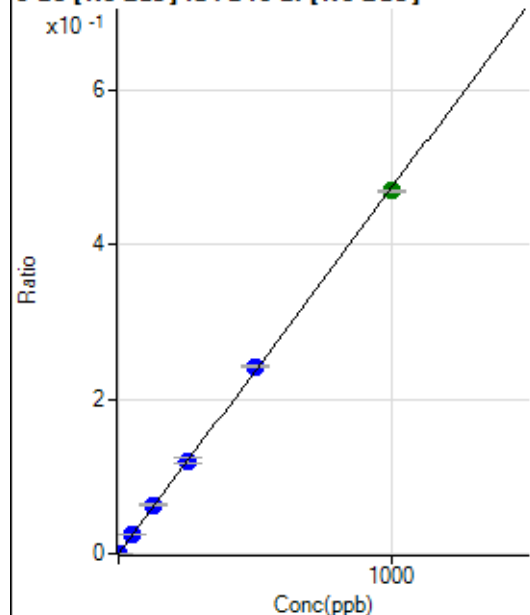


Calibration for 010CAL.S.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7103122-MS.b\
 Analysis File: P7103122-MS.batch.bin
 DA Date-Time: 2022-10-31 18:19:26
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2022-10-31 14:19:35
2	005CAL.S.d	S02	2022-10-31 14:24:46
3	006CAL.S.d	S03	2022-10-31 14:27:37
4	007CAL.S.d	S04	2022-10-31 14:30:26
5	008CAL.S.d	S05	2022-10-31 14:33:09
6	009CAL.S.d	S06	2022-10-31 14:35:55
7	010CAL.S.d	S07	2022-10-31 14:38:40
8	011CAL.S.d	S08	2022-10-31 14:41:26

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	112.22	0.0000	P	10.8
2	☐	1.000	1.097	1360.07	0.0006	P	1.4
3	☐	50.000	53.849	62077.76	0.0255	P	1.8
4	☐	125.000	133.364	153207.11	0.0631	P	1.5
5	☐	250.000	254.105	300054.04	0.1202	P	6.5
6	☐	500.000	511.556	578322.54	0.2420	P	1.5
7	☐	1000.000	991.957	1121050.90	0.4691	A	0.5
8	☐			716.69	0.0003	P	7.5

$$y = 4.7289\text{E-}004 * x + 4.5136\text{E-}005$$

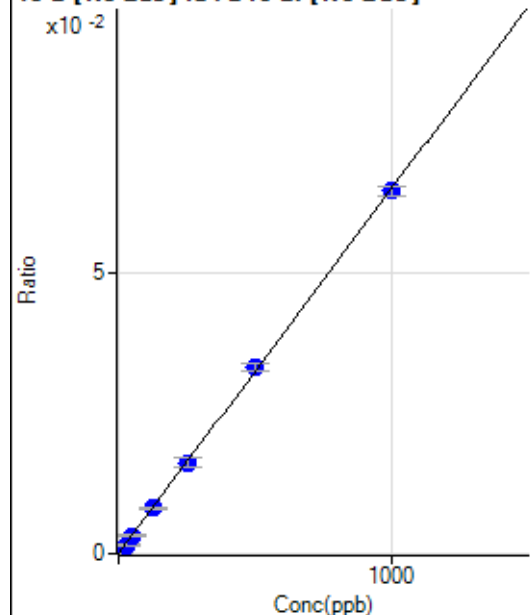
$$R = 0.9999$$

$$DL = 0.03079$$

$$BEC = 0.09545$$

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	97.22	0.0000	P	23.2
2	☐	25.000	22.172	3569.94	0.0015	P	10.1
3	☐	50.000	48.909	7829.94	0.0032	P	4.4
4	☐	125.000	124.832	19776.99	0.0081	P	5.6
5	☐	250.000	249.764	40584.40	0.0163	P	8.7
6	☐	500.000	512.106	79643.72	0.0333	P	4.6
7	☐	1000.000	994.152	154472.45	0.0646	P	2.7
8	☐			4745.29	0.0021	P	6.7

$$y = 6.4969\text{E-}005 * x + 3.9211\text{E-}005$$

$$R = 0.9999$$

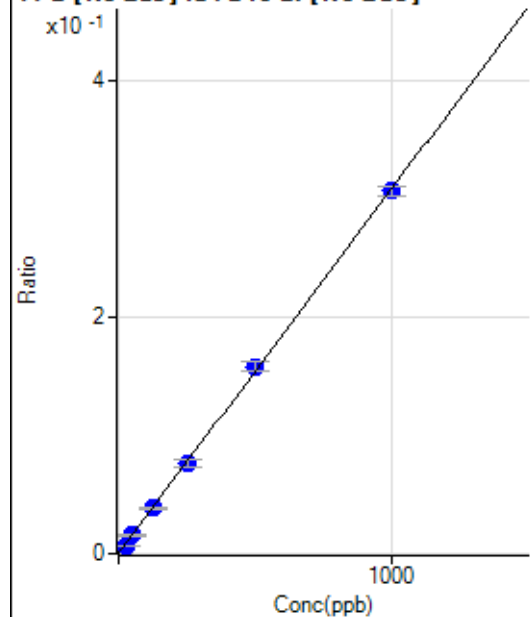
$$DL = 0.4207$$

$$BEC = 0.6035$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	716.70	0.0003	P	8.2
2	☐	25.000	21.178	16414.64	0.0068	P	5.1
3	☐	50.000	50.101	38214.58	0.0157	P	5.0
4	☐	125.000	124.701	93808.99	0.0386	P	4.8
5	☐	250.000	245.767	189350.94	0.0759	P	8.3
6	☐	500.000	512.784	377823.89	0.1580	P	4.5
7	☐	1000.000	994.794	732080.99	0.3063	P	2.7
8	☐			22388.91	0.0099	P	7.4

$$y = 3.0761\text{E-}004 * x + 2.8820\text{E-}004$$

$$R = 0.9999$$

$$DL = 0.2294$$

$$BEC = 0.9369$$

Weight: <None>

Min Conc: 0

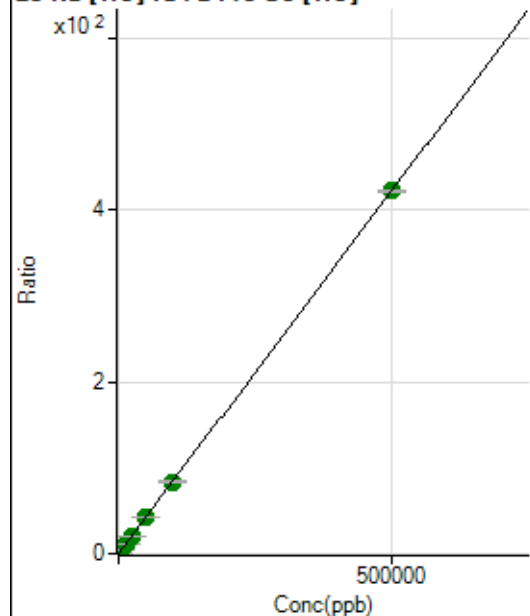
12 C [No Gas] No available calibration points



	R _j 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	23813.06	0.0428	P	1.5
2	☐	500.000	532.994	265284.26	0.4929	P	0.9
3	☐	5000.000	5252.988	2448018.72	4.4789	A	0.3
4	☐	12500.000	13056.491	5918306.44	11.0690	A	0.6
5	☐	25000.000	24913.236	11613634.17	21.0819	A	0.8
6	☐	50000.000	49280.869	22524650.97	41.6604	A	0.5
7	☐	100000.00	99272.113	44870493.13	83.8778	A	0.6
8	☐	500000.00	500205.35	219911578.9	422.4650	A	0.6

$$y = 8.4450E-004 * x + 0.0428$$

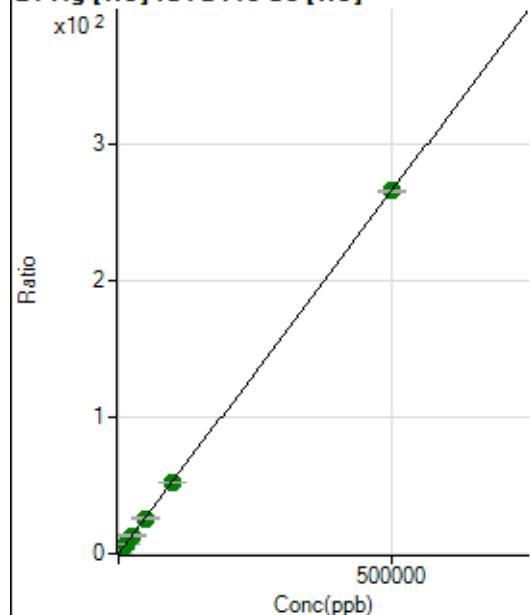
$$R = 1.0000$$

$$DL = 2.339$$

$$BEC = 50.66$$

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	1448.24	0.0026	P	2.9
2	☐	500.000	494.168	142722.42	0.2652	P	0.9
3	☐	5000.000	5237.451	1522450.26	2.7855	A	1.0
4	☐	12500.000	13031.902	3703666.40	6.9270	A	0.5
5	☐	25000.000	24996.952	7316837.66	13.2845	A	1.6
6	☐	50000.000	48976.034	14071093.14	26.0256	A	0.6
7	☐	100000.00	98672.980	28046945.53	52.4316	A	1.2
8	☐	500000.00	500352.28	138392355.8	265.8603	A	0.8

$$y = 5.3134\text{E-}004 * x + 0.0026$$

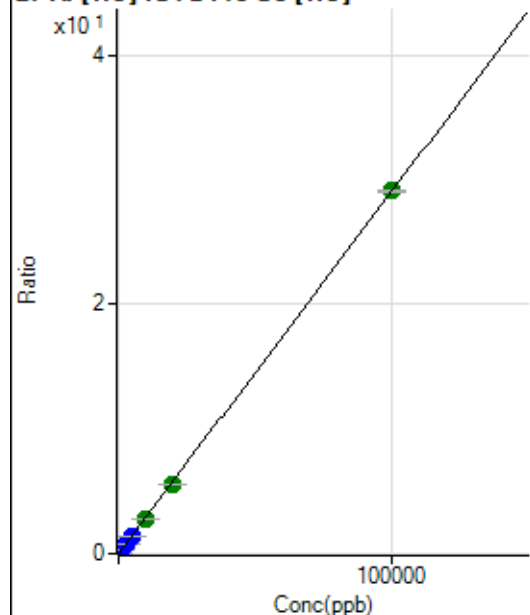
$$R = 1.0000$$

$$DL = 0.4271$$

$$BEC = 4.896$$

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	120.37	0.0002	P	12.0
2	☐	20.000	20.669	3348.56	0.0062	P	5.9
3	☐	1000.000	1025.740	162942.27	0.2981	P	0.4
4	☐	2500.000	2532.465	393359.49	0.7357	P	0.4
5	☐	5000.000	4849.344	775896.60	1.4086	P	1.7
6	☐	10000.000	9521.427	1495207.59	2.7655	A	1.3
7	☐	20000.000	19112.592	2969622.78	5.5511	A	0.9
8	☐	100000.00	100231.80	15153326.61	29.1105	A	0.6

$$y = 2.9043\text{E-}004 * x + 2.1632\text{E-}004$$

$$R = 0.9999$$

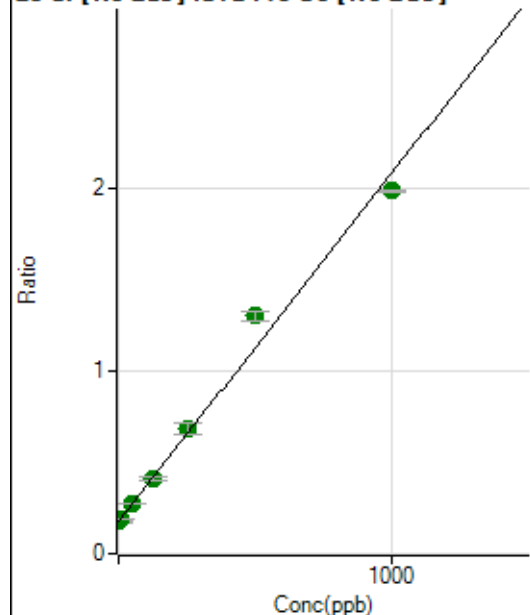
$$DL = 0.2671$$

$$BEC = 0.7448$$

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	1187642.86	0.1750	A	2.0
2	☐	10.000	5.560	1200130.16	0.1856	A	0.8
3	☐	50.000	53.189	1817953.58	0.2763	A	1.5
4	☐	125.000	123.883	2677727.88	0.4109	A	4.7
5	☐	250.000	268.624	4674074.41	0.6865	A	8.8
6	☐	500.000	590.968	8384533.69	1.3001	A	4.5
7	☐	1000.000	949.885	12936555.93	1.9834	A	0.6
8	☐			1647705.63	0.2577	A	3.7

$$y = 0.0019 * x + 0.1750$$

$$R = 0.9933$$

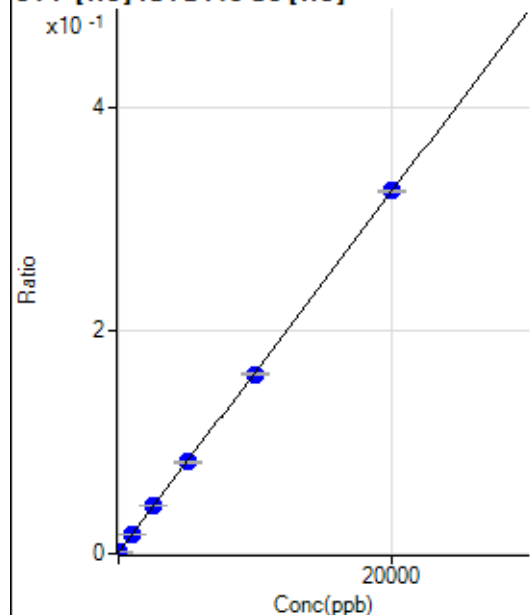
$$DL = 5.633$$

$$BEC = 91.95$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-10.645	422.24	0.0008	P	12.1
2	☐	0.000	10.645	594.47	0.0011	P	26.8
3	☐	1000.000	1021.501	9556.00	0.0175	P	6.4
4	☐	2500.000	2569.604	22761.81	0.0426	P	1.0
5	☐	5000.000	5029.069	45406.93	0.0824	P	1.8
6	☐	10000.000	9861.248	86910.20	0.1607	P	1.1
7	☐	20000.000	20052.333	174326.71	0.3259	P	0.2
8	☐			441.68	0.0008	P	6.5

$$y = 1.6205E-005 * x + 9.3124E-004$$

$$R = 1.0000$$

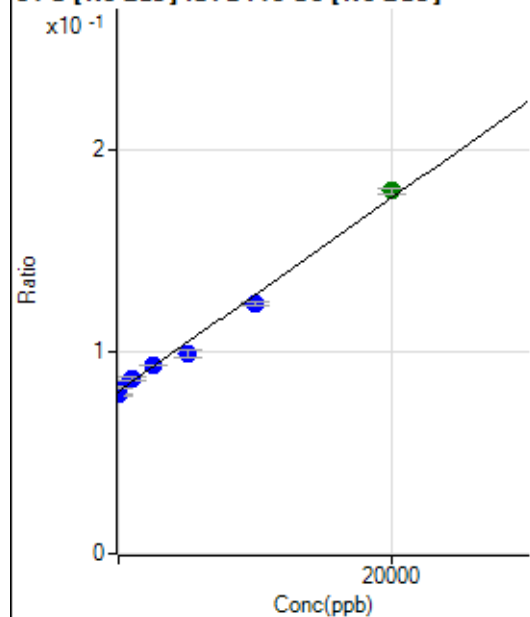
$$DL = 35.89$$

$$BEC = 57.47$$

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	-378.424	534549.92	0.0788	P	1.7
2	☐	0.000	378.424	532817.27	0.0824	P	1.0
3	☐	1000.000	1361.537	573109.21	0.0871	P	2.2
4	☐	2500.000	2674.543	608941.23	0.0934	P	0.7
5	☐	5000.000	3882.286	676446.56	0.0992	P	3.4
6	☐	10000.000	9043.710	799507.02	0.1240	P	1.1
7	☐	20000.000	20717.678	1173687.98	0.1800	A	1.3
8	☐			467219.58	0.0731	P	1.9

$$y = 4.7961\text{E-}006 * x + 0.0806$$

$$R = 0.9955$$

$$DL = 666.7$$

$$BEC = 1.681\text{E}+04$$

Weight: <None>

Min Conc: 0

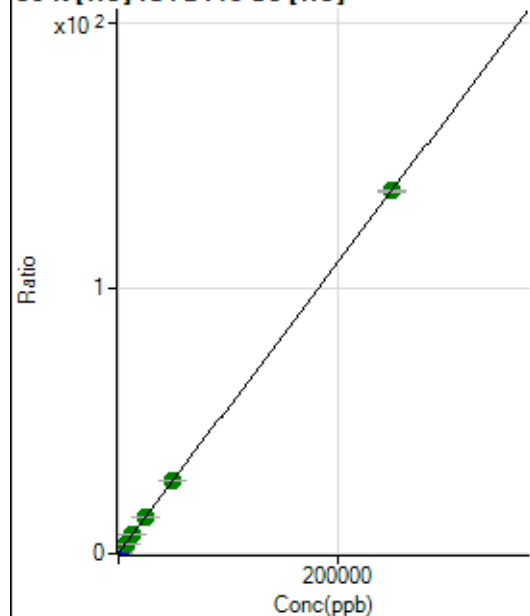
35 Cl [No Gas] No available calibration points



	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	127486.44	0.2290	P	0.4
2	☐	500.000	539.355	281768.61	0.5235	P	0.5
3	☐	2500.000	2835.786	971385.32	1.7773	P	0.6
4	☐	6250.000	6539.281	2031266.82	3.7992	A	0.8
5	☐	12500.000	12496.206	3884002.08	7.0515	A	0.9
6	☐	25000.000	24361.890	7315177.51	13.5297	A	0.7
7	☐	50000.000	49569.427	14600300.50	27.2920	A	0.7
8	☐	250000.00	250139.44	71208073.82	136.7956	A	0.3

$$y = 5.4596E-004 * x + 0.2290$$

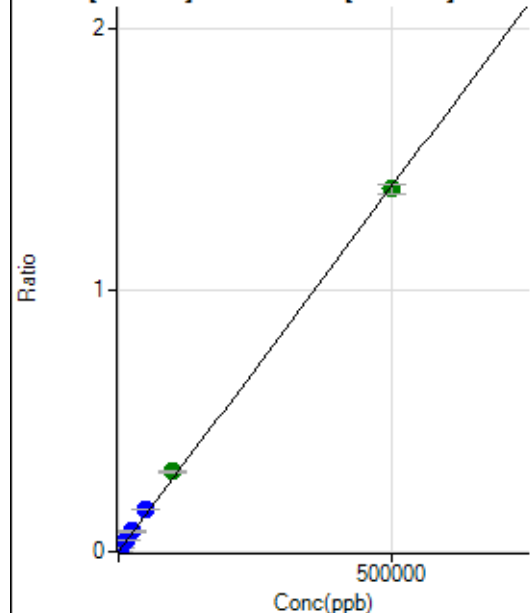
$$R = 1.0000$$

$$DL = 5.243$$

$$BEC = 419.5$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	116.67	0.0000	P	28.9
2	☐	500.000	502.956	9200.28	0.0014	P	3.2
3	☐	5000.000	5913.422	108868.05	0.0165	P	0.8
4	☐	12500.000	14925.680	272020.82	0.0417	P	2.7
5	☐	25000.000	27920.457	531726.84	0.0781	P	7.0
6	☐	50000.000	57589.985	1038118.24	0.1610	P	3.1
7	☐	100000.00	110413.03	2013206.77	0.3086	A	2.2
8	☐	500000.00	496942.59	8879354.36	1.3890	A	2.7

$$y = 2.7951E-006 * x + 1.7213E-005$$

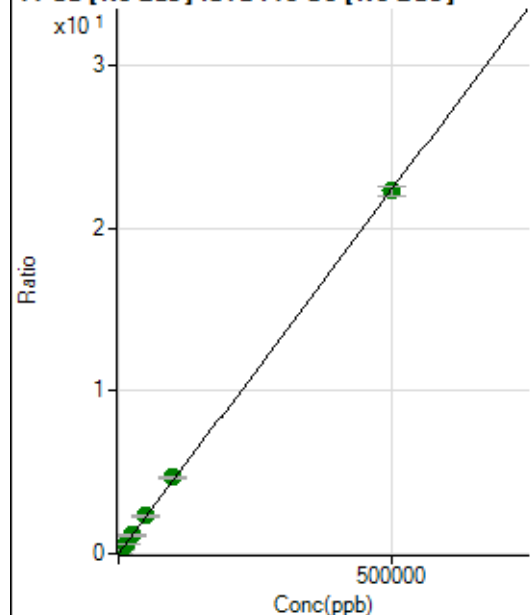
$$R = 0.9997$$

$$DL = 5.336$$

$$BEC = 6.158$$

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	11459.82	0.0017	P	2.2
2	☐	500.000	514.264	159375.52	0.0246	P	1.1
3	☐	5000.000	5355.253	1584272.51	0.2408	A	0.2
4	☐	12500.000	13453.060	3926224.35	0.6023	A	1.1
5	☐	25000.000	25147.342	7659593.87	1.1245	A	7.1
6	☐	50000.000	52034.977	14992916.31	2.3250	A	2.2
7	☐	100000.00	104454.73	30431645.34	4.6654	A	1.8
8	☐	500000.00	498870.79	142389233.8	22.2755	A	3.0

$$y = 4.4648E-005 * x + 0.0017$$

$$R = 1.0000$$

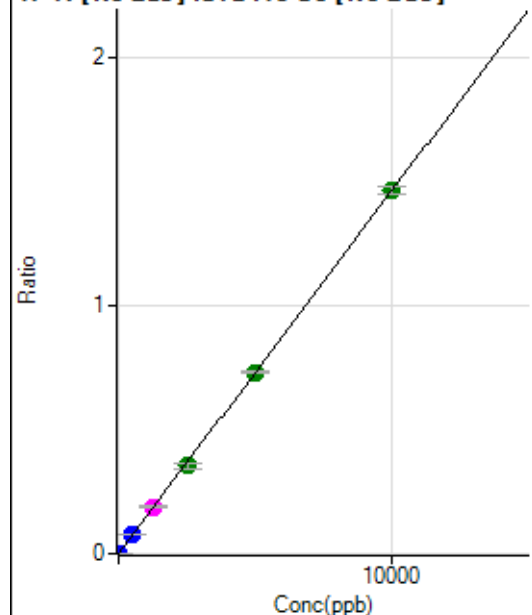
$$DL = 2.548$$

$$BEC = 37.82$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	161.12	0.0000	P	27.0
2	☐	5.000	4.500	4400.75	0.0007	P	4.4
3	☐	500.000	522.968	502413.27	0.0764	P	1.1
4	☐	1250.000	1296.339	1233268.61	0.1892	M	1.7
5	☐	2500.000	2436.284	2422438.27	0.3556	A	6.8
6	☐	5000.000	4999.736	4705891.99	0.7297	A	1.5
7	☐	10000.000	10009.120	9529489.62	1.4609	A	2.1
8	☐			2089.09	0.0003	P	8.2

$$y = 1.4595E-004 * x + 2.3780E-005$$

$$R = 1.0000$$

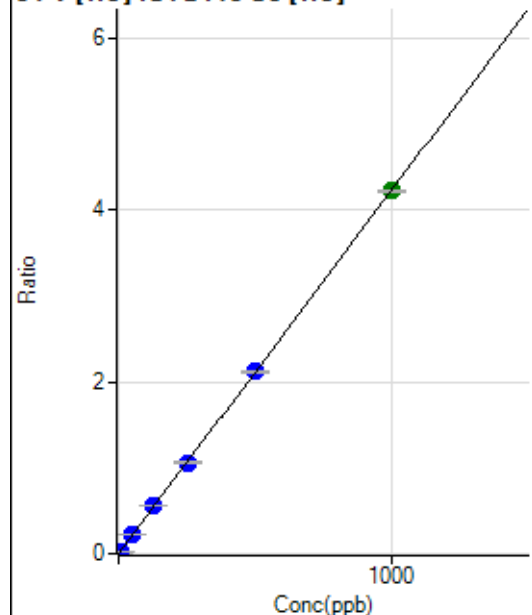
$$DL = 0.1319$$

$$BEC = 0.1629$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	24.7
2	☐	5.000	4.991	11359.92	0.0211	P	2.8
3	☐	50.000	51.825	119680.23	0.2190	P	0.2
4	☐	125.000	130.686	295204.36	0.5521	P	0.3
5	☐	250.000	250.639	583165.11	1.0589	P	2.2
6	☐	500.000	500.762	1143799.44	2.1156	P	0.8
7	☐	1000.000	998.657	2257013.58	4.2190	A	0.4
8	☐			938.93	0.0018	P	2.1

$$y = 0.0042 * x + 2.3941E-005$$

$$R = 1.0000$$

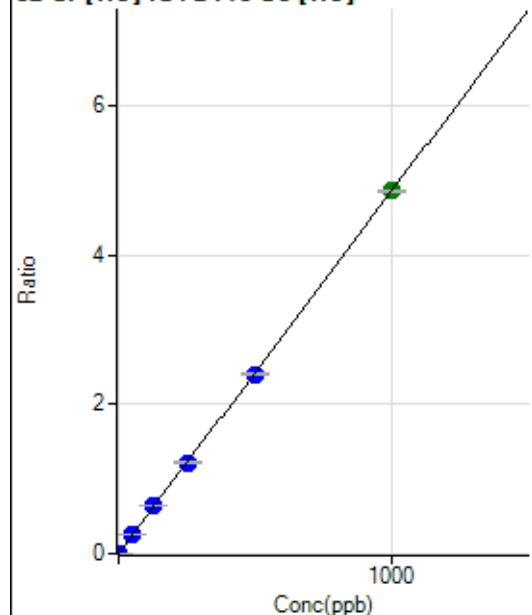
$$DL = 0.004208$$

$$BEC = 0.005667$$

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	813.36	0.0015	P	4.4
2	☐	2.000	1.999	6003.47	0.0112	P	2.2
3	☐	50.000	53.376	142278.36	0.2603	P	0.3
4	☐	125.000	131.279	341178.79	0.6381	P	0.4
5	☐	250.000	250.204	669105.06	1.2149	P	2.1
6	☐	500.000	495.851	1301011.51	2.4062	P	0.7
7	☐	1000.000	1001.070	2597943.05	4.8563	A	0.4
8	☐			21498.75	0.0413	P	0.7

$$y = 0.0048 * x + 0.0015$$

$$R = 1.0000$$

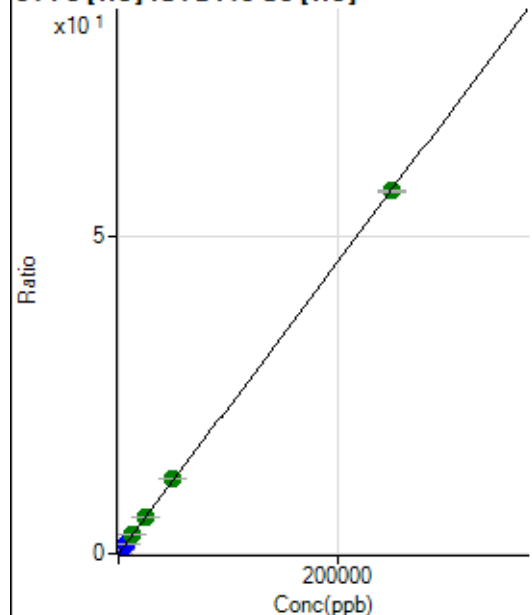
$$DL = 0.04002$$

$$BEC = 0.3013$$

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	1868.71	0.0034	P	1.6
2	☐	50.000	56.369	8778.30	0.0163	P	5.5
3	☐	2500.000	2864.725	361711.91	0.6618	P	0.3
4	☐	6250.000	7137.651	878939.03	1.6439	P	0.4
5	☐	12500.000	13029.261	1651260.41	2.9980	A	1.1
6	☐	25000.000	25689.286	3194349.18	5.9079	A	0.5
7	☐	50000.000	51992.892	6394556.21	11.9536	A	0.3
8	☐	250000.00	249480.19	29850488.60	57.3447	A	0.6

$$y = 2.2984E-004 * x + 0.0034$$

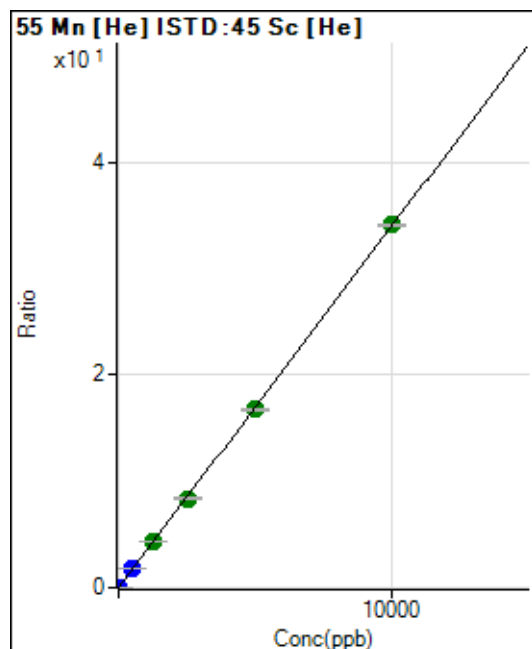
$$R = 1.0000$$

$$DL = 0.7031$$

$$BEC = 14.61$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	185.56	0.0003	P	12.8
2	☐	1.000	1.066	2131.28	0.0040	P	1.4
3	☐	500.000	529.549	984333.58	1.8010	P	0.6
4	☐	1250.000	1294.999	2354510.80	4.4037	A	0.3
5	☐	2500.000	2459.168	4605733.30	8.3623	A	1.3
6	☐	5000.000	4925.795	9055773.06	16.7495	A	0.8
7	☐	10000.000	10040.208	18263638.75	34.1401	A	0.5
8	☐			24183.96	0.0465	P	1.1

$$y = 0.0034 * x + 3.3355E-004$$

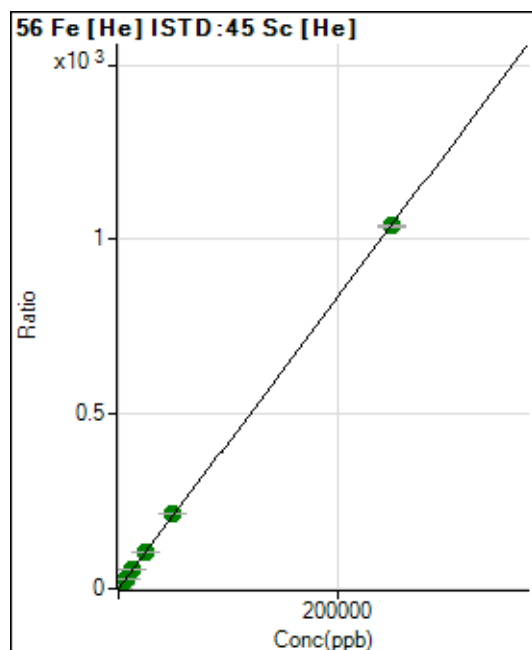
$$R = 0.9999$$

$$DL = 0.03765$$

$$BEC = 0.09809$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	11791.82	0.0212	P	1.6
2	☐	50.000	52.818	129767.63	0.2411	P	2.5
3	☐	2500.000	2685.071	6122628.90	11.2019	A	0.8
4	☐	6250.000	6797.063	15144596.98	28.3244	A	1.0
5	☐	12500.000	12933.848	29675038.63	53.8783	A	1.1
6	☐	25000.000	25620.854	57691362.40	106.7075	A	1.0
7	☐	50000.000	51716.565	115215331.2	215.3712	A	0.4
8	☐	250000.00	249557.38	540944886.1	1,039.188	A	0.5

$$y = 0.0042 * x + 0.0212$$

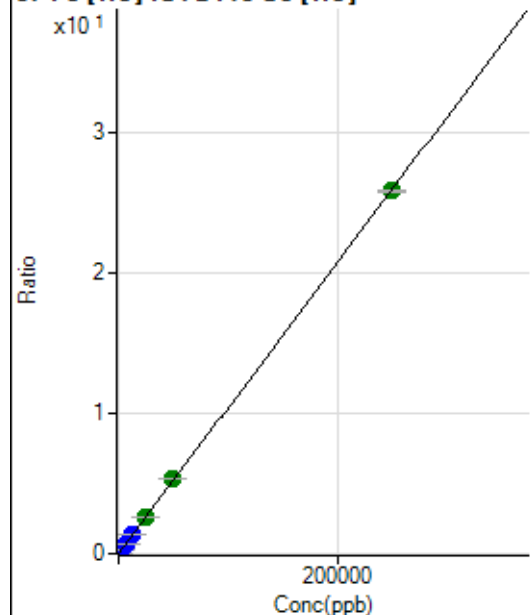
$$R = 1.0000$$

$$DL = 0.246$$

$$BEC = 5.087$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1213.04	0.0022	P	5.3
2	☐	50.000	52.639	4109.89	0.0076	P	3.8
3	☐	2500.000	2790.960	159371.05	0.2916	P	0.6
4	☐	6250.000	6932.572	385520.24	0.7211	P	0.5
5	☐	12500.000	13322.734	762170.31	1.3837	P	1.0
6	☐	25000.000	25443.235	1427646.02	2.6405	A	0.7
7	☐	50000.000	51487.798	2857271.56	5.3412	A	0.4
8	☐	250000.00	249597.00	13473950.07	25.8843	A	0.3

$$y = 1.0370\text{E-}004 * x + 0.0022$$

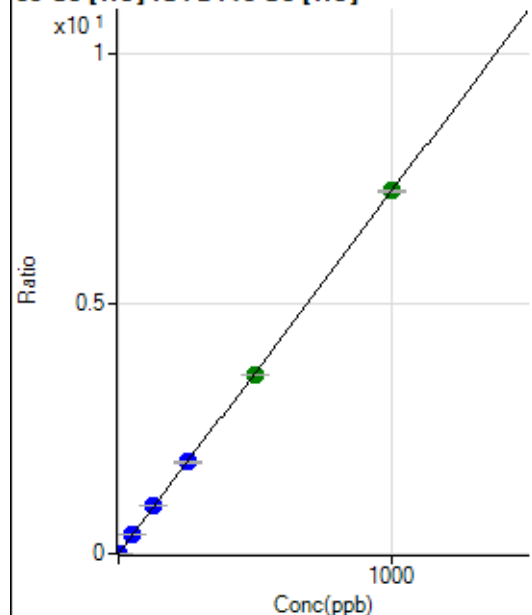
$$R = 1.0000$$

$$DL = 3.359$$

$$BEC = 21.01$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	82.22	0.0001	P	18.7
2	☐	1.000	1.033	4115.05	0.0076	P	3.4
3	☐	50.000	52.566	208586.96	0.3816	P	0.8
4	☐	125.000	132.714	515045.54	0.9633	P	0.5
5	☐	250.000	252.116	1007927.69	1.8298	P	1.4
6	☐	500.000	494.227	1939376.66	3.5869	A	0.7
7	☐	1000.000	1001.265	3887219.81	7.2667	A	0.9
8	☐			4175.07	0.0080	P	1.0

$$y = 0.0073 * x + 1.4764\text{E-}004$$

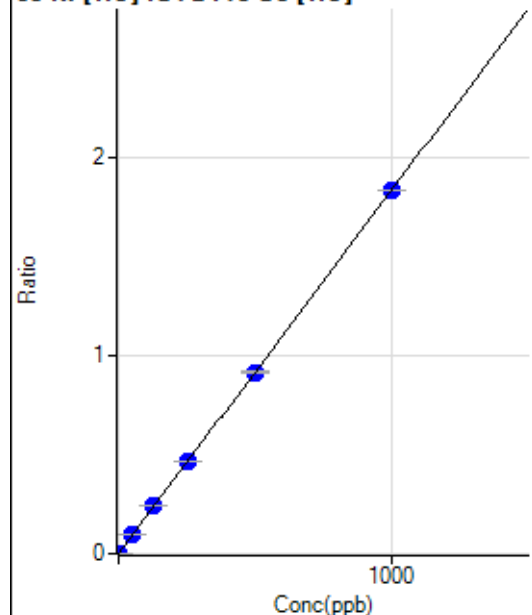
$$R = 0.9999$$

$$DL = 0.01139$$

$$BEC = 0.02034$$

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	362.23	0.0007	P	11.2
2	☐	1.000	0.997	1332.29	0.0025	P	2.9
3	☐	50.000	53.839	54219.68	0.0992	P	0.4
4	☐	125.000	134.071	131561.99	0.2461	P	0.2
5	☐	250.000	253.206	255673.07	0.4641	P	0.9
6	☐	500.000	498.815	494016.59	0.9137	P	0.6
7	☐	1000.000	998.465	978066.45	1.8283	P	0.1
8	☐			5434.37	0.0104	P	1.8

$$y = 0.0018 * x + 6.5073E-004$$

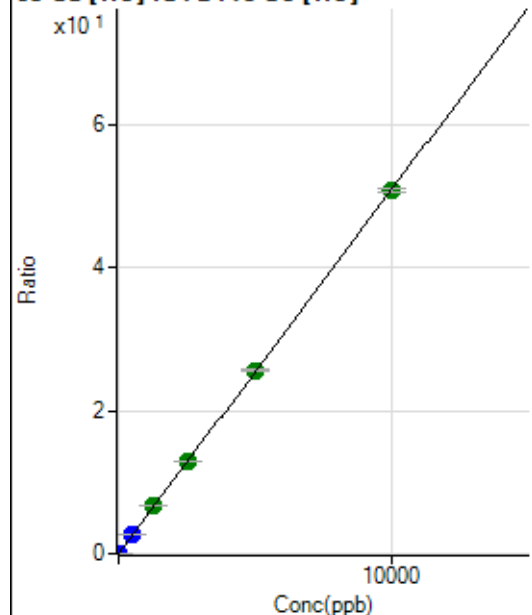
$$R = 1.0000$$

$$DL = 0.1197$$

$$BEC = 0.3555$$

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	1128.94	0.0020	P	9.0
2	☐	2.000	2.066	6742.68	0.0125	P	3.8
3	☐	500.000	525.414	1460848.03	2.6728	P	0.5
4	☐	1250.000	1337.865	3637178.66	6.8026	A	1.0
5	☐	2500.000	2523.278	7066082.33	12.8283	A	1.1
6	☐	5000.000	5027.333	13818265.63	25.5568	A	1.0
7	☐	10000.000	9968.260	27106295.43	50.6724	A	1.1
8	☐			10345.87	0.0199	P	1.3

$$y = 0.0051 * x + 0.0020$$

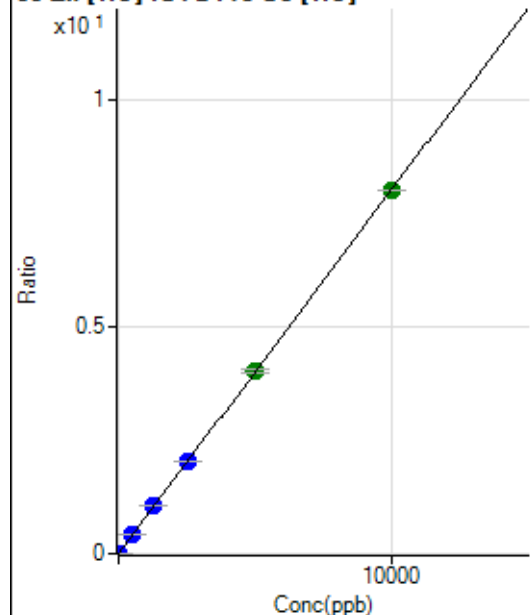
$$R = 1.0000$$

$$DL = 0.1076$$

$$BEC = 0.3992$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	962.26	0.0017	P	5.6
2	☐	2.000	2.251	1900.14	0.0035	P	4.0
3	☐	500.000	527.424	231644.32	0.4238	P	0.9
4	☐	1250.000	1321.581	566419.60	1.0594	P	0.4
5	☐	2500.000	2523.808	1113532.43	2.0215	P	0.8
6	☐	5000.000	5024.547	2174917.99	4.0229	A	1.5
7	☐	10000.000	9971.456	4269912.30	7.9819	A	0.1
8	☐			7515.30	0.0144	P	2.1

$$y = 8.0030\text{E-}004 * x + 0.0017$$

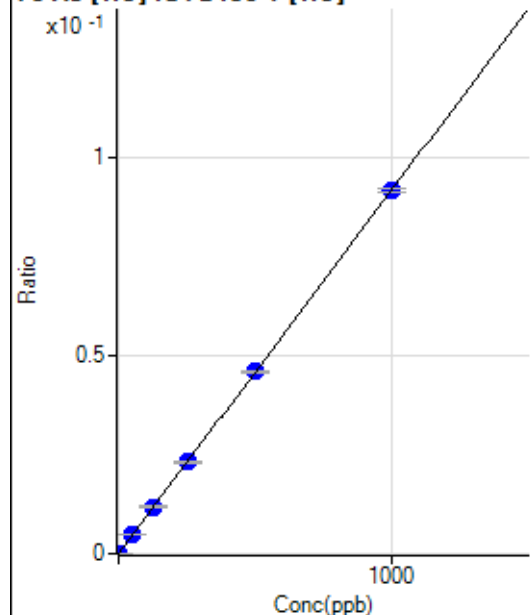
$$R = 1.0000$$

$$DL = 0.3634$$

$$BEC = 2.16$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4.94	0.0000	P	57.5
2	☐	1.000	0.955	320.37	0.0001	P	7.5
3	☐	50.000	52.247	17104.91	0.0048	P	2.0
4	☐	125.000	129.033	42376.74	0.0118	P	2.2
5	☐	250.000	251.677	83807.86	0.0231	P	0.8
6	☐	500.000	500.791	164712.45	0.0459	P	1.6
7	☐	1000.000	998.569	331034.64	0.0915	P	1.0
8	☐			196.30	0.0001	P	7.7

$$y = 9.1604\text{E-}005 * x + 1.3258\text{E-}006$$

$$R = 1.0000$$

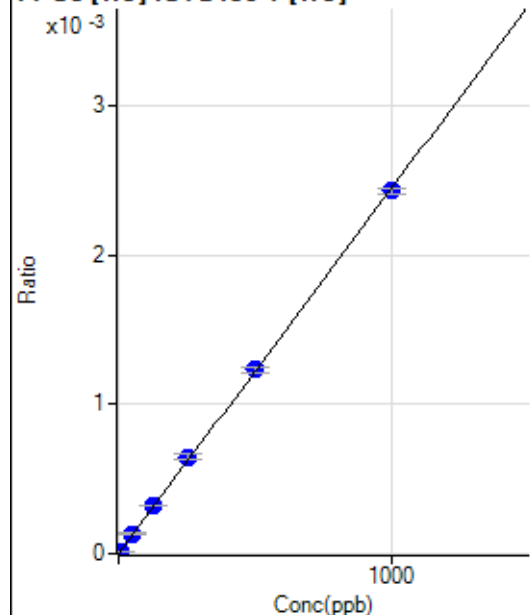
$$DL = 0.02496$$

$$BEC = 0.01447$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.672	58.89	0.0000	P	25.1
3	☐	50.000	54.552	476.68	0.0001	P	7.4
4	☐	125.000	130.574	1144.50	0.0003	P	1.6
5	☐	250.000	265.114	2353.54	0.0006	P	6.6
6	☐	500.000	503.830	4422.93	0.0012	P	2.7
7	☐	1000.000	993.374	8788.23	0.0024	P	1.9
8	☐			5.55	0.0000	P	124.

$$y = 2.4446\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

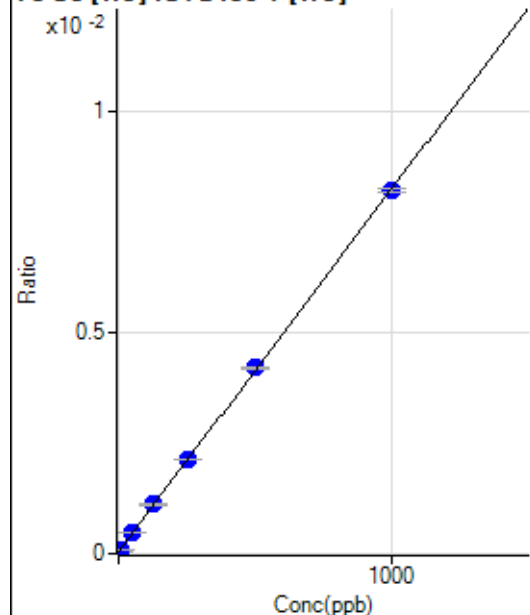
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.84	0.0000	P	7.9
2	☐	5.000	5.764	337.66	0.0001	P	7.8
3	☐	50.000	53.705	1740.23	0.0005	P	3.6
4	☐	125.000	130.613	4007.97	0.0011	P	2.5
5	☐	250.000	252.842	7708.21	0.0021	P	0.7
6	☐	500.000	506.347	15083.01	0.0042	P	1.6
7	☐	1000.000	995.225	29714.24	0.0082	P	0.9
8	☐			198.15	0.0001	P	6.9

$$y = 8.2037\text{E-}006 * x + 4.6315\text{E-}005$$

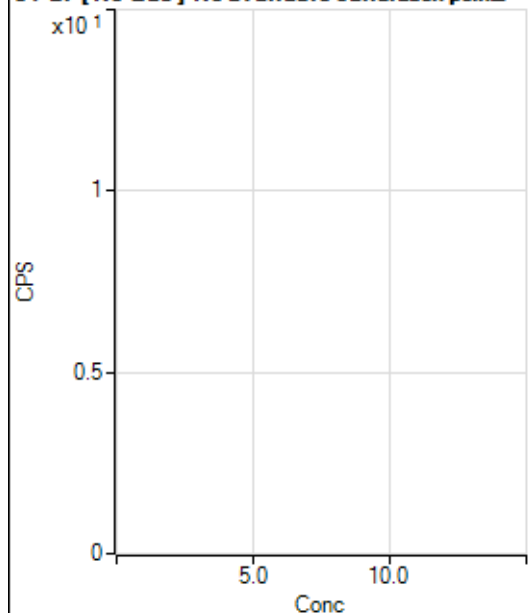
$$R = 1.0000$$

$$DL = 1.345$$

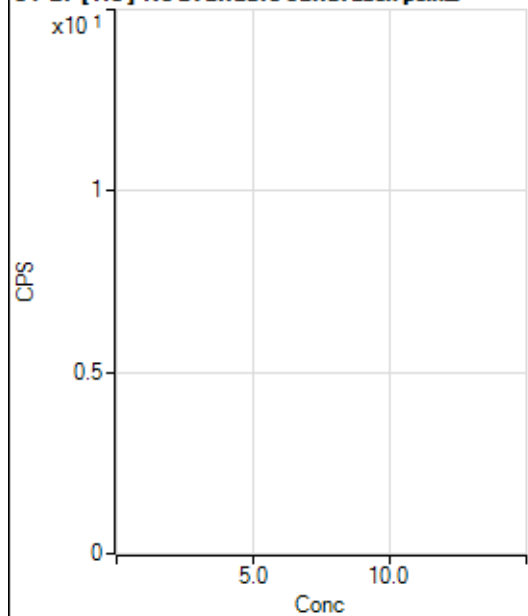
$$BEC = 5.646$$

Weight: <None>

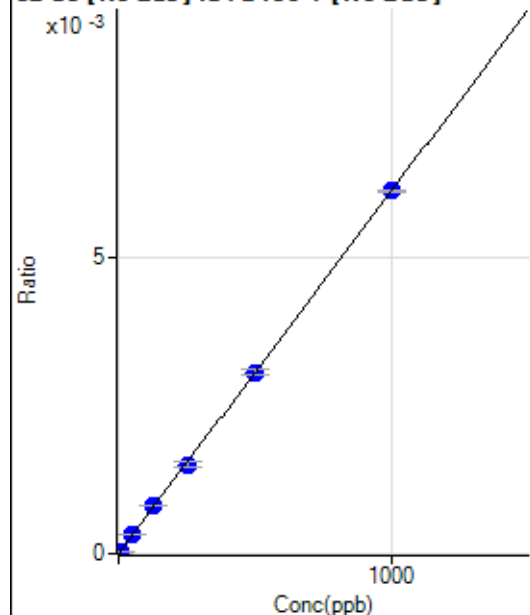
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			12508.40		P	1.3
2	☐			12419.39		P	0.9
3	☐			12455.58		P	1.6
4	☐			12347.15		P	1.8
5	☐			12516.70		P	1.8
6	☐			12555.65		P	3.5
7	☐			12714.13		P	1.8
8	☐			12633.50		P	1.7

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			23.36		P	24.7
2	☐			40.04		P	66.1
3	☐			26.69		P	57.3
4	☐			30.03		P	33.3
5	☐			83.42		P	18.3
6	☐			40.04		P	43.3
7	☐			46.71		P	49.5
8	☐			40.04		P	43.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	26.79	0.0000	P	150.
2	☐	5.000	4.993	493.84	0.0000	P	7.0
3	☐	50.000	53.015	5121.22	0.0003	P	2.7
4	☐	125.000	132.745	12667.42	0.0008	P	0.9
5	☐	250.000	245.070	24844.07	0.0015	P	6.4
6	☐	500.000	500.326	48486.55	0.0031	P	3.7
7	☐	1000.000	999.950	97319.57	0.0061	P	0.3
8	☐			111.40	0.0000	P	23.0

$$y = 6.1292\text{E-}006 * x + 1.6784\text{E-}006$$

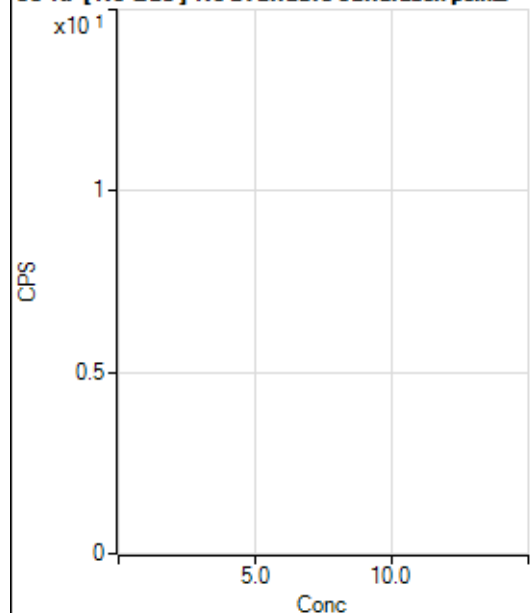
$$R = 0.9999$$

$$DL = 1.238$$

$$BEC = 0.2738$$

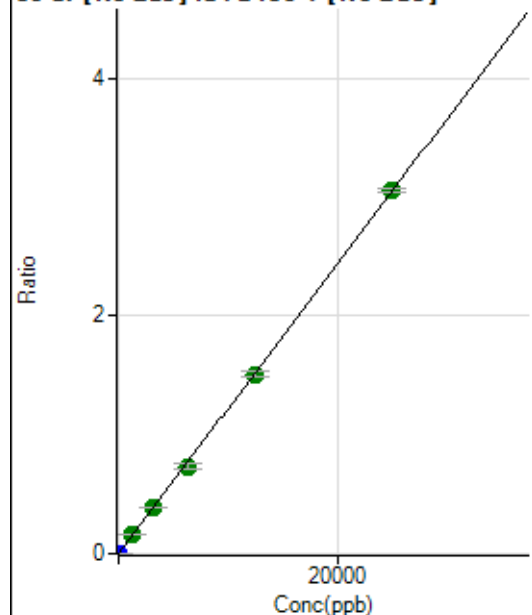
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			230.00		P	22.5
2	☐			233.34		P	9.4
3	☐			226.67		P	14.0
4	☐			215.56		P	24.9
5	☐			235.56		P	5.4
6	☐			200.00		P	13.0
7	☐			232.23		P	10.9
8	☐			232.23		P	9.2

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	347.24	0.0000	P	26.2
2	☐	1.000	1.004	2197.45	0.0001	P	8.3
3	☐	1250.000	1304.745	2489711.69	0.1588	A	1.0
4	☐	3125.000	3241.184	6128353.65	0.3944	A	0.7
5	☐	6250.000	6030.335	12126727.01	0.7339	A	5.4
6	☐	12500.000	12405.783	23859002.79	1.5097	A	3.2
7	☐	25000.000	25084.765	48462439.63	3.0526	A	1.2
8	☐			14741.03	0.0010	P	1.3

$$y = 1.2169\text{E-}004 * x + 2.1612\text{E-}005$$

R = 0.9999

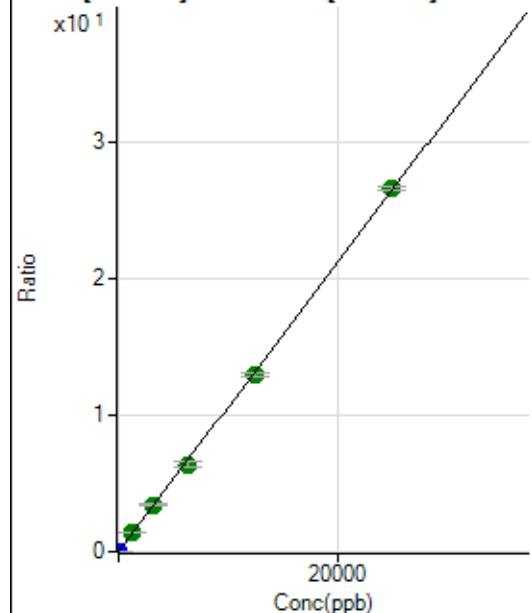
DL = 0.1394

BEC = 0.1776

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	205.56	0.0000	P	4.7
2	☐	1.000	0.976	15970.23	0.0010	P	1.7
3	☐	1250.000	1302.791	21576660.38	1.3762	A	1.6
4	☐	3125.000	3246.673	53286378.97	3.4296	A	1.3
5	☐	6250.000	6052.144	105628191.9	6.3931	A	6.3
6	☐	12500.000	12283.448	205064693.4	12.9754	A	2.4
7	☐	25000.000	25139.892	421577534.4	26.5560	A	0.9
8	☐			122160.93	0.0080	P	0.7

$$y = 0.0011 * x + 1.2779\text{E-}005$$

R = 0.9999

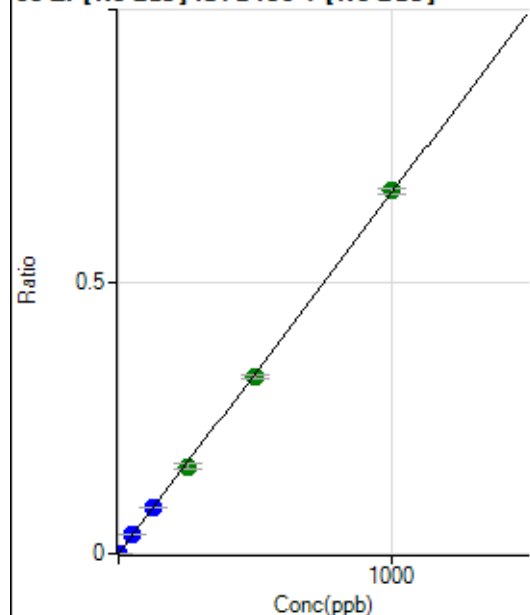
DL = 0.001712

BEC = 0.0121

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	630.59	0.0000	P	6.8
2	☐	1.000	0.960	10331.71	0.0007	P	3.9
3	☐	50.000	51.357	534253.23	0.0341	P	1.5
4	☐	125.000	129.091	1329809.60	0.0856	P	1.0
5	☐	250.000	241.030	2639367.55	0.1598	A	7.0
6	☐	500.000	490.465	5137395.56	0.3251	A	3.0
7	☐	1000.000	1006.431	10589610.74	0.6670	A	1.2
8	☐			4975.98	0.0003	P	3.7

$$y = 6.6273\text{E-}004 * x + 3.9177\text{E-}005$$

$$R = 0.9999$$

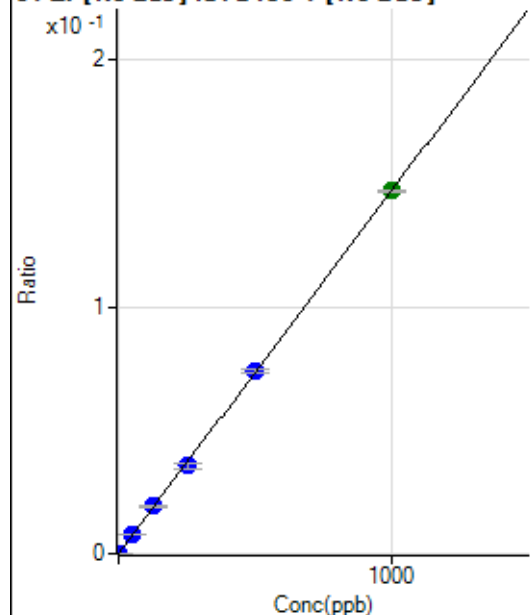
$$DL = 0.01208$$

$$BEC = 0.05911$$

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	111.11	0.0000	P	51.1
2	☐	1.000	0.998	2350.25	0.0002	P	0.8
3	☐	50.000	51.376	118464.90	0.0076	P	1.8
4	☐	125.000	130.169	297288.13	0.0191	P	1.0
5	☐	250.000	242.711	589322.85	0.0357	P	6.5
6	☐	500.000	502.351	1166674.70	0.0738	P	2.5
7	☐	1000.000	999.932	2332625.34	0.1469	A	0.7
8	☐			1086.19	0.0001	P	10.0

$$y = 1.4694\text{E-}004 * x + 6.9327\text{E-}006$$

$$R = 0.9999$$

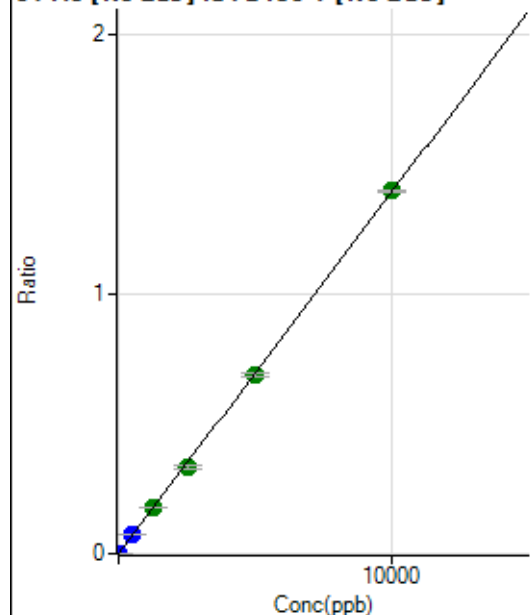
$$DL = 0.07237$$

$$BEC = 0.04718$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	163.89	0.0000	P	13.9
2	☐	5.000	5.315	11488.11	0.0008	P	2.0
3	☐	500.000	519.798	1136039.99	0.0725	P	1.0
4	☐	1250.000	1291.967	2797731.25	0.1801	A	0.0
5	☐	2500.000	2400.249	5527645.74	0.3345	A	6.1
6	☐	5000.000	4959.040	10923275.24	0.6912	A	2.6
7	☐	10000.000	10039.182	22213125.67	1.3992	A	0.7
8	☐			7557.67	0.0005	P	4.7

$$y = 1.3938\text{E-}004 * x + 1.0199\text{E-}005$$

$$R = 0.9999$$

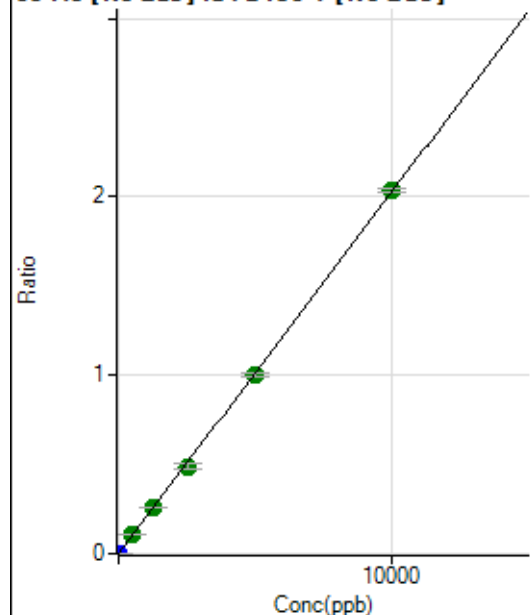
$$DL = 0.03057$$

$$BEC = 0.07317$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	55.55	0.0000	P	82.4
2	☐	5.000	4.609	14340.67	0.0009	P	1.2
3	☐	500.000	512.874	1629683.81	0.1039	A	0.8
4	☐	1250.000	1294.836	4076895.49	0.2624	A	0.2
5	☐	2500.000	2400.553	8036338.81	0.4865	A	7.2
6	☐	5000.000	4964.167	15900176.92	1.0061	A	2.0
7	☐	10000.000	10036.530	32290119.82	2.0340	A	1.1
8	☐			9447.76	0.0006	P	5.8

$$y = 2.0266\text{E-}004 * x + 3.4641\text{E-}006$$

$$R = 0.9999$$

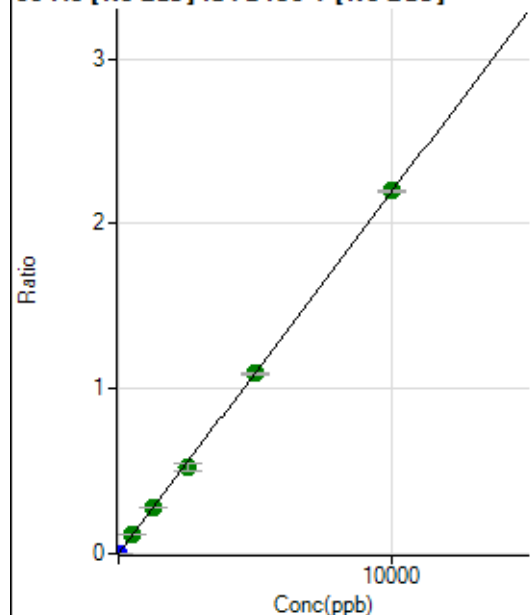
$$DL = 0.04225$$

$$BEC = 0.01709$$

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	69.45	0.0000	P	25.4
2	☐	5.000	4.669	15728.27	0.0010	P	1.5
3	☐	500.000	520.652	1790176.69	0.1142	A	1.2
4	☐	1250.000	1288.726	4390414.03	0.2826	A	0.7
5	☐	2500.000	2400.713	8695264.78	0.5265	A	7.7
6	☐	5000.000	4972.563	17233567.40	1.0904	A	2.1
7	☐	10000.000	10032.667	34926086.89	2.2001	A	0.7
8	☐			13167.39	0.0009	P	4.2

$$y = 2.1929\text{E-}004 * x + 4.3200\text{E-}006$$

$$R = 0.9999$$

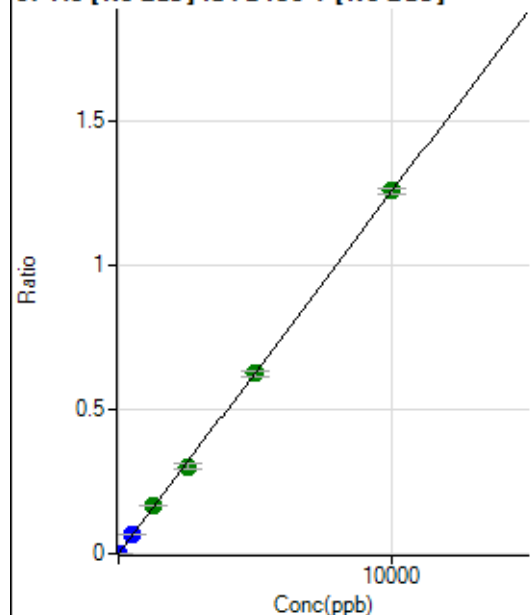
$$DL = 0.01504$$

$$BEC = 0.0197$$

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	25.00	0.0000	P	58.9
2	☐	5.000	4.570	8775.08	0.0006	P	2.3
3	☐	500.000	518.438	1017635.77	0.0649	P	1.4
4	☐	1250.000	1312.624	2552960.84	0.1643	A	0.3
5	☐	2500.000	2400.391	4964756.58	0.3005	A	6.4
6	☐	5000.000	4972.163	9837705.34	0.6225	A	2.5
7	☐	10000.000	10030.071	19934988.12	1.2557	A	1.4
8	☐			6065.29	0.0004	P	4.0

$$y = 1.2519\text{E-}004 * x + 1.5607\text{E-}006$$

$$R = 0.9999$$

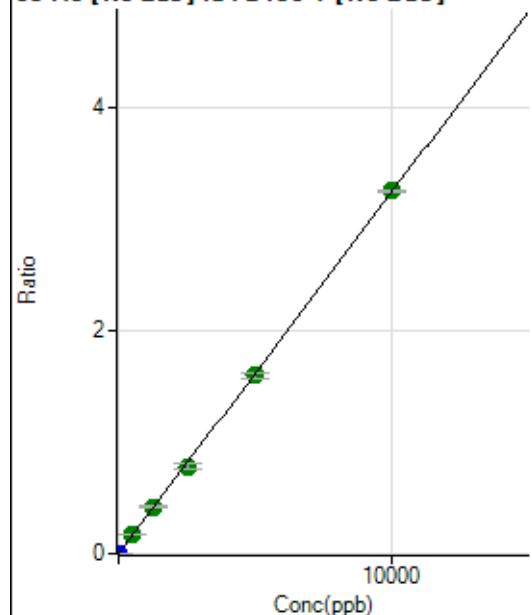
$$DL = 0.02203$$

$$BEC = 0.01247$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	61.11	0.0000	P	47.1
2	☐	5.000	4.555	22601.28	0.0015	P	2.3
3	☐	500.000	513.782	2605725.73	0.1662	A	1.6
4	☐	1250.000	1297.371	6519949.41	0.4197	A	1.3
5	☐	2500.000	2420.211	12934275.37	0.7828	A	6.3
6	☐	5000.000	4939.114	25247381.29	1.5976	A	3.4
7	☐	10000.000	10043.780	51573848.72	3.2488	A	0.5
8	☐			14796.75	0.0010	P	2.1

$$y = 3.2346\text{E-}004 * x + 3.7919\text{E-}006$$

$$R = 0.9999$$

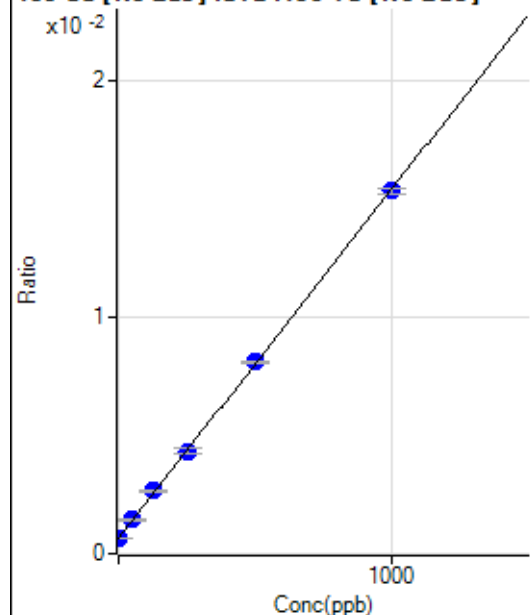
$$DL = 0.01656$$

$$BEC = 0.01172$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7179.72	0.0007	P	0.8
2	☐	1.000	-0.751	6718.41	0.0006	P	2.0
3	☐	50.000	52.681	15294.57	0.0014	P	4.0
4	☐	125.000	135.437	28264.10	0.0027	P	1.6
5	☐	250.000	250.233	49055.65	0.0044	P	6.5
6	☐	500.000	505.654	88355.25	0.0081	P	1.3
7	☐	1000.000	995.678	168000.81	0.0154	P	1.5
8	☐			6957.40	0.0007	P	3.3

$$y = 1.4768\text{E-}005 * x + 6.5785\text{E-}004$$

$$R = 0.9999$$

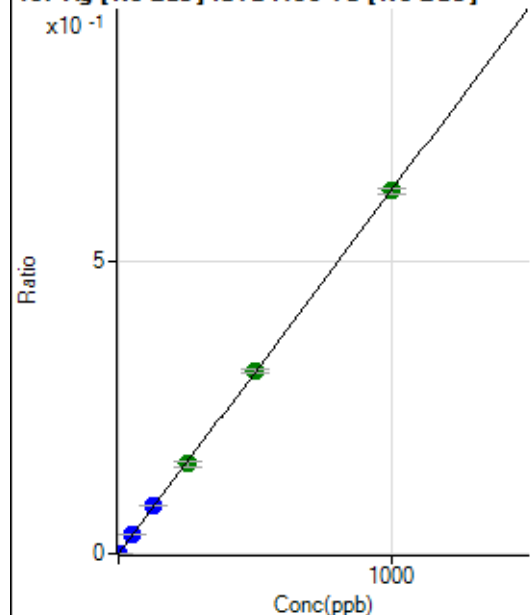
$$DL = 1.074$$

$$BEC = 44.55$$

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	116.67	0.0000	P	18.9
2	☐	1.000	0.787	5214.97	0.0005	P	17.9
3	☐	50.000	52.182	346833.04	0.0325	P	2.8
4	☐	125.000	132.380	877813.88	0.0825	P	1.2
5	☐	250.000	247.118	1736015.66	0.1541	A	7.6
6	☐	500.000	502.940	3409959.10	0.3136	A	1.4
7	☐	1000.000	998.219	6806296.59	0.6224	A	1.9
8	☐			3531.08	0.0003	P	5.5

$$y = 6.2350E-004 * x + 1.0690E-005$$

$$R = 1.0000$$

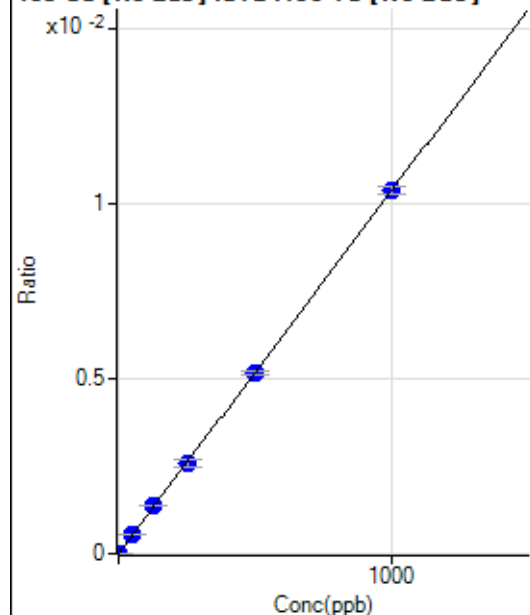
$$DL = 0.009705$$

$$BEC = 0.01714$$

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	19.44	0.0000	P	32.5
2	☐	1.000	0.849	109.72	0.0000	P	11.8
3	☐	50.000	53.645	5934.62	0.0006	P	4.4
4	☐	125.000	133.084	14663.09	0.0014	P	2.5
5	☐	250.000	248.835	29029.19	0.0026	P	8.4
6	☐	500.000	498.435	56115.15	0.0052	P	2.1
7	☐	1000.000	999.881	113192.60	0.0104	P	2.1
8	☐			84.72	0.0000	P	30.4

$$y = 1.0350E-005 * x + 1.7803E-006$$

$$R = 1.0000$$

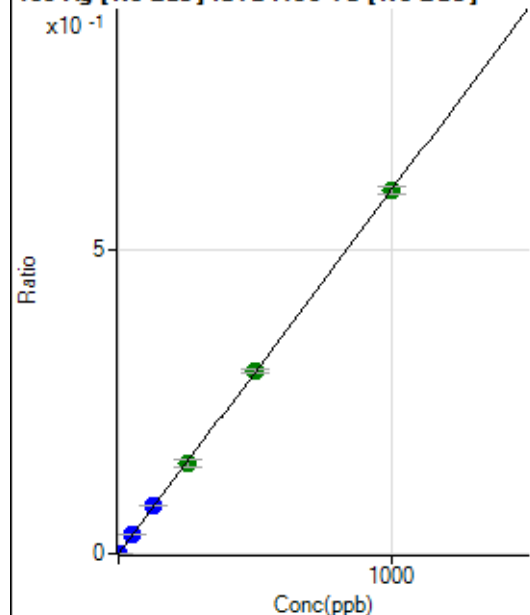
$$DL = 0.1676$$

$$BEC = 0.172$$

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	33.33	0.0000	P	50.3
2	☐	1.000	0.765	4795.37	0.0005	P	15.8
3	☐	50.000	52.570	335604.81	0.0315	P	3.9
4	☐	125.000	132.710	845388.99	0.0795	P	1.5
5	☐	250.000	248.545	1677562.15	0.1489	A	6.6
6	☐	500.000	502.635	3273634.10	0.3011	A	2.5
7	☐	1000.000	997.954	6537282.44	0.5977	A	2.0
8	☐			3442.17	0.0003	P	8.5

$$y = 5.9896\text{E-}004 * x + 3.0574\text{E-}006$$

$$R = 1.0000$$

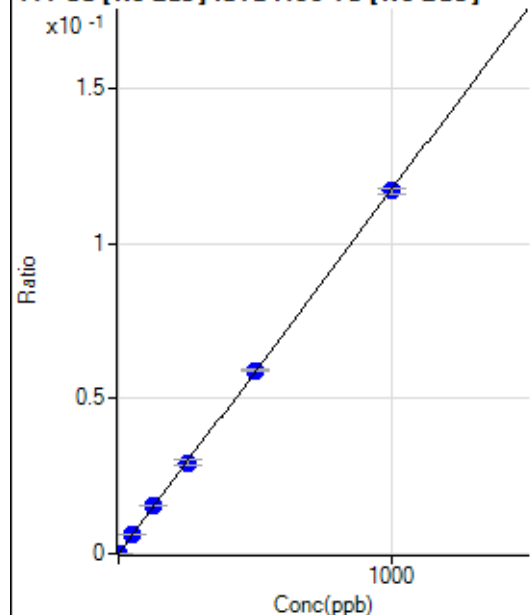
$$DL = 0.007699$$

$$BEC = 0.005104$$

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	714.08	0.0001	P	1.8
2	☐	1.000	1.054	1963.18	0.0002	P	0.9
3	☐	50.000	53.504	67510.95	0.0063	P	1.5
4	☐	125.000	133.108	166570.19	0.0157	P	1.4
5	☐	250.000	249.773	330610.94	0.0293	P	6.4
6	☐	500.000	503.709	642652.84	0.0591	P	1.7
7	☐	1000.000	997.013	1278467.83	0.1169	P	1.4
8	☐			1204.51	0.0001	P	2.9

$$y = 1.1720\text{E-}004 * x + 6.5430\text{E-}005$$

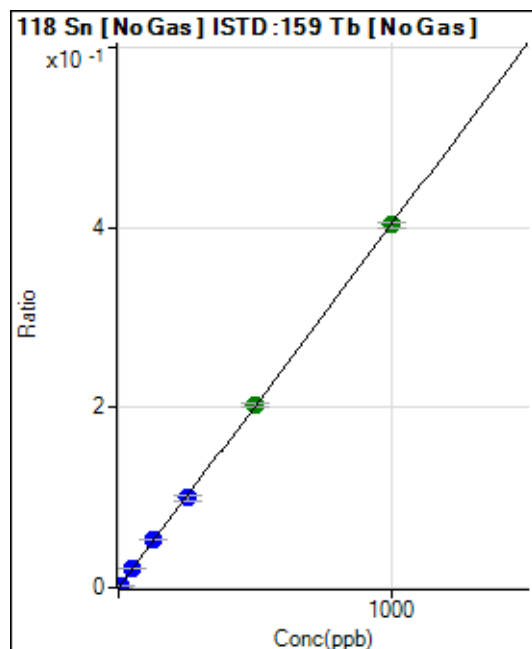
$$R = 1.0000$$

$$DL = 0.02946$$

$$BEC = 0.5583$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	891.72	0.0001	P	12.9
2	☐	5.000	5.224	22757.45	0.0022	P	1.4
3	☐	50.000	52.519	226801.43	0.0213	P	1.3
4	☐	125.000	131.786	566650.21	0.0533	P	0.4
5	☐	250.000	246.252	1121325.21	0.0995	P	6.2
6	☐	500.000	503.862	2212960.82	0.2035	A	2.0
7	☐	1000.000	998.031	4407109.65	0.4030	A	1.8
8	☐			8786.23	0.0008	P	3.3

$$y = 4.0373\text{E-}004 * x + 8.1701\text{E-}005$$

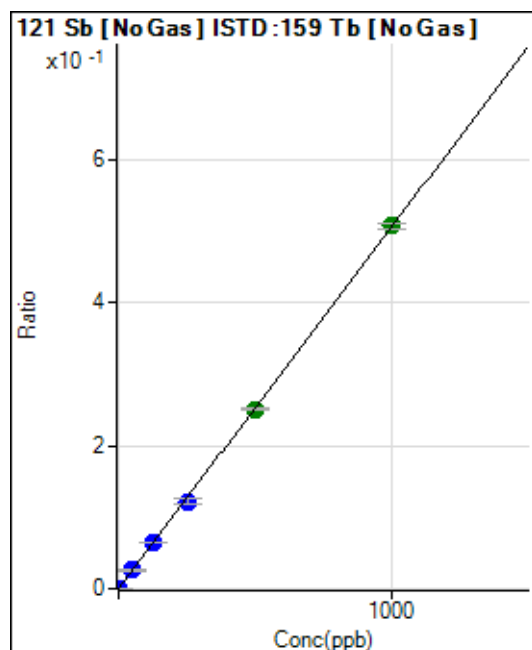
$$R = 1.0000$$

$$DL = 0.0785$$

$$BEC = 0.2024$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	50.00	0.0000	P	0.3
2	☐	2.000	1.888	9959.28	0.0010	P	0.7
3	☐	50.000	50.569	272432.81	0.0256	P	1.5
4	☐	125.000	127.769	686901.83	0.0646	P	1.1
5	☐	250.000	240.499	1369976.43	0.1216	P	6.6
6	☐	500.000	497.029	2731891.32	0.2513	A	0.7
7	☐	1000.000	1003.487	5547012.32	0.5073	A	1.2
8	☐			7199.19	0.0007	P	5.3

$$y = 5.0550\text{E-}004 * x + 4.5813\text{E-}006$$

$$R = 0.9999$$

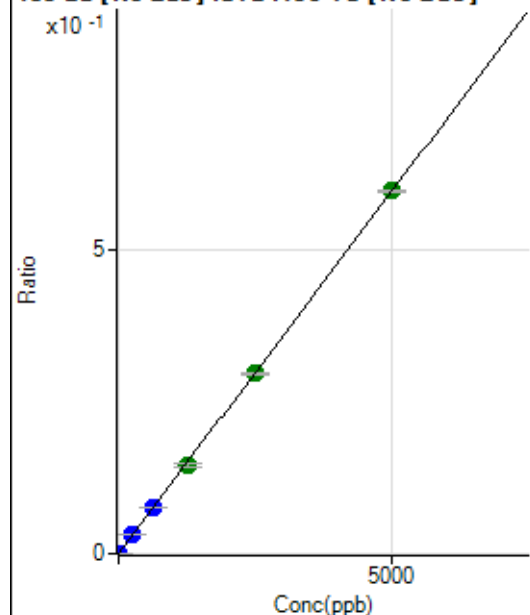
$$DL = 8.698\text{E-}05$$

$$BEC = 0.009063$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	50.7
2	☐	10.000	9.442	11710.69	0.0011	P	3.1
3	☐	250.000	254.443	322397.77	0.0303	P	0.9
4	☐	625.000	640.942	810431.64	0.0762	P	0.3
5	☐	1250.000	1219.486	1634352.90	0.1450	A	5.5
6	☐	2500.000	2488.546	3217407.54	0.2959	A	1.1
7	☐	5000.000	5011.142	6515588.25	0.5958	A	0.4
8	☐			2622.54	0.0003	P	7.2

$$y = 1.1890\text{E-}004 * x + 4.8356\text{E-}006$$

$$R = 1.0000$$

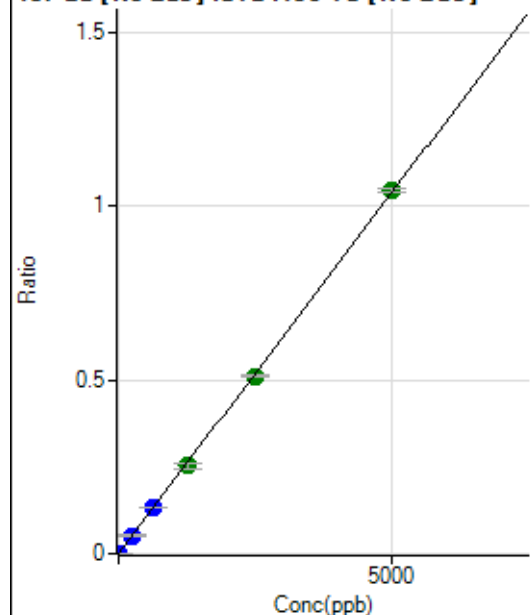
$$DL = 0.06185$$

$$BEC = 0.04067$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	80.56	0.0000	P	42.1
2	☐	10.000	9.485	20551.44	0.0020	P	1.3
3	☐	250.000	251.949	557987.34	0.0524	P	2.0
4	☐	625.000	637.047	1407903.33	0.1324	P	0.8
5	☐	1250.000	1213.701	2841758.55	0.2522	A	7.3
6	☐	2500.000	2461.242	5561958.15	0.5115	A	1.8
7	☐	5000.000	5026.852	11423358.85	1.0446	A	0.9
8	☐			4948.21	0.0005	P	2.1

$$y = 2.0781\text{E-}004 * x + 7.3862\text{E-}006$$

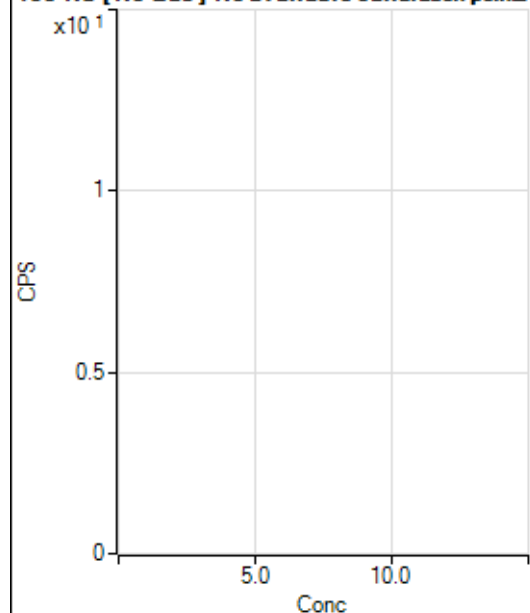
$$R = 0.9999$$

$$DL = 0.04489$$

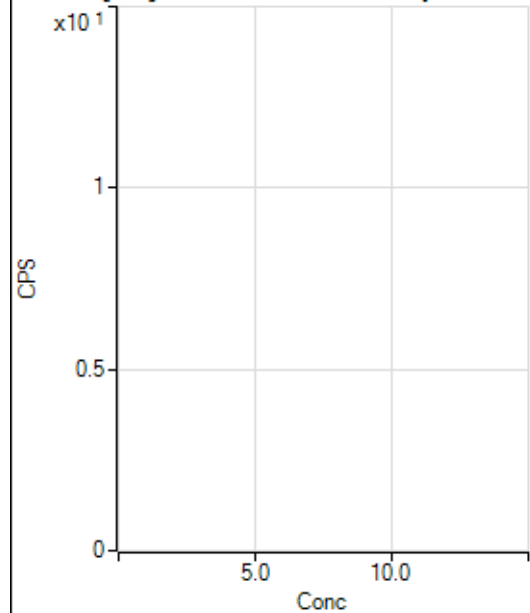
$$BEC = 0.03554$$

Weight: <None>

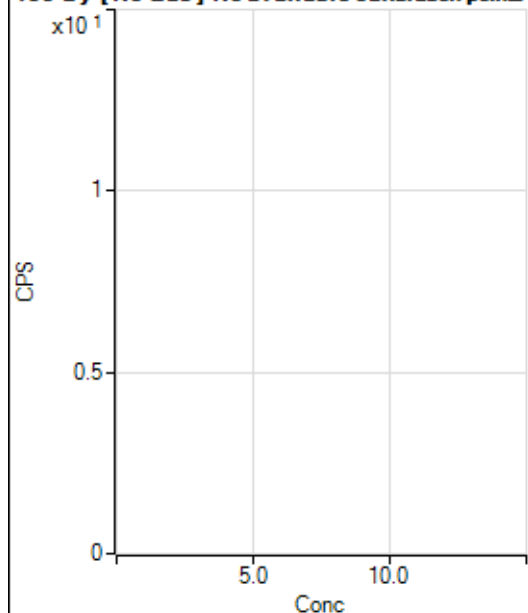
Min Conc: 0

150 Nd [No Gas] No available calibration points

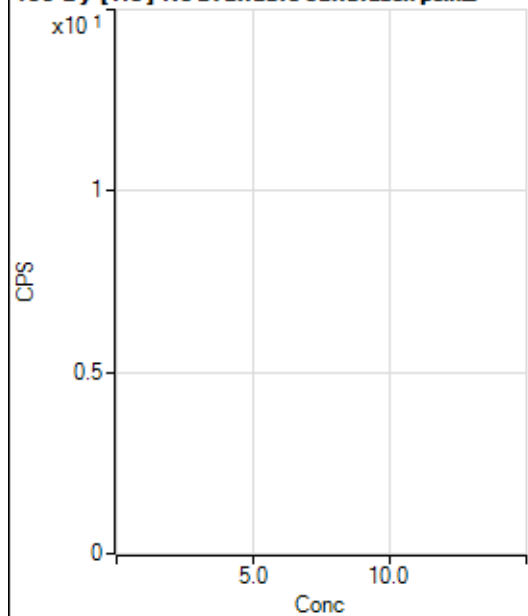
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			8.89		P	114.
2	☐			4.44		P	173.
3	☐			48.89		P	56.8
4	☐			100.00		P	6.7
5	☐			193.34		P	12.4
6	☐			393.35		P	9.4
7	☐			804.49		P	5.9
8	☐			62.22		P	24.7

150 Nd [He] No available calibration points

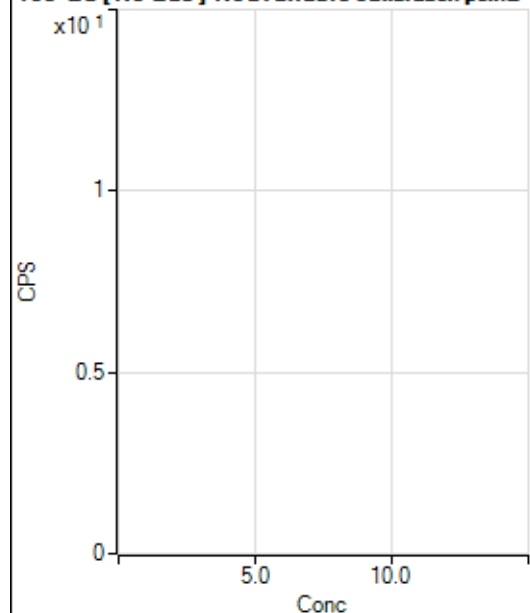
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			12.22		P	56.8
4	☐			22.22		P	56.8
5	☐			40.00		P	16.7
6	☐			55.56		P	33.0
7	☐			133.34		P	22.2
8	☐			30.00		P	44.4

156 Dy [No Gas] No available calibration points

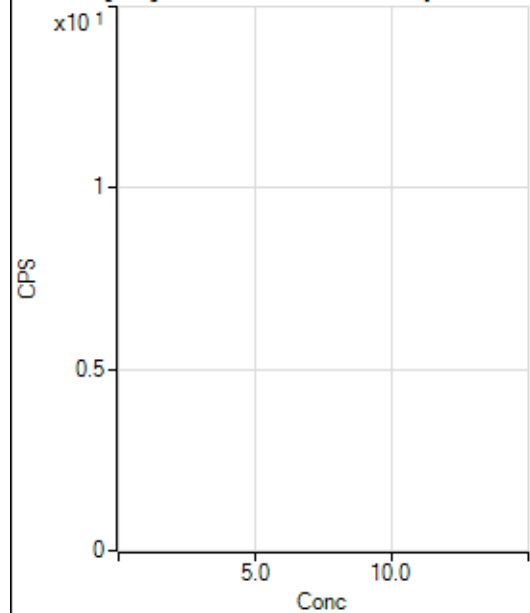
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			16.67		P	50.0
2	☐			16.66		P	86.6
3	☐			19.45		P	24.7
4	☐			75.00		P	40.1
5	☐			86.11		P	36.6
6	☐			169.45		P	2.8
7	☐			361.13		P	2.7
8	☐			811.16		P	5.2

156 Dy [He] No available calibration points

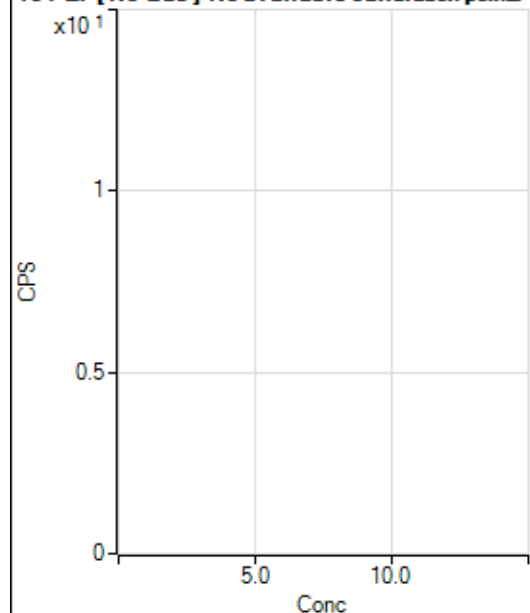
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			6.66		P	86.6
3	☐			25.55		P	61.6
4	☐			55.55		P	12.5
5	☐			91.11		P	36.1
6	☐			178.89		P	3.9
7	☐			344.45		P	16.0
8	☐			536.68		P	16.5

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

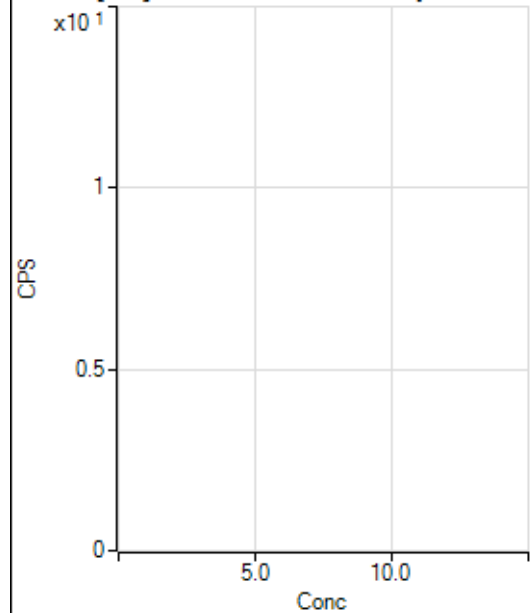
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.67		P	20.0
2	☐			55.56		P	17.3
3	☐			66.67		P	21.7
4	☐			52.78		P	18.2
5	☐			94.45		P	89.3
6	☐			113.89		P	18.4
7	☐			177.79		P	14.3
8	☐			727.82		P	5.4

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			305.56		P	10.9
2	☐			302.23		P	9.2
3	☐			327.79		P	7.8
4	☐			315.56		P	3.2
5	☐			320.01		P	14.0
6	☐			374.46		P	3.6
7	☐			406.68		P	6.5
8	☐			772.25		P	2.4

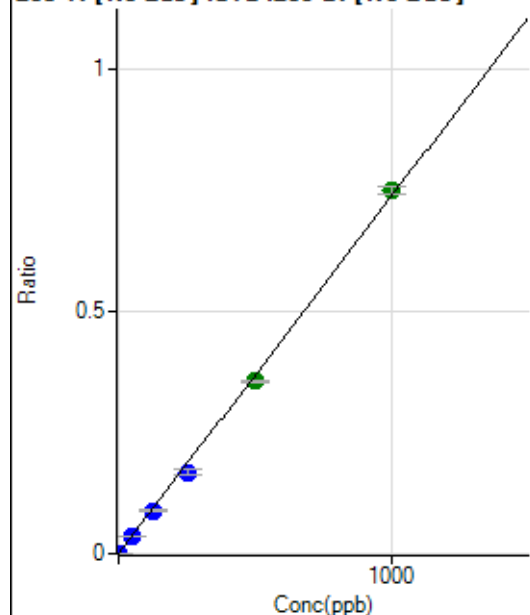
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			69.45		P	25.0
2	☐			30.56		P	41.7
3	☐			58.34		P	24.7
4	☐			61.12		P	34.3
5	☐			52.78		P	24.1
6	☐			72.22		P	29.0
7	☐			94.45		P	31.0
8	☐			77.78		P	16.4

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30.00		P	48.4
2	☐			26.67		P	54.5
3	☐			33.33		P	65.6
4	☐			32.22		P	41.8
5	☐			34.44		P	14.8
6	☐			55.55		P	30.2
7	☐			57.78		P	20.3
8	☐			55.56		P	18.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.23	0.0000	P	50.4
2	☐	1.000	0.928	4442.51	0.0007	P	5.7
3	☐	50.000	47.502	229355.97	0.0350	P	1.3
4	☐	125.000	120.191	578778.47	0.0886	P	2.4
5	☐	250.000	227.851	1144020.54	0.1680	P	6.6
6	☐	500.000	482.497	2356902.31	0.3557	A	1.4
7	☐	1000.000	1015.015	4790333.35	0.7483	A	2.1
8	☐			1108.41	0.0002	P	7.0

$$y = 7.3717\text{E-}004 * x + 1.4487\text{E-}005$$

$$R = 0.9995$$

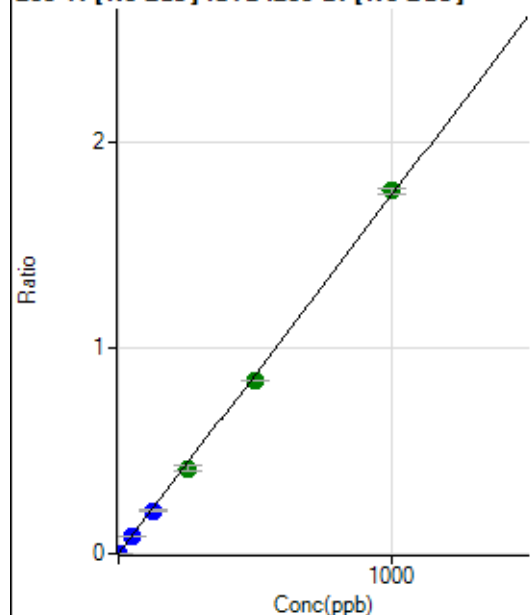
$$DL = 0.02969$$

$$BEC = 0.01965$$

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	255.56	0.0000	P	29.3
2	☐	1.000	0.917	10420.93	0.0016	P	5.3
3	☐	50.000	47.807	546703.63	0.0835	P	1.3
4	☐	125.000	120.376	1372960.25	0.2102	P	2.7
5	☐	250.000	237.467	2824111.22	0.4146	A	6.2
6	☐	500.000	483.092	5588745.13	0.8435	A	1.0
7	☐	1000.000	1012.275	11315410.84	1.7673	A	1.9
8	☐			2769.81	0.0005	P	5.2

$$y = 0.0017 * x + 3.8055\text{E-}005$$

$$R = 0.9997$$

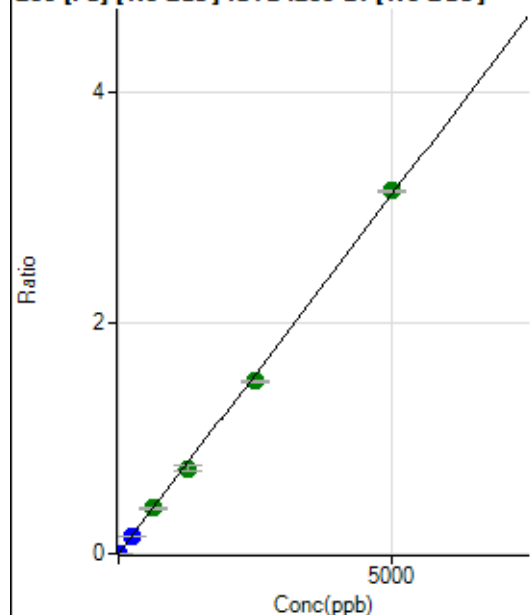
$$DL = 0.01918$$

$$BEC = 0.0218$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	290.75	0.0000	P	19.0
2	☐	1.000	0.906	3852.46	0.0006	P	3.5
3	☐	250.000	234.217	952445.40	0.1455	P	1.3
4	☐	625.000	636.557	2581705.67	0.3953	A	2.1
5	☐	1250.000	1191.882	5039488.94	0.7400	A	7.0
6	☐	2500.000	2409.123	9910993.74	1.4958	A	1.2
7	☐	5000.000	5059.312	20114398.37	3.1411	A	0.3
8	☐			4519.34	0.0008	P	4.1

$$y = 6.2085\text{E-}004 * x + 4.3272\text{E-}005$$

$$R = 0.9997$$

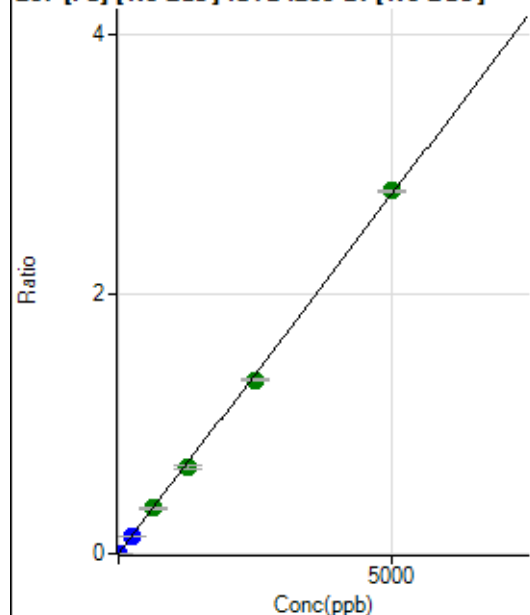
$$DL = 0.03965$$

$$BEC = 0.0697$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	242.60	0.0000	P	1.3
2	☐	1.000	0.864	3270.82	0.0005	P	4.2
3	☐	250.000	231.349	839259.60	0.1282	P	1.2
4	☐	625.000	634.639	2295893.25	0.3515	A	3.4
5	☐	1250.000	1209.287	4563264.80	0.6698	A	5.0
6	☐	2500.000	2416.068	8866638.68	1.3381	A	1.0
7	☐	5000.000	5051.872	17914933.04	2.7980	A	0.6
8	☐			3874.69	0.0007	P	1.6

$$y = 5.5384\text{E-}004 * x + 3.6118\text{E-}005$$

$$R = 0.9997$$

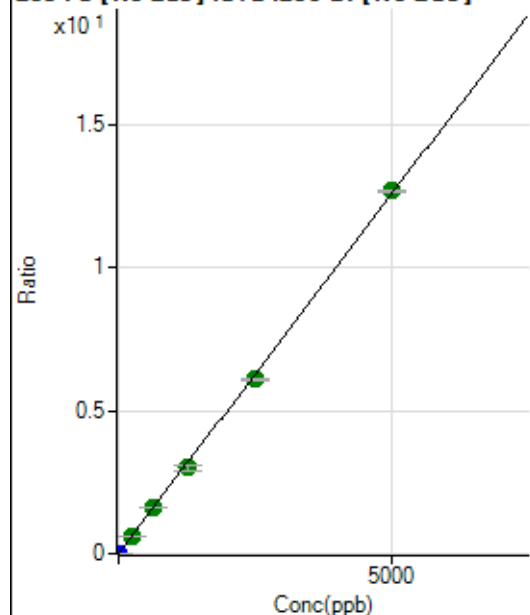
$$DL = 0.002462$$

$$BEC = 0.06521$$

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	1120.41	0.0002	P	11.5
2	☐	1.000	0.881	15138.75	0.0024	P	1.6
3	☐	250.000	244.076	4019613.59	0.6139	A	1.0
4	☐	625.000	637.495	10471609.98	1.6032	A	2.4
5	☐	1250.000	1197.276	20507473.08	3.0108	A	6.1
6	☐	2500.000	2428.786	40469016.47	6.1076	A	1.0
7	☐	5000.000	5047.523	81278283.77	12.6926	A	0.7
8	☐			18032.82	0.0031	P	1.4

$$y = 0.0025 * x + 1.6677E-004$$

$$R = 0.9998$$

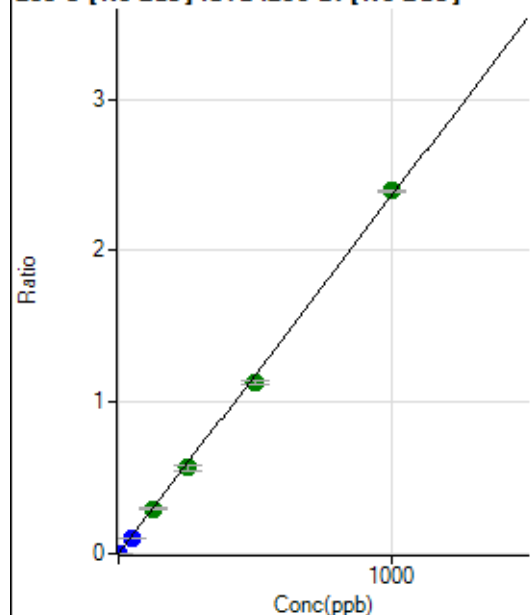
$$DL = 0.02285$$

$$BEC = 0.06632$$

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	27.78	0.0000	P	69.0
2	☐	1.000	0.845	12714.81	0.0020	P	0.6
3	☐	50.000	45.009	695891.62	0.1063	P	1.6
4	☐	125.000	124.684	1922903.56	0.2944	A	2.9
5	☐	250.000	239.229	3847733.77	0.5649	A	5.7
6	☐	500.000	477.755	7474844.01	1.1280	A	2.6
7	☐	1000.000	1014.104	15331548.95	2.3944	A	0.4
8	☐			1005.62	0.0002	P	5.2

$$y = 0.0024 * x + 4.1308E-006$$

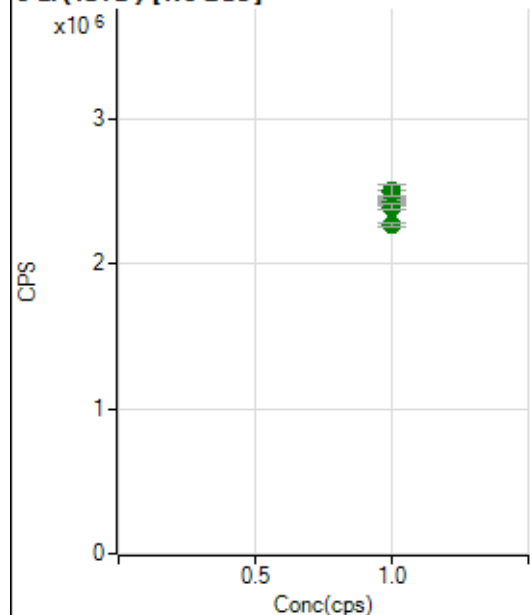
$$R = 0.9996$$

$$DL = 0.003621$$

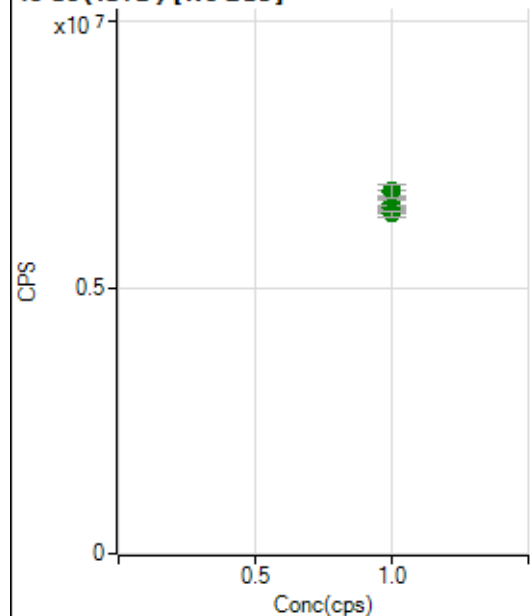
$$BEC = 0.001749$$

Weight: <None>

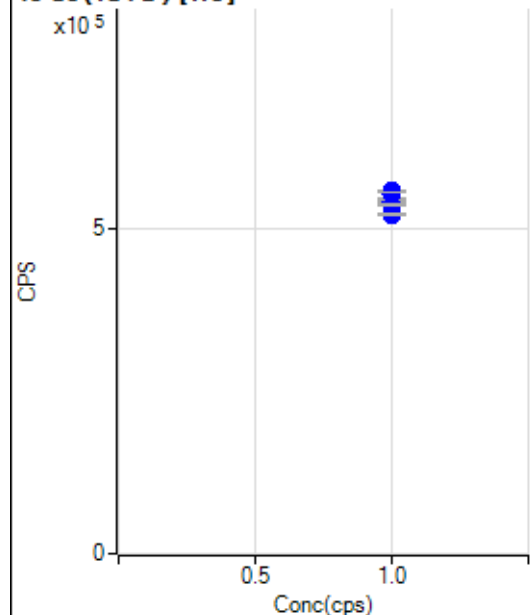
Min Conc: 0

6 Li (ISTD) [No Gas]

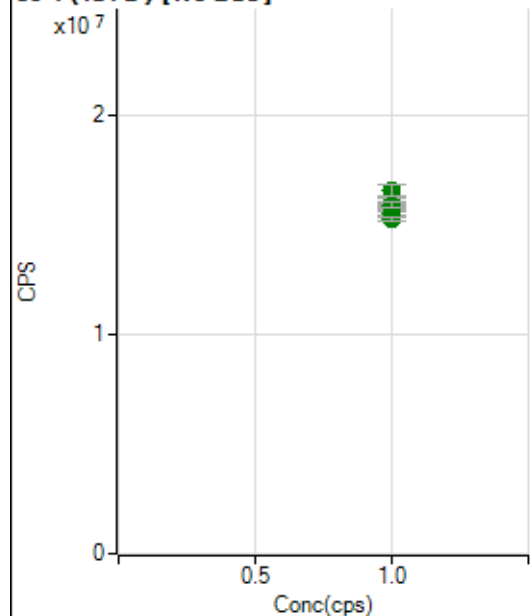
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2485905.08		A	1.9
2	☐	1.000		2412557.04		A	1.0
3	☐	1.000		2433342.20		A	1.4
4	☐	1.000		2427774.53		A	1.3
5	☐	1.000		2499426.18		A	3.1
6	☐	1.000		2389957.67		A	1.4
7	☐	1.000		2389554.06		A	1.7
8	☐	1.000		2267235.92		A	1.2

45 Sc (ISTD) [No Gas]

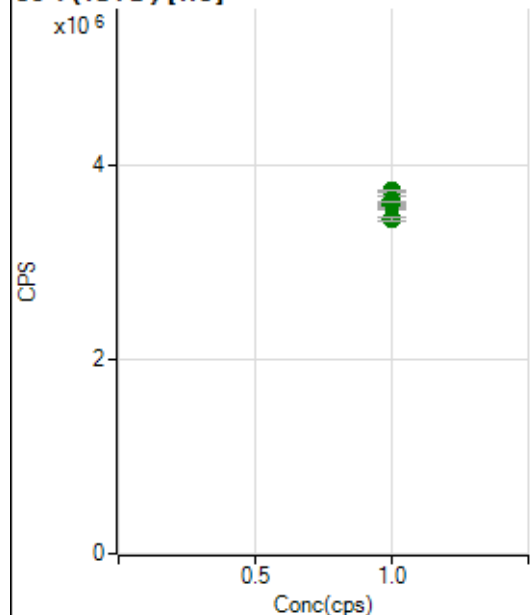
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6786045.87		A	1.5
2	☐	1.000		6465330.88		A	0.6
3	☐	1.000		6579512.19		A	1.9
4	☐	1.000		6518023.37		A	0.8
5	☐	1.000		6823266.98		A	3.6
6	☐	1.000		6449401.57		A	1.1
7	☐	1.000		6522367.75		A	1.1
8	☐	1.000		6393943.52		A	1.5

45 Sc (ISTD) [He]

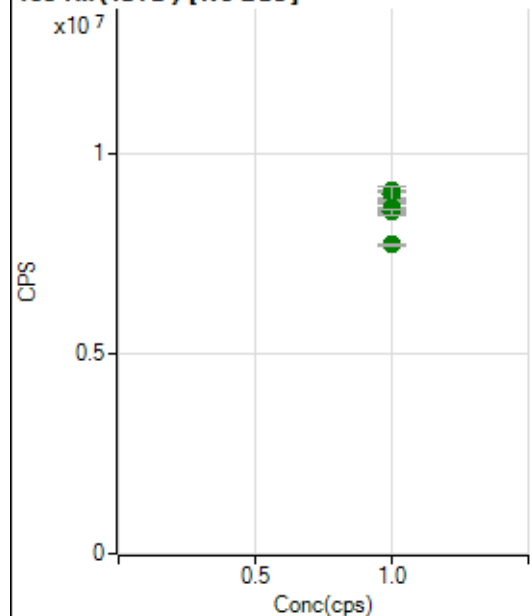
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		556610.02		P	0.6
2	☐	1.000		538244.16		P	0.9
3	☐	1.000		546563.40		P	0.2
4	☐	1.000		534666.02		P	0.5
5	☐	1.000		550846.47		P	1.8
6	☐	1.000		540689.53		P	1.2
7	☐	1.000		534952.77		P	0.7
8	☐	1.000		520545.34		P	0.1

89 Y (ISTD) [No Gas]

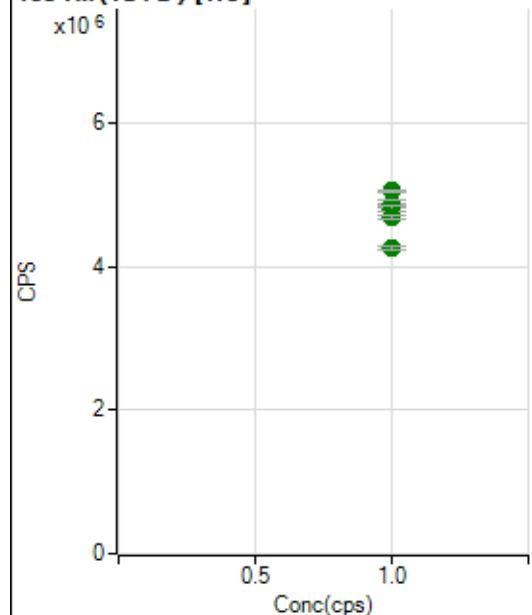
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		16087383.93		A	1.2
2	☐	1.000		15295862.27		A	1.4
3	☐	1.000		15677779.90		A	0.9
4	☐	1.000		15536001.44		A	1.2
5	☐	1.000		16543829.06		A	3.2
6	☐	1.000		15806815.46		A	1.2
7	☐	1.000		15873974.21		A	1.7
8	☐	1.000		15249194.91		A	1.0

89 Y (ISTD) [He]

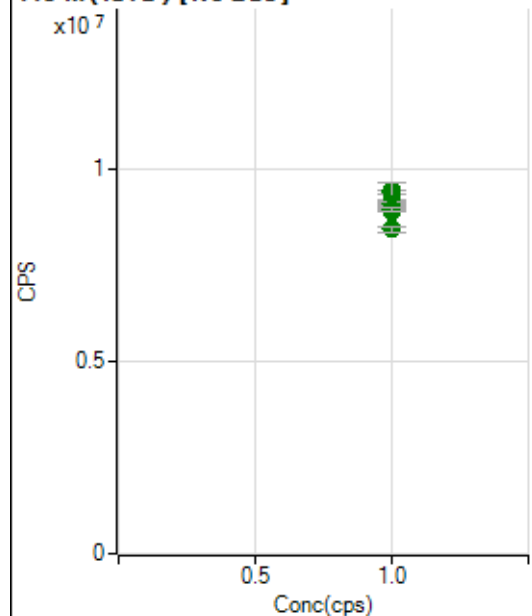
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3732022.20		A	0.5
2	☐	1.000		3606524.04		A	1.0
3	☐	1.000		3573273.39		A	1.0
4	☐	1.000		3585711.82		A	2.0
5	☐	1.000		3635286.19		A	2.4
6	☐	1.000		3590928.49		A	1.4
7	☐	1.000		3618957.00		A	0.4
8	☐	1.000		3435793.18		A	1.3

103 Rh (ISTD) [No Gas]

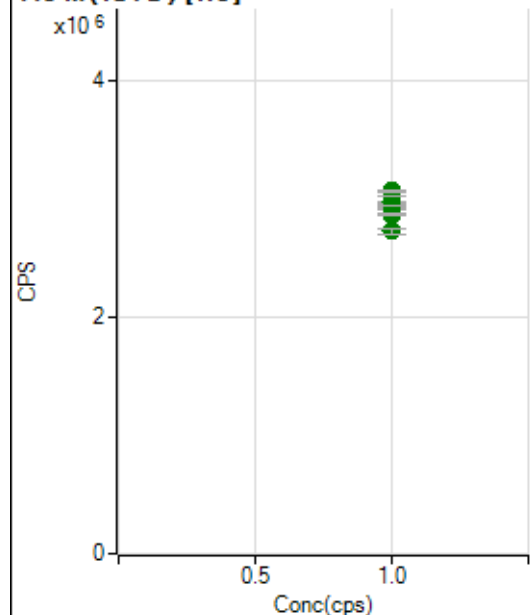
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9080362.02		A	0.6
2	☐	1.000		8628607.51		A	2.7
3	☐	1.000		8846732.72		A	1.2
4	☐	1.000		8612120.98		A	1.5
5	☐	1.000		9018018.75		A	3.5
6	☐	1.000		8645772.30		A	0.9
7	☐	1.000		8552380.15		A	1.8
8	☐	1.000		7743356.90		A	0.5

103 Rh (ISTD) [He]

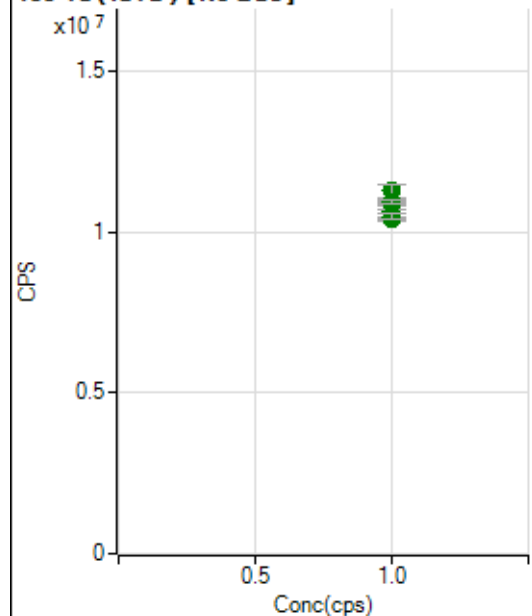
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5052322.46		A	0.3
2	☐	1.000		4870918.85		A	1.9
3	☐	1.000		4865544.27		A	0.5
4	☐	1.000		4783392.67		A	2.4
5	☐	1.000		4868614.68		A	2.1
6	☐	1.000		4800733.02		A	1.6
7	☐	1.000		4682532.40		A	1.0
8	☐	1.000		4254726.74		A	0.9

115 In (ISTD) [No Gas]

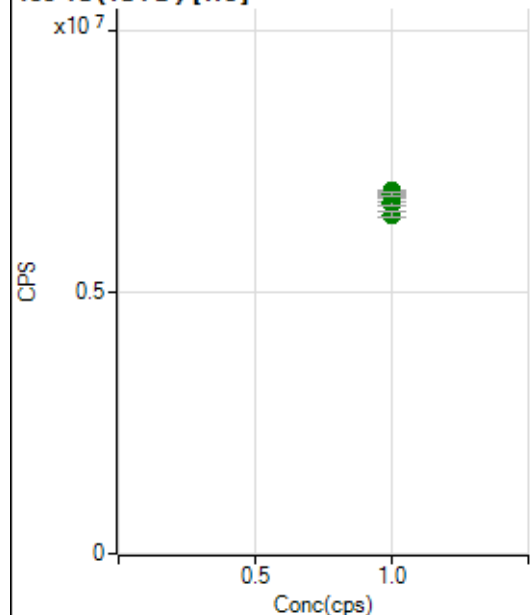
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9371967.55		A	1.1
2	☐	1.000		8895160.35		A	0.9
3	☐	1.000		9135246.53		A	1.1
4	☐	1.000		8959727.13		A	1.5
5	☐	1.000		9409895.03		A	4.4
6	☐	1.000		9062018.58		A	1.0
7	☐	1.000		8939128.26		A	1.0
8	☐	1.000		8405504.49		A	1.4

115 In (ISTD) [He]

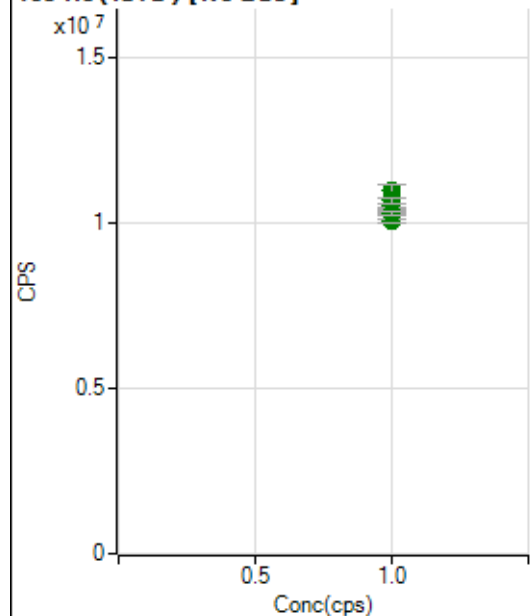
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3064181.94		A	0.7
2	☐	1.000		2954122.46		A	1.2
3	☐	1.000		2950400.87		A	0.6
4	☐	1.000		2922367.07		A	0.8
5	☐	1.000		2978344.95		A	3.2
6	☐	1.000		2939271.01		A	0.2
7	☐	1.000		2866169.69		A	1.0
8	☐	1.000		2722867.19		A	1.5

159 Tb (ISTD) [No Gas]

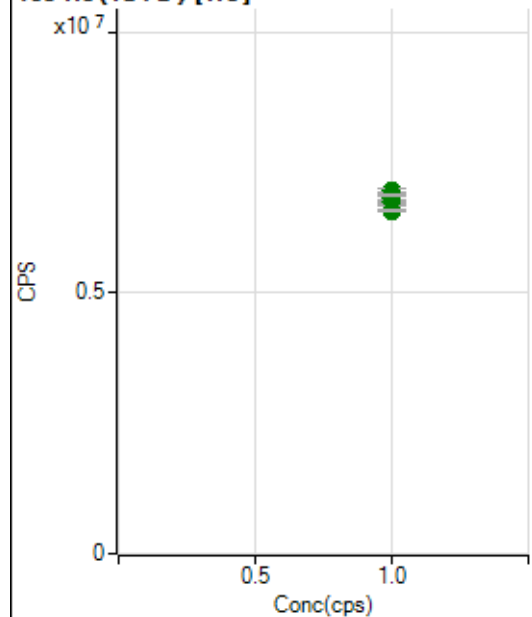
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10914037.27		A	0.3
2	☐	1.000		10387129.50		A	1.1
3	☐	1.000		10654526.58		A	1.0
4	☐	1.000		10633646.58		A	1.4
5	☐	1.000		11285433.79		A	3.4
6	☐	1.000		10873253.45		A	0.8
7	☐	1.000		10935324.14		A	1.0
8	☐	1.000		10492800.26		A	1.6

159 Tb (ISTD) [He]

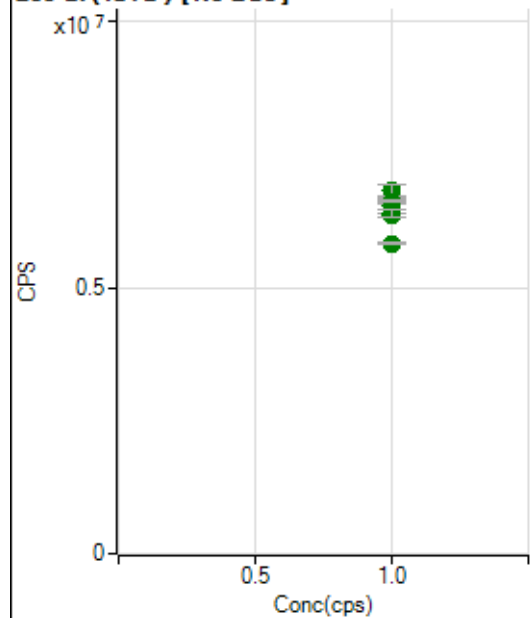
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6941819.20		A	0.7
2	☐	1.000		6700071.71		A	0.8
3	☐	1.000		6810180.04		A	0.6
4	☐	1.000		6738383.02		A	2.0
5	☐	1.000		6883497.89		A	2.1
6	☐	1.000		6863450.31		A	0.4
7	☐	1.000		6876437.81		A	0.8
8	☐	1.000		6489443.72		A	1.6

165 Ho (ISTD) [No Gas]

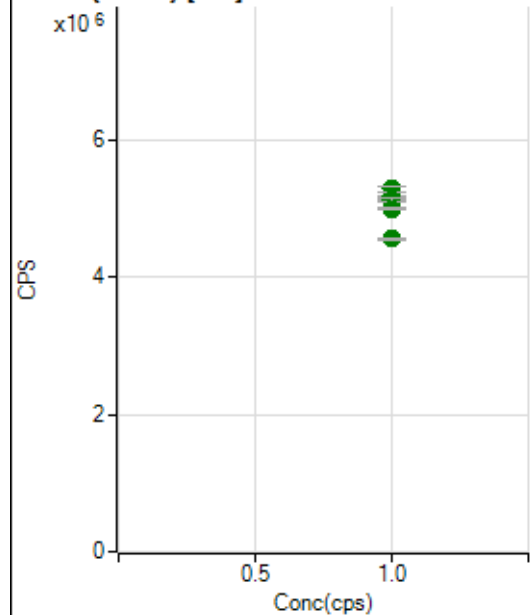
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10554267.97		A	0.9
2	☐	1.000		10069000.13		A	0.8
3	☐	1.000		10348826.03		A	0.5
4	☐	1.000		10346976.86		A	1.5
5	☐	1.000		10982588.17		A	3.9
6	☐	1.000		10540726.99		A	0.8
7	☐	1.000		10694882.97		A	1.5
8	☐	1.000		10298493.32		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6944911.22		A	1.5
2	☐	1.000		6731444.00		A	0.6
3	☐	1.000		6818752.40		A	2.0
4	☐	1.000		6731666.22		A	1.4
5	☐	1.000		6956317.39		A	1.0
6	☐	1.000		6856408.16		A	0.5
7	☐	1.000		6886718.37		A	0.7
8	☐	1.000		6580420.39		A	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6716941.15		A	0.3
2	☐	1.000		6358017.27		A	0.8
3	☐	1.000		6548121.15		A	1.9
4	☐	1.000		6533115.67		A	2.0
5	☐	1.000		6820765.24		A	3.4
6	☐	1.000		6625909.42		A	0.5
7	☐	1.000		6403429.14		A	2.2
8	☐	1.000		5835747.14		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5288467.87		A	1.7
2	☐	1.000		5139551.07		A	0.9
3	☐	1.000		5158913.19		A	1.5
4	☐	1.000		5131531.48		A	1.6
5	☐	1.000		5198948.50		A	2.0
6	☐	1.000		5120785.62		A	0.9
7	☐	1.000		4995656.94		A	0.7
8	☐	1.000		4563953.61		A	0.5

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7103122-MS.b

Acq. Date-Time 2022-10-31 13:38:02

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		7506	75058.84			0.671	5.000
24		85234	852344.15			0.866	5.000
25		11834	118336.68			0.512	5.000
26		13203	132033.13			0.408	5.000
59		67676	676759.34			1.064	5.000
113		7212	72118.22			1.574	5.000
115		92180	921803.59			1.136	5.000
206		19251	192509.49			1.388	5.000
207		17840	178400.31			1.767	5.000
208		41592	415915.49			1.554	5.000
220		0	3.90			49.984	

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

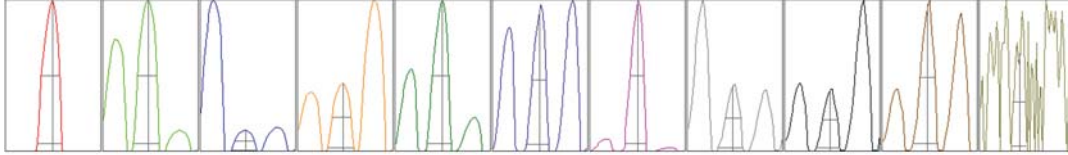
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7517	7541	7516	7537	7418
24	84189	86251	85073	85393	85265
25	11755	11874	11865	11891	11783
26	13112	13223	13231	13250	13200
59	66552	68004	68322	68120	67382
113	7026	7272	7309	7270	7183
115	90677	92574	93186	92923	91541
206	18833	19323	19492	19448	19158
207	17305	18026	18031	18038	17800
208	40539	42049	42042	41930	41398

US EPA Tune Check Report

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
220	1	0	0	0	0

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13993.90	9.00	8.90 - 9.10	
24	147425.51	23.95	23.90 - 24.10	
25	19925.45	24.95	24.90 - 25.10	
26	22835.50	25.95	25.90 - 26.10	
59	137600.23	59.00	58.90 - 59.10	
113	16259.09	113.00	112.90 - 113.10	
115	213288.44	115.05	114.90 - 115.10	
206	40257.57	205.95	205.90 - 206.10	
207	37178.08	206.95	206.90 - 207.10	
208	88905.43	207.95	207.90 - 208.10	
220	0.45	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.774	0.900	
24	0.61	0.815	0.900	
25	0.62	0.786	0.900	
26	0.61	0.823	0.900	
59	0.51	0.769	0.900	
113	0.45	0.705	0.900	
115	0.43	0.681	0.900	
206	0.49	0.772	0.900	
207	0.48	0.739	0.900	
208	0.47	0.772	0.900	
220	0.39	0.490		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	8.9 V	Deflect	14.8 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-65 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	122	Axis Gain	1.0002	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.6 mm
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EM

Discriminator	3.3 mV	Analog HV	2215 V	Pulse HV	1439 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		23315	233152.98			1.101	
89		34974	349740.74			1.289	
205		30827	308266.77			1.197	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	23232	23036	23171	23689	23449
89	34578	34740	34698	35666	35188
205	30464	30684	30689	31437	30859

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	10.7 V	Deflect	3.4 V
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US EPA Tune Check Report

Extract 2	-170.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-90 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	122	Axis Gain	1.0002	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.03		

Hardware Settings

Torch

Torch H	0.3 mm	Torch V	0.6 mm
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EM

Discriminator	3.3 mV	Analog HV	2215 V	Pulse HV	1439 V
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