

Tune Report

Instrument Information

MS Model	G6546A	Run Date/Time	2025-02-05 16:57:09+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	Negative	Tune Type	TOFMassCalibration-1700mzRange
SureMass Optimization	Not Enabled		
Tune File Name	TOFMassCalibration-1700mzRange.tun		

Negative Polarity Results

TOF Results

TOF Mass Calibration Data

Theoretical	Actual	Time	Abundance	Calibration Abundance	Resolution	Primary Residuals	Corrected Residuals
112.985587	112.985586	28.522713	271,799	272,572	32,219	-6.02	0.00
301.998139	301.998143	45.835943	10,685	10,614	41,387	-1.10	0.01
601.978977	601.978971	64.197253	283,075	323,833	46,195	0.90	-0.01
1033.988109	1033.988101	83.746966	588,690	735,779	54,208	0.53	-0.01
1333.968947	1333.968968	94.952396	449,198	612,898	52,898	-0.04	0.02
1633.949786	1633.949775	104.954010	188,095	264,901	45,444	-0.24	-0.01

Setpoints

Source Settings

Gas Temperature(°C)	325	Drying Gas(l/min)	5.0
Nebulizer Pressures(psi)	20	Capillary(V)	3500
Sheath Gas Temperature(°C)	275	Sheath Gas Flow(l/min)	12.0
Nozzle Voltage(V)	2000		

Source Actuals

Gas Temperature(°C)	327	Drying Gas(l/min)	5.0
Nebulizer Pressures(psi)	20	Capillary(V)	3492
Cap Current(µA)	4.286	Chamber Current(µA)	0.31

Optics 1

Fragmentor(V)	-165	Skimmer(V)	-45.0
Oct 1 RF Vpp(V)	750	Oct 1 DC(V)	-27.4
Lens 1(V)	-26.6	Lens 2(V)	-17.5
Lens 2 RF Enable(False/True)	1	Lens 2 RF Voltage(V)	0
Lens 2 RF Phase(deg)	180		

Quad

TTI Quad AMU(amu)	119.4	Quad DC(V)	-23.0
Post Filter DC(V)	-22.9		

Cell

Collision Cell Gas Flow(psi)	22.0	Hex RF(V)	550
Hex DC(V)	-21.5	Hex Delta(V)	7.0
Cell Entrance(V)	-22.5	Hex 2 RF(V)	600
Hex 2 DC(V)	-14.5	Hex 2 DV(V)	1.0

Optics 2

Ion Focus(V)	-12.1	Extractor DC(V)	19.8
Lens 3(V)	58.9	Bottom Slit(V)	39.05
Top Slit(V)	40.15	Hex 3 DC(V)	-13.3

TOF

Pusher(V)	-1200	Pusher Offset(mV)	0
Puller(V)	700	Puller Offset(V)	-37
Acc Focus(V)	2152	Front Mirror(V)	9000
Mid Mirror(V)	2250.1	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)	703	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)	2.23E+00
Quad Vac(Torr)	6.41E-05	TOF Vac(Torr)	1.12E-07
Turbo 1 Speed(%)	100.0	Turbo 1 Power(W)	221
Turbo 2 Speed(%)	100.0	Turbo 2 Power(W)	25

TOF Mass Calibration Coefficients

a	3897.972E-04	t0	1253.567E-03	a2	-2619.629E-09
b2	6948.787E-11	c2	-1021.320E-14	d2	5851.157E-17
e2	0000.000E+00	f2	0000.000E+00	Term Flag	0x006C
Trad	0	Poly	6		