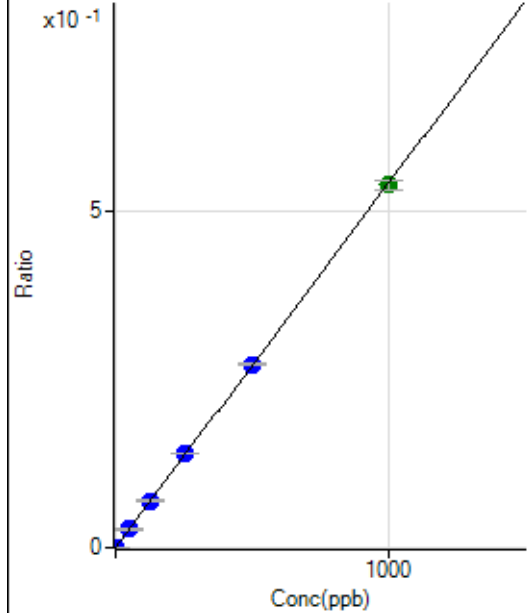


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7112122-MS.b\
Analysis File: P7112122-MS.batch.bin
DA Date-Time: 2022-11-21 17:43:59
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-11-21 15:30:30
2	005CALS.d	S02	2022-11-21 15:33:22
3	006CALS.d	S03	2022-11-21 15:36:15
4	007CALS.d	S04	2022-11-21 15:38:59
5	008CALS.d	S05	2022-11-21 15:41:46
6	009CALS.d	S06	2022-11-21 15:44:45
7	010CALS.d	S07	2022-11-21 15:47:31
8	011CALS.d	S08	2022-11-21 15:50:16

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	106.67	0.0000	P	16.7
2	☐	1.000	1.087	2252.41	0.0006	P	4.3
3	☐	50.000	50.589	104180.27	0.0274	P	4.4
4	☐	125.000	129.022	257816.97	0.0699	P	2.8
5	☐	250.000	258.318	514836.38	0.1400	P	1.8
6	☐	500.000	503.400	1004350.45	0.2728	P	1.2
7	☐	1000.000	995.688	1936751.76	0.5395	A	2.4
8	☐			831.14	0.0002	P	8.5

$$y = 5.4179\text{E-}004 * x + 2.8110\text{E-}005$$

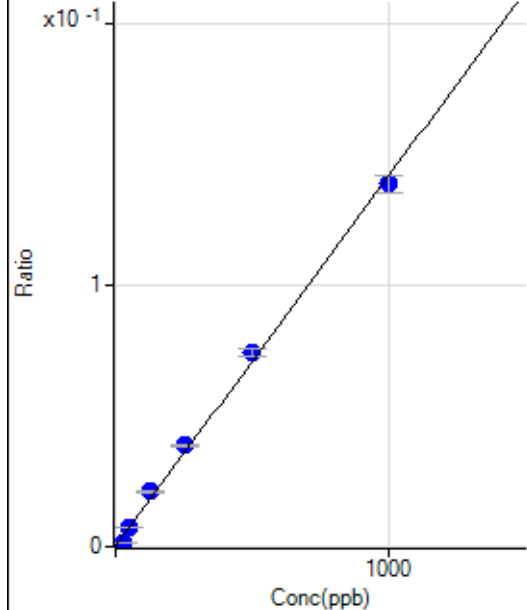
$$R = 0.9999$$

$$DL = 0.02598$$

$$BEC = 0.05188$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	444.46	0.0001	P	7.0
2	☐	25.000	11.808	6518.17	0.0018	P	1.6
3	☐	50.000	50.652	27622.53	0.0073	P	6.2
4	☐	125.000	147.342	77187.01	0.0209	P	4.6
5	☐	250.000	273.231	142494.12	0.0387	P	2.0
6	☐	500.000	524.890	273550.46	0.0743	P	4.0
7	☐	1000.000	979.252	497190.49	0.1385	P	4.5
8	☐			21774.01	0.0065	P	8.7

$$y = 1.4130\text{E-}004 * x + 1.1698\text{E-}004$$

$$R = 0.9987$$

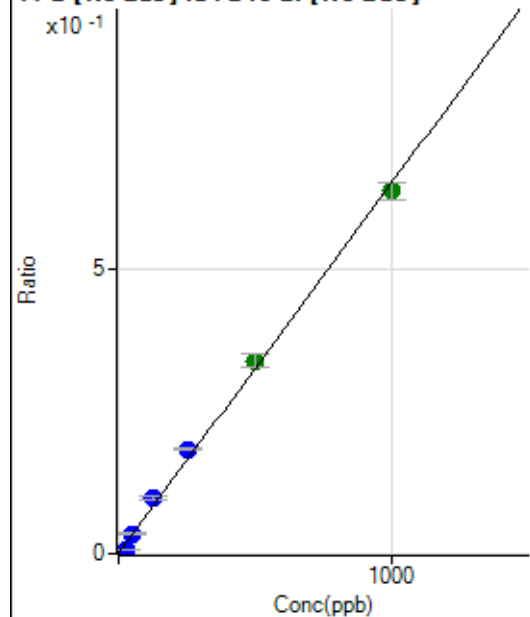
$$DL = 0.1733$$

$$BEC = 0.8279$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2397.47	0.0006	P	5.5
2	☐	25.000	11.782	30213.34	0.0083	P	2.8
3	☐	50.000	52.233	131060.01	0.0345	P	6.6
4	☐	125.000	151.375	364280.45	0.0988	P	5.9
5	☐	250.000	280.977	672910.56	0.1829	P	1.0
6	☐	500.000	520.427	1245412.01	0.3382	A	6.4
7	☐	1000.000	978.964	2281985.05	0.6356	A	5.1
8	☐			104963.93	0.0315	P	8.2

$$y = 6.4858E-004 * x + 6.3221E-004$$

$$R = 0.9986$$

$$DL = 0.1619$$

$$BEC = 0.9748$$

Weight: <None>

Min Conc: 0

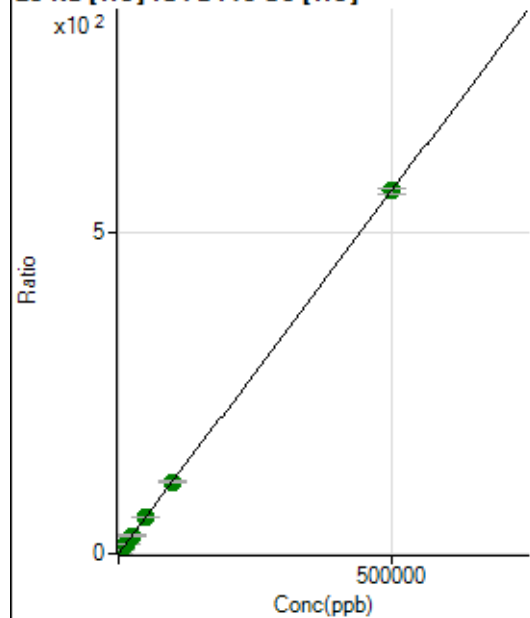
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	21735.94	0.0307	P	1.5
2	☐	500.000	511.174	426308.90	0.6064	P	0.4
3	☐	5000.000	5073.530	4051500.12	5.7448	A	0.7
4	☐	12500.000	12679.165	9641965.84	14.3106	A	3.5
5	☐	25000.000	25137.822	18605039.77	28.3422	A	1.8
6	☐	50000.000	51363.633	37716814.27	57.8790	A	1.1
7	☐	100000.00	99105.247	74156815.54	111.6480	A	0.9
8	☐	500000.00	500030.47	374886508.3	563.1901	A	1.3

$$y = 0.0011 * x + 0.0307$$

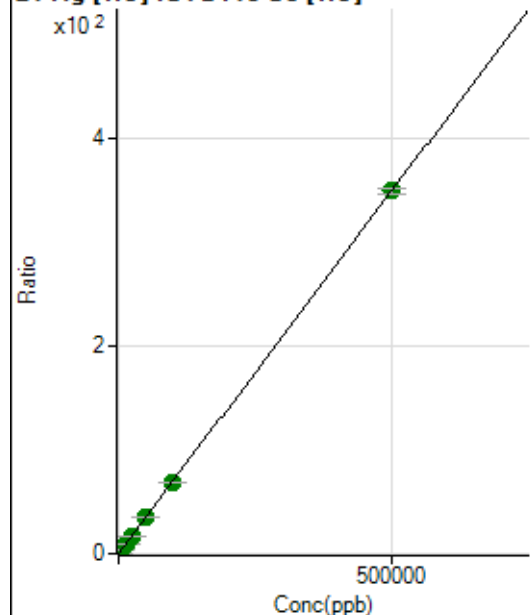
$$R = 1.0000$$

$$DL = 1.215$$

$$BEC = 27.27$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	607.43	0.0009	P	8.2
2	☐	500.000	506.708	249048.62	0.3543	P	1.0
3	☐	5000.000	5073.557	2496331.57	3.5395	A	0.3
4	☐	12500.000	12712.641	5975398.92	8.8676	A	2.9
5	☐	25000.000	25120.578	11503360.79	17.5219	A	0.5
6	☐	50000.000	50473.161	22940727.37	35.2047	A	1.5
7	☐	100000.00	97467.683	45154857.03	67.9823	A	0.9
8	☐	500000.00	500447.06	232354544.0	349.0511	A	1.3

$$y = 6.9748\text{E-}004 * x + 8.5775\text{E-}004$$

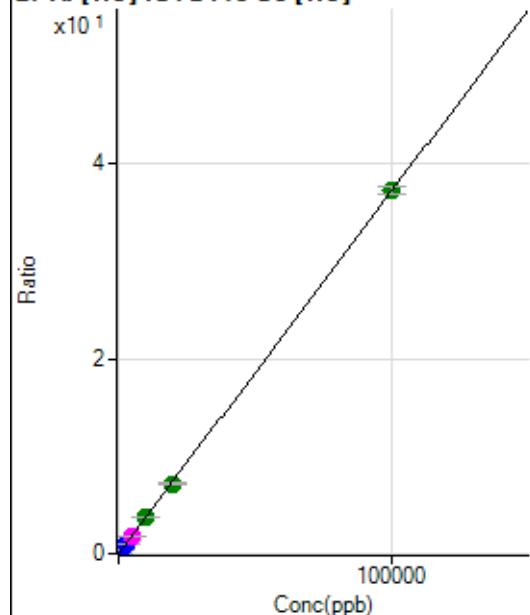
$$R = 1.0000$$

$$DL = 0.3039$$

$$BEC = 1.23$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	268.52	0.0004	P	4.1
2	☐	20.000	20.088	5519.61	0.0079	P	1.3
3	☐	1000.000	1024.594	269056.87	0.3815	P	0.3
4	☐	2500.000	2548.216	638838.06	0.9482	P	3.9
5	☐	5000.000	4984.784	1217482.84	1.8546	M	1.1
6	☐	10000.000	10112.600	2451597.71	3.7620	A	0.5
7	☐	20000.000	19312.145	4771710.70	7.1840	A	0.9
8	☐	100000.00	100125.62	24790601.94	37.2444	A	2.1

$$y = 3.7197\text{E-}004 * x + 3.7927\text{E-}004$$

$$R = 1.0000$$

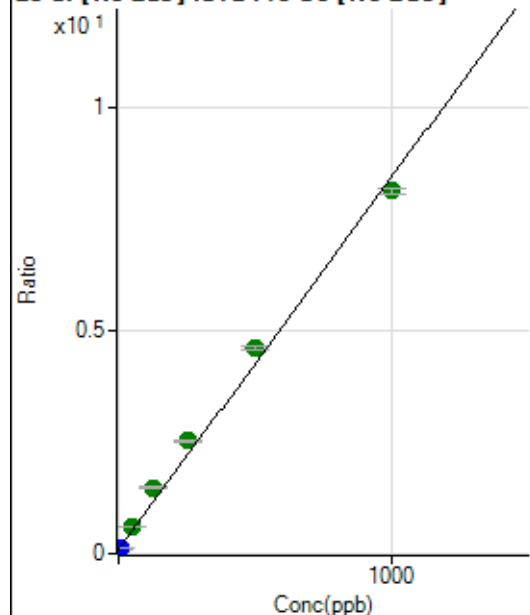
$$DL = 0.1265$$

$$BEC = 1.02$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	835086.46	0.0940	P	3.0
2	☐	10.000	2.018	920793.76	0.1109	P	3.3
3	☐	50.000	58.897	5121023.99	0.5858	A	0.5
4	☐	125.000	165.584	12192715.38	1.4765	A	2.8
5	☐	250.000	292.873	20463048.72	2.5392	A	1.6
6	☐	500.000	540.203	37585487.99	4.6041	A	2.3
7	☐	1000.000	963.742	66961253.58	8.1402	A	1.7
8	☐			1579090.27	0.2038	A	1.5

$$y = 0.0083 * x + 0.0940$$

$$R = 0.9969$$

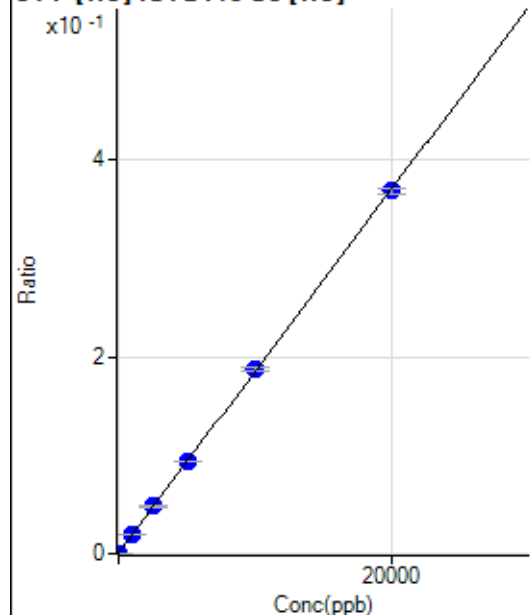
$$DL = 1.003$$

$$BEC = 11.26$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-7.471	344.46	0.0005	P	6.5
2	☐	0.000	7.471	536.13	0.0008	P	13.3
3	☐	1000.000	1040.314	13995.60	0.0198	P	3.6
4	☐	2500.000	2557.714	32262.37	0.0479	P	3.6
5	☐	5000.000	5045.887	61613.35	0.0939	P	0.9
6	☐	10000.000	10140.069	122490.42	0.1880	P	1.9
7	☐	20000.000	19909.264	244742.31	0.3685	P	1.4
8	☐			422.24	0.0006	P	13.6

$$y = 1.8476E-005 * x + 6.2443E-004$$

$$R = 1.0000$$

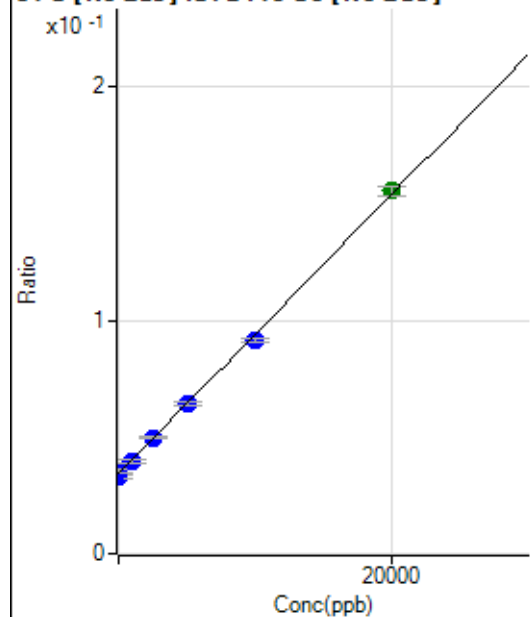
$$DL = 10.82$$

$$BEC = 33.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-186.227	293947.44	0.0331	P	3.6
2	☐	0.000	186.227	293382.28	0.0353	P	3.8
3	☐	1000.000	900.738	346256.61	0.0396	P	2.7
4	☐	2500.000	2577.068	410092.57	0.0497	P	0.8
5	☐	5000.000	4985.885	516295.29	0.0641	P	2.6
6	☐	10000.000	9539.887	745707.94	0.0913	P	1.8
7	☐	20000.000	20228.915	1278008.86	0.1554	A	2.4
8	☐			264840.21	0.0342	P	2.6

$$y = 5.9879\text{E-}006 * x + 0.0342$$

R = 0.9995

DL = 631.7

BEC = 5716

Weight: <None>

Min Conc: 0

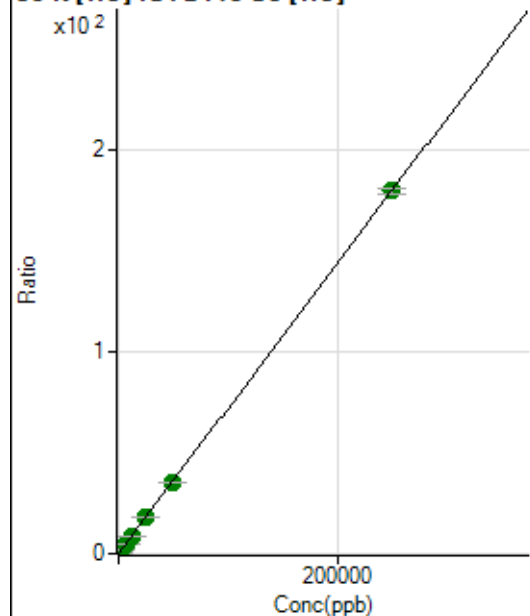
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	75925.69	0.1073	P	3.1
2	☐	500.000	540.672	347628.46	0.4945	P	0.6
3	☐	2500.000	2522.257	1349582.11	1.9136	A	1.0
4	☐	6250.000	6223.590	3075862.37	4.5644	A	2.6
5	☐	12500.000	12246.881	5828291.62	8.8781	A	0.9
6	☐	25000.000	25074.881	11772059.90	18.0650	A	1.4
7	☐	50000.000	48572.999	23176519.79	34.8935	A	0.8
8	☐	250000.00	250290.92	119383274.8	179.3563	A	1.8

$$y = 7.1616\text{E-}004 * x + 0.1073$$

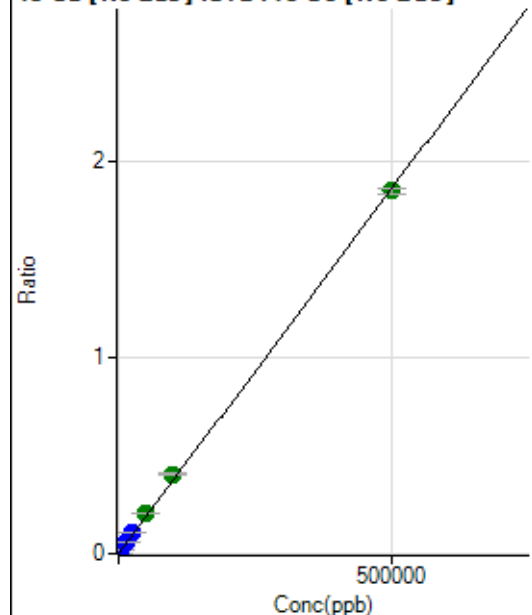
$$R = 1.0000$$

$$DL = 14.12$$

$$BEC = 149.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	250.01	0.0000	P	9.2
2	☐	500.000	530.553	16628.92	0.0020	P	1.6
3	☐	5000.000	5836.880	190087.57	0.0217	P	0.8
4	☐	12500.000	14893.760	457795.62	0.0554	P	1.7
5	☐	25000.000	29687.983	890131.60	0.1105	P	2.2
6	☐	50000.000	55225.098	1677348.09	0.2055	A	2.6
7	☐	100000.00	109218.67	3342231.97	0.4063	A	1.7
8	☐	500000.00	497331.11	14335171.15	1.8501	A	1.8

$$y = 3.7201\text{E-}006 * x + 2.8188\text{E-}005$$

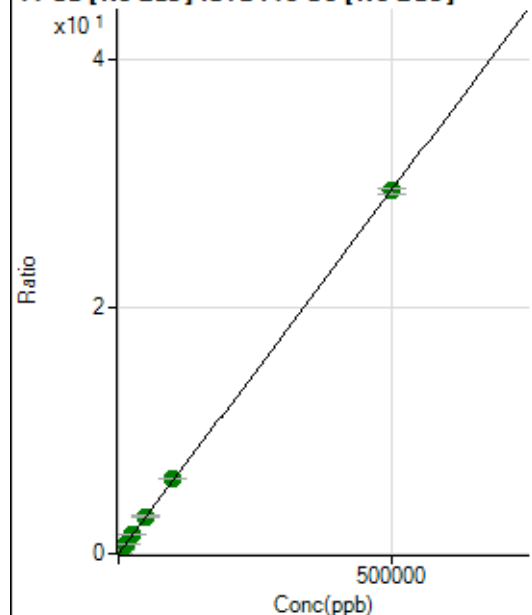
$$R = 0.9998$$

$$DL = 2.097$$

$$BEC = 7.577$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8383.09	0.0009	P	5.2
2	☐	500.000	533.086	268595.38	0.0323	P	0.5
3	☐	5000.000	5170.132	2669566.68	0.3053	A	1.7
4	☐	12500.000	13265.681	6457039.21	0.7819	A	2.1
5	☐	25000.000	26419.543	12543651.24	1.5563	A	0.7
6	☐	50000.000	51485.929	24751273.12	3.0319	A	3.1
7	☐	100000.00	102709.83	49748481.32	6.0475	A	0.6
8	☐	500000.00	499217.58	227717232.8	29.3900	A	1.5

$$y = 5.8870\text{E-}005 * x + 9.4403\text{E-}004$$

$$R = 1.0000$$

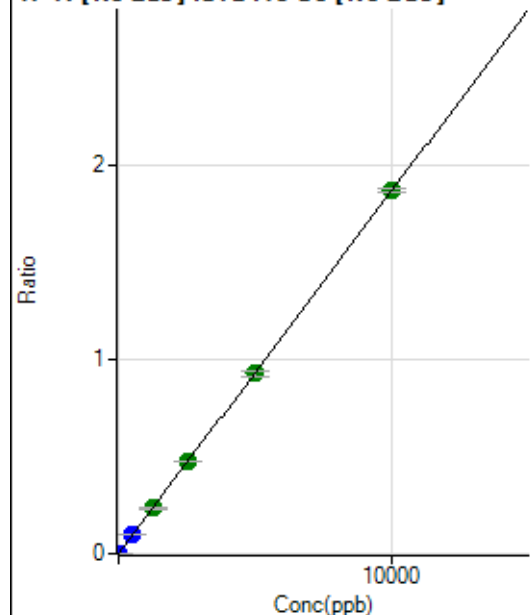
$$DL = 2.508$$

$$BEC = 16.04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	127.78	0.0000	P	61.3
2	☐	5.000	4.585	7238.01	0.0009	P	3.0
3	☐	500.000	511.354	835975.52	0.0956	P	1.6
4	☐	1250.000	1262.954	1949815.56	0.2361	A	2.8
5	☐	2500.000	2538.165	3824171.57	0.4745	A	1.1
6	☐	5000.000	4966.171	7578822.92	0.9284	A	3.0
7	☐	10000.000	10005.187	15387582.98	1.8704	A	0.9
8	☐			4456.33	0.0006	P	4.6

$$y = 1.8694\text{E-}004 * x + 1.4376\text{E-}005$$

$$R = 1.0000$$

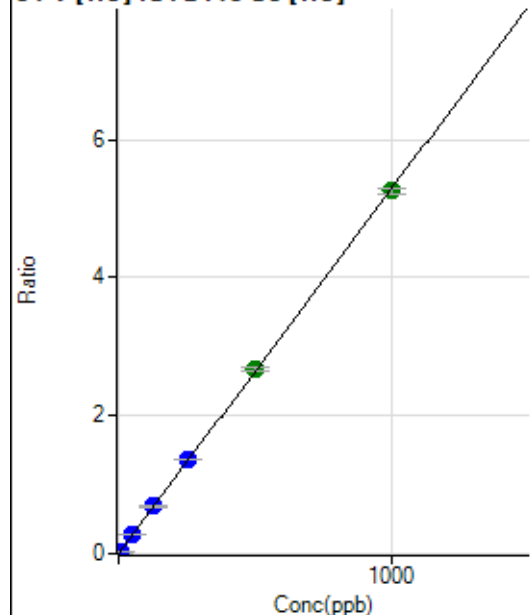
$$DL = 0.1413$$

$$BEC = 0.0769$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	13.33	0.0000	P	44.2
2	☐	5.000	5.226	19431.47	0.0276	P	0.4
3	☐	50.000	52.077	194157.69	0.2753	P	1.0
4	☐	125.000	129.876	462554.49	0.6865	P	3.4
5	☐	250.000	256.857	891350.04	1.3577	P	0.5
6	☐	500.000	506.195	1743620.06	2.6757	A	2.1
7	☐	1000.000	994.474	3491249.18	5.2566	A	1.6
8	☐			1310.07	0.0020	P	3.0

$$y = 0.0053 * x + 1.8884\text{E-}005$$

$$R = 0.9999$$

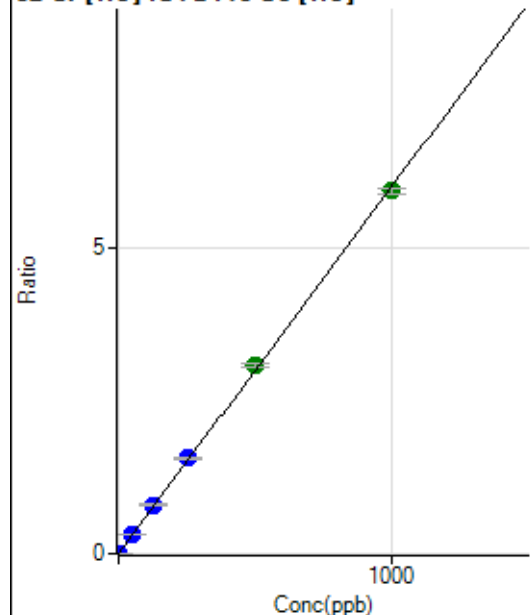
$$DL = 0.004739$$

$$BEC = 0.003572$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1361.19	0.0019	P	3.5
2	☐	2.000	2.113	10256.90	0.0146	P	2.2
3	☐	50.000	53.297	226654.63	0.3214	P	1.0
4	☐	125.000	131.862	533808.79	0.7923	P	3.5
5	☐	250.000	260.160	1024980.59	1.5613	P	0.9
6	☐	500.000	514.316	2010020.86	3.0847	A	2.3
7	☐	1000.000	989.279	3939643.41	5.9316	A	1.4
8	☐			33391.42	0.0502	P	0.6

$$y = 0.0060 * x + 0.0019$$

$$R = 0.9998$$

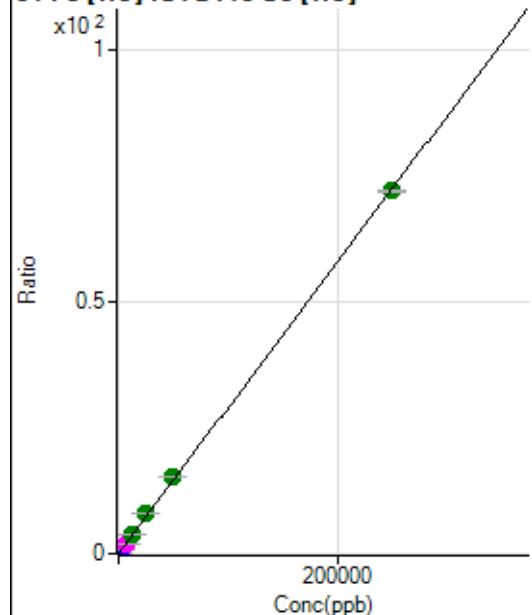
$$DL = 0.03417$$

$$BEC = 0.3209$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2245.82	0.0032	P	5.3
2	☐	50.000	55.380	13473.24	0.0192	P	0.2
3	☐	2500.000	2893.360	591448.86	0.8386	P	0.6
4	☐	6250.000	6872.073	1338820.92	1.9875	M	5.5
5	☐	12500.000	13417.294	2545210.43	3.8774	A	2.2
6	☐	25000.000	27335.005	5145602.92	7.8962	A	1.0
7	☐	50000.000	52517.884	10074137.74	15.1678	A	1.3
8	☐	250000.00	249197.57	47901019.75	71.9594	A	0.7

$$y = 2.8875E-004 * x + 0.0032$$

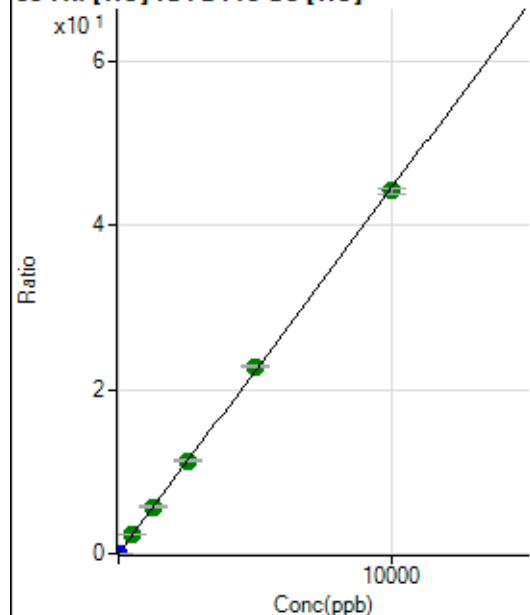
$$R = 0.9999$$

$$DL = 1.754$$

$$BEC = 10.99$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	203.34	0.0003	P	9.4
2	☐	1.000	1.179	3891.65	0.0055	P	3.6
3	☐	500.000	515.173	1616801.33	2.2925	A	1.0
4	☐	1250.000	1278.720	3833281.44	5.6899	A	4.0
5	☐	2500.000	2546.634	7439081.83	11.3315	A	0.8
6	☐	5000.000	5124.050	14857321.17	22.7997	A	1.2
7	☐	10000.000	9921.968	29322269.29	44.1479	A	1.3
8	☐			39527.38	0.0594	P	0.6

$$y = 0.0044 * x + 2.8750E-004$$

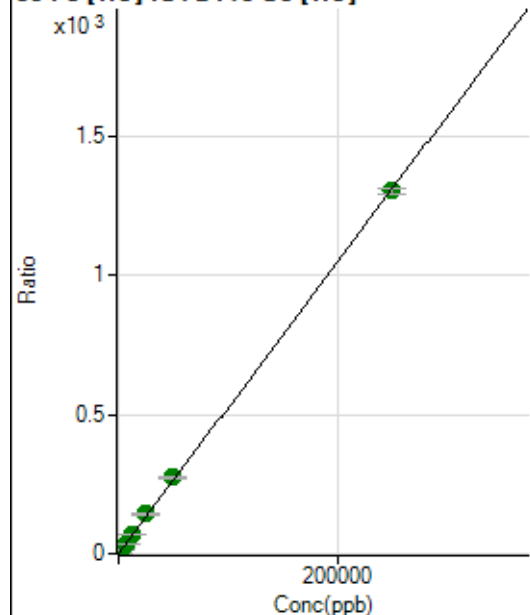
$$R = 0.9999$$

$$DL = 0.0182$$

$$BEC = 0.06461$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12801.91	0.0181	P	2.8
2	☐	50.000	56.093	219243.43	0.3119	P	0.4
3	☐	2500.000	2709.502	10020877.65	14.2087	A	0.5
4	☐	6250.000	6723.465	23734662.80	35.2313	A	4.0
5	☐	12500.000	13392.577	46060332.05	70.1599	A	0.7
6	☐	25000.000	27123.251	92582392.81	142.0724	A	0.9
7	☐	50000.000	52267.260	181833900.3	273.7607	A	0.8
8	☐	250000.00	249275.66	869036989.7	1,305.565	A	1.3

$$y = 0.0052 * x + 0.0181$$

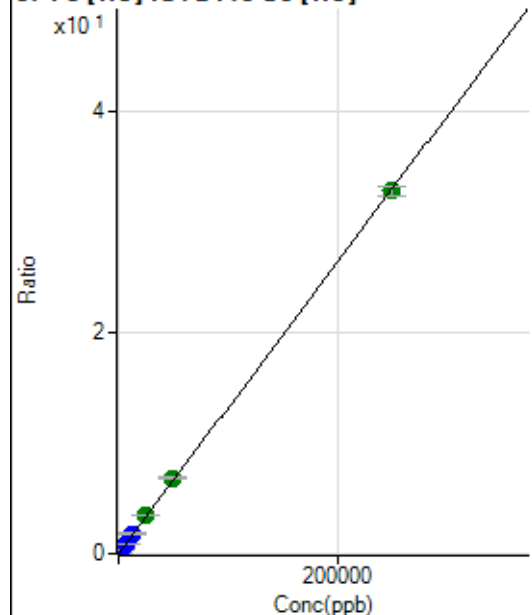
$$R = 0.9999$$

$$DL = 0.2856$$

$$BEC = 3.454$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	727.81	0.0010	P	9.7
2	☐	50.000	56.465	5945.70	0.0085	P	3.3
3	☐	2500.000	2824.773	262842.70	0.3727	P	1.4
4	☐	6250.000	7003.989	621546.57	0.9226	P	3.8
5	☐	12500.000	13837.089	1195850.91	1.8216	P	1.1
6	☐	25000.000	26865.953	2304111.68	3.5359	A	1.5
7	☐	50000.000	52090.271	4552649.23	6.8548	A	1.6
8	☐	250000.00	249306.39	21833969.47	32.8033	A	2.5

$$y = 1.3157\text{E-}004 * x + 0.0010$$

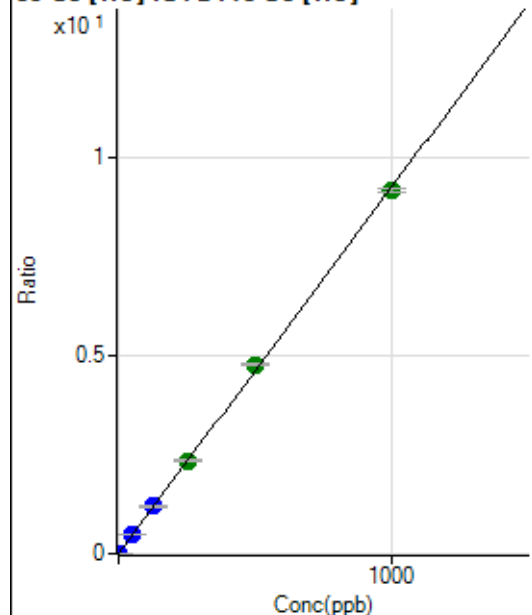
R = 0.9999

DL = 2.282

BEC = 7.822

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0001	P	10.6
2	☐	1.000	1.097	7238.47	0.0103	P	0.5
3	☐	50.000	52.803	345211.27	0.4895	P	0.4
4	☐	125.000	130.758	816541.80	1.2119	P	3.5
5	☐	250.000	252.407	1535587.30	2.3393	A	2.0
6	☐	500.000	516.169	3117309.40	4.7837	A	1.6
7	☐	1000.000	990.454	6096712.13	9.1792	A	1.1
8	☐			6589.27	0.0099	P	4.7

$$y = 0.0093 * x + 1.3198\text{E-}004$$

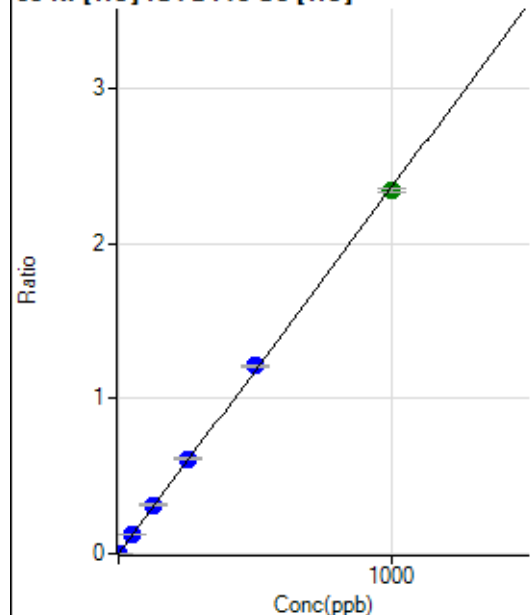
R = 0.9998

DL = 0.004533

BEC = 0.01424

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	93.33	0.0001	P	23.4
2	☐	1.000	1.069	1866.80	0.0027	P	4.4
3	☐	50.000	53.235	88719.28	0.1258	P	1.0
4	☐	125.000	131.562	209308.19	0.3107	P	3.9
5	☐	250.000	258.629	400859.78	0.6106	P	1.1
6	☐	500.000	512.958	789118.13	1.2110	P	1.3
7	☐	1000.000	990.382	1552864.44	2.3379	A	0.9
8	☐			8140.07	0.0122	P	2.1

$$y = 0.0024 * x + 1.3213E-004$$

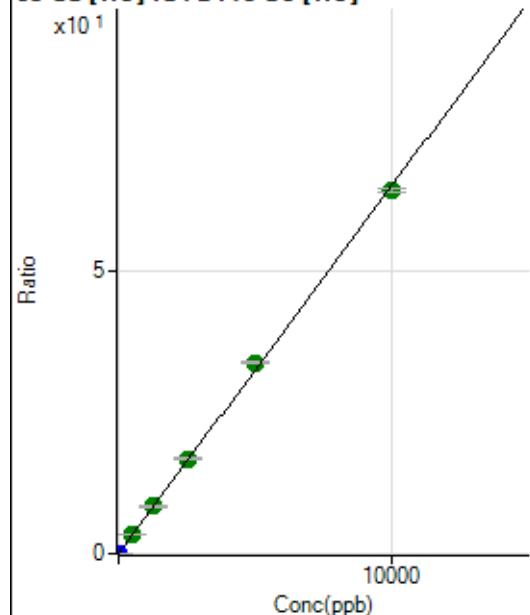
R = 0.9998

DL = 0.03933

BEC = 0.05598

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	954.48	0.0013	P	4.5
2	☐	2.000	2.141	10765.06	0.0153	P	1.7
3	☐	500.000	536.497	2468452.24	3.5000	A	0.2
4	☐	1250.000	1304.808	5733216.16	8.5105	A	4.2
5	☐	2500.000	2580.288	11047414.14	16.8283	A	1.1
6	☐	5000.000	5200.437	22100566.34	33.9152	A	1.3
7	☐	10000.000	9871.034	42757441.86	64.3738	A	1.0
8	☐			16593.73	0.0249	P	0.9

$$y = 0.0065 * x + 0.0013$$

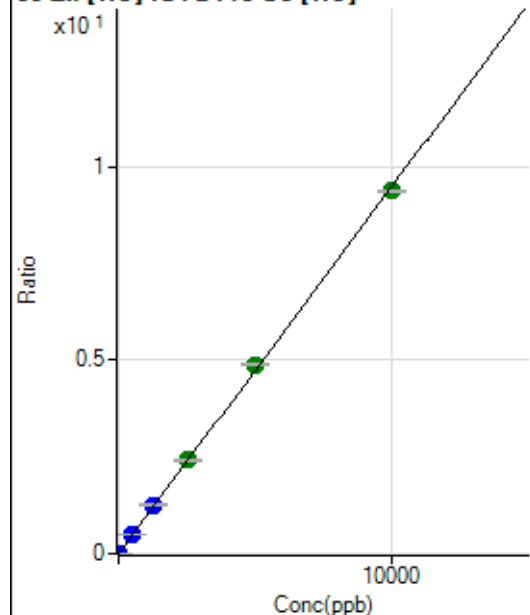
R = 0.9997

DL = 0.02813

BEC = 0.2069

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	527.79	0.0007	P	9.9
2	☐	2.000	2.068	1900.14	0.0027	P	8.3
3	☐	500.000	533.290	356645.23	0.5057	P	0.8
4	☐	1250.000	1321.282	843451.81	1.2518	P	3.3
5	☐	2500.000	2556.487	1589567.02	2.4214	A	1.1
6	☐	5000.000	5157.137	3182567.90	4.8838	A	1.2
7	☐	10000.000	9896.735	6224940.46	9.3716	A	0.5
8	☐			9816.64	0.0147	P	2.3

$$y = 9.4686\text{E-}004 * x + 7.4519\text{E-}004$$

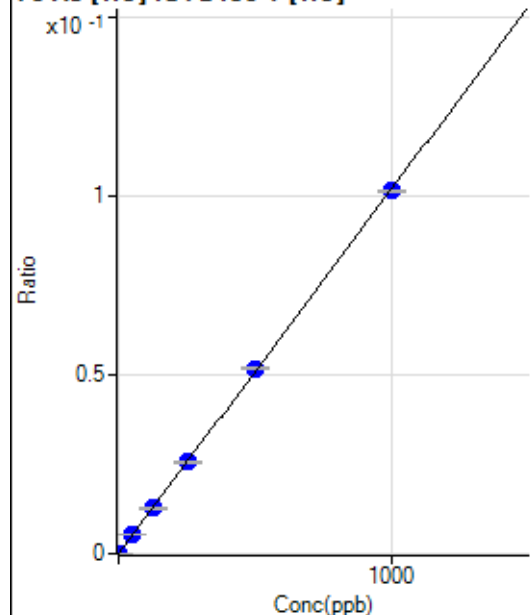
$$R = 0.9998$$

$$DL = 0.234$$

$$BEC = 0.787$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.64	0.0000	P	45.5
2	☐	1.000	1.011	458.04	0.0001	P	7.2
3	☐	50.000	51.353	22870.67	0.0052	P	0.2
4	☐	125.000	125.099	54623.71	0.0128	P	3.5
5	☐	250.000	251.618	106237.78	0.0257	P	1.6
6	☐	500.000	508.727	212298.15	0.0519	P	0.9
7	☐	1000.000	995.152	424605.74	0.1015	P	0.4
8	☐			257.41	0.0001	P	7.0

$$y = 1.0198\text{E-}004 * x + 1.9747\text{E-}006$$

$$R = 0.9999$$

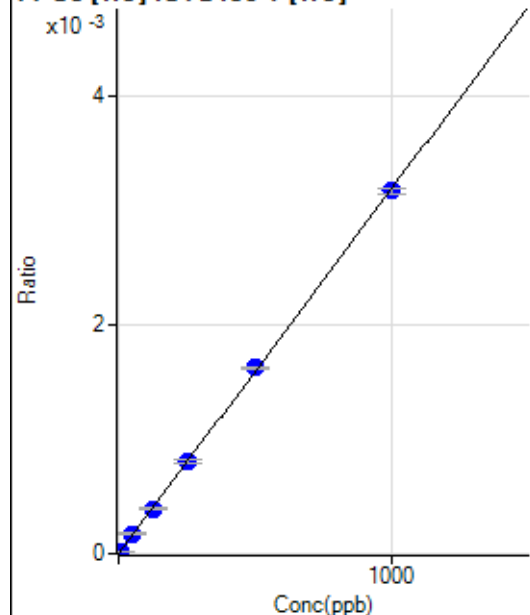
$$DL = 0.02641$$

$$BEC = 0.01936$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.155	85.56	0.0000	P	46.3
3	☐	50.000	54.022	752.25	0.0002	P	6.6
4	☐	125.000	122.306	1673.45	0.0004	P	5.7
5	☐	250.000	253.424	3347.08	0.0008	P	3.5
6	☐	500.000	509.127	6645.99	0.0016	P	1.7
7	☐	1000.000	994.710	13277.15	0.0032	P	1.4
8	☐			8.89	0.0000	P	58.0

$$y = 3.1904\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

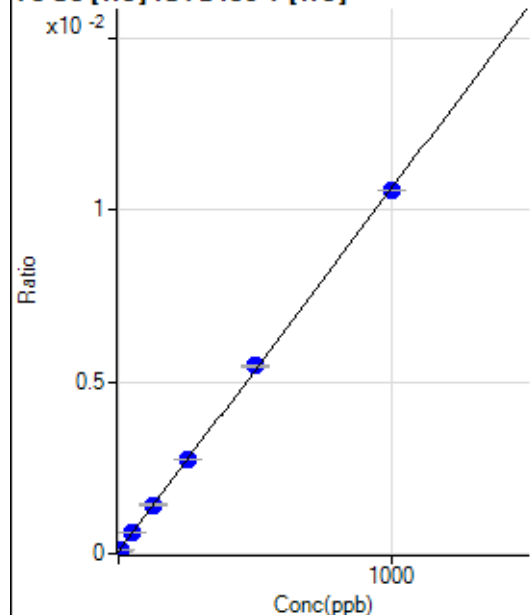
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	283.95	0.0001	P	6.1
2	☐	5.000	4.131	472.23	0.0001	P	1.5
3	☐	50.000	50.758	2620.62	0.0006	P	1.0
4	☐	125.000	128.931	6101.28	0.0014	P	3.3
5	☐	250.000	254.576	11388.97	0.0028	P	0.6
6	☐	500.000	510.348	22300.71	0.0054	P	0.5
7	☐	1000.000	993.157	44115.26	0.0105	P	0.1
8	☐			281.48	0.0001	P	6.0

$$y = 1.0552\text{E-}005 * x + 6.4706\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.127$$

$$BEC = 6.132$$

Weight: <None>

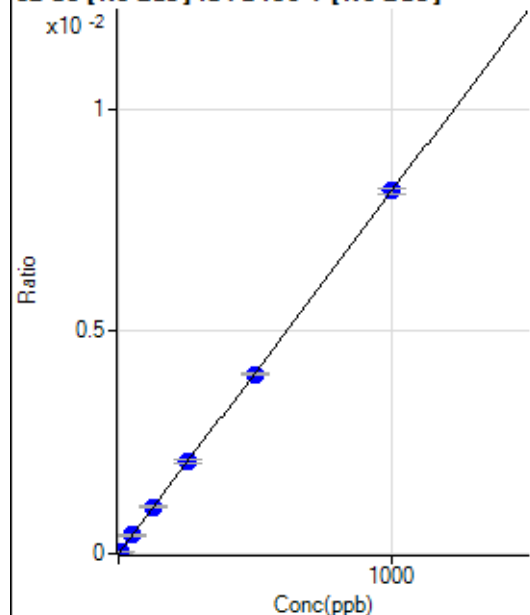
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23424.62		P	1.8
2	☐			23477.57		P	2.8
3	☐			23686.19		P	1.4
4	☐			22245.16		P	0.7
5	☐			21176.84		P	3.6
6	☐			21304.77		P	2.9
7	☐			22272.91		P	3.4
8	☐			23307.79		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			60.06		P	44.1
2	☐			70.07		P	49.5
3	☐			83.42		P	13.9
4	☐			33.37		P	17.3
5	☐			56.72		P	20.4
6	☐			33.37		P	45.8
7	☐			66.73		P	74.0
8	☐			70.07		P	37.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	29.14	0.0000	P	71.5
2	☐	5.000	5.313	830.08	0.0000	P	9.3
3	☐	50.000	50.858	8029.78	0.0004	P	3.0
4	☐	125.000	129.180	19567.33	0.0011	P	2.7
5	☐	250.000	254.261	37885.75	0.0021	P	2.5
6	☐	500.000	493.863	74777.09	0.0040	P	1.1
7	☐	1000.000	1001.437	149698.09	0.0082	P	1.4
8	☐			213.63	0.0000	P	9.3

$$y = 8.1478\text{E-}006 * x + 1.4989\text{E-}006$$

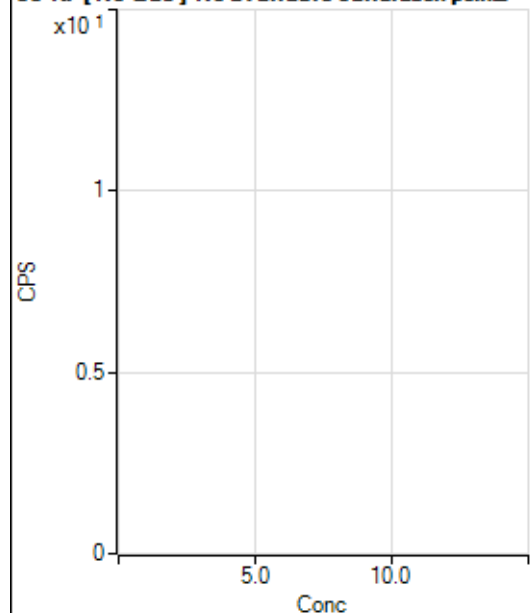
$$R = 1.0000$$

$$DL = 0.3945$$

$$BEC = 0.184$$

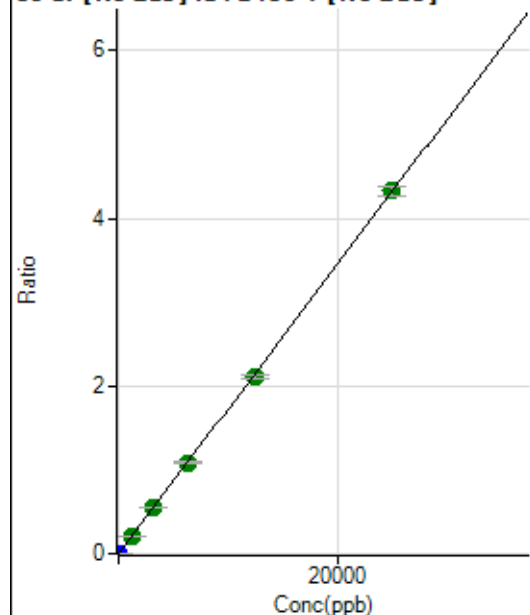
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			228.89		P	4.7
2	☐			222.23		P	15.8
3	☐			254.45		P	12.5
4	☐			227.78		P	6.6
5	☐			228.89		P	11.8
6	☐			258.89		P	7.1
7	☐			244.45		P	10.3
8	☐			274.45		P	12.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	533.35	0.0000	P	16.0
2	☐	1.000	1.012	3725.58	0.0002	P	1.0
3	☐	1250.000	1253.887	4170943.32	0.2160	A	0.6
4	☐	3125.000	3162.884	10114742.76	0.5448	A	1.6
5	☐	6250.000	6305.131	19846603.91	1.0861	A	2.6
6	☐	12500.000	12244.208	39179823.10	2.1091	A	1.4
7	☐	25000.000	25109.183	79338898.30	4.3250	A	2.4
8	☐			28252.74	0.0016	P	5.4

$$y = 1.7225E-004 * x + 2.7091E-005$$

$$R = 0.9999$$

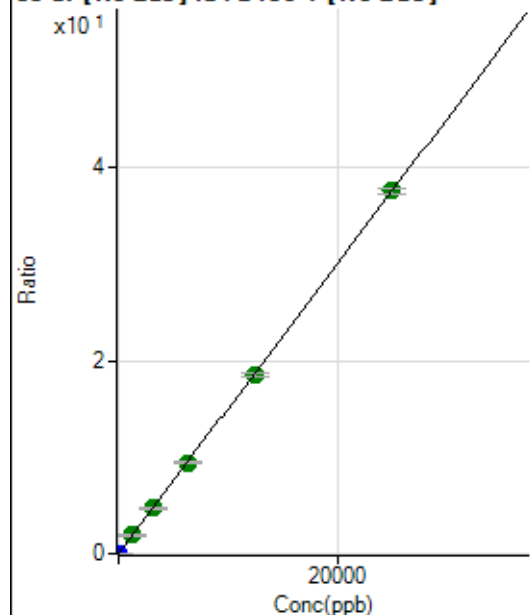
$$DL = 0.0753$$

$$BEC = 0.1573$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	786.15	0.0000	P	5.9
2	☐	1.000	1.020	28995.79	0.0016	P	1.0
3	☐	1250.000	1263.235	36532508.46	1.8921	A	0.4
4	☐	3125.000	3151.147	87620417.93	4.7198	A	2.5
5	☐	6250.000	6300.729	172445758.0	9.4372	A	2.8
6	☐	12500.000	12330.702	343088691.0	18.4689	A	2.4
7	☐	25000.000	25068.037	688735865.3	37.5467	A	1.4
8	☐			239390.31	0.0139	P	6.6

$$y = 0.0015 * x + 3.9853E-005$$

$$R = 1.0000$$

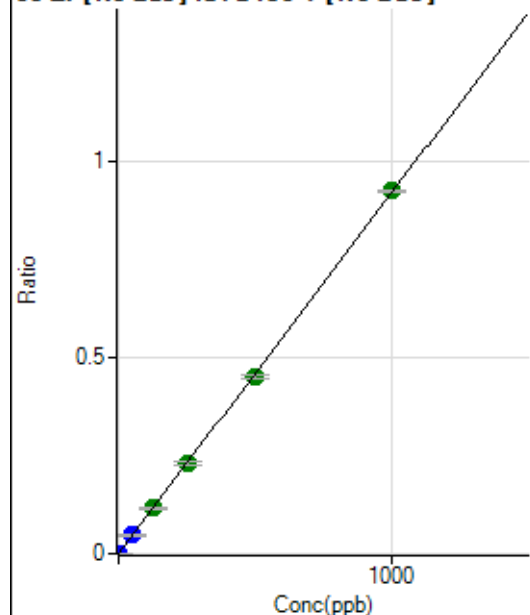
$$DL = 0.004677$$

$$BEC = 0.02661$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	866.72	0.0000	P	3.3
2	☐	1.000	1.001	17819.51	0.0010	P	2.4
3	☐	50.000	50.864	903349.24	0.0468	P	1.3
4	☐	125.000	126.650	2161280.50	0.1164	A	3.2
5	☐	250.000	250.157	4200492.02	0.2299	A	3.6
6	☐	500.000	488.705	8343661.99	0.4491	A	1.7
7	☐	1000.000	1005.359	16947929.02	0.9239	A	0.5
8	☐			8841.75	0.0005	P	2.0

$$y = 9.1891\text{E-}004 * x + 4.3893\text{E-}005$$

$$R = 0.9999$$

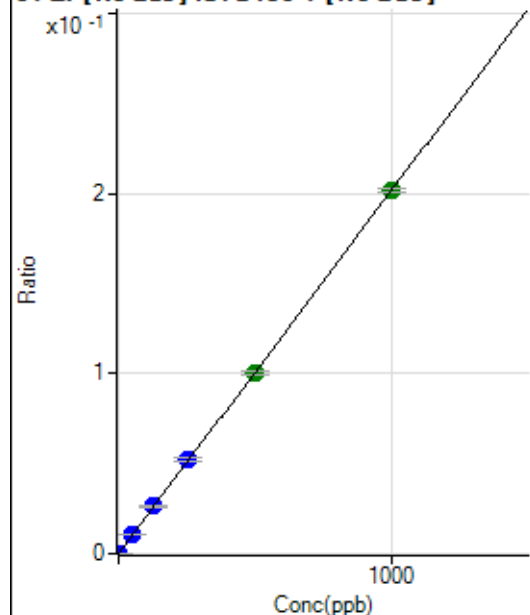
$$DL = 0.004679$$

$$BEC = 0.04777$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	158.34	0.0000	P	24.1
2	☐	1.000	0.997	3864.50	0.0002	P	5.6
3	☐	50.000	51.083	199138.83	0.0103	P	0.9
4	☐	125.000	129.686	485877.14	0.0262	P	3.0
5	☐	250.000	258.409	952687.13	0.0521	P	3.4
6	☐	500.000	496.767	1862074.15	0.1002	A	1.7
7	☐	1000.000	998.875	3697108.81	0.2015	A	1.2
8	☐			2002.97	0.0001	P	2.1

$$y = 2.0176\text{E-}004 * x + 8.0690\text{E-}006$$

$$R = 0.9999$$

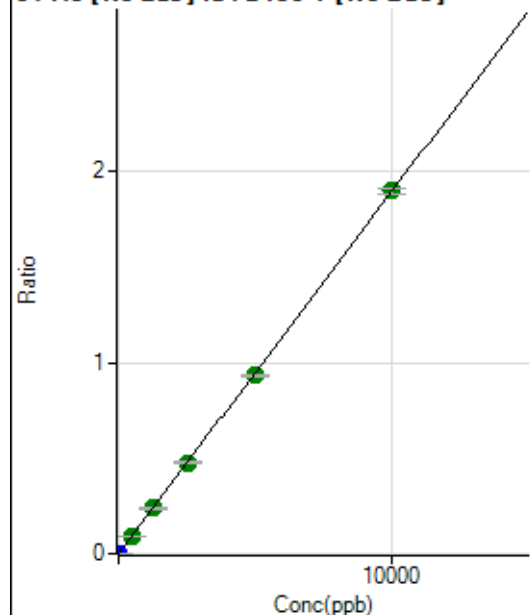
$$DL = 0.02898$$

$$BEC = 0.03999$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	319.46	0.0000	P	18.4
2	☐	5.000	5.695	20225.53	0.0011	P	0.9
3	☐	500.000	493.211	1800998.13	0.0933	A	1.8
4	☐	1250.000	1254.939	4406753.70	0.2374	A	2.2
5	☐	2500.000	2515.319	8692814.69	0.4757	A	3.1
6	☐	5000.000	4930.426	17323851.78	0.9325	A	1.4
7	☐	10000.000	10030.679	34801091.75	1.8972	A	1.7
8	☐			16078.73	0.0009	P	4.9

$$y = 1.8913E-004 * x + 1.6121E-005$$

$$R = 1.0000$$

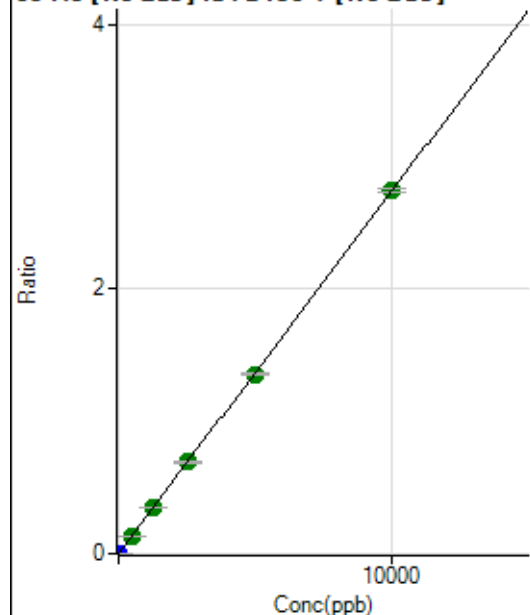
$$DL = 0.04708$$

$$BEC = 0.08524$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	35.1
2	☐	5.000	4.839	24582.18	0.0013	P	0.2
3	☐	500.000	500.318	2642439.34	0.1369	A	1.2
4	☐	1250.000	1262.116	6410786.77	0.3453	A	2.0
5	☐	2500.000	2532.290	12660533.53	0.6928	A	2.7
6	☐	5000.000	4946.052	25138327.30	1.3532	A	0.8
7	☐	10000.000	10017.371	50279577.17	2.7408	A	1.1
8	☐			21368.92	0.0012	P	6.5

$$y = 2.7360E-004 * x + 5.0506E-006$$

$$R = 1.0000$$

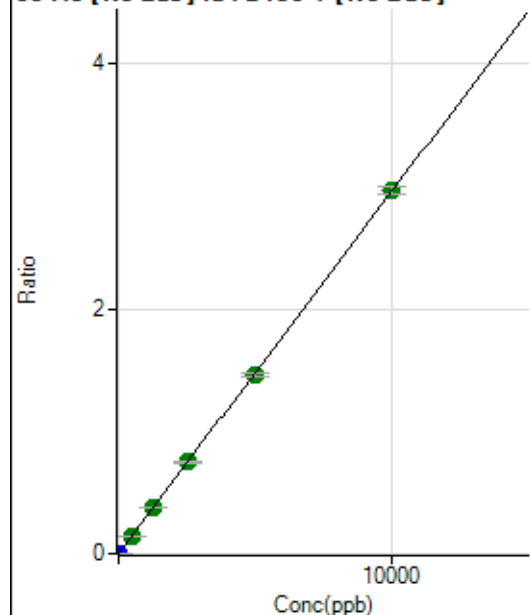
$$DL = 0.01942$$

$$BEC = 0.01846$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	213.90	0.0000	P	16.4
2	☐	5.000	4.900	26986.68	0.0015	P	1.9
3	☐	500.000	499.962	2851427.60	0.1477	A	0.9
4	☐	1250.000	1262.397	6923025.15	0.3729	A	1.6
5	☐	2500.000	2527.685	13643168.19	0.7467	A	3.0
6	☐	5000.000	4923.726	27020207.20	1.4544	A	2.0
7	☐	10000.000	10029.668	54342927.26	2.9626	A	2.0
8	☐			34703.07	0.0020	P	3.2

$$y = 2.9539E-004 * x + 1.0843E-005$$

$$R = 1.0000$$

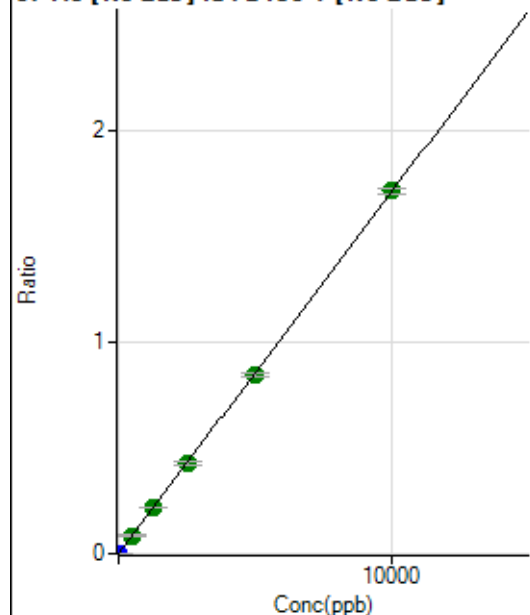
$$DL = 0.01807$$

$$BEC = 0.03671$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	46.4
2	☐	5.000	4.841	15338.97	0.0008	P	3.1
3	☐	500.000	502.162	1656106.76	0.0858	A	1.4
4	☐	1250.000	1267.965	4021615.19	0.2166	A	2.8
5	☐	2500.000	2503.595	7815839.32	0.4277	A	2.9
6	☐	5000.000	4927.691	15639900.00	0.8419	A	1.9
7	☐	10000.000	10032.902	31442247.23	1.7141	A	1.6
8	☐			13100.71	0.0008	P	5.7

$$y = 1.7085E-004 * x + 2.5483E-006$$

$$R = 1.0000$$

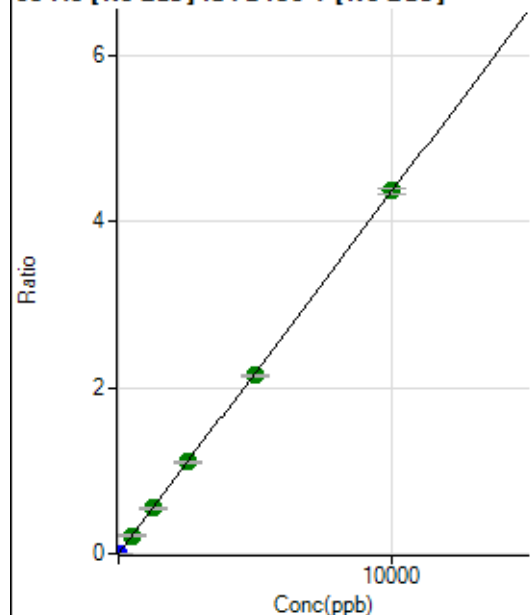
$$DL = 0.02076$$

$$BEC = 0.01492$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	5.0
2	☐	5.000	4.808	38944.34	0.0021	P	2.4
3	☐	500.000	503.310	4234104.04	0.2193	A	1.0
4	☐	1250.000	1261.647	10206779.22	0.5498	A	3.4
5	☐	2500.000	2529.906	20142216.94	1.1025	A	3.6
6	☐	5000.000	4927.735	39894369.99	2.1475	A	1.6
7	☐	10000.000	10027.035	80162894.85	4.3697	A	1.4
8	☐			32737.42	0.0019	P	6.6

$$y = 4.3579\text{E-}004 * x + 9.8586\text{E-}006$$

$$R = 1.0000$$

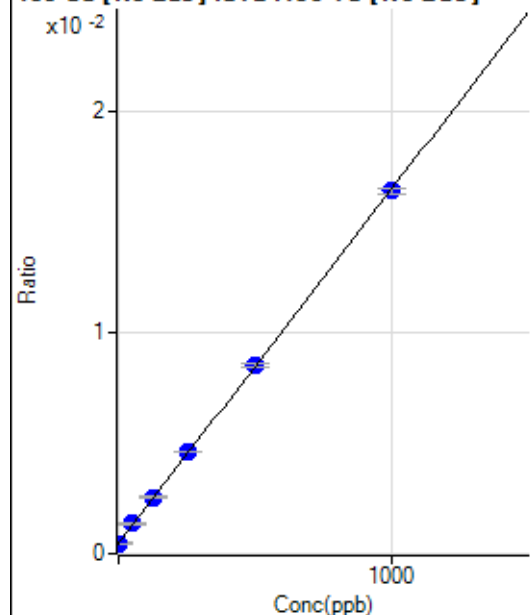
$$DL = 0.003392$$

$$BEC = 0.02262$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7029.68	0.0005	P	3.6
2	☐	1.000	-1.278	6315.43	0.0005	P	4.6
3	☐	50.000	55.102	19930.70	0.0014	P	1.1
4	☐	125.000	130.498	37265.23	0.0026	P	2.1
5	☐	250.000	258.769	67044.31	0.0046	P	1.3
6	☐	500.000	503.332	124837.73	0.0085	P	2.3
7	☐	1000.000	995.201	238515.67	0.0164	P	1.4
8	☐			6404.35	0.0005	P	2.1

$$y = 1.6031\text{E-}005 * x + 4.7194\text{E-}004$$

$$R = 0.9999$$

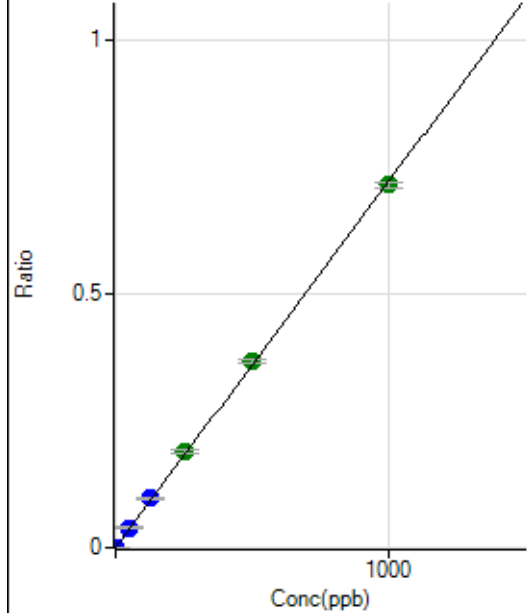
$$DL = 3.17$$

$$BEC = 29.44$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	111.11	0.0000	P	26.9
2	☐	1.000	1.123	11429.76	0.0008	P	3.8
3	☐	50.000	55.092	583894.74	0.0397	P	0.4
4	☐	125.000	135.046	1414289.69	0.0973	P	2.1
5	☐	250.000	261.404	2732012.49	0.1883	A	3.2
6	☐	500.000	508.460	5354890.01	0.3663	A	2.3
7	☐	1000.000	991.409	10372080.09	0.7143	A	1.4
8	☐			5281.67	0.0004	P	7.0

$$y = 7.2049\text{E-}004 * x + 7.4377\text{E-}006$$

$$R = 0.9999$$

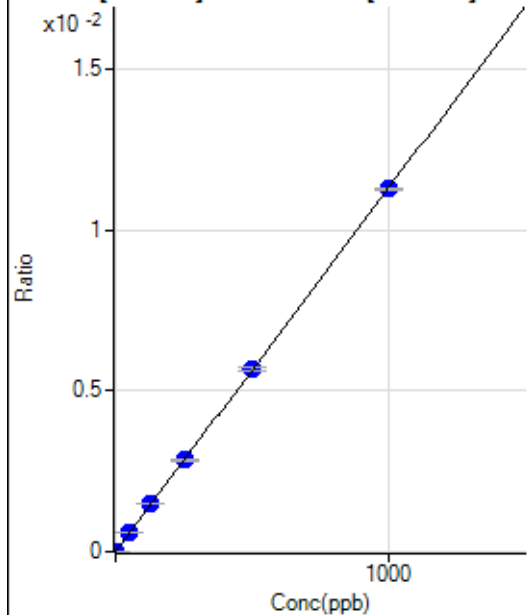
$$DL = 0.008345$$

$$BEC = 0.01032$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	16.67	0.0000	P	47.3
2	☐	1.000	0.953	166.67	0.0000	P	10.2
3	☐	50.000	52.915	8825.01	0.0006	P	3.3
4	☐	125.000	132.354	21784.57	0.0015	P	1.7
5	☐	250.000	252.313	41442.65	0.0029	P	1.8
6	☐	500.000	500.803	82852.27	0.0057	P	2.1
7	☐	1000.000	997.955	164015.78	0.0113	P	0.4
8	☐			119.45	0.0000	P	31.5

$$y = 1.1316\text{E-}005 * x + 1.1094\text{E-}006$$

$$R = 1.0000$$

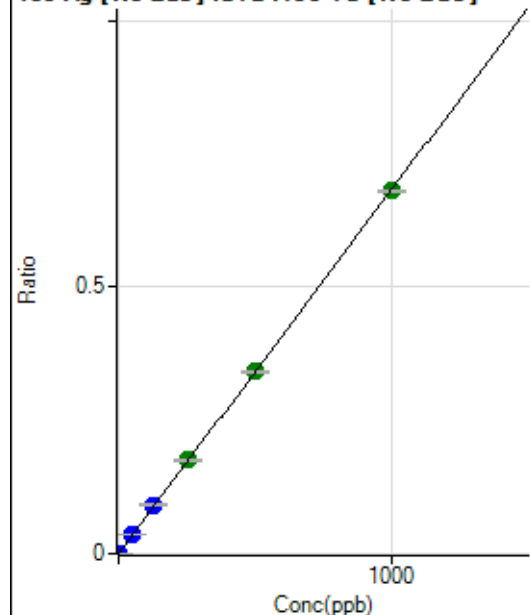
$$DL = 0.1391$$

$$BEC = 0.09804$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	47.23	0.0000	P	22.4
2	☐	1.000	1.123	10776.49	0.0008	P	3.3
3	☐	50.000	54.817	550950.33	0.0375	P	1.2
4	☐	125.000	134.349	1334232.51	0.0918	P	1.7
5	☐	250.000	256.521	2542800.95	0.1753	A	2.3
6	☐	500.000	500.406	4997453.19	0.3419	A	1.2
7	☐	1000.000	996.757	9889868.01	0.6810	A	0.7
8	☐			4889.85	0.0004	P	3.6

$$y = 6.8326E-004 * x + 3.1799E-006$$

$$R = 0.9999$$

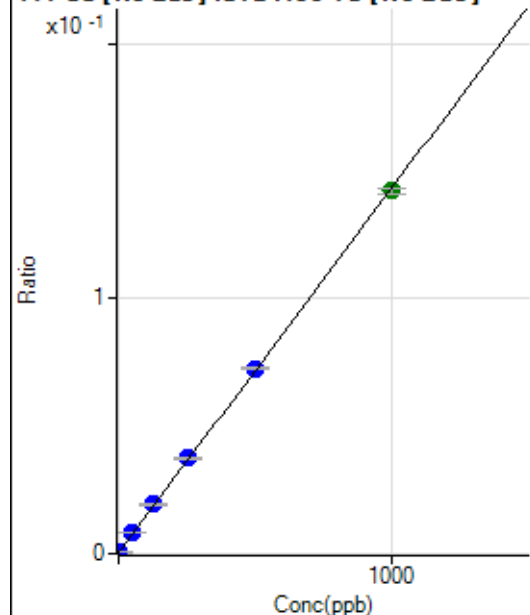
$$DL = 0.00313$$

$$BEC = 0.004654$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	4921.61	0.0003	P	3.7
2	☐	1.000	0.945	6512.66	0.0005	P	2.9
3	☐	50.000	53.879	118155.18	0.0080	P	0.7
4	☐	125.000	133.043	281241.38	0.0194	P	2.1
5	☐	250.000	259.966	543930.78	0.0375	P	2.5
6	☐	500.000	505.982	1062114.27	0.0727	P	1.6
7	☐	1000.000	993.318	2066782.15	0.1423	A	1.9
8	☐			5506.44	0.0004	P	2.0

$$y = 1.4296E-004 * x + 3.3042E-004$$

$$R = 0.9999$$

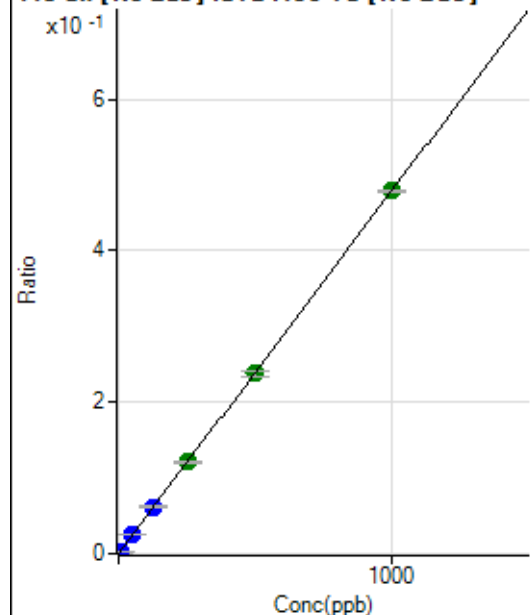
$$DL = 0.2539$$

$$BEC = 2.311$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1886.29	0.0001	P	3.8
2	☐	5.000	5.471	38382.67	0.0027	P	2.0
3	☐	50.000	52.065	368199.29	0.0250	P	1.1
4	☐	125.000	129.258	900610.41	0.0620	P	3.1
5	☐	250.000	252.826	1756545.18	0.1211	A	2.5
6	☐	500.000	495.897	3469614.51	0.2374	A	2.9
7	☐	1000.000	1000.707	6954568.78	0.4789	A	0.9
8	☐			14171.33	0.0011	P	3.1

$$y = 4.7840\text{E-}004 * x + 1.2672\text{E-}004$$

$$R = 1.0000$$

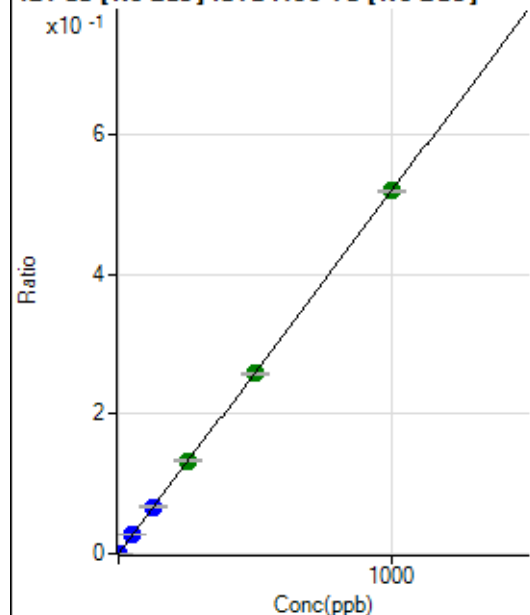
$$DL = 0.03025$$

$$BEC = 0.2649$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	119.45	0.0000	P	11.7
2	☐	2.000	2.135	15606.05	0.0011	P	1.6
3	☐	50.000	51.832	395582.49	0.0269	P	1.7
4	☐	125.000	128.874	971719.73	0.0669	P	2.8
5	☐	250.000	255.001	1919046.90	0.1323	A	2.5
6	☐	500.000	496.039	3760917.75	0.2573	A	1.1
7	☐	1000.000	1000.154	7535009.46	0.5188	A	0.7
8	☐			7666.12	0.0006	P	4.0

$$y = 5.1871\text{E-}004 * x + 8.0264\text{E-}006$$

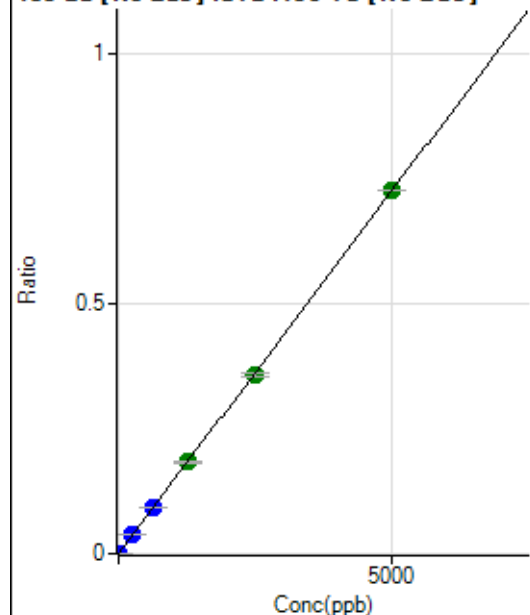
$$R = 1.0000$$

$$DL = 0.005436$$

$$BEC = 0.01547$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	36.11	0.0000	P	46.2
2	☐	10.000	10.242	20782.46	0.0015	P	2.0
3	☐	250.000	255.109	543373.44	0.0369	P	0.2
4	☐	625.000	630.101	1326257.78	0.0912	P	1.8
5	☐	1250.000	1267.019	2661921.20	0.1835	A	2.2
6	☐	2500.000	2476.318	5241702.33	0.3586	A	2.3
7	☐	5000.000	5006.693	10529628.10	0.7250	A	0.0
8	☐			5845.80	0.0004	P	4.2

$$y = 1.4481\text{E-}004 * x + 2.4075\text{E-}006$$

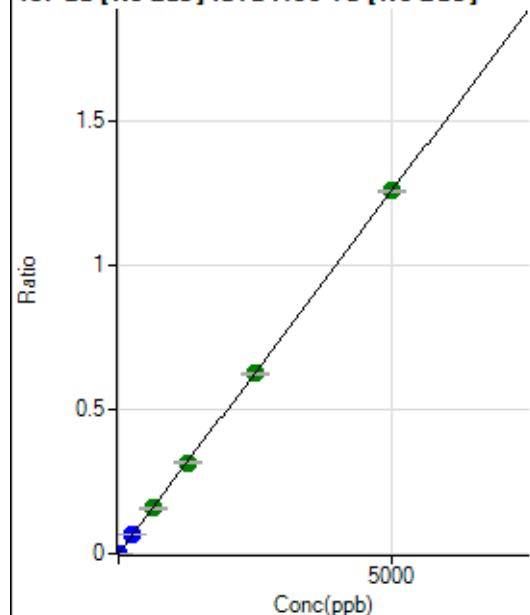
$$R = 1.0000$$

$$DL = 0.02304$$

$$BEC = 0.01662$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	44.44	0.0000	P	30.8
2	☐	10.000	10.373	36572.85	0.0026	P	1.9
3	☐	250.000	253.953	940138.49	0.0639	P	1.2
4	☐	625.000	628.288	2298574.66	0.1581	A	2.3
5	☐	1250.000	1256.249	4586268.76	0.3162	A	3.4
6	☐	2500.000	2486.337	9147363.14	0.6258	A	1.6
7	☐	5000.000	5004.660	18294157.70	1.2597	A	0.5
8	☐			10284.56	0.0008	P	1.6

$$y = 2.5171\text{E-}004 * x + 2.9987\text{E-}006$$

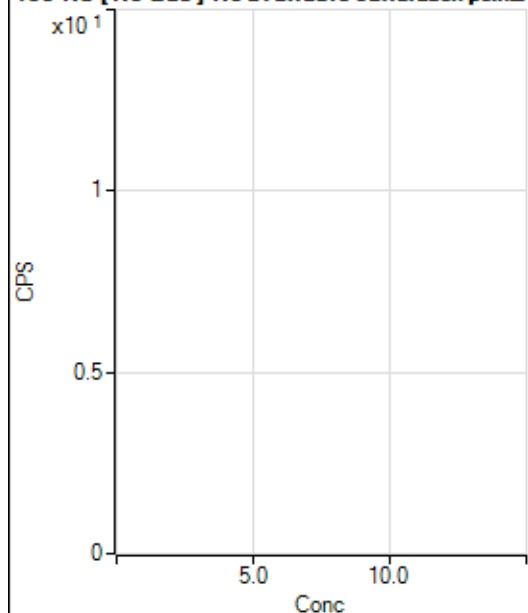
$$R = 1.0000$$

$$DL = 0.011$$

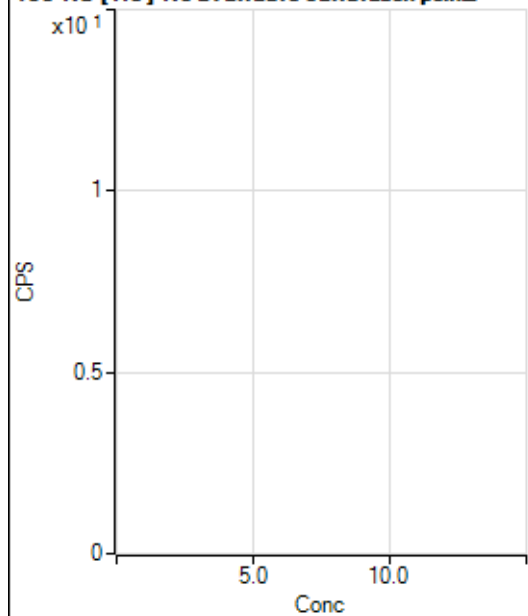
$$BEC = 0.01191$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

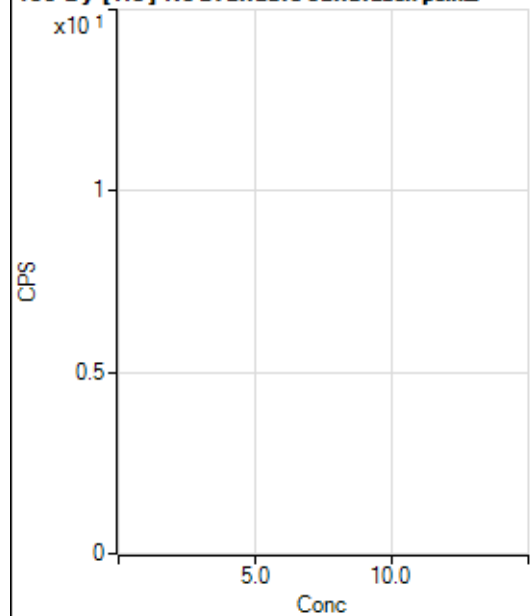
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	100.
2	☐			4.44		P	173.
3	☐			48.89		P	28.4
4	☐			151.11		P	19.9
5	☐			331.12		P	8.4
6	☐			522.24		P	7.3
7	☐			1066.73		P	7.4
8	☐			120.01		P	47.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			3.33		P	100.
3	☐			10.00		P	33.3
4	☐			17.78		P	10.8
5	☐			63.33		P	19.0
6	☐			116.67		P	7.6
7	☐			221.11		P	8.6
8	☐			63.33		P	27.9

156 Dy [No Gas] No available calibration points

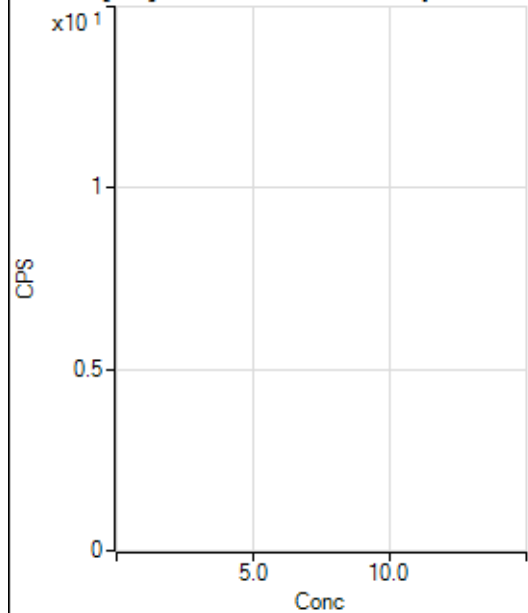
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.
2	☐			0.00		P	
3	☐			36.11		P	48.0
4	☐			91.67		P	50.6
5	☐			169.45		P	24.3
6	☐			275.01		P	9.1
7	☐			530.58		P	1.8
8	☐			1313.99		P	9.5

156 Dy [He] No available calibration points

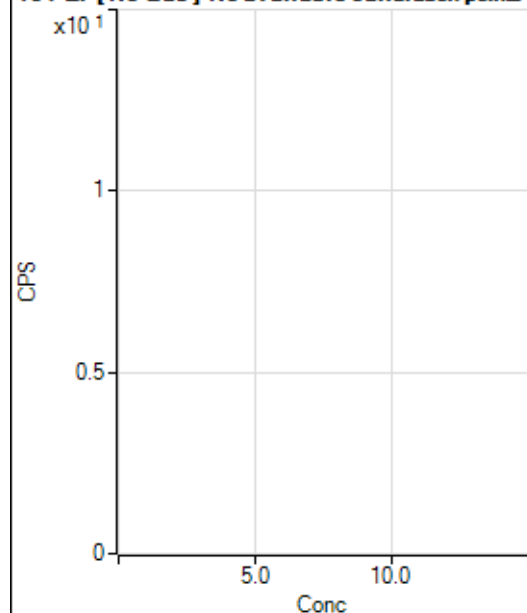
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	43.4
2	☐			13.33		P	25.0
3	☐			34.44		P	36.6
4	☐			75.55		P	9.2
5	☐			128.89		P	7.9
6	☐			272.23		P	13.9
7	☐			541.13		P	4.3
8	☐			861.15		P	2.9

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

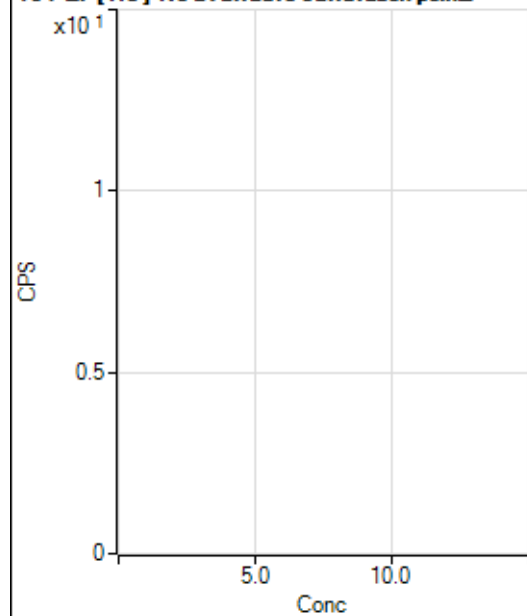
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.55		P	37.8
2	☐			33.33		P	25.0
3	☐			91.67		P	0.0
4	☐			111.11		P	28.4
5	☐			133.34		P	22.5
6	☐			208.34		P	24.3
7	☐			369.46		P	3.4
8	☐			1052.85		P	1.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			408.90		P	6.8
2	☐			377.79		P	7.1
3	☐			391.12		P	5.5
4	☐			382.23		P	17.7
5	☐			397.79		P	7.2
6	☐			492.24		P	3.1
7	☐			562.24		P	8.0
8	☐			1114.50		P	1.0

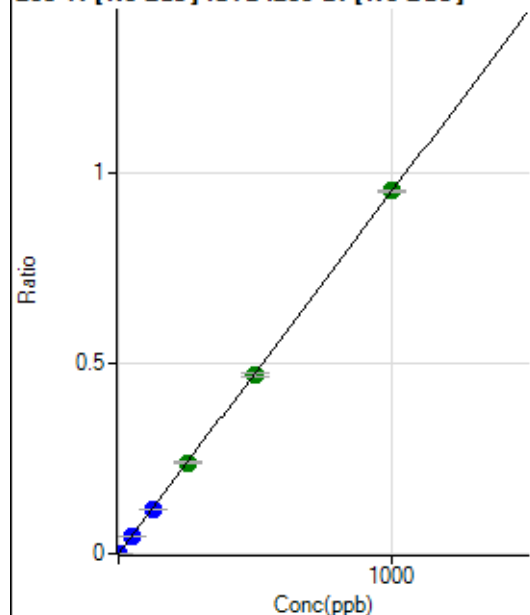
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	52.9
2	☐			50.00		P	16.7
3	☐			58.33		P	14.3
4	☐			72.23		P	33.3
5	☐			113.89		P	15.2
6	☐			125.00		P	35.3
7	☐			172.23		P	32.2
8	☐			130.56		P	19.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			40.00		P	38.2
2	☐			24.44		P	20.8
3	☐			45.55		P	15.2
4	☐			48.89		P	25.8
5	☐			52.22		P	9.7
6	☐			74.44		P	17.0
7	☐			110.00		P	10.5
8	☐			85.56		P	25.0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	83.34	0.0000	P	17.3
2	☐	1.000	0.975	8122.12	0.0009	P	4.1
3	☐	50.000	47.738	409527.27	0.0455	P	0.7
4	☐	125.000	121.015	1018458.65	0.1153	P	1.0
5	☐	250.000	251.292	2113564.00	0.2394	A	1.9
6	☐	500.000	494.735	4193093.46	0.4712	A	2.0
7	☐	1000.000	1002.921	8225312.25	0.9553	A	0.5
8	☐			2655.89	0.0004	P	11.0

$$y = 9.5248\text{E-}004 * x + 9.0396\text{E-}006$$

$$R = 1.0000$$

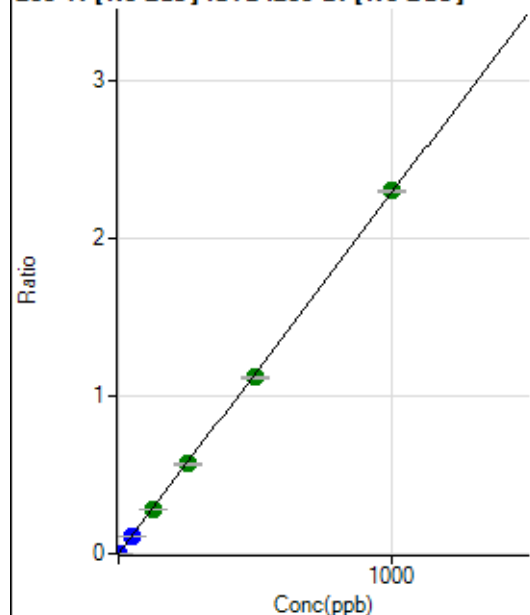
$$DL = 0.004931$$

$$BEC = 0.009491$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	202.78	0.0000	P	19.7
2	☐	1.000	0.961	19191.77	0.0022	P	1.1
3	☐	50.000	47.216	970986.76	0.1078	P	0.8
4	☐	125.000	122.932	2480246.54	0.2807	A	0.9
5	☐	250.000	248.246	5006017.91	0.5669	A	1.3
6	☐	500.000	488.565	9926341.89	1.1156	A	1.3
7	☐	1000.000	1006.554	19789306.00	2.2983	A	0.5
8	☐			6271.07	0.0009	P	5.7

$$y = 0.0023 * x + 2.2065\text{E-}005$$

$$R = 0.9999$$

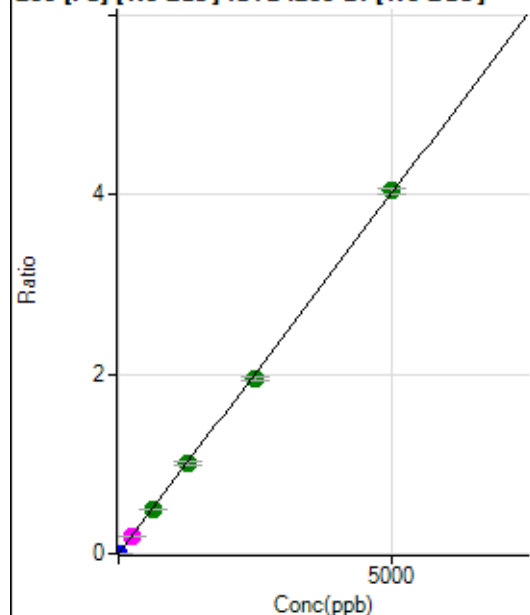
$$DL = 0.005719$$

$$BEC = 0.009663$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	298.15	0.0000	P	19.3
2	☐	1.000	0.943	6827.75	0.0008	P	4.1
3	☐	250.000	239.942	1733995.31	0.1925	M	3.8
4	☐	625.000	621.130	4402472.90	0.4983	A	0.8
5	☐	1250.000	1256.137	8896287.76	1.0077	A	2.7
6	☐	2500.000	2430.333	17347267.06	1.9496	A	2.9
7	☐	5000.000	5034.286	34777555.17	4.0383	A	1.6
8	☐			10908.25	0.0015	P	3.5

$$y = 8.0216\text{E-}004 * x + 3.2296\text{E-}005$$

$$R = 0.9999$$

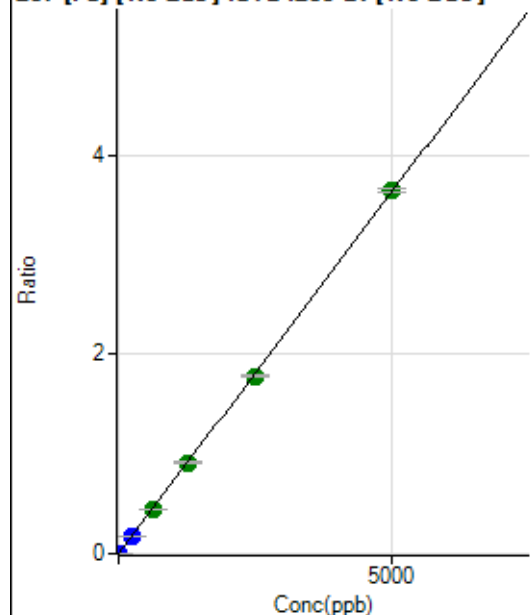
$$DL = 0.0233$$

$$BEC = 0.04026$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	262.97	0.0000	P	15.9
2	☐	1.000	0.916	5990.31	0.0007	P	3.8
3	☐	250.000	231.714	1512821.27	0.1680	P	1.0
4	☐	625.000	622.655	3988002.72	0.4514	A	0.5
5	☐	1250.000	1263.159	8085489.36	0.9157	A	1.9
6	☐	2500.000	2456.050	15842145.49	1.7804	A	1.6
7	☐	5000.000	5019.893	31332893.99	3.6389	A	0.9
8	☐			9421.93	0.0013	P	5.2

$$y = 7.2490\text{E-}004 * x + 2.8615\text{E-}005$$

$$R = 0.9999$$

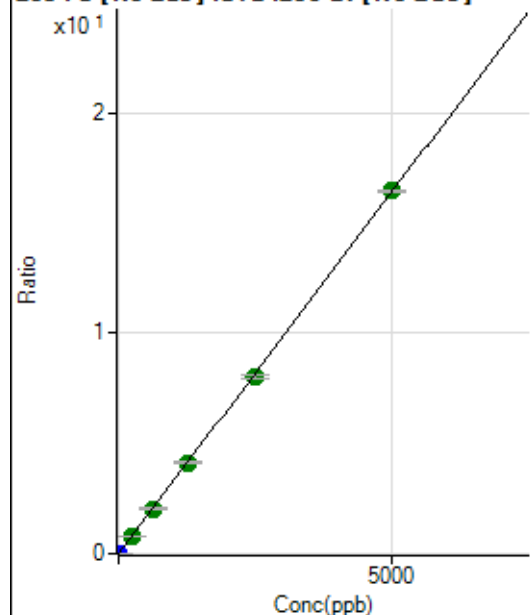
$$DL = 0.0188$$

$$BEC = 0.03947$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1220.41	0.0001	P	1.4
2	☐	1.000	0.922	27294.51	0.0032	P	2.3
3	☐	250.000	240.051	7087347.25	0.7870	A	1.4
4	☐	625.000	623.155	18049317.39	2.0428	A	1.3
5	☐	1250.000	1253.366	36275230.55	4.1086	A	2.4
6	☐	2500.000	2457.872	71689999.52	8.0569	A	2.4
7	☐	5000.000	5020.951	141714669.3	16.4585	A	0.8
8	☐			43889.74	0.0061	P	2.8

$$y = 0.0033 * x + 1.3276E-004$$

$$R = 0.9999$$

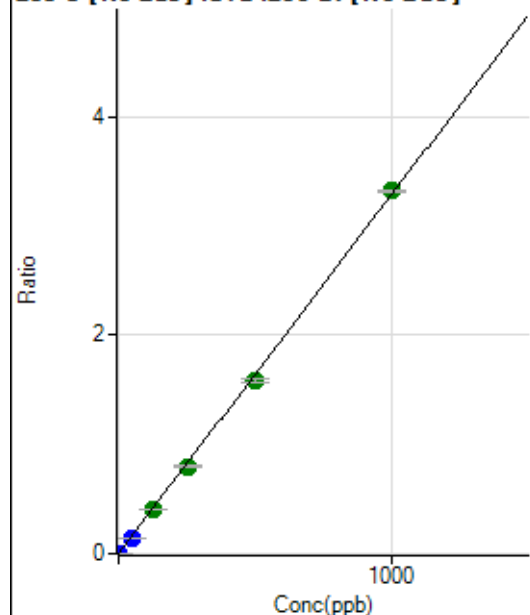
$$DL = 0.00169$$

$$BEC = 0.0405$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	30.56	0.0000	P	32.9
2	☐	1.000	0.889	25316.38	0.0029	P	2.5
3	☐	50.000	44.325	1312407.17	0.1457	P	1.4
4	☐	125.000	121.352	3525191.05	0.3990	A	1.1
5	☐	250.000	243.218	7060188.52	0.7996	A	2.4
6	☐	500.000	483.732	14151106.04	1.5904	A	2.0
7	☐	1000.000	1010.569	28608044.39	3.3225	A	0.8
8	☐			4506.44	0.0006	P	8.3

$$y = 0.0033 * x + 3.3341E-006$$

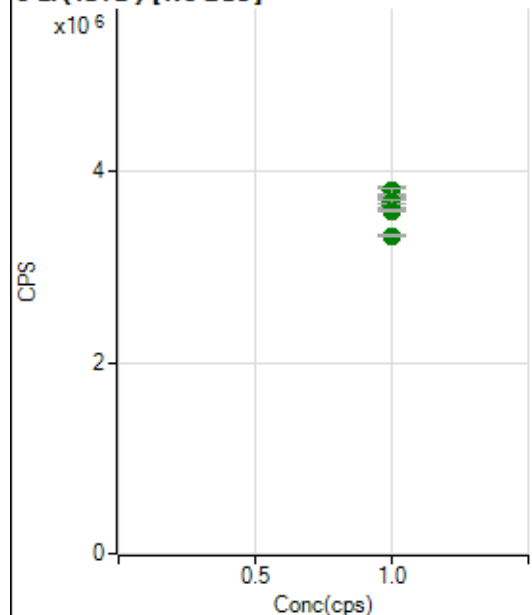
$$R = 0.9998$$

$$DL = 0.0009995$$

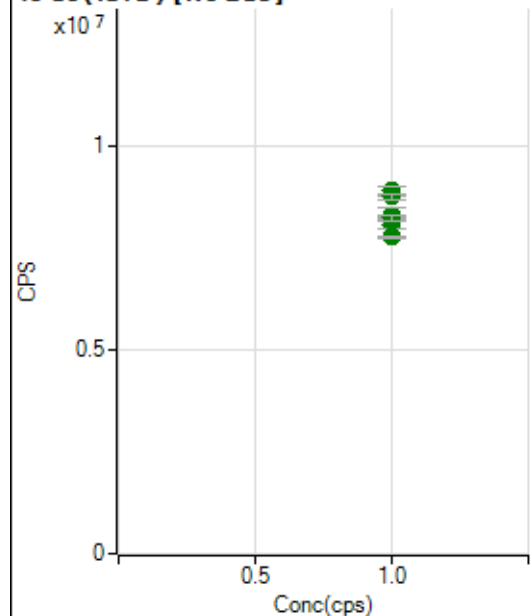
$$BEC = 0.001014$$

Weight: <None>

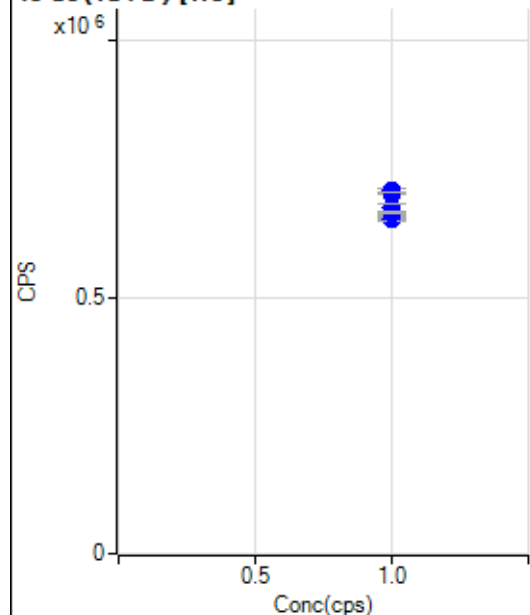
Min Conc: 0

6 Li (ISTD) [No Gas]

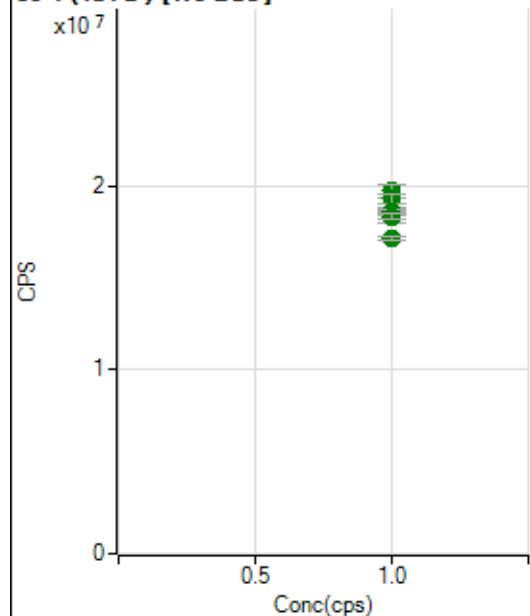
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3795502.30		A	2.8
2	☐	1.000		3649666.86		A	3.1
3	☐	1.000		3797845.08		A	1.5
4	☐	1.000		3687333.73		A	1.2
5	☐	1.000		3679141.16		A	2.9
6	☐	1.000		3681908.90		A	1.2
7	☐	1.000		3589839.95		A	0.7
8	☐	1.000		3328221.89		A	1.0

45 Sc (ISTD) [No Gas]

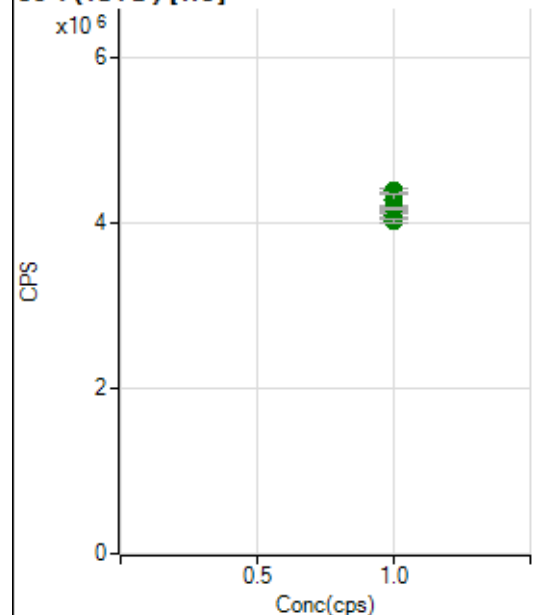
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8884105.01		A	2.8
2	☐	1.000		8309675.99		A	3.8
3	☐	1.000		8742647.86		A	2.0
4	☐	1.000		8259080.78		A	0.8
5	☐	1.000		8060927.38		A	2.8
6	☐	1.000		8163991.13		A	0.8
7	☐	1.000		8226227.24		A	1.9
8	☐	1.000		7748022.87		A	0.3

45 Sc (ISTD) [He]

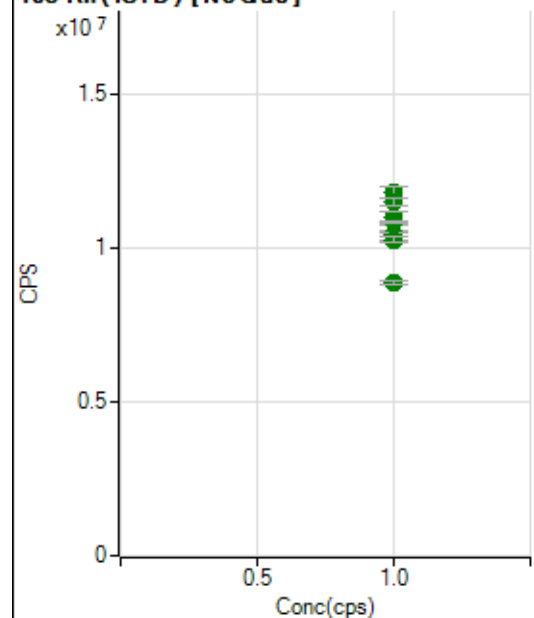
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		707812.11		P	1.3
2	☐	1.000		703003.80		P	0.7
3	☐	1.000		705262.73		P	0.4
4	☐	1.000		674235.75		P	3.1
5	☐	1.000		656528.07		P	1.2
6	☐	1.000		651696.90		P	1.0
7	☐	1.000		664254.55		P	1.4
8	☐	1.000		665686.14		P	0.9

89 Y (ISTD) [No Gas]

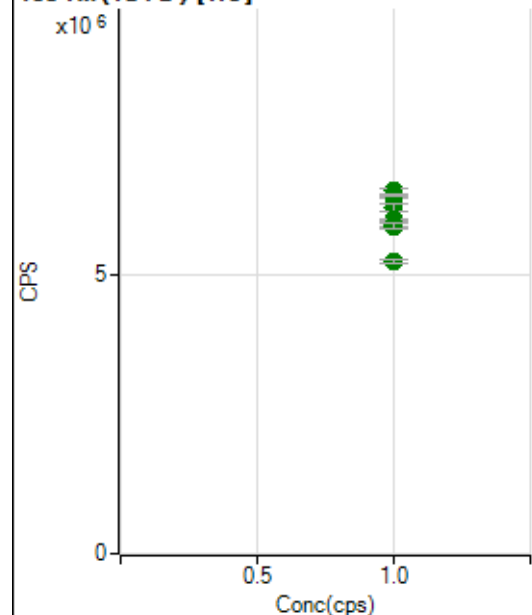
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		19732929.29		A	3.7
2	☐	1.000		18497004.31		A	3.5
3	☐	1.000		19307094.29		A	2.8
4	☐	1.000		18565961.67		A	0.5
5	☐	1.000		18284719.59		A	3.4
6	☐	1.000		18575161.39		A	1.3
7	☐	1.000		18344238.34		A	1.5
8	☐	1.000		17162245.58		A	0.9

89 Y(ISTD) [He]

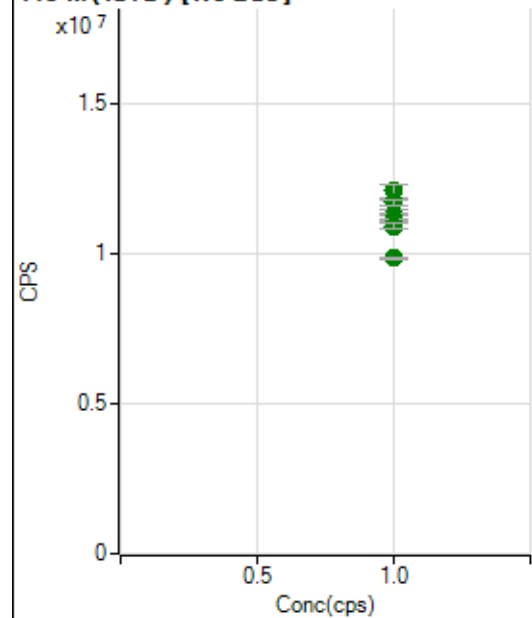
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4390829.48		A	1.4
2	☐	1.000		4360687.12		A	0.3
3	☐	1.000		4365278.89		A	0.6
4	☐	1.000		4283785.15		A	3.0
5	☐	1.000		4139985.18		A	0.7
6	☐	1.000		4091932.33		A	0.8
7	☐	1.000		4183658.27		A	0.4
8	☐	1.000		4035858.93		A	1.1

103 Rh(ISTD) [No Gas]

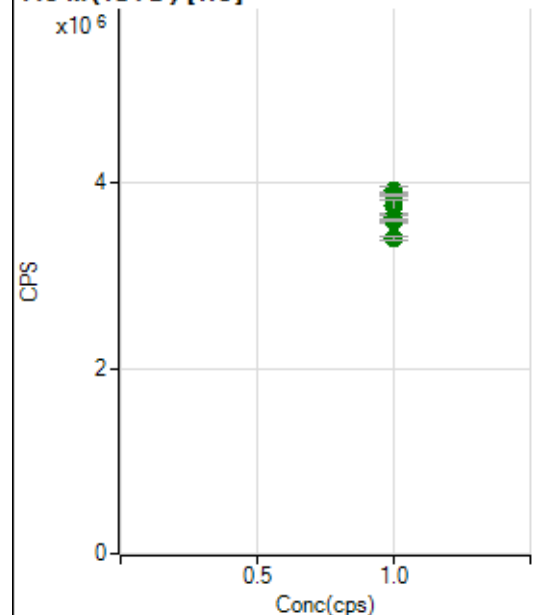
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11803059.13		A	3.2
2	☐	1.000		10993743.45		A	4.0
3	☐	1.000		11505607.47		A	2.0
4	☐	1.000		10861869.49		A	0.6
5	☐	1.000		10432093.32		A	3.0
6	☐	1.000		10443257.41		A	1.1
7	☐	1.000		10269328.11		A	1.7
8	☐	1.000		8872091.12		A	1.1

103 Rh (ISTD) [He]

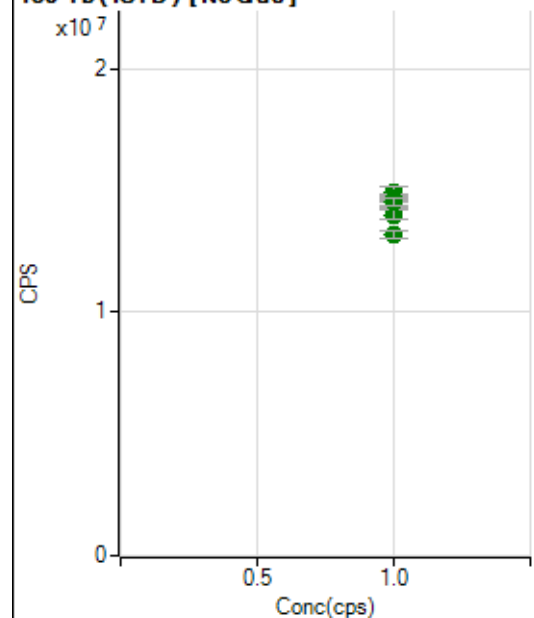
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6487515.11		A	1.5
2	☐	1.000		6378589.90		A	0.6
3	☐	1.000		6416095.32		A	0.9
4	☐	1.000		6178805.05		A	2.4
5	☐	1.000		5980265.81		A	0.5
6	☐	1.000		5873726.72		A	1.2
7	☐	1.000		5860819.43		A	1.4
8	☐	1.000		5228667.15		A	1.8

115 In (ISTD) [No Gas]

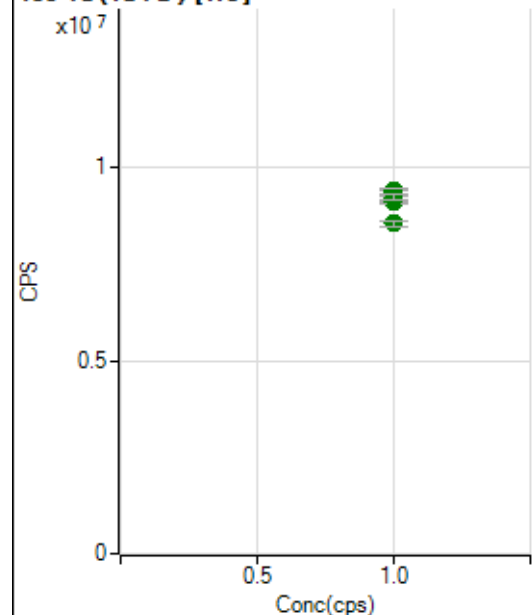
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12077342.15		A	4.0
2	☐	1.000		11252092.60		A	3.3
3	☐	1.000		11683322.59		A	1.8
4	☐	1.000		11295180.63		A	0.5
5	☐	1.000		11024163.49		A	4.0
6	☐	1.000		11147569.96		A	0.0
7	☐	1.000		10891000.64		A	1.8
8	☐	1.000		9831542.11		A	0.8

115 In (ISTD) [He]

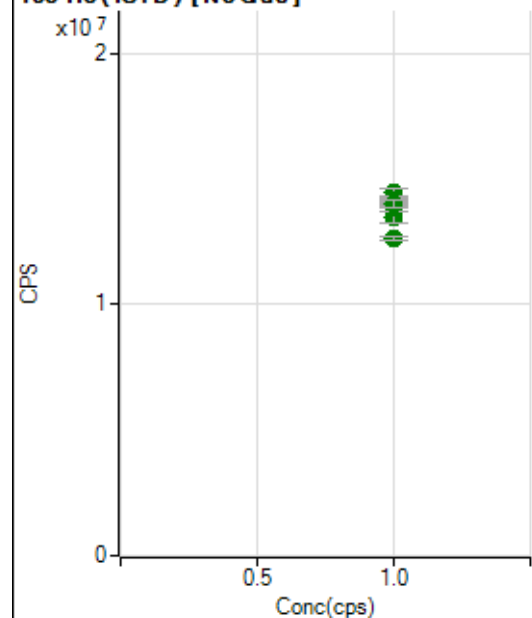
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3912022.99		A	2.0
2	☐	1.000		3883532.27		A	1.0
3	☐	1.000		3872755.02		A	0.7
4	☐	1.000		3743149.31		A	3.5
5	☐	1.000		3625907.79		A	1.8
6	☐	1.000		3580566.90		A	0.4
7	☐	1.000		3594443.11		A	0.9
8	☐	1.000		3398558.62		A	1.5

159 Tb (ISTD) [No Gas]

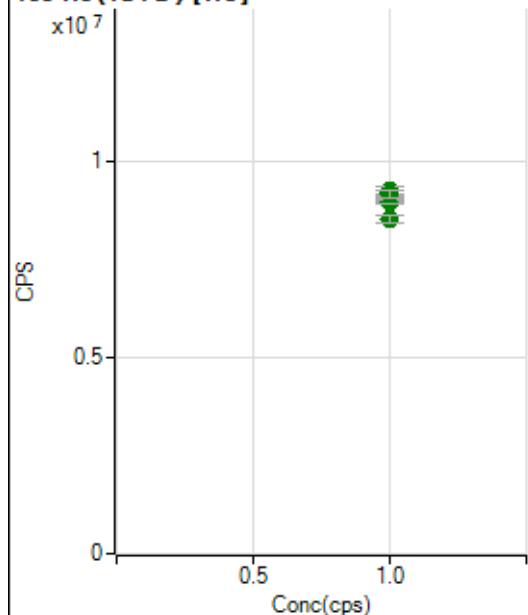
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14897608.81		A	3.3
2	☐	1.000		13991506.18		A	3.0
3	☐	1.000		14707047.42		A	2.4
4	☐	1.000		14534405.62		A	0.3
5	☐	1.000		14514958.81		A	3.4
6	☐	1.000		14615728.67		A	0.5
7	☐	1.000		14522895.06		A	1.9
8	☐	1.000		13157907.31		A	2.4

159 Tb (ISTD) [He]

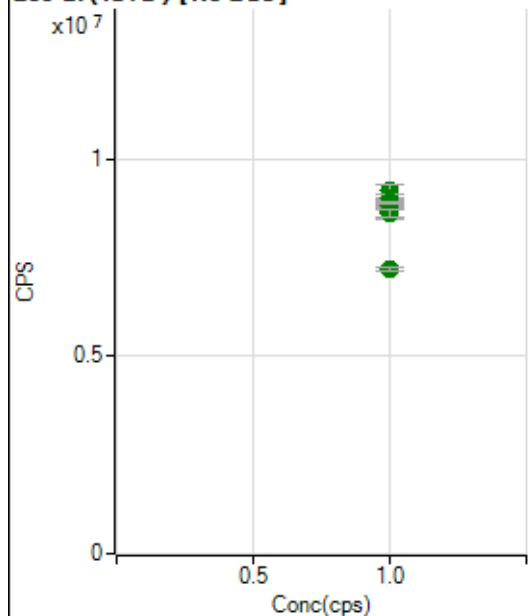
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9334215.49		A	1.1
2	☐	1.000		9227981.53		A	1.1
3	☐	1.000		9320095.28		A	0.3
4	☐	1.000		9390897.08		A	1.7
5	☐	1.000		9100041.39		A	0.7
6	☐	1.000		9107301.74		A	1.1
7	☐	1.000		9229558.75		A	1.9
8	☐	1.000		8538753.00		A	1.4

165 Ho (ISTD) [No Gas]

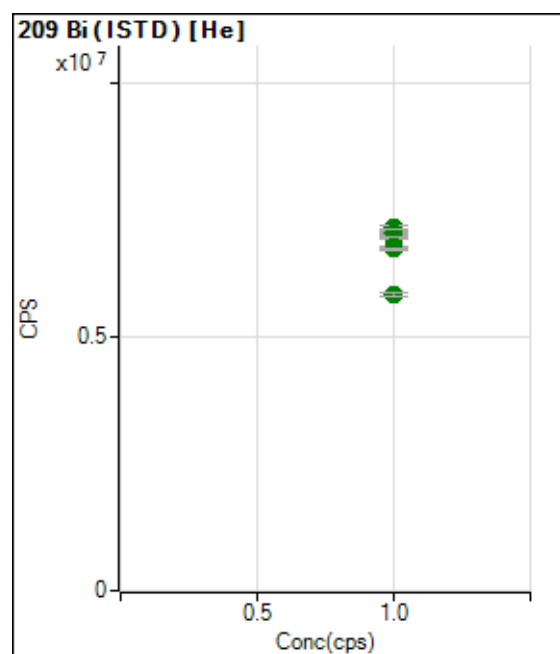
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14441632.98		A	2.9
2	☐	1.000		13436434.52		A	3.4
3	☐	1.000		14150617.01		A	2.0
4	☐	1.000		13876700.90		A	0.5
5	☐	1.000		13984635.76		A	3.7
6	☐	1.000		14001283.96		A	1.7
7	☐	1.000		14004149.79		A	2.0
8	☐	1.000		12644449.81		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9203521.04		A	1.1
2	☐	1.000		9007426.18		A	0.6
3	☐	1.000		9174735.83		A	0.2
4	☐	1.000		9240909.79		A	2.5
5	☐	1.000		9069457.22		A	1.3
6	☐	1.000		8977293.96		A	1.2
7	☐	1.000		9159898.41		A	1.8
8	☐	1.000		8533875.85		A	2.3

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9194262.85		A	3.7
2	☐	1.000		8658554.94		A	4.2
3	☐	1.000		9004013.34		A	2.0
4	☐	1.000		8834964.38		A	1.0
5	☐	1.000		8833181.54		A	2.9
6	☐	1.000		8897865.22		A	0.3
7	☐	1.000		8609806.26		A	2.2
8	☐	1.000		7222277.25		A	1.6



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7143975.52		A	1.8
2	☐	1.000		7048871.70		A	0.8
3	☐	1.000		7048143.16		A	0.2
4	☐	1.000		7046388.09		A	2.0
5	☐	1.000		6937097.47		A	0.7
6	☐	1.000		6772488.30		A	0.5
7	☐	1.000		6728873.30		A	0.7
8	☐	1.000		5819354.22		A	1.4

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7112122-MS.b

Acq. Date-Time 2022-11-21 14:41:38

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		11527	115271.44			1.305	5.000
24		304043	3040433.45			1.336	5.000
25		41412	414119.68			1.254	5.000
26		47049	470491.74			1.527	5.000
59		98804	988042.63			1.580	5.000
113		10452	104521.36			1.147	5.000
115		136469	1364686.68			1.183	5.000
206		30311	303110.38			1.009	5.000
207		27729	277285.99			1.129	5.000
208		65462	654620.85			1.104	5.000
220		0	3.30			13.552	

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

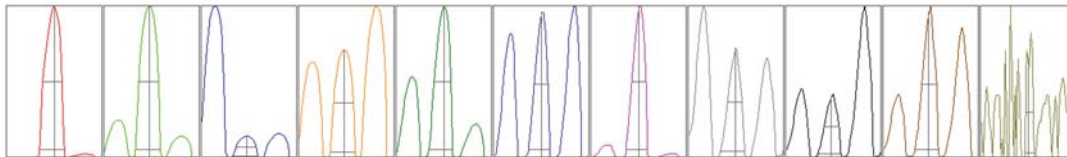
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	11302	11513	11523	11577	11720
24	298858	302217	304020	305218	309904
25	40612	41436	41584	41379	42050
26	45980	47050	46921	47341	47954
59	96631	99386	98922	98203	100880
113	10277	10457	10427	10489	10610
115	133692	136558	136915	137600	137578
206	29791	30367	30600	30372	30425
207	27287	27641	27824	27738	28153
208	64307	65851	65559	65366	66227

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	20726.85	9.05	8.90 - 9.10	
24	512858.66	23.95	23.90 - 24.10	
25	69741.39	24.95	24.90 - 25.10	
26	79135.29	25.95	25.90 - 26.10	
59	194121.05	59.05	58.90 - 59.10	
113	24576.52	113.05	112.90 - 113.10	
115	310644.90	115.05	114.90 - 115.10	
206	67736.03	206.00	205.90 - 206.10	
207	59198.07	206.95	206.90 - 207.10	
208	142404.57	207.95	207.90 - 208.10	
220	0.50	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.783	0.900	
24	0.62	0.787	0.900	
25	0.63	0.784	0.900	
26	0.64	0.787	0.900	
59	0.52	0.749	0.900	
113	0.43	0.677	0.900	
115	0.45	0.676	0.900	
206	0.45	0.769	0.900	
207	0.47	0.726	0.900	
208	0.47	0.734	0.900	
220	0.26	0.296		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.9 V	Deflect	15.2 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2225 V	Pulse HV	1442 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		32701	327009.57			1.504	
89		103485	1034849.49			1.842	
205		29839	298388.63			1.361	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	33507	32198	32451	32680	32668
89	106348	101572	102499	104428	102578
205	30368	29321	29789	29626	30091

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	10.3 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	123	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	0.9 mm
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EM

Discriminator	3.1 mV	Analog HV	2225 V	Pulse HV	1442 V
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