

US EPA Tune Check Report

Operator Name Jaswal
Acq/Data Batch D:\Agilent\ICPMH\1\DATA\P8091420MM.b
Acq. Date-Time 2020-09-14 16:53:38
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		1839	18391.91			1.493	5.000
24		35718	357176.08			1.523	5.000
25		4653	46530.91			1.327	5.000
26		5532	55324.81			2.036	5.000
59		15839	158388.15			1.839	5.000
113		2495	24954.71			2.363	5.000
115		7325	73250.90			1.832	5.000
206		2520	25195.97			1.655	5.000
207		2074	20743.99			1.886	5.000
208		5129	51287.88			1.732	5.000
220		1	8.60			15.049	

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

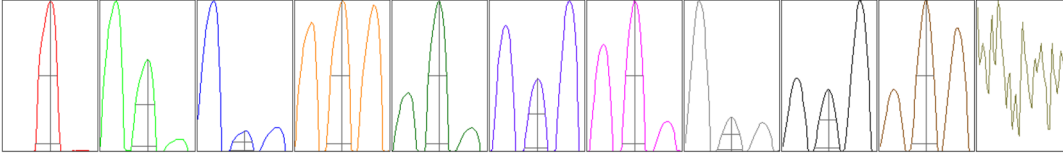
Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
9	1848	1843	1847	1865	1793
24	35744	35833	36162	36057	34792
25	4692	4644	4705	4674	4551
26	5560	5594	5608	5566	5334
59	15983	15865	15990	16027	15329
113	2521	2489	2509	2558	2400
115	7292	7369	7412	7445	7108
206	2509	2516	2527	2581	2465
207	2066	2067	2064	2140	2035
208	5094	5125	5141	5264	5020

US EPA Tune Check Report

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

Integration Time [sec] 0.1

Resolution/Axis



Mass	Peak Height	Axis	Axis (Required)	Axis (Flag)
9	3374.52	9.05	8.90 - 9.10	
24	63561.28	24.05	23.90 - 24.10	
25	8290.62	25.00	24.90 - 25.10	
26	9868.21	26.00	25.90 - 26.10	
59	29883.09	59.00	58.90 - 59.10	
113	4924.00	113.05	112.90 - 113.10	
115	14326.16	115.05	114.90 - 115.10	
206	4753.74	206.00	205.90 - 206.10	
207	3970.43	207.00	206.90 - 207.10	
208	9759.23	208.00	207.90 - 208.10	
220			-	

Mass	W-50%	W-5%	W-5% (Required)	W-5% (Flag)
9	0.58	0.772	0.900	
24	0.59	0.782	0.900	
25	0.60	0.742	0.900	
26	0.59	0.781	0.900	
59	0.56	0.734	0.900	
113	0.52	0.731	0.900	
115	0.53	0.730	0.900	
206	0.55	0.796	0.900	
207	0.54	0.800	0.900	
208	0.55	0.818	0.900	
220				

Integration Time [sec] 0.1

Acquisition Time [sec] 256.770000000002

Y Axis Linear

Tune Parameters

Plasma Parameters

Plasma Mode HMI Nebulizer Gas 0.51 L/min Dilution Gas 0.46 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	11.0 V	Deflect	13.8 V
Extract 2	-245.0 V	Cell Entrance	-30 V	Plate Bias	-50 V
Omega Bias	-120 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	200 V		

QP Parameters

Mass Gain	122	Axis Gain	0.9992	QP Bias	-4.0 V
Mass Offset	125	Axis Offset	0.01		

Hardware Settings

Torch

Torch H	0.7 mm	Torch V	-0.2 mm
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EM

Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V
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[He]

Sensitivity

Mass	Conc. [ug/l]	Count	CPS	Resp (Required) [cps/ug/l]	Resp (Flag)	RSD%	RSD% (Required)
59		4108	41076.97			2.648	
89		2491	24907.38			2.753	
205		6845	68445.43			2.828	

Mass	RSD% (Flag)
59	
89	
205	

Mass	Rep#1 Count	Rep#2 Count	Rep#3 Count	Rep#4 Count	Rep#5 Count
59	4160	4117	3917	4167	4176
89	2532	2494	2371	2523	2533
205	6992	6879	6509	6960	6883

Integration Time [sec] 0.1

Tune Parameters

Plasma Parameters

Plasma Mode	HMI	Nebulizer Gas	0.51 L/min	Dilution Gas	0.46 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	11.0 V	Deflect	4.6 V
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US EPA Tune Check Report

Extract 2	-245.0 V	Cell Entrance	-50 V	Plate Bias	-60 V
Omega Bias	-120 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	122	Axis Gain	0.9992	QP Bias	-13.0 V
Mass Offset	125	Axis Offset	0.01		
Hardware Settings					
Torch					
Torch H	0.7 mm	Torch V	-0.2 mm		
EM					
Discriminator	3.9 mV	Analog HV	2183 V	Pulse HV	1296 V