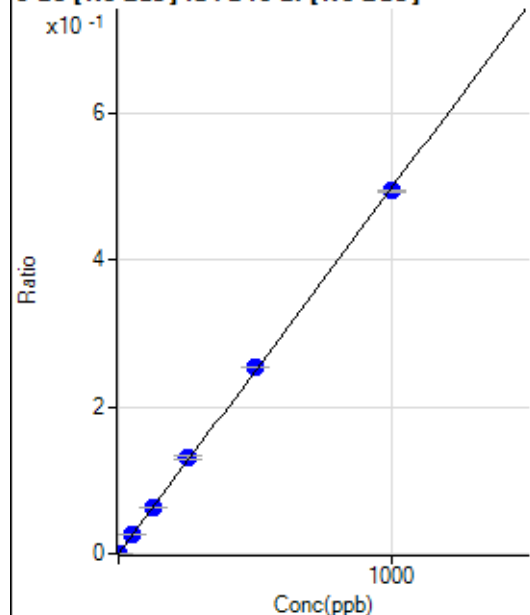


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012721 MS.b\
Analysis File: P8012721 MS.batch.bin
DA Date-Time: 2021-01-28 16:10:06
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2021-01-27 12:21:14
2	004CALS.d	S01	2021-01-27 12:24:25
3	005CALS.d	S02	2021-01-27 12:27:35
4	006CALS.d	S03	2021-01-27 12:30:46
5	007CALS.d	S04	2021-01-27 12:33:55
6	008CALS.d	S05	2021-01-27 12:37:01
7	009CALS.d	S06	2021-01-27 12:40:00
8	010CALS.d	S07	2021-01-27 12:43:00
9	011CALS.d	S08	2021-01-27 12:45:59

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	69.32	0.0001	P	13.7
2	☐	0.100	0.082	119.98	0.0001	P	10.0
3	☐	1.000	0.957	637.89	0.0005	P	6.8
4	☐	50.000	51.681	30230.80	0.0258	P	0.8
5	☐	125.000	125.703	75043.79	0.0627	P	0.7
6	☐	250.000	261.393	150119.60	0.1302	P	4.6
7	☐	500.000	508.481	293321.51	0.2533	P	0.2
8	☐	1000.000	992.739	591007.29	0.4945	P	0.4
9	☐			477.91	0.0004	P	21.4

$$y = 4.9803\text{E-}004 * x + 5.9187\text{E-}005$$

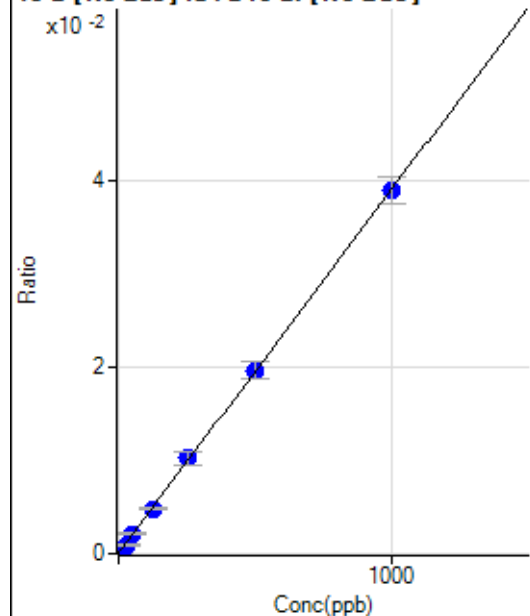
$$R = 0.9999$$

$$DL = 0.04898$$

$$BEC = 0.1188$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	71.32	0.0001	P	19.2
2	☐	2.500	2.818	204.63	0.0002	P	11.6
3	☐	25.000	22.040	1096.50	0.0009	P	8.7
4	☐	50.000	52.460	2471.06	0.0021	P	7.6
5	☐	125.000	122.637	5803.34	0.0049	P	7.6
6	☐	250.000	260.699	11785.08	0.0102	P	12.9
7	☐	500.000	502.578	22771.76	0.0197	P	9.4
8	☐	1000.000	996.282	46604.35	0.0390	P	7.3
9	☐			8412.09	0.0070	P	10.3

$$y = 3.9058\text{E-}005 * x + 6.0883\text{E-}005$$

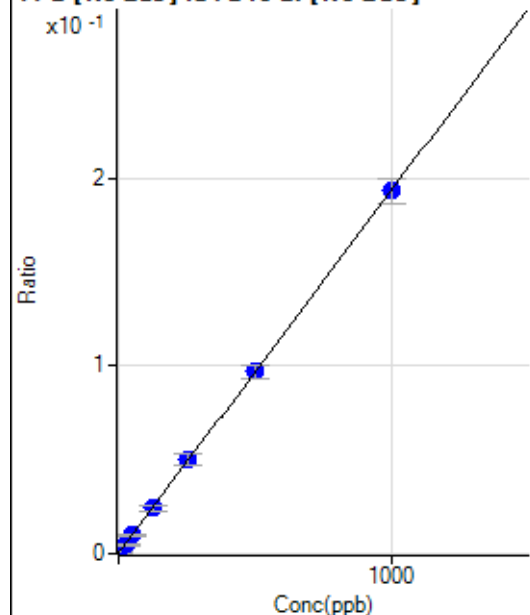
$$R = 0.9999$$

$$DL = 0.9$$

$$BEC = 1.559$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	345.27	0.0003	P	1.8
2	☐	2.500	2.153	851.19	0.0007	P	11.5
3	☐	25.000	23.103	5663.32	0.0048	P	8.3
4	☐	50.000	50.140	11694.35	0.0100	P	6.9
5	☐	125.000	123.647	28930.00	0.0242	P	9.7
6	☐	250.000	259.479	58028.89	0.0504	P	13.1
7	☐	500.000	499.353	111954.48	0.0968	P	8.4
8	☐	1000.000	998.164	230993.33	0.1932	P	7.2
9	☐			41445.95	0.0343	P	9.8

$$y = 1.9324\text{E-}004 * x + 2.9512\text{E-}004$$

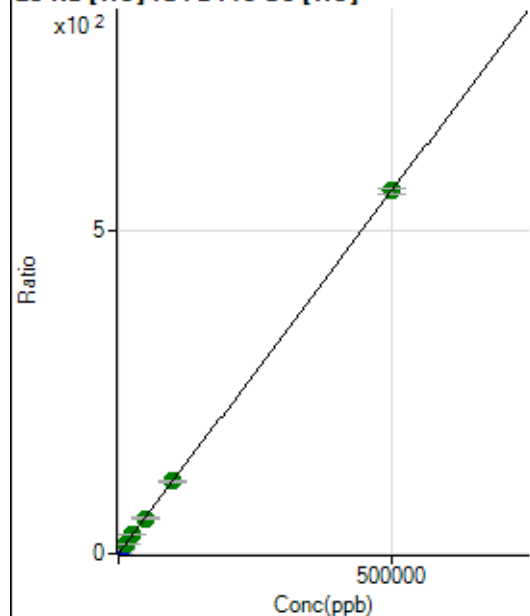
$$R = 0.9999$$

$$DL = 0.08208$$

$$BEC = 1.527$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	23310.72	0.2954	P	5.8
2	☐	50.000	37.205	27877.06	0.3373	P	1.8
3	☐	500.000	489.269	70453.62	0.8458	P	2.9
4	☐	5000.000	5207.345	511844.80	6.1533	P	2.5
5	☐	12500.000	12781.677	1231510.40	14.6738	A	0.6
6	☐	25000.000	25527.544	2450508.04	29.0119	A	0.8
7	☐	50000.000	48297.559	4745928.58	54.6264	A	2.3
8	☐	100000.00	99252.180	9521687.11	111.9463	A	0.8
9	☐	500000.00	500284.32	46409380.90	563.0759	A	1.4

$$y = 0.0011 * x + 0.2954$$

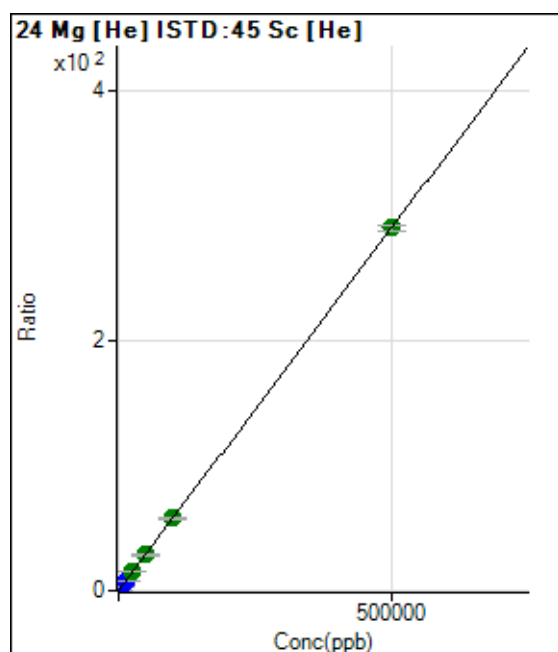
$$R = 1.0000$$

$$DL = 45.89$$

$$BEC = 262.6$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	802.82	0.0102	P	9.7
2	☐	50.000	47.178	3100.42	0.0375	P	7.3
3	☐	500.000	502.239	25119.34	0.3015	P	1.0
4	☐	5000.000	5253.674	254358.46	3.0580	P	2.8
5	☐	12500.000	12994.867	633545.53	7.5489	P	0.6
6	☐	25000.000	25905.514	1270206.04	15.0388	A	1.8
7	☐	50000.000	49347.351	2487927.64	28.6382	A	2.9
8	☐	100000.00	99691.313	4919794.34	57.8444	A	0.9
9	☐	500000.00	500066.81	23910763.73	290.1155	A	1.6

$$y = 5.8013\text{E-}004 * x + 0.0102$$

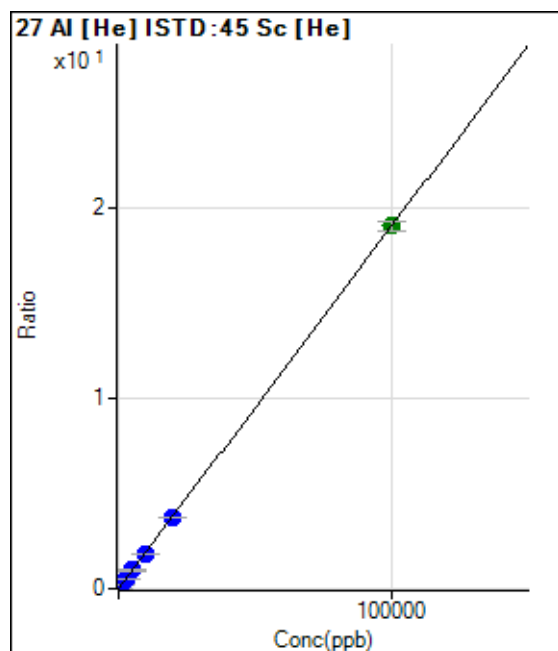
R = 1.0000

DL = 5.094

BEC = 17.5

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	313.72	0.0040	P	3.9
2	☒	2.000					
3	☐	20.000	19.681	643.27	0.0077	P	3.3
4	☐	1000.000	1006.600	16290.39	0.1958	P	2.6
5	☐	2500.000	2480.581	40014.58	0.4768	P	0.9
6	☐	5000.000	5022.580	81194.27	0.9613	P	0.8
7	☐	10000.000	9601.035	159313.93	1.8340	P	3.1
8	☐	20000.000	19702.126	319740.69	3.7594	P	0.8
9	☐	100000.00	100098.76	1572664.06	19.0837	A	2.5

$$y = 1.9061\text{E-}004 * x + 0.0040$$

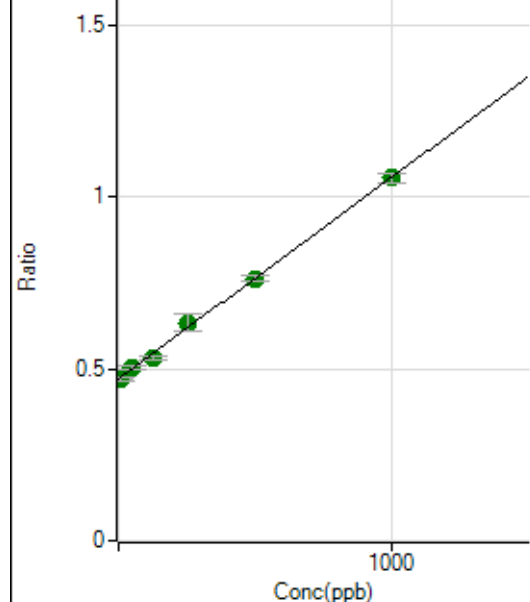
R = 1.0000

DL = 2.464

BEC = 20.84

Weight: <None>

Min Conc: 0

28 Si [No Gas] ISTD:45 Sc [No Gas]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1127875.78	0.4719	A	0.8
2	☐	1.000	8.213	1137795.89	0.4767	A	1.3
3	☐	10.000	-3.586	1138688.70	0.4698	A	2.9
4	☐	50.000	53.603	1193097.25	0.5033	A	3.0
5	☐	125.000	103.215	1308448.98	0.5324	A	1.4
6	☐	250.000	278.653	1511205.28	0.6353	A	8.2
7	☐	500.000	497.495	1830979.27	0.7636	A	2.4
8	☐	1000.000	996.761	2593278.09	1.0564	A	2.5
9	☐			1164297.46	0.4765	A	2.3

$$y = 5.8635E-004 * x + 0.4719$$

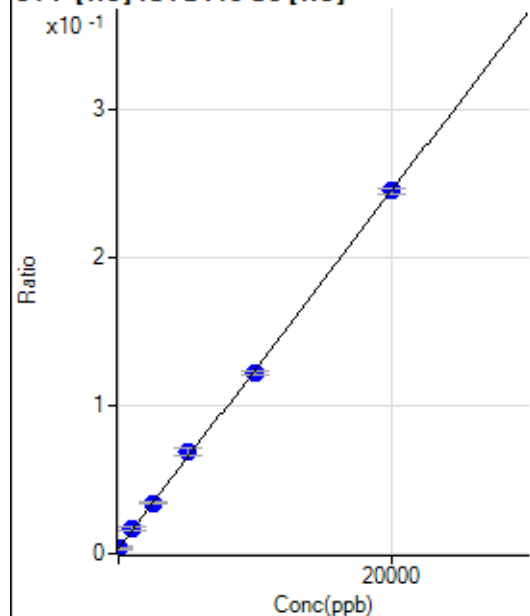
$$R = 0.9991$$

$$DL = 18.62$$

$$BEC = 804.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	55.826	341.68	0.0044	P	26.3
2	☐	0.000	-26.701	277.79	0.0034	P	2.9
3	☐	0.000	-29.125	277.79	0.0033	P	7.8
4	☐	1000.000	1096.852	1405.67	0.0169	P	14.9
5	☐	2500.000	2507.791	2847.58	0.0339	P	3.4
6	☐	5000.000	5420.699	5829.08	0.0691	P	7.4
7	☐	10000.000	9787.026	10576.36	0.1217	P	2.6
8	☐	20000.000	19995.496	20826.59	0.2449	P	1.6
9	☐			327.79	0.0040	P	24.9

$$y = 1.2062E-005 * x + 0.0037$$

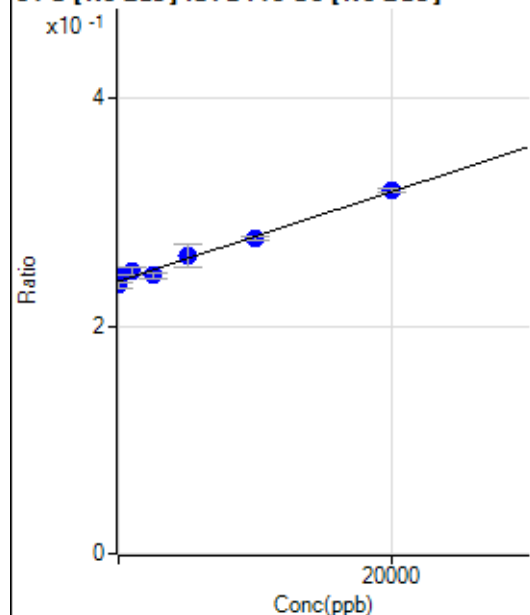
$$R = 0.9997$$

$$DL = 124.5$$

$$BEC = 305.3$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	826.306	580156.09	0.2427	P	1.0
2	☐	0.000	55.711	572098.99	0.2397	P	1.4
3	☐	0.000	-882.017	572124.23	0.2360	P	1.7
4	☐	1000.000	2352.477	589636.75	0.2488	P	3.0
5	☐	2500.000	1344.670	601432.45	0.2448	P	2.0
6	☐	5000.000	5605.698	622341.27	0.2616	P	7.6
7	☐	10000.000	9569.568	664705.96	0.2772	P	1.1
8	☐	20000.000	20140.584	782632.12	0.3188	P	1.1
9	☐			534528.93	0.2188	P	1.8

$$y = 3.9398\text{E-}006 * x + 0.2395$$

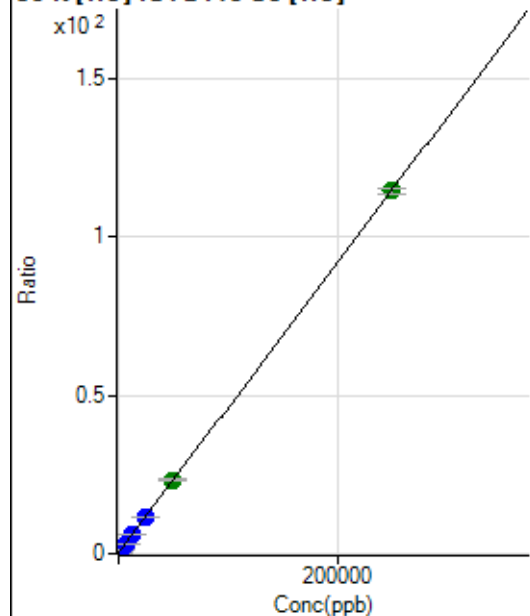
$$R = 0.9926$$

$$DL = 2515$$

$$BEC = 6.079\text{E}+04$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22732.25	0.2879	P	3.6
2	☒	50.000					
3	☐	500.000	458.684	41465.89	0.4977	P	1.2
4	☐	2500.000	2539.650	120590.34	1.4496	P	1.8
5	☐	6250.000	6367.746	268607.71	3.2006	P	0.8
6	☐	12500.000	12931.798	523924.65	6.2030	P	0.5
7	☐	25000.000	24763.860	1008916.26	11.6151	P	3.4
8	☐	50000.000	50412.883	1985684.77	23.3471	A	1.0
9	☐	250000.00	249916.19	9445029.55	114.6014	A	1.8

$$y = 4.5741\text{E-}004 * x + 0.2879$$

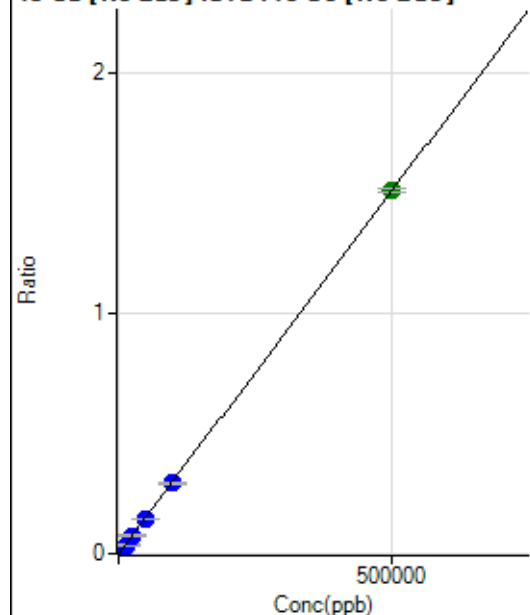
$$R = 1.0000$$

$$DL = 67.13$$

$$BEC = 629.4$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	297.05	0.0001	P	4.8
2	☐	50.000	46.453	630.36	0.0003	P	3.4
3	☐	500.000	457.849	3642.94	0.0015	P	3.4
4	☐	5000.000	4939.194	35556.77	0.0150	P	2.2
5	☐	12500.000	11875.656	88190.46	0.0359	P	1.0
6	☐	25000.000	24927.098	178826.49	0.0752	P	8.4
7	☐	50000.000	48445.698	350148.88	0.1460	P	1.8
8	☐	100000.00	97174.935	718647.83	0.2928	P	1.2
9	☐	500000.00	500740.34	3685627.77	1.5081	A	1.2

$$y = 3.0114\text{E-}006 * x + 1.2426\text{E-}004$$

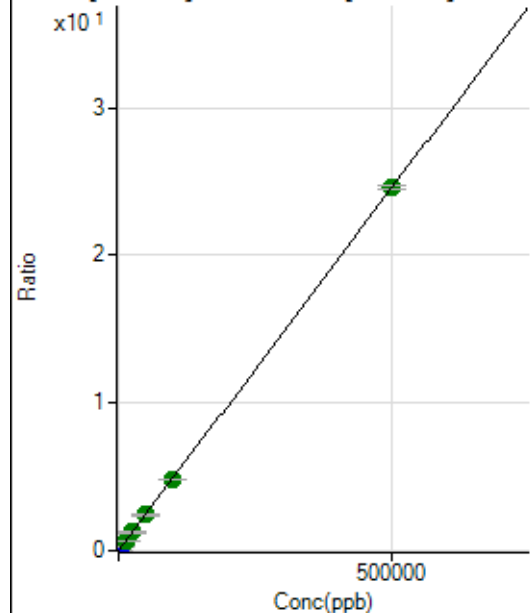
$$R = 1.0000$$

$$DL = 5.912$$

$$BEC = 41.26$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	21555.95	0.0090	P	0.9
2	☐	50.000	45.222	26819.10	0.0112	P	1.8
3	☐	500.000	465.806	77252.63	0.0319	P	1.6
4	☐	5000.000	5049.597	608511.81	0.2567	P	2.9
5	☐	12500.000	12270.446	1501142.48	0.6109	A	1.7
6	☐	25000.000	25517.761	2999361.02	1.2607	A	7.7
7	☐	50000.000	49199.639	5808994.77	2.4223	A	1.7
8	☐	100000.00	97940.709	11814776.82	4.8131	A	1.2
9	☐	500000.00	500471.28	60009881.36	24.5578	A	1.0

$$y = 4.9051\text{E-}005 * x + 0.0090$$

$$R = 1.0000$$

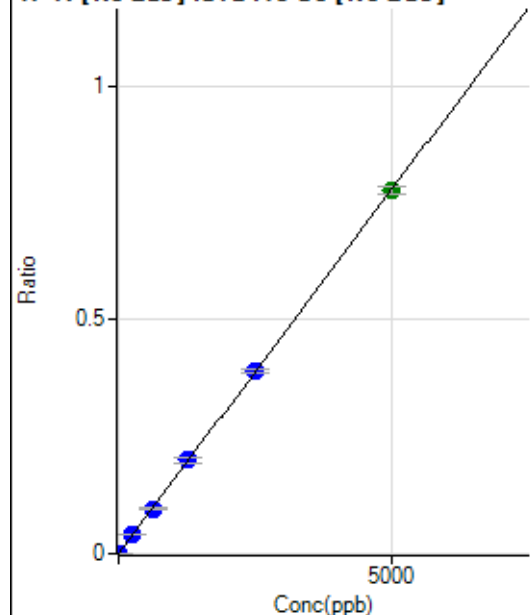
$$DL = 4.96$$

$$BEC = 183.9$$

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	311.13	0.0001	P	12.9
2	☐	0.500	0.623	541.69	0.0002	P	11.8
3	☐	5.000	5.388	2347.47	0.0010	P	1.7
4	☐	250.000	256.924	95029.00	0.0401	P	3.1
5	☐	625.000	618.329	236659.92	0.0963	P	1.2
6	☐	1250.000	1284.496	475763.18	0.1999	P	7.0
7	☐	2500.000	2513.686	937826.33	0.3911	P	1.6
8	☐	5000.000	4985.020	1903480.08	0.7754	A	2.1
9	☐			1047.29	0.0004	P	11.8

$$y = 1.5553\text{E-}004 * x + 1.3021\text{E-}004$$

$$R = 1.0000$$

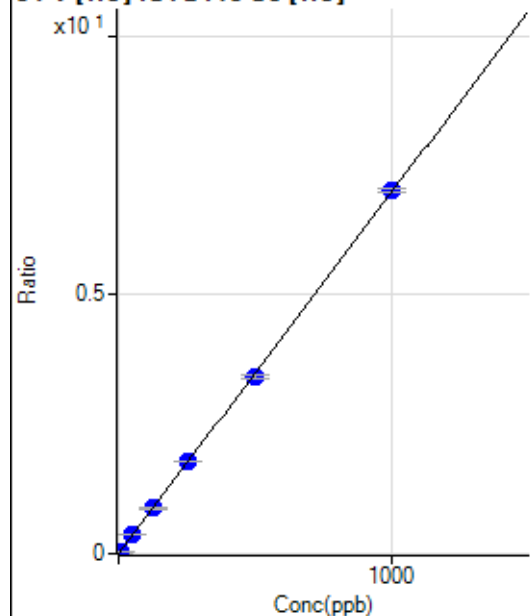
$$DL = 0.3248$$

$$BEC = 0.8372$$

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	11.11	0.0001	P	42.5
2	☐	0.500	0.459	276.67	0.0033	P	8.8
3	☐	5.000	4.835	2823.64	0.0339	P	3.3
4	☐	50.000	51.321	29816.58	0.3585	P	3.0
5	☐	125.000	125.258	73406.94	0.8747	P	0.6
6	☐	250.000	254.604	150153.44	1.7777	P	0.5
7	☐	500.000	490.140	297294.55	3.4222	P	2.8
8	☐	1000.000	1003.681	596010.68	7.0077	P	1.2
9	☐			80.00	0.0010	P	26.3

$$y = 0.0070 * x + 1.3965\text{E-}004$$

$$R = 0.9999$$

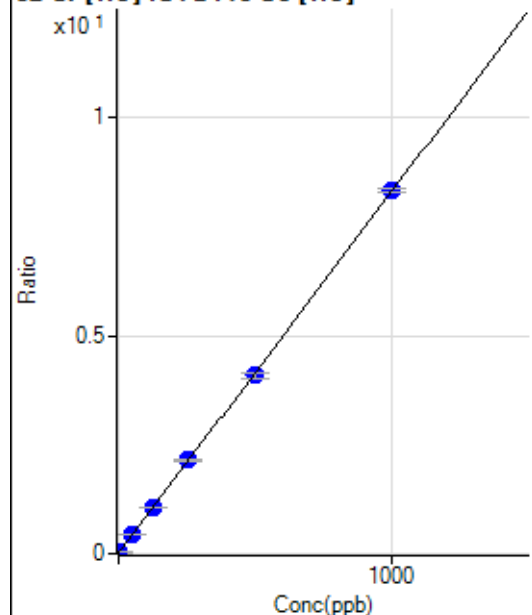
$$DL = 0.02549$$

$$BEC = 0.02$$

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	594.46	0.0075	P	10.9
2	☒	0.200					
3	☐	2.000	1.911	1950.16	0.0234	P	2.8
4	☐	50.000	51.435	36150.10	0.4346	P	2.8
5	☐	125.000	126.444	88740.81	1.0574	P	1.5
6	☐	250.000	257.884	181475.72	2.1487	P	1.1
7	☐	500.000	491.075	354868.03	4.0849	P	2.7
8	☐	1000.000	1002.239	708397.99	8.3291	P	1.1
9	☐			4367.37	0.0530	P	3.1

$$y = 0.0083 * x + 0.0075$$

$$R = 0.9999$$

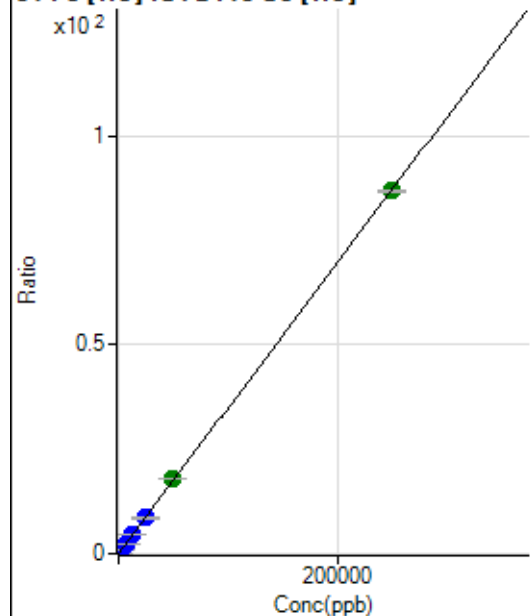
$$DL = 0.2984$$

$$BEC = 0.9084$$

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	338.90	0.0043	P	8.4
2	☐	5.000	4.328	479.65	0.0058	P	17.2
3	☐	50.000	51.059	1837.19	0.0221	P	7.7
4	☐	2500.000	2609.848	75870.74	0.9121	P	2.6
5	☐	6250.000	6429.445	188055.05	2.2407	P	0.3
6	☐	12500.000	13091.923	384984.10	4.5582	P	0.8
7	☐	25000.000	24840.590	750893.72	8.6449	P	3.5
8	☐	50000.000	51574.203	1526196.94	17.9439	A	1.5
9	☐	250000.00	249665.91	7158729.62	86.8484	A	0.8

$$y = 3.4784E-004 * x + 0.0043$$

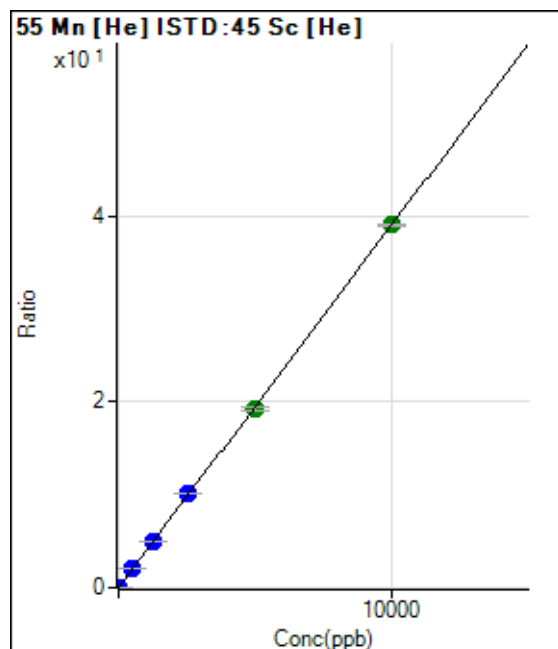
$$R = 1.0000$$

$$DL = 3.121$$

$$BEC = 12.34$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	101.11	0.0013	P	7.9
2	☐	0.100	0.105	140.00	0.0017	P	8.2
3	☐	1.000	0.906	401.12	0.0048	P	13.5
4	☐	500.000	514.213	167075.35	2.0087	P	3.2
5	☐	1250.000	1271.545	416703.77	4.9652	P	0.7
6	☐	2500.000	2583.635	851997.24	10.0874	P	0.6
7	☐	5000.000	4933.789	1673338.95	19.2621	A	2.7
8	☐	10000.000	10008.793	3323364.22	39.0742	A	0.5
9	☐			2085.73	0.0253	P	1.7

$$y = 0.0039 * x + 0.0013$$

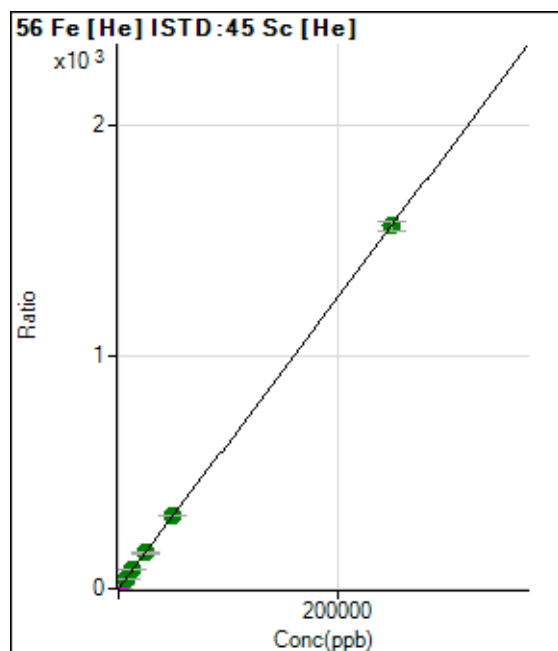
$$R = 0.9999$$

$$DL = 0.07754$$

$$BEC = 0.3284$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2357.64	0.0298	P	1.3
2	☐	5.000	4.761	4928.71	0.0596	P	3.3
3	☐	50.000	50.387	28768.08	0.3453	P	1.7
4	☐	2500.000	2598.027	1355546.33	16.2961	M	2.6
5	☐	6250.000	6390.728	3360679.56	40.0423	A	1.0
6	☐	12500.000	12890.944	6820463.29	80.7402	A	0.5
7	☐	25000.000	24595.592	13379849.72	154.0231	A	2.9
8	☐	50000.000	50343.918	26812487.87	315.2337	A	0.9
9	☐	250000.00	249947.61	128962795.4	1,564.955	A	2.6

$$y = 0.0063 * x + 0.0298$$

$$R = 1.0000$$

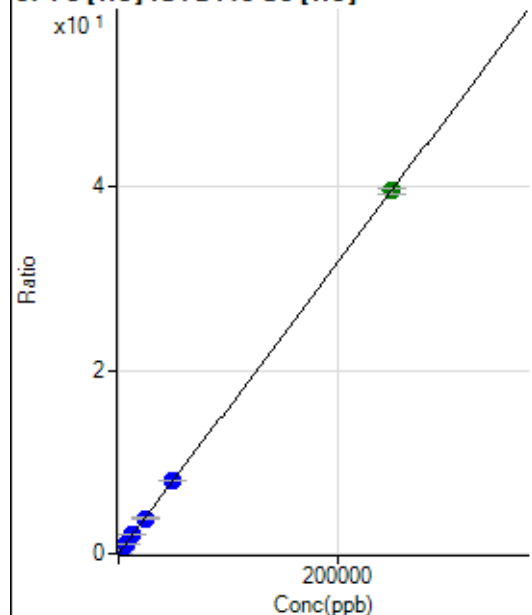
$$DL = 0.1913$$

$$BEC = 4.766$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	107.41	0.0014	P	7.4
2	☒	5.000					
3	☐	50.000	50.622	781.52	0.0094	P	7.7
4	☐	2500.000	2553.895	33736.51	0.4056	P	3.4
5	☐	6250.000	6279.312	83533.73	0.9953	P	0.6
6	☐	12500.000	12886.220	172386.39	2.0412	P	1.2
7	☐	25000.000	24404.814	335722.42	3.8645	P	2.7
8	☐	50000.000	50268.618	676911.67	7.9586	P	0.3
9	☐	250000.00	249985.21	3261375.19	39.5725	A	1.9

$$y = 1.5829\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

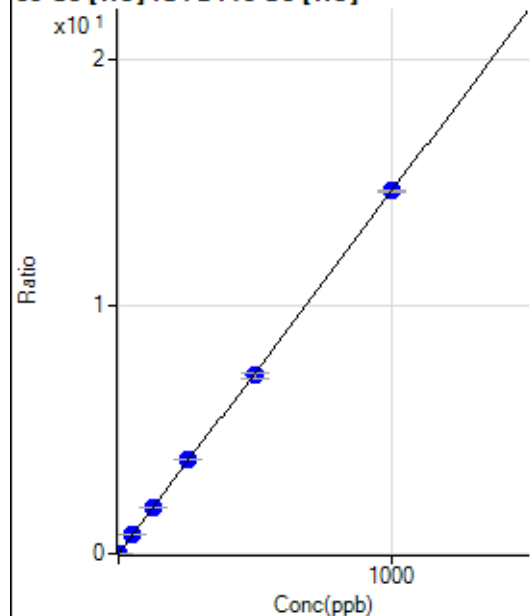
$$DL = 1.903$$

$$BEC = 8.604$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	35.56	0.0004	P	46.6
2	☐	0.100	0.119	181.11	0.0022	P	10.9
3	☐	1.000	0.984	1235.62	0.0148	P	9.7
4	☐	50.000	51.728	63025.42	0.7576	P	2.1
5	☐	125.000	127.593	156782.30	1.8681	P	1.5
6	☐	250.000	260.533	322132.16	3.8141	P	0.9
7	☐	500.000	491.434	624939.02	7.1939	P	2.9
8	☐	1000.000	1001.239	1246544.48	14.6563	P	0.8
9	☐			1903.48	0.0231	P	2.1

$$y = 0.0146 * x + 4.4565\text{E-}004$$

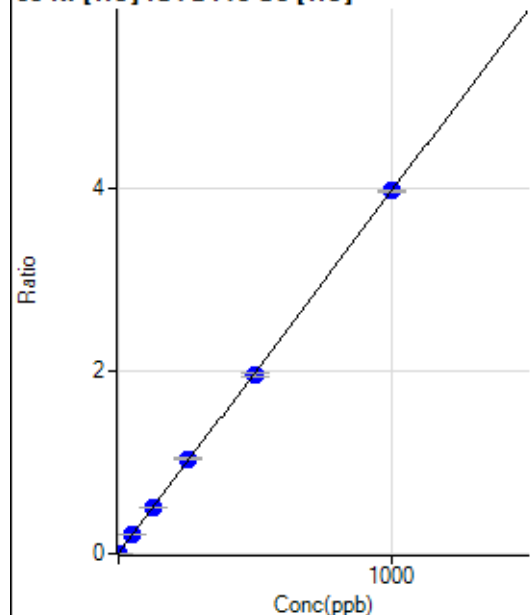
$$R = 0.9999$$

$$DL = 0.04255$$

$$BEC = 0.03045$$

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	252.23	0.0032	P	10.0
2	☒	0.100					
3	☐	1.000	1.159	648.91	0.0078	P	7.4
4	☐	50.000	53.046	17730.05	0.2132	P	4.2
5	☐	125.000	127.614	42666.06	0.5084	P	1.5
6	☐	250.000	260.246	87274.08	1.0334	P	1.5
7	☐	500.000	493.219	169879.58	1.9556	P	3.0
8	☐	1000.000	1000.350	337077.39	3.9630	P	0.3
9	☐			1617.89	0.0196	P	6.1

$$y = 0.0040 * x + 0.0032$$

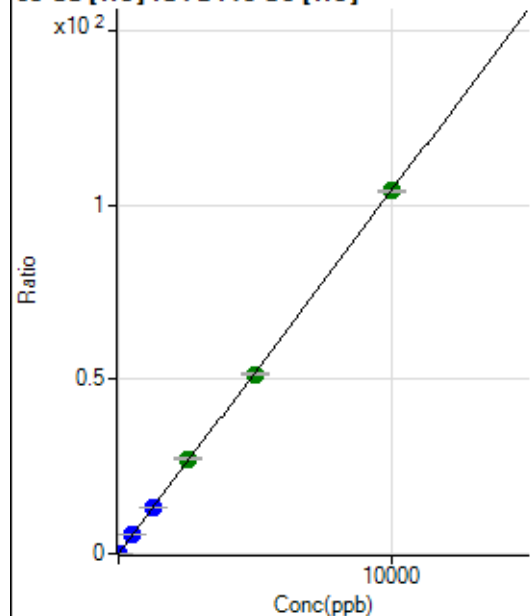
$$R = 0.9999$$

$$DL = 0.2428$$

$$BEC = 0.8081$$

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	609.80	0.0077	P	4.9
2	☒	0.200					
3	☐	2.000	1.879	2273.33	0.0273	P	4.5
4	☐	500.000	525.150	455309.20	5.4739	P	2.9
5	☐	1250.000	1291.130	1128553.28	13.4467	P	0.5
6	☐	2500.000	2615.372	2299931.46	27.2304	A	0.7
7	☐	5000.000	4942.762	4471008.22	51.4556	A	1.6
8	☐	10000.000	9993.377	8847630.42	104.0262	A	0.6
9	☐			6371.23	0.0773	P	2.8

$$y = 0.0104 * x + 0.0077$$

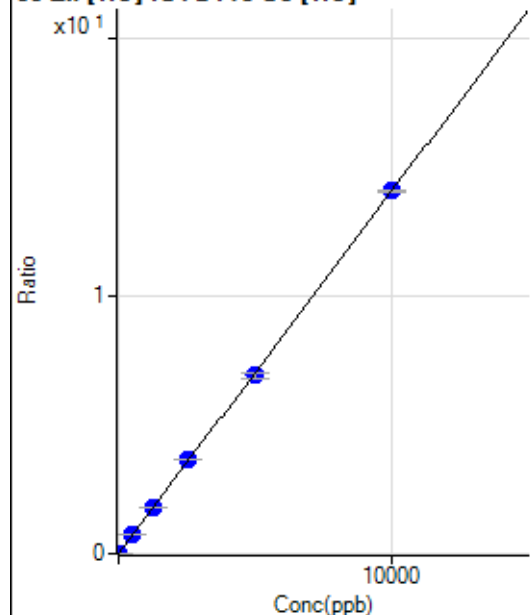
$$R = 0.9999$$

$$DL = 0.1093$$

$$BEC = 0.741$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	78.89	0.0010	P	16.6
2	☒	0.200					
3	☐	2.000	1.904	306.67	0.0037	P	12.5
4	☐	500.000	518.744	60805.33	0.7309	P	1.5
5	☐	1250.000	1270.664	150131.74	1.7889	P	0.7
6	☐	2500.000	2607.736	309963.04	3.6701	P	1.1
7	☐	5000.000	4912.993	600617.39	6.9137	P	2.6
8	☐	10000.000	10013.049	1198357.83	14.0896	P	0.4
9	☐			1370.08	0.0166	P	1.7

$$y = 0.0014 * x + 0.0010$$

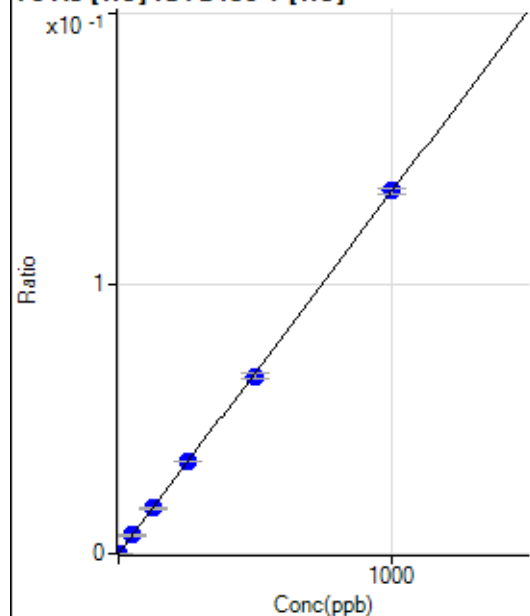
$$R = 0.9999$$

$$DL = 0.3551$$

$$BEC = 0.7127$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	-29.33	-0.0001	P	-39.
2	☒	0.100					
3	☐	1.000	0.720	28.33	0.0000	P	15.4
4	☐	50.000	50.555	4204.79	0.0067	P	3.5
5	☐	125.000	125.265	10560.41	0.0167	P	1.5
6	☐	250.000	256.029	21843.72	0.0343	P	0.9
7	☐	500.000	490.974	42874.88	0.0658	P	2.6
8	☐	1000.000	1002.945	86518.92	0.1344	P	1.6
9	☐			-11.67	0.0000	P	-48.

$$y = 1.3406E-004 * x - 5.0616E-005$$

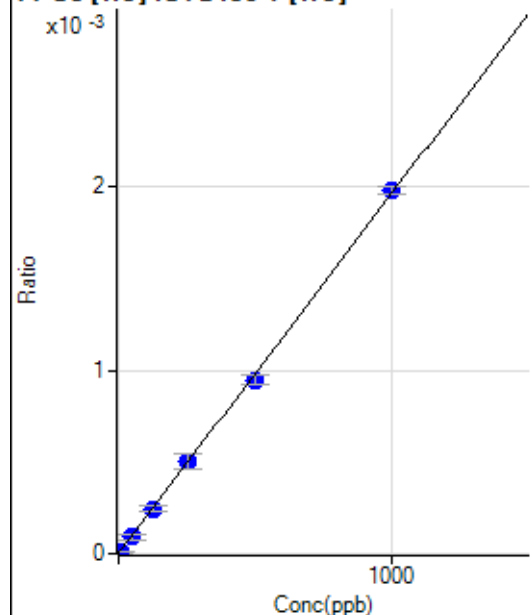
$$R = 0.9999$$

$$DL = 0.4428$$

$$BEC = -0.3776$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.
2	☐	0.500	1.735	3.33	0.0000	P	100.
3	☐	5.000	3.572	5.56	0.0000	P	35.3
4	☐	50.000	46.320	57.78	0.0001	P	31.2
5	☐	125.000	122.100	152.23	0.0002	P	13.0
6	☐	250.000	255.572	320.01	0.0005	P	16.1
7	☐	500.000	481.906	617.80	0.0009	P	5.9
8	☐	1000.000	1008.207	1273.40	0.0020	P	2.2
9	☐			2.22	0.0000	P	173.

$$y = 1.9600\text{E-}006 * x + 1.9984\text{E-}006$$

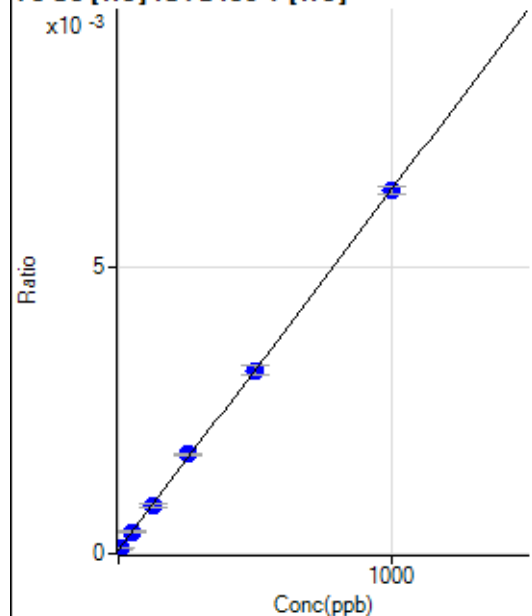
$$R = 0.9998$$

$$DL = 5.298$$

$$BEC = 1.02$$

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	36.67	0.0001	P	26.7
2	☐	0.500	1.766	45.67	0.0001	P	13.4
3	☐	5.000	7.386	67.68	0.0001	P	6.1
4	☐	50.000	49.357	233.03	0.0004	P	8.8
5	☐	125.000	123.996	530.40	0.0008	P	7.3
6	☐	250.000	266.495	1105.82	0.0017	P	2.5
7	☐	500.000	499.284	2082.37	0.0032	P	4.6
8	☐	1000.000	996.379	4065.00	0.0063	P	2.1
9	☐			55.01	0.0001	P	10.1

$$y = 6.2741\text{E-}006 * x + 6.3027\text{E-}005$$

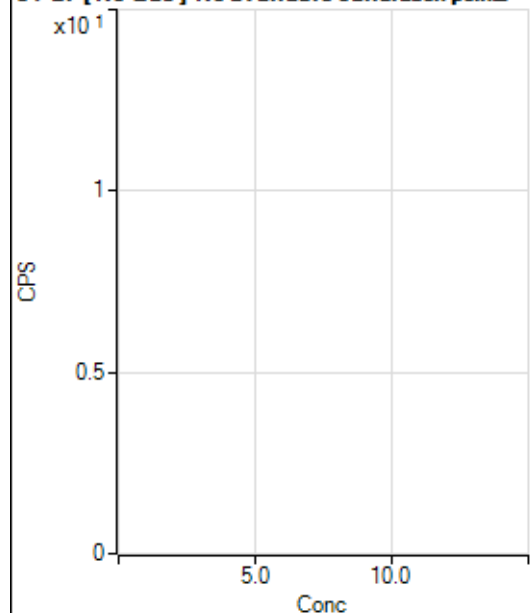
$$R = 0.9999$$

$$DL = 8.057$$

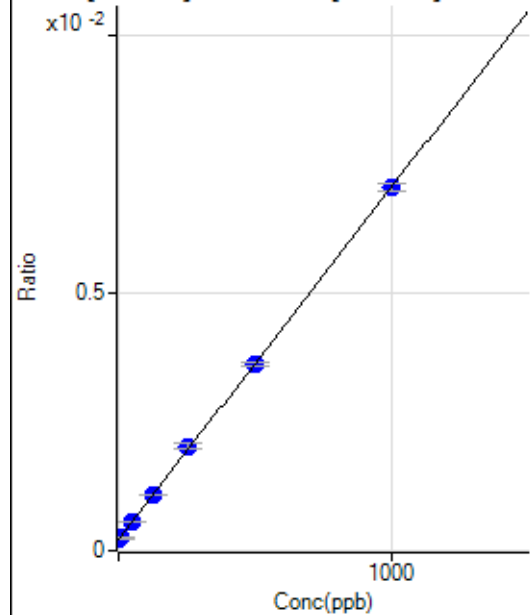
$$BEC = 10.05$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3033.45		P	3.5
2	☐			3120.24		P	5.4
3	☐			2980.05		P	3.9
4	☐			3090.20		P	7.8
5	☐			2893.27		P	3.3
6	☐			3033.45		P	5.6
7	☐			3096.87		P	3.9
8	☐			3023.46		P	11.2
9	☐			3153.60		P	5.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1338.56	0.0002	P	4.4
2	☒	0.500					
3	☐	5.000	3.653	1492.82	0.0002	P	2.1
4	☐	50.000	51.409	3550.01	0.0006	P	2.5
5	☐	125.000	125.326	6796.39	0.0011	P	0.9
6	☐	250.000	265.390	12434.39	0.0020	P	6.9
7	☐	500.000	496.435	22718.49	0.0036	P	2.3
8	☐	1000.000	997.830	45166.27	0.0070	P	2.0
9	☐			1360.15	0.0002	P	3.8

$$y = 6.8427E-006 * x + 2.1790E-004$$

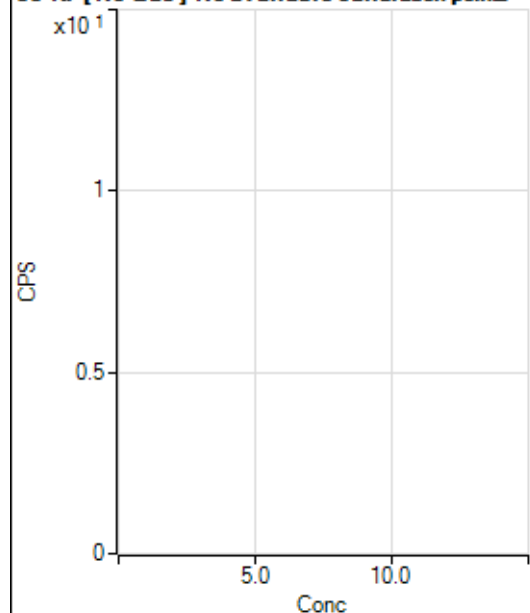
$$R = 0.9999$$

$$DL = 4.162$$

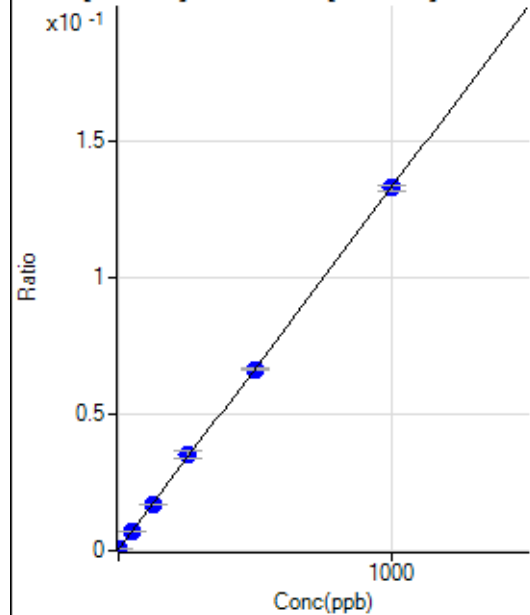
$$BEC = 31.84$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1982.38		P	2.1
2	☐			1994.61		P	3.7
3	☐			2133.52		P	3.8
4	☐			1989.05		P	7.5
5	☐			2013.50		P	3.9
6	☐			1925.71		P	3.2
7	☐			2189.08		P	2.9
8	☐			1986.83		P	0.9
9	☐			2027.95		P	5.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	3058.76	0.0005	P	5.8
2	☐	0.100	0.295	3333.83	0.0005	P	8.2
3	☐	1.000	1.308	4122.95	0.0007	P	8.0
4	☐	50.000	50.732	45031.45	0.0072	P	2.2
5	☐	125.000	124.859	107783.39	0.0171	P	1.5
6	☐	250.000	261.121	214781.84	0.0351	P	6.7
7	☐	500.000	497.690	418018.78	0.0665	P	1.8
8	☐	1000.000	998.355	852049.51	0.1329	P	1.6
9	☐			8374.94	0.0013	P	2.9

$$y = 1.3262\text{E-}004 * x + 4.9792\text{E-}004$$

$$R = 0.9999$$

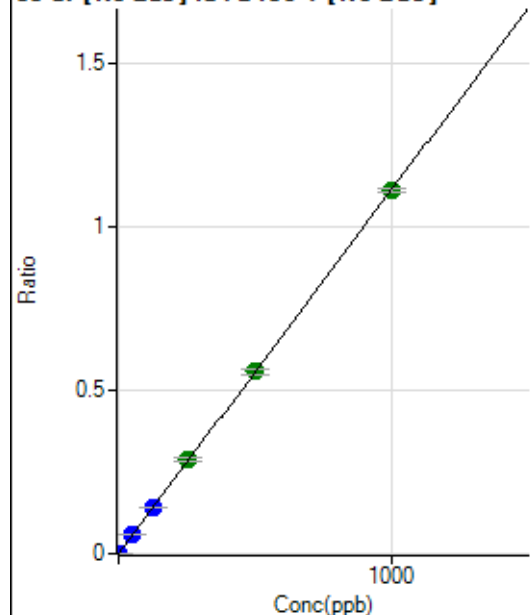
$$DL = 0.6519$$

$$BEC = 3.754$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	127.78	0.0000	P	56.4
2	☐	0.100	0.101	830.61	0.0001	P	1.2
3	☐	1.000	1.043	7265.95	0.0012	P	5.8
4	☐	50.000	52.029	361565.29	0.0580	P	0.5
5	☐	125.000	127.840	900759.12	0.1425	P	1.1
6	☐	250.000	260.352	1775814.56	0.2903	A	4.8
7	☐	500.000	499.597	3500813.97	0.5570	A	2.2
8	☐	1000.000	997.157	7127468.39	1.1117	A	1.0
9	☐			45655.82	0.0072	P	3.5

$$y = 0.0011 * x + 2.0780E-005$$

$$R = 0.9999$$

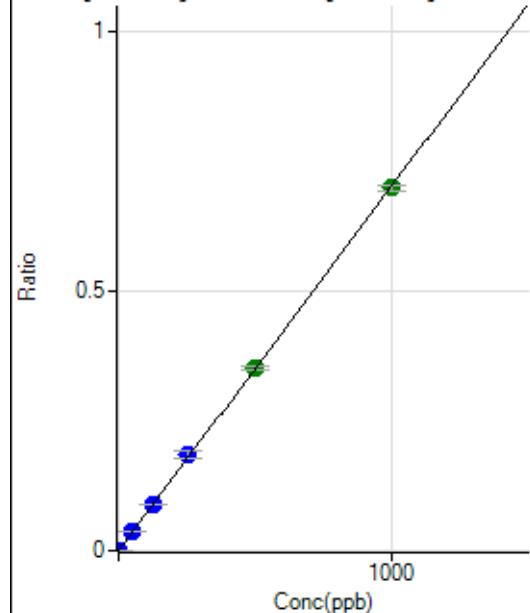
$$DL = 0.03151$$

$$BEC = 0.01864$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	272.23	0.0000	P	10.9
2	☐	0.100	0.096	694.48	0.0001	P	9.2
3	☐	1.000	1.032	4731.50	0.0008	P	5.4
4	☐	50.000	50.706	222320.72	0.0357	P	1.4
5	☐	125.000	127.116	564818.74	0.0894	P	1.3
6	☐	250.000	263.915	1134172.68	0.1855	P	6.8
7	☐	500.000	500.973	2212968.21	0.3521	A	2.6
8	☐	1000.000	995.735	4486658.56	0.6999	A	1.3
9	☐			2708.69	0.0004	P	20.4

$$y = 7.0280E-004 * x + 4.4310E-005$$

$$R = 0.9999$$

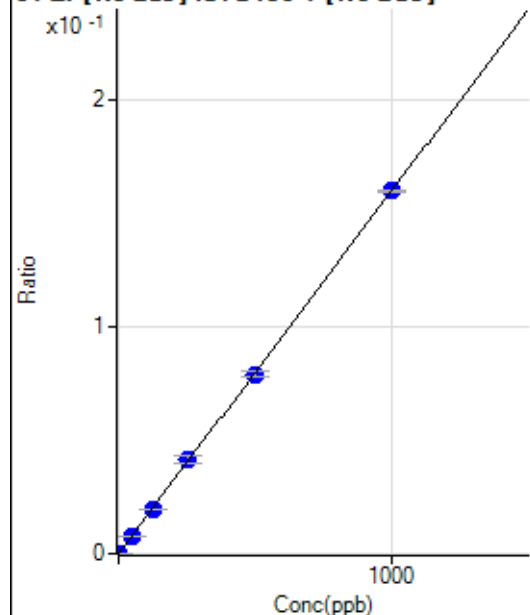
$$DL = 0.02052$$

$$BEC = 0.06305$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	77.78	0.0000	P	43.6
2	☐	0.100	0.053	130.56	0.0000	P	24.1
3	☐	1.000	0.975	1033.40	0.0002	P	12.4
4	☐	50.000	49.421	49187.56	0.0079	P	2.6
5	☐	125.000	123.397	124436.28	0.0197	P	1.3
6	☐	250.000	258.816	252387.94	0.0413	P	7.1
7	☐	500.000	495.133	496317.80	0.0790	P	2.6
8	☐	1000.000	1000.459	1023077.58	0.1596	P	0.8
9	☐			511.13	0.0001	P	14.5

$$y = 1.5948E-004 * x + 1.2626E-005$$

$$R = 0.9999$$

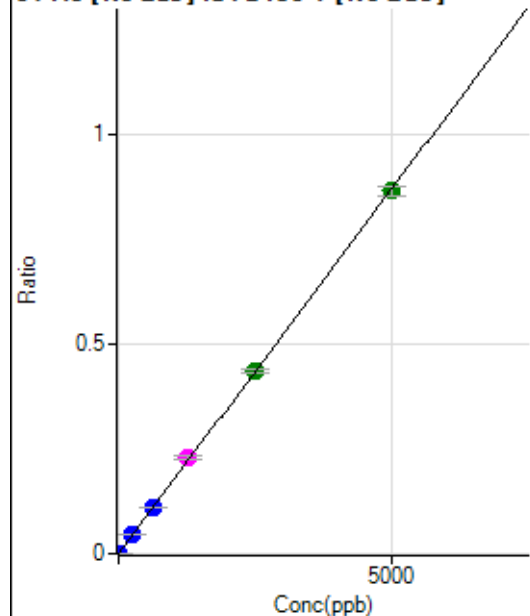
$$DL = 0.1035$$

$$BEC = 0.07917$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	105.56	0.0000	P	11.4
2	☐	0.500	0.471	613.92	0.0001	P	13.7
3	☐	5.000	4.931	5367.83	0.0009	P	3.2
4	☐	250.000	259.190	280667.30	0.0450	P	1.5
5	☐	625.000	636.765	699122.72	0.1106	P	1.4
6	☐	1250.000	1317.687	1400363.37	0.2289	M	5.3
7	☐	2500.000	2506.683	2737382.40	0.4355	A	1.6
8	☐	5000.000	4977.807	5543916.87	0.8648	A	2.5
9	☐			3472.76	0.0006	P	18.1

$$y = 1.7373E-004 * x + 1.7172E-005$$

$$R = 0.9999$$

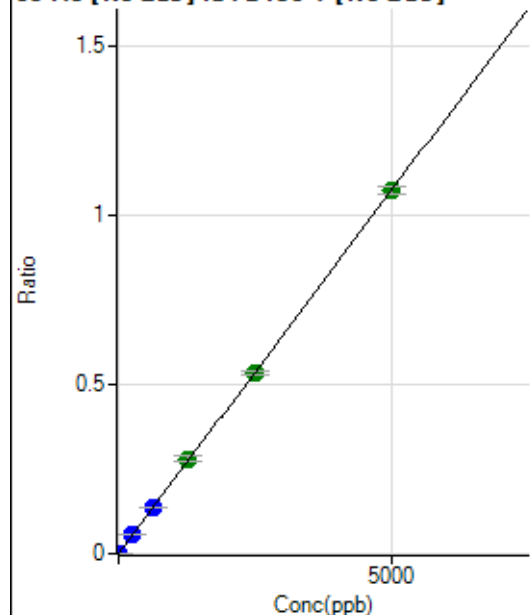
$$DL = 0.03382$$

$$BEC = 0.09885$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	33.33	0.0000	P	25.2
2	☐	0.500	0.459	647.25	0.0001	P	4.7
3	☐	5.000	4.856	6451.68	0.0011	P	2.9
4	☐	250.000	260.312	348943.92	0.0560	P	0.4
5	☐	625.000	640.969	871278.69	0.1379	P	1.5
6	☐	1250.000	1303.409	1714686.52	0.2804	A	5.8
7	☐	2500.000	2484.987	3359531.59	0.5346	A	2.5
8	☐	5000.000	4991.643	6883751.72	1.0738	A	2.2
9	☐			4428.63	0.0007	P	20.0

$$y = 2.1511E-004 * x + 5.4262E-006$$

$$R = 0.9999$$

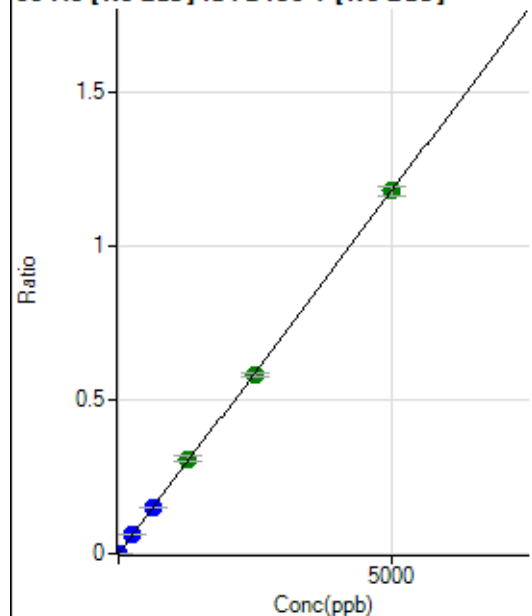
$$DL = 0.0191$$

$$BEC = 0.02523$$

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	66.67	0.0000	P	11.6
2	☐	0.500	0.542	861.16	0.0001	P	5.8
3	☐	5.000	5.043	7377.15	0.0012	P	5.0
4	☐	250.000	255.465	375768.58	0.0603	P	1.2
5	☐	625.000	636.619	949561.49	0.1503	P	1.5
6	☐	1250.000	1306.998	1886407.83	0.3085	A	6.1
7	☐	2500.000	2465.370	3657293.18	0.5819	A	2.8
8	☐	5000.000	5001.340	7566974.56	1.1805	A	2.6
9	☐			5023.31	0.0008	P	16.6

$$y = 2.3603E-004 * x + 1.0844E-005$$

$$R = 0.9999$$

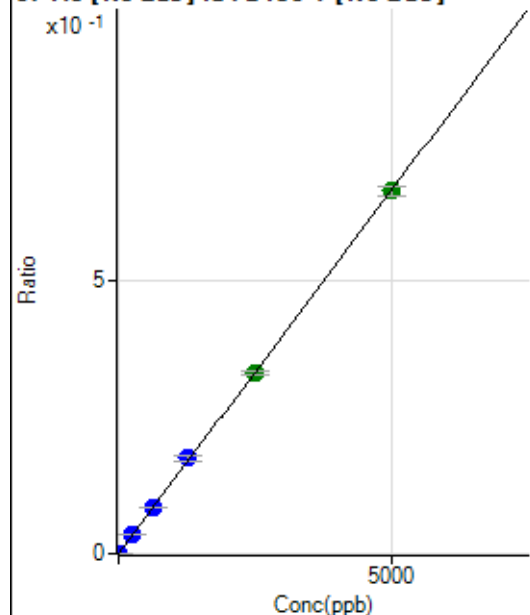
$$DL = 0.01602$$

$$BEC = 0.04594$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.4
2	☐	0.500	0.380	322.23	0.0001	P	12.8
3	☐	5.000	5.158	4222.97	0.0007	P	6.8
4	☐	250.000	254.354	210842.05	0.0338	P	1.0
5	☐	625.000	631.895	531060.73	0.0841	P	2.6
6	☐	1250.000	1312.462	1067446.23	0.1746	P	6.5
7	☐	2500.000	2482.253	2075700.94	0.3302	A	1.8
8	☐	5000.000	4992.178	4257267.32	0.6641	A	2.9
9	☐			2750.38	0.0004	P	18.9

$$y = 1.3303\text{E-}004 * x + 1.3493\text{E-}006$$

$$R = 0.9999$$

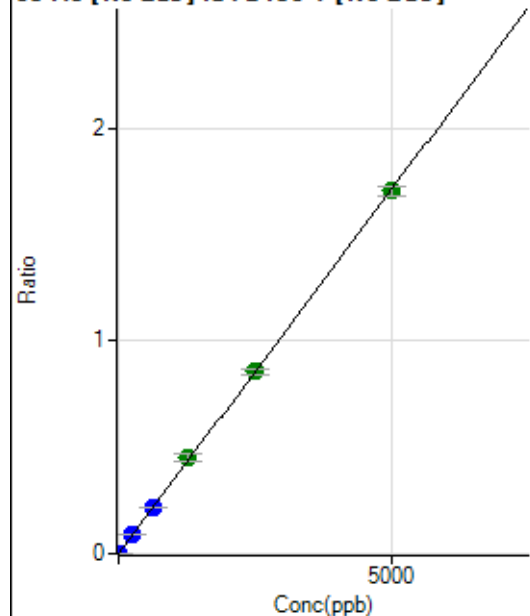
$$DL = 0.03026$$

$$BEC = 0.01014$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	16.3
2	☐	0.500	0.493	1075.07	0.0002	P	8.1
3	☐	5.000	4.875	10284.60	0.0017	P	4.3
4	☐	250.000	256.616	547717.64	0.0879	P	0.8
5	☐	625.000	633.260	1370690.56	0.2169	P	1.2
6	☐	1250.000	1319.205	2762456.53	0.4519	A	6.8
7	☐	2500.000	2499.408	5378982.76	0.8561	A	3.6
8	☐	5000.000	4981.632	10937909.79	1.7064	A	2.8
9	☐			6921.41	0.0011	P	22.9

$$y = 3.4253\text{E-}004 * x + 4.5161\text{E-}006$$

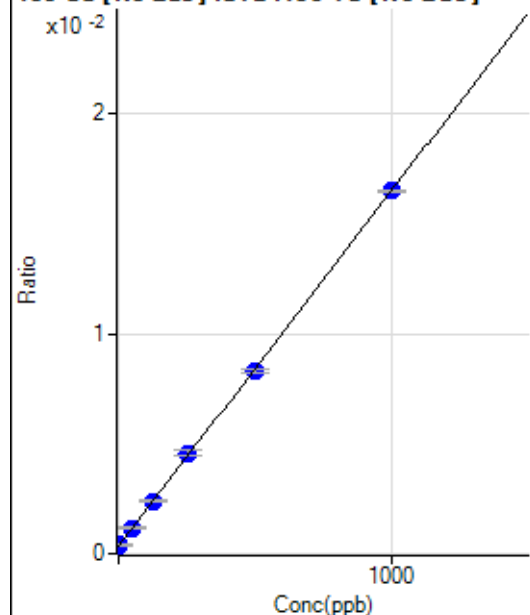
$$R = 0.9999$$

$$DL = 0.006442$$

$$BEC = 0.01318$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1358.44	0.0003	P	8.5
2	☐	0.100	1.930	1505.68	0.0004	P	4.9
3	☐	1.000	3.240	1594.59	0.0004	P	3.8
4	☐	50.000	50.885	4703.70	0.0012	P	5.0
5	☐	125.000	126.575	9745.38	0.0024	P	2.4
6	☐	250.000	261.491	18006.65	0.0046	P	6.5
7	☐	500.000	495.129	33672.48	0.0084	P	2.1
8	☐	1000.000	999.319	68542.98	0.0165	P	0.2
9	☐			1405.66	0.0003	P	2.1

$$y = 1.6170\text{E-}005 * x + 3.4645\text{E-}004$$

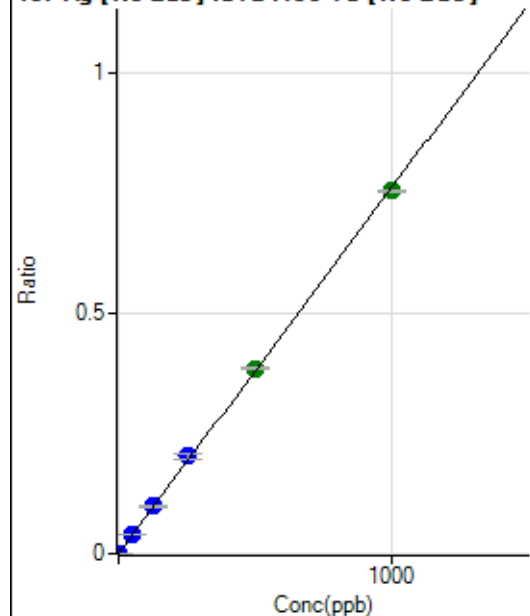
$$R = 0.9999$$

$$DL = 5.435$$

$$BEC = 21.42$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	50.00	0.0000	P	43.5
2	☐	0.100	0.095	338.90	0.0001	P	19.5
3	☐	1.000	0.993	3072.65	0.0008	P	2.9
4	☐	50.000	51.853	158957.15	0.0395	P	2.3
5	☐	125.000	129.365	401329.50	0.0985	P	1.5
6	☐	250.000	266.645	799561.93	0.2031	P	6.1
7	☐	500.000	506.797	1556034.59	0.3860	A	1.8
8	☐	1000.000	991.802	3136944.32	0.7554	A	0.9
9	☐			1836.28	0.0004	P	10.5

$$y = 7.6161\text{E-}004 * x + 1.2723\text{E-}005$$

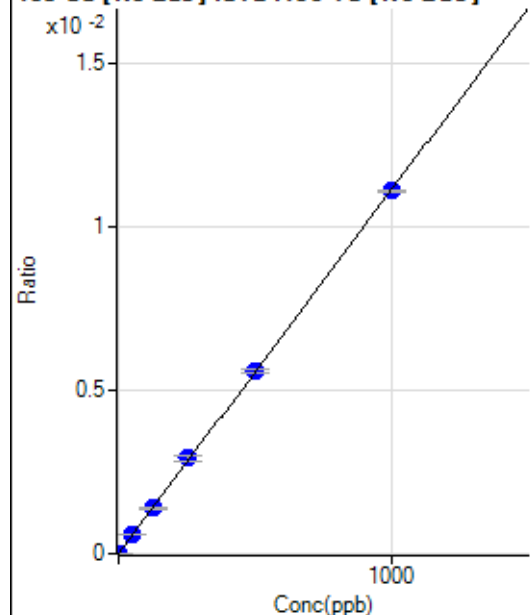
$$R = 0.9998$$

$$DL = 0.02178$$

$$BEC = 0.01671$$

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	12.50	0.0000	P	34.2
2	☐	0.100	0.307	26.39	0.0000	P	32.1
3	☐	1.000	0.961	55.56	0.0000	P	22.2
4	☐	50.000	51.124	2300.22	0.0006	P	1.9
5	☐	125.000	124.903	5667.89	0.0014	P	3.2
6	☐	250.000	261.401	11447.95	0.0029	P	7.6
7	☐	500.000	500.073	22426.69	0.0056	P	2.1
8	☐	1000.000	997.069	46053.13	0.0111	P	0.7
9	☐			41.67	0.0000	P	20.5

$$y = 1.1119\text{E-}005 * x + 3.1928\text{E-}006$$

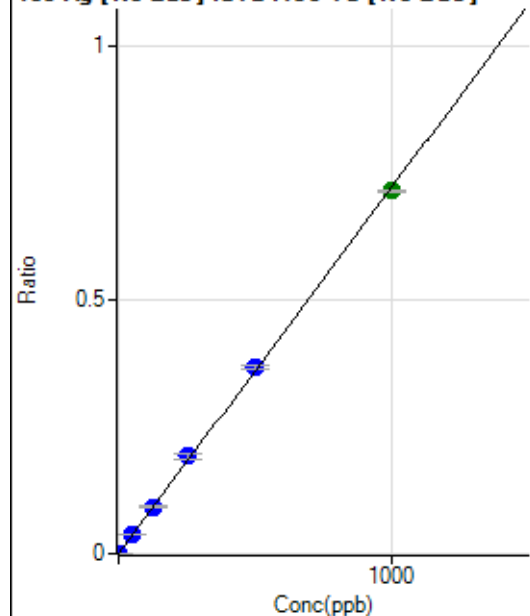
$$R = 0.9999$$

$$DL = 0.2946$$

$$BEC = 0.2871$$

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	47.22	0.0000	P	79.2
2	☐	0.100	0.067	241.68	0.0001	P	2.7
3	☐	1.000	0.998	2930.96	0.0007	P	0.6
4	☐	50.000	51.120	148579.36	0.0369	P	2.8
5	☐	125.000	128.086	376759.00	0.0925	P	1.6
6	☐	250.000	265.812	755566.25	0.1920	P	6.7
7	☐	500.000	508.958	1481986.34	0.3676	P	1.5
8	☐	1000.000	991.126	2972350.18	0.7158	A	0.7
9	☐			1622.37	0.0004	P	27.2

$$y = 7.2218\text{E-}004 * x + 1.2040\text{E-}005$$

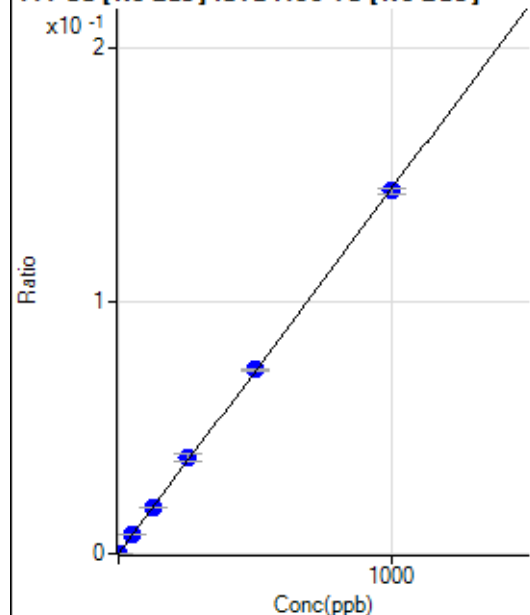
$$R = 0.9998$$

$$DL = 0.03959$$

$$BEC = 0.01667$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	272.66	0.0001	P	8.4
2	☐	0.100	0.128	350.72	0.0001	P	12.9
3	☐	1.000	1.040	878.66	0.0002	P	3.0
4	☐	50.000	50.395	29565.14	0.0073	P	2.4
5	☐	125.000	126.436	74646.37	0.0183	P	1.7
6	☐	250.000	262.832	149683.74	0.0380	P	6.5
7	☐	500.000	504.216	293852.53	0.0729	P	1.5
8	☐	1000.000	994.485	596715.85	0.1437	P	1.4
9	☐			622.81	0.0002	P	3.9

$$y = 1.4442\text{E-}004 * x + 6.9544\text{E-}005$$

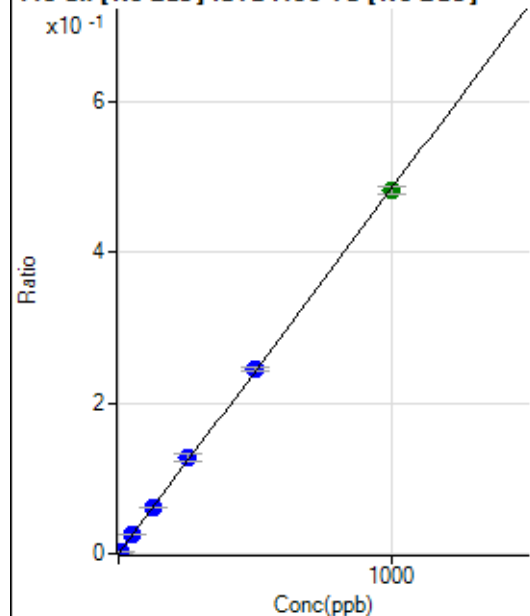
$$R = 0.9999$$

$$DL = 0.1214$$

$$BEC = 0.4815$$

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	316.68	0.0001	P	15.6
2	☐	0.500	0.525	1336.21	0.0003	P	7.9
3	☐	5.000	4.953	9920.55	0.0025	P	3.2
4	☐	50.000	50.627	99077.29	0.0246	P	1.4
5	☐	125.000	127.043	251131.30	0.0617	P	0.8
6	☐	250.000	263.265	502515.85	0.1277	P	7.0
7	☐	500.000	504.877	986886.66	0.2448	P	1.8
8	☐	1000.000	993.959	2001117.10	0.4819	A	2.2
9	☐			1502.90	0.0004	P	1.1

$$y = 4.8474\text{E-}004 * x + 8.0665\text{E-}005$$

$$R = 0.9999$$

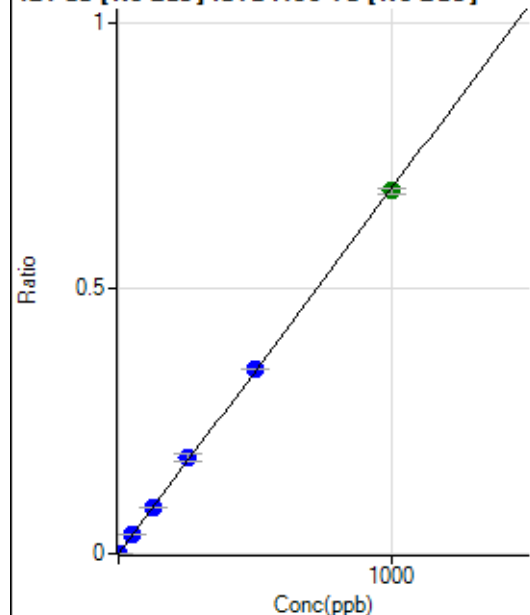
$$DL = 0.07801$$

$$BEC = 0.1664$$

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	30.56	0.0000	P	56.4
2	☐	0.200	0.187	544.48	0.0001	P	4.2
3	☐	2.000	1.920	5303.96	0.0013	P	4.2
4	☐	50.000	50.697	140158.73	0.0348	P	1.9
5	☐	125.000	126.227	353121.56	0.0867	P	1.0
6	☐	250.000	264.376	714604.80	0.1816	P	7.2
7	☐	500.000	505.099	1398899.60	0.3469	P	0.8
8	☐	1000.000	993.668	2834240.71	0.6825	A	1.3
9	☐			2516.97	0.0006	P	1.0

$$y = 6.8687\text{E-}004 * x + 7.7852\text{E-}006$$

$$R = 0.9999$$

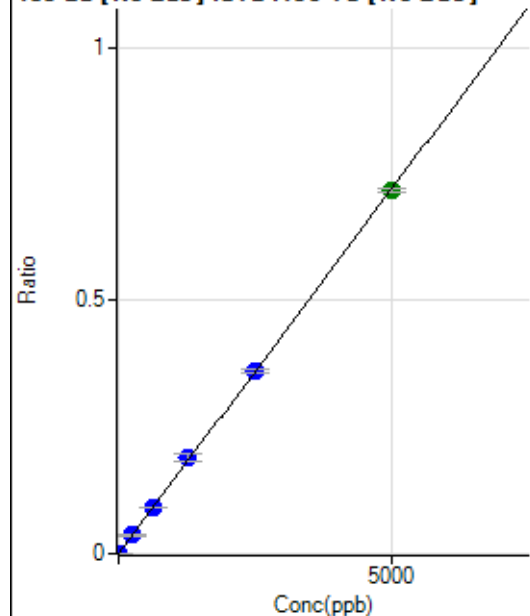
$$DL = 0.01916$$

$$BEC = 0.01133$$

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	19.45	0.0000	P	25.8
2	☐	1.000	1.084	641.70	0.0002	P	8.0
3	☐	10.000	9.541	5515.15	0.0014	P	4.2
4	☐	250.000	251.038	145561.34	0.0362	P	2.4
5	☐	625.000	626.103	367443.91	0.0902	P	1.7
6	☐	1250.000	1315.978	746351.38	0.1896	P	6.6
7	☐	2500.000	2513.465	1459971.34	0.3622	P	2.0
8	☐	5000.000	4976.584	2977793.36	0.7171	A	0.9
9	☐			1486.24	0.0004	P	18.4

$$y = 1.4409\text{E-}004 * x + 4.9662\text{E-}006$$

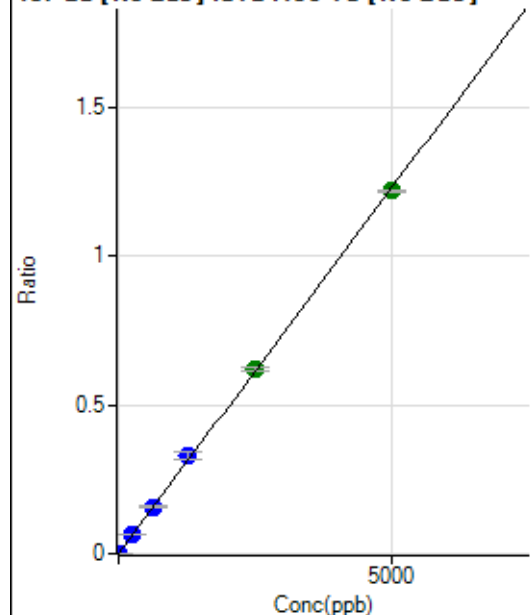
$$R = 0.9999$$

$$DL = 0.02665$$

$$BEC = 0.03446$$

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	61.11	0.0000	P	21.8
2	☐	1.000	0.905	950.07	0.0002	P	7.2
3	☐	10.000	9.966	9856.65	0.0025	P	1.1
4	☐	250.000	255.326	252627.11	0.0628	P	1.4
5	☐	625.000	640.969	641735.31	0.1576	P	1.4
6	☐	1250.000	1342.221	1298786.85	0.3300	P	6.4
7	☐	2500.000	2523.523	2500837.66	0.6203	A	1.7
8	☐	5000.000	4962.921	5066136.66	1.2200	A	0.5
9	☐			2472.53	0.0006	P	15.9

$$y = 2.4582E-004 * x + 1.5602E-005$$

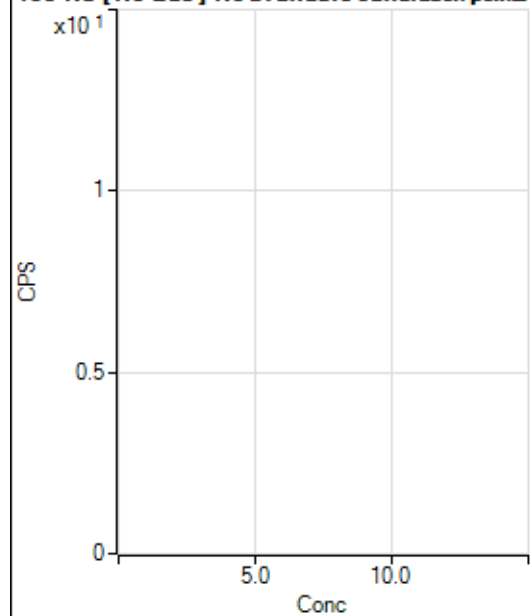
$$R = 0.9998$$

$$DL = 0.04153$$

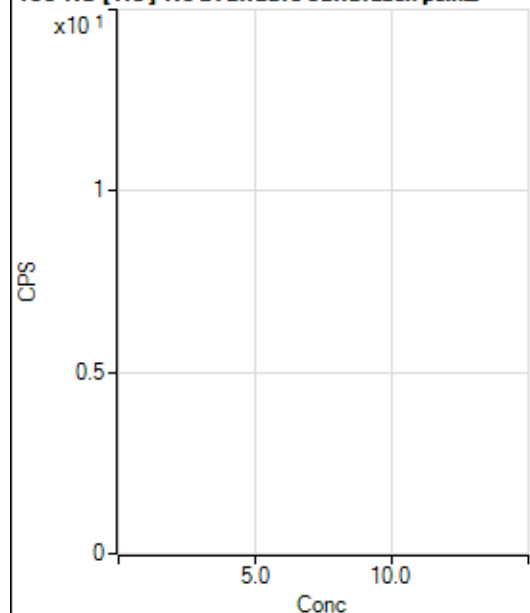
$$BEC = 0.06347$$

Weight: <None>

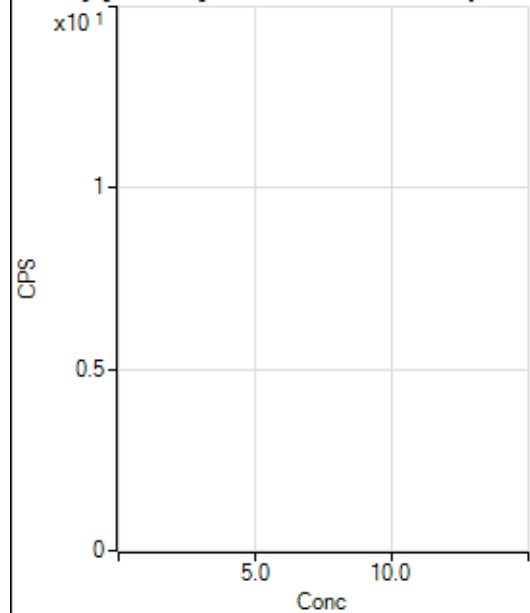
Min Conc: 0

150 Nd [No Gas] No available calibration points

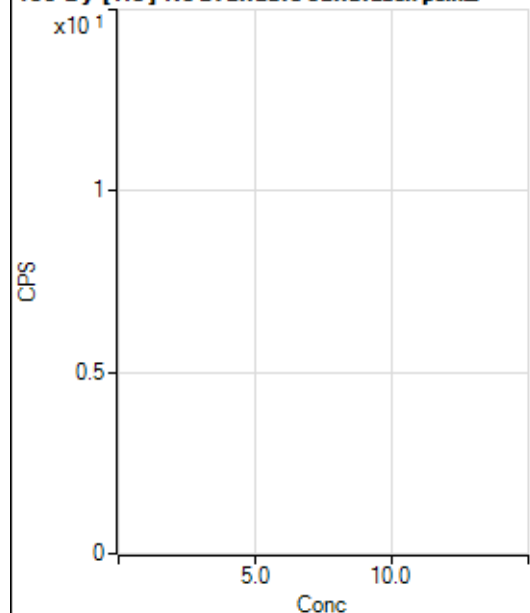
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	91.7
2	☐			4.45		P	86.6
3	☐			4.45		P	86.6
4	☐			20.00		P	57.7
5	☐			22.22		P	34.7
6	☐			48.89		P	41.7
7	☐			73.34		P	9.1
8	☐			140.00		P	23.8
9	☐			15.56		P	89.2

150 Nd [He] No available calibration points

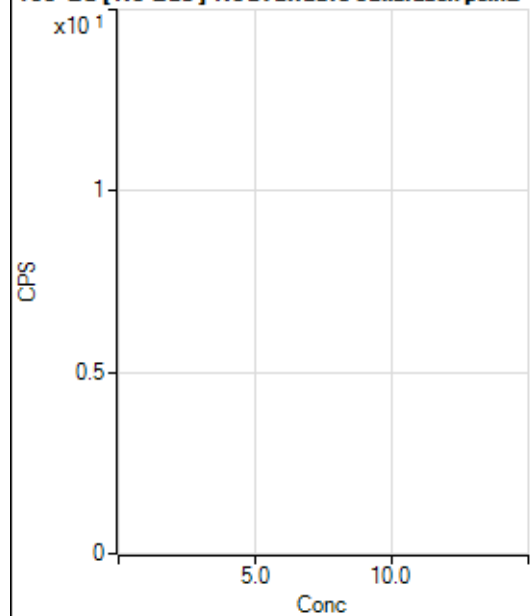
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			1.11		P	173.
5	☐			4.44		P	43.4
6	☐			5.56		P	91.6
7	☐			5.55		P	69.3
8	☐			13.33		P	50.0
9	☐			6.67		P	50.0

156 Dy [No Gas] No available calibration points

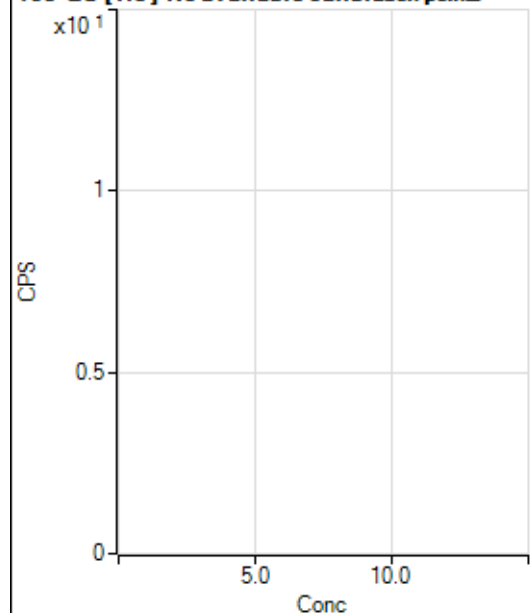
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	114.
2	☐			19.45		P	24.7
3	☐			8.33		P	100.
4	☐			27.78		P	69.3
5	☐			41.67		P	20.0
6	☐			33.33		P	66.2
7	☐			108.34		P	50.4
8	☐			169.45		P	12.4
9	☐			605.59		P	11.7

156 Dy [He] No available calibration points

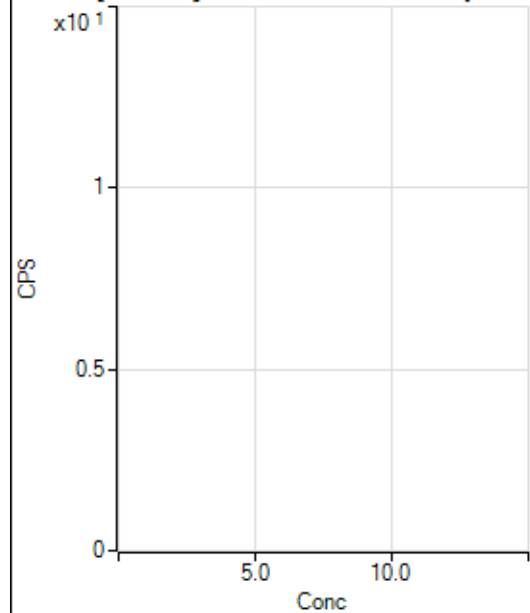
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			3.33		P	173.
3	☐			1.11		P	173.
4	☐			4.44		P	43.4
5	☐			15.55		P	68.9
6	☐			26.67		P	33.1
7	☐			30.00		P	29.4
8	☐			58.89		P	57.3
9	☐			293.34		P	6.8

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

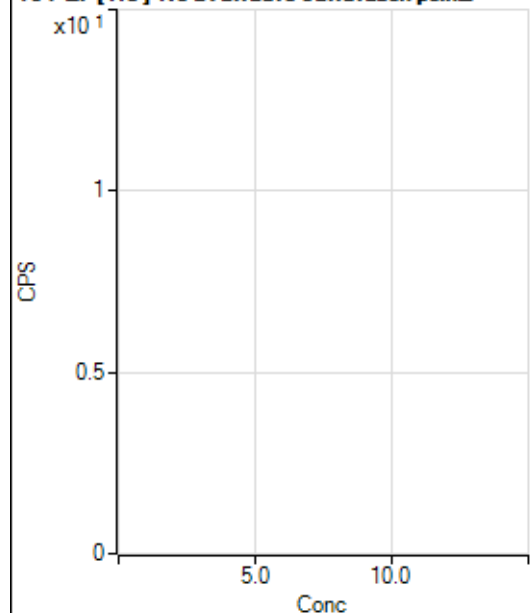
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			44.45		P	84.6
2	☐			38.89		P	12.4
3	☐			36.11		P	13.3
4	☐			16.67		P	132.
5	☐			55.56		P	22.9
6	☐			100.00		P	28.9
7	☐			102.78		P	28.5
8	☐			152.78		P	19.2
9	☐			688.93		P	7.1

160 Gd [He] No available calibration points

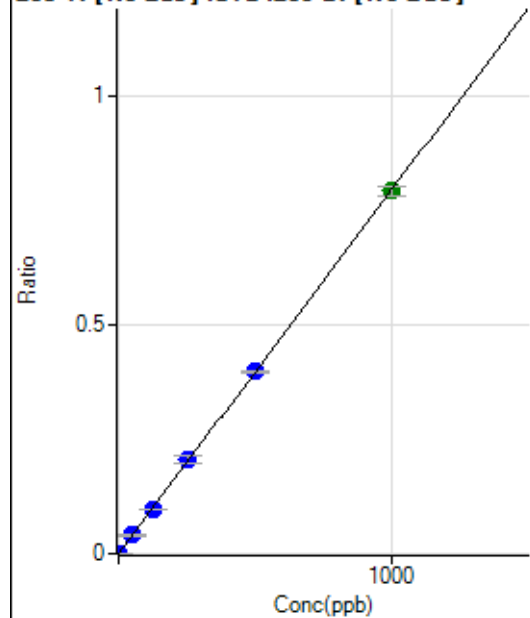
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			11.11		P	75.5
2	☐			10.00		P	33.3
3	☐			5.56		P	91.6
4	☐			16.67		P	60.0
5	☐			17.78		P	65.8
6	☐			21.11		P	45.6
7	☐			40.00		P	8.3
8	☐			83.33		P	14.4
9	☐			356.67		P	3.2

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			19.44		P	49.5
2	☐			19.45		P	24.7
3	☐			16.67		P	50.0
4	☐			22.22		P	57.3
5	☐			30.55		P	15.7
6	☐			22.22		P	78.1
7	☐			30.55		P	15.7
8	☐			33.33		P	66.1
9	☐			94.45		P	39.8

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			8.89		P	94.4
3	☐			10.00		P	66.7
4	☐			3.33		P	173.
5	☐			14.44		P	35.3
6	☐			6.66		P	86.6
7	☐			12.22		P	31.5
8	☐			15.56		P	53.9
9	☐			57.78		P	32.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	86.11	0.0000	P	12.2
2	☐	0.100	0.083	230.56	0.0001	P	7.6
3	☐	1.000	0.927	1683.49	0.0008	P	9.2
4	☐	50.000	50.247	85877.97	0.0400	P	3.1
5	☐	125.000	123.590	215135.10	0.0984	P	0.4
6	☐	250.000	258.246	438375.35	0.2055	P	7.1
7	☐	500.000	500.498	861690.46	0.3982	P	1.4
8	☐	1000.000	997.854	1760167.62	0.7938	A	2.4
9	☐			1402.90	0.0007	P	25.7

$$y = 7.9551\text{E-}004 * x + 4.0563\text{E-}005$$

$$R = 1.0000$$

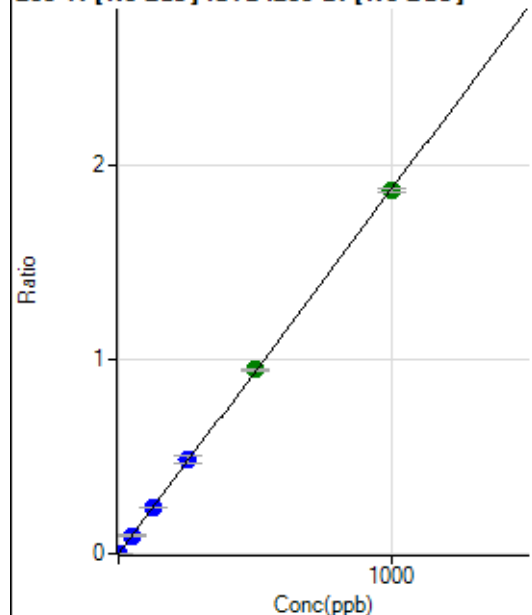
$$DL = 0.01867$$

$$BEC = 0.05099$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	208.34	0.0001	P	16.0
2	☐	0.100	0.102	622.25	0.0003	P	10.1
3	☐	1.000	0.928	3972.96	0.0018	P	2.5
4	☐	50.000	49.838	200568.87	0.0934	P	2.3
5	☐	125.000	124.761	511324.82	0.2337	P	1.2
6	☐	250.000	258.726	1033358.88	0.4846	P	8.2
7	☐	500.000	504.390	2044605.84	0.9447	A	0.7
8	☐	1000.000	995.662	4135144.15	1.8648	A	1.1
9	☐			3331.08	0.0016	P	13.0

$$y = 0.0019 * x + 9.8195E-005$$

$$R = 0.9999$$

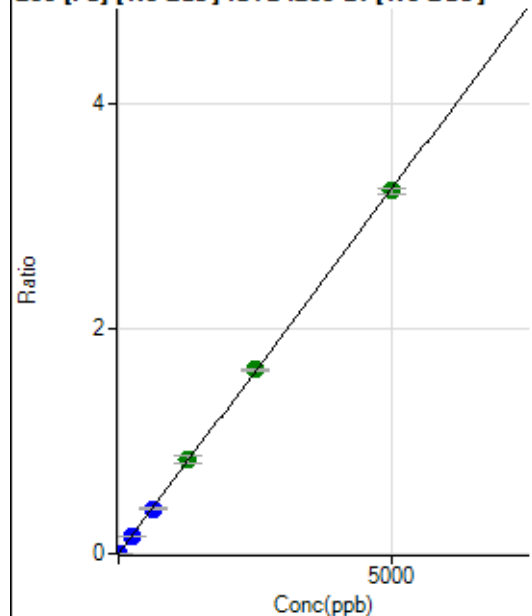
$$DL = 0.02509$$

$$BEC = 0.05243$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	322.23	0.0002	P	14.1
2	☐	0.100	0.089	451.87	0.0002	P	11.3
3	☐	1.000	1.017	1755.70	0.0008	P	4.9
4	☐	250.000	244.866	341464.86	0.1591	P	2.3
5	☐	625.000	618.339	878121.05	0.4015	P	0.6
6	☐	1250.000	1292.736	1789166.81	0.8392	A	8.3
7	☐	2500.000	2529.521	3552944.29	1.6418	A	1.0
8	☐	5000.000	4975.645	7160704.96	3.2294	A	1.7
9	☐			15253.67	0.0072	P	7.3

$$y = 6.4901E-004 * x + 1.5187E-004$$

$$R = 0.9999$$

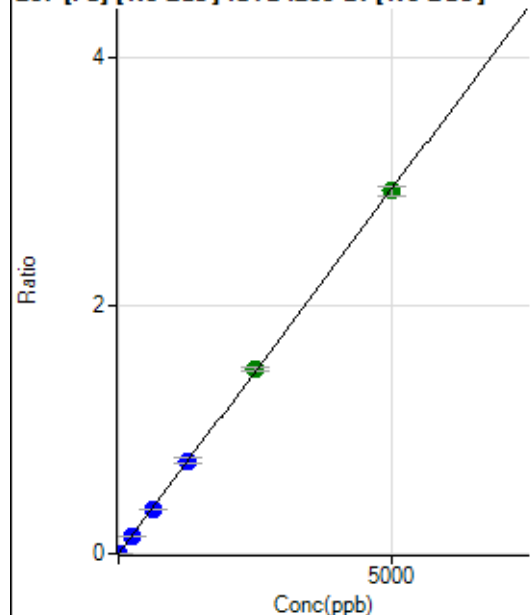
$$DL = 0.09881$$

$$BEC = 0.234$$

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	292.60	0.0001	P	10.0
2	☐	0.100	0.112	438.91	0.0002	P	10.2
3	☐	1.000	0.975	1537.16	0.0007	P	4.9
4	☐	250.000	244.471	308923.14	0.1439	P	1.5
5	☐	625.000	613.268	789030.62	0.3608	P	0.6
6	☐	1250.000	1272.582	1596734.45	0.7485	P	7.1
7	☐	2500.000	2534.084	3225043.82	1.4903	A	1.6
8	☐	5000.000	4979.055	6491548.70	2.9280	A	2.7
9	☐			13642.57	0.0065	P	8.7

$$y = 5.8803\text{E-}004 * x + 1.3763\text{E-}004$$

$$R = 0.9999$$

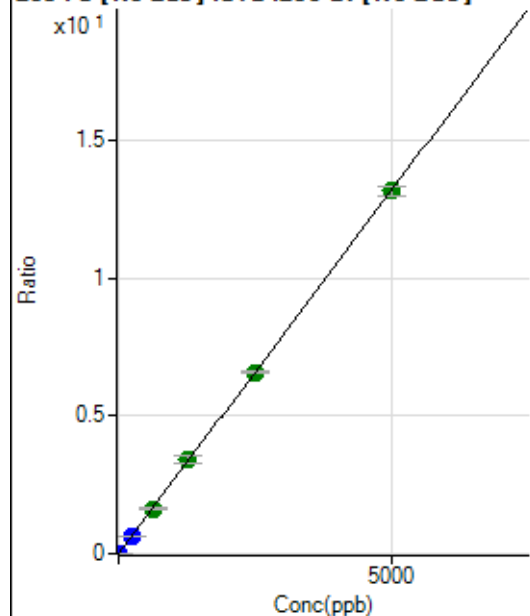
$$DL = 0.07025$$

$$BEC = 0.2341$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	1353.76	0.0006	P	4.9
2	☐	0.100	0.091	1888.98	0.0009	P	7.4
3	☐	1.000	0.961	6860.08	0.0032	P	3.4
4	☐	250.000	246.061	1394470.38	0.6496	P	2.1
5	☐	625.000	621.439	3586158.94	1.6396	A	0.4
6	☐	1250.000	1292.392	7270361.76	3.4092	A	7.9
7	☐	2500.000	2494.636	14239422.72	6.5800	A	1.0
8	☐	5000.000	4992.726	29197934.22	13.1684	A	2.3
9	☐			61244.24	0.0290	P	6.9

$$y = 0.0026 * x + 6.3740\text{E-}004$$

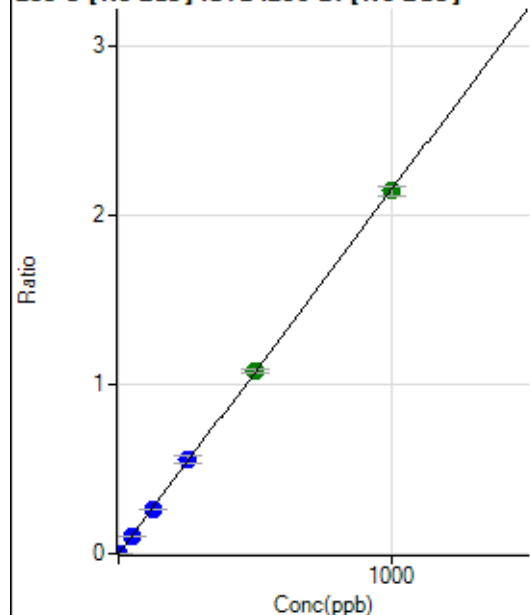
$$R = 1.0000$$

$$DL = 0.03558$$

$$BEC = 0.2417$$

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	16.67	0.0000	P	86.6
2	☐	0.100	0.093	447.24	0.0002	P	16.4
3	☐	1.000	0.965	4506.50	0.0021	P	2.3
4	☐	50.000	49.522	228642.47	0.1065	P	2.0
5	☐	125.000	123.260	579740.49	0.2651	P	1.1
6	☐	250.000	258.369	1185434.92	0.5556	P	7.0
7	☐	500.000	501.954	2335721.95	1.0795	A	1.3
8	☐	1000.000	997.172	4754958.27	2.1445	A	2.4
9	☐			1733.51	0.0008	P	28.5

$$y = 0.0022 * x + 7.7742E-006$$

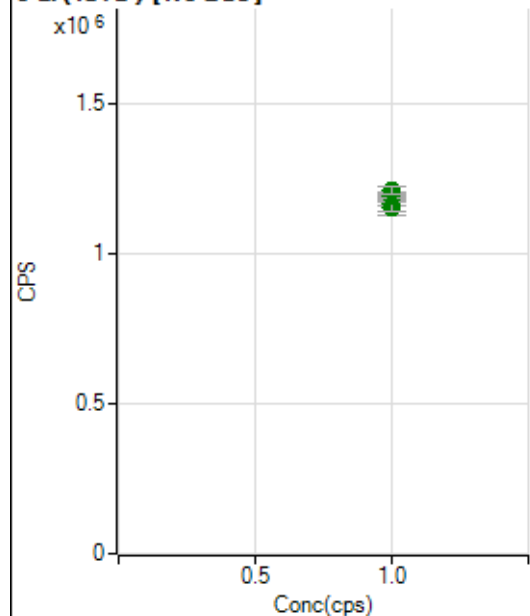
$$R = 1.0000$$

$$DL = 0.009392$$

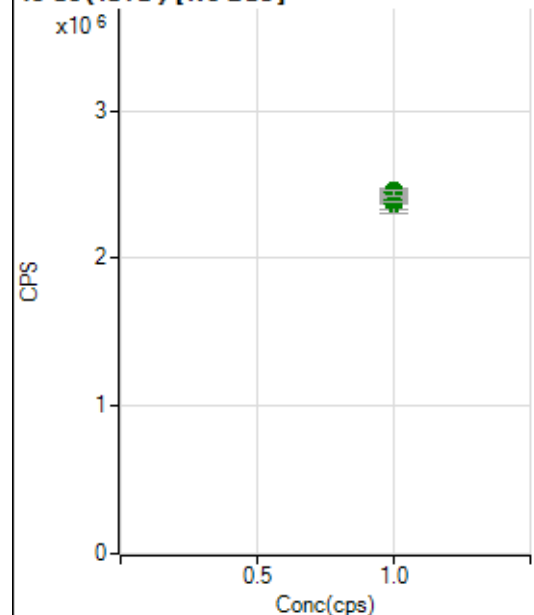
$$BEC = 0.003615$$

Weight: <None>

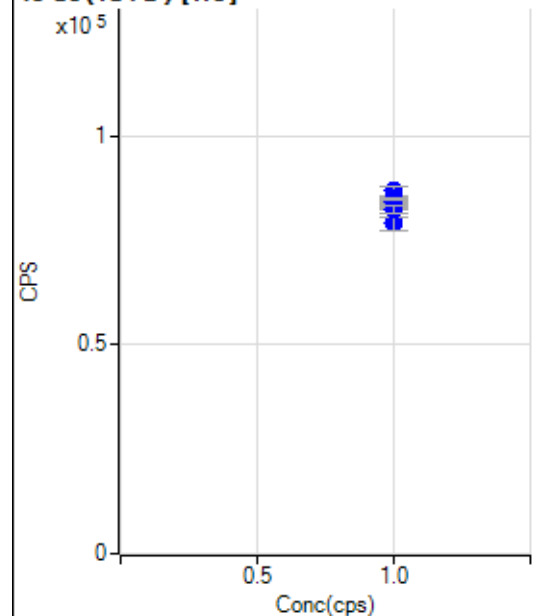
Min Conc: 0

6 Li (ISTD) [No Gas]

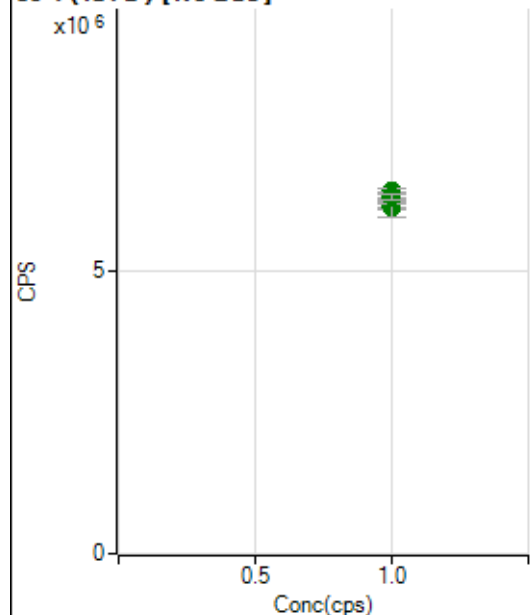
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1170013.53		A	1.4
2	☐	1.000		1197665.52		A	0.7
3	☐	1.000		1190277.02		A	1.5
4	☐	1.000		1171911.11		A	1.4
5	☐	1.000		1197626.77		A	2.1
6	☐	1.000		1154185.16		A	4.5
7	☐	1.000		1158040.01		A	2.5
8	☐	1.000		1195233.29		A	1.1
9	☐	1.000		1211514.71		A	2.1

45 Sc (ISTD) [No Gas]

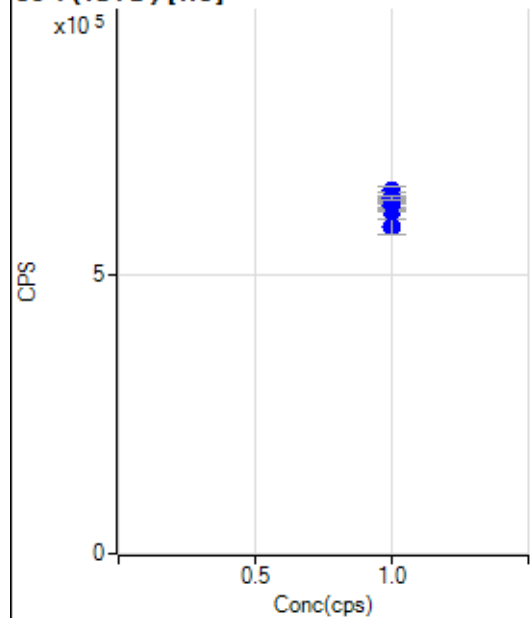
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2390154.39		A	0.8
2	☐	1.000		2386953.26		A	1.2
3	☐	1.000		2424681.55		A	1.9
4	☐	1.000		2371770.90		A	2.9
5	☐	1.000		2457585.10		A	1.8
6	☐	1.000		2387840.93		A	7.1
7	☐	1.000		2398262.98		A	1.3
8	☐	1.000		2454825.52		A	0.8
9	☐	1.000		2443833.14		A	1.9

45 Sc (ISTD) [He]

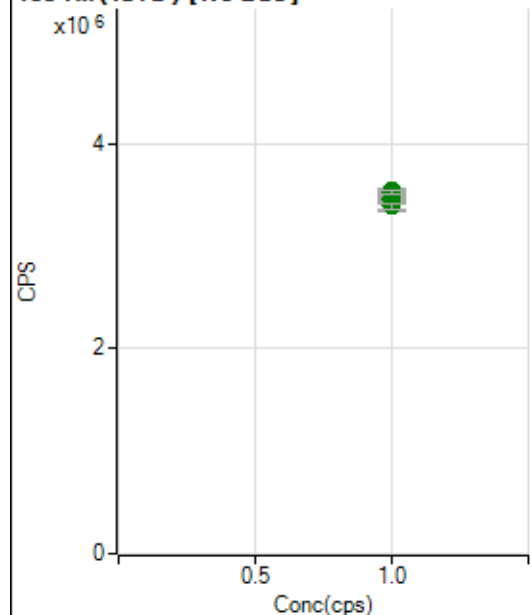
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		79037.75		P	4.5
2	☐	1.000		82645.87		P	1.0
3	☐	1.000		83315.57		P	1.4
4	☐	1.000		83212.62		P	2.2
5	☐	1.000		83926.44		P	0.5
6	☐	1.000		84469.59		P	2.3
7	☐	1.000		86914.36		P	2.7
8	☐	1.000		85054.43		P	0.7
9	☐	1.000		82435.92		P	2.0

89 Y (ISTD) [No Gas]

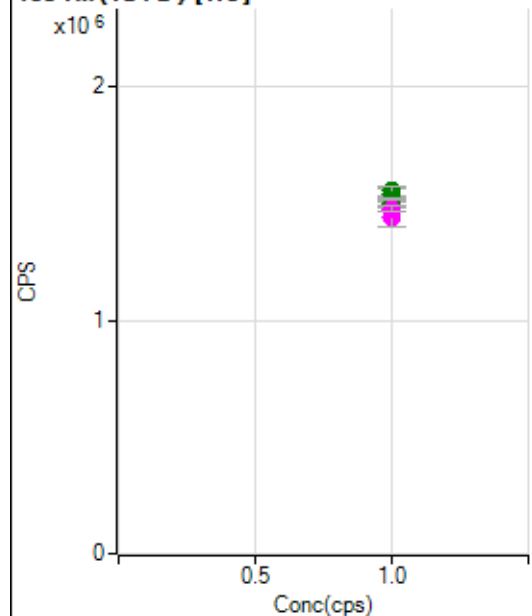
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6144196.02		A	1.0
2	☐	1.000		6206949.08		A	0.6
3	☐	1.000		6146172.27		A	2.2
4	☐	1.000		6231140.81		A	0.6
5	☐	1.000		6320235.11		A	2.3
6	☐	1.000		6128526.71		A	5.5
7	☐	1.000		6288084.14		A	3.6
8	☐	1.000		6411884.90		A	1.9
9	☐	1.000		6314273.73		A	1.5

89 Y (ISTD) [He]

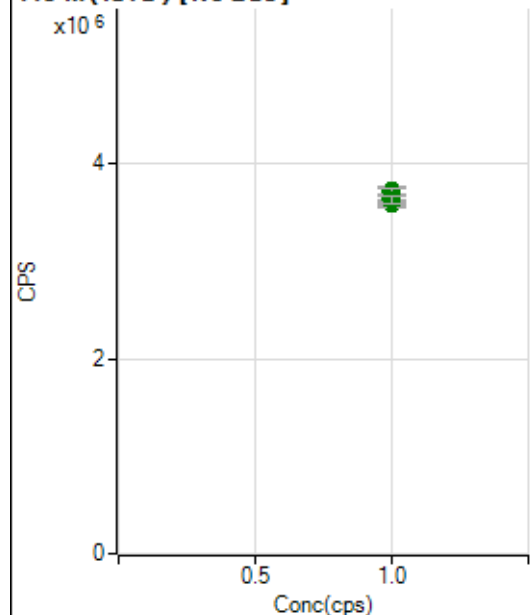
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		586941.49		P	5.0
2	☐	1.000		616297.11		P	0.3
3	☐	1.000		618582.07		P	1.1
4	☐	1.000		625446.80		P	2.6
5	☐	1.000		630718.31		P	0.4
6	☐	1.000		637394.15		P	1.6
7	☐	1.000		652109.78		P	2.3
8	☐	1.000		643793.77		P	1.3
9	☐	1.000		638886.11		P	1.1

103 Rh (ISTD) [No Gas]

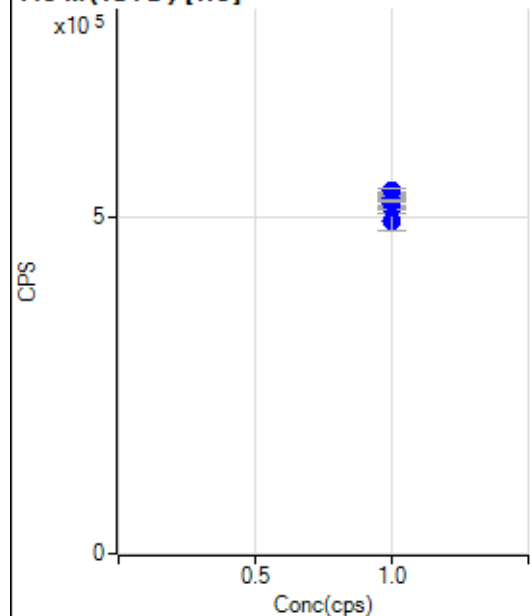
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3502418.87		A	1.9
2	☐	1.000		3473691.57		A	1.2
3	☐	1.000		3495648.65		A	0.4
4	☐	1.000		3504143.61		A	2.3
5	☐	1.000		3542670.65		A	1.4
6	☐	1.000		3453128.88		A	6.3
7	☐	1.000		3460167.87		A	1.9
8	☐	1.000		3534836.45		A	1.1
9	☐	1.000		3389671.13		A	2.1

103 Rh (ISTD) [He]

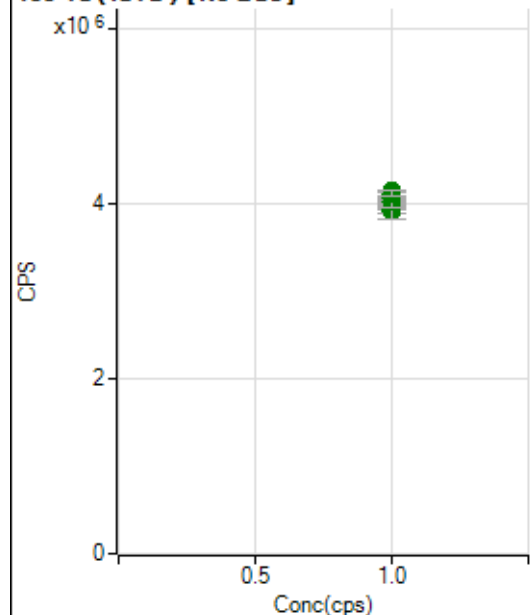
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1440002.03		M	5.8
2	☐	1.000		1487099.30		M	0.4
3	☐	1.000		1501247.18		A	1.6
4	☐	1.000		1494957.58		A	2.1
5	☐	1.000		1514205.20		A	0.7
6	☐	1.000		1539077.55		A	3.0
7	☐	1.000		1553099.46		A	2.5
8	☐	1.000		1517458.07		A	0.8
9	☐	1.000		1476896.31		M	1.4

115 In (ISTD) [No Gas]

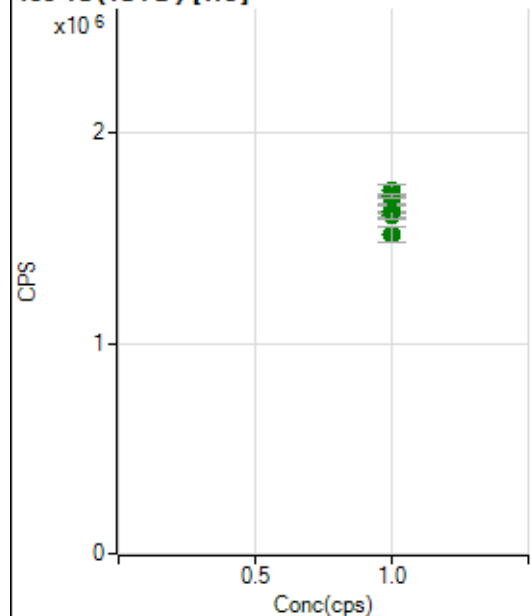
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3583866.60		A	1.5
2	☐	1.000		3595077.63		A	1.0
3	☐	1.000		3656740.55		A	1.6
4	☐	1.000		3605638.53		A	0.7
5	☐	1.000		3722071.18		A	2.4
6	☐	1.000		3657348.89		A	5.7
7	☐	1.000		3656503.53		A	1.9
8	☐	1.000		3706921.38		A	1.8
9	☐	1.000		3631630.78		A	2.3

115 In (ISTD) [He]

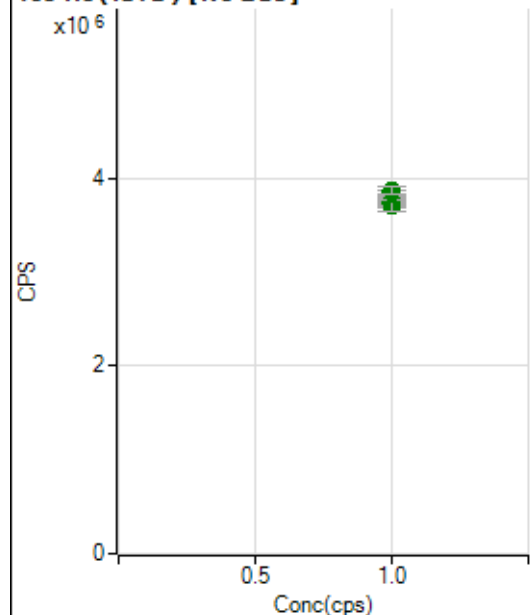
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		494889.84		P	5.0
2	☐	1.000		514976.62		P	0.2
3	☐	1.000		516949.21		P	1.0
4	☐	1.000		520778.82		P	3.0
5	☐	1.000		525078.67		P	0.3
6	☐	1.000		532113.14		P	2.0
7	☐	1.000		540266.85		P	1.6
8	☐	1.000		529899.07		P	0.8
9	☐	1.000		525150.09		P	0.6

159 Tb (ISTD) [No Gas]

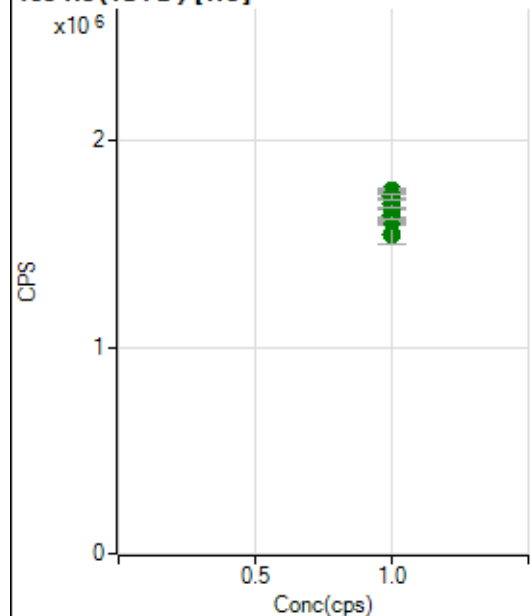
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3922206.40		A	1.0
2	☐	1.000		3986727.68		A	2.1
3	☐	1.000		3997957.62		A	0.8
4	☐	1.000		4024752.16		A	2.0
5	☐	1.000		4072470.32		A	0.8
6	☐	1.000		3945898.73		A	5.8
7	☐	1.000		4032671.43		A	3.1
8	☐	1.000		4152663.45		A	0.8
9	☐	1.000		4124421.99		A	1.2

159 Tb (ISTD) [He]

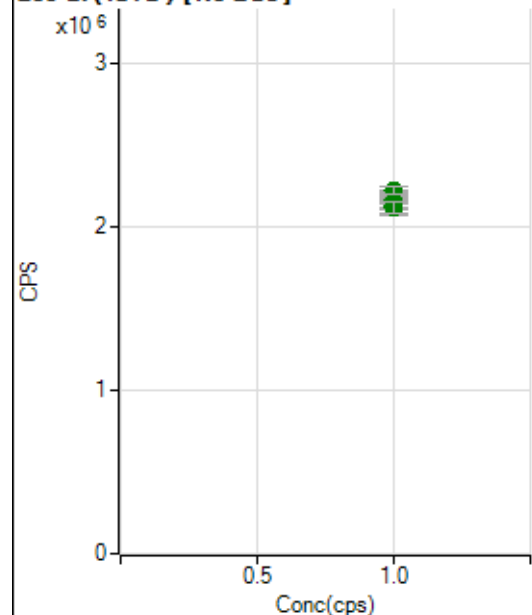
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1521962.15		A	4.6
2	☐	1.000		1612096.99		A	1.5
3	☐	1.000		1613277.75		A	1.5
4	☐	1.000		1624488.53		A	3.9
5	☐	1.000		1663945.84		A	0.7
6	☐	1.000		1690024.02		A	2.9
7	☐	1.000		1726583.52		A	3.0
8	☐	1.000		1703007.46		A	0.9
9	☐	1.000		1704129.00		A	0.8

165 Ho (ISTD) [No Gas]

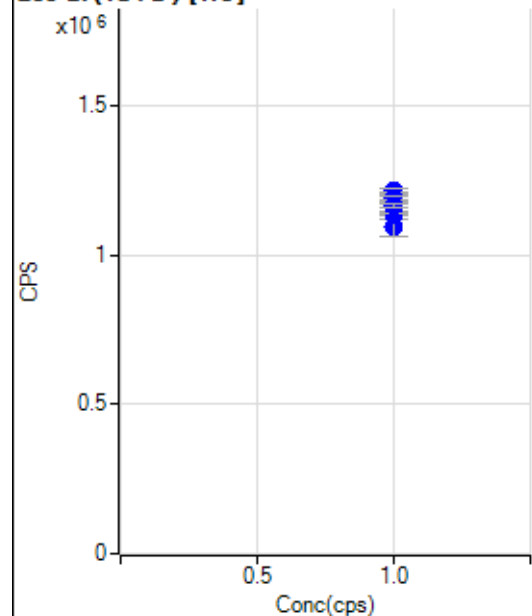
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3717656.16		A	1.3
2	☐	1.000		3703353.47		A	0.9
3	☐	1.000		3723701.17		A	0.9
4	☐	1.000		3731080.94		A	0.8
5	☐	1.000		3831425.52		A	2.1
6	☐	1.000		3757865.14		A	5.9
7	☐	1.000		3827925.52		A	2.7
8	☐	1.000		3851452.99		A	1.6
9	☐	1.000		3866408.24		A	2.3

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1549098.07		A	5.9
2	☐	1.000		1607373.88		A	1.1
3	☐	1.000		1622702.61		A	1.1
4	☐	1.000		1643882.72		A	2.7
5	☐	1.000		1677389.75		A	0.4
6	☐	1.000		1696445.72		A	2.6
7	☐	1.000		1757671.07		A	0.9
8	☐	1.000		1740137.42		A	2.2
9	☐	1.000		1729117.28		A	1.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2124955.23		A	1.6
2	☐	1.000		2155780.47		A	0.8
3	☐	1.000		2162616.11		A	0.8
4	☐	1.000		2147396.17		A	2.5
5	☐	1.000		2187283.65		A	1.7
6	☐	1.000		2140552.55		A	7.1
7	☐	1.000		2164116.96		A	1.9
8	☐	1.000		2217815.89		A	2.0
9	☐	1.000		2115906.62		A	3.5

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1092867.20		P	5.5
2	☐	1.000		1134562.27		P	0.1
3	☐	1.000		1142670.79		P	0.5
4	☐	1.000		1155674.33		P	2.5
5	☐	1.000		1176180.15		P	0.5
6	☐	1.000		1192407.12		P	2.1
7	☐	1.000		1214199.04		P	1.2
8	☐	1.000		1191495.45		P	1.3
9	☐	1.000		1164990.63		P	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012721 MS.b
Acq. Date-Time 2021-01-27 11:36:31
Report Comment ---
Instrument Name G8403A SG19224459

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		2705	27046.42			1.150	5.000
24		40344	403443.79			0.693	5.000
25		5339	53390.33			0.845	5.000
26		6020	60204.73			0.972	5.000
59		6538	65377.88			1.392	5.000
113		3030	30299.97			1.192	5.000
115		9852	98522.11			1.210	5.000
206		3326	33255.45			1.180	5.000
207		2768	27679.85			0.800	5.000
208		6793	67925.03			0.999	5.000
220		1	7.50			27.080	

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

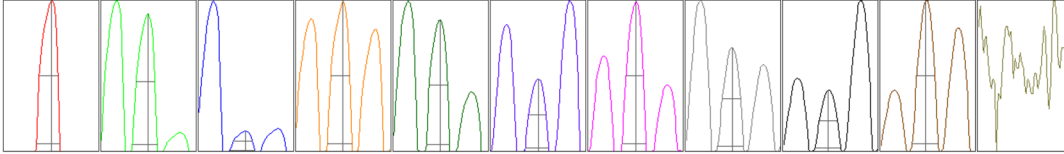
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2735	2741	2681	2689	2676
24	40613	40654	40286	40145	40024
25	5375	5392	5333	5313	5282
26	6072	6088	5959	6014	5969
59	6602	6638	6514	6402	6533
113	3024	3090	3000	3032	3004
115	9875	10019	9721	9754	9892
206	3290	3391	3323	3302	3321
207	2755	2807	2753	2759	2766
208	6773	6909	6731	6771	6778

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4914.18	9.05	8.90 - 9.10	
24	72520.22	24.00	23.90 - 24.10	
25	9476.19	25.00	24.90 - 25.10	
26	10778.48	26.00	25.90 - 26.10	
59	12057.63	59.00	58.90 - 59.10	
113	5818.77	113.05	112.90 - 113.10	
115	19082.65	115.05	114.90 - 115.10	
206	6055.13	206.00	205.90 - 206.10	
207	5026.64	206.95	206.90 - 207.10	
208	12495.54	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.737	0.900	
24	0.59	0.784	0.900	
25	0.60	0.779	0.900	
26	0.60	0.784	0.900	
59	0.57	0.737	0.900	
113	0.54	0.733	0.900	
115	0.53	0.764	0.900	
206	0.57	0.815	0.900	
207	0.57	0.819	0.900	
208	0.57	0.823	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.52 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	14.8 V
Extract 2	-205.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-95 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1356 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		1412	14119.49			2.998	
89		7534	75337.92			3.533	
205		2685	26852.69			3.969	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	1430	1439	1415	1438	1338
89	7697	7694	7542	7665	7071
205	2759	2782	2685	2689	2510

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	4.8 V
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US EPA Tune Check Report

Extract 2	-205.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-95 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.5 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2190 V	Pulse HV	1356 V