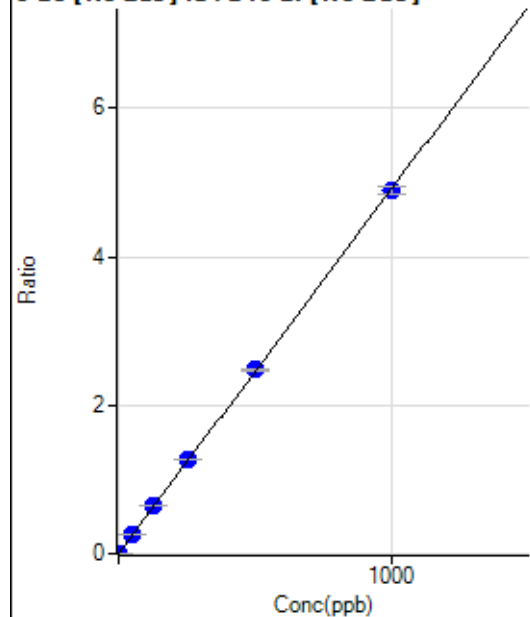


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091520M.b\
Analysis File: P8091520M.batch.bin
DA Date-Time: 2020-09-16 01:22:10
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2020-09-15 11:32:42
2	004CALS.d	S02	2020-09-15 11:39:29
3	005CALS.d	S03	2020-09-15 11:42:50
4	006CALS.d	S04	2020-09-15 11:46:14
5	007CALS.d	S05	2020-09-15 11:49:30
6	008CALS.d	S06	2020-09-15 11:52:41
7	010CALS.d	S07	2020-09-15 11:58:46
8	011CALS.d	S08	2020-09-15 12:01:44

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	47.32	0.0004	P	11.5
2	☐	1.000	0.948	597.90	0.0050	P	4.3
3	☐	50.000	52.399	30733.76	0.2577	P	1.5
4	☐	125.000	131.646	77738.22	0.6468	P	0.7
5	☐	250.000	258.163	154550.39	1.2681	P	0.2
6	☐	500.000	504.287	307044.61	2.4767	P	1.2
7	☐	1000.000	994.865	610420.81	4.8856	P	2.1
8	☐			217.29	0.0017	P	6.0

$$y = 0.0049 * x + 3.9409E-004$$

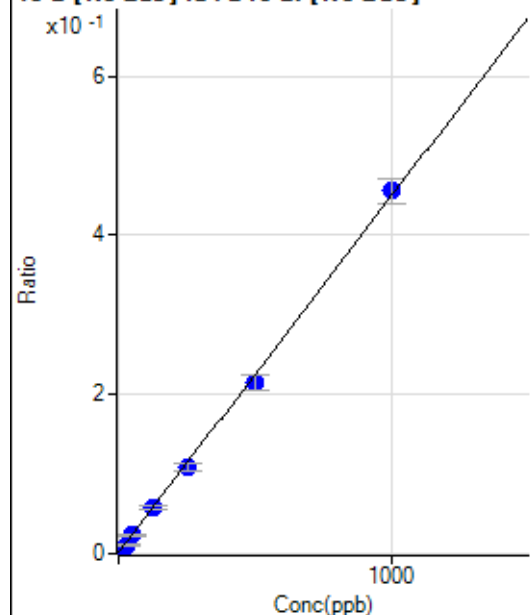
$$R = 0.9999$$

$$DL = 0.02759$$

$$BEC = 0.08026$$

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	163.97	0.0014	P	4.0
2	☐	25.000	20.836	1268.48	0.0107	P	14.3
3	☐	50.000	49.176	2791.72	0.0234	P	8.1
4	☐	125.000	123.962	6840.93	0.0569	P	8.4
5	☐	250.000	238.034	13167.99	0.1080	P	8.4
6	☐	500.000	478.440	26749.06	0.2158	P	9.2
7	☐	1000.000	1014.047	56982.83	0.4558	P	6.8
8	☐			9217.77	0.0710	P	12.1

$$y = 4.4814E-004 * x + 0.0014$$

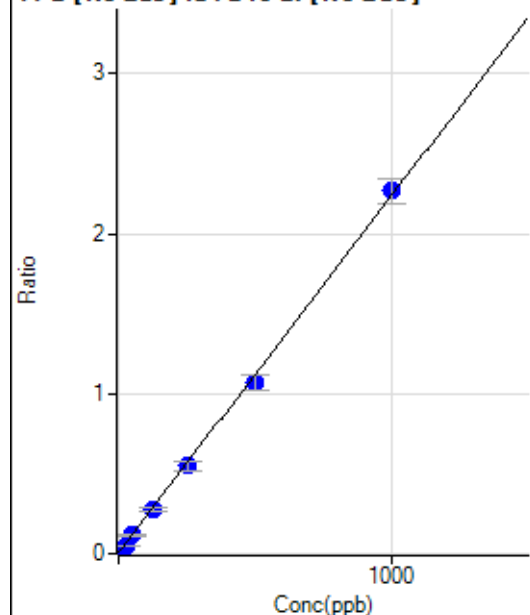
$$R = 0.9996$$

$$DL = 0.3657$$

$$BEC = 3.048$$

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	766.54	0.0064	P	6.8
2	☐	25.000	20.579	6195.44	0.0523	P	6.8
3	☐	50.000	49.003	13802.45	0.1157	P	8.8
4	☐	125.000	122.166	33523.58	0.2789	P	9.5
5	☐	250.000	242.415	66695.54	0.5472	P	9.0
6	☐	500.000	477.722	132913.94	1.0722	P	9.2
7	☐	1000.000	1013.550	283494.18	2.2676	P	6.8
8	☐			45919.28	0.3540	P	13.3

$$y = 0.0022 * x + 0.0064$$

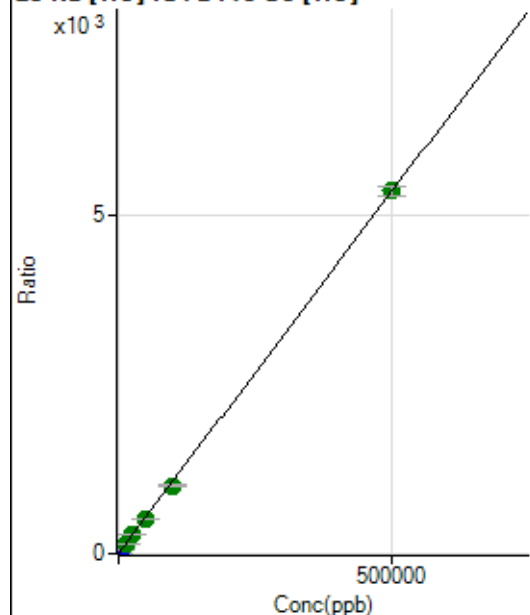
$$R = 0.9996$$

$$DL = 0.5867$$

$$BEC = 2.864$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	44969.87	4.1195	P	3.2
2	☐	500.000	498.440	103594.37	9.4470	P	1.1
3	☐	5000.000	5422.495	681229.05	62.0767	P	6.3
4	☐	12500.000	13169.512	1641005.72	144.8790	A	2.6
5	☐	25000.000	26441.635	3208997.45	286.7353	A	5.6
6	☐	50000.000	48786.212	6241601.88	525.5605	A	0.1
7	☐	100000.00	93123.544	12458990.21	999.4505	A	3.1
8	☐	500000.00	501403.62	60220363.85	5,363.2644	A	2.7

$$y = 0.0107 * x + 4.1195$$

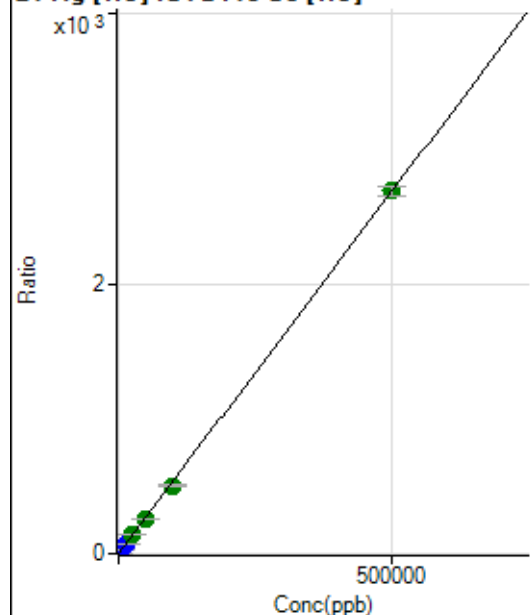
$$R = 0.9999$$

$$DL = 37.15$$

$$BEC = 385.4$$

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	575.03	0.0528	P	30.9
2	☐	500.000	498.828	29889.45	2.7266	P	3.4
3	☐	5000.000	5486.427	323366.38	29.4613	P	5.8
4	☐	12500.000	13418.488	815232.00	71.9790	P	2.9
5	☐	25000.000	27050.133	1623524.93	145.0478	A	5.4
6	☐	50000.000	48872.133	3111831.06	262.0189	A	0.9
7	☐	100000.00	93492.222	6248914.20	501.1931	A	2.0
8	☐	500000.00	501284.01	30171418.03	2,687.0532	A	2.6

$$y = 0.0054 * x + 0.0528$$

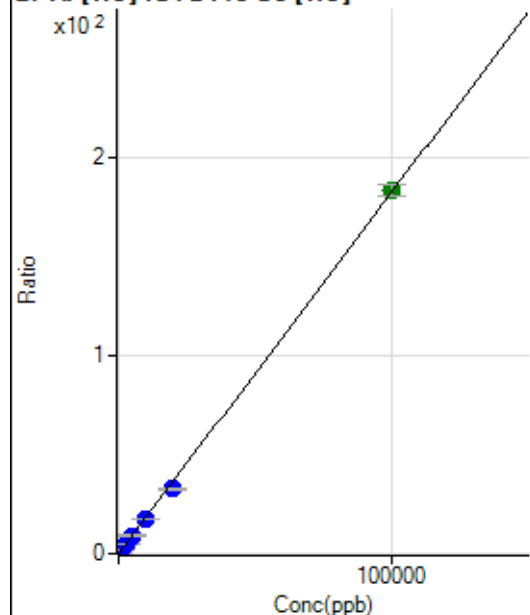
$$R = 0.9999$$

$$DL = 9.133$$

$$BEC = 9.842$$

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	647.85	0.0593	P	2.4
2	☐	20.000	19.988	1049.08	0.0957	P	2.5
3	☐	1000.000	1010.949	20832.24	1.8976	P	5.2
4	☐	2500.000	2490.965	51967.63	4.5888	P	3.5
5	☐	5000.000	5026.180	102922.43	9.1988	P	6.1
6	☐	10000.000	9318.657	201937.41	17.0041	P	0.5
7	☐	20000.000	17833.387	405030.73	32.4870	P	2.1
8	☐	100000.00	100500.26	2052455.85	182.8056	A	3.1

$$y = 0.0018 * x + 0.0593$$

$$R = 0.9997$$

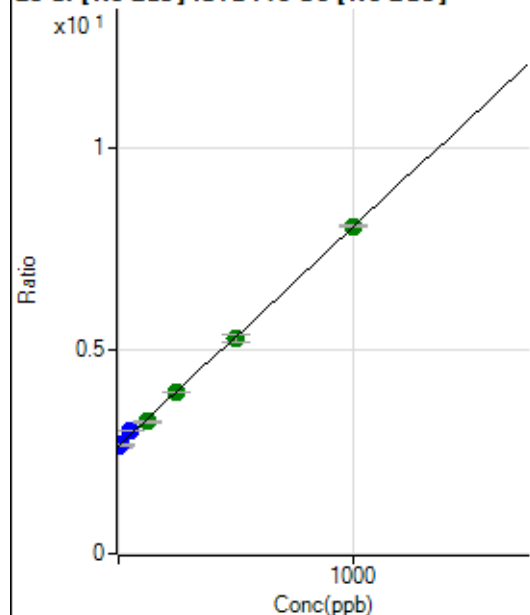
$$DL = 2.386$$

$$BEC = 32.63$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	699080.60	2.6592	P	2.9
2	☐	10.000	5.477	707434.90	2.6887	P	1.3
3	☐	50.000	66.978	807177.15	3.0196	P	0.5
4	☐	125.000	111.055	887780.90	3.2567	A	1.1
5	☐	250.000	244.723	1085117.25	3.9759	A	0.7
6	☐	500.000	492.273	1485090.32	5.3078	A	2.8
7	☐	1000.000	1006.122	2232991.76	8.0724	A	1.0
8	☐			900728.80	3.2982	A	1.5

$$y = 0.0054 * x + 2.6592$$

$$R = 0.9996$$

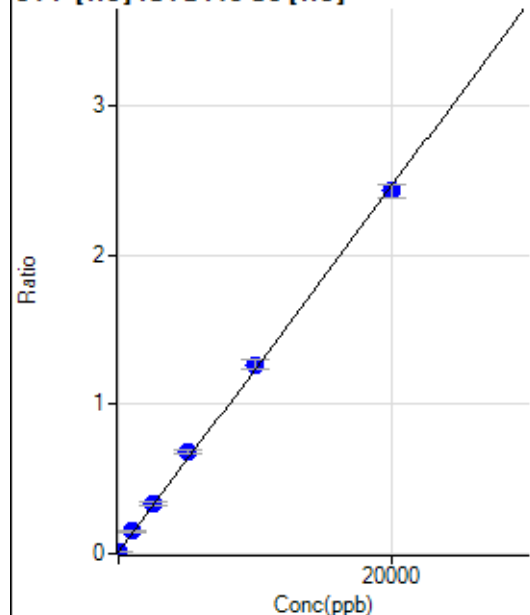
$$DL = 42.29$$

$$BEC = 494.3$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	5.422	136.12	0.0125	P	21.9
2	☐	0.000	-5.422	122.23	0.0111	P	16.0
3	☐	1000.000	1116.044	1627.92	0.1487	P	12.4
4	☐	2500.000	2618.773	3767.27	0.3329	P	8.0
5	☐	5000.000	5468.052	7641.10	0.6823	P	4.0
6	☐	10000.000	10250.834	15063.67	1.2687	P	5.8
7	☐	20000.000	19736.921	30312.81	2.4318	P	3.5
8	☐			152.79	0.0136	P	39.8

$$y = 1.2261E-004 * x + 0.0118$$

$$R = 0.9996$$

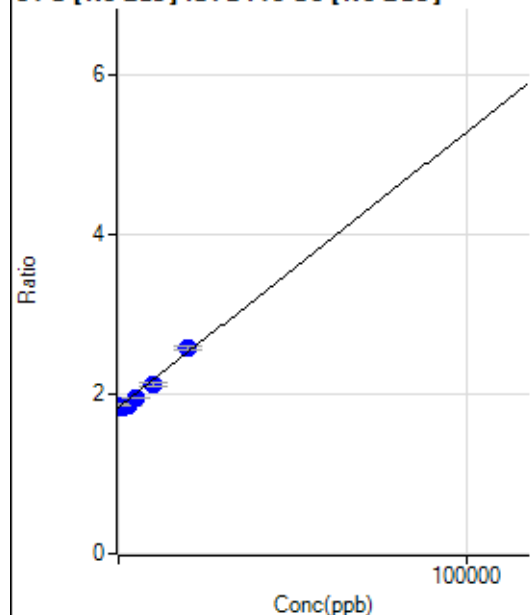
$$DL = 55.24$$

$$BEC = 96.34$$

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	427.114	486157.12	1.8492	P	2.6
2	☐	0.000	-427.114	478824.82	1.8198	P	1.0
3	☐	1000.000	7.391	490445.51	1.8348	P	0.6
4	☐	2500.000	666.681	506334.49	1.8574	P	0.8
5	☐	5000.000	3498.891	533532.56	1.9549	P	0.4
6	☐	10000.000	8034.530	590674.68	2.1109	P	2.2
7	☐	20000.000	21636.808	713309.56	2.5789	P	1.6
8	☐			456552.81	1.6719	P	1.1

$$y = 3.4406\text{E-}005 * x + 1.8345$$

$$R = 0.9890$$

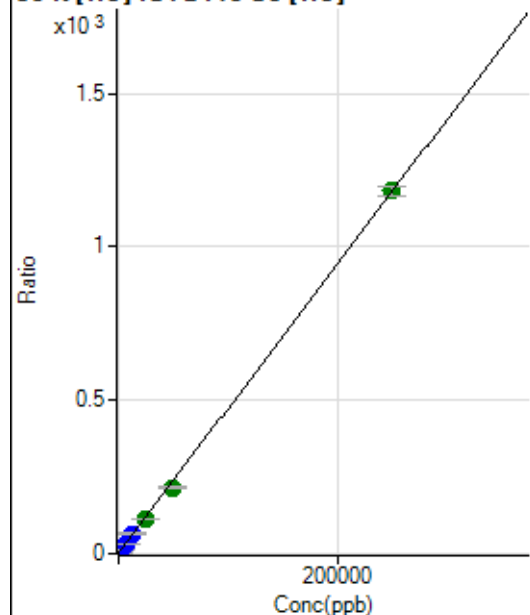
$$DL = 2917$$

$$BEC = 5.332\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30237.75	2.7697	P	2.4
2	☐	500.000	468.543	54514.67	4.9717	P	1.6
3	☐	2500.000	2626.260	165898.74	15.1120	P	5.2
4	☐	6250.000	6438.993	374132.56	33.0302	P	2.5
5	☐	12500.000	13192.580	724594.52	64.7691	P	6.4
6	☐	25000.000	23880.304	1365615.66	114.9968	A	1.5
7	☐	50000.000	45032.390	2672996.87	214.4024	A	2.4
8	☐	250000.00	251064.93	13280914.01	1,182.6656	A	2.6

$$y = 0.0047 * x + 2.7697$$

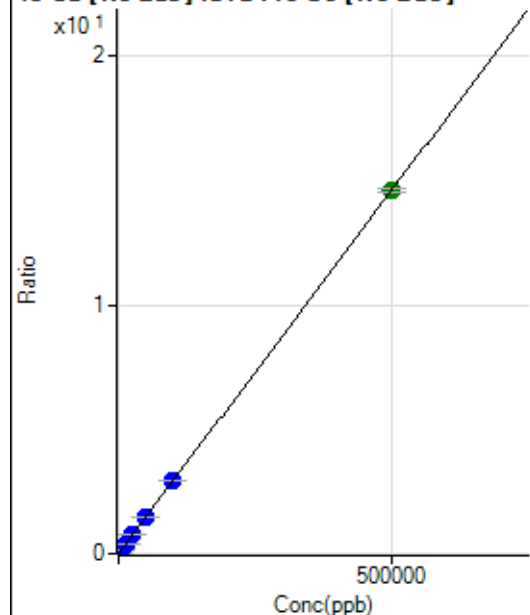
$$R = 0.9998$$

$$DL = 43.15$$

$$BEC = 589.4$$

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	257.47	0.0010	P	6.1
2	☐	500.000	483.400	3968.40	0.0151	P	2.5
3	☐	5000.000	5245.300	41163.41	0.1540	P	2.0
4	☐	12500.000	13055.531	104094.22	0.3819	P	0.3
5	☐	25000.000	25827.657	205907.83	0.7545	P	0.5
6	☐	50000.000	50536.490	412873.28	1.4753	P	1.2
7	☐	100000.00	101252.69	817332.36	2.9549	P	0.5
8	☐	500000.00	499638.10	3980596.57	14.5772	A	1.2

$$y = 2.9174\text{E-}005 * x + 9.7858\text{E-}004$$

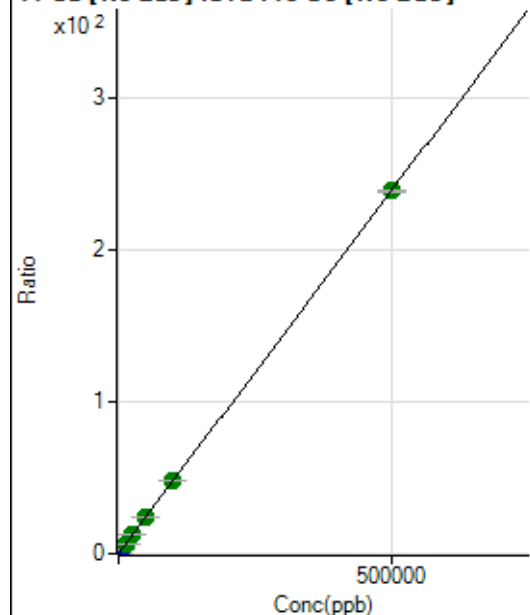
$$R = 1.0000$$

$$DL = 6.16$$

$$BEC = 33.54$$

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	30163.25	0.1147	P	2.7
2	☐	500.000	487.383	91301.44	0.3470	P	1.4
3	☐	5000.000	5321.060	708496.30	2.6506	P	1.2
4	☐	12500.000	13074.017	1729762.66	6.3454	A	0.4
5	☐	25000.000	25941.262	3405307.02	12.4775	A	1.0
6	☐	50000.000	50111.207	6715005.11	23.9960	A	1.7
7	☐	100000.00	100237.83	13244805.77	47.8847	A	1.4
8	☐	500000.00	499876.70	65082780.18	238.3390	A	0.7

$$y = 4.7657\text{E-}004 * x + 0.1147$$

$$R = 1.0000$$

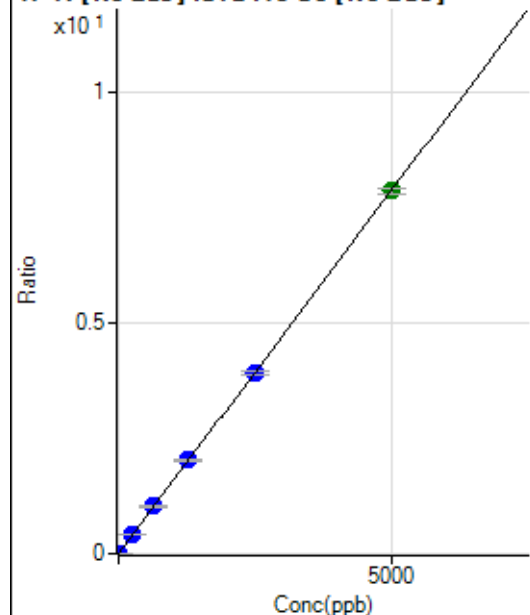
$$DL = 19.81$$

$$BEC = 240.8$$

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	347.24	0.0013	P	10.2
2	☐	5.000	4.547	2233.57	0.0085	P	8.4
3	☐	250.000	259.412	109655.05	0.4102	P	1.3
4	☐	625.000	649.648	279513.30	1.0254	P	0.8
5	☐	1250.000	1285.203	553267.10	2.0272	P	0.8
6	☐	2500.000	2487.626	1097725.59	3.9226	P	1.4
7	☐	5000.000	4993.835	2177774.74	7.8731	A	1.4
8	☐			597.25	0.0022	P	17.5

$$y = 0.0016 * x + 0.0013$$

$$R = 1.0000$$

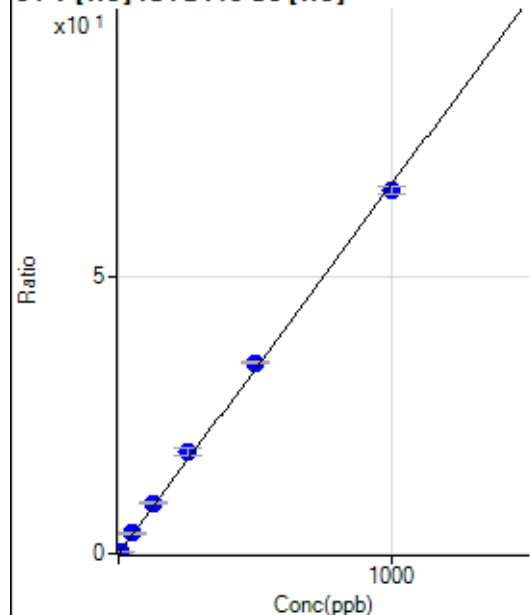
$$DL = 0.257$$

$$BEC = 0.8383$$

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	12.22	0.0011	P	104.7
2	☐	5.000	5.192	3808.32	0.3474	P	2.7
3	☐	50.000	55.666	40730.05	3.7133	P	7.7
4	☐	125.000	135.947	102682.64	9.0670	P	3.5
5	☐	250.000	276.109	205938.12	18.4139	P	7.2
6	☐	500.000	518.019	410256.62	34.5461	P	0.9
7	☐	1000.000	982.811	817136.04	65.5415	P	2.1
8	☐			176.67	0.0158	P	20.3

$$y = 0.0667 * x + 0.0011$$

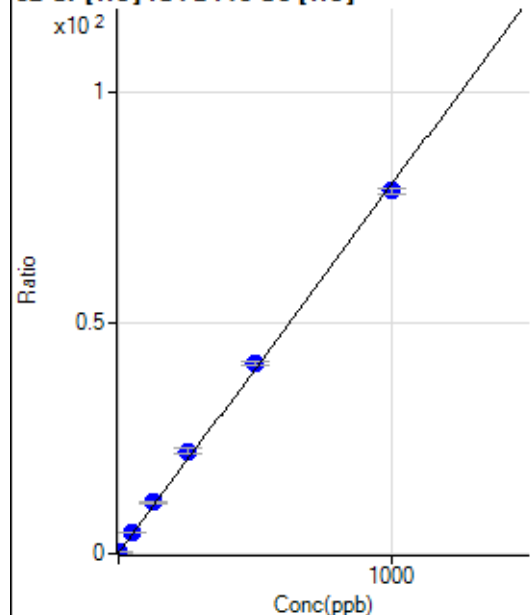
$$R = 0.9994$$

$$DL = 0.05323$$

$$BEC = 0.01695$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1112.28	0.1019	P	3.0
2	☐	2.000	2.077	2934.78	0.2676	P	3.5
3	☐	50.000	56.000	50154.25	4.5682	P	5.0
4	☐	125.000	138.168	125961.11	11.1215	P	2.9
5	☐	250.000	277.758	248981.53	22.2545	P	6.3
6	☐	500.000	516.403	490309.17	41.2877	P	1.5
7	☐	1000.000	982.913	978690.02	78.4941	P	1.6
8	☐			2224.64	0.1980	P	2.8

$$y = 0.0798 * x + 0.1019$$

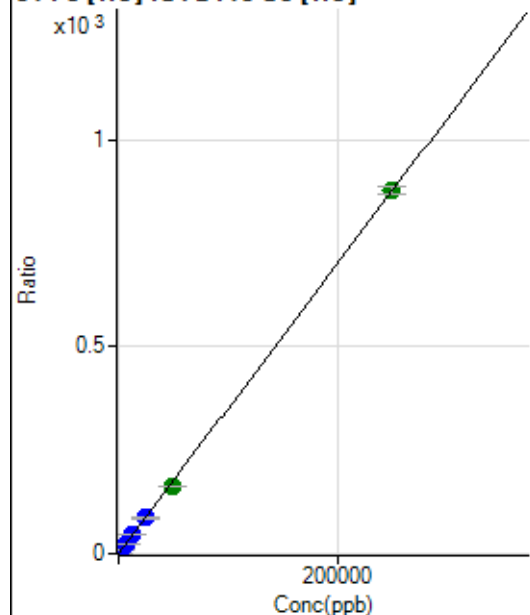
$$R = 0.9993$$

$$DL = 0.1159$$

$$BEC = 1.277$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	422.24	0.0387	P	6.9
2	☐	50.000	51.243	2389.13	0.2179	P	4.0
3	☐	2500.000	2675.342	103118.01	9.3969	P	6.4
4	☐	6250.000	6538.106	259446.53	22.9086	P	3.2
5	☐	12500.000	13369.054	523624.67	46.8028	P	6.3
6	☐	25000.000	24578.173	1021416.91	86.0115	P	1.5
7	☐	50000.000	46982.789	2049861.26	164.3813	A	0.7
8	☐	250000.00	250593.21	9843637.72	876.5969	A	2.2

$$y = 0.0035 * x + 0.0387$$

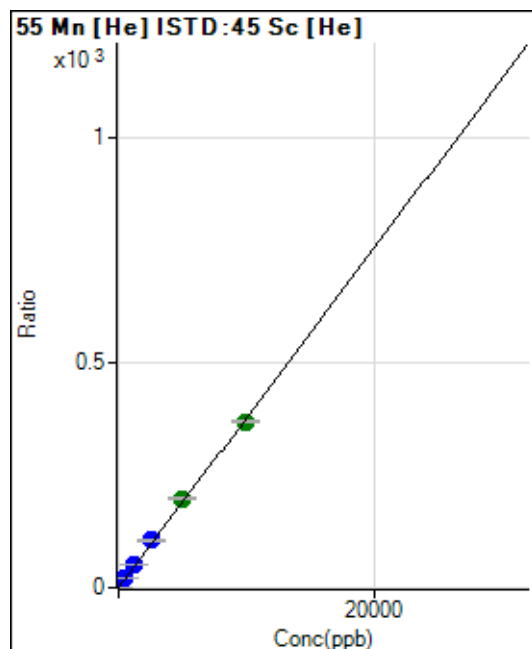
$$R = 0.9999$$

$$DL = 2.306$$

$$BEC = 11.06$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	116.67	0.0107	P	12.2
2	☐	1.000	0.960	514.46	0.0469	P	9.0
3	☐	500.000	564.427	234003.36	21.3186	P	5.6
4	☐	1250.000	1370.634	586097.38	51.7541	P	3.5
5	☐	2500.000	2793.555	1180074.16	105.4714	P	6.2
6	☐	5000.000	5250.852	2354125.61	198.2379	A	1.8
7	☐	10000.000	9782.885	4604868.82	369.3286	A	1.7
8	☐			3141.49	0.2801	P	9.2

$$y = 0.0378 * x + 0.0107$$

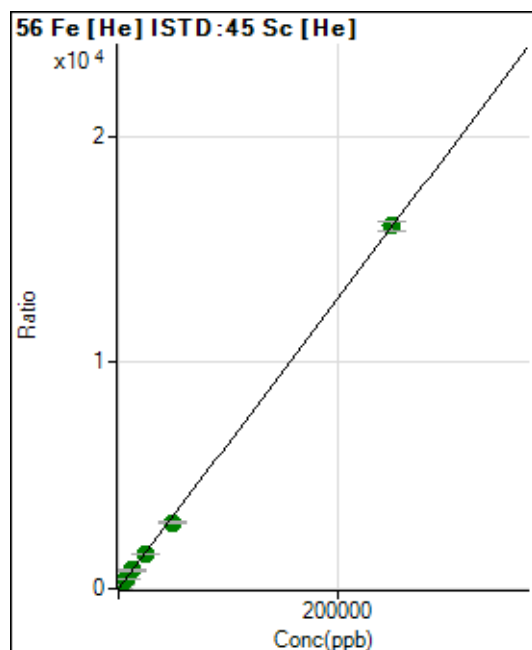
$$R = 0.9990$$

$$DL = 0.1038$$

$$BEC = 0.283$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3102.25	0.2842	P	4.0
2	☐	50.000	49.656	37915.30	3.4584	P	3.6
3	☐	2500.000	2647.809	1860623.57	169.5410	A	6.2
4	☐	6250.000	6433.596	4660284.13	411.5411	A	3.8
5	☐	12500.000	12993.661	9294863.29	830.8823	A	6.6
6	☐	25000.000	24192.960	18368472.86	1,546.7787	A	1.4
7	☐	50000.000	45807.036	36514524.89	2,928.4224	A	1.2
8	☐	250000.00	250888.54	180085978.1	16,037.914	A	2.4

$$y = 0.0639 * x + 0.2842$$

$$R = 0.9998$$

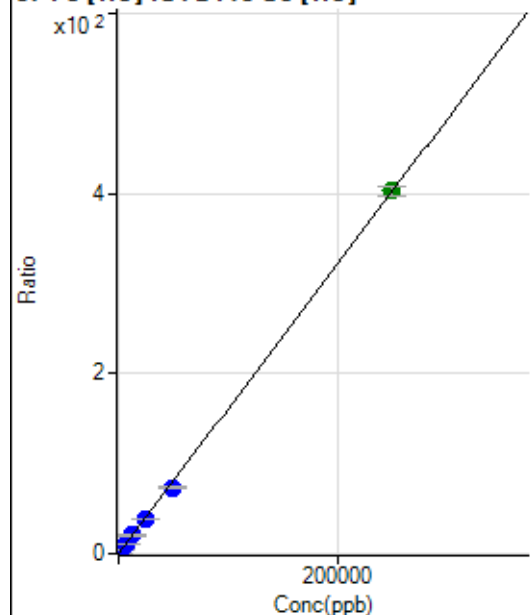
$$DL = 0.5288$$

$$BEC = 4.446$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	144.45	0.0132	P	18.5
2	☐	50.000	49.883	1022.28	0.0933	P	12.9
3	☐	2500.000	2618.068	46228.65	4.2131	P	6.6
4	☐	6250.000	6388.590	116196.98	10.2616	P	4.1
5	☐	12500.000	12947.175	232557.32	20.7828	P	6.0
6	☐	25000.000	24231.947	461775.92	38.8855	P	1.5
7	☐	50000.000	45558.218	911345.37	73.0965	P	2.0
8	☐	250000.00	250938.15	4520199.15	402.5614	A	2.5

$$y = 0.0016 * x + 0.0132$$

$$R = 0.9998$$

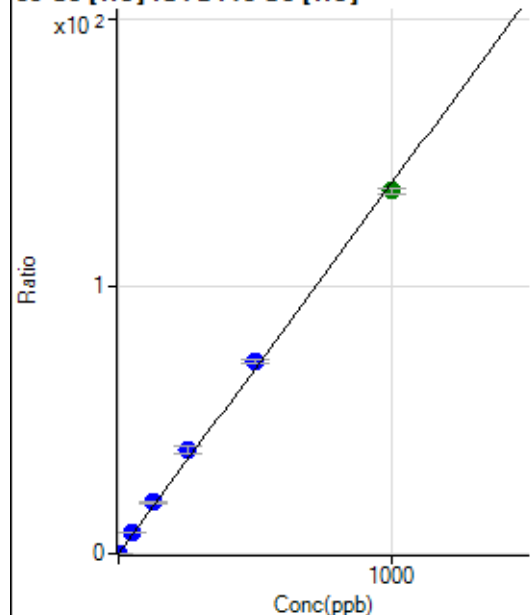
$$DL = 4.574$$

$$BEC = 8.257$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.11	0.0038	P	32.1
2	☐	1.000	1.102	1717.90	0.1567	P	1.1
3	☐	50.000	56.448	85983.10	7.8351	P	6.3
4	☐	125.000	138.003	216855.55	19.1495	P	3.7
5	☐	250.000	280.968	436129.73	38.9837	P	6.4
6	☐	500.000	521.040	858453.21	72.2898	P	1.7
7	☐	1000.000	979.790	1694813.07	135.9342	A	1.8
8	☐			2809.19	0.2502	P	2.4

$$y = 0.1387 * x + 0.0038$$

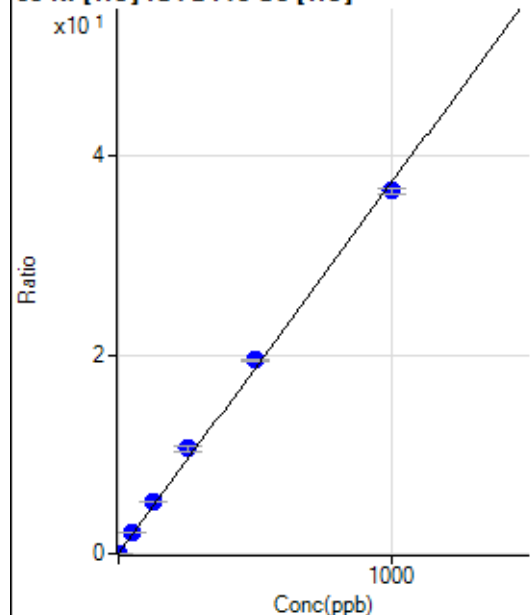
$$R = 0.9991$$

$$DL = 0.02613$$

$$BEC = 0.02711$$

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	208.89	0.0192	P	25.0
2	☐	1.000	1.204	703.36	0.0641	P	3.8
3	☐	50.000	57.493	23768.86	2.1652	P	5.3
4	☐	125.000	139.707	59288.58	5.2339	P	2.1
5	☐	250.000	283.330	118551.49	10.5947	P	5.9
6	☐	500.000	522.873	231998.27	19.5359	P	1.2
7	☐	1000.000	978.018	455402.28	36.5246	P	1.6
8	☐			813.36	0.0724	P	4.5

$$y = 0.0373 * x + 0.0192$$

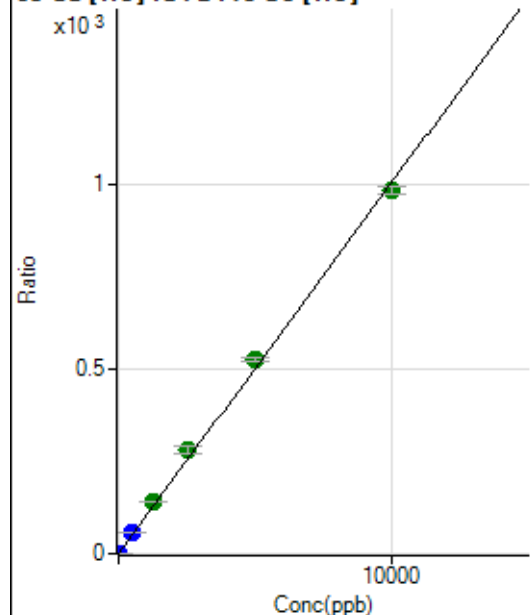
$$R = 0.9989$$

$$DL = 0.3853$$

$$BEC = 0.5139$$

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	415.57	0.0381	P	7.7
2	☐	2.000	2.132	2763.63	0.2520	P	2.3
3	☐	500.000	572.059	630299.15	57.4321	P	6.1
4	☐	1250.000	1408.186	1601117.61	141.3199	A	1.2
5	☐	2500.000	2819.381	3163799.64	282.9035	A	7.2
6	☐	5000.000	5225.363	6225978.17	524.2930	A	2.3
7	☐	10000.000	9784.097	12239042.46	981.6658	A	2.0
8	☐			5345.49	0.4760	P	2.5

$$y = 0.1003 * x + 0.0381$$

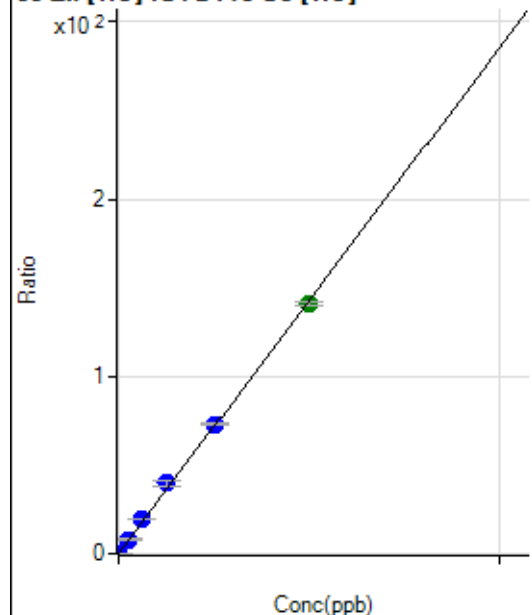
$$R = 0.9990$$

$$DL = 0.08721$$

$$BEC = 0.3795$$

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	198.89	0.0182	P	8.5
2	☐	2.000	2.538	596.69	0.0545	P	11.7
3	☐	500.000	563.530	88554.35	8.0670	P	5.4
4	☐	1250.000	1358.750	220008.35	19.4249	P	2.9
5	☐	2500.000	2769.404	442718.95	39.5729	P	6.4
6	☐	5000.000	5116.706	868100.93	73.0989	P	1.0
7	☐	10000.000	9857.526	1755660.37	140.8108	A	1.8
8	☐			3298.20	0.2937	P	1.6

$$y = 0.0143 * x + 0.0182$$

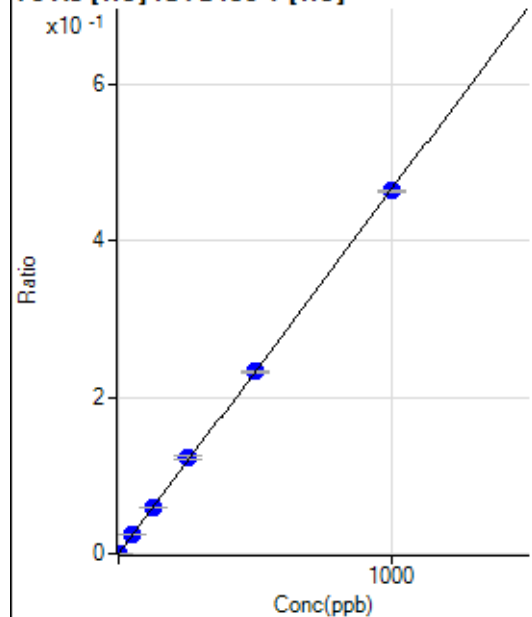
$$R = 0.9995$$

$$DL = 0.327$$

$$BEC = 1.276$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.67	0.0000	P	14.5
2	☐	1.000	0.858	120.01	0.0004	P	5.9
3	☐	50.000	52.303	6416.11	0.0244	P	2.9
4	☐	125.000	127.217	16120.47	0.0593	P	1.1
5	☐	250.000	263.219	32462.73	0.1227	P	3.4
6	☐	500.000	500.415	64540.33	0.2332	P	1.2
7	☐	1000.000	996.095	128239.34	0.4642	P	0.9
8	☐			57.01	0.0002	P	13.5

$$y = 4.6594E-004 * x + 4.7820E-005$$

$$R = 0.9999$$

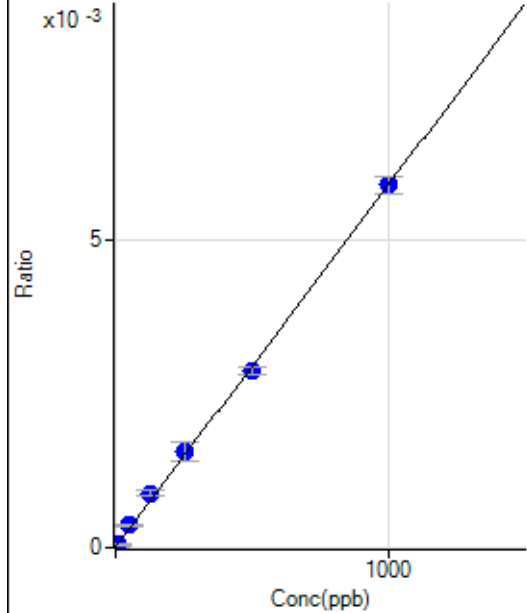
$$DL = 0.04473$$

$$BEC = 0.1026$$

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	173.2
2	☐	5.000	8.396	15.56	0.0001	P	62.2
3	☐	50.000	60.104	95.56	0.0004	P	7.0
4	☐	125.000	149.704	242.23	0.0009	P	13.6
5	☐	250.000	263.657	412.23	0.0016	P	19.1
6	☐	500.000	486.555	796.70	0.0029	P	3.7
7	☐	1000.000	999.698	1632.33	0.0059	P	4.5
8	☐			1.11	0.0000	P	173.2

$$y = 5.9005\text{E-}006 * x + 8.5637\text{E-}006$$

$$R = 0.9995$$

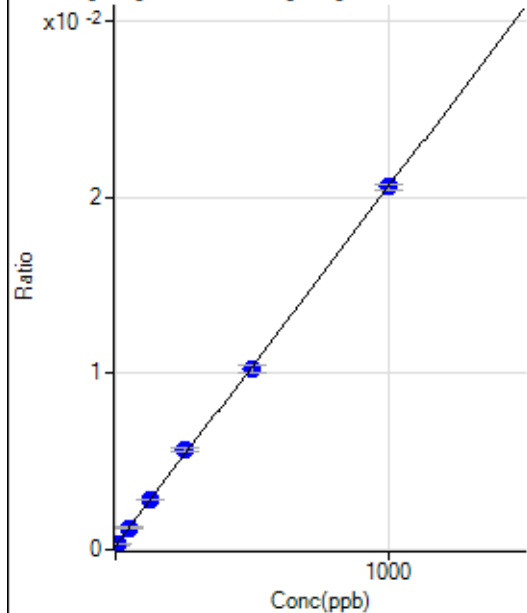
$$DL = 7.541$$

$$BEC = 1.451$$

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	58.34	0.0002	P	16.4
2	☐	5.000	3.504	78.34	0.0003	P	6.8
3	☐	50.000	49.967	325.71	0.0012	P	6.8
4	☐	125.000	127.711	768.10	0.0028	P	2.2
5	☐	250.000	267.017	1499.57	0.0057	P	4.3
6	☐	500.000	492.034	2838.91	0.0103	P	3.6
7	☐	1000.000	999.399	5694.39	0.0206	P	1.4
8	☐			53.68	0.0002	P	19.4

$$y = 2.0403\text{E-}005 * x + 2.2079\text{E-}004$$

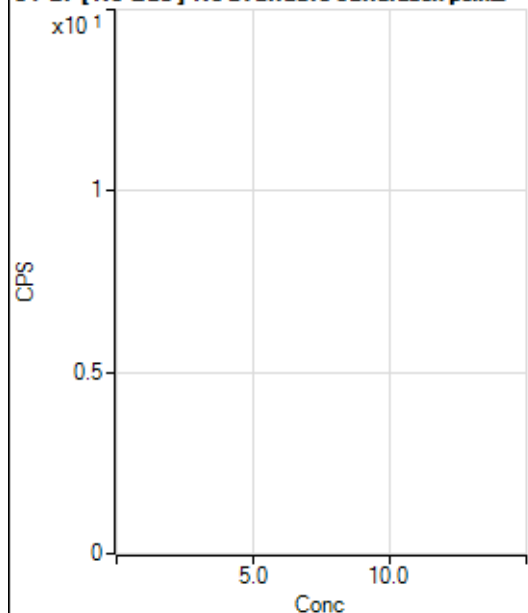
$$R = 0.9998$$

$$DL = 5.322$$

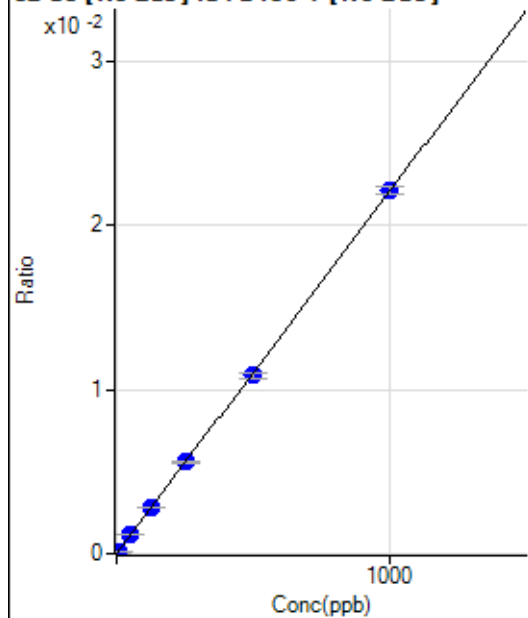
$$BEC = 10.82$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2696.37		P	3.3
2	☐			2539.52		P	5.5
3	☐			2609.61		P	4.7
4	☐			2806.51		P	8.0
5	☐			2813.20		P	8.1
6	☐			2869.92		P	6.5
7	☐			2766.48		P	11.8
8	☐			3250.41		P	5.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-63.38	0.0000	P	-138.
2	☐	5.000	6.091	246.59	0.0001	P	14.8
3	☐	50.000	52.779	2644.23	0.0011	P	1.8
4	☐	125.000	127.097	6760.88	0.0028	P	1.4
5	☐	250.000	252.651	13221.84	0.0056	P	1.4
6	☐	500.000	493.525	26582.02	0.0109	P	3.3
7	☐	1000.000	1002.168	52798.69	0.0221	P	1.9
8	☐			61.19	0.0000	P	89.0

$$y = 2.2122\text{E-}005 * x - 2.7530\text{E-}005$$

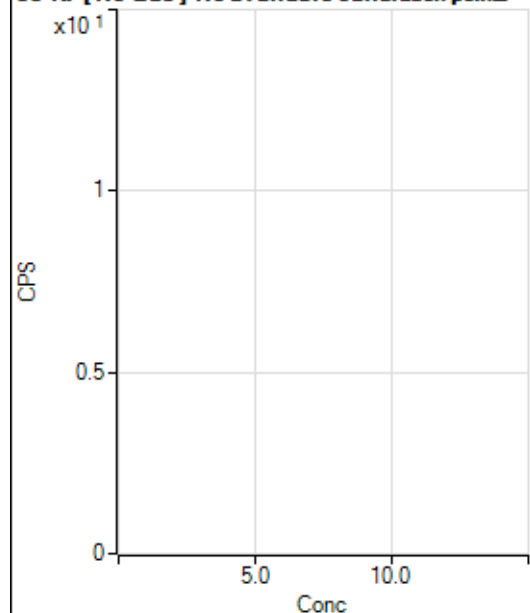
$$R = 1.0000$$

$$DL = 5.175$$

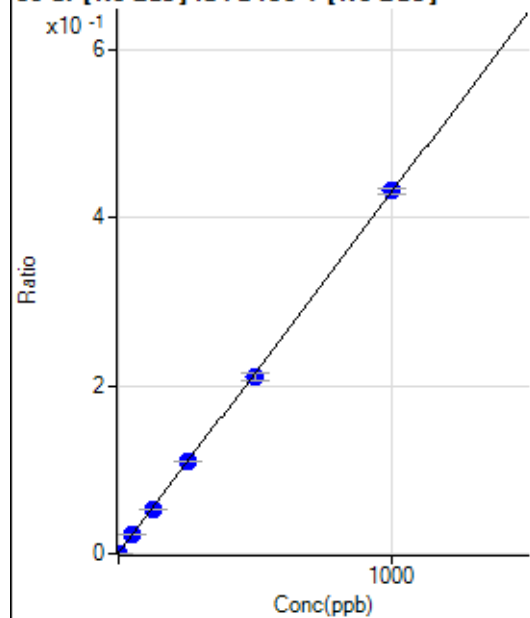
$$BEC = -1.244$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			677.80		P	7.6
2	☐			615.58		P	5.8
3	☐			624.47		P	4.3
4	☐			648.91		P	3.5
5	☐			638.91		P	4.0
6	☐			584.46		P	7.6
7	☐			643.36		P	11.9
8	☐			576.69		P	5.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	944.51	0.0004	P	5.8
2	☐	1.000	1.044	1972.41	0.0009	P	7.1
3	☐	50.000	51.409	52206.29	0.0225	P	0.9
4	☐	125.000	123.564	129992.46	0.0535	P	0.5
5	☐	250.000	253.670	260242.15	0.1095	P	0.5
6	☐	500.000	489.941	515080.60	0.2110	P	3.6
7	☐	1000.000	1004.221	1030519.24	0.4321	P	1.3
8	☐			6668.46	0.0028	P	6.8

$$y = 4.2991\text{E-}004 * x + 4.0851\text{E-}004$$

$$R = 0.9999$$

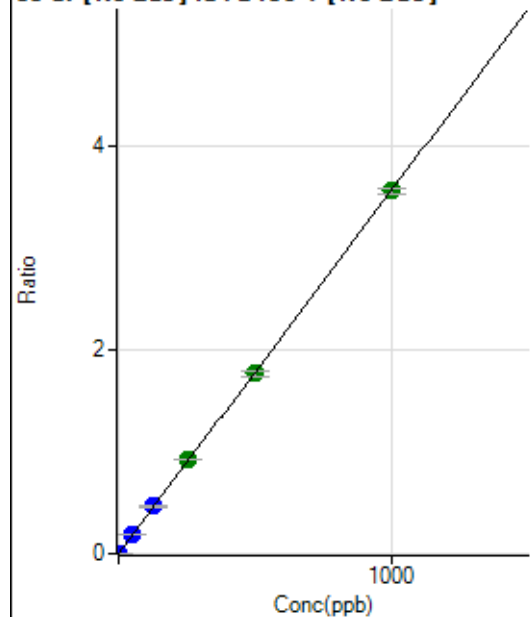
$$DL = 0.1649$$

$$BEC = 0.9502$$

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	94.45	0.0000	P	44.1
2	☐	1.000	0.947	7860.78	0.0034	P	4.4
3	☐	50.000	52.921	437642.36	0.1887	P	1.1
4	☐	125.000	130.091	1126346.64	0.4638	P	0.7
5	☐	250.000	259.029	2195379.56	0.9235	A	1.4
6	☐	500.000	496.721	4322420.93	1.7709	A	3.4
7	☐	1000.000	998.600	8489208.52	3.5602	A	1.7
8	☐			47372.74	0.0198	P	1.1

$$y = 0.0036 * x + 4.0710E-005$$

$$R = 0.9999$$

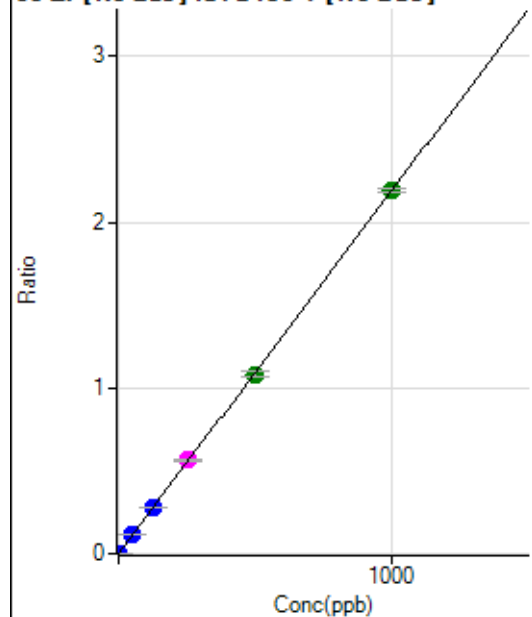
$$DL = 0.01511$$

$$BEC = 0.01142$$

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	52.78	0.0000	P	40.5
2	☐	1.000	0.967	4917.67	0.0021	P	6.9
3	☐	50.000	52.308	265401.12	0.1144	P	0.6
4	☐	125.000	128.690	683584.90	0.2815	P	0.9
5	☐	250.000	257.657	1339871.85	0.5636	M	0.8
6	☐	500.000	494.626	2641080.07	1.0819	A	2.9
7	☐	1000.000	1000.196	5216866.13	2.1877	A	1.1
8	☐			1272.32	0.0005	P	5.2

$$y = 0.0022 * x + 2.2876E-005$$

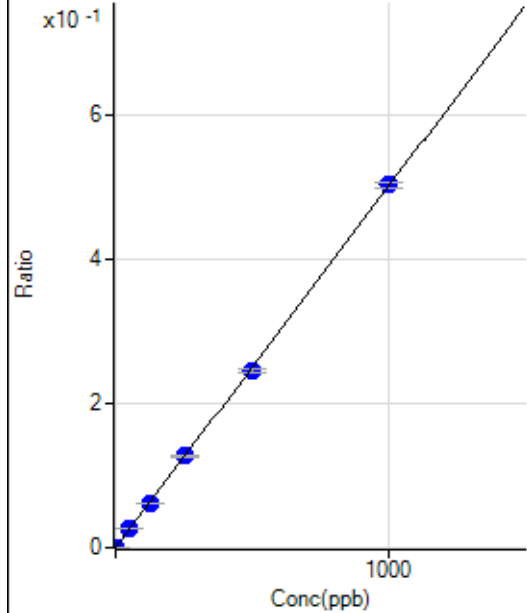
$$R = 0.9999$$

$$DL = 0.01271$$

$$BEC = 0.01046$$

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	16.67	0.0000	P	49.1
2	☐	1.000	1.065	1241.76	0.0005	P	4.1
3	☐	50.000	51.327	59544.65	0.0257	P	2.4
4	☐	125.000	124.086	150706.24	0.0621	P	1.3
5	☐	250.000	253.194	301049.28	0.1266	P	0.6
6	☐	500.000	490.318	598613.66	0.2452	P	2.7
7	☐	1000.000	1004.090	1197432.83	0.5022	P	1.3
8	☐			358.35	0.0002	P	19.6

$$y = 5.0011\text{E-}004 * x + 7.1839\text{E-}006$$

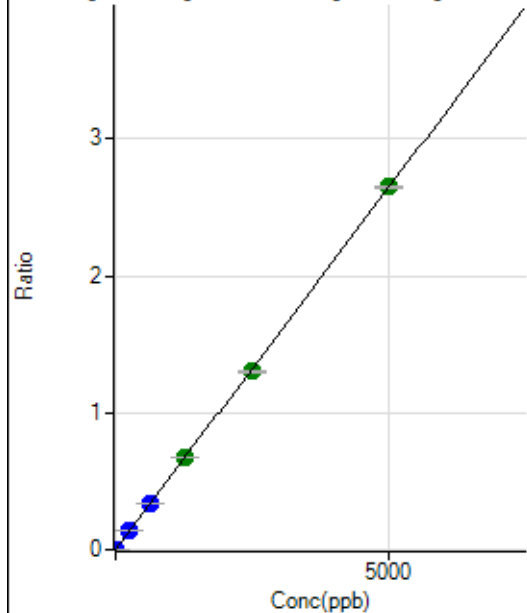
$$R = 0.9999$$

$$DL = 0.02114$$

$$BEC = 0.01436$$

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	100.00	0.0000	P	28.9
2	☐	5.000	4.940	6107.05	0.0027	P	0.7
3	☐	250.000	259.229	317922.42	0.1371	P	1.0
4	☐	625.000	629.638	808452.54	0.3329	P	0.5
5	☐	1250.000	1276.593	1604445.93	0.6749	A	1.4
6	☐	2500.000	2461.150	3176977.72	1.3011	A	1.8
7	☐	5000.000	5011.735	6318350.36	2.6495	A	0.7
8	☐			2197.46	0.0009	P	11.5

$$y = 5.2866\text{E-}004 * x + 4.3149\text{E-}005$$

$$R = 0.9999$$

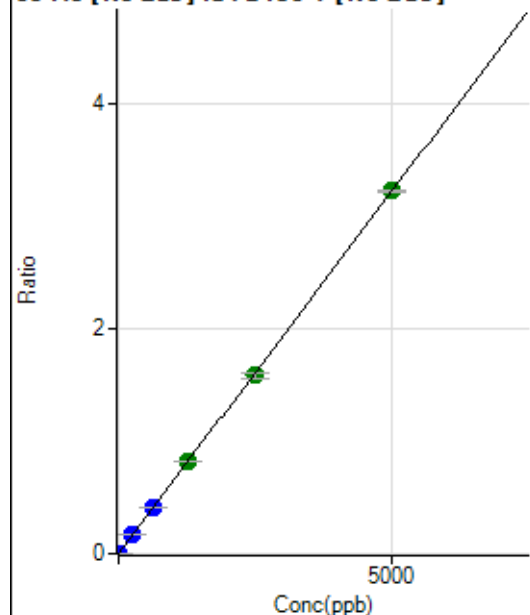
$$DL = 0.07074$$

$$BEC = 0.08162$$

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	36.11	0.0000	P	74.7
2	☐	5.000	4.988	7418.85	0.0032	P	3.1
3	☐	250.000	259.593	387420.57	0.1670	P	0.6
4	☐	625.000	630.517	985227.58	0.4057	P	0.7
5	☐	1250.000	1274.847	1950111.96	0.8203	A	0.9
6	☐	2500.000	2463.553	3869085.55	1.5852	A	3.5
7	☐	5000.000	5010.843	7688790.88	3.2242	A	0.6
8	☐			3061.52	0.0013	P	3.4

$$y = 6.4345E-004 * x + 1.5642E-005$$

$$R = 0.9999$$

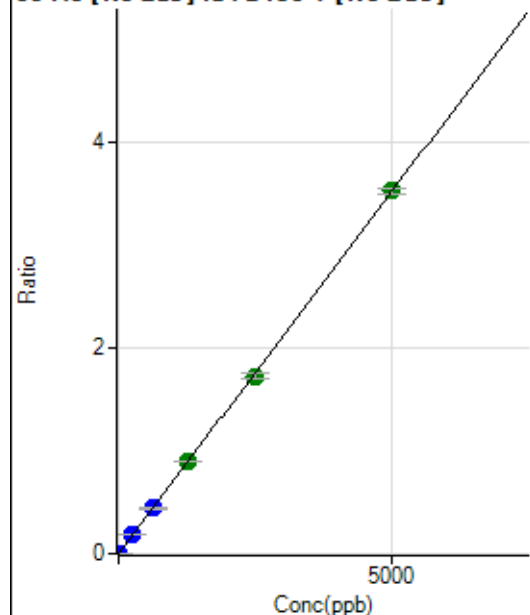
$$DL = 0.05451$$

$$BEC = 0.02431$$

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	52.78	0.0000	P	64.5
2	☐	5.000	4.859	7924.70	0.0034	P	4.3
3	☐	250.000	259.346	423601.20	0.1827	P	0.5
4	☐	625.000	625.166	1069030.77	0.4403	P	1.6
5	☐	1250.000	1277.960	2139421.86	0.8999	A	0.9
6	☐	2500.000	2452.753	4215617.89	1.7272	A	3.6
7	☐	5000.000	5016.146	8422831.70	3.5323	A	1.6
8	☐			3767.29	0.0016	P	10.8

$$y = 7.0418E-004 * x + 2.2878E-005$$

$$R = 0.9999$$

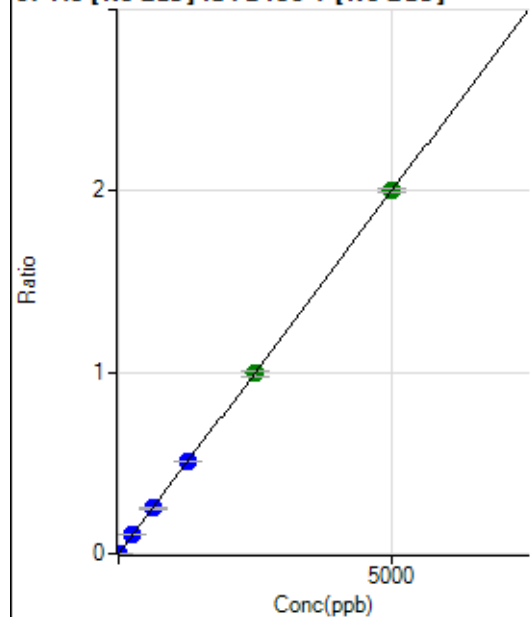
$$DL = 0.06285$$

$$BEC = 0.03249$$

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	22.22	0.0000	P	78.6
2	☐	5.000	4.781	4420.25	0.0019	P	4.9
3	☐	250.000	259.600	240816.59	0.1038	P	1.0
4	☐	625.000	626.928	608898.34	0.2508	P	1.4
5	☐	1250.000	1274.595	1211962.20	0.5098	P	0.5
6	☐	2500.000	2480.421	2422116.70	0.9921	A	2.2
7	☐	5000.000	5002.920	4771630.23	2.0010	A	1.1
8	☐			1844.62	0.0008	P	6.3

$$y = 3.9996\text{E-}004 * x + 9.6495\text{E-}006$$

$$R = 1.0000$$

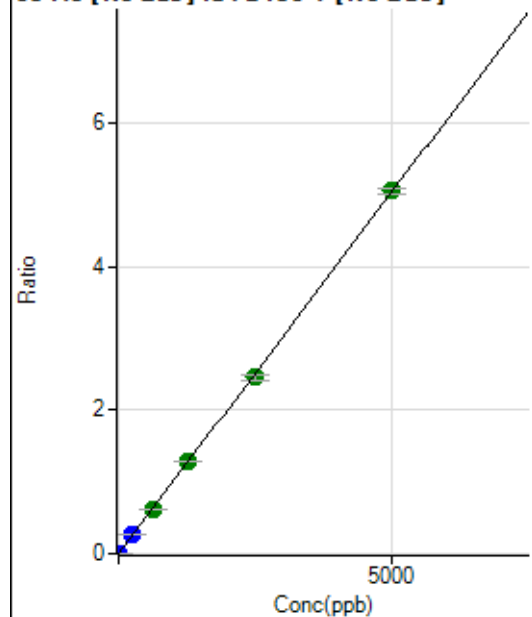
$$DL = 0.05688$$

$$BEC = 0.02413$$

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	36.11	0.0000	P	57.0
2	☐	5.000	4.768	11079.72	0.0048	P	0.5
3	☐	250.000	262.407	612825.93	0.2642	P	0.5
4	☐	625.000	620.960	1518369.29	0.6253	A	1.0
5	☐	1250.000	1273.093	3047749.44	1.2819	A	0.3
6	☐	2500.000	2443.089	6004766.28	2.4600	A	3.2
7	☐	5000.000	5022.567	12059216.68	5.0574	A	1.9
8	☐			4639.79	0.0019	P	10.1

$$y = 0.0010 * x + 1.5551\text{E-}005$$

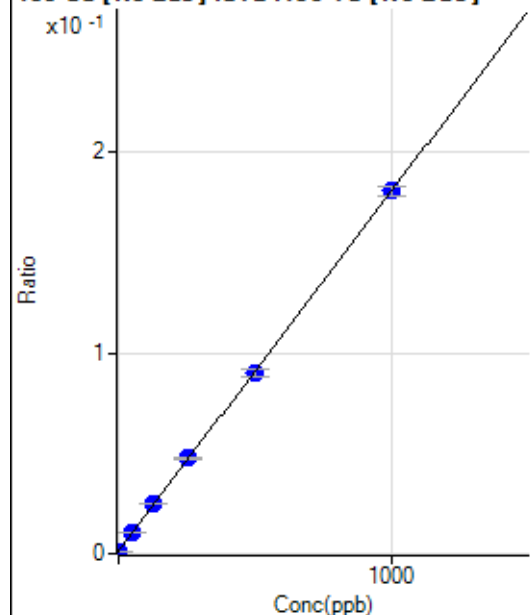
$$R = 0.9999$$

$$DL = 0.02642$$

$$BEC = 0.01544$$

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	508.36	0.0012	P	5.1
2	☐	1.000	0.433	538.92	0.0013	P	11.4
3	☐	50.000	50.860	4400.81	0.0103	P	2.6
4	☐	125.000	130.366	10773.90	0.0246	P	1.3
5	☐	250.000	257.802	20763.37	0.0475	P	2.4
6	☐	500.000	494.924	40025.34	0.0900	P	3.8
7	☐	1000.000	999.874	79316.98	0.1807	P	2.4
8	☐			558.36	0.0013	P	15.7

$$y = 1.7949\text{E-}004 * x + 0.0012$$

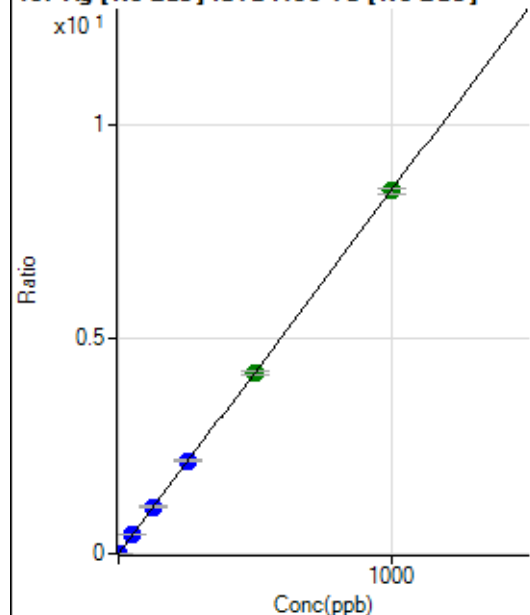
$$R = 0.9999$$

$$DL = 1.034$$

$$BEC = 6.722$$

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	36.11	0.0001	P	27.5
2	☐	1.000	0.982	3525.55	0.0084	P	6.3
3	☐	50.000	52.203	188214.19	0.4420	P	1.6
4	☐	125.000	129.365	479569.22	1.0952	P	0.8
5	☐	250.000	256.570	949882.33	2.1721	P	1.2
6	☐	500.000	499.117	1878809.83	4.2254	A	2.3
7	☐	1000.000	998.143	3709923.17	8.4499	A	1.7
8	☐			1969.65	0.0045	P	8.4

$$y = 0.0085 * x + 8.5855\text{E-}005$$

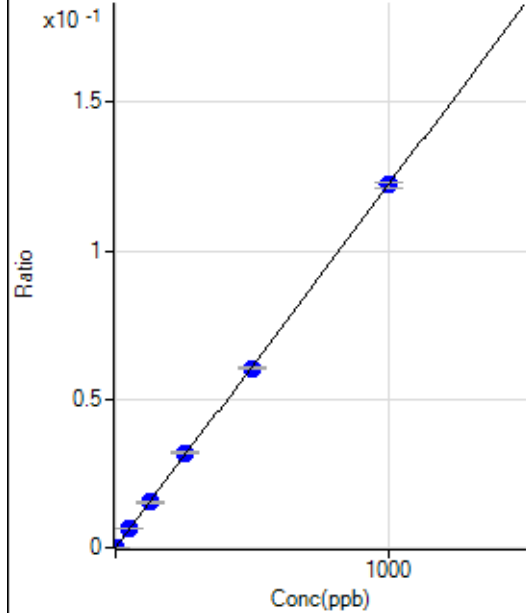
$$R = 1.0000$$

$$DL = 0.008374$$

$$BEC = 0.01014$$

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	2.78	0.0000	P	173.2
2	☐	1.000	1.246	66.67	0.0002	P	6.3
3	☐	50.000	51.952	2705.86	0.0064	P	1.0
4	☐	125.000	125.605	6721.16	0.0154	P	4.7
5	☐	250.000	261.451	13972.49	0.0320	P	2.1
6	☐	500.000	494.393	26869.32	0.0604	P	0.9
7	☐	1000.000	999.767	53632.91	0.1222	P	1.8
8	☐			55.55	0.0001	P	7.4

$$y = 1.2218\text{E-}004 * x + 6.5056\text{E-}006$$

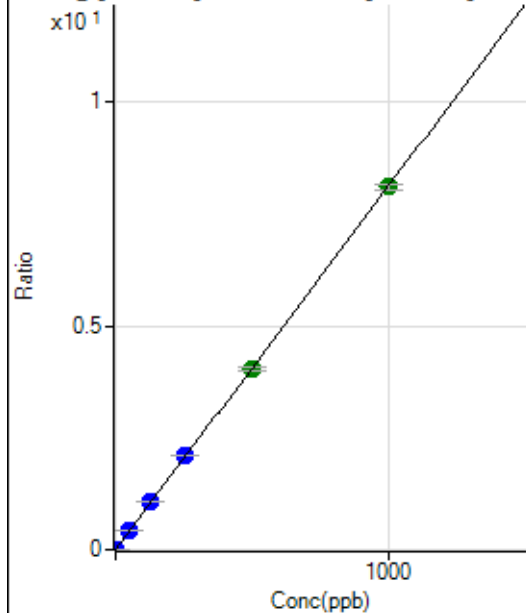
$$R = 0.9999$$

$$DL = 0.2767$$

$$BEC = 0.05324$$

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	30.56	0.0001	P	42.5
2	☐	1.000	0.989	3403.29	0.0081	P	3.0
3	☐	50.000	52.180	180502.81	0.4239	P	1.5
4	☐	125.000	130.576	464426.08	1.0607	P	1.1
5	☐	250.000	258.325	917576.14	2.0983	P	0.8
6	☐	500.000	498.929	1801961.28	4.0526	A	2.3
7	☐	1000.000	997.648	3557845.00	8.1034	A	1.3
8	☐			1827.95	0.0041	P	2.2

$$y = 0.0081 * x + 7.2735\text{E-}005$$

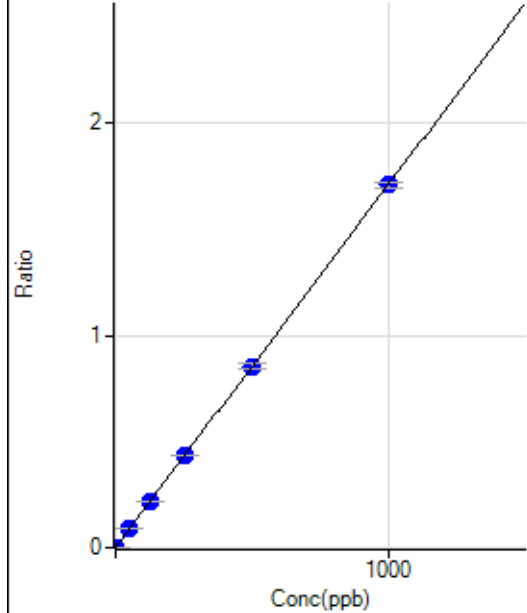
$$R = 1.0000$$

$$DL = 0.01142$$

$$BEC = 0.008955$$

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	365.02	0.0009	P	7.1
2	☐	1.000	0.951	1045.88	0.0025	P	7.3
3	☐	50.000	51.630	37934.14	0.0891	P	0.6
4	☐	125.000	127.263	95592.50	0.2183	P	1.0
5	☐	250.000	254.765	190735.86	0.4362	P	0.8
6	☐	500.000	498.999	379476.18	0.8535	P	2.8
7	☐	1000.000	998.945	749760.48	1.7077	P	1.5
8	☐			620.03	0.0014	P	9.8

$$y = 0.0017 * x + 8.6645E-004$$

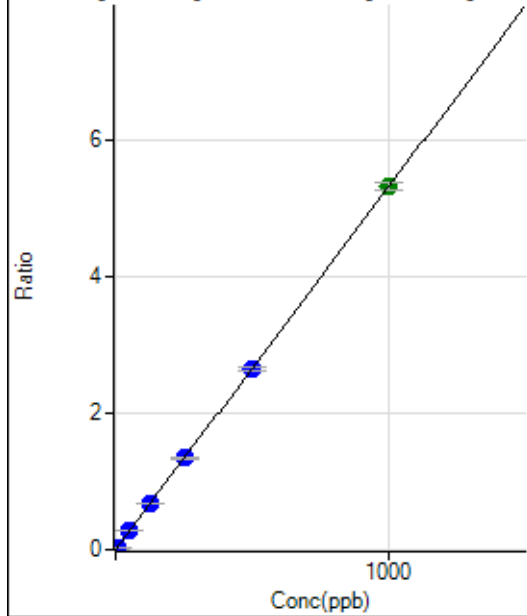
$$R = 1.0000$$

$$DL = 0.1073$$

$$BEC = 0.5071$$

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	172.23	0.0004	P	8.3
2	☐	5.000	4.849	11015.83	0.0262	P	0.3
3	☐	50.000	51.585	117115.25	0.2750	P	1.9
4	☐	125.000	127.613	297673.67	0.6798	P	0.9
5	☐	250.000	253.361	590036.52	1.3493	P	1.4
6	☐	500.000	497.055	1176801.91	2.6467	P	2.6
7	☐	1000.000	1000.227	2338152.25	5.3256	A	2.1
8	☐			727.82	0.0017	P	7.4

$$y = 0.0053 * x + 4.0884E-004$$

$$R = 1.0000$$

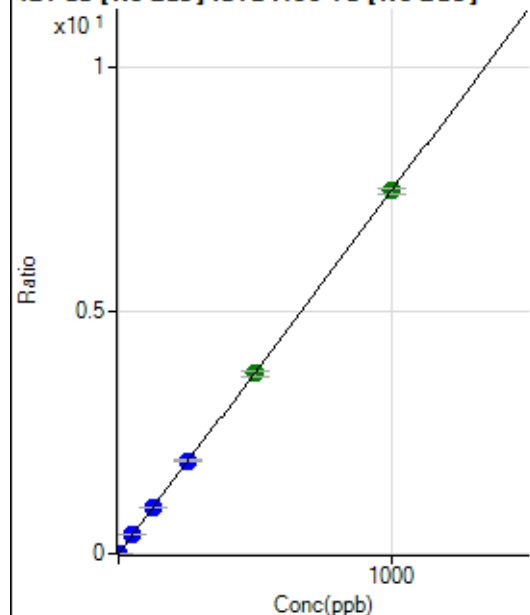
$$DL = 0.01908$$

$$BEC = 0.07679$$

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	47.22	0.0001	P	40.2
2	☐	2.000	1.890	5970.91	0.0142	P	3.6
3	☐	50.000	51.939	165091.54	0.3877	P	1.2
4	☐	125.000	127.936	418058.24	0.9548	P	2.3
5	☐	250.000	256.918	838479.17	1.9174	P	0.7
6	☐	500.000	495.952	1645702.73	3.7012	A	2.4
7	☐	1000.000	999.831	3275782.34	7.4614	A	1.9
8	☐			2330.81	0.0053	P	12.3

$$y = 0.0075 * x + 1.1179E-004$$

$$R = 1.0000$$

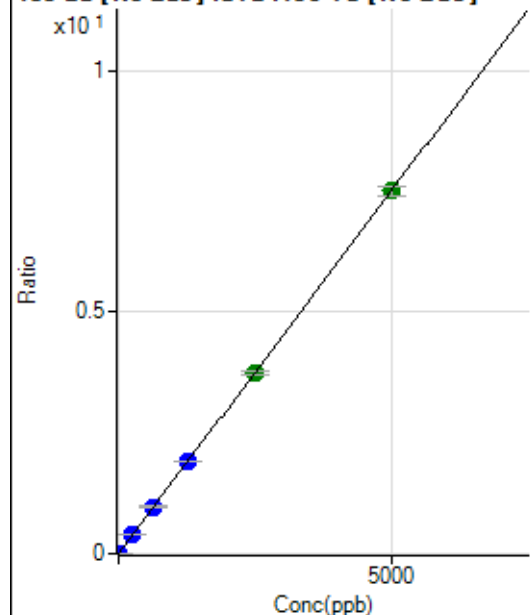
$$DL = 0.01807$$

$$BEC = 0.01498$$

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	8.33	0.0000	P	100.5
2	☐	10.000	9.776	6176.55	0.0147	P	1.9
3	☐	250.000	257.819	164954.39	0.3874	P	2.2
4	☐	625.000	643.437	423273.22	0.9667	P	2.0
5	☐	1250.000	1274.852	837591.95	1.9154	P	0.3
6	☐	2500.000	2485.690	1660455.72	3.7345	A	2.8
7	☐	5000.000	4998.247	3296672.32	7.5094	A	2.9
8	☐			5698.59	0.0129	P	3.5

$$y = 0.0015 * x + 1.9727E-005$$

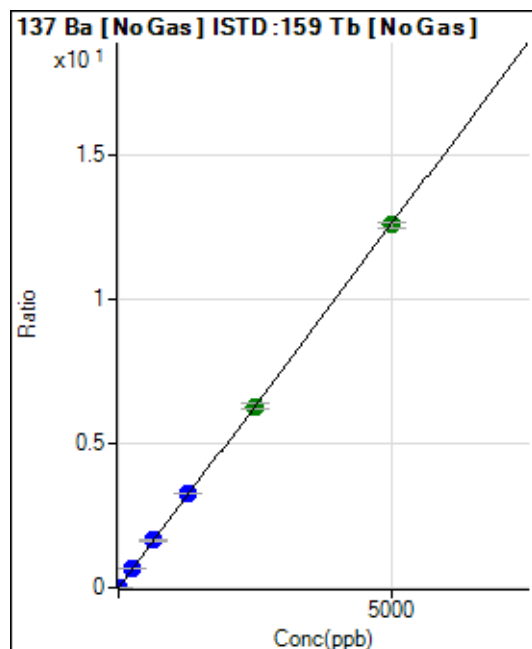
$$R = 1.0000$$

$$DL = 0.0396$$

$$BEC = 0.01313$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.1
2	☐	10.000	10.025	10615.55	0.0253	P	5.3
3	☐	250.000	263.214	282318.17	0.6630	P	1.2
4	☐	625.000	651.969	719018.91	1.6421	P	1.5
5	☐	1250.000	1300.469	1432377.54	3.2755	P	0.8
6	☐	2500.000	2495.560	2794784.20	6.2855	A	2.4
7	☐	5000.000	4985.571	5512945.83	12.5570	A	1.8
8	☐			10070.68	0.0228	P	0.6

$$y = 0.0025 * x + 3.2894E-005$$

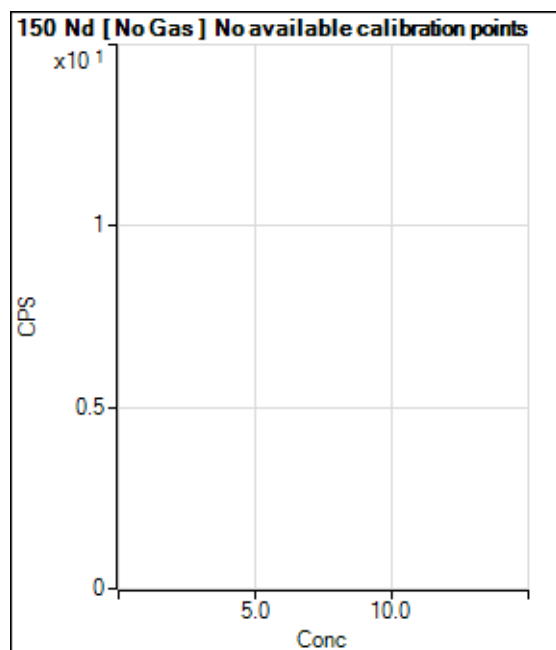
$$R = 0.9999$$

$$DL = 0.01335$$

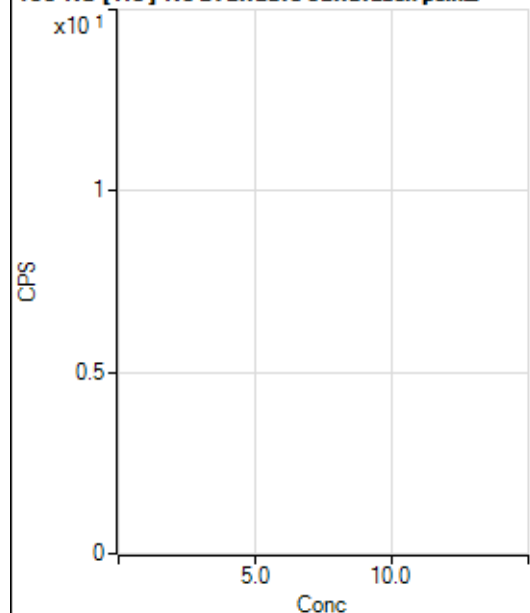
$$BEC = 0.01306$$

Weight: <None>

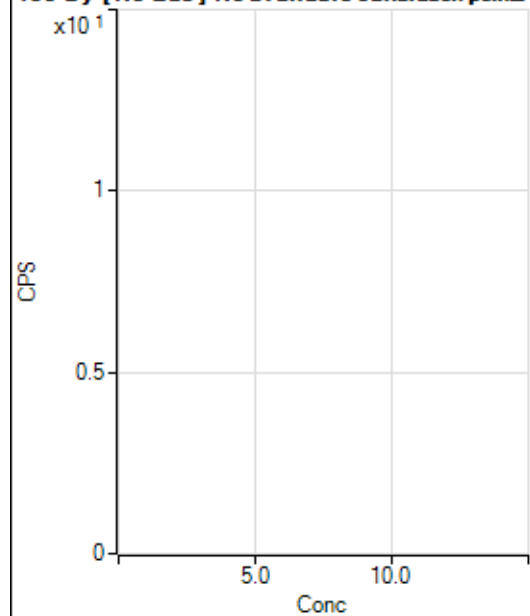
Min Conc: 0



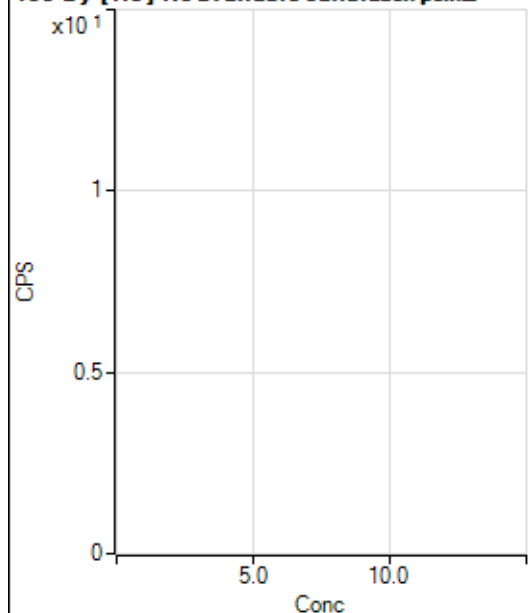
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	173.2
2	☐			6.67		P	100.0
3	☐			15.56		P	98.9
4	☐			13.33		P	132.3
5	☐			24.44		P	41.7
6	☐			66.67		P	45.8
7	☐			104.45		P	25.8
8	☐			17.78		P	57.3

150 Nd [He] No available calibration points

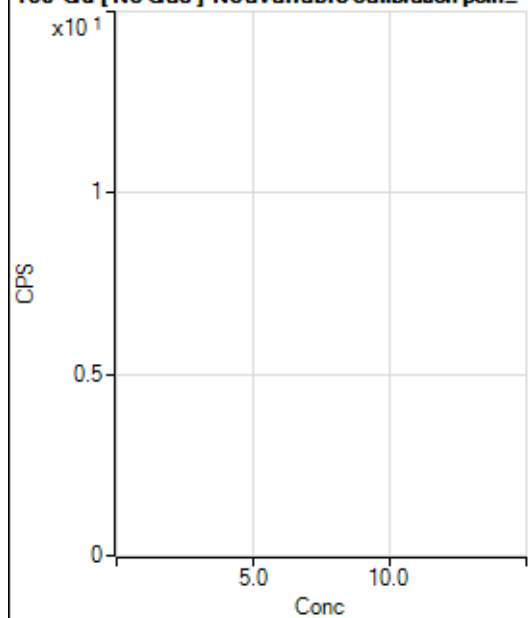
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			0.00		P	
5	☐			3.33		P	100.1
6	☐			7.78		P	65.5
7	☐			4.44		P	43.4
8	☐			3.33		P	100.1

156 Dy [No Gas] No available calibration points

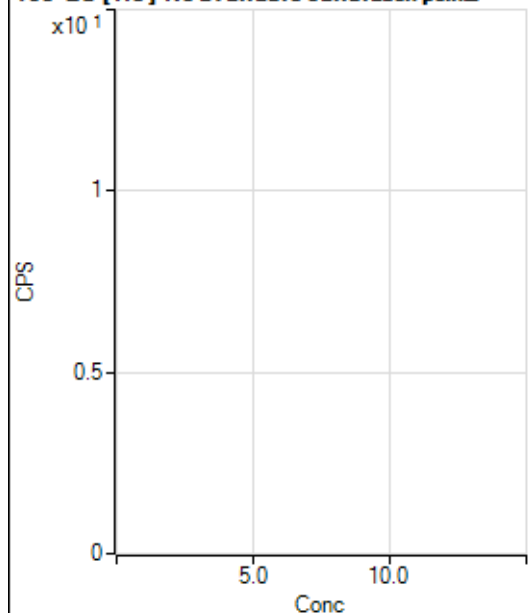
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	114.6
2	☐			2.78		P	173.2
3	☐			11.11		P	114.6
4	☐			19.45		P	24.7
5	☐			27.78		P	45.8
6	☐			47.22		P	56.7
7	☐			66.67		P	12.5
8	☐			197.23		P	16.0

156 Dy [He] No available calibration points

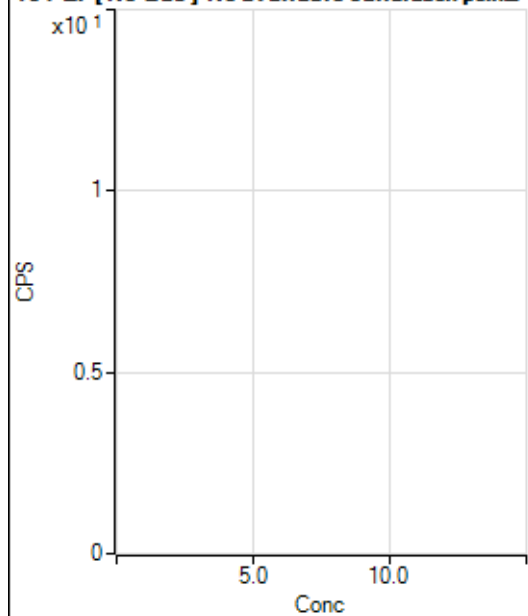
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			3.33		P	173.2
2	☐			0.00		P	
3	☐			3.33		P	173.2
4	☐			6.67		P	50.0
5	☐			6.67		P	100.0
6	☐			8.89		P	78.1
7	☐			22.22		P	17.3
8	☐			96.67		P	27.4

160 Gd [No Gas] Noavailable calibration poin_

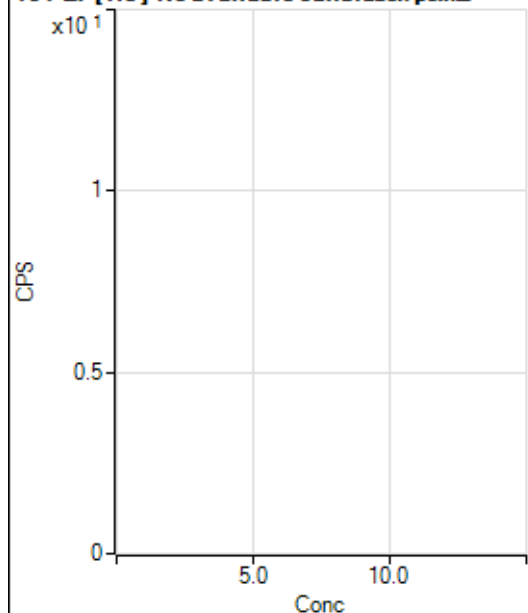
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			5.55		P	86.6
2	☐			5.55		P	86.6
3	☐			11.11		P	114.6
4	☐			5.55		P	86.6
5	☐			13.89		P	124.9
6	☐			33.33		P	50.0
7	☐			63.89		P	7.5
8	☐			147.23		P	16.3

160 Gd [He] No available calibration points

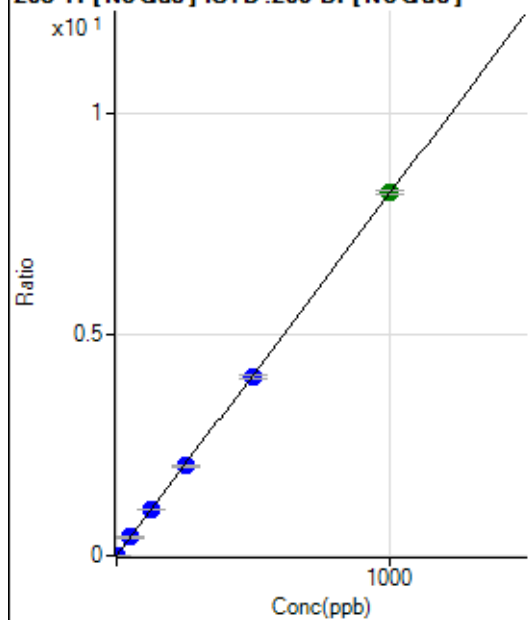
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			5.56		P	34.7
3	☐			3.33		P	100.1
4	☐			7.78		P	107.8
5	☐			16.67		P	20.0
6	☐			10.00		P	33.3
7	☐			26.67		P	25.0
8	☐			124.45		P	15.7

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			13.89		P	34.7
2	☐			2.78		P	173.2
3	☐			13.89		P	34.7
4	☐			16.67		P	50.0
5	☐			11.11		P	43.3
6	☐			5.55		P	86.6
7	☐			22.22		P	78.1
8	☐			19.44		P	65.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			3.33		P	0.0
3	☐			1.11		P	173.2
4	☐			3.33		P	100.1
5	☐			2.22		P	86.6
6	☐			4.44		P	114.6
7	☐			4.44		P	43.4
8	☐			12.22		P	41.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0001	P	31.9
2	☐	1.000	1.006	1861.30	0.0083	P	7.6
3	☐	50.000	50.583	93988.96	0.4136	P	1.6
4	☐	125.000	125.838	238380.01	1.0288	P	1.0
5	☐	250.000	248.826	474551.61	2.0343	P	1.4
6	☐	500.000	495.208	956629.13	4.0485	P	2.2
7	☐	1000.000	1002.556	1884748.37	8.1960	A	1.2
8	☐			1752.95	0.0079	P	3.1

$$y = 0.0082 * x + 1.1027E-004$$

$$R = 1.0000$$

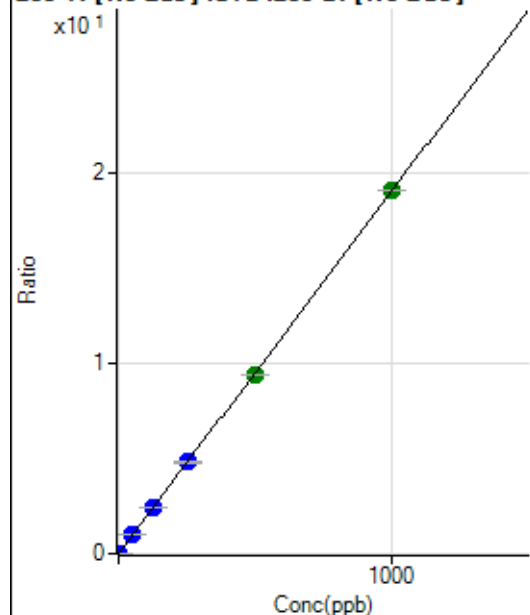
$$DL = 0.0129$$

$$BEC = 0.01349$$

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	50.00	0.0002	P	1.6
2	☐	1.000	0.985	4239.70	0.0190	P	1.3
3	☐	50.000	51.302	222285.31	0.9783	P	1.9
4	☐	125.000	128.172	566223.97	2.4438	P	0.4
5	☐	250.000	253.469	1127322.06	4.8325	P	1.0
6	☐	500.000	494.009	2226018.37	9.4184	A	0.9
7	☐	1000.000	1001.666	4391682.35	19.0967	A	0.2
8	☐			3784.01	0.0171	P	9.8

$$y = 0.0191 * x + 2.2122E-004$$

$$R = 1.0000$$

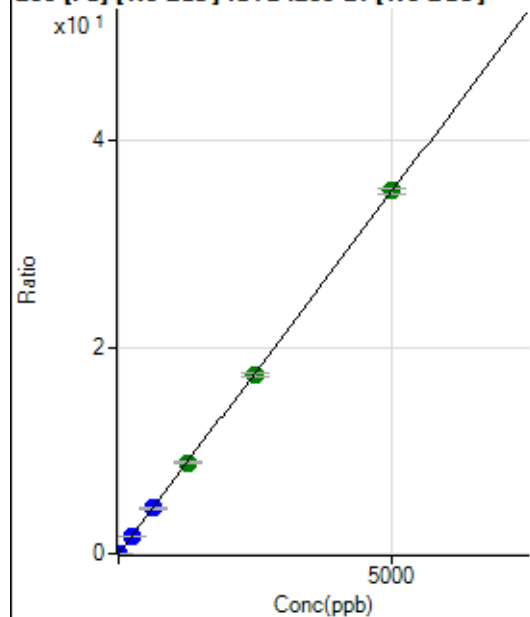
$$DL = 0.0005503$$

$$BEC = 0.0116$$

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	490.76	0.0022	P	11.0
2	☐	1.000	0.855	1820.54	0.0082	P	6.8
3	☐	250.000	248.893	396869.27	1.7466	P	1.1
4	☐	625.000	625.132	1015618.03	4.3836	P	0.9
5	☐	1250.000	1258.225	2057831.92	8.8208	A	0.6
6	☐	2500.000	2473.268	4096347.37	17.3367	A	2.6
7	☐	5000.000	5011.349	8076904.29	35.1255	A	1.8
8	☐			2276.17	0.0103	P	2.1

$$y = 0.0070 * x + 0.0022$$

$$R = 1.0000$$

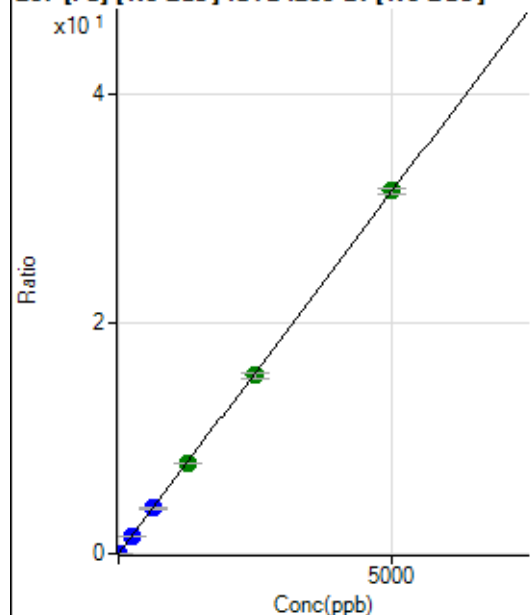
$$DL = 0.1018$$

$$BEC = 0.3094$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	438.91	0.0019	P	18.6
2	☐	1.000	0.815	1577.90	0.0071	P	4.3
3	☐	250.000	250.308	358316.99	1.5769	P	1.5
4	☐	625.000	624.667	911067.42	3.9325	P	1.6
5	☐	1250.000	1250.818	1836535.12	7.8724	A	0.2
6	☐	2500.000	2467.964	3669410.38	15.5310	A	3.0
7	☐	5000.000	5015.840	7257724.53	31.5630	A	1.4
8	☐			1918.70	0.0087	P	2.2

$$y = 0.0063 * x + 0.0019$$

$$R = 1.0000$$

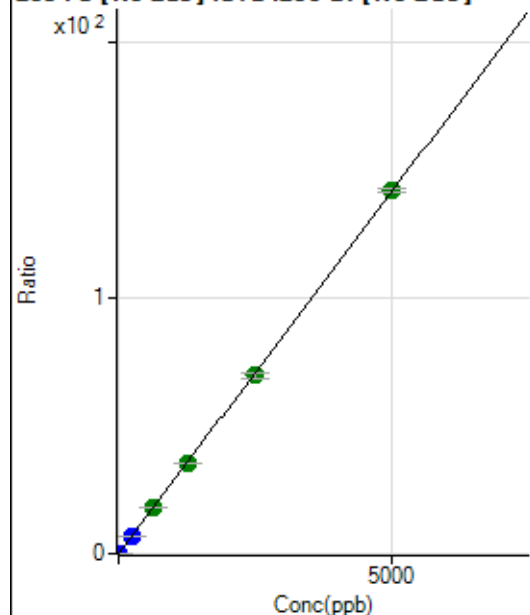
$$DL = 0.1727$$

$$BEC = 0.3091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1951.95	0.0086	P	2.6
2	☐	1.000	0.869	7404.69	0.0332	P	2.9
3	☐	250.000	250.006	1606831.12	7.0714	P	0.5
4	☐	625.000	634.534	4155177.84	17.9345	A	0.9
5	☐	1250.000	1259.896	8305251.63	35.6012	A	0.4
6	☐	2500.000	2459.523	16418268.02	69.4911	A	3.0
7	☐	5000.000	5016.572	32590478.62	141.7288	A	1.1
8	☐			8953.22	0.0405	P	1.4

$$y = 0.0283 * x + 0.0086$$

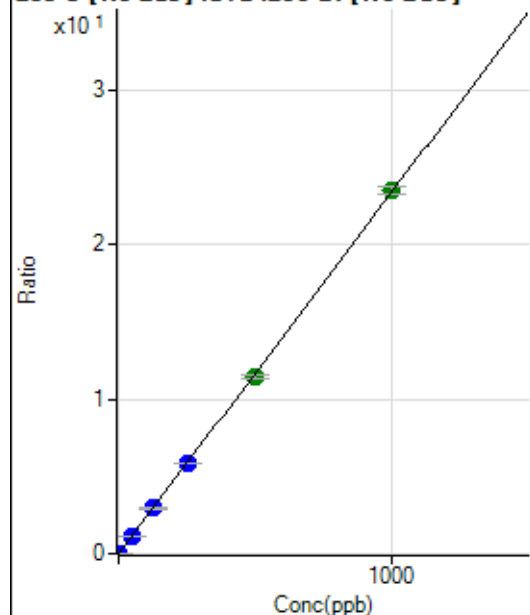
$$R = 0.9999$$

$$DL = 0.02364$$

$$BEC = 0.3056$$

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	13.89	0.0001	P	92.3
2	☐	1.000	0.939	4901.11	0.0220	P	2.4
3	☐	50.000	49.643	263105.88	1.1579	P	0.7
4	☐	125.000	125.254	676829.34	2.9213	P	0.9
5	☐	250.000	248.731	1353299.00	5.8011	P	0.4
6	☐	500.000	490.669	2703790.53	11.4436	A	2.8
7	☐	1000.000	1004.969	5389278.85	23.4383	A	2.1
8	☐			627.82	0.0028	P	10.7

$$y = 0.0233 * x + 6.1375E-005$$

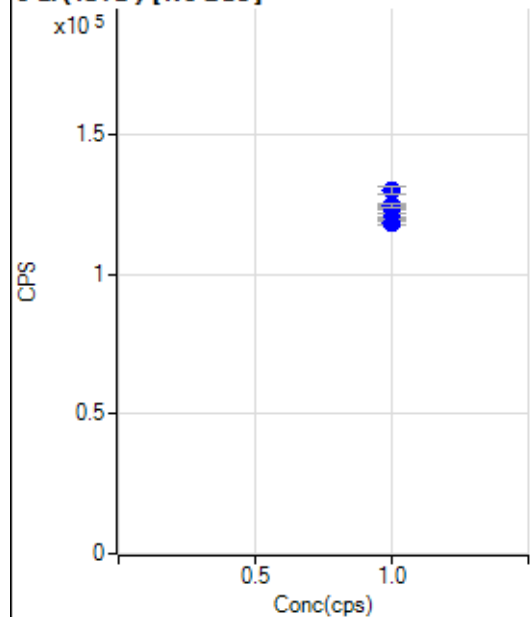
$$R = 0.9999$$

$$DL = 0.007289$$

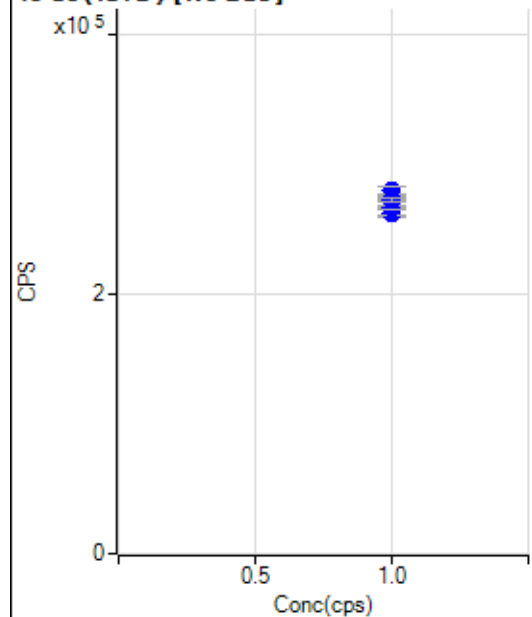
$$BEC = 0.002632$$

Weight: <None>

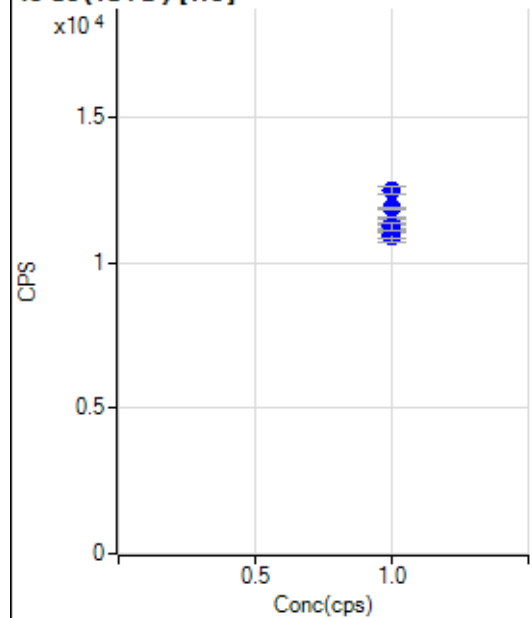
Min Conc: 0

6 Li (ISTD) [No Gas]

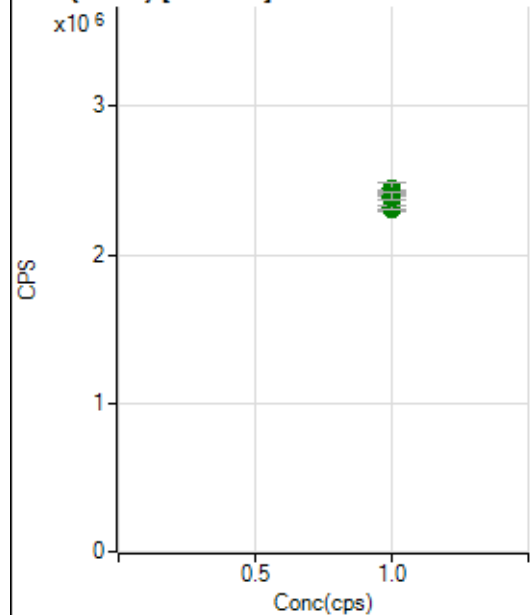
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		120019.65		P	0.9
2	☐	1.000		118462.99		P	0.9
3	☐	1.000		119268.82		P	0.5
4	☐	1.000		120182.92		P	0.4
5	☐	1.000		121876.78		P	0.3
6	☐	1.000		123986.52		P	1.1
7	☐	1.000		124961.50		P	1.2
8	☐	1.000		129968.42		P	2.2

45 Sc (ISTD) [No Gas]

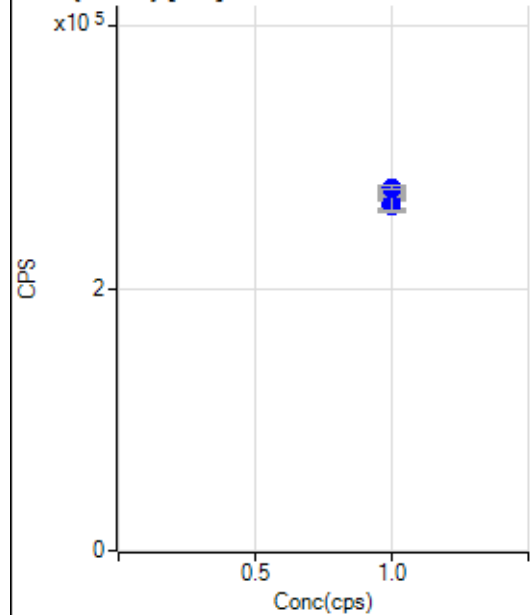
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		263016.47		P	2.6
2	☐	1.000		263142.51		P	1.3
3	☐	1.000		267317.32		P	0.9
4	☐	1.000		272603.17		P	0.3
5	☐	1.000		272921.57		P	0.4
6	☐	1.000		279900.15		P	2.0
7	☐	1.000		276609.42		P	0.6
8	☐	1.000		273082.41		P	1.3

45 Sc (ISTD) [He]

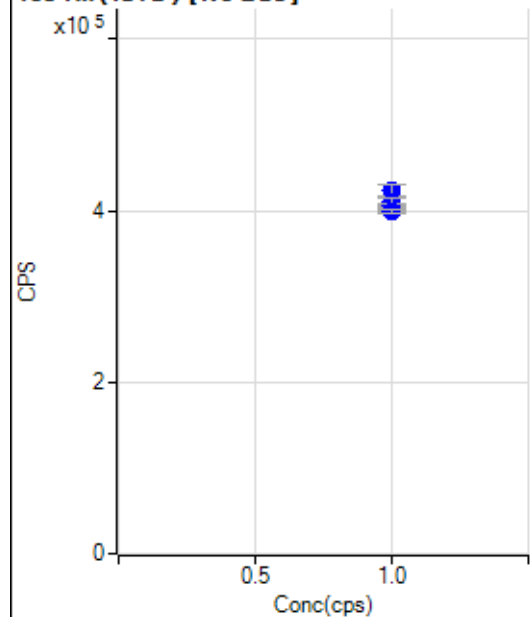
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10919.80		P	1.7
2	☐	1.000		10967.61		P	2.2
3	☐	1.000		10997.64		P	5.1
4	☐	1.000		11332.35		P	2.9
5	☐	1.000		11218.94		P	6.6
6	☐	1.000		11876.12		P	0.7
7	☐	1.000		12471.05		P	2.1
8	☐	1.000		11233.38		P	2.5

89 Y (ISTD) [No Gas]

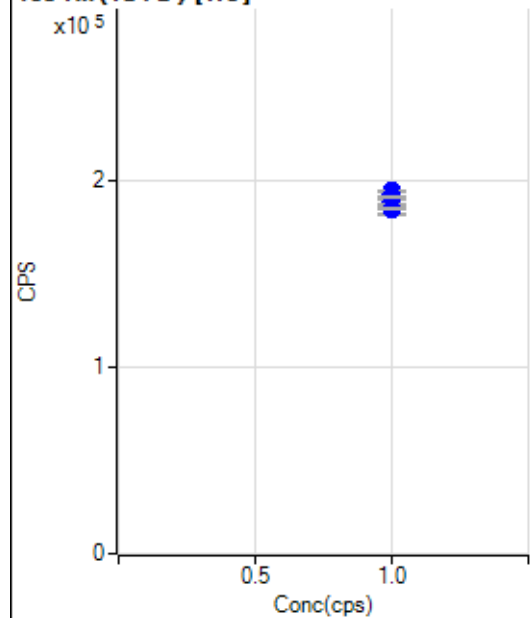
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2312931.14		A	1.1
2	☐	1.000		2300437.52		A	0.3
3	☐	1.000		2319246.51		A	0.7
4	☐	1.000		2428442.22		A	0.9
5	☐	1.000		2377418.52		A	1.0
6	☐	1.000		2442601.75		A	3.3
7	☐	1.000		2384804.01		A	1.2
8	☐	1.000		2392843.19		A	2.2

89 Y (ISTD) [He]

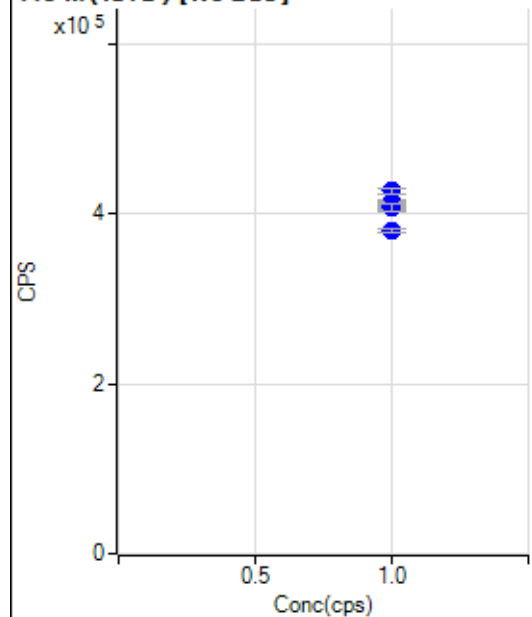
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		264444.22		P	2.1
2	☐	1.000		268064.57		P	0.3
3	☐	1.000		262914.80		P	3.1
4	☐	1.000		271744.49		P	0.8
5	☐	1.000		264813.27		P	3.8
6	☐	1.000		276774.27		P	1.4
7	☐	1.000		276283.24		P	0.7
8	☐	1.000		276662.04		P	1.0

103 Rh (ISTD) [No Gas]

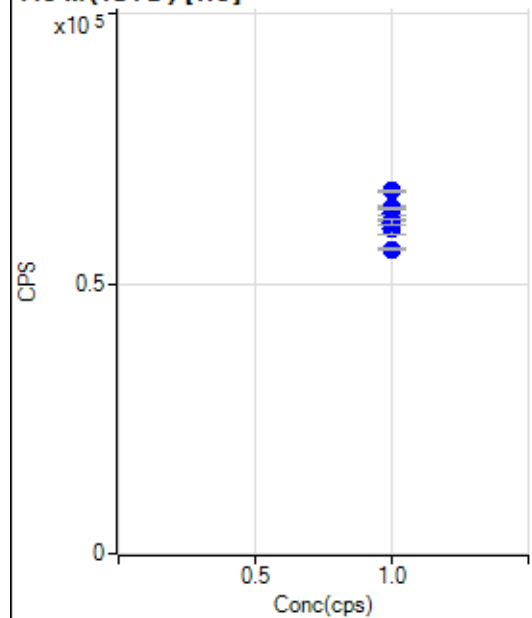
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		402478.38		P	1.3
2	☐	1.000		405734.77		P	0.7
3	☐	1.000		411217.01		P	1.2
4	☐	1.000		415316.81		P	0.8
5	☐	1.000		415245.49		P	0.4
6	☐	1.000		422802.65		P	3.5
7	☐	1.000		411100.74		P	1.5
8	☐	1.000		398329.89		P	1.3

103 Rh (ISTD) [He]

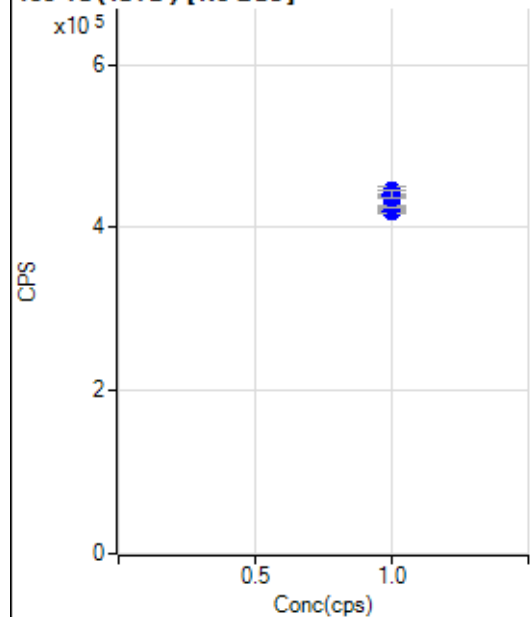
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		187652.47		P	1.9
2	☐	1.000		188206.45		P	1.3
3	☐	1.000		184318.98		P	3.1
4	☐	1.000		192808.89		P	1.0
5	☐	1.000		184984.39		P	3.2
6	☐	1.000		194412.01		P	0.4
7	☐	1.000		191324.25		P	0.9
8	☐	1.000		184842.80		P	0.6

115 In (ISTD) [No Gas]

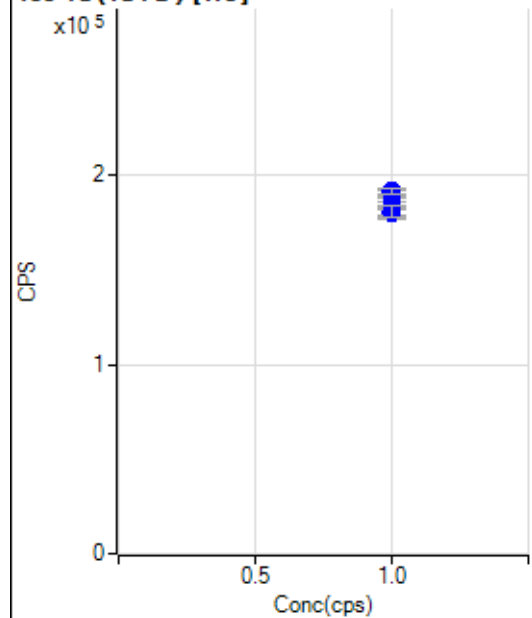
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		408336.32		P	1.5
2	☐	1.000		407082.46		P	1.0
3	☐	1.000		410008.19		P	0.7
4	☐	1.000		414172.28		P	0.6
5	☐	1.000		412995.95		P	0.4
6	☐	1.000		407716.66		P	2.6
7	☐	1.000		380068.71		P	1.6
8	☐	1.000		427161.32		P	1.9

115 In (ISTD) [He]

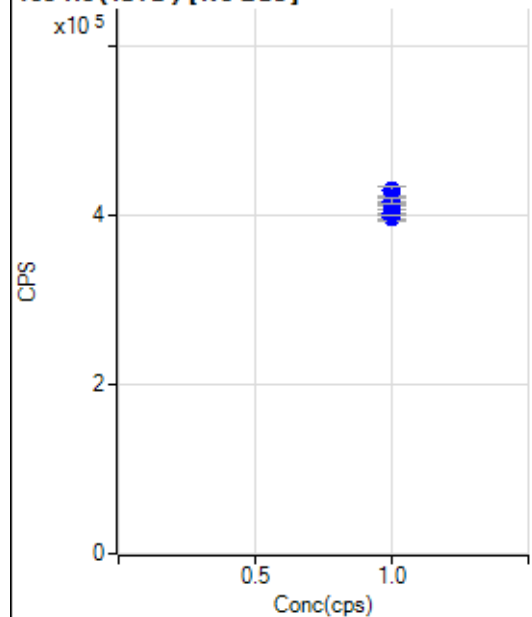
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		63181.21		P	1.4
2	☐	1.000		64157.49		P	0.8
3	☐	1.000		61822.54		P	3.0
4	☐	1.000		63970.07		P	0.8
5	☐	1.000		60281.05		P	4.1
6	☐	1.000		61433.91		P	2.1
7	☐	1.000		56436.38		P	1.1
8	☐	1.000		67248.16		P	0.2

159 Tb (ISTD) [No Gas]

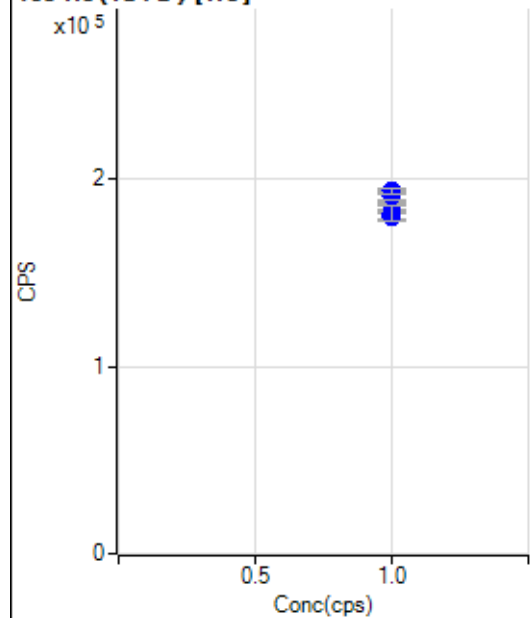
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		421480.41		P	1.1
2	☐	1.000		420028.03		P	1.1
3	☐	1.000		425831.47		P	0.6
4	☐	1.000		437889.04		P	0.9
5	☐	1.000		437302.91		P	0.4
6	☐	1.000		444821.15		P	2.6
7	☐	1.000		439090.17		P	1.1
8	☐	1.000		440861.36		P	2.1

159 Tb (ISTD) [He]

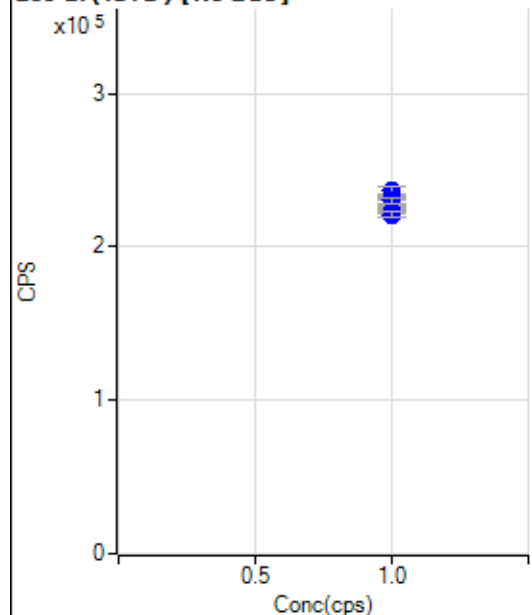
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		180719.82		P	2.2
2	☐	1.000		185888.09		P	0.0
3	☐	1.000		179816.87		P	2.9
4	☐	1.000		188696.51		P	0.5
5	☐	1.000		181344.22		P	3.5
6	☐	1.000		190747.14		P	1.5
7	☐	1.000		191652.93		P	1.3
8	☐	1.000		191976.46		P	1.4

165 Ho (ISTD) [No Gas]

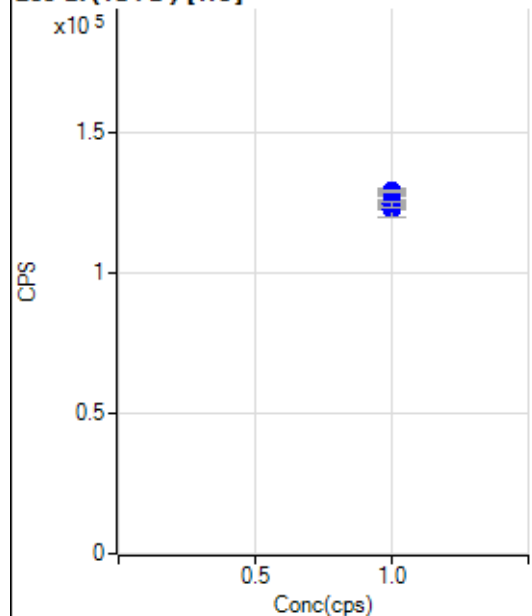
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		399282.04		P	1.5
2	☐	1.000		397923.16		P	1.8
3	☐	1.000		403724.71		P	1.3
4	☐	1.000		412489.93		P	0.7
5	☐	1.000		413064.10		P	0.9
6	☐	1.000		429477.95		P	2.7
7	☐	1.000		420515.88		P	1.7
8	☐	1.000		416938.30		P	1.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		180776.66		P	2.3
2	☐	1.000		182920.74		P	0.5
3	☐	1.000		179731.22		P	2.4
4	☐	1.000		187683.44		P	0.6
5	☐	1.000		181755.98		P	4.0
6	☐	1.000		190573.32		P	1.7
7	☐	1.000		193730.08		P	0.5
8	☐	1.000		193752.93		P	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		226053.58		P	1.6
2	☐	1.000		223240.31		P	1.6
3	☐	1.000		227232.53		P	0.5
4	☐	1.000		231702.86		P	1.2
5	☐	1.000		233288.26		P	0.7
6	☐	1.000		236382.62		P	2.5
7	☐	1.000		229968.51		P	1.2
8	☐	1.000		221026.19		P	1.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		124240.52		P	2.9
2	☐	1.000		124841.16		P	0.9
3	☐	1.000		122543.16		P	3.7
4	☐	1.000		127913.00		P	1.2
5	☐	1.000		123005.44		P	4.6
6	☐	1.000		129163.17		P	1.4
7	☐	1.000		129314.01		P	0.5
8	☐	1.000		124679.96		P	1.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091520M.b
Acq. Date-Time 2020-09-15 11:02:31
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		2128	21277.87			2.483	5.000
24		38236	382360.14			1.796	5.000
25		5030	50296.93			1.605	5.000
26		5787	57872.70			2.375	5.000
59		16860	168600.33			1.959	5.000
113		2668	26676.77			1.875	5.000
115		7770	77700.60			1.949	5.000
206		2680	26795.51			2.243	5.000
207		2240	22395.35			1.805	5.000
208		5524	55235.34			1.923	5.000
220		1	10.00			21.213	

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

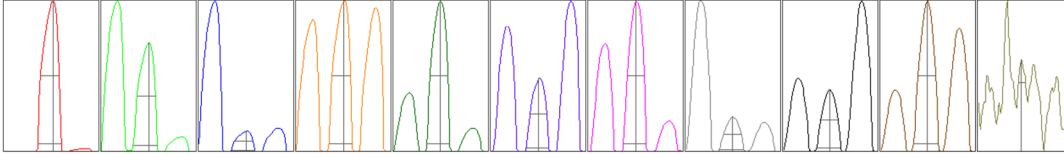
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2107	2189	2129	2163	2052
24	37539	38877	38427	38856	37481
25	4981	5078	5027	5134	4928
26	5753	5879	5787	5938	5579
59	16528	17112	16906	17238	16517
113	2624	2705	2694	2712	2604
115	7625	7828	7825	7965	7607
206	2620	2706	2693	2760	2620
207	2202	2254	2241	2299	2202
208	5410	5559	5528	5679	5442

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	3964.99	9.10	8.90 - 9.10	
24	70406.50	24.05	23.90 - 24.10	
25	9289.79	25.05	24.90 - 25.10	
26	10608.91	26.05	25.90 - 26.10	
59	32014.33	59.00	58.90 - 59.10	
113	5329.81	113.05	112.90 - 113.10	
115	15411.34	115.05	114.90 - 115.10	
206	5117.07	206.00	205.90 - 206.10	
207	4292.90	207.00	206.90 - 207.10	
208	10512.09	208.00	207.90 - 208.10	
220	1.20	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.736	0.900	
24	0.58	0.769	0.900	
25	0.58	0.737	0.900	
26	0.58	0.739	0.900	
59	0.56	0.729	0.900	
113	0.52	0.693	0.900	
115	0.53	0.715	0.900	
206	0.55	0.774	0.900	
207	0.55	0.778	0.900	
208	0.55	0.791	0.900	
220	0.22			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.2 V	Deflect	15.0 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

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

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4179	41793.68			2.656	
89		2490	24895.38			2.764	
205		6942	69420.64			2.251	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4277	4206	4226	3988	4200
89	2533	2514	2512	2367	2522
205	7048	6965	6990	6669	7038

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.2 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V