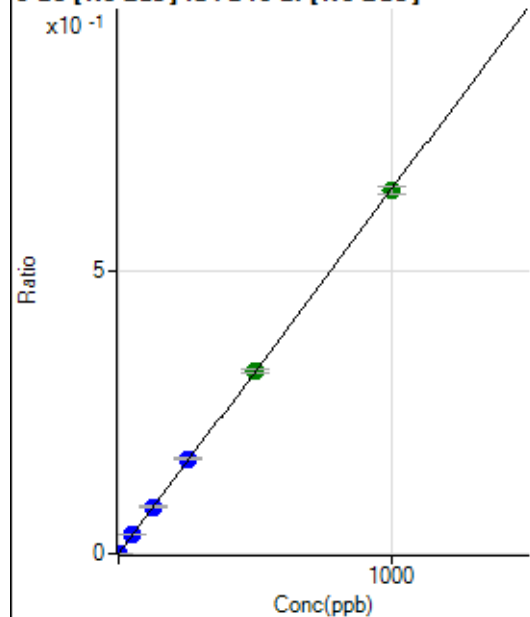


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8021623 MS.b\
Analysis File: P8021623 MS.batch.bin
DA Date-Time: 2023-02-16 15:47:53
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-16 13:54:12
2	006CALS.d	S02	2023-02-16 14:00:32
3	007CALS.d	S03	2023-02-16 14:03:41
4	008CALS.d	S04	2023-02-16 14:06:50
5	009CALS.d	S05	2023-02-16 14:09:56
6	010CALS.d	S06	2023-02-16 14:13:05
7	011CALS.d	S07	2023-02-16 14:16:11
8	012CALS.d	S08	2023-02-16 14:19:20

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.00	0.0000	P	22.4
2	☐	1.000	1.104	3001.61	0.0007	P	0.8
3	☐	50.000	52.939	142991.03	0.0342	P	1.0
4	☐	125.000	128.779	354529.49	0.0832	P	1.8
5	☐	250.000	261.063	702576.86	0.1686	P	1.2
6	☐	500.000	501.376	1364874.13	0.3238	A	1.6
7	☐	1000.000	995.927	2645480.41	0.6432	A	2.2
8	☐			675.77	0.0002	P	4.5

$$y = 6.4582\text{E-}004 * x + 9.4638\text{E-}006$$

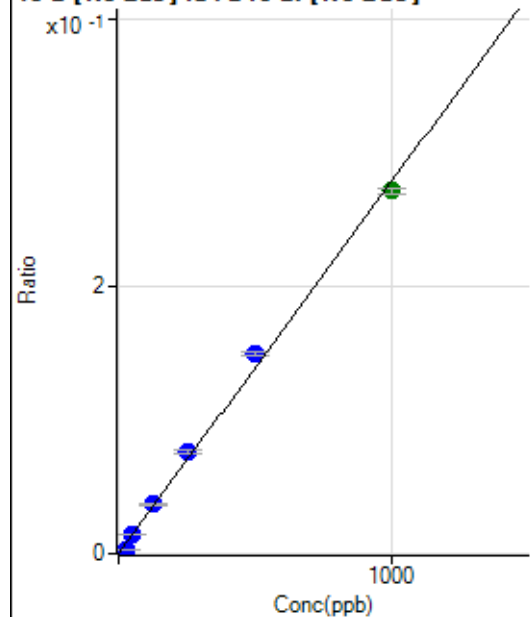
$$R = 0.9999$$

$$DL = 0.009841$$

$$BEC = 0.01465$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	274.62	0.0001	P	3.8
2	☐	25.000	8.542	10131.53	0.0024	P	1.5
3	☐	50.000	52.933	61776.93	0.0148	P	3.6
4	☐	125.000	131.863	156455.48	0.0367	P	3.5
5	☐	250.000	273.754	317291.57	0.0761	P	3.0
6	☐	500.000	536.815	629147.26	0.1493	P	2.0
7	☐	1000.000	975.061	1115453.16	0.2711	A	1.7
8	☐			65236.11	0.0170	P	6.9

$$y = 2.7792\text{E-}004 * x + 6.4967\text{E-}005$$

$$R = 0.9983$$

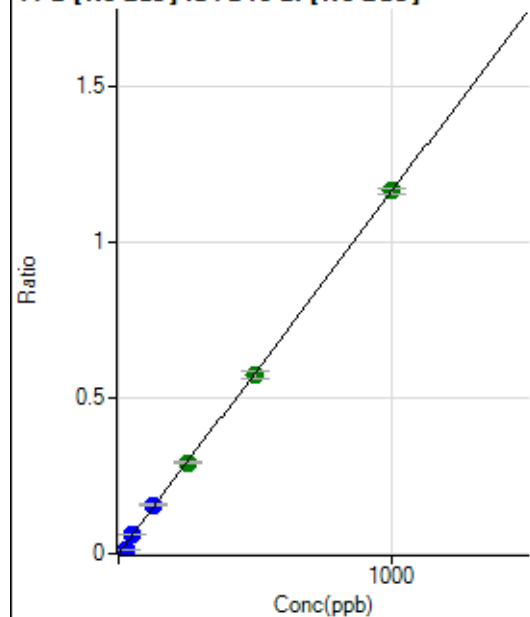
$$DL = 0.02639$$

$$BEC = 0.2338$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1197.82	0.0003	P	6.9
2	☐	25.000	8.558	42421.27	0.0102	P	3.0
3	☐	50.000	53.526	260819.58	0.0624	P	3.5
4	☐	125.000	134.551	666516.54	0.1564	P	3.1
5	☐	250.000	250.399	1211784.88	0.2908	A	1.6
6	☐	500.000	494.346	2418542.59	0.5738	A	3.7
7	☐	1000.000	1001.768	4784123.81	1.1625	A	1.6
8	☐			274636.96	0.0714	P	8.3

$$y = 0.0012 * x + 2.8364E-004$$

$$R = 0.9997$$

$$DL = 0.05072$$

$$BEC = 0.2445$$

Weight: <None>

Min Conc: 0

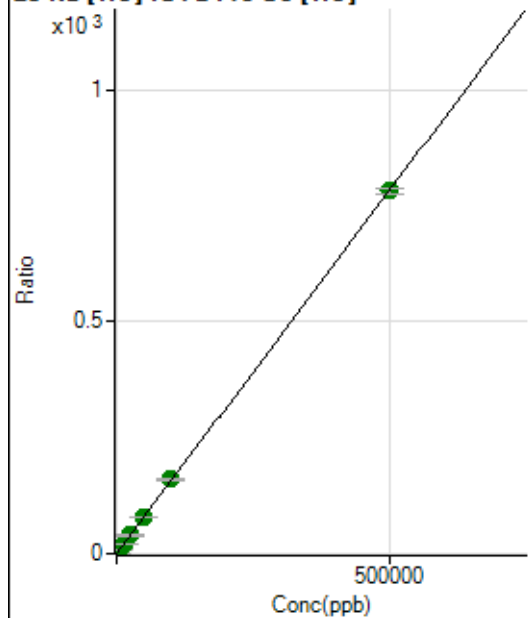
12 C [No Gas] No available calibration points



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4555182.52		A	0.7
2	☐			4649377.49		A	0.6
3	☐			4937200.76		A	1.5
4	☐			5049917.47		A	1.1
5	☐			5312359.10		A	0.7
6	☐			5809753.99		A	1.3
7	☐			6172350.23		A	2.7
8	☐			5486492.35		A	1.5

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			56673.76		P	1.8
2	☐			57585.23		P	0.8
3	☐			62268.54		P	0.8
4	☐			64287.96		P	1.1
5	☐			67948.84		P	1.0
6	☐			74497.30		P	1.8
7	☐			79364.09		P	0.9
8	☐			75720.29		P	1.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	9842.44	0.0580	P	3.9
2	☐	500.000	495.582	142165.60	0.8344	P	4.4
3	☐	5000.000	5158.350	1413663.05	8.1391	A	2.2
4	☐	12500.000	12985.701	3549832.15	20.4016	A	1.9
5	☐	25000.000	25222.322	6933435.31	39.5716	A	2.3
6	☐	50000.000	50964.317	13823306.73	79.8992	A	0.9
7	☐	100000.00	102907.50	27696624.58	161.2739	A	2.3
8	☐	500000.00	499297.23	132096469.6	782.2620	A	1.5

$$y = 0.0016 * x + 0.0580$$

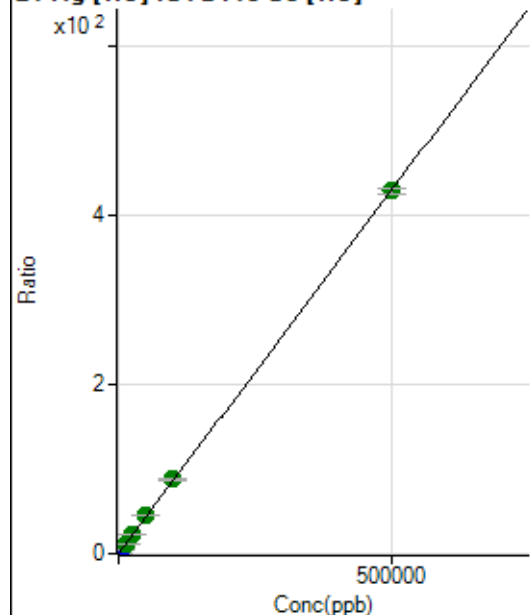
$$R = 1.0000$$

$$DL = 4.339$$

$$BEC = 37.04$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	858.38	0.0051	P	13.0
2	☐	500.000	506.625	75049.17	0.4403	P	2.6
3	☐	5000.000	5246.059	783692.96	4.5124	P	1.5
4	☐	12500.000	13495.447	2018295.31	11.6001	A	1.4
5	☐	25000.000	25865.281	3894522.27	22.2280	A	1.2
6	☐	50000.000	51820.493	7703319.01	44.5282	A	0.4
7	☐	100000.00	103009.24	15199695.83	88.5085	A	2.8
8	☐	500000.00	499145.48	72417153.70	428.8607	A	1.7

$$y = 8.5918\text{E-}004 * x + 0.0051$$

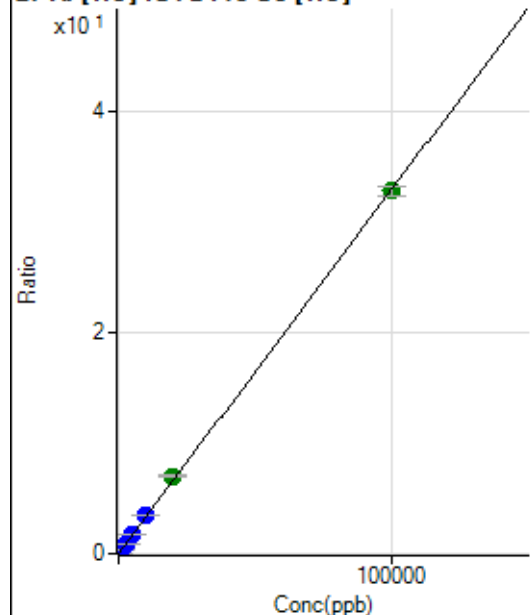
R = 1.0000

DL = 2.293

BEC = 5.887

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	64.99	0.0004	P	5.8
2	☐	20.000	20.473	1212.82	0.0071	P	4.0
3	☐	1000.000	1033.939	59125.08	0.3404	P	1.4
4	☐	2500.000	2636.375	150922.19	0.8674	P	0.5
5	☐	5000.000	5141.397	296332.06	1.6913	P	1.3
6	☐	10000.000	10350.358	588981.69	3.4044	P	0.8
7	☐	20000.000	21308.657	1203564.01	7.0083	A	2.3
8	☐	100000.00	99692.414	5536153.61	32.7868	A	2.5

$$y = 3.2888\text{E-}004 * x + 3.8285\text{E-}004$$

R = 0.9999

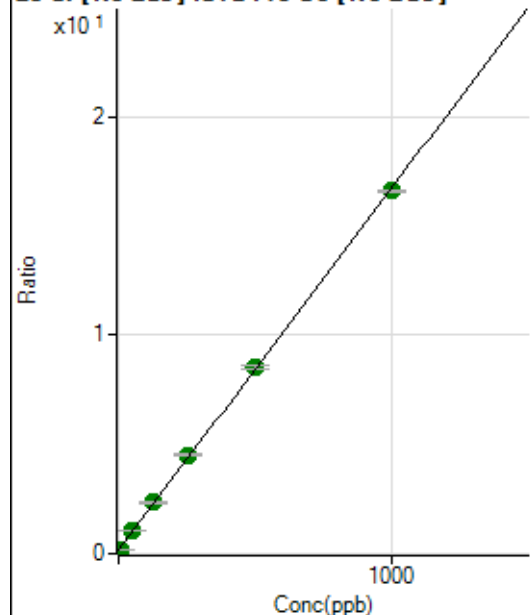
DL = 0.2026

BEC = 1.164

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	880711.06	0.1688	P	2.2
2	☐	10.000	0.234	909608.97	0.1727	A	1.6
3	☐	50.000	53.156	5446681.03	1.0479	A	0.8
4	☐	125.000	131.323	12355816.16	2.3406	A	1.9
5	☐	250.000	262.884	23895985.08	4.5164	A	0.8
6	☐	500.000	506.270	45968009.71	8.5416	A	1.3
7	☐	1000.000	992.793	88754684.62	16.5878	A	0.7
8	☐			1192733.26	0.2294	A	2.8

$$y = 0.0165 * x + 0.1688$$

$$R = 0.9998$$

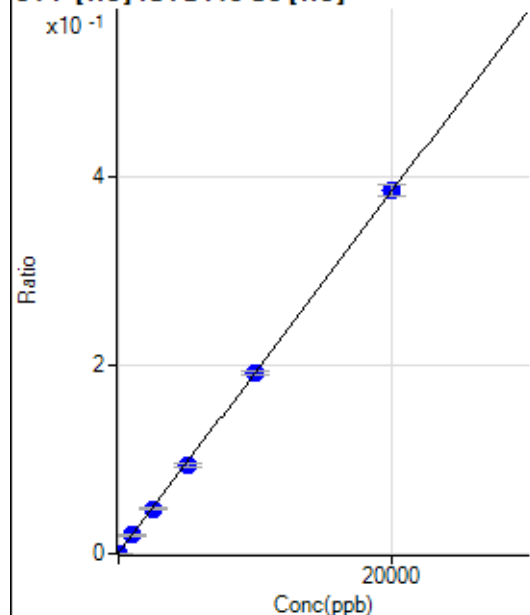
$$DL = 0.6663$$

$$BEC = 10.21$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-6.627	97.23	0.0006	P	32.0
2	☐	0.000	6.627	141.67	0.0008	P	45.8
3	☐	1000.000	996.305	3431.06	0.0198	P	4.3
4	☐	2500.000	2443.821	8252.58	0.0474	P	3.7
5	☐	5000.000	4856.348	16395.81	0.0936	P	2.6
6	☐	10000.000	9993.188	33188.66	0.1918	P	2.0
7	☐	20000.000	20046.526	65961.84	0.3841	P	3.1
8	☐			136.11	0.0008	P	19.0

$$y = 1.9126E-005 * x + 6.9936E-004$$

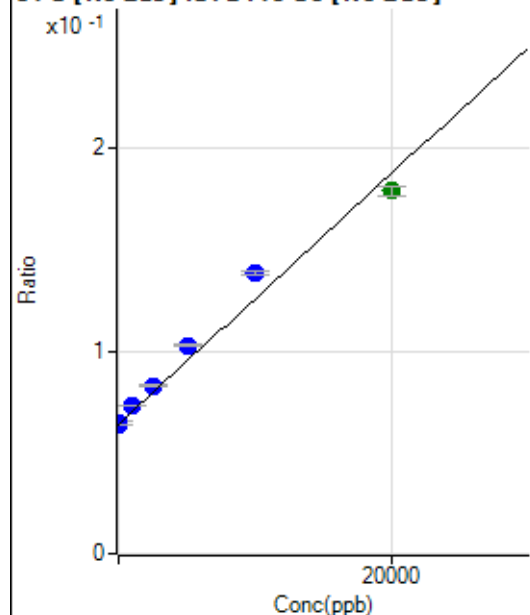
$$R = 1.0000$$

$$DL = 44.06$$

$$BEC = 36.57$$

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	55.810	335928.67	0.0644	P	2.3
2	☐	0.000	-55.810	335529.67	0.0637	P	1.3
3	☐	1000.000	1465.025	380088.23	0.0731	P	0.9
4	☐	2500.000	3049.213	437908.39	0.0830	P	1.4
5	☐	5000.000	6256.989	544078.21	0.1028	P	1.1
6	☐	10000.000	12035.526	746347.32	0.1387	P	1.1
7	☐	20000.000	18576.087	958961.86	0.1792	A	2.7
8	☐			294150.65	0.0566	P	2.8

$$y = 6.2017\text{E-}006 * x + 0.0640$$

$$R = 0.9893$$

$$DL = 556.6$$

$$BEC = 1.033\text{E}+04$$

Weight: <None>

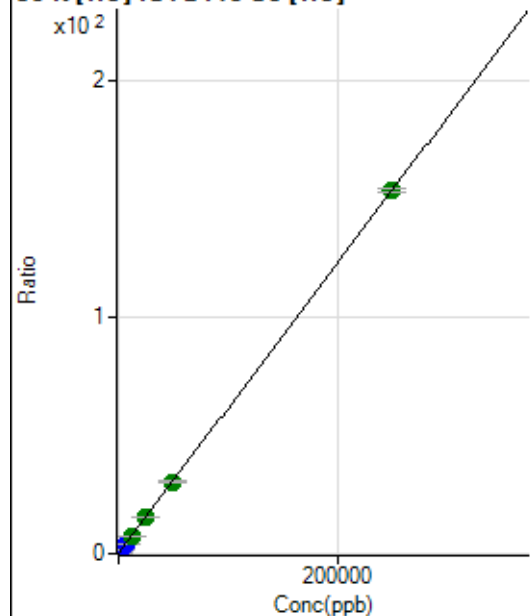
Min Conc: 0

35 Cl [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			114520.27		P	1.7
2	☐			121885.85		P	1.2
3	☐			143554.66		P	0.7
4	☐			146151.49		P	1.2
5	☐			137363.68		P	1.6
6	☐			132687.97		P	0.5
7	☐			138399.09		P	0.5
8	☐			156253.66		P	0.8

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			850.05		P	2.0
2	☐			844.49		P	12.3
3	☐			963.95		P	5.8
4	☐			1075.07		P	4.0
5	☐			997.28		P	2.1
6	☐			969.50		P	7.8
7	☐			941.72		P	9.9
8	☐			1066.74		P	16.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20186.81	0.1190	P	1.7
2	☐	500.000	477.208	70087.36	0.4113	P	3.5
3	☐	2500.000	2459.714	282346.02	1.6257	P	1.0
4	☐	6250.000	6172.308	678496.67	3.8998	P	0.5
5	☐	12500.000	12292.577	1340148.63	7.6487	A	1.5
6	☐	25000.000	24766.412	2645221.89	15.2894	A	1.0
7	☐	50000.000	49429.143	5220309.36	30.3963	A	1.1
8	☐	250000.00	250150.29	25894535.13	153.3458	A	1.1

$$y = 6.1254E-004 * x + 0.1190$$

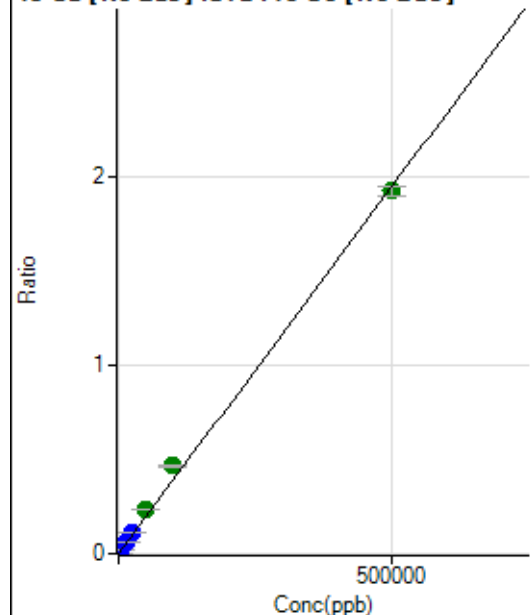
$$R = 1.0000$$

$$DL = 9.76$$

$$BEC = 194.3$$

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	116.24	0.0000	P	10.7
2	☐	500.000	501.431	10395.38	0.0020	P	2.4
3	☐	5000.000	5937.805	120212.81	0.0231	P	1.4
4	☐	12500.000	14541.569	298855.49	0.0566	P	0.8
5	☐	25000.000	29630.982	610138.02	0.1153	P	0.8
6	☐	50000.000	60140.334	1259799.63	0.2340	A	2.0
7	☐	100000.00	119550.54	2489229.32	0.4652	A	1.0
8	☐	500000.00	494783.89	10009576.01	1.9254	A	2.5

$$y = 3.8913E-006 * x + 2.2284E-005$$

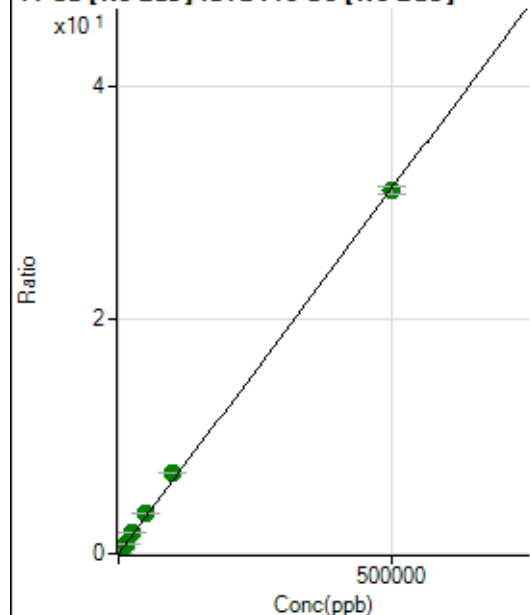
$$R = 0.9991$$

$$DL = 1.843$$

$$BEC = 5.727$$

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	7997.82	0.0015	P	1.0
2	☐	500.000	508.044	174937.15	0.0332	P	1.4
3	☐	5000.000	5781.329	1881549.07	0.3620	A	0.7
4	☐	12500.000	13865.098	4572527.56	0.8660	A	1.5
5	☐	25000.000	28313.058	9347686.24	1.7668	A	0.2
6	☐	50000.000	54679.431	18358318.36	3.4107	A	1.1
7	☐	100000.00	111124.41	37080066.71	6.9299	A	0.9
8	☐	500000.00	497099.57	161143978.9	30.9948	A	2.3

$$y = 6.2348E-005 * x + 0.0015$$

$$R = 0.9997$$

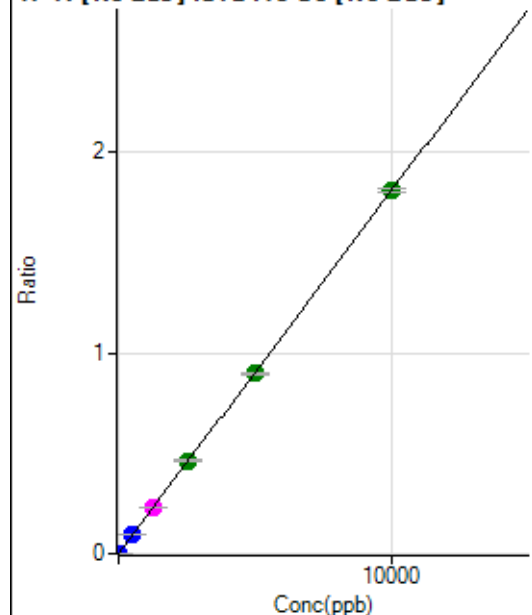
$$DL = 0.7183$$

$$BEC = 24.58$$

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	172.23	0.0000	P	19.8
2	☐	5.000	5.176	5106.62	0.0010	P	4.0
3	☐	500.000	525.666	494345.16	0.0951	P	1.7
4	☐	1250.000	1266.512	1209454.32	0.2291	M	1.5
5	☐	2500.000	2557.186	2446859.30	0.4626	A	2.1
6	☐	5000.000	4975.086	4843055.53	0.8999	A	1.1
7	☐	10000.000	9994.813	9673260.81	1.8078	A	1.2
8	☐			2189.12	0.0004	P	9.2

$$y = 1.8087E-004 * x + 3.3062E-005$$

$$R = 1.0000$$

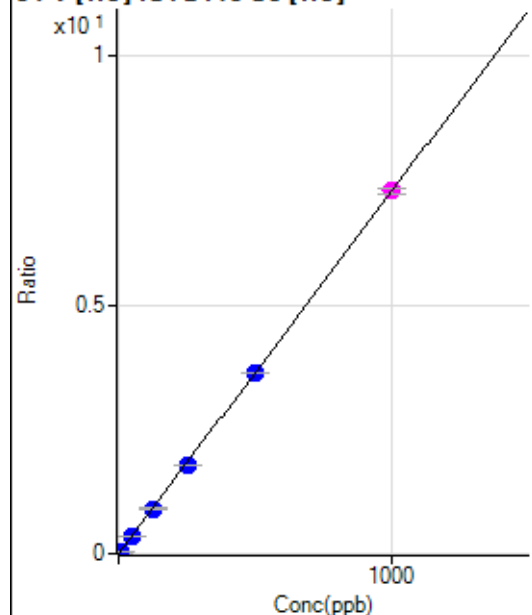
$$DL = 0.1087$$

$$BEC = 0.1828$$

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	10.00	0.0001	P	1.2
2	☐	5.000	4.930	6126.92	0.0359	P	0.6
3	☐	50.000	49.352	62373.14	0.3591	P	1.8
4	☐	125.000	124.492	157618.54	0.9059	P	1.6
5	☐	250.000	244.862	312166.13	1.7817	P	1.0
6	☐	500.000	499.154	628348.16	3.6319	P	1.0
7	☐	1000.000	1001.804	1251849.19	7.2891	M	1.5
8	☐			401.12	0.0024	P	12.9

$$y = 0.0073 * x + 5.8941E-005$$

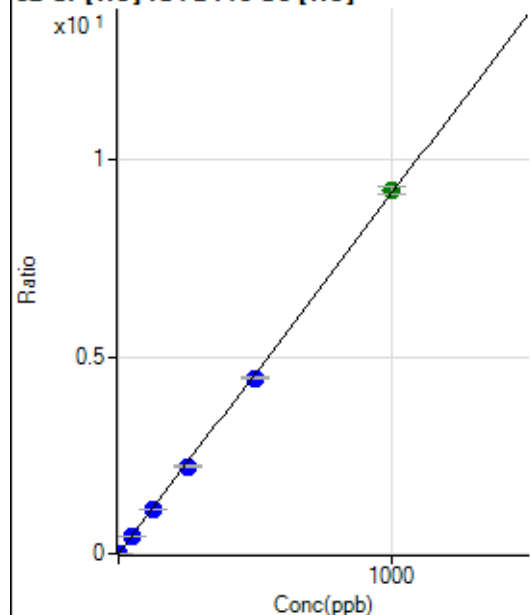
$$R = 1.0000$$

$$DL = 0.0002923$$

$$BEC = 0.008101$$

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	484.46	0.0029	P	4.7
2	☐	2.000	1.983	3571.60	0.0210	P	4.0
3	☐	50.000	49.057	78289.64	0.4508	P	1.1
4	☐	125.000	122.668	195367.13	1.1229	P	0.7
5	☐	250.000	242.094	387798.76	2.2133	P	2.0
6	☐	500.000	488.662	772389.92	4.4645	P	0.5
7	☐	1000.000	1007.984	1581061.56	9.2062	A	2.0
8	☐			14371.75	0.0851	P	1.8

$$y = 0.0091 * x + 0.0029$$

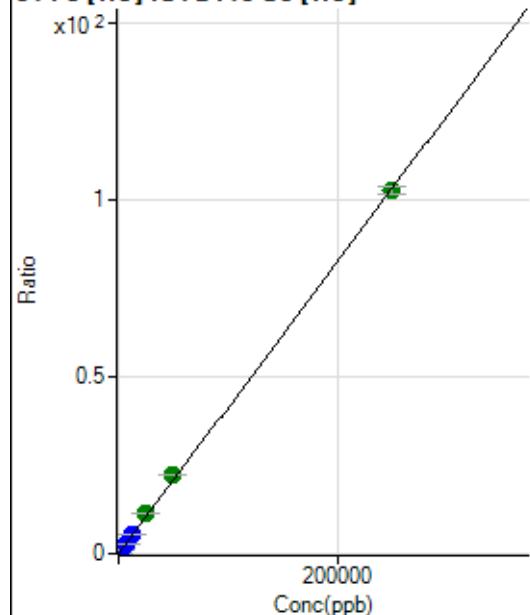
$$R = 0.9999$$

$$DL = 0.04371$$

$$BEC = 0.3127$$

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	627.80	0.0037	P	5.9
2	☐	50.000	51.575	4254.40	0.0250	P	5.7
3	☐	2500.000	2639.867	189763.35	1.0926	P	1.0
4	☐	6250.000	6623.700	476026.22	2.7359	P	1.1
5	☐	12500.000	12909.542	933648.31	5.3287	P	2.6
6	☐	25000.000	27360.774	1953353.57	11.2897	A	2.2
7	☐	50000.000	53933.325	3821231.74	22.2505	A	1.1
8	☐	250000.00	248946.03	17340555.94	102.6906	A	2.1

$$y = 4.1249E-004 * x + 0.0037$$

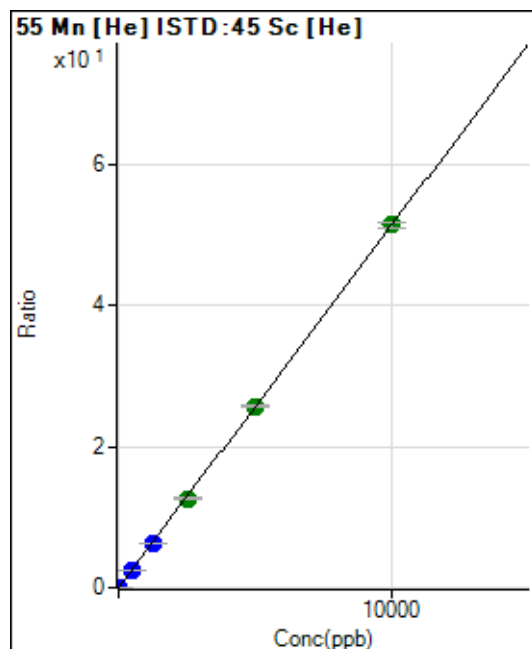
$$R = 0.9998$$

$$DL = 1.583$$

$$BEC = 8.974$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	54.45	0.0003	P	23.9
2	☐	1.000	0.959	893.37	0.0052	P	6.2
3	☐	500.000	484.910	432606.96	2.4909	P	0.5
4	☐	1250.000	1228.166	1097581.93	6.3084	P	0.5
5	☐	2500.000	2453.875	2208389.15	12.6039	A	2.5
6	☐	5000.000	5001.981	4444875.52	25.6914	A	1.2
7	☐	10000.000	10014.024	8833249.45	51.4341	A	1.8
8	☐			9185.26	0.0544	P	2.1

$$y = 0.0051 * x + 3.2034E-004$$

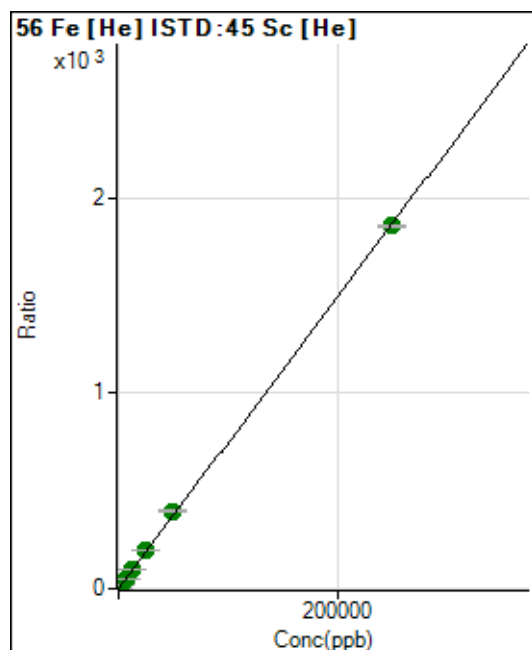
$$R = 1.0000$$

$$DL = 0.04463$$

$$BEC = 0.06237$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3065.20	0.0181	P	5.2
2	☐	50.000	51.024	67808.69	0.3980	P	4.1
3	☐	2500.000	2648.569	3427870.88	19.7379	A	1.5
4	☐	6250.000	6603.607	8557652.97	49.1850	A	0.0
5	☐	12500.000	13284.290	17333513.47	98.9257	A	2.1
6	☐	25000.000	26197.097	33747940.34	195.0675	A	0.6
7	☐	50000.000	53249.718	68095763.56	396.4866	A	2.4
8	☐	250000.00	249180.80	313301462.5	1,855.283	A	0.3

$$y = 0.0074 * x + 0.0181$$

$$R = 0.9999$$

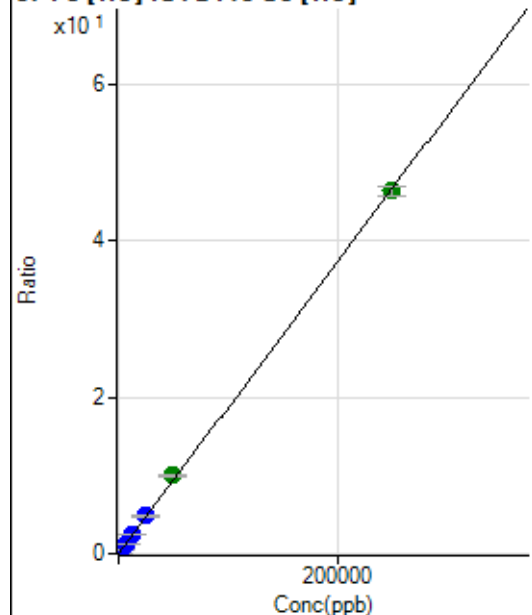
$$DL = 0.3759$$

$$BEC = 2.427$$

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	148.15	0.0009	P	7.5
2	☐	50.000	51.563	1783.48	0.0105	P	1.6
3	☐	2500.000	2613.177	84544.24	0.4868	P	1.1
4	☐	6250.000	6551.634	212103.04	1.2191	P	1.2
5	☐	12500.000	12860.611	419146.75	2.3922	P	1.8
6	☐	25000.000	25819.685	830765.41	4.8019	P	1.2
7	☐	50000.000	53871.268	1720526.18	10.0180	A	1.7
8	☐	250000.00	249117.07	7821964.82	46.3230	A	2.4

$$y = 1.8595E-004 * x + 8.7262E-004$$

$$R = 0.9999$$

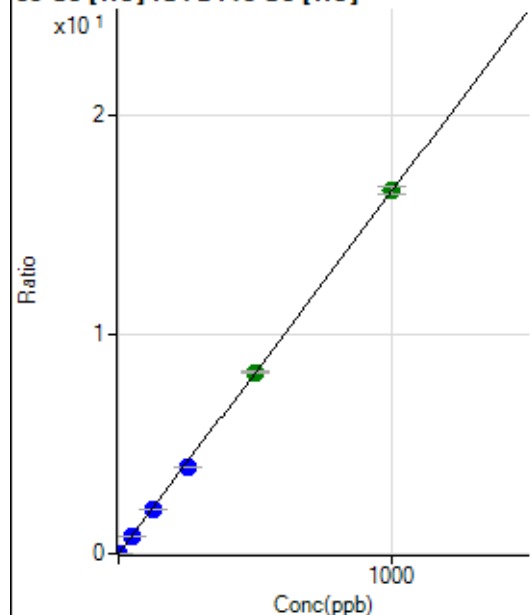
$$DL = 1.06$$

$$BEC = 4.693$$

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	81.11	0.0005	P	7.5
2	☐	1.000	0.984	2853.65	0.0167	P	5.7
3	☐	50.000	48.755	140117.83	0.8068	P	1.6
4	☐	125.000	122.018	351143.23	2.0183	P	1.2
5	☐	250.000	240.272	696280.00	3.9739	P	1.0
6	☐	500.000	501.789	1435797.36	8.2987	A	1.6
7	☐	1000.000	1001.973	2845745.17	16.5704	A	2.0
8	☐			2558.03	0.0151	P	2.0

$$y = 0.0165 * x + 4.7776E-004$$

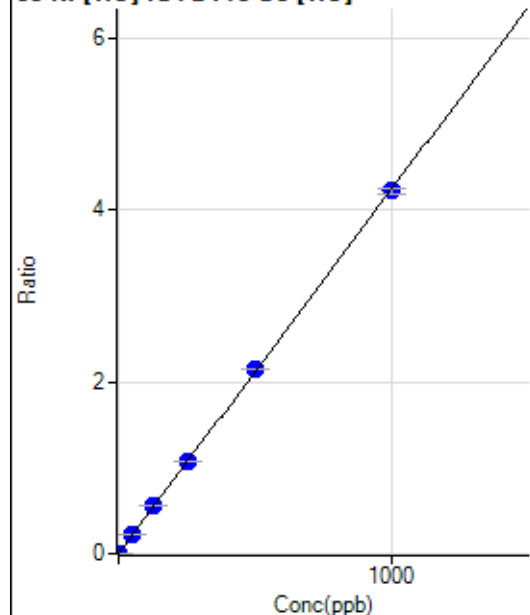
$$R = 0.9999$$

$$DL = 0.00649$$

$$BEC = 0.02889$$

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	38.89	0.0002	P	20.4
2	☐	1.000	1.006	764.47	0.0045	P	10.2
3	☐	50.000	51.576	37992.94	0.2188	P	1.2
4	☐	125.000	130.544	96275.72	0.5534	P	0.5
5	☐	250.000	251.395	186675.08	1.0654	P	0.5
6	☐	500.000	506.543	371364.23	2.1465	P	0.8
7	☐	1000.000	995.608	724499.48	4.2187	P	1.4
8	☐			2402.45	0.0142	P	6.1

$$y = 0.0042 * x + 2.2941E-004$$

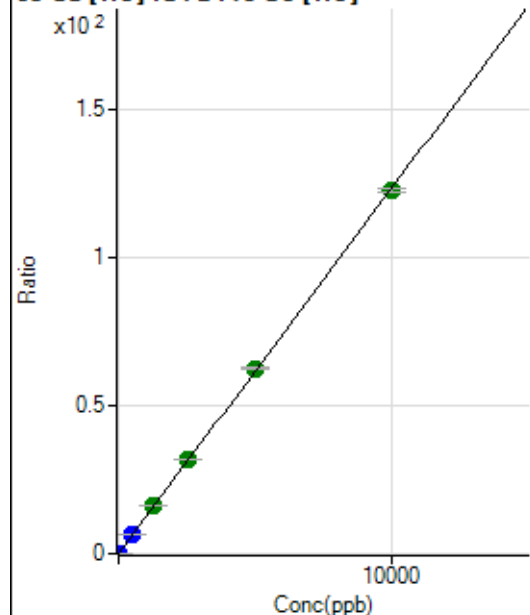
$$R = 1.0000$$

$$DL = 0.03316$$

$$BEC = 0.05414$$

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	492.23	0.0029	P	13.3
2	☐	2.000	2.049	4796.42	0.0282	P	4.7
3	☐	500.000	507.571	1086703.62	6.2568	P	1.2
4	☐	1250.000	1321.558	2833457.67	16.2860	A	0.9
5	☐	2500.000	2573.983	5557350.61	31.7174	A	1.5
6	☐	5000.000	5074.858	10818627.62	62.5311	A	1.5
7	☐	10000.000	9934.752	21021759.96	122.4107	A	1.1
8	☐			7633.25	0.0452	P	6.2

$$y = 0.0123 * x + 0.0029$$

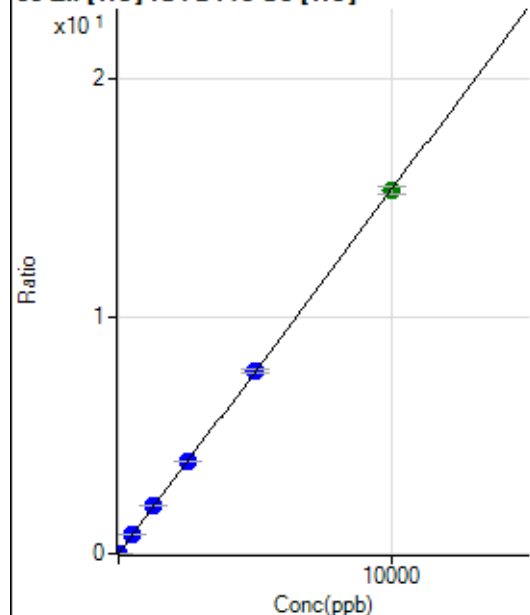
$$R = 0.9999$$

$$DL = 0.09376$$

$$BEC = 0.2357$$

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	192.22	0.0011	P	1.6
2	☐	2.000	2.355	807.81	0.0047	P	6.4
3	☐	500.000	520.015	138651.77	0.7983	P	0.8
4	☐	1250.000	1314.062	350693.38	2.0156	P	0.4
5	☐	2500.000	2539.247	682235.44	3.8938	P	1.5
6	☐	5000.000	5031.490	1334737.88	7.7144	P	1.9
7	☐	10000.000	9965.434	2623788.17	15.2782	A	2.1
8	☐			3075.92	0.0182	P	3.1

$$y = 0.0015 * x + 0.0011$$

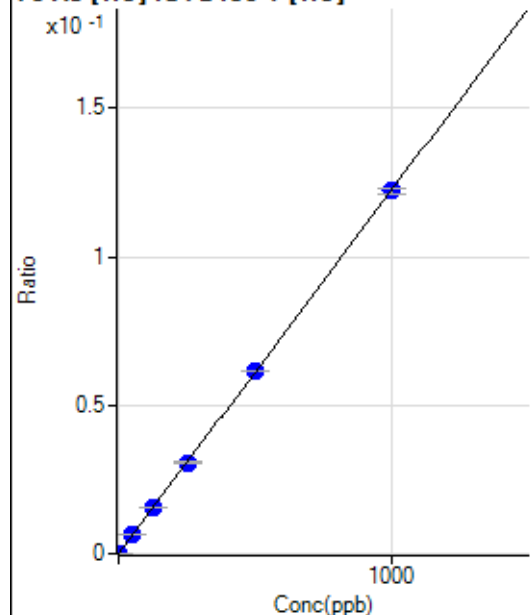
$$R = 1.0000$$

$$DL = 0.03614$$

$$BEC = 0.739$$

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	4.67	0.0000	P	46.1
2	☐	1.000	1.104	174.35	0.0001	P	2.7
3	☐	50.000	50.706	7912.02	0.0062	P	1.0
4	☐	125.000	128.520	19970.74	0.0157	P	0.6
5	☐	250.000	250.559	39151.20	0.0307	P	1.5
6	☐	500.000	502.236	78316.02	0.0615	P	0.7
7	☐	1000.000	998.267	154571.75	0.1222	P	1.7
8	☐			54.01	0.0000	P	10.9

$$y = 1.2236E-004 * x + 3.7547E-006$$

$$R = 1.0000$$

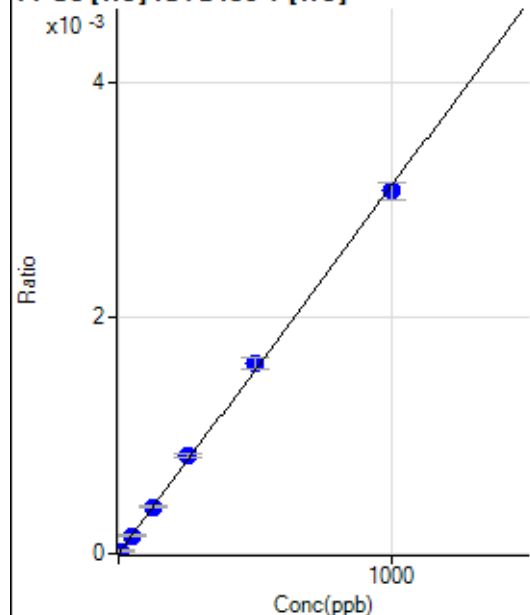
$$DL = 0.04246$$

$$BEC = 0.03068$$

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	0.00	0.0000	P	
2	☐	5.000	7.356	28.89	0.0000	P	56.2
3	☐	50.000	48.983	194.45	0.0002	P	14.8
4	☐	125.000	127.126	503.35	0.0004	P	4.1
5	☐	250.000	267.364	1064.50	0.0008	P	5.2
6	☐	500.000	517.391	2054.61	0.0016	P	6.5
7	☐	1000.000	986.737	3892.80	0.0031	P	5.1
8	☐			3.33	0.0000	P	99.7

$$y = 3.1182\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

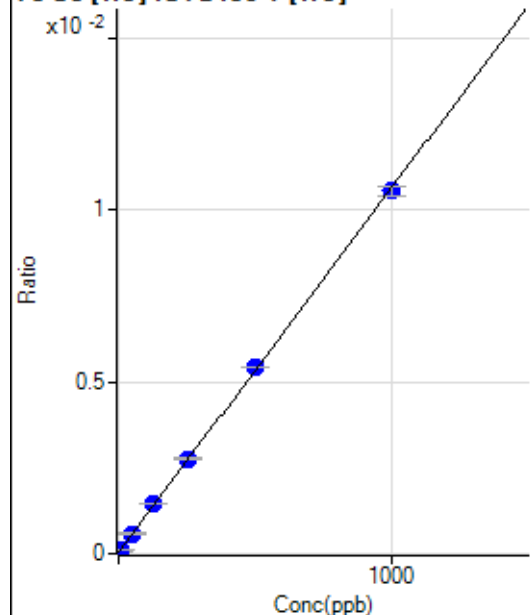
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	46.67	0.0000	P	4.3
2	☐	5.000	5.720	123.01	0.0001	P	11.0
3	☐	50.000	51.478	743.43	0.0006	P	4.2
4	☐	125.000	133.992	1851.31	0.0015	P	2.2
5	☐	250.000	256.624	3521.47	0.0028	P	1.3
6	☐	500.000	510.133	6938.74	0.0054	P	0.1
7	☐	1000.000	992.076	13355.32	0.0106	P	2.6
8	☐			65.68	0.0001	P	11.3

$$y = 1.0602\text{E-}005 * x + 3.7437\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.4556$$

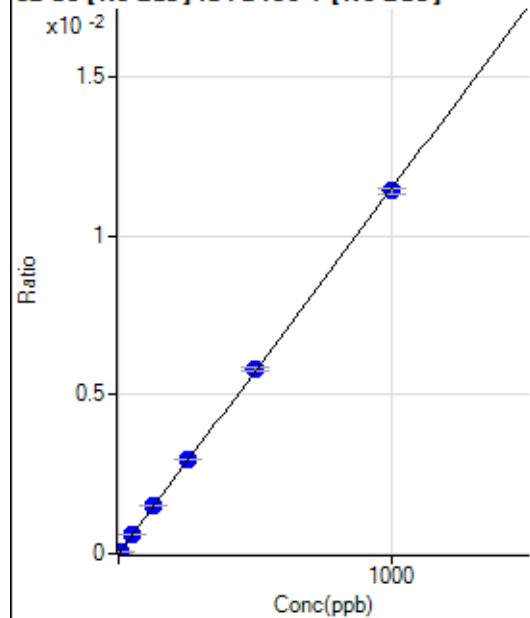
$$BEC = 3.531$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55300.45		P	3.4
2	☐			53936.82		P	1.8
3	☐			52935.31		P	3.5
4	☐			53923.31		P	3.5
5	☐			54834.37		P	0.8
6	☐			52191.66		P	4.3
7	☐			54847.18		P	0.5
8	☐			52674.04		P	0.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	34.16	0.0000	P	82.8
2	☐	5.000	4.935	669.12	0.0001	P	13.7
3	☐	50.000	52.804	6836.82	0.0006	P	2.5
4	☐	125.000	131.704	16920.55	0.0015	P	1.4
5	☐	250.000	259.418	34075.58	0.0030	P	0.9
6	☐	500.000	505.560	66276.87	0.0058	P	1.3
7	☐	1000.000	993.888	129190.92	0.0114	P	1.4
8	☐			212.90	0.0000	P	10.0

$$y = 1.1499\text{E-}005 * x + 3.1328\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.6771$$

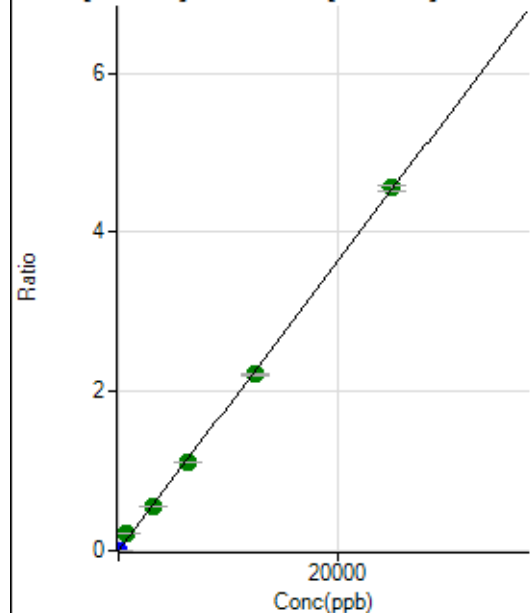
$$BEC = 0.2725$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			329.96		P	6.3
2	☐			366.21		P	8.6
3	☐			331.63		P	4.9
4	☐			336.21		P	8.2
5	☐			324.13		P	3.1
6	☐			354.96		P	5.8
7	☐			366.21		P	6.1
8	☐			376.63		P	4.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	525.03	0.0000	P	14.0
2	☐	1.000	1.014	2591.97	0.0002	P	6.6
3	☐	625.000	1247.417	2531882.54	0.2260	A	0.4
4	☐	3125.000	3085.403	6232308.69	0.5589	A	0.9
5	☐	6250.000	6137.903	12686482.14	1.1119	A	1.3
6	☐	12500.000	12213.323	25208754.73	2.2124	A	1.9
7	☐	25000.000	25160.752	51506791.78	4.5577	A	1.8
8	☐			15161.58	0.0014	P	2.5

$$y = 1.8114E-004 * x + 4.7965E-005$$

$$R = 0.9995$$

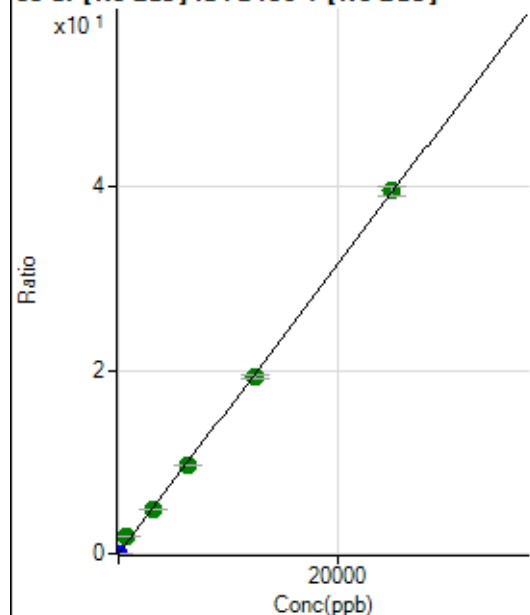
$$DL = 0.1113$$

$$BEC = 0.2648$$

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	272.23	0.0000	P	39.3
2	☐	1.000	0.964	17241.66	0.0015	P	4.6
3	☐	625.000	1220.539	21501735.20	1.9194	A	1.6
4	☐	3125.000	3044.162	53378016.82	4.7871	A	0.9
5	☐	6250.000	6138.041	110146824.6	9.6523	A	0.5
6	☐	12500.000	12273.983	219997478.5	19.3013	A	1.4
7	☐	25000.000	25136.214	446686537.7	39.5277	A	2.5
8	☐			129792.35	0.0120	P	3.5

$$y = 0.0016 * x + 2.4915E-005$$

$$R = 0.9996$$

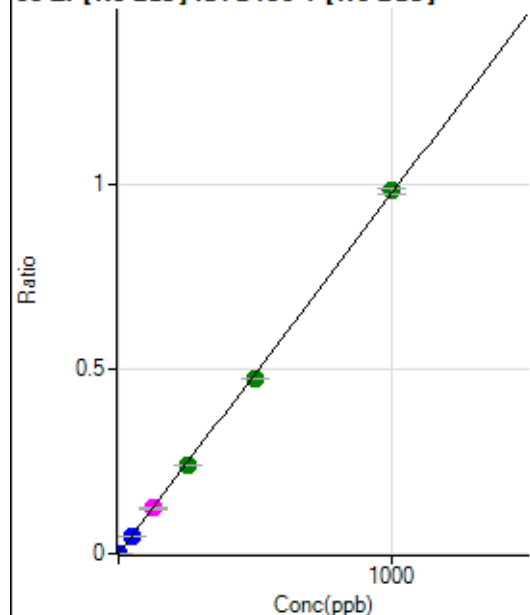
$$DL = 0.01869$$

$$BEC = 0.01584$$

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	452.80	0.0000	P	14.7
2	☐	1.000	0.935	10671.08	0.0010	P	3.0
3	☐	50.000	49.474	541002.64	0.0483	P	0.3
4	☐	125.000	125.487	1365076.86	0.1224	M	0.9
5	☐	250.000	245.764	2735398.56	0.2397	A	1.0
6	☐	500.000	487.389	5417598.95	0.4754	A	0.2
7	☐	1000.000	1007.330	11103237.06	0.9825	A	1.9
8	☐			3156.00	0.0003	P	2.7

$$y = 9.7528E-004 * x + 4.1433E-005$$

$$R = 0.9999$$

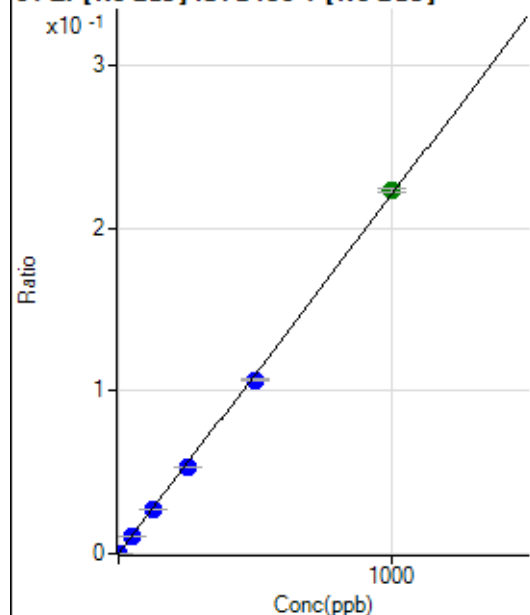
$$DL = 0.01875$$

$$BEC = 0.04248$$

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	91.67	0.0000	P	55.9
2	☐	1.000	0.888	2286.36	0.0002	P	9.2
3	☐	50.000	48.711	120520.41	0.0108	P	1.0
4	☐	125.000	122.345	301159.22	0.0270	P	0.8
5	☐	250.000	241.243	607583.14	0.0532	P	1.0
6	☐	500.000	483.053	1214853.29	0.1066	P	1.1
7	☐	1000.000	1011.059	2522125.10	0.2231	A	0.9
8	☐			722.26	0.0001	P	9.3

$$y = 2.2068\text{E-}004 * x + 8.4154\text{E-}006$$

$$R = 0.9997$$

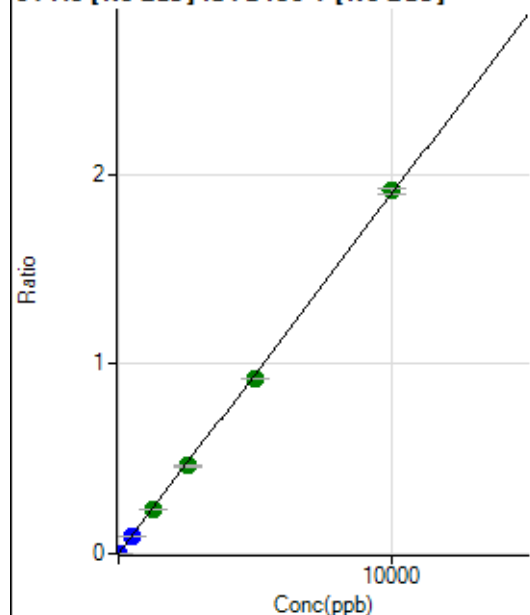
$$DL = 0.06394$$

$$BEC = 0.03813$$

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	113.89	0.0000	P	36.4
2	☐	5.000	5.472	11730.21	0.0010	P	6.0
3	☐	500.000	492.086	1046184.63	0.0934	P	0.6
4	☐	1250.000	1246.188	2637061.34	0.2365	A	1.5
5	☐	2500.000	2440.747	5284795.91	0.4632	A	0.8
6	☐	5000.000	4857.999	10506406.83	0.9218	A	0.7
7	☐	10000.000	10086.686	21630708.99	1.9140	A	1.8
8	☐			6993.67	0.0006	P	2.8

$$y = 1.8976\text{E-}004 * x + 1.0418\text{E-}005$$

$$R = 0.9998$$

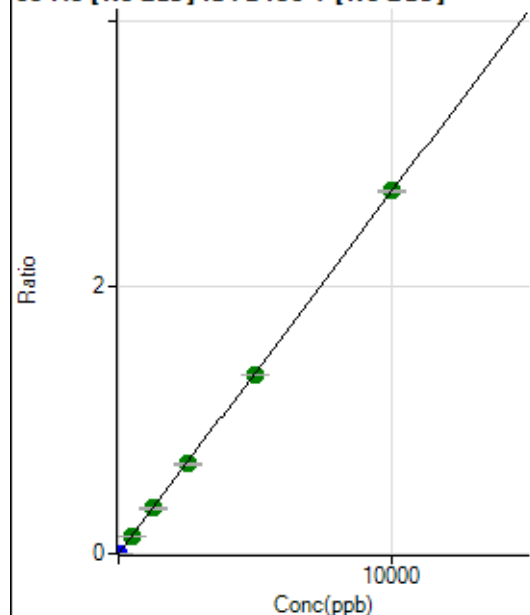
$$DL = 0.05989$$

$$BEC = 0.0549$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	42.6
2	☐	5.000	4.974	15111.32	0.0014	P	5.6
3	☐	500.000	494.342	1501894.56	0.1341	A	1.6
4	☐	1250.000	1257.329	3802161.67	0.3410	A	1.5
5	☐	2500.000	2475.205	7659588.10	0.6713	A	0.6
6	☐	5000.000	4951.101	15302780.90	1.3427	A	0.6
7	☐	10000.000	10030.015	30742749.30	2.7201	A	0.6
8	☐			9375.84	0.0009	P	8.2

$$y = 2.7119\text{E-}004 * x + 2.0272\text{E-}006$$

$$R = 1.0000$$

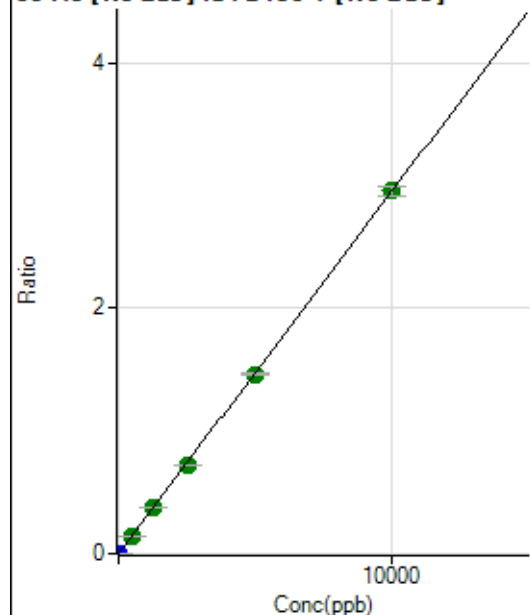
$$DL = 0.009558$$

$$BEC = 0.007475$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	183.34	0.0000	P	22.8
2	☐	5.000	4.959	16560.37	0.0015	P	2.4
3	☐	500.000	499.601	1651145.57	0.1474	A	2.1
4	☐	1250.000	1265.494	4162756.52	0.3733	A	1.9
5	☐	2500.000	2452.772	8255722.32	0.7235	A	1.0
6	☐	5000.000	4960.204	16675434.75	1.4632	A	1.5
7	☐	10000.000	10029.788	33435753.18	2.9587	A	2.4
8	☐			24210.87	0.0022	P	3.7

$$y = 2.9499\text{E-}004 * x + 1.6720\text{E-}005$$

$$R = 1.0000$$

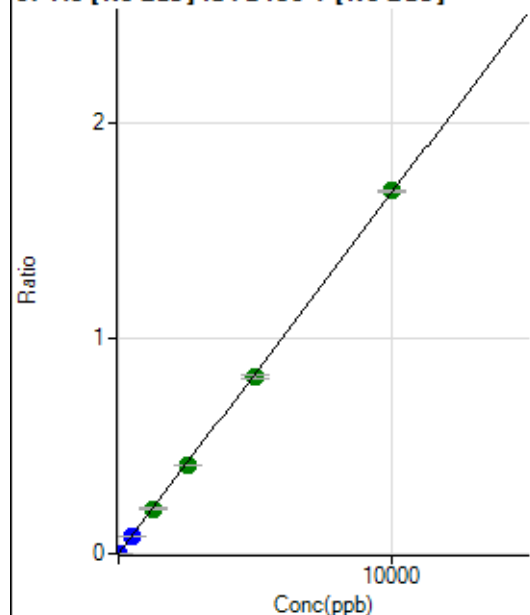
$$DL = 0.0388$$

$$BEC = 0.05668$$

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	8.33	0.0000	P	101.
2	☐	5.000	4.918	9203.31	0.0008	P	5.6
3	☐	500.000	501.733	939410.23	0.0839	P	1.1
4	☐	1250.000	1243.413	2317333.21	0.2078	A	1.8
5	☐	2500.000	2450.683	4674915.60	0.4096	A	1.9
6	☐	5000.000	4912.246	9354915.49	0.8210	A	1.8
7	☐	10000.000	10056.943	18998190.53	1.6808	A	0.7
8	☐			5829.17	0.0005	P	1.1

$$y = 1.6713E-004 * x + 7.6796E-007$$

$$R = 0.9999$$

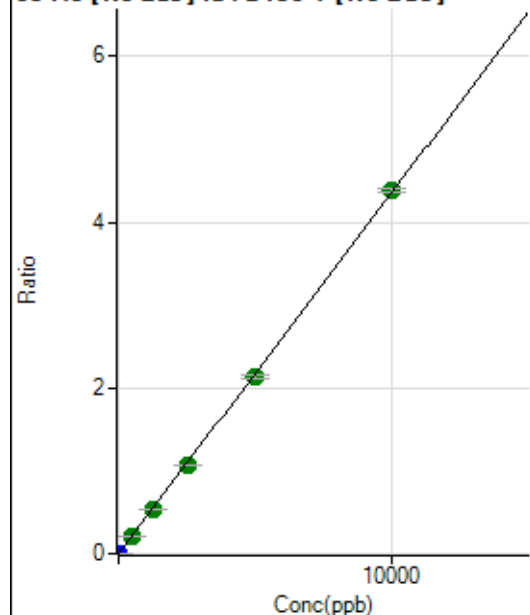
$$DL = 0.01393$$

$$BEC = 0.004595$$

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	50.00	0.0000	P	34.9
2	☐	5.000	4.758	23236.69	0.0021	P	3.7
3	☐	500.000	499.214	2435613.29	0.2174	A	2.0
4	☐	1250.000	1232.658	5986151.17	0.5368	A	1.9
5	☐	2500.000	2453.638	12192929.79	1.0686	A	1.0
6	☐	5000.000	4923.813	24433687.70	2.1444	A	2.0
7	☐	10000.000	10051.891	49479718.12	4.3777	A	1.2
8	☐			14377.61	0.0013	P	2.6

$$y = 4.3551E-004 * x + 4.5842E-006$$

$$R = 0.9999$$

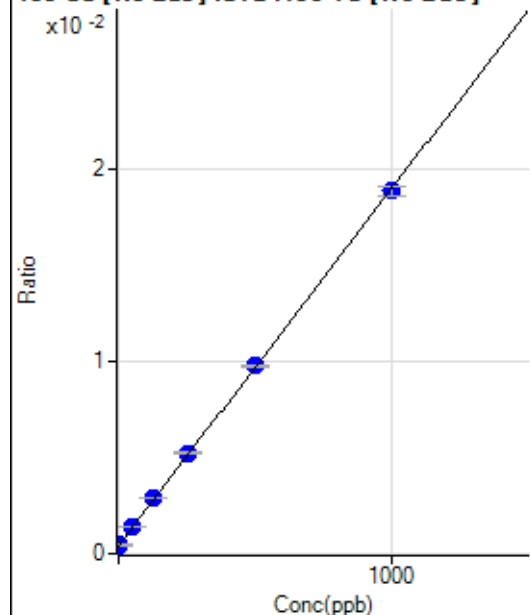
$$DL = 0.01101$$

$$BEC = 0.01053$$

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	3792.30	0.0004	P	6.3
2	☐	1.000	2.524	4386.93	0.0005	P	6.9
3	☐	50.000	53.682	13512.56	0.0014	P	1.9
4	☐	125.000	133.594	27394.59	0.0029	P	2.9
5	☐	250.000	259.821	50591.05	0.0052	P	1.1
6	☐	500.000	504.416	94857.19	0.0098	P	1.3
7	☐	1000.000	994.077	183510.02	0.0189	P	2.5
8	☐			3831.21	0.0004	P	11.9

$$y = 1.8590\text{E-}005 * x + 4.1486\text{E-}004$$

$$R = 0.9999$$

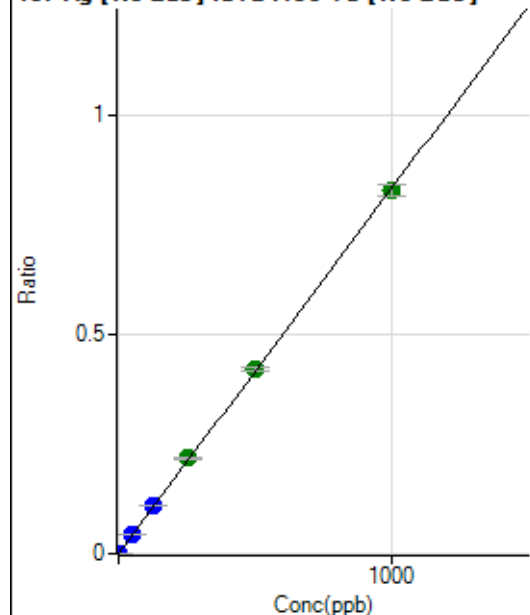
$$DL = 4.228$$

$$BEC = 22.32$$

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	113.89	0.0000	P	5.2
2	☐	1.000	1.026	8213.78	0.0009	P	9.4
3	☐	50.000	52.060	413979.60	0.0433	P	0.5
4	☐	125.000	130.840	1027850.96	0.1088	P	0.5
5	☐	250.000	261.961	2100259.16	0.2177	A	1.4
6	☐	500.000	504.884	4064900.83	0.4196	A	1.3
7	☐	1000.000	993.735	8019941.59	0.8259	A	3.3
8	☐			3575.56	0.0004	P	2.5

$$y = 8.3114\text{E-}004 * x + 1.2469\text{E-}005$$

$$R = 0.9999$$

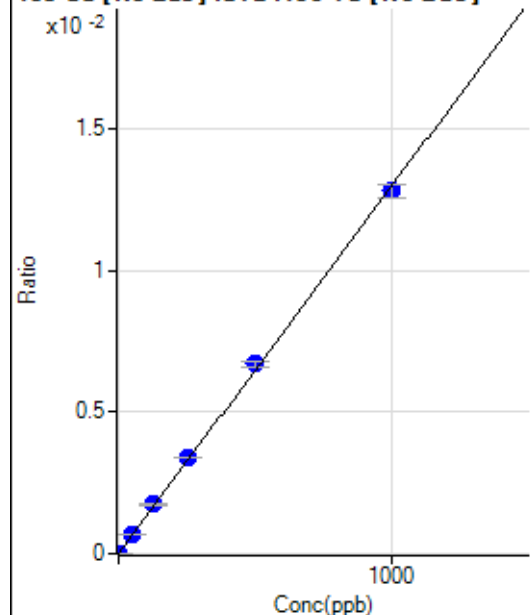
$$DL = 0.00234$$

$$BEC = 0.015$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	17.2
2	☐	1.000	0.710	113.89	0.0000	P	37.7
3	☐	50.000	52.597	6558.57	0.0007	P	3.5
4	☐	125.000	133.635	16423.79	0.0017	P	1.2
5	☐	250.000	261.909	32832.35	0.0034	P	1.4
6	☐	500.000	515.989	64927.26	0.0067	P	2.2
7	☐	1000.000	987.820	124567.51	0.0128	P	3.7
8	☐			75.00	0.0000	P	27.4

$$y = 1.2985\text{E-}005 * x + 2.7380\text{E-}006$$

$$R = 0.9997$$

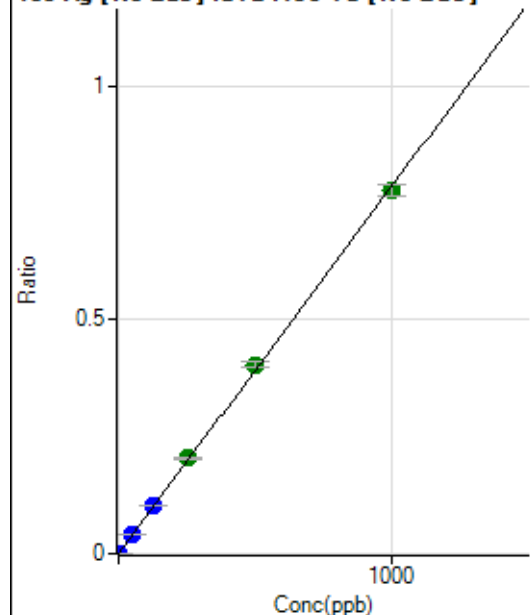
$$DL = 0.1087$$

$$BEC = 0.2109$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	47.22	0.0000	P	43.8
2	☐	1.000	1.047	7858.03	0.0008	P	5.4
3	☐	50.000	53.542	402166.79	0.0420	P	0.5
4	☐	125.000	130.252	966648.84	0.1023	P	2.1
5	☐	250.000	260.904	1975946.38	0.2049	A	2.8
6	☐	500.000	515.825	3923126.39	0.4050	A	2.2
7	☐	1000.000	988.528	7537566.49	0.7762	A	3.0
8	☐			3447.75	0.0004	P	3.3

$$y = 7.8521\text{E-}004 * x + 5.1615\text{E-}006$$

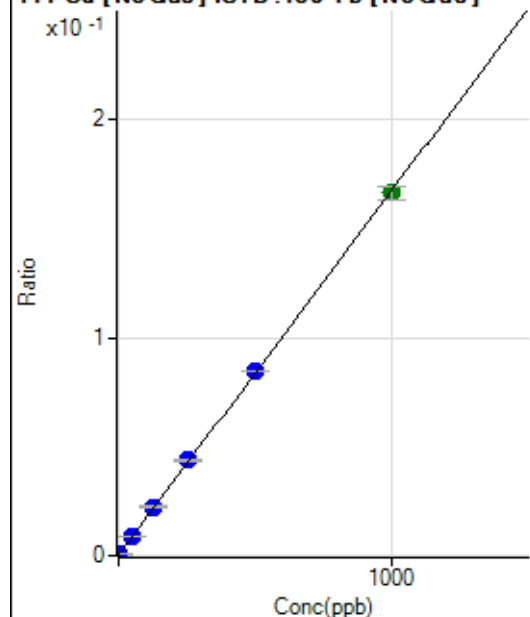
$$R = 0.9997$$

$$DL = 0.008642$$

$$BEC = 0.006573$$

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	2646.83	0.0003	P	6.6
2	☐	1.000	1.240	4720.42	0.0005	P	3.5
3	☐	50.000	52.906	87293.66	0.0091	P	0.4
4	☐	125.000	132.069	211210.81	0.0223	P	2.0
5	☐	250.000	259.921	421604.98	0.0437	P	0.4
6	☐	500.000	503.959	818260.58	0.0845	P	0.5
7	☐	1000.000	994.511	1615770.23	0.1664	A	3.4
8	☐			3214.09	0.0003	P	10.2

$$y = 1.6703\text{E-}004 * x + 2.8954\text{E-}004$$

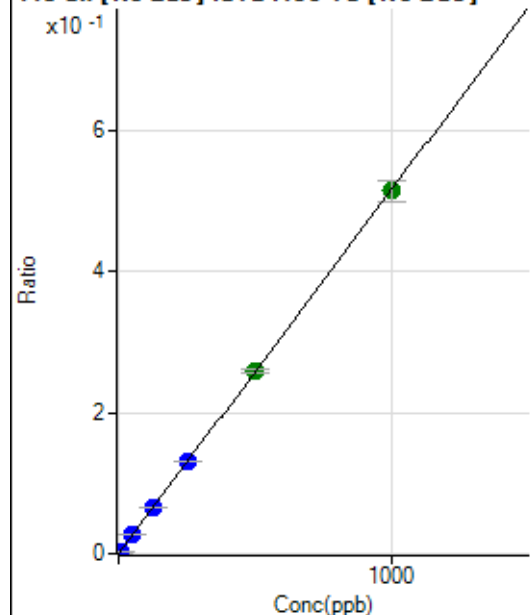
$$R = 0.9999$$

$$DL = 0.345$$

$$BEC = 1.733$$

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	472.24	0.0001	P	13.9
2	☐	5.000	5.012	25048.48	0.0026	P	0.7
3	☐	50.000	50.356	248727.71	0.0260	P	0.9
4	☐	125.000	126.635	617255.04	0.0653	P	1.2
5	☐	250.000	255.058	1268549.54	0.1315	P	0.6
6	☐	500.000	503.882	2515862.27	0.2597	A	2.0
7	☐	1000.000	996.572	4985564.56	0.5137	A	5.8
8	☐			6023.71	0.0007	P	5.4

$$y = 5.1539\text{E-}004 * x + 5.1631\text{E-}005$$

$$R = 1.0000$$

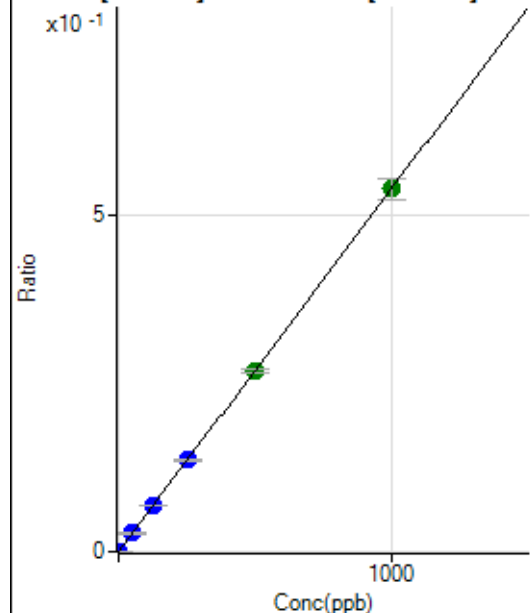
$$DL = 0.04185$$

$$BEC = 0.1002$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	25.00	0.0000	P	99.7
2	☐	2.000	1.991	10215.20	0.0011	P	3.6
3	☐	50.000	50.344	259270.75	0.0271	P	0.5
4	☐	125.000	126.914	645751.76	0.0683	P	0.7
5	☐	250.000	252.977	1313761.08	0.1362	P	1.4
6	☐	500.000	498.538	2599854.83	0.2684	A	1.5
7	☐	1000.000	999.730	5223458.58	0.5382	A	5.6
8	☐			3847.91	0.0004	P	20.8

$$y = 5.3838\text{E-}004 * x + 2.7468\text{E-}006$$

$$R = 1.0000$$

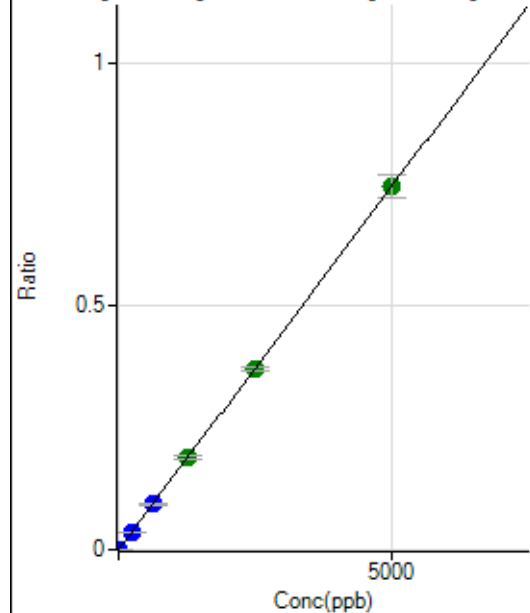
$$DL = 0.01525$$

$$BEC = 0.005102$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	38.89	0.0000	P	33.7
2	☐	10.000	9.510	13496.02	0.0014	P	8.0
3	☐	250.000	243.240	346589.71	0.0362	P	2.0
4	☐	625.000	623.445	877664.51	0.0929	P	0.4
5	☐	1250.000	1274.219	1830718.92	0.1898	A	2.7
6	☐	2500.000	2492.884	3596860.32	0.3713	A	1.6
7	☐	5000.000	4998.037	7224287.83	0.7445	A	6.2
8	☐			4525.90	0.0005	P	3.6

$$y = 1.4896\text{E-}004 * x + 4.2667\text{E-}006$$

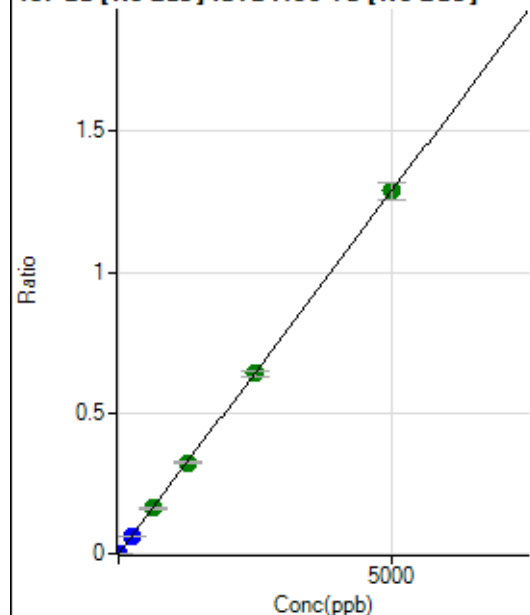
$$R = 1.0000$$

$$DL = 0.02893$$

$$BEC = 0.02864$$

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	50.00	0.0000	P	44.2
2	☐	10.000	9.477	23245.66	0.0024	P	4.7
3	☐	250.000	244.362	601914.69	0.0629	P	0.4
4	☐	625.000	627.979	1528322.83	0.1617	A	1.6
5	☐	1250.000	1257.909	3124543.06	0.3239	A	1.1
6	☐	2500.000	2485.381	6198518.02	0.6400	A	2.7
7	☐	5000.000	5005.243	12511163.99	1.2889	A	4.6
8	☐			7899.79	0.0009	P	5.3

$$y = 2.5751E-004 * x + 5.4764E-006$$

$$R = 1.0000$$

$$DL = 0.02821$$

$$BEC = 0.02127$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6.67		P	173.
2	☐			6.67		P	0.0
3	☐			68.89		P	20.1
4	☐			104.45		P	45.3
5	☐			248.90		P	22.5
6	☐			522.25		P	2.7
7	☐			877.83		P	7.6
8	☐			57.78		P	29.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			1.11		P	173.
3	☐			4.44		P	43.4
4	☐			14.44		P	58.1
5	☐			20.00		P	44.1
6	☐			24.44		P	20.8
7	☐			93.34		P	16.4
8	☐			21.11		P	32.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	86.6
2	☐			11.11		P	173.
3	☐			38.89		P	32.7
4	☐			69.45		P	45.4
5	☐			113.89		P	21.1
6	☐			238.90		P	7.3
7	☐			480.58		P	26.3
8	☐			1191.75		P	8.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.44		P	114.
3	☐			14.44		P	35.3
4	☐			28.89		P	6.7
5	☐			40.00		P	33.3
6	☐			115.56		P	31.8
7	☐			177.78		P	3.9
8	☐			532.24		P	6.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	9.1
2	☐			83.33		P	45.8
3	☐			72.22		P	24.0
4	☐			125.01		P	35.3
5	☐			166.67		P	27.8
6	☐			286.12		P	17.8
7	☐			369.46		P	9.1
8	☐			1355.66		P	9.2

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			150.01		P	13.9
2	☐			154.45		P	9.0
3	☐			141.11		P	17.4
4	☐			148.89		P	21.5
5	☐			158.89		P	4.4
6	☐			205.56		P	17.9
7	☐			285.56		P	11.9
8	☐			768.92		P	5.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			61.11		P	15.7
2	☐			77.78		P	37.6
3	☐			80.56		P	67.3
4	☐			83.34		P	34.6
5	☐			80.56		P	48.9
6	☐			113.89		P	4.2
7	☐			191.67		P	19.9
8	☐			102.78		P	12.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			34.44		P	24.3
2	☐			35.56		P	35.5
3	☐			33.33		P	50.0
4	☐			40.00		P	52.0
5	☐			50.00		P	20.0
6	☐			64.45		P	16.6
7	☐			85.56		P	2.3
8	☐			53.34		P	39.0

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			58.34		P	37.8
2	☐			44.44		P	39.0
3	☐			83.34		P	36.1
4	☐			80.56		P	26.0
5	☐			116.67		P	32.7
6	☐			138.89		P	33.0
7	☐			233.34		P	12.4
8	☐			475.02		P	19.5

172 Yb [He] No available calibration points

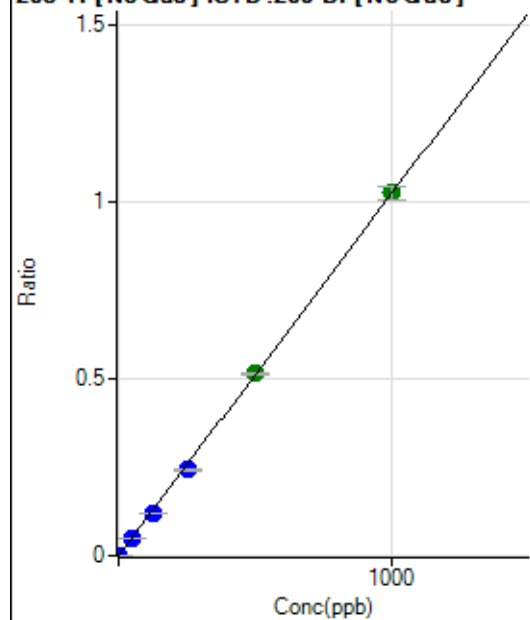
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			46.30		P	18.3
2	☐			24.07		P	13.3
3	☐			27.78		P	52.9
4	☐			27.78		P	34.6
5	☐			51.85		P	6.2
6	☐			68.52		P	12.4
7	☐			103.71		P	25.3
8	☐			259.27		P	1.2

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1338.99		P	4.8
2	☐			1491.79		P	4.6
3	☐			2869.84		P	3.0
4	☐			4484.22		P	3.4
5	☐			7821.96		P	2.7
6	☐			14424.97		P	3.0
7	☐			26699.71		P	1.9
8	☐			1758.51		P	9.3

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			9005.07		P	2.5
2	☐			9123.73		P	3.1
3	☐			9590.69		P	1.7
4	☐			10665.61		P	1.3
5	☐			11772.13		P	1.9
6	☐			15010.63		P	0.7
7	☐			19653.81		P	0.1
8	☐			9162.58		P	4.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	100.00	0.0000	P	22.5
2	☐	1.000	0.897	5515.21	0.0009	P	3.5
3	☐	50.000	47.112	276385.23	0.0482	P	0.9
4	☐	125.000	116.089	698291.78	0.1188	P	2.5
5	☐	250.000	237.763	1443079.25	0.2433	P	3.0
6	☐	500.000	502.574	2983350.15	0.5142	A	1.0
7	☐	1000.000	1003.031	5853216.49	1.0262	A	3.8
8	☐			1641.82	0.0003	P	7.9

$$y = 0.0010 * x + 1.7624E-005$$

$$R = 0.9999$$

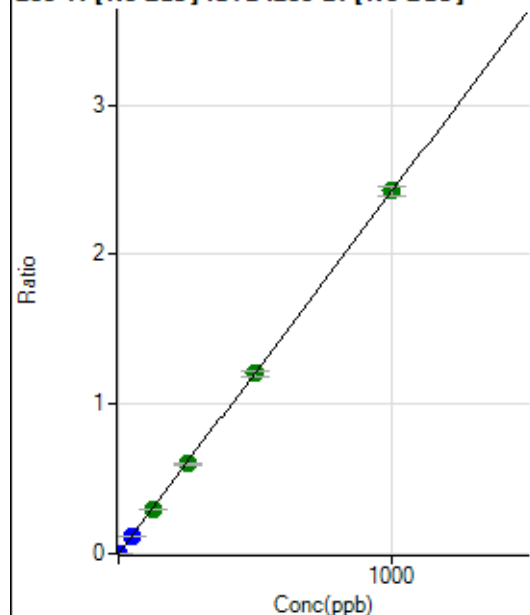
$$DL = 0.01163$$

$$BEC = 0.01723$$

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	197.23	0.0000	P	7.5
2	☐	1.000	0.899	13020.80	0.0022	P	3.4
3	☐	50.000	48.705	675322.03	0.1178	P	1.3
4	☐	125.000	122.641	1743665.71	0.2966	A	2.7
5	☐	250.000	247.970	3557805.03	0.5998	A	3.3
6	☐	500.000	497.071	6974592.60	1.2022	A	2.3
7	☐	1000.000	1002.332	13829050.83	2.4242	A	2.5
8	☐			3867.35	0.0008	P	5.8

$$y = 0.0024 * x + 3.4752E-005$$

$$R = 1.0000$$

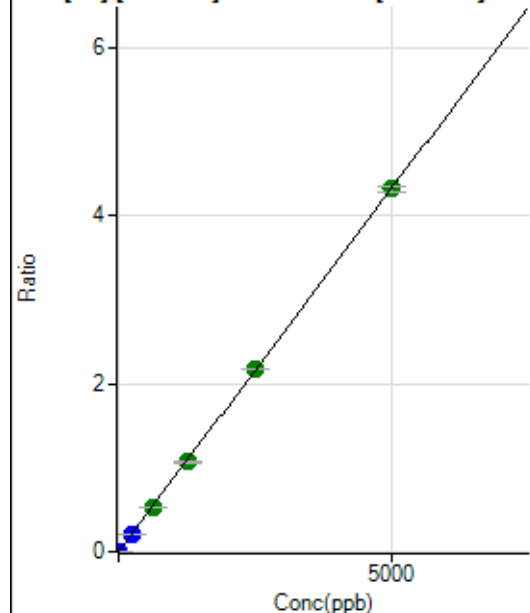
$$DL = 0.003227$$

$$BEC = 0.01437$$

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	674.10	0.0001	P	12.2
2	☐	1.000	0.839	4976.99	0.0008	P	3.6
3	☐	250.000	235.981	1169826.26	0.2041	P	2.7
4	☐	625.000	613.631	3119097.90	0.5306	A	1.9
5	☐	1250.000	1237.317	6348012.01	1.0699	A	1.3
6	☐	2500.000	2516.663	12624850.97	2.1759	A	0.7
7	☐	5000.000	4996.961	24650471.85	4.3203	A	1.8
8	☐			6801.93	0.0014	P	5.4

$$y = 8.6457E-004 * x + 1.1862E-004$$

$$R = 1.0000$$

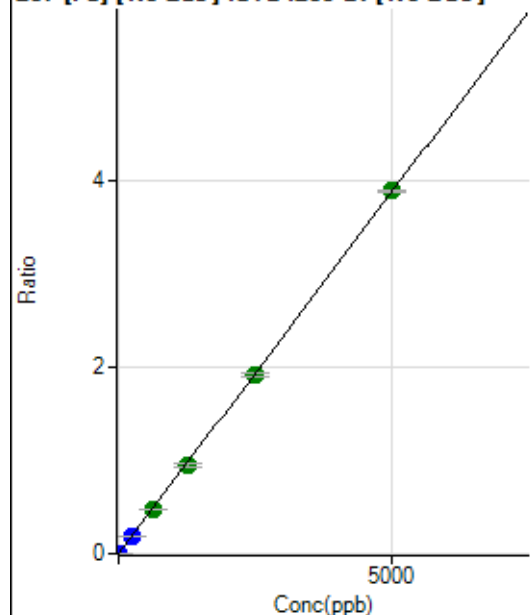
$$DL = 0.05036$$

$$BEC = 0.1372$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	546.32	0.0001	P	3.8
2	☐	1.000	0.843	4410.09	0.0007	P	3.1
3	☐	250.000	236.525	1047956.38	0.1829	P	2.6
4	☐	625.000	615.503	2796708.71	0.4757	A	0.7
5	☐	1250.000	1223.811	5610786.47	0.9458	A	2.7
6	☐	2500.000	2471.630	11081330.92	1.9101	A	2.3
7	☐	5000.000	5022.593	22144887.07	3.8813	A	0.5
8	☐			5845.87	0.0012	P	1.7

$$y = 7.7275E-004 * x + 9.6230E-005$$

$$R = 1.0000$$

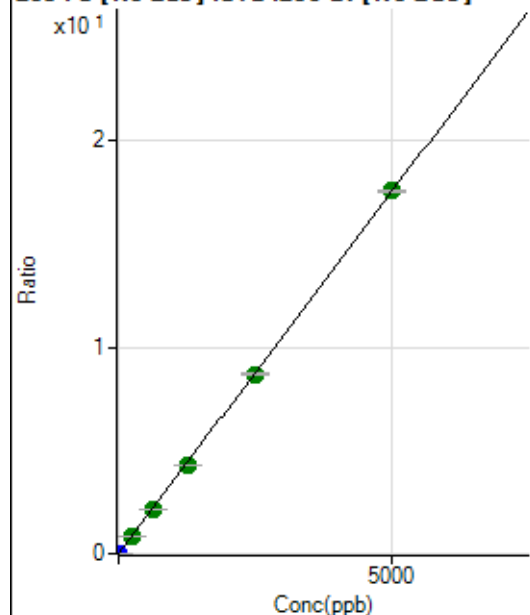
$$DL = 0.0142$$

$$BEC = 0.1245$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	2548.29	0.0004	P	4.2
2	☐	1.000	0.846	20106.49	0.0034	P	0.6
3	☐	250.000	243.003	4879172.39	0.8514	A	2.0
4	☐	625.000	612.722	12615745.88	2.1461	A	0.9
5	☐	1250.000	1225.834	25470740.45	4.2930	A	1.6
6	☐	2500.000	2483.862	50468435.50	8.6984	A	0.6
7	☐	5000.000	5015.995	100220402.7	17.5653	A	0.3
8	☐			27184.16	0.0055	P	2.2

$$y = 0.0035 * x + 4.4876E-004$$

$$R = 1.0000$$

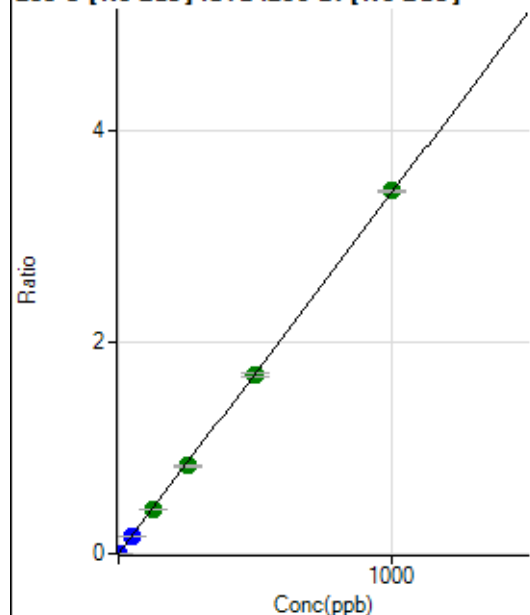
$$DL = 0.01613$$

$$BEC = 0.1282$$

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	50.00	0.0000	P	45.2
2	☐	1.000	0.897	18121.79	0.0031	P	6.6
3	☐	50.000	47.487	930582.79	0.1624	P	2.0
4	☐	125.000	122.661	2465730.70	0.4194	A	0.7
5	☐	250.000	242.708	4922974.59	0.8299	A	2.9
6	☐	500.000	493.951	9798713.67	1.6890	A	1.9
7	☐	1000.000	1005.266	19611495.23	3.4373	A	0.7
8	☐			1647.39	0.0003	P	11.4

$$y = 0.0034 * x + 8.8311E-006$$

$$R = 0.9999$$

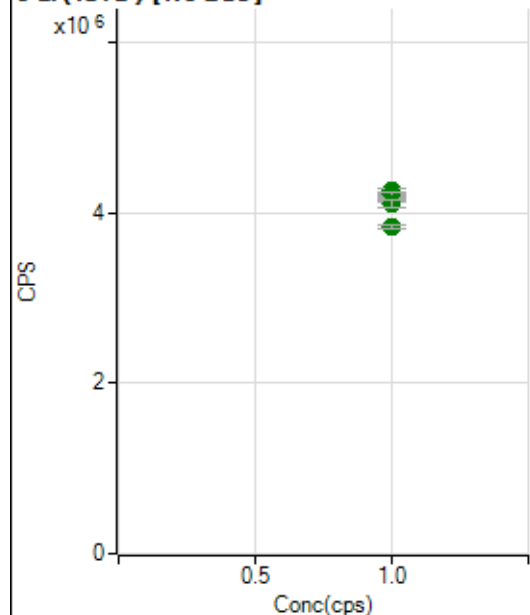
$$DL = 0.003504$$

$$BEC = 0.002583$$

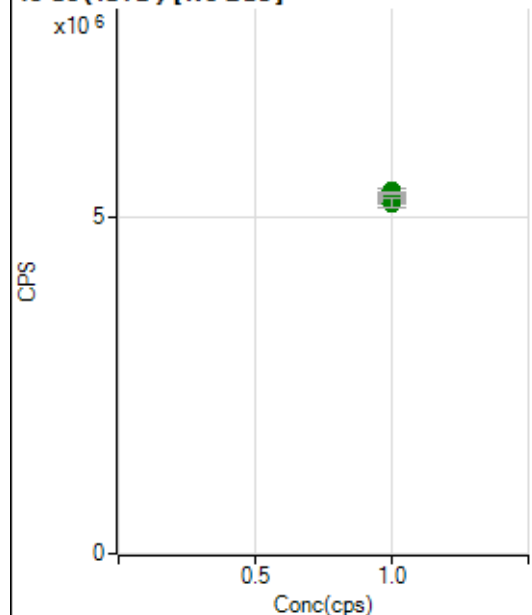
Weight: <None>

Min Conc: 0

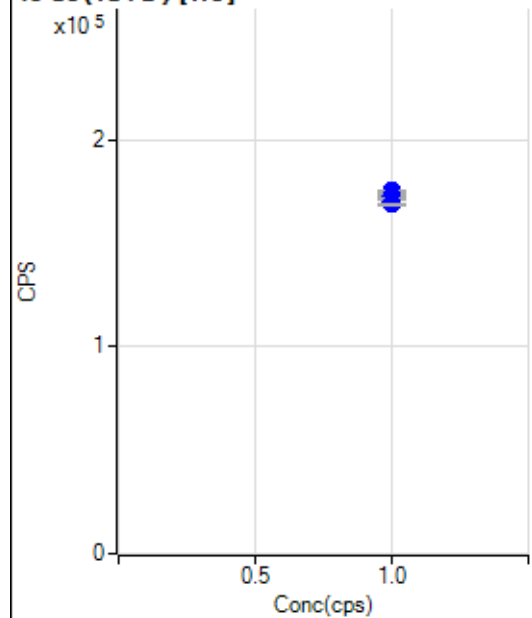
6 Li (ISTD) [No Gas]



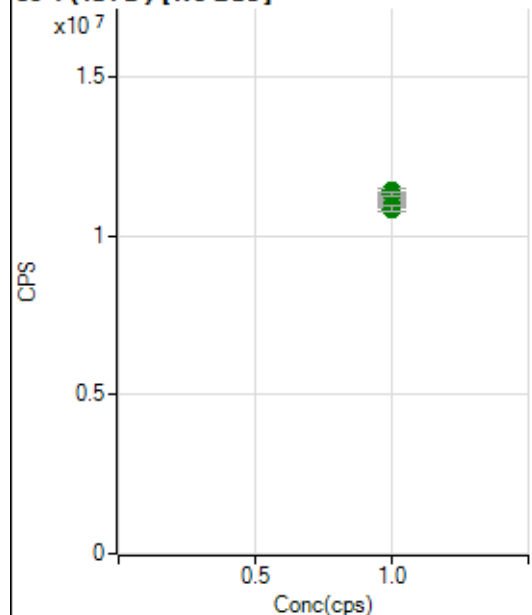
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4228453.22		A	2.9
2	☐	1.000		4154354.78		A	1.3
3	☐	1.000		4181290.42		A	0.5
4	☐	1.000		4263012.28		A	1.4
5	☐	1.000		4166836.70		A	0.7
6	☐	1.000		4215752.15		A	1.6
7	☐	1.000		4114172.12		A	2.3
8	☐	1.000		3847593.80		A	1.2

45 Sc (ISTD) [No Gas]

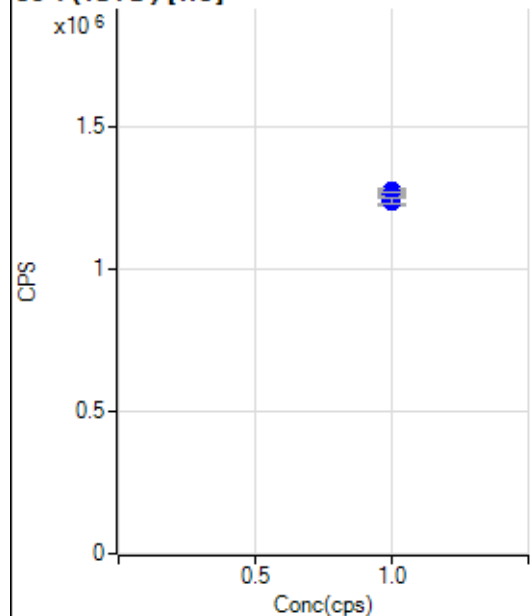
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5218634.20		A	1.6
2	☐	1.000		5268354.43		A	1.1
3	☐	1.000		5197834.72		A	0.4
4	☐	1.000		5280007.98		A	2.0
5	☐	1.000		5290678.88		A	1.0
6	☐	1.000		5382269.44		A	1.3
7	☐	1.000		5350682.01		A	0.9
8	☐	1.000		5201502.35		A	3.1

45 Sc (ISTD) [He]

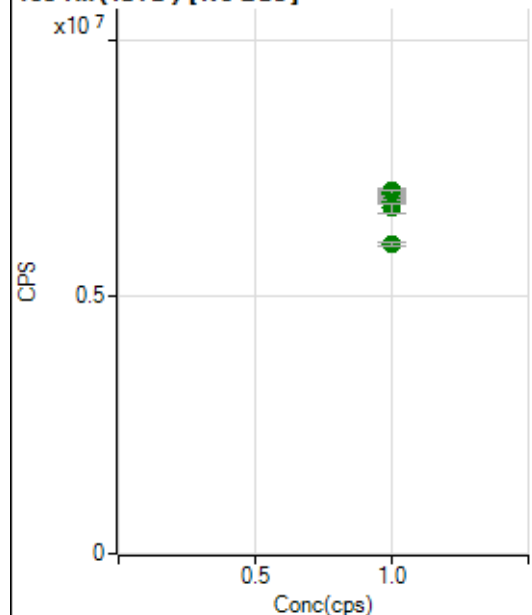
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		169678.44		P	1.2
2	☐	1.000		170508.83		P	2.6
3	☐	1.000		173677.68		P	0.5
4	☐	1.000		173989.63		P	0.9
5	☐	1.000		175211.45		P	0.4
6	☐	1.000		173000.39		P	0.9
7	☐	1.000		171737.94		P	0.6
8	☐	1.000		168872.14		P	0.7

89 Y (ISTD) [No Gas]

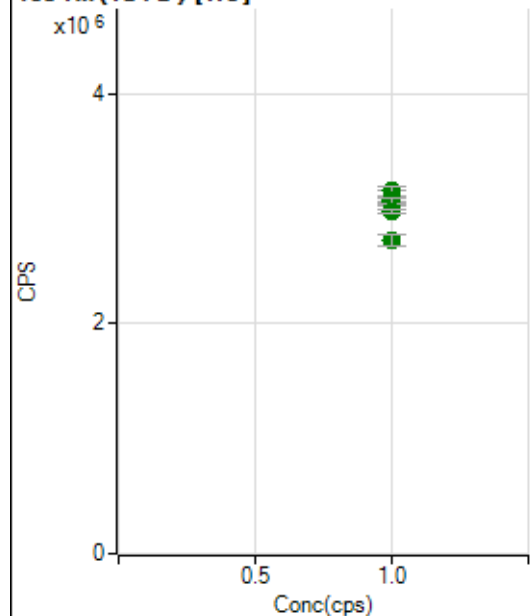
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		10945472.75		A	1.6
2	☐	1.000		11194283.17		A	2.2
3	☐	1.000		11202649.14		A	0.2
4	☐	1.000		11150600.11		A	0.7
5	☐	1.000		11411411.22		A	1.7
6	☐	1.000		11396526.64		A	1.7
7	☐	1.000		11302543.03		A	1.1
8	☐	1.000		10846664.56		A	1.6

89 Y (ISTD) [He]

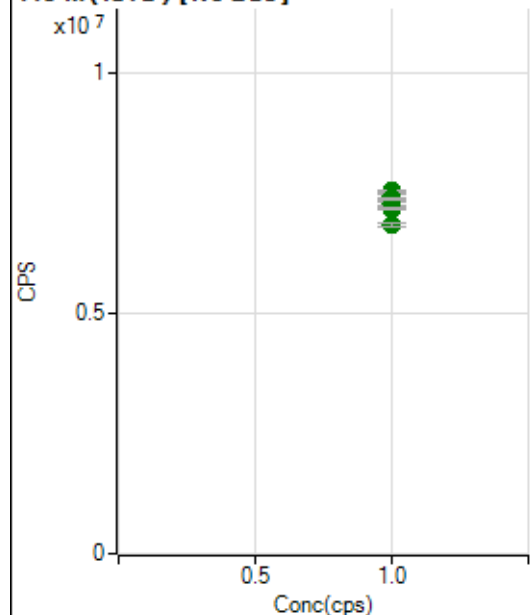
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		1247346.74		P	2.2
2	☐	1.000		1254885.73		M	4.7
3	☐	1.000		1274425.91		P	1.2
4	☐	1.000		1269611.48		P	1.3
5	☐	1.000		1276801.85		P	0.2
6	☐	1.000		1274180.16		P	1.4
7	☐	1.000		1265466.10		P	0.8
8	☐	1.000		1241820.18		P	1.7

103 Rh (ISTD) [No Gas]

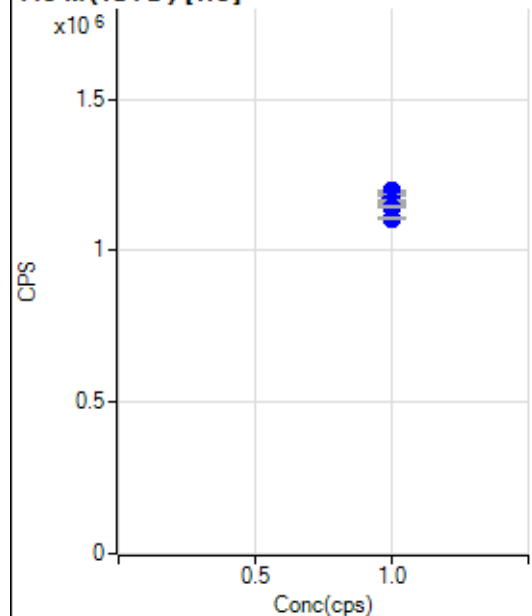
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6861043.77		A	1.8
2	☐	1.000		7053504.67		A	1.5
3	☐	1.000		6992892.00		A	1.0
4	☐	1.000		6946411.44		A	2.8
5	☐	1.000		7009910.83		A	1.3
6	☐	1.000		6833738.43		A	1.0
7	☐	1.000		6711720.38		A	3.0
8	☐	1.000		6016667.28		A	1.1

103 Rh (ISTD) [He]

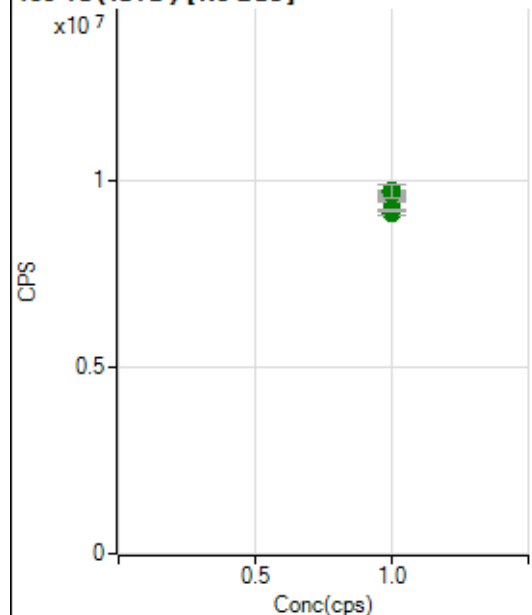
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3070610.37		A	2.6
2	☐	1.000		3104145.79		A	3.5
3	☐	1.000		3154635.61		A	2.6
4	☐	1.000		3081036.24		A	1.2
5	☐	1.000		3077856.55		A	1.0
6	☐	1.000		3065505.44		A	1.8
7	☐	1.000		2979362.45		A	1.2
8	☐	1.000		2727117.88		A	3.5

115 In (ISTD) [No Gas]

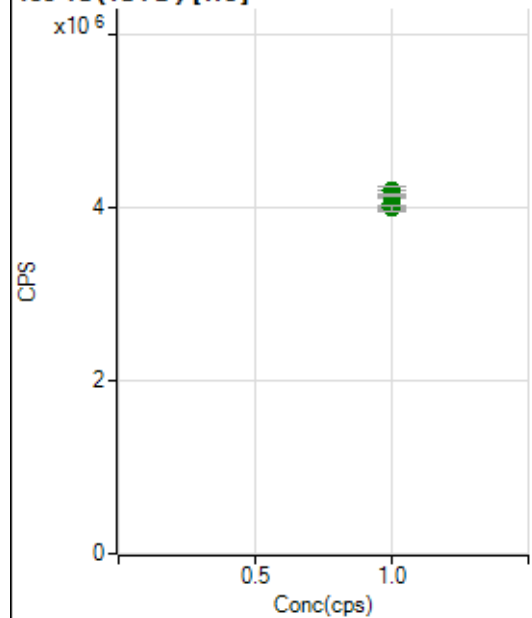
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7276405.08		A	1.3
2	☐	1.000		7430808.19		A	1.5
3	☐	1.000		7383914.45		A	0.5
4	☐	1.000		7430065.28		A	1.4
5	☐	1.000		7548590.30		A	0.4
6	☐	1.000		7383499.38		A	0.5
7	☐	1.000		7181825.79		A	0.7
8	☐	1.000		6851674.84		A	1.1

115 In (ISTD) [He]

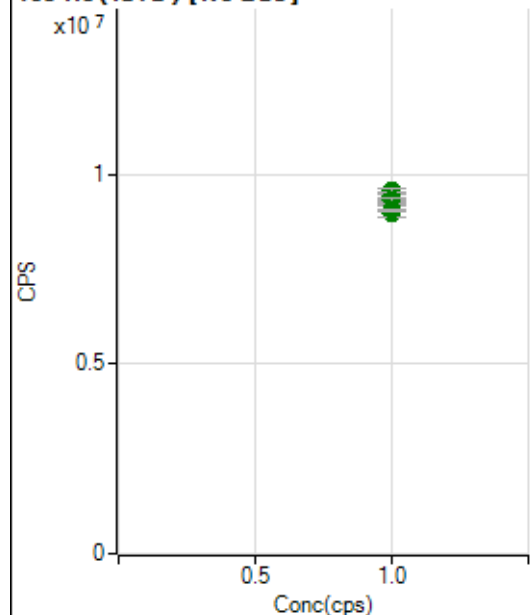
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1160774.33		P	1.4
2	☐	1.000		1176853.07		P	3.2
3	☐	1.000		1197485.01		P	0.6
4	☐	1.000		1184862.65		P	1.0
5	☐	1.000		1189217.86		P	0.1
6	☐	1.000		1163493.37		P	0.8
7	☐	1.000		1144634.56		P	0.9
8	☐	1.000		1106510.37		P	0.5

159 Tb (ISTD) [No Gas]

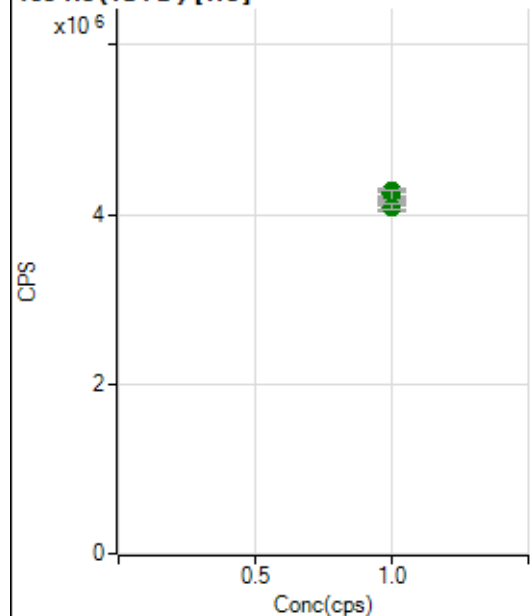
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9137215.84		A	1.1
2	☐	1.000		9508200.14		A	2.2
3	☐	1.000		9564767.36		A	0.2
4	☐	1.000		9450702.08		A	1.0
5	☐	1.000		9646575.14		A	0.9
6	☐	1.000		9687572.50		A	1.4
7	☐	1.000		9717841.66		A	3.7
8	☐	1.000		9194272.71		A	0.4

159 Tb (ISTD) [He]

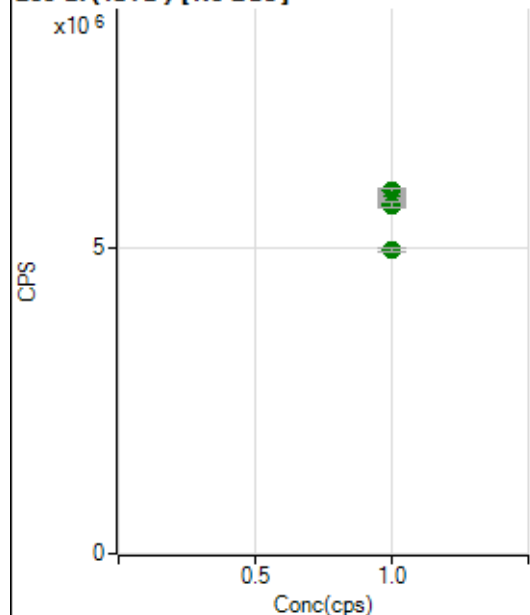
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3995322.16		A	1.3
2	☐	1.000		4049733.24		A	2.7
3	☐	1.000		4050116.43		A	2.5
4	☐	1.000		4145903.17		A	2.1
5	☐	1.000		4152989.66		A	2.4
6	☐	1.000		4191232.58		A	2.1
7	☐	1.000		4142150.08		A	0.4
8	☐	1.000		3990985.04		A	1.3

165 Ho (ISTD) [No Gas]

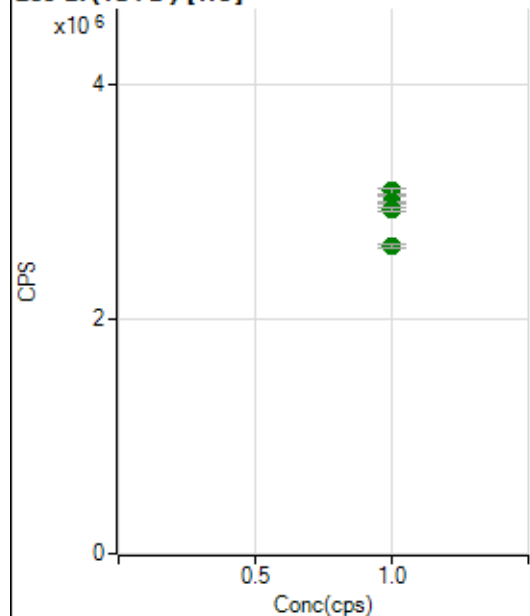
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8973556.28		A	2.2
2	☐	1.000		9172365.48		A	1.8
3	☐	1.000		9220997.69		A	1.5
4	☐	1.000		9223276.68		A	1.4
5	☐	1.000		9410147.87		A	1.6
6	☐	1.000		9554518.79		A	1.0
7	☐	1.000		9303043.87		A	1.9
8	☐	1.000		9041060.10		A	1.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4078161.74		A	1.6
2	☐	1.000		4087237.44		A	2.2
3	☐	1.000		4204396.74		A	2.8
4	☐	1.000		4164430.29		A	1.2
5	☐	1.000		4276620.73		A	1.1
6	☐	1.000		4257761.22		A	1.9
7	☐	1.000		4229758.23		A	2.4
8	☐	1.000		4089072.34		A	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5678308.67		A	1.1
2	☐	1.000		5895455.95		A	1.4
3	☐	1.000		5731763.25		A	1.3
4	☐	1.000		5878751.72		A	1.3
5	☐	1.000		5934154.29		A	1.9
6	☐	1.000		5802241.09		A	0.9
7	☐	1.000		5705729.77		A	1.4
8	☐	1.000		4967073.81		A	1.7

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2992957.39		A	3.0
2	☐	1.000		2979862.39		A	4.2
3	☐	1.000		3056099.54		A	0.4
4	☐	1.000		3053852.42		A	0.3
5	☐	1.000		3087499.75		A	1.7
6	☐	1.000		2987819.26		A	0.8
7	☐	1.000		2932574.78		A	0.8
8	☐	1.000		2615116.37		A	1.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP8021623 MS.b

Acq. Date-Time 2023-02-16 13:09:43

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		12814	128139.95			0.572	5.000
24		77054	770544.35			0.436	5.000
25		10710	107104.78			0.587	5.000
26		12226	122263.62			0.693	5.000
59		54332	543318.61			0.378	5.000
113		6266	62656.63			0.813	5.000
115		81696	816958.09			1.026	5.000
206		17982	179817.37			0.358	5.000
207		16352	163515.11			0.774	5.000
208		39715	397148.90			0.990	5.000
220		0	4.00			52.291	

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

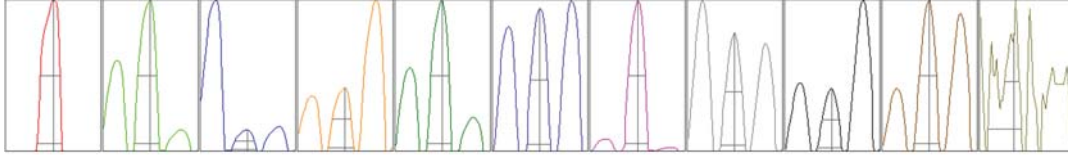
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	12716	12780	12902	12868	12805
24	77127	77058	77089	77468	76531
25	10696	10621	10782	10697	10758
26	12196	12137	12356	12261	12182
59	54021	54460	54565	54300	54313
113	6212	6343	6228	6272	6273
115	81790	80791	81724	81171	83003
206	17967	17897	17958	18065	18022
207	16242	16437	16397	16195	16486
208	39485	39284	39691	39788	40326

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	1	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	21997.08	9.05	8.90 - 9.10	
24	135314.98	24.00	23.90 - 24.10	
25	18499.29	25.00	24.90 - 25.10	
26	21496.25	26.00	25.90 - 26.10	
59	100237.39	59.00	58.90 - 59.10	
113	12156.24	113.00	112.90 - 113.10	
115	159781.05	115.05	114.90 - 115.10	
206	34874.35	206.00	205.90 - 206.10	
207	31687.66	207.00	206.90 - 207.10	
208	76477.99	208.00	207.90 - 208.10	
220	0.70	219.60	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.779	0.900	
24	0.60	0.784	0.900	
25	0.60	0.786	0.900	
26	0.61	0.820	0.900	
59	0.57	0.775	0.900	
113	0.54	0.731	0.900	
115	0.53	0.736	0.900	
206	0.53	0.782	0.900	
207	0.53	0.773	0.900	
208	0.53	0.779	0.900	
220	0.46	1.049		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	16.4 V
Extract 2	-180.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		12092	120924.19			0.389	
89		14582	145817.66			0.789	
205		11667	116665.55			1.326	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	12088	12164	12053	12049	12108
89	14683	14656	14477	14438	14655
205	11633	11744	11461	11618	11876

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	10.0 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-180.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		

Cell Parameters

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

QP Parameters

Mass Gain	123	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	1.0 mm	Torch V	-0.7 mm
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EM

Discriminator	4.5 mV	Analog HV	2312 V	Pulse HV	1704 V
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