

Houston Forensic Science Center

Comparative and Analytical Division - Toxicology

GC-MS Maintenance Log

Instrument: GCMS-3

Date	He Tank Pressure	Air Tank Pressure*	H ₂ 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 ₂ Pressure*										Bead Voltage*		
1/26/21	70 950	N/A	N/A	✓	✓	✓	✓	✓	✓	✓	X	✓	N/A N/A	Blood validation day 1. -vc 1/27/2021	VC
1/28/21	75 900	n/a	n/a	✓	X	✓	✓	✓	✓	X	X	✓	n/a	Blood val. x22 ca meq. M	REV
1/29/2021 mch															

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

Signature: Melina Henry

Date Completed: 1/29/2021

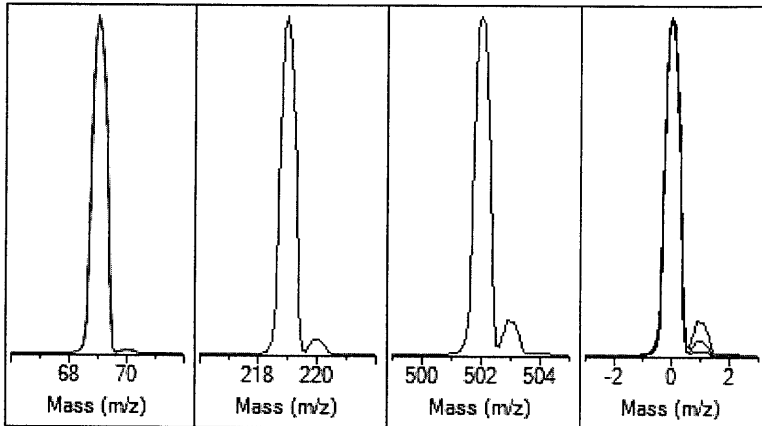
Autotune - 5975

Tune timestamp: 1/26/2021 9:02 AM (UTC-08:00)

GCMS-3

D:\MASSHUNTER\GCMS\1\5975\ATUNE.U

US92013456

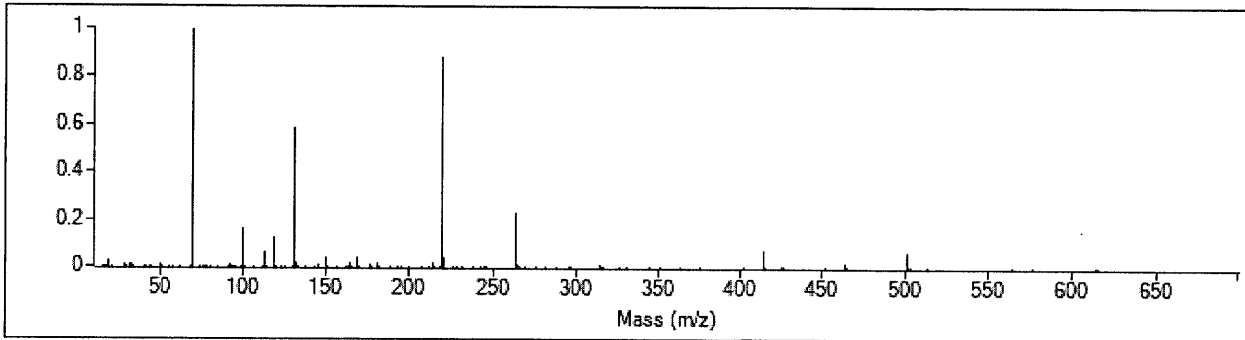


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-833
Electron Energy	70.3	Mass Offset	-36
Filament	1	Amu Gain	1585
Repeller	24.87	Amu Offset	118.44
Ion Focus	90.2	Width219	-0.028
Entrance Lens	35.0	DC Polarity	Pos
Ent Lens Offset	17.32	HED Enable	On
		EM Volts	1282
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	392,536	100.0%	0.60
219.00	351,812	89.6%	0.60
502.00	25,774	6.6%	0.60

Temperatures and Pressures		
MS Source	230 Foreline	52.411
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	374,080	1,360,941



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	374,080	100.0%	70.00	4,051	1.1%
219.00	219.00	331,200	88.5%	220.00	14,908	4.5%
502.00	502.00	24,616	6.6%	503.00	2,603	10.6%

Air/Water Check: H2O ~2.5% N2 ~1.2% O2 ~0.4% CO2 ~0.2% N2/H2O ~49.2%

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 27823.164

Repeller maximum 35 volts using ion 219; Gain Factor 0.2782

Mass Gain Values(Scan Speed): -833(3) -818(2) -809(1) -785(0) -699(FS1) -698(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		118.4	118.4	118.4	118.4	118.4	118.4
Entrance Lens Offset		17.3	17.3	17.3	17.3	17.3	17.3

VC
1/26/2021

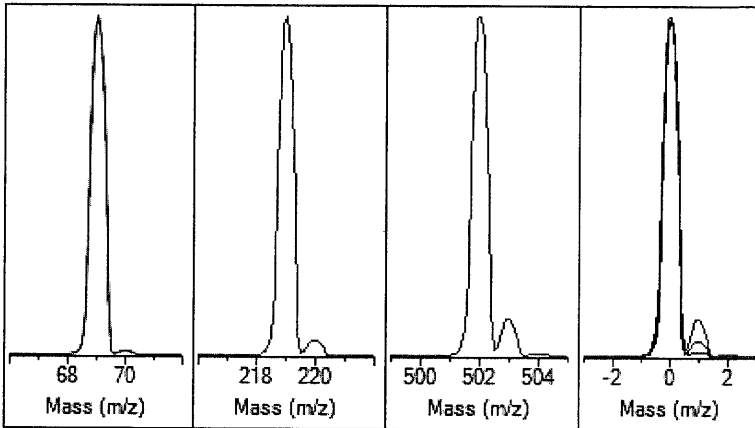
Autotune - 5975

Tune timestamp: 1/28/2021 8:35 AM (UTC-08:00)

GCMS-3

D:\MASSHUNTER\GCMS\1\5975\ATUNE.U

US92013456

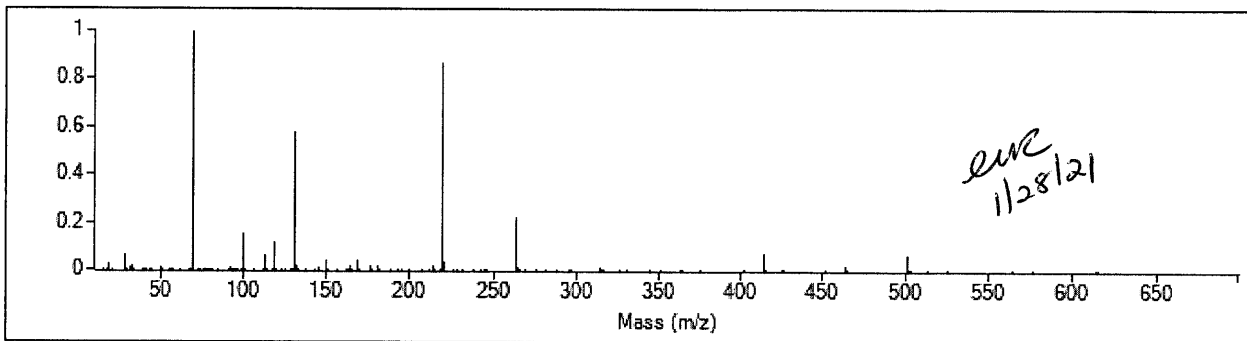


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-838
Electron Energy	70.3	Mass Offset	-37
Filament	1	Amu Gain	1586
Repeller	24.87	Amu Offset	118.63
Ion Focus	90.2	Width219	-0.030
Entrance Lens	32.0	DC Polarity	Pos
Ent Lens Offset	17.57	HED Enable	On
		EM Volts	1306
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00 ✓	425,682	100.0%	0.60 ✓
219.00 ✓	371,646	87.3%	0.60 ✓
502.00 ✓	27,629	6.5%	0.61 ✓

Temperatures and Pressures		
MS Source	230 Foreline	51.053
MS Quad	150 Hi Vac	Off

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	134	69.00	406,400	1,490,473



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	406,400 ✓	100.0% ✓	70.00	4,511	1.1% ✓
219.00	219.00	350,784 ✓	86.3% ✓	220.00	14,915	4.3% ✓
502.00	502.00	26,720 ✓	6.6% ✓	503.00	2,743	10.3% ✓

Air/Water Check: H2O ~2.6% N2 ~6.8% O2 ~1.8% CO2 ~0.2% N2/H2O ~257.2%

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 35284.695

Repeller maximum 35 volts using ion 219; Gain Factor 0.3528

Mass Gain Values(Scan Speed): -831(3) -825(2) -810(1) -785(0) -698(FS1) -697(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset		118.6	118.6	118.6	118.6	118.6	118.6
Entrance Lens Offset		17.6	17.6	17.6	17.6	17.6	17.6