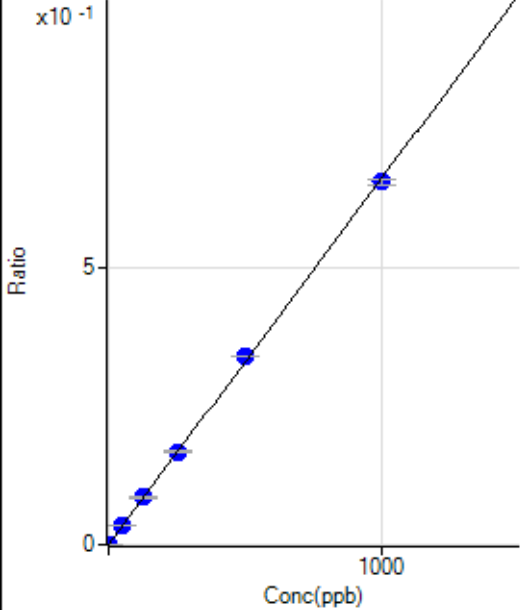


Calibration for 008CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7082984MS.b\
 Analysis File: P7082984MS.batch.bin
 DA Date-Time: 2024-08-30 12:41:01
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2024-08-29 13:38:10
2	005CALS.d	S02	2024-08-29 13:41:32
3	006CALS.d	S03	2024-08-29 13:44:55
4	007CALS.d	S04	2024-08-29 13:48:14
5	008CALS.d	S05	2024-08-29 13:51:27
6	009CALS.d	S06	2024-08-29 13:54:31
7	010CALS.d	S07	2024-08-29 13:57:30
8	011CALS.d	S08	2024-08-29 14:00:23

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.56	0.0000	P	65.2
2	☐	1.000	1.030	638.91	0.0007	P	8.3
3	☐	50.000	52.938	32029.68	0.0351	P	0.3
4	☐	125.000	129.021	79955.32	0.0855	P	1.4
5	☐	250.000	253.204	159111.74	0.1678	P	1.3
6	☐	500.000	515.080	331079.62	0.3414	P	0.7
7	☐	1000.000	991.010	655523.89	0.6568	P	1.5
8	☐			127.78	0.0001	P	5.9

$y = 6.6278E-004 * x + 1.7241E-005$

$R = 0.9998$

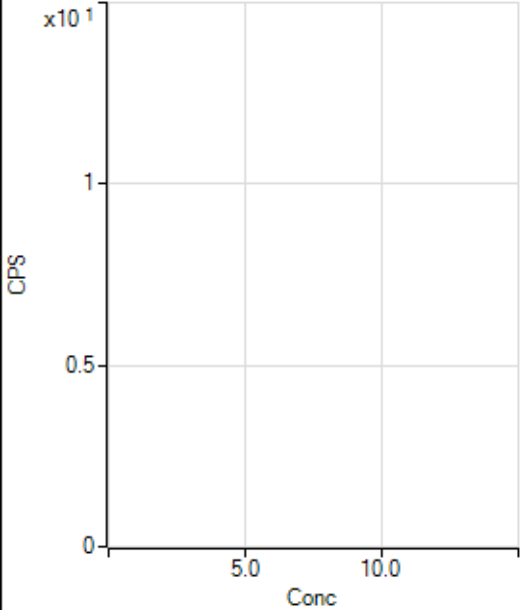
$DL = 0.05087$

$BEC = 0.02601$

Weight: <None>

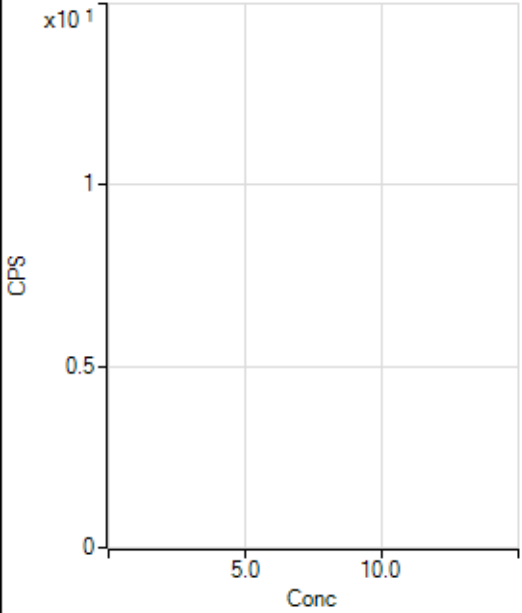
Min Conc: 0

12 C [No Gas] No available calibration points



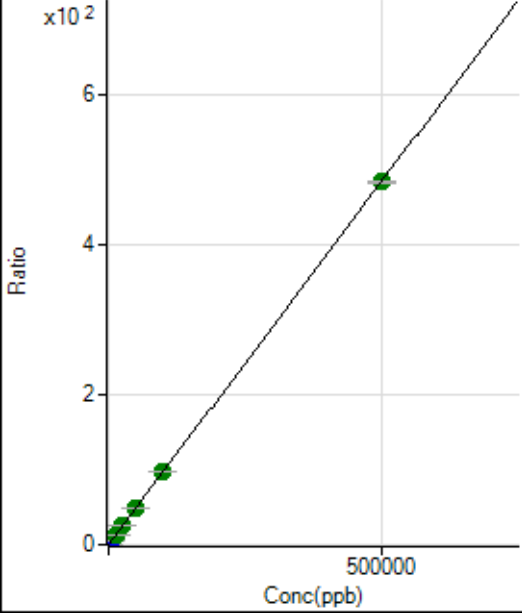
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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	8718.09	0.0502	P	0.1
2	☐	500.000	530.703	98706.43	0.5632	P	0.4
3	☐	5000.000	5694.809	948251.12	5.5548	P	0.9
4	☐	12500.000	12836.932	2078858.29	12.4583	A	0.6
5	☐	25000.000	25469.717	4106174.14	24.6691	A	0.7
6	☐	50000.000	50899.380	8145132.17	49.2492	A	1.2
7	☐	100000.00	101242.50	16236528.09	97.9104	A	0.8
8	☐	500000.00	499622.67	76723058.30	482.9816	A	0.3

$y = 9.6659E-004 * x + 0.0502$

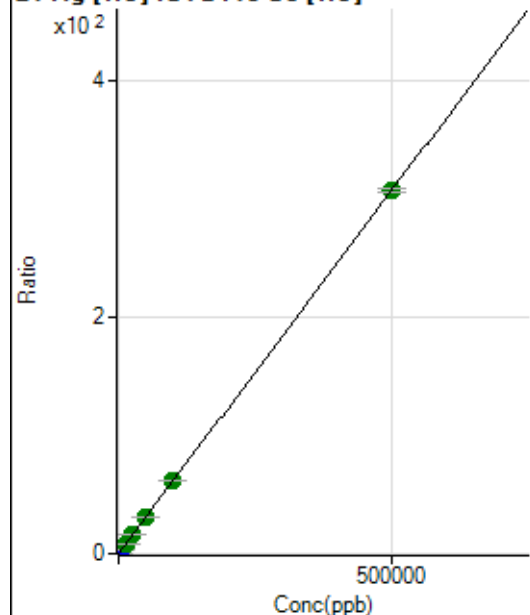
$R = 1.0000$

$DL = 0.1741$

$BEC = 51.98$

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	274.45	0.0016	P	7.1
2	☐	500.000	525.304	56879.11	0.3246	P	0.8
3	☐	5000.000	5650.977	593395.96	3.4762	P	0.3
4	☐	12500.000	12848.230	1318371.71	7.9015	A	1.5
5	☐	25000.000	25578.471	2618137.48	15.7289	A	0.8
6	☐	50000.000	50610.850	5147001.42	31.1205	A	0.5
7	☐	100000.00	101021.60	10300717.62	62.1164	A	1.1
8	☐	500000.00	499690.43	48806318.16	307.2446	A	0.9

$$y = 6.1487\text{E-}004 * x + 0.0016$$

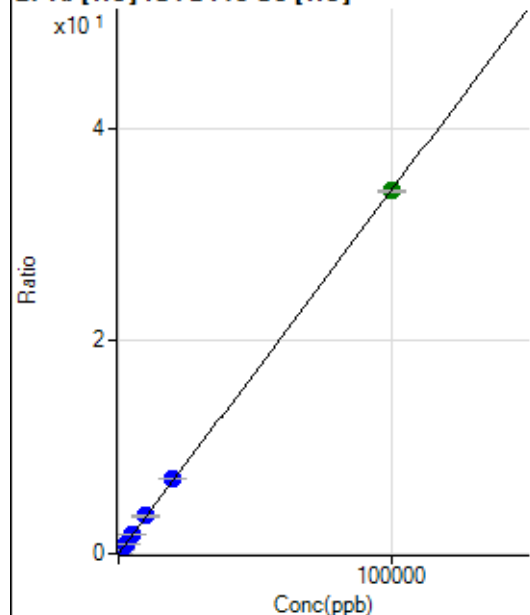
$$R = 1.0000$$

$$DL = 0.5509$$

$$BEC = 2.571$$

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	134.45	0.0008	P	25.7
2	☐	20.000	18.563	1247.84	0.0071	P	1.4
3	☐	1000.000	1066.403	62344.94	0.3652	P	0.8
4	☐	2500.000	2613.011	149143.95	0.8938	P	0.5
5	☐	5000.000	5212.273	296638.17	1.7821	P	0.3
6	☐	10000.000	10339.010	584545.96	3.5343	P	1.0
7	☐	20000.000	20602.356	1167767.52	7.0419	P	0.9
8	☐	100000.00	99831.525	5420127.31	34.1193	A	0.7

$$y = 3.4176\text{E-}004 * x + 7.7620\text{E-}004$$

$$R = 1.0000$$

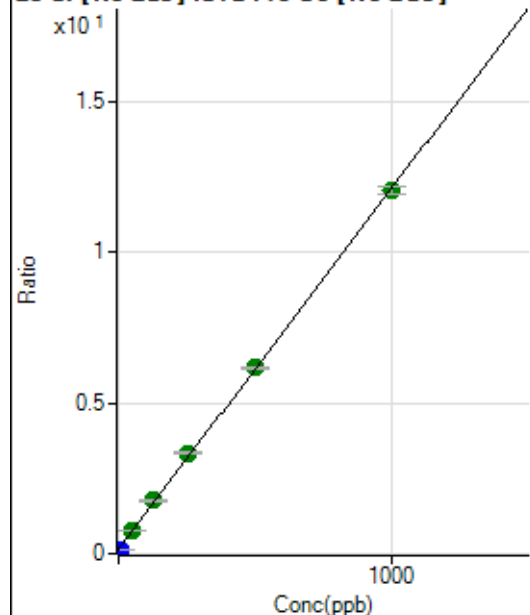
$$DL = 1.749$$

$$BEC = 2.271$$

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	305436.91	0.1475	P	0.9
2	☐	10.000	0.104	314218.56	0.1487	P	2.0
3	☐	50.000	52.646	1607827.74	0.7766	A	2.4
4	☐	125.000	135.355	3625681.82	1.7651	A	4.1
5	☐	250.000	266.595	6759972.75	3.3335	A	1.8
6	☐	500.000	502.422	12324300.79	6.1519	A	0.5
7	☐	1000.000	993.313	24620617.41	12.0184	A	2.0
8	☐			363045.82	0.1895	P	1.6

$$y = 0.0120 * x + 0.1475$$

$$R = 0.9997$$

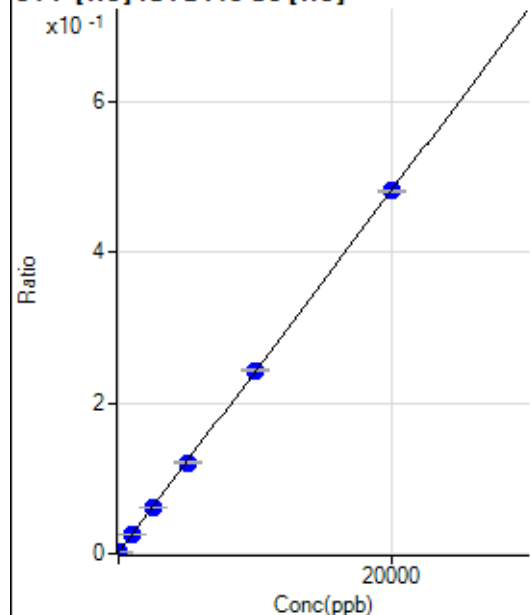
$$DL = 0.3309$$

$$BEC = 12.34$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-20.581	208.89	0.0012	P	6.9
2	☐	0.000	20.581	384.46	0.0022	P	6.2
3	☐	1000.000	1035.776	4538.49	0.0266	P	1.4
4	☐	2500.000	2485.007	10245.74	0.0614	P	2.3
5	☐	5000.000	4974.003	20175.61	0.1212	P	3.2
6	☐	10000.000	10052.244	40233.89	0.2432	P	1.4
7	☐	20000.000	19980.462	79900.48	0.4818	P	0.3
8	☐			211.12	0.0013	P	9.5

$$y = 2.4029E-005 * x + 0.0017$$

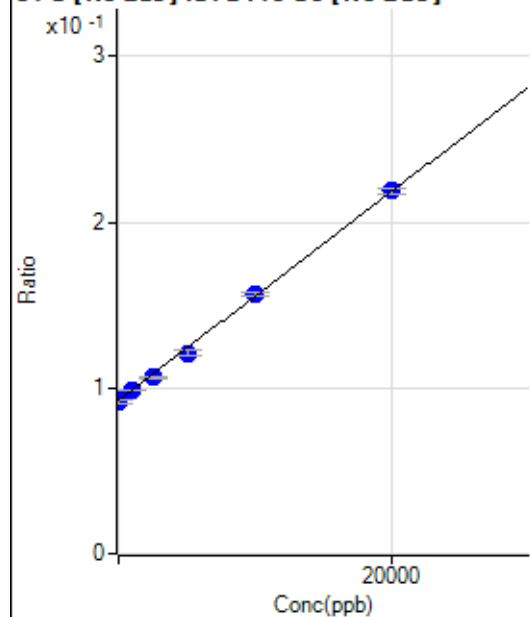
$$R = 1.0000$$

$$DL = 13.71$$

$$BEC = 70.69$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	74.406	192721.35	0.0931	P	0.5
2	☐	0.000	-74.406	194610.17	0.0921	P	2.5
3	☐	1000.000	948.637	204070.60	0.0986	P	0.4
4	☐	2500.000	2188.958	218574.09	0.1064	P	1.2
5	☐	5000.000	4494.103	245062.94	0.1209	P	3.0
6	☐	10000.000	10225.759	314395.21	0.1569	P	1.7
7	☐	20000.000	20055.043	448277.73	0.2188	P	1.7
8	☐			170673.29	0.0891	P	2.7

$$y = 6.2942\text{E-}006 * x + 0.0926$$

$$R = 0.9995$$

$$DL = 659.4$$

$$BEC = 1.471\text{E}+04$$

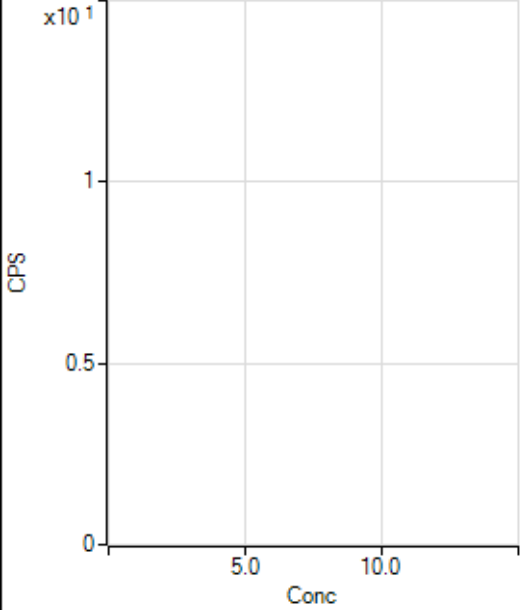
Weight: <None>

Min Conc: 0

35 Cl [No Gas] No available calibration points

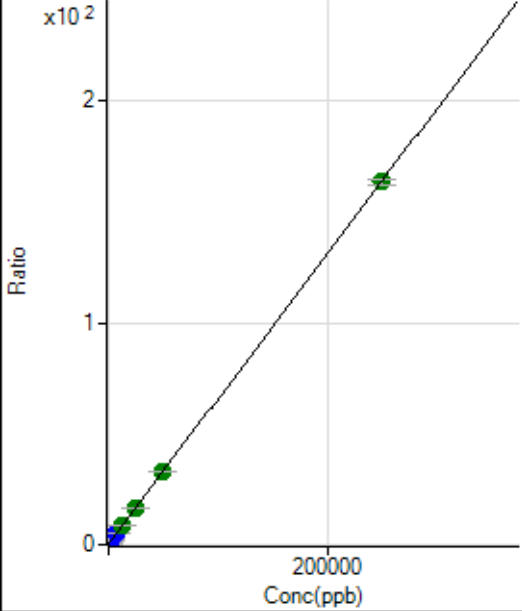
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

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	53575.16	0.3088	P	0.7
2	☐	500.000	537.829	115631.52	0.6599	P	1.2
3	☐	2500.000	2828.809	367935.16	2.1555	P	1.3
4	☐	6250.000	6986.209	812535.59	4.8696	P	0.6
5	☐	12500.000	12571.521	1417451.37	8.5158	A	1.9
6	☐	25000.000	24966.819	2746616.94	16.6078	A	1.5
7	☐	50000.000	50165.828	5482049.50	33.0584	A	1.4
8	☐	250000.00	249944.80	25968187.67	163.4796	A	1.5

$y = 6.5283E-004 * x + 0.3088$

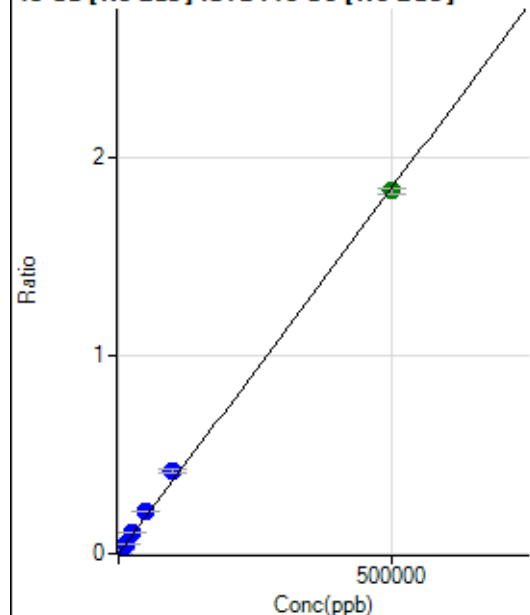
$R = 1.0000$

$DL = 9.716$

$BEC = 473$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	346.67	0.0002	P	4.8
2	☐	500.000	527.517	4460.69	0.0021	P	3.4
3	☐	5000.000	5778.024	44439.40	0.0215	P	0.5
4	☐	12500.000	14122.037	107291.58	0.0522	P	2.0
5	☐	25000.000	27928.474	209060.64	0.1031	P	2.3
6	☐	50000.000	57680.093	426193.67	0.2128	P	1.6
7	☐	100000.00	112883.64	852539.99	0.4162	P	2.9
8	☐	500000.00	496460.48	3506460.64	1.8300	A	1.4

$$y = 3.6857E-006 * x + 1.6738E-004$$

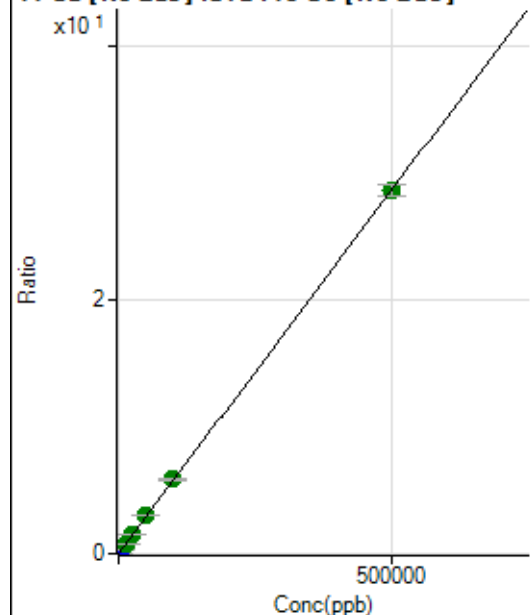
$$R = 0.9996$$

$$DL = 6.604$$

$$BEC = 45.41$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8053.35	0.0039	P	1.2
2	☐	500.000	534.613	72989.09	0.0345	P	1.2
3	☐	5000.000	5718.593	686871.96	0.3317	P	1.2
4	☐	12500.000	12778.438	1513106.52	0.7365	A	2.8
5	☐	25000.000	25629.547	2987861.48	1.4733	A	1.9
6	☐	50000.000	52822.441	6074065.74	3.0323	A	2.0
7	☐	100000.00	102551.59	12051017.87	5.8834	A	3.6
8	☐	500000.00	499161.77	54827393.07	28.6218	A	3.0

$$y = 5.7332E-005 * x + 0.0039$$

$$R = 1.0000$$

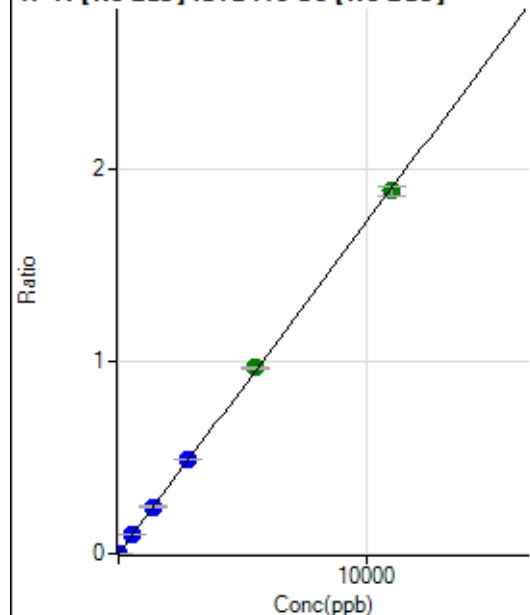
$$DL = 2.387$$

$$BEC = 67.82$$

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	94.44	0.0000	P	17.0
2	☐	5.000	4.723	1821.24	0.0009	P	4.3
3	☐	550.000	577.773	206775.14	0.0999	P	0.7
4	☐	1375.000	1415.413	502483.00	0.2446	P	2.9
5	☐	2750.000	2832.253	992440.54	0.4894	P	1.4
6	☐	5500.000	5594.062	1936146.91	0.9665	A	1.5
7	☐	11000.000	10925.965	3867018.62	1.8877	A	2.7
8	☐			715.58	0.0004	P	4.6

$$y = 1.7277E-004 * x + 4.5584E-005$$

$$R = 0.9999$$

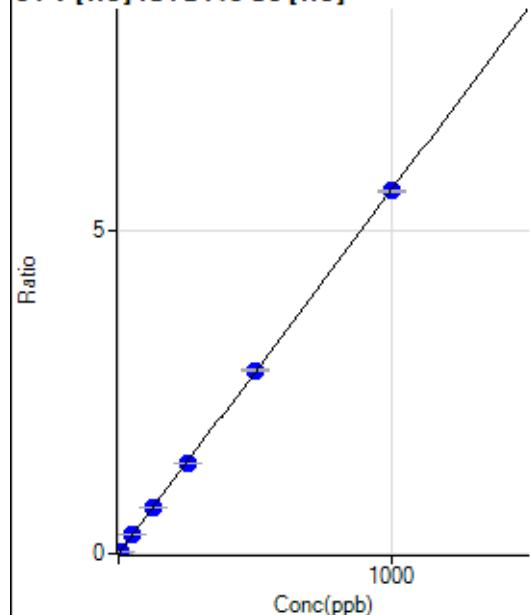
$$DL = 0.1347$$

$$BEC = 0.2638$$

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	7.78	0.0000	P	64.4
2	☐	5.000	5.064	4998.65	0.0285	P	4.0
3	☐	50.000	51.057	49035.02	0.2873	P	0.1
4	☐	125.000	126.815	119038.80	0.7134	P	0.6
5	☐	250.000	250.639	234689.56	1.4100	P	0.3
6	☐	500.000	503.901	468816.29	2.8346	P	0.5
7	☐	1000.000	997.609	930644.47	5.6119	P	0.3
8	☐			354.45	0.0022	P	15.1

$$y = 0.0056 * x + 4.4628E-005$$

$$R = 1.0000$$

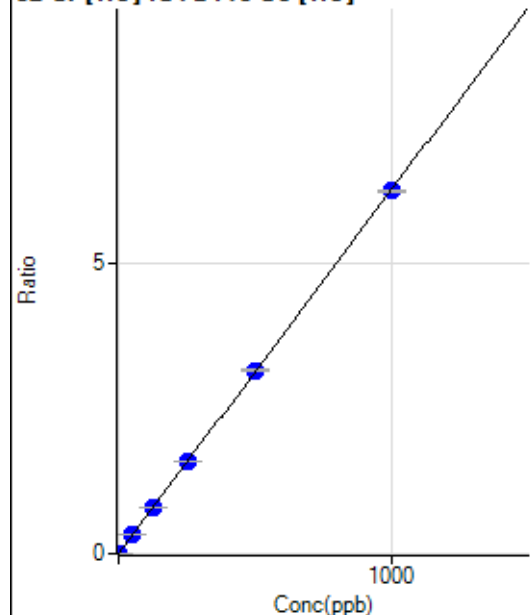
$$DL = 0.01533$$

$$BEC = 0.007934$$

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	266.67	0.0015	P	5.3
2	☐	2.000	1.958	2412.44	0.0138	P	6.2
3	☐	50.000	51.466	55155.98	0.3231	P	0.8
4	☐	125.000	128.060	133772.02	0.8017	P	0.8
5	☐	250.000	252.631	263006.92	1.5801	P	1.0
6	☐	500.000	504.316	521432.35	3.1527	P	0.4
7	☐	1000.000	996.729	1033076.05	6.2296	P	0.4
8	☐			4525.16	0.0285	P	1.3

$$y = 0.0062 * x + 0.0015$$

$$R = 1.0000$$

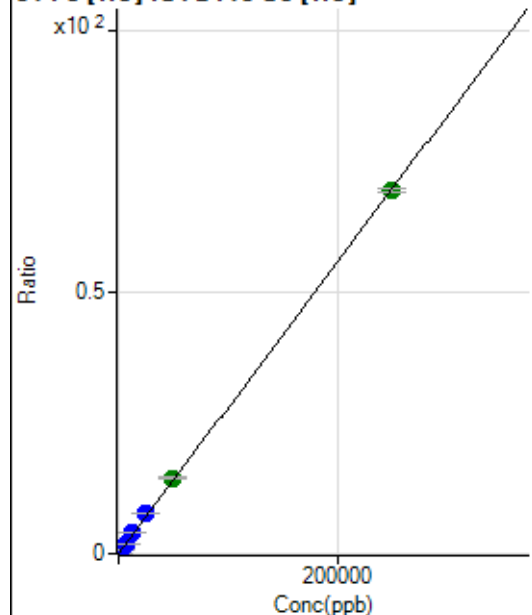
$$DL = 0.03892$$

$$BEC = 0.2459$$

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	1086.72	0.0063	P	7.5
2	☐	50.000	54.876	3772.73	0.0215	P	0.5
3	☐	2500.000	2897.231	138611.83	0.8120	P	1.3
4	☐	6250.000	7191.152	334748.14	2.0062	P	0.6
5	☐	12500.000	14040.890	651019.23	3.9112	P	0.7
6	☐	25000.000	28178.742	1297159.51	7.8431	P	0.6
7	☐	50000.000	51952.414	2397117.45	14.4549	A	1.2
8	☐	250000.00	249187.09	11009805.25	69.3084	A	0.9

$$y = 2.7811E-004 * x + 0.0063$$

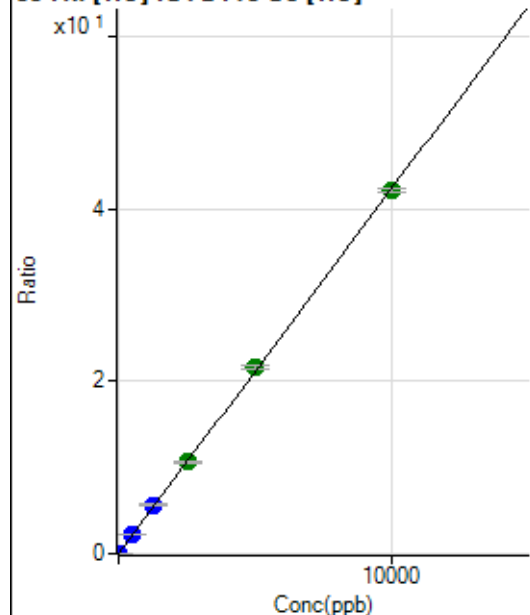
$$R = 0.9999$$

$$DL = 5.055$$

$$BEC = 22.53$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	247.78	0.0014	P	13.2
2	☐	1.000	0.962	964.48	0.0055	P	6.6
3	☐	500.000	540.600	391030.49	2.2907	P	0.8
4	☐	1250.000	1343.371	949496.87	5.6902	P	0.5
5	☐	2500.000	2506.530	1767024.52	10.6159	A	1.4
6	☐	5000.000	5085.473	3561613.66	21.5370	A	2.1
7	☐	10000.000	9941.930	6982076.98	42.1027	A	1.1
8	☐			4086.14	0.0257	P	1.5

$$y = 0.0042 * x + 0.0014$$

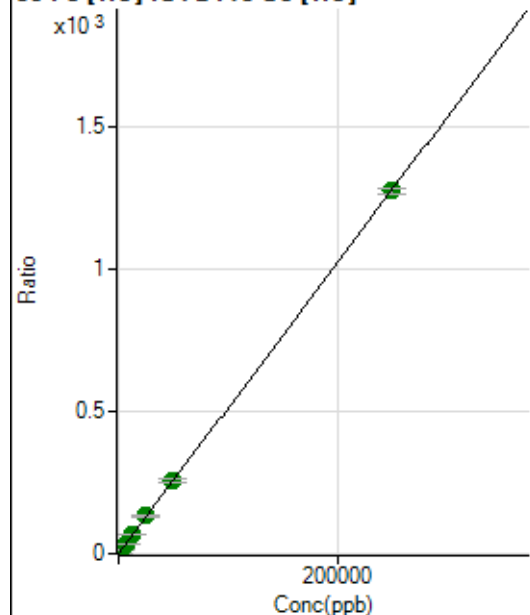
$$R = 0.9999$$

$$DL = 0.1333$$

$$BEC = 0.3375$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6212.54	0.0358	P	2.7
2	☐	50.000	55.147	55573.50	0.3171	P	0.7
3	☐	2500.000	2648.898	2312878.28	13.5487	A	1.0
4	☐	6250.000	6551.870	5583109.36	33.4589	A	0.5
5	☐	12500.000	12829.754	10900178.87	65.4844	A	1.0
6	☐	25000.000	25958.672	21905896.34	132.4591	A	1.5
7	☐	50000.000	50385.644	42627444.09	257.0686	A	3.5
8	☐	250000.00	249801.48	202425479.2	1,274.350	A	1.7

$$y = 0.0051 * x + 0.0358$$

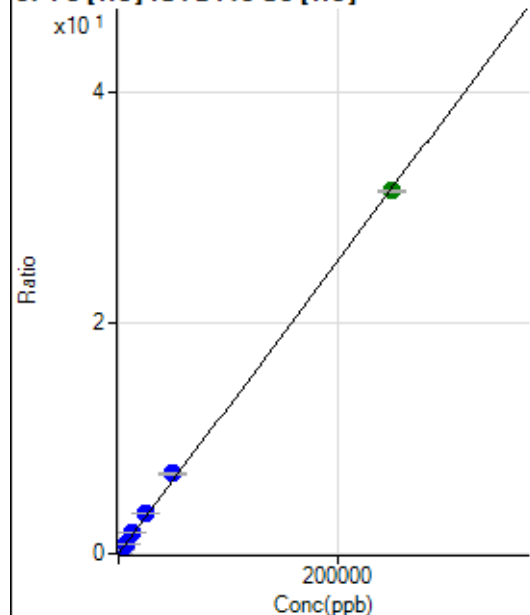
$$R = 1.0000$$

$$DL = 0.5778$$

$$BEC = 7.019$$

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	1700.11	0.0098	P	2.2
2	☐	50.000	52.723	2884.75	0.0165	P	4.9
3	☐	2500.000	2873.343	63699.86	0.3732	P	0.8
4	☐	6250.000	7061.544	150643.81	0.9028	P	0.9
5	☐	12500.000	13926.871	294774.95	1.7709	P	1.2
6	☐	25000.000	27878.474	584705.05	3.5352	P	0.2
7	☐	50000.000	54925.391	1153426.20	6.9555	P	1.2
8	☐	250000.00	248631.70	4996006.24	31.4510	A	0.6

$$y = 1.2646\text{E-}004 * x + 0.0098$$

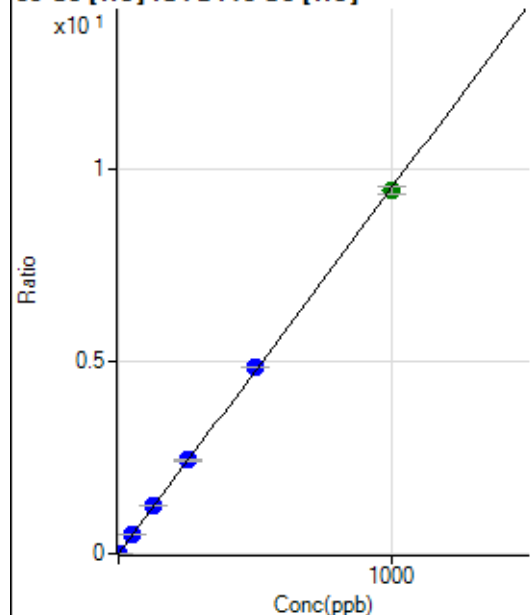
$$R = 0.9998$$

$$DL = 5.16$$

$$BEC = 77.48$$

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	36.67	0.0002	P	19.1
2	☐	1.000	1.026	1743.45	0.0100	P	6.0
3	☐	50.000	52.855	85705.29	0.5021	P	0.8
4	☐	125.000	129.864	205779.19	1.2333	P	0.8
5	☐	250.000	255.481	403808.41	2.4260	P	0.8
6	☐	500.000	510.559	801821.13	4.8481	P	0.2
7	☐	1000.000	992.600	1562981.71	9.4251	A	2.2
8	☐			3938.33	0.0248	P	2.4

$$y = 0.0095 * x + 2.1158\text{E-}004$$

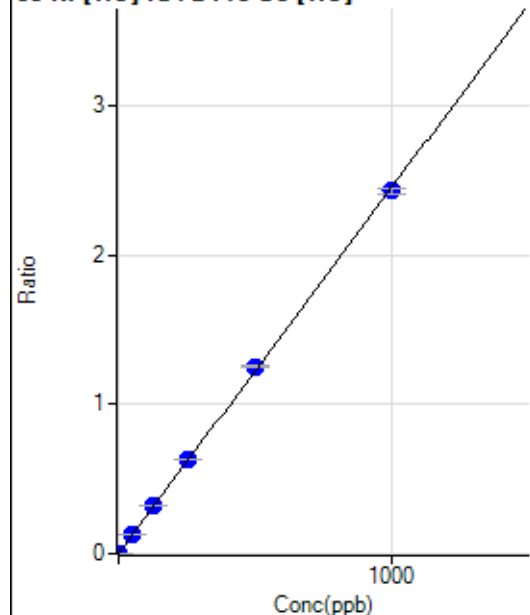
$$R = 0.9999$$

$$DL = 0.01278$$

$$BEC = 0.02228$$

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	86.67	0.0005	P	10.8
2	☐	1.000	1.092	556.68	0.0032	P	6.4
3	☐	50.000	53.349	22395.70	0.1312	P	2.3
4	☐	125.000	129.861	53166.12	0.3186	P	0.2
5	☐	250.000	255.768	104372.56	0.6271	P	0.7
6	☐	500.000	512.176	207599.00	1.2552	P	0.7
7	☐	1000.000	991.695	402943.44	2.4299	P	1.2
8	☐			1930.15	0.0121	P	5.6

$$y = 0.0024 * x + 4.9966E-004$$

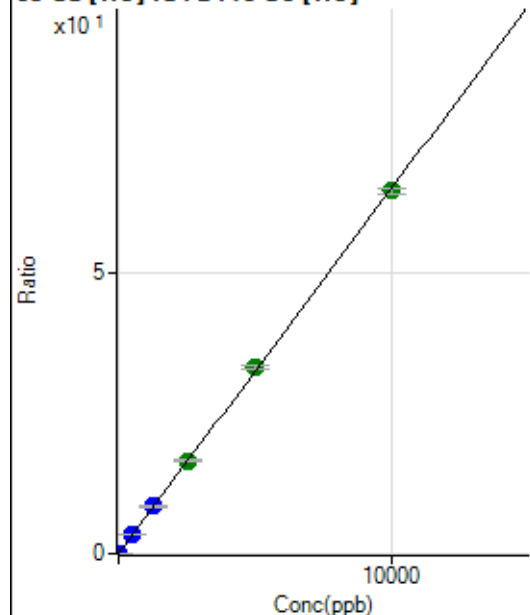
$$R = 0.9999$$

$$DL = 0.06581$$

$$BEC = 0.204$$

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	406.68	0.0023	P	11.9
2	☐	2.000	1.982	2675.82	0.0153	P	4.6
3	☐	500.000	528.377	588706.58	3.4487	P	0.7
4	☐	1250.000	1290.953	1405387.86	8.4227	P	0.4
5	☐	2500.000	2539.711	2757673.16	16.5678	A	1.3
6	☐	5000.000	5099.868	5501802.07	33.2667	A	1.8
7	☐	10000.000	9933.600	10744799.84	64.7952	A	1.5
8	☐			2693.60	0.0170	P	4.3

$$y = 0.0065 * x + 0.0023$$

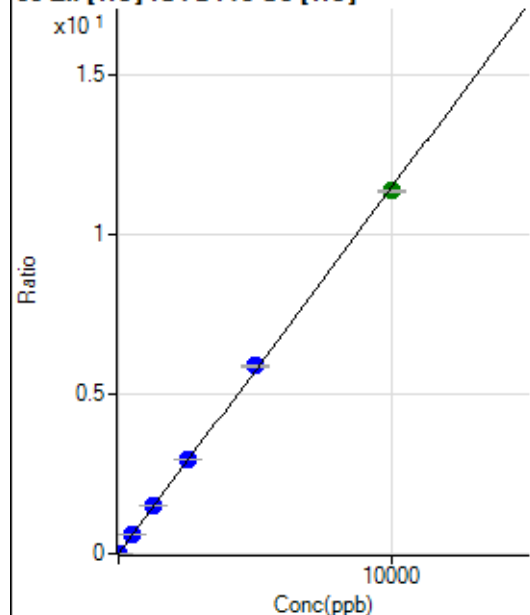
$$R = 0.9999$$

$$DL = 0.128$$

$$BEC = 0.3592$$

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	455.57	0.0026	P	7.9
2	☐	5.000	4.800	1425.64	0.0081	P	4.9
3	☐	500.000	529.251	104107.96	0.6099	P	1.1
4	☐	1250.000	1304.751	250233.83	1.4997	P	0.6
5	☐	2500.000	2585.868	494298.91	2.9697	P	0.4
6	☐	5000.000	5122.017	972409.63	5.8796	P	1.2
7	☐	10000.000	9909.218	1885922.09	11.3725	A	0.4
8	☐			1211.17	0.0076	P	3.4

$$y = 0.0011 * x + 0.0026$$

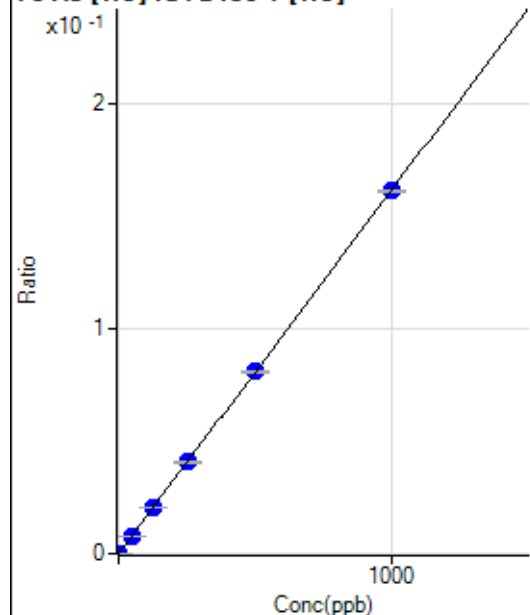
$$R = 0.9998$$

$$DL = 0.5432$$

$$BEC = 2.289$$

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	0.00	0.0000	P	
2	☐	1.000	1.033	180.00	0.0002	P	19.0
3	☐	50.000	49.485	8599.24	0.0080	P	1.6
4	☐	125.000	127.292	21344.31	0.0206	P	2.2
5	☐	250.000	252.052	42137.40	0.0407	P	1.5
6	☐	500.000	501.994	83902.07	0.0811	P	1.0
7	☐	1000.000	998.229	167128.53	0.1612	P	0.4
8	☐			86.67	0.0001	P	3.6

$$y = 1.6148E-004 * x + 0.0000E+000$$

$$R = 1.0000$$

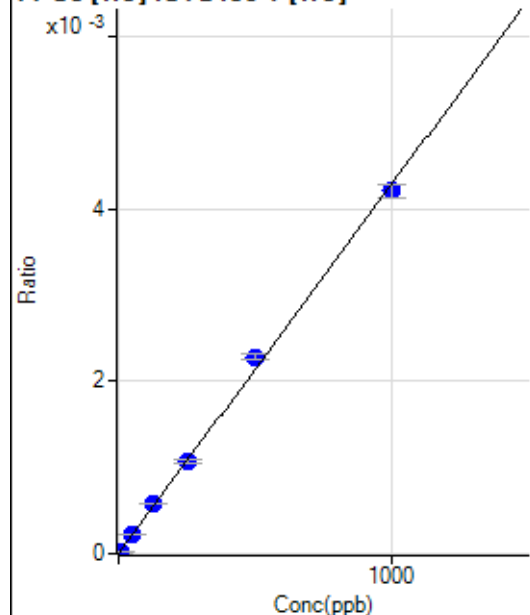
$$DL = 0$$

$$BEC = 0$$

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	☐	5.000	5.528	26.67	0.0000	P	0.5
3	☐	50.000	51.620	238.89	0.0002	P	9.1
4	☐	125.000	134.490	598.90	0.0006	P	2.0
5	☐	250.000	250.747	1112.28	0.0011	P	4.2
6	☐	500.000	531.913	2357.99	0.0023	P	3.0
7	☐	1000.000	982.587	4361.80	0.0042	P	3.7
8	☐			3.33	0.0000	P	100.

$$y = 4.2808\text{E-}006 * x + 1.0324\text{E-}006$$

$$R = 0.9992$$

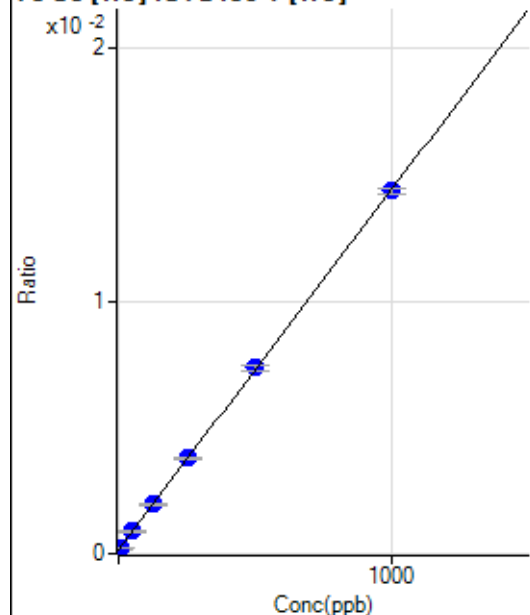
$$DL = 1.253$$

$$BEC = 0.2412$$

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	167.78	0.0002	P	7.6
2	☐	5.000	4.625	240.00	0.0002	P	8.6
3	☐	50.000	50.505	943.37	0.0009	P	8.8
4	☐	125.000	126.117	2030.16	0.0020	P	5.4
5	☐	250.000	253.584	3906.11	0.0038	P	3.1
6	☐	500.000	505.188	7619.80	0.0074	P	2.6
7	☐	1000.000	996.347	14895.36	0.0144	P	1.5
8	☐			168.89	0.0002	P	23.4

$$y = 1.4262\text{E-}005 * x + 1.5623\text{E-}004$$

$$R = 1.0000$$

$$DL = 2.486$$

$$BEC = 10.95$$

Weight: <None>

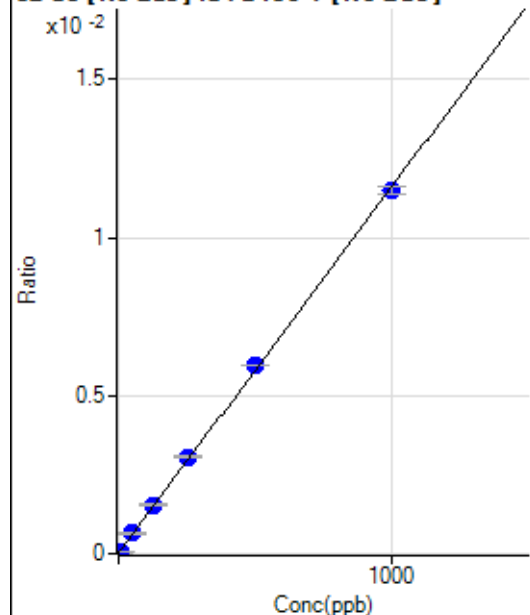
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4183.95		P	3.9
2	☐			4163.96		P	3.0
3	☐			4119.50		P	5.2
4	☐			3976.13		P	4.9
5	☐			3866.09		P	1.9
6	☐			3834.99		P	5.0
7	☐			3749.40		P	3.5
8	☐			4141.73		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			42.22		P	27.7
2	☐			28.89		P	40.5
3	☐			36.67		P	48.1
4	☐			23.33		P	51.5
5	☐			27.78		P	18.3
6	☐			30.00		P	29.4
7	☐			28.89		P	40.5
8	☐			56.66		P	27.0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.80	0.0000	P	33.6
2	☐	5.000	5.611	377.29	0.0001	P	15.3
3	☐	50.000	53.578	2930.15	0.0006	P	1.8
4	☐	125.000	130.867	6690.81	0.0015	P	2.8
5	☐	250.000	261.606	13284.88	0.0030	P	2.1
6	☐	500.000	512.722	26470.83	0.0060	P	0.7
7	☐	1000.000	989.822	51827.75	0.0115	P	2.3
8	☐			151.56	0.0000	P	14.1

$$y = 1.1570E-005 * x + 1.8686E-005$$

$$R = 0.9998$$

$$DL = 1.627$$

$$BEC = 1.615$$

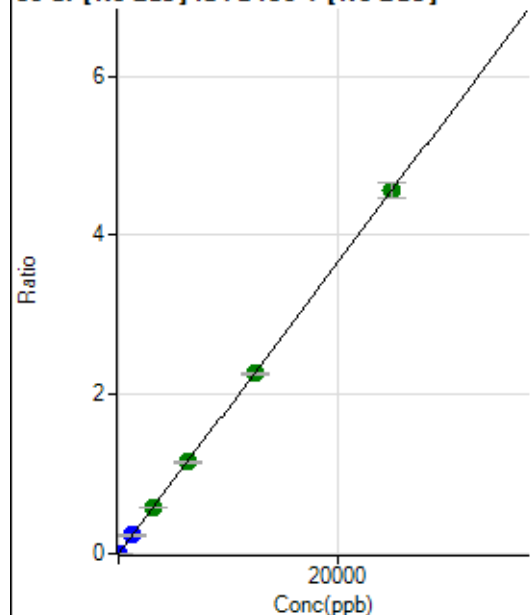
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			160.00		P	14.4
2	☐			140.00		P	29.3
3	☐			105.56		P	16.2
4	☐			151.11		P	5.5
5	☐			127.78		P	11.8
6	☐			134.45		P	7.6
7	☐			131.11		P	7.8
8	☐			156.67		P	7.7

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	230.00	0.0001	P	11.0
2	☐	1.000	0.999	1056.72	0.0002	P	6.7
3	☐	1250.000	1272.940	1065187.83	0.2322	P	2.8
4	☐	3125.000	3198.676	2547188.64	0.5834	A	0.0
5	☐	6250.000	6341.498	5045629.20	1.1565	A	1.6
6	☐	12500.000	12441.931	10092410.13	2.2689	A	1.2
7	☐	25000.000	24995.803	20589668.17	4.5582	A	4.3
8	☐			3771.63	0.0009	P	1.5

$$y = 1.8236\text{E-}004 * x + 5.1772\text{E-}005$$

$$R = 1.0000$$

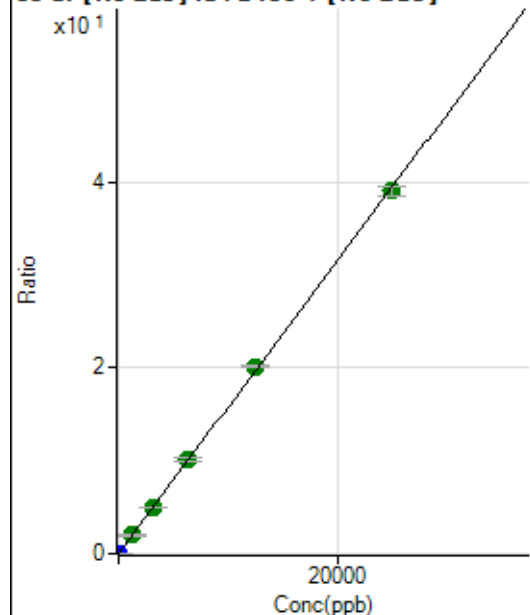
$$DL = 0.09396$$

$$BEC = 0.2839$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	248.89	0.0001	P	12.8
2	☐	1.000	1.059	7787.69	0.0017	P	2.4
3	☐	1250.000	1259.764	9107041.05	1.9850	A	2.6
4	☐	3125.000	3202.305	22028974.40	5.0457	A	1.0
5	☐	6250.000	6400.752	43986824.90	10.0852	A	3.6
6	☐	12500.000	12800.851	89716393.11	20.1693	A	0.4
7	☐	25000.000	24801.735	176563817.3	39.0781	A	2.9
8	☐			31606.27	0.0077	P	3.3

$$y = 0.0016 * x + 5.5895\text{E-}005$$

$$R = 0.9999$$

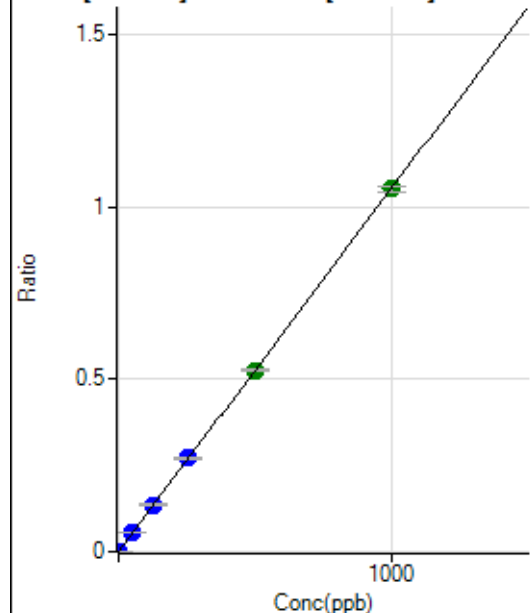
$$DL = 0.01366$$

$$BEC = 0.03547$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	207.78	0.0000	P	19.5
2	☐	1.000	0.950	4731.92	0.0010	P	2.7
3	☐	50.000	50.927	246300.31	0.0537	P	2.0
4	☐	125.000	129.601	596134.01	0.1365	P	0.7
5	☐	250.000	256.683	1179528.45	0.2704	P	1.2
6	☐	500.000	498.547	2335684.12	0.5251	A	1.2
7	☐	1000.000	998.434	4751300.00	1.0515	A	1.8
8	☐			2614.70	0.0006	P	4.7

$$y = 0.0011 * x + 4.6657E-005$$

$$R = 1.0000$$

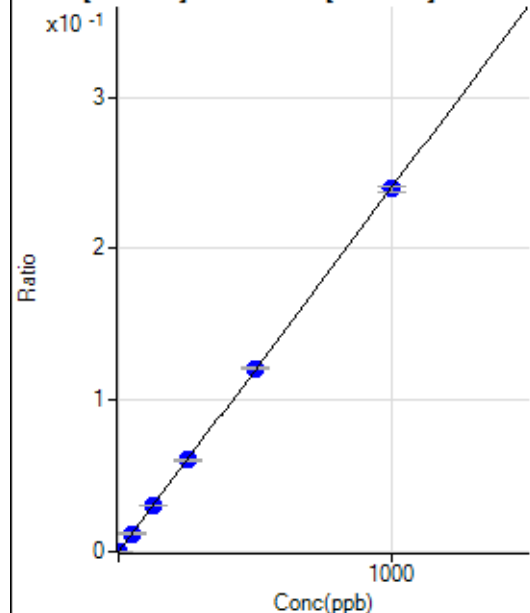
$$DL = 0.02594$$

$$BEC = 0.0443$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	45.55	0.0000	P	12.5
2	☐	1.000	0.941	1066.72	0.0002	P	2.8
3	☐	50.000	49.893	55019.45	0.0120	P	2.9
4	☐	125.000	128.405	134682.94	0.0308	P	1.1
5	☐	250.000	251.385	263446.92	0.0604	P	0.6
6	☐	500.000	503.981	538459.43	0.1211	P	1.4
7	☐	1000.000	997.243	1082270.92	0.2395	P	1.6
8	☐			607.80	0.0001	P	7.6

$$y = 2.4017E-004 * x + 1.0218E-005$$

$$R = 1.0000$$

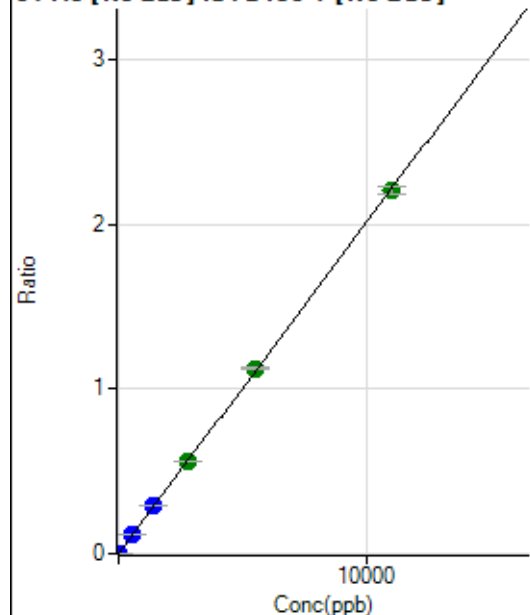
$$DL = 0.01597$$

$$BEC = 0.04254$$

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	88.89	0.0000	P	8.3
2	☐	5.000	6.132	5674.49	0.0013	P	2.9
3	☐	550.000	564.406	522263.58	0.1138	P	2.5
4	☐	1375.000	1453.524	1279728.05	0.2931	P	1.4
5	☐	2750.000	2797.474	2461403.43	0.5641	A	0.8
6	☐	5500.000	5576.253	5001760.59	1.1245	A	1.1
7	☐	11000.000	10939.468	9966830.20	2.2060	A	2.3
8	☐			2924.77	0.0007	P	3.0

$$y = 2.0165E-004 * x + 2.0010E-005$$

$$R = 0.9999$$

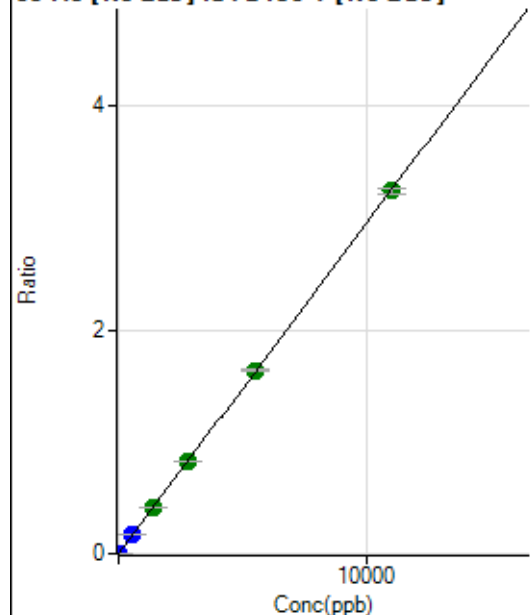
$$DL = 0.02466$$

$$BEC = 0.09923$$

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	37.78	0.0000	P	32.8
2	☐	5.000	5.036	6767.19	0.0015	P	4.3
3	☐	550.000	559.870	759868.91	0.1656	P	1.7
4	☐	1375.000	1409.661	1820585.29	0.4170	A	1.2
5	☐	2750.000	2784.503	3593261.68	0.8236	A	0.7
6	☐	5500.000	5530.773	7276629.96	1.6359	A	0.9
7	☐	11000.000	10971.162	14662570.20	3.2450	A	1.7
8	☐			3097.03	0.0008	P	4.0

$$y = 2.9577E-004 * x + 8.4802E-006$$

$$R = 1.0000$$

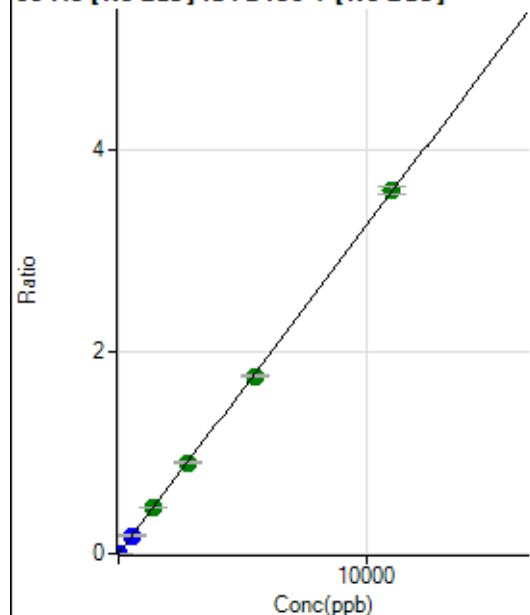
$$DL = 0.02817$$

$$BEC = 0.02867$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	62.22	0.0000	P	40.0
2	☐	5.000	5.195	7704.32	0.0017	P	1.3
3	☐	550.000	553.219	826662.53	0.1802	P	2.5
4	☐	1375.000	1414.529	2011732.00	0.4607	A	2.1
5	☐	2750.000	2753.584	3911816.54	0.8968	A	2.1
6	☐	5500.000	5403.945	7828507.45	1.7599	A	1.2
7	☐	11000.000	11042.029	16247721.15	3.5961	A	2.2
8	☐			5397.71	0.0013	P	1.5

$$y = 3.2567E-004 * x + 1.3958E-005$$

$$R = 0.9999$$

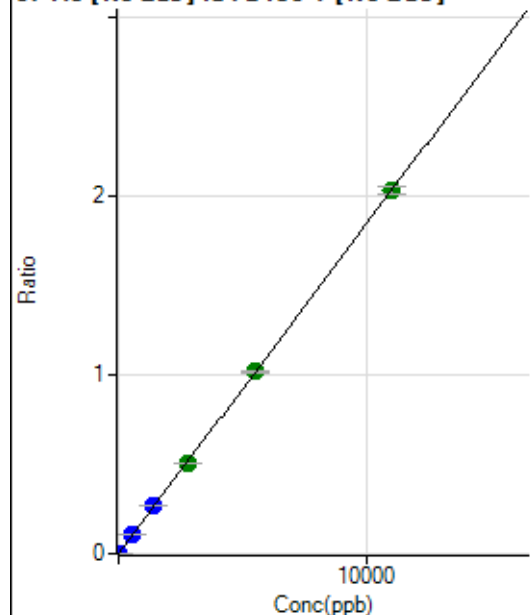
$$DL = 0.05144$$

$$BEC = 0.04286$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18.89	0.0000	P	12.5
2	☐	5.000	4.967	4161.74	0.0009	P	3.6
3	☐	550.000	563.720	477518.61	0.1041	P	2.0
4	☐	1375.000	1447.825	1166945.10	0.2673	P	1.4
5	☐	2750.000	2744.808	2210794.85	0.5067	A	0.8
6	☐	5500.000	5504.964	4520504.86	1.0163	A	0.7
7	☐	11000.000	10989.027	9166129.24	2.0287	A	2.3
8	☐			1964.60	0.0005	P	4.0

$$y = 1.8461E-004 * x + 4.2553E-006$$

$$R = 1.0000$$

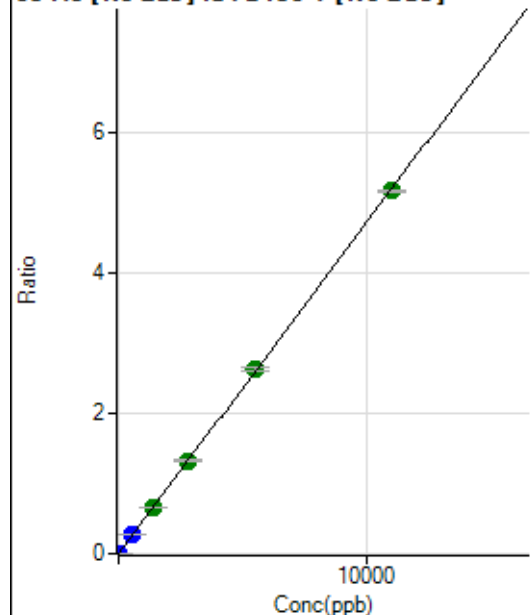
$$DL = 0.008646$$

$$BEC = 0.02305$$

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	40.00	0.0000	P	10.1
2	☐	5.000	5.104	10935.28	0.0024	P	1.9
3	☐	550.000	561.082	1216742.35	0.2652	P	1.9
4	☐	1375.000	1404.034	2897396.34	0.6636	A	0.5
5	☐	2750.000	2809.785	5793357.41	1.3279	A	1.0
6	☐	5500.000	5570.617	11710572.33	2.6327	A	1.1
7	☐	11000.000	10945.562	23377299.10	5.1729	A	0.7
8	☐			4887.53	0.0012	P	2.7

$$y = 4.7261\text{E-}004 * x + 9.0041\text{E-}006$$

$$R = 1.0000$$

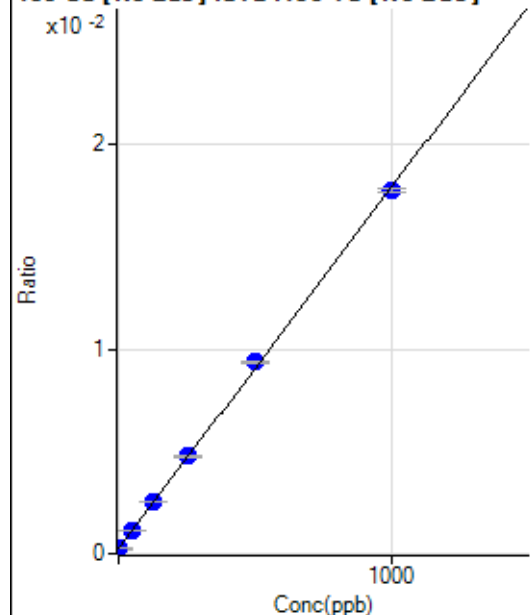
$$DL = 0.005771$$

$$BEC = 0.01905$$

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	995.60	0.0002	P	8.4
2	☐	1.000	1.094	1098.94	0.0003	P	2.5
3	☐	50.000	50.584	4820.84	0.0011	P	1.0
4	☐	125.000	130.317	10528.35	0.0025	P	2.8
5	☐	250.000	254.988	19681.26	0.0047	P	1.7
6	☐	500.000	516.609	38958.89	0.0094	P	1.4
7	☐	1000.000	989.754	75772.99	0.0177	P	1.0
8	☐			978.93	0.0002	P	7.6

$$y = 1.7657\text{E-}005 * x + 2.4090\text{E-}004$$

$$R = 0.9998$$

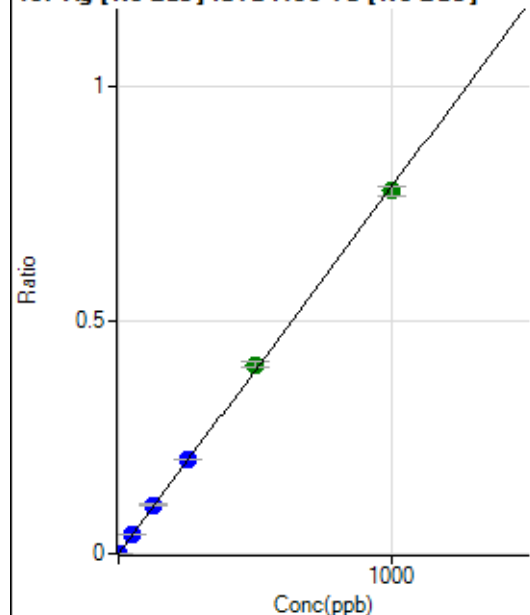
$$DL = 3.439$$

$$BEC = 13.64$$

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	18.89	0.0000	P	73.1
2	☐	1.000	0.950	3171.49	0.0008	P	2.9
3	☐	50.000	52.659	175869.85	0.0414	P	1.6
4	☐	125.000	131.994	429347.65	0.1037	P	3.8
5	☐	250.000	257.197	838539.01	0.2021	P	0.4
6	☐	500.000	516.234	1687782.67	0.4057	A	2.2
7	☐	1000.000	989.077	3323710.30	0.7772	A	2.6
8	☐			462.24	0.0001	P	14.4

$$y = 7.8578\text{E-}004 * x + 4.5465\text{E-}006$$

$$R = 0.9998$$

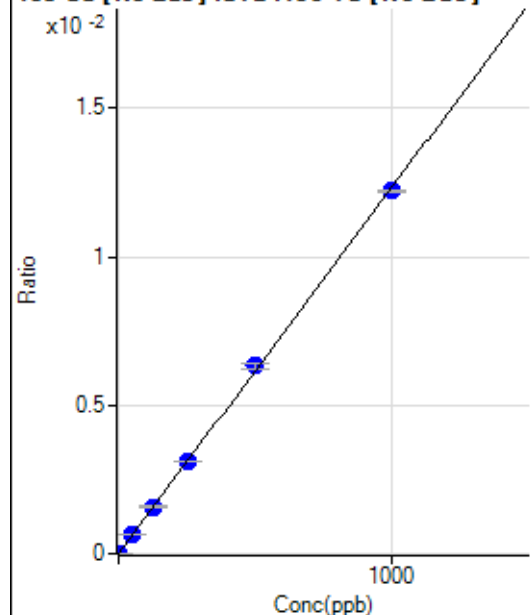
$$DL = 0.01269$$

$$BEC = 0.005786$$

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	5.56	0.0000	P	91.3
2	☐	1.000	1.212	68.89	0.0000	P	15.0
3	☐	50.000	53.399	2800.30	0.0007	P	3.1
4	☐	125.000	128.029	6533.75	0.0016	P	3.3
5	☐	250.000	253.602	12963.69	0.0031	P	0.6
6	☐	500.000	513.252	26301.71	0.0063	P	3.2
7	☐	1000.000	991.925	52251.47	0.0122	P	0.3
8	☐			32.22	0.0000	P	32.0

$$y = 1.2315\text{E-}005 * x + 1.3496\text{E-}006$$

$$R = 0.9999$$

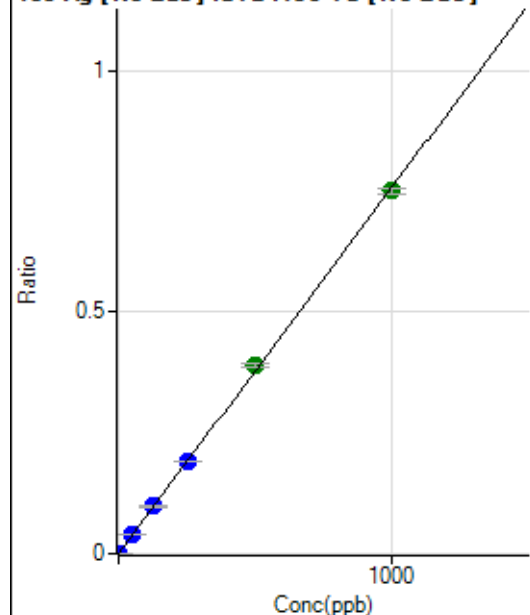
$$DL = 0.3$$

$$BEC = 0.1096$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	11.11	0.0000	P	17.0
2	☐	1.000	0.902	2894.77	0.0007	P	4.6
3	☐	50.000	51.791	166681.49	0.0392	P	2.9
4	☐	125.000	128.911	404181.96	0.0976	P	3.1
5	☐	250.000	253.220	795668.66	0.1918	P	0.9
6	☐	500.000	513.124	1617010.64	0.3886	A	2.0
7	☐	1000.000	992.055	3213419.43	0.7513	A	1.4
8	☐			444.45	0.0001	P	11.3

$$y = 7.5735\text{E-}004 * x + 2.6891\text{E-}006$$

$$R = 0.9999$$

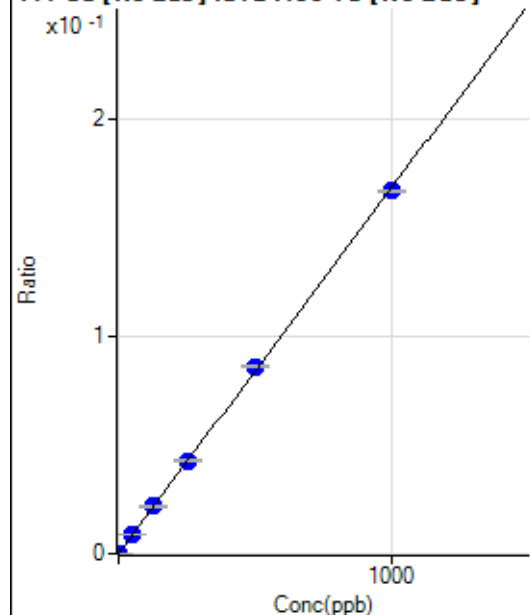
$$DL = 0.001811$$

$$BEC = 0.003551$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	102.40	0.0000	P	7.2
2	☐	1.000	0.940	772.53	0.0002	P	1.7
3	☐	50.000	51.471	36885.76	0.0087	P	2.3
4	☐	125.000	130.458	90907.86	0.0220	P	3.7
5	☐	250.000	254.437	177616.06	0.0428	P	0.9
6	☐	500.000	512.421	358637.65	0.0862	P	1.7
7	☐	1000.000	991.925	713501.93	0.1668	P	0.5
8	☐			233.24	0.0001	P	10.8

$$y = 1.6816\text{E-}004 * x + 2.4777\text{E-}005$$

$$R = 0.9999$$

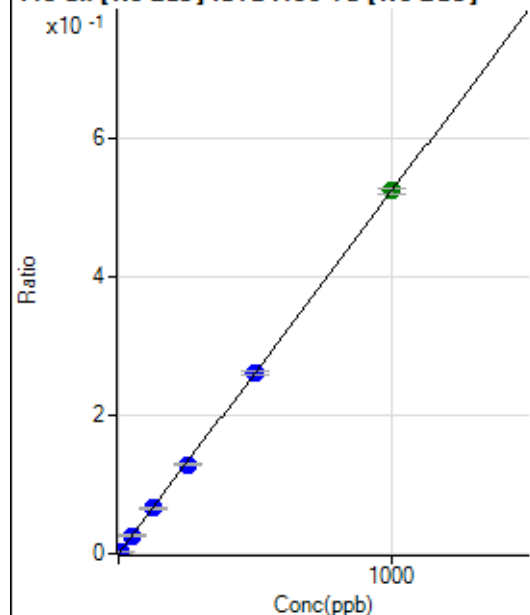
$$DL = 0.03177$$

$$BEC = 0.1473$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	398.90	0.0001	P	8.8
2	☐	5.000	4.822	11050.99	0.0026	P	2.9
3	☐	50.000	49.706	110781.35	0.0261	P	2.8
4	☐	125.000	125.588	272072.00	0.0657	P	3.2
5	☐	250.000	246.268	534318.73	0.1288	P	0.9
6	☐	500.000	499.048	1085393.39	0.2609	P	2.4
7	☐	1000.000	1001.351	2238241.04	0.5234	A	1.6
8	☐			1889.03	0.0005	P	5.7

$$y = 5.2256E-004 * x + 9.6642E-005$$

$$R = 1.0000$$

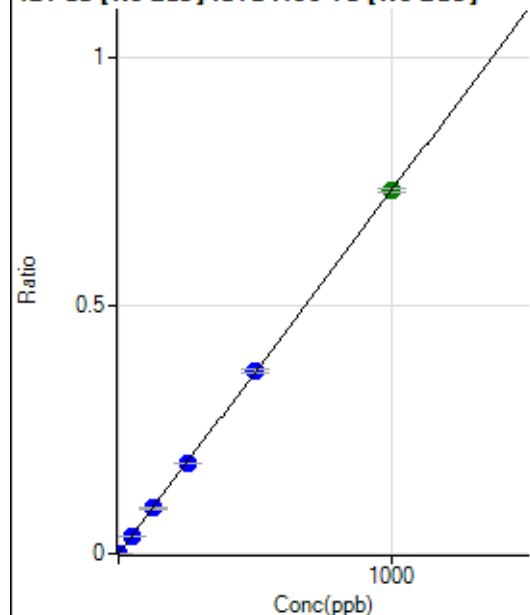
$$DL = 0.04879$$

$$BEC = 0.1849$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	37.78	0.0000	P	31.0
2	☐	2.000	1.926	5993.52	0.0014	P	3.1
3	☐	50.000	49.398	153686.53	0.0362	P	2.3
4	☐	125.000	125.575	380446.23	0.0919	P	4.3
5	☐	250.000	247.593	751950.18	0.1812	P	0.5
6	☐	500.000	502.801	1531363.29	0.3680	P	1.6
7	☐	1000.000	999.159	3127784.30	0.7313	A	1.2
8	☐			2482.46	0.0006	P	5.5

$$y = 7.3195E-004 * x + 9.1515E-006$$

$$R = 1.0000$$

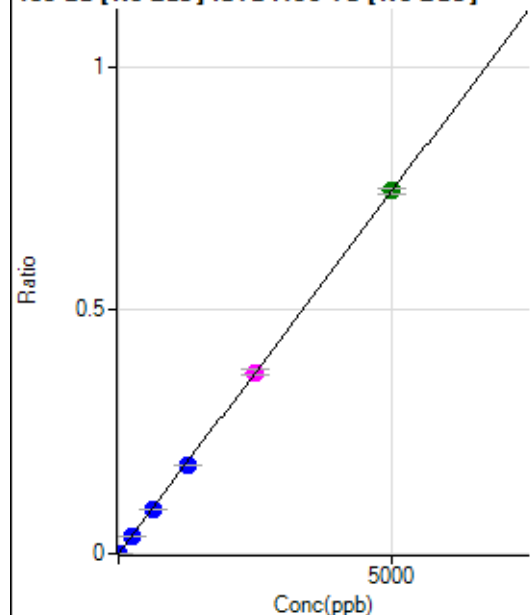
$$DL = 0.01163$$

$$BEC = 0.0125$$

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	18.89	0.0000	P	61.6
2	☐	10.000	9.618	6059.13	0.0014	P	2.6
3	☐	250.000	241.881	152864.21	0.0360	P	2.6
4	☐	625.000	612.358	376943.62	0.0911	P	3.6
5	☐	1250.000	1211.538	747513.21	0.1802	P	0.1
6	☐	2500.000	2506.129	1550350.72	0.3727	M	3.4
7	☐	5000.000	5008.538	3185381.51	0.7448	A	1.3
8	☐			1330.08	0.0003	P	11.5

$$y = 1.4870E-004 * x + 4.5568E-006$$

$$R = 1.0000$$

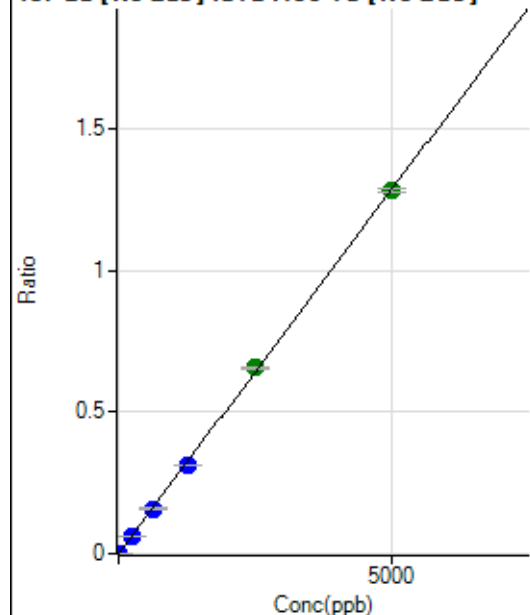
$$DL = 0.05666$$

$$BEC = 0.03064$$

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	30.00	0.0000	P	50.2
2	☐	10.000	9.586	10427.25	0.0025	P	2.6
3	☐	250.000	242.277	264398.12	0.0622	P	2.6
4	☐	625.000	609.802	648137.90	0.1566	P	4.1
5	☐	1250.000	1212.470	1291838.73	0.3114	P	0.1
6	☐	2500.000	2551.388	2726519.13	0.6552	A	0.5
7	☐	5000.000	4985.975	5475977.42	1.2803	A	1.0
8	☐			2163.52	0.0005	P	4.8

$$y = 2.5679E-004 * x + 7.2519E-006$$

$$R = 0.9999$$

$$DL = 0.04249$$

$$BEC = 0.02824$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			5.56		P	34.7
3	☐			22.22		P	45.8
4	☐			45.55		P	46.5
5	☐			34.44		P	43.6
6	☐			63.33		P	5.3
7	☐			178.89		P	8.4
8	☐			67.78		P	27.1

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			2.22		P	86.6
3	☐			3.33		P	173.
4	☐			8.89		P	21.6
5	☐			14.44		P	13.4
6	☐			28.89		P	56.9
7	☐			65.56		P	47.2
8	☐			21.11		P	24.1

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			14.45		P	48.0
2	☐			7.78		P	49.5
3	☐			17.78		P	78.1
4	☐			16.67		P	20.0
5	☐			37.78		P	18.4
6	☐			52.22		P	63.0
7	☐			91.11		P	24.4
8	☐			110.00		P	3.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	173.
2	☐			4.44		P	43.4
3	☐			18.89		P	66.8
4	☐			24.44		P	39.4
5	☐			43.33		P	NaN
6	☐			87.78		P	2.2
7	☐			145.56		P	14.7
8	☐			85.56		P	16.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			15.56		P	12.4
2	☐			16.67		P	20.0
3	☐			27.78		P	59.2
4	☐			38.89		P	35.7
5	☐			36.67		P	36.4
6	☐			44.44		P	18.9
7	☐			65.56		P	15.5
8	☐			104.45		P	20.5

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			132.23		P	18.6
2	☐			113.33		P	10.6
3	☐			123.33		P	18.7
4	☐			116.67		P	24.9
5	☐			122.22		P	14.0
6	☐			131.11		P	14.0
7	☐			145.56		P	27.3
8	☐			188.89		P	12.8

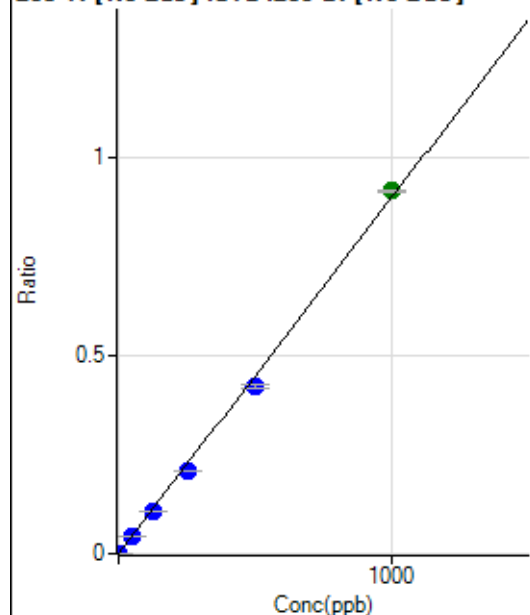
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	7.7
2	☐			31.11		P	6.2
3	☐			41.11		P	40.0
4	☐			42.22		P	12.1
5	☐			55.56		P	21.1
6	☐			63.34		P	9.1
7	☐			114.44		P	20.7
8	☐			104.45		P	35.9

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			28.89		P	46.6
2	☐			18.89		P	36.7
3	☐			18.89		P	20.4
4	☐			22.22		P	22.9
5	☐			30.00		P	29.4
6	☐			26.67		P	33.1
7	☐			66.67		P	17.3
8	☐			67.78		P	30.1

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23.33	0.0000	P	43.4
2	☐	1.000	0.849	1899.04	0.0008	P	6.1
3	☐	50.000	47.190	101848.94	0.0424	P	0.9
4	☐	125.000	119.765	254372.17	0.1075	P	2.0
5	☐	250.000	232.748	511692.05	0.2089	P	0.4
6	☐	500.000	471.269	1044542.05	0.4229	P	1.7
7	☐	1000.000	1019.473	2339443.63	0.9148	A	0.7
8	☐			281.12	0.0001	P	8.7

$$y = 8.9736E-004 * x + 9.7933E-006$$

$$R = 0.9992$$

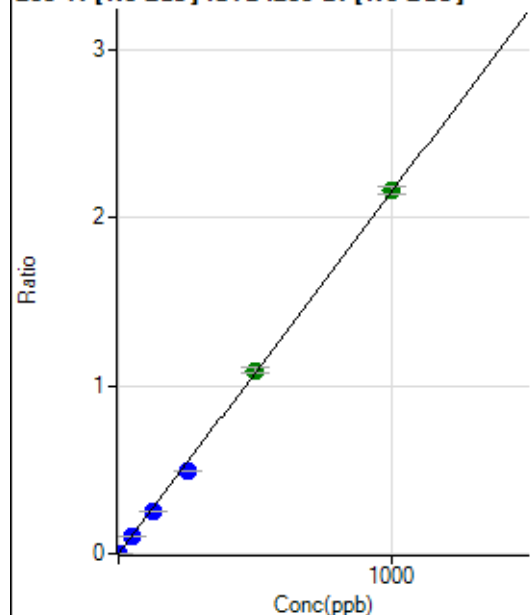
$$DL = 0.01422$$

$$BEC = 0.01091$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	38.89	0.0000	P	21.2
2	☐	1.000	0.882	4710.86	0.0019	P	2.9
3	☐	50.000	46.853	242281.65	0.1008	P	1.1
4	☐	125.000	117.537	598079.71	0.2527	P	2.7
5	☐	250.000	229.938	1211216.38	0.4944	P	0.9
6	☐	500.000	505.550	2684300.57	1.0870	A	3.1
7	☐	1000.000	1003.331	5516480.48	2.1573	A	2.3
8	☐			661.13	0.0003	P	13.1

$$y = 0.0022 * x + 1.6291E-005$$

$$R = 0.9998$$

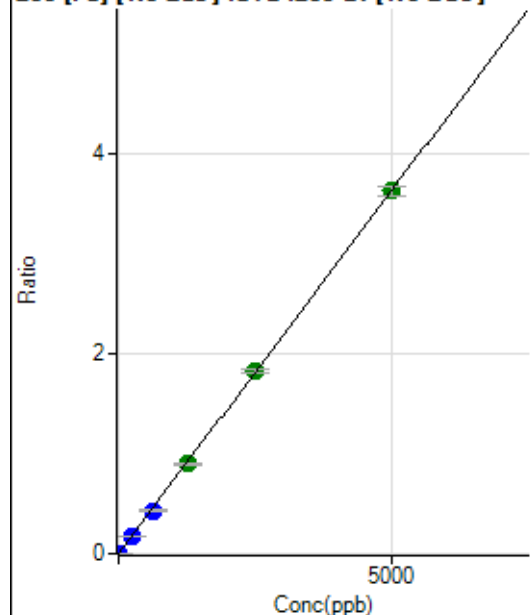
$$DL = 0.004809$$

$$BEC = 0.007577$$

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	138.89	0.0001	P	15.2
2	☐	1.000	0.881	1715.68	0.0007	P	2.7
3	☐	250.000	236.764	412793.04	0.1717	P	0.2
4	☐	625.000	589.576	1011401.38	0.4274	P	3.1
5	☐	1250.000	1239.970	2201807.33	0.8988	A	1.9
6	☐	2500.000	2516.790	4505047.05	1.8243	A	2.7
7	☐	5000.000	4999.202	9264905.00	3.6235	A	2.3
8	☐			2975.92	0.0013	P	3.2

$$y = 7.2481E-004 * x + 5.8269E-005$$

$$R = 1.0000$$

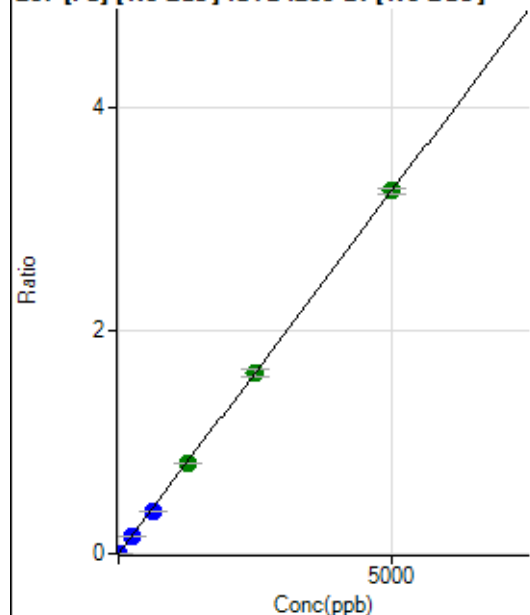
$$DL = 0.03678$$

$$BEC = 0.08039$$

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	122.22	0.0001	P	15.9
2	☐	1.000	0.858	1497.88	0.0006	P	1.2
3	☐	250.000	232.420	362929.44	0.1509	P	1.3
4	☐	625.000	581.801	893975.09	0.3777	P	1.9
5	☐	1250.000	1248.792	1986081.24	0.8107	A	1.3
6	☐	2500.000	2502.707	4011618.24	1.6247	A	3.9
7	☐	5000.000	5005.227	8308288.56	3.2493	A	1.9
8	☐			2612.50	0.0012	P	0.7

$$y = 6.4917E-004 * x + 5.1236E-005$$

$$R = 1.0000$$

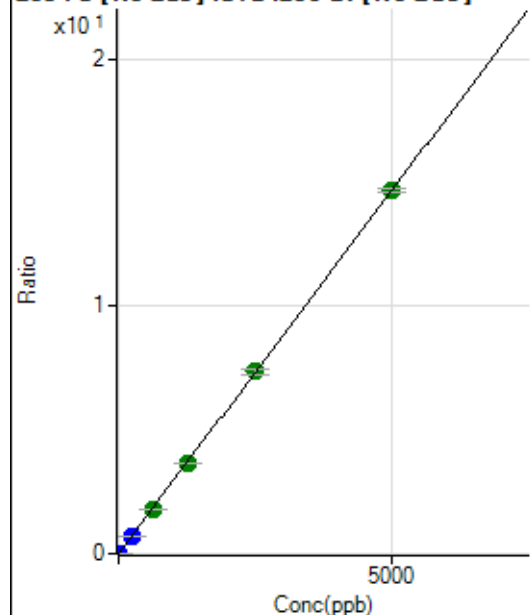
$$DL = 0.03771$$

$$BEC = 0.07893$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	637.79	0.0003	P	7.9
2	☐	1.000	0.854	6832.96	0.0028	P	2.5
3	☐	250.000	232.982	1644641.11	0.6839	P	0.6
4	☐	625.000	606.872	4215068.11	1.7811	A	2.3
5	☐	1250.000	1246.082	8958664.54	3.6569	A	1.5
6	☐	2500.000	2505.868	18161081.67	7.3537	A	2.2
7	☐	5000.000	5001.162	37528399.24	14.6761	A	1.1
8	☐			11912.18	0.0053	P	1.7

$$y = 0.0029 * x + 2.6747E-004$$

$$R = 1.0000$$

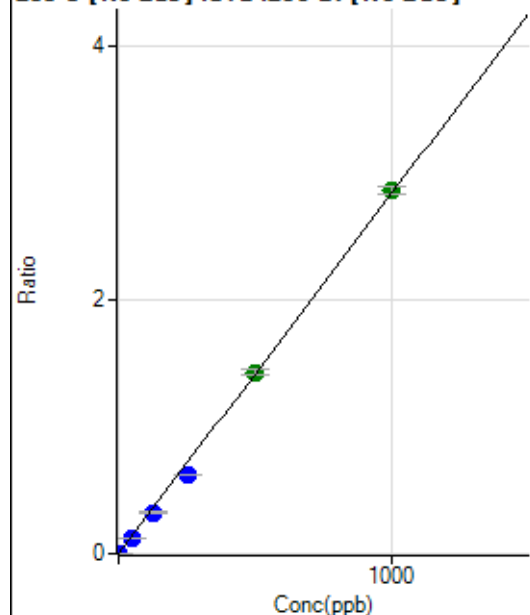
$$DL = 0.02165$$

$$BEC = 0.09115$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	15.55	0.0000	P	86.6
2	☐	1.000	0.824	5763.54	0.0023	P	2.2
3	☐	50.000	43.511	296464.98	0.1233	P	1.2
4	☐	125.000	113.547	761404.21	0.3217	P	2.5
5	☐	250.000	219.847	1525998.24	0.6229	P	0.9
6	☐	500.000	502.658	3516980.09	1.4242	A	3.1
7	☐	1000.000	1007.965	7302453.78	2.8559	A	2.0
8	☐			504.46	0.0002	P	4.3

$$y = 0.0028 * x + 6.5235E-006$$

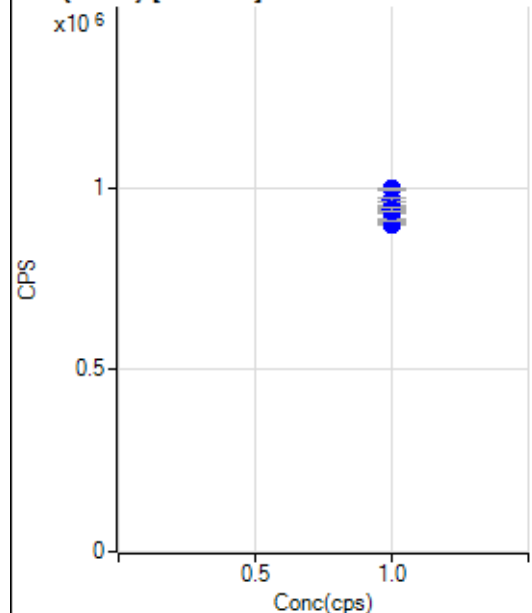
$$R = 0.9995$$

$$DL = 0.005982$$

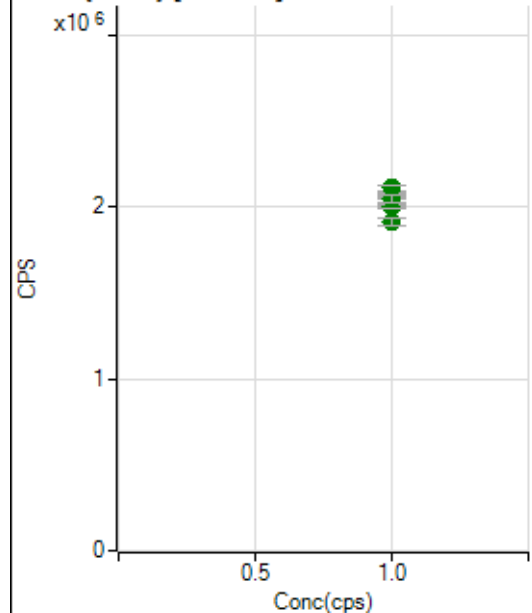
$$BEC = 0.002302$$

Weight: <None>

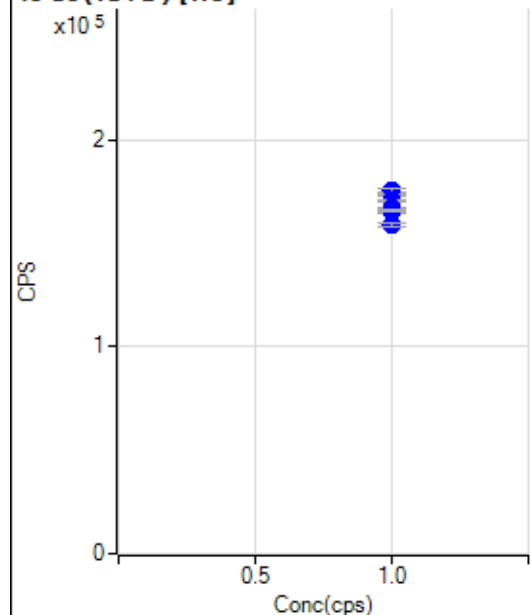
Min Conc: 0

6 Li (ISTD) [No Gas]

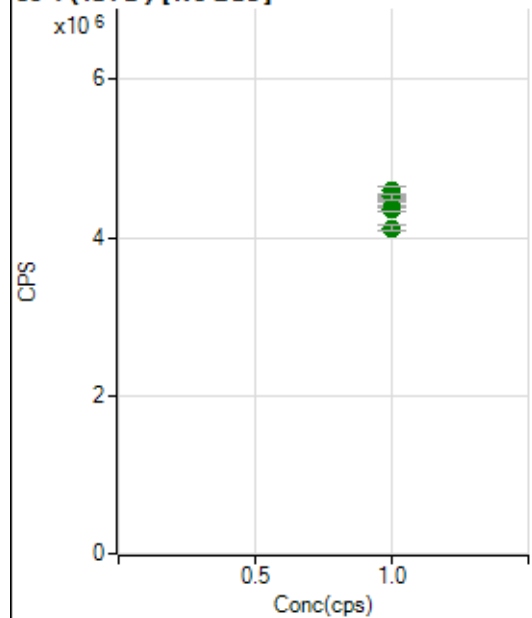
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		901690.54		P	0.4
2	☐	1.000		912413.18		P	1.0
3	☐	1.000		912415.17		P	0.8
4	☐	1.000		934762.65		P	0.7
5	☐	1.000		948077.32		P	0.8
6	☐	1.000		969770.19		P	1.1
7	☐	1.000		998041.03		P	0.7
8	☐	1.000		942265.87		P	1.2

45 Sc (ISTD) [No Gas]

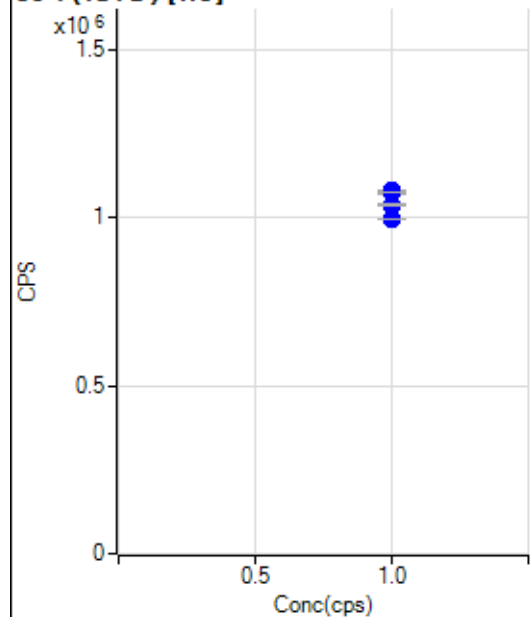
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2071105.66		A	0.9
2	☐	1.000		2113250.44		A	1.8
3	☐	1.000		2070534.52		A	1.0
4	☐	1.000		2055302.04		A	2.2
5	☐	1.000		2028443.09		A	2.5
6	☐	1.000		2003418.04		A	1.1
7	☐	1.000		2049170.37		A	2.3
8	☐	1.000		1916423.83		A	2.2

45 Sc (ISTD) [He]

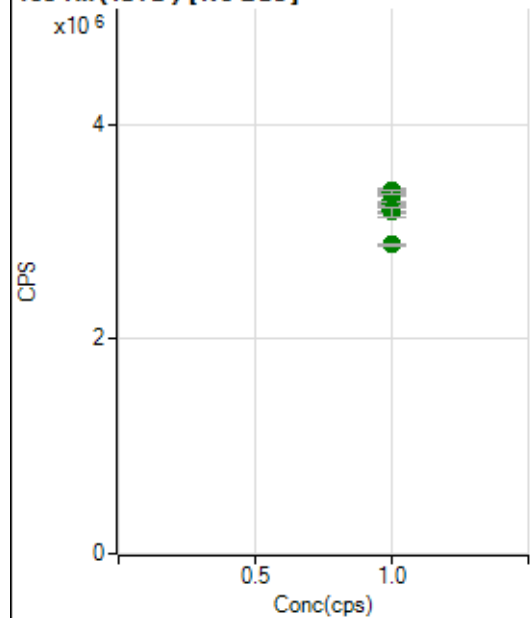
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		173523.15		P	1.1
2	☐	1.000		175249.21		P	1.3
3	☐	1.000		170703.55		P	0.5
4	☐	1.000		166860.47		P	0.8
5	☐	1.000		166450.51		P	0.4
6	☐	1.000		165392.21		P	0.9
7	☐	1.000		165834.05		P	0.5
8	☐	1.000		158854.90		P	0.7

89 Y (ISTD) [No Gas]

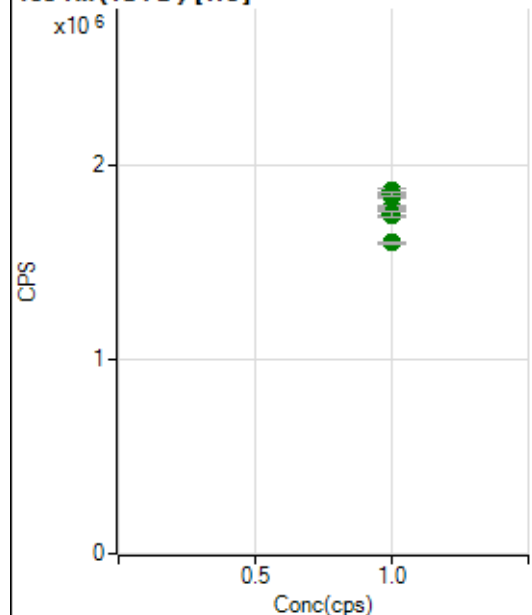
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4448620.11		A	2.6
2	☐	1.000		4516675.52		A	0.9
3	☐	1.000		4589637.88		A	2.2
4	☐	1.000		4366457.99		A	1.8
5	☐	1.000		4363029.14		A	1.5
6	☐	1.000		4448158.23		A	0.2
7	☐	1.000		4519403.40		A	1.8
8	☐	1.000		4113603.17		A	1.7

89 Y (ISTD) [He]

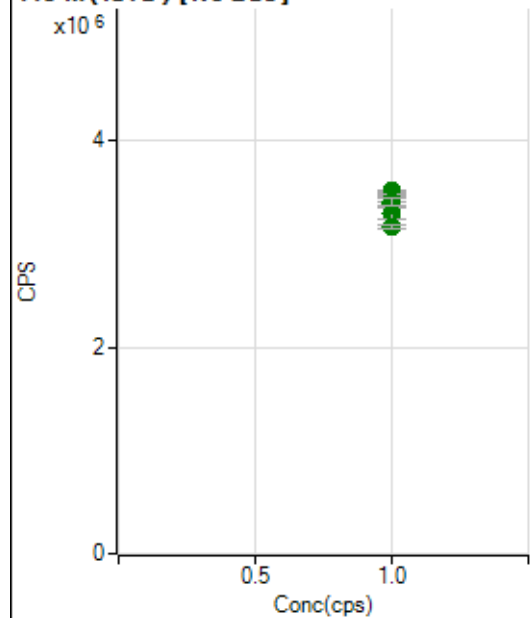
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1073953.24		P	0.5
2	☐	1.000		1079844.49		P	0.5
3	☐	1.000		1076167.29		P	0.3
4	☐	1.000		1038435.50		P	0.3
5	☐	1.000		1035340.37		P	0.4
6	☐	1.000		1035052.27		P	0.2
7	☐	1.000		1036827.67		P	0.5
8	☐	1.000		995985.87		P	0.3

103 Rh (ISTD) [No Gas]

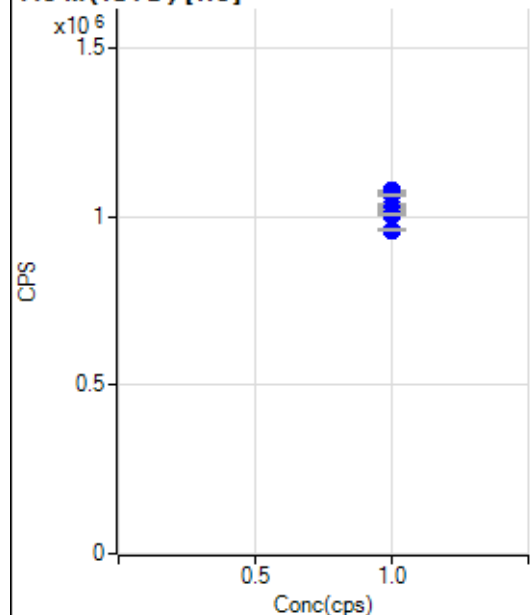
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3299828.53		A	1.9
2	☐	1.000		3379646.48		A	0.9
3	☐	1.000		3360978.63		A	1.0
4	☐	1.000		3257270.12		A	0.9
5	☐	1.000		3199517.80		A	1.5
6	☐	1.000		3208243.53		A	1.6
7	☐	1.000		3182639.53		A	2.5
8	☐	1.000		2875888.64		A	0.5

103 Rh (ISTD) [He]

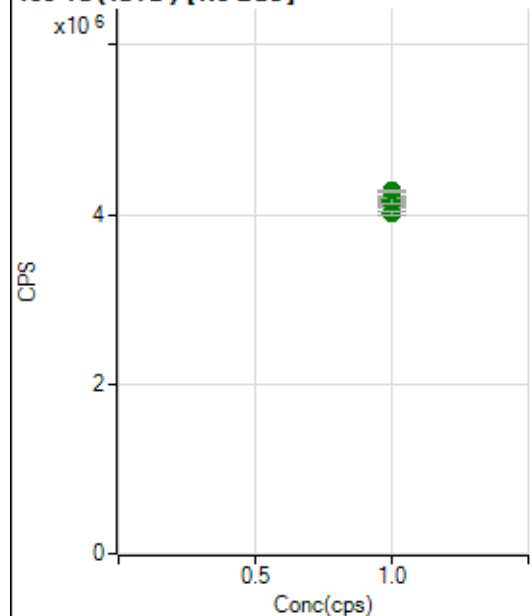
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1868918.36		A	1.5
2	☐	1.000		1842257.92		A	1.0
3	☐	1.000		1850169.47		A	1.1
4	☐	1.000		1776083.50		A	0.7
5	☐	1.000		1784980.62		A	0.4
6	☐	1.000		1756738.64		A	1.8
7	☐	1.000		1746430.69		A	1.5
8	☐	1.000		1601373.59		A	0.6

115 In (ISTD) [No Gas]

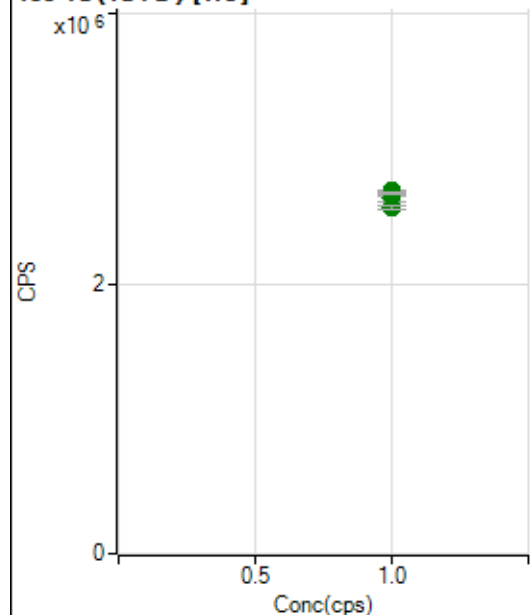
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3452224.40		A	0.4
2	☐	1.000		3510138.64		A	0.8
3	☐	1.000		3485644.25		A	0.1
4	☐	1.000		3296314.54		A	3.2
5	☐	1.000		3379394.03		A	1.8
6	☐	1.000		3376696.43		A	2.1
7	☐	1.000		3404677.10		A	1.9
8	☐	1.000		3165321.21		A	1.3

115 In (ISTD) [He]

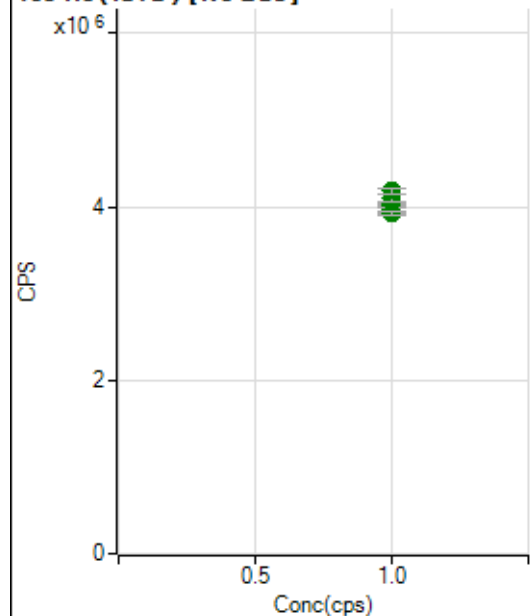
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1063849.61		P	0.5
2	☐	1.000		1075951.16		P	0.4
3	☐	1.000		1064513.06		P	0.5
4	☐	1.000		1029660.43		P	0.7
5	☐	1.000		1034517.52		P	0.7
6	☐	1.000		1019134.57		P	0.7
7	☐	1.000		1005425.97		P	0.3
8	☐	1.000		959811.28		P	0.6

159 Tb (ISTD) [No Gas]

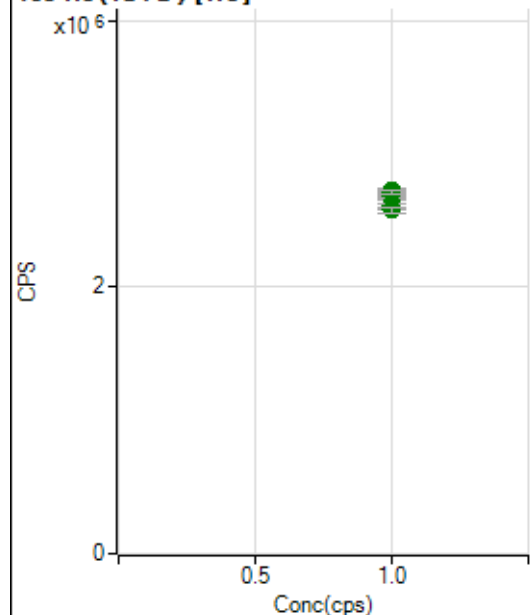
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4130464.28		A	1.2
2	☐	1.000		4224480.67		A	2.1
3	☐	1.000		4250593.24		A	1.7
4	☐	1.000		4142356.36		A	3.1
5	☐	1.000		4149116.12		A	0.9
6	☐	1.000		4161583.93		A	1.5
7	☐	1.000		4276962.40		A	0.6
8	☐	1.000		4015574.04		A	1.2

159 Tb (ISTD) [He]

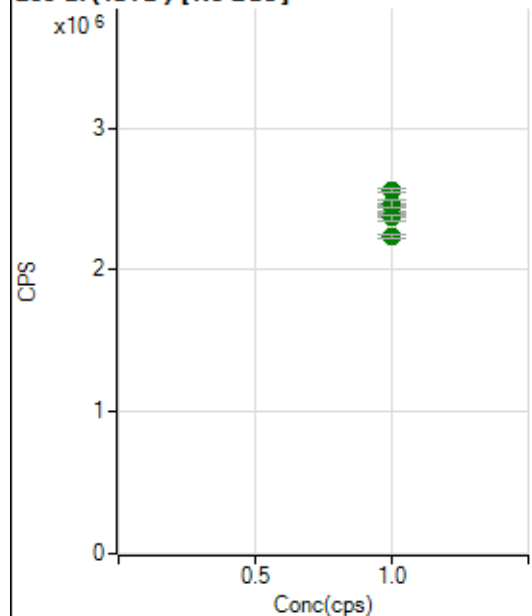
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2671259.73		A	1.1
2	☐	1.000		2688127.77		A	0.6
3	☐	1.000		2629230.60		A	1.2
4	☐	1.000		2570289.63		A	1.1
5	☐	1.000		2686994.96		A	0.2
6	☐	1.000		2663060.53		A	1.1
7	☐	1.000		2674189.01		A	0.8
8	☐	1.000		2564337.29		A	1.4

165 Ho (ISTD) [No Gas]

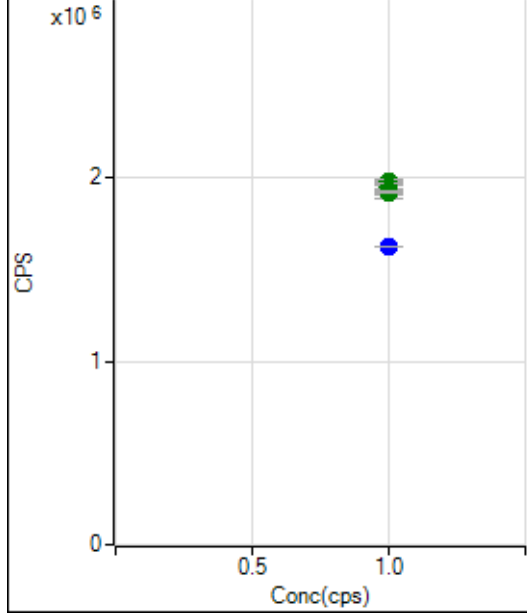
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4000198.94		A	1.0
2	☐	1.000		4006610.46		A	0.9
3	☐	1.000		4043948.52		A	0.7
4	☐	1.000		3962848.17		A	1.9
5	☐	1.000		4023074.56		A	1.4
6	☐	1.000		4102154.18		A	2.2
7	☐	1.000		4181646.92		A	1.8
8	☐	1.000		3927988.28		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2722158.26		A	0.7
2	☐	1.000		2701017.36		A	0.9
3	☐	1.000		2710345.48		A	2.0
4	☐	1.000		2604514.11		A	2.0
5	☐	1.000		2676985.31		A	1.2
6	☐	1.000		2690024.40		A	1.8
7	☐	1.000		2709786.38		A	0.7
8	☐	1.000		2578772.69		A	1.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2385467.01		A	0.8
2	☐	1.000		2462470.35		A	0.7
3	☐	1.000		2404606.87		A	0.2
4	☐	1.000		2367169.88		A	1.8
5	☐	1.000		2449802.72		A	0.6
6	☐	1.000		2470498.32		A	2.3
7	☐	1.000		2557323.87		A	1.2
8	☐	1.000		2238849.20		A	1.0

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1979577.47		A	0.8
2	☐	1.000		1980314.75		A	1.7
3	☐	1.000		1955328.18		A	1.4
4	☐	1.000		1916846.78		A	2.5
5	☐	1.000		1934040.21		A	0.9
6	☐	1.000		1927707.89		A	1.5
7	☐	1.000		1925956.55		A	0.7
8	☐	1.000		1631251.71		P	0.1

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7082984MS.b

Acq. Date-Time 2024-08-29 12:53:58

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		3428	34276.07			0.290	5.000
24		41292	412918.54			1.436	5.000
25		5357	53572.82			1.091	5.000
26		6364	63638.20			0.771	5.000
59		26880	268796.69			0.336	5.000
113		3826	38255.98			0.522	5.000
115		44177	441769.37			0.707	5.000
206		8084	80841.54			0.721	5.000
207		7351	73513.72			0.948	5.000
208		17327	173273.29			0.257	5.000
220		1	9.40			5.827	

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	3443	3427	3428	3422	3417
24	40420	40977	41476	41866	41719
25	5265	5347	5360	5398	5416
26	6302	6358	6344	6379	6436
59	26727	26958	26919	26877	26917
113	3834	3853	3823	3819	3799
115	44278	44472	44353	43670	44112
206	8131	8044	8008	8091	8146
207	7454	7276	7359	7297	7370
208	17376	17327	17364	17303	17267

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	5690.01	8.95	8.90 - 9.10	
24	71886.83	24.00	23.90 - 24.10	
25	9420.34	25.00	24.90 - 25.10	
26	10871.47	26.00	25.90 - 26.10	
59	44429.83	58.90	58.90 - 59.10	
113	6844.51	112.95	112.90 - 113.10	
115	80019.19	114.95	114.90 - 115.10	
206	15143.85	206.00	205.90 - 206.10	
207	13712.47	207.00	206.90 - 207.10	
208	32468.53	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.777	0.900	
24	0.61	0.798	0.900	
25	0.60	0.783	0.900	
26	0.59	0.781	0.900	
59	0.64	0.786	0.900	
113	0.57	0.765	0.900	
115	0.57	0.776	0.900	
206	0.54	0.777	0.900	
207	0.54	0.770	0.900	
208	0.54	0.787	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.82 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.6 V	Deflect	16.0 V
Extract 2	-115.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-60 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9979	QP Bias	-3.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		9074	90740.30			1.059	
89		8336	83361.36			0.968	
205		8636	86364.90			1.191	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	9229	9091	9054	9015	8981
89	8336	8432	8364	8340	8209
205	8765	8716	8600	8510	8592

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.82 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.1 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-155.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-80 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		

QP Parameters

Mass Gain	136	Axis Gain	0.9979	QP Bias	-13.0 V
Mass Offset	129	Axis Offset	0.08		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	0.7 mm
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EM

Discriminator	4.8 mV	Analog HV	2328 V	Pulse HV	1482 V
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