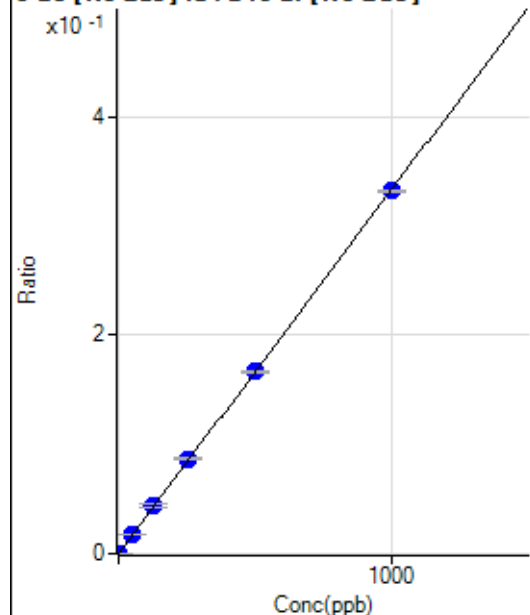


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8030121MS.b\
Analysis File: P8030121MS.batch.bin
DA Date-Time: 2021-03-01 17:35:27
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2021-03-01 11:54:08
2	007CALS.d	S02	2021-03-01 12:00:27
3	008CALS.d	S03	2021-03-01 12:03:38
4	009CALS.d	S04	2021-03-01 12:06:45
5	010CALS.d	S05	2021-03-01 12:09:52
6	011CALS.d	S06	2021-03-01 12:12:51
7	012CALS.d	S07	2021-03-01 12:15:51
8	014CALS.d	S08	2021-03-01 12:21:51

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	24.00	0.0000	P	26.5
2	☐	1.000	1.071	832.53	0.0004	P	5.7
3	☐	50.000	50.607	39530.86	0.0169	P	1.6
4	☐	125.000	131.235	101249.20	0.0437	P	5.9
5	☐	250.000	260.518	204598.01	0.0868	P	2.5
6	☐	500.000	499.662	403704.64	0.1665	P	1.7
7	☐	1000.000	996.730	807665.92	0.3321	P	0.6
8	☐			115.31	0.0000	P	15.0

$$y = 3.3314\text{E-}004 * x + 1.0096\text{E-}005$$

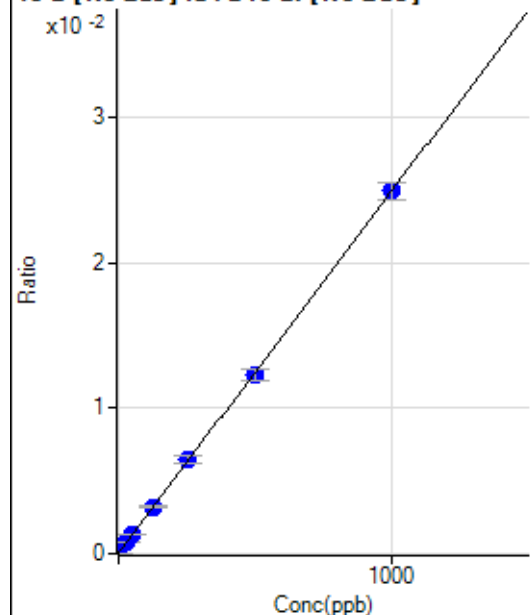
$$R = 0.9999$$

$$DL = 0.02414$$

$$BEC = 0.03031$$

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	108.65	0.0000	P	21.5
2	☐	25.000	28.292	1701.77	0.0007	P	5.4
3	☐	50.000	52.391	3159.06	0.0013	P	3.2
4	☐	125.000	128.345	7490.45	0.0032	P	7.8
5	☐	250.000	256.935	15144.83	0.0064	P	8.5
6	☐	500.000	492.409	29760.14	0.0123	P	6.8
7	☐	1000.000	1001.442	60628.66	0.0249	P	4.9
8	☐			3628.41	0.0015	P	5.8

$$y = 2.4840\text{E-}005 * x + 4.5785\text{E-}005$$

$$R = 0.9999$$

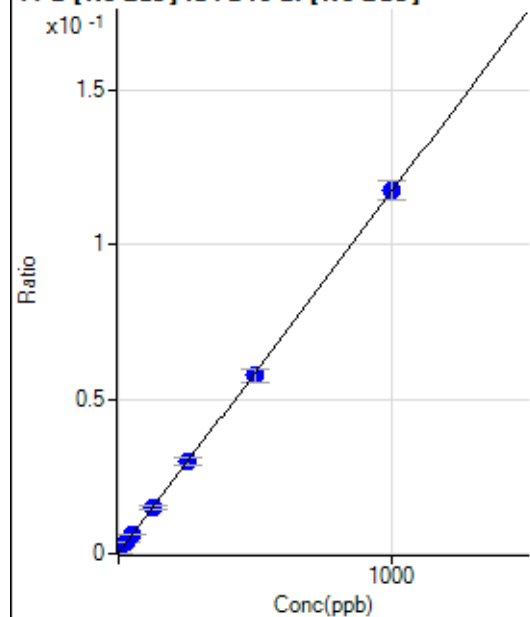
$$DL = 1.189$$

$$BEC = 1.843$$

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	455.25	0.0002	P	3.6
2	☐	25.000	28.416	7989.28	0.0035	P	0.8
3	☐	50.000	50.924	14411.54	0.0061	P	2.9
4	☐	125.000	127.689	35031.31	0.0151	P	8.3
5	☐	250.000	255.516	70868.92	0.0301	P	7.7
6	☐	500.000	492.013	139957.77	0.0577	P	7.1
7	☐	1000.000	1002.147	285626.76	0.1174	P	5.3
8	☐			16823.60	0.0069	P	3.6

$$y = 1.1697E-004 * x + 1.9125E-004$$

R = 0.9999

DL = 0.178

BEC = 1.635

Weight: <None>

Min Conc: 0

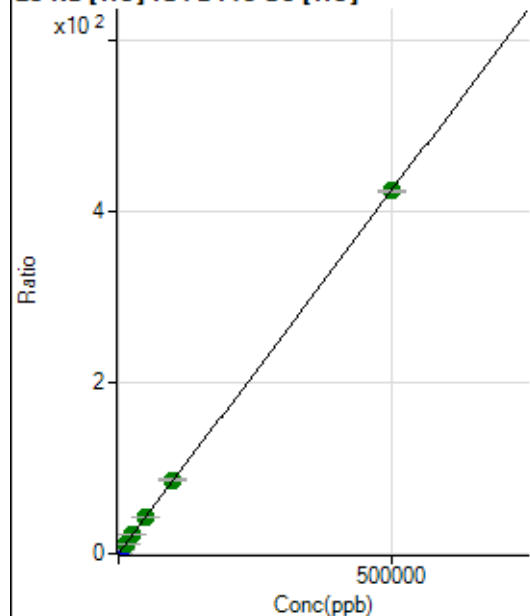
12 C [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐						
2	☐						
3	☐						
4	☐						
5	☐						
6	☐						
7	☐						
8	☐						

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25347.55	0.1857	P	5.2
2	☐	500.000	546.873	87425.64	0.6498	P	3.0
3	☐	5000.000	5242.111	623363.54	4.6344	P	1.4
4	☐	12500.000	12701.616	1529743.59	10.9649	A	0.5
5	☐	25000.000	25896.869	3041920.83	22.1631	A	0.3
6	☐	50000.000	50137.207	5820223.91	42.7346	A	2.5
7	☐	100000.00	101176.65	11680335.59	86.0493	A	1.3
8	☐	500000.00	499698.59	57467245.03	424.2549	A	0.9

$$y = 8.4865E-004 * x + 0.1857$$

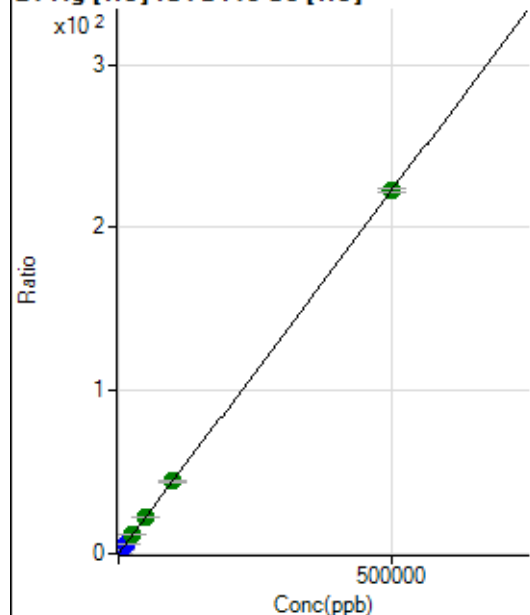
$$R = 1.0000$$

$$DL = 34.14$$

$$BEC = 218.8$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	350.01	0.0026	P	9.8
2	☐	500.000	540.782	32729.17	0.2433	P	4.3
3	☐	5000.000	5257.745	315173.17	2.3429	P	1.0
4	☐	12500.000	12910.150	802043.22	5.7490	P	1.1
5	☐	25000.000	26107.549	1595303.14	11.6233	A	0.7
6	☐	50000.000	50576.774	3066476.09	22.5149	A	2.1
7	☐	100000.00	100197.00	6054275.48	44.6014	A	1.8
8	☐	500000.00	499834.67	30135956.58	222.4849	A	1.1

$$y = 4.4511\text{E-}004 * x + 0.0026$$

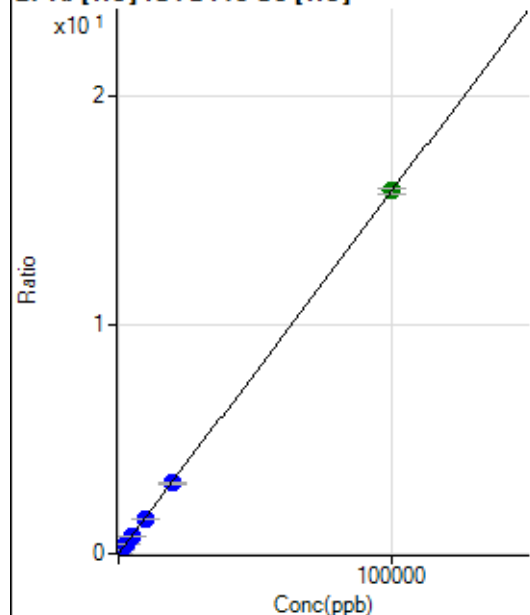
$$R = 1.0000$$

$$DL = 1.691$$

$$BEC = 5.771$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	338.71	0.0025	P	7.0
2	☐	20.000	22.781	819.09	0.0061	P	5.8
3	☐	1000.000	983.453	21269.49	0.1581	P	1.7
4	☐	2500.000	2409.074	53542.62	0.3838	P	1.2
5	☐	5000.000	4915.512	107127.78	0.7805	P	0.6
6	☐	10000.000	9686.864	209164.07	1.5357	P	2.2
7	☐	20000.000	19450.127	418222.70	3.0811	P	1.2
8	☐	100000.00	100147.95	2147473.81	15.8542	A	1.9

$$y = 1.5828\text{E-}004 * x + 0.0025$$

$$R = 1.0000$$

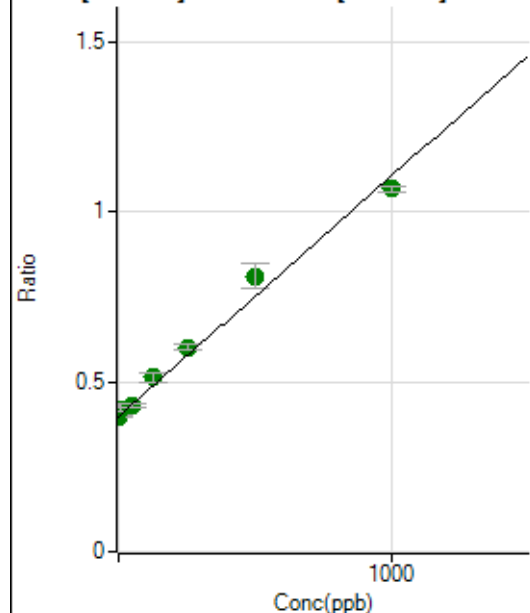
$$DL = 3.303$$

$$BEC = 15.69$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1149761.98	0.3981	A	2.5
2	☐	10.000	29.877	1168684.23	0.4192	A	3.6
3	☐	50.000	44.749	1253184.85	0.4298	A	2.4
4	☐	125.000	160.864	1433666.61	0.5119	A	5.6
5	☐	250.000	284.647	1766933.72	0.5994	A	2.9
6	☐	500.000	583.829	2402620.45	0.8109	A	8.7
7	☐	1000.000	945.004	3208404.78	1.0663	A	1.3
8	☐			1447066.49	0.4871	A	6.8

$$y = 7.0702\text{E-}004 * x + 0.3981$$

$$R = 0.9934$$

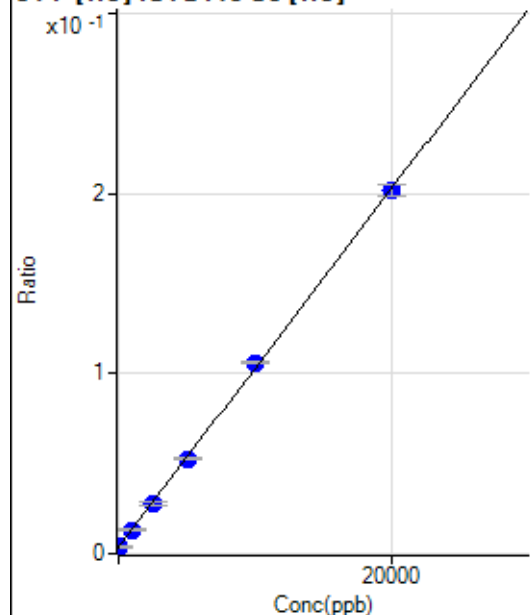
$$DL = 41.7$$

$$BEC = 563.1$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-17.785	466.69	0.0034	P	4.7
2	☐	0.000	17.785	505.58	0.0038	P	18.1
3	☐	1000.000	958.329	1764.04	0.0131	P	10.7
4	☐	2500.000	2467.333	3925.64	0.0281	P	8.4
5	☐	5000.000	4929.970	7226.97	0.0527	P	2.8
6	☐	10000.000	10291.125	14440.87	0.1060	P	0.8
7	☐	20000.000	19878.112	27340.17	0.2014	P	3.3
8	☐			505.58	0.0037	P	8.5

$$y = 9.9535\text{E-}006 * x + 0.0036$$

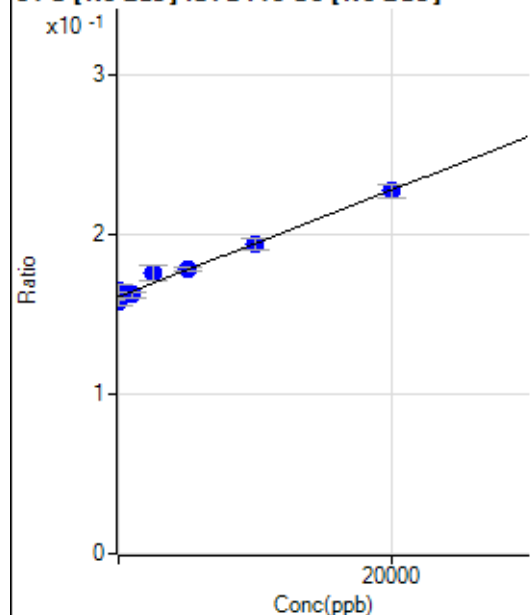
$$R = 0.9998$$

$$DL = 127$$

$$BEC = 359.9$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-1033.789	455410.94	0.1577	P	2.2
2	☐	0.000	1033.789	458754.30	0.1646	P	4.5
3	☐	1000.000	369.590	473564.70	0.1624	P	1.8
4	☐	2500.000	4457.524	493238.50	0.1761	P	5.1
5	☐	5000.000	5234.167	526751.23	0.1787	P	1.4
6	☐	10000.000	9842.786	575793.15	0.1941	P	4.2
7	☐	20000.000	19806.895	683859.77	0.2274	P	3.9
8	☐			432268.79	0.1455	P	1.0

$$y = 3.3460\text{E-}006 * x + 0.1611$$

$$R = 0.9902$$

$$DL = 4860$$

$$BEC = 4.816\text{E}+04$$

Weight: <None>

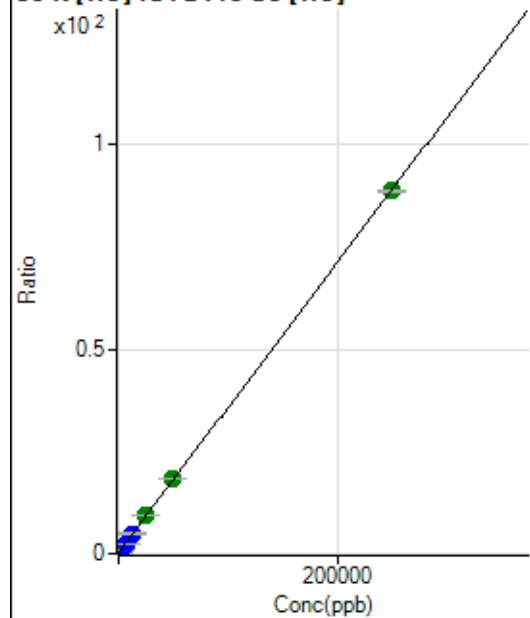
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	31034.03	0.2274	P	6.1
2	☐	500.000	537.041	56215.69	0.4178	P	2.8
3	☐	2500.000	2658.475	157324.92	1.1699	P	1.9
4	☐	6250.000	6464.846	351454.89	2.5192	P	0.7
5	☐	12500.000	13243.936	675584.45	4.9223	P	1.2
6	☐	25000.000	26086.069	1290469.76	9.4748	A	1.9
7	☐	50000.000	50905.145	2480281.80	18.2730	A	1.6
8	☐	250000.00	249666.13	12019910.34	88.7326	A	0.6

$$y = 3.5449\text{E-}004 * x + 0.2274$$

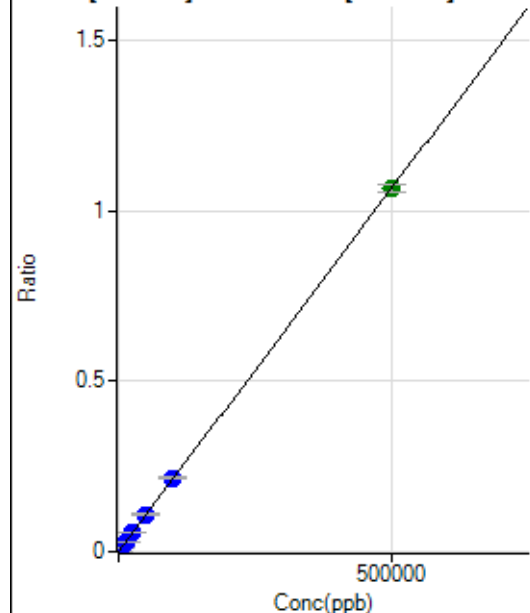
$$R = 1.0000$$

$$DL = 118.3$$

$$BEC = 641.6$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	507.87	0.0002	P	5.4
2	☐	500.000	532.734	3650.02	0.0013	P	4.7
3	☐	5000.000	4988.174	31480.37	0.0108	P	1.7
4	☐	12500.000	13293.649	79727.95	0.0285	P	6.7
5	☐	25000.000	25443.716	160213.89	0.0543	P	1.5
6	☐	50000.000	50982.759	322413.97	0.1087	P	5.3
7	☐	100000.00	101799.48	652400.93	0.2169	P	2.6
8	☐	500000.00	499499.88	3160587.72	1.0635	A	2.0

$$y = 2.1288\text{E-}006 * x + 1.7568\text{E-}004$$

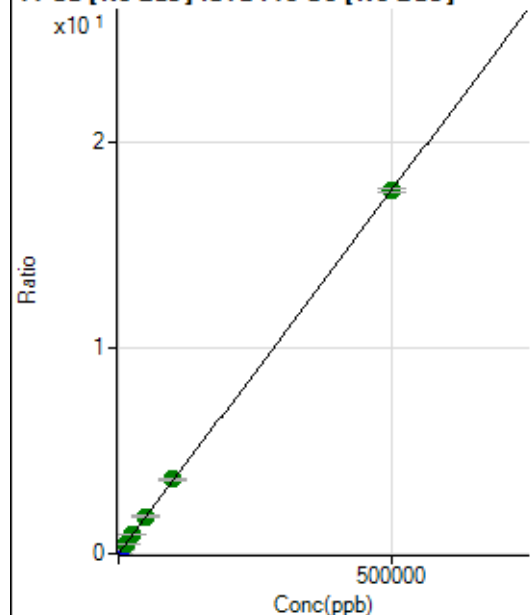
$$R = 1.0000$$

$$DL = 13.31$$

$$BEC = 82.52$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20387.33	0.0071	P	1.7
2	☐	500.000	538.725	72546.98	0.0260	P	4.0
3	☐	5000.000	5075.945	541804.59	0.1858	P	1.7
4	☐	12500.000	13293.208	1331052.84	0.4751	A	5.1
5	☐	25000.000	25615.344	2680165.97	0.9090	A	1.0
6	☐	50000.000	50842.509	5331501.12	1.7973	A	4.5
7	☐	100000.00	102058.85	10831711.05	3.6006	A	2.1
8	☐	500000.00	499452.58	52285684.79	17.5932	A	1.0

$$y = 3.5211\text{E-}005 * x + 0.0071$$

$$R = 1.0000$$

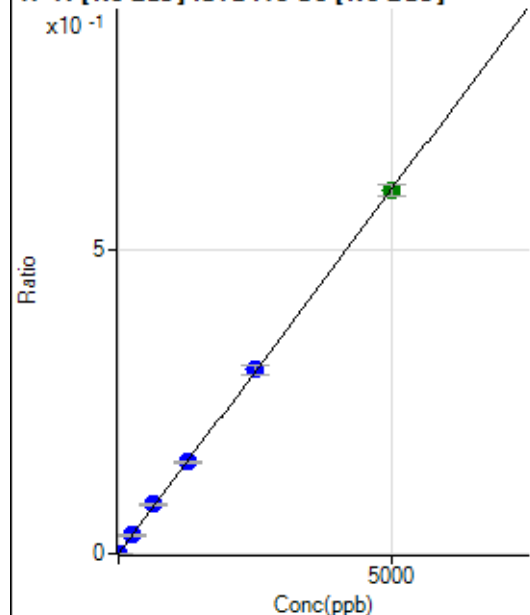
$$DL = 10.09$$

$$BEC = 200.5$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	377.79	0.0001	P	38.4
2	☐	5.000	5.326	2147.45	0.0008	P	6.8
3	☐	250.000	251.901	88610.40	0.0304	P	2.1
4	☐	625.000	672.727	226719.02	0.0809	P	5.3
5	☐	1250.000	1254.836	444715.16	0.1508	P	2.3
6	☐	2500.000	2522.107	898979.29	0.3031	P	4.7
7	☐	5000.000	4981.676	1799957.46	0.5985	A	3.1
8	☐			652.81	0.0002	P	13.0

$$y = 1.2011\text{E-}004 * x + 1.3131\text{E-}004$$

$$R = 0.9999$$

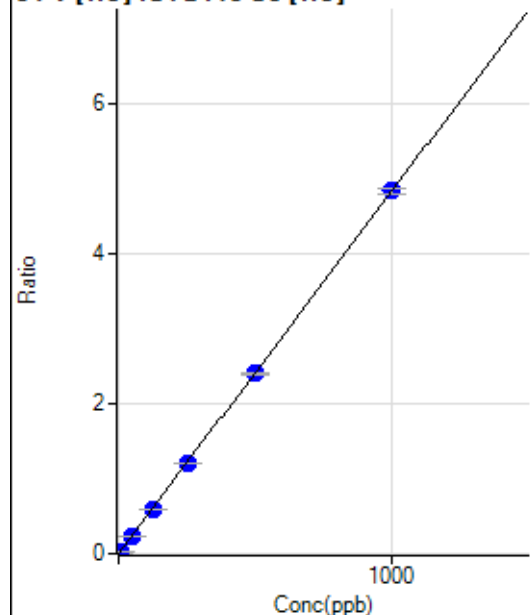
$$DL = 1.26$$

$$BEC = 1.093$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.44	0.0000	P	112.8
2	☐	5.000	5.325	3463.79	0.0257	P	4.7
3	☐	50.000	49.619	32230.78	0.2396	P	1.3
4	☐	125.000	121.797	82056.90	0.5882	P	1.0
5	☐	250.000	249.791	165557.11	1.2062	P	1.2
6	☐	500.000	497.194	327004.69	2.4009	P	1.8
7	☐	1000.000	1001.873	656664.86	4.8379	P	1.7
8	☐			111.11	0.0008	P	9.7

$$y = 0.0048 * x + 3.3260\text{E-}005$$

$$R = 1.0000$$

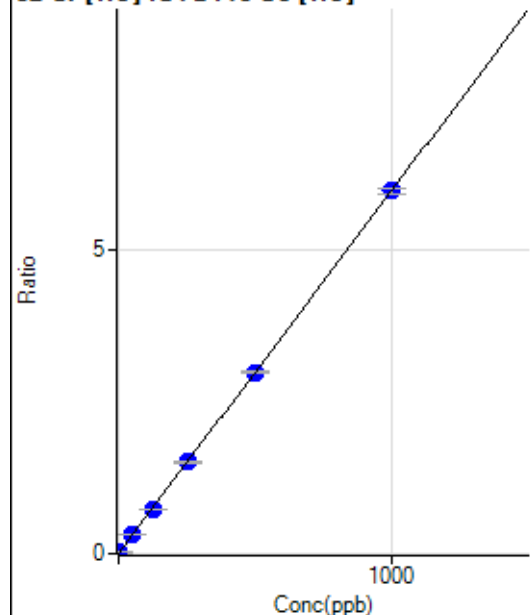
$$DL = 0.02331$$

$$BEC = 0.006888$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	558.91	0.0041	P	3.0
2	☐	2.000	2.215	2322.43	0.0173	P	7.6
3	☐	50.000	50.245	40764.70	0.3031	P	1.9
4	☐	125.000	121.977	101850.56	0.7300	P	0.5
5	☐	250.000	251.810	206261.70	1.5028	P	0.9
6	☐	500.000	499.852	405757.16	2.9790	P	1.2
7	☐	1000.000	999.986	808416.85	5.9557	P	1.3
8	☐			5362.17	0.0396	P	1.5

$$y = 0.0060 * x + 0.0041$$

$$R = 1.0000$$

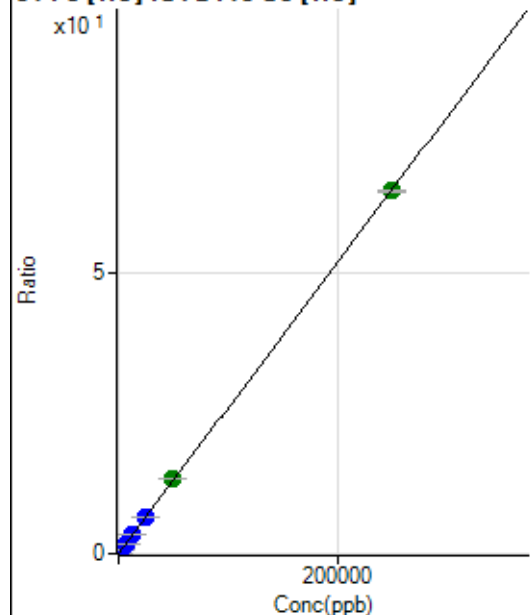
$$DL = 0.06098$$

$$BEC = 0.6856$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	588.91	0.0043	P	11.6
2	☐	50.000	55.172	2503.97	0.0186	P	5.4
3	☐	2500.000	2556.936	89644.14	0.6665	P	1.3
4	☐	6250.000	6240.989	226087.87	1.6205	P	0.5
5	☐	12500.000	12698.553	451925.20	3.2927	P	0.6
6	☐	25000.000	25375.829	895633.17	6.5756	P	1.0
7	☐	50000.000	51490.783	1810584.49	13.3382	A	0.9
8	☐	250000.00	249653.98	8757829.54	64.6540	A	0.5

$$y = 2.5896E-004 * x + 0.0043$$

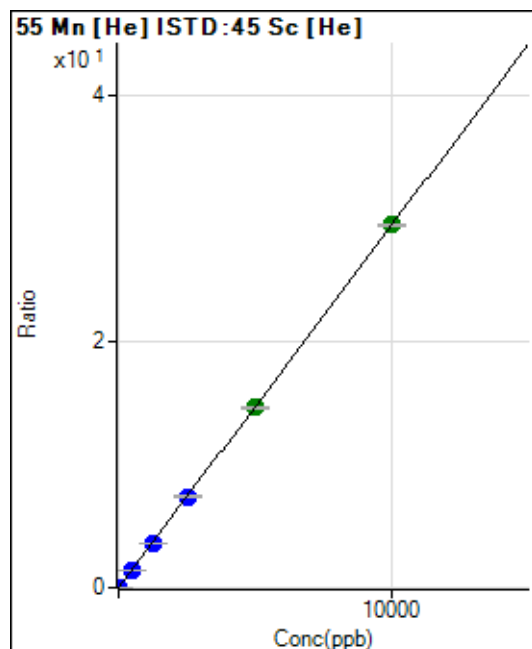
$$R = 1.0000$$

$$DL = 5.814$$

$$BEC = 16.69$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.33	0.0006	P	27.1
2	☐	1.000	1.013	483.35	0.0036	P	4.8
3	☐	500.000	498.528	197540.33	1.4685	P	0.8
4	☐	1250.000	1226.261	503828.38	3.6114	P	0.6
5	☐	2500.000	2520.430	1018688.59	7.4221	P	0.7
6	☐	5000.000	4965.108	1991388.04	14.6205	A	1.4
7	☐	10000.000	10015.379	4003569.04	29.4912	A	0.9
8	☐			2401.34	0.0177	P	0.7

$$y = 0.0029 * x + 6.0799E-004$$

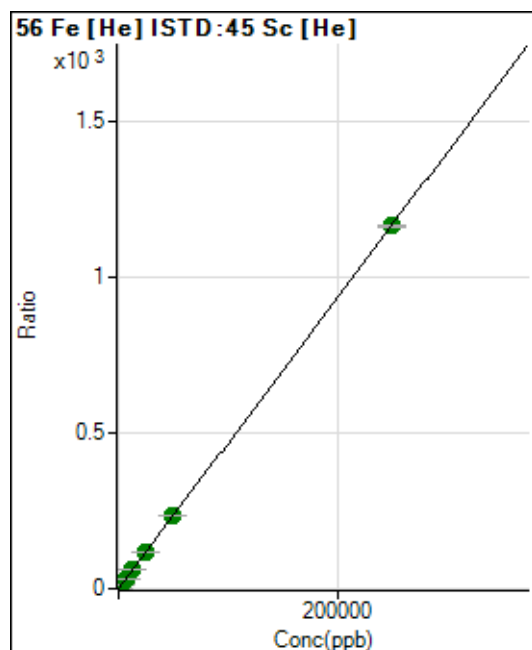
$$R = 1.0000$$

$$DL = 0.1681$$

$$BEC = 0.2065$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	2792.91	0.0204	P	6.2
2	☐	50.000	54.047	36652.81	0.2724	P	1.6
3	☐	2500.000	2544.597	1598363.90	11.8830	A	0.8
4	☐	6250.000	6136.779	3994243.03	28.6292	A	0.1
5	☐	12500.000	12626.793	8082086.35	58.8847	A	0.1
6	☐	25000.000	25051.113	15908888.78	116.8051	A	1.7
7	☐	50000.000	50341.463	31859601.64	234.7050	A	1.1
8	☐	250000.00	249922.64	157823029.4	1,165.123	A	0.8

$$y = 0.0047 * x + 0.0204$$

$$R = 1.0000$$

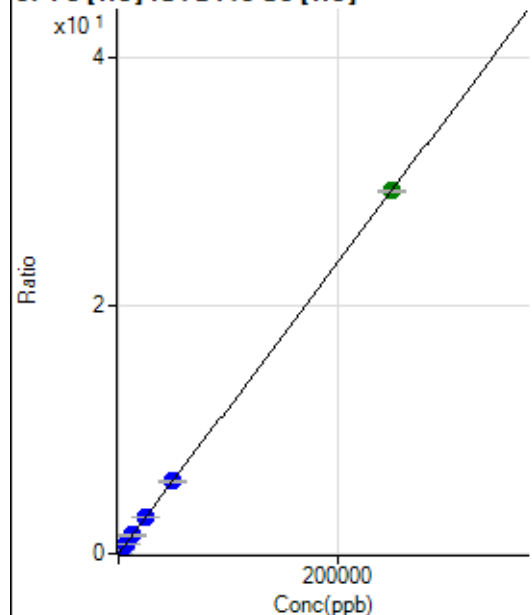
$$DL = 0.8121$$

$$BEC = 4.384$$

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	196.30	0.0014	P	8.0
2	☐	50.000	49.693	974.12	0.0072	P	3.4
3	☐	2500.000	2480.725	39176.28	0.2913	P	1.6
4	☐	6250.000	6095.850	99566.95	0.7137	P	1.2
5	☐	12500.000	12591.516	202129.42	1.4727	P	0.3
6	☐	25000.000	24810.636	395027.64	2.9004	P	2.1
7	☐	50000.000	49981.615	792843.71	5.8415	P	2.2
8	☐	250000.00	250022.08	3957563.63	29.2150	A	0.8

$$y = 1.1684\text{E-}004 * x + 0.0014$$

$$R = 1.0000$$

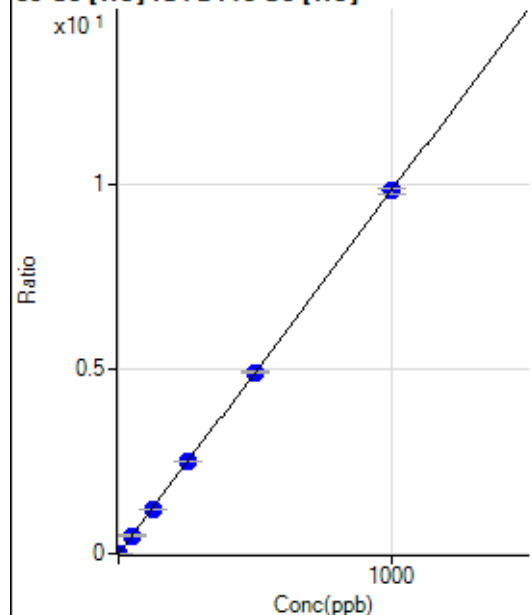
$$DL = 2.957$$

$$BEC = 12.27$$

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	31.11	0.0002	P	9.2
2	☐	1.000	1.045	1410.09	0.0105	P	7.2
3	☐	50.000	50.245	66381.83	0.4934	P	1.5
4	☐	125.000	122.874	168306.91	1.2064	P	0.6
5	☐	250.000	253.153	341101.70	2.4852	P	0.4
6	☐	500.000	500.049	668611.21	4.9088	P	0.9
7	☐	1000.000	999.441	1331704.93	9.8110	P	1.4
8	☐			2044.61	0.0151	P	4.1

$$y = 0.0098 * x + 2.2810\text{E-}004$$

$$R = 1.0000$$

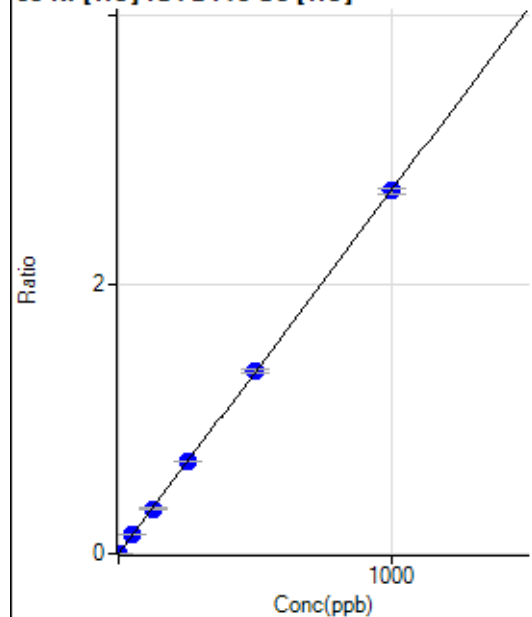
$$DL = 0.006441$$

$$BEC = 0.02324$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	53.33	0.0004	P	31.6
2	☐	1.000	1.063	438.90	0.0033	P	10.2
3	☐	50.000	51.597	18781.38	0.1396	P	1.5
4	☐	125.000	123.920	46716.48	0.3348	P	0.6
5	☐	250.000	252.719	93666.79	0.6824	P	0.5
6	☐	500.000	501.633	184446.75	1.3542	P	1.6
7	☐	1000.000	998.559	365874.45	2.6953	P	1.3
8	☐			1613.44	0.0119	P	3.5

$$y = 0.0027 * x + 3.9483E-004$$

$$R = 1.0000$$

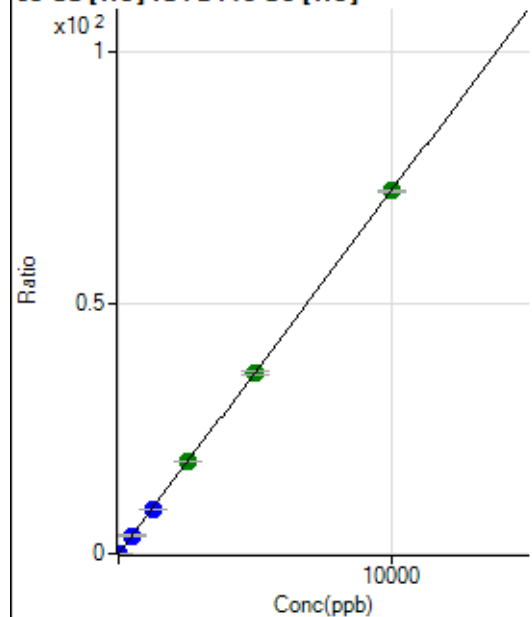
$$DL = 0.1388$$

$$BEC = 0.1463$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	628.91	0.0046	P	4.5
2	☐	2.000	2.472	3029.24	0.0225	P	2.9
3	☐	500.000	501.561	489465.00	3.6385	P	2.2
4	☐	1250.000	1229.553	1243449.31	8.9130	P	0.9
5	☐	2500.000	2557.970	2544340.40	18.5378	A	0.2
6	☐	5000.000	4986.412	4921248.02	36.1324	A	1.9
7	☐	10000.000	9994.779	9830597.42	72.4194	A	0.7
8	☐			5803.47	0.0428	P	0.5

$$y = 0.0072 * x + 0.0046$$

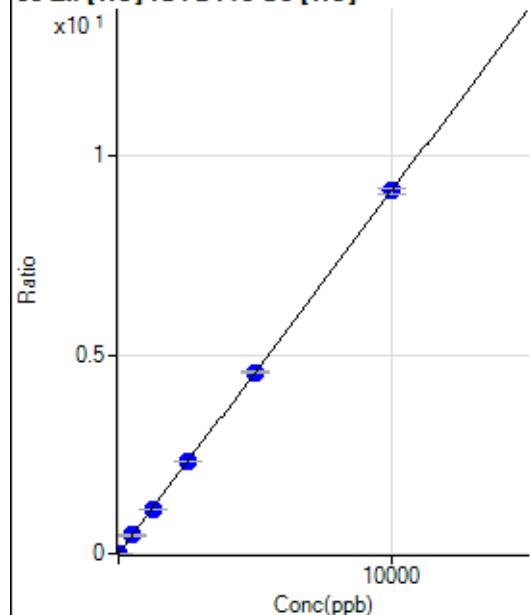
$$R = 1.0000$$

$$DL = 0.08616$$

$$BEC = 0.6355$$

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	128.89	0.0009	P	16.9
2	☐	2.000	2.485	431.13	0.0032	P	2.8
3	☐	500.000	504.255	62032.87	0.4612	P	1.6
4	☐	1250.000	1227.575	156446.58	1.1214	P	1.5
5	☐	2500.000	2527.468	316777.97	2.3080	P	0.7
6	☐	5000.000	4993.350	620916.72	4.5588	P	1.4
7	☐	10000.000	9999.049	1238949.89	9.1279	P	1.7
8	☐			1910.15	0.0141	P	6.2

$$y = 9.1278\text{E-}004 * x + 9.3566\text{E-}004$$

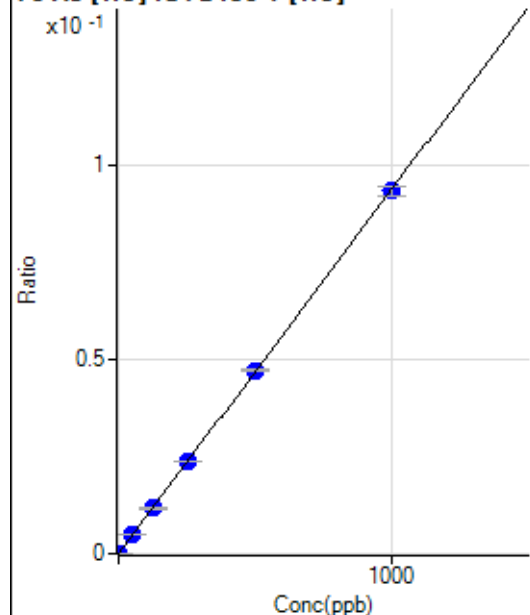
$$R = 1.0000$$

$$DL = 0.5183$$

$$BEC = 1.025$$

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	5.00	0.0000	P	23.4
2	☐	1.000	1.157	105.34	0.0001	P	6.6
3	☐	50.000	51.593	4520.18	0.0048	P	2.0
4	☐	125.000	124.950	11349.70	0.0117	P	3.7
5	☐	250.000	254.246	22912.50	0.0238	P	1.1
6	☐	500.000	504.394	45234.85	0.0472	P	0.6
7	☐	1000.000	996.668	90634.16	0.0932	P	2.4
8	☐			39.67	0.0000	P	3.6

$$y = 9.3506\text{E-}005 * x + 5.2698\text{E-}006$$

$$R = 1.0000$$

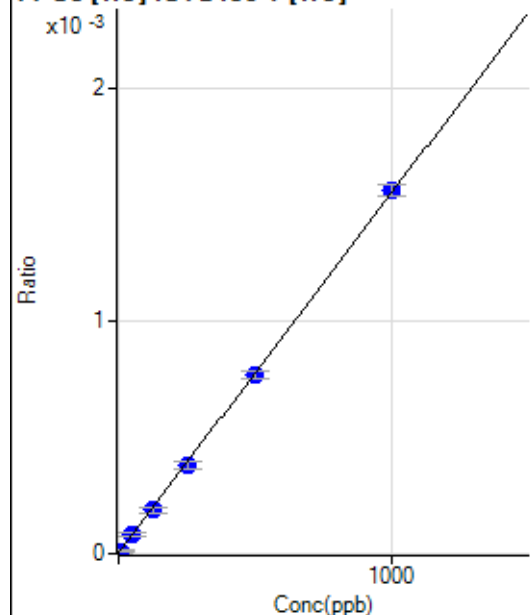
$$DL = 0.03959$$

$$BEC = 0.05636$$

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	3.33	0.0000	P	6.0
2	☐	5.000	4.677	10.00	0.0000	P	31.2
3	☐	50.000	50.556	76.67	0.0001	P	24.0
4	☐	125.000	119.938	183.34	0.0002	P	14.0
5	☐	250.000	241.158	362.23	0.0004	P	8.8
6	☐	500.000	494.114	735.58	0.0008	P	4.2
7	☐	1000.000	1005.760	1514.54	0.0016	P	3.3
8	☐			2.22	0.0000	P	86.6

$$y = 1.5452\text{E-}006 * x + 3.4926\text{E-}006$$

R = 0.9999

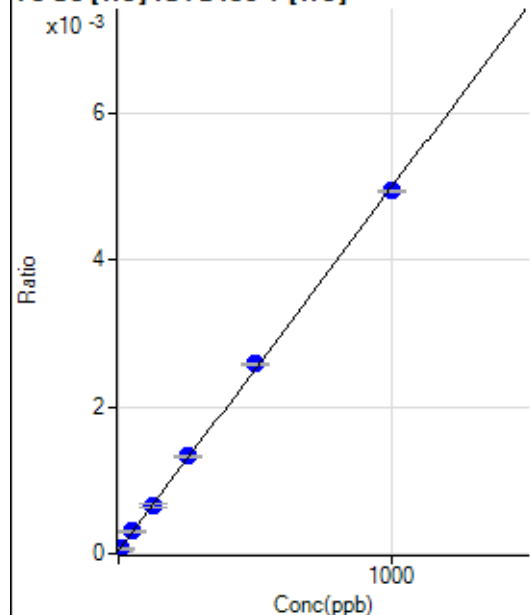
DL = 0.4079

BEC = 2.26

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	40.33	0.0000	P	15.2
2	☐	5.000	5.389	64.01	0.0001	P	12.5
3	☐	50.000	52.592	283.03	0.0003	P	6.8
4	☐	125.000	123.129	632.42	0.0007	P	5.2
5	☐	250.000	260.983	1283.86	0.0013	P	1.6
6	☐	500.000	513.460	2474.80	0.0026	P	1.7
7	☐	1000.000	990.626	4804.64	0.0049	P	0.7
8	☐			47.01	0.0000	P	14.4

$$y = 4.9433\text{E-}006 * x + 4.2385\text{E-}005$$

R = 0.9998

DL = 3.908

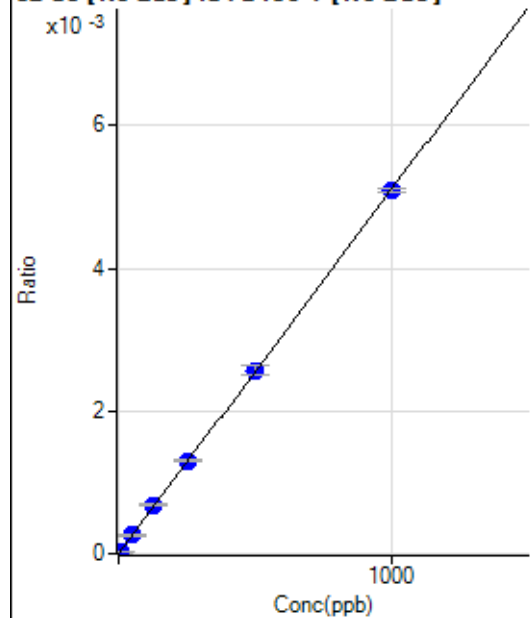
BEC = 8.574

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3814.46		P	2.0
2	☐			3864.51		P	2.0
3	☐			3817.81		P	3.1
4	☐			3694.31		P	4.7
5	☐			4124.88		P	6.8
6	☐			3904.58		P	7.5
7	☐			3951.30		P	1.6
8	☐			4201.64		P	1.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.89	0.0000	P	1429.
2	☐	5.000	4.058	142.27	0.0000	P	37.2
3	☐	50.000	50.822	1775.53	0.0003	P	8.9
4	☐	125.000	133.095	4558.16	0.0007	P	3.6
5	☐	250.000	255.128	9037.61	0.0013	P	1.8
6	☐	500.000	503.180	18017.96	0.0026	P	4.8
7	☐	1000.000	996.079	36400.85	0.0051	P	1.2
8	☐			12.01	0.0000	P	47.2

$$y = 5.1051\text{E-}006 * x + 4.0651\text{E-}007$$

$$R = 0.9999$$

$$DL = 3.416$$

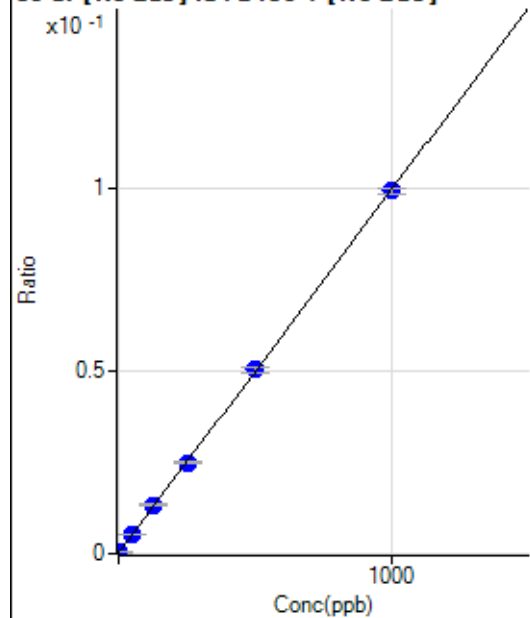
$$BEC = 0.07963$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			768.92		P	5.2
2	☐			810.03		P	3.9
3	☐			788.92		P	7.9
4	☐			792.25		P	1.9
5	☐			844.48		P	0.6
6	☐			782.25		P	7.3
7	☐			775.59		P	2.9
8	☐			793.37		P	4.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1208.42	0.0002	P	14.1
2	☐	1.000	1.323	2052.99	0.0003	P	8.7
3	☐	50.000	50.376	35442.73	0.0052	P	1.3
4	☐	125.000	131.346	88734.26	0.0132	P	4.3
5	☐	250.000	248.719	172794.28	0.0249	P	1.3
6	☐	500.000	505.145	353648.90	0.0504	P	3.2
7	☐	1000.000	996.935	710926.73	0.0993	P	1.7
8	☐			5409.51	0.0008	P	2.4

$$y = 9.9462E-005 * x + 1.7268E-004$$

$$R = 1.0000$$

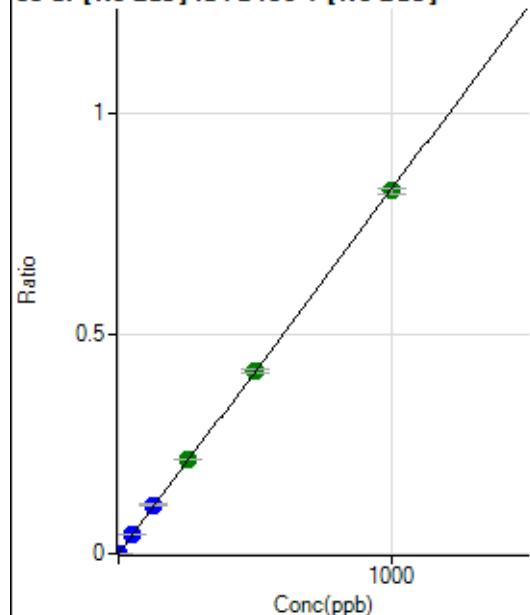
$$DL = 0.7329$$

$$BEC = 1.736$$

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	58.33	0.0000	P	66.1
2	☐	1.000	1.117	6301.57	0.0009	P	9.1
3	☐	50.000	51.759	293381.29	0.0429	P	1.7
4	☐	125.000	134.068	745048.79	0.1111	P	3.4
5	☐	250.000	258.396	1485812.47	0.2142	A	1.0
6	☐	500.000	502.527	2921787.07	0.4165	A	2.6
7	☐	1000.000	995.416	5905479.25	0.8250	A	1.4
8	☐			35579.26	0.0049	P	2.9

$$y = 8.2880E-004 * x + 8.4046E-006$$

$$R = 0.9999$$

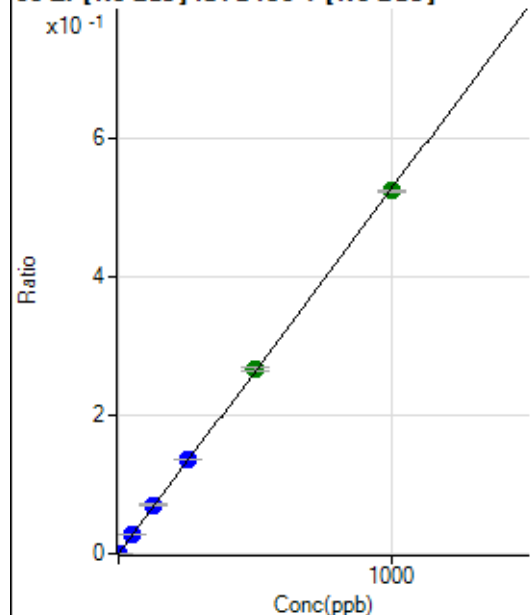
$$DL = 0.02012$$

$$BEC = 0.01014$$

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	333.35	0.0000	P	22.5
2	☐	1.000	1.091	4214.64	0.0006	P	1.7
3	☐	50.000	51.388	185880.57	0.0272	P	1.5
4	☐	125.000	133.350	472459.27	0.0705	P	3.4
5	☐	250.000	258.535	947408.16	0.1366	P	0.4
6	☐	500.000	504.424	1869017.38	0.2664	A	2.4
7	☐	1000.000	994.541	3759974.91	0.5252	A	0.7
8	☐			1452.89	0.0002	P	6.4

$$y = 5.2808E-004 * x + 4.7342E-005$$

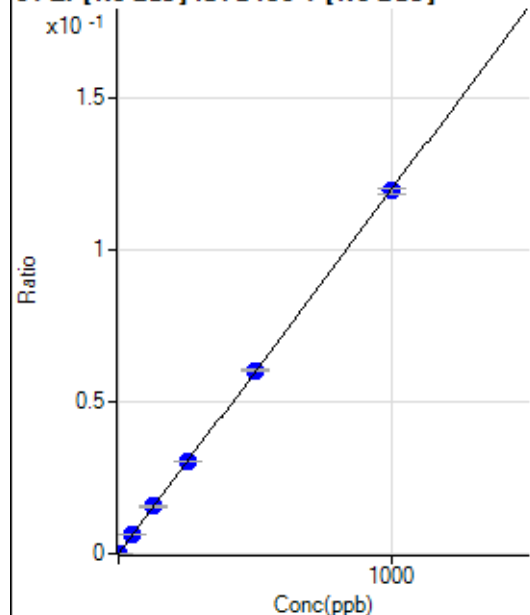
$$R = 0.9999$$

$$DL = 0.06055$$

$$BEC = 0.08965$$

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	61.11	0.0000	P	18.9
2	☐	1.000	1.115	961.17	0.0001	P	8.3
3	☐	50.000	51.018	41844.14	0.0061	P	1.5
4	☐	125.000	130.860	105125.87	0.0157	P	4.2
5	☐	250.000	253.792	210900.25	0.0304	P	1.3
6	☐	500.000	503.525	423167.76	0.0603	P	1.5
7	☐	1000.000	996.506	854337.35	0.1194	P	1.4
8	☐			288.90	0.0000	P	16.9

$$y = 1.1977\text{E-}004 * x + 8.7679\text{E-}006$$

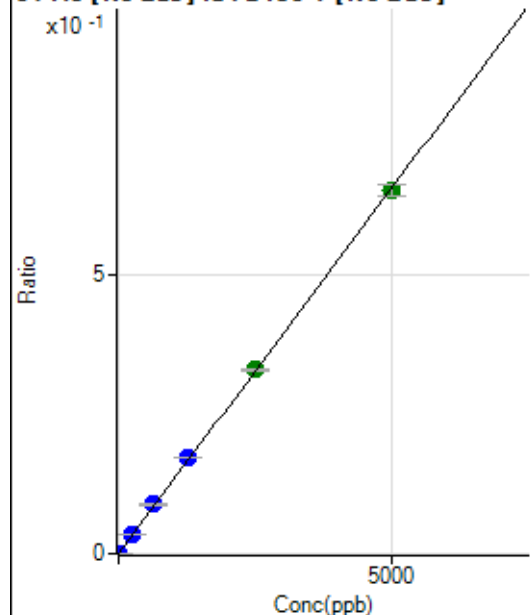
$$R = 1.0000$$

$$DL = 0.04152$$

$$BEC = 0.07321$$

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	86.12	0.0000	P	8.8
2	☐	5.000	5.431	4889.88	0.0007	P	5.4
3	☐	250.000	254.819	228393.86	0.0334	P	2.8
4	☐	625.000	674.217	592508.84	0.0884	P	3.1
5	☐	1250.000	1307.681	1188906.70	0.1714	P	0.1
6	☐	2500.000	2524.449	2321382.30	0.3308	A	1.1
7	☐	5000.000	4966.962	4658211.52	0.6509	A	3.2
8	☐			1469.56	0.0002	P	5.2

$$y = 1.3105\text{E-}004 * x + 1.2323\text{E-}005$$

$$R = 0.9999$$

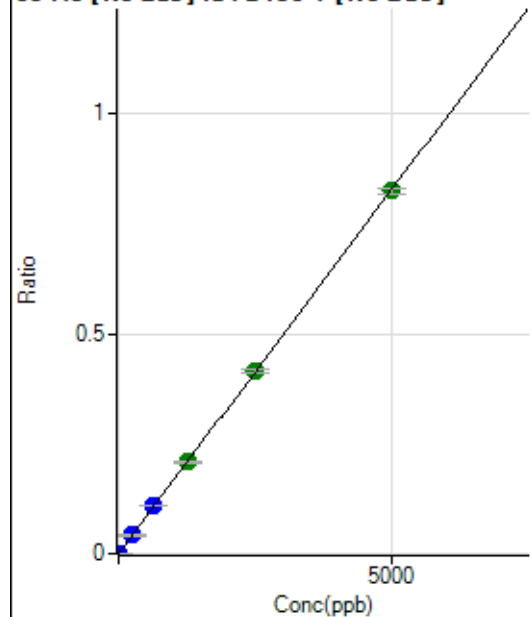
$$DL = 0.02487$$

$$BEC = 0.09403$$

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	19.45	0.0000	P	68.3
2	☐	5.000	5.213	5845.85	0.0009	P	3.5
3	☐	250.000	255.043	288268.60	0.0422	P	3.9
4	☐	625.000	662.273	734130.45	0.1095	P	3.5
5	☐	1250.000	1261.527	1446809.92	0.2086	A	1.3
6	☐	2500.000	2511.335	2913220.10	0.4152	A	1.3
7	☐	5000.000	4986.539	5900944.62	0.8244	A	1.6
8	☐			1711.26	0.0002	P	7.8

$$y = 1.6533E-004 * x + 2.8028E-006$$

$$R = 1.0000$$

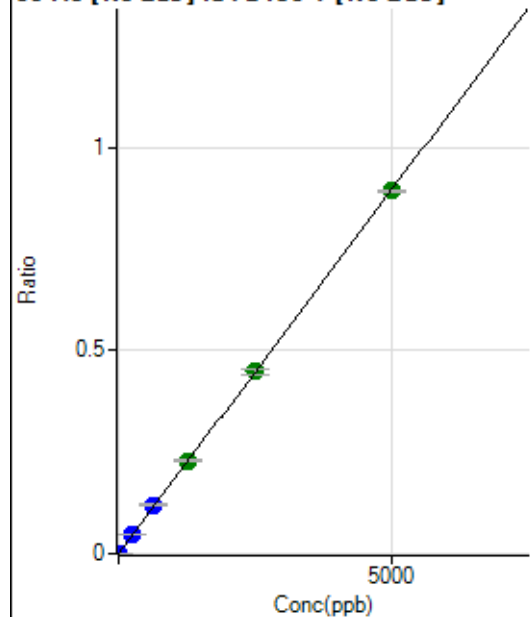
$$DL = 0.03473$$

$$BEC = 0.01695$$

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	25.00	0.0000	P	60.9
2	☐	5.000	5.566	6757.40	0.0010	P	6.8
3	☐	250.000	256.910	314790.70	0.0460	P	2.5
4	☐	625.000	668.522	803120.04	0.1198	P	4.2
5	☐	1250.000	1274.147	1583882.25	0.2283	A	1.3
6	☐	2500.000	2500.241	3143003.70	0.4480	A	2.9
7	☐	5000.000	4988.056	6398742.89	0.8939	A	0.8
8	☐			2658.66	0.0004	P	3.3

$$y = 1.7920E-004 * x + 3.6132E-006$$

$$R = 1.0000$$

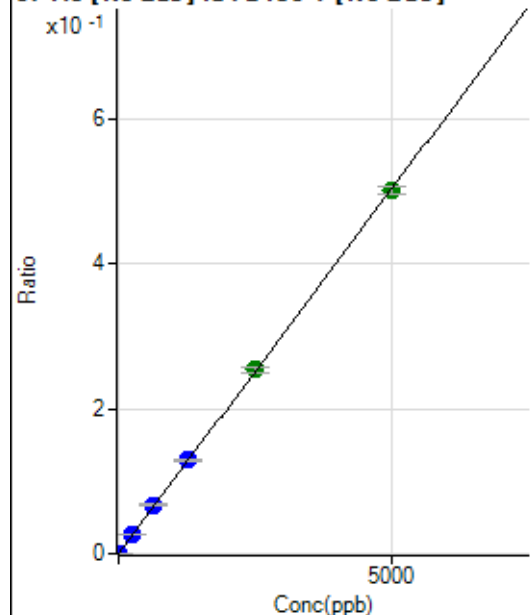
$$DL = 0.03682$$

$$BEC = 0.02016$$

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	8.33	0.0000	P	100.9
2	☐	5.000	5.095	3472.75	0.0005	P	1.9
3	☐	250.000	256.741	176580.25	0.0258	P	2.4
4	☐	625.000	663.144	447244.85	0.0667	P	3.4
5	☐	1250.000	1284.663	896365.33	0.1292	P	1.4
6	☐	2500.000	2520.226	1778513.47	0.2535	A	2.7
7	☐	5000.000	4976.116	3582277.42	0.5005	A	2.3
8	☐			1097.30	0.0002	P	11.3

$$y = 1.0059\text{E-}004 * x + 1.2202\text{E-}006$$

$$R = 0.9999$$

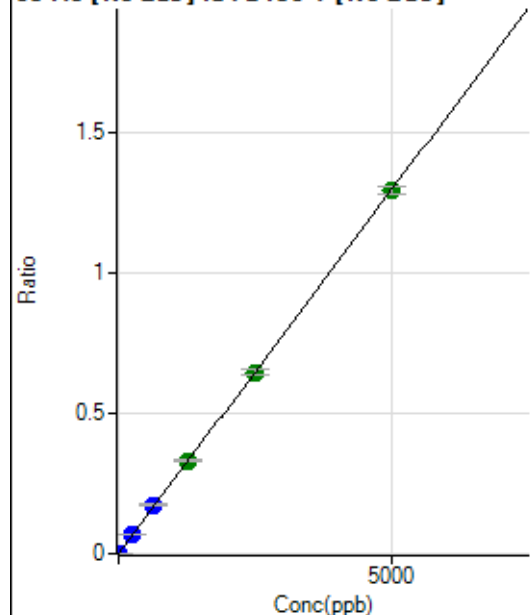
$$DL = 0.0367$$

$$BEC = 0.01213$$

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	16.67	0.0000	P	100.8
2	☐	5.000	5.245	9197.78	0.0014	P	9.4
3	☐	250.000	255.117	452689.52	0.0662	P	2.4
4	☐	625.000	666.279	1159410.39	0.1729	P	3.1
5	☐	1250.000	1280.404	2304873.73	0.3323	A	1.9
6	☐	2500.000	2498.168	4547035.91	0.6483	A	4.2
7	☐	5000.000	4987.899	9264742.13	1.2945	A	2.1
8	☐			2855.92	0.0004	P	0.8

$$y = 2.5952\text{E-}004 * x + 2.4405\text{E-}006$$

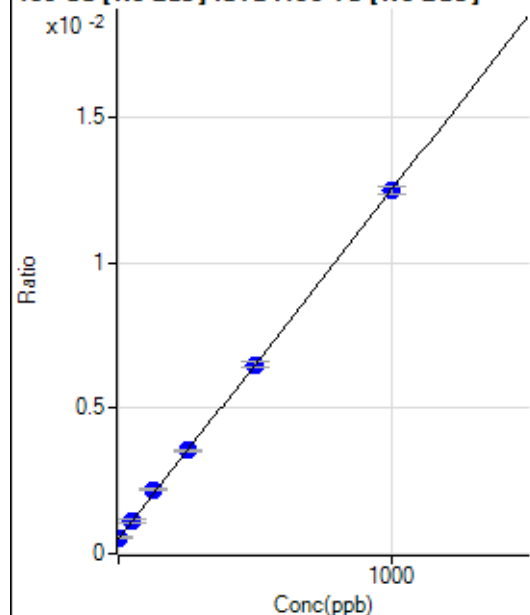
$$R = 1.0000$$

$$DL = 0.02844$$

$$BEC = 0.009404$$

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	2125.23	0.0005	P	2.1
2	☐	1.000	4.139	2247.48	0.0006	P	8.4
3	☐	50.000	50.831	4581.45	0.0011	P	8.1
4	☐	125.000	140.446	8714.07	0.0022	P	2.4
5	☐	250.000	252.457	14902.86	0.0035	P	1.8
6	☐	500.000	499.383	27617.09	0.0065	P	3.0
7	☐	1000.000	997.718	53961.88	0.0125	P	2.0
8	☐			2128.00	0.0005	P	5.2

$$y = 1.2007\text{E-}005 * x + 5.1201\text{E-}004$$

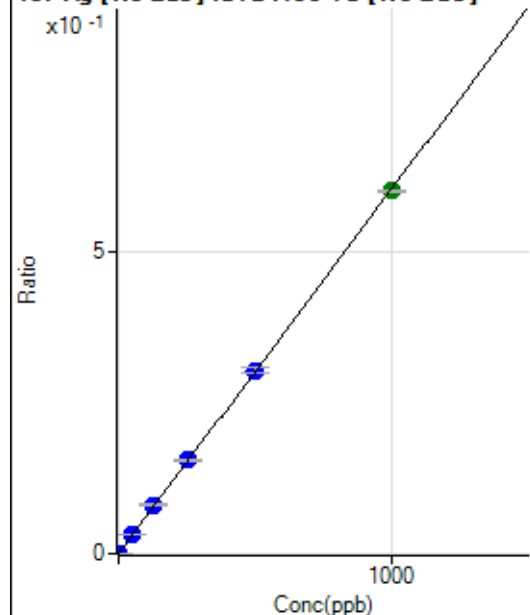
$$R = 0.9999$$

$$DL = 2.719$$

$$BEC = 42.64$$

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	27.78	0.0000	P	15.0
2	☐	1.000	1.065	2589.20	0.0006	P	5.3
3	☐	50.000	51.457	126642.95	0.0310	P	1.3
4	☐	125.000	134.310	320722.82	0.0810	P	4.4
5	☐	250.000	256.171	649738.64	0.1545	P	0.6
6	☐	500.000	503.162	1287398.26	0.3034	P	2.6
7	☐	1000.000	995.640	2592676.93	0.6003	A	0.9
8	☐			802.83	0.0002	P	10.6

$$y = 6.0290\text{E-}004 * x + 6.6792\text{E-}006$$

$$R = 0.9999$$

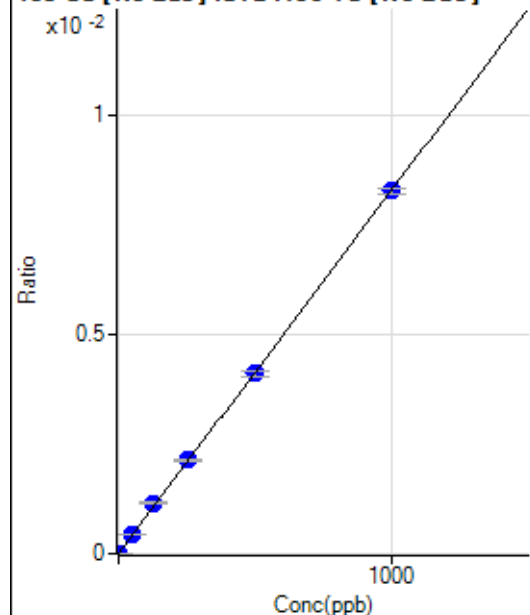
$$DL = 0.004978$$

$$BEC = 0.01108$$

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	9.72	0.0000	P	109.7
2	☐	1.000	1.347	54.17	0.0000	P	25.4
3	☐	50.000	51.418	1748.74	0.0004	P	4.8
4	☐	125.000	138.360	4548.03	0.0011	P	4.3
5	☐	250.000	257.433	8979.39	0.0021	P	0.9
6	☐	500.000	495.253	17415.31	0.0041	P	3.6
7	☐	1000.000	998.774	35736.65	0.0083	P	1.6
8	☐			34.72	0.0000	P	59.3

$$y = 8.2826\text{E-}006 * x + 2.3689\text{E-}006$$

$$R = 0.9999$$

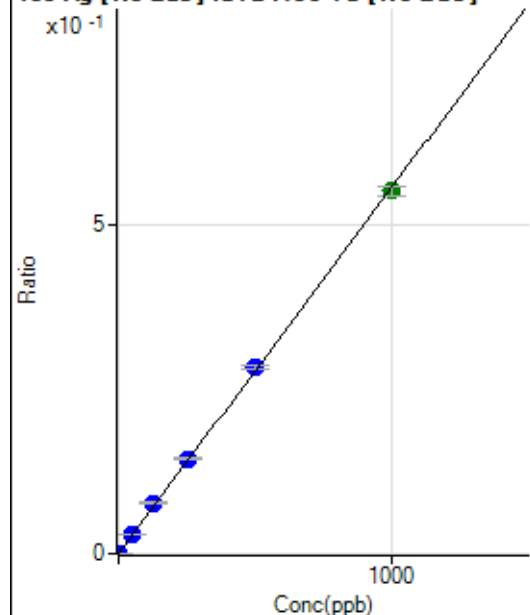
$$DL = 0.9415$$

$$BEC = 0.286$$

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	30.55	0.0000	P	13.8
2	☐	1.000	1.097	2466.95	0.0006	P	5.0
3	☐	50.000	52.416	118942.99	0.0291	P	2.5
4	☐	125.000	137.750	303259.63	0.0766	P	5.2
5	☐	250.000	259.516	606928.48	0.1443	P	0.7
6	☐	500.000	508.516	1199876.12	0.2827	P	2.2
7	☐	1000.000	991.648	2380513.16	0.5513	A	2.8
8	☐			716.70	0.0002	P	2.9

$$y = 5.5595\text{E-}004 * x + 7.3485\text{E-}006$$

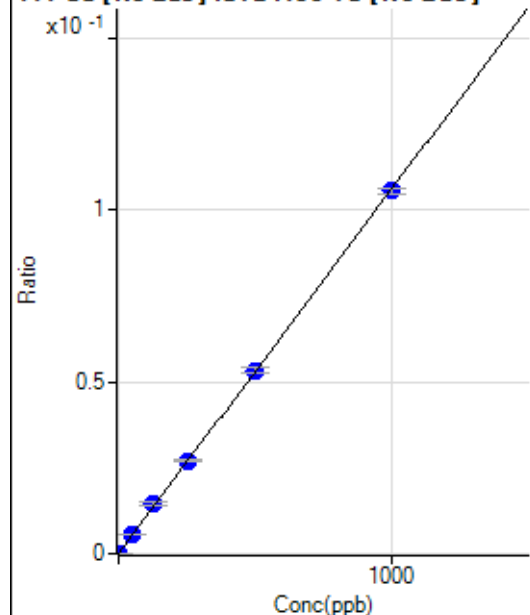
$$R = 0.9998$$

$$DL = 0.005487$$

$$BEC = 0.01322$$

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	209.89	0.0001	P	4.8
2	☐	1.000	1.252	731.30	0.0002	P	4.3
3	☐	50.000	52.297	22840.50	0.0056	P	1.8
4	☐	125.000	136.218	57379.17	0.0145	P	6.4
5	☐	250.000	254.837	113887.42	0.0271	P	1.9
6	☐	500.000	503.137	226616.50	0.0534	P	3.5
7	☐	1000.000	995.705	456221.90	0.1056	P	1.9
8	☐			363.50	0.0001	P	6.4

$$y = 1.0605\text{E-}004 * x + 5.0565\text{E-}005$$

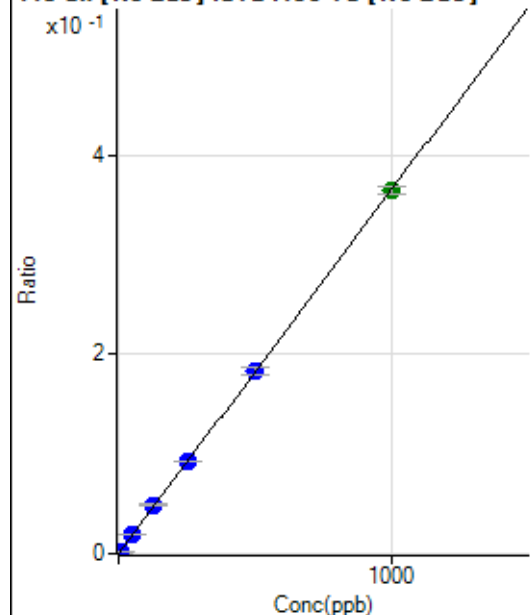
R = 0.9999

DL = 0.06852

BEC = 0.4768

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	155.56	0.0000	P	5.4
2	☐	5.000	5.483	8135.95	0.0020	P	7.1
3	☐	50.000	51.524	76958.66	0.0189	P	2.7
4	☐	125.000	133.980	193966.06	0.0490	P	4.8
5	☐	250.000	253.917	390317.22	0.0928	P	1.4
6	☐	500.000	502.299	778751.88	0.1835	P	3.5
7	☐	1000.000	996.670	1572455.45	0.3641	A	2.1
8	☐			911.17	0.0002	P	12.4

$$y = 3.6531\text{E-}004 * x + 3.7518\text{E-}005$$

R = 1.0000

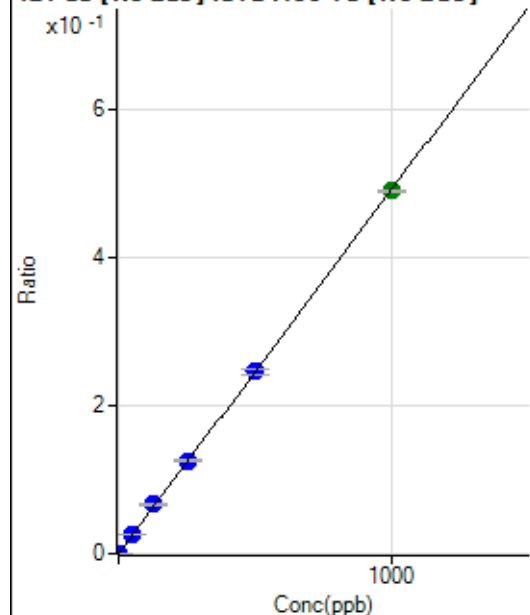
DL = 0.01667

BEC = 0.1027

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	13.89	0.0000	P	125.8
2	☐	2.000	2.150	4217.42	0.0011	P	8.9
3	☐	50.000	51.259	102713.07	0.0252	P	1.0
4	☐	125.000	135.886	264140.56	0.0667	P	5.0
5	☐	250.000	255.835	528215.78	0.1256	P	2.0
6	☐	500.000	501.117	1043861.10	0.2460	P	3.0
7	☐	1000.000	996.559	2113015.24	0.4892	A	0.8
8	☐			1327.88	0.0003	P	5.1

$$y = 4.9088\text{E-}004 * x + 3.3305\text{E-}006$$

$$R = 0.9999$$

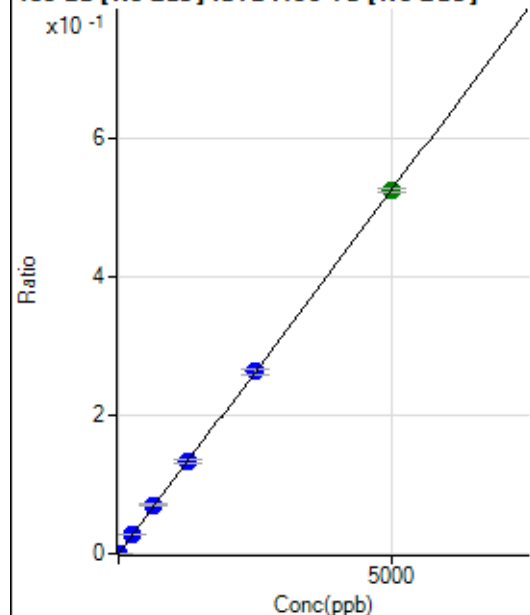
$$DL = 0.0256$$

$$BEC = 0.006785$$

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	92.3
2	☐	10.000	10.241	4303.58	0.0011	P	4.4
3	☐	250.000	255.527	109525.98	0.0268	P	2.4
4	☐	625.000	667.670	277745.21	0.0701	P	4.0
5	☐	1250.000	1267.131	559677.97	0.1331	P	2.6
6	☐	2500.000	2499.824	1114186.52	0.2625	P	2.5
7	☐	5000.000	4990.195	2263415.00	0.5241	A	1.1
8	☐			780.60	0.0002	P	7.3

$$y = 1.0502\text{E-}004 * x + 3.3996\text{E-}006$$

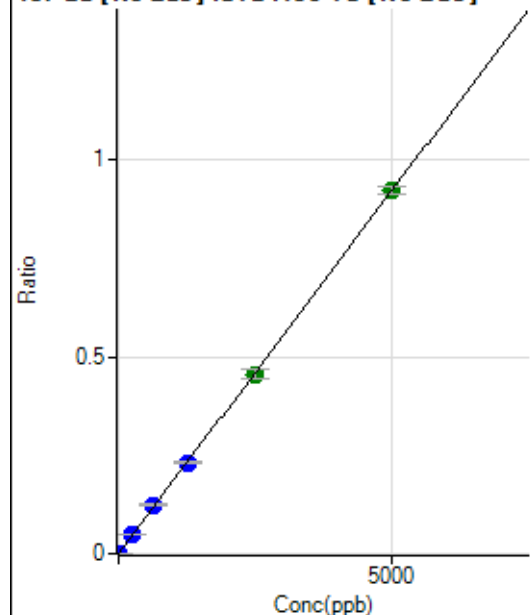
$$R = 1.0000$$

$$DL = 0.08959$$

$$BEC = 0.03237$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.7
2	☐	10.000	10.476	7719.07	0.0019	P	2.7
3	☐	250.000	256.314	192508.43	0.0472	P	2.9
4	☐	625.000	668.786	487454.83	0.1231	P	4.7
5	☐	1250.000	1256.261	972483.74	0.2312	P	1.8
6	☐	2500.000	2477.834	1934453.39	0.4560	A	5.2
7	☐	5000.000	5003.728	3976913.28	0.9209	A	2.0
8	☐			1322.32	0.0003	P	7.3

$$y = 1.8404\text{E-}004 * x + 6.0608\text{E-}006$$

$$R = 0.9999$$

$$DL = 0.06594$$

$$BEC = 0.03293$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	114.5
2	☐			2.22		P	173.2
3	☐			15.55		P	24.8
4	☐			13.33		P	NaN
5	☐			33.33		P	34.6
6	☐			44.44		P	22.9
7	☐			97.78		P	35.0
8	☐			28.89		P	35.2

150 Nd [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	☐			2.22		P	86.6
4	☐			1.11		P	173.2
5	☐			1.11		P	173.2
6	☐			11.11		P	96.4
7	☐			15.56		P	32.7
8	☐			5.56		P	34.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	43.3
2	☐			13.89		P	34.7
3	☐			16.67		P	100.0
4	☐			30.56		P	41.7
5	☐			41.67		P	72.1
6	☐			80.56		P	26.0
7	☐			161.11		P	20.9
8	☐			383.35		P	24.5

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			4.44		P	43.4
2	☐			1.11		P	173.2
3	☐			4.44		P	43.4
4	☐			10.00		P	66.7
5	☐			21.11		P	77.9
6	☐			34.44		P	27.9
7	☐			77.78		P	13.1
8	☐			311.12		P	18.3

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			72.22		P	29.0
2	☐			55.55		P	37.8
3	☐			69.45		P	42.1
4	☐			47.22		P	50.9
5	☐			83.34		P	62.4
6	☐			113.89		P	23.5
7	☐			175.01		P	4.8
8	☐			577.81		P	3.6

160 Gd [He] No available calibration points

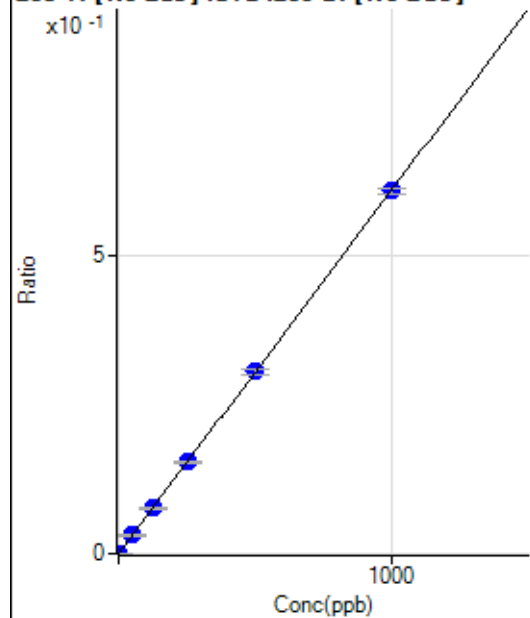
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			24.44		P	51.6
2	☐			21.11		P	39.7
3	☐			21.11		P	55.4
4	☐			41.11		P	16.9
5	☐			50.00		P	30.6
6	☐			60.00		P	25.5
7	☐			98.89		P	15.6
8	☐			387.79		P	8.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	57.3
2	☐			30.56		P	41.7
3	☐			27.78		P	45.8
4	☐			27.78		P	62.5
5	☐			25.00		P	33.3
6	☐			52.78		P	63.8
7	☐			55.56		P	48.2
8	☐			100.00		P	22.0

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			15.56		P	32.7
2	☐			12.22		P	41.7
3	☐			10.00		P	66.7
4	☐			16.67		P	60.0
5	☐			17.78		P	47.2
6	☐			13.33		P	50.0
7	☐			27.78		P	50.0
8	☐			51.11		P	26.4

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	0.0000	P	92.9
2	☐	1.000	1.157	1480.68	0.0007	P	6.1
3	☐	50.000	50.393	64602.95	0.0307	P	2.4
4	☐	125.000	126.527	163652.52	0.0770	P	4.6
5	☐	250.000	252.240	330353.59	0.1536	P	2.8
6	☐	500.000	501.380	663584.90	0.3052	P	2.9
7	☐	1000.000	998.539	1362521.54	0.6079	P	1.5
8	☐			141.67	0.0001	P	12.2

$$y = 6.0875E-004 * x + 9.9106E-006$$

$$R = 1.0000$$

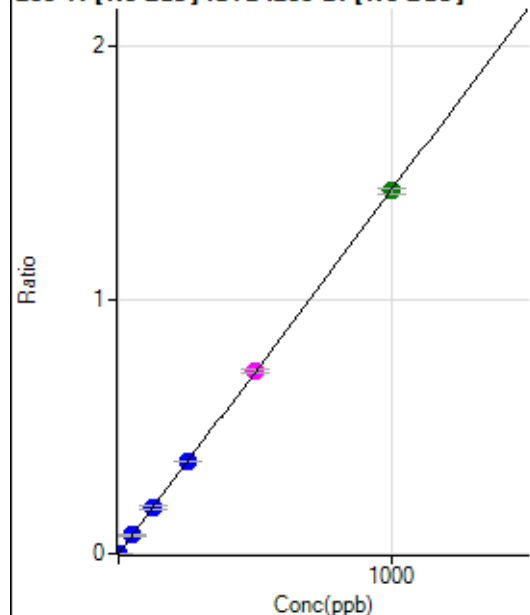
$$DL = 0.0454$$

$$BEC = 0.01628$$

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	63.89	0.0000	P	28.8
2	☐	1.000	1.010	3056.01	0.0015	P	4.0
3	☐	50.000	50.257	151404.52	0.0719	P	3.3
4	☐	125.000	126.026	382951.35	0.1803	P	5.7
5	☐	250.000	253.485	780362.73	0.3627	P	1.6
6	☐	500.000	502.061	1561769.87	0.7183	M	2.5
7	☐	1000.000	997.957	3200438.42	1.4278	A	1.8
8	☐			258.34	0.0001	P	33.6

$$y = 0.0014 * x + 2.9236E-005$$

$$R = 1.0000$$

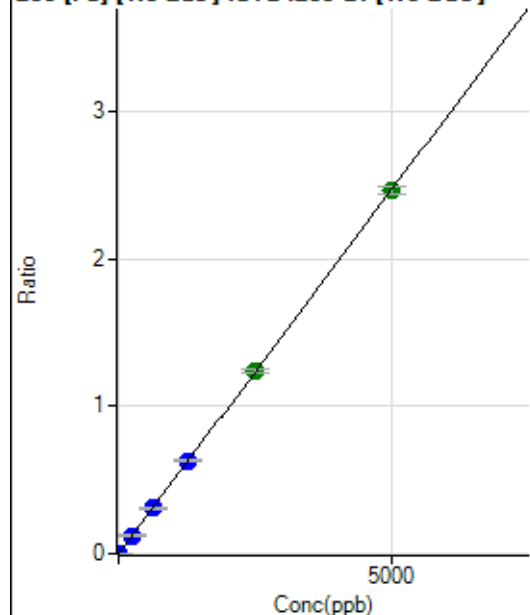
$$DL = 0.01766$$

$$BEC = 0.02043$$

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	48.15	0.0000	P	24.6
2	☐	1.000	1.050	1116.74	0.0005	P	8.9
3	☐	250.000	250.264	259782.78	0.1234	P	3.4
4	☐	625.000	624.575	653694.51	0.3080	P	7.3
5	☐	1250.000	1270.606	1348083.62	0.6266	P	1.9
6	☐	2500.000	2516.623	2698171.96	1.2410	A	2.5
7	☐	5000.000	4986.577	5511694.97	2.4590	A	2.2
8	☐			11824.13	0.0055	P	2.3

$$y = 4.9312E-004 * x + 2.1962E-005$$

$$R = 1.0000$$

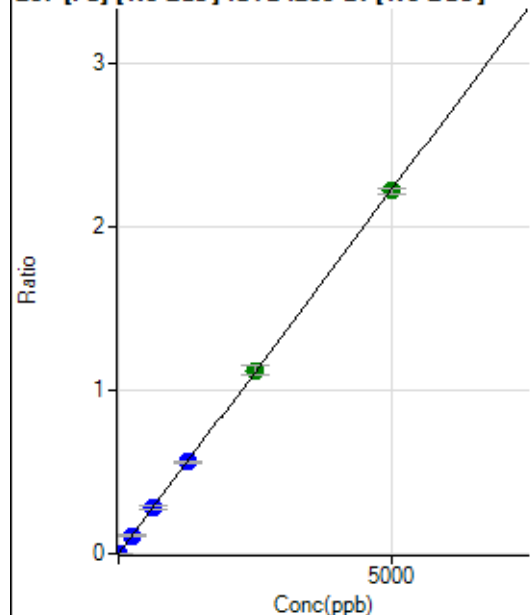
$$DL = 0.03284$$

$$BEC = 0.04454$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35.19	0.0000	P	20.8
2	☐	1.000	0.969	925.98	0.0004	P	8.4
3	☐	250.000	248.354	232750.66	0.1106	P	3.3
4	☐	625.000	630.090	595601.87	0.2805	P	6.3
5	☐	1250.000	1256.923	1203971.82	0.5596	P	2.0
6	☐	2500.000	2522.186	2440805.96	1.1229	A	4.7
7	☐	5000.000	4986.622	4975723.03	2.2201	A	1.7
8	☐			10839.88	0.0050	P	4.2

$$y = 4.4521\text{E-}004 * x + 1.5970\text{E-}005$$

$$R = 1.0000$$

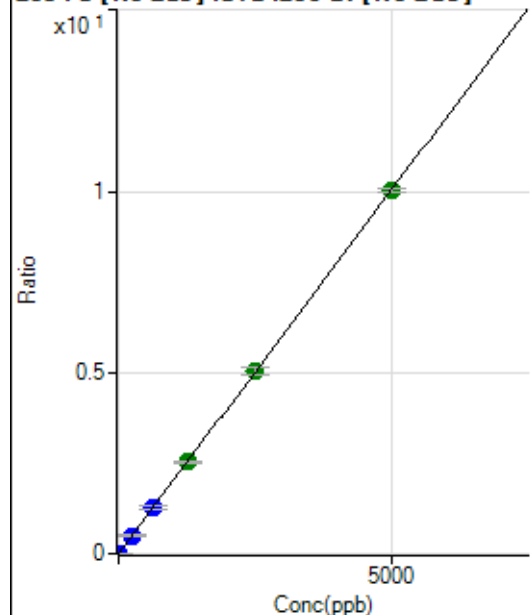
$$DL = 0.02238$$

$$BEC = 0.03587$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	137.04	0.0001	P	2.7
2	☐	1.000	1.020	4361.49	0.0021	P	7.9
3	☐	250.000	248.378	1049286.49	0.4985	P	3.2
4	☐	625.000	630.355	2685565.49	1.2651	P	6.7
5	☐	1250.000	1267.134	5471307.33	2.5430	A	1.9
6	☐	2500.000	2515.100	10973105.89	5.0476	A	3.5
7	☐	5000.000	4987.578	22433675.91	10.0095	A	1.1
8	☐			47981.68	0.0222	P	1.8

$$y = 0.0020 * x + 6.2482\text{E-}005$$

$$R = 1.0000$$

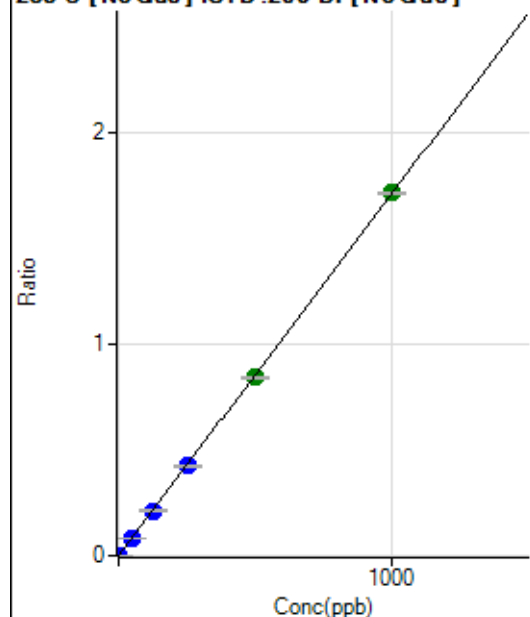
$$DL = 0.002491$$

$$BEC = 0.03113$$

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	8.33	0.0000	P	102.5
2	☐	1.000	1.069	3784.02	0.0018	P	5.2
3	☐	50.000	48.973	175814.40	0.0835	P	3.7
4	☐	125.000	124.081	449320.37	0.2117	P	6.6
5	☐	250.000	248.536	912002.57	0.4239	P	3.2
6	☐	500.000	494.144	1833114.78	0.8429	A	1.0
7	☐	1000.000	1003.460	3836423.78	1.7117	A	0.7
8	☐			411.13	0.0002	P	7.1

$$y = 0.0017 * x + 3.8282E-006$$

$$R = 1.0000$$

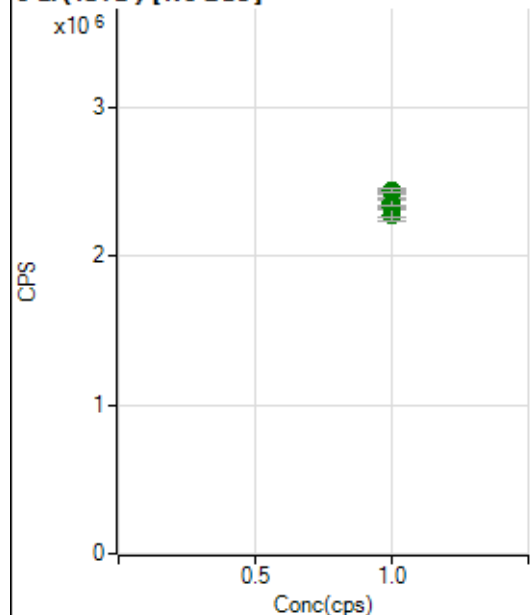
$$DL = 0.006904$$

$$BEC = 0.002244$$

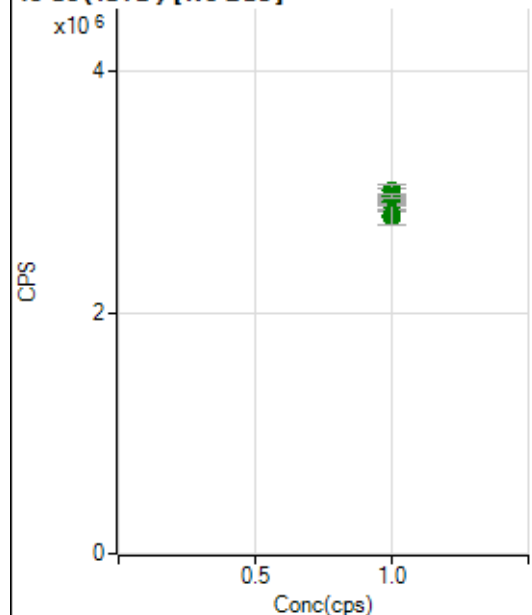
Weight: <None>

Min Conc: 0

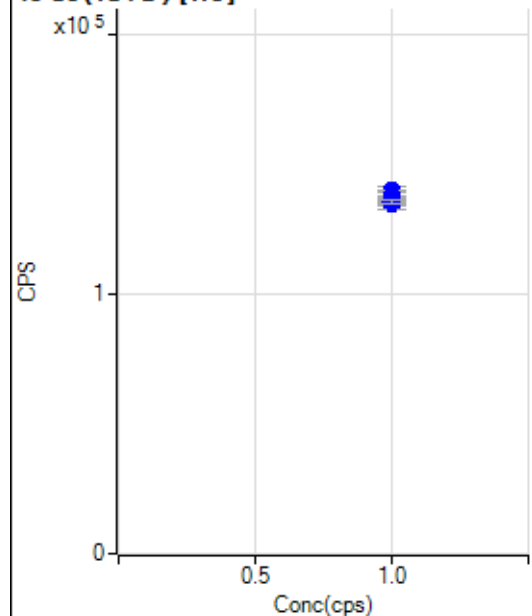
6 Li (ISTD) [No Gas]



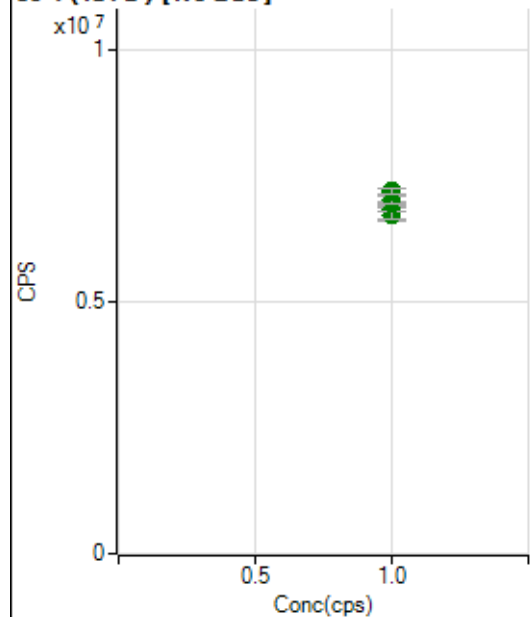
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2382212.87		A	3.5
2	☐	1.000		2272595.22		A	3.2
3	☐	1.000		2343883.65		A	2.2
4	☐	1.000		2320038.77		A	5.2
5	☐	1.000		2357948.56		A	2.1
6	☐	1.000		2425426.87		A	1.3
7	☐	1.000		2432325.87		A	0.5
8	☐	1.000		2435546.56		A	1.2

45 Sc (ISTD) [No Gas]

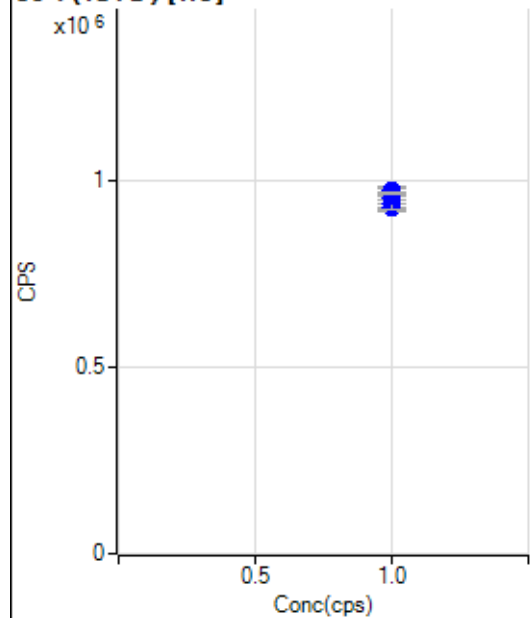
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2888865.27		A	2.1
2	☐	1.000		2790196.35		A	3.9
3	☐	1.000		2916897.02		A	1.9
4	☐	1.000		2806592.27		A	5.4
5	☐	1.000		2948596.31		A	1.1
6	☐	1.000		2970371.73		A	4.4
7	☐	1.000		3009901.71		A	3.8
8	☐	1.000		2972015.03		A	1.1

45 Sc (ISTD) [He]

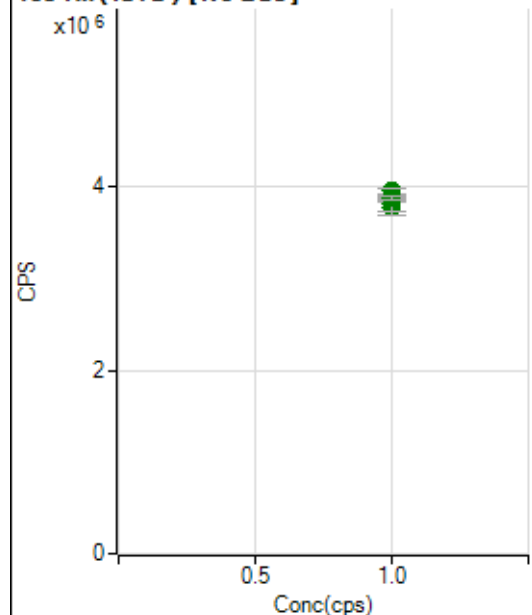
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		136800.67		P	6.4
2	☐	1.000		134572.22		P	1.1
3	☐	1.000		134528.75		P	2.8
4	☐	1.000		139516.27		P	0.8
5	☐	1.000		137252.61		P	0.4
6	☐	1.000		136212.88		P	0.8
7	☐	1.000		135756.08		P	1.6
8	☐	1.000		135460.09		P	0.8

89 Y (ISTD) [No Gas]

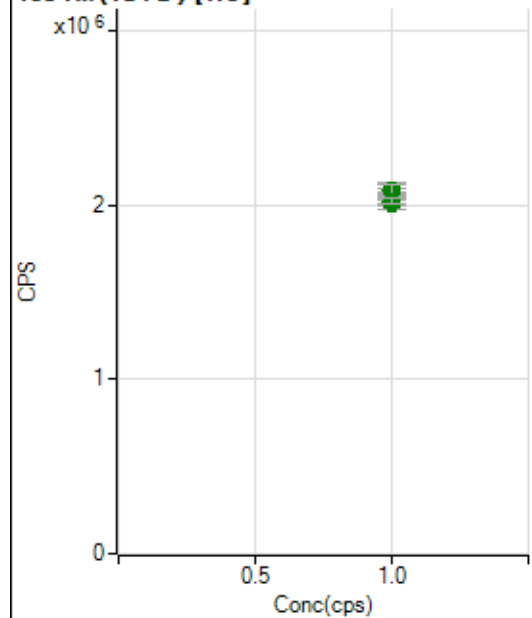
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		7002158.85		A	3.8
2	☐	1.000		6763959.00		A	4.5
3	☐	1.000		6838964.83		A	1.7
4	☐	1.000		6708554.90		A	2.6
5	☐	1.000		6937134.55		A	1.0
6	☐	1.000		7017621.35		A	2.1
7	☐	1.000		7158761.77		A	1.9
8	☐	1.000		7188905.38		A	1.3

89 Y (ISTD) [He]

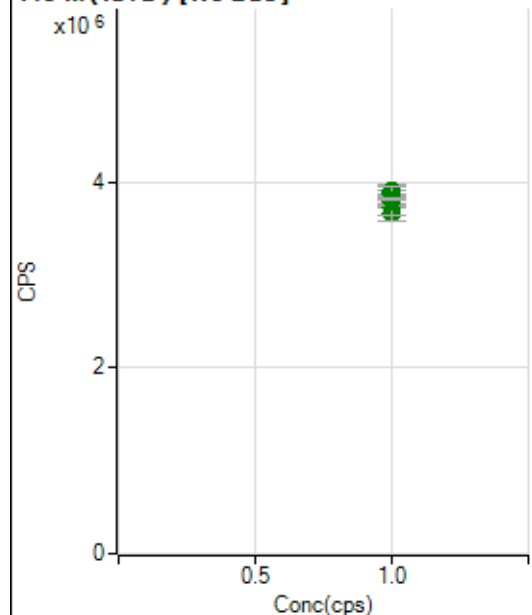
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		955794.49		P	6.1
2	☐	1.000		928687.72		P	2.2
3	☐	1.000		936136.45		P	2.7
4	☐	1.000		971389.26		P	1.7
5	☐	1.000		963601.23		P	1.0
6	☐	1.000		958995.28		P	0.3
7	☐	1.000		972709.46		P	1.6
8	☐	1.000		968383.15		P	0.5

103 Rh (ISTD) [No Gas]

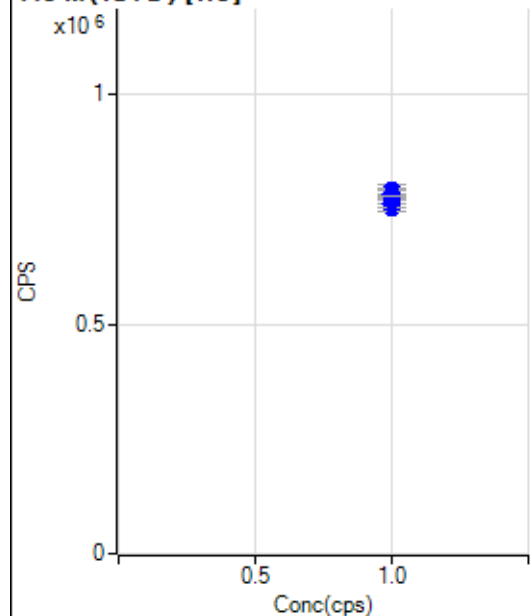
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3879342.97		A	1.9
2	☐	1.000		3774402.52		A	4.1
3	☐	1.000		3874450.17		A	0.9
4	☐	1.000		3819791.49		A	5.2
5	☐	1.000		3897710.55		A	0.6
6	☐	1.000		3877651.04		A	2.1
7	☐	1.000		3952541.19		A	1.9
8	☐	1.000		3874483.46		A	1.5

103 Rh (ISTD) [He]

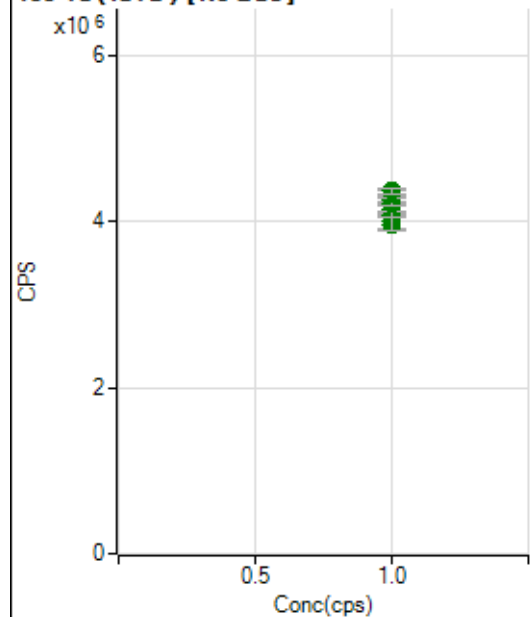
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2069979.01		A	5.8
2	☐	1.000		2016422.45		A	1.6
3	☐	1.000		2011528.04		A	3.3
4	☐	1.000		2078641.77		A	2.0
5	☐	1.000		2054345.27		A	0.8
6	☐	1.000		2053639.00		A	1.8
7	☐	1.000		2080448.89		A	3.3
8	☐	1.000		2022589.41		A	1.3

115 In (ISTD) [No Gas]

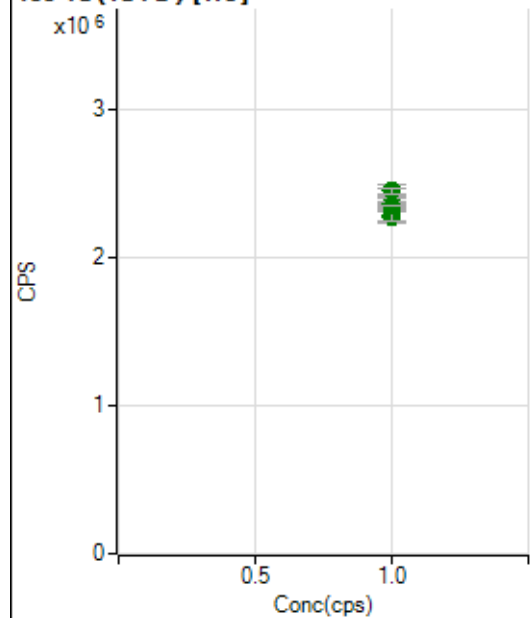
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3894726.08		A	3.9
2	☐	1.000		3653663.13		A	4.1
3	☐	1.000		3819527.54		A	2.8
4	☐	1.000		3726004.94		A	4.2
5	☐	1.000		3863072.89		A	2.7
6	☐	1.000		3782820.32		A	2.4
7	☐	1.000		3901324.23		A	2.6
8	☐	1.000		3814644.82		A	1.0

115 In (ISTD) [He]

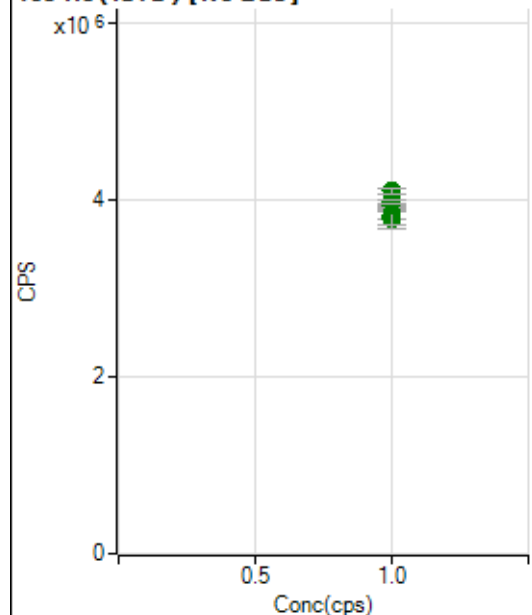
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		777683.11		P	6.3
2	☐	1.000		753829.42		P	1.9
3	☐	1.000		761258.95		P	2.6
4	☐	1.000		789450.53		P	1.3
5	☐	1.000		778212.17		P	1.5
6	☐	1.000		771393.21		P	0.9
7	☐	1.000		781441.12		P	2.1
8	☐	1.000		777809.68		P	0.4

159 Tb (ISTD) [No Gas]

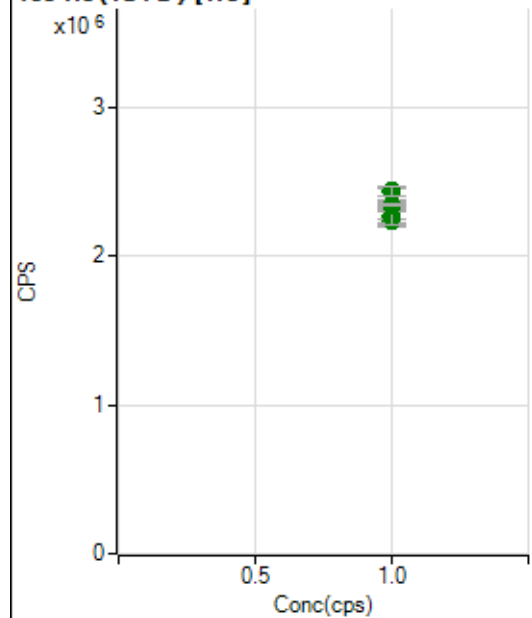
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		4149906.57		A	2.5
2	☐	1.000		3993495.50		A	4.0
3	☐	1.000		4081927.40		A	1.9
4	☐	1.000		3965437.13		A	4.3
5	☐	1.000		4206713.03		A	1.4
6	☐	1.000		4245643.41		A	2.6
7	☐	1.000		4319536.05		A	2.1
8	☐	1.000		4363731.36		A	1.3

159 Tb (ISTD) [He]

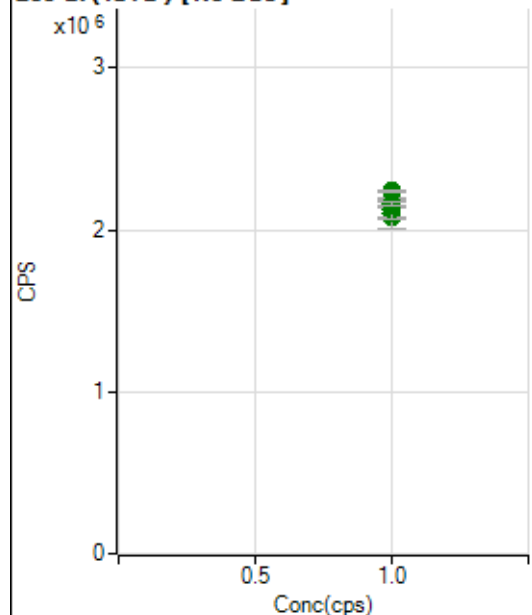
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2318889.72		A	7.7
2	☐	1.000		2272131.64		A	3.4
3	☐	1.000		2284169.74		A	3.5
4	☐	1.000		2346322.53		A	1.3
5	☐	1.000		2356676.44		A	0.9
6	☐	1.000		2411825.89		A	0.8
7	☐	1.000		2445796.49		A	3.1
8	☐	1.000		2445372.51		A	1.2

165 Ho (ISTD) [No Gas]

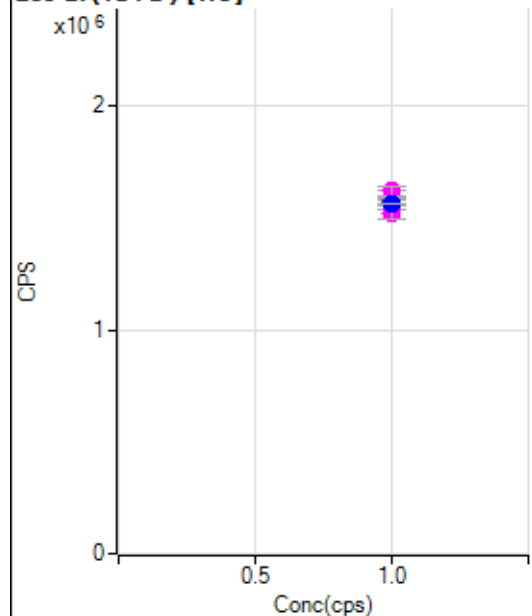
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3856781.38		A	3.8
2	☐	1.000		3772224.09		A	5.8
3	☐	1.000		3793731.21		A	4.4
4	☐	1.000		3828548.61		A	6.5
5	☐	1.000		3936843.27		A	1.4
6	☐	1.000		3973014.02		A	1.3
7	☐	1.000		4059471.92		A	2.9
8	☐	1.000		4098120.10		A	1.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2281671.74		A	7.6
2	☐	1.000		2235440.68		A	1.2
3	☐	1.000		2261495.77		A	3.9
4	☐	1.000		2344984.85		A	2.7
5	☐	1.000		2340411.70		A	1.1
6	☐	1.000		2344485.77		A	0.8
7	☐	1.000		2431629.70		A	1.7
8	☐	1.000		2439512.19		A	2.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2194442.17		A	3.8
2	☐	1.000		2074577.45		A	6.1
3	☐	1.000		2106144.98		A	3.1
4	☐	1.000		2127860.78		A	5.4
5	☐	1.000		2151970.90		A	1.8
6	☐	1.000		2175002.90		A	2.4
7	☐	1.000		2241349.69		A	0.9
8	☐	1.000		2161284.20		A	0.9

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1560538.66		M	8.0
2	☐	1.000		1517565.43		M	2.7
3	☐	1.000		1523411.61		M	3.9
4	☐	1.000		1573334.45		A	1.0
5	☐	1.000		1580872.75		M	2.6
6	☐	1.000		1577278.98		M	1.6
7	☐	1.000		1620729.54		M	2.4
8	☐	1.000		1560691.75		P	0.1

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8030121MS.b
Acq. Date-Time 2021-03-01 10:59:39
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		5082	50821.81			1.209	5.000
24		55576	555755.08			1.386	5.000
25		7671	76710.95			1.203	5.000
26		8520	85200.43			1.461	5.000
59		8591	85910.74			1.523	5.000
113		3321	33207.06			1.586	5.000
115		10989	109894.41			0.926	5.000
206		3594	35935.29			2.487	5.000
207		3014	30139.96			2.230	5.000
208		7380	73798.93			1.639	5.000
220		1	9.10			4.597	

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

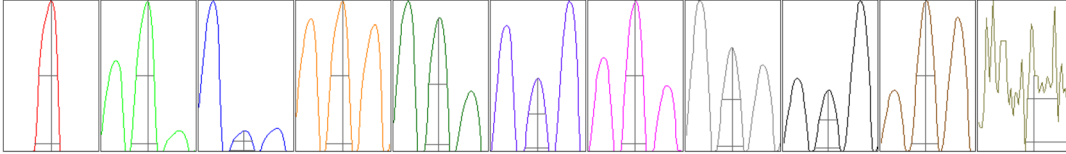
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	5032	5101	5061	5036	5181
24	55425	55625	55316	54703	56809
25	7598	7677	7646	7609	7826
26	8447	8543	8473	8411	8725
59	8454	8647	8558	8509	8787
113	3270	3322	3312	3292	3408
115	11071	11119	10937	10872	10948
206	3490	3617	3547	3583	3729
207	2948	2965	3016	3021	3120
208	7239	7355	7325	7417	7563

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	9126.34	9.05	8.90 - 9.10	
24	102330.67	24.00	23.90 - 24.10	
25	13383.57	24.95	24.90 - 25.10	
26	15429.30	26.00	25.90 - 26.10	
59	15757.96	58.95	58.90 - 59.10	
113	6389.36	113.00	112.90 - 113.10	
115	21007.19	115.00	114.90 - 115.10	
206	6562.52	206.00	205.90 - 206.10	
207	5471.78	206.95	206.90 - 207.10	
208	13549.19	207.95	207.90 - 208.10	
220	1.00	220.30	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.774	0.900	
24	0.57	0.815	0.900	
25	0.61	0.785	0.900	
26	0.59	0.814	0.900	
59	0.58	0.770	0.900	
113	0.54	0.737	0.900	
115	0.54	0.771	0.900	
206	0.57	0.822	0.900	
207	0.57	0.795	0.900	
208	0.57	0.843	0.900	
220	0.93	1.469		

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 0.47 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	11.2 V	Deflect	15.2 V
Extract 2	-230.0 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	121	Axis Gain	0.9991	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	-0.02		

Hardware Settings

Torch

Torch H	0.6 mm	Torch V	-0.3 mm
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EM

Discriminator	4.0 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		2084	20844.25			1.125	
89		11474	114744.34			1.240	
205		3715	37150.09			1.353	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	2089	2119	2063	2062	2089
89	11608	11515	11250	11429	11570
205	3783	3701	3649	3700	3742

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.52 L/min	Dilution Gas	0.47 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	11.2 V	Deflect	4.4 V
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US EPA Tune Check Report

Extract 2	-230.0 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	121	Axis Gain	0.9991	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.02		
Hardware Settings					
Torch					
Torch H	0.6 mm	Torch V	-0.3 mm		
EM					
Discriminator	4.0 mV	Analog HV	2190 V	Pulse HV	1356 V