

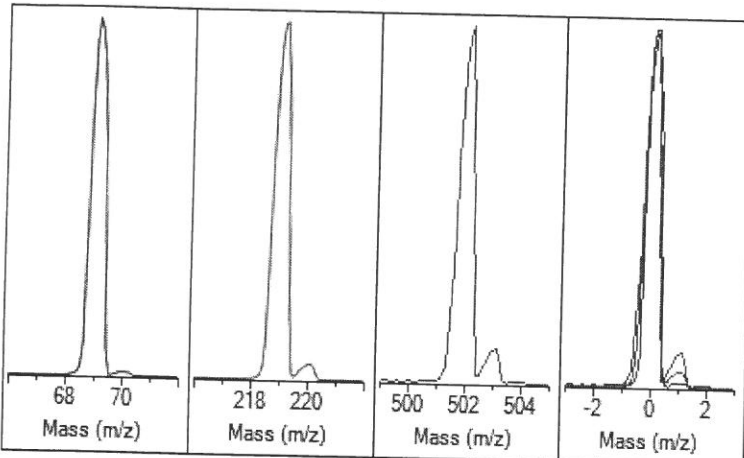
Autotune - 5975

Tune timestamp: 13/10/2021 09:24 (UTC+01:00)

5975BJaytee

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US65145087



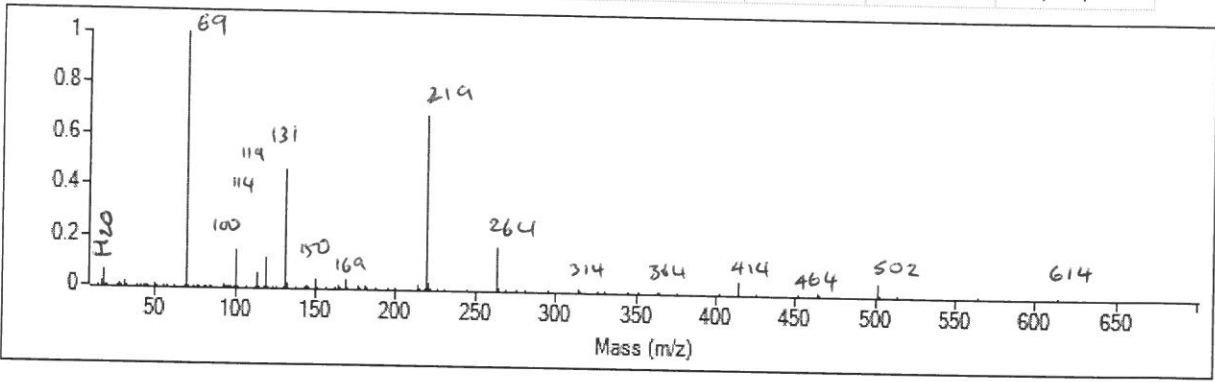
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-174
Electron Energy	70.3	Mass Offset	-38
Filament	1	Amu Gain	1590
Repeller	34.96	Amu Offset	127.75
Ion Focus	81.6	Width219	-0.012
Entrance Lens	32.0	DC Polarity	Pos
Ent Lens Offset	15.56	HED Enable	On
		EM Volts	882
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

excellent

Actual m/z	Abund	Rel Abund	Pw50
69.00	497,664	100.0%	0.60
219.10	331,143	66.5%	0.60
502.10	25,880	5.2%	0.60

Temperatures and Pressures		
MS Source	230	Turbo Speed 100.0
MS Quad	150	Hi Vac 2.72e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	136	69.00	501,184	1,595,015



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	501,184	100.0%	70.00	5,398	1.1%
219.00	219.00	342,400	68.3%	220.00	14,736	4.3%
502.00	502.00	25,600	5.1%	503.00	2,385	9.3%

Air/Water Check: H2O ~6.4% N2 ~0.9% O2 ~0.4% CO2 ~0.3% N2/H2O ~13.3%

Column(1) Flow: N/A Column(2): N/A ml/min Interface Temp: N/A

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 130509.762

Repeller maximum 35 volts using ion 219; Gain Factor 1.3051

Mass Gain Values(Scan Speed): -170(3) -166(2) -147(1) -129(0) -77(FS1) -76(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	127.8	127.8	127.8	127.8	127.8	127.8	127.8
Entrance Lens Offset	15.6	15.6	15.6	15.6	15.6	15.6	15.6

PFTBA calibration - Filament 1

[Signature] 13/10/2021
ST-5372

System Verification - Tune (Detector Optimization) Portion

Instrument Name : 5975BJaytee
 DC Polarity : Positive
 Filament 1
 Current Vacuum status : High Vacuum: 7.28E-07 Torr Turbo:100%

BasePeak should be 69 or 219		
Position of mass 69		OK
Position of mass 219	69.00	OK
Position of mass 502	219.00	OK
Position of isotope mass 70	502.00	OK
Position of isotope mass 220	70.03	OK
Position of isotope mass 503	220.00	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	503.01	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	1.12	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	4.30	OK
Ratio of 219 to 69 should be > 40% and is	10.04	OK
Ratio of 502 to 69 should be > 2.4% and is	70.31	OK
	5.21	OK
Mass 69 Precursor (<= 3%)	0.17	OK
Mass 219 Precursor (<= 6%)	1.26	OK
Mass 502 Precursor (<= 12%)	4.01	OK

597x Air and Water Check

Wed Oct 13 09:28:07 2021

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Instrument: 5975BJaytee
 US65145087

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	6.34	OK
Ratio of 28 to 69 (<10%)	0.89	OK

Electron Multiplier Voltage	882	OK
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Tune portion of System Verification passed.

Filament 1

 13/10/21

ST-5372

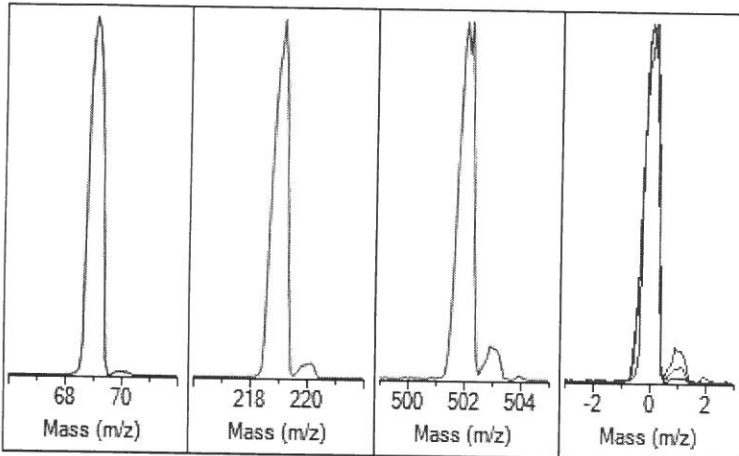
Autotune - 5975

Tune timestamp: 13/10/2021 09:38 (UTC+01:00)

5975BJaytee

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US65145087

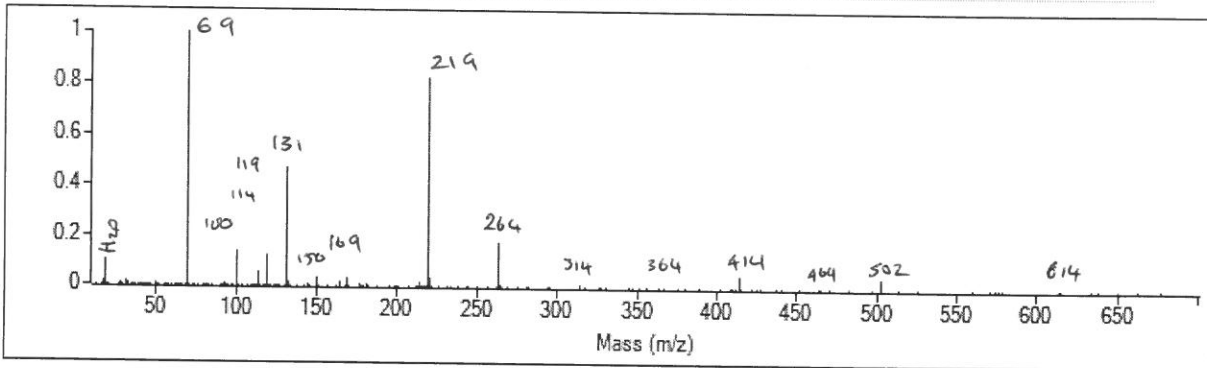


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-166
Electron Energy	70.3	Mass Offset	-39
Filament	2	Amu Gain	1595
Repeller	34.96	Amu Offset	128.25
Ion Focus	90.2	Width219	0.008
Entrance Lens	16.0	DC Polarity	Pos
Ent Lens Offset	15.31	HED Enable	On
		EM Volts	1035
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	472,566	100.0%	0.60
219.10	396,052	83.8%	0.60
502.20	22,422	4.7%	0.62

Temperatures and Pressures		
MS Source	230	Turbo Speed 100.0
MS Quad	150	Hi Vac 2.70e-06

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	300	69.00	468,672	1,617,642



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	468,672	100.0%	70.00	4,530	1.0%
219.00	219.00	387,712	82.7%	220.00	15,416	4.0%
502.00	502.10	19,552	4.2%	503.00	2,565	13.1%

Air/Water Check: H2O ~10.0% N2 ~1.3% O2 ~0.5% CO2 ~0.5% N2/H2O ~13.1%

Column(1) Flow: N/A Column(2): N/A ml/min Interface Temp: N/A

Ramp Criteria:


Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 549200.681

Repeller maximum 35 volts using ion 219; Gain Factor 5.4920

Mass Gain Values(Scan Speed): -165(3) -162(2) -142(1) -132(0) -97(FS1) -44(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	128.3	128.3	128.3	128.3	128.3	128.3	128.3
Entrance Lens Offset	15.3	15.3	15.3	15.3	15.3	15.3	15.3

PFTBA calibrates Filament 2

 13/10/2021
 ST-5372

System Verification - Tune (Detector Optimization) Portion

Instrument Name : 5975BJaytee
 DC Polarity : Positive
 Filament 2
 Current Vacuum status : High Vacuum: 7.29E-07 Torr Turbo:100%

BasePeak should be 69 or 219		OK
Position of mass 69	69.00	OK
Position of mass 219	219.00	OK
Position of mass 502	502.08	OK
Position of isotope mass 70	70.03	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.05	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.12	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.29	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	9.64	OK
Ratio of 219 to 69 should be > 40% and is	84.21	OK
Ratio of 502 to 69 should be > 2.4% and is	4.78	OK
Mass 69 Precursor (<= 3%)	0.17	OK
Mass 219 Precursor (<= 6%)	0.88	OK
Mass 502 Precursor (<= 12%)	2.70	OK

597x Air and Water Check

Wed Oct 13 09:43:52 2021

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Instrument: 5975BJaytee
 US65145087

Testing for a leak in the system

Ratio of 18 to 69 (<20%)	9.60	OK
Ratio of 28 to 69 (<10%)	1.46	OK

Electron Multiplier Voltage	1035	OK
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Tune portion of System Verification passed.

Filament 2