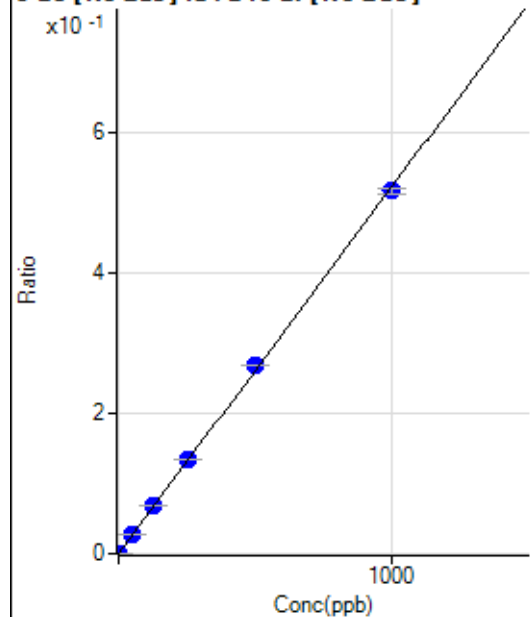


Calibration for 007CALS.d

Batch Folder: C:\Agilent\ICPMH\1\DATA\P708121-EPA.b\
 Analysis File: P708121-EPA.batch.bin
 DA Date-Time: 2021-08-01 17:03:24
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-08-01 10:33:04
2	005CALS.d	S02	2021-08-01 10:39:12
3	006CALS.d	S03	2021-08-01 10:42:16
4	007CALS.d	S04	2021-08-01 10:45:20
5	008CALS.d	S05	2021-08-01 10:48:22
6	009CALS.d	S06	2021-08-01 10:51:20
7	010CALS.d	S07	2021-08-01 10:54:14
8	011CALS.d	S08	2021-08-01 10:57:07

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	44.45	0.0000	P	34.3
2	☐	1.000	0.874	1459.35	0.0005	P	10.4
3	☐	50.000	52.155	83866.84	0.0273	P	0.5
4	☐	125.000	131.322	204368.87	0.0686	P	1.4
5	☐	250.000	258.221	385225.71	0.1349	P	1.1
6	☐	500.000	513.970	705307.16	0.2686	P	0.3
7	☐	1000.000	990.062	1282834.77	0.5173	P	1.8
8	☐			227.78	0.0001	P	22.6

$$y = 5.2251\text{E-}004 * x + 1.4929\text{E-}005$$

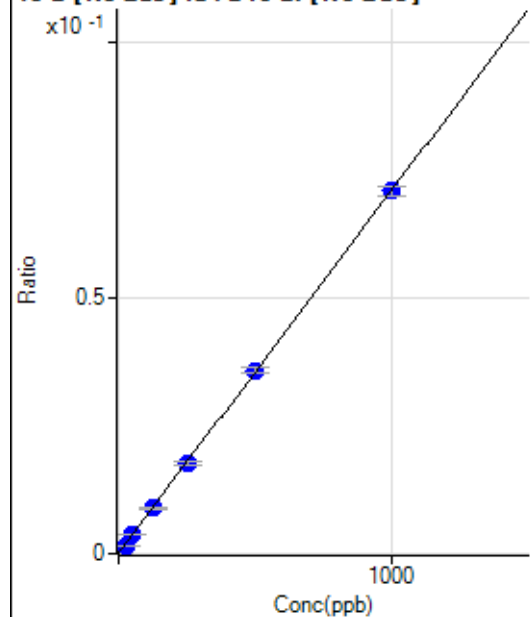
$$R = 0.9998$$

$$DL = 0.02941$$

$$BEC = 0.02857$$

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	377.79	0.0001	P	24.1
2	☐	25.000	20.350	4856.47	0.0016	P	1.6
3	☐	50.000	50.591	11415.71	0.0037	P	4.8
4	☐	125.000	123.379	26415.12	0.0089	P	4.4
5	☐	250.000	246.096	50141.68	0.0176	P	4.1
6	☐	500.000	504.077	94149.80	0.0359	P	3.0
7	☐	1000.000	999.227	175917.08	0.0709	P	2.4
8	☐			6854.53	0.0029	P	13.3

$$y = 7.0875\text{E-}005 * x + 1.2625\text{E-}004$$

$$R = 1.0000$$

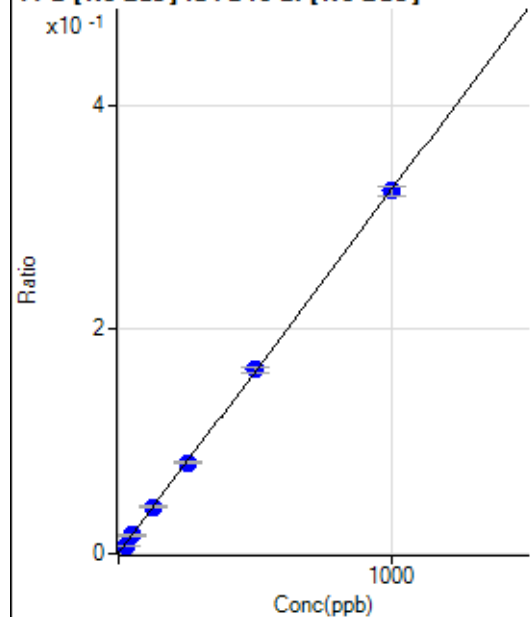
$$DL = 1.29$$

$$BEC = 1.781$$

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	1661.25	0.0006	P	7.1
2	☐	25.000	20.035	21827.38	0.0070	P	4.0
3	☐	50.000	49.402	50936.28	0.0166	P	4.7
4	☐	125.000	127.001	124182.70	0.0417	P	3.4
5	☐	250.000	248.871	231739.90	0.0812	P	3.1
6	☐	500.000	505.630	431663.08	0.1644	P	3.2
7	☐	1000.000	997.371	802653.25	0.3237	P	2.6
8	☐			31514.23	0.0131	P	11.7

$$y = 3.2400\text{E-}004 * x + 5.5576\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.3662$$

$$BEC = 1.715$$

Weight: <None>

Min Conc: 0

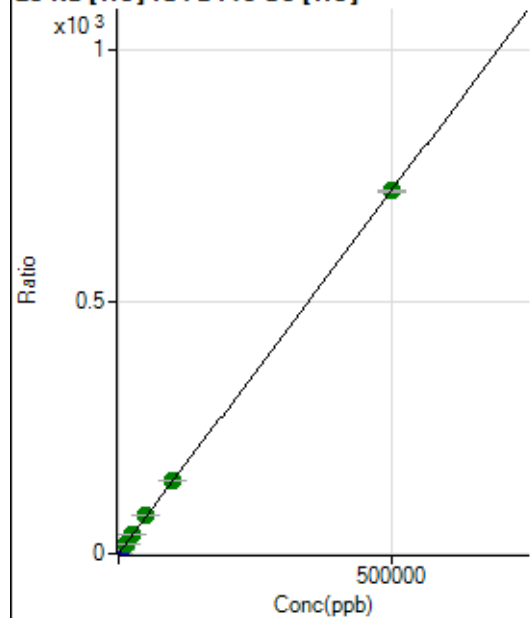
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6181.99	0.0182	P	4.7
2	☐	500.000	413.083	213168.52	0.6127	P	0.8
3	☐	5000.000	5168.567	2548893.03	7.4566	P	0.4
4	☐	12500.000	13082.500	6138674.79	18.8459	A	0.3
5	☐	25000.000	25649.792	11384741.23	36.9321	A	0.0
6	☐	50000.000	51924.320	21378967.32	74.7452	A	0.5
7	☐	100000.00	99861.229	39849587.69	143.7337	A	0.5
8	☐	500000.00	499786.67	210081269.9	719.2871	A	0.7

$$y = 0.0014 * x + 0.0182$$

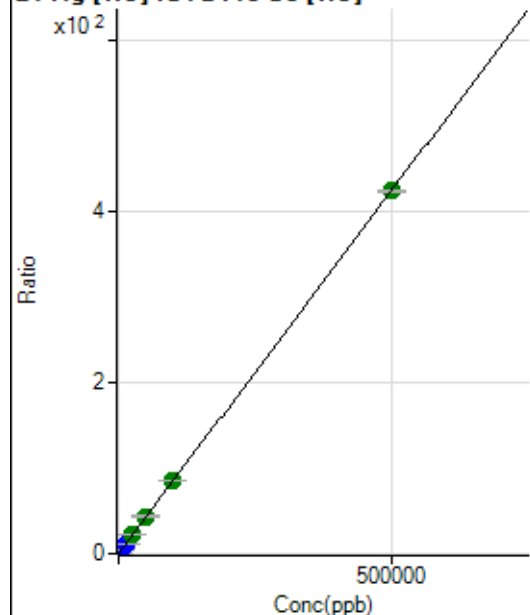
$$R = 1.0000$$

$$DL = 1.782$$

$$BEC = 12.65$$

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	358.34	0.0011	P	28.7
2	☐	500.000	405.794	120027.20	0.3450	P	2.1
3	☐	5000.000	5182.706	1501869.84	4.3936	P	1.1
4	☐	12500.000	13136.525	3626895.83	11.1347	P	0.4
5	☐	25000.000	26013.459	6796706.49	22.0484	A	0.8
6	☐	50000.000	51560.093	12499466.16	43.7001	A	0.6
7	☐	100000.00	100394.31	23590228.65	85.0888	A	0.5
8	☐	500000.00	499696.80	123698826.3	423.5118	A	0.2

$$y = 8.4754\text{E-}004 * x + 0.0011$$

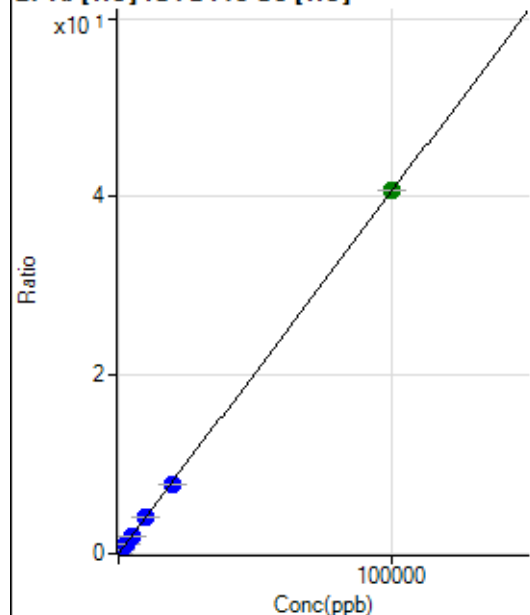
$$R = 1.0000$$

$$DL = 1.075$$

$$BEC = 1.246$$

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	88.89	0.0003	P	24.0
2	☐	20.000	18.760	2741.98	0.0079	P	3.7
3	☐	1000.000	1031.870	143352.02	0.4194	P	0.9
4	☐	2500.000	2571.972	340338.78	1.0449	P	1.4
5	☐	5000.000	4969.002	622227.59	2.0185	P	0.7
6	☐	10000.000	9914.458	1151775.59	4.0271	P	1.3
7	☐	20000.000	19218.336	2164138.26	7.8059	P	0.3
8	☐	100000.00	100164.31	11882343.58	40.6826	A	0.1

$$y = 4.0616\text{E-}004 * x + 2.6187\text{E-}004$$

$$R = 1.0000$$

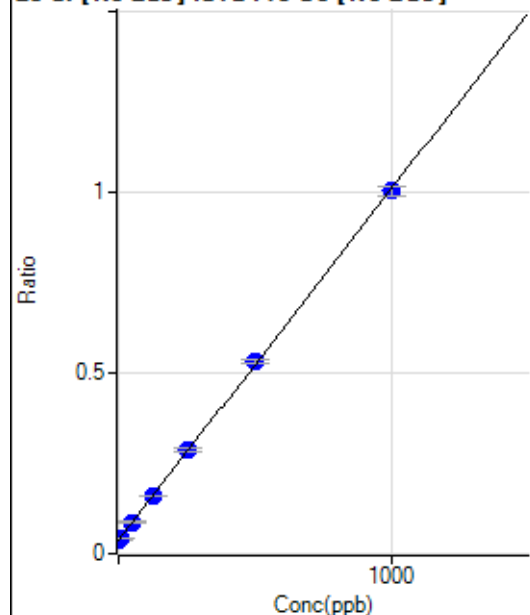
$$DL = 0.4645$$

$$BEC = 0.6447$$

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	168695.95	0.0373	P	3.6
2	☐	10.000	4.999	195866.27	0.0422	P	2.2
3	☐	50.000	51.047	399428.35	0.0870	P	1.8
4	☐	125.000	126.264	717805.30	0.1601	P	1.1
5	☐	250.000	257.299	1216266.90	0.2875	P	2.5
6	☐	500.000	508.926	2056842.86	0.5323	P	2.0
7	☐	1000.000	993.552	3635647.00	1.0035	P	2.5
8	☐			294256.65	0.0798	P	3.7

$$y = 9.7249\text{E-}004 * x + 0.0373$$

R = 0.9999

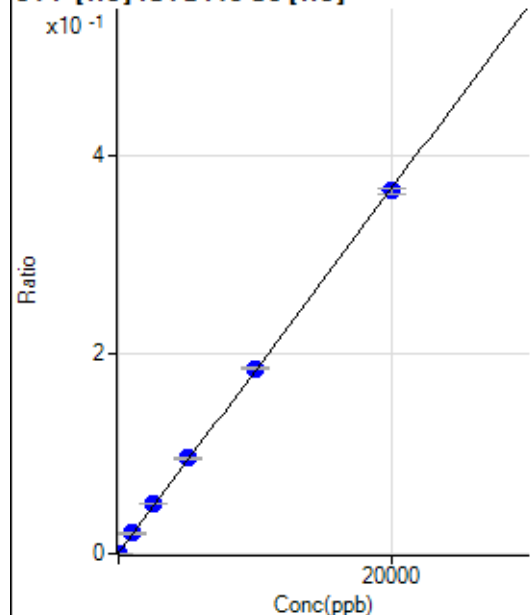
DL = 4.155

BEC = 38.38

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	3.304	252.79	0.0007	P	18.2
2	☐	0.000	-3.304	216.67	0.0006	P	20.7
3	☐	1000.000	1078.433	6982.39	0.0204	P	5.4
4	☐	2500.000	2682.631	16220.28	0.0498	P	1.8
5	☐	5000.000	5209.674	29613.12	0.0961	P	2.2
6	☐	10000.000	10114.943	53158.68	0.1859	P	1.0
7	☐	20000.000	19863.359	101009.41	0.3643	P	1.8
8	☐			233.34	0.0008	P	13.0

$$y = 1.8307\text{E-}005 * x + 6.8353\text{E-}004$$

R = 0.9999

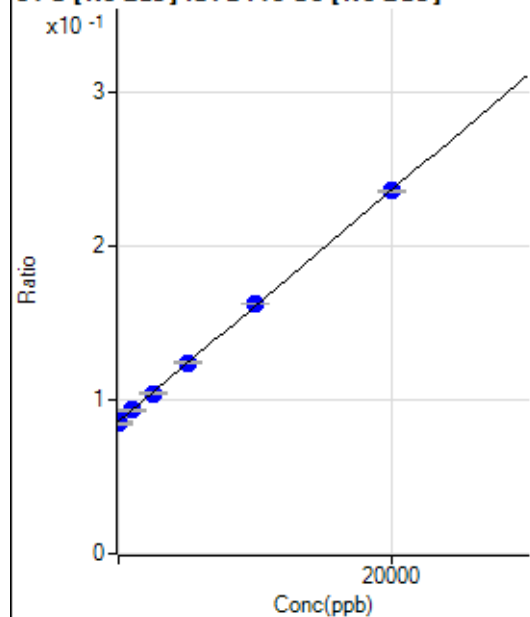
DL = 21.63

BEC = 37.34

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	165.079	394051.33	0.0872	P	3.0
2	☐	0.000	-165.079	393264.05	0.0847	P	1.4
3	☐	1000.000	962.830	427992.28	0.0932	P	0.3
4	☐	2500.000	2438.026	467444.65	0.1043	P	0.8
5	☐	5000.000	5084.814	525281.90	0.1242	P	1.0
6	☐	10000.000	10125.925	626306.36	0.1621	P	0.3
7	☐	20000.000	19925.439	853917.16	0.2357	P	0.6
8	☐			322369.03	0.0874	P	0.8

$$y = 7.5163\text{E-}006 * x + 0.0859$$

$$R = 0.9999$$

$$DL = 765.9$$

$$BEC = 1.143\text{E}+04$$

Weight: <None>

Min Conc: 0

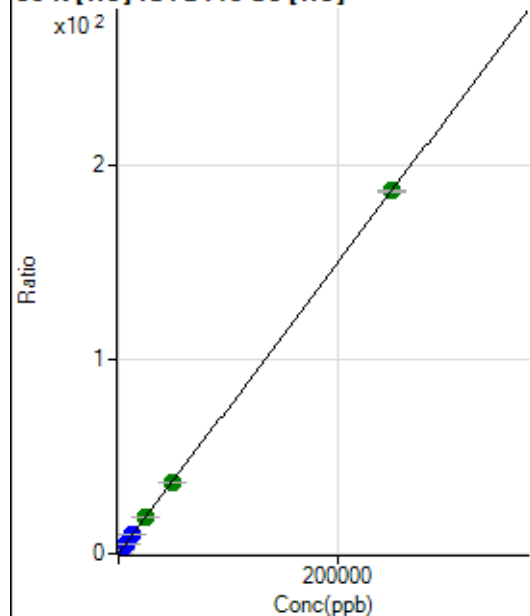
35 Cl [No Gas] No available calibration points



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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	32928.75	0.0969	P	2.1
2	☐	500.000	413.313	141133.95	0.4056	P	0.9
3	☐	2500.000	2670.325	714971.80	2.0916	P	0.3
4	☐	6250.000	6766.540	1677977.73	5.1514	P	0.1
5	☐	12500.000	13167.611	3061919.43	9.9329	P	0.2
6	☐	25000.000	25098.741	5389829.72	18.8452	A	1.4
7	☐	50000.000	48912.565	10156400.75	36.6337	A	0.7
8	☐	250000.00	250159.78	54606451.22	186.9617	A	0.7

$$y = 7.4698\text{E-}004 * x + 0.0969$$

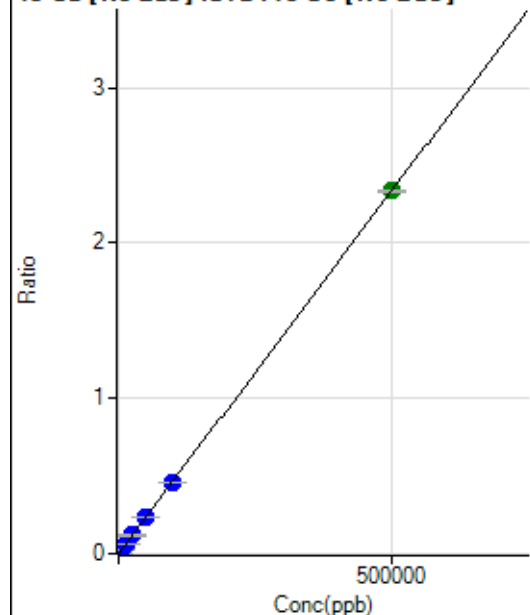
$$R = 1.0000$$

$$DL = 8.001$$

$$BEC = 129.7$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	111.12	0.0000	P	25.5
2	☐	500.000	395.013	8675.00	0.0019	P	4.6
3	☐	5000.000	5072.169	108872.50	0.0237	P	0.8
4	☐	12500.000	12721.597	266354.65	0.0594	P	2.0
5	☐	25000.000	25225.199	498313.53	0.1178	P	1.1
6	☐	50000.000	50094.500	903927.42	0.2339	P	0.3
7	☐	100000.00	98616.649	1667993.18	0.4604	P	1.1
8	☐	500000.00	500249.80	8613300.97	2.3355	A	0.6

$$y = 4.6686\text{E-}006 * x + 2.4546\text{E-}005$$

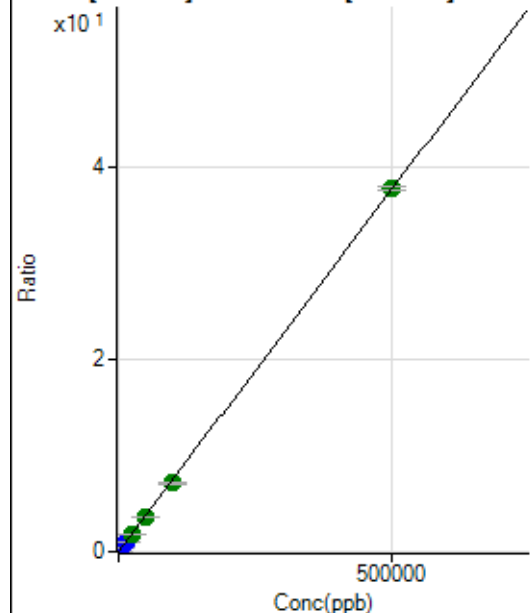
$$R = 1.0000$$

$$DL = 4.024$$

$$BEC = 5.258$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	5189.99	0.0011	P	1.0
2	☐	500.000	397.375	144363.99	0.0311	P	0.1
3	☐	5000.000	5002.945	1736965.17	0.3782	P	0.5
4	☐	12500.000	12481.537	4221954.22	0.9418	P	0.9
5	☐	25000.000	23882.458	7619000.78	1.8010	A	0.9
6	☐	50000.000	47840.913	13938062.12	3.6065	A	0.2
7	☐	100000.00	94715.282	25863006.65	7.1391	A	1.0
8	☐	500000.00	501329.26	139345653.1	37.7823	A	1.0

$$y = 7.5362\text{E-}005 * x + 0.0011$$

$$R = 0.9999$$

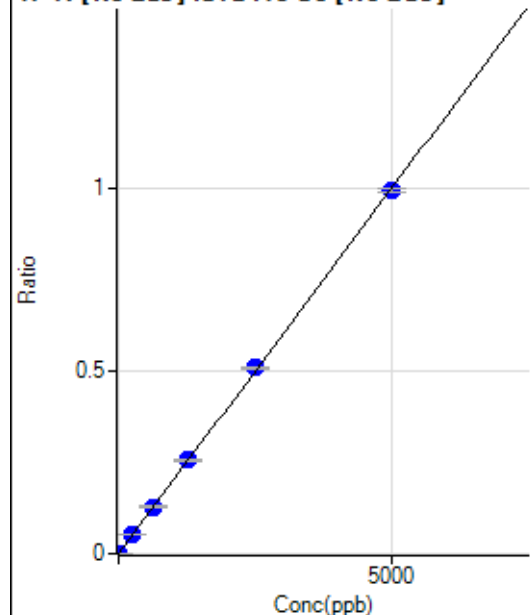
$$DL = 0.4555$$

$$BEC = 15.24$$

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	52.78	0.0000	P	48.9
2	☐	5.000	4.053	3814.48	0.0008	P	9.8
3	☐	250.000	255.887	234876.72	0.0511	P	0.4
4	☐	625.000	644.130	576990.76	0.1287	P	0.7
5	☐	1250.000	1277.021	1079429.83	0.2552	P	1.1
6	☐	2500.000	2545.611	1965659.01	0.5086	P	0.6
7	☐	5000.000	4967.755	3595834.46	0.9926	P	1.2
8	☐			786.16	0.0002	P	14.7

$$y = 1.9980E-004 * x + 1.1707E-005$$

R = 0.9999

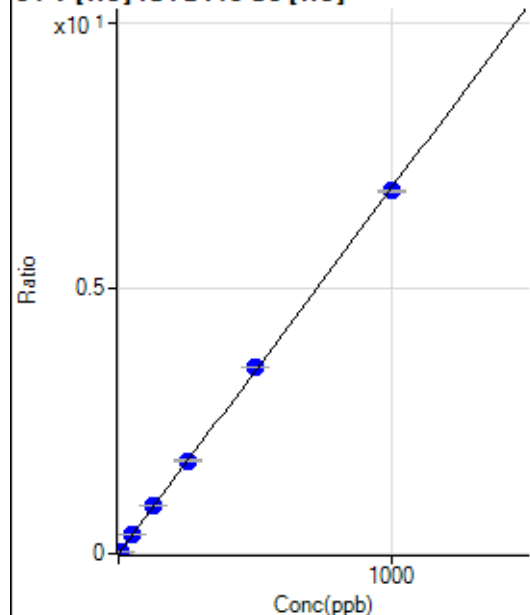
DL = 0.08592

BEC = 0.05859

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	6.67	0.0000	P	50.0
2	☐	5.000	4.262	10201.40	0.0293	P	2.7
3	☐	50.000	51.458	120945.45	0.3538	P	0.5
4	☐	125.000	131.542	294600.83	0.9044	P	0.2
5	☐	250.000	254.899	540252.15	1.7525	P	0.4
6	☐	500.000	510.605	1004138.94	3.5106	P	0.4
7	☐	1000.000	992.586	1892023.41	6.8244	P	0.4
8	☐			515.57	0.0018	P	4.9

$$y = 0.0069 * x + 1.9604E-005$$

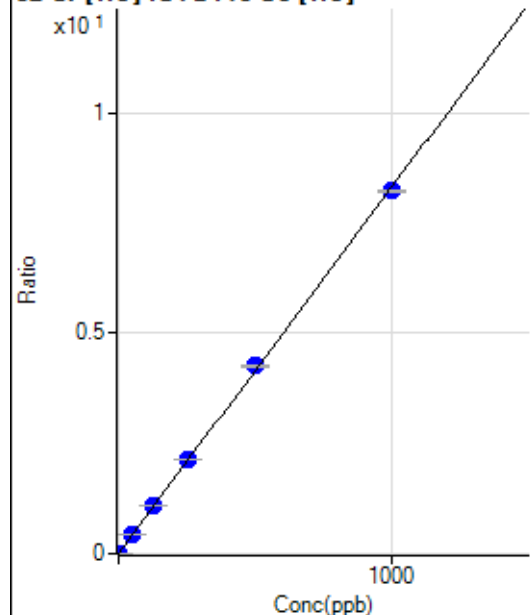
R = 0.9999

DL = 0.004277

BEC = 0.002851

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	1288.96	0.0038	P	4.6
2	☐	2.000	1.704	6240.27	0.0179	P	1.8
3	☐	50.000	51.988	148827.97	0.4354	P	1.0
4	☐	125.000	131.820	357690.86	1.0981	P	0.3
5	☐	250.000	257.337	659712.68	2.1401	P	0.3
6	☐	500.000	512.931	1219017.92	4.2620	P	0.6
7	☐	1000.000	990.749	2281335.26	8.2287	P	0.5
8	☐			13101.46	0.0449	P	1.5

$$y = 0.0083 * x + 0.0038$$

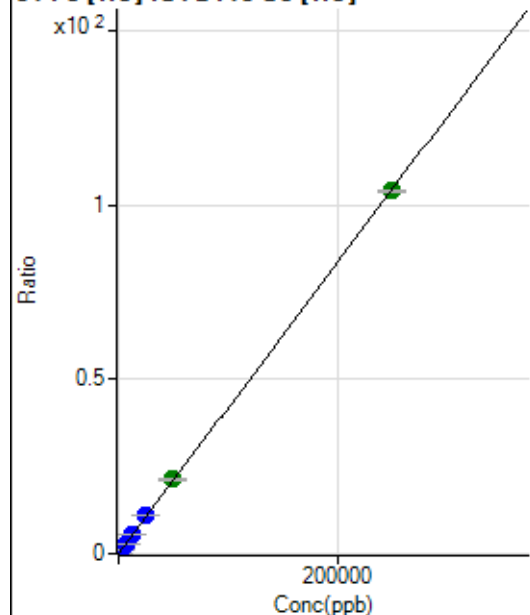
$$R = 0.9998$$

$$DL = 0.06333$$

$$BEC = 0.457$$

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	890.95	0.0026	P	8.9
2	☐	50.000	43.588	7235.87	0.0208	P	5.4
3	☐	2500.000	2686.794	383812.23	1.1228	P	0.5
4	☐	6250.000	6756.398	918419.97	2.8195	P	0.4
5	☐	12500.000	13241.224	1702572.20	5.5232	P	0.1
6	☐	25000.000	26304.496	3137537.35	10.9696	P	0.8
7	☐	50000.000	51259.375	5925655.08	21.3739	A	1.6
8	☐	250000.00	249566.08	30391958.80	104.0526	A	0.5

$$y = 4.1692E-004 * x + 0.0026$$

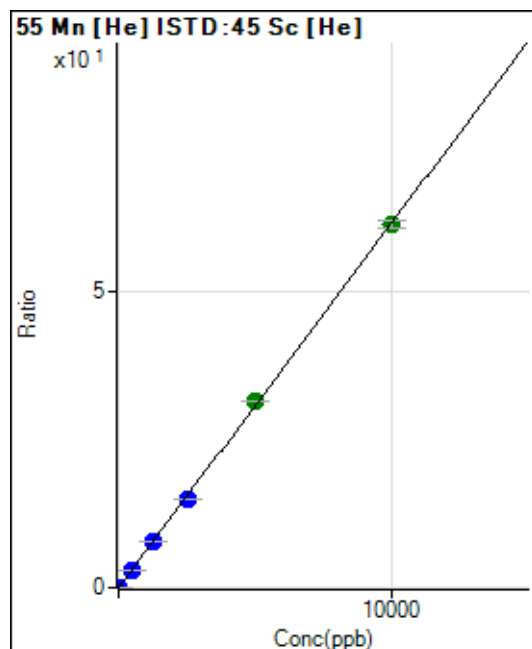
$$R = 1.0000$$

$$DL = 1.674$$

$$BEC = 6.29$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	103.33	0.0003	P	7.9
2	☐	1.000	0.829	1876.80	0.0054	P	3.8
3	☐	500.000	494.639	1037922.82	3.0364	P	0.5
4	☐	1250.000	1253.135	2505456.85	7.6919	P	0.7
5	☐	2500.000	2442.068	4620587.88	14.9895	P	0.5
6	☐	5000.000	5116.726	8983433.61	31.4063	A	0.2
7	☐	10000.000	9955.996	16941789.47	61.1093	A	2.1
8	☐			10673.96	0.0365	P	2.8

$$y = 0.0061 * x + 3.0404E-004$$

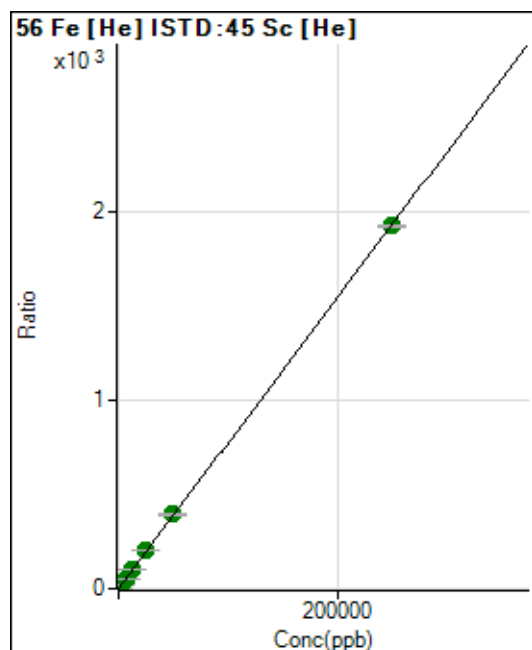
$$R = 0.9999$$

$$DL = 0.01174$$

$$BEC = 0.04953$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4882.36	0.0144	P	1.8
2	☐	50.000	42.415	118681.34	0.3411	P	0.3
3	☐	2500.000	2638.028	6951804.78	20.3369	A	0.6
4	☐	6250.000	6660.299	16717452.46	51.3231	A	0.6
5	☐	12500.000	13087.419	31083371.76	100.8354	A	0.8
6	☐	25000.000	26042.820	57386272.58	200.6395	A	1.0
7	☐	50000.000	51187.442	109328442.2	394.3452	A	1.0
8	☐	250000.00	249617.22	561662994.0	1,922.981	A	0.3

$$y = 0.0077 * x + 0.0144$$

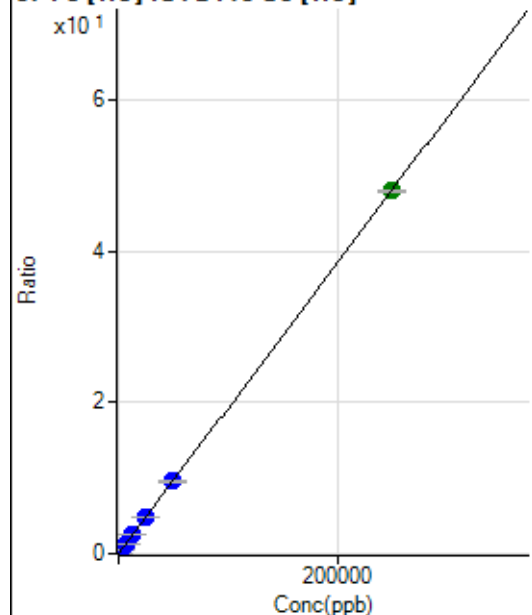
$$R = 1.0000$$

$$DL = 0.103$$

$$BEC = 1.866$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	127.78	0.0004	P	18.5
2	☐	50.000	42.380	2957.75	0.0085	P	7.8
3	☐	2500.000	2631.302	172594.44	0.5049	P	1.3
4	☐	6250.000	6560.323	409850.58	1.2583	P	0.7
5	☐	12500.000	12837.285	758866.27	2.4618	P	0.5
6	☐	25000.000	25661.934	1407464.43	4.9209	P	0.8
7	☐	50000.000	49702.228	2642251.01	9.5304	P	0.3
8	☐	250000.00	249967.42	13999627.63	47.9299	A	0.7

$$y = 1.9174\text{E-}004 * x + 3.7585\text{E-}004$$

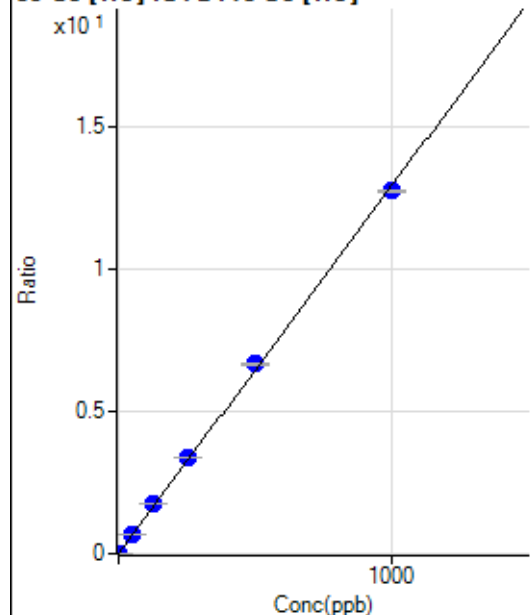
$$R = 1.0000$$

$$DL = 1.089$$

$$BEC = 1.96$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	51.11	0.0002	P	46.1
2	☐	1.000	0.883	4012.81	0.0115	P	2.6
3	☐	50.000	53.469	235687.93	0.6895	P	0.7
4	☐	125.000	134.769	565996.46	1.7376	P	0.4
5	☐	250.000	261.412	1038932.28	3.3703	P	0.3
6	☐	500.000	517.215	1907187.87	6.6682	P	1.2
7	☐	1000.000	987.145	3528380.68	12.7267	P	0.6
8	☐			5787.86	0.0198	P	5.2

$$y = 0.0129 * x + 1.5067\text{E-}004$$

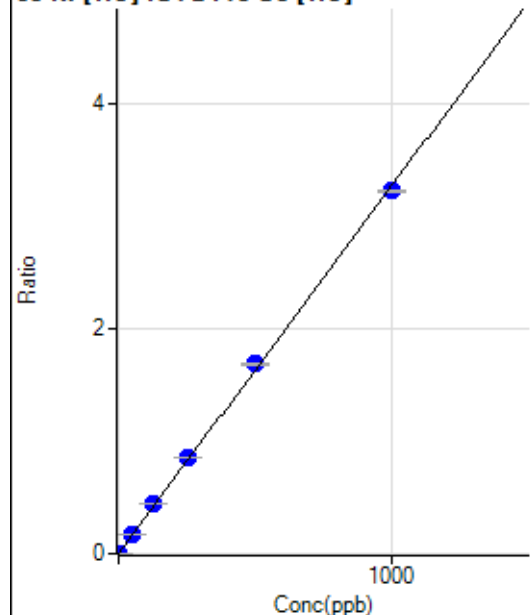
$$R = 0.9997$$

$$DL = 0.01615$$

$$BEC = 0.01169$$

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	173.34	0.0005	P	4.6
2	☐	1.000	0.943	1250.07	0.0036	P	3.3
3	☐	50.000	54.040	60567.55	0.1772	P	0.2
4	☐	125.000	135.688	144663.15	0.4441	P	0.8
5	☐	250.000	262.780	264980.08	0.8596	P	0.6
6	☐	500.000	516.186	482828.23	1.6881	P	0.7
7	☐	1000.000	987.174	894916.31	3.2279	P	0.6
8	☐			4045.05	0.0138	P	1.2

$$y = 0.0033 * x + 5.1030E-004$$

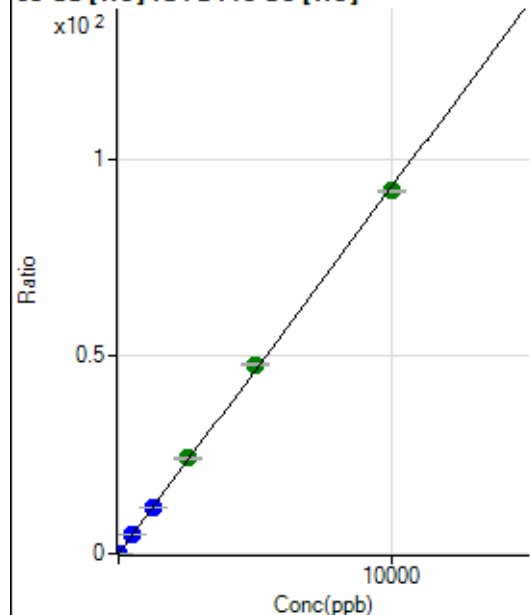
$$R = 0.9997$$

$$DL = 0.02148$$

$$BEC = 0.1561$$

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	626.69	0.0018	P	9.7
2	☐	2.000	1.874	6703.81	0.0193	P	1.1
3	☐	500.000	502.256	1597025.52	4.6720	P	0.4
4	☐	1250.000	1252.110	3792920.60	11.6443	P	0.4
5	☐	2500.000	2610.933	7483786.21	24.2791	A	1.2
6	☐	5000.000	5149.938	13696733.27	47.8875	A	0.8
7	☐	10000.000	9896.921	25513730.45	92.0264	A	0.3
8	☐			8068.96	0.0276	P	4.4

$$y = 0.0093 * x + 0.0018$$

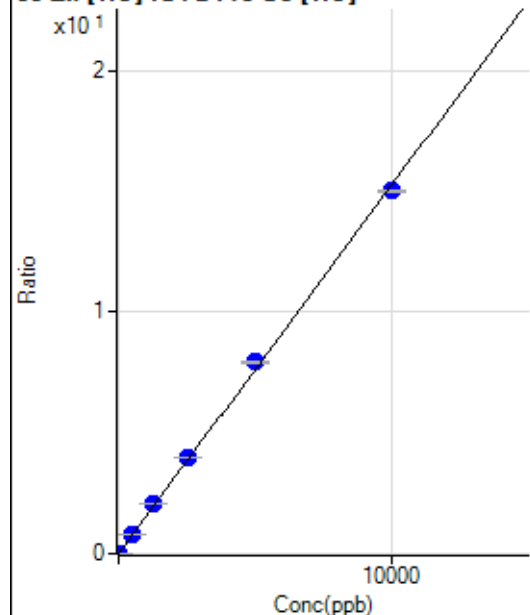
$$R = 0.9998$$

$$DL = 0.05778$$

$$BEC = 0.1983$$

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	306.67	0.0009	P	3.2
2	☐	2.000	2.534	1659.00	0.0048	P	2.0
3	☐	500.000	535.574	279619.54	0.8180	P	0.0
4	☐	1250.000	1355.452	673895.46	2.0689	P	0.1
5	☐	2500.000	2617.564	1231299.85	3.9944	P	0.3
6	☐	5000.000	5213.202	2275136.77	7.9545	P	0.8
7	☐	10000.000	9849.048	4166186.36	15.0272	P	0.2
8	☐			8382.47	0.0287	P	2.0

$$y = 0.0015 * x + 9.0249E-004$$

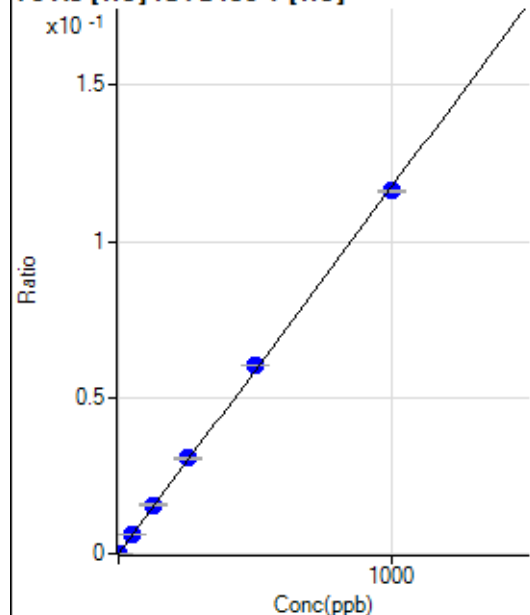
$$R = 0.9996$$

$$DL = 0.05616$$

$$BEC = 0.5915$$

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	12.35	0.0000	P	45.8
2	☐	1.000	0.791	259.88	0.0001	P	5.8
3	☐	50.000	53.002	16288.75	0.0062	P	1.1
4	☐	125.000	133.040	39242.16	0.0156	P	1.2
5	☐	250.000	260.232	72690.44	0.0305	P	0.6
6	☐	500.000	513.541	135110.70	0.0603	P	0.2
7	☐	1000.000	989.517	253436.62	0.1161	P	0.6
8	☐			95.06	0.0000	P	8.9

$$y = 1.1735E-004 * x + 4.7529E-006$$

$$R = 0.9998$$

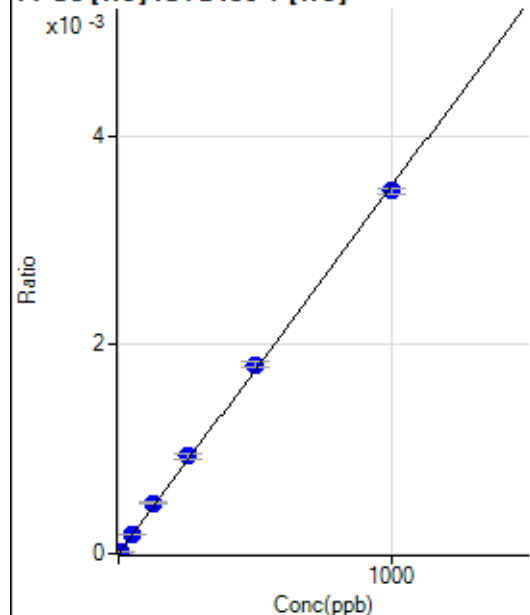
$$DL = 0.05569$$

$$BEC = 0.0405$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	5.000	3.557	34.45	0.0000	P	39.5
3	☐	50.000	51.239	473.35	0.0002	P	6.1
4	☐	125.000	136.873	1212.29	0.0005	P	4.1
5	☐	250.000	264.778	2220.19	0.0009	P	6.4
6	☐	500.000	515.103	4068.39	0.0018	P	2.6
7	☐	1000.000	987.215	7588.71	0.0035	P	1.7
8	☐			1.11	0.0000	P	173.2

$$y = 3.5221\text{E-}006 * x + 4.2637\text{E-}007$$

$$R = 0.9996$$

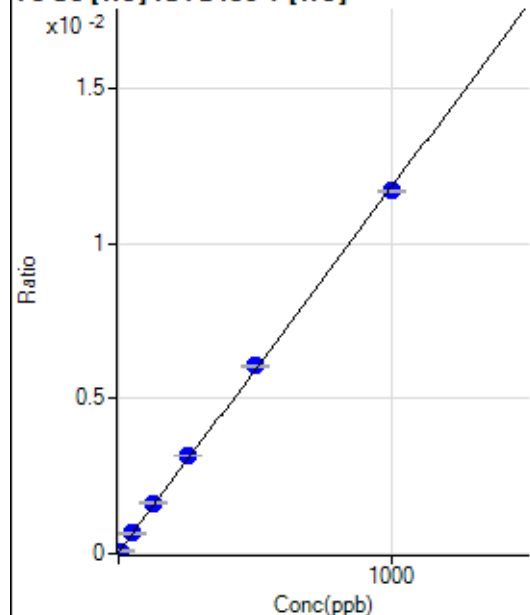
$$DL = 0.629$$

$$BEC = 0.1211$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	109.26	0.0000	P	6.0
2	☐	5.000	3.938	235.81	0.0001	P	14.8
3	☐	50.000	52.249	1722.33	0.0007	P	2.0
4	☐	125.000	135.740	4127.77	0.0016	P	0.9
5	☐	250.000	264.114	7512.46	0.0032	P	0.9
6	☐	500.000	510.694	13593.43	0.0061	P	1.6
7	☐	1000.000	989.675	25561.96	0.0117	P	0.8
8	☐			79.63	0.0000	P	26.3

$$y = 1.1792\text{E-}005 * x + 4.2062\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.6429$$

$$BEC = 3.567$$

Weight: <None>

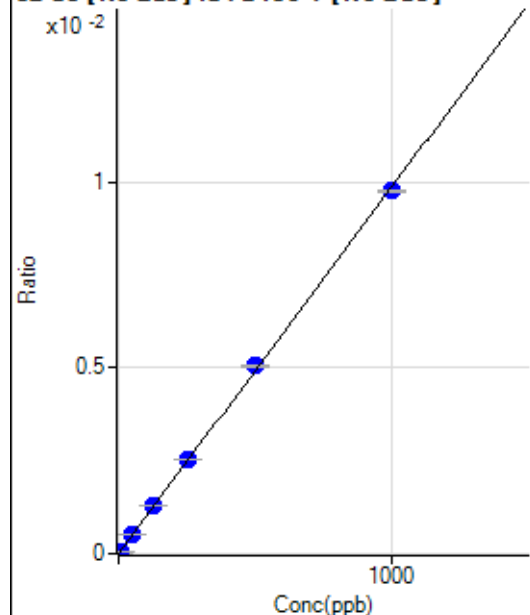
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6220.95		P	0.5
2	☐			6876.81		P	7.7
3	☐			6937.97		P	5.9
4	☐			6518.29		P	6.4
5	☐			5612.36		P	1.6
6	☐			5237.20		P	7.2
7	☐			5037.14		P	2.3
8	☐			4995.45		P	1.1

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.68		P	124.9
2	☐			36.70		P	63.0
3	☐			23.36		P	49.5
4	☐			46.71		P	32.7
5	☐			26.69		P	43.3
6	☐			43.38		P	48.0
7	☐			33.37		P	86.6
8	☐			56.72		P	36.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	-2.15	0.0000	P	-1394.
2	☐	5.000	4.820	586.78	0.0000	P	3.7
3	☐	50.000	54.441	6559.99	0.0005	P	0.9
4	☐	125.000	131.648	15568.10	0.0013	P	0.7
5	☐	250.000	256.984	29458.38	0.0025	P	0.6
6	☐	500.000	513.498	54085.80	0.0051	P	1.1
7	☐	1000.000	990.453	100260.28	0.0098	P	0.4
8	☐			62.01	0.0000	P	107.1

$$y = 9.8663E-006 * x - 1.6554E-007$$

R = 0.9998

DL = 0.7017

BEC = -0.01678

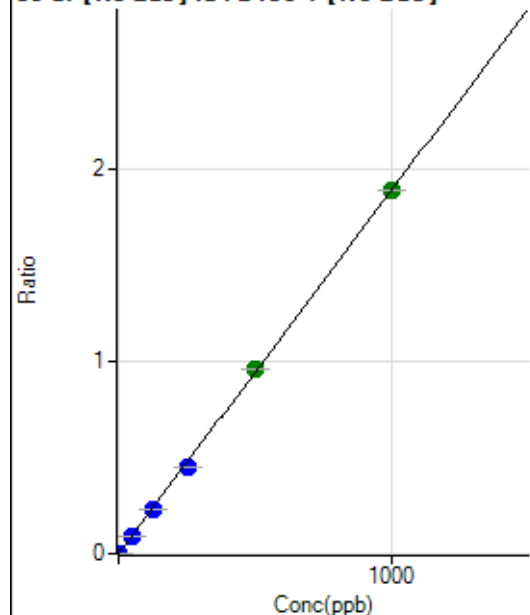
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			706.69		P	2.9
2	☐			617.80		P	4.6
3	☐			653.35		P	8.4
4	☐			686.69		P	4.3
5	☐			645.58		P	11.4
6	☐			570.02		P	10.2
7	☐			525.57		P	6.5
8	☐			576.69		P	8.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	991.74	0.0001	P	9.2
2	☐	1.000	0.086	3047.62	0.0002	P	3.1
3	☐	50.000	49.109	1135972.76	0.0930	P	0.4
4	☐	125.000	122.313	2774660.09	0.2315	P	1.3
5	☐	250.000	238.237	5237361.49	0.4508	P	0.4
6	☐	500.000	509.550	10292193.03	0.9640	A	0.2
7	☐	1000.000	998.547	19381890.02	1.8891	A	0.1
8	☐			5595.66	0.0005	P	3.5

$$y = 0.0019 * x + 8.2588E-005$$

$$R = 0.9999$$

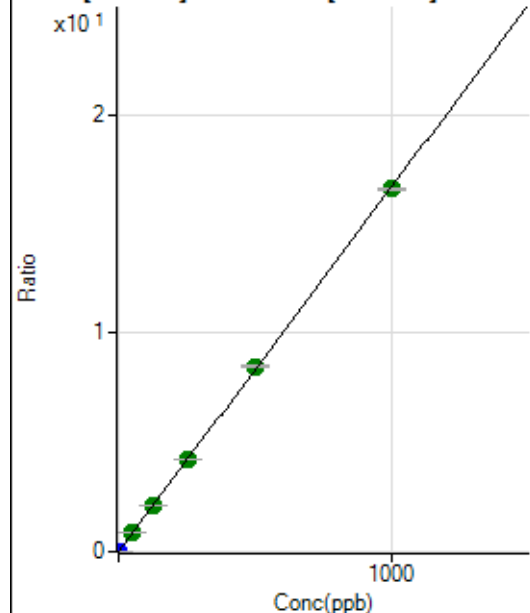
$$DL = 0.01202$$

$$BEC = 0.04366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	180.56	0.0000	P	27.8
2	☐	1.000	0.081	17018.77	0.0014	P	1.1
3	☐	50.000	50.450	10291950.67	0.8424	A	0.2
4	☐	125.000	128.013	25623345.01	2.1376	A	1.6
5	☐	250.000	251.542	48801865.67	4.2002	A	0.5
6	☐	500.000	508.067	90571805.50	8.4837	A	0.8
7	☐	1000.000	995.183	170493419.0	16.6175	A	0.7
8	☐			43914.71	0.0043	P	0.6

$$y = 0.0167 * x + 1.5069E-005$$

$$R = 0.9999$$

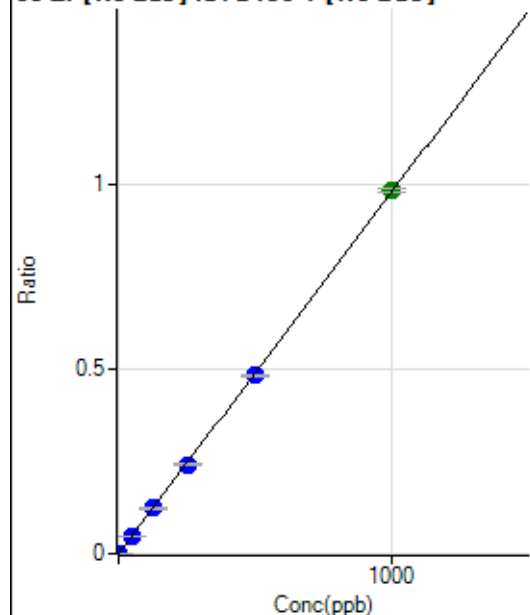
$$DL = 0.0007528$$

$$BEC = 0.0009025$$

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	647.25	0.0001	P	8.8
2	☐	1.000	0.799	10356.78	0.0008	P	2.9
3	☐	50.000	49.742	595913.21	0.0488	P	0.7
4	☐	125.000	125.599	1475398.48	0.1231	P	1.6
5	☐	250.000	247.069	2812431.01	0.2421	P	1.2
6	☐	500.000	493.742	5163709.97	0.4837	P	1.0
7	☐	1000.000	1003.800	10088432.95	0.9833	A	1.0
8	☐			2375.26	0.0002	P	5.3

$$y = 9.7951E-004 * x + 5.3898E-005$$

$$R = 1.0000$$

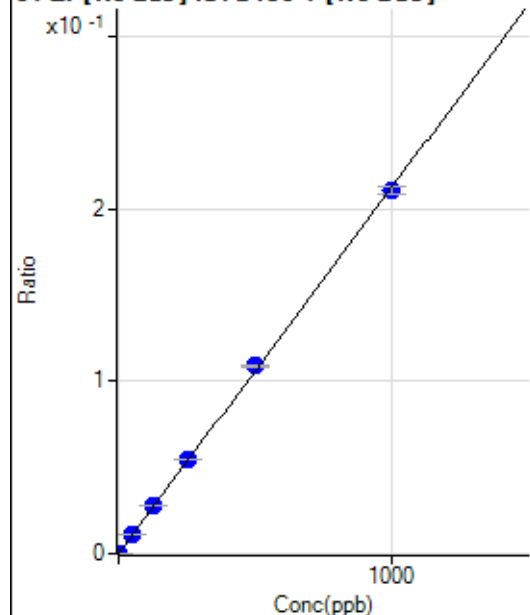
$$DL = 0.01456$$

$$BEC = 0.05503$$

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	144.45	0.0000	P	24.5
2	☐	1.000	0.839	2355.80	0.0002	P	6.9
3	☐	50.000	51.581	134043.61	0.0110	P	0.4
4	☐	125.000	130.314	332055.79	0.0277	P	1.3
5	☐	250.000	255.438	630760.20	0.0543	P	0.0
6	☐	500.000	512.510	1162715.99	0.1089	P	0.8
7	☐	1000.000	991.642	2161848.75	0.2107	P	2.0
8	☐			569.47	0.0001	P	7.9

$$y = 2.1248E-004 * x + 1.2042E-005$$

$$R = 0.9999$$

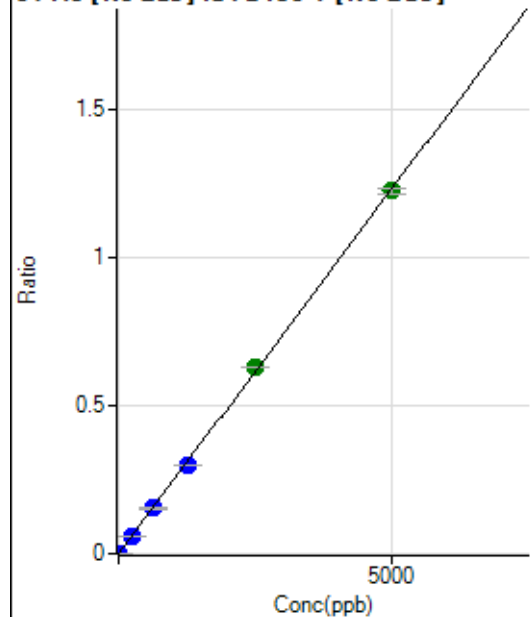
$$DL = 0.04164$$

$$BEC = 0.05667$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	236.12	0.0000	P	25.4
2	☐	5.000	3.889	12111.01	0.0010	P	3.0
3	☐	250.000	247.505	745841.68	0.0610	P	0.7
4	☐	625.000	622.935	1841497.29	0.1536	P	1.1
5	☐	1250.000	1213.294	3476336.97	0.2992	P	0.1
6	☐	2500.000	2562.405	6745896.59	0.6319	A	0.7
7	☐	5000.000	4978.358	12594498.54	1.2276	A	1.9
8	☐			4528.61	0.0004	P	2.3

$$y = 2.4658E-004 * x + 1.9681E-005$$

$$R = 0.9999$$

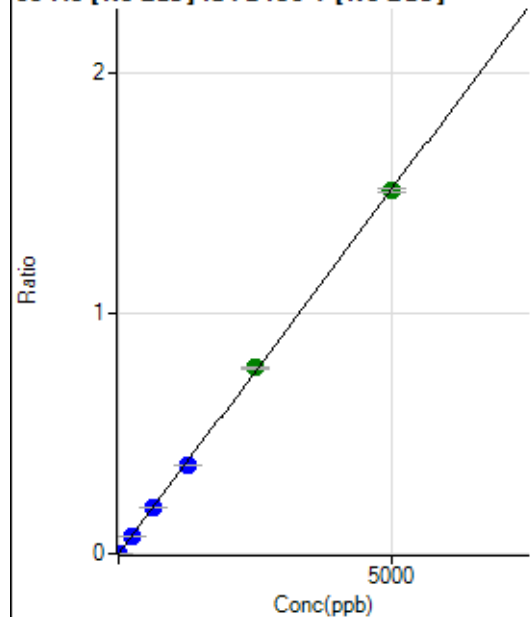
$$DL = 0.06089$$

$$BEC = 0.07982$$

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	43.7
2	☐	5.000	4.066	15277.95	0.0012	P	3.4
3	☐	250.000	246.312	912012.57	0.0747	P	0.3
4	☐	625.000	625.581	2272716.50	0.1896	P	0.9
5	☐	1250.000	1216.873	4285039.77	0.3688	P	0.5
6	☐	2500.000	2554.698	8265980.31	0.7742	A	0.6
7	☐	5000.000	4981.045	15488047.92	1.5096	A	1.2
8	☐			6223.74	0.0006	P	11.5

$$y = 3.0307E-004 * x + 1.8536E-006$$

$$R = 0.9999$$

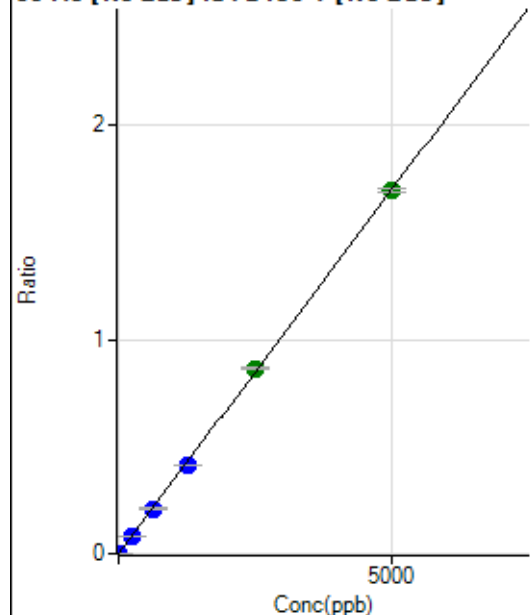
$$DL = 0.008021$$

$$BEC = 0.006116$$

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	86.11	0.0000	P	27.5
2	☐	5.000	3.959	16721.23	0.0014	P	1.2
3	☐	250.000	246.151	1020827.65	0.0836	P	0.6
4	☐	625.000	620.402	2524307.57	0.2106	P	1.5
5	☐	1250.000	1209.007	4768098.55	0.4104	P	0.5
6	☐	2500.000	2544.700	9221451.25	0.8637	A	0.6
7	☐	5000.000	4988.667	17372782.16	1.6933	A	1.0
8	☐			7630.00	0.0007	P	7.1

$$y = 3.3943\text{E-}004 * x + 7.1674\text{E-}006$$

$$R = 0.9999$$

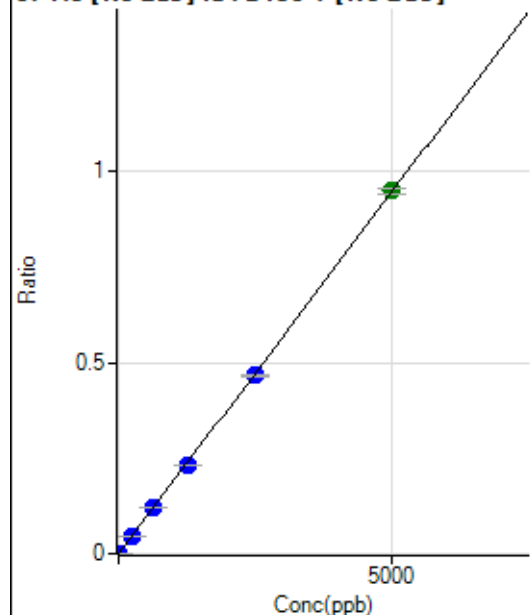
$$DL = 0.01743$$

$$BEC = 0.02112$$

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	22.22	0.0000	P	78.6
2	☐	5.000	3.947	9247.65	0.0007	P	4.5
3	☐	250.000	249.544	575546.68	0.0471	P	0.4
4	☐	625.000	630.535	1426850.02	0.1190	P	1.1
5	☐	1250.000	1226.417	2689979.12	0.2315	P	0.8
6	☐	2500.000	2465.825	4969627.28	0.4655	P	0.7
7	☐	5000.000	5022.315	9727169.66	0.9481	A	1.5
8	☐			3875.63	0.0004	P	9.0

$$y = 1.8878\text{E-}004 * x + 1.8585\text{E-}006$$

$$R = 0.9999$$

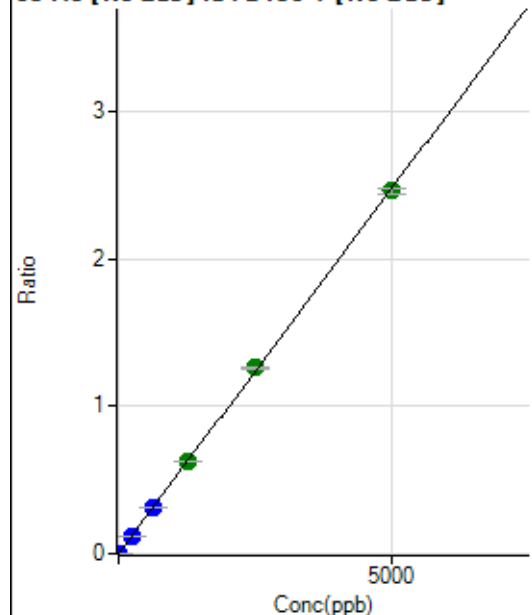
$$DL = 0.0232$$

$$BEC = 0.009845$$

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	33.33	0.0000	P	0.9
2	☐	5.000	3.927	24076.31	0.0019	P	1.1
3	☐	250.000	247.637	1496604.96	0.1225	P	0.7
4	☐	625.000	623.911	3699681.42	0.3086	P	1.3
5	☐	1250.000	1259.662	7240091.83	0.6231	A	0.4
6	☐	2500.000	2553.543	13485433.90	1.2632	A	1.2
7	☐	5000.000	4971.068	25229114.10	2.4591	A	1.9
8	☐			9795.21	0.0010	P	6.6

$$y = 4.9468\text{E-}004 * x + 2.7770\text{E-}006$$

$$R = 0.9999$$

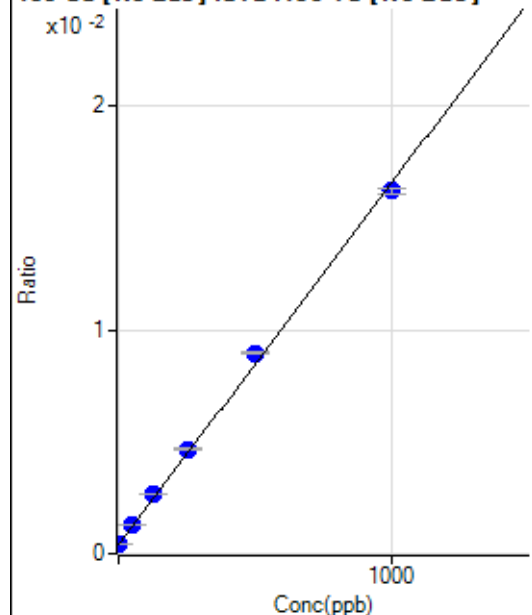
$$DL = 0.0001586$$

$$BEC = 0.005614$$

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	4798.16	0.0004	P	2.5
2	☐	1.000	1.944	5306.69	0.0004	P	4.2
3	☐	50.000	55.515	16134.50	0.0013	P	2.1
4	☐	125.000	140.620	32921.99	0.0027	P	1.5
5	☐	250.000	265.055	56900.07	0.0047	P	0.3
6	☐	500.000	530.945	104204.92	0.0090	P	0.4
7	☐	1000.000	978.534	185464.65	0.0162	P	1.3
8	☐			4286.86	0.0004	P	2.2

$$y = 1.6165\text{E-}005 * x + 3.9463\text{E-}004$$

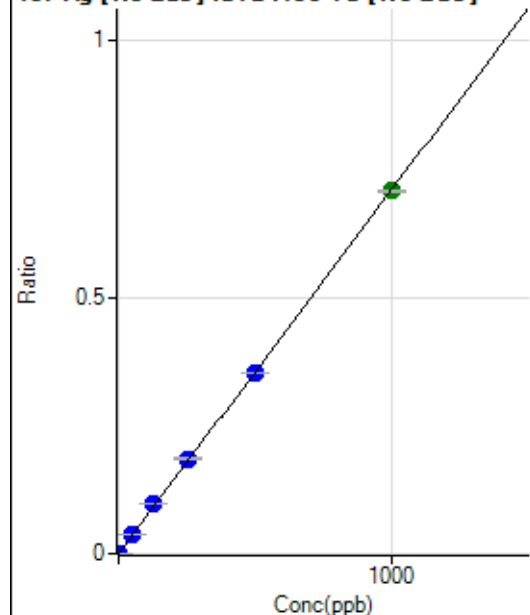
$$R = 0.9991$$

$$DL = 1.81$$

$$BEC = 24.41$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	32.8
2	☐	1.000	0.852	7579.99	0.0006	P	3.1
3	☐	50.000	54.636	483558.03	0.0387	P	0.6
4	☐	125.000	136.607	1194708.02	0.0968	P	0.2
5	☐	250.000	260.559	2245117.80	0.1846	P	1.1
6	☐	500.000	496.164	4081190.28	0.3516	P	0.2
7	☐	1000.000	997.596	8087004.00	0.7069	A	0.3
8	☐			2002.98	0.0002	P	7.5

$$y = 7.0861E-004 * x + 5.0063E-006$$

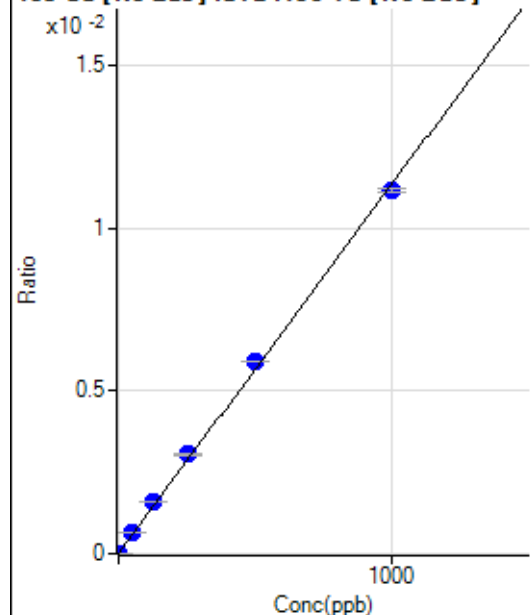
$$R = 0.9999$$

$$DL = 0.006951$$

$$BEC = 0.007065$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	38.89	0.0000	P	68.4
2	☐	1.000	1.095	194.45	0.0000	P	8.7
3	☐	50.000	56.270	7999.54	0.0006	P	2.2
4	☐	125.000	139.193	19498.23	0.0016	P	0.9
5	☐	250.000	268.636	37039.92	0.0030	P	1.7
6	☐	500.000	520.351	68455.39	0.0059	P	0.5
7	☐	1000.000	983.078	127426.89	0.0111	P	0.9
8	☐			123.61	0.0000	P	26.4

$$y = 1.1327E-005 * x + 3.2156E-006$$

$$R = 0.9994$$

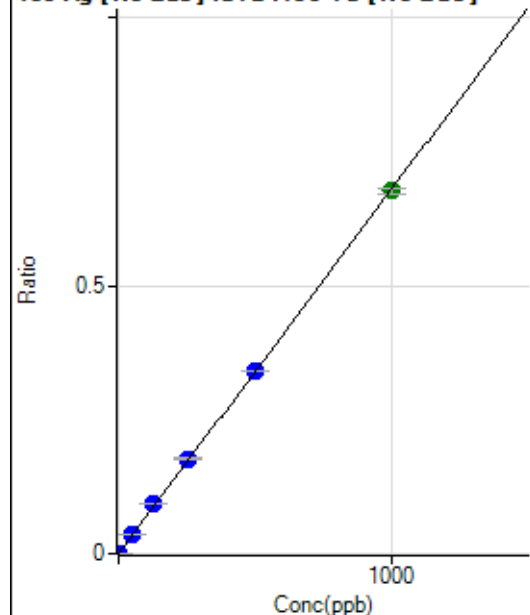
$$DL = 0.5829$$

$$BEC = 0.2839$$

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	25.00	0.0000	P	31.8
2	☐	1.000	0.868	7379.91	0.0006	P	1.9
3	☐	50.000	54.850	465901.11	0.0373	P	0.9
4	☐	125.000	136.162	1142872.05	0.0926	P	0.9
5	☐	250.000	260.495	2154211.51	0.1772	P	1.5
6	☐	500.000	499.816	3945910.16	0.3399	P	0.3
7	☐	1000.000	995.831	7747708.94	0.6773	A	1.3
8	☐			2144.66	0.0002	P	0.9

$$y = 6.8012\text{E-}004 * x + 2.0477\text{E-}006$$

$$R = 0.9999$$

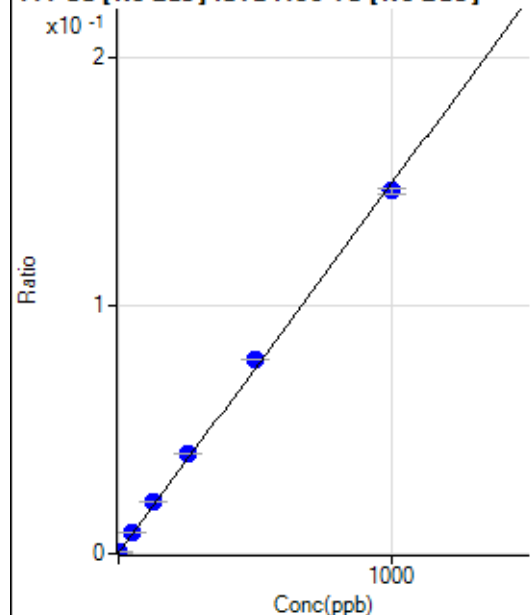
$$DL = 0.002869$$

$$BEC = 0.003011$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3343.99	0.0003	P	2.4
2	☐	1.000	1.234	5710.69	0.0005	P	2.6
3	☐	50.000	56.098	107627.71	0.0086	P	1.6
4	☐	125.000	139.761	259917.45	0.0211	P	1.2
5	☐	250.000	268.524	488956.45	0.0402	P	1.3
6	☐	500.000	525.333	910138.50	0.0784	P	0.4
7	☐	1000.000	980.552	1671428.79	0.1461	P	1.7
8	☐			3262.90	0.0003	P	1.4

$$y = 1.4873\text{E-}004 * x + 2.7502\text{E-}004$$

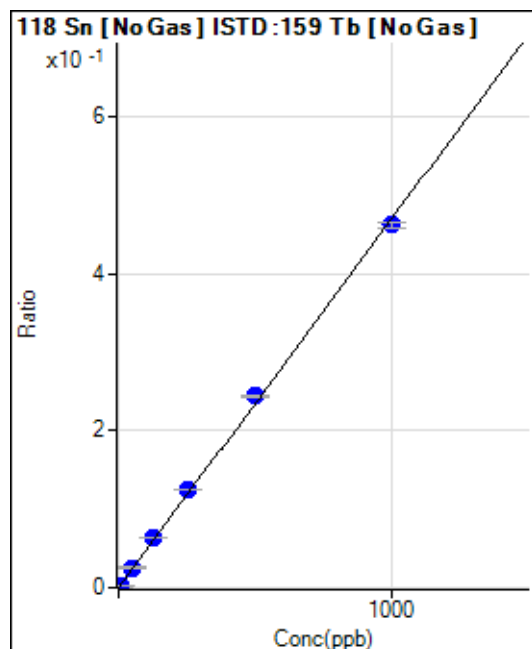
$$R = 0.9993$$

$$DL = 0.1345$$

$$BEC = 1.849$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	711.15	0.0001	P	3.4
2	☐	5.000	4.356	26233.30	0.0021	P	4.2
3	☐	50.000	54.484	320647.73	0.0257	P	1.2
4	☐	125.000	136.608	793358.63	0.0643	P	1.1
5	☐	250.000	265.720	1519804.79	0.1250	P	1.2
6	☐	500.000	519.937	2838298.98	0.2445	P	0.8
7	☐	1000.000	984.430	5295441.31	0.4629	P	1.4
8	☐			3005.96	0.0003	P	0.6

$$y = 4.7017\text{E-}004 * x + 5.8477\text{E-}005$$

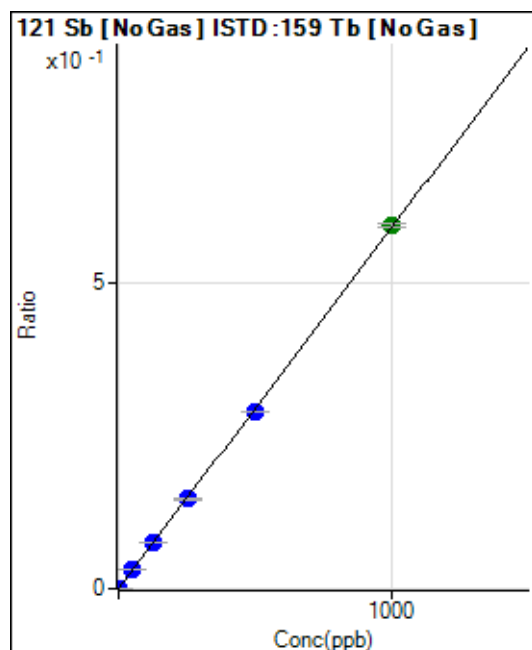
$$R = 0.9995$$

$$DL = 0.0126$$

$$BEC = 0.1244$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	91.67	0.0000	P	22.6
2	☐	2.000	1.656	12286.18	0.0010	P	1.7
3	☐	50.000	50.916	375947.86	0.0301	P	1.1
4	☐	125.000	127.224	928146.51	0.0752	P	0.9
5	☐	250.000	248.258	1784385.24	0.1468	P	1.3
6	☐	500.000	490.024	3362294.30	0.2897	P	0.8
7	☐	1000.000	1005.100	6796426.54	0.5941	A	1.0
8	☐			7163.11	0.0006	P	5.5

$$y = 5.9109\text{E-}004 * x + 7.5219\text{E-}006$$

$$R = 0.9999$$

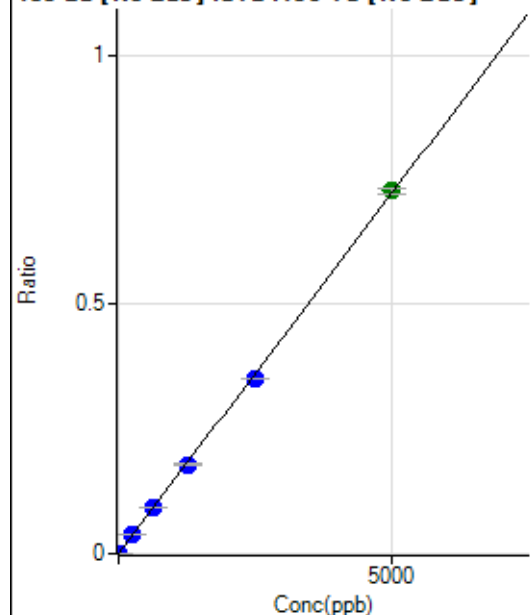
$$DL = 0.008628$$

$$BEC = 0.01273$$

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	52.78	0.0000	P	26.2
2	☐	10.000	8.151	14730.37	0.0012	P	3.5
3	☐	250.000	255.215	460900.29	0.0369	P	0.4
4	☐	625.000	640.622	1143139.53	0.0926	P	1.5
5	☐	1250.000	1234.725	2170826.31	0.1785	P	1.2
6	☐	2500.000	2429.074	4076929.56	0.3512	P	0.8
7	☐	5000.000	5037.072	8331383.26	0.7283	A	1.3
8	☐			2489.18	0.0002	P	2.8

$$y = 1.4459\text{E-}004 * x + 4.3542\text{E-}006$$

$$R = 0.9998$$

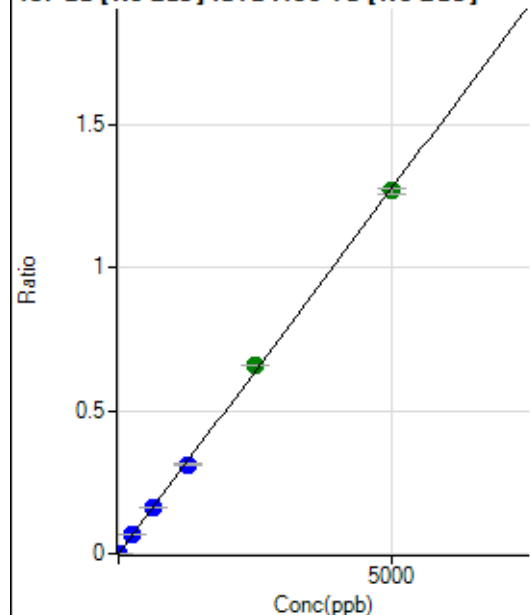
$$DL = 0.02365$$

$$BEC = 0.03011$$

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	30.56	0.0000	P	41.7
2	☐	10.000	8.190	26083.22	0.0021	P	2.7
3	☐	250.000	251.545	802482.69	0.0643	P	0.3
4	☐	625.000	628.835	1982302.54	0.1606	P	1.4
5	☐	1250.000	1219.639	3788178.29	0.3115	P	1.3
6	☐	2500.000	2575.008	7635068.92	0.6578	A	0.5
7	☐	5000.000	4969.533	14521197.20	1.2694	A	1.5
8	☐			4195.20	0.0004	P	2.8

$$y = 2.5544\text{E-}004 * x + 2.5171\text{E-}006$$

$$R = 0.9998$$

$$DL = 0.01233$$

$$BEC = 0.009854$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			44.45		P	52.7
4	☐			93.34		P	31.1
5	☐			144.45		P	14.8
6	☐			282.23		P	26.0
7	☐			615.58		P	13.7
8	☐			13.33		P	50.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			1.11		P	173.2
3	☐			10.00		P	57.8
4	☐			14.45		P	48.0
5	☐			26.67		P	37.5
6	☐			37.78		P	22.2
7	☐			104.45		P	18.7
8	☐			16.67		P	105.8

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.33		P	100.0
2	☐			2.78		P	173.2
3	☐			50.00		P	60.1
4	☐			80.56		P	21.5
5	☐			141.67		P	11.8
6	☐			269.46		P	9.4
7	☐			541.69		P	14.7
8	☐			1300.10		P	3.8

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	0.0
2	☐			6.67		P	100.0
3	☐			21.11		P	18.2
4	☐			55.56		P	22.7
5	☐			104.45		P	35.2
6	☐			165.56		P	19.6
7	☐			380.01		P	11.8
8	☐			883.37		P	0.7

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

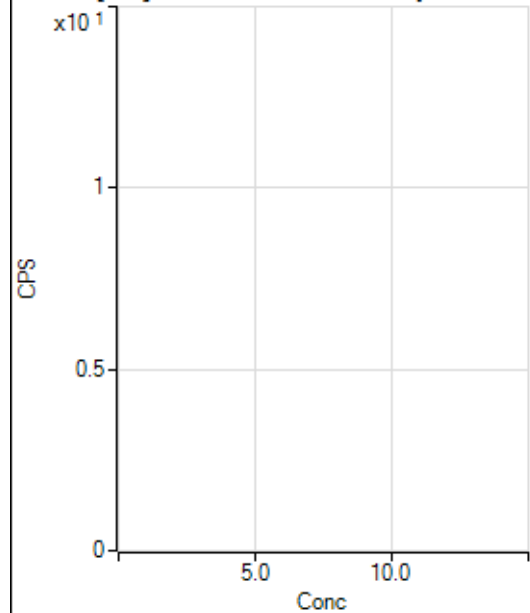
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.78		P	24.1
2	☐			55.56		P	31.2
3	☐			88.89		P	30.1
4	☐			130.56		P	13.3
5	☐			138.89		P	30.2
6	☐			300.01		P	13.9
7	☐			530.58		P	14.6
8	☐			1550.13		P	10.3

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			88.89		P	15.6
2	☐			98.89		P	16.6
3	☐			106.67		P	13.6
4	☐			144.45		P	11.8
5	☐			154.45		P	6.9
6	☐			261.12		P	6.0
7	☐			396.68		P	2.2
8	☐			1072.28		P	5.4

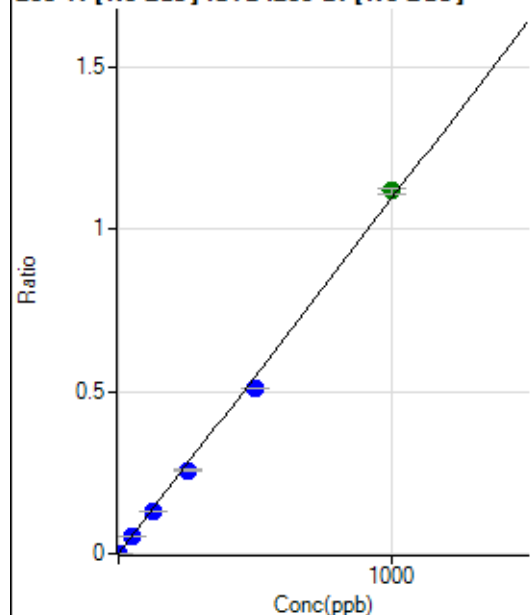
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			108.34		P	33.5
2	☐			94.45		P	5.1
3	☐			88.89		P	76.4
4	☐			97.22		P	38.7
5	☐			105.56		P	24.1
6	☐			130.56		P	61.3
7	☐			202.78		P	24.1
8	☐			300.01		P	16.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			51.11		P	7.5
2	☐			42.22		P	12.1
3	☐			58.89		P	19.9
4	☐			64.44		P	23.3
5	☐			61.11		P	13.7
6	☐			81.11		P	2.4
7	☐			105.56		P	14.6
8	☐			150.00		P	8.0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	236.12	0.0000	P	17.0
2	☐	1.000	0.775	7594.05	0.0009	P	2.0
3	☐	50.000	47.107	444110.91	0.0515	P	0.2
4	☐	125.000	119.407	1113509.26	0.1305	P	0.6
5	☐	250.000	234.452	2142040.78	0.2563	P	1.6
6	☐	500.000	465.669	4103177.22	0.5090	P	0.9
7	☐	1000.000	1021.897	8737748.98	1.1170	A	1.5
8	☐			3664.50	0.0006	P	11.4

$$y = 0.0011 * x + 2.8003E-005$$

$$R = 0.9990$$

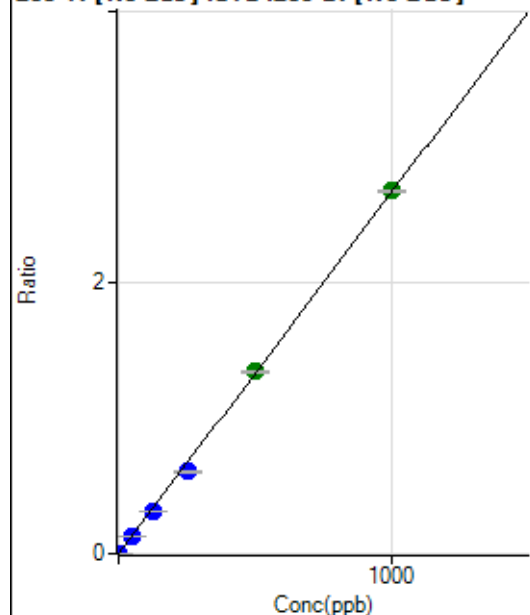
$$DL = 0.01305$$

$$BEC = 0.02562$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	602.81	0.0001	P	7.4
2	☐	1.000	0.748	17912.43	0.0021	P	2.5
3	☐	50.000	46.220	1062014.76	0.1232	P	1.0
4	☐	125.000	117.006	2659196.70	0.3118	P	0.5
5	☐	250.000	227.597	5067825.42	0.6064	P	1.9
6	☐	500.000	504.516	10834122.12	1.3440	A	1.3
7	☐	1000.000	1004.531	20933861.75	2.6760	A	0.6
8	☐			8491.87	0.0013	P	15.9

$$y = 0.0027 * x + 7.1481E-005$$

$$R = 0.9997$$

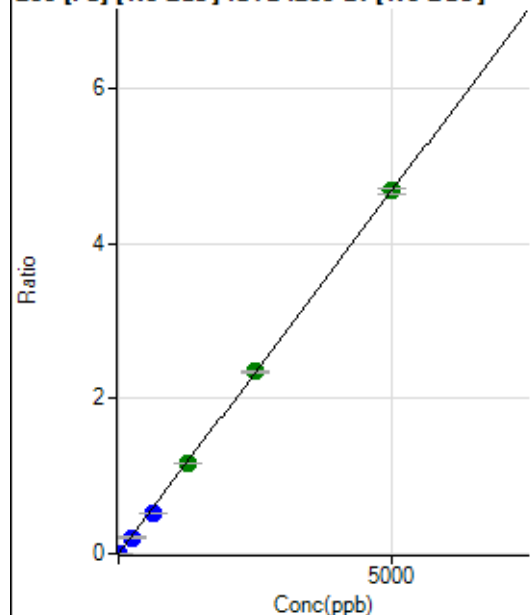
$$DL = 0.005955$$

$$BEC = 0.02683$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1429.73	0.0002	P	1.8
2	☐	1.000	0.725	7357.72	0.0008	P	1.7
3	☐	250.000	225.048	1814389.26	0.2105	P	0.2
4	☐	625.000	561.735	4478838.24	0.5251	P	0.6
5	☐	1250.000	1248.562	9753695.13	1.1669	A	1.5
6	☐	2500.000	2514.035	18939043.94	2.3495	A	0.7
7	☐	5000.000	5002.498	36568783.23	4.6749	A	1.3
8	☐			20632.86	0.0031	P	7.7

$$y = 9.3448\text{E-}004 * x + 1.6960\text{E-}004$$

$$R = 0.9999$$

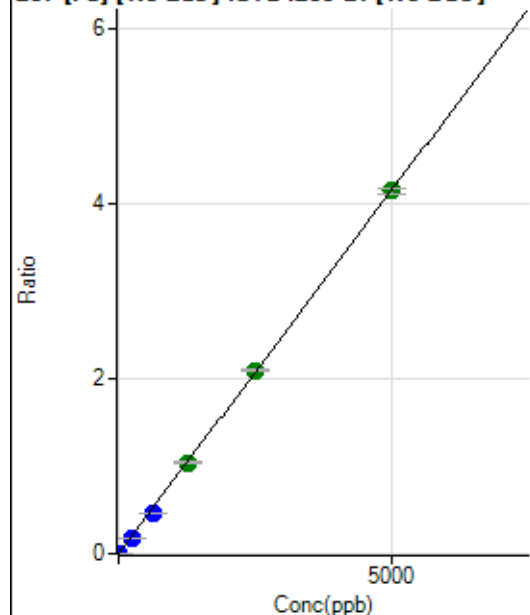
$$DL = 0.009924$$

$$BEC = 0.1815$$

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	1224.16	0.0001	P	5.7
2	☐	1.000	0.735	6559.13	0.0008	P	1.7
3	☐	250.000	223.927	1604278.74	0.1861	P	0.8
4	☐	625.000	560.859	3973880.56	0.4659	P	0.8
5	☐	1250.000	1257.025	8726624.39	1.0440	A	0.6
6	☐	2500.000	2523.325	16892223.88	2.0956	A	1.0
7	☐	5000.000	4995.903	32453469.48	4.1488	A	1.5
8	☐			18602.06	0.0028	P	8.2

$$y = 8.3042\text{E-}004 * x + 1.4526\text{E-}004$$

$$R = 0.9999$$

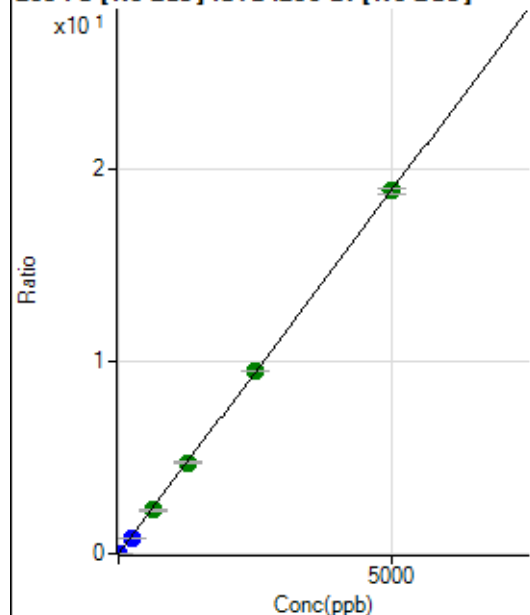
$$DL = 0.02979$$

$$BEC = 0.1749$$

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	5737.63	0.0007	P	3.2
2	☐	1.000	0.724	29694.94	0.0034	P	1.3
3	☐	250.000	223.691	7302867.66	0.8471	P	0.8
4	☐	625.000	597.060	19276866.84	2.2600	A	0.5
5	☐	1250.000	1252.129	39609937.11	4.7388	A	1.0
6	☐	2500.000	2517.509	76797431.69	9.5271	A	0.8
7	☐	5000.000	4995.521	147874585.9	18.9040	A	1.3
8	☐			83668.34	0.0126	P	7.3

$$y = 0.0038 * x + 6.8089E-004$$

$$R = 1.0000$$

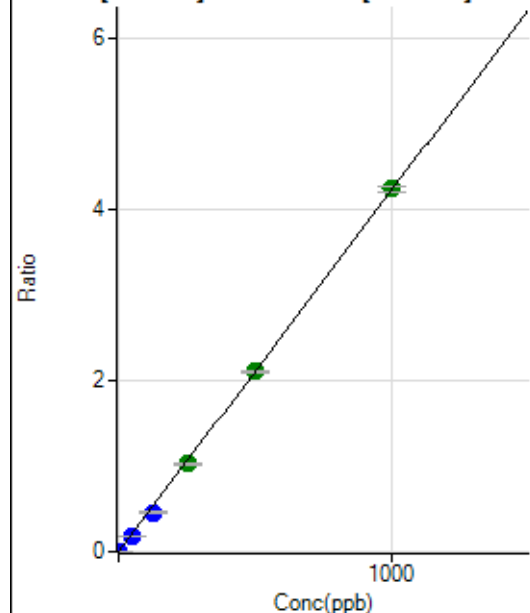
$$DL = 0.01739$$

$$BEC = 0.1799$$

Weight: <None>

Min Conc: 0

232 Th [No Gas] ISTD :209 Bi [No Gas]



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	168.52	0.0000	P	15.4
2	☐	1.000	0.000	161.11	0.0000	P	1.2
3	☐	50.000	42.941	1565483.06	0.1816	P	0.3
4	☐	125.000	109.050	3933483.88	0.4611	P	0.9
5	☐	250.000	243.314	8599386.88	1.0289	A	1.4
6	☐	500.000	499.298	17019281.52	2.1113	A	0.6
7	☐	1000.000	1004.370	33221628.98	4.2470	A	1.5
8	☐			3774.69	0.0006	P	15.7

$$y = 0.0042 * x + 1.9968E-005$$

$$R = 0.9999$$

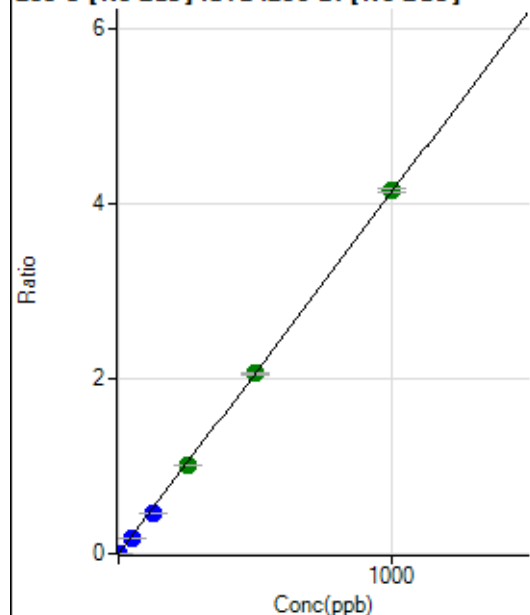
$$DL = 0.002186$$

$$BEC = 0.004722$$

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	11.11	0.0000	P	114.7
2	☐	1.000	0.688	24657.14	0.0028	P	2.5
3	☐	50.000	43.642	1551148.42	0.1799	P	0.4
4	☐	125.000	111.679	3927527.60	0.4604	P	0.8
5	☐	250.000	244.933	8440706.87	1.0099	A	0.9
6	☐	500.000	497.942	16549233.53	2.0530	A	0.7
7	☐	1000.000	1004.279	32390041.00	4.1406	A	1.2
8	☐			3369.99	0.0005	P	10.9

$$y = 0.0041 * x + 1.3092E-006$$

$$R = 0.9999$$

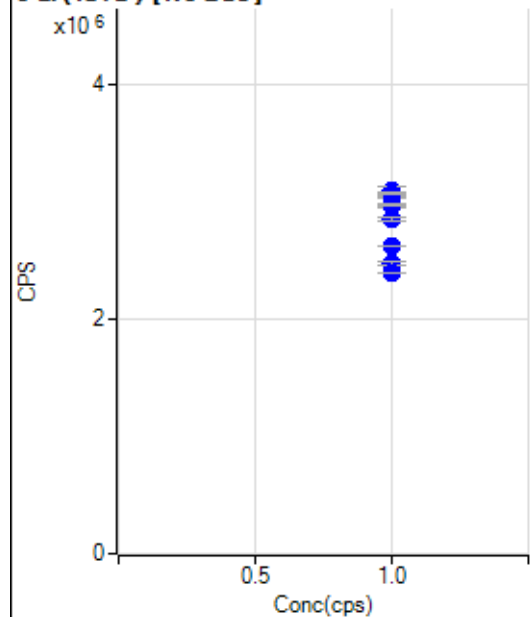
$$DL = 0.001092$$

$$BEC = 0.0003175$$

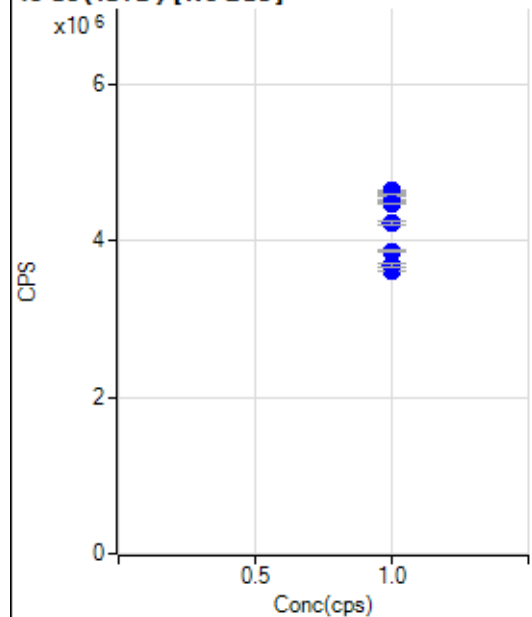
Weight: <None>

Min Conc: 0

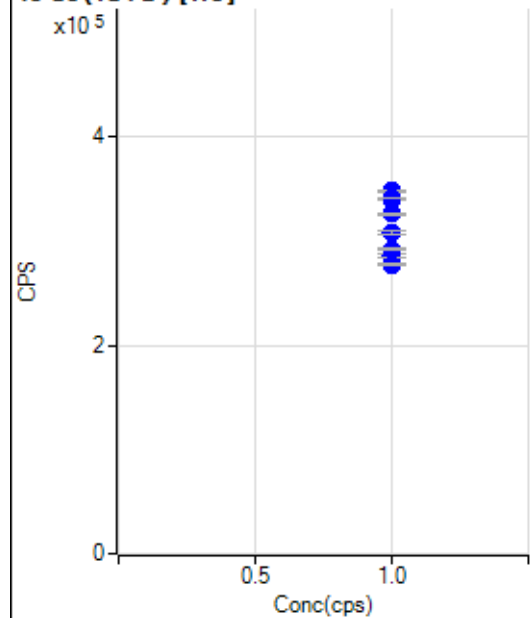
6 Li (ISTD) [No Gas]



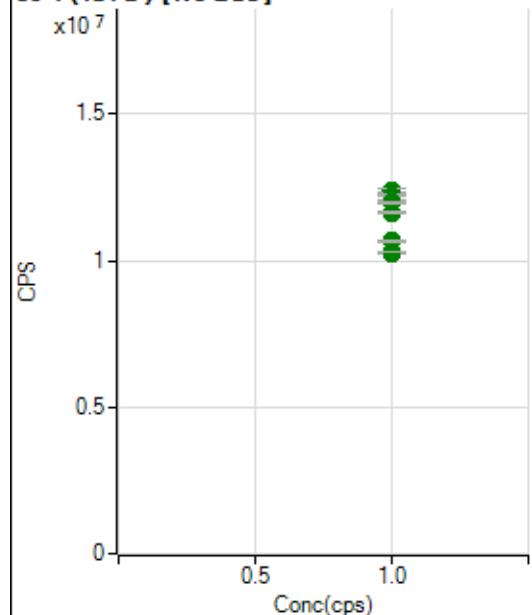
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		2990302.18		P	2.6
2	☐	1.000		3096090.47		P	2.3
3	☐	1.000		3075786.55		P	0.4
4	☐	1.000		2977957.25		P	0.8
5	☐	1.000		2855086.83		P	1.5
6	☐	1.000		2626142.48		P	0.3
7	☐	1.000		2480046.70		P	1.2
8	☐	1.000		2398165.17		P	0.3

45 Sc (ISTD) [No Gas]

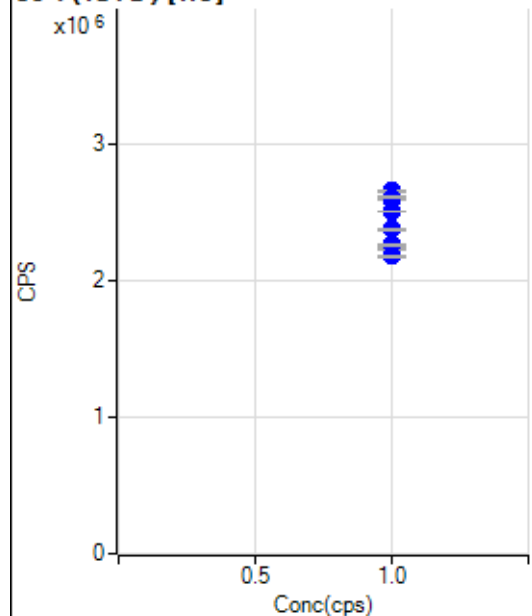
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4520378.27		P	0.9
2	☐	1.000		4642655.38		P	0.3
3	☐	1.000		4593026.43		P	0.5
4	☐	1.000		4482993.09		P	0.3
5	☐	1.000		4230910.60		P	1.7
6	☐	1.000		3864710.47		P	0.6
7	☐	1.000		3622705.46		P	0.3
8	☐	1.000		3687957.03		P	1.0

45 Sc (ISTD) [He]

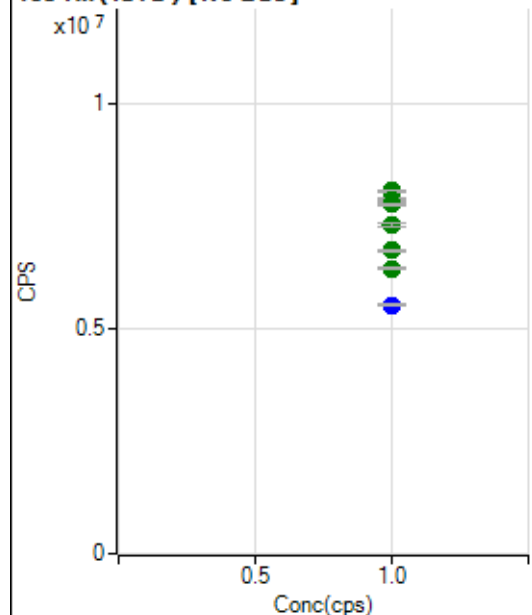
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		339754.93		P	0.8
2	☐	1.000		347917.58		P	0.3
3	☐	1.000		341831.73		P	0.1
4	☐	1.000		325732.61		P	0.5
5	☐	1.000		308260.38		P	0.9
6	☐	1.000		286035.53		P	1.1
7	☐	1.000		277244.49		P	0.2
8	☐	1.000		292075.40		P	0.8

89 Y (ISTD) [No Gas]

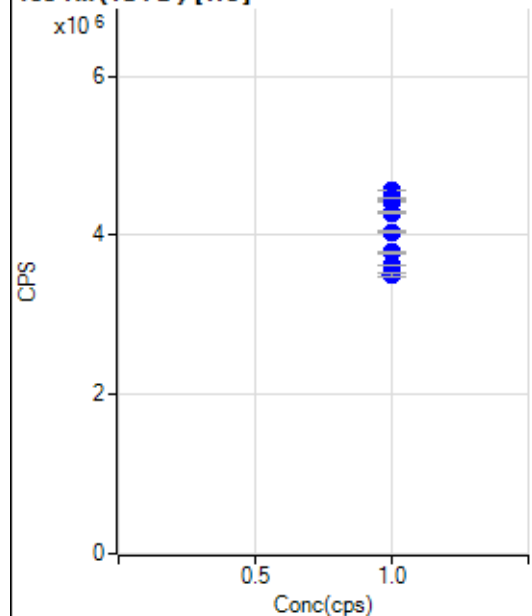
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12002945.10		A	0.9
2	☐	1.000		12377646.62		A	1.1
3	☐	1.000		12217023.01		A	0.4
4	☐	1.000		11987686.35		A	0.7
5	☐	1.000		11619027.47		A	0.5
6	☐	1.000		10676440.74		A	0.8
7	☐	1.000		10260038.53		A	0.4
8	☐	1.000		10292463.11		A	0.4

89 Y (ISTD) [He]

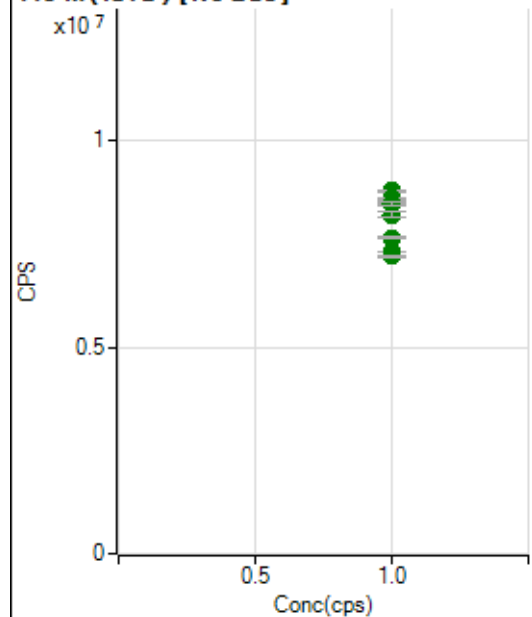
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2597449.49		P	0.2
2	☐	1.000		2662929.66		P	0.6
3	☐	1.000		2616757.60		P	0.2
4	☐	1.000		2512791.26		P	0.5
5	☐	1.000		2379906.72		P	0.5
6	☐	1.000		2241712.45		P	0.8
7	☐	1.000		2182452.09		P	0.9
8	☐	1.000		2265716.67		P	0.7

103 Rh (ISTD) [No Gas]

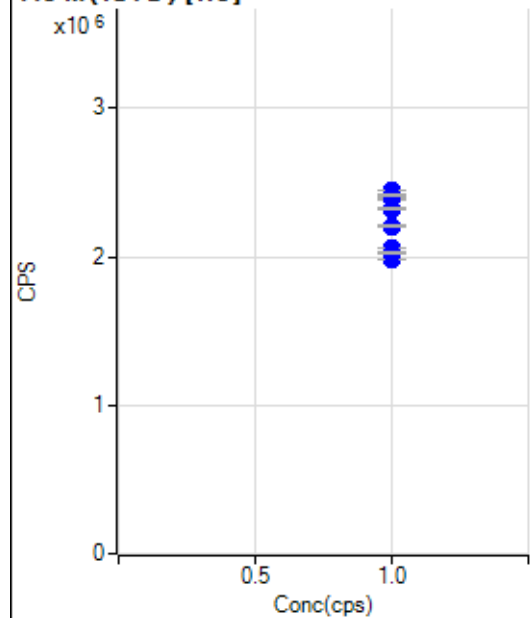
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		7753530.79		A	0.9
2	☐	1.000		8050354.32		A	0.8
3	☐	1.000		7865360.71		A	0.6
4	☐	1.000		7756120.72		A	0.7
5	☐	1.000		7304724.19		A	1.5
6	☐	1.000		6720642.68		A	0.8
7	☐	1.000		6329198.93		A	0.6
8	☐	1.000		5519352.97		P	0.9

103 Rh (ISTD) [He]

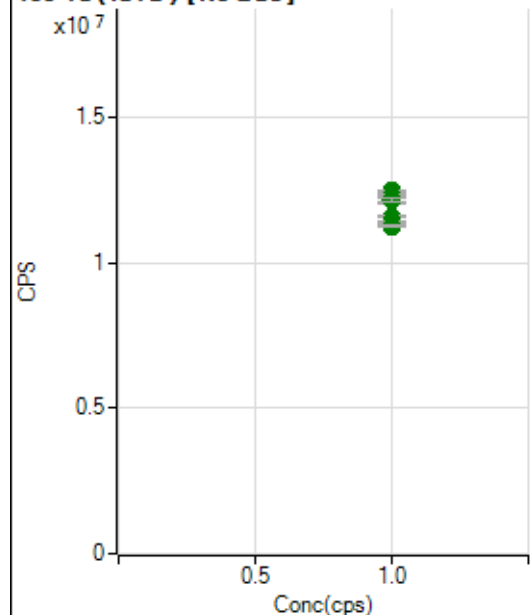
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		4432308.09		P	0.5
2	☐	1.000		4558096.49		P	0.2
3	☐	1.000		4476777.54		P	0.1
4	☐	1.000		4284405.66		P	0.2
5	☐	1.000		4043140.60		P	0.3
6	☐	1.000		3781593.07		P	0.4
7	☐	1.000		3621835.01		P	0.5
8	☐	1.000		3503411.09		P	0.9

115 In (ISTD) [No Gas]

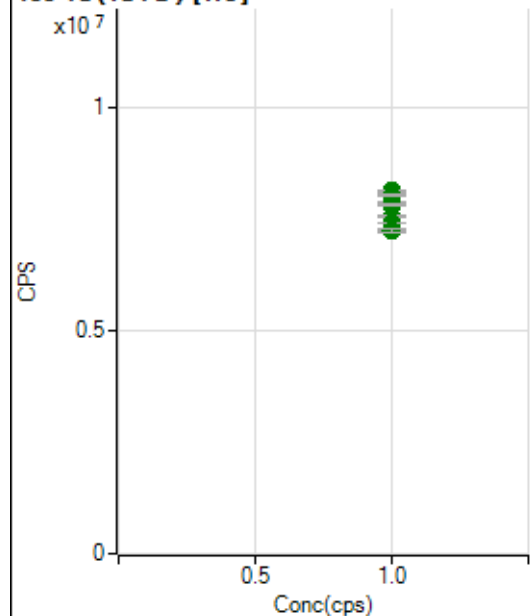
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8504269.05		A	0.7
2	☐	1.000		8784687.59		A	0.3
3	☐	1.000		8598489.63		A	0.5
4	☐	1.000		8483404.42		A	1.1
5	☐	1.000		8205644.38		A	1.5
6	☐	1.000		7655030.57		A	0.6
7	☐	1.000		7303271.83		A	0.4
8	☐	1.000		7204631.65		A	0.7

115 In (ISTD) [He]

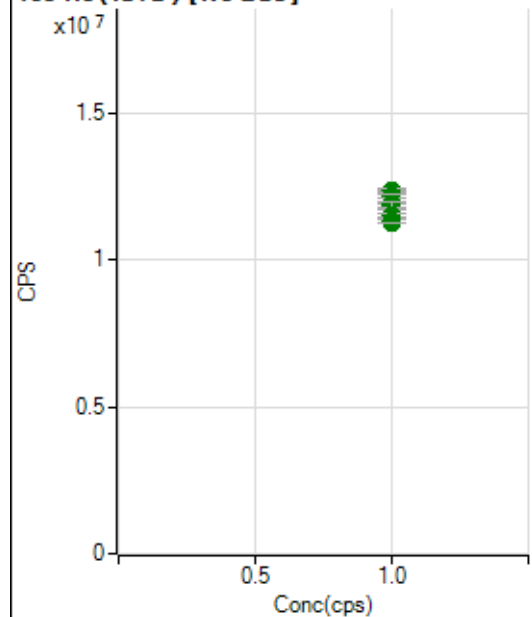
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2389541.45		P	0.4
2	☐	1.000		2442297.62		P	0.1
3	☐	1.000		2413225.83		P	0.5
4	☐	1.000		2322624.28		P	0.7
5	☐	1.000		2202480.67		P	0.4
6	☐	1.000		2059473.98		P	0.2
7	☐	1.000		1980890.91		P	0.6
8	☐	1.000		2024138.63		P	1.0

159 Tb (ISTD) [No Gas]

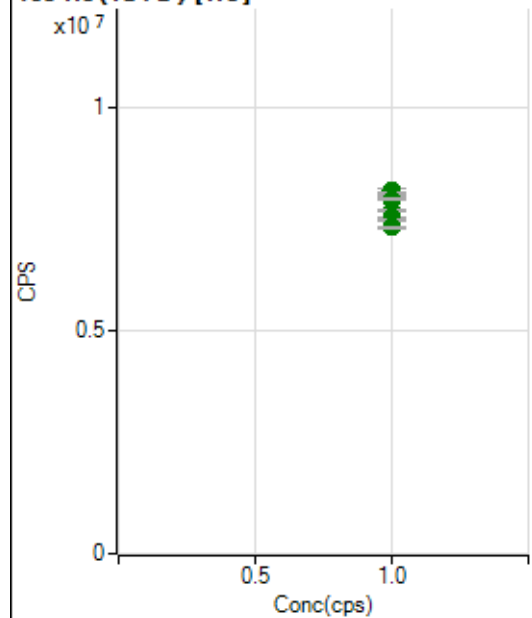
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12161812.32		A	2.0
2	☐	1.000		12455566.20		A	1.3
3	☐	1.000		12488757.87		A	0.6
4	☐	1.000		12341226.90		A	0.5
5	☐	1.000		12160147.73		A	0.9
6	☐	1.000		11607722.05		A	0.2
7	☐	1.000		11440049.97		A	0.8
8	☐	1.000		11274317.61		A	0.7

159 Tb (ISTD) [He]

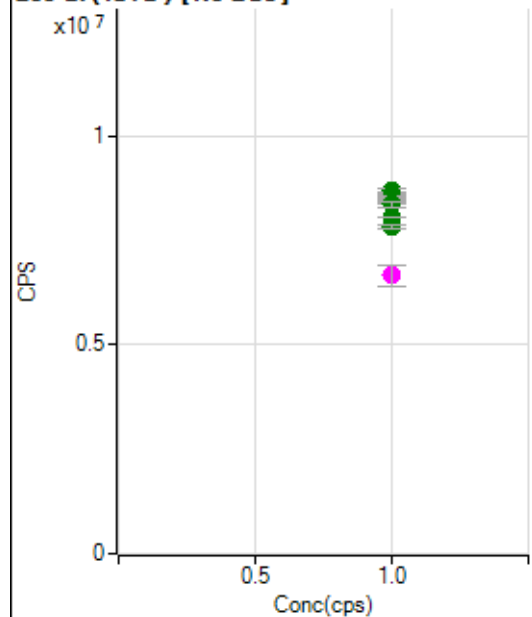
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7849248.28		A	0.8
2	☐	1.000		8133731.96		A	0.4
3	☐	1.000		8027074.88		A	0.4
4	☐	1.000		7818162.45		A	0.9
5	☐	1.000		7556739.82		A	0.3
6	☐	1.000		7409533.64		A	0.4
7	☐	1.000		7228316.28		A	0.4
8	☐	1.000		7232054.48		A	1.2

165 Ho (ISTD) [No Gas]

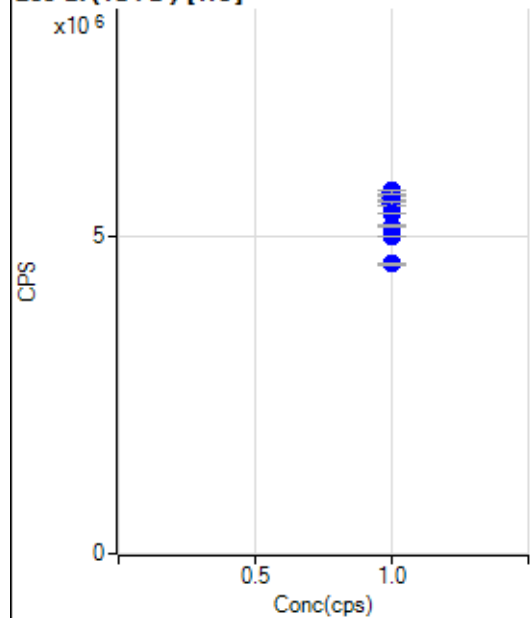
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11829455.38		A	1.4
2	☐	1.000		12343317.59		A	0.7
3	☐	1.000		12347511.62		A	1.1
4	☐	1.000		12177259.96		A	0.7
5	☐	1.000		11881344.82		A	1.2
6	☐	1.000		11515913.72		A	0.7
7	☐	1.000		11328149.69		A	1.1
8	☐	1.000		11230858.17		A	0.0

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7973369.26		A	1.0
2	☐	1.000		8115308.07		A	1.2
3	☐	1.000		8078542.24		A	0.7
4	☐	1.000		7924605.65		A	0.8
5	☐	1.000		7670169.12		A	0.3
6	☐	1.000		7506988.64		A	0.5
7	☐	1.000		7451990.72		A	0.3
8	☐	1.000		7294898.64		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		8428982.17		A	1.3
2	☐	1.000		8683809.39		A	1.2
3	☐	1.000		8620616.40		A	0.1
4	☐	1.000		8529722.23		A	0.6
5	☐	1.000		8358949.95		A	1.2
6	☐	1.000		8060971.41		A	0.0
7	☐	1.000		7823012.87		A	0.9
8	☐	1.000		6651484.20		M	7.8

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	1.000		5599010.61		P	1.2
2	☐	1.000		5707757.62		P	0.0
3	☐	1.000		5682237.83		P	0.9
4	☐	1.000		5508595.40		P	0.7
5	☐	1.000		5362612.28		P	0.2
6	☐	1.000		5156773.71		P	0.2
7	☐	1.000		4995024.79		P	0.4
8	☐	1.000		4562618.79		P	0.6

US EPA Tune Check Sample Report

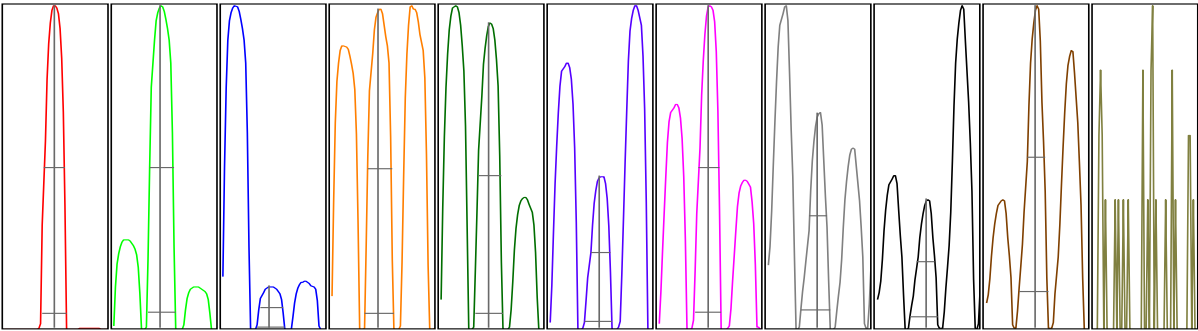
Batch Folder C:\Agilent\ICPMH\1\DATA\P708121-EPA.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7912	0.94	5.00	
24	93295	0.20	5.00	
25	12399	0.50	5.00	
26	13801	0.24	5.00	
59	17644	0.51	5.00	
113	11094	0.10	5.00	
115	33955	1.46	5.00	
206	16775	0.21	5.00	
207	14611	0.49	5.00	
208	35205	0.50	5.00	
220	0	39.12		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7805	8007	7942	7888	7917
24	93297	93500	93020	93433	93226
25	12443	12303	12459	12416	12374
26	13785	13858	13799	13789	13772
59	17641	17674	17778	17556	17571
113	11111	11085	11088	11087	11097
115	34666	34153	33905	33708	33343
206	16731	16744	16792	16800	16806
207	14487	14637	14609	14655	14665
208	35024	35011	35280	35319	35393
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	13775	9.00	8.9 - 9.1		0.739	0.900	
24	145747	23.90	23.9 - 24.1		0.829	0.900	
25	19096	24.90	24.9 - 25.1		0.822	0.900	
26	21590	25.90	25.9 - 26.1		0.829	0.900	
59	29153	58.95	58.9 - 59.1		0.825	0.900	
113	19325	113.00	112.9 - 113.1		0.791	0.900	
115	58915	115.00	114.9 - 115.1		0.786	0.900	
206	31637	206.00	205.9 - 206.1		0.831	0.900	
207	26607	207.00	206.9 - 207.1		0.792	0.900	
208	66475	208.00	207.9 - 208.1		0.820	0.900	
220	0	220.10	-		0.250		

X% = 5 Integration Time [sec] = 0.1 Acquisition Time [sec] = 256.8 Y Axis = Linear

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	13.4	V
Extract 2	-120.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	140	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5982	0.33	
89	28562	0.21	
205	18730	0.54	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5966	5964	5980	5985	6013
89	28636	28476	28538	28595	28566
205	18552	18745	18768	18786	18798

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
RF Power	1600	W	Carrier Gas	0.72	L/min	S/C Temp		2 °C
RF Matching	1.80	V	Option Gas	0.0	%	Gas Switch		Dilution Gas
Smpl Depth	9.0	mm	Nebulizer Pump	0.10	rpm	Makeup/Dilution Gas		0.42 L/min

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.5	V	Deflect	1.4	V
Extract 2	-120.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-75	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	190	V			