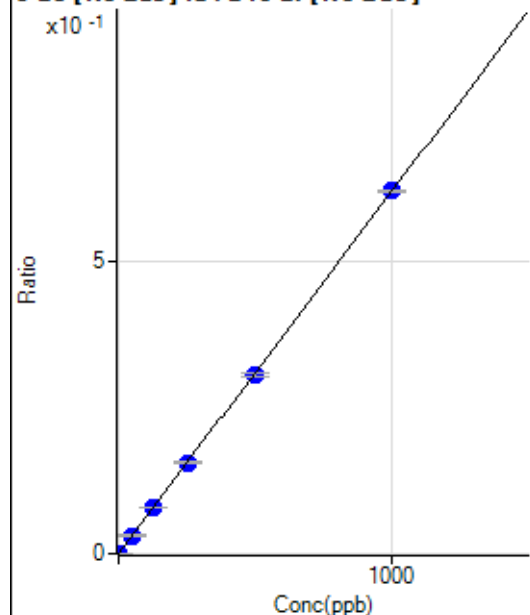


Batch Folder: D:\Agilent\ICPMH\1\DATA\P8061020MS.b\
Analysis File: P8061020MS.batch.bin
DA Date-Time: 2020-06-10 17:43:20
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	005CALB.d	S00	2020-06-10 11:44:35
2	006CALS.d	S01	2020-06-10 11:47:44
3	007CALS.d	S02	2020-06-10 11:50:51
4	008CALS.d	S03	2020-06-10 11:53:59
5	009CALS.d	S04	2020-06-10 11:57:05
6	010CALS.d	S05	2020-06-10 12:00:11
7	011CALS.d	S06	2020-06-10 12:03:10
8	012CALS.d	S07	2020-06-10 12:06:10
9	013CALS.d	S08	2020-06-10 12:09:08

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	36.66	0.0000	P	15.4
2	☐	0.100	0.104	101.31	0.0001	P	15.8
3	☐	1.000	0.944	605.90	0.0006	P	11.9
4	☐	50.000	50.112	31650.17	0.0311	P	2.4
5	☐	125.000	125.501	79582.73	0.0777	P	0.4
6	☐	250.000	251.117	162029.99	0.1555	P	2.0
7	☐	500.000	494.123	323581.56	0.3059	P	1.9
8	☐	1000.000	1002.591	694631.93	0.6206	P	0.8
9	☐			237.96	0.0002	P	9.6

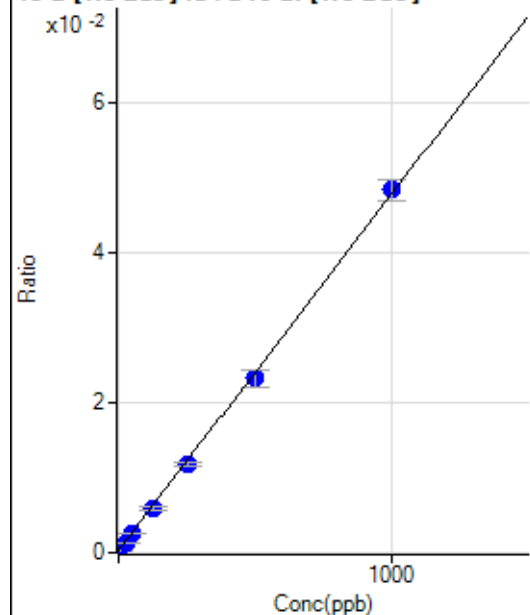
$$y = 6.1891\text{E-}004 * x + 3.6676\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.02734$$

Weight: <None>

Min Conc: 0

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

	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	318.61	0.0003	P	8.4
2	☐	2.500	1.567	395.26	0.0004	P	7.1
3	☐	25.000	20.988	1283.14	0.0013	P	12.1
4	☐	50.000	47.357	2617.73	0.0026	P	8.6
5	☐	125.000	119.331	6126.75	0.0060	P	7.7
6	☐	250.000	241.249	12276.71	0.0118	P	5.4
7	☐	500.000	482.265	24535.55	0.0232	P	9.8
8	☐	1000.000	1011.999	54133.56	0.0484	P	5.8
9	☐			9571.91	0.0096	P	9.5

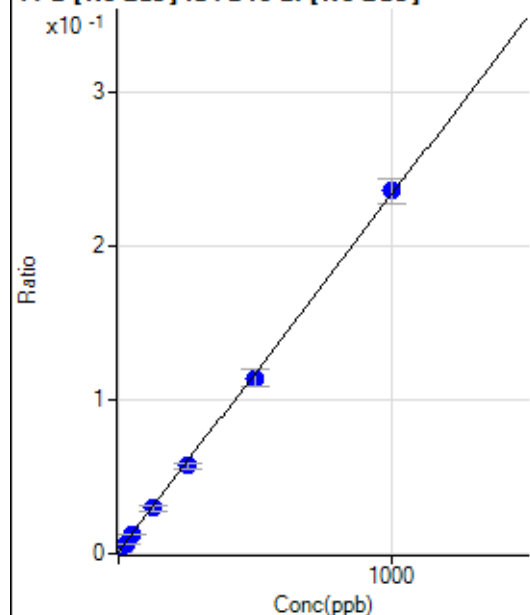
$$y = 4.7465\text{E-}005 * x + 3.1901\text{E-}004$$

$$R = 0.9997$$

$$DL = 1.701$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1423.13	0.0014	P	3.2
2	☐	2.500	1.926	1881.76	0.0019	P	6.6
3	☐	25.000	21.389	6233.44	0.0064	P	11.8
4	☐	50.000	47.541	12710.34	0.0125	P	7.6
5	☐	125.000	120.829	30182.29	0.0295	P	9.3
6	☐	250.000	240.612	59752.30	0.0573	P	6.1
7	☐	500.000	485.096	120559.62	0.1140	P	9.9
8	☐	1000.000	1010.535	264228.78	0.2360	P	6.6
9	☐			46299.62	0.0463	P	10.0

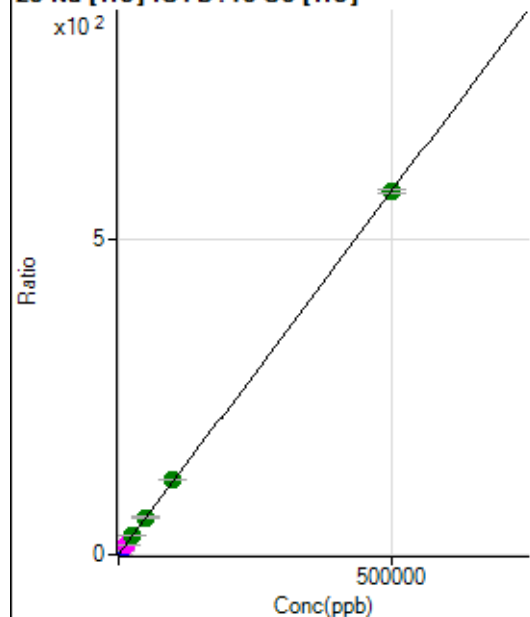
$$y = 2.3214\text{E-}004 * x + 0.0014$$

$$R = 0.9998$$

$$DL = 0.5961$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	24309.57	0.3421	P	0.6
2	☐	50.000	48.895	28536.78	0.3986	P	1.1
3	☐	500.000	473.086	63494.23	0.8884	P	1.9
4	☐	5000.000	5274.973	449858.94	6.4334	P	0.1
5	☐	12500.000	12921.879	1069696.83	15.2637	M	2.2
6	☐	25000.000	25857.821	2145879.19	30.2015	A	2.2
7	☐	50000.000	51144.528	4176840.98	59.4014	A	1.8
8	☐	100000.00	103540.29	8706494.47	119.9055	A	0.8
9	☐	500000.00	499121.32	38313472.04	576.7037	A	1.2

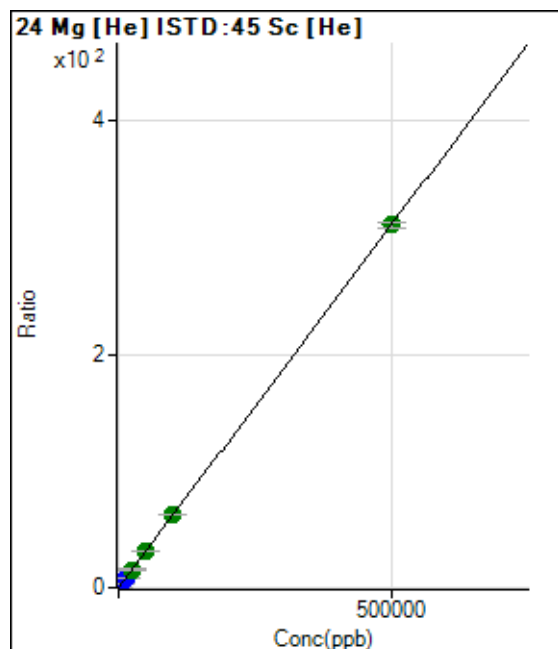
$$y = 0.0012 * x + 0.3421$$

$$R = 1.0000$$

$$DL = 5.125$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	391.68	0.0055	P	15.1
2	☐	50.000	46.616	2472.50	0.0345	P	2.9
3	☐	500.000	459.105	20815.32	0.2912	P	3.7
4	☐	5000.000	5122.813	223320.96	3.1937	P	0.4
5	☐	12500.000	12609.706	550377.08	7.8531	P	1.4
6	☐	25000.000	25055.250	1108331.63	15.5986	A	1.6
7	☐	50000.000	50620.416	2215570.56	31.5091	A	2.2
8	☐	100000.00	100916.81	4560724.49	62.8110	A	1.6
9	☐	500000.00	499747.90	20661907.23	311.0229	A	1.7

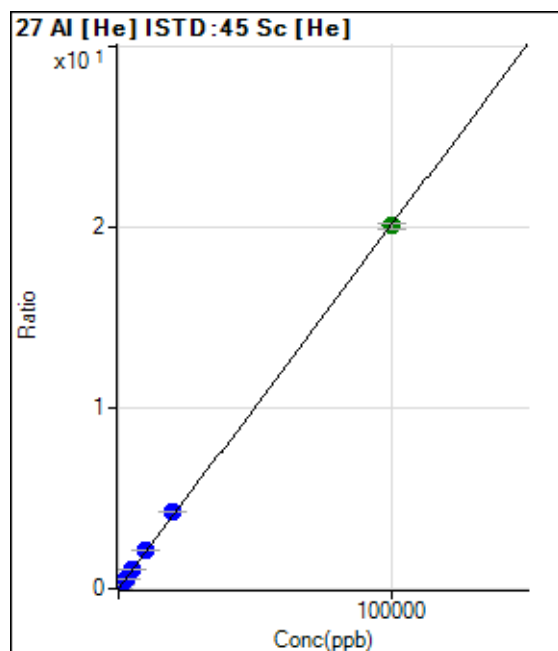
$$y = 6.2235\text{E-}004 * x + 0.0055$$

$$R = 1.0000$$

$$DL = 4.006$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	363.27	0.0051	P	7.6
2	☒	2.000					
3	☐	20.000	20.588	661.89	0.0093	P	4.2
4	☐	1000.000	1068.976	15413.76	0.2204	P	1.1
5	☐	2500.000	2607.592	37169.06	0.5304	P	1.6
6	☐	5000.000	5219.073	75059.42	1.0564	P	1.6
7	☐	10000.000	10456.917	148476.97	2.1114	P	0.8
8	☐	20000.000	21091.888	308853.18	4.2536	P	1.3
9	☐	100000.00	99721.597	1334764.89	20.0917	A	1.4

$$y = 2.0143\text{E-}004 * x + 0.0051$$

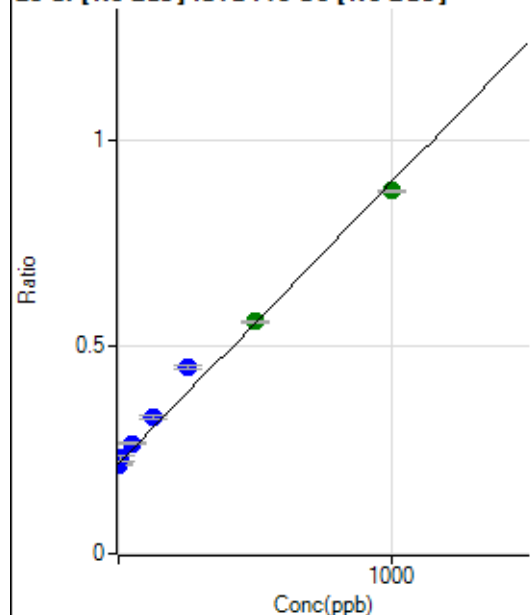
$$R = 0.9999$$

$$DL = 5.799$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	447690.97	0.2179	P	0.7
2	☐	1.000	-7.060	453057.71	0.2131	P	1.1
3	☐	10.000	17.579	468833.10	0.2299	P	6.0
4	☐	50.000	71.721	556070.35	0.2667	P	1.5
5	☐	125.000	164.546	704273.34	0.3297	P	1.8
6	☐	250.000	343.467	960783.78	0.4513	P	2.3
7	☐	500.000	503.560	1205006.55	0.5601	A	0.7
8	☐	1000.000	968.756	1996251.35	0.8761	A	0.7
9	☐			588162.20	0.2907	P	1.5

$$y = 6.7944\text{E-}004 * x + 0.2179$$

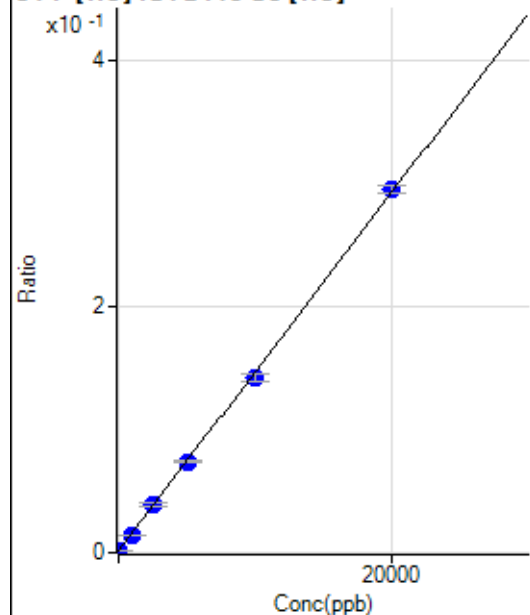
$$R = 0.9946$$

$$DL = 6.634$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	-3.994	100.00	0.0014	P	30.2
2	☐	0.000	11.302	116.67	0.0016	P	31.3
3	☐	0.000	-7.308	97.23	0.0014	P	17.3
4	☐	1000.000	886.863	1005.62	0.0144	P	1.0
5	☐	2500.000	2580.336	2736.45	0.0390	P	6.0
6	☐	5000.000	4998.130	5276.10	0.0743	P	3.1
7	☐	10000.000	9673.975	10009.24	0.1423	P	4.0
8	☐	20000.000	20159.095	21424.58	0.2950	P	2.0
9	☐			91.67	0.0014	P	45.0

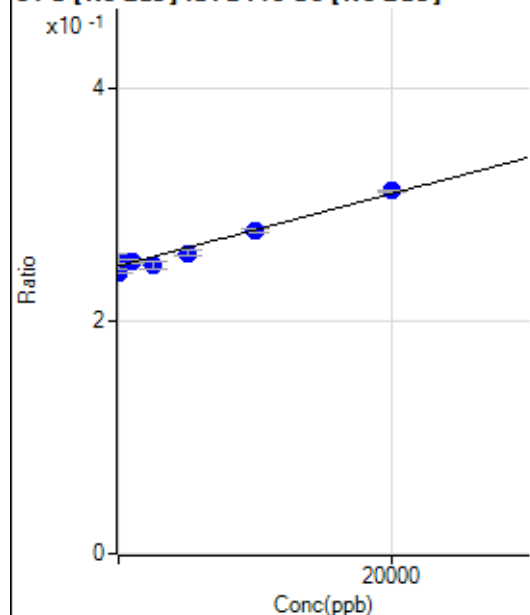
$$y = 1.4563\text{E-}005 * x + 0.0015$$

$$R = 0.9998$$

$$DL = 80.42$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	659.138	512919.19	0.2497	P	0.5
2	☐	0.000	-1946.557	513542.75	0.2416	P	0.2
3	☐	0.000	1287.419	513280.50	0.2516	P	5.6
4	☐	1000.000	1376.335	525309.75	0.2519	P	1.5
5	☐	2500.000	78.013	529369.16	0.2479	P	2.2
6	☐	5000.000	3509.650	550397.63	0.2585	P	2.1
7	☐	10000.000	9824.881	598465.99	0.2782	P	0.9
8	☐	20000.000	20744.079	711144.39	0.3121	P	0.8
9	☐			478311.72	0.2365	P	0.7

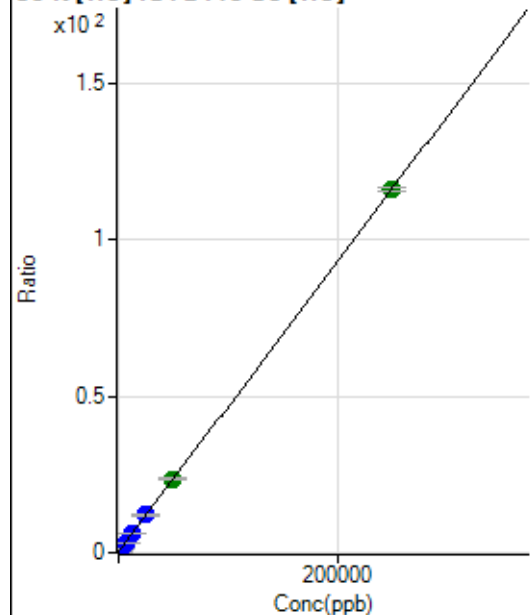
$$y = 3.1085\text{E-}006 * x + 0.2476$$

$$R = 0.9831$$

$$DL = 5124$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20662.49	0.2908	P	1.7
2	☐	50.000	44.356	22287.12	0.3113	P	0.7
3	☐	500.000	452.798	35739.17	0.5001	P	2.3
4	☐	2500.000	2583.047	103825.24	1.4848	P	0.8
5	☐	6250.000	6229.148	222191.39	3.1702	P	0.9
6	☐	12500.000	12679.483	437118.70	6.1519	P	0.9
7	☐	25000.000	25291.166	842569.74	11.9817	P	1.0
8	☐	50000.000	50287.983	1709026.79	23.5365	A	1.0
9	☐	250000.00	249904.09	7694182.81	115.8094	A	0.9

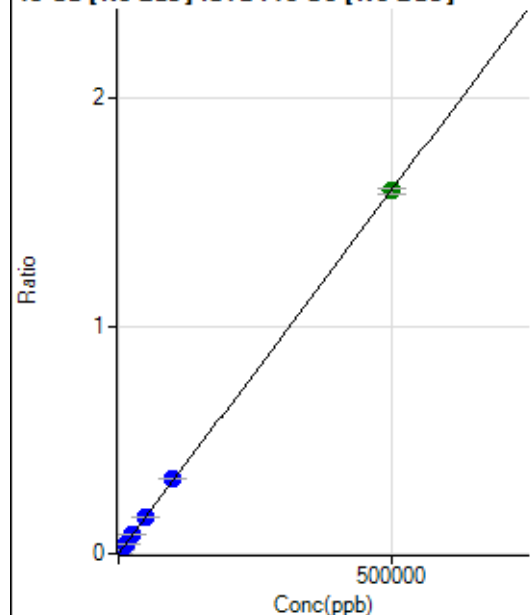
$$y = 4.6225\text{E-}004 * x + 0.2908$$

$$R = 1.0000$$

$$DL = 32.25$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	222.23	0.0001	P	19.3
2	☐	50.000	64.751	669.48	0.0003	P	4.5
3	☐	500.000	503.283	3492.17	0.0017	P	10.4
4	☐	5000.000	5086.185	34090.96	0.0163	P	0.4
5	☐	12500.000	12521.928	85612.47	0.0401	P	1.6
6	☐	25000.000	25485.245	173433.33	0.0815	P	2.4
7	☐	50000.000	50692.115	348411.97	0.1619	P	0.9
8	☐	100000.00	103205.38	750962.72	0.3296	P	1.0
9	☐	500000.00	499264.03	3224624.81	1.5940	A	1.4

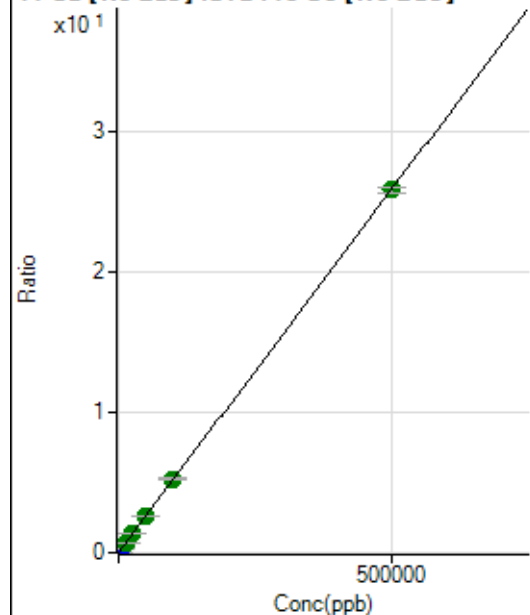
$$y = 3.1925\text{E-}006 * x + 1.0817\text{E-}004$$

$$R = 1.0000$$

$$DL = 19.57$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27615.94	0.0134	P	1.2
2	☐	50.000	36.768	32620.97	0.0153	P	0.7
3	☐	500.000	487.700	78896.75	0.0387	P	5.4
4	☐	5000.000	5198.815	588841.26	0.2824	P	1.1
5	☐	12500.000	12742.832	1436494.28	0.6726	A	1.8
6	☐	25000.000	25663.868	2854882.22	1.3410	A	1.8
7	☐	50000.000	50029.040	5596652.64	2.6013	A	1.2
8	☐	100000.00	101498.42	11993857.13	5.2637	A	1.0
9	☐	500000.00	499656.17	52313995.27	25.8596	A	1.3

$$y = 5.1728\text{E-}005 * x + 0.0134$$

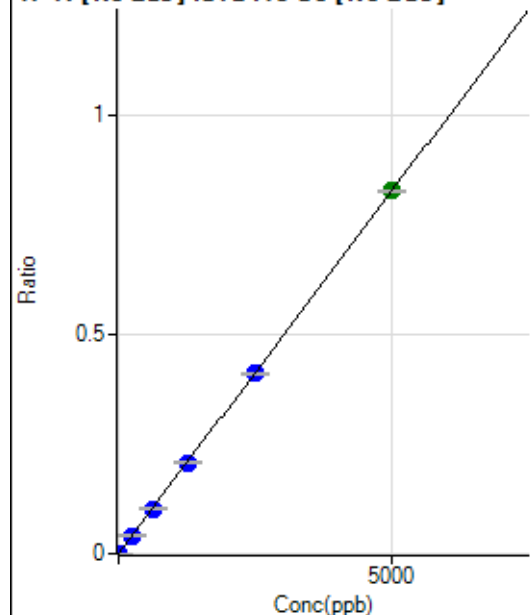
$$R = 1.0000$$

$$DL = 9.678$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	422.24	0.0002	P	6.1
2	☐	0.500	0.299	541.69	0.0003	P	13.9
3	☐	5.000	4.873	2058.54	0.0010	P	9.6
4	☐	250.000	250.732	86753.68	0.0416	P	2.5
5	☐	625.000	620.660	219298.43	0.1027	P	2.3
6	☐	1250.000	1253.015	440909.74	0.2071	P	1.5
7	☐	2500.000	2484.713	883097.07	0.4105	P	0.8
8	☐	5000.000	5007.396	1884370.72	0.8270	A	0.4
9	☐			772.26	0.0004	P	5.2

$$y = 1.6512E-004 * x + 2.0552E-004$$

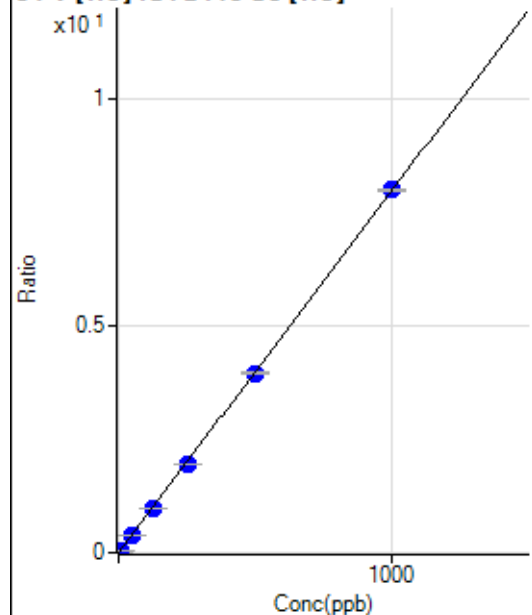
$$R = 1.0000$$

$$DL = 0.2265$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	20.00	0.0003	P	28.7
2	☐	0.500	0.484	296.68	0.0041	P	6.4
3	☐	5.000	4.500	2586.93	0.0362	P	0.3
4	☐	50.000	49.962	27900.61	0.3990	P	1.4
5	☐	125.000	123.433	69057.57	0.9853	P	1.1
6	☐	250.000	245.677	139332.56	1.9609	P	1.1
7	☐	500.000	495.668	278190.34	3.9560	P	0.9
8	☐	1000.000	1003.447	581498.16	8.0084	P	0.9
9	☐			238.89	0.0036	P	7.3

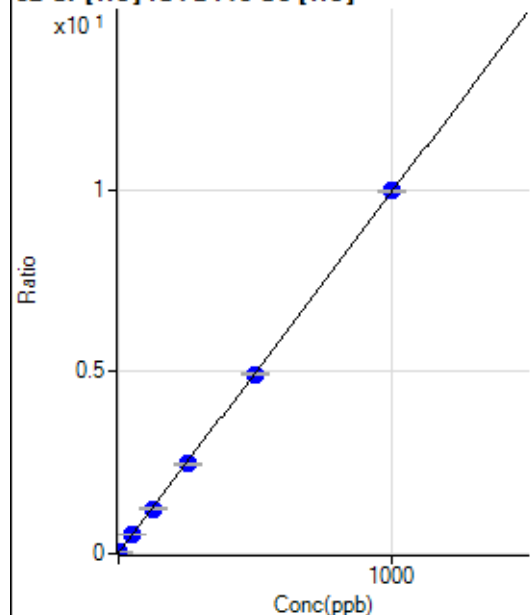
$$y = 0.0080 * x + 2.8130E-004$$

$$R = 1.0000$$

$$DL = 0.03039$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	968.93	0.0136	P	7.0
2	☒	0.200					
3	☐	2.000	1.979	2378.00	0.0333	P	1.6
4	☐	50.000	50.638	36081.02	0.5160	P	1.4
5	☐	125.000	123.393	86748.76	1.2378	P	1.1
6	☐	250.000	246.534	174747.83	2.4594	P	1.2
7	☐	500.000	494.979	346257.79	4.9240	P	1.0
8	☐	1000.000	1003.546	723883.97	9.9693	P	0.5
9	☐			11832.88	0.1782	P	4.8

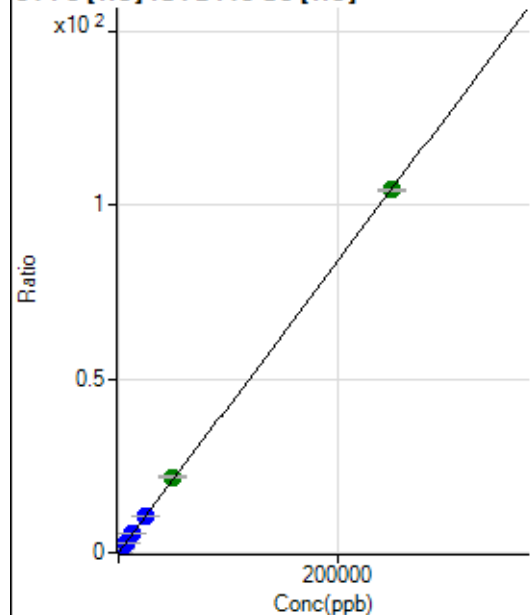
$$y = 0.0099 * x + 0.0136$$

$$R = 1.0000$$

$$DL = 0.2878$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	440.76	0.0062	P	13.7
2	☐	5.000	3.611	551.87	0.0077	P	13.4
3	☐	50.000	48.502	1892.75	0.0265	P	4.8
4	☐	2500.000	2581.156	75907.84	1.0856	P	0.6
5	☐	6250.000	6276.378	184379.95	2.6308	P	1.0
6	☐	12500.000	12702.531	377865.39	5.3180	P	1.1
7	☐	25000.000	25341.685	745598.91	10.6032	P	1.3
8	☐	50000.000	51710.923	1570496.52	21.6299	A	2.6
9	☐	250000.00	249612.05	6935010.75	104.3852	A	0.9

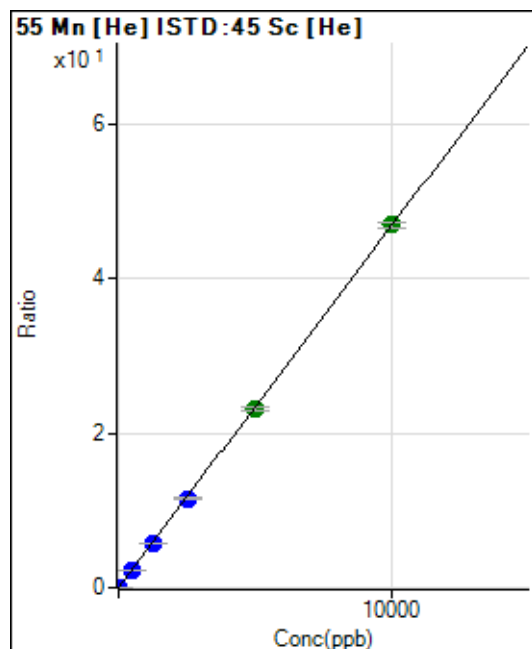
$$y = 4.1817E-004 * x + 0.0062$$

$$R = 1.0000$$

$$DL = 6.075$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	103.33	0.0015	P	36.5
2	☐	0.100	0.080	131.11	0.0018	P	11.3
3	☐	1.000	0.952	422.23	0.0059	P	5.7
4	☐	500.000	498.482	163127.03	2.3329	P	0.6
5	☐	1250.000	1236.180	405301.68	5.7831	P	1.6
6	☐	2500.000	2464.080	818960.73	11.5260	P	1.3
7	☐	5000.000	4959.838	1631475.03	23.1986	A	2.1
8	☐	10000.000	10030.864	3406472.69	46.9158	A	1.7
9	☐			2745.85	0.0413	P	2.0

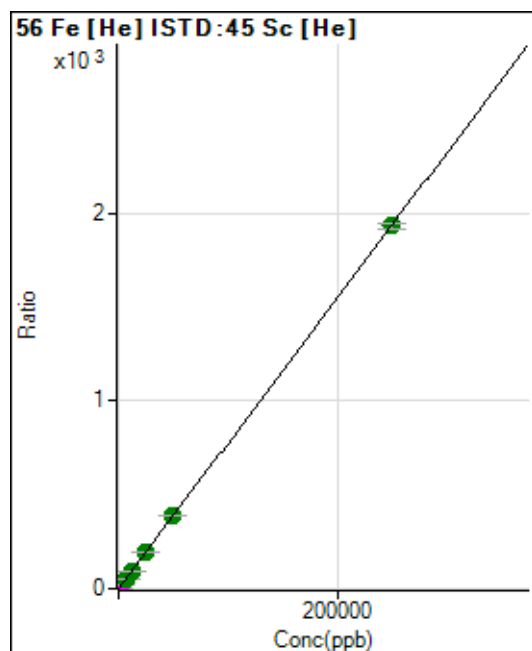
$$y = 0.0047 * x + 0.0015$$

$$R = 1.0000$$

$$DL = 0.341$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	3928.39	0.0553	P	5.0
2	☐	5.000	4.688	6551.61	0.0915	P	3.3
3	☐	50.000	46.019	29363.74	0.4108	P	0.8
4	☐	2500.000	2515.631	1362878.87	19.4904	M	0.5
5	☐	6250.000	6181.565	3350941.97	47.8124	A	1.4
6	☐	12500.000	12272.971	6741112.88	94.8730	A	1.0
7	☐	25000.000	24676.539	13410505.74	190.6996	A	1.1
8	☐	50000.000	50388.664	28269615.21	389.3446	A	2.1
9	☐	250000.00	249967.52	128298475.0	1,931.237	A	1.5

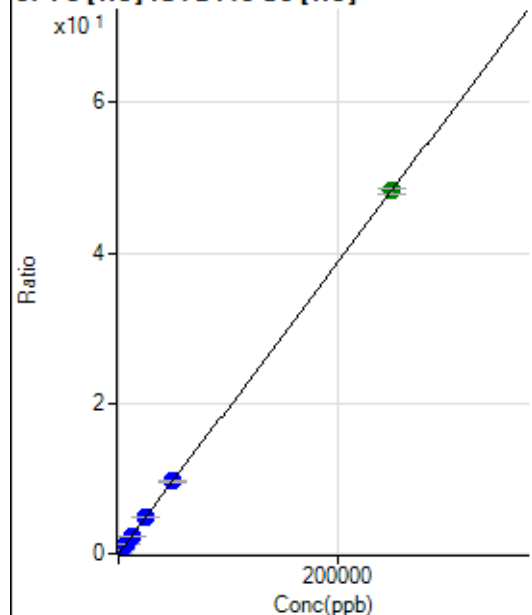
$$y = 0.0077 * x + 0.0553$$

$$R = 1.0000$$

$$DL = 1.075$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	129.63	0.0018	P	19.3
2	☐	5.000	3.546	179.63	0.0025	P	13.8
3	☐	50.000	46.664	774.11	0.0108	P	5.6
4	☐	2500.000	2521.377	34159.60	0.4885	P	1.0
5	☐	6250.000	6173.593	83647.36	1.1935	P	0.8
6	☐	12500.000	12262.152	168306.86	2.3687	P	1.1
7	☐	25000.000	24781.802	336510.02	4.7853	P	1.0
8	☐	50000.000	49994.616	700833.59	9.6519	P	1.5
9	☐	250000.00	250036.48	3206346.98	48.2646	A	1.7

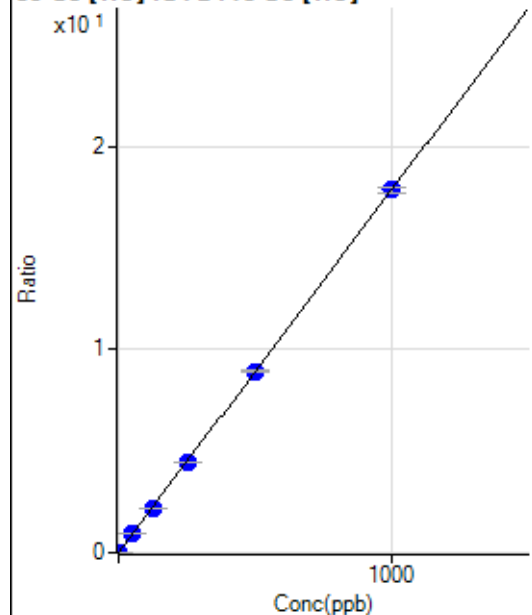
$$y = 1.9302\text{E-}004 * x + 0.0018$$

$$R = 1.0000$$

$$DL = 5.471$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	81.11	0.0011	P	41.5
2	☐	0.100	0.073	175.56	0.0025	P	10.5
3	☐	1.000	0.956	1300.08	0.0182	P	4.1
4	☐	50.000	50.618	63220.57	0.9041	P	0.6
5	☐	125.000	124.072	155202.16	2.2144	P	0.7
6	☐	250.000	249.015	315715.04	4.4433	P	1.0
7	☐	500.000	499.774	627011.79	8.9166	P	1.3
8	☐	1000.000	1000.444	1295951.20	17.8480	P	1.5
9	☐			1906.81	0.0287	P	3.2

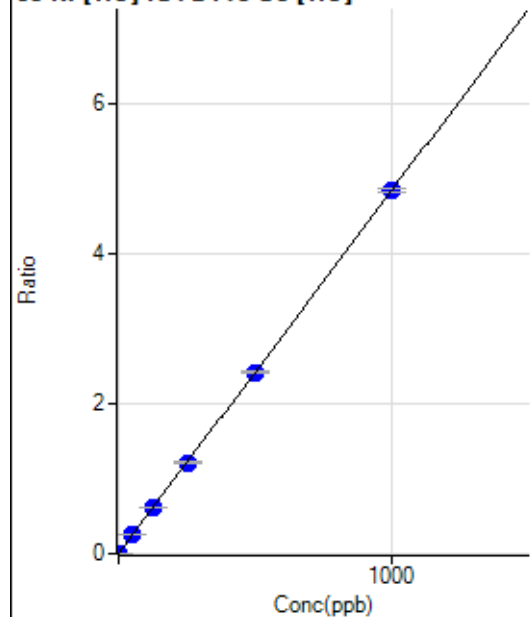
$$y = 0.0178 * x + 0.0011$$

$$R = 1.0000$$

$$DL = 0.07959$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	238.89	0.0034	P	7.8
2	☐	0.100	0.122	283.34	0.0040	P	19.3
3	☐	1.000	1.059	606.69	0.0085	P	12.3
4	☐	50.000	51.012	17491.98	0.2502	P	0.3
5	☐	125.000	124.990	42615.90	0.6081	P	0.8
6	☐	250.000	250.742	86431.44	1.2164	P	1.4
7	☐	500.000	499.886	170293.74	2.4218	P	1.8
8	☐	1000.000	999.822	351460.79	4.8404	P	1.1
9	☐			3759.43	0.0566	P	5.1

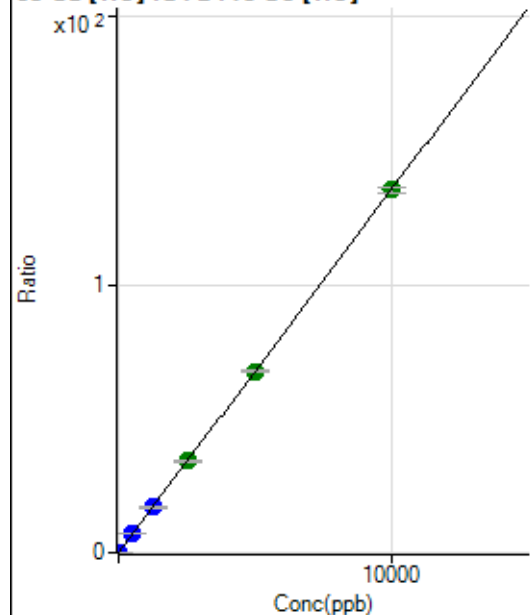
$$y = 0.0048 * x + 0.0034$$

$$R = 1.0000$$

$$DL = 0.1633$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	284.45	0.0040	P	6.8
2	☐	0.200	0.198	478.90	0.0067	P	8.1
3	☐	2.000	2.162	2380.23	0.0333	P	3.6
4	☐	500.000	511.633	485148.72	6.9380	P	0.8
5	☐	1250.000	1246.771	1184536.73	16.9011	P	0.8
6	☐	2500.000	2528.223	2434858.59	34.2682	A	1.7
7	☐	5000.000	5004.049	4769352.91	67.8223	A	1.0
8	☐	10000.000	9990.742	9831640.55	135.4054	A	1.4
9	☐			5058.72	0.0762	P	6.1

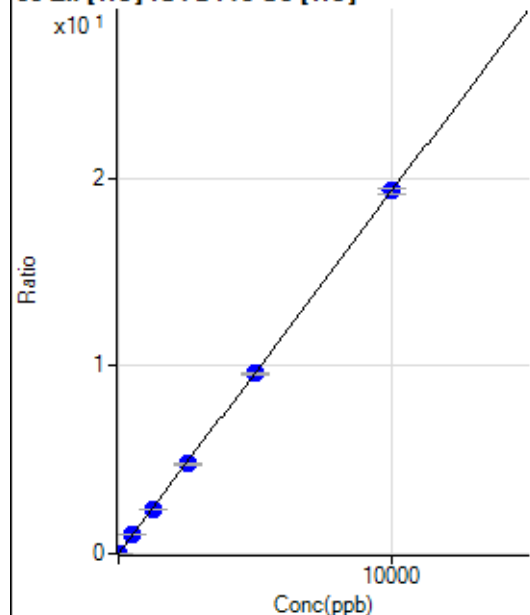
$$y = 0.0136 * x + 0.0040$$

$$R = 1.0000$$

$$DL = 0.06016$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	71.11	0.0010	P	2.6
2	☒	0.200					
3	☐	2.000	2.428	406.68	0.0057	P	13.5
4	☐	500.000	515.884	69773.88	0.9978	P	2.0
5	☐	1250.000	1233.078	167053.38	2.3836	P	1.3
6	☐	2500.000	2481.234	340729.91	4.7954	P	1.1
7	☐	5000.000	4986.313	677603.38	9.6358	P	1.1
8	☐	10000.000	10012.856	1404895.17	19.3483	P	1.4
9	☐			9574.44	0.1442	P	4.0

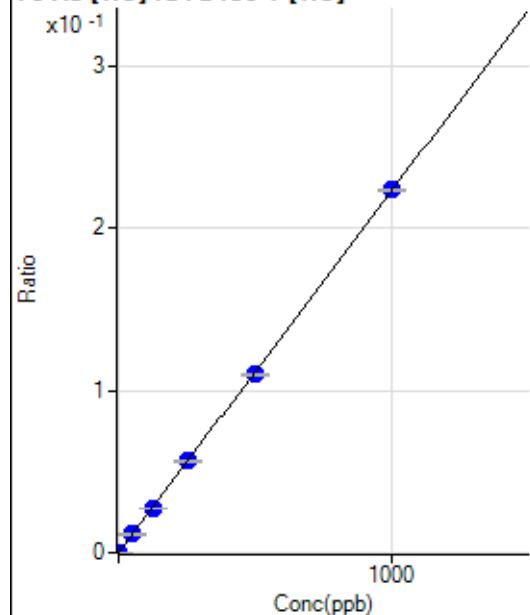
$$y = 0.0019 * x + 0.0010$$

$$R = 1.0000$$

$$DL = 0.04067$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	9.00	0.0000	P	48.0
2	☒	0.100					
3	☐	1.000	0.896	98.01	0.0002	P	7.3
4	☐	50.000	50.524	4955.71	0.0113	P	1.1
5	☐	125.000	123.262	12078.03	0.0275	P	0.5
6	☐	250.000	252.629	24766.75	0.0563	P	1.7
7	☐	500.000	492.393	48787.15	0.1097	P	0.9
8	☐	1000.000	1003.337	102818.25	0.2234	P	0.2
9	☐			48.67	0.0001	P	12.2

$$y = 2.2268E-004 * x + 2.0309E-005$$

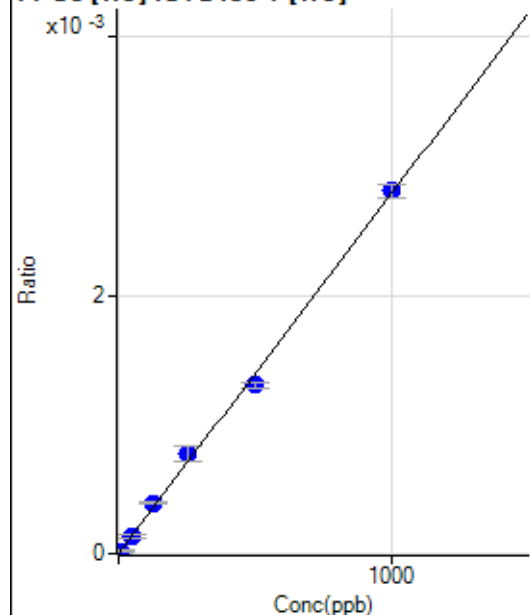
$$R = 1.0000$$

$$DL = 0.1313$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	1.11	0.0000	P	173.2
2	☐	0.500	-0.899	0.00	0.0000	P	
3	☐	5.000	5.372	7.78	0.0000	P	108.0
4	☐	50.000	49.069	61.11	0.0001	P	23.6
5	☐	125.000	138.834	171.12	0.0004	P	4.5
6	☐	250.000	277.586	341.12	0.0008	P	15.1
7	☐	500.000	468.114	581.13	0.0013	P	3.2
8	☐	1000.000	1007.363	1292.30	0.0028	P	3.6
9	☐			2.22	0.0000	P	86.6

$$y = 2.7853E-006 * x + 2.5047E-006$$

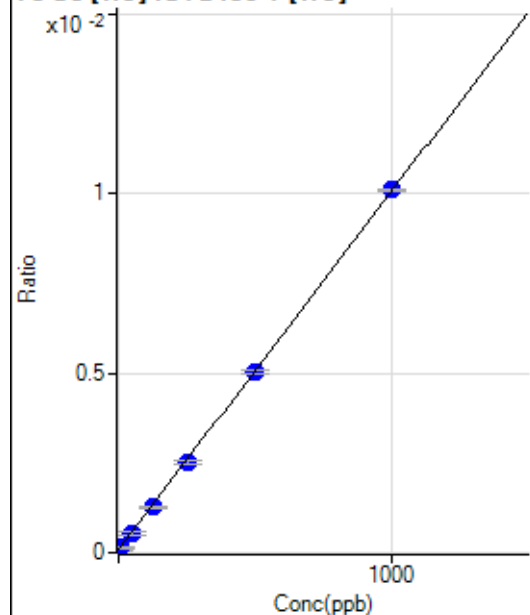
$$R = 0.9988$$

$$DL = 4.673$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	38.00	0.0001	P	19.4
2	☐	0.500	0.584	40.67	0.0001	P	19.3
3	☐	5.000	4.901	60.01	0.0001	P	11.9
4	☐	50.000	44.819	234.02	0.0005	P	14.5
5	☐	125.000	118.032	555.07	0.0013	P	6.7
6	☐	250.000	245.015	1112.16	0.0025	P	4.1
7	☐	500.000	496.330	2238.41	0.0050	P	1.9
8	☐	1000.000	1004.212	4644.24	0.0101	P	0.8
9	☐			37.00	0.0001	P	16.7

$$y = 9.9650E-006 * x + 8.5792E-005$$

$$R = 1.0000$$

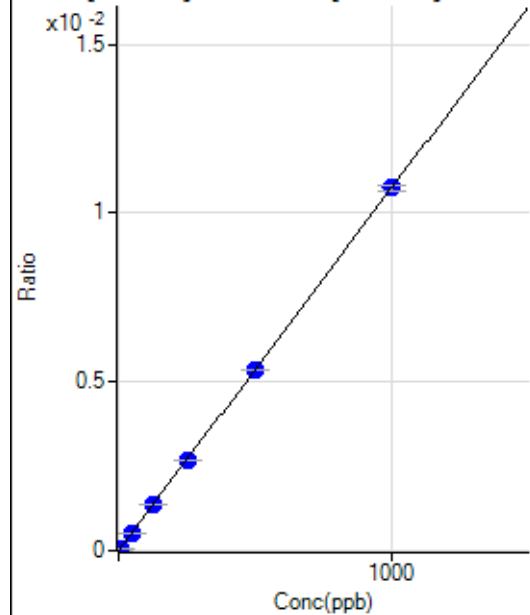
$$DL = 4.999$$

Weight: <None>

Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			2643.00		P	5.9
2	☐			2085.63		P	15.4
3	☐			1955.50		P	7.9
4	☐			1962.16		P	6.7
5	☐			1935.47		P	8.6
6	☐			2135.72		P	9.3
7	☐			1968.84		P	7.6
8	☐			1945.48		P	1.1
9	☐			2219.15		P	6.2

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	12.68	0.0000	P	278.1
2	☒	0.500					
3	☐	5.000	4.971	203.79	0.0001	P	20.8
4	☐	50.000	48.754	1964.81	0.0005	P	4.3
5	☐	125.000	125.979	5028.01	0.0014	P	0.9
6	☐	250.000	250.424	10036.28	0.0027	P	0.4
7	☐	500.000	498.217	20464.25	0.0054	P	0.7
8	☐	1000.000	1000.725	43692.20	0.0107	P	1.7
9	☐			-1.49	0.0000	P	-1579.

$$y = 1.0738\text{E-}005 * x + 3.5457\text{E-}006$$

$$R = 1.0000$$

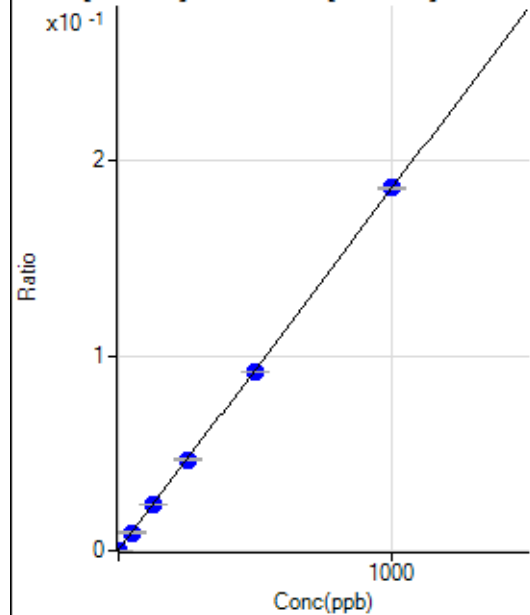
$$DL = 2.755$$

Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			395.56		P	5.4
2	☐			403.35		P	15.9
3	☐			382.23		P	12.5
4	☐			411.12		P	14.5
5	☐			405.57		P	6.2
6	☐			432.23		P	4.9
7	☐			387.79		P	2.6
8	☐			404.45		P	5.4
9	☐			364.45		P	7.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	647.26	0.0002	P	3.5
2	☐	0.100	0.050	688.92	0.0002	P	5.2
3	☐	1.000	0.974	1280.64	0.0004	P	12.4
4	☐	50.000	49.331	34755.04	0.0093	P	1.2
5	☐	125.000	125.314	86785.18	0.0234	P	1.2
6	☐	250.000	251.745	174608.20	0.0468	P	0.9
7	☐	500.000	493.157	350159.20	0.0916	P	0.4
8	☐	1000.000	1002.980	756512.27	0.1861	P	0.3
9	☐			4306.33	0.0012	P	3.5

$$y = 1.8538E-004 * x + 1.7801E-004$$

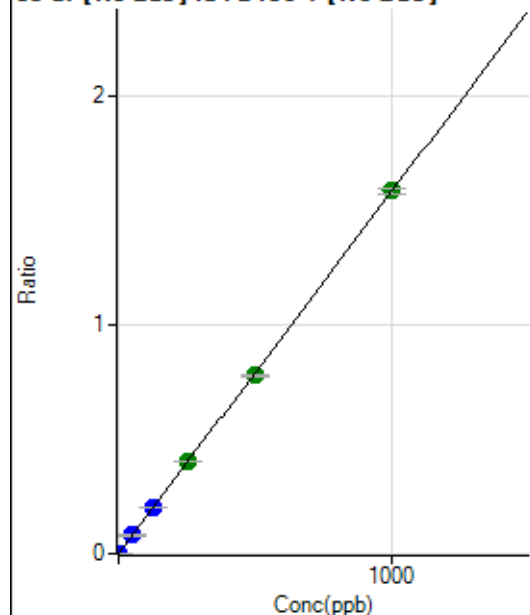
$$R = 1.0000$$

$$DL = 0.1019$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	194.45	0.0001	P	7.9
2	☐	0.100	0.106	811.16	0.0002	P	16.0
3	☐	1.000	0.990	5790.25	0.0016	P	2.2
4	☐	50.000	50.501	297476.17	0.0798	P	0.8
5	☐	125.000	127.520	746536.04	0.2014	P	1.4
6	☐	250.000	253.775	1493688.01	0.4008	A	0.9
7	☐	500.000	492.480	2972588.57	0.7777	A	1.1
8	☐	1000.000	1002.476	6434113.38	1.5829	A	1.5
9	☐			32911.63	0.0091	P	1.2

$$y = 0.0016 * x + 5.3449E-005$$

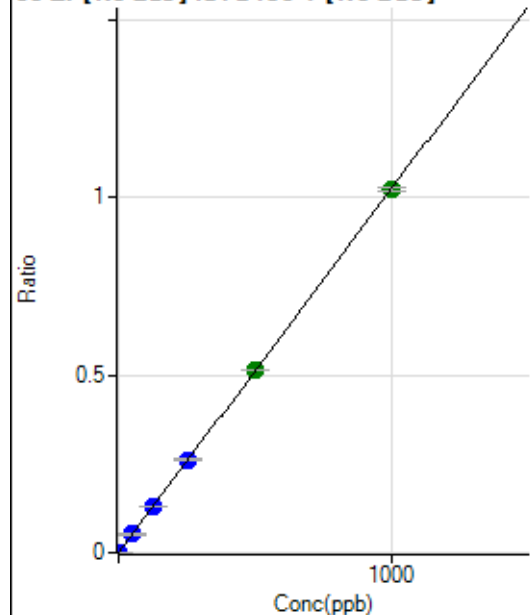
$$R = 1.0000$$

$$DL = 0.008013$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	138.89	0.0000	P	28.9
2	☐	0.100	0.123	602.81	0.0002	P	4.2
3	☐	1.000	0.957	3639.47	0.0010	P	6.8
4	☐	50.000	50.196	191633.99	0.0514	P	1.8
5	☐	125.000	127.506	483862.44	0.1305	P	0.8
6	☐	250.000	255.794	975832.41	0.2618	P	0.8
7	☐	500.000	503.347	1969299.48	0.5152	A	0.2
8	☐	1000.000	996.555	4145694.10	1.0199	A	0.9
9	☐			1233.43	0.0003	P	14.3

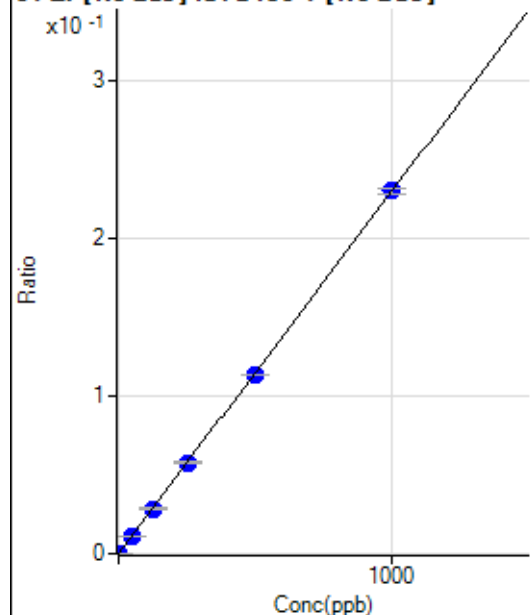
$$y = 0.0010 * x + 3.8276E-005$$

$$R = 1.0000$$

$$DL = 0.0324$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	74.9
2	☐	0.100	0.069	86.11	0.0000	P	31.3
3	☐	1.000	0.930	791.71	0.0002	P	3.5
4	☐	50.000	49.069	41933.17	0.0113	P	3.7
5	☐	125.000	124.471	105772.20	0.0285	P	0.6
6	☐	250.000	251.904	215193.43	0.0577	P	0.7
7	☐	500.000	494.574	433299.55	0.1134	P	0.4
8	☐	1000.000	1002.350	933655.32	0.2297	P	1.5
9	☐			316.68	0.0001	P	14.1

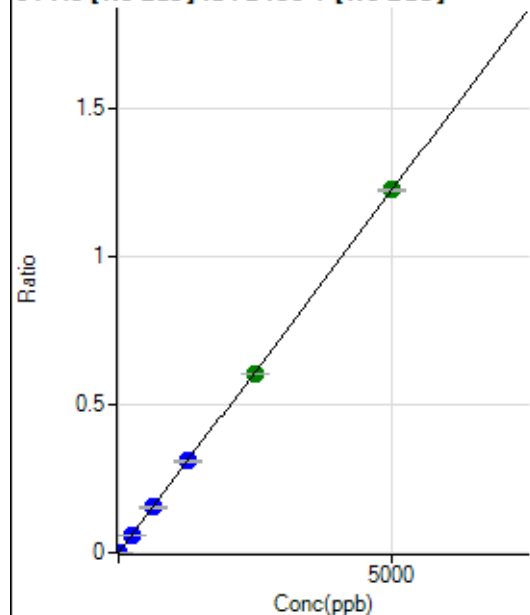
$$y = 2.2917\text{E-}004 * x + 7.6019\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.07456$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	63.89	0.0000	P	42.2
2	☐	0.500	0.490	505.58	0.0001	P	17.9
3	☐	5.000	4.774	4250.78	0.0012	P	2.5
4	☐	250.000	247.457	225906.64	0.0606	P	3.2
5	☐	625.000	630.199	572070.84	0.1543	P	2.1
6	☐	1250.000	1264.564	1154289.15	0.3097	P	0.7
7	☐	2500.000	2471.472	2313648.51	0.6053	A	0.9
8	☐	5000.000	5010.100	4987576.46	1.2270	A	0.4
9	☐			2669.77	0.0007	P	3.5

$$y = 2.4489\text{E-}004 * x + 1.7602\text{E-}005$$

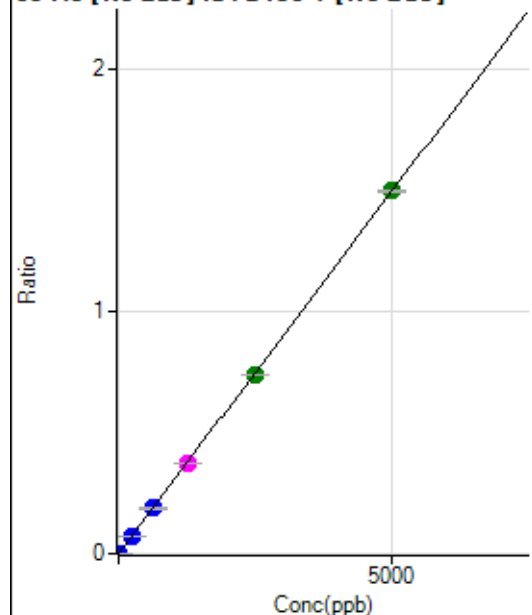
$$R = 1.0000$$

$$DL = 0.0911$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	19.44	0.0000	P	49.7
2	☐	0.500	0.482	550.03	0.0001	P	12.3
3	☐	5.000	4.776	5139.98	0.0014	P	0.8
4	☐	250.000	246.408	274792.24	0.0737	P	2.5
5	☐	625.000	626.675	694971.84	0.1875	P	1.8
6	☐	1250.000	1254.523	1398946.41	0.3753	M	0.7
7	☐	2500.000	2469.455	2824340.21	0.7388	A	0.7
8	☐	5000.000	5014.112	6097663.72	1.5002	A	0.8
9	☐			3861.74	0.0011	P	10.4

$$y = 2.9918\text{E-}004 * x + 5.3534\text{E-}006$$

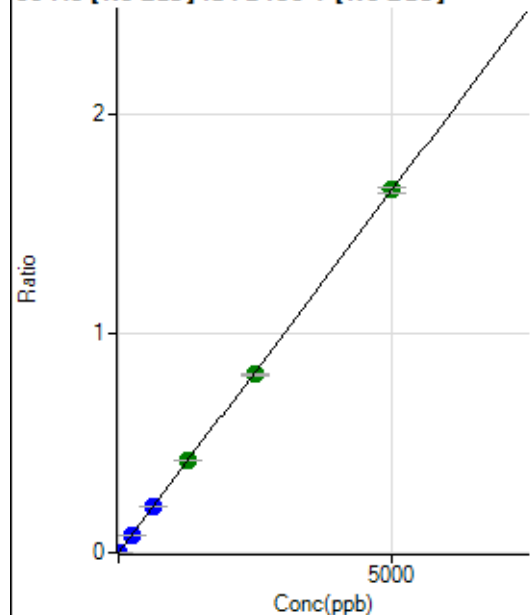
$$R = 1.0000$$

$$DL = 0.02668$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	83.33	0.0000	P	17.0
2	☐	0.500	0.494	683.37	0.0002	P	7.0
3	☐	5.000	4.961	5937.56	0.0017	P	5.3
4	☐	250.000	249.544	306902.15	0.0823	P	2.0
5	☐	625.000	632.487	773421.00	0.2087	P	1.4
6	☐	1250.000	1269.162	1560436.46	0.4187	A	0.5
7	☐	2500.000	2465.452	3108744.06	0.8133	A	0.8
8	☐	5000.000	5011.571	6719054.66	1.6531	A	1.5
9	☐			4656.47	0.0013	P	5.4

$$y = 3.2986\text{E-}004 * x + 2.2912\text{E-}005$$

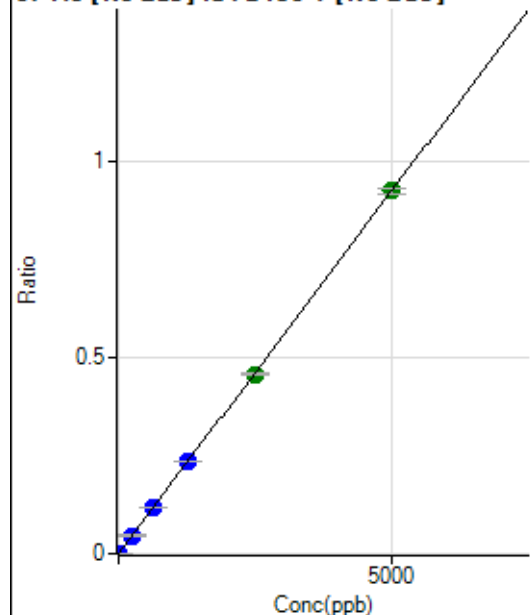
$$R = 1.0000$$

$$DL = 0.03543$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	2.78	0.0000	P	173.2
2	☐	0.500	0.527	361.13	0.0001	P	29.0
3	☐	5.000	4.854	3206.01	0.0009	P	8.0
4	☐	250.000	251.932	173338.83	0.0465	P	3.6
5	☐	625.000	632.675	433015.05	0.1168	P	1.3
6	☐	1250.000	1271.191	874723.06	0.2347	P	1.7
7	☐	2500.000	2477.630	1748620.64	0.4575	A	0.9
8	☐	5000.000	5004.832	3755832.59	0.9241	A	1.4
9	☐			2300.25	0.0006	P	3.1

$$y = 1.8463\text{E-}004 * x + 7.7298\text{E-}007$$

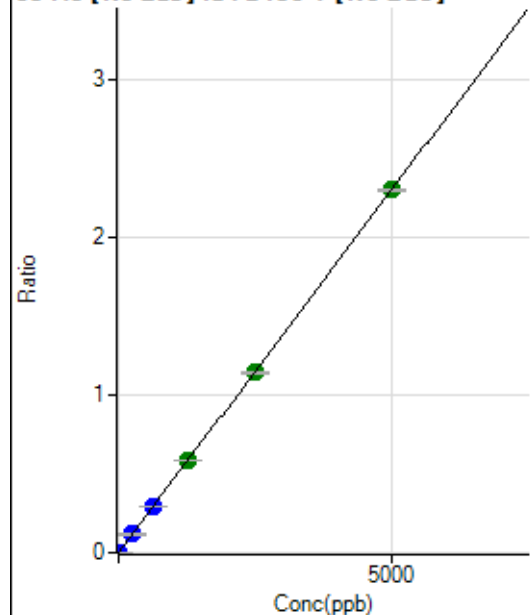
$$R = 1.0000$$

$$DL = 0.02175$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	13.89	0.0000	P	34.9
2	☐	0.500	0.488	838.94	0.0002	P	6.2
3	☐	5.000	4.986	8202.62	0.0023	P	6.4
4	☐	250.000	255.173	436745.76	0.1172	P	2.9
5	☐	625.000	641.218	1091573.50	0.2945	P	0.9
6	☐	1250.000	1277.262	2186239.81	0.5866	A	0.8
7	☐	2500.000	2480.189	4353812.21	1.1390	A	0.8
8	☐	5000.000	5000.804	9334616.87	2.2966	A	0.9
9	☐			6248.78	0.0017	P	7.0

$$y = 4.5924\text{E-}004 * x + 3.8232\text{E-}006$$

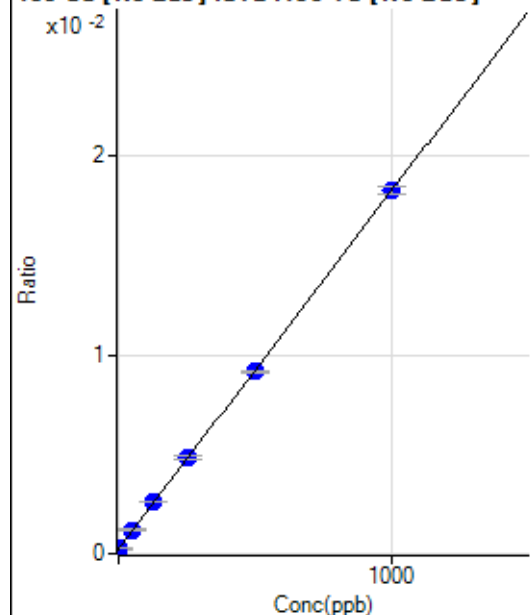
$$R = 1.0000$$

$$DL = 0.008721$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	716.70	0.0002	P	8.1
2	☐	0.100	0.872	783.38	0.0002	P	5.3
3	☐	1.000	2.143	813.94	0.0003	P	8.7
4	☐	50.000	53.809	3789.53	0.0012	P	5.4
5	☐	125.000	130.339	8141.52	0.0026	P	0.5
6	☐	250.000	256.488	15481.33	0.0049	P	4.7
7	☐	500.000	495.801	30063.90	0.0092	P	0.8
8	☐	1000.000	999.618	63839.85	0.0182	P	2.1
9	☐			841.72	0.0003	P	3.2

$$y = 1.8008\text{E-}005 * x + 2.3192\text{E-}004$$

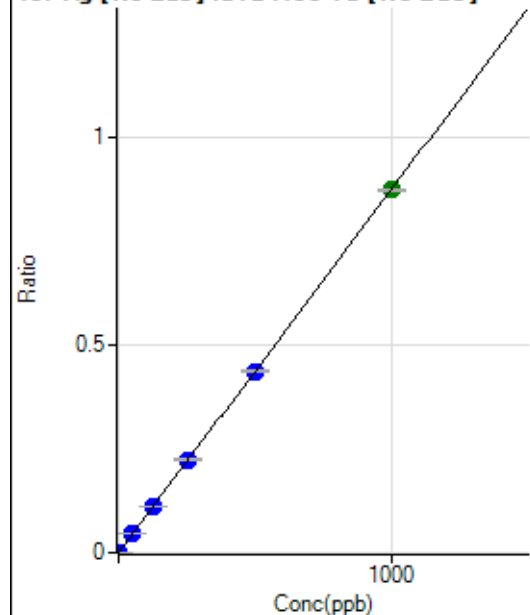
$$R = 1.0000$$

$$DL = 3.133$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	19.45	0.0000	P	107.7
2	☒	0.100					
3	☐	1.000	0.986	2608.66	0.0009	P	5.5
4	☐	50.000	50.872	140755.31	0.0446	P	1.4
5	☐	125.000	128.422	355335.39	0.1126	P	0.4
6	☐	250.000	256.659	718161.09	0.2250	P	1.7
7	☐	500.000	498.760	1434588.04	0.4371	P	1.1
8	☐	1000.000	998.484	3064396.79	0.8751	A	0.7
9	☐			997.29	0.0003	P	8.5

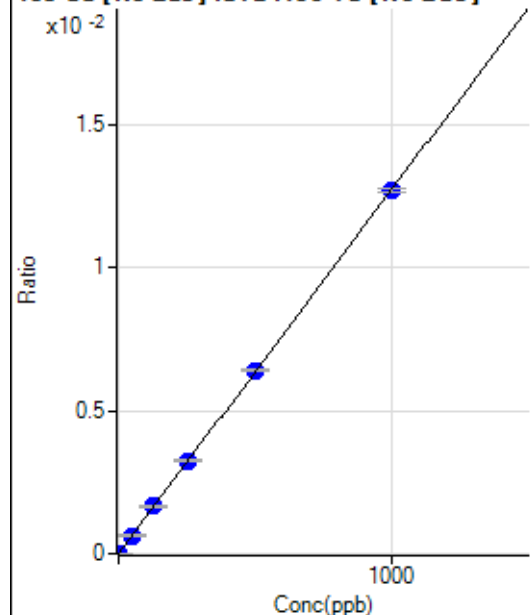
$$y = 8.7645\text{E-}004 * x + 6.3135\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.02328$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	4.17	0.0000	P	99.5
2	☐	0.100	0.136	9.72	0.0000	P	65.2
3	☐	1.000	0.882	37.50	0.0000	P	33.8
4	☐	50.000	49.828	2002.95	0.0006	P	5.1
5	☐	125.000	130.320	5231.60	0.0017	P	4.9
6	☐	250.000	255.084	10352.59	0.0032	P	2.3
7	☐	500.000	502.150	20946.56	0.0064	P	1.0
8	☐	1000.000	996.998	44371.13	0.0127	P	1.1
9	☐			50.00	0.0000	P	25.0

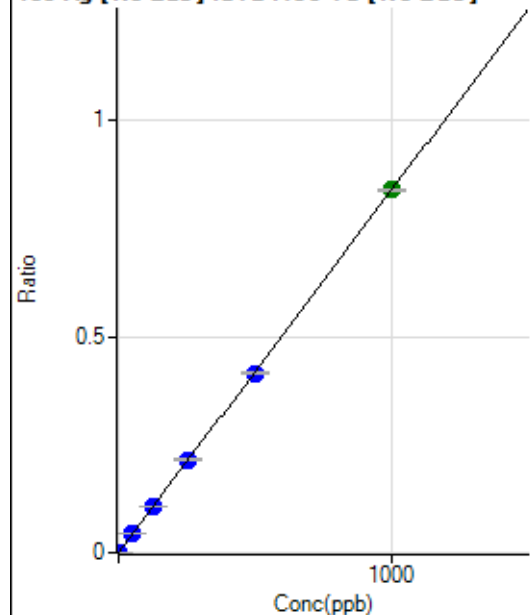
$$y = 1.2708\text{E-}005 * x + 1.3430\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.3153$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	27.78	0.0000	P	46.3
2	☐	0.100	0.095	280.57	0.0001	P	16.5
3	☐	1.000	1.022	2591.99	0.0009	P	9.2
4	☐	50.000	51.111	135257.32	0.0429	P	1.0
5	☐	125.000	128.691	340550.65	0.1079	P	0.4
6	☐	250.000	255.250	683117.61	0.2140	P	1.6
7	☐	500.000	495.160	1362116.91	0.4151	P	1.3
8	☐	1000.000	1000.591	2936894.03	0.8387	A	0.4
9	☐			908.39	0.0003	P	9.0

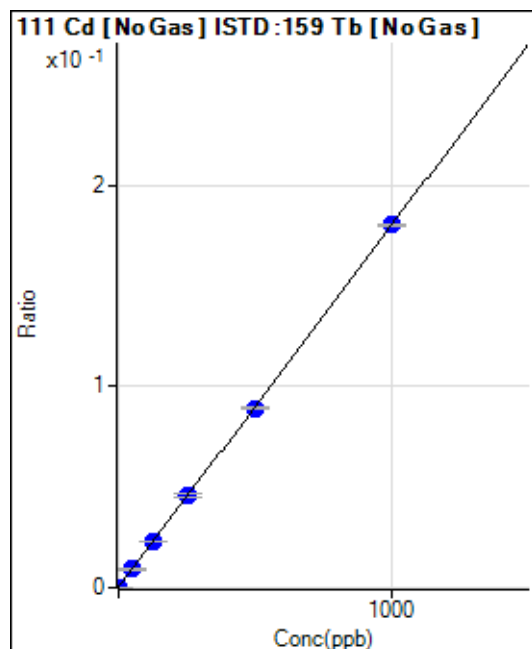
$$y = 8.3823\text{E-}004 * x + 8.9966\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.01492$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	515.44	0.0002	P	9.7
2	☒	0.100					
3	☐	1.000	1.074	1082.41	0.0004	P	3.9
4	☐	50.000	49.902	28892.36	0.0092	P	2.4
5	☐	125.000	126.621	72506.06	0.0230	P	1.4
6	☐	250.000	253.375	146191.30	0.0458	P	2.8
7	☐	500.000	495.030	293109.26	0.0893	P	1.7
8	☐	1000.000	1001.443	632099.91	0.1805	P	0.4
9	☐			884.77	0.0003	P	4.9

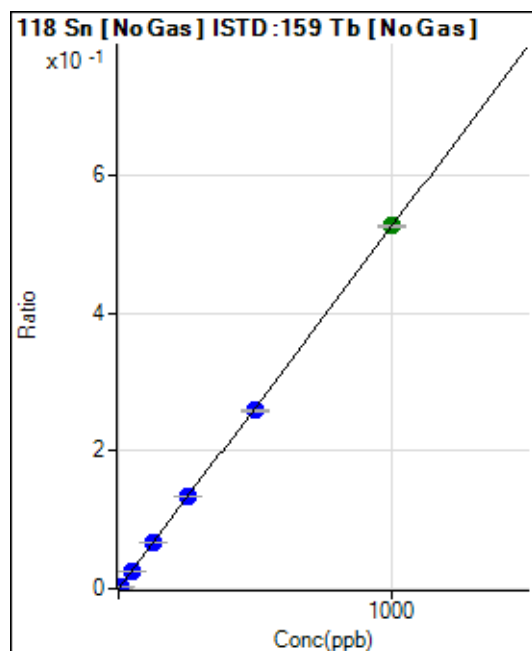
$$y = 1.8009\text{E-}004 * x + 1.6681\text{E-}004$$

$$R = 1.0000$$

$$DL = 0.2686$$

Weight: <None>

Min Conc: 0



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	155.56	0.0001	P	20.9
2	☐	0.500	0.485	966.73	0.0003	P	5.2
3	☐	5.000	4.839	7769.05	0.0026	P	5.7
4	☐	50.000	49.652	82526.20	0.0261	P	0.1
5	☐	125.000	125.563	208466.52	0.0660	P	1.0
6	☐	250.000	255.376	428646.81	0.1343	P	1.0
7	☐	500.000	493.067	850535.11	0.2592	P	1.1
8	☐	1000.000	1002.071	1844172.61	0.5267	A	0.8
9	☐			1855.73	0.0006	P	7.1

$$y = 5.2552\text{E-}004 * x + 5.0368\text{E-}005$$

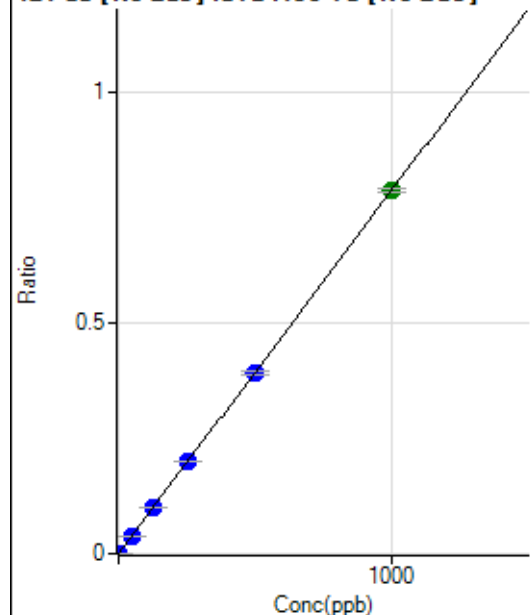
$$R = 1.0000$$

$$DL = 0.0602$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	30.56	0.0000	P	31.7
2	☐	0.200	0.182	486.13	0.0002	P	0.9
3	☐	2.000	2.032	4828.76	0.0016	P	4.4
4	☐	50.000	49.817	123883.05	0.0393	P	2.0
5	☐	125.000	126.591	314829.46	0.0997	P	0.8
6	☐	250.000	255.322	642174.04	0.2011	P	0.9
7	☐	500.000	498.270	1288084.12	0.3925	P	1.3
8	☐	1000.000	999.345	2756494.14	0.7872	A	1.0
9	☐			2491.96	0.0008	P	8.3

$$y = 7.8772\text{E-}004 * x + 9.8898\text{E-}006$$

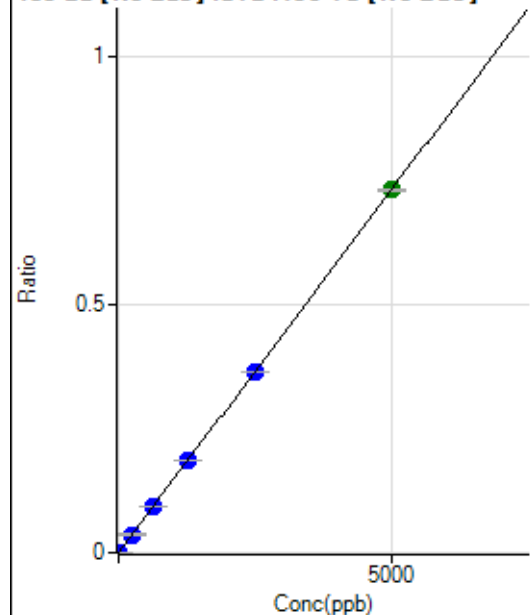
$$R = 1.0000$$

$$DL = 0.01195$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	43.6
2	☐	1.000	0.976	463.91	0.0001	P	14.3
3	☐	10.000	10.053	4417.51	0.0015	P	10.7
4	☐	250.000	250.817	116021.81	0.0368	P	1.3
5	☐	625.000	632.437	292538.53	0.0927	P	1.4
6	☐	1250.000	1265.447	592074.43	0.1854	P	0.8
7	☐	2500.000	2491.550	1198208.95	0.3651	P	0.8
8	☐	5000.000	4999.393	2565326.38	0.7326	A	0.8
9	☐			4350.80	0.0014	P	3.9

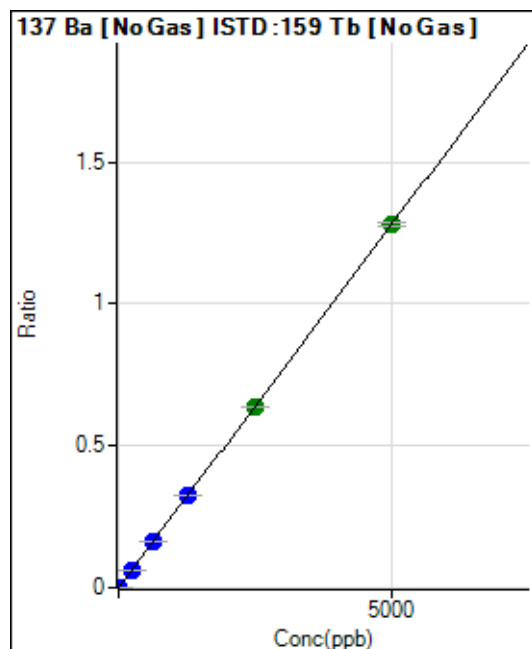
$$y = 1.4654\text{E-}004 * x + 3.5964\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.03208$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	36.11	0.0000	P	35.3
2	☐	1.000	0.888	755.60	0.0002	P	4.4
3	☐	10.000	9.792	7535.63	0.0025	P	7.8
4	☐	250.000	249.792	201718.93	0.0639	P	1.4
5	☐	625.000	636.218	513791.97	0.1628	P	0.6
6	☐	1250.000	1271.681	1038663.69	0.3253	P	0.9
7	☐	2500.000	2490.971	2091326.63	0.6372	A	0.6
8	☐	5000.000	4997.703	4476620.89	1.2784	A	0.9
9	☐			7780.21	0.0025	P	2.4

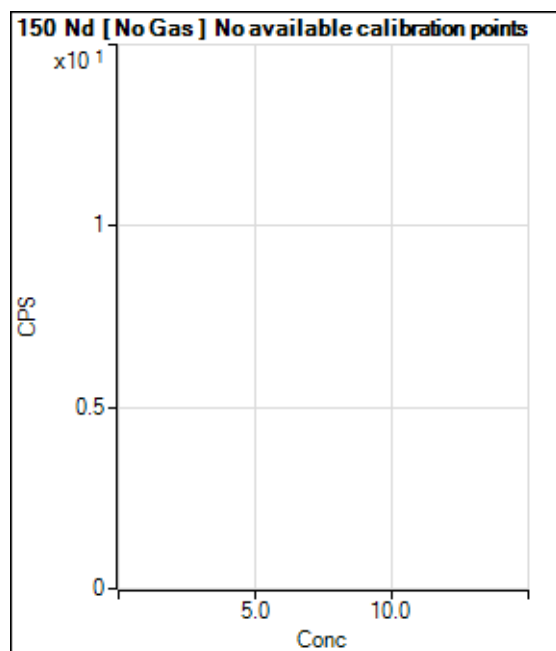
$$y = 2.5580\text{E-}004 * x + 1.1681\text{E-}005$$

$$R = 1.0000$$

$$DL = 0.04841$$

Weight: <None>

Min Conc: 0



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			8.89		P	43.3
2	☐			8.89		P	43.3
3	☐			6.67		P	173.2
4	☐			15.56		P	89.2
5	☐			17.78		P	114.6
6	☐			20.00		P	57.7
7	☐			51.11		P	39.9
8	☐			73.34		P	18.2
9	☐			22.22		P	45.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			0.00		P	
2	☐			2.22		P	173.2
3	☐			0.00		P	
4	☐			0.00		P	
5	☐			0.00		P	
6	☐			3.33		P	100.1
7	☐			5.56		P	34.7
8	☐			5.56		P	91.6
9	☐			5.56		P	34.7

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			19.44		P	49.5
2	☐			13.89		P	34.7
3	☐			22.22		P	21.6
4	☐			13.89		P	69.3
5	☐			30.56		P	41.7
6	☐			38.89		P	24.7
7	☐			44.44		P	28.6
8	☐			75.00		P	22.2
9	☐			180.56		P	32.4

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			3.33		P	100.1
2	☐			1.11		P	173.2
3	☐			4.45		P	86.6
4	☐			5.55		P	69.3
5	☐			2.22		P	86.6
6	☐			10.00		P	66.7
7	☐			20.00		P	28.9
8	☐			21.11		P	24.1
9	☐			82.22		P	10.2

160 Gd [No Gas] Noavailable calibration poin_

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			22.22		P	21.6
2	☐			30.56		P	41.7
3	☐			52.78		P	32.9
4	☐			36.11		P	58.1
5	☐			50.00		P	33.3
6	☐			41.67		P	20.0
7	☐			25.00		P	57.7
8	☐			52.78		P	45.6
9	☐			219.45		P	7.9

160 Gd [He] No available calibration points

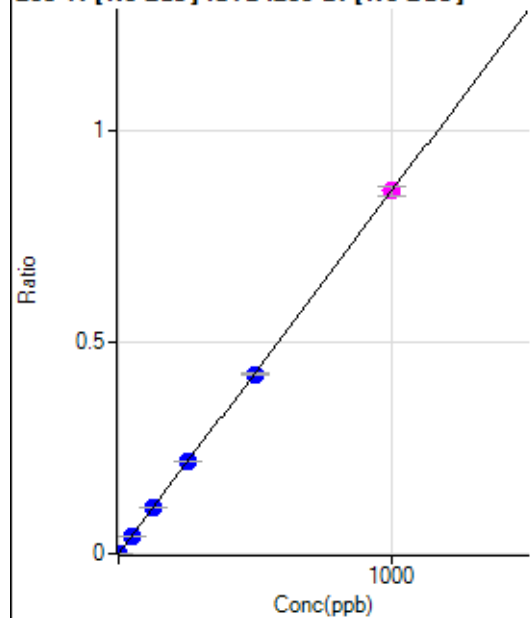
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			10.00		P	33.3
2	☐			10.00		P	57.7
3	☐			10.00		P	57.7
4	☐			14.44		P	35.3
5	☐			17.78		P	21.7
6	☐			13.33		P	NaN
7	☐			26.67		P	45.1
8	☐			18.89		P	53.9
9	☐			91.11		P	5.6

164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			16.67		P	100.0
2	☐			16.67		P	50.0
3	☐			11.11		P	43.3
4	☐			30.56		P	78.7
5	☐			30.56		P	78.7
6	☐			25.00		P	57.7
7	☐			19.44		P	137.8
8	☐			22.22		P	21.6
9	☐			19.44		P	49.5

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐			11.11		P	17.3
2	☐			5.56		P	34.7
3	☐			8.89		P	78.1
4	☐			4.44		P	43.4
5	☐			7.78		P	49.5
6	☐			7.78		P	65.5
7	☐			13.33		P	43.3
8	☐			11.11		P	62.5
9	☐			23.33		P	37.8

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	11.11	0.0000	P	113.8
2	☐	0.100	0.109	177.78	0.0001	P	29.1
3	☐	1.000	1.002	1508.46	0.0009	P	6.3
4	☐	50.000	49.699	77497.44	0.0425	P	0.7
5	☐	125.000	125.762	198059.69	0.1076	P	0.6
6	☐	250.000	255.111	405510.10	0.2182	P	0.2
7	☐	500.000	495.579	815374.43	0.4239	P	1.4
8	☐	1000.000	1000.853	1768654.40	0.8561	M	2.4
9	☐			688.93	0.0004	P	21.4

$$y = 8.5541\text{E-}004 * x + 6.1611\text{E-}006$$

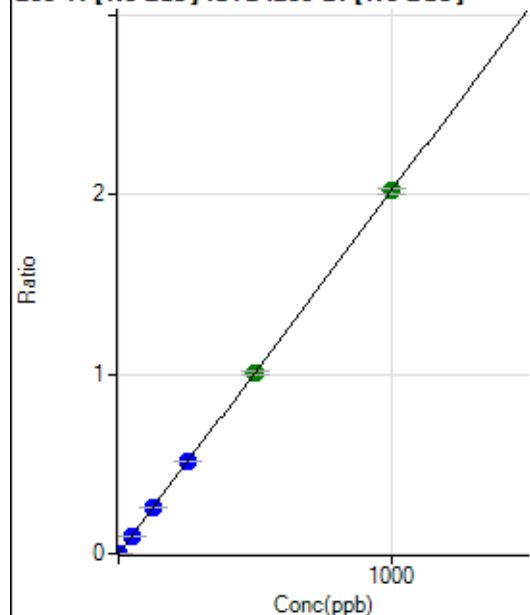
$$R = 1.0000$$

$$DL = 0.02458$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	61.12	0.0000	P	75.4
2	☐	0.100	0.096	411.13	0.0002	P	6.2
3	☐	1.000	0.949	3414.43	0.0020	P	6.7
4	☐	50.000	49.367	181828.01	0.0998	P	1.8
5	☐	125.000	125.223	465809.95	0.2530	P	1.0
6	☐	250.000	253.886	953224.86	0.5130	P	0.6
7	☐	500.000	498.657	1937734.64	1.0075	A	2.2
8	☐	1000.000	999.704	4172686.72	2.0198	A	1.3
9	☐			1927.97	0.0011	P	13.0

$$y = 0.0020 * x + 3.4462E-005$$

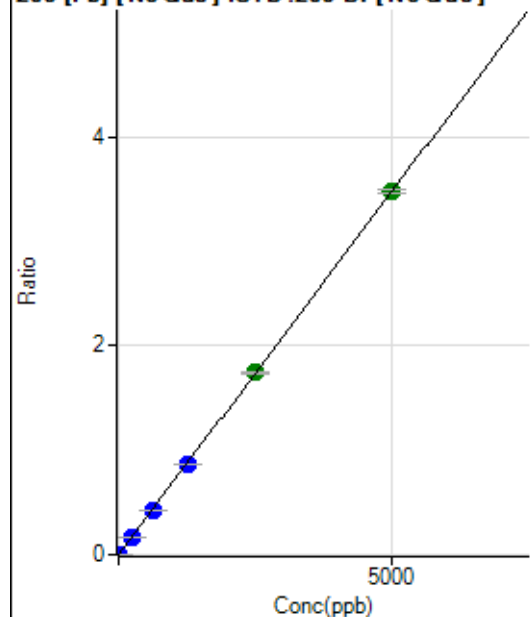
$$R = 1.0000$$

$$DL = 0.03857$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	135.19	0.0001	P	11.3
2	☐	0.100	0.072	225.93	0.0001	P	14.5
3	☐	1.000	0.967	1309.35	0.0007	P	1.2
4	☐	250.000	243.721	308632.89	0.1693	P	1.2
5	☐	625.000	612.008	782649.04	0.4251	P	0.5
6	☐	1250.000	1242.762	1603877.52	0.8632	P	0.6
7	☐	2500.000	2506.851	3348933.29	1.7411	A	1.4
8	☐	5000.000	5000.322	7174577.24	3.4729	A	1.2
9	☐			5588.33	0.0032	P	3.1

$$y = 6.9452E-004 * x + 7.5881E-005$$

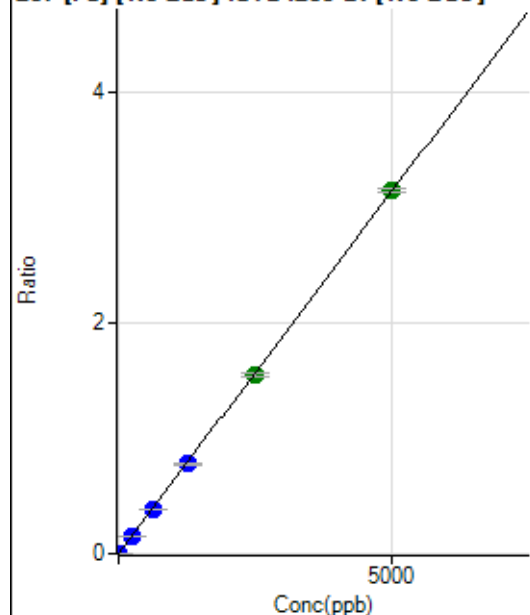
$$R = 1.0000$$

$$DL = 0.03713$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	109.26	0.0001	P	16.4
2	☐	0.100	0.106	229.64	0.0001	P	13.9
3	☐	1.000	0.899	1094.51	0.0006	P	2.8
4	☐	250.000	242.503	277399.90	0.1522	P	1.8
5	☐	625.000	607.062	701345.36	0.3809	P	0.6
6	☐	1250.000	1237.077	1442217.72	0.7762	P	1.0
7	☐	2500.000	2482.411	2996077.79	1.5576	A	2.0
8	☐	5000.000	5014.643	6499738.98	3.1463	A	1.1
9	☐			4901.02	0.0028	P	3.2

$$y = 6.2742\text{E-}004 * x + 6.1344\text{E-}005$$

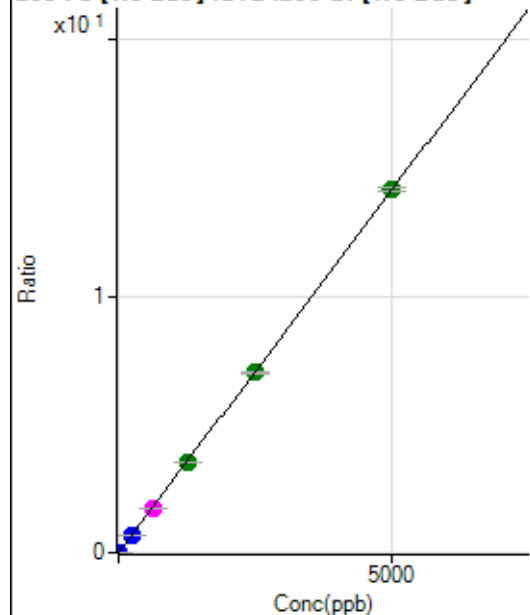
$$R = 1.0000$$

$$DL = 0.04813$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	0.000	0.000	533.35	0.0003	P	13.1
2	☐	0.100	0.085	972.26	0.0005	P	4.3
3	☐	1.000	0.951	5217.18	0.0030	P	4.0
4	☐	250.000	243.727	1254567.24	0.6884	P	1.0
5	☐	625.000	613.158	3187443.71	1.7313	M	0.6
6	☐	1250.000	1255.475	6586414.45	3.5447	A	0.2
7	☐	2500.000	2485.149	13495589.36	7.0162	A	0.3
8	☐	5000.000	5007.851	29206982.08	14.1382	A	1.0
9	☐			22758.34	0.0129	P	2.0

$$y = 0.0028 * x + 2.9925\text{E-}004$$

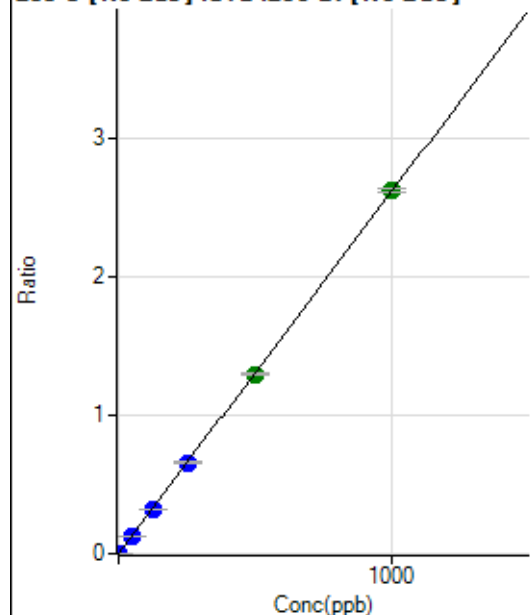
$$R = 1.0000$$

$$DL = 0.04176$$

Weight: <None>

Min Conc: 0

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



	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	0.000	0.000	33.33	0.0000	P	23.8
2	☐	0.100	0.086	438.91	0.0002	P	12.2
3	☐	1.000	0.927	4270.26	0.0024	P	4.8
4	☐	50.000	48.532	231301.20	0.1269	P	1.0
5	☐	125.000	122.631	590300.53	0.3207	P	0.7
6	☐	250.000	251.274	1220700.10	0.6570	P	0.9
7	☐	500.000	495.439	2491699.06	1.2954	A	1.3
8	☐	1000.000	1002.332	5413933.37	2.6207	A	0.9
9	☐			897.28	0.0005	P	17.4

$$y = 0.0026 * x + 1.8662E-005$$

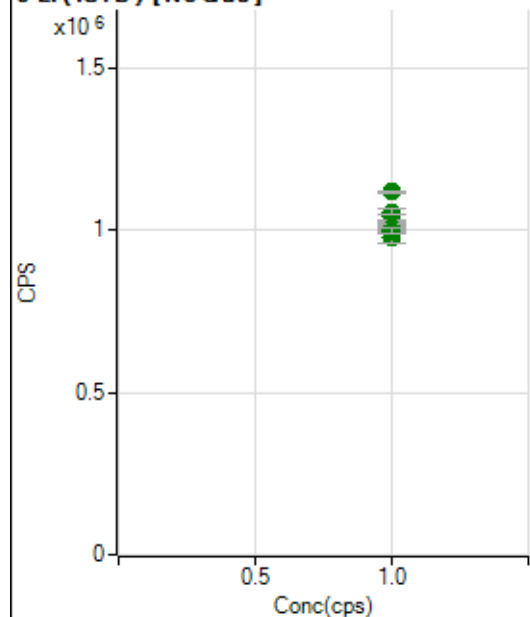
$$R = 1.0000$$

$$DL = 0.005101$$

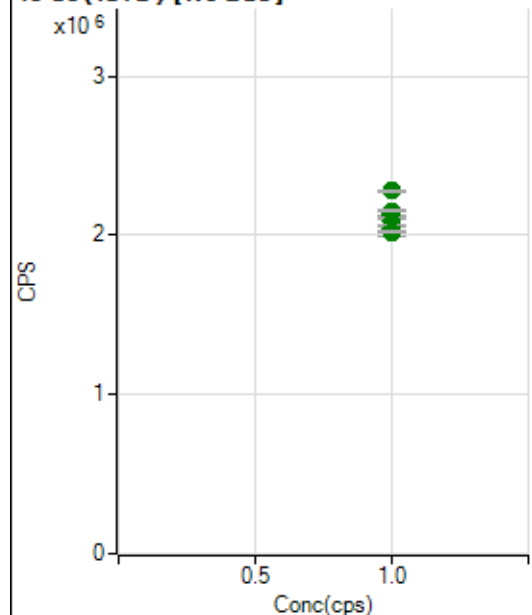
Weight: <None>

Min Conc: 0

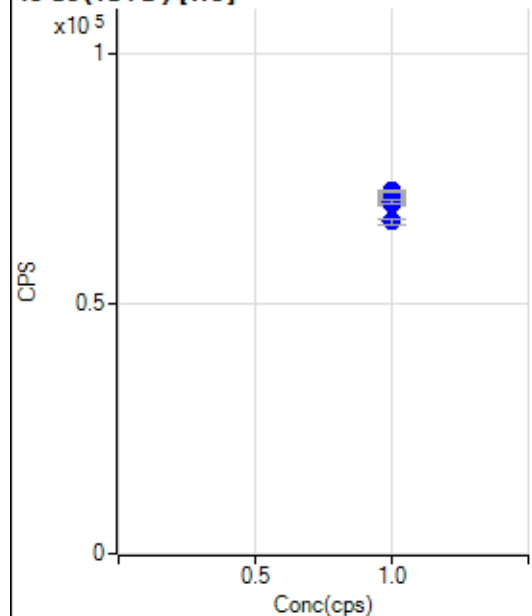
6 Li (ISTD) [No Gas]



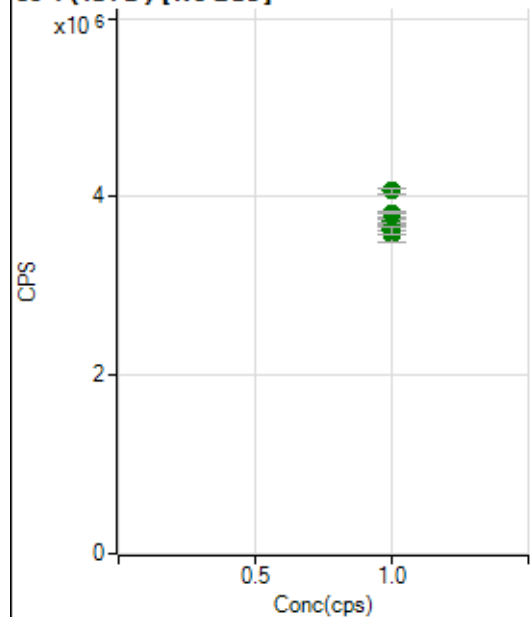
	R _{ct}	Conc.	Calc Conc.	CPS	Ratio	De _t	RSD
1	☐	1.000		999035.38		A	0.6
2	☐	1.000		1004995.51		A	1.6
3	☐	1.000		977918.50		A	3.5
4	☐	1.000		1019416.38		A	1.4
5	☐	1.000		1024092.64		A	0.1
6	☐	1.000		1042480.97		A	1.6
7	☐	1.000		1058193.96		A	1.8
8	☐	1.000		1119403.40		A	0.6
9	☐	1.000		999564.35		A	1.3

45 Sc (ISTD) [No Gas]

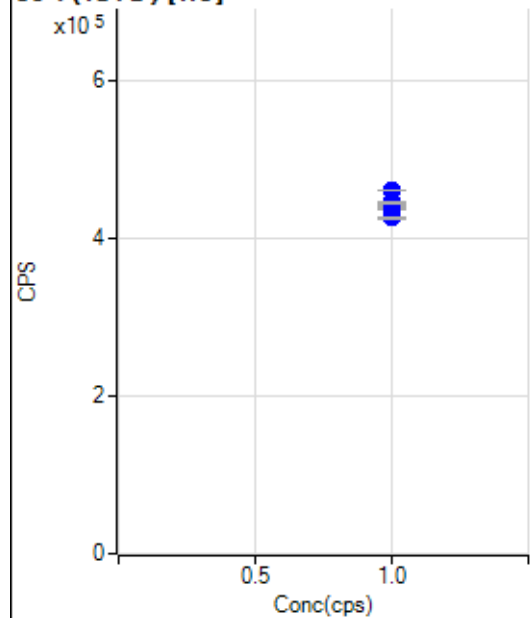
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2054278.13		A	0.4
2	☐	1.000		2125727.26		A	0.5
3	☐	1.000		2043915.61		A	5.4
4	☐	1.000		2085620.54		A	1.7
5	☐	1.000		2136256.60		A	2.1
6	☐	1.000		2129368.30		A	1.9
7	☐	1.000		2151469.17		A	0.7
8	☐	1.000		2278524.84		A	0.7
9	☐	1.000		2022852.43		A	1.0

45 Sc (ISTD) [He]

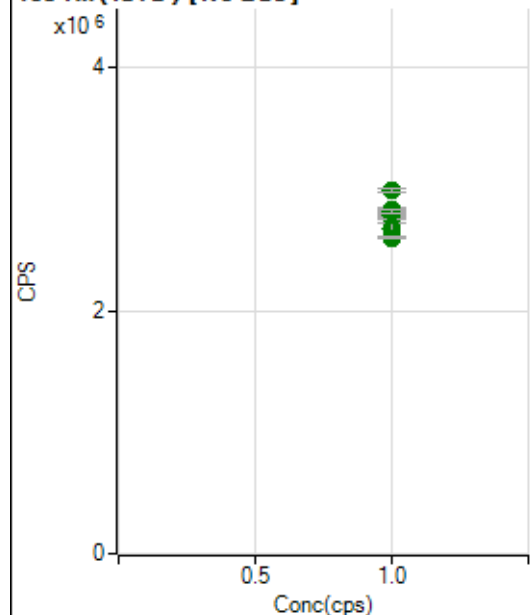
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		71062.43		P	0.2
2	☐	1.000		71604.81		P	0.9
3	☐	1.000		71475.56		P	0.7
4	☐	1.000		69925.84		P	0.2
5	☐	1.000		70088.76		P	0.8
6	☐	1.000		71055.89		P	0.4
7	☐	1.000		70324.44		P	1.0
8	☐	1.000		72612.22		P	0.5
9	☐	1.000		66441.83		P	1.3

89 Y (ISTD) [No Gas]

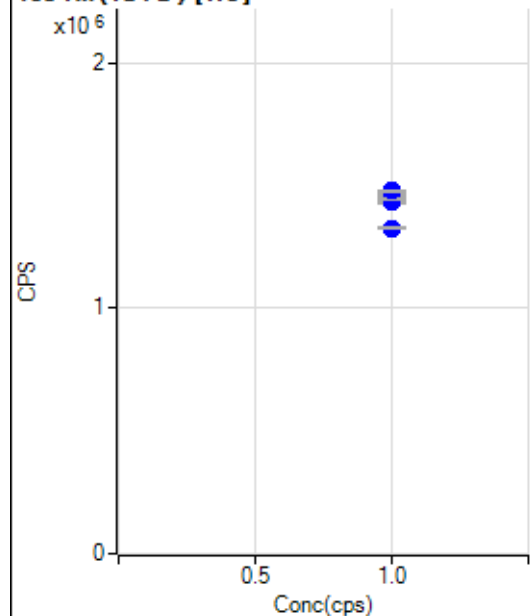
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3636043.56		A	1.1
2	☐	1.000		3678325.05		A	0.3
3	☐	1.000		3583856.79		A	5.2
4	☐	1.000		3728546.02		A	2.4
5	☐	1.000		3707280.33		A	1.9
6	☐	1.000		3727253.63		A	0.9
7	☐	1.000		3822612.55		A	0.7
8	☐	1.000		4064898.10		A	1.4
9	☐	1.000		3616928.24		A	2.5

89 Y (ISTD) [He]

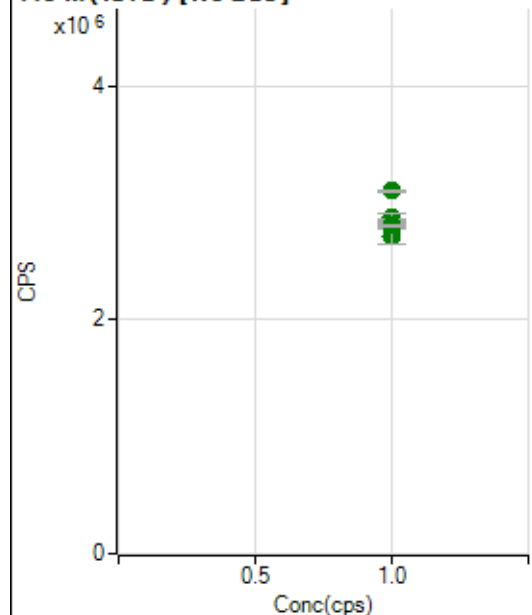
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		442630.76		P	0.5
2	☐	1.000		444205.19		P	0.8
3	☐	1.000		445819.54		P	0.2
4	☐	1.000		439724.44		P	1.0
5	☐	1.000		439721.20		P	0.6
6	☐	1.000		440139.47		P	0.9
7	☐	1.000		444885.94		P	0.5
8	☐	1.000		460156.79		P	0.1
9	☐	1.000		426334.84		P	0.6

103 Rh (ISTD) [No Gas]

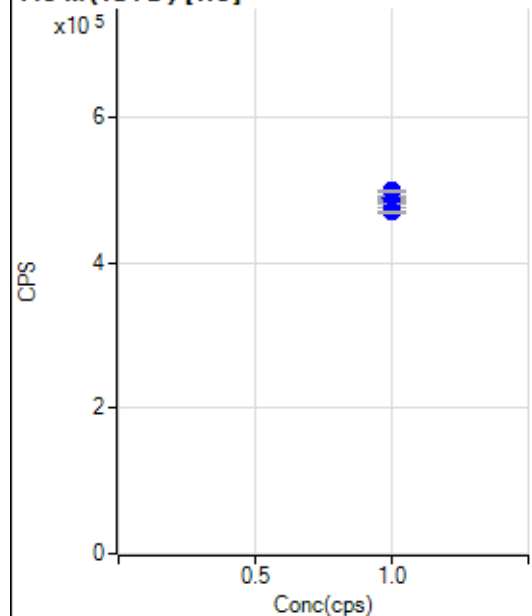
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2753640.49		A	1.6
2	☐	1.000		2776612.08		A	1.2
3	☐	1.000		2680211.20		A	6.5
4	☐	1.000		2783692.77		A	1.3
5	☐	1.000		2829063.15		A	1.0
6	☐	1.000		2779885.70		A	1.9
7	☐	1.000		2818068.70		A	0.9
8	☐	1.000		2988078.54		A	1.1
9	☐	1.000		2601576.68		A	0.7

103 Rh (ISTD) [He]

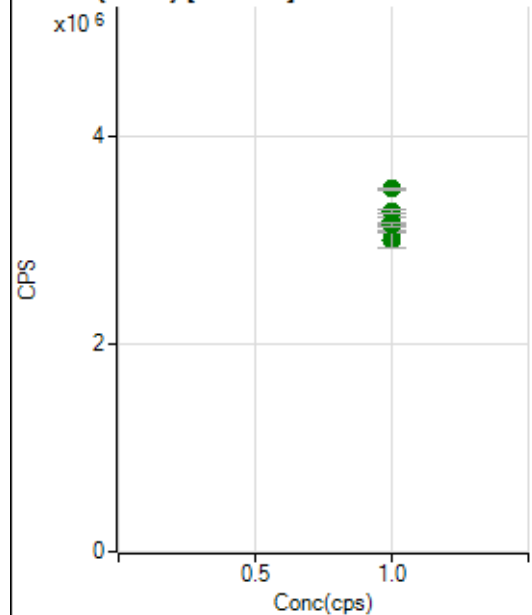
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1442348.54		P	0.6
2	☐	1.000		1450079.20		P	0.5
3	☐	1.000		1463384.27		P	0.6
4	☐	1.000		1437409.75		P	1.4
5	☐	1.000		1443335.50		P	0.4
6	☐	1.000		1436722.27		P	0.7
7	☐	1.000		1444915.58		P	0.4
8	☐	1.000		1478633.76		P	0.7
9	☐	1.000		1325884.02		P	0.7

115 In (ISTD) [No Gas]

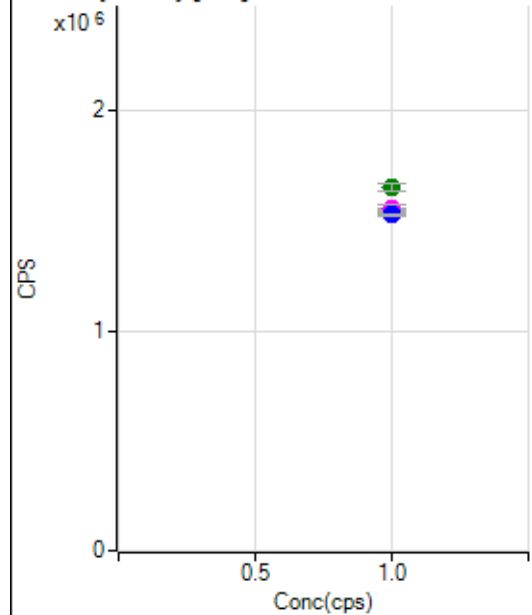
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2782004.59		A	0.8
2	☐	1.000		2805864.01		A	1.4
3	☐	1.000		2711131.55		A	5.0
4	☐	1.000		2828595.82		A	0.6
5	☐	1.000		2831516.85		A	0.4
6	☐	1.000		2853407.71		A	0.7
7	☐	1.000		2880348.29		A	1.7
8	☐	1.000		3100346.29		A	0.5
9	☐	1.000		2804923.73		A	0.3

115 In (ISTD) [He]

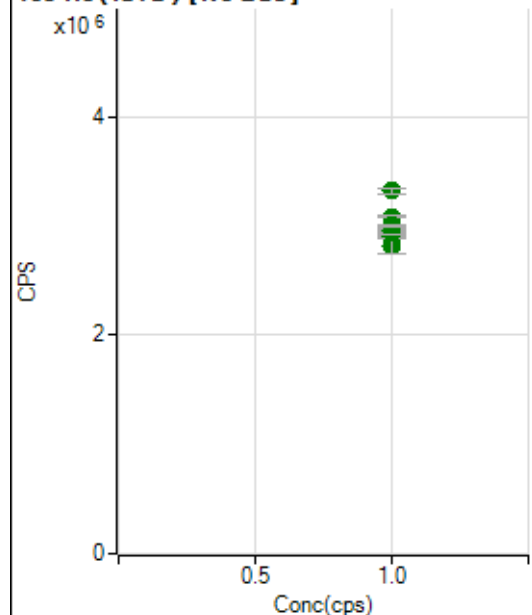
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		483066.45		P	0.3
2	☐	1.000		487365.27		P	1.0
3	☐	1.000		489000.06		P	1.1
4	☐	1.000		480903.68		P	1.4
5	☐	1.000		481745.68		P	0.4
6	☐	1.000		485006.37		P	0.4
7	☐	1.000		481749.43		P	0.3
8	☐	1.000		499531.19		P	0.6
9	☐	1.000		470444.37		P	0.6

159 Tb (ISTD) [No Gas]

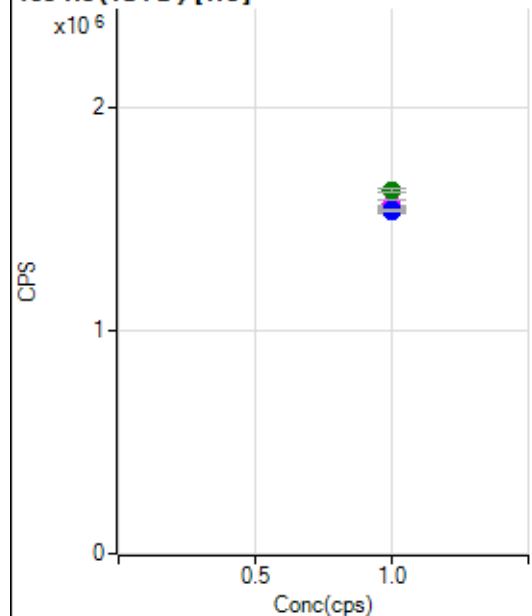
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		3091189.50		A	0.8
2	☐	1.000		3164315.16		A	0.6
3	☐	1.000		3001141.10		A	5.0
4	☐	1.000		3156666.72		A	1.4
5	☐	1.000		3156780.61		A	1.0
6	☐	1.000		3193181.51		A	2.0
7	☐	1.000		3282000.16		A	1.1
8	☐	1.000		3501587.20		A	0.7
9	☐	1.000		3156108.77		A	1.4

159 Tb (ISTD) [He]

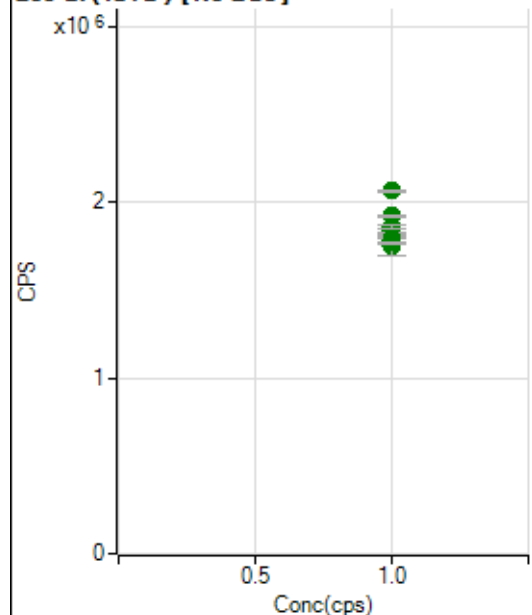
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1540784.82		P	1.1
2	☐	1.000		1542097.77		M	0.5
3	☐	1.000		1548254.86		M	0.9
4	☐	1.000		1544738.61		P	0.8
5	☐	1.000		1544517.58		M	0.9
6	☐	1.000		1545224.91		M	1.4
7	☐	1.000		1561899.77		M	1.3
8	☐	1.000		1651227.39		A	2.2
9	☐	1.000		1531038.59		P	0.5

165 Ho (ISTD) [No Gas]

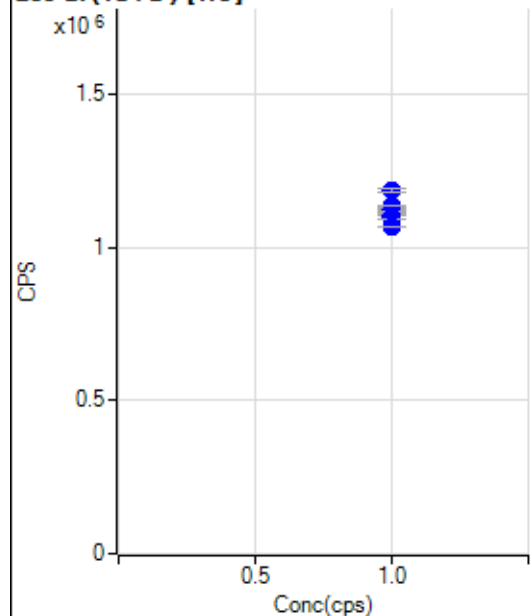
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		2898832.23		A	0.6
2	☐	1.000		2905326.28		A	1.0
3	☐	1.000		2819901.65		A	5.1
4	☐	1.000		2939650.98		A	0.6
5	☐	1.000		2976010.35		A	0.5
6	☐	1.000		2964594.79		A	2.4
7	☐	1.000		3089097.62		A	0.7
8	☐	1.000		3323794.84		A	1.5
9	☐	1.000		3004603.24		A	0.9

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1528334.98		P	0.8
2	☐	1.000		1537606.07		P	1.3
3	☐	1.000		1533593.81		M	1.2
4	☐	1.000		1532166.09		P	1.4
5	☐	1.000		1545170.45		P	0.5
6	☐	1.000		1554115.62		M	1.0
7	☐	1.000		1570349.52		M	1.3
8	☐	1.000		1624111.50		A	1.1
9	☐	1.000		1536724.66		P	0.5

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1783098.10		A	1.5
2	☐	1.000		1799553.98		A	0.9
3	☐	1.000		1751052.30		A	5.6
4	☐	1.000		1822580.09		A	0.8
5	☐	1.000		1841017.84		A	0.9
6	☐	1.000		1858138.17		A	1.3
7	☐	1.000		1923491.94		A	0.7
8	☐	1.000		2065858.93		A	0.5
9	☐	1.000		1768980.89		A	0.6

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	De t	RSD
1	☐	1.000		1099632.55		P	0.9
2	☐	1.000		1112050.72		P	0.8
3	☐	1.000		1115215.75		P	0.4
4	☐	1.000		1104096.11		P	1.6
5	☐	1.000		1119458.44		P	0.6
6	☐	1.000		1124710.83		P	0.7
7	☐	1.000		1137398.83		P	0.2
8	☐	1.000		1186168.40		P	1.0
9	☐	1.000		1068903.55		P	0.3

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8061020MS.b
Acq. Date-Time 2020-06-10 11:07:19
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		2849	28486.01			0.538	5.000
24		21173	211726.60			0.407	5.000
25		3028	30276.11			0.360	5.000
26		3468	34684.37			0.755	5.000
59		16636	166357.03			0.507	5.000
113		2535	25351.82			0.909	5.000
115		7703	77034.65			1.813	5.000
206		2620	26195.40			1.618	5.000
207		2196	21963.22			1.327	5.000
208		5392	53919.30			0.930	5.000
220		1	6.90			29.613	

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

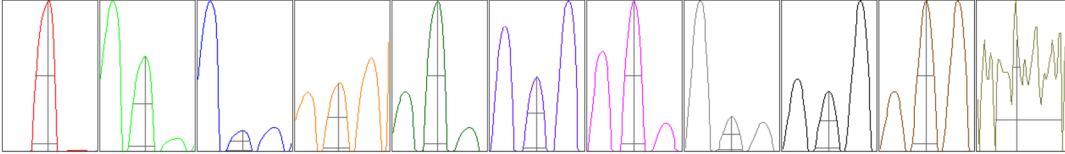
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	2822	2856	2858	2858	2848
24	21169	21029	21190	21247	21229
25	3013	3037	3024	3025	3040
26	3467	3463	3446	3513	3454
59	16509	16718	16593	16686	16673
113	2497	2556	2537	2536	2550
115	7863	7806	7719	7603	7526
206	2546	2640	2632	2653	2627
207	2149	2196	2222	2219	2195
208	5323	5386	5437	5444	5369

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	5100.20	8.95	8.90 - 9.10	
24	37379.08	23.95	23.90 - 24.10	
25	5047.97	24.95	24.90 - 25.10	
26	5800.96	25.90	25.90 - 26.10	
59	30356.23	58.95	58.90 - 59.10	
113	5048.94	113.00	112.90 - 113.10	
115	15325.14	115.00	114.90 - 115.10	
206	5085.90	206.00	205.90 - 206.10	
207	4200.09	207.00	206.90 - 207.10	
208	10524.15	208.00	207.90 - 208.10	
220	0.85	219.80	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.61	0.784	0.900	
24	0.62	0.826	0.900	
25	0.63	0.789	0.900	
26	0.63	0.829	0.900	
59	0.58	0.737	0.900	
113	0.52	0.727	0.900	
115	0.53	0.756	0.900	
206	0.53	0.769	0.900	
207	0.53	0.783	0.900	
208	0.53	0.793	0.900	
220	0.20	2.068		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.49 L/min Dilution Gas 0.45 L/min

US EPA Tune Check Report

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

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	15.0 V
Extract 2	-250.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-115 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	4.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	150 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9997	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	-0.07		

Hardware Settings

Torch

Torch H	0.5 mm	Torch V	0.0 mm
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EM

Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1232 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4035	40345.35			0.373	
89		6417	64174.48			0.531	
205		7466	74660.67			0.795	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4016	4056	4029	4031	4041
89	6373	6422	6398	6431	6463
205	7417	7451	7418	7560	7484

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.49 L/min	Dilution Gas	0.45 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.40 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	10.0 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	-6.0 V	Omega Lens	9.6 V	Deflect	4.0 V
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US EPA Tune Check Report

Extract 2	-250.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	190 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9997	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	-0.07		
Hardware Settings					
Torch					
Torch H	0.5 mm	Torch V	0.0 mm		
EM					
Discriminator	3.9 mV	Analog HV	2168 V	Pulse HV	1232 V