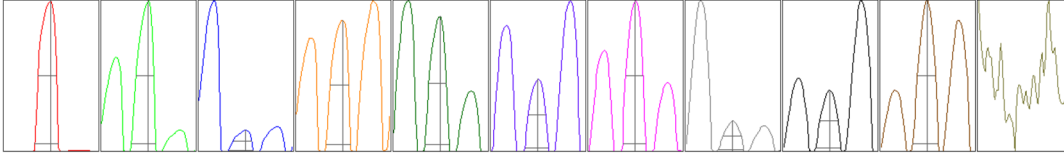
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5586	5563	5472	5573	5394
24	42842	43609	43621	43977	42738
25	6138	6180	6154	6192	6063
26	7437	7366	7357	7461	7271
59	8847	8873	8873	8960	8825
113	3757	3802	3749	3798	3759
115	11759	11779	11579	11788	11492
206	4123	4180	4109	4199	4074
207	3448	3482	3412	3482	3405
208	8666	8682	8536	8585	8470

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9803.45	9.00	8.90 - 9.10	
24	80450.06	24.00	23.90 - 24.10	
25	10963.33	25.00	24.90 - 25.10	
26	12692.43	26.00	25.90 - 26.10	
59	16679.15	59.00	58.90 - 59.10	
113	7227.68	113.00	112.90 - 113.10	
115	22582.81	115.00	114.90 - 115.10	
206	7661.01	206.00	205.90 - 206.10	
207	6326.44	207.00	206.90 - 207.10	
208	15737.73	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.737	0.900	
24	0.57	0.771	0.900	
25	0.59	0.775	0.900	
26	0.60	0.777	0.900	
59	0.55	0.776	0.900	
113	0.55	0.739	0.900	
115	0.54	0.731	0.900	
206	0.57	0.794	0.900	
207	0.57	0.799	0.900	
208	0.57	0.819	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.65 L/min Dilution Gas 0.40 L/min

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	16.0 V
Extract 2	-185.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-105 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	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9995	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.05		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.9 mm
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EM

Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1958	19581.44			0.700	
89		9154	91538.38			0.719	
205		12466	124662.87			1.771	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1978	1965	1947	1954	1946
89	9244	9176	9082	9097	9171
205	12775	12477	12308	12211	12561

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.65 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.5 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-185.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-105 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	0.9995	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.05		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.9 mm		
EM					
Discriminator	4.0 mV	Analog HV	2207 V	Pulse HV	1535 V