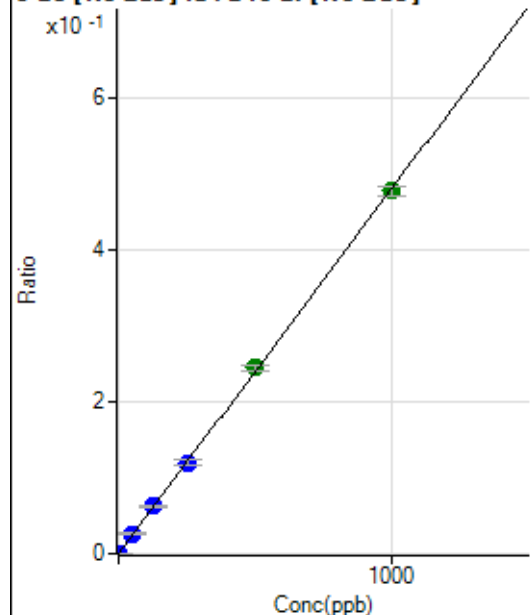


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8100221MS.b\
Analysis File: P8100221MS.batch.bin
DA Date-Time: 2021-10-03 22:21:59
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-10-02 16:21:32
2	005CAL.S.d	S02	2021-10-02 16:27:40
3	006CAL.S.d	S03	2021-10-02 16:30:46
4	007CAL.S.d	S04	2021-10-02 16:33:49
5	008CAL.S.d	S05	2021-10-02 16:36:55
6	009CAL.S.d	S06	2021-10-02 16:39:58
7	010CAL.S.d	S07	2021-10-02 16:43:03
8	011CAL.S.d	S08	2021-10-02 16:46:07

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	53.99	0.0000	P	23.0
2	☐	1.000	0.994	3515.73	0.0005	P	0.3
3	☐	50.000	54.716	175381.27	0.0262	P	7.7
4	☐	125.000	129.263	439754.65	0.0619	P	2.3
5	☐	250.000	248.794	877668.48	0.1192	P	5.7
6	☐	500.000	509.165	1751445.47	0.2440	A	2.8
7	☐	1000.000	994.950	3379253.08	0.4767	A	2.9
8	☐			429.92	0.0001	P	11.9

$$y = 4.7912\text{E-}004 * x + 7.8066\text{E-}006$$

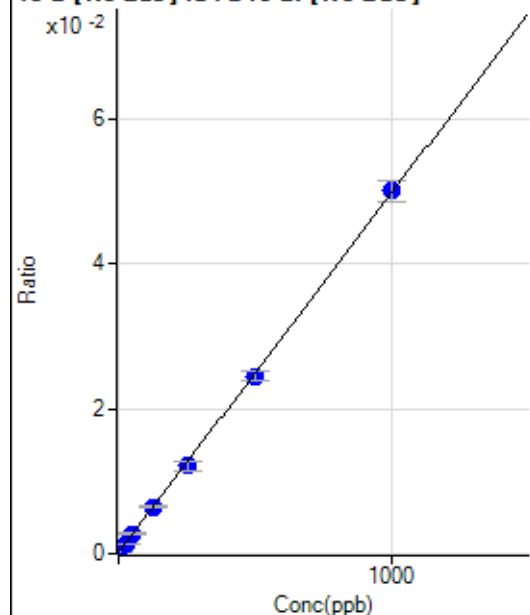
$$R = 0.9999$$

$$DL = 0.01123$$

$$BEC = 0.01629$$

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	1062.50	0.0002	P	2.4
2	☐	25.000	24.040	9786.70	0.0013	P	3.7
3	☐	50.000	52.491	18423.35	0.0028	P	11.3
4	☐	125.000	127.303	45918.68	0.0065	P	5.9
5	☐	250.000	241.674	89272.21	0.0121	P	10.6
6	☐	500.000	490.715	175910.67	0.0245	P	4.9
7	☐	1000.000	1006.336	354934.48	0.0501	P	5.7
8	☐			35962.30	0.0053	P	9.3

$$y = 4.9628\text{E-}005 * x + 1.5368\text{E-}004$$

$$R = 0.9999$$

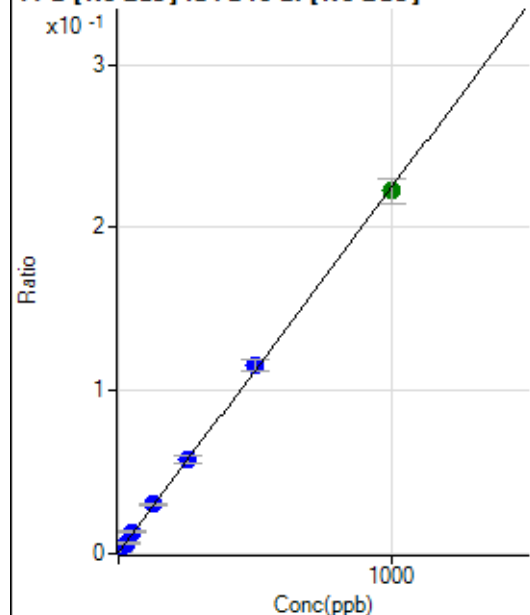
$$DL = 0.2237$$

$$BEC = 3.097$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4863.20	0.0007	P	2.5
2	☐	25.000	25.706	46931.89	0.0065	P	5.0
3	☐	50.000	56.085	88620.72	0.0133	P	9.8
4	☐	125.000	131.880	214478.62	0.0302	P	6.1
5	☐	250.000	254.214	423670.45	0.0576	P	9.0
6	☐	500.000	513.452	830089.00	0.1156	P	6.1
7	☐	1000.000	991.039	1576493.20	0.2226	A	6.6
8	☐			169478.56	0.0248	P	8.7

$$y = 2.2387E-004 * x + 7.0339E-004$$

$$R = 0.9998$$

$$DL = 0.2331$$

$$BEC = 3.142$$

Weight: <None>

Min Conc: 0

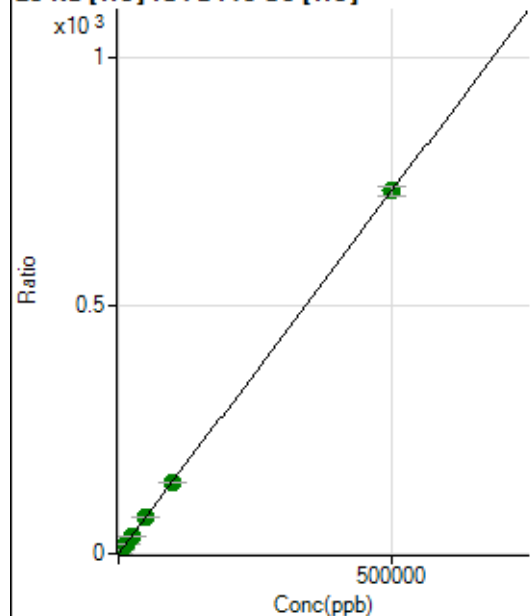
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6382073.63		A	1.0
2	☐			6320795.41		A	1.9
3	☐			6313683.43		A	1.3
4	☐			6356545.63		A	1.2
5	☐			6647923.63		A	1.7
6	☐			7284233.06		A	2.2
7	☐			8194450.70		A	3.3
8	☐			7349697.74		A	1.1

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			56877.46		P	1.6
2	☐			55201.56		P	1.0
3	☐			58299.39		P	2.5
4	☐			57764.42		P	0.4
5	☐			60969.24		P	1.8
6	☐			67416.17		P	0.9
7	☐			78437.26		P	1.1
8	☐			80627.19		P	0.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	28277.94	0.0829	P	1.9
2	☐	500.000	478.353	267948.95	0.7812	P	0.4
3	☐	5000.000	5025.001	2498626.34	7.4189	A	1.2
4	☐	12500.000	12591.929	6143470.54	18.4658	A	0.7
5	☐	25000.000	24247.006	11899111.03	35.4810	A	1.7
6	☐	50000.000	49476.609	23409662.85	72.3135	A	1.2
7	☐	100000.00	97962.281	46870483.69	143.0975	A	0.3
8	☐	500000.00	500495.00	239897480.3	730.7530	A	2.6

$$y = 0.0015 * x + 0.0829$$

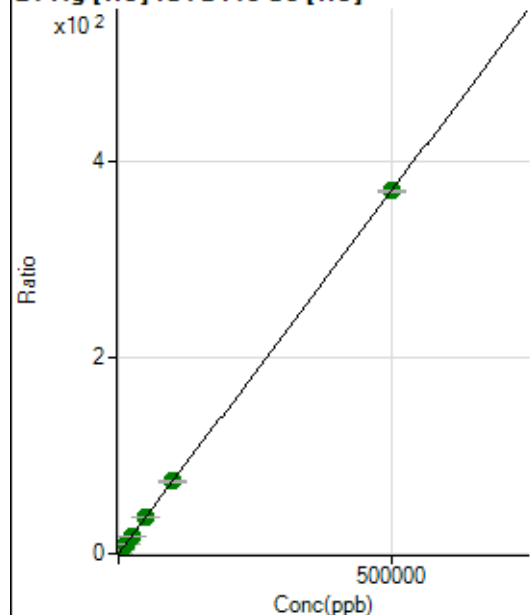
$$R = 1.0000$$

$$DL = 3.276$$

$$BEC = 56.77$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	811.16	0.0024	P	7.6
2	☐	500.000	493.261	125734.74	0.3666	P	1.1
3	☐	5000.000	5221.884	1299509.46	3.8581	A	0.5
4	☐	12500.000	12874.334	3163227.50	9.5085	A	1.2
5	☐	25000.000	24906.385	6168245.54	18.3927	A	0.8
6	☐	50000.000	50524.803	12077971.28	37.3088	A	1.2
7	☐	100000.00	99665.531	24105532.48	73.5932	A	0.8
8	☐	500000.00	500007.52	121232448.5	369.1969	A	0.6

$$y = 7.3838\text{E-}004 * x + 0.0024$$

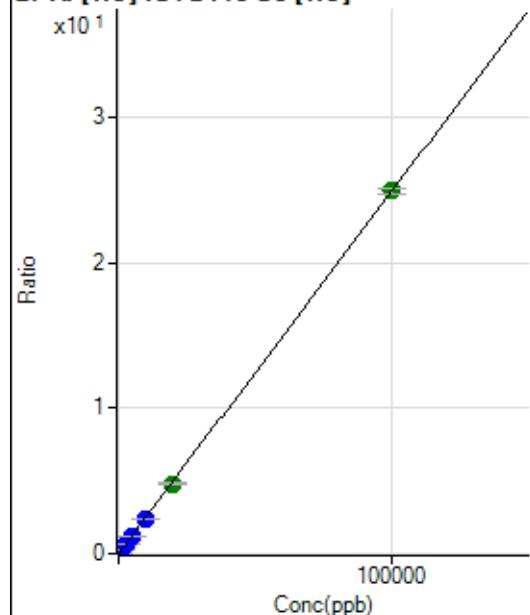
$$R = 1.0000$$

$$DL = 0.7386$$

$$BEC = 3.22$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	314.97	0.0009	P	8.5
2	☐	20.000	17.923	1848.22	0.0054	P	4.3
3	☐	1000.000	981.654	82682.97	0.2455	P	0.6
4	☐	2500.000	2419.616	200840.56	0.6037	P	1.8
5	☐	5000.000	4765.786	398494.85	1.1883	P	0.9
6	☐	10000.000	9628.555	776857.76	2.3998	P	1.5
7	☐	20000.000	19229.961	1569384.94	4.7919	A	2.7
8	☐	100000.00	100205.05	8196856.65	24.9661	A	1.3

$$y = 2.4914\text{E-}004 * x + 9.2371\text{E-}004$$

$$R = 1.0000$$

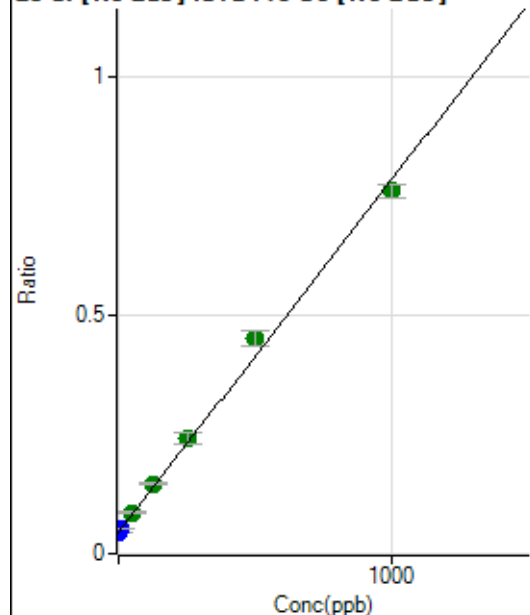
$$DL = 0.9406$$

$$BEC = 3.708$$

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	584916.47	0.0449	P	1.6
2	☐	10.000	9.579	693585.46	0.0520	P	3.4
3	☐	50.000	56.620	1077493.98	0.0867	A	5.6
4	☐	125.000	138.391	1898759.29	0.1472	A	3.0
5	☐	250.000	265.856	3292629.43	0.2415	A	11.0
6	☐	500.000	550.429	5966975.31	0.4519	A	7.3
7	☐	1000.000	968.821	10143279.65	0.7614	A	3.8
8	☐			1731330.56	0.1378	A	3.8

$$y = 7.3956\text{E-}004 * x + 0.0449$$

R = 0.9979

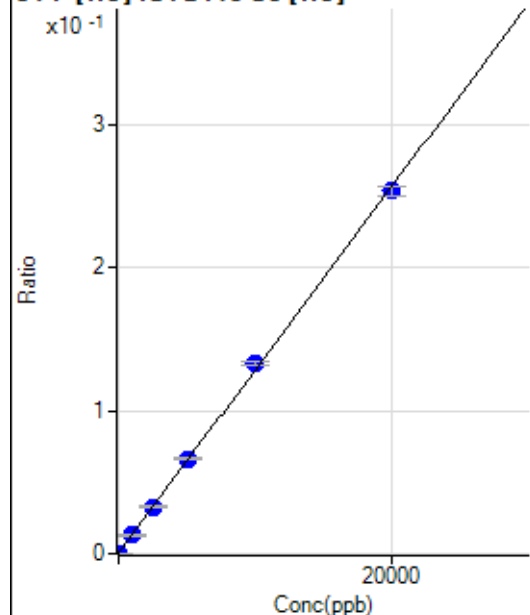
DL = 2.955

BEC = 60.67

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	-1.840	161.12	0.0005	P	24.8
2	☐	0.000	1.840	177.78	0.0005	P	43.8
3	☐	1000.000	998.604	4464.71	0.0133	P	8.7
4	☐	2500.000	2534.499	10943.28	0.0329	P	2.9
5	☐	5000.000	5126.388	22148.03	0.0660	P	2.5
6	☐	10000.000	10369.162	43073.10	0.1331	P	2.8
7	☐	20000.000	19779.579	82993.47	0.2534	P	2.4
8	☐			202.79	0.0006	P	41.4

$$y = 1.2786\text{E-}005 * x + 4.9516\text{E-}004$$

R = 0.9997

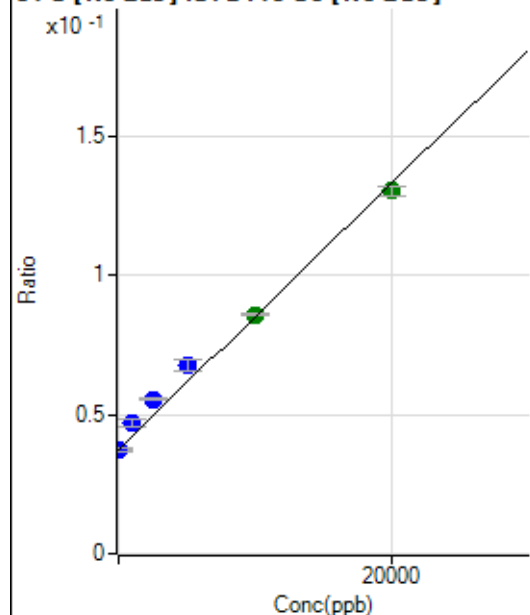
DL = 40.38

BEC = 38.73

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	37.401	491490.18	0.0377	P	2.5
2	☐	0.000	-37.401	498590.95	0.0373	P	3.3
3	☐	1000.000	1967.524	583222.40	0.0470	P	5.9
4	☐	2500.000	3764.890	716875.41	0.0556	P	1.7
5	☐	5000.000	6318.008	926420.51	0.0678	P	6.2
6	☐	10000.000	10121.388	1136889.51	0.0861	A	1.2
7	☐	20000.000	19403.317	1739306.22	0.1306	A	2.6
8	☐			432411.01	0.0344	P	0.3

$$y = 4.7947E-006 * x + 0.0375$$

R = 0.9958

DL = 682.9

BEC = 7827

Weight: <None>

Min Conc: 0

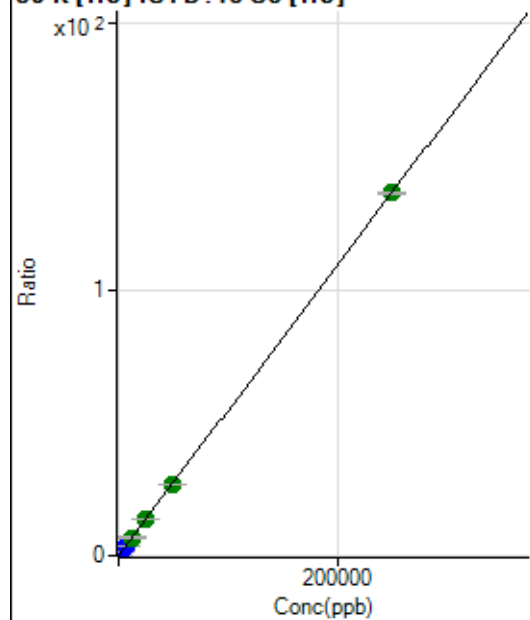
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5997643.67		A	0.6
2	☐			5765830.38		A	0.8
3	☐			5212423.55		A	2.0
4	☐			4898940.91		A	2.8
5	☐			4789757.70		A	2.4
6	☐			3633457.68		A	5.7
7	☐			3012469.73		A	4.1
8	☐			3196464.07		A	1.6

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			37365.72		P	2.8
2	☐			35897.80		P	1.6
3	☐			29029.64		P	2.1
4	☐			28119.51		P	1.2
5	☐			26555.41		P	1.4
6	☐			17775.18		P	3.0
7	☐			15258.32		P	2.6
8	☐			18617.97		P	1.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18356.60	0.0538	P	0.7
2	☐	500.000	475.222	107211.12	0.3126	P	1.0
3	☐	2500.000	2519.854	480275.13	1.4260	P	1.2
4	☐	6250.000	6185.784	1138472.95	3.4224	P	1.9
5	☐	12500.000	12489.458	2299076.59	6.8552	A	0.4
6	☐	25000.000	24835.942	4395488.55	13.5788	A	2.3
7	☐	50000.000	48706.025	8704982.49	26.5779	A	1.3
8	☐	250000.00	250277.18	44768793.36	136.3486	A	0.7

$$y = 5.4458E-004 * x + 0.0538$$

$$R = 1.0000$$

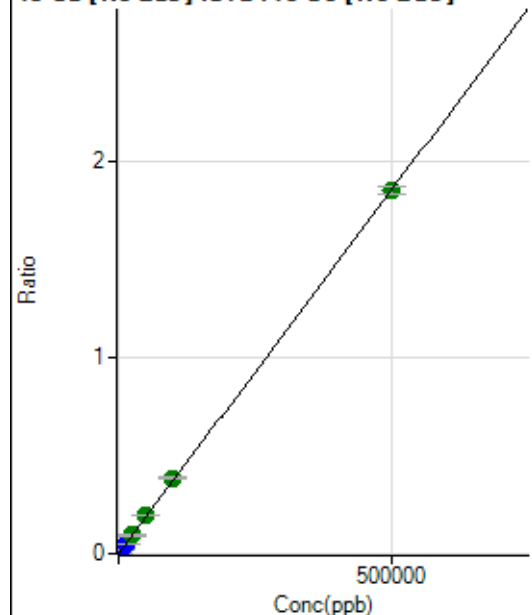
$$DL = 2.023$$

$$BEC = 98.77$$

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	554.94	0.0000	P	6.0
2	☐	500.000	457.629	23192.85	0.0017	P	3.2
3	☐	5000.000	5387.986	248283.27	0.0200	P	6.3
4	☐	12500.000	12976.054	620302.54	0.0481	P	1.7
5	☐	25000.000	25128.297	1272701.59	0.0931	A	4.3
6	☐	50000.000	52882.467	2587907.95	0.1959	A	0.6
7	☐	100000.00	103514.66	5107328.52	0.3834	A	2.3
8	☐	500000.00	498986.66	23209523.01	1.8479	A	2.1

$$y = 3.7032\text{E-}006 * x + 4.2581\text{E-}005$$

$$R = 1.0000$$

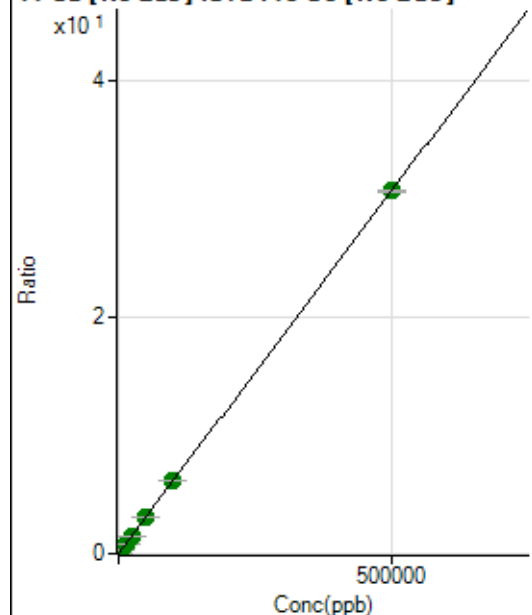
$$DL = 2.082$$

$$BEC = 11.5$$

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	48357.89	0.0037	P	2.2
2	☐	500.000	456.027	422368.36	0.0316	P	4.1
3	☐	5000.000	5361.770	4125273.38	0.3321	A	6.2
4	☐	12500.000	12829.883	10184986.37	0.7896	A	2.2
5	☐	25000.000	24162.509	20283008.82	1.4838	A	4.4
6	☐	50000.000	49825.893	40370592.49	3.0558	A	1.0
7	☐	100000.00	100189.89	81816216.44	6.1409	A	1.6
8	☐	500000.00	500009.48	384730372.6	30.6320	A	0.8

$$y = 6.1255\text{E-}005 * x + 0.0037$$

$$R = 1.0000$$

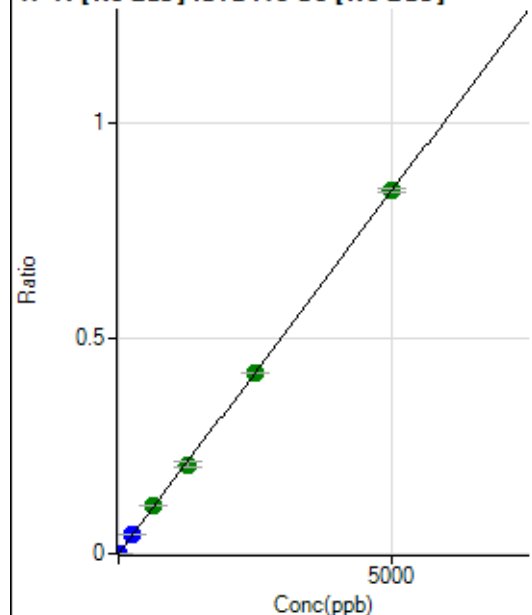
$$DL = 4.026$$

$$BEC = 60.56$$

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	352.79	0.0000	P	17.8
2	☐	5.000	4.837	11212.99	0.0008	P	4.9
3	☐	250.000	267.875	559244.61	0.0451	P	7.4
4	☐	625.000	659.704	1430804.37	0.1109	A	2.5
5	☐	1250.000	1226.965	2818131.86	0.2063	A	6.1
6	☐	2500.000	2494.464	5540615.70	0.4194	A	0.8
7	☐	5000.000	5003.295	11206104.16	0.8411	A	1.1
8	☐			2083.53	0.0002	P	6.8

$$y = 1.6810E-004 * x + 2.7083E-005$$

$$R = 1.0000$$

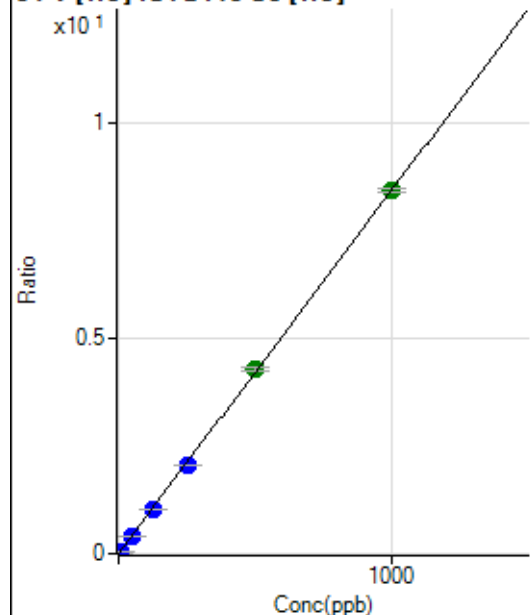
$$DL = 0.08582$$

$$BEC = 0.1611$$

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	17.78	0.0001	P	59.2
2	☐	5.000	4.870	14087.04	0.0411	P	2.7
3	☐	50.000	49.050	139170.54	0.4132	P	0.9
4	☐	125.000	122.744	343970.46	1.0340	P	1.3
5	☐	250.000	241.565	682408.73	2.0348	P	0.4
6	☐	500.000	506.702	1381895.48	4.2682	A	2.3
7	☐	1000.000	999.088	2756277.53	8.4157	A	1.2
8	☐			482.24	0.0015	P	8.1

$$y = 0.0084 * x + 5.1863E-005$$

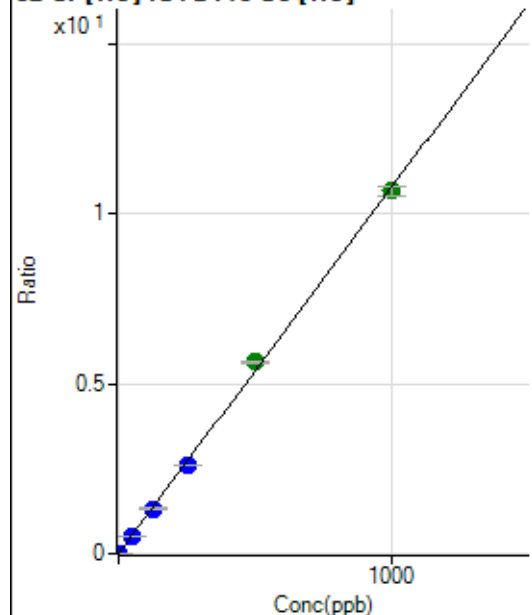
$$R = 0.9999$$

$$DL = 0.01094$$

$$BEC = 0.006157$$

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	1264.51	0.0037	P	1.1
2	☐	2.000	1.915	8346.97	0.0243	P	1.0
3	☐	50.000	49.155	179591.20	0.5332	P	0.8
4	☐	125.000	122.646	440726.74	1.3249	P	1.8
5	☐	250.000	241.248	872755.89	2.6025	P	1.6
6	☐	500.000	523.720	1827627.14	5.6454	A	0.9
7	☐	1000.000	990.665	3496188.18	10.6756	A	2.3
8	☐			9010.70	0.0274	P	3.8

$$y = 0.0108 * x + 0.0037$$

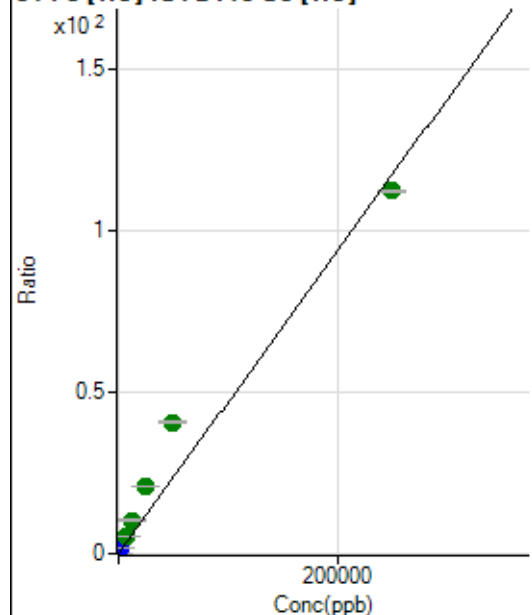
$$R = 0.9995$$

$$DL = 0.01105$$

$$BEC = 0.3439$$

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	775.96	0.0023	P	7.4
2	☐	50.000	47.985	8474.86	0.0247	P	2.7
3	☐	2500.000	4401.809	693886.60	2.0602	P	0.6
4	☐	6250.000	11439.472	1779879.52	5.3505	A	1.5
5	☐	12500.000	22228.629	3485925.51	10.3947	A	0.9
6	☐	25000.000	44689.832	6764419.02	20.8958	A	1.4
7	☐	50000.000	86812.076	13293462.10	40.5890	A	1.1
8	☐	250000.00	240033.41	36848900.36	112.2236	A	0.4

$$y = 4.6752E-004 * x + 0.0023$$

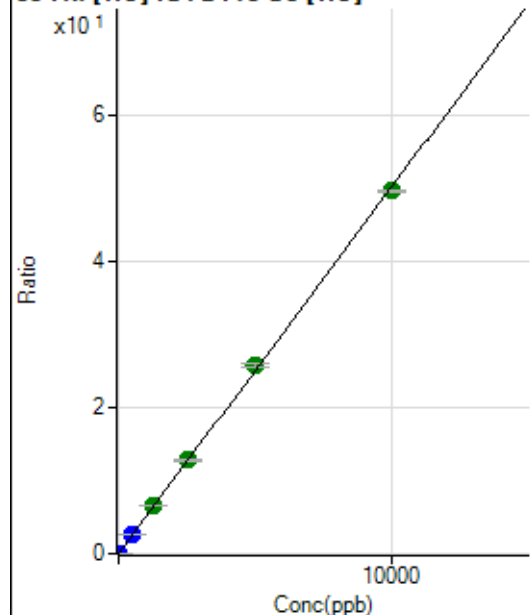
$$R = 0.9858$$

$$DL = 1.087$$

$$BEC = 4.863$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	184.45	0.0005	P	13.7
2	☐	1.000	0.944	1809.02	0.0053	P	4.4
3	☐	500.000	511.696	864171.74	2.5658	P	0.9
4	☐	1250.000	1316.327	2195500.87	6.5995	A	0.9
5	☐	2500.000	2553.854	4293607.71	12.8034	A	1.6
6	☐	5000.000	5153.124	8362304.32	25.8340	A	2.3
7	☐	10000.000	9901.099	16257033.65	49.6364	A	0.9
8	☐			17501.94	0.0533	P	0.6

$$y = 0.0050 * x + 5.4126E-004$$

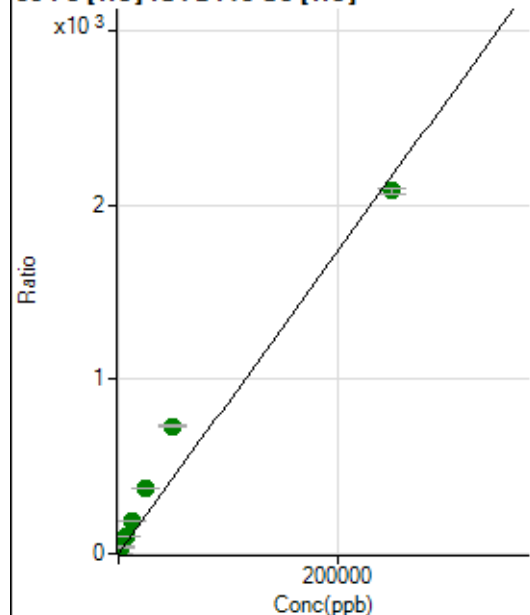
$$R = 0.9998$$

$$DL = 0.04428$$

$$BEC = 0.108$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6977.76	0.0205	P	2.2
2	☐	50.000	48.184	149872.42	0.4370	P	0.1
3	☐	2500.000	4406.906	12834770.89	38.1142	A	3.1
4	☐	6250.000	11120.822	31988120.39	96.1501	A	0.4
5	☐	12500.000	21581.547	62568105.57	186.5737	A	1.1
6	☐	25000.000	43679.287	122242064.7	377.5890	A	1.1
7	☐	50000.000	84605.917	239547118.3	731.3633	A	0.7
8	☐	250000.00	240615.97	682882689.3	2079.931	A	1.5

$$y = 0.0086 * x + 0.0205$$

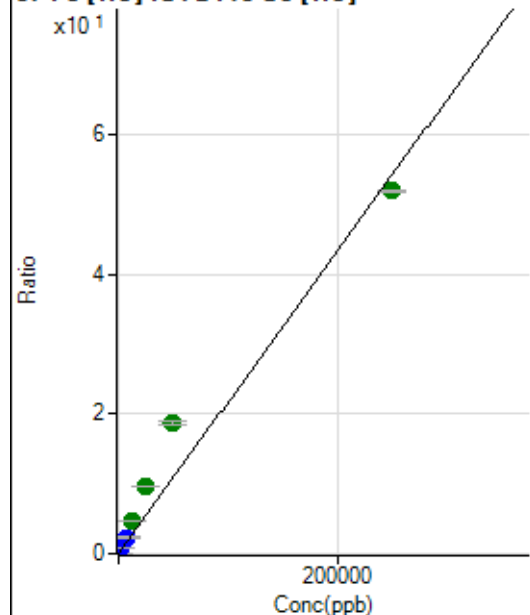
$$R = 0.9875$$

$$DL = 0.1582$$

$$BEC = 2.366$$

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	200.00	0.0006	P	11.2
2	☐	50.000	48.480	3798.72	0.0111	P	1.5
3	☐	2500.000	4290.581	312805.09	0.9288	P	1.7
4	☐	6250.000	10766.512	775058.96	2.3298	P	2.1
5	☐	12500.000	21920.699	1590648.91	4.7430	A	1.1
6	☐	25000.000	44974.097	3150276.20	9.7304	A	0.8
7	☐	50000.000	86482.904	6127490.41	18.7106	A	2.1
8	☐	250000.00	240104.15	17056585.10	51.9455	A	0.2

$$y = 2.1634\text{E-}004 * x + 5.8676\text{E-}004$$

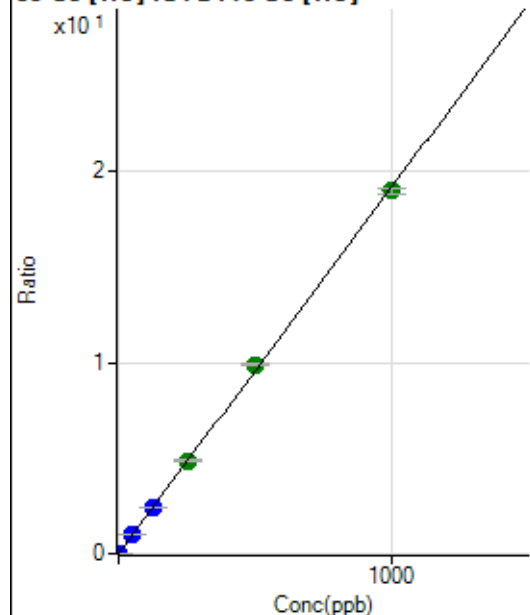
$$R = 0.9859$$

$$DL = 0.9146$$

$$BEC = 2.712$$

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	114.45	0.0003	P	6.0
2	☐	1.000	0.972	6512.66	0.0190	P	1.7
3	☐	50.000	50.705	327751.43	0.9731	P	0.7
4	☐	125.000	124.699	795908.69	2.3927	P	1.9
5	☐	250.000	254.151	1635402.74	4.8762	A	1.8
6	☐	500.000	516.942	3210850.54	9.9178	A	1.0
7	☐	1000.000	990.494	6223403.59	19.0028	A	1.9
8	☐			14783.33	0.0450	P	2.9

$$y = 0.0192 * x + 3.3558\text{E-}004$$

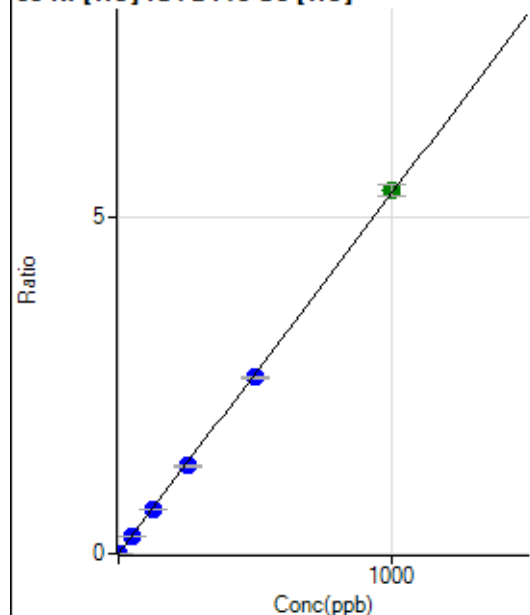
$$R = 0.9998$$

$$DL = 0.003153$$

$$BEC = 0.01749$$

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	206.67	0.0006	P	10.5
2	☐	1.000	0.985	2020.16	0.0059	P	5.1
3	☐	50.000	50.116	90730.92	0.2694	P	1.7
4	☐	125.000	124.105	221625.75	0.6663	P	2.0
5	☐	250.000	242.897	437104.09	1.3034	P	1.0
6	☐	500.000	488.857	849042.70	2.6226	P	0.8
7	☐	1000.000	1007.453	1769658.93	5.4042	A	3.3
8	☐			5176.55	0.0158	P	2.5

$$y = 0.0054 * x + 6.0627E-004$$

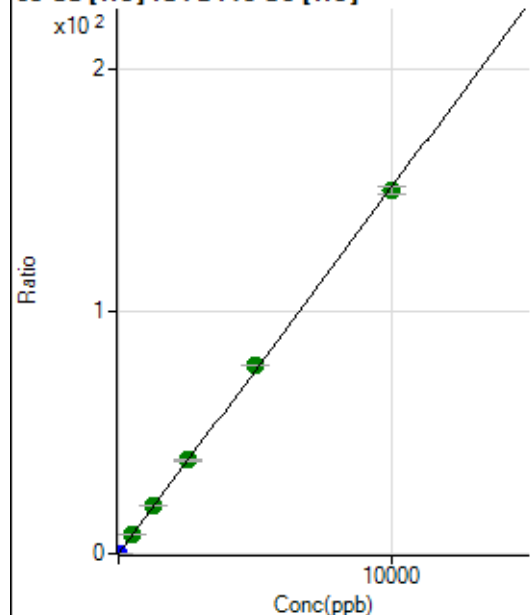
$$R = 0.9999$$

$$DL = 0.03576$$

$$BEC = 0.113$$

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	1380.09	0.0040	P	2.0
2	☐	2.000	1.771	10564.01	0.0308	P	1.7
3	☐	500.000	543.867	2767743.22	8.2185	A	2.3
4	☐	1250.000	1306.805	6567282.75	19.7417	A	1.4
5	☐	2500.000	2564.592	12990933.00	38.7390	A	1.8
6	☐	5000.000	5144.608	25156231.01	77.7069	A	1.0
7	☐	10000.000	9902.254	48981354.83	149.5651	A	2.1
8	☐			16070.33	0.0489	P	1.7

$$y = 0.0151 * x + 0.0040$$

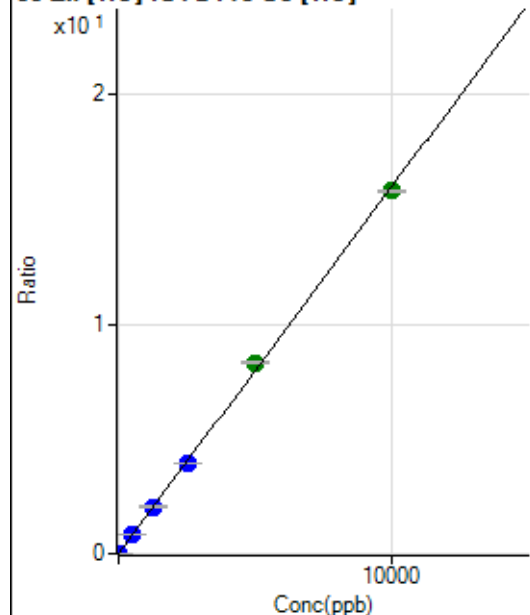
$$R = 0.9998$$

$$DL = 0.01642$$

$$BEC = 0.2678$$

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	668.91	0.0020	P	10.2
2	☐	2.000	2.117	1831.25	0.0053	P	2.9
3	☐	500.000	513.417	276533.38	0.8211	P	1.1
4	☐	1250.000	1275.096	677432.94	2.0363	P	1.4
5	☐	2500.000	2478.469	1326748.18	3.9562	P	0.9
6	☐	5000.000	5211.368	2692127.22	8.3163	A	1.5
7	☐	10000.000	9895.891	5171780.06	15.7901	A	0.7
8	☐			10848.69	0.0330	P	1.1

$$y = 0.0016 * x + 0.0020$$

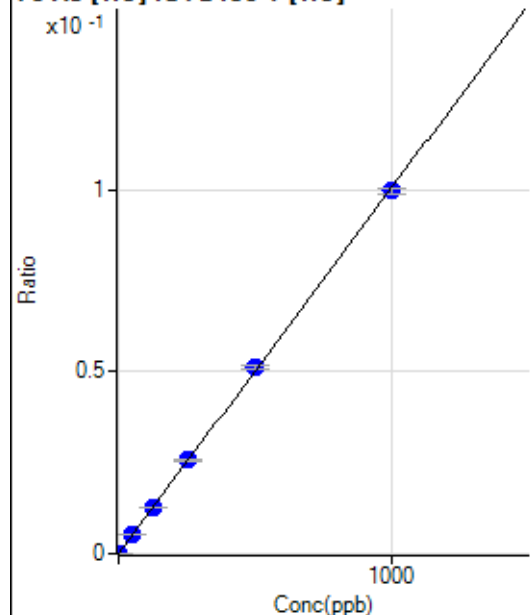
$$R = 0.9997$$

$$DL = 0.3757$$

$$BEC = 1.23$$

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	18.00	0.0000	P	13.3
2	☐	1.000	1.029	336.04	0.0001	P	2.2
3	☐	50.000	51.905	15969.62	0.0052	P	1.1
4	☐	125.000	127.541	38889.80	0.0128	P	0.9
5	☐	250.000	255.353	77764.69	0.0257	P	1.7
6	☐	500.000	512.489	152765.79	0.0515	P	2.0
7	☐	1000.000	992.004	298227.02	0.0997	P	1.5
8	☐			111.68	0.0000	P	2.9

$$y = 1.0052E-004 * x + 5.9113E-006$$

$$R = 0.9999$$

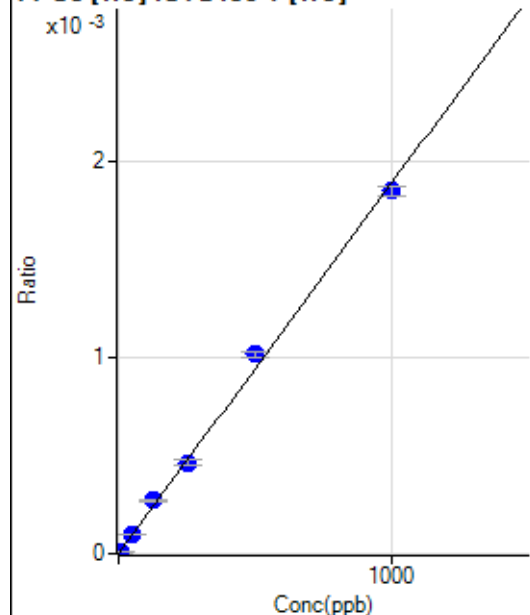
$$DL = 0.02354$$

$$BEC = 0.05881$$

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	4.979	31.11	0.0000	P	65.5
3	☐	50.000	52.136	303.34	0.0001	P	1.7
4	☐	125.000	142.759	820.03	0.0003	P	6.3
5	☐	250.000	245.896	1408.98	0.0005	P	6.4
6	☐	500.000	538.002	3017.03	0.0010	P	2.3
7	☐	1000.000	979.698	5536.70	0.0019	P	2.7
8	☐			2.22	0.0000	P	86.7

$$y = 1.8891\text{E-}006 * x + 7.3054\text{E-}007$$

$$R = 0.9988$$

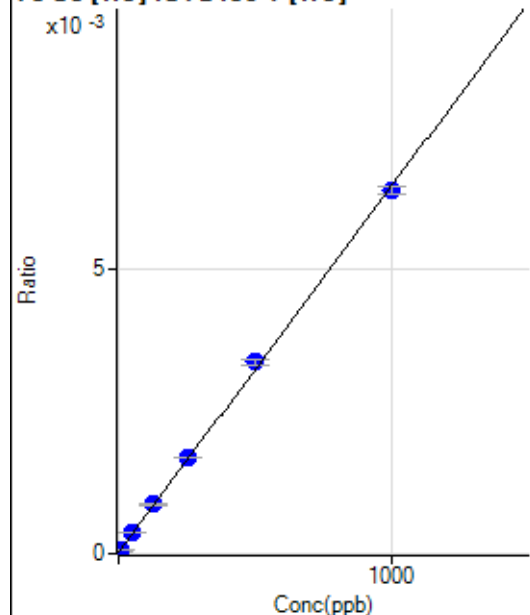
$$DL = 1.005$$

$$BEC = 0.3867$$

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	64.68	0.0000	P	15.5
2	☐	5.000	5.037	165.02	0.0001	P	7.5
3	☐	50.000	53.432	1117.83	0.0004	P	1.3
4	☐	125.000	131.346	2631.52	0.0009	P	2.0
5	☐	250.000	259.064	5122.12	0.0017	P	1.1
6	☐	500.000	519.190	9984.54	0.0034	P	2.5
7	☐	1000.000	987.174	19090.15	0.0064	P	2.0
8	☐			64.01	0.0000	P	12.3

$$y = 6.4450\text{E-}006 * x + 2.1250\text{E-}005$$

$$R = 0.9997$$

$$DL = 1.529$$

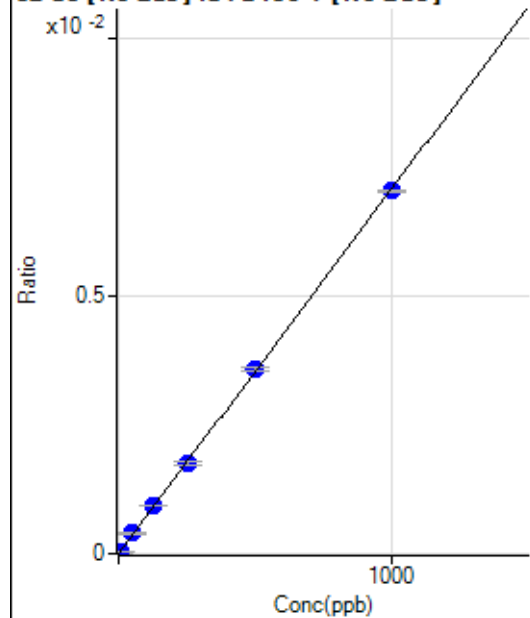
$$BEC = 3.297$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			24918.04		P	5.7
2	☐			24968.06		P	4.4
3	☐			25198.64		P	1.8
4	☐			24757.64		P	5.7
5	☐			24630.30		P	3.6
6	☐			23517.44		P	0.8
7	☐			23346.77		P	2.3
8	☐			25238.86		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.88	0.0000	P	2612.
2	☐	5.000	4.962	1212.80	0.0000	P	2.0
3	☐	50.000	55.545	12467.01	0.0004	P	5.5
4	☐	125.000	132.294	30677.35	0.0009	P	1.2
5	☐	250.000	249.270	61366.75	0.0018	P	4.1
6	☐	500.000	507.509	122098.93	0.0036	P	1.8
7	☐	1000.000	995.239	238649.82	0.0070	P	0.5
8	☐			198.90	0.0000	P	20.4

$$y = 7.0697E-006 * x + 7.8224E-008$$

$$R = 0.9999$$

$$DL = 0.867$$

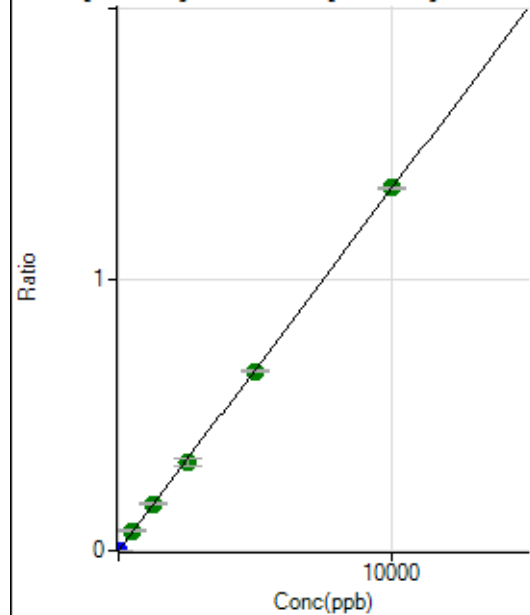
$$BEC = 0.01106$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1000.05		P	8.6
2	☐			953.37		P	3.9
3	☐			952.26		P	4.2
4	☐			960.04		P	6.6
5	☐			1004.49		P	3.3
6	☐			956.71		P	4.2
7	☐			1050.05		P	0.8
8	☐			1046.72		P	3.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1716.83	0.0001	P	13.5
2	☐	1.000	1.066	6701.81	0.0002	P	4.6
3	☐	500.000	543.345	2299451.76	0.0725	A	6.0
4	☐	1250.000	1294.322	5657959.59	0.1725	A	1.7
5	☐	2500.000	2444.989	11339537.40	0.3259	A	6.6
6	☐	5000.000	4959.339	22490827.06	0.6609	A	1.4
7	☐	10000.000	10026.376	45318807.26	1.3361	A	0.6
8	☐			21127.62	0.0007	P	1.9

$$y = 1.3325E-004 * x + 5.2196E-005$$

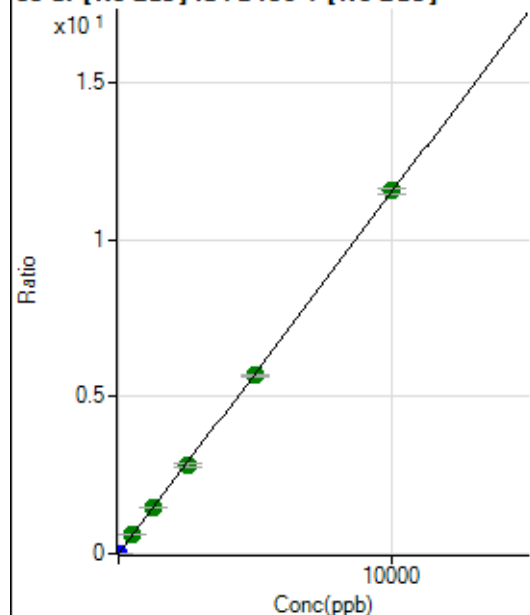
$$R = 0.9999$$

$$DL = 0.1592$$

$$BEC = 0.3917$$

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	1769.61	0.0001	P	8.2
2	☐	1.000	1.061	44003.40	0.0013	P	2.8
3	☐	500.000	534.541	19542713.46	0.6159	A	6.7
4	☐	1250.000	1272.641	48093512.88	1.4663	A	0.8
5	☐	2500.000	2448.141	98184379.97	2.8207	A	5.5
6	☐	5000.000	4932.171	193388632.1	5.6826	A	1.1
7	☐	10000.000	10042.322	392446961.5	11.5702	A	1.6
8	☐			170444.89	0.0053	P	2.3

$$y = 0.0012 * x + 5.3809E-005$$

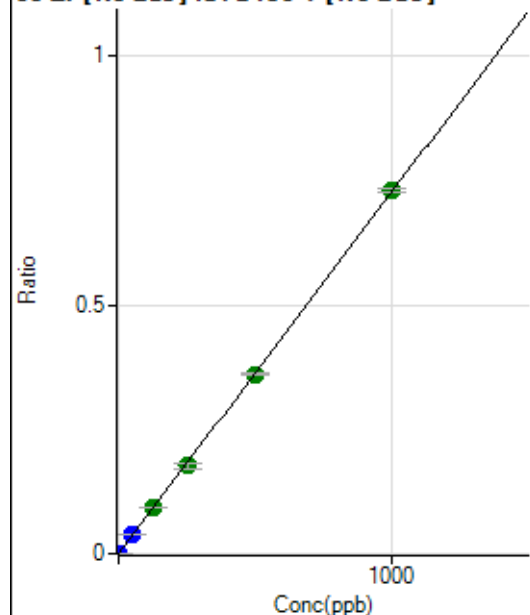
$$R = 0.9999$$

$$DL = 0.01142$$

$$BEC = 0.0467$$

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	1644.58	0.0001	P	0.8
2	☐	1.000	0.893	24085.24	0.0007	P	0.6
3	☐	50.000	51.759	1194474.83	0.0376	P	4.5
4	☐	125.000	128.205	3053531.51	0.0931	A	1.7
5	☐	250.000	242.099	6119986.42	0.1758	A	4.6
6	☐	500.000	495.023	12229382.83	0.3594	A	1.1
7	☐	1000.000	1003.975	24717460.62	0.7288	A	1.2
8	☐			8127.60	0.0003	P	3.5

$$y = 7.2583E-004 * x + 5.0026E-005$$

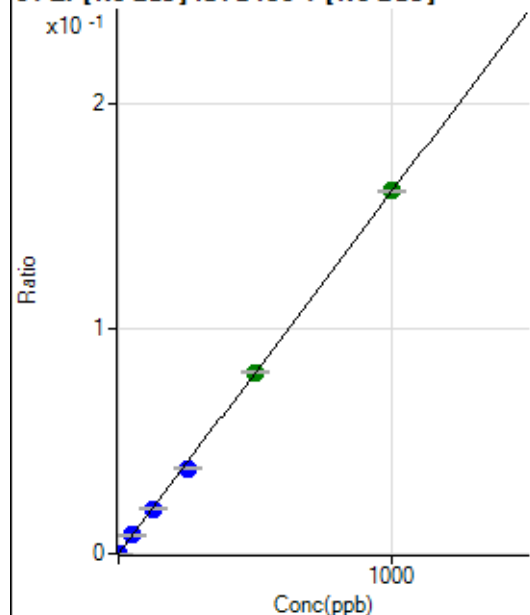
$$R = 0.9999$$

$$DL = 0.001694$$

$$BEC = 0.06892$$

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	338.90	0.0000	P	3.7
2	☐	1.000	0.859	5128.88	0.0001	P	1.6
3	☐	50.000	51.294	262498.25	0.0083	P	4.8
4	☐	125.000	124.207	656050.32	0.0200	P	2.8
5	☐	250.000	236.385	1325555.17	0.0381	P	3.9
6	☐	500.000	500.584	2742847.37	0.0806	A	1.3
7	☐	1000.000	1003.146	5478024.95	0.1615	A	0.7
8	☐			1827.95	0.0001	P	3.4

$$y = 1.6099\text{E-}004 * x + 1.0312\text{E-}005$$

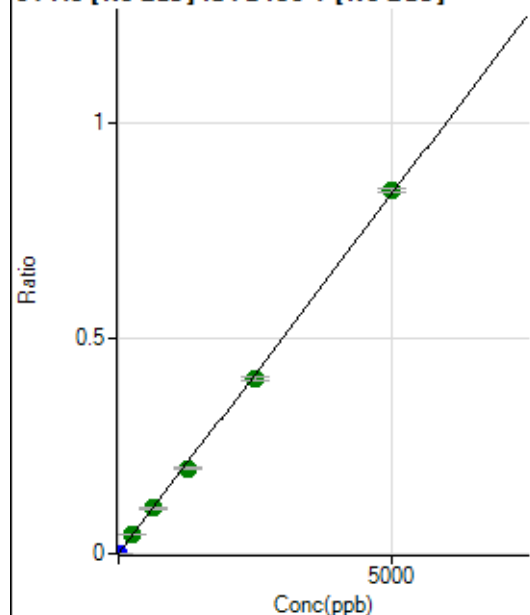
$$R = 0.9999$$

$$DL = 0.007143$$

$$BEC = 0.06405$$

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	677.82	0.0000	P	18.4
2	☐	5.000	4.684	27750.63	0.0008	P	0.5
3	☐	250.000	264.973	1407781.20	0.0444	A	6.1
4	☐	625.000	628.873	3451181.50	0.1052	A	2.6
5	☐	1250.000	1182.081	6890972.77	0.1978	A	2.3
6	☐	2500.000	2441.949	13904981.04	0.4086	A	2.1
7	☐	5000.000	5044.773	28630268.70	0.8441	A	1.0
8	☐			9642.50	0.0003	P	7.9

$$y = 1.6732\text{E-}004 * x + 2.0642\text{E-}005$$

$$R = 0.9998$$

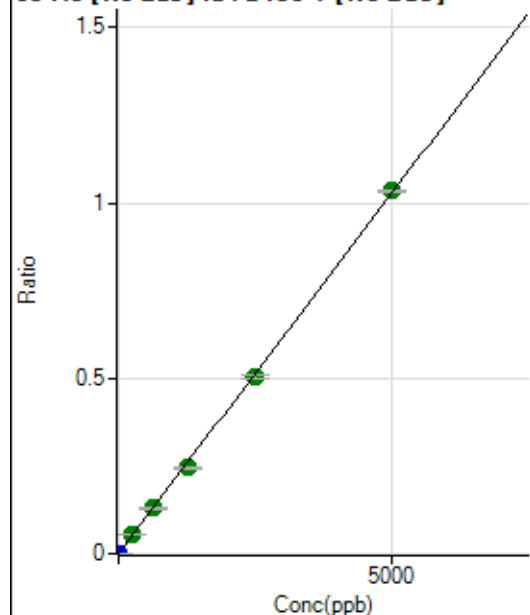
$$DL = 0.06798$$

$$BEC = 0.1234$$

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	227.79	0.0000	P	2.8
2	☐	5.000	4.747	33864.15	0.0010	P	0.6
3	☐	250.000	266.368	1735582.59	0.0547	A	6.5
4	☐	625.000	630.763	4246819.71	0.1295	A	2.8
5	☐	1250.000	1194.457	8544006.62	0.2452	A	2.0
6	☐	2500.000	2450.831	17122645.18	0.5032	A	2.2
7	☐	5000.000	5036.932	35075535.16	1.0341	A	0.6
8	☐			11174.22	0.0003	P	4.8

$$y = 2.0531E-004 * x + 6.9306E-006$$

R = 0.9998

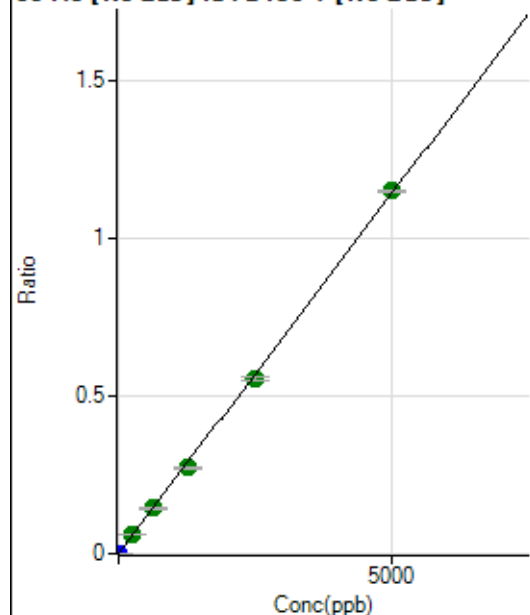
DL = 0.002873

BEC = 0.03376

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	466.69	0.0000	P	8.5
2	☐	5.000	4.683	37359.44	0.0011	P	1.8
3	☐	250.000	265.585	1923532.79	0.0606	A	7.0
4	☐	625.000	636.752	4765340.99	0.1453	A	3.1
5	☐	1250.000	1199.936	9540218.53	0.2739	A	2.3
6	☐	2500.000	2436.023	18918704.59	0.5560	A	1.9
7	☐	5000.000	5042.257	39029936.64	1.1507	A	0.8
8	☐			26078.08	0.0008	P	4.5

$$y = 2.2822E-004 * x + 1.4203E-005$$

R = 0.9998

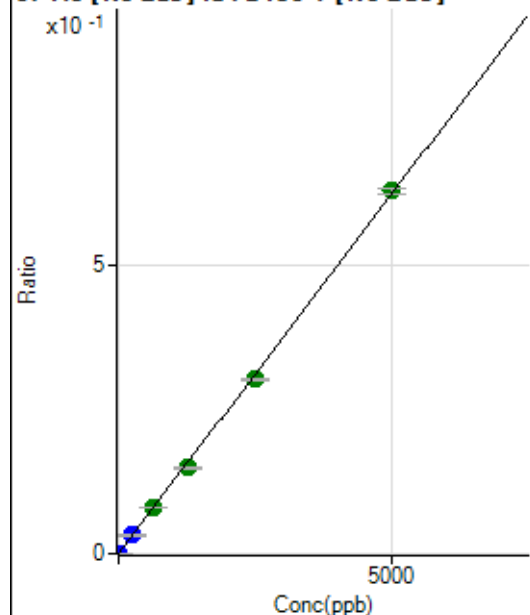
DL = 0.01588

BEC = 0.06223

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	155.56	0.0000	P	4.3
2	☐	5.000	4.752	20652.02	0.0006	P	4.8
3	☐	250.000	263.170	1043761.87	0.0329	P	7.1
4	☐	625.000	639.131	2619847.13	0.0799	A	2.4
5	☐	1250.000	1197.394	5213199.42	0.1497	A	3.0
6	☐	2500.000	2427.556	10327088.60	0.3034	A	0.7
7	☐	5000.000	5046.949	21396085.90	0.6308	A	1.4
8	☐			6610.11	0.0002	P	7.7

$$y = 1.2499\text{E-}004 * x + 4.7339\text{E-}006$$

$$R = 0.9998$$

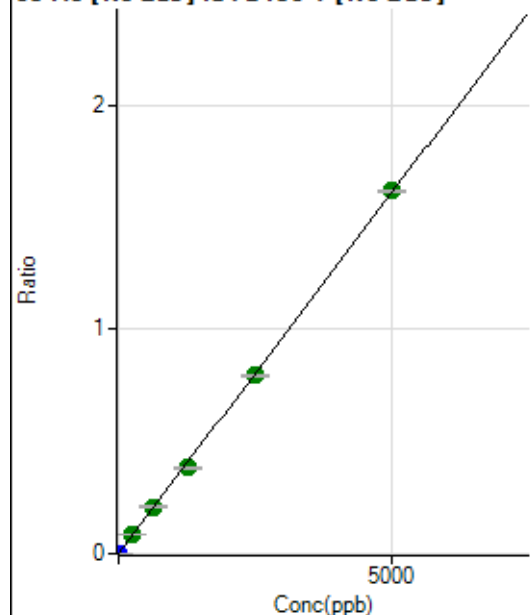
$$DL = 0.004888$$

$$BEC = 0.03787$$

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	355.57	0.0000	P	9.6
2	☐	5.000	4.819	53924.75	0.0016	P	3.0
3	☐	250.000	267.195	2731911.09	0.0861	A	6.3
4	☐	625.000	648.858	6855156.40	0.2090	A	2.2
5	☐	1250.000	1192.025	13375207.59	0.3840	A	3.2
6	☐	2500.000	2467.723	27055989.32	0.7950	A	1.5
7	☐	5000.000	5026.790	54927333.87	1.6194	A	0.7
8	☐			15687.07	0.0005	P	7.6

$$y = 3.2215\text{E-}004 * x + 1.0818\text{E-}005$$

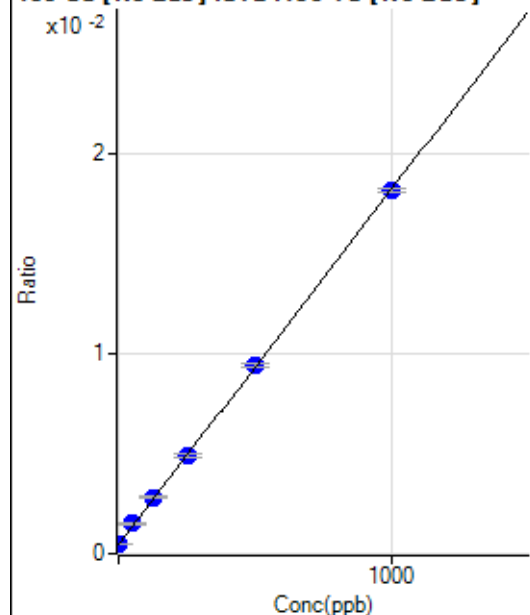
$$R = 0.9999$$

$$DL = 0.009716$$

$$BEC = 0.03358$$

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	7632.88	0.0005	P	8.1
2	☐	1.000	0.283	8066.50	0.0005	P	6.0
3	☐	50.000	58.445	24080.08	0.0015	P	4.7
4	☐	125.000	133.720	48310.50	0.0028	P	3.3
5	☐	250.000	250.850	91000.85	0.0049	P	3.9
6	☐	500.000	505.759	169247.93	0.0094	P	1.4
7	☐	1000.000	995.397	327449.27	0.0181	P	1.1
8	☐			8249.90	0.0005	P	1.3

$$y = 1.7776\text{E-}005 * x + 4.5350\text{E-}004$$

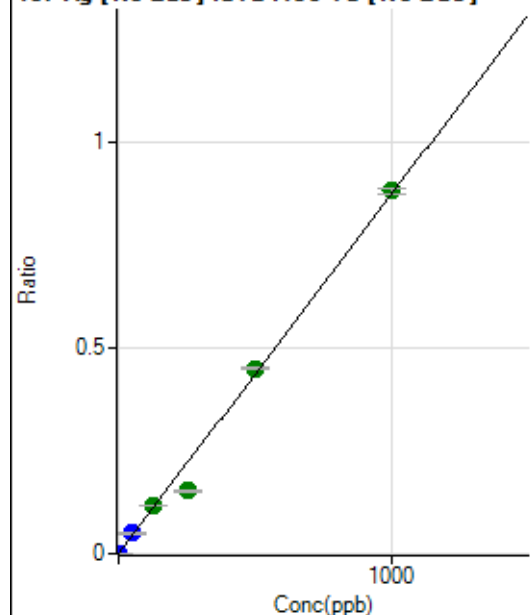
$$R = 0.9999$$

$$DL = 6.17$$

$$BEC = 25.51$$

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	311.12	0.0000	P	16.4
2	☐	1.000	0.954	14983.53	0.0009	P	2.8
3	☐	50.000	56.536	797073.49	0.0494	P	5.7
4	☐	125.000	135.120	2016484.23	0.1181	A	0.6
5	☐	250.000	174.495	2826724.56	0.1525	A	2.7
6	☐	500.000	515.866	8081913.20	0.4509	A	0.7
7	☐	1000.000	1009.351	15919354.35	0.8823	A	1.4
8	☐			4881.56	0.0003	P	5.4

$$y = 8.7411\text{E-}004 * x + 1.8503\text{E-}005$$

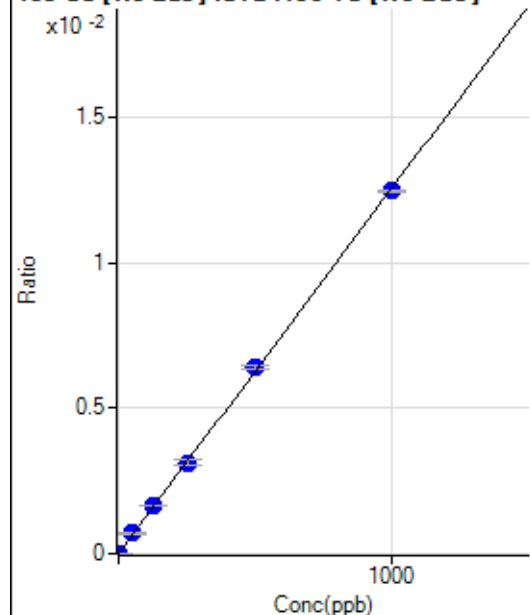
$$R = 0.9964$$

$$DL = 0.01043$$

$$BEC = 0.02117$$

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	51.39	0.0000	P	35.0
2	☐	1.000	1.057	286.12	0.0000	P	10.4
3	☐	50.000	56.757	11525.77	0.0007	P	6.9
4	☐	125.000	131.155	28133.15	0.0016	P	2.1
5	☐	250.000	248.644	57801.37	0.0031	P	5.7
6	☐	500.000	510.496	114823.20	0.0064	P	1.8
7	☐	1000.000	993.984	225037.74	0.0125	P	0.8
8	☐			125.00	0.0000	P	14.8

$$y = 1.2544\text{E-}005 * x + 3.0402\text{E-}006$$

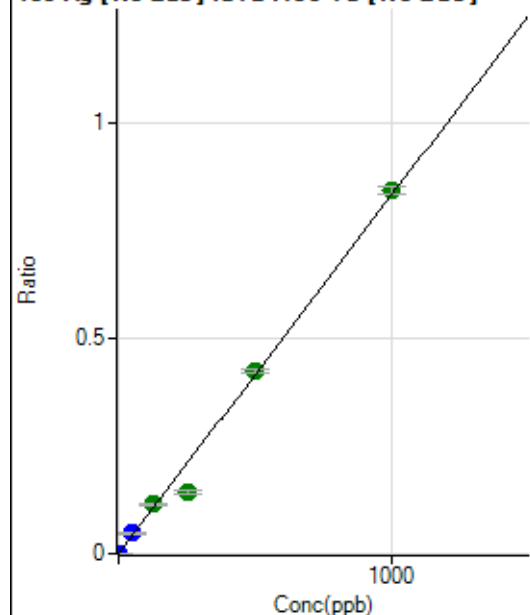
$$R = 0.9999$$

$$DL = 0.2542$$

$$BEC = 0.2424$$

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	225.01	0.0000	P	13.1
2	☐	1.000	0.981	14605.39	0.0008	P	5.3
3	☐	50.000	57.066	767082.11	0.0476	P	6.8
4	☐	125.000	137.037	1950816.30	0.1143	A	1.0
5	☐	250.000	173.204	2673765.51	0.1444	A	6.2
6	☐	500.000	510.526	7628881.07	0.4257	A	2.3
7	☐	1000.000	1012.078	15227485.41	0.8440	A	2.0
8	☐			4784.31	0.0003	P	8.2

$$y = 8.3388\text{E-}004 * x + 1.3378\text{E-}005$$

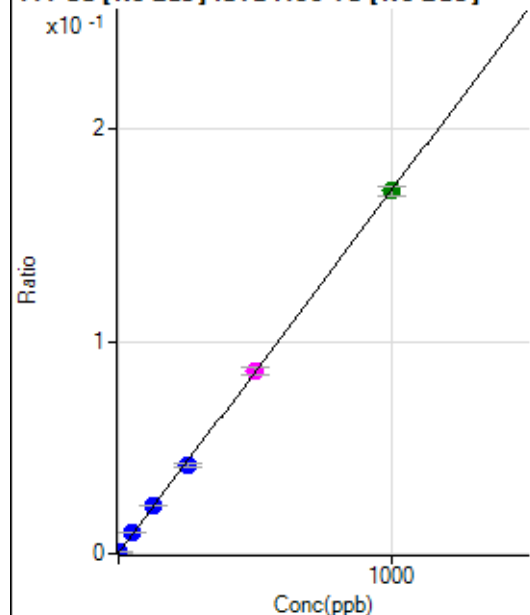
$$R = 0.9963$$

$$DL = 0.006312$$

$$BEC = 0.01604$$

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	5363.99	0.0003	P	8.4
2	☐	1.000	0.897	8299.38	0.0005	P	3.0
3	☐	50.000	56.145	159785.20	0.0099	P	6.6
4	☐	125.000	131.591	389283.73	0.0228	P	1.2
5	☐	250.000	242.724	773898.39	0.0418	P	5.4
6	☐	500.000	503.924	1548602.72	0.0864	M	4.0
7	☐	1000.000	998.726	3084806.70	0.1710	A	2.4
8	☐			6541.64	0.0004	P	1.4

$$y = 1.7089\text{E-}004 * x + 3.1871\text{E-}004$$

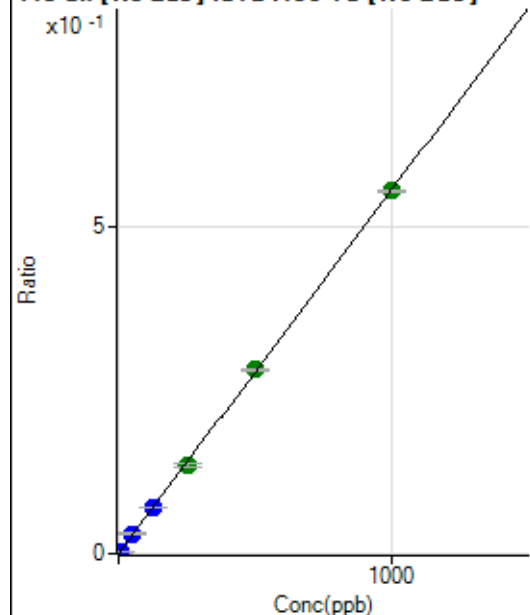
$$R = 0.9999$$

$$DL = 0.4701$$

$$BEC = 1.865$$

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	3889.53	0.0002	P	2.1
2	☐	5.000	4.879	51598.24	0.0029	P	3.9
3	☐	50.000	53.440	481014.12	0.0299	P	8.3
4	☐	125.000	127.446	1210349.18	0.0709	P	1.0
5	☐	250.000	245.427	2525178.18	0.1363	A	4.2
6	☐	500.000	505.655	5029656.41	0.2806	A	1.5
7	☐	1000.000	997.839	9988758.99	0.5536	A	0.8
8	☐			5206.70	0.0003	P	6.6

$$y = 5.5456\text{E-}004 * x + 2.3077\text{E-}004$$

$$R = 1.0000$$

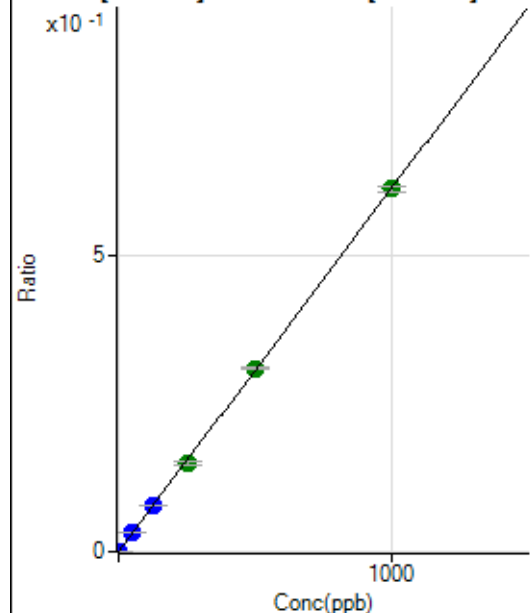
$$DL = 0.02681$$

$$BEC = 0.4161$$

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	161.12	0.0000	P	29.9
2	☐	2.000	1.952	21250.34	0.0012	P	2.2
3	☐	50.000	53.658	531740.51	0.0330	P	6.3
4	☐	125.000	127.923	1342148.48	0.0786	P	2.1
5	☐	250.000	243.925	2777442.77	0.1499	A	4.0
6	☐	500.000	504.186	5553732.29	0.3099	A	1.4
7	☐	1000.000	998.877	11077672.04	0.6139	A	1.7
8	☐			6768.51	0.0004	P	11.0

$$y = 6.1463\text{E-}004 * x + 9.5422\text{E-}006$$

$$R = 1.0000$$

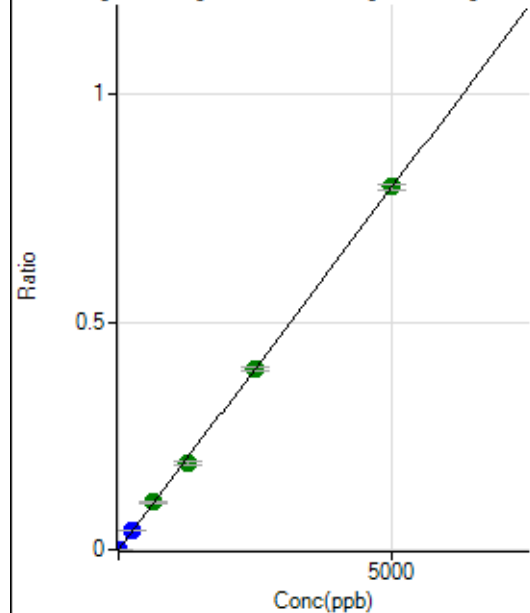
$$DL = 0.01395$$

$$BEC = 0.01553$$

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	91.67	0.0000	P	24.2
2	☐	10.000	9.497	26615.74	0.0015	P	2.1
3	☐	250.000	264.575	677744.54	0.0420	P	5.8
4	☐	625.000	651.967	1767808.22	0.1036	A	3.4
5	☐	1250.000	1200.389	3531888.84	0.1907	A	4.5
6	☐	2500.000	2492.267	7095469.08	0.3959	A	1.8
7	☐	5000.000	5012.170	14366225.14	0.7963	A	1.8
8	☐			6143.25	0.0004	P	7.7

$$y = 1.5887\text{E-}004 * x + 5.4413\text{E-}006$$

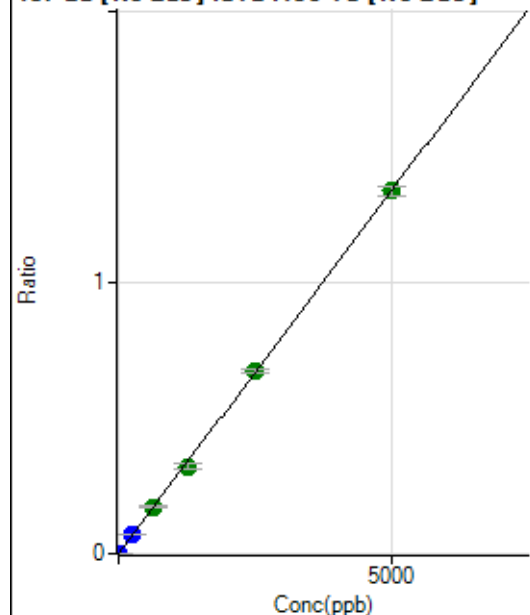
$$R = 0.9999$$

$$DL = 0.02485$$

$$BEC = 0.03425$$

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	202.79	0.0000	P	10.5
2	☐	10.000	9.513	44981.10	0.0026	P	2.1
3	☐	250.000	266.323	1149878.82	0.0713	P	6.7
4	☐	625.000	647.851	2961596.59	0.1735	A	0.7
5	☐	1250.000	1205.338	5978694.36	0.3228	A	4.9
6	☐	2500.000	2517.328	12080957.21	0.6741	A	1.9
7	☐	5000.000	4998.830	24151499.67	1.3387	A	2.3
8	☐			10507.11	0.0006	P	6.4

$$y = 2.6779E-004 * x + 1.2023E-005$$

R = 0.9999

DL = 0.01409

BEC = 0.0449

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	124.9
2	☐			11.11		P	91.7
3	☐			40.00		P	33.3
4	☐			115.56		P	46.6
5	☐			160.01		P	7.2
6	☐			291.12		P	20.7
7	☐			680.03		P	4.5
8	☐			71.11		P	35.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			1.11		P	173.2
4	☐			5.56		P	91.6
5	☐			12.22		P	15.7
6	☐			30.00		P	33.3
7	☐			63.33		P	13.9
8	☐			20.00		P	16.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	173.2
2	☐			22.22		P	57.3
3	☐			44.45		P	57.3
4	☐			61.11		P	34.3
5	☐			180.56		P	18.7
6	☐			250.01		P	17.6
7	☐			566.70		P	13.5
8	☐			1852.96		P	5.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	50.0
2	☐			7.78		P	65.5
3	☐			16.67		P	NaN
4	☐			31.11		P	30.9
5	☐			68.89		P	26.7
6	☐			100.00		P	17.6
7	☐			237.78		P	18.0
8	☐			935.60		P	3.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			130.56		P	24.2
2	☐			119.45		P	10.7
3	☐			100.00		P	30.0
4	☐			161.12		P	21.5
5	☐			258.34		P	16.1
6	☐			347.24		P	10.0
7	☐			611.14		P	4.4
8	☐			2027.99		P	2.3

160 Gd [He] No available calibration points

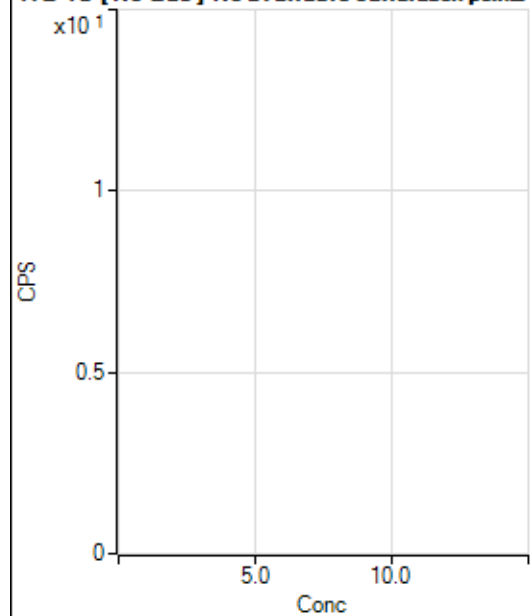
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			52.22		P	32.1
2	☐			37.78		P	13.5
3	☐			71.11		P	14.3
4	☐			82.22		P	12.4
5	☐			102.22		P	31.3
6	☐			148.89		P	4.7
7	☐			297.78		P	11.8
8	☐			1061.17		P	5.3

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			116.67		P	24.7
2	☐			80.56		P	6.0
3	☐			108.34		P	48.0
4	☐			133.34		P	39.0
5	☐			119.45		P	4.0
6	☐			122.23		P	14.2
7	☐			280.57		P	6.9
8	☐			405.58		P	26.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			35.56		P	14.3
2	☐			44.44		P	11.5
3	☐			50.00		P	24.0
4	☐			52.22		P	3.7
5	☐			61.11		P	15.7
6	☐			63.33		P	13.9
7	☐			123.34		P	0.0
8	☐			176.67		P	14.7

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.34		P	43.3
2	☐			30.56		P	78.7
3	☐			36.11		P	26.7
4	☐			30.56		P	31.5
5	☐			33.33		P	25.0
6	☐			52.78		P	89.8
7	☐			86.12		P	34.0
8	☐			144.45		P	14.5

172 Yb [He] No available calibration points

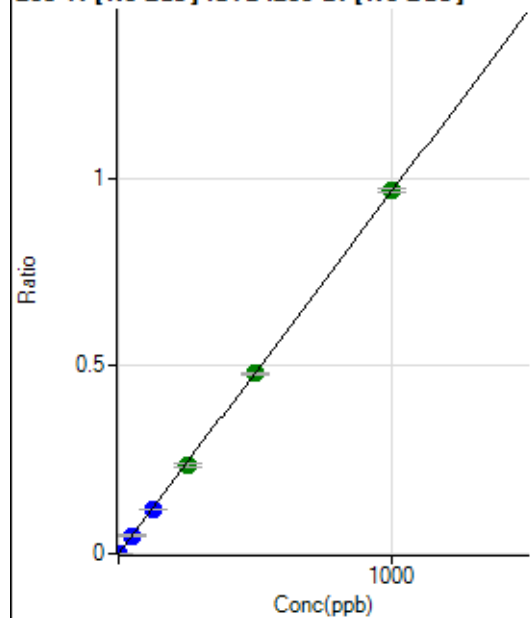
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	33.3
2	☐			29.63		P	21.7
3	☐			14.82		P	21.7
4	☐			22.22		P	25.0
5	☐			16.67		P	33.3
6	☐			24.07		P	58.1
7	☐			24.08		P	70.5
8	☐			46.30		P	38.6

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1752.95		P	6.5
2	☐			1933.52		P	8.5
3	☐			3392.21		P	2.1
4	☐			6398.95		P	4.5
5	☐			11435.90		P	3.0
6	☐			20507.96		P	1.5
7	☐			39521.08		P	3.0
8	☐			1950.21		P	5.6

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2654.02		P	5.3
2	☐			2342.85		P	5.3
3	☐			3098.56		P	4.8
4	☐			4578.66		P	6.0
5	☐			6751.86		P	1.6
6	☐			11319.86		P	0.7
7	☐			20234.32		P	1.2
8	☐			2189.11		P	7.9

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	816.72	0.0001	P	6.0
2	☐	1.000	0.923	8858.82	0.0010	P	3.6
3	☐	50.000	50.031	414499.77	0.0483	P	8.3
4	☐	125.000	120.261	1054681.33	0.1161	P	0.8
5	☐	250.000	246.579	2286617.19	0.2379	A	4.6
6	☐	500.000	497.273	4508843.94	0.4796	A	1.5
7	☐	1000.000	1002.810	9010250.98	0.9670	A	1.1
8	☐			2322.50	0.0003	P	9.0

$$y = 9.6425E-004 * x + 9.2184E-005$$

$$R = 1.0000$$

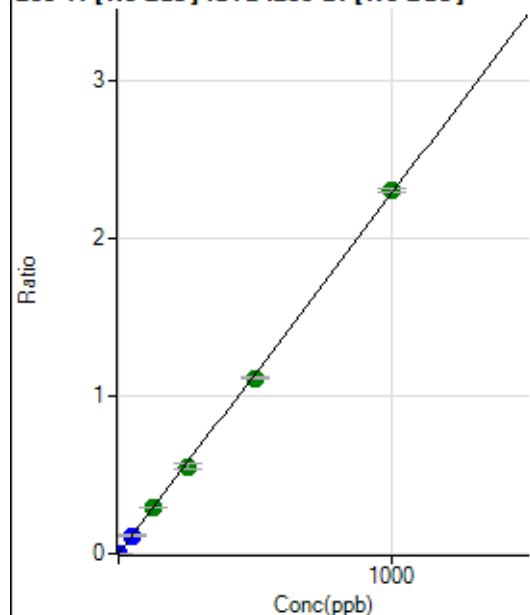
$$DL = 0.01723$$

$$BEC = 0.0956$$

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	1705.72	0.0002	P	6.9
2	☐	1.000	0.908	20405.48	0.0023	P	3.3
3	☐	50.000	50.506	988461.03	0.1153	P	8.3
4	☐	125.000	127.650	2645185.65	0.2911	A	1.5
5	☐	250.000	242.969	5323024.86	0.5539	A	5.4
6	☐	500.000	487.304	10441979.31	1.1106	A	0.9
7	☐	1000.000	1007.749	21397621.14	2.2966	A	1.0
8	☐			5479.09	0.0007	P	5.7

$$y = 0.0023 * x + 1.9253E-004$$

R = 0.9998

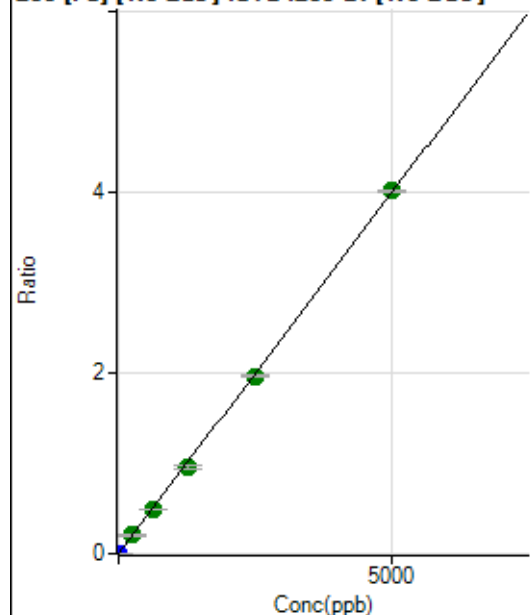
DL = 0.01758

BEC = 0.08449

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	1474.19	0.0002	P	9.5
2	☐	1.000	0.911	8050.80	0.0009	P	3.3
3	☐	250.000	258.351	1766930.19	0.2060	A	7.9
4	☐	625.000	621.863	4504840.96	0.4957	A	1.1
5	☐	1250.000	1194.323	9149113.51	0.9519	A	5.0
6	☐	2500.000	2463.935	18461047.17	1.9636	A	0.9
7	☐	5000.000	5031.926	37362486.02	4.0099	A	0.5
8	☐			15485.37	0.0020	P	3.4

$$y = 7.9685E-004 * x + 1.6654E-004$$

R = 0.9999

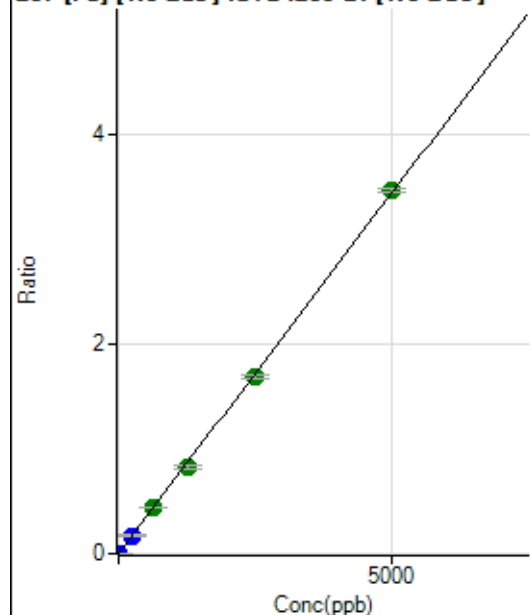
DL = 0.05944

BEC = 0.209

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	1203.78	0.0001	P	10.8
2	☐	1.000	0.932	6998.32	0.0008	P	4.4
3	☐	250.000	246.590	1454418.96	0.1695	P	6.7
4	☐	625.000	632.071	3946641.87	0.4343	A	1.1
5	☐	1250.000	1194.898	7888686.17	0.8208	A	5.5
6	☐	2500.000	2457.469	15870379.99	1.6880	A	1.4
7	☐	5000.000	5034.327	32219997.71	3.4579	A	1.0
8	☐			13570.31	0.0017	P	2.2

$$y = 6.8684E-004 * x + 1.3607E-004$$

R = 0.9999

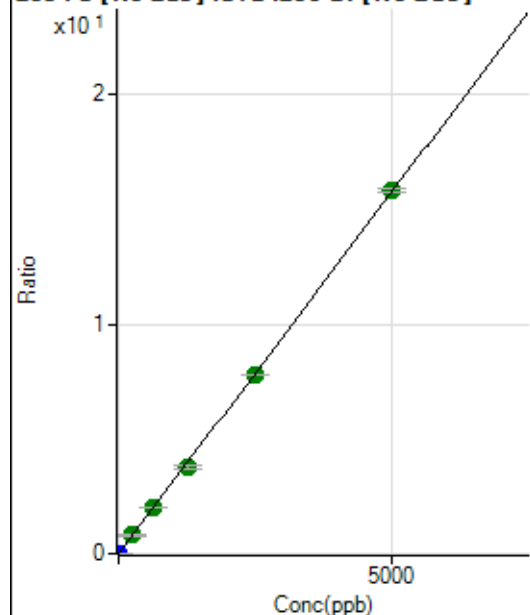
DL = 0.06396

BEC = 0.1981

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	5683.93	0.0006	P	3.4
2	☐	1.000	0.914	31693.39	0.0035	P	2.5
3	☐	250.000	259.246	6998158.87	0.8156	A	6.5
4	☐	625.000	628.675	17965300.40	1.9768	A	0.9
5	☐	1250.000	1205.768	36436851.04	3.7909	A	5.1
6	☐	2500.000	2473.274	73102580.34	7.7752	A	0.6
7	☐	5000.000	5023.499	147143872.5	15.7916	A	0.9
8	☐			61958.83	0.0079	P	3.2

$$y = 0.0031 * x + 6.4195E-004$$

R = 0.9999

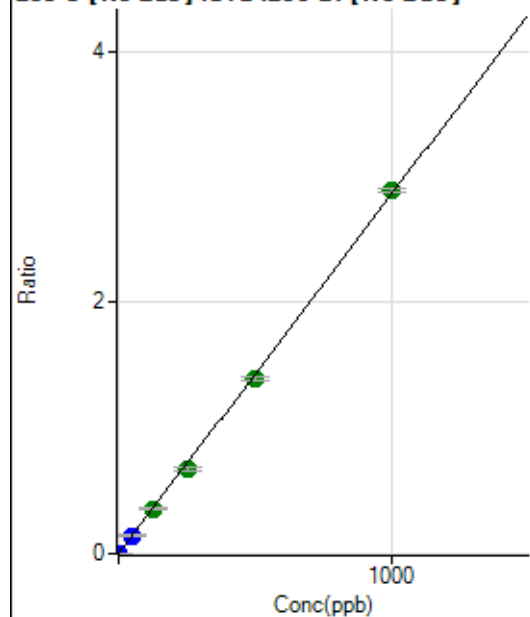
DL = 0.02058

BEC = 0.2042

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	111.11	0.0000	P	31.6
2	☐	1.000	0.897	23252.53	0.0026	P	4.3
3	☐	50.000	48.722	1194856.97	0.1394	P	9.0
4	☐	125.000	124.946	3248503.61	0.3574	A	3.2
5	☐	250.000	236.141	6495560.52	0.6755	A	3.7
6	☐	500.000	487.918	13122600.55	1.3958	A	1.6
7	☐	1000.000	1009.576	26913474.56	2.8881	A	1.1
8	☐			3867.38	0.0005	P	10.8

$$y = 0.0029 * x + 1.2573E-005$$

$$R = 0.9998$$

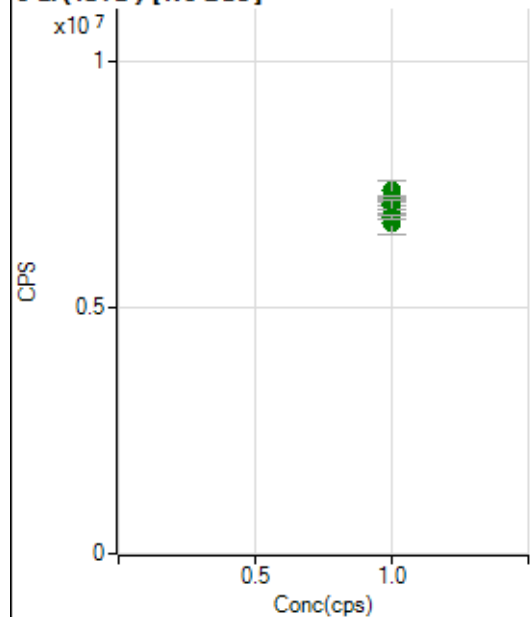
$$DL = 0.004166$$

$$BEC = 0.004395$$

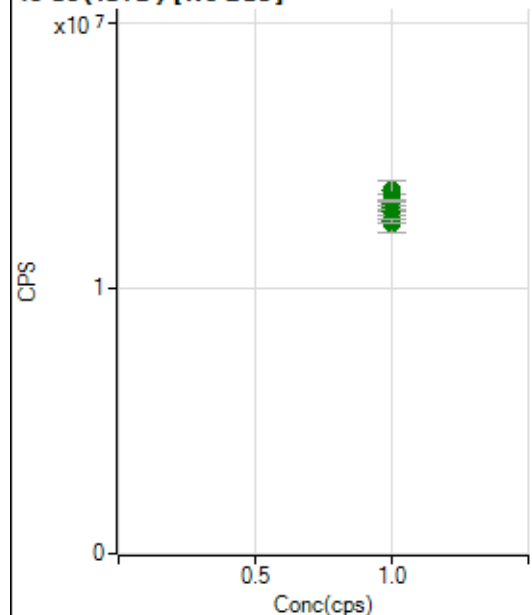
Weight: <None>

Min Conc: 0

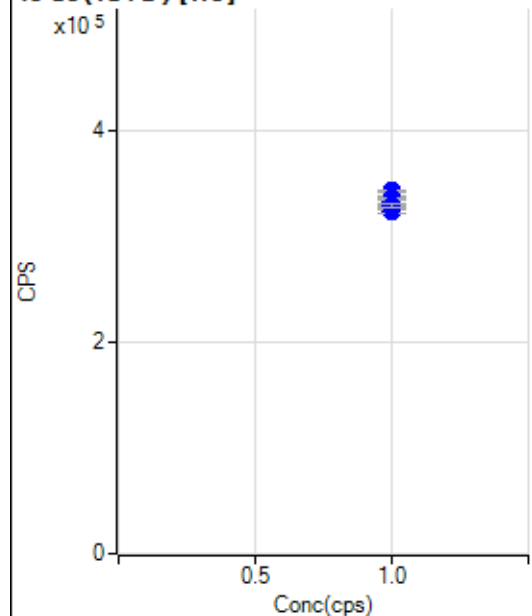
6 Li (ISTD) [No Gas]



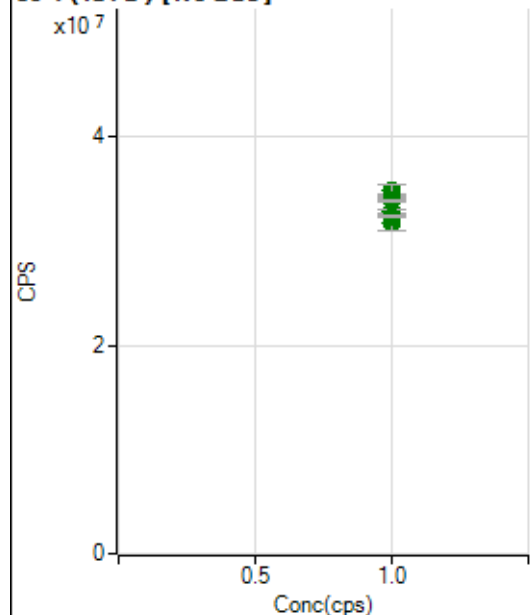
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6914044.71		A	0.2
2	☐	1.000		7266265.67		A	0.5
3	☐	1.000		6708722.78		A	6.2
4	☐	1.000		7102138.92		A	2.6
5	☐	1.000		7377769.95		A	5.5
6	☐	1.000		7181757.58		A	2.4
7	☐	1.000		7092206.99		A	3.0
8	☐	1.000		6840765.70		A	1.6

45 Sc (ISTD) [No Gas]

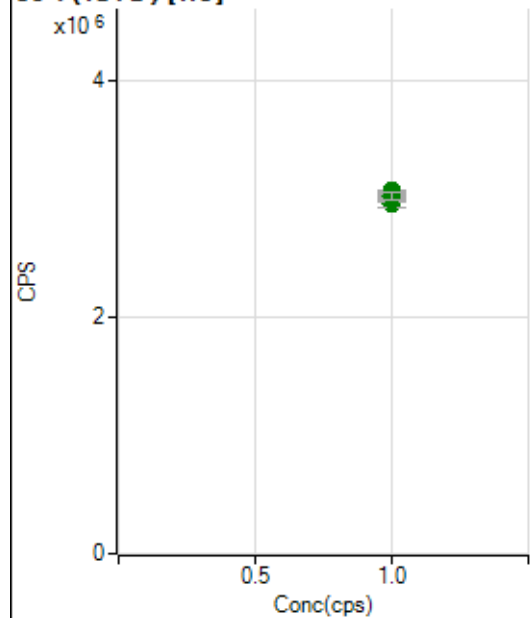
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		13037783.28		A	1.7
2	☐	1.000		13359968.55		A	3.4
3	☐	1.000		12447380.65		A	5.8
4	☐	1.000		12899695.50		A	1.7
5	☐	1.000		13692217.16		A	5.7
6	☐	1.000		13212571.47		A	1.7
7	☐	1.000		13323375.22		A	0.8
8	☐	1.000		12560327.17		A	1.1

45 Sc (ISTD) [He]

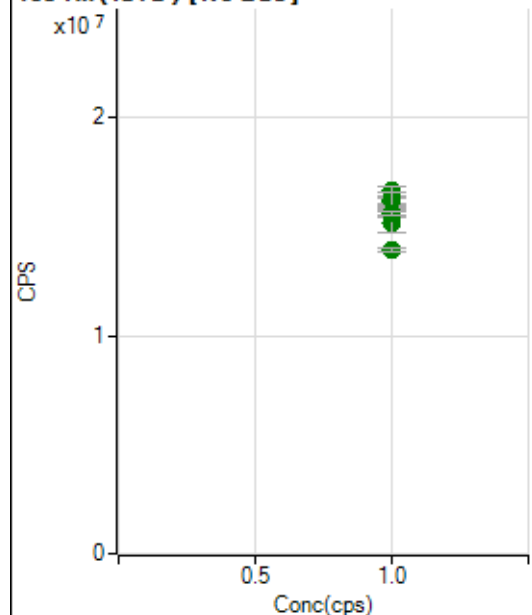
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		341251.69		P	1.5
2	☐	1.000		342987.62		P	0.3
3	☐	1.000		336815.59		P	1.0
4	☐	1.000		332702.00		P	1.4
5	☐	1.000		335368.94		P	0.6
6	☐	1.000		323759.91		P	1.4
7	☐	1.000		327543.36		P	1.3
8	☐	1.000		328354.37		P	1.2

89 Y (ISTD) [No Gas]

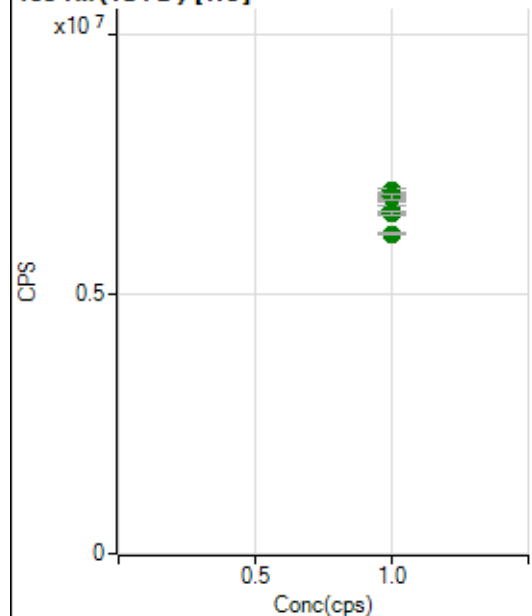
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		32872574.51		A	1.2
2	☐	1.000		34497955.04		A	0.7
3	☐	1.000		31796944.53		A	4.8
4	☐	1.000		32801138.40		A	1.7
5	☐	1.000		34855635.04		A	3.7
6	☐	1.000		34034391.71		A	1.2
7	☐	1.000		33918284.77		A	0.5
8	☐	1.000		32416771.74		A	0.5

89 Y (ISTD) [He]

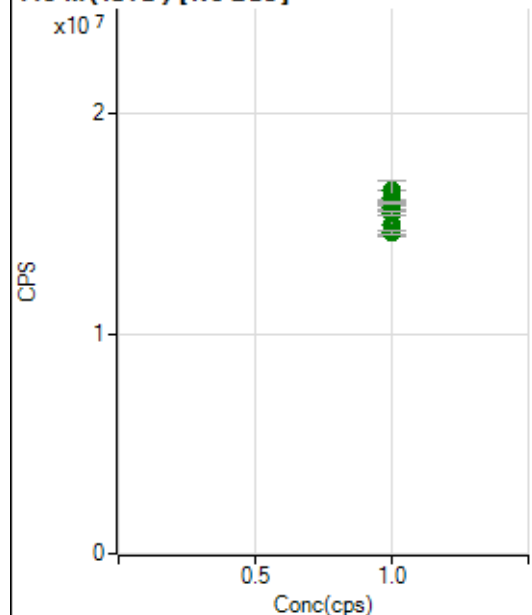
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3041873.29		A	1.8
2	☐	1.000		3071803.42		A	0.5
3	☐	1.000		3057482.07		A	0.8
4	☐	1.000		3032223.91		A	0.7
5	☐	1.000		3029499.50		A	1.4
6	☐	1.000		2966015.86		A	2.1
7	☐	1.000		2991024.26		A	1.3
8	☐	1.000		3026098.11		A	2.2

103 Rh (ISTD) [No Gas]

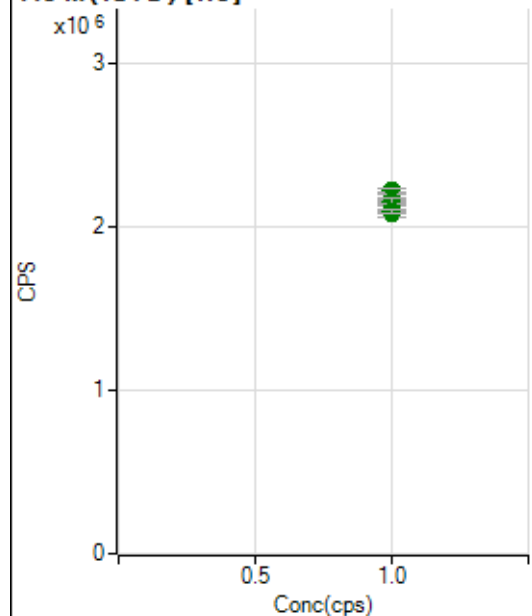
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16180626.58		A	1.2
2	☐	1.000		16645335.79		A	3.0
3	☐	1.000		15158639.92		A	5.2
4	☐	1.000		15913381.61		A	0.4
5	☐	1.000		16234712.34		A	4.5
6	☐	1.000		15623988.20		A	1.8
7	☐	1.000		15627223.27		A	0.9
8	☐	1.000		13965062.47		A	1.1

103 Rh (ISTD) [He]

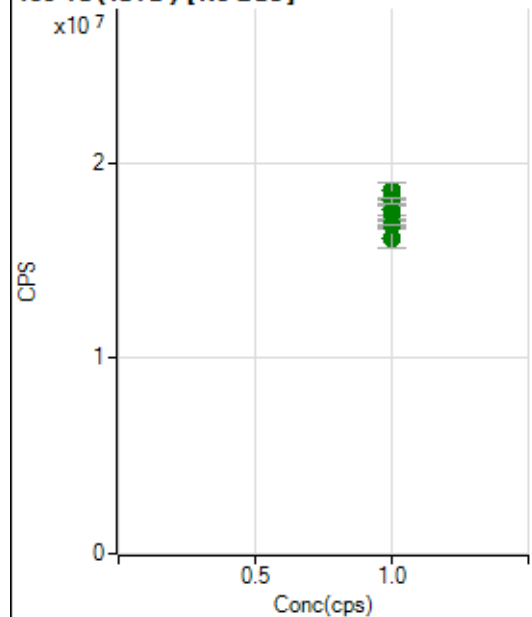
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6872423.79		A	1.0
2	☐	1.000		6997271.36		A	1.4
3	☐	1.000		6903572.95		A	1.4
4	☐	1.000		6894372.33		A	2.7
5	☐	1.000		6886093.65		A	1.6
6	☐	1.000		6635879.28		A	2.2
7	☐	1.000		6561877.47		A	1.1
8	☐	1.000		6163210.19		A	0.8

115 In (ISTD) [No Gas]

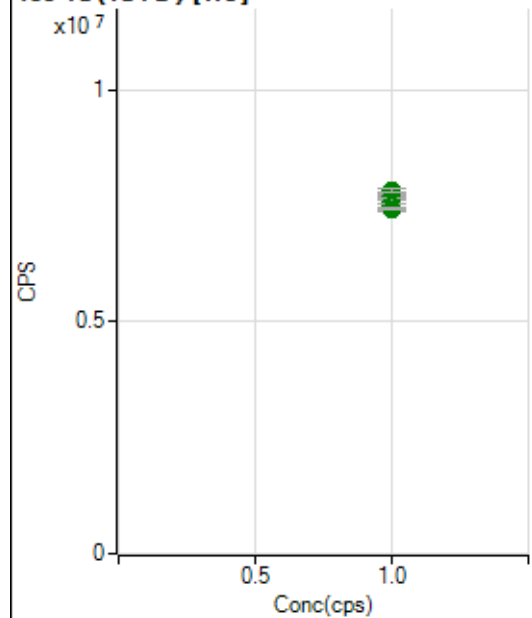
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		15749617.71		A	1.1
2	☐	1.000		16148917.37		A	4.3
3	☐	1.000		14922777.63		A	6.6
4	☐	1.000		15474386.53		A	1.0
5	☐	1.000		16479148.44		A	5.5
6	☐	1.000		16017201.10		A	0.4
7	☐	1.000		15949607.32		A	0.7
8	☐	1.000		14601769.62		A	1.2

115 In (ISTD) [He]

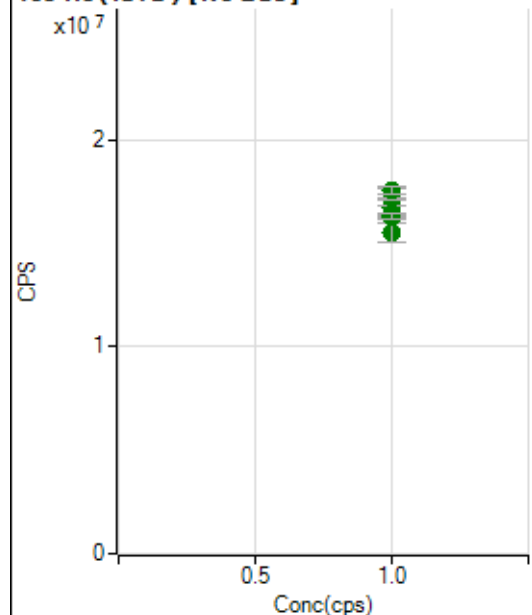
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2182104.27		A	1.4
2	☐	1.000		2220352.01		A	1.2
3	☐	1.000		2174415.25		A	2.4
4	☐	1.000		2154900.29		A	2.5
5	☐	1.000		2156912.07		A	1.6
6	☐	1.000		2079353.92		A	1.6
7	☐	1.000		2090296.52		A	0.7
8	☐	1.000		2095389.75		A	1.0

159 Tb (ISTD) [No Gas]

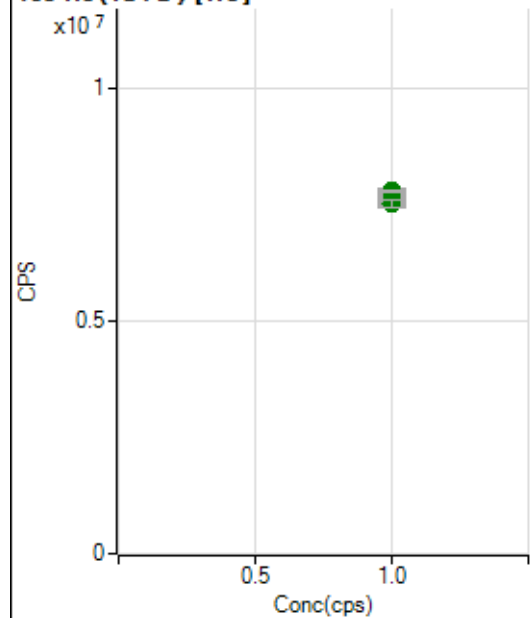
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16849782.11		A	2.1
2	☐	1.000		17581517.66		A	2.8
3	☐	1.000		16160095.45		A	6.2
4	☐	1.000		17070260.85		A	0.9
5	☐	1.000		18545572.78		A	4.6
6	☐	1.000		17923598.90		A	1.5
7	☐	1.000		18045092.51		A	1.5
8	☐	1.000		16807557.67		A	0.3

159 Tb (ISTD) [He]

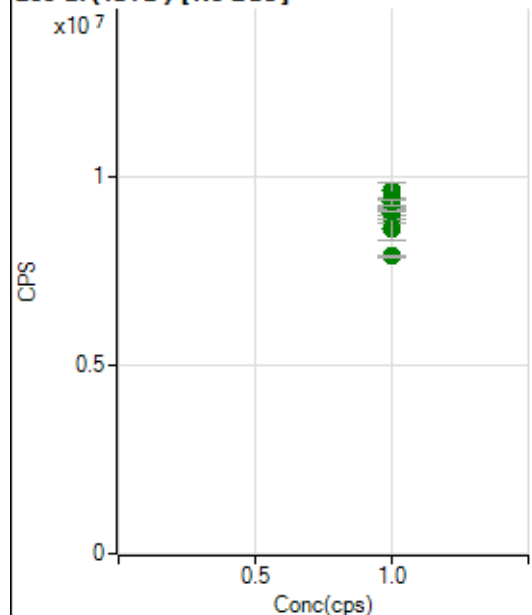
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7428545.86		A	0.8
2	☐	1.000		7471113.71		A	2.3
3	☐	1.000		7500086.42		A	1.3
4	☐	1.000		7564205.72		A	3.3
5	☐	1.000		7690625.72		A	1.3
6	☐	1.000		7600745.51		A	1.9
7	☐	1.000		7815014.05		A	1.0
8	☐	1.000		7433625.10		A	0.8

165 Ho (ISTD) [No Gas]

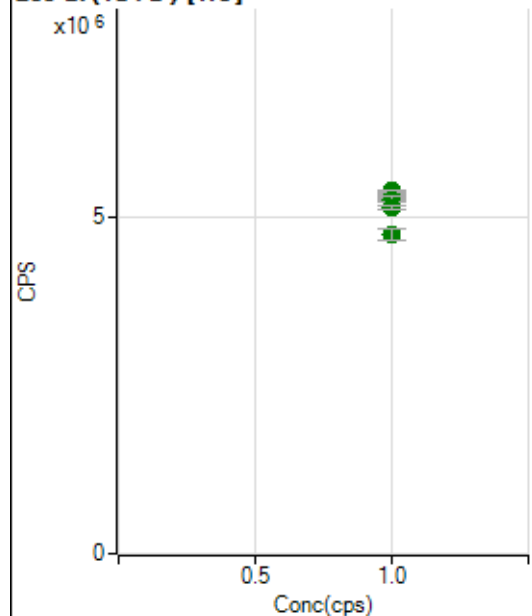
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16348873.46		A	0.4
2	☐	1.000		16673887.35		A	5.7
3	☐	1.000		15506898.44		A	5.7
4	☐	1.000		16336122.07		A	0.7
5	☐	1.000		17215931.29		A	5.0
6	☐	1.000		17138852.81		A	0.9
7	☐	1.000		17521410.11		A	2.2
8	☐	1.000		16287827.28		A	1.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7561402.18		A	0.8
2	☐	1.000		7533171.48		A	1.4
3	☐	1.000		7647978.64		A	0.9
4	☐	1.000		7628060.09		A	0.9
5	☐	1.000		7803928.36		A	1.3
6	☐	1.000		7579270.51		A	0.4
7	☐	1.000		7808872.59		A	0.3
8	☐	1.000		7527248.36		A	2.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		8858425.28		A	2.2
2	☐	1.000		9024385.15		A	3.2
3	☐	1.000		8604547.31		A	6.4
4	☐	1.000		9087989.73		A	0.5
5	☐	1.000		9625212.50		A	4.2
6	☐	1.000		9402306.32		A	0.8
7	☐	1.000		9317990.77		A	1.6
8	☐	1.000		7886888.84		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		5261278.11		A	0.8
2	☐	1.000		5296771.76		A	1.3
3	☐	1.000		5269333.50		A	1.1
4	☐	1.000		5318099.43		A	1.8
5	☐	1.000		5391714.92		A	0.7
6	☐	1.000		5262506.83		A	1.6
7	☐	1.000		5133988.64		A	1.0
8	☐	1.000		4744149.82		A	3.0

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8100221MS.b

Acq. Date-Time 2021-10-02 15:43:37

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		17572	175722.21			1.692	5.000
24		161925	1619250.28			1.318	5.000
25		21600	215997.76			1.137	5.000
26		24904	249044.73			1.203	5.000
59		41320	413196.16			1.299	5.000
113		16330	163300.24			1.417	5.000
115		51354	513542.88			1.304	5.000
206		18054	180541.07			1.604	5.000
207		15021	150208.03			1.629	5.000
208		37925	379249.78			1.182	5.000
220		1	5.40			25.693	

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

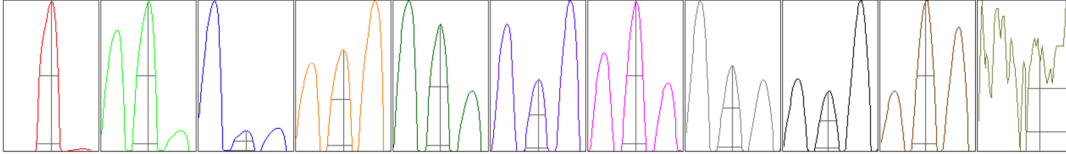
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17649	17233	17451	17495	18033
24	165673	161324	160358	161370	160901
25	21643	21322	21677	21410	21947
26	25086	24497	24840	24811	25289
59	41588	40419	41382	41377	41832
113	16207	16058	16529	16246	16610
115	51797	50454	51335	51012	52173
206	18115	17619	18300	17927	18310
207	14969	14661	15164	14995	15314
208	37809	37315	38235	37790	38476

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	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	32311.29	9.05	8.90 - 9.10	
24	288858.88	24.00	23.90 - 24.10	
25	38171.12	25.05	24.90 - 25.10	
26	43775.56	26.05	25.90 - 26.10	
59	78388.06	59.00	58.90 - 59.10	
113	32788.65	113.05	112.90 - 113.10	
115	105849.65	115.05	114.90 - 115.10	
206	35482.15	206.00	205.90 - 206.10	
207	29323.83	206.95	206.90 - 207.10	
208	73282.00	207.95	207.90 - 208.10	
220	0.60	220.50	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.739	0.900	
24	0.59	0.783	0.900	
25	0.60	0.778	0.900	
26	0.59	0.783	0.900	
59	0.56	0.737	0.900	
113	0.51	0.699	0.900	
115	0.50	0.754	0.900	
206	0.52	0.773	0.900	
207	0.52	0.776	0.900	
208	0.53	0.780	0.900	
220	1.35	1.423		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.75 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	15.2 V
Extract 2	-190.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.8 mm
---------	--------	---------	---------

EM

Discriminator	4.0 mV	Analog HV	2241 V	Pulse HV	1520 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		7855	78552.63			1.108	
89		25467	254671.22			1.806	
205		18638	186379.35			2.071	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	7765	7846	7989	7796	7881
89	25026	25346	26190	25163	25610
205	18281	18269	19194	18656	18789

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.7 V	Deflect	5.6 V
-----------	--------	------------	-------	---------	-------

US EPA Tune Check Report

Extract 2	-190.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 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	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	1.0 mm	Torch V	-0.8 mm		
EM					
Discriminator	4.0 mV	Analog HV	2241 V	Pulse HV	1520 V