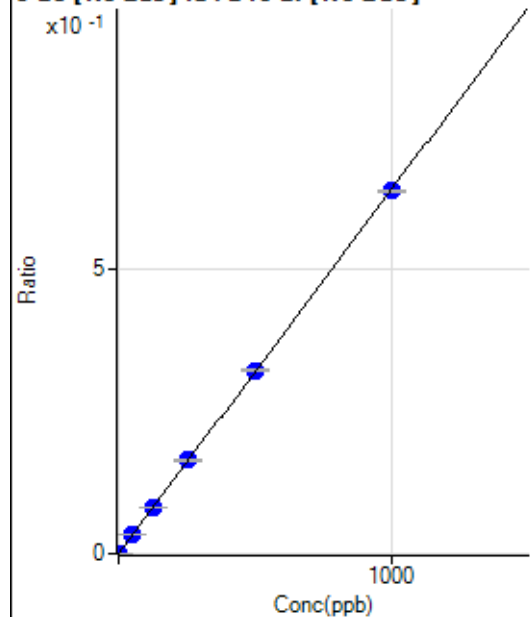


Batch Folder: C:\Agilent\ICPMH\1\DATA\P7090121 MS.b\
Analysis File: P7090121 MS.batch.bin
DA Date-Time: 2021-09-01 16:11:15
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	002CALB.d	S00	2021-09-01 11:58:32
2	003CALS.d	S02	2021-09-01 12:01:39
3	004CALS.d	S03	2021-09-01 12:04:47
4	005CALS.d	S04	2021-09-01 12:07:54
5	006CALS.d	S05	2021-09-01 12:11:01
6	007CALS.d	S06	2021-09-01 12:14:03
7	008CALS.d	S07	2021-09-01 12:17:06
8	009CALS.d	S08	2021-09-01 12:20:03

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	53.71	0.0000	P	5.6
2	☐	1.000	1.095	1553.81	0.0007	P	8.6
3	☐	50.000	52.902	72570.60	0.0339	P	1.0
4	☐	125.000	127.813	174451.14	0.0819	P	0.6
5	☐	250.000	256.628	343881.19	0.1643	P	1.4
6	☐	500.000	503.296	629956.65	0.3223	P	1.3
7	☐	1000.000	996.198	1200974.43	0.6379	P	0.4
8	☐			268.52	0.0001	P	12.3

$$y = 6.4030\text{E-}004 * x + 2.5537\text{E-}005$$

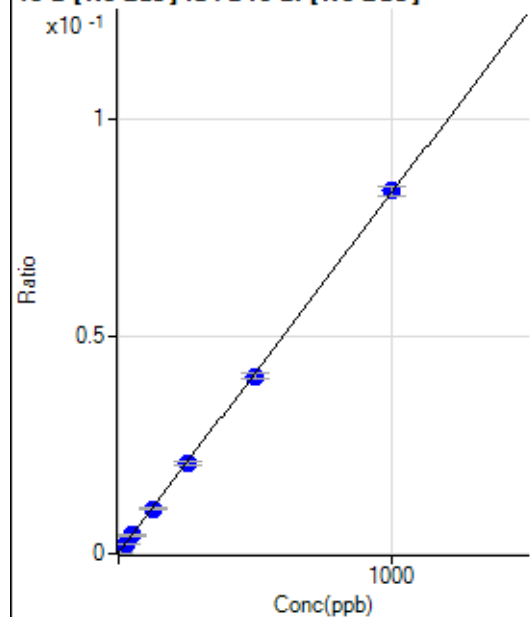
$$R = 1.0000$$

$$DL = 0.006689$$

$$BEC = 0.03988$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	430.57	0.0002	P	19.1
2	☐	25.000	23.562	4617.49	0.0022	P	6.3
3	☐	50.000	49.088	9155.75	0.0043	P	4.0
4	☐	125.000	122.276	22041.40	0.0103	P	2.3
5	☐	250.000	249.267	43646.82	0.0209	P	5.4
6	☐	500.000	490.586	79879.88	0.0409	P	3.8
7	☐	1000.000	1005.312	157284.18	0.0835	P	2.6
8	☐			6209.75	0.0034	P	10.9

$$y = 8.2902\text{E-}005 * x + 2.0470\text{E-}004$$

$$R = 0.9999$$

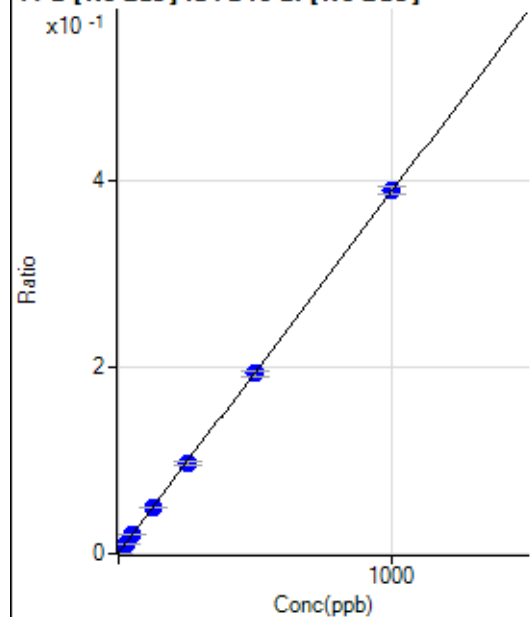
$$DL = 1.417$$

$$BEC = 2.469$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1916.84	0.0009	P	2.0
2	☐	25.000	23.478	21404.44	0.0100	P	3.0
3	☐	50.000	50.870	44159.33	0.0206	P	2.3
4	☐	125.000	125.410	105477.03	0.0495	P	1.8
5	☐	250.000	248.704	203476.10	0.0973	P	3.3
6	☐	500.000	496.411	377617.98	0.1932	P	2.9
7	☐	1000.000	1002.061	732551.89	0.3891	P	2.1
8	☐			29058.96	0.0160	P	9.4

$$y = 3.8739E-004 * x + 9.1153E-004$$

$$R = 1.0000$$

$$DL = 0.139$$

$$BEC = 2.353$$

Weight: <None>

Min Conc: 0

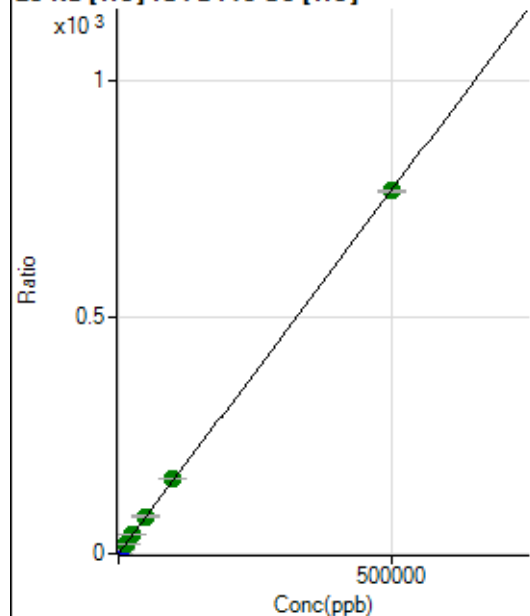
12 C [No Gas] No available calibration points



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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	7399.22	0.0283	P	2.2
2	☐	500.000	524.376	223775.25	0.8340	P	0.7
3	☐	5000.000	5299.883	2151896.51	8.1714	P	0.2
4	☐	12500.000	12928.385	5040886.61	19.8923	A	1.2
5	☐	25000.000	25831.691	9481965.06	39.7179	A	0.9
6	☐	50000.000	51570.622	17962957.35	79.2649	A	0.5
7	☐	100000.00	102730.99	35073675.09	157.8713	A	1.0
8	☐	500000.00	499241.42	175391684.4	767.0973	A	0.5

$$y = 0.0015 * x + 0.0283$$

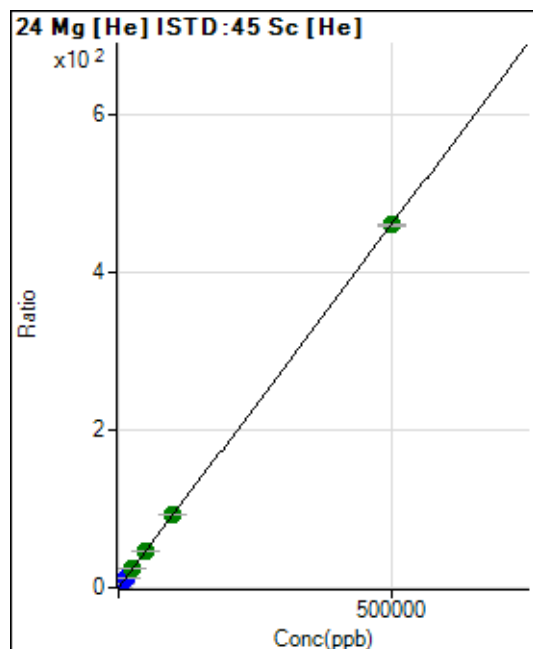
$$R = 1.0000$$

$$DL = 1.236$$

$$BEC = 18.4$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	355.57	0.0014	P	17.9
2	☐	500.000	514.271	127262.87	0.4743	P	0.6
3	☐	5000.000	5270.183	1276645.47	4.8478	P	0.1
4	☐	12500.000	13181.995	3072288.85	12.1235	P	0.6
5	☐	25000.000	25789.849	5662515.71	23.7176	A	0.2
6	☐	50000.000	51312.444	10693762.30	47.1881	A	0.3
7	☐	100000.00	101340.62	20704496.12	93.1938	A	1.0
8	☐	500000.00	499541.37	105032212.0	459.3775	A	0.3

$$y = 9.1960\text{E-}004 * x + 0.0014$$

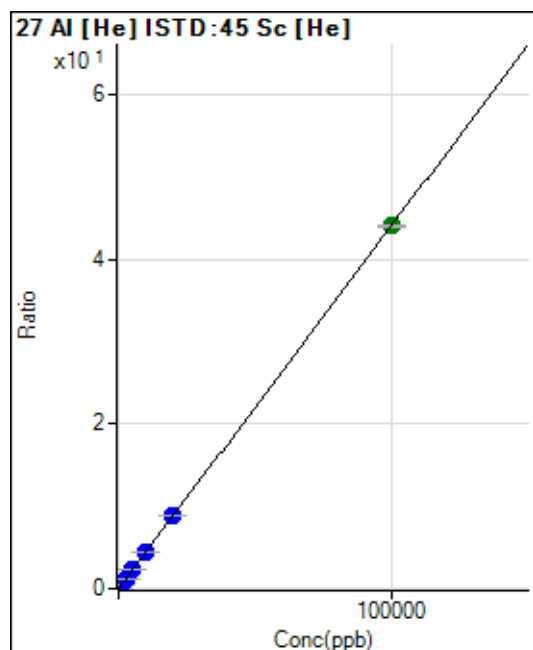
$$R = 1.0000$$

$$DL = 0.7939$$

$$BEC = 1.478$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	530.58	0.0020	P	3.7
2	☐	20.000	19.306	2825.33	0.0105	P	10.0
3	☐	1000.000	1031.715	120223.34	0.4565	P	0.4
4	☐	2500.000	2586.757	289298.86	1.1415	P	0.5
5	☐	5000.000	5127.186	539731.84	2.2606	P	0.1
6	☐	10000.000	10197.095	1018454.86	4.4940	P	0.5
7	☐	20000.000	20130.352	1970613.45	8.8698	P	0.4
8	☐	100000.00	99945.375	10066891.20	44.0298	A	0.8

$$y = 4.4052\text{E-}004 * x + 0.0020$$

$$R = 1.0000$$

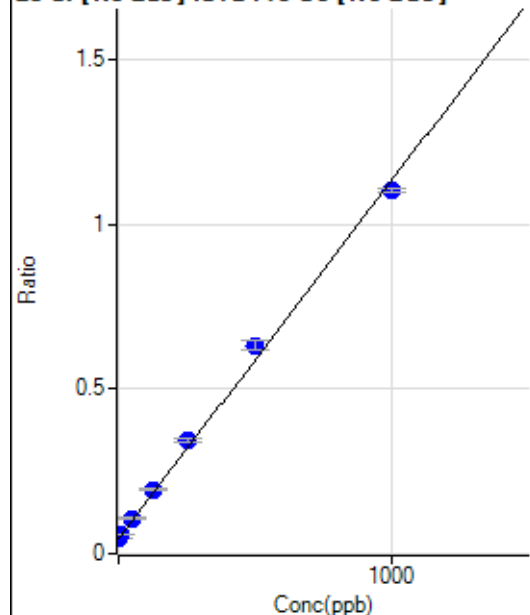
$$DL = 0.5081$$

$$BEC = 4.603$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	170679.66	0.0455	P	0.9
2	☐	10.000	10.054	210229.16	0.0564	P	0.9
3	☐	50.000	57.398	403987.74	0.1079	P	2.6
4	☐	125.000	137.345	704823.68	0.1948	P	1.7
5	☐	250.000	274.952	1197817.02	0.3443	P	3.2
6	☐	500.000	540.474	2060554.08	0.6329	P	4.1
7	☐	1000.000	971.612	3469235.54	1.1015	P	1.1
8	☐			312420.80	0.1002	P	1.7

$$y = 0.0011 * x + 0.0455$$

R = 0.9984

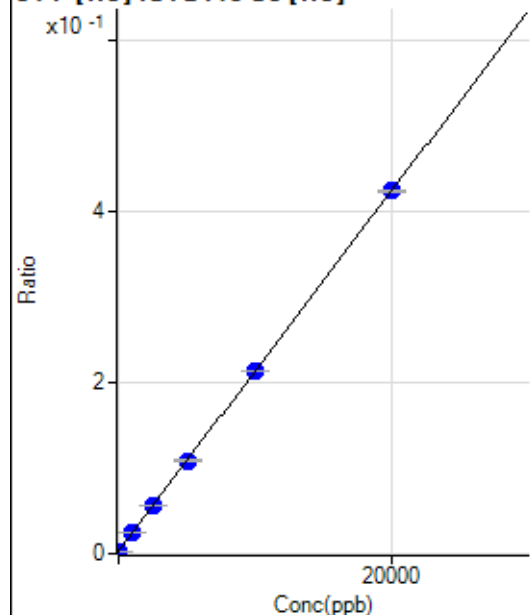
DL = 1.097

BEC = 41.88

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	8.511	830.60	0.0032	P	0.8
2	☐	0.000	-8.511	755.60	0.0028	P	7.2
3	☐	1000.000	1050.255	6609.99	0.0251	P	4.9
4	☐	2500.000	2524.514	14226.54	0.0561	P	2.7
5	☐	5000.000	5019.131	25939.66	0.1087	P	2.4
6	☐	10000.000	9989.023	48334.24	0.2133	P	0.8
7	☐	20000.000	19995.129	94184.48	0.4239	P	0.4
8	☐			661.15	0.0029	P	2.4

$$y = 2.1052E-005 * x + 0.0030$$

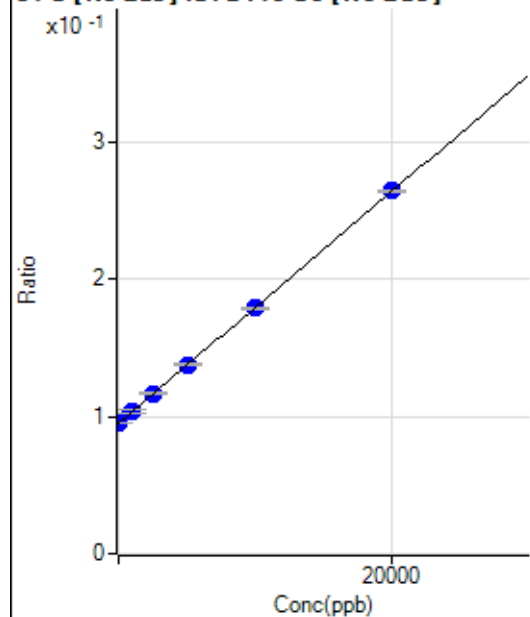
R = 1.0000

DL = 16.38

BEC = 142.3

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	1.605	356930.40	0.0952	P	0.5
2	☐	0.000	-1.605	354411.17	0.0951	P	1.0
3	☐	1000.000	1027.980	388745.63	0.1039	P	1.9
4	☐	2500.000	2523.196	421406.77	0.1165	P	1.3
5	☐	5000.000	5061.496	479873.91	0.1379	P	0.5
6	☐	10000.000	9902.145	582443.76	0.1789	P	1.2
7	☐	20000.000	20029.255	832954.07	0.2645	P	0.2
8	☐			279338.98	0.0897	P	2.7

$$y = 8.4522\text{E-}006 * x + 0.0952$$

$$R = 1.0000$$

$$DL = 257.7$$

$$BEC = 1.126\text{E}+04$$

Weight: <None>

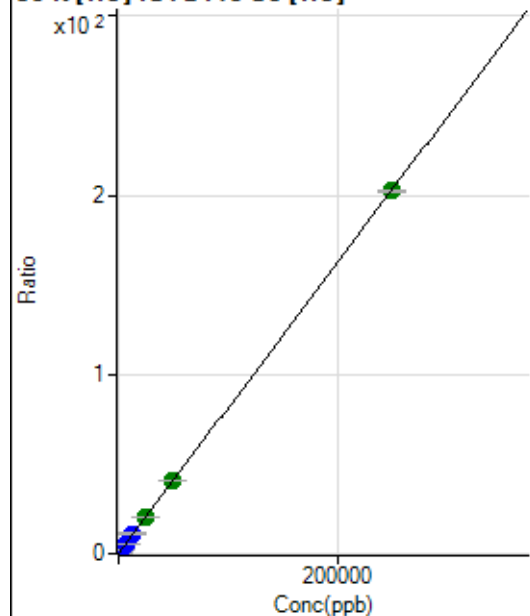
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	31121.90	0.1189	P	0.9
2	☐	500.000	541.112	149515.27	0.5572	P	0.6
3	☐	2500.000	2802.991	629178.79	2.3891	P	0.2
4	☐	6250.000	6949.903	1456593.86	5.7478	P	0.7
5	☐	12500.000	13748.958	2687255.33	11.2545	P	1.3
6	☐	25000.000	25647.208	4734378.27	20.8912	A	0.1
7	☐	50000.000	50491.826	9112097.60	41.0134	A	0.1
8	☐	250000.00	249753.85	46276829.85	202.3999	A	0.3

$$y = 8.0992E-004 * x + 0.1189$$

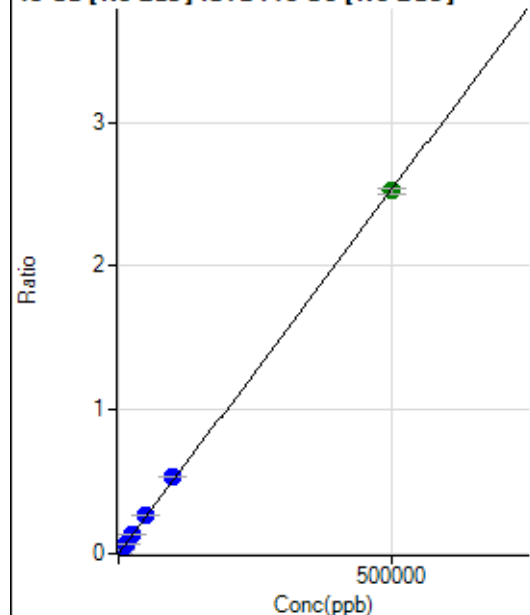
$$R = 1.0000$$

$$DL = 4.065$$

$$BEC = 146.9$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	286.12	0.0001	P	9.7
2	☐	500.000	521.352	10109.20	0.0027	P	1.1
3	☐	5000.000	5303.780	100718.96	0.0269	P	0.7
4	☐	12500.000	13323.005	244067.03	0.0675	P	1.1
5	☐	25000.000	26499.465	466547.44	0.1341	P	0.3
6	☐	50000.000	52377.953	862987.35	0.2650	P	0.9
7	☐	100000.00	105970.48	1688510.74	0.5361	P	0.5
8	☐	500000.00	498469.50	7855538.72	2.5214	A	1.9

$$y = 5.0582\text{E-}006 * x + 7.6315\text{E-}005$$

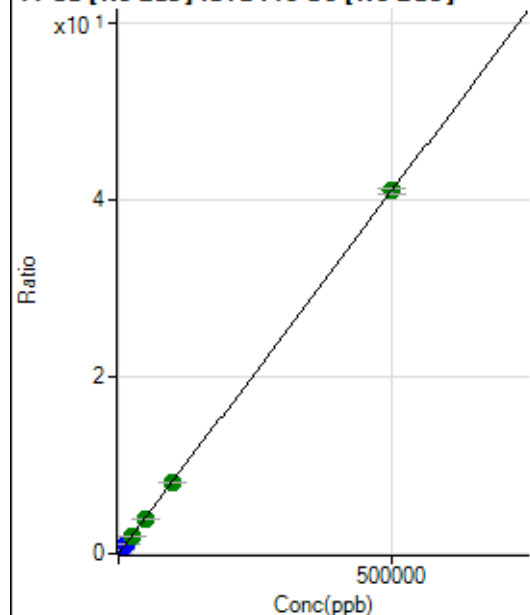
$$R = 0.9999$$

$$DL = 4.401$$

$$BEC = 15.09$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	6846.20	0.0018	P	3.2
2	☐	500.000	517.451	164484.98	0.0442	P	1.2
3	☐	5000.000	5200.828	1599691.99	0.4273	P	0.9
4	☐	12500.000	13039.557	3865905.25	1.0686	P	1.1
5	☐	25000.000	24366.770	6941262.57	1.9953	A	0.4
6	☐	50000.000	48320.823	12878979.46	3.9551	A	0.4
7	☐	100000.00	98202.598	25311042.40	8.0361	A	0.3
8	☐	500000.00	500543.54	127591312.5	40.9528	A	1.8

$$y = 8.1813\text{E-}005 * x + 0.0018$$

$$R = 1.0000$$

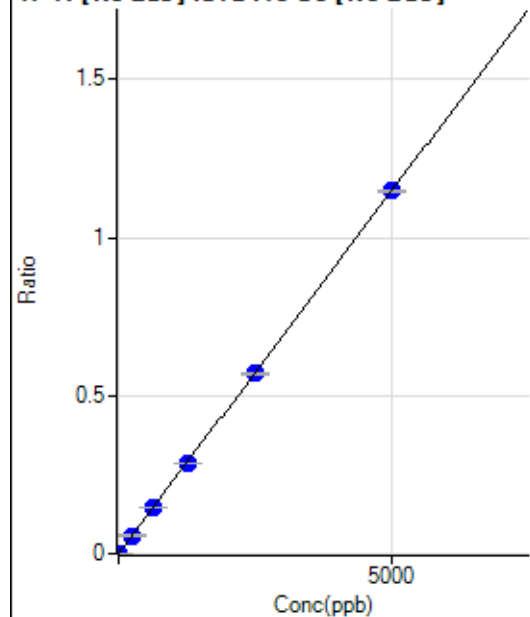
$$DL = 2.116$$

$$BEC = 22.32$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	42.9
2	☐	5.000	5.024	4353.52	0.0012	P	5.4
3	☐	250.000	251.765	216349.80	0.0578	P	0.8
4	☐	625.000	635.016	527227.73	0.1457	P	1.3
5	☐	1250.000	1258.620	1004818.35	0.2888	P	0.1
6	☐	2500.000	2488.075	1859249.21	0.5710	P	0.8
7	☐	5000.000	5002.467	3615863.75	1.1480	P	0.4
8	☐			658.37	0.0002	P	5.8

$$y = 2.2948\text{E-}004 * x + 1.6255\text{E-}005$$

$$R = 1.0000$$

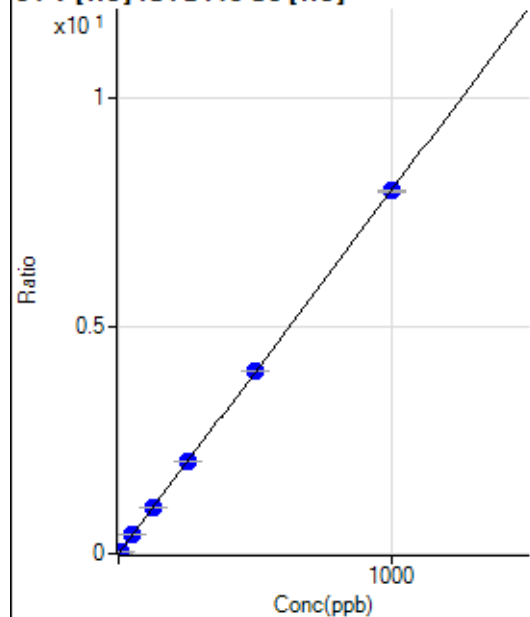
$$DL = 0.09111$$

$$BEC = 0.07083$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	7.78	0.0000	P	25.0
2	☐	5.000	5.167	11075.36	0.0413	P	2.7
3	☐	50.000	50.869	106923.37	0.4060	P	0.4
4	☐	125.000	126.992	256863.00	1.0136	P	0.3
5	☐	250.000	252.909	481963.29	2.0185	P	1.0
6	☐	500.000	500.849	905899.17	3.9974	P	0.1
7	☐	1000.000	998.555	1770606.22	7.9697	P	0.8
8	☐			274.45	0.0012	P	4.5

$$y = 0.0080 * x + 2.9746\text{E-}005$$

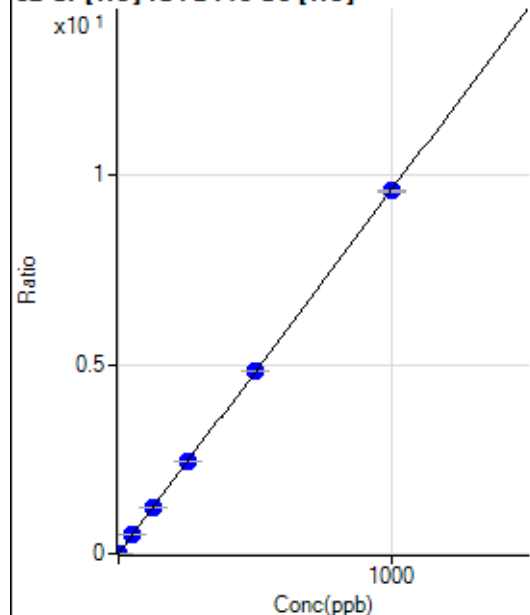
$$R = 1.0000$$

$$DL = 0.002795$$

$$BEC = 0.003727$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	824.48	0.0032	P	5.0
2	☐	2.000	2.068	6176.91	0.0230	P	2.7
3	☐	50.000	51.163	130302.31	0.4948	P	0.8
4	☐	125.000	127.676	311706.01	1.2300	P	0.5
5	☐	250.000	254.214	584001.29	2.4459	P	0.8
6	☐	500.000	501.725	1093284.63	4.8243	P	0.4
7	☐	1000.000	997.691	2130667.52	9.5901	P	0.4
8	☐			14147.95	0.0619	P	1.7

$$y = 0.0096 * x + 0.0032$$

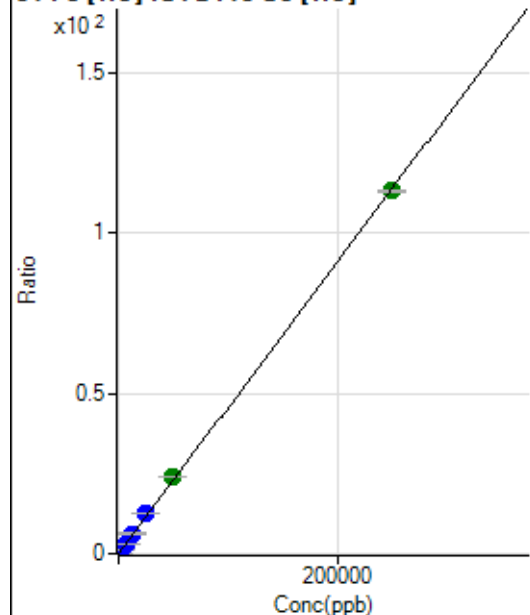
$$R = 1.0000$$

$$DL = 0.04939$$

$$BEC = 0.3279$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	844.23	0.0032	P	17.1
2	☐	50.000	55.658	7639.87	0.0285	P	1.0
3	☐	2500.000	2798.152	335085.81	1.2724	P	0.4
4	☐	6250.000	7011.269	806759.50	3.1834	P	0.5
5	☐	12500.000	13847.084	1500391.24	6.2840	P	0.7
6	☐	25000.000	27303.855	2807340.84	12.3878	P	0.4
7	☐	50000.000	53034.419	5345168.84	24.0588	A	0.3
8	☐	250000.00	249073.36	25831485.16	112.9789	A	0.6

$$y = 4.5358E-004 * x + 0.0032$$

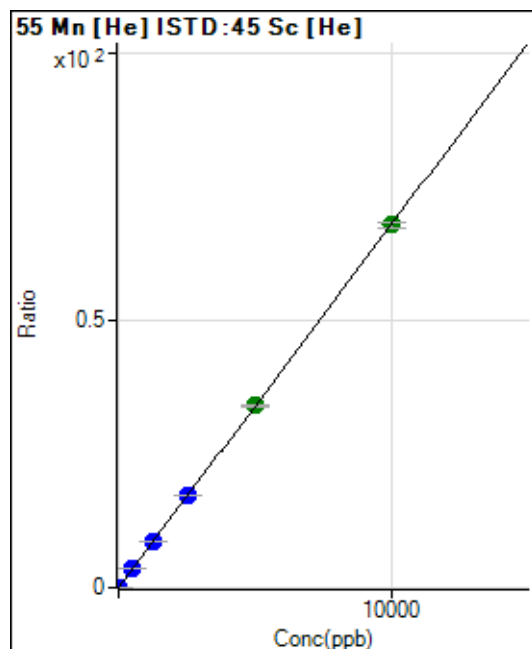
$$R = 0.9999$$

$$DL = 3.65$$

$$BEC = 7.112$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	82.22	0.0003	P	32.4
2	☐	1.000	1.023	1949.04	0.0073	P	2.9
3	☐	500.000	508.116	909413.05	3.4533	P	0.3
4	☐	1250.000	1271.217	2189290.66	8.6390	P	0.6
5	☐	2500.000	2525.821	4098107.54	17.1648	P	0.2
6	☐	5000.000	5015.047	7723451.97	34.0806	A	0.8
7	☐	10000.000	9982.964	15071626.30	67.8407	A	1.5
8	☐			14380.44	0.0629	P	1.0

$$y = 0.0068 * x + 3.1412E-004$$

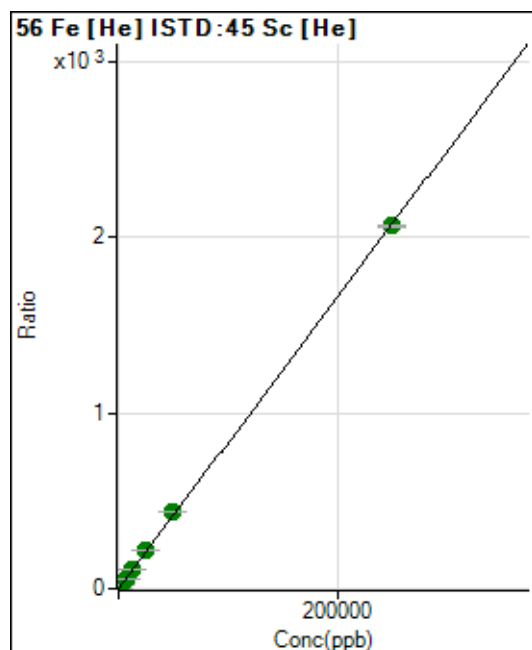
$$R = 1.0000$$

$$DL = 0.04493$$

$$BEC = 0.04622$$

Weight: <None>

Min Conc: 0



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3972.82	0.0152	P	2.7
2	☐	50.000	55.429	127414.78	0.4748	P	0.3
3	☐	2500.000	2639.435	5768001.40	21.9029	A	0.4
4	☐	6250.000	6663.735	14007671.38	55.2746	A	0.5
5	☐	12500.000	13262.527	26261375.59	109.9955	A	0.2
6	☐	25000.000	26265.426	49362935.36	217.8229	A	0.5
7	☐	50000.000	52627.003	96960291.06	436.4279	A	1.0
8	☐	250000.00	249298.19	472675477.2	2,067.335	A	0.8

$$y = 0.0083 * x + 0.0152$$

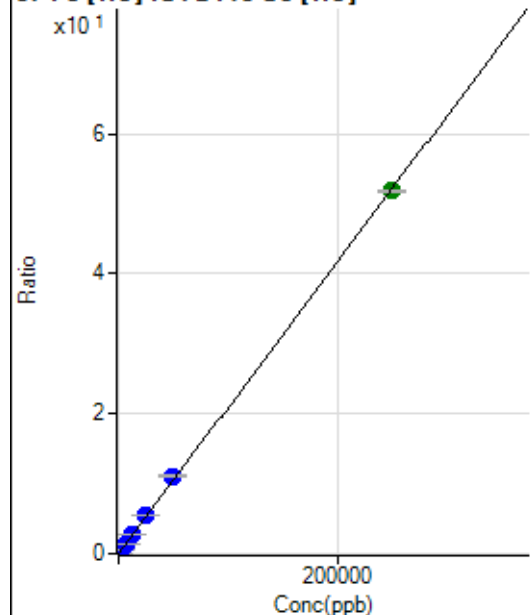
$$R = 0.9999$$

$$DL = 0.148$$

$$BEC = 1.831$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	192.60	0.0007	P	9.3
2	☐	50.000	55.062	3272.65	0.0122	P	3.9
3	☐	2500.000	2720.785	149307.19	0.5670	P	0.6
4	☐	6250.000	6834.344	360612.30	1.4230	P	1.1
5	☐	12500.000	13507.941	671342.67	2.8118	P	0.7
6	☐	25000.000	26798.175	1264007.06	5.5776	P	0.2
7	☐	50000.000	53354.969	2467035.53	11.1043	P	0.6
8	☐	250000.00	249081.97	11851808.95	51.8365	A	0.8

$$y = 2.0811\text{E-}004 * x + 7.3606\text{E-}004$$

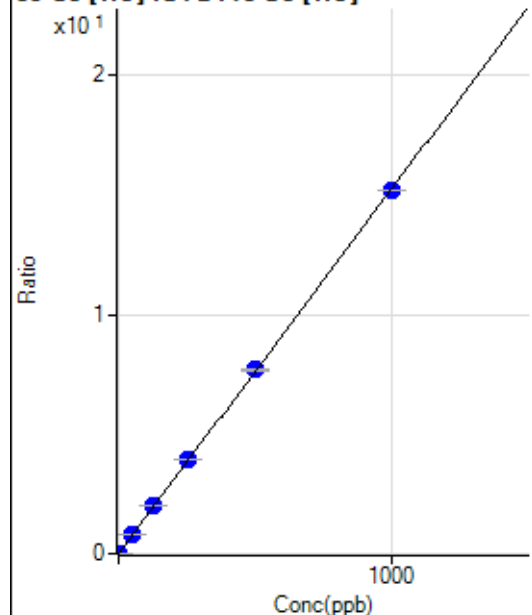
$$R = 0.9999$$

$$DL = 0.9843$$

$$BEC = 3.537$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.78	0.0002	P	17.3
2	☐	1.000	1.014	4196.19	0.0156	P	4.6
3	☐	50.000	52.489	210740.80	0.8002	P	0.3
4	☐	125.000	130.580	504427.62	1.9905	P	0.7
5	☐	250.000	256.834	934678.77	3.9149	P	0.5
6	☐	500.000	504.438	1742455.03	7.6889	P	0.4
7	☐	1000.000	995.251	3370347.35	15.1699	P	0.1
8	☐			5511.08	0.0241	P	1.6

$$y = 0.0152 * x + 1.8255\text{E-}004$$

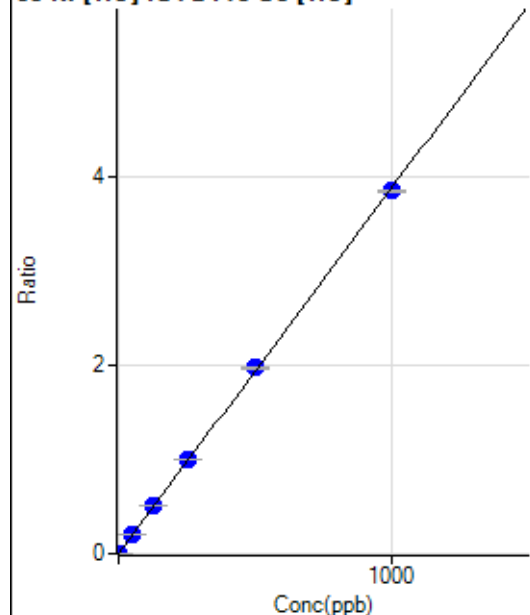
$$R = 1.0000$$

$$DL = 0.006216$$

$$BEC = 0.01198$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	172.23	0.0007	P	11.4
2	☐	1.000	1.142	1362.30	0.0051	P	4.8
3	☐	50.000	53.027	54202.85	0.2058	P	0.9
4	☐	125.000	131.811	129412.23	0.5107	P	0.3
5	☐	250.000	258.334	238806.70	1.0002	P	0.6
6	☐	500.000	508.106	445669.03	1.9666	P	0.7
7	☐	1000.000	992.861	853628.13	3.8422	P	0.2
8	☐			4270.67	0.0187	P	1.9

$$y = 0.0039 * x + 6.5807E-004$$

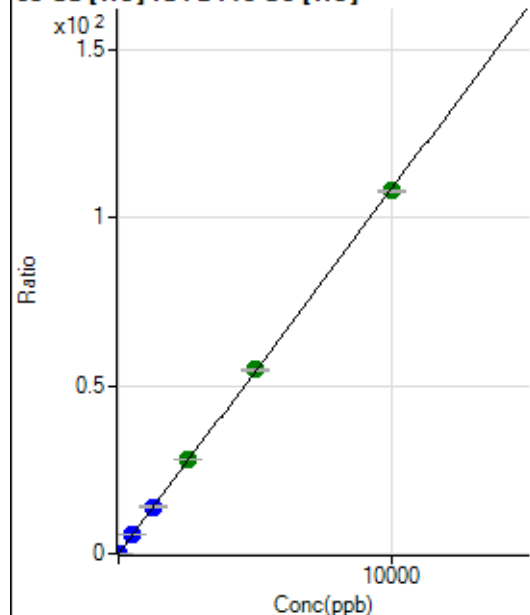
$$R = 0.9999$$

$$DL = 0.05818$$

$$BEC = 0.1701$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	561.13	0.0021	P	9.7
2	☐	2.000	1.959	6283.62	0.0234	P	2.2
3	☐	500.000	519.463	1486501.56	5.6447	P	0.2
4	☐	1250.000	1290.063	3551660.50	14.0152	P	0.6
5	☐	2500.000	2582.447	6697881.36	28.0534	A	0.2
6	☐	5000.000	5048.403	12427569.12	54.8392	A	1.0
7	☐	10000.000	9949.205	24010271.31	108.0731	A	0.8
8	☐			8145.66	0.0356	P	2.7

$$y = 0.0109 * x + 0.0021$$

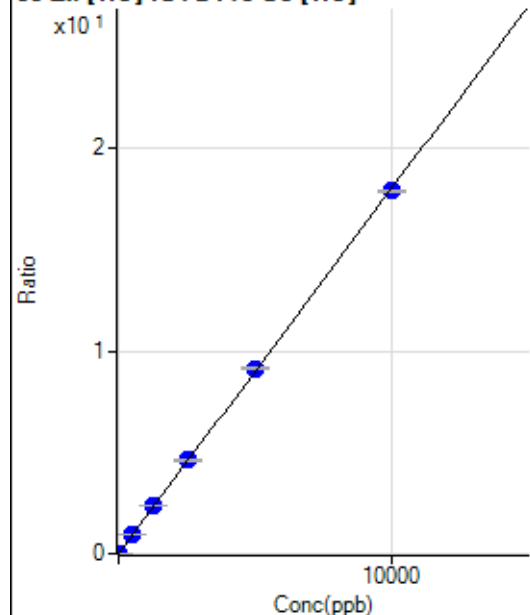
$$R = 0.9999$$

$$DL = 0.05719$$

$$BEC = 0.1974$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	357.79	0.0014	P	3.6
2	☐	2.000	2.275	1466.76	0.0055	P	6.2
3	☐	500.000	516.046	245268.89	0.9314	P	0.8
4	☐	1250.000	1297.898	593094.85	2.3404	P	0.7
5	☐	2500.000	2564.111	1103658.77	4.6224	P	0.8
6	☐	5000.000	5074.940	2072977.14	9.1473	P	0.6
7	☐	10000.000	9939.712	3980099.11	17.9145	P	0.3
8	☐			9811.14	0.0429	P	1.0

$$y = 0.0018 * x + 0.0014$$

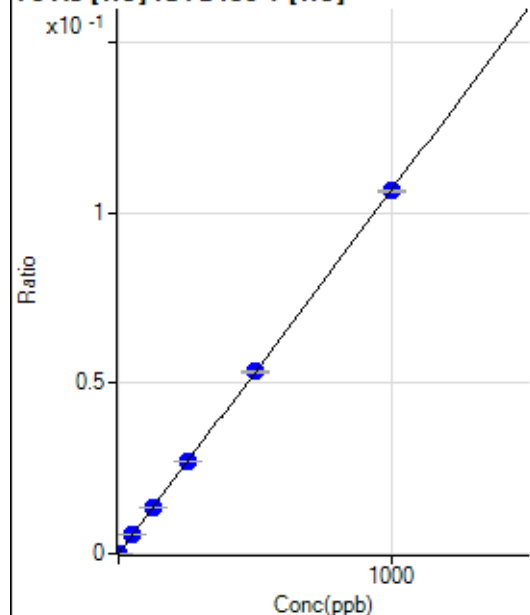
$$R = 0.9999$$

$$DL = 0.0825$$

$$BEC = 0.7587$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	6.79	0.0000	P	31.8
2	☐	1.000	1.033	296.30	0.0001	P	2.7
3	☐	50.000	52.589	14540.64	0.0056	P	0.4
4	☐	125.000	129.321	34415.20	0.0138	P	0.2
5	☐	250.000	253.442	64272.45	0.0271	P	0.9
6	☐	500.000	500.814	122258.43	0.0535	P	0.6
7	☐	1000.000	998.063	238130.79	0.1066	P	0.2
8	☐			76.55	0.0000	P	15.2

$$y = 1.0678E-004 * x + 2.6436E-006$$

$$R = 1.0000$$

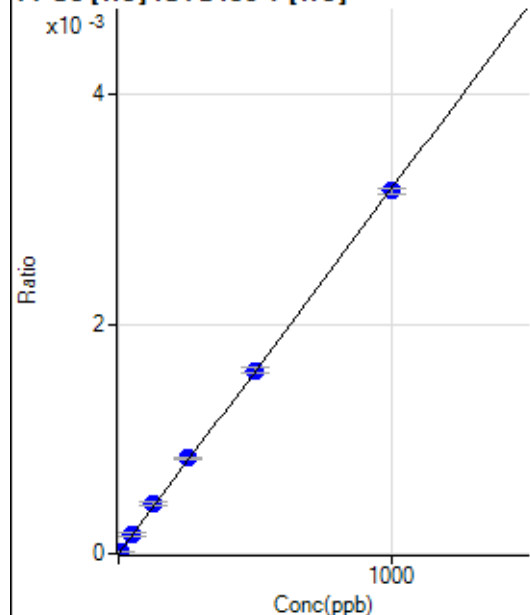
$$DL = 0.02361$$

$$BEC = 0.02476$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	6.673	55.56	0.0000	P	25.4
3	☐	50.000	52.158	428.90	0.0002	P	17.8
4	☐	125.000	136.684	1082.27	0.0004	P	7.4
5	☐	250.000	261.686	1974.60	0.0008	P	2.2
6	☐	500.000	503.032	3653.83	0.0016	P	3.1
7	☐	1000.000	993.986	7056.22	0.0032	P	1.5
8	☐			1.11	0.0000	P	173.

$$y = 3.1773\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9999$$

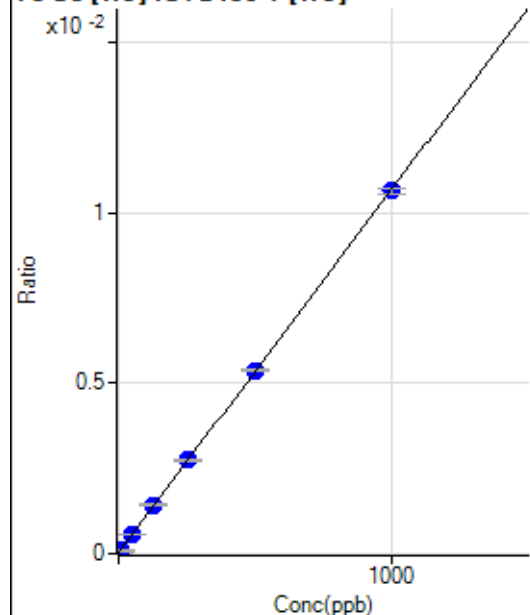
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	72.22	0.0000	P	10.9
2	☐	5.000	5.569	229.02	0.0001	P	14.8
3	☐	50.000	51.280	1485.89	0.0006	P	3.6
4	☐	125.000	131.689	3564.04	0.0014	P	1.2
5	☐	250.000	254.252	6495.31	0.0027	P	0.9
6	☐	500.000	502.881	12305.24	0.0054	P	0.6
7	☐	1000.000	996.594	23771.90	0.0106	P	1.3
8	☐			74.69	0.0000	P	18.2

$$y = 1.0648\text{E-}005 * x + 2.8081\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.8635$$

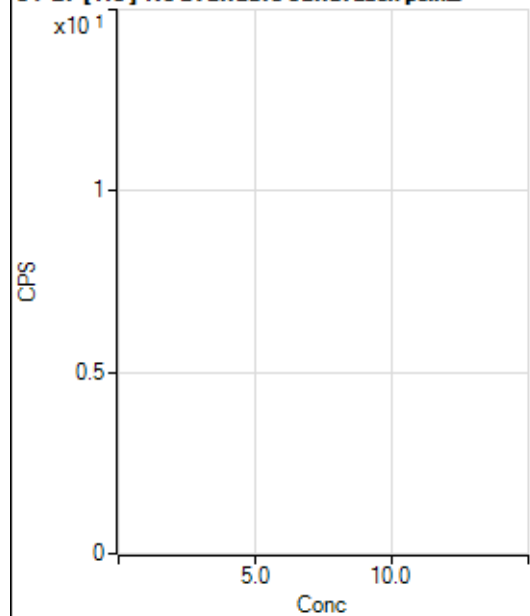
$$BEC = 2.637$$

Weight: <None>

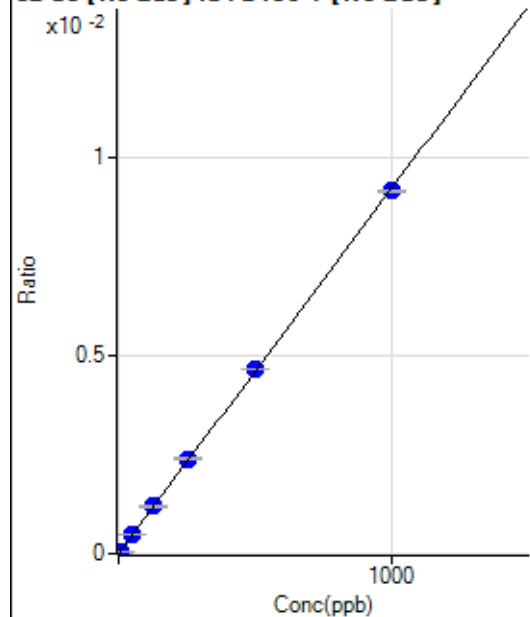
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7568.87		P	5.2
2	☐			7610.55		P	5.4
3	☐			7413.15		P	1.6
4	☐			7135.33		P	5.1
5	☐			6996.33		P	9.2
6	☐			6051.43		P	3.1
7	☐			5804.10		P	3.5
8	☐			5904.19		P	8.0

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20.02		P	NaN
2	☐			46.71		P	32.7
3	☐			40.04		P	25.0
4	☐			43.38		P	26.6
5	☐			43.38		P	13.3
6	☐			30.03		P	66.7
7	☐			36.70		P	15.7
8	☐			43.38		P	26.6

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.71	0.0000	P	111.
2	☐	5.000	4.396	511.14	0.0000	P	13.4
3	☐	50.000	52.964	5970.22	0.0005	P	2.5
4	☐	125.000	129.094	14210.79	0.0012	P	1.5
5	☐	250.000	259.899	27861.66	0.0024	P	1.5
6	☐	500.000	505.839	51732.74	0.0047	P	0.9
7	☐	1000.000	993.949	99910.57	0.0092	P	0.4
8	☐			22.50	0.0000	P	185.

$$y = 9.2323E-006 * x + 1.2884E-006$$

R = 0.9999

DL = 0.4667

BEC = 0.1396

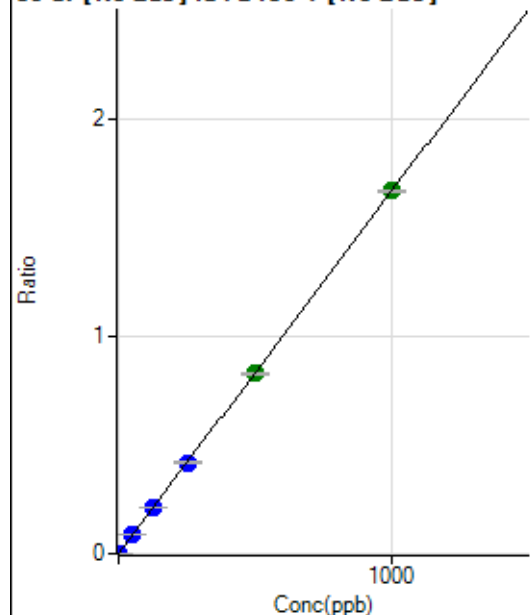
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			526.68		P	4.4
2	☐			566.68		P	6.4
3	☐			530.02		P	11.1
4	☐			518.91		P	13.2
5	☐			510.01		P	9.6
6	☐			447.79		P	6.0
7	☐			443.34		P	12.8
8	☐			432.24		P	1.2

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1125.08	0.0001	P	6.1
2	☐	1.000	0.108	3331.03	0.0003	P	8.0
3	☐	50.000	50.974	1038166.95	0.0853	P	0.6
4	☐	125.000	126.109	2510859.95	0.2108	P	0.8
5	☐	250.000	251.631	4880428.01	0.4205	P	0.9
6	☐	500.000	496.236	9183243.09	0.8292	A	0.1
7	☐	1000.000	1001.288	18213547.11	1.6731	A	0.6
8	☐			5184.40	0.0005	P	1.2

$$y = 0.0017 * x + 9.2645E-005$$

$$R = 1.0000$$

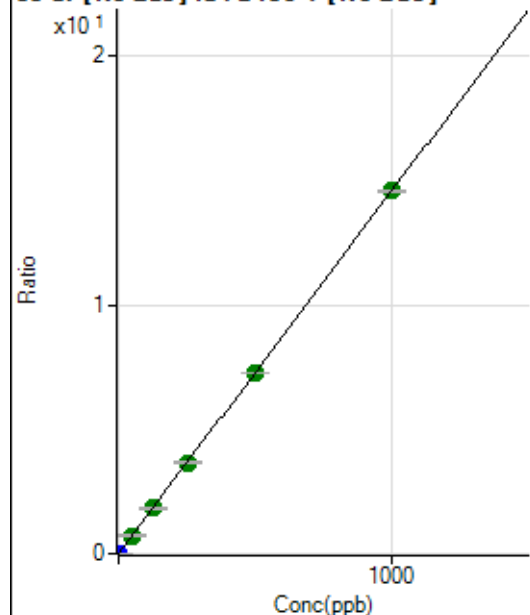
$$DL = 0.0102$$

$$BEC = 0.05545$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	997.29	0.0001	P	5.9
2	☐	1.000	0.114	21213.29	0.0017	P	0.7
3	☐	50.000	50.218	8905191.86	0.7314	A	0.8
4	☐	125.000	125.404	21751748.06	1.8263	A	1.5
5	☐	250.000	251.253	42463989.14	3.6589	A	0.9
6	☐	500.000	497.766	80275465.68	7.2487	A	0.5
7	☐	1000.000	1000.743	158647345.2	14.5732	A	0.2
8	☐			41532.67	0.0038	P	3.5

$$y = 0.0146 * x + 8.2055E-005$$

$$R = 1.0000$$

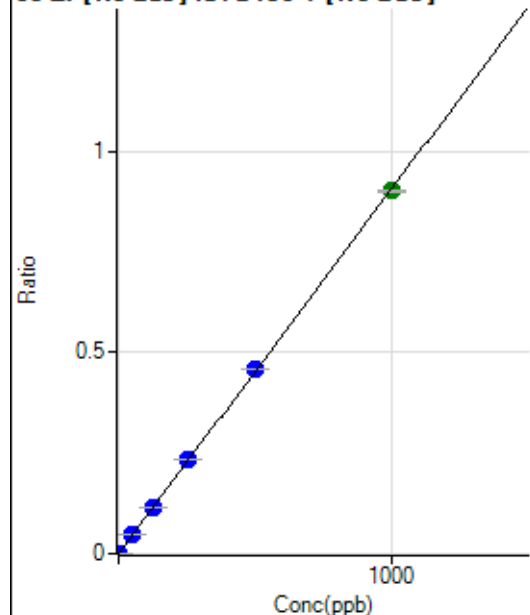
$$DL = 0.001003$$

$$BEC = 0.005635$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	638.92	0.0001	P	17.0
2	☐	1.000	0.955	11218.56	0.0009	P	3.6
3	☐	50.000	51.235	566213.77	0.0465	P	0.9
4	☐	125.000	128.194	1384906.43	0.1163	P	1.0
5	☐	250.000	256.688	2701410.11	0.2328	P	0.5
6	☐	500.000	505.458	5075384.53	0.4583	P	0.4
7	☐	1000.000	995.138	9821992.75	0.9022	A	0.6
8	☐			2316.91	0.0002	P	5.1

$$y = 9.0659\text{E-}004 * x + 5.2541\text{E-}005$$

$$R = 1.0000$$

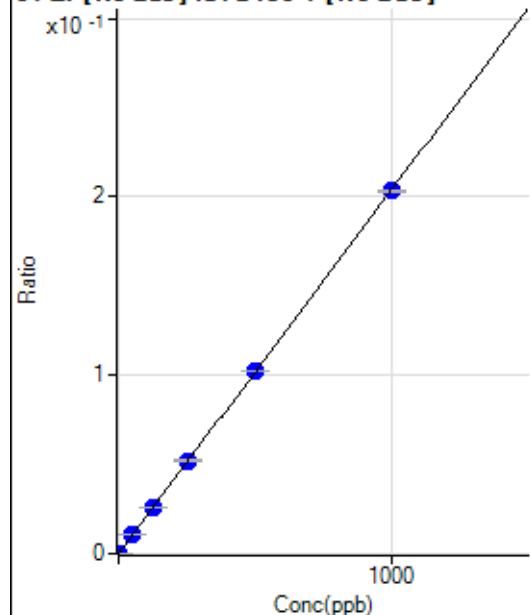
$$DL = 0.02953$$

$$BEC = 0.05795$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	136.11	0.0000	P	17.2
2	☐	1.000	0.921	2428.05	0.0002	P	5.9
3	☐	50.000	50.973	126632.74	0.0104	P	0.9
4	☐	125.000	127.098	308663.53	0.0259	P	1.4
5	☐	250.000	254.854	602891.11	0.0520	P	1.5
6	☐	500.000	501.861	1132842.13	0.1023	P	0.5
7	☐	1000.000	997.545	2213332.95	0.2033	P	0.2
8	☐			444.47	0.0000	P	13.2

$$y = 2.0381\text{E-}004 * x + 1.1197\text{E-}005$$

$$R = 1.0000$$

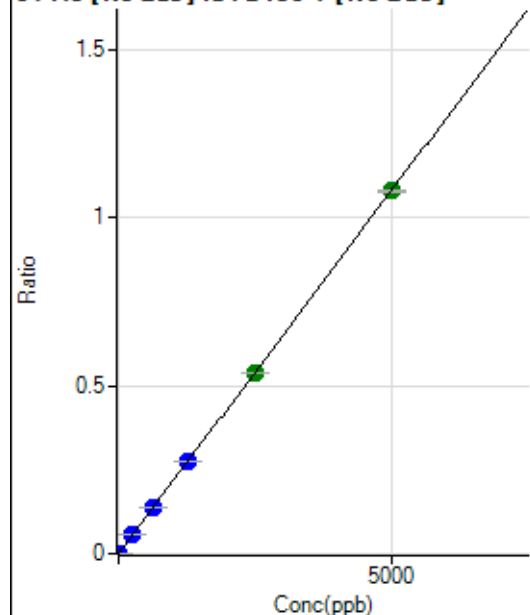
$$DL = 0.02837$$

$$BEC = 0.05494$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	194.45	0.0000	P	30.8
2	☐	5.000	5.235	14037.85	0.0011	P	2.9
3	☐	250.000	256.791	676954.81	0.0556	P	0.5
4	☐	625.000	639.862	1649868.71	0.1385	P	0.1
5	☐	1250.000	1270.370	3191208.32	0.2750	P	1.0
6	☐	2500.000	2495.254	5981281.12	0.5401	A	0.3
7	☐	5000.000	4995.083	11769717.28	1.0812	A	0.4
8	☐			3942.32	0.0004	P	11.7

$$y = 2.1644\text{E-}004 * x + 1.6013\text{E-}005$$

$$R = 1.0000$$

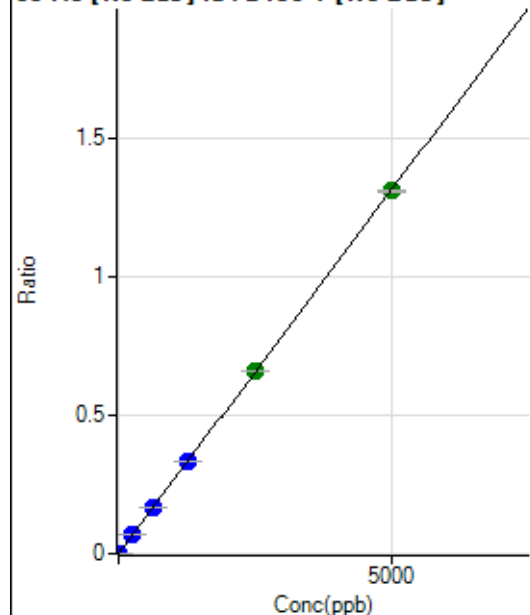
$$DL = 0.06833$$

$$BEC = 0.07398$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	33.34	0.0000	P	65.1
2	☐	5.000	5.158	16612.81	0.0014	P	2.8
3	☐	250.000	256.077	820397.48	0.0674	P	0.5
4	☐	625.000	642.521	2013520.03	0.1691	P	1.3
5	☐	1250.000	1274.026	3890216.36	0.3352	P	0.7
6	☐	2500.000	2509.352	7311560.84	0.6602	A	0.6
7	☐	5000.000	4986.823	14283137.13	1.3120	A	0.4
8	☐			5704.05	0.0005	P	3.3

$$y = 2.6310\text{E-}004 * x + 2.7319\text{E-}006$$

$$R = 1.0000$$

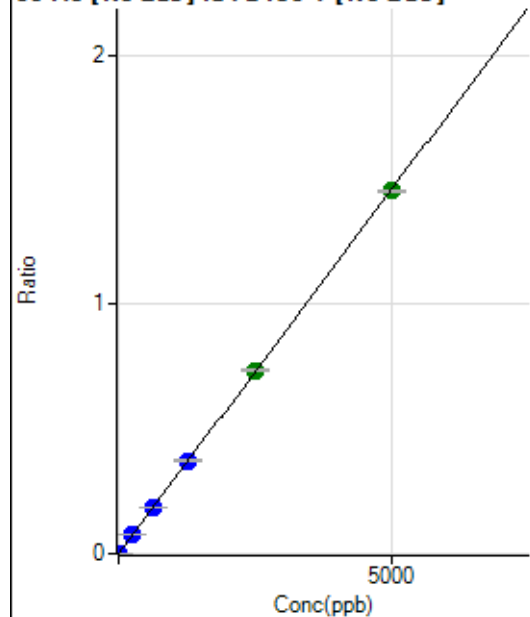
$$DL = 0.02026$$

$$BEC = 0.01038$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	97.22	0.0000	P	26.9
2	☐	5.000	5.215	18718.17	0.0015	P	0.8
3	☐	250.000	257.219	915647.39	0.0752	P	0.3
4	☐	625.000	642.105	2235785.79	0.1877	P	0.8
5	☐	1250.000	1278.026	4335833.30	0.3736	P	0.7
6	☐	2500.000	2516.991	8148259.99	0.7358	A	0.7
7	☐	5000.000	4981.999	15853784.56	1.4563	A	0.5
8	☐			7015.81	0.0006	P	6.2

$$y = 2.9232\text{E-}004 * x + 8.0143\text{E-}006$$

$$R = 1.0000$$

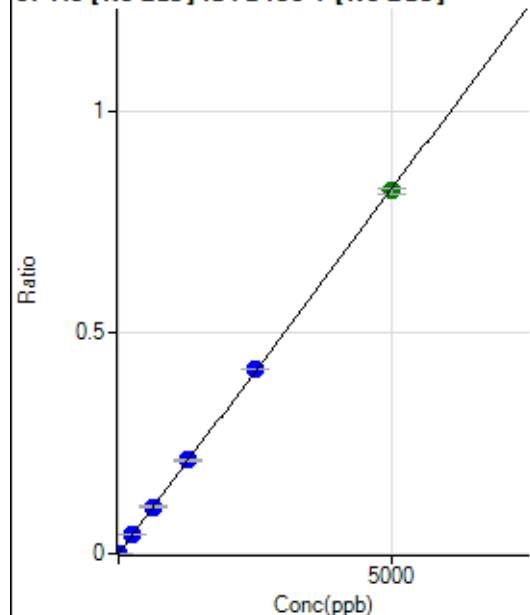
$$DL = 0.02216$$

$$BEC = 0.02742$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	16.67	0.0000	P	50.6
2	☐	5.000	5.343	10754.29	0.0009	P	2.0
3	☐	250.000	259.114	518979.71	0.0426	P	1.0
4	☐	625.000	644.246	1262215.96	0.1060	P	1.3
5	☐	1250.000	1280.594	2444582.30	0.2106	P	1.1
6	☐	2500.000	2526.475	4602319.24	0.4156	P	0.5
7	☐	5000.000	4976.252	8910565.57	0.8185	A	1.3
8	☐			3428.28	0.0003	P	10.6

$$y = 1.6449\text{E-}004 * x + 1.3761\text{E-}006$$

$$R = 1.0000$$

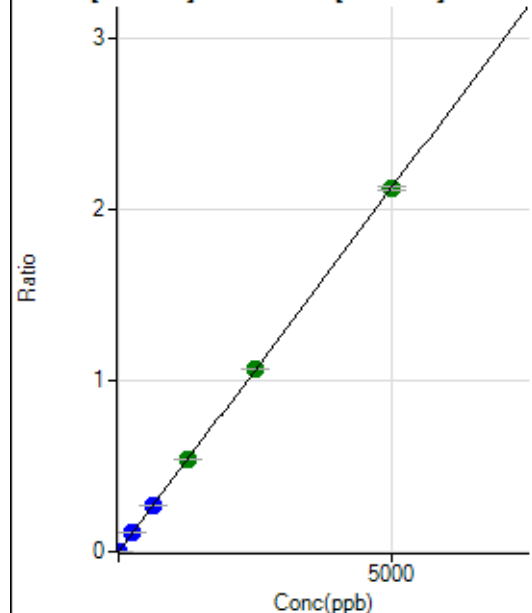
$$DL = 0.01271$$

$$BEC = 0.008366$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	52.78	0.0000	P	48.8
2	☐	5.000	5.233	27209.76	0.0022	P	0.6
3	☐	250.000	257.475	1331973.93	0.1094	P	0.7
4	☐	625.000	643.355	3255634.53	0.2733	P	0.7
5	☐	1250.000	1266.628	6245549.71	0.5381	A	0.2
6	☐	2500.000	2509.631	11807481.17	1.0662	A	0.7
7	☐	5000.000	4988.359	23069980.90	2.1192	A	1.2
8	☐			9217.12	0.0008	P	7.5

$$y = 4.2484\text{E-}004 * x + 4.3578\text{E-}006$$

$$R = 1.0000$$

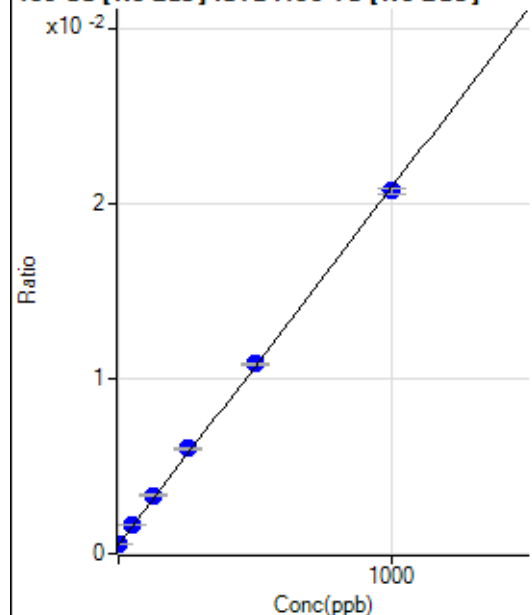
$$DL = 0.01502$$

$$BEC = 0.01026$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4853.74	0.0005	P	1.4
2	☐	1.000	1.922	5270.57	0.0006	P	4.1
3	☐	50.000	55.696	15545.02	0.0017	P	1.7
4	☐	125.000	138.571	31207.09	0.0033	P	2.4
5	☐	250.000	268.326	55726.23	0.0060	P	0.8
6	☐	500.000	505.105	99589.26	0.0108	P	0.8
7	☐	1000.000	990.884	189037.91	0.0207	P	1.9
8	☐			4912.10	0.0006	P	5.0

$$y = 2.0359\text{E-}005 * x + 5.2319\text{E-}004$$

$$R = 0.9998$$

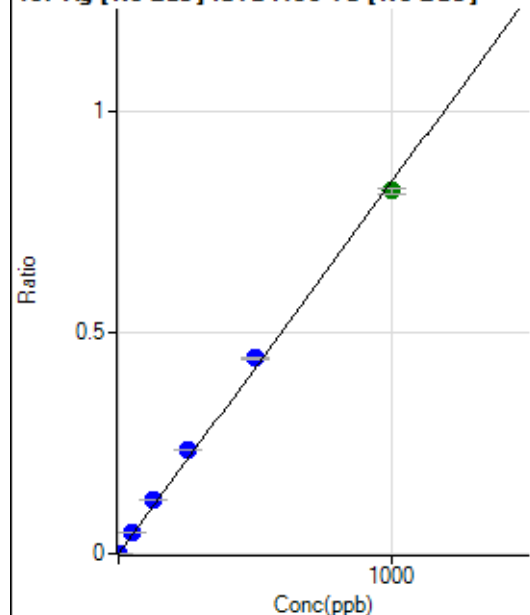
$$DL = 1.056$$

$$BEC = 25.7$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	72.22	0.0000	P	45.4
2	☐	1.000	1.084	8608.39	0.0009	P	2.8
3	☐	50.000	58.870	463988.52	0.0495	P	1.5
4	☐	125.000	144.557	1133247.41	0.1214	P	1.3
5	☐	250.000	280.390	2192793.67	0.2355	P	0.8
6	☐	500.000	526.122	4073056.73	0.4420	P	0.5
7	☐	1000.000	976.453	7492638.45	0.8203	A	1.3
8	☐			2080.78	0.0002	P	2.7

$$y = 8.4003\text{E-}004 * x + 7.8195\text{E-}006$$

$$R = 0.9989$$

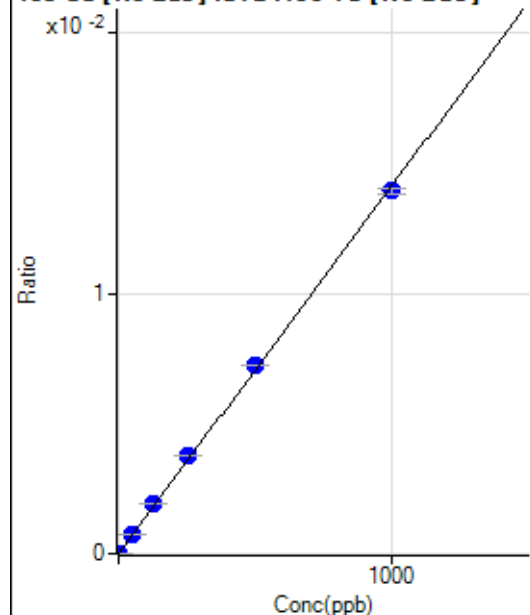
$$DL = 0.01269$$

$$BEC = 0.009309$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	20.83	0.0000	P	59.0
2	☐	1.000	1.122	169.45	0.0000	P	10.7
3	☐	50.000	53.131	7058.77	0.0008	P	2.3
4	☐	125.000	135.688	17894.74	0.0019	P	3.4
5	☐	250.000	267.695	35203.30	0.0038	P	0.9
6	☐	500.000	513.451	66822.50	0.0073	P	0.7
7	☐	1000.000	987.358	127344.02	0.0139	P	1.6
8	☐			129.17	0.0000	P	15.1

$$y = 1.4118\text{E-}005 * x + 2.2396\text{E-}006$$

$$R = 0.9997$$

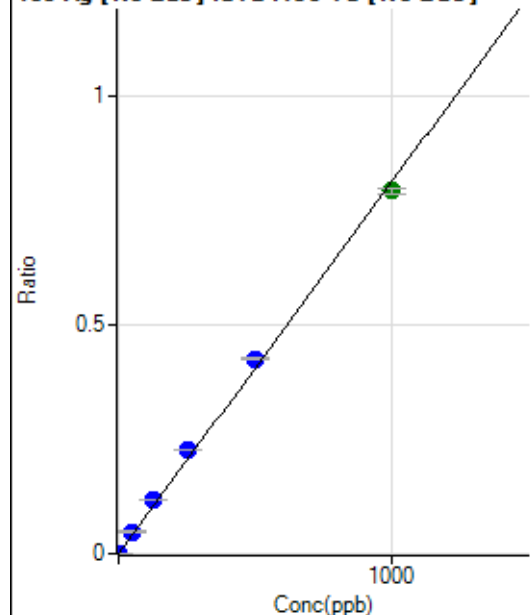
$$DL = 0.2808$$

$$BEC = 0.1586$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	25.00	0.0000	P	87.8
2	☐	1.000	1.084	8283.16	0.0009	P	1.6
3	☐	50.000	59.144	450978.17	0.0481	P	1.7
4	☐	125.000	144.141	1093296.40	0.1172	P	0.9
5	☐	250.000	280.203	2120168.91	0.2277	P	0.9
6	☐	500.000	525.277	3934502.74	0.4269	P	0.6
7	☐	1000.000	976.961	7252793.13	0.7941	A	1.9
8	☐			1991.86	0.0002	P	3.6

$$y = 8.1277\text{E-}004 * x + 2.6962\text{E-}006$$

$$R = 0.9989$$

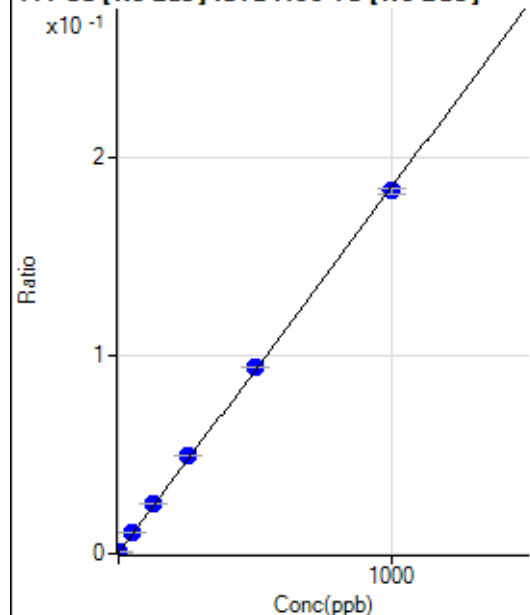
$$DL = 0.008738$$

$$BEC = 0.003317$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3417.76	0.0004	P	2.2
2	☐	1.000	1.251	5619.57	0.0006	P	3.3
3	☐	50.000	55.369	99416.37	0.0106	P	1.0
4	☐	125.000	136.318	238437.90	0.0256	P	0.9
5	☐	250.000	266.336	461465.80	0.0496	P	1.0
6	☐	500.000	507.869	868039.72	0.0942	P	0.3
7	☐	1000.000	990.298	1674339.74	0.1833	P	1.8
8	☐			3856.40	0.0004	P	4.9

$$y = 1.8473\text{E-}004 * x + 3.6844\text{E-}004$$

$$R = 0.9998$$

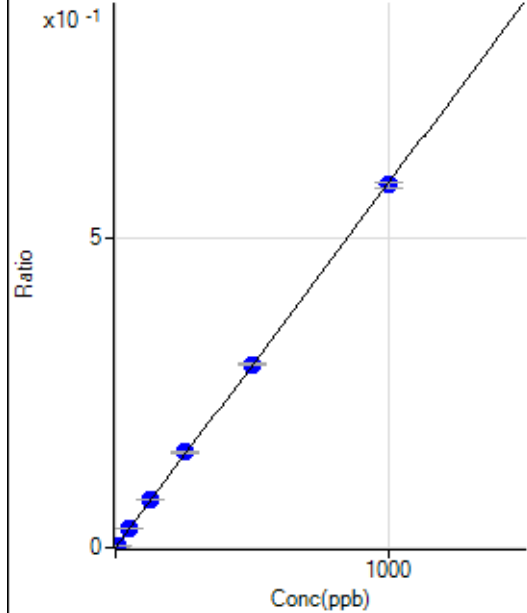
$$DL = 0.1345$$

$$BEC = 1.994$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2661.79	0.0003	P	10.8
2	☐	5.000	5.224	31574.89	0.0034	P	1.9
3	☐	50.000	53.758	300215.07	0.0320	P	1.3
4	☐	125.000	133.607	738202.27	0.0791	P	0.4
5	☐	250.000	260.703	1434393.72	0.1541	P	0.5
6	☐	500.000	502.205	2732877.51	0.2965	P	0.9
7	☐	1000.000	994.957	5363878.72	0.5872	P	1.5
8	☐			2903.19	0.0003	P	4.4

$$y = 5.8991\text{E-}004 * x + 2.8683\text{E-}004$$

$$R = 0.9999$$

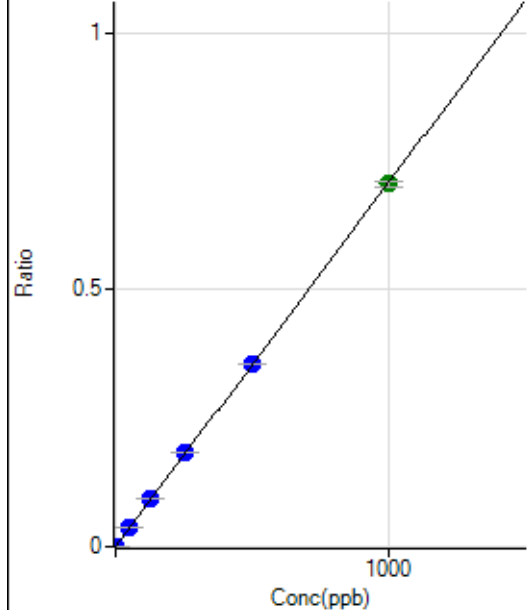
$$DL = 0.1577$$

$$BEC = 0.4862$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	147.23	0.0000	P	4.7
2	☐	2.000	2.080	13943.36	0.0015	P	1.8
3	☐	50.000	52.761	350474.47	0.0374	P	1.1
4	☐	125.000	130.894	864677.20	0.0927	P	0.7
5	☐	250.000	257.517	1696842.42	0.1823	P	0.9
6	☐	500.000	500.462	3264364.22	0.3542	P	0.4
7	☐	1000.000	997.015	6445332.00	0.7056	A	1.9
8	☐			7780.16	0.0009	P	8.0

$$y = 7.0774\text{E-}004 * x + 1.5876\text{E-}005$$

$$R = 1.0000$$

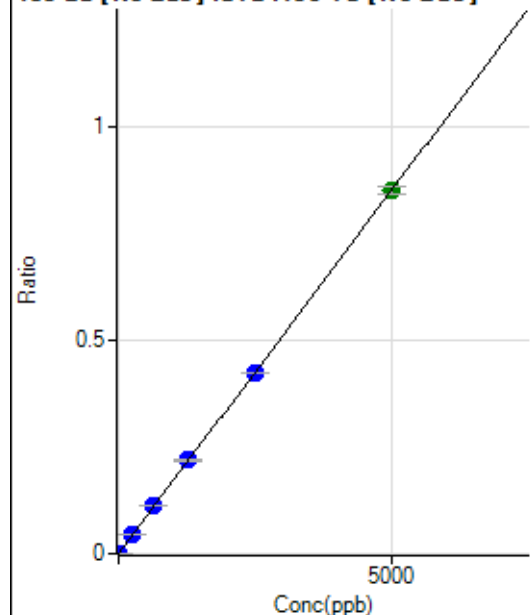
$$DL = 0.00318$$

$$BEC = 0.02243$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	61.11	0.0000	P	42.6
2	☐	10.000	10.818	17319.49	0.0018	P	2.8
3	☐	250.000	263.376	420676.35	0.0448	P	1.1
4	☐	625.000	653.328	1037893.99	0.1112	P	1.2
5	☐	1250.000	1284.949	2036370.77	0.2187	P	0.6
6	☐	2500.000	2485.073	3898610.37	0.4230	P	0.5
7	☐	5000.000	4994.515	7765711.46	0.8502	A	2.3
8	☐			2236.35	0.0003	P	8.4

$$y = 1.7023\text{E-}004 * x + 6.6023\text{E-}006$$

$$R = 1.0000$$

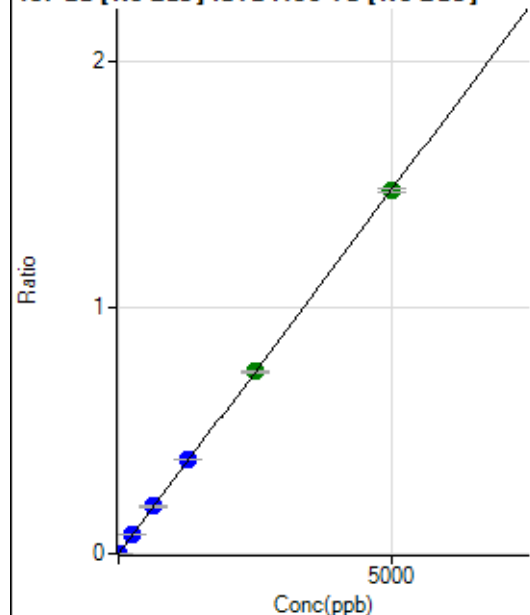
$$DL = 0.04958$$

$$BEC = 0.03878$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	86.11	0.0000	P	22.1
2	☐	10.000	10.847	30133.06	0.0032	P	1.0
3	☐	250.000	262.588	728180.98	0.0776	P	1.4
4	☐	625.000	649.741	1792132.76	0.1920	P	0.8
5	☐	1250.000	1283.280	3531006.16	0.3793	P	0.2
6	☐	2500.000	2502.585	6816526.71	0.7397	A	0.5
7	☐	5000.000	4986.664	13463035.28	1.4738	A	1.1
8	☐			3683.91	0.0004	P	2.5

$$y = 2.9556\text{E-}004 * x + 9.2793\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02085$$

$$BEC = 0.0314$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

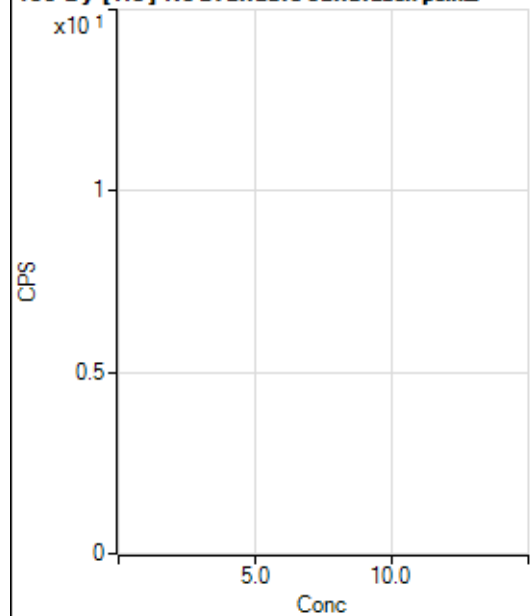
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			4.45		P	86.6
3	☐			46.67		P	75.6
4	☐			97.78		P	55.1
5	☐			168.89		P	27.7
6	☐			311.12		P	19.3
7	☐			700.04		P	17.6
8	☐			15.56		P	65.5

150 Nd [He] No available calibration points

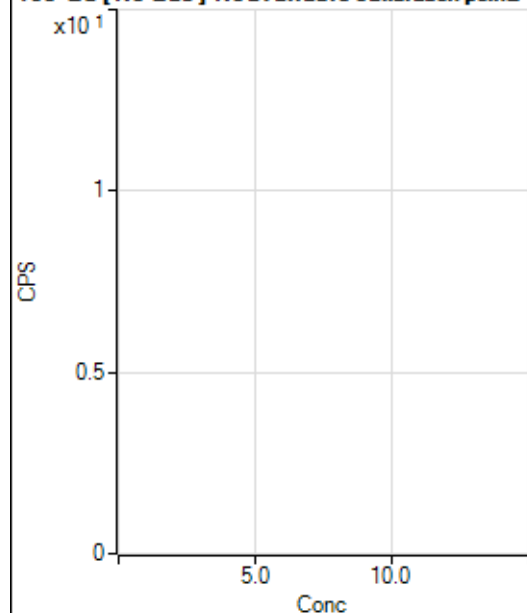
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			4.45		P	86.6
3	☐			2.22		P	86.6
4	☐			14.44		P	58.1
5	☐			21.11		P	39.7
6	☐			36.67		P	39.6
7	☐			131.11		P	20.7
8	☐			10.00		P	57.7

156 Dy [No Gas] No available calibration points

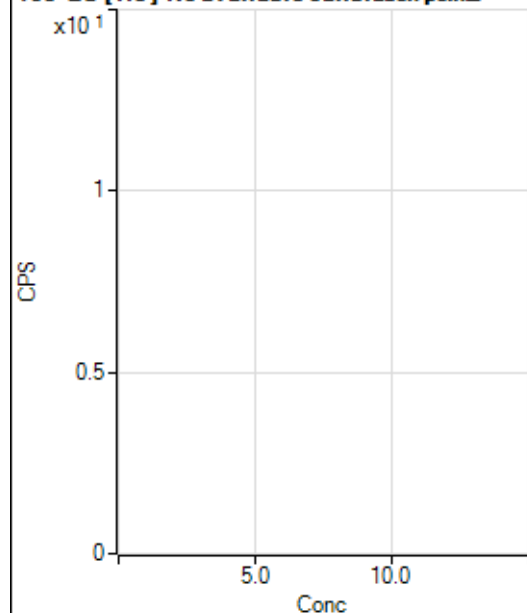
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.78		P	173.
2	☐			2.78		P	173.
3	☐			33.33		P	0.0
4	☐			66.67		P	50.0
5	☐			105.56		P	4.6
6	☐			216.67		P	32.9
7	☐			466.69		P	27.0
8	☐			1216.76		P	13.3

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	173.
2	☐			4.44		P	173.
3	☐			16.67		P	52.9
4	☐			47.78		P	38.4
5	☐			72.22		P	10.7
6	☐			146.67		P	15.9
7	☐			284.45		P	5.3
8	☐			806.70		P	2.5

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

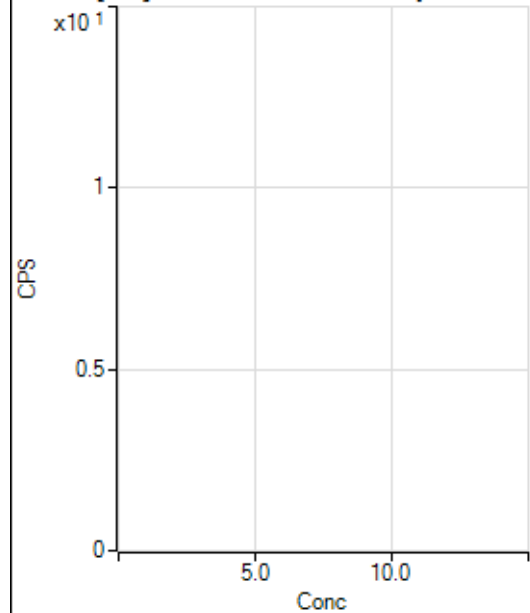
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			33.33		P	90.1
2	☐			50.00		P	33.3
3	☐			58.34		P	62.3
4	☐			86.11		P	29.6
5	☐			133.33		P	10.8
6	☐			186.12		P	40.6
7	☐			416.69		P	7.2
8	☐			1408.45		P	11.6

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			120.00		P	5.6
2	☐			101.11		P	21.5
3	☐			117.78		P	14.2
4	☐			151.11		P	12.1
5	☐			138.89		P	15.4
6	☐			232.23		P	11.7
7	☐			317.78		P	9.0
8	☐			1006.71		P	6.9

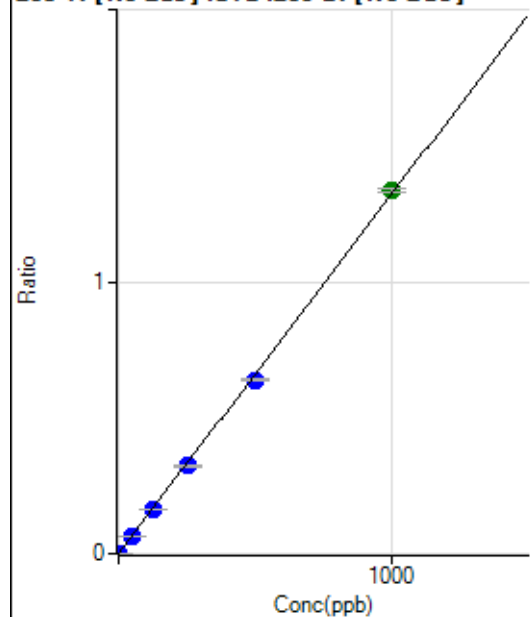
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			80.56		P	47.8
2	☐			66.67		P	0.0
3	☐			44.44		P	21.7
4	☐			108.33		P	40.7
5	☐			75.00		P	40.1
6	☐			111.12		P	37.0
7	☐			155.56		P	11.2
8	☐			283.34		P	24.1

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	21.6
2	☐			46.67		P	25.8
3	☐			42.22		P	16.4
4	☐			32.22		P	31.6
5	☐			50.00		P	11.5
6	☐			74.44		P	22.1
7	☐			95.56		P	17.9
8	☐			141.12		P	7.6

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	286.12	0.0000	P	3.8
2	☐	1.000	0.967	8405.62	0.0013	P	5.5
3	☐	50.000	48.329	408032.51	0.0640	P	1.7
4	☐	125.000	121.911	1030244.21	0.1613	P	0.6
5	☐	250.000	244.039	2059442.45	0.3228	P	1.0
6	☐	500.000	484.236	4008778.43	0.6404	P	0.7
7	☐	1000.000	1009.842	8172668.50	1.3355	A	1.0
8	☐			3789.54	0.0007	P	10.8

$$y = 0.0013 * x + 4.5222E-005$$

$$R = 0.9998$$

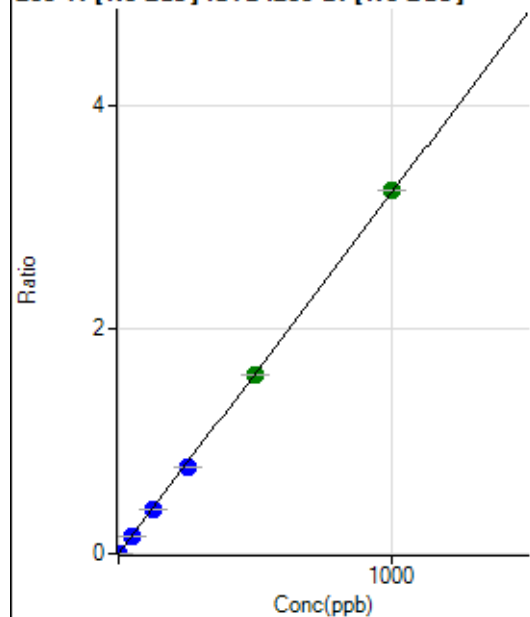
$$DL = 0.003903$$

$$BEC = 0.0342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	647.25	0.0001	P	8.5
2	☐	1.000	0.955	20160.15	0.0032	P	3.2
3	☐	50.000	48.042	986184.64	0.1546	P	1.4
4	☐	125.000	120.806	2482307.04	0.3886	P	0.1
5	☐	250.000	241.366	4952436.87	0.7762	P	0.4
6	☐	500.000	495.254	9968872.01	1.5926	A	0.9
7	☐	1000.000	1005.154	19779874.58	3.2322	A	0.1
8	☐			8758.67	0.0016	P	12.8

$$y = 0.0032 * x + 1.0227E-004$$

$$R = 0.9999$$

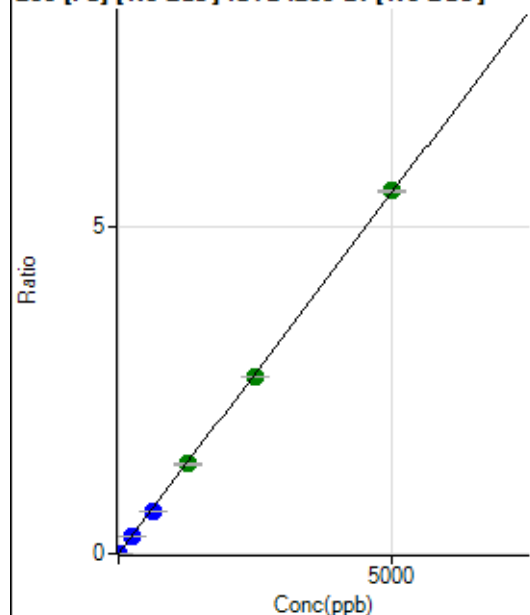
$$DL = 0.00807$$

$$BEC = 0.0318$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	500.02	0.0001	P	14.3
2	☐	1.000	0.970	7311.38	0.0012	P	2.0
3	☐	250.000	237.197	1673121.26	0.2623	P	1.5
4	☐	625.000	595.043	4202189.27	0.6578	P	0.6
5	☐	1250.000	1240.737	8750570.05	1.3715	A	1.1
6	☐	2500.000	2459.948	17020132.44	2.7191	A	0.3
7	☐	5000.000	5026.727	34001272.29	5.5562	A	0.5
8	☐			14964.16	0.0027	P	1.0

$$y = 0.0011 * x + 7.9056E-005$$

$$R = 0.9999$$

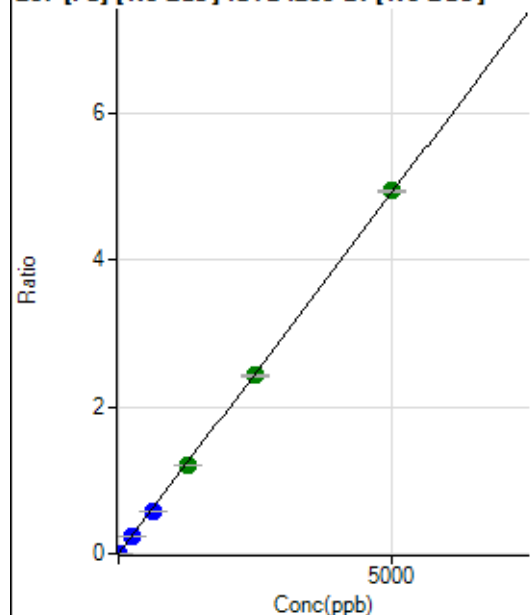
$$DL = 0.03075$$

$$BEC = 0.07152$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	431.50	0.0001	P	11.2
2	☐	1.000	0.959	6429.42	0.0010	P	1.7
3	☐	250.000	236.542	1485826.62	0.2329	P	1.6
4	☐	625.000	589.236	3705616.23	0.5801	P	0.9
5	☐	1250.000	1233.479	7746888.25	1.2142	A	0.4
6	☐	2500.000	2466.079	15195128.58	2.4275	A	0.4
7	☐	5000.000	5026.234	30278080.77	4.9475	A	0.3
8	☐			13783.24	0.0025	P	0.3

$$y = 9.8433E-004 * x + 6.8214E-005$$

$$R = 0.9999$$

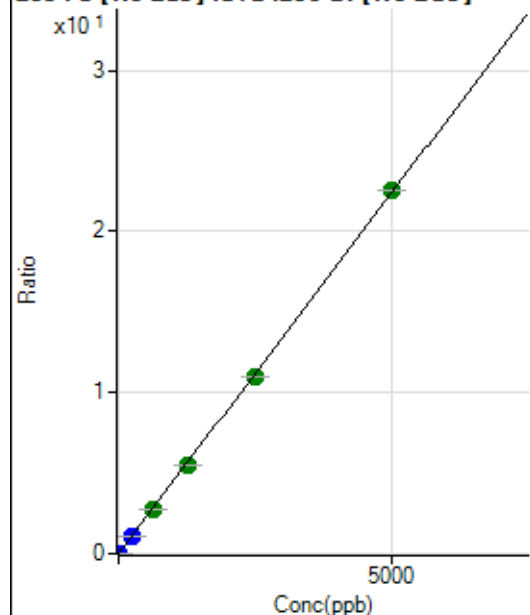
$$DL = 0.02334$$

$$BEC = 0.0693$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	2048.25	0.0003	P	3.5
2	☐	1.000	0.957	29298.25	0.0046	P	1.0
3	☐	250.000	237.031	6775658.85	1.0620	P	0.9
4	☐	625.000	603.505	17270627.82	2.7035	A	0.8
5	☐	1250.000	1232.239	35216246.45	5.5196	A	0.3
6	☐	2500.000	2459.808	68968107.21	11.0180	A	0.3
7	☐	5000.000	5027.871	137820499.1	22.5206	A	0.1
8	☐			61250.21	0.0109	P	0.8

$$y = 0.0045 * x + 3.2372E-004$$

$$R = 0.9999$$

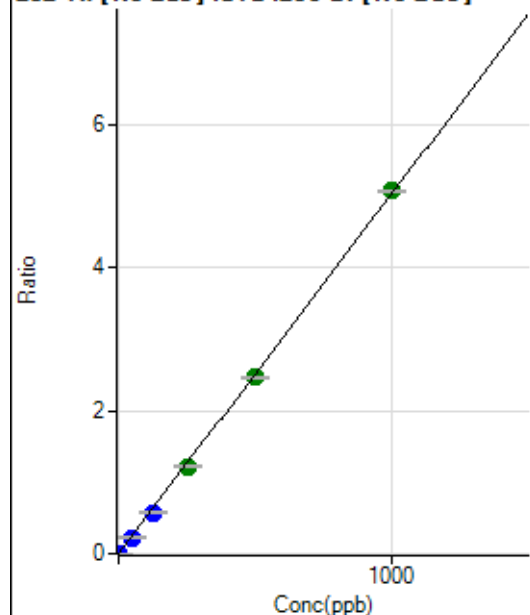
$$DL = 0.007627$$

$$BEC = 0.07227$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	250.01	0.0000	P	12.2
2	☐	1.000	-0.001	207.41	0.0000	P	9.0
3	☐	50.000	45.254	1450174.96	0.2273	P	1.2
4	☐	125.000	114.657	3678688.80	0.5759	P	0.8
5	☐	250.000	242.655	7775434.03	1.2187	A	0.6
6	☐	500.000	489.238	15379814.58	2.4570	A	0.3
7	☐	1000.000	1008.748	31002761.80	5.0660	A	0.3
8	☐			3098.57	0.0006	P	13.2

$$y = 0.0050 * x + 3.9524E-005$$

$$R = 0.9999$$

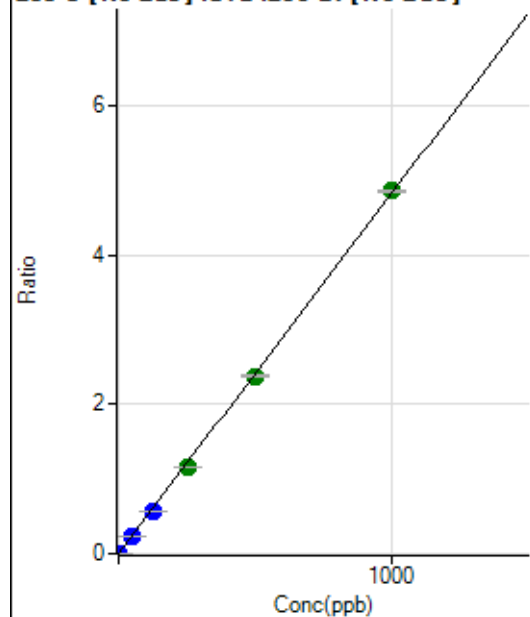
$$DL = 0.002888$$

$$BEC = 0.00787$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	94.45	0.0000	P	59.2
2	☐	1.000	0.900	27663.12	0.0044	P	0.6
3	☐	50.000	46.192	1421369.16	0.2228	P	1.0
4	☐	125.000	116.216	3580429.16	0.5605	P	1.1
5	☐	250.000	241.745	7438458.24	1.1659	A	0.3
6	☐	500.000	492.796	14876459.36	2.3766	A	0.8
7	☐	1000.000	1006.954	29718363.16	4.8562	A	0.4
8	☐			3453.34	0.0006	P	8.9

$$y = 0.0048 * x + 1.4952E-005$$

$$R = 0.9999$$

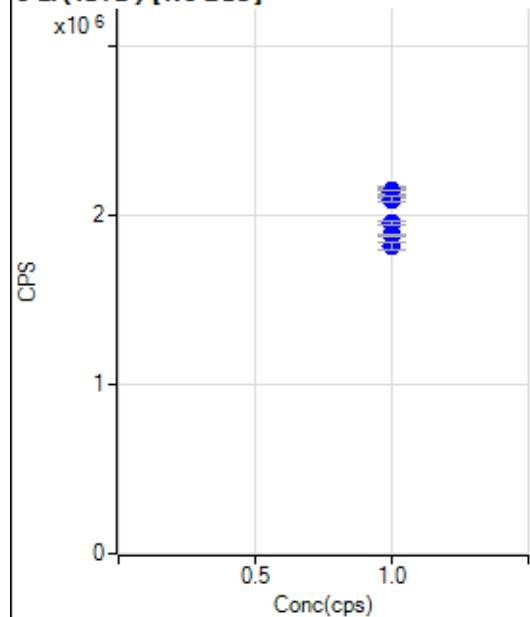
$$DL = 0.005506$$

$$BEC = 0.0031$$

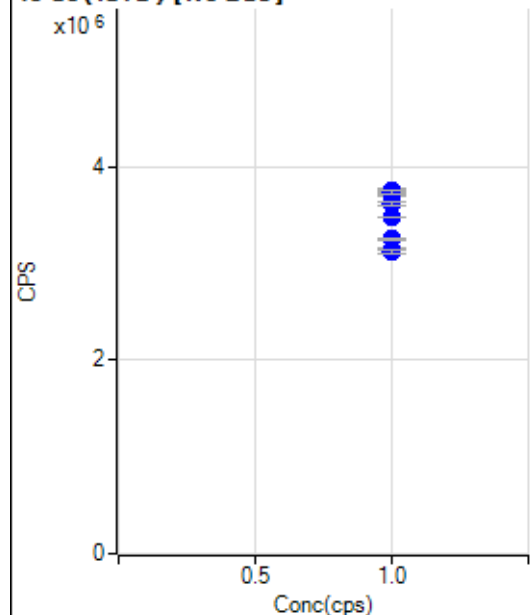
Weight: <None>

Min Conc: 0

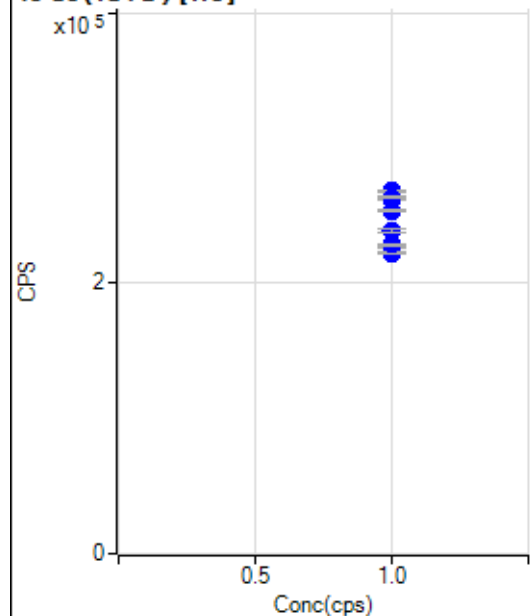
6 Li (ISTD) [No Gas]



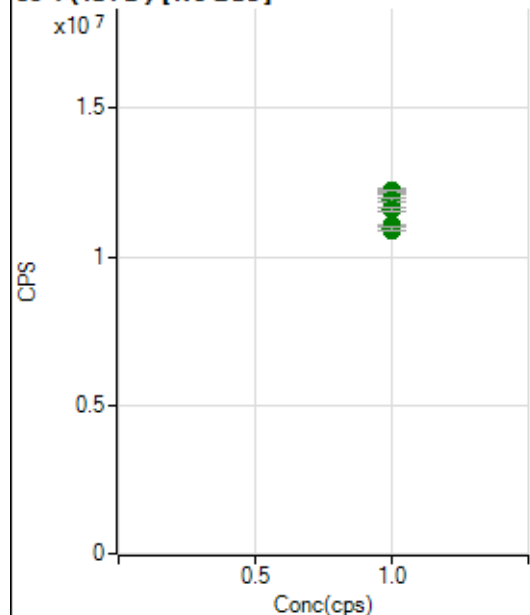
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2102781.46		P	0.4
2	☐	1.000		2138181.96		P	1.9
3	☐	1.000		2141089.97		P	2.2
4	☐	1.000		2131062.80		P	0.9
5	☐	1.000		2092828.82		P	1.9
6	☐	1.000		1954847.56		P	1.2
7	☐	1.000		1882724.62		P	0.5
8	☐	1.000		1814355.77		P	2.7

45 Sc (ISTD) [No Gas]

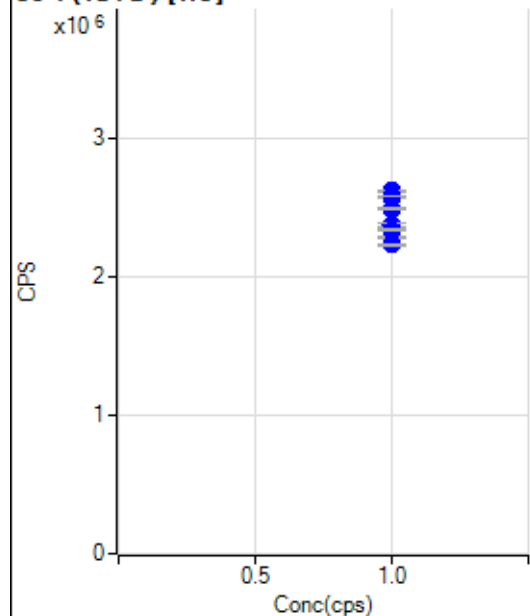
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3750247.96		P	0.9
2	☐	1.000		3725183.69		P	1.8
3	☐	1.000		3743762.41		P	1.1
4	☐	1.000		3617975.19		P	1.4
5	☐	1.000		3478721.99		P	0.3
6	☐	1.000		3256280.50		P	0.7
7	☐	1.000		3149693.36		P	0.3
8	☐	1.000		3116061.34		P	1.3

45 Sc (ISTD) [He]

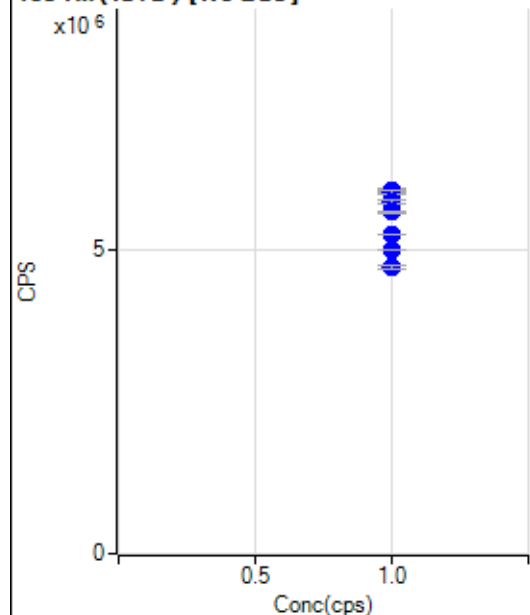
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		261661.60		P	0.3
2	☐	1.000		268332.26		P	0.4
3	☐	1.000		263346.93		P	0.6
4	☐	1.000		253422.91		P	0.7
5	☐	1.000		238750.27		P	1.2
6	☐	1.000		226621.81		P	0.3
7	☐	1.000		222173.74		P	0.6
8	☐	1.000		228642.55		P	0.4

89 Y (ISTD) [No Gas]

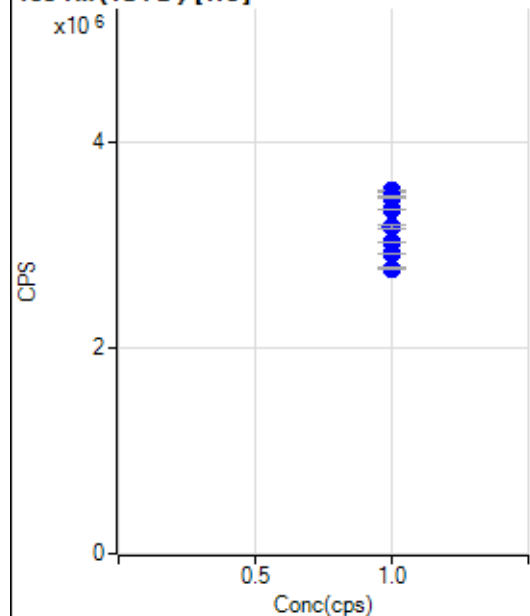
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12149173.98		A	1.0
2	☐	1.000		12215876.35		A	1.2
3	☐	1.000		12176414.40		A	0.6
4	☐	1.000		11911691.90		A	1.0
5	☐	1.000		11606322.88		A	1.3
6	☐	1.000		11074508.03		A	0.1
7	☐	1.000		10886204.00		A	0.3
8	☐	1.000		10933305.81		A	1.5

89 Y (ISTD) [He]

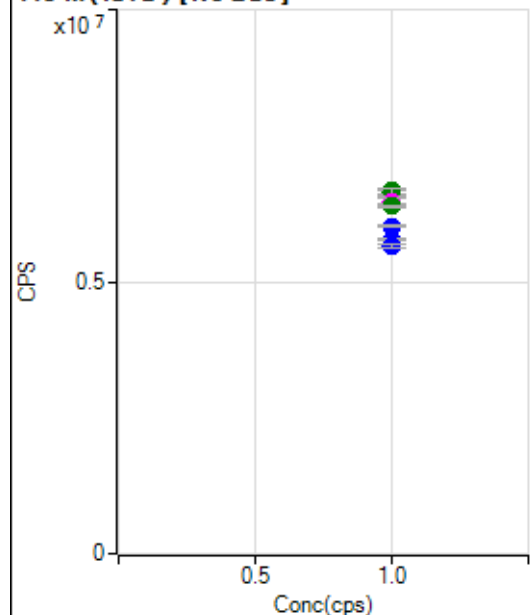
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2571453.90		P	0.3
2	☐	1.000		2622306.23		P	0.6
3	☐	1.000		2588187.08		P	0.0
4	☐	1.000		2491804.13		P	0.4
5	☐	1.000		2374570.05		P	1.3
6	☐	1.000		2286130.82		P	0.4
7	☐	1.000		2234383.26		P	0.5
8	☐	1.000		2336854.55		P	0.6

103 Rh (ISTD) [No Gas]

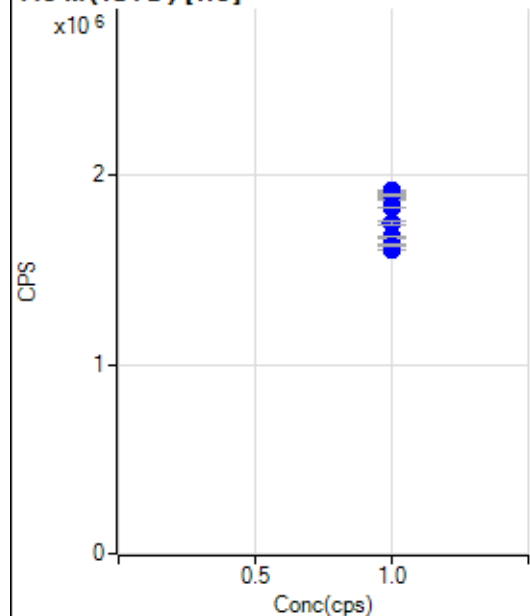
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5948468.73		P	0.4
2	☐	1.000		5958057.55		P	1.2
3	☐	1.000		5932376.30		P	1.3
4	☐	1.000		5776040.19		P	1.0
5	☐	1.000		5607303.39		P	0.6
6	☐	1.000		5249761.38		P	0.2
7	☐	1.000		4986908.19		P	0.4
8	☐	1.000		4699380.80		P	1.2

103 Rh (ISTD) [He]

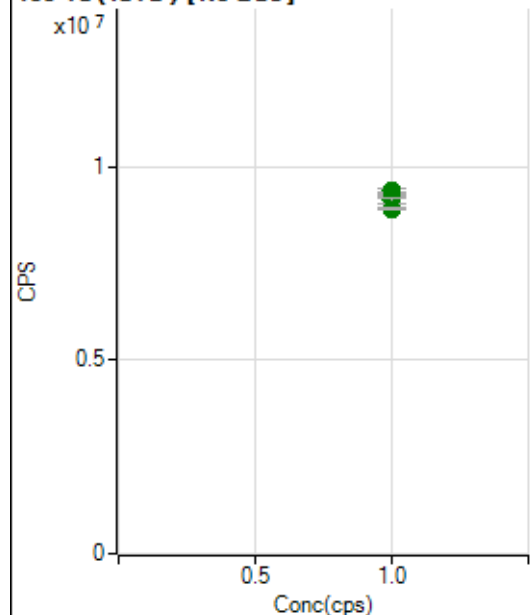
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3466629.01		P	0.6
2	☐	1.000		3532823.73		P	0.5
3	☐	1.000		3473697.90		P	0.4
4	☐	1.000		3351655.33		P	0.1
5	☐	1.000		3187399.64		P	1.3
6	☐	1.000		3035016.66		P	0.5
7	☐	1.000		2920575.79		P	0.3
8	☐	1.000		2776176.94		P	0.4

115 In (ISTD) [No Gas]

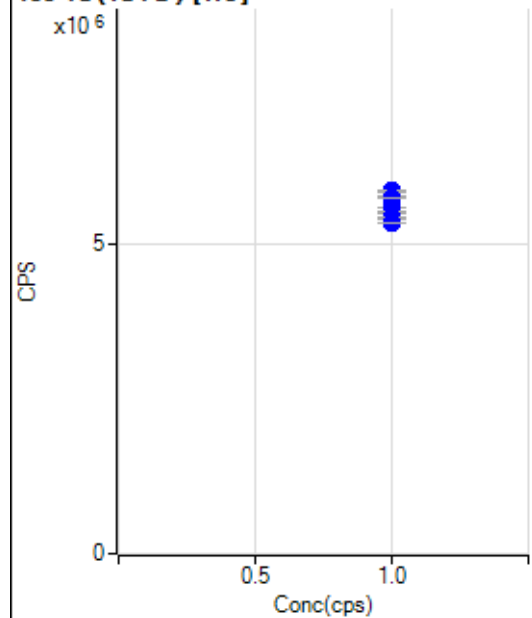
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6671075.46		A	1.3
2	☐	1.000		6636668.94		A	1.4
3	☐	1.000		6652832.27		A	2.1
4	☐	1.000		6487103.05		M	1.6
5	☐	1.000		6388772.45		A	0.8
6	☐	1.000		6026709.41		P	0.6
7	☐	1.000		5778424.70		P	0.8
8	☐	1.000		5664728.25		P	1.3

115 In (ISTD) [He]

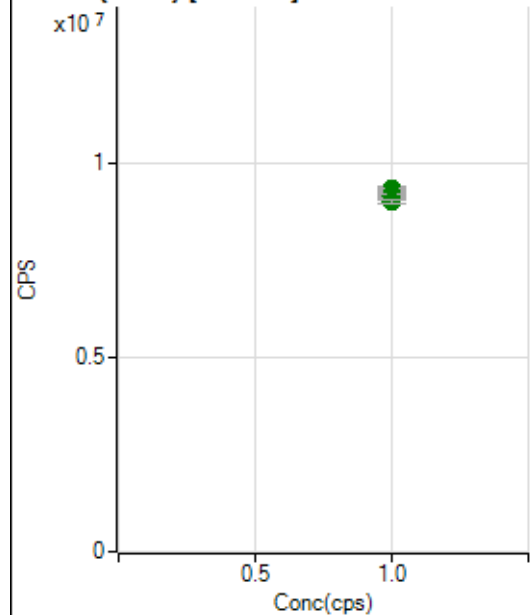
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1876946.31		P	0.7
2	☐	1.000		1916998.23		P	0.6
3	☐	1.000		1896701.80		P	0.3
4	☐	1.000		1831282.01		P	0.2
5	☐	1.000		1746003.31		P	1.1
6	☐	1.000		1672579.82		P	0.5
7	☐	1.000		1607838.84		P	0.3
8	☐	1.000		1630357.97		P	0.8

159 Tb (ISTD) [No Gas]

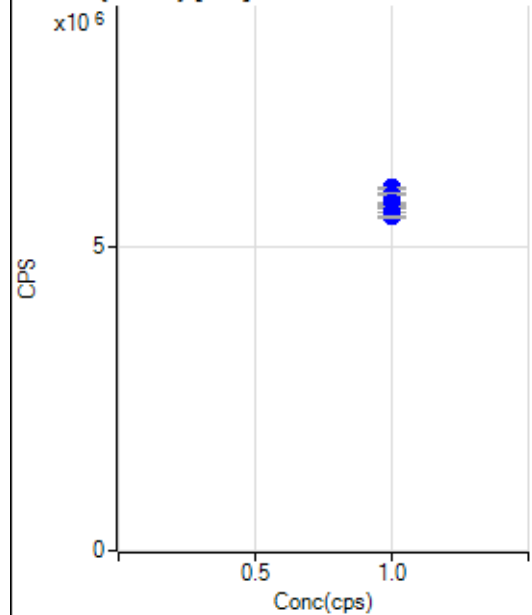
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9278588.13		A	1.7
2	☐	1.000		9372494.30		A	1.2
3	☐	1.000		9382769.30		A	1.8
4	☐	1.000		9332264.16		A	0.7
5	☐	1.000		9309548.54		A	0.3
6	☐	1.000		9215902.50		A	0.6
7	☐	1.000		9135625.21		A	1.5
8	☐	1.000		8926885.49		A	1.0

159 Tb (ISTD) [He]

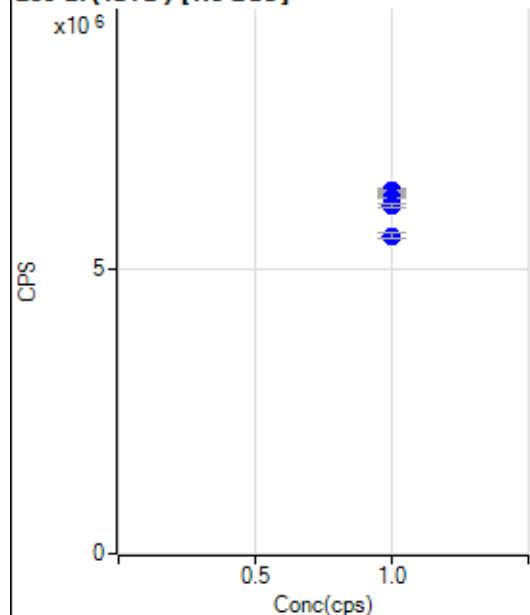
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5733477.76		P	0.5
2	☐	1.000		5837830.19		P	0.1
3	☐	1.000		5846328.46		P	0.5
4	☐	1.000		5730229.22		P	0.4
5	☐	1.000		5579622.42		P	0.4
6	☐	1.000		5507466.30		P	0.6
7	☐	1.000		5410462.28		P	0.1
8	☐	1.000		5331628.91		P	0.4

165 Ho (ISTD) [No Gas]

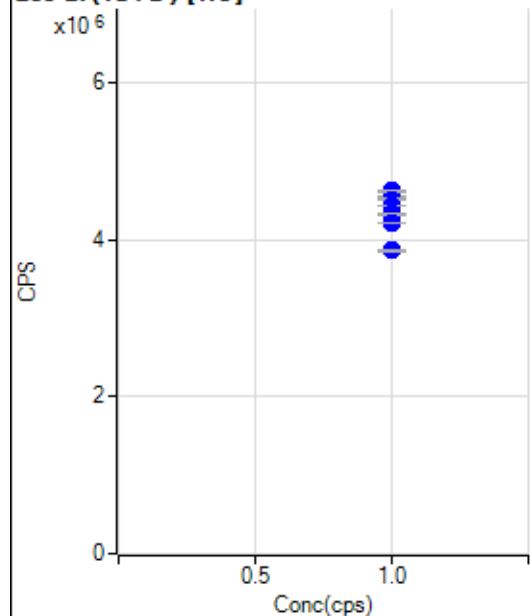
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		9233225.90		A	0.6
2	☐	1.000		9283650.49		A	1.0
3	☐	1.000		9318763.75		A	1.8
4	☐	1.000		9328212.85		A	1.4
5	☐	1.000		9351476.25		A	0.5
6	☐	1.000		9213645.63		A	0.7
7	☐	1.000		9163664.03		A	0.9
8	☐	1.000		9030996.39		A	1.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5879080.96		P	0.7
2	☐	1.000		5975513.45		P	0.2
3	☐	1.000		5985715.68		P	0.3
4	☐	1.000		5881556.65		P	0.3
5	☐	1.000		5734643.80		P	0.7
6	☐	1.000		5670062.76		P	0.8
7	☐	1.000		5588331.24		P	0.3
8	☐	1.000		5508823.11		P	0.2

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6327826.78		P	0.5
2	☐	1.000		6353106.15		P	0.9
3	☐	1.000		6380658.93		P	1.6
4	☐	1.000		6388643.58		P	1.1
5	☐	1.000		6380223.93		P	0.4
6	☐	1.000		6259528.31		P	0.4
7	☐	1.000		6119732.27		P	0.9
8	☐	1.000		5599063.87		P	1.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4557555.52		P	0.1
2	☐	1.000		4626992.92		P	0.2
3	☐	1.000		4624363.51		P	0.1
4	☐	1.000		4521438.34		P	0.5
5	☐	1.000		4440779.00		P	0.3
6	☐	1.000		4338991.46		P	0.6
7	☐	1.000		4215096.08		P	0.2
8	☐	1.000		3867652.34		P	0.4

US EPA Tune Check Sample Report

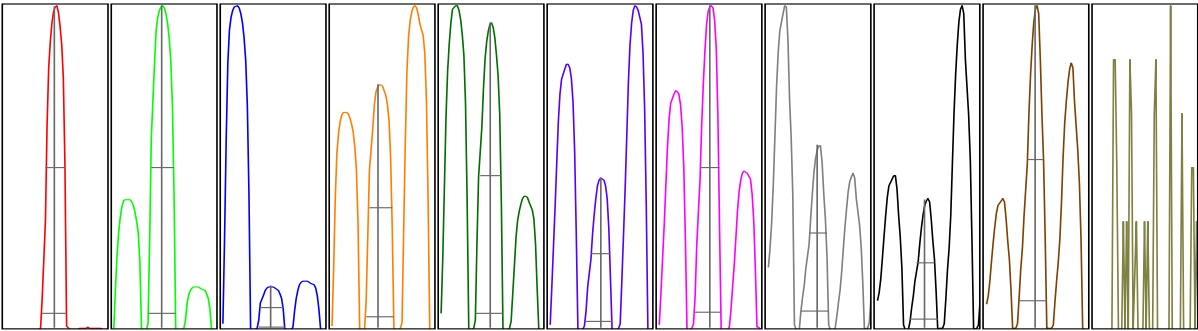
Batch Folder C:\Agilent\ICPMH\1\DATA\P7090121 MS.b
Report Comment
Instrument Name G8403A JP14410463

[No Gas]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)	RSD% (Flag)
9	6567	0.51	5.00	
24	63847	0.42	5.00	
25	8555	0.33	5.00	
26	9740	0.25	5.00	
59	15994	0.26	5.00	
113	10148	0.54	5.00	
115	29162	1.42	5.00	
206	15957	0.75	5.00	
207	13619	0.76	5.00	
208	32955	0.56	5.00	
220	0	91.29		

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
9	6609	6589	6572	6534	6533
24	63390	64091	63959	63877	63918
25	8544	8532	8531	8594	8576
26	9768	9733	9741	9703	9755
59	15937	16003	16021	16040	15970
113	10235	10164	10133	10094	10116
115	29701	29439	29049	28983	28637
206	16025	16025	16077	15846	15813
207	13732	13697	13607	13592	13466
208	33172	33063	33009	32790	32740
220	0	0	0	0	0

Integration Time [sec] = 0.1



Mass	Peak Height	Axis (Actual)	Axis (Required)	Axis (Flag)	Width-X% (Actual)	Width-X% (Required)	Width- X% (Flag)
9	11994	9.00	8.9 - 9.1		0.720	0.900	
24	102234	23.95	23.9 - 24.1		0.788	0.900	
25	13543	24.95	24.9 - 25.1		0.786	0.900	
26	15207	25.90	25.9 - 26.1		0.823	0.900	
59	26652	59.00	58.9 - 59.1		0.789	0.900	
113	18431	113.05	112.9 - 113.1		0.779	0.900	
115	53654	115.05	114.9 - 115.1		0.772	0.900	
206	31335	206.00	205.9 - 206.1		0.791	0.900	
207	26104	206.95	206.9 - 207.1		0.778	0.900	
208	65639	208.00	207.9 - 208.1		0.789	0.900	
220			-				

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

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.4	V	Deflect	13.6	V
Extract 2	-115.0	V	Cell Entrance	-30	V	Plate Bias	-35	V
Omega Bias	-70	V	Cell Exit	-50	V			

Cell Parameters

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

[He]

Mass	Count (Mean)	RSD% (Actual)	RSD% (Required)
59	5256	0.82	
89	30927	0.78	
205	19363	0.61	

Mass	Replicate 1 Count	Replicate 2 Count	Replicate 3 Count	Replicate 4 Count	Replicate 5 Count
59	5304	5234	5247	5295	5202
89	31163	30901	31069	30967	30534
205	19543	19292	19406	19336	19236

Integration Time [sec] = 0.1

Tune Parameters

Plasma Paramters

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

Lenses Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Extract 1	0.0	V	Omega Lens	9.7	V	Deflect	1.8	V
Extract 2	-140.0	V	Cell Entrance	-40	V	Plate Bias	-60	V
Omega Bias	-80	V	Cell Exit	-60	V			

Cell Parameters

ParameterName	Value	Unit	ParameterName	Value	Unit	ParameterName	Value	Unit
Use Gas	Yes		OctP Bias	-18.0	V	Energy Discrimination		5.0 V
He Flow	3.9	mL/min	OctP RF	200	V			