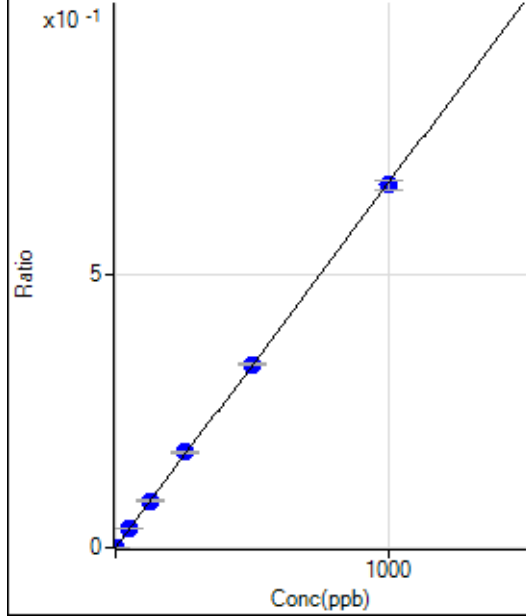


Calibration for 014ICSA.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7042823 MS.b\
 Analysis File: P7042823 MS.batch.bin
 DA Date-Time: 2023-04-28 16:23:40
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-04-28 13:24:29
2	005CALS.d	S02	2023-04-28 13:27:46
3	006CALS.d	S03	2023-04-28 13:31:04
4	007CALS.d	S04	2023-04-28 13:34:13
5	008CALS.d	S05	2023-04-28 13:37:13
6	009CALS.d	S06	2023-04-28 13:40:07
7	010CALS.d	S07	2023-04-28 13:42:58
8	011CALS.d	S08	2023-04-28 13:45:43

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	34.45	0.0000	P	38.6
2	☐	1.000	1.118	1132.27	0.0008	P	6.4
3	☐	50.000	52.606	51633.31	0.0351	P	1.1
4	☐	125.000	128.748	123701.00	0.0860	P	1.7
5	☐	250.000	262.636	244161.61	0.1754	P	1.3
6	☐	500.000	503.291	462960.98	0.3361	P	0.5
7	☐	1000.000	994.597	885882.71	0.6641	P	2.8
8	☐			452.23	0.0004	P	15.1

$$y = 6.6766\text{E-}004 * x + 2.3471\text{E-}005$$

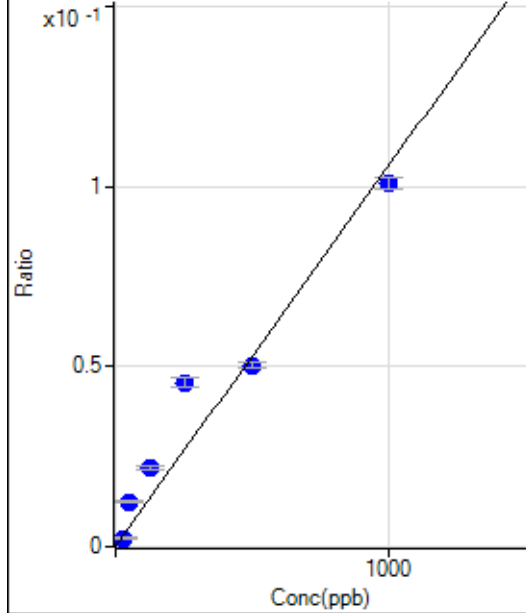
$$R = 0.9999$$

$$DL = 0.04066$$

$$BEC = 0.03515$$

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	144.45	0.0001	P	3.0
2	☐	25.000	21.199	3440.41	0.0023	P	6.5
3	☐	50.000	117.421	18363.20	0.0125	P	5.8
4	☐	125.000	207.686	31724.68	0.0220	P	4.1
5	☐	250.000	431.189	63552.74	0.0457	P	4.8
6	☐	500.000	476.417	69478.91	0.0504	P	3.1
7	☐	1000.000	952.883	134440.18	0.1008	P	3.1
8	☐			4095.03	0.0034	P	12.0

$$y = 1.0566\text{E-}004 * x + 9.8618\text{E-}005$$

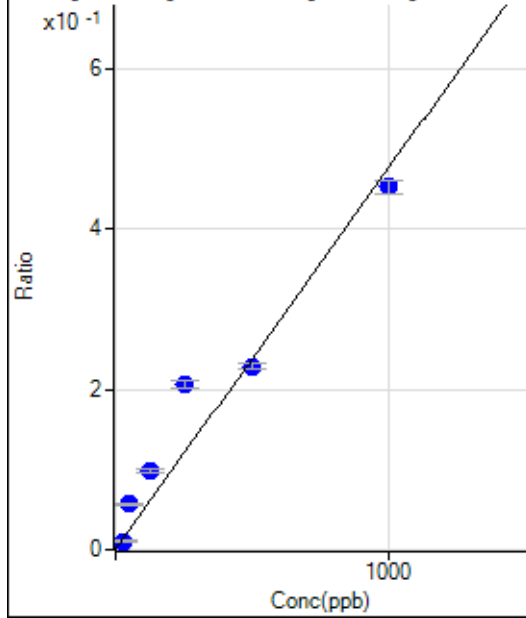
$$R = 0.9770$$

$$DL = 0.08509$$

$$BEC = 0.9334$$

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	624.46	0.0004	P	4.8
2	☐	25.000	21.455	15620.20	0.0106	P	4.5
3	☐	50.000	118.464	83254.32	0.0567	P	6.4
4	☐	125.000	205.637	141194.20	0.0981	P	3.8
5	☐	250.000	431.773	286096.33	0.2055	P	4.6
6	☐	500.000	480.754	315178.34	0.2288	P	3.1
7	☐	1000.000	950.765	603009.01	0.4521	P	4.1
8	☐			18065.20	0.0150	P	11.5

$$y = 4.7502\text{E-}004 * x + 4.2641\text{E-}004$$

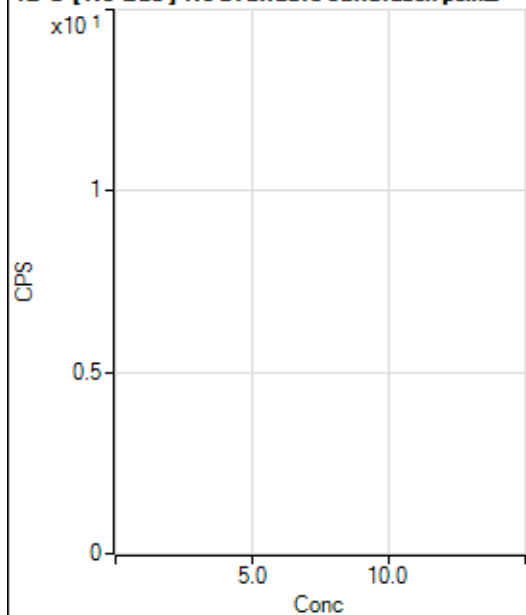
$$R = 0.9771$$

$$DL = 0.1298$$

$$BEC = 0.8977$$

Weight: <None>

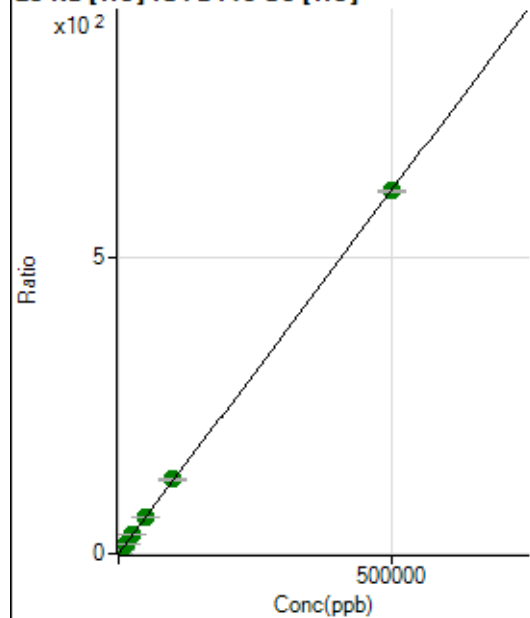
Min Conc: 0

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	5657.75	0.0207	P	2.0
2	☐	500.000	521.725	182543.19	0.6620	P	0.6
3	☐	5000.000	5418.022	1796591.61	6.6803	A	0.9
4	☐	12500.000	13191.875	4244501.15	16.2356	A	1.4
5	☐	25000.000	26207.332	8441265.36	32.2335	A	0.7
6	☐	50000.000	51345.646	16247077.54	63.1324	A	0.9
7	☐	100000.00	102266.16	31968201.19	125.7215	A	1.2
8	☐	500000.00	499330.33	138020029.0	613.7739	A	0.5

$$y = 0.0012 * x + 0.0207$$

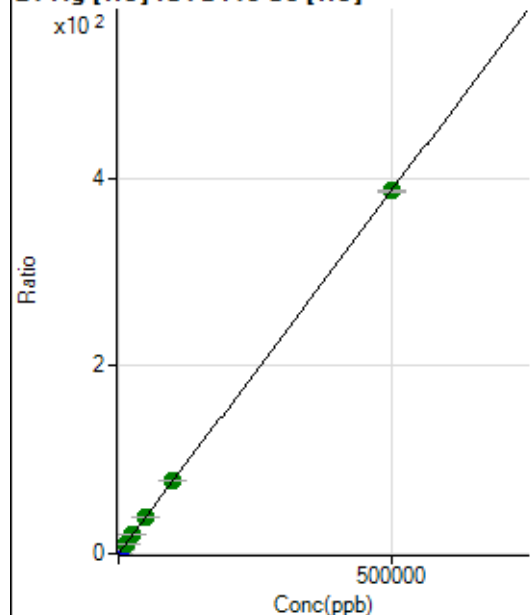
$$R = 1.0000$$

$$DL = 1.035$$

$$BEC = 16.86$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.56	0.0013	P	2.8
2	☐	500.000	507.321	108471.02	0.3934	P	0.1
3	☐	5000.000	5503.607	1144262.41	4.2547	P	0.4
4	☐	12500.000	13319.948	2691856.10	10.2954	A	0.6
5	☐	25000.000	25828.945	5227846.93	19.9627	A	0.5
6	☐	50000.000	51058.865	10155279.99	39.4612	A	0.6
7	☐	100000.00	100397.70	19729455.82	77.5918	A	1.6
8	☐	500000.00	499747.58	86849242.04	386.2219	A	0.5

$$y = 7.7283\text{E-}004 * x + 0.0013$$

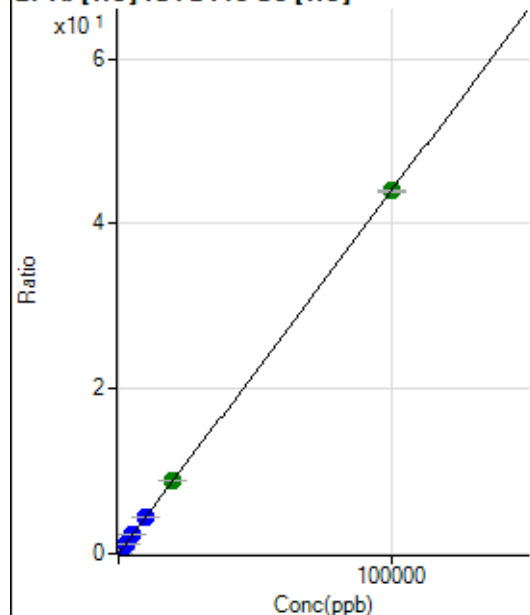
$$R = 1.0000$$

$$DL = 0.1424$$

$$BEC = 1.686$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	42.22	0.0002	P	38.0
2	☐	20.000	20.701	2553.57	0.0093	P	4.9
3	☐	1000.000	1094.918	129563.02	0.4818	P	0.6
4	☐	2500.000	2631.979	302701.74	1.1578	P	1.0
5	☐	5000.000	5209.063	600061.41	2.2914	P	0.3
6	☐	10000.000	10131.457	1146885.55	4.4565	P	0.3
7	☐	20000.000	19991.691	2236075.57	8.7935	A	0.9
8	☐	100000.00	99973.814	9888206.80	43.9734	A	0.5

$$y = 4.3985\text{E-}004 * x + 1.5492\text{E-}004$$

$$R = 1.0000$$

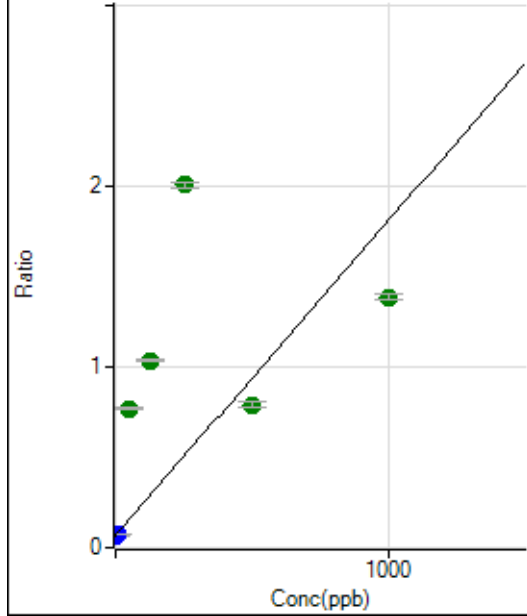
$$DL = 0.401$$

$$BEC = 0.3522$$

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	217943.10	0.0687	P	0.5
2	☐	10.000	5.226	248254.46	0.0779	P	1.4
3	☐	50.000	402.175	2402608.56	0.7705	A	0.9
4	☐	125.000	553.801	3137166.24	1.0351	A	1.2
5	☐	250.000	1112.561	6114614.98	2.0100	A	1.5
6	☐	500.000	413.783	2341596.89	0.7907	A	4.0
7	☐	1000.000	756.307	4053261.26	1.3884	A	1.9
8	☐			379317.62	0.1408	P	3.2

$$y = 0.0017 * x + 0.0687$$

$$R = 0.5002$$

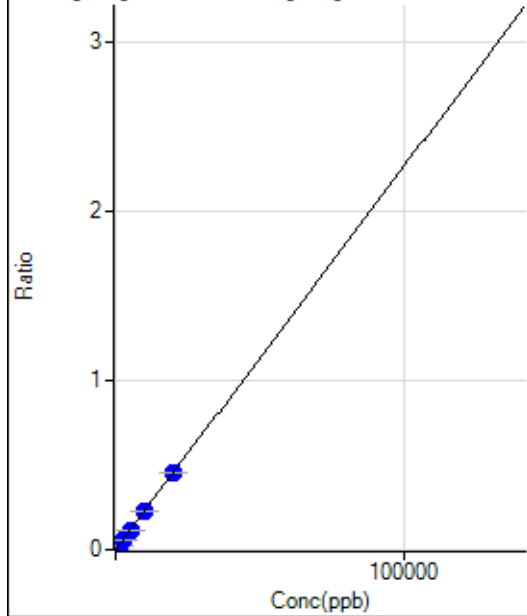
$$DL = 0.5561$$

$$BEC = 39.4$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	-7.919	186.67	0.0007	P	19.7
2	☐	0.000	7.919	287.78	0.0010	P	26.2
3	☐	1000.000	1027.982	6510.33	0.0242	P	1.2
4	☐	2500.000	2571.652	15492.38	0.0593	P	1.6
5	☐	5000.000	5082.055	30446.96	0.1163	P	0.3
6	☐	10000.000	10071.904	59078.99	0.2296	P	0.4
7	☐	20000.000	19933.179	115313.57	0.4535	P	1.1
8	☐			236.67	0.0011	P	6.5

$$y = 2.2707E-005 * x + 8.6402E-004$$

$$R = 1.0000$$

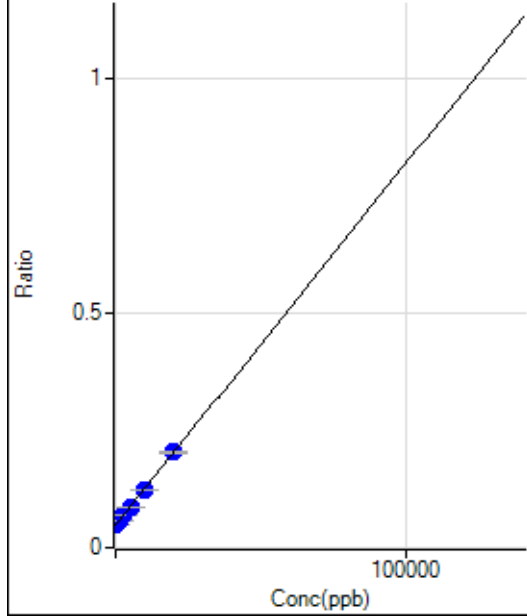
$$DL = 26.95$$

$$BEC = 38.05$$

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	4.547	152169.84	0.0480	P	0.2
2	☐	0.000	-4.547	152812.79	0.0479	P	0.9
3	☐	1000.000	1032.899	174456.30	0.0559	P	1.0
4	☐	2500.000	2629.507	206993.48	0.0683	P	0.9
5	☐	5000.000	4834.972	259648.53	0.0853	P	0.7
6	☐	10000.000	9800.685	366483.33	0.1237	P	1.6
7	☐	20000.000	20123.081	594335.85	0.2036	P	1.0
8	☐			125486.54	0.0466	P	0.6

$$y = 7.7327E-006 * x + 0.0480$$

R = 0.9998

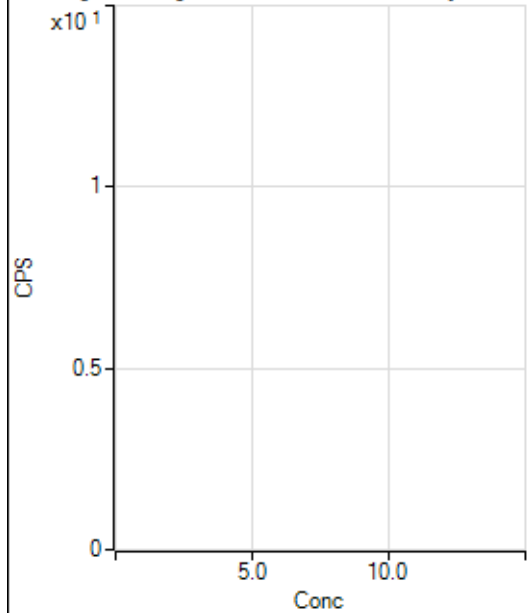
DL = 96.89

BEC = 6202

Weight: <None>

Min Conc: 0

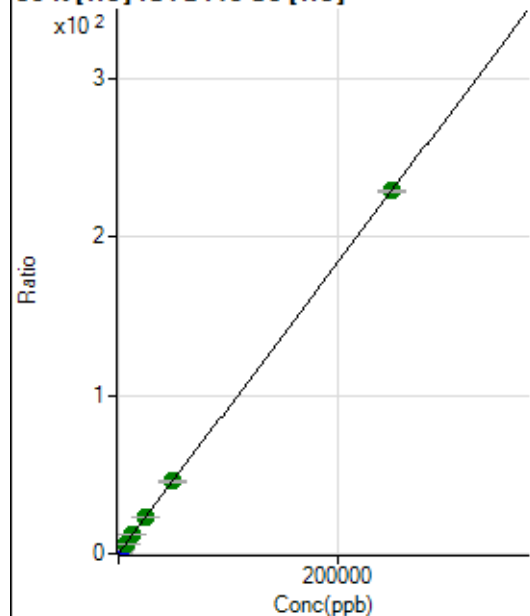
35 Cl [No Gas] No available calibration points



	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	42629.62	0.1562	P	1.0
2	☐	500.000	509.587	171637.40	0.6225	P	0.2
3	☐	2500.000	2775.166	724948.60	2.6955	P	0.2
4	☐	6250.000	6352.088	1560297.49	5.9685	A	1.7
5	☐	12500.000	12587.768	3057205.41	11.6742	A	0.9
6	☐	25000.000	24838.768	5889289.91	22.8841	A	0.4
7	☐	50000.000	49872.476	11643636.91	45.7905	A	1.4
8	☐	250000.00	250031.91	51481568.67	228.9402	A	0.4

$$y = 9.1502\text{E-}004 * x + 0.1562$$

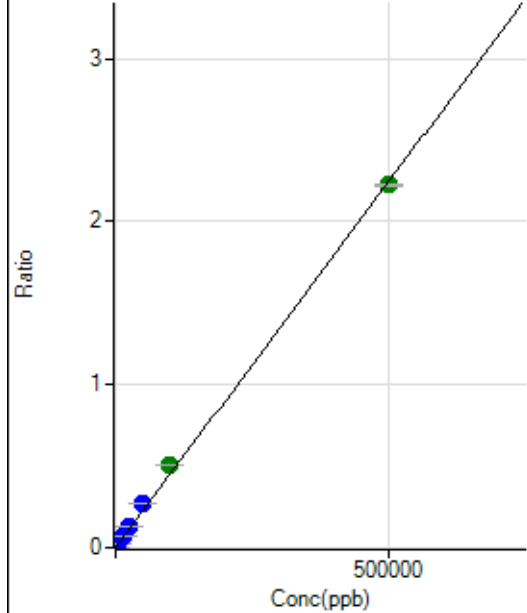
$$R = 1.0000$$

$$DL = 5.022$$

$$BEC = 170.7$$

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	112.22	0.0000	P	35.0
2	☐	500.000	530.484	7697.57	0.0024	P	4.9
3	☐	5000.000	6077.659	85120.32	0.0273	P	0.1
4	☐	12500.000	15106.049	205464.03	0.0678	P	1.9
5	☐	25000.000	29789.383	406584.30	0.1337	P	1.3
6	☐	50000.000	59851.628	795187.35	0.2685	P	1.4
7	☐	100000.00	113245.37	1483161.06	0.5080	A	0.8
8	☐	500000.00	496050.33	5991455.33	2.2250	A	0.4

$$y = 4.4854\text{E-}006 * x + 3.5365\text{E-}005$$

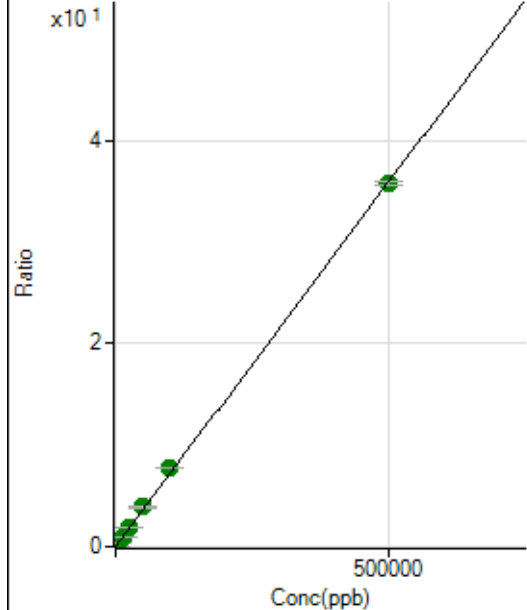
$$R = 0.9995$$

$$DL = 8.28$$

$$BEC = 7.884$$

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	6414.78	0.0020	P	2.8
2	☐	500.000	532.249	128155.97	0.0402	P	0.6
3	☐	5000.000	5357.510	1204243.37	0.3862	A	2.2
4	☐	12500.000	13636.343	2969801.31	0.9799	A	1.5
5	☐	25000.000	27039.565	5904851.09	1.9410	A	0.8
6	☐	50000.000	54320.227	11542297.61	3.8972	A	1.3
7	☐	100000.00	108076.36	22630879.11	7.7520	A	1.8
8	☐	500000.00	497818.71	96132133.01	35.6998	A	1.1

$$y = 7.1708\text{E-}005 * x + 0.0020$$

$$R = 0.9998$$

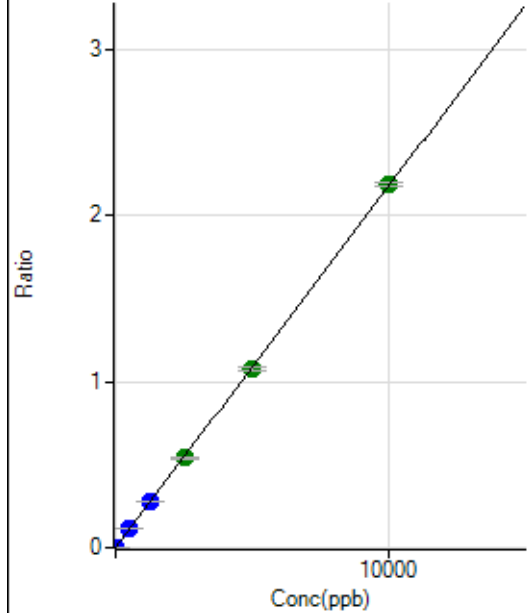
$$DL = 2.376$$

$$BEC = 28.21$$

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	42.22	0.0000	P	12.2
2	☐	5.000	4.874	3420.42	0.0011	P	0.2
3	☐	500.000	512.574	347446.90	0.1114	P	1.4
4	☐	1250.000	1267.221	834850.90	0.2754	P	1.4
5	☐	2500.000	2474.973	1636503.17	0.5379	A	1.1
6	☐	5000.000	4933.595	3175790.23	1.0723	A	1.7
7	☐	10000.000	10036.678	6368907.96	2.1815	A	1.2
8	☐			1420.08	0.0005	P	16.6

$$y = 2.1735E-004 * x + 1.3319E-005$$

$$R = 1.0000$$

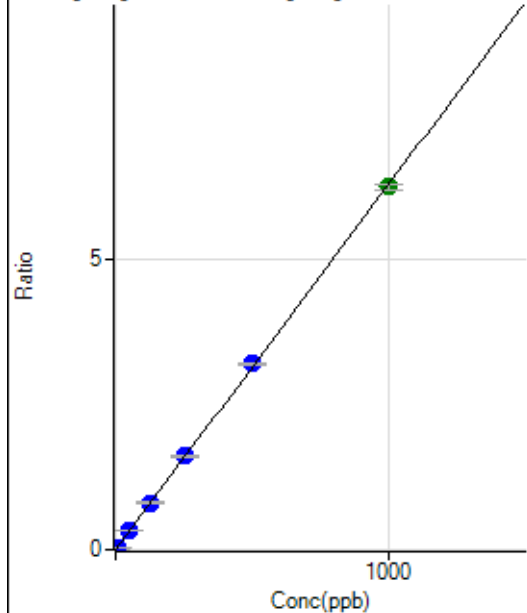
$$DL = 0.02247$$

$$BEC = 0.06128$$

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	2.22	0.0000	P	173.
2	☐	5.000	5.032	8754.83	0.0317	P	2.2
3	☐	50.000	52.276	88682.80	0.3297	P	0.6
4	☐	125.000	128.527	211955.84	0.8107	P	0.9
5	☐	250.000	255.561	422146.70	1.6120	P	0.9
6	☐	500.000	509.034	826303.03	3.2108	P	0.5
7	☐	1000.000	993.538	1593564.96	6.2669	A	1.3
8	☐			472.24	0.0021	P	9.2

$$y = 0.0063 * x + 8.1106E-006$$

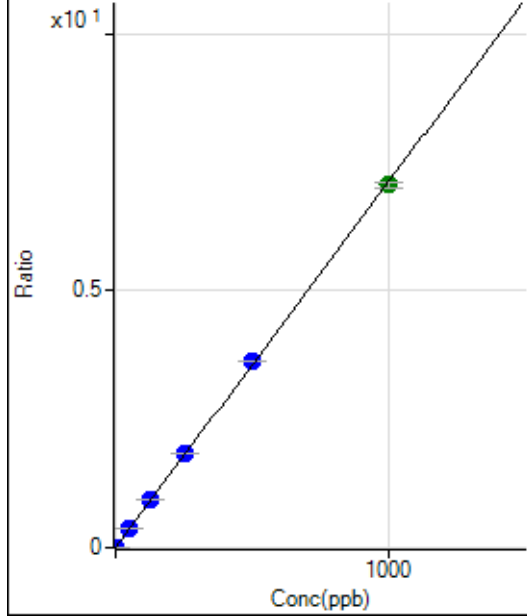
$$R = 0.9999$$

$$DL = 0.006681$$

$$BEC = 0.001286$$

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	786.69	0.0029	P	8.8
2	☐	2.000	1.973	4667.43	0.0169	P	1.8
3	☐	50.000	53.988	104137.25	0.3872	P	0.4
4	☐	125.000	131.141	244819.94	0.9364	P	1.1
5	☐	250.000	259.336	484223.93	1.8490	P	0.2
6	☐	500.000	509.221	933631.91	3.6279	P	0.2
7	☐	1000.000	992.088	1796424.39	7.0653	A	1.8
8	☐			13299.27	0.0591	P	1.5

$$y = 0.0071 * x + 0.0029$$

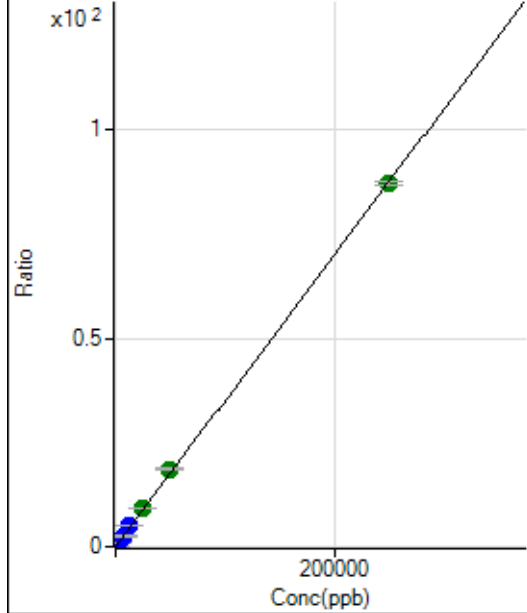
$$R = 0.9999$$

$$DL = 0.1064$$

$$BEC = 0.4048$$

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	1261.17	0.0046	P	8.2
2	☐	50.000	56.799	6743.79	0.0245	P	2.1
3	☐	2500.000	2940.272	277424.15	1.0315	P	0.5
4	☐	6250.000	7221.919	660662.21	2.5269	P	0.7
5	☐	12500.000	14333.405	1312221.66	5.0107	P	0.5
6	☐	25000.000	26903.299	2419353.77	9.4009	A	0.5
7	☐	50000.000	53310.314	4735685.10	18.6238	A	1.1
8	☐	250000.00	249027.23	19558871.93	86.9797	A	1.1

$$y = 3.4926E-004 * x + 0.0046$$

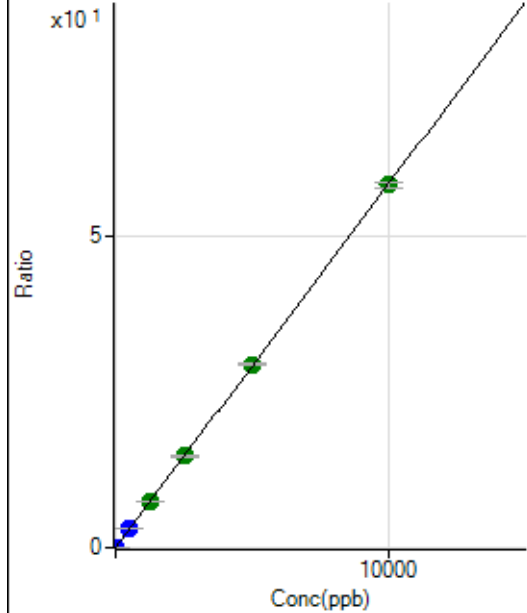
$$R = 0.9999$$

$$DL = 3.255$$

$$BEC = 13.23$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	107.78	0.0004	P	4.2
2	☐	1.000	1.052	1802.35	0.0065	P	4.3
3	☐	500.000	523.928	822872.28	3.0596	P	0.4
4	☐	1250.000	1270.012	1938987.30	7.4161	A	0.3
5	☐	2500.000	2518.450	3851281.12	14.7058	A	0.7
6	☐	5000.000	5028.596	7556717.46	29.3627	A	1.0
7	☐	10000.000	9977.392	14813335.61	58.2590	A	1.9
8	☐			7240.70	0.0322	P	0.3

$$y = 0.0058 * x + 3.9478E-004$$

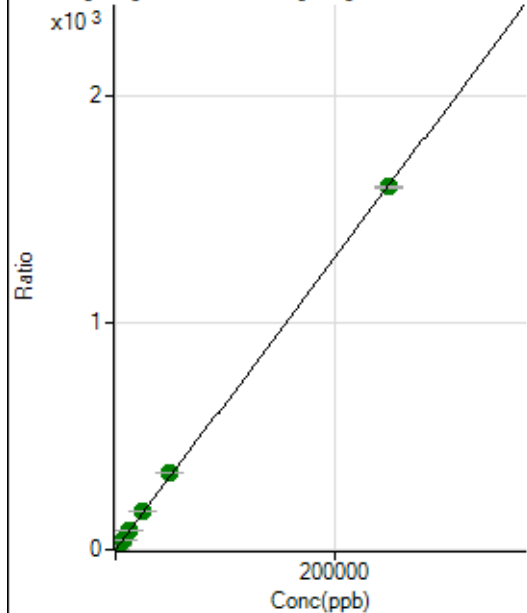
$$R = 1.0000$$

$$DL = 0.008587$$

$$BEC = 0.06761$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8713.69	0.0319	P	2.8
2	☐	50.000	53.698	103974.95	0.3771	P	0.6
3	☐	2500.000	2755.410	4771736.25	17.7427	A	0.6
4	☐	6250.000	6693.800	11256950.11	43.0572	A	0.9
5	☐	12500.000	13379.043	22528855.50	86.0275	A	0.5
6	☐	25000.000	26599.653	44008373.23	171.0048	A	0.3
7	☐	50000.000	52760.095	86231199.82	339.1546	A	2.1
8	☐	250000.00	249230.41	360234772.4	1,601.994	A	0.6

$$y = 0.0064 * x + 0.0319$$

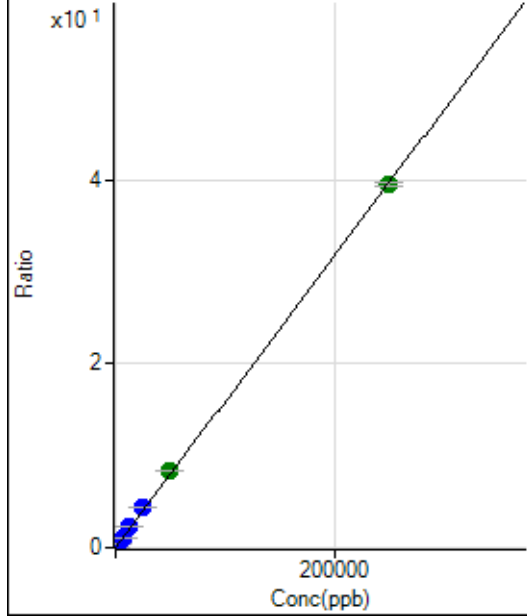
$$R = 0.9999$$

$$DL = 0.4159$$

$$BEC = 4.966$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	320.01	0.0012	P	19.1
2	☐	50.000	57.545	2838.07	0.0103	P	2.4
3	☐	2500.000	2881.715	123145.79	0.4579	P	0.7
4	☐	6250.000	7105.823	294734.95	1.1274	P	1.2
5	☐	12500.000	14030.272	582647.37	2.2248	P	0.7
6	☐	25000.000	27757.045	1132438.04	4.4004	P	0.0
7	☐	50000.000	53025.193	2137181.32	8.4051	A	1.6
8	☐	250000.00	249017.52	8875104.45	39.4677	A	1.1

$$y = 1.5849\text{E-}004 * x + 0.0012$$

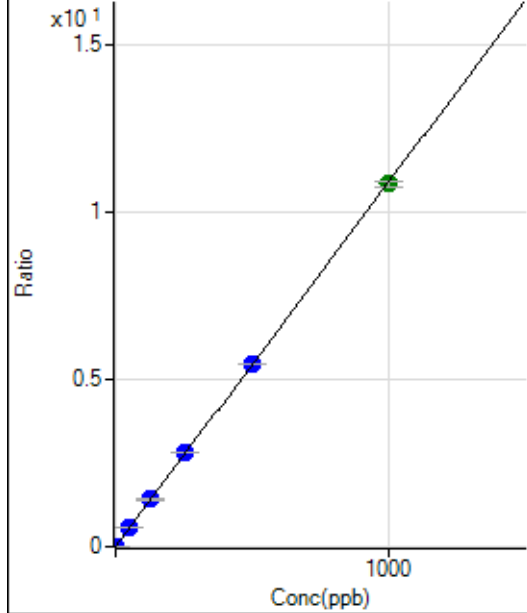
$$R = 0.9999$$

$$DL = 4.248$$

$$BEC = 7.396$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36.67	0.0001	P	27.1
2	☐	1.000	1.032	3131.46	0.0114	P	2.5
3	☐	50.000	53.477	156372.89	0.5814	P	0.5
4	☐	125.000	129.993	369449.18	1.4132	P	1.2
5	☐	250.000	258.019	734533.22	2.8048	P	0.5
6	☐	500.000	502.797	1406558.50	5.4655	P	0.2
7	☐	1000.000	995.798	2752266.00	10.8245	A	1.8
8	☐			2593.58	0.0115	P	2.4

$$y = 0.0109 * x + 1.3432\text{E-}004$$

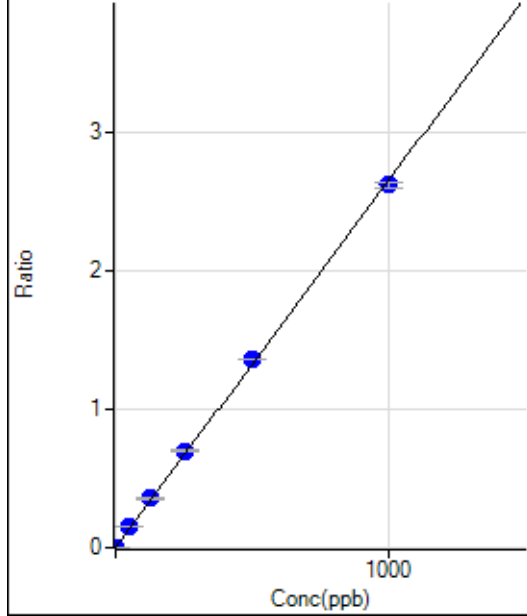
$$R = 1.0000$$

$$DL = 0.01005$$

$$BEC = 0.01236$$

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	66.67	0.0002	P	21.9
2	☐	1.000	1.077	855.59	0.0031	P	4.0
3	☐	50.000	56.006	40038.85	0.1489	P	0.4
4	☐	125.000	134.022	93051.65	0.3559	P	1.0
5	☐	250.000	264.510	183892.42	0.7022	P	0.6
6	☐	500.000	512.931	350371.22	1.3615	P	0.6
7	☐	1000.000	988.479	667055.60	2.6235	P	1.8
8	☐			2085.72	0.0093	P	2.7

$$y = 0.0027 * x + 2.4429E-004$$

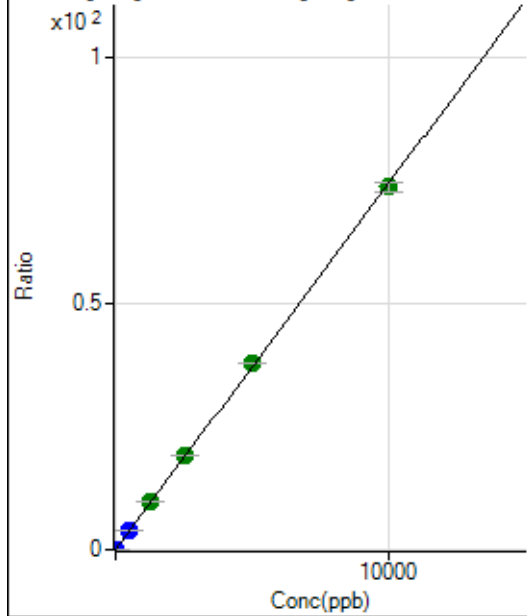
$$R = 0.9997$$

$$DL = 0.06051$$

$$BEC = 0.09205$$

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	774.47	0.0028	P	4.0
2	☐	2.000	2.352	5599.98	0.0203	P	1.3
3	☐	500.000	539.543	1078848.28	4.0114	P	0.4
4	☐	1250.000	1321.857	2568204.65	9.8237	A	1.6
5	☐	2500.000	2582.012	5024529.75	19.1862	A	0.1
6	☐	5000.000	5108.884	9768887.35	37.9599	A	0.5
7	☐	10000.000	9914.096	18728058.33	73.6608	A	2.4
8	☐			3087.02	0.0137	P	6.3

$$y = 0.0074 * x + 0.0028$$

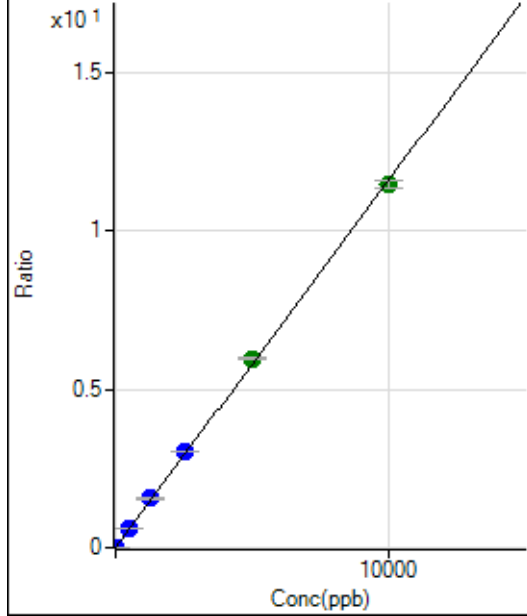
$$R = 0.9999$$

$$DL = 0.04556$$

$$BEC = 0.3818$$

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	102.22	0.0004	P	13.7
2	☐	2.000	2.422	877.81	0.0032	P	8.2
3	☐	500.000	545.566	170250.15	0.6330	P	0.1
4	☐	1250.000	1341.293	406730.41	1.5558	P	1.3
5	☐	2500.000	2624.175	797017.50	3.0434	P	0.6
6	☐	5000.000	5150.176	1537047.72	5.9727	A	1.0
7	☐	10000.000	9880.178	2913124.64	11.4577	A	2.3
8	☐			13116.97	0.0583	P	1.9

$$y = 0.0012 * x + 3.7467E-004$$

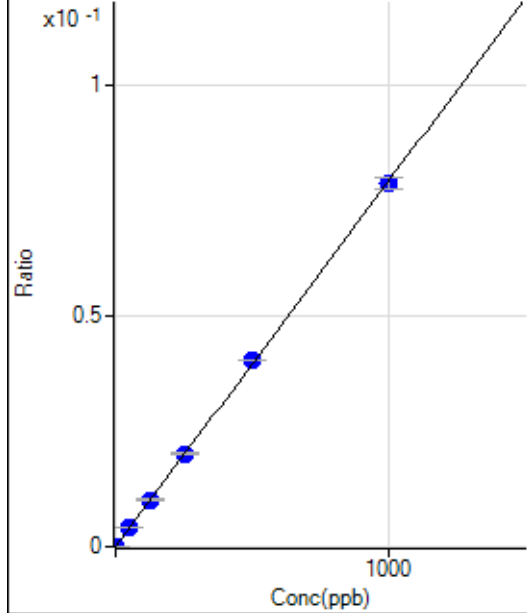
$$R = 0.9997$$

$$DL = 0.1331$$

$$BEC = 0.3231$$

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	3.33	0.0000	P	100.
2	☐	1.000	1.124	244.45	0.0001	P	3.3
3	☐	50.000	52.354	11030.82	0.0041	P	0.5
4	☐	125.000	128.128	26628.38	0.0101	P	1.7
5	☐	250.000	254.974	52973.04	0.0202	P	1.3
6	☐	500.000	510.670	104281.88	0.0404	P	0.4
7	☐	1000.000	992.913	202819.74	0.0785	P	3.0
8	☐			38.89	0.0000	P	49.0

$$y = 7.9101E-005 * x + 1.2255E-006$$

$$R = 0.9999$$

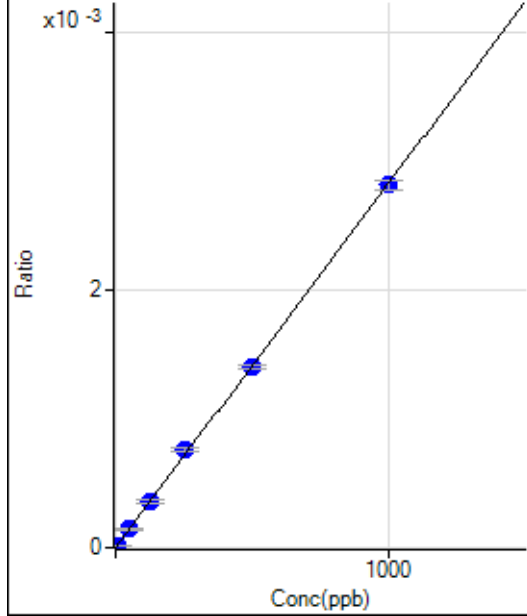
$$DL = 0.04659$$

$$BEC = 0.01549$$

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	4.469	34.44	0.0000	P	42.3
3	☐	50.000	51.151	385.56	0.0001	P	5.2
4	☐	125.000	125.895	936.71	0.0004	P	7.0
5	☐	250.000	268.913	2000.16	0.0008	P	4.0
6	☐	500.000	498.163	3640.48	0.0014	P	2.1
7	☐	1000.000	996.024	7280.74	0.0028	P	3.0
8	☐			3.33	0.0000	P	1.1

$$y = 2.8307\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9998$$

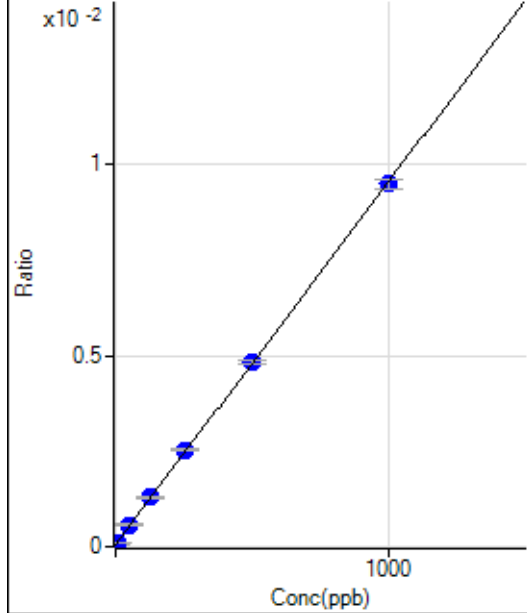
$$DL = 0$$

$$BEC = 0$$

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	148.89	0.0001	P	27.3
2	☐	5.000	5.599	293.34	0.0001	P	10.3
3	☐	50.000	53.189	1488.98	0.0006	P	9.0
4	☐	125.000	131.021	3407.09	0.0013	P	3.4
5	☐	250.000	261.706	6661.56	0.0025	P	2.8
6	☐	500.000	503.306	12458.65	0.0048	P	2.0
7	☐	1000.000	994.506	24490.31	0.0095	P	2.7
8	☐			158.89	0.0001	P	10.6

$$y = 9.4804\text{E-}006 * x + 5.4902\text{E-}005$$

$$R = 0.9999$$

$$DL = 4.741$$

$$BEC = 5.791$$

Weight: <None>

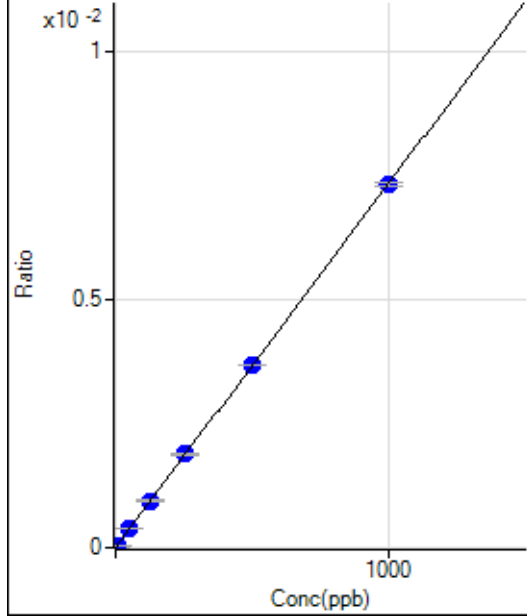
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			30855.66		P	0.1
2	☐			31211.95		P	1.5
3	☐			30152.03		P	0.4
4	☐			30218.82		P	0.7
5	☐			29629.81		P	1.1
6	☐			29137.73		P	0.8
7	☐			29226.79		P	2.1
8	☐			27581.47		P	3.5

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			74.44		P	20.2
2	☐			97.78		P	7.1
3	☐			37.78		P	28.4
4	☐			63.34		P	50.8
5	☐			52.22		P	30.2
6	☐			57.78		P	50.4
7	☐			51.11		P	49.4
8	☐			56.67		P	11.8

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	40.58	0.0000	P	33.5
2	☐	5.000	5.197	462.65	0.0000	P	2.8
3	☐	50.000	51.829	4138.60	0.0004	P	1.5
4	☐	125.000	128.544	10079.43	0.0009	P	2.3
5	☐	250.000	256.601	20115.60	0.0019	P	2.2
6	☐	500.000	502.469	39443.20	0.0037	P	0.2
7	☐	1000.000	996.580	76271.55	0.0073	P	1.1
8	☐			174.82	0.0000	P	20.7

$$y = 7.3302\text{E-}006 * x + 3.6997\text{E-}006$$

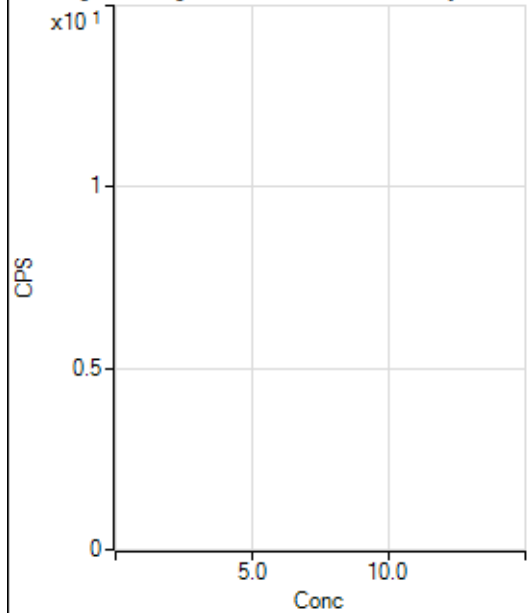
$$R = 1.0000$$

$$DL = 0.5077$$

$$BEC = 0.5047$$

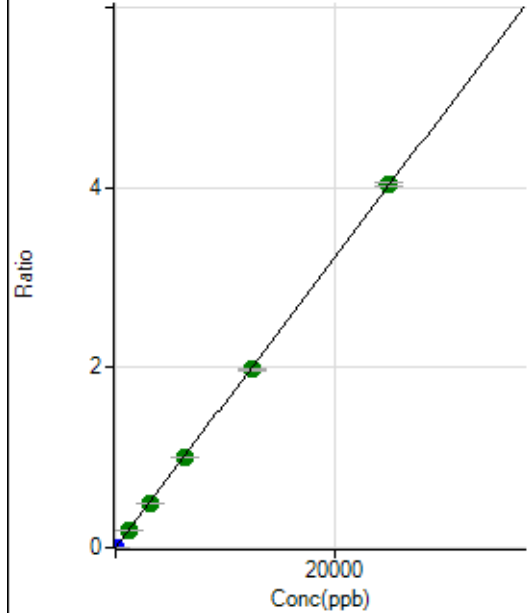
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			68.89		P	17.0
2	☐			71.11		P	2.7
3	☐			78.89		P	8.8
4	☐			94.45		P	7.3
5	☐			83.33		P	8.0
6	☐			101.11		P	30.6
7	☐			111.11		P	15.4
8	☐			106.67		P	19.5

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	167.78	0.0000	P	16.2
2	☐	1.000	0.913	1792.35	0.0002	P	3.5
3	☐	1250.000	1255.311	2173950.51	0.2015	A	1.0
4	☐	3125.000	3075.834	5261998.74	0.4938	A	1.0
5	☐	6250.000	6298.919	10794695.53	1.0111	A	0.4
6	☐	12500.000	12325.379	21167376.77	1.9785	A	1.3
7	☐	25000.000	25080.961	42015374.37	4.0261	A	1.1
8	☐			12910.26	0.0014	P	13.0

$$y = 1.6052\text{E-}004 * x + 1.5284\text{E-}005$$

$$R = 1.0000$$

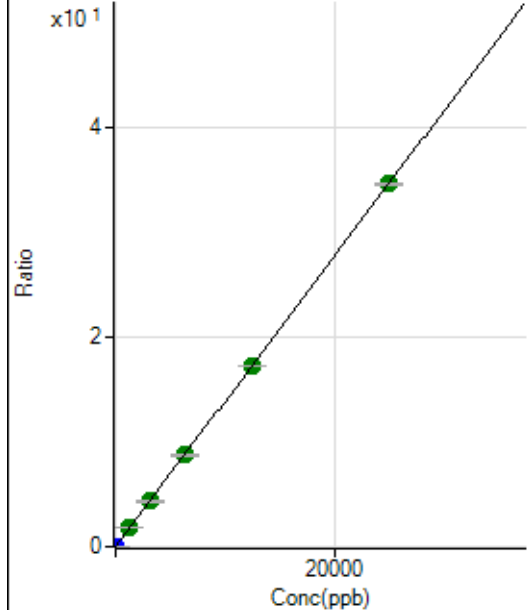
$$DL = 0.04633$$

$$BEC = 0.09521$$

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	135.56	0.0000	P	11.0
2	☐	1.000	0.947	14655.19	0.0013	P	1.7
3	☐	1250.000	1266.963	18922725.27	1.7542	A	0.9
4	☐	3125.000	3123.707	46090471.54	4.3250	A	1.1
5	☐	6250.000	6297.426	93066055.28	8.7193	A	2.1
6	☐	12500.000	12451.952	184443739.4	17.2407	A	0.2
7	☐	25000.000	25011.481	361405514.6	34.6303	A	0.6
8	☐			111871.82	0.0120	P	13.7

$$y = 0.0014 * x + 1.2371\text{E-}005$$

$$R = 1.0000$$

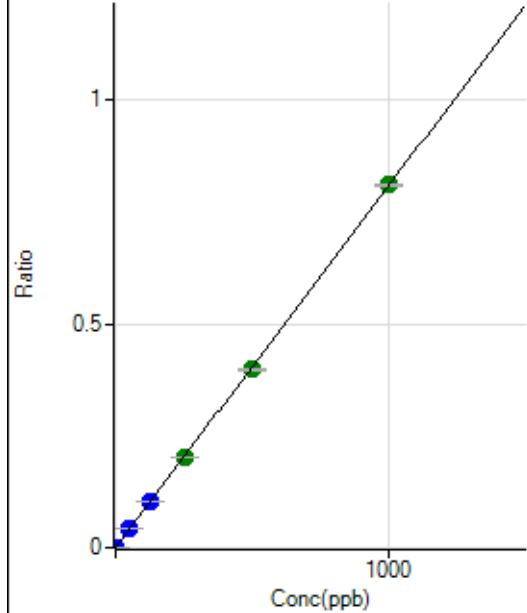
$$DL = 0.002948$$

$$BEC = 0.008935$$

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	333.34	0.0000	P	7.1
2	☐	1.000	0.920	8567.01	0.0008	P	2.1
3	☐	50.000	51.062	445239.07	0.0413	P	1.1
4	☐	125.000	125.850	1083649.33	0.1017	P	0.8
5	☐	250.000	249.949	2155445.07	0.2019	A	1.5
6	☐	500.000	493.061	4261043.44	0.3983	A	1.2
7	☐	1000.000	1003.323	8457551.05	0.8104	A	0.9
8	☐			2340.21	0.0003	P	14.8

$$y = 8.0773\text{E-}004 * x + 3.0407\text{E-}005$$

$$R = 1.0000$$

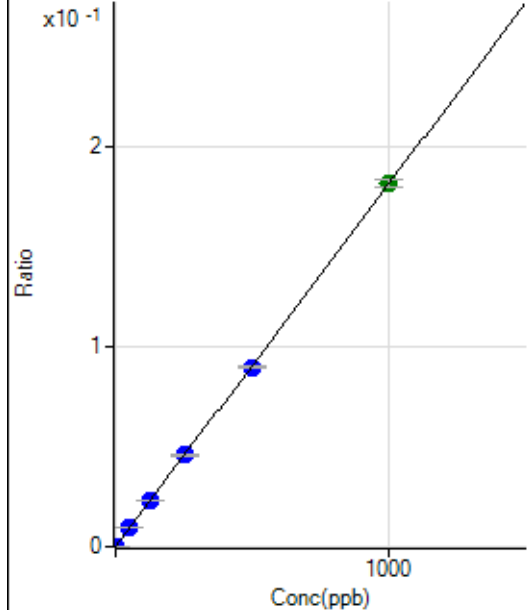
$$DL = 0.008059$$

$$BEC = 0.03765$$

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	48.89	0.0000	P	21.3
2	☐	1.000	0.903	1861.25	0.0002	P	2.7
3	☐	50.000	51.256	100250.24	0.0093	P	1.7
4	☐	125.000	125.748	242915.38	0.0228	P	1.1
5	☐	250.000	253.137	489721.52	0.0459	P	2.2
6	☐	500.000	495.296	960367.36	0.0898	P	0.9
7	☐	1000.000	1001.412	1893889.05	0.1815	A	2.0
8	☐			538.91	0.0001	P	17.1

$$y = 1.8123\text{E-}004 * x + 4.4601\text{E-}006$$

$$R = 1.0000$$

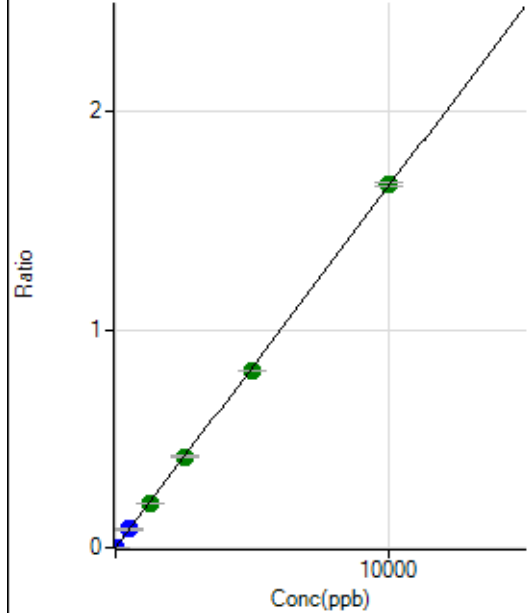
$$DL = 0.01571$$

$$BEC = 0.02461$$

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	101.11	0.0000	P	11.7
2	☐	5.000	5.341	9905.65	0.0009	P	0.6
3	☐	500.000	506.660	906203.97	0.0840	P	1.1
4	☐	1250.000	1242.815	2195947.97	0.2061	A	0.8
5	☐	2500.000	2507.181	4436835.90	0.4157	A	2.2
6	☐	5000.000	4912.690	8713642.23	0.8145	A	0.3
7	☐	10000.000	10042.425	17374617.94	1.6650	A	1.1
8	☐			4665.26	0.0005	P	20.3

$$y = 1.6579\text{E-}004 * x + 9.2200\text{E-}006$$

$$R = 0.9999$$

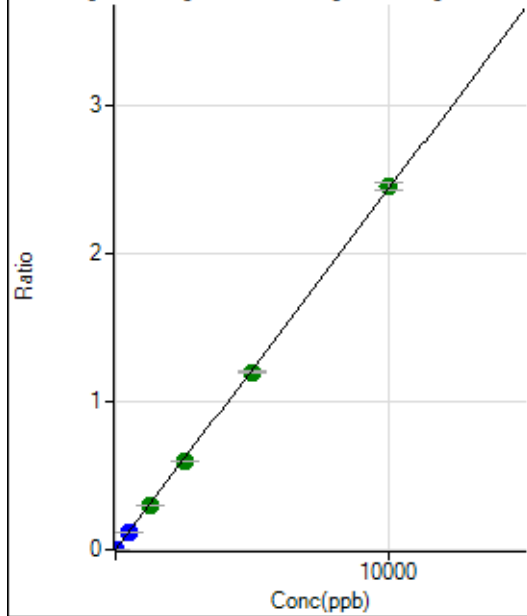
$$DL = 0.01952$$

$$BEC = 0.05561$$

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	37.78	0.0000	P	23.0
2	☐	5.000	4.499	12162.92	0.0011	P	1.6
3	☐	500.000	502.915	1320528.74	0.1224	P	1.0
4	☐	1250.000	1237.506	3210156.27	0.3012	A	0.8
5	☐	2500.000	2466.113	6408162.13	0.6003	A	0.7
6	☐	5000.000	4914.642	12797940.09	1.1963	A	1.1
7	☐	10000.000	10052.567	25533133.79	2.4469	A	2.2
8	☐			5678.97	0.0006	P	17.2

$$y = 2.4341\text{E-}004 * x + 3.4494\text{E-}006$$

$$R = 0.9999$$

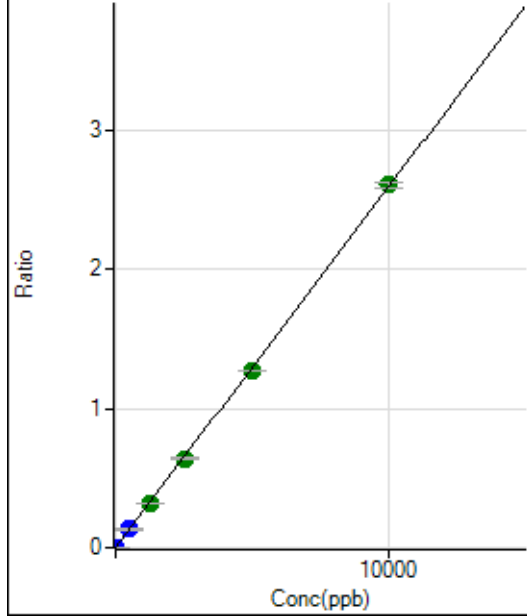
$$DL = 0.009771$$

$$BEC = 0.01417$$

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	67.78	0.0000	P	16.5
2	☐	5.000	4.715	13589.73	0.0012	P	0.5
3	☐	500.000	508.155	1419913.40	0.1316	P	0.9
4	☐	1250.000	1243.599	3433078.52	0.3221	A	0.8
5	☐	2500.000	2473.215	6837955.73	0.6406	A	2.0
6	☐	5000.000	4910.128	13606439.66	1.2719	A	0.7
7	☐	10000.000	10052.025	27171017.93	2.6037	A	1.2
8	☐			16268.13	0.0017	P	10.2

$$y = 2.5903\text{E-}004 * x + 6.1846\text{E-}006$$

$$R = 0.9999$$

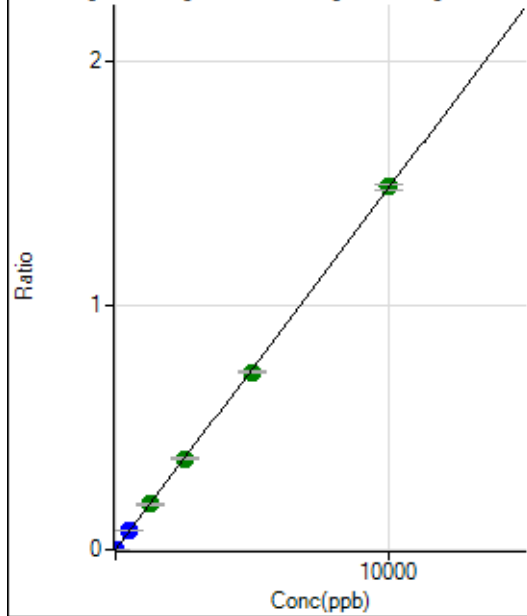
$$DL = 0.0118$$

$$BEC = 0.02388$$

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	10.00	0.0000	P	56.5
2	☐	5.000	4.612	7575.37	0.0007	P	0.8
3	☐	500.000	510.919	816687.47	0.0757	P	0.9
4	☐	1250.000	1251.670	1976500.28	0.1855	A	1.5
5	☐	2500.000	2525.542	3994286.89	0.3742	A	2.8
6	☐	5000.000	4914.494	7790934.95	0.7282	A	0.4
7	☐	10000.000	10035.613	15518929.91	1.4871	A	1.9
8	☐			3751.64	0.0004	P	21.9

$$y = 1.4818\text{E-}004 * x + 9.0822\text{E-}007$$

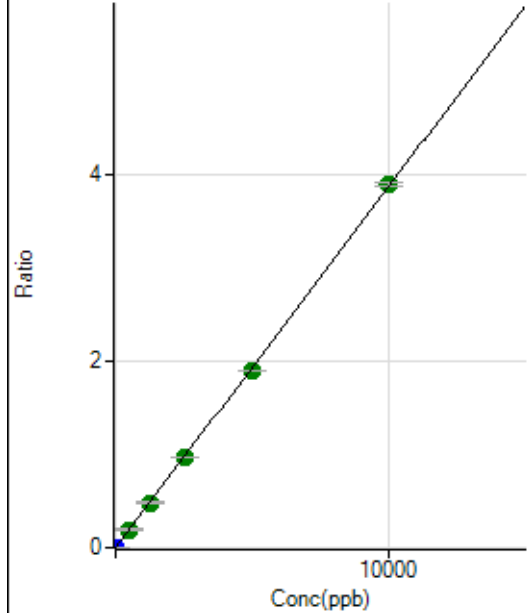
$$R = 0.9999$$

$$DL = 0.01038$$

$$BEC = 0.006129$$

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	22.22	0.0000	P	23.0
2	☐	5.000	4.595	19664.40	0.0018	P	1.0
3	☐	500.000	502.199	2091720.98	0.1939	A	2.1
4	☐	1250.000	1243.244	5115832.87	0.4801	A	1.7
5	☐	2500.000	2500.196	10305361.38	0.9655	A	1.8
6	☐	5000.000	4899.016	20238777.62	1.8918	A	0.4
7	☐	10000.000	10051.178	40503551.34	3.8813	A	1.1
8	☐			8948.47	0.0010	P	20.8

$$y = 3.8615\text{E-}004 * x + 2.0261\text{E-}006$$

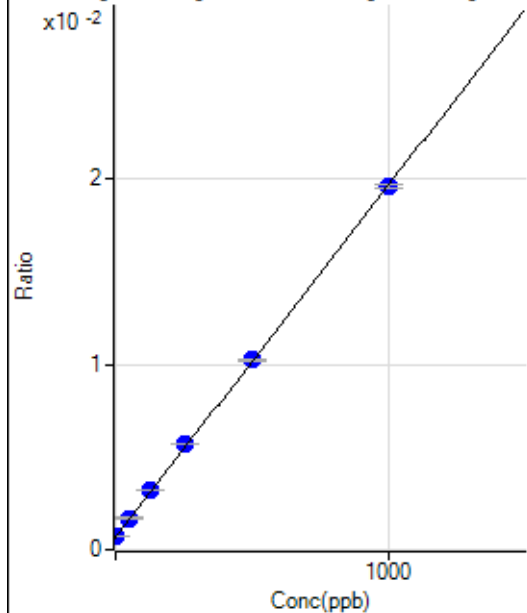
$$R = 0.9999$$

$$DL = 0.003614$$

$$BEC = 0.005247$$

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	5000.90	0.0007	P	0.7
2	☐	1.000	1.233	5205.42	0.0007	P	0.9
3	☐	50.000	52.925	12060.67	0.0017	P	2.1
4	☐	125.000	133.356	22552.00	0.0032	P	1.1
5	☐	250.000	263.637	40207.77	0.0057	P	0.4
6	☐	500.000	501.689	72539.83	0.0102	P	0.9
7	☐	1000.000	994.555	136625.36	0.0196	P	1.1
8	☐			4399.61	0.0007	P	6.7

$$y = 1.9004\text{E-}005 * x + 7.0066\text{E-}004$$

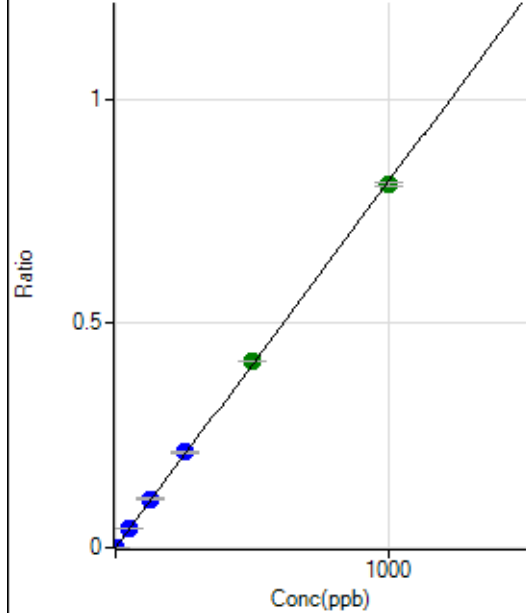
$$R = 0.9999$$

$$DL = 0.7358$$

$$BEC = 36.87$$

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	54.44	0.0000	P	9.5
2	☐	1.000	1.027	6078.00	0.0008	P	3.8
3	☐	50.000	53.979	311199.94	0.0440	P	0.5
4	☐	125.000	133.772	760521.35	0.1091	P	1.0
5	☐	250.000	260.711	1496837.86	0.2126	P	1.0
6	☐	500.000	510.061	2948165.79	0.4160	A	0.4
7	☐	1000.000	990.996	5633026.03	0.8082	A	1.1
8	☐			2561.37	0.0004	P	12.9

$$y = 8.1549\text{E-}004 * x + 7.6285\text{E-}006$$

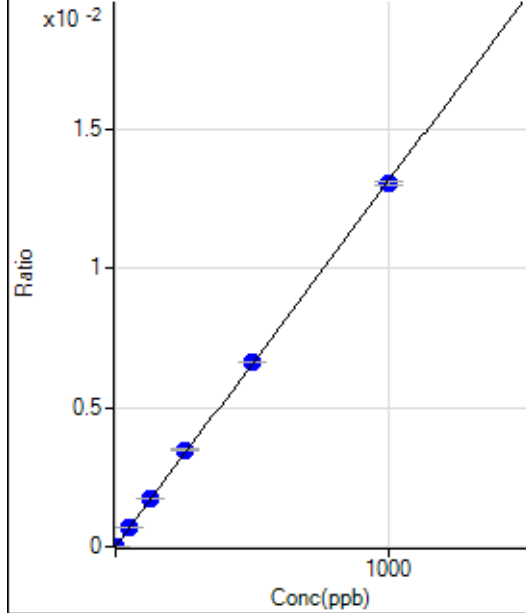
$$R = 0.9998$$

$$DL = 0.002665$$

$$BEC = 0.009355$$

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	6.67	0.0000	P	86.6
2	☐	1.000	1.022	103.33	0.0000	P	19.4
3	☐	50.000	54.532	5077.60	0.0007	P	2.0
4	☐	125.000	131.867	12098.48	0.0017	P	1.2
5	☐	250.000	264.757	24526.39	0.0035	P	0.7
6	☐	500.000	505.714	47155.23	0.0067	P	0.5
7	☐	1000.000	992.369	90995.38	0.0131	P	0.9
8	☐			56.67	0.0000	P	39.5

$$y = 1.3154\text{E-}005 * x + 9.3514\text{E-}007$$

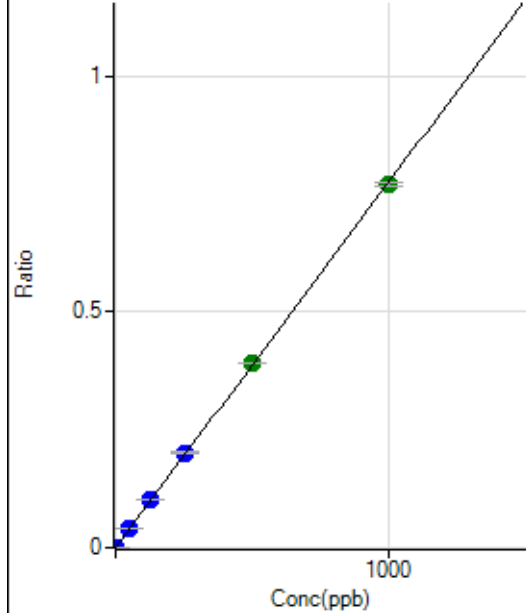
$$R = 0.9998$$

$$DL = 0.1847$$

$$BEC = 0.07109$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	13.33	0.0000	P	50.1
2	☐	1.000	1.026	5730.09	0.0008	P	0.4
3	☐	50.000	53.907	295326.86	0.0418	P	1.0
4	☐	125.000	132.885	718017.35	0.1030	P	0.8
5	☐	250.000	260.385	1420865.48	0.2018	P	0.7
6	☐	500.000	505.897	2779164.02	0.3921	A	0.6
7	☐	1000.000	993.274	5366407.14	0.7699	A	1.1
8	☐			2303.54	0.0004	P	13.2

$$y = 7.7508\text{E-}004 * x + 1.8682\text{E-}006$$

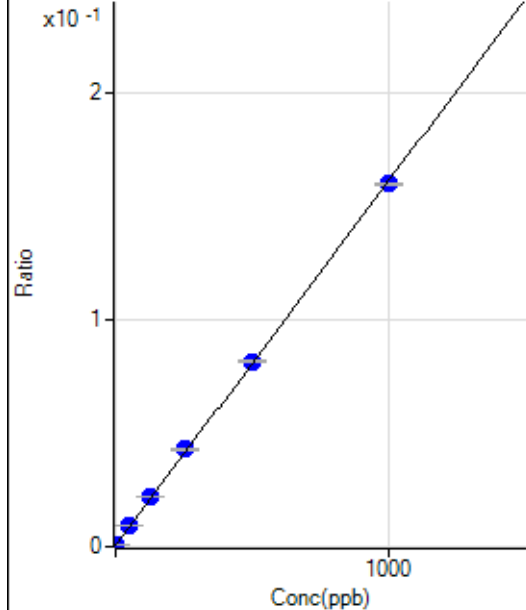
$$R = 0.9999$$

$$DL = 0.00362$$

$$BEC = 0.00241$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3504.85	0.0005	P	0.5
2	☐	1.000	1.099	4795.98	0.0007	P	0.7
3	☐	50.000	53.559	64147.75	0.0091	P	0.6
4	☐	125.000	133.860	152993.58	0.0219	P	0.2
5	☐	250.000	263.439	300719.75	0.0427	P	1.1
6	☐	500.000	505.711	577968.74	0.0815	P	1.0
7	☐	1000.000	992.499	1112258.09	0.1596	P	0.8
8	☐			3387.84	0.0005	P	6.7

$$y = 1.6028\text{E-}004 * x + 4.9105\text{E-}004$$

$$R = 0.9999$$

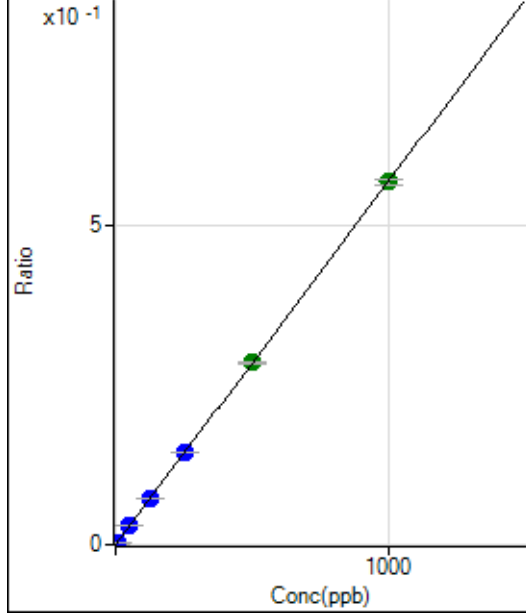
$$DL = 0.04942$$

$$BEC = 3.064$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	854.48	0.0001	P	5.3
2	☐	5.000	4.728	20177.55	0.0028	P	1.3
3	☐	50.000	51.146	206317.10	0.0292	P	1.1
4	☐	125.000	126.529	502157.21	0.0720	P	1.4
5	☐	250.000	253.268	1014281.44	0.1441	P	0.9
6	☐	500.000	500.599	2017472.68	0.2846	A	0.6
7	☐	1000.000	998.637	3957209.80	0.5677	A	1.7
8	☐			2644.72	0.0004	P	4.9

$$y = 5.6836\text{E-}004 * x + 1.1972\text{E-}004$$

$$R = 1.0000$$

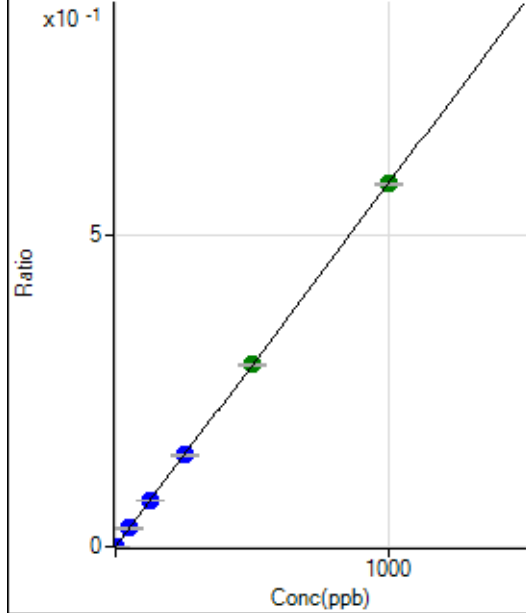
$$DL = 0.03346$$

$$BEC = 0.2106$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	12.22	0.0000	P	56.5
2	☐	2.000	1.865	7828.86	0.0011	P	1.4
3	☐	50.000	50.403	207763.73	0.0294	P	0.8
4	☐	125.000	125.649	510798.51	0.0733	P	0.9
5	☐	250.000	252.024	1034693.99	0.1470	P	1.1
6	☐	500.000	501.449	2072618.67	0.2924	A	0.5
7	☐	1000.000	998.668	4059520.53	0.5824	A	0.5
8	☐			2398.00	0.0004	P	2.0

$$y = 5.8315\text{E-}004 * x + 1.7113\text{E-}006$$

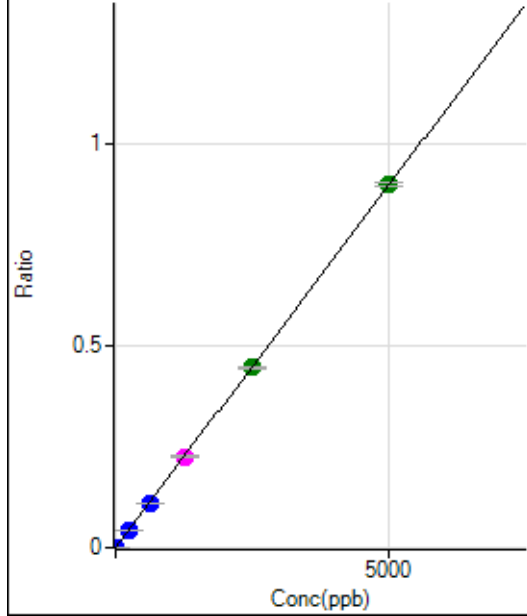
$$R = 1.0000$$

$$DL = 0.004978$$

$$BEC = 0.002935$$

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	13.33	0.0000	P	109.
2	☐	10.000	9.058	11718.26	0.0016	P	1.6
3	☐	250.000	245.347	311741.24	0.0441	P	0.9
4	☐	625.000	608.796	762918.56	0.1094	P	0.8
5	☐	1250.000	1250.379	1582595.01	0.2248	M	2.3
6	☐	2500.000	2485.233	3166311.62	0.4468	A	1.5
7	☐	5000.000	5009.549	6276875.18	0.9005	A	1.1
8	☐			3787.21	0.0006	P	7.5

$$y = 1.7976\text{E-}004 * x + 1.8693\text{E-}006$$

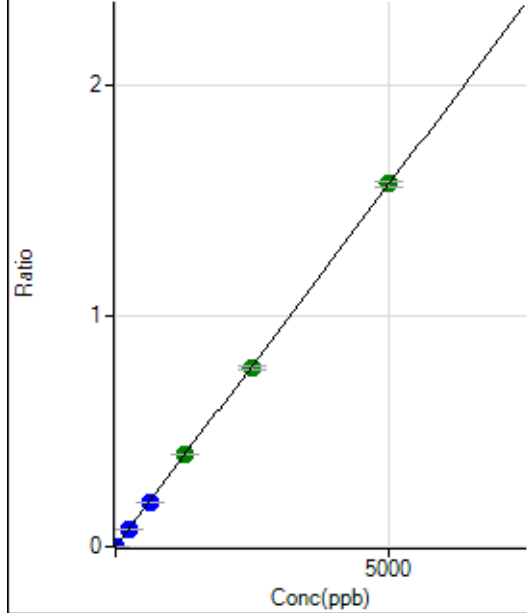
$$R = 1.0000$$

$$DL = 0.03403$$

$$BEC = 0.0104$$

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	16.66	0.0000	P	69.3
2	☐	10.000	9.105	20547.10	0.0029	P	0.5
3	☐	250.000	244.618	542343.74	0.0767	P	1.1
4	☐	625.000	608.565	1330750.38	0.1909	P	0.5
5	☐	1250.000	1269.931	2804487.63	0.3983	A	1.2
6	☐	2500.000	2469.981	5491178.18	0.7748	A	1.7
7	☐	5000.000	5012.352	10958858.17	1.5723	A	1.5
8	☐			6659.40	0.0011	P	7.2

$$y = 3.1368\text{E-}004 * x + 2.3334\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01546$$

$$BEC = 0.007439$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	107.
2	☐			10.00		P	57.7
3	☐			57.78		P	17.6
4	☐			153.34		P	23.5
5	☐			321.12		P	5.9
6	☐			551.13		P	7.1
7	☐			1118.95		P	6.4
8	☐			32.22		P	36.3

150 Nd [He] No available calibration points

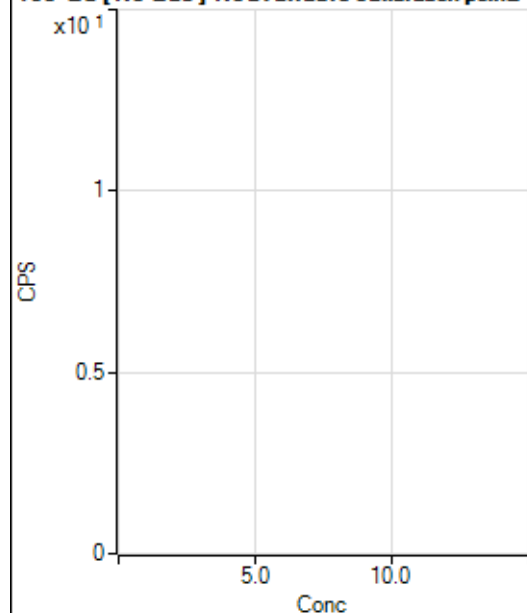
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			1.11		P	173.
3	☐			14.44		P	35.3
4	☐			31.11		P	24.7
5	☐			64.45		P	6.0
6	☐			103.33		P	30.8
7	☐			221.11		P	4.6
8	☐			15.56		P	12.4

156 Dy [No Gas] No available calibration points

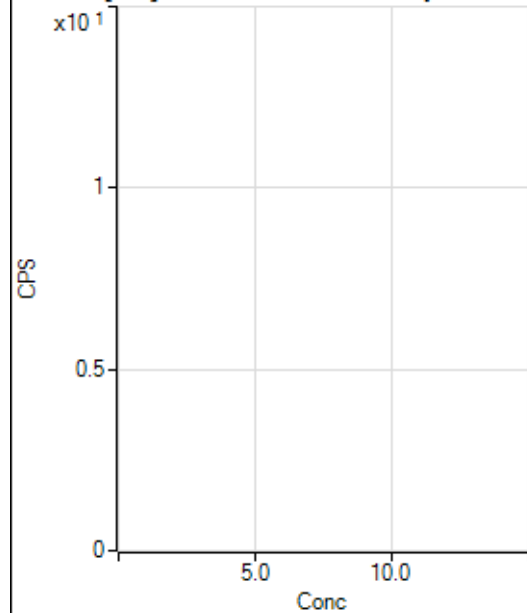
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			3.33		P	0.0
3	☐			27.78		P	18.3
4	☐			67.78		P	24.3
5	☐			122.22		P	23.2
6	☐			212.23		P	8.6
7	☐			453.34		P	4.4
8	☐			994.50		P	5.0

156 Dy [He] No available calibration points

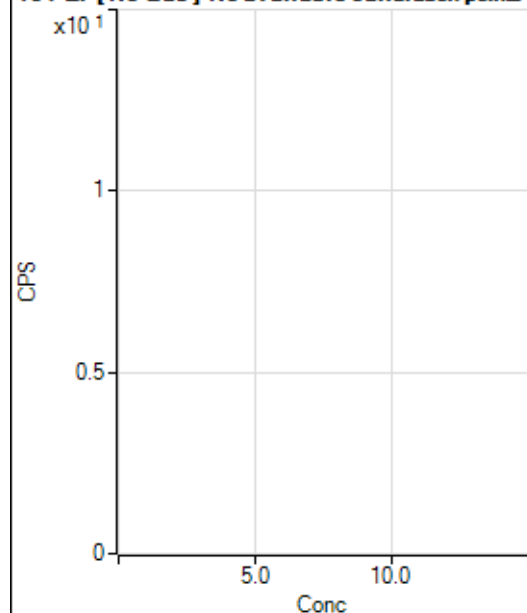
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	34.7
2	☐			5.55		P	124.
3	☐			26.67		P	45.1
4	☐			45.56		P	25.7
5	☐			102.22		P	15.1
6	☐			171.11		P	14.6
7	☐			384.46		P	9.5
8	☐			691.13		P	2.7

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

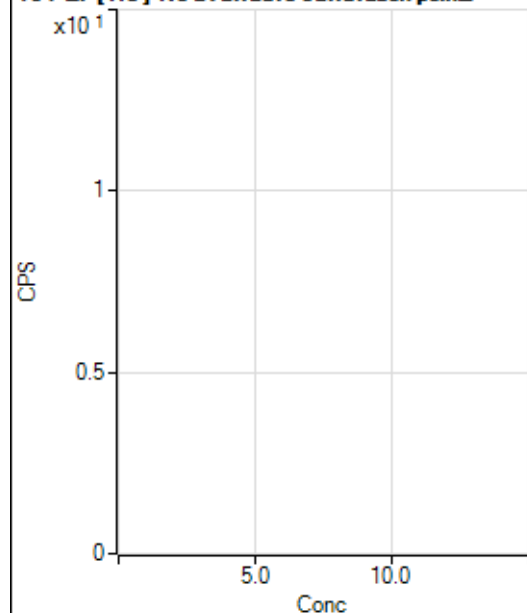
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			36.67		P	45.5
2	☐			30.00		P	19.2
3	☐			42.22		P	9.1
4	☐			64.45		P	20.9
5	☐			97.78		P	11.0
6	☐			158.89		P	4.8
7	☐			268.89		P	10.4
8	☐			1068.94		P	2.9

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			218.89		P	9.2
2	☐			167.78		P	6.1
3	☐			210.00		P	4.8
4	☐			204.45		P	10.5
5	☐			233.34		P	3.8
6	☐			277.78		P	8.5
7	☐			355.57		P	6.2
8	☐			906.71		P	7.7

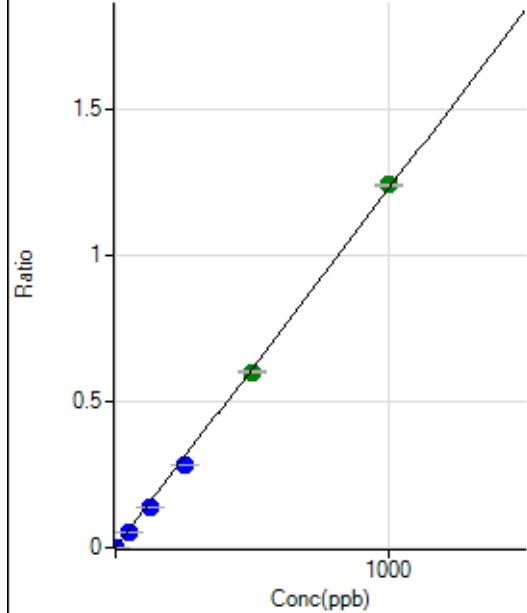
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.45		P	24.7
2	☐			51.11		P	22.9
3	☐			48.89		P	27.6
4	☐			57.78		P	3.3
5	☐			60.00		P	19.2
6	☐			60.00		P	5.5
7	☐			83.33		P	14.4
8	☐			105.56		P	26.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	9.9
2	☐			44.45		P	15.6
3	☐			42.22		P	12.1
4	☐			48.89		P	7.9
5	☐			34.44		P	5.6
6	☐			27.78		P	6.9
7	☐			47.78		P	35.1
8	☐			67.78		P	17.3

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	40.00	0.0000	P	13.0
2	☐	1.000	0.828	4711.97	0.0010	P	0.1
3	☐	50.000	45.190	249909.55	0.0555	P	1.1
4	☐	125.000	112.037	616684.18	0.1376	P	2.2
5	☐	250.000	230.088	1255139.91	0.2825	P	1.6
6	☐	500.000	490.002	2650819.21	0.6016	A	0.8
7	☐	1000.000	1011.838	5288209.02	1.2423	A	0.5
8	☐			860.04	0.0002	P	37.1

$$y = 0.0012 * x + 8.7659E-006$$

$$R = 0.9997$$

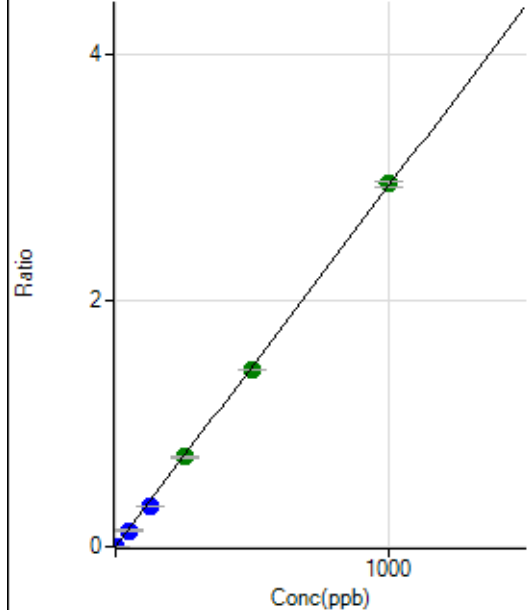
$$DL = 0.002785$$

$$BEC = 0.00714$$

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	111.11	0.0000	P	31.1
2	☐	1.000	0.849	11520.53	0.0025	P	0.9
3	☐	50.000	45.168	595227.01	0.1322	P	1.1
4	☐	125.000	112.048	1469673.23	0.3278	P	1.9
5	☐	250.000	248.329	3228341.20	0.7265	A	0.7
6	☐	500.000	491.076	6330435.53	1.4367	A	0.8
7	☐	1000.000	1006.741	12537425.37	2.9454	A	1.9
8	☐			2233.55	0.0006	P	28.6

$$y = 0.0029 * x + 2.4351E-005$$

$$R = 0.9999$$

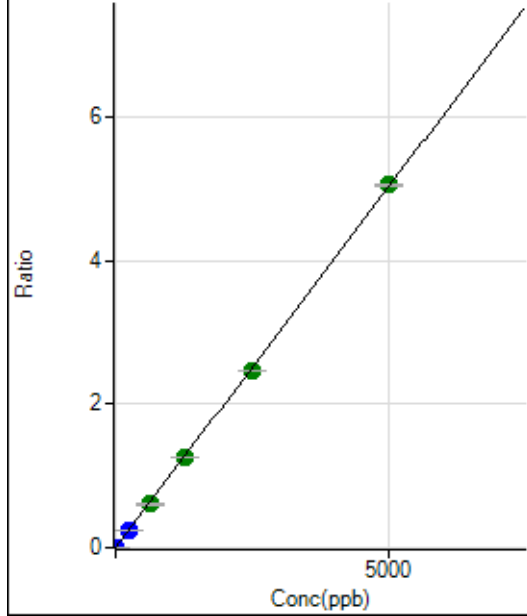
$$DL = 0.007768$$

$$BEC = 0.008323$$

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	202.23	0.0000	P	15.3
2	☐	1.000	0.886	4291.83	0.0009	P	1.1
3	☐	250.000	229.853	1040345.65	0.2310	P	1.2
4	☐	625.000	604.780	2724472.87	0.6078	A	2.2
5	☐	1250.000	1246.733	5566563.25	1.2528	A	0.5
6	☐	2500.000	2454.106	10865364.28	2.4660	A	0.5
7	☐	5000.000	5027.299	21503219.68	5.0517	A	0.7
8	☐			5144.39	0.0015	P	18.3

$$y = 0.0010 * x + 4.4434E-005$$

$$R = 0.9999$$

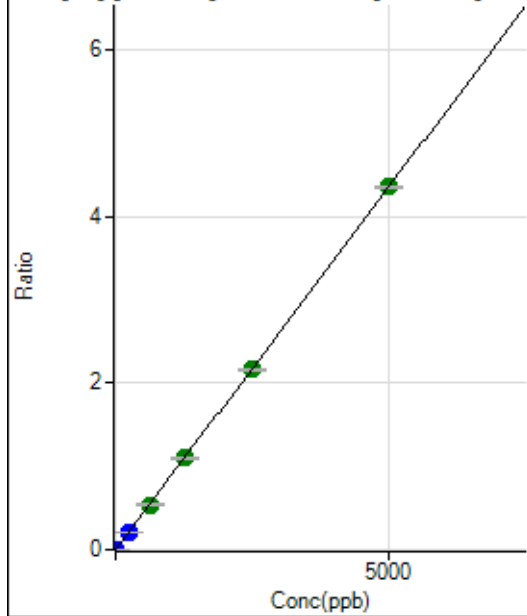
$$DL = 0.02032$$

$$BEC = 0.04422$$

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	156.67	0.0000	P	10.7
2	☐	1.000	0.848	3544.96	0.0008	P	2.6
3	☐	250.000	231.420	906673.78	0.2013	P	1.3
4	☐	625.000	616.591	2404369.98	0.5364	A	2.4
5	☐	1250.000	1264.055	4885173.82	1.0995	A	1.4
6	☐	2500.000	2482.761	9515378.40	2.1596	A	0.5
7	☐	5000.000	5007.086	18539546.81	4.3553	A	0.7
8	☐			4214.04	0.0012	P	12.7

$$y = 8.6983E-004 * x + 3.4398E-005$$

$$R = 1.0000$$

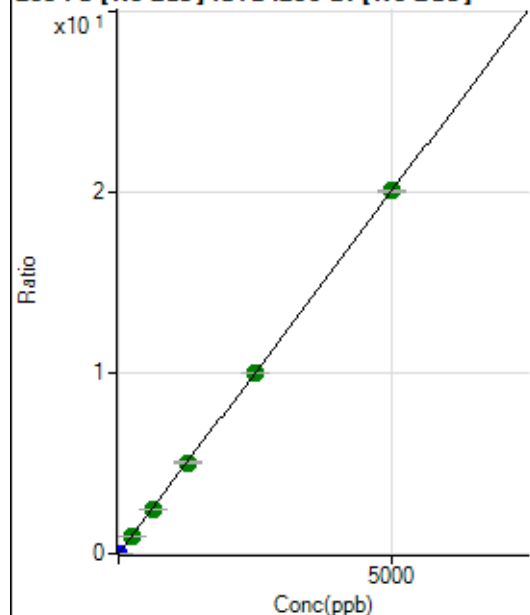
$$DL = 0.01274$$

$$BEC = 0.03955$$

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	738.90	0.0002	P	1.7
2	☐	1.000	0.867	16694.18	0.0036	P	0.9
3	☐	250.000	241.461	4358847.09	0.9679	A	1.2
4	☐	625.000	611.437	10987120.96	2.4508	A	1.8
5	☐	1250.000	1254.603	22341971.61	5.0286	A	1.0
6	☐	2500.000	2488.495	43945838.99	9.9740	A	0.4
7	☐	5000.000	5006.724	85417695.25	20.0669	A	0.8
8	☐			19912.74	0.0058	P	16.1

$$y = 0.0040 * x + 1.6213E-004$$

$$R = 1.0000$$

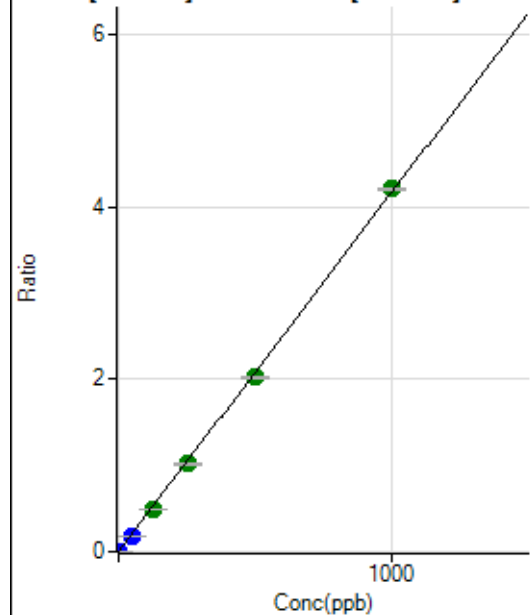
$$DL = 0.002011$$

$$BEC = 0.04045$$

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	5.55	0.0000	P	69.3
2	☐	1.000	0.772	14752.84	0.0032	P	2.2
3	☐	50.000	41.618	779946.14	0.1732	P	1.1
4	☐	125.000	117.118	2184817.15	0.4874	A	1.8
5	☐	250.000	243.867	4508828.54	1.0148	A	2.0
6	☐	500.000	485.028	8892850.15	2.0183	A	0.7
7	☐	1000.000	1010.424	17897609.73	4.2046	A	0.5
8	☐			2024.63	0.0006	P	30.3

$$y = 0.0042 * x + 1.2183E-006$$

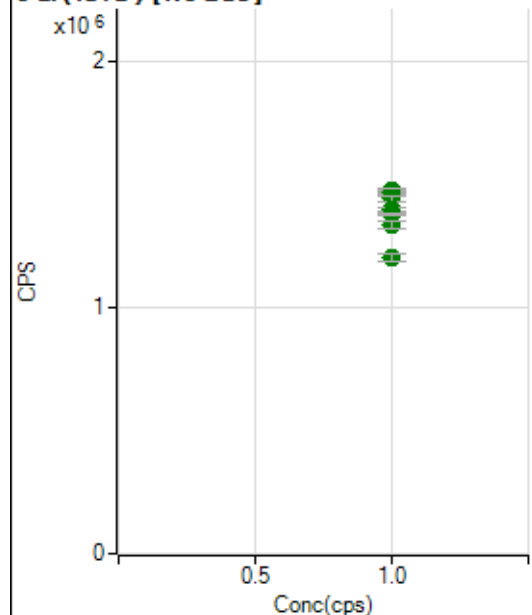
$$R = 0.9998$$

$$DL = 0.0006088$$

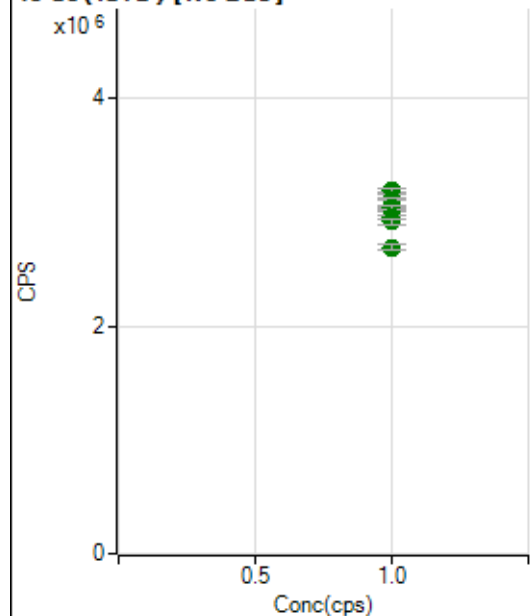
$$BEC = 0.0002928$$

Weight: <None>

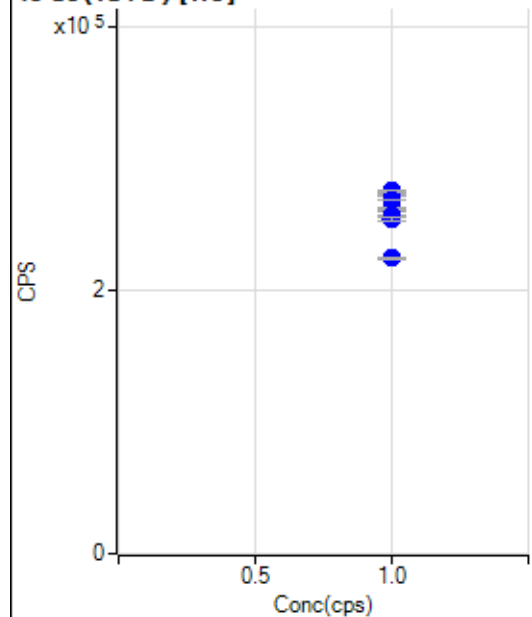
Min Conc: 0

6 Li (ISTD) [No Gas]

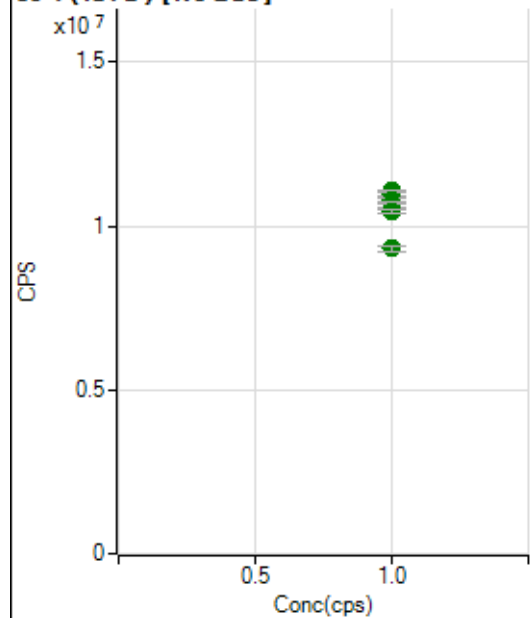
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1464835.93		A	0.8
2	☐	1.000		1471099.04		A	0.2
3	☐	1.000		1469285.79		A	1.8
4	☐	1.000		1438857.48		A	1.7
5	☐	1.000		1392311.99		A	1.1
6	☐	1.000		1377684.68		A	0.7
7	☐	1.000		1334481.59		A	1.9
8	☐	1.000		1200654.32		A	2.1

45 Sc (ISTD) [No Gas]

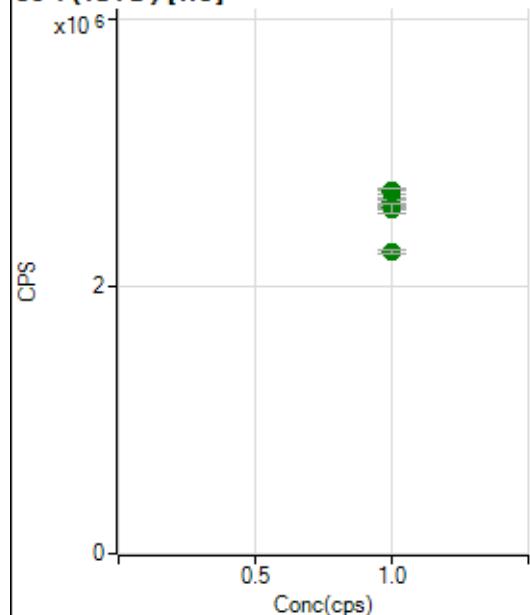
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3170597.35		A	0.5
2	☐	1.000		3188904.29		A	1.3
3	☐	1.000		3118381.21		A	0.5
4	☐	1.000		3031130.06		A	1.0
5	☐	1.000		3042215.09		A	0.6
6	☐	1.000		2961938.22		A	1.1
7	☐	1.000		2919877.59		A	1.5
8	☐	1.000		2692659.25		A	1.6

45 Sc (ISTD) [He]

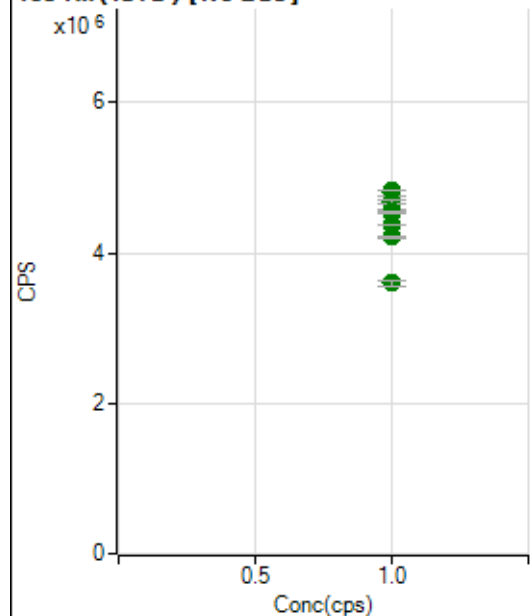
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		272966.46		P	0.6
2	☐	1.000		275743.74		P	0.2
3	☐	1.000		268946.09		P	0.5
4	☐	1.000		261463.14		P	1.3
5	☐	1.000		261883.21		P	0.5
6	☐	1.000		257351.39		P	0.4
7	☐	1.000		254311.45		P	1.6
8	☐	1.000		224869.95		P	0.6

89 Y (ISTD) [No Gas]

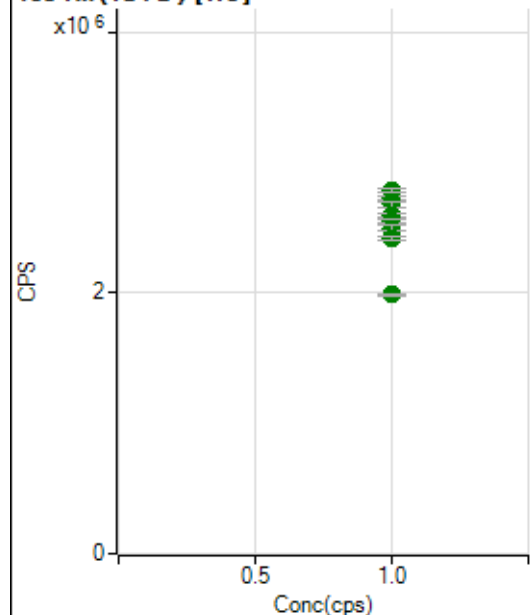
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10967284.49		A	1.1
2	☐	1.000		11070747.61		A	0.6
3	☐	1.000		10787560.39		A	1.1
4	☐	1.000		10657888.94		A	1.6
5	☐	1.000		10676081.71		A	1.6
6	☐	1.000		10698198.17		A	0.4
7	☐	1.000		10436187.00		A	0.9
8	☐	1.000		9309278.75		A	1.8

89 Y (ISTD) [He]

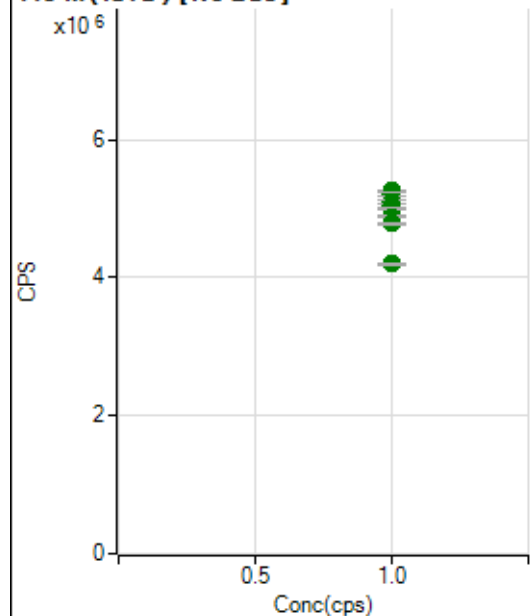
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2708973.92		A	0.9
2	☐	1.000		2713560.24		A	1.6
3	☐	1.000		2662877.29		A	0.1
4	☐	1.000		2627415.01		A	1.2
5	☐	1.000		2626654.28		A	1.4
6	☐	1.000		2581546.67		A	0.6
7	☐	1.000		2583774.62		A	2.8
8	☐	1.000		2261081.95		A	1.1

103 Rh (ISTD) [No Gas]

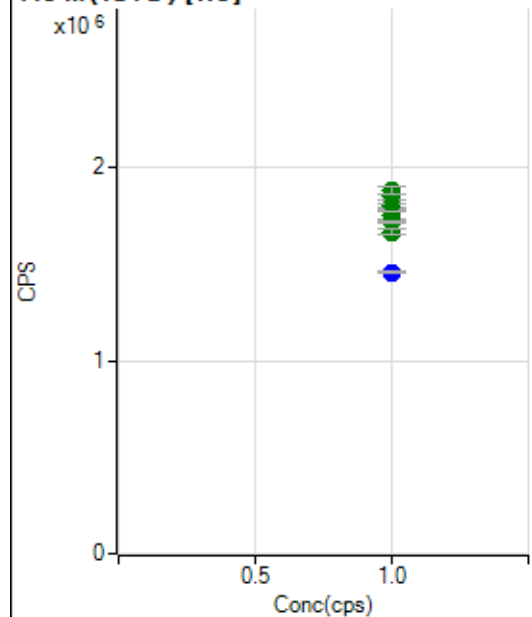
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4798422.84		A	1.5
2	☐	1.000		4827126.60		A	0.1
3	☐	1.000		4688538.58		A	1.0
4	☐	1.000		4555506.49		A	0.8
5	☐	1.000		4538166.22		A	0.8
6	☐	1.000		4379348.89		A	0.3
7	☐	1.000		4212250.35		A	0.7
8	☐	1.000		3602216.54		A	2.0

103 Rh (ISTD) [He]

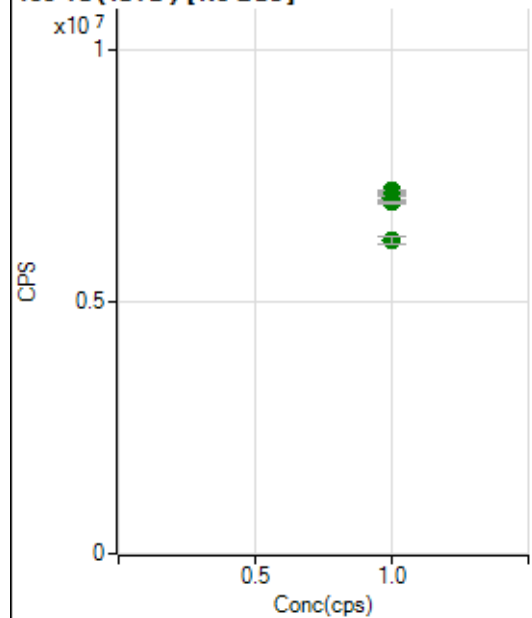
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2728645.13		A	1.0
2	☐	1.000		2782519.96		A	1.0
3	☐	1.000		2679443.12		A	1.6
4	☐	1.000		2600338.59		A	1.2
5	☐	1.000		2549229.98		A	0.9
6	☐	1.000		2497717.83		A	1.4
7	☐	1.000		2413771.96		A	1.1
8	☐	1.000		1985335.11		A	0.8

115 In (ISTD) [No Gas]

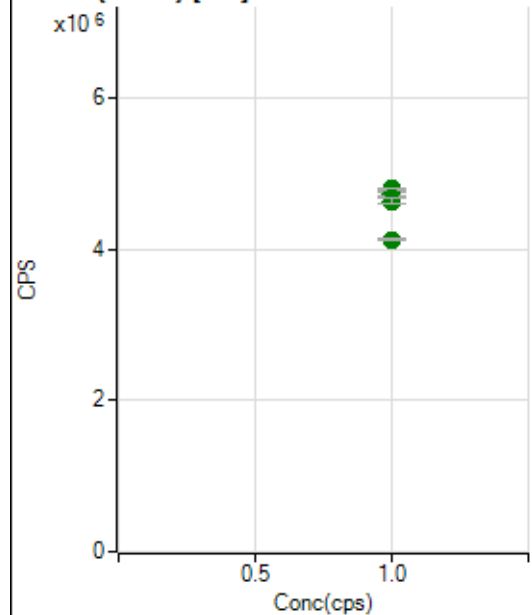
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5254242.21		A	0.2
2	☐	1.000		5202337.35		A	1.2
3	☐	1.000		5100413.28		A	1.3
4	☐	1.000		5042031.27		A	0.9
5	☐	1.000		5003108.13		A	0.8
6	☐	1.000		4882974.20		A	0.4
7	☐	1.000		4782981.51		A	0.6
8	☐	1.000		4191483.36		A	1.1

115 In (ISTD) [He]

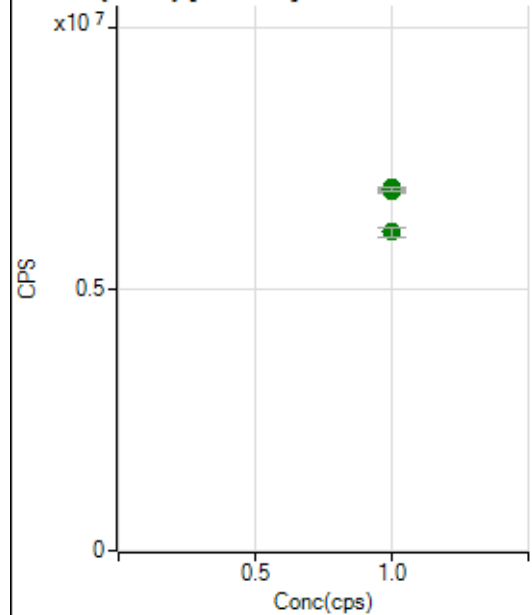
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1851254.88		A	1.5
2	☐	1.000		1879927.61		A	2.2
3	☐	1.000		1802522.43		A	1.1
4	☐	1.000		1780351.94		A	0.6
5	☐	1.000		1755128.30		A	2.6
6	☐	1.000		1719239.76		A	0.9
7	☐	1.000		1668618.81		A	1.4
8	☐	1.000		1456979.37		P	0.7

159 Tb (ISTD) [No Gas]

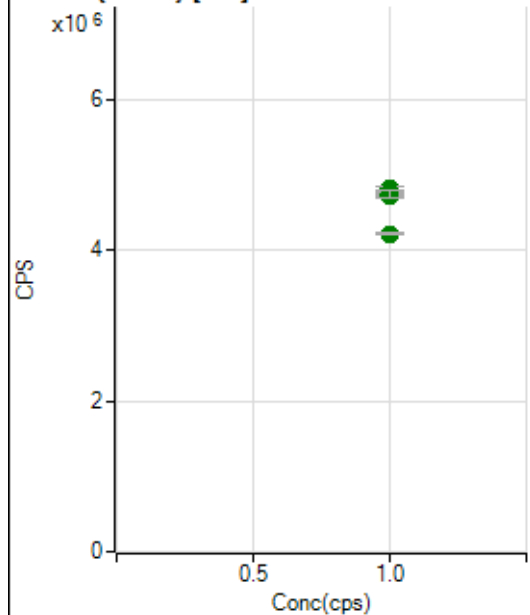
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7137463.09		A	0.2
2	☐	1.000		7188699.27		A	0.2
3	☐	1.000		7068570.17		A	1.4
4	☐	1.000		6971198.99		A	0.4
5	☐	1.000		7040529.96		A	0.9
6	☐	1.000		7087691.42		A	0.4
7	☐	1.000		6970510.45		A	0.5
8	☐	1.000		6207175.39		A	2.4

159 Tb (ISTD) [He]

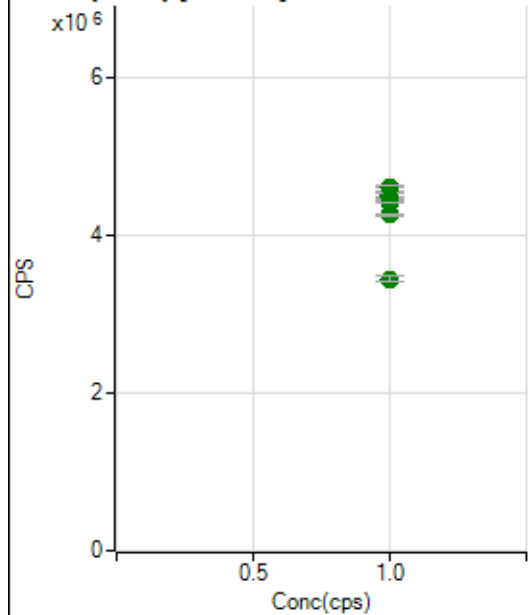
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4707425.14		A	0.2
2	☐	1.000		4798443.50		A	0.5
3	☐	1.000		4741405.21		A	2.1
4	☐	1.000		4724136.63		A	1.2
5	☐	1.000		4790744.93		A	0.4
6	☐	1.000		4682908.61		A	0.6
7	☐	1.000		4640034.48		A	1.6
8	☐	1.000		4131935.11		A	0.8

165 Ho (ISTD) [No Gas]

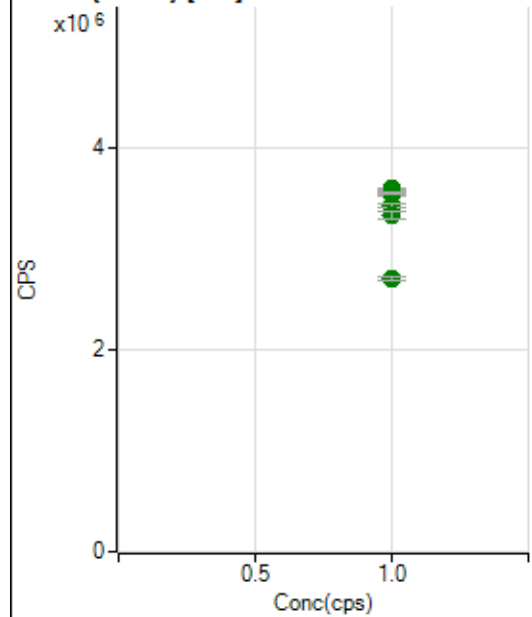
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6892786.70		A	0.8
2	☐	1.000		6946595.24		A	0.9
3	☐	1.000		6888739.00		A	0.7
4	☐	1.000		6872090.73		A	0.9
5	☐	1.000		6889673.09		A	1.4
6	☐	1.000		6906156.35		A	0.7
7	☐	1.000		6910248.44		A	1.1
8	☐	1.000		6096207.55		A	3.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4767948.50		A	0.8
2	☐	1.000		4757603.72		A	1.4
3	☐	1.000		4735052.12		A	1.2
4	☐	1.000		4769162.15		A	1.2
5	☐	1.000		4821680.73		A	1.2
6	☐	1.000		4789883.71		A	0.9
7	☐	1.000		4744933.12		A	2.0
8	☐	1.000		4221475.88		A	0.7

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4558334.38		A	1.6
2	☐	1.000		4592826.81		A	1.6
3	☐	1.000		4503765.32		A	1.4
4	☐	1.000		4483709.45		A	1.4
5	☐	1.000		4443257.89		A	0.9
6	☐	1.000		4406052.99		A	0.3
7	☐	1.000		4256754.66		A	0.5
8	☐	1.000		3439314.74		A	2.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3583306.02		A	0.7
2	☐	1.000		3594440.47		A	0.8
3	☐	1.000		3540697.00		A	1.4
4	☐	1.000		3543118.04		A	0.7
5	☐	1.000		3554335.75		A	0.6
6	☐	1.000		3435804.43		A	1.0
7	☐	1.000		3331883.18		A	2.1
8	☐	1.000		2705969.26		A	0.8

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7042823 MS.b

Acq. Date-Time 2023-04-28 12:20:15

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		5506	55064.67			0.849	5.000
24		61506	615055.03			0.469	5.000
25		8406	84062.29			0.457	5.000
26		9566	95656.56			0.369	5.000
59		45990	459904.98			0.440	5.000
113		5949	59485.01			0.237	5.000
115		75675	756752.81			0.325	5.000
206		17824	178236.93			0.405	5.000
207		16638	166376.57			0.602	5.000
208		38789	387889.56			0.399	5.000
220		0	1.40			15.972	

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

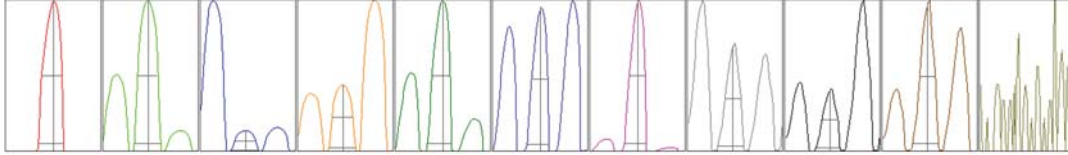
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5574	5500	5443	5503	5512
24	61288	61476	61171	61839	61754
25	8418	8349	8401	8407	8456
26	9599	9560	9523	9542	9604
59	46086	45857	45703	46182	46124
113	5928	5966	5945	5947	5956
115	75391	76035	75541	75784	75625
206	17814	17731	17782	17890	17901
207	16471	16685	16658	16736	16639
208	38716	38703	38623	38913	38989

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	9353.95	9.05	8.90 - 9.10	
24	99588.93	23.95	23.90 - 24.10	
25	13127.82	24.95	24.90 - 25.10	
26	15196.43	25.95	25.90 - 26.10	
59	84170.71	59.05	58.90 - 59.10	
113	12354.55	113.05	112.90 - 113.10	
115	157782.85	115.05	114.90 - 115.10	
206	36471.29	205.95	205.90 - 206.10	
207	33324.64	206.95	206.90 - 207.10	
208	80406.45	207.95	207.90 - 208.10	
220	0.00	219.65	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.63	0.789	0.900	
24	0.65	0.830	0.900	
25	0.67	0.836	0.900	
26	0.67	0.833	0.900	
59	0.57	0.767	0.900	
113	0.50	0.695	0.900	
115	0.50	0.702	0.900	
206	0.50	0.813	0.900	
207	0.51	0.750	0.900	
208	0.49	0.816	0.900	
220	0.25	0.250		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	8.8 V	Deflect	16.4 V
Extract 2	-90.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 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	170 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15429	154285.30			0.616	
89		23747	237474.30			0.664	
205		18942	189424.19			0.513	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15509	15553	15354	15368	15359
89	23895	23897	23779	23585	23580
205	19024	19018	18996	18856	18819

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

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

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.3 V	Deflect	3.0 V
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US EPA Tune Check Report

Extract 2	-95.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 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	190 V		

QP Parameters

Mass Gain	123	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-1.1 mm	Torch V	1.0 mm
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EM

Discriminator	3.2 mV	Analog HV	2278 V	Pulse HV	1562 V
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