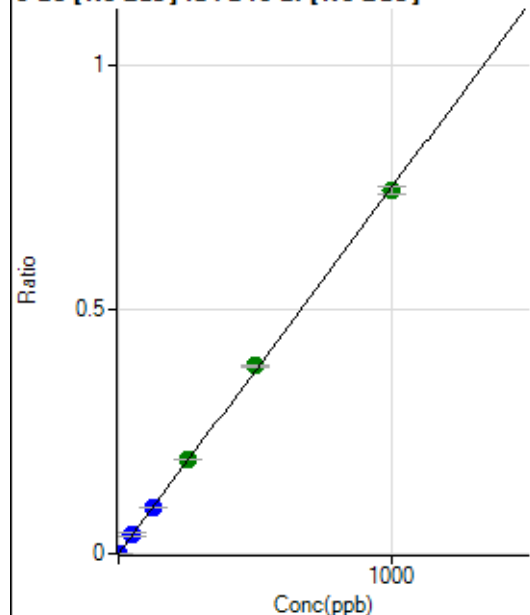


Calibration for 015LLIC.d

Batch Folder: D:\Agilent\ICPMH\1\DATA\P8012025MS-02.b\
 Analysis File: P8012025MS-02.batch.bin
 DA Date-Time: 2025-01-20 13:54:07
 Calibration Title:
 Calibration Method: External Calibration
 VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-01-20 13:16:54
2	006CALS.d	S02	2025-01-20 13:23:37
3	007CALB.d	S03	2025-01-20 13:26:58
4	008CALS.d	S04	2025-01-20 13:30:05
5	009CALS.d	S05	2025-01-20 13:33:02
6	010CALS.d	S06	2025-01-20 13:35:55
7	011CALS.d	S07	2025-01-20 13:38:40
8	012CALS.d	S08	2025-01-20 13:41:27

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	300.80	0.0000	P	1.3
2	☐	1.000	0.986	6172.62	0.0008	P	9.0
3	☐	50.000	51.924	280337.75	0.0389	P	19.6
4	☐	125.000	124.480	664482.27	0.0931	P	0.8
5	☐	250.000	257.183	1373427.65	0.1924	A	1.5
6	☐	500.000	513.722	2617752.37	0.3843	A	1.4
7	☐	1000.000	991.312	4919461.06	0.7415	A	2.2
8	☐			1228.24	0.0002	P	14.4

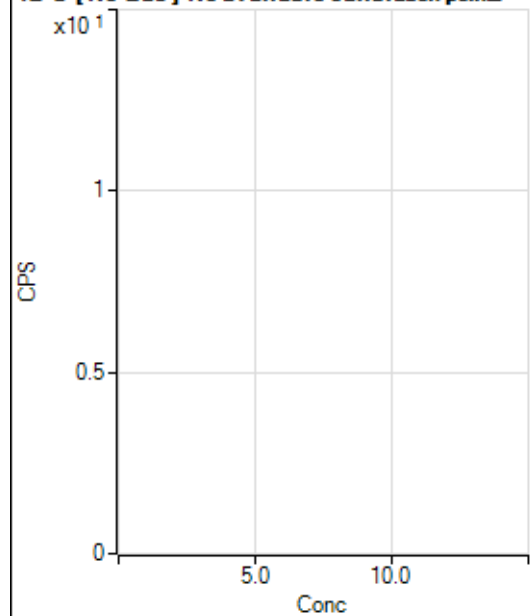
$$y = 7.4797\text{E-}004 * x + 4.0321\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.002056$$

Weight: <None>

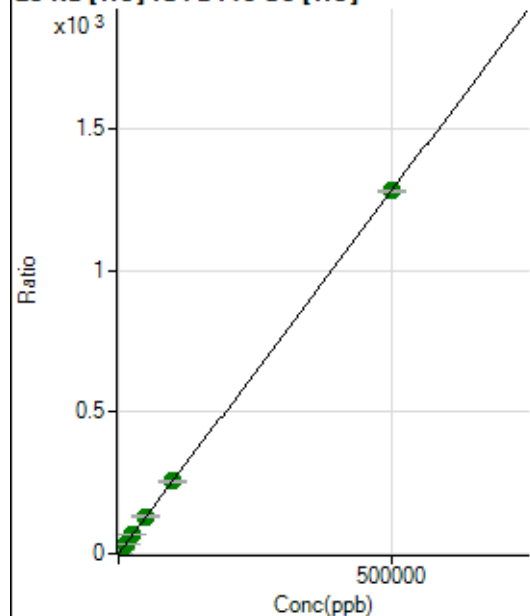
Min Conc: 0

12 C [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐			2988767.87		A	0.7
2	☐			3413285.61		A	1.0
3	☐			3381751.13		A	2.8
4	☐			3362685.65		A	1.0
5	☐			3391706.51		A	0.9
6	☐			3595805.05		A	1.4
7	☐			4025413.31		A	2.6
8	☐			5689364.53		A	13.4

12 C [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			20349.72		P	0.2
2	☐			23176.11		P	0.3
3	☐			22688.68		P	0.6
4	☐			23052.53		P	0.1
5	☐			23863.86		P	0.1
6	☐			26215.62		P	1.5
7	☐			30190.99		P	0.5
8	☐			54903.15		P	0.5

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	19756.79	0.1115	P	1.1
2	☐	500.000	568.028	266513.12	1.5679	P	4.1
3	☐	5000.000	5125.352	2403126.88	13.2523	A	1.7
4	☐	12500.000	12823.617	5755021.44	32.9898	A	1.0
5	☐	25000.000	25658.172	11365147.33	65.8962	A	3.3
6	☐	50000.000	51196.294	22803129.94	131.3731	A	1.8
7	☐	100000.00	99385.558	44902612.66	254.9250	A	1.3
8	☐	500000.00	499960.93	193092612.6	1,281.955	A	0.4

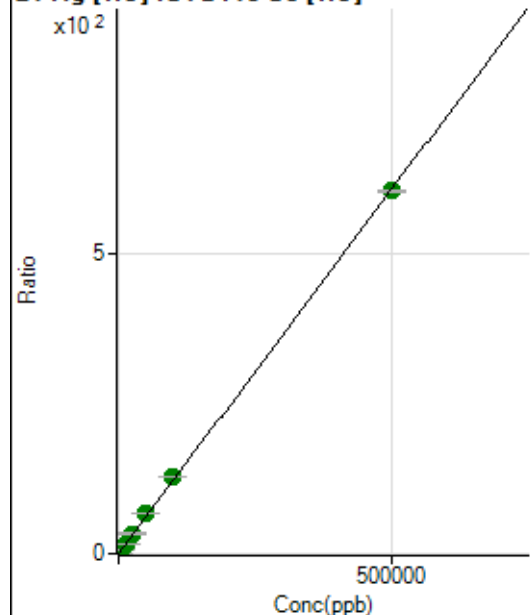
$$y = 0.0026 * x + 0.1115$$

$$R = 1.0000$$

$$DL = 1.442$$

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	494.46	0.0028	P	27.0
2	☐	500.000	622.568	128868.04	0.7582	P	4.4
3	☐	5000.000	5536.159	1218508.36	6.7199	A	2.7
4	☐	12500.000	14095.477	2984043.39	17.1051	A	1.4
5	☐	25000.000	27685.849	5794146.51	33.5946	A	3.3
6	☐	50000.000	55084.747	11602091.08	66.8383	A	0.1
7	☐	100000.00	106241.77	22706176.33	128.9082	A	0.7
8	☐	500000.00	498063.50	91024075.31	604.3137	A	0.3

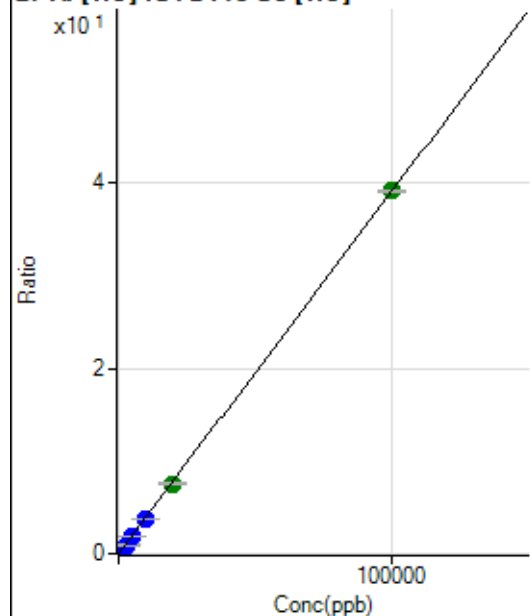
$$y = 0.0012 * x + 0.0028$$

$$R = 0.9999$$

$$DL = 1.866$$

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	70.00	0.0004	P	17.8
2	☐	20.000	20.812	1447.87	0.0085	P	4.2
3	☐	1000.000	944.228	66907.35	0.3689	P	0.1
4	☐	2500.000	2383.290	162302.52	0.9304	P	0.6
5	☐	5000.000	4744.231	319389.22	1.8517	P	2.8
6	☐	10000.000	9454.023	640443.72	3.6896	P	0.6
7	☐	20000.000	19261.848	1324002.93	7.5168	A	2.4
8	☐	100000.00	100218.49	5890618.18	39.1079	A	0.8

$$y = 3.9022E-004 * x + 3.9543E-004$$

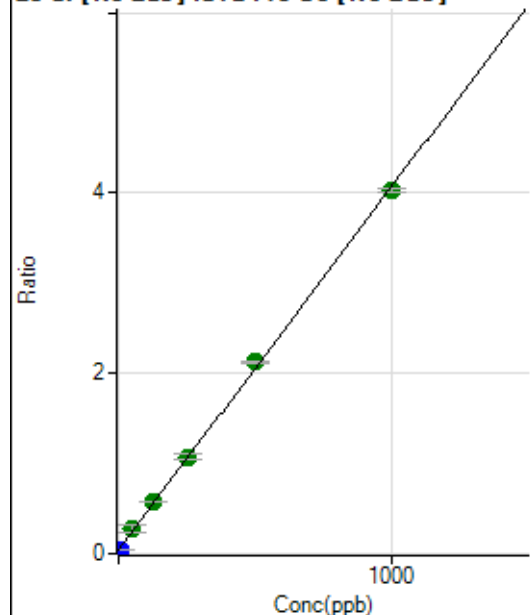
$$R = 1.0000$$

$$DL = 0.5424$$

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	439018.00	0.0430	P	1.2
2	☐	10.000	1.318	521372.71	0.0483	P	11.8
3	☐	50.000	57.947	2657734.09	0.2762	A	24.1
4	☐	125.000	132.944	5819722.69	0.5781	A	1.2
5	☐	250.000	256.762	10867568.59	1.0766	A	4.9
6	☐	500.000	516.477	21210476.35	2.1221	A	0.1
7	☐	1000.000	988.767	40188977.18	4.0233	A	1.0
8	☐			540090.23	0.0630	P	2.0

$$y = 0.0040 * x + 0.0430$$

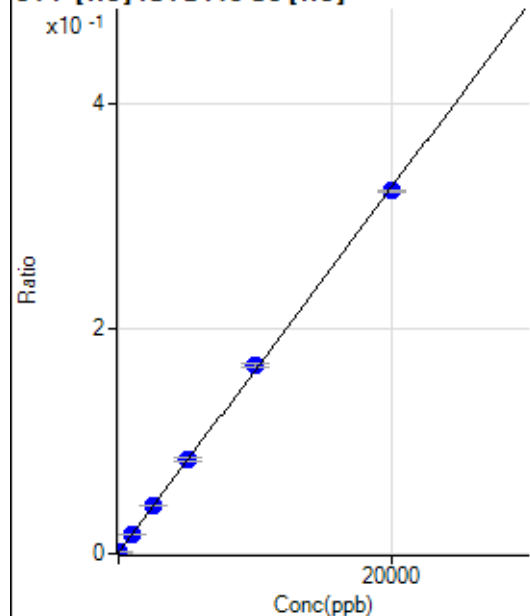
$$R = 0.9996$$

$$DL = 0.383$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-23.439	77.78	0.0004	P	8.7
2	☐	0.000	23.439	203.34	0.0012	P	15.1
3	☐	1000.000	984.002	3041.46	0.0168	P	5.2
4	☐	2500.000	2573.995	7425.29	0.0426	P	1.6
5	☐	5000.000	5122.984	14469.52	0.0839	P	4.2
6	☐	10000.000	10292.600	29115.88	0.1677	P	1.5
7	☐	20000.000	19814.504	56746.10	0.3222	P	0.6
8	☐			103.33	0.0007	P	25.9

$$y = 1.6217E-005 * x + 8.1905E-004$$

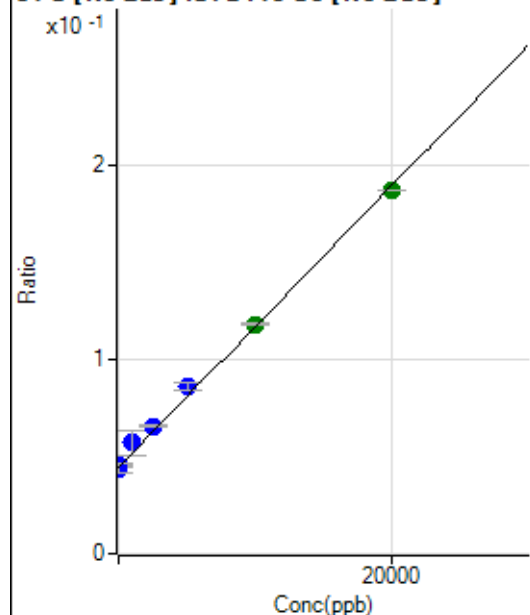
$$R = 0.9998$$

$$DL = 20.32$$

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	91.436	462277.32	0.0453	P	0.6
2	☐	0.000	-91.436	474393.64	0.0439	P	11.6
3	☐	1000.000	1719.693	550804.56	0.0571	P	22.4
4	☐	2500.000	2931.589	663142.57	0.0659	P	0.9
5	☐	5000.000	5790.737	874672.92	0.0866	P	4.7
6	☐	10000.000	10161.177	1183245.55	0.1184	A	1.3
7	☐	20000.000	19631.794	1869666.39	0.1872	A	0.1
8	☐			341644.28	0.0398	P	0.8

$$y = 7.2621\text{E-}006 * x + 0.0446$$

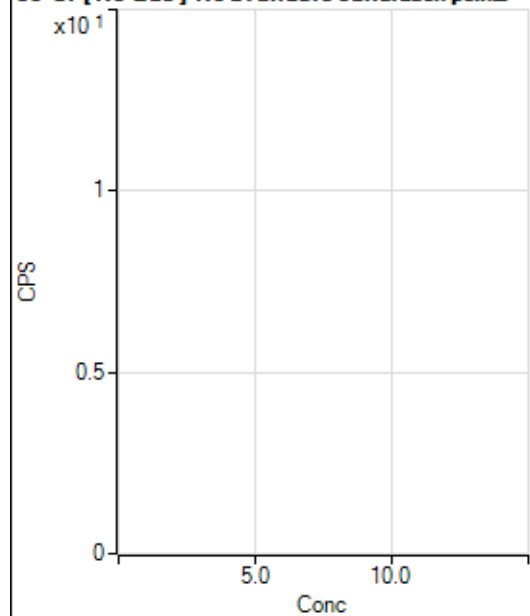
$$R = 0.9987$$

$$DL = 1115$$

Weight: <None>

Min Conc: 0

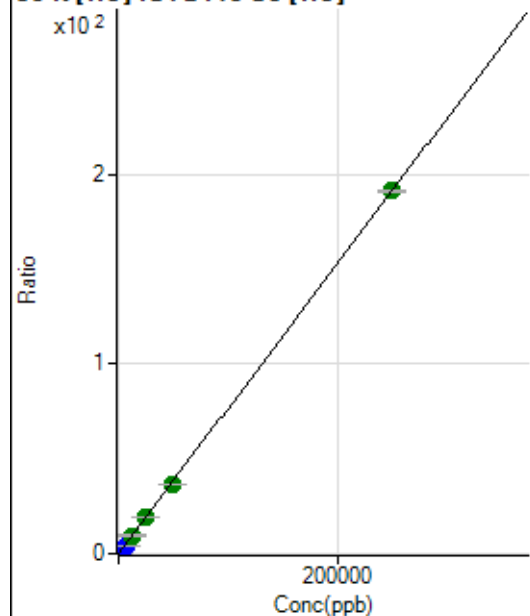
35 Cl [No Gas] No available calibration points



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			87301.98		P	1.0
2	☐			89021.26		P	0.1
3	☐			91722.28		P	0.9
4	☐			93513.74		P	1.0
5	☐			95968.46		P	1.0
6	☐			105718.87		P	1.5
7	☐			125191.17		P	2.2
8	☐			78650.90		P	1.3

35 Cl [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			327.79		P	22.4
2	☐			364.45		P	13.9
3	☐			338.90		P	6.7
4	☐			370.01		P	8.1
5	☐			366.67		P	16.8
6	☐			421.12		P	13.2
7	☐			482.23		P	4.9
8	☐			335.56		P	4.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	6919.49	0.0391	P	4.2
2	☐	500.000	534.806	76122.46	0.4478	P	4.3
3	☐	2500.000	2307.121	326904.42	1.8025	P	1.1
4	☐	6250.000	5895.266	792872.79	4.5452	P	0.7
5	☐	12500.000	12397.007	1641061.38	9.5149	A	3.5
6	☐	25000.000	24691.725	3282843.01	18.9126	A	1.1
7	☐	50000.000	47826.281	6446082.82	36.5959	A	0.9
8	☐	250000.00	250481.44	28844672.07	191.4988	A	0.2

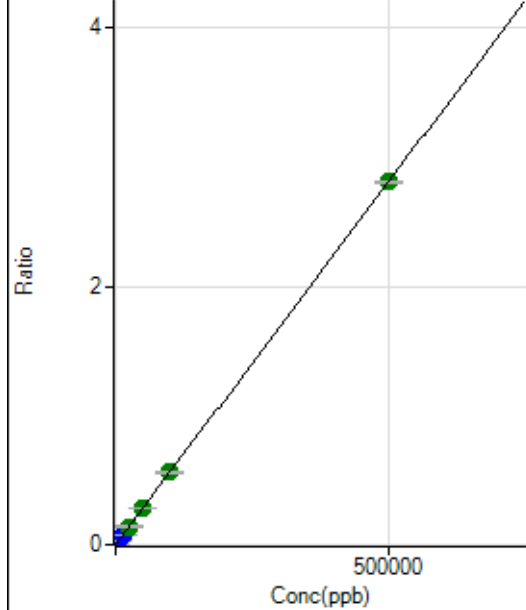
$$y = 7.6437E-004 * x + 0.0391$$

$$R = 1.0000$$

$$DL = 6.473$$

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	652.25	0.0001	P	7.8
2	☐	500.000	502.696	31114.75	0.0029	P	13.0
3	☐	5000.000	5288.731	286052.90	0.0297	P	24.2
4	☐	12500.000	12125.520	685427.60	0.0681	P	1.8
5	☐	25000.000	25120.915	1423546.38	0.1410	A	4.7
6	☐	50000.000	50513.785	2833296.73	0.2835	A	1.8
7	☐	100000.00	99600.911	5583183.74	0.5589	A	0.6
8	☐	500000.00	500028.86	24060389.92	2.8056	A	0.4

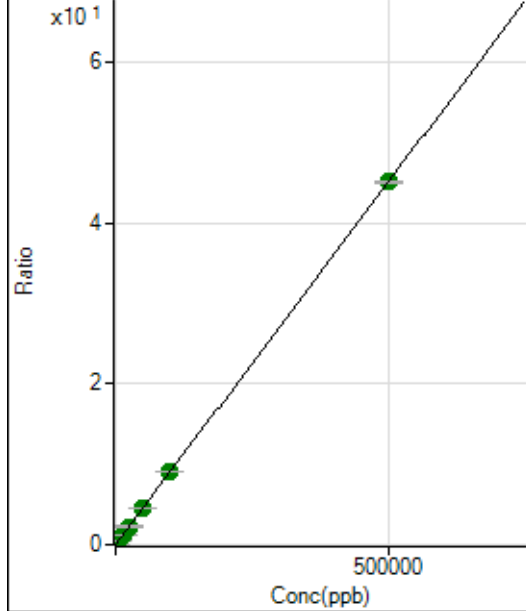
$$y = 5.6108\text{E-}006 * x + 6.3879\text{E-}005$$

$$R = 1.0000$$

$$DL = 2.673$$

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	12528.88	0.0012	P	1.8
2	☐	500.000	502.045	501592.12	0.0465	P	12.7
3	☐	5000.000	5448.895	4738972.12	0.4925	A	24.2
4	☐	12500.000	12640.355	11483804.27	1.1408	A	0.7
5	☐	25000.000	25035.435	22803525.77	2.2583	A	3.9
6	☐	50000.000	50342.892	45373573.21	4.5399	A	2.1
7	☐	100000.00	99859.054	89946286.44	9.0040	A	0.8
8	☐	500000.00	499984.12	386573563.1	45.0774	A	0.5

$$y = 9.0155\text{E-}005 * x + 0.0012$$

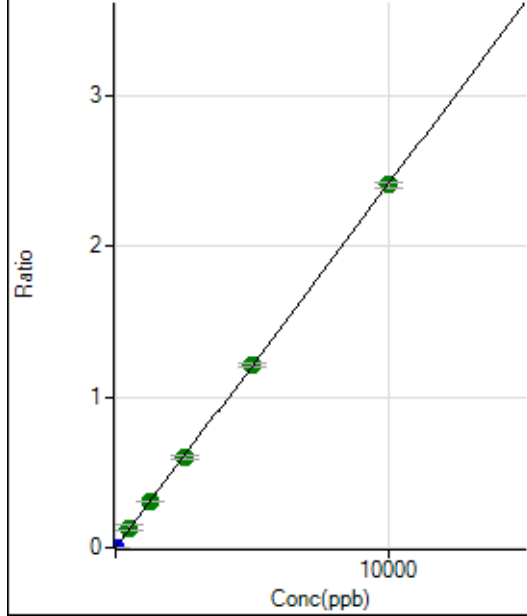
$$R = 1.0000$$

$$DL = 0.7418$$

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	188.89	0.0000	P	20.5
2	☐	5.000	4.971	13142.77	0.0012	P	11.2
3	☐	500.000	550.183	1277167.89	0.1326	A	23.7
4	☐	1250.000	1268.840	3078267.46	0.3058	A	1.9
5	☐	2500.000	2496.906	6076264.91	0.6018	A	4.2
6	☐	5000.000	5044.828	12152218.29	1.2159	A	2.0
7	☐	10000.000	9973.496	24011557.14	2.4038	A	1.3
8	☐			7635.44	0.0009	P	3.4

$$y = 2.4101\text{E-}004 * x + 1.8491\text{E-}005$$

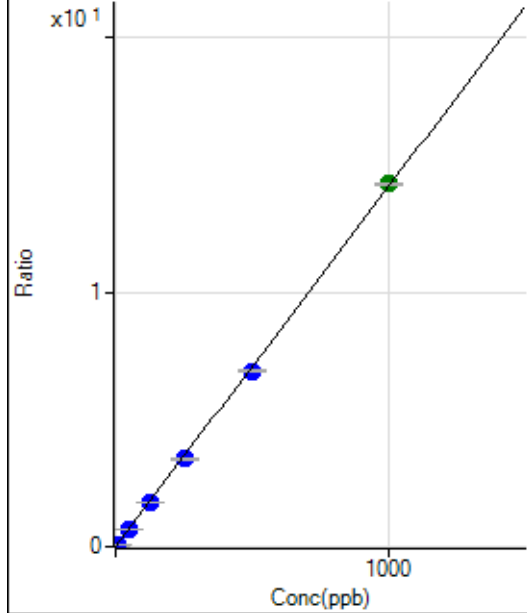
$$R = 1.0000$$

$$DL = 0.04713$$

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	5.56	0.0000	P	34.3
2	☐	5.000	5.483	13200.62	0.0776	P	2.4
3	☐	50.000	47.166	121066.77	0.6675	P	0.8
4	☐	125.000	121.591	300174.24	1.7207	P	0.3
5	☐	250.000	244.622	597090.22	3.4618	P	2.9
6	☐	500.000	488.621	1200275.56	6.9147	P	0.5
7	☐	1000.000	1007.600	2511623.45	14.2591	A	0.7
8	☐			377.79	0.0025	P	6.2

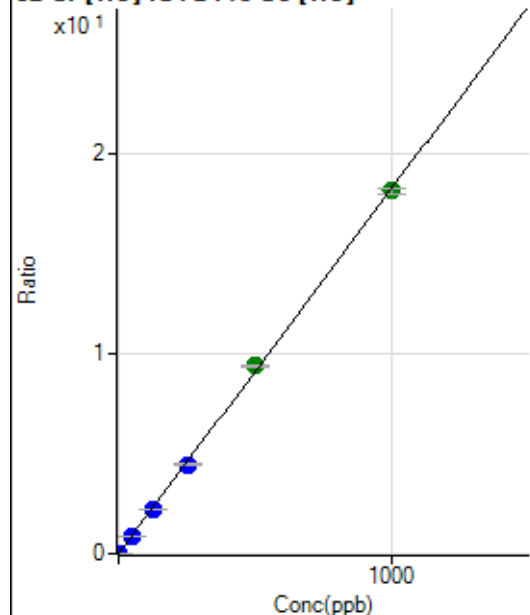
$$y = 0.0142 * x + 3.1318\text{E-}005$$

$$R = 0.9999$$

$$DL = 0.002274$$

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	498.90	0.0028	P	7.0
2	☐	2.000	2.241	7423.10	0.0437	P	5.9
3	☐	50.000	47.857	158808.33	0.8757	P	1.3
4	☐	125.000	122.491	390228.31	2.2370	P	0.3
5	☐	250.000	244.663	770167.09	4.4653	P	3.0
6	☐	500.000	515.127	1631345.57	9.3984	A	1.2
7	☐	1000.000	994.191	3194471.79	18.1362	A	1.5
8	☐			7192.85	0.0477	P	3.6

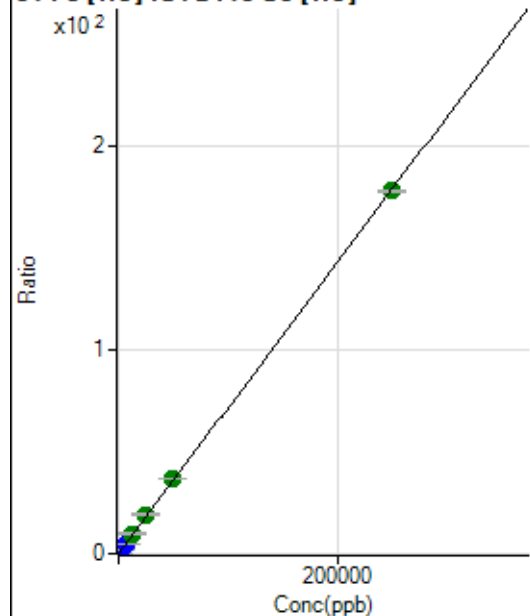
$$y = 0.0182 * x + 0.0028$$

$$R = 0.9998$$

$$DL = 0.03221$$

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	854.48	0.0048	P	9.5
2	☐	50.000	56.991	7733.27	0.0455	P	7.2
3	☐	2500.000	2519.275	327181.78	1.8042	P	1.5
4	☐	6250.000	6436.295	802794.28	4.6020	P	0.0
5	☐	12500.000	13713.646	1689814.80	9.7998	A	4.8
6	☐	25000.000	27015.281	3350085.64	19.3006	A	1.8
7	☐	50000.000	51526.392	6483355.74	36.8077	A	0.8
8	☐	250000.00	249427.66	26834841.27	178.1595	A	0.6

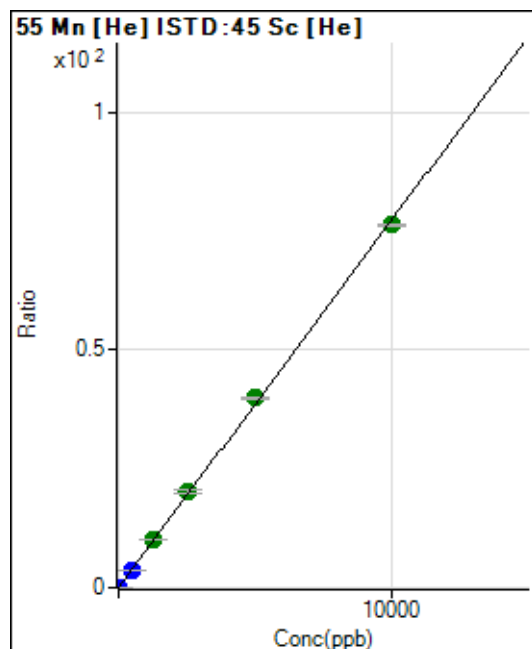
$$y = 7.1425E-004 * x + 0.0048$$

$$R = 0.9999$$

$$DL = 1.921$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	120.00	0.0007	P	20.7
2	☐	1.000	1.108	1571.21	0.0092	P	3.8
3	☐	500.000	483.084	677215.15	3.7340	P	0.8
4	☐	1250.000	1317.109	1775779.26	10.1795	A	0.4
5	☐	2500.000	2621.468	3494258.91	20.2598	A	3.3
6	☐	5000.000	5165.927	6929872.95	39.9237	A	1.2
7	☐	10000.000	9879.127	13447998.41	76.3480	A	0.9
8	☐			3887.23	0.0258	P	4.4

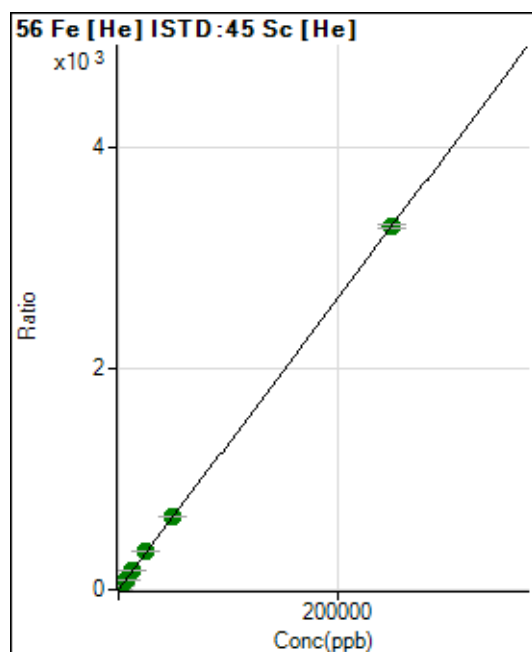
$$y = 0.0077 * x + 6.7694E-004$$

$$R = 0.9997$$

$$DL = 0.05431$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	22538.22	0.1276	P	66.0
2	☐	50.000	51.105	136016.01	0.8000	P	3.3
3	☐	2500.000	2571.809	6160739.35	33.9691	A	0.9
4	☐	6250.000	6635.419	15253173.94	87.4409	A	1.0
5	☐	12500.000	13327.568	30273795.94	175.5006	A	2.2
6	☐	25000.000	26225.504	59923756.33	345.2203	A	0.8
7	☐	50000.000	50114.060	116177056.0	659.5620	A	0.4
8	☐	250000.00	249802.90	495137863.7	3,287.201	A	0.9

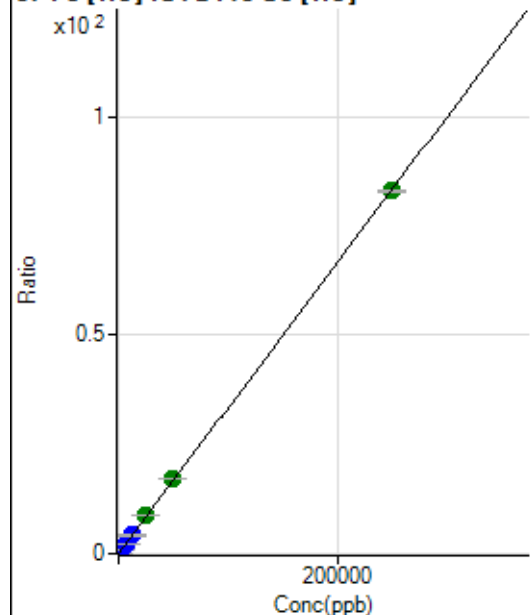
$$y = 0.0132 * x + 0.1276$$

$$R = 1.0000$$

$$DL = 19.2$$

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	377.79	0.0021	P	6.7
2	☐	50.000	55.790	3516.03	0.0207	P	3.6
3	☐	2500.000	2449.067	148006.07	0.8161	P	1.0
4	☐	6250.000	6323.212	366971.18	2.1037	P	0.7
5	☐	12500.000	12646.148	725337.44	4.2052	P	2.7
6	☐	25000.000	26398.224	1523369.16	8.7757	A	2.3
7	☐	50000.000	51293.001	3003180.93	17.0497	A	0.3
8	☐	250000.00	249592.94	12495101.62	82.9559	A	0.8

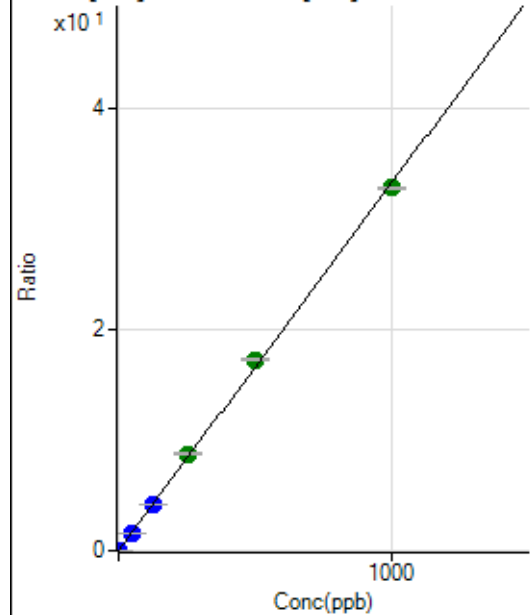
$$y = 3.3236\text{E-}004 * x + 0.0021$$

$$R = 1.0000$$

$$DL = 1.29$$

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	67.78	0.0004	P	23.3
2	☐	1.000	1.159	6620.48	0.0390	P	6.6
3	☐	50.000	49.147	296804.81	1.6368	P	1.6
4	☐	125.000	125.160	727016.73	4.1676	P	0.5
5	☐	250.000	262.756	1509202.30	8.7490	A	2.5
6	☐	500.000	519.431	3002196.07	17.2951	A	0.5
7	☐	1000.000	987.118	5789229.43	32.8671	A	0.8
8	☐			10006.92	0.0664	P	2.0

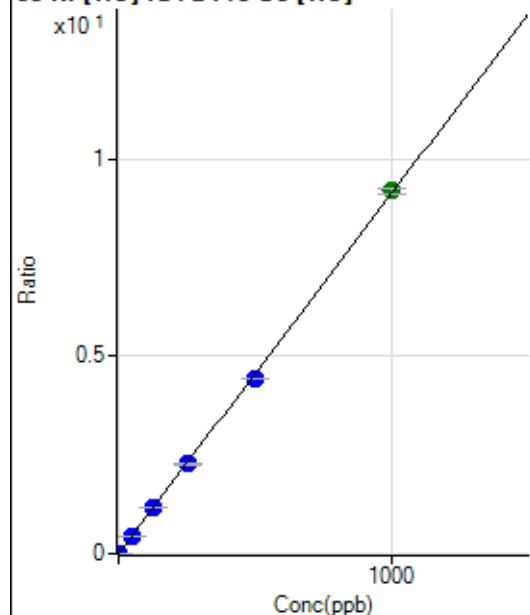
$$y = 0.0333 * x + 3.8295\text{E-}004$$

$$R = 0.9996$$

$$DL = 0.008028$$

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	1154.51	0.0065	P	4.0
2	☐	1.000	1.143	2879.21	0.0169	P	5.3
3	☐	50.000	49.385	82814.67	0.4566	P	1.1
4	☐	125.000	125.678	200962.91	1.1520	P	1.1
5	☐	250.000	249.337	393120.06	2.2792	P	2.8
6	☐	500.000	484.700	768009.58	4.4244	P	0.6
7	☐	1000.000	1007.762	1619119.42	9.1920	A	1.3
8	☐			6365.92	0.0423	P	2.3

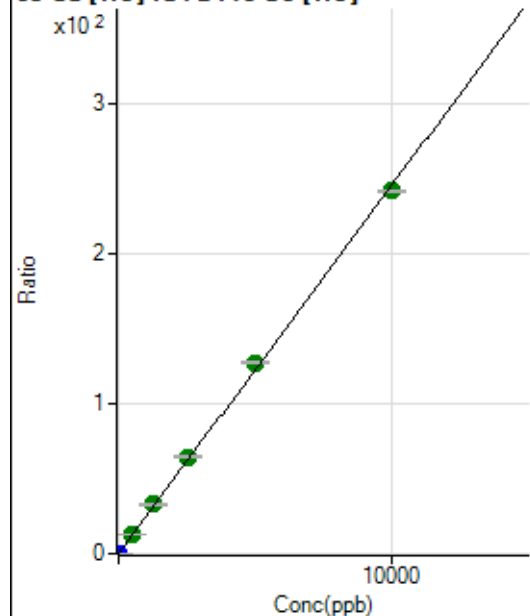
$$y = 0.0091 * x + 0.0065$$

$$R = 0.9998$$

$$DL = 0.08551$$

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	3448.23	0.0195	P	2.4
2	☐	2.000	2.388	13282.96	0.0781	P	2.8
3	☐	500.000	527.339	2352663.98	12.9707	A	0.3
4	☐	1250.000	1333.199	5715219.36	32.7622	A	0.6
5	☐	2500.000	2638.077	11179240.11	64.8094	A	2.5
6	☐	5000.000	5186.805	22114631.34	127.4049	A	1.4
7	☐	10000.000	9860.311	42659109.37	242.1839	A	0.3
8	☐			9635.56	0.0640	P	3.8

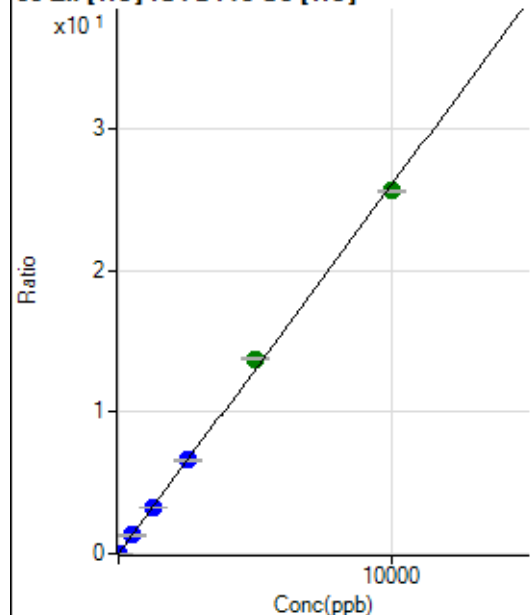
$$y = 0.0246 * x + 0.0195$$

$$R = 0.9996$$

$$DL = 0.05682$$

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	260.00	0.0015	P	15.5
2	☐	5.000	6.224	3003.68	0.0177	P	6.1
3	☐	500.000	498.627	235781.76	1.3002	P	1.6
4	☐	1250.000	1272.855	578586.56	3.3168	P	0.5
5	☐	2500.000	2534.122	1138714.69	6.6019	P	2.8
6	☐	5000.000	5291.577	2392598.90	13.7840	A	1.6
7	☐	10000.000	9842.892	4516084.52	25.6384	A	0.7
8	☐			5475.55	0.0364	P	2.7

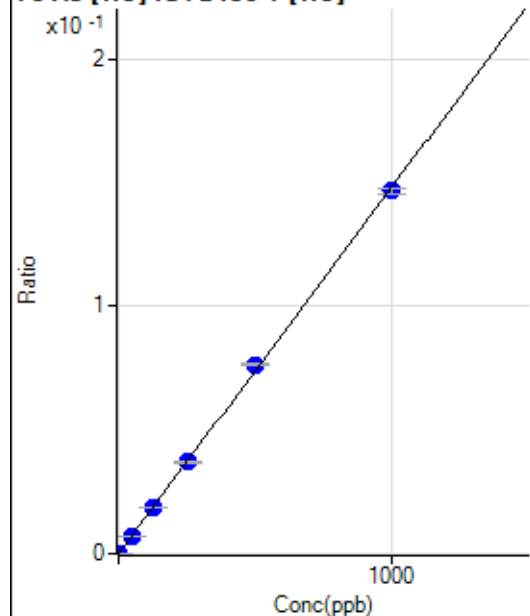
$$y = 0.0026 * x + 0.0015$$

$$R = 0.9994$$

$$DL = 0.2623$$

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	1.11	0.0000	P	173.
2	☐	1.000	1.227	312.23	0.0002	P	10.4
3	☐	50.000	49.112	13248.54	0.0073	P	1.5
4	☐	125.000	125.594	33212.39	0.0186	P	0.5
5	☐	250.000	251.372	66011.42	0.0372	P	2.4
6	☐	500.000	516.525	133756.51	0.0765	P	1.5
7	☐	1000.000	991.364	261291.48	0.1468	P	1.6
8	☐			97.78	0.0001	P	3.2

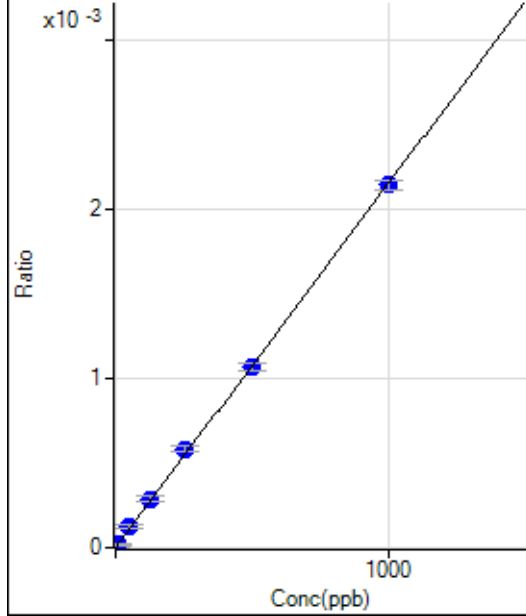
$$y = 1.4804E-004 * x + 6.1724E-007$$

$$R = 0.9998$$

$$DL = 0.02167$$

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	1.11	0.0000	P	173.
2	☐	5.000	8.475	32.22	0.0000	P	46.3
3	☐	50.000	59.264	234.45	0.0001	P	17.9
4	☐	125.000	132.607	511.13	0.0003	P	10.7
5	☐	250.000	271.096	1036.71	0.0006	P	4.4
6	☐	500.000	494.887	1865.70	0.0011	P	3.9
7	☐	1000.000	995.851	3820.55	0.0021	P	2.6
8	☐			2.22	0.0000	P	173.

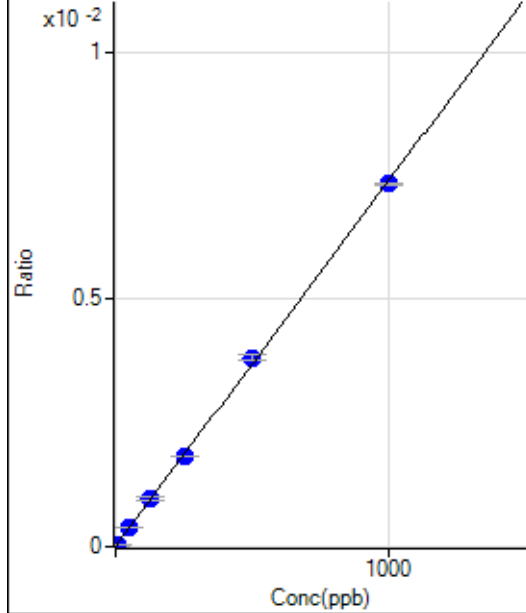
$$y = 2.1542\text{E-}006 * x + 6.1943\text{E-}007$$

$$R = 0.9997$$

$$DL = 1.494$$

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	6.67	0.0000	P	86.6
2	☐	5.000	6.704	91.11	0.0001	P	9.7
3	☐	50.000	52.870	718.91	0.0004	P	3.7
4	☐	125.000	130.237	1726.79	0.0010	P	6.7
5	☐	250.000	246.250	3237.07	0.0018	P	1.7
6	☐	500.000	516.176	6679.43	0.0038	P	2.7
7	☐	1000.000	992.043	13061.72	0.0073	P	0.9
8	☐			7.78	0.0000	P	22.8

$$y = 7.3910\text{E-}006 * x + 3.7151\text{E-}006$$

$$R = 0.9998$$

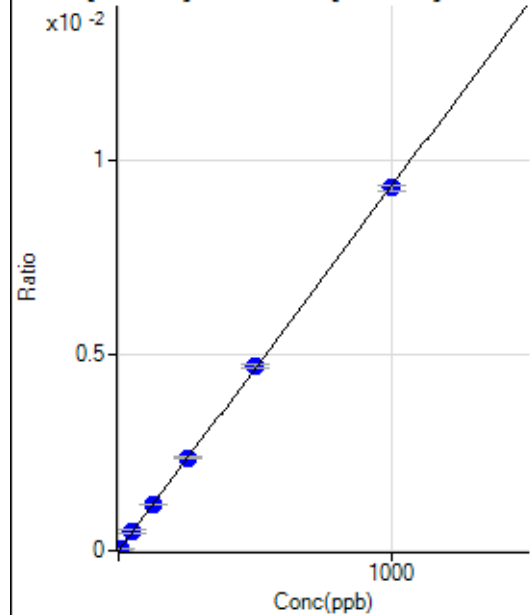
$$DL = 1.306$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			6494.90		P	0.3
2	☐			6387.07		P	1.5
3	☐			6664.97		P	1.9
4	☐			6581.59		P	4.2
5	☐			6723.90		P	2.7
6	☐			7118.55		P	2.4
7	☐			7374.22		P	2.1
8	☐			7478.73		P	4.3

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	45.56	0.0000	P	74.3
2	☐	5.000	4.985	1293.42	0.0000	P	11.7
3	☐	50.000	54.276	12415.75	0.0005	P	19.7
4	☐	125.000	127.475	30465.71	0.0012	P	2.4
5	☐	250.000	253.777	60483.73	0.0024	P	2.0
6	☐	500.000	506.780	120100.61	0.0047	P	1.3
7	☐	1000.000	995.143	235530.80	0.0093	P	1.8
8	☐			52.22	0.0000	P	24.3

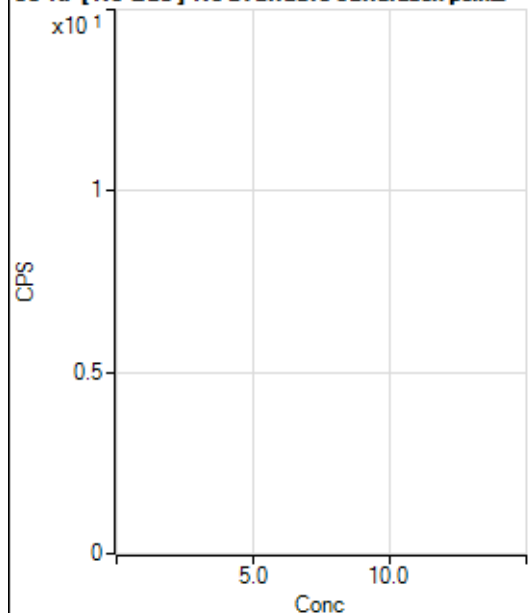
$$y = 9.3292E-006 * x + 1.7752E-006$$

$$R = 1.0000$$

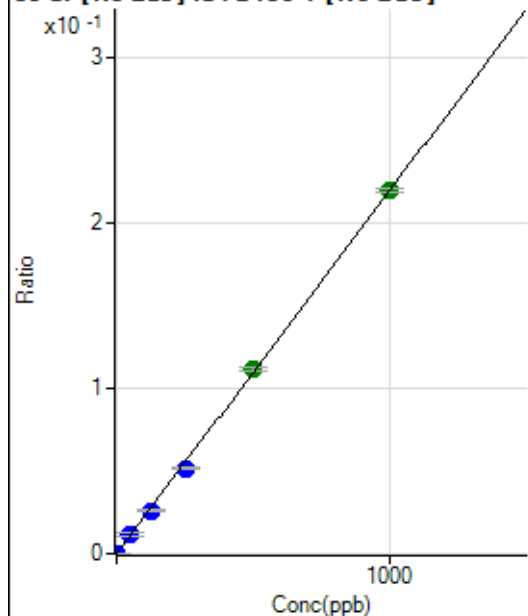
$$DL = 0.4241$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			148.89		P	6.8
2	☐			182.23		P	12.2
3	☐			172.22		P	23.1
4	☐			173.34		P	5.1
5	☐			176.67		P	19.9
6	☐			211.11		P	19.0
7	☐			222.23		P	3.5
8	☐			334.45		P	11.0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	307.78	0.0000	P	9.0
2	☐	1.000	0.942	5845.72	0.0002	P	12.6
3	☐	50.000	51.572	274767.13	0.0113	P	23.1
4	☐	125.000	118.200	662329.24	0.0259	P	2.1
5	☐	250.000	235.121	1314532.86	0.0515	P	1.6
6	☐	500.000	508.996	2830318.92	0.1115	A	1.4
7	☐	1000.000	999.993	5554309.64	0.2190	A	1.0
8	☐			12959.46	0.0006	P	2.0

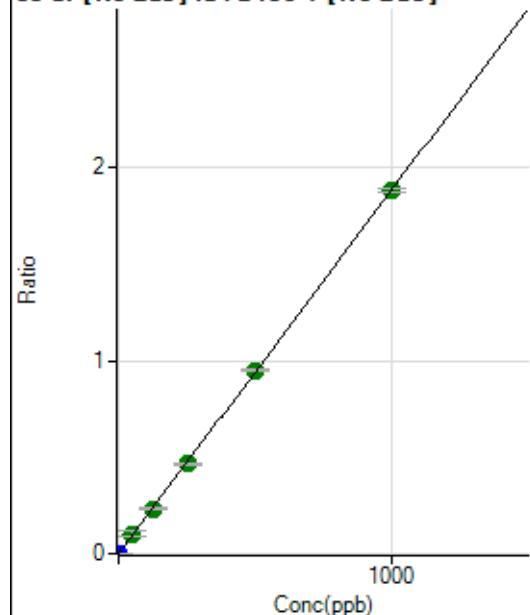
$$y = 2.1895E-004 * x + 1.2028E-005$$

$$R = 0.9998$$

$$DL = 0.01477$$

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	391.12	0.0000	P	5.4
2	☐	1.000	0.936	47600.94	0.0018	P	12.6
3	☐	50.000	54.699	2501182.03	0.1030	A	23.7
4	☐	125.000	123.294	5937817.34	0.2321	A	3.0
5	☐	250.000	247.589	11897762.46	0.4661	A	2.4
6	☐	500.000	504.638	24124382.69	0.9500	A	1.6
7	☐	1000.000	998.262	47668973.73	1.8792	A	1.0
8	☐			110417.44	0.0050	P	1.1

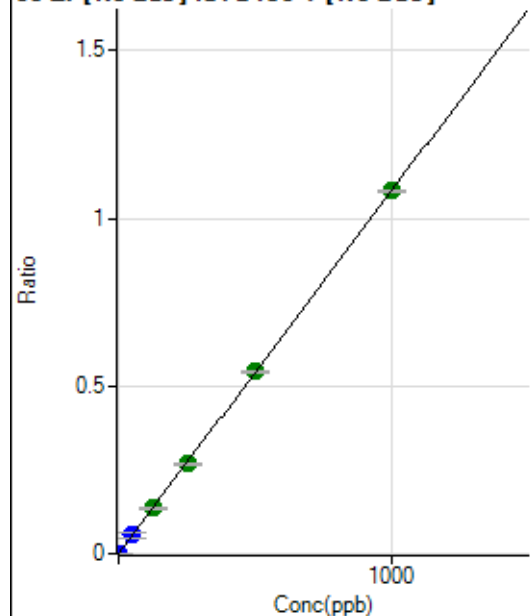
$$y = 0.0019 * x + 1.5280E-005$$

$$R = 1.0000$$

$$DL = 0.001326$$

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	853.37	0.0000	P	6.3
2	☐	1.000	0.969	28966.82	0.0011	P	11.0
3	☐	50.000	50.574	1328524.54	0.0547	P	24.1
4	☐	125.000	124.759	3452648.35	0.1350	A	1.6
5	☐	250.000	247.006	6819937.88	0.2672	A	2.6
6	☐	500.000	501.642	13778050.35	0.5426	A	1.5
7	☐	1000.000	999.929	27433664.04	1.0815	A	0.7
8	☐			13563.39	0.0006	P	4.4

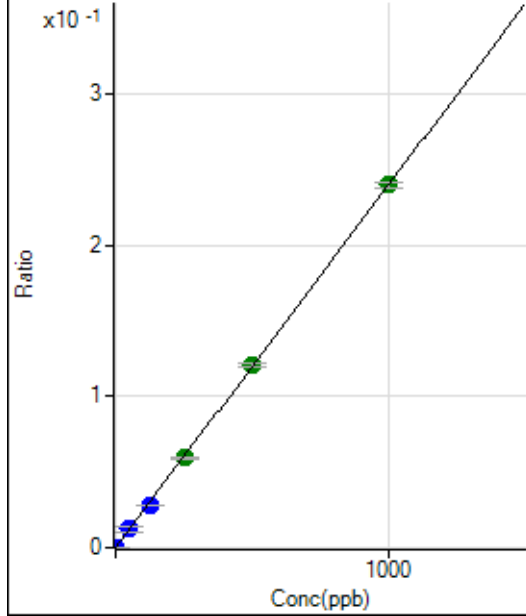
$$y = 0.0011 * x + 3.3329E-005$$

$$R = 1.0000$$

$$DL = 0.005796$$

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	165.56	0.0000	P	9.4
2	☐	1.000	0.963	6349.28	0.0002	P	12.3
3	☐	50.000	50.771	295444.34	0.0122	P	24.0
4	☐	125.000	116.903	716671.05	0.0280	P	2.5
5	☐	250.000	247.741	1515406.09	0.0594	A	2.3
6	☐	500.000	502.448	3057214.64	0.1204	A	1.8
7	☐	1000.000	1000.314	6079831.16	0.2397	A	1.4
8	☐			3042.59	0.0001	P	6.0

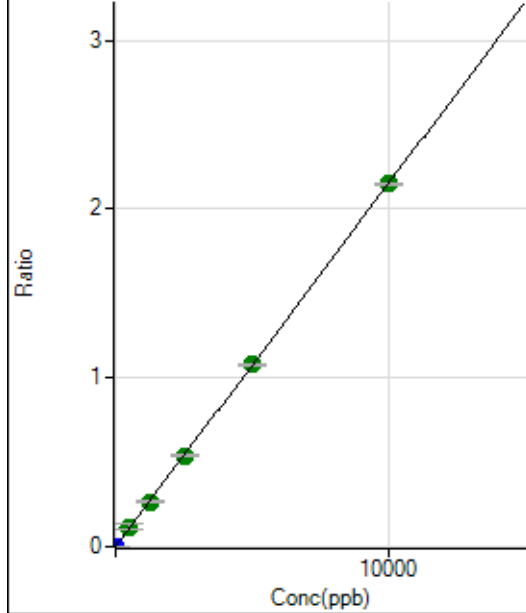
$$y = 2.3960\text{E-}004 * x + 6.4703\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.00762$$

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	370.01	0.0000	P	6.0
2	☐	5.000	5.780	33725.27	0.0013	P	10.8
3	☐	500.000	549.166	2872345.76	0.1182	A	23.2
4	☐	1250.000	1242.683	6840431.01	0.2674	A	3.1
5	☐	2500.000	2493.022	13695802.85	0.5365	A	2.1
6	☐	5000.000	5021.863	27443830.98	1.0807	A	0.9
7	☐	10000.000	9989.269	54530670.30	2.1497	A	0.5
8	☐			11696.18	0.0005	P	10.5

$$y = 2.1520\text{E-}004 * x + 1.4443\text{E-}005$$

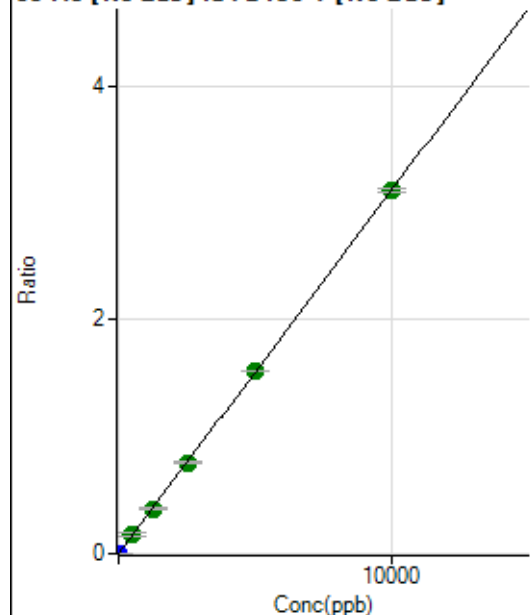
$$R = 1.0000$$

$$DL = 0.01211$$

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	150.00	0.0000	P	3.3
2	☐	5.000	4.849	40481.01	0.0015	P	11.5
3	☐	500.000	541.575	4087455.42	0.1681	A	23.1
4	☐	1250.000	1242.700	9869320.06	0.3858	A	2.1
5	☐	2500.000	2494.023	19766705.68	0.7743	A	1.7
6	☐	5000.000	5032.278	39672522.19	1.5623	A	0.6
7	☐	10000.000	9984.189	78624273.27	3.0996	A	1.2
8	☐			10526.35	0.0005	P	12.8

$$y = 3.1045\text{E-}004 * x + 5.8593\text{E-}006$$

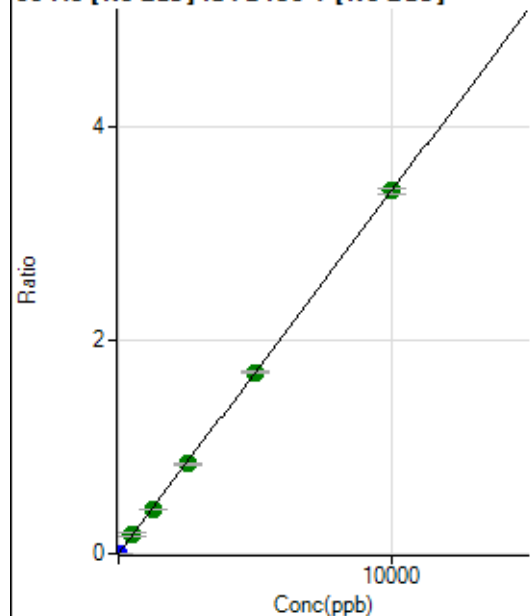
$$R = 1.0000$$

$$DL = 0.001887$$

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	188.89	0.0000	P	8.2
2	☐	5.000	4.889	44656.04	0.0017	P	11.9
3	☐	500.000	542.586	4473009.20	0.1842	A	24.0
4	☐	1250.000	1235.031	10728846.23	0.4194	A	1.2
5	☐	2500.000	2478.726	21484417.46	0.8417	A	2.6
6	☐	5000.000	5006.364	43168927.13	1.7000	A	0.6
7	☐	10000.000	10001.878	86149439.83	3.3962	A	1.7
8	☐			15038.31	0.0007	P	10.4

$$y = 3.3956\text{E-}004 * x + 7.3783\text{E-}006$$

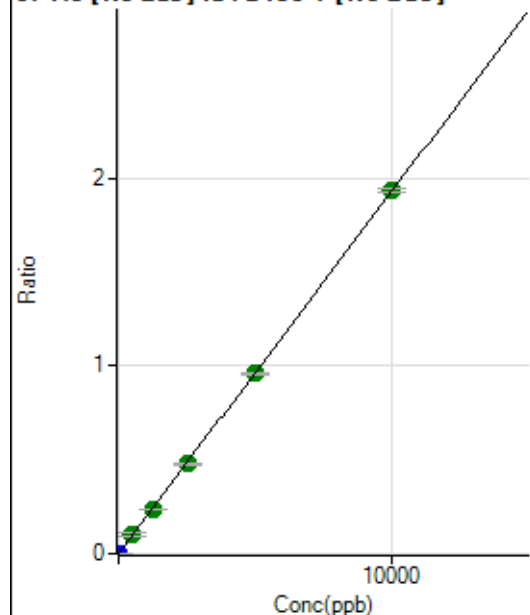
$$R = 1.0000$$

$$DL = 0.005376$$

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	80.00	0.0000	P	21.7
2	☐	5.000	4.932	25572.54	0.0010	P	11.8
3	☐	500.000	540.371	2534903.71	0.1043	A	23.1
4	☐	1250.000	1232.848	6085729.98	0.2379	A	2.2
5	☐	2500.000	2471.036	12172380.79	0.4768	A	2.1
6	☐	5000.000	4968.288	24345899.36	0.9587	A	0.2
7	☐	10000.000	10023.222	49064591.49	1.9342	A	1.0
8	☐			5007.64	0.0002	P	18.6

$$y = 1.9297\text{E-}004 * x + 3.1233\text{E-}006$$

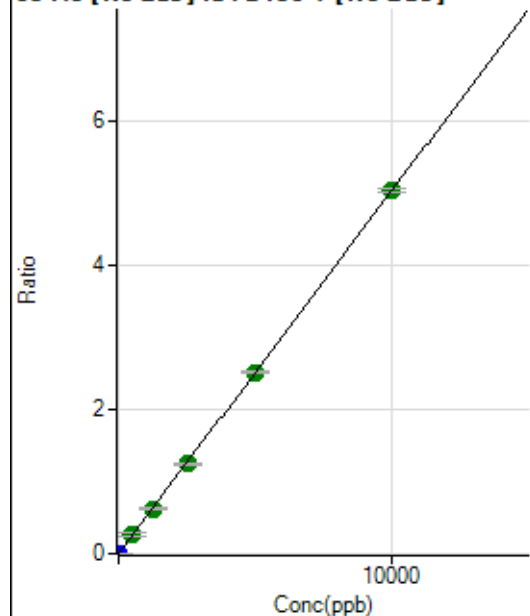
$$R = 1.0000$$

$$DL = 0.01055$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	224.45	0.0000	P	27.9
2	☐	5.000	4.828	65226.83	0.0024	P	11.7
3	☐	500.000	535.465	6547775.04	0.2691	A	22.6
4	☐	1250.000	1237.321	15908669.35	0.6219	A	2.5
5	☐	2500.000	2486.031	31897927.86	1.2495	A	2.1
6	☐	5000.000	4995.571	63761652.94	2.5109	A	0.9
7	☐	10000.000	10005.518	127565231.4	5.0290	A	1.0
8	☐			12679.42	0.0006	P	21.1

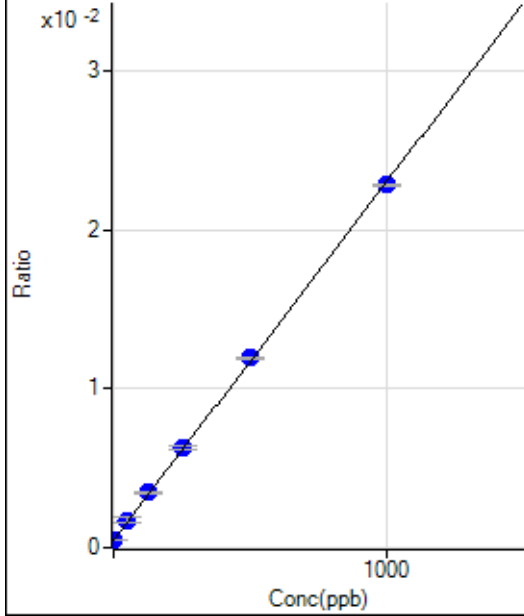
$$y = 5.0262\text{E-}004 * x + 8.7854\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01464$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	8450.45	0.0005	P	2.1
2	☐	1.000	1.001	9393.32	0.0005	P	1.0
3	☐	50.000	56.819	31144.13	0.0017	P	17.1
4	☐	125.000	132.809	64058.73	0.0035	P	1.6
5	☐	250.000	256.695	117276.19	0.0063	P	3.6
6	☐	500.000	509.462	224496.80	0.0120	P	1.0
7	☐	1000.000	992.278	430122.25	0.0229	P	0.7
8	☐			7213.06	0.0004	P	3.7

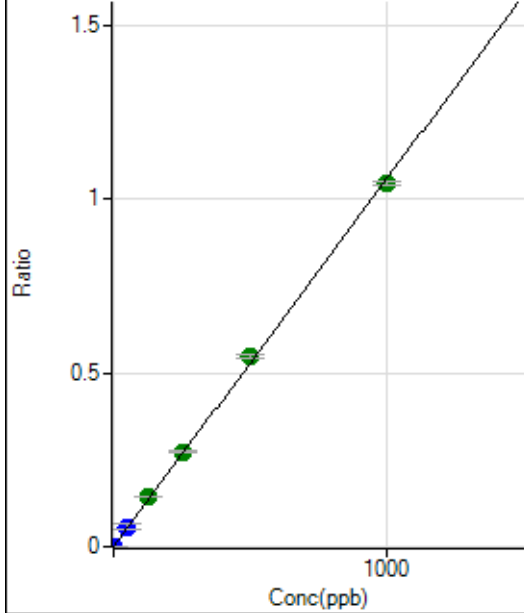
$$y = 2.2581E-005 * x + 4.5522E-004$$

$$R = 0.9999$$

$$DL = 1.264$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	197.78	0.0000	P	12.0
2	☐	1.000	0.998	20782.39	0.0011	P	11.5
3	☐	50.000	54.857	1028057.04	0.0580	P	24.2
4	☐	125.000	135.185	2650706.42	0.1429	A	1.0
5	☐	250.000	258.902	5134967.66	0.2737	A	3.8
6	☐	500.000	517.780	10275473.46	0.5474	A	2.0
7	☐	1000.000	987.369	19638590.54	1.0438	A	1.1
8	☐			2375.79	0.0001	P	15.9

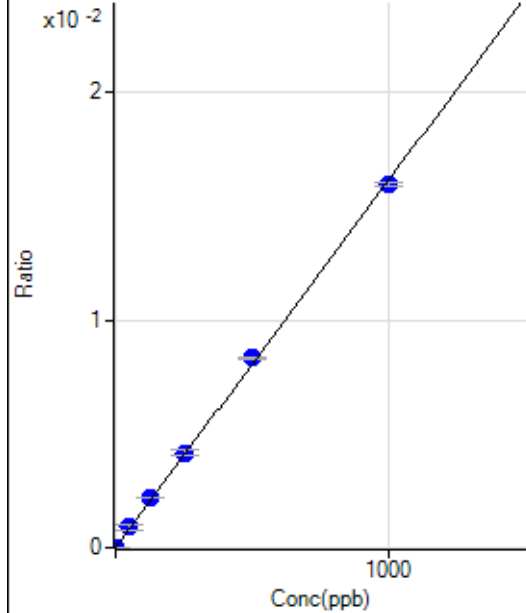
$$y = 0.0011 * x + 1.0655E-005$$

$$R = 0.9997$$

$$DL = 0.00362$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	25.56	0.0000	P	19.9
2	☐	1.000	1.051	360.01	0.0000	P	3.2
3	☐	50.000	56.960	16267.49	0.0009	P	25.8
4	☐	125.000	134.301	40176.17	0.0022	P	1.2
5	☐	250.000	258.440	78154.29	0.0042	P	4.8
6	☐	500.000	516.560	156333.85	0.0083	P	1.1
7	☐	1000.000	988.099	299694.52	0.0159	P	1.1
8	☐			158.89	0.0000	P	13.5

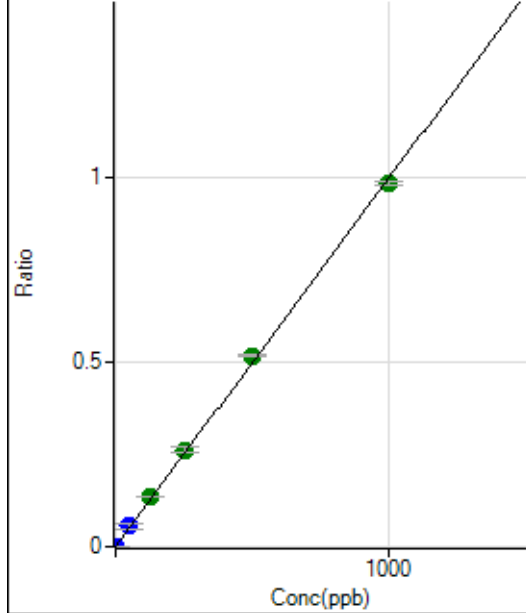
$$y = 1.6120\text{E-}005 * x + 1.3768\text{E-}006$$

$$R = 0.9997$$

$$DL = 0.05108$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	73.33	0.0000	P	29.9
2	☐	1.000	0.989	19242.42	0.0010	P	13.2
3	☐	50.000	55.571	979992.87	0.0553	P	24.3
4	☐	125.000	136.178	2512876.39	0.1355	A	0.8
5	☐	250.000	263.286	4912844.65	0.2620	A	4.6
6	☐	500.000	518.343	9681019.72	0.5157	A	1.4
7	☐	1000.000	985.831	18453884.03	0.9809	A	1.2
8	☐			2240.21	0.0001	P	21.2

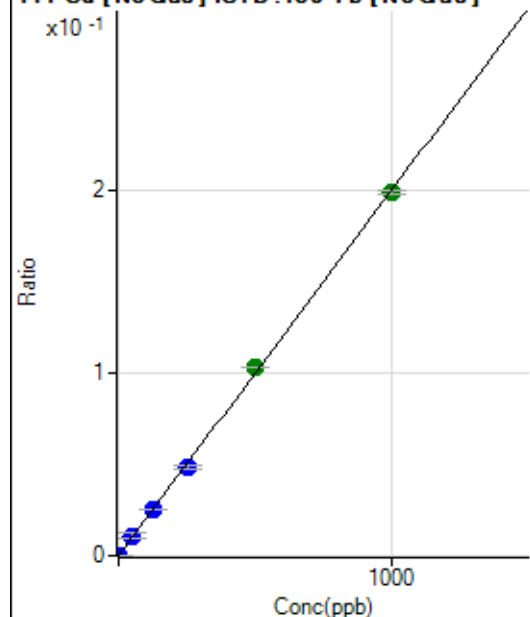
$$y = 9.9494\text{E-}004 * x + 3.9517\text{E-}006$$

$$R = 0.9996$$

$$DL = 0.003569$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1694.42	0.0001	P	1.7
2	☐	1.000	1.055	5912.93	0.0003	P	7.5
3	☐	50.000	54.265	194068.38	0.0109	P	23.4
4	☐	125.000	125.137	465535.10	0.0251	P	2.2
5	☐	250.000	243.081	913220.63	0.0487	P	3.4
6	☐	500.000	516.229	1938599.11	0.1033	A	0.7
7	☐	1000.000	993.385	3737296.67	0.1986	A	1.1
8	☐			2178.09	0.0001	P	2.1

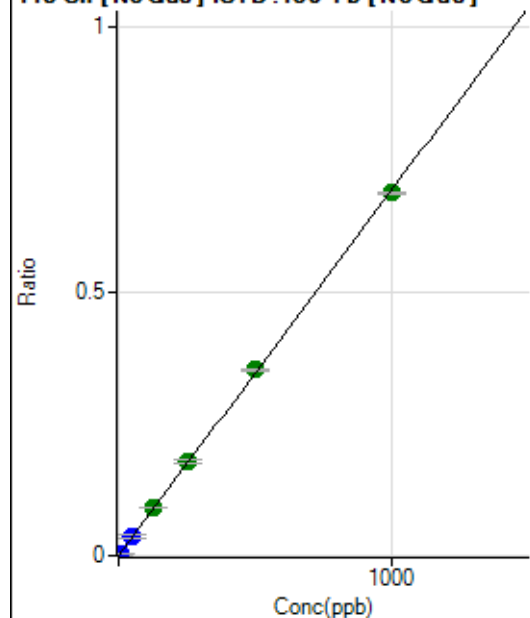
$$y = 1.9988\text{E-}004 * x + 9.1279\text{E-}005$$

$$R = 0.9998$$

$$DL = 0.02298$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1621.65	0.0001	P	23.7
2	☐	5.000	4.999	69142.12	0.0035	P	12.0
3	☐	50.000	53.480	657080.60	0.0371	P	24.5
4	☐	125.000	130.456	1675489.30	0.0903	A	1.2
5	☐	250.000	257.292	3340871.69	0.1781	A	3.7
6	☐	500.000	508.626	6607223.16	0.3520	A	0.5
7	☐	1000.000	993.008	12927309.81	0.6871	A	0.3
8	☐			3309.33	0.0002	P	11.7

$$y = 6.9186\text{E-}004 * x + 8.7363\text{E-}005$$

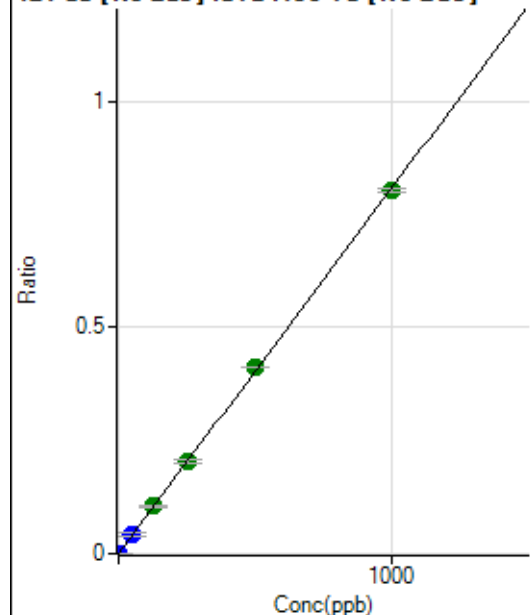
$$R = 0.9999$$

$$DL = 0.08963$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	17.8
2	☐	2.000	1.972	31147.70	0.0016	P	10.8
3	☐	50.000	52.670	754826.06	0.0425	P	23.5
4	☐	125.000	129.574	1940782.70	0.1047	A	3.2
5	☐	250.000	253.909	3845968.90	0.2051	A	4.7
6	☐	500.000	509.992	7732098.84	0.4119	A	0.2
7	☐	1000.000	993.322	15094131.58	0.8023	A	1.2
8	☐			8715.10	0.0005	P	5.2

$$y = 8.0767E-004 * x + 3.5315E-006$$

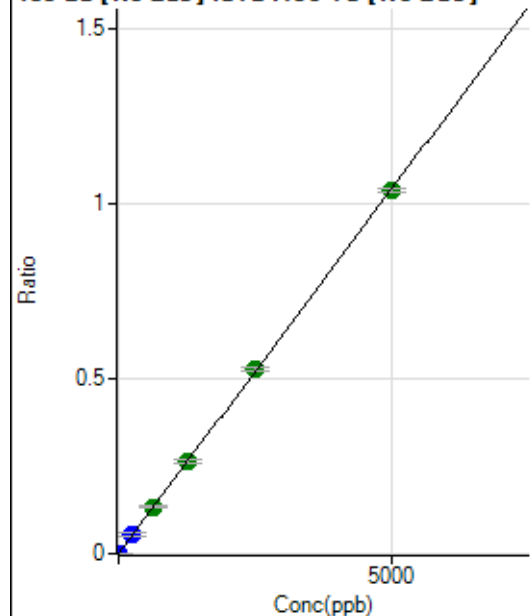
$$R = 0.9999$$

$$DL = 0.002341$$

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	303.34	0.0000	P	14.3
2	☐	10.000	10.010	40939.45	0.0021	P	12.1
3	☐	250.000	261.176	963069.36	0.0544	P	24.7
4	☐	625.000	646.050	2493844.82	0.1345	A	2.7
5	☐	1250.000	1264.813	4936759.41	0.2633	A	5.1
6	☐	2500.000	2533.089	9896985.06	0.5272	A	1.8
7	☐	5000.000	4976.562	19487599.71	1.0358	A	0.9
8	☐			6980.76	0.0004	P	8.4

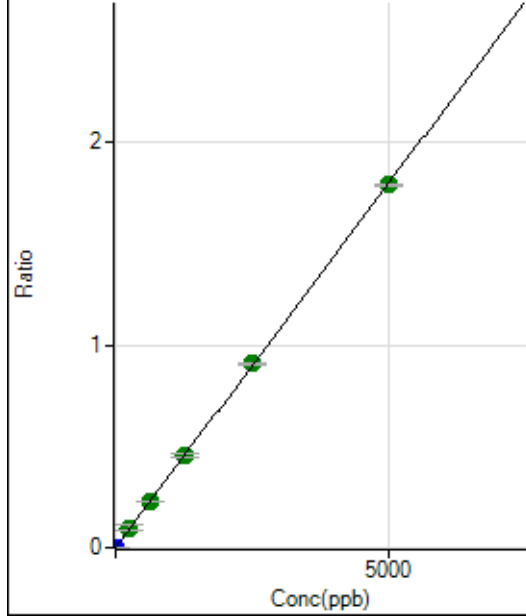
$$y = 2.0813E-004 * x + 1.6339E-005$$

$$R = 1.0000$$

$$DL = 0.03365$$

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	477.79	0.0000	P	7.2
2	☐	10.000	9.870	69751.65	0.0036	P	11.1
3	☐	250.000	275.897	1758655.36	0.0992	A	24.3
4	☐	625.000	636.748	4246780.21	0.2290	A	1.7
5	☐	1250.000	1258.340	8487615.85	0.4525	A	4.2
6	☐	2500.000	2527.743	17062861.00	0.9090	A	1.0
7	☐	5000.000	4981.281	33700608.39	1.7913	A	0.8
8	☐			12557.06	0.0008	P	7.8

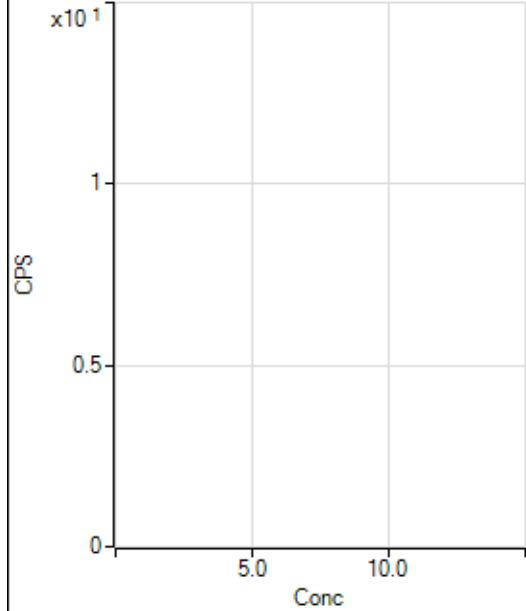
$$y = 3.5960E-004 * x + 2.5740E-005$$

$$R = 1.0000$$

$$DL = 0.0155$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	21.7
2	☐			25.55		P	52.7
3	☐			87.78		P	8.8
4	☐			216.67		P	17.7
5	☐			472.23		P	12.6
6	☐			820.04		P	9.1
7	☐			1569.00		P	6.3
8	☐			341.12		P	5.6

150 Nd [He] No available calibration points

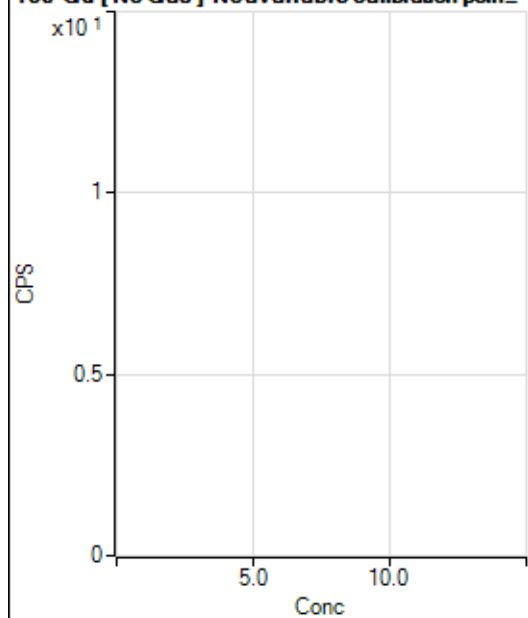
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			5.55		P	69.3
2	☐			1.11		P	173.
3	☐			0.00		P	
4	☐			4.45		P	86.6
5	☐			16.67		P	52.9
6	☐			36.67		P	NaN
7	☐			60.00		P	11.1
8	☐			60.00		P	29.4

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			54.45		P	46.8
2	☐			51.11		P	15.1
3	☐			77.78		P	13.1
4	☐			94.45		P	11.3
5	☐			135.56		P	15.0
6	☐			215.56		P	11.4
7	☐			382.23		P	15.4
8	☐			550.02		P	6.7

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			3.33		P	100.
3	☐			5.55		P	69.3
4	☐			3.33		P	173.
5	☐			15.56		P	75.3
6	☐			26.67		P	33.1
7	☐			53.34		P	28.6
8	☐			177.78		P	8.7

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	3.7
2	☐			94.45		P	4.1
3	☐			87.78		P	5.8
4	☐			85.56		P	29.2
5	☐			121.11		P	15.2
6	☐			125.56		P	10.1
7	☐			248.89		P	7.4
8	☐			531.13		P	5.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			17.78		P	39.0
2	☐			10.00		P	66.7
3	☐			17.78		P	47.2
4	☐			27.78		P	48.5
5	☐			32.22		P	26.0
6	☐			53.33		P	16.5
7	☐			50.00		P	43.7
8	☐			188.89		P	22.5

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	20.6
2	☐			103.33		P	9.7
3	☐			97.78		P	11.0
4	☐			111.12		P	6.2
5	☐			146.67		P	12.7
6	☐			181.11		P	10.5
7	☐			305.56		P	20.9
8	☐			587.80		P	10.4

164 Er [He] No available calibration points

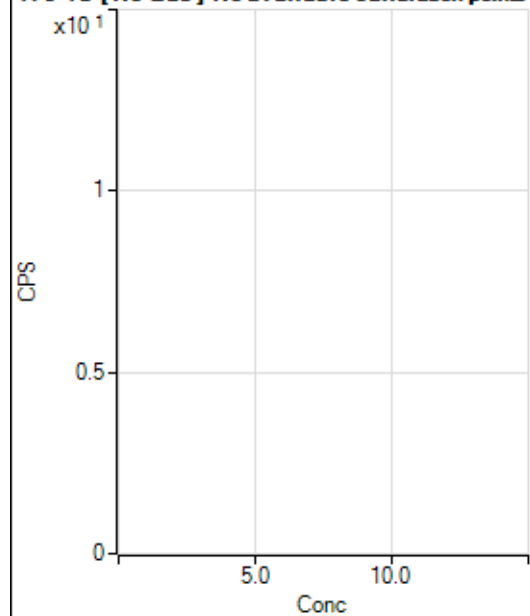
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			18.89		P	20.4
2	☐			22.22		P	43.3
3	☐			37.78		P	5.1
4	☐			41.11		P	24.8
5	☐			32.22		P	12.0
6	☐			53.33		P	22.5
7	☐			66.67		P	13.2
8	☐			198.89		P	13.4

172 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			90.00		P	19.6
2	☐			113.34		P	10.2
3	☐			110.00		P	21.0
4	☐			113.33		P	24.1
5	☐			156.67		P	25.8
6	☐			193.34		P	1.7
7	☐			264.45		P	16.0
8	☐			733.36		P	13.6

172 Yb [He] No available calibration points

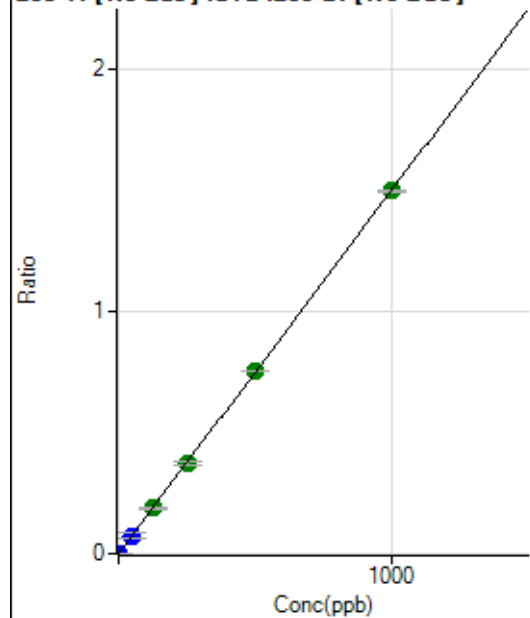
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			43.33		P	50.4
2	☐			31.11		P	40.6
3	☐			37.78		P	10.2
4	☐			66.67		P	20.0
5	☐			57.78		P	24.0
6	☐			71.11		P	9.8
7	☐			126.67		P	11.5
8	☐			272.23		P	16.3

176 Yb [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			2609.18		P	3.1
2	☐			2823.67		P	7.3
3	☐			6109.24		P	8.9
4	☐			11246.00		P	1.8
5	☐			19780.43		P	0.7
6	☐			37654.63		P	0.7
7	☐			72126.58		P	0.4
8	☐			2573.61		P	1.9

176 Yb [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			448.90		P	7.0
2	☐			376.68		P	9.0
3	☐			1573.44		P	4.8
4	☐			3407.14		P	2.6
5	☐			6227.08		P	0.9
6	☐			12201.27		P	0.4
7	☐			23659.02		P	0.5
8	☐			491.13		P	3.1

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	215.56	0.0000	P	13.8
2	☐	1.000	0.912	16567.33	0.0014	P	12.4
3	☐	50.000	49.996	806195.19	0.0748	P	22.8
4	☐	125.000	124.611	2086149.92	0.1865	A	0.7
5	☐	250.000	248.976	4159210.95	0.3726	A	2.9
6	☐	500.000	502.629	8163748.56	0.7522	A	0.3
7	☐	1000.000	998.990	15900301.15	1.4950	A	0.5
8	☐			1649.02	0.0002	P	24.5

$$y = 0.0015 * x + 1.8837E-005$$

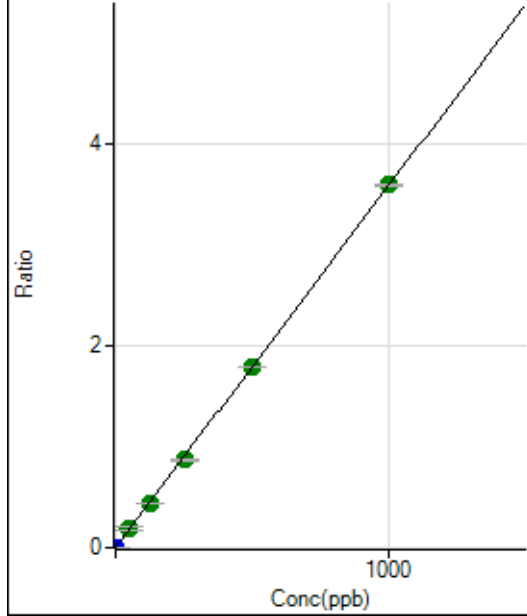
$$R = 1.0000$$

$$DL = 0.005209$$

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	558.91	0.0000	P	5.7
2	☐	1.000	0.912	39798.70	0.0033	P	11.6
3	☐	50.000	52.859	2046031.91	0.1899	A	22.6
4	☐	125.000	123.174	4948944.23	0.4424	A	0.5
5	☐	250.000	242.345	9716669.09	0.8704	A	2.4
6	☐	500.000	498.758	19441106.65	1.7912	A	0.5
7	☐	1000.000	1002.620	38297558.04	3.6007	A	0.4
8	☐			3905.11	0.0004	P	25.0

$$y = 0.0036 * x + 4.8903E-005$$

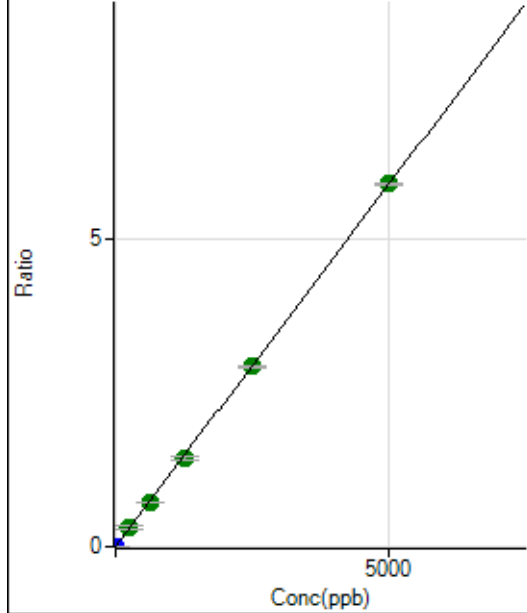
$$R = 1.0000$$

$$DL = 0.00232$$

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	1062.28	0.0001	P	4.1
2	☐	1.000	0.935	14256.80	0.0012	P	13.9
3	☐	250.000	267.997	3397509.98	0.3152	A	22.5
4	☐	625.000	613.579	8071761.55	0.7216	A	1.1
5	☐	1250.000	1220.870	16027709.62	1.4357	A	2.5
6	☐	2500.000	2487.584	31749724.25	2.9252	A	0.4
7	☐	5000.000	5014.018	62711051.29	5.8961	A	0.8
8	☐			16784.29	0.0019	P	4.9

$$y = 0.0012 * x + 9.2885E-005$$

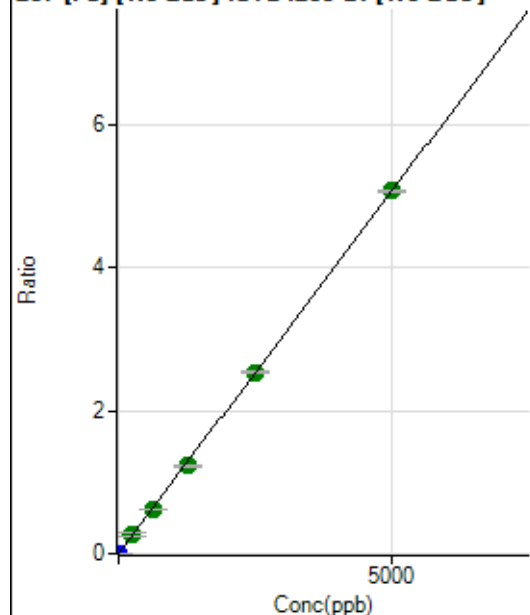
$$R = 1.0000$$

$$DL = 0.009674$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	908.93	0.0001	P	5.4
2	☐	1.000	0.935	12292.58	0.0010	P	13.5
3	☐	250.000	265.365	2896707.46	0.2691	A	23.5
4	☐	625.000	616.552	6993251.15	0.6252	A	0.8
5	☐	1250.000	1213.709	13738785.35	1.2306	A	2.1
6	☐	2500.000	2501.313	27525907.37	2.5360	A	1.4
7	☐	5000.000	5008.704	54011532.53	5.0781	A	0.2
8	☐			14135.65	0.0016	P	6.6

$$y = 0.0010 * x + 7.9526E-005$$

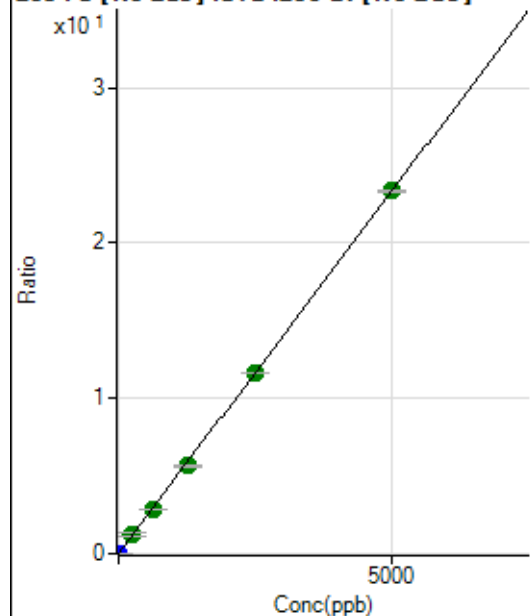
$$R = 1.0000$$

$$DL = 0.0127$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	4286.99	0.0004	P	1.5
2	☐	1.000	0.937	56702.25	0.0047	P	13.0
3	☐	250.000	265.710	13336986.44	1.2385	A	23.1
4	☐	625.000	615.785	32103082.99	2.8698	A	0.5
5	☐	1250.000	1218.612	63396317.25	5.6789	A	2.5
6	☐	2500.000	2498.850	126387681.1	11.6446	A	0.8
7	☐	5000.000	5008.789	248255109.6	23.3404	A	0.3
8	☐			65575.33	0.0075	P	6.2

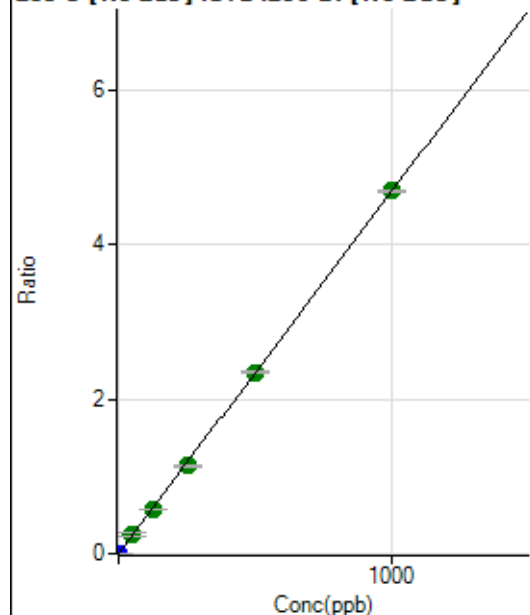
$$y = 0.0047 * x + 3.7501E-004$$

$$R = 1.0000$$

$$DL = 0.003518$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	66.67	0.0000	P	25.8
2	☐	1.000	0.919	51660.18	0.0043	P	11.0
3	☐	50.000	52.745	2659492.56	0.2472	A	23.8
4	☐	125.000	121.930	6393753.58	0.5715	A	0.3
5	☐	250.000	242.107	12668346.20	1.1349	A	2.8
6	☐	500.000	500.429	25460291.84	2.3457	A	1.3
7	☐	1000.000	1002.006	49955837.03	4.6968	A	0.4
8	☐			2402.50	0.0003	P	38.8

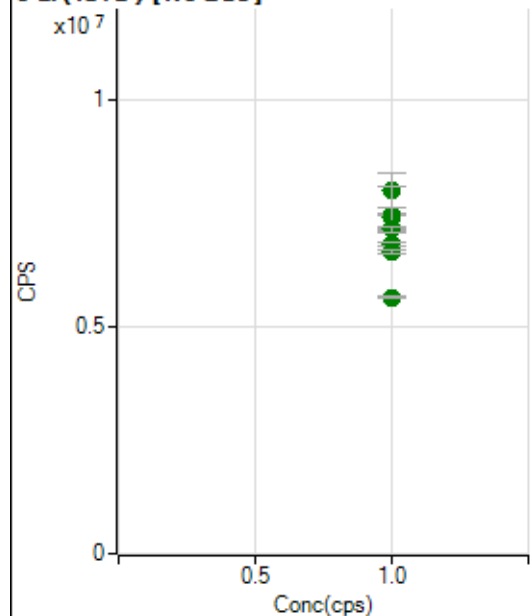
$$y = 0.0047 * x + 5.8405E-006$$

$$R = 1.0000$$

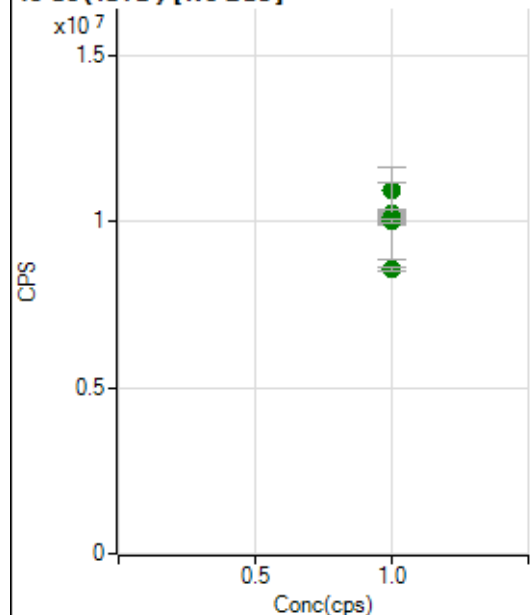
$$DL = 0.0009635$$

Weight: <None>

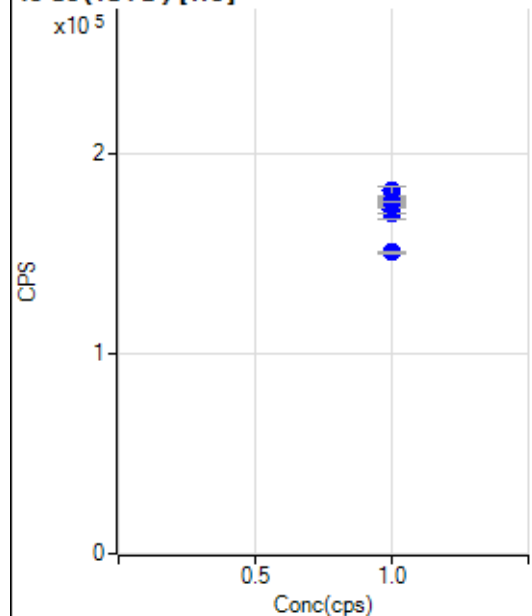
Min Conc: 0

6 Li (ISTD) [No Gas]

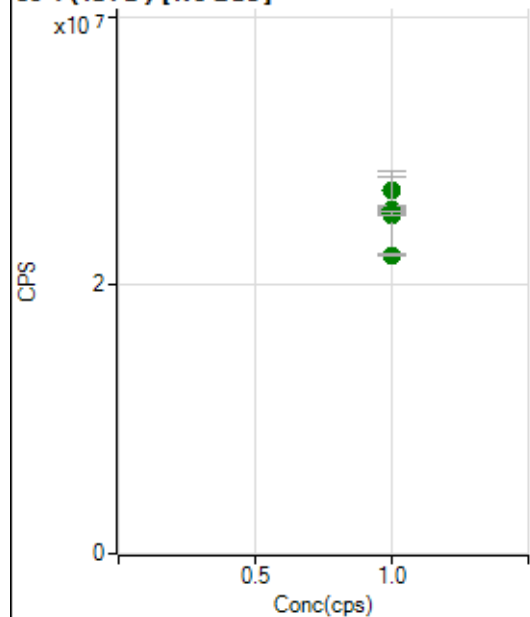
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	1.000		7459732.39		A	0.9
2	☐	1.000		7983787.46		A	9.5
3	☐	1.000		7386590.49		A	18.4
4	☐	1.000		7133979.04		A	0.9
5	☐	1.000		7139633.91		A	2.1
6	☐	1.000		6812729.57		A	1.4
7	☐	1.000		6635621.65		A	1.3
8	☐	1.000		5638948.47		A	0.4

45 Sc (ISTD) [No Gas]

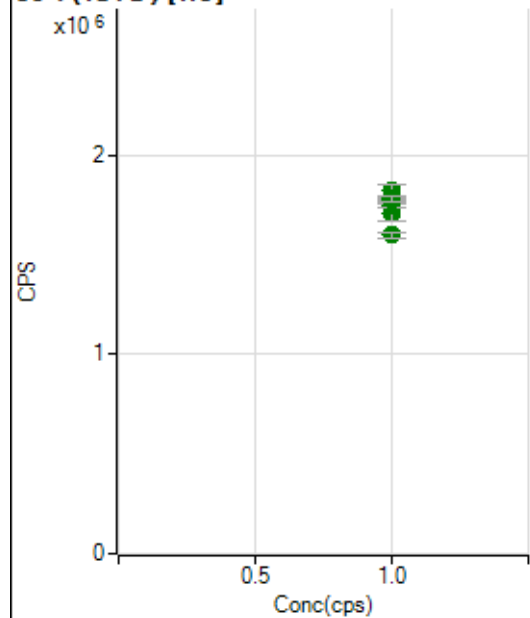
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		10215678.80		A	0.9
2	☐	1.000		10906780.81		A	12.6
3	☐	1.000		9986571.66		A	22.9
4	☐	1.000		10066808.04		A	1.2
5	☐	1.000		10109309.71		A	4.5
6	☐	1.000		9995291.87		A	0.7
7	☐	1.000		9989874.44		A	1.0
8	☐	1.000		8576069.11		A	1.5

45 Sc (ISTD) [He]

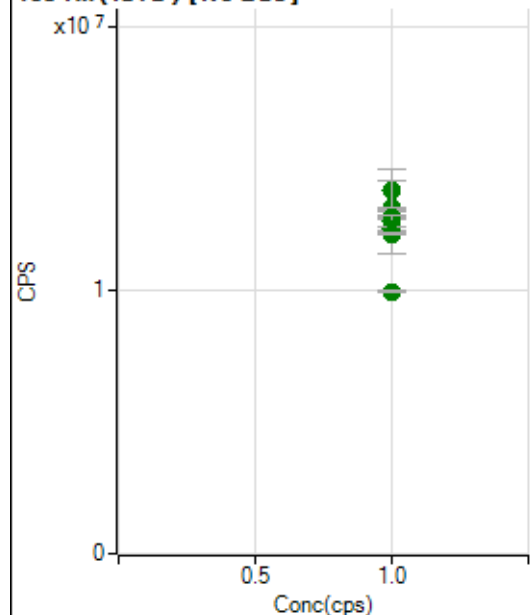
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		177177.94		P	0.7
2	☐	1.000		170154.72		P	3.7
3	☐	1.000		181391.97		P	2.8
4	☐	1.000		174445.88		P	0.6
5	☐	1.000		172557.11		P	2.3
6	☐	1.000		173584.66		P	0.5
7	☐	1.000		176143.78		P	0.3
8	☐	1.000		150625.04		P	0.4

89 Y (ISTD) [No Gas]

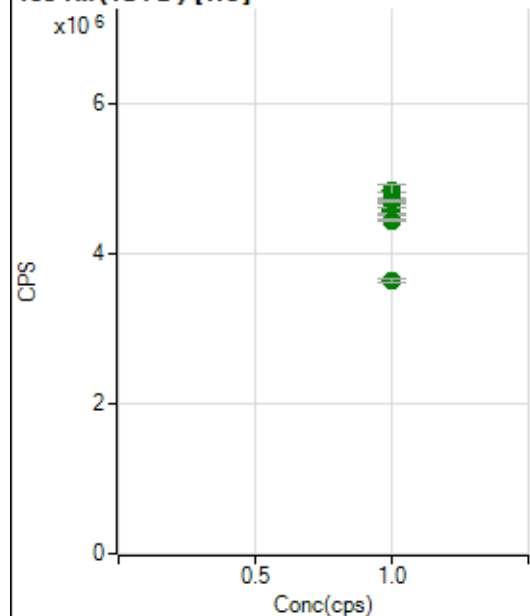
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		25607494.06		A	1.3
2	☐	1.000		27007205.71		A	10.6
3	☐	1.000		25184454.49		A	22.7
4	☐	1.000		25586738.23		A	1.8
5	☐	1.000		25536009.90		A	2.4
6	☐	1.000		25394231.01		A	0.5
7	☐	1.000		25367367.68		A	0.9
8	☐	1.000		22255904.67		A	1.0

89 Y (ISTD) [He]

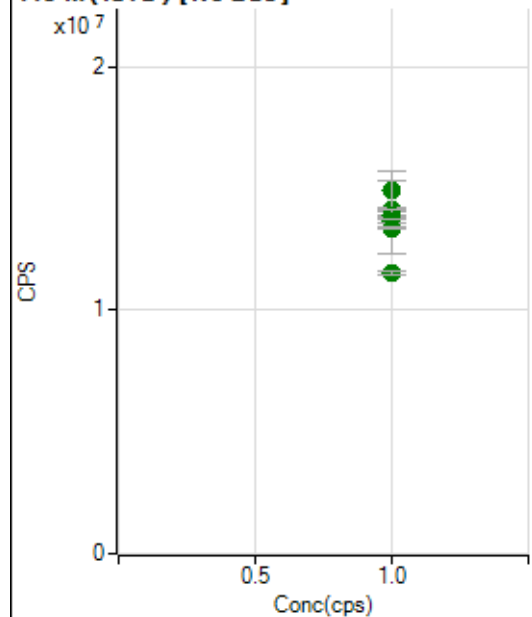
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1793651.76		A	0.2
2	☐	1.000		1714019.75		A	4.7
3	☐	1.000		1822027.44		A	3.5
4	☐	1.000		1786273.90		A	0.9
5	☐	1.000		1774498.18		A	2.3
6	☐	1.000		1749402.35		A	1.1
7	☐	1.000		1780635.84		A	1.4
8	☐	1.000		1601540.60		A	1.7

103 Rh (ISTD) [No Gas]

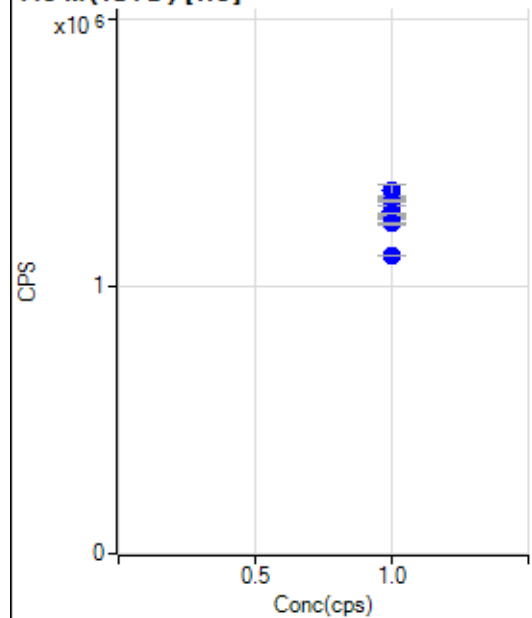
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		13112927.72		A	0.8
2	☐	1.000		13778951.32		A	11.6
3	☐	1.000		12763104.67		A	21.6
4	☐	1.000		12770838.28		A	0.6
5	☐	1.000		12627750.65		A	3.2
6	☐	1.000		12307176.35		A	1.2
7	☐	1.000		12159744.12		A	0.5
8	☐	1.000		9958344.92		A	0.4

103 Rh (ISTD) [He]

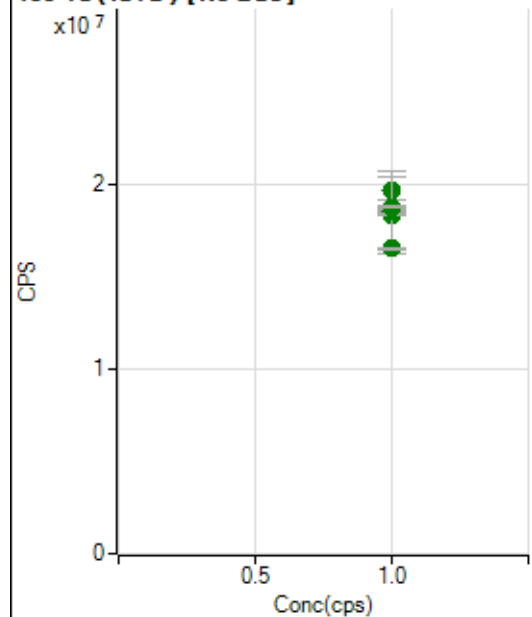
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4815406.70		A	0.1
2	☐	1.000		4589171.32		A	3.7
3	☐	1.000		4839513.92		A	3.8
4	☐	1.000		4702677.01		A	0.9
5	☐	1.000		4562998.72		A	2.6
6	☐	1.000		4519323.44		A	0.7
7	☐	1.000		4446710.18		A	0.7
8	☐	1.000		3640904.29		A	1.4

115 In (ISTD) [No Gas]

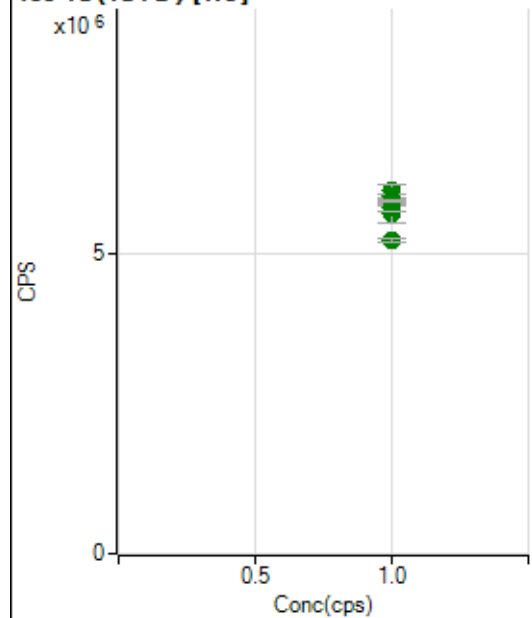
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		14133708.54		A	1.0
2	☐	1.000		14886761.58		A	11.1
3	☐	1.000		13814483.15		A	22.1
4	☐	1.000		13844106.07		A	0.6
5	☐	1.000		13906681.82		A	3.1
6	☐	1.000		13649216.15		A	0.6
7	☐	1.000		13372914.04		A	0.1
8	☐	1.000		11520172.17		A	1.6

115 In (ISTD) [He]

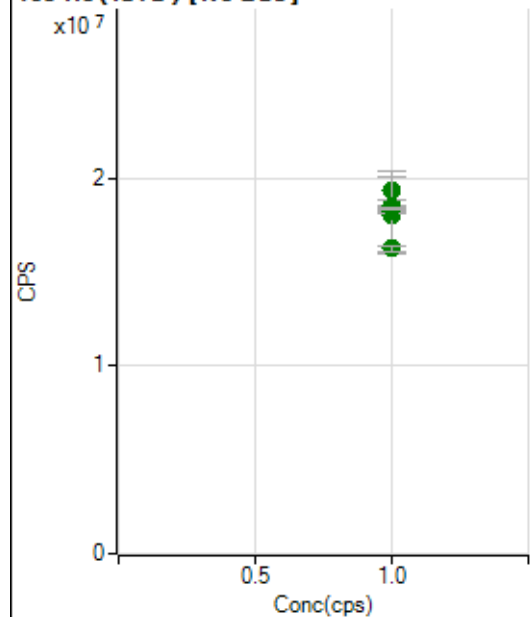
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		1329786.87		P	0.3
2	☐	1.000		1278726.84		P	4.0
3	☐	1.000		1355989.41		P	3.3
4	☐	1.000		1317956.90		P	0.6
5	☐	1.000		1277018.56		P	3.2
6	☐	1.000		1270093.19		P	0.4
7	☐	1.000		1233218.46		P	0.7
8	☐	1.000		1114535.32		P	0.3

159 Tb (ISTD) [No Gas]

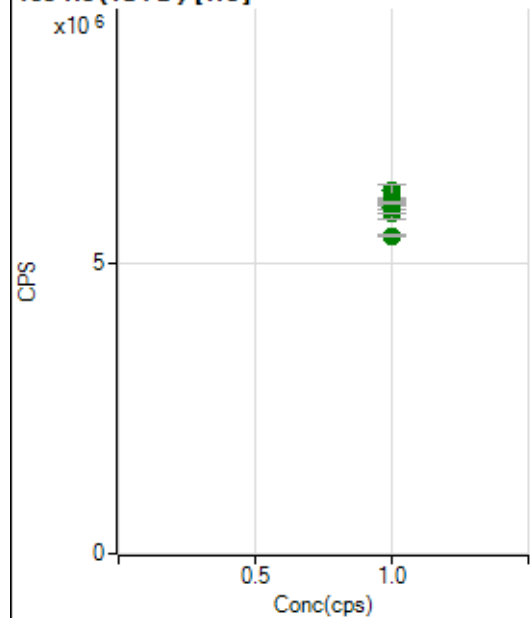
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18562840.97		A	0.2
2	☐	1.000		19671785.96		A	11.0
3	☐	1.000		18389041.25		A	22.5
4	☐	1.000		18547023.34		A	1.0
5	☐	1.000		18777118.19		A	4.0
6	☐	1.000		18771333.89		A	0.2
7	☐	1.000		18814011.80		A	0.2
8	☐	1.000		16528051.70		A	0.8

159 Tb (ISTD) [He]

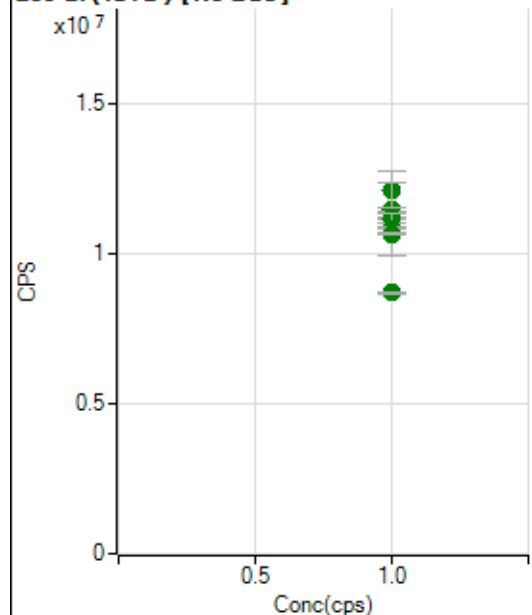
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5831717.55		A	0.8
2	☐	1.000		5654195.54		A	5.2
3	☐	1.000		6033230.33		A	3.4
4	☐	1.000		5932109.08		A	1.3
5	☐	1.000		5767622.41		A	2.7
6	☐	1.000		5846425.96		A	1.4
7	☐	1.000		5876438.73		A	0.5
8	☐	1.000		5208407.49		A	1.4

165 Ho (ISTD) [No Gas]

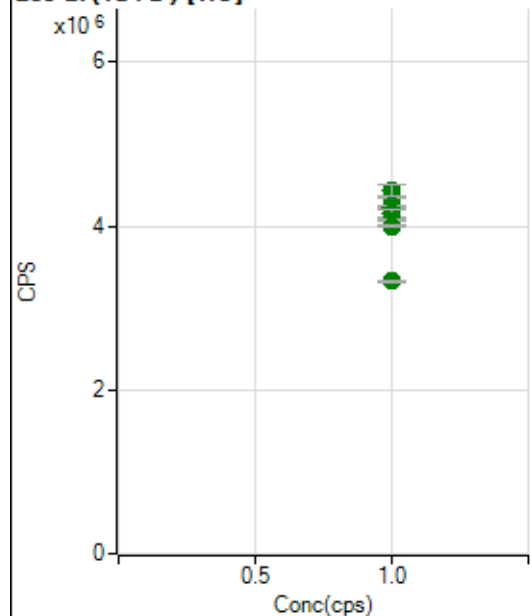
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		18381769.86		A	1.2
2	☐	1.000		19321880.55		A	11.3
3	☐	1.000		18025467.51		A	22.8
4	☐	1.000		18229490.42		A	1.1
5	☐	1.000		18520005.00		A	3.9
6	☐	1.000		18427440.00		A	0.6
7	☐	1.000		18419065.14		A	0.5
8	☐	1.000		16248267.54		A	1.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6065873.11		A	0.9
2	☐	1.000		5834054.50		A	2.8
3	☐	1.000		6232456.16		A	3.8
4	☐	1.000		6060756.51		A	1.6
5	☐	1.000		5953029.98		A	3.9
6	☐	1.000		6016991.09		A	1.3
7	☐	1.000		6029564.01		A	0.6
8	☐	1.000		5462861.24		A	0.4

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		11433062.74		A	1.2
2	☐	1.000		12082973.43		A	11.4
3	☐	1.000		11135984.62		A	21.5
4	☐	1.000		11186618.30		A	0.8
5	☐	1.000		11168754.83		A	2.8
6	☐	1.000		10853558.45		A	0.4
7	☐	1.000		10636157.55		A	0.5
8	☐	1.000		8688354.59		A	1.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4354462.26		A	0.7
2	☐	1.000		4166908.44		A	3.0
3	☐	1.000		4429983.23		A	3.3
4	☐	1.000		4233329.28		A	1.1
5	☐	1.000		4146277.23		A	3.1
6	☐	1.000		4071084.87		A	0.8
7	☐	1.000		3997771.61		A	0.8
8	☐	1.000		3331441.27		A	0.8

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8012025MS-02.b
Acq. Date-Time 2025-01-20 12:26:15
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		33447	334467.46			0.482	5.000
24		704515	7045151.04			0.739	5.000
25		95870	958697.78			0.885	5.000
26		111708	1117077.84			0.856	5.000
59		161821	1618214.42			0.603	5.000
113		18731	187308.65			0.390	5.000
115		249986	2499862.53			0.526	5.000
206		59241	592405.01			0.674	5.000
207		52013	520130.45			0.621	5.000
208		132683	1326829.19			0.802	5.000
220		0	3.40			16.109	

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

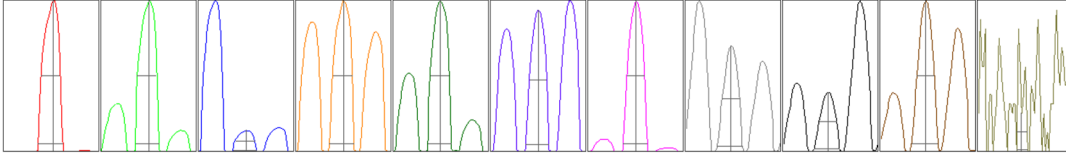
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	33660	33534	33290	33465	33286
24	701916	706501	706711	696952	710496
25	94948	96448	96491	94934	96527
26	111388	112163	112023	110229	112736
59	160424	161818	162992	161458	162415
113	18790	18764	18793	18679	18629
115	250918	251776	248712	248969	249557
206	58849	59280	58928	59286	59860
207	51475	52072	51995	52264	52260
208	133116	134270	131592	132537	131900

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	60199.98	9.10	8.90 - 9.10	
24	1231286.47	24.05	23.90 - 24.10	
25	165367.63	25.05	24.90 - 25.10	
26	192754.31	26.05	25.90 - 26.10	
59	286377.75	59.00	58.90 - 59.10	
113	36110.68	113.05	112.90 - 113.10	
115	482281.61	115.05	114.90 - 115.10	
206	112369.81	205.95	205.90 - 206.10	
207	96659.15	206.95	206.90 - 207.10	
208	248453.05	207.95	207.90 - 208.10	
220	0.20	219.90	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.60	0.775	0.900	
24	0.61	0.739	0.900	
25	0.61	0.739	0.900	
26	0.62	0.778	0.900	
59	0.60	0.738	0.900	
113	0.55	0.721	0.900	
115	0.55	0.762	0.900	
206	0.55	0.786	0.900	
207	0.55	0.788	0.900	
208	0.54	0.838	0.900	
220	0.33	0.348		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.78 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	-6.0 V	Omega Lens	8.3 V	Deflect	15.0 V
Extract 2	-130.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-65 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	190 V		

QP Parameters

Mass Gain	102	Axis Gain	0.9959	QP Bias	-4.0 V
Mass Offset	126	Axis Offset	0.07		

Hardware Settings

Torch

Torch H	-0.3 mm	Torch V	1.4 mm
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EM

Discriminator	4.1 mV	Analog HV	2175 V	Pulse HV	1059 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		26846	268459.86			0.485	
89		20464	204638.82			0.285	
205		32647	326468.52			0.586	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	26804	26928	26980	26645	26873
89	20381	20465	20479	20451	20544
205	32976	32589	32485	32556	32629

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.78 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	-6.0 V	Omega Lens	8.3 V	Deflect	2.4 V
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US EPA Tune Check Report

Extract 2	-130.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-65 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	102	Axis Gain	0.9959	QP Bias	-13.0 V
Mass Offset	126	Axis Offset	0.07		
Hardware Settings					
Torch					
Torch H	-0.3 mm	Torch V	1.4 mm		
EM					
Discriminator	4.1 mV	Analog HV	2175 V	Pulse HV	1059 V