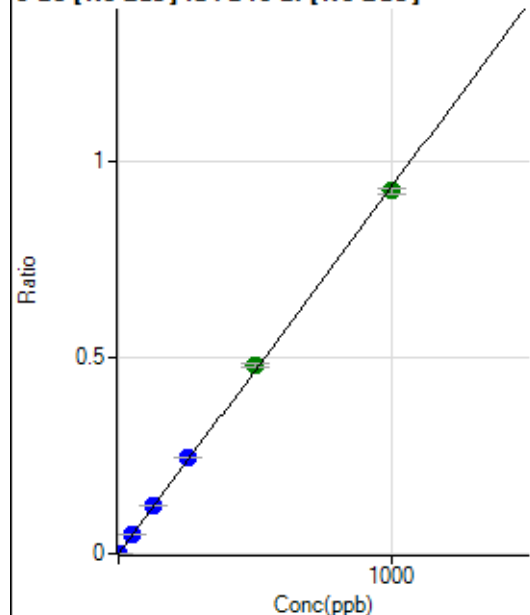


Calibration for 006CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7031322MS.b\
 Analysis File: P7031322MS.batch.bin
 DA Date-Time: 2022-03-14 21:11:05
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2022-03-13 14:31:35
2	004CALS.d	S02	2022-03-13 14:34:31
3	006CALS.d	S03	2022-03-13 14:40:19
4	007CALS.d	S04	2022-03-13 14:43:04
5	008CALS.d	S05	2022-03-13 14:45:51
6	009CALS.d	S06	2022-03-13 14:48:36
7	010CALS.d	S07	2022-03-13 14:51:23
8	011CALS.d	S08	2022-03-13 14:54:07

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	35.56	0.0000	P	56.0
2	☐	1.000	1.056	3291.49	0.0010	P	4.0
3	☐	50.000	51.526	160776.95	0.0482	P	0.5
4	☐	125.000	131.759	395220.55	0.1233	P	1.6
5	☐	250.000	262.626	759488.80	0.2458	P	1.0
6	☐	500.000	513.542	1448876.87	0.4807	A	2.2
7	☐	1000.000	989.151	2815338.60	0.9258	A	1.9
8	☐			323.34	0.0001	P	19.3

$$y = 9.3597\text{E-}004 * x + 1.0643\text{E-}005$$

$$R = 0.9998$$

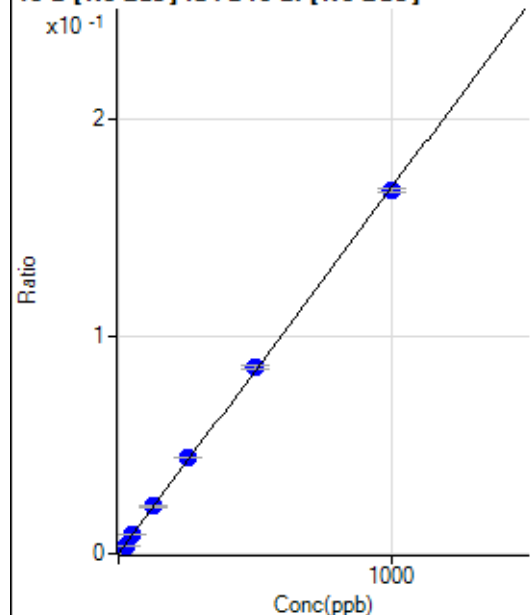
$$DL = 0.0191$$

$$BEC = 0.01137$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	163.90	0.0000	P	20.1
2	☐	25.000	21.438	12057.77	0.0037	P	3.7
3	☐	50.000	52.124	29431.26	0.0088	P	2.5
4	☐	125.000	129.259	69966.18	0.0218	P	2.0
5	☐	250.000	263.707	137435.03	0.0445	P	1.0
6	☐	500.000	509.123	258726.07	0.0858	P	1.8
7	☐	1000.000	991.462	508201.96	0.1671	P	0.9
8	☐			11532.33	0.0039	P	10.1

$$y = 1.6846\text{E-}004 * x + 4.9141\text{E-}005$$

$$R = 0.9998$$

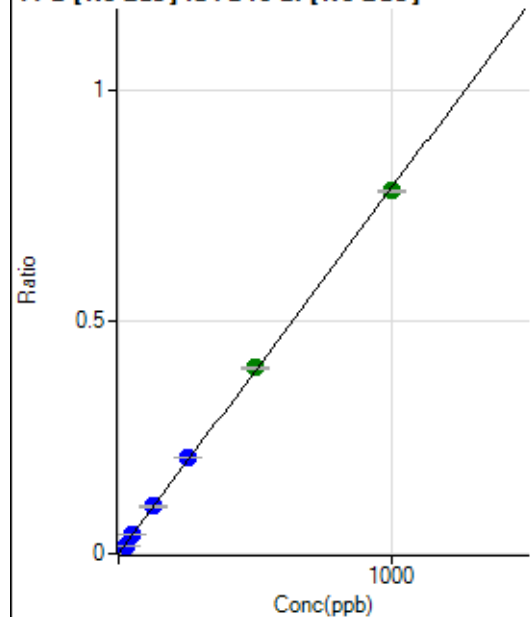
$$DL = 0.1757$$

$$BEC = 0.2917$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	641.70	0.0002	P	8.1
2	☐	25.000	21.795	57209.18	0.0174	P	4.3
3	☐	50.000	51.452	135777.72	0.0407	P	3.3
4	☐	125.000	128.694	325693.24	0.1016	P	1.9
5	☐	250.000	262.525	639886.26	0.2070	P	1.8
6	☐	500.000	508.613	1208861.02	0.4010	A	1.2
7	☐	1000.000	992.108	2378237.58	0.7819	A	0.3
8	☐			53100.30	0.0180	P	13.2

$$y = 7.8794\text{E-}004 * x + 1.9247\text{E-}004$$

$$R = 0.9998$$

$$DL = 0.05925$$

$$BEC = 0.2443$$

Weight: <None>

Min Conc: 0

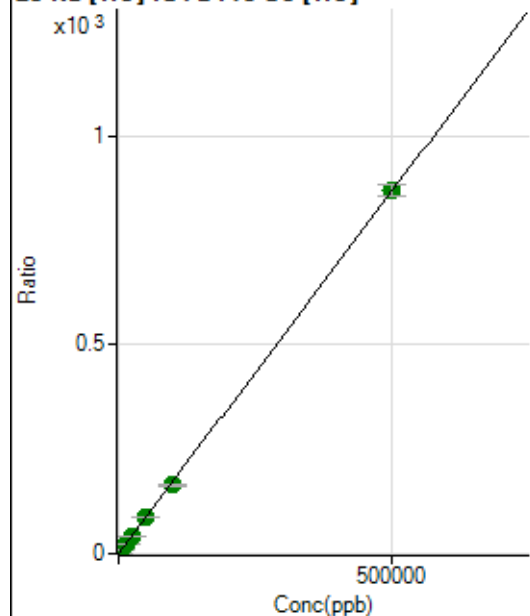
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19151.01	0.0285	P	1.0
2	☐	500.000	486.449	577633.47	0.8718	P	0.4
3	☐	5000.000	4972.989	5801127.39	8.6494	A	0.2
4	☐	12500.000	12595.017	14403853.68	21.8626	A	0.4
5	☐	25000.000	24904.713	27468615.66	43.2021	A	0.5
6	☐	50000.000	49354.063	52501492.84	85.5862	A	0.2
7	☐	100000.00	95190.769	103731984.73	165.0463	A	2.0
8	☐	500000.00	501029.11	550437956.75	868.5867	A	3.0

$$y = 0.0017 * x + 0.0285$$

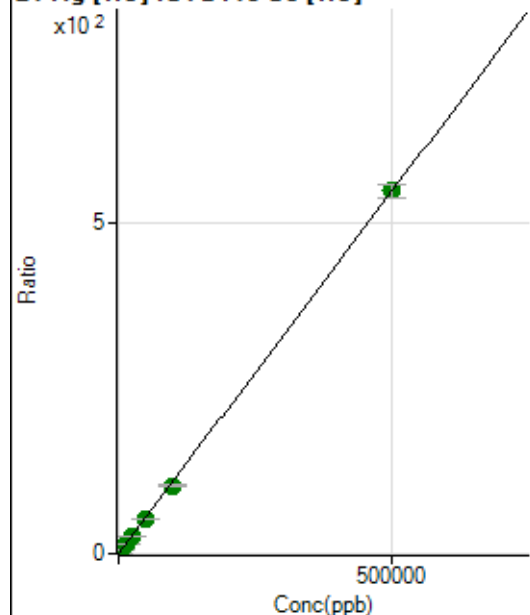
$$R = 0.9999$$

$$DL = 0.5176$$

$$BEC = 16.46$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	370.38	0.0006	P	7.4
2	☐	500.000	483.088	350059.49	0.5283	P	0.9
3	☐	5000.000	4915.283	3602016.02	5.3707	A	0.5
4	☐	12500.000	12505.084	9001539.32	13.6629	A	1.1
5	☐	25000.000	24632.803	17111289.15	26.9130	A	1.1
6	☐	50000.000	48347.628	32403110.91	52.8225	A	0.8
7	☐	100000.00	94310.764	64771626.91	103.0394	A	1.3
8	☐	500000.00	501322.18	347040585.53	547.7178	A	4.0

$$y = 0.0011 * x + 5.5181E-004$$

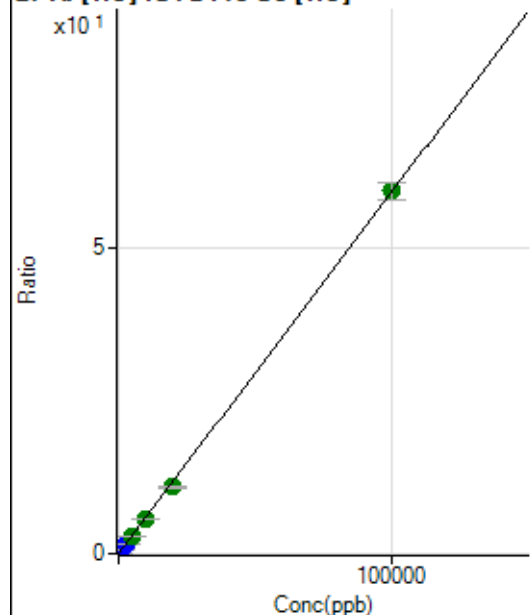
$$R = 0.9999$$

$$DL = 0.1115$$

$$BEC = 0.5051$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	209.26	0.0003	P	7.6
2	☐	20.000	19.547	7878.07	0.0119	P	0.9
3	☐	1000.000	962.016	382376.03	0.5701	P	1.1
4	☐	2500.000	2437.288	951336.00	1.4440	P	0.6
5	☐	5000.000	4854.939	1828576.49	2.8760	A	0.6
6	☐	10000.000	9547.653	3469279.56	5.6555	A	1.1
7	☐	20000.000	18466.424	6875086.50	10.9382	A	2.4
8	☐	100000.00	100361.15	37661116.12	59.4457	A	4.5

$$y = 5.9231E-004 * x + 3.1164E-004$$

$$R = 0.9999$$

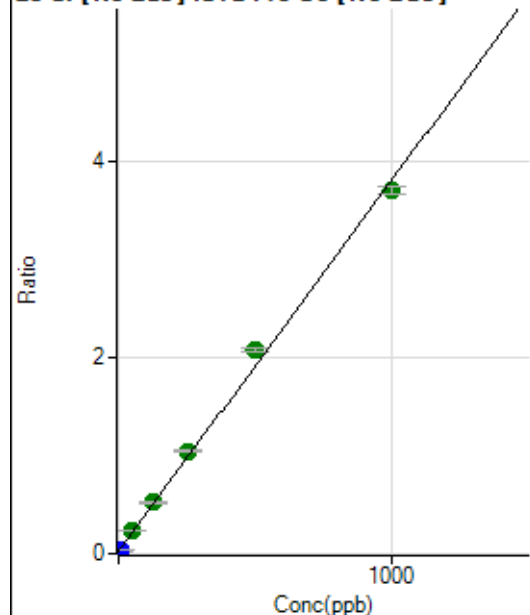
$$DL = 0.1194$$

$$BEC = 0.5261$$

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	172914.50	0.0245	P	3.2
2	☐	10.000	3.354	262762.14	0.0372	P	1.4
3	☐	50.000	54.916	1649465.71	0.2324	A	1.9
4	☐	125.000	131.481	3531484.24	0.5222	A	3.2
5	☐	250.000	269.350	6856713.70	1.0440	A	2.5
6	☐	500.000	543.817	13426847.78	2.0828	A	1.3
7	☐	1000.000	972.265	24741349.69	3.7045	A	2.2
8	☐			607709.98	0.0931	P	5.9

$$y = 0.0038 * x + 0.0245$$

$$R = 0.9982$$

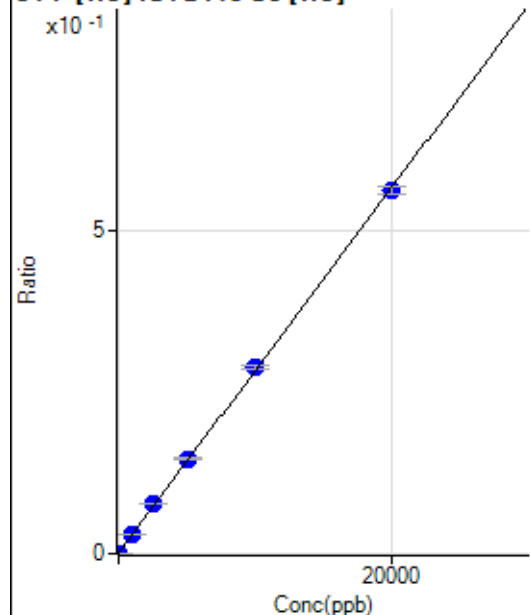
$$DL = 0.6237$$

$$BEC = 6.476$$

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	-12.884	427.79	0.0006	P	5.7
2	☐	0.000	12.884	902.83	0.0014	P	13.0
3	☐	1000.000	1021.493	19971.79	0.0298	P	0.8
4	☐	2500.000	2697.959	50740.11	0.0770	P	1.3
5	☐	5000.000	5165.537	93169.25	0.1465	P	1.0
6	☐	10000.000	10186.058	176661.41	0.2880	P	2.5
7	☐	20000.000	19839.767	351934.74	0.5600	P	2.0
8	☐			558.36	0.0009	P	8.3

$$y = 2.8173E-005 * x + 0.0010$$

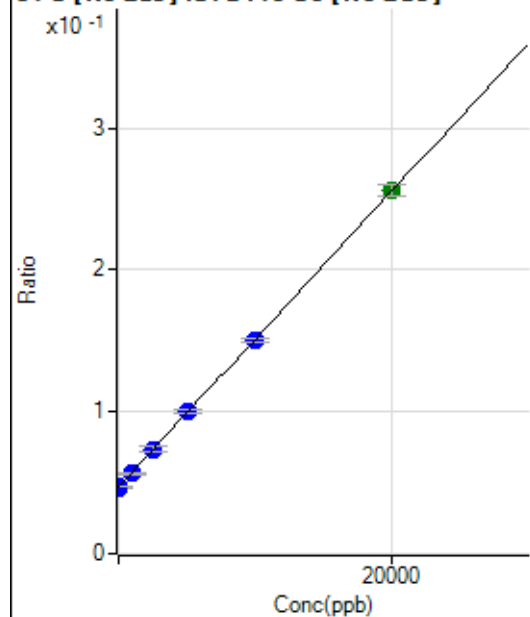
$$R = 0.9999$$

$$DL = 11.35$$

$$BEC = 35.5$$

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	-31.705	329586.45	0.0467	P	2.2
2	☐	0.000	31.705	334559.33	0.0474	P	2.2
3	☐	1000.000	894.472	400174.20	0.0564	P	2.5
4	☐	2500.000	2566.767	499163.02	0.0738	P	4.1
5	☐	5000.000	5101.156	658366.87	0.1003	P	3.1
6	☐	10000.000	9910.843	969610.25	0.1504	P	1.4
7	☐	20000.000	20016.220	1708280.44	0.2558	A	3.0
8	☐			247573.51	0.0380	P	1.4

$$y = 1.0429E-005 * x + 0.0471$$

R = 0.9999

DL = 298.3

BEC = 4512

Weight: <None>

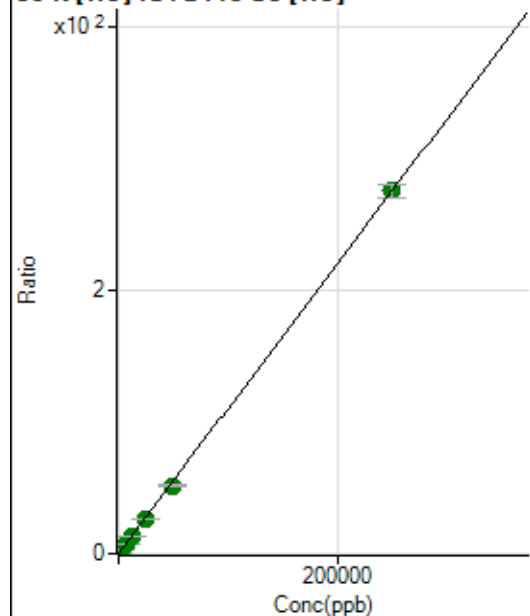
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	34333.66	0.0511	P	0.8
2	☐	500.000	503.652	399948.68	0.6036	P	0.7
3	☐	2500.000	2444.471	1832805.40	2.7326	A	1.4
4	☐	6250.000	6185.076	4503711.78	6.8359	A	0.5
5	☐	12500.000	12222.545	8556985.09	13.4587	A	0.8
6	☐	25000.000	24035.963	16205467.72	26.4175	A	0.6
7	☐	50000.000	46837.501	32323855.93	51.4297	A	2.0
8	☐	250000.00	250744.94	174324880.29	275.1066	A	3.6

$$y = 0.0011 * x + 0.0511$$

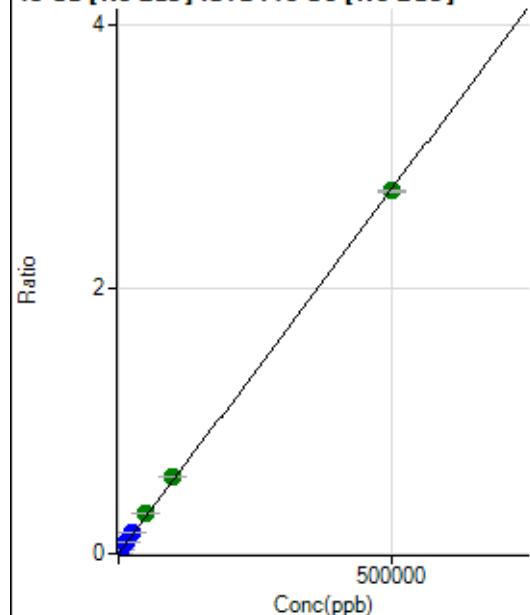
$$R = 0.9999$$

$$DL = 1.051$$

$$BEC = 46.62$$

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	158.34	0.0000	P	21.6
2	☐	500.000	526.358	20628.29	0.0029	P	0.9
3	☐	5000.000	5777.130	225990.30	0.0318	P	1.3
4	☐	12500.000	15020.138	559545.87	0.0827	P	3.2
5	☐	25000.000	29683.078	1073746.52	0.1635	P	2.3
6	☐	50000.000	55239.067	1961173.01	0.3042	A	0.7
7	☐	100000.00	105764.64	3890559.90	0.5824	A	1.1
8	☐	500000.00	498018.20	17883596.06	2.7424	A	0.5

$$y = 5.5067\text{E-}006 * x + 2.2459\text{E-}005$$

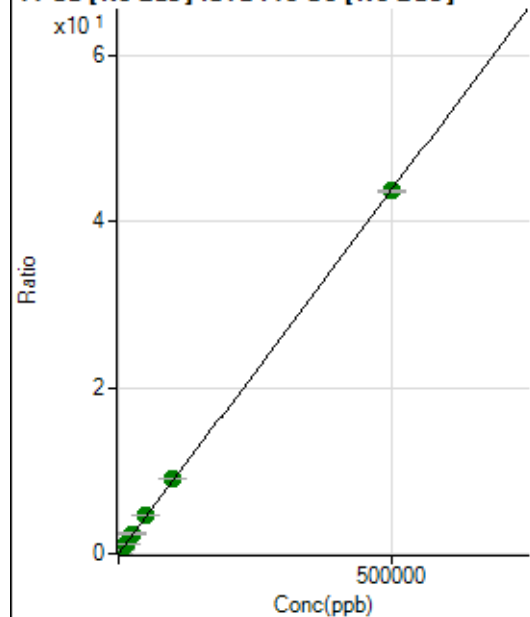
$$R = 0.9999$$

$$DL = 2.644$$

$$BEC = 4.078$$

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	8983.69	0.0013	P	3.6
2	☐	500.000	533.131	338446.92	0.0479	P	1.6
3	☐	5000.000	5361.715	3339988.18	0.4705	A	0.8
4	☐	12500.000	13955.540	8268350.01	1.2225	A	3.2
5	☐	25000.000	27499.866	15813876.57	2.4078	A	2.6
6	☐	50000.000	53337.524	30097803.11	4.6689	A	1.3
7	☐	100000.00	102946.32	60177235.37	9.0102	A	2.1
8	☐	500000.00	498911.95	284722750.81	43.6613	A	0.7

$$y = 8.7511\text{E-}005 * x + 0.0013$$

$$R = 1.0000$$

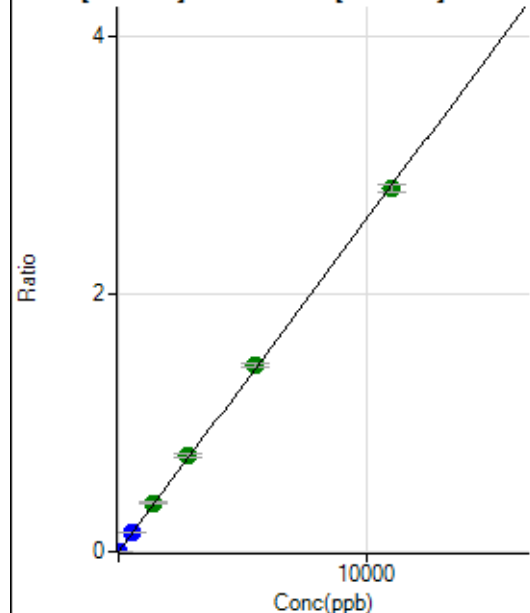
$$DL = 1.575$$

$$BEC = 14.55$$

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	58.34	0.0000	P	13.9
2	☐	5.000	4.943	9086.29	0.0013	P	2.0
3	☐	550.000	560.060	1028316.39	0.1449	P	1.2
4	☐	1375.000	1463.453	2560166.94	0.3785	A	2.8
5	☐	2750.000	2886.750	4903620.03	0.7466	A	2.6
6	☐	5500.000	5604.068	9343714.96	1.4494	A	1.1
7	☐	11000.000	10902.219	18831991.22	2.8197	A	2.2
8	☐			4206.25	0.0006	P	3.5

$$y = 2.5863\text{E-}004 * x + 8.2650\text{E-}006$$

$$R = 0.9998$$

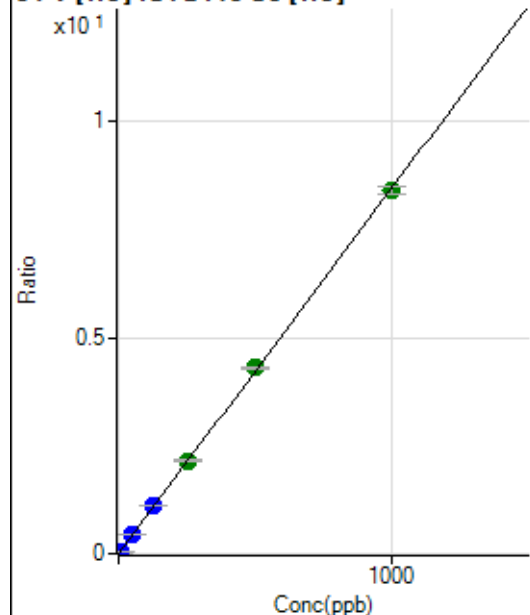
$$DL = 0.01329$$

$$BEC = 0.03196$$

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	10.00	0.0000	P	67.0
2	☐	5.000	5.091	28479.10	0.0430	P	0.3
3	☐	50.000	51.368	290784.43	0.4336	P	0.7
4	☐	125.000	130.046	723164.52	1.0976	P	0.4
5	☐	250.000	255.027	1368567.39	2.1525	A	0.6
6	☐	500.000	508.764	2634126.75	4.2941	A	0.5
7	☐	1000.000	993.662	5271227.80	8.3867	A	2.0
8	☐			967.82	0.0015	P	5.1

$$y = 0.0084 * x + 1.4930\text{E-}005$$

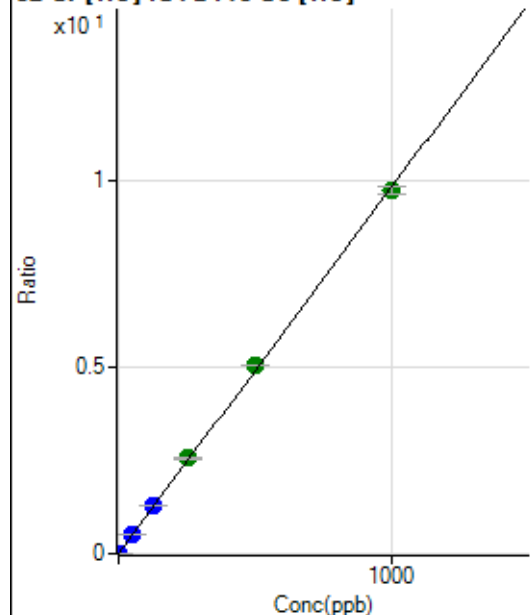
$$R = 0.9999$$

$$DL = 0.003556$$

$$BEC = 0.001769$$

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	2742.49	0.0041	P	3.0
2	☐	2.000	2.079	16227.69	0.0245	P	2.1
3	☐	50.000	52.272	346819.39	0.5171	P	0.5
4	☐	125.000	132.945	862363.07	1.3089	P	0.3
5	☐	250.000	260.530	1628299.39	2.5611	A	1.4
6	☐	500.000	512.098	3085665.37	5.0301	A	0.2
7	☐	1000.000	990.211	6110796.57	9.7227	A	2.0
8	☐			25361.40	0.0400	P	3.9

$$y = 0.0098 * x + 0.0041$$

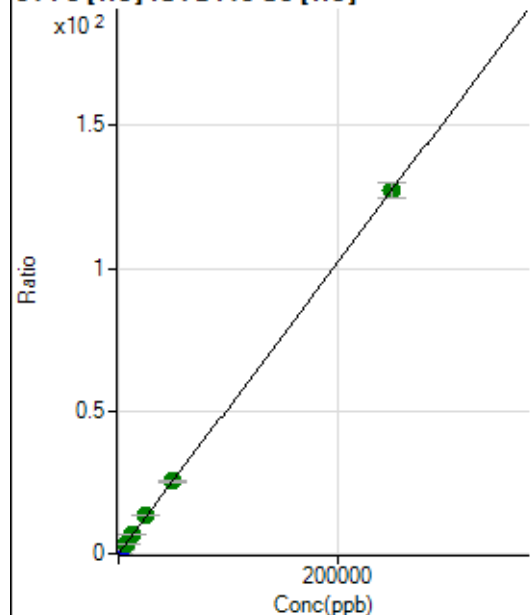
$$R = 0.9998$$

$$DL = 0.03755$$

$$BEC = 0.4162$$

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	1811.98	0.0027	P	8.4
2	☐	50.000	54.062	20010.43	0.0302	P	1.9
3	☐	2500.000	2697.384	922185.93	1.3750	P	0.4
4	☐	6250.000	6677.974	2240158.60	3.4001	A	1.6
5	☐	12500.000	13166.685	4260533.20	6.7012	A	1.6
6	☐	25000.000	25928.056	8093452.70	13.1936	A	0.7
7	☐	50000.000	49782.265	15918741.41	25.3294	A	2.5
8	☐	250000.00	249904.73	80551769.77	127.1416	A	4.2

$$y = 5.0875E-004 * x + 0.0027$$

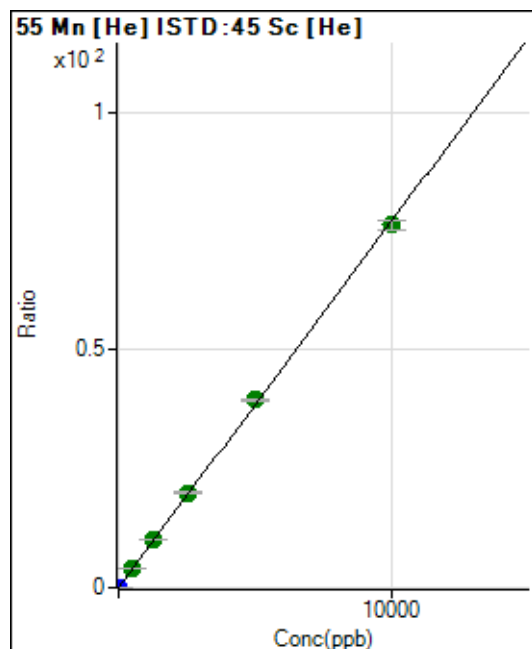
$$R = 1.0000$$

$$DL = 1.338$$

$$BEC = 5.305$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	378.90	0.0006	P	10.0
2	☐	1.000	1.043	5702.24	0.0086	P	1.0
3	☐	500.000	519.230	2684351.54	4.0023	A	1.2
4	☐	1250.000	1312.614	6665376.43	10.1169	A	0.4
5	☐	2500.000	2594.538	12713932.17	19.9967	A	0.7
6	☐	5000.000	5131.031	24258799.64	39.5456	A	0.6
7	☐	10000.000	9902.062	47962031.51	76.3160	A	2.7
8	☐			28286.61	0.0446	P	3.9

$$y = 0.0077 * x + 5.6422E-004$$

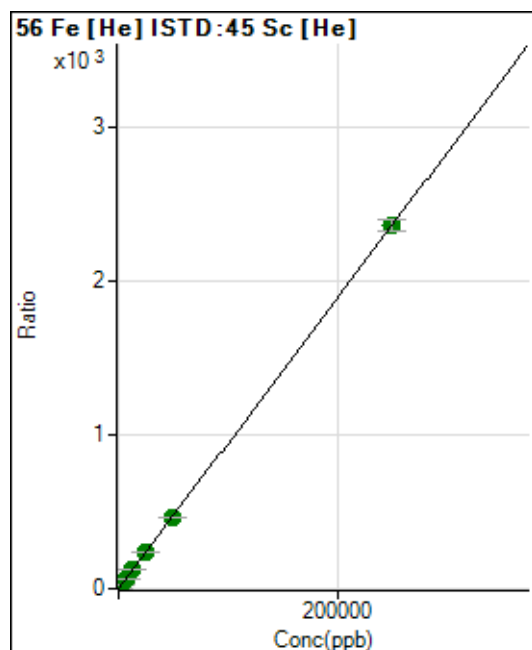
$$R = 0.9998$$

$$DL = 0.02206$$

$$BEC = 0.07321$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	14321.81	0.0213	P	2.2
2	☐	50.000	51.850	337903.81	0.5100	P	0.3
3	☐	2500.000	2568.875	16251892.73	24.2315	A	0.5
4	☐	6250.000	6554.419	40712235.63	61.7930	A	1.0
5	☐	12500.000	12927.857	77478263.77	121.8590	A	0.6
6	☐	25000.000	25505.965	147471823.67	240.4005	A	1.0
7	☐	50000.000	49017.030	290360880.57	461.9789	A	2.0
8	☐	250000.00	250116.30	1493805959.3	2,357.225	A	3.2

$$y = 0.0094 * x + 0.0213$$

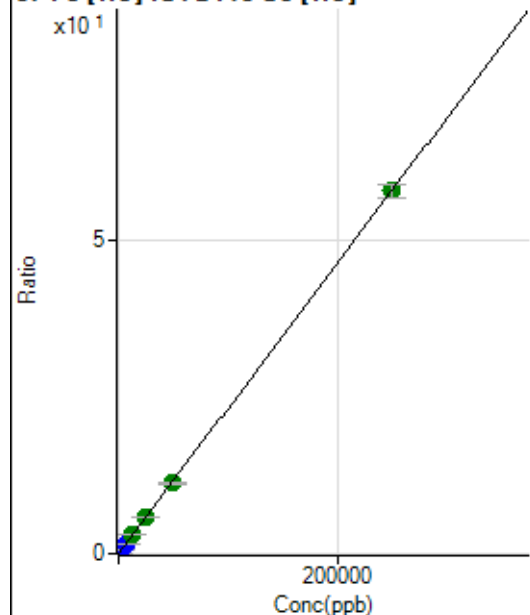
$$R = 1.0000$$

$$DL = 0.1521$$

$$BEC = 2.264$$

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	331.49	0.0005	P	15.9
2	☐	50.000	53.778	8584.07	0.0130	P	4.5
3	☐	2500.000	2626.402	408409.89	0.6089	P	0.5
4	☐	6250.000	6724.061	1026617.23	1.5582	P	0.9
5	☐	12500.000	12965.105	1909979.57	3.0040	A	1.0
6	☐	25000.000	25535.132	3629175.78	5.9160	A	1.4
7	☐	50000.000	48696.451	7090988.99	11.2817	A	1.6
8	☐	250000.00	250170.82	36724223.04	57.9558	A	3.6

$$y = 2.3166\text{E-}004 * x + 4.9373\text{E-}004$$

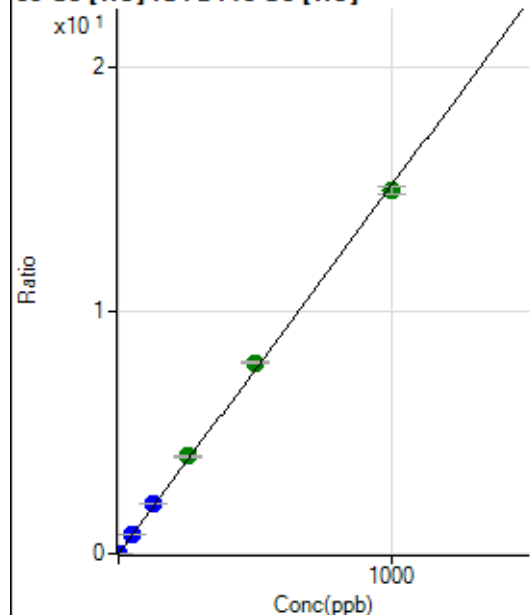
$$R = 1.0000$$

$$DL = 1.014$$

$$BEC = 2.131$$

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	193.34	0.0003	P	17.5
2	☐	1.000	1.069	10930.73	0.0165	P	1.7
3	☐	50.000	52.890	537773.76	0.8018	P	0.4
4	☐	125.000	134.252	1340636.26	2.0348	P	0.8
5	☐	250.000	263.972	2543658.74	4.0007	A	0.5
6	☐	500.000	519.133	4826259.51	7.8676	A	0.4
7	☐	1000.000	985.639	9388405.63	14.9374	A	2.2
8	☐			25137.78	0.0397	P	1.4

$$y = 0.0152 * x + 2.8799\text{E-}004$$

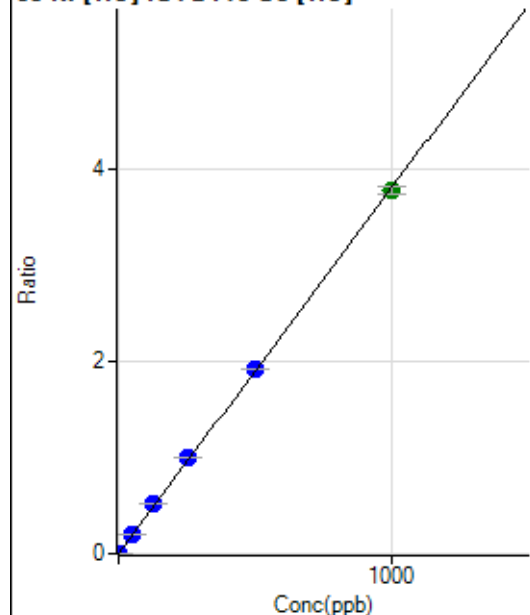
$$R = 0.9996$$

$$DL = 0.009988$$

$$BEC = 0.019$$

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	64.44	0.0001	P	43.4
2	☐	1.000	1.007	2602.48	0.0039	P	4.2
3	☐	50.000	53.677	137002.04	0.2043	P	0.8
4	☐	125.000	135.201	338894.25	0.5144	P	0.5
5	☐	250.000	261.941	633549.15	0.9965	P	0.7
6	☐	500.000	506.558	1182038.43	1.9269	P	0.4
7	☐	1000.000	992.277	2372364.04	3.7745	A	2.0
8	☐			9573.13	0.0151	P	3.3

$$y = 0.0038 * x + 9.6130E-005$$

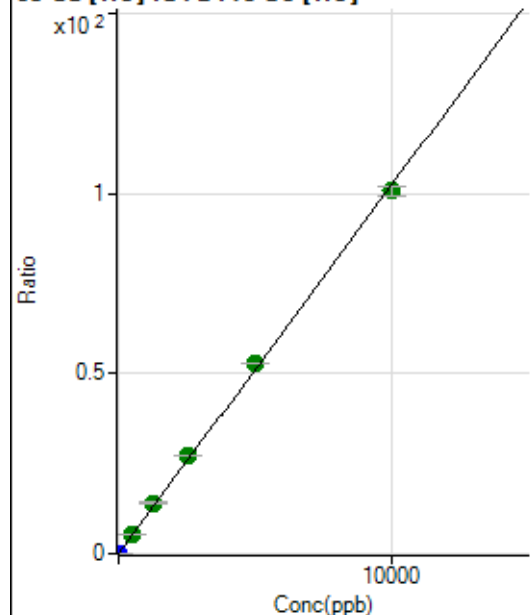
$$R = 0.9999$$

$$DL = 0.03288$$

$$BEC = 0.02527$$

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	1027.82	0.0015	P	4.3
2	☐	2.000	2.146	15565.93	0.0235	P	3.1
3	☐	500.000	542.924	3727905.43	5.5585	A	0.8
4	☐	1250.000	1379.460	9302969.65	14.1206	A	0.8
5	☐	2500.000	2668.341	17365571.41	27.3126	A	0.5
6	☐	5000.000	5186.193	32563103.40	53.0833	A	0.1
7	☐	10000.000	9846.490	63340359.61	100.7825	A	2.5
8	☐			27867.10	0.0440	P	3.1

$$y = 0.0102 * x + 0.0015$$

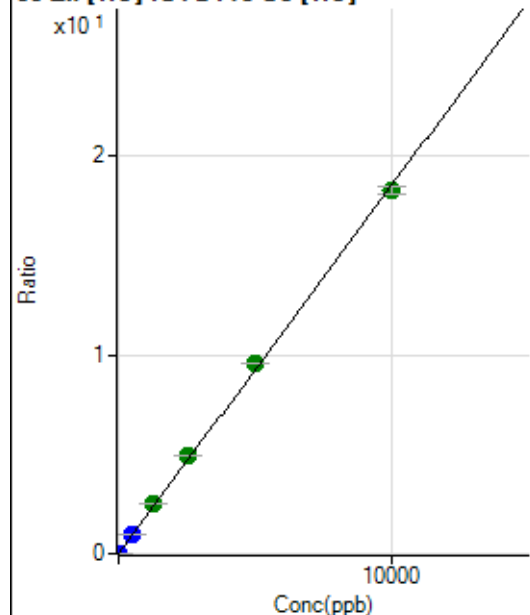
$$R = 0.9995$$

$$DL = 0.01926$$

$$BEC = 0.1496$$

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	606.69	0.0009	P	3.8
2	☐	2.000	2.084	3153.69	0.0048	P	2.5
3	☐	500.000	526.576	654192.21	0.9754	P	1.0
4	☐	1250.000	1356.381	1654365.81	2.5112	A	1.9
5	☐	2500.000	2641.138	3108424.36	4.8889	A	0.2
6	☐	5000.000	5188.922	5891435.19	9.6041	A	0.2
7	☐	10000.000	9855.628	11464389.69	18.2408	A	2.1
8	☐			14874.15	0.0235	P	4.6

$$y = 0.0019 * x + 9.0362E-004$$

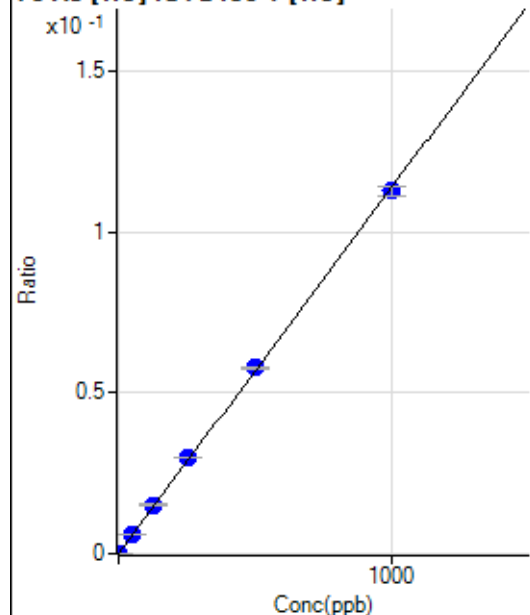
$$R = 0.9996$$

$$DL = 0.05498$$

$$BEC = 0.4883$$

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	11.73	0.0000	P	66.2
2	☐	1.000	1.089	828.42	0.0001	P	12.7
3	☐	50.000	52.221	39316.50	0.0059	P	0.7
4	☐	125.000	133.615	98747.07	0.0152	P	1.2
5	☐	250.000	262.010	187618.76	0.0298	P	0.7
6	☐	500.000	508.789	357343.33	0.0579	P	1.3
7	☐	1000.000	991.415	703369.24	0.1128	P	2.5
8	☐			309.26	0.0001	P	3.7

$$y = 1.1375E-004 * x + 1.7610E-006$$

$$R = 0.9998$$

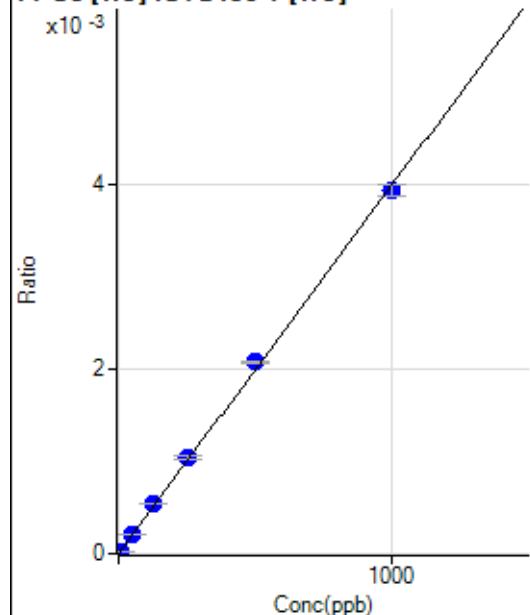
$$DL = 0.03076$$

$$BEC = 0.01548$$

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	0.00	0.0000	P	
2	☐	5.000	5.617	147.78	0.0000	P	26.5
3	☐	50.000	53.431	1411.19	0.0002	P	1.6
4	☐	125.000	135.188	3506.00	0.0005	P	1.1
5	☐	250.000	260.402	6542.62	0.0010	P	3.3
6	☐	500.000	520.266	12822.32	0.0021	P	1.0
7	☐	1000.000	985.818	24539.30	0.0039	P	3.3
8	☐			5.55	0.0000	P	68.2

$$y = 3.9913\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

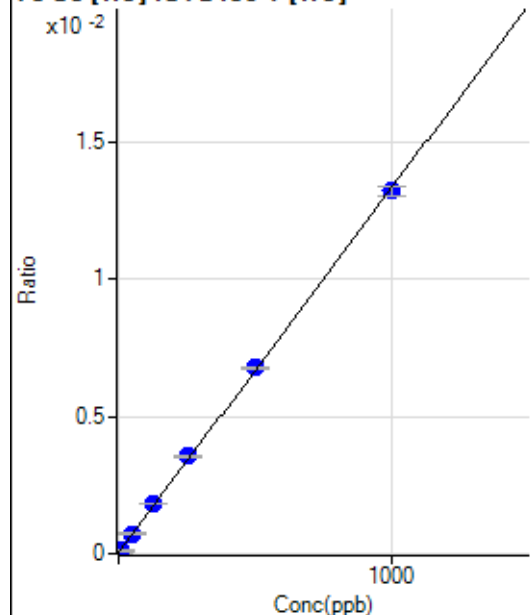
$$DL = 0$$

$$BEC = 0$$

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	227.16	0.0000	P	9.4
2	☐	5.000	5.406	697.55	0.0001	P	4.6
3	☐	50.000	52.736	4854.52	0.0007	P	1.1
4	☐	125.000	134.605	11820.18	0.0018	P	3.1
5	☐	250.000	263.834	22247.53	0.0035	P	0.2
6	☐	500.000	506.325	41686.68	0.0068	P	0.6
7	☐	1000.000	992.040	82297.47	0.0132	P	2.5
8	☐			238.89	0.0000	P	18.8

$$y = 1.3266\text{E-}005 * x + 3.4049\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.7206$$

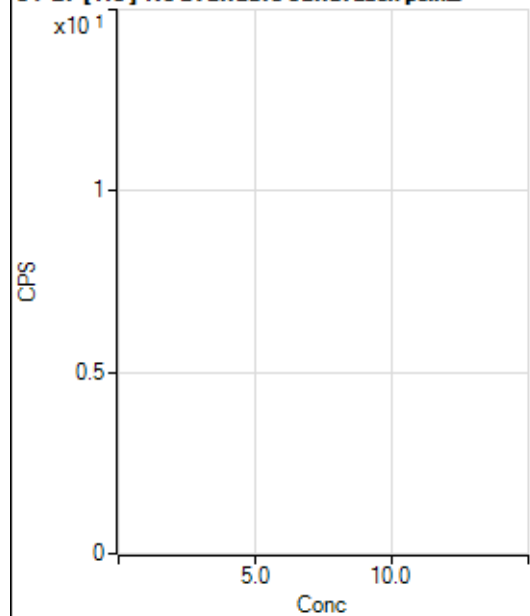
$$BEC = 2.567$$

Weight: <None>

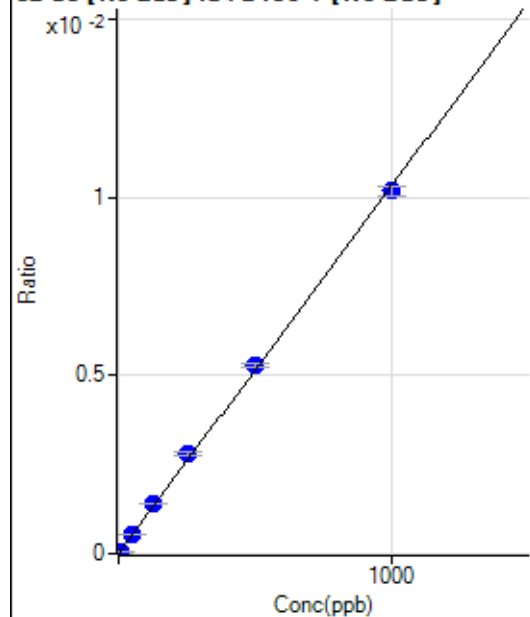
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6521.07		P	0.9
2	☐			6743.37		P	2.6
3	☐			6432.10		P	5.3
4	☐			6284.83		P	1.9
5	☐			5829.08		P	4.9
6	☐			6229.27		P	2.9
7	☐			5751.29		P	5.6
8	☐			5890.22		P	2.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			46.71		P	65.5
2	☐			76.74		P	52.7
3	☐			76.74		P	52.7
4	☐			60.06		P	28.9
5	☐			76.74		P	7.5
6	☐			73.41		P	41.7
7	☐			80.08		P	43.3
8	☐			146.82		P	19.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	177.72	0.0000	P	169.5
2	☐	5.000	4.486	1281.71	0.0001	P	8.9
3	☐	50.000	51.941	13062.17	0.0005	P	2.0
4	☐	125.000	136.981	32838.66	0.0014	P	1.3
5	☐	250.000	271.167	63959.83	0.0028	P	2.8
6	☐	500.000	511.856	119564.35	0.0053	P	2.3
7	☐	1000.000	987.188	235190.69	0.0102	P	2.7
8	☐			-76.73	0.0000	P	-484.

$$y = 1.0320E-005 * x + 7.4149E-006$$

$$R = 0.9996$$

$$DL = 3.654$$

$$BEC = 0.7185$$

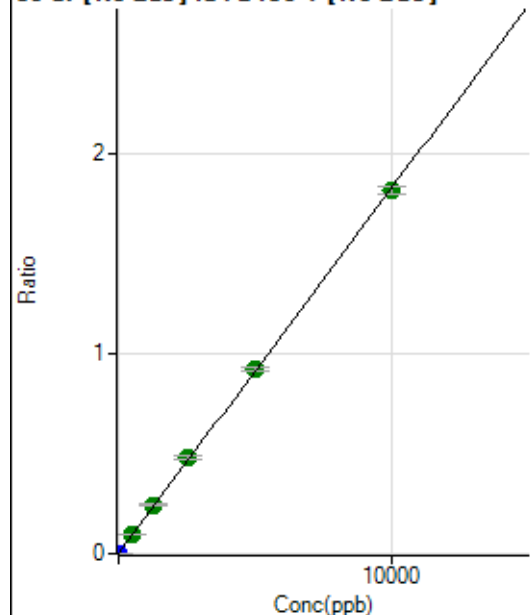
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			14239.17		P	1.1
2	☐			14887.60		P	0.3
3	☐			14861.99		P	0.3
4	☐			14368.18		P	1.7
5	☐			13772.05		P	1.7
6	☐			13474.00		P	1.2
7	☐			13229.33		P	0.7
8	☐			13339.45		P	2.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	23338.49	0.0010	P	1.4
2	☐	1.000	1.045	27857.48	0.0012	P	1.3
3	☐	500.000	519.858	2303130.89	0.0958	A	0.7
4	☐	1250.000	1314.331	5559954.47	0.2408	A	4.0
5	☐	2500.000	2631.128	10965224.29	0.4810	A	2.3
6	☐	5000.000	5060.692	20890869.56	0.9243	A	2.1
7	☐	10000.000	9927.838	41809720.03	1.8122	A	2.1
8	☐			51462.49	0.0024	P	2.3

$$y = 1.8244\text{E-}004 * x + 9.7696\text{E-}004$$

$$R = 0.9999$$

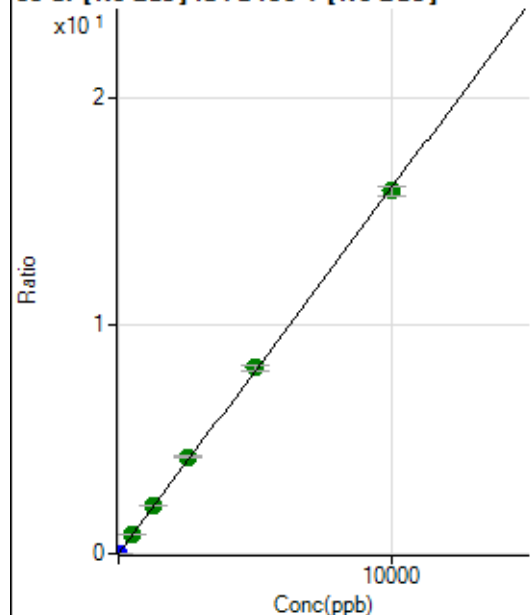
$$DL = 0.22$$

$$BEC = 5.355$$

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	427.80	0.0000	P	17.9
2	☐	1.000	0.983	38035.87	0.0016	P	1.3
3	☐	500.000	515.426	19858681.00	0.8262	A	0.7
4	☐	1250.000	1319.072	48845326.44	2.1144	A	2.2
5	☐	2500.000	2638.202	96407764.65	4.2290	A	2.2
6	☐	5000.000	5076.618	183923973.55	8.1376	A	2.4
7	☐	10000.000	9917.735	366747608.19	15.8978	A	2.5
8	☐			265406.74	0.0122	P	0.8

$$y = 0.0016 * x + 1.7903\text{E-}005$$

$$R = 0.9998$$

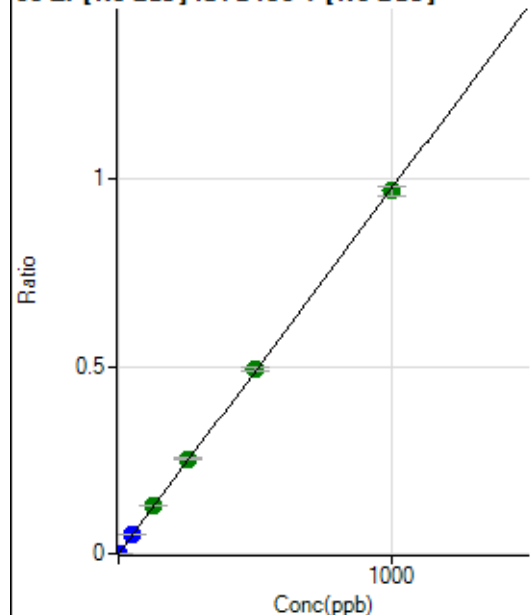
$$DL = 0.00599$$

$$BEC = 0.01117$$

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	1033.40	0.0000	P	11.4
2	☐	1.000	0.976	23708.57	0.0010	P	1.7
3	☐	50.000	51.188	1199048.64	0.0499	P	0.3
4	☐	125.000	131.878	2967097.05	0.1285	A	2.7
5	☐	250.000	260.140	5774832.38	0.2533	A	2.9
6	☐	500.000	504.615	11107813.79	0.4914	A	1.7
7	☐	1000.000	994.239	22333220.46	0.9682	A	2.8
8	☐			12488.90	0.0006	P	0.7

$$y = 9.7373\text{E-}004 * x + 4.3247\text{E-}005$$

$$R = 0.9999$$

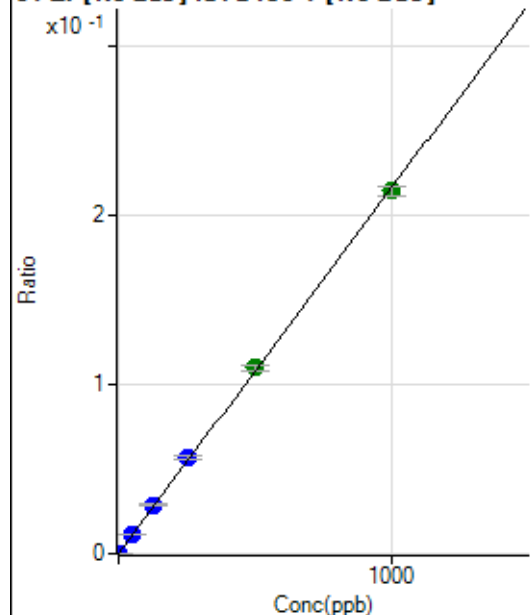
$$DL = 0.01518$$

$$BEC = 0.04441$$

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	200.01	0.0000	P	20.5
2	☐	1.000	0.957	5139.95	0.0002	P	4.1
3	☐	50.000	51.178	266431.94	0.0111	P	0.8
4	☐	125.000	132.904	664544.17	0.0288	P	3.0
5	☐	250.000	263.358	1299438.69	0.0570	P	2.7
6	☐	500.000	507.489	2482490.66	0.1098	A	2.7
7	☐	1000.000	991.869	4952224.37	0.2147	A	2.6
8	☐			2772.57	0.0001	P	1.3

$$y = 2.1643\text{E-}004 * x + 8.3689\text{E-}006$$

$$R = 0.9998$$

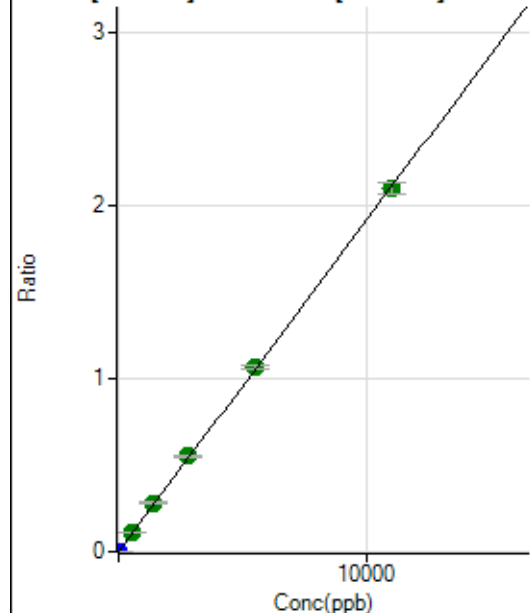
$$DL = 0.0238$$

$$BEC = 0.03867$$

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	341.68	0.0000	P	25.1
2	☐	5.000	6.089	28222.26	0.0012	P	1.5
3	☐	550.000	561.861	2591896.33	0.1078	A	1.6
4	☐	1375.000	1456.689	6456041.12	0.2796	A	3.5
5	☐	2750.000	2875.112	12578036.04	0.5518	A	2.5
6	☐	5500.000	5548.793	24070205.57	1.0649	A	1.7
7	☐	11000.000	10933.521	48397182.68	2.0982	A	3.3
8	☐			14663.33	0.0007	P	6.5

$$y = 1.9191\text{E-}004 * x + 1.4297\text{E-}005$$

$$R = 0.9999$$

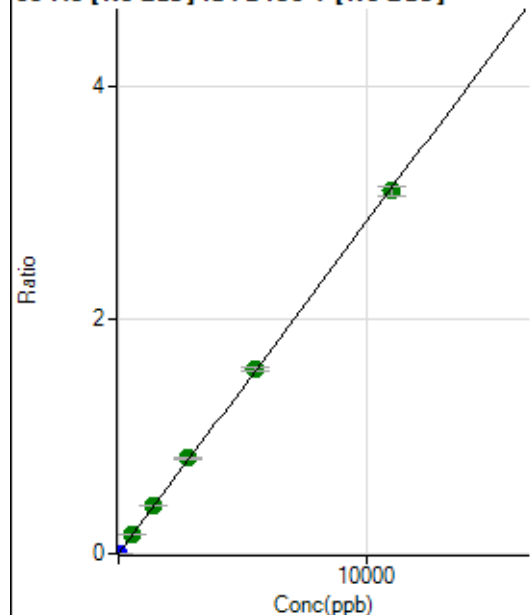
$$DL = 0.0562$$

$$BEC = 0.0745$$

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	47.22	0.0000	P	62.1
2	☐	5.000	5.035	34198.95	0.0014	P	1.1
3	☐	550.000	561.594	3837439.15	0.1597	A	1.2
4	☐	1375.000	1448.454	9509760.80	0.4118	A	3.4
5	☐	2750.000	2876.455	18640267.78	0.8178	A	2.9
6	☐	5500.000	5576.421	35835464.00	1.5854	A	1.8
7	☐	11000.000	10920.414	71620937.71	3.1046	A	2.4
8	☐			18161.76	0.0008	P	9.1

$$y = 2.8429\text{E-}004 * x + 1.9771\text{E-}006$$

$$R = 0.9999$$

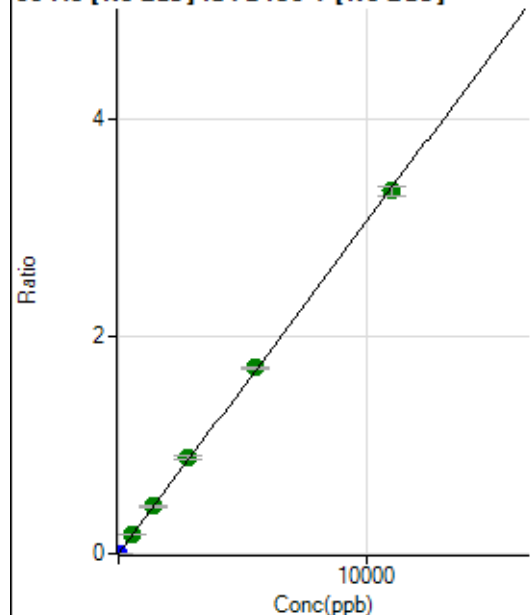
$$DL = 0.01296$$

$$BEC = 0.006954$$

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	316.68	0.0000	P	7.2
2	☐	5.000	5.244	38674.09	0.0016	P	3.0
3	☐	550.000	564.961	4162581.00	0.1732	A	0.7
4	☐	1375.000	1444.361	10223615.68	0.4427	A	3.8
5	☐	2750.000	2888.464	20180493.16	0.8854	A	3.1
6	☐	5500.000	5584.651	38695425.17	1.7118	A	1.6
7	☐	11000.000	10913.640	77167988.53	3.3453	A	2.7
8	☐			23719.89	0.0011	P	8.6

$$y = 3.0652\text{E-}004 * x + 1.3257\text{E-}005$$

$$R = 0.9999$$

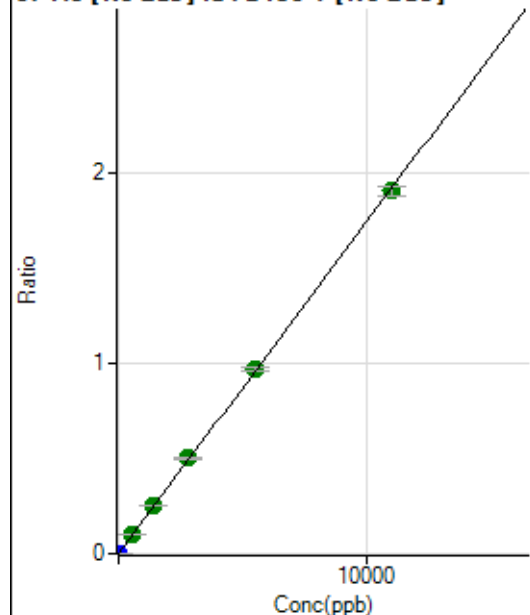
$$DL = 0.009308$$

$$BEC = 0.04325$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	78.2
2	☐	5.000	5.057	21101.82	0.0009	P	3.8
3	☐	550.000	564.112	2368327.12	0.0985	A	2.6
4	☐	1375.000	1443.290	5822679.38	0.2521	A	3.2
5	☐	2750.000	2886.356	11493391.05	0.5042	A	2.5
6	☐	5500.000	5565.597	21974817.16	0.9722	A	2.0
7	☐	11000.000	10923.871	44017170.43	1.9082	A	2.8
8	☐			10515.20	0.0005	P	12.5

$$y = 1.7468\text{E-}004 * x + 9.3045\text{E-}007$$

$$R = 0.9999$$

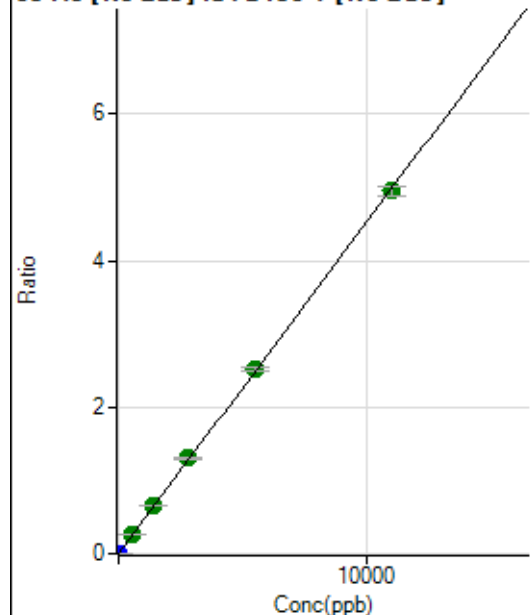
$$DL = 0.0125$$

$$BEC = 0.005327$$

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	141.67	0.0000	P	9.8
2	☐	5.000	5.074	54948.38	0.0023	P	0.8
3	☐	550.000	561.200	6106870.36	0.2541	A	1.0
4	☐	1375.000	1449.647	15158817.35	0.6563	A	2.9
5	☐	2750.000	2869.387	29612853.44	1.2991	A	2.6
6	☐	5500.000	5550.212	56793435.99	2.5128	A	2.3
7	☐	11000.000	10935.156	114202497.00	4.9507	A	2.8
8	☐			27089.75	0.0012	P	11.0

$$y = 4.5274\text{E-}004 * x + 5.9288\text{E-}006$$

$$R = 0.9999$$

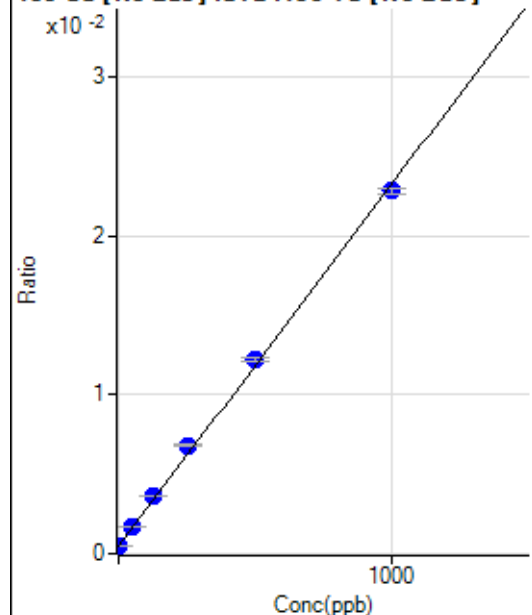
$$DL = 0.003845$$

$$BEC = 0.0131$$

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	8002.30	0.0005	P	0.3
2	☐	1.000	2.005	8701.30	0.0005	P	3.1
3	☐	50.000	56.022	30674.23	0.0017	P	0.9
4	☐	125.000	139.065	62093.25	0.0036	P	2.8
5	☐	250.000	278.060	114031.76	0.0068	P	1.3
6	☐	500.000	517.622	207571.82	0.0123	P	1.8
7	☐	1000.000	982.114	400924.83	0.0228	P	1.5
8	☐			7559.00	0.0005	P	1.1

$$y = 2.2773\text{E-}005 * x + 4.6290\text{E-}004$$

$$R = 0.9993$$

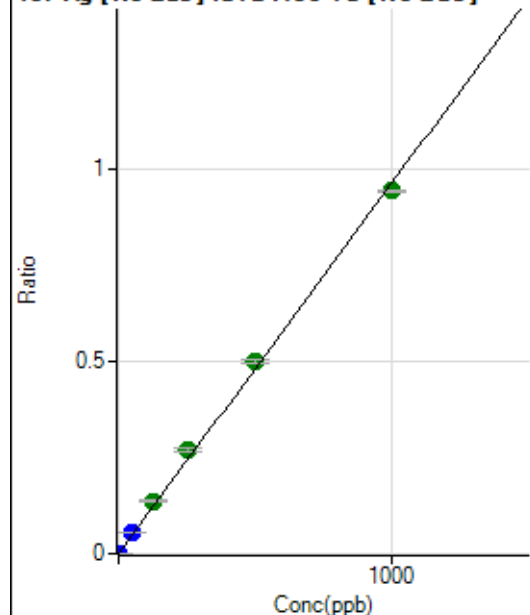
$$DL = 0.1539$$

$$BEC = 20.33$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	148.61	0.0000	P	23.4
2	☐	1.000	1.065	17729.00	0.0010	P	2.0
3	☐	50.000	56.174	955850.37	0.0542	P	0.4
4	☐	125.000	141.786	2339083.39	0.1367	A	2.8
5	☐	250.000	279.869	4528044.80	0.2699	A	2.8
6	☐	500.000	519.920	8495945.85	0.5014	A	1.2
7	☐	1000.000	980.166	16601780.41	0.9452	A	0.8
8	☐			5334.37	0.0003	P	4.8

$$y = 9.6432\text{E-}004 * x + 8.5974\text{E-}006$$

$$R = 0.9991$$

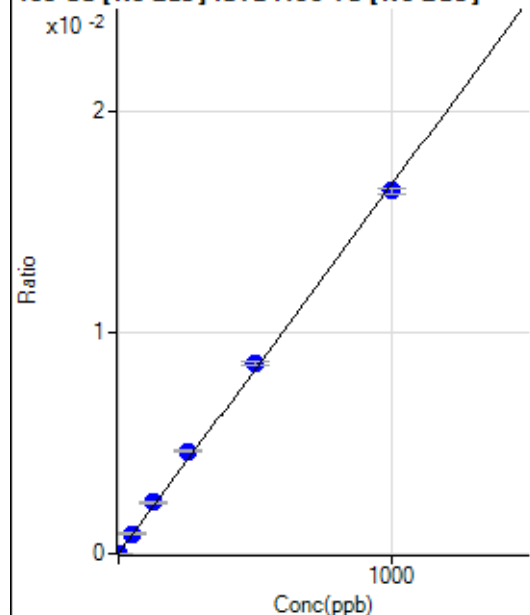
$$DL = 0.006271$$

$$BEC = 0.008915$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	75.00	0.0000	P	20.3
2	☐	1.000	1.084	383.35	0.0000	P	3.3
3	☐	50.000	54.404	16079.89	0.0009	P	0.5
4	☐	125.000	139.195	39780.83	0.0023	P	2.5
5	☐	250.000	277.106	77593.38	0.0046	P	2.1
6	☐	500.000	515.533	145715.66	0.0086	P	1.7
7	☐	1000.000	983.463	288049.05	0.0164	P	1.6
8	☐			158.34	0.0000	P	11.8

$$y = 1.6673\text{E-}005 * x + 4.3402\text{E-}006$$

$$R = 0.9994$$

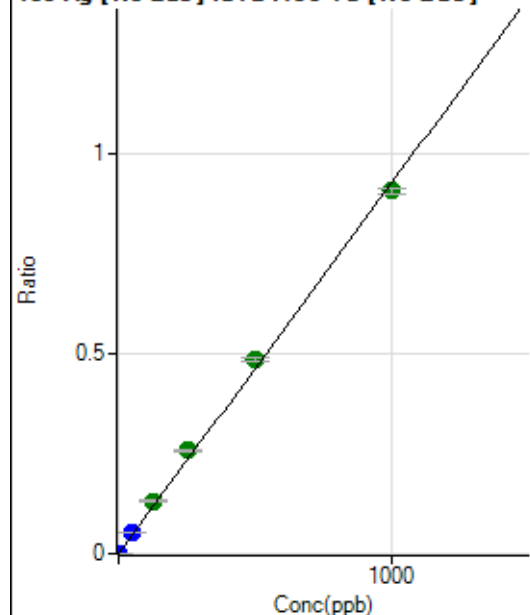
$$DL = 0.1586$$

$$BEC = 0.2603$$

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	47.22	0.0000	P	36.9
2	☐	1.000	1.073	17032.34	0.0010	P	1.5
3	☐	50.000	56.221	917190.47	0.0520	P	0.8
4	☐	125.000	141.265	2234483.84	0.1306	A	2.7
5	☐	250.000	279.428	4335361.42	0.2584	A	1.7
6	☐	500.000	522.160	8180427.00	0.4828	A	1.8
7	☐	1000.000	979.219	15901491.85	0.9054	A	1.6
8	☐			5120.41	0.0003	P	3.2

$$y = 9.2464\text{E-}004 * x + 2.7320\text{E-}006$$

$$R = 0.9991$$

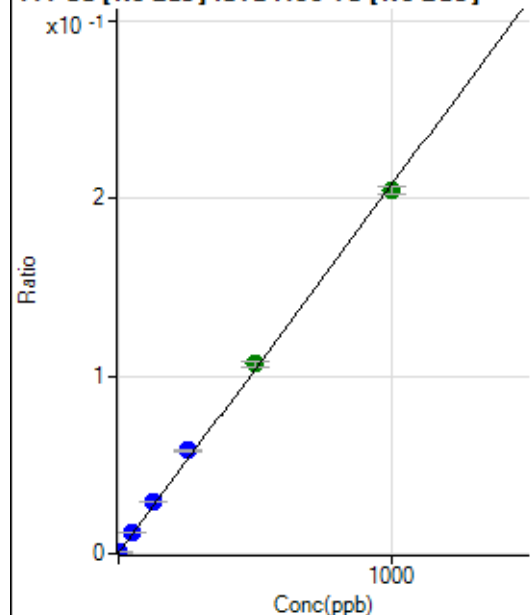
$$DL = 0.003268$$

$$BEC = 0.002955$$

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	5571.33	0.0003	P	0.2
2	☐	1.000	1.154	9607.83	0.0006	P	1.1
3	☐	50.000	54.466	204874.76	0.0116	P	0.7
4	☐	125.000	139.394	499829.81	0.0292	P	2.6
5	☐	250.000	278.996	975755.68	0.0582	P	2.1
6	☐	500.000	513.615	1809228.91	0.1068	A	2.4
7	☐	1000.000	983.921	3587451.23	0.2043	A	2.0
8	☐			5911.04	0.0004	P	0.9

$$y = 2.0729\text{E-}004 * x + 3.2228\text{E-}004$$

$$R = 0.9993$$

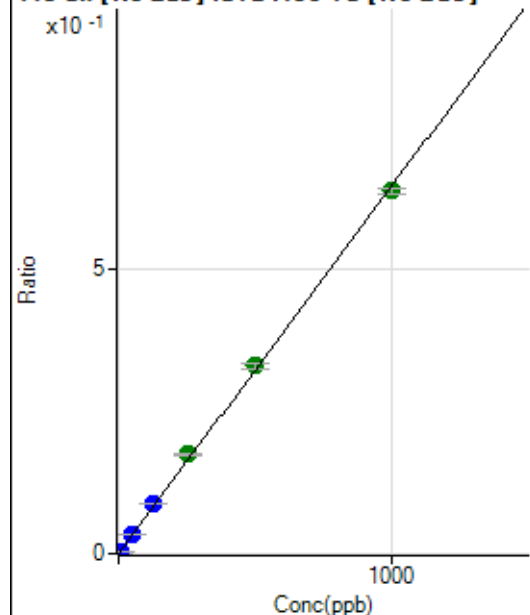
$$DL = 0.01111$$

$$BEC = 1.555$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2000.22	0.0001	P	3.5
2	☐	5.000	5.406	61645.56	0.0036	P	1.6
3	☐	50.000	52.755	602292.61	0.0341	P	0.4
4	☐	125.000	136.246	1505079.14	0.0880	P	2.8
5	☐	250.000	270.442	2928717.77	0.1745	A	1.9
6	☐	500.000	511.264	5588009.24	0.3298	A	2.6
7	☐	1000.000	987.712	11189308.06	0.6371	A	1.5
8	☐			8285.93	0.0005	P	2.8

$$y = 6.4493E-004 * x + 1.1572E-004$$

$$R = 0.9996$$

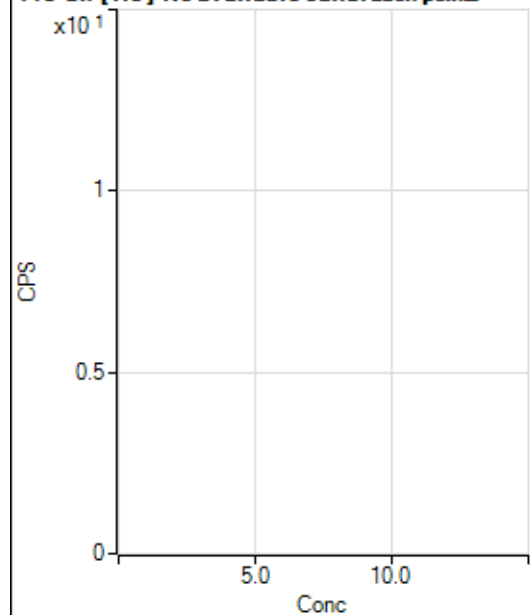
$$DL = 0.01883$$

$$BEC = 0.1794$$

Weight: <None>

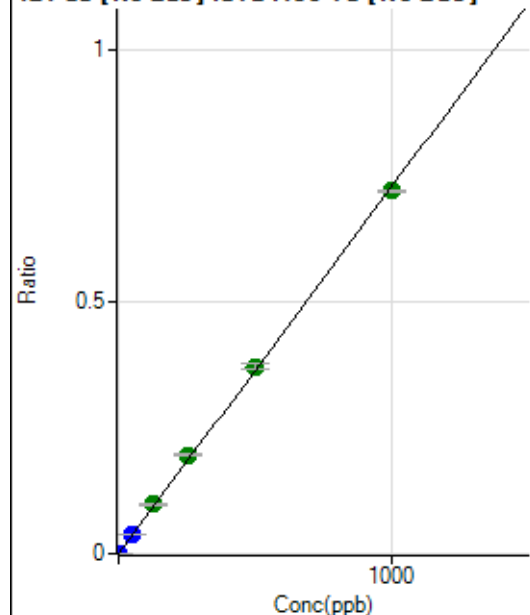
Min Conc: 0

118 Sn [He] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1011.11		P	24.2
2	☐			28326.80		P	1.2
3	☐			273781.98		P	1.0
4	☐			685236.30		P	0.6
5	☐			1312968.90		P	0.4
6	☐			2557581.92		A	0.3
7	☐			5021000.20		A	1.4
8	☐			3827.80		P	5.6

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	90.28	0.0000	P	30.1
2	☐	2.000	2.000	24975.95	0.0015	P	2.3
3	☐	50.000	51.843	665185.19	0.0377	P	0.6
4	☐	125.000	133.840	1664978.53	0.0973	A	2.9
5	☐	250.000	268.769	3279432.08	0.1955	A	2.2
6	☐	500.000	509.595	6277708.52	0.3706	A	2.9
7	☐	1000.000	989.313	12635554.80	0.7194	A	0.9
8	☐			8729.12	0.0005	P	4.1

$$y = 7.2718\text{E-}004 * x + 5.2263\text{E-}006$$

$$R = 0.9997$$

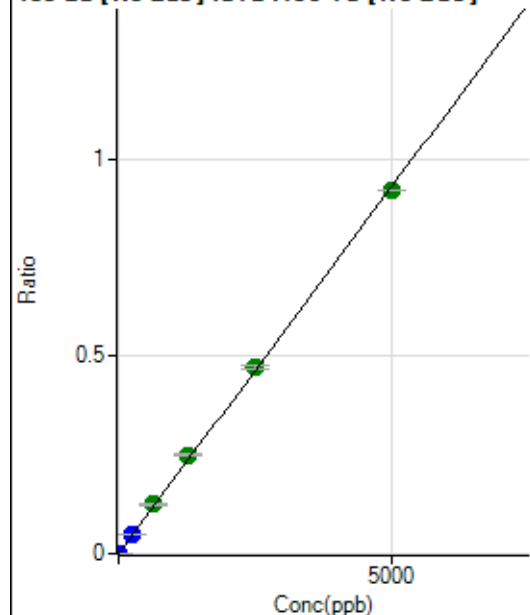
$$DL = 0.006483$$

$$BEC = 0.007187$$

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	25.00	0.0000	P	88.1
2	☐	10.000	9.863	31376.91	0.0018	P	2.0
3	☐	250.000	259.511	850630.78	0.0482	P	0.7
4	☐	625.000	673.276	2139602.70	0.1251	A	3.1
5	☐	1250.000	1345.986	4196683.73	0.2501	A	1.1
6	☐	2500.000	2544.101	8008367.37	0.4727	A	2.0
7	☐	5000.000	4947.443	16145491.51	0.9192	A	0.2
8	☐			7160.34	0.0004	P	4.1

$$y = 1.8579\text{E-}004 * x + 1.4428\text{E-}006$$

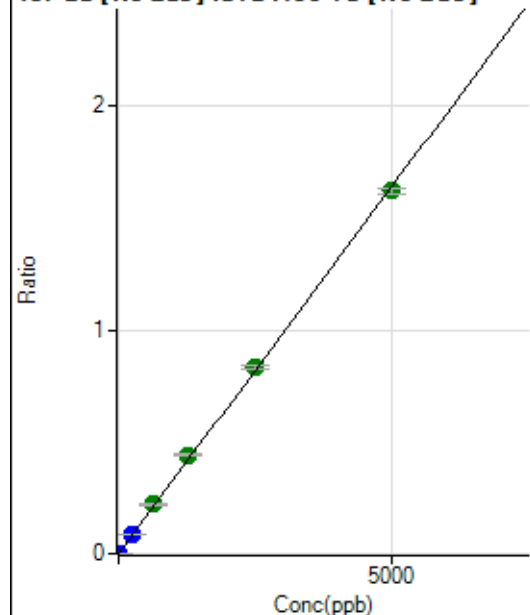
$$R = 0.9997$$

$$DL = 0.02052$$

$$BEC = 0.007766$$

Weight: <None>

Min Conc: 0

¹³⁷Ba [No Gas] ISTD : ¹⁵⁹Tb [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.89	0.0000	P	32.3
2	☐	10.000	9.937	55718.10	0.0033	P	1.5
3	☐	250.000	258.212	1491812.12	0.0846	P	0.2
4	☐	625.000	670.742	3757367.06	0.2197	A	2.9
5	☐	1250.000	1346.679	7400016.23	0.4410	A	1.6
6	☐	2500.000	2544.217	14115970.63	0.8332	A	2.1
7	☐	5000.000	4947.593	28454736.40	1.6202	A	1.4
8	☐			11977.54	0.0007	P	2.9

$$y = 3.2747\text{E-}004 * x + 2.2475\text{E-}006$$

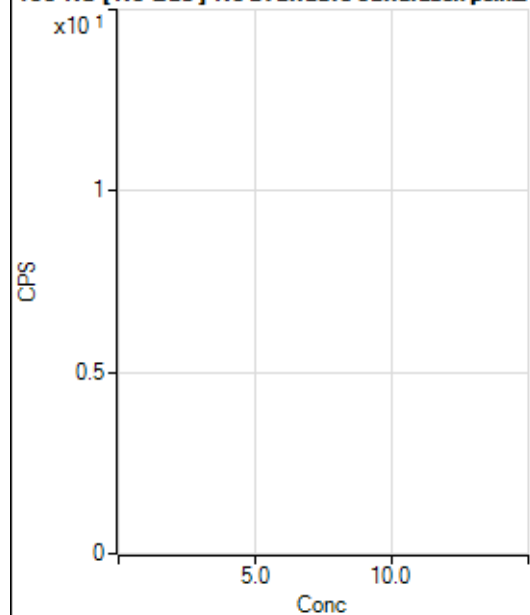
$$R = 0.9997$$

$$DL = 0.006658$$

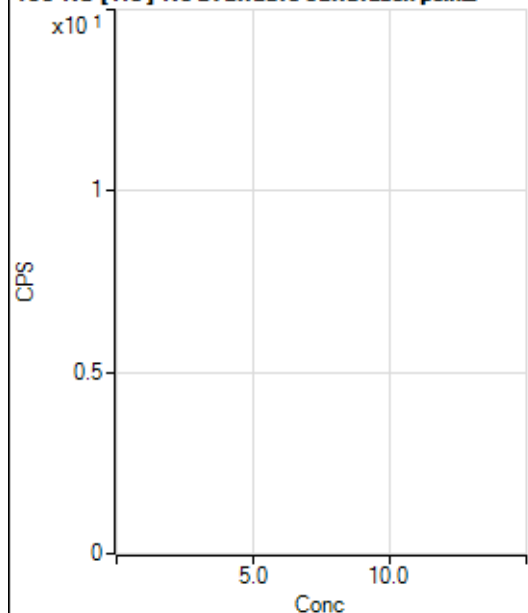
$$BEC = 0.006863$$

Weight: <None>

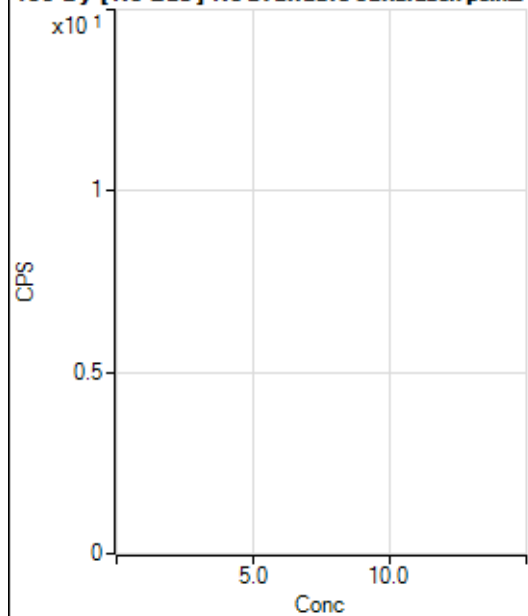
Min Conc: 0

¹⁵⁰Nd [No Gas] No available calibration points

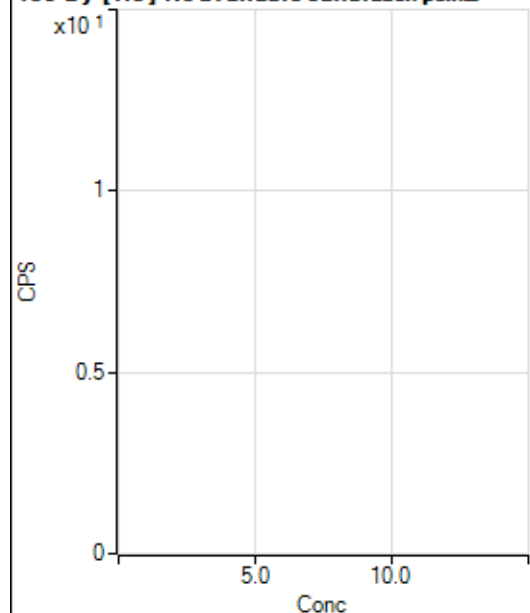
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	34.6
2	☐			4.44		P	173.2
3	☐			57.78		P	29.0
4	☐			157.78		P	27.2
5	☐			284.45		P	3.6
6	☐			484.46		P	8.3
7	☐			1004.50		P	6.9
8	☐			162.23		P	22.6

150 Nd [He] No available calibration points

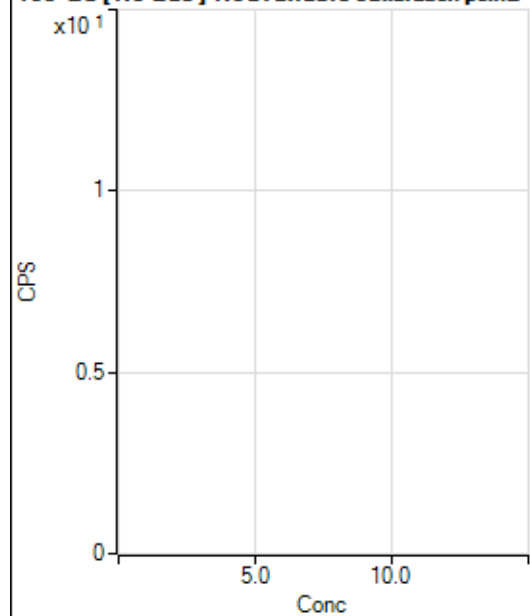
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			13.33		P	50.0
4	☐			33.33		P	20.0
5	☐			56.67		P	21.2
6	☐			98.89		P	18.6
7	☐			217.78		P	13.0
8	☐			92.22		P	11.0

156 Dy [No Gas] No available calibration points

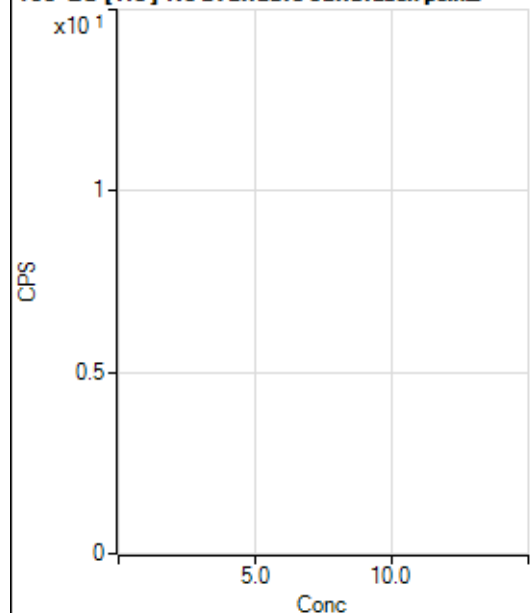
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	173.2
2	☐			11.11		P	43.3
3	☐			63.89		P	37.7
4	☐			141.67		P	11.8
5	☐			255.57		P	19.9
6	☐			405.57		P	7.2
7	☐			816.71		P	15.0
8	☐			3047.64		P	8.0

156 Dy [He] No available calibration points

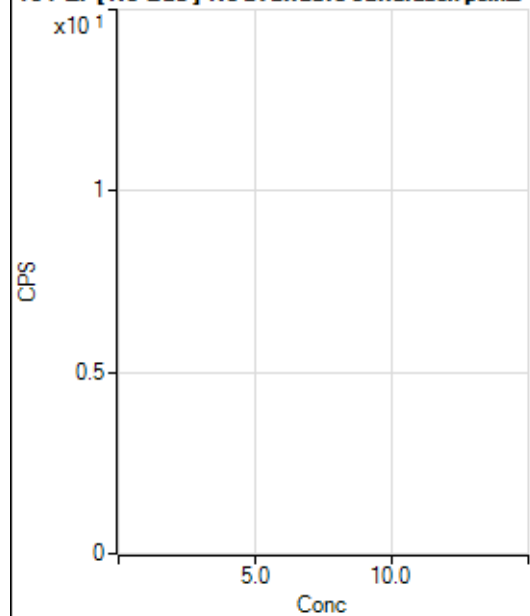
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			6.67		P	86.6
2	☐			8.89		P	57.3
3	☐			56.67		P	27.0
4	☐			143.34		P	10.1
5	☐			184.45		P	12.0
6	☐			383.34		P	15.7
7	☐			740.03		P	2.5
8	☐			1940.16		P	2.3

160 Gd [No Gas] Noavailable calibration poin_

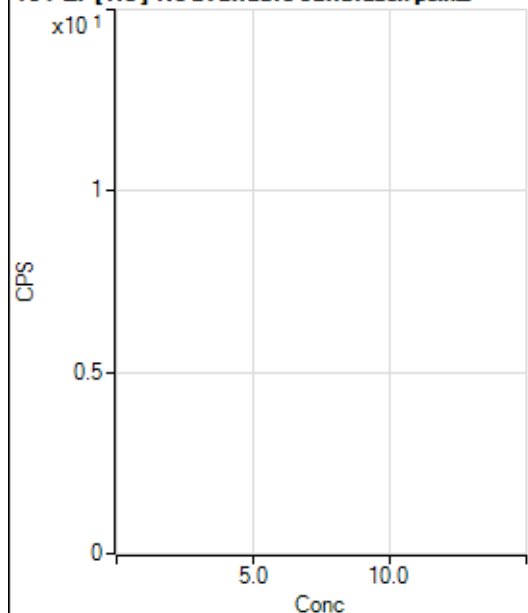
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			75.00		P	61.9
2	☐			127.78		P	10.0
3	☐			116.67		P	25.8
4	☐			122.23		P	23.9
5	☐			222.23		P	10.8
6	☐			380.57		P	17.7
7	☐			675.04		P	15.0
8	☐			2700.33		P	6.6

160 Gd [He] No available calibration points

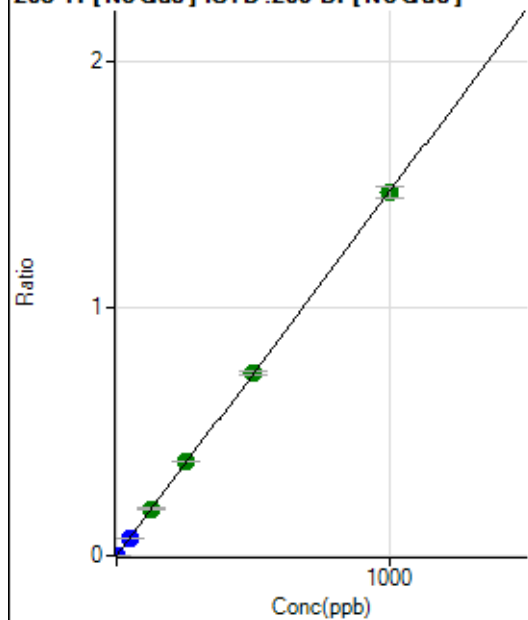
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			316.68		P	3.6
2	☐			315.56		P	6.4
3	☐			337.79		P	9.5
4	☐			364.45		P	9.5
5	☐			404.46		P	2.6
6	☐			468.90		P	7.6
7	☐			760.03		P	1.2
8	☐			2204.65		P	2.9

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			102.78		P	18.7
2	☐			127.78		P	35.9
3	☐			127.78		P	27.2
4	☐			130.56		P	19.5
5	☐			138.89		P	38.6
6	☐			208.34		P	32.7
7	☐			297.23		P	5.8
8	☐			516.69		P	18.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			86.67		P	7.7
2	☐			73.33		P	4.5
3	☐			70.00		P	14.3
4	☐			112.22		P	16.4
5	☐			101.11		P	19.3
6	☐			132.22		P	24.5
7	☐			186.67		P	19.3
8	☐			315.56		P	12.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	372.24	0.0000	P	11.9
2	☐	1.000	0.887	16885.86	0.0013	P	1.5
3	☐	50.000	47.373	908630.52	0.0698	P	0.6
4	☐	125.000	128.261	2366698.08	0.1889	A	2.5
5	☐	250.000	259.190	4711359.00	0.3817	A	1.2
6	☐	500.000	501.103	8995184.40	0.7379	A	2.7
7	☐	1000.000	996.875	18147456.31	1.4679	A	3.2
8	☐			3758.96	0.0004	P	11.2

$$y = 0.0015 * x + 2.9197E-005$$

$$R = 0.9999$$

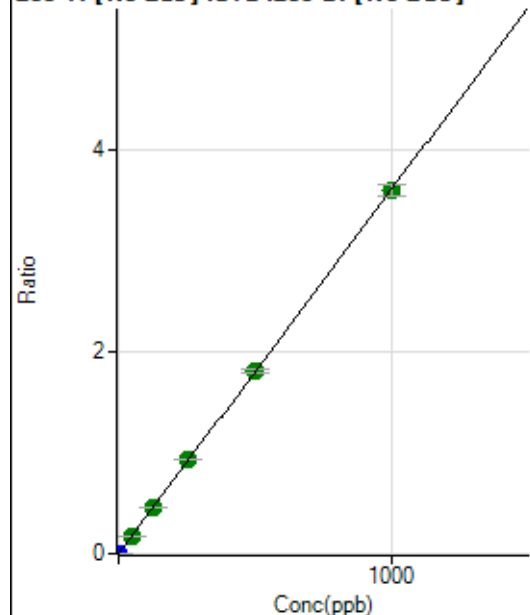
$$DL = 0.007056$$

$$BEC = 0.01983$$

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	819.49	0.0001	P	11.5
2	☐	1.000	0.888	41268.85	0.0033	P	1.7
3	☐	50.000	49.581	2326093.95	0.1787	A	0.9
4	☐	125.000	128.106	5782923.43	0.4615	A	1.3
5	☐	250.000	258.128	11477298.35	0.9298	A	1.3
6	☐	500.000	503.300	22102315.94	1.8129	A	2.0
7	☐	1000.000	995.951	44349775.64	3.5874	A	3.3
8	☐			8747.52	0.0008	P	11.0

$$y = 0.0036 * x + 6.4317E-005$$

$$R = 0.9999$$

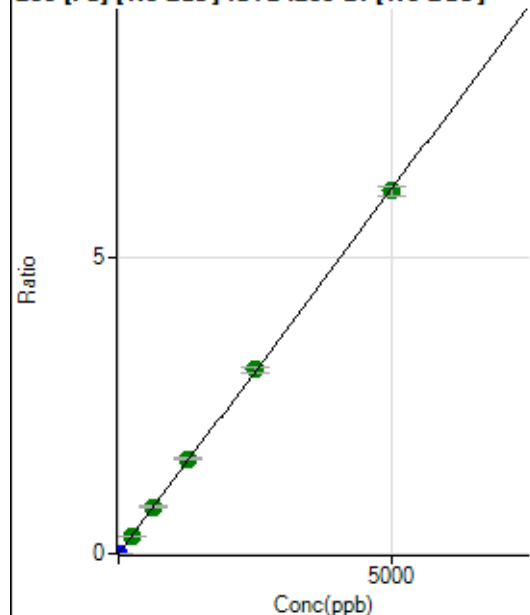
$$DL = 0.006179$$

$$BEC = 0.01786$$

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	388.90	0.0000	P	4.7
2	☐	1.000	0.906	14509.78	0.0011	P	0.7
3	☐	250.000	249.088	3998534.49	0.3071	A	1.0
4	☐	625.000	640.995	9900253.69	0.7902	A	2.8
5	☐	1250.000	1298.104	19752575.67	1.6003	A	1.5
6	☐	2500.000	2519.992	37872615.20	3.1066	A	2.5
7	☐	5000.000	4976.024	75849218.36	6.1344	A	2.6
8	☐			38554.79	0.0037	P	0.1

$$y = 0.0012 * x + 3.0512E-005$$

$$R = 0.9999$$

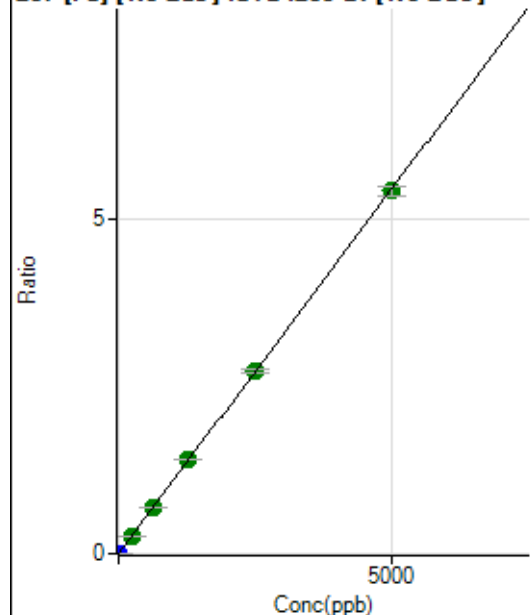
$$DL = 0.003498$$

$$BEC = 0.02475$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	335.20	0.0000	P	19.7
2	☐	1.000	0.885	12489.25	0.0010	P	4.4
3	☐	250.000	247.078	3496191.05	0.2685	A	1.1
4	☐	625.000	641.924	8741353.84	0.6976	A	1.5
5	☐	1250.000	1293.001	17344384.88	1.4051	A	1.2
6	☐	2500.000	2515.874	33330725.51	2.7340	A	2.3
7	☐	5000.000	4979.343	66905230.66	5.4110	A	2.6
8	☐			33138.83	0.0032	P	1.4

$$y = 0.0011 * x + 2.6320E-005$$

$$R = 0.9999$$

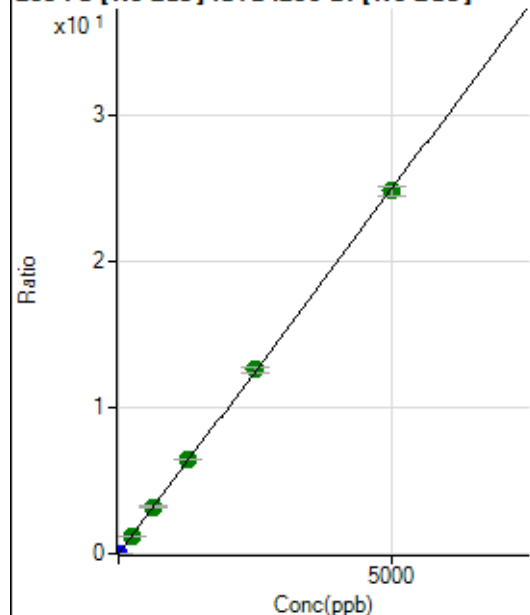
$$DL = 0.01431$$

$$BEC = 0.02422$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1596.36	0.0001	P	3.8
2	☐	1.000	0.894	57947.54	0.0046	P	1.5
3	☐	250.000	248.149	16109152.47	1.2372	A	0.8
4	☐	625.000	641.847	40092662.88	3.1999	A	2.2
5	☐	1250.000	1294.522	79656836.04	6.4537	A	1.6
6	☐	2500.000	2521.841	153266066.62	12.5722	A	2.5
7	☐	5000.000	4975.936	306716602.69	24.8066	A	2.7
8	☐			153843.98	0.0148	P	0.7

$$y = 0.0050 * x + 1.2527E-004$$

$$R = 0.9999$$

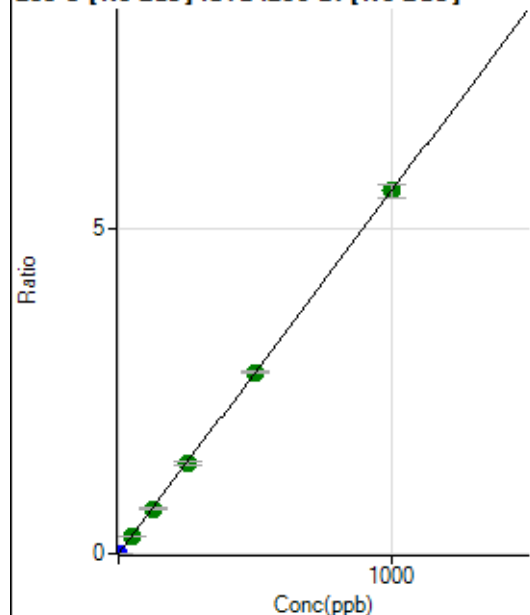
$$DL = 0.002869$$

$$BEC = 0.02513$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	42.0
2	☐	1.000	0.834	58881.60	0.0047	P	2.6
3	☐	50.000	47.134	3422428.29	0.2629	A	2.1
4	☐	125.000	123.744	8647100.02	0.6901	A	2.2
5	☐	250.000	250.265	17222895.00	1.3958	A	3.2
6	☐	500.000	500.426	34030830.97	2.7910	A	1.2
7	☐	1000.000	1000.021	68946005.01	5.5773	A	3.6
8	☐			7613.53	0.0007	P	6.3

$$y = 0.0056 * x + 2.4011E-006$$

$$R = 1.0000$$

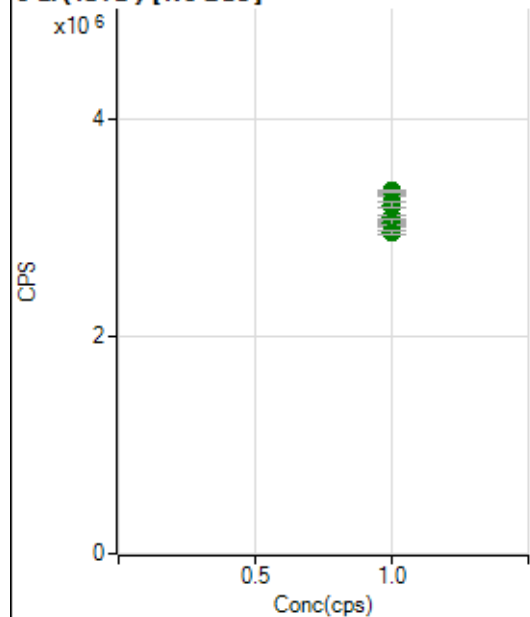
$$DL = 0.0005427$$

$$BEC = 0.0004305$$

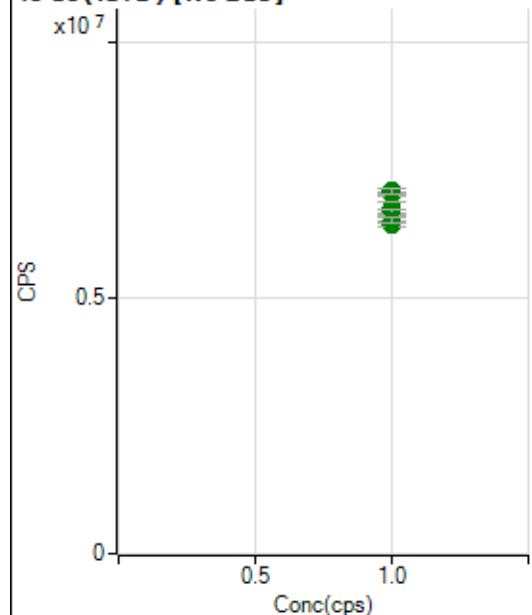
Weight: <None>

Min Conc: 0

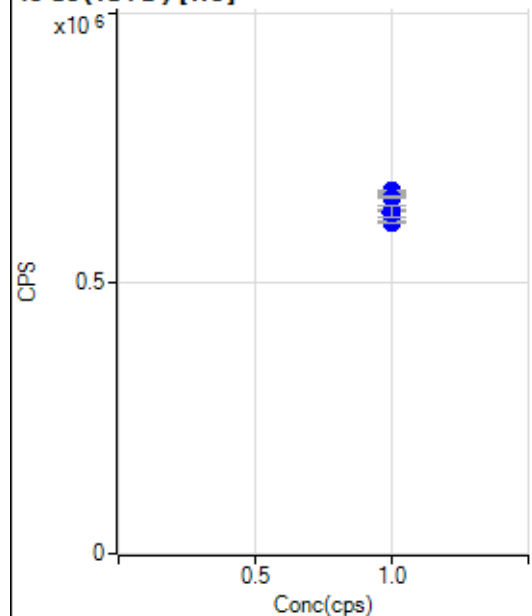
6 Li (ISTD) [No Gas]



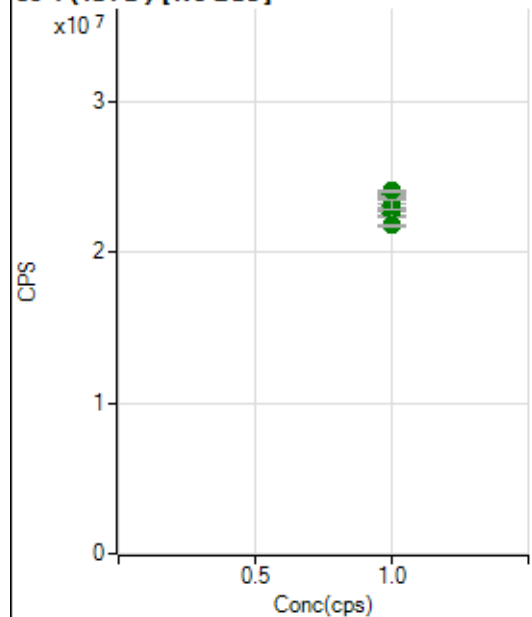
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3333364.64		A	0.6
2	☐	1.000		3294029.98		A	0.6
3	☐	1.000		3333046.72		A	0.4
4	☐	1.000		3205164.50		A	1.9
5	☐	1.000		3089946.17		A	1.7
6	☐	1.000		3014705.27		A	1.2
7	☐	1.000		3041518.84		A	1.7
8	☐	1.000		2949821.31		A	1.4

45 Sc (ISTD) [No Gas]

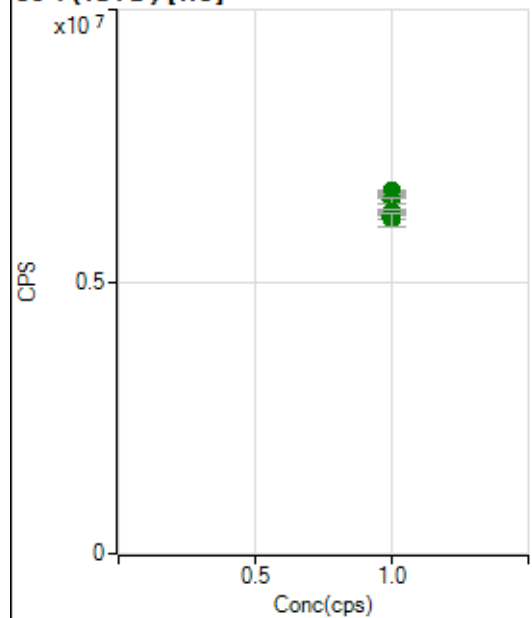
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7055231.42		A	0.8
2	☐	1.000		7063088.58		A	2.0
3	☐	1.000		7099590.38		A	1.5
4	☐	1.000		6768126.57		A	3.4
5	☐	1.000		6571309.28		A	3.2
6	☐	1.000		6447248.03		A	1.4
7	☐	1.000		6680884.76		A	2.2
8	☐	1.000		6520737.47		A	1.5

45 Sc (ISTD) [He]

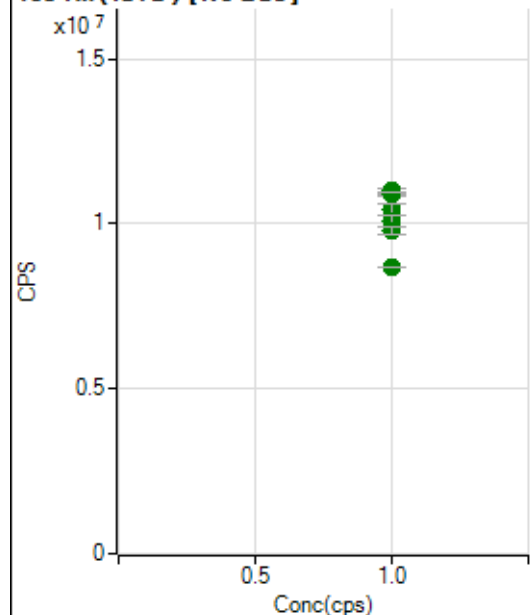
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		671309.42		P	0.5
2	☐	1.000		662582.31		P	0.9
3	☐	1.000		670688.25		P	0.6
4	☐	1.000		658844.92		P	0.7
5	☐	1.000		635816.46		P	0.7
6	☐	1.000		613433.19		P	0.3
7	☐	1.000		628657.34		P	1.8
8	☐	1.000		634134.22		P	3.3

89 Y (ISTD) [No Gas]

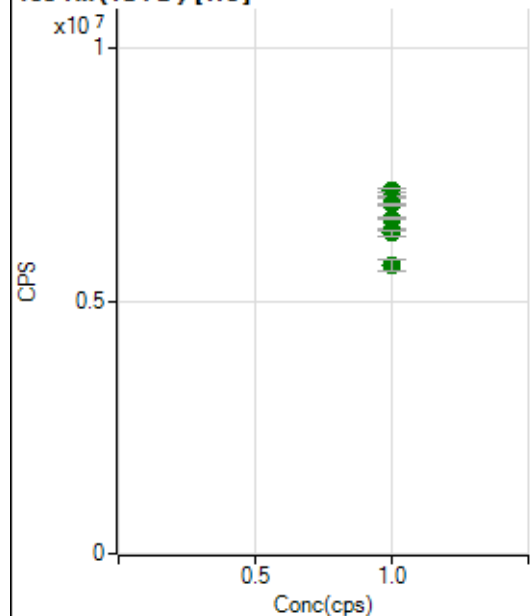
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		23889640.75		A	0.4
2	☐	1.000		23861475.75		A	1.2
3	☐	1.000		24035907.14		A	0.5
4	☐	1.000		23112996.46		A	3.7
5	☐	1.000		22807138.97		A	3.0
6	☐	1.000		22610112.99		A	2.4
7	☐	1.000		23080066.88		A	2.9
8	☐	1.000		21723659.26		A	1.0

89 Y (ISTD) [He]

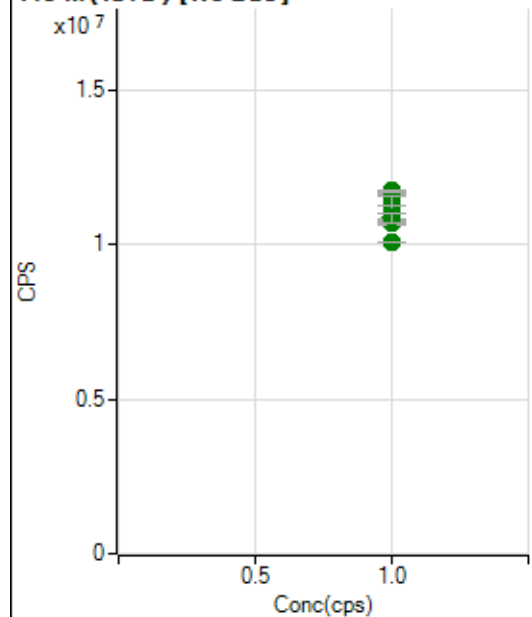
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		6673566.01		A	0.5
2	☐	1.000		6595359.76		A	0.6
3	☐	1.000		6617036.01		A	0.4
4	☐	1.000		6497091.36		A	1.3
5	☐	1.000		6295033.58		A	0.4
6	☐	1.000		6175034.49		A	1.2
7	☐	1.000		6239644.90		A	2.5
8	☐	1.000		6141207.90		A	3.7

103 Rh (ISTD) [No Gas]

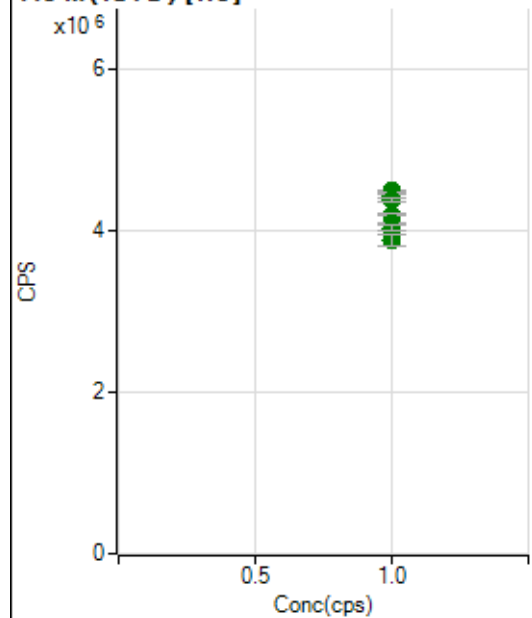
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		10993252.27		A	1.3
2	☐	1.000		10888496.99		A	0.9
3	☐	1.000		10947916.09		A	0.2
4	☐	1.000		10436607.97		A	3.7
5	☐	1.000		10071771.58		A	3.5
6	☐	1.000		9794653.95		A	2.0
7	☐	1.000		9788811.45		A	2.8
8	☐	1.000		8682026.19		A	0.7

103 Rh (ISTD) [He]

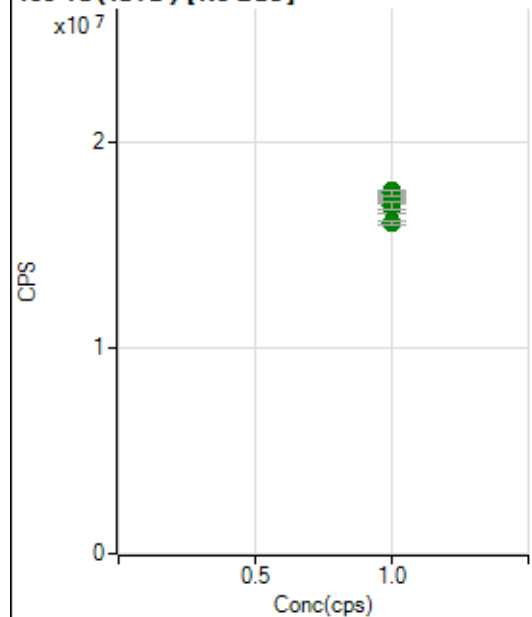
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7183782.60		A	1.1
2	☐	1.000		7056171.98		A	0.4
3	☐	1.000		7051013.78		A	0.4
4	☐	1.000		6914724.13		A	0.5
5	☐	1.000		6642659.69		A	0.6
6	☐	1.000		6402638.24		A	0.4
7	☐	1.000		6346622.96		A	2.0
8	☐	1.000		5711453.04		A	3.7

115 In (ISTD) [No Gas]

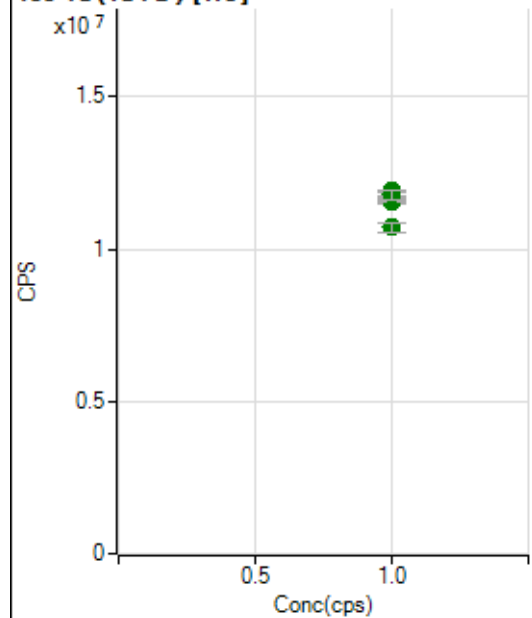
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11708095.05		A	1.4
2	☐	1.000		11604422.11		A	0.7
3	☐	1.000		11752839.17		A	0.7
4	☐	1.000		11304167.69		A	5.0
5	☐	1.000		11052340.67		A	3.9
6	☐	1.000		10728000.97		A	1.3
7	☐	1.000		10879146.24		A	2.6
8	☐	1.000		10088612.58		A	0.3

115 In (ISTD) [He]

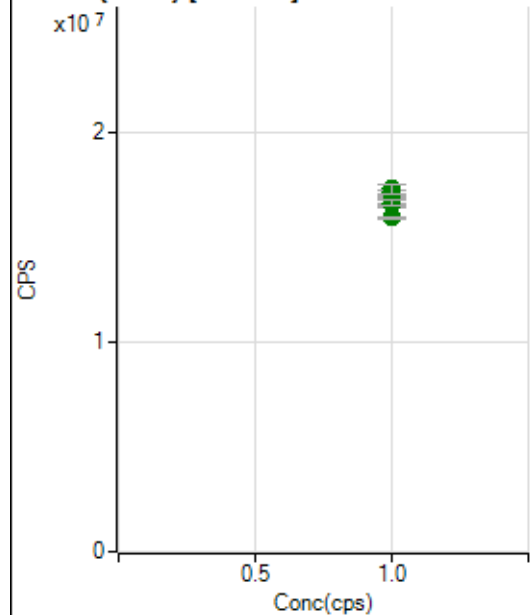
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4487417.77		A	0.1
2	☐	1.000		4425903.85		A	1.6
3	☐	1.000		4459373.77		A	0.6
4	☐	1.000		4369362.37		A	1.3
5	☐	1.000		4190580.70		A	0.4
6	☐	1.000		4080270.49		A	0.9
7	☐	1.000		4029108.97		A	2.2
8	☐	1.000		3868618.22		A	3.8

159 Tb (ISTD) [No Gas]

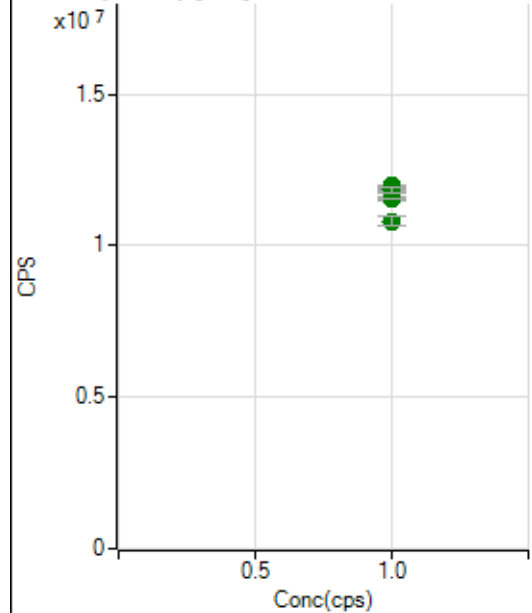
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		17287432.94		A	0.5
2	☐	1.000		17112756.69		A	1.6
3	☐	1.000		17642343.21		A	0.4
4	☐	1.000		17119047.24		A	4.1
5	☐	1.000		16784747.53		A	2.7
6	☐	1.000		16948170.30		A	2.3
7	☐	1.000		17565282.38		A	1.7
8	☐	1.000		16089760.73		A	1.3

159 Tb (ISTD) [He]

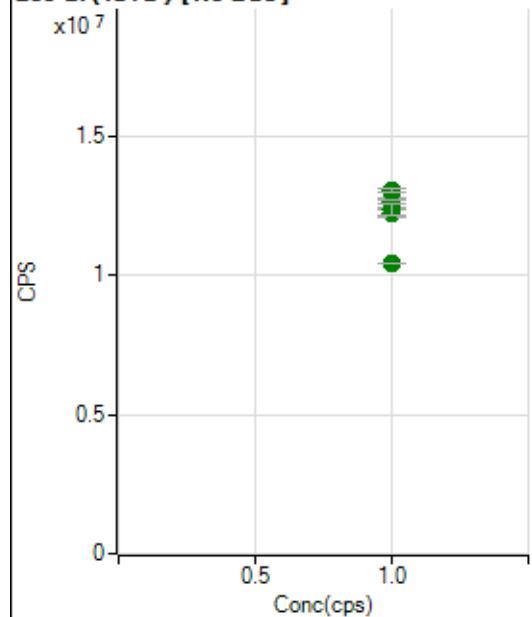
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11886109.96		A	0.5
2	☐	1.000		11718737.88		A	0.8
3	☐	1.000		11873097.32		A	0.3
4	☐	1.000		11911878.30		A	0.2
5	☐	1.000		11578373.72		A	1.0
6	☐	1.000		11548818.58		A	0.3
7	☐	1.000		11796568.85		A	2.5
8	☐	1.000		10702526.72		A	2.9

165 Ho (ISTD) [No Gas]

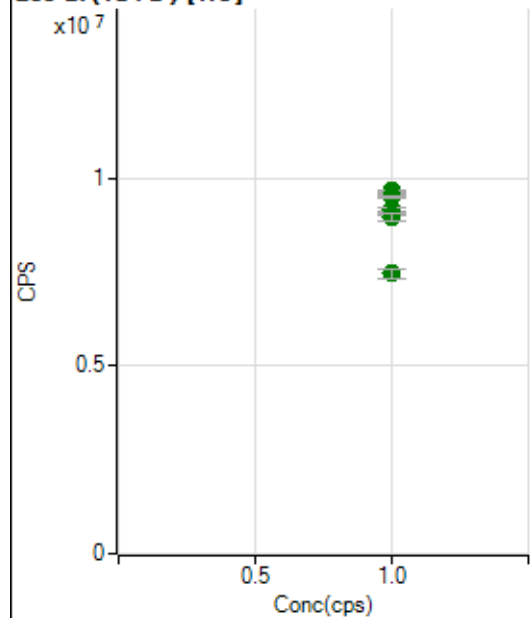
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		16874109.89		A	0.6
2	☐	1.000		16821280.17		A	2.0
3	☐	1.000		17177764.47		A	0.8
4	☐	1.000		16821121.14		A	3.0
5	☐	1.000		16765901.97		A	3.8
6	☐	1.000		16638059.06		A	1.6
7	☐	1.000		17320247.38		A	2.5
8	☐	1.000		15932785.18		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		11824213.43		A	0.8
2	☐	1.000		11797747.46		A	0.7
3	☐	1.000		11976367.74		A	0.2
4	☐	1.000		11965641.63		A	0.4
5	☐	1.000		11562402.05		A	1.1
6	☐	1.000		11571679.41		A	0.2
7	☐	1.000		11847495.52		A	1.8
8	☐	1.000		10803091.02		A	3.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12744810.78		A	0.6
2	☐	1.000		12649512.45		A	1.8
3	☐	1.000		13021055.64		A	1.1
4	☐	1.000		12533402.31		A	2.3
5	☐	1.000		12346607.87		A	2.9
6	☐	1.000		12195339.40		A	2.2
7	☐	1.000		12371776.62		A	3.3
8	☐	1.000		10423807.97		A	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9556787.15		A	0.5
2	☐	1.000		9509828.26		A	0.8
3	☐	1.000		9669844.72		A	0.2
4	☐	1.000		9516515.83		A	0.7
5	☐	1.000		9164910.98		A	0.9
6	☐	1.000		9025921.53		A	0.6
7	☐	1.000		8980523.55		A	2.3
8	☐	1.000		7467081.90		A	3.4

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7031322MS.b
Acq. Date-Time 2022-03-13 12:19:46
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		17887	178872.05			0.576	5.000
24		128647	1286469.34			0.860	5.000
25		17360	173595.45			0.504	5.000
26		19556	195556.09			0.462	5.000
59		38529	385289.39			0.524	5.000
113		21853	218525.42			0.403	5.000
115		63744	637441.03			2.456	5.000
206		41640	416399.03			0.725	5.000
207		35795	357946.42			0.433	5.000
208		87127	871270.67			0.961	5.000
220		0	1.10			49.793	

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

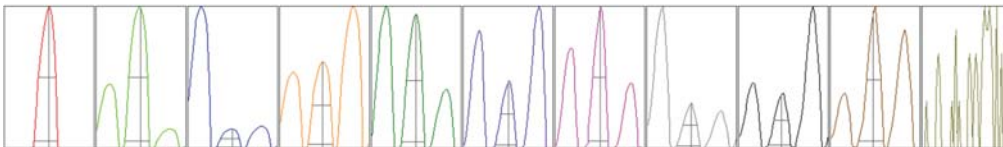
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	17899	17982	17974	17852	17730
24	129709	129093	129341	126971	128121
25	17392	17500	17305	17304	17297
26	19621	19665	19503	19549	19440
59	38262	38763	38387	38643	38590
113	21729	21868	21965	21889	21813
115	65314	65195	63816	62666	61728
206	41325	42118	41513	41522	41720
207	35593	36028	35793	35759	35800
208	87113	86810	86004	88294	87414

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	32698.31	9.00	8.90 - 9.10	
24	215543.69	24.00	23.90 - 24.10	
25	28752.45	25.00	24.90 - 25.10	
26	32777.94	25.95	25.90 - 26.10	
59	75504.77	59.00	58.90 - 59.10	
113	50159.36	113.05	112.90 - 113.10	
115	148139.16	115.05	114.90 - 115.10	
206	88138.76	206.00	205.90 - 206.10	
207	71948.11	206.95	206.90 - 207.10	
208	181796.46	207.95	207.90 - 208.10	
220	0.00	219.55	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.781	0.900	
24	0.63	0.821	0.900	
25	0.63	0.819	0.900	
26	0.63	0.828	0.900	
59	0.52	0.775	0.900	
113	0.44	0.718	0.900	
115	0.44	0.682	0.900	
206	0.48	0.785	0.900	
207	0.49	0.759	0.900	
208	0.48	0.835	0.900	
220	0.25	0.250		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode ---

Nebulizer Gas 0.79 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	9.7 V	Deflect	14.2 V
Extract 2	-140.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-75 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	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	-0.6 mm	Torch V	0.9 mm
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EM

Discriminator	3.2 mV	Analog HV	2161 V	Pulse HV	1454 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		14387	143865.22			0.405	
89		102163	1021632.64			0.414	
205		86425	864252.17			1.049	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	14413	14447	14298	14361	14413
89	102579	101969	102144	101571	102553
205	87817	85931	85428	86708	86242

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.79 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	9.6 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2 -140.0 V

Omega Bias -70 V

Cell Entrance -40 V

Cell Exit -60 V

Plate Bias -60 V

Cell Parameters

Use Gas Yes

He Flow 3.9 mL/min

H2 Flow ---

3rd Gas Flow ---

OctP Bias -18.0 V

OctP RF 190 V

Energy Discrimination 5.0 V

QP Parameters

Mass Gain 122

Mass Offset 125

Axis Gain 1.0002

Axis Offset -0.02

QP Bias -13.0 V

Hardware Settings

Torch

Torch H -0.6 mm

Torch V 0.9 mm

EM

Discriminator 3.2 mV

Analog HV 2161 V

Pulse HV 1454 V