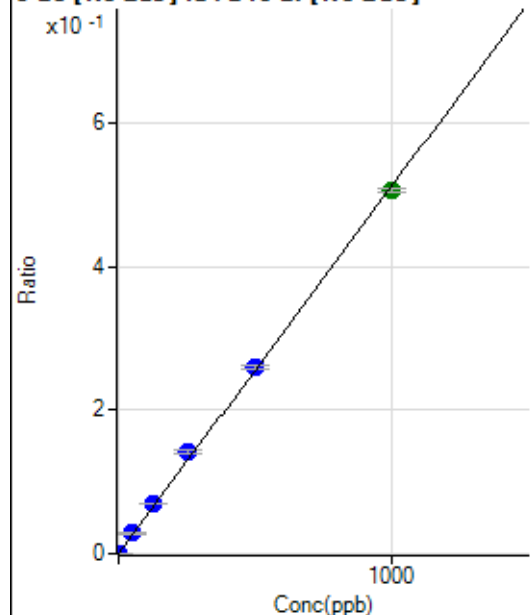


Calibration for 005CALS.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P7021723 MS.b\
 Analysis File: P7021723 MS.batch.bin
 DA Date-Time: 2023-02-17 16:19:53
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2023-02-17 15:13:15
2	006CALS.d	S02	2023-02-17 15:18:59
3	007CALS.d	S03	2023-02-17 15:21:50
4	008CALS.d	S04	2023-02-17 15:24:37
5	009CALS.d	S05	2023-02-17 15:27:21
6	010CALS.d	S06	2023-02-17 15:30:07
7	011CALS.d	S07	2023-02-17 15:32:51
8	012CALS.d	S08	2023-02-17 15:35:38

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	24.44	0.0000	P	20.6
2	☐	1.000	1.182	1461.20	0.0006	P	5.3
3	☐	50.000	55.052	64588.02	0.0282	P	1.8
4	☐	125.000	136.114	154970.86	0.0697	P	3.3
5	☐	250.000	276.172	296659.54	0.1414	P	4.1
6	☐	500.000	507.503	563339.99	0.2598	P	1.4
7	☐	1000.000	988.063	1081829.96	0.5057	A	1.1
8	☐			426.68	0.0002	P	16.6

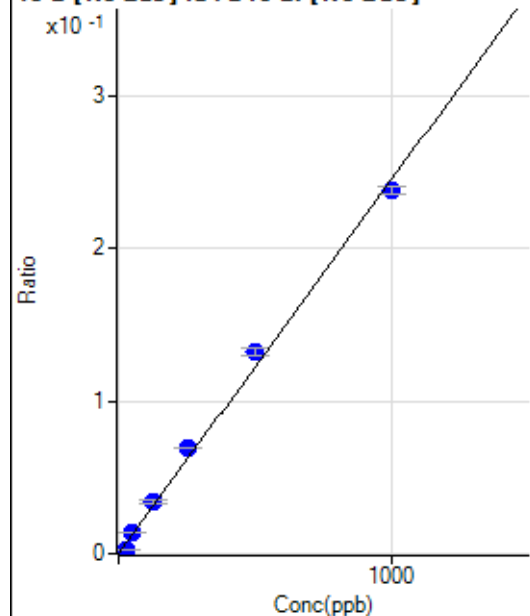
$$y = 5.1180\text{E-}004 * x + 1.0219\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.01234$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	97.23	0.0000	P	17.8
2	☐	25.000	9.913	5862.36	0.0025	P	5.3
3	☐	50.000	55.821	31396.25	0.0137	P	2.7
4	☐	125.000	139.531	76011.43	0.0342	P	5.8
5	☐	250.000	283.310	145758.59	0.0694	P	0.8
6	☐	500.000	539.516	286390.29	0.1321	P	3.7
7	☐	1000.000	970.185	508014.65	0.2374	P	2.2
8	☐			13297.72	0.0064	P	13.0

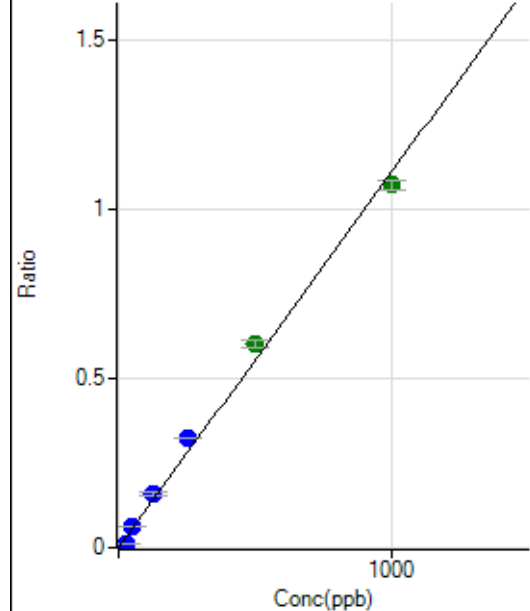
$$y = 2.4470\text{E-}004 * x + 4.0657\text{E-}005$$

$$R = 0.9977$$

$$DL = 0.08873$$

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	397.24	0.0002	P	6.7
2	☐	25.000	10.432	27878.31	0.0117	P	5.7
3	☐	50.000	57.022	145186.84	0.0634	P	5.2
4	☐	125.000	143.654	354344.06	0.1594	P	6.6
5	☐	250.000	291.603	679327.42	0.3233	P	0.9
6	☐	500.000	541.755	1302380.70	0.6006	A	4.1
7	☐	1000.000	966.403	2291786.97	1.0712	A	2.3
8	☐			61289.09	0.0297	P	10.7

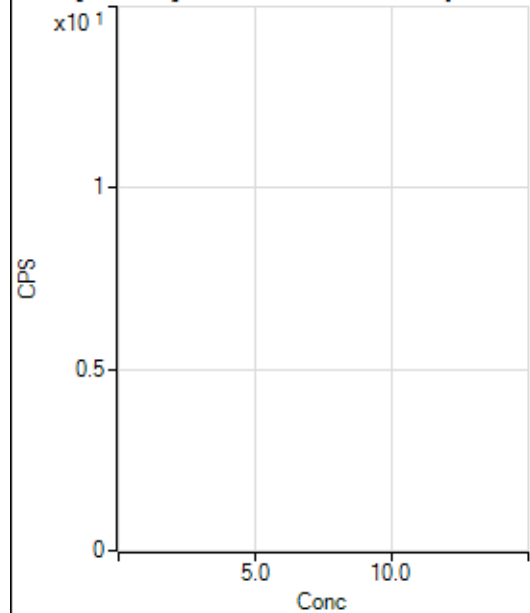
$$y = 0.0011 * x + 1.6612E-004$$

$$R = 0.9972$$

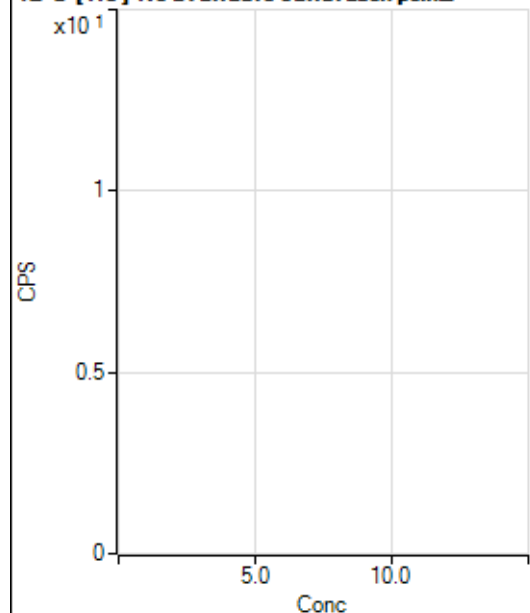
$$DL = 0.03009$$

Weight: <None>

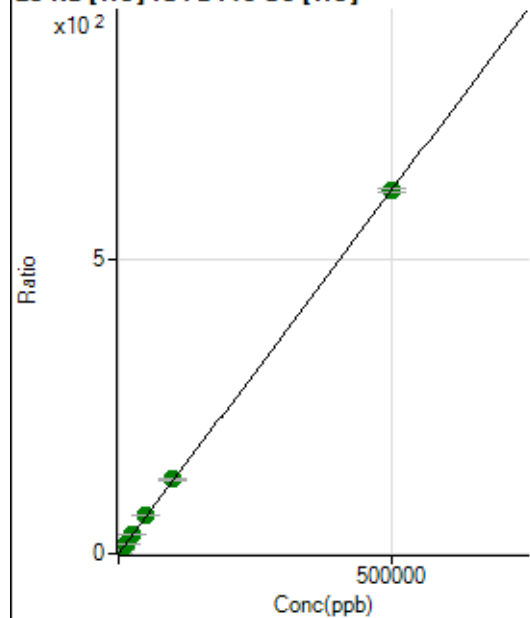
Min Conc: 0

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	5497.36	0.0136	P	5.9
2	☐	500.000	520.280	262406.55	0.6545	P	0.3
3	☐	5000.000	5398.113	2598645.72	6.6639	A	0.8
4	☐	12500.000	13450.597	6256104.13	16.5843	A	0.6
5	☐	25000.000	26099.571	12152263.93	32.1674	A	1.0
6	☐	50000.000	52221.949	24215366.28	64.3494	A	0.3
7	☐	100000.00	102162.56	47360572.82	125.8747	A	1.1
8	☐	500000.00	499262.54	229507038.4	615.0896	A	1.0

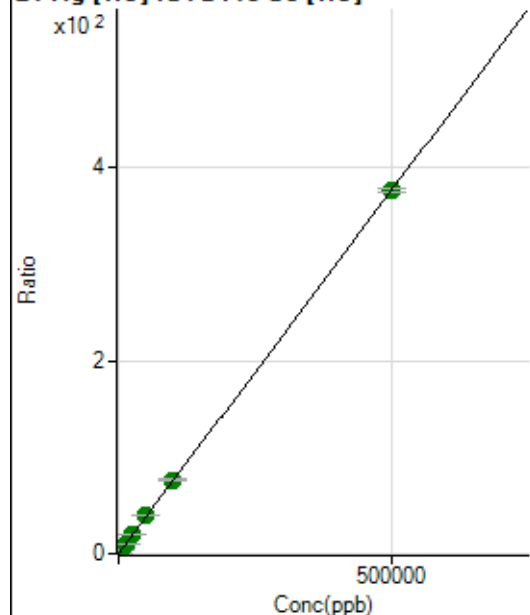
$$y = 0.0012 * x + 0.0136$$

$$R = 1.0000$$

$$DL = 1.936$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	181.49	0.0004	P	8.5
2	☐	500.000	530.704	160516.52	0.4004	P	0.2
3	☐	5000.000	5468.865	1607379.82	4.1218	A	1.4
4	☐	12500.000	13703.582	3895719.88	10.3276	A	1.2
5	☐	25000.000	26325.849	7495234.08	19.8398	A	2.1
6	☐	50000.000	52046.983	14759064.57	39.2234	A	1.3
7	☐	100000.00	101611.27	28811321.25	76.5754	A	1.2
8	☐	500000.00	499371.94	140418569.8	376.3307	A	1.0

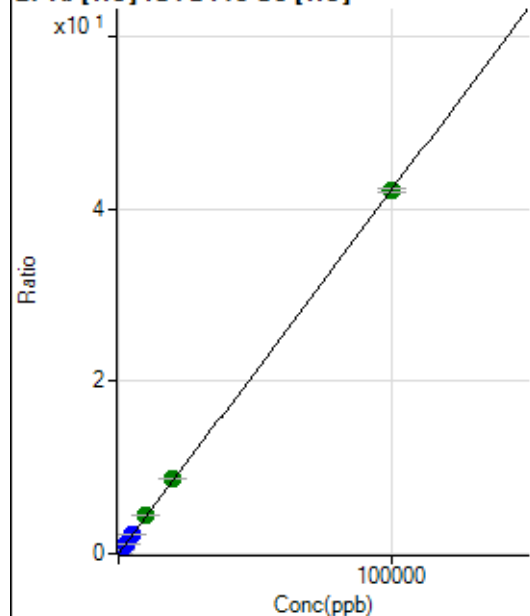
$$y = 7.5361E-004 * x + 4.4790E-004$$

$$R = 1.0000$$

$$DL = 0.1523$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	118.52	0.0003	P	3.2
2	☐	20.000	21.619	3774.60	0.0094	P	1.7
3	☐	1000.000	1099.053	180964.66	0.4641	P	0.3
4	☐	2500.000	2754.046	438496.41	1.1624	P	0.5
5	☐	5000.000	5321.756	848453.82	2.2459	P	0.4
6	☐	10000.000	10606.055	1684093.15	4.4757	A	1.7
7	☐	20000.000	20586.141	3268654.79	8.6870	A	0.8
8	☐	100000.00	99798.737	15713571.99	42.1123	A	1.1

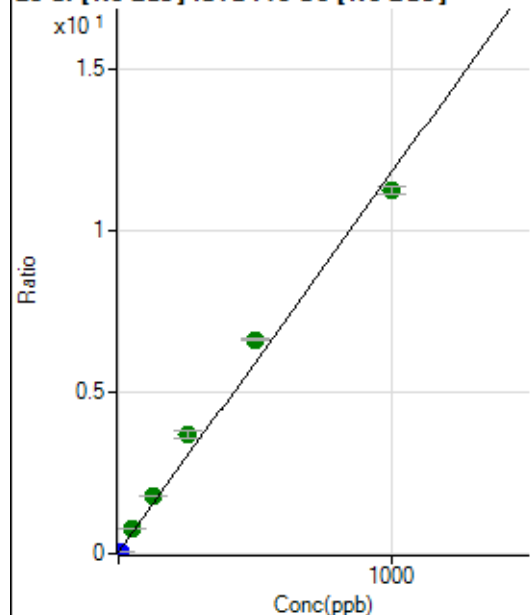
$$y = 4.2197E-004 * x + 2.9266E-004$$

$$R = 1.0000$$

$$DL = 0.0661$$

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	221872.91	0.0503	P	0.3
2	☐	10.000	0.679	251971.80	0.0583	P	1.0
3	☐	50.000	59.569	3181079.56	0.7495	A	1.4
4	☐	125.000	147.406	7323213.88	1.7805	A	1.6
5	☐	250.000	309.462	13899453.44	3.6827	A	6.8
6	☐	500.000	559.958	26533686.88	6.6231	A	1.2
7	☐	1000.000	951.970	45052970.10	11.2245	A	2.0
8	☐			448134.95	0.1122	P	1.0

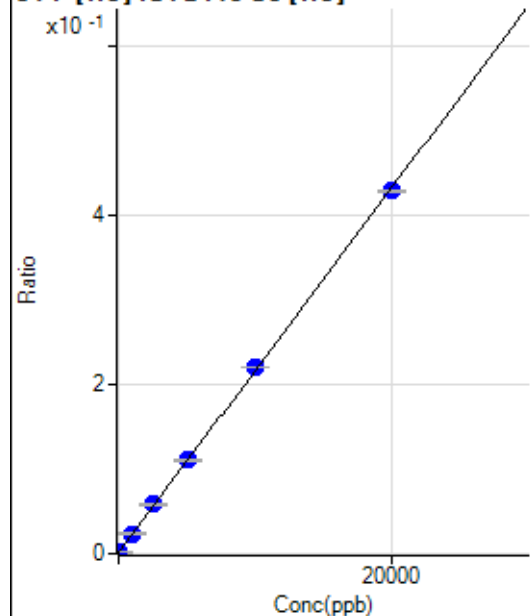
$$y = 0.0117 * x + 0.0503$$

$$R = 0.9947$$

$$DL = 0.0324$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-9.231	358.35	0.0009	P	18.2
2	☐	0.000	9.231	513.91	0.0013	P	10.4
3	☐	1000.000	1051.972	9261.34	0.0237	P	2.5
4	☐	2500.000	2655.920	21994.15	0.0583	P	3.9
5	☐	5000.000	5106.215	41972.06	0.1111	P	2.3
6	☐	10000.000	10206.384	83164.86	0.2210	P	0.2
7	☐	20000.000	19848.165	161321.65	0.4288	P	0.6
8	☐			422.24	0.0011	P	7.7

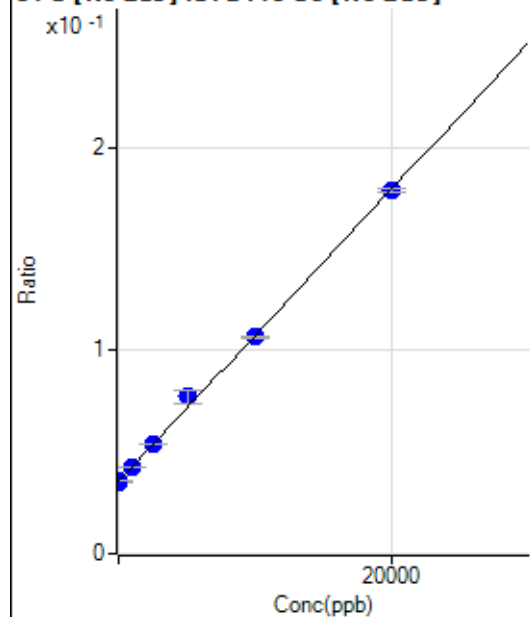
$$y = 2.1547E-005 * x + 0.0011$$

$$R = 0.9999$$

$$DL = 20.45$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	-67.756	154714.17	0.0351	P	1.8
2	☐	0.000	67.756	155881.35	0.0360	P	0.6
3	☐	1000.000	999.645	181519.20	0.0428	P	1.1
4	☐	2500.000	2547.896	221786.50	0.0539	P	0.5
5	☐	5000.000	5778.831	291260.26	0.0772	P	7.7
6	☐	10000.000	9869.073	427393.13	0.1067	P	1.0
7	☐	20000.000	19864.787	717356.63	0.1787	P	1.2
8	☐			138888.89	0.0348	P	1.3

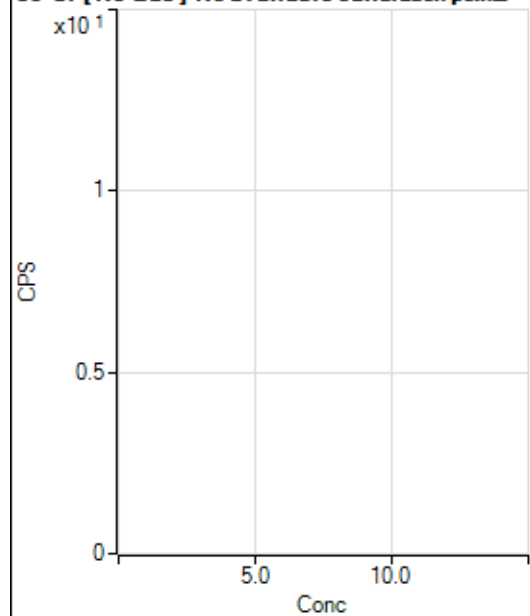
$$y = 7.2067E-006 * x + 0.0356$$

$$R = 0.9991$$

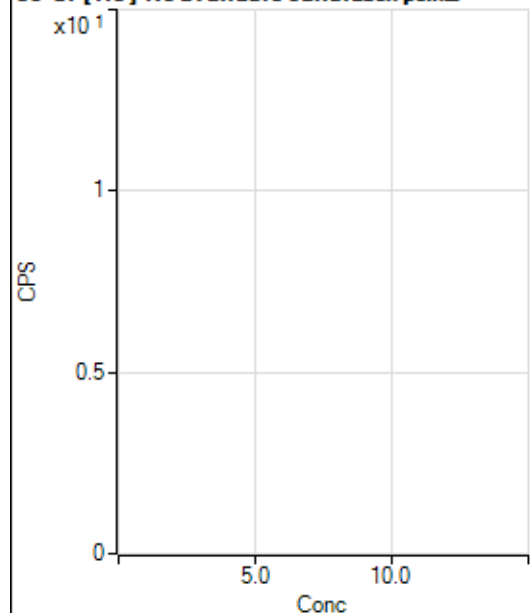
$$DL = 174.1$$

Weight: <None>

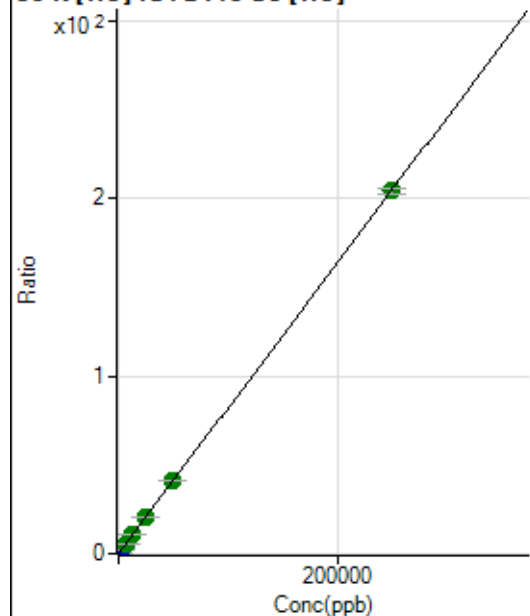
Min Conc: 0

35 Cl [No Gas] No available calibration points

	R _j 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	32958.53	0.0814	P	1.5
2	☐	500.000	541.761	209990.24	0.5238	P	0.5
3	☐	2500.000	2817.816	929076.84	2.3825	P	0.4
4	☐	6250.000	6515.319	2037744.75	5.4020	A	0.3
5	☐	12500.000	12719.013	3954651.78	10.4681	A	1.4
6	☐	25000.000	25310.984	7808599.48	20.7511	A	0.6
7	☐	50000.000	50241.720	15467401.74	41.1103	A	1.5
8	☐	250000.00	249899.71	76181132.26	204.1569	A	1.3

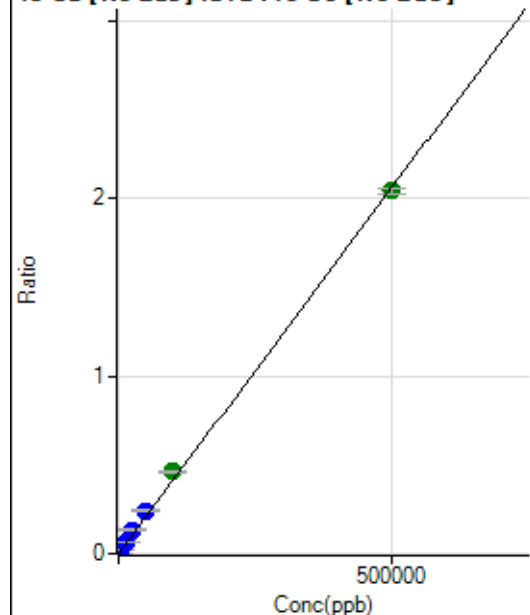
$$y = 8.1663E-004 * x + 0.0814$$

$$R = 1.0000$$

$$DL = 4.46$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	94.45	0.0000	P	49.7
2	☐	500.000	549.049	9861.75	0.0023	P	3.1
3	☐	5000.000	6196.199	108318.60	0.0255	P	0.9
4	☐	12500.000	15474.715	261995.10	0.0637	P	1.5
5	☐	25000.000	32411.350	503330.37	0.1334	P	7.4
6	☐	50000.000	58959.581	972066.38	0.2426	P	1.6
7	☐	100000.00	112766.79	1862626.37	0.4641	A	2.2
8	☐	500000.00	496093.73	8153466.76	2.0414	A	1.5

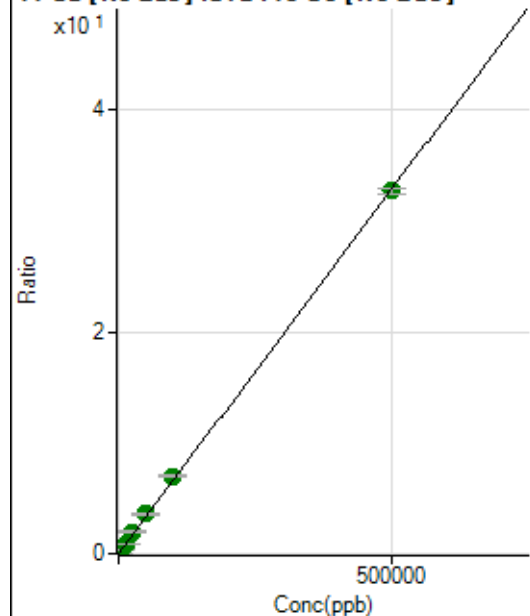
$$y = 4.1150\text{E-}006 * x + 2.1363\text{E-}005$$

$$R = 0.9995$$

$$DL = 7.734$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	2600.34	0.0006	P	4.8
2	☐	500.000	554.288	159873.16	0.0370	P	1.1
3	☐	5000.000	5679.518	1584621.81	0.3734	A	1.3
4	☐	12500.000	14063.582	3798868.83	0.9236	A	0.8
5	☐	25000.000	29374.803	7278737.14	1.9285	A	6.9
6	☐	50000.000	54132.215	14236163.34	3.5534	A	1.5
7	☐	100000.00	106753.89	28125189.52	7.0072	A	2.2
8	☐	500000.00	497971.32	130547465.4	32.6839	A	1.3

$$y = 6.5633\text{E-}005 * x + 5.8947\text{E-}004$$

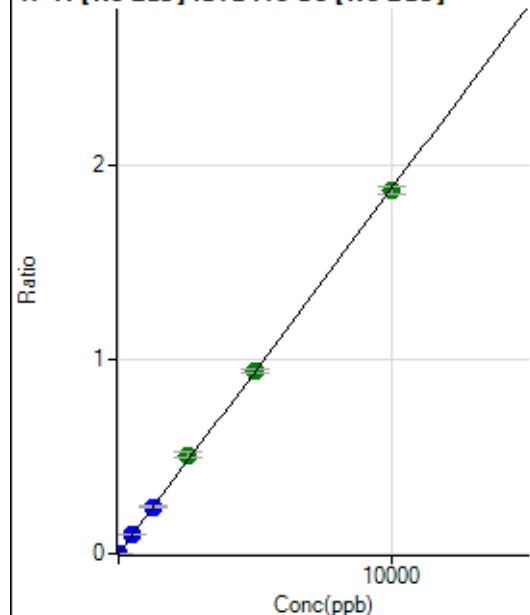
$$R = 0.9999$$

$$DL = 1.299$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	75.00	0.0000	P	28.5
2	☐	5.000	4.826	3986.72	0.0009	P	4.1
3	☐	500.000	515.818	410507.19	0.0967	P	2.4
4	☐	1250.000	1289.918	994783.06	0.2419	P	0.9
5	☐	2500.000	2713.240	1920165.49	0.5087	A	6.7
6	☐	5000.000	5000.839	3756279.29	0.9376	A	2.4
7	☐	10000.000	9940.490	7480805.38	1.8637	A	2.0
8	☐			2758.67	0.0007	P	20.7

$$y = 1.8749E-004 * x + 1.6976E-005$$

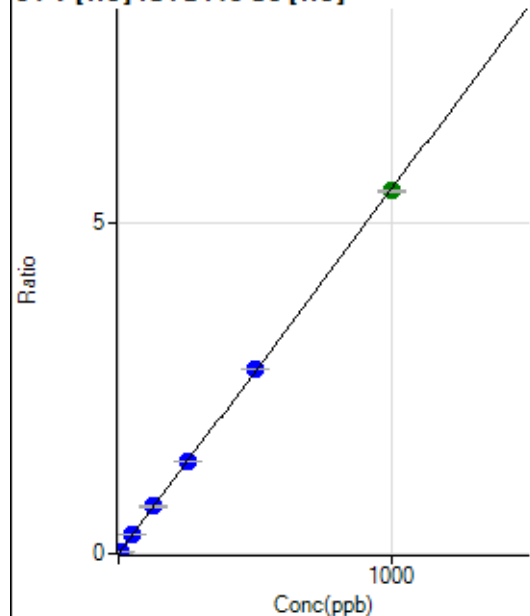
$$R = 0.9997$$

$$DL = 0.07746$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	15.56	0.0000	P	32.2
2	☐	5.000	5.080	11272.07	0.0281	P	1.4
3	☐	50.000	51.743	111533.58	0.2860	P	0.5
4	☐	125.000	129.400	269788.41	0.7152	P	0.8
5	☐	250.000	253.657	529629.83	1.4020	P	0.6
6	☐	500.000	506.838	1054097.98	2.8012	P	0.6
7	☐	1000.000	995.029	2069227.78	5.4994	A	0.8
8	☐			661.13	0.0018	P	8.6

$$y = 0.0055 * x + 3.8361E-005$$

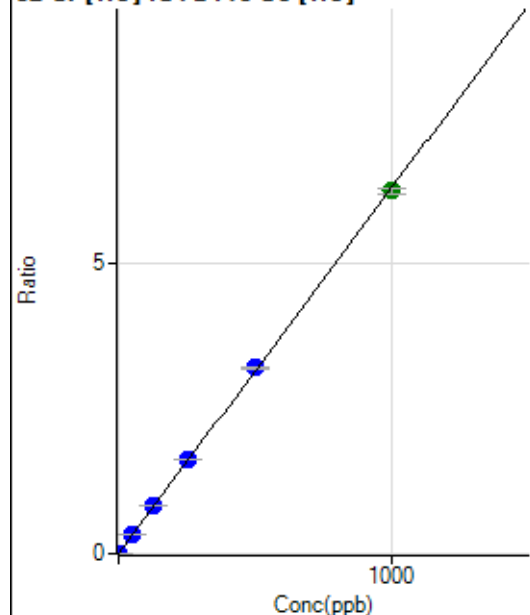
$$R = 1.0000$$

$$DL = 0.006695$$

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	742.25	0.0018	P	4.1
2	☐	2.000	2.117	6081.29	0.0152	P	6.0
3	☐	50.000	53.045	130999.60	0.3359	P	0.5
4	☐	125.000	132.310	315052.93	0.8352	P	0.6
5	☐	250.000	257.806	614122.12	1.6256	P	0.5
6	☐	500.000	509.220	1207561.60	3.2091	P	1.0
7	☐	1000.000	992.372	2352437.07	6.2522	A	1.6
8	☐			22191.94	0.0595	P	1.4

$$y = 0.0063 * x + 0.0018$$

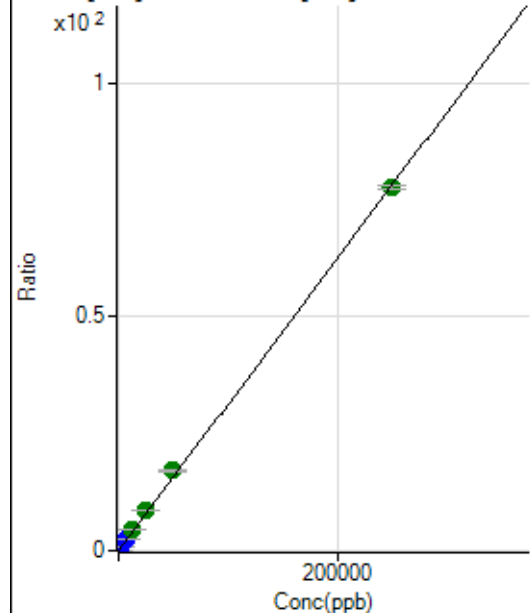
$$R = 0.9999$$

$$DL = 0.03535$$

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	1630.22	0.0040	P	0.8
2	☐	50.000	61.466	9297.91	0.0232	P	4.2
3	☐	2500.000	3064.372	374185.73	0.9595	P	1.1
4	☐	6250.000	7649.626	901290.65	2.3893	P	0.5
5	☐	12500.000	14312.122	1687451.91	4.4668	A	0.8
6	☐	25000.000	28006.611	3287546.63	8.7370	A	1.9
7	☐	50000.000	54769.181	6427325.67	17.0820	A	0.5
8	☐	250000.00	248614.26	28927221.51	77.5261	A	0.9

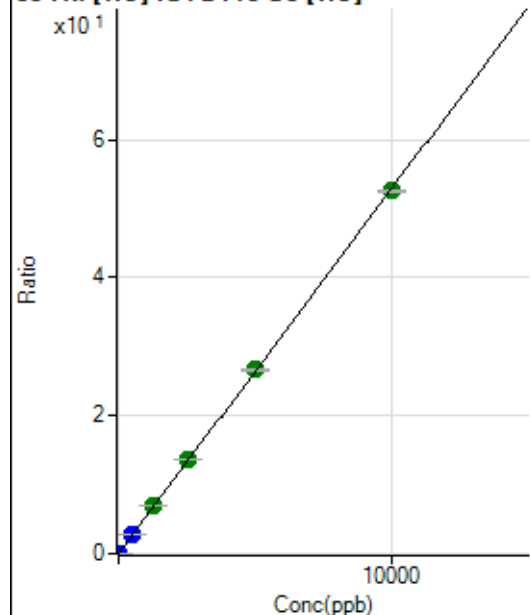
$$y = 3.1182E-004 * x + 0.0040$$

$$R = 0.9998$$

$$DL = 0.2912$$

Weight: <None>

Min Conc: 0

⁵⁵Mn [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	90.00	0.0002	P	26.3
2	☐	1.000	1.070	2354.65	0.0059	P	3.3
3	☐	500.000	539.097	1110797.50	2.8485	P	0.7
4	☐	1250.000	1327.549	2645927.24	7.0142	A	0.7
5	☐	2500.000	2567.992	5125739.85	13.5680	A	0.7
6	☐	5000.000	5047.251	10034775.89	26.6670	A	0.5
7	☐	10000.000	9947.728	19775323.73	52.5582	A	0.8
8	☐			21050.37	0.0564	P	0.6

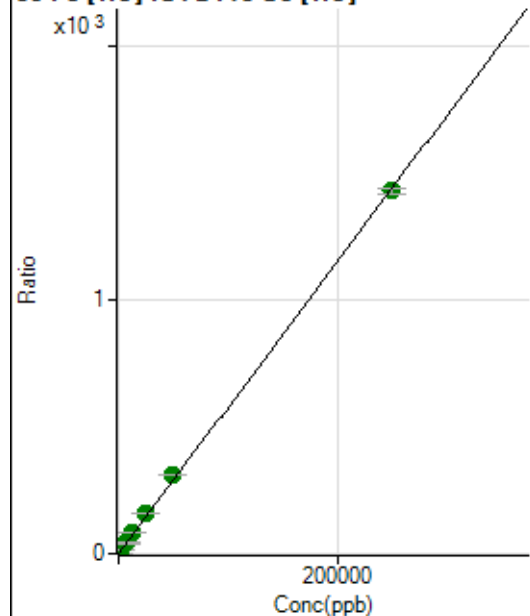
$$y = 0.0053 * x + 2.2254E-004$$

$$R = 0.9999$$

$$DL = 0.03327$$

Weight: <None>

Min Conc: 0

⁵⁶Fe [He] ISTD:45 Sc [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	8007.81	0.0198	P	1.7
2	☐	50.000	58.492	142492.38	0.3554	P	0.8
3	☐	2500.000	2897.733	6492100.78	16.6483	A	1.0
4	☐	6250.000	7257.324	15717391.90	41.6656	A	0.3
5	☐	12500.000	14196.289	30783671.98	81.4845	A	1.8
6	☐	25000.000	27489.100	59367884.66	157.7647	A	0.5
7	☐	50000.000	54447.088	117565785.0	312.4618	A	0.7
8	☐	250000.00	248747.69	532642885.9	1,427.446	A	1.5

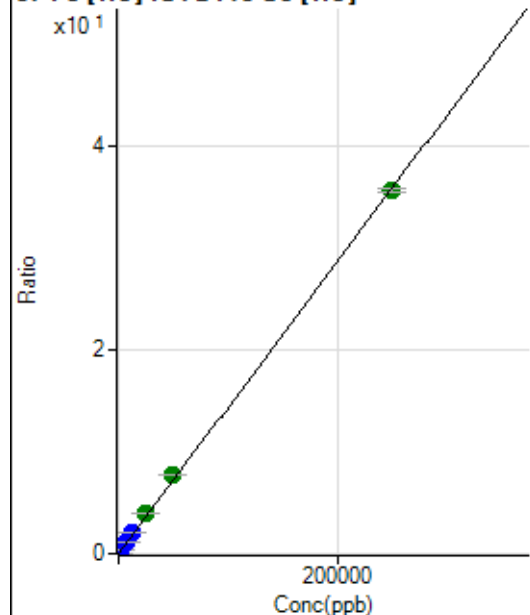
$$y = 0.0057 * x + 0.0198$$

$$R = 0.9998$$

$$DL = 0.1806$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	109.26	0.0003	P	29.3
2	☐	50.000	59.657	3524.54	0.0088	P	3.1
3	☐	2500.000	3021.454	168426.99	0.4319	P	0.8
4	☐	6250.000	7492.603	403874.03	1.0707	P	0.7
5	☐	12500.000	14614.428	788822.71	2.0881	P	0.6
6	☐	25000.000	27566.475	1481866.46	3.9384	A	2.2
7	☐	50000.000	54374.700	2922774.05	7.7682	A	1.2
8	☐	250000.00	248726.41	13258721.59	35.5331	A	1.0

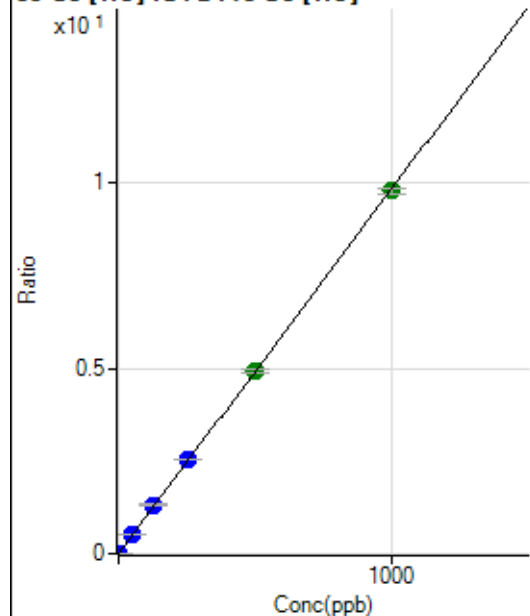
$$y = 1.4286E-004 * x + 2.6948E-004$$

$$R = 0.9998$$

$$DL = 1.659$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	43.33	0.0001	P	30.0
2	☐	1.000	1.095	4362.89	0.0109	P	2.4
3	☐	50.000	53.883	206739.99	0.5302	P	0.3
4	☐	125.000	134.495	499111.18	1.3231	P	0.5
5	☐	250.000	260.479	968036.11	2.5624	P	0.2
6	☐	500.000	501.572	1856645.20	4.9341	A	1.8
7	☐	1000.000	995.213	3683450.67	9.7900	A	1.4
8	☐			4255.09	0.0114	P	3.0

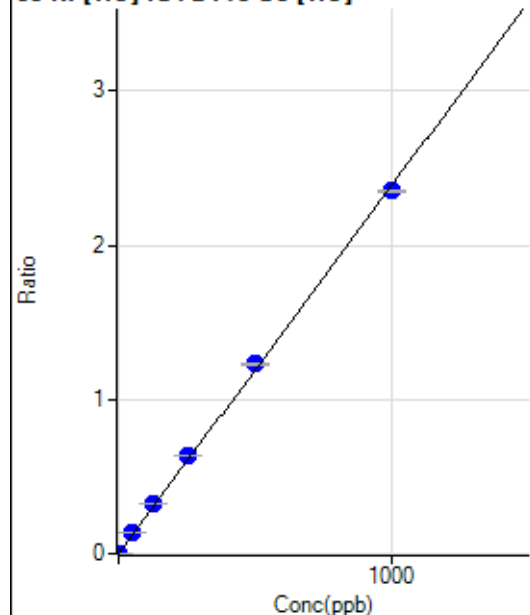
$$y = 0.0098 * x + 1.0684E-004$$

$$R = 0.9999$$

$$DL = 0.00979$$

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	90.00	0.0002	P	23.2
2	☐	1.000	1.126	1165.61	0.0029	P	1.5
3	☐	50.000	56.367	52506.98	0.1346	P	1.6
4	☐	125.000	137.606	123877.70	0.3284	P	0.7
5	☐	250.000	266.759	240421.51	0.6364	P	0.6
6	☐	500.000	515.054	462287.51	1.2286	P	1.2
7	☐	1000.000	986.389	885193.71	2.3526	P	0.6
8	☐			3251.50	0.0087	P	2.7

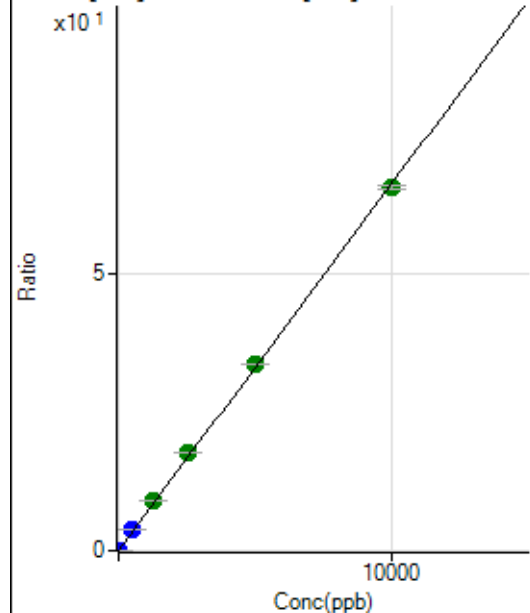
$$y = 0.0024 * x + 2.2250E-004$$

$$R = 0.9996$$

$$DL = 0.06495$$

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	558.91	0.0014	P	4.2
2	☐	2.000	2.260	6537.03	0.0163	P	2.9
3	☐	500.000	558.426	1438527.25	3.6889	P	0.4
4	☐	1250.000	1388.014	3458048.25	9.1671	A	0.2
5	☐	2500.000	2661.308	6639513.79	17.5752	A	0.2
6	☐	5000.000	5092.371	12654423.70	33.6286	A	0.5
7	☐	10000.000	9893.315	24581412.69	65.3314	A	1.0
8	☐			7496.39	0.0201	P	4.4

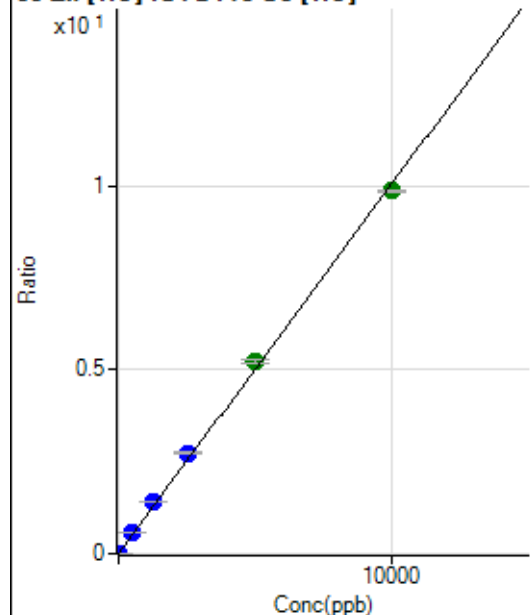
$$y = 0.0066 * x + 0.0014$$

$$R = 0.9997$$

$$DL = 0.02649$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	266.67	0.0007	P	8.1
2	☐	2.000	2.591	1307.85	0.0033	P	5.0
3	☐	500.000	569.150	223258.45	0.5725	P	0.8
4	☐	1250.000	1416.268	537037.95	1.4237	P	0.3
5	☐	2500.000	2721.574	1033288.19	2.7352	P	0.9
6	☐	5000.000	5198.484	1965583.56	5.2239	A	2.0
7	☐	10000.000	9821.123	3713248.21	9.8686	A	0.3
8	☐			3979.46	0.0107	P	3.5

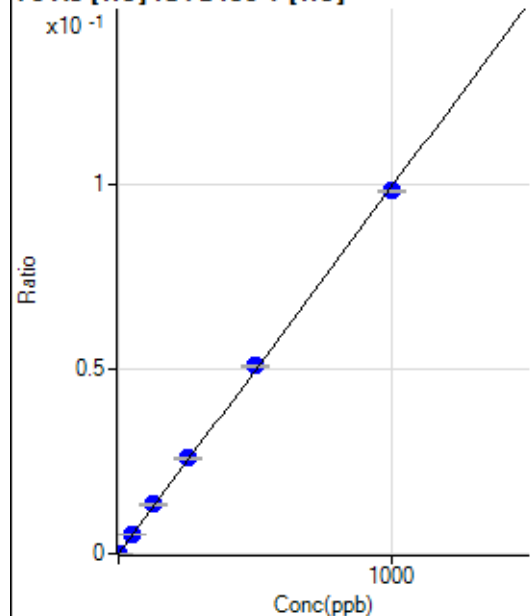
$$y = 0.0010 * x + 6.5840E-004$$

$$R = 0.9994$$

$$DL = 0.16$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3.70	0.0000	P	51.0
2	☐	1.000	1.168	308.03	0.0001	P	5.6
3	☐	50.000	54.301	13738.48	0.0054	P	0.1
4	☐	125.000	135.202	33123.18	0.0134	P	2.3
5	☐	250.000	261.471	64987.94	0.0259	P	2.1
6	☐	500.000	512.598	127105.26	0.0508	P	1.2
7	☐	1000.000	989.343	246354.97	0.0980	P	0.5
8	☐			76.54	0.0000	P	6.2

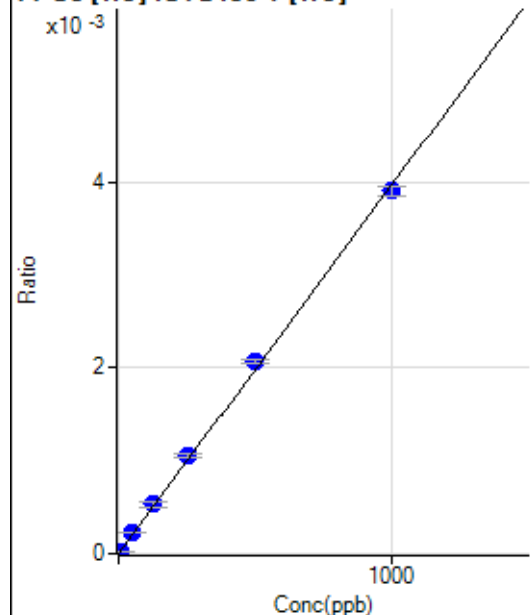
$$y = 9.9100E-005 * x + 1.3909E-006$$

$$R = 0.9998$$

$$DL = 0.02147$$

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	4.484	46.67	0.0000	P	19.7
3	☐	50.000	56.444	571.13	0.0002	P	4.5
4	☐	125.000	133.124	1303.41	0.0005	P	9.3
5	☐	250.000	265.853	2642.49	0.0011	P	3.6
6	☐	500.000	519.890	5156.51	0.0021	P	1.9
7	☐	1000.000	984.757	9806.65	0.0039	P	2.5
8	☐			4.44	0.0000	P	41.5

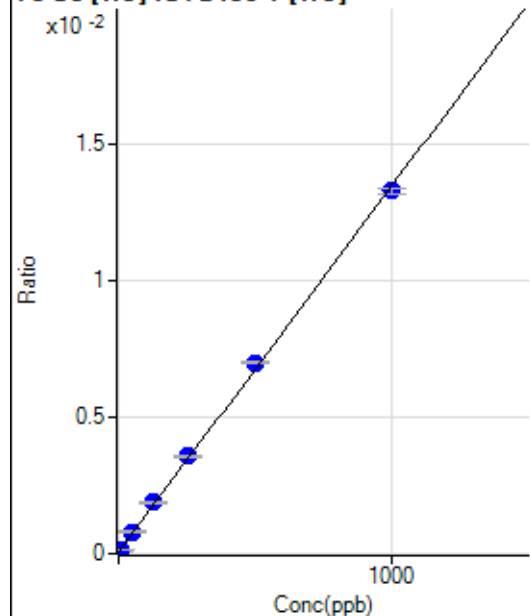
$$y = 3.9635\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9995$$

$$DL = 0$$

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	168.52	0.0001	P	13.1
2	☐	5.000	5.828	371.61	0.0001	P	1.7
3	☐	50.000	55.480	2060.03	0.0008	P	2.0
4	☐	125.000	135.222	4639.02	0.0019	P	3.0
5	☐	250.000	261.485	8953.36	0.0036	P	1.0
6	☐	500.000	516.254	17480.70	0.0070	P	1.1
7	☐	1000.000	987.446	33429.50	0.0133	P	1.5
8	☐			174.69	0.0001	P	2.4

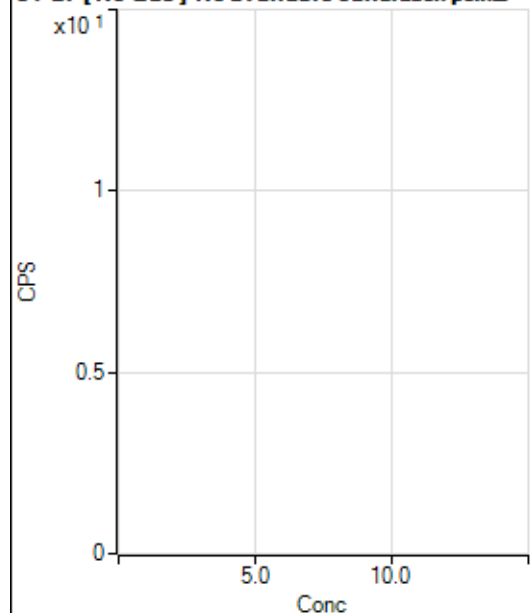
$$y = 1.3410\text{E-}005 * x + 6.3159\text{E-}005$$

$$R = 0.9997$$

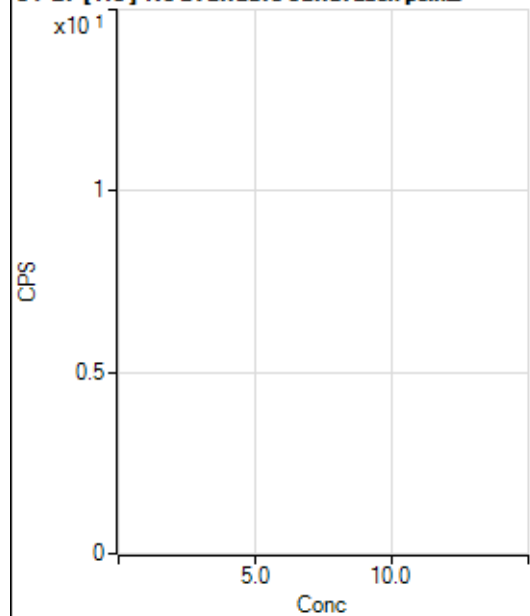
$$DL = 1.849$$

Weight: <None>

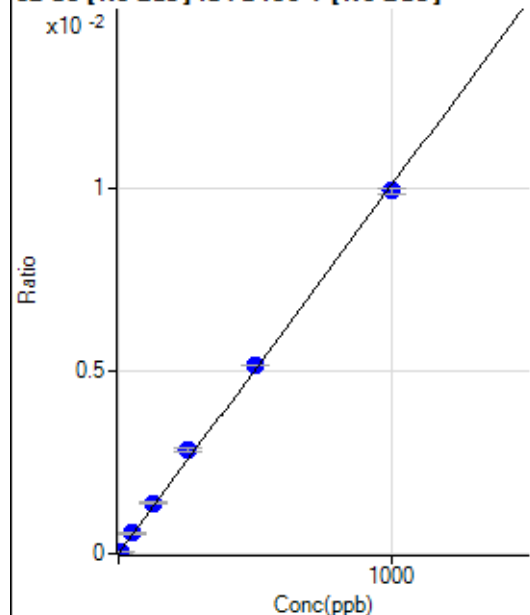
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			53188.04		P	0.8
2	☐			53698.47		P	1.7
3	☐			52717.57		P	1.9
4	☐			50936.05		P	2.6
5	☐			49291.64		P	0.5
6	☐			48884.41		P	1.1
7	☐			50386.93		P	0.4
8	☐			49656.53		P	0.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			66.53		P	22.9
2	☐			69.86		P	75.6
3	☐			66.53		P	45.8
4	☐			43.25		P	66.6
5	☐			79.84		P	37.5
6	☐			59.88		P	16.7
7	☐			83.17		P	13.9
8	☐			56.55		P	20.4

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	35.27	0.0000	P	40.0
2	☐	5.000	5.258	611.04	0.0001	P	3.6
3	☐	50.000	54.579	5918.16	0.0006	P	1.6
4	☐	125.000	137.189	14331.32	0.0014	P	1.7
5	☐	250.000	282.650	27433.89	0.0029	P	4.6
6	☐	500.000	510.371	52864.43	0.0052	P	0.2
7	☐	1000.000	984.898	101998.63	0.0099	P	1.4
8	☐			255.64	0.0000	P	26.2

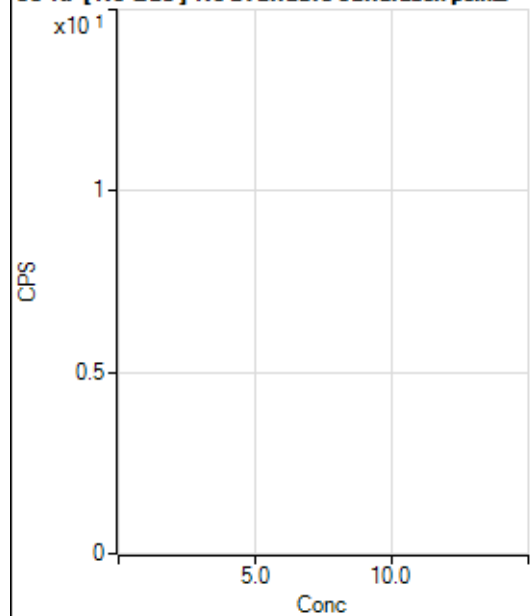
$$y = 1.0086E-005 * x + 3.2156E-006$$

$$R = 0.9993$$

$$DL = 0.3828$$

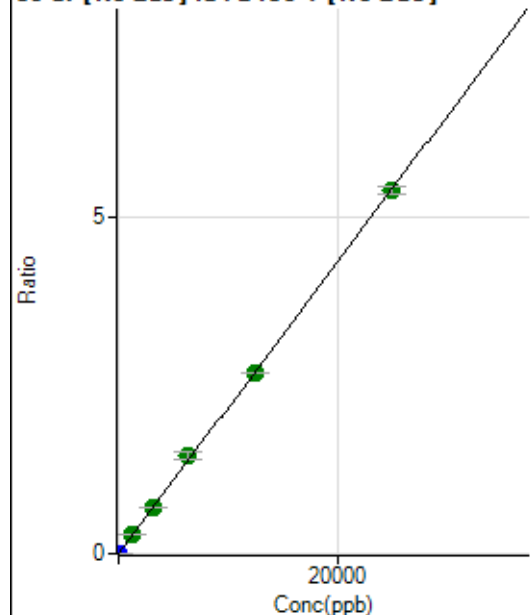
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			110.00		P	21.2
2	☐			117.78		P	26.7
3	☐			107.78		P	20.1
4	☐			111.11		P	24.1
5	☐			101.11		P	16.3
6	☐			138.89		P	9.1
7	☐			146.67		P	18.0
8	☐			182.23		P	10.4

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	197.23	0.0000	P	20.8
2	☐	1.000	1.001	2544.74	0.0002	P	7.4
3	☐	1250.000	1282.434	2960142.39	0.2770	A	1.1
4	☐	3125.000	3197.752	7136102.42	0.6906	A	0.6
5	☐	6250.000	6737.102	13970341.98	1.4549	A	7.1
6	☐	12500.000	12393.409	27468787.77	2.6764	A	0.3
7	☐	25000.000	24920.804	55239092.90	5.3817	A	2.2
8	☐			22526.45	0.0023	P	16.2

$$y = 2.1595E-004 * x + 1.7992E-005$$

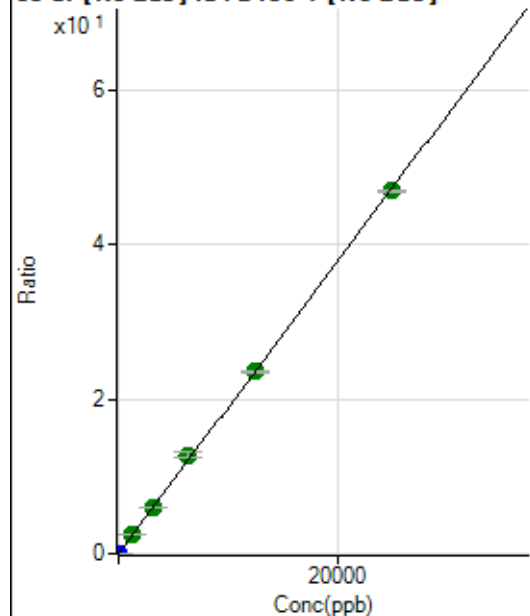
$$R = 0.9998$$

$$DL = 0.05205$$

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	150.00	0.0000	P	14.4
2	☐	1.000	0.996	20564.78	0.0019	P	3.3
3	☐	1250.000	1283.866	25898213.60	2.4231	A	1.0
4	☐	3125.000	3210.909	62621427.79	6.0601	A	0.3
5	☐	6250.000	6776.901	122846299.9	12.7903	A	6.5
6	☐	12500.000	12467.807	241518535.9	23.5310	A	0.8
7	☐	25000.000	24871.939	481925999.6	46.9418	A	0.3
8	☐			197242.74	0.0199	P	14.6

$$y = 0.0019 * x + 1.3697E-005$$

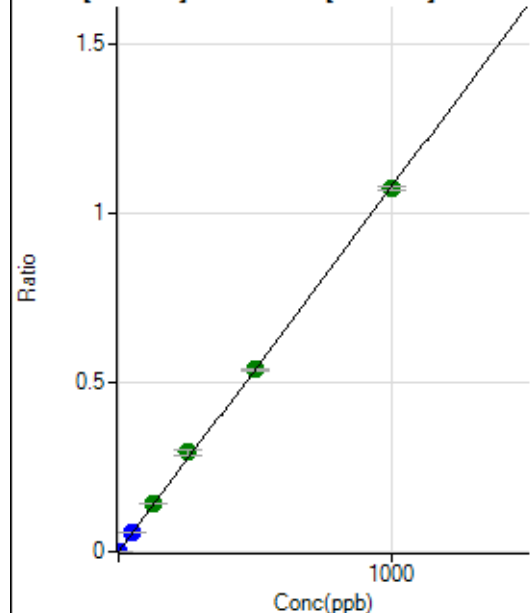
$$R = 0.9997$$

$$DL = 0.00313$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	430.57	0.0000	P	7.5
2	☐	1.000	0.963	11707.72	0.0011	P	3.8
3	☐	50.000	51.481	593646.70	0.0555	P	2.3
4	☐	125.000	129.914	1447797.07	0.1401	A	0.4
5	☐	250.000	271.997	2819299.89	0.2933	A	5.0
6	☐	500.000	498.700	5519038.79	0.5377	A	0.9
7	☐	1000.000	994.463	11007177.07	1.0723	A	0.9
8	☐			4603.64	0.0005	P	15.8

$$y = 0.0011 * x + 3.9318E-005$$

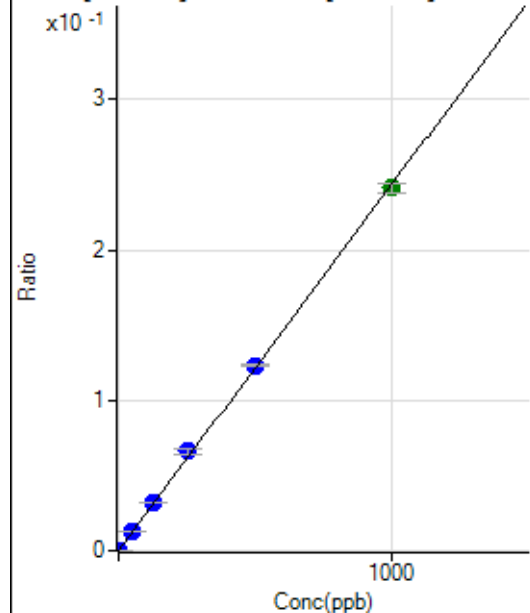
$$R = 0.9997$$

$$DL = 0.008258$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	91.67	0.0000	P	23.6
2	☐	1.000	0.931	2553.06	0.0002	P	0.8
3	☐	50.000	51.823	134824.61	0.0126	P	2.5
4	☐	125.000	129.455	325527.25	0.0315	P	0.4
5	☐	250.000	270.655	632719.32	0.0659	P	5.7
6	☐	500.000	505.873	1263239.35	0.1231	P	1.2
7	☐	1000.000	991.252	2475130.87	0.2412	A	2.4
8	☐			1008.40	0.0001	P	15.5

$$y = 2.4328E-004 * x + 8.3650E-006$$

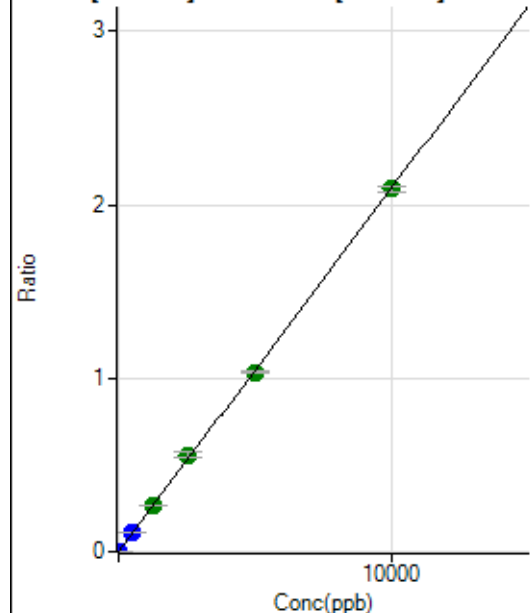
$$R = 0.9997$$

$$DL = 0.02432$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	127.78	0.0000	P	25.4
2	☐	5.000	5.994	13776.22	0.0013	P	1.6
3	☐	500.000	513.259	1149872.50	0.1076	P	2.2
4	☐	1250.000	1285.349	2784183.96	0.2694	A	0.4
5	☐	2500.000	2670.323	5378154.11	0.5597	A	5.7
6	☐	5000.000	4944.908	10638053.80	1.0365	A	0.8
7	☐	10000.000	9979.883	21472966.63	2.0919	A	1.8
8	☐			9711.86	0.0010	P	12.8

$$y = 2.0961E-004 * x + 1.1689E-005$$

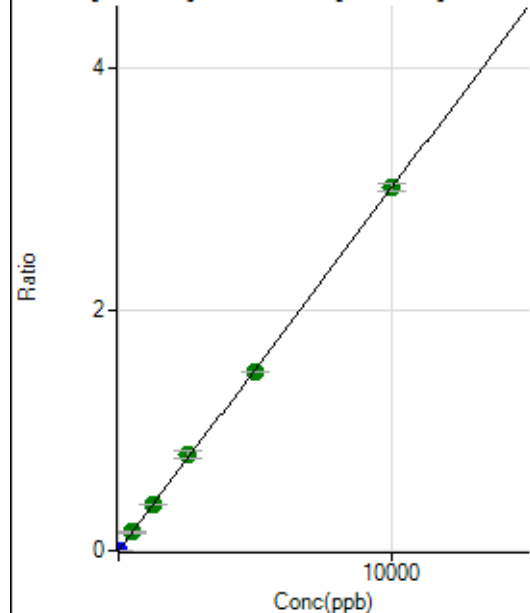
$$R = 0.9998$$

$$DL = 0.04249$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	58.2
2	☐	5.000	5.098	16696.00	0.0015	P	2.0
3	☐	500.000	508.006	1634253.12	0.1529	A	1.9
4	☐	1250.000	1280.177	3981767.23	0.3853	A	0.1
5	☐	2500.000	2649.423	7660646.78	0.7975	A	6.2
6	☐	5000.000	4916.177	15187253.12	1.4797	A	0.4
7	☐	10000.000	10000.383	30894219.44	3.0101	A	2.3
8	☐			12942.28	0.0013	P	15.1

$$y = 3.0100E-004 * x + 2.2919E-006$$

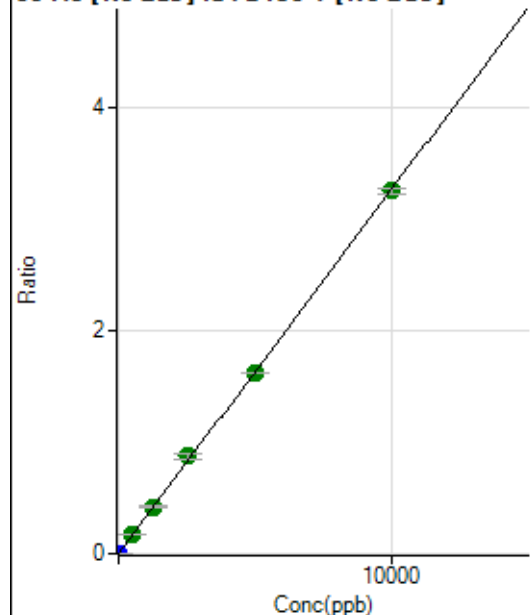
$$R = 0.9998$$

$$DL = 0.01329$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	88.89	0.0000	P	28.6
2	☐	5.000	5.338	19026.62	0.0018	P	3.5
3	☐	500.000	510.672	1782415.36	0.1668	A	1.6
4	☐	1250.000	1288.885	4349488.47	0.4209	A	0.8
5	☐	2500.000	2684.527	8422454.62	0.8767	A	5.9
6	☐	5000.000	4974.717	16673658.53	1.6246	A	0.5
7	☐	10000.000	9961.115	33389897.27	3.2529	A	1.8
8	☐			35368.70	0.0036	P	6.4

$$y = 3.2656E-004 * x + 8.1173E-006$$

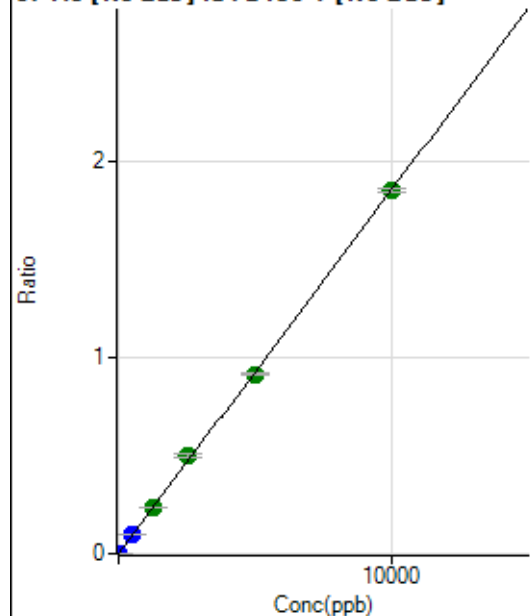
$$R = 0.9998$$

$$DL = 0.02134$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	22.22	0.0000	P	57.6
2	☐	5.000	5.125	10345.56	0.0010	P	2.3
3	☐	500.000	515.574	1021549.46	0.0956	P	1.8
4	☐	1250.000	1286.619	2464886.82	0.2385	A	0.5
5	☐	2500.000	2709.924	4830821.72	0.5024	A	3.9
6	☐	5000.000	4932.812	9386177.12	0.9145	A	1.0
7	☐	10000.000	9975.757	18985715.88	1.8494	A	1.1
8	☐			8402.65	0.0008	P	11.1

$$y = 1.8539E-004 * x + 2.0357E-006$$

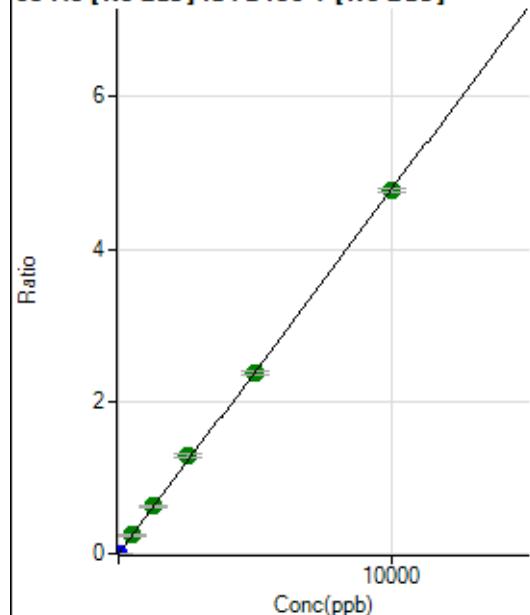
$$R = 0.9997$$

$$DL = 0.01897$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	27.78	0.0000	P	44.8
2	☐	5.000	5.177	26936.65	0.0025	P	1.7
3	☐	500.000	503.344	2573517.55	0.2408	A	1.8
4	☐	1250.000	1294.743	6400498.67	0.6194	A	0.7
5	☐	2500.000	2700.904	12422592.03	1.2921	A	4.1
6	☐	5000.000	4962.061	24363340.13	2.3738	A	1.5
7	☐	10000.000	9962.983	48925879.91	4.7661	A	1.1
8	☐			19928.18	0.0020	P	14.3

$$y = 4.7838\text{E-}004 * x + 2.5298\text{E-}006$$

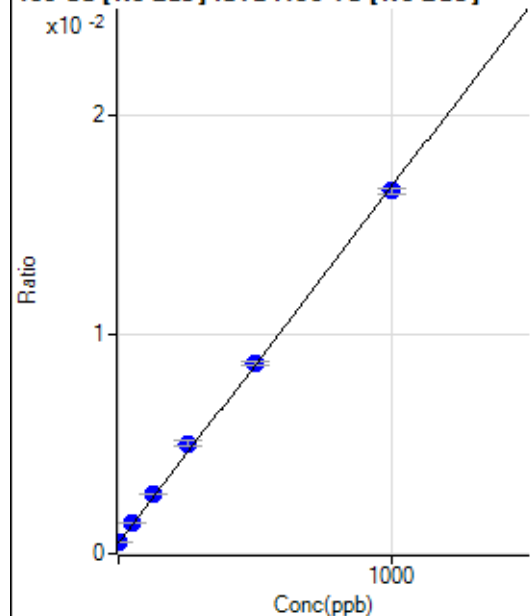
$$R = 0.9998$$

$$DL = 0.00711$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	5943.05	0.0005	P	0.9
2	☐	1.000	1.674	6187.60	0.0005	P	5.2
3	☐	50.000	57.570	17040.94	0.0014	P	0.7
4	☐	125.000	135.955	31863.23	0.0027	P	0.7
5	☐	250.000	279.482	55637.77	0.0050	P	5.1
6	☐	500.000	505.501	102978.04	0.0087	P	2.1
7	☐	1000.000	988.130	194987.38	0.0166	P	1.7
8	☐			5362.25	0.0005	P	5.7

$$y = 1.6283\text{E-}005 * x + 4.8667\text{E-}004$$

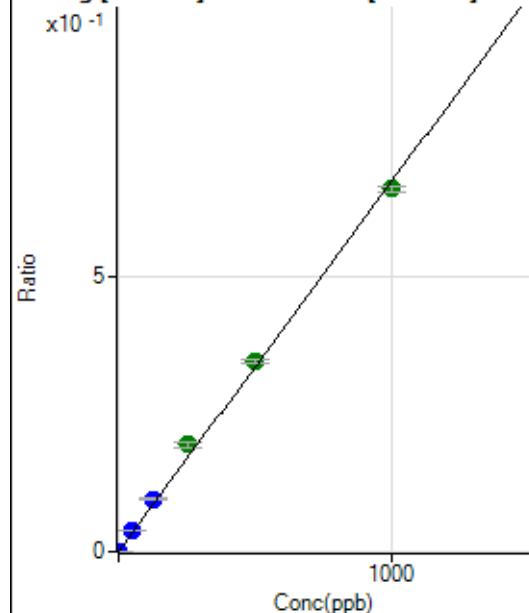
$$R = 0.9995$$

$$DL = 0.7657$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	88.89	0.0000	P	33.6
2	☐	1.000	1.139	9292.13	0.0008	P	3.4
3	☐	50.000	58.487	469403.26	0.0392	P	2.4
4	☐	125.000	142.791	1130028.81	0.0958	P	1.3
5	☐	250.000	288.599	2135875.81	0.1936	A	7.0
6	☐	500.000	513.954	4071804.17	0.3447	A	2.0
7	☐	1000.000	980.725	7737008.51	0.6577	A	1.7
8	☐			4175.72	0.0004	P	13.1

$$y = 6.7066\text{E-}004 * x + 7.2916\text{E-}006$$

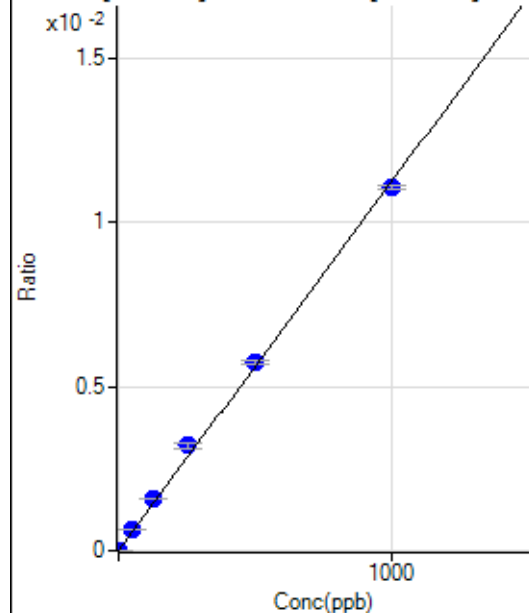
$$R = 0.9990$$

$$DL = 0.01095$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	86.6
2	☐	1.000	1.170	166.67	0.0000	P	8.8
3	☐	50.000	55.736	7507.57	0.0006	P	1.6
4	☐	125.000	141.464	18777.56	0.0016	P	1.0
5	☐	250.000	285.844	35499.05	0.0032	P	5.5
6	☐	500.000	510.360	67800.45	0.0057	P	2.4
7	☐	1000.000	983.514	130112.12	0.0111	P	1.0
8	☐			91.67	0.0000	P	51.5

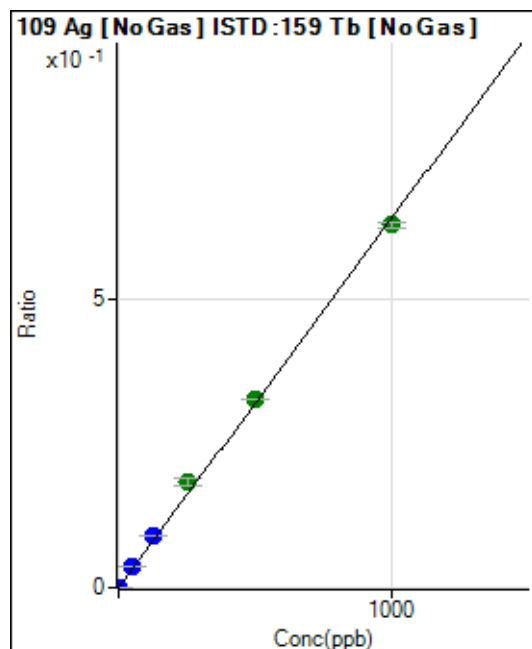
$$y = 1.1245\text{E-}005 * x + 6.8222\text{E-}007$$

$$R = 0.9991$$

$$DL = 0.1576$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8.33	0.0000	P	99.7
2	☐	1.000	1.116	8616.64	0.0007	P	5.2
3	☐	50.000	57.618	441650.49	0.0369	P	2.3
4	☐	125.000	142.071	1073920.88	0.0910	P	0.3
5	☐	250.000	285.979	2022063.46	0.1832	A	6.5
6	☐	500.000	510.939	3866584.03	0.3273	A	0.8
7	☐	1000.000	983.021	7407849.12	0.6297	A	1.5
8	☐			3864.51	0.0003	P	13.2

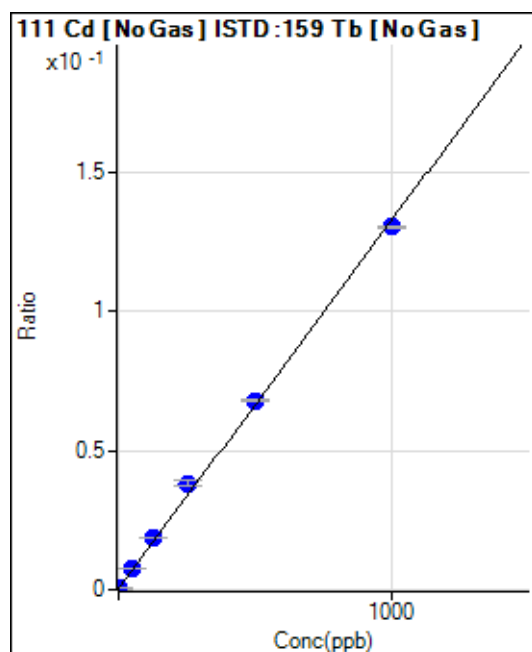
$$y = 6.4062\text{E-}004 * x + 6.7910\text{E-}007$$

$$R = 0.9991$$

$$DL = 0.003172$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4157.08	0.0003	P	0.9
2	☐	1.000	1.273	6128.69	0.0005	P	4.4
3	☐	50.000	56.836	94144.94	0.0079	P	1.8
4	☐	125.000	140.443	223511.77	0.0189	P	0.5
5	☐	250.000	286.208	422244.80	0.0382	P	6.0
6	☐	500.000	511.820	804833.46	0.0681	P	1.7
7	☐	1000.000	982.765	1535423.80	0.1305	P	0.3
8	☐			4382.49	0.0004	P	6.7

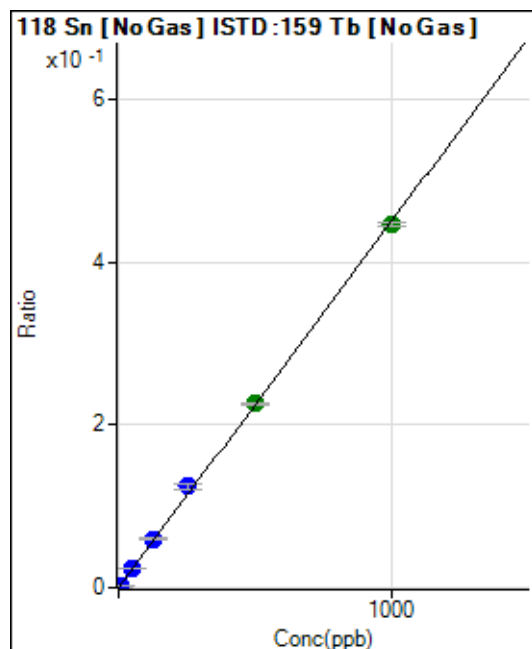
$$y = 1.3245\text{E-}004 * x + 3.4042\text{E-}004$$

$$R = 0.9991$$

$$DL = 0.06855$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	611.14	0.0001	P	7.1
2	☐	5.000	5.244	29060.52	0.0024	P	2.0
3	☐	50.000	53.894	291065.79	0.0243	P	2.5
4	☐	125.000	133.724	711339.83	0.0603	P	1.1
5	☐	250.000	277.007	1378047.82	0.1248	P	6.0
6	☐	500.000	502.922	2676825.23	0.2266	A	1.4
7	☐	1000.000	990.501	5250216.26	0.4462	A	1.2
8	☐			6462.74	0.0006	P	7.5

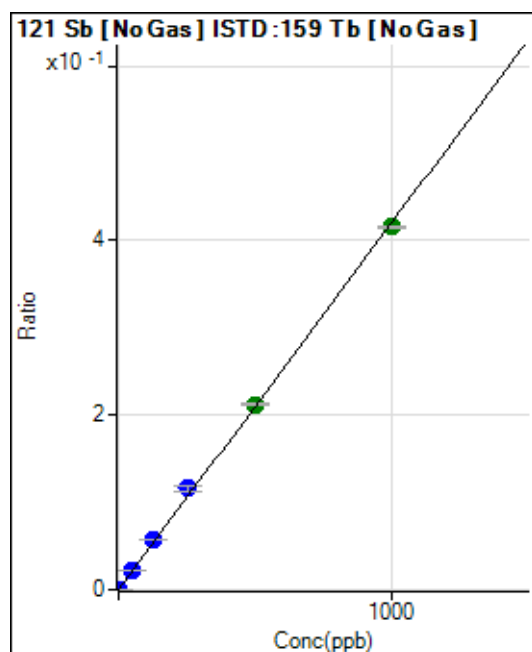
$$y = 4.5047\text{E-}004 * x + 5.0031\text{E-}005$$

$$R = 0.9996$$

$$DL = 0.02359$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.00	0.0000	P	66.2
2	☐	2.000	2.168	10993.35	0.0009	P	4.2
3	☐	50.000	53.350	268170.55	0.0224	P	1.9
4	☐	125.000	134.129	664843.57	0.0563	P	0.3
5	☐	250.000	276.237	1280962.54	0.1160	P	6.1
6	☐	500.000	505.435	2508053.90	0.2123	A	1.6
7	☐	1000.000	989.414	4890139.13	0.4156	A	0.5
8	☐			3492.18	0.0003	P	5.8

$$y = 4.2007\text{E-}004 * x + 2.0435\text{E-}006$$

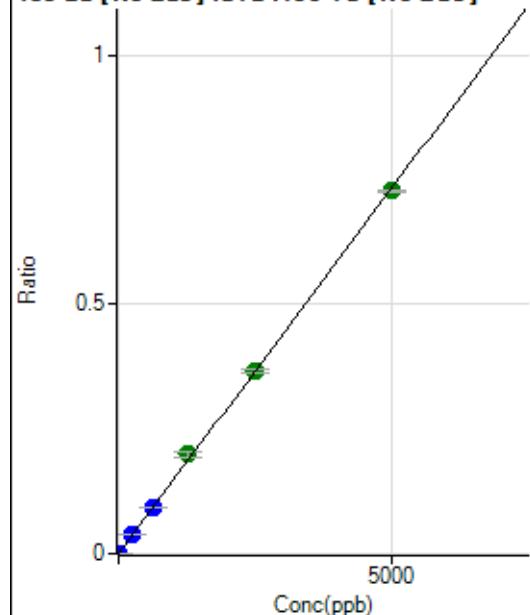
$$R = 0.9996$$

$$DL = 0.009655$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	19.45	0.0000	P	108.
2	☐	10.000	9.921	17533.48	0.0015	P	2.6
3	☐	250.000	251.996	441957.72	0.0369	P	1.4
4	☐	625.000	631.796	1092669.85	0.0926	P	0.4
5	☐	1250.000	1357.828	2197022.19	0.1990	A	6.2
6	☐	2500.000	2511.297	4347959.52	0.3681	A	2.0
7	☐	5000.000	4966.445	8563835.52	0.7279	A	0.9
8	☐			5881.91	0.0005	P	10.4

$$y = 1.4657E-004 * x + 1.6009E-006$$

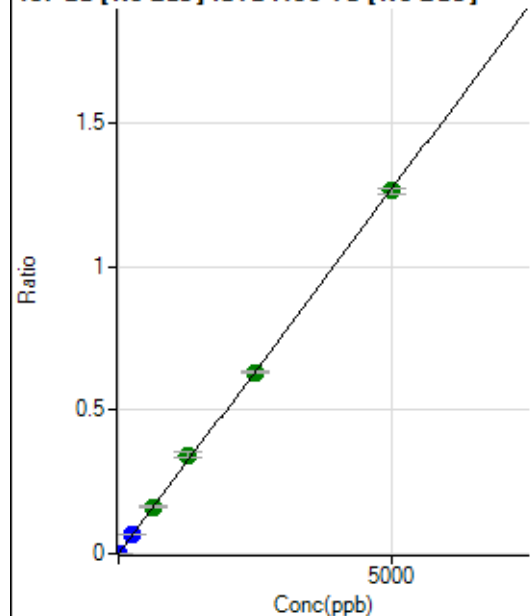
$$R = 0.9997$$

$$DL = 0.03541$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	66.1
2	☐	10.000	9.889	30282.92	0.0025	P	2.2
3	☐	250.000	253.339	769524.82	0.0643	P	2.1
4	☐	625.000	644.454	1930330.99	0.1636	A	0.7
5	☐	1250.000	1354.532	3795564.06	0.3439	A	6.2
6	☐	2500.000	2487.408	7459129.24	0.6314	A	1.6
7	☐	5000.000	4977.565	14863621.34	1.2636	A	1.7
8	☐			10184.50	0.0009	P	12.0

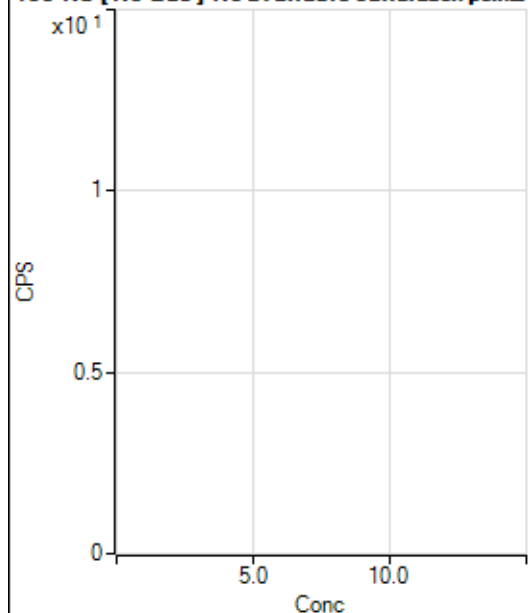
$$y = 2.5386E-004 * x + 3.8552E-006$$

$$R = 0.9997$$

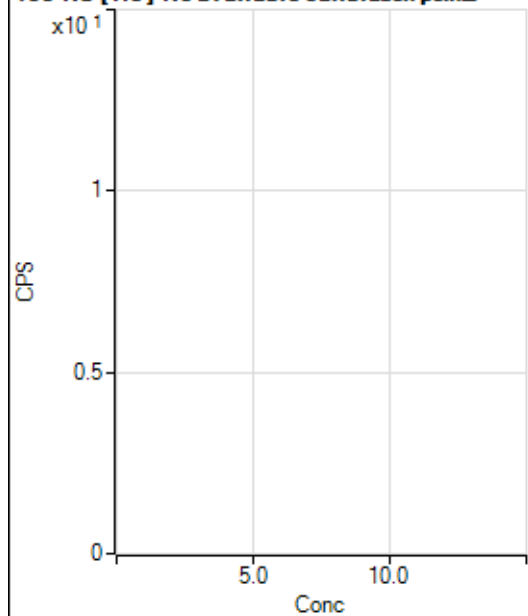
$$DL = 0.03012$$

Weight: <None>

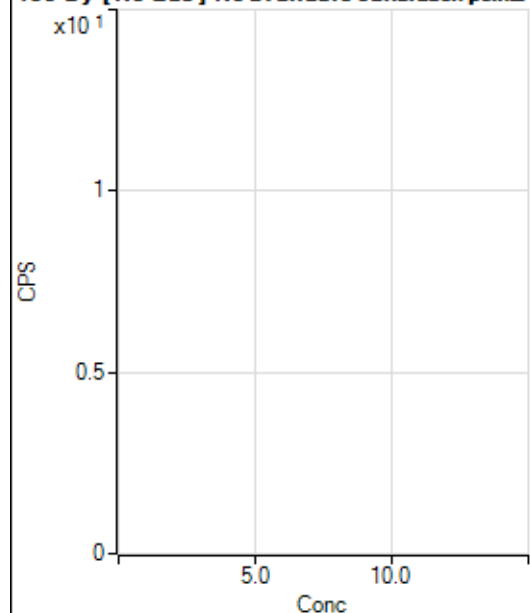
Min Conc: 0

150 Nd [No Gas] No available calibration points

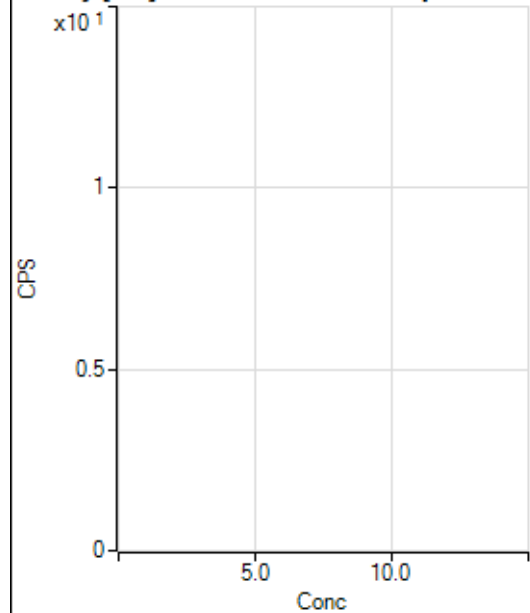
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.45		P	86.6
2	☐			15.55		P	107.
3	☐			124.45		P	43.6
4	☐			304.45		P	4.6
5	☐			606.69		P	14.4
6	☐			1217.85		P	1.1
7	☐			2200.22		P	3.7
8	☐			75.56		P	35.7

150 Nd [He] No available calibration points

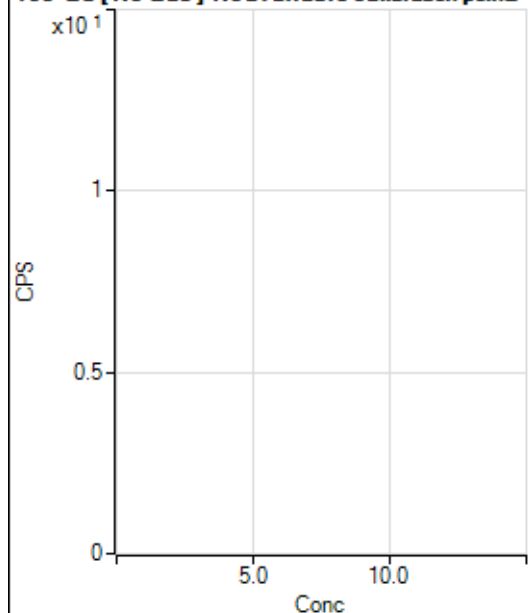
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2.22		P	86.6
2	☐			6.66		P	86.6
3	☐			22.22		P	85.3
4	☐			66.67		P	15.0
5	☐			123.34		P	2.7
6	☐			283.34		P	13.6
7	☐			453.34		P	5.1
8	☐			26.66		P	21.7

156 Dy [No Gas] No available calibration points

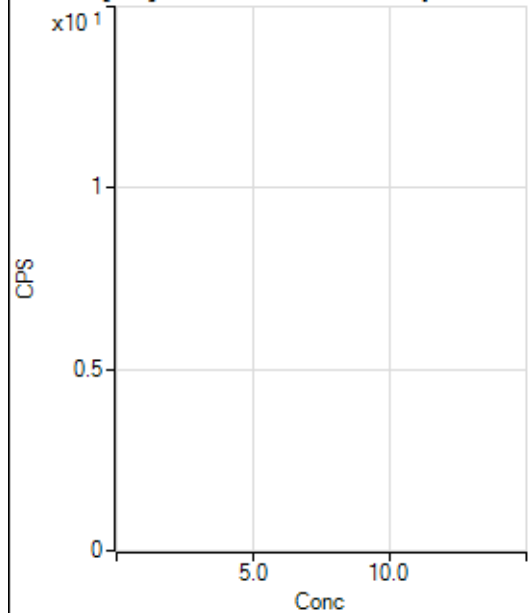
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.56		P	173.
2	☐			5.55		P	86.6
3	☐			55.56		P	34.6
4	☐			80.56		P	21.5
5	☐			169.45		P	34.5
6	☐			366.68		P	9.9
7	☐			686.15		P	4.9
8	☐			1497.34		P	6.7

156 Dy [He] No available calibration points

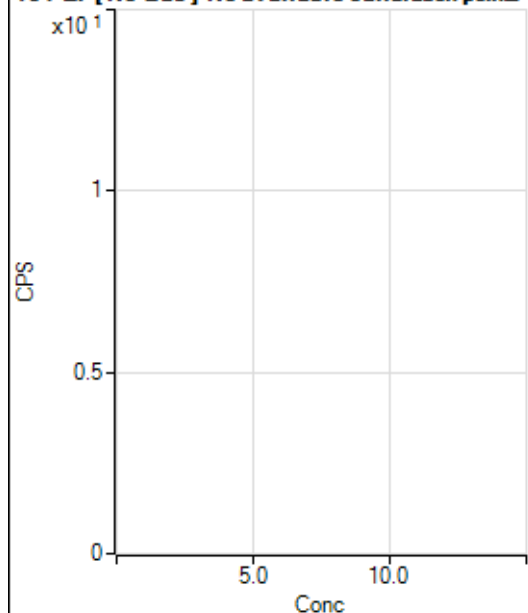
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			7.78		P	49.5
3	☐			46.67		P	7.1
4	☐			96.67		P	3.5
5	☐			136.67		P	4.9
6	☐			316.68		P	8.2
7	☐			552.24		P	6.0
8	☐			955.60		P	1.6

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

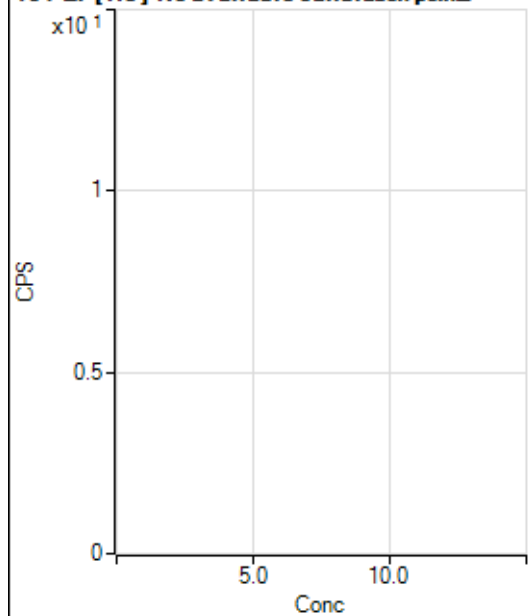
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			38.89		P	12.4
2	☐			36.11		P	48.0
3	☐			66.67		P	21.7
4	☐			75.00		P	11.1
5	☐			138.89		P	15.1
6	☐			286.12		P	11.0
7	☐			475.02		P	20.2
8	☐			1644.59		P	9.8

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			324.45		P	3.9
2	☐			340.01		P	21.6
3	☐			355.56		P	7.5
4	☐			350.01		P	13.2
5	☐			408.90		P	8.2
6	☐			494.46		P	3.9
7	☐			670.02		P	13.3
8	☐			1426.75		P	0.5

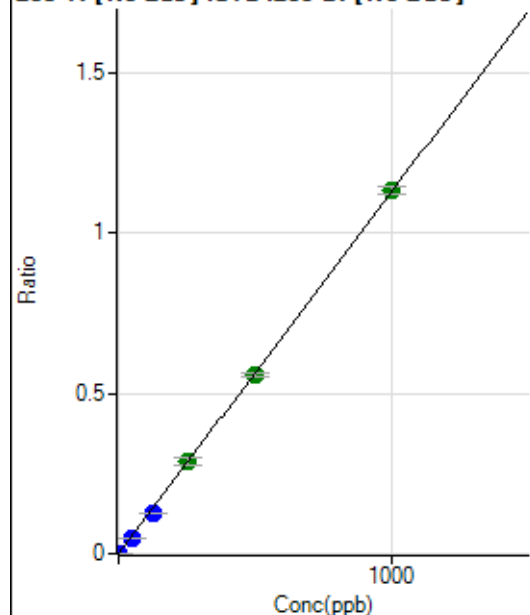
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			100.00		P	38.2
2	☐			66.67		P	33.1
3	☐			108.34		P	23.1
4	☐			102.78		P	28.5
5	☐			130.56		P	18.4
6	☐			172.23		P	18.3
7	☐			163.90		P	5.9
8	☐			155.56		P	25.3

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			72.22		P	27.8
2	☐			56.67		P	11.8
3	☐			80.00		P	15.0
4	☐			62.22		P	18.8
5	☐			70.00		P	12.6
6	☐			96.67		P	15.0
7	☐			143.33		P	16.8
8	☐			130.00		P	27.7

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	47.22	0.0000	P	38.2
2	☐	1.000	0.892	8541.81	0.0010	P	4.3
3	☐	50.000	44.675	417098.75	0.0504	P	1.1
4	☐	125.000	113.417	1047140.12	0.1280	P	1.1
5	☐	250.000	257.529	2189501.70	0.2905	A	8.0
6	☐	500.000	493.002	4359908.30	0.5562	A	2.3
7	☐	1000.000	1003.331	8507686.91	1.1320	A	2.0
8	☐			2505.86	0.0004	P	17.9

$$y = 0.0011 * x + 5.5748E-006$$

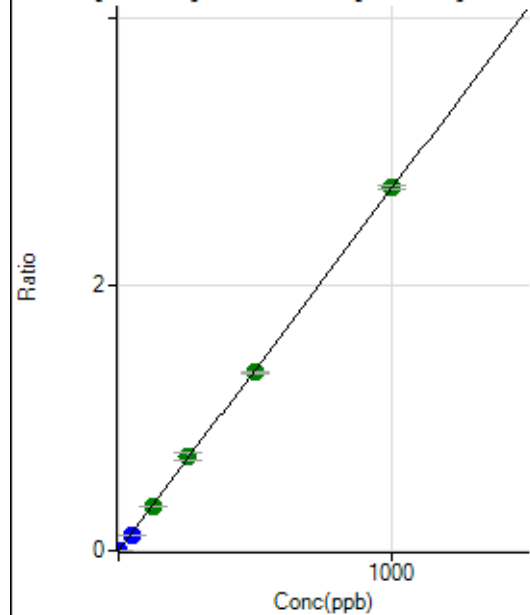
$$R = 0.9999$$

$$DL = 0.005657$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	125.01	0.0000	P	24.5
2	☐	1.000	0.873	20176.57	0.0024	P	4.0
3	☐	50.000	44.527	1003020.48	0.1212	P	0.8
4	☐	125.000	122.364	2725921.70	0.3331	A	2.2
5	☐	250.000	260.198	5337793.22	0.7083	A	8.0
6	☐	500.000	491.446	10486368.03	1.3378	A	2.0
7	☐	1000.000	1002.331	20507091.95	2.7284	A	1.0
8	☐			5862.57	0.0010	P	21.6

$$y = 0.0027 * x + 1.4728E-005$$

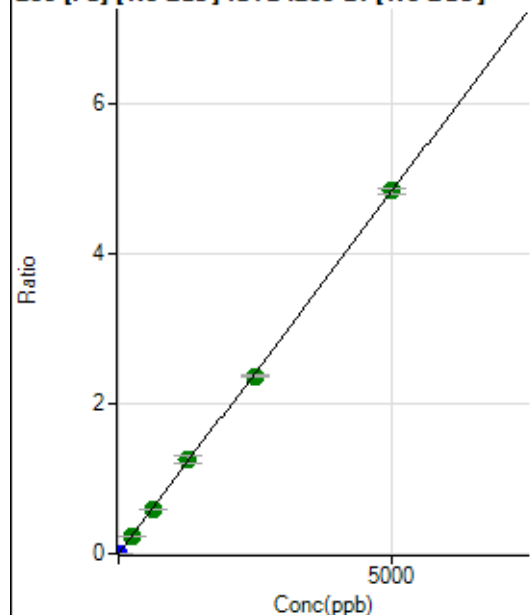
$$R = 0.9999$$

$$DL = 0.003979$$

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	172.22	0.0000	P	6.6
2	☐	1.000	0.817	6822.19	0.0008	P	3.9
3	☐	250.000	241.313	1927000.45	0.2329	A	1.8
4	☐	625.000	614.035	4849012.26	0.5926	A	1.4
5	☐	1250.000	1308.839	9514482.74	1.2630	A	8.7
6	☐	2500.000	2455.030	18571397.17	2.3691	A	1.1
7	☐	5000.000	5009.580	36333463.08	4.8343	A	1.9
8	☐			11397.62	0.0019	P	13.9

$$y = 9.6500\text{E-}004 * x + 2.0277\text{E-}005$$

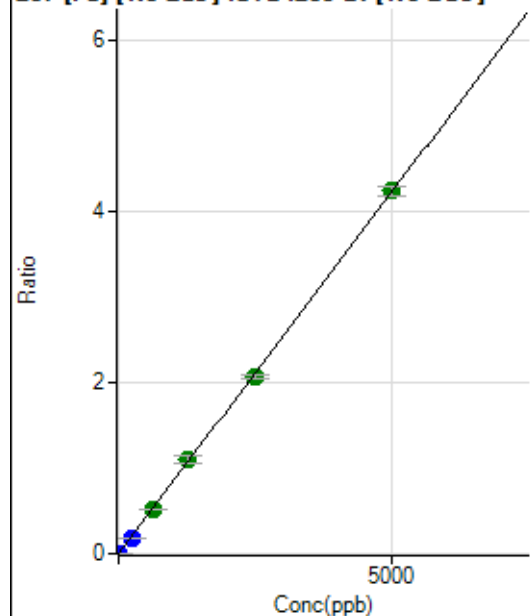
$$R = 0.9999$$

$$DL = 0.004169$$

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	87.04	0.0000	P	26.6
2	☐	1.000	0.826	5971.79	0.0007	P	1.5
3	☐	250.000	214.897	1501411.13	0.1815	P	1.2
4	☐	625.000	619.834	4282725.15	0.5233	A	0.7
5	☐	1250.000	1302.333	8290231.96	1.0996	A	7.1
6	☐	2500.000	2441.747	16160774.55	2.0616	A	1.6
7	☐	5000.000	5018.444	31845135.67	4.2371	A	2.8
8	☐			9655.52	0.0016	P	17.6

$$y = 8.4431\text{E-}004 * x + 1.0261\text{E-}005$$

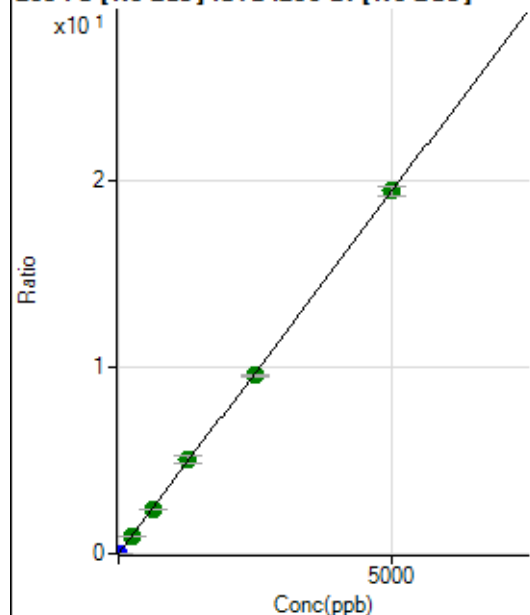
$$R = 0.9998$$

$$DL = 0.009701$$

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	590.75	0.0001	P	13.0
2	☐	1.000	0.820	27403.95	0.0032	P	2.0
3	☐	250.000	237.309	7606296.11	0.9193	A	1.1
4	☐	625.000	616.546	19543413.22	2.3882	A	0.7
5	☐	1250.000	1306.405	38133573.25	5.0602	A	8.0
6	☐	2500.000	2457.320	74610743.45	9.5181	A	1.9
7	☐	5000.000	5008.930	145815840.2	19.4014	A	2.4
8	☐			45002.98	0.0073	P	16.4

$$y = 0.0039 * x + 6.9592E-005$$

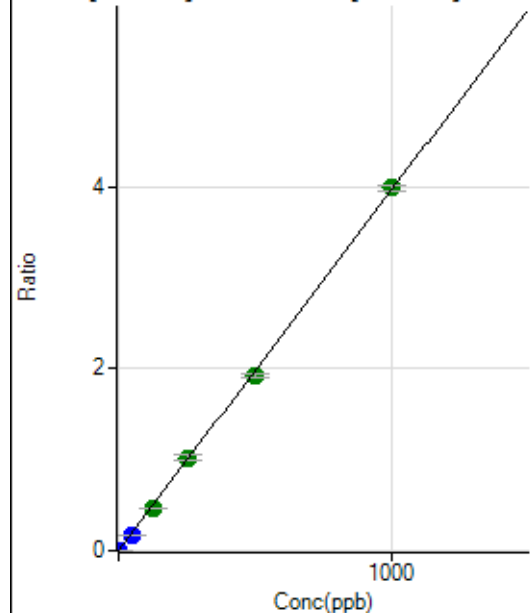
$$R = 0.9999$$

$$DL = 0.007033$$

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	75.00	0.0000	P	29.2
2	☐	1.000	0.784	26283.45	0.0031	P	3.1
3	☐	50.000	40.300	1321226.89	0.1597	P	1.4
4	☐	125.000	118.499	3842010.50	0.4695	A	2.0
5	☐	250.000	257.034	7679033.42	1.0184	A	6.8
6	☐	500.000	486.666	15114070.74	1.9282	A	2.6
7	☐	1000.000	1006.206	29962217.51	3.9866	A	1.9
8	☐			5317.99	0.0009	P	32.6

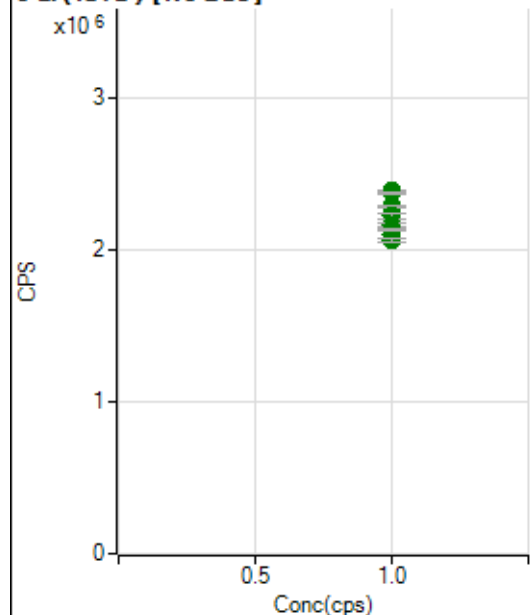
$$y = 0.0040 * x + 8.8249E-006$$

$$R = 0.9998$$

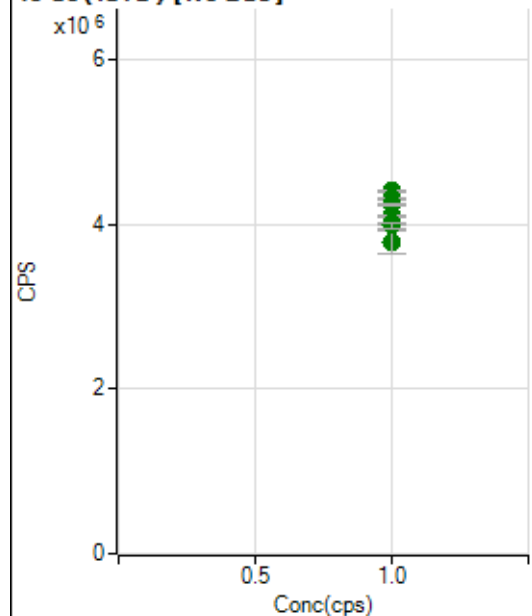
$$DL = 0.001949$$

Weight: <None>

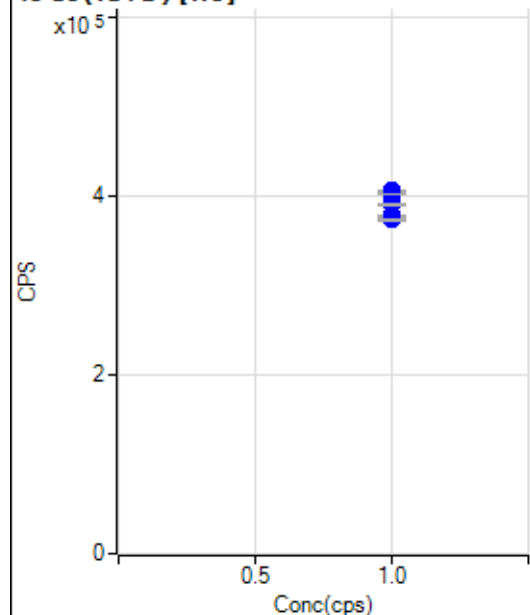
Min Conc: 0

6 Li (ISTD) [No Gas]

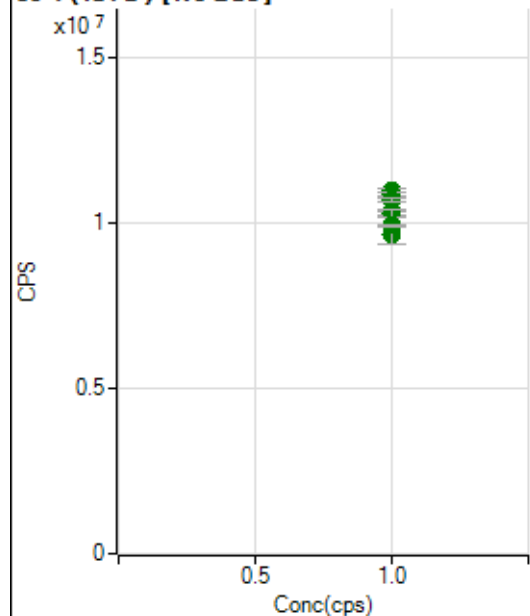
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2391268.33		A	0.3
2	☐	1.000		2376618.73		A	0.6
3	☐	1.000		2291656.70		A	0.7
4	☐	1.000		2225076.36		A	1.7
5	☐	1.000		2101333.20		A	4.6
6	☐	1.000		2168813.54		A	0.8
7	☐	1.000		2139325.07		A	0.6
8	☐	1.000		2066866.29		A	1.1

45 Sc (ISTD) [No Gas]

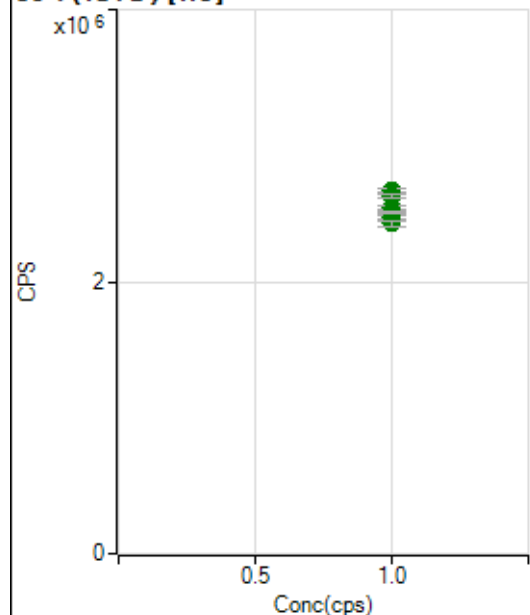
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4411513.68		A	0.8
2	☐	1.000		4324402.68		A	0.6
3	☐	1.000		4244635.01		A	1.0
4	☐	1.000		4113118.31		A	0.5
5	☐	1.000		3787222.72		A	7.5
6	☐	1.000		4006326.92		A	0.5
7	☐	1.000		4014001.89		A	0.4
8	☐	1.000		3994541.16		A	1.8

45 Sc (ISTD) [He]

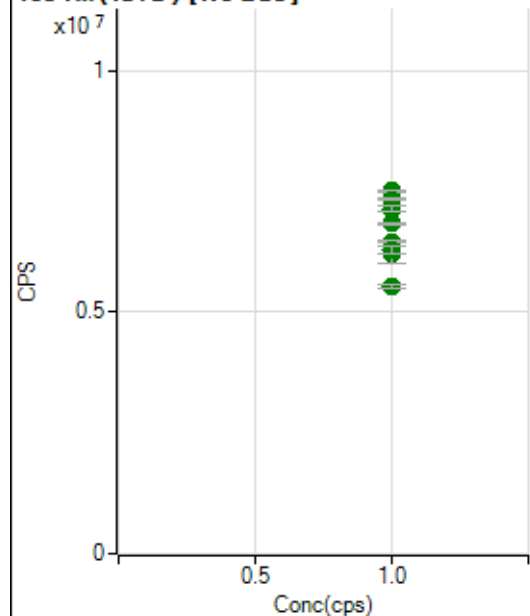
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		405017.38		P	0.8
2	☐	1.000		400900.79		P	0.3
3	☐	1.000		389960.94		P	0.2
4	☐	1.000		377223.46		P	0.5
5	☐	1.000		377778.07		P	0.2
6	☐	1.000		376311.40		P	1.0
7	☐	1.000		376271.04		P	0.8
8	☐	1.000		373144.99		P	0.8

89 Y (ISTD) [No Gas]

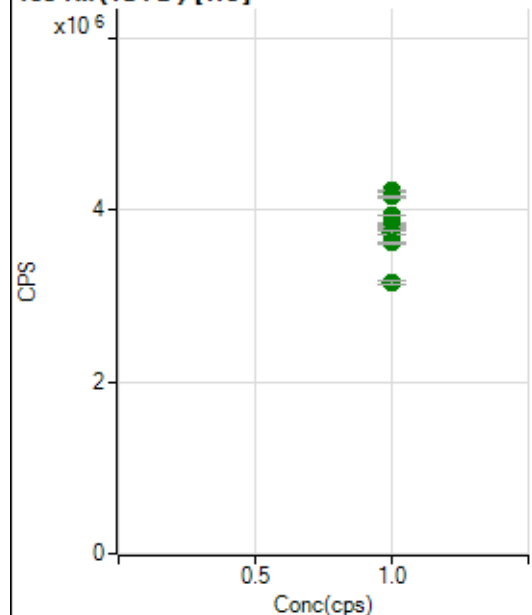
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10948200.12		A	1.0
2	☐	1.000		10865402.27		A	1.0
3	☐	1.000		10688873.45		A	1.3
4	☐	1.000		10333408.46		A	0.5
5	☐	1.000		9631172.50		A	6.3
6	☐	1.000		10263412.90		A	0.9
7	☐	1.000		10266896.31		A	2.2
8	☐	1.000		9899117.63		A	0.7

89 Y (ISTD) [He]

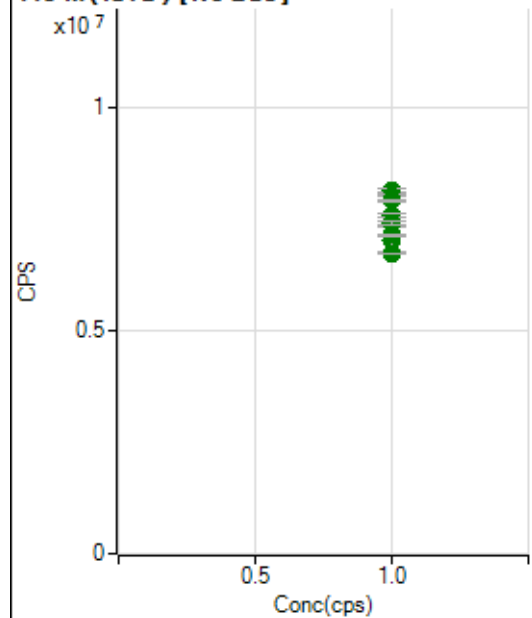
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2670452.34		A	1.1
2	☐	1.000		2629534.32		A	1.3
3	☐	1.000		2552376.91		A	1.0
4	☐	1.000		2472274.34		A	1.3
5	☐	1.000		2508486.51		A	1.9
6	☐	1.000		2502221.11		A	0.8
7	☐	1.000		2512692.41		A	0.5
8	☐	1.000		2428976.25		A	2.0

103 Rh (ISTD) [No Gas]

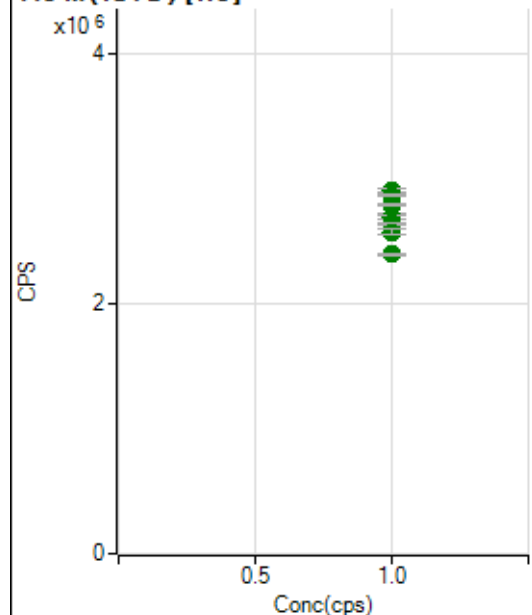
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7502341.28		A	0.6
2	☐	1.000		7328096.00		A	0.5
3	☐	1.000		7133937.33		A	1.7
4	☐	1.000		6824361.64		A	0.4
5	☐	1.000		6219468.52		A	7.4
6	☐	1.000		6459419.63		A	0.3
7	☐	1.000		6277928.38		A	2.1
8	☐	1.000		5525616.38		A	0.9

103 Rh (ISTD) [He]

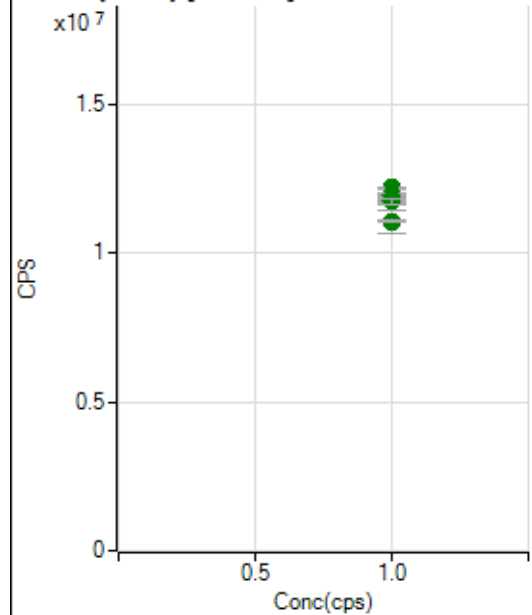
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4225795.07		A	0.3
2	☐	1.000		4157293.55		A	0.3
3	☐	1.000		3946385.08		A	0.2
4	☐	1.000		3838319.56		A	0.5
5	☐	1.000		3797059.63		A	0.6
6	☐	1.000		3735634.56		A	1.5
7	☐	1.000		3622328.94		A	0.5
8	☐	1.000		3152567.42		A	1.6

115 In (ISTD) [No Gas]

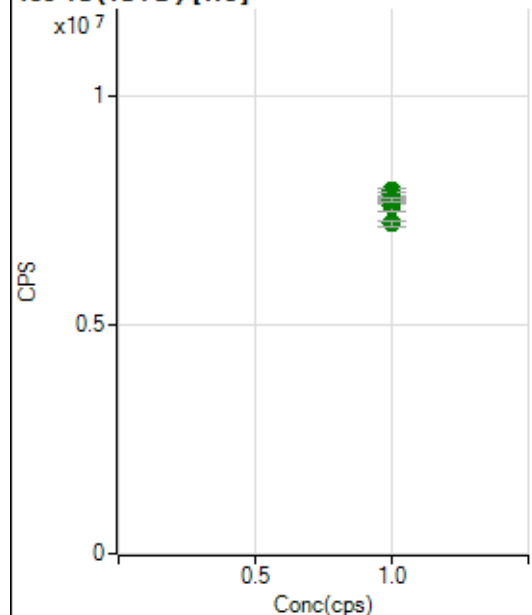
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8140720.19		A	1.0
2	☐	1.000		8045383.75		A	0.4
3	☐	1.000		7926704.30		A	0.5
4	☐	1.000		7610106.76		A	1.1
5	☐	1.000		7048076.96		A	7.6
6	☐	1.000		7421000.26		A	1.1
7	☐	1.000		7143642.28		A	0.5
8	☐	1.000		6737942.45		A	0.3

115 In (ISTD) [He]

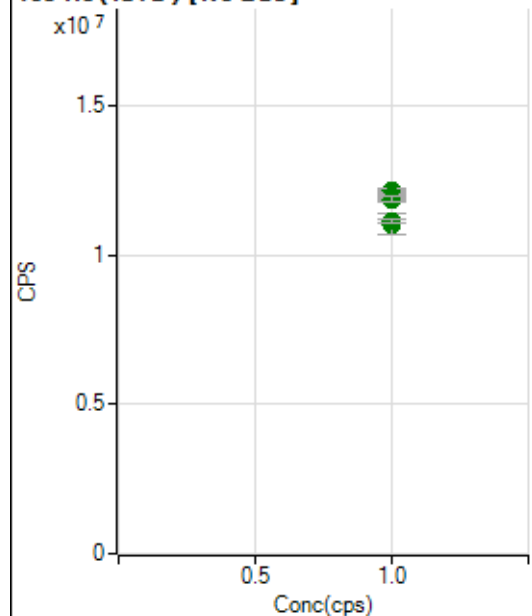
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2904497.51		A	1.1
2	☐	1.000		2870789.43		A	0.8
3	☐	1.000		2789419.62		A	0.6
4	☐	1.000		2697319.69		A	1.6
5	☐	1.000		2690745.51		A	1.3
6	☐	1.000		2640520.29		A	0.5
7	☐	1.000		2575865.98		A	1.5
8	☐	1.000		2397807.99		A	0.4

159 Tb (ISTD) [No Gas]

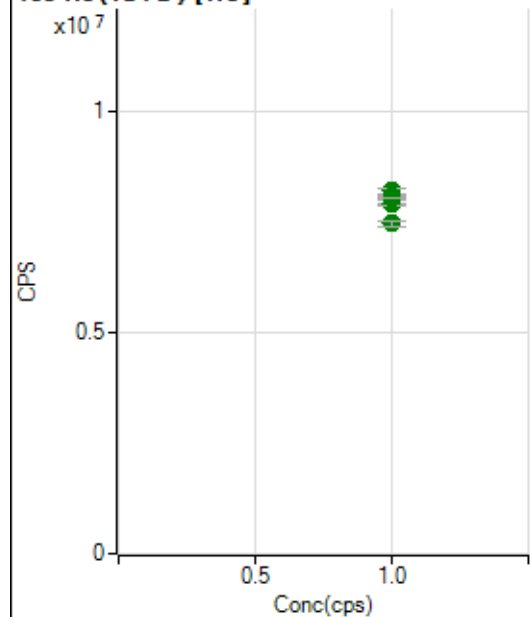
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12211314.82		A	0.7
2	☐	1.000		12046684.54		A	1.6
3	☐	1.000		11966450.52		A	1.2
4	☐	1.000		11799491.63		A	1.2
5	☐	1.000		11069141.57		A	6.8
6	☐	1.000		11813255.10		A	0.6
7	☐	1.000		11765041.91		A	1.6
8	☐	1.000		11094878.31		A	0.1

159 Tb (ISTD) [He]

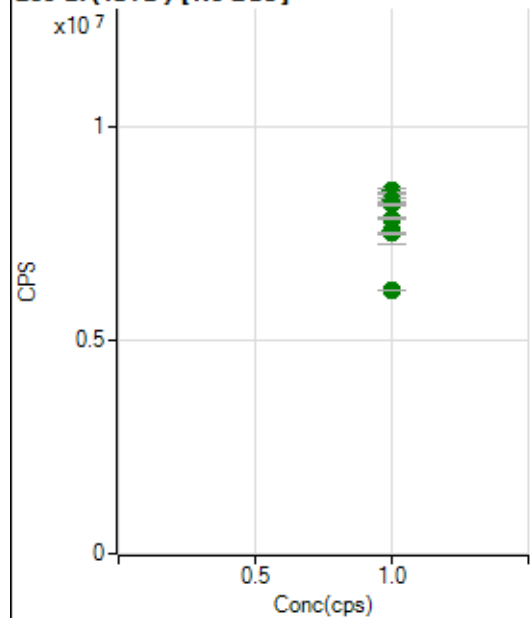
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		7933432.73		A	1.2
2	☐	1.000		7878466.06		A	0.9
3	☐	1.000		7686471.27		A	0.4
4	☐	1.000		7592404.68		A	2.4
5	☐	1.000		7742420.51		A	1.0
6	☐	1.000		7725277.04		A	0.5
7	☐	1.000		7741675.58		A	1.2
8	☐	1.000		7213328.36		A	1.5

165 Ho (ISTD) [No Gas]

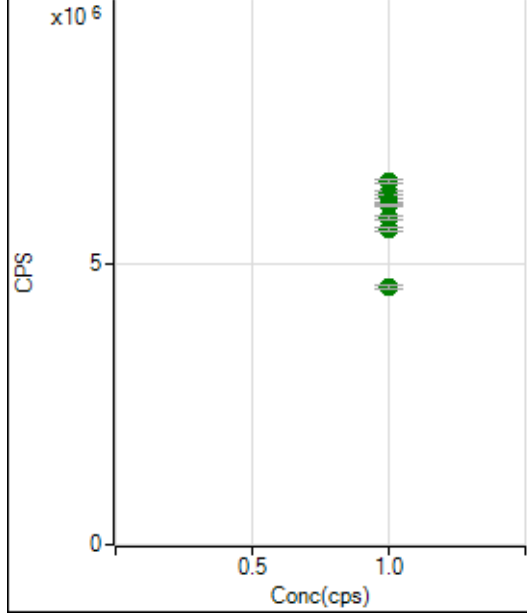
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		12088426.35		A	1.1
2	☐	1.000		12142755.93		A	1.0
3	☐	1.000		12001740.79		A	0.6
4	☐	1.000		11880868.44		A	0.5
5	☐	1.000		11015173.10		A	6.4
6	☐	1.000		11945295.10		A	1.2
7	☐	1.000		11859842.05		A	1.4
8	☐	1.000		11142799.97		A	1.1

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8199205.85		A	1.5
2	☐	1.000		8097657.17		A	0.9
3	☐	1.000		7985979.74		A	1.6
4	☐	1.000		7920053.70		A	1.7
5	☐	1.000		8043937.73		A	1.1
6	☐	1.000		8047566.13		A	1.2
7	☐	1.000		8027785.02		A	0.1
8	☐	1.000		7465718.85		A	1.9

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8497726.82		A	1.4
2	☐	1.000		8439328.34		A	0.8
3	☐	1.000		8274629.11		A	0.9
4	☐	1.000		8183472.52		A	0.6
5	☐	1.000		7568706.97		A	8.2
6	☐	1.000		7839249.05		A	0.5
7	☐	1.000		7516364.61		A	0.6
8	☐	1.000		6158624.49		A	0.1

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6465525.18		A	1.1
2	☐	1.000		6284849.28		A	1.0
3	☐	1.000		6202017.55		A	0.8
4	☐	1.000		6085352.41		A	0.5
5	☐	1.000		6054280.05		A	0.6
6	☐	1.000		5830696.79		A	1.0
7	☐	1.000		5621480.68		A	0.7
8	☐	1.000		4595567.08		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\IP7021723 MS.b

Acq. Date-Time 2023-02-17 14:29:39

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7315	73145.78			0.588	5.000
24		84017	840171.54			0.379	5.000
25		11690	116895.80			0.348	5.000
26		13459	134589.65			0.261	5.000
59		64190	641896.58			0.296	5.000
113		8535	85353.81			0.851	5.000
115		113121	1131209.08			0.268	5.000
206		34196	341964.26			0.660	5.000
207		32575	325747.05			0.419	5.000
208		74168	741683.44			0.492	5.000
220		0	0.40			104.583	

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

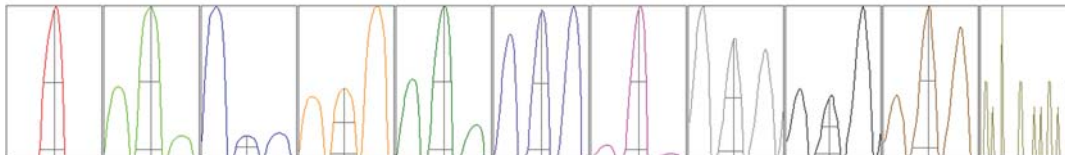
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7377	7339	7295	7295	7268
24	84110	83943	84101	84402	83530
25	11694	11734	11630	11717	11672
26	13406	13489	13459	13493	13448
59	63919	64060	64322	64312	64336
113	8409	8559	8590	8548	8571
115	112653	113369	113200	113381	113001
206	33819	34373	34270	34168	34352
207	32343	32623	32706	32600	32601
208	73599	74027	74310	74508	74398

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	13103.72	9.05	8.90 - 9.10	
24	134283.52	24.00	23.90 - 24.10	
25	18398.32	24.95	24.90 - 25.10	
26	20996.98	25.95	25.90 - 26.10	
59	118856.52	59.05	58.90 - 59.10	
113	18111.43	113.05	112.90 - 113.10	
115	233966.46	115.05	114.90 - 115.10	
206	69020.25	205.95	205.90 - 206.10	
207	60997.59	206.90	206.90 - 207.10	
208	152410.75	207.95	207.90 - 208.10	
220	0.00	219.70	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.59	0.779	0.900	
24	0.65	0.828	0.900	
25	0.66	0.811	0.900	
26	0.68	0.831	0.900	
59	0.56	0.760	0.900	
113	0.49	0.705	0.900	
115	0.49	0.702	0.900	
206	0.50	0.787	0.900	
207	0.51	0.803	0.900	
208	0.49	0.817	0.900	
220	0.18	0.175		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.87 L/min Dilution Gas 0.40 L/min

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.2 V	Deflect	16.0 V
Extract 2	-90.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-55 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	190 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9999	QP Bias	-3.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2257 V	Pulse HV	1475 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		21894	218942.28			0.354	
89		46821	468205.12			0.404	
205		29614	296139.38			0.488	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	21886	21795	21986	21849	21955
89	47127	46713	46659	46877	46726
205	29598	29531	29751	29764	29426

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	9.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.0 V	Deflect	2.6 V
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US EPA Tune Check Report

Extract 2	-85.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-55 V	Cell Exit	-60 V		

Cell Parameters

Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	170 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9999	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.03		

Hardware Settings

Torch

Torch H	-0.7 mm	Torch V	0.5 mm
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EM

Discriminator	3.2 mV	Analog HV	2257 V	Pulse HV	1475 V
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