

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8080723MS.b
Acq. Date-Time 2023-08-07 14:40:17
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		6267	62668.48			3.682	5.000
24		260522	2605223.60			4.629	5.000
25		34384	343839.74			3.729	5.000
26		40522	405223.73			3.320	5.000
59		44591	445905.14			3.769	5.000
113		4995	49946.42			4.384	5.000
115		58910	589099.82			4.041	5.000
206		16193	161930.24			2.996	5.000
207		14335	143354.85			3.528	5.000
208		34852	348520.49			3.378	5.000
220		0	1.20			104.583	

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

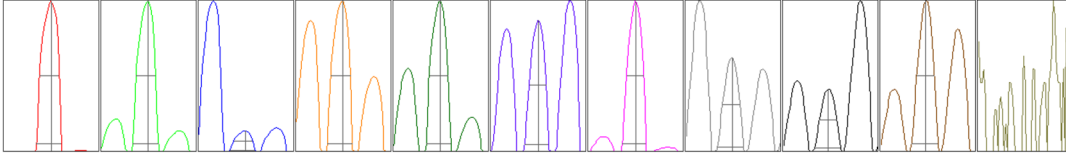
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	6430	5871	6357	6414	6263
24	272399	241848	264632	267849	255883
25	35407	32234	34811	35223	34245
26	41356	38410	41192	41677	39977
59	45613	41779	45743	45549	44269
113	5188	4644	5060	5147	4934
115	60262	54876	59821	60837	58754
206	16553	15392	16384	16544	16092
207	14559	13501	14636	14753	14228
208	35415	32852	35502	35743	34748

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	10718.72	9.05	8.90 - 9.10	
24	453107.77	24.00	23.90 - 24.10	
25	60204.44	25.00	24.90 - 25.10	
26	69173.68	26.00	25.90 - 26.10	
59	80729.74	59.00	58.90 - 59.10	
113	9662.02	113.05	112.90 - 113.10	
115	114489.15	115.05	114.90 - 115.10	
206	30198.49	206.00	205.90 - 206.10	
207	26626.15	206.95	206.90 - 207.10	
208	64788.29	207.95	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.62	0.783	0.900	
24	0.61	0.818	0.900	
25	0.60	0.787	0.900	
26	0.62	0.786	0.900	
59	0.59	0.780	0.900	
113	0.53	0.761	0.900	
115	0.54	0.752	0.900	
206	0.55	0.819	0.900	
207	0.54	0.824	0.900	
208	0.56	0.835	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode --- Nebulizer Gas 0.84 L/min Dilution Gas 0.40 L/min

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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	10.8 V	Deflect	13.6 V
Extract 2	-225.0 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	120 V		

QP Parameters

Mass Gain	124	Axis Gain	0.9994	QP Bias	-4.0 V
Mass Offset	124	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	1.5 mm	Torch V	-1.0 mm
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EM

Discriminator	4.7 mV	Analog HV	2307 V	Pulse HV	1639 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		11083	110833.28			0.617	
89		38201	382014.47			0.649	
205		15339	153391.73			1.541	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	11061	11075	11201	11054	11026
89	37909	38079	38459	38098	38462
205	15077	15302	15716	15235	15366

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	---	Nebulizer Gas	0.84 L/min	Dilution Gas	0.40 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	10.8 V	Deflect	3.4 V
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Extract 2	-225.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-115 V	Cell Exit	-70 V		
Cell Parameters					
Use Gas	Yes	3rd Gas Flow	---	Energy Discrimination	5.0 V
He Flow	4.5 mL/min	OctP Bias	-18.0 V		
H2 Flow	---	OctP RF	200 V		
QP Parameters					
Mass Gain	124	Axis Gain	0.9994	QP Bias	-13.0 V
Mass Offset	124	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	1.5 mm	Torch V	-1.0 mm		
EM					
Discriminator	4.7 mV	Analog HV	2307 V	Pulse HV	1639 V