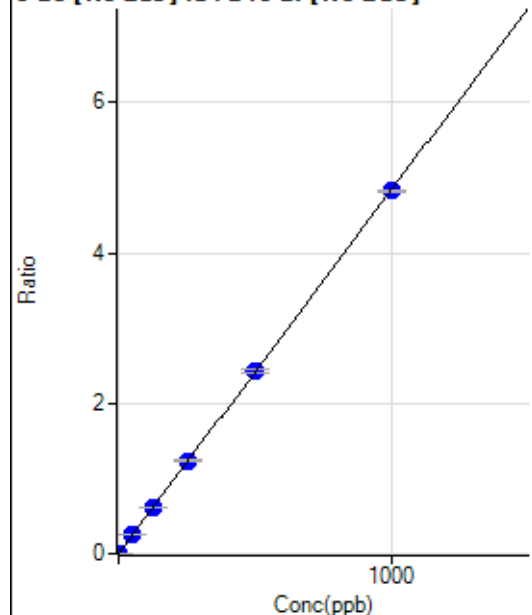


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8091820MS.b\
Analysis File: P8091820MS.batch.bin
DA Date-Time: 2020-09-19 01:20:28
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-18 12:32:50
2	004CALS.d	S01	2020-09-18 12:36:14
3	005CALS.d	S02	2020-09-18 12:39:35
4	006CALS.d	S03	2020-09-18 12:42:59
5	007CALS.d	S04	2020-09-18 12:46:20
6	008CALS.d	S05	2020-09-18 12:49:40
7	009CALS.d	S06	2020-09-18 12:52:52
8	010CALS.d	S07	2020-09-18 12:55:59
9	011CALS.d	S08	2020-09-18 12:58:58

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	59.99	0.0004	P	9.2
2	☐	0.100	0.100	129.97	0.0009	P	4.6
3	☐	1.000	0.951	738.54	0.0050	P	3.8
4	☐	50.000	51.125	36453.55	0.2478	P	0.5
5	☐	125.000	128.225	91570.71	0.6209	P	0.7
6	☐	250.000	254.784	182452.32	1.2332	P	1.2
7	☐	500.000	502.701	367545.52	2.4328	P	2.1
8	☐	1000.000	996.994	746200.69	4.8245	P	0.5
9	☐			221.96	0.0014	P	22.6

$$y = 0.0048 * x + 4.1107E-004$$

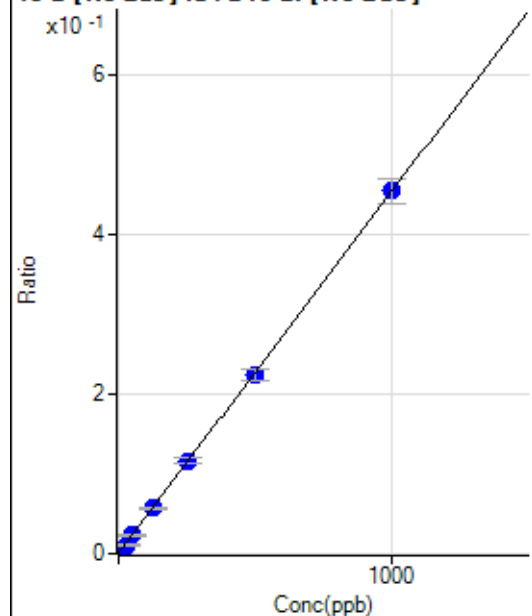
$$R = 1.0000$$

$$DL = 0.02357$$

$$BEC = 0.08495$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	169.97	0.0012	P	7.6
2	☐	2.500	2.162	310.61	0.0021	P	3.9
3	☐	25.000	21.393	1595.78	0.0108	P	7.2
4	☐	50.000	49.000	3428.40	0.0233	P	5.2
5	☐	125.000	122.736	8352.07	0.0566	P	7.1
6	☐	250.000	254.049	17156.61	0.1159	P	6.6
7	☐	500.000	492.581	33810.01	0.2237	P	5.7
8	☐	1000.000	1003.121	70276.16	0.4544	P	6.7
9	☐			7333.76	0.0467	P	15.0

$$y = 4.5180E-004 * x + 0.0012$$

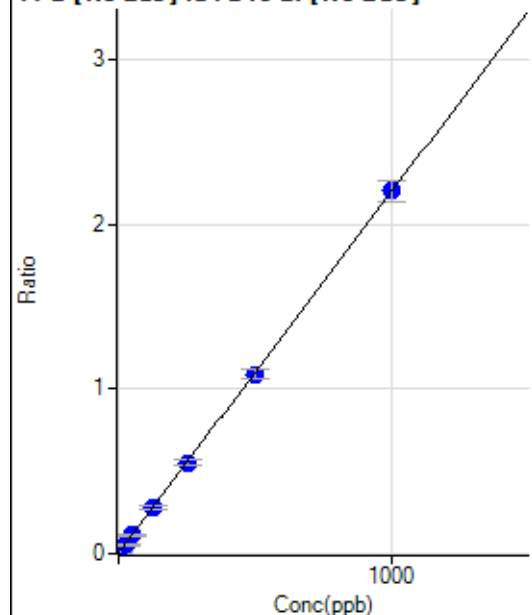
$$R = 0.9999$$

$$DL = 0.5883$$

$$BEC = 2.578$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	721.21	0.0049	P	2.9
2	☐	2.500	2.115	1387.80	0.0096	P	7.3
3	☐	25.000	21.830	7775.88	0.0528	P	6.6
4	☐	50.000	49.823	16790.27	0.1141	P	6.8
5	☐	125.000	124.217	40879.77	0.2771	P	6.5
6	☐	250.000	250.113	81827.83	0.5530	P	6.7
7	☐	500.000	495.431	164836.18	1.0905	P	5.7
8	☐	1000.000	1002.443	340494.00	2.2015	P	5.8
9	☐			35576.89	0.2265	P	14.6

$$y = 0.0022 * x + 0.0049$$

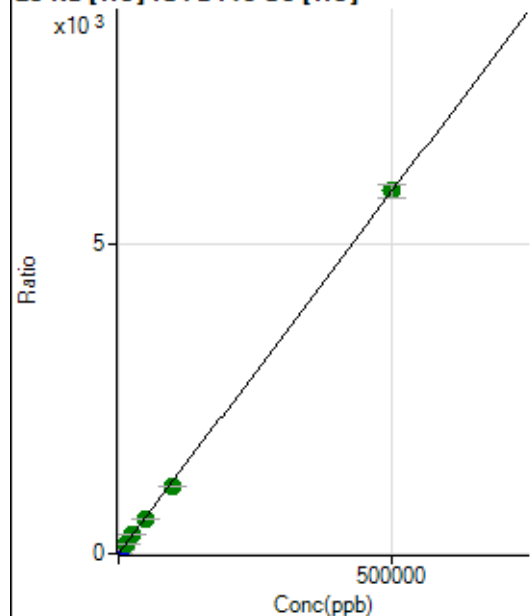
$$R = 1.0000$$

$$DL = 0.1981$$

$$BEC = 2.255$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	32823.50	3.3440	P	1.6
2	☐	50.000	64.579	39336.87	4.0996	P	1.1
3	☐	500.000	504.482	90787.00	9.2462	P	1.4
4	☐	5000.000	5029.202	648093.31	62.1827	P	5.5
5	☐	12500.000	12806.667	1569717.22	153.1744	A	0.2
6	☐	25000.000	25915.769	3086223.57	306.5431	A	4.8
7	☐	50000.000	47989.156	6103646.10	564.7885	A	2.0
8	☐	100000.00	93000.148	12233923.02	1,091.3903	A	1.6
9	☐	500000.00	501547.30	58699540.20	5,871.1483	A	3.5

$$y = 0.0117 * x + 3.3440$$

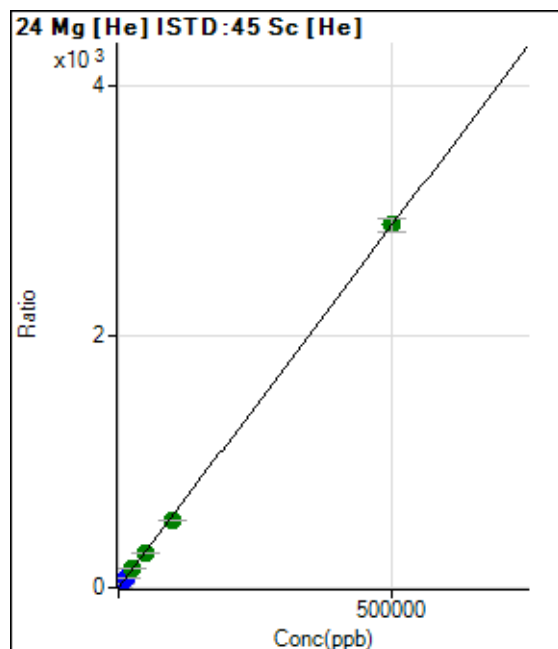
$$R = 0.9999$$

$$DL = 13.43$$

$$BEC = 285.8$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	577.81	0.0589	P	5.2
2	☐	50.000	50.897	3375.48	0.3518	P	5.5
3	☐	500.000	497.053	28667.60	2.9199	P	1.6
4	☐	5000.000	5148.572	309426.97	29.6933	P	5.8
5	☐	12500.000	13163.833	776889.47	75.8280	P	2.3
6	☐	25000.000	26478.928	1535020.56	152.4677	A	4.8
7	☐	50000.000	48412.479	3012117.84	278.7140	A	2.2
8	☐	100000.00	92730.558	5984037.68	533.8023	A	1.0
9	☐	500000.00	501520.61	28862144.05	2,886.7373	A	3.4

$$y = 0.0058 * x + 0.0589$$

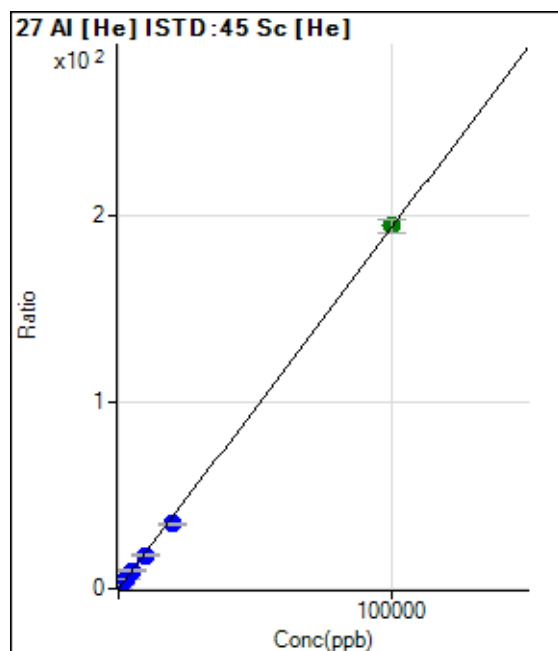
$$R = 0.9999$$

$$DL = 1.597$$

$$BEC = 10.23$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	762.43	0.0777	P	6.5
2	☒	2.000					
3	☐	20.000	21.312	1167.40	0.1189	P	3.2
4	☐	1000.000	963.262	20194.35	1.9390	P	7.3
5	☐	2500.000	2436.604	49038.70	4.7859	P	1.5
6	☐	5000.000	4952.347	97147.82	9.6470	P	3.9
7	☐	10000.000	9255.033	194096.70	17.9609	P	2.3
8	☐	20000.000	17865.702	387861.69	34.5989	P	0.9
9	☐	100000.00	100505.69	1942422.41	194.2810	A	3.5

$$y = 0.0019 * x + 0.0777$$

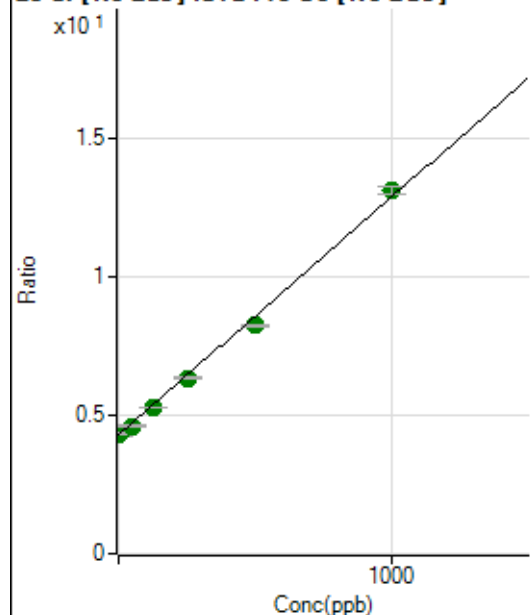
$$R = 0.9997$$

$$DL = 7.892$$

$$BEC = 40.23$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	997248.38	4.2971	A	1.3
2	☐	1.000	7.158	1009084.67	4.3586	A	1.4
3	☐	10.000	5.475	1018696.37	4.3441	A	1.3
4	☐	50.000	35.106	1100873.88	4.5987	A	1.1
5	☐	125.000	112.826	1255880.18	5.2666	A	0.4
6	☐	250.000	238.640	1531894.41	6.3477	A	0.5
7	☐	500.000	460.477	2040563.46	8.2539	A	0.7
8	☐	1000.000	1024.907	3266334.99	13.1040	A	2.2
9	☐			1107041.15	4.5393	A	2.2

$$y = 0.0086 * x + 4.2971$$

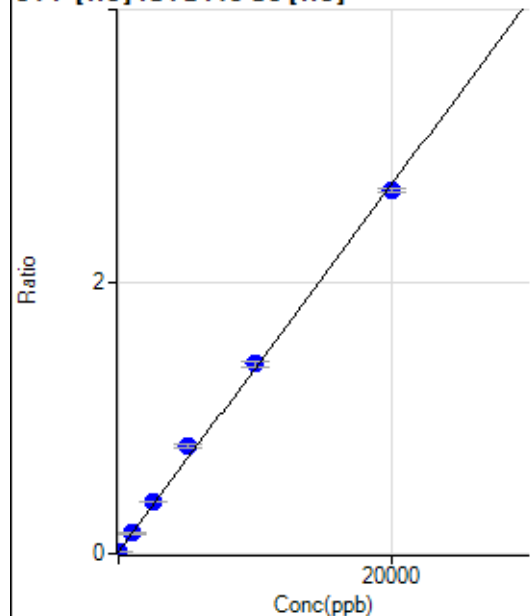
$$R = 0.9987$$

$$DL = 19.11$$

$$BEC = 500.1$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	9.063	152.78	0.0156	P	30.0
2	☐	0.000	0.566	138.89	0.0144	P	27.9
3	☐	0.000	-9.629	127.78	0.0130	P	12.1
4	☐	1000.000	1032.420	1602.91	0.1537	P	8.8
5	☐	2500.000	2736.225	3933.99	0.3838	P	1.4
6	☐	5000.000	5752.070	7971.85	0.7911	P	2.2
7	☐	10000.000	10238.041	15094.39	1.3968	P	2.6
8	☐	20000.000	19661.813	29923.15	2.6693	P	1.2
9	☐			119.45	0.0119	P	18.2

$$y = 1.3503E-004 * x + 0.0143$$

$$R = 0.9991$$

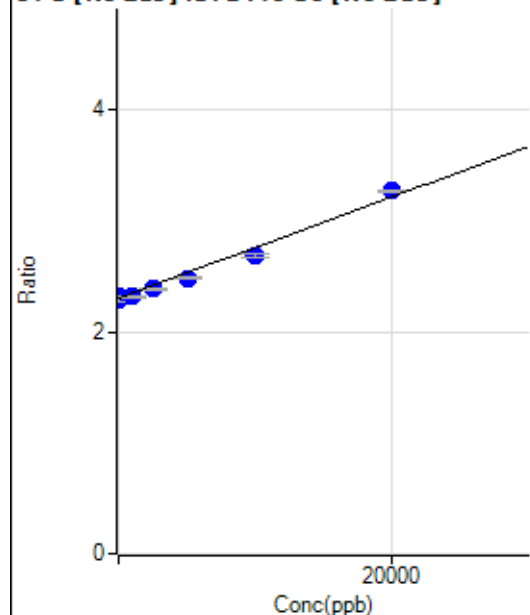
$$DL = 76.1$$

$$BEC = 106.2$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-23.072	534319.20	2.3025	P	1.8
2	☐	0.000	384.614	537390.64	2.3211	P	1.1
3	☐	0.000	-361.542	536361.78	2.2871	P	0.8
4	☐	1000.000	252.599	554207.31	2.3151	P	1.1
5	☐	2500.000	1838.839	569261.97	2.3873	P	0.5
6	☐	5000.000	3949.804	599313.45	2.4833	P	0.2
7	☐	10000.000	8373.960	663658.78	2.6846	P	1.1
8	☐	20000.000	21195.584	814614.76	3.2679	P	0.4
9	☐			530023.05	2.1731	P	1.8

$$y = 4.5496E-005 * x + 2.3036$$

$$R = 0.9936$$

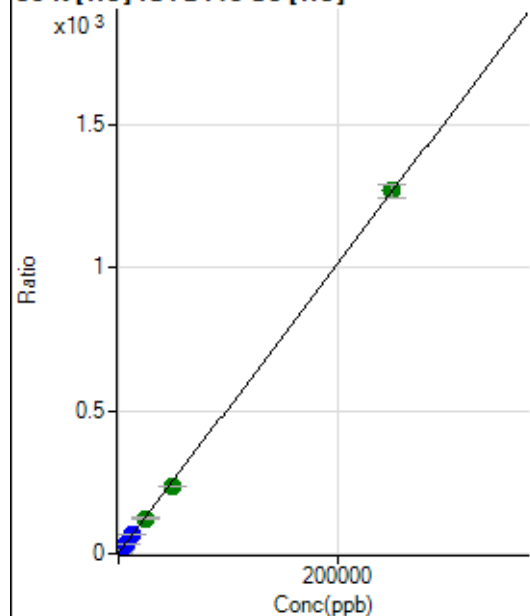
$$DL = 1848$$

$$BEC = 5.063E+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30521.69	3.1092	P	1.0
2	☐	50.000	60.539	32757.15	3.4145	P	2.2
3	☐	500.000	482.520	54405.79	5.5425	P	2.9
4	☐	2500.000	2494.892	163496.17	15.6907	P	6.1
5	☐	6250.000	6352.820	360103.20	35.1459	P	1.8
6	☐	12500.000	12951.445	688917.00	68.4222	P	4.5
7	☐	25000.000	23924.768	1337441.60	123.7598	A	2.6
8	☐	50000.000	45737.582	2620531.27	233.7600	A	0.8
9	☐	250000.00	250934.94	12683184.57	1,268.5532	A	3.4

$$y = 0.0050 * x + 3.1092$$

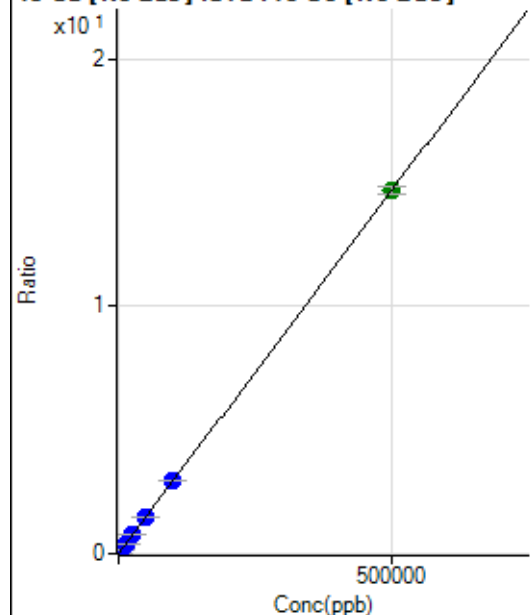
$$R = 0.9998$$

$$DL = 17.95$$

$$BEC = 616.5$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	274.14	0.0012	P	12.7
2	☐	50.000	56.972	660.77	0.0029	P	2.2
3	☐	500.000	490.093	3647.52	0.0156	P	3.5
4	☐	5000.000	5158.303	36490.69	0.1524	P	0.6
5	☐	12500.000	12858.373	90186.53	0.3782	P	0.3
6	☐	25000.000	25421.589	180163.80	0.7466	P	0.8
7	☐	50000.000	49903.401	361996.67	1.4644	P	1.9
8	☐	100000.00	100374.17	733922.98	2.9442	P	0.8
9	☐	500000.00	499903.21	3575064.94	14.6588	A	2.0

$$y = 2.9321\text{E-}005 * x + 0.0012$$

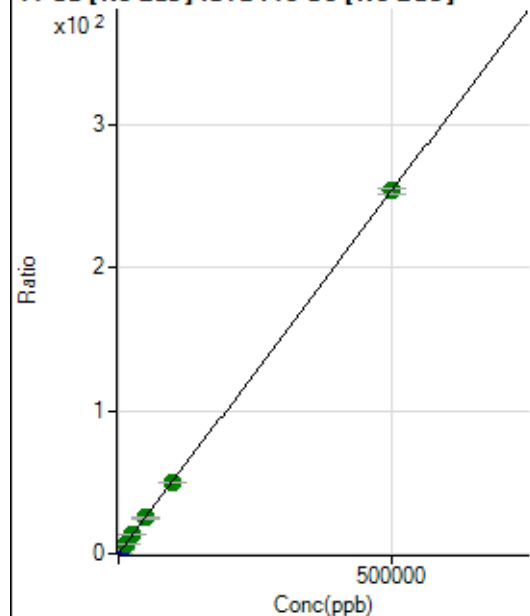
$$R = 1.0000$$

$$DL = 15.43$$

$$BEC = 40.35$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	30284.60	0.1305	P	2.0
2	☐	50.000	57.939	37009.93	0.1599	P	0.8
3	☐	500.000	492.879	89138.67	0.3801	P	0.9
4	☐	5000.000	5076.932	646713.03	2.7015	P	1.1
5	☐	12500.000	12854.757	1583389.77	6.6404	A	1.5
6	☐	25000.000	25750.591	3178346.07	13.1710	A	1.5
7	☐	50000.000	49303.730	6204220.21	25.0987	A	2.4
8	☐	100000.00	98730.977	12495801.28	50.1294	A	0.9
9	☐	500000.00	500276.27	61824471.21	253.4781	A	1.3

$$y = 5.0642\text{E-}004 * x + 0.1305$$

$$R = 1.0000$$

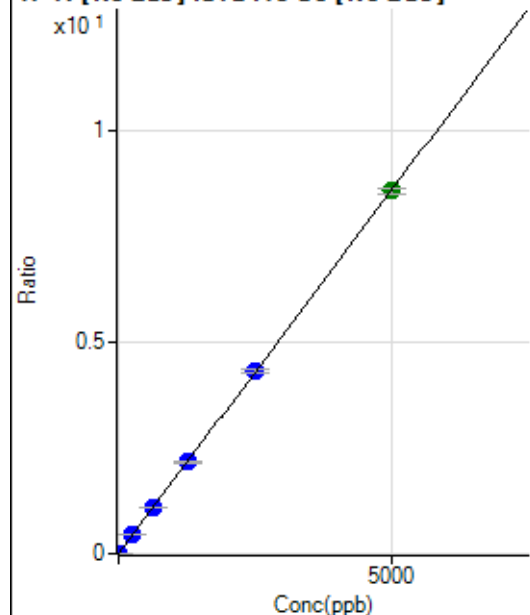
$$DL = 15.66$$

$$BEC = 257.7$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	502.80	0.0022	P	5.8
2	☐	0.500	0.492	697.26	0.0030	P	12.9
3	☐	5.000	4.878	2475.28	0.0106	P	4.3
4	☐	250.000	254.885	105506.47	0.4407	P	0.8
5	☐	625.000	642.408	264095.80	1.1075	P	0.6
6	☐	1250.000	1263.432	525100.09	2.1760	P	1.5
7	☐	2500.000	2504.604	1065782.03	4.3115	P	2.1
8	☐	5000.000	4991.920	2141448.44	8.5910	A	1.7
9	☐			638.92	0.0026	P	9.8

$$y = 0.0017 * x + 0.0022$$

$$R = 1.0000$$

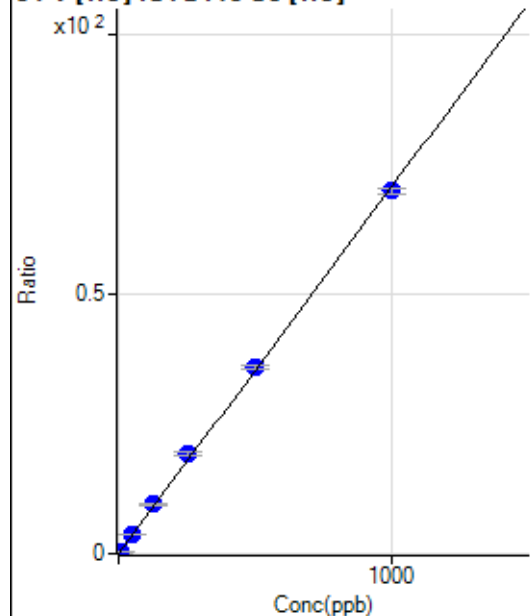
$$DL = 0.2191$$

$$BEC = 1.259$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	14.44	0.0015	P	35.4
2	☐	0.500	0.494	348.89	0.0363	P	7.2
3	☐	5.000	5.425	3768.31	0.3839	P	4.6
4	☐	50.000	51.850	38111.85	3.6566	P	5.3
5	☐	125.000	133.751	96621.99	9.4302	P	1.8
6	☐	250.000	272.530	193475.70	19.2133	P	4.1
7	☐	500.000	507.518	386653.24	35.7787	P	2.2
8	☐	1000.000	989.420	781882.80	69.7501	P	1.4
9	☐			111.11	0.0111	P	1.8

$$y = 0.0705 * x + 0.0015$$

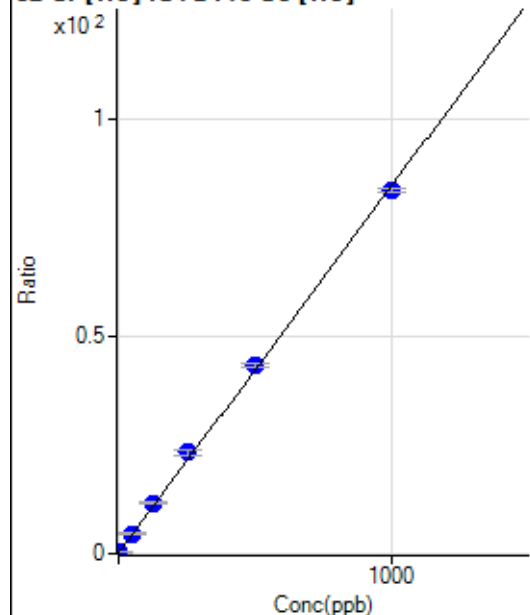
$$R = 0.9997$$

$$DL = 0.02217$$

$$BEC = 0.02086$$

Weight: <None>

Min Conc: 0

52 Cr [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	962.26	0.0981	P	8.6
2	☒	0.200					
3	☐	2.000	2.207	2791.41	0.2843	P	2.9
4	☐	50.000	52.830	47477.38	4.5553	P	5.4
5	☐	125.000	135.705	118295.10	11.5472	P	3.0
6	☐	250.000	274.695	234317.57	23.2734	P	4.7
7	☐	500.000	511.466	467377.19	43.2491	P	2.3
8	☐	1000.000	986.613	934198.01	83.3360	P	1.1
9	☐			1960.15	0.1962	P	8.4

$$y = 0.0844 * x + 0.0981$$

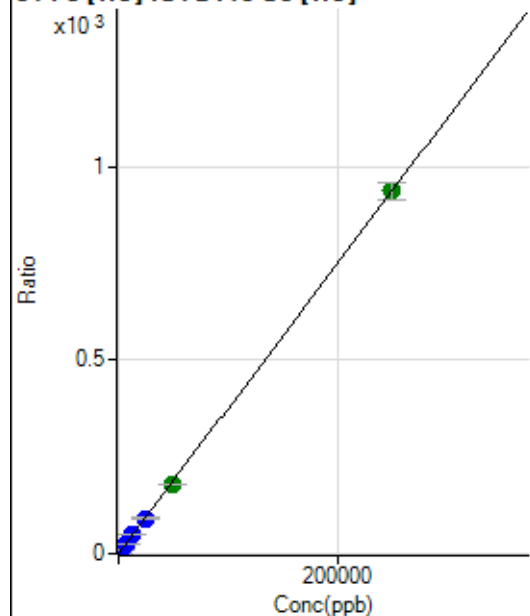
$$R = 0.9995$$

$$DL = 0.2991$$

$$BEC = 1.163$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	442.61	0.0451	P	10.3
2	☐	5.000	6.440	662.99	0.0691	P	17.4
3	☐	50.000	50.866	2309.48	0.2352	P	3.0
4	☐	2500.000	2499.397	97784.25	9.3883	P	7.3
5	☐	6250.000	6470.647	248306.10	24.2337	P	1.6
6	☐	12500.000	13029.431	491016.48	48.7517	P	3.4
7	☐	25000.000	24328.983	983268.40	90.9918	P	2.6
8	☐	50000.000	47664.535	1997766.72	178.2248	A	1.8
9	☐	250000.00	250502.21	9360233.08	936.4732	A	4.7

$$y = 0.0037 * x + 0.0451$$

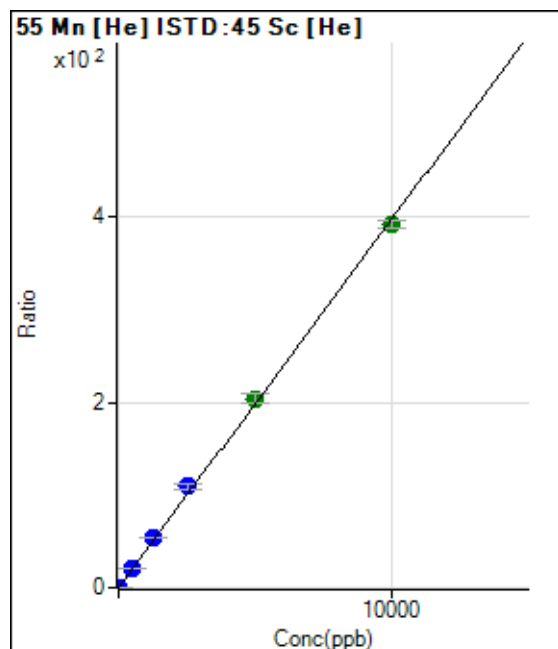
$$R = 0.9999$$

$$DL = 3.722$$

$$BEC = 12.06$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	130.00	0.0133	P	10.7
2	☐	0.100	0.084	158.89	0.0166	P	27.0
3	☐	1.000	1.046	537.79	0.0548	P	5.4
4	☐	500.000	526.112	217746.00	20.8925	P	5.5
5	☐	1250.000	1343.155	546351.35	53.3177	P	1.1
6	☐	2500.000	2744.210	1096828.08	108.9200	P	4.0
7	☐	5000.000	5138.179	2203142.04	203.9271	A	4.5
8	☐	10000.000	9856.908	4385054.93	391.1946	A	2.1
9	☐			2841.43	0.2838	P	6.3

$$y = 0.0397 * x + 0.0133$$

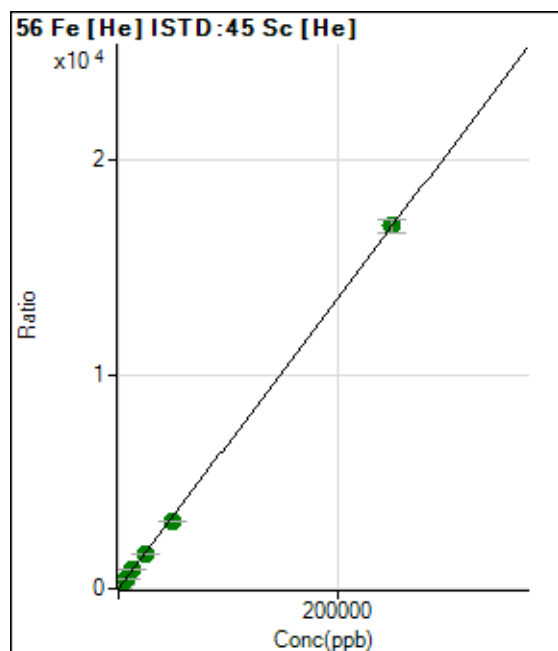
$$R = 0.9995$$

$$DL = 0.1069$$

$$BEC = 0.334$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3287.47	0.3350	P	6.0
2	☐	5.000	5.141	6547.90	0.6826	P	2.7
3	☐	50.000	49.940	36433.72	3.7111	P	3.0
4	☐	2500.000	2481.929	1751950.00	168.1214	A	5.8
5	☐	6250.000	6384.247	4425733.81	431.9307	A	1.6
6	☐	12500.000	12962.581	8829341.69	876.6473	A	3.4
7	☐	25000.000	23990.444	17528155.25	1,622.1663	A	3.2
8	☐	50000.000	46309.127	35096140.60	3,130.9812	A	1.9
9	☐	250000.00	250812.82	169525509.3	16,956.090	A	3.6

$$y = 0.0676 * x + 0.3350$$

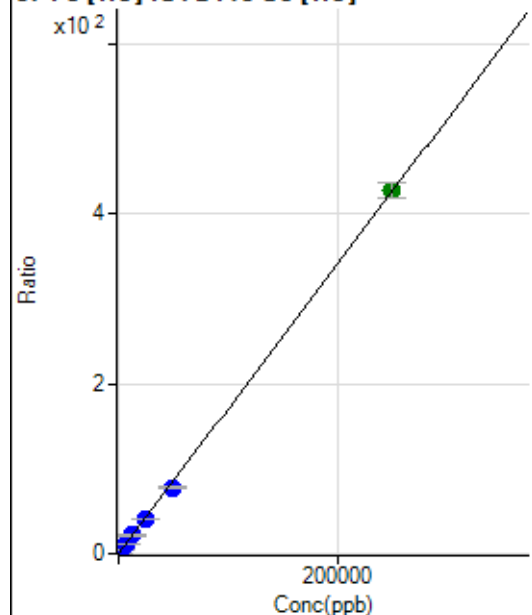
$$R = 0.9999$$

$$DL = 0.8988$$

$$BEC = 4.956$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	118.52	0.0121	P	29.4
2	☐	5.000	6.409	220.38	0.0230	P	3.1
3	☐	50.000	52.655	998.20	0.1016	P	4.9
4	☐	2500.000	2441.252	43380.96	4.1631	P	6.0
5	☐	6250.000	6287.595	109669.92	10.7032	P	1.5
6	☐	12500.000	12700.372	217595.36	21.6073	P	3.8
7	☐	25000.000	23731.334	436197.73	40.3639	P	2.3
8	☐	50000.000	45810.584	873321.76	77.9065	P	1.4
9	☐	250000.00	250954.37	4265691.88	426.7248	A	4.2

$$y = 0.0017 * x + 0.0121$$

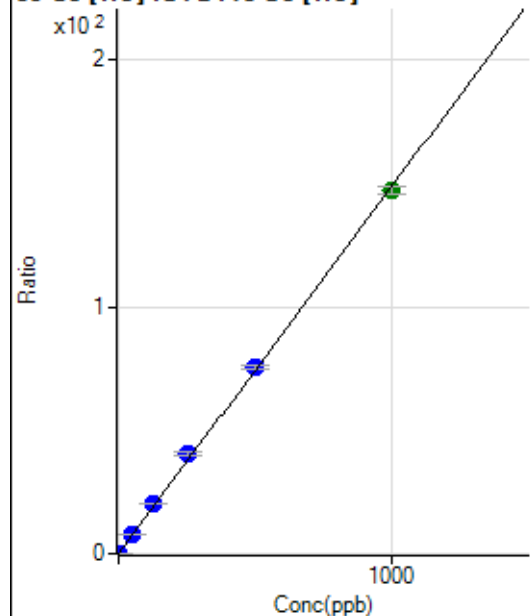
$$R = 0.9998$$

$$DL = 6.262$$

$$BEC = 7.091$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.11	0.0042	P	18.6
2	☐	0.100	0.097	177.78	0.0186	P	26.2
3	☐	1.000	1.123	1677.90	0.1710	P	6.4
4	☐	50.000	52.284	81001.96	7.7702	P	5.0
5	☐	125.000	136.076	207131.95	20.2164	P	2.0
6	☐	250.000	273.384	408894.43	40.6115	P	4.6
7	☐	500.000	507.861	815246.90	75.4399	P	2.4
8	☐	1000.000	988.725	1646207.65	146.8655	A	2.3
9	☐			2721.40	0.2723	P	5.9

$$y = 0.1485 * x + 0.0042$$

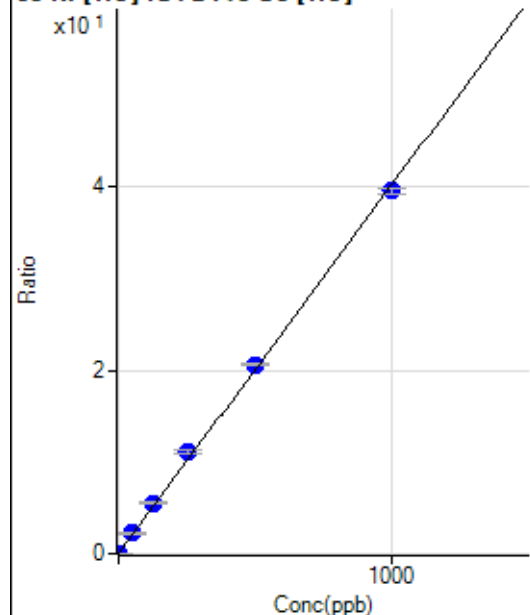
$$R = 0.9996$$

$$DL = 0.01573$$

$$BEC = 0.02826$$

Weight: <None>

Min Conc: 0

⁶⁰Ni [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	164.45	0.0167	P	10.2
2	☒	0.100					
3	☐	1.000	1.130	610.02	0.0621	P	3.4
4	☐	50.000	54.480	22997.49	2.2071	P	6.1
5	☐	125.000	136.693	56482.69	5.5124	P	1.9
6	☐	250.000	277.788	112645.65	11.1850	P	3.7
7	☐	500.000	513.657	223374.99	20.6681	P	1.7
8	☐	1000.000	984.539	443910.53	39.5997	P	1.3
9	☐			711.14	0.0712	P	14.7

$$y = 0.0402 * x + 0.0167$$

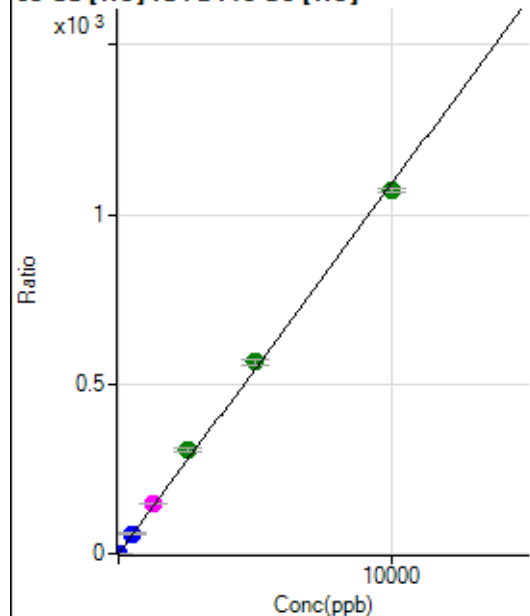
$$R = 0.9994$$

$$DL = 0.1268$$

$$BEC = 0.416$$

Weight: <None>

Min Conc: 0

⁶³Cu [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	457.66	0.0467	P	7.6
2	☐	0.200	0.191	648.02	0.0675	P	1.5
3	☐	2.000	2.085	2688.84	0.2739	P	4.0
4	☐	500.000	531.660	604478.75	57.9961	P	5.4
5	☐	1250.000	1365.109	1525027.42	148.8397	M	1.7
6	☐	2500.000	2811.423	3086886.07	306.4838	A	3.3
7	☐	5000.000	5181.175	6102978.20	564.7801	A	2.9
8	☐	10000.000	9815.585	11993767.62	1,069.9176	A	1.2
9	☐			4032.33	0.4032	P	1.9

$$y = 0.1090 * x + 0.0467$$

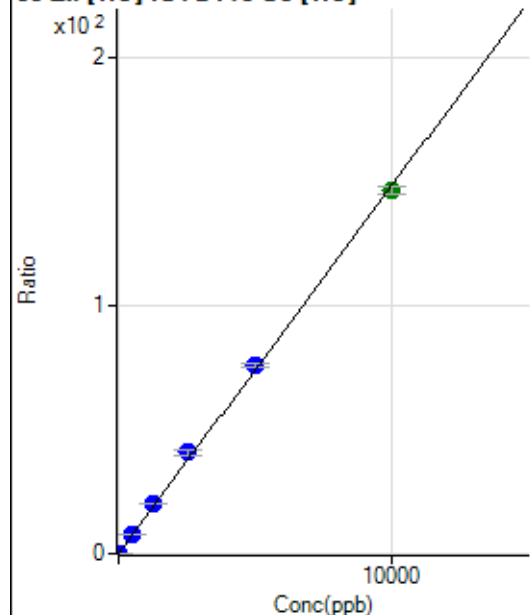
$$R = 0.9992$$

$$DL = 0.09775$$

$$BEC = 0.428$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	107.78	0.0110	P	9.2
2	☒	0.200					
3	☐	2.000	2.482	468.90	0.0478	P	14.2
4	☐	500.000	533.534	82646.80	7.9282	P	5.2
5	☐	1250.000	1361.848	207173.77	20.2198	P	1.8
6	☐	2500.000	2748.553	410764.75	40.7975	P	4.6
7	☐	5000.000	5108.861	819407.29	75.8227	P	2.1
8	☐	10000.000	9867.773	1641524.18	146.4415	A	2.2
9	☐			2429.12	0.2432	P	8.4

$$y = 0.0148 * x + 0.0110$$

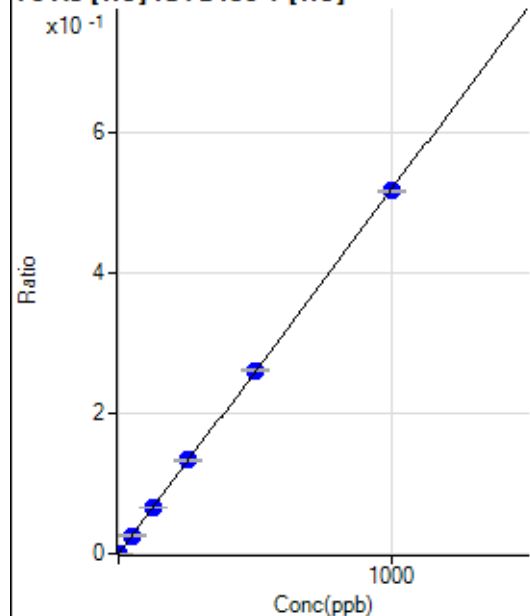
$$R = 0.9995$$

$$DL = 0.2041$$

$$BEC = 0.7405$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.33	0.0000	P	28.3
2	☐	0.100	0.107	22.00	0.0001	P	16.6
3	☐	1.000	1.078	137.01	0.0006	P	7.8
4	☐	50.000	49.462	6187.65	0.0257	P	3.2
5	☐	125.000	126.072	15424.29	0.0654	P	0.6
6	☐	250.000	257.286	31179.69	0.1335	P	2.1
7	☐	500.000	503.621	62335.30	0.2612	P	1.0
8	☐	1000.000	996.261	125304.32	0.5167	P	0.5
9	☐			48.34	0.0002	P	8.0

$$y = 5.1862E-004 * x + 4.1023E-005$$

$$R = 1.0000$$

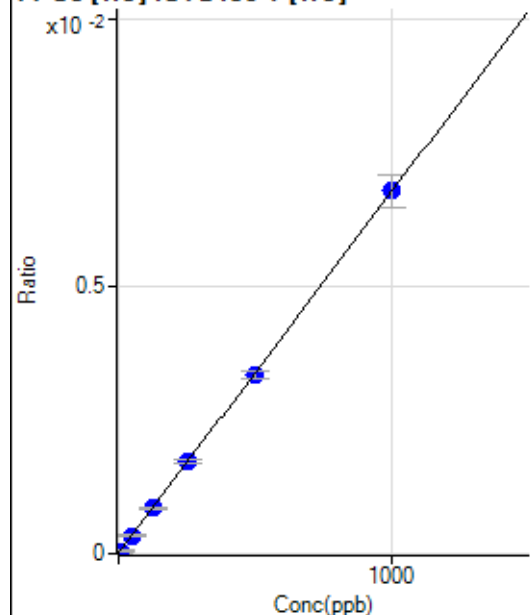
$$DL = 0.06713$$

$$BEC = 0.0791$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2.22	0.0000	P	86.6
2	☐	0.500	2.865	6.67	0.0000	P	3.2
3	☐	5.000	4.457	8.89	0.0000	P	82.4
4	☐	50.000	47.737	80.00	0.0003	P	10.4
5	☐	125.000	124.697	201.12	0.0009	P	3.2
6	☐	250.000	255.847	406.68	0.0017	P	3.8
7	☐	500.000	492.196	796.70	0.0033	P	4.1
8	☐	1000.000	1002.593	1646.78	0.0068	P	8.9
9	☐			3.33	0.0000	P	100.

$$y = 6.7641\text{E-}006 * x + 9.8186\text{E-}006$$

$$R = 0.9999$$

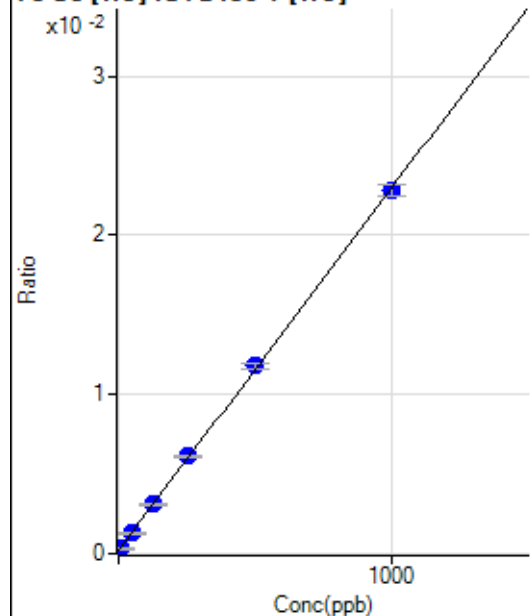
$$DL = 3.772$$

$$BEC = 1.452$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	49.34	0.0002	P	7.3
2	☐	0.500	0.631	52.67	0.0002	P	12.7
3	☐	5.000	4.675	73.34	0.0003	P	16.5
4	☐	50.000	47.308	311.04	0.0013	P	3.8
5	☐	125.000	126.850	730.76	0.0031	P	3.9
6	☐	250.000	259.995	1431.22	0.0061	P	1.6
7	☐	500.000	509.471	2814.90	0.0118	P	3.0
8	☐	1000.000	992.671	5524.31	0.0228	P	3.1
9	☐			48.67	0.0002	P	21.6

$$y = 2.2732\text{E-}005 * x + 2.1630\text{E-}004$$

$$R = 0.9999$$

$$DL = 2.089$$

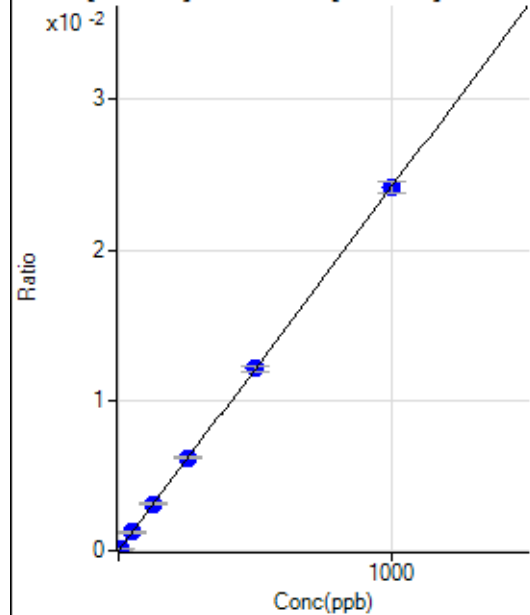
$$BEC = 9.515$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2289.21		P	4.7
2	☐			2342.61		P	9.2
3	☐			2546.21		P	7.9
4	☐			2472.77		P	5.1
5	☐			2539.52		P	3.9
6	☐			2426.04		P	15.5
7	☐			2365.98		P	6.2
8	☐			2282.54		P	4.6
9	☐			2746.46		P	6.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	5.96	0.0000	P	298.
2	☐	0.500	0.543	30.90	0.0000	P	119.
3	☐	5.000	4.318	206.67	0.0001	P	46.8
4	☐	50.000	50.243	2368.20	0.0012	P	3.2
5	☐	125.000	127.936	6043.30	0.0031	P	2.6
6	☐	250.000	254.463	12244.04	0.0062	P	1.5
7	☐	500.000	501.577	24374.89	0.0121	P	3.4
8	☐	1000.000	997.720	48985.18	0.0241	P	3.0
9	☐			-39.22	0.0000	P	-60.

$$y = 2.4181\text{E-}005 * x + 3.2575\text{E-}006$$

$$R = 1.0000$$

$$DL = 1.208$$

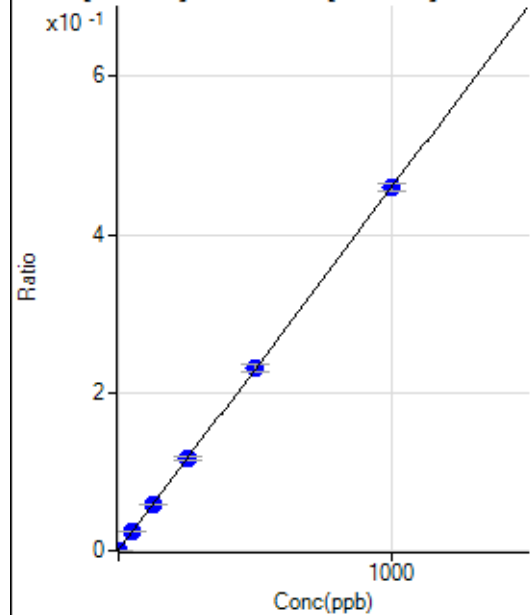
$$BEC = 0.1347$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			638.91		P	5.3
2	☐			563.35		P	6.7
3	☐			626.69		P	9.3
4	☐			611.13		P	7.7
5	☐			597.80		P	6.9
6	☐			584.46		P	15.3
7	☐			586.69		P	8.0
8	☐			578.91		P	4.8
9	☐			665.58		P	1.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	930.61	0.0005	P	15.8
2	☐	0.100	0.099	1005.62	0.0005	P	18.0
3	☐	1.000	0.950	1772.39	0.0009	P	6.2
4	☐	50.000	50.759	46249.01	0.0238	P	1.3
5	☐	125.000	126.696	114463.81	0.0587	P	0.7
6	☐	250.000	251.524	230541.54	0.1160	P	3.7
7	☐	500.000	500.663	462740.27	0.2303	P	4.0
8	☐	1000.000	999.037	932286.50	0.4591	P	2.0
9	☐			5790.21	0.0029	P	7.5

$$y = 4.5909\text{E-}004 * x + 4.8589\text{E-}004$$

$$R = 1.0000$$

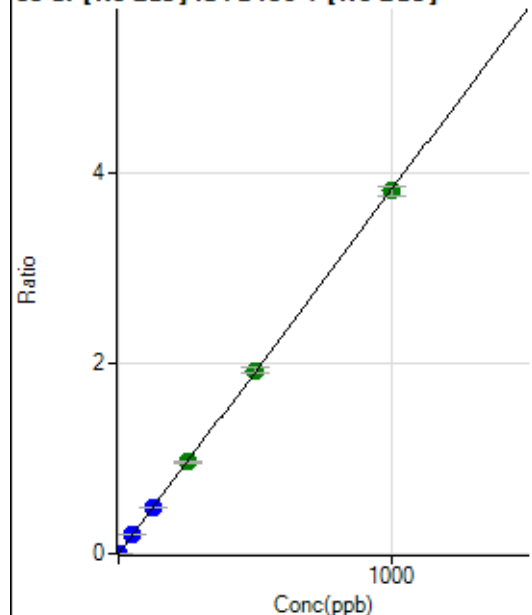
$$DL = 0.5012$$

$$BEC = 1.058$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	60.1
2	☐	0.100	0.113	883.39	0.0005	P	7.4
3	☐	1.000	0.969	7202.06	0.0037	P	2.7
4	☐	50.000	52.177	388449.45	0.1998	P	0.7
5	☐	125.000	128.818	962589.29	0.4932	P	0.7
6	☐	250.000	253.064	1926580.60	0.9690	A	2.5
7	☐	500.000	502.956	3869215.41	1.9257	A	3.0
8	☐	1000.000	997.170	7751536.89	3.8179	A	2.5
9	☐			42846.98	0.0213	P	1.3

$$y = 0.0038 * x + 3.3189E-005$$

$$R = 1.0000$$

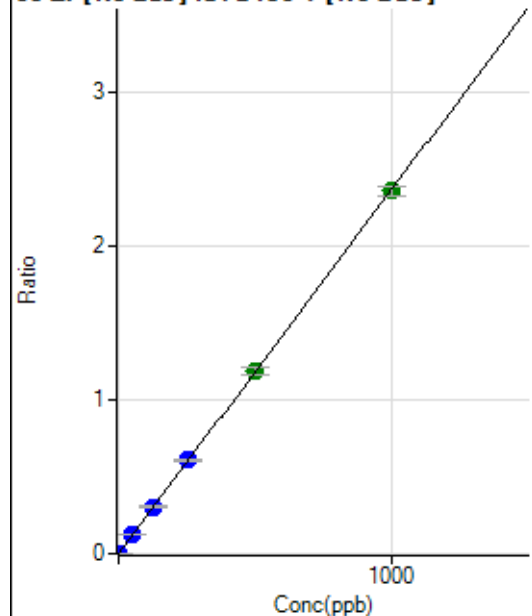
$$DL = 0.01562$$

$$BEC = 0.008668$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	41.66	0.0000	P	68.7
2	☐	0.100	0.104	508.36	0.0003	P	20.4
3	☐	1.000	0.956	4389.70	0.0023	P	3.7
4	☐	50.000	51.538	236891.30	0.1219	P	1.5
5	☐	125.000	129.181	595984.66	0.3054	P	1.3
6	☐	250.000	256.420	1205447.29	0.6062	P	1.6
7	☐	500.000	502.086	2384641.54	1.1869	A	3.6
8	☐	1000.000	996.753	4784313.21	2.3563	A	2.3
9	☐			1127.85	0.0006	P	6.2

$$y = 0.0024 * x + 2.1590E-005$$

$$R = 1.0000$$

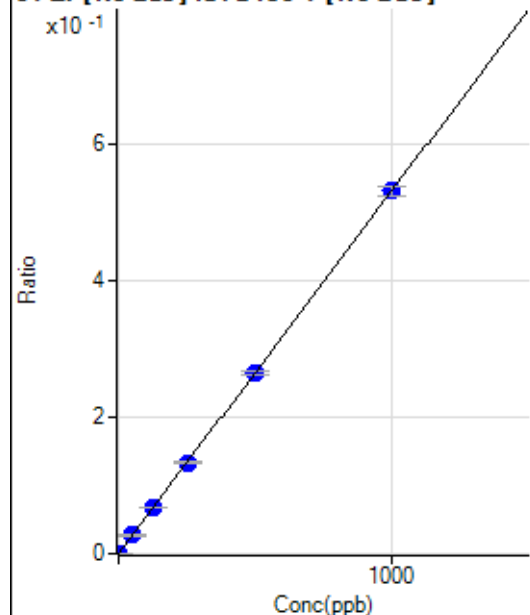
$$DL = 0.01882$$

$$BEC = 0.009133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	116.
2	☐	0.100	0.094	105.56	0.0001	P	28.1
3	☐	1.000	0.869	900.05	0.0005	P	4.7
4	☐	50.000	50.455	52139.78	0.0268	P	2.5
5	☐	125.000	127.353	132086.07	0.0677	P	1.4
6	☐	250.000	249.960	264162.55	0.1328	P	1.8
7	☐	500.000	496.889	530666.25	0.2641	P	1.9
8	☐	1000.000	1001.249	1080397.09	0.5321	P	2.5
9	☐			261.12	0.0001	P	12.9

$$y = 5.3143\text{E-}004 * x + 5.8961\text{E-}006$$

$$R = 1.0000$$

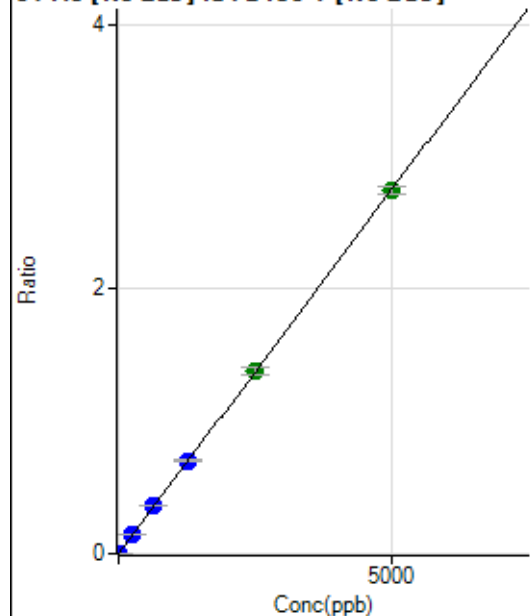
$$DL = 0.03864$$

$$BEC = 0.01109$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	127.78	0.0001	P	20.1
2	☐	0.500	0.506	652.81	0.0003	P	5.4
3	☐	5.000	4.848	5256.68	0.0027	P	2.3
4	☐	250.000	258.587	276664.42	0.1423	P	0.2
5	☐	625.000	650.960	698910.65	0.3581	P	0.3
6	☐	1250.000	1272.193	1391644.80	0.6998	P	1.5
7	☐	2500.000	2509.232	2773076.67	1.3803	A	3.5
8	☐	5000.000	4986.161	5569151.21	2.7427	A	2.1
9	☐			1550.14	0.0008	P	2.4

$$y = 5.5005\text{E-}004 * x + 6.6784\text{E-}005$$

$$R = 1.0000$$

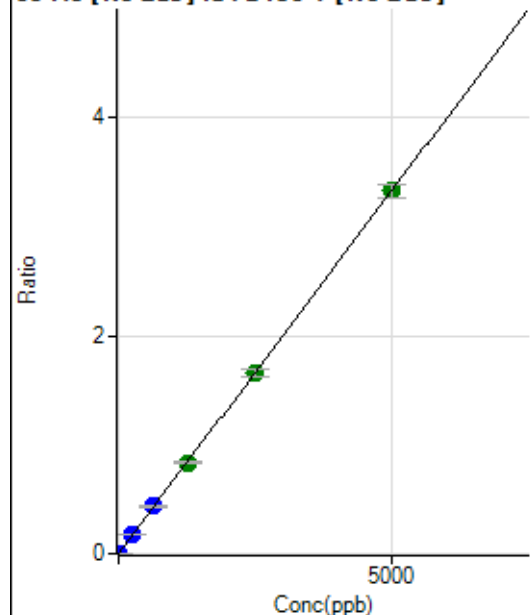
$$DL = 0.07327$$

$$BEC = 0.1214$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	83.0
2	☐	0.500	0.561	736.15	0.0004	P	11.7
3	☐	5.000	4.907	6309.92	0.0033	P	5.2
4	☐	250.000	257.790	333559.44	0.1716	P	1.2
5	☐	625.000	650.739	845193.96	0.4331	P	0.8
6	☐	1250.000	1255.028	1660875.03	0.8352	A	1.7
7	☐	2500.000	2487.682	3326167.61	1.6556	A	3.6
8	☐	5000.000	5001.295	6755904.10	3.3284	A	3.8
9	☐			1975.19	0.0010	P	6.2

$$y = 6.6550E-004 * x + 1.5877E-005$$

$$R = 1.0000$$

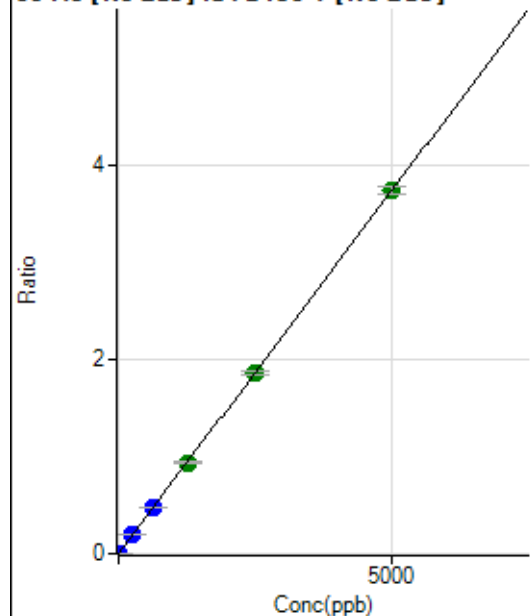
$$DL = 0.05943$$

$$BEC = 0.02386$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	86.11	0.0000	P	39.4
2	☐	0.500	0.490	777.82	0.0004	P	2.6
3	☐	5.000	5.004	7265.97	0.0038	P	2.6
4	☐	250.000	254.932	369780.48	0.1902	P	1.4
5	☐	625.000	643.827	937332.22	0.4803	P	1.0
6	☐	1250.000	1258.836	1867130.34	0.9391	A	2.9
7	☐	2500.000	2487.041	3727865.32	1.8553	A	2.7
8	☐	5000.000	5001.670	7575741.40	3.7311	A	2.1
9	☐			2539.20	0.0013	P	16.9

$$y = 7.4595E-004 * x + 4.5159E-005$$

$$R = 1.0000$$

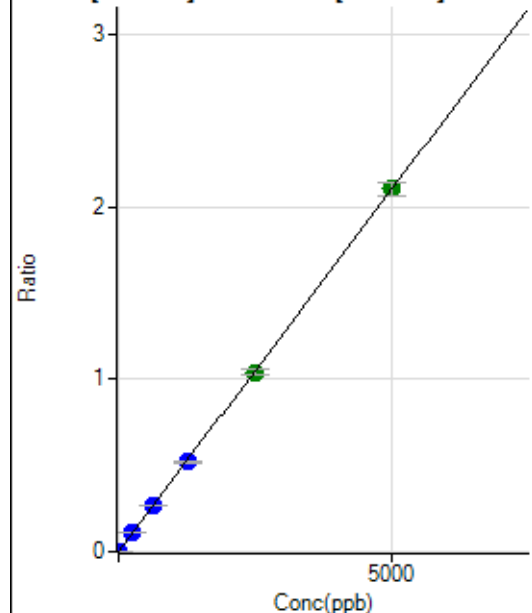
$$DL = 0.07153$$

$$BEC = 0.06054$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	106.
2	☐	0.500	0.542	450.02	0.0002	P	2.8
3	☐	5.000	5.053	4097.95	0.0021	P	6.9
4	☐	250.000	255.856	208755.46	0.1074	P	1.6
5	☐	625.000	639.613	523868.34	0.2684	P	0.2
6	☐	1250.000	1239.171	1034029.24	0.5200	P	2.4
7	☐	2500.000	2481.475	2092194.49	1.0414	A	3.7
8	☐	5000.000	5009.850	4267658.17	2.1025	A	3.6
9	☐			1033.40	0.0005	P	9.3

$$y = 4.1966\text{E-}004 * x + 1.0123\text{E-}005$$

$$R = 1.0000$$

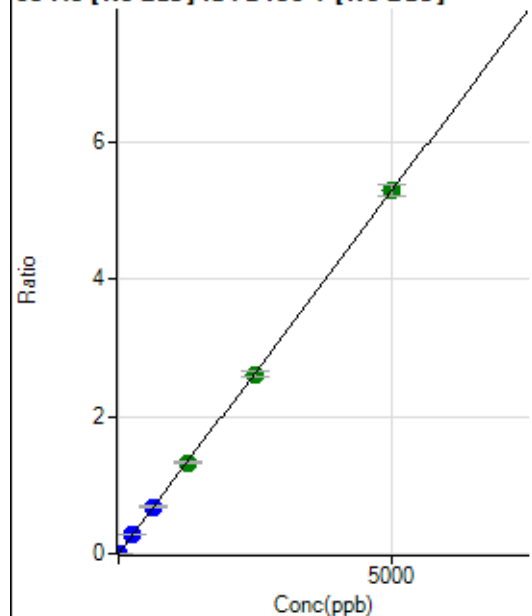
$$DL = 0.07696$$

$$BEC = 0.02412$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	67.5
2	☐	0.500	0.518	1055.62	0.0006	P	15.7
3	☐	5.000	4.959	10095.57	0.0052	P	1.0
4	☐	250.000	255.904	525588.28	0.2703	P	0.4
5	☐	625.000	645.754	1331221.99	0.6822	P	1.7
6	☐	1250.000	1257.208	2640931.03	1.3281	A	1.9
7	☐	2500.000	2478.416	5260267.70	2.6182	A	3.3
8	☐	5000.000	5006.101	10735686.09	5.2884	A	3.1
9	☐			2739.24	0.0014	P	11.6

$$y = 0.0011 * x + 1.0257\text{E-}005$$

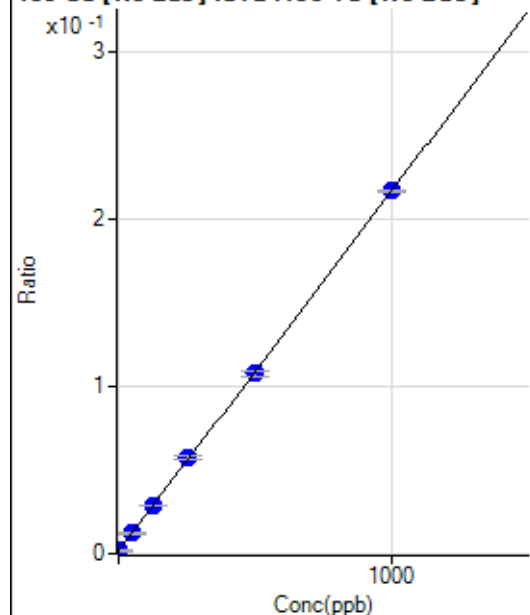
$$R = 1.0000$$

$$DL = 0.01967$$

$$BEC = 0.00971$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	397.24	0.0014	P	30.8
2	☐	0.100	-1.277	319.46	0.0011	P	9.7
3	☐	1.000	1.755	508.36	0.0018	P	18.9
4	☐	50.000	49.599	3547.75	0.0121	P	3.0
5	☐	125.000	125.919	8391.67	0.0285	P	1.0
6	☐	250.000	258.424	16763.46	0.0570	P	4.1
7	☐	500.000	494.647	32589.17	0.1078	P	3.3
8	☐	1000.000	1000.475	65787.82	0.2166	P	0.8
9	☐			500.03	0.0016	P	11.1

$$y = 2.1513E-004 * x + 0.0014$$

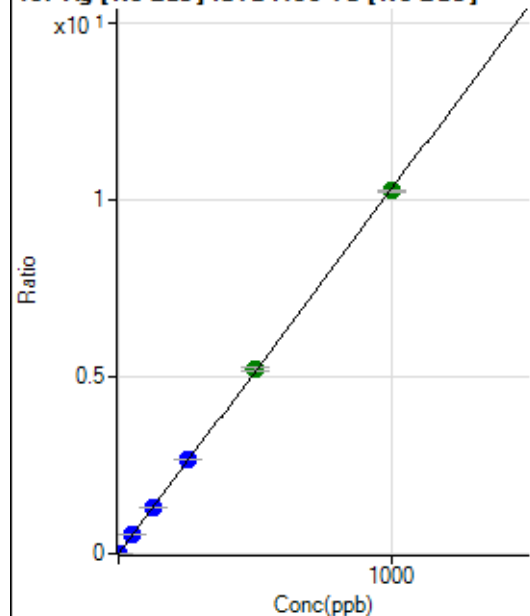
$$R = 0.9999$$

$$DL = 5.997$$

$$BEC = 6.483$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0001	P	89.3
2	☐	0.100	0.097	305.57	0.0011	P	21.0
3	☐	1.000	0.993	2961.53	0.0103	P	5.9
4	☐	50.000	52.840	160288.73	0.5450	P	1.2
5	☐	125.000	128.594	390776.74	1.3264	P	0.5
6	☐	250.000	258.739	785142.74	2.6687	P	1.4
7	☐	500.000	504.465	1573004.96	5.2030	A	2.3
8	☐	1000.000	994.991	3116597.46	10.2622	A	0.6
9	☐			1719.61	0.0057	P	11.5

$$y = 0.0103 * x + 6.7432E-005$$

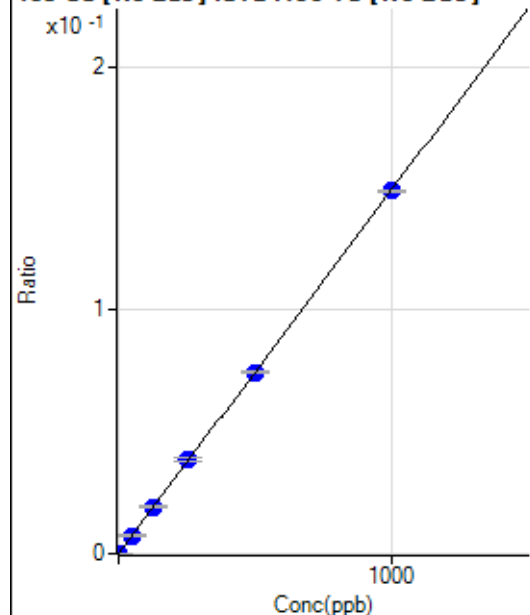
$$R = 0.9999$$

$$DL = 0.01752$$

$$BEC = 0.006538$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	6.94	0.0000	P	35.4
2	☐	0.100	0.131	12.50	0.0000	P	34.0
3	☐	1.000	1.423	68.06	0.0002	P	37.3
4	☐	50.000	49.806	2193.26	0.0075	P	5.0
5	☐	125.000	128.122	5641.50	0.0191	P	2.7
6	☐	250.000	259.083	11384.01	0.0387	P	2.6
7	☐	500.000	499.324	22543.58	0.0746	P	1.1
8	☐	1000.000	997.686	45233.64	0.1489	P	0.7
9	☐			40.28	0.0001	P	7.3

$$y = 1.4927E-004 * x + 2.4358E-005$$

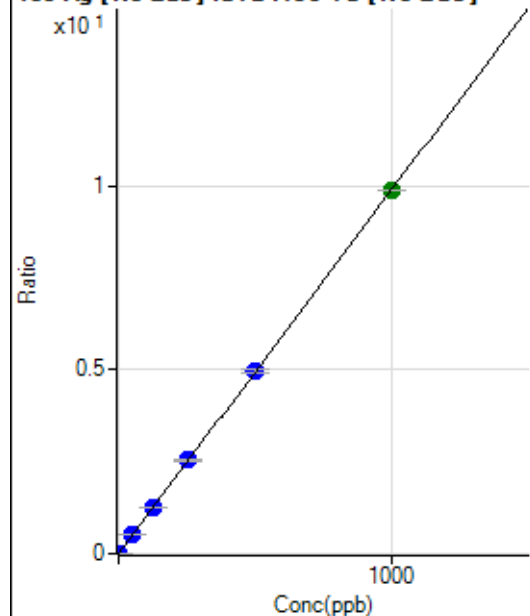
$$R = 1.0000$$

$$DL = 0.1732$$

$$BEC = 0.1632$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0001	P	58.5
2	☐	0.100	0.100	311.12	0.0011	P	15.2
3	☐	1.000	0.993	2853.15	0.0099	P	2.8
4	☐	50.000	51.688	150247.33	0.5108	P	1.8
5	☐	125.000	128.339	373646.82	1.2682	P	0.6
6	☐	250.000	257.154	747641.40	2.5411	P	0.7
7	☐	500.000	500.215	1494390.81	4.9427	P	2.2
8	☐	1000.000	997.602	2993667.21	9.8575	A	0.0
9	☐			1586.24	0.0052	P	8.4

$$y = 0.0099 * x + 1.0755E-004$$

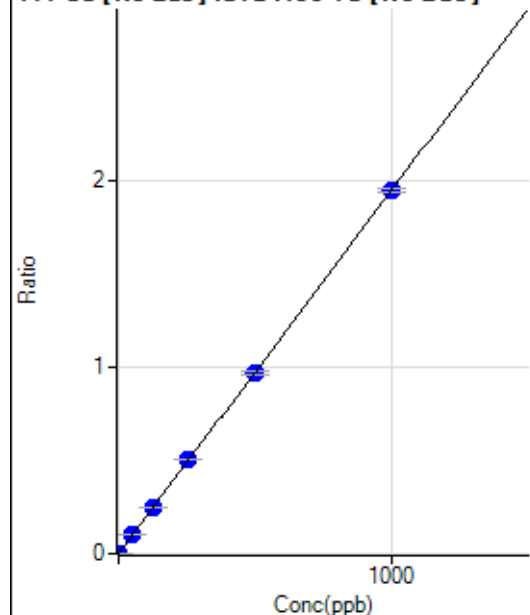
$$R = 1.0000$$

$$DL = 0.01909$$

$$BEC = 0.01088$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.44	0.0000	P	95.6
2	☐	0.100	0.106	66.39	0.0002	P	12.9
3	☐	1.000	1.075	609.97	0.0021	P	4.3
4	☐	50.000	50.798	29155.40	0.0991	P	0.4
5	☐	125.000	127.294	73180.55	0.2484	P	0.1
6	☐	250.000	257.995	148109.00	0.5034	P	0.6
7	☐	500.000	498.263	293918.63	0.9722	P	2.2
8	☐	1000.000	998.543	591675.39	1.9482	P	0.9
9	☐			209.87	0.0007	P	12.3

$$y = 0.0020 * x + 2.6071E-005$$

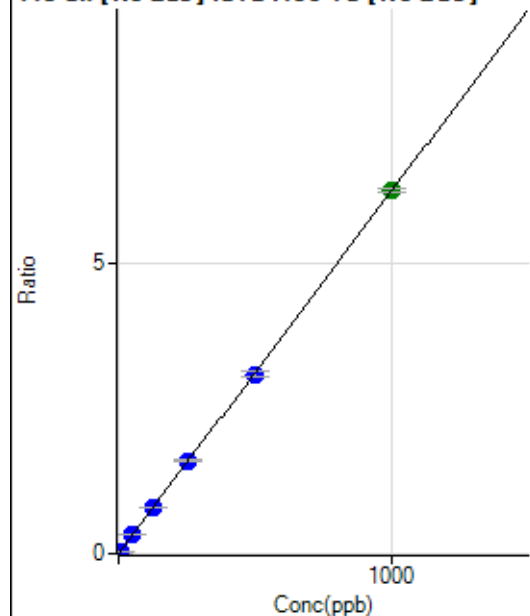
$$R = 1.0000$$

$$DL = 0.03833$$

$$BEC = 0.01336$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	169.45	0.0006	P	41.2
2	☐	0.500	0.469	1005.62	0.0035	P	5.2
3	☐	5.000	4.842	8880.89	0.0309	P	2.7
4	☐	50.000	51.224	94467.57	0.3212	P	0.3
5	☐	125.000	127.338	235002.51	0.7976	P	0.7
6	☐	250.000	255.276	470253.63	1.5984	P	2.0
7	☐	500.000	495.629	938008.47	3.1029	P	3.0
8	☐	1000.000	1000.514	1902046.29	6.2631	A	1.0
9	☐			397.24	0.0013	P	10.4

$$y = 0.0063 * x + 5.9031E-004$$

$$R = 1.0000$$

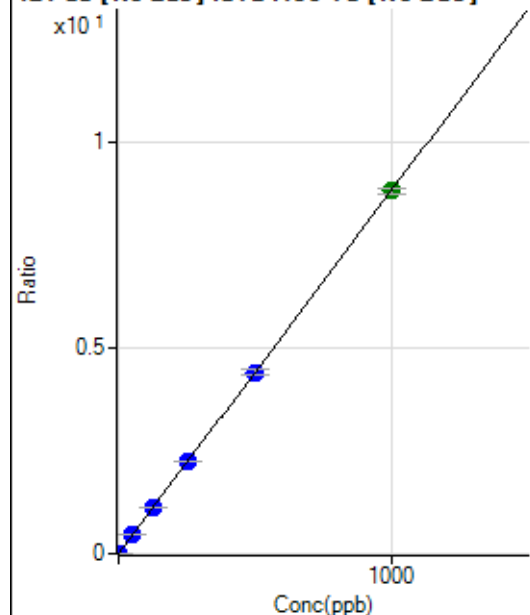
$$DL = 0.1167$$

$$BEC = 0.09431$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0001	P	49.2
2	☐	0.200	0.192	500.02	0.0018	P	9.1
3	☐	2.000	1.939	4931.60	0.0172	P	6.9
4	☐	50.000	50.843	131972.63	0.4487	P	1.2
5	☐	125.000	126.851	329831.10	1.1195	P	1.0
6	☐	250.000	254.980	662079.07	2.2502	P	0.6
7	☐	500.000	499.293	1332069.78	4.4063	P	2.7
8	☐	1000.000	998.835	2676964.17	8.8147	A	1.5
9	☐			1630.70	0.0053	P	15.6

$$y = 0.0088 * x + 5.8080E-005$$

$$R = 1.0000$$

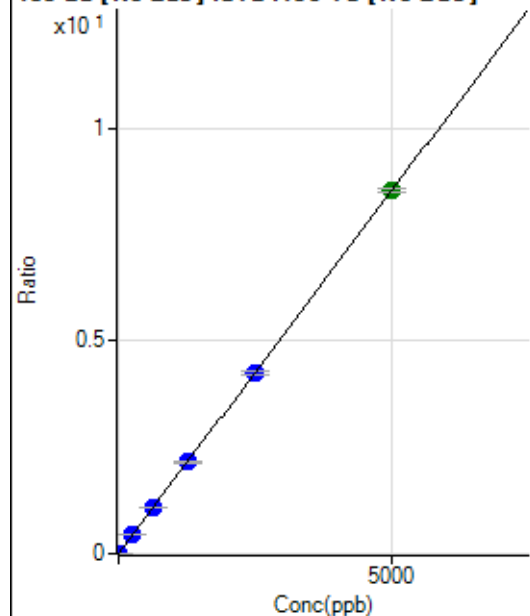
$$DL = 0.009724$$

$$BEC = 0.006581$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	123.
2	☐	1.000	0.909	455.57	0.0016	P	6.0
3	☐	10.000	9.858	4845.46	0.0169	P	2.9
4	☐	250.000	252.735	126734.67	0.4309	P	0.7
5	☐	625.000	632.282	317627.75	1.0780	P	1.1
6	☐	1250.000	1266.991	635542.16	2.1602	P	1.4
7	☐	2500.000	2488.878	1282993.46	4.2434	P	1.7
8	☐	5000.000	5000.267	2589034.28	8.5251	A	0.9
9	☐			4842.70	0.0159	P	4.1

$$y = 0.0017 * x + 4.8314E-005$$

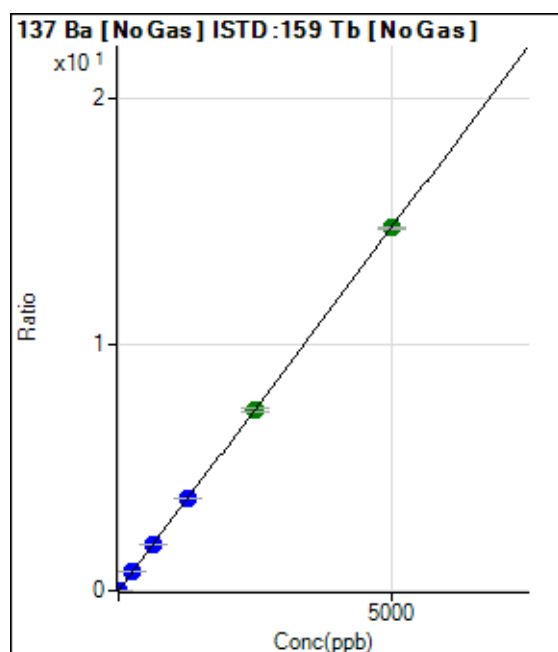
$$R = 1.0000$$

$$DL = 0.1053$$

$$BEC = 0.02834$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0001	P	77.4
2	☐	0.100	0.969	836.16	0.0029	P	4.9
3	☐	10.000	9.577	8127.66	0.0283	P	4.2
4	☐	250.000	254.138	220136.68	0.7486	P	1.9
5	☐	625.000	634.496	550614.09	1.8688	P	0.6
6	☐	1250.000	1268.300	1099051.25	3.7356	P	1.2
7	☐	2500.000	2493.203	2220119.95	7.3432	A	2.0
8	☐	5000.000	4997.431	4470009.56	14.7188	A	0.5
9	☐			7819.13	0.0257	P	7.1

$$y = 0.0029 * x + 7.7695E-005$$

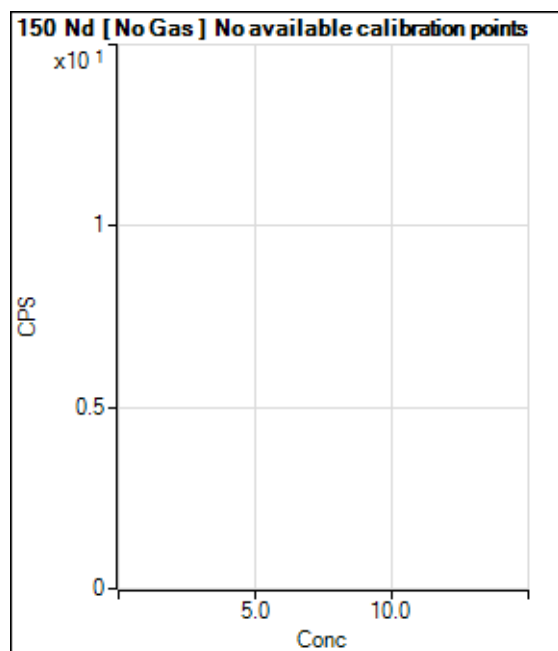
$$R = 1.0000$$

$$DL = 0.06126$$

$$BEC = 0.02638$$

Weight: <None>

Min Conc: 0



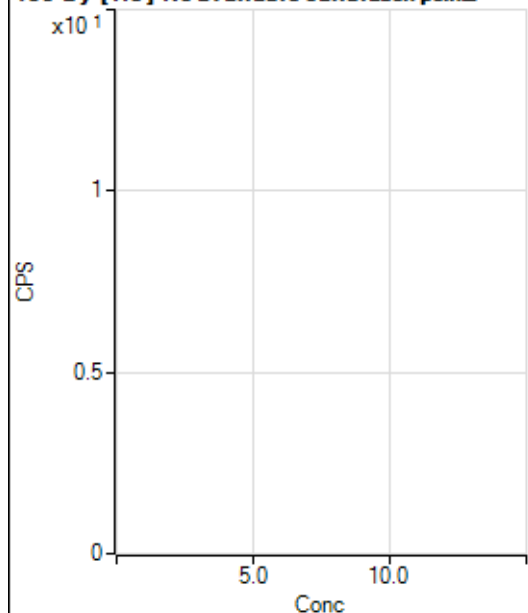
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	86.6
2	☐			8.89		P	43.3
3	☐			4.44		P	173.
4	☐			8.89		P	114.
5	☐			24.44		P	31.5
6	☐			20.00		P	100.
7	☐			53.33		P	21.7
8	☐			77.78		P	26.2
9	☐			22.22		P	45.8

150 Nd [He] No available calibration points

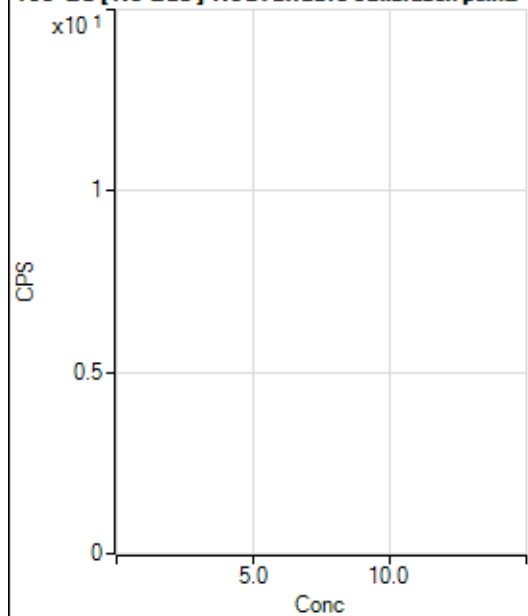
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.
2	☐			0.00		P	
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			1.11		P	173.
6	☐			3.33		P	0.0
7	☐			4.44		P	114.
8	☐			7.78		P	107.
9	☐			1.11		P	173.

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			13.89		P	91.6
2	☐			8.33		P	100.
3	☐			2.78		P	173.
4	☐			8.33		P	100.
5	☐			22.22		P	78.1
6	☐			25.00		P	57.7
7	☐			44.44		P	28.6
8	☐			44.44		P	43.3
9	☐			102.78		P	20.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			0.00		P	
3	☐			1.11		P	173.
4	☐			0.00		P	
5	☐			3.33		P	100.
6	☐			5.56		P	34.7
7	☐			18.89		P	27.0
8	☐			18.89		P	44.4
9	☐			70.00		P	37.8

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.45		P	24.7
2	☐			5.55		P	86.6
3	☐			5.55		P	86.6
4	☐			19.45		P	24.7
5	☐			13.89		P	34.7
6	☐			27.78		P	34.6
7	☐			47.22		P	88.8
8	☐			50.00		P	16.7
9	☐			144.45		P	40.9

160 Gd [He] No available calibration points

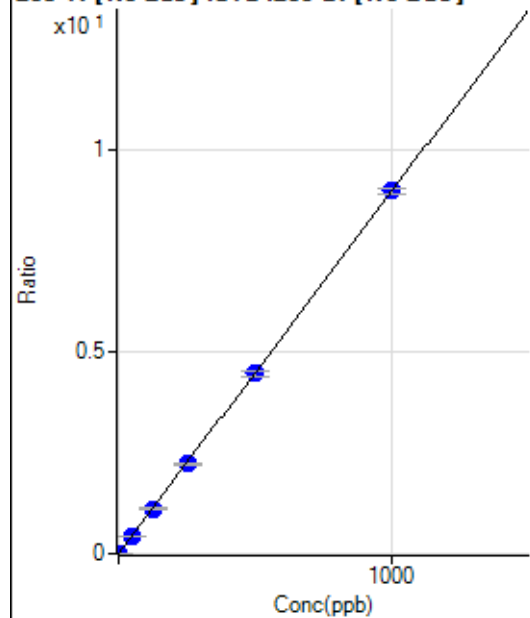
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			1.11		P	173.
2	☐			1.11		P	173.
3	☐			1.11		P	173.
4	☐			3.33		P	100.
5	☐			7.78		P	24.7
6	☐			8.89		P	43.3
7	☐			8.89		P	21.6
8	☐			26.67		P	37.5
9	☐			93.33		P	7.1

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			11.11		P	43.3
3	☐			27.78		P	34.6
4	☐			5.55		P	86.6
5	☐			11.11		P	43.3
6	☐			11.11		P	43.3
7	☐			22.22		P	108.
8	☐			11.11		P	114.
9	☐			19.44		P	65.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2.22		P	86.6
2	☐			1.11		P	173.
3	☐			2.22		P	86.6
4	☐			0.00		P	
5	☐			2.22		P	86.6
6	☐			1.11		P	173.
7	☐			3.33		P	100.
8	☐			4.44		P	43.4
9	☐			15.56		P	49.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	22.22	0.0002	P	21.7
2	☐	0.100	0.133	186.12	0.0014	P	7.8
3	☐	1.000	0.957	1208.42	0.0087	P	6.5
4	☐	50.000	49.960	63321.44	0.4483	P	0.3
5	☐	125.000	124.722	158215.06	1.1190	P	1.3
6	☐	250.000	247.486	315973.71	2.2202	P	2.0
7	☐	500.000	497.862	640696.68	4.4662	P	3.3
8	☐	1000.000	1001.734	1299855.56	8.9861	P	1.7
9	☐			1002.85	0.0071	P	17.5

$$y = 0.0090 * x + 1.6021E-004$$

$$R = 1.0000$$

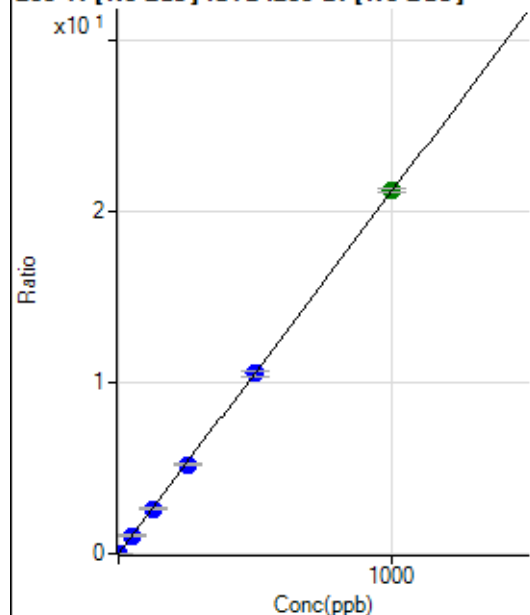
$$DL = 0.0116$$

$$BEC = 0.01786$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	33.34	0.0002	P	42.6
2	☐	0.100	0.097	313.90	0.0023	P	36.2
3	☐	1.000	0.901	2669.80	0.0193	P	3.2
4	☐	50.000	50.068	149498.96	1.0586	P	1.9
5	☐	125.000	124.732	372878.42	2.6370	P	0.6
6	☐	250.000	246.955	743058.70	5.2206	P	1.6
7	☐	500.000	496.795	1506725.50	10.5020	P	2.5
8	☐	1000.000	1002.394	3065380.54	21.1898	A	1.0
9	☐			2169.69	0.0153	P	4.4

$$y = 0.0211 * x + 2.3957E-004$$

$$R = 1.0000$$

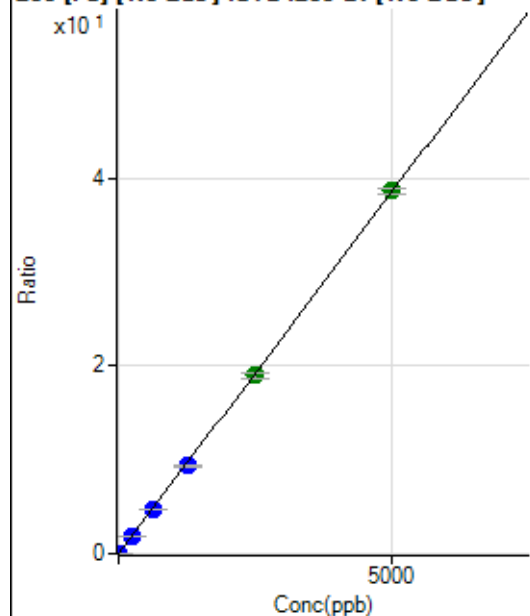
$$DL = 0.01449$$

$$BEC = 0.01133$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	274.08	0.0020	P	7.8
2	☐	0.100	0.110	387.05	0.0028	P	8.4
3	☐	1.000	0.874	1203.78	0.0087	P	2.8
4	☐	250.000	246.944	268475.19	1.9011	P	1.7
5	☐	625.000	611.563	665307.49	4.7051	P	0.5
6	☐	1250.000	1219.039	1334524.35	9.3768	P	1.6
7	☐	2500.000	2473.435	2729119.25	19.0236	A	3.0
8	☐	5000.000	5022.855	5587832.53	38.6296	A	1.9
9	☐			1222.30	0.0086	P	4.9

$$y = 0.0077 * x + 0.0020$$

$$R = 1.0000$$

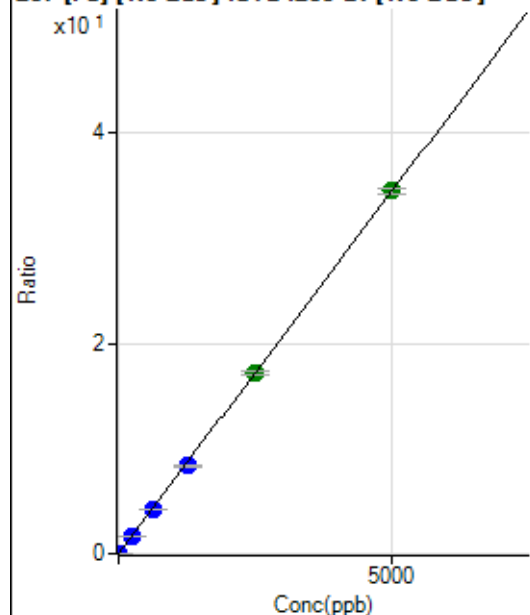
$$DL = 0.0603$$

$$BEC = 0.2567$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	287.05	0.0021	P	7.3
2	☐	0.100	0.017	300.01	0.0022	P	10.3
3	☐	1.000	0.825	1070.44	0.0078	P	12.1
4	☐	250.000	244.675	238221.74	1.6869	P	2.4
5	☐	625.000	611.236	595437.52	4.2111	P	0.8
6	☐	1250.000	1210.554	1186667.66	8.3380	P	1.7
7	☐	2500.000	2496.481	2466598.52	17.1930	A	2.9
8	☐	5000.000	5013.608	4994475.05	34.5260	A	1.2
9	☐			1194.52	0.0084	P	4.1

$$y = 0.0069 * x + 0.0021$$

$$R = 1.0000$$

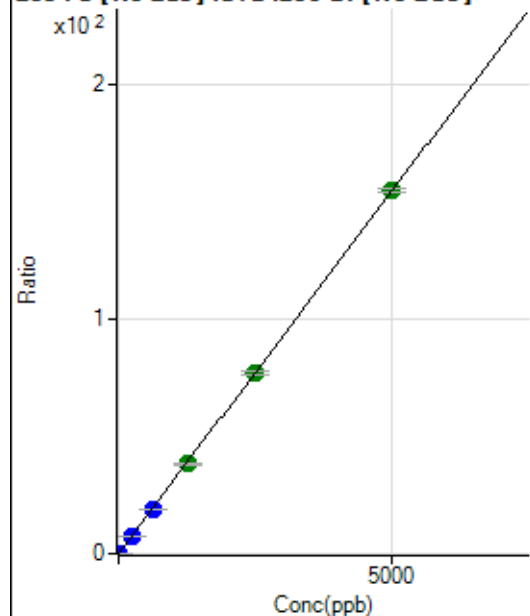
$$DL = 0.06602$$

$$BEC = 0.3005$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1118.56	0.0081	P	4.9
2	☐	0.100	0.084	1463.02	0.0107	P	5.2
3	☐	1.000	0.860	4789.32	0.0346	P	3.7
4	☐	250.000	246.789	1077202.68	7.6277	P	1.8
5	☐	625.000	611.899	2672528.73	18.9006	P	0.8
6	☐	1250.000	1236.941	5436481.69	38.1988	A	1.7
7	☐	2500.000	2490.750	11034269.11	76.9104	A	2.7
8	☐	5000.000	5009.688	22376154.95	154.6831	A	1.1
9	☐			5119.01	0.0360	P	1.7

$$y = 0.0309 * x + 0.0081$$

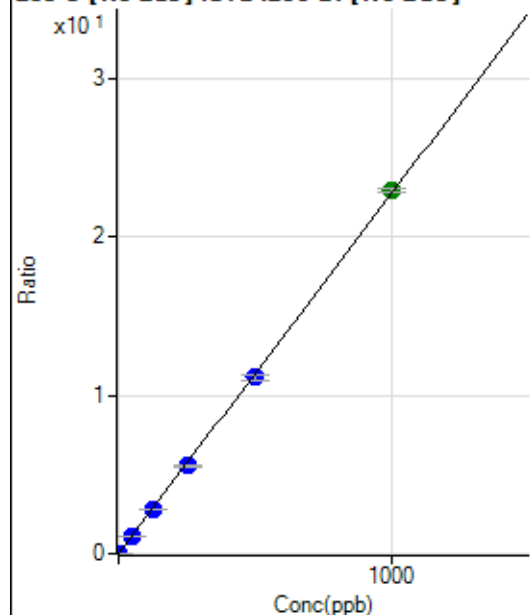
$$R = 1.0000$$

$$DL = 0.0385$$

$$BEC = 0.2613$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	16.67	0.0001	P	50.3
2	☐	0.100	0.094	308.35	0.0022	P	19.9
3	☐	1.000	0.940	2972.66	0.0215	P	6.7
4	☐	50.000	48.646	156114.57	1.1055	P	2.3
5	☐	125.000	121.123	389189.97	2.7524	P	1.0
6	☐	250.000	243.197	786560.93	5.5263	P	1.2
7	☐	500.000	489.906	1596999.07	11.1323	P	3.2
8	☐	1000.000	1007.300	3311160.58	22.8892	A	1.1
9	☐			283.35	0.0020	P	5.7

$$y = 0.0227 * x + 1.2043E-004$$

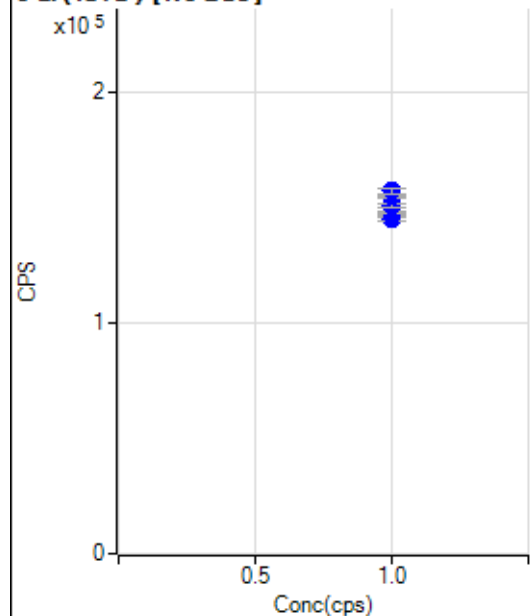
$$R = 0.9999$$

$$DL = 0.007994$$

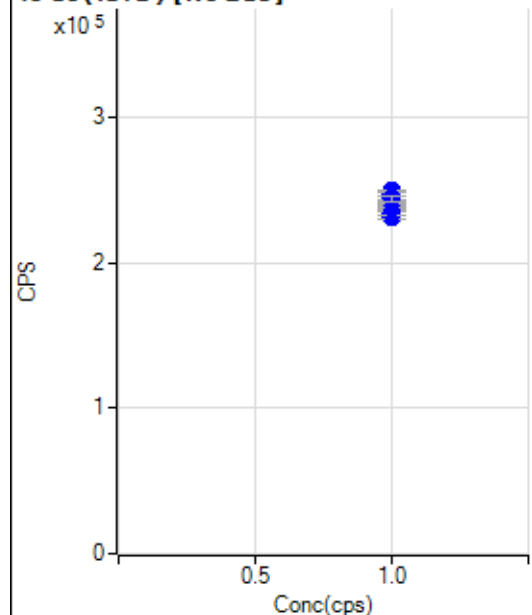
$$BEC = 0.0053$$

Weight: <None>

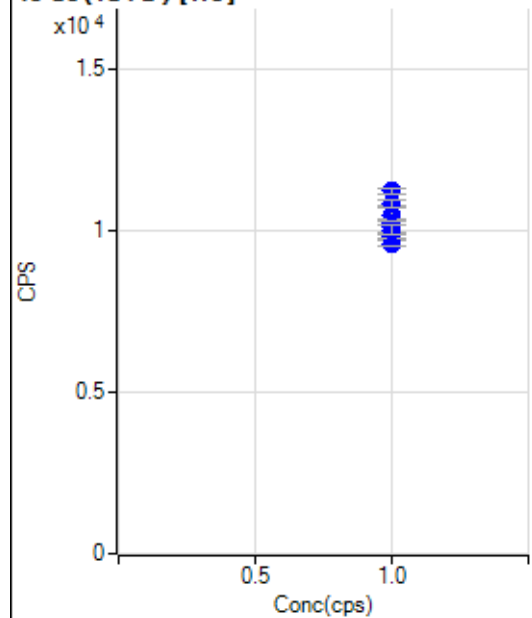
Min Conc: 0

6 Li (ISTD) [No Gas]

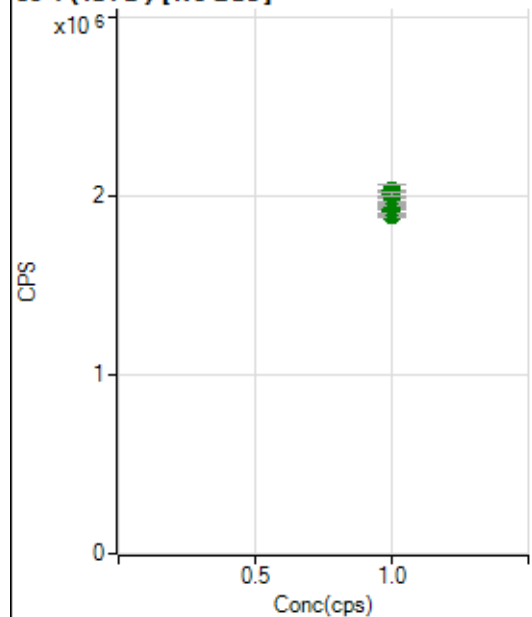
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		145977.57		P	0.7
2	☐	1.000		145017.39		P	1.3
3	☐	1.000		147299.59		P	0.7
4	☐	1.000		147116.41		P	0.6
5	☐	1.000		147495.87		P	0.6
6	☐	1.000		147950.90		P	0.3
7	☐	1.000		151105.59		P	1.3
8	☐	1.000		154667.40		P	0.1
9	☐	1.000		157283.71		P	1.4

45 Sc (ISTD) [No Gas]

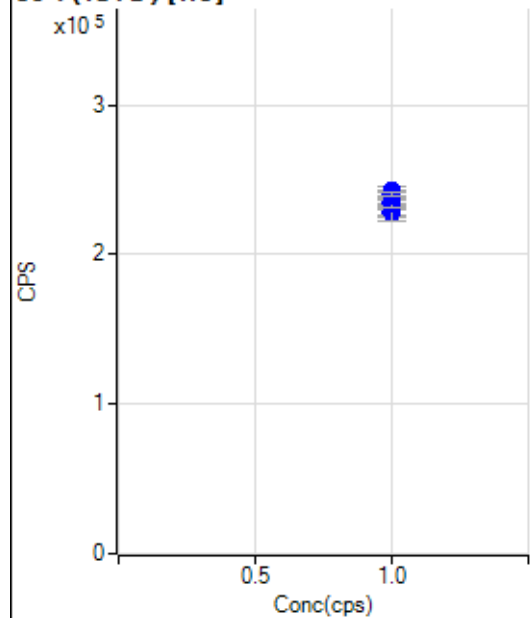
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		232113.43		P	2.1
2	☐	1.000		231536.23		P	0.9
3	☐	1.000		234523.03		P	1.2
4	☐	1.000		239403.00		P	0.9
5	☐	1.000		238463.79		P	0.7
6	☐	1.000		241335.31		P	1.0
7	☐	1.000		247230.15		P	1.0
8	☐	1.000		249277.12		P	0.4
9	☐	1.000		243940.08		P	1.7

45 Sc (ISTD) [He]

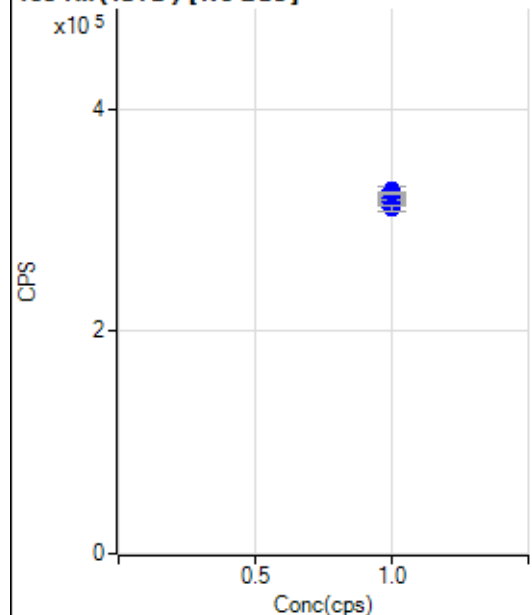
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		9817.86		P	2.2
2	☐	1.000		9596.63		P	2.4
3	☐	1.000		9820.12		P	2.1
4	☐	1.000		10445.00		P	6.0
5	☐	1.000		10248.17		P	1.8
6	☐	1.000		10081.41		P	4.2
7	☐	1.000		10809.69		P	1.9
8	☐	1.000		11211.15		P	1.4
9	☐	1.000		10005.80		P	3.4

89 Y (ISTD) [No Gas]

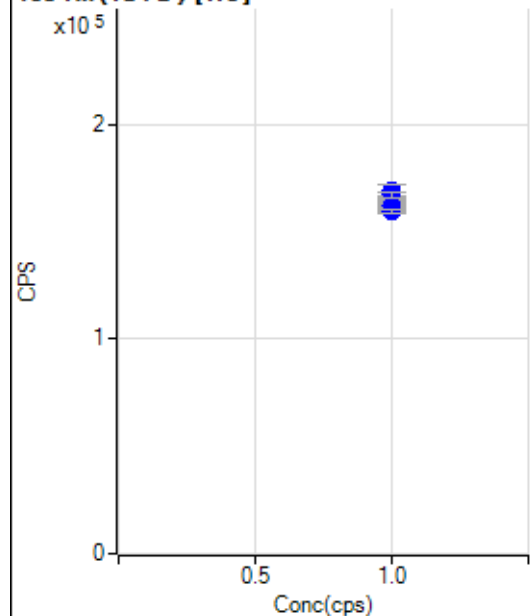
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1911442.21		A	2.2
2	☐	1.000		1892577.68		A	0.5
3	☐	1.000		1923728.90		A	1.7
4	☐	1.000		1944199.49		A	0.9
5	☐	1.000		1951600.20		A	0.7
6	☐	1.000		1988870.67		A	1.7
7	☐	1.000		2010177.92		A	2.3
8	☐	1.000		2031345.06		A	3.1
9	☐	1.000		2014274.17		A	1.0

89 Y (ISTD) [He]

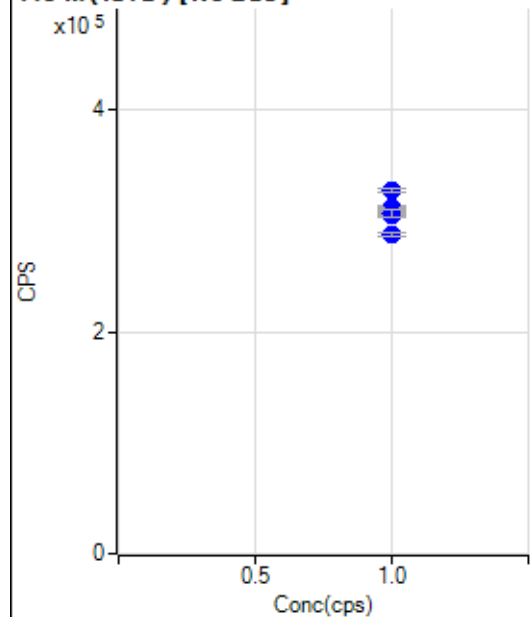
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		228006.32		P	1.7
2	☐	1.000		228571.30		P	3.2
3	☐	1.000		228255.71		P	4.7
4	☐	1.000		241003.99		P	3.4
5	☐	1.000		235762.32		P	1.3
6	☐	1.000		233666.70		P	2.1
7	☐	1.000		238632.65		P	0.7
8	☐	1.000		242498.65		P	0.2
9	☐	1.000		240287.99		P	0.8

103 Rh (ISTD) [No Gas]

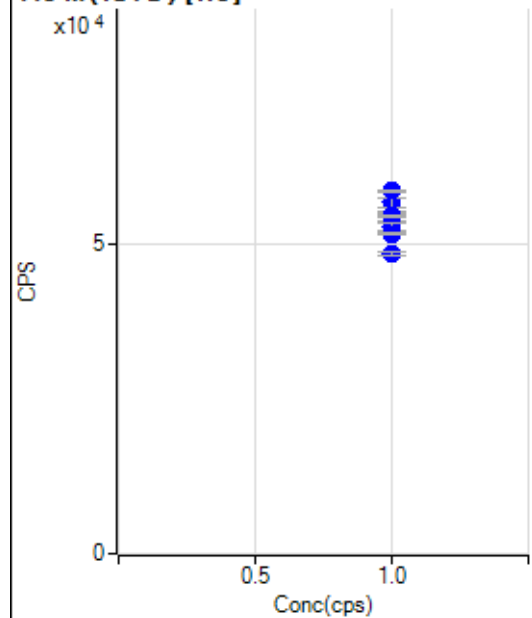
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		318839.31		P	0.9
2	☐	1.000		316047.08		P	1.1
3	☐	1.000		316258.35		P	1.9
4	☐	1.000		320451.50		P	1.0
5	☐	1.000		321186.42		P	1.1
6	☐	1.000		320348.72		P	0.7
7	☐	1.000		326641.91		P	2.0
8	☐	1.000		325008.54		P	0.7
9	☐	1.000		311143.05		P	1.7

103 Rh (ISTD) [He]

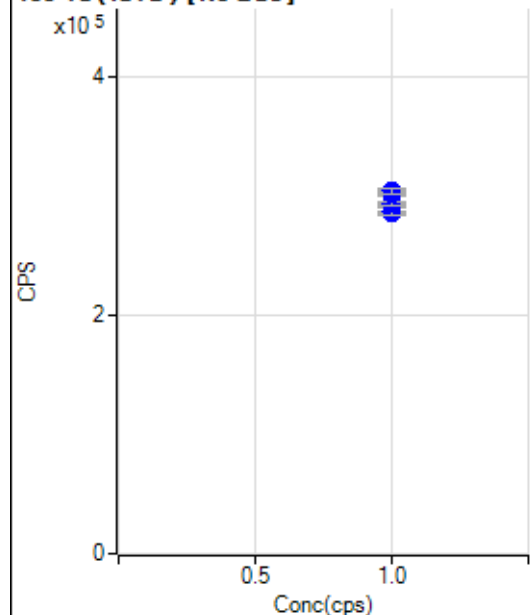
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		161829.93		P	0.7
2	☐	1.000		160934.66		P	2.7
3	☐	1.000		161884.99		P	2.5
4	☐	1.000		169161.27		P	3.8
5	☐	1.000		165011.14		P	0.9
6	☐	1.000		162616.57		P	1.6
7	☐	1.000		165776.43		P	0.8
8	☐	1.000		167587.12		P	1.5
9	☐	1.000		159754.55		P	1.3

115 In (ISTD) [No Gas]

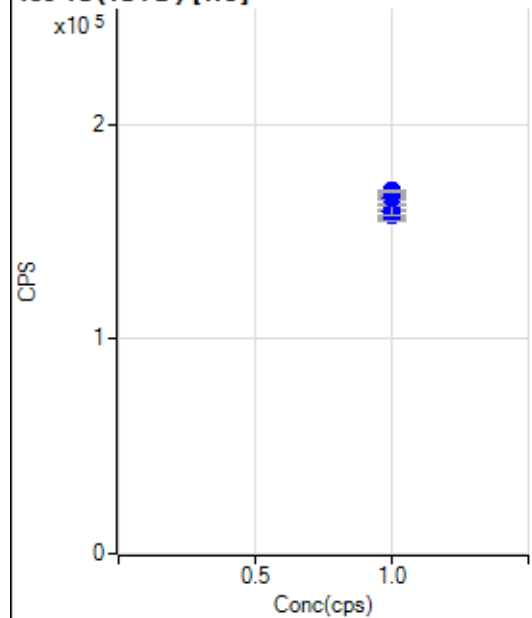
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		308085.28		P	1.1
2	☐	1.000		305490.89		P	0.9
3	☐	1.000		308697.35		P	2.0
4	☐	1.000		311957.00		P	0.6
5	☐	1.000		311128.34		P	0.7
6	☐	1.000		306212.93		P	0.9
7	☐	1.000		306533.64		P	2.6
8	☐	1.000		287547.81		P	1.1
9	☐	1.000		326780.93		P	1.0

115 In (ISTD) [He]

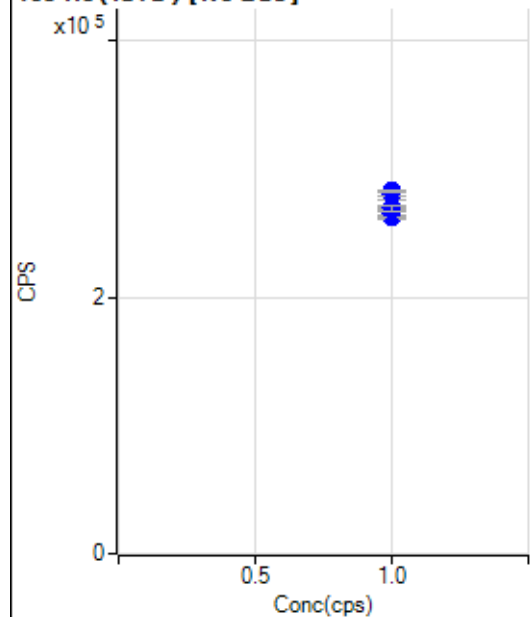
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		54553.08		P	0.3
2	☐	1.000		54184.46		P	2.3
3	☐	1.000		54222.77		P	3.7
4	☐	1.000		56609.22		P	3.0
5	☐	1.000		54449.83		P	1.0
6	☐	1.000		52828.39		P	2.2
7	☐	1.000		51522.61		P	0.5
8	☐	1.000		48327.09		P	1.0
9	☐	1.000		58518.35		P	0.6

159 Tb (ISTD) [No Gas]

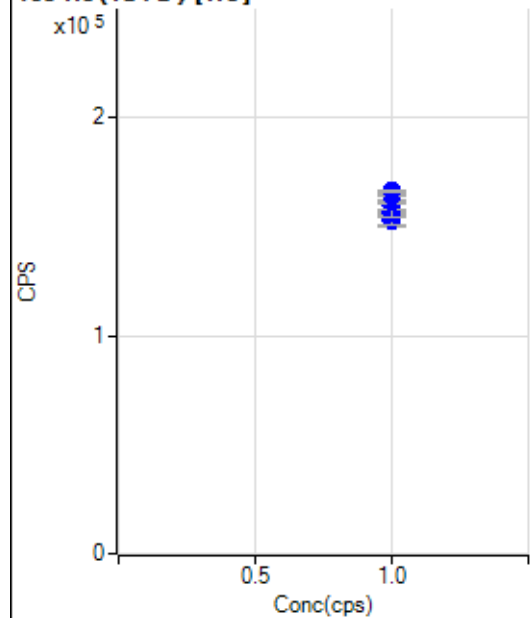
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		285791.50		P	1.6
2	☐	1.000		285103.76		P	1.0
3	☐	1.000		287492.07		P	1.8
4	☐	1.000		294096.56		P	0.7
5	☐	1.000		294626.44		P	0.5
6	☐	1.000		294235.98		P	1.0
7	☐	1.000		302406.20		P	1.7
8	☐	1.000		303695.48		P	0.2
9	☐	1.000		304592.20		P	1.4

159 Tb (ISTD) [He]

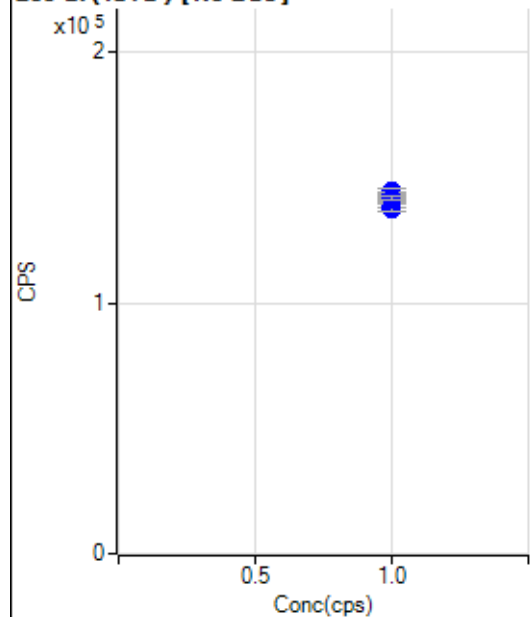
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		157290.52		P	0.8
2	☐	1.000		157813.81		P	2.6
3	☐	1.000		157432.68		P	3.2
4	☐	1.000		162932.29		P	3.8
5	☐	1.000		161914.22		P	1.4
6	☐	1.000		159879.24		P	2.9
7	☐	1.000		165706.04		P	1.3
8	☐	1.000		167847.31		P	0.4
9	☐	1.000		169089.07		P	0.7

165 Ho (ISTD) [No Gas]

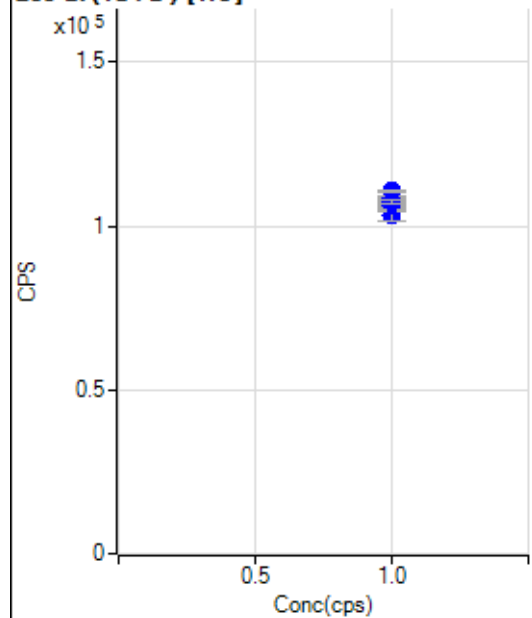
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		264331.40		P	2.1
2	☐	1.000		262309.15		P	1.2
3	☐	1.000		265034.31		P	2.2
4	☐	1.000		269446.29		P	1.9
5	☐	1.000		268959.66		P	0.9
6	☐	1.000		269258.98		P	1.3
7	☐	1.000		279487.97		P	2.9
8	☐	1.000		280397.06		P	1.4
9	☐	1.000		282906.77		P	0.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		154946.90		P	0.9
2	☐	1.000		152364.48		P	3.0
3	☐	1.000		153702.78		P	4.0
4	☐	1.000		159798.92		P	3.5
5	☐	1.000		157215.09		P	0.8
6	☐	1.000		156335.91		P	2.2
7	☐	1.000		161336.75		P	0.7
8	☐	1.000		164497.88		P	0.8
9	☐	1.000		166474.07		P	0.8

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		138723.43		P	1.3
2	☐	1.000		137393.50		P	1.0
3	☐	1.000		138345.94		P	2.4
4	☐	1.000		141243.37		P	1.4
5	☐	1.000		141403.84		P	0.8
6	☐	1.000		142346.58		P	1.6
7	☐	1.000		143531.39		P	2.5
8	☐	1.000		144668.22		P	1.0
9	☐	1.000		142106.46		P	1.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		105381.84		P	0.8
2	☐	1.000		103064.79		P	3.0
3	☐	1.000		103353.06		P	3.6
4	☐	1.000		108506.08		P	4.2
5	☐	1.000		105880.36		P	2.5
6	☐	1.000		106555.33		P	3.2
7	☐	1.000		108244.00		P	1.1
8	☐	1.000		110668.37		P	0.5
9	☐	1.000		107363.41		P	0.9

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091820MS.b
Acq. Date-Time 2020-09-18 12:01:53
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		2251	22509.32			0.768	5.000
24		38903	389032.23			0.990	5.000
25		5098	50984.12			0.685	5.000
26		5961	59607.44			0.583	5.000
59		15442	154423.27			0.763	5.000
113		1980	19801.49			0.920	5.000
115		5692	56921.27			0.886	5.000
206		1641	16412.11			1.774	5.000
207		1365	13652.75			1.647	5.000
208		3370	33704.19			1.305	5.000
220		1	11.70			12.677	

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

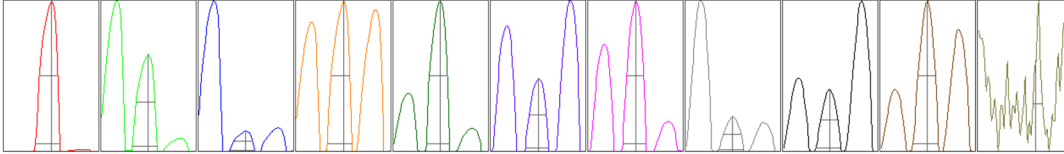
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2273	2243	2232	2264	2242
24	38904	38270	38960	39299	39083
25	5073	5055	5111	5144	5109
26	5987	5912	5980	5990	5935
59	15444	15295	15363	15588	15521
113	1966	1972	1967	1986	2009
115	5659	5653	5724	5659	5766
206	1620	1627	1633	1633	1692
207	1347	1359	1362	1355	1404
208	3306	3379	3363	3374	3429

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	4141.11	9.05	8.90 - 9.10	
24	69584.35	24.00	23.90 - 24.10	
25	9174.74	25.00	24.90 - 25.10	
26	10676.89	26.05	25.90 - 26.10	
59	28945.09	59.00	58.90 - 59.10	
113	3853.85	113.05	112.90 - 113.10	
115	11216.75	115.05	114.90 - 115.10	
206	3137.65	206.00	205.90 - 206.10	
207	2613.94	207.00	206.90 - 207.10	
208	6406.80	208.00	207.90 - 208.10	
220	1.40	220.35	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.57	0.772	0.900	
24	0.60	0.782	0.900	
25	0.59	0.785	0.900	
26	0.59	0.783	0.900	
59	0.56	0.736	0.900	
113	0.53	0.731	0.900	
115	0.52	0.735	0.900	
206	0.54	0.787	0.900	
207	0.54	0.789	0.900	
208	0.55	0.810	0.900	
220	0.31			

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 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	8.5 V	Deflect	14.6 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	160 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9993	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.01		

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.4 mm
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EM

Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		3715	37154.31			1.245	
89		2146	21461.70			1.776	
205		5873	58729.29			1.356	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	3735	3782	3701	3702	3657
89	2160	2202	2127	2142	2100
205	5886	6000	5848	5845	5786

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 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	8.5 V	Deflect	5.6 V
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Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	122	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V