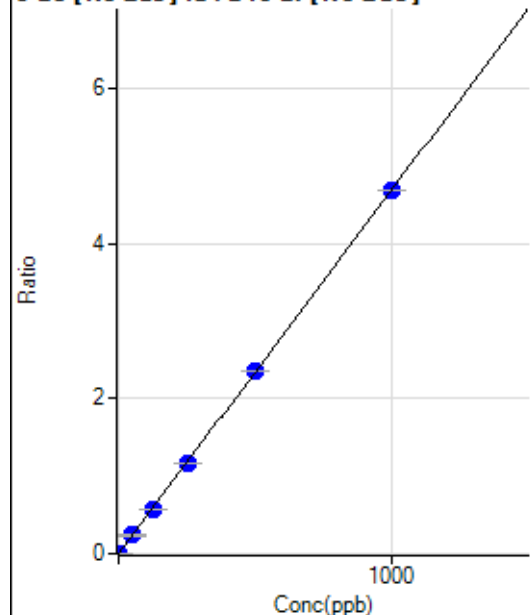


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8092420 MS.b\
Analysis File: P8092420 MS.batch.bin
DA Date-Time: 2020-09-25 00:09:32
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	003CALB.d	S00	2020-09-24 13:36:55
2	004CAL.S.d	S02	2020-09-24 13:40:18
3	005CAL.S.d	S03	2020-09-24 13:43:39
4	006CAL.S.d	S04	2020-09-24 13:47:02
5	007CAL.S.d	S05	2020-09-24 13:50:18
6	008CAL.S.d	S06	2020-09-24 13:53:30
7	009CAL.S.d	S07	2020-09-24 13:56:35
8	010CAL.S.d	S08	2020-09-24 13:59:35

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	49.32	0.0004	P	8.9
2	☐	1.000	0.965	665.89	0.0049	P	1.6
3	☐	50.000	50.198	32320.15	0.2361	P	0.9
4	☐	125.000	122.896	81291.05	0.5774	P	0.9
5	☐	250.000	250.623	164164.29	1.1772	P	0.4
6	☐	500.000	503.881	330574.26	2.3664	P	0.5
7	☐	1000.000	998.157	665701.09	4.6873	P	0.2
8	☐			177.97	0.0013	P	14.1

$$y = 0.0047 * x + 3.6277E-004$$

$$R = 1.0000$$

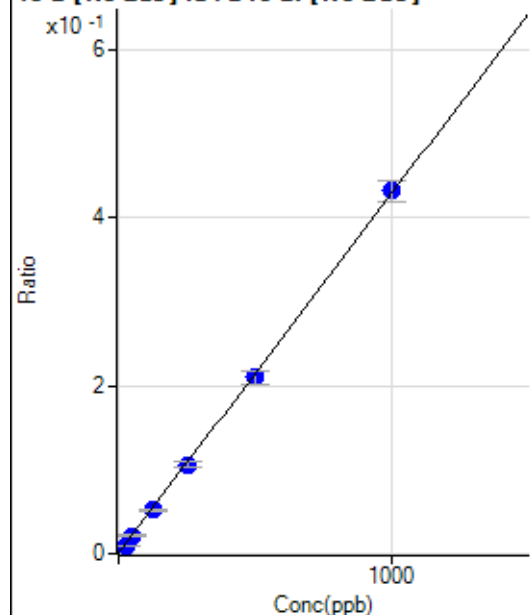
$$DL = 0.02058$$

$$BEC = 0.07726$$

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	111.98	0.0008	P	6.5
2	☐	25.000	20.964	1331.14	0.0098	P	3.2
3	☐	50.000	47.952	2919.05	0.0213	P	5.5
4	☐	125.000	119.042	7276.38	0.0517	P	7.4
5	☐	250.000	246.486	14802.53	0.1061	P	6.6
6	☐	500.000	488.330	29260.64	0.2095	P	8.2
7	☐	1000.000	1007.661	61269.24	0.4314	P	5.9
8	☐			6751.59	0.0479	P	17.1

$$y = 4.2729E-004 * x + 8.2352E-004$$

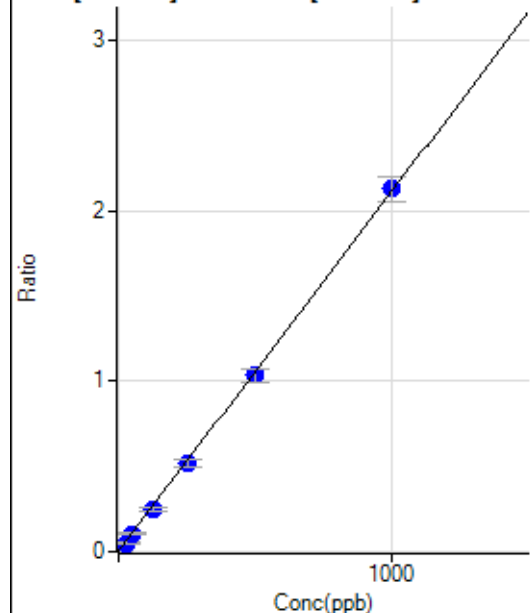
$$R = 0.9999$$

$$DL = 0.3753$$

$$BEC = 1.927$$

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	469.25	0.0035	P	7.0
2	☐	25.000	22.274	6866.94	0.0505	P	9.0
3	☐	50.000	48.750	14567.03	0.1063	P	6.9
4	☐	125.000	116.646	35141.51	0.2497	P	6.8
5	☐	250.000	245.173	72645.84	0.5209	P	7.6
6	☐	500.000	488.474	144498.89	1.0345	P	7.1
7	☐	1000.000	1008.145	302709.45	2.1313	P	7.0
8	☐			33234.53	0.2357	P	13.8

$$y = 0.0021 * x + 0.0035$$

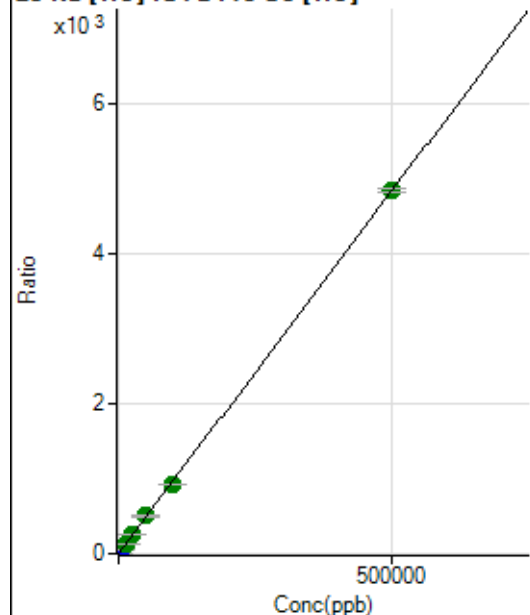
$$R = 0.9999$$

$$DL = 0.3447$$

$$BEC = 1.635$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24387.56	1.9466	P	0.7
2	☐	500.000	520.370	87316.79	6.9626	P	2.3
3	☐	5000.000	5536.511	700087.28	55.3153	P	3.0
4	☐	12500.000	13651.191	1699767.55	133.5360	A	2.6
5	☐	25000.000	26587.475	3350038.75	258.2341	A	0.9
6	☐	50000.000	51897.799	6577404.31	502.2106	A	3.9
7	☐	100000.00	95516.012	13262787.63	922.6643	A	0.9
8	☐	500000.00	500593.47	62528478.48	4,827.3712	A	1.0

$$y = 0.0096 * x + 1.9466$$

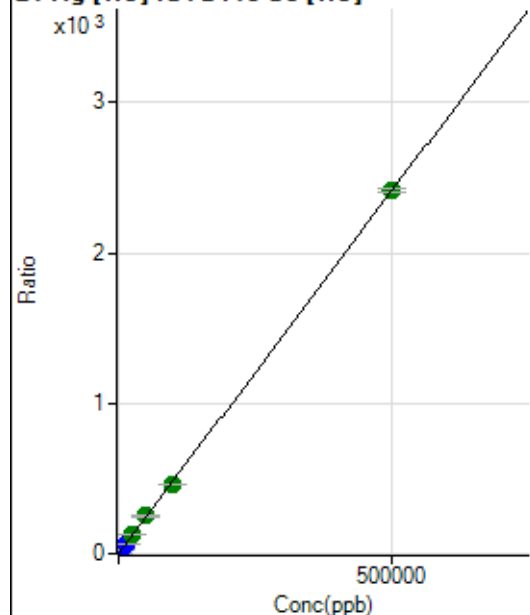
$$R = 0.9999$$

$$DL = 4.535$$

$$BEC = 201.9$$

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	544.47	0.0435	P	10.4
2	☐	500.000	508.724	31292.61	2.4944	P	0.6
3	☐	5000.000	5554.938	339257.74	26.8063	P	3.1
4	☐	12500.000	13852.111	849972.45	66.7807	P	3.1
5	☐	25000.000	26922.522	1683193.51	129.7518	A	1.4
6	☐	50000.000	52466.594	3310534.77	252.8189	A	4.7
7	☐	100000.00	95660.502	6625440.47	460.9200	A	1.2
8	☐	500000.00	500485.75	31232983.34	2,411.3014	A	1.2

$$y = 0.0048 * x + 0.0435$$

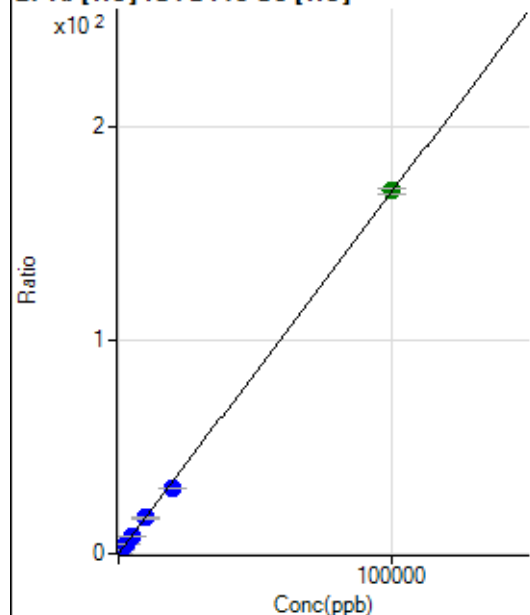
$$R = 0.9999$$

$$DL = 2.826$$

$$BEC = 9.027$$

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	712.43	0.0569	P	3.2
2	☐	20.000	18.995	1117.83	0.0891	P	3.5
3	☐	1000.000	1037.104	22965.59	1.8145	P	3.2
4	☐	2500.000	2557.381	55884.69	4.3911	P	3.5
5	☐	5000.000	4991.299	110480.24	8.5160	P	0.8
6	☐	10000.000	9870.374	219811.98	16.7849	P	4.2
7	☐	20000.000	18116.186	442156.02	30.7597	P	0.8
8	☐	100000.00	100388.35	2204564.51	170.1923	A	1.3

$$y = 0.0017 * x + 0.0569$$

$$R = 0.9998$$

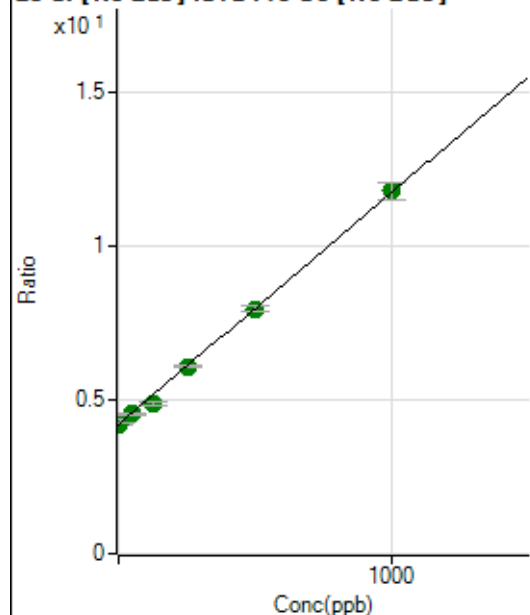
$$DL = 3.183$$

$$BEC = 33.56$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1091168.26	4.2216	A	2.5
2	☐	10.000	14.802	1115013.51	4.3330	A	2.4
3	☐	50.000	43.388	1194517.76	4.5482	A	0.8
4	☐	125.000	86.955	1348468.84	4.8762	A	3.1
5	☐	250.000	247.583	1631017.60	6.0855	A	1.0
6	☐	500.000	497.798	2155151.35	7.9692	A	2.5
7	☐	1000.000	1006.744	3249985.97	11.8007	A	4.4
8	☐			1530950.22	5.7134	A	2.5

$$y = 0.0075 * x + 4.2216$$

$$R = 0.9992$$

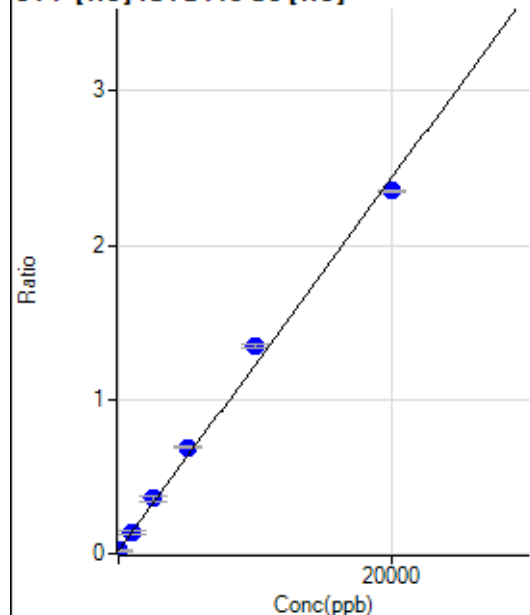
$$DL = 41.62$$

$$BEC = 560.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-2.851	233.34	0.0186	P	18.2
2	☐	0.000	2.851	241.68	0.0193	P	12.9
3	☐	1000.000	984.845	1741.82	0.1378	P	12.1
4	☐	2500.000	2816.874	4564.72	0.3590	P	9.1
5	☐	5000.000	5562.073	8955.77	0.6904	P	2.2
6	☐	10000.000	10987.729	17630.57	1.3454	P	1.6
7	☐	20000.000	19326.766	33809.46	2.3520	P	0.7
8	☐			266.67	0.0206	P	11.6

$$y = 1.2072E-004 * x + 0.0190$$

$$R = 0.9975$$

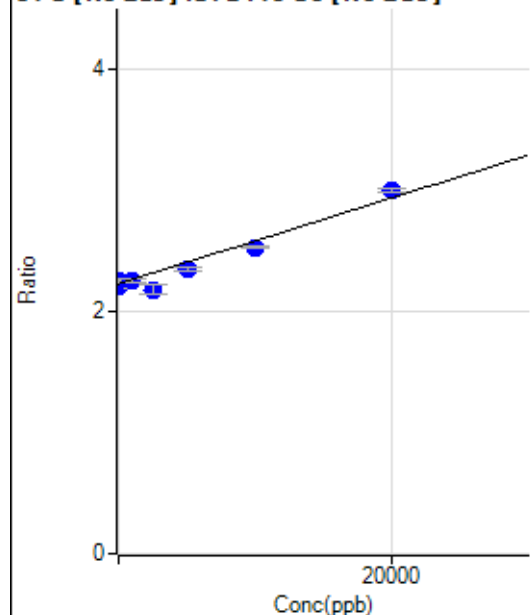
$$DL = 72.97$$

$$BEC = 157.1$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-502.345	571511.41	2.2110	P	1.8
2	☐	0.000	502.345	578115.81	2.2465	P	1.3
3	☐	1000.000	749.640	592255.54	2.2553	P	1.6
4	☐	2500.000	-1345.638	603176.16	2.1811	P	3.0
5	☐	5000.000	3505.532	630583.70	2.3529	P	1.0
6	☐	10000.000	8498.888	684149.88	2.5297	P	1.0
7	☐	20000.000	21617.396	824854.20	2.9943	P	1.0
8	☐			539143.03	2.0121	P	0.4

$$y = 3.5412\text{E-}005 * x + 2.2288$$

$$R = 0.9806$$

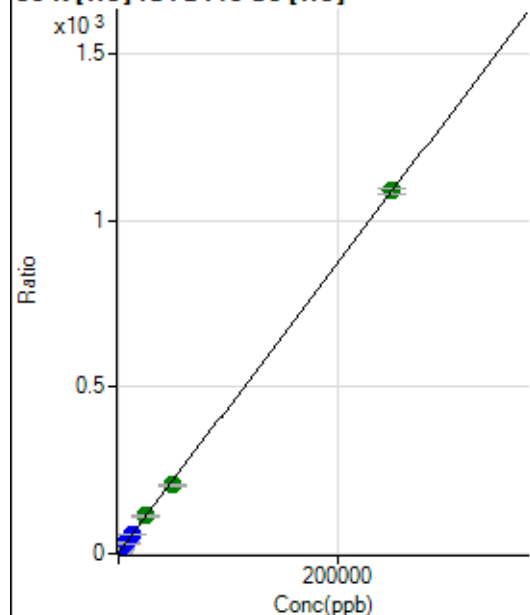
$$DL = 2928$$

$$BEC = 6.294\text{E}+04$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	35627.95	2.8440	P	1.8
2	☐	500.000	485.080	62066.98	4.9493	P	2.4
3	☐	2500.000	2693.050	183878.07	14.5322	P	4.1
4	☐	6250.000	6734.088	408156.18	32.0707	P	3.6
5	☐	12500.000	13127.128	775989.76	59.8171	P	1.4
6	☐	25000.000	25644.253	1494382.90	114.1427	A	5.3
7	☐	50000.000	46766.955	2958385.77	205.8174	A	2.2
8	☐	250000.00	250536.82	14121497.71	1,090.1996	A	1.3

$$y = 0.0043 * x + 2.8440$$

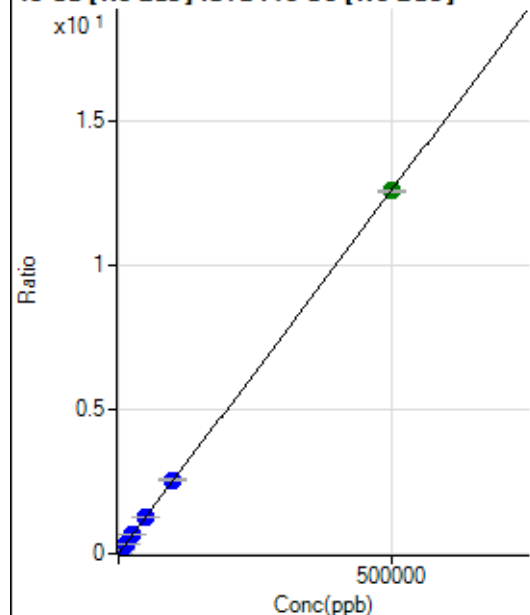
$$R = 0.9999$$

$$DL = 34.56$$

$$BEC = 655.3$$

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	301.64	0.0012	P	5.8
2	☐	500.000	475.314	3385.82	0.0132	P	0.2
3	☐	5000.000	5119.889	34217.88	0.1303	P	1.8
4	☐	12500.000	12177.385	85261.58	0.3083	P	3.0
5	☐	25000.000	25668.086	173821.46	0.6486	P	0.8
6	☐	50000.000	51090.454	348823.80	1.2898	P	0.3
7	☐	100000.00	101630.35	706428.58	2.5645	P	1.8
8	☐	500000.00	499538.37	3376408.48	12.6007	A	0.3

$$y = 2.5222\text{E-}005 * x + 0.0012$$

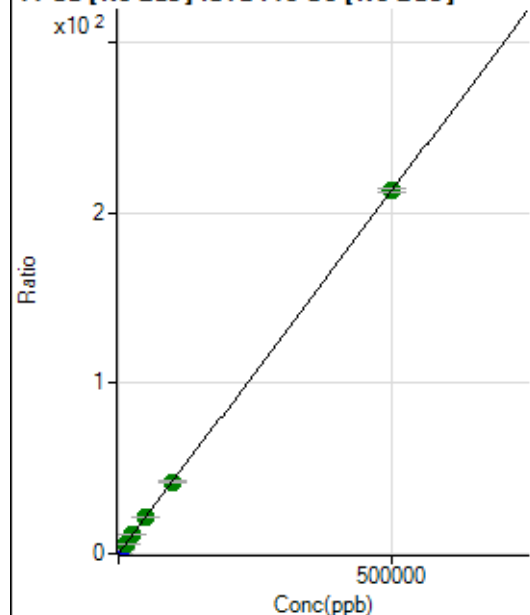
$$R = 1.0000$$

$$DL = 8.067$$

$$BEC = 46.28$$

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	24818.51	0.0960	P	1.8
2	☐	500.000	487.697	78063.54	0.3034	P	1.5
3	☐	5000.000	5050.631	589146.48	2.2433	P	0.8
4	☐	12500.000	12120.192	1451558.42	5.2489	A	3.1
5	☐	25000.000	25318.015	2910535.83	10.8600	A	0.8
6	☐	50000.000	50196.533	5797660.32	21.4371	A	0.5
7	☐	100000.00	99134.541	11636347.80	42.2431	A	1.8
8	☐	500000.00	500146.53	57002992.81	212.7334	A	1.0

$$y = 4.2515\text{E-}004 * x + 0.0960$$

$$R = 1.0000$$

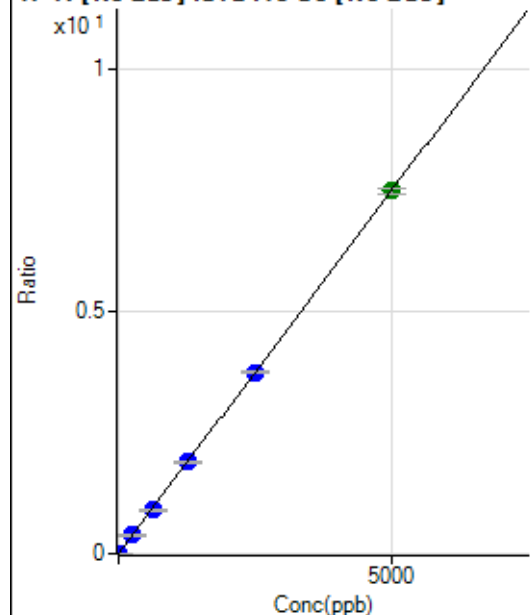
$$DL = 12.1$$

$$BEC = 225.8$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	488.91	0.0019	P	2.4
2	☐	5.000	4.861	2358.59	0.0092	P	8.6
3	☐	250.000	251.272	99217.71	0.3778	P	1.3
4	☐	625.000	601.669	249424.46	0.9020	P	3.5
5	☐	1250.000	1261.639	506358.38	1.8893	P	1.2
6	☐	2500.000	2502.866	1013199.21	3.7463	P	0.5
7	☐	5000.000	4998.510	2060450.85	7.4798	A	1.6
8	☐			730.59	0.0027	P	12.7

$$y = 0.0015 * x + 0.0019$$

$$R = 1.0000$$

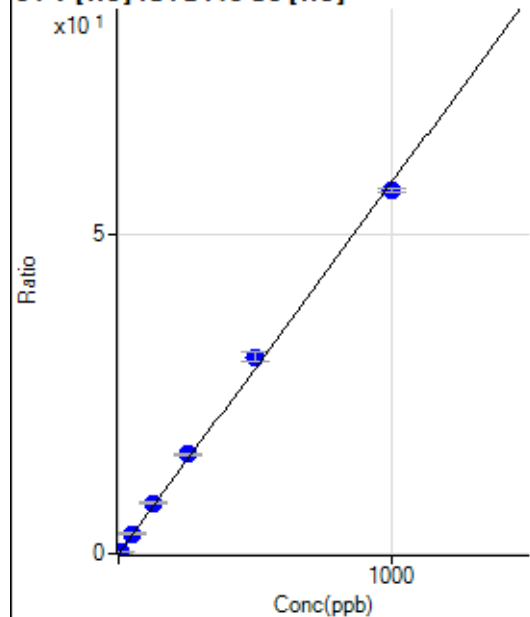
$$DL = 0.09024$$

$$BEC = 1.264$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	7.78	0.0006	P	107.0
2	☐	5.000	5.114	3729.41	0.2975	P	4.7
3	☐	50.000	54.306	39895.42	3.1531	P	4.3
4	☐	125.000	137.072	101286.22	7.9576	P	2.9
5	☐	250.000	268.104	201915.70	15.5640	P	1.2
6	☐	500.000	530.715	403405.56	30.8085	P	4.8
7	☐	1000.000	978.391	816410.73	56.7959	P	1.2
8	☐			173.34	0.0134	P	26.8

$$y = 0.0580 * x + 6.1926E-004$$

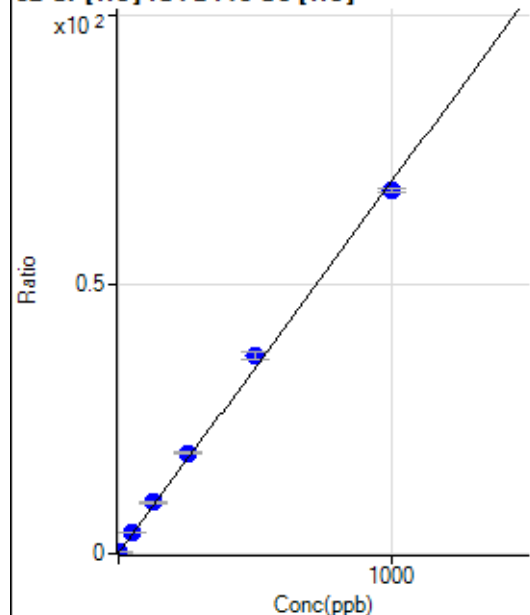
$$R = 0.9991$$

$$DL = 0.03425$$

$$BEC = 0.01067$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	854.48	0.0682	P	8.5
2	☐	2.000	2.147	2711.39	0.2163	P	5.0
3	☐	50.000	55.222	49076.03	3.8779	P	3.3
4	☐	125.000	137.997	122045.42	9.5885	P	3.1
5	☐	250.000	269.945	242486.88	18.6916	P	1.0
6	☐	500.000	534.738	484060.30	36.9595	P	3.9
7	☐	1000.000	975.759	968616.31	67.3854	P	1.2
8	☐			1914.60	0.1478	P	2.6

$$y = 0.0690 * x + 0.0682$$

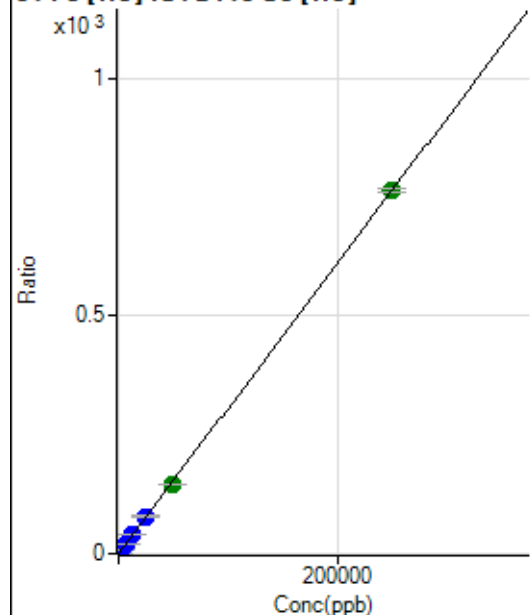
$$R = 0.9988$$

$$DL = 0.2518$$

$$BEC = 0.9879$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	516.69	0.0412	P	3.6
2	☐	50.000	51.284	2479.89	0.1977	P	4.3
3	☐	2500.000	2664.991	103434.49	8.1724	P	2.8
4	☐	6250.000	6689.222	260294.02	20.4507	P	3.1
5	☐	12500.000	12985.194	514506.03	39.6604	P	0.9
6	☐	25000.000	25747.598	1029297.42	78.5998	P	4.3
7	☐	50000.000	48066.911	2108795.43	146.6983	A	1.0
8	☐	250000.00	250274.96	9891345.94	763.6557	A	1.2

$$y = 0.0031 * x + 0.0412$$

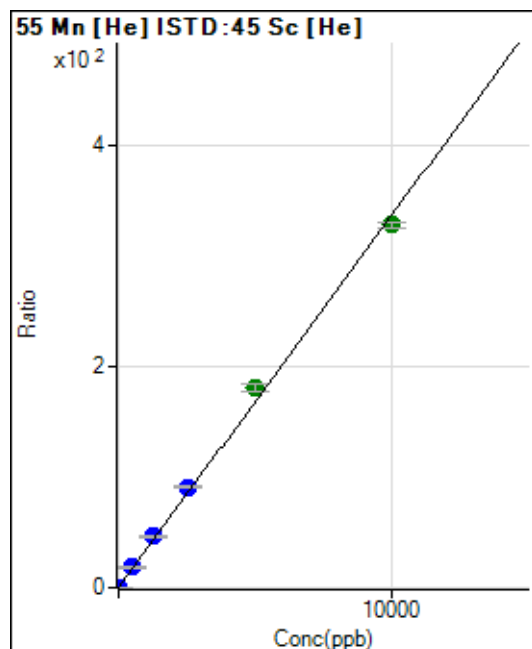
$$R = 1.0000$$

$$DL = 1.461$$

$$BEC = 13.52$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	82.22	0.0066	P	11.9
2	☐	1.000	1.097	545.57	0.0435	P	7.1
3	☐	500.000	552.141	235361.88	18.5992	P	3.6
4	☐	1250.000	1382.967	592835.06	46.5762	P	2.9
5	☐	2500.000	2712.170	1184844.50	91.3354	P	1.5
6	☐	5000.000	5355.862	2362101.70	180.3582	A	4.1
7	☐	10000.000	9749.799	4719275.10	328.3184	A	1.5
8	☐			2983.67	0.2304	P	4.0

$$y = 0.0337 * x + 0.0066$$

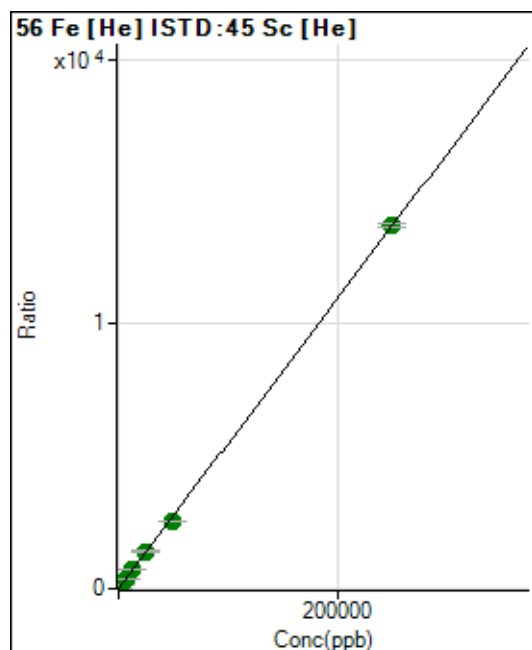
$$R = 0.9987$$

$$DL = 0.06972$$

$$BEC = 0.1947$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3133.74	0.2501	P	0.7
2	☐	50.000	50.581	37826.19	3.0152	P	1.5
3	☐	2500.000	2645.059	1832990.00	144.8468	A	3.5
4	☐	6250.000	6617.660	4607246.46	362.0160	A	3.8
5	☐	12500.000	12843.909	9111883.02	702.3846	A	1.5
6	☐	25000.000	25465.418	18233911.98	1,392.3612	A	4.2
7	☐	50000.000	46461.342	36512923.73	2,540.1396	A	1.1
8	☐	250000.00	250633.35	177472285.4	13,701.555	A	1.1

$$y = 0.0547 * x + 0.2501$$

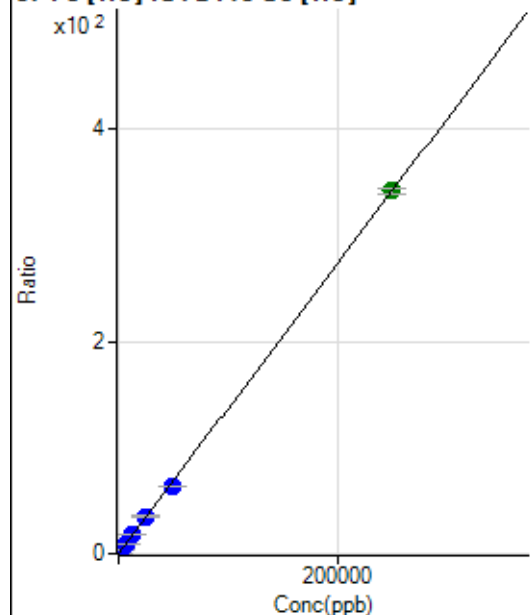
$$R = 0.9999$$

$$DL = 0.09863$$

$$BEC = 4.576$$

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	153.71	0.0123	P	20.4
2	☐	50.000	50.704	1022.28	0.0814	P	4.5
3	☐	2500.000	2648.948	45881.19	3.6261	P	4.2
4	☐	6250.000	6579.123	114393.16	8.9878	P	3.2
5	☐	12500.000	12879.048	228093.15	17.5825	P	1.2
6	☐	25000.000	25360.942	453200.35	34.6109	P	4.7
7	☐	50000.000	46280.513	907740.57	63.1503	P	1.2
8	☐	250000.00	250679.13	4429790.52	342.0005	A	1.2

$$y = 0.0014 * x + 0.0123$$

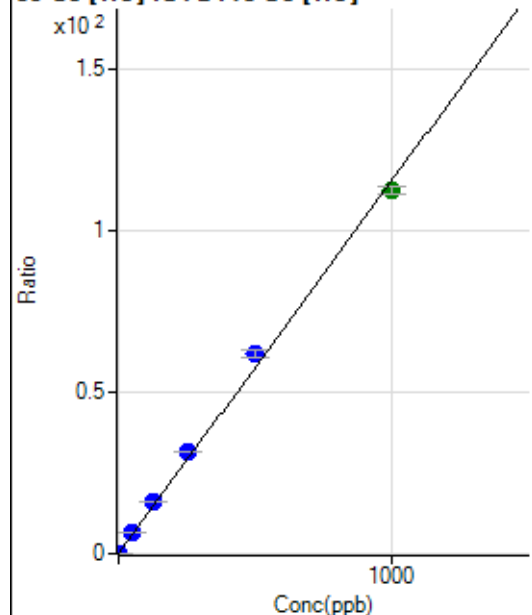
$$R = 0.9999$$

$$DL = 5.514$$

$$BEC = 8.993$$

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	35.56	0.0028	P	15.4
2	☐	1.000	1.058	1563.43	0.1247	P	6.0
3	☐	50.000	55.924	81560.71	6.4453	P	3.7
4	☐	125.000	139.467	204535.57	16.0694	P	2.9
5	☐	250.000	272.281	406949.87	31.3695	P	0.9
6	☐	500.000	536.911	809964.41	61.8546	P	4.6
7	☐	1000.000	973.870	1612638.41	112.1920	A	2.0
8	☐			2635.83	0.2035	P	4.2

$$y = 0.1152 * x + 0.0028$$

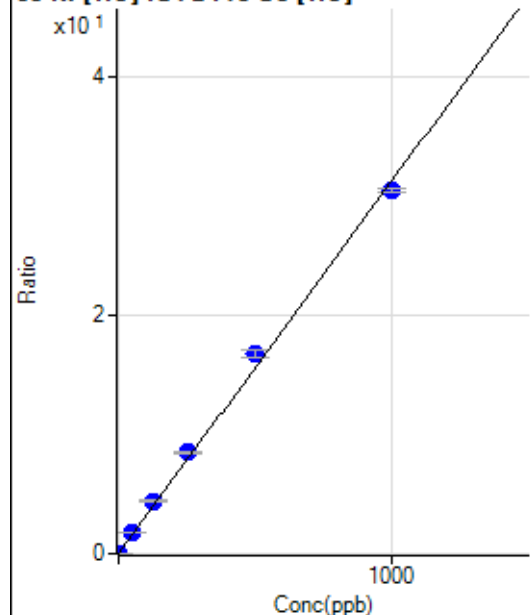
$$R = 0.9986$$

$$DL = 0.01137$$

$$BEC = 0.02466$$

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	92.22	0.0074	P	12.2
2	☐	1.000	1.038	498.90	0.0398	P	8.6
3	☐	50.000	56.140	22256.41	1.7587	P	3.9
4	☐	125.000	139.869	55633.65	4.3708	P	2.9
5	☐	250.000	272.079	110207.28	8.4953	P	2.1
6	☐	500.000	535.166	218742.81	16.7027	P	4.0
7	☐	1000.000	974.732	437202.79	30.4156	P	1.2
8	☐			532.24	0.0411	P	2.3

$$y = 0.0312 * x + 0.0074$$

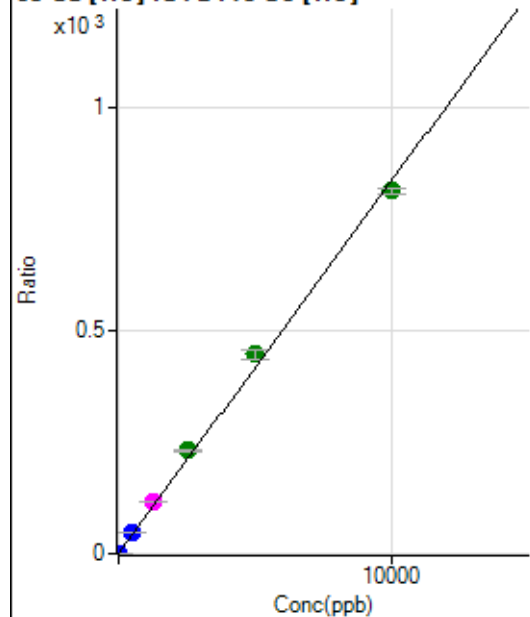
$$R = 0.9987$$

$$DL = 0.08676$$

$$BEC = 0.2361$$

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	482.68	0.0385	P	4.0
2	☐	2.000	2.215	2801.04	0.2233	P	1.7
3	☐	500.000	560.702	592349.89	46.8110	P	3.8
4	☐	1250.000	1397.927	1484915.65	116.6503	M	2.3
5	☐	2500.000	2768.364	2996357.46	230.9690	A	0.8
6	☐	5000.000	5352.804	5846678.36	446.5569	A	5.1
7	☐	10000.000	9734.981	11673403.74	812.1077	A	1.4
8	☐			3958.84	0.3057	P	4.8

$$y = 0.0834 * x + 0.0385$$

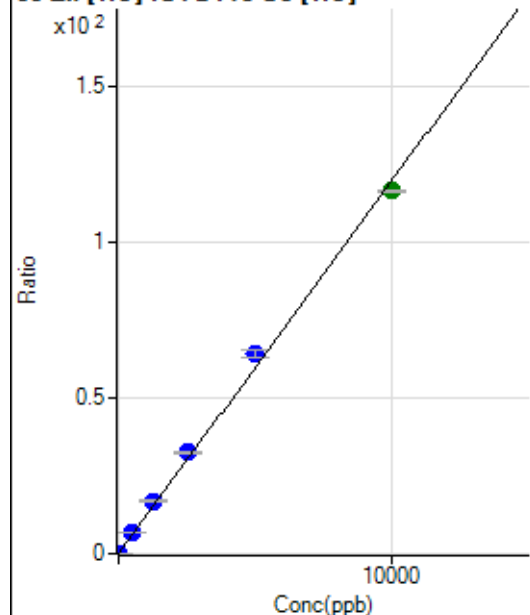
$$R = 0.9986$$

$$DL = 0.05582$$

$$BEC = 0.462$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	104.44	0.0083	P	18.8
2	☐	2.000	2.150	426.68	0.0340	P	4.5
3	☐	500.000	560.868	84814.99	6.7021	P	3.4
4	☐	1250.000	1395.410	212059.42	16.6620	P	3.4
5	☐	2500.000	2721.908	421523.31	32.4933	P	1.1
6	☐	5000.000	5362.941	838312.15	64.0130	P	4.2
7	☐	10000.000	9741.833	1671374.23	116.2734	A	0.9
8	☐			2111.29	0.1630	P	1.6

$$y = 0.0119 * x + 0.0083$$

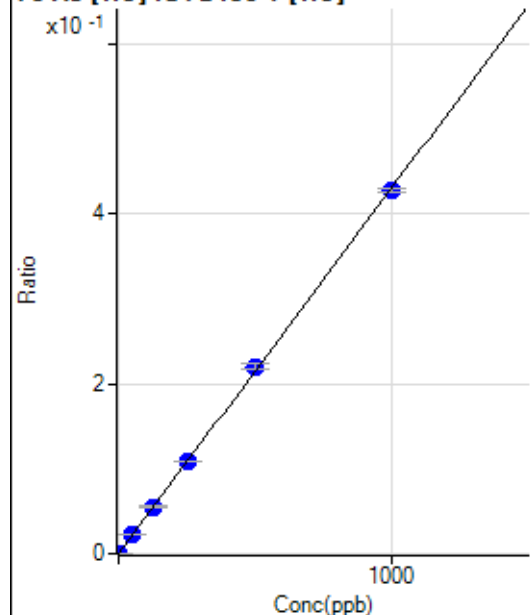
$$R = 0.9987$$

$$DL = 0.3951$$

$$BEC = 0.6991$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.00	0.0000	P	46.5
2	☐	1.000	1.008	136.02	0.0005	P	5.5
3	☐	50.000	51.090	6367.09	0.0220	P	3.0
4	☐	125.000	128.514	15921.90	0.0553	P	3.3
5	☐	250.000	250.480	31958.52	0.1077	P	0.4
6	☐	500.000	513.025	63295.47	0.2206	P	2.2
7	☐	1000.000	992.874	128507.08	0.4270	P	0.9
8	☐			49.34	0.0002	P	11.8

$$y = 4.2999E-004 * x + 4.2254E-005$$

$$R = 0.9999$$

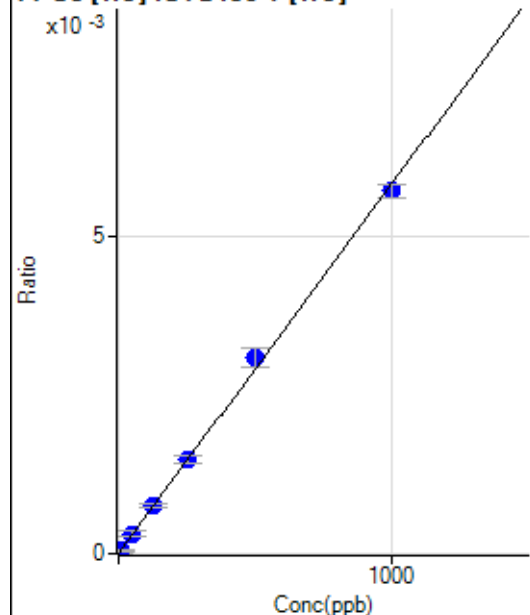
$$DL = 0.1372$$

$$BEC = 0.09827$$

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	1.11	0.0000	P	173.2
2	☐	5.000	8.045	14.45	0.0001	P	48.8
3	☐	50.000	53.272	91.11	0.0003	P	28.9
4	☐	125.000	130.110	218.89	0.0008	P	7.6
5	☐	250.000	255.405	441.12	0.0015	P	7.8
6	☐	500.000	531.356	886.71	0.0031	P	9.5
7	☐	1000.000	982.153	1717.90	0.0057	P	3.9
8	☐			2.22	0.0000	P	86.6

$$y = 5.8088\text{E-}006 * x + 3.9249\text{E-}006$$

$$R = 0.9993$$

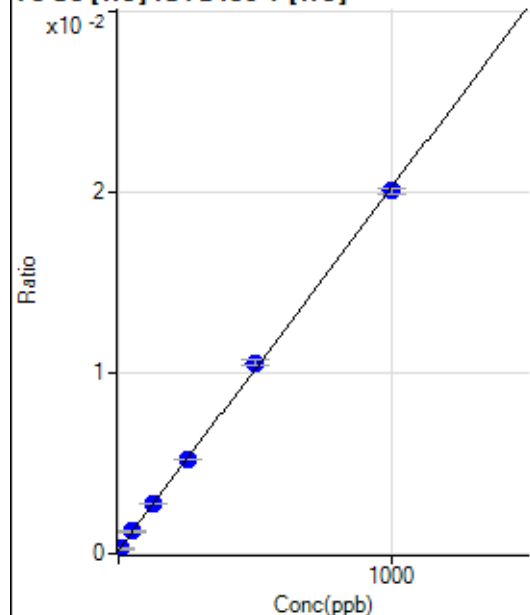
$$DL = 3.511$$

$$BEC = 0.6757$$

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	54.01	0.0002	P	8.5
2	☐	5.000	4.848	82.01	0.0003	P	16.0
3	☐	50.000	52.377	358.37	0.0012	P	7.3
4	☐	125.000	127.501	790.77	0.0027	P	1.6
5	☐	250.000	250.314	1544.24	0.0052	P	1.4
6	☐	500.000	517.062	3026.64	0.0106	P	3.0
7	☐	1000.000	990.960	6033.57	0.0200	P	1.4
8	☐			54.68	0.0002	P	2.3

$$y = 2.0038\text{E-}005 * x + 1.9017\text{E-}004$$

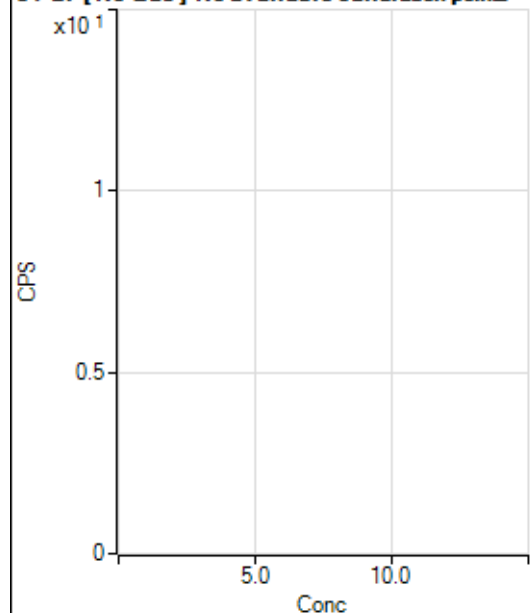
$$R = 0.9998$$

$$DL = 2.423$$

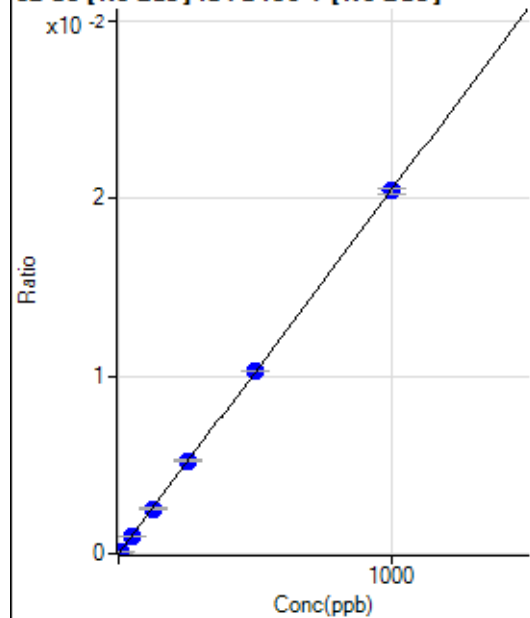
$$BEC = 9.491$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2713.06		P	3.3
2	☐			2365.98		P	8.6
3	☐			2586.25		P	4.0
4	☐			2693.05		P	6.8
5	☐			2719.73		P	3.3
6	☐			2489.46		P	12.0
7	☐			2649.67		P	1.4
8	☐			2652.99		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	-32.44	0.0000	P	-240.
2	☐	5.000	5.807	243.76	0.0001	P	18.9
3	☐	50.000	49.748	2360.56	0.0010	P	1.8
4	☐	125.000	122.768	6111.90	0.0025	P	3.5
5	☐	250.000	254.321	12536.69	0.0052	P	2.3
6	☐	500.000	502.269	24849.90	0.0103	P	0.4
7	☐	1000.000	998.073	50141.32	0.0204	P	1.5
8	☐			-18.69	0.0000	P	-273.

$$y = 2.0480E-005 * x - 1.4214E-005$$

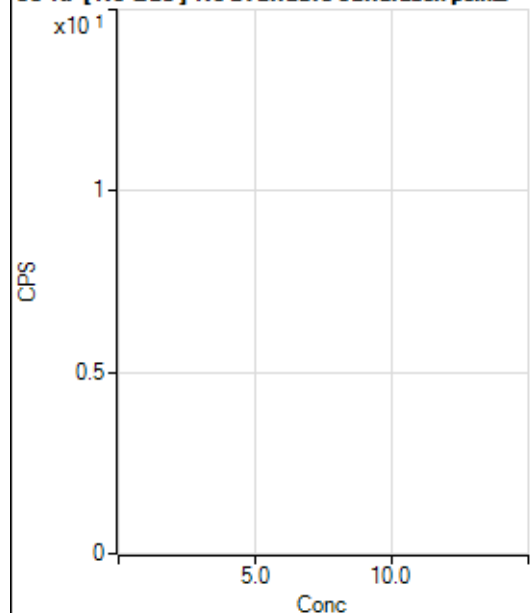
$$R = 1.0000$$

$$DL = 5.01$$

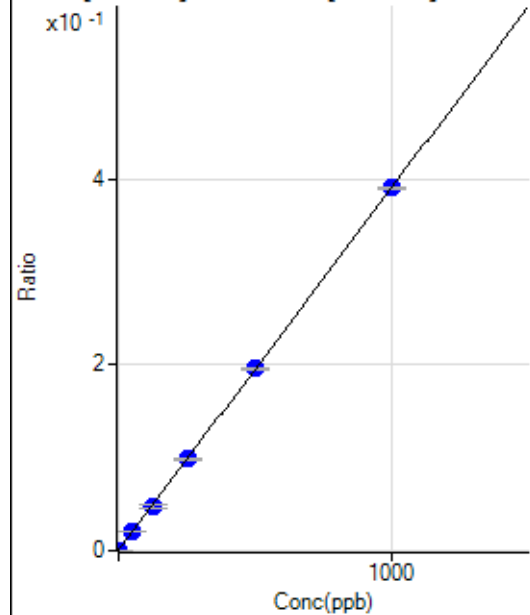
$$BEC = -0.694$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			648.91		P	9.5
2	☐			623.35		P	1.9
3	☐			653.36		P	3.1
4	☐			633.35		P	2.3
5	☐			637.80		P	9.8
6	☐			656.69		P	9.7
7	☐			626.69		P	3.7
8	☐			668.91		P	6.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	969.51	0.0004	P	7.5
2	☐	1.000	0.984	1877.96	0.0008	P	7.6
3	☐	50.000	51.016	47779.32	0.0203	P	1.0
4	☐	125.000	121.232	116647.82	0.0477	P	5.4
5	☐	250.000	251.576	238039.42	0.0986	P	1.6
6	☐	500.000	500.294	473424.72	0.1957	P	1.0
7	☐	1000.000	999.879	959144.16	0.3907	P	0.7
8	☐			6084.83	0.0025	P	2.6

$$y = 3.9034E-004 * x + 4.2123E-004$$

$$R = 1.0000$$

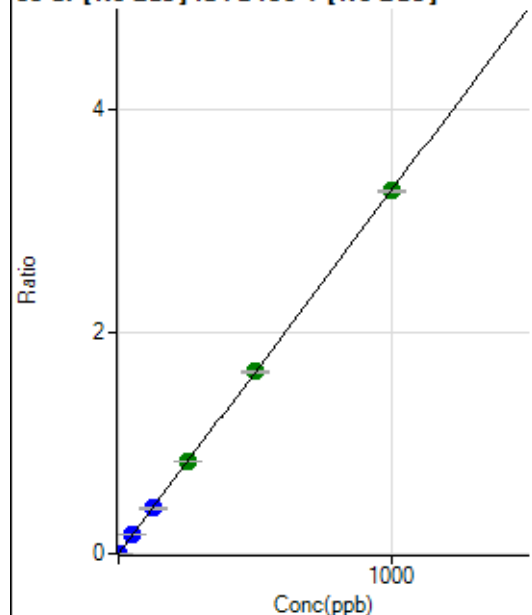
$$DL = 0.2442$$

$$BEC = 1.079$$

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	75.00	0.0000	P	30.2
2	☐	1.000	0.916	7068.63	0.0030	P	6.2
3	☐	50.000	51.502	396408.20	0.1687	P	0.4
4	☐	125.000	125.542	1005205.49	0.4112	P	3.3
5	☐	250.000	253.943	2007687.18	0.8317	A	0.6
6	☐	500.000	500.880	3968578.69	1.6405	A	0.4
7	☐	1000.000	998.432	8027657.47	3.2701	A	0.4
8	☐			42802.42	0.0179	P	1.3

$$y = 0.0033 * x + 3.2626E-005$$

$$R = 1.0000$$

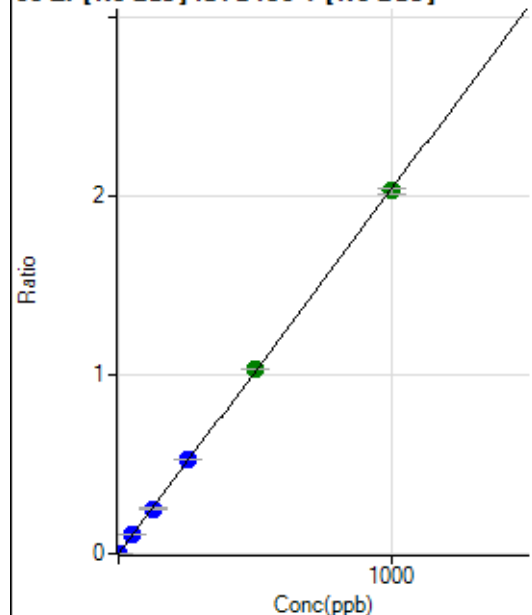
$$DL = 0.009026$$

$$BEC = 0.009962$$

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	33.33	0.0000	P	50.3
2	☐	1.000	0.936	4484.17	0.0019	P	6.4
3	☐	50.000	50.777	243369.85	0.1036	P	0.5
4	☐	125.000	122.705	611799.44	0.2503	P	3.3
5	☐	250.000	257.114	1265858.18	0.5244	P	0.7
6	☐	500.000	506.543	2499263.75	1.0332	A	1.0
7	☐	1000.000	995.198	4982603.84	2.0298	A	1.3
8	☐			1219.53	0.0005	P	4.6

$$y = 0.0020 * x + 1.4475E-005$$

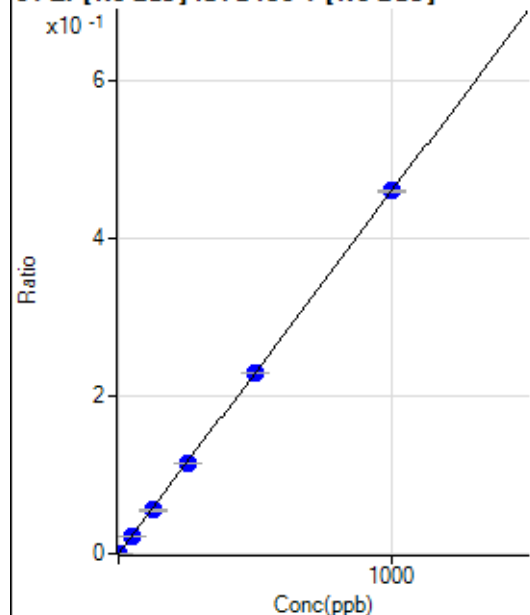
$$R = 0.9999$$

$$DL = 0.0107$$

$$BEC = 0.007097$$

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	30.56	0.0000	P	32.1
2	☐	1.000	1.032	1138.96	0.0005	P	8.5
3	☐	50.000	49.626	53698.48	0.0229	P	0.7
4	☐	125.000	121.299	136464.44	0.0558	P	4.5
5	☐	250.000	249.167	276859.37	0.1147	P	0.5
6	☐	500.000	499.043	555680.86	0.2297	P	1.0
7	☐	1000.000	1001.168	1131205.40	0.4608	P	0.6
8	☐			277.79	0.0001	P	21.0

$$y = 4.6026\text{E-}004 * x + 1.3292\text{E-}005$$

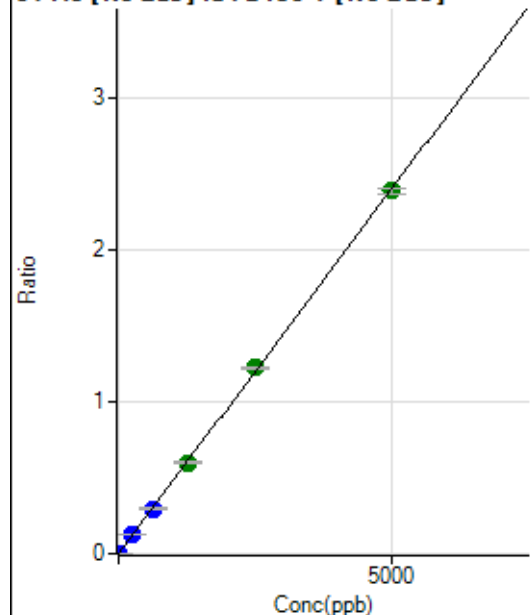
$$R = 1.0000$$

$$DL = 0.02782$$

$$BEC = 0.02888$$

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	52.78	0.0000	P	59.8
2	☐	5.000	4.846	5462.32	0.0023	P	5.4
3	☐	250.000	255.204	287282.71	0.1223	P	1.1
4	☐	625.000	616.261	721511.11	0.2952	P	4.1
5	☐	1250.000	1251.828	1447405.35	0.5997	A	1.2
6	☐	2500.000	2548.098	2952589.06	1.2206	A	1.6
7	☐	5000.000	4976.327	5851288.67	2.3837	A	1.6
8	☐			2089.11	0.0009	P	12.3

$$y = 4.7901\text{E-}004 * x + 2.2899\text{E-}005$$

$$R = 0.9999$$

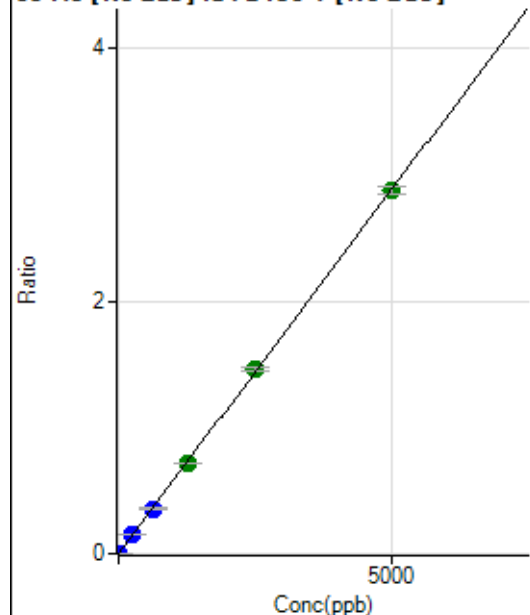
$$DL = 0.08579$$

$$BEC = 0.04781$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	32.1
2	☐	5.000	4.806	6490.59	0.0028	P	0.7
3	☐	250.000	255.768	346589.05	0.1475	P	1.2
4	☐	625.000	618.589	871746.16	0.3567	P	4.6
5	☐	1250.000	1248.885	1738482.51	0.7202	A	0.9
6	☐	2500.000	2533.291	3533894.39	1.4609	A	1.4
7	☐	5000.000	4984.146	7055008.32	2.8742	A	2.1
8	☐			2892.04	0.0012	P	13.6

$$y = 5.7667\text{E-}004 * x + 1.3292\text{E-}005$$

$$R = 1.0000$$

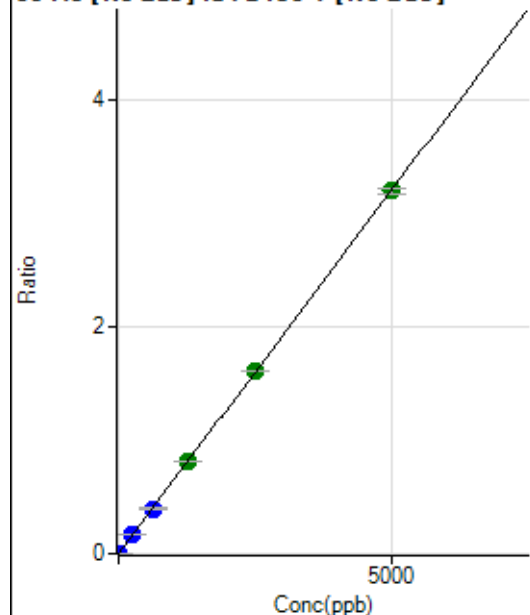
$$DL = 0.02221$$

$$BEC = 0.02305$$

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	69.45	0.0000	P	26.1
2	☐	5.000	4.809	7246.53	0.0031	P	2.8
3	☐	250.000	255.742	384731.90	0.1637	P	0.9
4	☐	625.000	619.942	969917.49	0.3969	P	4.4
5	☐	1250.000	1267.493	1958595.57	0.8114	A	1.0
6	☐	2500.000	2507.711	3883445.79	1.6054	A	0.4
7	☐	5000.000	4992.117	7844481.42	3.1958	A	1.9
8	☐			3570.00	0.0015	P	13.1

$$y = 6.4016\text{E-}004 * x + 3.0244\text{E-}005$$

$$R = 1.0000$$

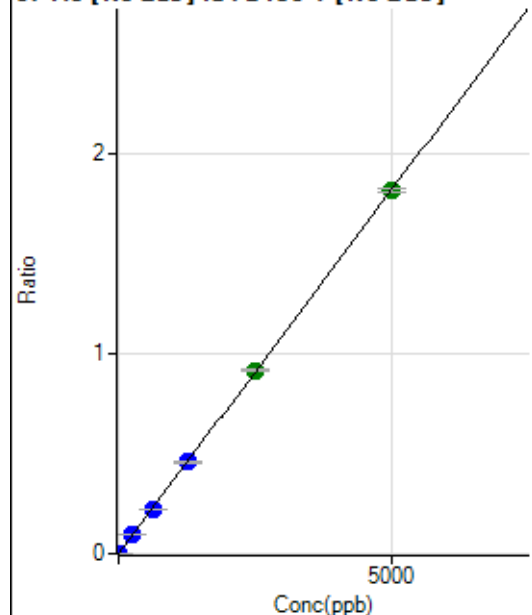
$$DL = 0.03705$$

$$BEC = 0.04724$$

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	13.89	0.0000	P	69.9
2	☐	5.000	4.989	4239.66	0.0018	P	8.6
3	☐	250.000	254.296	216956.26	0.0923	P	0.9
4	☐	625.000	610.903	542288.38	0.2218	P	2.9
5	☐	1250.000	1257.922	1102448.70	0.4567	P	1.4
6	☐	2500.000	2523.215	2216241.17	0.9162	A	0.7
7	☐	5000.000	4987.959	4445755.13	1.8111	A	1.0
8	☐			1625.14	0.0007	P	20.7

$$y = 3.6309\text{E-}004 * x + 6.0486\text{E-}006$$

$$R = 1.0000$$

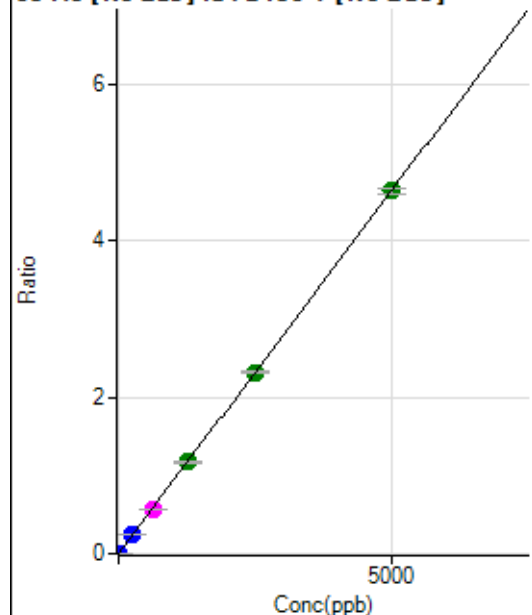
$$DL = 0.03493$$

$$BEC = 0.01666$$

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	13.89	0.0000	P	92.2
2	☐	5.000	4.793	10368.04	0.0044	P	0.5
3	☐	250.000	253.913	552898.99	0.2353	P	0.6
4	☐	625.000	609.045	1379705.55	0.5644	M	3.4
5	☐	1250.000	1265.053	2829853.95	1.1724	A	1.7
6	☐	2500.000	2498.320	5600786.67	2.3153	A	1.0
7	☐	5000.000	4998.876	11371945.31	4.6326	A	1.3
8	☐			4300.78	0.0018	P	5.0

$$y = 9.2673\text{E-}004 * x + 6.0191\text{E-}006$$

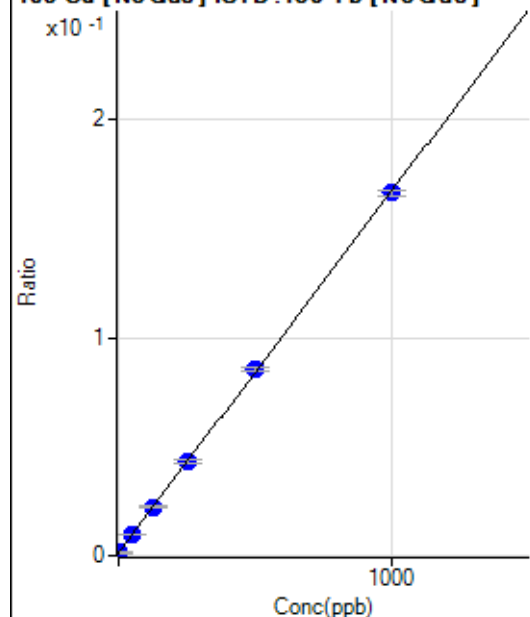
$$R = 1.0000$$

$$DL = 0.01796$$

$$BEC = 0.006495$$

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	502.80	0.0013	P	23.4
2	☐	1.000	0.645	550.03	0.0014	P	17.5
3	☐	50.000	49.934	3803.41	0.0096	P	5.4
4	☐	125.000	125.673	9281.11	0.0222	P	4.4
5	☐	250.000	255.012	18037.20	0.0436	P	4.0
6	☐	500.000	507.125	35412.82	0.0855	P	2.3
7	☐	1000.000	995.104	70410.24	0.1666	P	1.8
8	☐			608.37	0.0015	P	8.6

$$y = 1.6609\text{E-}004 * x + 0.0013$$

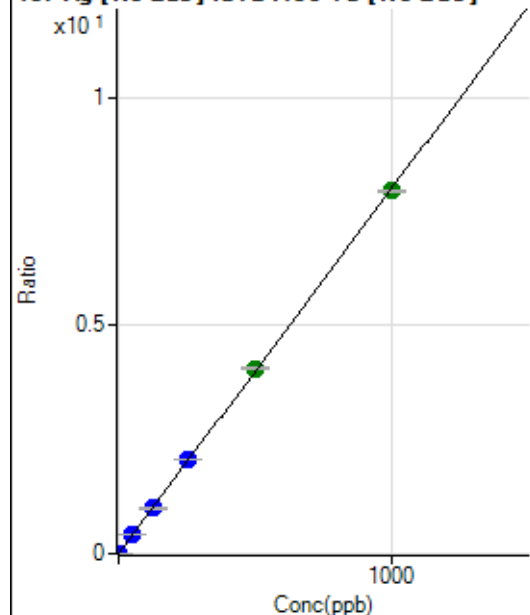
$$R = 0.9999$$

$$DL = 5.456$$

$$BEC = 7.784$$

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	36.11	0.0001	P	26.8
2	☐	1.000	0.966	3072.64	0.0078	P	4.7
3	☐	50.000	52.028	165257.65	0.4164	P	1.1
4	☐	125.000	124.868	418466.52	0.9992	P	2.3
5	☐	250.000	256.794	849189.41	2.0549	P	0.6
6	☐	500.000	507.671	1682302.32	4.0623	A	0.8
7	☐	1000.000	994.381	3363467.13	7.9567	A	0.8
8	☐			1705.71	0.0041	P	7.4

$$y = 0.0080 * x + 9.3027\text{E-}005$$

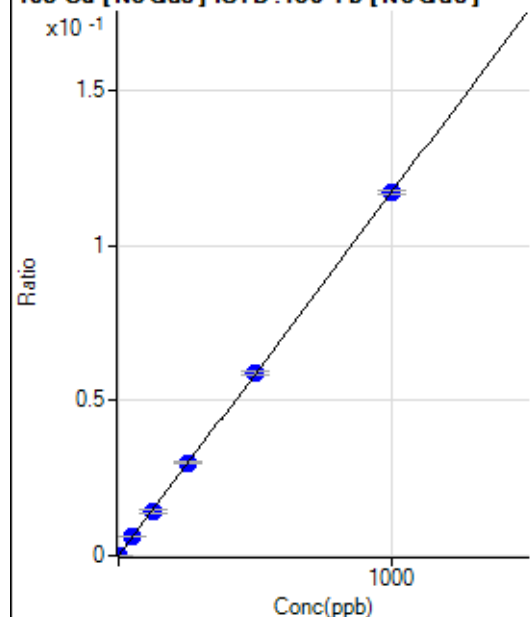
$$R = 0.9999$$

$$DL = 0.009347$$

$$BEC = 0.01163$$

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	11.11	0.0000	P	94.0
2	☐	1.000	1.023	58.33	0.0001	P	21.3
3	☐	50.000	51.990	2425.25	0.0061	P	6.1
4	☐	125.000	120.725	5927.73	0.0142	P	6.0
5	☐	250.000	254.850	12341.80	0.0299	P	1.3
6	☐	500.000	501.560	24327.11	0.0587	P	1.8
7	☐	1000.000	998.442	49424.29	0.1169	P	0.9
8	☐			40.28	0.0001	P	33.6

$$y = 1.1707\text{E-}004 * x + 2.8690\text{E-}005$$

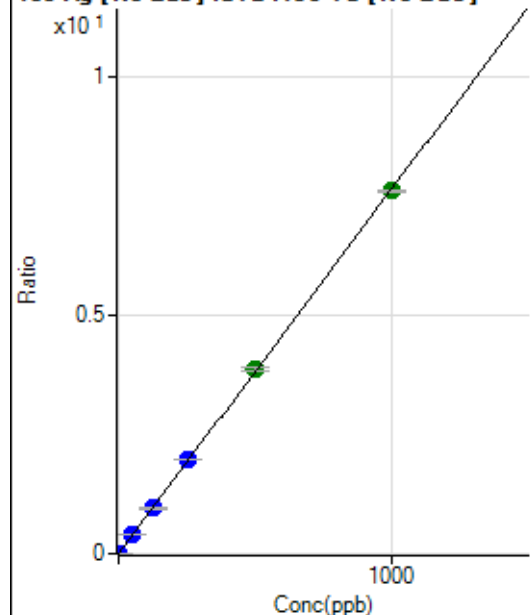
$$R = 1.0000$$

$$DL = 0.6913$$

$$BEC = 0.2451$$

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	36.11	0.0001	P	27.3
2	☐	1.000	0.951	2889.29	0.0074	P	3.2
3	☐	50.000	52.293	158356.35	0.3991	P	3.1
4	☐	125.000	124.922	399252.03	0.9533	P	2.2
5	☐	250.000	257.867	813225.35	1.9678	P	0.6
6	☐	500.000	504.504	1594204.01	3.8498	A	2.0
7	☐	1000.000	995.677	3211813.33	7.5979	A	0.3
8	☐			1502.90	0.0036	P	1.1

$$y = 0.0076 * x + 9.3124\text{E-}005$$

$$R = 0.9999$$

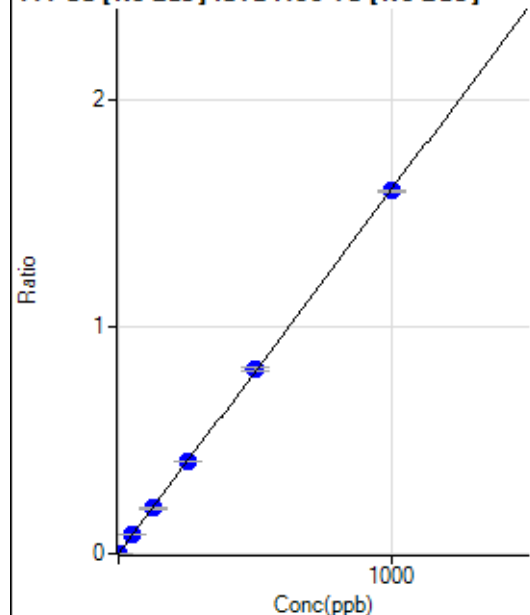
$$DL = 0.009979$$

$$BEC = 0.0122$$

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	352.52	0.0009	P	27.2
2	☐	1.000	0.977	970.60	0.0025	P	11.1
3	☐	50.000	51.759	33258.25	0.0838	P	3.1
4	☐	125.000	123.960	83530.34	0.1995	P	3.1
5	☐	250.000	253.762	168369.86	0.4074	P	1.1
6	☐	500.000	505.615	335785.49	0.8109	P	1.7
7	☐	1000.000	996.294	675056.50	1.5969	P	0.4
8	☐			681.00	0.0016	P	9.1

$$y = 0.0016 * x + 9.0628E-004$$

$$R = 1.0000$$

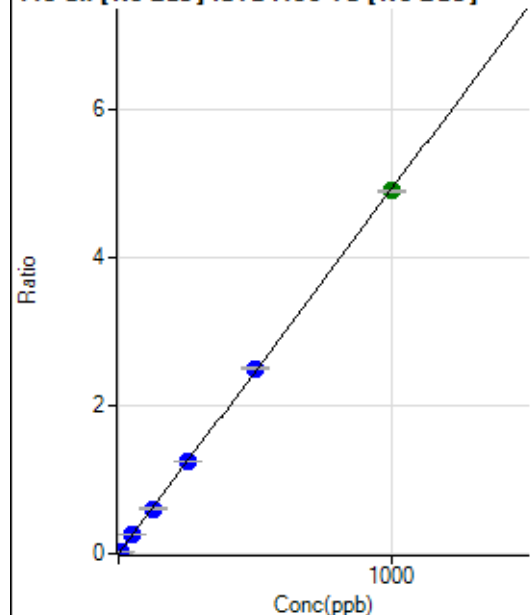
$$DL = 0.461$$

$$BEC = 0.5657$$

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	673.93	0.0017	P	124.6
2	☐	5.000	4.637	9636.98	0.0245	P	5.1
3	☐	50.000	51.818	101721.39	0.2564	P	2.9
4	☐	125.000	123.233	254332.16	0.6073	P	2.2
5	☐	250.000	254.454	517444.03	1.2521	P	0.3
6	☐	500.000	507.238	1032910.62	2.4942	P	1.3
7	☐	1000.000	995.399	2068358.94	4.8930	A	0.8
8	☐			472.24	0.0011	P	17.8

$$y = 0.0049 * x + 0.0017$$

$$R = 0.9999$$

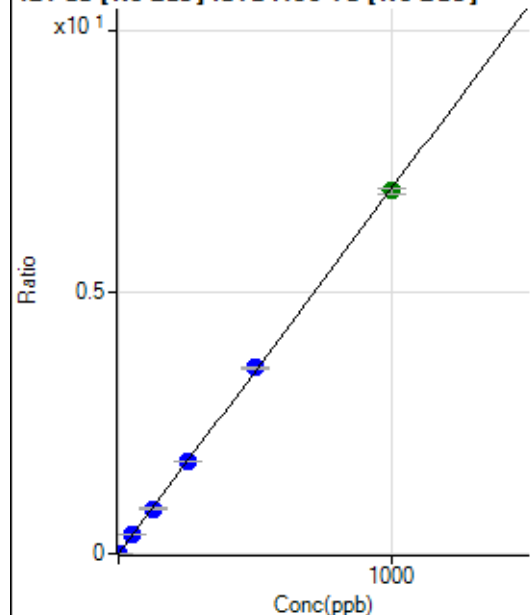
$$DL = 1.33$$

$$BEC = 0.3558$$

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	19.45	0.0001	P	25.7
2	☐	2.000	1.982	5448.48	0.0139	P	3.1
3	☐	50.000	51.728	143167.47	0.3608	P	1.8
4	☐	125.000	123.640	361070.37	0.8623	P	3.0
5	☐	250.000	253.665	731051.32	1.7690	P	1.3
6	☐	500.000	510.469	1474196.27	3.5598	P	1.1
7	☐	1000.000	993.933	2929971.74	6.9313	A	1.3
8	☐			1786.28	0.0043	P	7.3

$$y = 0.0070 * x + 5.0155E-005$$

$$R = 0.9999$$

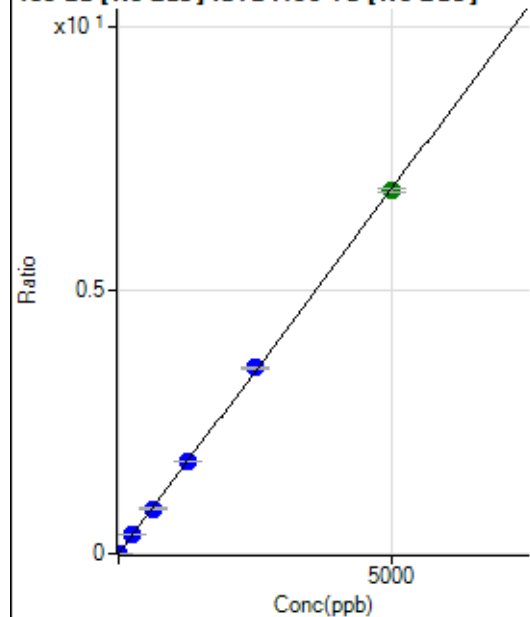
$$DL = 0.005552$$

$$BEC = 0.007192$$

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	22.22	0.0001	P	21.8
2	☐	10.000	9.137	4987.17	0.0127	P	4.7
3	☐	250.000	259.465	142467.61	0.3590	P	1.2
4	☐	625.000	615.426	356553.46	0.8514	P	2.2
5	☐	1250.000	1269.251	725597.87	1.7558	P	1.2
6	☐	2500.000	2544.052	1457362.01	3.5192	P	1.3
7	☐	5000.000	4973.886	2908452.54	6.8804	A	1.2
8	☐			5009.40	0.0121	P	5.6

$$y = 0.0014 * x + 5.7244E-005$$

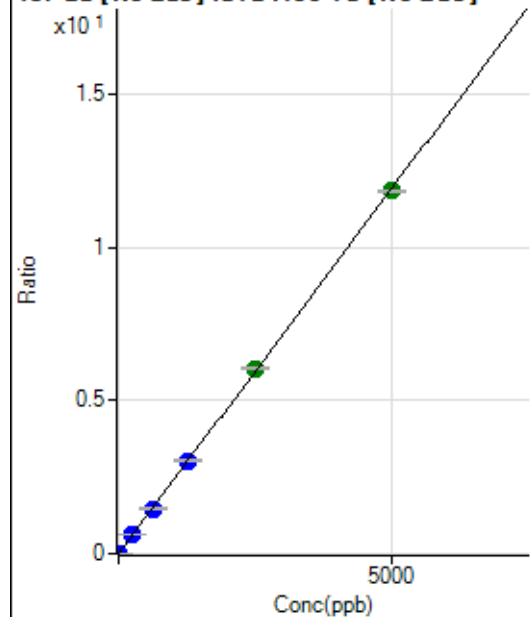
$$R = 0.9999$$

$$DL = 0.02707$$

$$BEC = 0.04138$$

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	22.22	0.0001	P	57.8
2	☐	10.000	9.612	9028.26	0.0230	P	2.9
3	☐	250.000	259.131	245270.48	0.6181	P	2.2
4	☐	625.000	616.976	616316.28	1.4716	P	1.8
5	☐	1250.000	1276.030	1257745.01	3.0434	P	1.4
6	☐	2500.000	2541.647	2510409.76	6.0620	A	1.1
7	☐	5000.000	4973.216	5014065.39	11.8614	A	0.6
8	☐			8797.55	0.0212	P	2.0

$$y = 0.0024 * x + 5.7323E-005$$

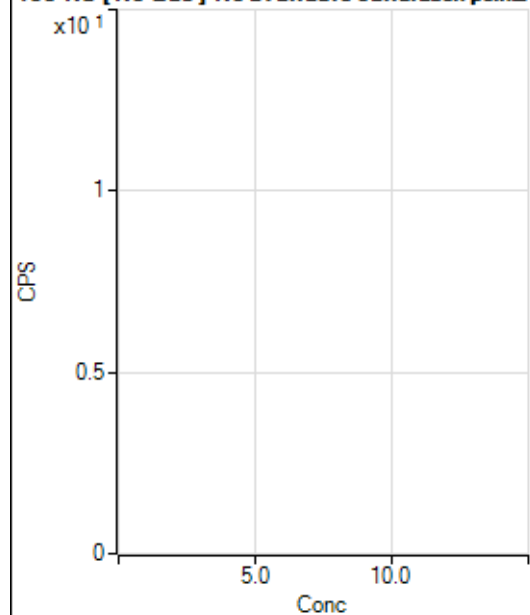
$$R = 0.9999$$

$$DL = 0.04169$$

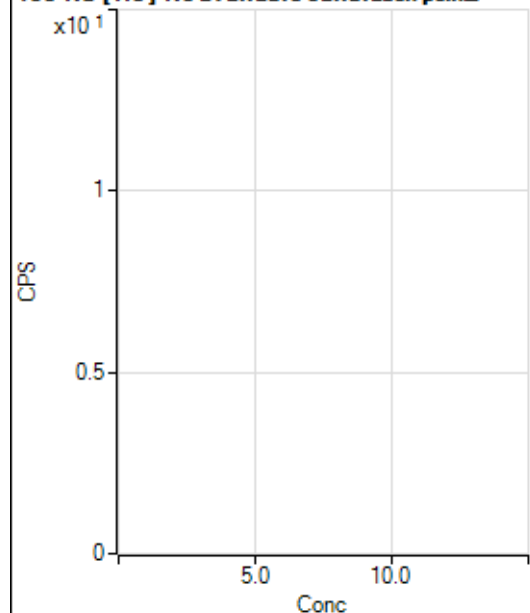
$$BEC = 0.02403$$

Weight: <None>

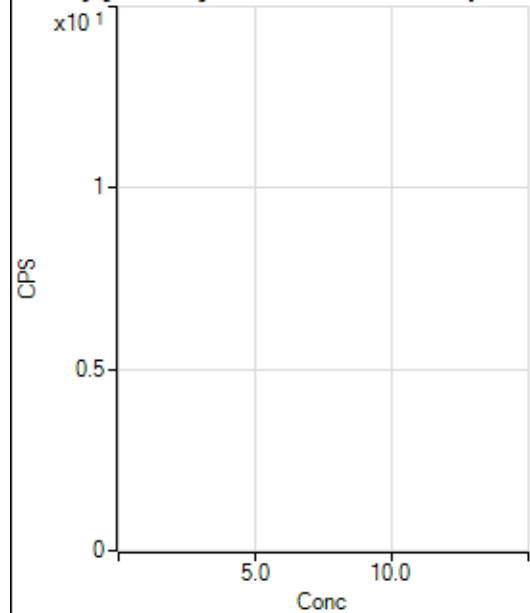
Min Conc: 0

150 Nd [No Gas] No available calibration points

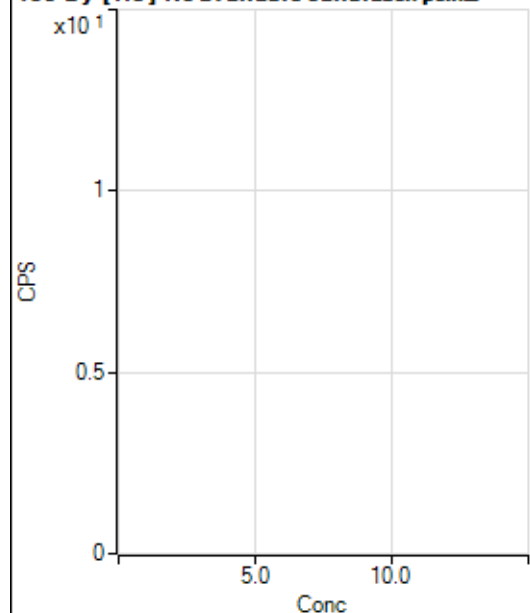
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	69.3
2	☐			24.44		P	41.7
3	☐			20.00		P	33.4
4	☐			22.22		P	62.4
5	☐			15.56		P	49.5
6	☐			42.22		P	39.7
7	☐			93.34		P	31.1
8	☐			20.00		P	33.4

150 Nd [He] No available calibration points

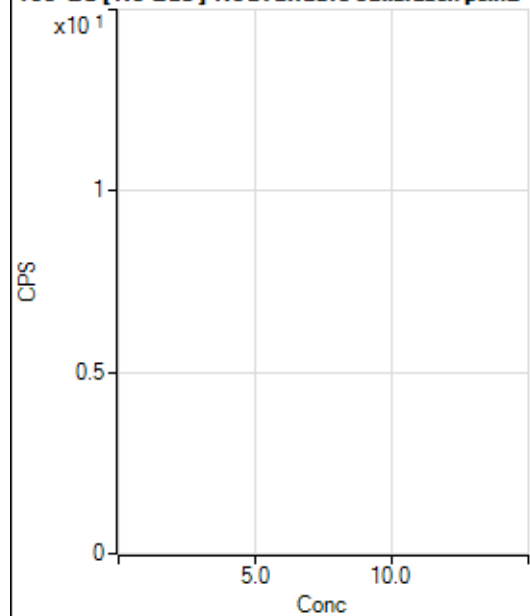
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			1.11		P	173.2
3	☐			3.33		P	100.1
4	☐			0.00		P	
5	☐			1.11		P	173.2
6	☐			4.44		P	43.4
7	☐			8.89		P	21.6
8	☐			1.11		P	173.2

156 Dy [No Gas] No available calibration points

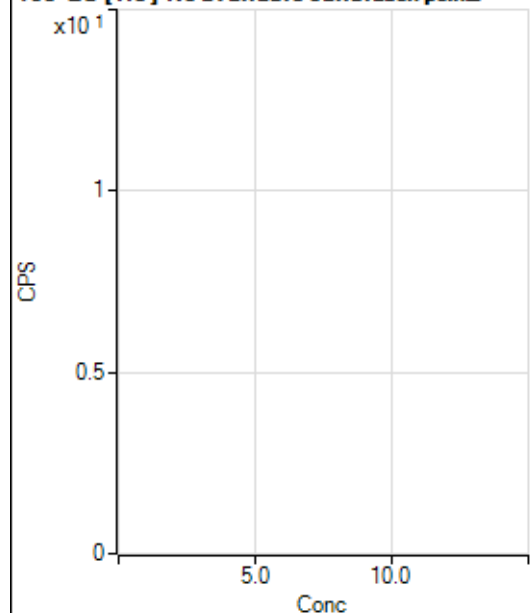
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			5.55		P	86.6
2	☐			5.55		P	86.6
3	☐			5.55		P	86.6
4	☐			19.45		P	24.7
5	☐			27.78		P	45.8
6	☐			38.89		P	65.5
7	☐			44.45		P	10.8
8	☐			147.23		P	11.8

156 Dy [He] No available calibration points

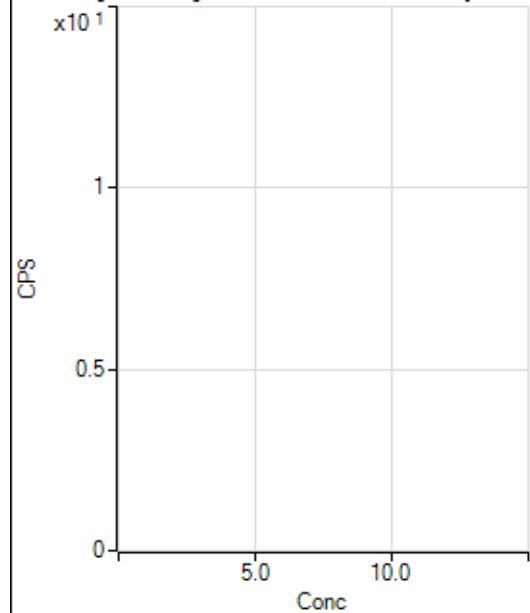
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.22		P	173.2
2	☐			0.00		P	
3	☐			2.22		P	86.6
4	☐			3.33		P	100.1
5	☐			10.00		P	33.3
6	☐			18.89		P	10.2
7	☐			26.66		P	21.7
8	☐			83.33		P	6.9

160 Gd [No Gas] Noavailable calibration poin_

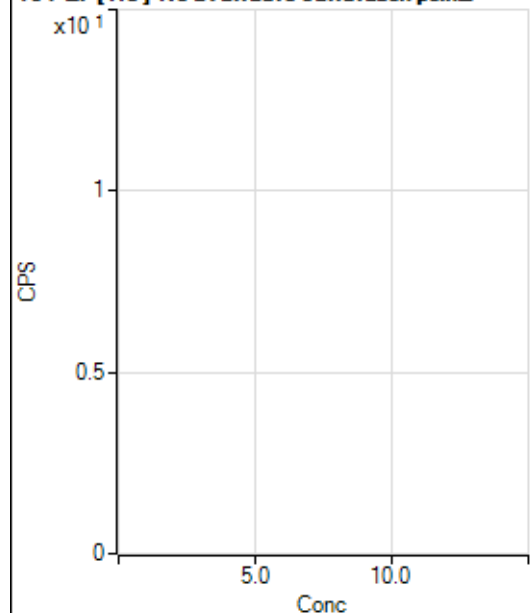
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			13.89		P	34.7
2	☐			5.56		P	173.2
3	☐			13.89		P	34.7
4	☐			19.45		P	24.7
5	☐			27.78		P	96.4
6	☐			25.00		P	57.7
7	☐			77.78		P	27.0
8	☐			186.12		P	20.2

160 Gd [He] No available calibration points

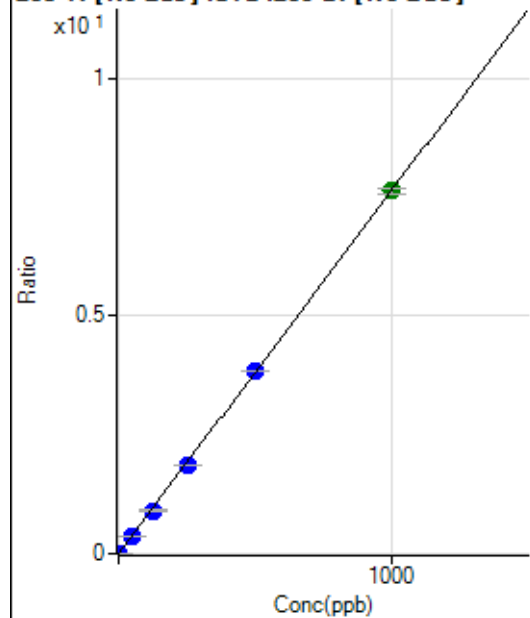
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			0.00		P	
2	☐			2.22		P	86.6
3	☐			2.22		P	86.6
4	☐			5.55		P	124.9
5	☐			5.56		P	91.6
6	☐			12.22		P	31.5
7	☐			28.89		P	53.3
8	☐			91.11		P	23.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐			2.78		P	173.2
2	☐			8.33		P	0.0
3	☐			8.33		P	100.0
4	☐			13.89		P	69.3
5	☐			13.89		P	69.3
6	☐			16.67		P	132.3
7	☐			8.33		P	173.2
8	☐			22.22		P	57.3

164 Er [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	☐			0.00		P	
4	☐			0.00		P	
5	☐			3.33		P	100.1
6	☐			5.56		P	34.7
7	☐			6.66		P	86.6
8	☐			7.78		P	24.7

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	0.0001	P	56.7
2	☐	1.000	0.879	1408.46	0.0068	P	9.5
3	☐	50.000	49.030	79113.52	0.3743	P	1.1
4	☐	125.000	118.354	198579.52	0.9035	P	3.5
5	☐	250.000	246.150	408004.52	1.8789	P	0.0
6	☐	500.000	504.367	825969.58	3.8498	P	0.5
7	☐	1000.000	999.658	1663909.76	7.6303	A	1.8
8	☐			1075.08	0.0052	P	8.6

$$y = 0.0076 * x + 1.0685E-004$$

$$R = 1.0000$$

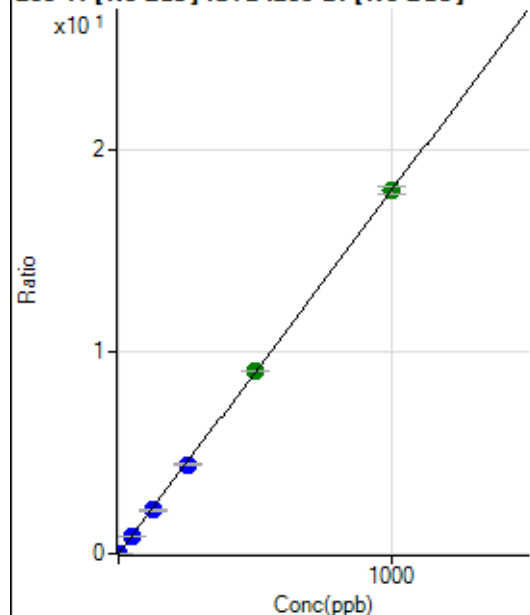
$$DL = 0.02381$$

$$BEC = 0.014$$

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	55.56	0.0003	P	70.2
2	☐	1.000	0.972	3672.86	0.0178	P	7.2
3	☐	50.000	49.531	188372.60	0.8916	P	1.8
4	☐	125.000	119.584	473130.73	2.1523	P	2.5
5	☐	250.000	245.764	960438.39	4.4230	P	1.0
6	☐	500.000	504.508	1947943.14	9.0793	A	0.1
7	☐	1000.000	999.506	3922659.29	17.9871	A	2.2
8	☐			2708.69	0.0130	P	9.7

$$y = 0.0180 * x + 2.6712E-004$$

$$R = 1.0000$$

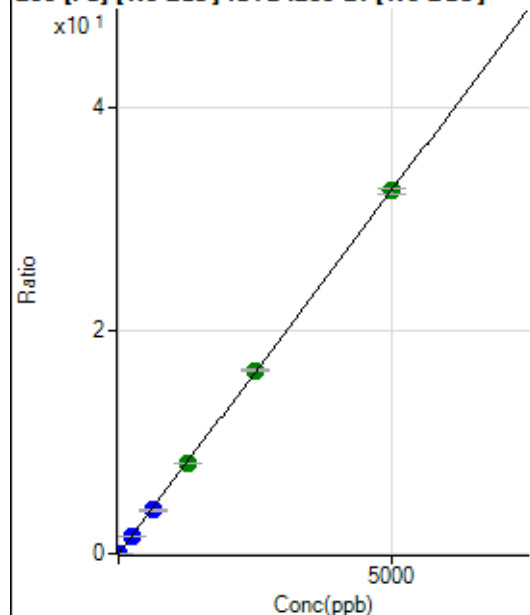
$$DL = 0.03124$$

$$BEC = 0.01484$$

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	225.93	0.0011	P	8.7
2	☐	1.000	0.907	1448.26	0.0070	P	8.4
3	☐	250.000	245.002	337555.84	1.5977	P	1.5
4	☐	625.000	595.998	853951.72	3.8850	P	3.1
5	☐	1250.000	1236.348	1749790.40	8.0580	A	0.4
6	☐	2500.000	2521.202	3525315.21	16.4310	A	0.7
7	☐	5000.000	4996.687	7101417.23	32.5631	A	1.4
8	☐			1379.73	0.0066	P	3.3

$$y = 0.0065 * x + 0.0011$$

$$R = 1.0000$$

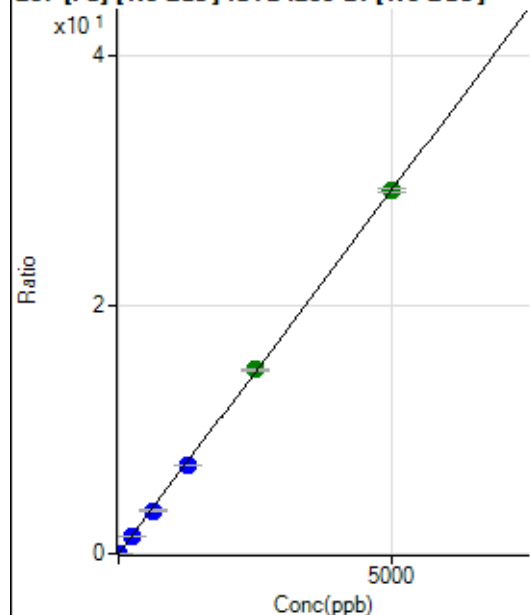
$$DL = 0.04359$$

$$BEC = 0.1673$$

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	255.56	0.0012	P	4.2
2	☐	1.000	0.883	1320.46	0.0064	P	11.8
3	☐	250.000	244.442	301616.84	1.4276	P	1.5
4	☐	625.000	591.580	759097.44	3.4532	P	2.6
5	☐	1250.000	1227.482	1555614.11	7.1638	P	0.5
6	☐	2500.000	2532.634	3171025.04	14.7796	A	1.3
7	☐	5000.000	4993.768	6355030.29	29.1408	A	1.0
8	☐			1185.26	0.0057	P	4.4

$$y = 0.0058 * x + 0.0012$$

$$R = 0.9999$$

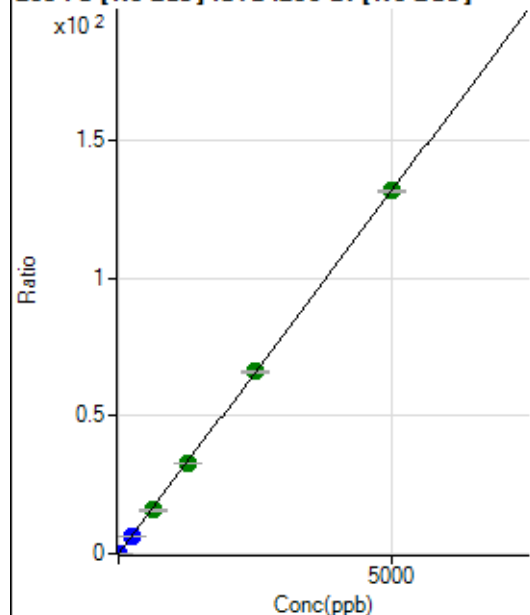
$$DL = 0.02661$$

$$BEC = 0.2114$$

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	996.33	0.0048	P	3.8
2	☐	1.000	0.882	5796.91	0.0280	P	2.6
3	☐	250.000	244.463	1361291.53	6.4435	P	1.9
4	☐	625.000	604.021	3498136.72	15.9136	A	2.7
5	☐	1250.000	1242.391	7106615.88	32.7270	A	0.5
6	☐	2500.000	2507.709	14171840.89	66.0530	A	0.8
7	☐	5000.000	5000.947	28726326.10	131.7201	A	0.2
8	☐			5335.71	0.0256	P	0.8

$$y = 0.0263 * x + 0.0048$$

$$R = 1.0000$$

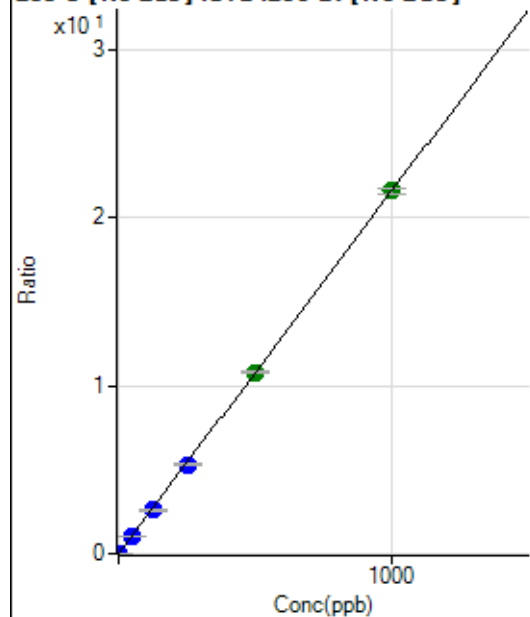
$$DL = 0.02055$$

$$BEC = 0.1826$$

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	11.11	0.0001	P	44.5
2	☐	1.000	0.918	4103.58	0.0198	P	3.1
3	☐	50.000	48.394	220331.32	1.0430	P	2.3
4	☐	125.000	119.895	567976.78	2.5838	P	2.8
5	☐	250.000	246.578	1153914.52	5.3139	P	0.7
6	☐	500.000	500.695	2314990.22	10.7903	A	1.2
7	☐	1000.000	1001.226	4705289.43	21.5770	A	1.6
8	☐			497.25	0.0024	P	10.1

$$y = 0.0216 * x + 5.3794E-005$$

$$R = 1.0000$$

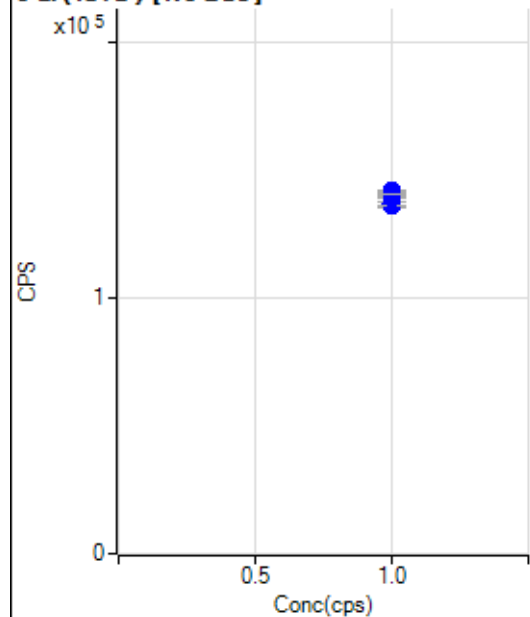
$$DL = 0.003331$$

$$BEC = 0.002496$$

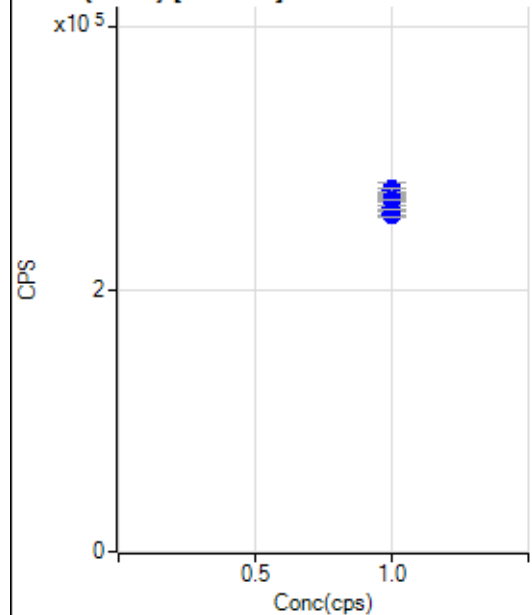
Weight: <None>

Min Conc: 0

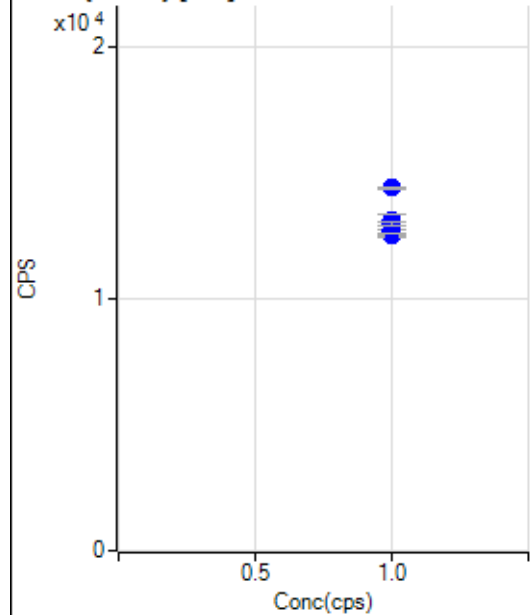
6 Li (ISTD) [No Gas]



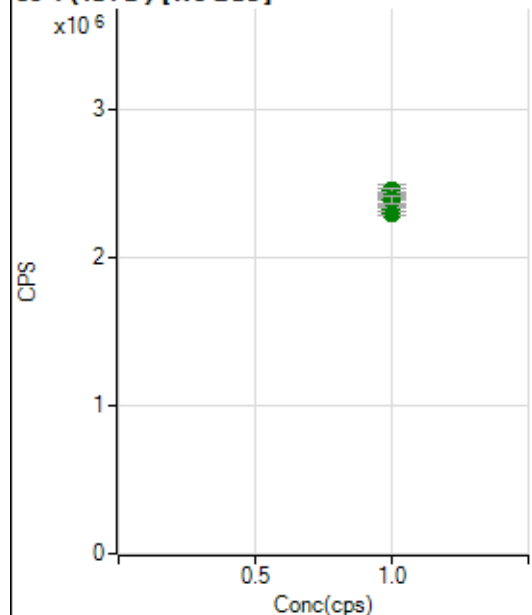
	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		135996.36		P	0.5
2	☐	1.000		136097.53		P	0.4
3	☐	1.000		136915.87		P	1.0
4	☐	1.000		140789.11		P	1.1
5	☐	1.000		139455.18		P	0.1
6	☐	1.000		139698.19		P	0.4
7	☐	1.000		142022.23		P	0.1
8	☐	1.000		141016.93		P	0.2

45 Sc (ISTD) [No Gas]

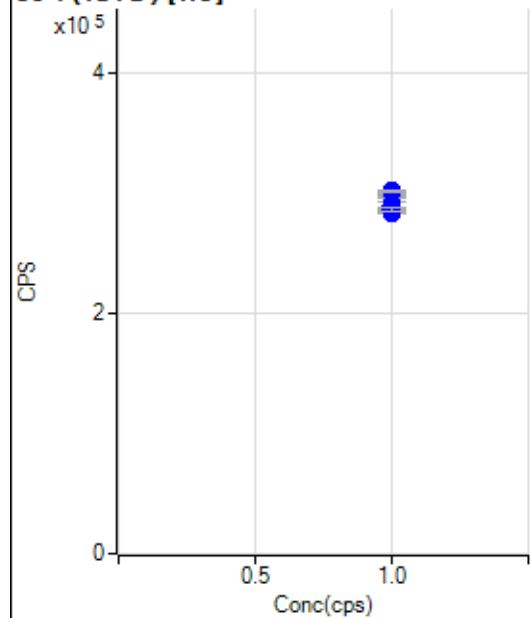
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		258537.66		P	1.6
2	☐	1.000		257365.42		P	1.3
3	☐	1.000		262645.10		P	1.4
4	☐	1.000		276719.43		P	3.1
5	☐	1.000		268020.01		P	1.1
6	☐	1.000		270452.84		P	0.5
7	☐	1.000		275496.66		P	1.1
8	☐	1.000		267953.30		P	0.1

45 Sc (ISTD) [He]

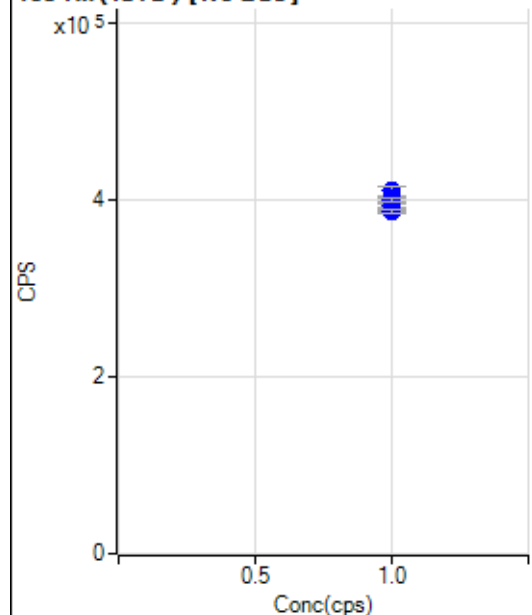
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		12528.89		P	1.2
2	☐	1.000		12545.56		P	2.5
3	☐	1.000		12663.45		P	3.0
4	☐	1.000		12734.61		P	2.6
5	☐	1.000		12973.73		P	1.2
6	☐	1.000		13109.42		P	3.7
7	☐	1.000		14375.07		P	0.7
8	☐	1.000		12953.67		P	1.1

89 Y (ISTD) [No Gas]

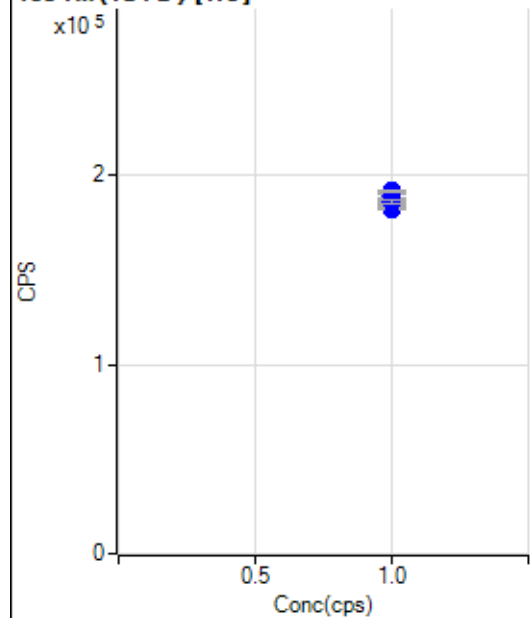
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2301832.24		A	1.4
2	☐	1.000		2330906.56		A	1.5
3	☐	1.000		2349646.51		A	0.5
4	☐	1.000		2446475.85		A	3.7
5	☐	1.000		2413931.94		A	1.1
6	☐	1.000		2419080.52		A	0.3
7	☐	1.000		2454902.69		A	0.9
8	☐	1.000		2390829.81		A	2.0

89 Y (ISTD) [He]

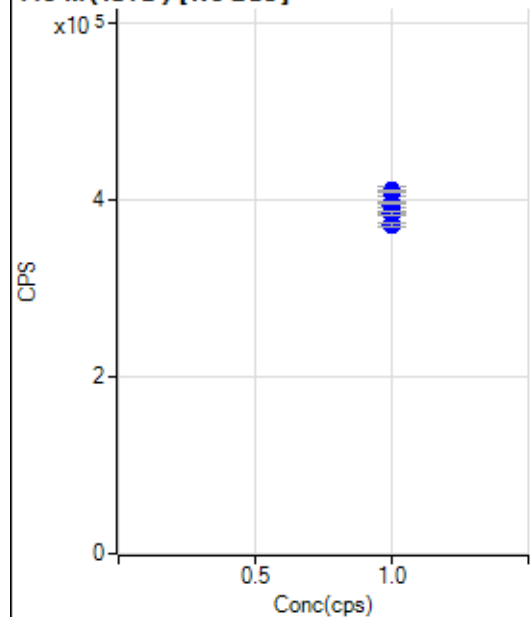
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		284006.84		P	0.6
2	☐	1.000		285894.62		P	1.9
3	☐	1.000		289412.92		P	2.4
4	☐	1.000		288100.53		P	3.0
5	☐	1.000		296612.62		P	0.5
6	☐	1.000		286919.53		P	1.1
7	☐	1.000		300994.70		P	1.3
8	☐	1.000		302008.57		P	0.6

103 Rh (ISTD) [No Gas]

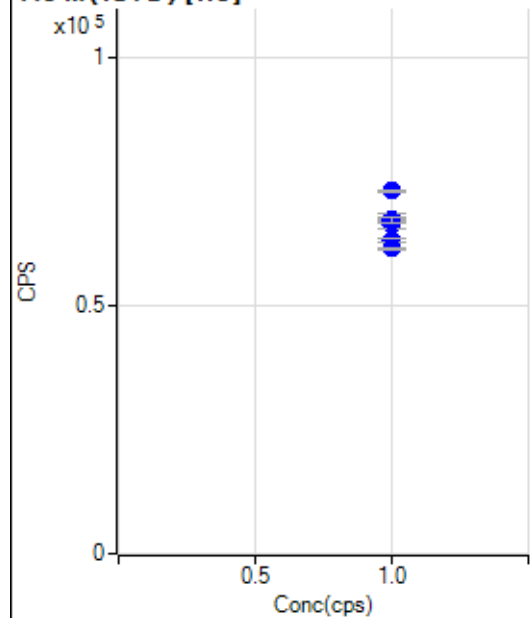
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		392547.87		P	2.5
2	☐	1.000		388098.11		P	1.3
3	☐	1.000		398182.51		P	1.5
4	☐	1.000		409754.67		P	3.0
5	☐	1.000		402290.60		P	0.8
6	☐	1.000		397445.17		P	0.5
7	☐	1.000		399576.75		P	1.0
8	☐	1.000		386140.94		P	0.8

103 Rh (ISTD) [He]

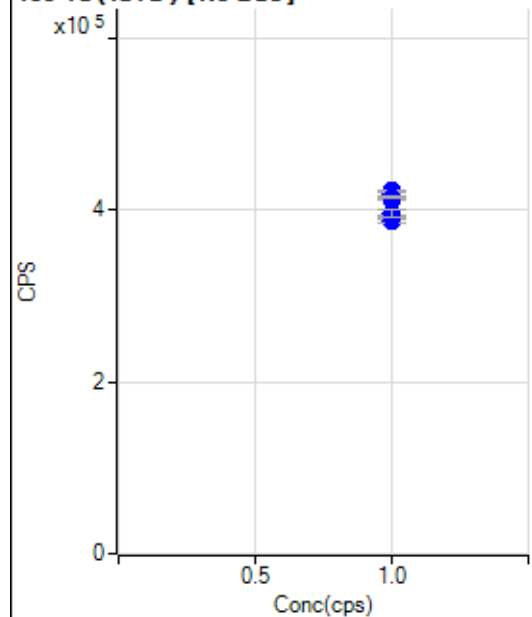
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		182354.25		P	0.7
2	☐	1.000		184564.81		P	0.8
3	☐	1.000		186214.63		P	2.4
4	☐	1.000		185125.94		P	2.5
5	☐	1.000		189214.93		P	0.8
6	☐	1.000		184655.73		P	1.9
7	☐	1.000		191776.84		P	0.5
8	☐	1.000		186178.36		P	1.1

115 In (ISTD) [No Gas]

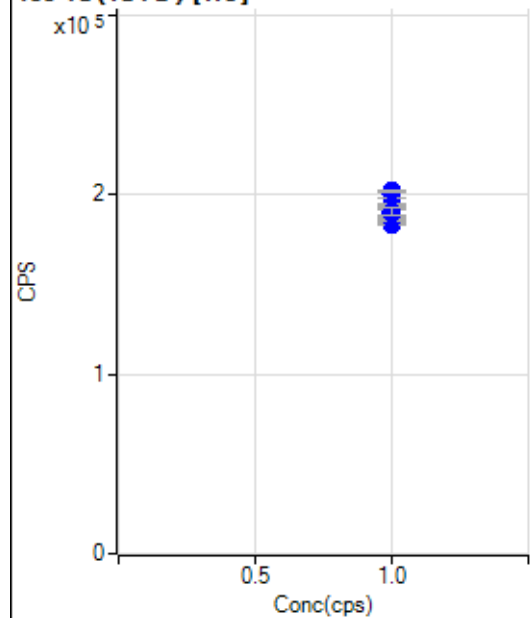
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		387898.23		P	1.5
2	☐	1.000		385994.81		P	0.7
3	☐	1.000		393472.82		P	1.3
4	☐	1.000		410559.15		P	2.7
5	☐	1.000		397075.36		P	0.2
6	☐	1.000		384780.66		P	1.0
7	☐	1.000		371581.84		P	1.2
8	☐	1.000		409755.33		P	0.5

115 In (ISTD) [He]

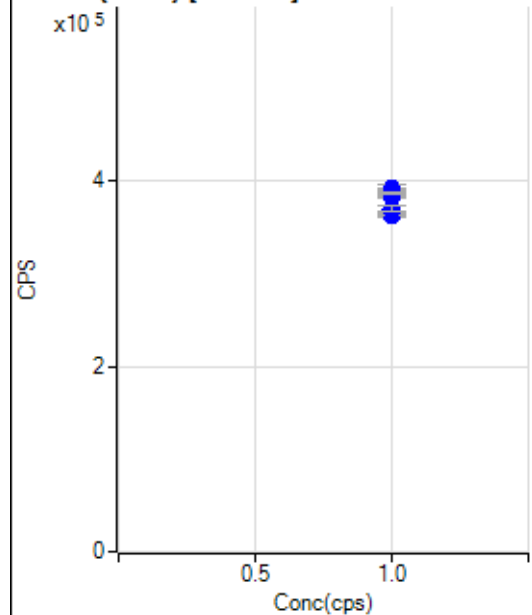
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t.	RSD
1	☐	1.000		66998.09		P	0.4
2	☐	1.000		67349.48		P	0.2
3	☐	1.000		67503.19		P	2.9
4	☐	1.000		66244.32		P	2.2
5	☐	1.000		67193.00		P	1.9
6	☐	1.000		63045.86		P	1.1
7	☐	1.000		61495.62		P	0.5
8	☐	1.000		73099.67		P	0.6

159 Tb (ISTD) [No Gas]

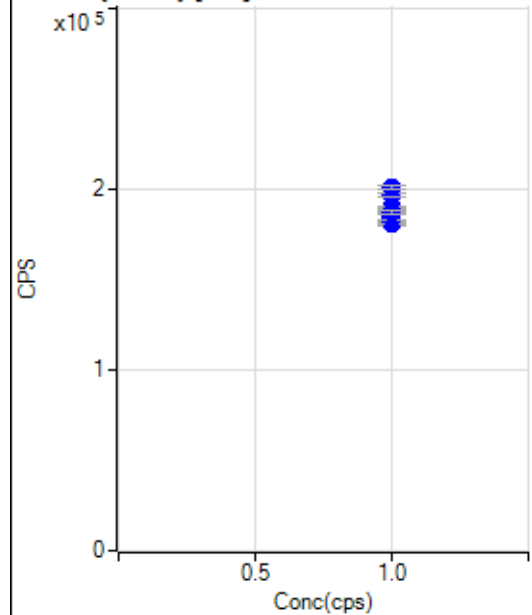
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		388336.73		P	1.0
2	☐	1.000		392873.04		P	0.6
3	☐	1.000		396943.41		P	2.2
4	☐	1.000		418925.82		P	2.2
5	☐	1.000		413261.21		P	0.1
6	☐	1.000		414150.95		P	1.0
7	☐	1.000		422724.51		P	0.3
8	☐	1.000		415373.51		P	0.5

159 Tb (ISTD) [He]

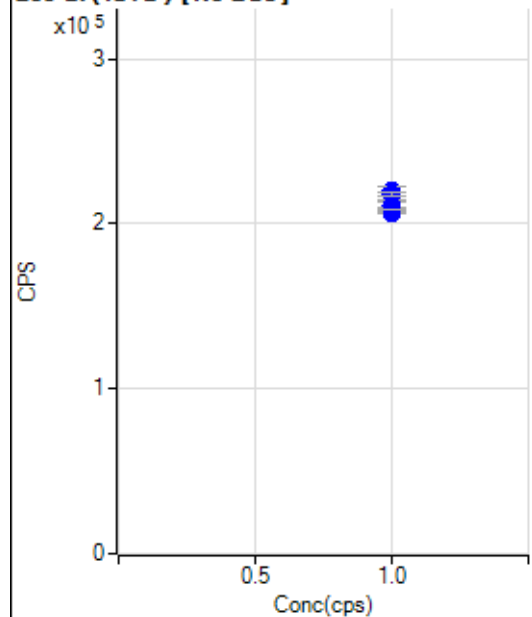
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		183439.78		P	0.4
2	☐	1.000		185800.70		P	0.8
3	☐	1.000		188915.01		P	2.2
4	☐	1.000		189742.61		P	2.1
5	☐	1.000		194244.84		P	0.8
6	☐	1.000		190442.36		P	1.8
7	☐	1.000		199734.89		P	1.4
8	☐	1.000		201811.59		P	0.3

165 Ho (ISTD) [No Gas]

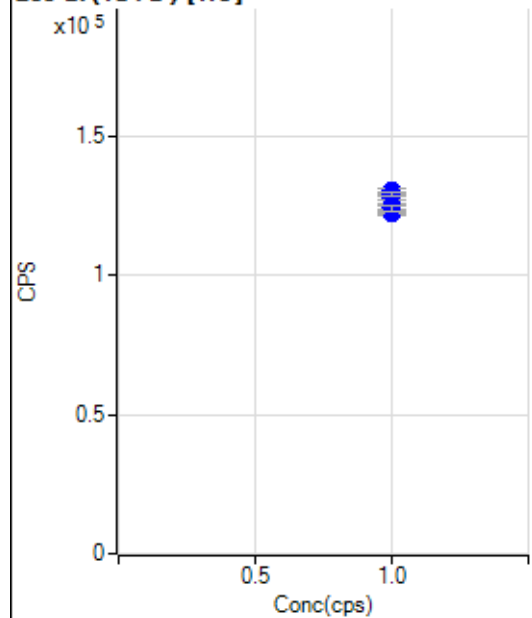
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		363483.38		P	1.2
2	☐	1.000		363697.20		P	0.2
3	☐	1.000		370003.41		P	2.1
4	☐	1.000		391385.94		P	2.7
5	☐	1.000		383156.11		P	0.6
6	☐	1.000		386866.39		P	0.7
7	☐	1.000		390662.53		P	0.5
8	☐	1.000		387473.45		P	0.6

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		180413.02		P	0.9
2	☐	1.000		181580.24		P	0.9
3	☐	1.000		185315.81		P	2.2
4	☐	1.000		184269.35		P	2.0
5	☐	1.000		189839.26		P	0.5
6	☐	1.000		186805.14		P	1.2
7	☐	1.000		196269.61		P	0.9
8	☐	1.000		200452.46		P	1.0

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		207148.82		P	1.0
2	☐	1.000		206764.88		P	0.2
3	☐	1.000		211314.31		P	1.8
4	☐	1.000		219922.60		P	2.6
5	☐	1.000		217149.04		P	0.1
6	☐	1.000		214549.28		P	0.3
7	☐	1.000		218087.41		P	0.8
8	☐	1.000		208545.00		P	0.4

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		122160.81		P	0.6
2	☐	1.000		123126.16		P	0.9
3	☐	1.000		125105.17		P	3.1
4	☐	1.000		124293.24		P	2.2
5	☐	1.000		128040.87		P	1.0
6	☐	1.000		124284.88		P	1.6
7	☐	1.000		130404.73		P	1.3
8	☐	1.000		129280.56		P	0.7

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8092420 MS.b
Acq. Date-Time 2020-09-24 12:59:39
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		2315	23146.05			1.645	5.000
24		42909	429092.59			1.172	5.000
25		5576	55757.32			1.253	5.000
26		6560	65604.61			0.919	5.000
59		17351	173508.62			1.027	5.000
113		2501	25009.39			1.825	5.000
115		7318	73183.20			1.362	5.000
206		2368	23682.62			1.671	5.000
207		1959	19588.55			1.454	5.000
208		4864	48639.15			1.368	5.000
220		1	10.00			28.940	

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

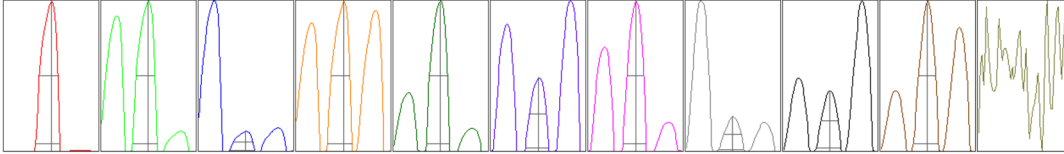
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2260	2362	2336	2310	2304
24	42254	43259	43477	42550	43007
25	5517	5639	5647	5493	5584
26	6502	6593	6649	6517	6541
59	17098	17454	17544	17245	17413
113	2428	2542	2530	2487	2518
115	7205	7414	7432	7268	7271
206	2300	2380	2395	2370	2396
207	1910	1964	1964	1980	1976
208	4748	4897	4896	4870	4909

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	4264.62	9.05	8.90 - 9.10	
24	76605.13	24.00	23.90 - 24.10	
25	10001.69	25.00	24.90 - 25.10	
26	11764.17	26.05	25.90 - 26.10	
59	32350.85	59.00	58.90 - 59.10	
113	4913.66	113.05	112.90 - 113.10	
115	14505.22	115.05	114.90 - 115.10	
206	4569.68	206.00	205.90 - 206.10	
207	3757.10	207.00	206.90 - 207.10	
208	9385.61	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.770	0.900	
24	0.60	0.782	0.900	
25	0.59	0.784	0.900	
26	0.59	0.783	0.900	
59	0.56	0.735	0.900	
113	0.52	0.729	0.900	
115	0.52	0.731	0.900	
206	0.54	0.780	0.900	
207	0.54	0.782	0.900	
208	0.54	0.796	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	14.4 V
Extract 2	-240.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 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	200 V		

QP Parameters

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

Hardware Settings

Torch

Torch H	0.9 mm	Torch V	-0.4 mm
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EM

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

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4314	43136.76			0.583	
89		2690	26897.08			0.638	
205		6481	64814.21			0.252	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4298	4328	4320	4343	4280
89	2684	2693	2717	2670	2685
205	6503	6472	6494	6473	6465

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	8.5 V	Deflect	4.2 V
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US EPA Tune Check Report

Extract 2	-240.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	122	Axis Gain	0.9993	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	-0.01		
Hardware Settings					
Torch					
Torch H	0.9 mm	Torch V	-0.4 mm		
EM					
Discriminator	4.0 mV	Analog HV	2181 V	Pulse HV	1312 V