

Tune Report

Instrument Information

MS Model	G6546A	Run Date/Time	2025-01-22 17:17:14+00000
Serial Number	SG2301E201	Last Tuned by	SYSTEM
Firmware Revision	27.851	Last Modified by	SYSTEM
Source Type	Dual AJS ESI	Slicer Mode	High Resolution (Position: 5)
Mass Range	Low (1700 m/z)	Instrument Mode	Standard Resolution (10GHz)
Ion Polarity	Positive	Tune Type	TOFMassCalibration-1700mzRange
SureMass Optimization	Not Enabled		
Tune File Name	TOFMassCalibration-1700mzRange.tun		

Positive Polarity Results

TOF Results

TOF Mass Calibration Data

Theoretical	Actual	Time	Abundance	Calibration Abundance	Resolution	Primary Residuals	Corrected Residuals
118.086255	118.086254	29.121684	455,216	474,016	32,935	-7.18	-0.01
322.048121	322.048141	47.276896	341,879	353,813	39,925	-0.44	0.06
622.028960	622.028907	65.216258	294,064	315,871	39,742	0.61	-0.09
922.009798	922.009871	79.127271	335,768	364,213	40,458	0.68	0.08
1221.990637	1221.990530	90.905127	232,118	261,579	38,092	0.09	-0.09
1521.971475	1521.971545	101.306022	150,164	170,675	35,808	-0.35	0.05

Setpoints

Source Settings

Gas Temperature(°C)	325	Drying Gas(l/min)	5.0
Nebulizer Pressures(psi)	20	Capillary(V)	4000
Sheath Gas Temperature(°C)	275	Sheath Gas Flow(l/min)	12.0
Nozzle Voltage(V)	2000		

Source Actuals

Gas Temperature(°C)	326	Drying Gas(l/min)	5.0
Nebulizer Pressures(psi)	20	Capillary(V)	3996
Cap Current(µA)	4.950	Chamber Current(µA)	0.38

Optics 1

Fragmentor(V)	165	Skimmer(V)	45.0
Oct 1 RF Vpp(V)	750	Oct 1 DC(V)	29.4
Lens 1(V)	28.0	Lens 2(V)	17.6
Lens 2 RF Enable(False/True)	1	Lens 2 RF Voltage(V)	0
Lens 2 RF Phase(deg)	36		

Quad

TTI Quad AMU(amu)	100.0	Quad DC(V)	26.5
Post Filter DC(V)	26.4		

Cell

Collision Cell Gas Flow(psi)	22.0	Hex RF(V)	550
Hex DC(V)	24.5	Hex Delta(V)	-7.0
Cell Entrance(V)	25.9	Hex 2 RF(V)	600
Hex 2 DC(V)	17.5	Hex 2 DV(V)	-1.0

Optics 2

Ion Focus(V)	14.3	Extractor DC(V)	-19.4
Lens 3(V)	-60.0	Bottom Slit(V)	-37.95
Top Slit(V)	-40.10	Hex 3 DC(V)	16.2

TOF

Pusher(V)	1200	Pusher Offset(mV)	-133
Puller(V)	-700	Puller Offset(V)	43
Acc Focus(V)	-2132	Front Mirror(V)	-9000
Mid Mirror(V)	-2253.7	Back Mirror(V)	1475
Minimum Mass(m/z)	50	Maximum Mass(m/z)	1700
Acquisition Rate	1.0	Acquisition Time	1000
Acq Hold Off Delay (ns)(ns)	0		

Detector

MCP(V)	706	PreAmpOffset(DAC)	1036
Low Gain PreAmpOffset(DAC)	1084	Gain Abund Ratio	12.0
Gain T0 Offset	-0.170		

Vacuum And Temperatures

Quad Temp(°C)	100	Rough Vac(Torr)	2.21E+00
Quad Vac(Torr)	6.50E-05	TOF Vac(Torr)	1.04E-07
Turbo 1 Speed(%)	100.0	Turbo 1 Power(W)	216
Turbo 2 Speed(%)	100.0	Turbo 2 Power(W)	25

TOF Mass Calibration Coefficients

a	3899.147E-04	t0	1252.227E-03	a2	-1374.929E-06
b2	6721.751E-10	c2	-5808.196E-14	d2	-8151.476E-22
e2	0000.000E+00	f2	0000.000E+00	Term Flag	0x0055
Trad	0	Poly	6		