Autotune - 5977

Tune timestamp: 4/15/2020 8:54 AM (UTC-05:00) GCMS

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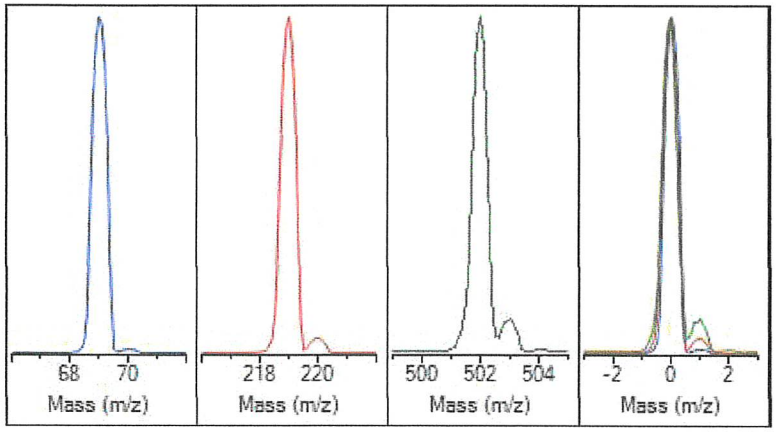


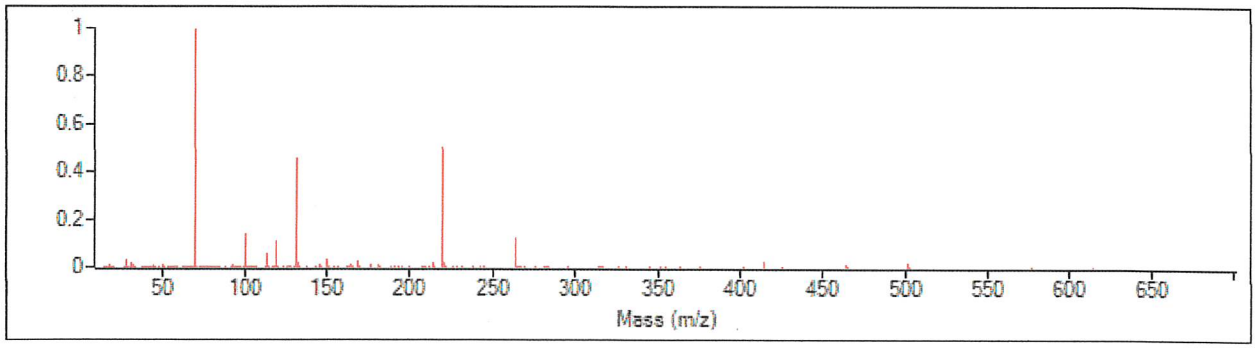
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	254
Electron Energy	70.0	Mass Offset	-25
Filament	1	Amu Gain	2696
Repeller	34.90	Amu Offset	139.06
Ion Focus	83.4	Width219	-0.005
Entrance Lens	12.6	DC Polarity	Pos
Ent Lens Offset	14.77	HED Enable	On
Ion Body	0.00	EM Volts	939.4
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	521,678	100.0%	0.61
219.00	266,072	51.0%	0.60
502.00	9,423	1.8%	0.56

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.03e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	156	69.00	504,896	1,422,029



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	504,896	100.0%	70.00	5,656	1.1%
219.00	219.00	254,784	50.5%	220.00	10,986	4.3%
502.00	502.00	8,954	1.8%	503.00	898	10.0%

Air/Water Check: H20 ~1.4% N2 ~3.2% O2 ~0.9% CO2 ~0.8% N2/H20 ~234.7%

Column(1) Flow: 1.00 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 44144.851

Repeller maximum 35 volts using ion 219; Gain Factor 0.4414

Mass Gain Values(Scan Speed): 260(3) 274(2) 285(1) 311(0) 364(FS1) 363(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	139.1	139.1	139.1	139.1	139.1	139.1	139.1
Entrance Lens Offset	14.8	14.8	14.8	14.8	14.8	14.8	14.8

Autotune - 5977

Tune timestamp: 4/15/2020 8:44 AM (UTC-05:00)

GCMS

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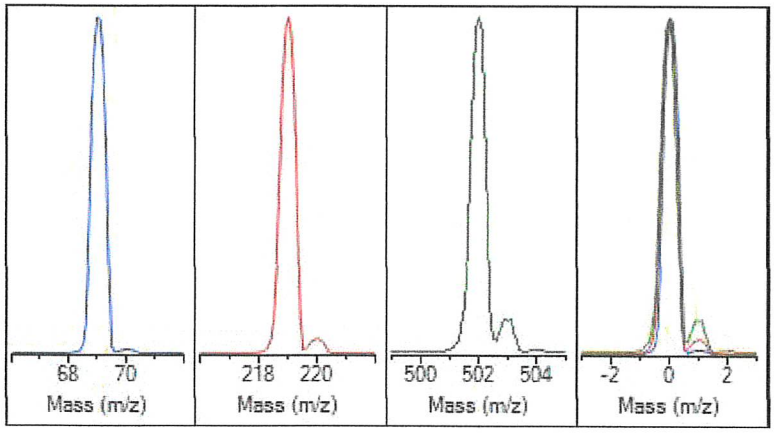


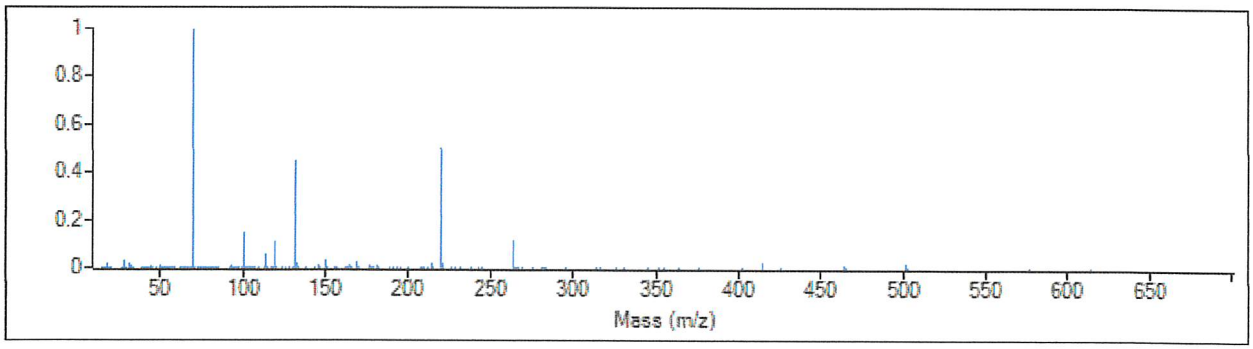
Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	253
Electron Energy	70.0	Mass Offset	-24
Filament	1	Amu Gain	2697
Repeller	34.90	Amu Offset	139.06
Ion Focus	85.4	Width219	-0.001
Entrance Lens	12.6	DC Polarity	Pos
Ent Lens Offset	14.77	HED Enable	On
Ion Body	0.00	EM Volts	932.4
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	491,464	100.0%	0.60
219.00	251,141	51.1%	0.59
502.00	8,672	1.8%	0.60

Temperatures and Pressures

MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.03e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	155	69.00	474,304	1,341,119



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	474,304	100.0%	70.00	5,560	1.2%
219.00	219.00	239,680	50.5%	220.00	10,337	4.3%
502.00	502.00	7,807	1.6%	503.00	766	9.8%

Air/Water Check: H20 ~1.5% N2 ~3.3% O2 ~1.0% CO2 ~0.8% N2/H20 ~218.1%

Column(1) Flow: 1.00 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 38802.067

Repeller maximum 35 volts using ion 219; Gain Factor 0.3880

Mass Gain Values(Scan Speed): 260(3) 268(2) 287(1) 310(0) 363(FS1) 362(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	139.1	139.1	139.1	139.1	139.1	139.1	139.1
Entrance Lens Offset	14.8	14.8	14.8	14.8	14.8	14.8	14.8

Instrument Name : GCMS
DC Polarity : Positive
Filament 1
Current Vacuum status :High Vacuum: 8.38E-06 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	502.00	OK
Position of isotope mass 70	70.00	OK
Position of isotope mass 220	220.00	OK
Position of isotope mass 503	503.01	OK
Ratio of mass 70 to mass 69(0.5 - 1.6%)	1.13	OK
Ratio of mass 220 to mass 219(3.2 - 5.4%)	4.35	OK
Ratio of mass 503 to mass 502(7.9 - 12.3%)	10.18	OK
Ratio of 219 to 69 should be > 40% and is	52.00	OK
Ratio of 502 to 69 should be > 2.4% and is	1.84	Low

Possible causes include: Bad vacuum, vacuum leaks or faulty pumps
Bad filament being used
Dirty ion source

Mass 69 Precursor (<= 3%)	0.15	OK
Mass 219 Precursor (<= 6%)	0.84	OK
Mass 502 Precursor (<= 12%)	2.73	OK

597x Air and Water Check
Wed Apr 15 09:05:41 2020 Instrument: GCMS
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Testing for a leak in the system

Ratio of 18 to 69 (<20%)	1.33	OK
Ratio of 28 to 69 (<10%)	3.13	OK

Electron Multiplier Voltage	939	OK

One or more specifications was out of range.
Please correct before continuing.

Failure of one or more tests may be caused by
selecting the wrong DC Polarity.
Please verify that the correct DC Polarity has been set
by removing the detector cover and checking the label
at the top of the EID.