

# Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

## GC-MS Maintenance Log

Instrument: GCMS-3

Date	He Tank Pressure	Air Tank Pressure*	H <sub>2</sub> Water Level*	Auto Tune	Septum Change	Wash Vials Filled	Syringe Washed	Rough Pump Oil Level Checked	Liner Change	Gold Seal Replaced	Column Cut	Computer Restarted	Output*	Comments	Analyst
			H <sub>2</sub> Pressure*										Bead Voltage*		
2/11/21	70 850	N/A	N/A	✓	✓	✓	✓	✓	✓	<del>✓</del>	<del>✓</del>	✓	N/A	Blood vial cartridge 20 - 2/21/2021	VC
2/13/21	70 850	n/a	n/a	✓	X	✓	✓	✓	X	X	X	X	n/a		mh
2/18/21 mh															

\*For GC-MS/NPD instrument (GCMS-5).

Signature: Melina Henry

Date Completed: 2/18/21

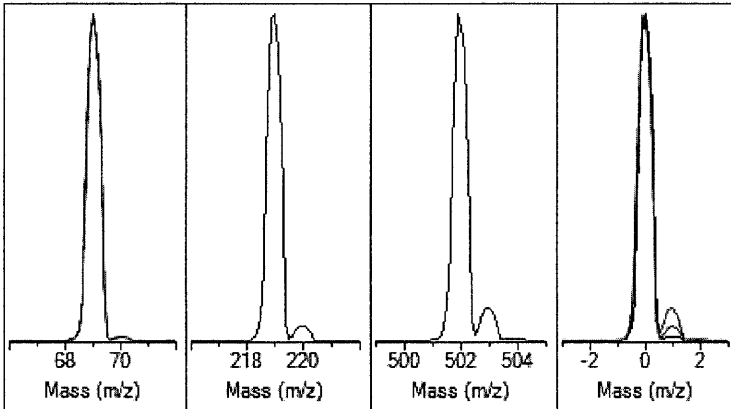
# Autotune - 5975

Tune timestamp: 2/1/2021 10:16 AM (UTC-06:00)

GCMS-3

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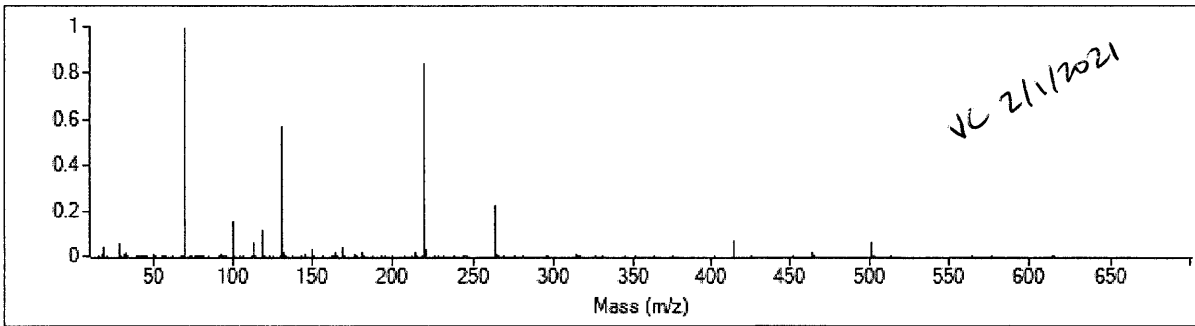


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-837
Electron Energy	70.3	Mass Offset	-37
Filament	1	Amu Gain	1586
Repeller	25.37	Amu Offset	118.81
Ion Focus	90.2	Width219	-0.029
Entrance Lens	32.0	DC Polarity	Pos
Ent Lens Offset	17.57	HED Enable	On
		EM Volts	1318
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	360,762	100.0%	0.60
219.00	304,122	84.3%	0.60
501.90	23,480	6.5%	0.59

Temperatures and Pressures		
MS Source	230 Foreline	51.323
MS Quad	150 Hi Vac	Off

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	129	69.00	342,528	1,243,824



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	342,528	100.0%	70.00	3,708	1.1%
219.00	219.00	288,832	84.3%	220.00	12,270	4.2%
502.00	502.00	22,016	6.4%	503.00	2,247	10.2%

Air/Water Check: H2O ~4.3% N2 ~5.4% O2 ~1.5% CO2 ~0.4% N2/H2O ~125.6%

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 35467.584

Repeller maximum 35 volts using ion 219; Gain Factor 0.3547

Mass Gain Values(Scan Speed): -825(3) -819(2) -806(1) -781(0) -695(FS1) -694(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		118.8	118.8	118.8	118.8	118.8	118.8
Entrance Lens Offset		17.6	17.6	17.6	17.6	17.6	17.6

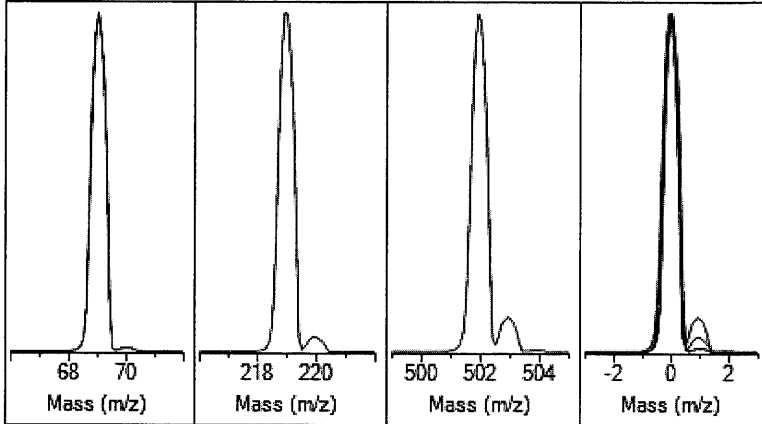
# Autotune - 5975

Tune timestamp: 2/3/2021 10:54 AM (UTC-06:00)

GCMS-3

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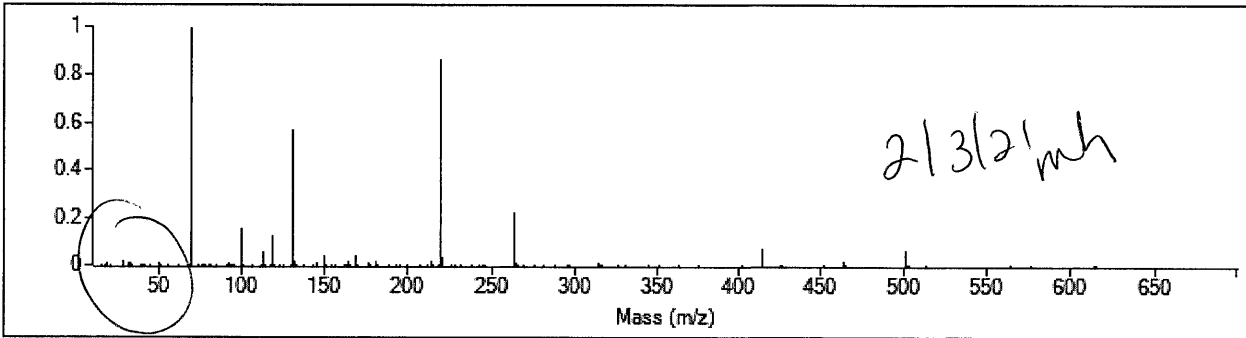


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-845
Electron Energy	70.3	Mass Offset	-37
Filament	1	Amu Gain	1585
Repeller	25.20	Amu Offset	119.13
Ion Focus	90.2	Width219	-0.025
Entrance Lens	32.0	DC Polarity	Pos
Ent Lens Offset	17.57	HED Enable	On
		EM Volts	1294
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	378,853	100.0%	0.60
218.90	324,173	85.6%	0.60
501.90	25,745	6.8%	0.60

Temperatures and Pressures		
MS Source	230 Foreline	51.866
MS Quad	150 Hi Vac	Off

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	121	69.00	361,408	1,282,676



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	361,408	100.0%	70.00	3,763	1.0% ✓
219.00	219.00	311,936	86.3%	220.00	12,957	4.2% ✓
502.00	502.00	23,928	6.6%	503.00	2,468	10.3% ✓

Air/Water Check: H2O ~0.7% N2 ~1.5% O2 ~0.5% CO2 ~0.1% N2/H2O ~209.7%  
 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 27653.341  
 Repeller maximum 35 volts using ion 219; Gain Factor 0.2765

Mass Gain Values(Scan Speed): -833(3) -824(2) -814(1) -788(0) -701(FS1) -700(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		119.1	119.1	119.1	119.1	119.1	119.1
Entrance Lens Offset		17.6	17.6	17.6	17.6	17.6	17.6