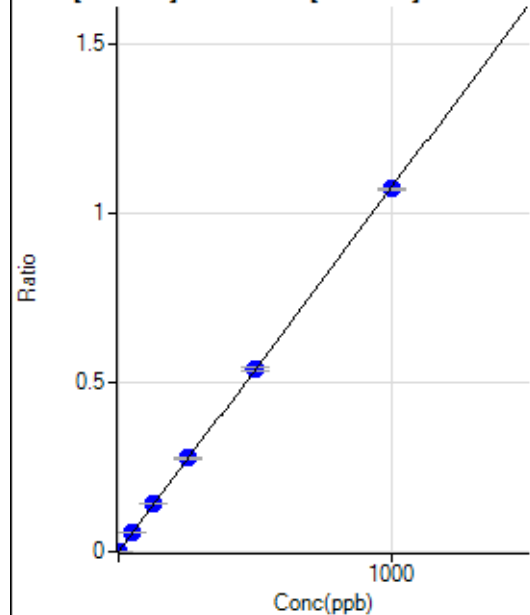


Batch Folder: D:\Agilent\ICPMH\1\DATA\P7041625MS.b\
Analysis File: P7041625MS.batch.bin
DA Date-Time: 2025-04-16 23:33:51
Calibration Title:
Calibration Method: External Calibration
VIS Interpolation Fit:

Level	Standard Data File	Sample Name	Acq. Date-Time
1	004CALB.d	S00	2025-04-16 10:39:29
2	005CALS.d	S02	2025-04-16 10:42:47
3	007CALS.d	S03	2025-04-16 10:49:23
4	008CALS.d	S04	2025-04-16 10:52:40
5	009CALS.d	S05	2025-04-16 10:55:44
6	010CALS.d	S06	2025-04-16 10:58:42
7	011CALS.d	S07	2025-04-16 11:01:32
8	013CALS.d	S08	2025-04-16 11:12:13

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	30.00	0.0000	P	67.3
2	☐	1.000	1.136	852.25	0.0013	P	7.6
3	☐	50.000	53.714	38646.89	0.0578	P	2.7
4	☐	125.000	130.569	94449.61	0.1405	P	1.0
5	☐	250.000	256.999	189458.41	0.2765	P	1.1
6	☐	500.000	502.365	368447.26	0.5405	P	2.2
7	☐	1000.000	996.186	705342.50	1.0718	P	0.3
8	☐			70.00	0.0001	P	8.7

$$y = 0.0011 * x + 4.4022E-005$$

$$R = 1.0000$$

$$DL = 0.08262$$

$$BEC = 0.04092$$

Weight: <None>

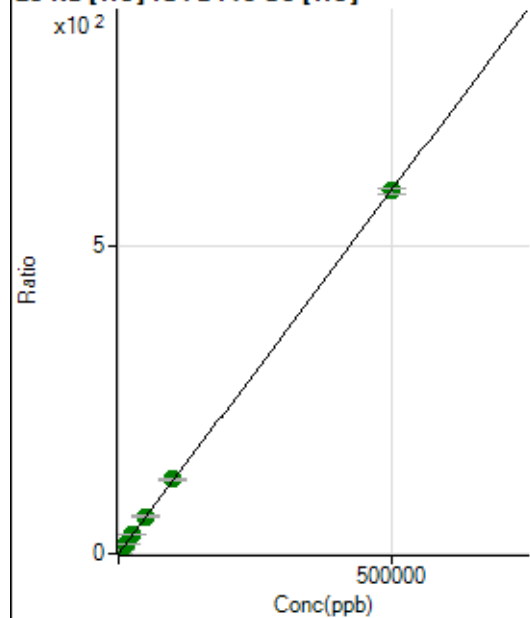
Min Conc: 0

12 C [No Gas] No available calibration points

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

12 C [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	12386.17	0.0465	P	0.9
2	☐	500.000	509.510	171167.11	0.6498	P	0.3
3	☐	5000.000	4999.561	1507300.06	5.9662	A	1.7
4	☐	12500.000	12656.490	3753793.48	15.0324	A	1.2
5	☐	25000.000	26049.895	7547411.90	30.8908	A	0.6
6	☐	50000.000	51542.142	14729997.14	61.0749	A	2.5
7	☐	100000.00	102349.89	29746680.67	121.2338	A	1.5
8	☐	500000.00	499319.39	160867324.2	591.2652	A	1.6

$$y = 0.0012 * x + 0.0465$$

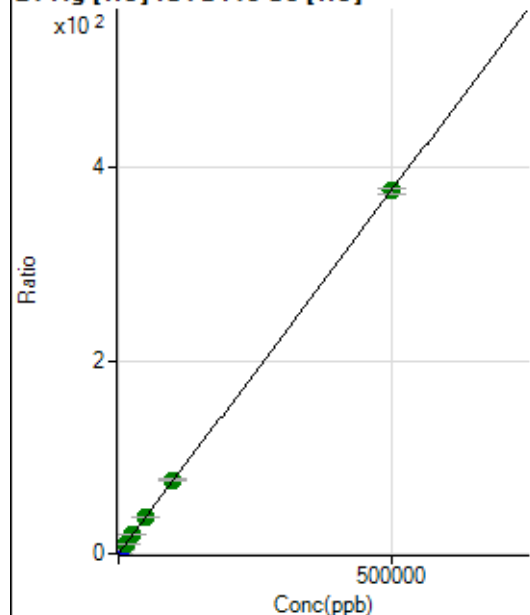
$$R = 1.0000$$

$$DL = 1.104$$

$$BEC = 39.25$$

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	160.00	0.0006	P	38.1
2	☐	500.000	508.981	101053.33	0.3836	P	1.0
3	☐	5000.000	4733.226	900052.05	3.5626	P	1.4
4	☐	12500.000	12557.704	2360172.10	9.4509	A	0.9
5	☐	25000.000	25949.137	4771112.22	19.5286	A	0.9
6	☐	50000.000	50895.488	9237733.33	38.3019	A	0.7
7	☐	100000.00	101727.62	18785106.67	76.5555	A	0.6
8	☐	500000.00	499518.68	102274386.2	375.9125	A	1.7

$$y = 7.5255\text{E-}004 * x + 6.0076\text{E-}004$$

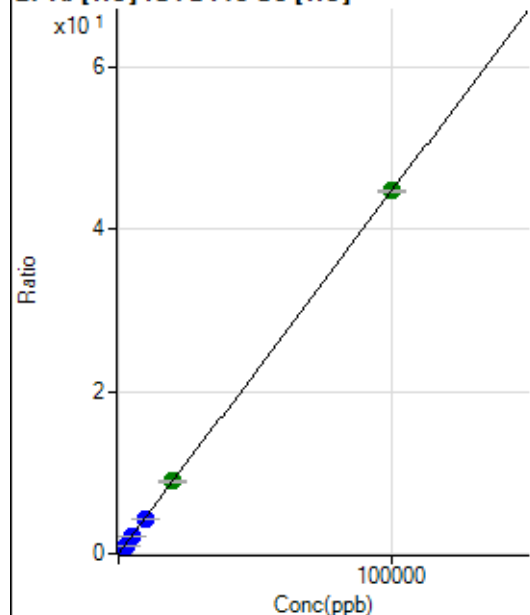
$$R = 1.0000$$

$$DL = 0.9127$$

$$BEC = 0.7983$$

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	74.44	0.0003	P	13.9
2	☐	20.000	21.597	2615.81	0.0099	P	4.5
3	☐	1000.000	957.527	108136.03	0.4280	P	0.5
4	☐	2500.000	2360.001	263352.37	1.0545	P	1.0
5	☐	5000.000	4795.881	523477.99	2.1427	P	1.4
6	☐	10000.000	9460.073	1019278.61	4.2262	P	1.6
7	☐	20000.000	20048.362	2197305.11	8.9561	A	3.0
8	☐	100000.00	100058.45	12161631.90	44.6977	A	0.8

$$y = 4.4671\text{E-}004 * x + 2.7939\text{E-}004$$

$$R = 1.0000$$

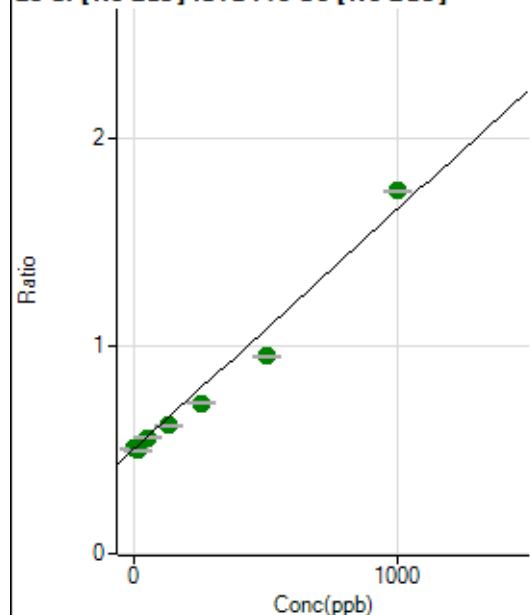
$$DL = 0.2612$$

$$BEC = 0.6254$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1711668.01	0.5095	A	1.5
2	☐	10.000	-9.399	1628681.54	0.4987	A	1.4
3	☐	50.000	43.848	1818209.25	0.5600	A	1.5
4	☐	125.000	94.904	1912968.65	0.6188	A	0.7
5	☐	250.000	186.622	2140417.02	0.7244	A	1.1
6	☐	500.000	384.469	2729411.42	0.9523	A	1.5
7	☐	1000.000	1077.873	5072768.15	1.7507	A	0.4
8	☐			1445690.86	0.4309	A	0.7

$$y = 0.0012 * x + 0.5095$$

$$R = 0.9895$$

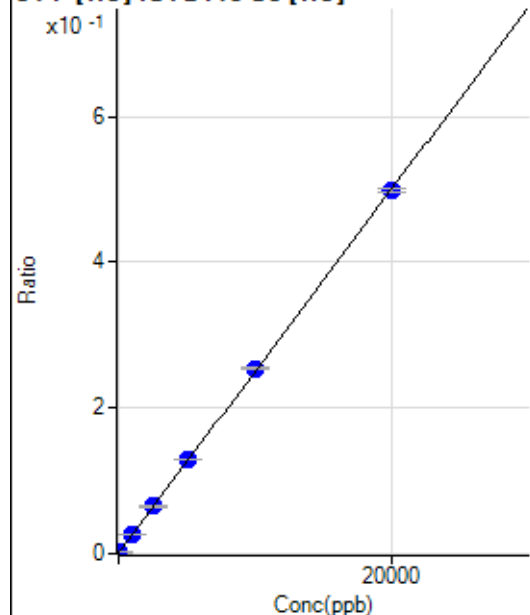
$$DL = 20.21$$

$$BEC = 442.5$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-17.004	267.78	0.0010	P	9.1
2	☐	0.000	17.004	487.79	0.0019	P	8.8
3	☐	1000.000	1001.287	6668.17	0.0264	P	3.2
4	☐	2500.000	2564.978	16324.37	0.0654	P	2.8
5	☐	5000.000	5129.543	31593.77	0.1293	P	1.0
6	☐	10000.000	10111.423	61145.04	0.2535	P	1.1
7	☐	20000.000	19903.716	122114.02	0.4977	P	1.1
8	☐			308.89	0.0011	P	8.7

$$y = 2.4932E-005 * x + 0.0014$$

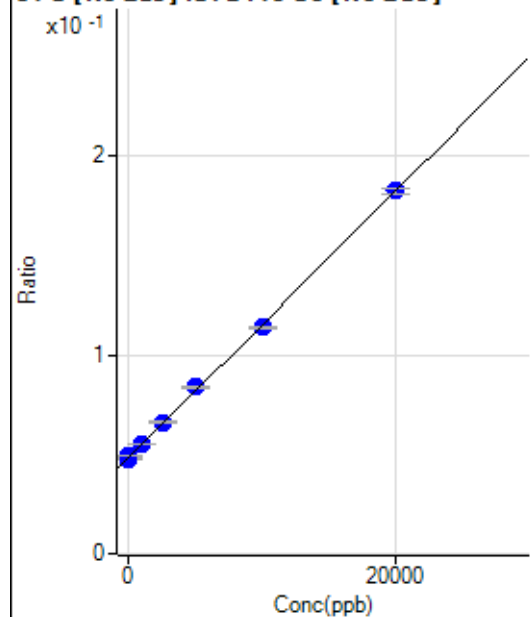
$$R = 0.9999$$

$$DL = 15.27$$

$$BEC = 57.32$$

Weight: <None>

Min Conc: 0

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	-100.023	160034.52	0.0476	P	1.5
2	☐	0.000	100.023	159969.12	0.0490	P	0.4
3	☐	1000.000	978.038	178130.08	0.0549	P	0.5
4	☐	2500.000	2657.306	204375.00	0.0661	P	0.4
5	☐	5000.000	5301.739	247674.94	0.0838	P	1.2
6	☐	10000.000	9792.263	326475.34	0.1139	P	0.7
7	☐	20000.000	20009.869	528334.79	0.1823	P	1.2
8	☐			144529.87	0.0431	P	0.8

$$y = 6.6985E-006 * x + 0.0483$$

$$R = 0.9997$$

$$DL = 208.3$$

$$BEC = 7212$$

Weight: <None>

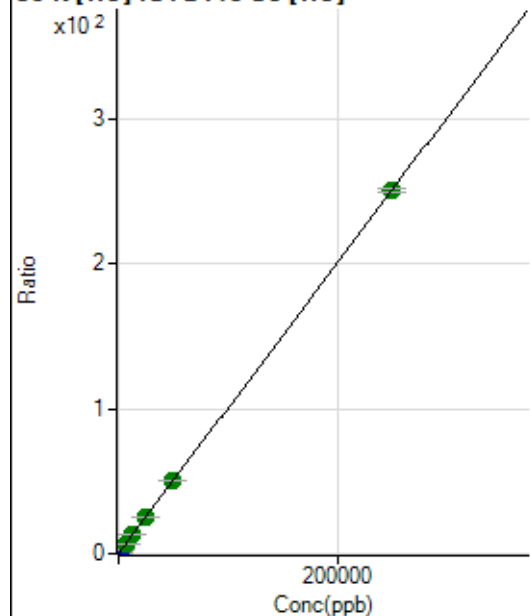
Min Conc: 0

35 Cl [No Gas] No available calibration points

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

35 Cl [He] No available calibration points

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

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

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	50602.72	0.1898	P	2.0
2	☐	500.000	546.073	193935.91	0.7362	P	1.0
3	☐	2500.000	2540.633	690227.17	2.7320	P	0.5
4	☐	6250.000	6180.584	1591732.27	6.3742	A	1.3
5	☐	12500.000	12652.915	3139631.62	12.8505	A	1.7
6	☐	25000.000	24876.804	6049337.34	25.0818	A	0.2
7	☐	50000.000	50086.715	12345584.26	50.3071	A	1.4
8	☐	250000.00	249988.56	68111902.32	250.3308	A	1.1

$$y = 0.0010 * x + 0.1898$$

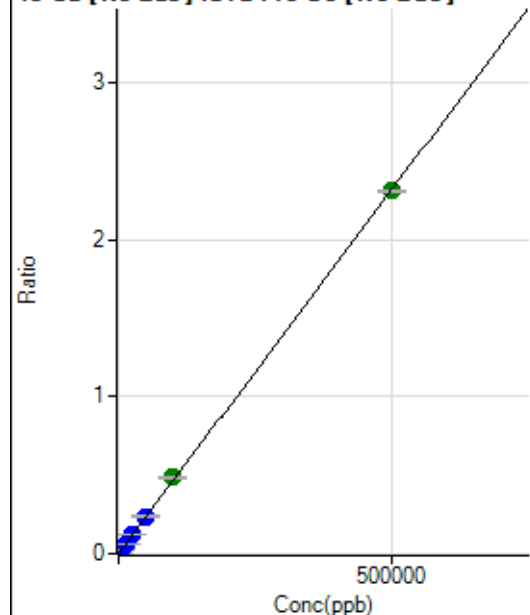
$$R = 1.0000$$

$$DL = 11.21$$

$$BEC = 189.7$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	294.45	0.0001	P	13.7
2	☐	500.000	550.618	8619.19	0.0026	P	3.8
3	☐	5000.000	5185.339	78285.10	0.0241	P	1.7
4	☐	12500.000	12816.181	183833.37	0.0595	P	1.1
5	☐	25000.000	26047.078	356762.71	0.1208	P	2.7
6	☐	50000.000	51454.512	683583.58	0.2385	P	1.1
7	☐	100000.00	104746.11	1406758.45	0.4854	A	1.4
8	☐	500000.00	498843.16	7754177.18	2.3114	A	0.6

$$y = 4.6334\text{E-}006 * x + 8.7672\text{E-}005$$

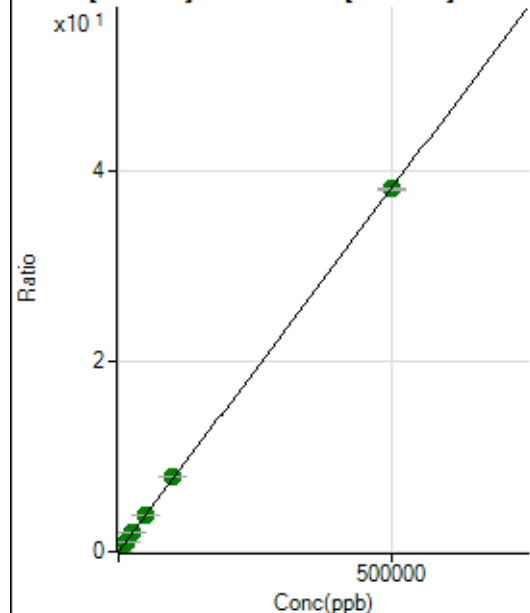
$$R = 1.0000$$

$$DL = 7.802$$

$$BEC = 18.92$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	8408.03	0.0025	P	2.1
2	☐	500.000	555.001	146601.86	0.0449	P	0.5
3	☐	5000.000	5045.310	1259177.27	0.3878	A	0.8
4	☐	12500.000	12451.020	2946999.78	0.9534	A	2.3
5	☐	25000.000	25569.212	5777227.41	1.9553	A	1.3
6	☐	50000.000	50770.567	11120964.97	3.8799	A	1.6
7	☐	100000.00	103108.85	22826105.21	7.8771	A	1.4
8	☐	500000.00	499273.42	127925811.4	38.1330	A	0.2

$$y = 7.6372\text{E-}005 * x + 0.0025$$

$$R = 1.0000$$

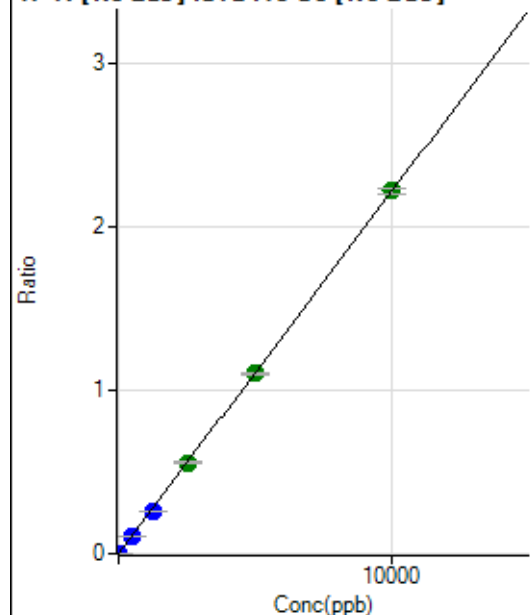
$$DL = 2.049$$

$$BEC = 32.78$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	68.89	0.0000	P	34.8
2	☐	5.000	5.143	3791.62	0.0012	P	0.3
3	☐	500.000	477.491	343883.87	0.1059	P	1.0
4	☐	1250.000	1180.604	809432.18	0.2619	P	1.8
5	☐	2500.000	2509.031	1643886.14	0.5565	A	2.4
6	☐	5000.000	4972.247	3160795.75	1.1028	A	1.2
7	☐	10000.000	10021.419	6440886.01	2.2226	A	1.7
8	☐			394.46	0.0001	P	10.5

$$y = 2.2178\text{E-}004 * x + 2.0465\text{E-}005$$

$$R = 1.0000$$

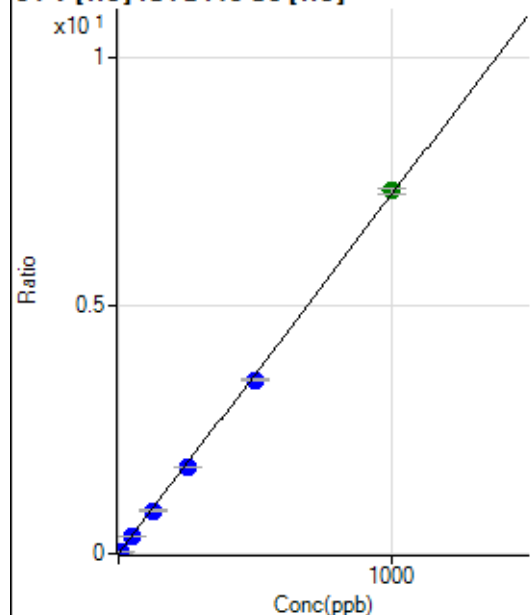
$$DL = 0.09635$$

$$BEC = 0.09228$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	10.00	0.0000	P	66.3
2	☐	5.000	5.233	9974.49	0.0379	P	2.0
3	☐	50.000	48.927	89356.20	0.3537	P	1.4
4	☐	125.000	120.008	216612.30	0.8675	P	1.7
5	☐	250.000	241.402	426314.17	1.7449	P	1.2
6	☐	500.000	484.691	844959.61	3.5035	P	0.6
7	☐	1000.000	1010.480	1792141.15	7.3039	A	1.9
8	☐			522.24	0.0019	P	4.7

$$y = 0.0072 * x + 3.7400\text{E-}005$$

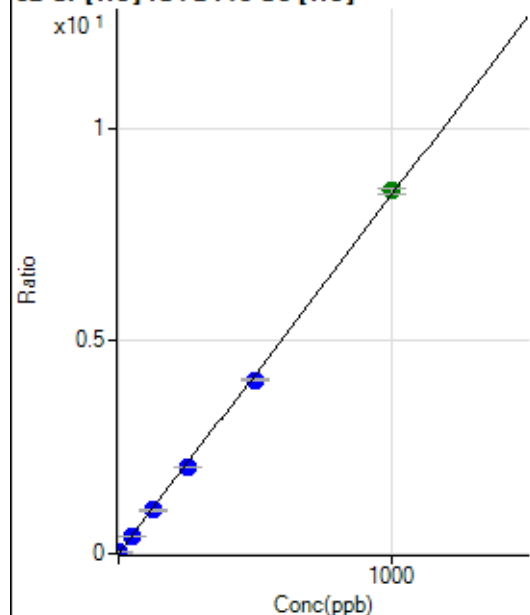
$$R = 0.9998$$

$$DL = 0.01029$$

$$BEC = 0.005174$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3679.38	0.0138	P	1.8
2	☐	2.000	2.102	8290.12	0.0315	P	1.6
3	☐	50.000	48.065	105587.80	0.4179	P	1.0
4	☐	125.000	119.674	254706.24	1.0200	P	1.8
5	☐	250.000	241.646	499764.00	2.0455	P	0.7
6	☐	500.000	482.608	981959.02	4.0715	P	1.1
7	☐	1000.000	1011.547	2090210.92	8.5188	A	1.5
8	☐			20872.31	0.0767	P	1.6

$$y = 0.0084 * x + 0.0138$$

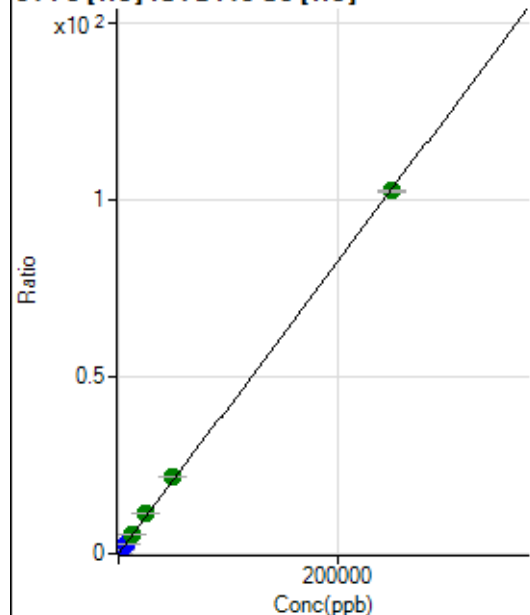
$$R = 0.9997$$

$$DL = 0.08895$$

$$BEC = 1.642$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	3522.67	0.0132	P	2.8
2	☐	50.000	58.478	9821.05	0.0373	P	1.7
3	☐	2500.000	2685.628	282505.08	1.1182	P	0.5
4	☐	6250.000	6631.363	684682.98	2.7416	P	0.4
5	☐	12500.000	13543.008	1364530.64	5.5854	A	2.0
6	☐	25000.000	27249.103	2707178.71	11.2246	A	0.5
7	☐	50000.000	52952.751	5349154.33	21.8002	A	1.1
8	☐	250000.00	249120.99	27891853.75	102.5120	A	0.8

$$y = 4.1144E-004 * x + 0.0132$$

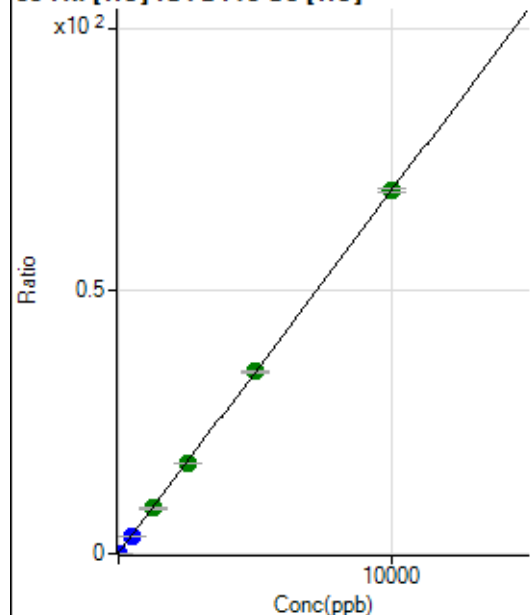
$$R = 0.9999$$

$$DL = 2.682$$

$$BEC = 32.12$$

Weight: <None>

Min Conc: 0

55 Mn [He] ISTD:45 Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	18248.97	0.0685	P	0.2
2	☐	1.000	0.943	19750.86	0.0750	P	1.4
3	☐	500.000	477.681	850698.17	3.3672	P	0.8
4	☐	1250.000	1241.657	2158324.36	8.6430	A	1.3
5	☐	2500.000	2494.513	4225468.55	17.2949	A	0.8
6	☐	5000.000	5016.904	8372071.54	34.7139	A	1.4
7	☐	10000.000	9995.079	16953593.22	69.0918	A	1.2
8	☐			10710.56	0.0394	P	3.6

$$y = 0.0069 * x + 0.0685$$

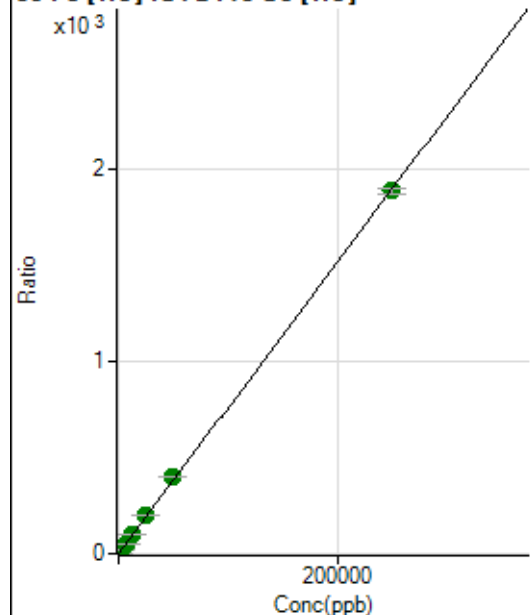
$$R = 1.0000$$

$$DL = 0.04915$$

$$BEC = 9.915$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	36142.36	0.1356	P	0.9
2	☐	50.000	57.218	150032.16	0.5696	P	1.9
3	☐	2500.000	2616.003	5047088.92	19.9773	A	1.0
4	☐	6250.000	6513.859	12371593.57	49.5415	A	1.6
5	☐	12500.000	13210.487	24514205.19	100.3336	A	1.4
6	☐	25000.000	26208.340	47974661.50	198.9188	A	1.0
7	☐	50000.000	52466.598	97681652.99	398.0805	A	0.5
8	☐	250000.00	249342.56	514583574.5	1,891.331	A	1.3

$$y = 0.0076 * x + 0.1356$$

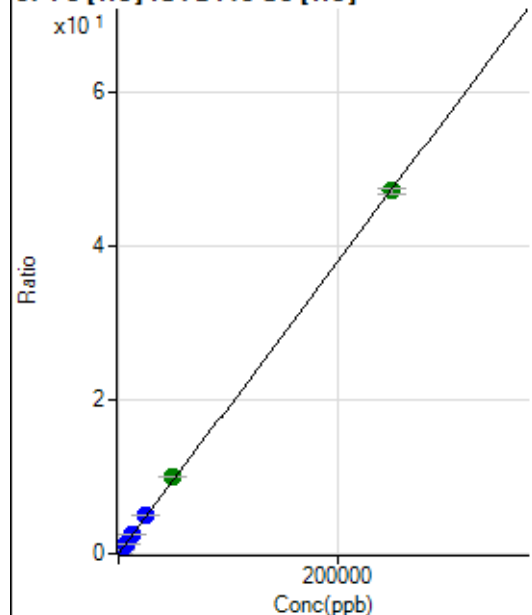
$$R = 0.9999$$

$$DL = 0.4804$$

$$BEC = 17.88$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	1611.22	0.0060	P	2.0
2	☐	50.000	59.208	4539.62	0.0172	P	1.0
3	☐	2500.000	2656.813	128344.31	0.5080	P	1.0
4	☐	6250.000	6552.126	310634.16	1.2440	P	1.2
5	☐	12500.000	13226.020	611990.77	2.5049	P	0.9
6	☐	25000.000	26550.068	1211233.84	5.0223	P	1.5
7	☐	50000.000	52459.448	2433592.67	9.9174	A	0.9
8	☐	250000.00	249307.67	12816749.95	47.1087	A	1.8

$$y = 1.8893\text{E-}004 * x + 0.0060$$

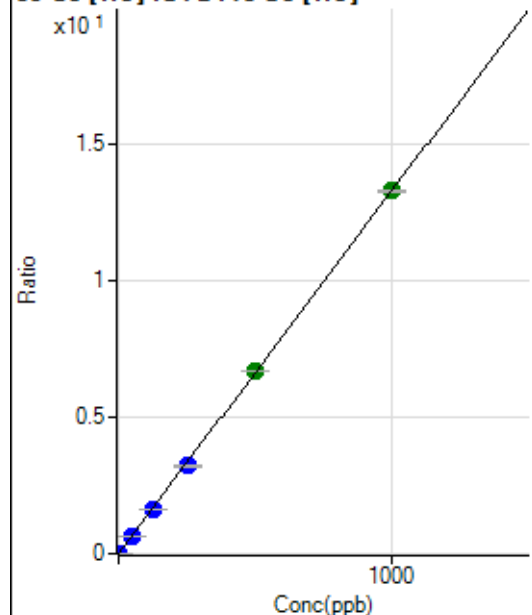
$$R = 0.9999$$

$$DL = 1.872$$

$$BEC = 31.99$$

Weight: <None>

Min Conc: 0

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	104.45	0.0004	P	15.7
2	☐	1.000	1.100	3956.12	0.0150	P	4.4
3	☐	50.000	48.848	164199.39	0.6499	P	1.4
4	☐	125.000	120.774	401132.65	1.6063	P	0.8
5	☐	250.000	241.963	786180.90	3.2178	P	0.5
6	☐	500.000	503.164	1613741.31	6.6910	A	0.6
7	☐	1000.000	1001.013	3266307.45	13.3110	A	0.8
8	☐			9185.09	0.0338	P	2.2

$$y = 0.0133 * x + 3.9214\text{E-}004$$

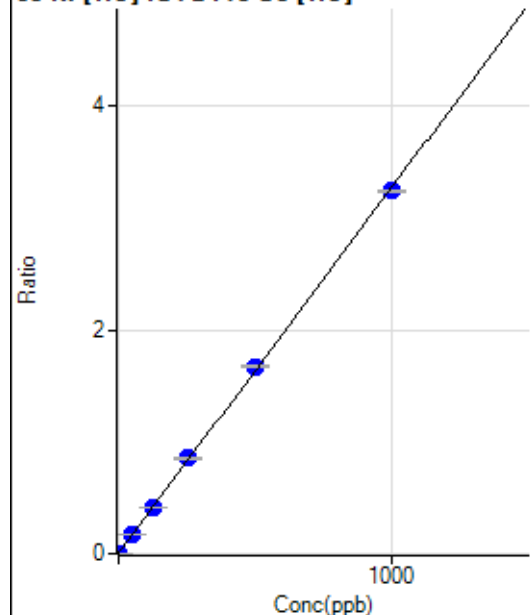
$$R = 1.0000$$

$$DL = 0.01387$$

$$BEC = 0.02949$$

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	962.26	0.0036	P	7.2
2	☐	1.000	1.059	1861.25	0.0071	P	5.9
3	☐	50.000	52.349	44105.86	0.1746	P	0.4
4	☐	125.000	126.284	103894.87	0.4160	P	0.7
5	☐	250.000	260.158	208463.40	0.8533	P	1.0
6	☐	500.000	511.308	403609.53	1.6735	P	1.0
7	☐	1000.000	991.529	795501.47	3.2419	P	0.3
8	☐			5298.77	0.0195	P	0.9

$$y = 0.0033 * x + 0.0036$$

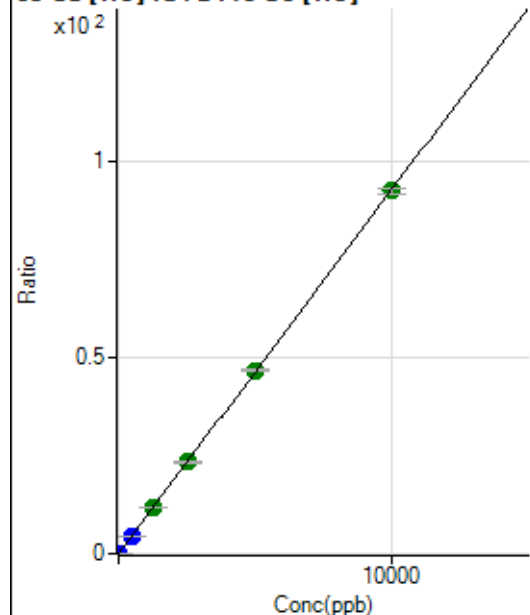
$$R = 0.9998$$

$$DL = 0.2381$$

$$BEC = 1.105$$

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	2001.27	0.0075	P	5.8
2	☐	2.000	2.158	7260.72	0.0276	P	1.7
3	☐	500.000	494.989	1163947.05	4.6071	P	1.2
4	☐	1250.000	1250.156	2902954.51	11.6244	A	1.0
5	☐	2500.000	2513.322	5707713.11	23.3622	A	1.7
6	☐	5000.000	5045.036	11308448.86	46.8879	A	0.9
7	☐	10000.000	9974.382	22743884.11	92.6932	A	1.3
8	☐			8675.92	0.0319	P	0.6

$$y = 0.0093 * x + 0.0075$$

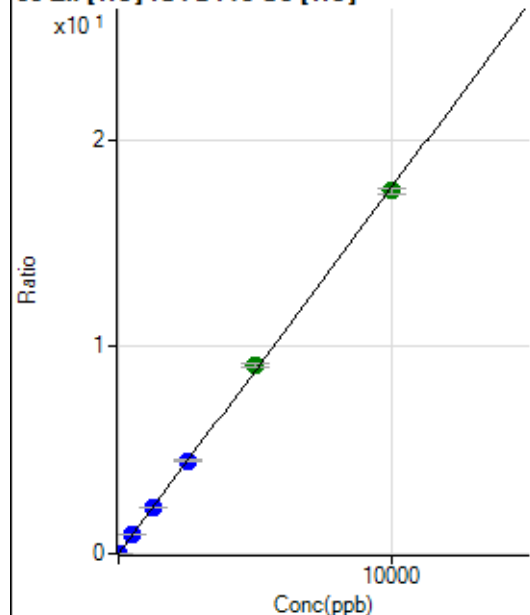
$$R = 1.0000$$

$$DL = 0.1396$$

$$BEC = 0.8082$$

Weight: <None>

Min Conc: 0

⁶⁶Zn [He] ISTD: ⁴⁵Sc [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	171.11	0.0006	P	6.0
2	☐	5.000	5.666	2808.07	0.0107	P	2.2
3	☐	500.000	512.701	229183.82	0.9072	P	1.0
4	☐	1250.000	1253.625	553644.22	2.2172	P	1.7
5	☐	2500.000	2540.851	1097750.05	4.4931	P	0.6
6	☐	5000.000	5161.069	2201035.95	9.1259	A	2.0
7	☐	10000.000	9908.164	4298677.44	17.5193	A	1.6
8	☐			26106.23	0.0960	P	4.1

$$y = 0.0018 * x + 6.4204E-004$$

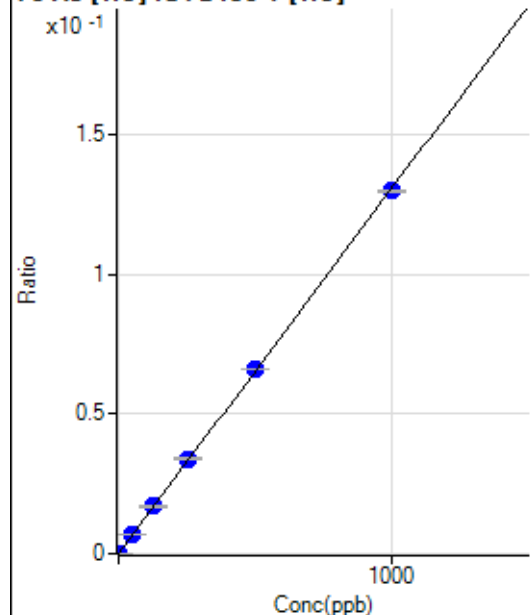
$$R = 0.9998$$

$$DL = 0.06513$$

$$BEC = 0.3631$$

Weight: <None>

Min Conc: 0

⁷⁵As [He] ISTD: ⁸⁹Y [He]

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	3.33	0.0000	P	99.8
2	☐	1.000	1.214	371.12	0.0002	P	7.8
3	☐	50.000	52.854	15323.57	0.0069	P	2.8
4	☐	125.000	129.539	37205.47	0.0170	P	1.8
5	☐	250.000	260.126	73285.26	0.0340	P	2.7
6	☐	500.000	505.537	143647.86	0.0662	P	0.8
7	☐	1000.000	993.990	287179.31	0.1301	P	0.6
8	☐			177.78	0.0001	P	21.8

$$y = 1.3085E-004 * x + 1.4150E-006$$

$$R = 0.9999$$

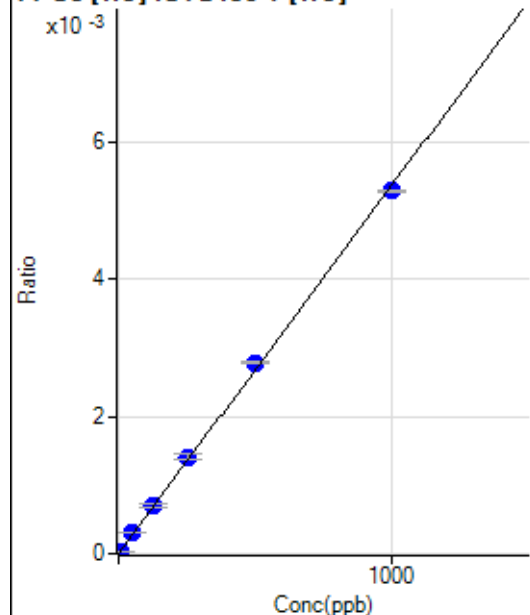
$$DL = 0.03236$$

$$BEC = 0.01081$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	0.00	0.0000	P	
2	☐	5.000	5.561	68.89	0.0000	P	35.1
3	☐	50.000	56.126	665.58	0.0003	P	4.2
4	☐	125.000	130.775	1535.65	0.0007	P	5.7
5	☐	250.000	263.690	3038.12	0.0014	P	4.5
6	☐	500.000	518.927	6031.29	0.0028	P	1.2
7	☐	1000.000	986.083	11653.56	0.0053	P	0.8
8	☐			4.44	0.0000	P	114.

$$y = 5.3525\text{E-}006 * x + 0.0000\text{E+}000$$

$$R = 0.9996$$

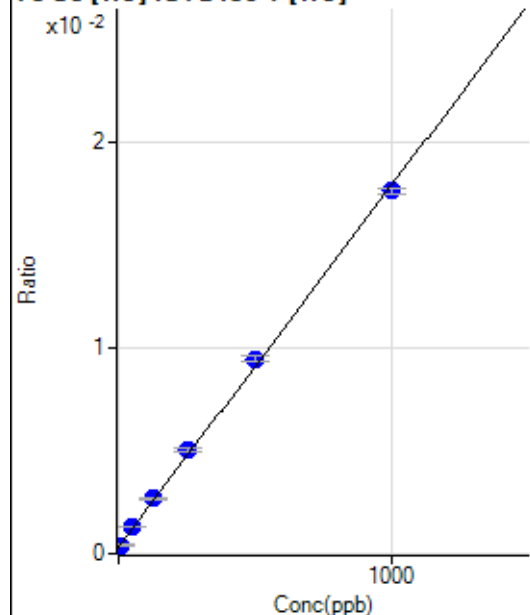
$$DL = 0$$

$$BEC = 0$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	785.59	0.0003	P	3.8
2	☐	5.000	4.780	968.93	0.0004	P	3.0
3	☐	50.000	55.370	2899.21	0.0013	P	1.3
4	☐	125.000	132.772	5862.33	0.0027	P	4.1
5	☐	250.000	267.965	10877.40	0.0051	P	2.6
6	☐	500.000	519.801	20597.78	0.0095	P	3.0
7	☐	1000.000	984.369	39001.31	0.0177	P	1.4
8	☐			775.58	0.0003	P	6.5

$$y = 1.7605\text{E-}005 * x + 3.3439\text{E-}004$$

$$R = 0.9995$$

$$DL = 2.174$$

$$BEC = 18.99$$

Weight: <None>

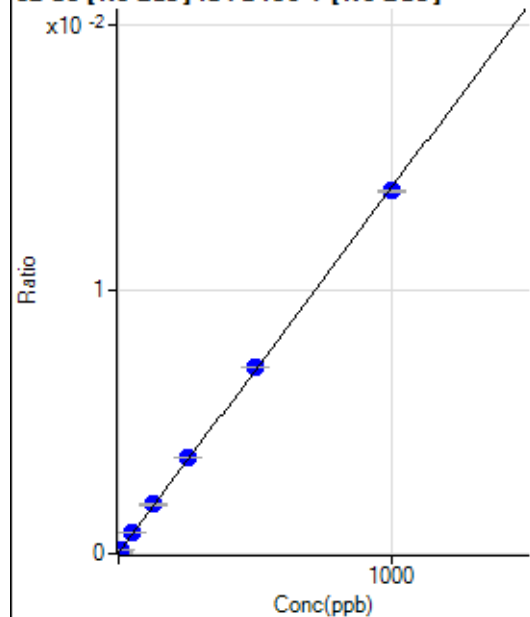
Min Conc: 0

81 Br [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			32519.25		P	1.6
2	☐			31864.44		P	1.3
3	☐			30842.38		P	1.9
4	☐			28661.31		P	0.2
5	☐			26090.97		P	3.1
6	☐			25696.87		P	1.0
7	☐			28185.96		P	1.7
8	☐			29842.44		P	2.9

81 Br [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			138.89		P	9.7
2	☐			98.89		P	17.3
3	☐			144.45		P	1.3
4	☐			107.78		P	7.8
5	☐			113.33		P	24.1
6	☐			103.34		P	8.5
7	☐			121.11		P	6.9
8	☐			198.89		P	8.6

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

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	308.44	0.0000	P	15.1
2	☐	5.000	6.046	970.22	0.0001	P	5.8
3	☐	50.000	53.874	6258.90	0.0008	P	3.3
4	☐	125.000	132.258	14427.64	0.0019	P	1.5
5	☐	250.000	260.805	27225.88	0.0036	P	0.9
6	☐	500.000	509.608	51596.70	0.0071	P	0.4
7	☐	1000.000	991.389	101795.65	0.0137	P	0.8
8	☐			469.57	0.0001	P	4.4

$$y = 1.3821\text{E-}005 * x + 3.6946\text{E-}005$$

$$R = 0.9999$$

$$DL = 1.213$$

$$BEC = 2.673$$

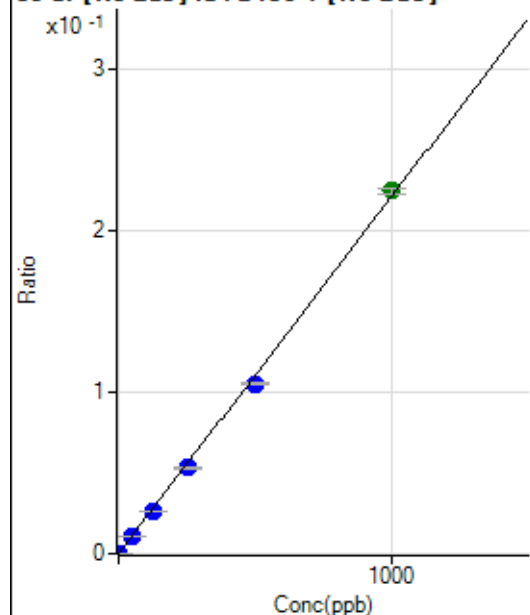
Weight: <None>

Min Conc: 0

83 Kr [No Gas] No available calibration points

	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐			361.12		P	11.9
2	☐			305.56		P	7.7
3	☐			383.34		P	3.0
4	☐			360.01		P	19.3
5	☐			340.01		P	7.7
6	☐			322.23		P	5.3
7	☐			355.56		P	12.7
8	☐			411.12		P	4.5

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	632.24	0.0001	P	6.7
2	☐	1.000	1.062	2499.12	0.0003	P	0.7
3	☐	50.000	47.654	84975.69	0.0106	P	1.7
4	☐	125.000	118.981	204052.83	0.0264	P	1.6
5	☐	250.000	239.578	396505.58	0.0530	P	1.1
6	☐	500.000	474.539	764978.58	0.1050	P	1.2
7	☐	1000.000	1016.206	1664836.21	0.2247	A	1.3
8	☐			6343.64	0.0008	P	1.3

$$y = 2.2105E-004 * x + 7.5676E-005$$

$$R = 0.9995$$

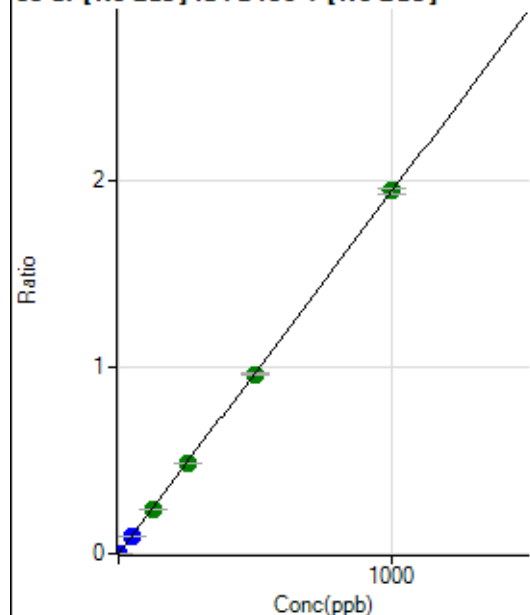
$$DL = 0.06882$$

$$BEC = 0.3424$$

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	84.45	0.0000	P	19.5
2	☐	1.000	1.044	16417.04	0.0020	P	1.1
3	☐	50.000	48.275	751652.73	0.0938	P	1.6
4	☐	125.000	123.990	1864320.27	0.2410	A	1.3
5	☐	250.000	250.776	3644396.68	0.4875	A	1.3
6	☐	500.000	495.135	7013577.12	0.9624	A	1.0
7	☐	1000.000	1002.451	14437800.62	1.9485	A	1.5
8	☐			51750.70	0.0062	P	0.5

$$y = 0.0019 * x + 1.0103E-005$$

$$R = 1.0000$$

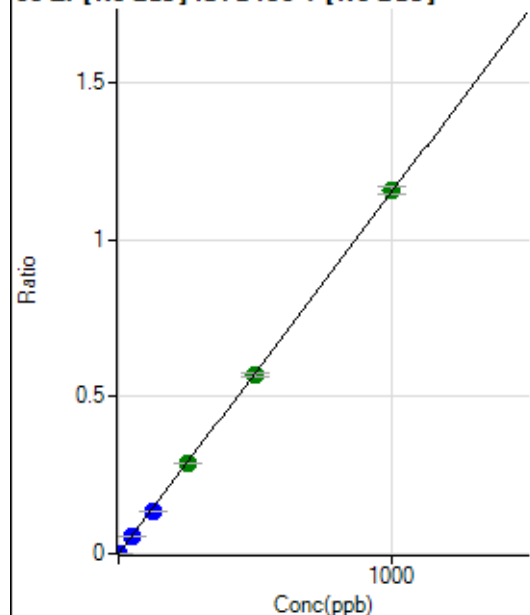
$$DL = 0.003044$$

$$BEC = 0.005198$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	333.34	0.0000	P	15.2
2	☐	1.000	1.032	9896.74	0.0012	P	1.8
3	☐	50.000	47.313	436982.18	0.0546	P	1.9
4	☐	125.000	118.134	1053341.78	0.1362	P	1.2
5	☐	250.000	249.289	2148130.21	0.2873	A	1.5
6	☐	500.000	495.050	4157406.98	0.5705	A	1.3
7	☐	1000.000	1003.645	8569603.48	1.1565	A	2.0
8	☐			4678.57	0.0006	P	0.9

$$y = 0.0012 * x + 3.9922E-005$$

$$R = 1.0000$$

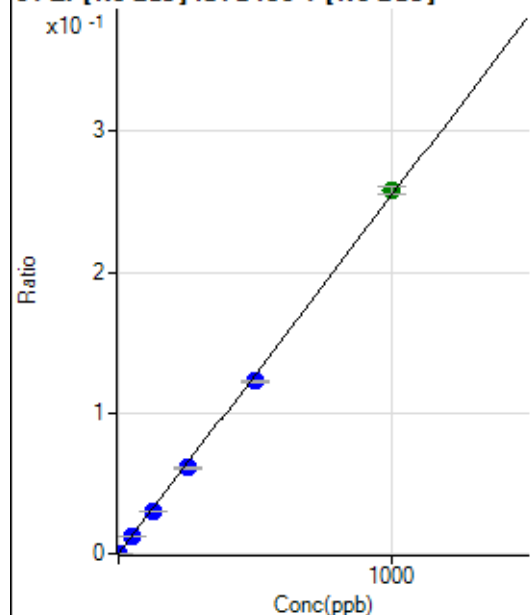
$$DL = 0.01578$$

$$BEC = 0.03465$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	58.89	0.0000	P	17.4
2	☐	1.000	1.052	2212.41	0.0003	P	2.7
3	☐	50.000	47.232	96304.44	0.0120	P	1.9
4	☐	125.000	118.395	233070.05	0.0301	P	0.5
5	☐	250.000	240.198	456953.70	0.0611	P	1.5
6	☐	500.000	481.223	892280.56	0.1224	P	1.6
7	☐	1000.000	1012.803	1909414.94	0.2577	A	2.1
8	☐			1050.05	0.0001	P	5.2

$$y = 2.5442E-004 * x + 7.0407E-006$$

$$R = 0.9997$$

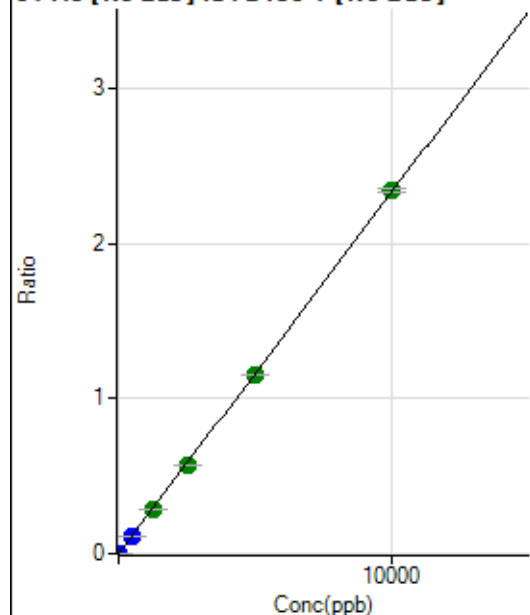
$$DL = 0.01445$$

$$BEC = 0.02767$$

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	165.56	0.0000	P	8.7
2	☐	5.000	6.105	11623.59	0.0014	P	1.5
3	☐	500.000	475.317	887870.58	0.1109	P	1.9
4	☐	1250.000	1223.914	2207820.96	0.2854	A	2.1
5	☐	2500.000	2457.414	4284217.43	0.5730	A	1.4
6	☐	5000.000	4939.469	8393985.57	1.1518	A	0.6
7	☐	10000.000	10045.407	17355703.77	2.3424	A	1.1
8	☐			4319.57	0.0005	P	4.0

$$y = 2.3318\text{E-}004 * x + 1.9818\text{E-}005$$

$$R = 1.0000$$

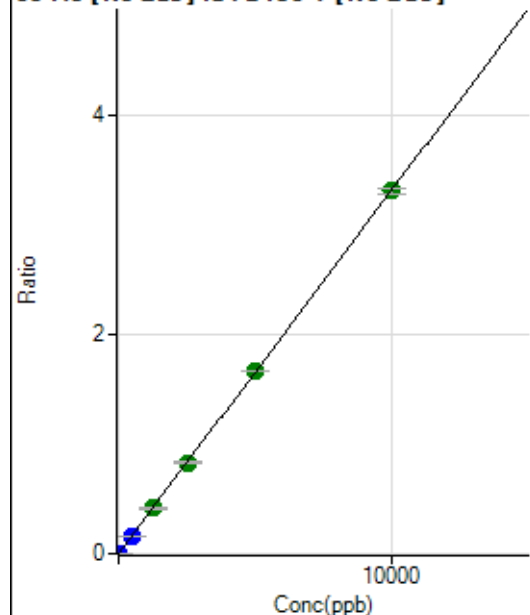
$$DL = 0.02228$$

$$BEC = 0.08499$$

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	95.56	0.0000	P	53.3
2	☐	5.000	5.127	13783.24	0.0017	P	2.8
3	☐	500.000	478.117	1269951.34	0.1586	P	2.3
4	☐	1250.000	1248.238	3202119.71	0.4139	A	1.4
5	☐	2500.000	2514.843	6234684.91	0.8339	A	1.8
6	☐	5000.000	5017.131	12124212.87	1.6637	A	0.1
7	☐	10000.000	9989.038	24543472.69	3.3124	A	1.6
8	☐			3245.94	0.0004	P	1.8

$$y = 3.3160\text{E-}004 * x + 1.1470\text{E-}005$$

$$R = 1.0000$$

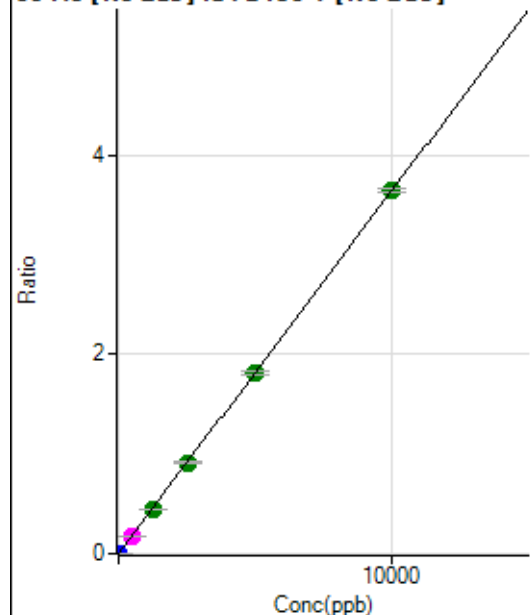
$$DL = 0.05529$$

$$BEC = 0.03459$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	222.23	0.0000	P	26.8
2	☐	5.000	5.232	15563.90	0.0019	P	0.3
3	☐	500.000	487.133	1421510.17	0.1775	M	3.8
4	☐	1250.000	1238.829	3491319.18	0.4513	A	0.8
5	☐	2500.000	2508.936	6833737.95	0.9140	A	0.9
6	☐	5000.000	4986.017	13237683.83	1.8164	A	1.3
7	☐	10000.000	10006.797	27010666.54	3.6455	A	1.0
8	☐			17104.56	0.0021	P	2.0

$$y = 3.6430E-004 * x + 2.6638E-005$$

$$R = 1.0000$$

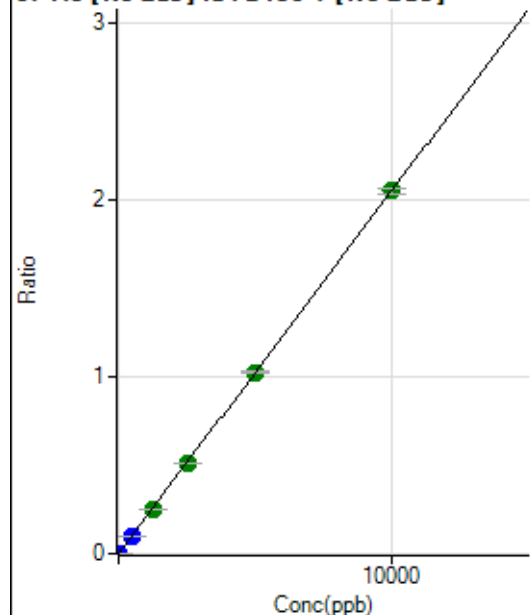
$$DL = 0.05869$$

$$BEC = 0.07312$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	65.56	0.0000	P	58.0
2	☐	5.000	5.092	8479.18	0.0011	P	1.8
3	☐	500.000	483.551	794936.48	0.0993	P	2.1
4	☐	1250.000	1239.341	1967663.34	0.2544	A	0.8
5	☐	2500.000	2475.939	3799421.75	0.5082	A	0.3
6	☐	5000.000	5006.406	7488089.82	1.0275	A	1.6
7	☐	10000.000	10004.967	15214903.11	2.0534	A	1.7
8	☐			2169.07	0.0003	P	3.2

$$y = 2.0524E-004 * x + 7.8731E-006$$

$$R = 1.0000$$

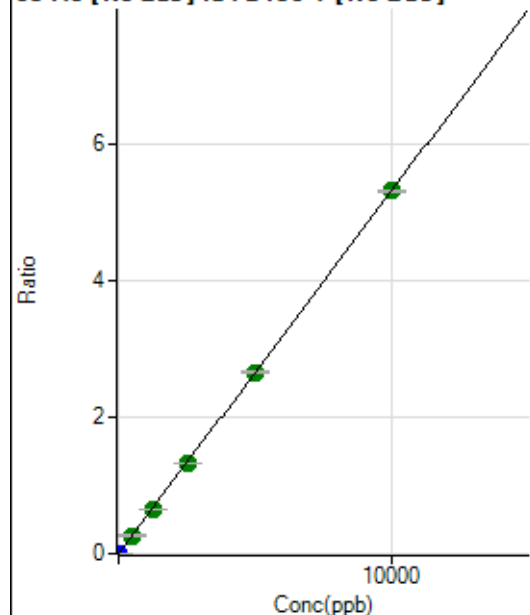
$$DL = 0.06675$$

$$BEC = 0.03836$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	151.11	0.0000	P	50.0
2	☐	5.000	5.102	21931.00	0.0027	P	1.9
3	☐	500.000	501.157	2128552.40	0.2657	A	2.4
4	☐	1250.000	1232.672	5056670.48	0.6536	A	0.7
5	☐	2500.000	2488.838	9867028.18	1.3197	A	0.6
6	☐	5000.000	5007.793	19350377.35	2.6553	A	1.6
7	☐	10000.000	10001.002	39291085.25	5.3029	A	0.8
8	☐			4853.08	0.0006	P	6.8

$$y = 5.3023\text{E-}004 * x + 1.8134\text{E-}005$$

$$R = 1.0000$$

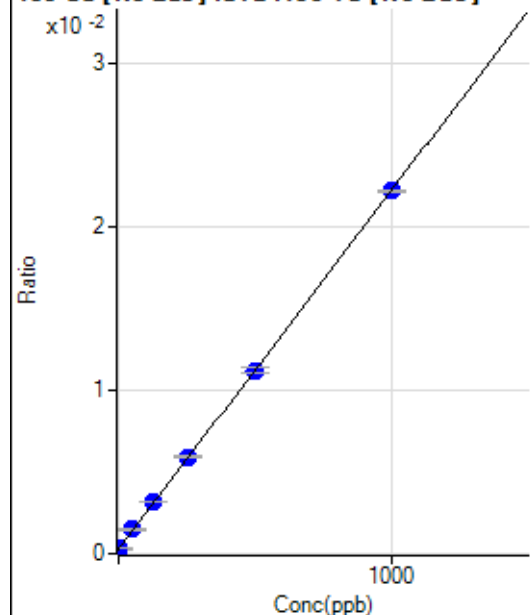
$$DL = 0.05126$$

$$BEC = 0.0342$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1843.47	0.0003	P	1.4
2	☐	1.000	1.793	2024.61	0.0003	P	6.4
3	☐	50.000	53.893	9055.12	0.0015	P	0.7
4	☐	125.000	131.887	19170.53	0.0032	P	0.3
5	☐	250.000	256.042	35887.58	0.0059	P	1.2
6	☐	500.000	498.531	67691.38	0.0112	P	2.6
7	☐	1000.000	998.168	134177.94	0.0222	P	0.7
8	☐			1744.57	0.0003	P	1.6

$$y = 2.1977\text{E-}005 * x + 2.9264\text{E-}004$$

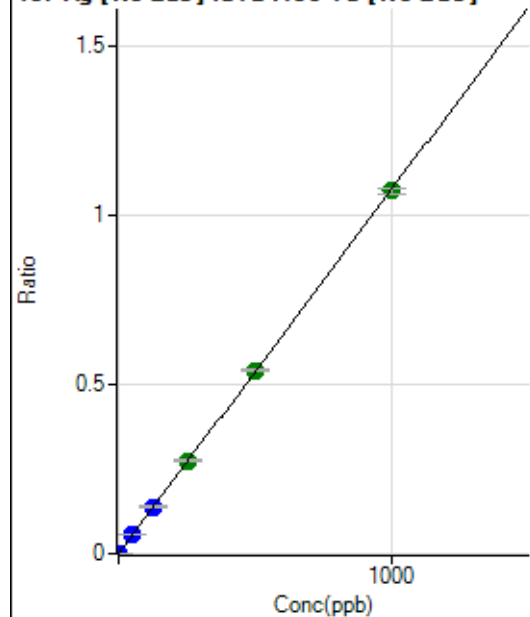
$$R = 1.0000$$

$$DL = 0.5417$$

$$BEC = 13.32$$

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	47.78	0.0000	P	32.3
2	☐	1.000	1.125	7438.64	0.0012	P	1.5
3	☐	50.000	52.729	348159.31	0.0568	P	0.8
4	☐	125.000	128.982	834445.11	0.1389	P	0.8
5	☐	250.000	255.779	1669857.55	0.2754	A	1.1
6	☐	500.000	503.297	3261452.14	0.5420	A	1.0
7	☐	1000.000	996.272	6474299.07	1.0728	A	1.6
8	☐			362.23	0.0001	P	6.9

$$y = 0.0011 * x + 7.5867E-006$$

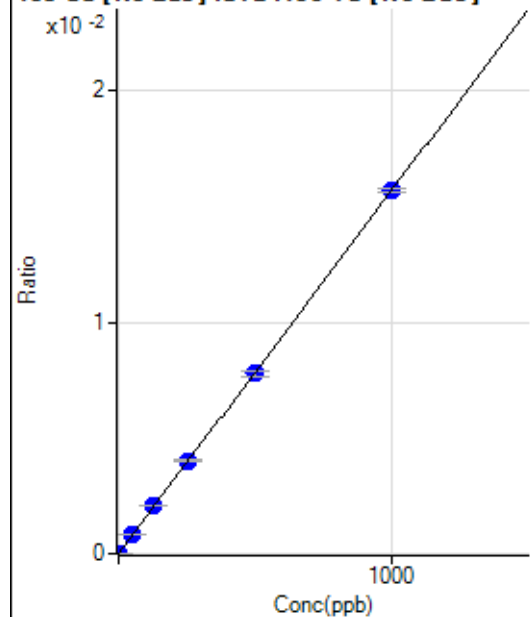
$$R = 1.0000$$

$$DL = 0.00683$$

$$BEC = 0.007045$$

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	4.45	0.0000	P	86.6
2	☐	1.000	1.069	106.67	0.0000	P	18.8
3	☐	50.000	52.958	5097.60	0.0008	P	2.7
4	☐	125.000	132.983	12535.51	0.0021	P	1.5
5	☐	250.000	256.894	24436.21	0.0040	P	0.9
6	☐	500.000	495.320	46757.38	0.0078	P	2.6
7	☐	1000.000	999.470	94625.98	0.0157	P	1.1
8	☐			36.67	0.0000	P	10.1

$$y = 1.5686E-005 * x + 7.0899E-007$$

$$R = 0.9999$$

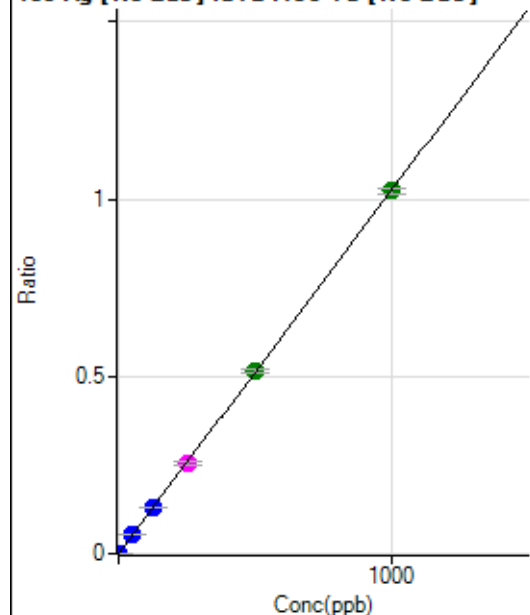
$$DL = 0.1174$$

$$BEC = 0.0452$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	35.3
2	☐	1.000	1.097	6885.02	0.0011	P	3.1
3	☐	50.000	52.121	327422.19	0.0534	P	0.9
4	☐	125.000	127.665	785828.42	0.1308	P	1.1
5	☐	250.000	249.645	1550539.02	0.2558	M	3.7
6	☐	500.000	501.965	3094808.63	0.5143	A	1.5
7	☐	1000.000	998.667	6175184.28	1.0232	A	1.3
8	☐			350.01	0.0001	P	7.3

$$y = 0.0010 * x + 4.5887E-006$$

$$R = 1.0000$$

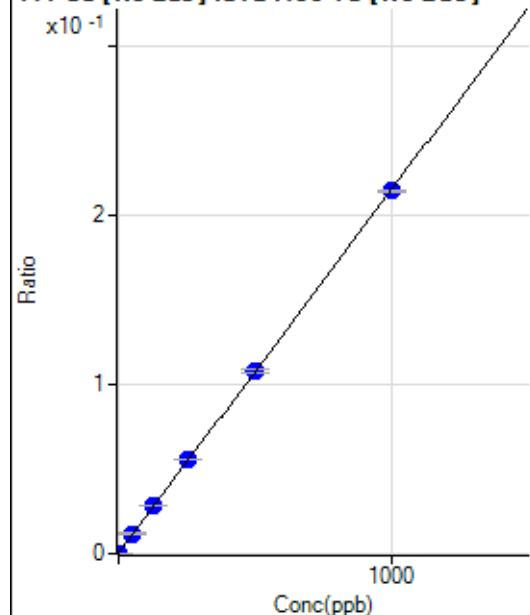
$$DL = 0.004746$$

$$BEC = 0.004479$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	1296.21	0.0002	P	1.6
2	☐	1.000	1.273	2926.00	0.0005	P	3.1
3	☐	50.000	54.455	73129.35	0.0119	P	0.7
4	☐	125.000	132.531	172627.45	0.0287	P	1.1
5	☐	250.000	258.082	338055.09	0.0558	P	1.4
6	☐	500.000	500.580	649688.18	0.1080	P	1.5
7	☐	1000.000	996.525	1296113.86	0.2147	P	0.5
8	☐			1377.75	0.0002	P	2.9

$$y = 2.1527E-004 * x + 2.0577E-004$$

$$R = 0.9999$$

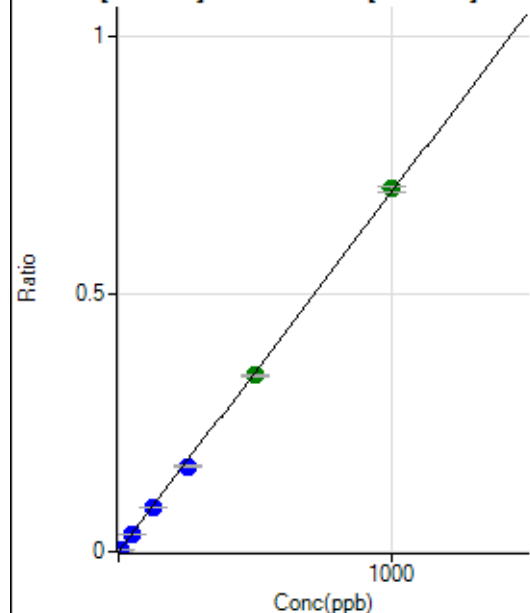
$$DL = 0.0455$$

$$BEC = 0.9559$$

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	706.69	0.0001	P	7.9
2	☐	5.000	5.342	23444.75	0.0038	P	1.0
3	☐	50.000	49.530	212815.26	0.0347	P	0.9
4	☐	125.000	121.993	512639.31	0.0853	P	0.9
5	☐	250.000	237.373	1005972.02	0.1659	P	1.3
6	☐	500.000	489.298	2057604.45	0.3419	A	1.0
7	☐	1000.000	1008.906	4255736.36	0.7049	A	1.7
8	☐			1361.19	0.0002	P	4.8

$$y = 6.9859\text{E-}004 * x + 1.1217\text{E-}004$$

$$R = 0.9998$$

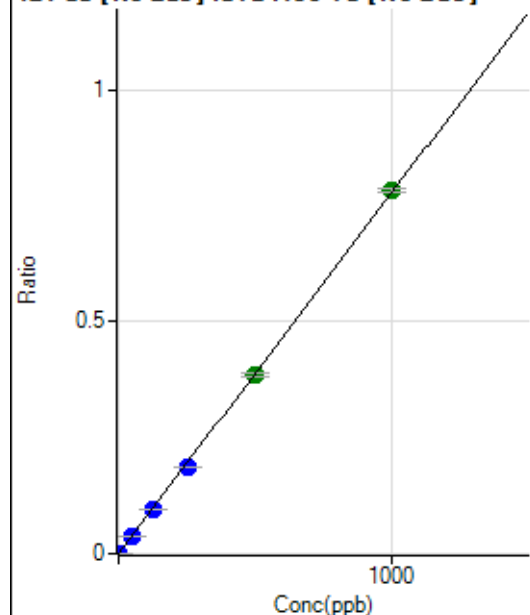
$$DL = 0.03824$$

$$BEC = 0.1606$$

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	25.56	0.0000	P	39.0
2	☐	2.000	2.095	9963.54	0.0016	P	1.6
3	☐	50.000	49.687	236939.22	0.0386	P	1.2
4	☐	125.000	122.415	571980.43	0.0952	P	0.9
5	☐	250.000	240.139	1132283.68	0.1868	P	1.4
6	☐	500.000	493.759	2310921.65	0.3840	A	2.3
7	☐	1000.000	1005.924	4723117.26	0.7824	A	0.9
8	☐			2383.56	0.0004	P	1.5

$$y = 7.7776\text{E-}004 * x + 4.0476\text{E-}006$$

$$R = 0.9999$$

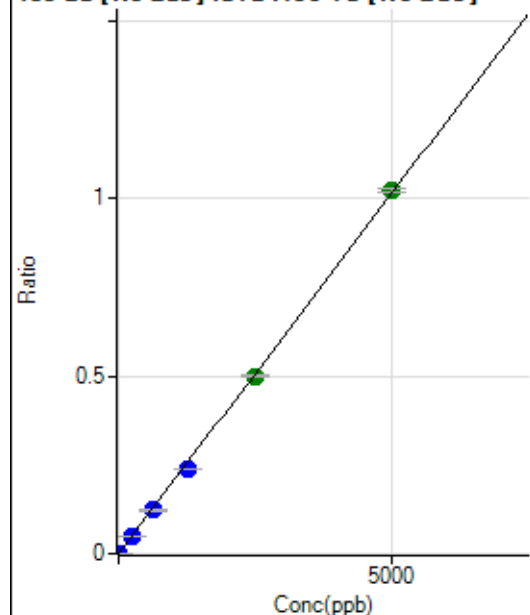
$$DL = 0.006088$$

$$BEC = 0.005204$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	13.33	0.0000	P	65.3
2	☐	10.000	10.568	13060.52	0.0021	P	0.5
3	☐	250.000	242.861	301434.18	0.0492	P	0.8
4	☐	625.000	602.597	732861.33	0.1220	P	1.0
5	☐	1250.000	1174.762	1441785.31	0.2378	P	1.2
6	☐	2500.000	2465.339	3003281.10	0.4991	A	1.7
7	☐	5000.000	5039.296	6156971.65	1.0202	A	1.1
8	☐			2466.90	0.0004	P	5.1

$$y = 2.0244\text{E-}004 * x + 2.1107\text{E-}006$$

$$R = 0.9998$$

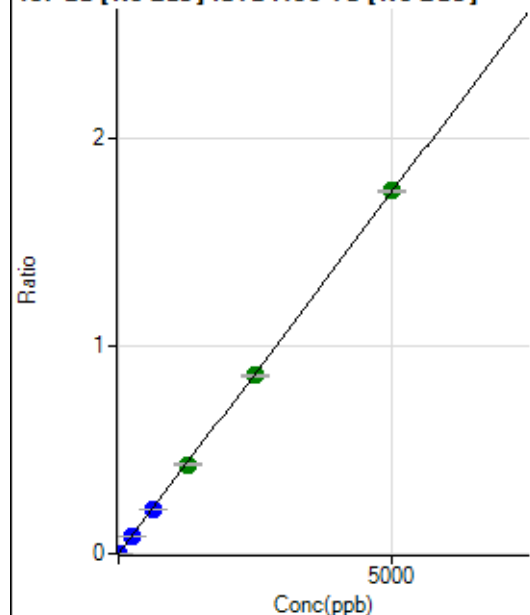
$$DL = 0.02043$$

$$BEC = 0.01043$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	28.89	0.0000	P	16.8
2	☐	10.000	10.455	22233.04	0.0036	P	0.6
3	☐	250.000	243.543	519934.66	0.0848	P	1.4
4	☐	625.000	603.407	1262224.89	0.2101	P	1.0
5	☐	1250.000	1237.680	2612707.97	0.4310	A	1.2
6	☐	2500.000	2465.116	5165313.53	0.8584	A	1.9
7	☐	5000.000	5023.543	10558716.30	1.7492	A	0.6
8	☐			4279.57	0.0007	P	3.6

$$y = 3.4821\text{E-}004 * x + 4.5808\text{E-}006$$

$$R = 1.0000$$

$$DL = 0.006617$$

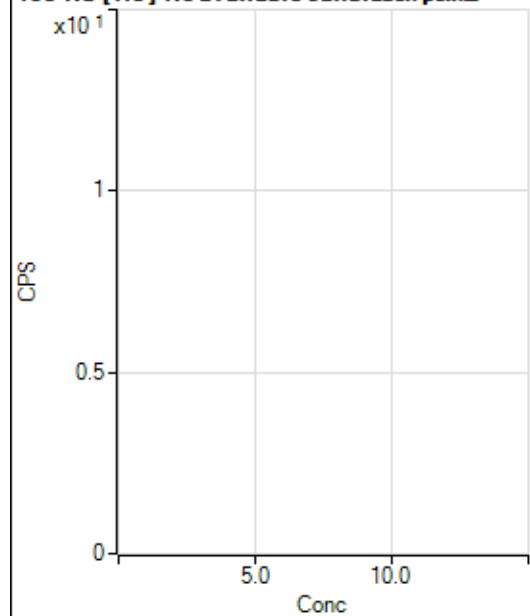
$$BEC = 0.01316$$

Weight: <None>

Min Conc: 0

150 Nd [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			4.44		P	114.
2	☐			8.89		P	21.6
3	☐			18.89		P	56.7
4	☐			41.11		P	4.7
5	☐			88.89		P	22.9
6	☐			151.11		P	16.3
7	☐			277.79		P	4.9
8	☐			103.33		P	14.8

150 Nd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			3.33		P	100.
2	☐			2.22		P	86.6
3	☐			5.55		P	69.3
4	☐			8.89		P	86.6
5	☐			22.22		P	31.2
6	☐			23.33		P	24.7
7	☐			84.45		P	19.9
8	☐			75.55		P	14.2

156 Dy [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			7.78		P	49.5
2	☐			5.55		P	124.
3	☐			12.22		P	56.8
4	☐			14.45		P	26.7
5	☐			18.89		P	10.2
6	☐			54.45		P	19.7
7	☐			84.45		P	12.7
8	☐			162.22		P	12.0

156 Dy [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			1.11		P	173.
2	☐			10.00		P	33.3
3	☐			17.78		P	47.2
4	☐			28.89		P	40.5
5	☐			82.22		P	18.7
6	☐			153.34		P	13.0
7	☐			293.34		P	3.0
8	☐			151.12		P	4.6

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

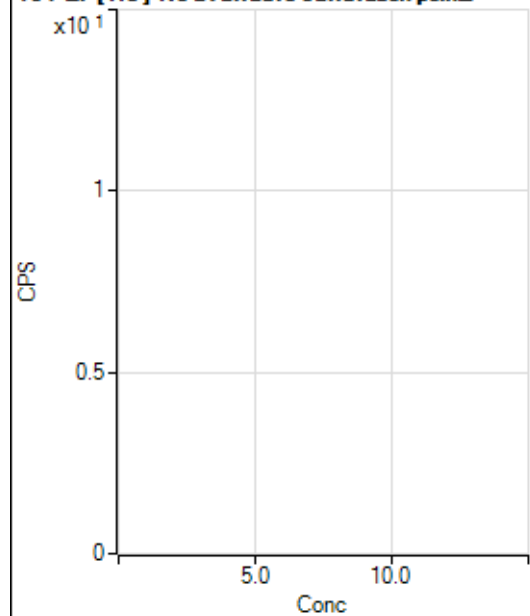
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			41.11		P	30.7
2	☐			21.11		P	32.9
3	☐			26.67		P	43.3
4	☐			38.89		P	32.4
5	☐			38.89		P	43.1
6	☐			47.78		P	38.4
7	☐			80.00		P	15.0
8	☐			164.45		P	7.1

160 Gd [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			255.56		P	17.6
2	☐			260.00		P	5.9
3	☐			242.23		P	4.8
4	☐			254.45		P	2.0
5	☐			261.11		P	8.5
6	☐			274.45		P	13.0
7	☐			277.79		P	3.9
8	☐			362.23		P	4.5

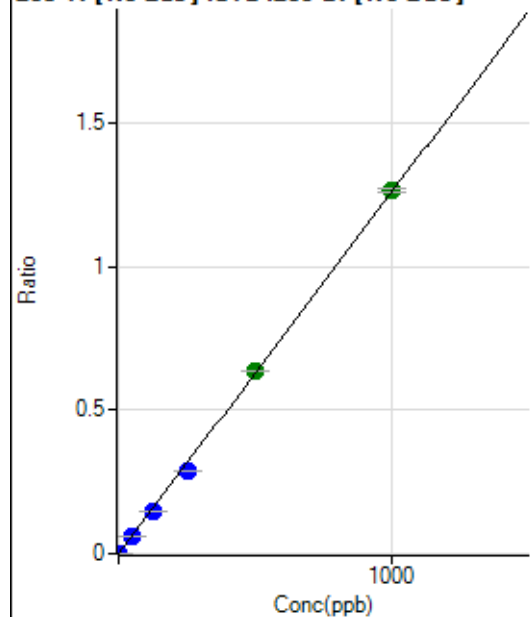
164 Er [No Gas] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			52.22		P	39.0
2	☐			40.00		P	33.3
3	☐			45.55		P	23.5
4	☐			41.11		P	4.7
5	☐			64.45		P	6.0
6	☐			61.11		P	22.1
7	☐			88.89		P	15.2
8	☐			255.56		P	6.6

164 Er [He] No available calibration points

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐			45.56		P	51.9
2	☐			30.00		P	29.4
3	☐			32.22		P	12.0
4	☐			34.45		P	11.2
5	☐			41.11		P	16.9
6	☐			53.33		P	16.5
7	☐			62.22		P	30.5
8	☐			225.56		P	0.9

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	48.89	0.0000	P	11.4
2	☐	1.000	0.995	4308.50	0.0013	P	1.1
3	☐	50.000	45.579	197430.90	0.0574	P	0.8
4	☐	125.000	115.955	492536.69	0.1460	P	1.9
5	☐	250.000	227.912	1004041.07	0.2869	P	1.3
6	☐	500.000	505.683	2174250.56	0.6366	A	0.7
7	☐	1000.000	1004.032	4342220.18	1.2639	A	1.2
8	☐			245.56	0.0001	P	19.7

$$y = 0.0013 * x + 1.4017E-005$$

$$R = 0.9997$$

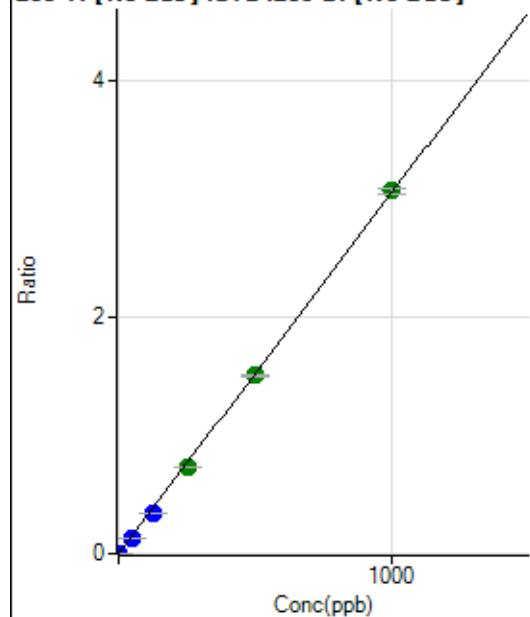
$$DL = 0.003825$$

$$BEC = 0.01114$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det.	RSD
1	☐	0.000	0.000	103.34	0.0000	P	7.0
2	☐	1.000	0.969	10130.52	0.0030	P	1.0
3	☐	50.000	44.547	466761.58	0.1357	P	1.4
4	☐	125.000	113.005	1161169.76	0.3441	P	1.9
5	☐	250.000	241.249	2570906.06	0.7346	A	1.0
6	☐	500.000	495.050	5148580.51	1.5074	A	1.1
7	☐	1000.000	1006.435	10528685.81	3.0646	A	1.4
8	☐			618.91	0.0002	P	2.0

$$y = 0.0030 * x + 2.9613E-005$$

$$R = 0.9999$$

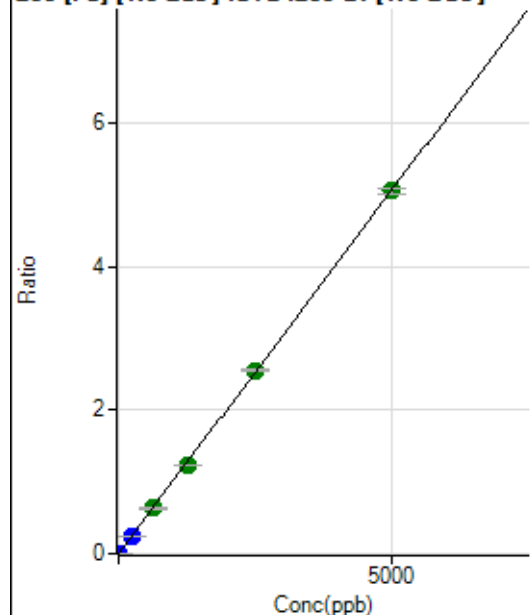
$$DL = 0.002048$$

$$BEC = 0.009725$$

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	346.67	0.0001	P	12.7
2	☐	1.000	0.980	3708.33	0.0011	P	2.2
3	☐	250.000	229.865	799901.74	0.2325	P	0.8
4	☐	625.000	623.699	2127839.38	0.6307	A	3.1
5	☐	1250.000	1223.550	4329676.88	1.2372	A	1.1
6	☐	2500.000	2522.613	8711409.11	2.5506	A	1.3
7	☐	5000.000	4996.476	17356433.21	5.0519	A	1.6
8	☐			18249.03	0.0055	P	1.8

$$y = 0.0010 * x + 9.9207E-005$$

$$R = 1.0000$$

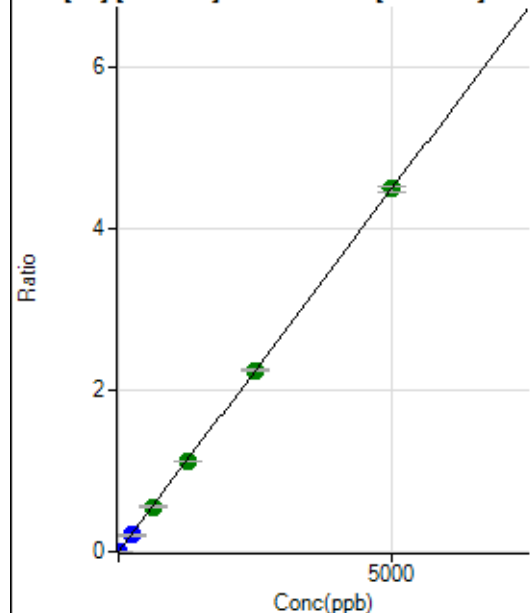
$$DL = 0.03732$$

$$BEC = 0.09812$$

Weight: <None>

Min Conc: 0

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



	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	0.000	0.000	302.23	0.0001	P	14.0
2	☐	1.000	1.020	3407.13	0.0010	P	4.1
3	☐	250.000	226.241	698575.25	0.2030	P	1.9
4	☐	625.000	616.952	1867666.34	0.5535	A	2.3
5	☐	1250.000	1245.365	3909952.44	1.1173	A	1.3
6	☐	2500.000	2498.466	7655694.68	2.2414	A	1.3
7	☐	5000.000	5004.120	15423682.27	4.4892	A	1.5
8	☐			16222.00	0.0049	P	0.9

$$y = 8.9708E-004 * x + 8.6613E-005$$

$$R = 1.0000$$

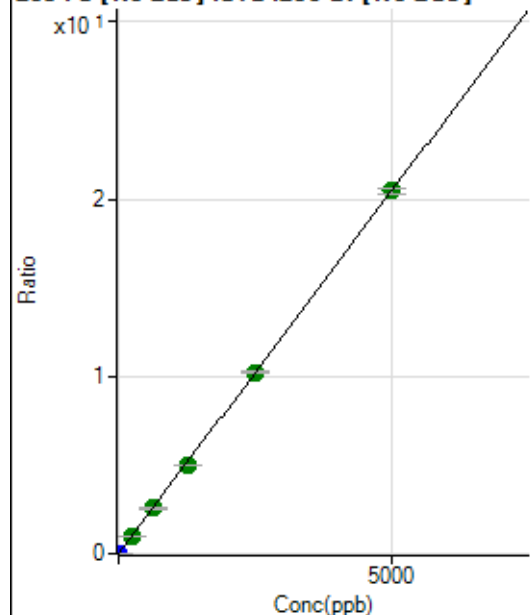
$$DL = 0.04064$$

$$BEC = 0.09655$$

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	1347.82	0.0004	P	1.3
2	☐	1.000	0.987	15036.75	0.0044	P	2.9
3	☐	250.000	235.822	3317802.29	0.9644	A	0.8
4	☐	625.000	624.811	8619362.39	2.5545	A	2.1
5	☐	1250.000	1228.567	17577722.45	5.0226	A	0.0
6	☐	2500.000	2505.394	34982544.76	10.2421	A	0.9
7	☐	5000.000	5003.394	70271442.14	20.4535	A	1.3
8	☐			73528.27	0.0221	P	0.7

$$y = 0.0041 * x + 3.8610E-004$$

$$R = 1.0000$$

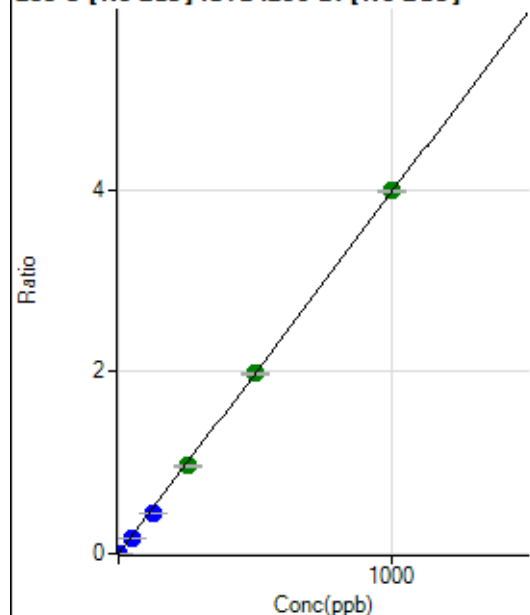
$$DL = 0.003594$$

$$BEC = 0.09445$$

Weight: <None>

Min Conc: 0

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



	R _j ct	Conc.	Calc Conc.	CPS	Ratio	Det	RSD
1	☐	0.000	0.000	7.78	0.0000	P	99.3
2	☐	1.000	0.961	12992.00	0.0038	P	1.1
3	☐	50.000	43.381	592710.28	0.1723	P	1.3
4	☐	125.000	110.776	1484416.23	0.4399	P	1.8
5	☐	250.000	243.315	3381626.48	0.9663	A	2.5
6	☐	500.000	498.793	6766110.80	1.9808	A	0.9
7	☐	1000.000	1004.384	13703217.71	3.9886	A	0.6
8	☐			428.90	0.0001	P	17.8

$$y = 0.0040 * x + 2.2325E-006$$

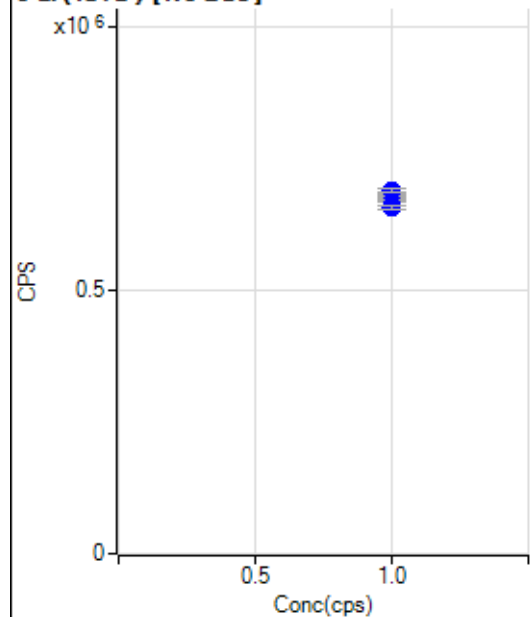
$$R = 0.9999$$

$$DL = 0.001675$$

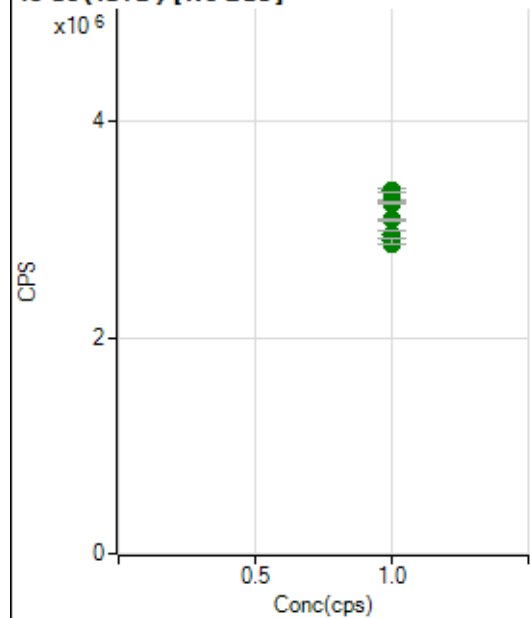
$$BEC = 0.0005622$$

Weight: <None>

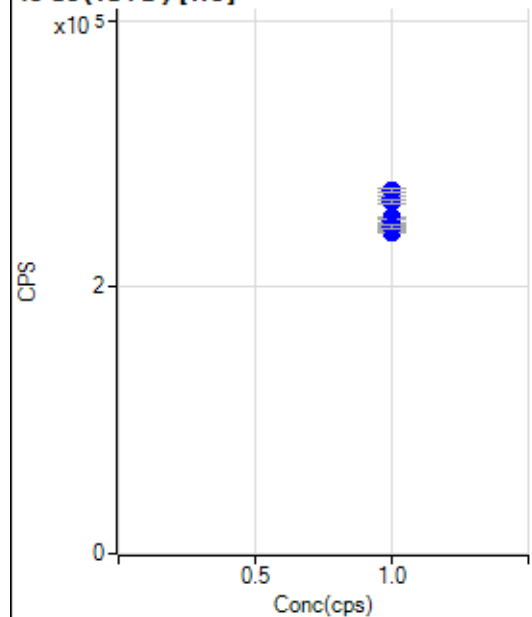
Min Conc: 0

6 Li (ISTD) [No Gas]

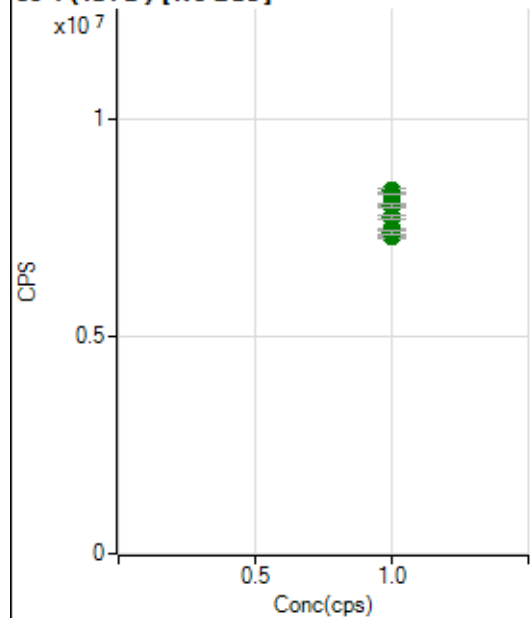
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		678699.77		P	1.0
2	☐	1.000		673139.93		P	0.6
3	☐	1.000		668287.24		P	0.3
4	☐	1.000		672141.25		P	0.4
5	☐	1.000		685146.03		P	0.7
6	☐	1.000		681716.56		P	0.6
7	☐	1.000		658079.03		P	1.0
8	☐	1.000		689046.26		P	1.0

45 Sc (ISTD) [No Gas]

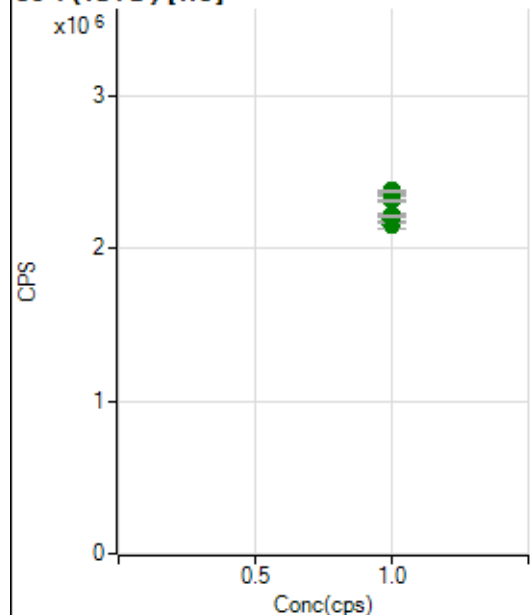
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3359445.40		A	1.2
2	☐	1.000		3265883.25		A	0.6
3	☐	1.000		3246847.49		A	0.8
4	☐	1.000		3091376.24		A	0.8
5	☐	1.000		2955015.37		A	1.9
6	☐	1.000		2866194.65		A	0.2
7	☐	1.000		2897646.66		A	1.5
8	☐	1.000		3354727.34		A	0.1

45 Sc (ISTD) [He]

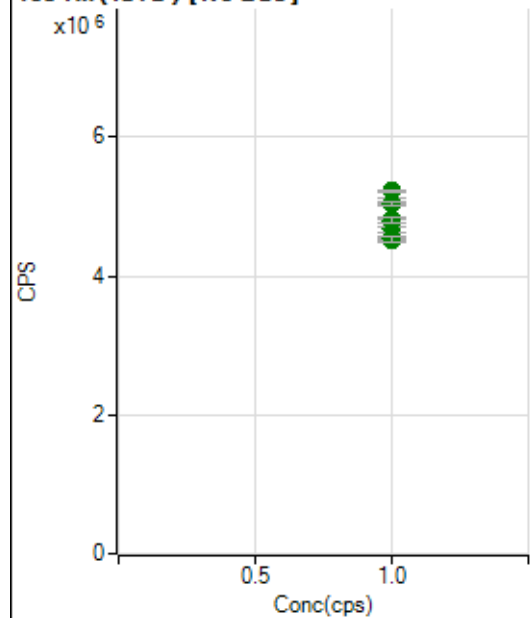
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		266525.86		P	0.8
2	☐	1.000		263431.06		P	1.2
3	☐	1.000		252644.92		P	0.2
4	☐	1.000		249728.87		P	0.9
5	☐	1.000		244322.67		P	0.6
6	☐	1.000		241183.13		P	0.4
7	☐	1.000		245388.55		P	1.0
8	☐	1.000		272096.71		P	0.9

89 Y (ISTD) [No Gas]

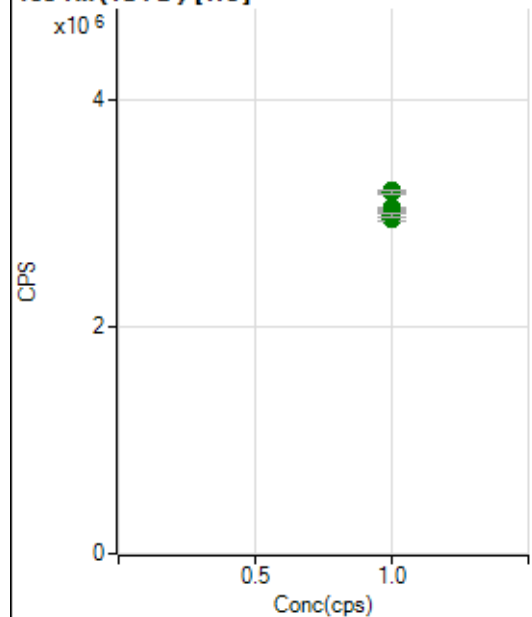
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		8355791.19		A	0.9
2	☐	1.000		8052796.62		A	0.6
3	☐	1.000		8010346.13		A	1.0
4	☐	1.000		7735978.08		A	1.1
5	☐	1.000		7476884.96		A	0.8
6	☐	1.000		7287591.70		A	0.7
7	☐	1.000		7408976.21		A	1.0
8	☐	1.000		8287627.03		A	0.4

89 Y(ISTD) [He]

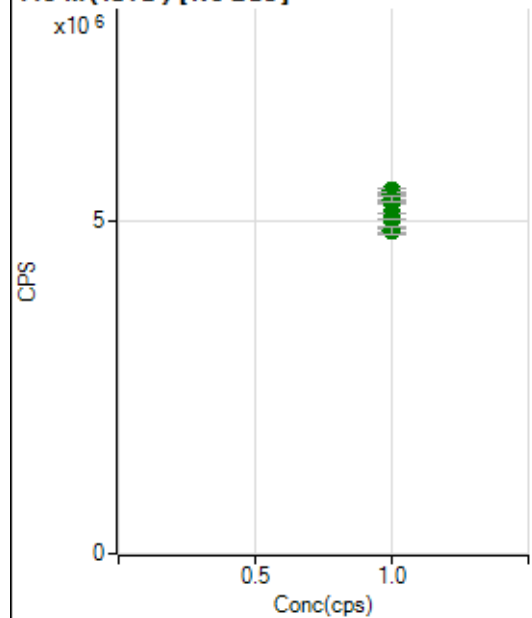
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2349270.30		A	0.5
2	☐	1.000		2315210.02		A	0.4
3	☐	1.000		2214796.95		A	1.2
4	☐	1.000		2195194.67		A	1.8
5	☐	1.000		2153967.07		A	2.7
6	☐	1.000		2171486.13		A	0.3
7	☐	1.000		2207964.58		A	0.4
8	☐	1.000		2377152.17		A	0.4

103 Rh(ISTD) [No Gas]

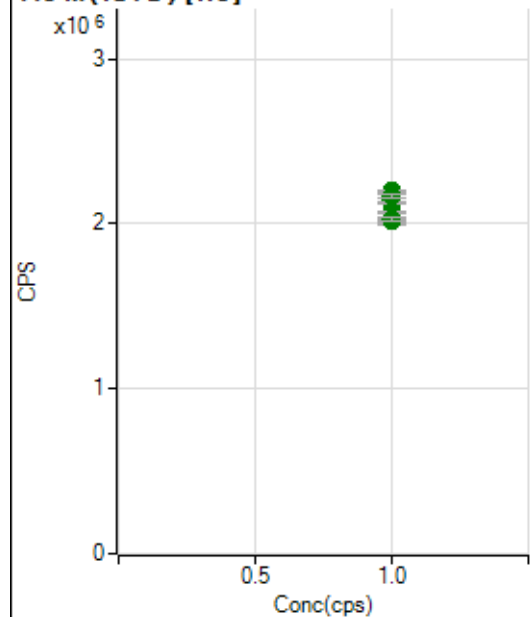
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5226333.78		A	0.5
2	☐	1.000		5083002.84		A	1.6
3	☐	1.000		5040795.34		A	0.7
4	☐	1.000		4825395.38		A	0.7
5	☐	1.000		4675110.76		A	1.9
6	☐	1.000		4528206.53		A	0.8
7	☐	1.000		4537049.24		A	2.0
8	☐	1.000		4804242.01		A	1.6

103 Rh (ISTD) [He]

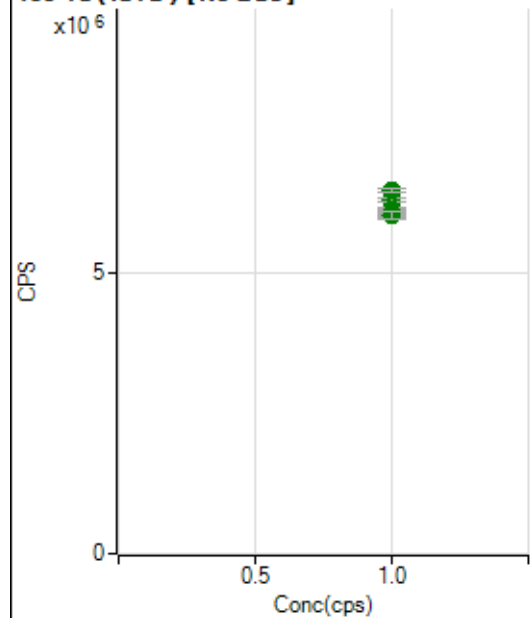
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3203652.63		A	0.5
2	☐	1.000		3193172.42		A	1.4
3	☐	1.000		3054379.78		A	0.6
4	☐	1.000		3027904.36		A	1.9
5	☐	1.000		3015470.82		A	0.4
6	☐	1.000		2959420.34		A	1.1
7	☐	1.000		2954168.56		A	1.2
8	☐	1.000		2985784.64		A	1.2

115 In (ISTD) [No Gas]

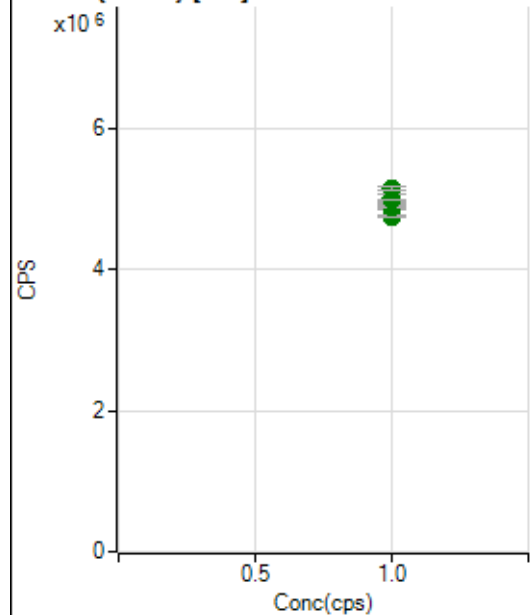
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5439199.66		A	1.6
2	☐	1.000		5391787.23		A	1.0
3	☐	1.000		5277046.42		A	1.0
4	☐	1.000		5103435.09		A	0.1
5	☐	1.000		5006831.95		A	0.1
6	☐	1.000		4838904.14		A	1.0
7	☐	1.000		4836470.53		A	2.2
8	☐	1.000		5305947.35		A	1.6

115 In (ISTD) [He]

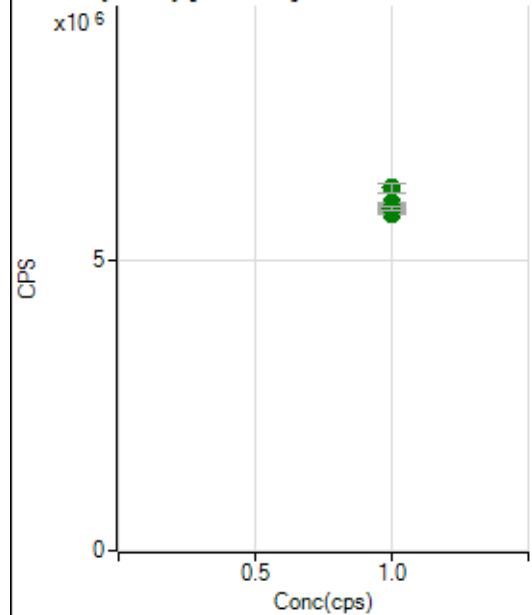
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		2198682.95		A	0.4
2	☐	1.000		2145061.04		A	1.1
3	☐	1.000		2127485.65		A	0.9
4	☐	1.000		2073185.96		A	0.5
5	☐	1.000		2011202.57		A	1.8
6	☐	1.000		2019755.44		A	1.5
7	☐	1.000		2023609.88		A	1.0
8	☐	1.000		2166454.57		A	1.2

159 Tb (ISTD) [No Gas]

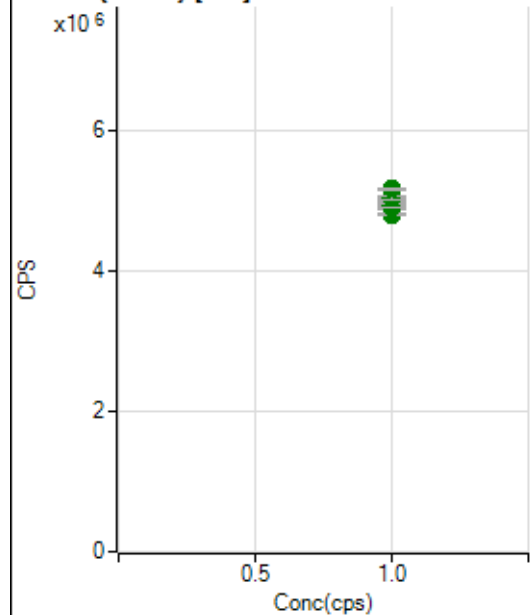
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		6299495.53		A	0.9
2	☐	1.000		6099088.66		A	0.9
3	☐	1.000		6130671.64		A	0.5
4	☐	1.000		6007419.42		A	0.4
5	☐	1.000		6062673.87		A	0.6
6	☐	1.000		6017677.97		A	0.7
7	☐	1.000		6036141.99		A	2.3
8	☐	1.000		6454831.43		A	1.1

159 Tb (ISTD) [He]

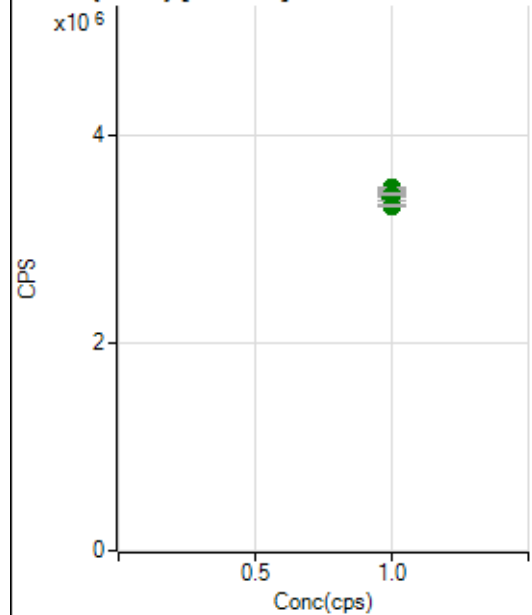
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		4937355.76		A	0.5
2	☐	1.000		5019974.54		A	1.8
3	☐	1.000		4749460.52		A	0.7
4	☐	1.000		4887371.35		A	2.1
5	☐	1.000		4912056.87		A	1.7
6	☐	1.000		4885161.98		A	0.8
7	☐	1.000		4989148.99		A	0.0
8	☐	1.000		5140585.48		A	1.0

165 Ho (ISTD) [No Gas]

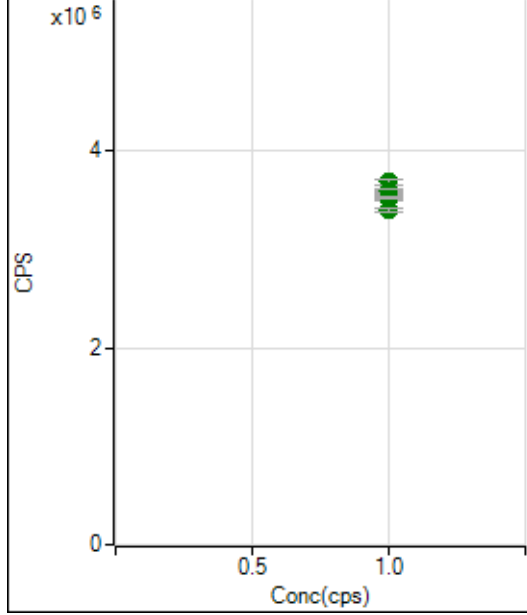
	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5992962.41		A	0.2
2	☐	1.000		5919753.94		A	1.2
3	☐	1.000		5954308.94		A	1.1
4	☐	1.000		5900392.34		A	1.2
5	☐	1.000		5857786.58		A	1.7
6	☐	1.000		5798443.45		A	0.9
7	☐	1.000		5879937.76		A	1.3
8	☐	1.000		6238265.11		A	2.4

165 Ho (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		5004545.73		A	2.0
2	☐	1.000		4947674.48		A	1.0
3	☐	1.000		4804390.66		A	0.9
4	☐	1.000		4913538.99		A	1.1
5	☐	1.000		4941326.52		A	2.0
6	☐	1.000		4926127.01		A	1.1
7	☐	1.000		5053950.73		A	1.1
8	☐	1.000		5171505.86		A	0.6

209 Bi (ISTD) [No Gas]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3490644.08		A	1.4
2	☐	1.000		3400937.45		A	1.1
3	☐	1.000		3440348.45		A	0.7
4	☐	1.000		3374915.54		A	1.8
5	☐	1.000		3499732.03		A	0.8
6	☐	1.000		3415929.04		A	1.8
7	☐	1.000		3435485.30		A	0.7
8	☐	1.000		3326319.46		A	0.2

209 Bi (ISTD) [He]

	Rj ct	Conc.	Calc Conc.	CPS	Ratio	Det .	RSD
1	☐	1.000		3684362.20		A	1.4
2	☐	1.000		3584020.57		A	1.5
3	☐	1.000		3515785.02		A	0.8
4	☐	1.000		3573371.79		A	1.2
5	☐	1.000		3579879.04		A	0.4
6	☐	1.000		3585255.43		A	1.5
7	☐	1.000		3524435.85		A	0.5
8	☐	1.000		3402748.04		A	1.2

US EPA Tune Check Report

Operator Name Jaswal

Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P7041625MS.b

Acq. Date-Time 2025-04-16 08:55:11

Report Comment ---

Instrument Name G8403A JP14410463

[No Gas]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
9		7050	70497.84			0.162	5.000
24		93811	938109.44			0.484	5.000
25		11078	110783.72			0.396	5.000
26		12225	122254.49			0.291	5.000
59		51049	510486.72			0.521	5.000
113		6993	69934.84			0.740	5.000
115		82355	823551.39			0.580	5.000
206		14534	145342.87			0.383	5.000
207		12727	127267.08			0.186	5.000
208		30268	302677.76			0.613	5.000
220		0	4.20			23.207	

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

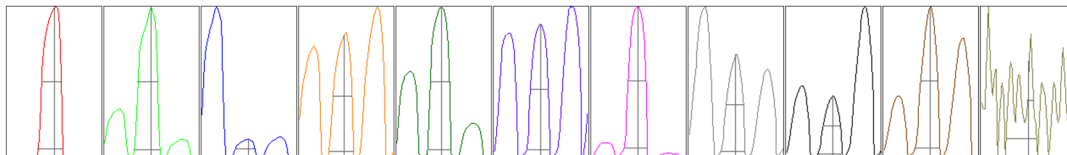
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	7053	7032	7063	7048	7052
24	93469	93937	94426	93952	93270
25	11040	11071	11072	11055	11153
26	12188	12225	12277	12198	12240
59	51330	51066	51225	50984	50639
113	6999	7051	7036	6938	6944
115	82395	82730	82831	82183	81638
206	14490	14627	14494	14542	14518
207	12686	12735	12728	12740	12745
208	29986	30303	30486	30215	30350

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	1

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	11984.43	9.05	8.90 - 9.10	
24	163614.99	24.00	23.90 - 24.10	
25	19356.34	25.00	24.90 - 25.10	
26	21305.43	25.95	25.90 - 26.10	
59	87145.34	58.95	58.90 - 59.10	
113	12993.64	113.00	112.90 - 113.10	
115	151506.84	115.00	114.90 - 115.10	
206	27870.12	206.00	205.90 - 206.10	
207	23962.49	207.00	206.90 - 207.10	
208	58596.14	208.00	207.90 - 208.10	
220	0.70	220.05	-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.775	0.900	
24	0.62	0.812	0.900	
25	0.61	0.741	0.900	
26	0.61	0.779	0.900	
59	0.62	0.741	0.900	
113	0.55	0.736	0.900	
115	0.55	0.742	0.900	
206	0.55	0.765	0.900	
207	0.54	0.771	0.900	
208	0.53	0.777	0.900	
220	0.19	0.952		

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

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

US EPA Tune Check Report

RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	6.8 V	Deflect	16.0 V
Extract 2	-105.0 V	Cell Entrance	-30 V	Plate Bias	-35 V
Omega Bias	-45 V	Cell Exit	-50 V		

Cell Parameters

Use Gas	No	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	0.0 mL/min	OctP Bias	-8.0 V		
H2 Flow	---	OctP RF	180 V		

QP Parameters

Mass Gain	137	Axis Gain	0.9975	QP Bias	-3.0 V
Mass Offset	130	Axis Offset	0.12		

Hardware Settings

Torch

Torch H	-0.2 mm	Torch V	0.3 mm
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EM

Discriminator	4.7 mV	Analog HV	2319 V	Pulse HV	1152 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		15750	157503.99			0.441	
89		53985	539845.21			0.526	
205		19641	196407.48			0.514	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	15838	15787	15735	15741	15651
89	54332	54132	53970	53924	53565
205	19807	19653	19618	19559	19566

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.87 L/min	Dilution Gas	0.40 L/min
RF Power	1600 W	Option Gas	---	Auxiliary Gas	0.90 L/min
RF Matching	1.80 V	Nebulizer Pump	0.10 rps	Plasma Gas	15.0 L/min
Sample Depth	8.8 mm	S/C Temp	2 °C		

Lens Parameters

Extract 1	0.0 V	Omega Lens	9.6 V	Deflect	3.8 V
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US EPA Tune Check Report

Extract 2	-135.0 V	Cell Entrance	-40 V	Plate Bias	-60 V
Omega Bias	-65 V	Cell Exit	-60 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	3.9 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	137	Axis Gain	0.9975	QP Bias	-13.0 V
Mass Offset	130	Axis Offset	0.12		
Hardware Settings					
Torch					
Torch H	-0.2 mm	Torch V	0.3 mm		
EM					
Discriminator	4.7 mV	Analog HV	2319 V	Pulse HV	1152 V