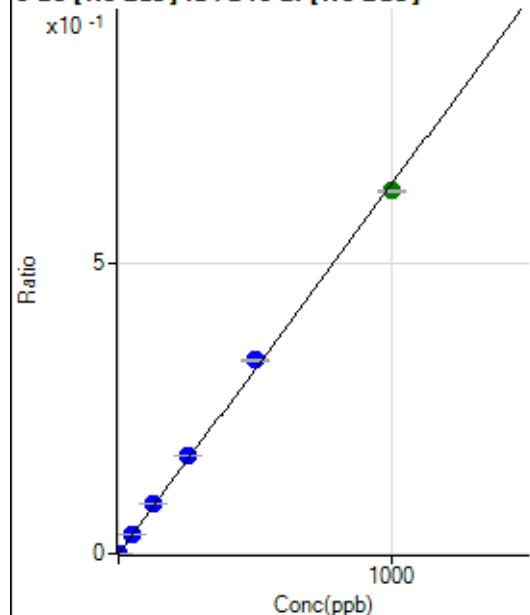


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8020724 MS.b\
 Analysis File: P8020724 MS.batch.bin
 DA Date-Time: 2024-02-07 13:07:58
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-02-07 11:42:40
2	005CALS.d	S02	2024-02-07 11:46:04
3	006CALS.d	S03	2024-02-07 11:49:31
4	007CALS.d	S04	2024-02-07 11:52:46
5	008CALS.d	S05	2024-02-07 11:55:56
6	009CALS.d	S06	2024-02-07 11:58:59
7	010CALS.d	S07	2024-02-07 12:02:03
8	011CALS.d	S08	2024-02-07 12:05:04

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.49	0.0000	P	7.9
2	☐	1.000	1.056	1632.39	0.0007	P	3.6
3	☐	50.000	53.825	76322.39	0.0342	P	1.6
4	☐	125.000	134.602	180552.71	0.0854	P	0.7
5	☐	250.000	265.889	338248.79	0.1686	P	0.9
6	☐	500.000	524.273	649391.26	0.3325	P	1.2
7	☐	1000.000	982.500	1206936.15	0.6231	A	0.8
8	☐			802.85	0.0004	P	65.3

$$y = 6.3414\text{E-}004 * x + 3.6020\text{E-}005$$

$$R = 0.9994$$

$$DL = 0.01343$$

$$BEC = 0.0568$$

Weight: <None>

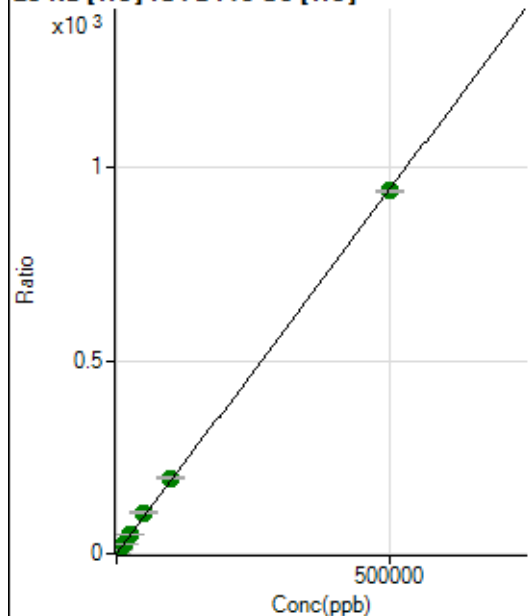
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			1847203.01		A	1.6
2	☐			1763802.15		A	2.5
3	☐			1759014.42		A	1.3
4	☐			1746416.05		A	0.3
5	☐			1719278.36		A	3.2
6	☐			1738164.87		A	3.2
7	☐			2240869.04		A	4.6
8	☐			2059874.81		A	7.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23612.36		P	0.9
2	☐			22644.18		P	1.0
3	☐			22682.00		P	0.5
4	☐			22105.61		P	0.6
5	☐			22017.69		P	1.0
6	☐			23517.77		P	0.5
7	☐			30851.25		P	0.9
8	☐			34484.91		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	11636.94	0.0955	P	2.7
2	☐	500.000	522.475	130755.35	1.0806	P	1.6
3	☐	5000.000	5589.211	1208716.24	10.6329	A	0.5
4	☐	12500.000	13519.144	2803614.47	25.5833	A	1.8
5	☐	25000.000	27135.792	5347227.31	51.2549	A	1.6
6	☐	50000.000	56530.874	10482778.11	106.6737	A	4.0
7	☐	100000.00	104188.54	20054074.28	196.5232	A	0.8
8	☐	500000.00	498371.02	105385919.5	939.6793	A	0.5

$$y = 0.0019 * x + 0.0955$$

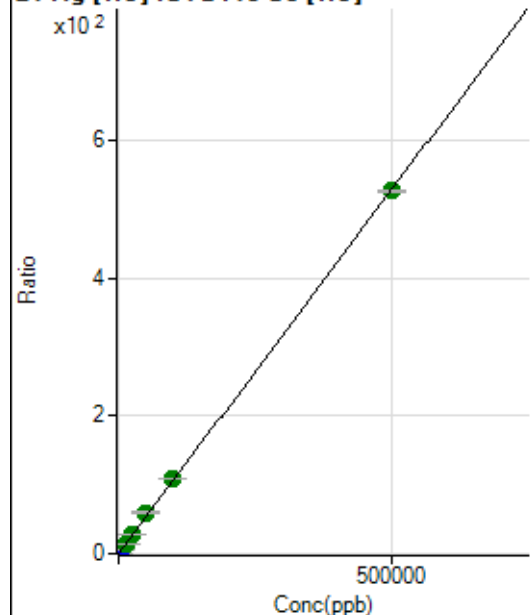
$$R = 0.9999$$

$$DL = 4.162$$

$$BEC = 50.67$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.56	0.0010	P	15.6
2	☐	500.000	525.552	67401.57	0.5570	P	0.5
3	☐	5000.000	5615.578	675365.05	5.9412	P	1.3
4	☐	12500.000	13707.985	1589182.42	14.5013	A	1.6
5	☐	25000.000	27344.812	3017756.59	28.9263	A	0.3
6	☐	50000.000	56536.081	5877286.93	59.8048	A	3.6
7	☐	100000.00	103534.39	11175679.83	109.5195	A	1.1
8	☐	500000.00	498485.89	59134844.67	527.2982	A	0.7

$$y = 0.0011 * x + 0.0010$$

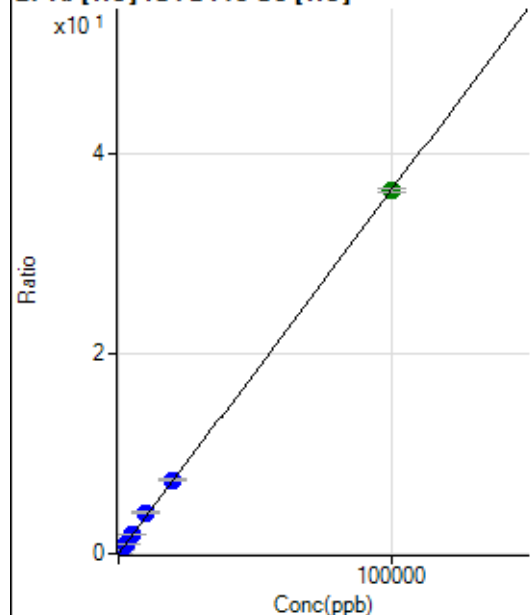
$$R = 0.9999$$

$$DL = 0.4562$$

$$BEC = 0.9752$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	63.33	0.0005	P	26.4
2	☐	20.000	22.402	1048.94	0.0087	P	9.8
3	☐	1000.000	1191.330	49340.04	0.4340	P	1.4
4	☐	2500.000	2647.243	105630.23	0.9638	P	1.2
5	☐	5000.000	5373.274	204042.98	1.9558	P	0.8
6	☐	10000.000	11207.813	400794.49	4.0790	P	4.1
7	☐	20000.000	20346.643	755616.41	7.4046	P	0.5
8	☐	100000.00	99785.632	4072364.49	36.3124	A	0.9

$$y = 3.6390E-004 * x + 5.2011E-004$$

$$R = 0.9999$$

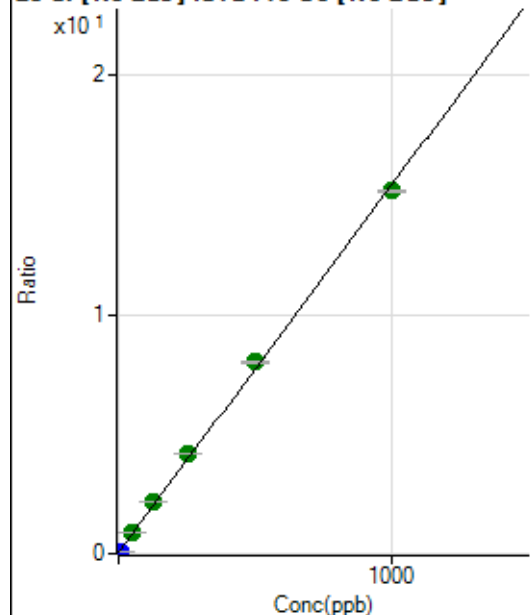
$$DL = 1.134$$

$$BEC = 1.429$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	176712.10	0.0516	P	4.5
2	☐	10.000	0.387	201759.70	0.0576	P	0.6
3	☐	50.000	55.576	3061704.05	0.9047	A	1.1
4	☐	125.000	136.570	7053520.45	2.1478	A	0.9
5	☐	250.000	268.271	13119071.89	4.1692	A	0.2
6	☐	500.000	517.838	24731135.74	7.9998	A	1.0
7	☐	1000.000	984.884	46463134.86	15.1683	A	0.6
8	☐			1105270.15	0.3683	A	4.8

$$y = 0.0153 * x + 0.0516$$

$$R = 0.9994$$

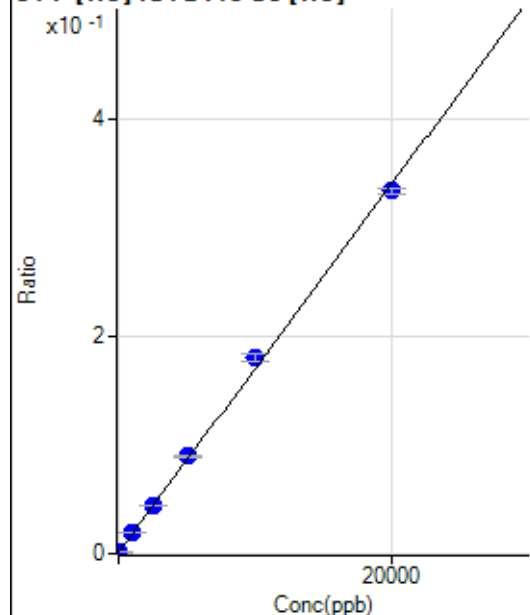
$$DL = 0.4536$$

$$BEC = 3.364$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-15.611	94.44	0.0008	P	6.3
2	☐	0.000	15.611	157.78	0.0013	P	14.5
3	☐	1000.000	1059.176	2159.07	0.0190	P	3.8
4	☐	2500.000	2541.799	4835.29	0.0441	P	2.1
5	☐	5000.000	5236.538	9368.68	0.0898	P	1.3
6	☐	10000.000	10592.457	17742.06	0.1806	P	4.7
7	☐	20000.000	19636.454	34074.51	0.3339	P	1.3
8	☐			133.34	0.0012	P	7.8

$$y = 1.6950E-005 * x + 0.0010$$

$$R = 0.9993$$

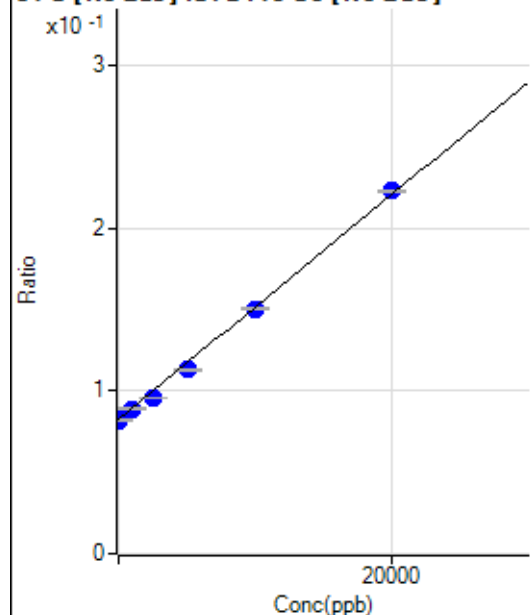
$$DL = 21.02$$

$$BEC = 61.36$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	110.438	285635.49	0.0835	P	4.3
2	☐	0.000	-110.438	287066.64	0.0819	P	1.8
3	☐	1000.000	944.579	301985.29	0.0892	P	0.4
4	☐	2500.000	1888.591	314457.84	0.0957	P	1.2
5	☐	5000.000	4389.148	355609.28	0.1130	P	0.9
6	☐	10000.000	9841.116	465842.64	0.1507	P	0.8
7	☐	20000.000	20311.352	683103.14	0.2230	P	0.6
8	☐			233300.61	0.0778	P	1.3

$$y = 6.9078\text{E-}006 * x + 0.0827$$

$$R = 0.9991$$

$$DL = 1097$$

$$BEC = 1.197\text{E}+04$$

Weight: <None>

Min Conc: 0

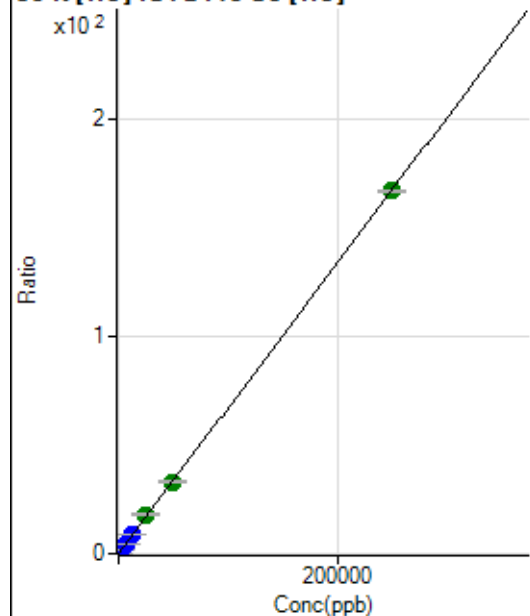
35 Cl [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55605.07		P	0.4
2	☐			58465.13		P	1.7
3	☐			56837.48		P	1.4
4	☐			58262.03		P	0.4
5	☐			57386.40		P	0.7
6	☐			56481.85		P	2.1
7	☐			202405.90		P	3.1
8	☐			119078.19		P	3.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			416.68		P	10.0
2	☐			463.34		P	4.0
3	☐			437.79		P	6.9
4	☐			454.46		P	9.2
5	☐			434.45		P	13.1
6	☐			421.12		P	5.8
7	☐			1423.42		P	3.4
8	☐			1085.61		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7085.13	0.0582	P	2.2
2	☐	500.000	507.020	48015.15	0.3968	P	0.5
3	☐	2500.000	2639.931	207026.91	1.8212	P	0.3
4	☐	6250.000	6451.327	478571.85	4.3665	P	0.5
5	☐	12500.000	12941.839	907746.65	8.7011	P	0.7
6	☐	25000.000	26799.266	1763935.03	17.9554	A	4.8
7	☐	50000.000	49433.955	3374987.62	33.0715	A	1.4
8	☐	250000.00	249904.74	18724474.30	166.9511	A	0.6

$$y = 6.6783E-004 * x + 0.0582$$

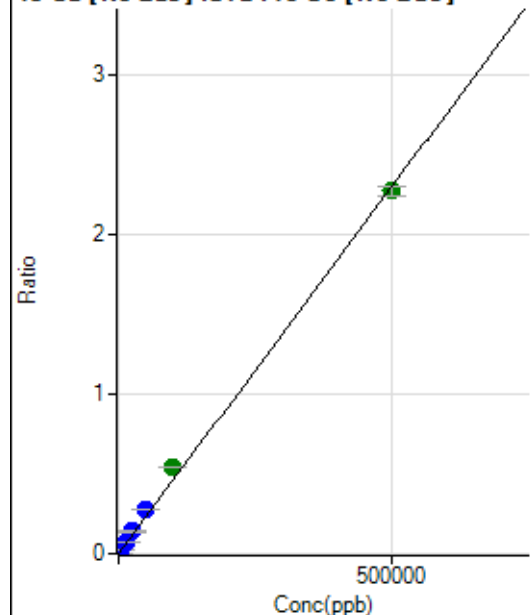
$$R = 1.0000$$

$$DL = 5.841$$

$$BEC = 87.08$$

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	127.78	0.0000	P	1.4
2	☐	500.000	529.027	8652.66	0.0025	P	3.6
3	☐	5000.000	6235.645	97156.54	0.0287	P	1.5
4	☐	12500.000	15311.456	231371.55	0.0704	P	0.7
5	☐	25000.000	30298.107	438460.54	0.1394	P	1.7
6	☐	50000.000	59590.645	847312.59	0.2741	P	1.1
7	☐	100000.00	119116.93	1678015.44	0.5478	A	0.2
8	☐	500000.00	494869.97	6822287.40	2.2758	A	2.4

$$y = 4.5986E-006 * x + 3.7307E-005$$

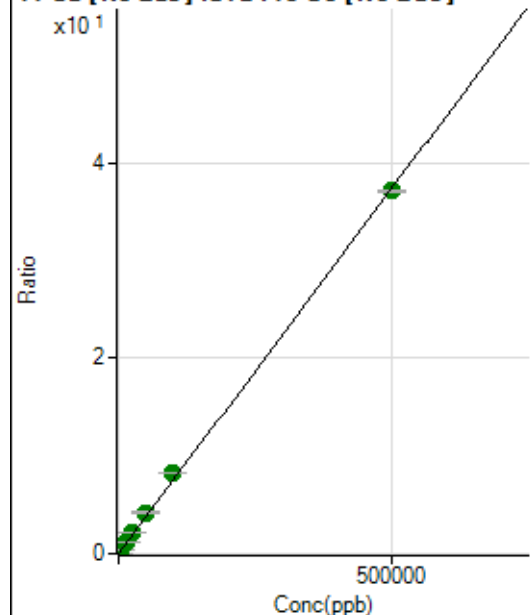
$$R = 0.9991$$

$$DL = 0.3335$$

$$BEC = 8.113$$

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	31790.78	0.0093	P	4.7
2	☐	500.000	535.595	172838.43	0.0493	P	1.8
3	☐	5000.000	5936.861	1533436.56	0.4532	A	1.2
4	☐	12500.000	14576.950	3609824.88	1.0992	A	0.9
5	☐	25000.000	28507.036	6735579.83	2.1407	A	0.5
6	☐	50000.000	56330.404	13048790.36	4.2209	A	1.4
7	☐	100000.00	110167.06	25259024.63	8.2461	A	0.9
8	☐	500000.00	497096.86	111480132.7	37.1755	A	0.4

$$y = 7.4766E-005 * x + 0.0093$$

$$R = 0.9997$$

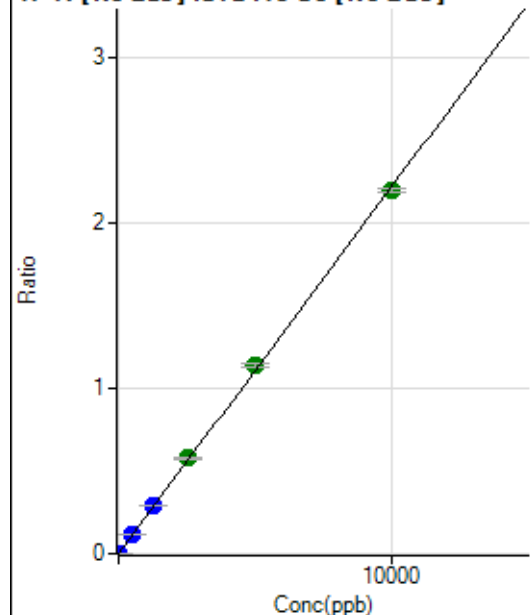
$$DL = 17.69$$

$$BEC = 124.3$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	77.78	0.0000	P	35.1
2	☐	5.000	5.292	4181.77	0.0012	P	6.2
3	☐	500.000	535.161	400843.79	0.1185	P	2.0
4	☐	1250.000	1320.778	960099.99	0.2923	P	0.8
5	☐	2500.000	2605.940	1814441.47	0.5768	A	2.6
6	☐	5000.000	5138.814	3516196.47	1.1374	A	1.2
7	☐	10000.000	9893.503	6707442.05	2.1897	A	1.0
8	☐			4236.50	0.0014	P	72.3

$$y = 2.2133\text{E-}004 * x + 2.2674\text{E-}005$$

$$R = 0.9998$$

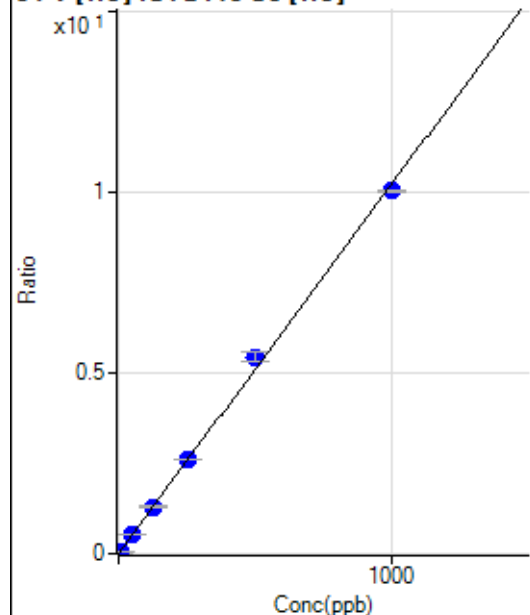
$$DL = 0.1078$$

$$BEC = 0.1024$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35.56	0.0003	P	35.2
2	☐	5.000	5.149	6394.83	0.0528	P	2.3
3	☐	50.000	51.906	60250.63	0.5300	P	1.3
4	☐	125.000	127.234	142339.68	1.2988	P	1.3
5	☐	250.000	254.978	271514.83	2.6025	P	0.9
6	☐	500.000	531.931	533374.75	5.4291	P	4.6
7	☐	1000.000	982.415	1023149.57	10.0266	P	0.9
8	☐			447.79	0.0040	P	5.3

$$y = 0.0102 * x + 2.9160\text{E-}004$$

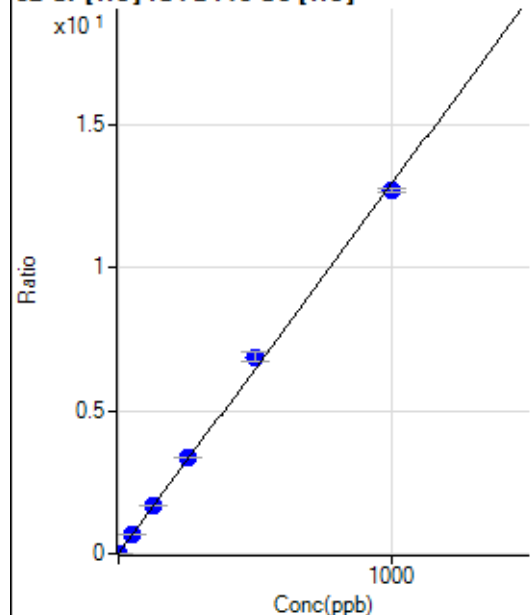
$$R = 0.9992$$

$$DL = 0.03013$$

$$BEC = 0.02857$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	800.03	0.0066	P	11.3
2	☐	2.000	1.996	3911.68	0.0323	P	2.4
3	☐	50.000	52.550	77818.05	0.6846	P	0.4
4	☐	125.000	128.738	182755.24	1.6675	P	0.5
5	☐	250.000	258.356	348430.27	3.3398	P	0.7
6	☐	500.000	531.538	674279.06	6.8643	P	5.2
7	☐	1000.000	981.547	1292898.96	12.6701	P	1.2
8	☐			9399.84	0.0838	P	3.0

$$y = 0.0129 * x + 0.0066$$

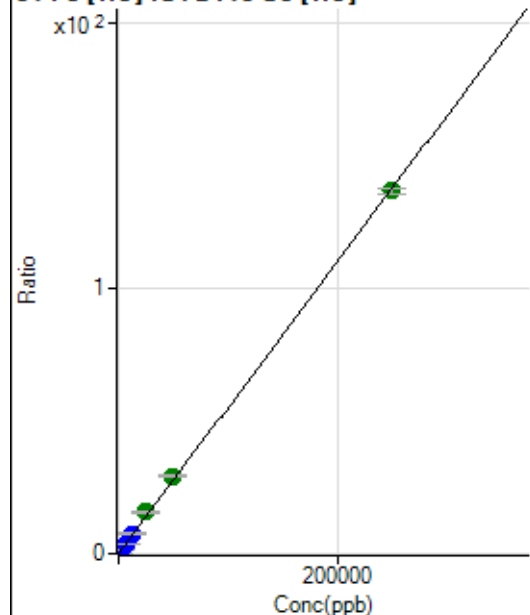
$$R = 0.9992$$

$$DL = 0.1728$$

$$BEC = 0.5089$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	257.78	0.0021	P	20.3
2	☐	50.000	54.217	3857.22	0.0319	P	4.2
3	☐	2500.000	2844.788	177748.31	1.5637	P	1.1
4	☐	6250.000	6923.493	416744.46	3.8025	P	0.6
5	☐	12500.000	13838.709	792709.64	7.5984	P	0.5
6	☐	25000.000	28801.090	1553719.63	15.8114	A	3.8
7	☐	50000.000	53317.838	2986664.54	29.2689	A	1.1
8	☐	250000.00	248869.10	15320657.69	136.6095	A	1.3

$$y = 5.4891E-004 * x + 0.0021$$

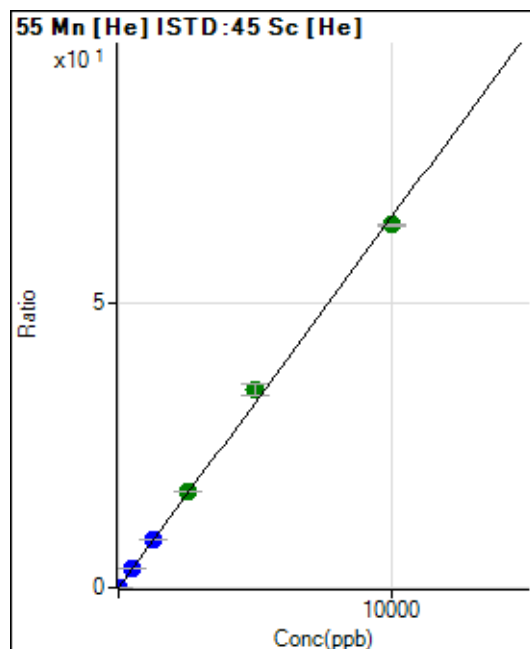
$$R = 0.9998$$

$$DL = 2.353$$

$$BEC = 3.859$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	58.89	0.0005	P	13.3
2	☐	1.000	0.994	842.25	0.0070	P	3.7
3	☐	500.000	520.244	385367.31	3.3901	P	0.7
4	☐	1250.000	1286.865	918964.43	8.3848	P	0.5
5	☐	2500.000	2598.866	1766590.45	16.9330	A	0.9
6	☐	5000.000	5349.278	3423807.03	34.8529	A	5.2
7	☐	10000.000	9795.024	6512311.71	63.8184	A	0.9
8	☐			5887.94	0.0525	P	0.7

$$y = 0.0065 * x + 4.8293E-004$$

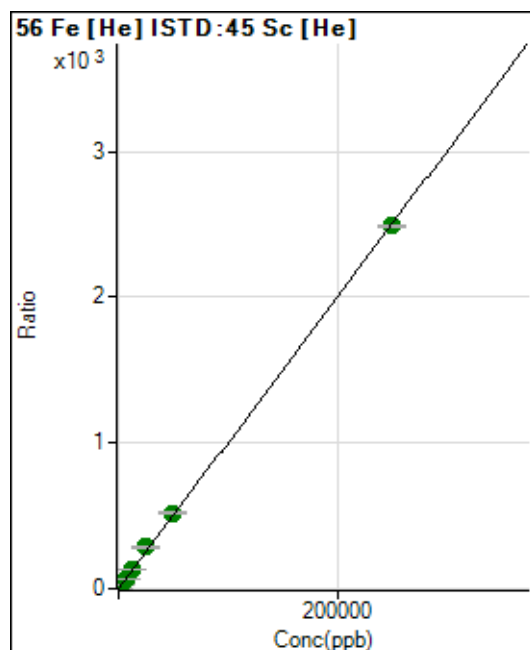
$$R = 0.9990$$

$$DL = 0.02956$$

$$BEC = 0.07412$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1187.84	0.0097	P	6.6
2	☐	50.000	54.218	66703.87	0.5512	P	0.6
3	☐	2500.000	2813.497	3195071.17	28.1075	A	1.2
4	☐	6250.000	6868.339	7518016.90	68.6023	A	1.7
5	☐	12500.000	13790.434	14368940.62	137.7317	A	0.3
6	☐	25000.000	28410.004	27878602.36	283.7341	A	4.2
7	☐	50000.000	52086.625	53080103.09	520.1872	A	2.0
8	☐	250000.00	249158.55	279076062.5	2488.300	A	0.3

$$y = 0.0100 * x + 0.0097$$

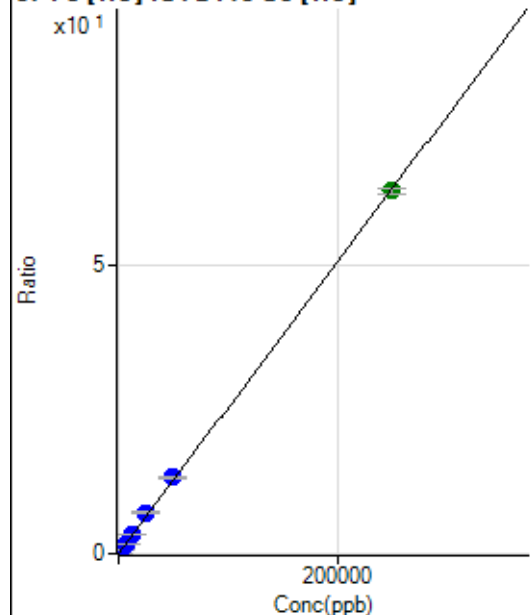
$$R = 0.9999$$

$$DL = 0.1934$$

$$BEC = 0.9762$$

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	63.33	0.0005	P	10.8
2	☐	50.000	53.909	1707.90	0.0141	P	4.4
3	☐	2500.000	2785.334	79874.54	0.7027	P	0.9
4	☐	6250.000	6850.943	189339.75	1.7275	P	0.4
5	☐	12500.000	13768.978	362163.33	3.4715	P	0.6
6	☐	25000.000	28133.818	696833.03	7.0926	P	4.5
7	☐	50000.000	52250.693	1344160.50	13.1721	P	0.7
8	☐	250000.00	249155.15	7044043.30	62.8087	A	1.3

$$y = 2.5208\text{E-}004 * x + 5.1996\text{E-}004$$

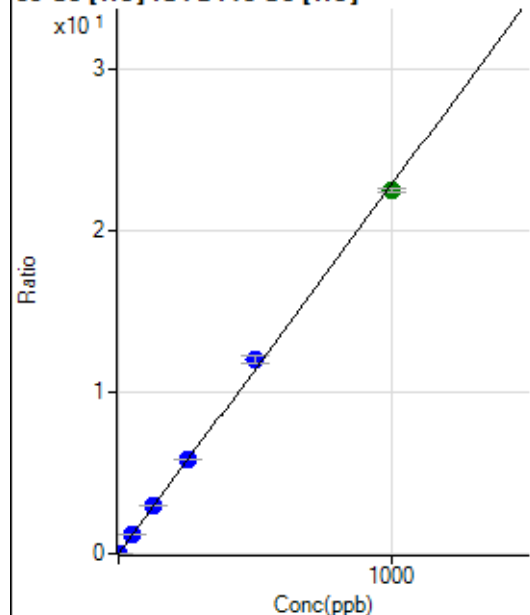
$$R = 0.9999$$

$$DL = 0.6668$$

$$BEC = 2.063$$

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	146.67	0.0012	P	7.6
2	☐	1.000	1.034	3005.91	0.0248	P	3.2
3	☐	50.000	53.111	138219.16	1.2160	P	1.6
4	☐	125.000	128.339	321849.90	2.9366	P	0.2
5	☐	250.000	257.000	613371.05	5.8793	P	0.6
6	☐	500.000	528.161	1187110.33	12.0813	P	4.0
7	☐	1000.000	983.597	2295749.71	22.4981	A	1.2
8	☐			6805.03	0.0607	P	1.8

$$y = 0.0229 * x + 0.0012$$

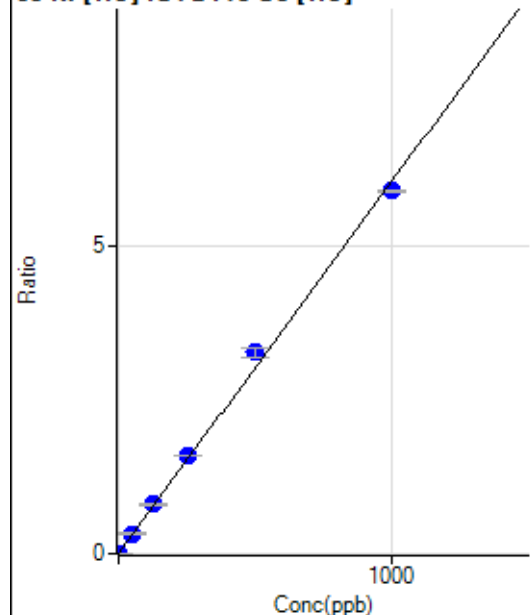
$$R = 0.9994$$

$$DL = 0.01199$$

$$BEC = 0.05265$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	78.89	0.0006	P	17.6
2	☐	1.000	1.096	882.26	0.0073	P	5.9
3	☐	50.000	53.973	37254.22	0.3277	P	1.5
4	☐	125.000	132.201	87871.45	0.8018	P	1.5
5	☐	250.000	263.127	166425.09	1.5952	P	1.1
6	☐	500.000	540.306	321815.61	3.2750	P	3.8
7	☐	1000.000	975.466	603298.09	5.9121	P	0.8
8	☐			3064.80	0.0273	P	2.4

$$y = 0.0061 * x + 6.4754E-004$$

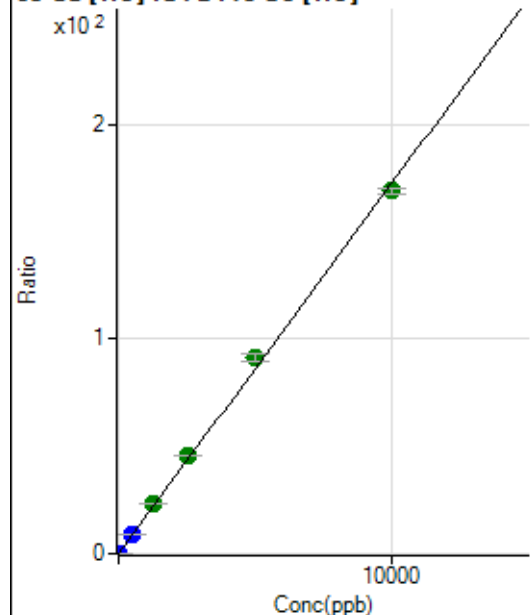
$$R = 0.9987$$

$$DL = 0.05632$$

$$BEC = 0.1069$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	607.80	0.0050	P	6.8
2	☐	2.000	2.072	4924.23	0.0407	P	1.7
3	☐	500.000	536.164	1050842.88	9.2444	P	1.0
4	☐	1250.000	1342.501	2535953.09	23.1395	A	1.2
5	☐	2500.000	2664.785	4791273.33	45.9256	A	0.4
6	☐	5000.000	5282.544	8945882.64	91.0358	A	4.0
7	☐	10000.000	9804.161	17241212.10	168.9540	A	1.3
8	☐			6750.55	0.0602	P	2.4

$$y = 0.0172 * x + 0.0050$$

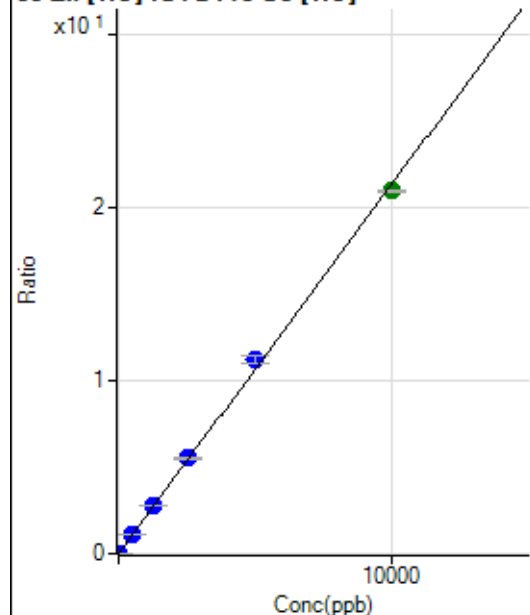
$$R = 0.9992$$

$$DL = 0.05943$$

$$BEC = 0.2894$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	108.89	0.0009	P	7.4
2	☐	2.000	4.871	1365.63	0.0113	P	3.2
3	☐	500.000	526.786	127865.41	1.1248	P	1.2
4	☐	1250.000	1293.643	302603.59	2.7610	P	0.5
5	☐	2500.000	2585.905	575685.87	5.5181	P	0.7
6	☐	5000.000	5282.572	1107514.78	11.2717	P	4.1
7	☐	10000.000	9830.442	2140436.18	20.9750	A	0.9
8	☐			4331.81	0.0386	P	3.2

$$y = 0.0021 * x + 8.9391E-004$$

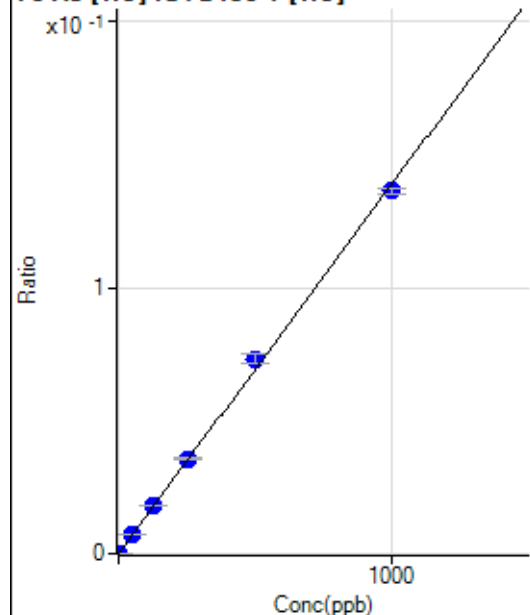
$$R = 0.9994$$

$$DL = 0.09279$$

$$BEC = 0.419$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.67	0.0000	P	50.4
2	☐	1.000	1.005	138.89	0.0001	P	18.6
3	☐	50.000	53.092	6634.96	0.0074	P	1.1
4	☐	125.000	129.260	15676.62	0.0179	P	0.8
5	☐	250.000	256.727	29724.79	0.0356	P	1.5
6	☐	500.000	528.825	57619.38	0.0733	P	5.6
7	☐	1000.000	983.218	111043.86	0.1363	P	1.3
8	☐			96.67	0.0001	P	4.5

$$y = 1.3864E-004 * x + 6.9491E-006$$

$$R = 0.9993$$

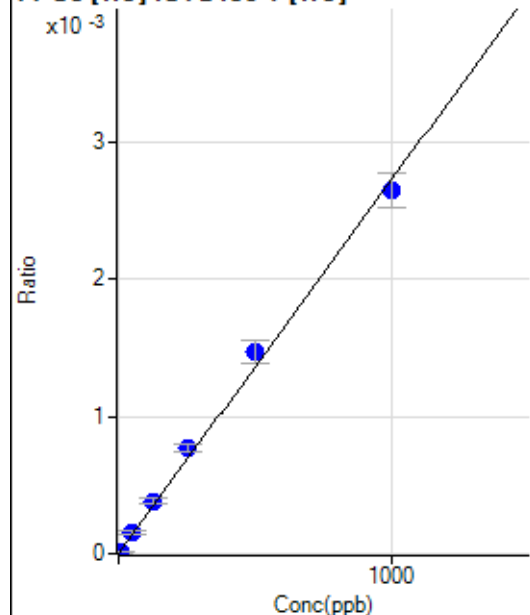
$$DL = 0.07582$$

$$BEC = 0.05012$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	5.000	4.740	13.33	0.0000	P	66.4
3	☐	50.000	58.005	143.34	0.0002	P	20.2
4	☐	125.000	140.975	336.68	0.0004	P	13.8
5	☐	250.000	282.543	643.35	0.0008	P	6.1
6	☐	500.000	537.736	1148.95	0.0015	P	11.5
7	☐	1000.000	970.601	2153.52	0.0026	P	9.6
8	☐			12.22	0.0000	P	57.4

$$y = 2.7223\text{E-}006 * x + 1.1521\text{E-}006$$

$$R = 0.9983$$

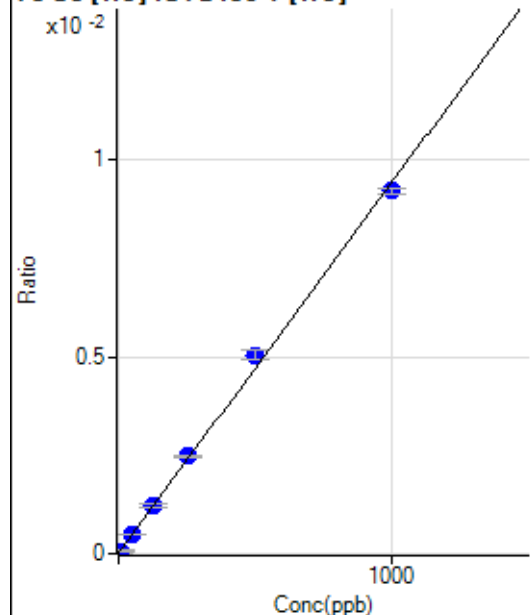
$$DL = 2.199$$

$$BEC = 0.4232$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	15.3
2	☐	5.000	5.610	62.22	0.0001	P	51.7
3	☐	50.000	52.174	453.35	0.0005	P	3.5
4	☐	125.000	129.698	1077.83	0.0012	P	9.7
5	☐	250.000	260.986	2060.17	0.0025	P	2.7
6	☐	500.000	535.829	3970.60	0.0051	P	5.3
7	☐	1000.000	978.640	7508.75	0.0092	P	1.7
8	☐			63.33	0.0001	P	46.6

$$y = 9.4039\text{E-}006 * x + 1.2715\text{E-}005$$

$$R = 0.9990$$

$$DL = 0.6218$$

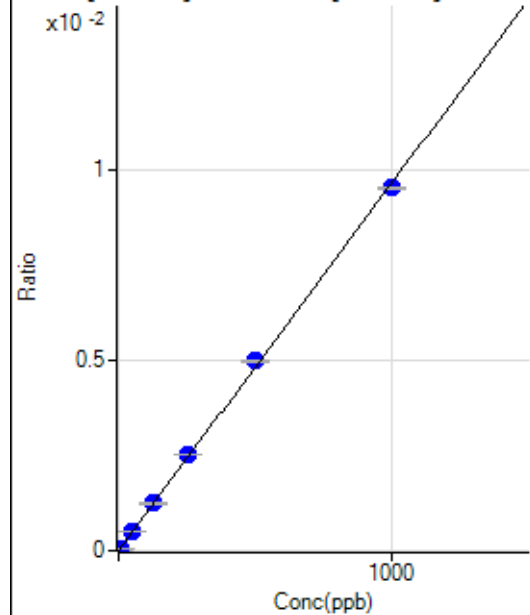
$$BEC = 1.352$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1770.13		P	4.2
2	☐			1784.58		P	2.9
3	☐			1607.89		P	8.0
4	☐			1570.10		P	2.4
5	☐			1434.53		P	7.6
6	☐			1447.87		P	3.6
7	☐			1571.22		P	1.8
8	☐			3394.89		P	14.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	-23.34	0.0000	P	-74.
2	☐	5.000	5.074	415.57	0.0000	P	22.8
3	☐	50.000	51.371	4360.77	0.0005	P	1.8
4	☐	125.000	128.988	10716.55	0.0012	P	3.2
5	☐	250.000	261.784	20784.64	0.0025	P	1.3
6	☐	500.000	516.783	39945.03	0.0050	P	1.1
7	☐	1000.000	988.095	76530.55	0.0095	P	0.8
8	☐			444.46	0.0001	P	14.0

$$y = 9.6590E-006 * x - 2.6845E-006$$

$$R = 0.9997$$

$$DL = 0.6222$$

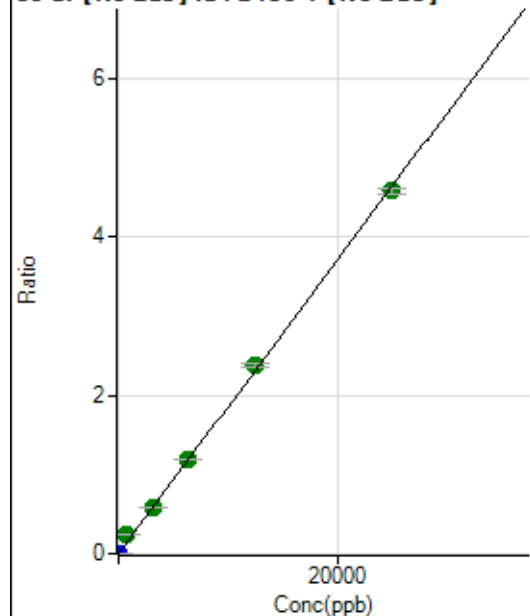
$$BEC = -0.2779$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			186.67		P	17.2
2	☐			194.45		P	25.3
3	☐			156.67		P	12.9
4	☐			174.45		P	6.7
5	☐			170.00		P	7.1
6	☐			151.11		P	13.3
7	☐			156.67		P	18.5
8	☐			150.00		P	17.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	340.01	0.0000	P	4.6
2	☐	1.000	1.050	2092.40	0.0002	P	1.3
3	☐	625.000	1284.182	2100046.06	0.2377	A	1.9
4	☐	3125.000	3184.760	5082351.80	0.5895	A	0.6
5	☐	6250.000	6428.384	9791561.59	1.1899	A	0.3
6	☐	12500.000	12869.909	19073022.91	2.3823	A	2.3
7	☐	25000.000	24746.500	36739197.23	4.5806	A	1.8
8	☐			18714.99	0.0024	P	78.0

$$y = 1.8510E-004 * x + 3.8476E-005$$

$$R = 0.9996$$

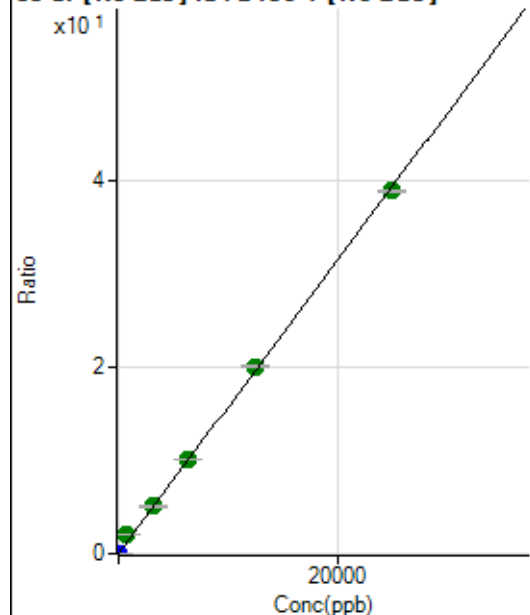
$$DL = 0.02846$$

$$BEC = 0.2079$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	604.46	0.0001	P	13.2
2	☐	1.000	1.027	15081.57	0.0017	P	2.2
3	☐	625.000	1296.213	17950997.23	2.0324	A	2.5
4	☐	3125.000	3223.090	43565836.02	5.0535	A	0.9
5	☐	6250.000	6467.740	83444597.65	10.1408	A	0.3
6	☐	12500.000	12781.804	160458256.5	20.0405	A	0.8
7	☐	25000.000	24775.621	311571355.3	38.8455	A	0.9
8	☐			166559.83	0.0213	P	80.9

$$y = 0.0016 * x + 6.8568E-005$$

$$R = 0.9996$$

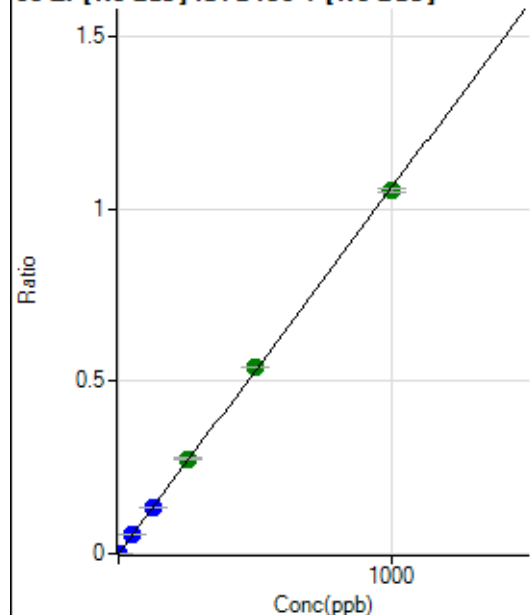
$$DL = 0.01736$$

$$BEC = 0.04373$$

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	305.56	0.0000	P	12.3
2	☐	1.000	0.970	9570.03	0.0011	P	2.8
3	☐	50.000	51.041	479315.90	0.0543	P	2.1
4	☐	125.000	127.864	1171401.14	0.1359	P	1.3
5	☐	250.000	259.540	2269304.22	0.2758	A	1.1
6	☐	500.000	510.746	4345221.46	0.5427	A	0.7
7	☐	1000.000	991.832	8452731.54	1.0538	A	0.9
8	☐			6939.96	0.0009	P	51.7

$$y = 0.0011 * x + 3.4575E-005$$

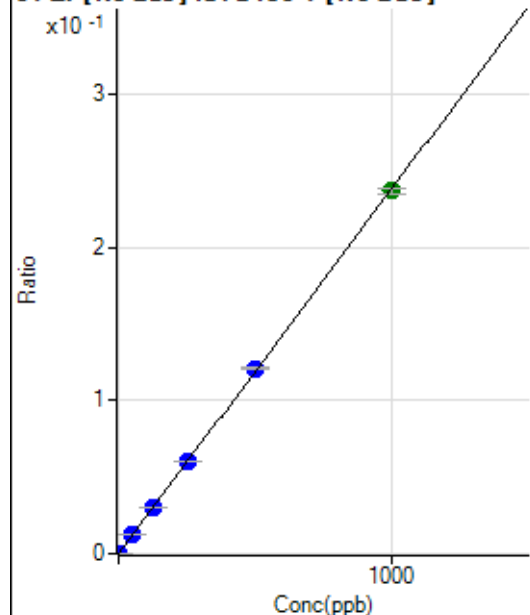
$$R = 0.9999$$

$$DL = 0.01203$$

$$BEC = 0.03254$$

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	62.22	0.0000	P	5.2
2	☐	1.000	0.960	2115.74	0.0002	P	7.6
3	☐	50.000	50.978	107278.29	0.0121	P	2.3
4	☐	125.000	126.917	260580.12	0.0302	P	0.7
5	☐	250.000	254.406	498519.07	0.0606	P	0.6
6	☐	500.000	507.062	966771.57	0.1207	P	1.1
7	☐	1000.000	995.079	1900423.32	0.2369	A	1.5
8	☐			1597.91	0.0002	P	50.6

$$y = 2.3811\text{E-}004 * x + 7.0349\text{E-}006$$

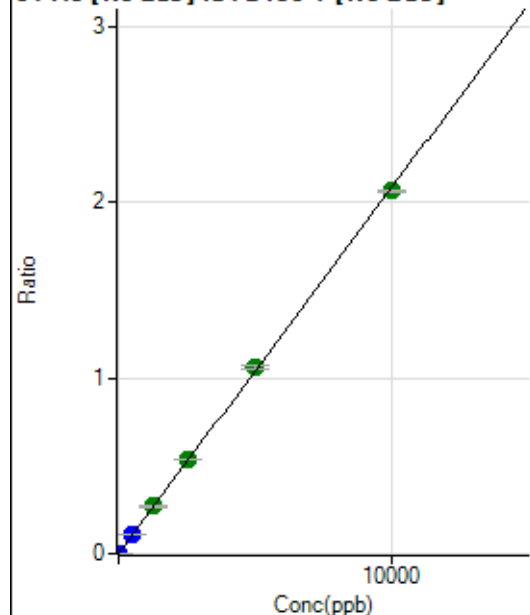
$$R = 1.0000$$

$$DL = 0.004607$$

$$BEC = 0.02955$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	152.22	0.0000	P	17.6
2	☐	5.000	5.975	11324.71	0.0013	P	1.4
3	☐	500.000	522.414	960428.57	0.1087	P	2.0
4	☐	1250.000	1289.256	2312924.08	0.2683	A	1.8
5	☐	2500.000	2594.759	4443378.55	0.5400	A	0.4
6	☐	5000.000	5104.703	8505162.65	1.0623	A	2.0
7	☐	10000.000	9917.930	16554803.64	2.0639	A	0.4
8	☐			10880.27	0.0014	P	66.2

$$y = 2.0810\text{E-}004 * x + 1.7168\text{E-}005$$

$$R = 0.9999$$

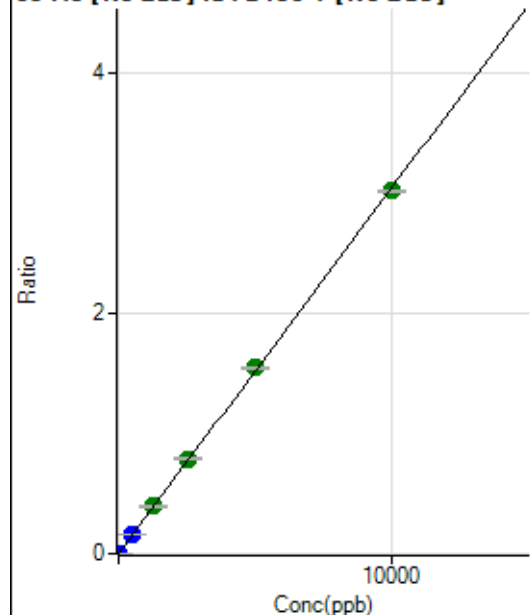
$$DL = 0.04348$$

$$BEC = 0.0825$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	12.9
2	☐	5.000	5.040	13840.30	0.0015	P	3.3
3	☐	500.000	511.739	1374577.47	0.1556	P	2.6
4	☐	1250.000	1298.065	3402946.62	0.3948	A	1.6
5	☐	2500.000	2595.944	6496113.17	0.7894	A	0.9
6	☐	5000.000	5083.339	12376979.26	1.5459	A	1.5
7	☐	10000.000	9927.750	24216637.69	3.0191	A	0.6
8	☐			14885.74	0.0019	P	69.3

$$y = 3.0410\text{E-}004 * x + 8.3159\text{E-}006$$

$$R = 0.9999$$

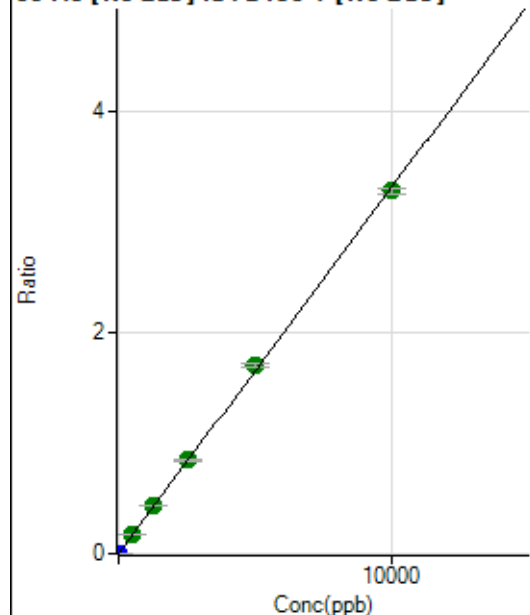
$$DL = 0.01055$$

$$BEC = 0.02735$$

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	147.78	0.0000	P	5.7
2	☐	5.000	5.181	15545.46	0.0017	P	2.7
3	☐	500.000	516.032	1508278.48	0.1707	A	1.8
4	☐	1250.000	1302.880	3715866.86	0.4311	A	2.1
5	☐	2500.000	2551.839	6946857.88	0.8443	A	2.6
6	☐	5000.000	5139.312	13614129.52	1.7004	A	1.6
7	☐	10000.000	9909.973	26298143.77	3.2788	A	1.2
8	☐			15994.02	0.0020	P	71.8

$$y = 3.3086\text{E-}004 * x + 1.6685\text{E-}005$$

$$R = 0.9998$$

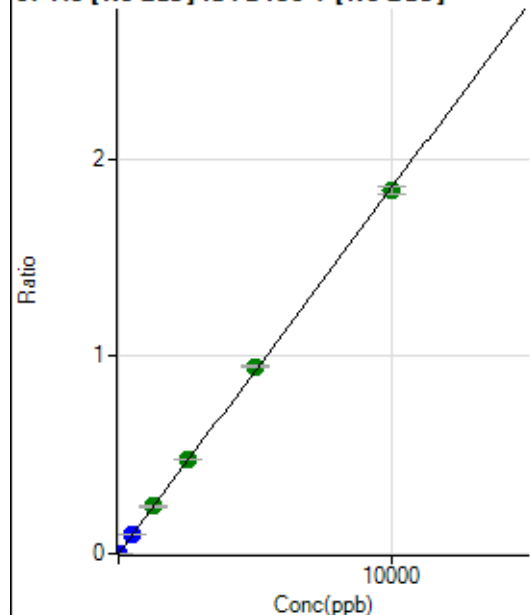
$$DL = 0.008674$$

$$BEC = 0.05043$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	23.3
2	☐	5.000	5.098	8526.02	0.0009	P	2.7
3	☐	500.000	525.959	861091.14	0.0975	P	2.5
4	☐	1250.000	1297.311	2072745.80	0.2405	A	2.0
5	☐	2500.000	2574.063	3925884.21	0.4771	A	0.6
6	☐	5000.000	5111.737	7585815.58	0.9475	A	1.4
7	☐	10000.000	9918.404	14744301.17	1.8384	A	2.2
8	☐			8641.47	0.0011	P	67.2

$$y = 1.8535E-004 * x + 4.3764E-006$$

$$R = 0.9999$$

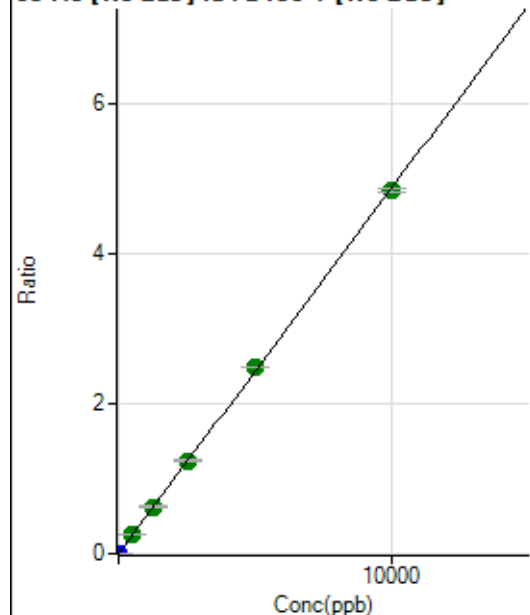
$$DL = 0.0165$$

$$BEC = 0.02361$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	115.56	0.0000	P	45.1
2	☐	5.000	4.995	22008.66	0.0025	P	1.8
3	☐	500.000	515.325	2220670.85	0.2514	A	2.1
4	☐	1250.000	1288.978	5420239.16	0.6288	A	2.2
5	☐	2500.000	2552.556	10246507.07	1.2452	A	0.3
6	☐	5000.000	5102.255	19929342.48	2.4890	A	0.3
7	☐	10000.000	9930.095	38854530.26	4.8442	A	1.1
8	☐			22491.25	0.0029	P	71.1

$$y = 4.8783E-004 * x + 1.3214E-005$$

$$R = 0.9999$$

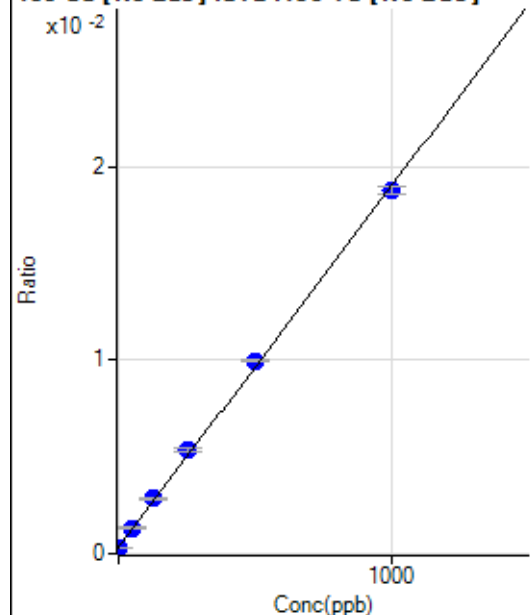
$$DL = 0.03663$$

$$BEC = 0.02709$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2227.98	0.0003	P	3.9
2	☐	1.000	0.372	2351.34	0.0003	P	2.5
3	☐	50.000	54.496	9651.26	0.0013	P	2.2
4	☐	125.000	134.736	20272.77	0.0028	P	3.6
5	☐	250.000	268.711	37028.48	0.0053	P	3.6
6	☐	500.000	515.549	68598.43	0.0099	P	1.3
7	☐	1000.000	986.106	129629.08	0.0187	P	2.0
8	☐			2020.17	0.0003	P	4.5

$$y = 1.8677\text{E-}005 * x + 3.1454\text{E-}004$$

$$R = 0.9996$$

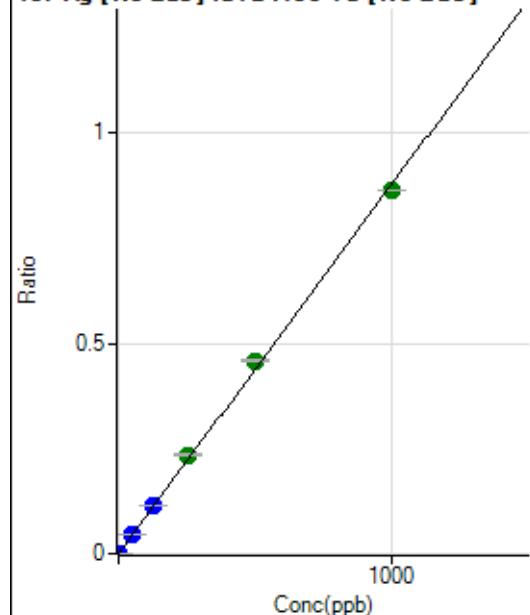
$$DL = 1.965$$

$$BEC = 16.84$$

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	43.33	0.0000	P	5.6
2	☐	1.000	1.011	6530.50	0.0009	P	4.5
3	☐	50.000	53.881	342299.24	0.0473	P	0.7
4	☐	125.000	131.886	828553.44	0.1157	P	0.9
5	☐	250.000	267.420	1628935.34	0.2345	A	1.5
6	☐	500.000	523.103	3165011.65	0.4588	A	1.0
7	☐	1000.000	983.039	5967260.60	0.8621	A	0.1
8	☐			2761.56	0.0004	P	82.3

$$y = 8.7702\text{E-}004 * x + 6.1210\text{E-}006$$

$$R = 0.9994$$

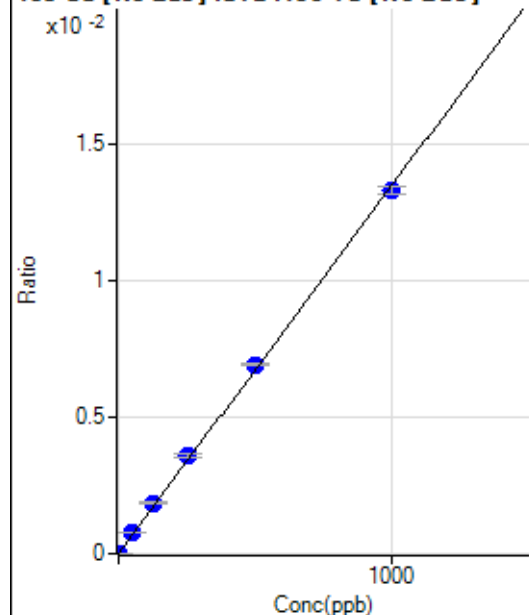
$$DL = 0.001167$$

$$BEC = 0.006979$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.78	0.0000	P	63.2
2	☐	1.000	1.072	113.34	0.0000	P	13.9
3	☐	50.000	55.753	5438.89	0.0008	P	1.2
4	☐	125.000	137.854	13286.50	0.0019	P	1.8
5	☐	250.000	267.193	24961.60	0.0036	P	2.6
6	☐	500.000	514.523	47744.71	0.0069	P	1.7
7	☐	1000.000	986.546	91825.91	0.0133	P	2.1
8	☐			163.34	0.0000	P	39.5

$$y = 1.3449\text{E-}005 * x + 1.0951\text{E-}006$$

$$R = 0.9996$$

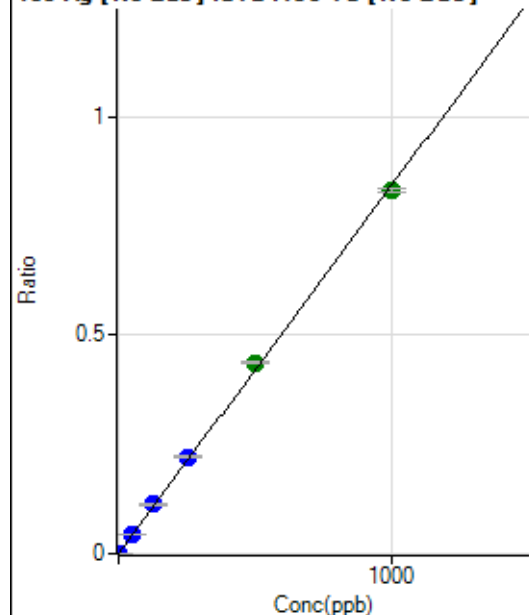
$$DL = 0.1544$$

$$BEC = 0.08142$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	17.78	0.0000	P	34.3
2	☐	1.000	1.046	6457.12	0.0009	P	3.0
3	☐	50.000	54.715	333573.29	0.0461	P	0.3
4	☐	125.000	133.928	807276.77	0.1127	P	2.4
5	☐	250.000	263.591	1540679.20	0.2219	P	2.0
6	☐	500.000	519.204	3014745.79	0.4370	A	1.0
7	☐	1000.000	985.648	5741360.40	0.8296	A	1.2
8	☐			2746.01	0.0004	P	84.6

$$y = 8.4166\text{E-}004 * x + 2.5359\text{E-}006$$

$$R = 0.9996$$

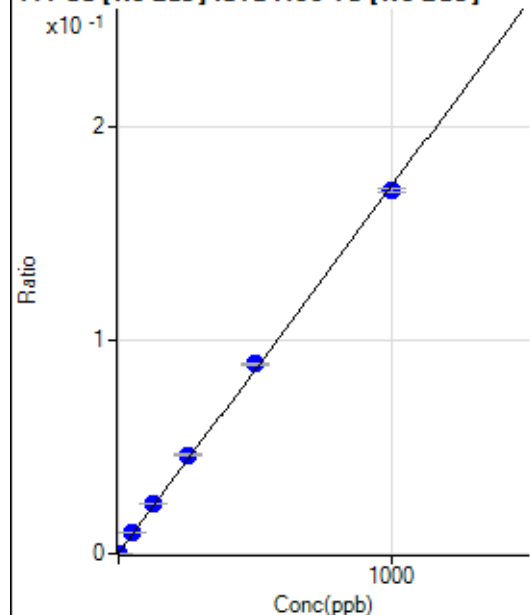
$$DL = 0.003101$$

$$BEC = 0.003013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1584.14	0.0002	P	3.7
2	☐	1.000	1.092	3011.14	0.0004	P	3.8
3	☐	50.000	55.073	70305.95	0.0097	P	1.5
4	☐	125.000	134.024	166925.45	0.0233	P	0.7
5	☐	250.000	266.383	320130.28	0.0461	P	2.0
6	☐	500.000	515.382	613868.92	0.0890	P	0.4
7	☐	1000.000	986.831	1177661.57	0.1702	P	1.2
8	☐			2559.86	0.0004	P	18.2

$$y = 1.7221\text{E-}004 * x + 2.2363\text{E-}004$$

$$R = 0.9997$$

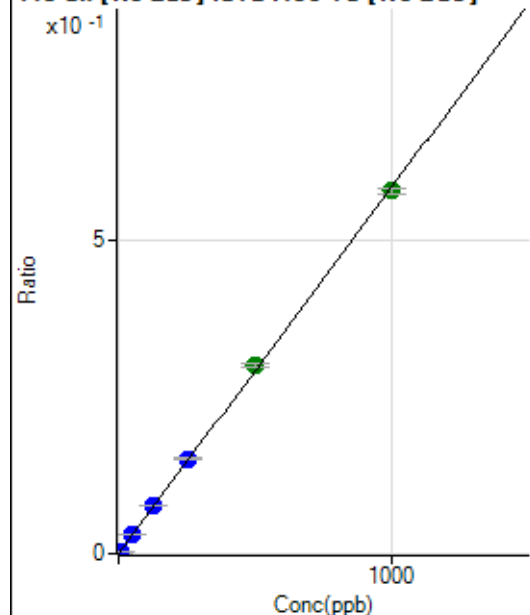
$$DL = 0.1446$$

$$BEC = 1.299$$

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	597.80	0.0001	P	7.8
2	☐	5.000	5.183	22802.40	0.0031	P	0.7
3	☐	50.000	53.031	225381.10	0.0311	P	1.2
4	☐	125.000	131.493	551769.91	0.0770	P	1.5
5	☐	250.000	258.985	1053241.35	0.1516	P	1.4
6	☐	500.000	512.375	2069086.36	0.2999	A	2.1
7	☐	1000.000	990.602	4012458.20	0.5798	A	1.6
8	☐			4749.82	0.0007	P	33.8

$$y = 5.8522\text{E-}004 * x + 8.4401\text{E-}005$$

$$R = 0.9998$$

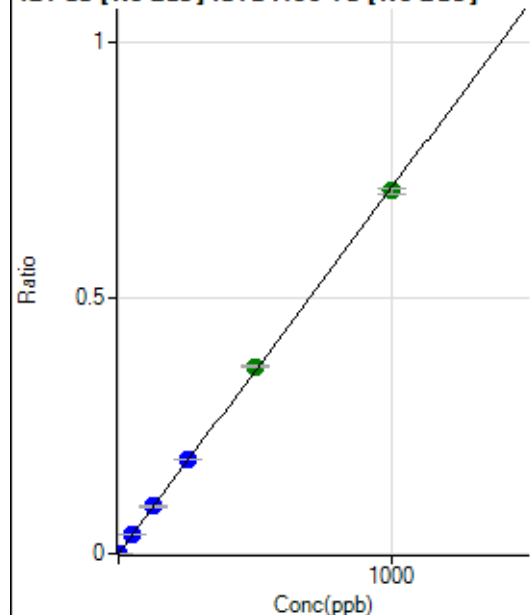
$$DL = 0.03372$$

$$BEC = 0.1442$$

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	101.11	0.0000	P	31.0
2	☐	2.000	2.048	10831.03	0.0015	P	0.4
3	☐	50.000	51.717	268215.01	0.0370	P	1.8
4	☐	125.000	128.873	660809.22	0.0923	P	1.9
5	☐	250.000	257.849	1281952.46	0.1846	P	1.8
6	☐	500.000	511.552	2526507.71	0.3662	A	0.5
7	☐	1000.000	991.692	4912991.49	0.7099	A	1.4
8	☐			6522.82	0.0010	P	25.3

$$y = 7.1584\text{E-}004 * x + 1.4416\text{E-}005$$

$$R = 0.9999$$

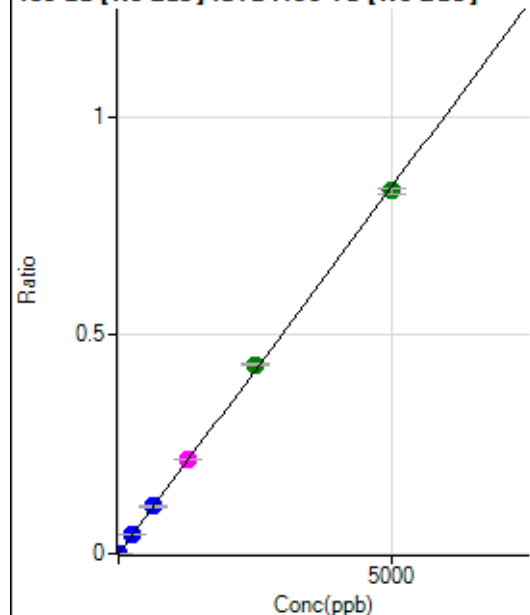
$$DL = 0.01873$$

$$BEC = 0.02014$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	131.12	0.0000	P	6.5
2	☐	10.000	10.151	12595.95	0.0017	P	1.4
3	☐	250.000	258.512	314374.83	0.0434	P	0.7
4	☐	625.000	642.741	772746.08	0.1079	P	1.7
5	☐	1250.000	1282.980	1495714.30	0.2153	M	1.0
6	☐	2500.000	2582.747	2990772.11	0.4335	A	1.2
7	☐	5000.000	4947.738	5746923.11	0.8304	A	1.6
8	☐			5603.61	0.0008	P	46.5

$$y = 1.6783\text{E-}004 * x + 1.8490\text{E-}005$$

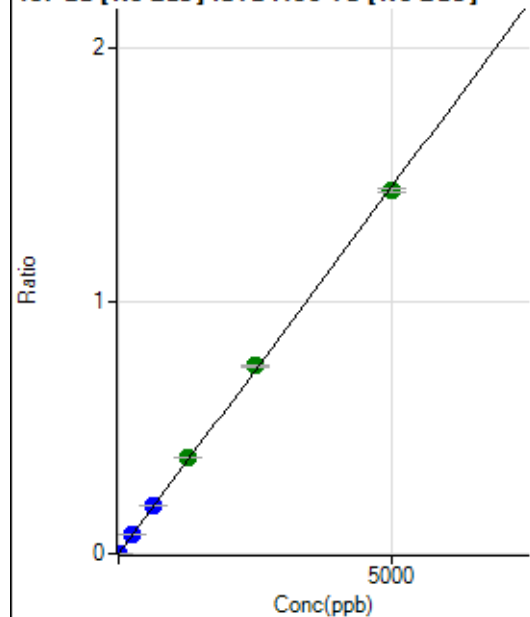
$$R = 0.9998$$

$$DL = 0.0215$$

$$BEC = 0.1102$$

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	140.00	0.0000	P	18.2
2	☐	10.000	10.430	22270.68	0.0030	P	3.2
3	☐	250.000	264.426	555653.54	0.0767	P	1.9
4	☐	625.000	656.346	1363789.41	0.1904	P	1.6
5	☐	1250.000	1319.880	2659891.77	0.3829	A	0.5
6	☐	2500.000	2560.444	5124362.32	0.7428	A	0.4
7	☐	5000.000	4947.668	9933816.38	1.4353	A	1.0
8	☐			9885.34	0.0015	P	44.4

$$y = 2.9008E-004 * x + 1.9739E-005$$

$$R = 0.9998$$

$$DL = 0.03712$$

$$BEC = 0.06805$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12.22		P	15.7
2	☐			12.22		P	68.7
3	☐			28.89		P	37.1
4	☐			52.22		P	25.8
5	☐			98.89		P	22.4
6	☐			185.56		P	9.2
7	☐			305.56		P	12.4
8	☐			190.00		P	3.5

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			1.11		P	173.
4	☐			11.11		P	17.3
5	☐			15.56		P	12.4
6	☐			23.33		P	42.9
7	☐			45.56		P	4.2
8	☐			62.22		P	40.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	24.7
2	☐			7.78		P	65.5
3	☐			24.44		P	7.9
4	☐			62.22		P	32.7
5	☐			102.23		P	27.7
6	☐			194.45		P	16.6
7	☐			334.45		P	6.8
8	☐			1072.27		P	4.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			8.89		P	78.1
3	☐			13.33		P	90.1
4	☐			28.89		P	13.3
5	☐			44.44		P	26.3
6	☐			93.33		P	12.9
7	☐			176.67		P	13.6
8	☐			573.35		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			37.78		P	31.0
2	☐			63.33		P	5.3
3	☐			41.11		P	44.7
4	☐			80.00		P	29.2
5	☐			135.56		P	20.9
6	☐			207.78		P	8.1
7	☐			358.90		P	7.5
8	☐			1250.07		P	7.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			84.44		P	25.7
2	☐			95.55		P	11.2
3	☐			73.33		P	24.1
4	☐			80.00		P	29.2
5	☐			101.11		P	35.3
6	☐			138.89		P	21.8
7	☐			208.89		P	6.4
8	☐			703.36		P	8.8

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	41.7
2	☐			71.11		P	18.9
3	☐			63.33		P	29.3
4	☐			78.89		P	10.6
5	☐			70.00		P	14.3
6	☐			113.34		P	5.1
7	☐			164.45		P	18.8
8	☐			182.22		P	11.2

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	52.9
2	☐			20.00		P	44.1
3	☐			16.67		P	20.0
4	☐			22.22		P	67.6
5	☐			32.22		P	63.2
6	☐			40.00		P	54.6
7	☐			76.66		P	19.9
8	☐			67.78		P	12.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			48.89		P	20.8
2	☐			45.55		P	15.2
3	☐			62.22		P	8.2
4	☐			56.67		P	35.3
5	☐			65.55		P	16.3
6	☐			91.11		P	4.2
7	☐			152.22		P	4.6
8	☐			167.78		P	20.3

172 Yb [He] No available calibration points

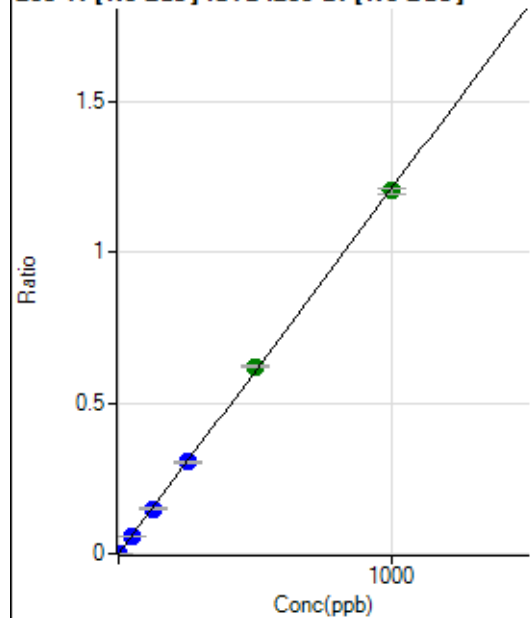
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			25.56		P	19.9
2	☐			18.89		P	40.7
3	☐			27.78		P	42.1
4	☐			27.78		P	50.0
5	☐			46.67		P	14.3
6	☐			48.89		P	32.2
7	☐			73.33		P	29.8
8	☐			80.00		P	18.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			771.14		P	15.4
2	☐			816.70		P	7.1
3	☐			2042.40		P	4.6
4	☐			3787.25		P	4.9
5	☐			6984.13		P	2.8
6	☐			12778.51		P	1.4
7	☐			24456.05		P	0.3
8	☐			717.81		P	8.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6790.70		P	0.9
2	☐			6675.08		P	2.0
3	☐			6821.83		P	1.2
4	☐			7391.03		P	3.4
5	☐			8598.44		P	1.5
6	☐			10651.06		P	2.3
7	☐			15593.72		P	0.8
8	☐			6153.72		P	2.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	214.45	0.0000	P	2.4
2	☐	1.000	0.930	5911.42	0.0012	P	0.6
3	☐	50.000	49.183	296440.47	0.0596	P	1.9
4	☐	125.000	123.228	738736.49	0.1492	P	1.2
5	☐	250.000	250.409	1444352.95	0.3031	P	1.7
6	☐	500.000	512.407	2931948.19	0.6202	A	1.2
7	☐	1000.000	993.957	5678509.57	1.2030	A	1.8
8	☐			4080.83	0.0010	P	53.2

$$y = 0.0012 * x + 4.3790E-005$$

$$R = 0.9999$$

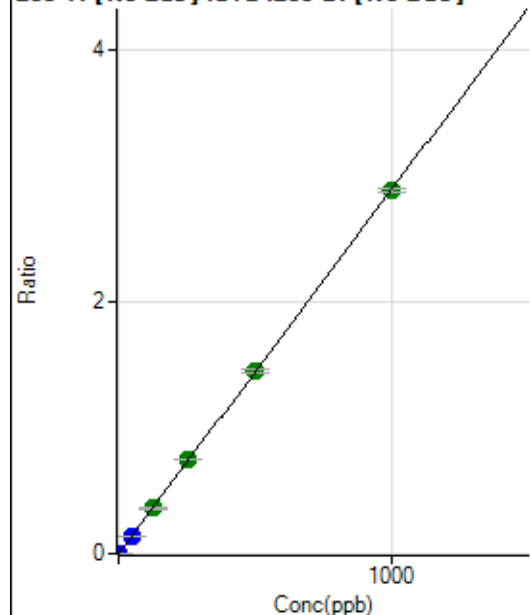
$$DL = 0.002571$$

$$BEC = 0.03618$$

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	435.57	0.0001	P	10.6
2	☐	1.000	0.956	14399.22	0.0028	P	1.9
3	☐	50.000	49.046	705363.30	0.1417	P	1.8
4	☐	125.000	125.381	1793380.84	0.3622	A	2.4
5	☐	250.000	260.195	3581693.03	0.7516	A	0.6
6	☐	500.000	501.122	6842131.15	1.4474	A	1.7
7	☐	1000.000	996.891	13591596.74	2.8792	A	1.2
8	☐			10052.56	0.0024	P	51.0

$$y = 0.0029 * x + 8.9267E-005$$

$$R = 0.9999$$

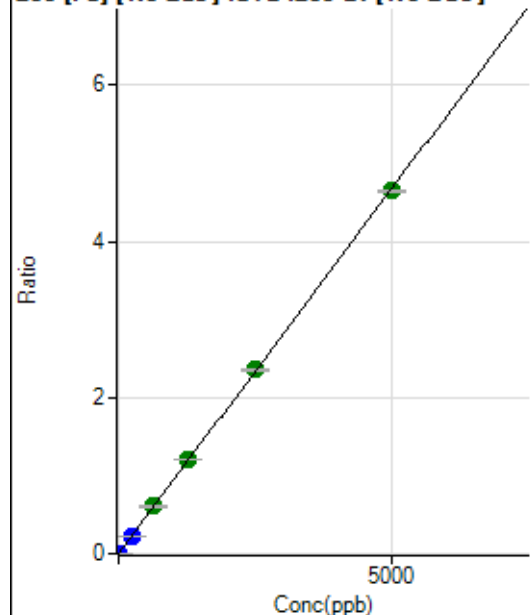
$$DL = 0.009808$$

$$BEC = 0.03091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	494.46	0.0001	P	2.6
2	☐	1.000	0.966	5072.16	0.0010	P	0.4
3	☐	250.000	245.677	1142672.26	0.2296	P	1.0
4	☐	625.000	649.636	3005086.87	0.6069	A	2.7
5	☐	1250.000	1299.840	5786830.88	1.2143	A	0.1
6	☐	2500.000	2521.038	11133182.20	2.3550	A	1.1
7	☐	5000.000	4974.158	21934806.34	4.6465	A	0.9
8	☐			21365.39	0.0050	P	40.6

$$y = 9.3411E-004 * x + 1.0098E-004$$

$$R = 0.9999$$

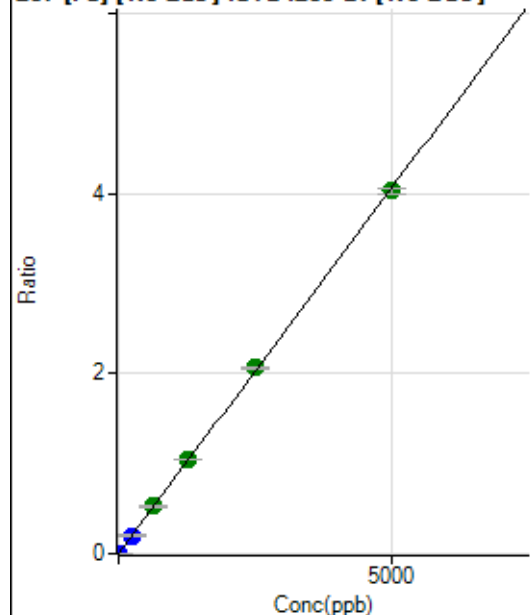
$$DL = 0.008433$$

$$BEC = 0.1081$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	395.57	0.0001	P	8.1
2	☐	1.000	1.013	4558.63	0.0009	P	2.5
3	☐	250.000	248.341	1002604.86	0.2015	P	1.6
4	☐	625.000	644.949	2590132.77	0.5231	A	3.3
5	☐	1250.000	1294.630	5003288.82	1.0499	A	0.8
6	☐	2500.000	2543.336	9749945.62	2.0625	A	1.1
7	☐	5000.000	4964.764	19008075.69	4.0261	A	1.5
8	☐			18799.68	0.0044	P	37.6

$$y = 8.1092E-004 * x + 8.1011E-005$$

R = 0.9999

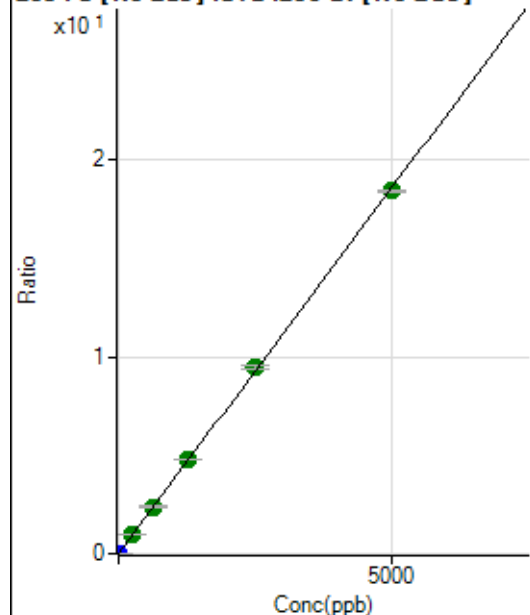
DL = 0.02438

BEC = 0.0999

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	1854.52	0.0004	P	3.3
2	☐	1.000	0.997	20638.89	0.0041	P	0.4
3	☐	250.000	253.624	4690639.34	0.9425	A	1.5
4	☐	625.000	644.122	11850178.99	2.3932	A	2.2
5	☐	1250.000	1292.989	22891300.35	4.8036	A	0.8
6	☐	2500.000	2546.990	44725491.07	9.4619	A	1.9
7	☐	5000.000	4963.186	87037821.34	18.4376	A	0.9
8	☐			86108.14	0.0203	P	40.0

$$y = 0.0037 * x + 3.7935E-004$$

R = 0.9999

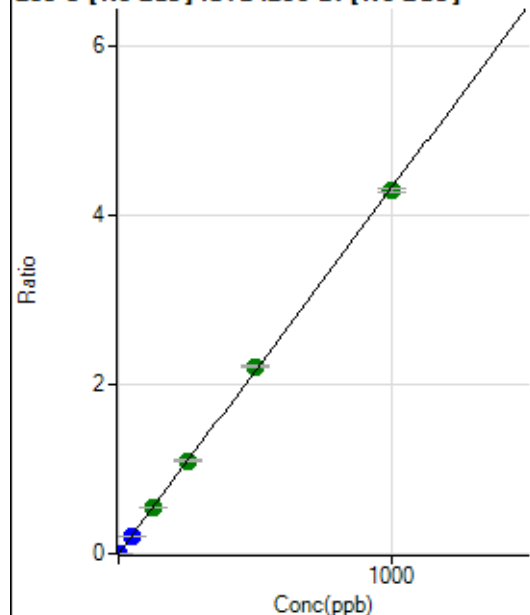
DL = 0.01008

BEC = 0.1021

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	800.04	0.0002	P	3.6
2	☐	1.000	0.896	20377.59	0.0040	P	1.8
3	☐	50.000	47.624	1023731.75	0.2057	P	1.9
4	☐	125.000	127.450	2724686.47	0.5502	A	2.1
5	☐	250.000	254.229	5229696.59	1.0974	A	0.9
6	☐	500.000	512.777	10463154.01	2.2133	A	0.6
7	☐	1000.000	992.367	20219363.03	4.2832	A	1.1
8	☐			11885.65	0.0028	P	71.1

$$y = 0.0043 * x + 1.6369E-004$$

$$R = 0.9999$$

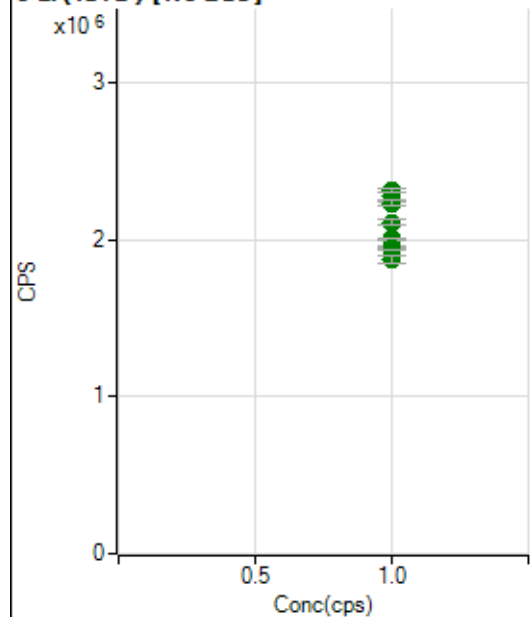
$$DL = 0.00413$$

$$BEC = 0.03793$$

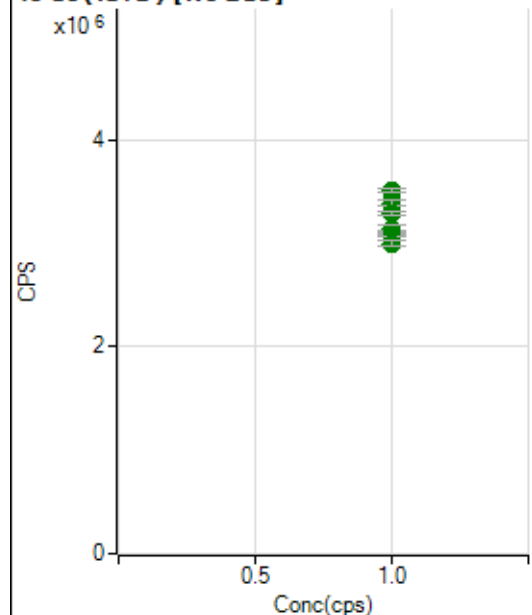
Weight: <None>

Min Conc: 0

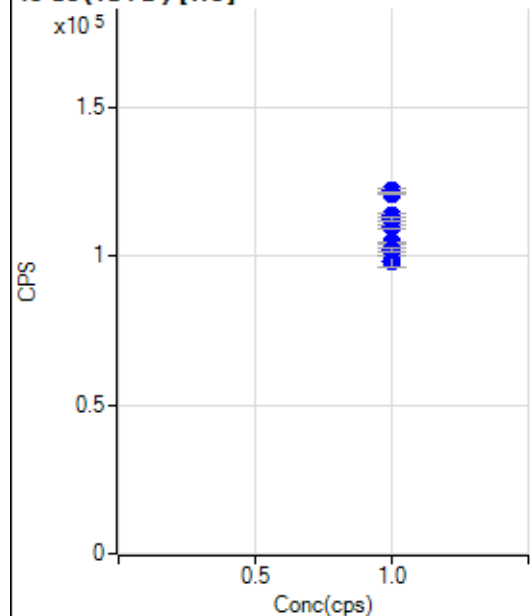
6 Li (ISTD) [No Gas]



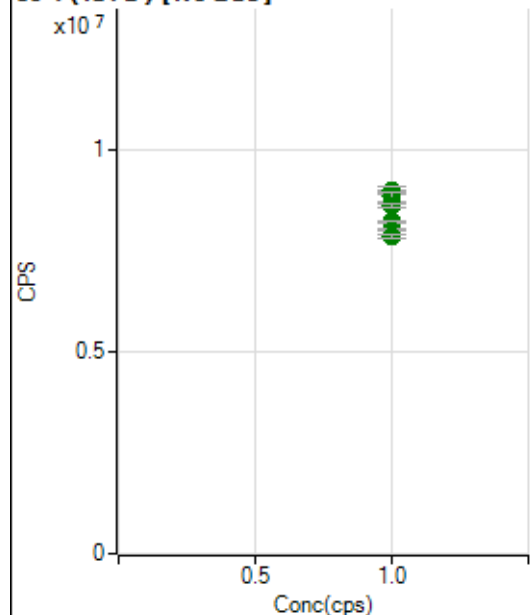
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2286881.12		A	3.7
2	☐	1.000		2313514.25		A	1.2
3	☐	1.000		2234056.53		A	1.8
4	☐	1.000		2114503.11		A	1.4
5	☐	1.000		2005779.53		A	1.0
6	☐	1.000		1953181.00		A	0.9
7	☐	1.000		1937033.46		A	0.1
8	☐	1.000		1870874.95		A	2.7

45 Sc (ISTD) [No Gas]

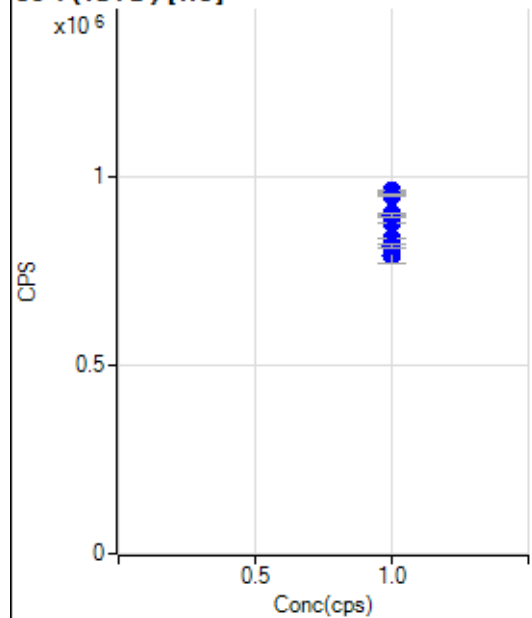
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3426359.50		A	4.3
2	☐	1.000		3503859.08		A	1.2
3	☐	1.000		3384283.38		A	1.7
4	☐	1.000		3284351.51		A	1.4
5	☐	1.000		3146703.77		A	1.8
6	☐	1.000		3091673.70		A	1.0
7	☐	1.000		3063145.79		A	0.3
8	☐	1.000		2998894.92		A	2.3

45 Sc (ISTD) [He]

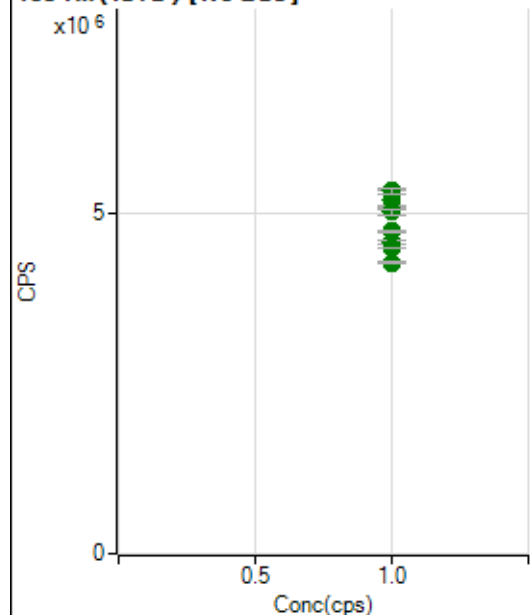
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		121835.62		P	1.0
2	☐	1.000		121017.71		P	0.8
3	☐	1.000		113679.02		P	0.7
4	☐	1.000		109601.98		P	1.1
5	☐	1.000		104326.01		P	0.4
6	☐	1.000		98363.07		P	3.9
7	☐	1.000		102049.36		P	1.0
8	☐	1.000		112152.27		P	1.3

89 Y (ISTD) [No Gas]

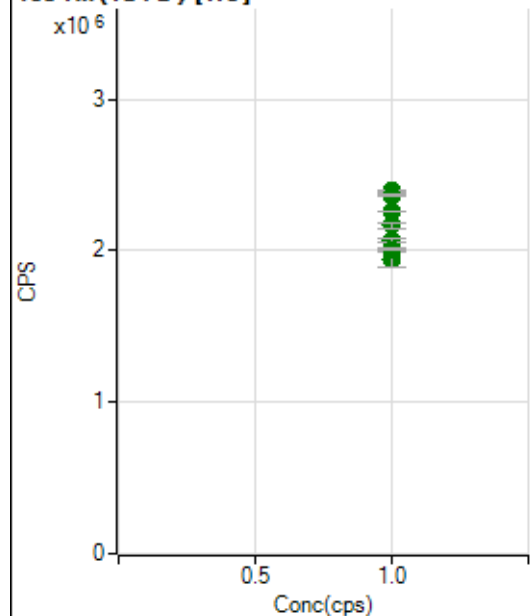
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8846680.01		A	4.0
2	☐	1.000		8984796.53		A	2.2
3	☐	1.000		8835748.06		A	2.3
4	☐	1.000		8621196.82		A	1.1
5	☐	1.000		8228721.69		A	0.6
6	☐	1.000		8006950.23		A	0.6
7	☐	1.000		8021083.63		A	0.7
8	☐	1.000		7853433.70		A	1.6

89 Y (ISTD) [He]

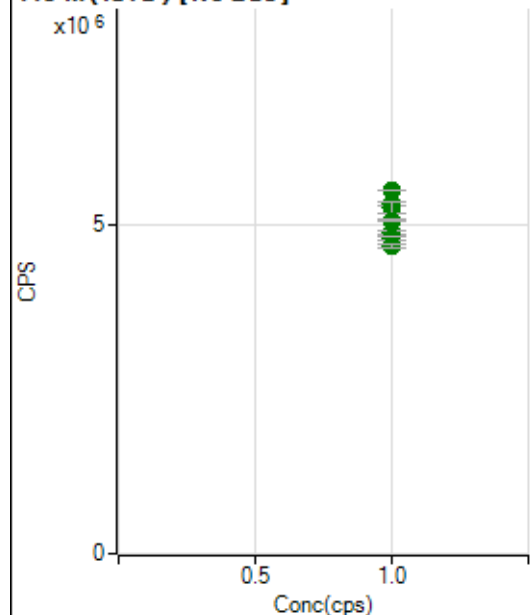
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		960660.99		P	0.5
2	☐	1.000		949134.86		P	0.6
3	☐	1.000		900534.94		P	0.6
4	☐	1.000		874472.97		P	0.2
5	☐	1.000		835041.80		P	0.6
6	☐	1.000		787327.17		P	5.1
7	☐	1.000		814673.81		P	1.1
8	☐	1.000		896678.37		P	1.2

103 Rh (ISTD) [No Gas]

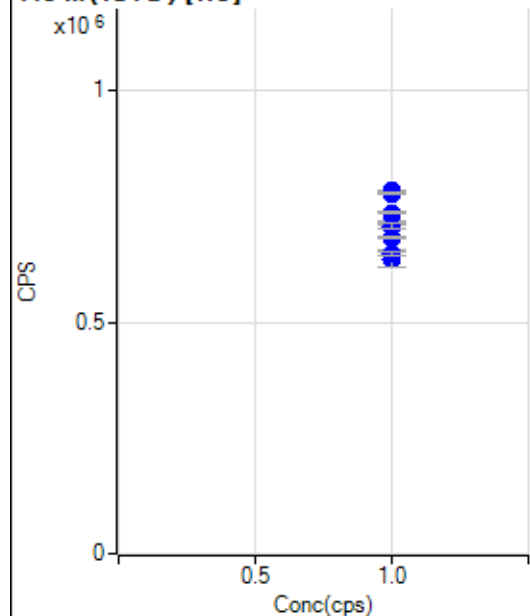
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5220095.34		A	5.4
2	☐	1.000		5339634.30		A	1.7
3	☐	1.000		5110589.96		A	0.4
4	☐	1.000		5026764.99		A	1.6
5	☐	1.000		4741348.75		A	0.4
6	☐	1.000		4584068.23		A	0.8
7	☐	1.000		4499999.93		A	0.5
8	☐	1.000		4282240.32		A	0.6

103 Rh (ISTD) [He]

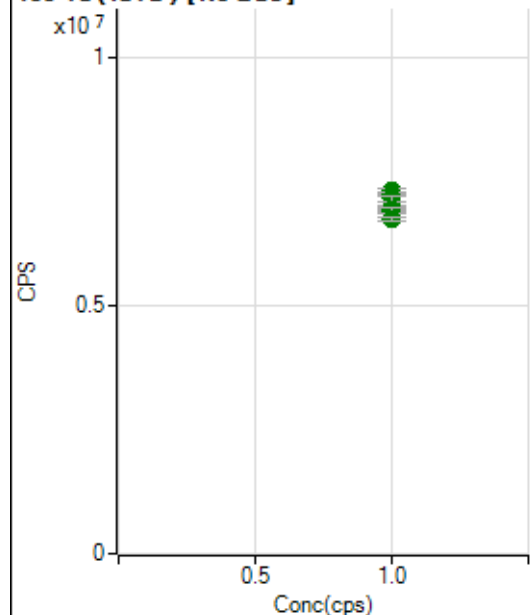
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2394558.73		A	0.3
2	☐	1.000		2363940.52		A	0.3
3	☐	1.000		2258381.11		A	0.2
4	☐	1.000		2167377.12		A	1.6
5	☐	1.000		2069023.56		A	0.8
6	☐	1.000		1942905.75		A	4.9
7	☐	1.000		2006628.53		A	1.1
8	☐	1.000		2009561.39		A	1.0

115 In (ISTD) [No Gas]

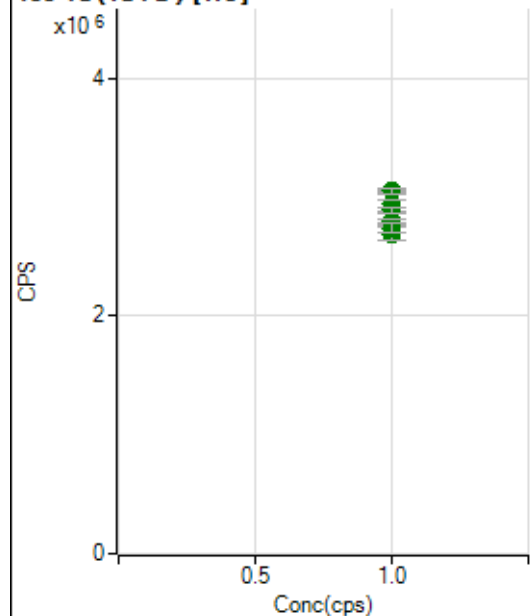
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5247054.56		A	3.7
2	☐	1.000		5502092.90		A	0.2
3	☐	1.000		5316232.87		A	1.0
4	☐	1.000		5247962.94		A	3.2
5	☐	1.000		5053087.74		A	0.9
6	☐	1.000		4880074.29		A	1.1
7	☐	1.000		4790146.70		A	1.0
8	☐	1.000		4667822.15		A	1.1

115 In (ISTD) [He]

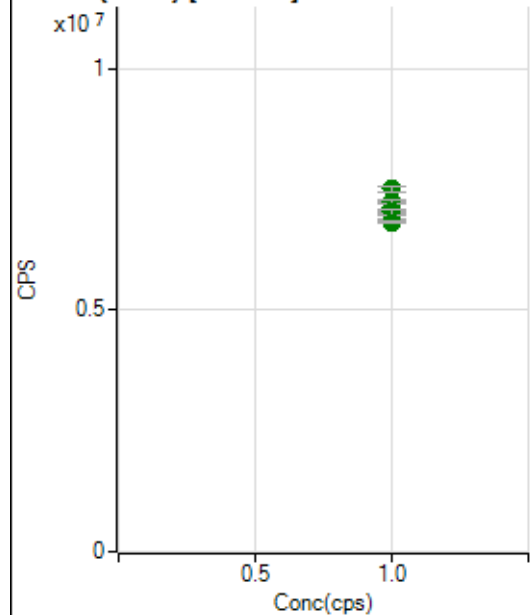
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		784151.67		P	0.4
2	☐	1.000		778800.02		P	0.3
3	☐	1.000		737097.16		P	0.4
4	☐	1.000		714672.13		P	0.9
5	☐	1.000		683383.44		P	0.8
6	☐	1.000		637835.77		P	5.9
7	☐	1.000		648042.16		P	0.8
8	☐	1.000		708129.59		P	1.4

159 Tb (ISTD) [No Gas]

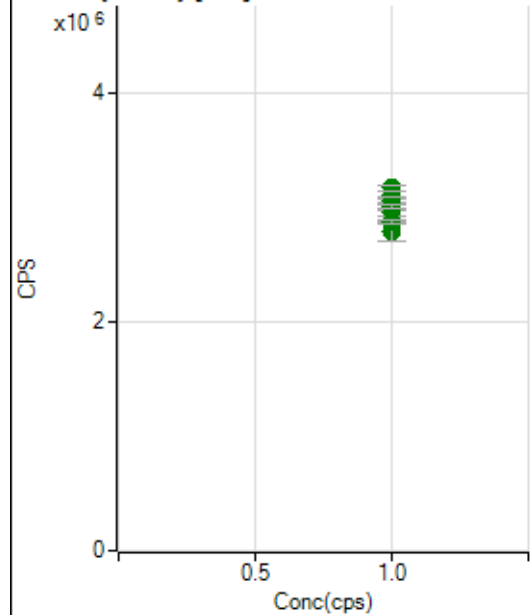
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7093088.51		A	5.4
2	☐	1.000		7314909.06		A	1.3
3	☐	1.000		7243213.23		A	1.3
4	☐	1.000		7163514.96		A	1.7
5	☐	1.000		6946838.09		A	2.5
6	☐	1.000		6899216.22		A	1.0
7	☐	1.000		6921440.66		A	1.5
8	☐	1.000		6746897.33		A	1.6

159 Tb (ISTD) [He]

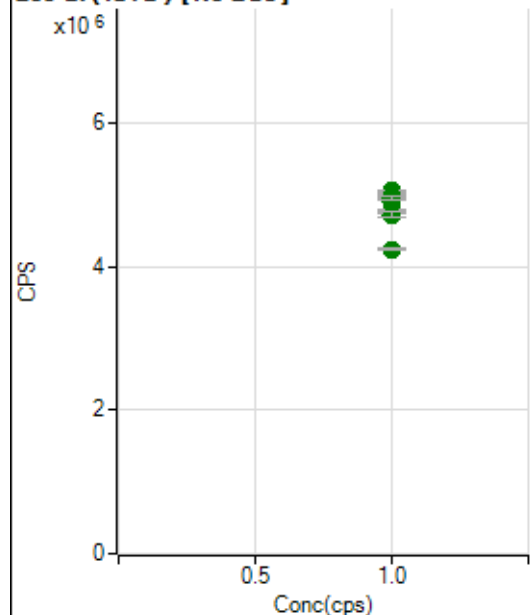
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3048909.05		A	0.7
2	☐	1.000		3049243.67		A	1.6
3	☐	1.000		2941942.04		A	1.7
4	☐	1.000		2889860.69		A	0.9
5	☐	1.000		2793611.73		A	1.7
6	☐	1.000		2686997.44		A	4.4
7	☐	1.000		2739121.47		A	2.5
8	☐	1.000		2885480.96		A	1.5

165 Ho (ISTD) [No Gas]

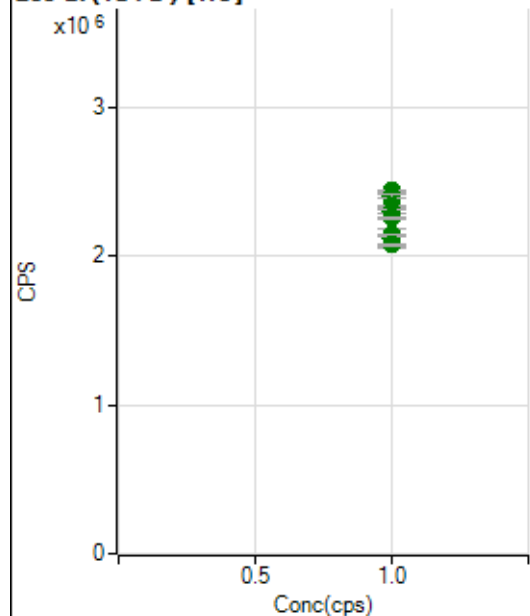
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7137274.97		A	4.2
2	☐	1.000		7510896.14		A	1.4
3	☐	1.000		7218783.71		A	0.5
4	☐	1.000		7249210.17		A	0.7
5	☐	1.000		6968147.81		A	2.2
6	☐	1.000		7009079.69		A	0.6
7	☐	1.000		7030041.49		A	1.5
8	☐	1.000		6811032.05		A	0.5

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3173231.48		A	1.3
2	☐	1.000		3109855.40		A	2.0
3	☐	1.000		3062715.82		A	2.3
4	☐	1.000		3012411.55		A	1.6
5	☐	1.000		2953468.64		A	1.8
6	☐	1.000		2788412.50		A	5.9
7	☐	1.000		2880265.58		A	0.9
8	☐	1.000		3010188.74		A	1.1

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4893299.41		A	5.0
2	☐	1.000		5053786.83		A	0.5
3	☐	1.000		4977263.02		A	1.3
4	☐	1.000		4952369.75		A	1.4
5	☐	1.000		4765614.48		A	1.0
6	☐	1.000		4727580.69		A	1.2
7	☐	1.000		4721157.05		A	1.7
8	☐	1.000		4243597.44		A	0.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2435840.88		A	0.9
2	☐	1.000		2404705.04		A	1.3
3	☐	1.000		2334205.78		A	0.6
4	☐	1.000		2297472.73		A	1.6
5	☐	1.000		2253511.56		A	1.0
6	☐	1.000		2120436.17		A	6.0
7	☐	1.000		2139694.62		A	0.8
8	☐	1.000		2076076.22		A	0.6

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8020724 MS.b

Acq. Date-Time 2024-02-07 10:38:11

Report Comment ---

Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		6742	67420.82			1.168	5.000
24		65267	652673.02			1.536	5.000
25		8679	86785.50			0.831	5.000
26		10205	102045.18			0.430	5.000
59		50107	501071.86			0.629	5.000
113		5705	57048.43			0.604	5.000
115		71473	714734.43			0.502	5.000
206		19619	196193.58			0.785	5.000
207		17795	177948.81			0.675	5.000
208		42411	424107.01			1.092	5.000
220		0	1.90			34.312	

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

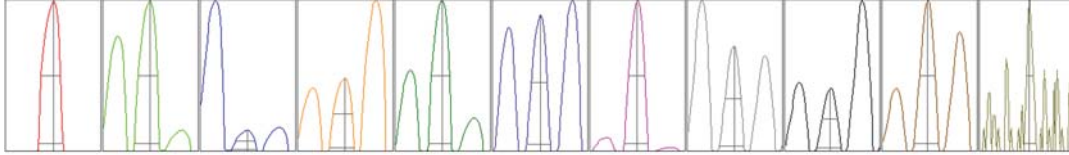
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6880	6733	6708	6704	6686
24	66219	66291	64794	65113	63919
25	8753	8727	8687	8567	8658
26	10244	10222	10233	10135	10190
59	50497	50383	49909	49975	49772
113	5759	5688	5675	5683	5718
115	72010	71441	71613	71170	71135
206	19581	19513	19581	19531	19890
207	17770	17654	17920	17713	17917
208	42423	41885	42428	42180	43137

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	12021.61	9.05	8.90 - 9.10	
24	112933.97	24.00	23.90 - 24.10	
25	15291.54	25.00	24.90 - 25.10	
26	17743.01	26.00	25.90 - 26.10	
59	92698.01	59.00	58.90 - 59.10	
113	11703.79	113.05	112.90 - 113.10	
115	145420.65	115.00	114.90 - 115.10	
206	39412.46	206.00	205.90 - 206.10	
207	35978.51	206.95	206.90 - 207.10	
208	86575.55	207.95	207.90 - 208.10	
220	0.65	220.10	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.778	0.900	
24	0.61	0.786	0.900	
25	0.60	0.785	0.900	
26	0.61	0.785	0.900	
59	0.57	0.736	0.900	
113	0.49	0.756	0.900	
115	0.51	0.751	0.900	
206	0.50	0.775	0.900	
207	0.49	0.775	0.900	
208	0.48	0.780	0.900	
220	0.23	0.384		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.85 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	-6.0 V	Omega Lens	10.8 V	Deflect	14.0 V
Extract 2	-220.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	140 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
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EM

Discriminator	4.7 mV	Analog HV	2304 V	Pulse HV	1690 V
---------------	--------	-----------	--------	----------	--------

[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11271	112714.41			1.580	
89		8236	82361.75			0.648	
205		13671	136712.39			1.421	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11507	11288	11370	11109	11083
89	8331	8210	8207	8217	8216
205	13993	13555	13701	13608	13500

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.85 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	-6.0 V	Omega Lens	10.8 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-220.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	1.4 mm	Torch V	-0.8 mm
---------	--------	---------	---------

EM

Discriminator	4.7 mV	Analog HV	2304 V	Pulse HV	1690 V
---------------	--------	-----------	--------	----------	--------