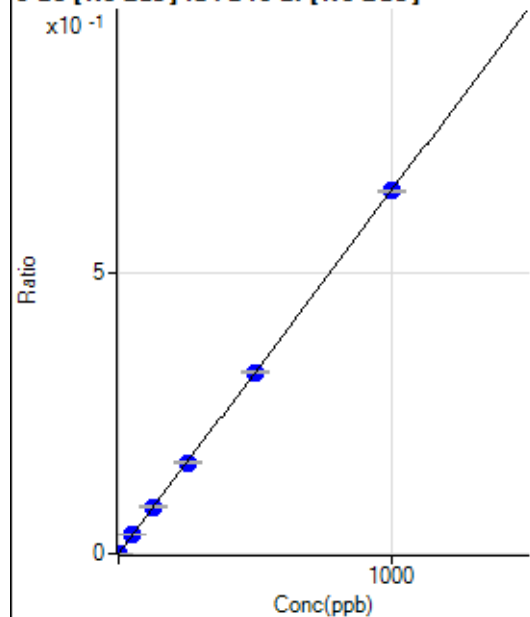


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7092121MS.b\
Analysis File: P7092121MS.batch.bin
DA Date-Time: 2021-09-21 12:44:40
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-09-21 07:50:11
2	004CALS.d	S02	2021-09-21 07:56:24
3	005CALS.d	S03	2021-09-21 07:59:30
4	006CALS.d	S04	2021-09-21 08:02:36
5	007CALS.d	S05	2021-09-21 08:05:41
6	008CALS.d	S06	2021-09-21 08:08:43
7	009CALS.d	S07	2021-09-21 08:11:43
8	010CALS.d	S08	2021-09-21 08:14:41

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.15	0.0000	P	40.5
2	☐	1.000	1.022	1761.25	0.0007	P	0.8
3	☐	50.000	52.075	86464.53	0.0337	P	1.4
4	☐	125.000	129.071	208459.98	0.0835	P	1.4
5	☐	250.000	251.306	391956.03	0.1626	P	1.0
6	☐	500.000	499.897	704651.81	0.3235	P	0.3
7	☐	1000.000	999.112	1349286.88	0.6465	P	0.7
8	☐			235.19	0.0001	P	28.9

$$y = 6.4702\text{E-}004 * x + 1.8849\text{E-}005$$

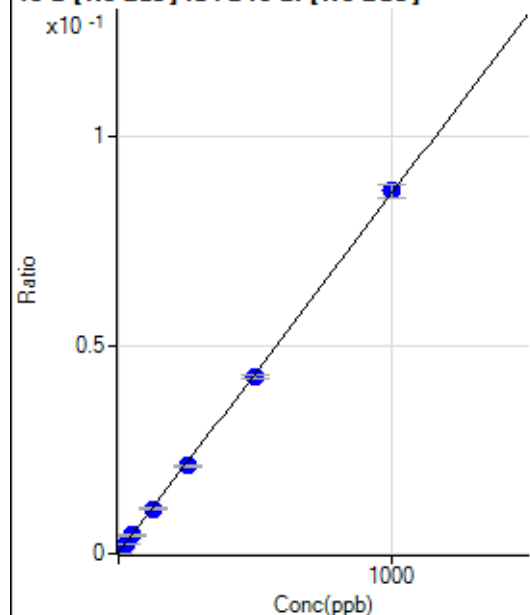
$$R = 1.0000$$

$$DL = 0.03541$$

$$BEC = 0.02913$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	377.79	0.0001	P	4.3
2	☐	25.000	23.541	5640.08	0.0022	P	2.9
3	☐	50.000	49.158	11251.68	0.0044	P	8.3
4	☐	125.000	122.042	26621.20	0.0107	P	4.3
5	☐	250.000	241.877	50604.33	0.0210	P	3.5
6	☐	500.000	490.023	92336.14	0.0424	P	2.1
7	☐	1000.000	1007.468	181575.05	0.0870	P	3.7
8	☐			5176.04	0.0025	P	12.3

$$y = 8.6212\text{E-}005 * x + 1.4783\text{E-}004$$

$$R = 0.9999$$

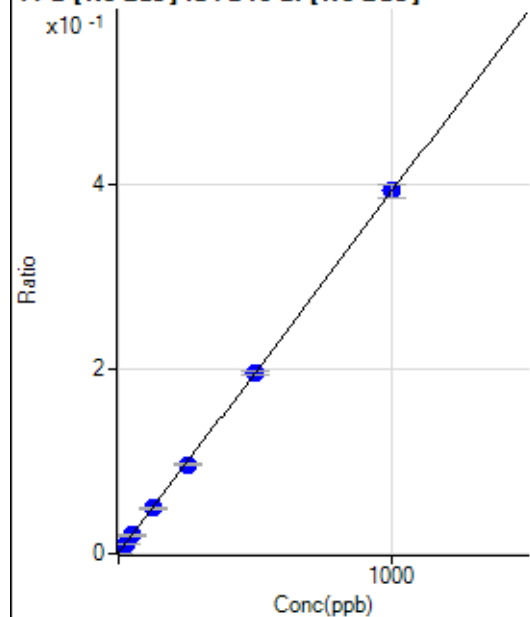
$$DL = 0.2194$$

$$BEC = 1.715$$

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	1755.70	0.0007	P	9.9
2	☐	25.000	24.046	26137.08	0.0101	P	2.0
3	☐	50.000	49.621	51524.02	0.0201	P	3.8
4	☐	125.000	124.144	122861.23	0.0492	P	3.1
5	☐	250.000	245.611	233105.01	0.0967	P	3.8
6	☐	500.000	496.889	424751.67	0.1950	P	2.1
7	☐	1000.000	1002.802	819899.81	0.3929	P	3.7
8	☐			24601.21	0.0118	P	12.5

$$y = 3.9108\text{E-}004 * x + 6.8656\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.5188$$

$$BEC = 1.756$$

Weight: <None>

Min Conc: 0

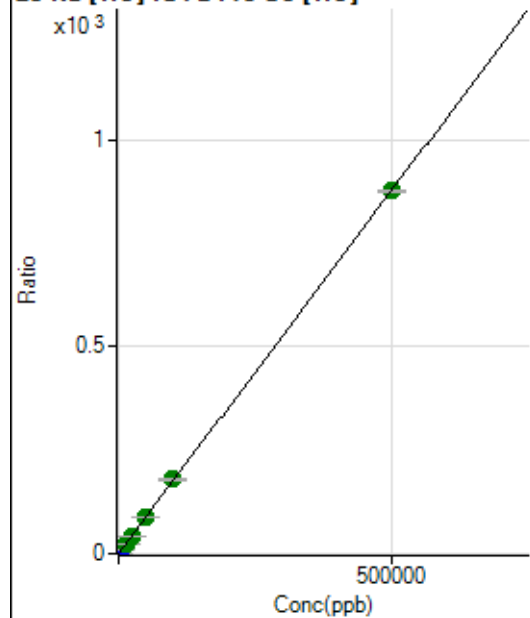
12 C [No Gas] No available calibration points



	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	9208.61	0.0308	P	1.8
2	☐	500.000	491.760	267395.67	0.8928	P	0.5
3	☐	5000.000	5052.107	2582741.38	8.8867	P	1.2
4	☐	12500.000	12514.114	6122864.37	21.9668	A	0.9
5	☐	25000.000	25038.092	11310775.43	43.9201	A	0.7
6	☐	50000.000	49587.254	20814225.47	86.9523	A	0.4
7	☐	100000.00	101951.06	41296476.27	178.7408	A	0.6
8	☐	500000.00	499648.29	220734660.4	875.8643	A	0.5

$$y = 0.0018 * x + 0.0308$$

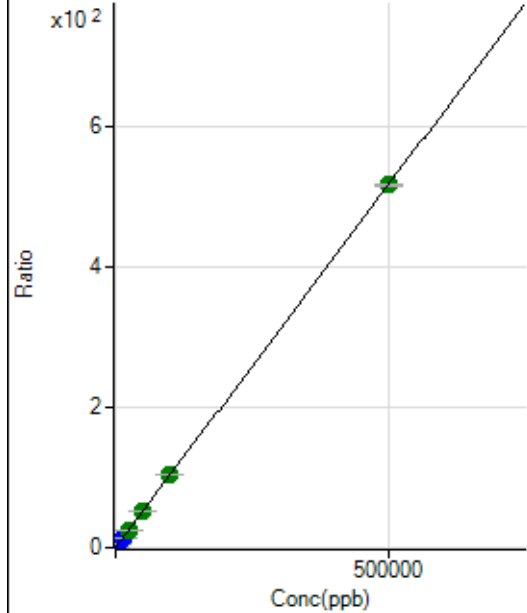
$$R = 1.0000$$

$$DL = 0.9624$$

$$BEC = 17.59$$

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	186.12	0.0006	P	24.0
2	☐	500.000	484.537	150262.17	0.5017	P	0.7
3	☐	5000.000	5145.511	1546811.23	5.3220	P	0.7
4	☐	12500.000	12760.915	3678642.57	13.1978	P	0.9
5	☐	25000.000	24978.041	6652899.28	25.8326	A	0.7
6	☐	50000.000	49584.375	12275116.50	51.2801	A	1.0
7	☐	100000.00	101543.52	24263068.77	105.0155	A	0.6
8	☐	500000.00	499725.99	130258184.8	516.8100	A	0.3

$$y = 0.0010 * x + 6.2255E-004$$

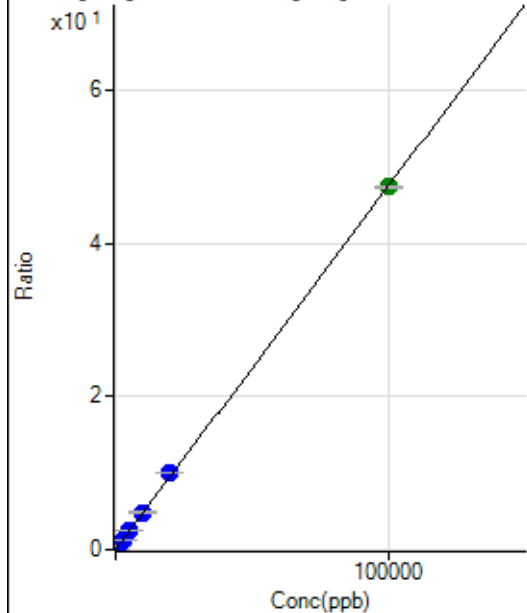
$$R = 1.0000$$

$$DL = 0.4343$$

$$BEC = 0.602$$

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	91.67	0.0003	P	31.5
2	☐	20.000	21.047	3083.72	0.0103	P	2.6
3	☐	1000.000	1072.500	148055.22	0.5094	P	0.4
4	☐	2500.000	2643.579	349849.11	1.2552	P	0.3
5	☐	5000.000	5429.853	663840.51	2.5777	P	0.9
6	☐	10000.000	10277.769	1167883.43	4.8789	P	0.8
7	☐	20000.000	20961.634	2298934.43	9.9503	P	0.6
8	☐	100000.00	99754.089	11932950.27	47.3512	A	0.6

$$y = 4.7468E-004 * x + 3.0599E-004$$

$$R = 0.9999$$

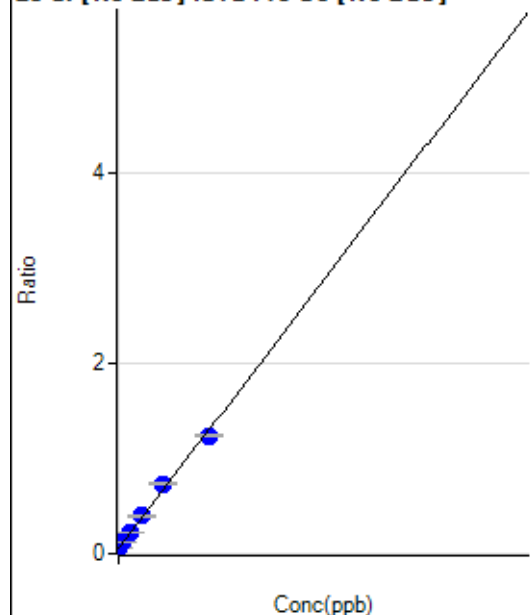
$$DL = 0.6084$$

$$BEC = 0.6446$$

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	212379.71	0.0530	P	2.2
2	☐	10.000	8.219	254342.36	0.0632	P	1.5
3	☐	50.000	51.511	464997.27	0.1166	P	2.0
4	☐	125.000	133.997	835646.49	0.2183	P	3.8
5	☐	250.000	277.121	1432122.09	0.3948	P	4.4
6	☐	500.000	554.711	2388469.28	0.7372	P	4.9
7	☐	1000.000	964.682	3825397.96	1.2429	P	2.0
8	☐			338887.77	0.1064	P	2.7

$$y = 0.0012 * x + 0.0530$$

$$R = 0.9972$$

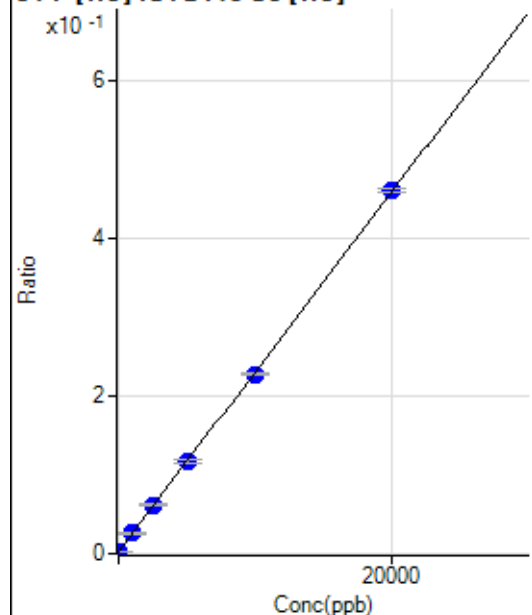
$$DL = 2.865$$

$$BEC = 42.99$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-11.229	866.72	0.0029	P	2.9
2	☐	0.000	11.229	1022.29	0.0034	P	9.7
3	☐	1000.000	1006.620	7568.77	0.0260	P	4.1
4	☐	2500.000	2585.066	17260.34	0.0619	P	2.5
5	☐	5000.000	5003.918	30108.62	0.1169	P	3.0
6	☐	10000.000	9831.915	54260.02	0.2267	P	1.1
7	☐	20000.000	20072.098	106152.60	0.4595	P	0.9
8	☐			786.16	0.0031	P	9.7

$$y = 2.2733E-005 * x + 0.0032$$

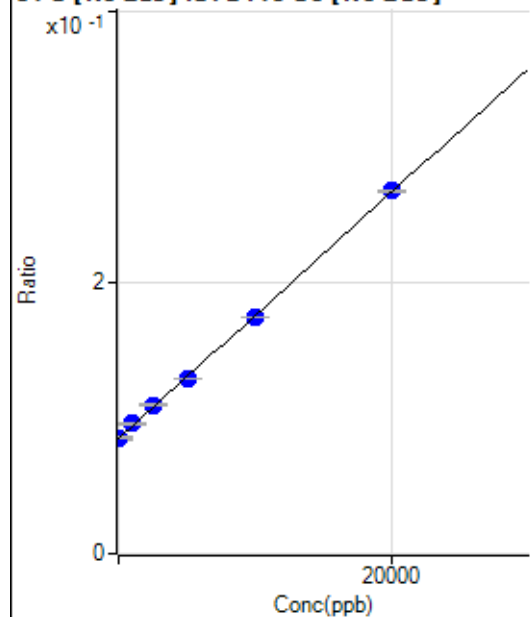
$$R = 0.9999$$

$$DL = 27.43$$

$$BEC = 138.9$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-57.092	338117.52	0.0844	P	0.7
2	☐	0.000	57.092	344142.85	0.0855	P	1.6
3	☐	1000.000	1243.745	384026.82	0.0963	P	1.1
4	☐	2500.000	2721.575	419939.95	0.1097	P	0.8
5	☐	5000.000	4882.414	469263.67	0.1294	P	0.1
6	☐	10000.000	9816.804	564583.84	0.1742	P	0.3
7	☐	20000.000	20081.110	823619.46	0.2676	P	0.4
8	☐			273813.26	0.0860	P	2.0

$$y = 9.0954\text{E-}006 * x + 0.0849$$

$$R = 0.9998$$

$$DL = 327.7$$

$$BEC = 9339$$

Weight: <None>

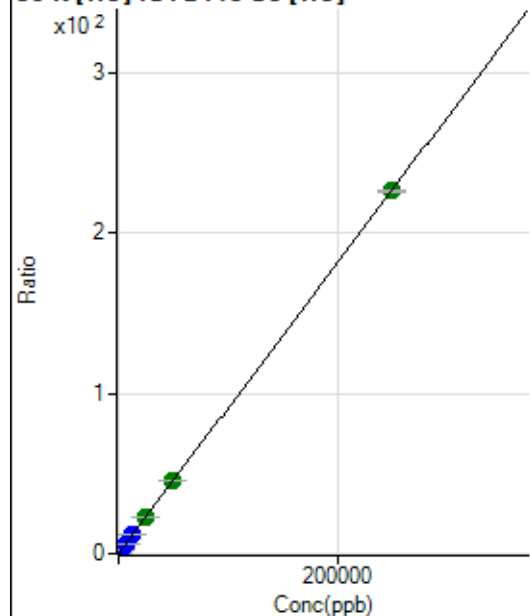
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	34878.18	0.1167	P	8.8
2	☐	500.000	511.683	173485.57	0.5793	P	1.4
3	☐	2500.000	2762.831	759907.62	2.6145	P	0.6
4	☐	6250.000	6819.496	1750997.56	6.2820	P	0.8
5	☐	12500.000	13359.429	3140616.33	12.1946	P	0.8
6	☐	25000.000	24513.259	5332964.35	22.2785	A	0.6
7	☐	50000.000	49933.510	10457037.12	45.2603	A	0.4
8	☐	250000.00	250002.11	56995373.50	226.1371	A	0.7

$$y = 9.0407\text{E-}004 * x + 0.1167$$

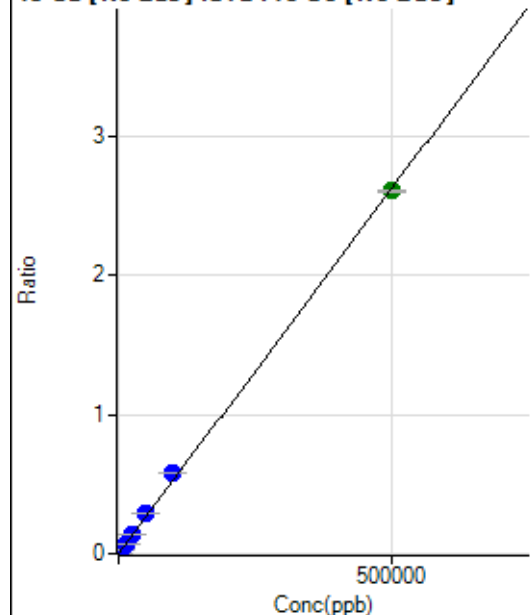
$$R = 1.0000$$

$$DL = 33.95$$

$$BEC = 129$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	177.78	0.0000	P	31.1
2	☐	500.000	524.159	11251.75	0.0028	P	3.7
3	☐	5000.000	5557.973	116499.27	0.0292	P	1.5
4	☐	12500.000	13685.195	275016.97	0.0718	P	0.8
5	☐	25000.000	27117.344	516272.00	0.1423	P	0.7
6	☐	50000.000	54377.510	924564.47	0.2853	P	0.4
7	☐	100000.00	110372.08	1782411.46	0.5791	P	0.2
8	☐	500000.00	497346.73	8306965.12	2.6093	A	0.8

$$y = 5.2463\text{E-}006 * x + 4.4383\text{E-}005$$

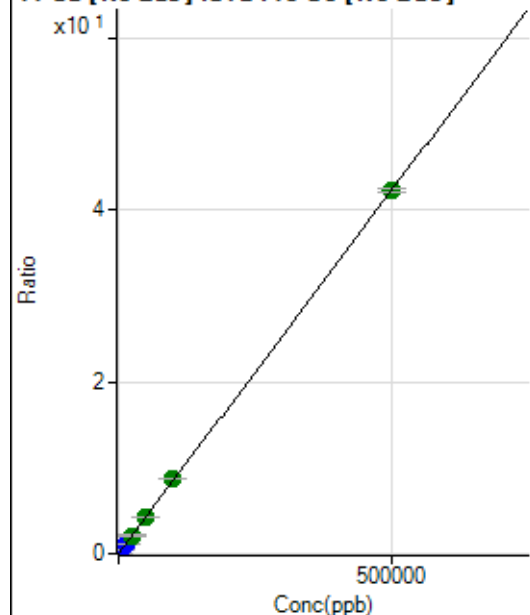
$$R = 0.9998$$

$$DL = 7.885$$

$$BEC = 8.46$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6896.24	0.0017	P	3.6
2	☐	500.000	522.524	184612.72	0.0458	P	0.3
3	☐	5000.000	5448.988	1842458.85	0.4619	P	1.2
4	☐	12500.000	13492.441	4368268.46	1.1411	P	0.2
5	☐	25000.000	25036.589	7675974.82	2.1159	A	1.0
6	☐	50000.000	49787.164	13628923.74	4.2059	A	0.3
7	☐	100000.00	102196.42	26567613.44	8.6315	A	0.3
8	☐	500000.00	499550.84	134295664.1	42.1855	A	1.2

$$y = 8.4443\text{E-}005 * x + 0.0017$$

$$R = 1.0000$$

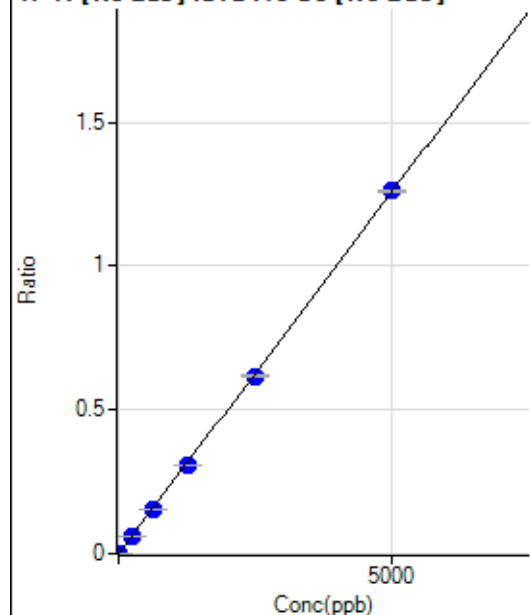
$$DL = 2.231$$

$$BEC = 20.39$$

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	61.11	0.0000	P	31.3
2	☐	5.000	4.864	4975.97	0.0012	P	3.9
3	☐	250.000	250.753	251026.17	0.0629	P	0.6
4	☐	625.000	621.631	597073.28	0.1560	P	0.6
5	☐	1250.000	1231.720	1121086.44	0.3090	P	0.9
6	☐	2500.000	2460.400	2000202.22	0.6173	P	0.5
7	☐	5000.000	5024.754	3880053.08	1.2606	P	0.4
8	☐			797.27	0.0003	P	1.9

$$y = 2.5088\text{E-}004 * x + 1.5255\text{E-}005$$

$$R = 0.9999$$

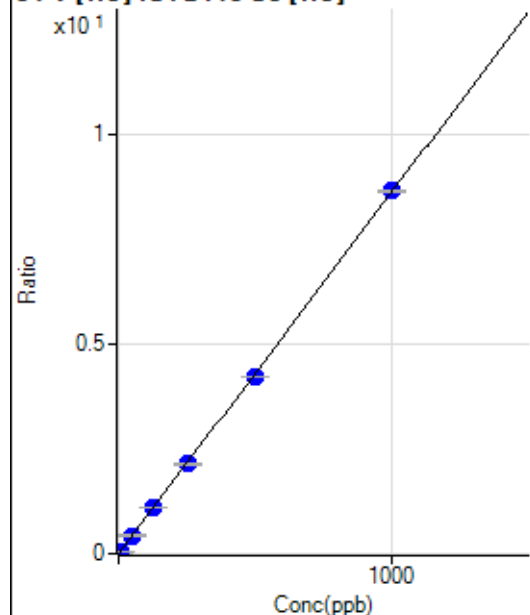
$$DL = 0.05713$$

$$BEC = 0.06081$$

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	1.11	0.0000	P	173.2
2	☐	5.000	5.021	12959.10	0.0433	P	1.4
3	☐	50.000	50.517	126531.91	0.4353	P	0.3
4	☐	125.000	125.658	301834.53	1.0829	P	0.7
5	☐	250.000	248.758	552071.46	2.1437	P	1.3
6	☐	500.000	491.479	1013854.46	4.2354	P	0.4
7	☐	1000.000	1004.463	1999936.20	8.6561	P	0.7
8	☐			214.45	0.0008	P	26.4

$$y = 0.0086 * x + 3.6416\text{E-}006$$

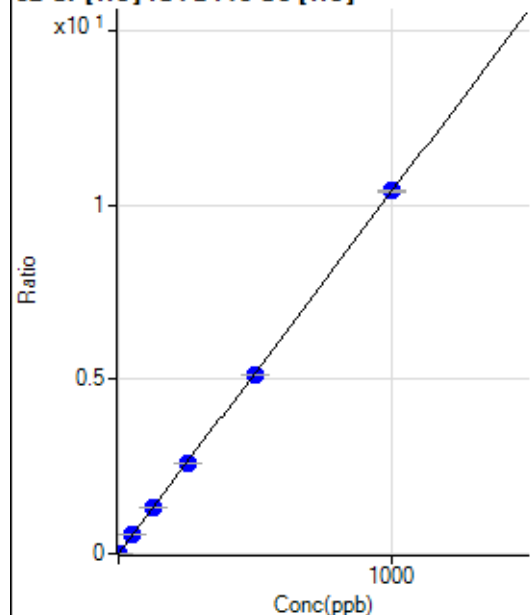
$$R = 0.9999$$

$$DL = 0.002196$$

$$BEC = 0.0004226$$

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	747.81	0.0025	P	4.8
2	☐	2.000	2.034	7066.20	0.0236	P	3.4
3	☐	50.000	50.894	154136.14	0.5303	P	0.4
4	☐	125.000	126.749	367073.98	1.3169	P	0.8
5	☐	250.000	249.744	667655.15	2.5924	P	0.4
6	☐	500.000	494.555	1228292.13	5.1312	P	0.2
7	☐	1000.000	1002.523	2402617.65	10.3991	P	0.3
8	☐			8797.14	0.0349	P	1.6

$$y = 0.0104 * x + 0.0025$$

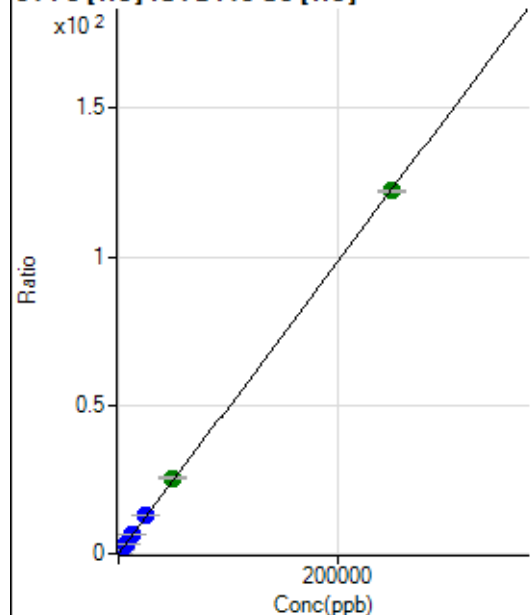
$$R = 1.0000$$

$$DL = 0.03445$$

$$BEC = 0.2413$$

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	800.85	0.0027	P	14.3
2	☐	50.000	54.921	8865.14	0.0296	P	4.0
3	☐	2500.000	2737.980	390826.55	1.3446	P	0.5
4	☐	6250.000	6871.740	939503.46	3.3706	P	1.6
5	☐	12500.000	13550.574	1711043.53	6.6440	P	0.7
6	☐	25000.000	26853.405	3151102.97	13.1639	P	0.4
7	☐	50000.000	52101.798	5900243.26	25.5384	A	1.1
8	☐	250000.00	249323.84	30796440.78	122.1992	A	0.5

$$y = 4.9011E-004 * x + 0.0027$$

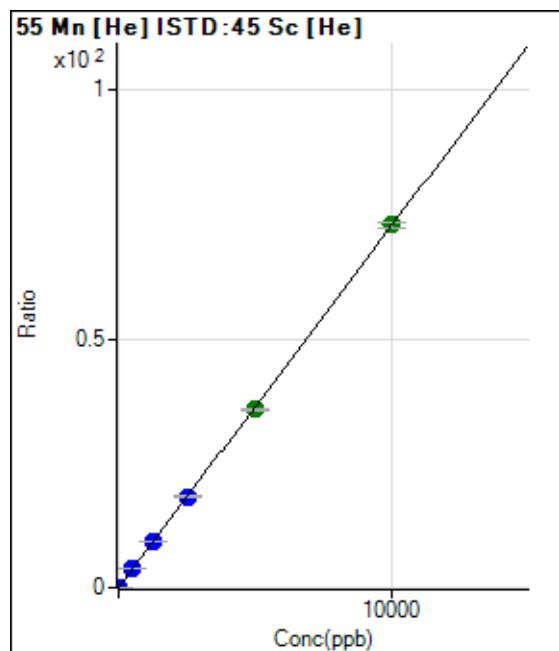
$$R = 0.9999$$

$$DL = 2.35$$

$$BEC = 5.477$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	107.78	0.0004	P	12.2
2	☐	1.000	1.047	2384.66	0.0080	P	2.0
3	☐	500.000	506.995	1070296.18	3.6825	P	0.5
4	☐	1250.000	1265.238	2561356.02	9.1893	P	0.1
5	☐	2500.000	2515.730	4705423.13	18.2712	P	0.8
6	☐	5000.000	4925.581	8563114.60	35.7731	A	0.9
7	☐	10000.000	10031.023	16831237.25	72.8521	A	1.3
8	☐			17086.66	0.0678	P	1.0

$$y = 0.0073 * x + 3.6038E-004$$

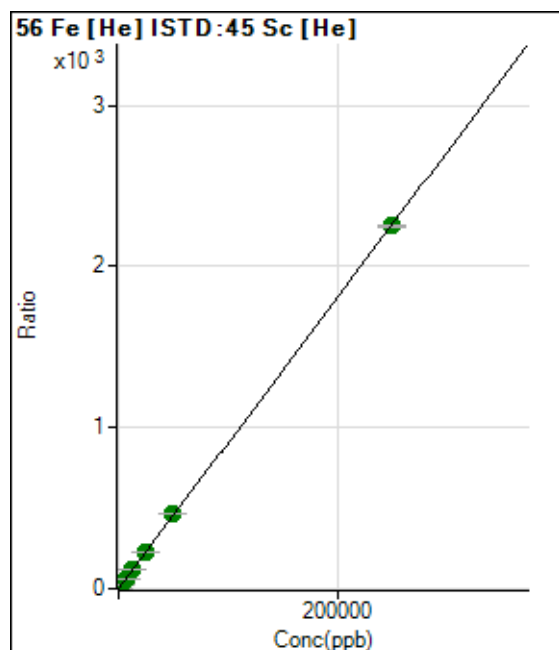
$$R = 1.0000$$

$$DL = 0.01815$$

$$BEC = 0.04962$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	4400.74	0.0147	P	2.3
2	☐	50.000	53.552	149066.55	0.4977	P	0.7
3	☐	2500.000	2568.223	6736459.00	23.1779	A	1.5
4	☐	6250.000	6385.162	16055937.40	57.6034	A	0.6
5	☐	12500.000	12725.571	29561319.64	114.7885	A	1.1
6	☐	25000.000	25288.513	54600941.96	228.0955	A	0.7
7	☐	50000.000	51530.434	107380874.6	464.7753	A	0.7
8	☐	250000.00	249649.72	567501201.5	2.251.642	A	0.3

$$y = 0.0090 * x + 0.0147$$

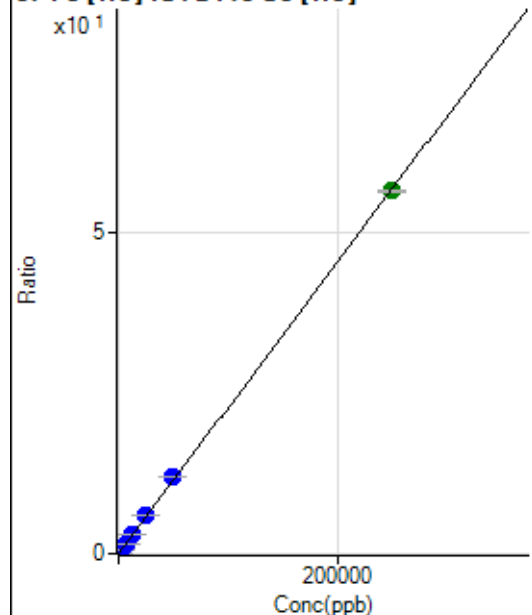
$$R = 1.0000$$

$$DL = 0.114$$

$$BEC = 1.634$$

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	212.97	0.0007	P	14.3
2	☐	50.000	52.905	3802.41	0.0127	P	4.4
3	☐	2500.000	2657.460	175151.92	0.6026	P	1.6
4	☐	6250.000	6623.812	418391.00	1.5010	P	0.8
5	☐	12500.000	13229.692	771915.30	2.9973	P	0.8
6	☐	25000.000	26021.592	1411067.64	5.8948	P	0.8
7	☐	50000.000	52912.975	2769184.70	11.9858	P	0.9
8	☐	250000.00	249267.84	14229136.43	56.4615	A	0.8

$$y = 2.2651\text{E-}004 * x + 7.1272\text{E-}004$$

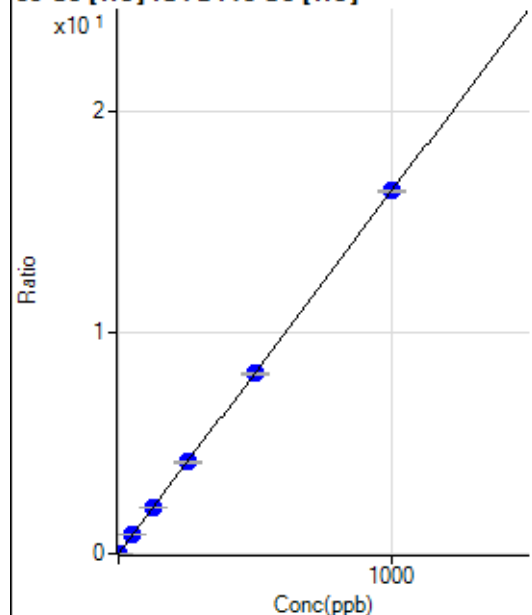
$$R = 0.9999$$

$$DL = 1.353$$

$$BEC = 3.147$$

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	42.22	0.0001	P	30.1
2	☐	1.000	1.028	5085.37	0.0170	P	2.2
3	☐	50.000	51.499	245147.27	0.8435	P	1.3
4	☐	125.000	128.537	586742.55	2.1050	P	0.7
5	☐	250.000	252.039	1063005.01	4.1275	P	0.5
6	☐	500.000	496.253	1945339.38	8.1267	P	0.2
7	☐	1000.000	1000.847	3786713.38	16.3899	P	0.8
8	☐			10128.02	0.0402	P	2.5

$$y = 0.0164 * x + 1.4088\text{E-}004$$

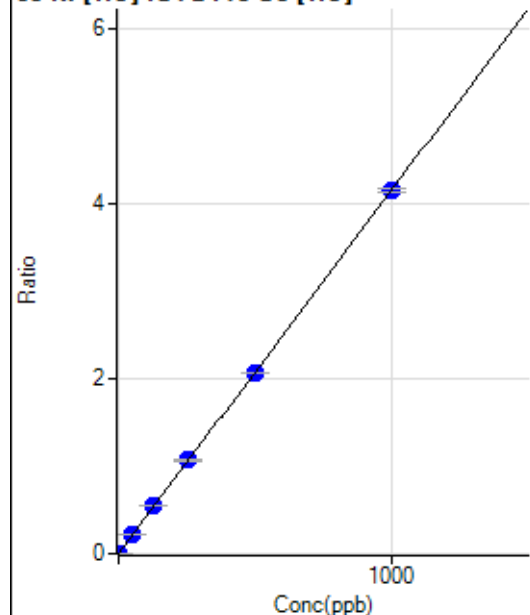
$$R = 1.0000$$

$$DL = 0.007761$$

$$BEC = 0.008603$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	352.23	0.0012	P	23.8
2	☐	1.000	1.041	1646.78	0.0055	P	3.3
3	☐	50.000	53.369	64726.13	0.2227	P	1.7
4	☐	125.000	130.416	151220.89	0.5425	P	0.8
5	☐	250.000	256.939	274983.37	1.0677	P	0.5
6	☐	500.000	498.028	495148.65	2.0685	P	0.6
7	☐	1000.000	998.406	957778.66	4.1455	P	0.9
8	☐			4441.83	0.0176	P	2.8

$$y = 0.0042 * x + 0.0012$$

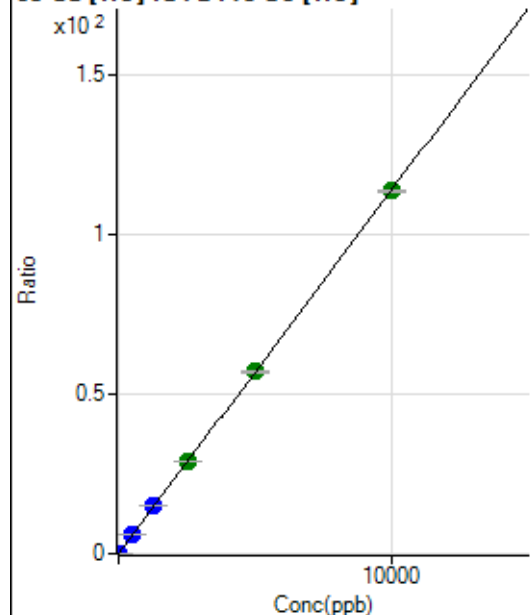
$$R = 1.0000$$

$$DL = 0.2019$$

$$BEC = 0.2833$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	910.04	0.0030	P	4.4
2	☐	2.000	1.985	7690.97	0.0257	P	4.4
3	☐	500.000	530.969	1760376.55	6.0567	P	1.2
4	☐	1250.000	1309.596	4162561.74	14.9339	P	0.4
5	☐	2500.000	2543.318	7468472.04	28.9998	A	1.2
6	☐	5000.000	4999.973	13646528.82	57.0084	A	0.9
7	☐	10000.000	9980.186	26290126.28	113.7885	A	0.5
8	☐			7178.49	0.0285	P	1.5

$$y = 0.0114 * x + 0.0030$$

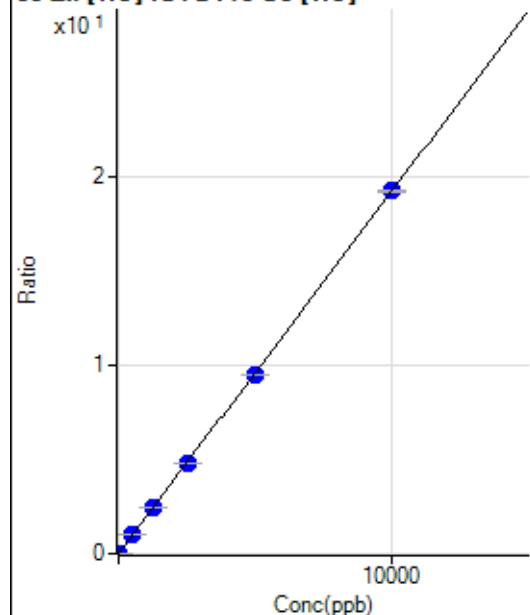
$$R = 1.0000$$

$$DL = 0.03547$$

$$BEC = 0.2673$$

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	565.57	0.0019	P	8.7
2	☐	2.000	2.440	1972.38	0.0066	P	3.3
3	☐	500.000	513.739	287556.69	0.9894	P	0.9
4	☐	1250.000	1270.143	681036.75	2.4433	P	0.6
5	☐	2500.000	2508.916	1242468.88	4.8245	P	0.9
6	☐	5000.000	4948.616	2277416.27	9.5140	P	0.6
7	☐	10000.000	10020.258	4450417.50	19.2627	P	0.8
8	☐			8312.43	0.0330	P	0.9

$$y = 0.0019 * x + 0.0019$$

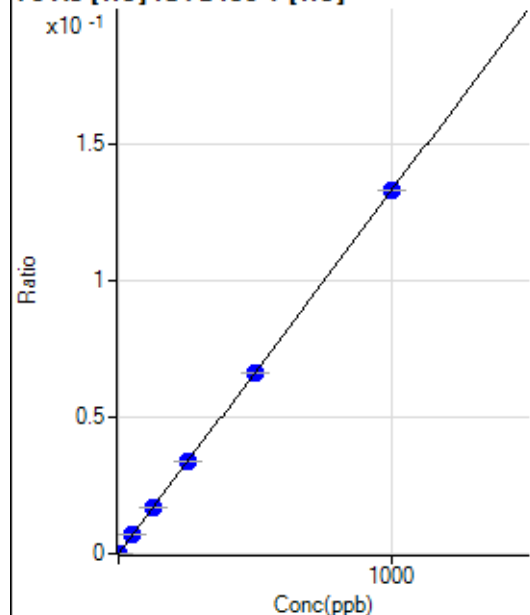
$$R = 1.0000$$

$$DL = 0.2565$$

$$BEC = 0.986$$

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	6.79	0.0000	P	32.5
2	☐	1.000	1.007	338.89	0.0001	P	3.8
3	☐	50.000	52.540	16713.95	0.0070	P	0.8
4	☐	125.000	128.727	39816.57	0.0171	P	0.6
5	☐	250.000	253.812	73127.26	0.0338	P	0.8
6	☐	500.000	497.813	134472.74	0.0663	P	0.8
7	☐	1000.000	999.548	263957.56	0.1330	P	0.1
8	☐			107.41	0.0001	P	16.7

$$y = 1.3309E-004 * x + 2.7606E-006$$

$$R = 1.0000$$

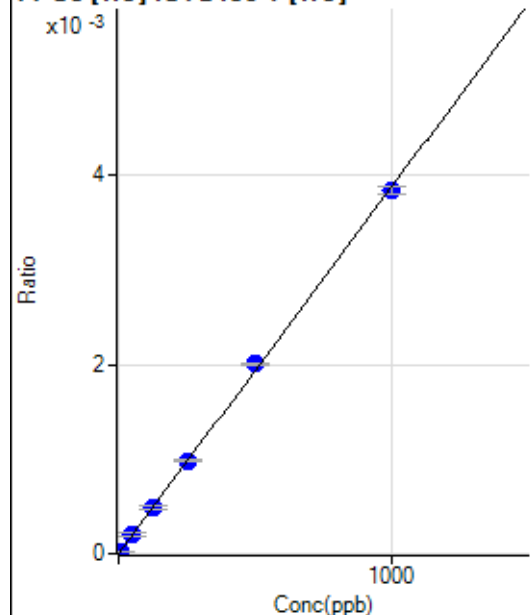
$$DL = 0.0202$$

$$BEC = 0.02074$$

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	0.00	0.0000	P	
2	☐	5.000	4.398	42.22	0.0000	P	38.9
3	☐	50.000	52.125	482.23	0.0002	P	11.4
4	☐	125.000	124.645	1122.28	0.0005	P	9.2
5	☐	250.000	253.771	2127.96	0.0010	P	3.5
6	☐	500.000	518.499	4077.28	0.0020	P	0.9
7	☐	1000.000	989.749	7608.73	0.0038	P	2.0
8	☐			3.33	0.0000	P	100.8

$$y = 3.8746\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9997$$

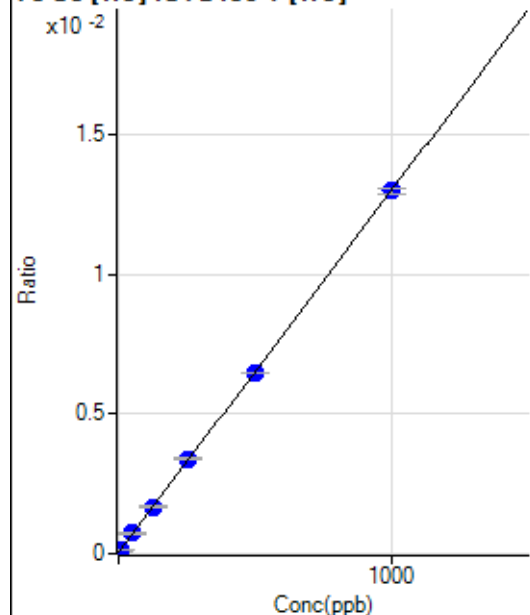
$$DL = 0$$

$$BEC = 0$$

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	100.62	0.0000	P	11.2
2	☐	5.000	5.487	277.16	0.0001	P	7.0
3	☐	50.000	52.816	1732.83	0.0007	P	3.4
4	☐	125.000	126.096	3892.52	0.0017	P	2.1
5	☐	250.000	258.936	7353.74	0.0034	P	0.9
6	☐	500.000	496.663	13150.43	0.0065	P	0.5
7	☐	1000.000	999.154	25779.65	0.0130	P	1.7
8	☐			77.78	0.0000	P	7.3

$$y = 1.2963\text{E-}005 * x + 4.0751\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.061$$

$$BEC = 3.144$$

Weight: <None>

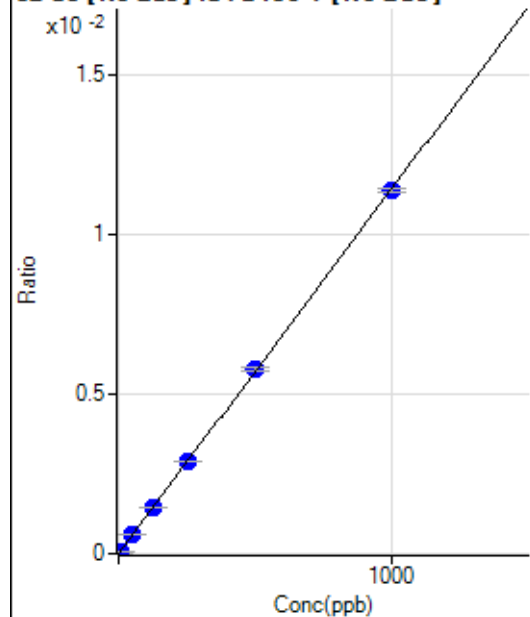
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6340.46		P	5.7
2	☐			6157.04		P	3.4
3	☐			6007.00		P	3.1
4	☐			5895.78		P	3.8
5	☐			5498.43		P	5.7
6	☐			4828.71		P	8.8
7	☐			4781.49		P	3.7
8	☐			4356.31		P	2.4

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53.39		P	54.1
2	☐			40.04		P	50.0
3	☐			33.37		P	34.6
4	☐			33.37		P	17.3
5	☐			36.70		P	41.7
6	☐			30.03		P	57.7
7	☐			50.05		P	34.6
8	☐			80.08		P	37.5

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	20.08	0.0000	P	365.9
2	☐	5.000	5.051	657.08	0.0001	P	13.9
3	☐	50.000	51.281	6481.91	0.0006	P	1.4
4	☐	125.000	128.361	15617.49	0.0015	P	0.5
5	☐	250.000	252.044	29557.31	0.0029	P	1.3
6	☐	500.000	507.745	54190.11	0.0058	P	1.9
7	☐	1000.000	995.132	103434.26	0.0113	P	1.0
8	☐			-19.39	0.0000	P	-357.

$$y = 1.1398\text{E-}005 * x + 1.8497\text{E-}006$$

$$R = 1.0000$$

$$DL = 1.781$$

$$BEC = 0.1623$$

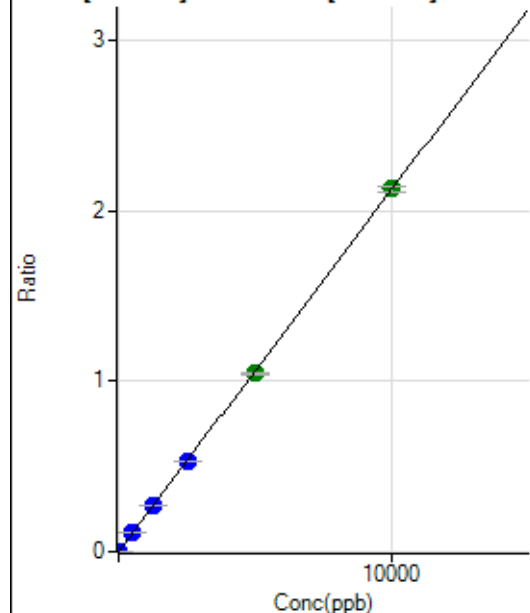
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			617.79		P	5.9
2	☐			591.13		P	9.4
3	☐			628.91		P	8.2
4	☐			642.24		P	5.2
5	☐			608.91		P	3.5
6	☐			450.01		P	3.4
7	☐			436.68		P	9.9
8	☐			570.02		P	8.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1138.96	0.0001	P	2.7
2	☐	1.000	1.005	3500.52	0.0003	P	8.0
3	☐	500.000	507.467	1192210.77	0.1078	P	1.0
4	☐	1250.000	1271.113	2878215.54	0.2700	P	0.7
5	☐	2500.000	2503.413	5465993.57	0.5316	P	1.4
6	☐	5000.000	4930.784	9799822.53	1.0470	A	0.7
7	☐	10000.000	10030.742	19418764.15	2.1298	A	1.4
8	☐			8686.18	0.0009	P	1.2

$$y = 2.1231\text{E-}004 * x + 1.0362\text{E-}004$$

$$R = 1.0000$$

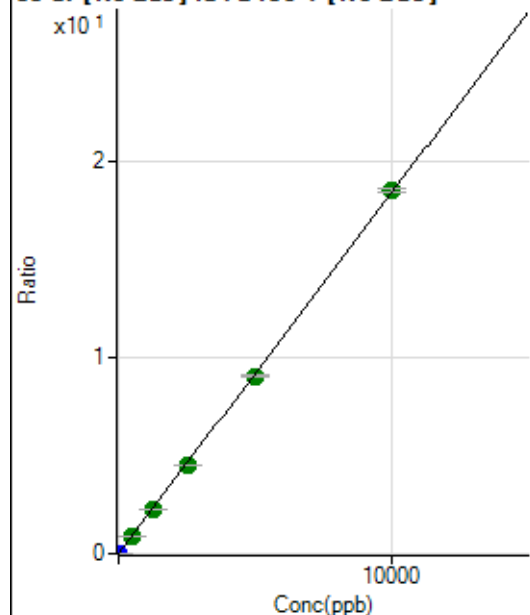
$$DL = 0.03993$$

$$BEC = 0.488$$

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	202.78	0.0000	P	30.3
2	☐	1.000	1.100	22590.42	0.0020	P	4.0
3	☐	500.000	498.047	10148021.24	0.9179	A	0.2
4	☐	1250.000	1247.562	24512990.82	2.2993	A	0.7
5	☐	2500.000	2456.964	46559030.21	4.5283	A	1.6
6	☐	5000.000	4919.112	84860024.81	9.0661	A	0.6
7	☐	10000.000	10051.605	168907063.5	18.5254	A	1.0
8	☐			68357.15	0.0073	P	1.3

$$y = 0.0018 * x + 1.8400\text{E-}005$$

$$R = 0.9999$$

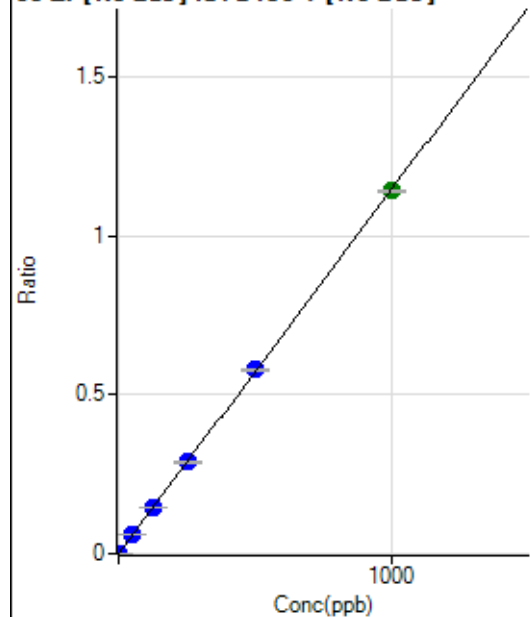
$$DL = 0.009083$$

$$BEC = 0.009984$$

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	550.03	0.0001	P	12.5
2	☐	1.000	0.967	12792.15	0.0012	P	3.5
3	☐	50.000	51.351	650729.16	0.0589	P	0.5
4	☐	125.000	127.574	1558226.23	0.1462	P	0.5
5	☐	250.000	252.918	2978721.16	0.2897	P	1.8
6	☐	500.000	505.420	5418530.29	0.5789	P	1.4
7	☐	1000.000	996.171	10403088.77	1.1410	A	0.5
8	☐			3189.32	0.0003	P	6.6

$$y = 0.0011 * x + 5.0050E-005$$

$$R = 1.0000$$

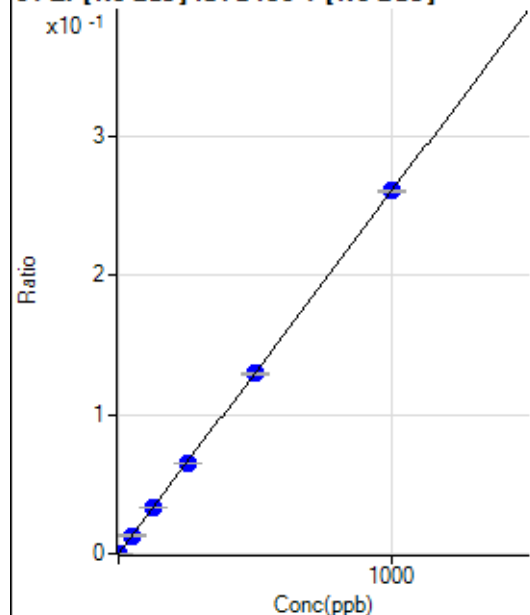
$$DL = 0.01636$$

$$BEC = 0.0437$$

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	127.78	0.0000	P	23.6
2	☐	1.000	0.948	2855.91	0.0003	P	4.1
3	☐	50.000	50.329	145004.87	0.0131	P	1.4
4	☐	125.000	126.272	350659.95	0.0329	P	1.0
5	☐	250.000	248.688	665927.13	0.0648	P	1.5
6	☐	500.000	497.774	1213315.46	0.1296	P	0.7
7	☐	1000.000	1001.266	2377267.33	0.2607	P	0.4
8	☐			613.92	0.0001	P	16.0

$$y = 2.6039E-004 * x + 1.1633E-005$$

$$R = 1.0000$$

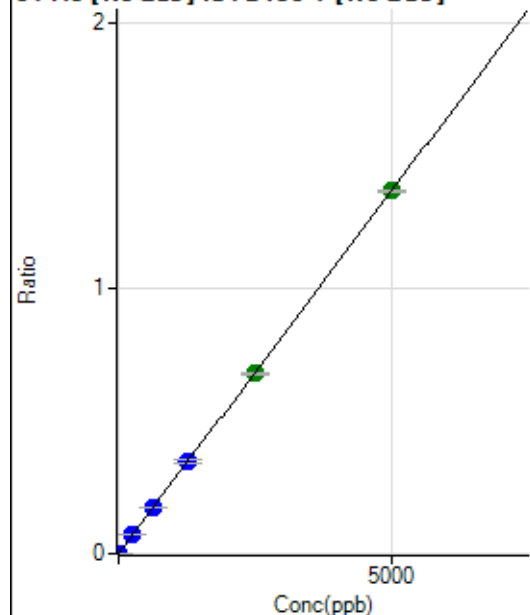
$$DL = 0.03167$$

$$BEC = 0.04468$$

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	208.34	0.0000	P	11.0
2	☐	5.000	5.017	15347.49	0.0014	P	2.5
3	☐	250.000	256.476	774679.74	0.0701	P	0.6
4	☐	625.000	640.581	1865569.05	0.1750	P	0.8
5	☐	1250.000	1270.680	3568530.16	0.3471	P	2.3
6	☐	2500.000	2484.787	6352666.20	0.6787	A	1.5
7	☐	5000.000	5000.165	12453104.19	1.3658	A	0.3
8	☐			3383.83	0.0004	P	12.1

$$y = 2.7315\text{E-}004 * x + 1.8957\text{E-}005$$

$$R = 1.0000$$

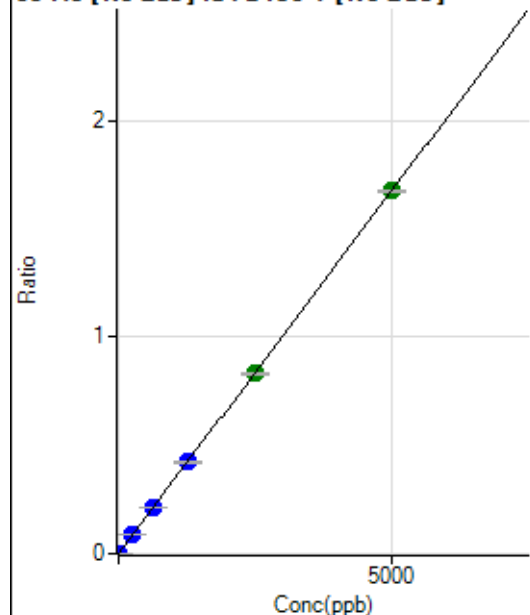
$$DL = 0.023$$

$$BEC = 0.0694$$

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	27.78	0.0000	P	44.6
2	☐	5.000	5.177	19171.62	0.0017	P	2.1
3	☐	250.000	255.325	944886.13	0.0855	P	0.7
4	☐	625.000	641.014	2287603.33	0.2146	P	0.6
5	☐	1250.000	1265.481	4355448.75	0.4236	P	1.6
6	☐	2500.000	2483.860	7782548.35	0.8315	A	0.7
7	☐	5000.000	5001.932	15266498.08	1.6744	A	0.4
8	☐			3989.55	0.0004	P	3.2

$$y = 3.3474\text{E-}004 * x + 2.5172\text{E-}006$$

$$R = 1.0000$$

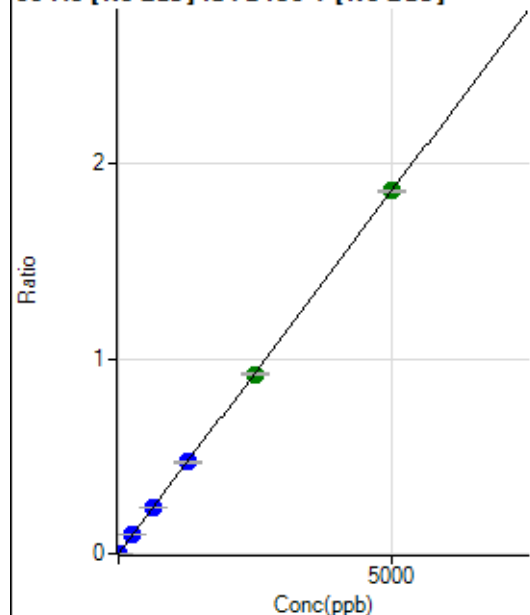
$$DL = 0.01005$$

$$BEC = 0.00752$$

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	58.33	0.0000	P	27.4
2	☐	5.000	5.233	21533.33	0.0019	P	2.1
3	☐	250.000	255.402	1049048.69	0.0949	P	0.4
4	☐	625.000	642.708	2545705.89	0.2388	P	0.3
5	☐	1250.000	1267.898	4843221.07	0.4711	P	1.7
6	☐	2500.000	2477.795	8616403.75	0.9206	A	1.0
7	☐	5000.000	5004.144	16951506.28	1.8592	A	0.3
8	☐			5270.57	0.0006	P	5.5

$$y = 3.7152E-004 * x + 5.2936E-006$$

$$R = 1.0000$$

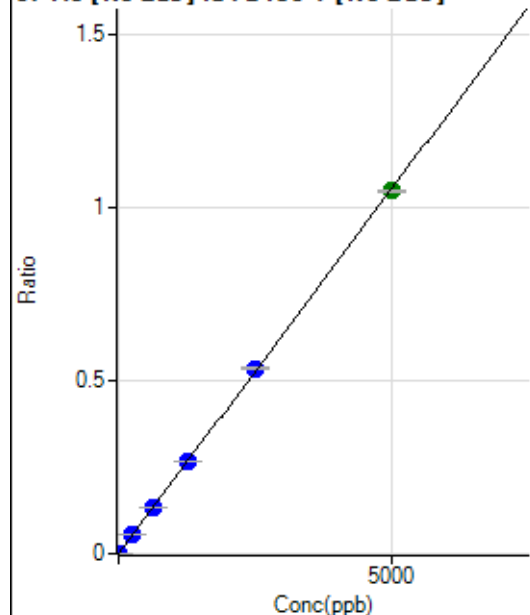
$$DL = 0.01169$$

$$BEC = 0.01425$$

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	11.11	0.0000	P	42.0
2	☐	5.000	4.918	11446.52	0.0010	P	0.2
3	☐	250.000	254.385	591828.43	0.0535	P	0.9
4	☐	625.000	641.977	1440316.97	0.1351	P	0.5
5	☐	1250.000	1263.019	2732840.62	0.2658	P	1.6
6	☐	2500.000	2536.793	4996882.62	0.5339	P	1.0
7	☐	5000.000	4976.007	9547842.92	1.0472	A	0.8
8	☐			2536.42	0.0003	P	2.8

$$y = 2.1045E-004 * x + 1.0072E-006$$

$$R = 1.0000$$

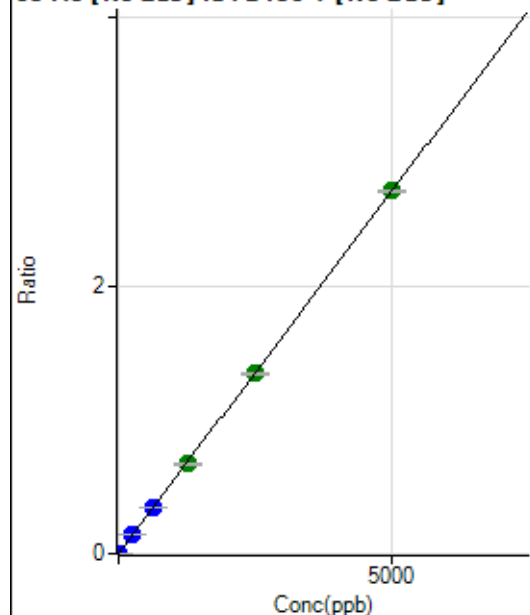
$$DL = 0.006031$$

$$BEC = 0.004786$$

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	30.56	0.0000	P	32.6
2	☐	5.000	5.114	30555.67	0.0028	P	1.5
3	☐	250.000	255.970	1528766.23	0.1383	P	0.3
4	☐	625.000	644.925	3714432.59	0.3484	P	0.6
5	☐	1250.000	1234.964	6859728.80	0.6672	A	1.6
6	☐	2500.000	2482.870	12554483.70	1.3413	A	1.2
7	☐	5000.000	5009.534	24675360.27	2.7063	A	0.8
8	☐			6284.88	0.0007	P	7.1

$$y = 5.4023\text{E-}004 * x + 2.7853\text{E-}006$$

$$R = 1.0000$$

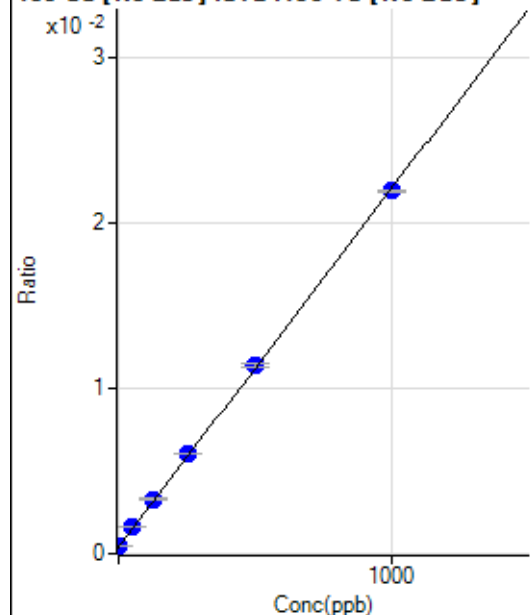
$$DL = 0.005043$$

$$BEC = 0.005156$$

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	4134.04	0.0004	P	1.8
2	☐	1.000	2.581	4784.28	0.0005	P	9.9
3	☐	50.000	55.901	16134.58	0.0016	P	3.6
4	☐	125.000	133.094	32281.63	0.0033	P	2.2
5	☐	250.000	259.598	57912.70	0.0061	P	0.6
6	☐	500.000	506.550	103410.95	0.0114	P	1.8
7	☐	1000.000	993.017	196217.77	0.0219	P	0.9
8	☐			3742.27	0.0004	P	6.5

$$y = 2.1659\text{E-}005 * x + 4.2821\text{E-}004$$

$$R = 0.9999$$

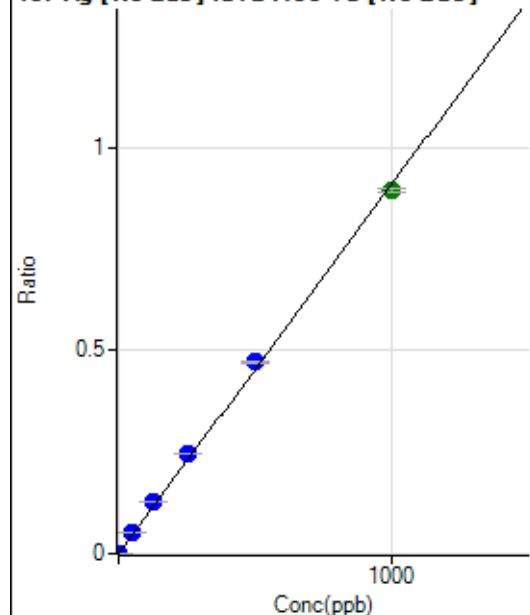
$$DL = 1.093$$

$$BEC = 19.77$$

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	197.23	0.0000	P	48.9
2	☐	1.000	1.098	10073.29	0.0010	P	4.4
3	☐	50.000	57.089	511021.36	0.0519	P	0.3
4	☐	125.000	140.252	1243231.08	0.1275	P	1.6
5	☐	250.000	270.347	2352204.31	0.2458	P	0.7
6	☐	500.000	518.980	4279317.89	0.4718	P	0.7
7	☐	1000.000	983.162	7993988.72	0.8937	A	1.1
8	☐			2027.98	0.0002	P	6.0

$$y = 9.0899\text{E-}004 * x + 2.0380\text{E-}005$$

$$R = 0.9994$$

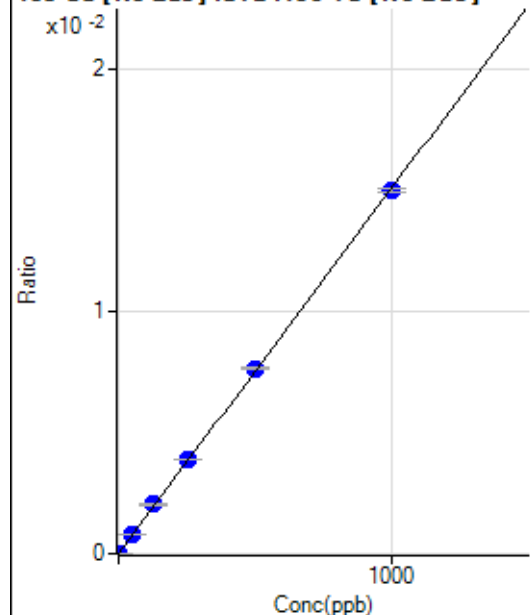
$$DL = 0.03286$$

$$BEC = 0.02242$$

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	20.83	0.0000	P	1.1
2	☐	1.000	1.135	190.28	0.0000	P	14.8
3	☐	50.000	53.344	7928.69	0.0008	P	1.6
4	☐	125.000	134.223	19729.11	0.0020	P	1.2
5	☐	250.000	257.782	37174.93	0.0039	P	0.5
6	☐	500.000	507.197	69296.92	0.0076	P	1.1
7	☐	1000.000	993.135	133787.54	0.0150	P	1.1
8	☐			184.73	0.0000	P	2.7

$$y = 1.5058\text{E-}005 * x + 2.1576\text{E-}006$$

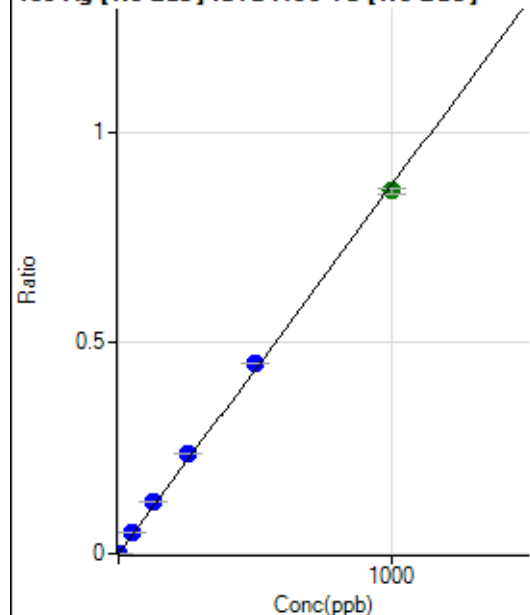
$$R = 0.9999$$

$$DL = 0.004806$$

$$BEC = 0.1433$$

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	186.12	0.0000	P	15.6
2	☐	1.000	1.117	9828.64	0.0010	P	5.1
3	☐	50.000	57.244	492171.40	0.0500	P	0.4
4	☐	125.000	139.026	1183740.54	0.1214	P	0.8
5	☐	250.000	270.148	2257594.15	0.2359	P	0.9
6	☐	500.000	515.849	4085485.07	0.4504	P	0.6
7	☐	1000.000	984.923	7691794.36	0.8599	A	1.5
8	☐			1975.20	0.0002	P	10.1

$$y = 8.7309\text{E-}004 * x + 1.9276\text{E-}005$$

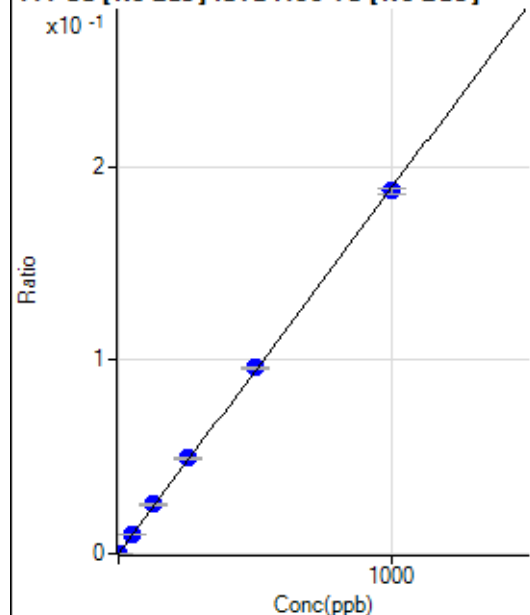
$$R = 0.9995$$

$$DL = 0.01031$$

$$BEC = 0.02208$$

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	833.07	0.0001	P	2.2
2	☐	1.000	1.256	3196.11	0.0003	P	4.5
3	☐	50.000	54.560	102224.62	0.0104	P	0.4
4	☐	125.000	134.348	248096.53	0.0254	P	1.3
5	☐	250.000	260.319	471088.42	0.0492	P	1.4
6	☐	500.000	507.673	870001.94	0.0959	P	0.2
7	☐	1000.000	992.187	1675907.57	0.1874	P	1.3
8	☐			1199.72	0.0001	P	11.3

$$y = 1.8875\text{E-}004 * x + 8.6287\text{E-}005$$

$$R = 0.9999$$

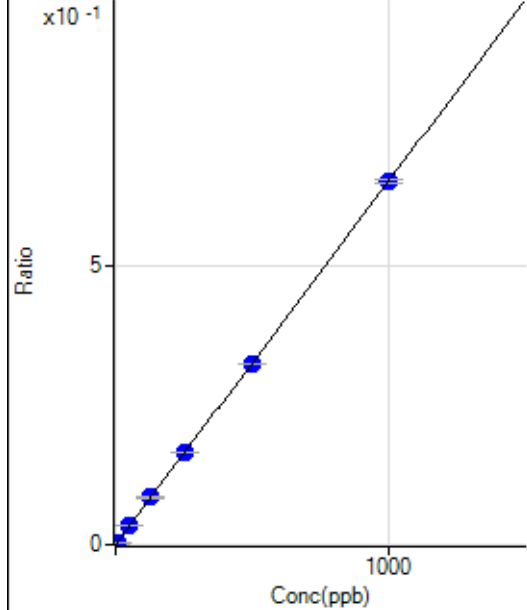
$$DL = 0.03043$$

$$BEC = 0.4571$$

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	1038.96	0.0001	P	11.6
2	☐	5.000	5.050	33646.42	0.0034	P	2.2
3	☐	50.000	52.628	339164.25	0.0345	P	0.8
4	☐	125.000	129.752	826784.91	0.0848	P	0.9
5	☐	250.000	254.515	1590866.36	0.1662	P	1.0
6	☐	500.000	499.066	2955569.62	0.3258	P	0.2
7	☐	1000.000	998.613	5830835.59	0.6519	P	1.0
8	☐			2639.21	0.0003	P	6.2

$$y = 6.5267\text{E-}004 * x + 1.0752\text{E-}004$$

$$R = 1.0000$$

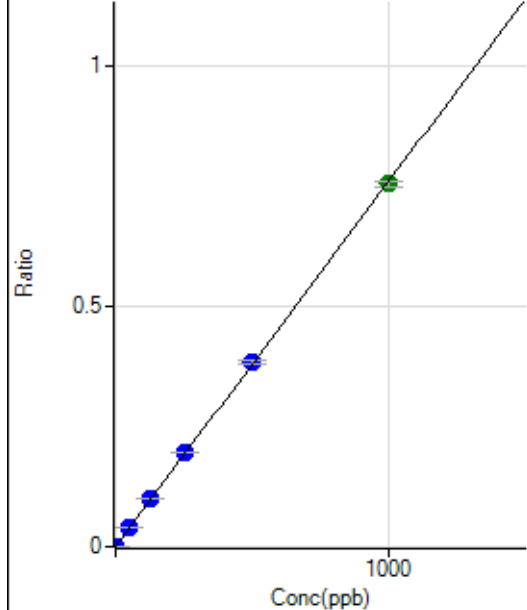
$$DL = 0.05727$$

$$BEC = 0.1647$$

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	108.34	0.0000	P	15.3
2	☐	2.000	2.021	15300.37	0.0015	P	0.4
3	☐	50.000	53.156	397735.39	0.0404	P	1.6
4	☐	125.000	132.193	979645.58	0.1005	P	1.7
5	☐	250.000	258.522	1880456.36	0.1965	P	1.3
6	☐	500.000	506.012	3488233.63	0.3846	P	1.3
7	☐	1000.000	993.807	6755565.69	0.7553	A	1.7
8	☐			3884.00	0.0004	P	4.2

$$y = 7.5998\text{E-}004 * x + 1.1222\text{E-}005$$

$$R = 0.9999$$

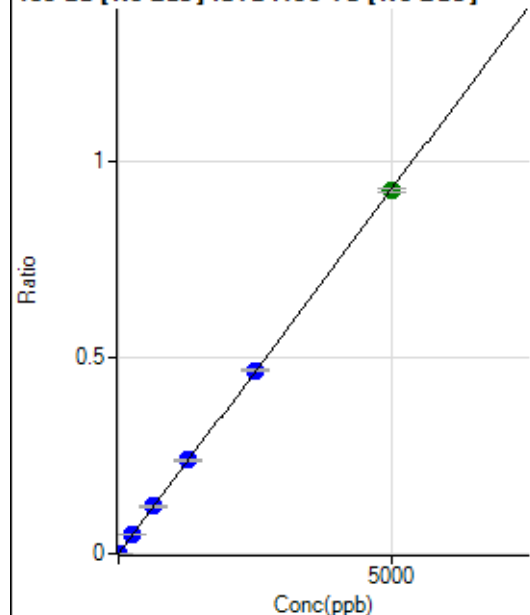
$$DL = 0.006792$$

$$BEC = 0.01477$$

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	27.78	0.0000	P	86.6
2	☐	10.000	10.550	19444.59	0.0020	P	0.7
3	☐	250.000	264.762	485115.19	0.0493	P	0.4
4	☐	625.000	648.331	1176610.69	0.1207	P	1.5
5	☐	1250.000	1283.537	2286500.31	0.2389	P	1.1
6	☐	2500.000	2516.361	4248437.73	0.4684	P	0.5
7	☐	5000.000	4979.780	8290749.14	0.9269	A	0.9
8	☐			3239.35	0.0004	P	1.4

$$y = 1.8613E-004 * x + 2.8866E-006$$

$$R = 1.0000$$

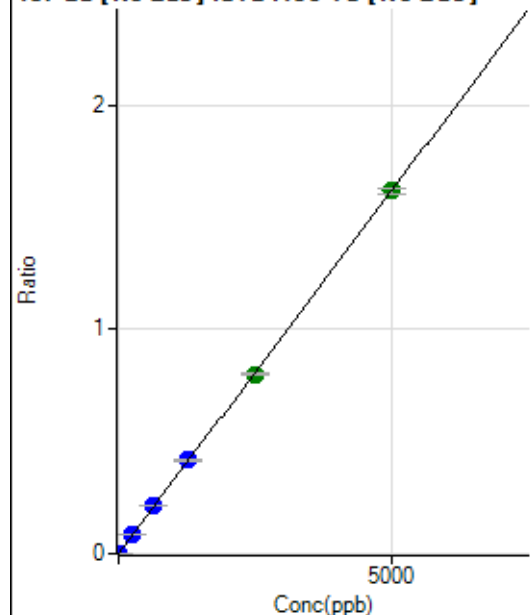
$$DL = 0.0403$$

$$BEC = 0.01551$$

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	44.45	0.0000	P	12.0
2	☐	10.000	10.427	33393.40	0.0034	P	0.9
3	☐	250.000	266.749	849434.88	0.0863	P	0.5
4	☐	625.000	652.819	2059163.98	0.2112	P	0.9
5	☐	1250.000	1287.627	3986470.71	0.4165	P	1.2
6	☐	2500.000	2472.375	7254596.78	0.7998	A	0.5
7	☐	5000.000	5000.090	14467649.11	1.6175	A	1.3
8	☐			5562.37	0.0006	P	3.5

$$y = 3.2348E-004 * x + 4.6075E-006$$

$$R = 0.9999$$

$$DL = 0.005127$$

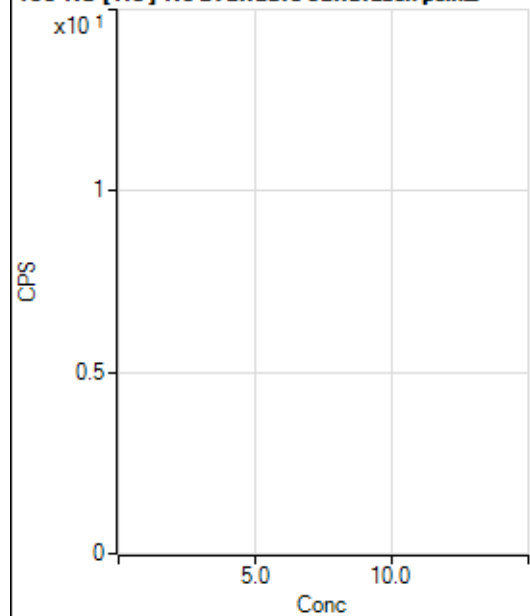
$$BEC = 0.01424$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

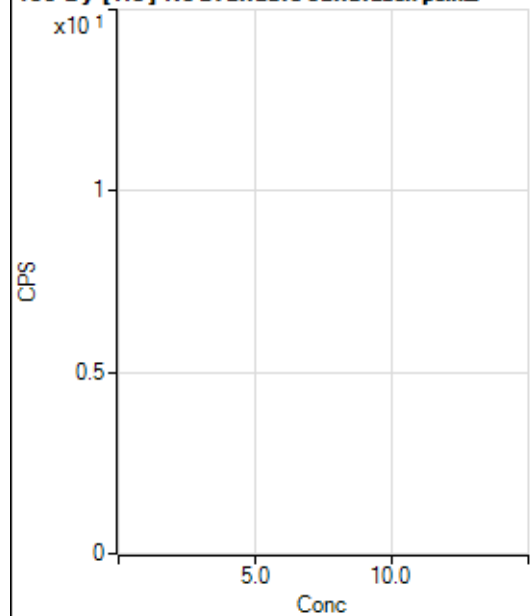
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	173.2
2	☐			6.67		P	173.2
3	☐			55.56		P	25.0
4	☐			113.34		P	35.3
5	☐			253.34		P	18.4
6	☐			437.79		P	32.6
7	☐			662.25		P	10.1
8	☐			37.78		P	27.0

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.2
2	☐			0.00		P	
3	☐			13.34		P	43.3
4	☐			30.00		P	48.4
5	☐			74.45		P	18.1
6	☐			114.44		P	12.1
7	☐			95.56		P	2.0
8	☐			16.67		P	52.9

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	43.3
2	☐			8.33		P	100.0
3	☐			27.78		P	62.5
4	☐			83.34		P	10.0
5	☐			161.12		P	7.9
6	☐			286.12		P	8.9
7	☐			511.14		P	10.0
8	☐			1386.22		P	9.1

156 Dy [He] No available calibration points

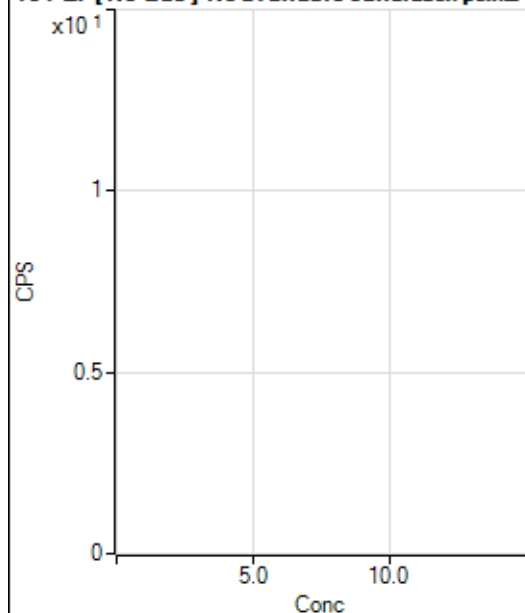
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.2
2	☐			2.22		P	173.2
3	☐			16.67		P	80.0
4	☐			63.33		P	50.2
5	☐			115.56		P	12.0
6	☐			203.34		P	13.1
7	☐			325.56		P	12.0
8	☐			891.15		P	13.5

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

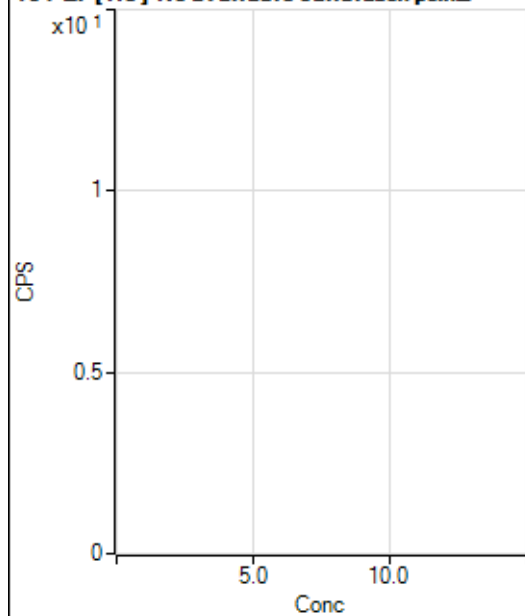
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			55.56		P	60.6
2	☐			50.00		P	57.7
3	☐			83.34		P	34.6
4	☐			127.78		P	27.1
5	☐			194.45		P	19.3
6	☐			355.57		P	21.8
7	☐			383.35		P	8.7
8	☐			1433.45		P	4.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			117.78		P	8.6
2	☐			128.89		P	7.5
3	☐			122.22		P	21.9
4	☐			141.11		P	13.0
5	☐			177.78		P	2.9
6	☐			241.12		P	13.8
7	☐			344.45		P	9.4
8	☐			1150.06		P	10.0

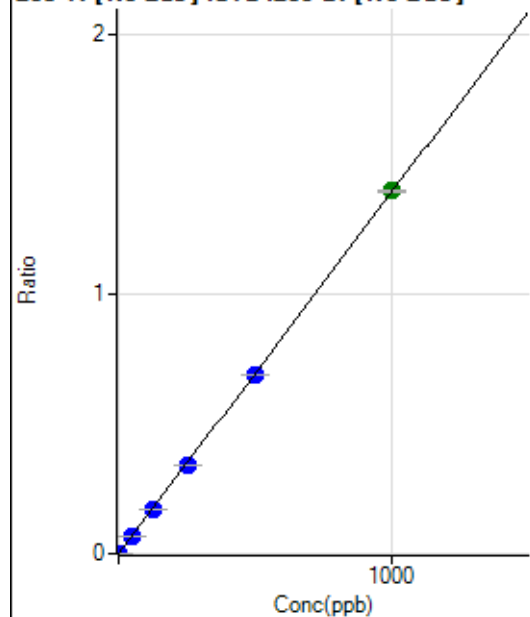
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	32.7
2	☐			80.56		P	29.9
3	☐			86.11		P	40.3
4	☐			72.22		P	53.3
5	☐			138.89		P	17.3
6	☐			108.34		P	27.7
7	☐			161.12		P	39.5
8	☐			275.01		P	15.7

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32.22		P	15.8
2	☐			48.89		P	27.6
3	☐			56.67		P	29.4
4	☐			54.45		P	12.7
5	☐			56.67		P	15.6
6	☐			88.89		P	22.6
7	☐			110.00		P	32.1
8	☐			171.11		P	14.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	102.78	0.0000	P	11.6
2	☐	1.000	0.971	9414.67	0.0014	P	2.6
3	☐	50.000	49.421	473253.11	0.0687	P	0.8
4	☐	125.000	122.547	1168189.77	0.1703	P	0.7
5	☐	250.000	244.523	2309669.73	0.3397	P	0.5
6	☐	500.000	494.623	4451696.50	0.6871	P	0.3
7	☐	1000.000	1004.393	8761292.55	1.3953	A	0.3
8	☐			3372.74	0.0006	P	11.8

$$y = 0.0014 * x + 1.5228E-005$$

$$R = 1.0000$$

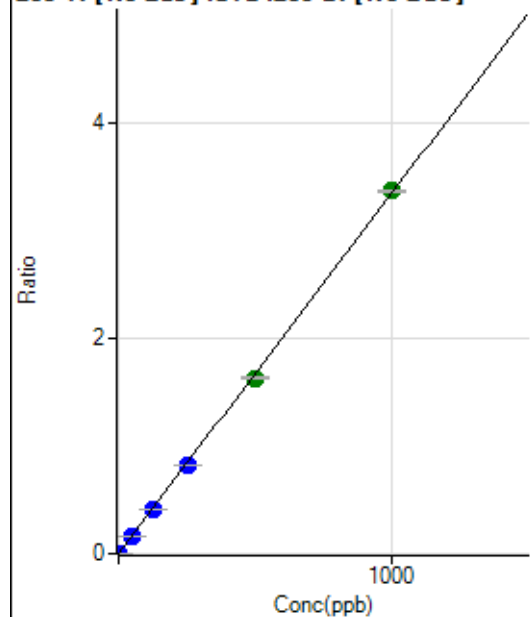
$$DL = 0.003819$$

$$BEC = 0.01096$$

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	216.67	0.0000	P	22.4
2	☐	1.000	0.946	22066.10	0.0032	P	1.0
3	☐	50.000	49.474	1141208.34	0.1656	P	1.2
4	☐	125.000	123.767	2842114.86	0.4142	P	0.6
5	☐	250.000	246.430	5607029.03	0.8247	P	1.4
6	☐	500.000	488.140	10583132.62	1.6335	A	0.4
7	☐	1000.000	1007.003	21160035.19	3.3698	A	0.3
8	☐			7663.57	0.0013	P	14.3

$$y = 0.0033 * x + 3.2088E-005$$

$$R = 0.9999$$

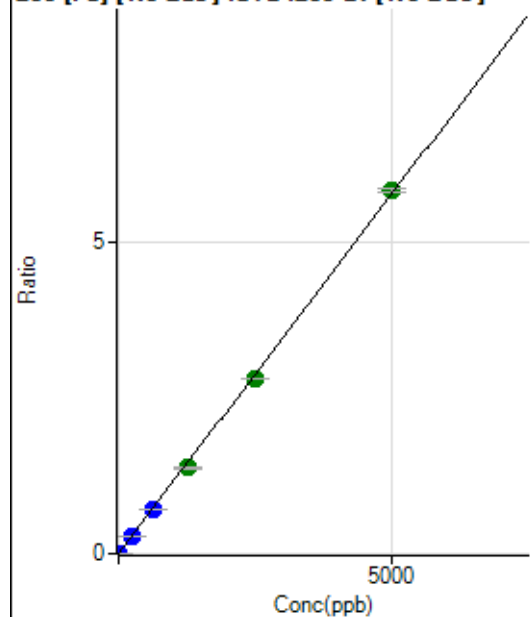
$$DL = 0.006431$$

$$BEC = 0.009589$$

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	507.43	0.0001	P	7.3
2	☐	1.000	0.947	8063.67	0.0012	P	3.3
3	☐	250.000	244.338	1944262.08	0.2821	P	1.2
4	☐	625.000	607.514	4812132.86	0.7013	P	0.9
5	☐	1250.000	1197.766	9400545.35	1.3826	A	1.9
6	☐	2500.000	2432.820	18194108.51	2.8082	A	0.2
7	☐	5000.000	5049.117	36596396.65	5.8282	A	0.9
8	☐			10726.69	0.0019	P	2.9

$$y = 0.0012 * x + 7.5254E-005$$

$$R = 0.9998$$

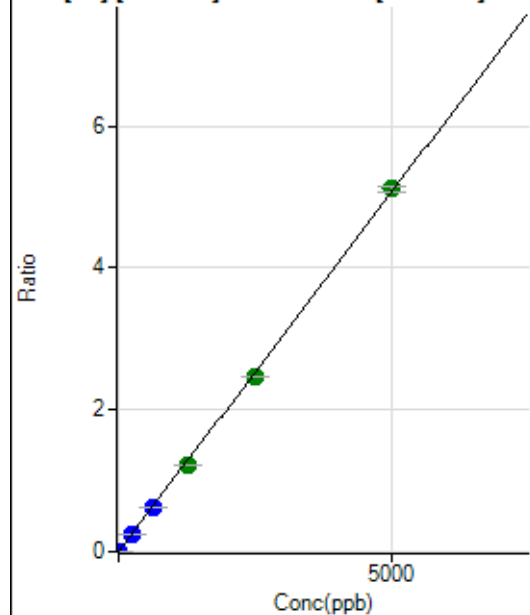
$$DL = 0.01432$$

$$BEC = 0.0652$$

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	462.98	0.0001	P	5.2
2	☐	1.000	0.956	7157.61	0.0010	P	4.0
3	☐	250.000	241.839	1689886.97	0.2452	P	0.7
4	☐	625.000	605.479	4211595.78	0.6138	P	0.4
5	☐	1250.000	1207.153	8319806.26	1.2236	A	0.7
6	☐	2500.000	2432.671	15975521.77	2.4658	A	0.1
7	☐	5000.000	5047.224	32123901.18	5.1159	A	1.3
8	☐			9724.07	0.0017	P	3.5

$$y = 0.0010 * x + 6.8620E-005$$

$$R = 0.9998$$

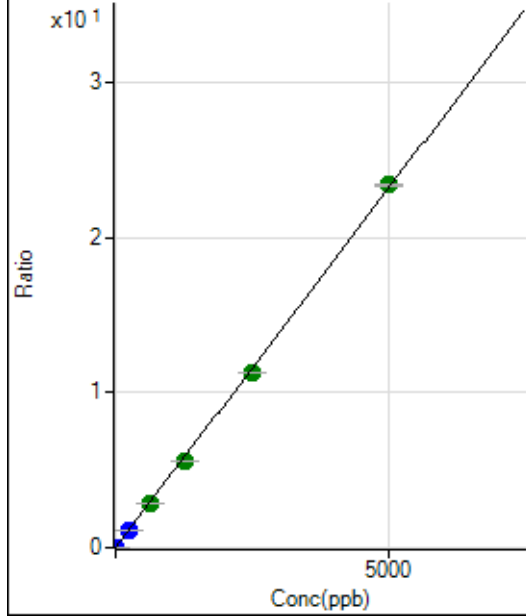
$$DL = 0.01056$$

$$BEC = 0.0677$$

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	2105.66	0.0003	P	3.5
2	☐	1.000	0.956	32751.56	0.0047	P	1.5
3	☐	250.000	243.884	7796752.16	1.1313	P	0.8
4	☐	625.000	605.535	19270542.65	2.8084	A	0.4
5	☐	1250.000	1202.987	37932647.20	5.5790	A	1.3
6	☐	2500.000	2429.559	72997338.09	11.2671	A	0.2
7	☐	5000.000	5049.713	147046460.6	23.4177	A	0.6
8	☐			43576.66	0.0075	P	2.0

$$y = 0.0046 * x + 3.1220E-004$$

$$R = 0.9998$$

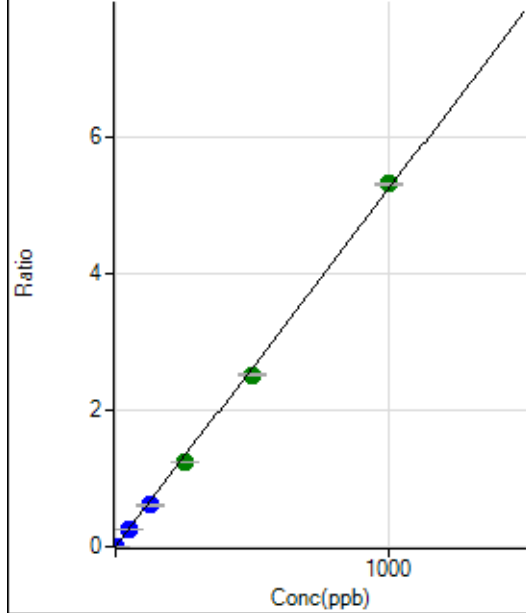
$$DL = 0.007127$$

$$BEC = 0.06732$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	153.71	0.0000	P	17.6
2	☐	1.000	0.000	150.00	0.0000	P	18.1
3	☐	50.000	46.002	1663168.47	0.2413	P	0.7
4	☐	125.000	115.788	4167632.24	0.6074	P	0.7
5	☐	250.000	235.601	8402817.84	1.2358	A	0.8
6	☐	500.000	479.972	16311128.72	2.5177	A	0.7
7	☐	1000.000	1014.966	33431181.30	5.3239	A	0.4
8	☐			2767.01	0.0005	P	11.4

$$y = 0.0052 * x + 2.2781E-005$$

$$R = 0.9996$$

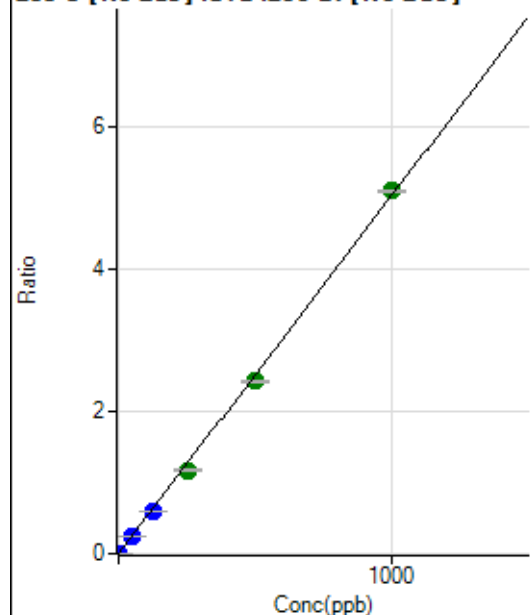
$$DL = 0.002291$$

$$BEC = 0.004343$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8.33	0.0000	P	173.2
2	☐	1.000	0.888	30887.07	0.0045	P	0.6
3	☐	50.000	46.488	1614061.31	0.2342	P	1.0
4	☐	125.000	117.602	4065438.76	0.5925	P	0.2
5	☐	250.000	233.380	7994238.11	1.1758	A	0.8
6	☐	500.000	483.047	15766060.25	2.4336	A	1.0
7	☐	1000.000	1013.732	32070022.25	5.1071	A	0.6
8	☐			3342.20	0.0006	P	4.4

$$y = 0.0050 * x + 1.2383E-006$$

$$R = 0.9996$$

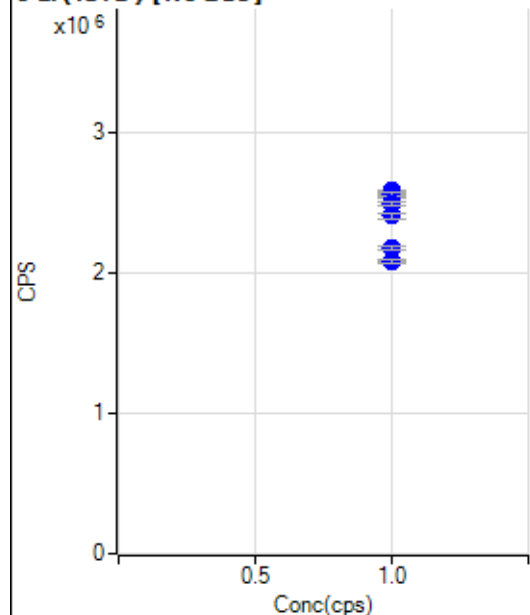
$$DL = 0.001277$$

$$BEC = 0.0002458$$

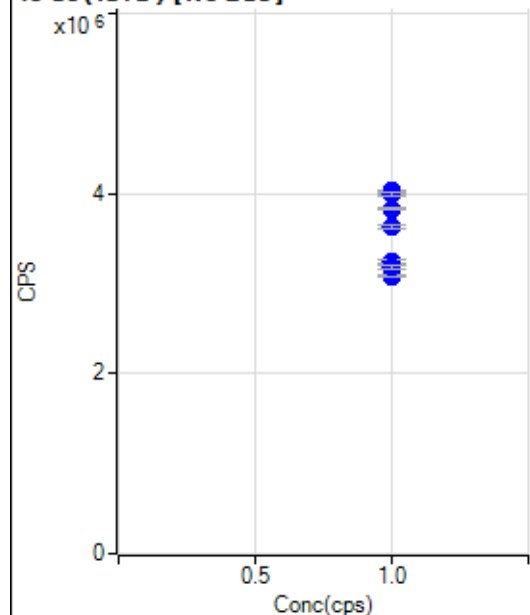
Weight: <None>

Min Conc: 0

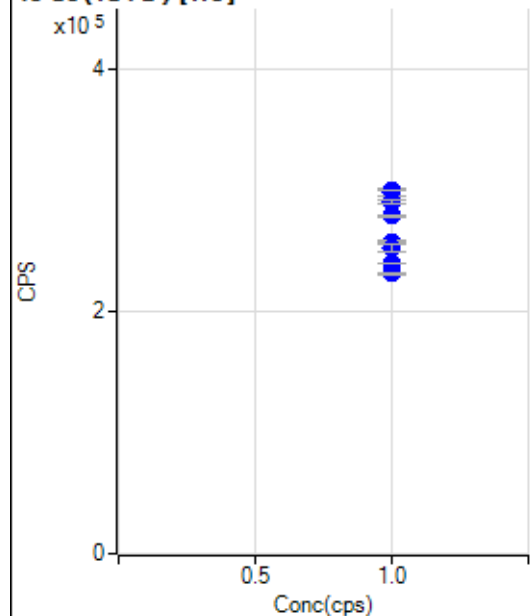
6 Li (ISTD) [No Gas]



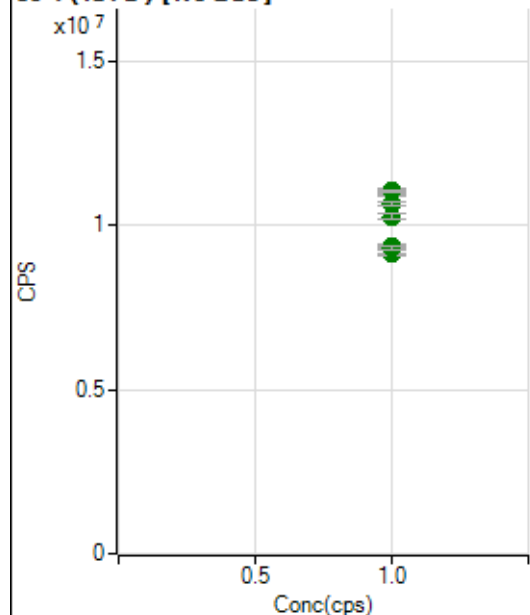
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2556193.31		P	0.9
2	☐	1.000		2590124.72		P	0.5
3	☐	1.000		2565026.87		P	1.2
4	☐	1.000		2495856.67		P	1.1
5	☐	1.000		2410485.07		P	1.5
6	☐	1.000		2178476.41		P	1.4
7	☐	1.000		2087196.86		P	0.4
8	☐	1.000		2088870.91		P	1.5

45 Sc (ISTD) [No Gas]

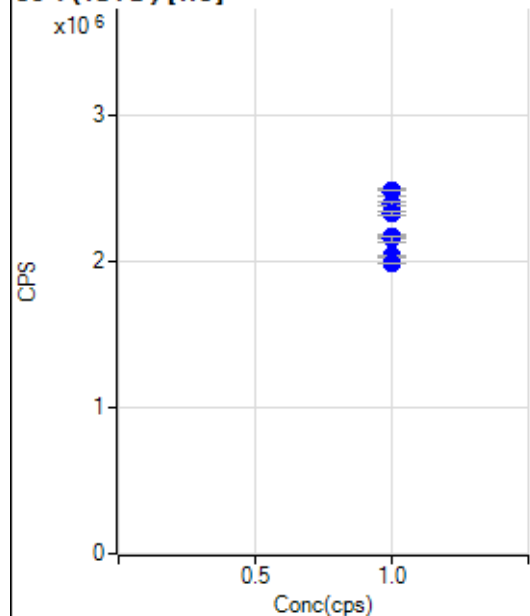
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4004901.61		P	0.8
2	☐	1.000		4026870.18		P	0.3
3	☐	1.000		3989535.53		P	0.9
4	☐	1.000		3828231.58		P	0.4
5	☐	1.000		3627839.18		P	0.7
6	☐	1.000		3240486.62		P	1.1
7	☐	1.000		3077958.25		P	0.4
8	☐	1.000		3183571.30		P	1.3

45 Sc (ISTD) [He]

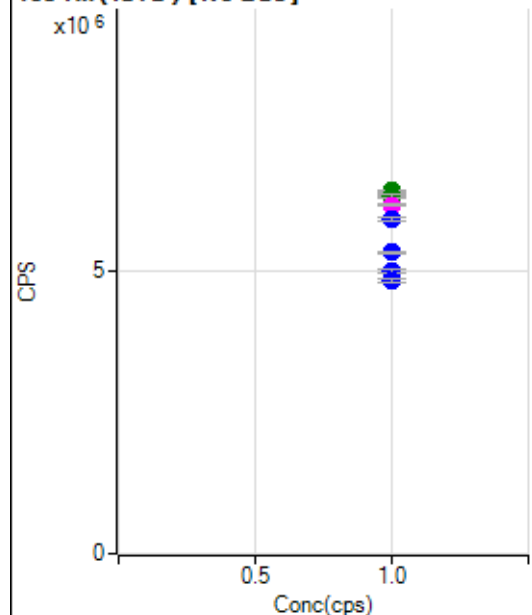
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		298653.25		P	1.8
2	☐	1.000		299492.33		P	0.1
3	☐	1.000		290654.81		P	1.1
4	☐	1.000		278731.30		P	0.1
5	☐	1.000		257541.61		P	0.9
6	☐	1.000		239375.96		P	0.3
7	☐	1.000		231044.22		P	0.6
8	☐	1.000		252034.81		P	2.4

89 Y (ISTD) [No Gas]

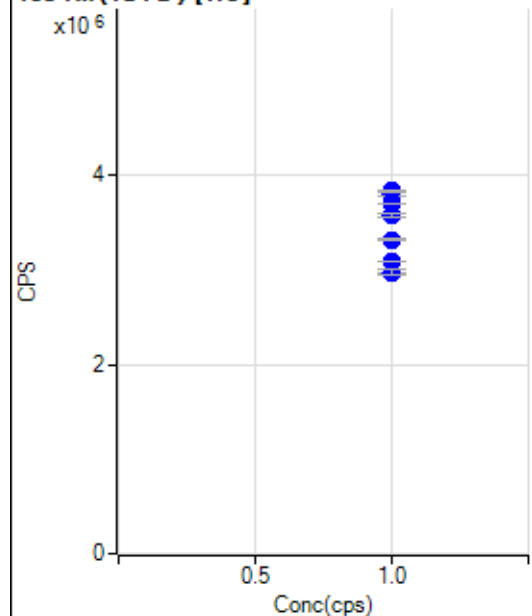
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10994568.73		A	1.3
2	☐	1.000		11048273.03		A	1.4
3	☐	1.000		11055206.64		A	0.6
4	☐	1.000		10661170.88		A	0.7
5	☐	1.000		10283160.19		A	1.4
6	☐	1.000		9360553.89		A	1.1
7	☐	1.000		9117817.23		A	0.4
8	☐	1.000		9323456.04		A	0.8

89 Y (ISTD) [He]

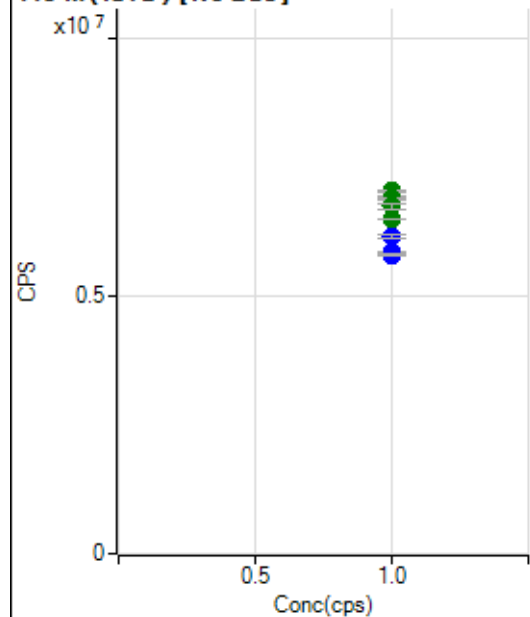
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2466007.71		P	1.9
2	☐	1.000		2477232.01		P	0.0
3	☐	1.000		2389153.04		P	0.9
4	☐	1.000		2323604.27		P	0.7
5	☐	1.000		2164620.64		P	0.9
6	☐	1.000		2029598.46		P	0.6
7	☐	1.000		1984133.79		P	0.2
8	☐	1.000		2147452.50		P	2.2

103 Rh (ISTD) [No Gas]

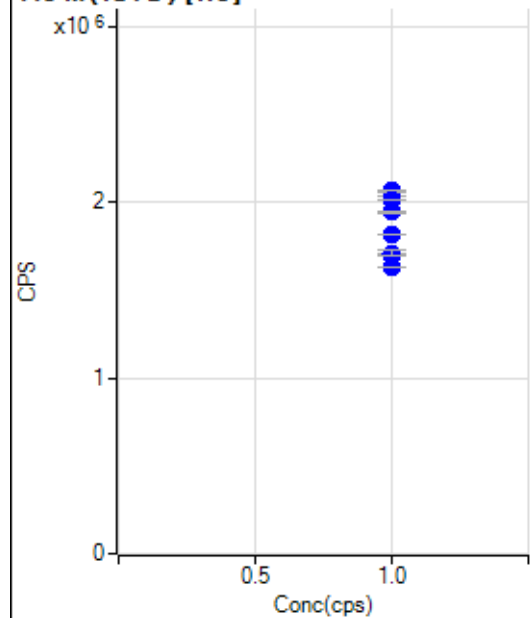
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6321774.63		A	0.3
2	☐	1.000		6417119.98		A	0.3
3	☐	1.000		6326559.63		A	1.1
4	☐	1.000		6160283.24		M	0.6
5	☐	1.000		5909192.69		P	0.9
6	☐	1.000		5330608.91		P	0.8
7	☐	1.000		4998069.75		P	0.8
8	☐	1.000		4830048.12		P	0.9

103 Rh (ISTD) [He]

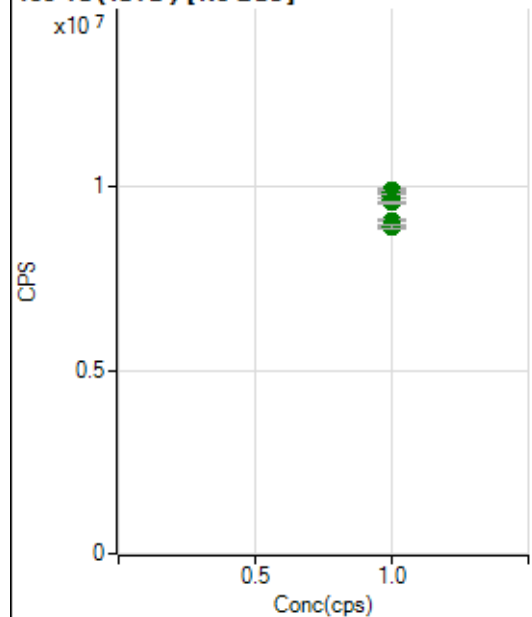
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3797407.58		P	1.1
2	☐	1.000		3834078.94		P	0.4
3	☐	1.000		3702275.67		P	0.2
4	☐	1.000		3577348.98		P	0.7
5	☐	1.000		3318838.56		P	0.6
6	☐	1.000		3090201.24		P	0.2
7	☐	1.000		2971189.64		P	0.4
8	☐	1.000		2971589.30		P	1.8

115 In (ISTD) [No Gas]

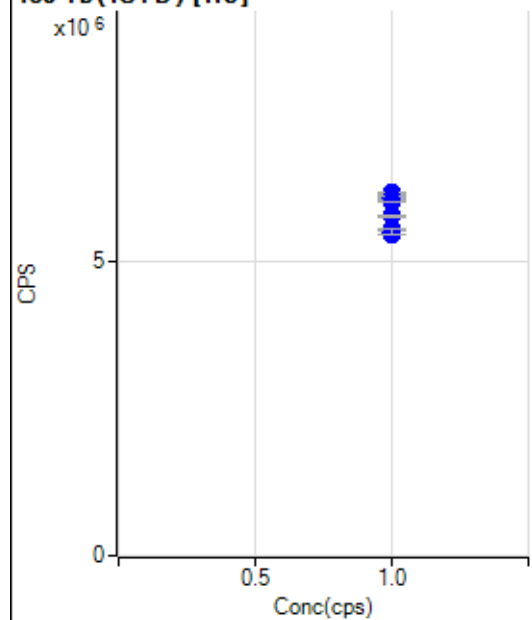
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6941103.97		A	0.4
2	☐	1.000		7036088.10		A	0.5
3	☐	1.000		6886504.87		A	0.5
4	☐	1.000		6735100.12		A	1.5
5	☐	1.000		6491415.55		A	0.5
6	☐	1.000		6151978.98		P	1.1
7	☐	1.000		5847568.59		P	0.3
8	☐	1.000		5781328.74		P	0.6

115 In (ISTD) [He]

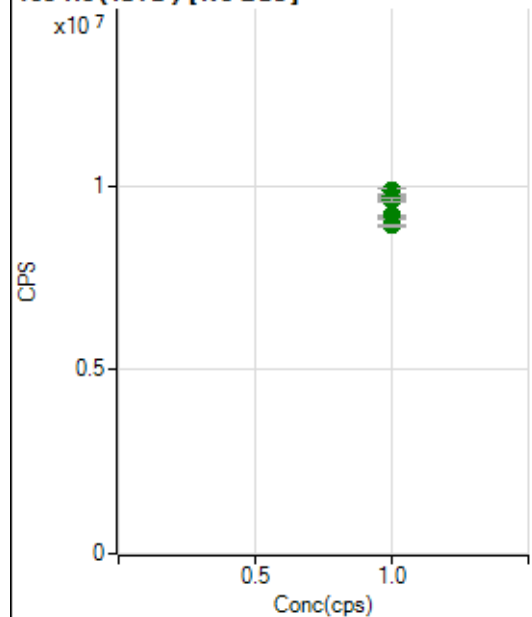
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2056799.75		P	1.6
2	☐	1.000		2066152.25		P	0.2
3	☐	1.000		2016775.55		P	0.3
4	☐	1.000		1946147.28		P	0.6
5	☐	1.000		1817726.34		P	0.5
6	☐	1.000		1702143.78		P	0.1
7	☐	1.000		1629439.96		P	0.3
8	☐	1.000		1711707.28		P	2.2

159 Tb (ISTD) [No Gas]

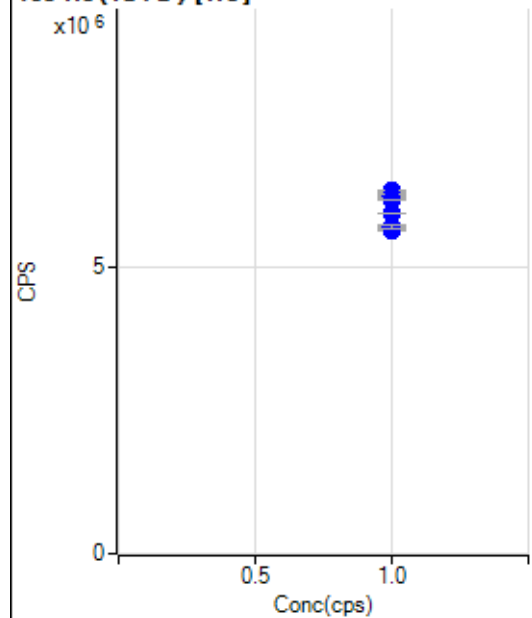
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9655252.91		A	1.1
2	☐	1.000		9887594.64		A	1.1
3	☐	1.000		9843793.26		A	0.8
4	☐	1.000		9751197.49		A	1.0
5	☐	1.000		9571381.31		A	0.9
6	☐	1.000		9070926.60		A	0.5
7	☐	1.000		8945376.60		A	0.9
8	☐	1.000		8915988.34		A	1.1

159 Tb (ISTD) [He]

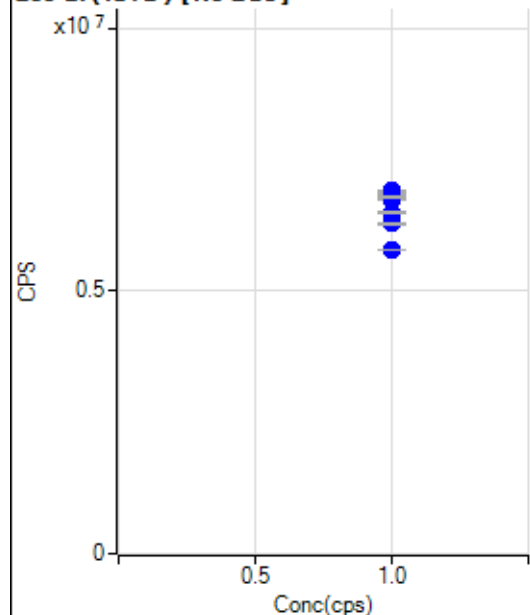
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6082507.55		P	0.3
2	☐	1.000		6146183.03		P	0.3
3	☐	1.000		6063801.92		P	0.8
4	☐	1.000		5999060.05		P	0.3
5	☐	1.000		5755908.32		P	0.5
6	☐	1.000		5522392.21		P	0.7
7	☐	1.000		5439694.16		P	0.4
8	☐	1.000		5488819.50		P	1.5

165 Ho (ISTD) [No Gas]

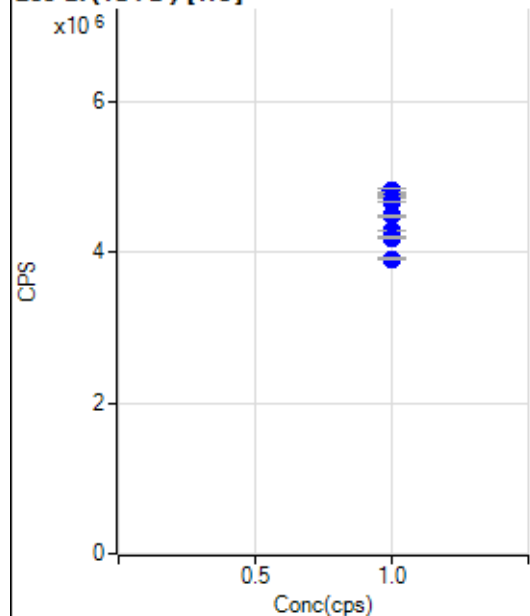
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9655748.47		A	0.5
2	☐	1.000		9860255.96		A	1.4
3	☐	1.000		9729671.87		A	0.1
4	☐	1.000		9724555.55		A	1.0
5	☐	1.000		9618232.01		A	1.0
6	☐	1.000		9174574.65		A	0.7
7	☐	1.000		9084807.78		A	0.2
8	☐	1.000		8928081.05		A	0.7

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6228941.15		P	0.2
2	☐	1.000		6323429.70		P	0.7
3	☐	1.000		6235037.76		P	0.7
4	☐	1.000		6170025.04		P	0.2
5	☐	1.000		5932980.68		P	0.5
6	☐	1.000		5700569.36		P	0.3
7	☐	1.000		5645090.26		P	0.7
8	☐	1.000		5698765.33		P	1.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6745303.65		P	0.8
2	☐	1.000		6901176.01		P	0.4
3	☐	1.000		6891882.61		P	0.5
4	☐	1.000		6861901.98		P	0.9
5	☐	1.000		6799412.89		P	0.5
6	☐	1.000		6478803.72		P	0.5
7	☐	1.000		6279375.60		P	0.4
8	☐	1.000		5783319.15		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4751795.79		P	1.3
2	☐	1.000		4822090.31		P	1.1
3	☐	1.000		4740917.88		P	0.9
4	☐	1.000		4680289.90		P	0.1
5	☐	1.000		4486190.38		P	0.5
6	☐	1.000		4296098.90		P	0.3
7	☐	1.000		4203482.89		P	0.8
8	☐	1.000		3919617.62		P	1.0

US EPA Tune Check Sample Report

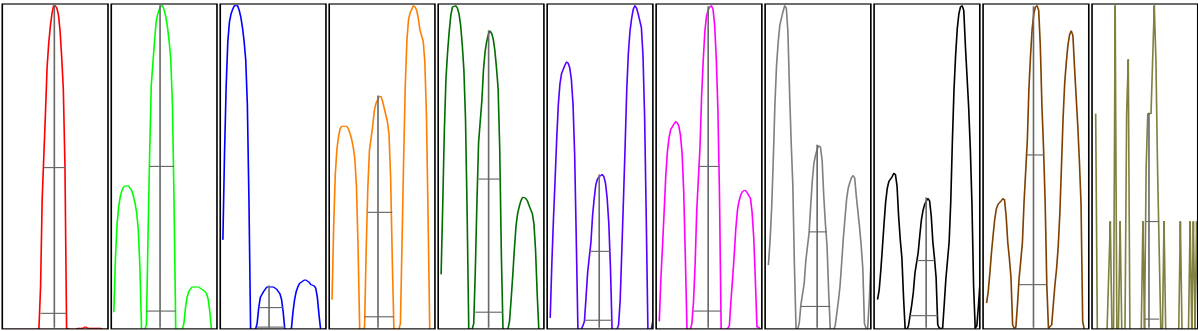
Batch Folder C:\Agilent\ICPMH\1\DATA\P7092121MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	7861	0.24	5.00	
24	73157	0.22	5.00	
25	9606	0.20	5.00	
26	11006	0.22	5.00	
59	17867	0.44	5.00	
113	11347	0.45	5.00	
115	36647	1.72	5.00	
206	17383	0.63	5.00	
207	15206	0.50	5.00	
208	36386	0.35	5.00	
220	0	38.03		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	7858	7870	7865	7831	7880
24	73386	73201	73183	73059	72954
25	9617	9592	9626	9581	9614
26	11019	10976	11031	11019	10983
59	17969	17891	17896	17785	17792
113	11394	11373	11378	11318	11271
115	37455	37134	36485	36192	35969
206	17195	17476	17434	17382	17428
207	15072	15259	15237	15232	15228
208	36256	36282	36554	36370	36469
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	13147	9.00	8.9 - 9.1		0.777	0.900	
24	110417	23.90	23.9 - 24.1		0.835	0.900	
25	14575	24.90	24.9 - 25.1		0.827	0.900	
26	16674	25.90	25.9 - 26.1		0.834	0.900	
59	29024	58.95	58.9 - 59.1		0.827	0.900	
113	19282	113.00	112.9 - 113.1		0.789	0.900	
115	62761	115.00	114.9 - 115.1		0.813	0.900	
206	32400	206.00	205.9 - 206.1		0.827	0.900	
207	27159	207.00	206.9 - 207.1		0.794	0.900	
208	66834	207.95	207.9 - 208.1		0.814	0.900	
220	0	220.15	-		0.443		

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.6	V	Deflect	13.4	V
Extract 2	-130.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-75	V	Cell Exit	-50	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	No		OctP Bias	-8.0	V	Energy Discrimination		5.0 V
He Flow	0.0	mL/min	OctP RF	150	V			

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5951	0.40	
89	35806	0.40	
205	20890	0.31	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5946	5929	5991	5941	5950
89	35641	35796	35882	35706	36006
205	20864	20864	20970	20808	20943

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.2	V	Deflect	1.6	V
Extract 2	-125.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-75	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	180	V			