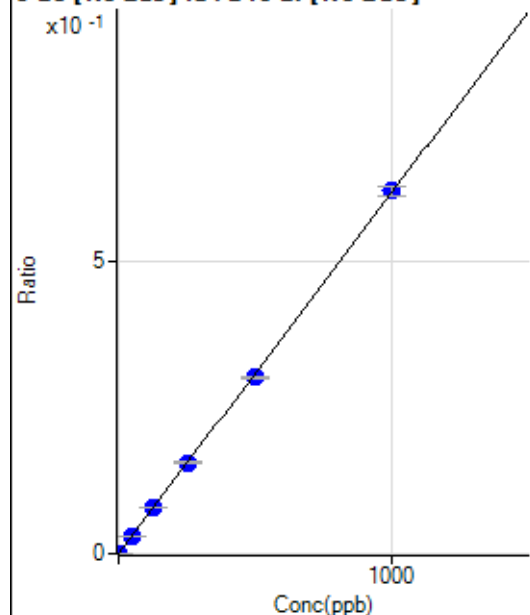


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8010421MS.b\
Analysis File: P8010421MS.batch.bin
DA Date-Time: 2021-01-04 16:10:24
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-04 12:12:03
2	004CALS.d	S02	2021-01-04 12:15:14
3	005CALS.d	S03	2021-01-04 12:18:23
4	006CALS.d	S04	2021-01-04 12:21:35
5	007CALS.d	S05	2021-01-04 12:24:38
6	008CALS.d	S06	2021-01-04 12:27:38
7	009CALS.d	S07	2021-01-04 12:30:37
8	010CALS.d	S08	2021-01-04 12:33:38

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.32	0.0001	P	4.2
2	☐	1.000	1.056	846.53	0.0007	P	2.5
3	☐	50.000	49.397	37612.82	0.0305	P	1.2
4	☐	125.000	126.665	95602.99	0.0781	P	1.6
5	☐	250.000	252.325	191059.04	0.1555	P	2.4
6	☐	500.000	488.259	386431.02	0.3008	P	1.5
7	☐	1000.000	1005.111	776771.65	0.6193	P	2.8
8	☐			770.54	0.0006	P	10.1

$$y = 6.1605\text{E-}004 * x + 5.7042\text{E-}005$$

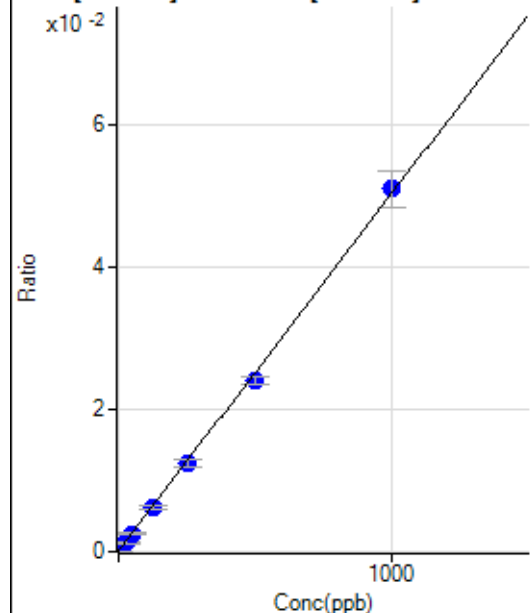
$$R = 0.9999$$

$$DL = 0.01158$$

$$BEC = 0.09259$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	151.97	0.0001	P	8.7
2	☐	25.000	22.075	1471.79	0.0012	P	10.8
3	☐	50.000	47.116	3071.06	0.0025	P	10.9
4	☐	125.000	121.114	7600.49	0.0062	P	8.0
5	☐	250.000	244.619	15224.21	0.0124	P	7.3
6	☐	500.000	476.636	30894.96	0.0240	P	5.2
7	☐	1000.000	1013.730	63886.84	0.0510	P	9.8
8	☐			9532.56	0.0076	P	9.2

$$y = 5.0169\text{E-}005 * x + 1.2511\text{E-}004$$

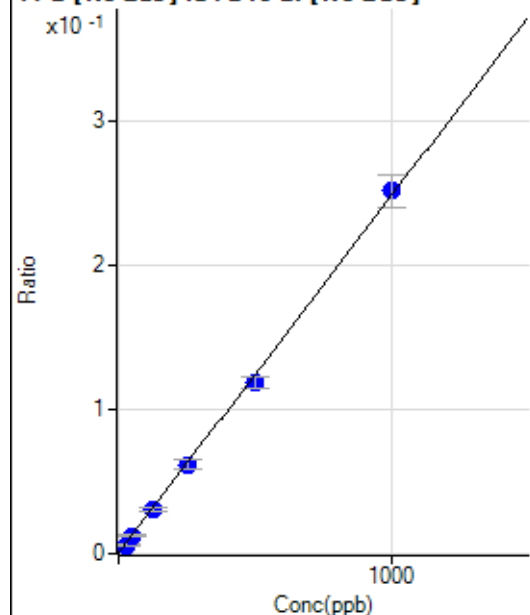
$$R = 0.9996$$

$$DL = 0.6496$$

$$BEC = 2.494$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	681.88	0.0006	P	3.0
2	☐	25.000	21.856	7132.35	0.0060	P	14.2
3	☐	50.000	47.134	15096.80	0.0122	P	10.0
4	☐	125.000	120.847	37373.98	0.0305	P	5.6
5	☐	250.000	246.962	75800.76	0.0617	P	9.5
6	☐	500.000	476.417	152424.78	0.1186	P	5.9
7	☐	1000.000	1013.292	315281.98	0.2516	P	9.2
8	☐			46232.85	0.0369	P	10.4

$$y = 2.4773\text{E-}004 * x + 5.6095\text{E-}004$$

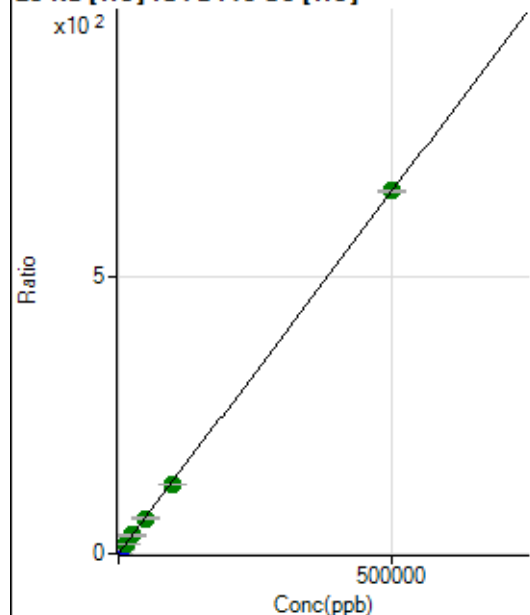
$$R = 0.9996$$

$$DL = 0.2036$$

$$BEC = 2.264$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36426.59	0.3747	P	6.3
2	☐	500.000	464.118	100380.02	0.9813	P	1.4
3	☐	5000.000	4953.213	711697.59	6.8489	P	1.4
4	☐	12500.000	12423.105	1712601.43	16.6125	A	1.1
5	☐	25000.000	25080.420	3426374.51	33.1564	A	1.5
6	☐	50000.000	48768.403	6649998.24	64.1180	A	2.8
7	☐	100000.00	95559.309	13572885.89	125.2766	A	0.3
8	☐	500000.00	501009.70	69148246.68	655.2250	A	0.4

$$y = 0.0013 * x + 0.3747$$

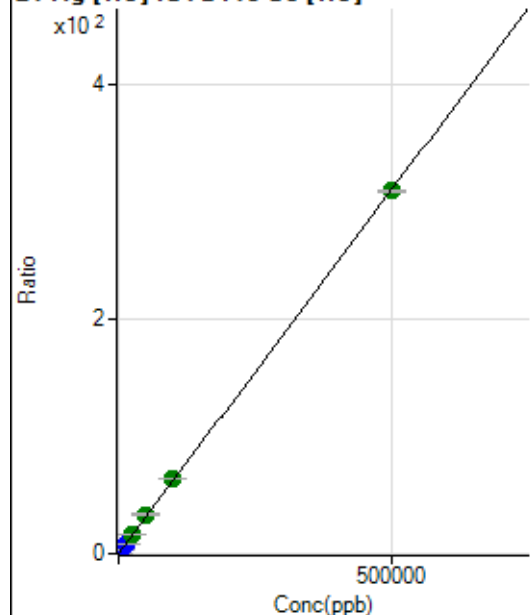
$$R = 1.0000$$

$$DL = 54.27$$

$$BEC = 286.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	869.49	0.0089	P	6.0
2	☐	500.000	515.681	33558.68	0.3281	P	0.2
3	☐	5000.000	5366.479	346059.84	3.3302	P	1.2
4	☐	12500.000	13711.059	875712.26	8.4946	P	1.2
5	☐	25000.000	27340.412	1749526.67	16.9296	A	1.5
6	☐	50000.000	53521.683	3435944.83	33.1329	A	3.2
7	☐	100000.00	103523.07	6942177.59	64.0782	A	1.3
8	☐	500000.00	498792.23	32578989.96	308.7059	A	0.2

$$y = 6.1889\text{E-}004 * x + 0.0089$$

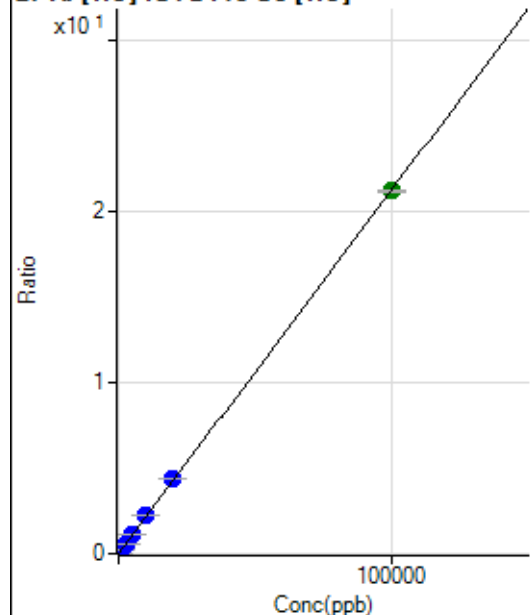
R = 1.0000

DL = 2.606

BEC = 14.45

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	364.96	0.0038	P	7.6
2	☐	20.000	20.421	827.42	0.0081	P	3.1
3	☐	1000.000	1040.109	23323.59	0.2244	P	0.6
4	☐	2500.000	2656.366	58494.10	0.5674	P	0.0
5	☐	5000.000	5345.138	117587.90	1.1378	P	0.9
6	☐	10000.000	10528.291	232052.95	2.2376	P	3.0
7	☐	20000.000	20612.487	474231.25	4.3771	P	0.5
8	☐	100000.00	99803.106	2235095.33	21.1792	A	0.6

$$y = 2.1217\text{E-}004 * x + 0.0038$$

R = 1.0000

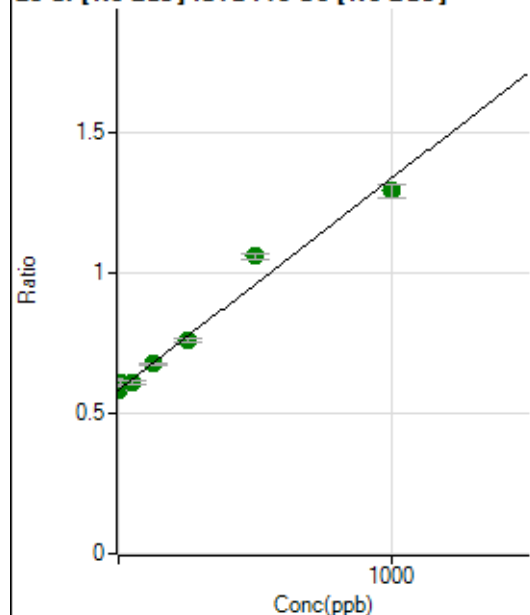
DL = 4.029

BEC = 17.7

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1536540.19	0.5829	A	1.7
2	☐	10.000	32.362	1576490.45	0.6072	A	5.1
3	☐	50.000	34.188	1658058.88	0.6086	A	1.7
4	☐	125.000	123.748	1813166.90	0.6760	A	1.2
5	☐	250.000	231.757	2055395.36	0.7573	A	1.5
6	☐	500.000	630.469	2975815.30	1.0573	A	1.9
7	☐	1000.000	940.049	3606268.48	1.2902	A	3.8
8	☐			2608080.55	0.9468	A	8.7

$$y = 7.5244\text{E-}004 * x + 0.5829$$

$$R = 0.9866$$

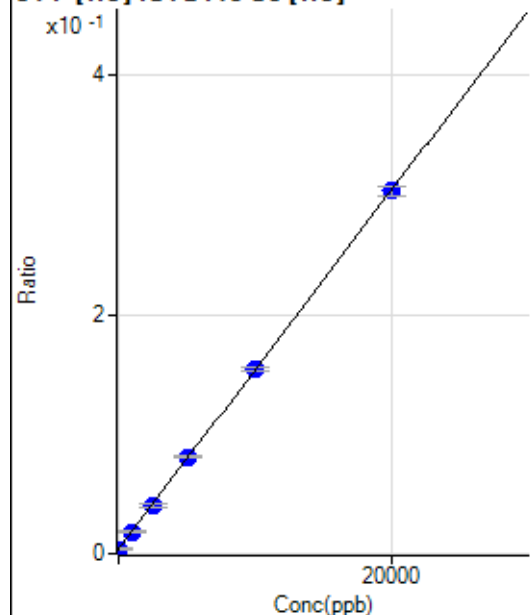
$$DL = 39.21$$

$$BEC = 774.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	2.958	388.91	0.0040	P	16.1
2	☐	0.000	-2.958	397.24	0.0039	P	8.9
3	☐	1000.000	948.354	1886.28	0.0182	P	7.3
4	☐	2500.000	2441.422	4181.27	0.0406	P	6.7
5	☐	5000.000	5116.213	8338.73	0.0807	P	2.4
6	☐	10000.000	10041.405	16036.98	0.1546	P	2.1
7	☐	20000.000	19960.149	32871.04	0.3034	P	2.5
8	☐			341.68	0.0032	P	8.3

$$y = 1.5005\text{E-}005 * x + 0.0039$$

$$R = 1.0000$$

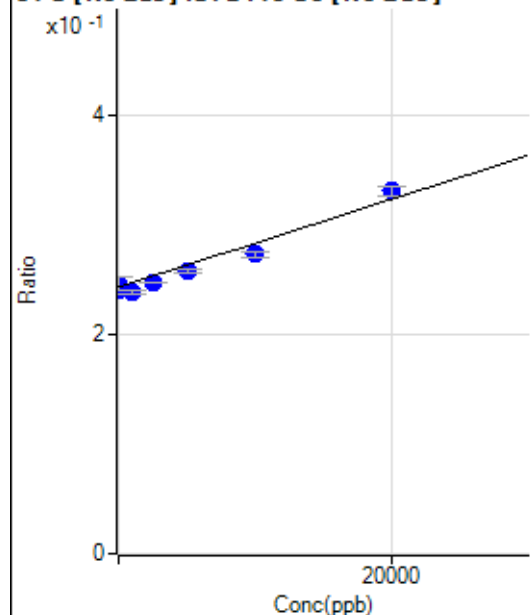
$$DL = 98.69$$

$$BEC = 261.8$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-609.538	633877.94	0.2404	P	0.5
2	☐	0.000	609.538	636925.38	0.2453	P	4.9
3	☐	1000.000	-1148.204	649134.09	0.2383	P	1.9
4	☐	2500.000	1023.979	662461.27	0.2470	P	0.5
5	☐	5000.000	3677.375	699134.91	0.2576	P	1.5
6	☐	10000.000	7492.634	767679.22	0.2729	P	2.1
7	☐	20000.000	21876.252	923641.40	0.3304	P	2.9
8	☐			588083.74	0.2134	P	2.2

$$y = 4.0014\text{E-}006 * x + 0.2429$$

$$R = 0.9851$$

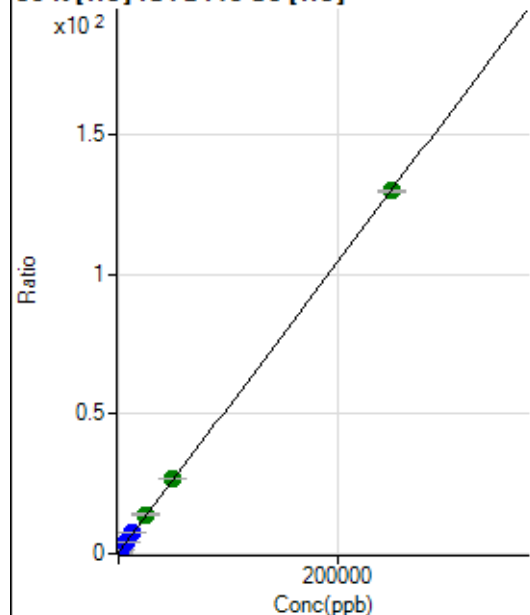
$$DL = 5027$$

$$BEC = 6.07\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32219.86	0.3316	P	7.4
2	☐	500.000	465.106	58611.18	0.5730	P	1.3
3	☐	2500.000	2595.972	174496.33	1.6791	P	0.9
4	☐	6250.000	6698.128	392641.05	3.8085	P	1.2
5	☐	12500.000	13635.939	765762.78	7.4099	P	0.8
6	☐	25000.000	26389.221	1455159.41	14.0301	A	2.8
7	☐	50000.000	51420.098	2927722.03	27.0234	A	1.0
8	☐	250000.00	249508.16	13703430.17	129.8497	A	0.5

$$y = 5.1909\text{E-}004 * x + 0.3316$$

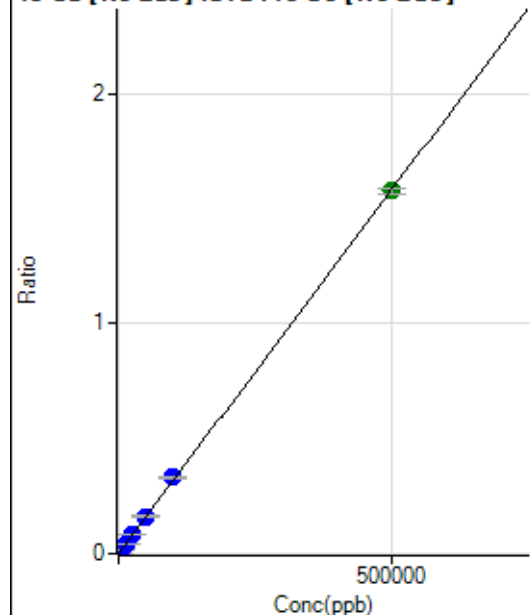
$$R = 1.0000$$

$$DL = 141.1$$

$$BEC = 638.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	515.37	0.0002	P	5.4
2	☐	500.000	507.049	4666.02	0.0018	P	7.6
3	☐	5000.000	5045.331	43974.90	0.0161	P	0.7
4	☐	12500.000	12945.666	110259.87	0.0411	P	0.2
5	☐	25000.000	25929.665	222934.10	0.0821	P	1.4
6	☐	50000.000	51039.098	454346.93	0.1615	P	1.9
7	☐	100000.00	104585.05	924402.10	0.3307	P	3.2
8	☐	500000.00	498920.99	4346416.65	1.5768	A	1.9

$$y = 3.1601\text{E-}006 * x + 1.9552\text{E-}004$$

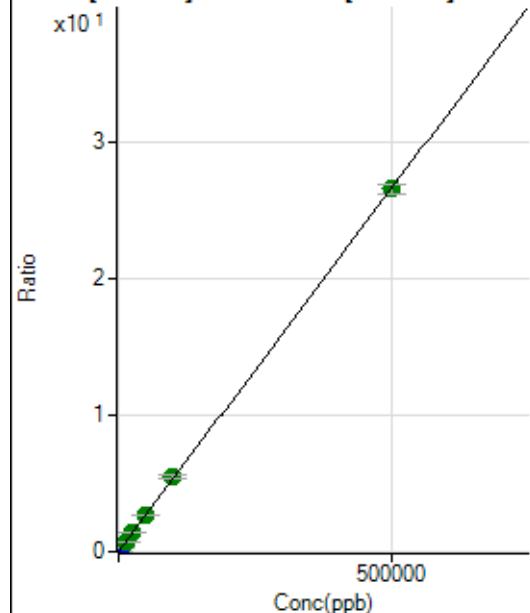
$$R = 1.0000$$

$$DL = 9.951$$

$$BEC = 61.87$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	29472.21	0.0112	P	1.3
2	☐	500.000	515.862	100142.91	0.0386	P	6.3
3	☐	5000.000	5070.682	764496.23	0.2806	P	0.9
4	☐	12500.000	13035.662	1887703.10	0.7037	A	1.2
5	☐	25000.000	25806.561	3751658.47	1.3822	A	1.8
6	☐	50000.000	50629.908	7601611.90	2.7011	A	0.1
7	☐	100000.00	103039.02	15333890.16	5.4855	A	3.4
8	☐	500000.00	499274.76	73139852.63	26.5368	A	2.5

$$y = 5.3128\text{E-}005 * x + 0.0112$$

$$R = 1.0000$$

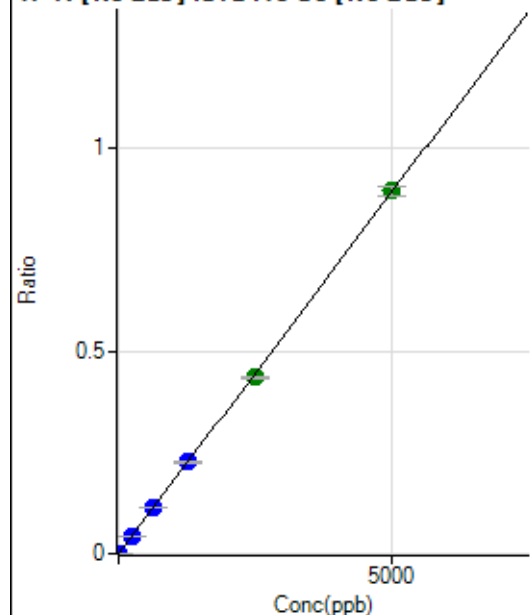
$$DL = 8.474$$

$$BEC = 210.4$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	341.68	0.0001	P	10.0
2	☐	5.000	5.261	2780.91	0.0011	P	5.8
3	☐	250.000	247.850	120714.00	0.0443	P	1.9
4	☐	625.000	638.663	305717.11	0.1140	P	1.3
5	☐	1250.000	1273.026	616242.29	0.2270	P	1.5
6	☐	2500.000	2437.320	1222700.99	0.4346	A	2.0
7	☐	5000.000	5023.983	2503773.49	0.8957	A	2.8
8	☐			1505.68	0.0005	P	11.4

$$y = 1.7825E-004 * x + 1.2954E-004$$

$$R = 0.9999$$

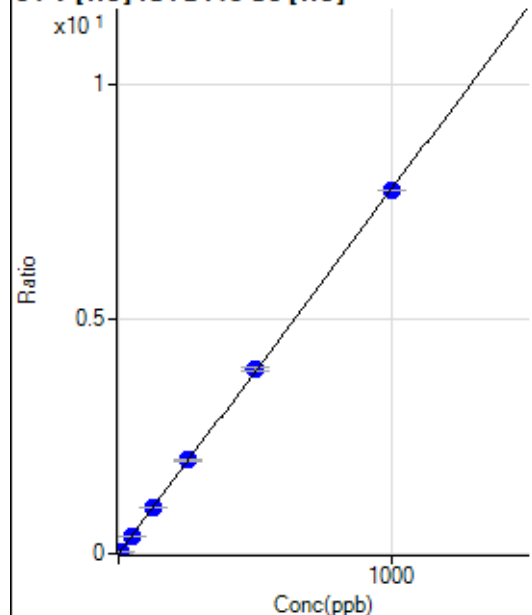
$$DL = 0.2174$$

$$BEC = 0.7267$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	10.00	0.0001	P	28.0
2	☐	5.000	4.903	3902.80	0.0382	P	3.2
3	☐	50.000	48.852	39408.61	0.3792	P	1.9
4	☐	125.000	126.414	101154.23	0.9811	P	0.2
5	☐	250.000	256.001	205316.30	1.9868	P	1.2
6	☐	500.000	505.526	406925.85	3.9232	P	2.4
7	☐	1000.000	995.618	837126.41	7.7266	P	0.1
8	☐			212.22	0.0020	P	4.7

$$y = 0.0078 * x + 1.0145E-004$$

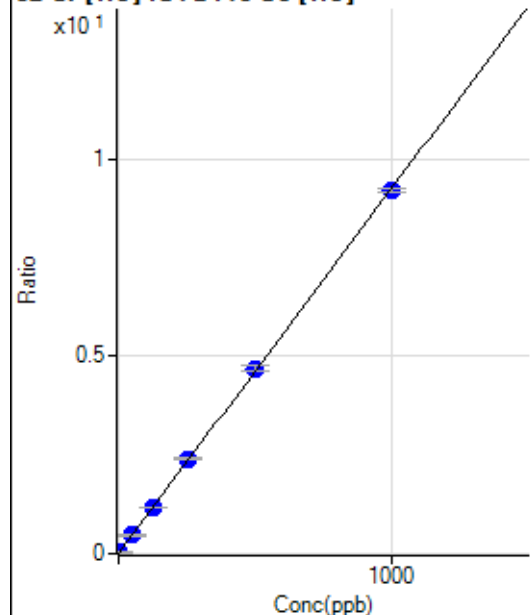
$$R = 1.0000$$

$$DL = 0.01097$$

$$BEC = 0.01307$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	594.46	0.0061	P	4.5
2	☐	2.000	1.986	2503.58	0.0245	P	3.7
3	☐	50.000	49.435	48149.57	0.4634	P	1.3
4	☐	125.000	127.037	121770.55	1.1811	P	0.4
5	☐	250.000	259.470	248647.65	2.4061	P	1.3
6	☐	500.000	507.425	487374.07	4.6995	P	3.0
7	☐	1000.000	993.694	996433.49	9.1973	P	1.1
8	☐			4037.28	0.0383	P	4.7

$$y = 0.0092 * x + 0.0061$$

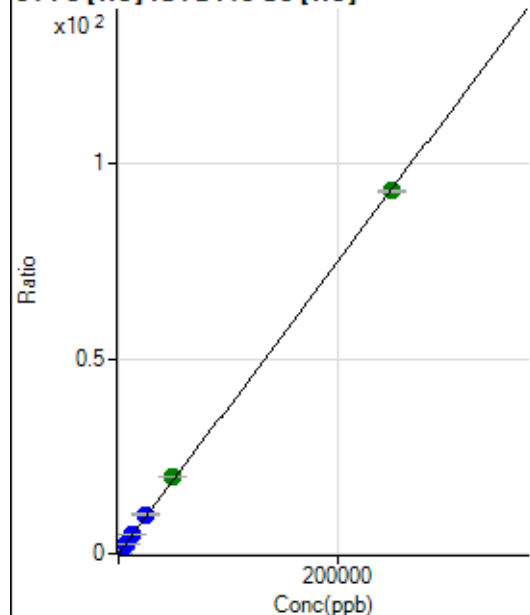
$$R = 0.9999$$

$$DL = 0.08882$$

$$BEC = 0.6602$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	407.42	0.0042	P	20.8
2	☐	50.000	53.638	2474.33	0.0242	P	3.2
3	☐	2500.000	2638.106	102684.20	0.9882	P	2.7
4	☐	6250.000	6725.573	259069.69	2.5129	P	0.5
5	☐	12500.000	13668.282	527344.55	5.1026	P	0.4
6	☐	25000.000	26733.080	1034610.29	9.9760	P	2.9
7	☐	50000.000	52915.595	2138896.26	19.7425	A	1.3
8	☐	250000.00	249171.88	9809430.31	92.9489	A	0.6

$$y = 3.7301E-004 * x + 0.0042$$

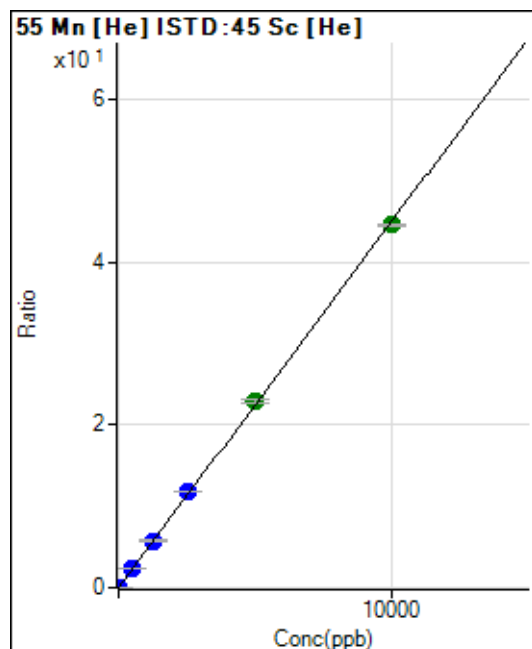
$$R = 0.9999$$

$$DL = 6.986$$

$$BEC = 11.21$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	94.45	0.0010	P	8.7
2	☐	1.000	1.059	586.69	0.0057	P	8.4
3	☐	500.000	504.899	236350.81	2.2744	P	1.3
4	☐	1250.000	1285.682	596916.26	5.7901	P	0.9
5	☐	2500.000	2622.050	1220196.45	11.8075	P	1.2
6	☐	5000.000	5103.960	2383712.34	22.9830	A	2.8
7	☐	10000.000	9912.802	4836002.50	44.6361	A	0.4
8	☐			3149.31	0.0298	P	6.8

$$y = 0.0045 * x + 9.6595E-004$$

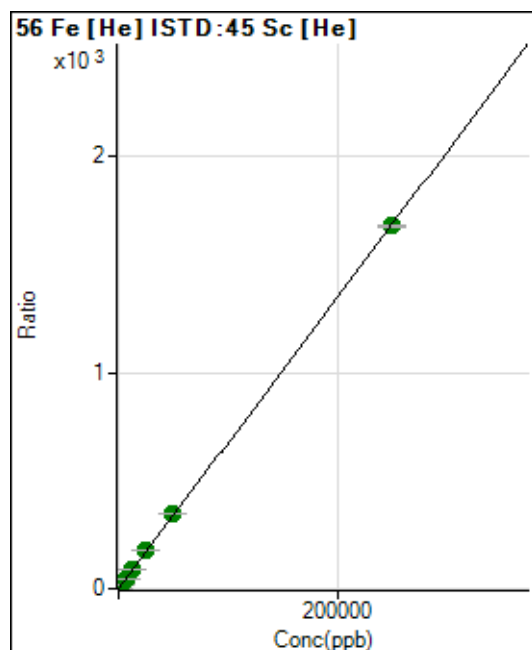
$$R = 0.9998$$

$$DL = 0.05606$$

$$BEC = 0.2145$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2798.47	0.0288	P	5.1
2	☐	50.000	51.003	38080.67	0.3723	P	1.5
3	☐	2500.000	2648.548	1856663.31	17.8686	A	2.7
4	☐	6250.000	6602.885	4587938.82	44.5038	A	1.1
5	☐	12500.000	13370.405	9309936.78	90.0877	A	1.2
6	☐	25000.000	26375.049	18428645.55	177.6830	A	2.6
7	☐	50000.000	51708.289	37737711.95	348.3199	A	0.7
8	☐	250000.00	249467.00	177334133.5	1,680.361	A	0.6

$$y = 0.0067 * x + 0.0288$$

$$R = 1.0000$$

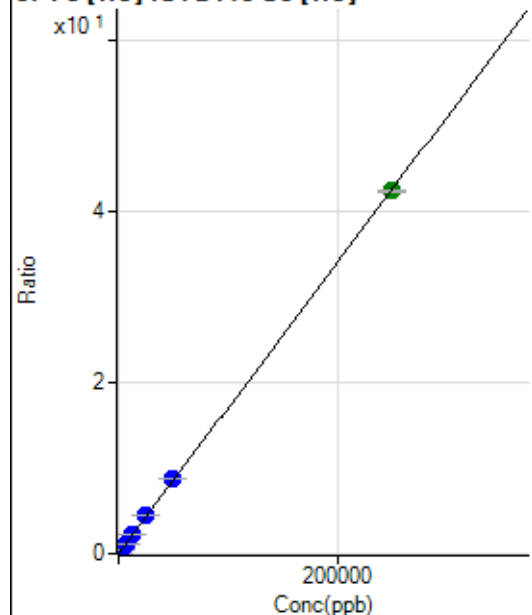
$$DL = 0.6534$$

$$BEC = 4.269$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	140.75	0.0014	P	5.8
2	☐	50.000	49.441	1005.60	0.0098	P	3.8
3	☐	2500.000	2579.432	45645.33	0.4392	P	1.8
4	☐	6250.000	6606.386	115750.59	1.1227	P	0.3
5	☐	12500.000	13337.868	234096.68	2.2653	P	1.0
6	☐	25000.000	26275.630	462641.34	4.4612	P	3.2
7	☐	50000.000	51277.421	943092.94	8.7047	P	0.5
8	☐	250000.00	249565.35	4470484.45	42.3600	A	0.4

$$y = 1.6973\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

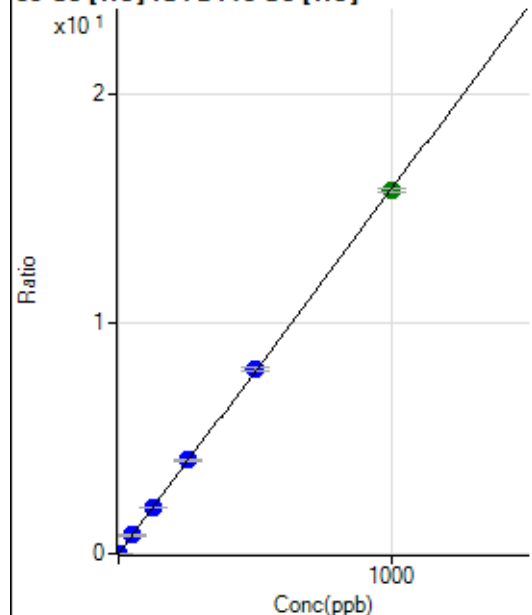
$$DL = 1.477$$

$$BEC = 8.486$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	34.45	0.0004	P	25.4
2	☐	1.000	0.986	1635.67	0.0160	P	4.4
3	☐	50.000	50.081	82592.12	0.7948	P	1.8
4	☐	125.000	127.733	208923.76	2.0266	P	1.2
5	☐	250.000	256.884	421146.79	4.0753	P	1.3
6	☐	500.000	505.865	832314.32	8.0250	P	2.6
7	☐	1000.000	995.001	1710061.56	15.7842	A	1.1
8	☐			2641.38	0.0250	P	3.1

$$y = 0.0159 * x + 3.5670\text{E-}004$$

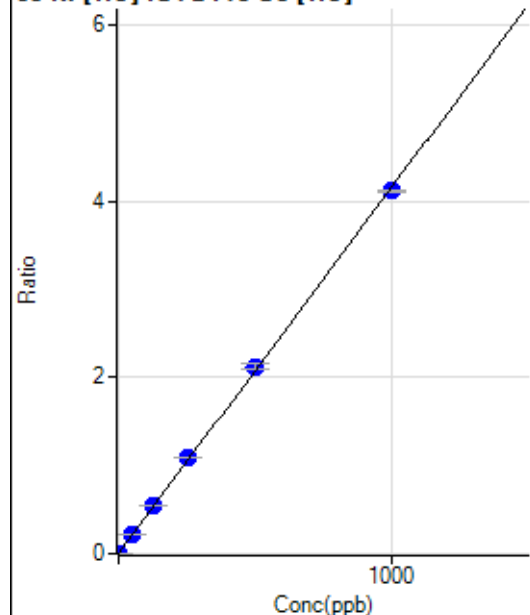
$$R = 0.9999$$

$$DL = 0.01715$$

$$BEC = 0.02249$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	235.56	0.0024	P	12.7
2	☐	1.000	1.002	674.47	0.0066	P	15.0
3	☐	50.000	51.154	22354.30	0.2151	P	1.1
4	☐	125.000	129.442	55729.73	0.5406	P	1.5
5	☐	250.000	262.746	113141.14	1.0948	P	1.0
6	☐	500.000	510.470	220370.75	2.1248	P	3.0
7	☐	1000.000	990.965	446645.81	4.1225	P	0.2
8	☐			1368.97	0.0130	P	2.3

$$y = 0.0042 * x + 0.0024$$

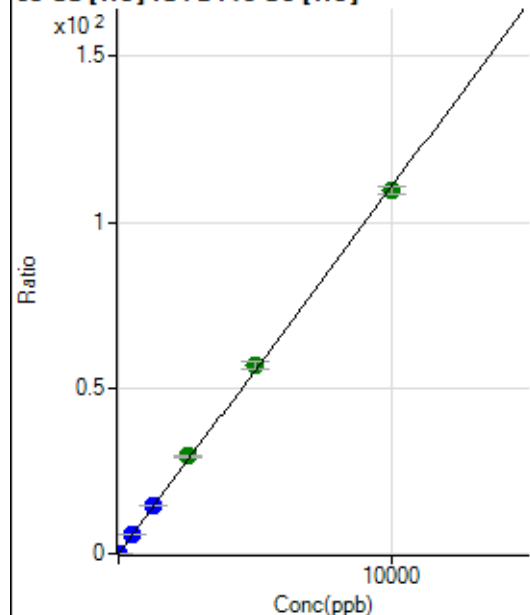
$$R = 0.9998$$

$$DL = 0.2218$$

$$BEC = 0.5845$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	744.47	0.0077	P	12.3
2	☐	2.000	2.232	3312.64	0.0324	P	3.1
3	☐	500.000	510.884	588389.66	5.6621	P	1.4
4	☐	1250.000	1306.939	1492030.83	14.4728	P	1.0
5	☐	2500.000	2648.523	3030268.53	29.3214	A	0.4
6	☐	5000.000	5138.527	5898095.54	56.8807	A	3.6
7	☐	10000.000	9885.944	11854607.88	109.4249	A	2.1
8	☐			7345.33	0.0696	P	6.1

$$y = 0.0111 * x + 0.0077$$

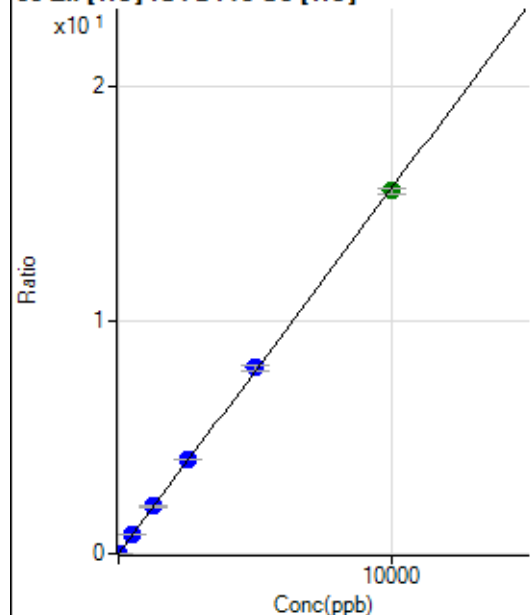
$$R = 0.9997$$

$$DL = 0.257$$

$$BEC = 0.6938$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	158.89	0.0016	P	13.5
2	☐	2.000	2.221	522.24	0.0051	P	4.8
3	☐	500.000	504.003	82147.41	0.7905	P	1.4
4	☐	1250.000	1289.470	208239.23	2.0199	P	1.1
5	☐	2500.000	2589.549	419037.51	4.0549	P	1.1
6	☐	5000.000	5081.203	824967.59	7.9549	P	3.1
7	☐	10000.000	9931.877	1684368.66	15.5473	A	1.5
8	☐			1646.78	0.0156	P	5.2

$$y = 0.0016 * x + 0.0016$$

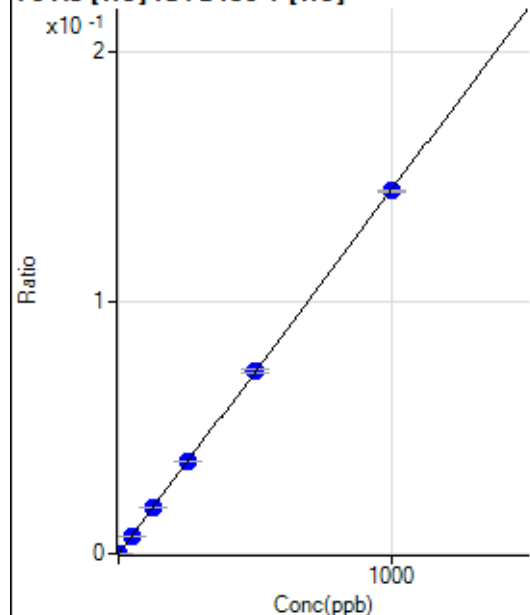
$$R = 0.9999$$

$$DL = 0.4235$$

$$BEC = 1.042$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.33	0.0000	P	38.2
2	☐	1.000	0.939	121.35	0.0001	P	18.6
3	☐	50.000	49.444	6172.65	0.0072	P	0.4
4	☐	125.000	126.163	15593.15	0.0183	P	1.5
5	☐	250.000	254.027	31582.28	0.0368	P	0.4
6	☐	500.000	503.424	62473.93	0.0729	P	2.5
7	☐	1000.000	997.164	128142.33	0.1444	P	0.2
8	☐			71.68	0.0001	P	21.2

$$y = 1.4483E-004 * x + 7.9831E-006$$

$$R = 1.0000$$

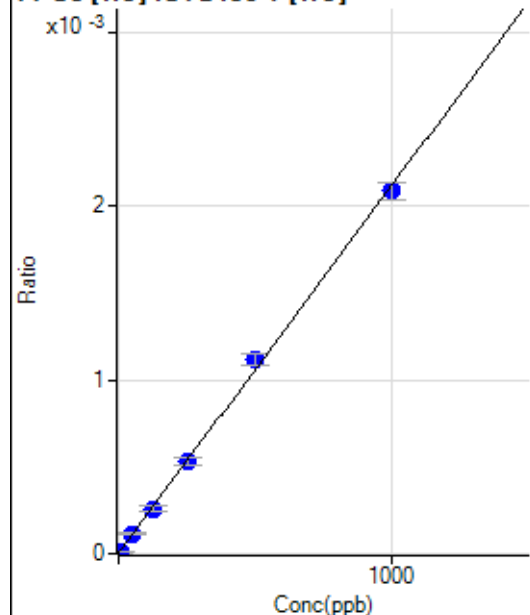
$$DL = 0.06309$$

$$BEC = 0.05512$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	173.2
2	☐	5.000	4.191	10.00	0.0000	P	33.5
3	☐	50.000	52.296	97.78	0.0001	P	6.9
4	☐	125.000	119.985	218.89	0.0003	P	11.8
5	☐	250.000	251.554	458.90	0.0005	P	7.6
6	☐	500.000	527.928	958.93	0.0011	P	6.6
7	☐	1000.000	986.164	1852.36	0.0021	P	5.1
8	☐			3.33	0.0000	P	99.9

$$y = 2.1140\text{E-}006 * x + 2.9969\text{E-}006$$

$$R = 0.9994$$

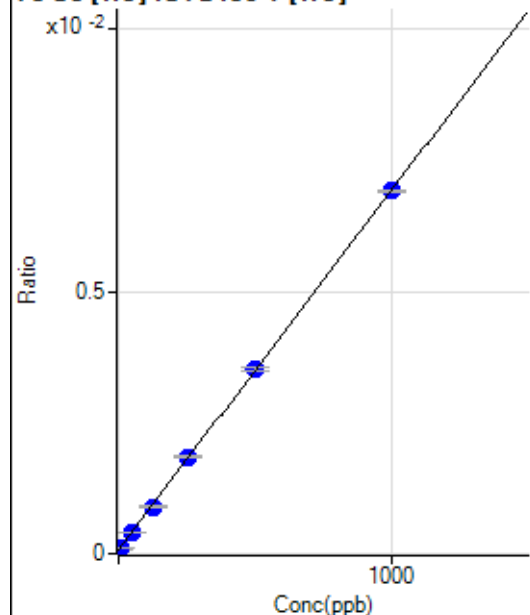
$$DL = 7.366$$

$$BEC = 1.418$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.34	0.0001	P	8.7
2	☐	5.000	3.470	84.34	0.0001	P	16.3
3	☐	50.000	46.543	340.37	0.0004	P	3.8
4	☐	125.000	119.931	766.43	0.0009	P	3.2
5	☐	250.000	258.873	1588.92	0.0019	P	3.4
6	☐	500.000	500.634	3006.96	0.0035	P	1.8
7	☐	1000.000	998.279	6140.96	0.0069	P	0.9
8	☐			58.68	0.0001	P	3.7

$$y = 6.8570\text{E-}006 * x + 7.6096\text{E-}005$$

$$R = 0.9999$$

$$DL = 2.884$$

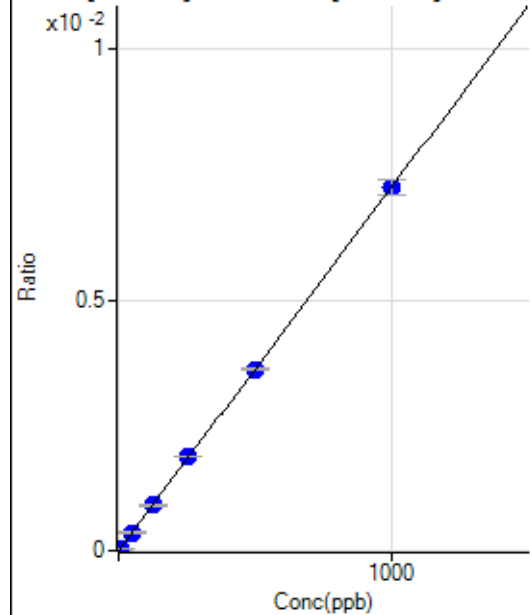
$$BEC = 11.1$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3934.62		P	2.0
2	☐			3734.36		P	3.6
3	☐			3954.64		P	2.7
4	☐			3941.29		P	3.4
5	☐			3694.31		P	9.6
6	☐			3927.94		P	4.2
7	☐			4265.06		P	4.9
8	☐			4438.63		P	2.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-4.58	0.0000	P	-2038.
2	☐	5.000	5.905	300.94	0.0000	P	9.3
3	☐	50.000	49.408	2724.50	0.0004	P	3.5
4	☐	125.000	124.646	6790.88	0.0009	P	1.8
5	☐	250.000	257.770	13909.19	0.0019	P	0.8
6	☐	500.000	499.882	28094.32	0.0036	P	0.6
7	☐	1000.000	998.186	56491.20	0.0072	P	4.1
8	☐			48.06	0.0000	P	54.2

$$y = 7.2472E-006 * x - 7.2073E-007$$

$$R = 1.0000$$

$$DL = 6.083$$

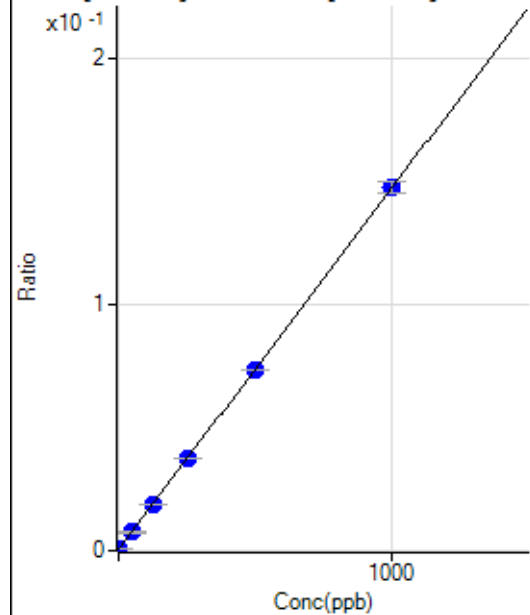
$$BEC = -0.09945$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1947.94		P	5.1
2	☐			1926.82		P	0.6
3	☐			1922.37		P	4.5
4	☐			1935.71		P	1.0
5	☐			1907.93		P	6.3
6	☐			1853.48		P	2.9
7	☐			1999.05		P	2.0
8	☐			1951.27		P	2.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3153.22	0.0004	P	2.4
2	☐	1.000	1.096	4242.44	0.0006	P	7.1
3	☐	50.000	47.887	56955.66	0.0075	P	1.9
4	☐	125.000	123.352	139682.55	0.0186	P	0.4
5	☐	250.000	251.888	279018.43	0.0375	P	0.6
6	☐	500.000	496.498	569471.99	0.0734	P	0.5
7	☐	1000.000	1001.591	1153437.08	0.1477	P	3.2
8	☐			9725.84	0.0013	P	3.8

$$y = 1.4700\text{E-}004 * x + 4.3172\text{E-}004$$

$$R = 1.0000$$

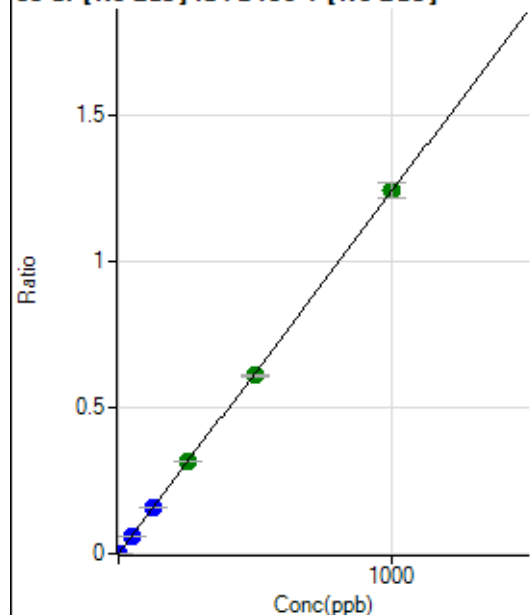
$$DL = 0.2124$$

$$BEC = 2.937$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	155.56	0.0000	P	26.9
2	☐	1.000	1.006	9058.71	0.0013	P	8.7
3	☐	50.000	49.631	468259.64	0.0614	P	0.6
4	☐	125.000	127.917	1190834.23	0.1583	P	1.8
5	☐	250.000	257.236	2370821.52	0.3183	A	0.2
6	☐	500.000	491.789	4719855.92	0.6085	A	0.5
7	☐	1000.000	1001.950	9681945.96	1.2397	A	4.3
8	☐			55463.78	0.0073	P	0.9

$$y = 0.0012 * x + 2.1319E-005$$

$$R = 0.9999$$

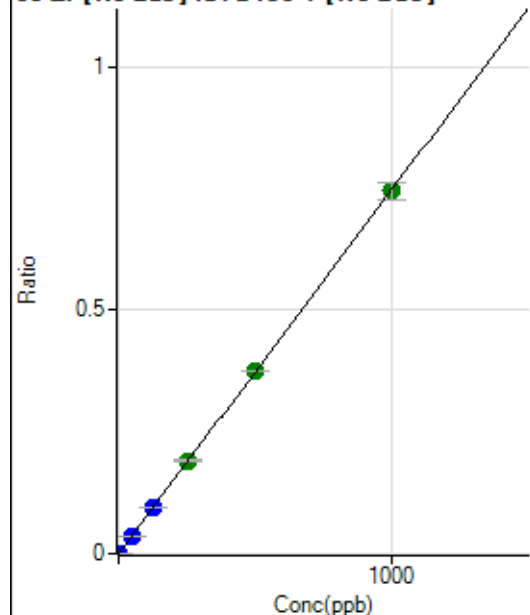
$$DL = 0.0139$$

$$BEC = 0.01723$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	350.02	0.0000	P	10.8
2	☐	1.000	1.031	5859.76	0.0008	P	2.8
3	☐	50.000	49.161	280081.40	0.0367	P	0.5
4	☐	125.000	127.455	716196.39	0.0952	P	1.1
5	☐	250.000	255.368	1420139.54	0.1907	A	1.1
6	☐	500.000	501.226	2902328.04	0.3742	A	0.4
7	☐	1000.000	997.780	5816584.12	0.7448	A	4.5
8	☐			3972.93	0.0005	P	11.6

$$y = 7.4644E-004 * x + 4.7941E-005$$

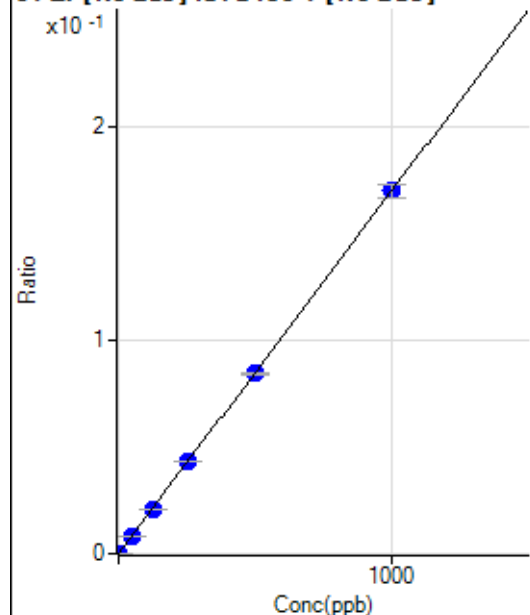
$$R = 1.0000$$

$$DL = 0.02087$$

$$BEC = 0.06423$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	99.9
2	☐	1.000	1.018	1269.54	0.0002	P	13.5
3	☐	50.000	47.639	61820.87	0.0081	P	1.4
4	☐	125.000	123.908	158688.48	0.0211	P	1.1
5	☐	250.000	253.481	321294.00	0.0431	P	1.0
6	☐	500.000	496.980	655933.66	0.0846	P	0.9
7	☐	1000.000	1000.894	1330211.17	0.1703	P	3.7
8	☐			969.52	0.0001	P	26.4

$$y = 1.7016E-004 * x + 4.5372E-006$$

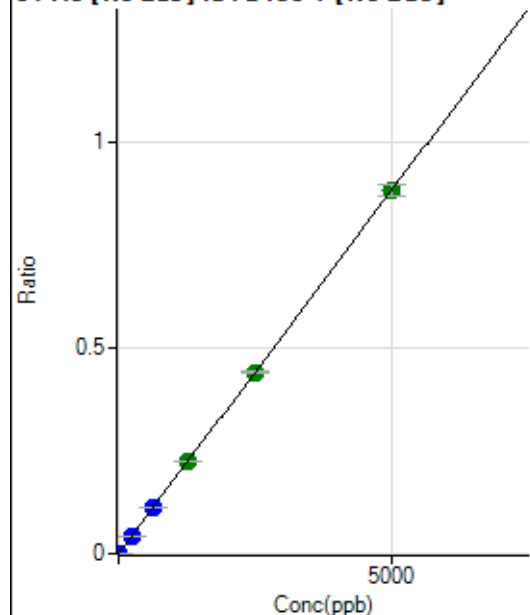
$$R = 1.0000$$

$$DL = 0.07995$$

$$BEC = 0.02667$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	125.00	0.0000	P	28.6
2	☐	5.000	4.932	6348.84	0.0009	P	3.8
3	☐	250.000	245.376	329611.06	0.0432	P	0.9
4	☐	625.000	637.005	844349.33	0.1122	P	0.7
5	☐	1250.000	1275.206	1673220.02	0.2246	A	1.3
6	☐	2500.000	2495.576	3409671.04	0.4396	A	1.0
7	☐	5000.000	4994.641	6872221.68	0.8798	A	3.1
8	☐			4281.38	0.0006	P	14.3

$$y = 1.7615E-004 * x + 1.7099E-005$$

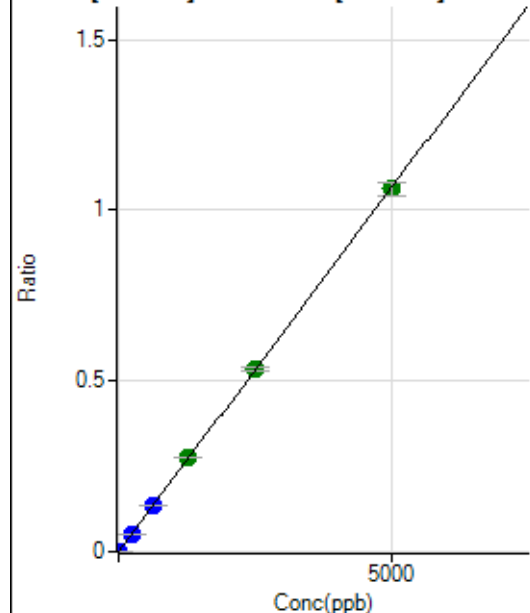
$$R = 1.0000$$

$$DL = 0.08315$$

$$BEC = 0.09707$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	75.2
2	☐	5.000	5.092	7807.97	0.0011	P	2.4
3	☐	250.000	249.367	405101.05	0.0531	P	0.8
4	☐	625.000	638.345	1023397.74	0.1360	P	1.7
5	☐	1250.000	1291.761	2050386.59	0.2753	A	0.9
6	☐	2500.000	2509.061	4147156.08	0.5347	A	1.3
7	☐	5000.000	4983.393	8294944.80	1.0620	A	3.6
8	☐			4726.01	0.0006	P	8.9

$$y = 2.1310\text{E-}004 * x + 3.7893\text{E-}006$$

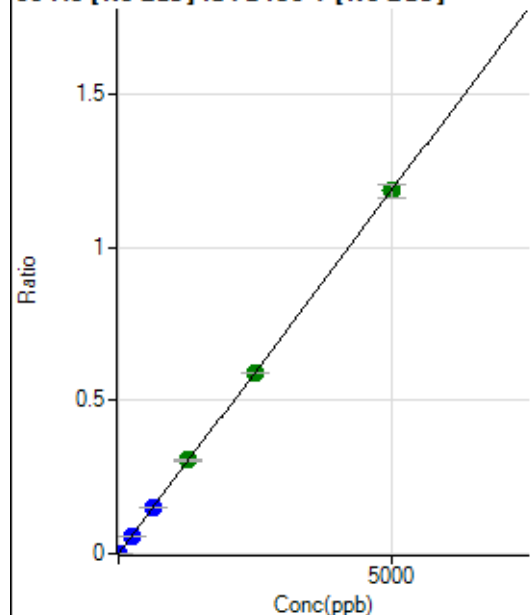
$$R = 1.0000$$

$$DL = 0.04012$$

$$BEC = 0.01778$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	69.45	0.0000	P	30.0
2	☐	5.000	5.267	8997.60	0.0013	P	9.0
3	☐	250.000	247.100	446623.01	0.0586	P	0.6
4	☐	625.000	638.694	1139097.67	0.1514	P	2.3
5	☐	1250.000	1284.944	2269010.66	0.3046	A	0.4
6	☐	2500.000	2490.556	4579739.77	0.5904	A	0.3
7	☐	5000.000	4994.419	9247333.37	1.1840	A	4.0
8	☐			6004.29	0.0008	P	8.7

$$y = 2.3707\text{E-}004 * x + 9.5084\text{E-}006$$

$$R = 1.0000$$

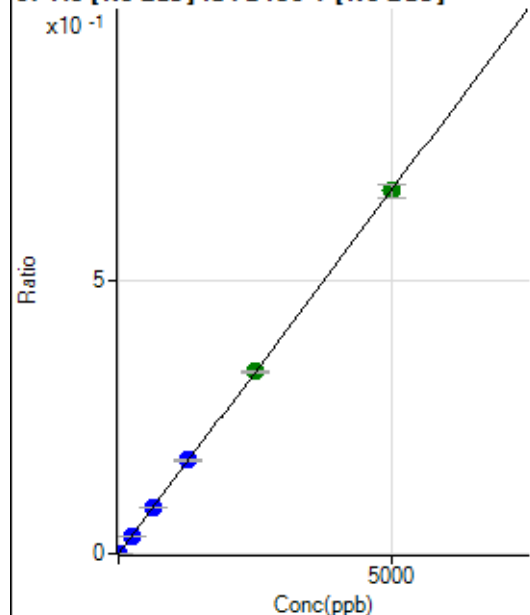
$$DL = 0.03613$$

$$BEC = 0.04011$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	107.9
2	☐	5.000	4.985	4770.39	0.0007	P	7.5
3	☐	250.000	245.358	249143.46	0.0327	P	0.6
4	☐	625.000	630.635	632020.54	0.0840	P	1.1
5	☐	1250.000	1284.672	1274637.66	0.1711	P	1.3
6	☐	2500.000	2500.289	2583358.00	0.3331	A	0.7
7	☐	5000.000	4990.715	5192330.41	0.6648	A	3.7
8	☐			2867.05	0.0004	P	7.6

$$y = 1.3321\text{E-}004 * x + 2.6488\text{E-}006$$

$$R = 1.0000$$

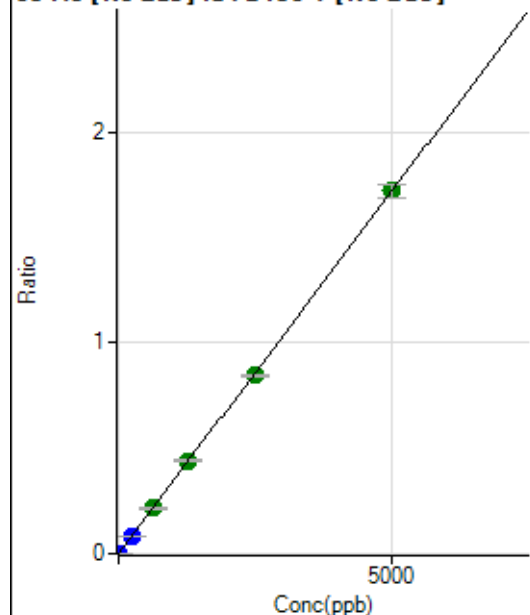
$$DL = 0.06437$$

$$BEC = 0.01988$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	16.7
2	☐	5.000	5.171	12731.16	0.0018	P	6.2
3	☐	250.000	246.812	645688.24	0.0847	P	0.5
4	☐	625.000	626.850	1618517.07	0.2151	A	1.3
5	☐	1250.000	1283.323	3280390.55	0.4404	A	1.5
6	☐	2500.000	2463.691	6557944.07	0.8455	A	0.7
7	☐	5000.000	5009.752	13428107.25	1.7193	A	3.6
8	☐			7552.31	0.0010	P	8.0

$$y = 3.4318\text{E-}004 * x + 3.8008\text{E-}006$$

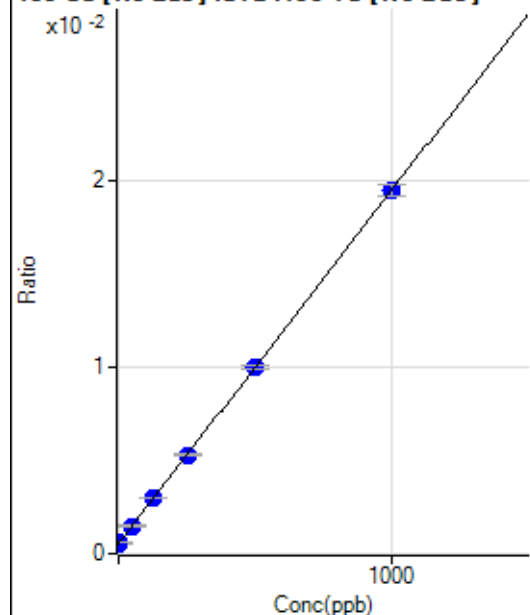
$$R = 0.9999$$

$$DL = 0.005557$$

$$BEC = 0.01108$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2278.03	0.0005	P	1.5
2	☐	1.000	2.600	2461.39	0.0006	P	7.3
3	☐	50.000	48.340	6423.89	0.0015	P	6.6
4	☐	125.000	129.355	12750.68	0.0030	P	1.4
5	☐	250.000	250.292	22630.16	0.0053	P	2.7
6	☐	500.000	501.275	44453.00	0.0100	P	1.9
7	☐	1000.000	998.826	86076.30	0.0194	P	3.0
8	☐			2419.72	0.0005	P	0.7

$$y = 1.8896E-005 * x + 5.3901E-004$$

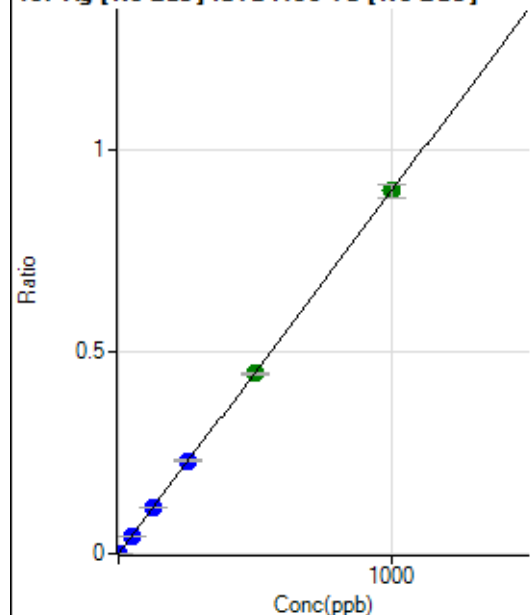
$$R = 1.0000$$

$$DL = 1.291$$

$$BEC = 28.52$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	77.78	0.0000	P	27.3
2	☐	1.000	1.015	3886.76	0.0009	P	8.1
3	☐	50.000	48.580	193344.78	0.0437	P	3.4
4	☐	125.000	127.418	489498.33	0.1145	P	0.5
5	☐	250.000	256.354	989765.44	0.2304	P	2.5
6	☐	500.000	495.886	1979067.88	0.4457	A	1.0
7	☐	1000.000	1000.237	3986096.88	0.8990	A	3.4
8	☐			2294.69	0.0005	P	5.8

$$y = 8.9880E-004 * x + 1.8411E-005$$

$$R = 1.0000$$

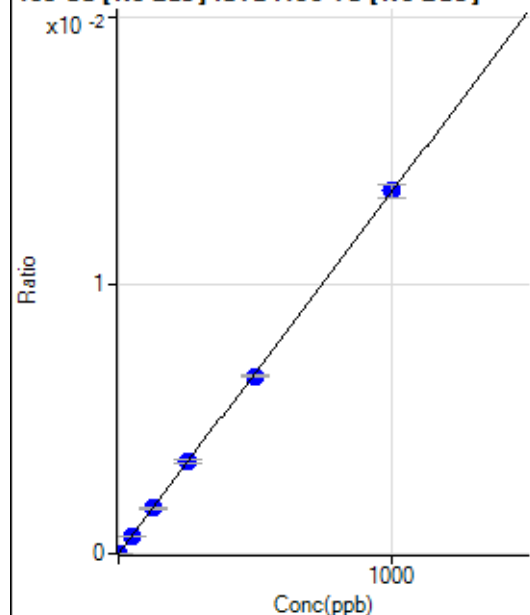
$$DL = 0.01678$$

$$BEC = 0.02048$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	18.06	0.0000	P	34.7
2	☐	1.000	1.288	90.28	0.0000	P	12.0
3	☐	50.000	48.410	2904.51	0.0007	P	2.7
4	☐	125.000	125.962	7260.35	0.0017	P	4.4
5	☐	250.000	255.568	14789.96	0.0034	P	4.3
6	☐	500.000	489.941	29295.03	0.0066	P	0.9
7	☐	1000.000	1003.596	59894.57	0.0135	P	4.0
8	☐			148.61	0.0000	P	11.0

$$y = 1.3458\text{E-}005 * x + 4.2674\text{E-}006$$

$$R = 0.9999$$

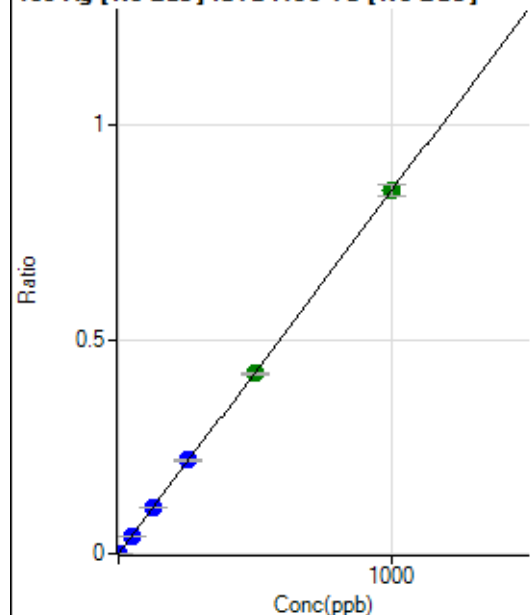
$$DL = 0.3299$$

$$BEC = 0.3171$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	66.67	0.0000	P	33.6
2	☐	1.000	0.964	3472.76	0.0008	P	8.3
3	☐	50.000	49.239	184622.35	0.0417	P	2.6
4	☐	125.000	128.681	465652.43	0.1090	P	0.7
5	☐	250.000	258.297	939497.81	0.2187	P	1.8
6	☐	500.000	495.476	1862731.12	0.4195	A	1.2
7	☐	1000.000	999.766	3753066.84	0.8465	A	3.2
8	☐			2186.34	0.0005	P	18.1

$$y = 8.4667\text{E-}004 * x + 1.5792\text{E-}005$$

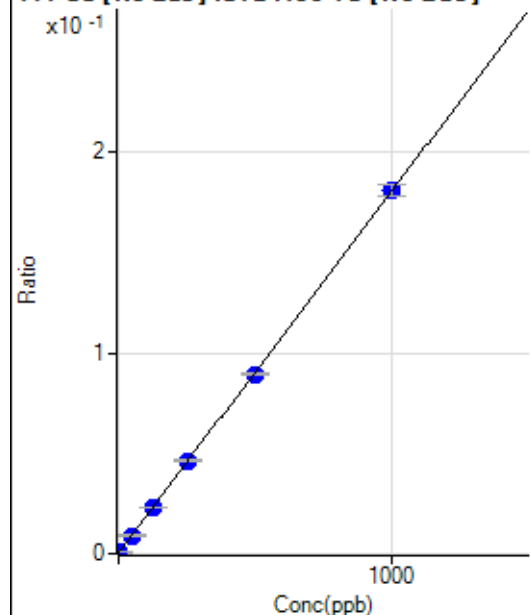
$$R = 0.9999$$

$$DL = 0.01881$$

$$BEC = 0.01865$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1595.87	0.0004	P	1.8
2	☐	1.000	1.220	2498.71	0.0006	P	2.4
3	☐	50.000	48.223	40115.08	0.0091	P	3.3
4	☐	125.000	126.800	99214.88	0.0232	P	1.1
5	☐	250.000	253.739	197931.55	0.0461	P	2.4
6	☐	500.000	494.409	397088.82	0.0894	P	0.7
7	☐	1000.000	1001.725	801682.96	0.1808	P	3.1
8	☐			2146.74	0.0005	P	2.7

$$y = 1.8012E-004 * x + 3.7760E-004$$

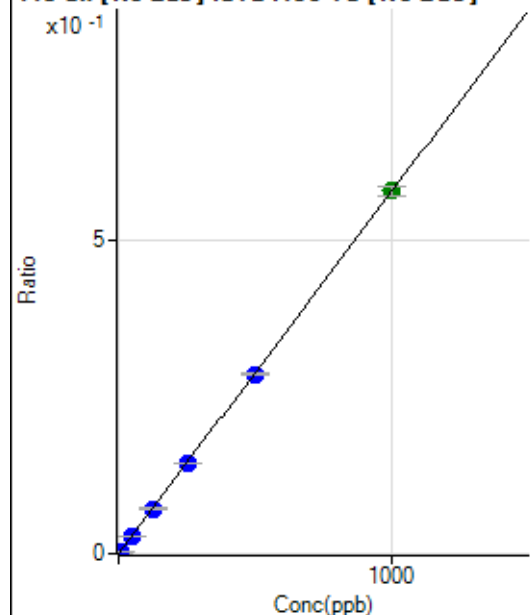
$$R = 1.0000$$

$$DL = 0.1129$$

$$BEC = 2.096$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0000	P	33.7
2	☐	5.000	4.864	11841.55	0.0028	P	4.3
3	☐	50.000	47.986	122463.79	0.0277	P	3.5
4	☐	125.000	124.747	307180.76	0.0719	P	0.6
5	☐	250.000	250.571	620142.77	0.1444	P	1.0
6	☐	500.000	495.818	1268173.79	0.2856	P	0.6
7	☐	1000.000	1002.081	2559346.74	0.5772	A	2.6
8	☐			1986.32	0.0004	P	14.5

$$y = 5.7597E-004 * x + 3.0255E-005$$

$$R = 1.0000$$

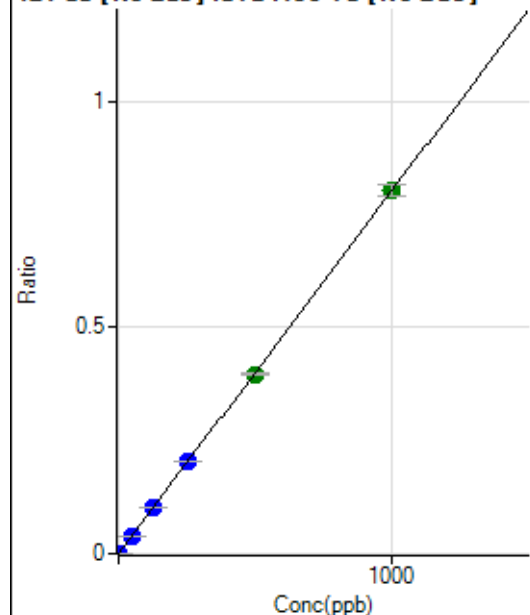
$$DL = 0.05311$$

$$BEC = 0.05253$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	173.2
2	☐	2.000	1.945	6521.19	0.0016	P	3.5
3	☐	50.000	48.340	171333.36	0.0387	P	1.5
4	☐	125.000	126.771	433631.14	0.1015	P	1.8
5	☐	250.000	255.292	877938.16	0.2044	P	1.0
6	☐	500.000	494.698	1758440.55	0.3960	A	0.7
7	☐	1000.000	1001.190	3553400.38	0.8014	A	3.1
8	☐			3522.84	0.0008	P	1.0

$$y = 8.0049\text{E-}004 * x + 2.6427\text{E-}006$$

$$R = 1.0000$$

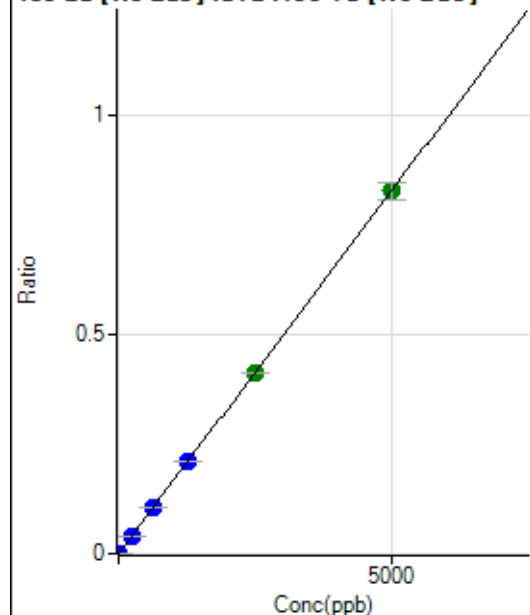
$$DL = 0.01715$$

$$BEC = 0.003301$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	50.2
2	☐	10.000	9.787	6799.13	0.0016	P	4.8
3	☐	250.000	243.609	178384.26	0.0403	P	3.4
4	☐	625.000	634.178	448209.62	0.1049	P	2.3
5	☐	1250.000	1274.233	905365.95	0.2108	P	1.4
6	☐	2500.000	2486.753	1826261.50	0.4113	A	0.7
7	☐	5000.000	4999.738	3665405.90	0.8269	A	5.0
8	☐			2200.25	0.0005	P	11.2

$$y = 1.6539\text{E-}004 * x + 7.8978\text{E-}006$$

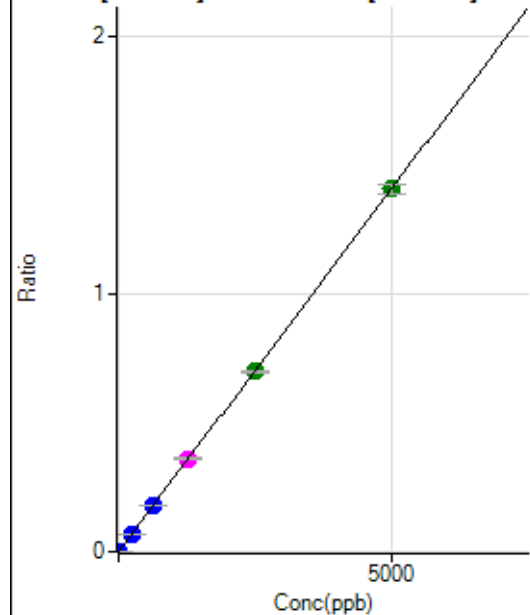
$$R = 1.0000$$

$$DL = 0.07192$$

$$BEC = 0.04775$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.11	0.0000	P	28.2
2	☐	10.000	9.970	11794.34	0.0028	P	4.5
3	☐	250.000	245.854	306475.38	0.0692	P	2.6
4	☐	625.000	642.593	773192.30	0.1809	P	1.0
5	☐	1250.000	1278.699	1546664.91	0.3600	M	1.7
6	☐	2500.000	2480.995	3101673.77	0.6985	A	0.6
7	☐	5000.000	5000.336	6242394.80	1.4079	A	2.8
8	☐			3383.90	0.0008	P	14.1

$$y = 2.8155E-004 * x + 1.4450E-005$$

$$R = 1.0000$$

$$DL = 0.04336$$

$$BEC = 0.05132$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.45		P	86.6
2	☐			11.11		P	173.2
3	☐			6.67		P	0.0
4	☐			28.89		P	35.2
5	☐			31.11		P	32.7
6	☐			86.67		P	35.3
7	☐			166.67		P	12.0
8	☐			35.55		P	47.2

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			2.22		P	86.6
4	☐			2.22		P	86.6
5	☐			3.33		P	0.0
6	☐			4.45		P	86.6
7	☐			18.89		P	71.3
8	☐			8.89		P	86.6

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.78		P	173.2
2	☐			8.33		P	173.2
3	☐			22.22		P	94.4
4	☐			30.56		P	31.5
5	☐			13.89		P	91.6
6	☐			58.34		P	62.3
7	☐			105.56		P	22.8
8	☐			783.38		P	16.6

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			5.55		P	69.3
3	☐			6.67		P	50.0
4	☐			4.45		P	86.6
5	☐			5.55		P	69.3
6	☐			12.22		P	31.5
7	☐			44.44		P	28.4
8	☐			397.79		P	5.1

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			33.33		P	25.0
2	☐			47.22		P	36.7
3	☐			52.78		P	9.1
4	☐			63.89		P	45.8
5	☐			86.11		P	20.1
6	☐			77.78		P	22.3
7	☐			91.67		P	24.1
8	☐			802.82		P	8.3

160 Gd [He] No available calibration points

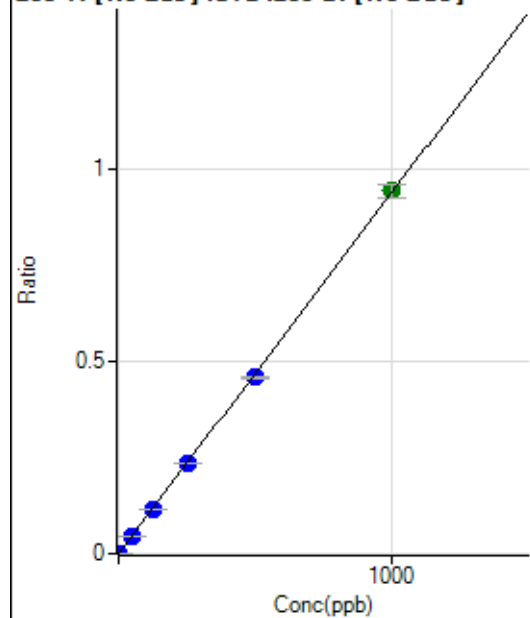
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15.56		P	75.3
2	☐			14.44		P	53.3
3	☐			21.11		P	24.1
4	☐			26.67		P	33.1
5	☐			32.22		P	26.0
6	☐			28.89		P	37.1
7	☐			37.78		P	28.4
8	☐			457.79		P	4.4

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	57.3
2	☐			8.33		P	0.0
3	☐			25.00		P	33.3
4	☐			33.33		P	43.3
5	☐			36.11		P	35.3
6	☐			19.45		P	107.9
7	☐			33.33		P	25.0
8	☐			122.23		P	30.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	40.0
2	☐			7.78		P	65.5
3	☐			6.67		P	86.6
4	☐			4.44		P	43.4
5	☐			10.00		P	57.7
6	☐			7.78		P	65.5
7	☐			16.66		P	91.7
8	☐			67.78		P	31.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	119.45	0.0001	P	14.5
2	☐	1.000	1.042	2358.62	0.0010	P	7.1
3	☐	50.000	47.553	106989.36	0.0448	P	1.0
4	☐	125.000	123.160	270186.39	0.1158	P	0.9
5	☐	250.000	251.356	545299.86	0.2364	P	0.4
6	☐	500.000	488.864	1104860.79	0.4597	P	0.9
7	☐	1000.000	1005.581	2230841.85	0.9455	A	3.6
8	☐			2317.06	0.0010	P	16.7

$$y = 9.4017E-004 * x + 5.1842E-005$$

$$R = 0.9999$$

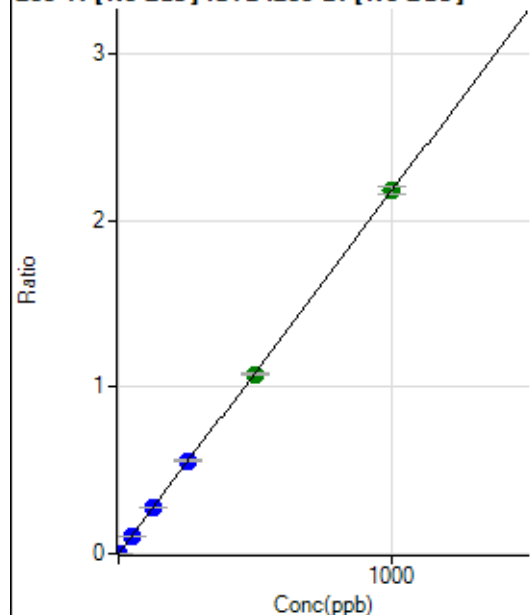
$$DL = 0.02401$$

$$BEC = 0.05514$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	222.23	0.0001	P	21.0
2	☐	1.000	0.981	5101.15	0.0022	P	5.8
3	☐	50.000	49.092	255430.24	0.1069	P	1.7
4	☐	125.000	125.411	636300.17	0.2728	P	0.5
5	☐	250.000	256.428	1286617.66	0.5577	P	0.7
6	☐	500.000	495.135	2588131.92	1.0768	A	0.9
7	☐	1000.000	1000.819	5136352.16	2.1765	A	2.2
8	☐			5190.16	0.0023	P	13.6

$$y = 0.0022 * x + 9.6346E-005$$

$$R = 1.0000$$

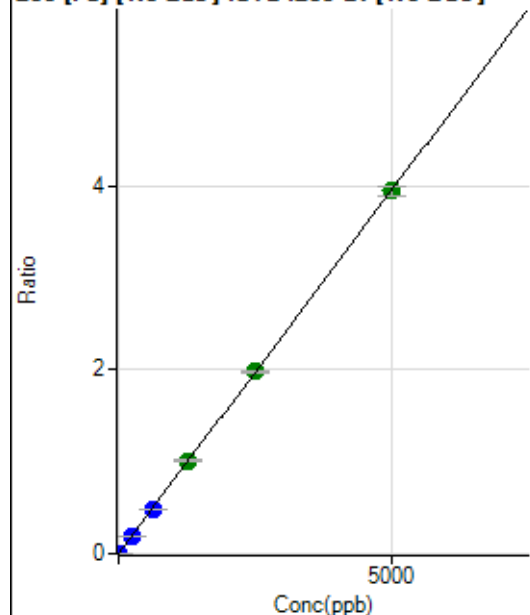
$$DL = 0.02785$$

$$BEC = 0.0443$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0001	P	8.0
2	☐	1.000	0.944	1842.76	0.0008	P	8.8
3	☐	250.000	239.049	451584.07	0.1889	P	1.3
4	☐	625.000	612.055	1127960.37	0.4836	P	0.7
5	☐	1250.000	1275.213	2324214.17	1.0075	A	1.4
6	☐	2500.000	2502.012	4751222.85	1.9768	A	0.5
7	☐	5000.000	4994.857	9312720.93	3.9462	A	2.3
8	☐			11633.23	0.0052	P	5.5

$$y = 7.9005E-004 * x + 6.0283E-005$$

$$R = 1.0000$$

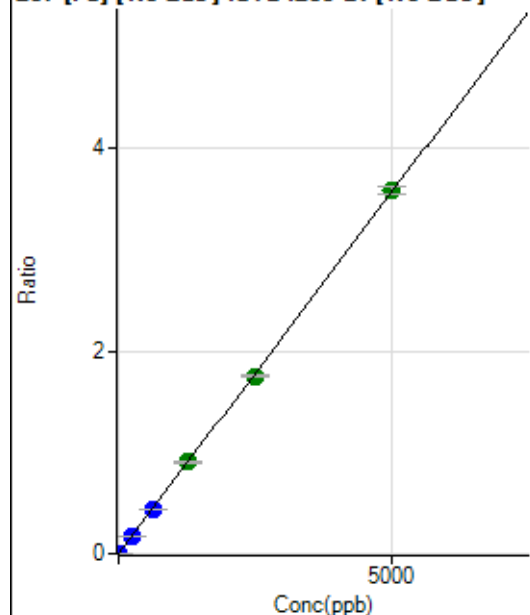
$$DL = 0.01824$$

$$BEC = 0.0763$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0001	P	11.9
2	☐	1.000	0.908	1622.36	0.0007	P	1.9
3	☐	250.000	238.893	406973.57	0.1703	P	0.8
4	☐	625.000	612.008	1017143.33	0.4361	P	1.2
5	☐	1250.000	1268.697	2085523.79	0.9040	A	0.8
6	☐	2500.000	2450.917	4196946.74	1.7462	A	1.2
7	☐	5000.000	5022.047	8443964.02	3.5781	A	2.1
8	☐			10463.70	0.0047	P	5.5

$$y = 7.1246\text{E-}004 * x + 6.0350\text{E-}005$$

$$R = 0.9999$$

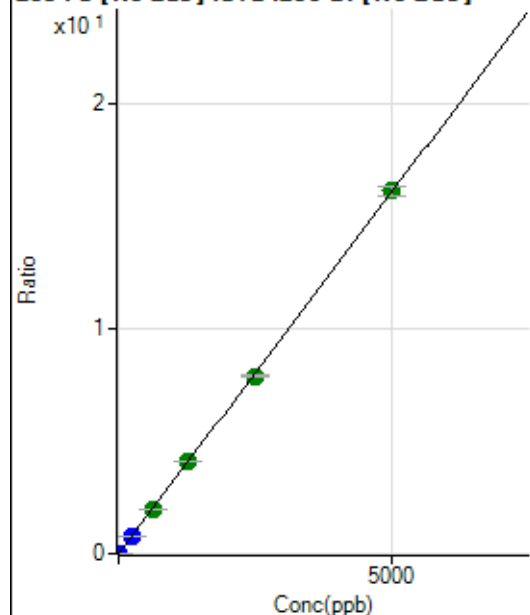
$$DL = 0.03017$$

$$BEC = 0.08471$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	561.13	0.0002	P	4.8
2	☐	1.000	0.936	7421.35	0.0032	P	5.8
3	☐	250.000	239.029	1832537.21	0.7667	P	0.8
4	☐	625.000	618.048	4622626.76	1.9819	A	0.9
5	☐	1250.000	1270.178	9396236.75	4.0729	A	1.0
6	☐	2500.000	2454.691	18917379.42	7.8709	A	0.7
7	☐	5000.000	5019.028	37975594.89	16.0931	A	2.7
8	☐			47065.89	0.0210	P	4.3

$$y = 0.0032 * x + 2.4364\text{E-}004$$

$$R = 0.9999$$

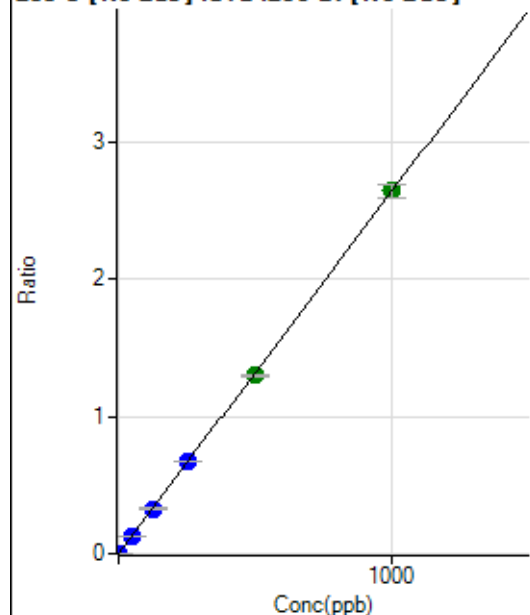
$$DL = 0.01085$$

$$BEC = 0.07599$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0000	P	58.0
2	☐	1.000	0.945	5720.92	0.0025	P	10.0
3	☐	50.000	48.097	303358.48	0.1269	P	0.9
4	☐	125.000	124.845	768330.71	0.3294	P	0.9
5	☐	250.000	253.181	1541192.57	0.6681	P	0.6
6	☐	500.000	493.432	3129379.04	1.3020	A	1.0
7	☐	1000.000	1002.603	6242280.57	2.6455	A	3.5
8	☐			2733.75	0.0012	P	18.8

$$y = 0.0026 * x + 9.6953E-006$$

$$R = 1.0000$$

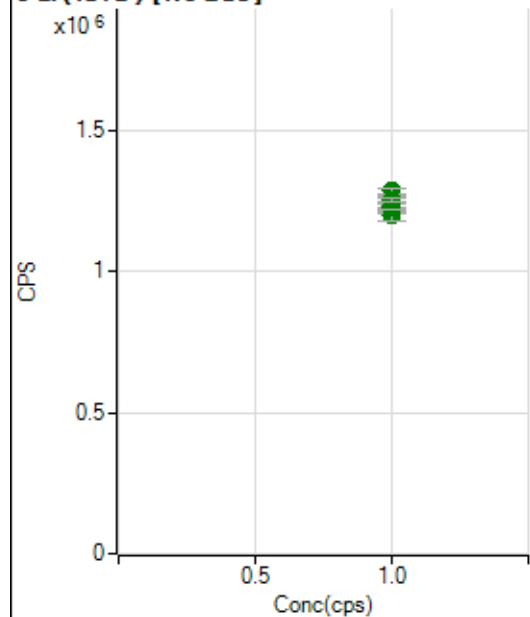
$$DL = 0.006397$$

$$BEC = 0.003674$$

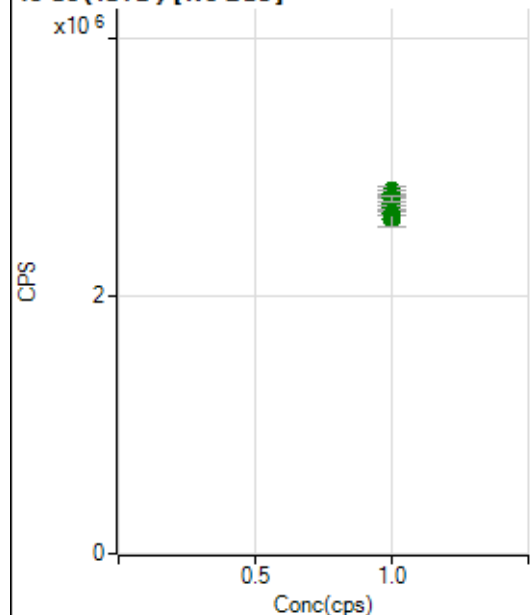
Weight: <None>

Min Conc: 0

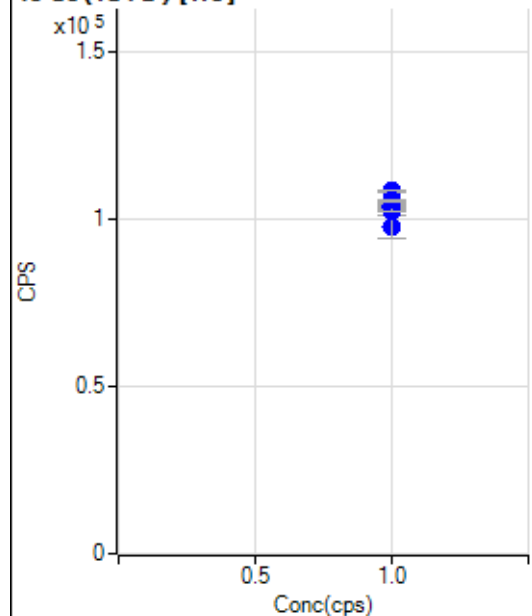
6 Li (ISTD) [No Gas]



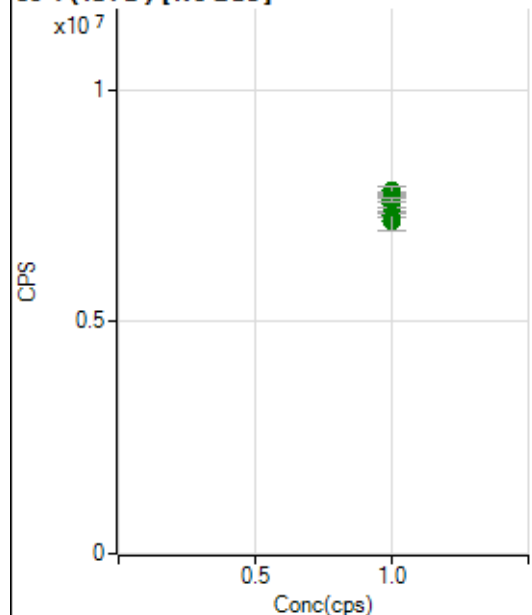
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1215288.37		A	1.3
2	☐	1.000		1196209.14		A	2.9
3	☐	1.000		1233759.03		A	0.9
4	☐	1.000		1224592.70		A	2.5
5	☐	1.000		1228960.48		A	1.6
6	☐	1.000		1284699.40		A	1.8
7	☐	1.000		1254866.28		A	2.2
8	☐	1.000		1253831.85		A	0.9

45 Sc (ISTD) [No Gas]

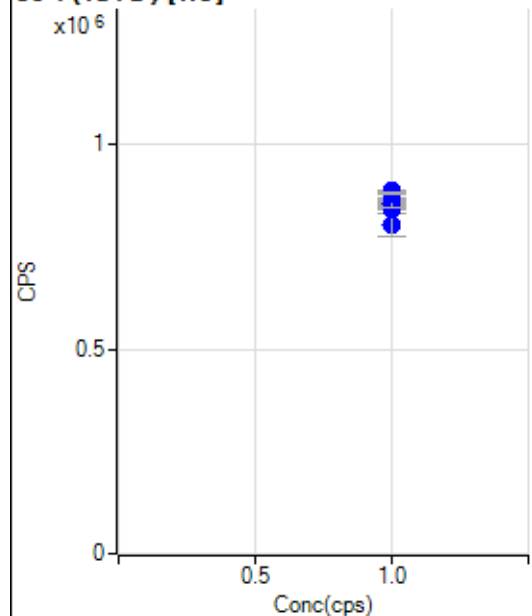
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2636430.40		A	1.1
2	☐	1.000		2600654.34		A	5.0
3	☐	1.000		2724945.81		A	2.1
4	☐	1.000		2682396.68		A	0.8
5	☐	1.000		2714572.55		A	1.6
6	☐	1.000		2814320.22		A	2.2
7	☐	1.000		2796497.94		A	2.0
8	☐	1.000		2756811.97		A	1.4

45 Sc (ISTD) [He]

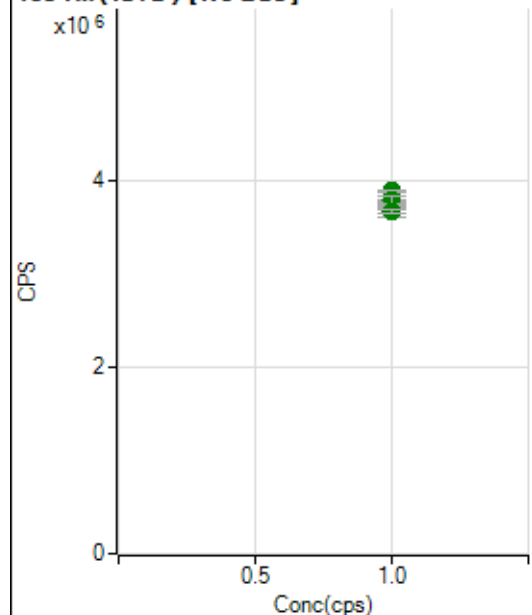
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		97493.66		P	6.9
2	☐	1.000		102283.76		P	0.6
3	☐	1.000		103923.30		P	1.0
4	☐	1.000		103098.44		P	1.0
5	☐	1.000		103346.82		P	0.7
6	☐	1.000		103778.91		P	3.5
7	☐	1.000		108344.35		P	0.6
8	☐	1.000		105534.67		P	0.4

89 Y (ISTD) [No Gas]

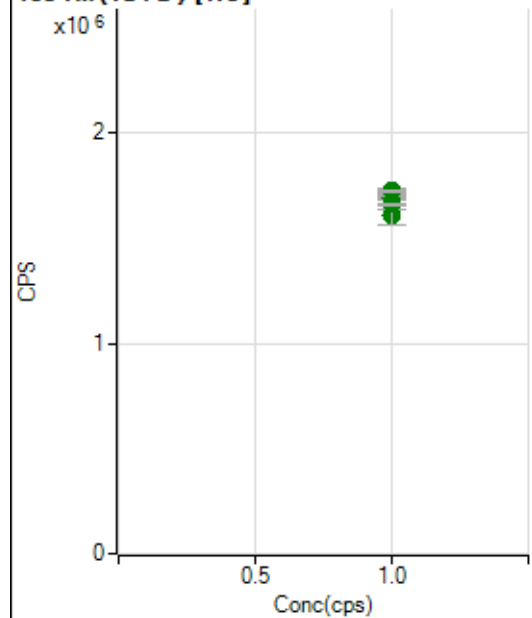
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7303810.03		A	1.0
2	☐	1.000		7175751.77		A	5.7
3	☐	1.000		7622715.03		A	1.1
4	☐	1.000		7524238.50		A	1.5
5	☐	1.000		7448395.10		A	0.1
6	☐	1.000		7756491.83		A	0.6
7	☐	1.000		7815070.44		A	2.5
8	☐	1.000		7627722.74		A	1.4

89 Y (ISTD) [He]

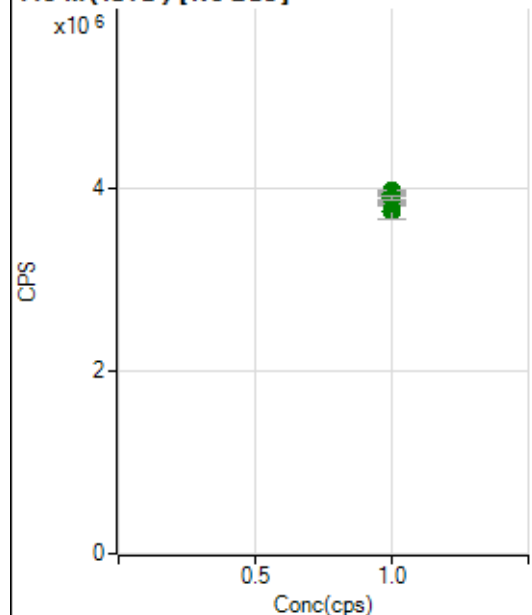
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		805501.31		P	6.9
2	☐	1.000		844121.22		P	1.0
3	☐	1.000		861017.11		P	0.8
4	☐	1.000		853025.15		P	0.4
5	☐	1.000		858258.67		P	0.4
6	☐	1.000		857192.47		P	2.9
7	☐	1.000		887253.20		P	0.0
8	☐	1.000		881762.77		P	0.3

103 Rh (ISTD) [No Gas]

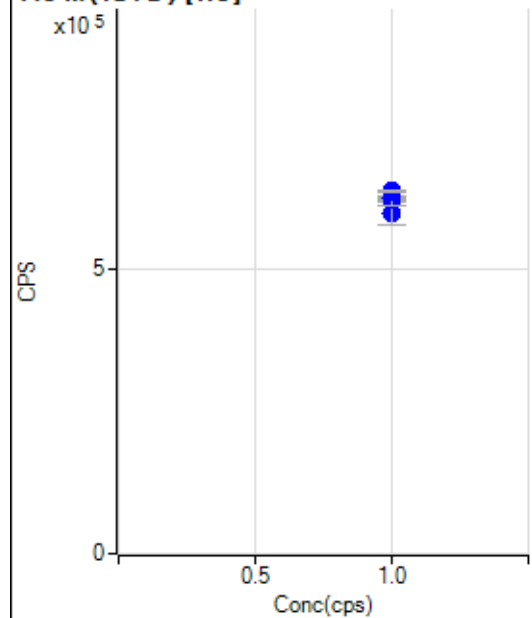
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3709017.49		A	0.6
2	☐	1.000		3696318.88		A	5.0
3	☐	1.000		3885506.25		A	0.6
4	☐	1.000		3729008.85		A	2.2
5	☐	1.000		3731167.84		A	0.3
6	☐	1.000		3874768.14		A	0.6
7	☐	1.000		3792660.68		A	2.4
8	☐	1.000		3665141.75		A	1.6

103 Rh (ISTD) [He]

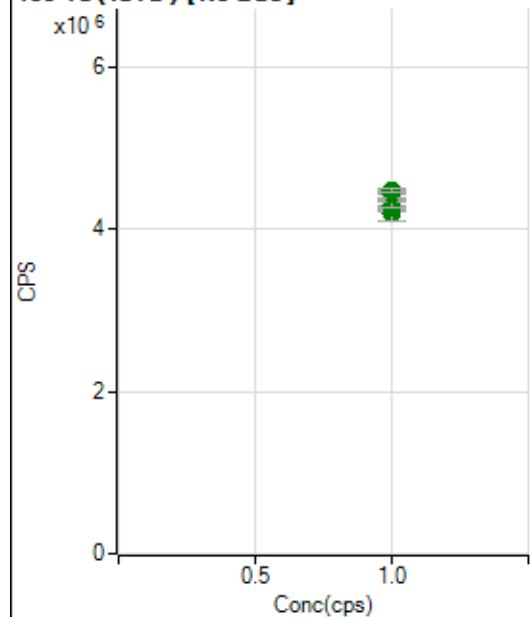
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1608076.33		A	5.5
2	☐	1.000		1688319.14		A	0.3
3	☐	1.000		1722977.47		A	1.3
4	☐	1.000		1690974.56		A	0.8
5	☐	1.000		1692800.74		A	0.6
6	☐	1.000		1667040.88		A	3.8
7	☐	1.000		1725964.92		A	0.2
8	☐	1.000		1661292.75		A	0.5

115 In (ISTD) [No Gas]

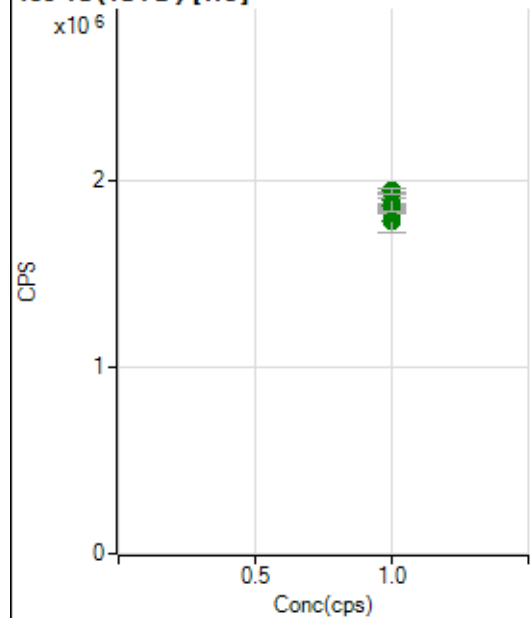
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3831051.00		A	0.8
2	☐	1.000		3756707.55		A	3.9
3	☐	1.000		3916162.36		A	1.3
4	☐	1.000		3841684.58		A	0.9
5	☐	1.000		3855044.96		A	0.5
6	☐	1.000		3982127.27		A	0.6
7	☐	1.000		3957101.99		A	1.2
8	☐	1.000		3908697.13		A	1.2

115 In (ISTD) [He]

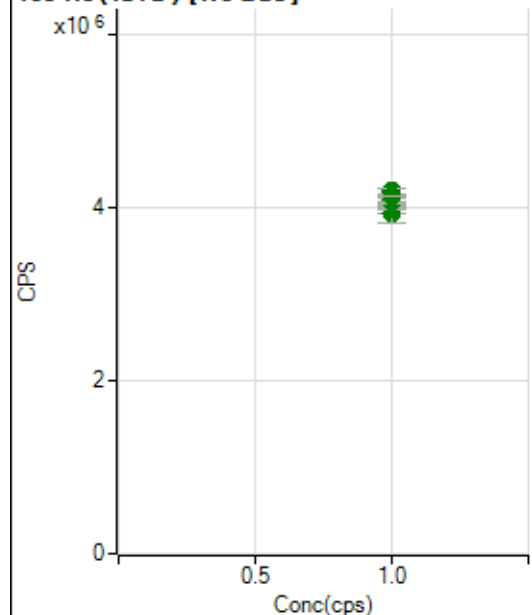
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		600071.55		P	6.6
2	☐	1.000		623910.23		P	0.7
3	☐	1.000		638906.20		P	0.9
4	☐	1.000		629825.41		P	0.3
5	☐	1.000		627766.45		P	0.6
6	☐	1.000		625101.27		P	3.8
7	☐	1.000		635734.62		P	0.2
8	☐	1.000		637865.62		P	0.9

159 Tb (ISTD) [No Gas]

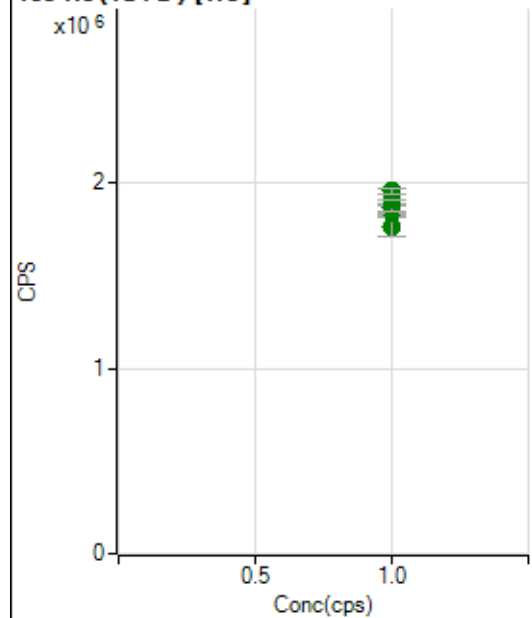
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4226491.67		A	0.6
2	☐	1.000		4183723.13		A	3.9
3	☐	1.000		4428593.89		A	3.0
4	☐	1.000		4273549.03		A	1.0
5	☐	1.000		4296487.47		A	1.7
6	☐	1.000		4440352.19		A	0.7
7	☐	1.000		4435750.07		A	2.2
8	☐	1.000		4467693.93		A	1.0

159 Tb (ISTD) [He]

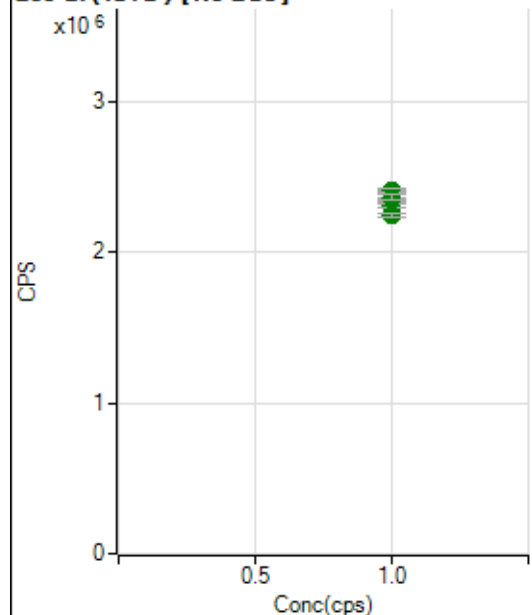
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1779871.80		A	6.6
2	☐	1.000		1843386.00		A	0.7
3	☐	1.000		1888446.38		A	1.4
4	☐	1.000		1821856.64		A	0.6
5	☐	1.000		1868967.39		A	0.4
6	☐	1.000		1864743.04		A	4.1
7	☐	1.000		1928510.35		A	0.9
8	☐	1.000		1940435.77		A	1.7

165 Ho (ISTD) [No Gas]

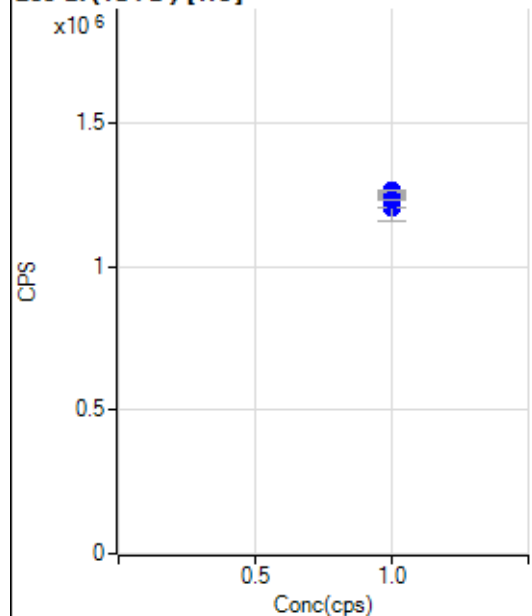
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3972951.43		A	1.4
2	☐	1.000		3927054.73		A	4.7
3	☐	1.000		4087159.47		A	1.3
4	☐	1.000		3985447.44		A	0.4
5	☐	1.000		4064702.65		A	0.8
6	☐	1.000		4195811.77		A	1.8
7	☐	1.000		4188302.22		A	1.6
8	☐	1.000		4134051.01		A	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1766685.48		A	6.7
2	☐	1.000		1835635.37		A	1.1
3	☐	1.000		1862686.27		A	1.8
4	☐	1.000		1829837.09		A	1.3
5	☐	1.000		1841281.43		A	0.6
6	☐	1.000		1861104.07		A	2.3
7	☐	1.000		1905673.60		A	0.1
8	☐	1.000		1955556.41		A	1.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2304001.51		A	1.4
2	☐	1.000		2291913.04		A	5.7
3	☐	1.000		2390155.60		A	1.1
4	☐	1.000		2332331.39		A	0.5
5	☐	1.000		2306982.78		A	1.0
6	☐	1.000		2403605.85		A	1.2
7	☐	1.000		2360542.14		A	1.8
8	☐	1.000		2239382.32		A	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1202050.06		P	7.0
2	☐	1.000		1247256.69		P	0.3
3	☐	1.000		1262046.76		P	0.7
4	☐	1.000		1239174.03		P	0.5
5	☐	1.000		1237563.12		P	0.5
6	☐	1.000		1230050.39		P	4.4
7	☐	1.000		1260105.53		P	0.6
8	☐	1.000		1231924.76		P	0.2

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8010421MS.b
Acq. Date-Time 2021-01-04 11:43:52
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		2379	23788.75			1.265	5.000
24		30756	307555.43			1.003	5.000
25		4158	41580.49			1.316	5.000
26		4821	48211.49			1.397	5.000
59		5206	52061.83			1.412	5.000
113		2424	24239.53			1.173	5.000
115		7725	77251.15			1.098	5.000
206		2661	26605.75			1.476	5.000
207		2213	22128.96			1.832	5.000
208		5417	54172.43			1.171	5.000
220		1	8.40			19.471	

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

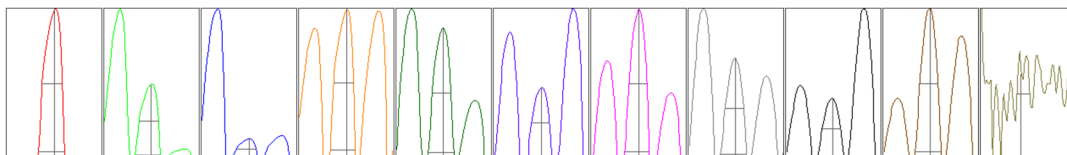
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2389	2327	2386	2387	2405
24	30692	30342	30700	30849	31195
25	4141	4075	4170	4180	4223
26	4797	4740	4820	4822	4926
59	5154	5126	5246	5195	5310
113	2394	2397	2445	2427	2457
115	7681	7610	7802	7720	7812
206	2631	2608	2683	2681	2700
207	2199	2151	2259	2232	2223
208	5383	5334	5456	5415	5498

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4051.46	9.05	8.90 - 9.10	
24	52830.68	24.00	23.90 - 24.10	
25	7117.65	25.05	24.90 - 25.10	
26	8168.45	26.05	25.90 - 26.10	
59	9337.39	59.00	58.90 - 59.10	
113	4530.30	113.05	112.90 - 113.10	
115	14496.22	115.05	114.90 - 115.10	
206	4808.29	206.00	205.90 - 206.10	
207	3966.47	207.00	206.90 - 207.10	
208	9861.50	208.00	207.90 - 208.10	
220	0.90	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.820	0.900	
24	0.62	0.791	0.900	
25	0.61	0.789	0.900	
26	0.63	0.787	0.900	
59	0.58	0.817	0.900	
113	0.56	0.737	0.900	
115	0.55	0.771	0.900	
206	0.58	0.821	0.900	
207	0.58	0.824	0.900	
208	0.57	0.828	0.900	
220	0.41			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.0 V	Deflect	15.4 V
Extract 2	-215.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-100 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	122	Axis Gain	0.9990	QP Bias	-4.0 V
Mass Offset	123	Axis Offset	0.00		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1188	11878.94			2.212	
89		40622	406221.93			1.986	
205		2121	21206.16			1.886	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1141	1204	1201	1196	1197
89	39193	41092	41071	40817	40938
205	2066	2148	2164	2095	2129

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.0 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-215.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-100 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	122	Axis Gain	0.9990	QP Bias	-13.0 V
Mass Offset	123	Axis Offset	0.00		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1350 V