

Validation Review

Procedure Performance check Agilent 6890/5973N GC/MS
CN 42229050 / US03960484

Check the appropriate box: New Validation ☐ Modification ☐ Performance Check ☒

Sign and Date to indicate your acceptance of the procedure/instrument:

Examiner (if applicable) Ellen Carter for William Stanton Date 7/11/17

Unit Supervisor Glenn B. Everett Date 7-11-17

Technical Leader (if different than Supervisor) Glenn B. Everett Date 7-11-17

Crime Laboratory Regional Supervisor Jennifer Hall Date 7.11.17

Quality Assurance Manager CW D. J. 2 Date 07/11/17

*All information must be submitted to the Quality Assurance Manager prior to the implementation of the procedure/instrument. If all technical staff training has not been completed, please include a proposed training plan and completion schedule.

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)

Mass Spectrometer (Model 5973N Serial Number US03960484)

TBI FCU ID – Graceland

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Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
Mass Spectrometer (Model 5973N Serial Number US03960484)
TBI FCU ID – Graceland

1. Purpose:

Each gas chromatograph/mass spectrometer (GC/MS) acquired by the TBI FCU must demonstrate that it will accurately reproduce spectra previously obtained within the laboratory as well as provide adequate separation of complex mixtures using FCU validated methods.

Although properly maintained instruments all adhere to the theories of chromatography, unique factors may exist within each system that can affect retention times between different instruments.

This performance verification will assess the following:

- The chromatograph's ability to separate a mixture of method-appropriate standards with baseline resolution and appropriate elution order
- The chromatograph's ability to reproduce retention times (RT) of standards within $\pm 2\%$ of each other
- The spectrometer's ability to generate accurate spectra of these standards compared to previously run laboratory standard spectra
- The instrument's ability to detect certain late eluting compounds for the MS DRUGS100, MS100TR, and MS200TR methods

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
Mass Spectrometer (Model 5973N Serial Number US03960484)
TBI FCU ID – Graceland

2. Components and Methods Currently in Use:

Instrument Components

Gas Chromatograph		Mass Spectrometer (Single quadrupole)	
Column type	HP-1MS 19091S-913	Column type	HP-1MS 1909S-602
Column length	15 meters	Column length	12.5 meters
Diameter	0.320 mm	Diameter	0.200 mm
Film Thickness	0.25 µm	Film Thickness	0.33 µm
Detector	FID	MSD Source	Extraction Source

GC/MS Methods

Manual Injection		Auto-sample Injection	
MSDRUGS100	100-280°C for 10 mins	ASMSDRUGS100	100-280°C for 10 mins
MSDRUGS200	200-280°C for 10 mins	ASMSDRUGS200	200-280°C for 10 mins
MSDRUGS60	60-280°C for 10 mins	ASMSDRUGS60	60-280°C for 10 mins
MSDRUGSTI	100-280°C for 30 mins	ASMSDRUGSTI	100-280°C for 30 mins
MS280ISO	280°C isothermal for 20 mins	AMS280ISO	280°C isothermal for 20 mins
MS100TR	100-280°C for 6 mins	ASMS100TR	100-280°C for 6 mins
MS200TR	200-280°C for 6 mins	ASMS200TR	200-280°C for 6 mins

GC Methods

Manual Injection		Auto-sample Injection	
GC100	100-280°C for 10 mins	ASGC100	100-280°C for 10 mins
GC200	200-280°C for 10 mins	ASGC200	200-280°C for 10 mins
GC150ISO	150°C for 10 mins	ASGC150ISO	150°C for 10 mins
GC280ISO	280°C Isothermal for 10 mins	ASGC280ISO	280°C Isothermal for 10 mins
GC280ISOTI	280°C isothermal for 30 mins	ASGC280ISOTI	280°C isothermal for 30 mins

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
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3. Procedure:

In general, lower molecular weight compounds will often elute at lower temperatures. The inverse is true for higher molecular weight compounds. Similarly, the compound's interaction with the column's stationary phase will also affect retention time for various compounds.

Since the FCU encounters a wide variety of legally significant substances, the methods developed in our laboratory are tailored to provide adequate separation while accounting for these variables. In order to determine adequate separation of closely eluting compounds, different standard mixtures will be analyzed using the appropriate method(s). Spectra generated from these standards will be compared to primary standard spectra maintained in the FCU.

Adequate separation will consist of separate and symmetrical peaks that are resolved to the baseline on the resulting chromatogram and/or total ion chromatogram (TIC).

Mass spectra generated must show adequate ion response as well as the correct ion fragmentation patterns as the primary standard.

A working mixture of amphetamine, phentermine, and methamphetamine will be analyzed using the following methods:

- | | |
|----------------|---------------|
| • MSDRUGS100 | • ASMSDRUGS60 |
| • ASMSDRUGS100 | • GC100 |
| • MS100TR | • ASGC100 |
| • ASMS100TR | • GC150ISO |
| • MSDRUGS60 | • ASGC150ISO |

Analyzing this mixture using methods starting at 200°C is not advisable due to the low molecular weights of these compounds. These compounds may co-elute with the solvent phase resulting in little to no separation at these temperatures. Furthermore, the solvent delay may prevent these samples from displaying on the TIC for these MS methods.

Alprazolam will be analyzed using the MS100TR method to determine if it will be detected with the shortened run time to prevent a false negative.

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
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A working mixture of cocaine, hydrocodone, and pethidine will be analyzed using the following methods:

- MSDRUGS100
- ASMSDRUGS100
- MSDRUGS200
- ASMSDRUGS200
- MS100TR
- ASMS100TR
- MSDRUGS60
- MS200TR
- ASMS200TR
- GC100
- ASGC100
- GC200
- ASGC200
- ASMSDRUGS60

This mixture is used for monthly performance verification. Furthermore, all FCU GC/MS have previously demonstrated adequate separation of these compounds.

A mixture of LSD and LAMPA will be analyzed for the MS280ISO, AMS280ISO, GC280ISO, and ASGC280ISO methods. LSD and LAMPA demonstrate similar mass spectra, but can be easily distinguished by differences in retention time. These compounds are typically analyzed at higher temperatures due to late elution times.

A mixture of testosterone(s) acetate, benzoate, isocaproate, undecanoate will be analyzed using the MSDRUGSTI, ASMSDRUGSTI, GC280ISOTI, and ASGC280ISOTI method. These methods were developed specifically for steroids due to their often large molecular weights. Testosterone acetate and isocaproate will be used to determine if the instrument can fully resolve these compounds into two separate peaks. Testosterone benzoate and undecanoate will be used to determine if they will elute within the 30 minute run time.

Buprenorphine will be analyzed using the MSDRUGS100 and MS200TR methods to determine if it will be detected with a lower starting temperature or a shortened run time to prevent a false negative.

Repeatability analyses will be performed on the MSDRUGS100 method and all autosample methods (GC and MS) to ensure consistent retention times.

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
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4. Working Standards and Reagents Used:

- *Amphetamine, Methamphetamine, and Phentermine Mix – 0.5N NaOH/CHCl₃ extraction*
Expiration date: 12/23/17

Standard/Solvent	Source (if applicable)	Lot Number
Amphetamine	K&K Labs	83567
Methamphetamine	K&K Labs	732A
Phentermine	Sigma	47H0208
0.5N NaOH	VRW	151J01006
Chloroform	VRW	55121 Bottle #4

- *Pethidine, Cocaine, and Hydrocodone Mix – in Methanol*
Expiration date: 2/8/18

Standard/Solvent	Source (if applicable)	Lot Number
Pethidine	S.B. Penick	413NMN027
Cocaine	Sigma	50K1124
Hydrocodone	Merck	V1526
Methanol	Fisher Scientific	165076 Bottle# 3

- *Testosterone Mix – in Methanol*
Expiration date: 3/6/18

Standard/Solvent	Source (if applicable)	Lot Number
Testosterone acetate	Sigma	19F0299
Testosterone benzoate	Sigma	49F0246
Testosterone isocaproate	Steraloids	L1563
Testosterone undecanoate	Steraloids	B0155
Methanol	Fisher Scientific	165076

- *Vendor-procured Working Standards*

Standard/Solvent	Source	Lot Number	Exp Date
Buprenorphine in acetonitrile	Cerilliant	FE08141501	10/2020
Alprazolam in methanol	Cerilliant	FE07161509	7/2020
LAMPA in acetonitrile	Cerilliant	FE08021201	10/2017
LSD in acetonitrile	Cerilliant	FE06011602	7/2021
LSD in acetonitrile (man. Inj.)	Cerilliant	FE10171401	11/2019

- *Procedural Blanks*

Solvent	Lot Number/Bottle Number	Exp Date
Methanol	170299 Bottle #1	Until consumed
0.5N NaOH	16A200002	1/2018
Chloroform	56050 Bottle #3	Until consumed

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
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5. Results and Conclusions:

- *Amphetamine, Phentermine, and Methamphetamine Standard*

The methods selected for this standard all produced adequate baseline separation for the three compounds. Each method also demonstrated consistent retention times (within $\pm 2\%$) and elution order with repeatability testing.

The MS methods demonstrated adequate responses in ion fragment detection. All spectra generated displayed accurate fragmentation patterns when compared to previously run FCU standards.

Appendix A contains all generated data obtained for this mixture.

- *Pethidine, Cocaine, and Hydrocodone Standard*

The methods selected for this standard all produced adequate baseline separation for the three compounds. Each method also demonstrated consistent retention times (within $\pm 2\%$) and elution order with repeatability testing.

The MS methods demonstrated adequate responses in ion fragment detection. All spectra generated displayed accurate fragmentation patterns when compared to previously run FCU standards.

Appendix B contains all generated data obtained for this mixture.

- *Testosterone Mixture Standard*

The methods selected for this standard all produced adequate baseline separation for the four compounds. Each method also demonstrated consistent retention times (within $\pm 2\%$) and elution order with repeatability testing.

The MS methods demonstrated adequate responses in ion fragment detection. All spectra generated displayed accurate fragmentation patterns when compared to previously run FCU standards.

Appendix C contains all generated data obtained for this mixture.

- *LSD/LAMPA Standard*

The methods selected for this standard all produced adequate baseline separation for these two compounds. Each method also demonstrated consistent retention times (within $\pm 2\%$) and elution order with repeatability testing.

The MS methods demonstrated adequate responses in ion fragment detection. All spectra generated displayed accurate fragmentation patterns when compared to previously run FCU standards.

Appendix D contains all generated data obtained for this mixture.

Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)
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- *Late Eluting Compounds and Time Reduction Methods*

The MS100TR method failed to detect alprazolam with the shortened run time. The alprazolam standard was verified using the MSDRUGS100 method and produced adequate response on the TIC and accurate spectra when compared to the FCU standard.

The MSDRUGS100 and MS200TR methods failed to detect buprenorphine with their respective parameters. The buprenorphine standard was verified using the MSDRUGS200 method and produced adequate response on the TIC and accurate spectra when compared to the FCU standard.

These method failures were expected due to the new column length. While these compounds were not analyzed with the auto sample version of these methods, failure would also be expected because the remaining method parameters are identical. It may be possible these compounds will be detected using these methods in the future with regular instrument maintenance.

Appendix E contains all generated data obtained for these compounds and methods.

All procedural blanks and MS tune data can be located in Appendix F.

In summary, this instrument has demonstrated satisfactory results for use within the TBI FCU.

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Gas Chromatograph (Model 6890 Serial Number CN42229050)
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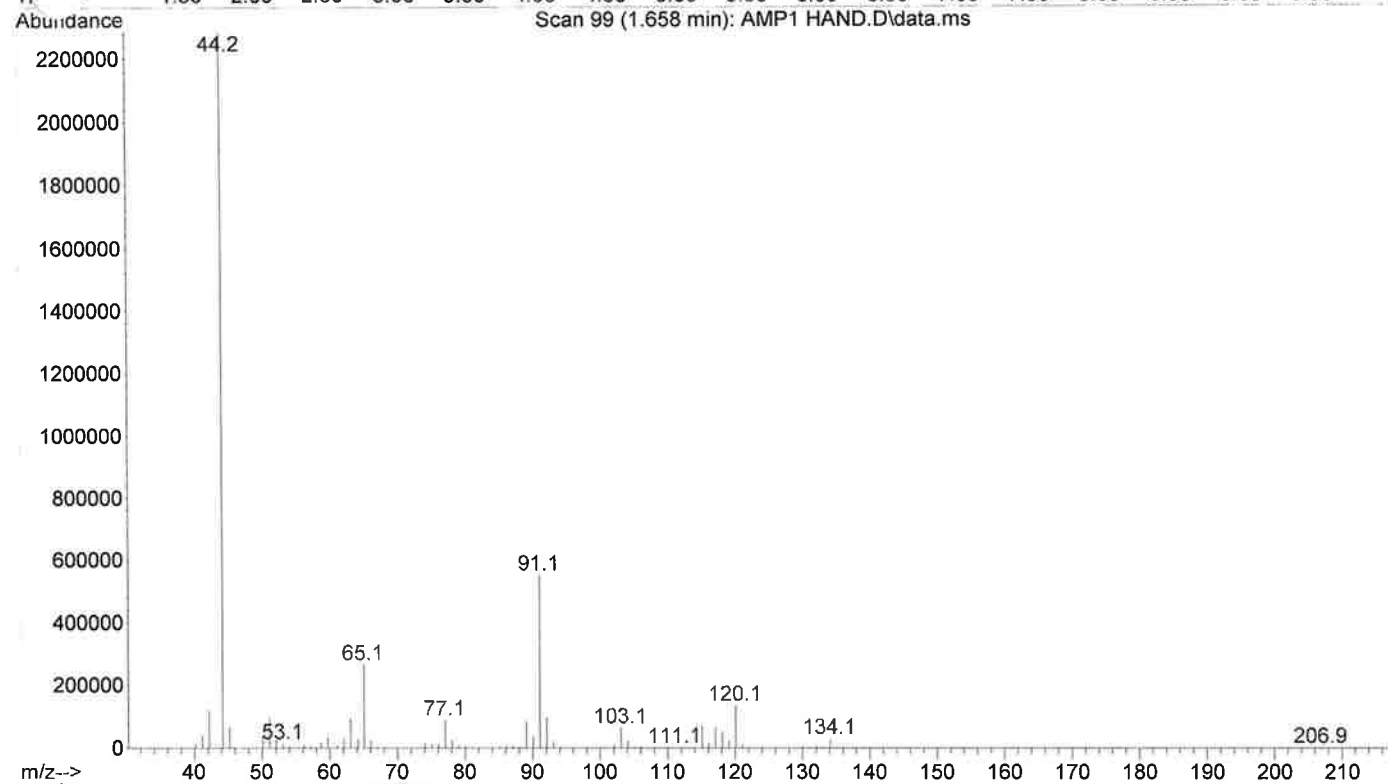
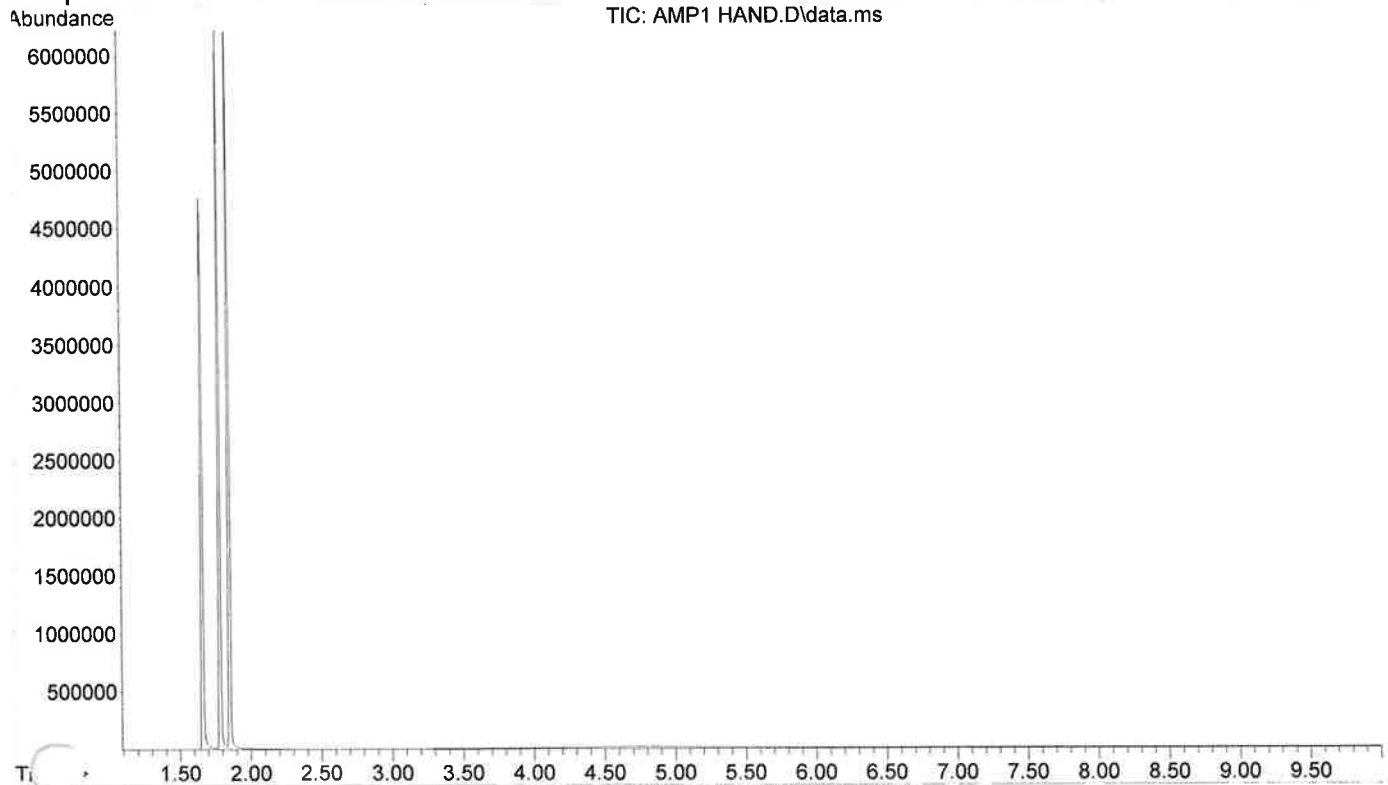
- *Amphetamine, Phentermine, and Methamphetamine Standard RT Comparisons*

Method	Compound	RT	Acceptable variance ($\pm 2\%$)	Repeat RT
ASMSDRUGS100	Amphetamine	1.668	± 0.033	1.669
	Phentermine	1.790	± 0.036	1.790
	Methamphetamine	1.858	± 0.037	1.857
ASMS100TR	Amphetamine	1.670	± 0.033	1.670
	Phentermine	1.791	± 0.036	1.792
	Methamphetamine	1.858	± 0.037	1.859
ASMSDRUGS60	Amphetamine	2.420	± 0.048	2.417
	Phentermine	2.525	± 0.051	2.524
	Methamphetamine	2.589	± 0.052	2.585
ASGC100	Amphetamine	0.903	± 0.018	0.905
	Phentermine	1.058	± 0.021	1.068
	Methamphetamine	1.150	± 0.023	1.152
ASGC150ISO	Amphetamine	0.456	± 0.009	0.456
	Phentermine	0.483	± 0.010	0.483
	Methamphetamine	0.499	± 0.010	0.498

Tennessee Bureau of Investigation: Memphis Crime Laboratory
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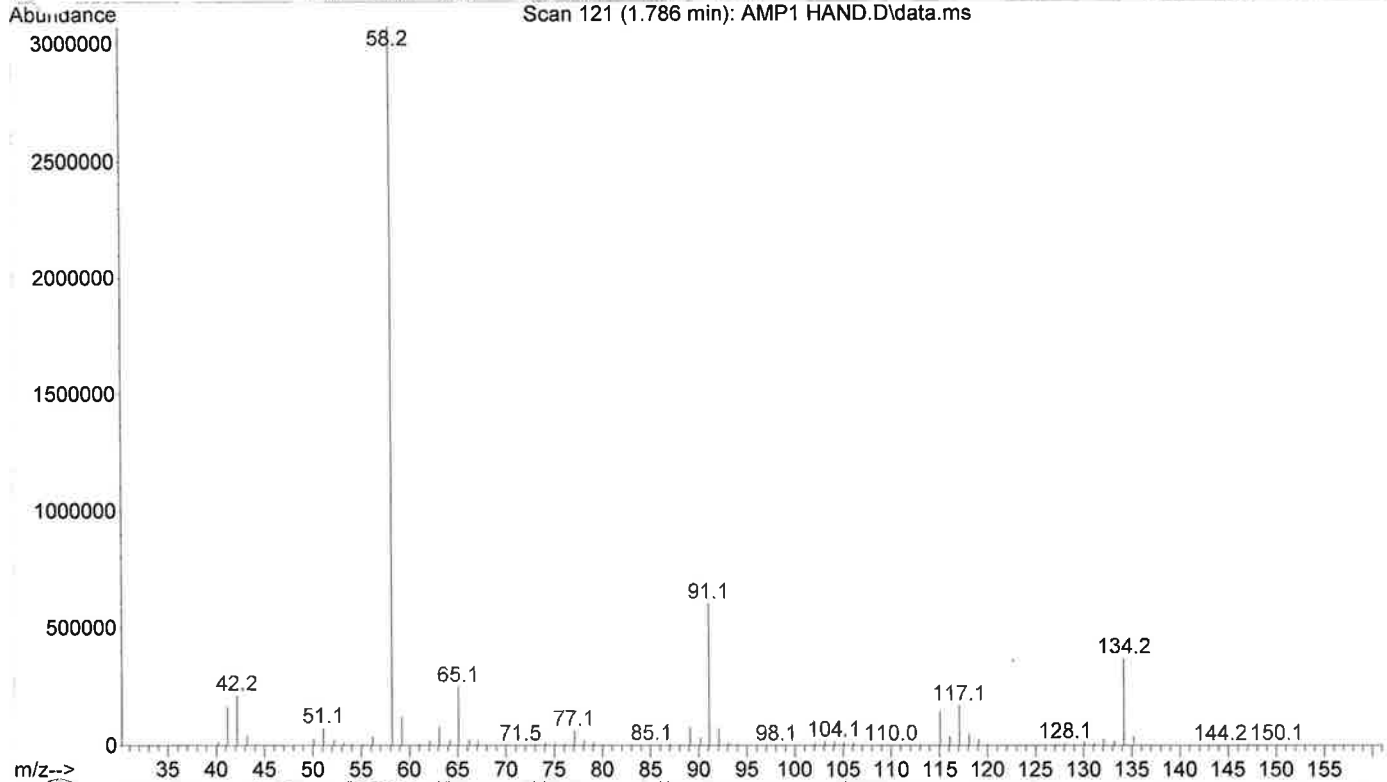
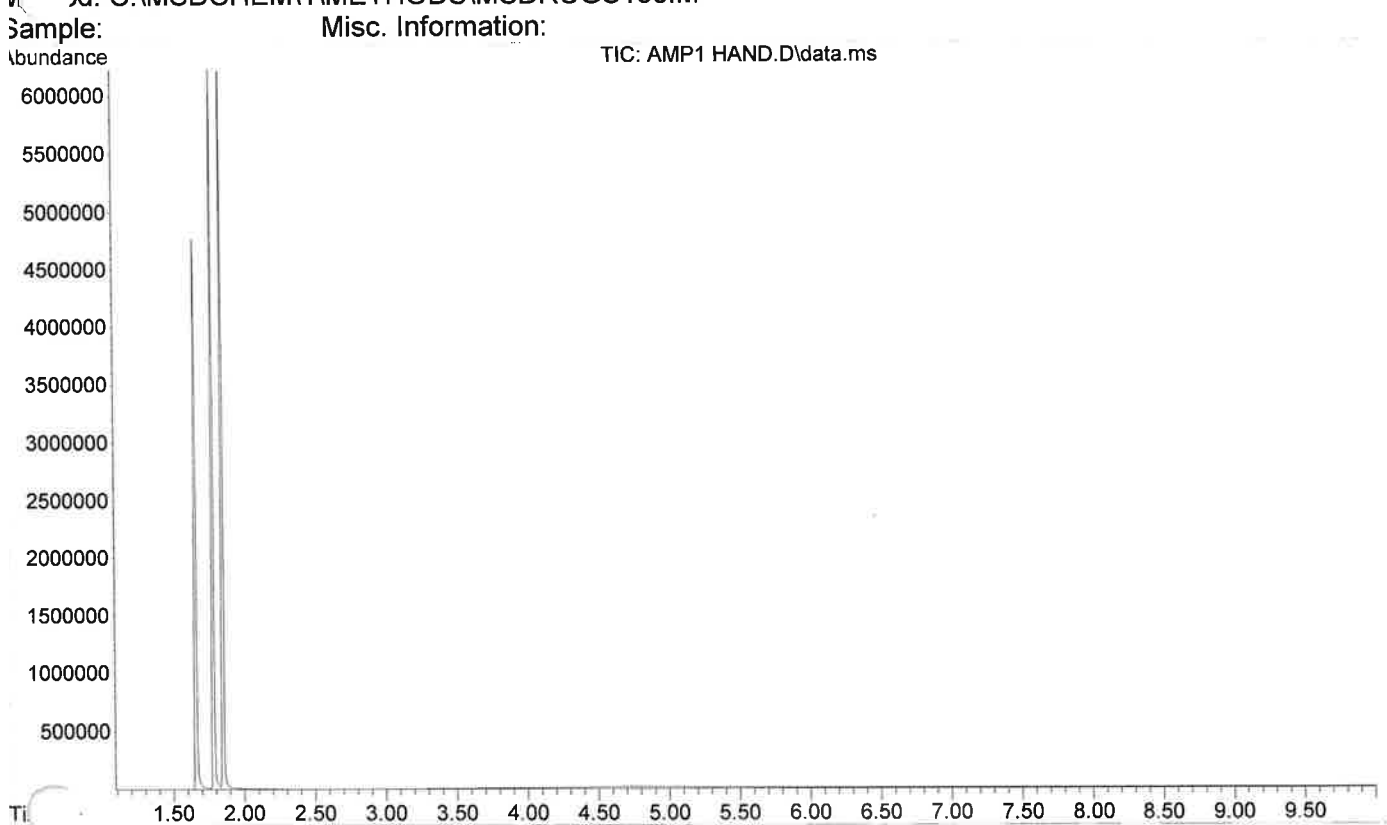
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Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
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MS
TMC



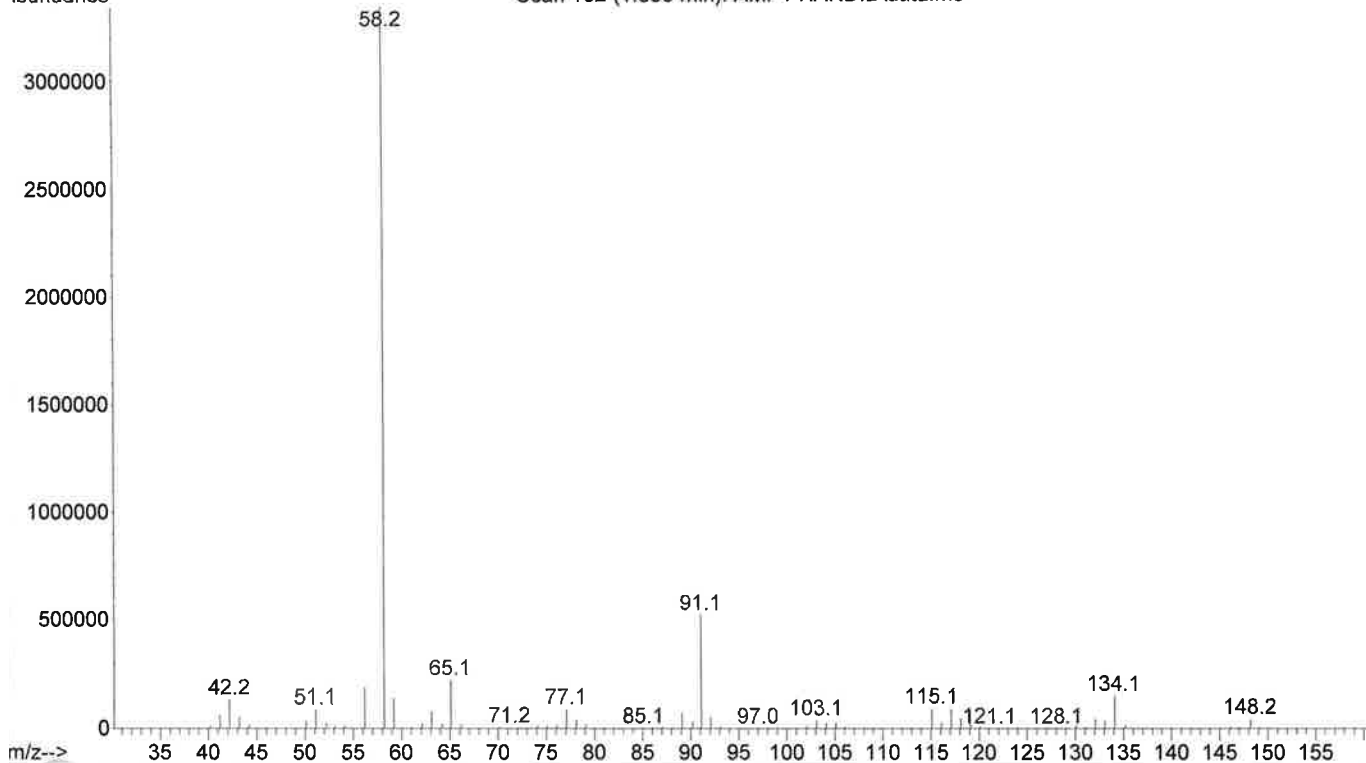
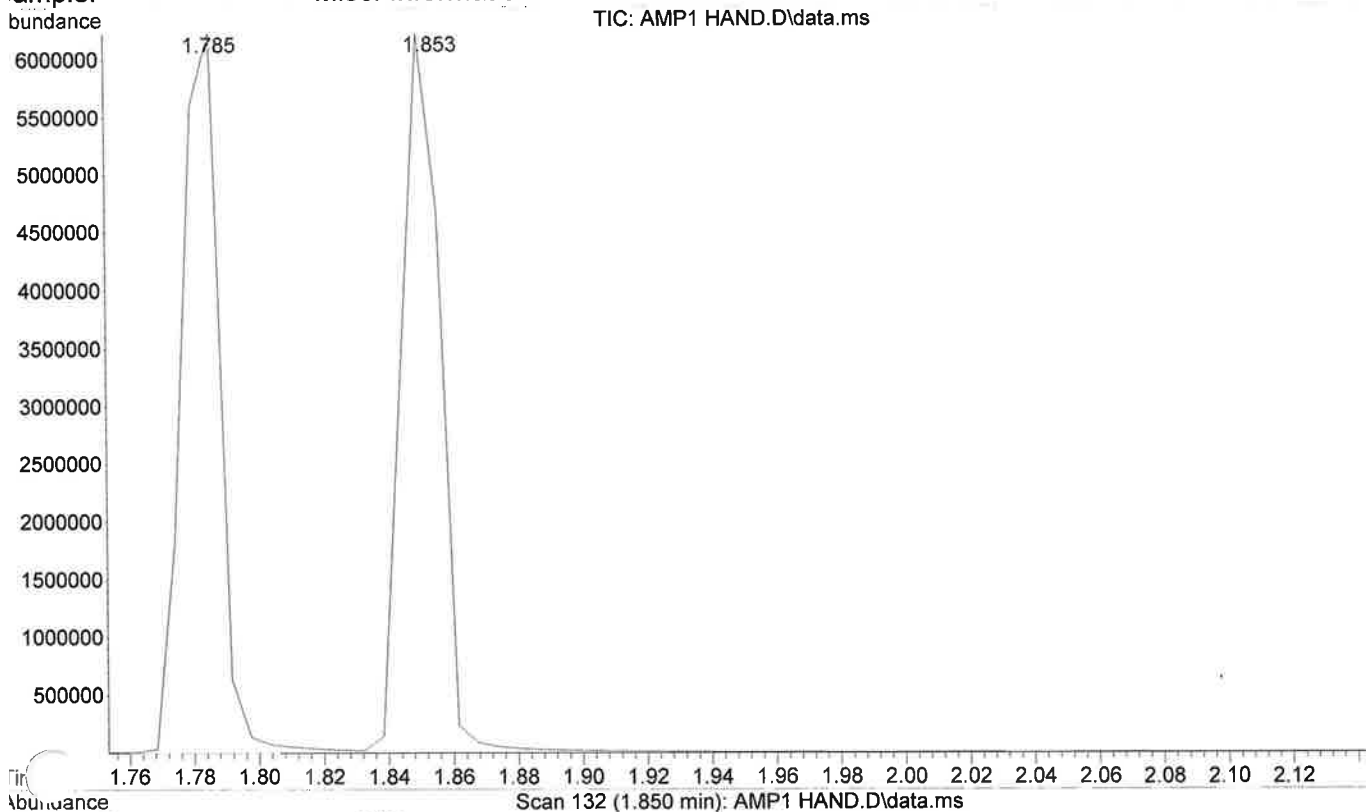
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Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

ennessee Bureau of Investigation: Memphis Crime Laboratory
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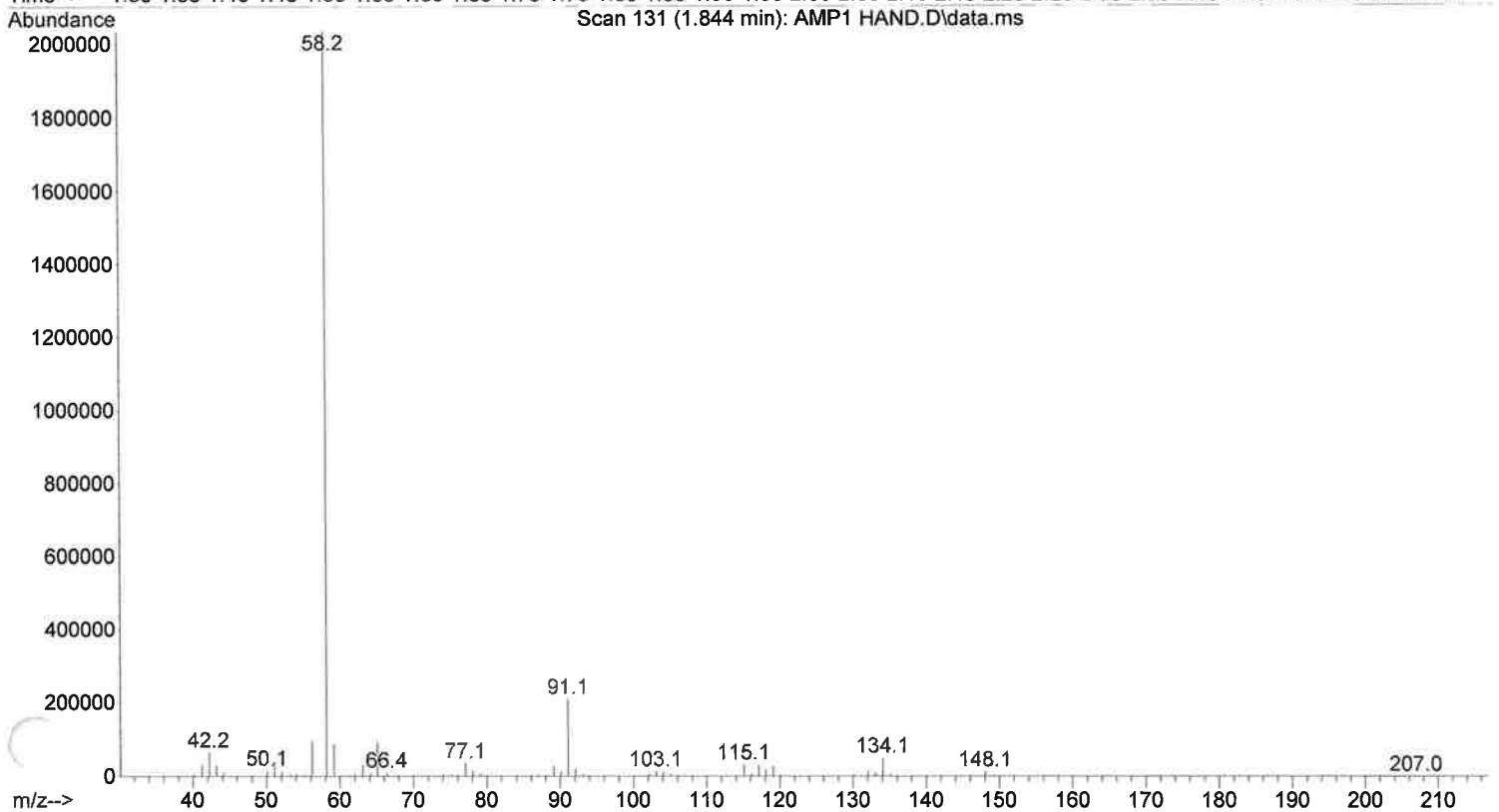
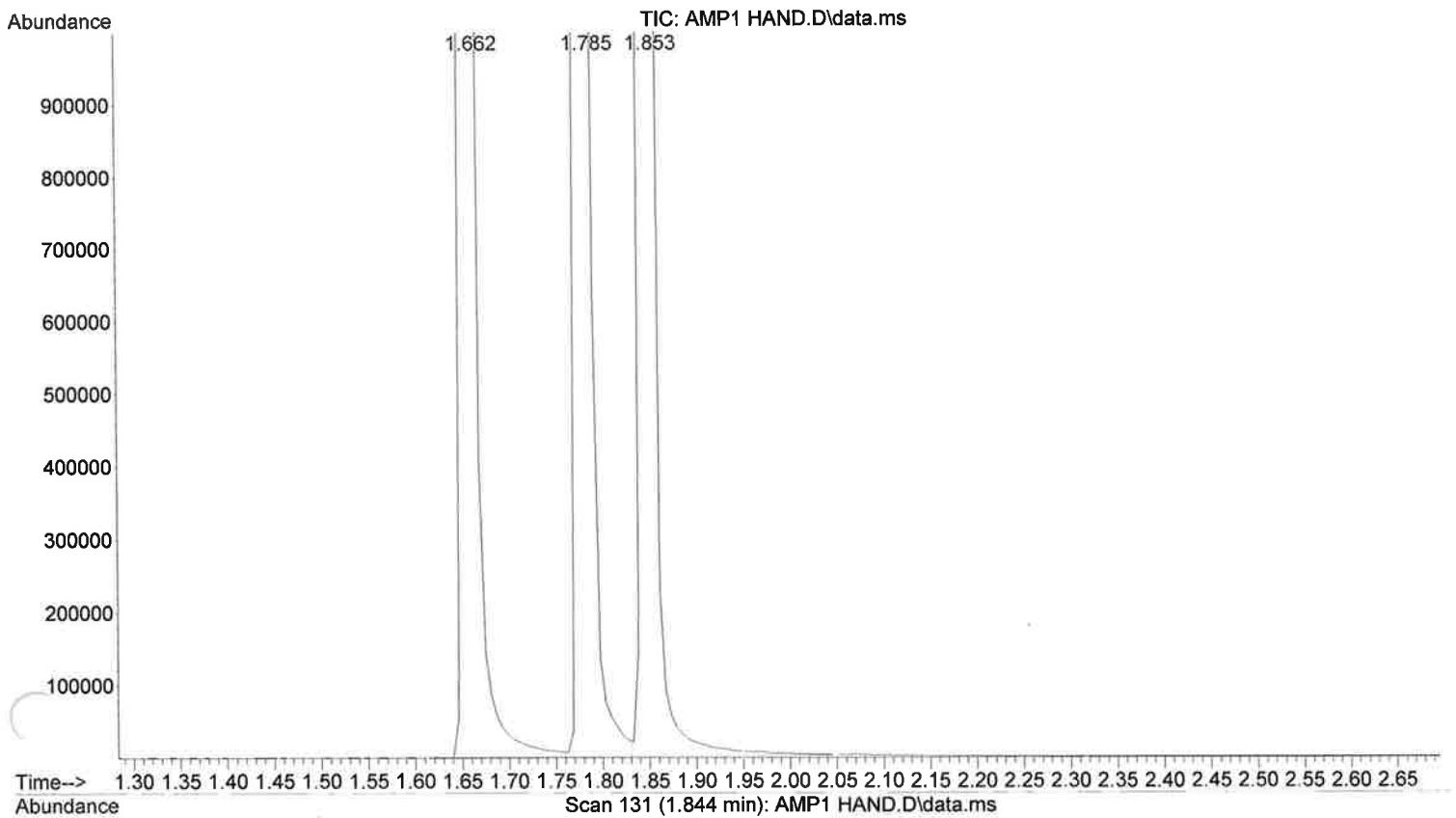
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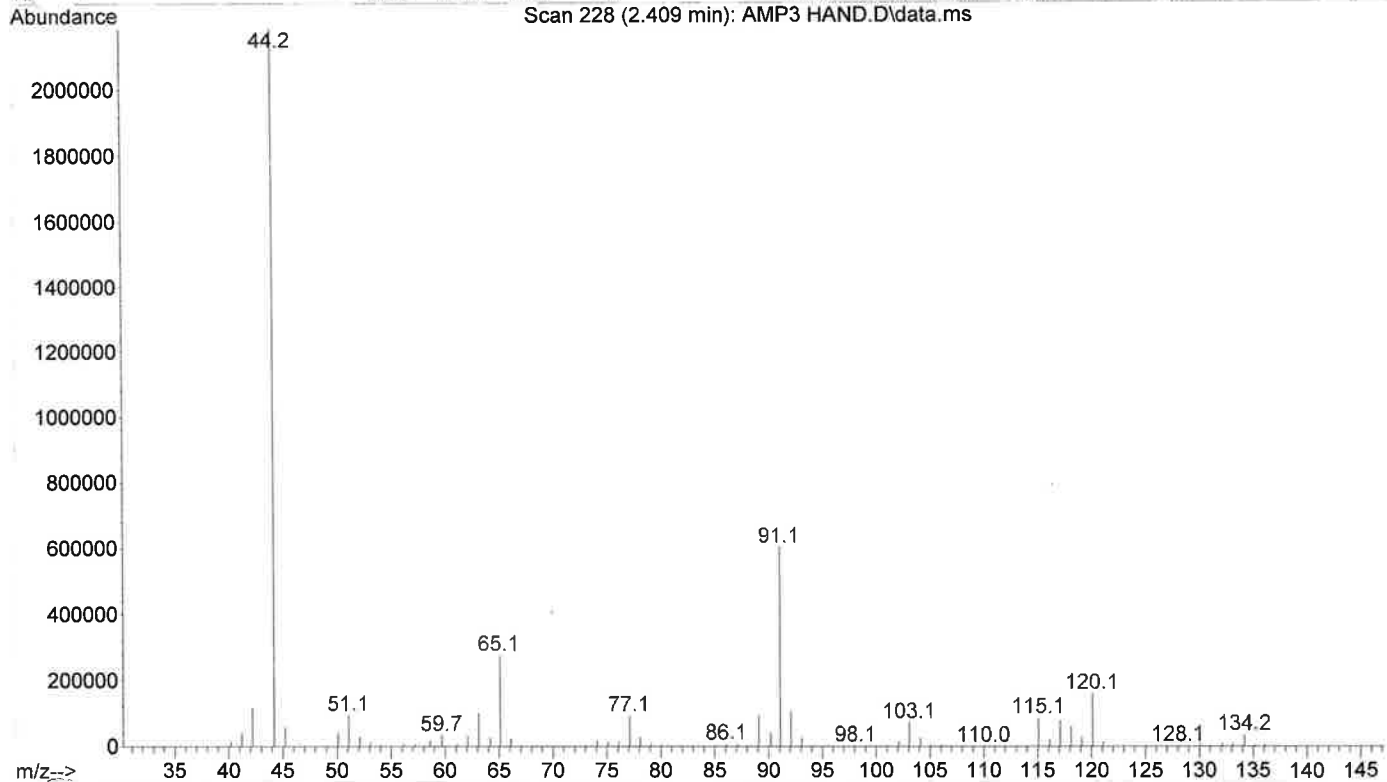
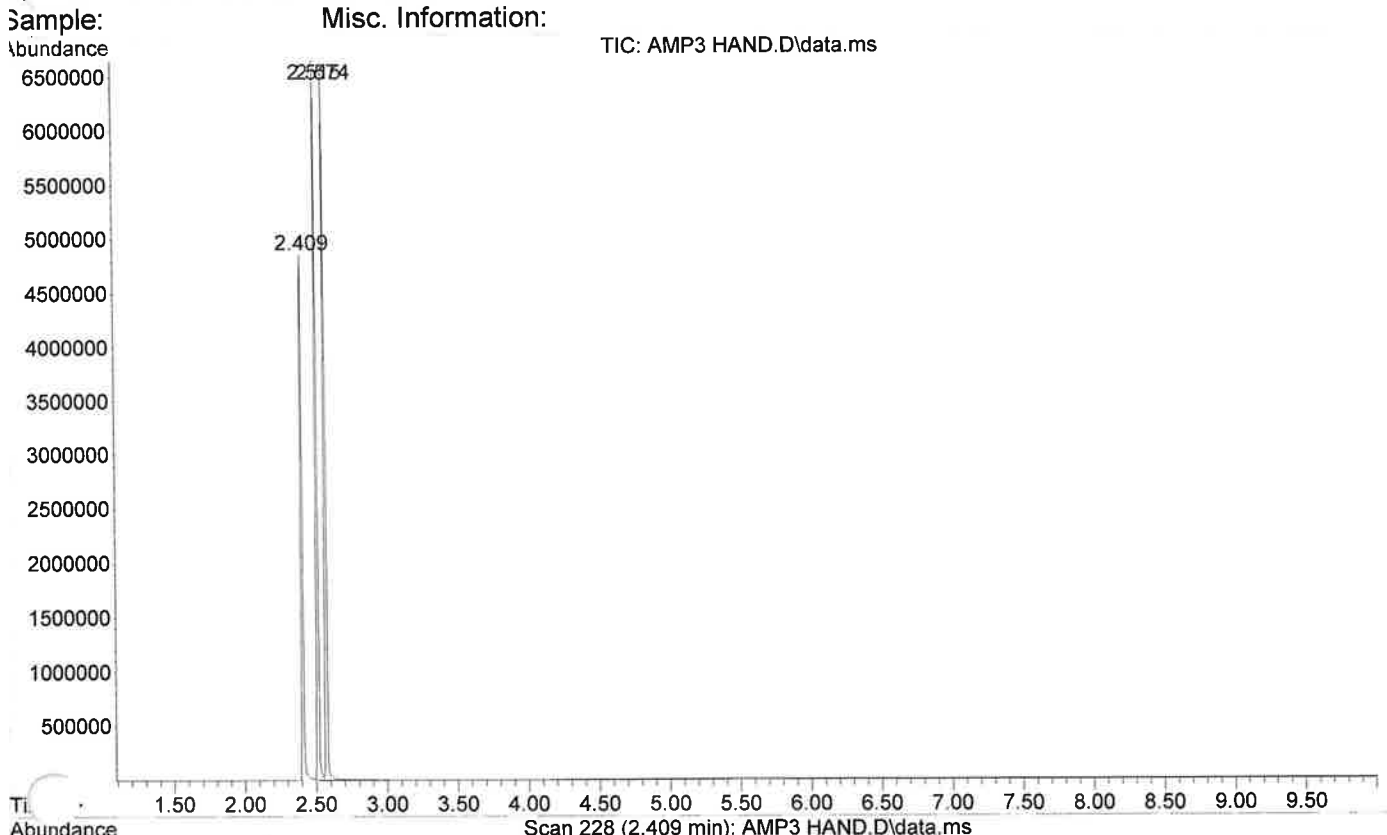
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Tennessee Bureau of Investigation: Memphis Crime Laboratory
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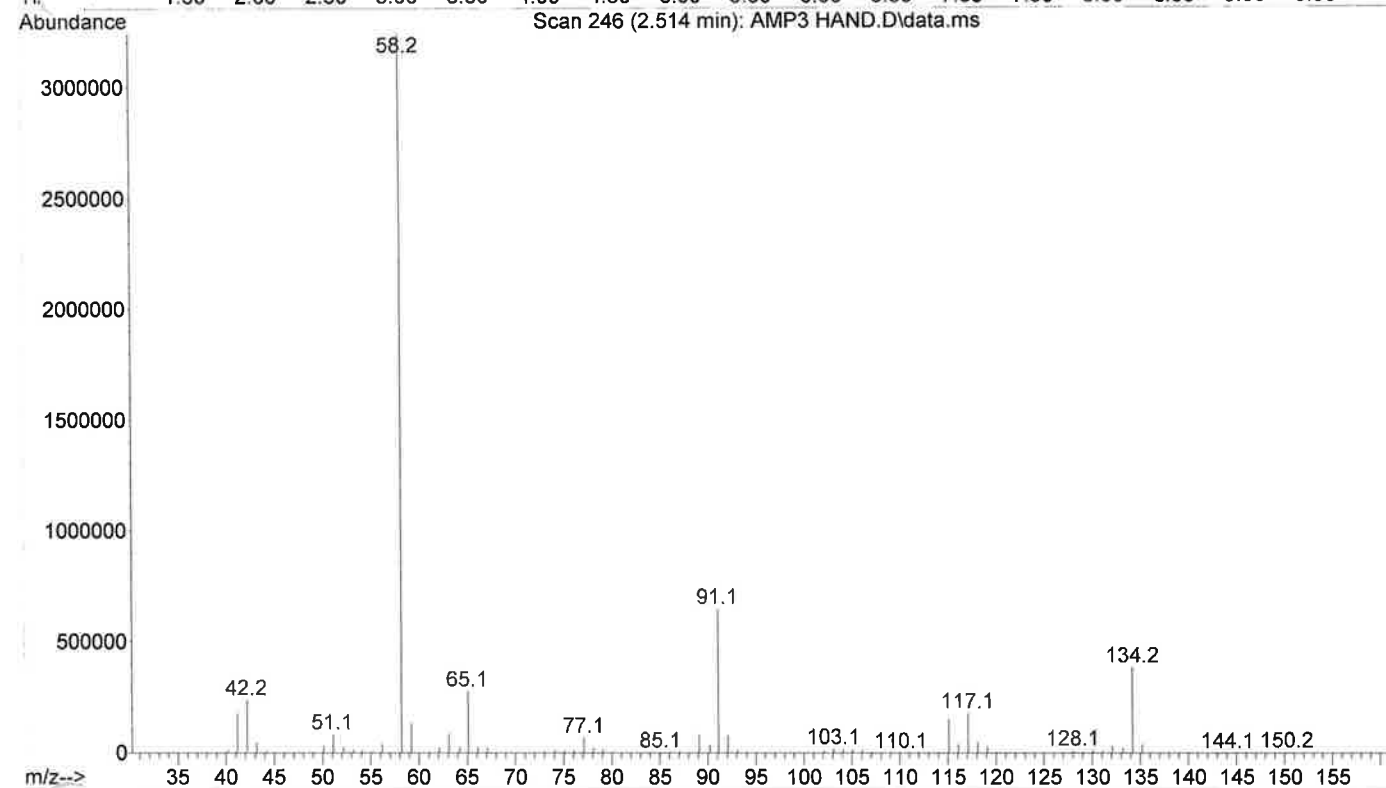
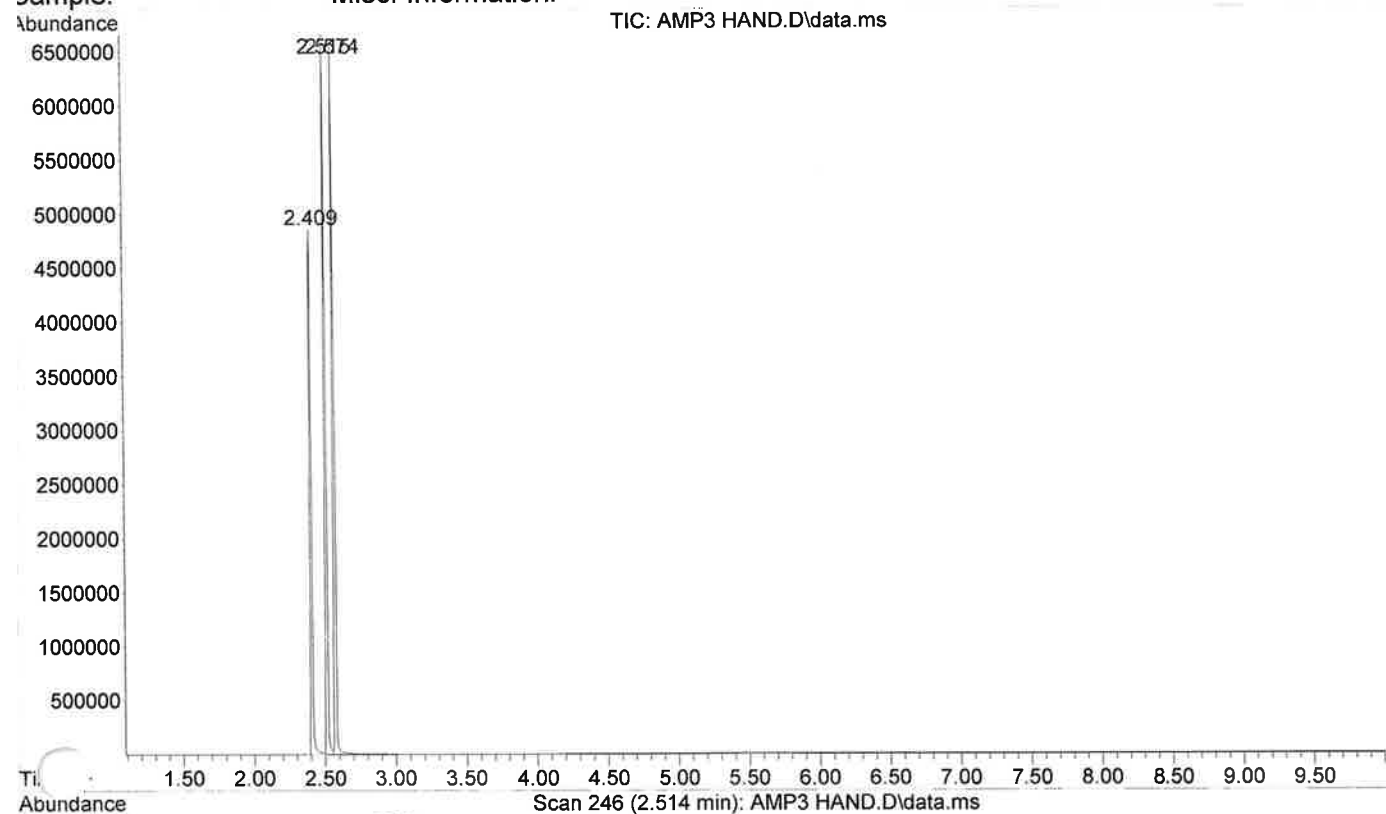
Gmc



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Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
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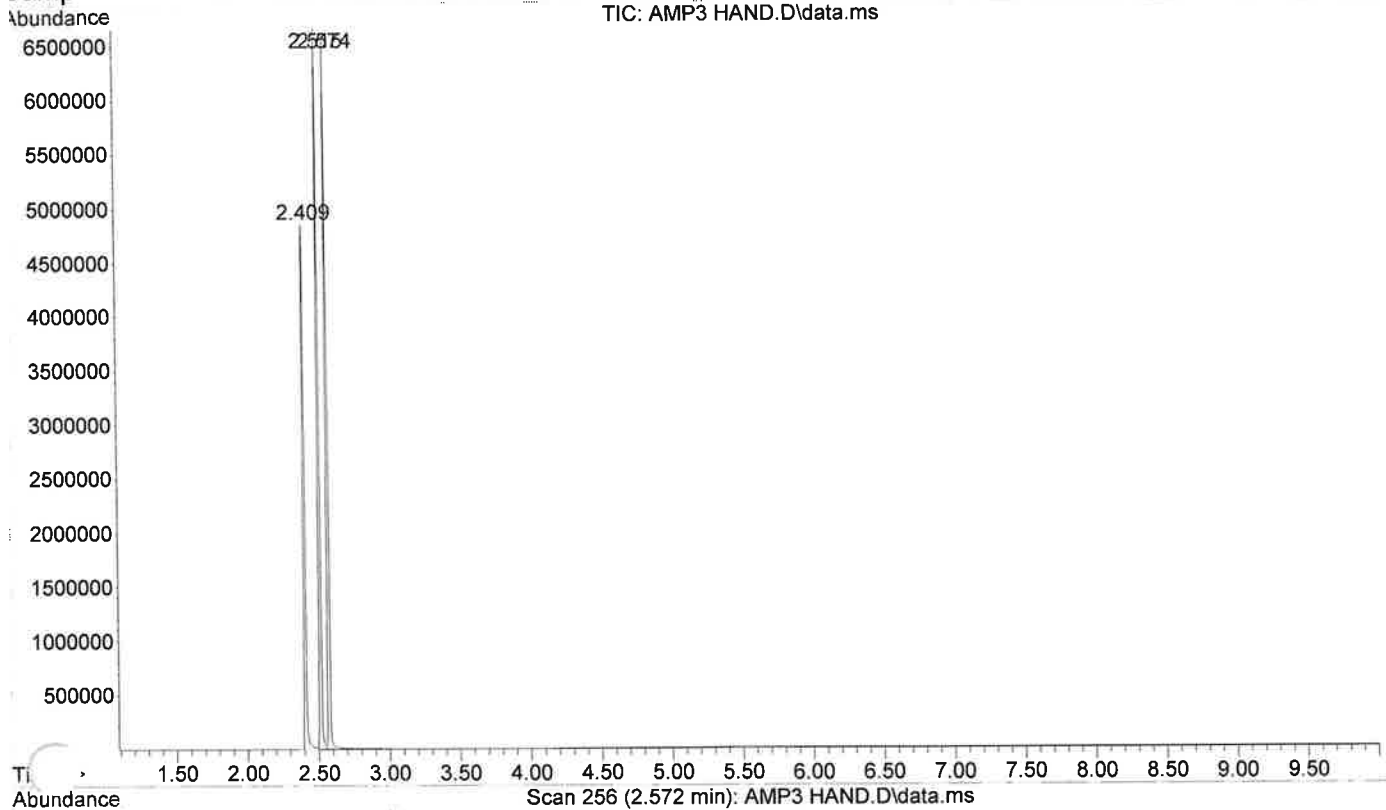


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Tennessee Bureau of Investigation: Memphis Crime Laboratory
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Sample: Misc. Information:



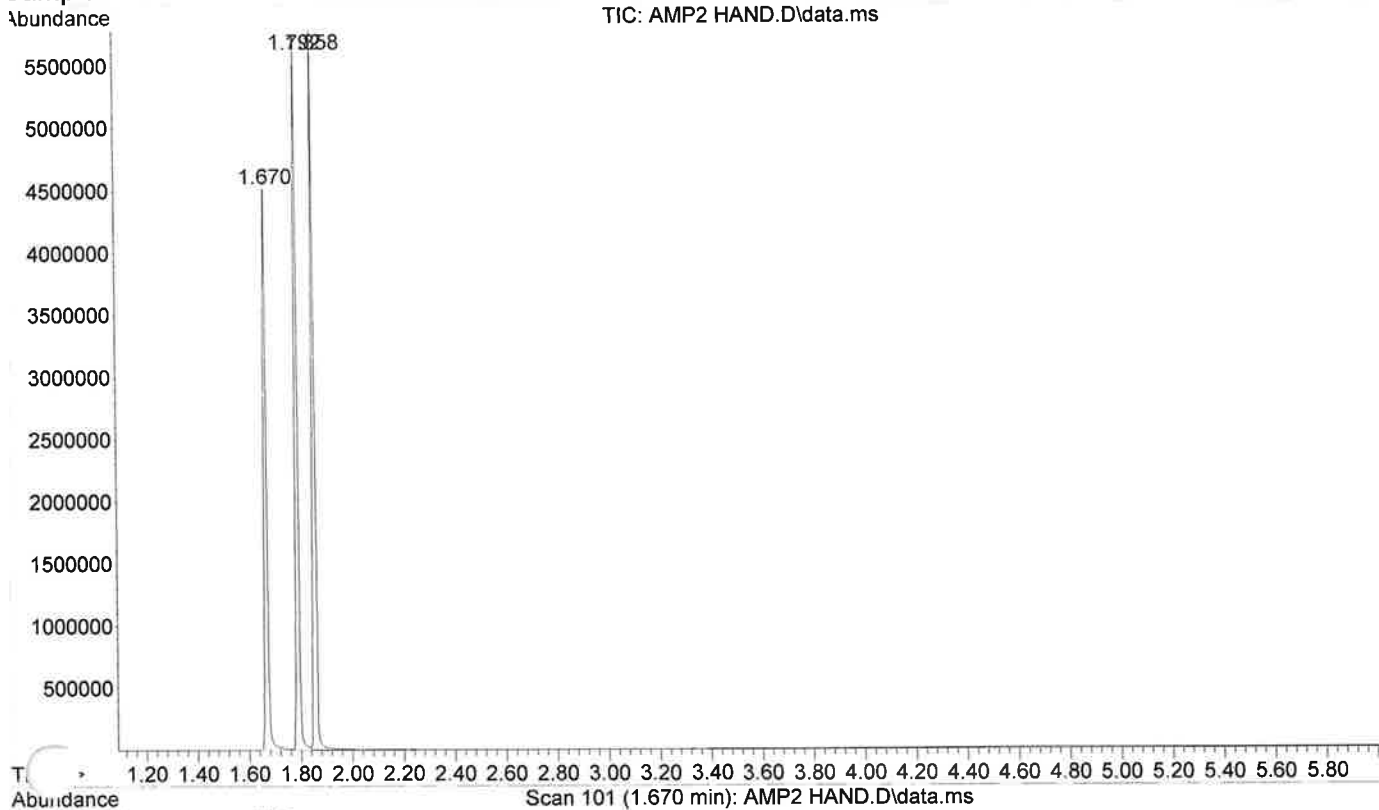
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Tennessee Bureau of Investigation: Memphis Crime Laboratory
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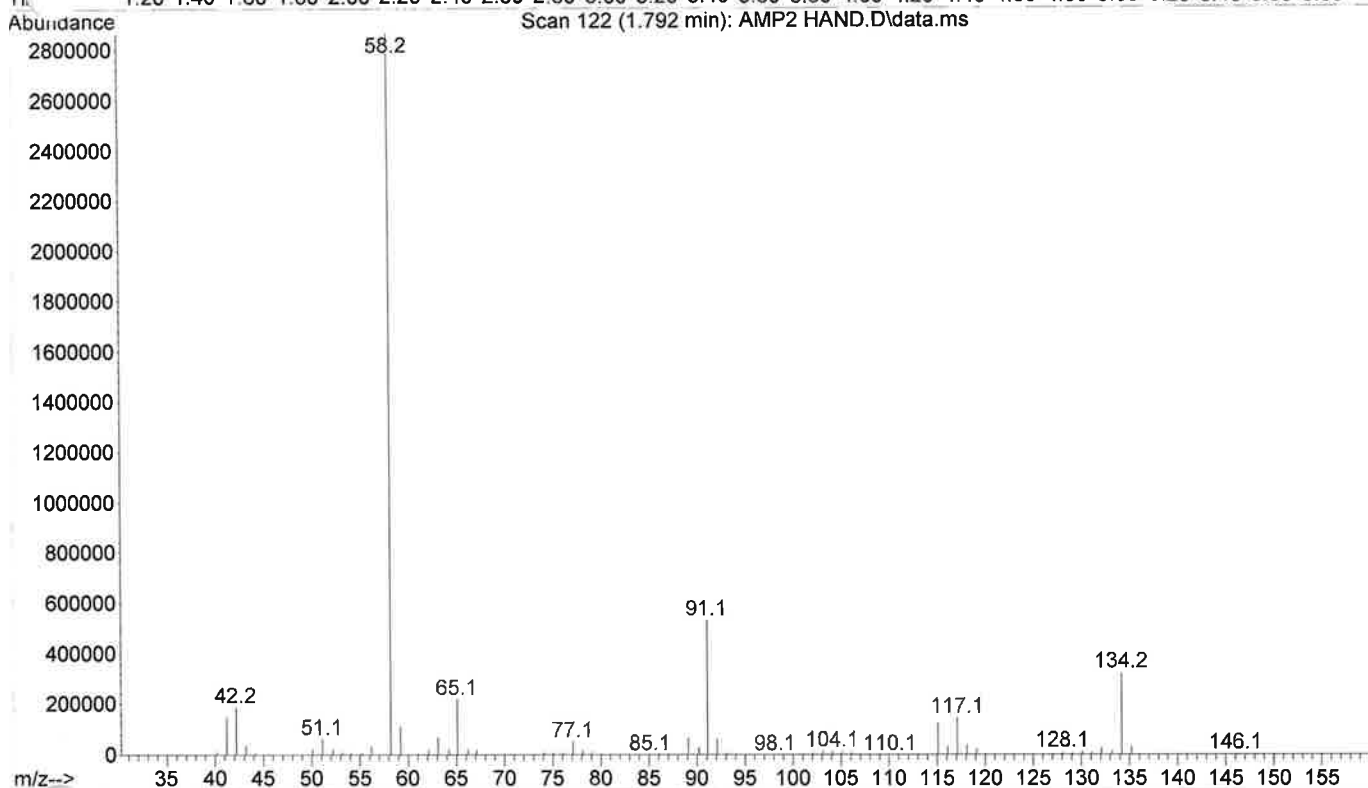
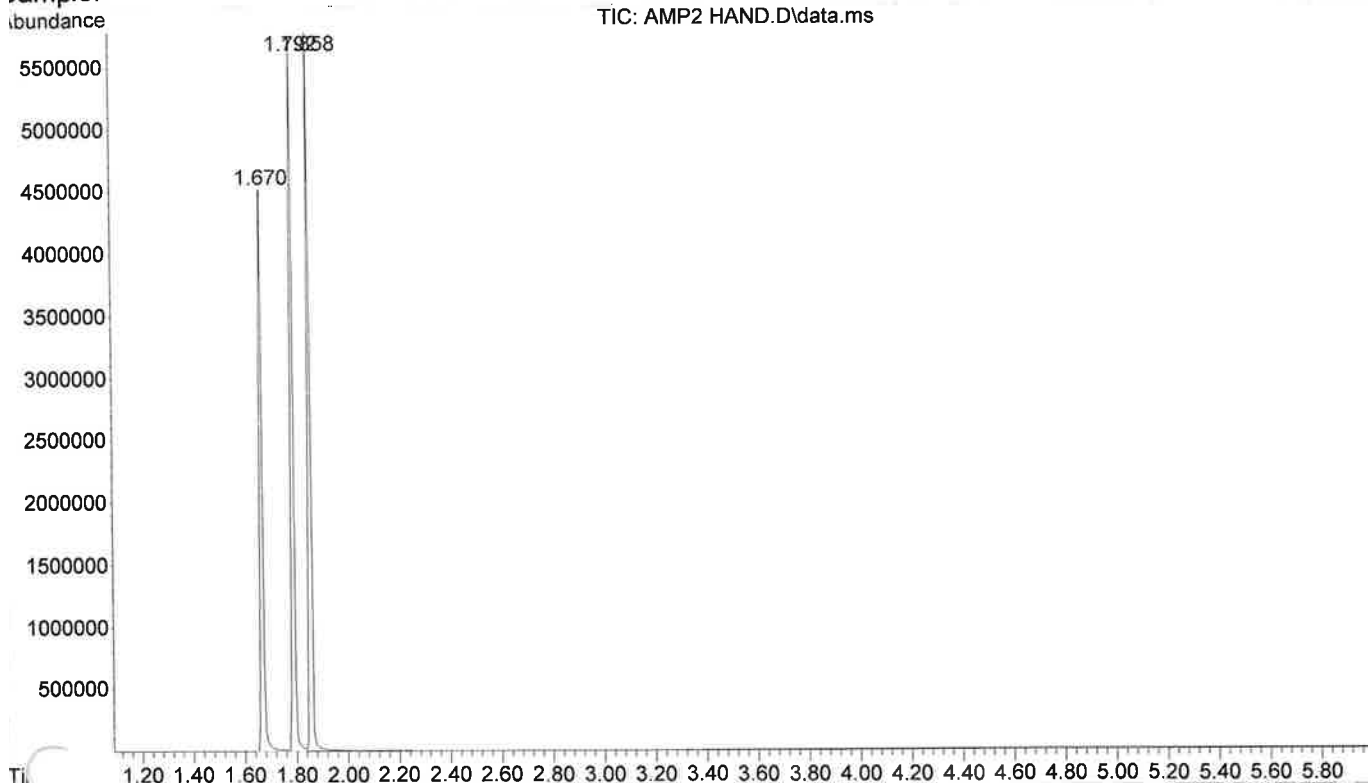
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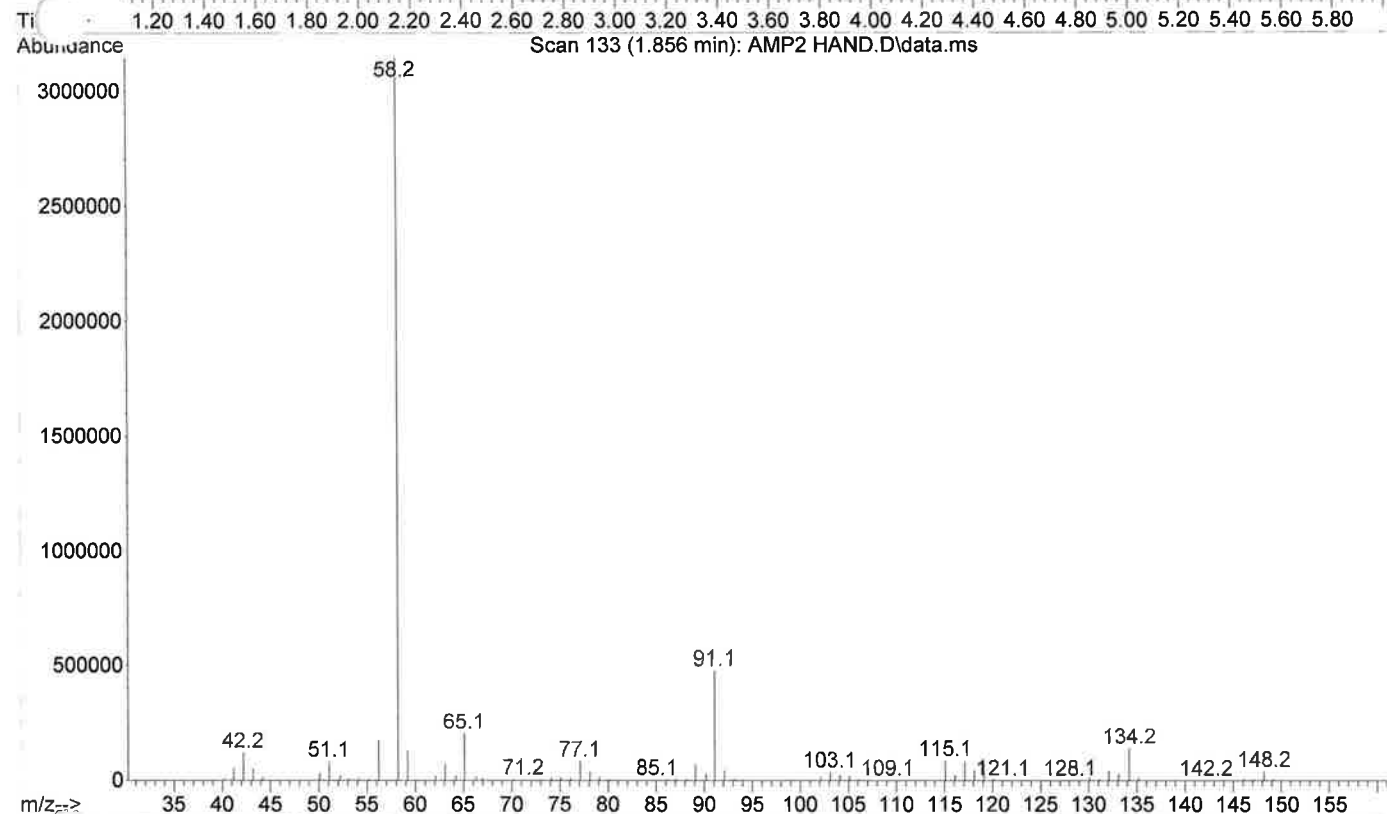
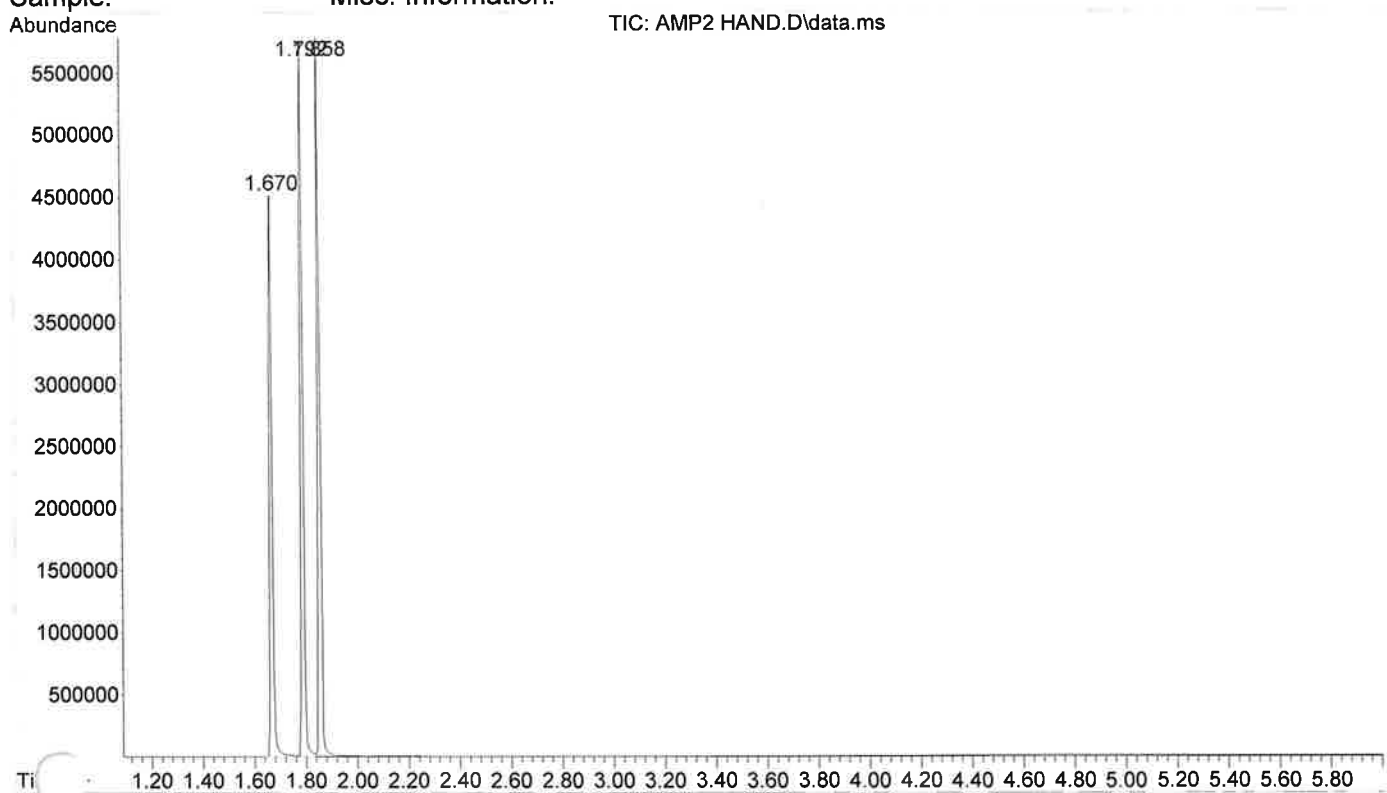
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Tennessee Bureau of Investigation: Memphis Crime Laboratory

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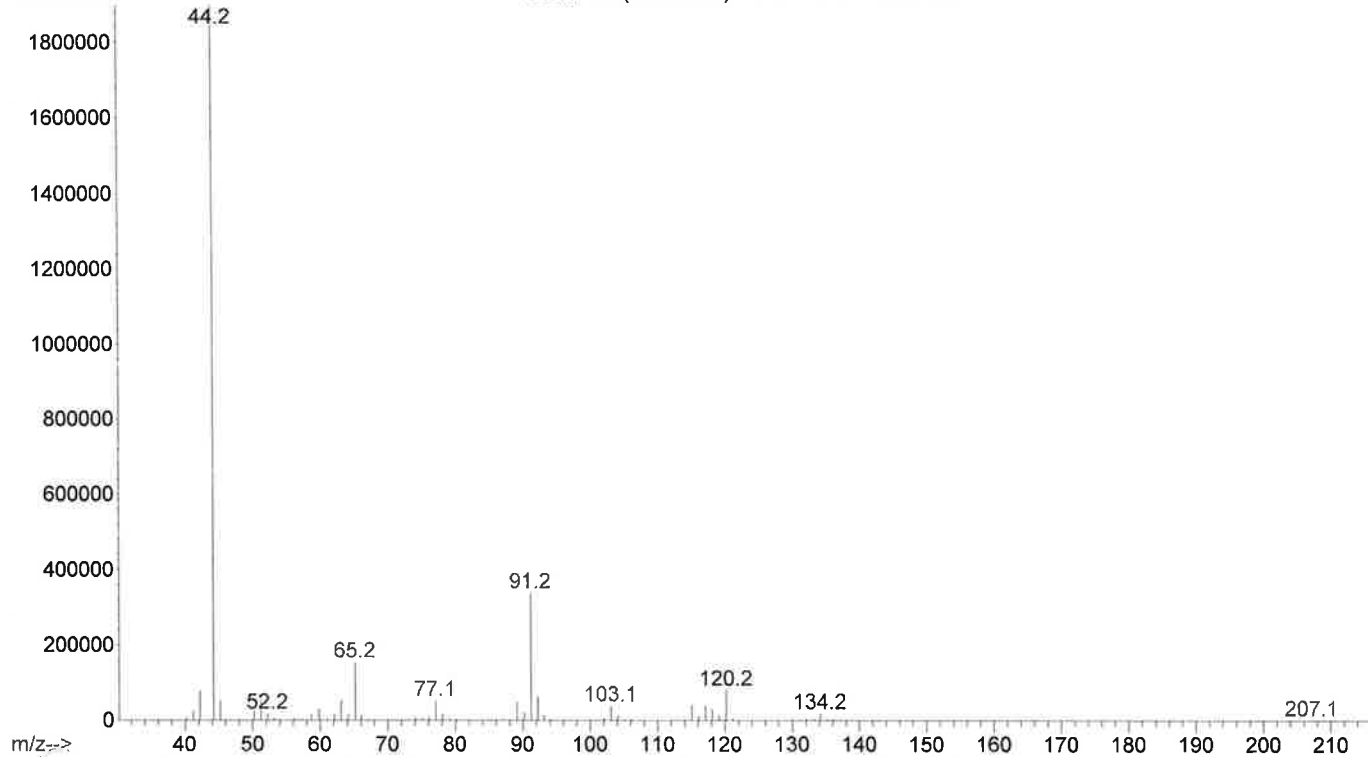
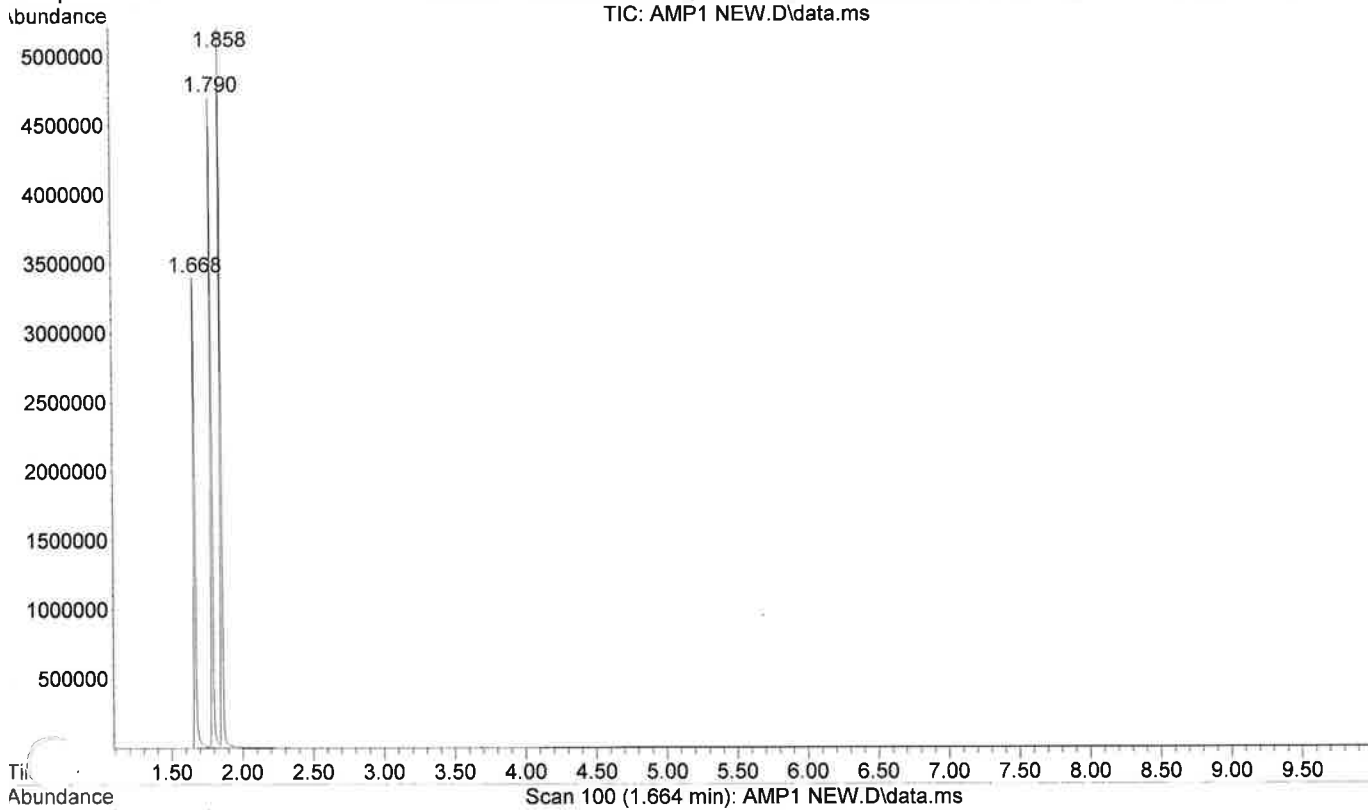
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Operator: WILLIAM STANTON on 19 Jun 2017 9:36

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine



Column: 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

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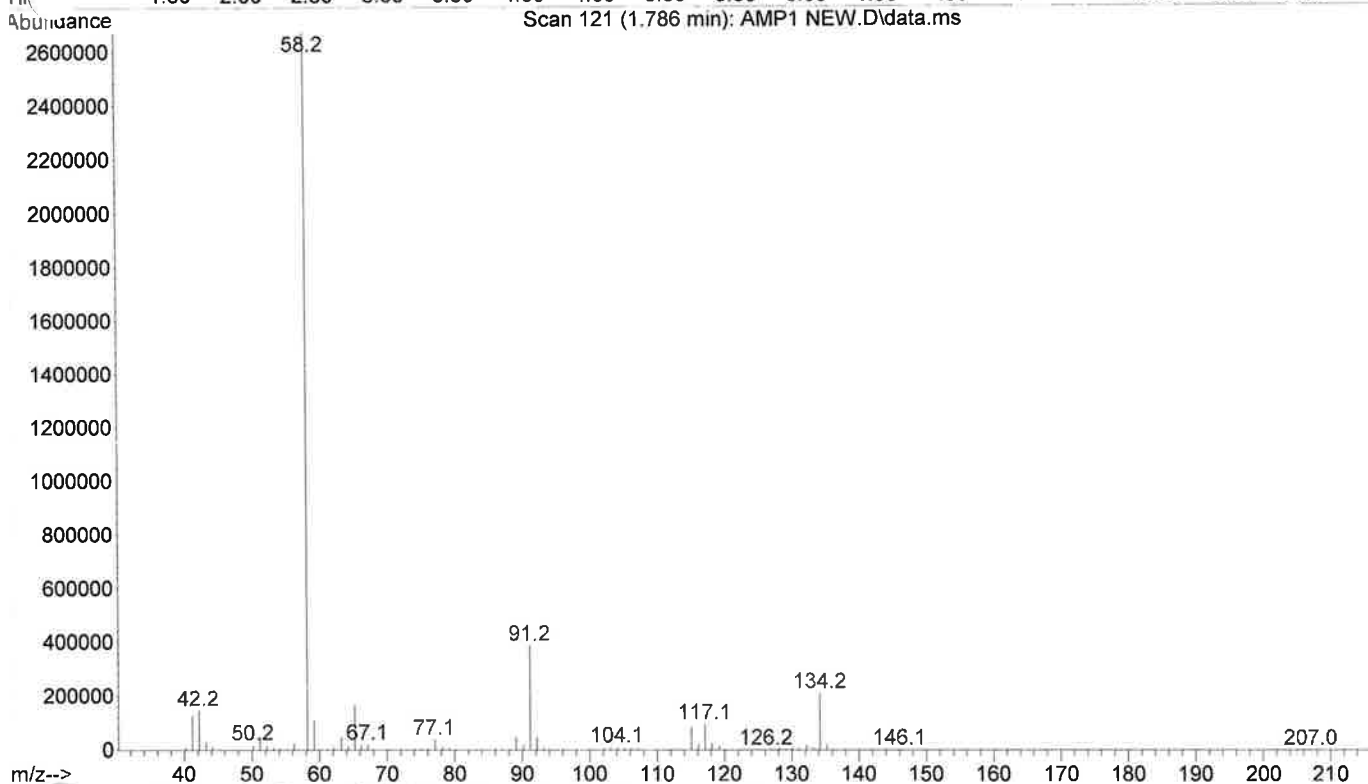
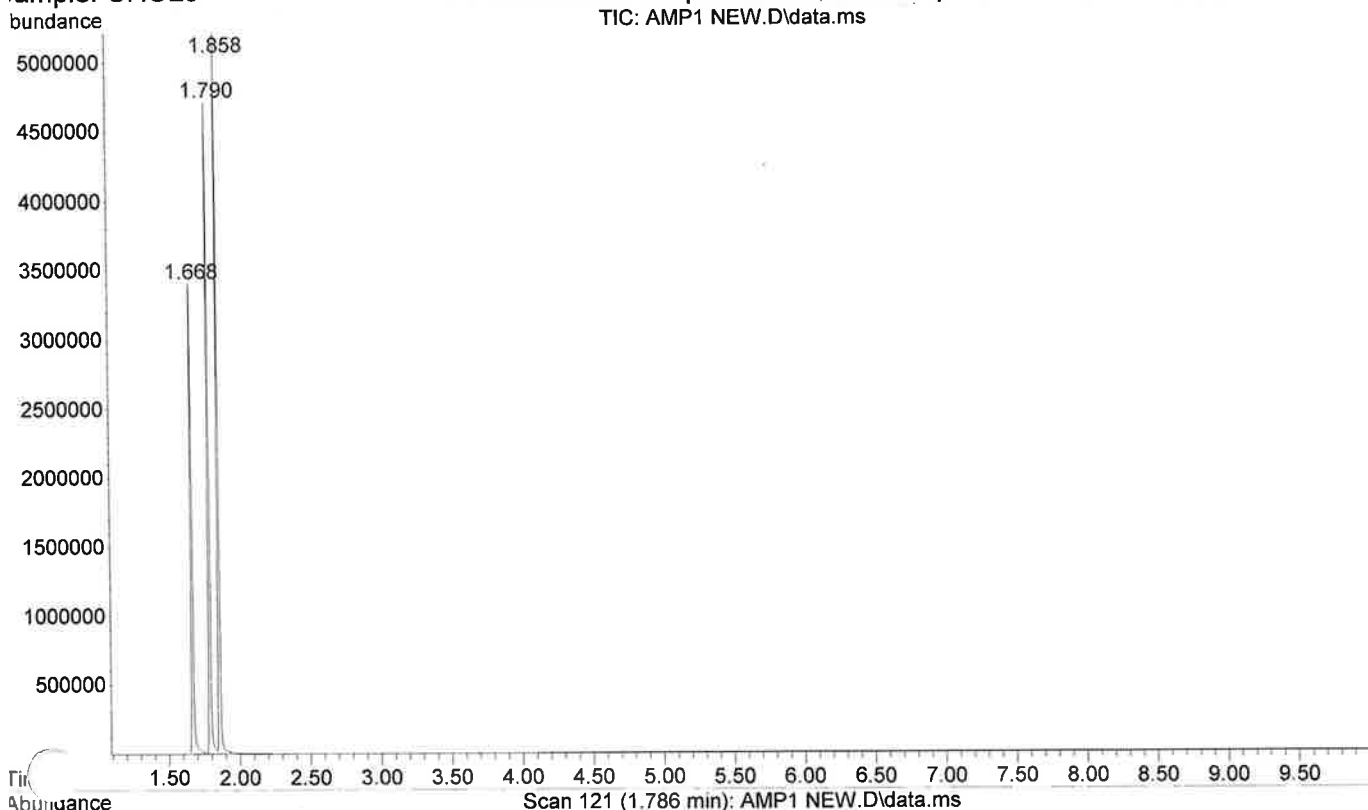
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ennessee Bureau of Investigation: Memphis Crime Laboratory
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Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 9:36
File: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M
Sample: CHCL3

Emc

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP1 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

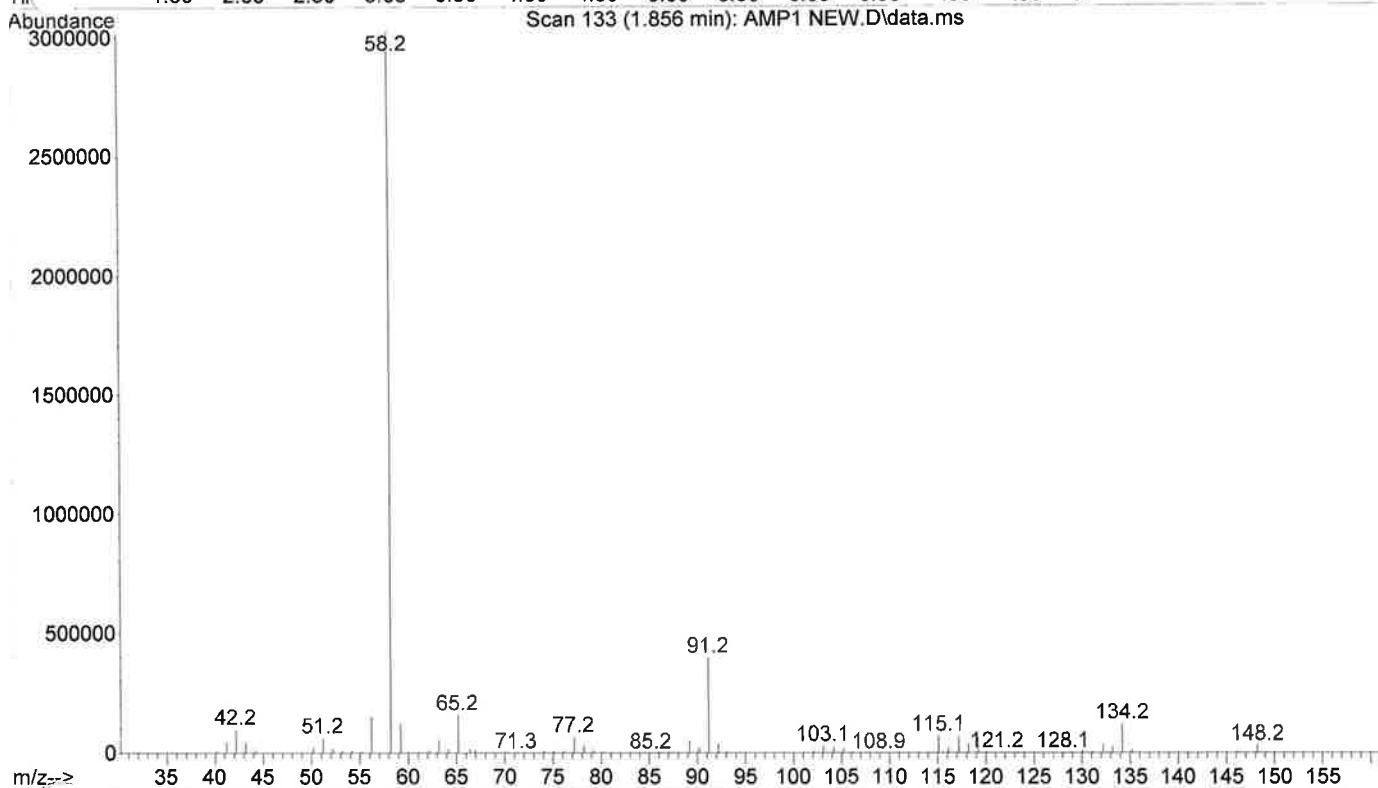
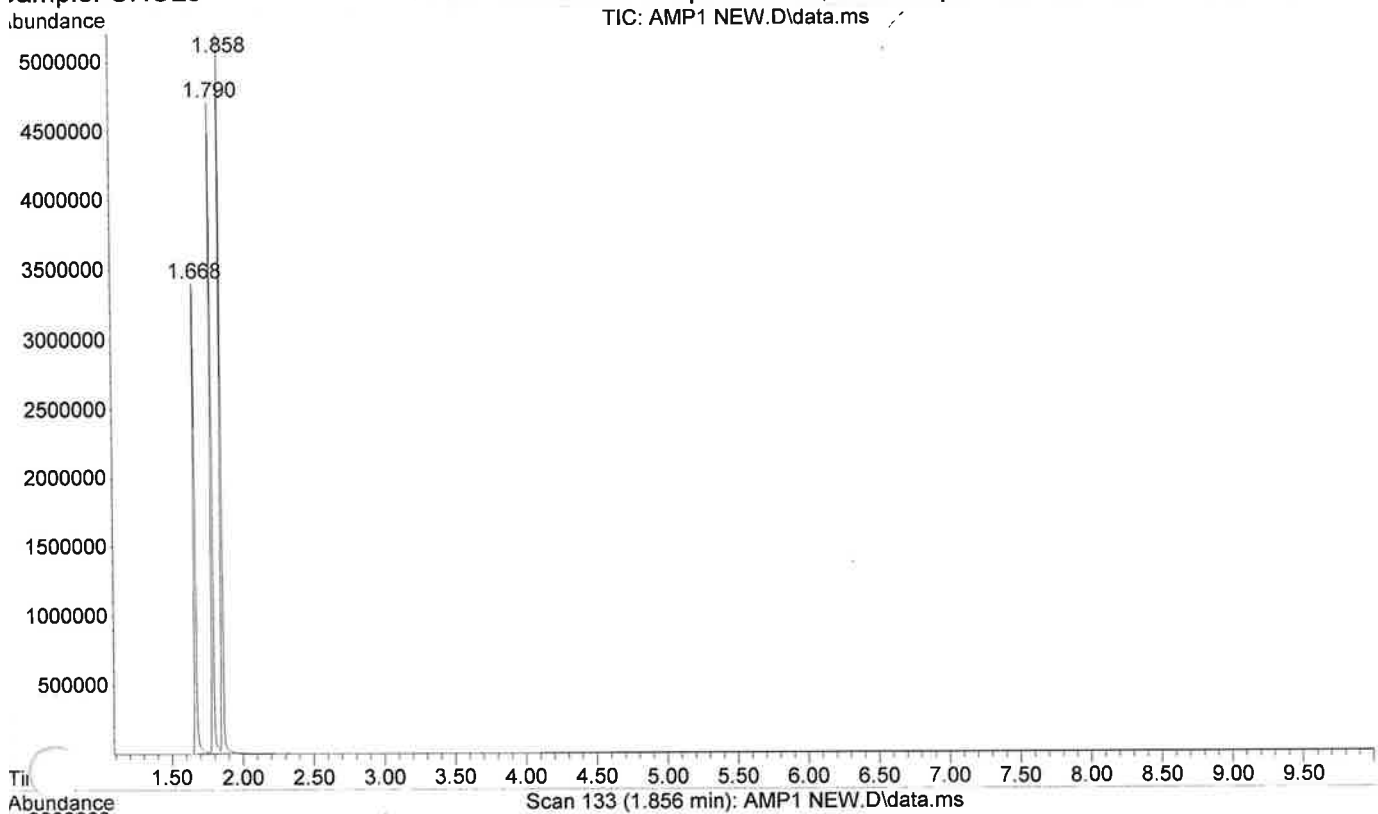
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 9:36

BMC

File: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

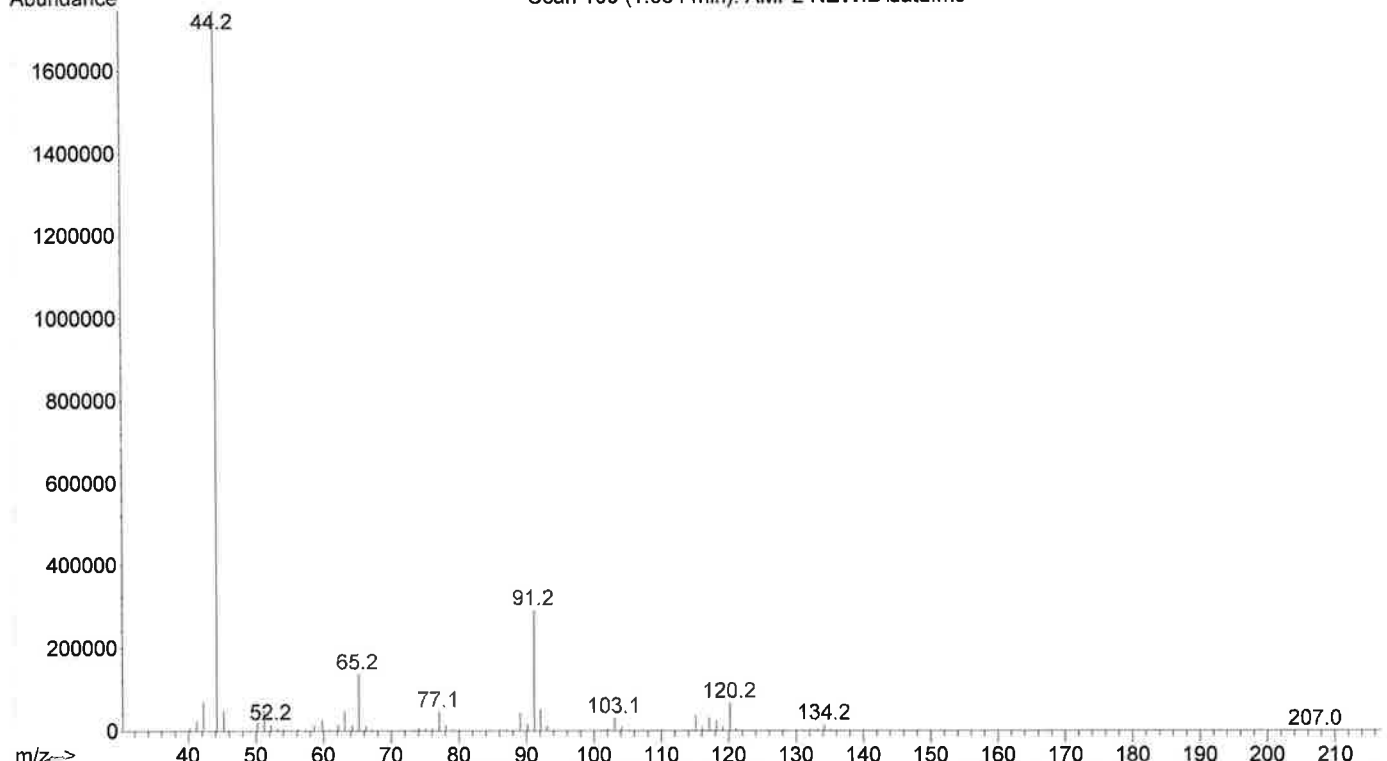
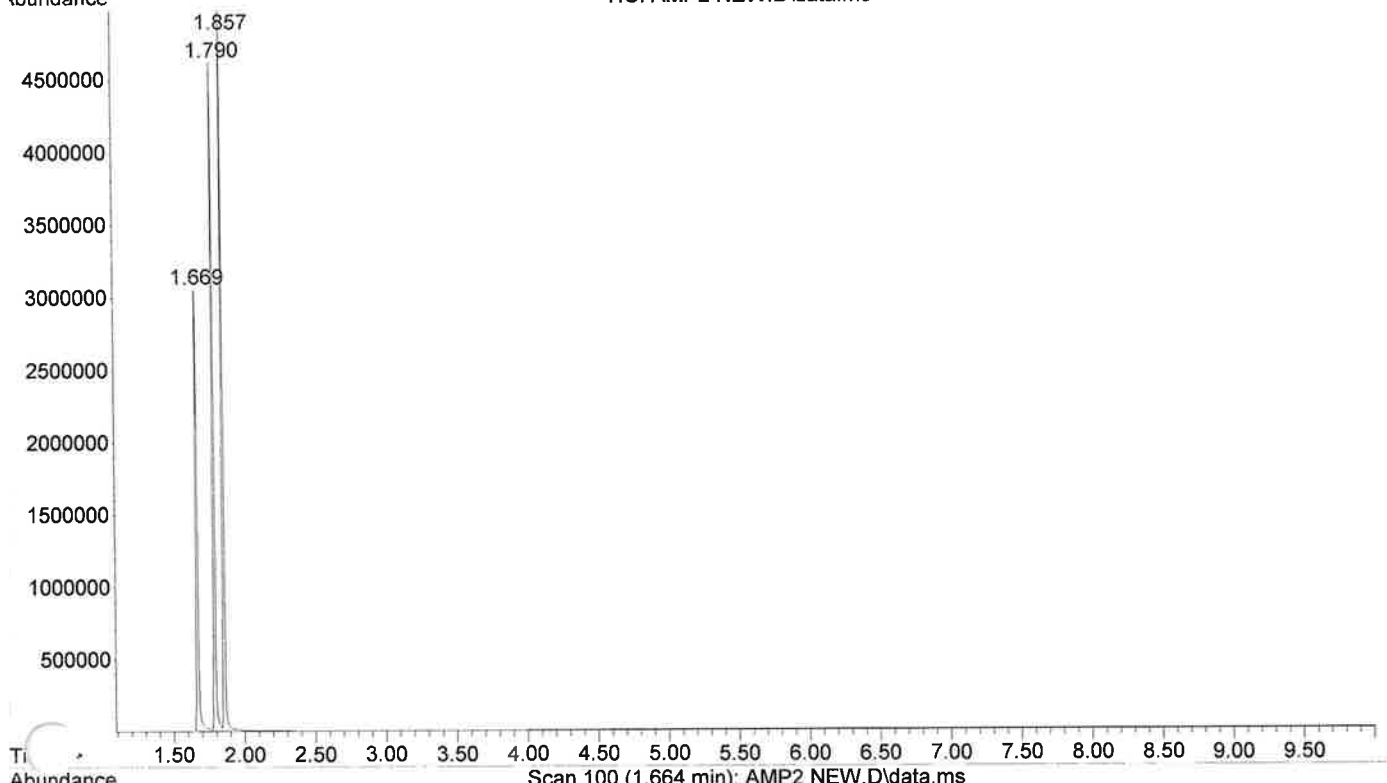


Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP2 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:05
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Emc

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP2 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP2 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:05

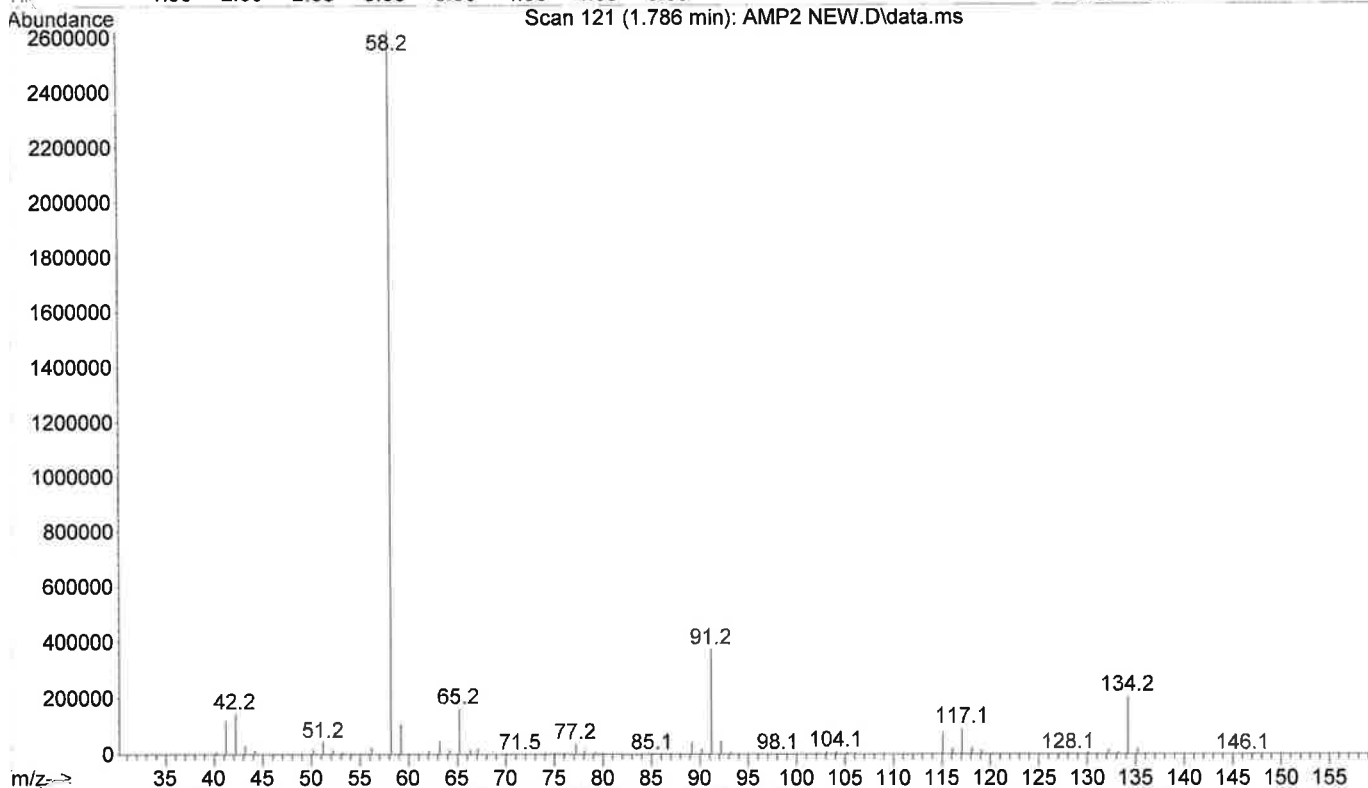
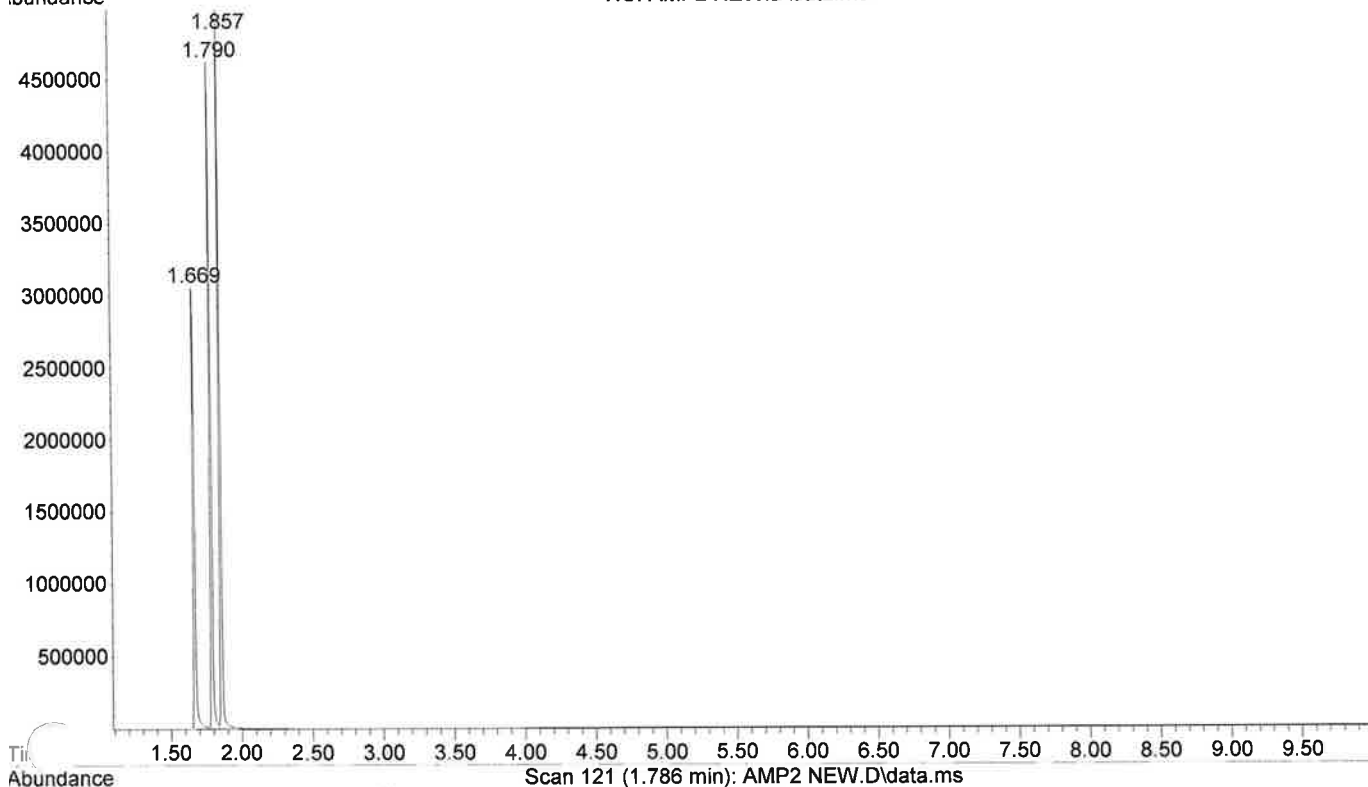
cmc

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

Abundance TIC: AMP2 NEW.D\data.ms

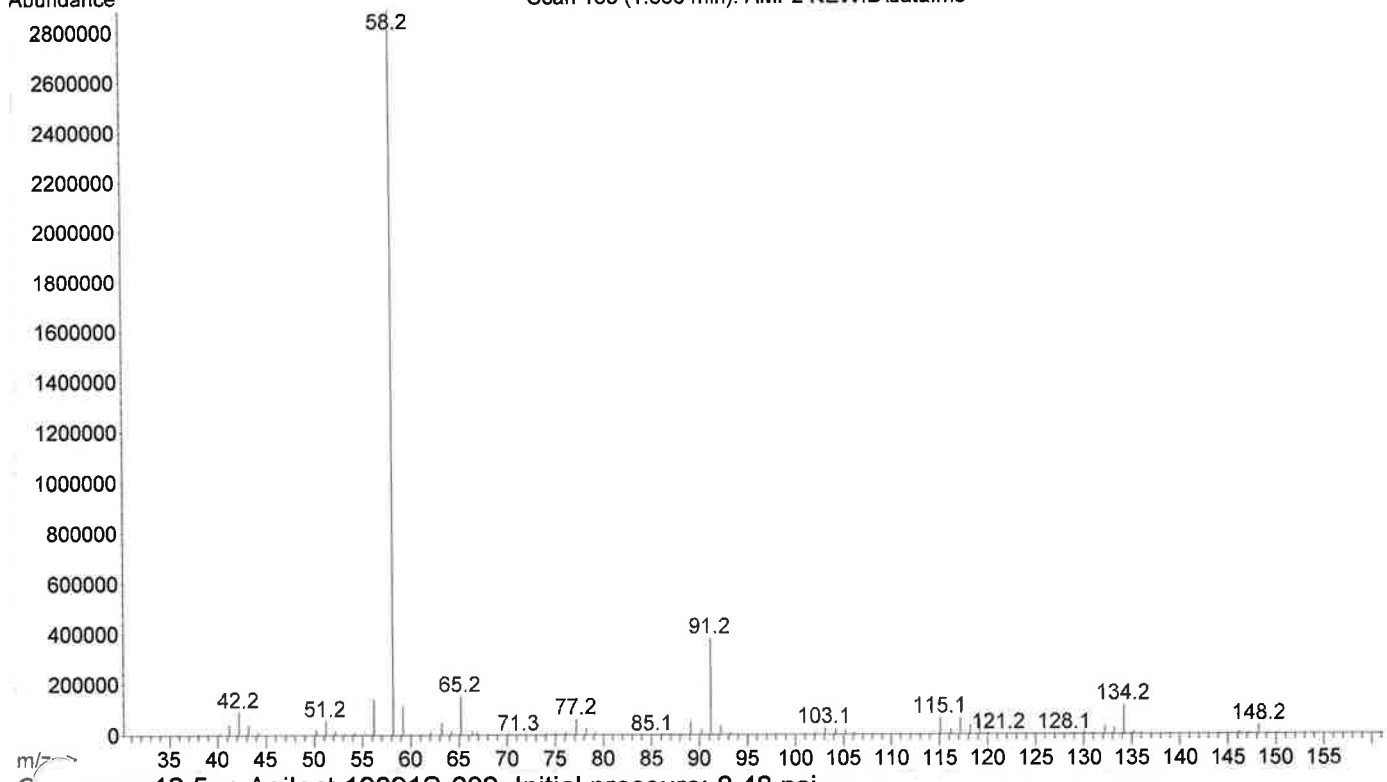
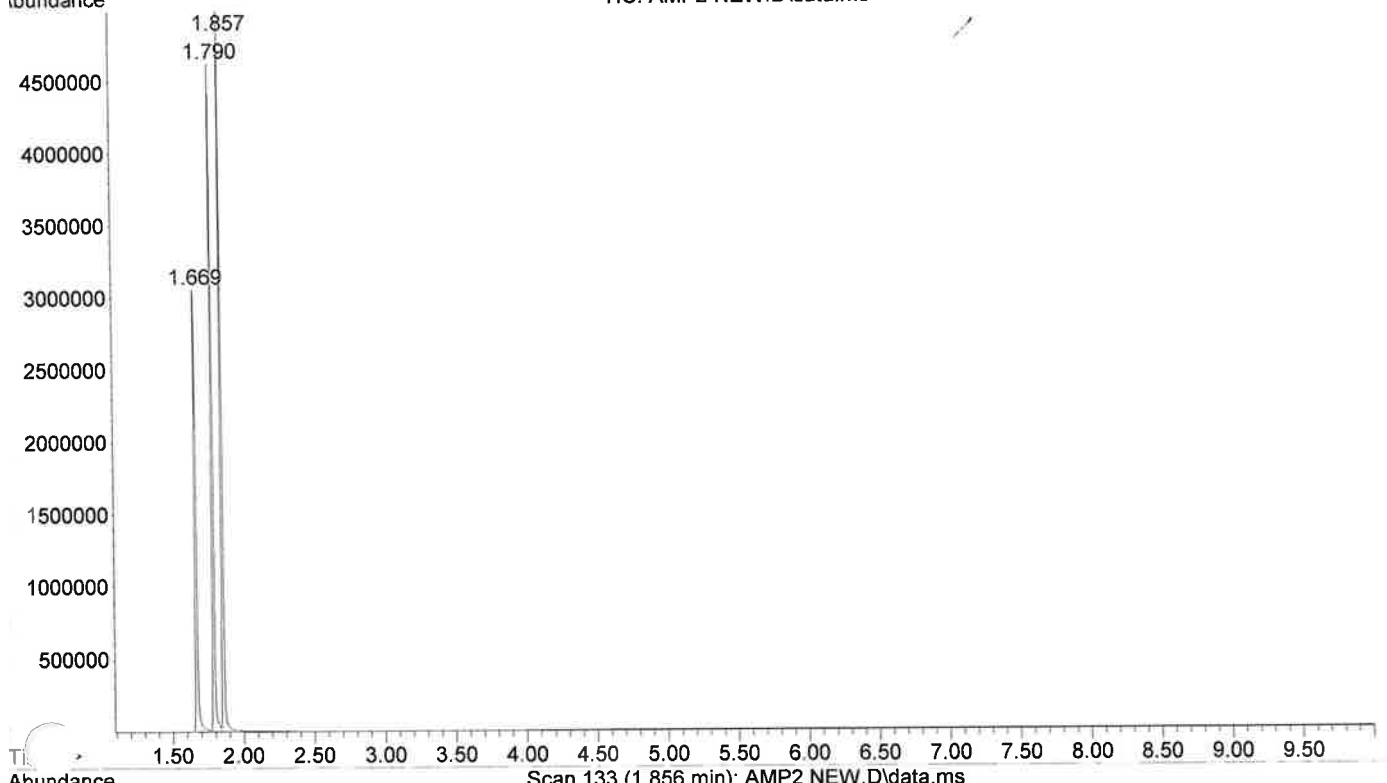


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

6mc

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP2 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:05
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: CHCL3 Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP2 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Emc

ennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP3 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

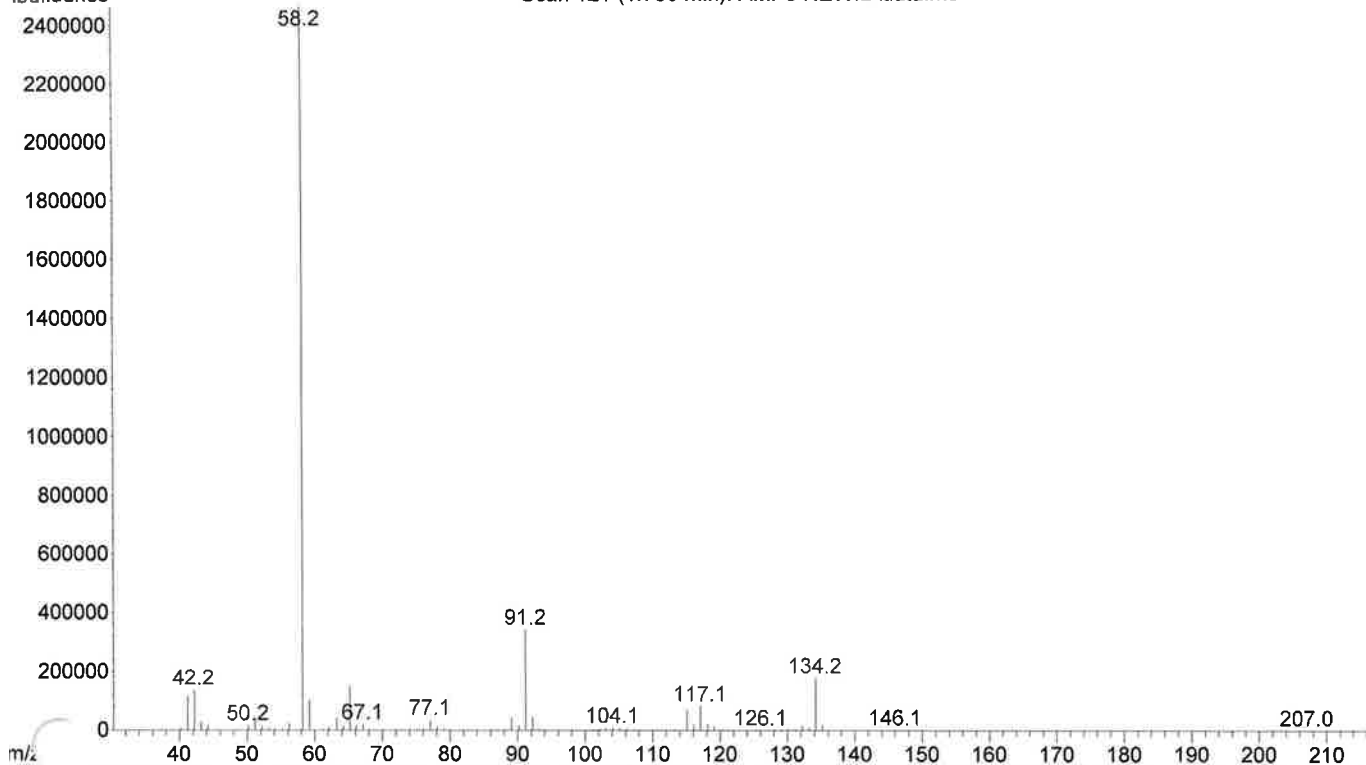
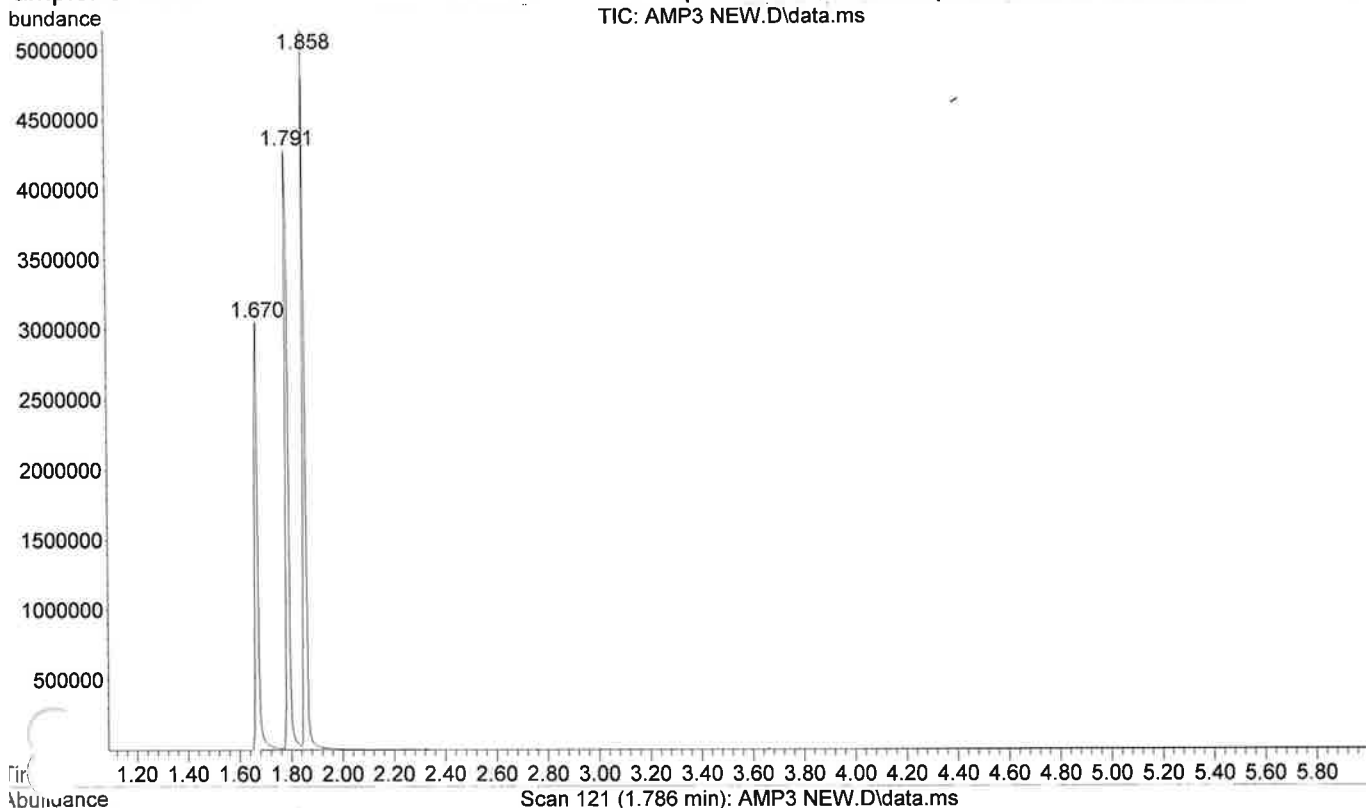
Operator: WILLIAM STANTON on 19 Jun 2017 10:30

Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP3 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

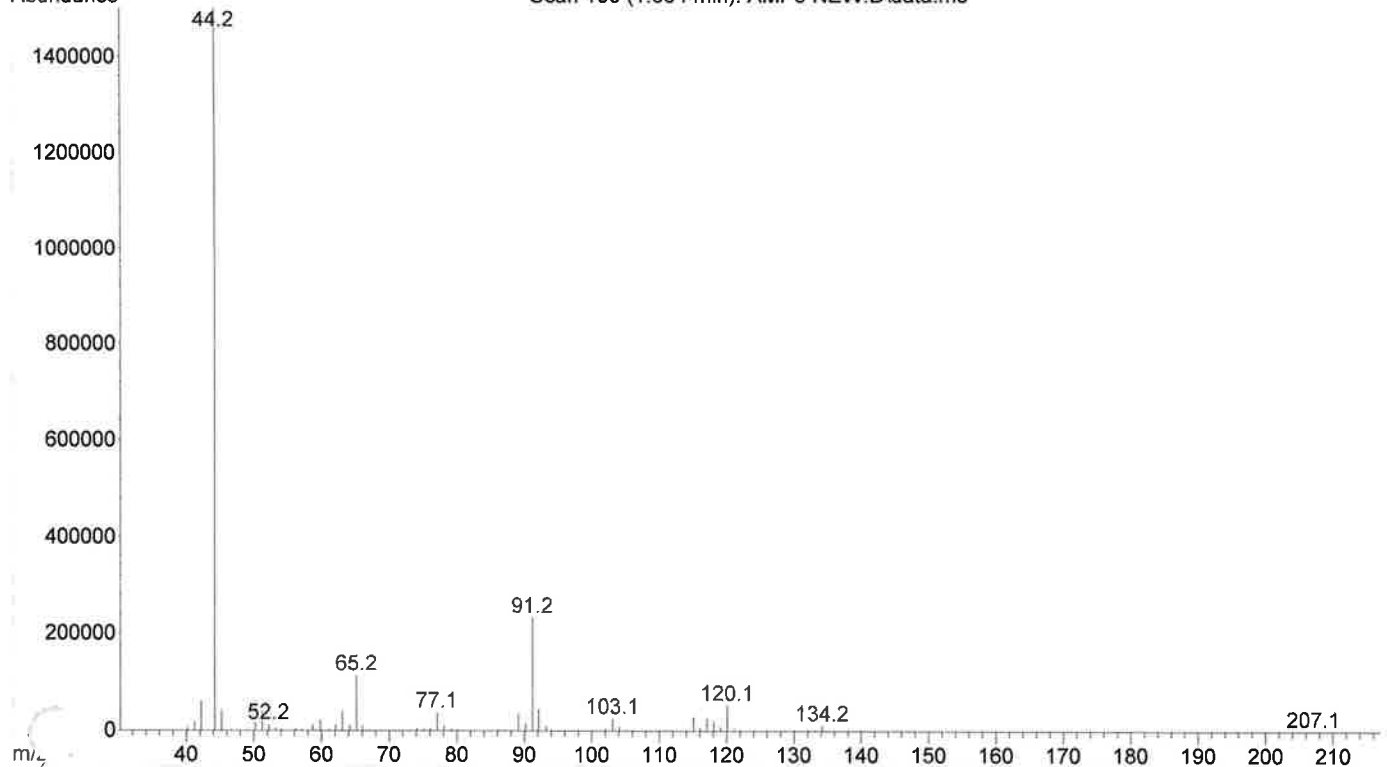
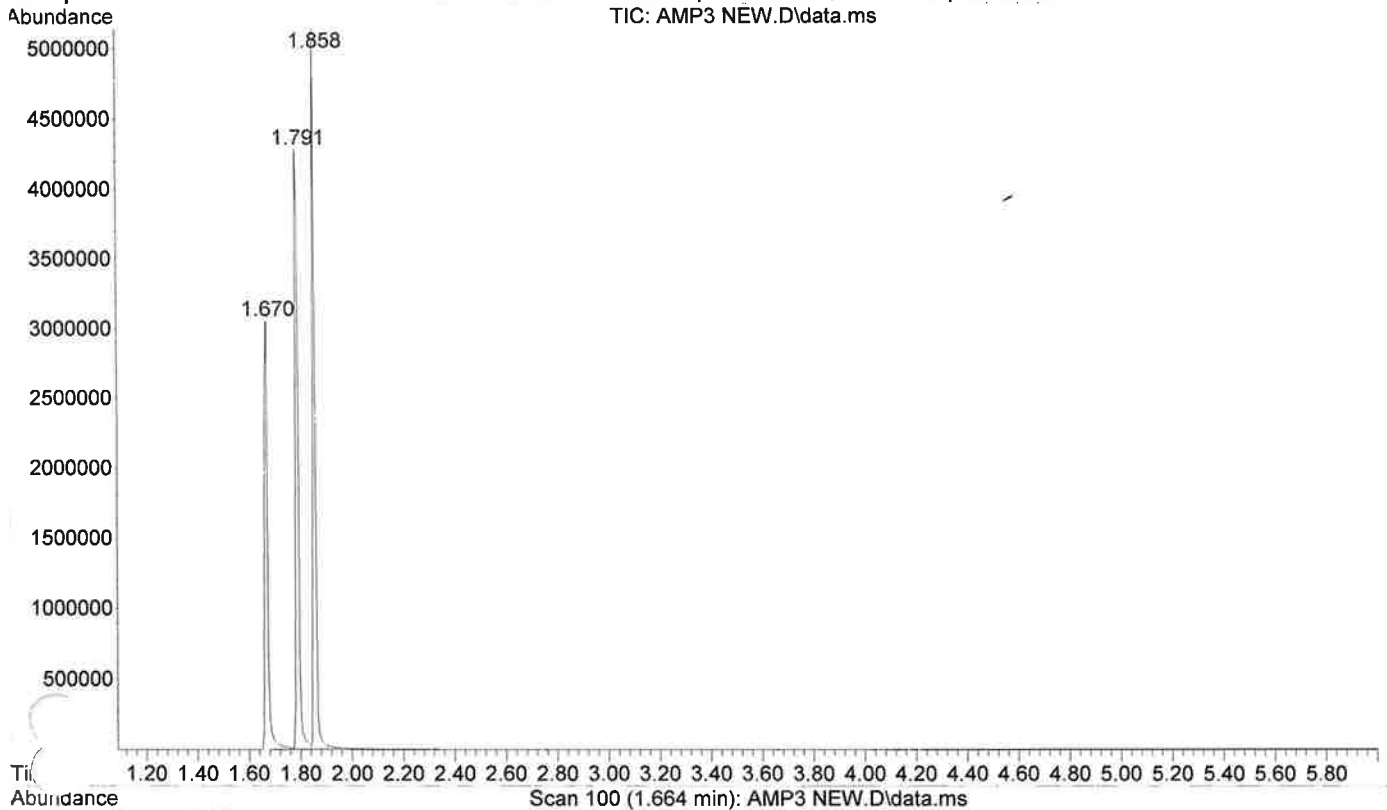
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp

70.00 280

me

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP3 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:30
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP3 NEW.D\data.ms

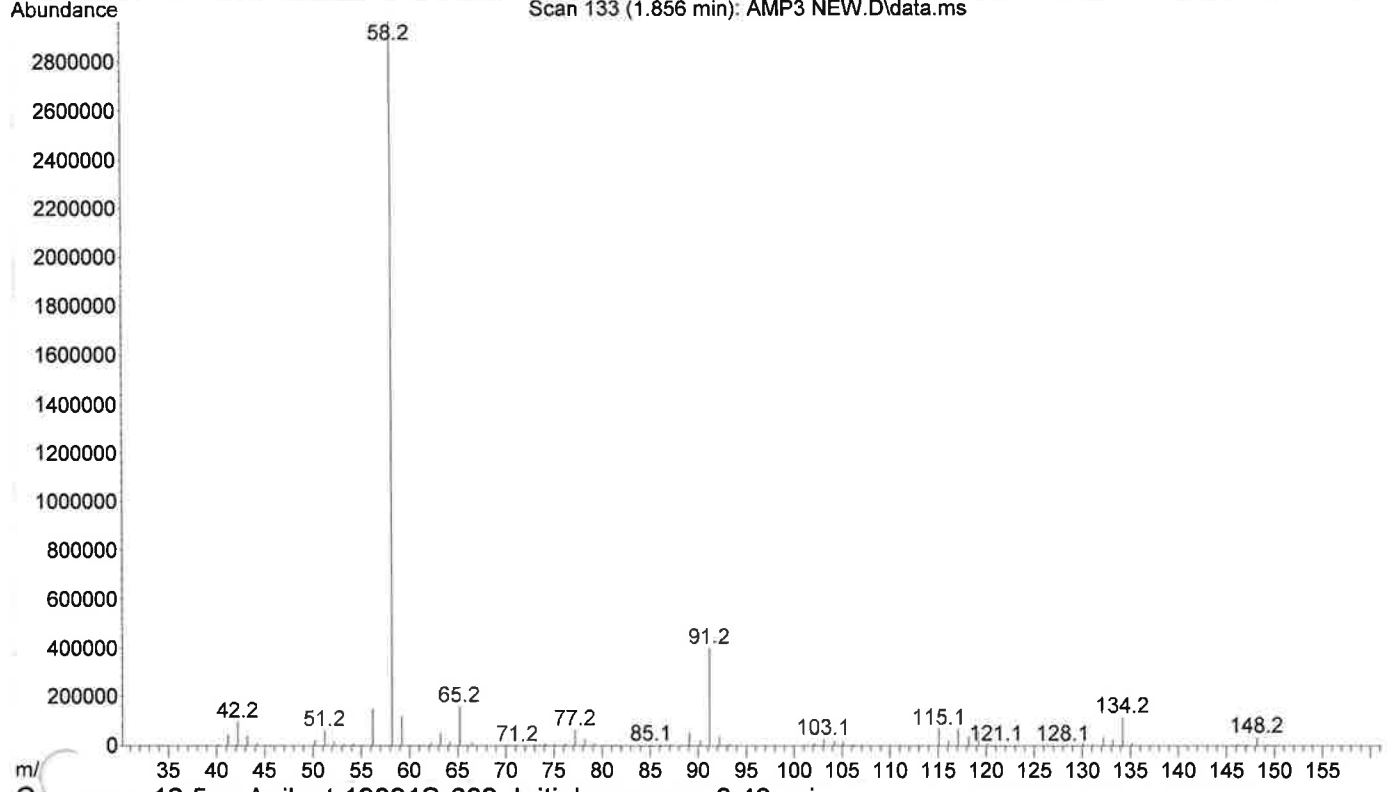
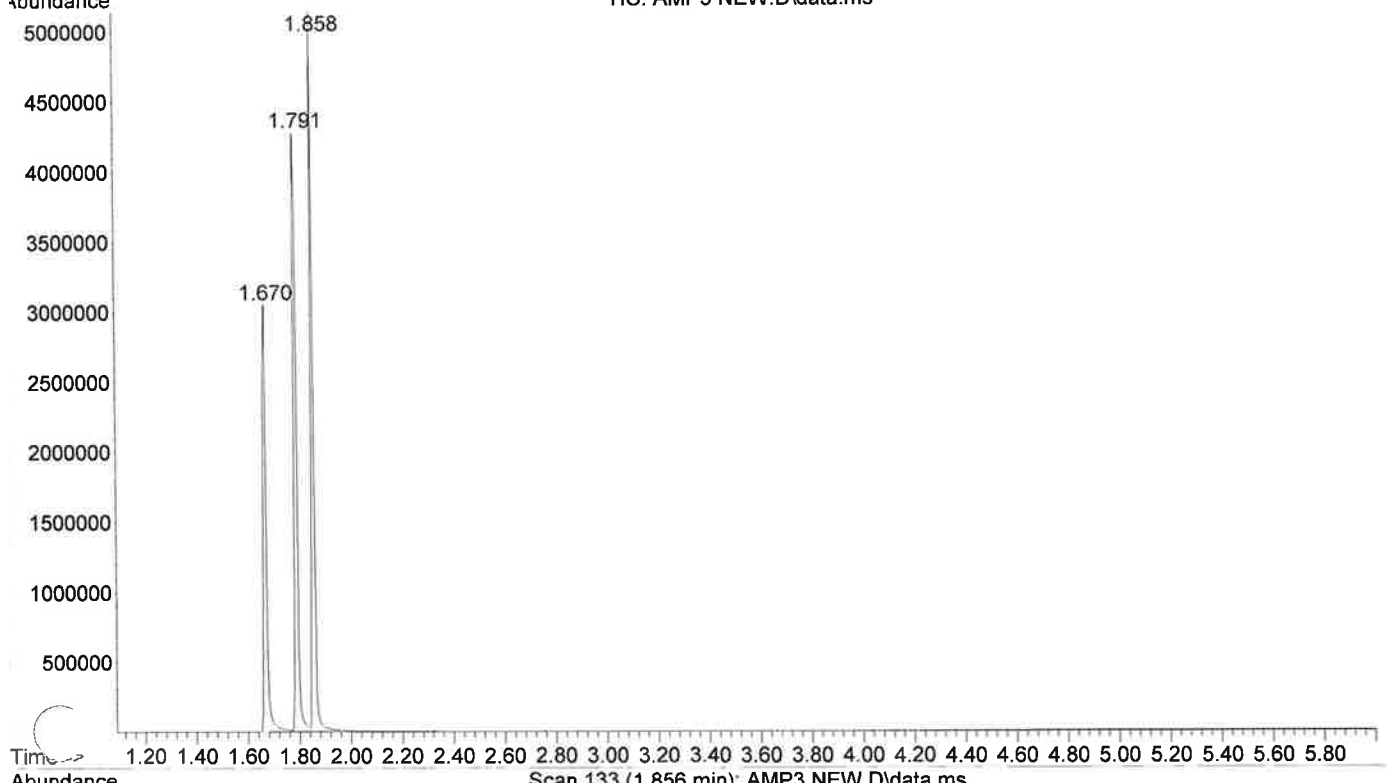


Column: 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Gme

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP3 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:30
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP3 NEW.D\data.ms

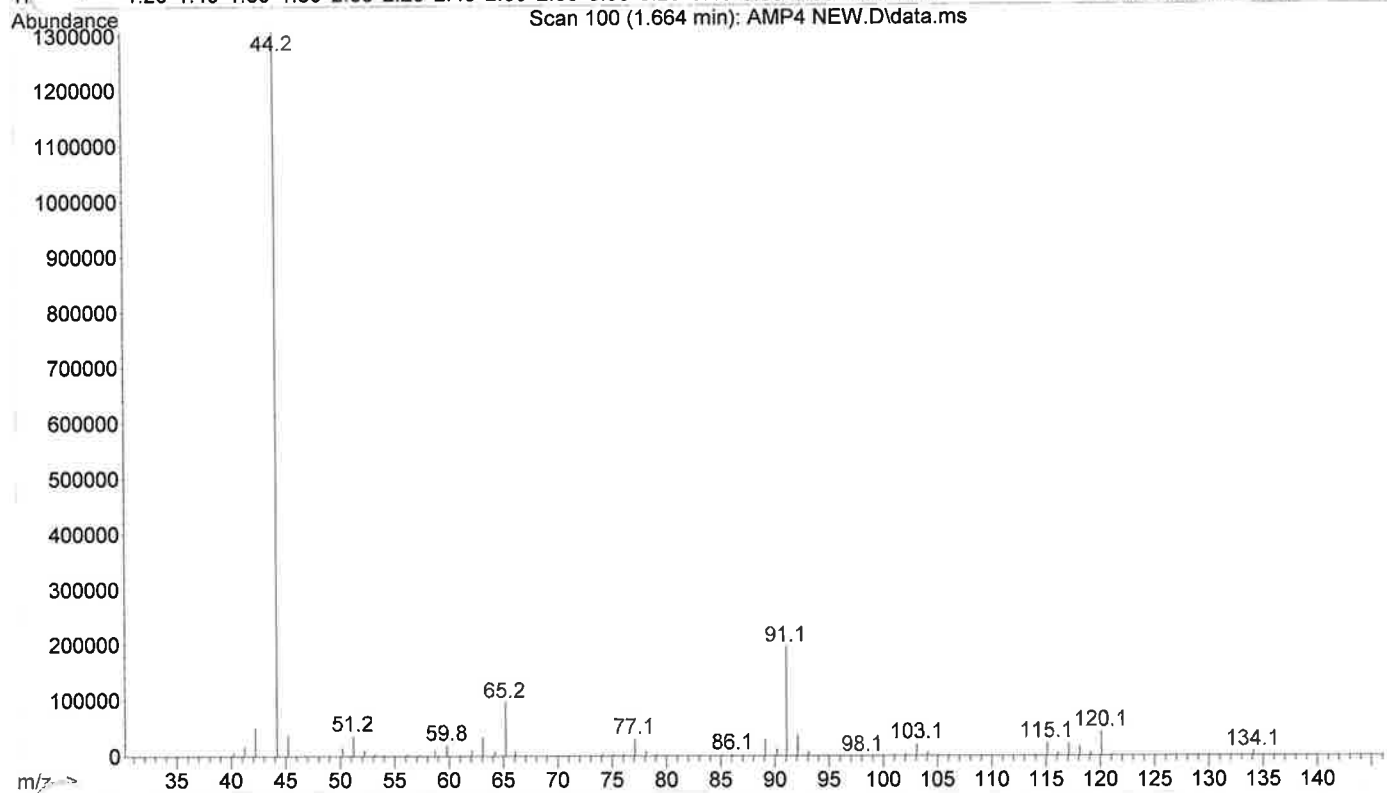
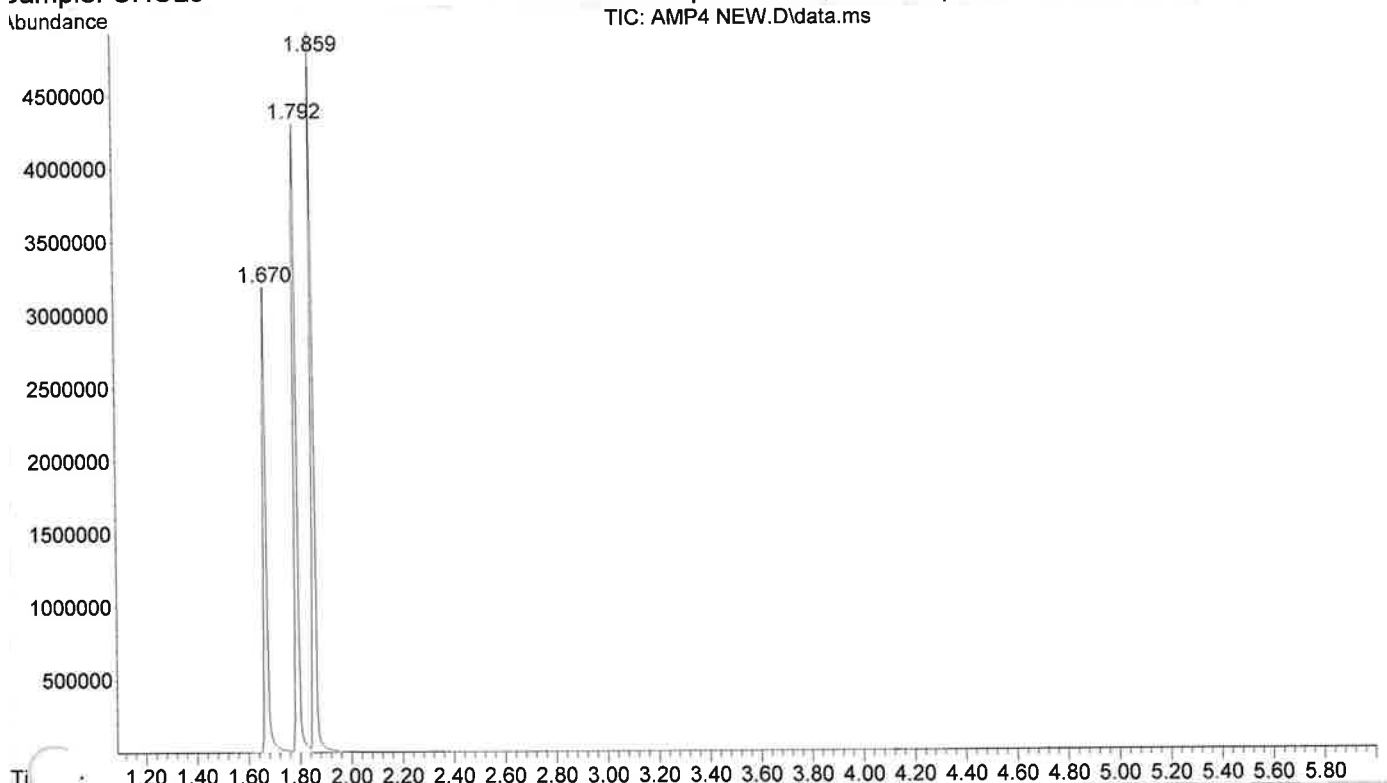


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP4 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:50
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Eme

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP4 NEW.D\data.ms

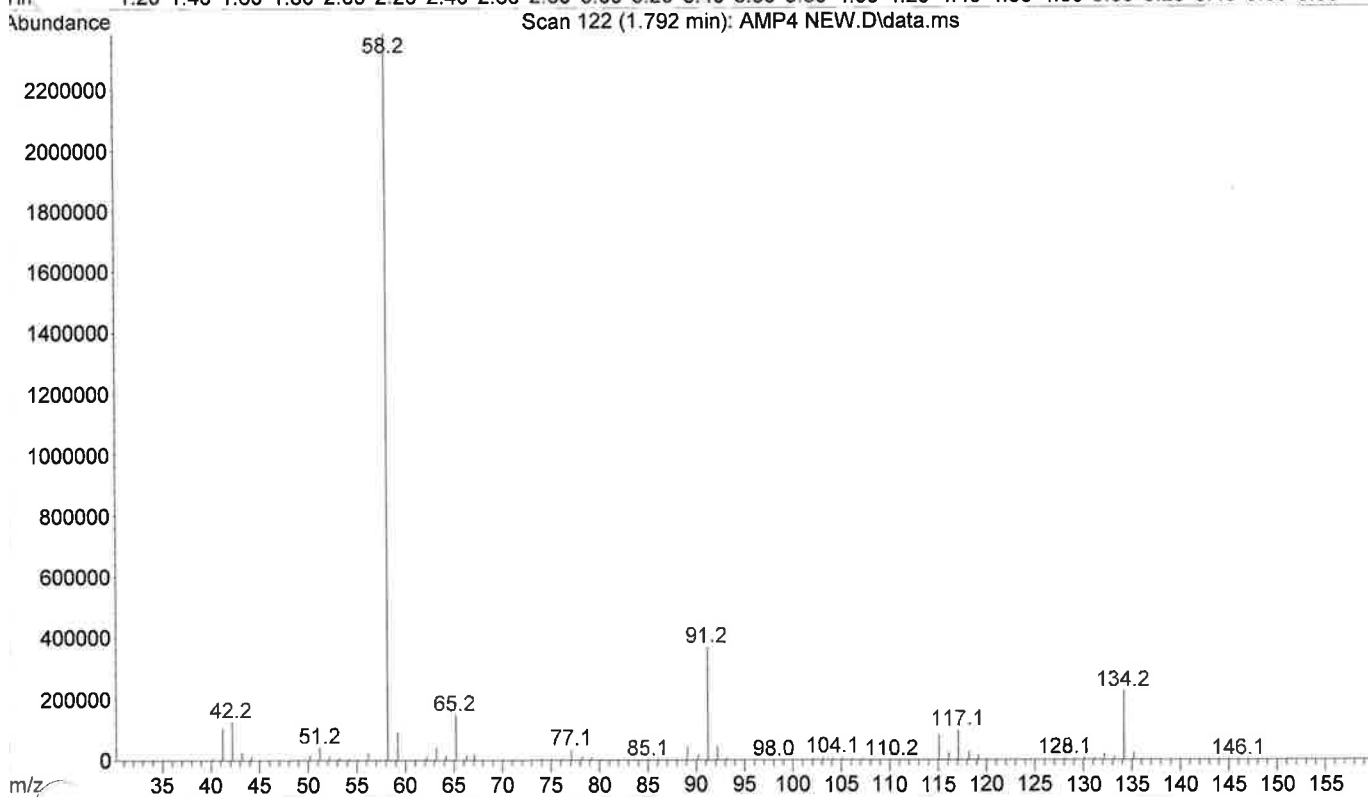
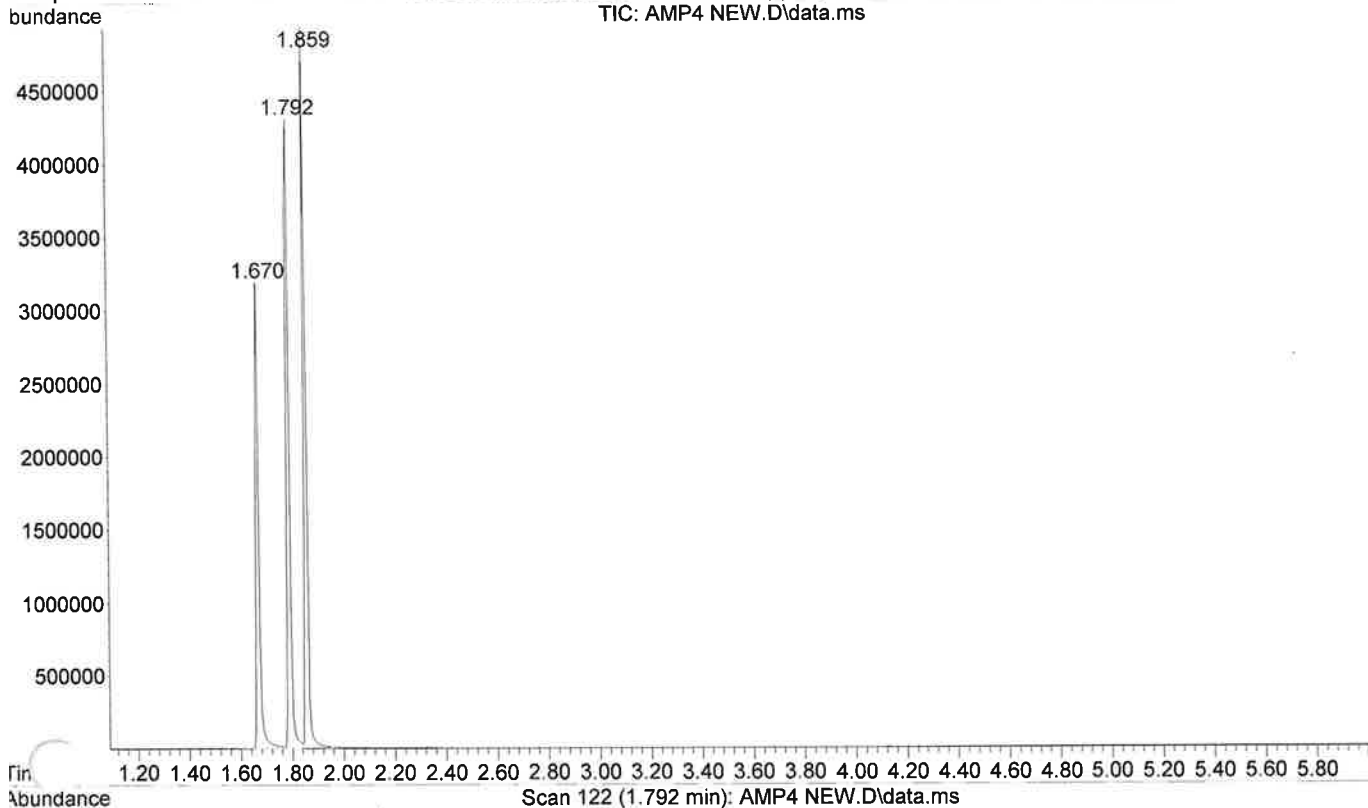


Method: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Emc

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP4 NEW.D
Acquired on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:50
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP4 NEW.D\data.ms

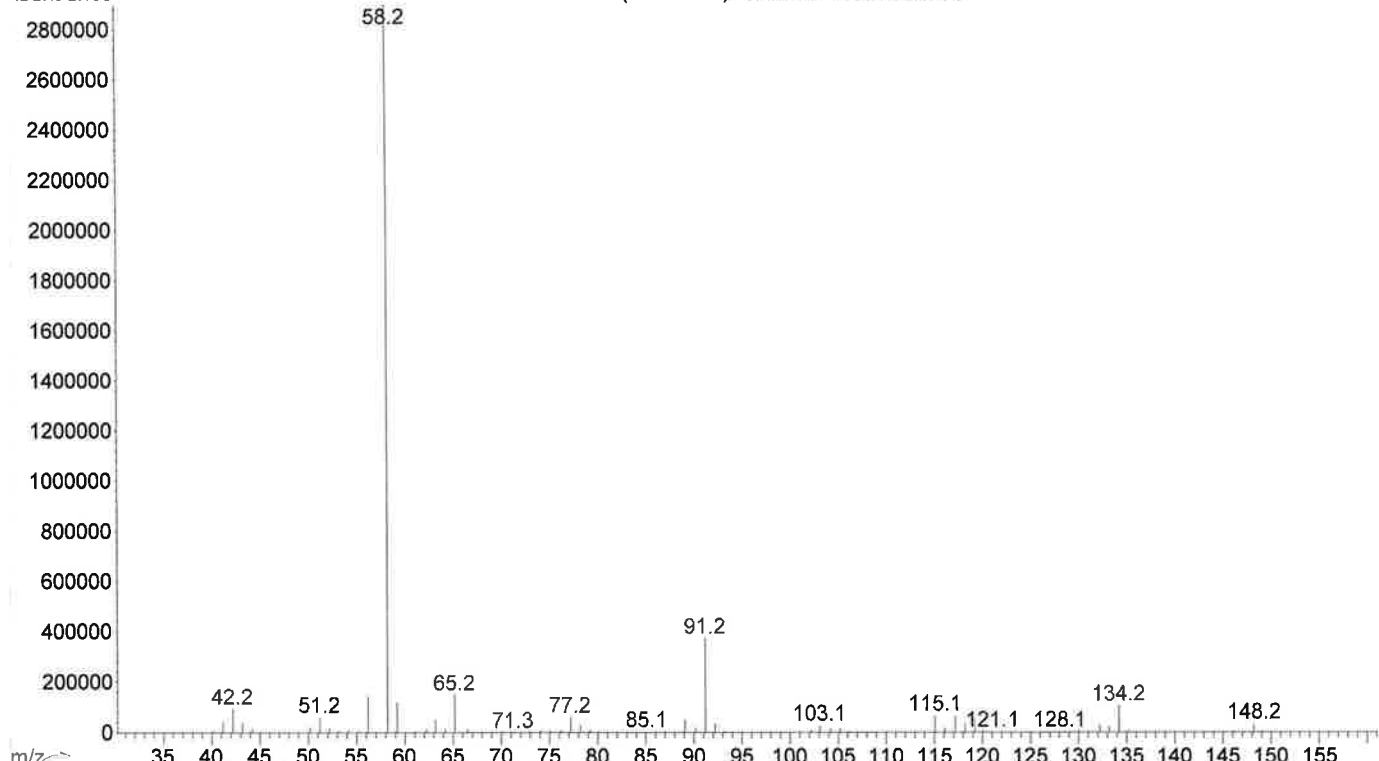
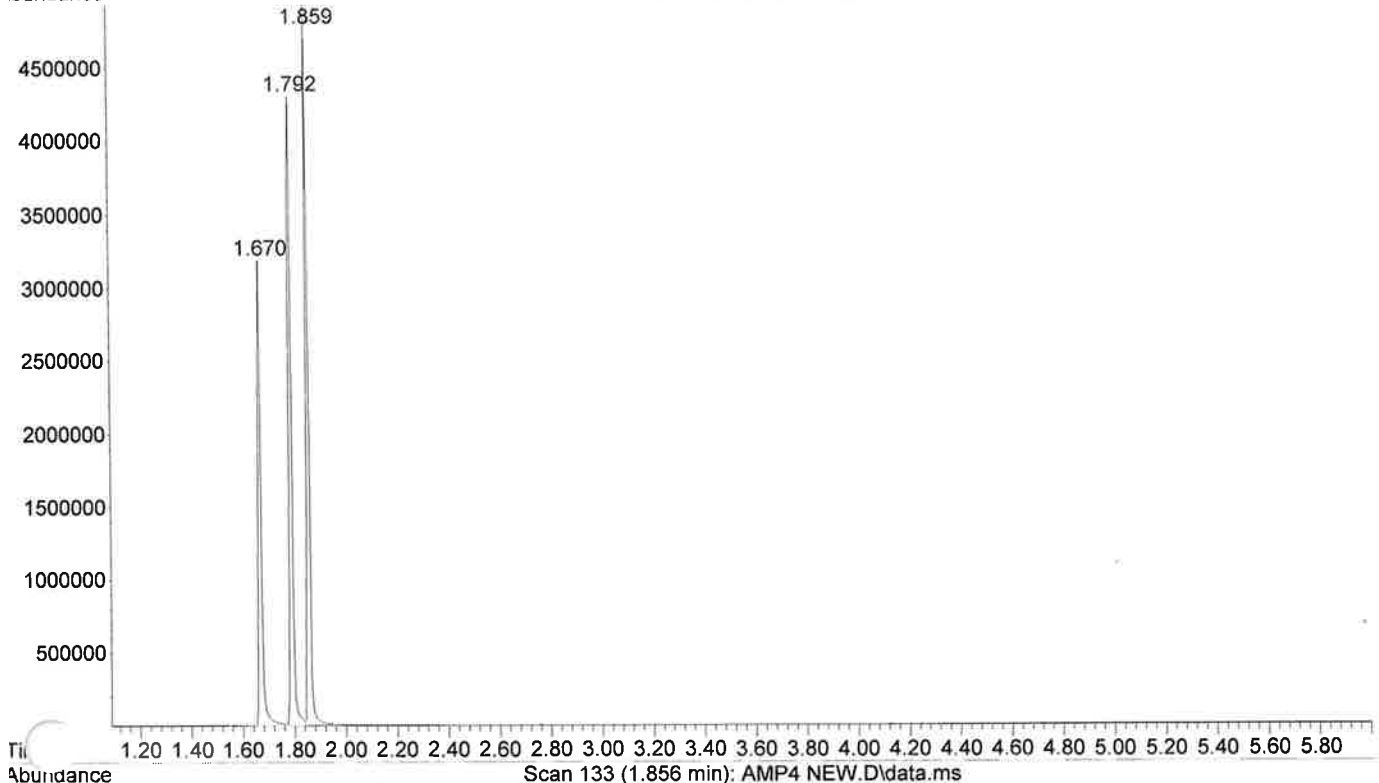


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

BMC

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP4 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:50
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: CHCL3 Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP4 NEW.D\data.ms

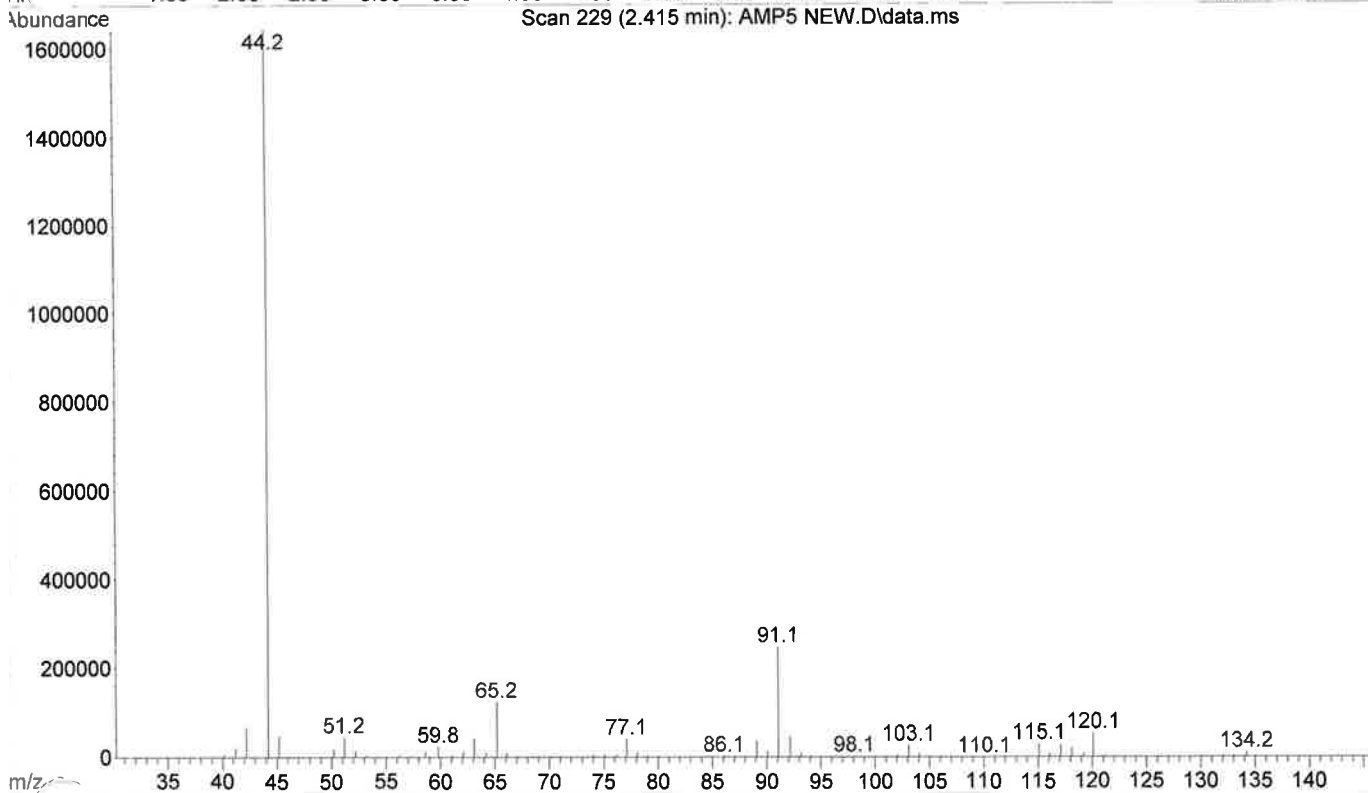
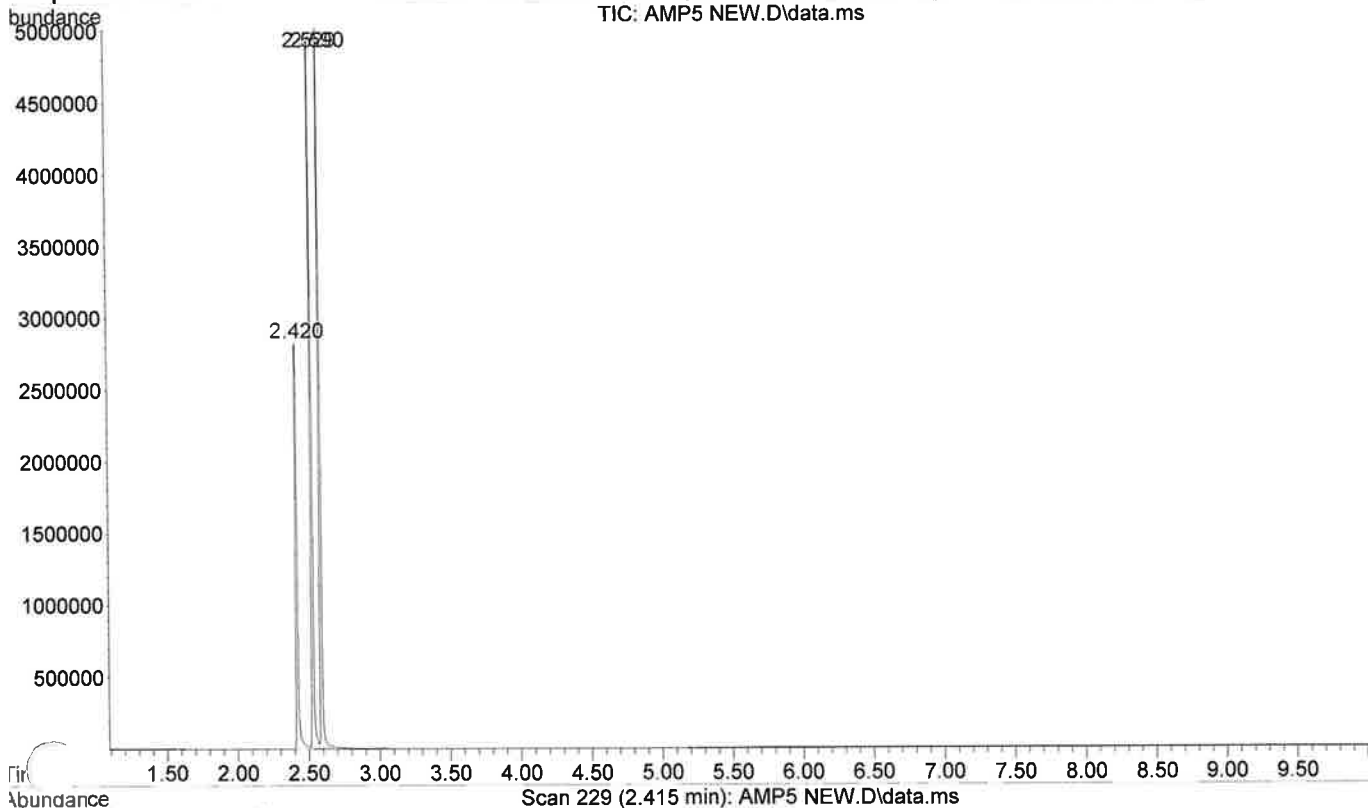


Concentration: 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Emc

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP5 NEW.D
Acquired on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 11:27
File: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M
Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP5 NEW.D\data.ms

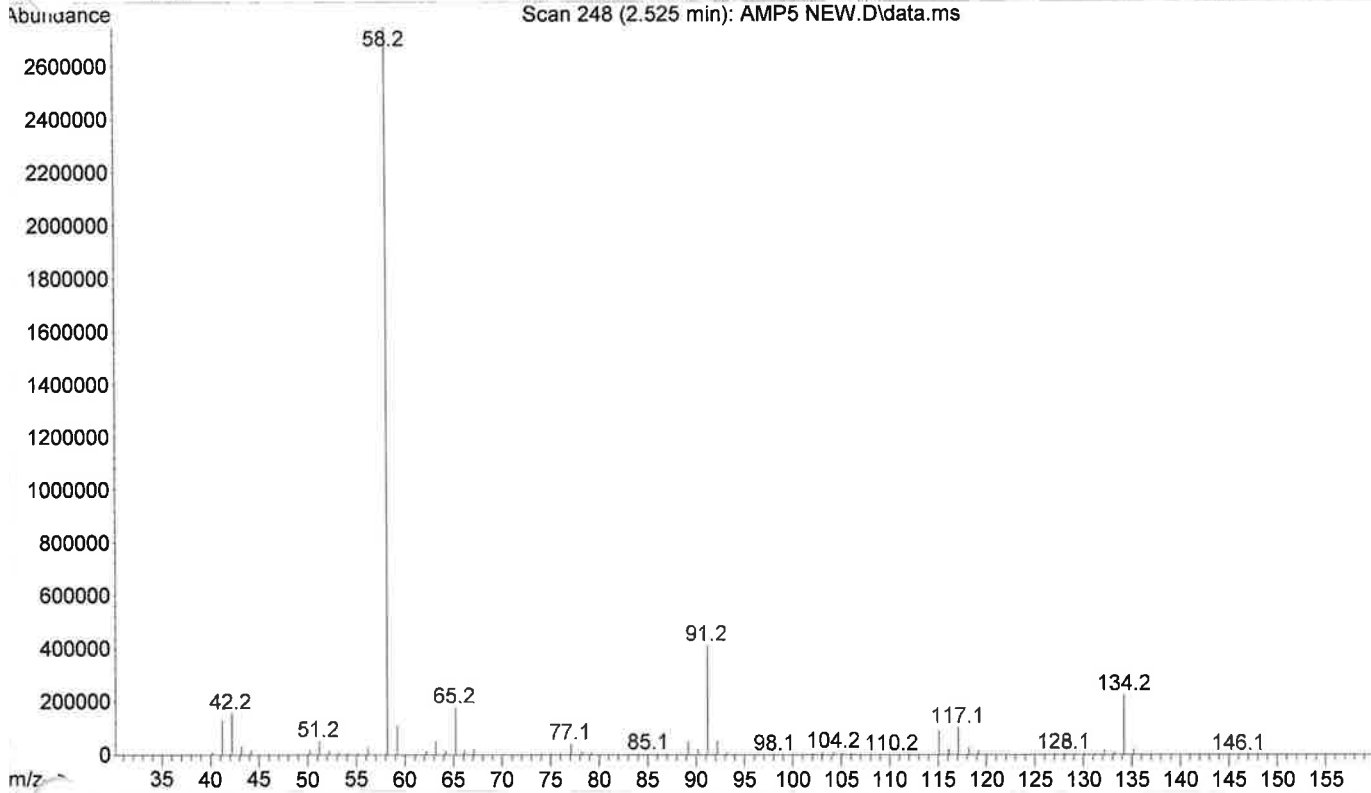
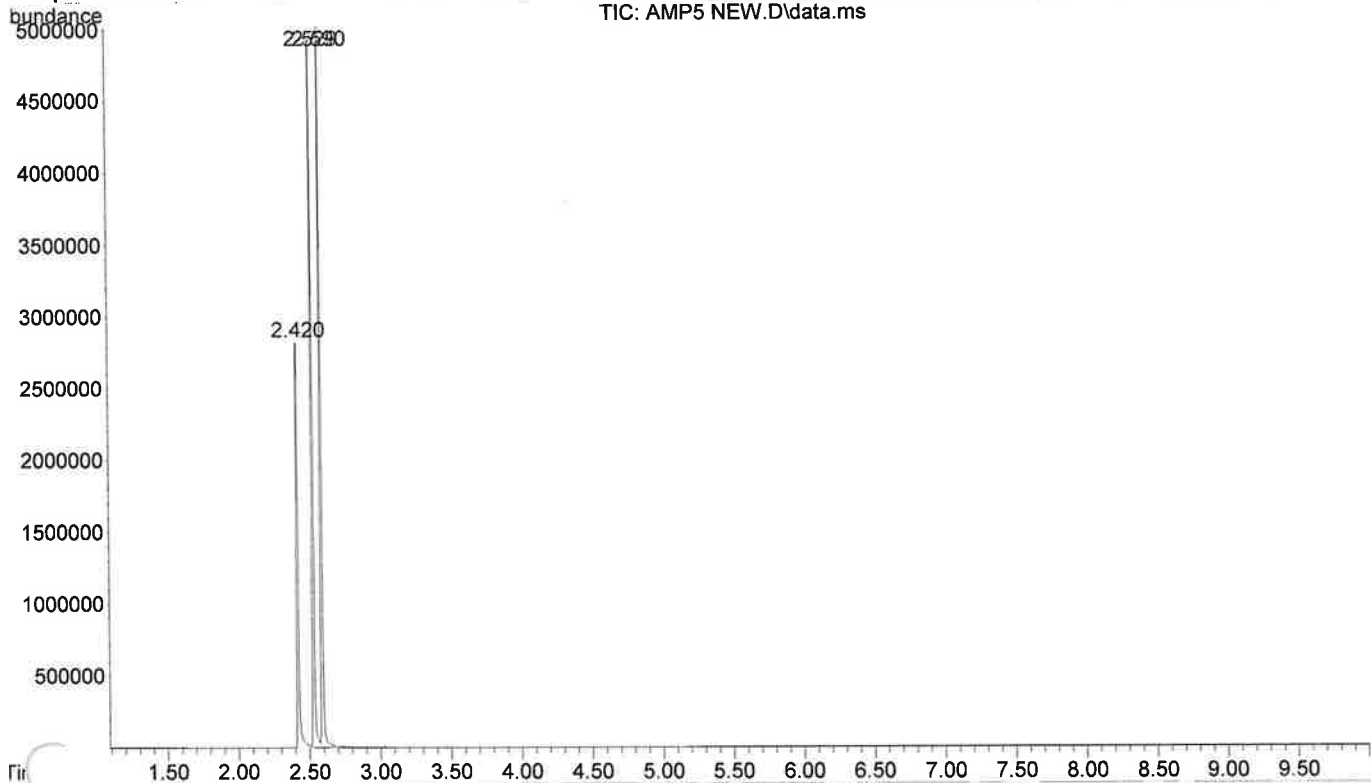


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Gmc

ennessee Bureau of Investigation: Memphis Crime Laboratory
ile: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP5 NEW.D
uned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
strument: Graceland (model: 5973N Serial number: US03960484)
operator: WILLIAM STANTON on 19 Jun 2017 11:27
id: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: CHCL3
Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP5 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

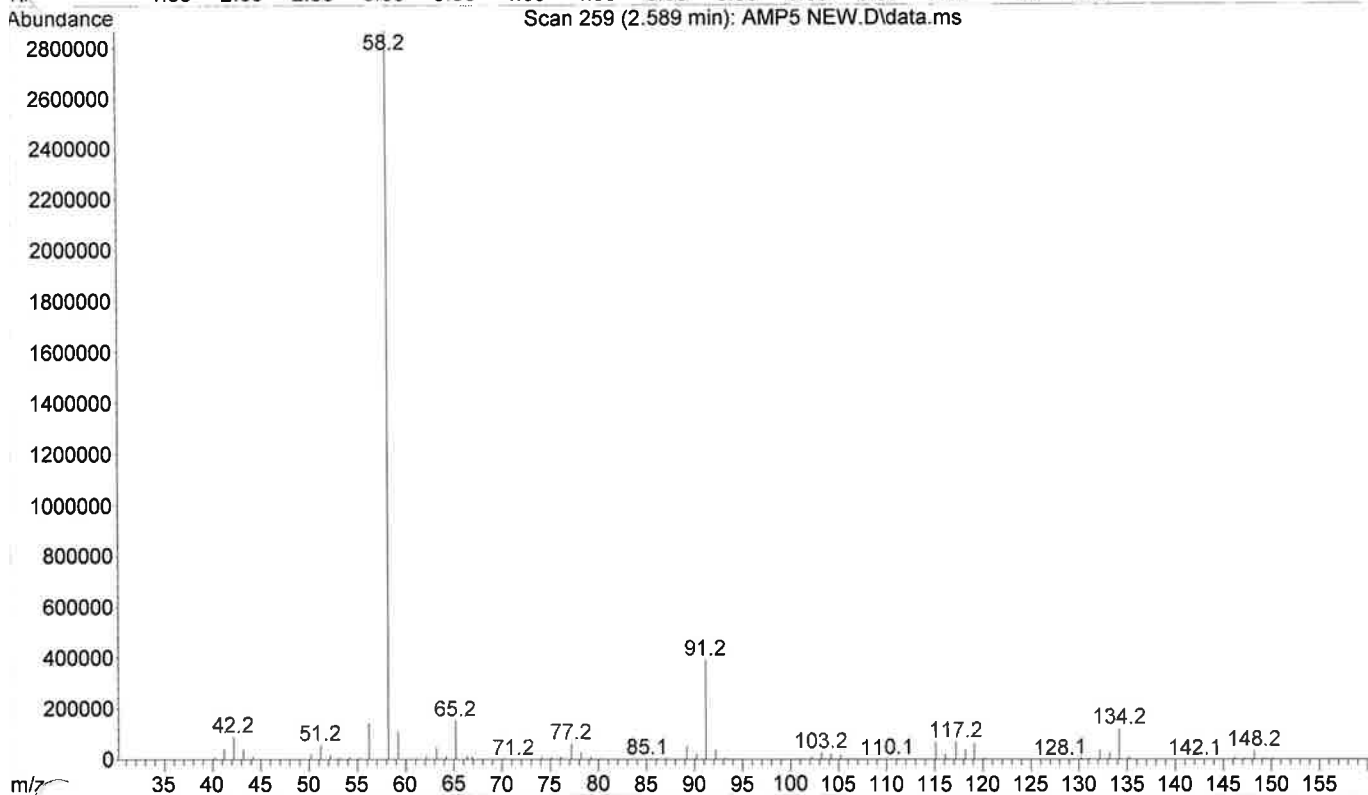
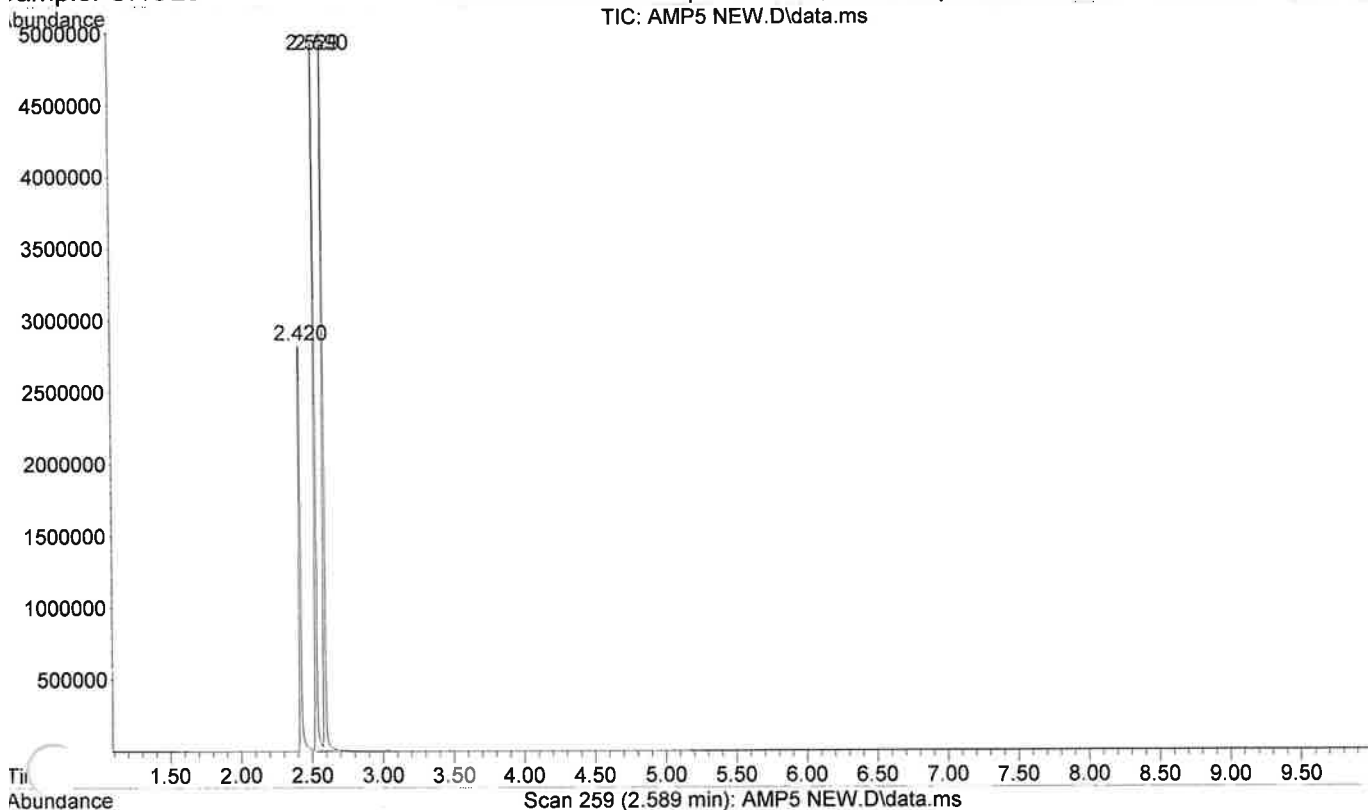
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Tennessee Bureau of Investigation: Memphis Crime Laboratory
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Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 11:27
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP5 NEW.D\data.ms

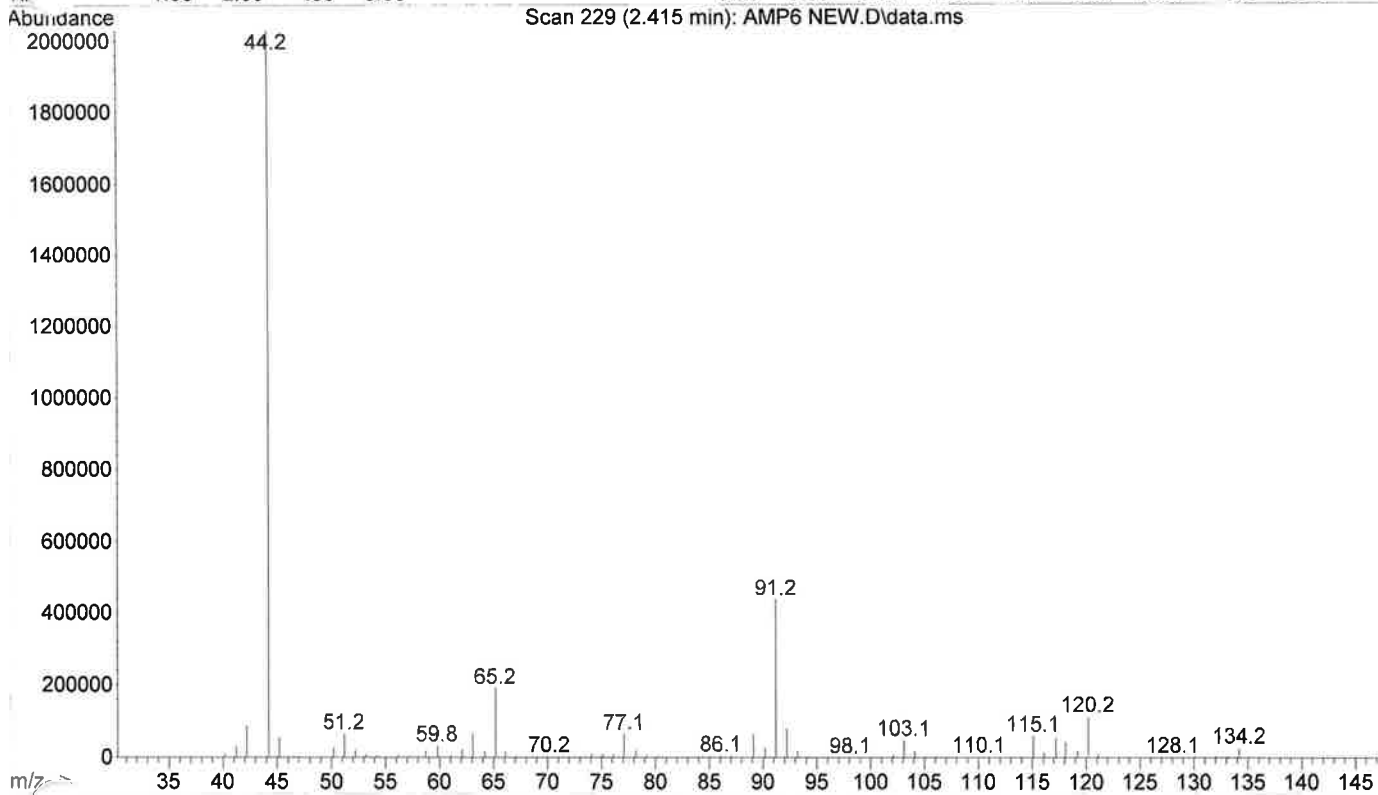
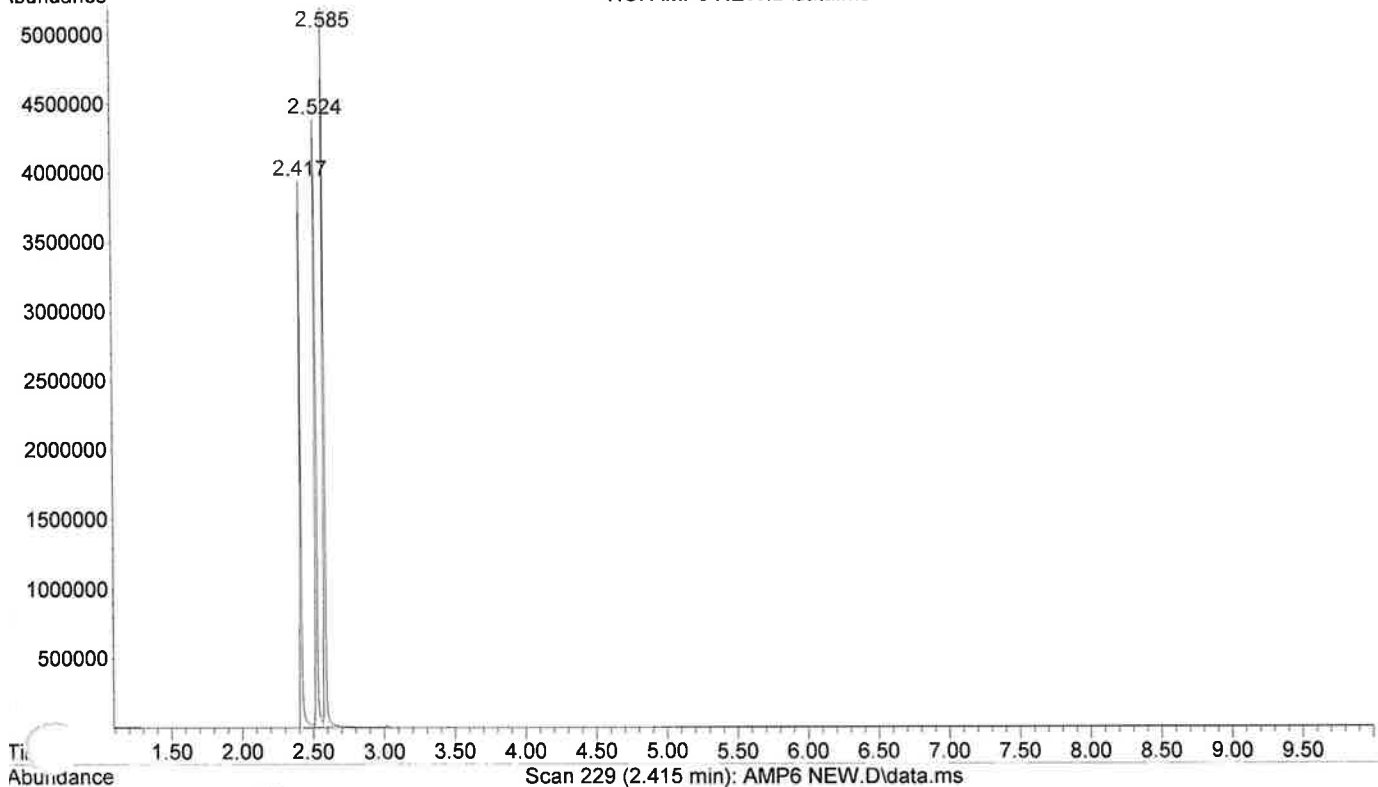


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP6 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 12:00
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Emc

Sample: CHCL3 Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP6 NEW.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

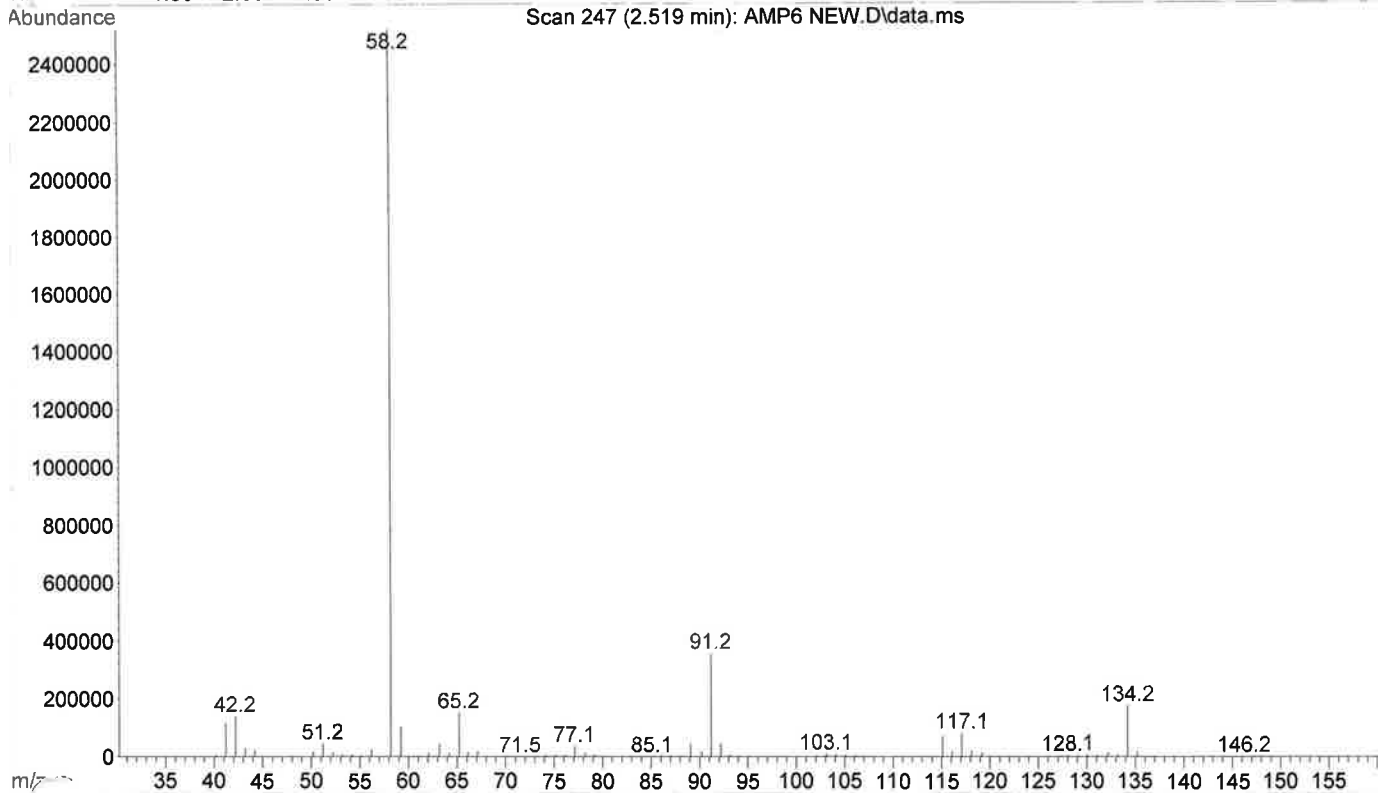
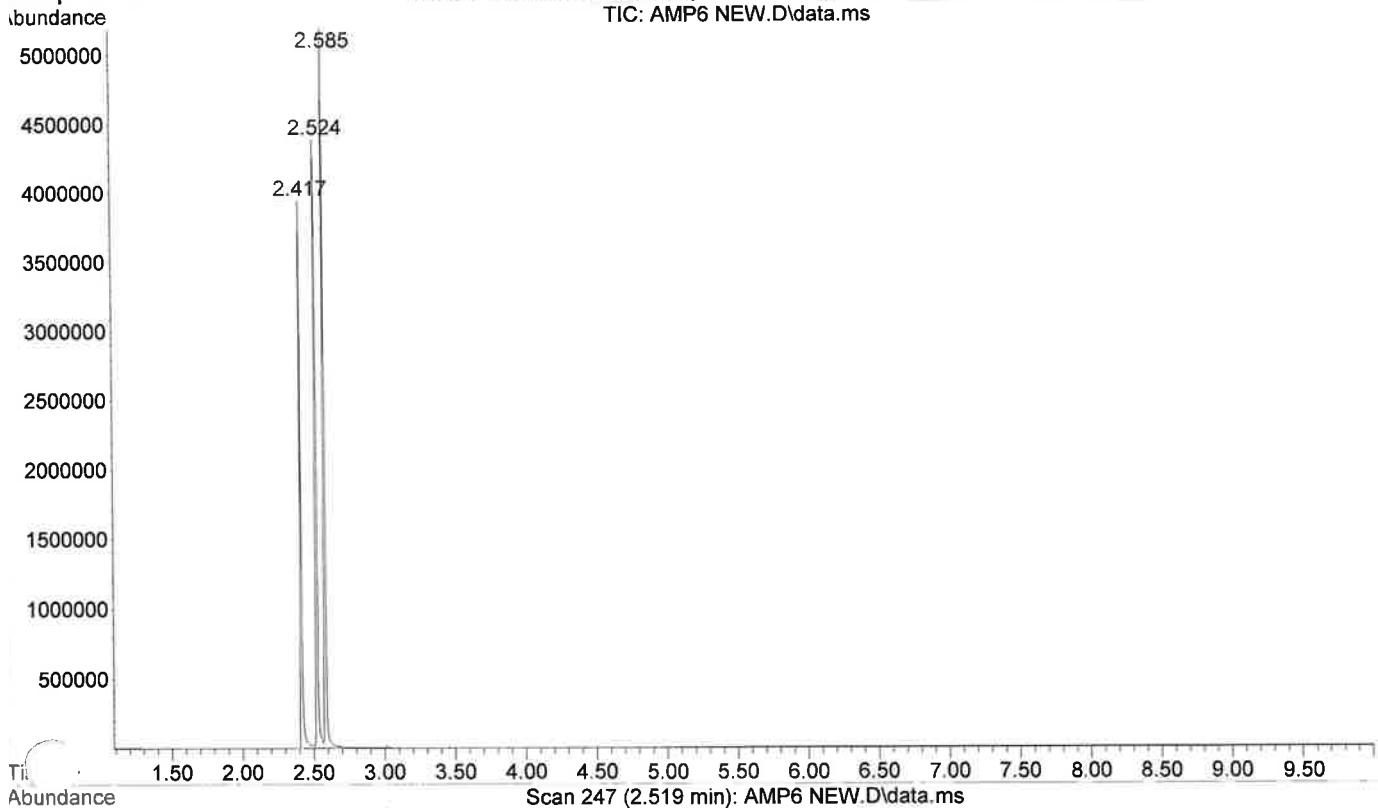
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP6 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 12:00
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Gmc

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP6 NEW.D\data.ms



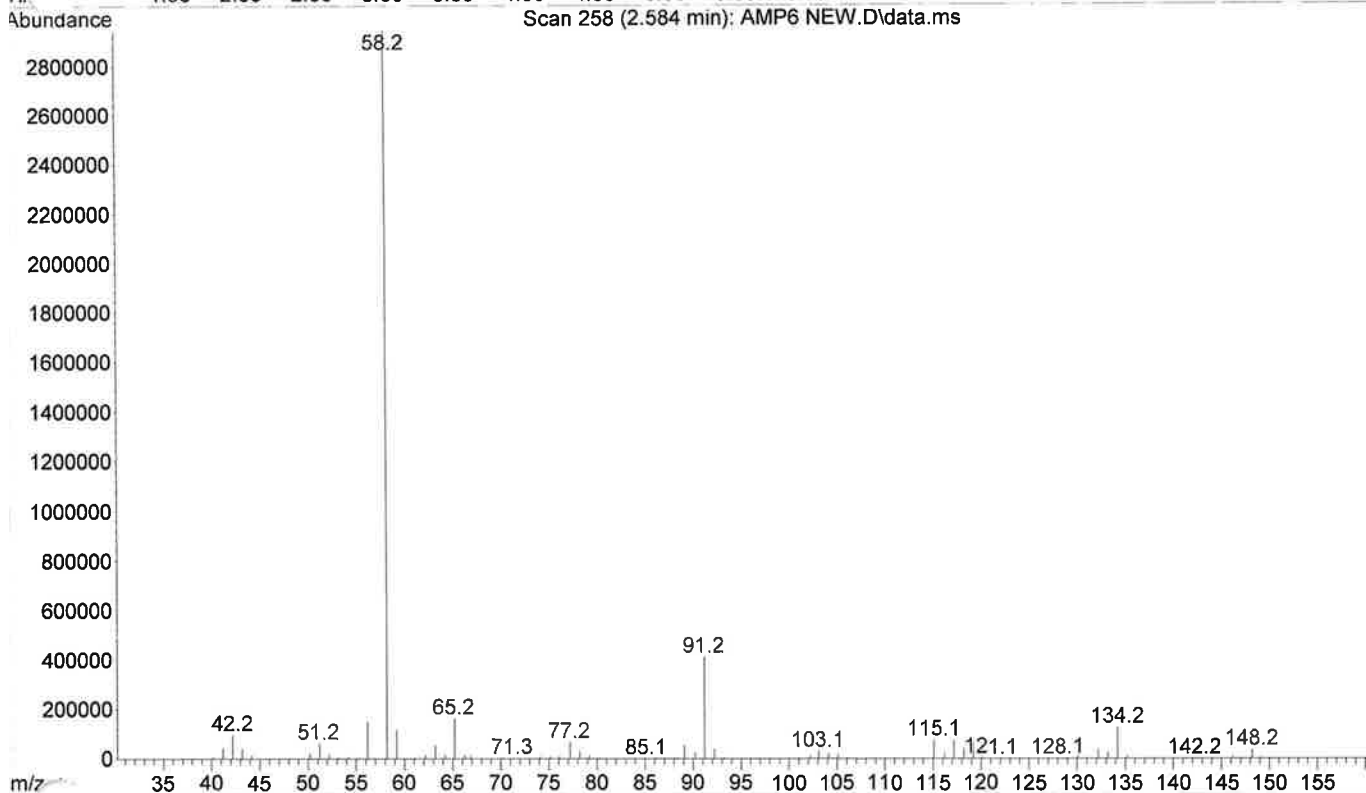
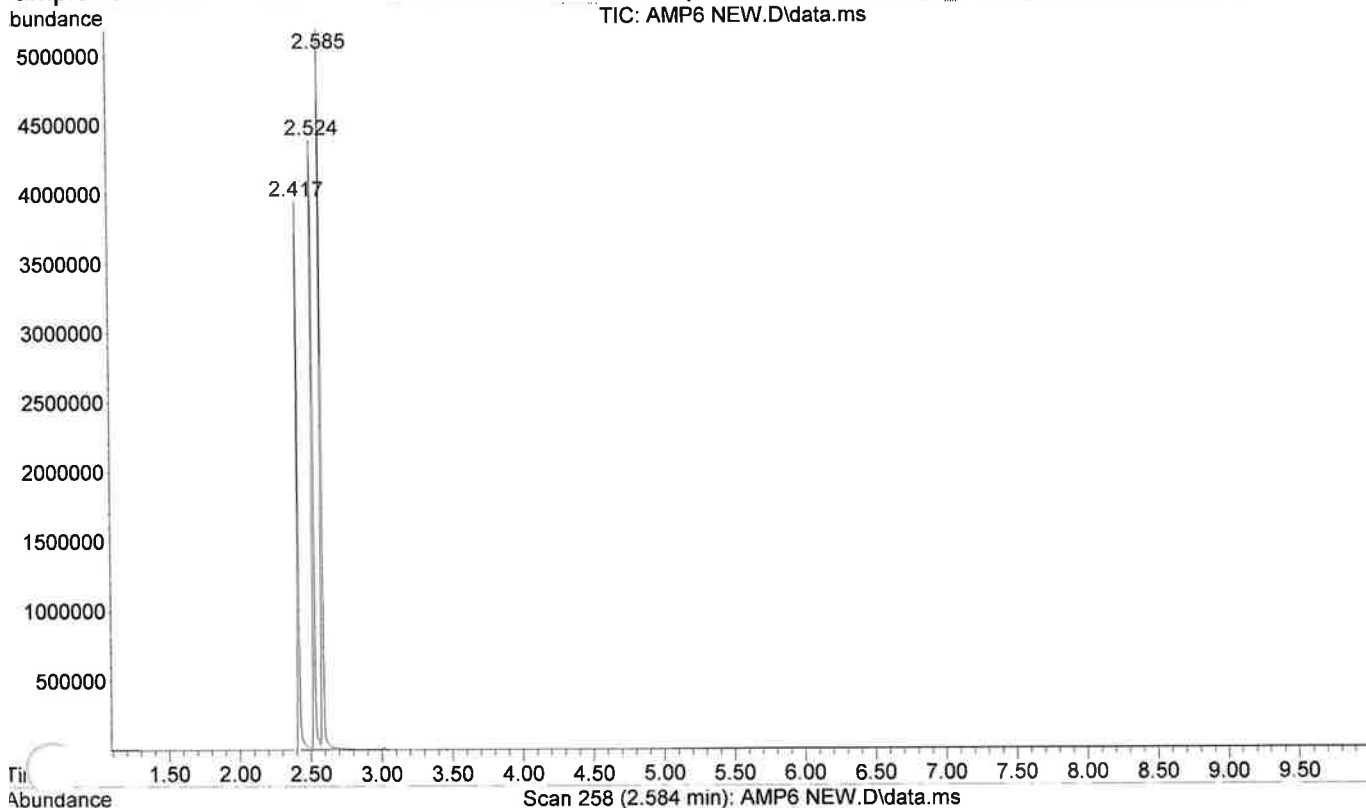
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\16-19-2017\AMP6 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 12:00
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M
Sample: CHCL3

Emc

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP6 NEW.D\data.ms

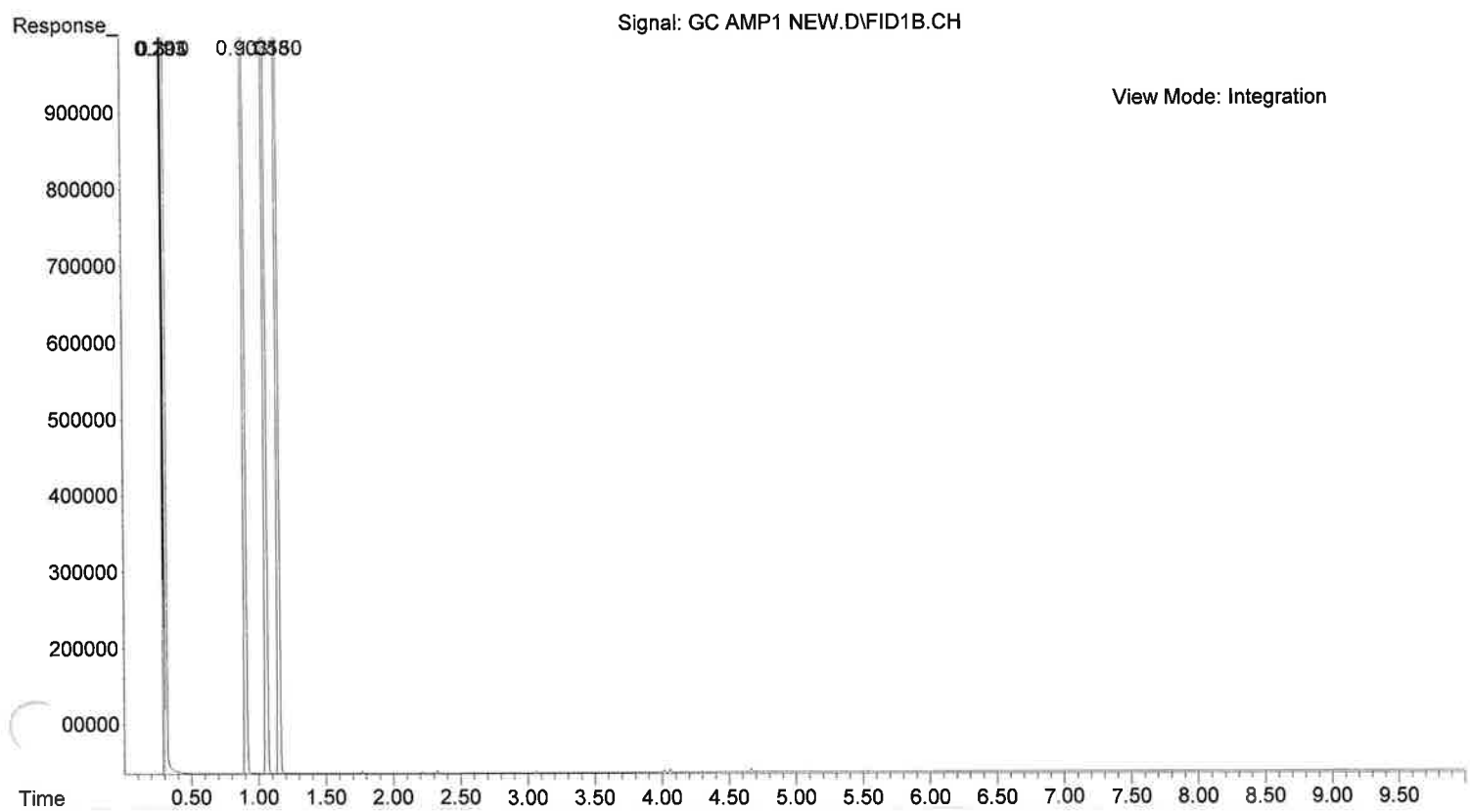


Column: 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP1 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:28:13 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

WKS

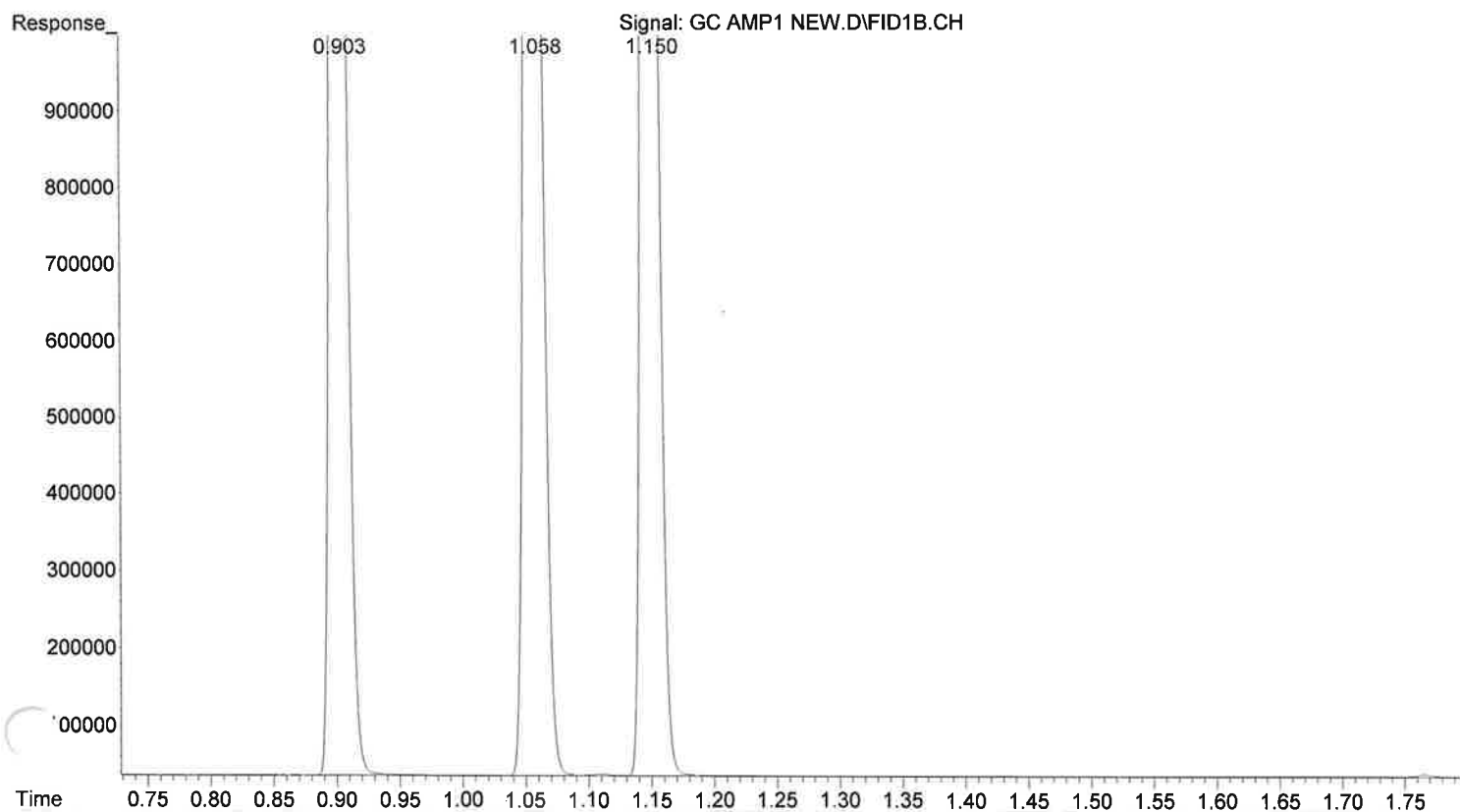
Emc



File :C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP1 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:28:13 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

Emc

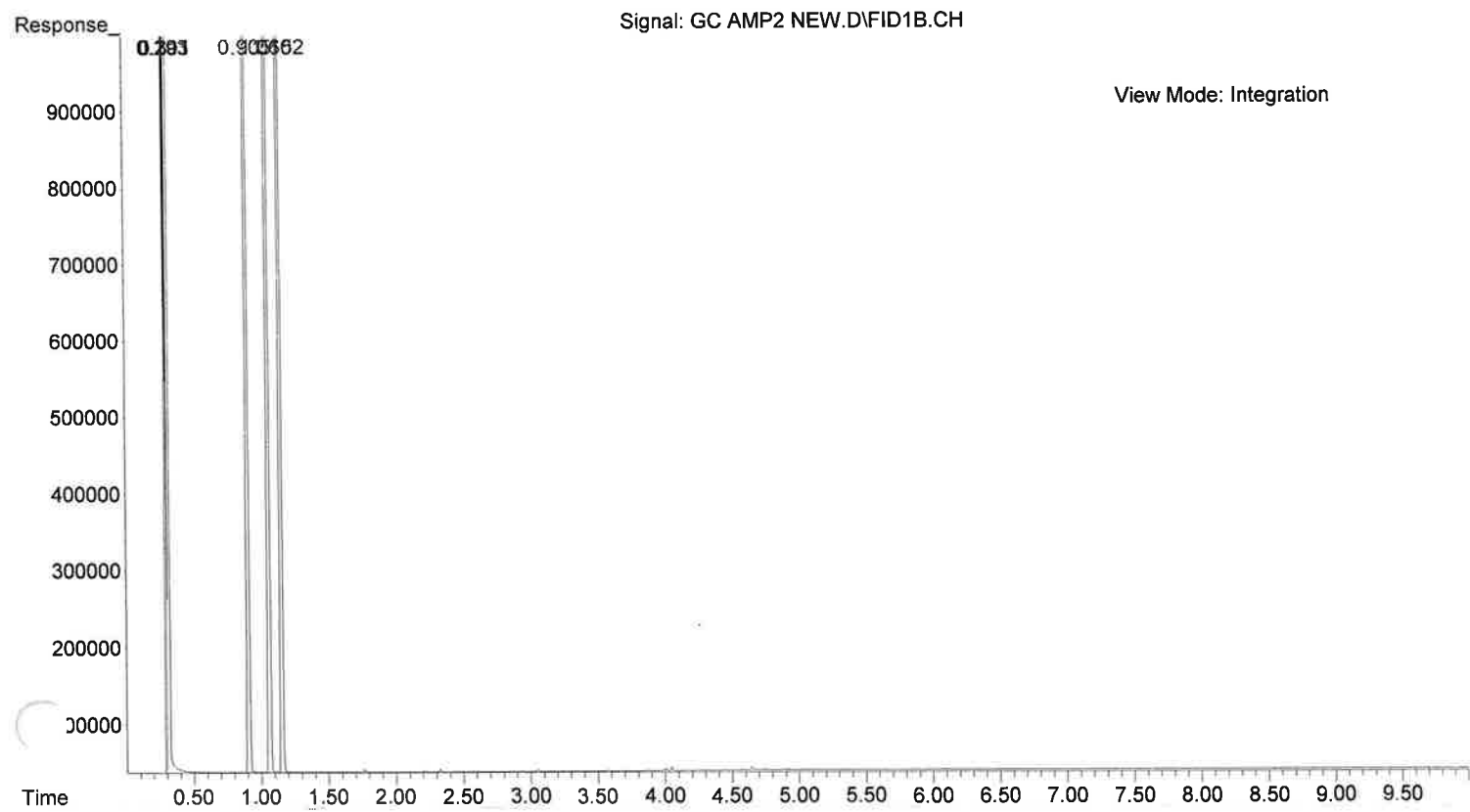
SD



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP2 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:57:26 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

cmc

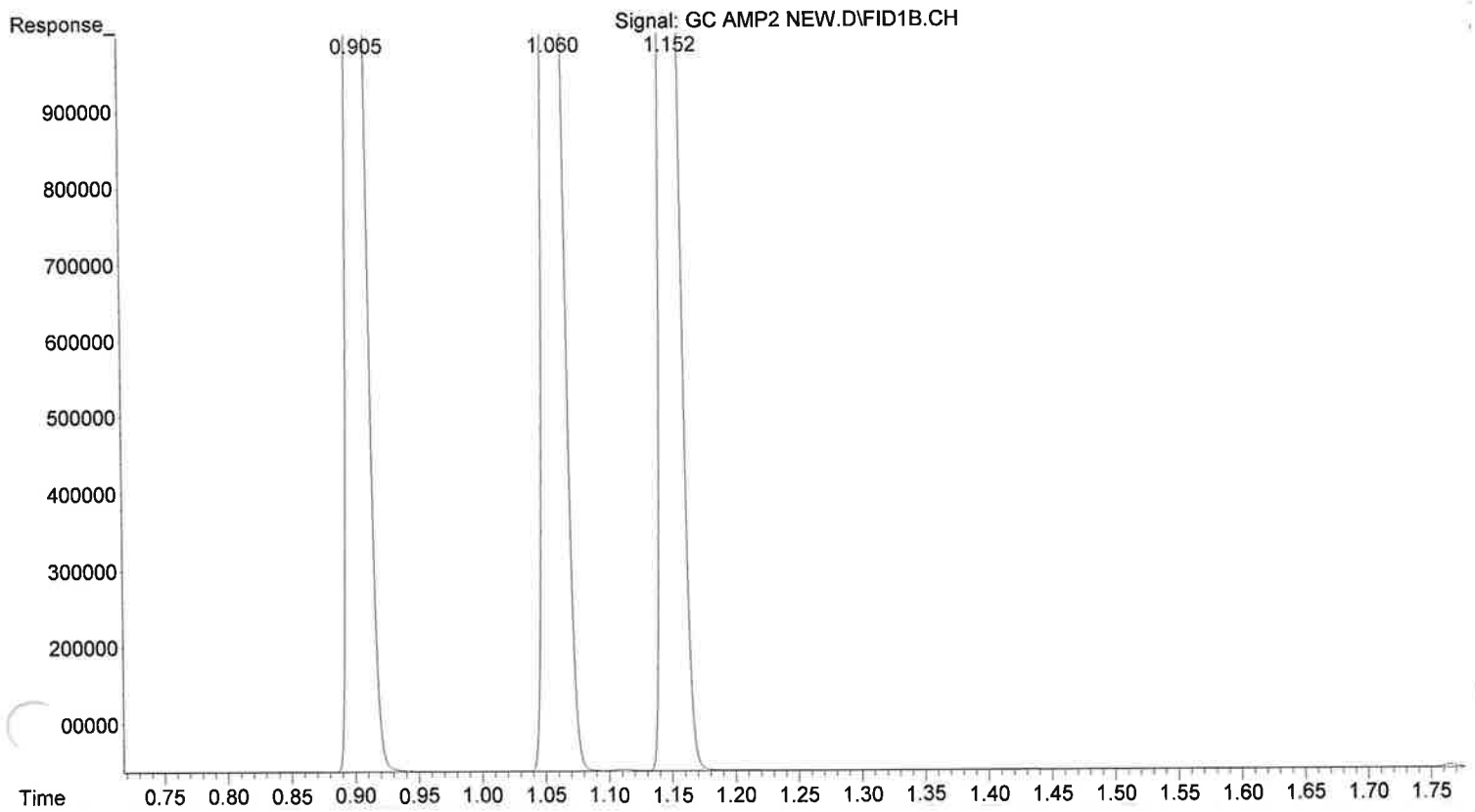
WHS



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP2 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:57:26 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

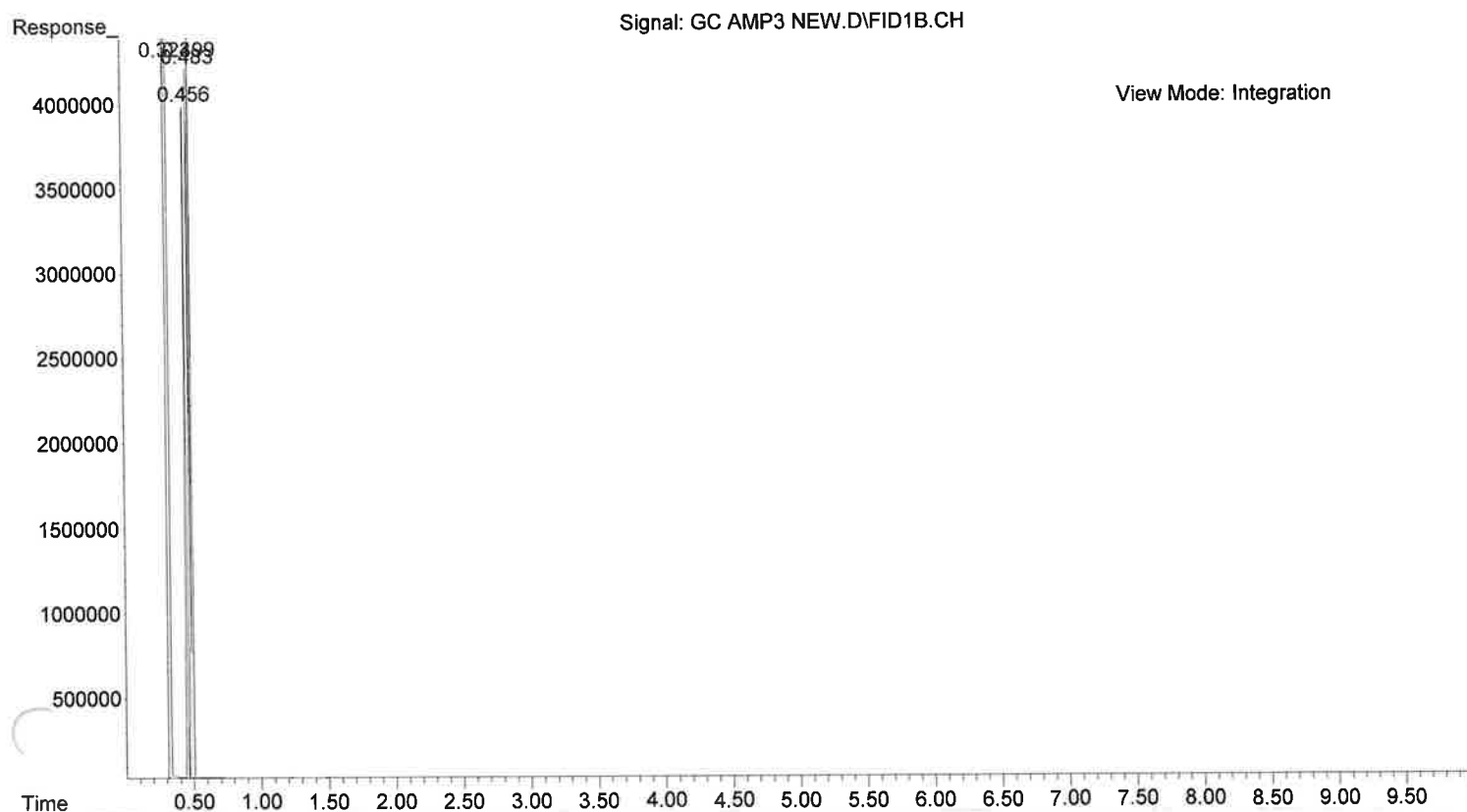
AKS

Emc



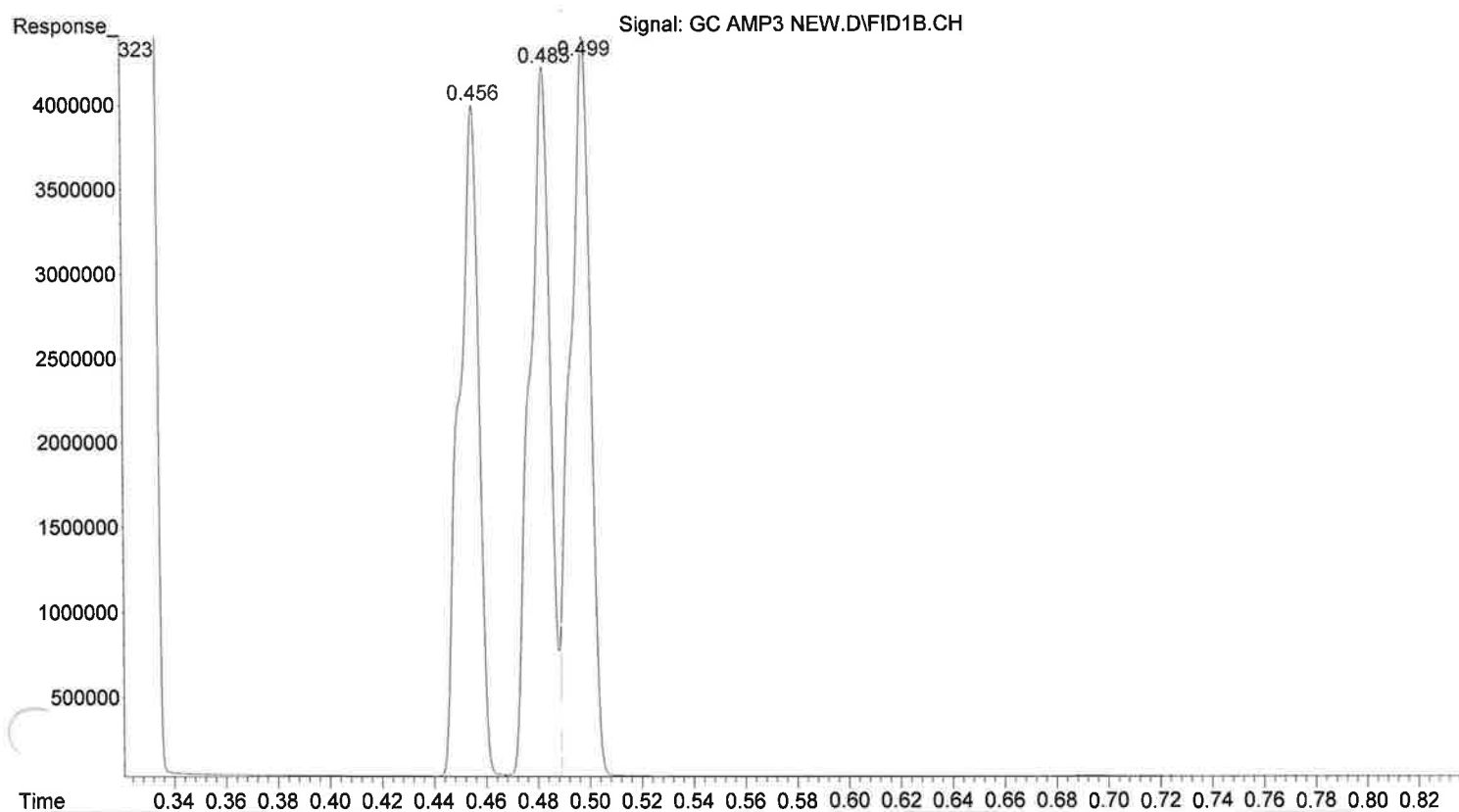
File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP3 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:23:02 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

Emc



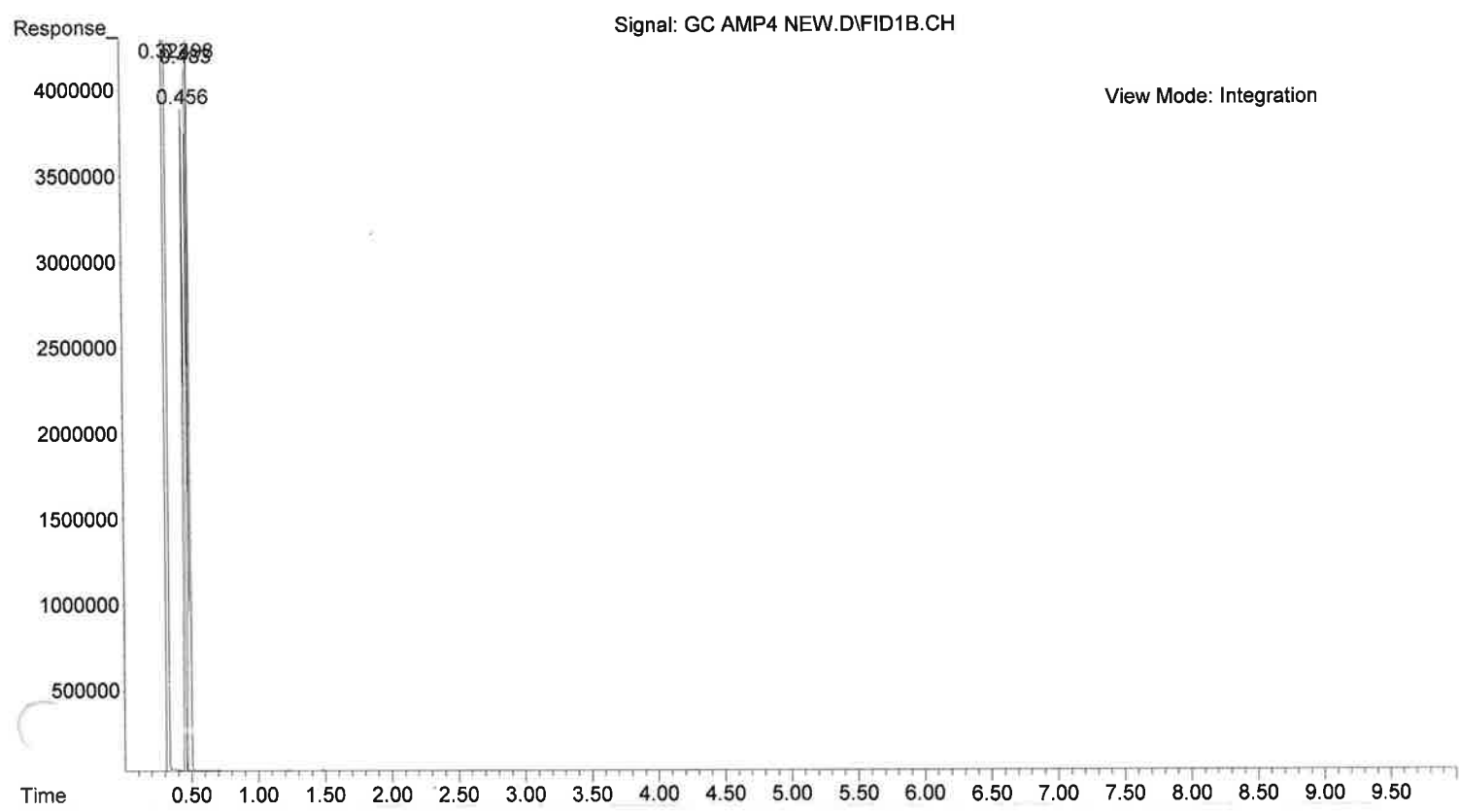
File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP3 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:23:02 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

One



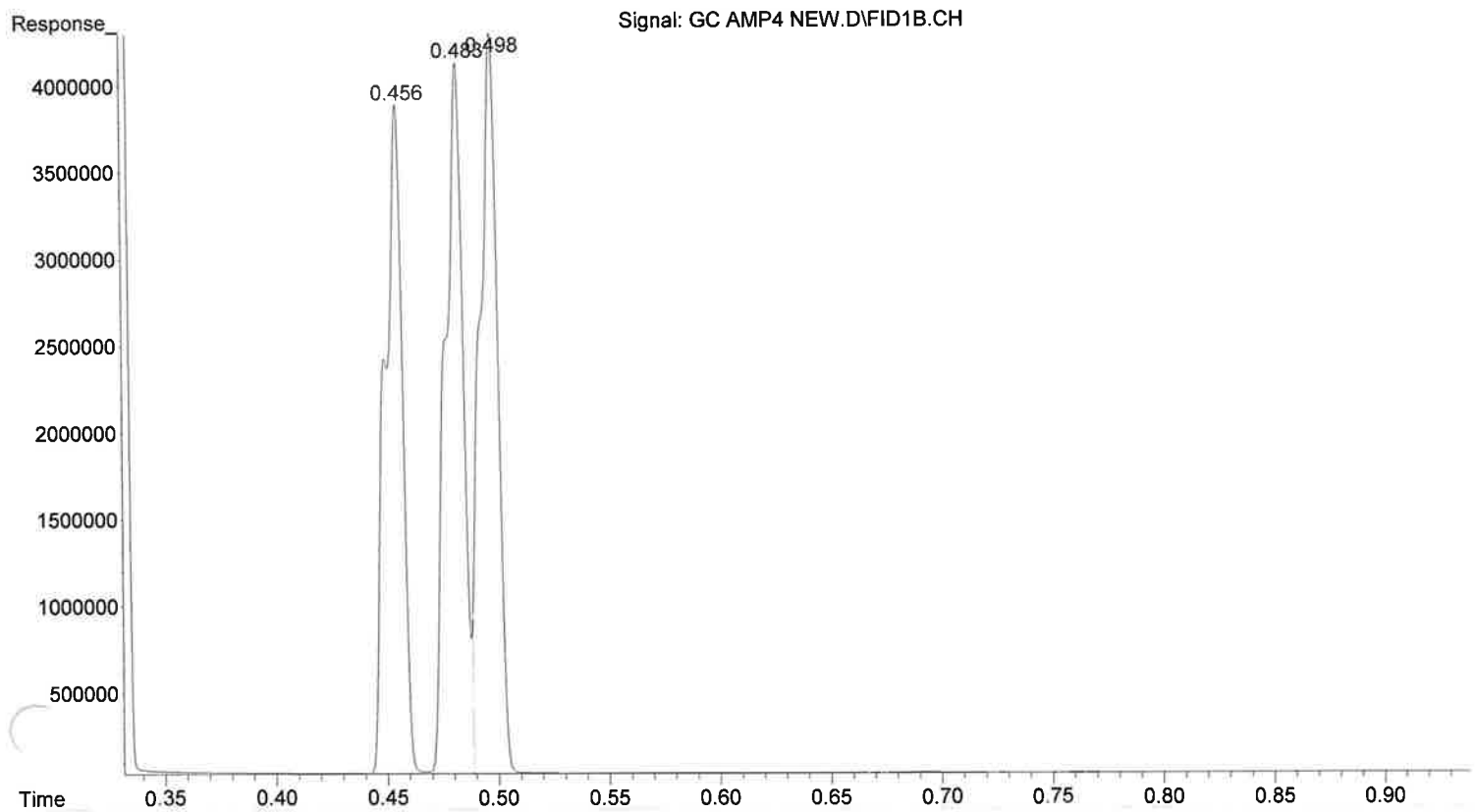
File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP4 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:46:59 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Label Number: 0

Bmc



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP4 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:46:59 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

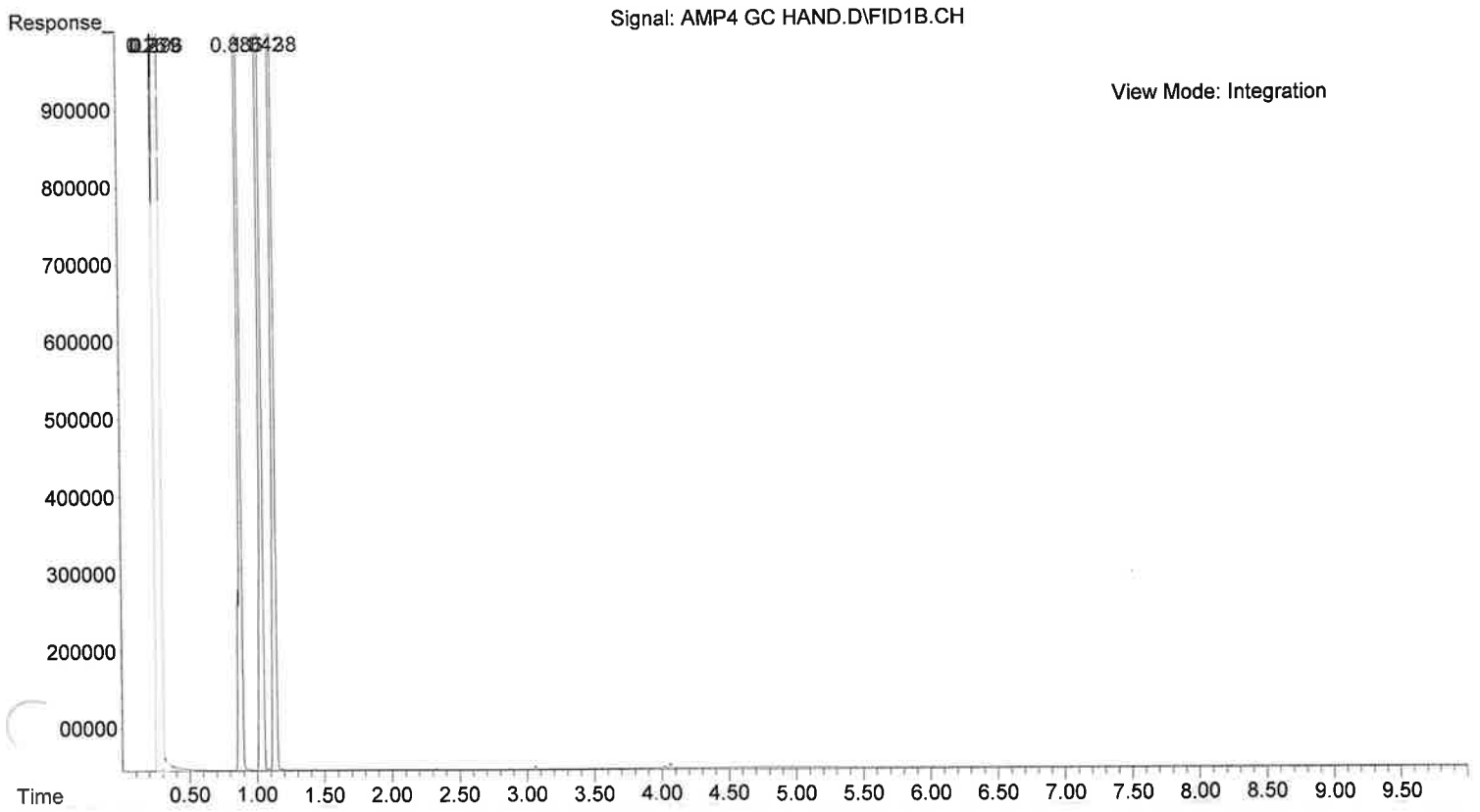
EMC



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP4 GC HAND.D
Operator :
Acquired : 26-Jun-17, 10:48:13 using AcqMethod GC100.M
Instrument : Graceland
Sample Name:
Info :
Sample Number: 1

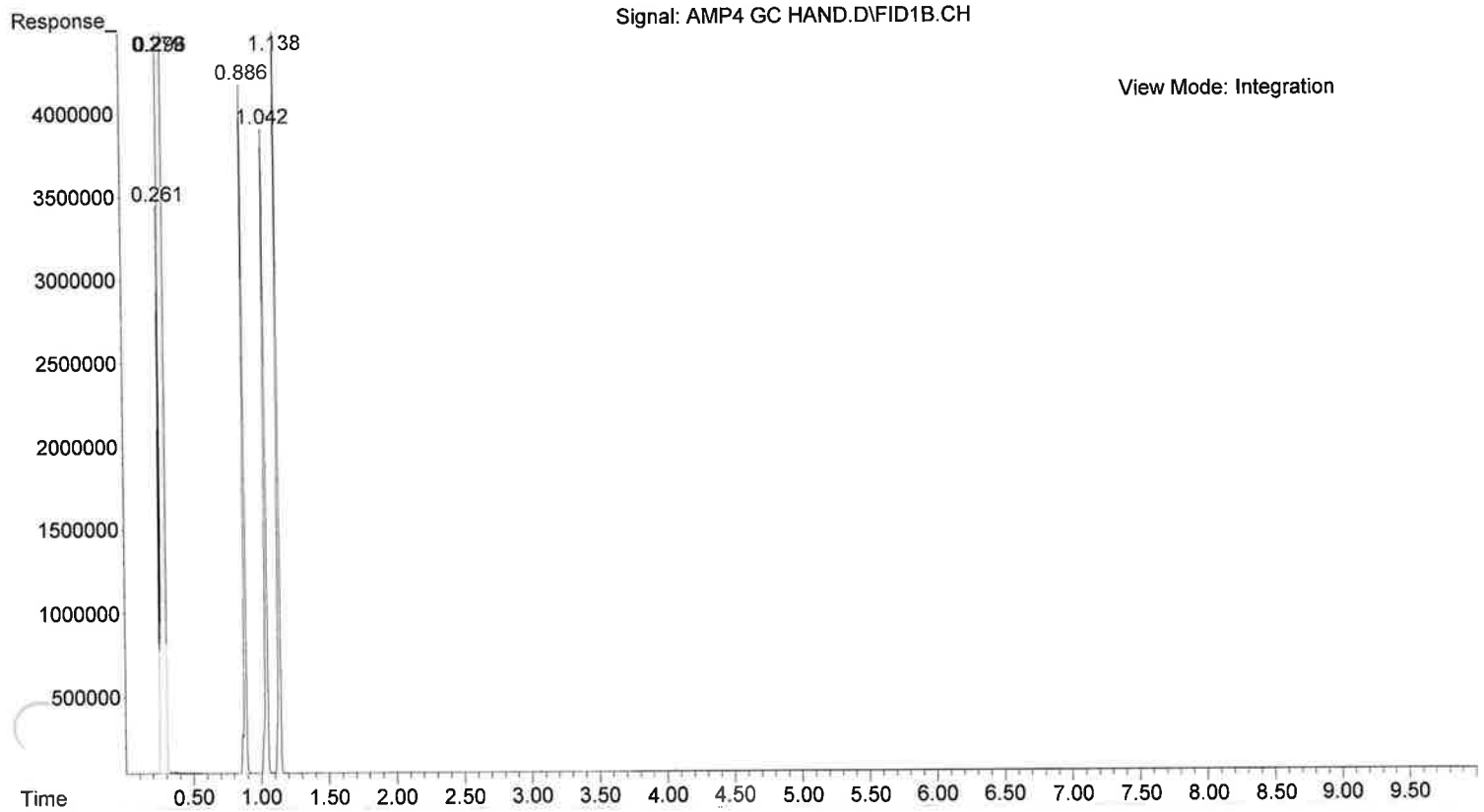
Eme

158



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP4 GC HAND.D
Operator :
Acquired : 26-Jun-17, 10:48:13 using AcqMethod GC100.M
Instrument : Graceland
Sample Name:
Info :
Vial Number: 1

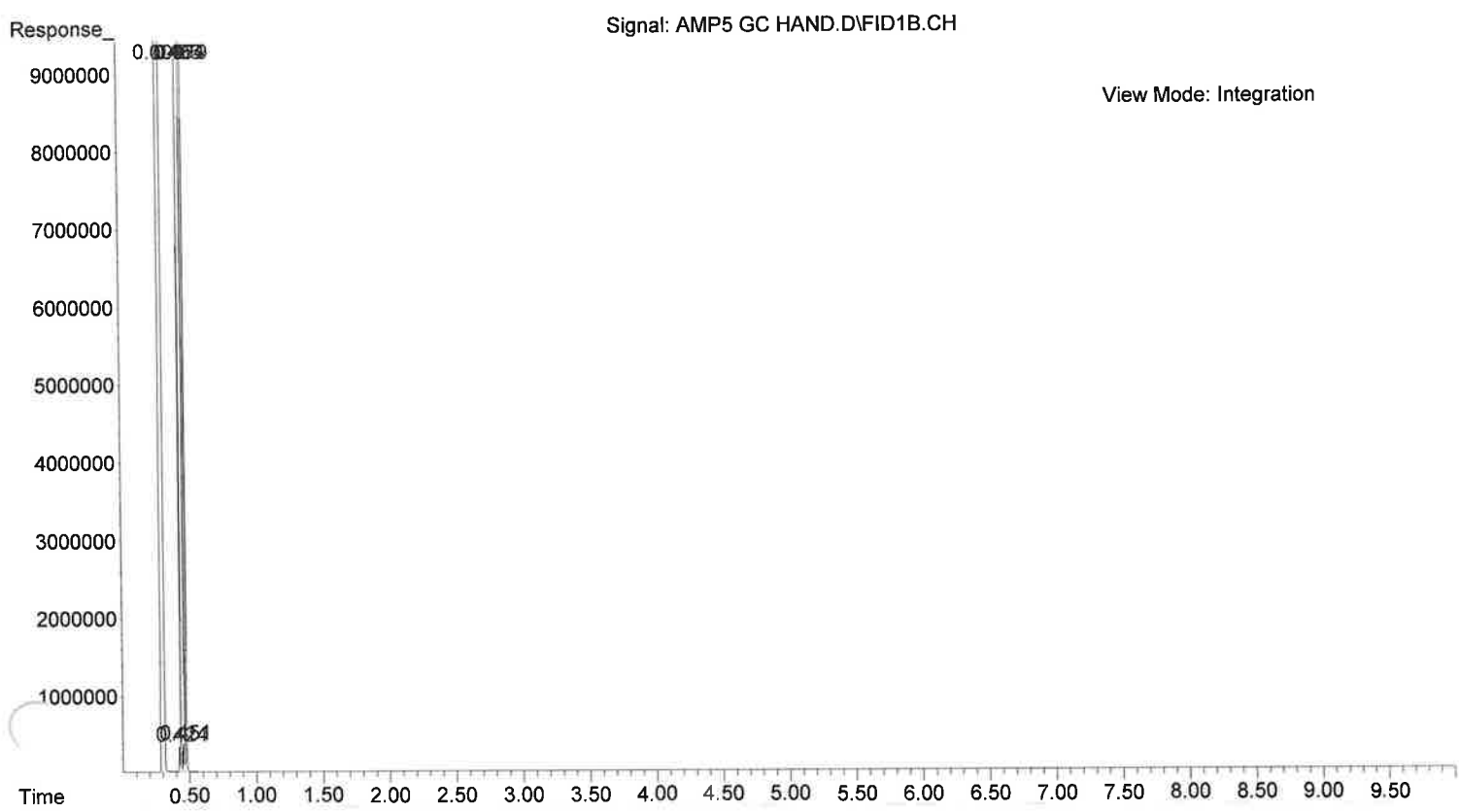
5mc



le :C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP5 GC HAND.D
perator :
quired : 26-Jun-17, 12:22:03 using AcqMethod GC150ISO.M
strument : Graceland
ample Name:
ifo :
ial Number: 1

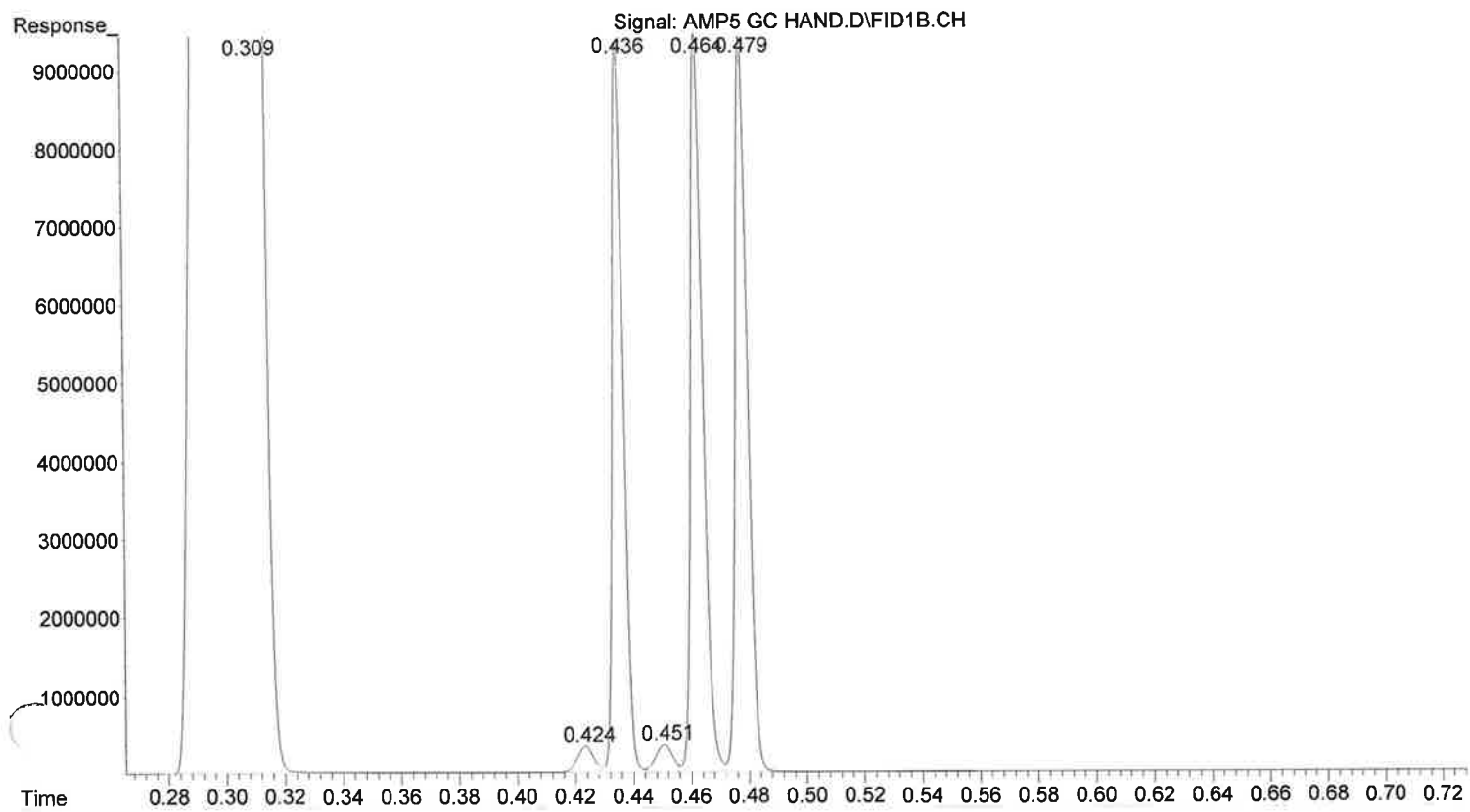
Emc

W8



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP5 GC HAND.D
Operator :
Acquired : 26-Jun-17, 12:22:03 using AcqMethod GC150ISO.M
Instrument : Graceland
Sample Name :
Info :
Vial Number: 1

One



Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)

Mass Spectrometer (Model 5973N Serial Number US03960484)

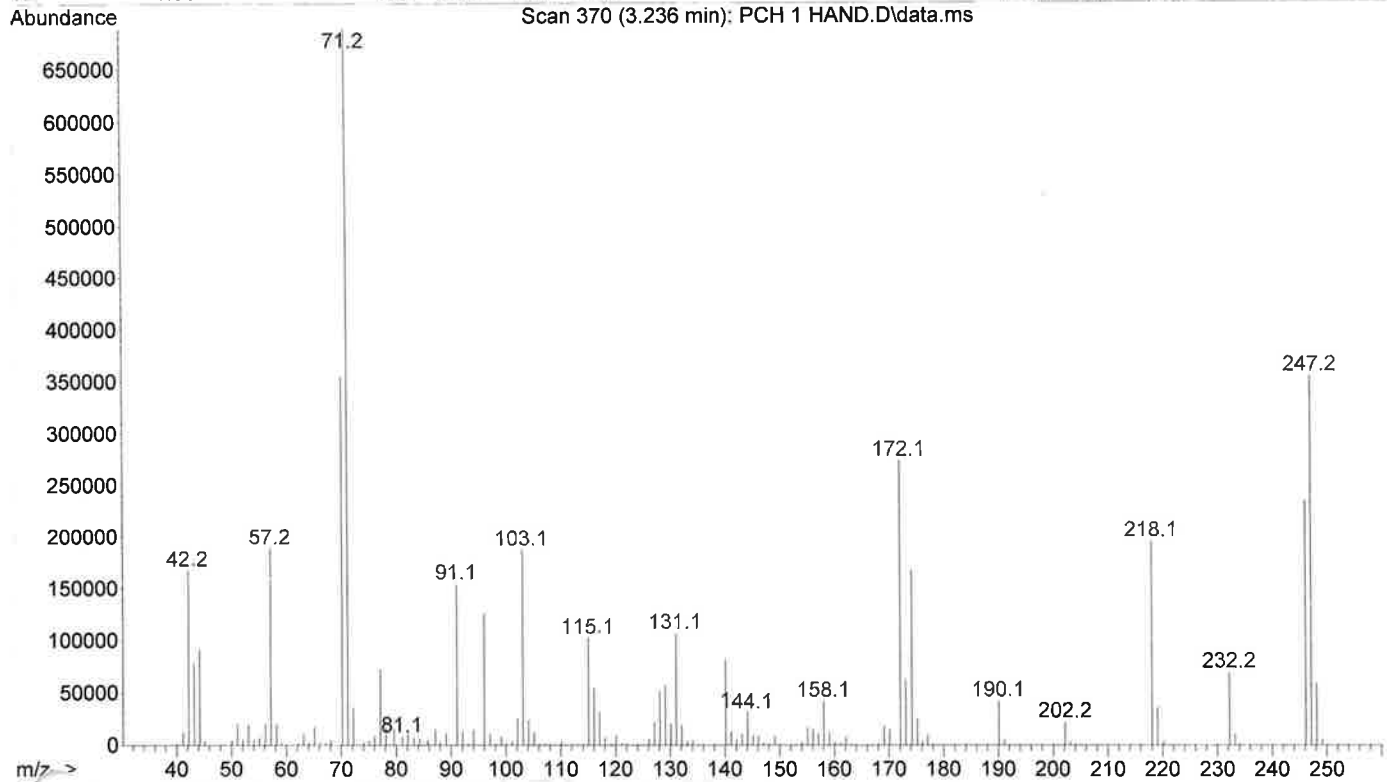
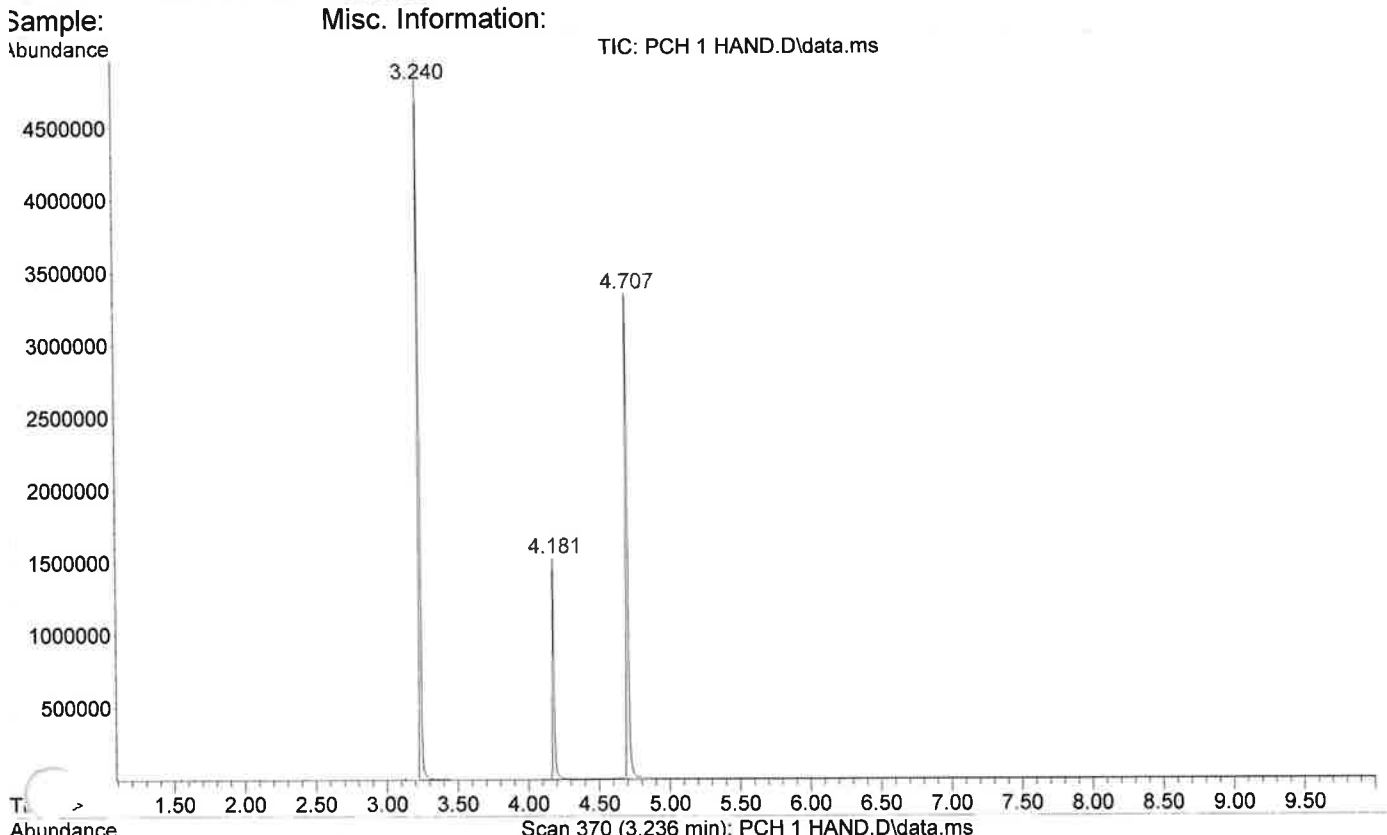
TBI FCU ID – Graceland

- Pethidine, Cocaine, and Hydrocodone Standard RT Comparisons*

Method	Compound	RT	Acceptable variance (±2%)	Repeat RT
ASMSDRUGS100	Pethidine	3.284	±0.066	3.280
	Cocaine	4.258	±0.085	4.249
	Hydrocodone	4.795	±0.096	4.787
ASMSDRUGS200	Pethidine	1.390	±0.028	1.391
	Cocaine	2.304	±0.046	2.300
	Hydrocodone	2.812	±0.056	2.806
ASMS100TR	Pethidine	3.279	±0.066	3.290
	Cocaine	4.249	±0.085	4.269
	Hydrocodone	4.783	±0.096	4.809
ASMS200TR	Pethidine	1.392	±0.028	1.392
	Cocaine	2.305	±0.046	2.302
	Hydrocodone	2.813	±0.056	2.810
ASMSDRUGS60	Pethidine	3.989	±0.080	4.012
	Cocaine	5.011	±0.100	5.048
	Hydrocodone	5.569	±0.111	5.610
ASGC100	Pethidine	2.696	±0.054	2.690
	Cocaine	3.640	±0.073	3.625
	Hydrocodone	4.122	±0.082	4.104
ASGC200	Pethidine	0.799	±0.016	0.798
	Cocaine	1.704	±0.034	1.703
	Hydrocodone	2.155	±0.043	2.152

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 1 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:09
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

one

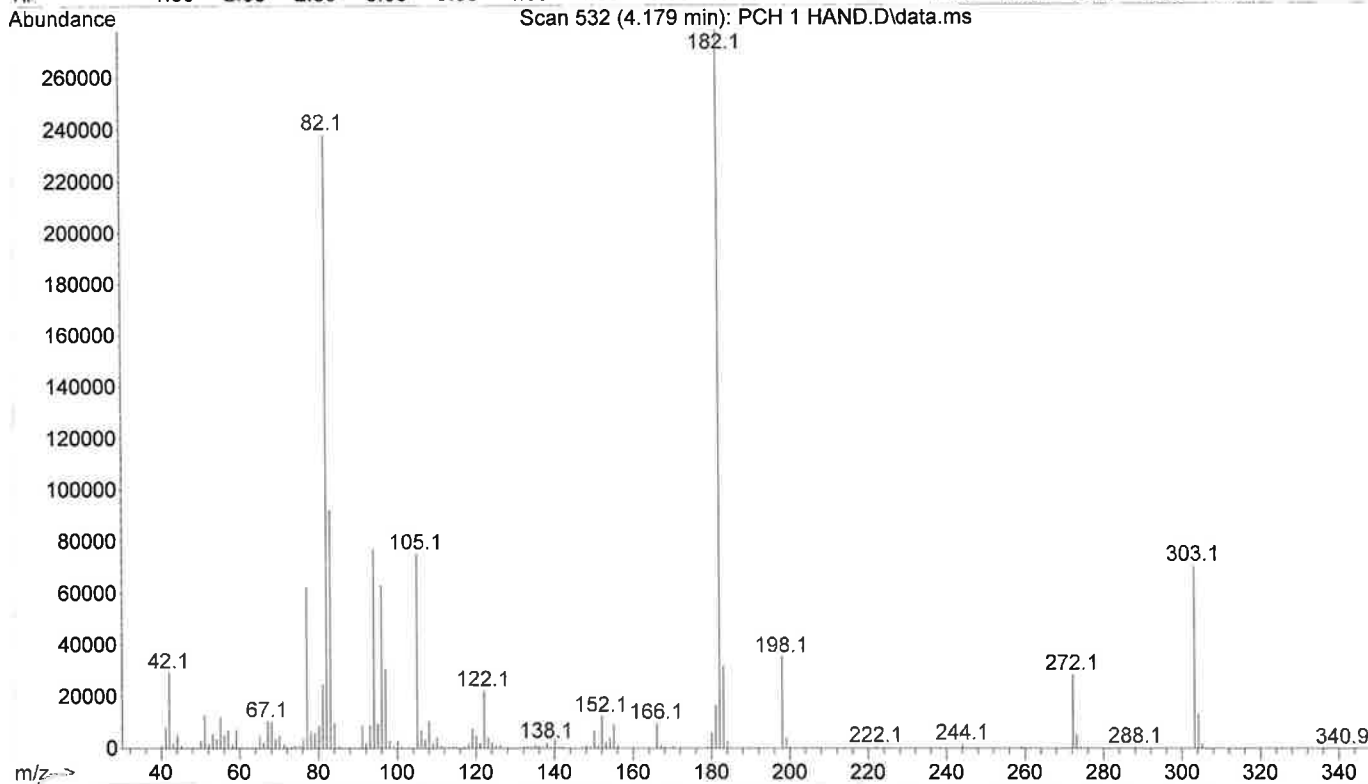
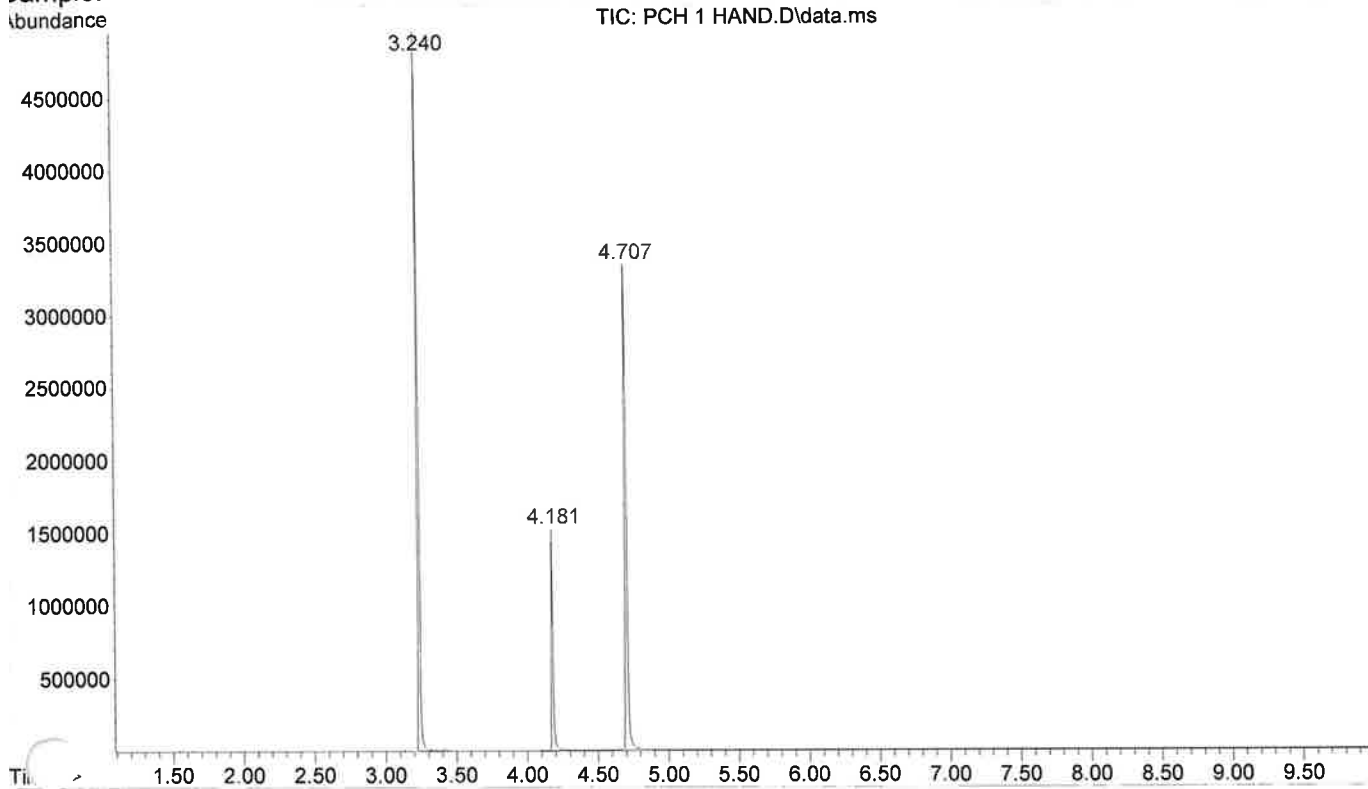


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 1 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:09
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

One

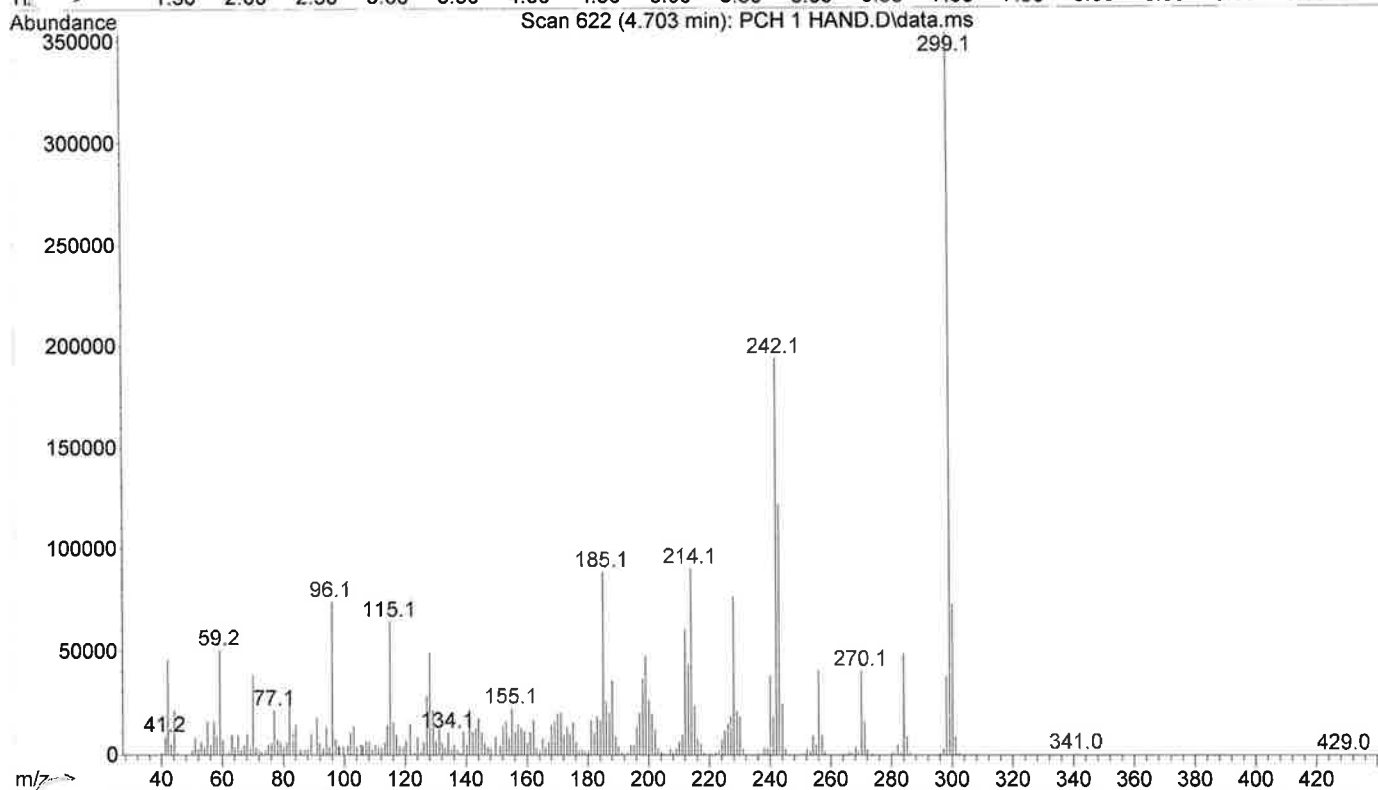
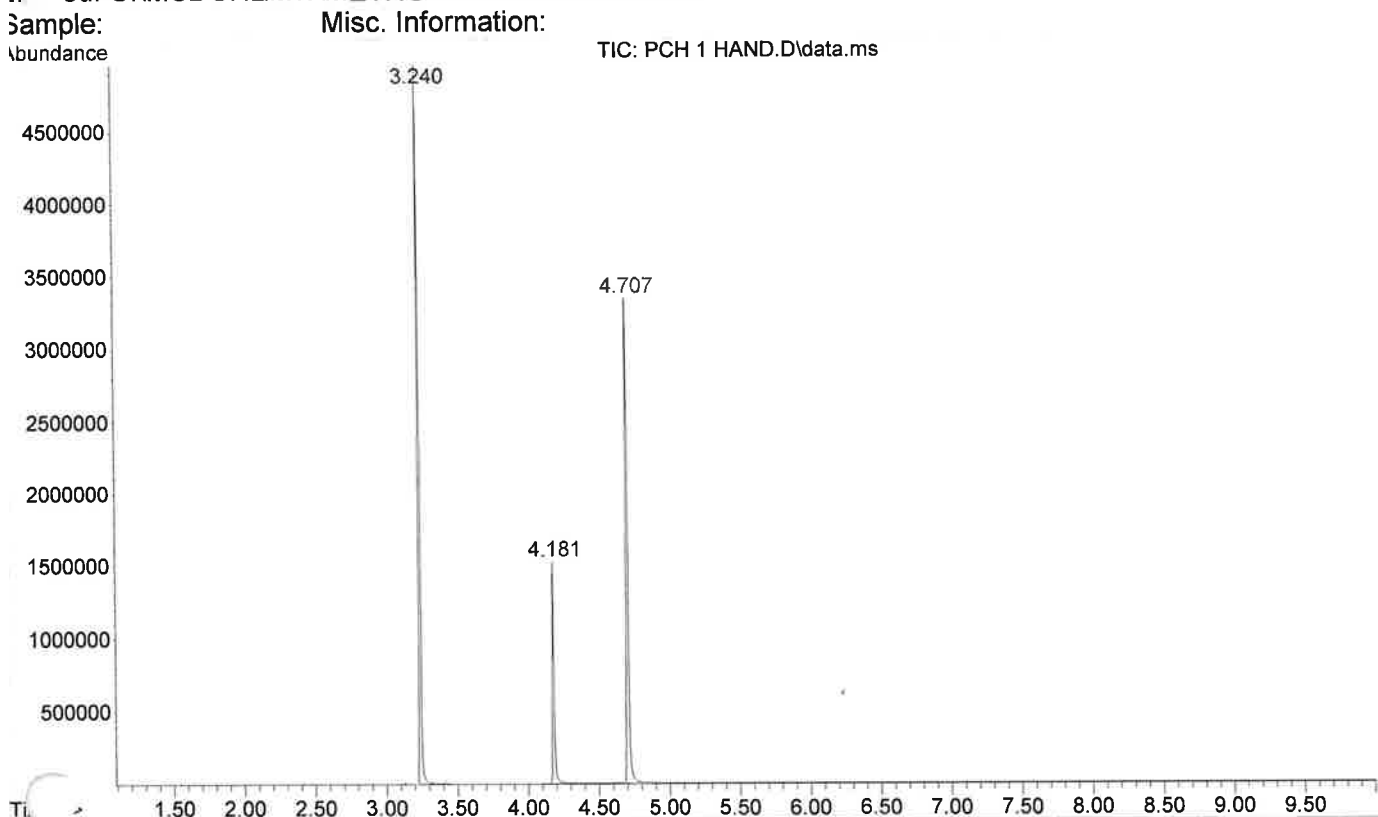
Sample: Misc. Information:



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 1 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:09
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

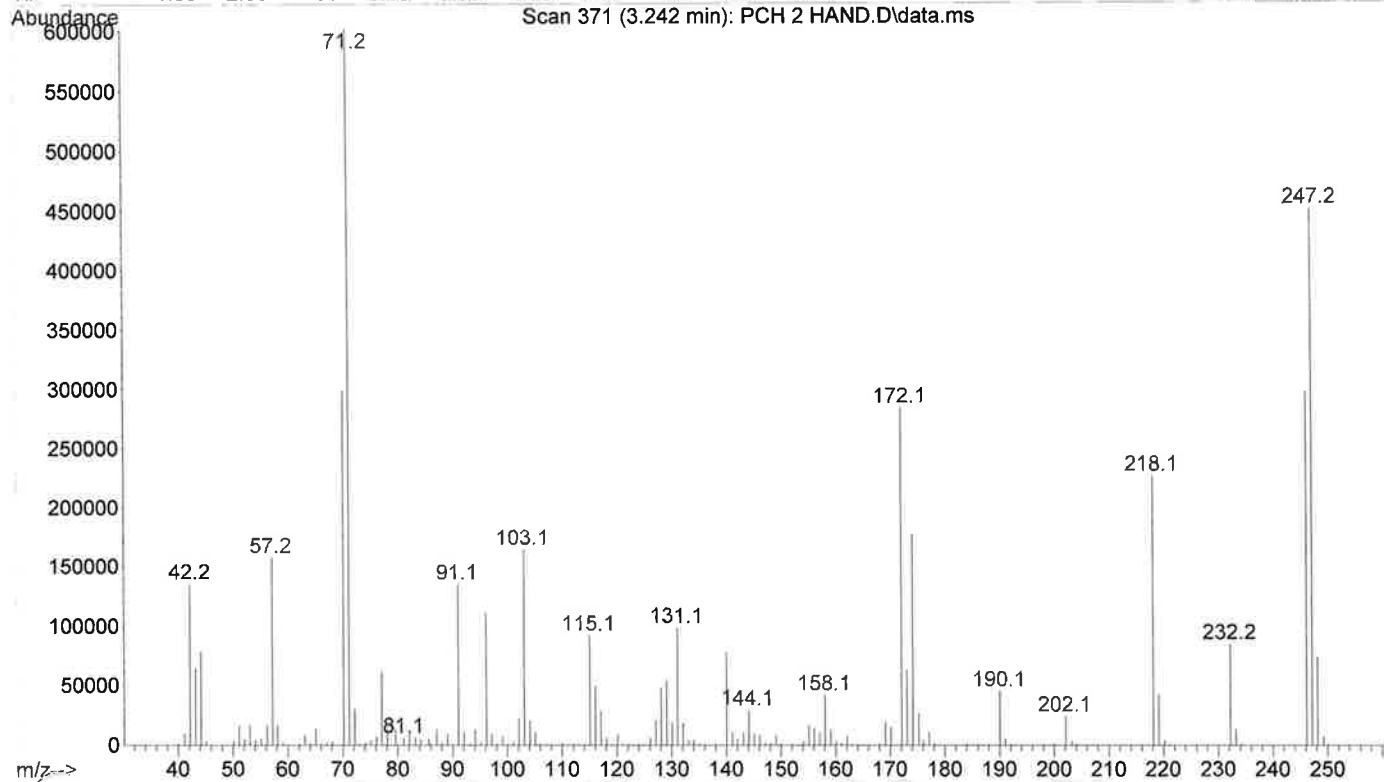
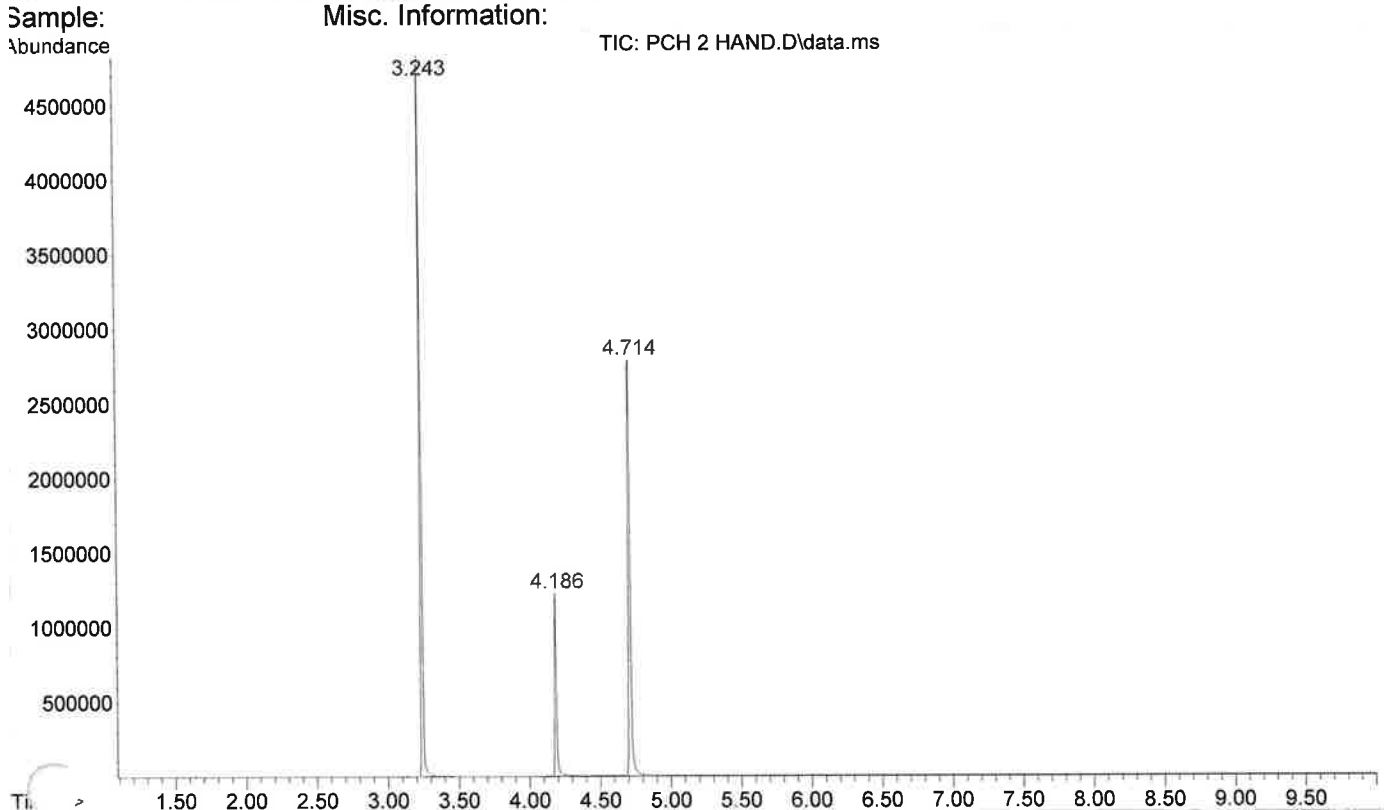
6me



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PC2 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:35
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

me

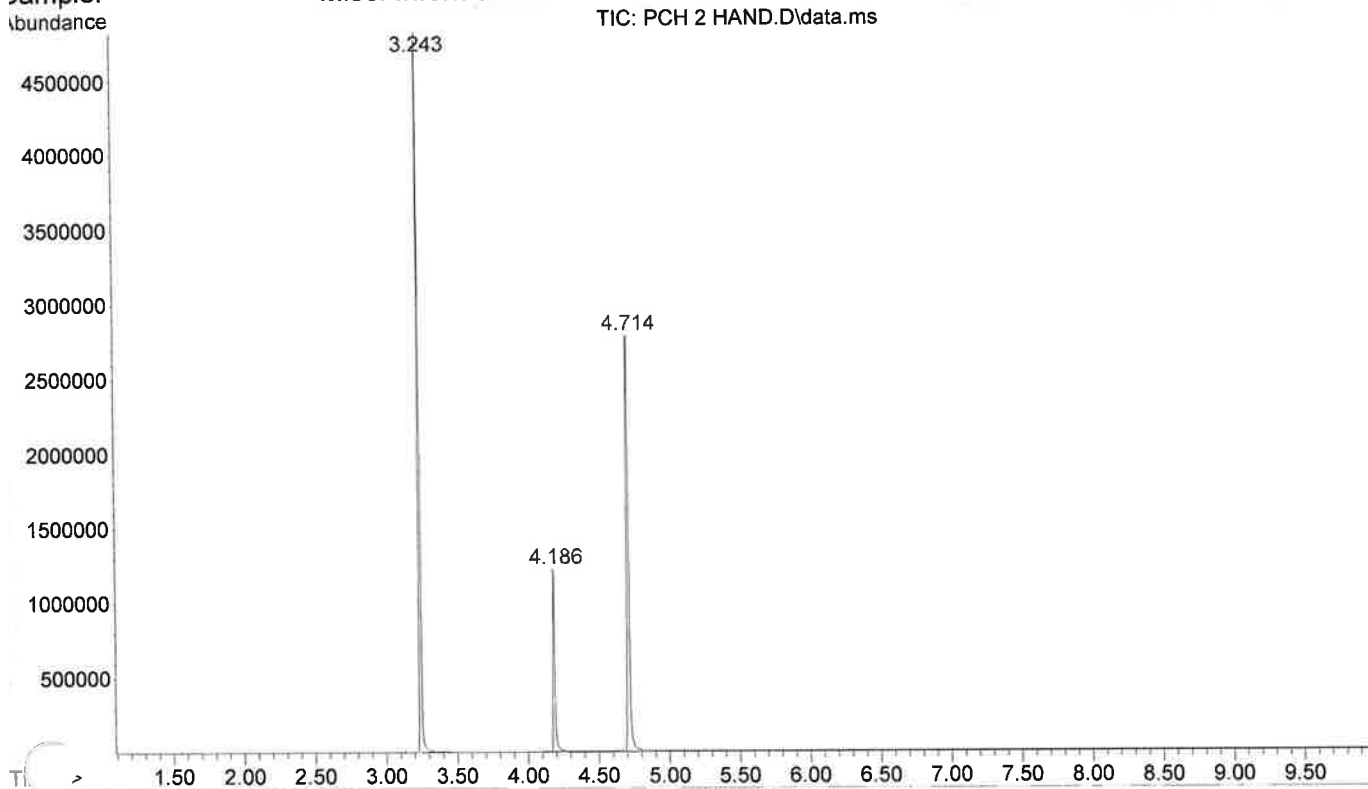


Conditions: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 2 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:35
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

EMC

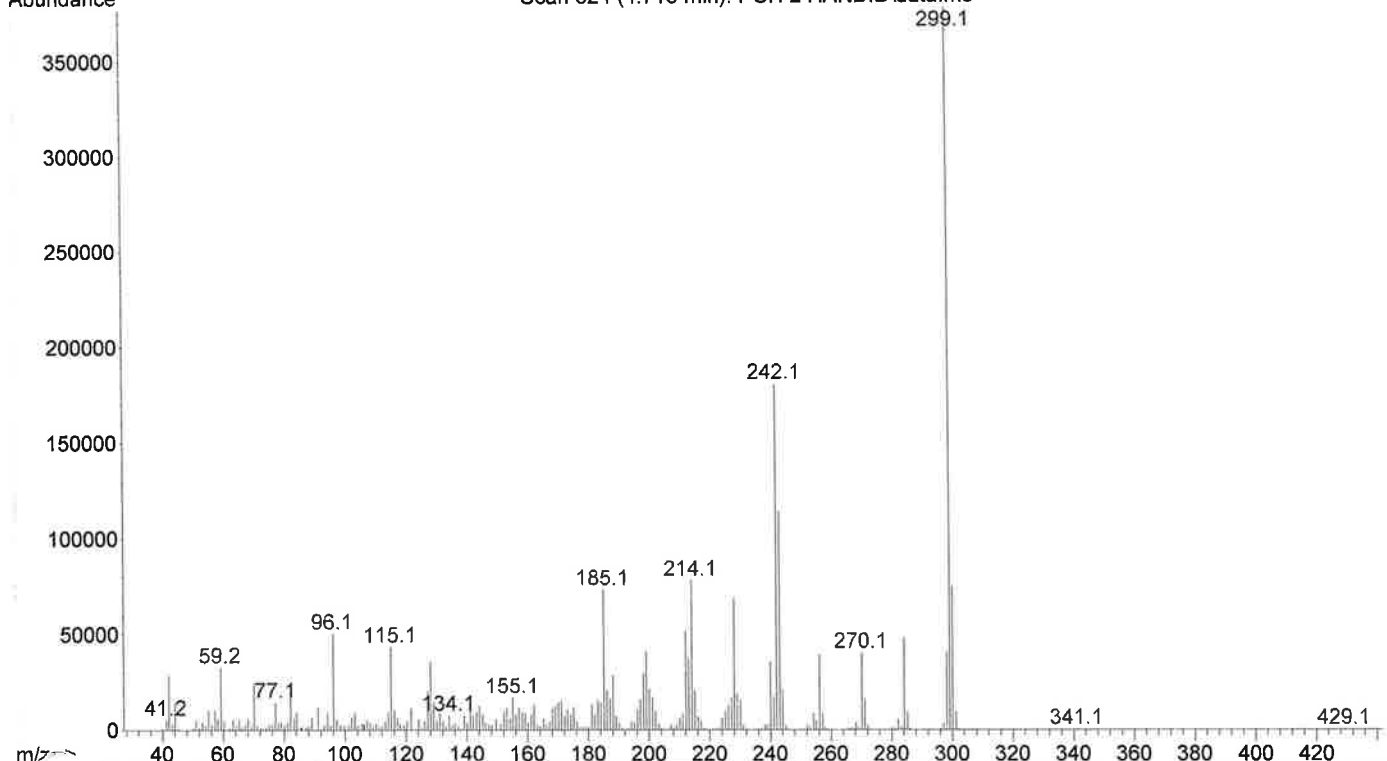
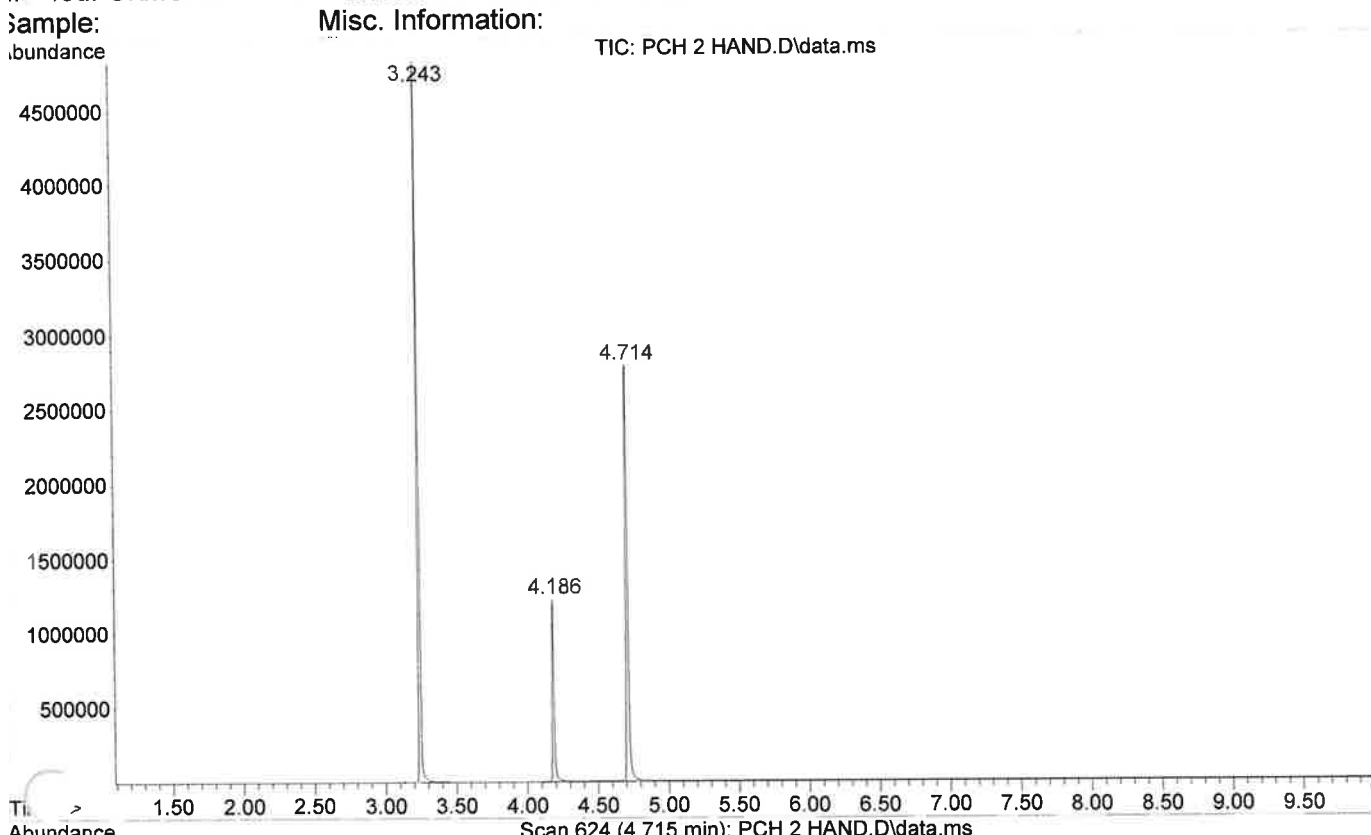
Sample: Misc. Information:



Concentration: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 2 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:35
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

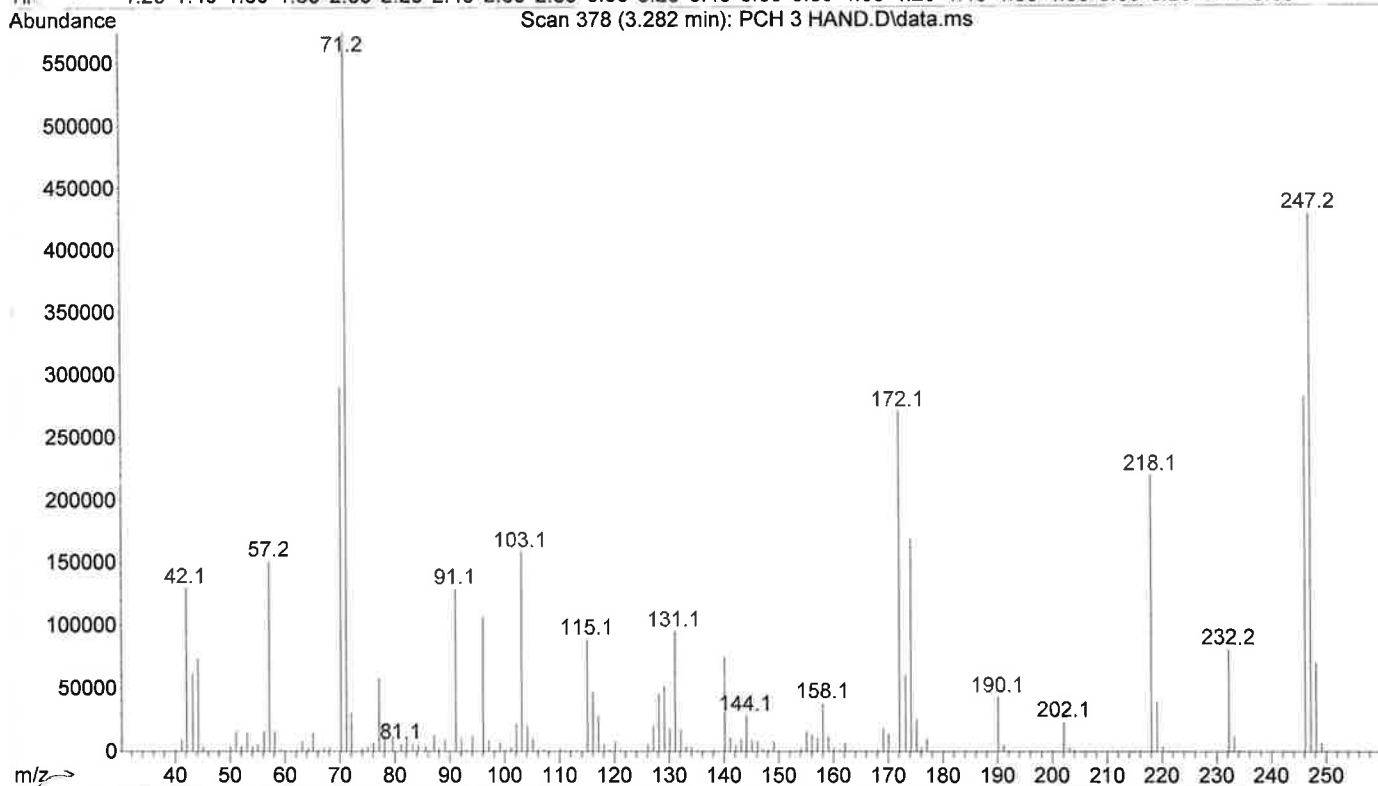
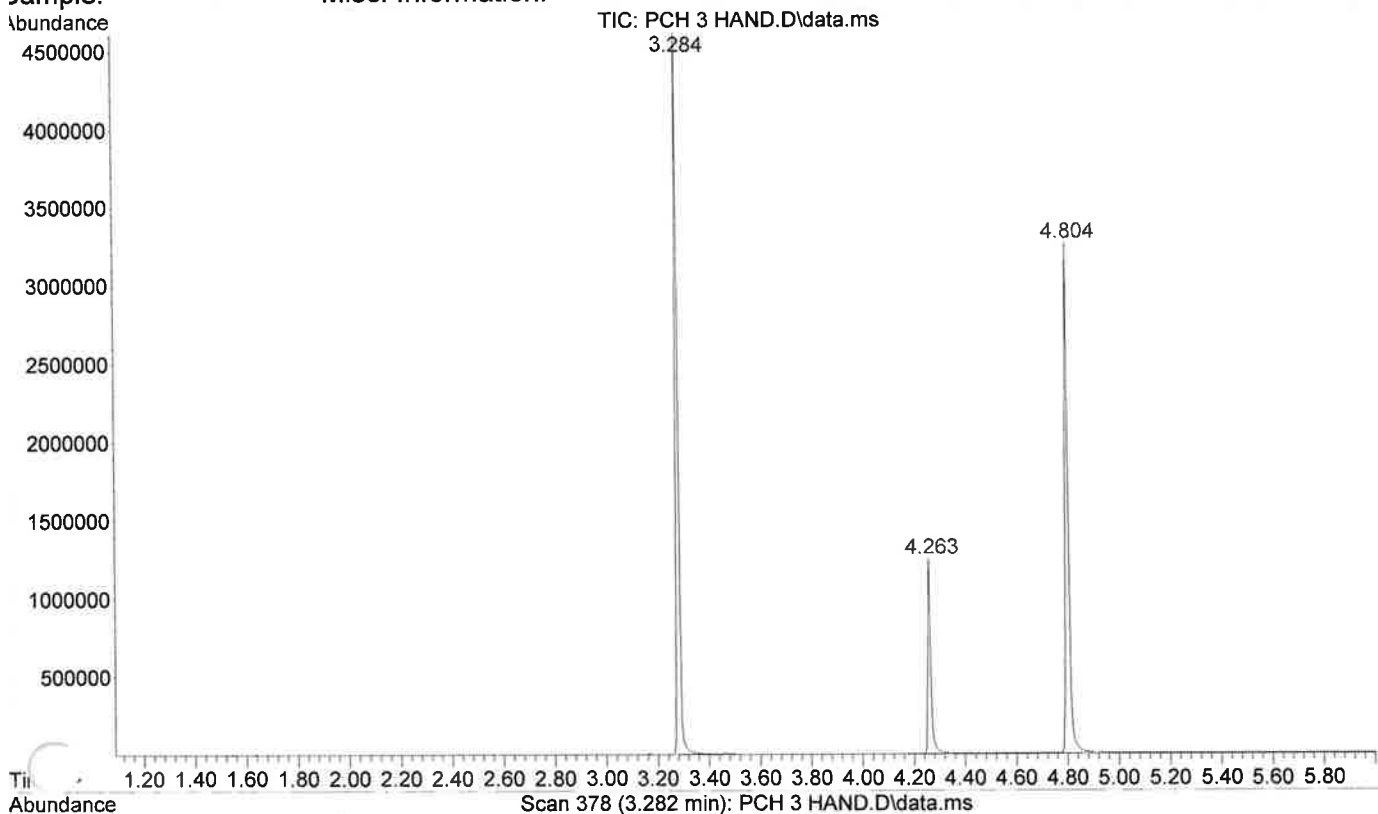
Emc



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 3 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:11
Method: C:\MSDCHEM\1\METHODS\MS100TR.M
Sample: Misc. Information:

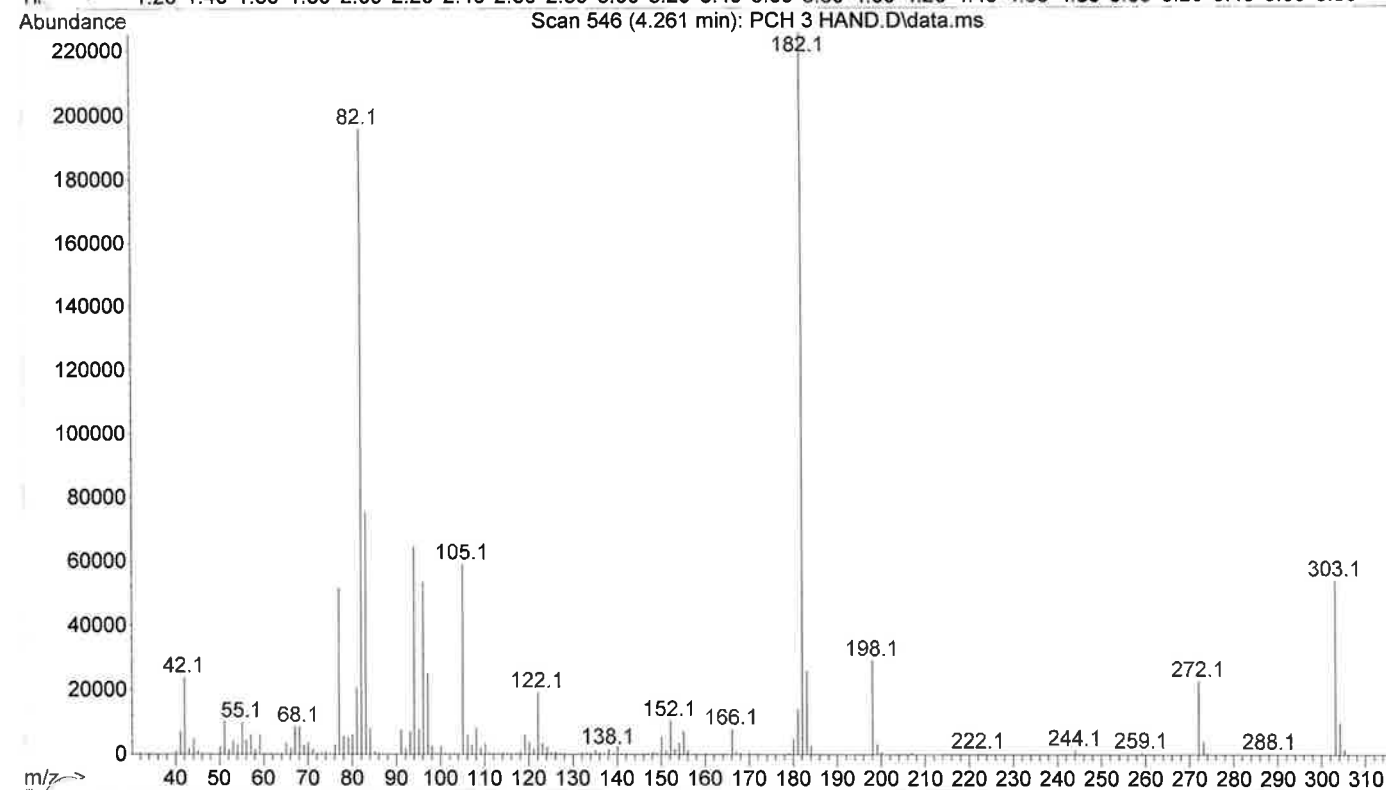
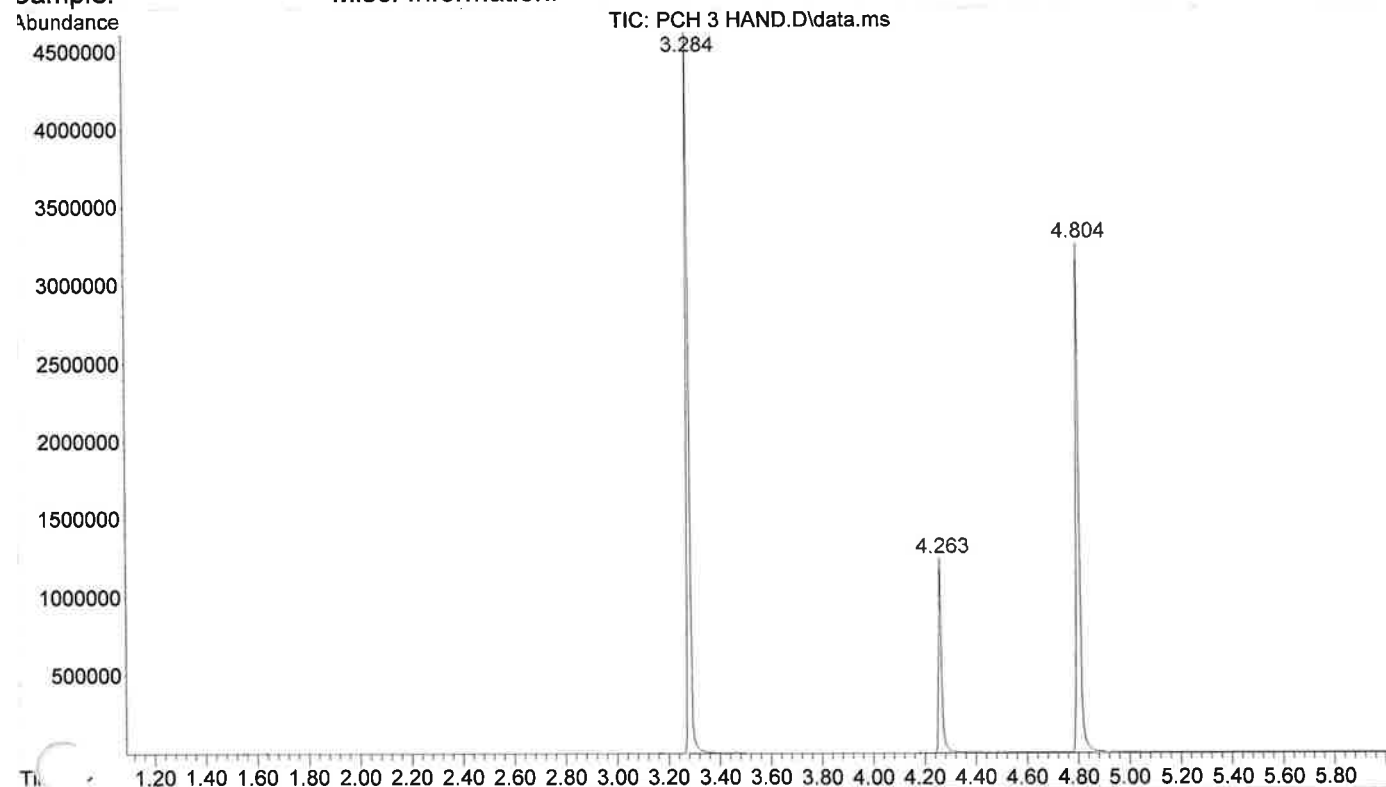
bme



Conditions: 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 3 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:11
Vial: 3
Path: C:\MSDCHEM\1\METHODS\MS100TR.M
Sample: Misc. Information:

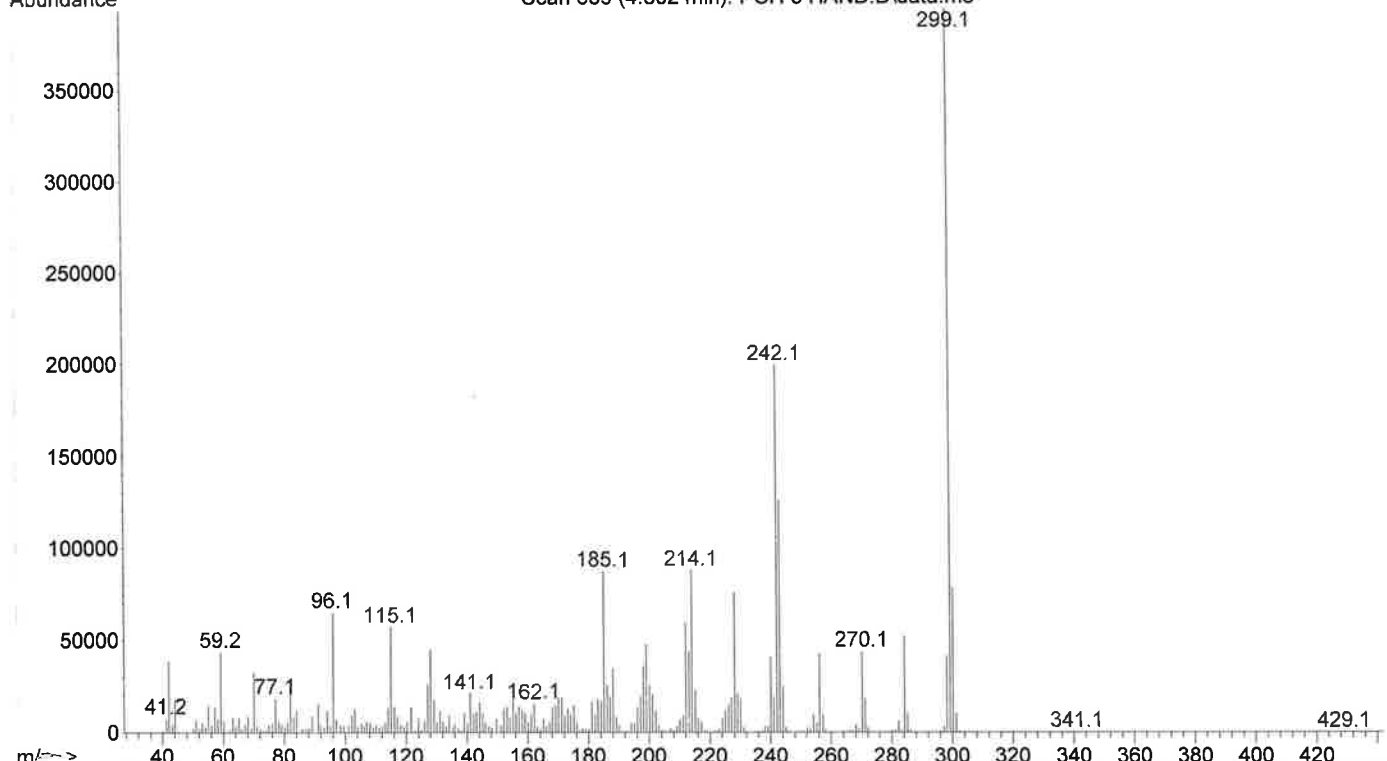
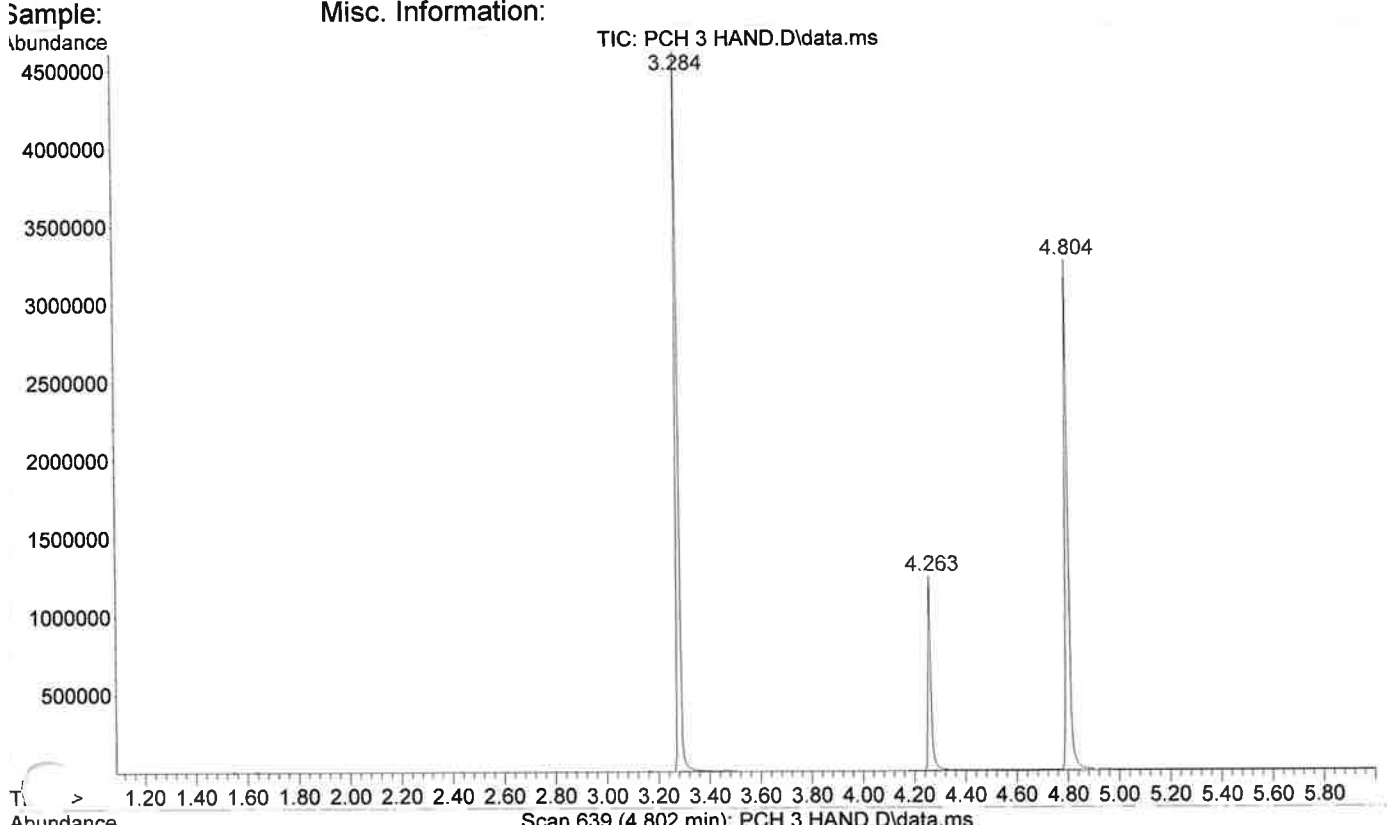
Eme



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 3 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:11
Method: C:\MSDCHEM\1\METHODS\MS100TR.M

Emc



Column: 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

me

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 4 HAND.D

Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu

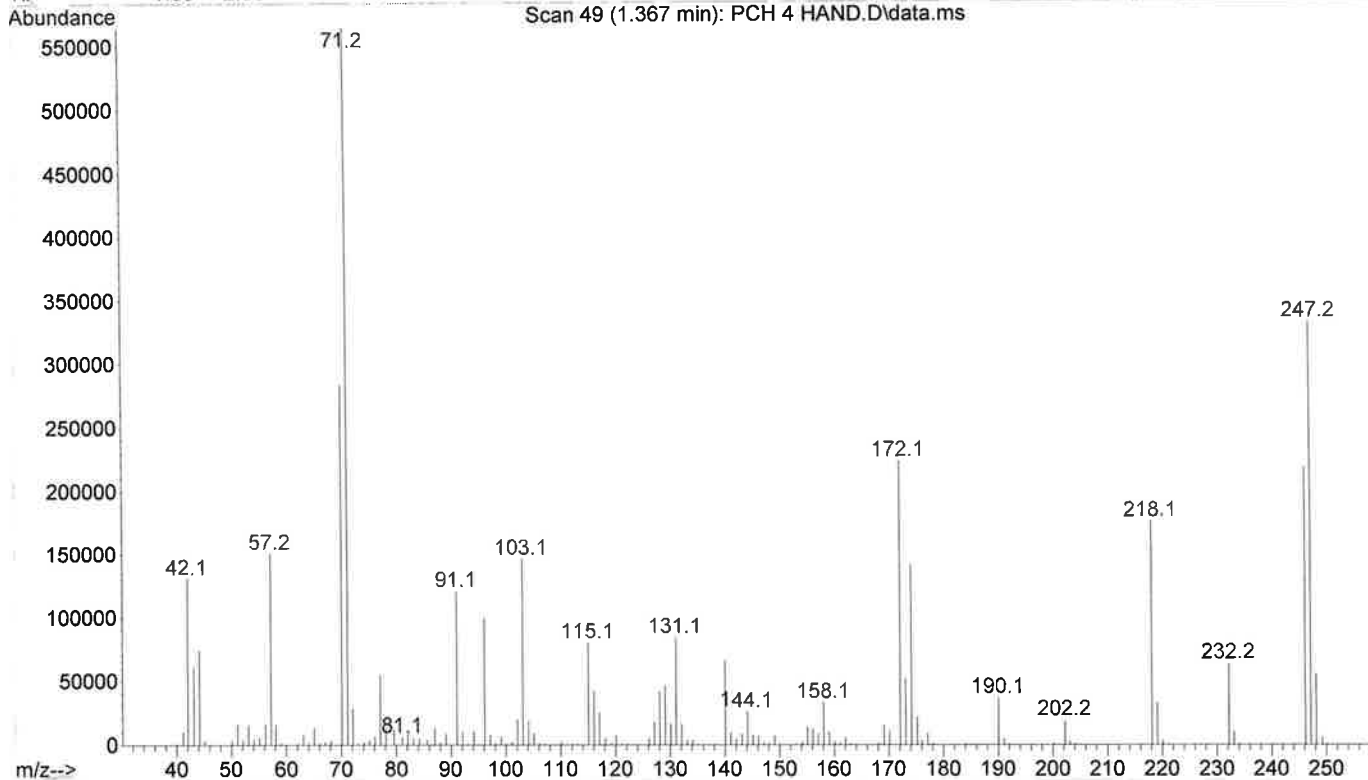
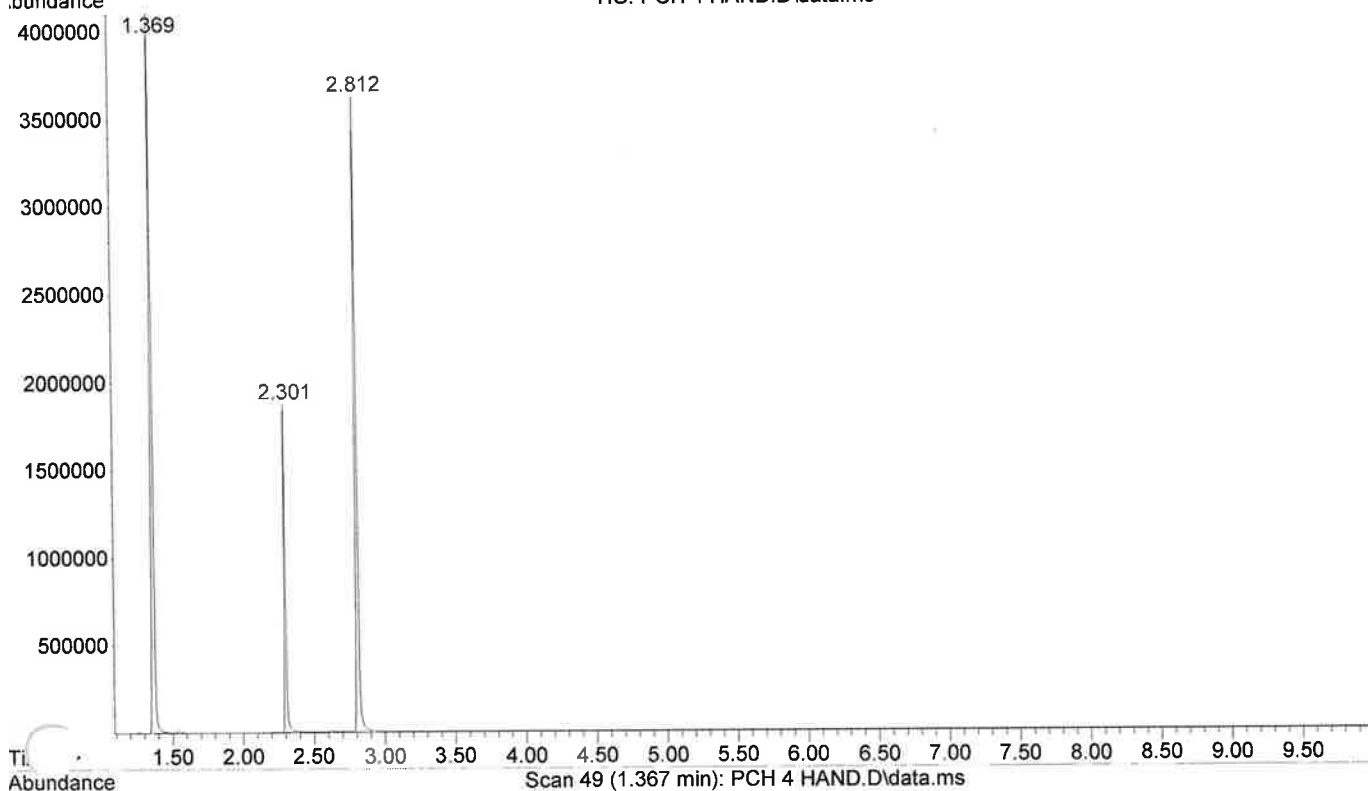
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: on 22 Jun 2017 10:34

Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M

Sample: Misc. Information:

TIC: PCH 4 HAND.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

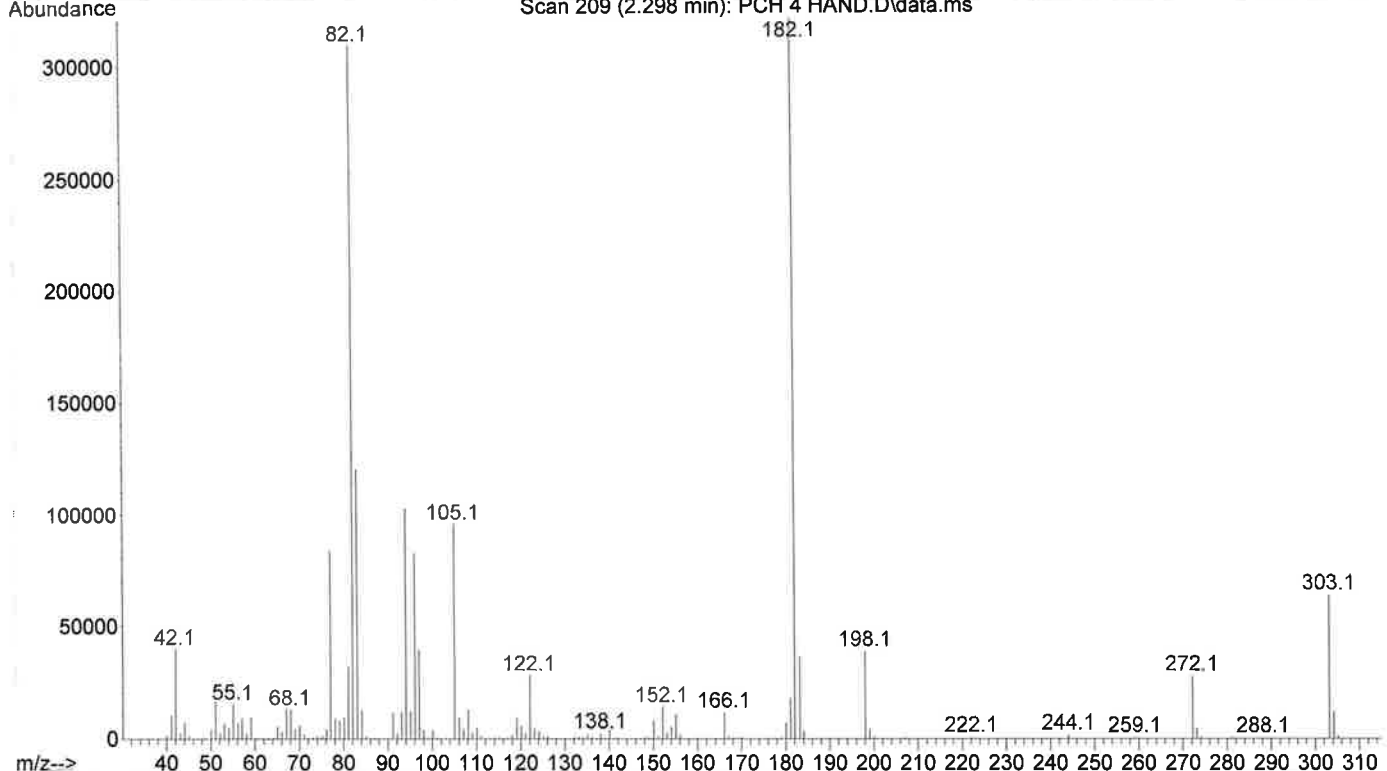
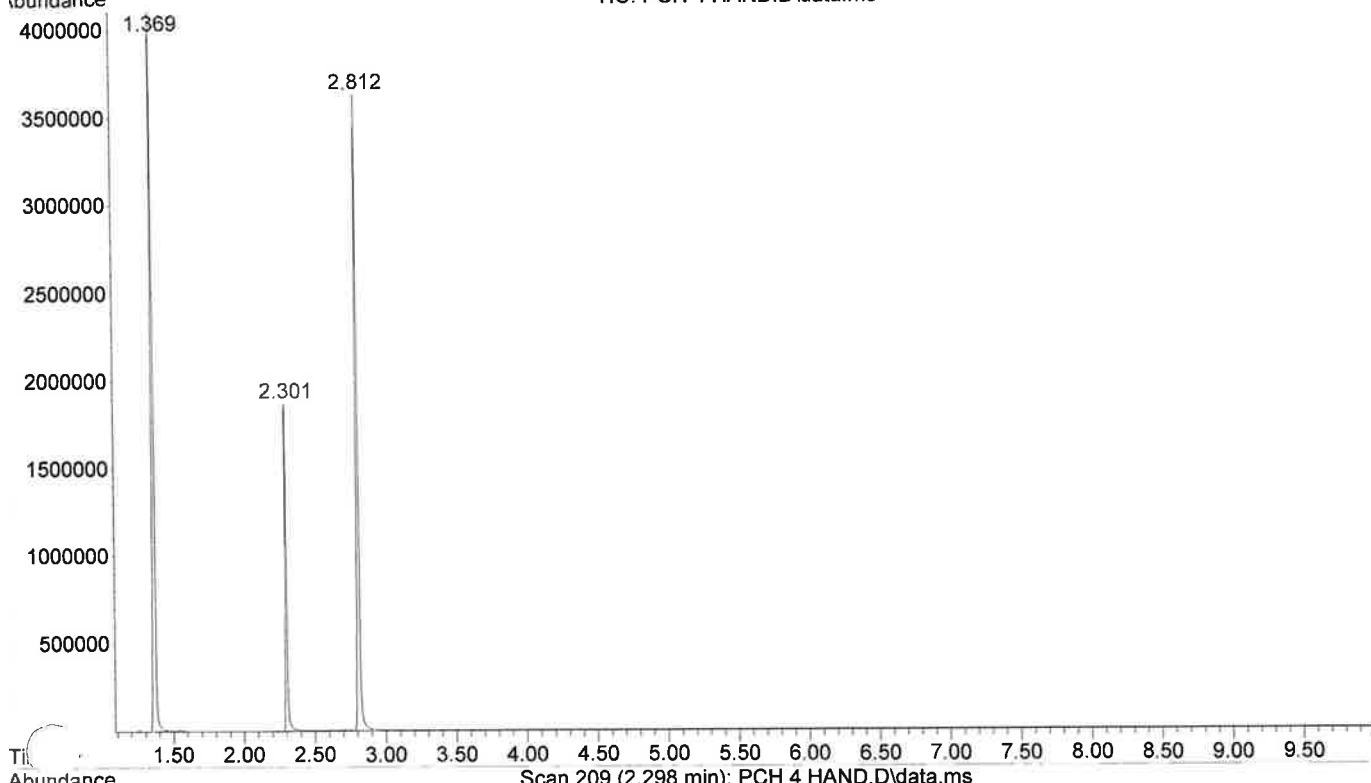
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

BMC

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 4 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:34
Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M

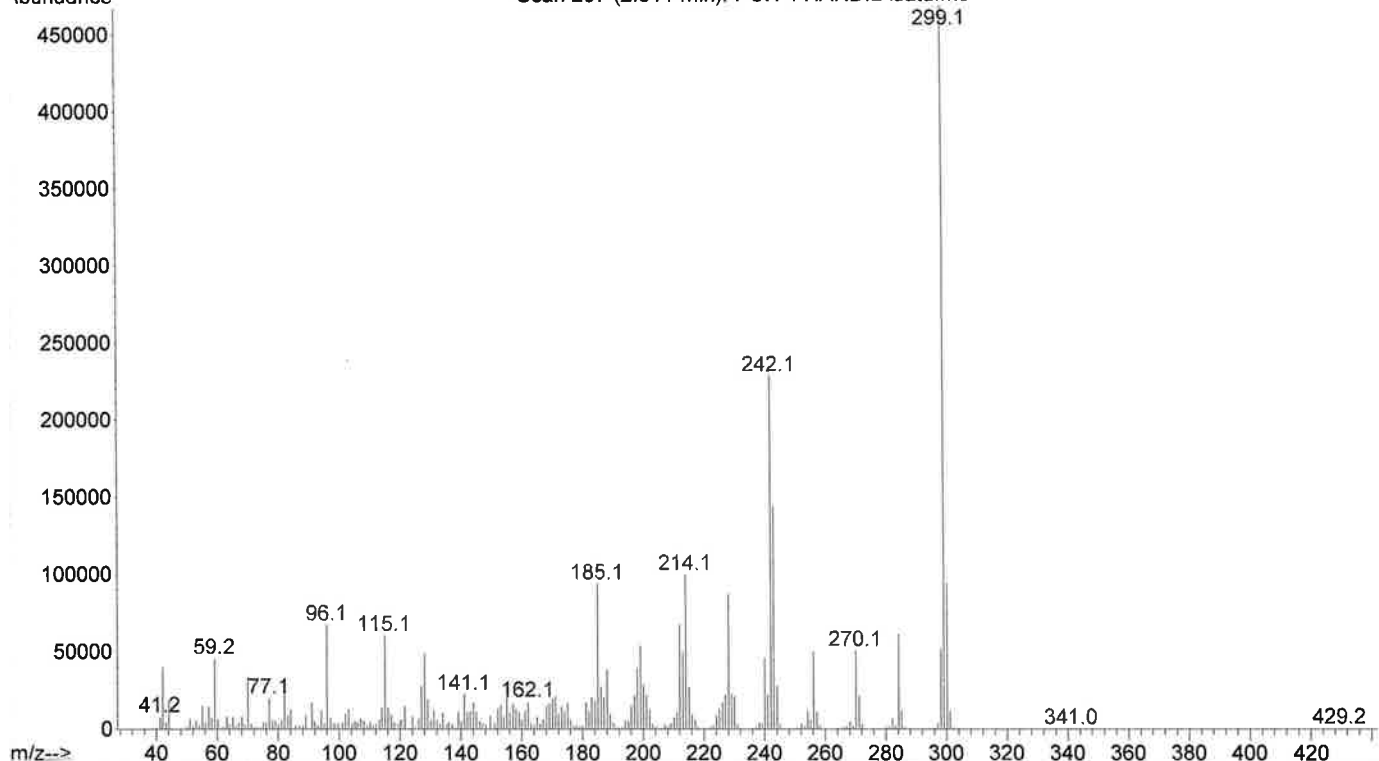
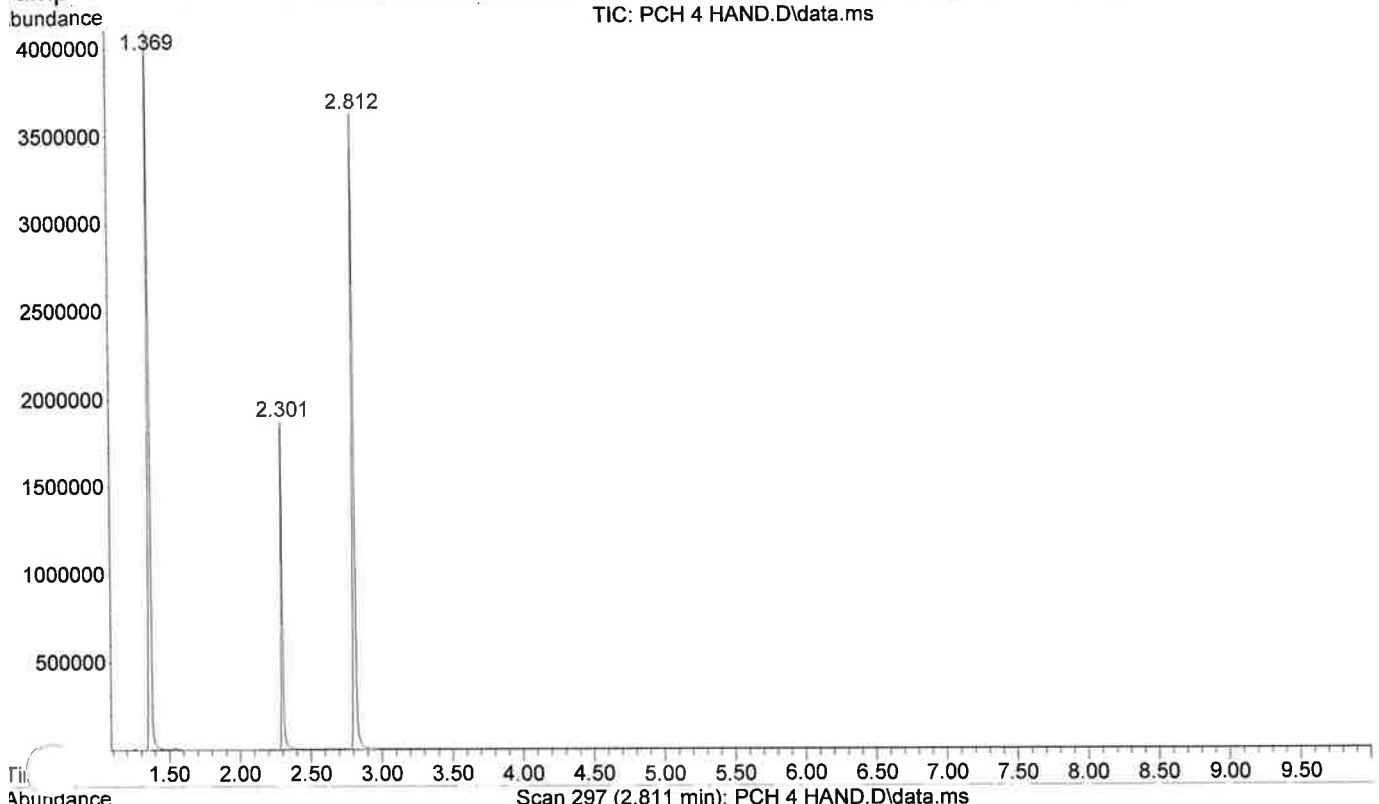
Sample: Misc. Information: TIC: PCH 4 HAND.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

One

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PC4 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:34
Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M
Sample: Misc. Information:

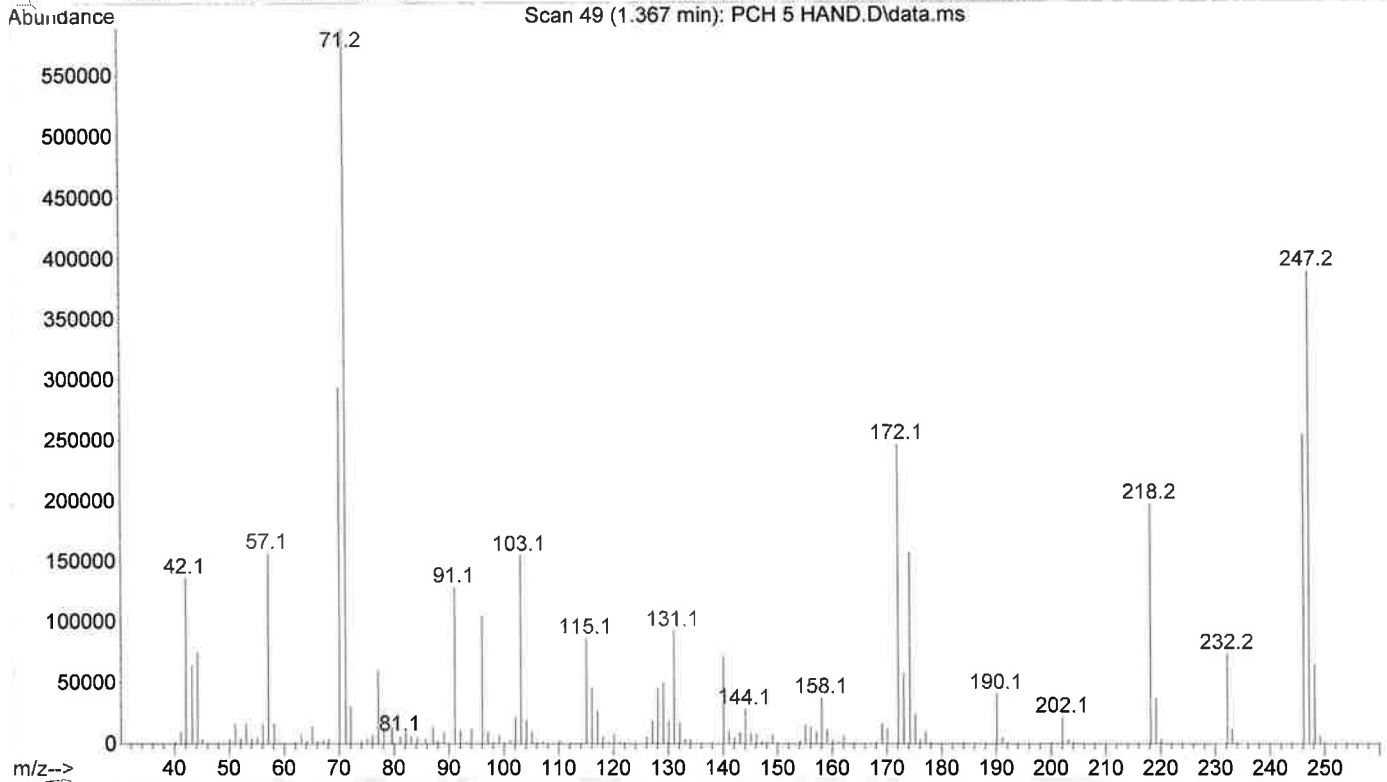
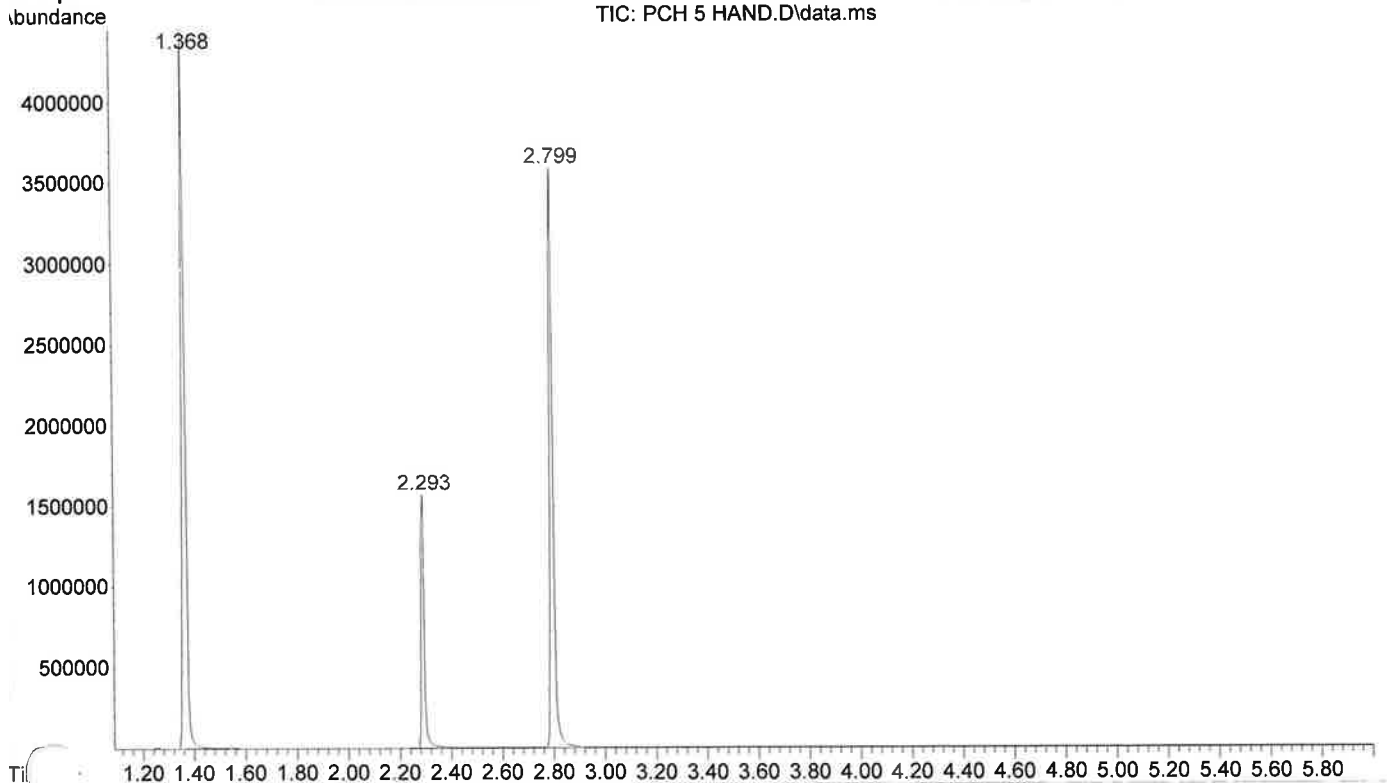


Column: 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

bmc

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 5 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:54
Path: C:\MSDCHEM\1\METHODS\MS200TR.M

Sample: Misc. Information:

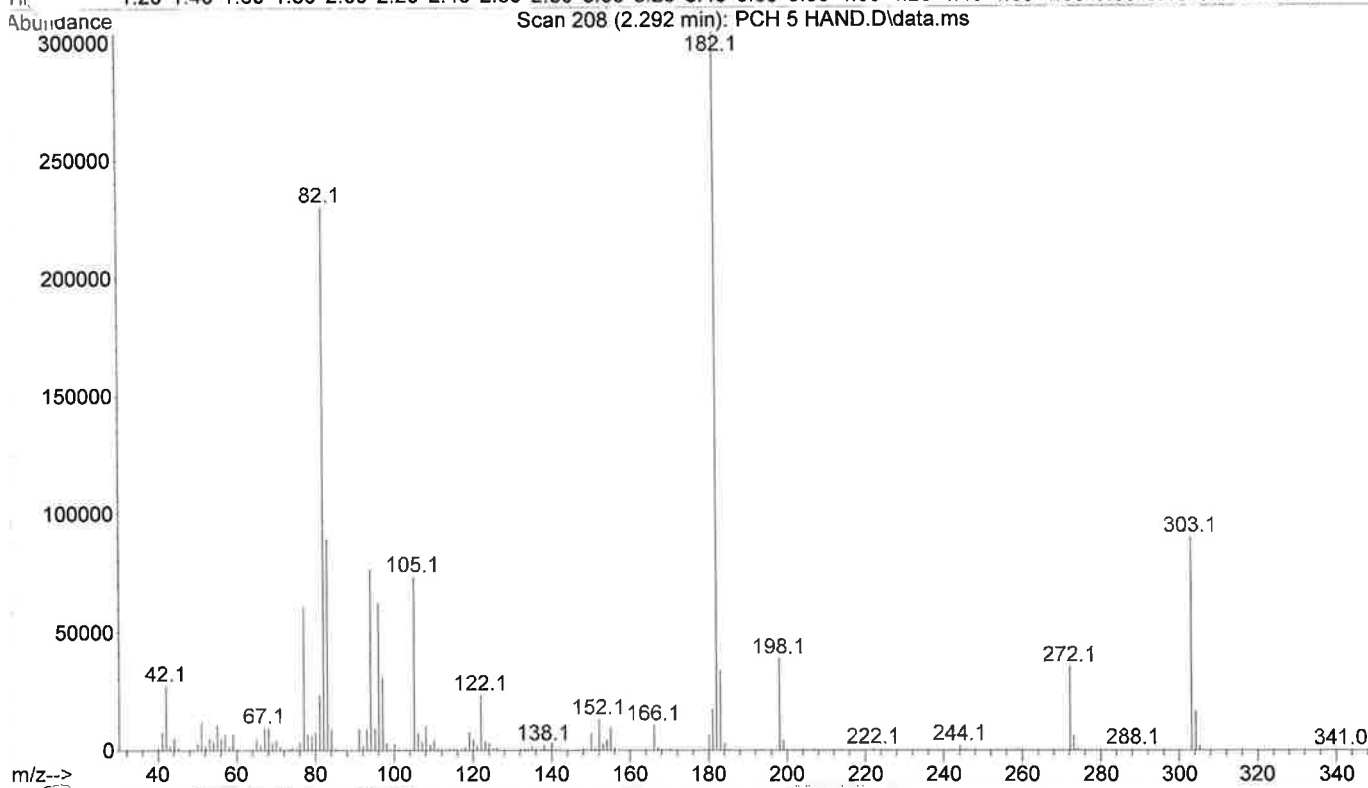
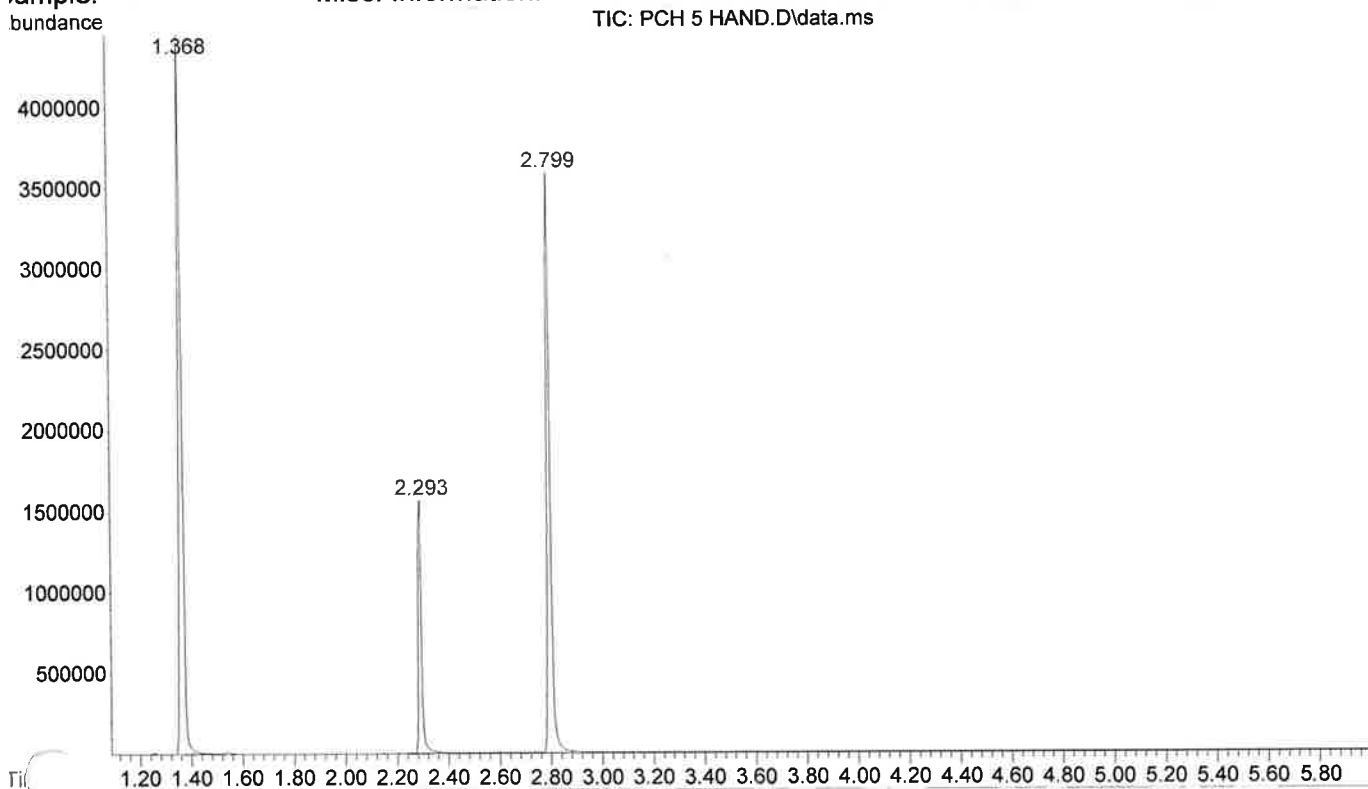


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

ennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 5 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:54
Method: C:\MSDCHEM\1\METHODS\MS200TR.M

Eme

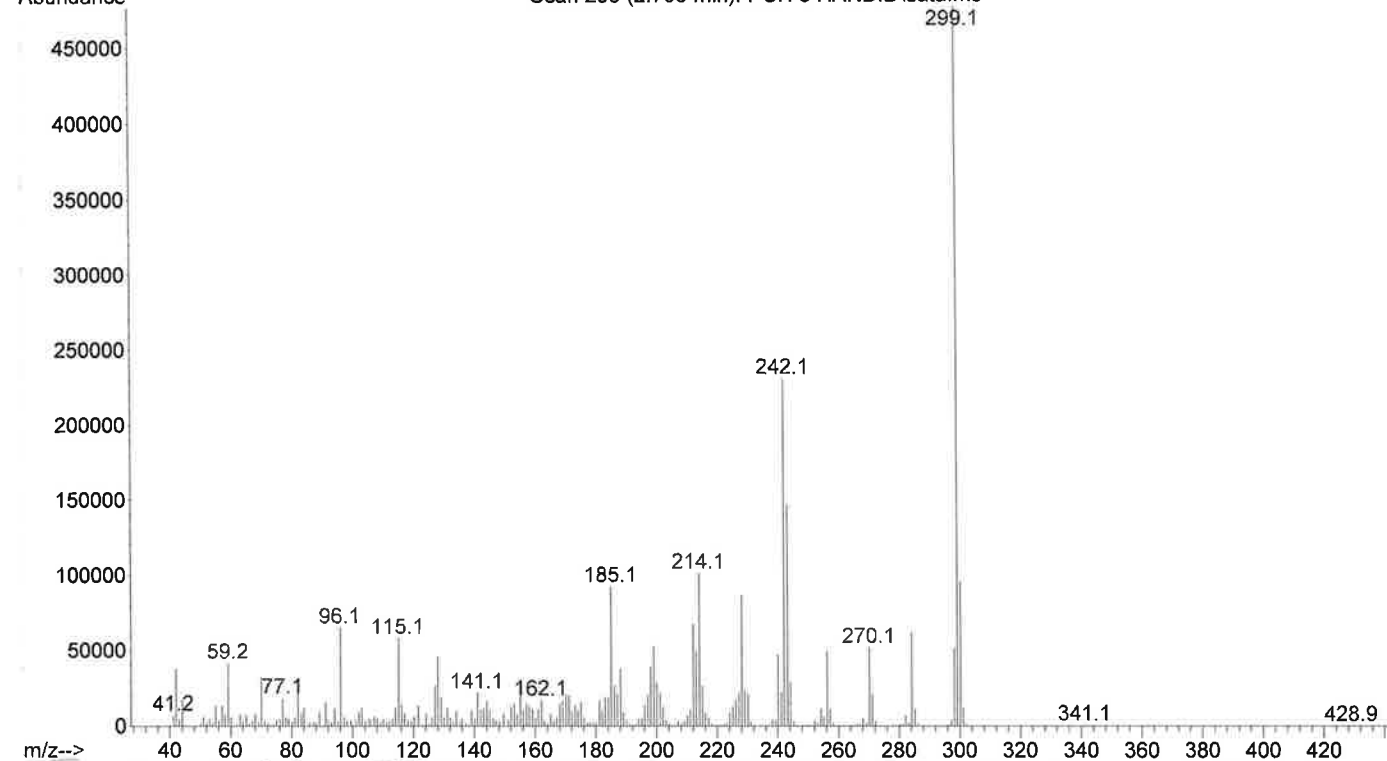
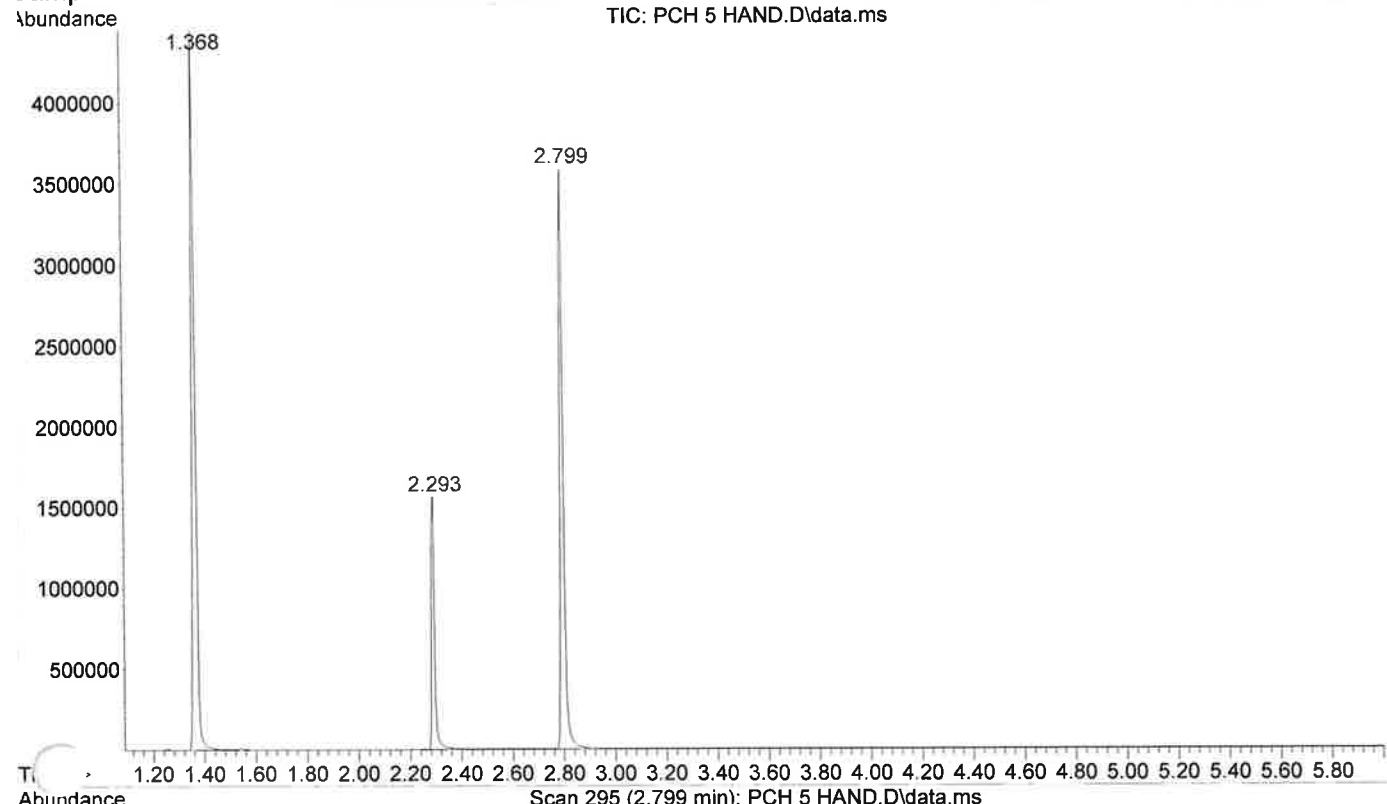
Sample: Misc. Information:



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 5 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:54
Path: C:\MSDCHEM\1\METHODS\MS200TR.M
Sample: Misc. Information:

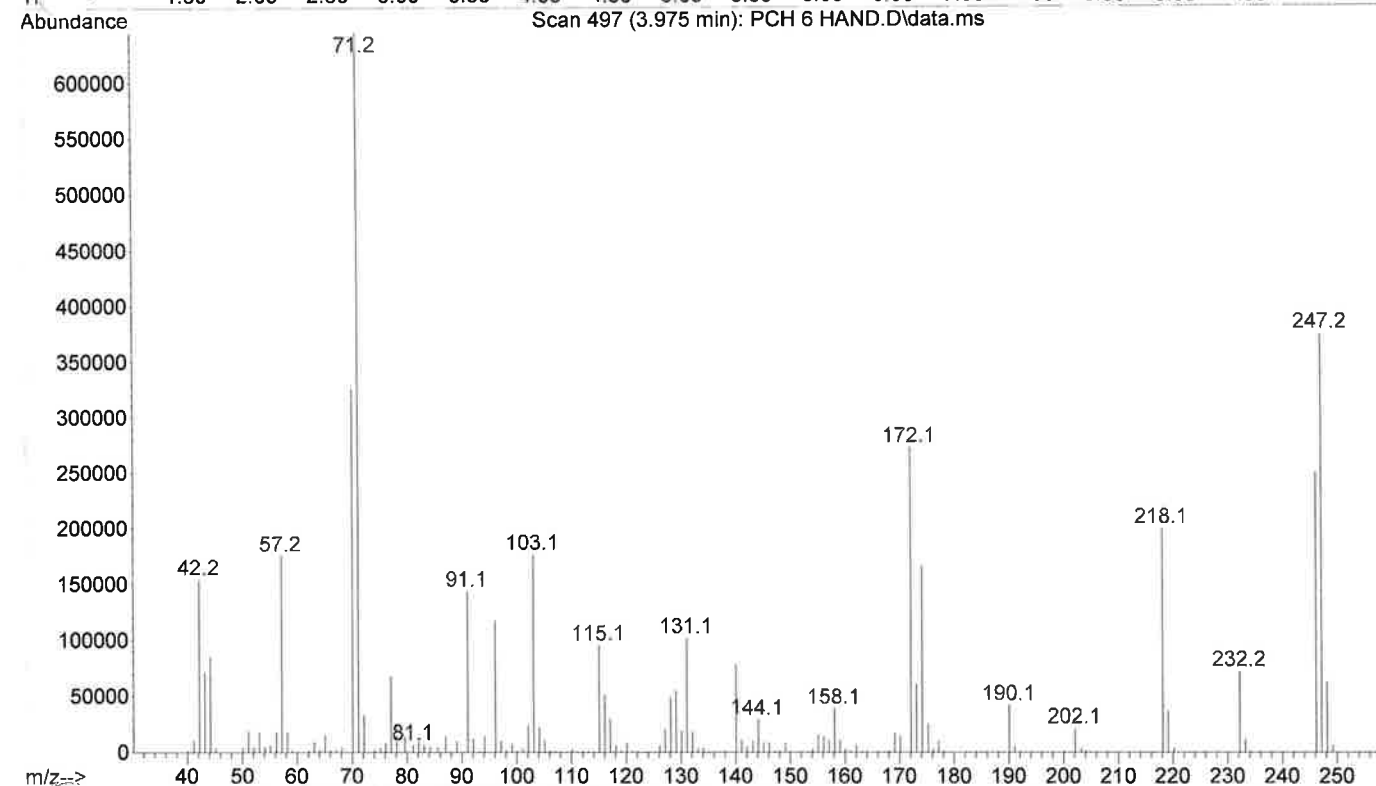
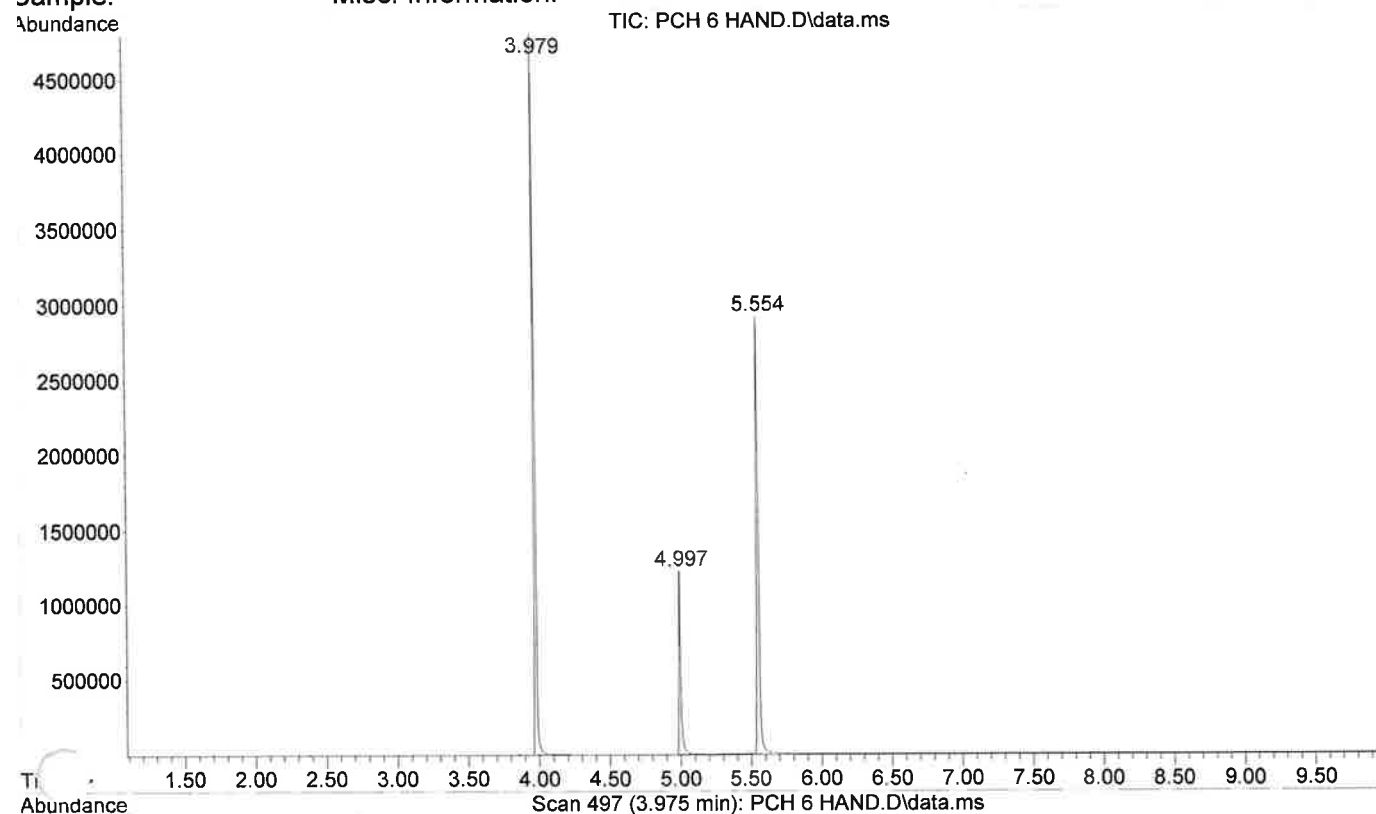
One



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 6 HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 13:09
Vial: 6
Path: C:\MSDCHEM\1\METHODS\MSDRUGS60.M
Sample: Misc. Information:

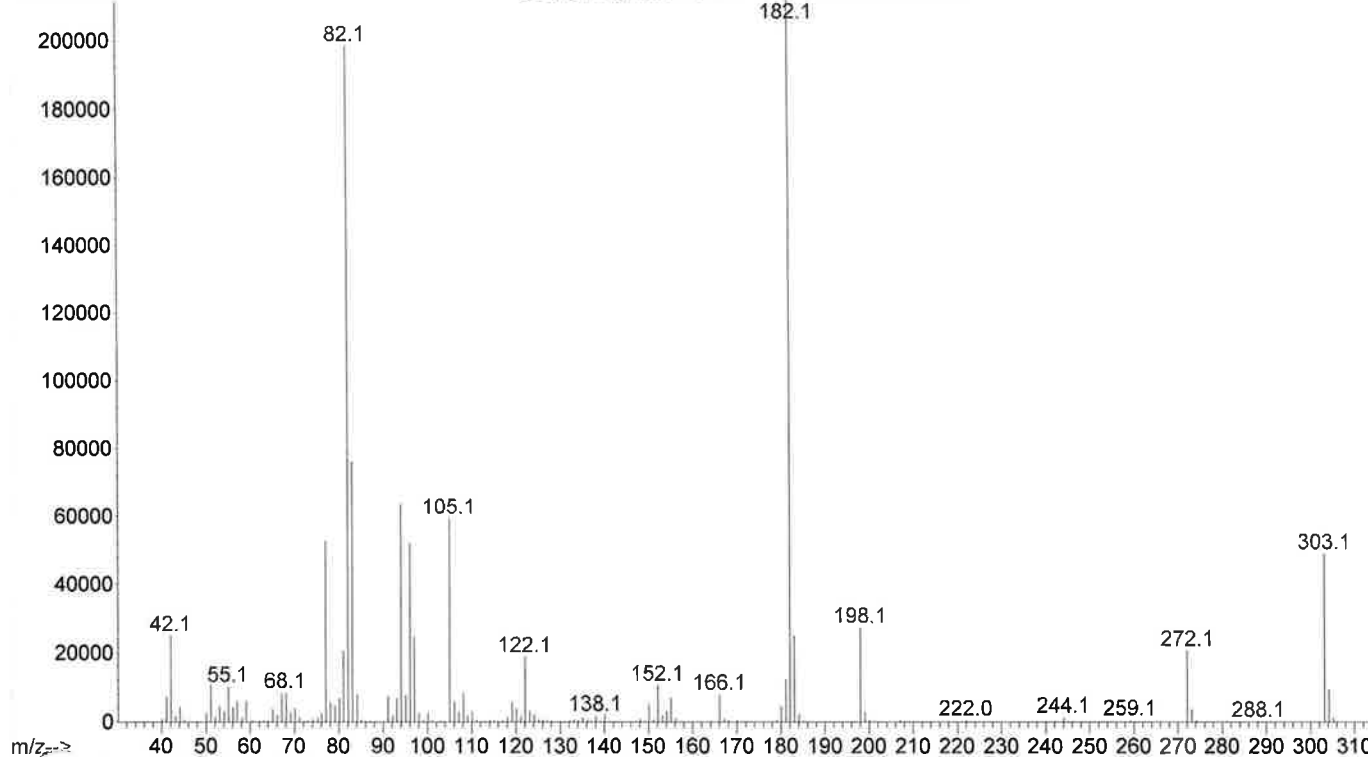
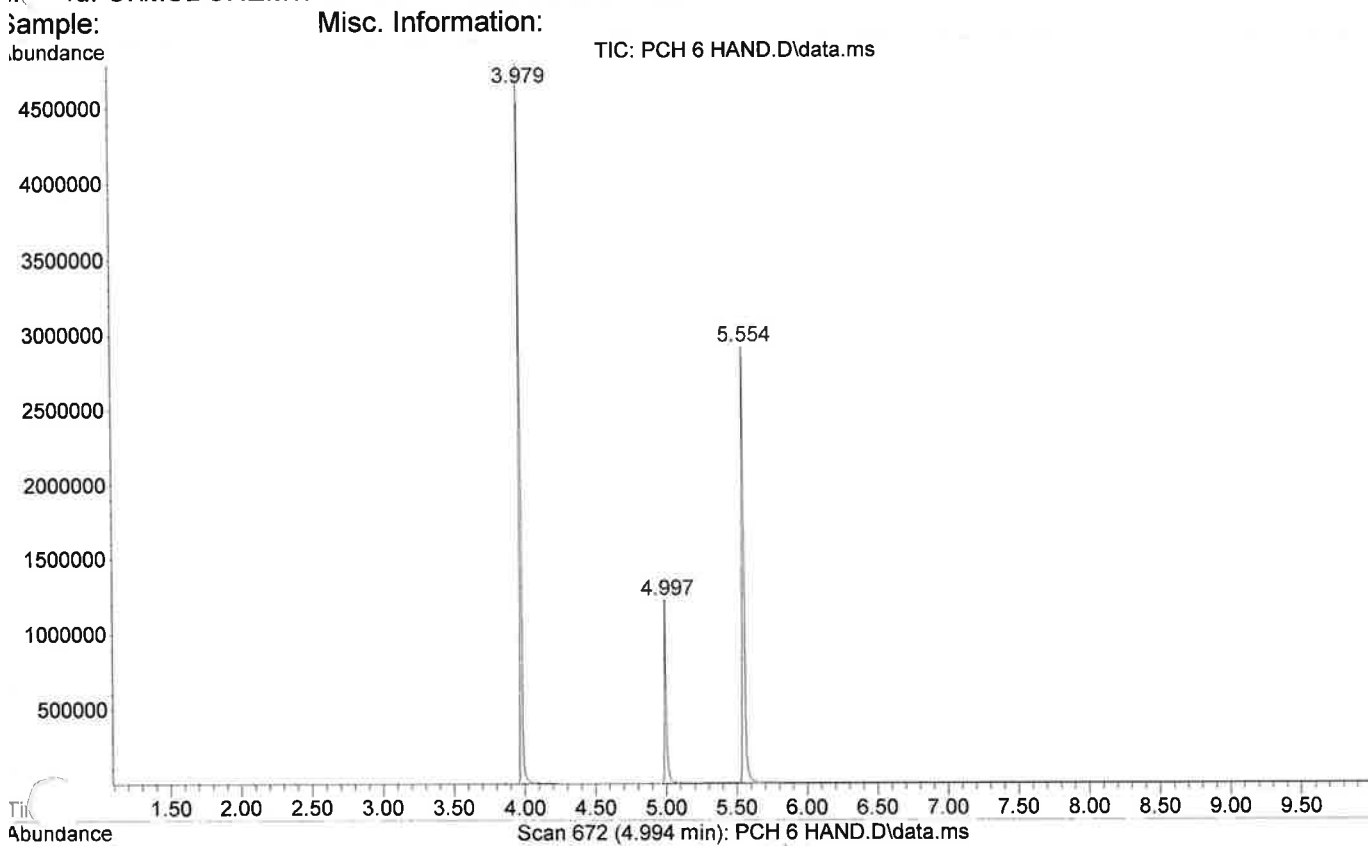
6me



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.38 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PC6 HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 13:09
Method: C:\MSDCHEM\1\METHODS\MSDRUGS60.M

Gmc



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.38 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 6 HAND.D

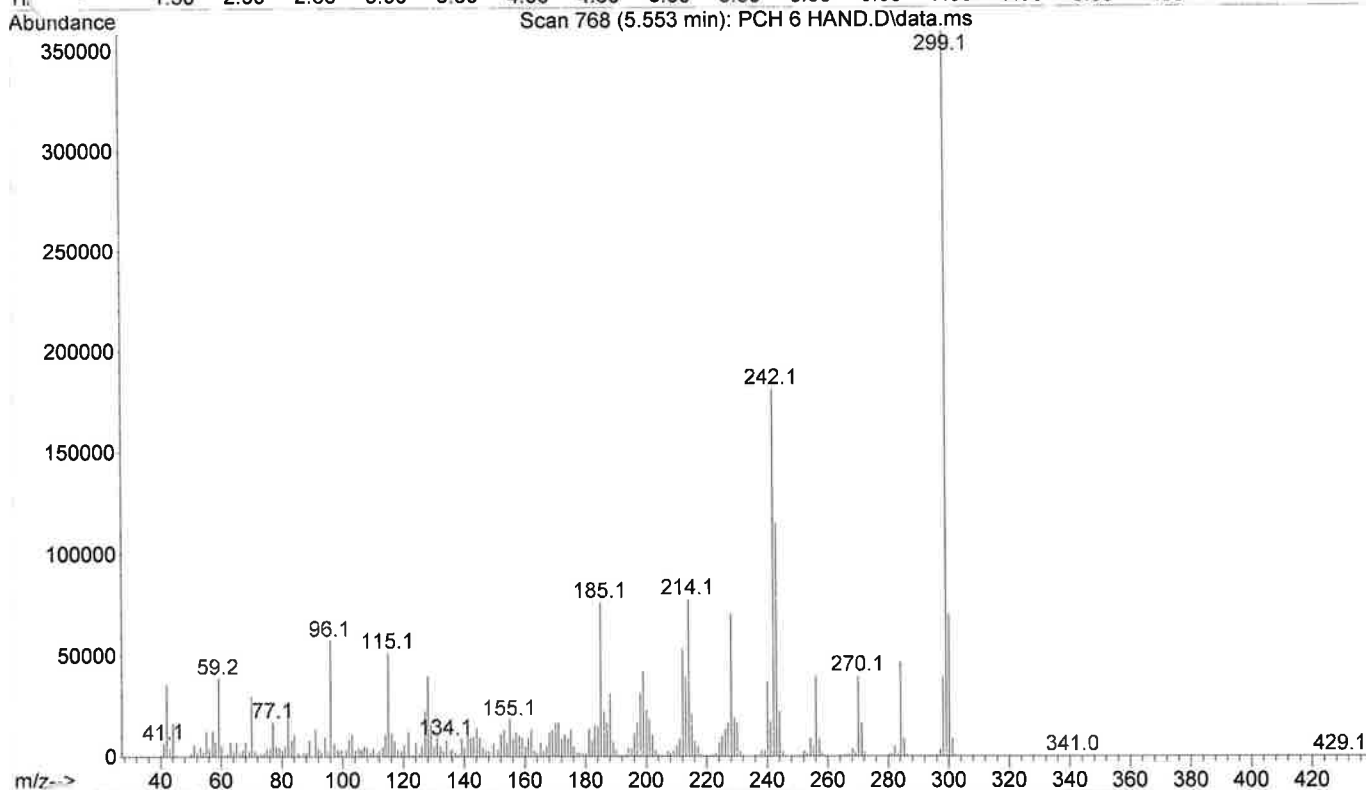
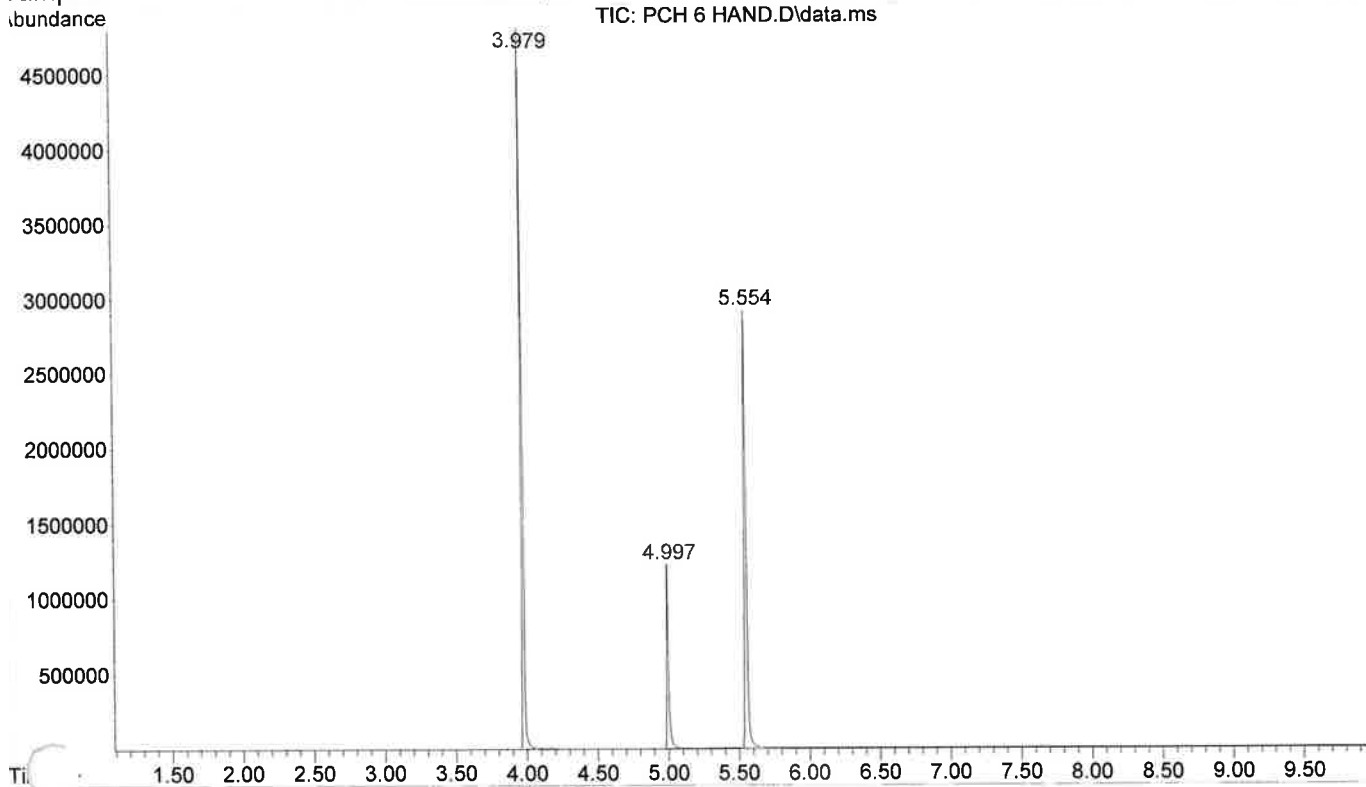
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: on 22 Jun 2017 13:09

Method: C:\MSDCHEM\1\METHODS\MSDRUGS60.M

Sample: Misc. Information:



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.38 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

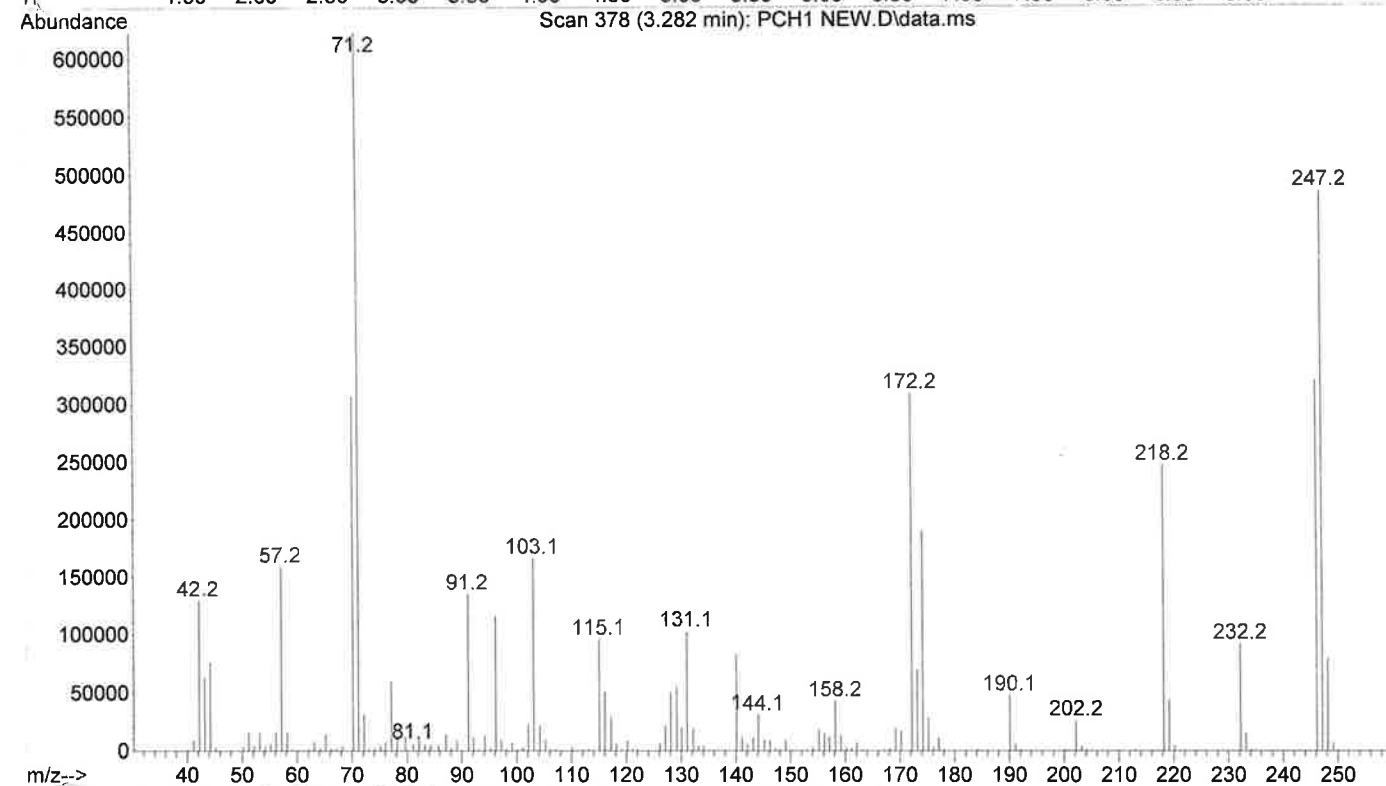
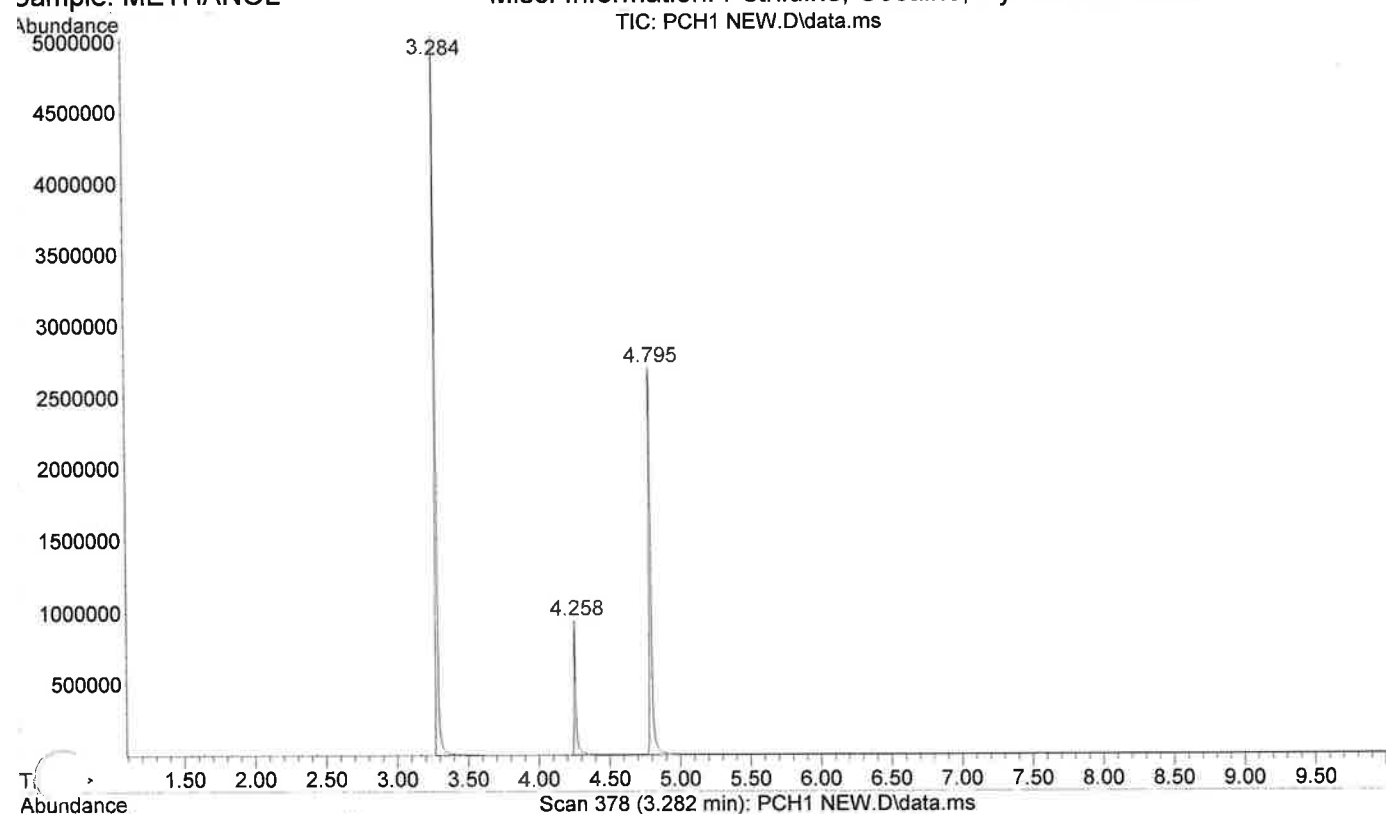
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 10:31

6mc

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



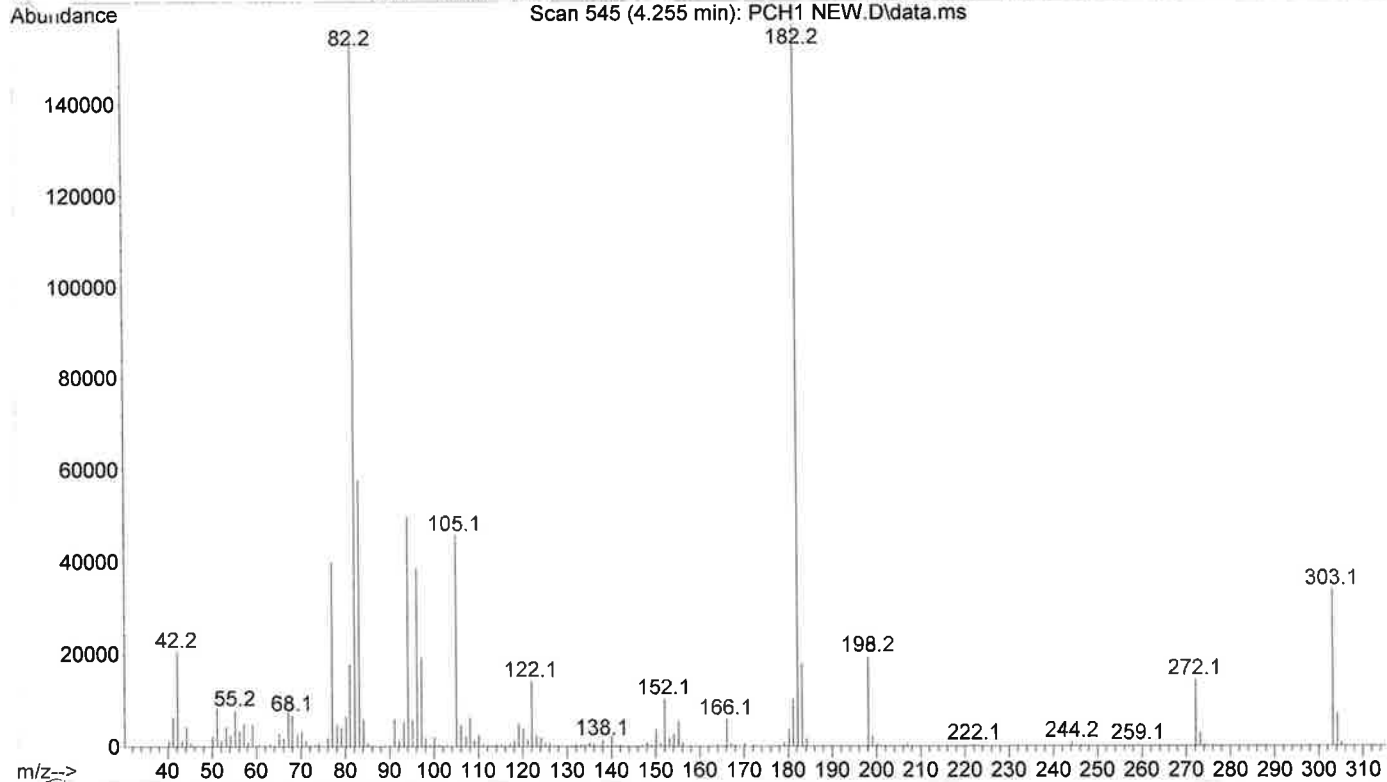
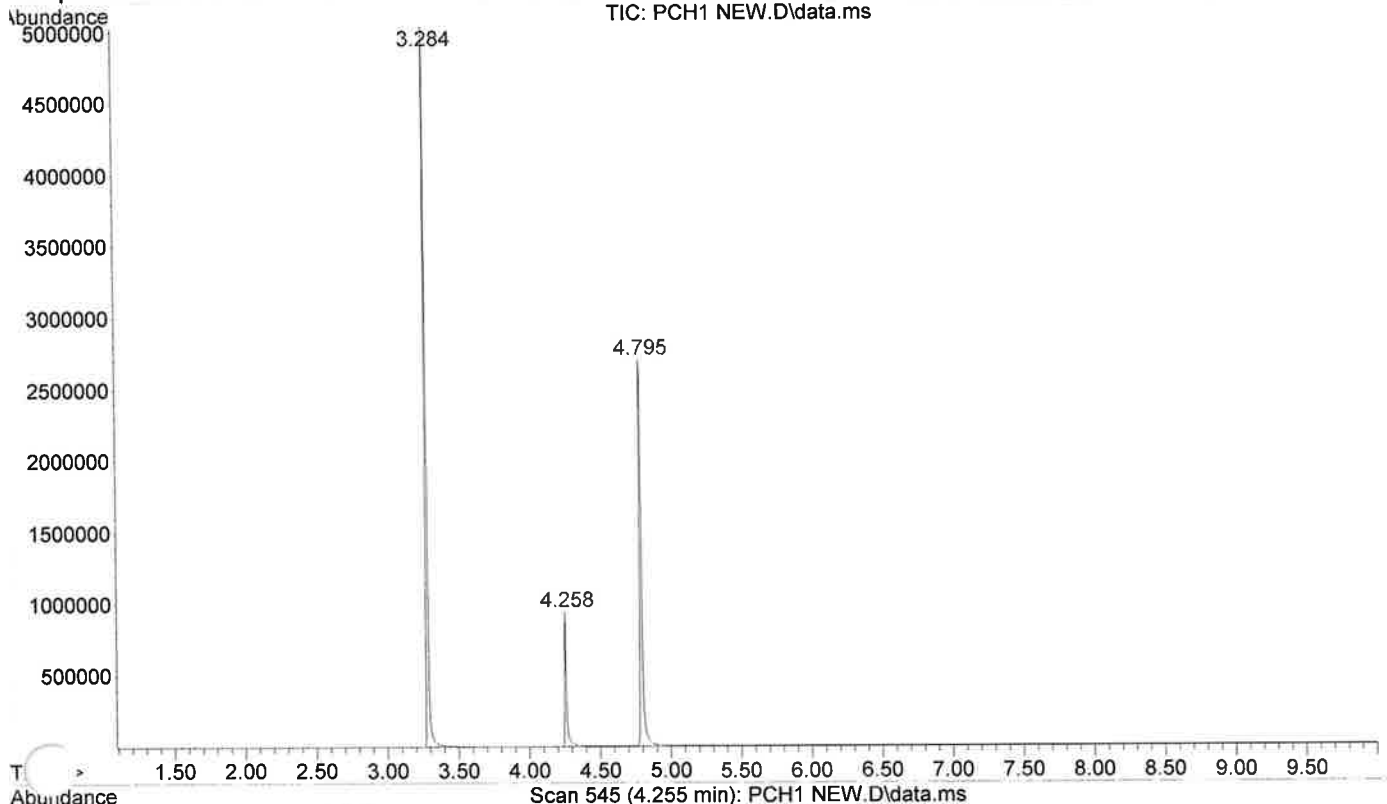
Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 10:31
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

USIS

bmc

Sample: METHANOL Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH1 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH1 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

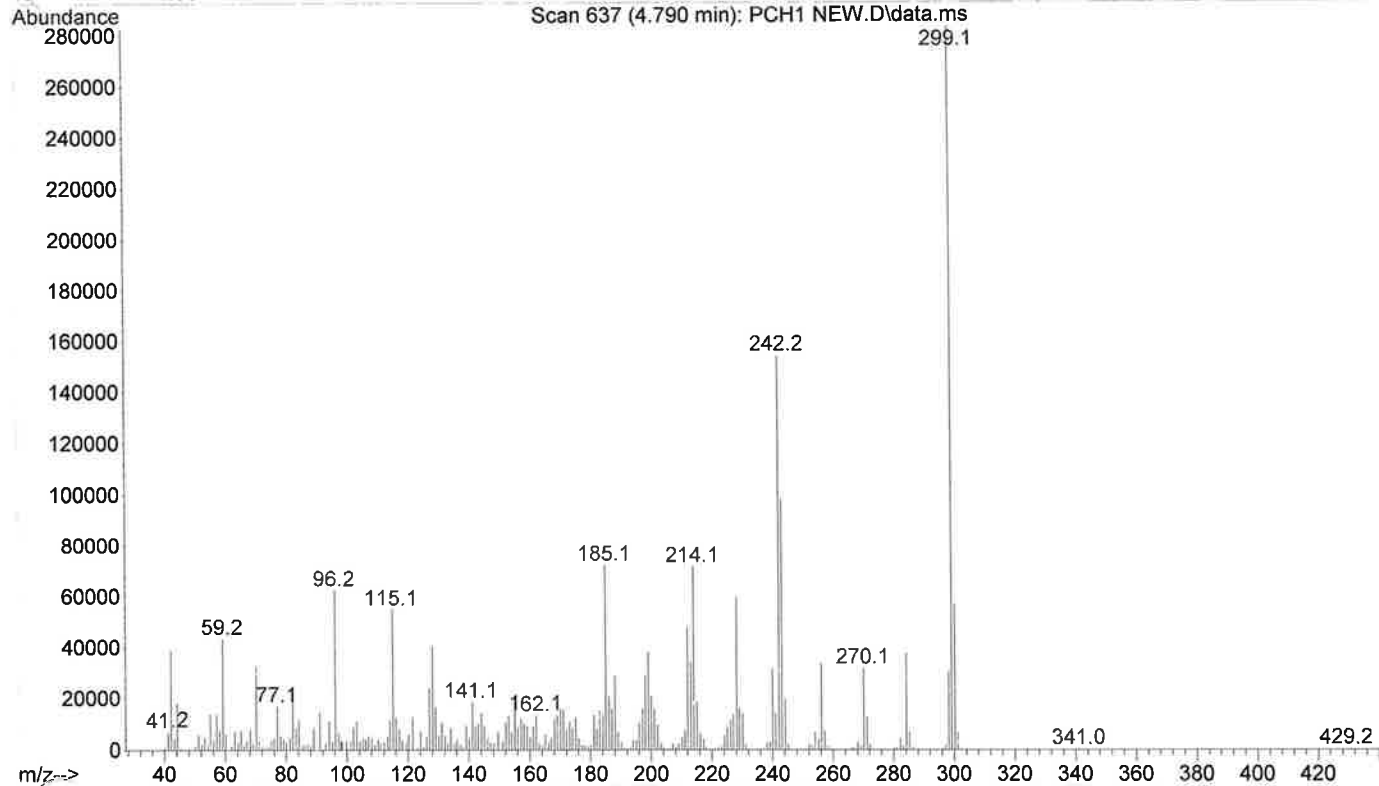
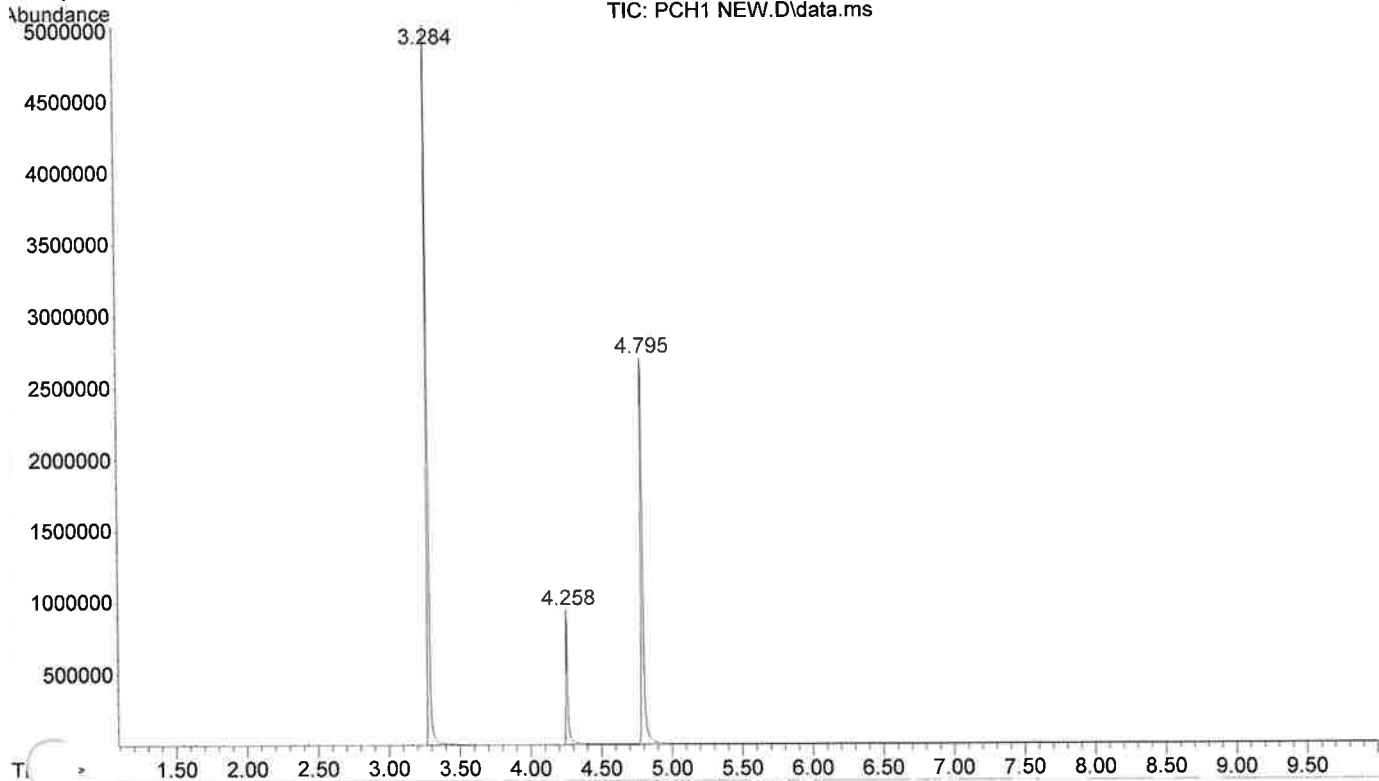
Operator: WILLIAM STANTON on 16 Jun 2017 10:31

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH1 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCHEW 6-16-2017\PCHEW 6-16-2017.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

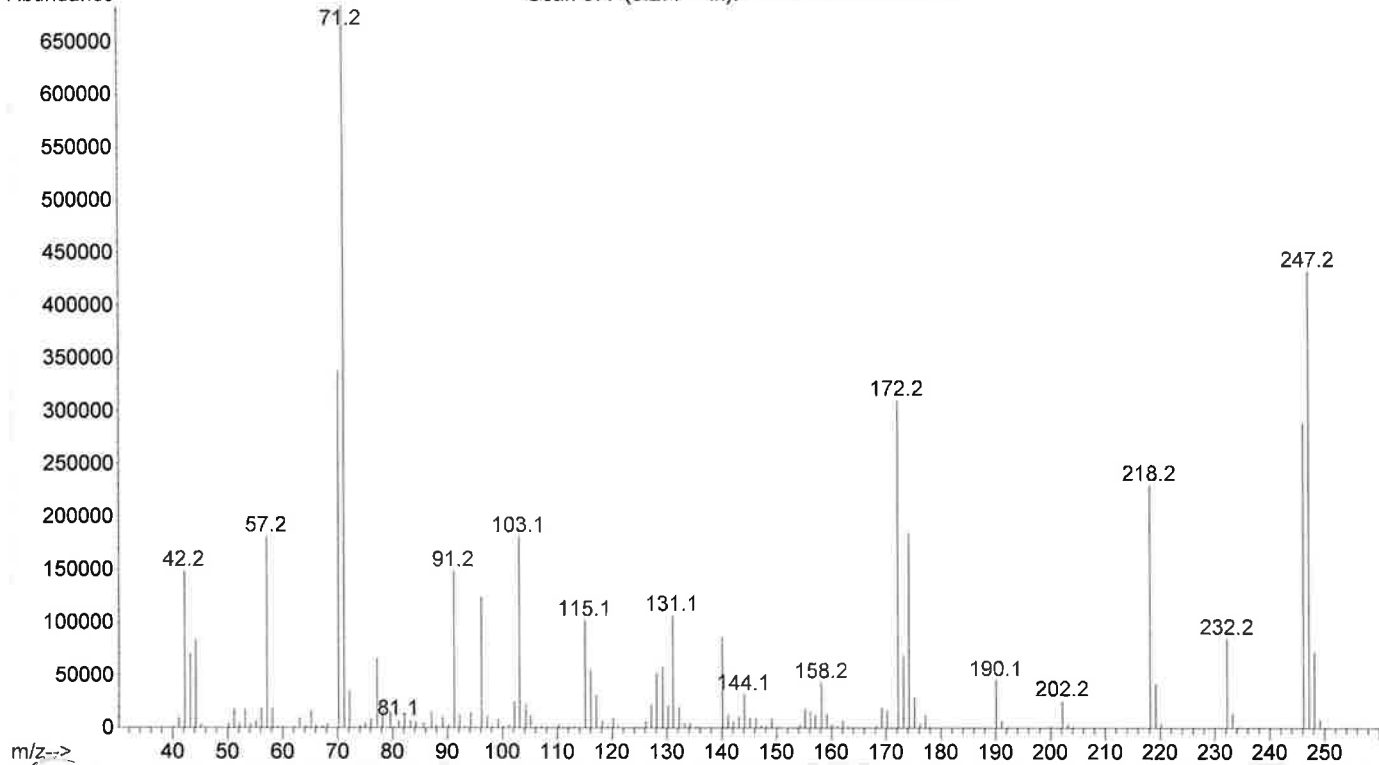
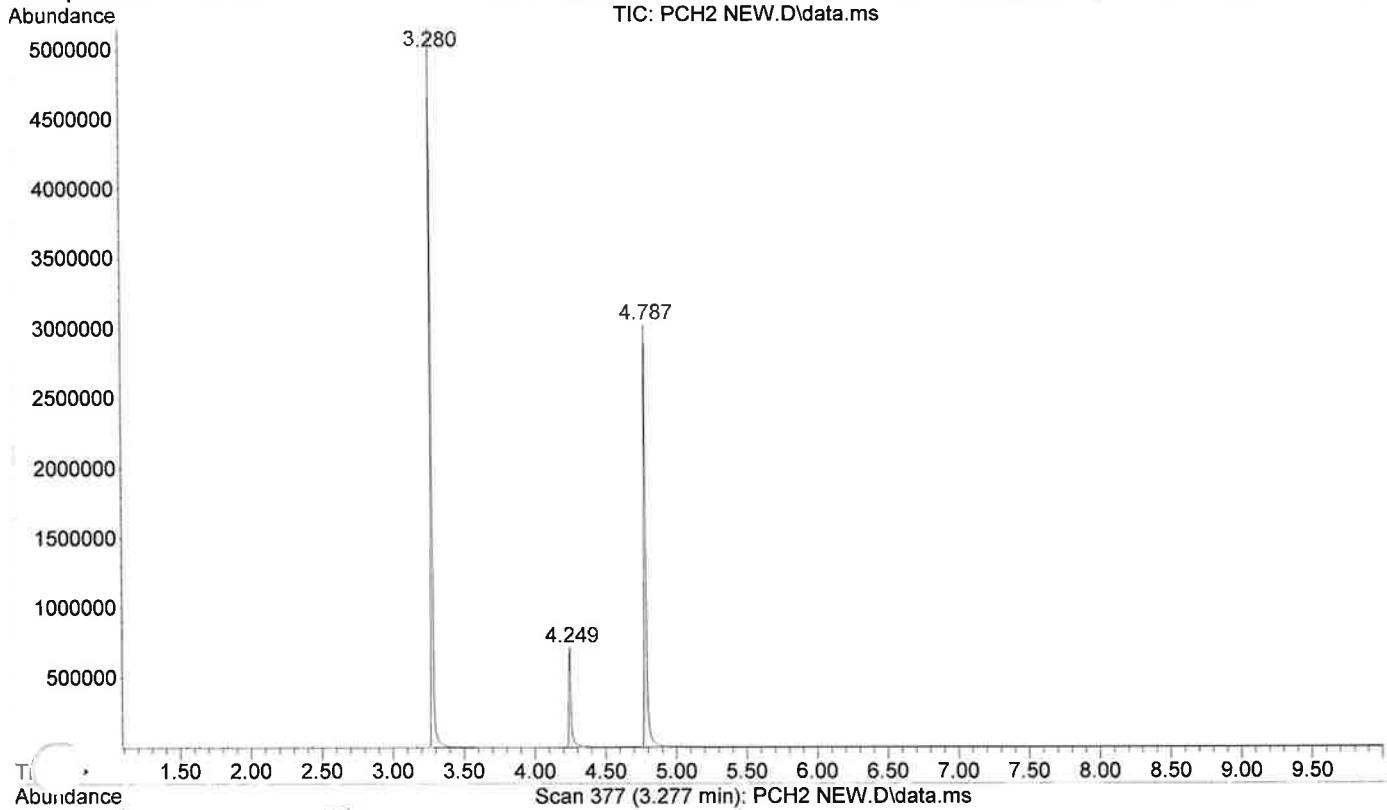
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 11:00

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

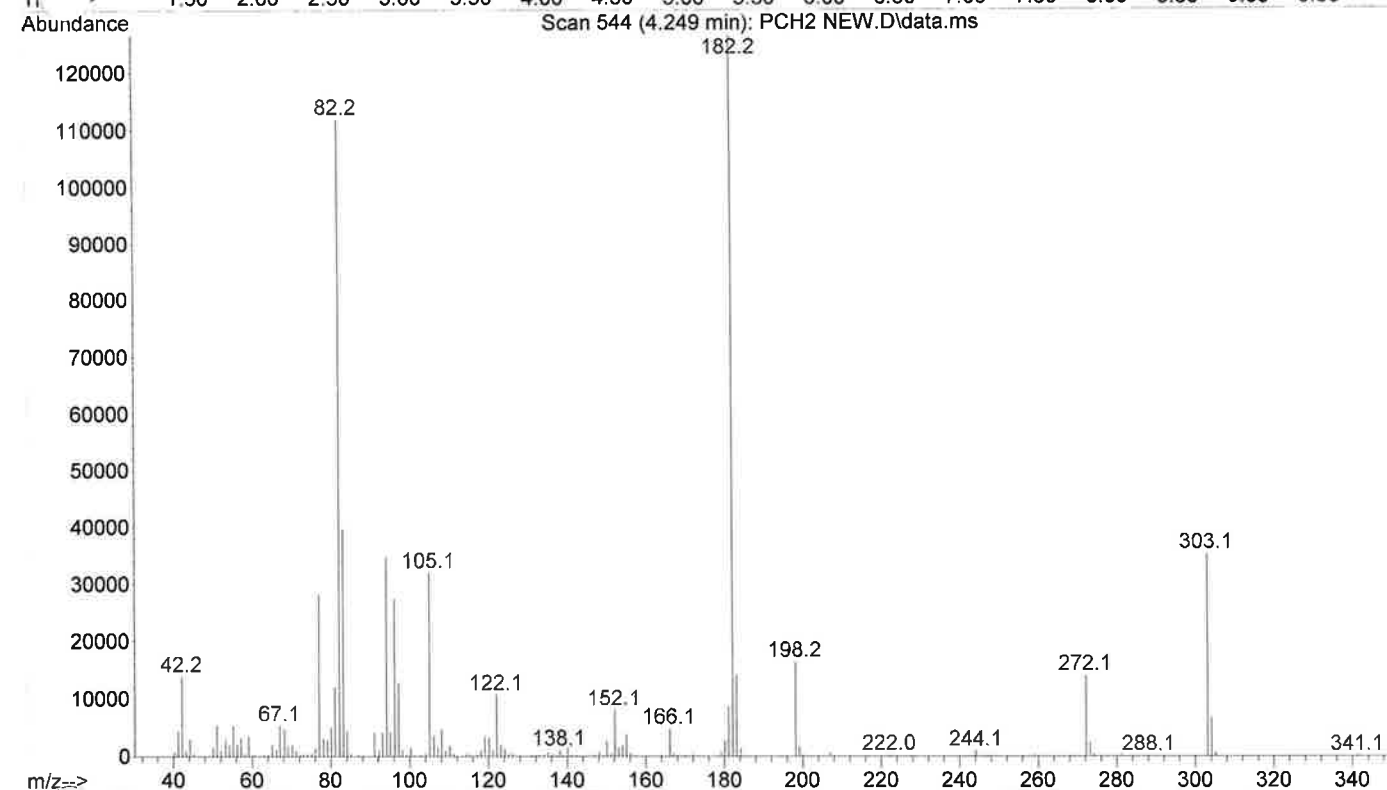
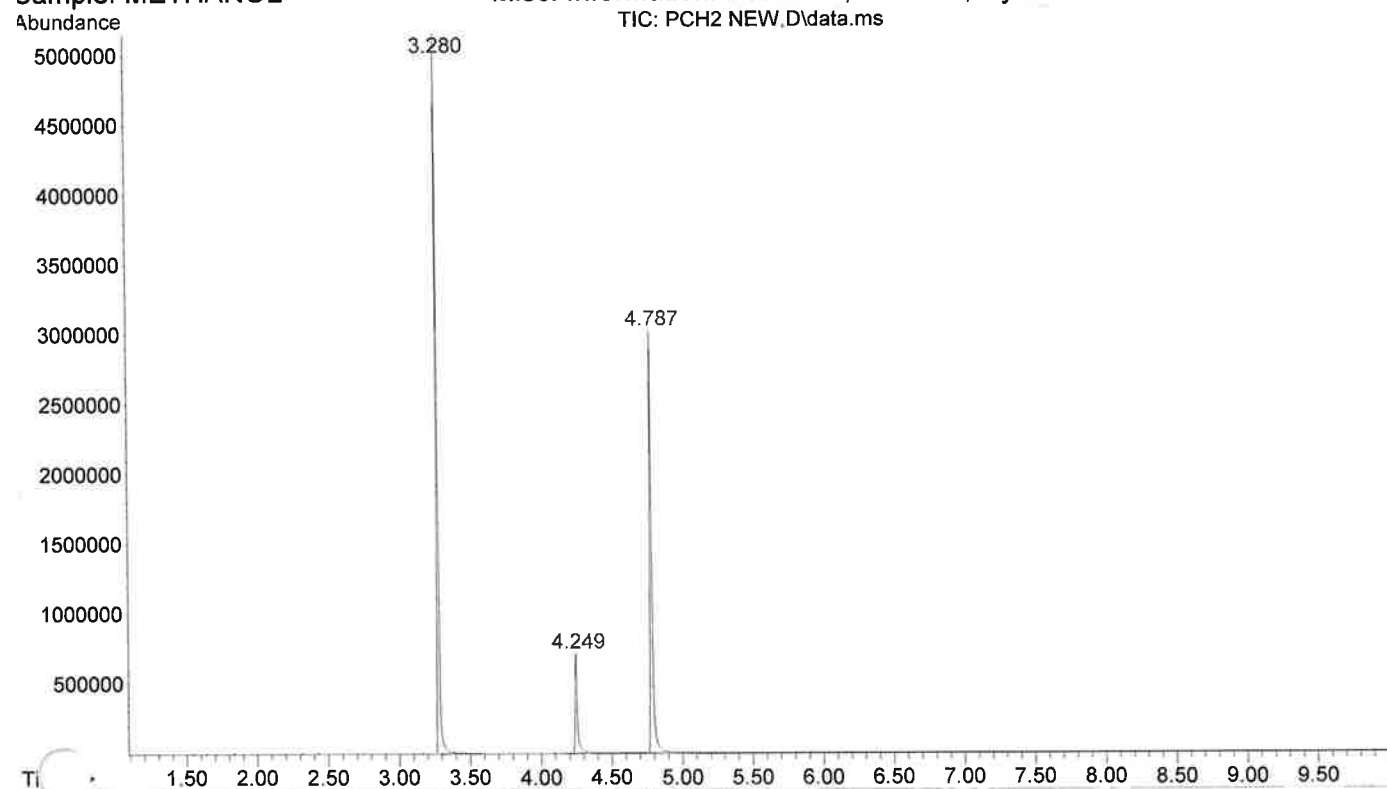
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH2 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 11:00

Bme

Path: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH2 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

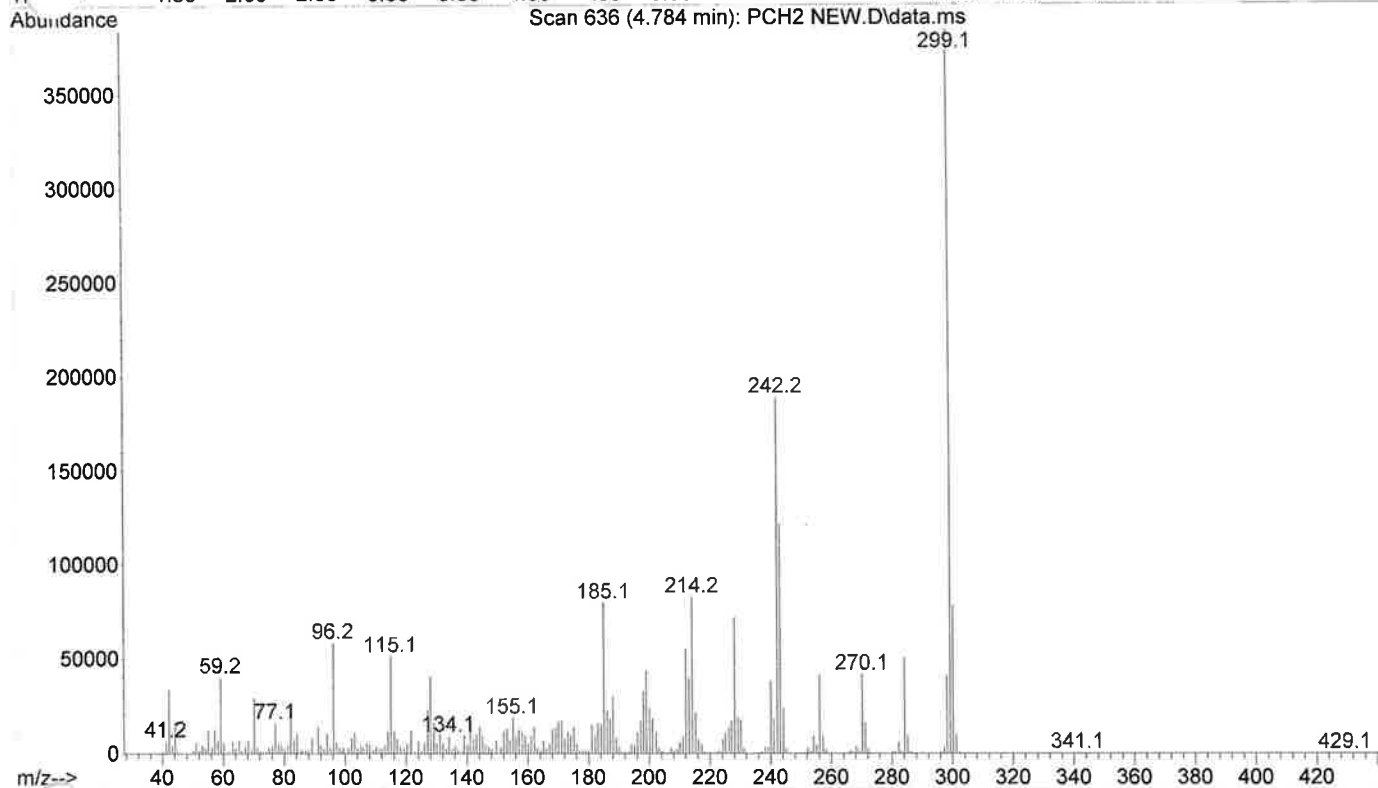
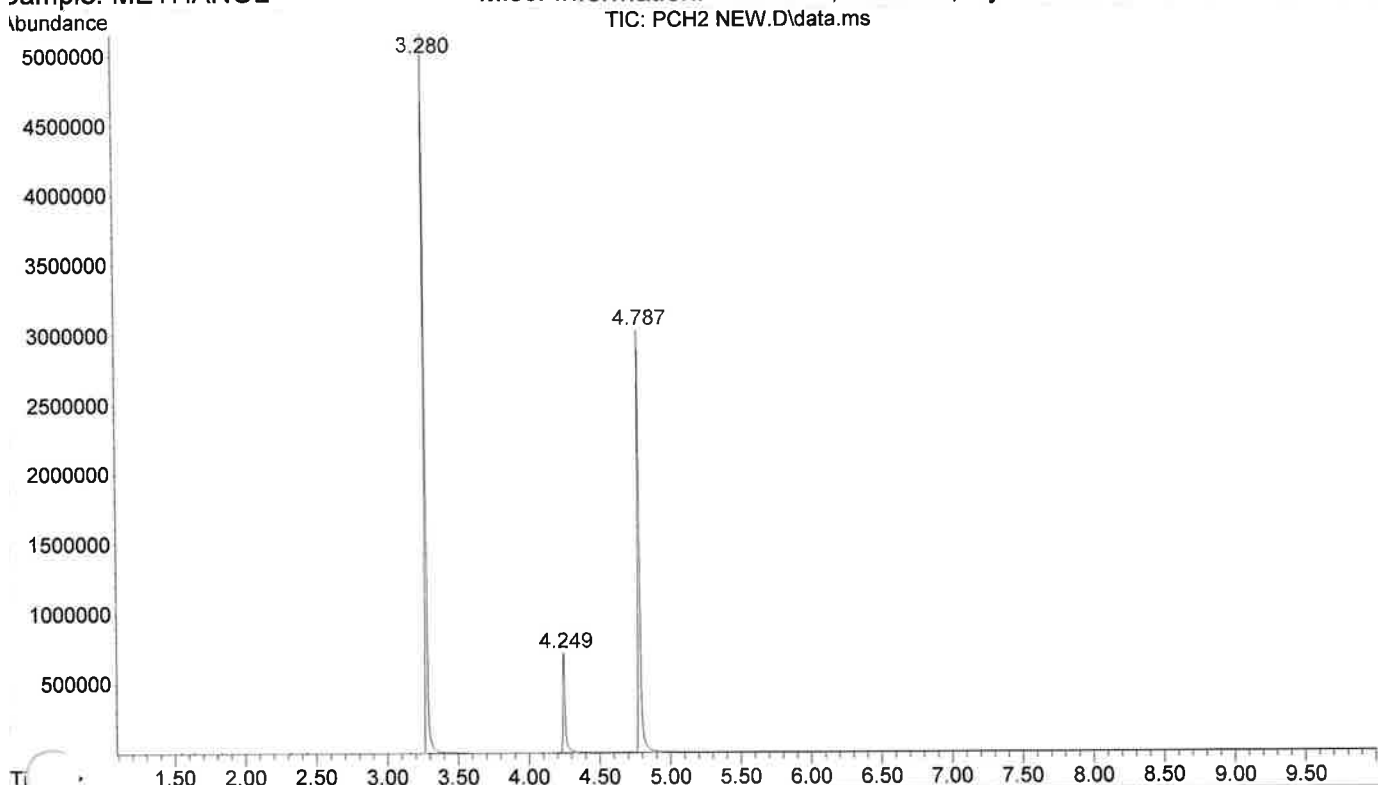
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 11:00

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH3 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

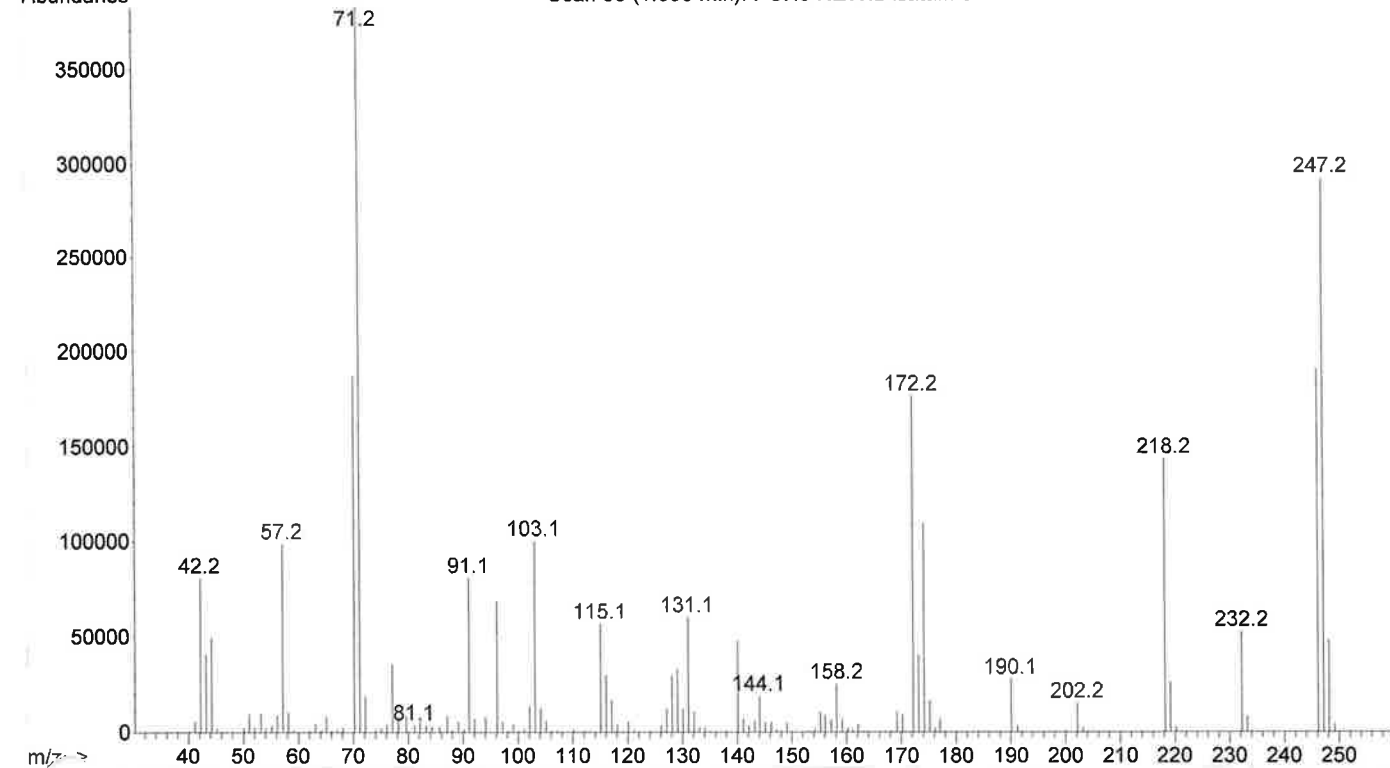
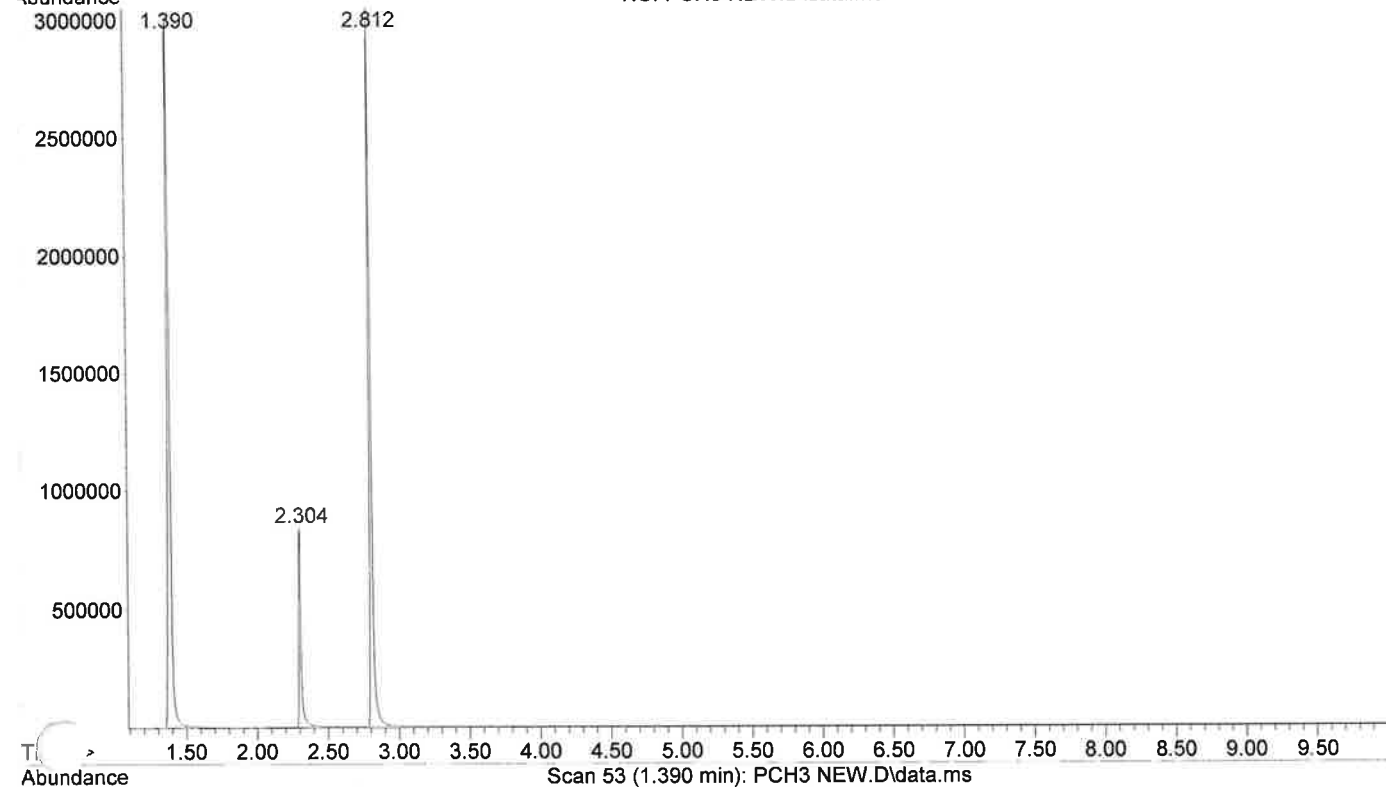
Operator: WILLIAM STANTON on 16 Jun 2017 11:27

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH3 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH3 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

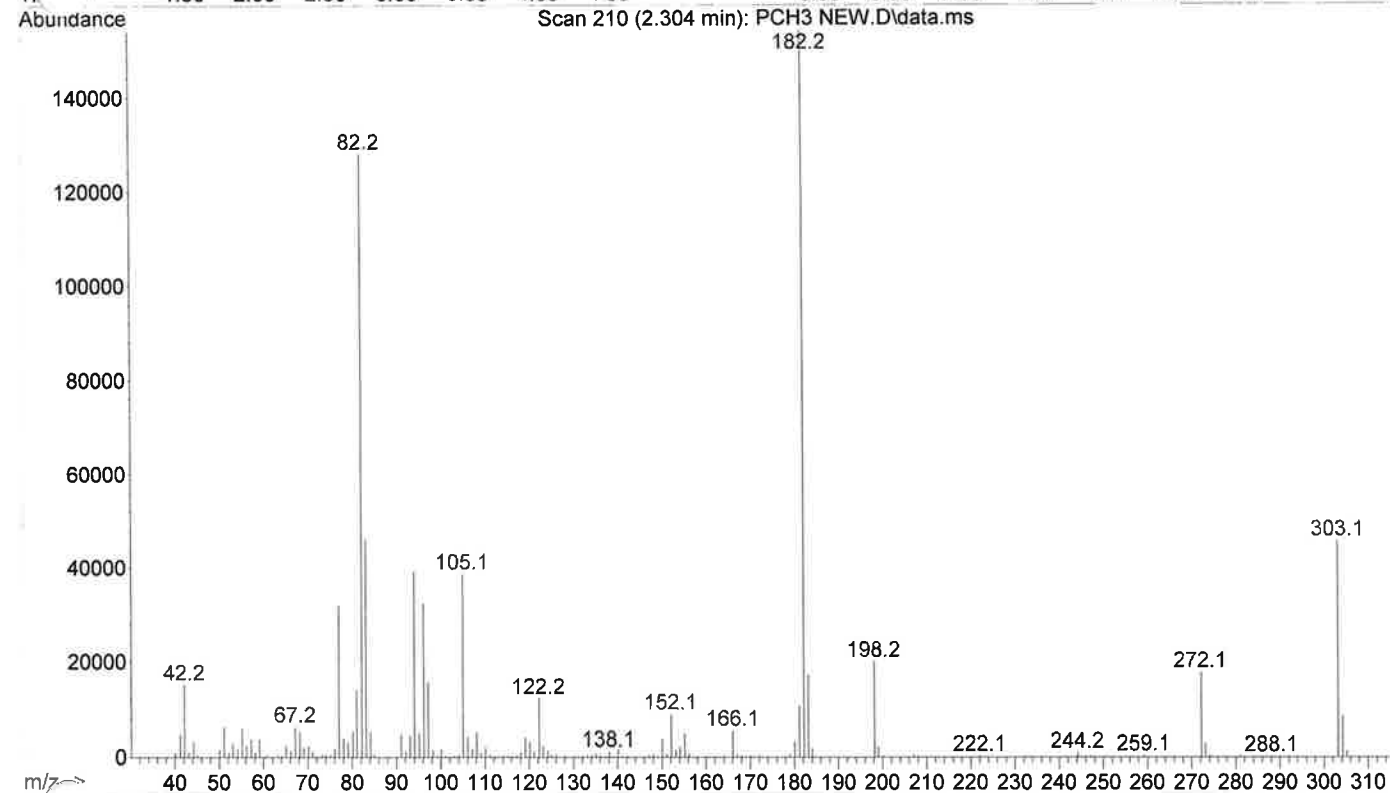
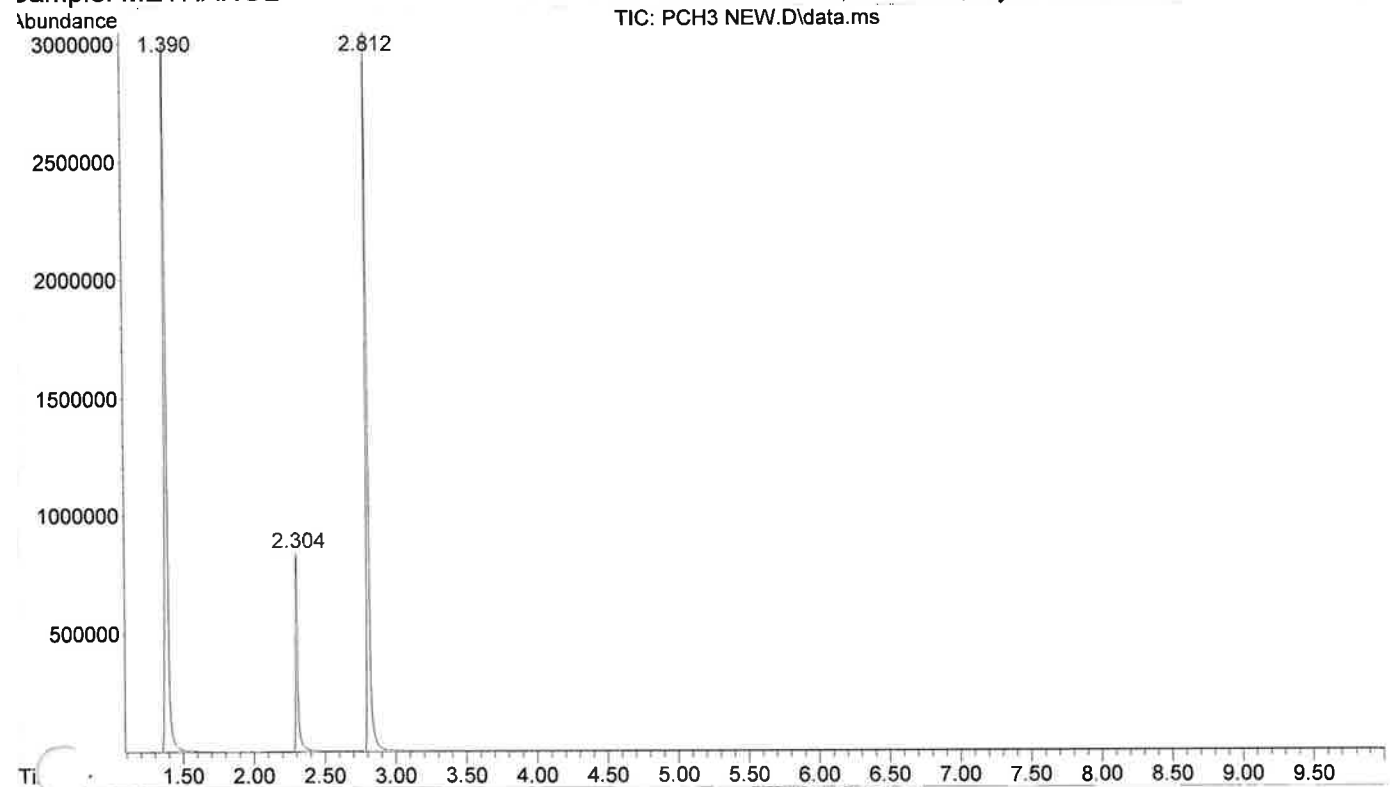
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 11:27

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp

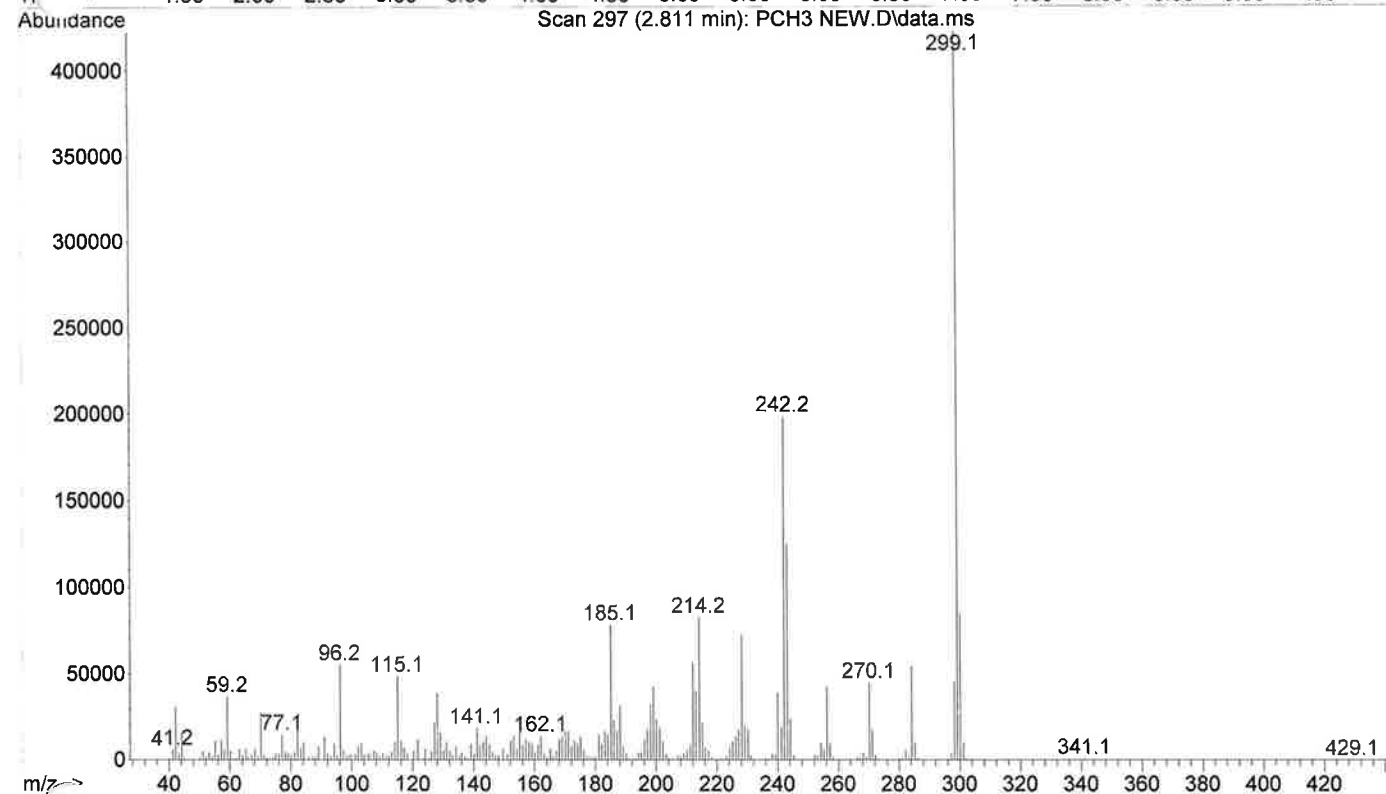
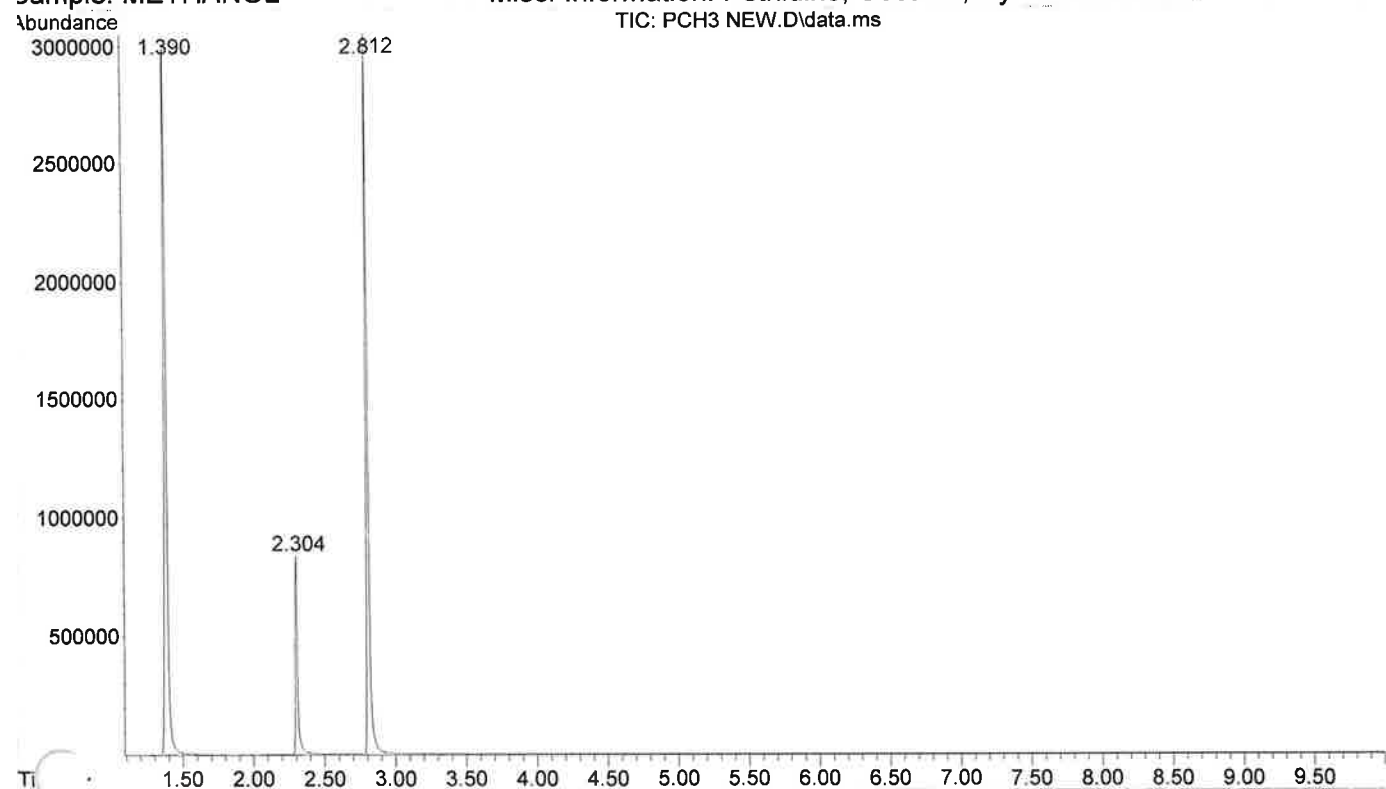
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH3 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 11:27

Path: C:\MSDCHEM\1\METHODS\ASMS\DRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



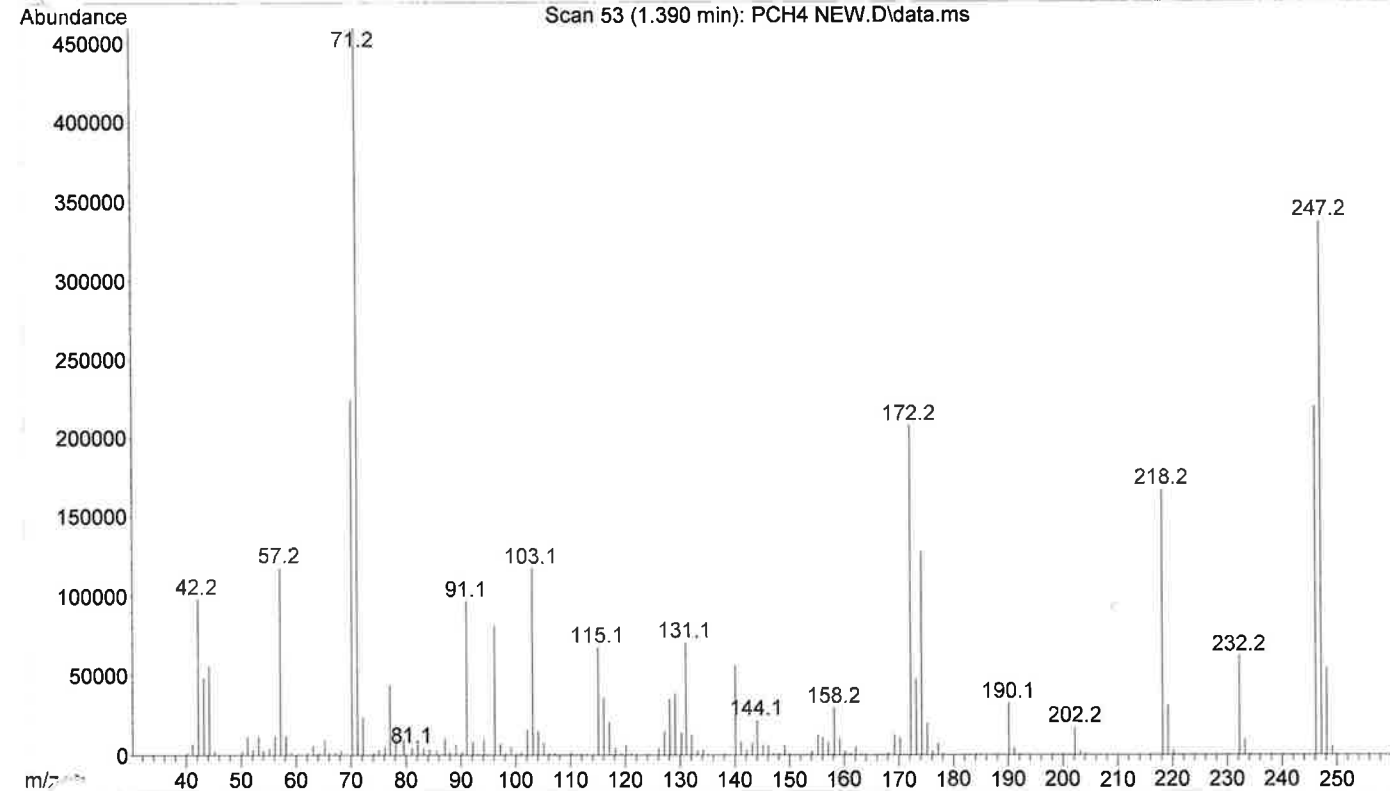
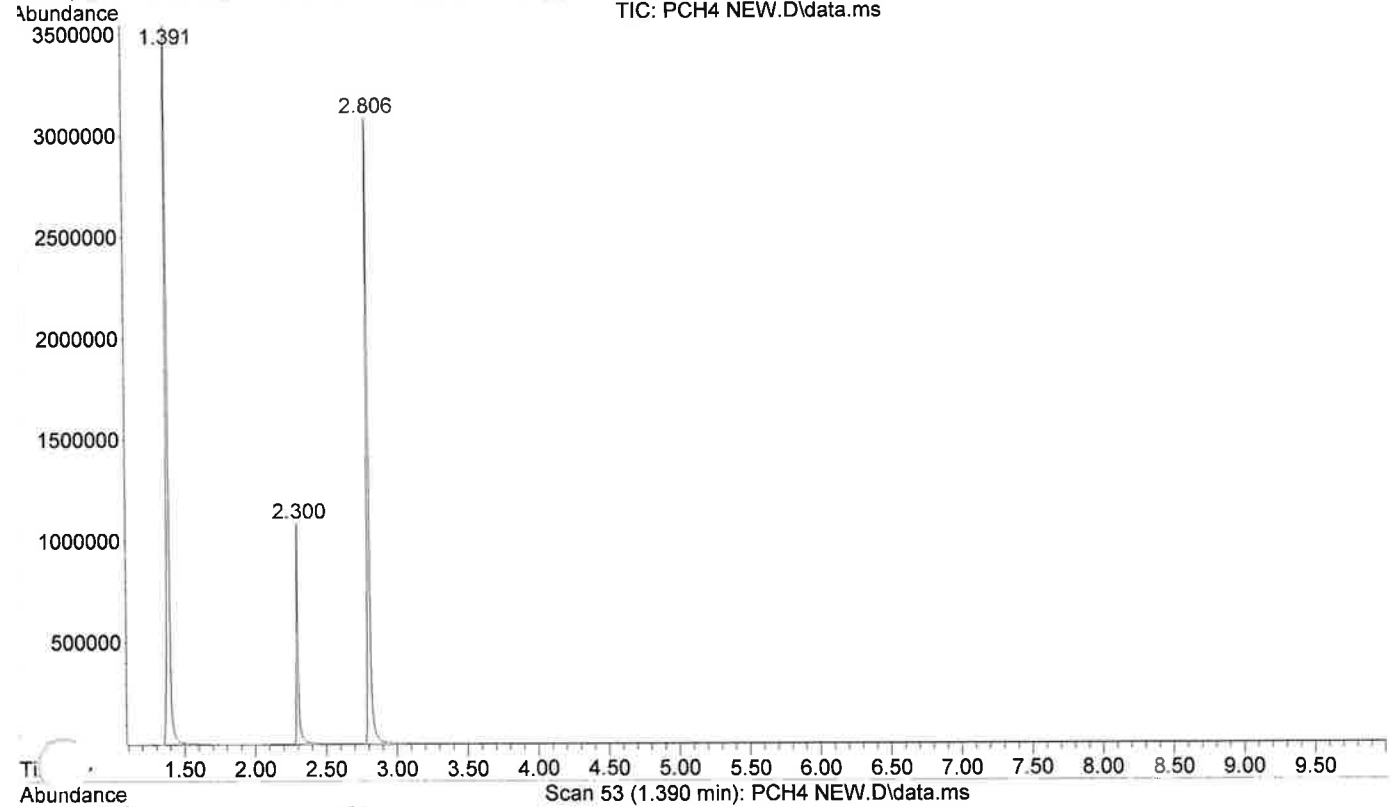
Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH4 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 11:55
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH4 NEW.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH4 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

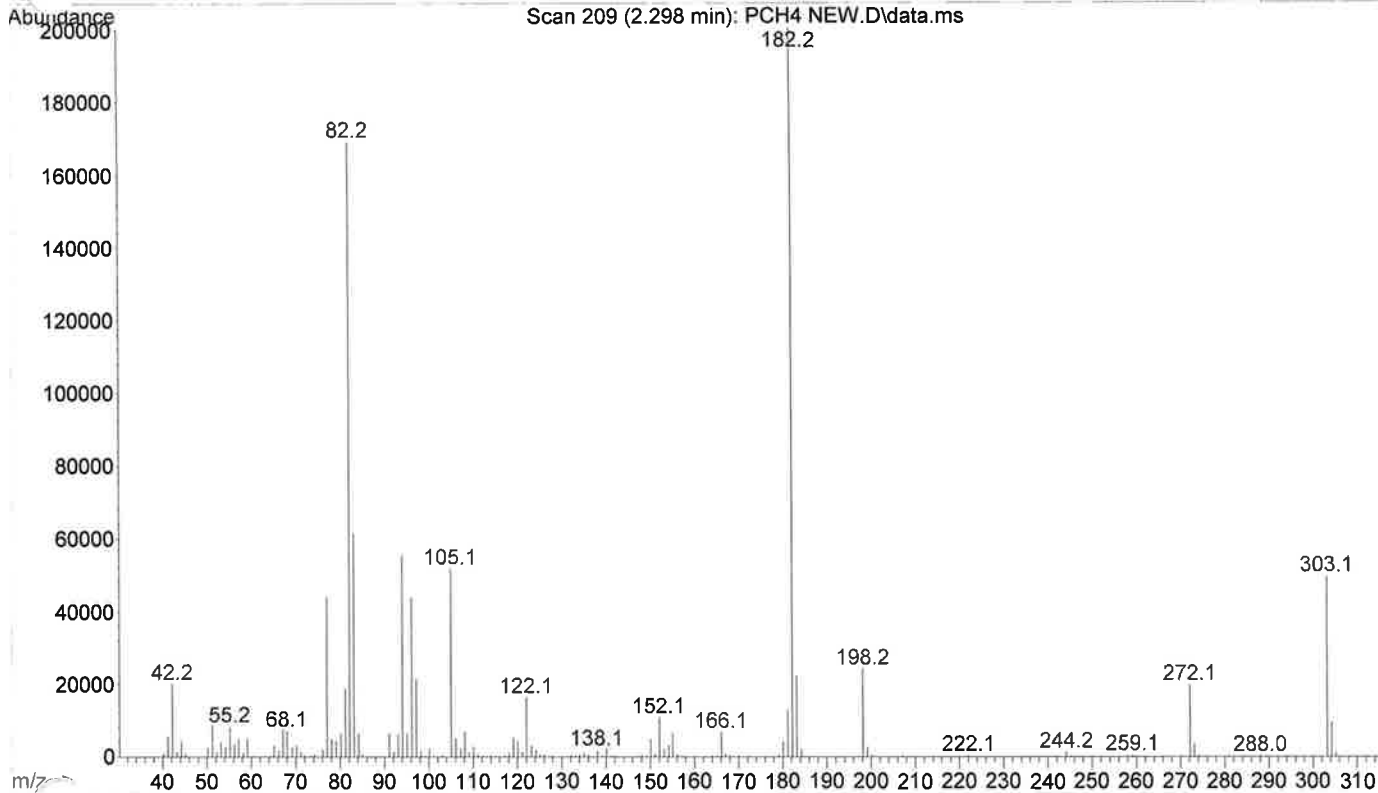
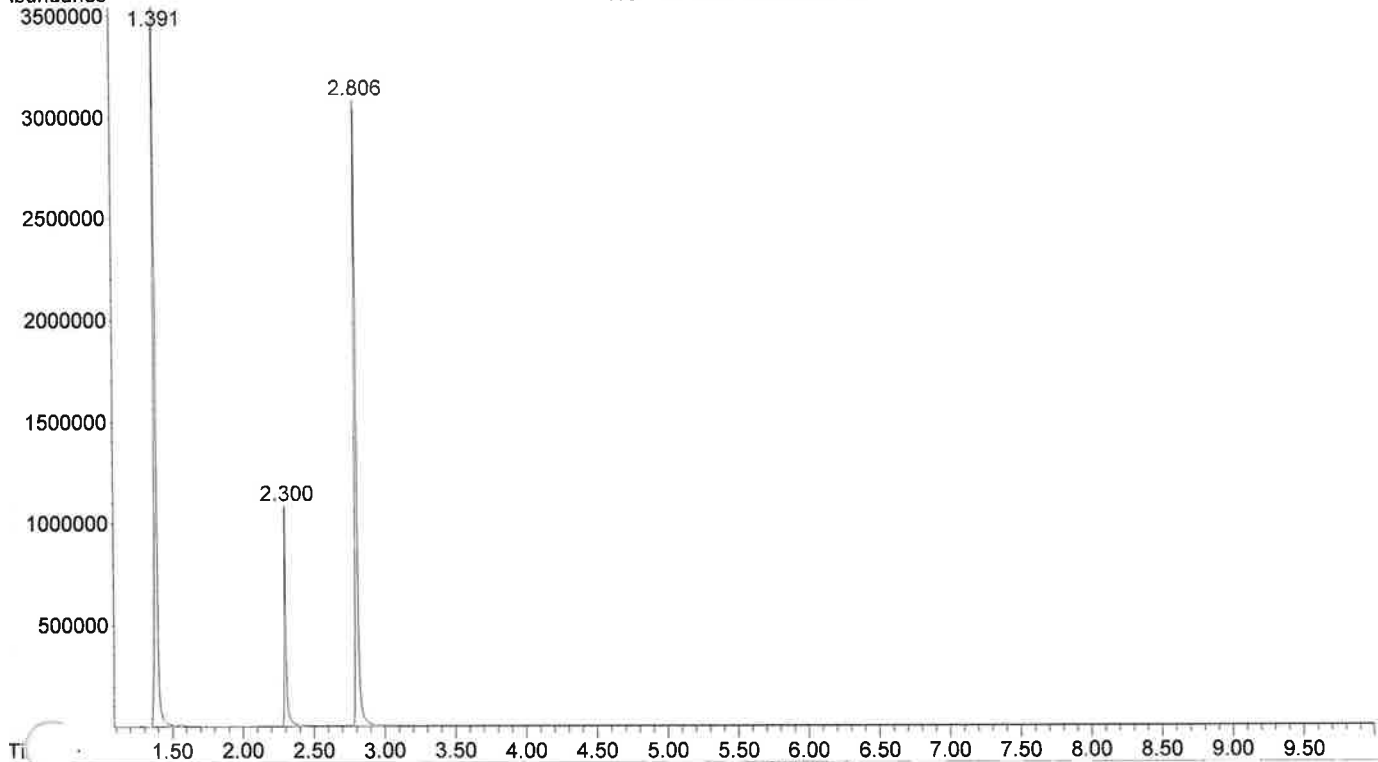
Operator: WILLIAM STANTON on 16 Jun 2017 11:55

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH4 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH4 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

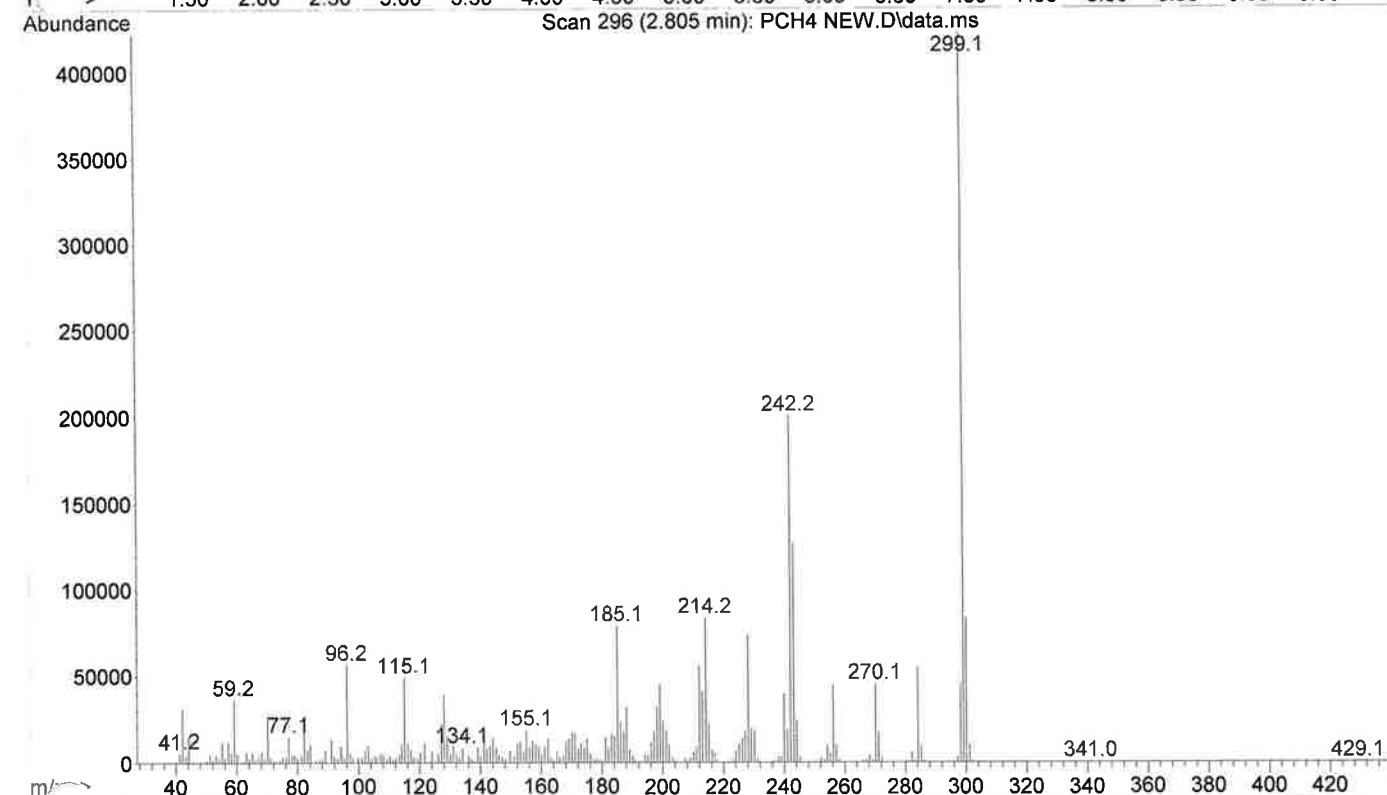
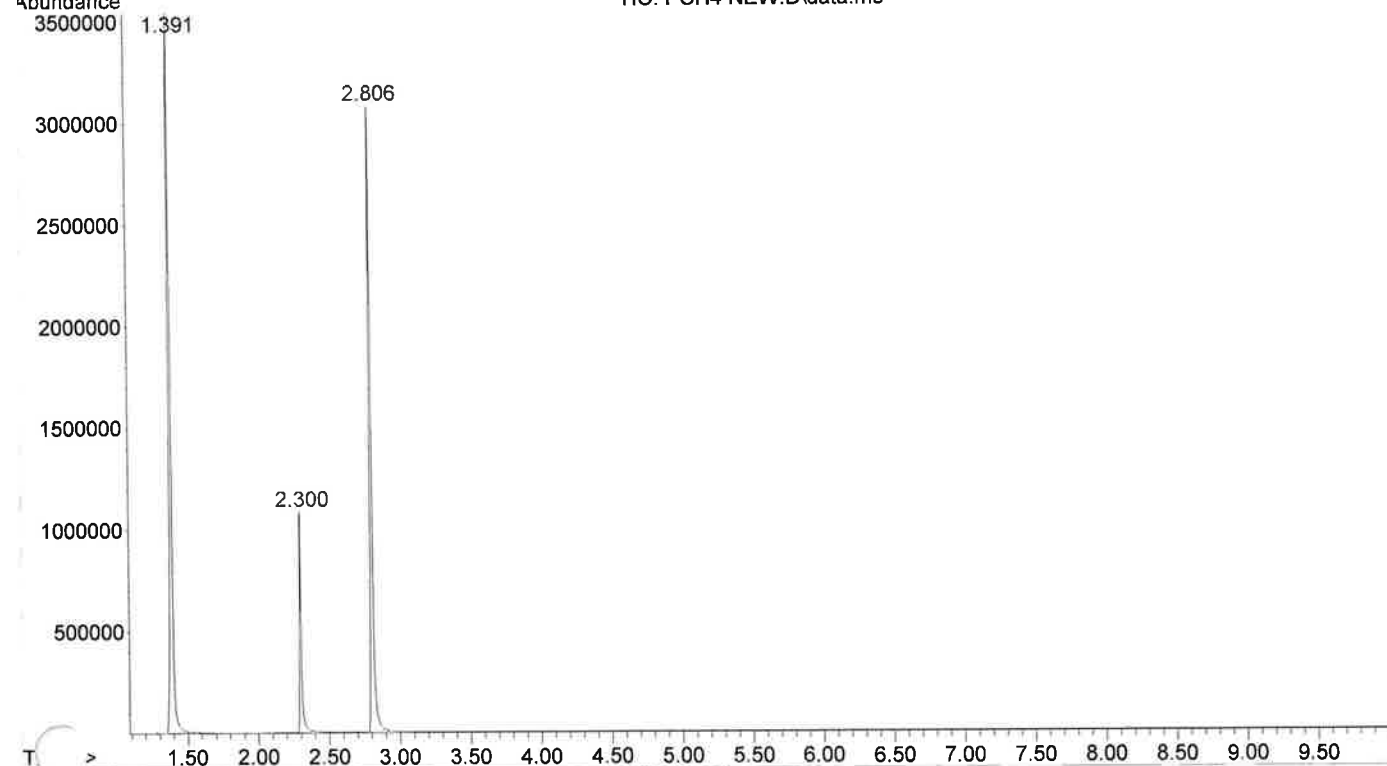
Operator: WILLIAM STANTON on 16 Jun 2017 11:55

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH4 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

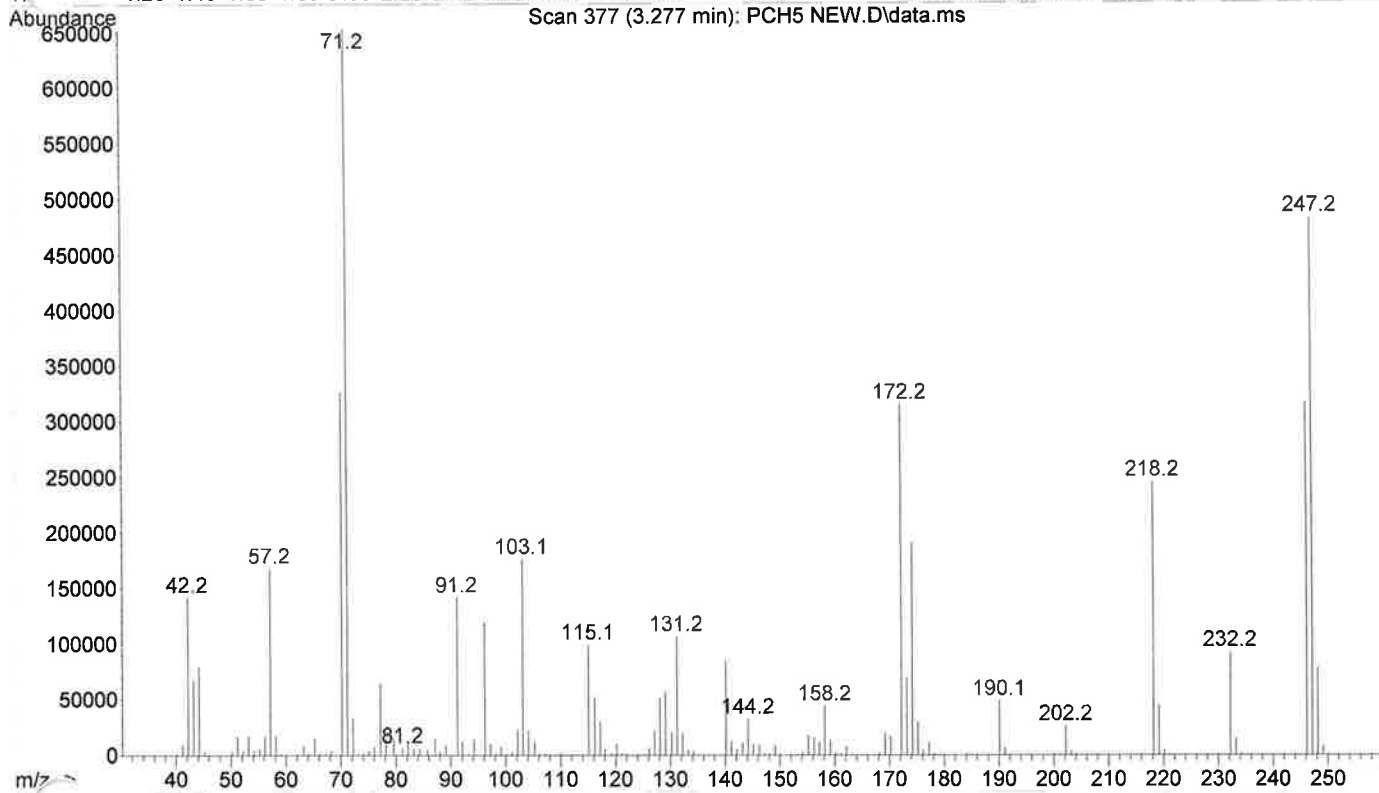
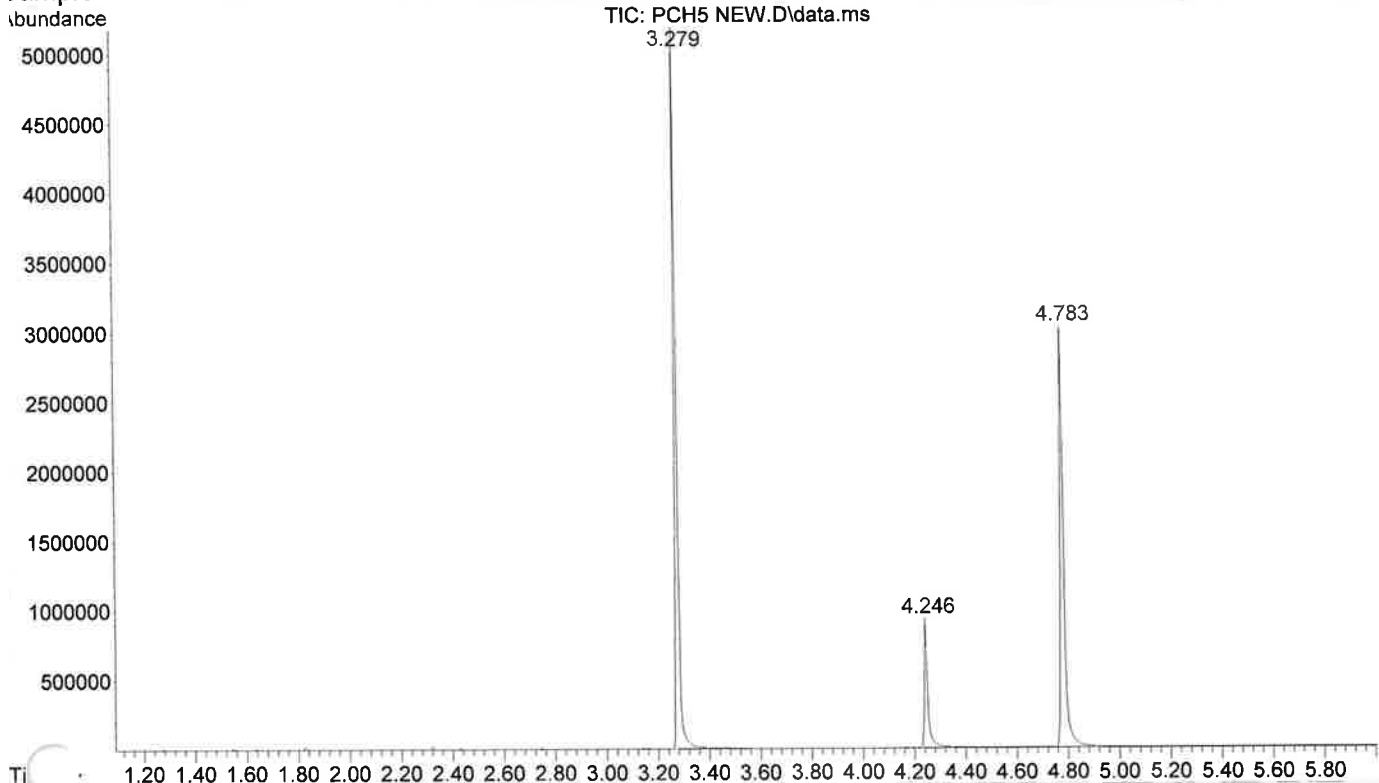
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH5 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 12:20
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

One

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH5 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

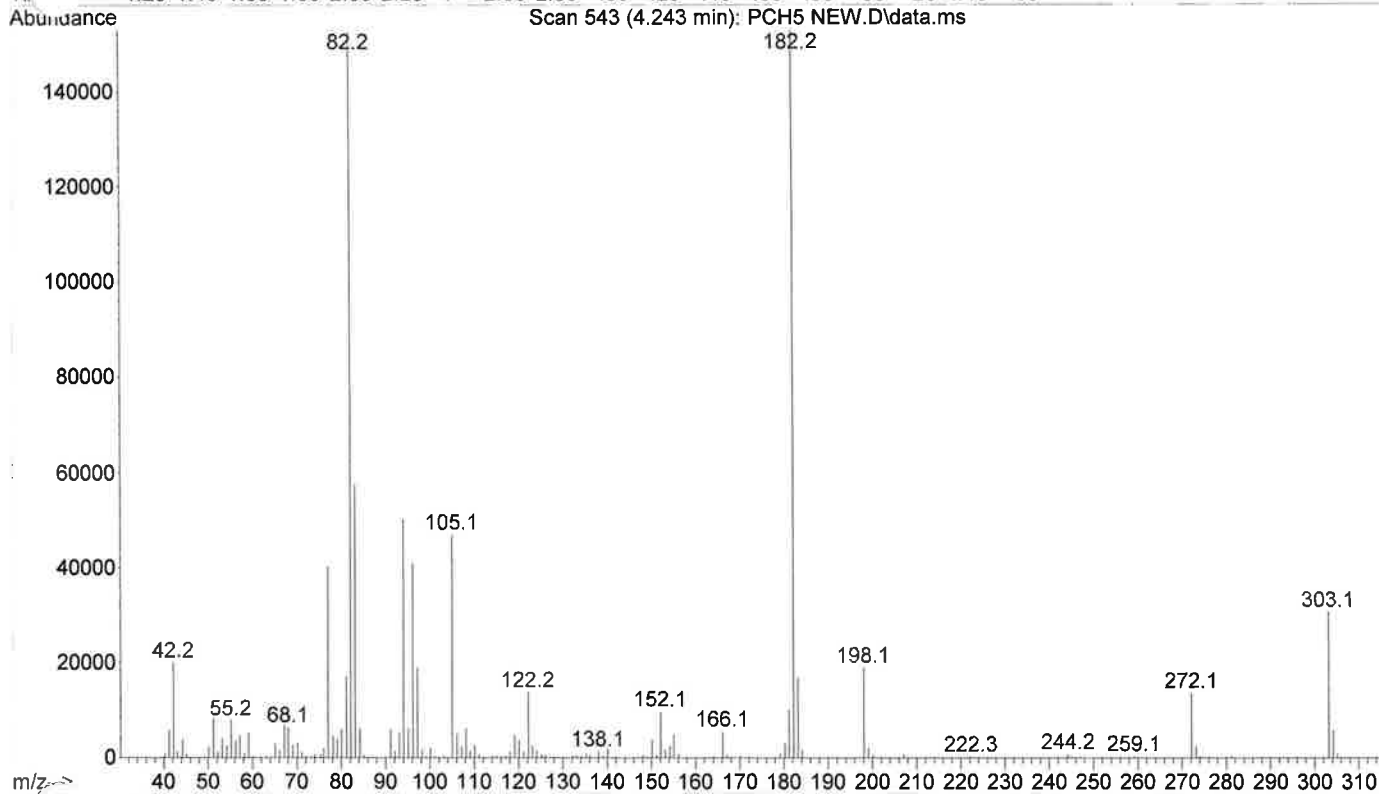
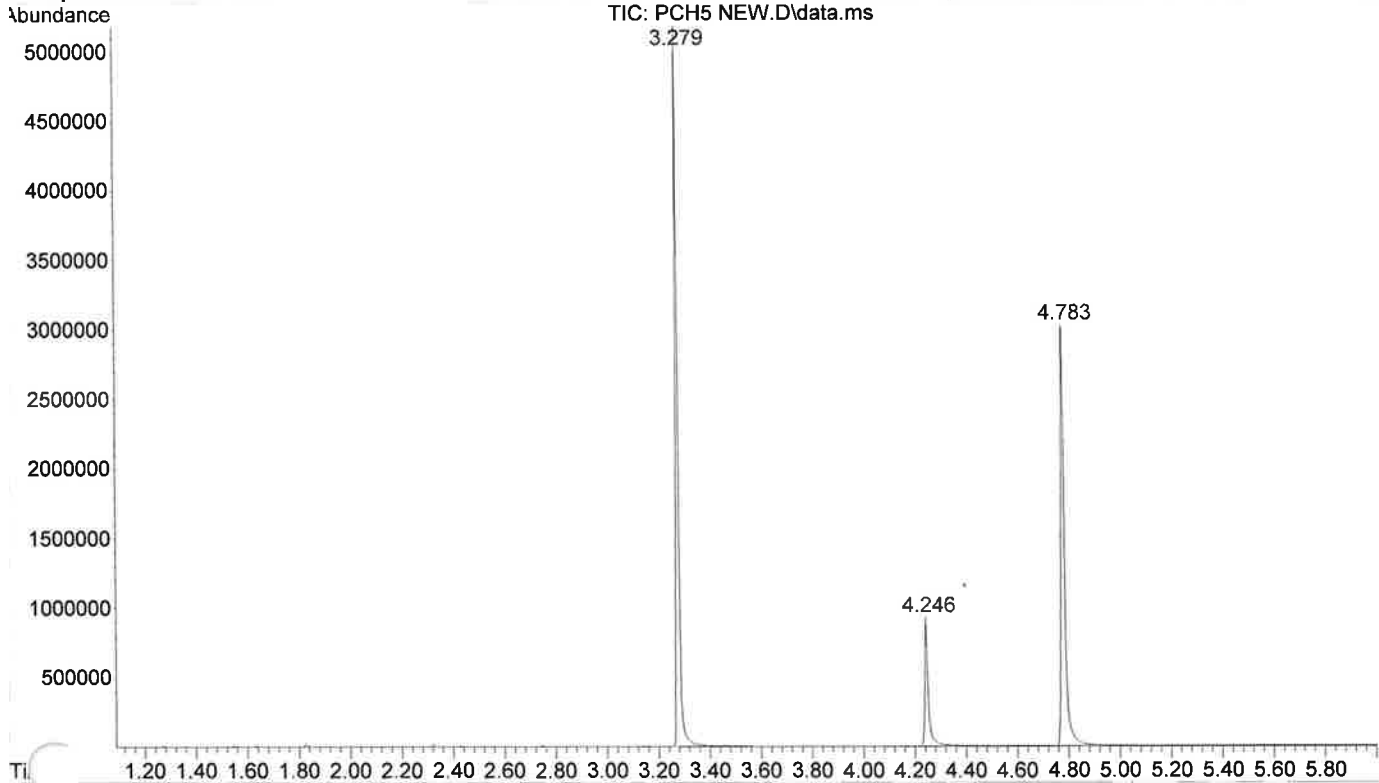
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 12:20

Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp

70.00 280

One

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH5 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

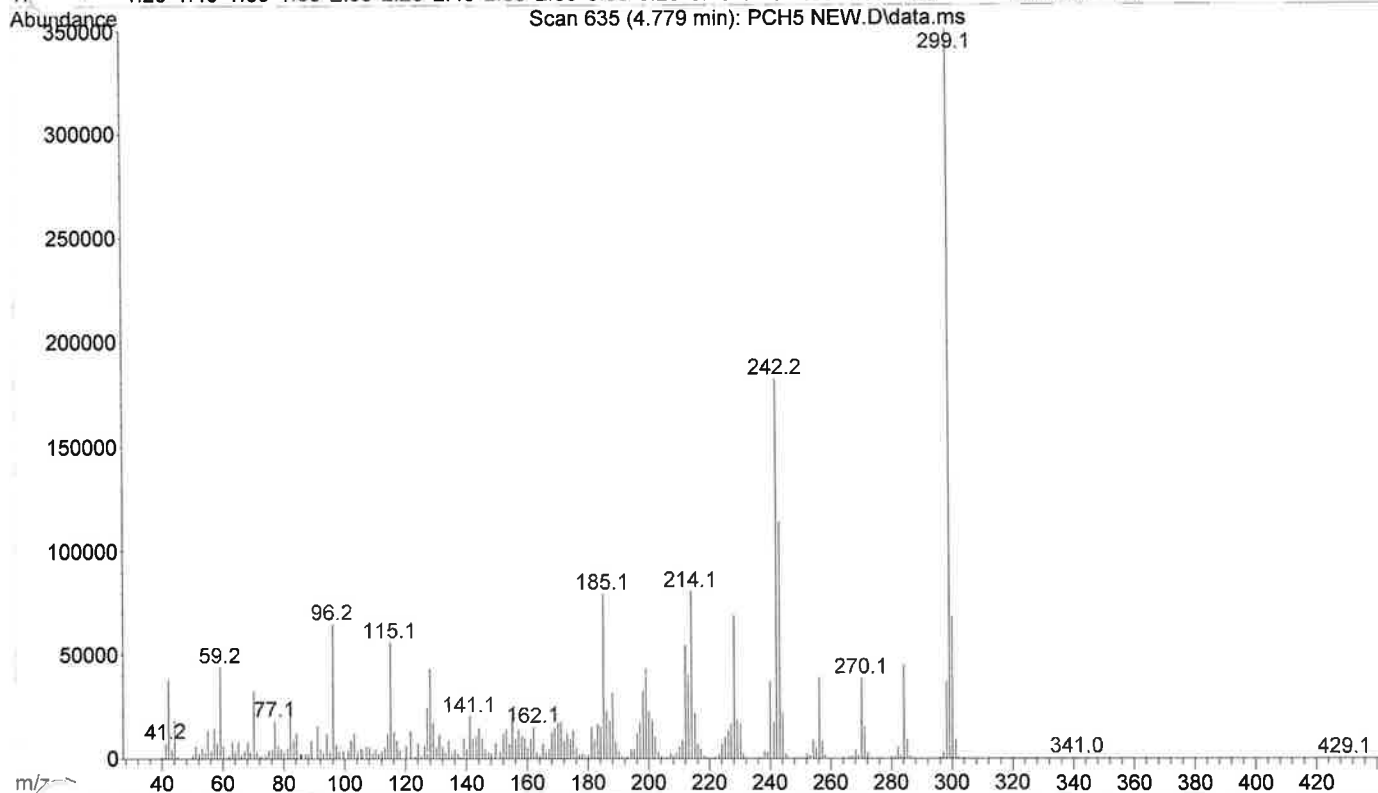
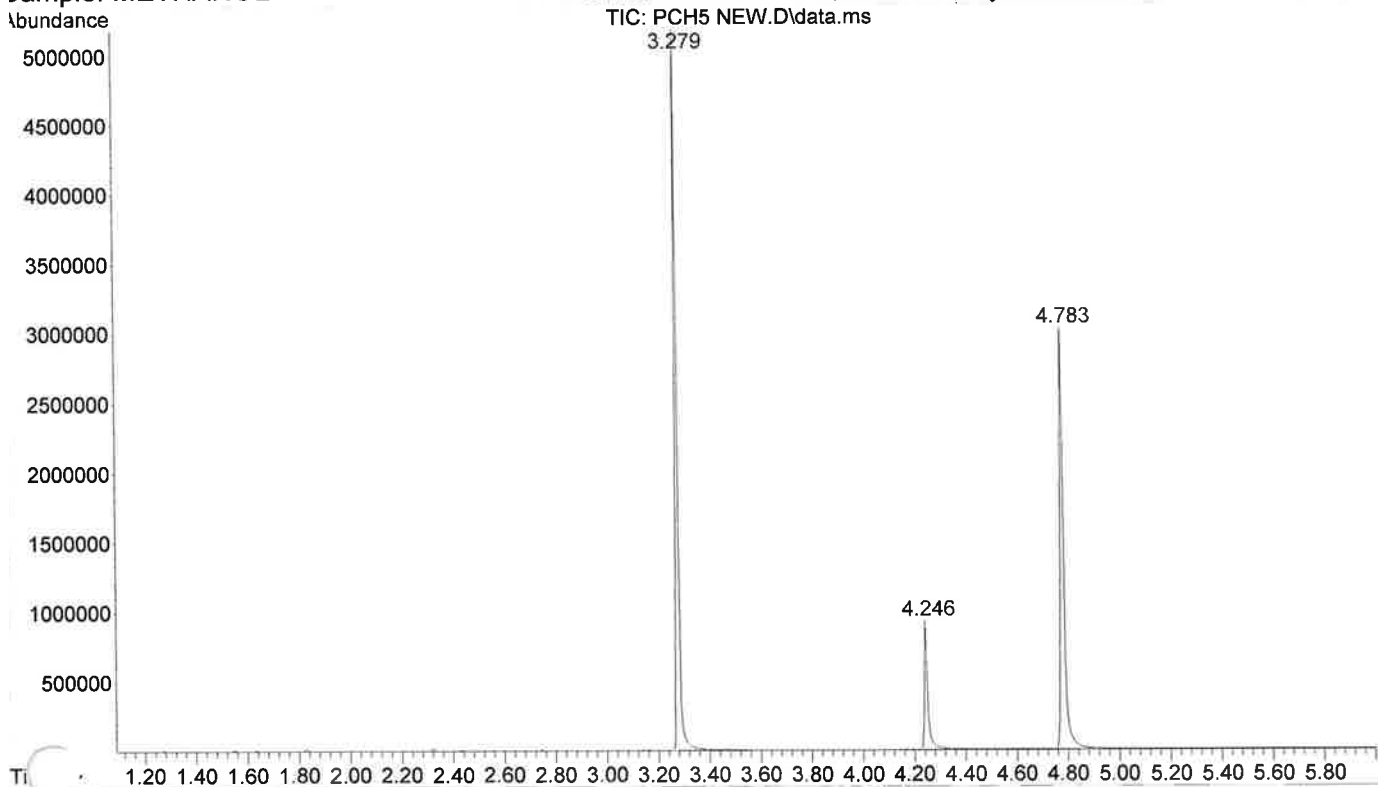
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 12:20

Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp

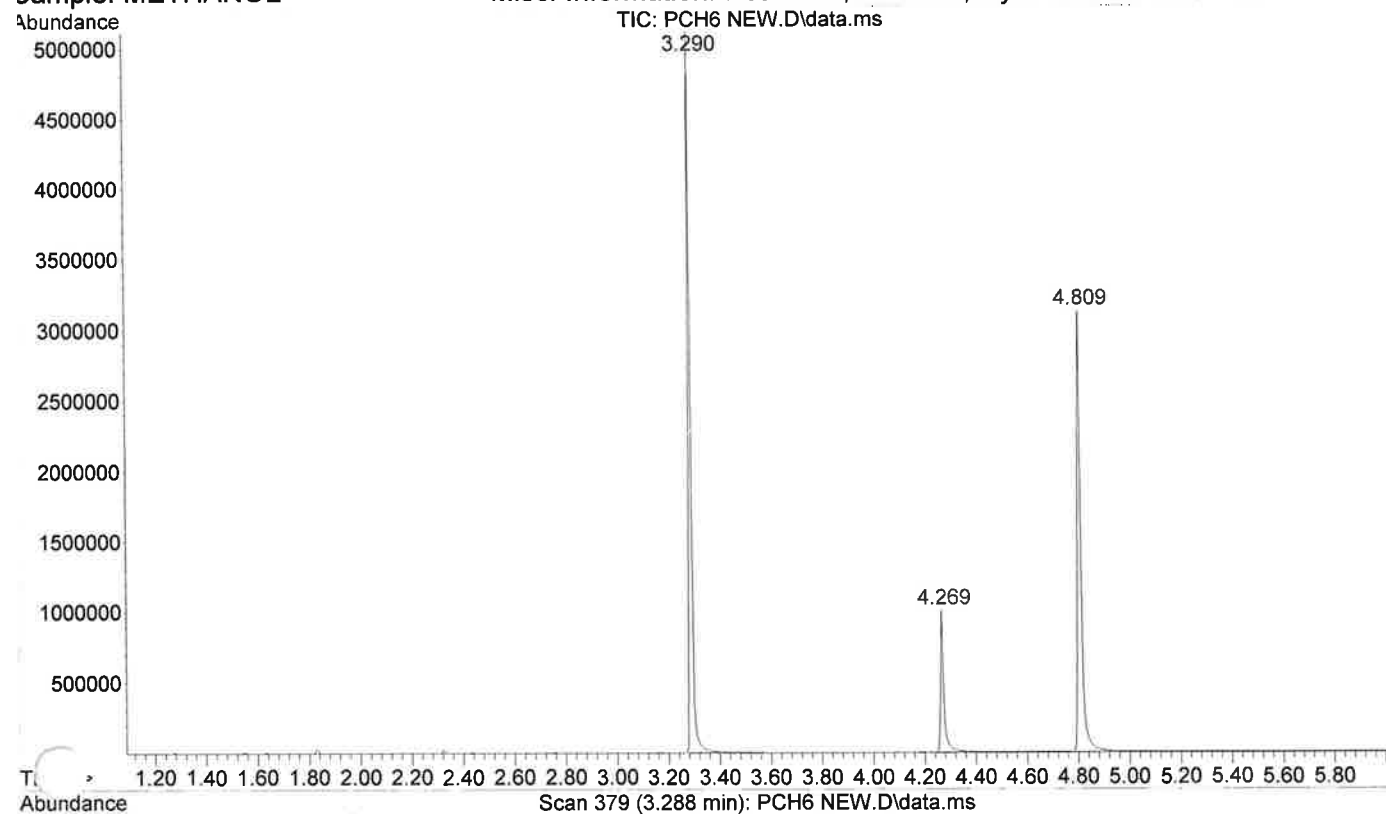
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH6 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 12:41
Vod: C:\MSDCHEM\1\METHODS\ASMS100TR.M

lme

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



nn: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH6 NEW.DS

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

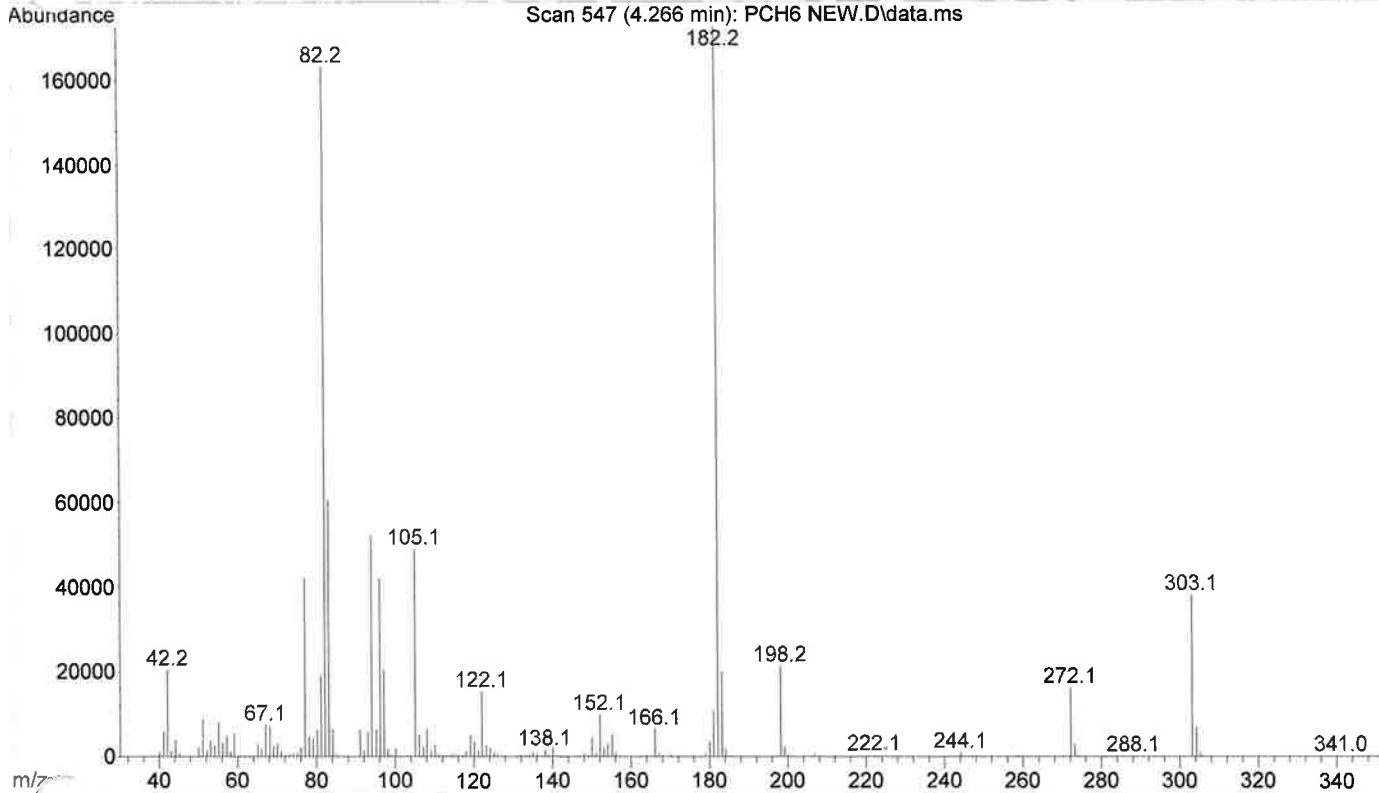
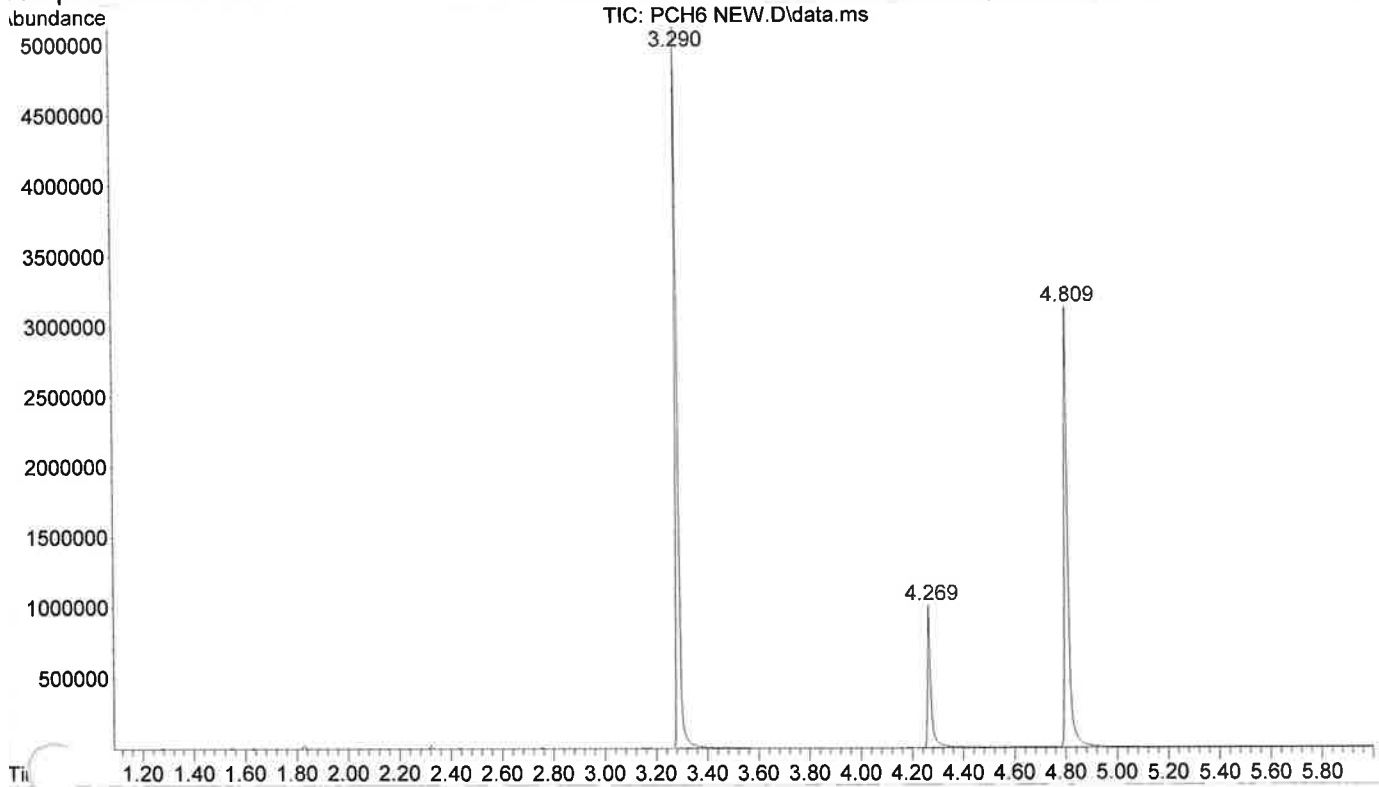
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 12:41

Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH6 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

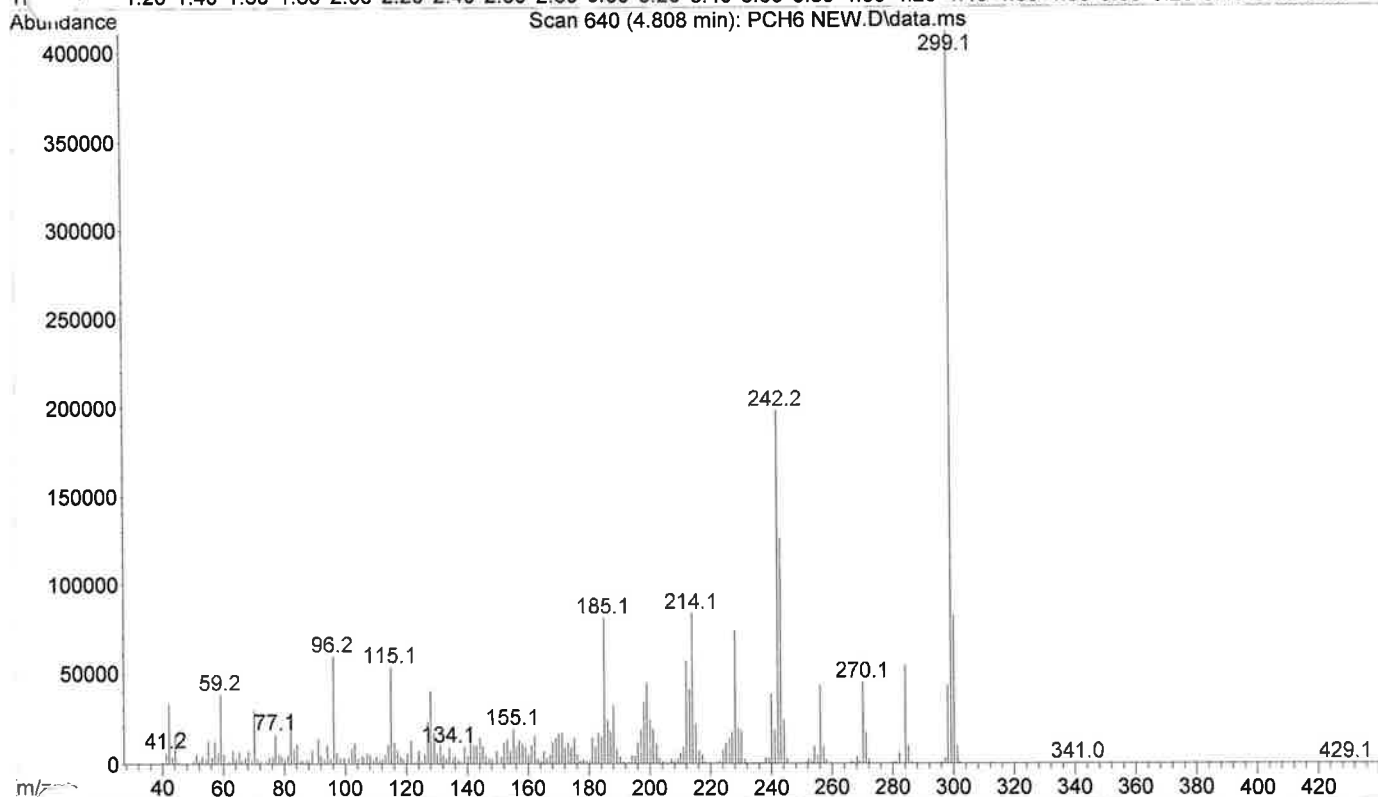
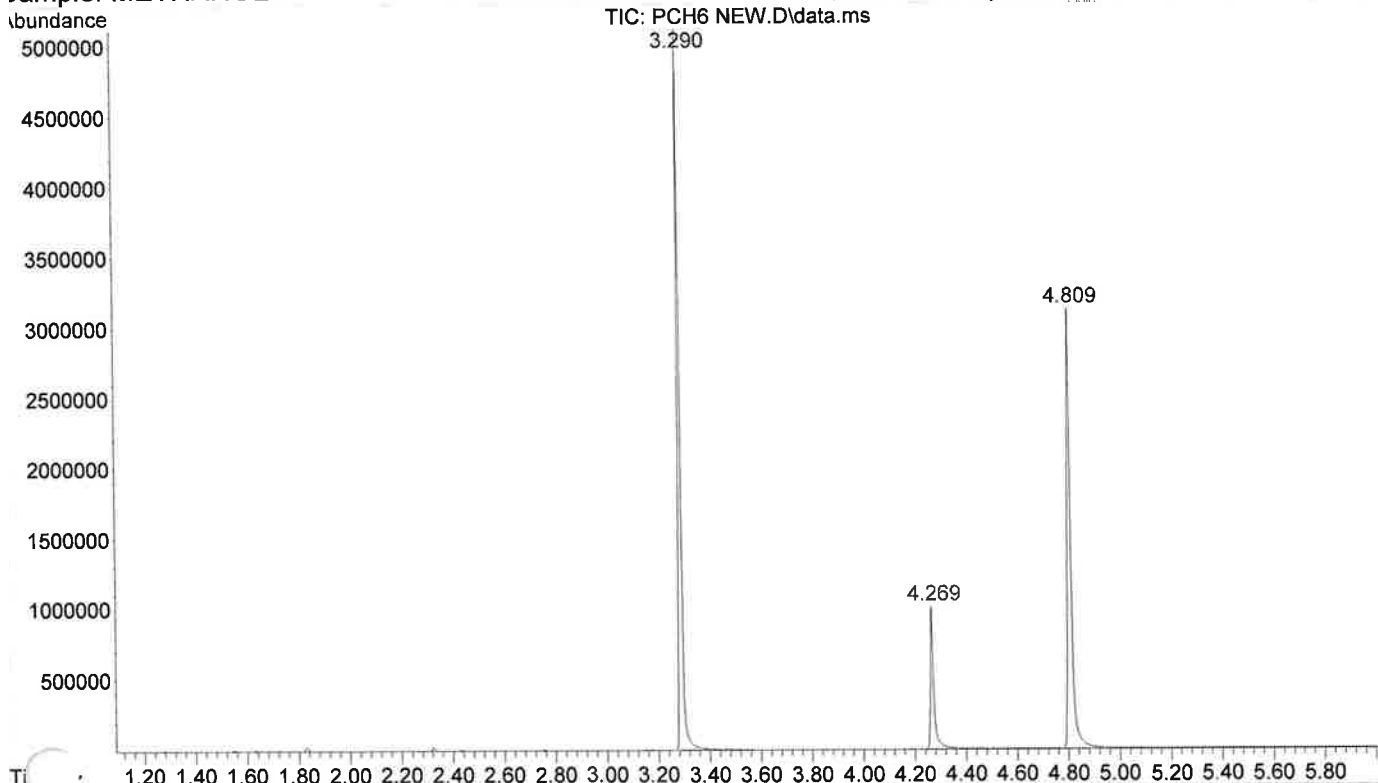
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 12:41

Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH7 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

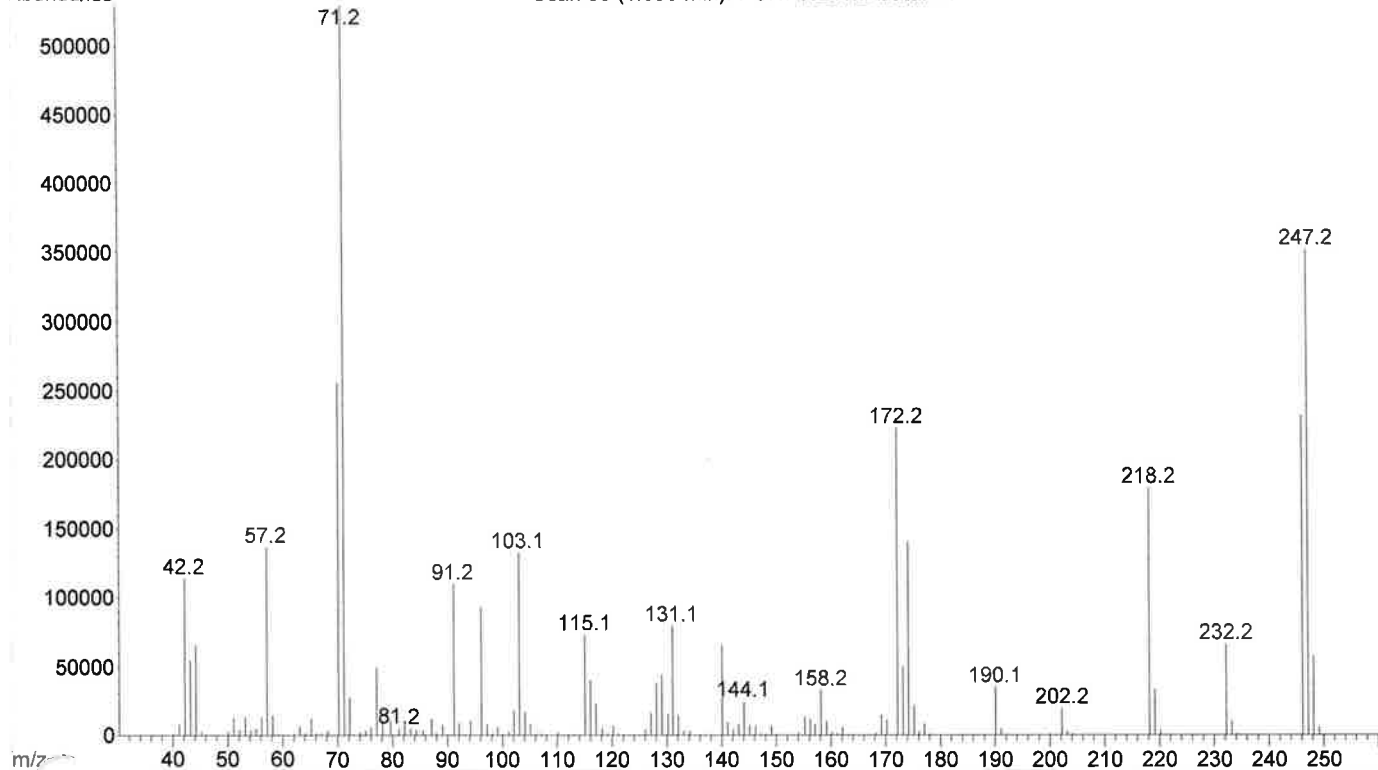
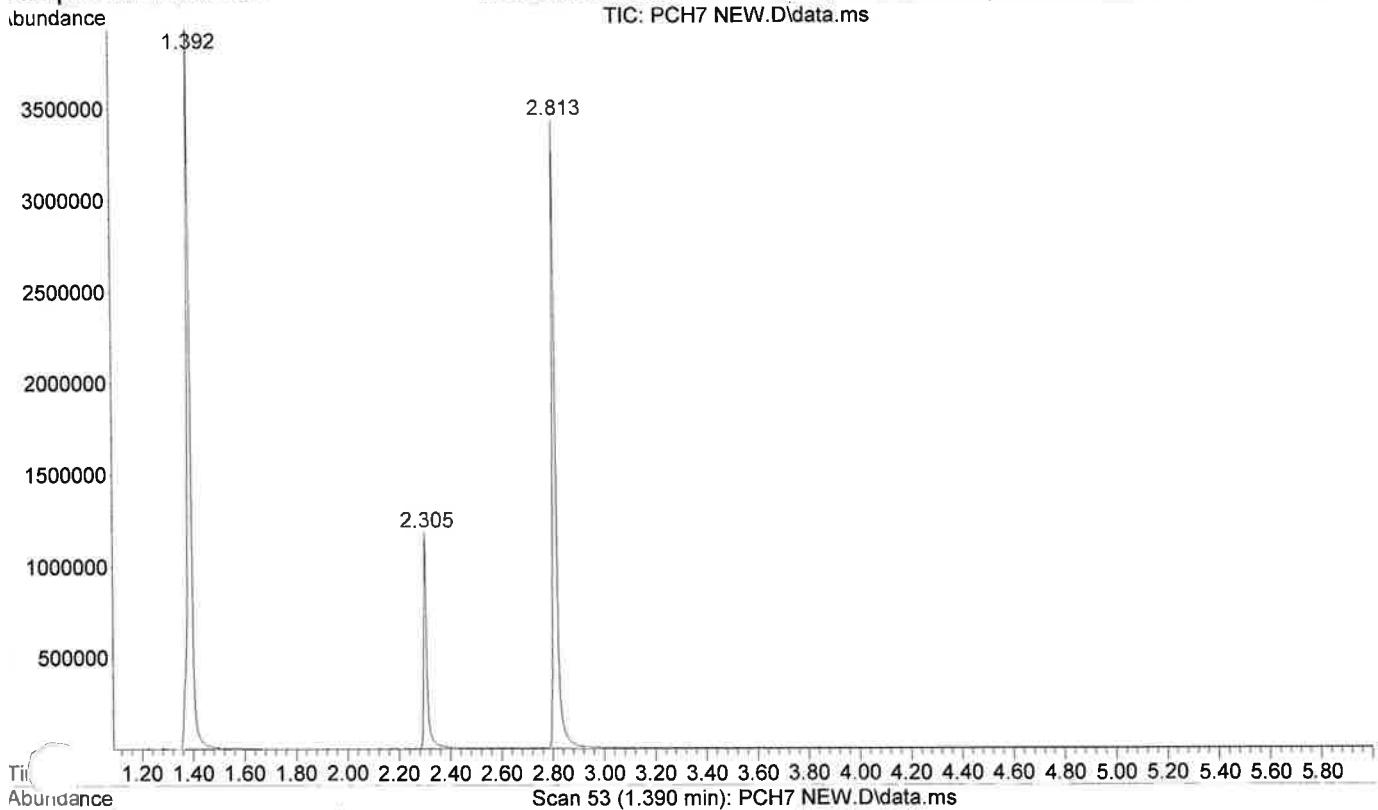
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 13:00

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Conditions: 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH7 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

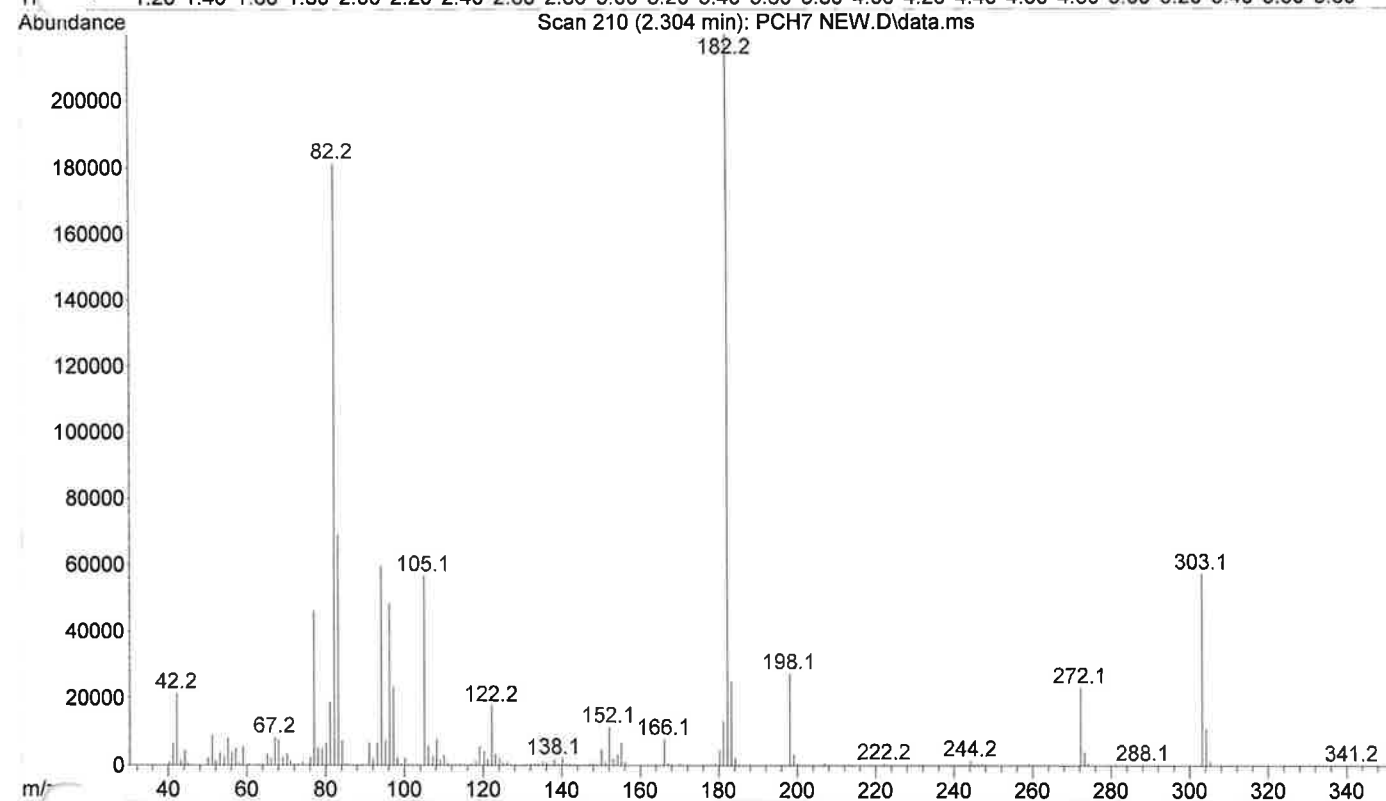
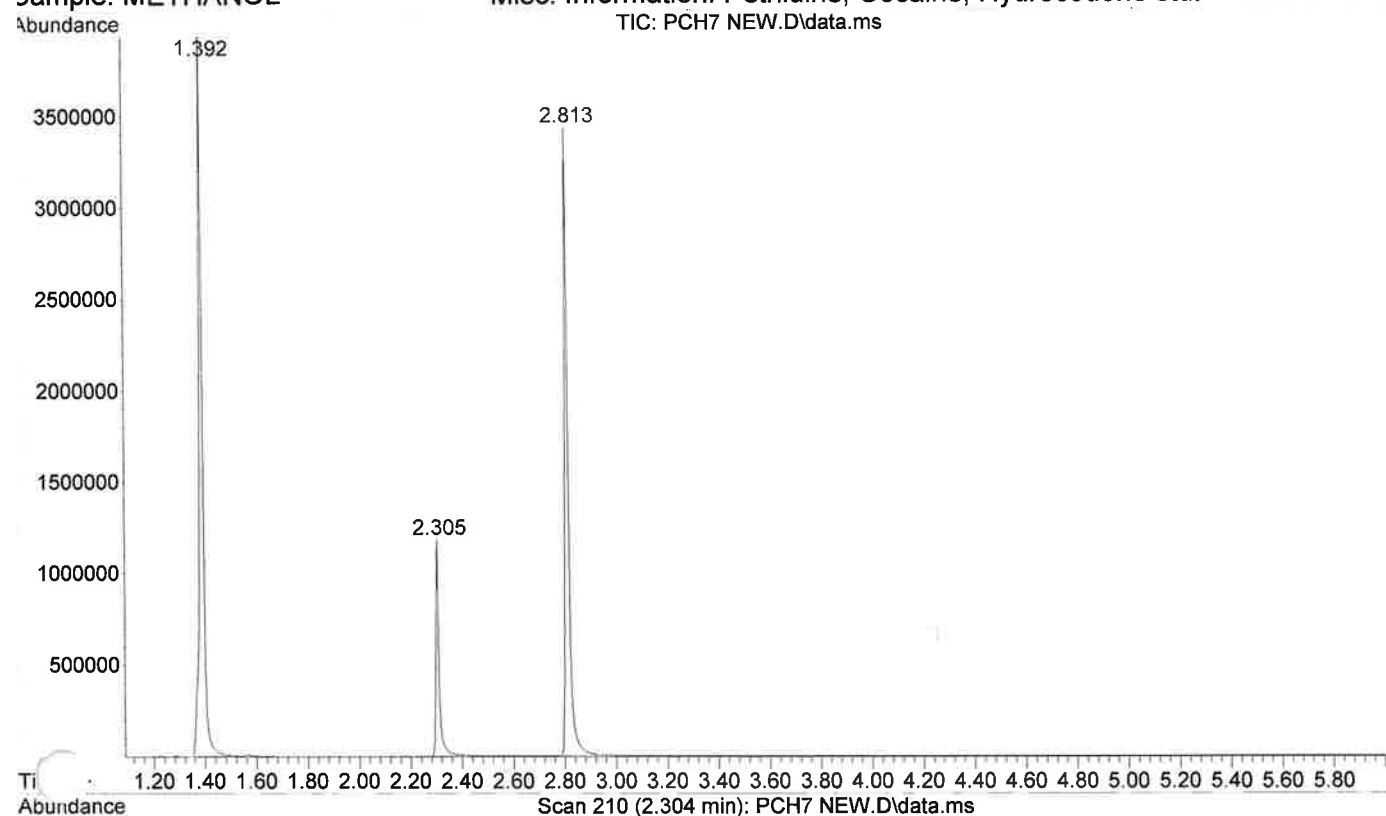
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 13:00

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH7 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

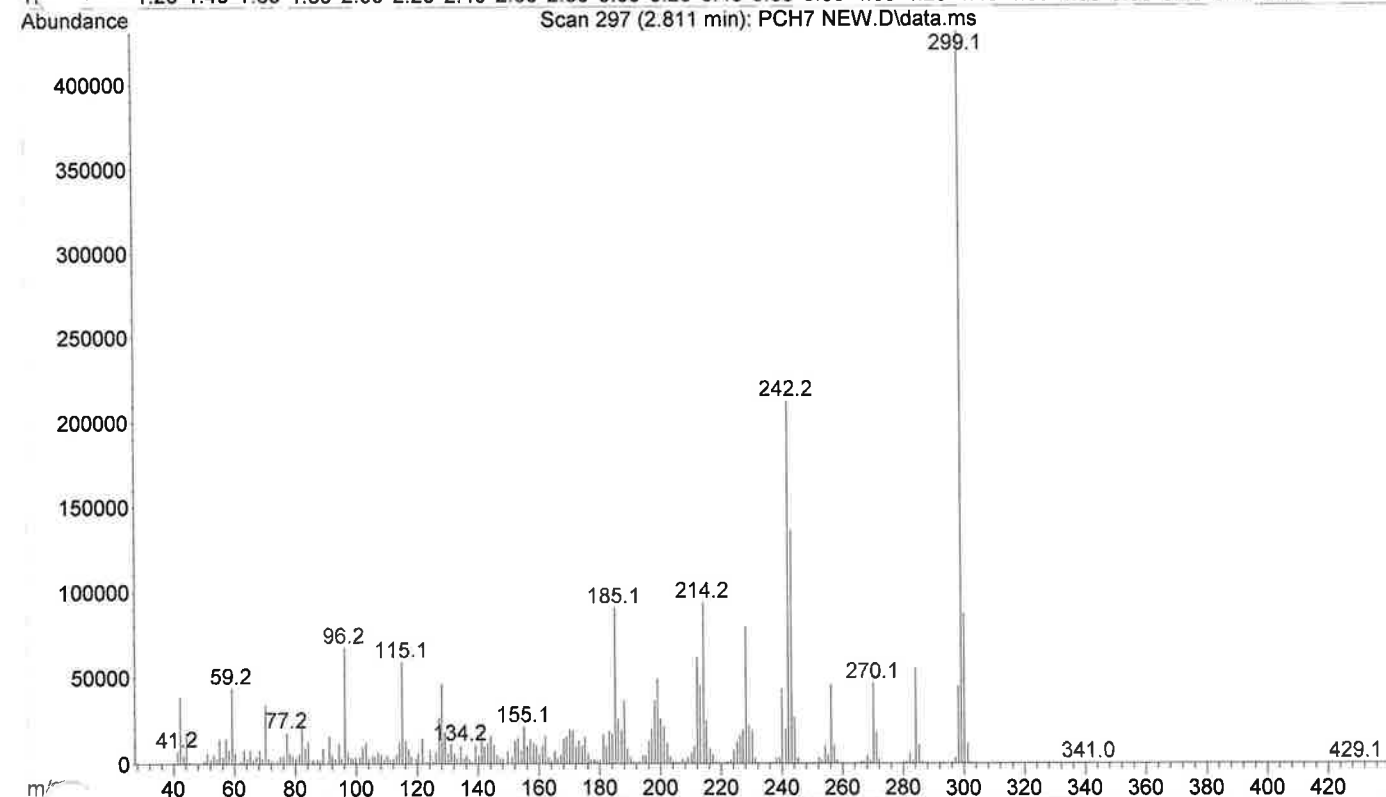
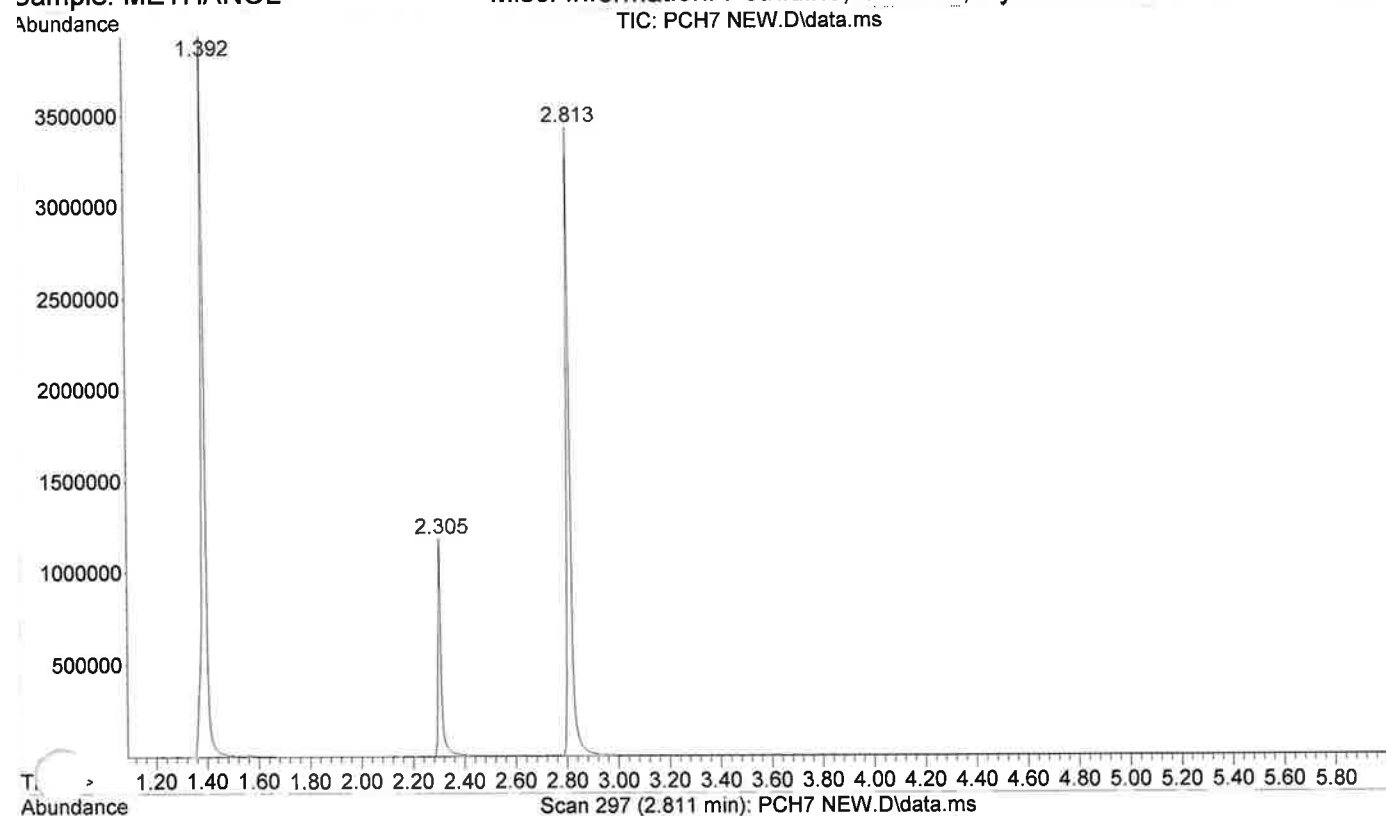
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 13:00

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
 Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
 Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
 70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH8 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

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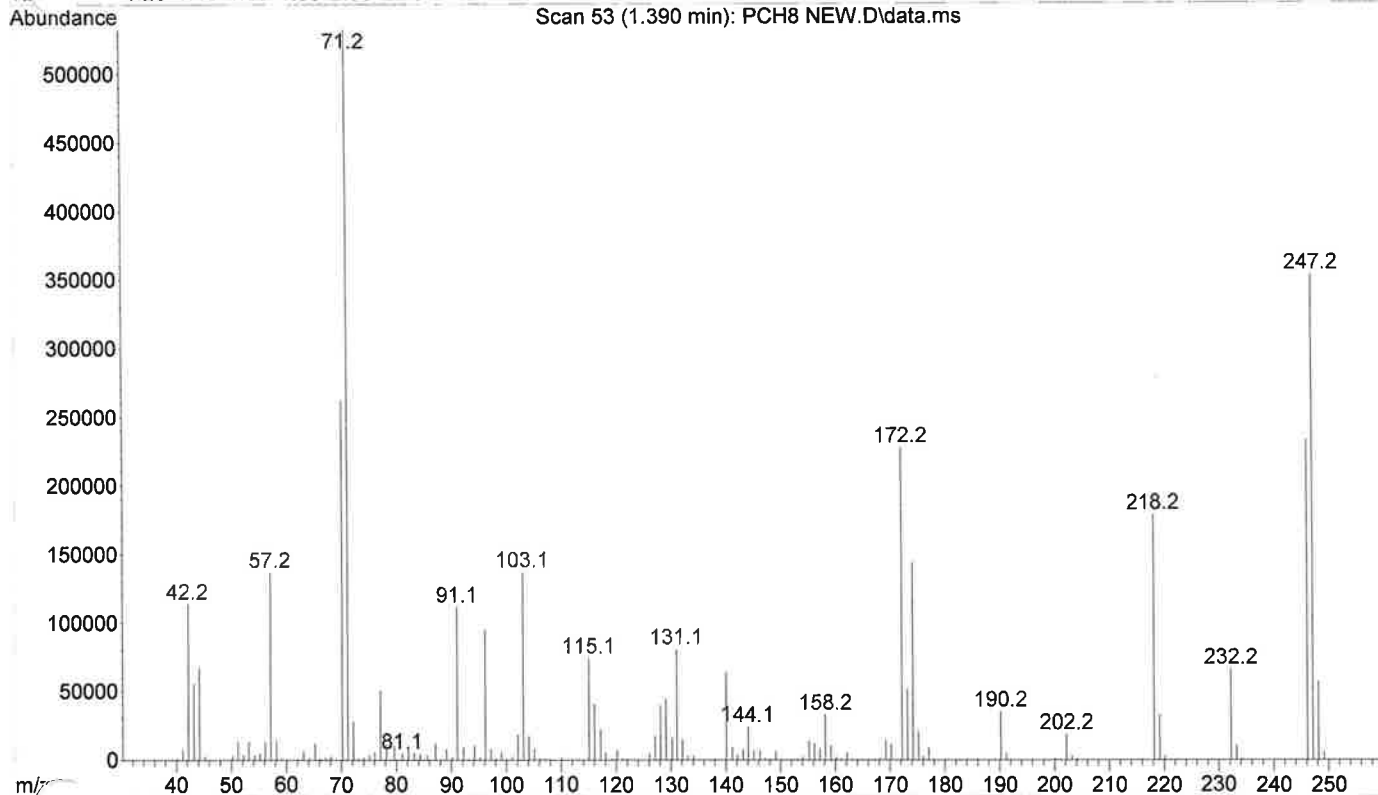
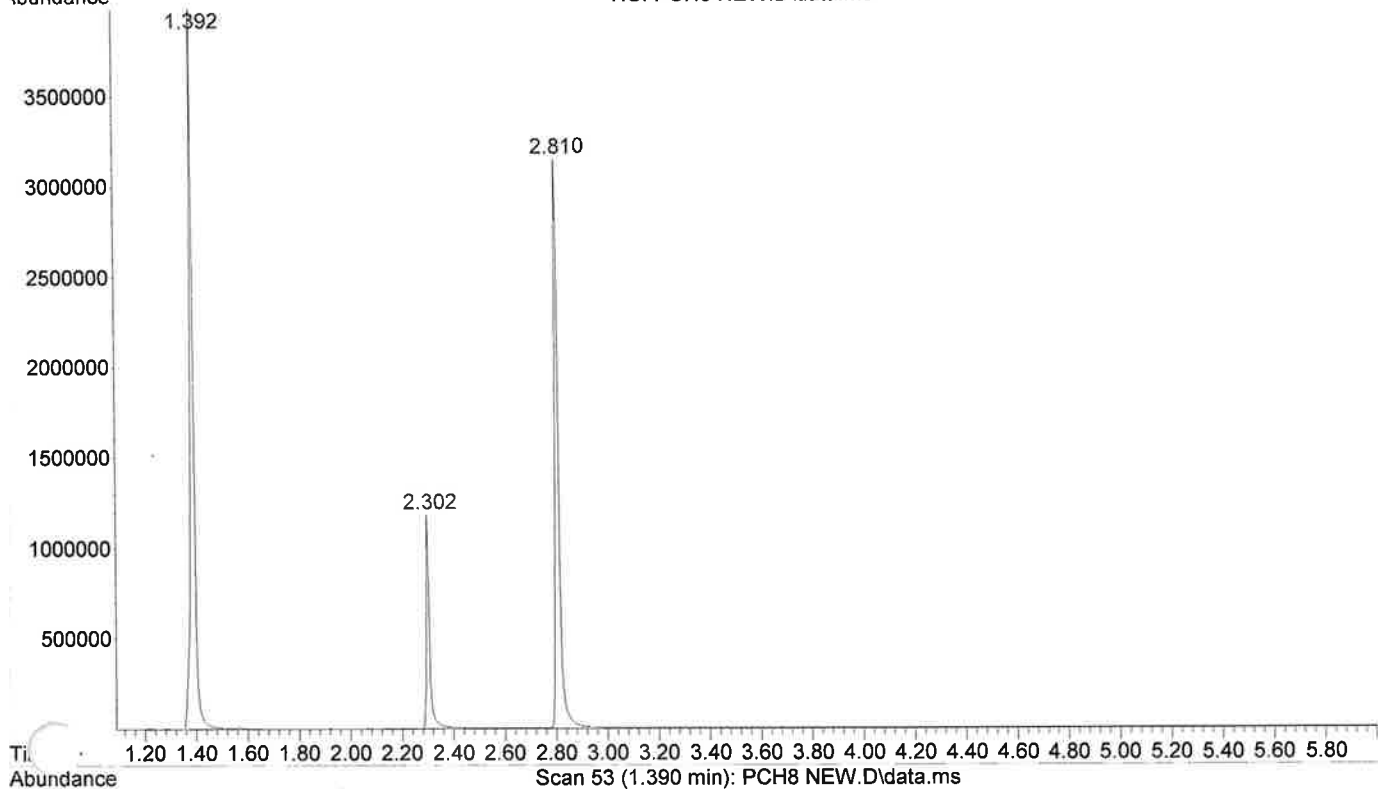
Operator: WILLIAM STANTON on 16 Jun 2017 13:20

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH8 NEW.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH8 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

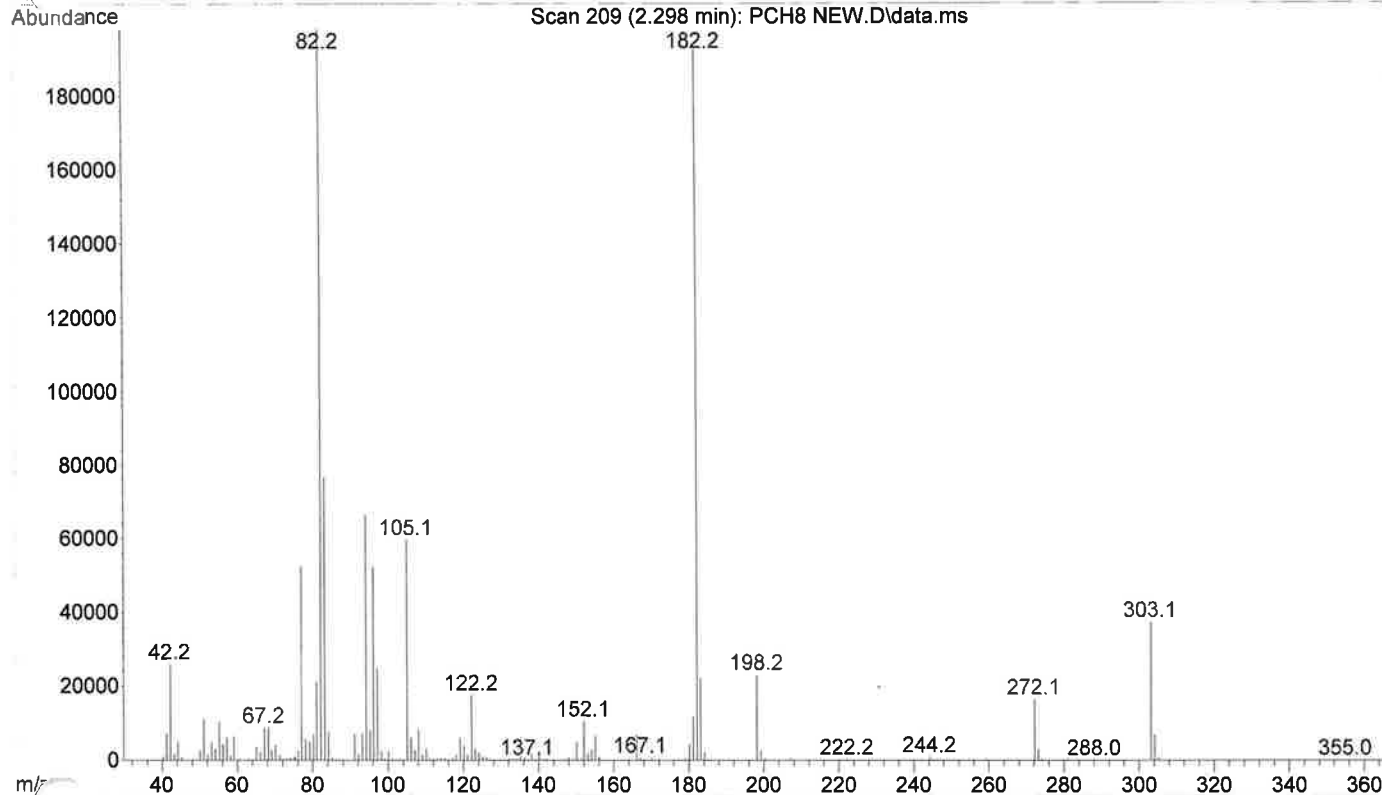
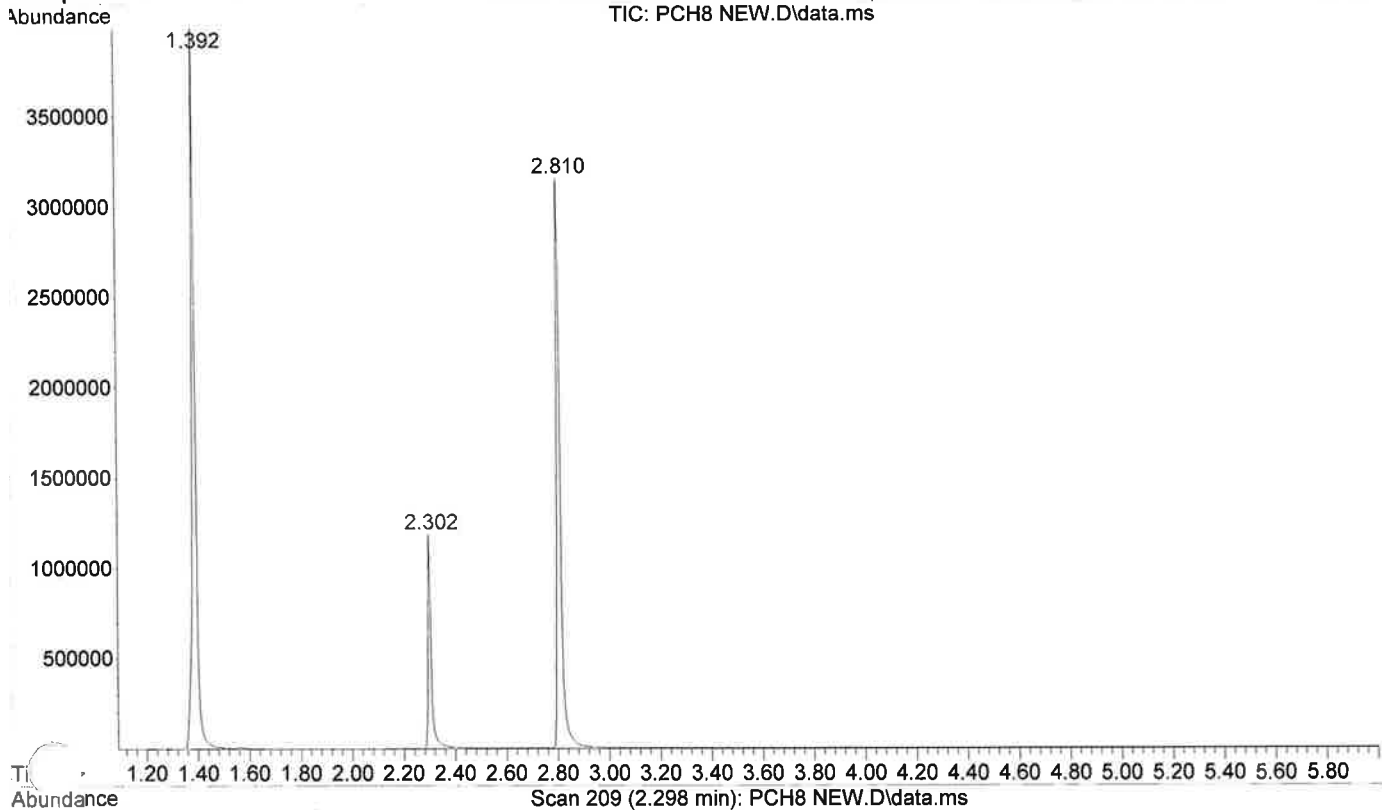
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 13:20

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH8 NEW.D

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Instrument: Graceland (model: 5973N Serial number: US03960484)

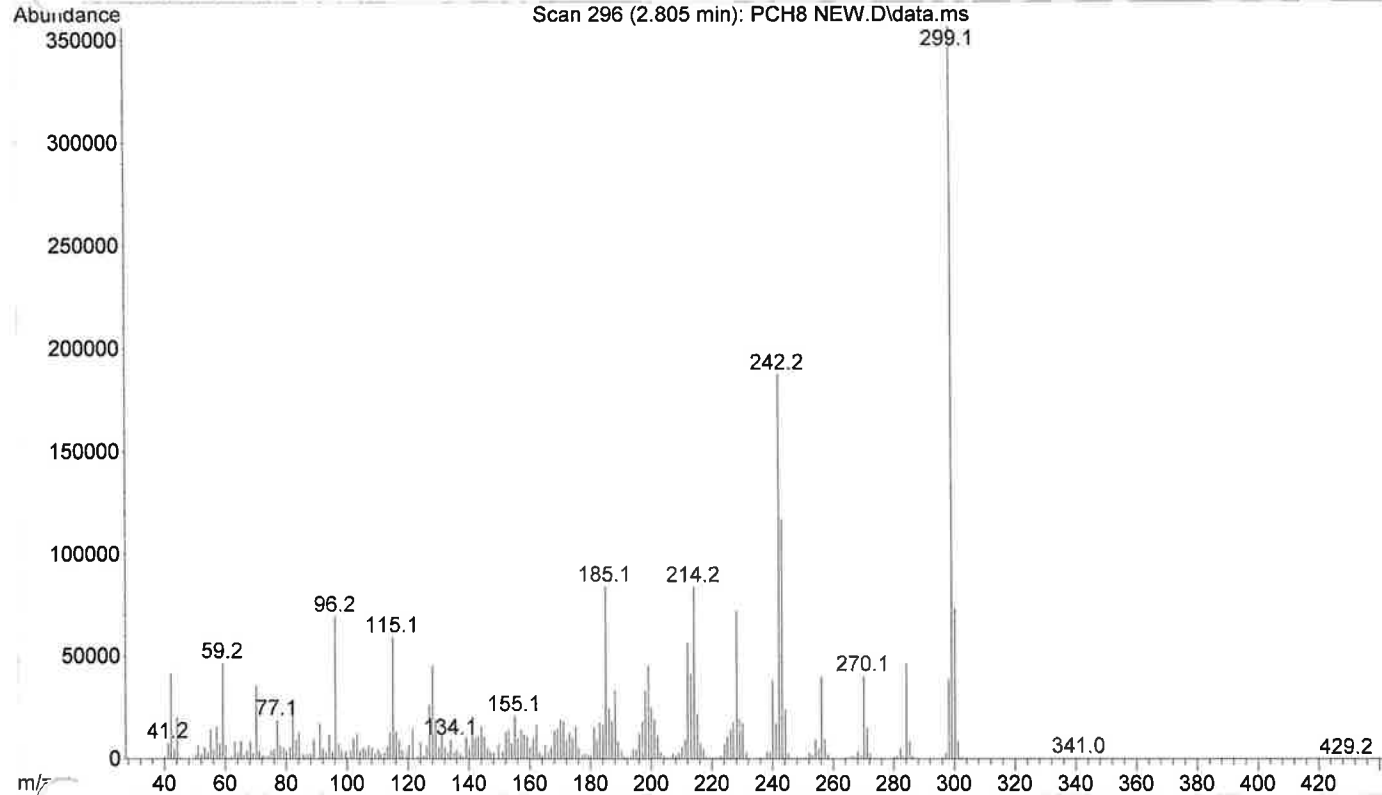
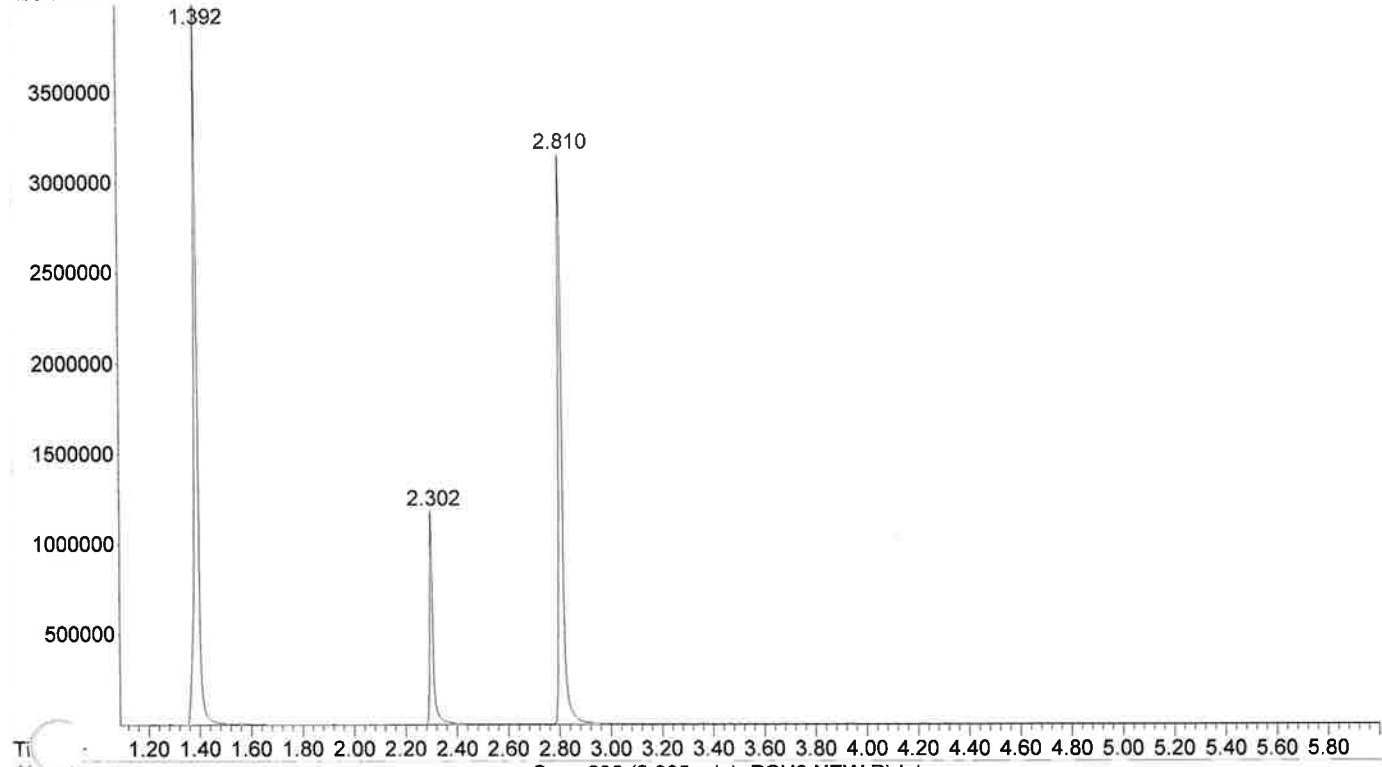
Operator: WILLIAM STANTON on 16 Jun 2017 13:20

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH8 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH9 NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

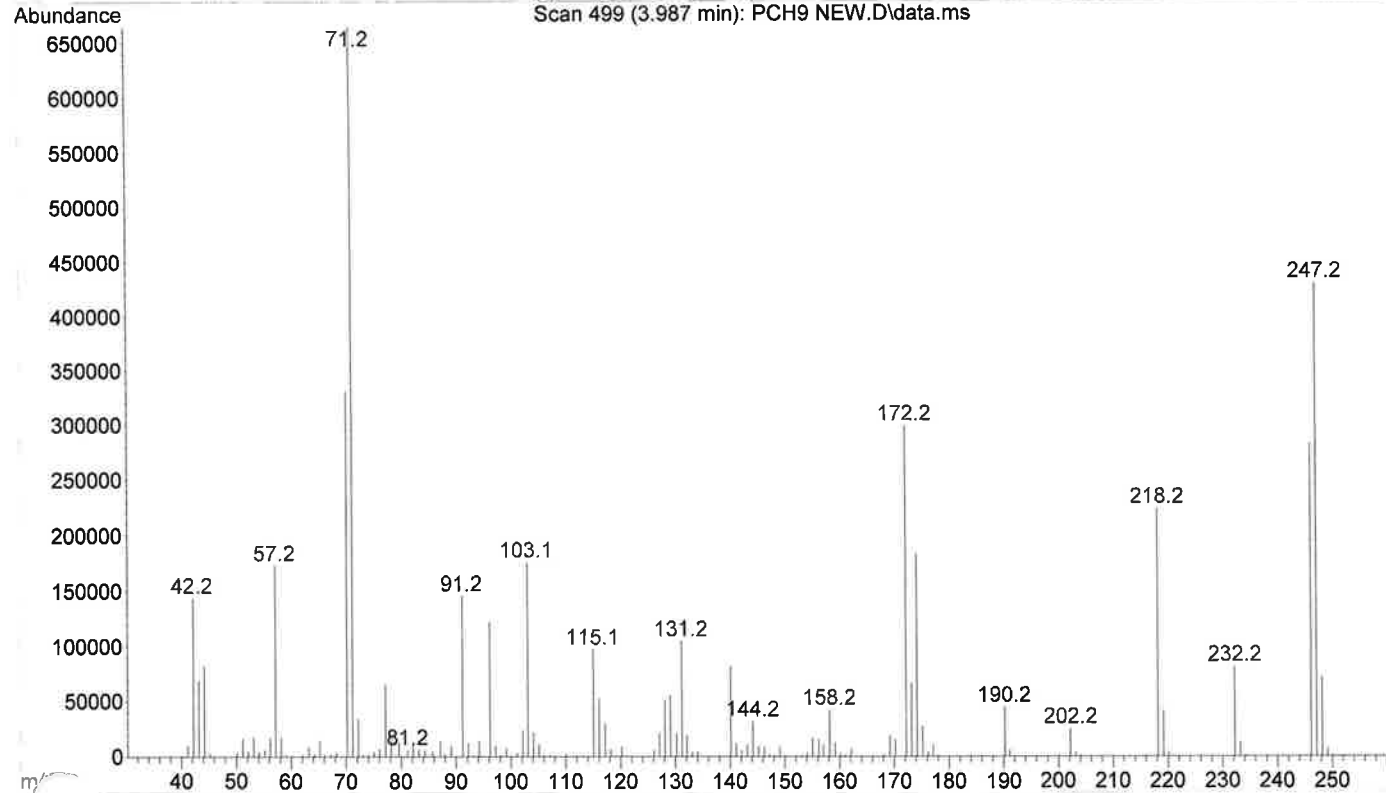
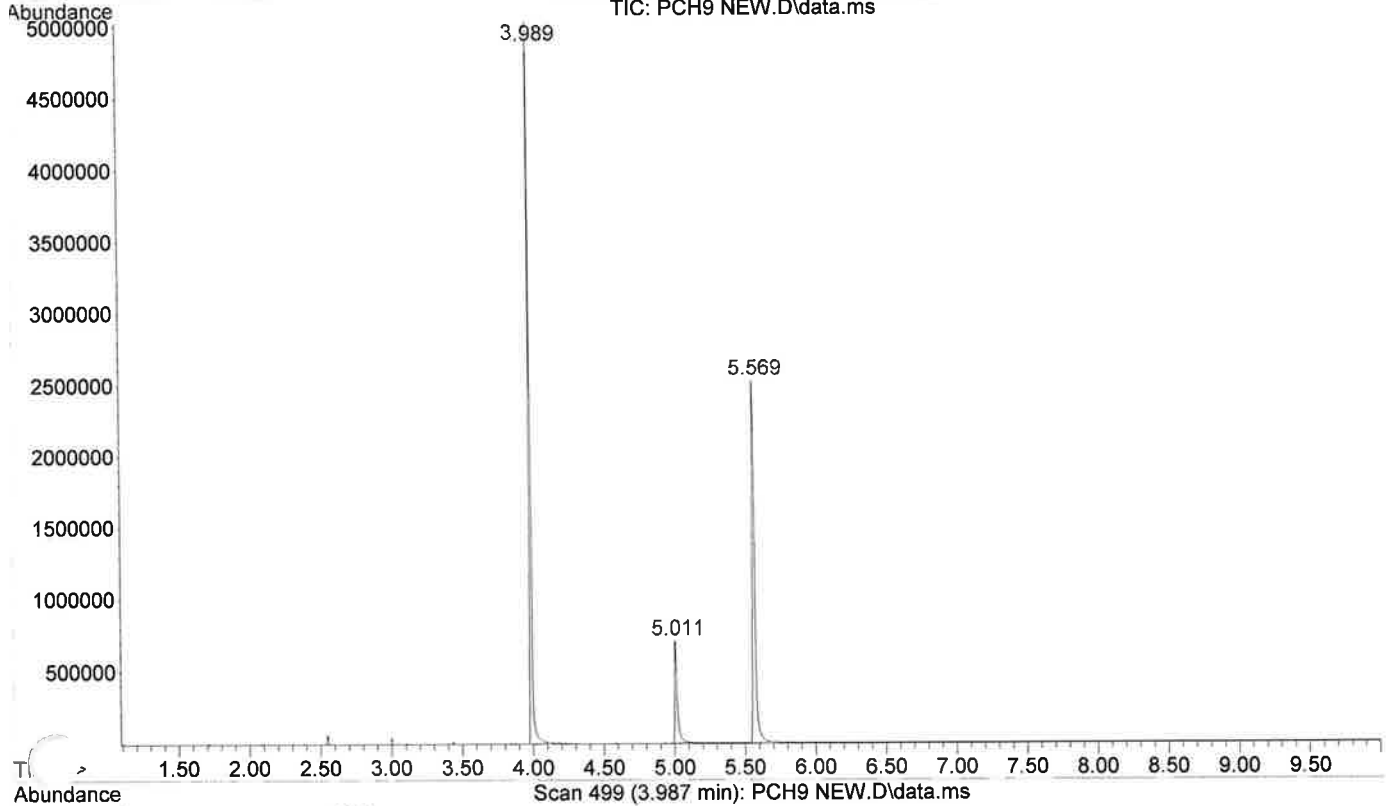
Operator: WILLIAM STANTON on 16 Jun 2017 13:49

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH9 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi

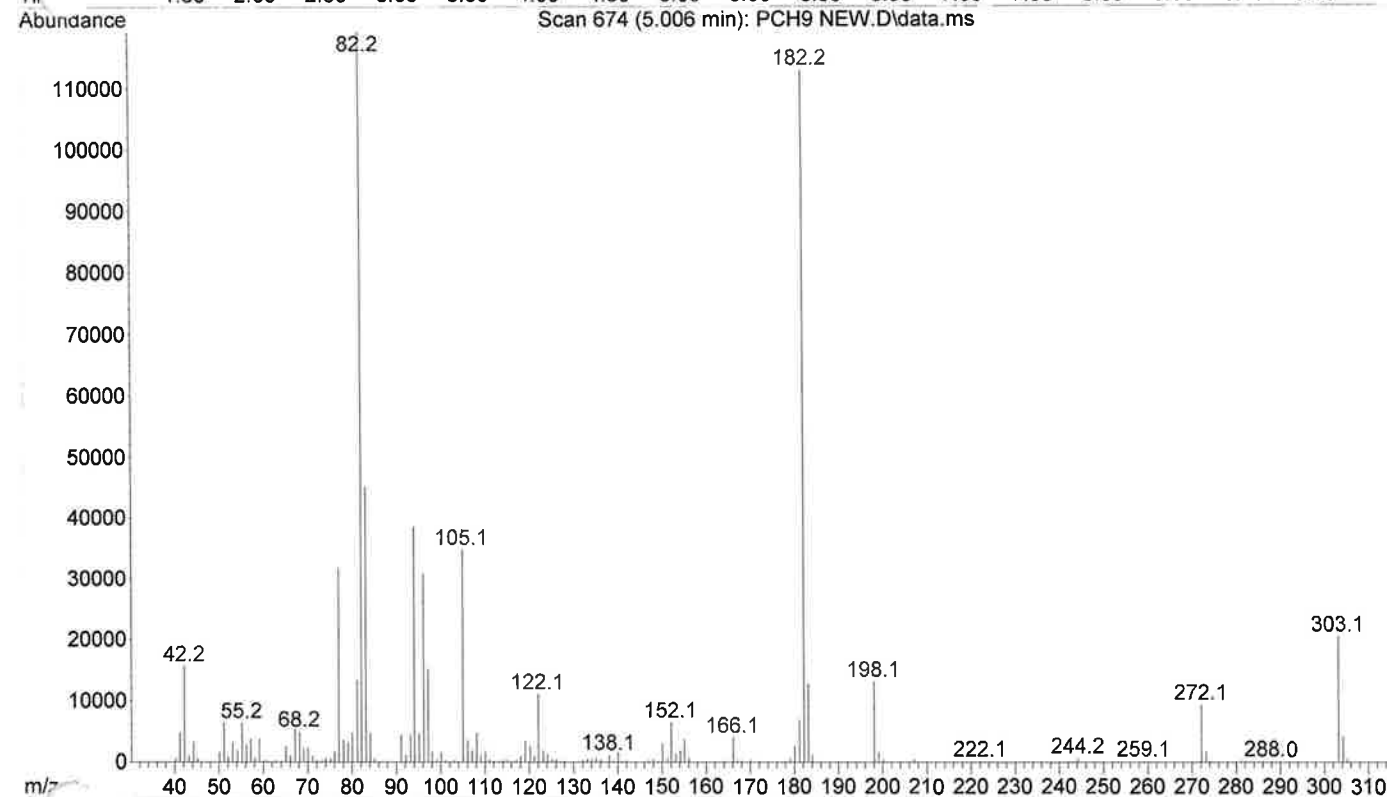
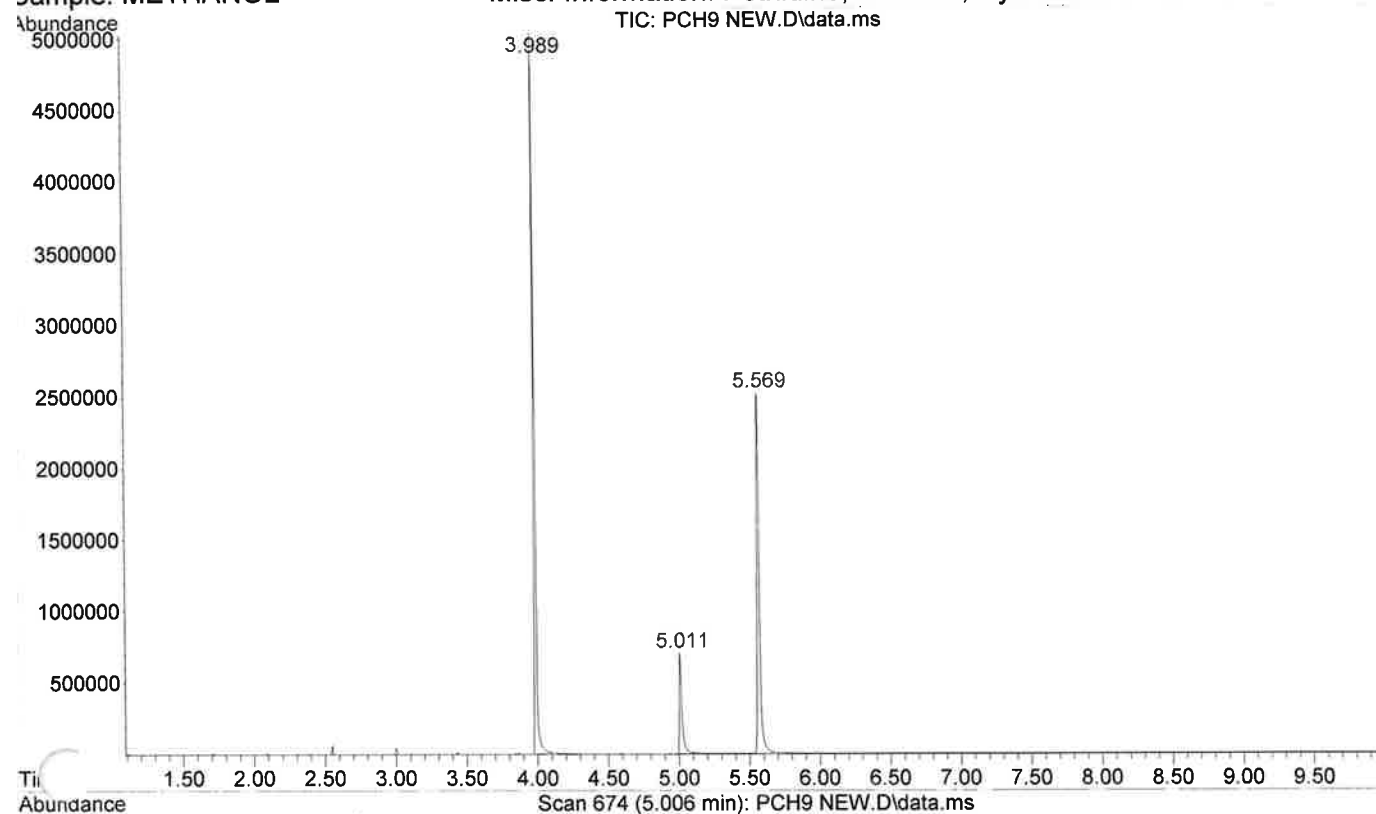
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH9 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 13:49
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M
Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Con: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

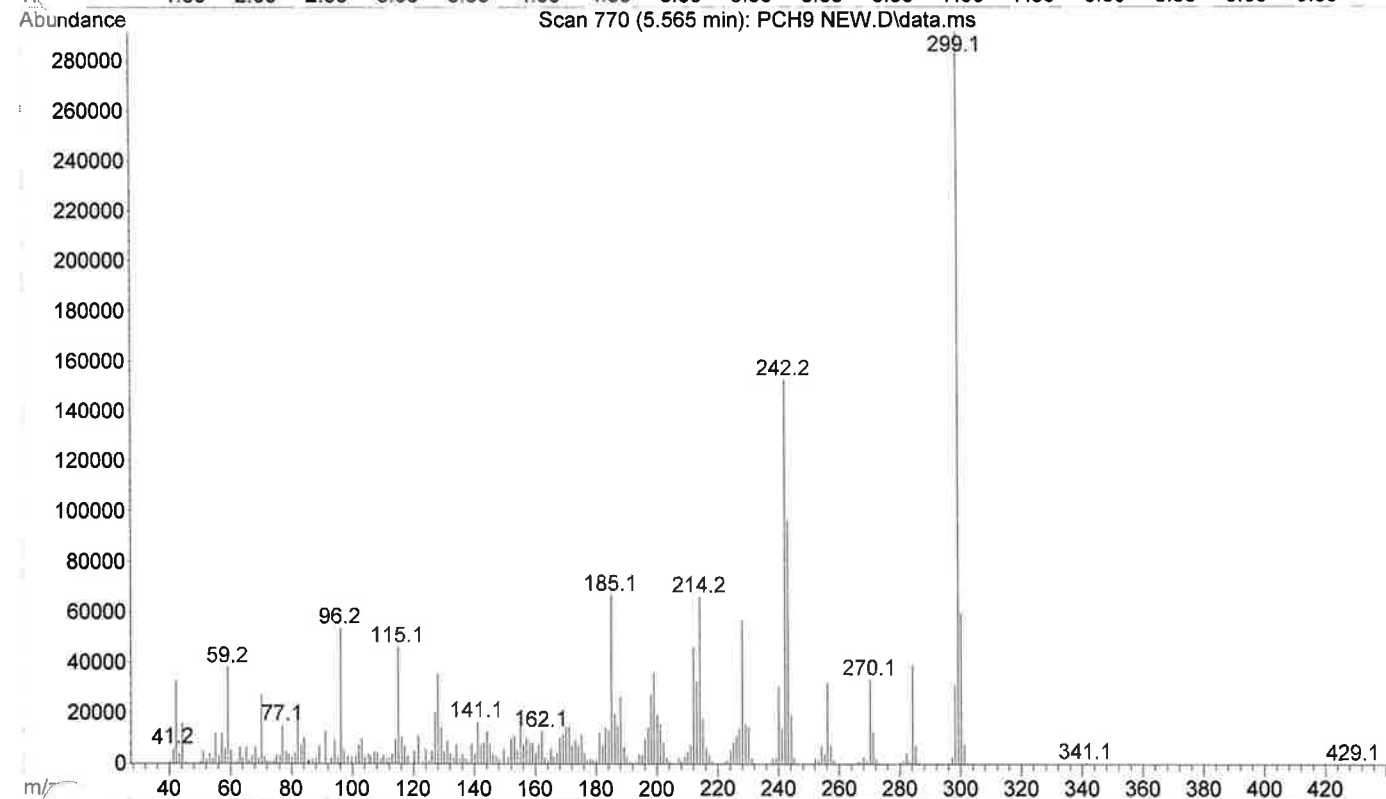
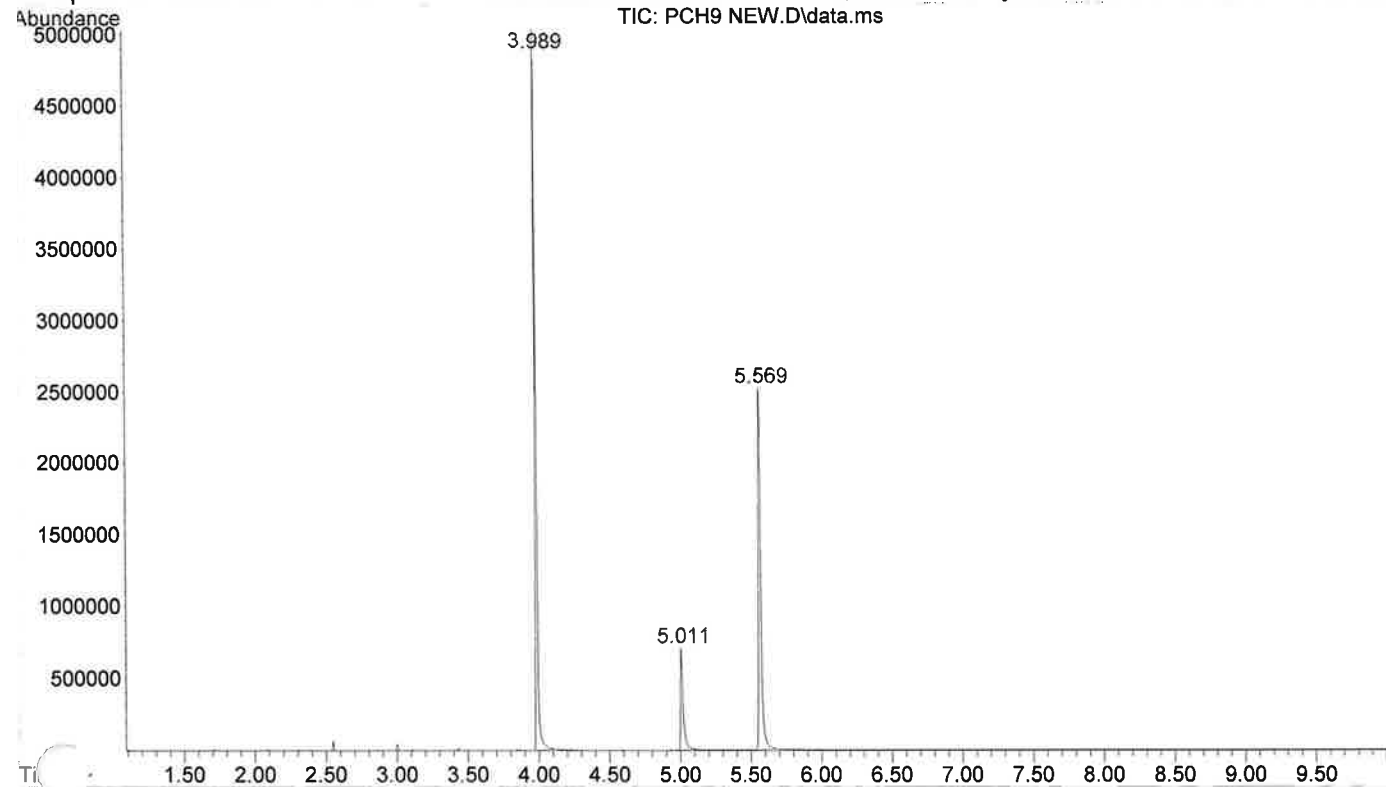
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH9 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 13:49

Bmc

Path: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH10 NEW.D

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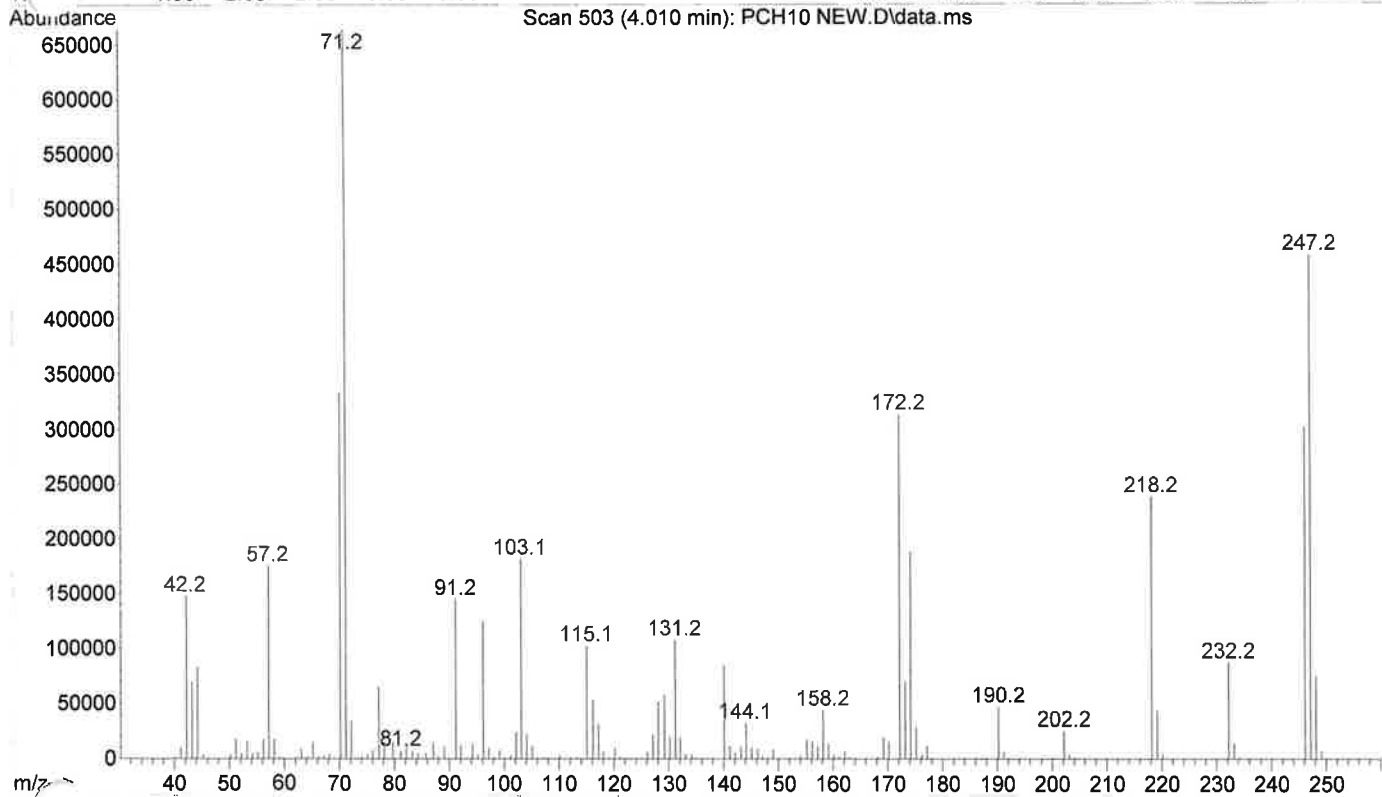
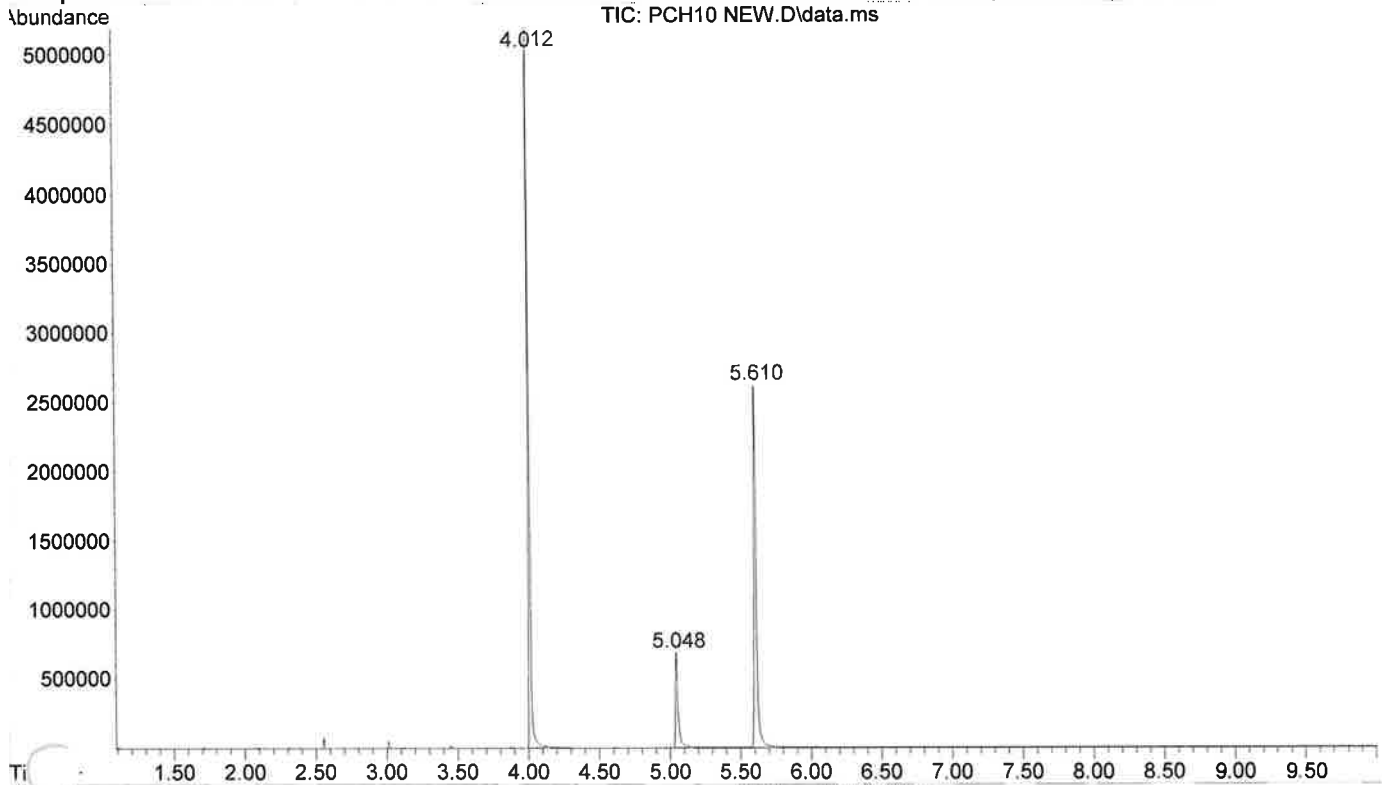
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 14:22

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH10 NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

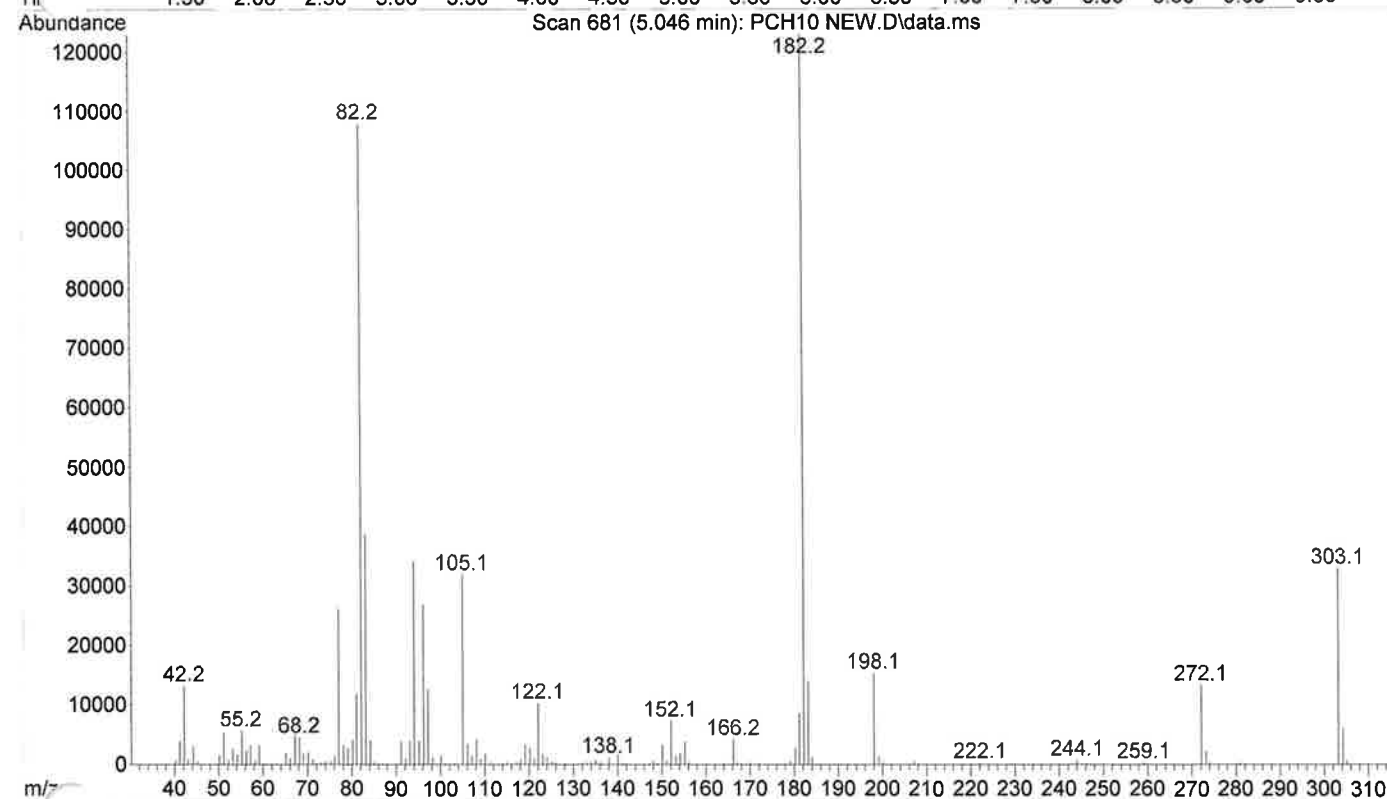
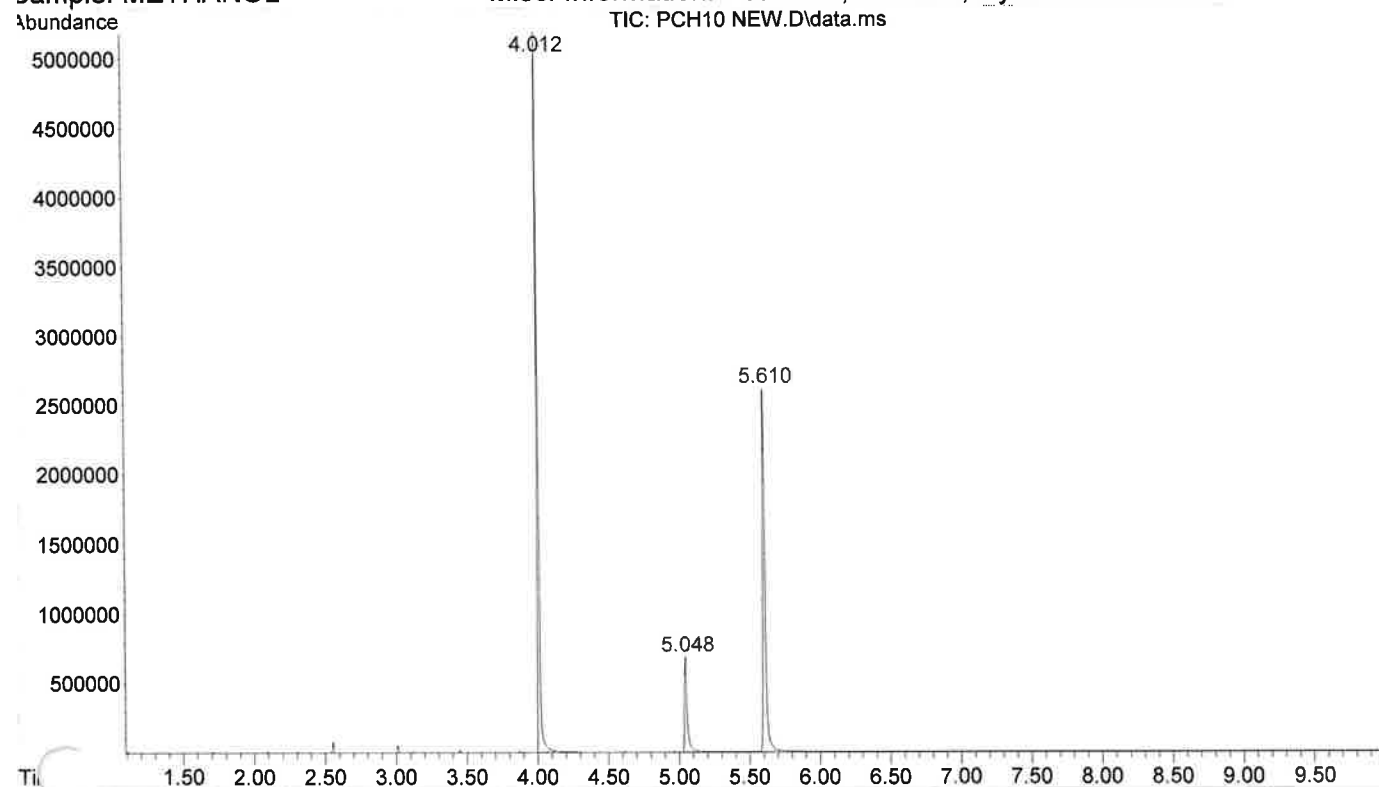
Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: WILLIAM STANTON on 16 Jun 2017 14:22

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

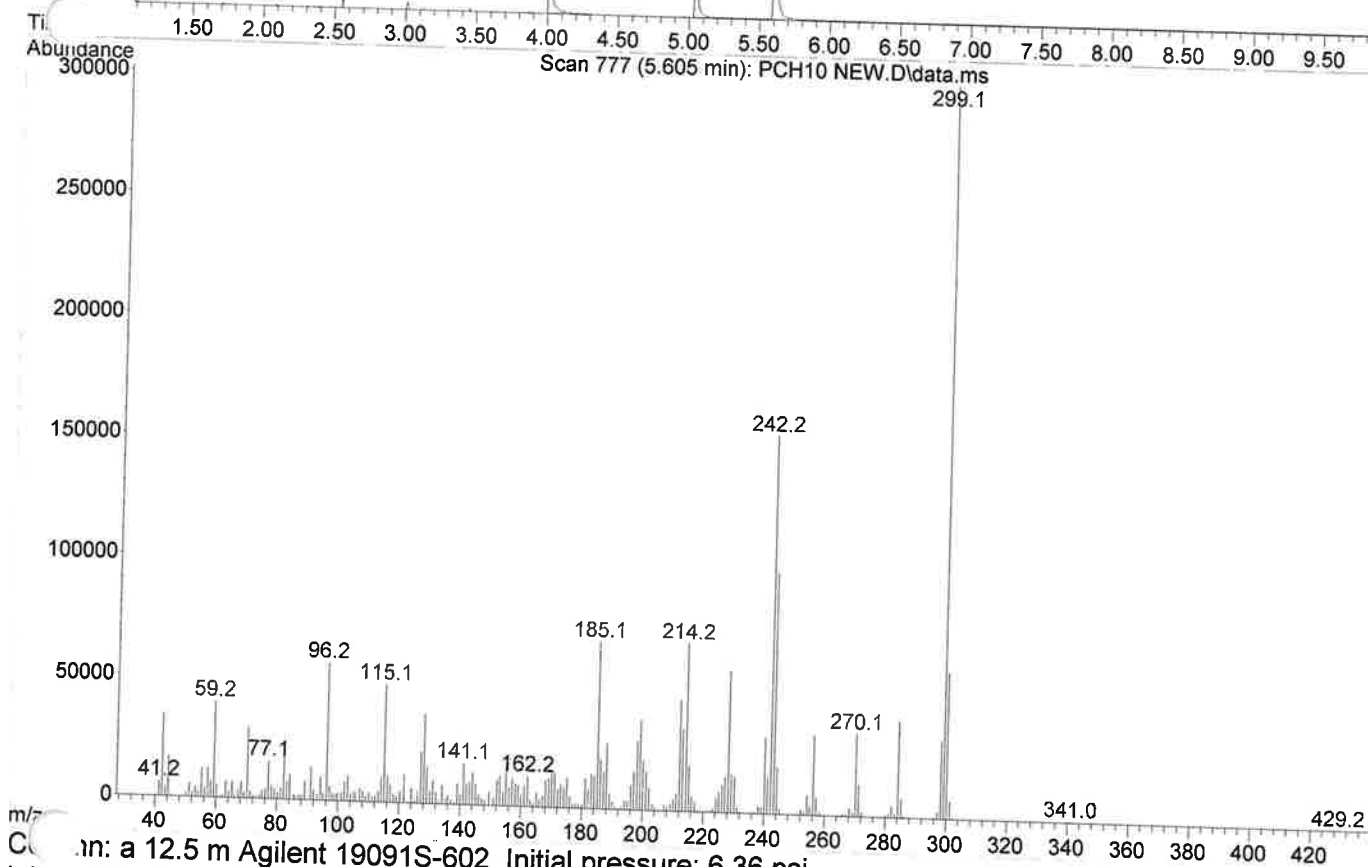
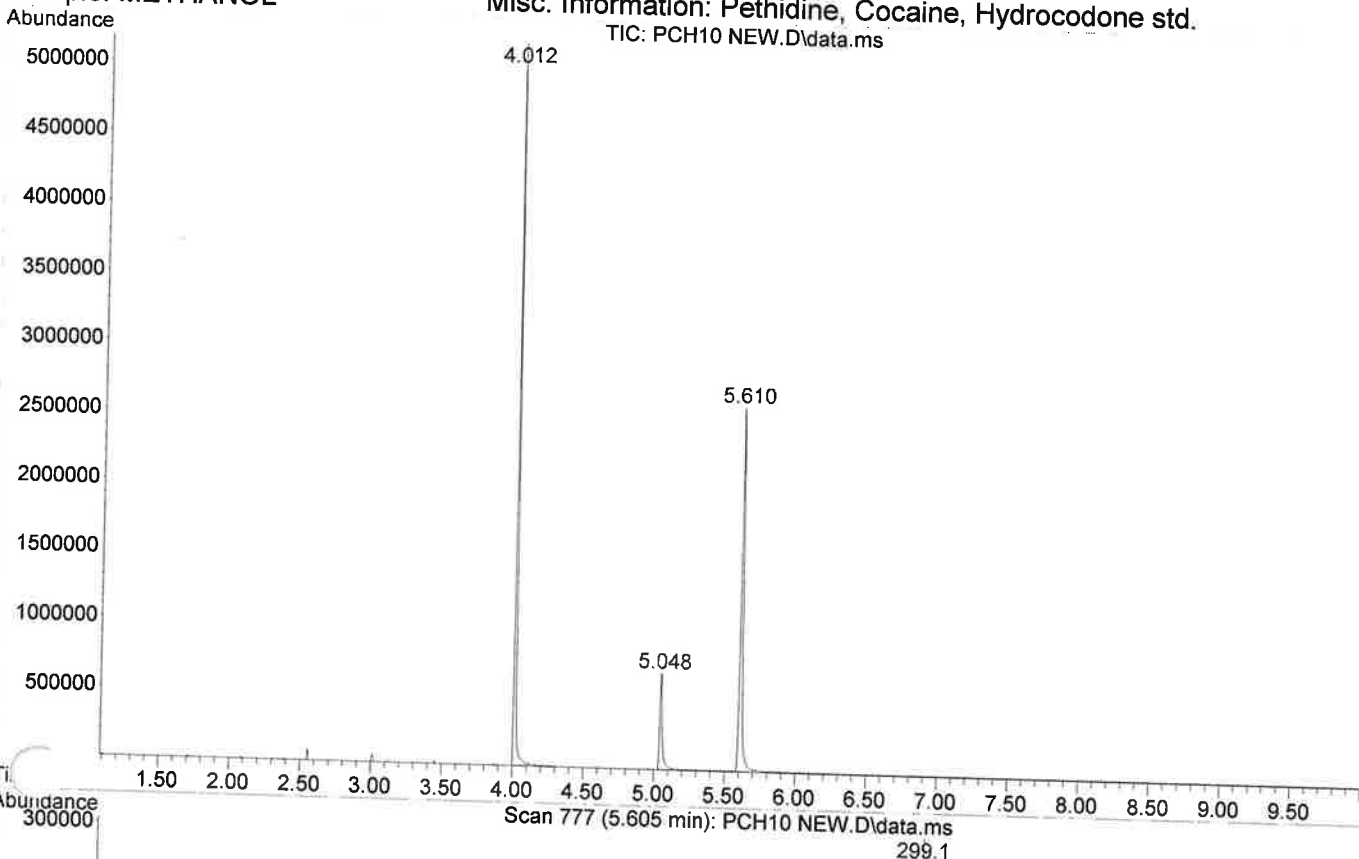
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH10 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 14:22
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

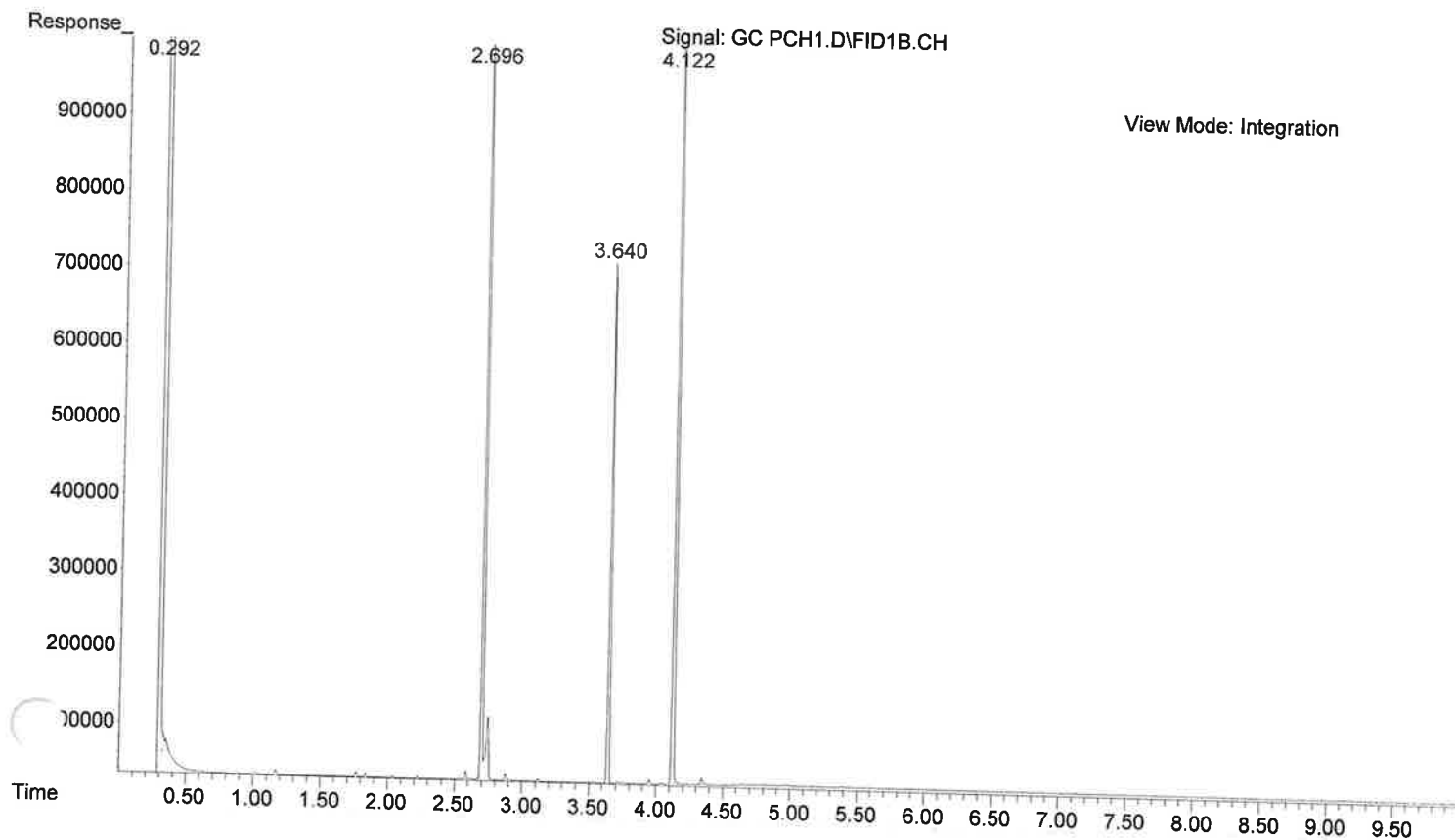
Misc. Information: Pethidine, Cocaine, Hydrocodone std.



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 60 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

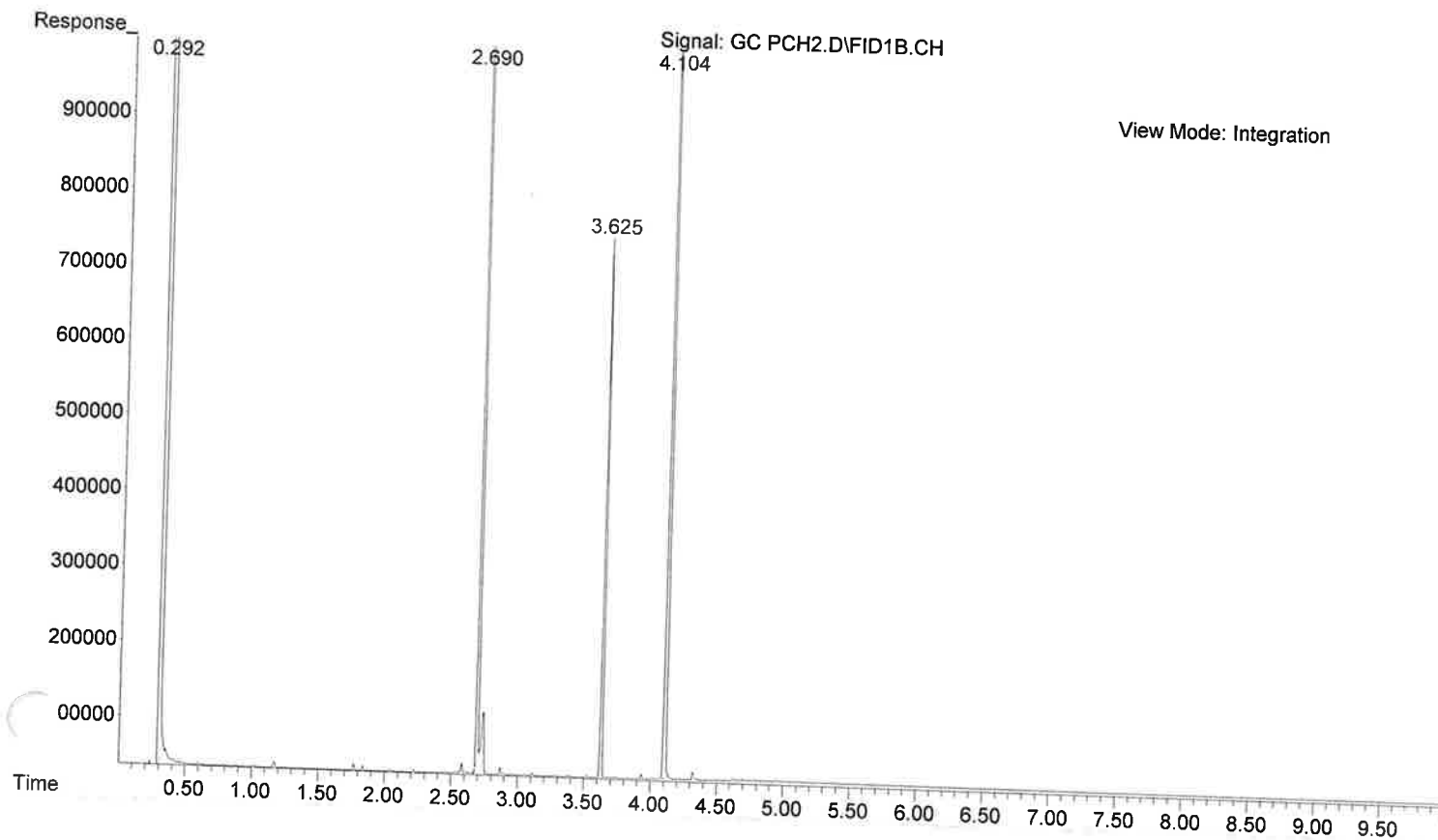
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Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 13:14:16 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: METHANOL
Misc Info : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

WAS



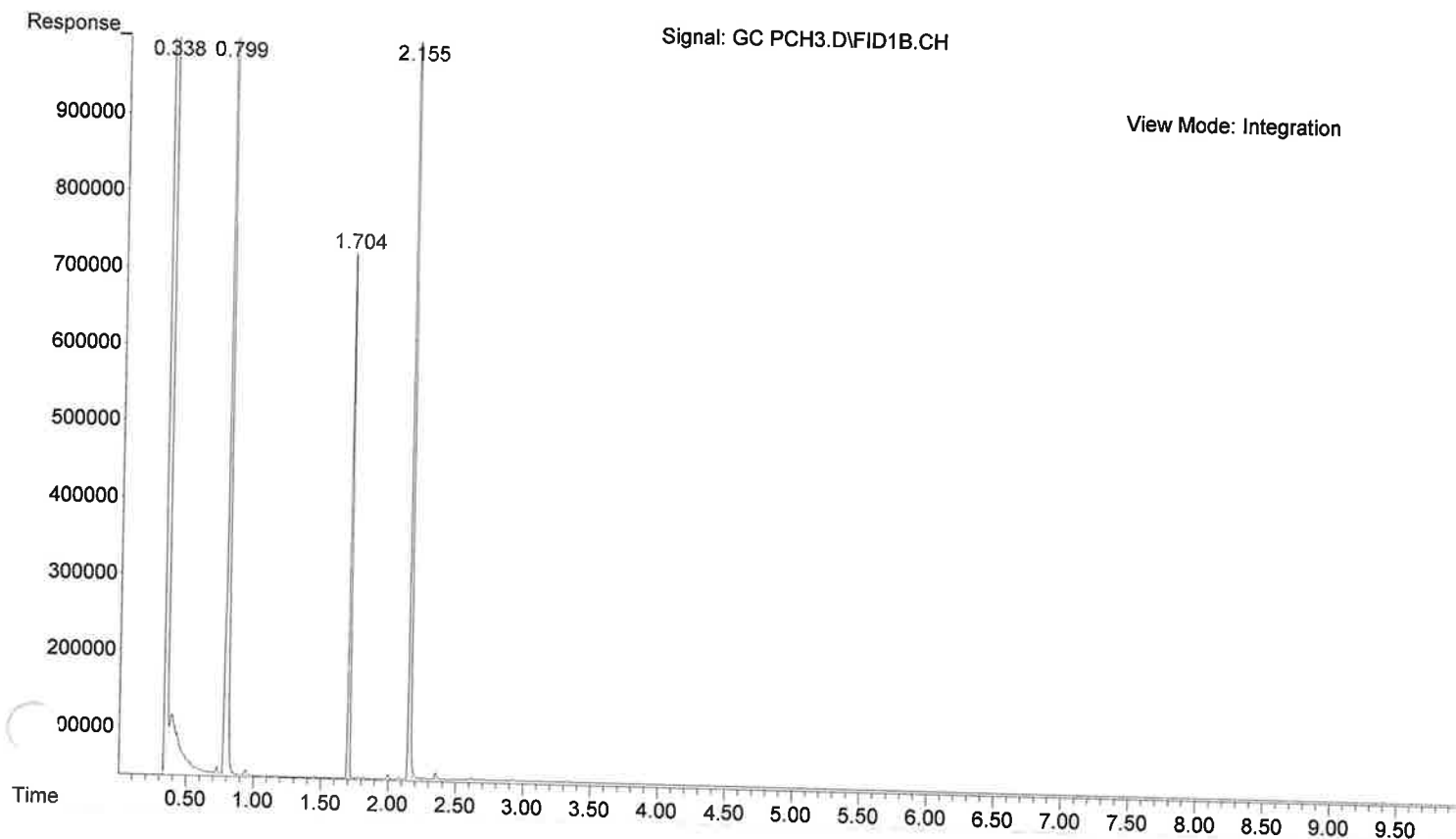
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Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 13:43:27 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: METHANOL
Mi fo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

One



File :C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH3.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 14:11:07 using AcqMethod ASGC200.M
Instrument : Graceland
Sample Name: METHANOL
Mi fo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

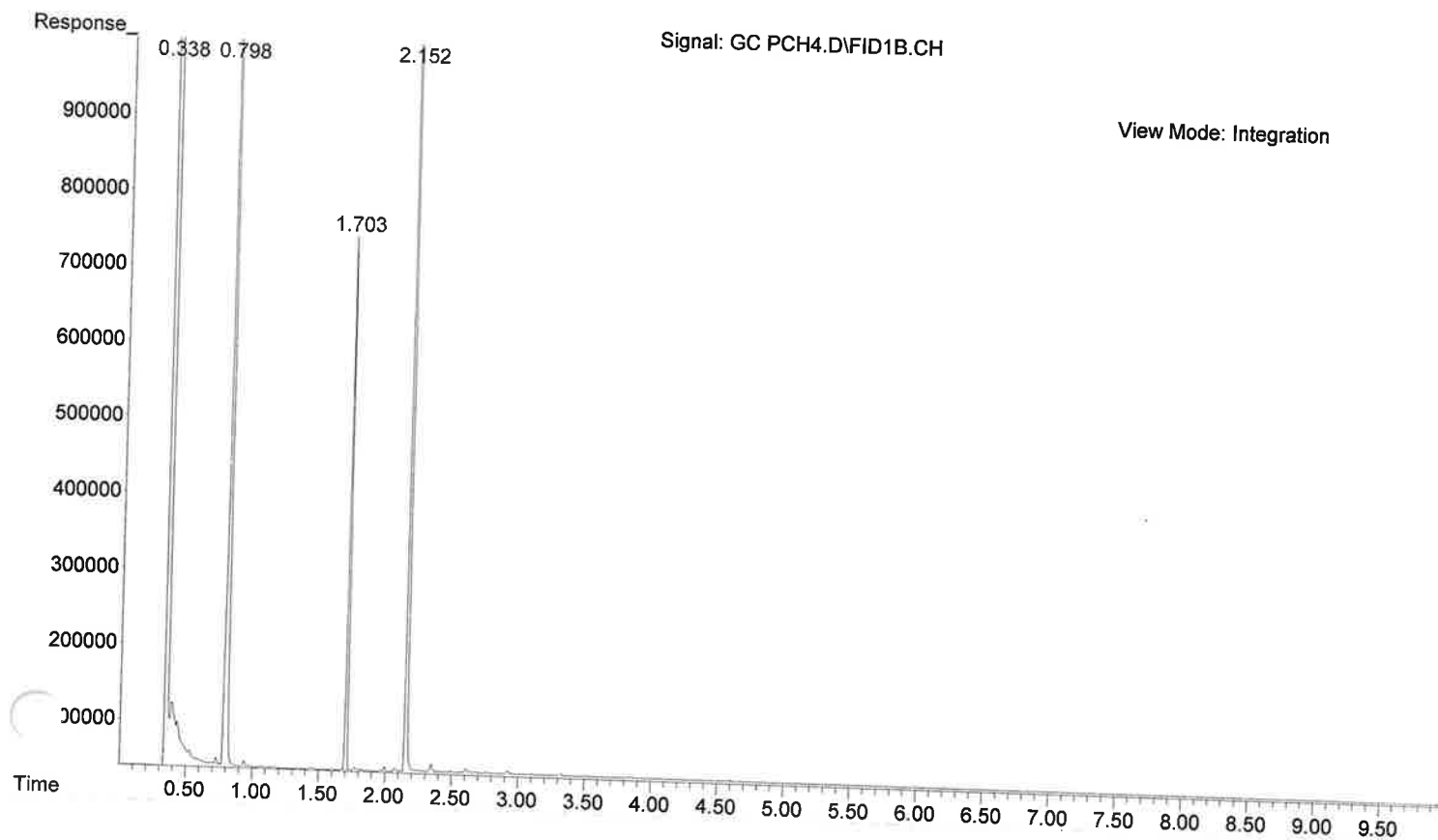
218



File : C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH4.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 14:39:01 using AcqMethod ASGC200.M
Instrument : Graceland
Sample Name: METHANOL
Mi fo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

JS

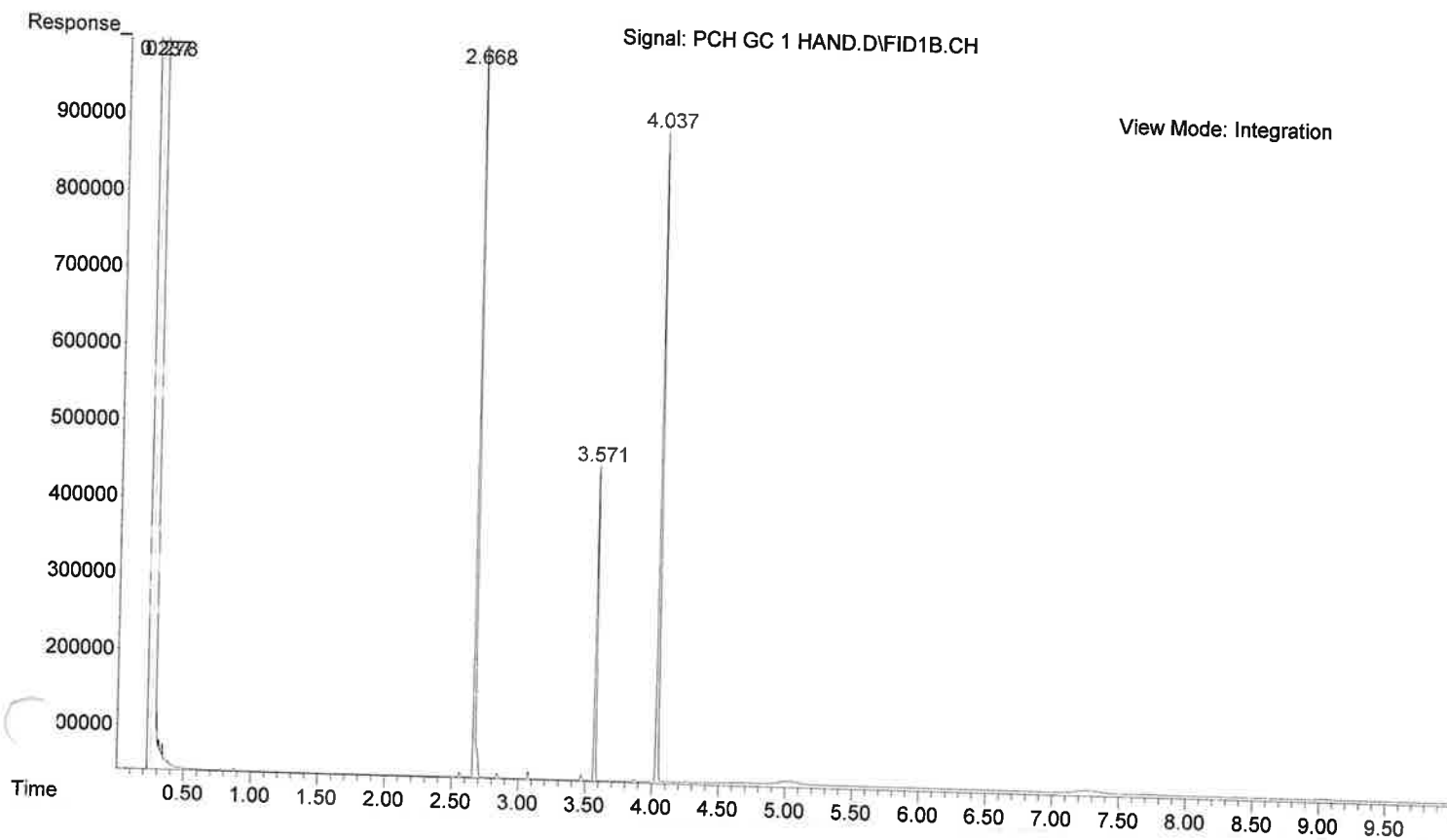
BMC



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Operator :
Acquired : 22-Jun-17, 13:42:52 using AcqMethod GC100.M
Instrument : Graceland
Sample Name:
Mi fo :
Vial Number: 1

AK

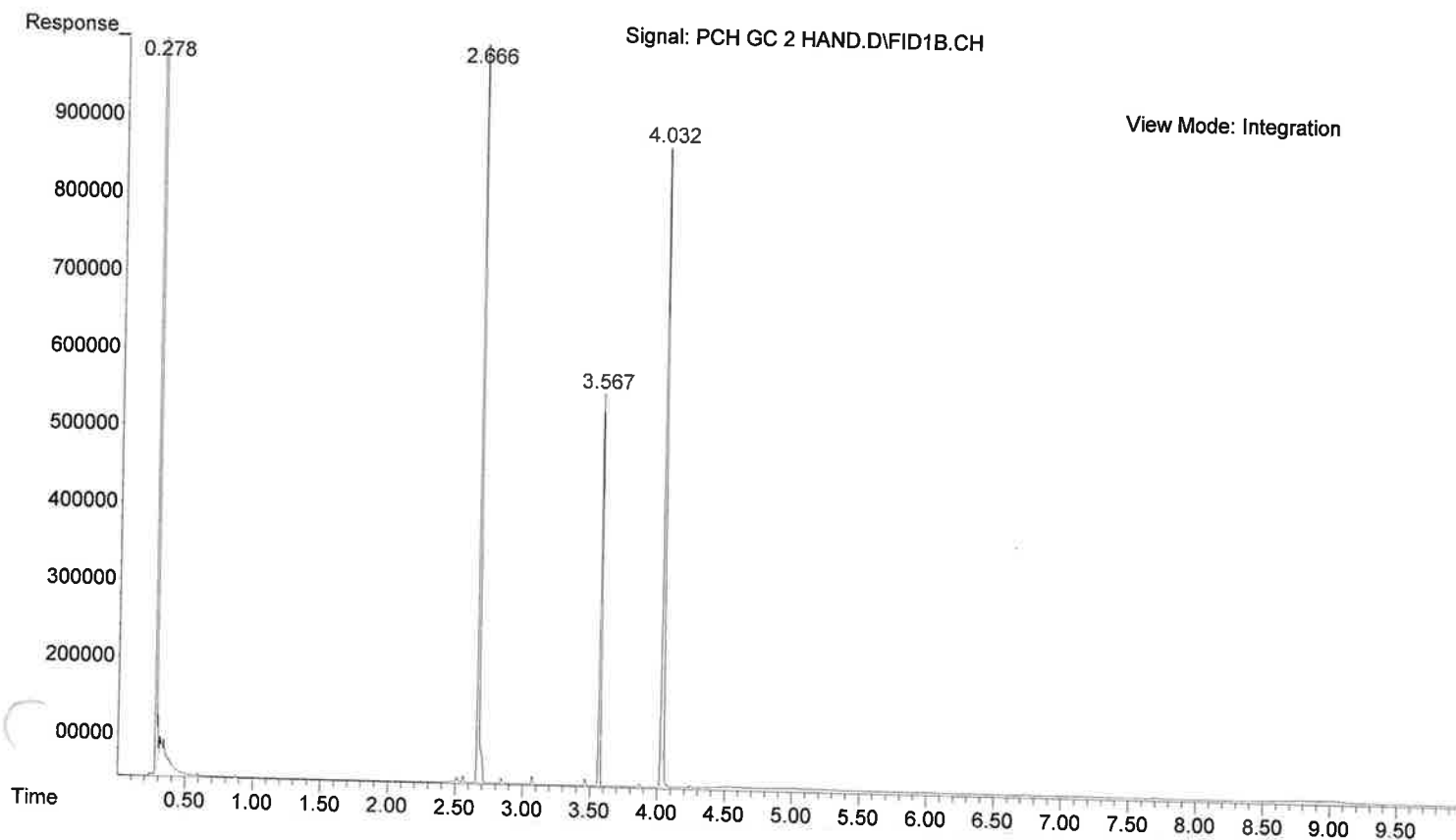
me



File :C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 2 HAND.D
Operator :
Acquired : 22-Jun-17, 14:08:49 using AcqMethod GC100.M
Instrument : Graceland
Sample Name:
Mi fo :
Vial Number: 1

108

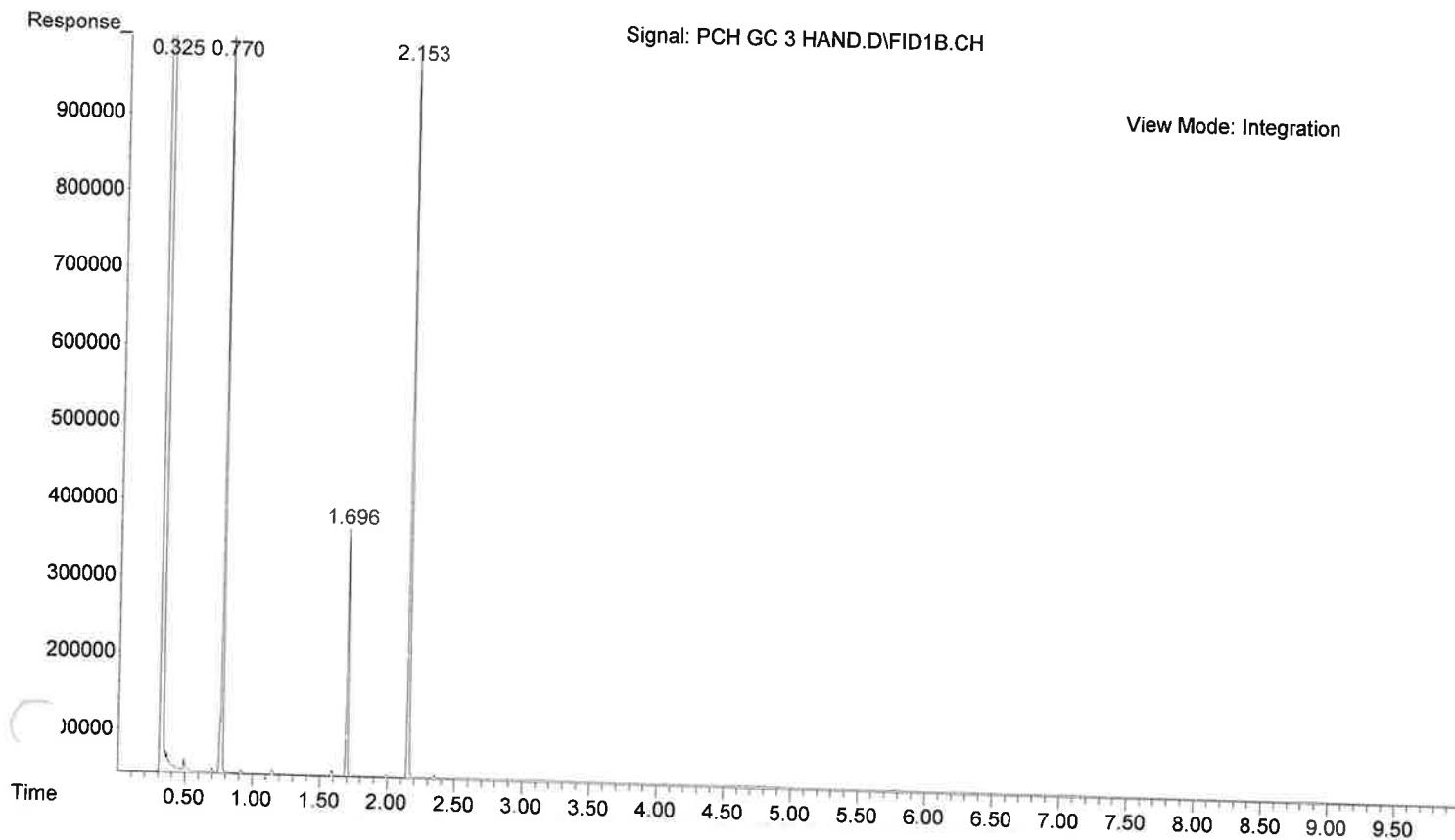
BmC



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 3 HAND.D
Operator :
Acquired : 22-Jun-17, 14:33:32 using AcqMethod GC200.M
Instrument : Graceland
Sample Name:
Mix fo :
Vial Number: 1

DS

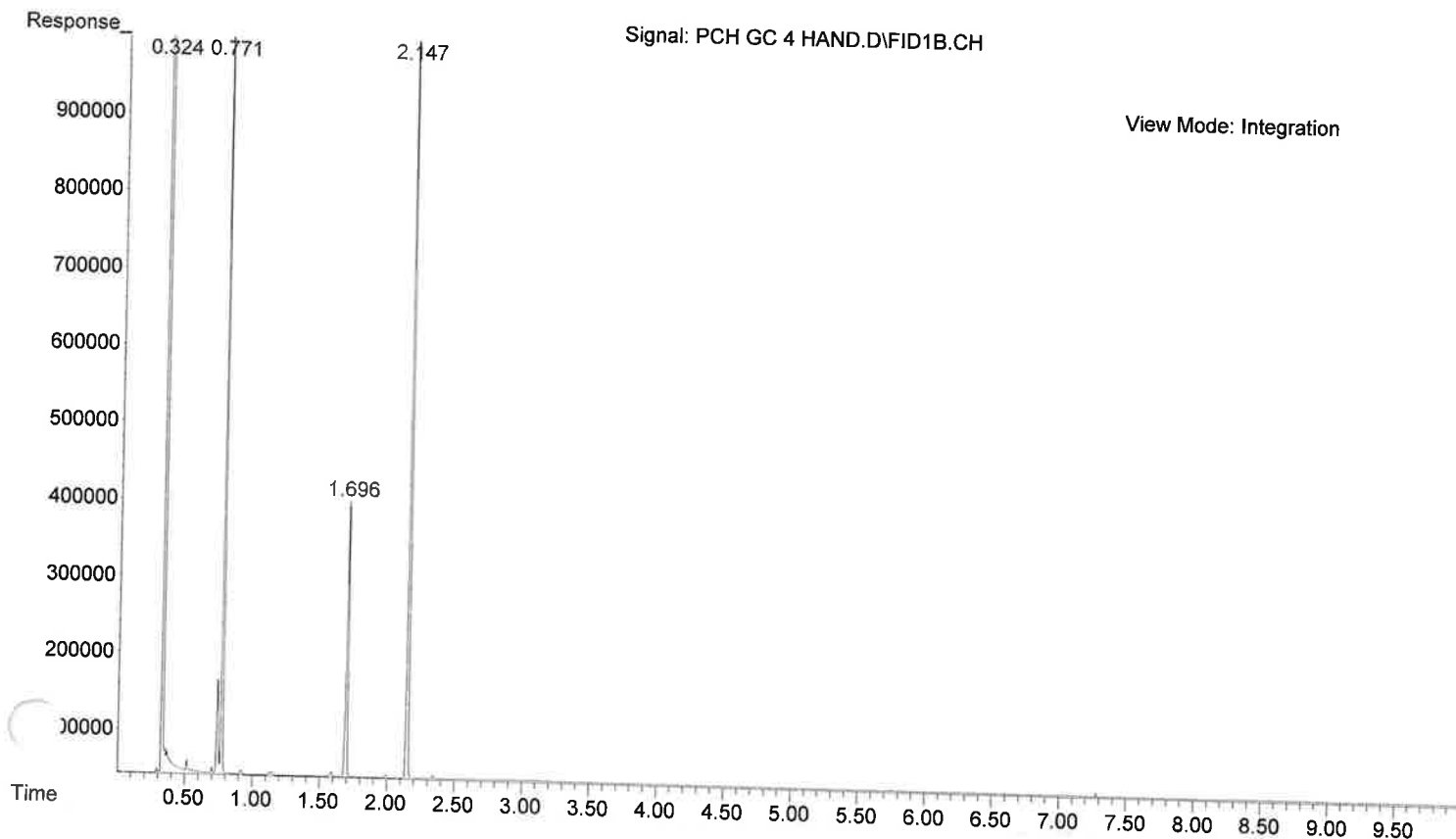
bme



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 4 HAND.D
Operator :
Acquired : 22-Jun-17, 14:59:43 using AcqMethod GC200.M
Instrument : Graceland
Sample Name:
Mix Info :
Vial Number: 1

217

6me



Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)

Mass Spectrometer (Model 5973N Serial Number US03960484)

TBI FCU ID – Graceland

- *Testosterone Mixture Standard RT Comparisons*

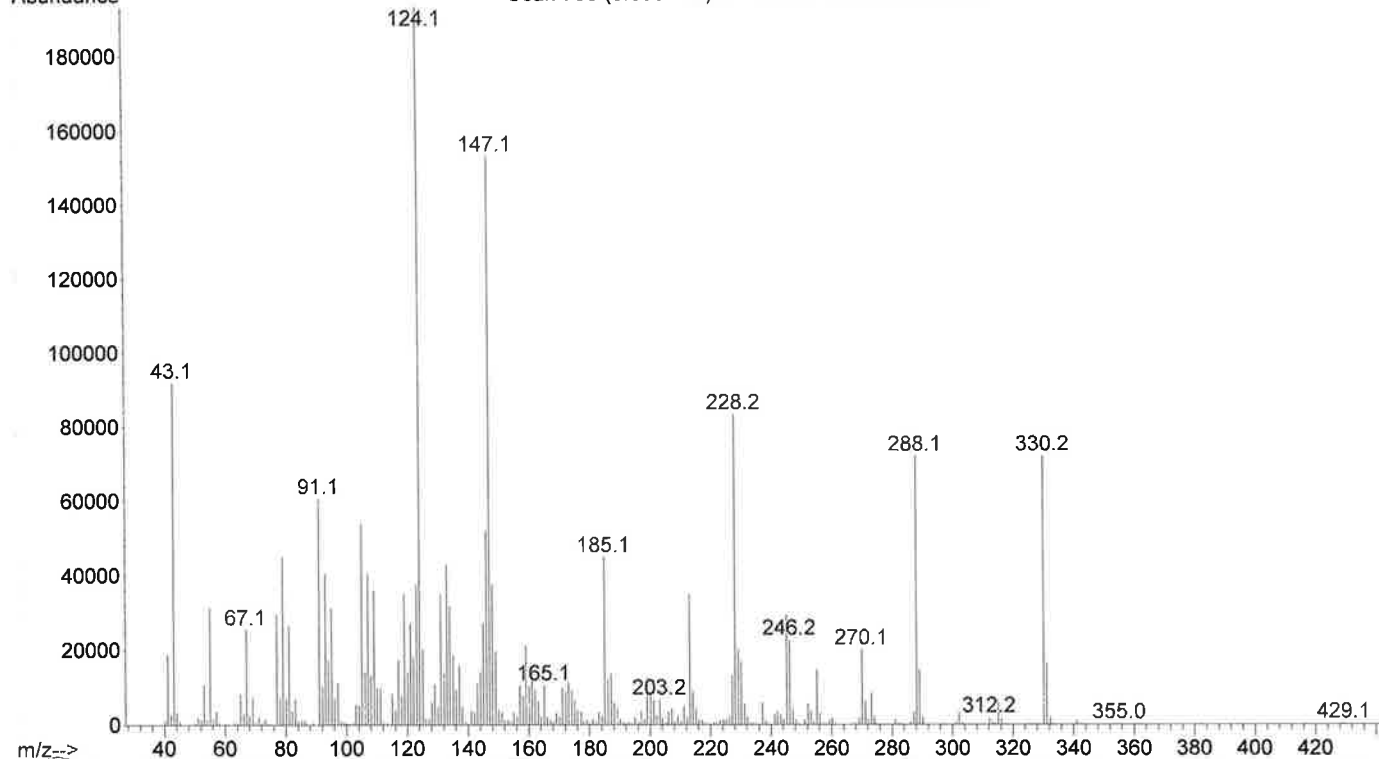
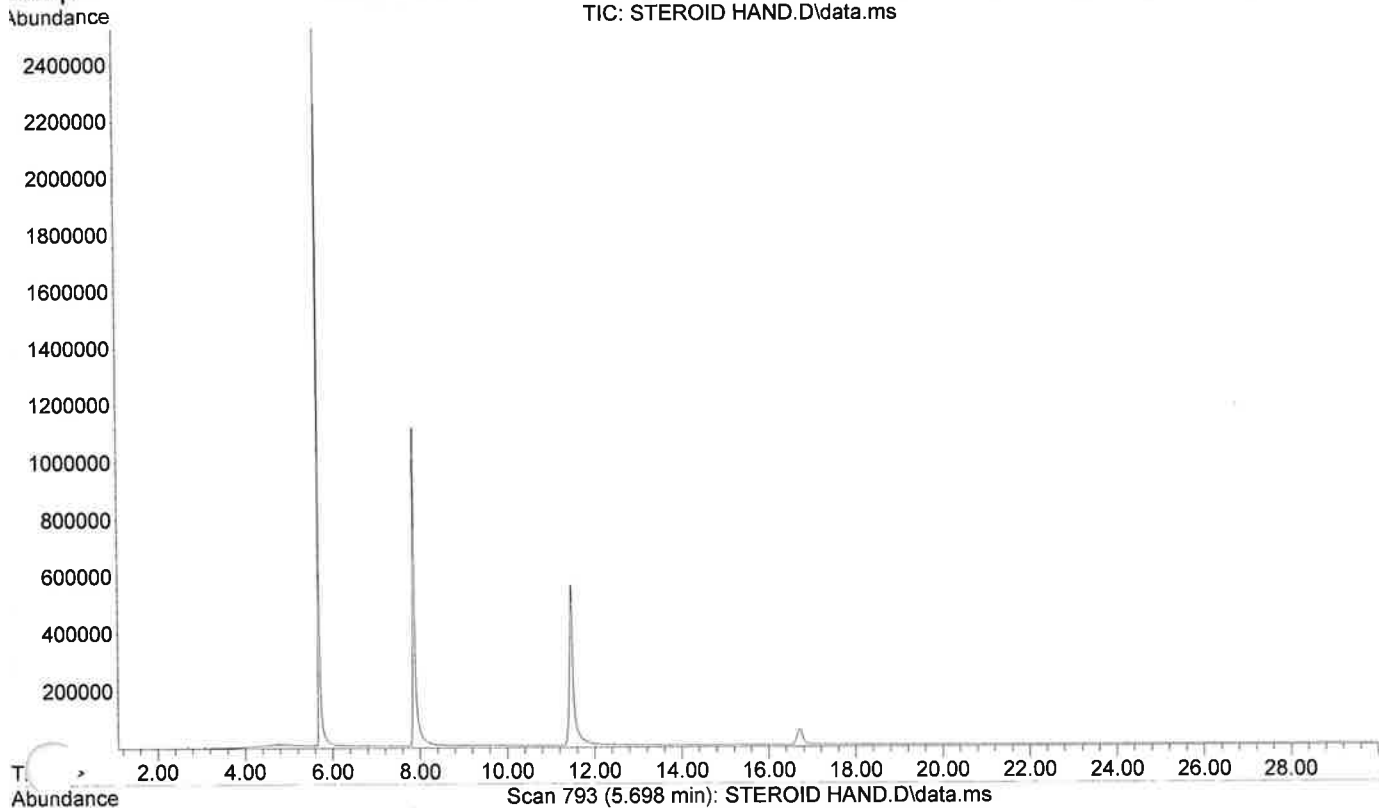
Method	Compound	RT	Acceptable variance ($\pm 2\%$)	Repeat RT
ASMSDRUGSTI	T. acetate	5.664	± 0.113	5.608
	T. isocaproate	7.836	± 0.157	7.781
	T. benzoate	11.442	± 0.229	11.383
	T. undecanoate	16.671	± 0.333	16.611
ASGC280ISOTI	T. acetate	1.124	± 0.022	1.126
	T. isocaproate	2.056	± 0.041	2.059
	T. benzoate	3.671	± 0.073	3.674
	T. undecanoate	6.038	± 0.121	6.043

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\STERIOD HAND.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 9:23

Emc
✓

Path: C:\MSDCHEM\1\METHODS\MSDRUGSTI.M

Sample: Misc. Information:



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\STEROID HAND.D

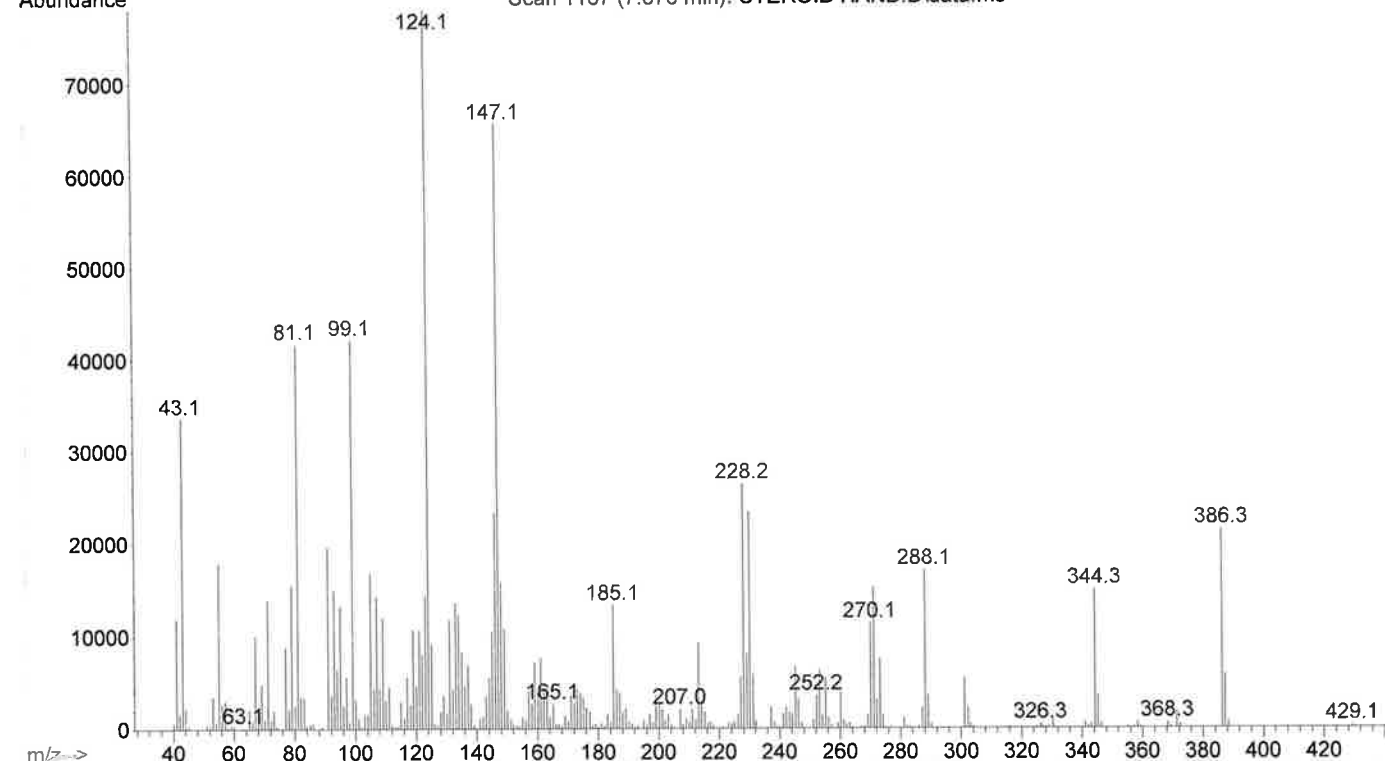
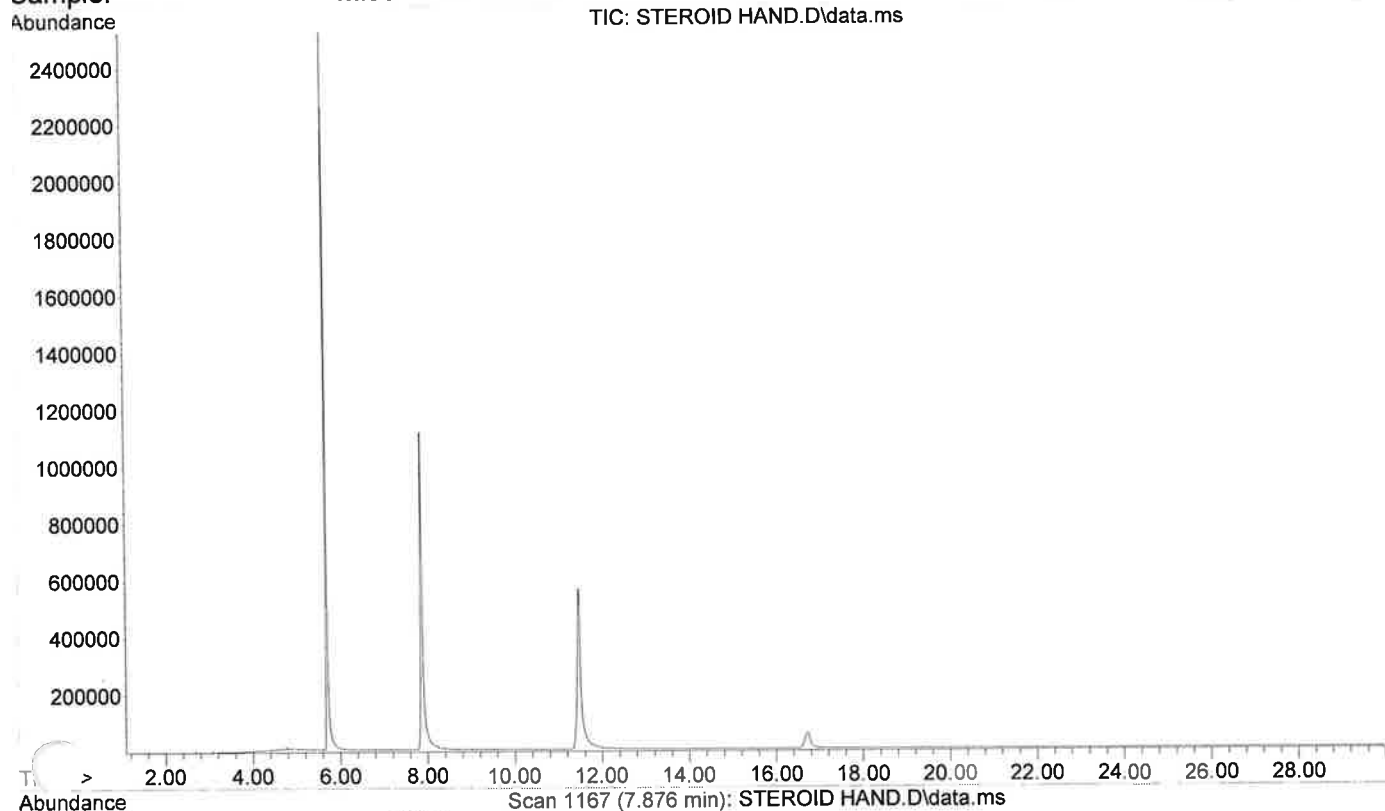
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: on 23 Jun 2017 9:23

Method: C:\MSDCHEM\1\METHODS\MSDRUGSTI.M

Sample: Misc. Information:



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi

Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C

Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp

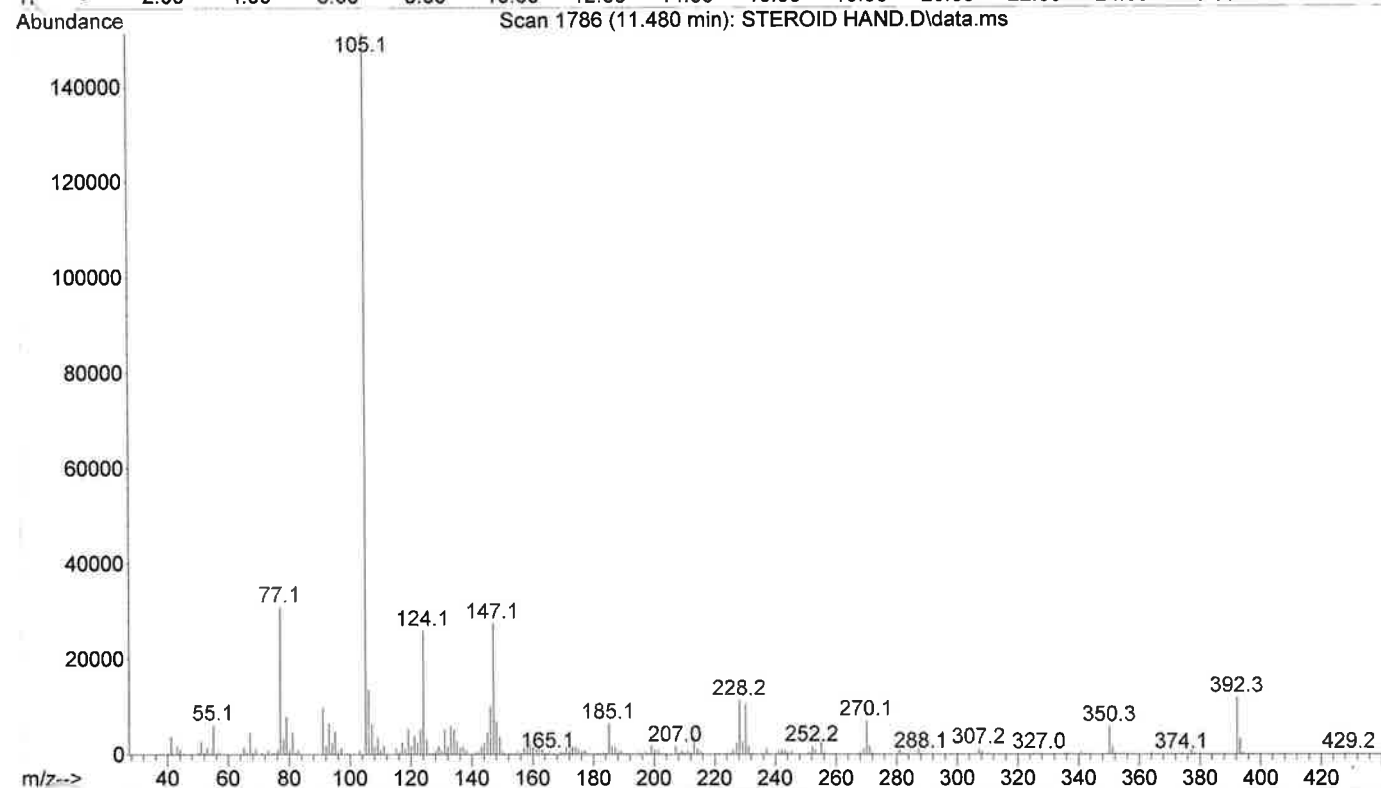
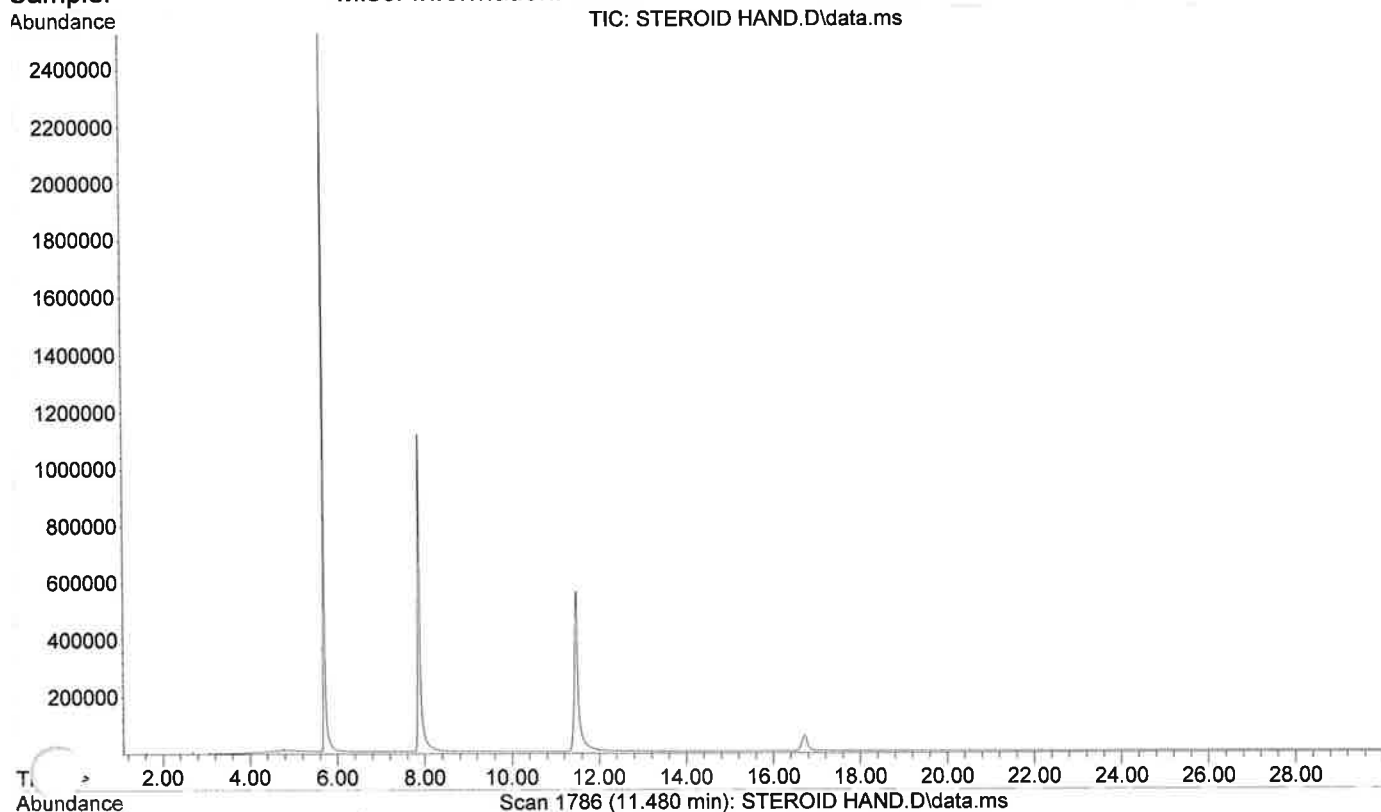
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\STERIOD HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 9:23

BMC

Method: C:\MSDCHEM\1\METHODS\MSDRUGSTI.M

Sample: Misc. Information:



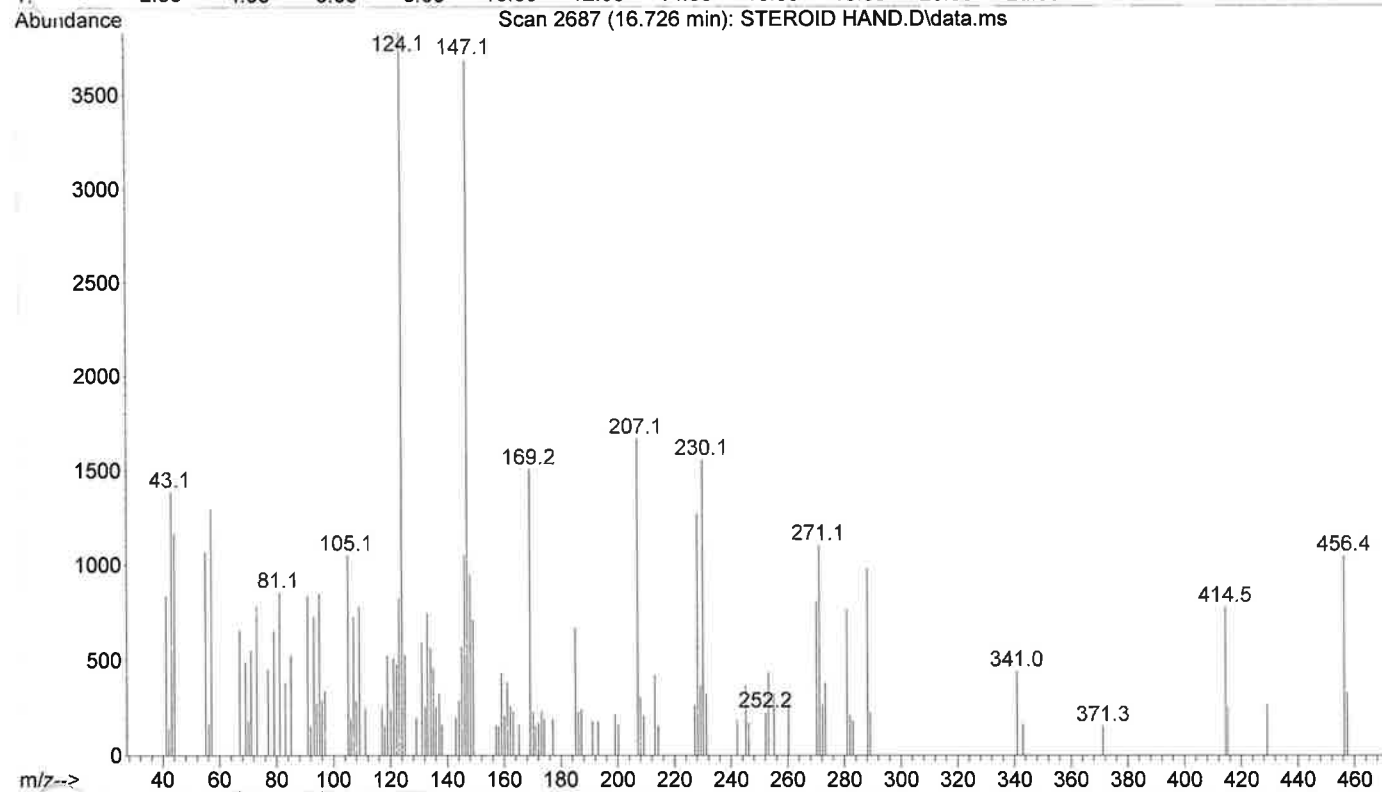
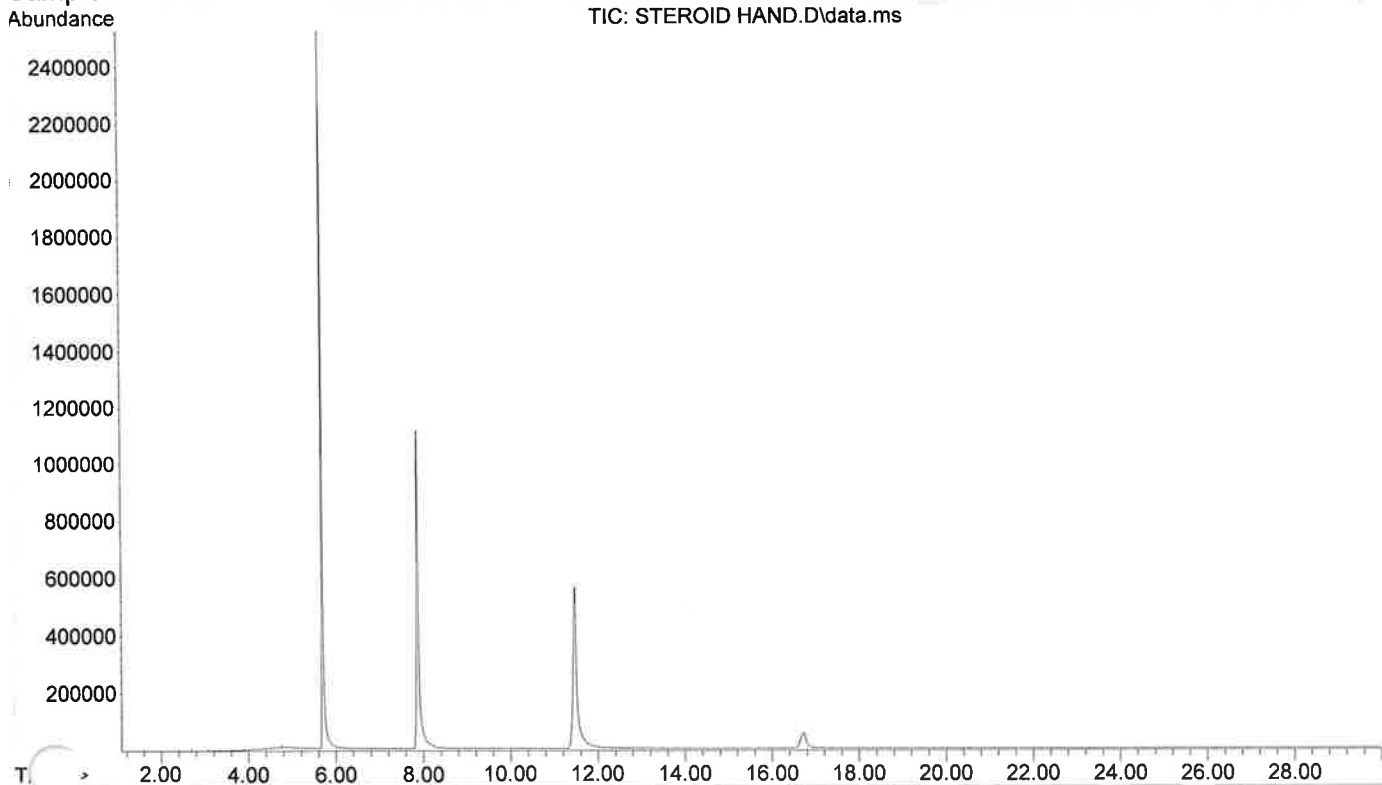
Concn: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\STERIOD HAND.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 9:23

Emc

Method: C:\MSDCHEM\1\METHODS\MSDRUGST1.M

Sample: Misc. Information:

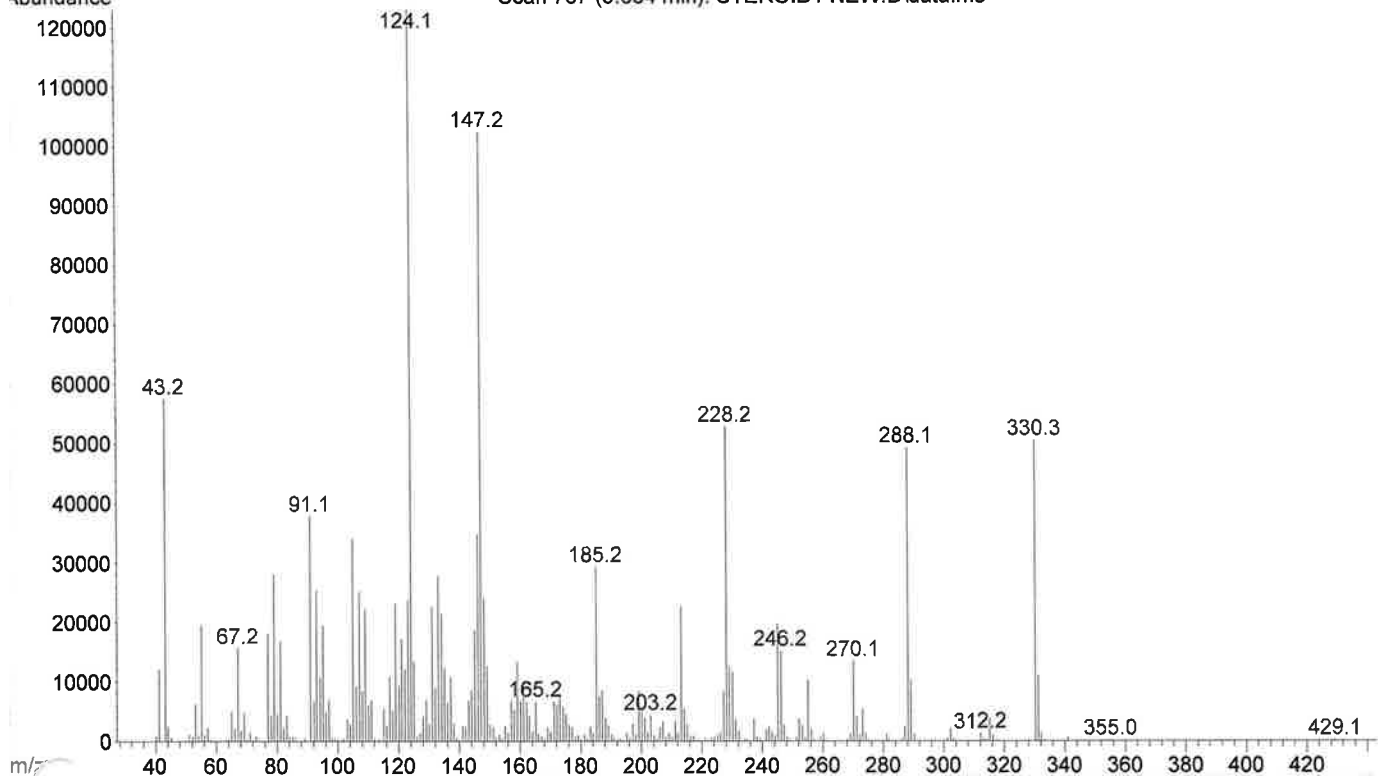
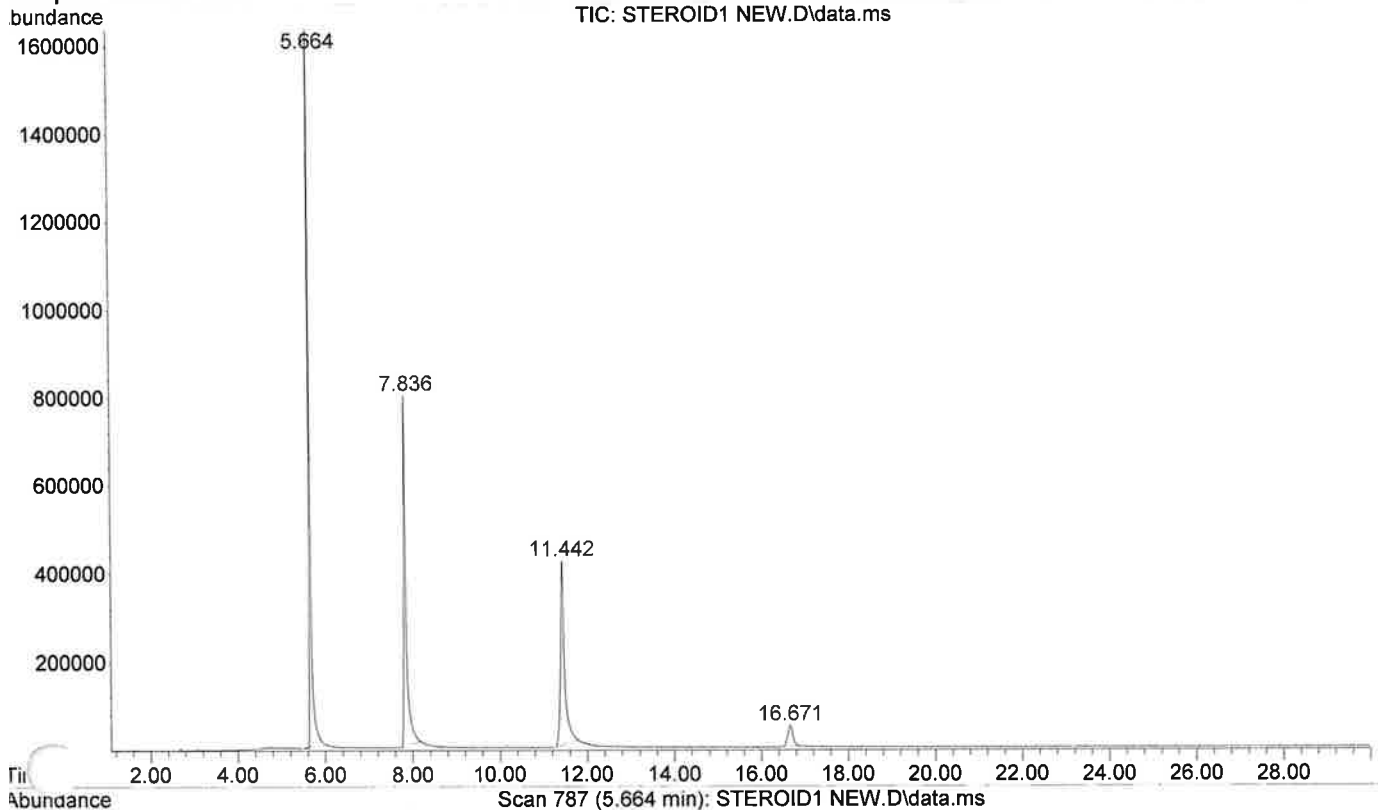


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 14:36
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL

Misc. Information: STERIOD MIX

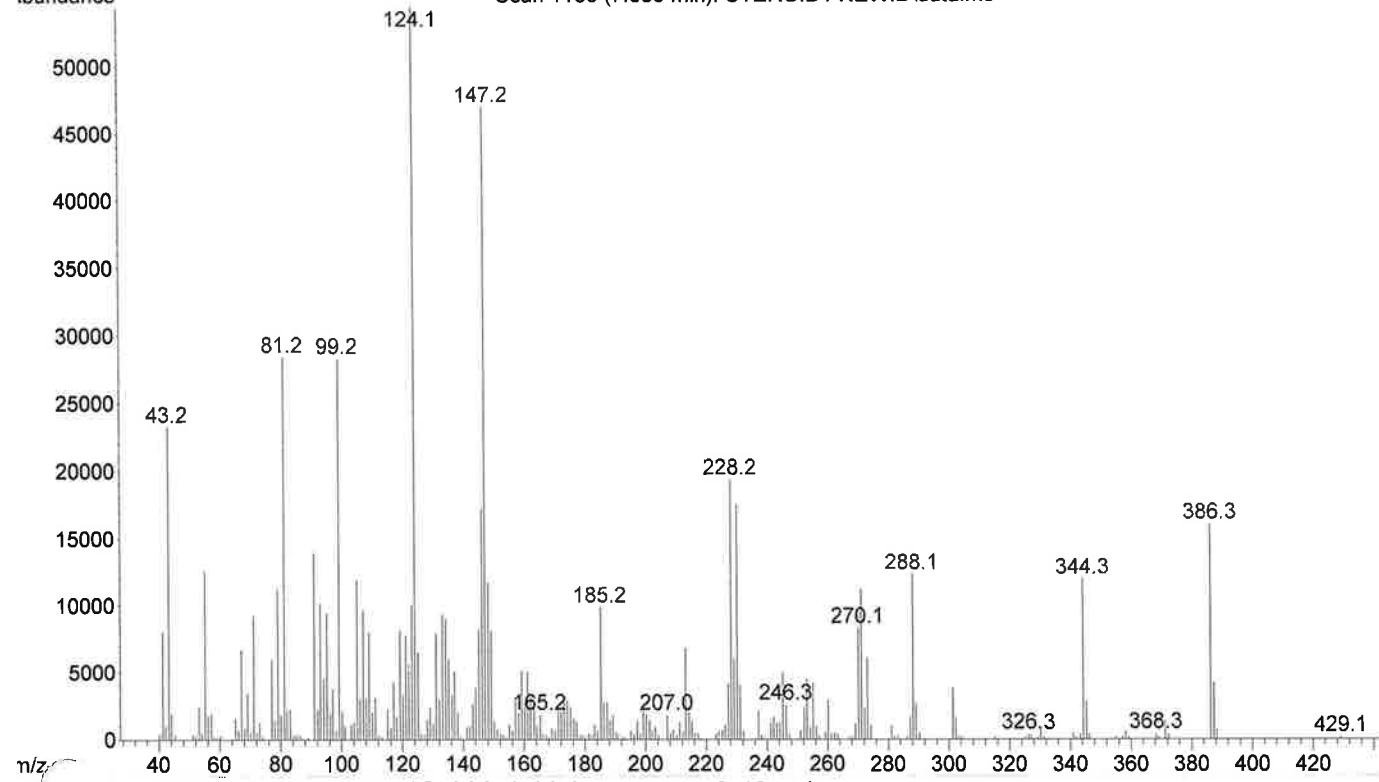
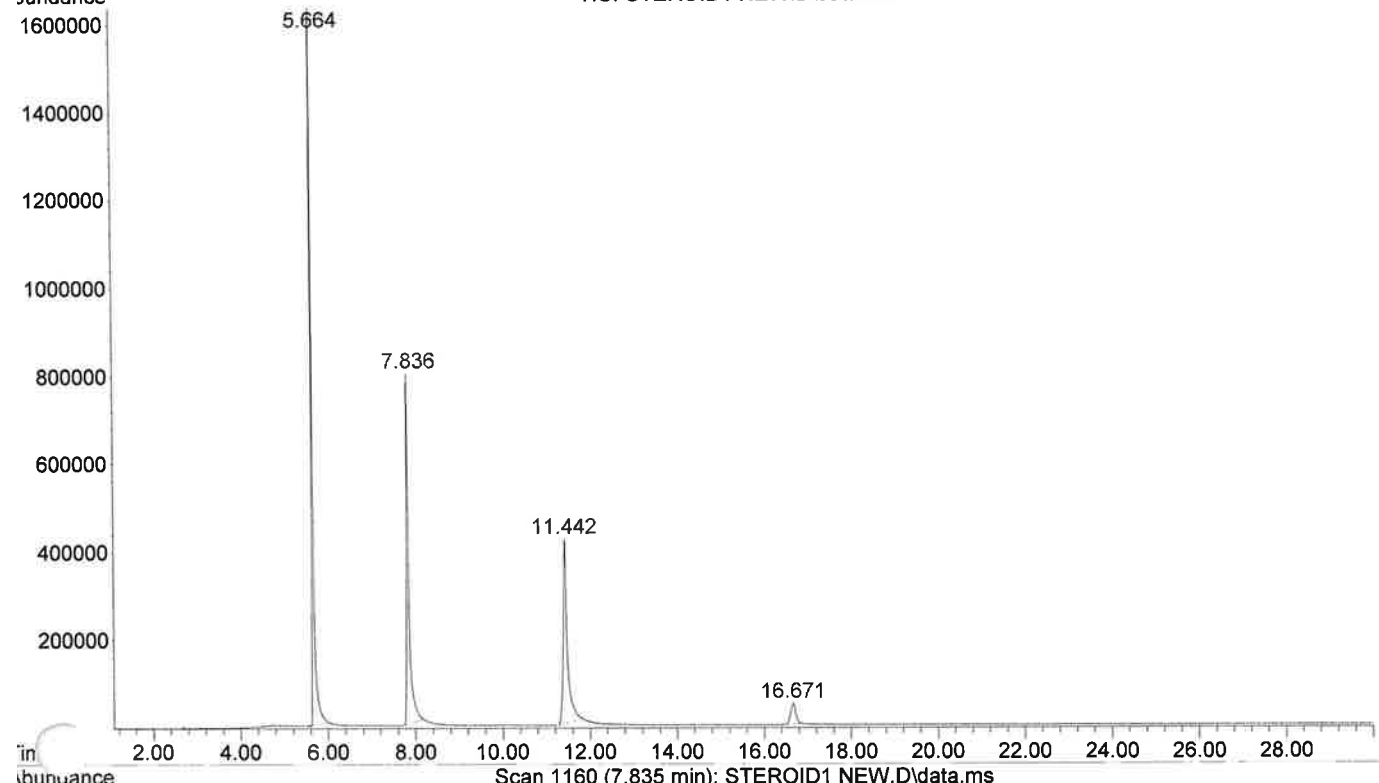
TIC: STERIOD1 NEW.D\data.ms



GC Inlet: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 14:36
File: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL Misc. Information: STERIOD MIX
TIC: STERIOD1 NEW.D\data.ms

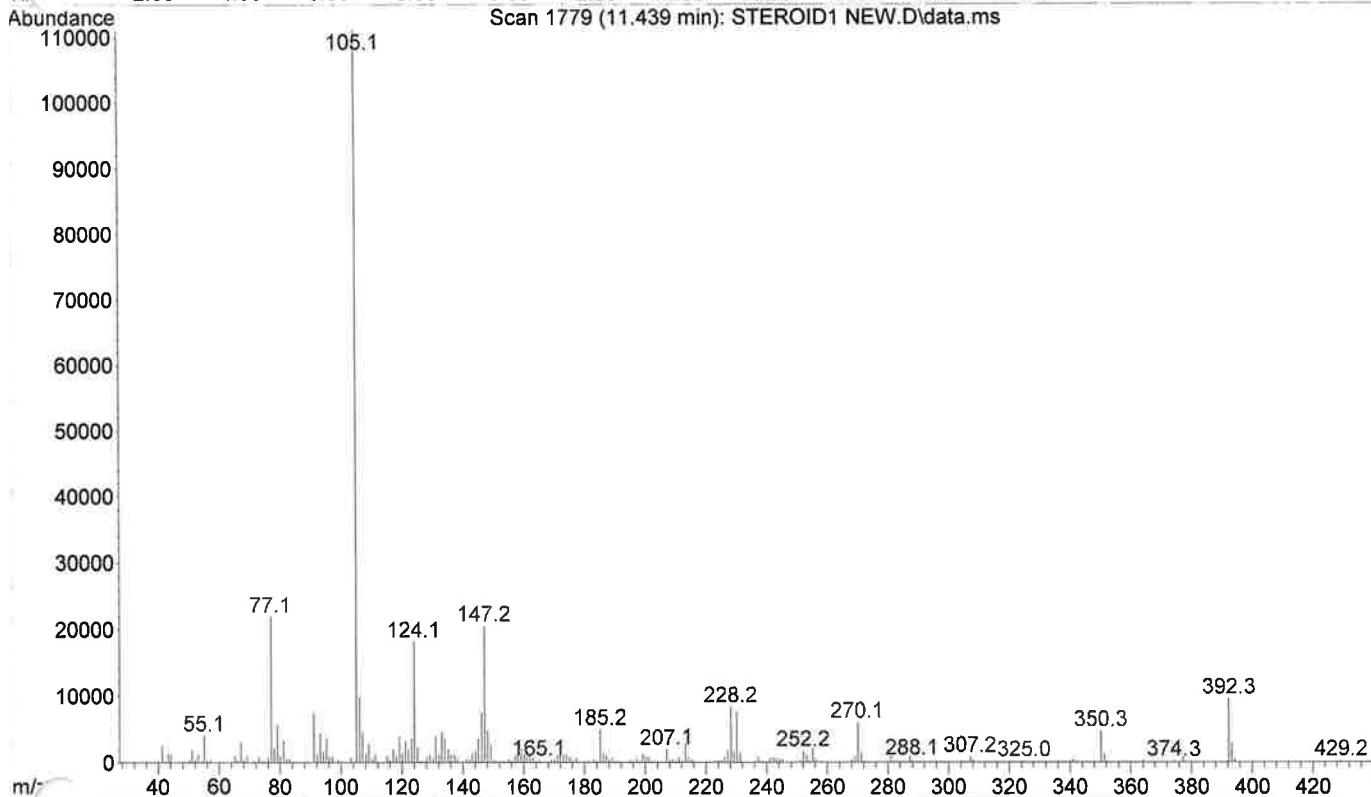
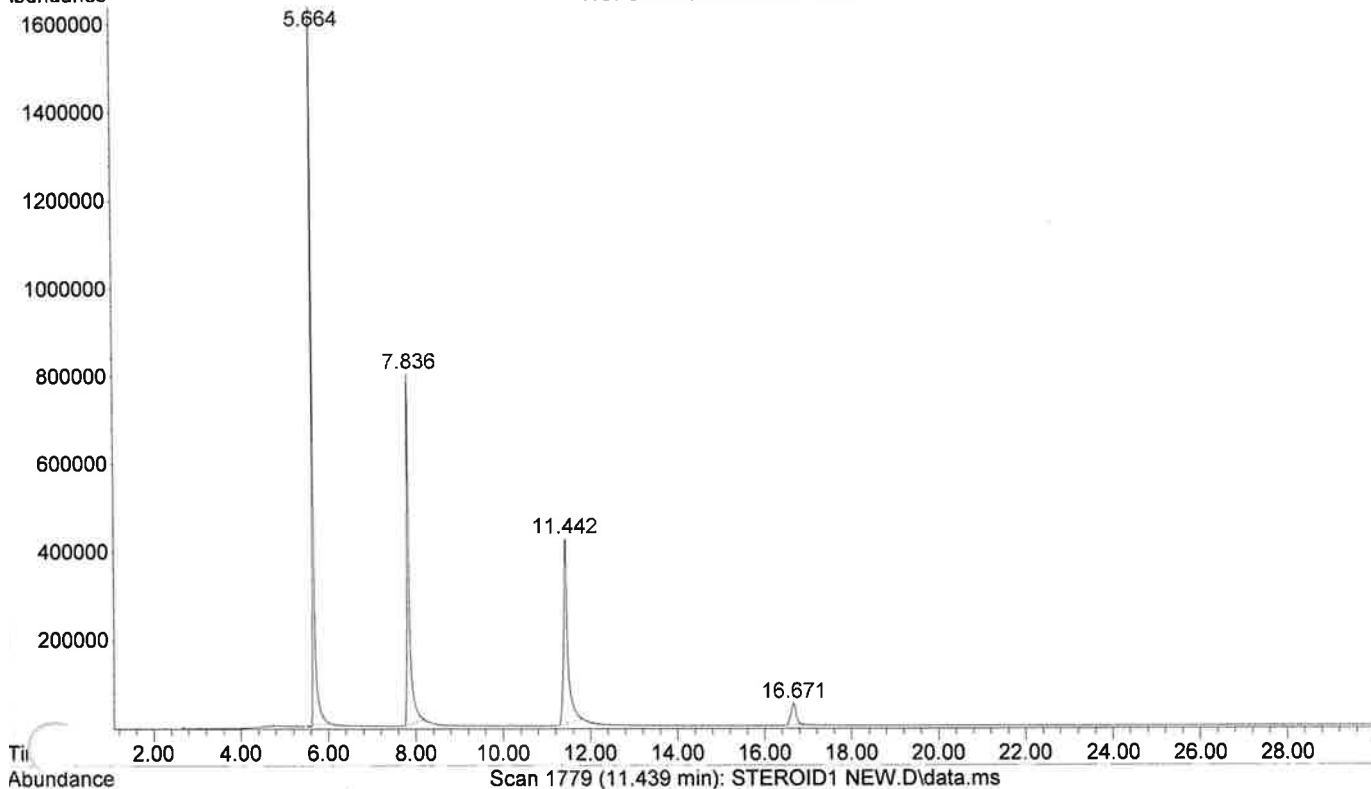
One



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 14:36
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL Misc. Information: STERIOD MIX
Abundance TIC: STERIOD1 NEW.D\data.ms

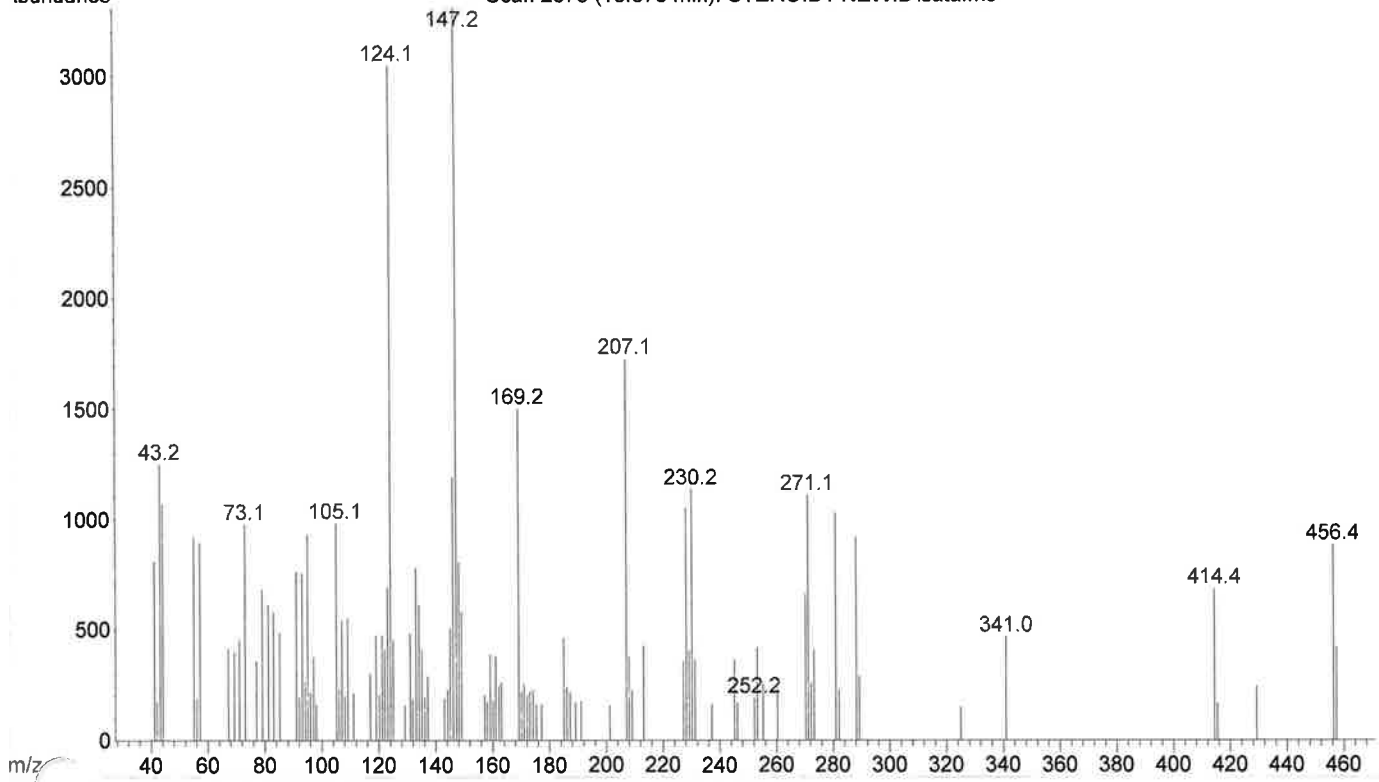
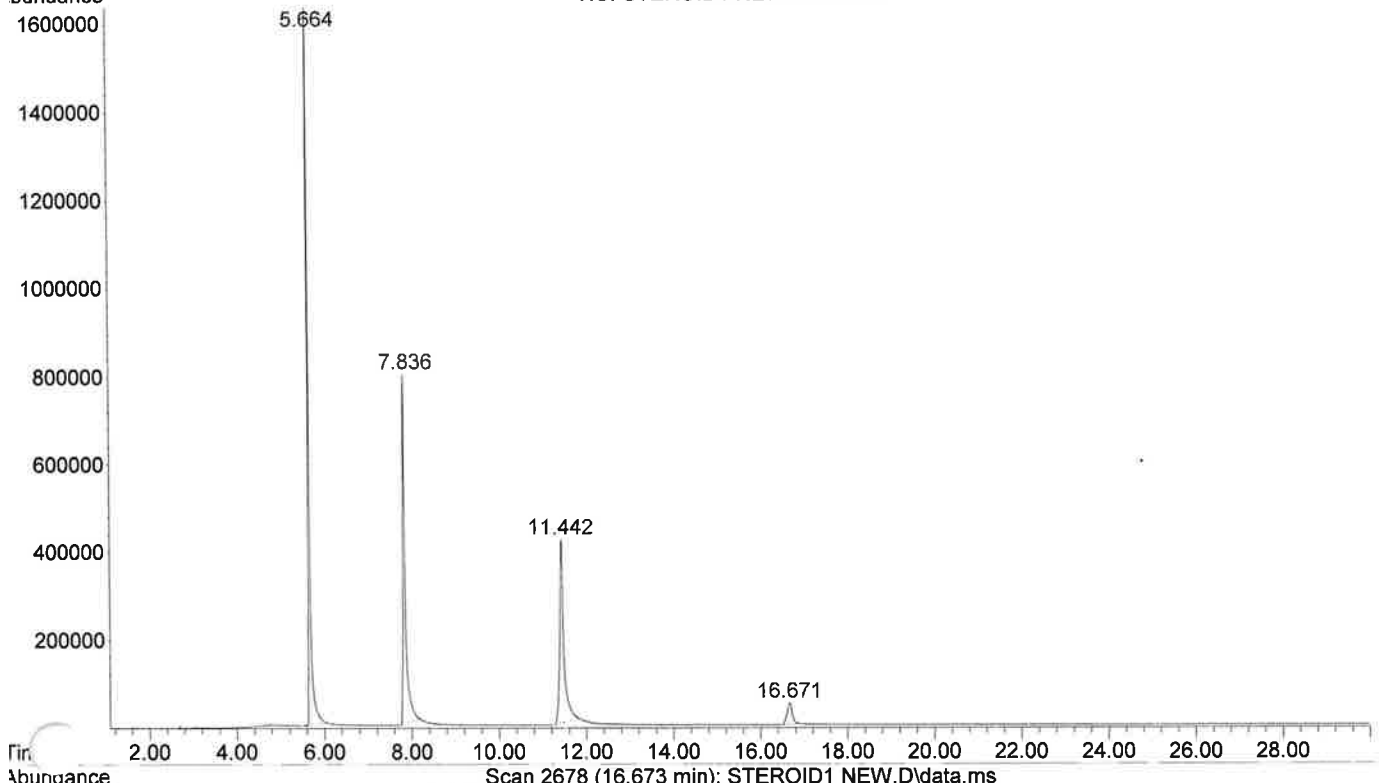
BMC



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 14:36
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL Misc. Information: STERIOD MIX
TIC: STERIOD1 NEW.D\data.ms

3me



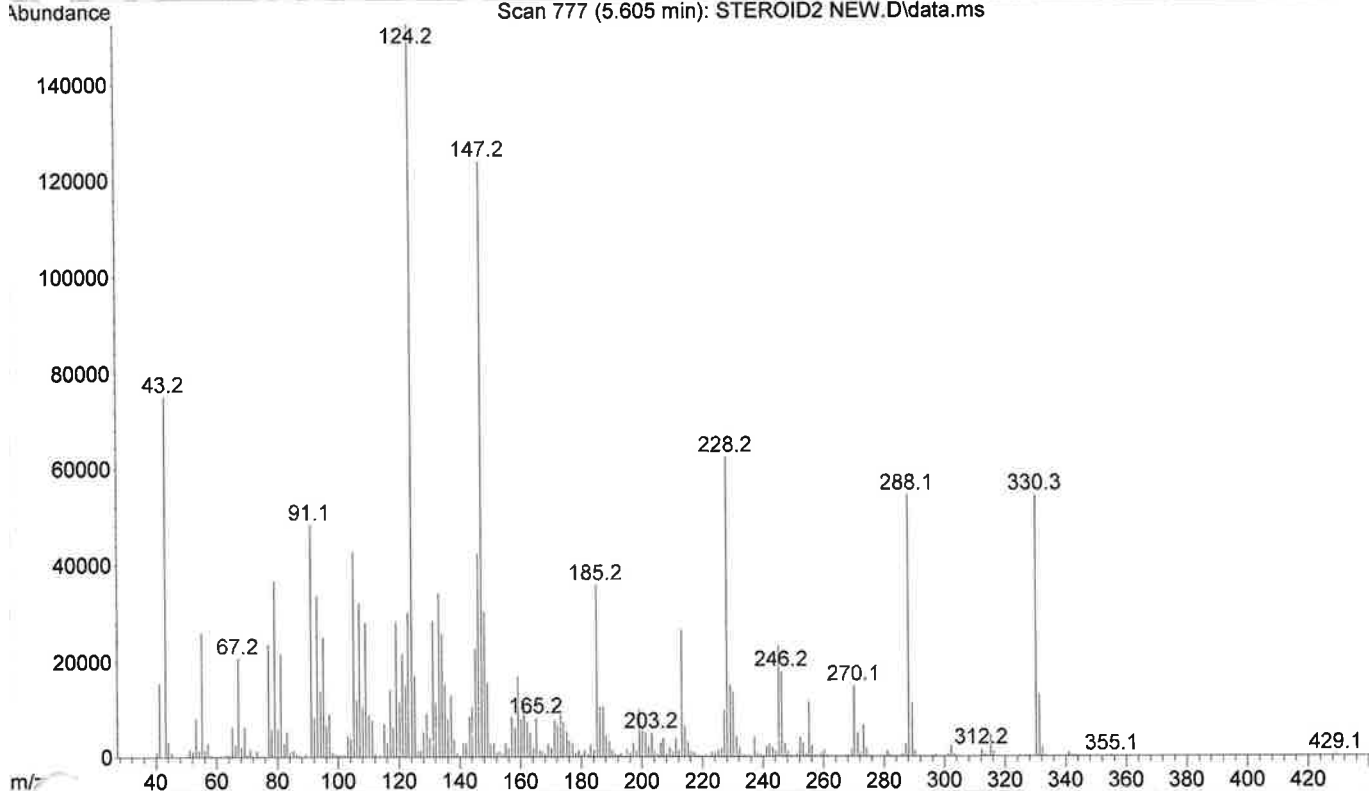
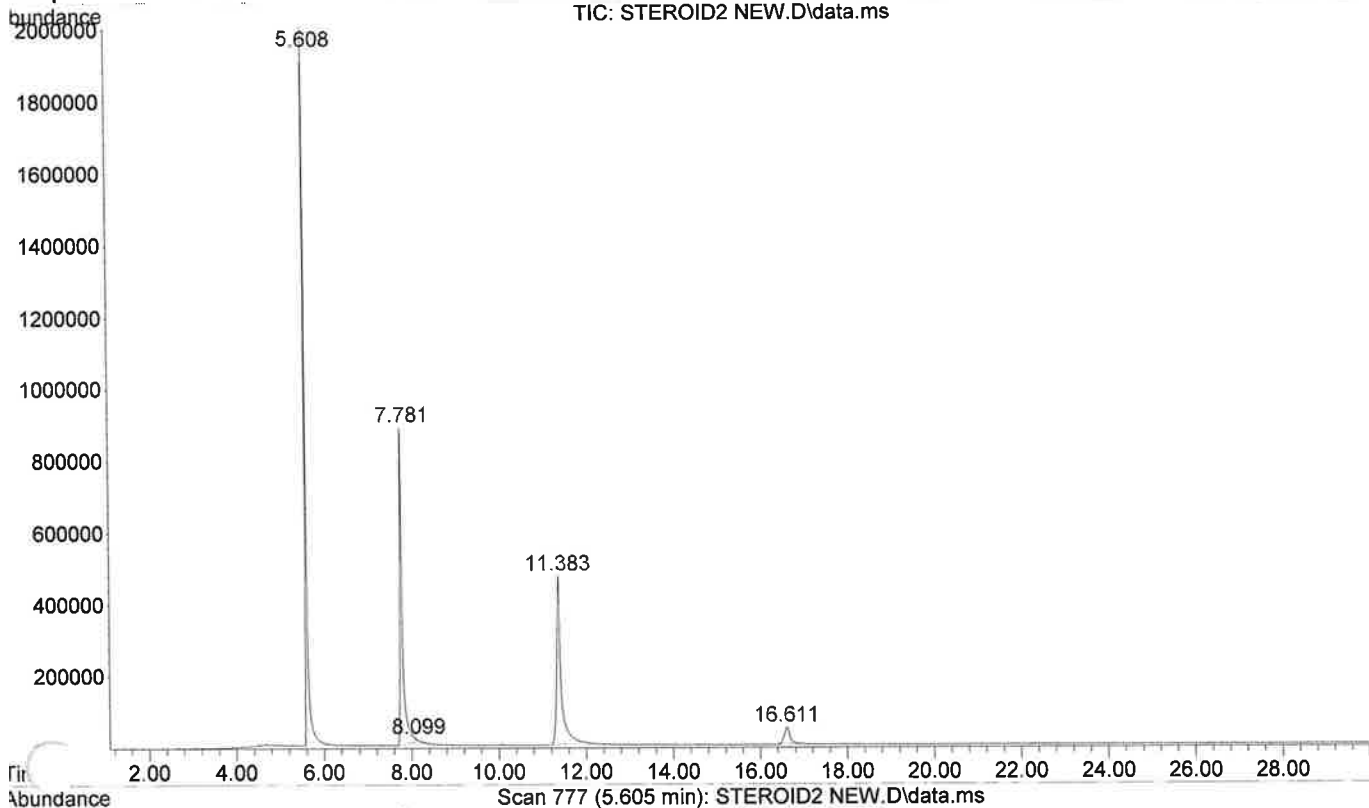
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID2 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 15:45
File: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL

SB

One

Misc. Information: STERIOD MIX
TIC: STERIOD2 NEW.D\data.ms

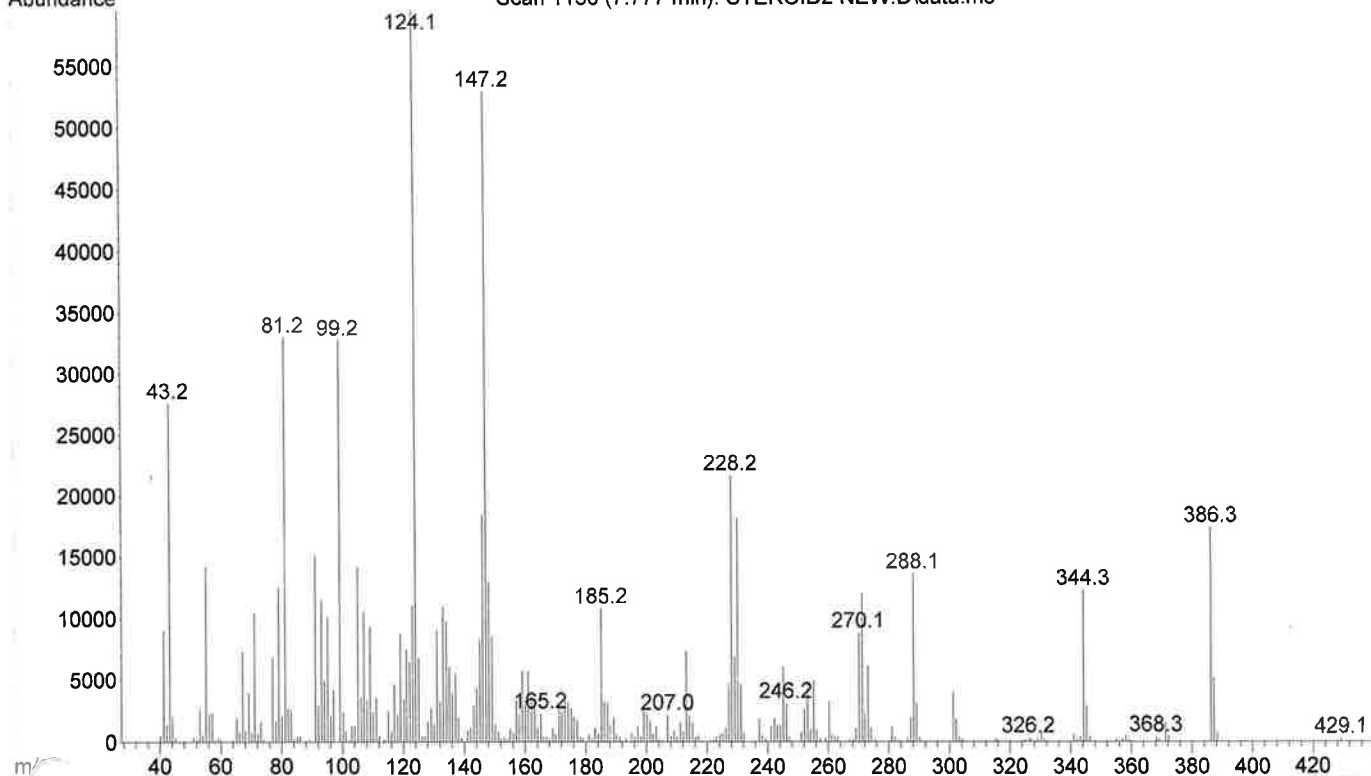
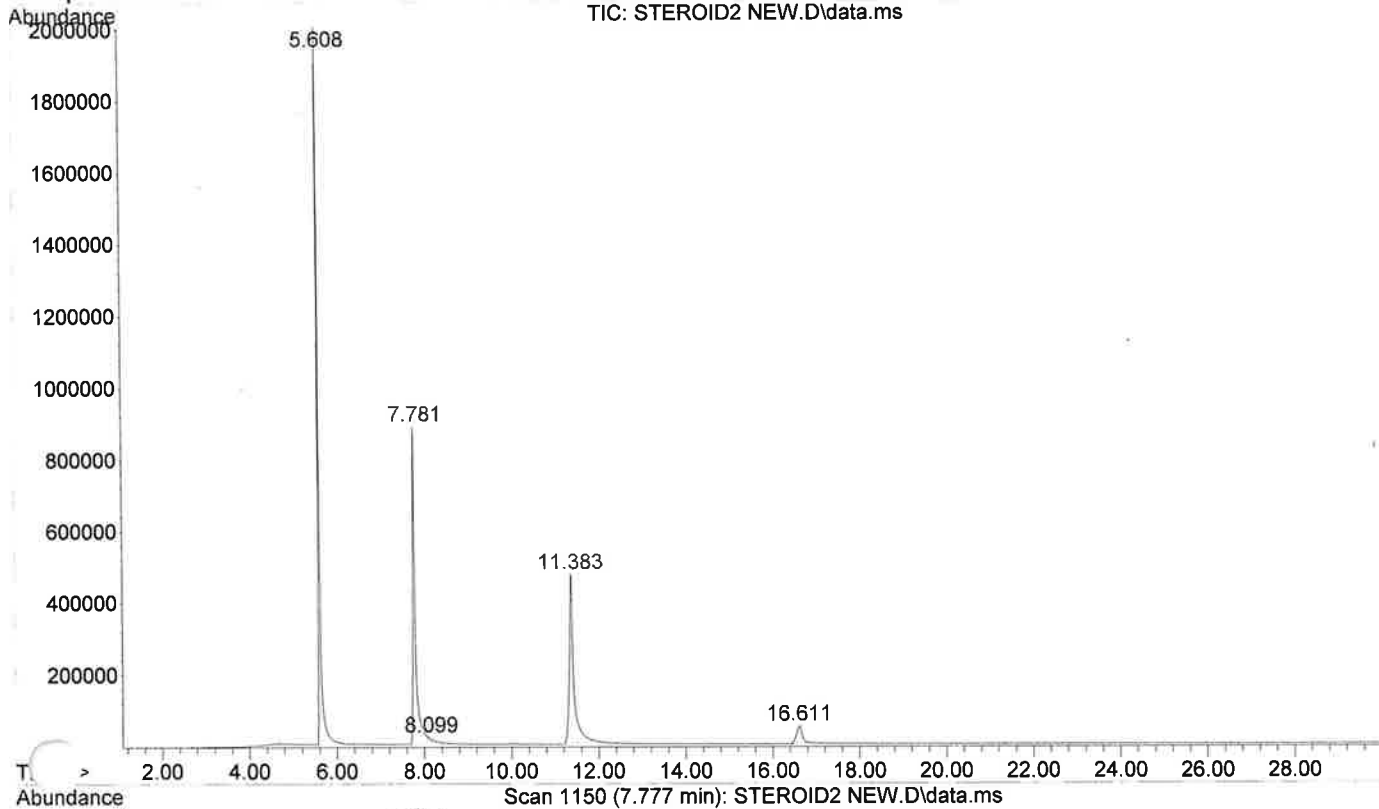


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID2 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 15:45
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL

Misc. Information: STERIOD MIX

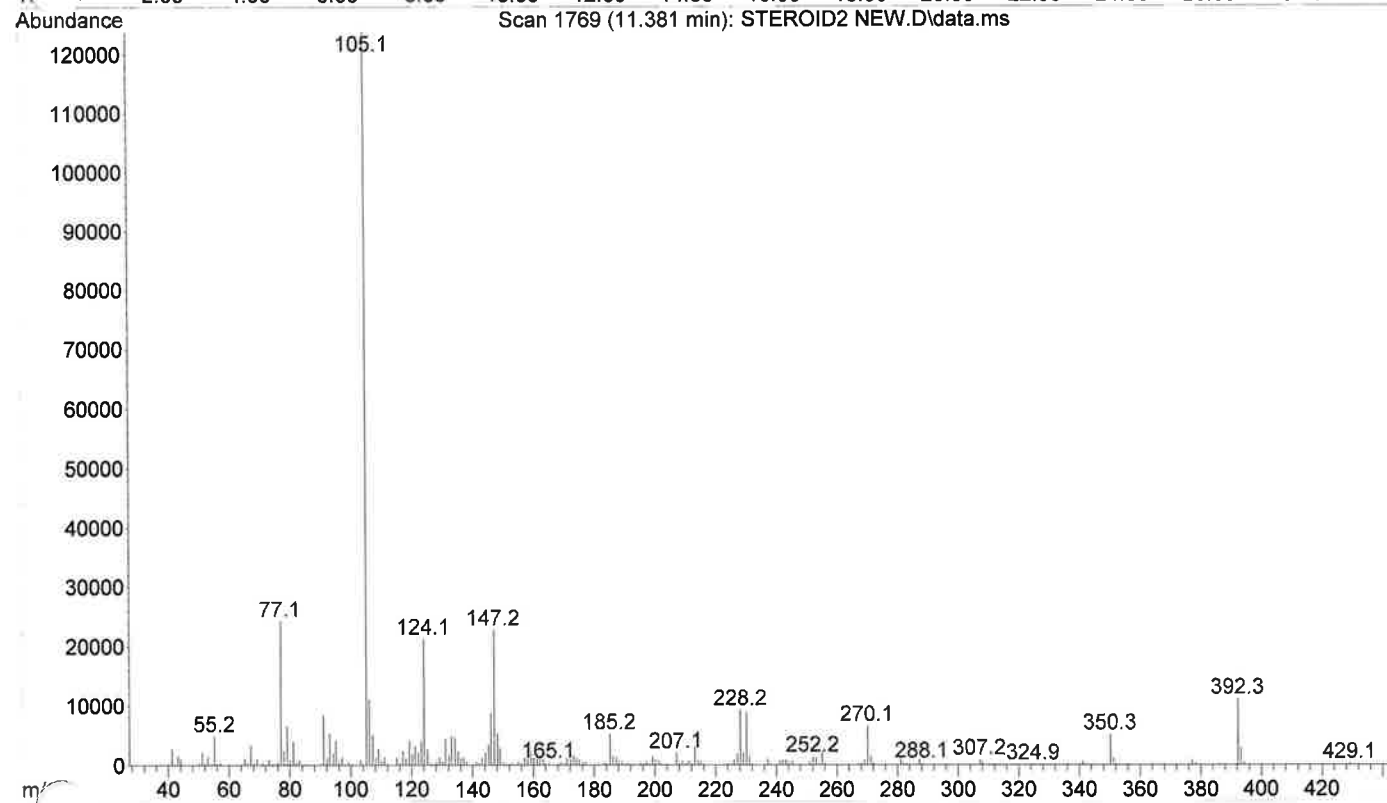
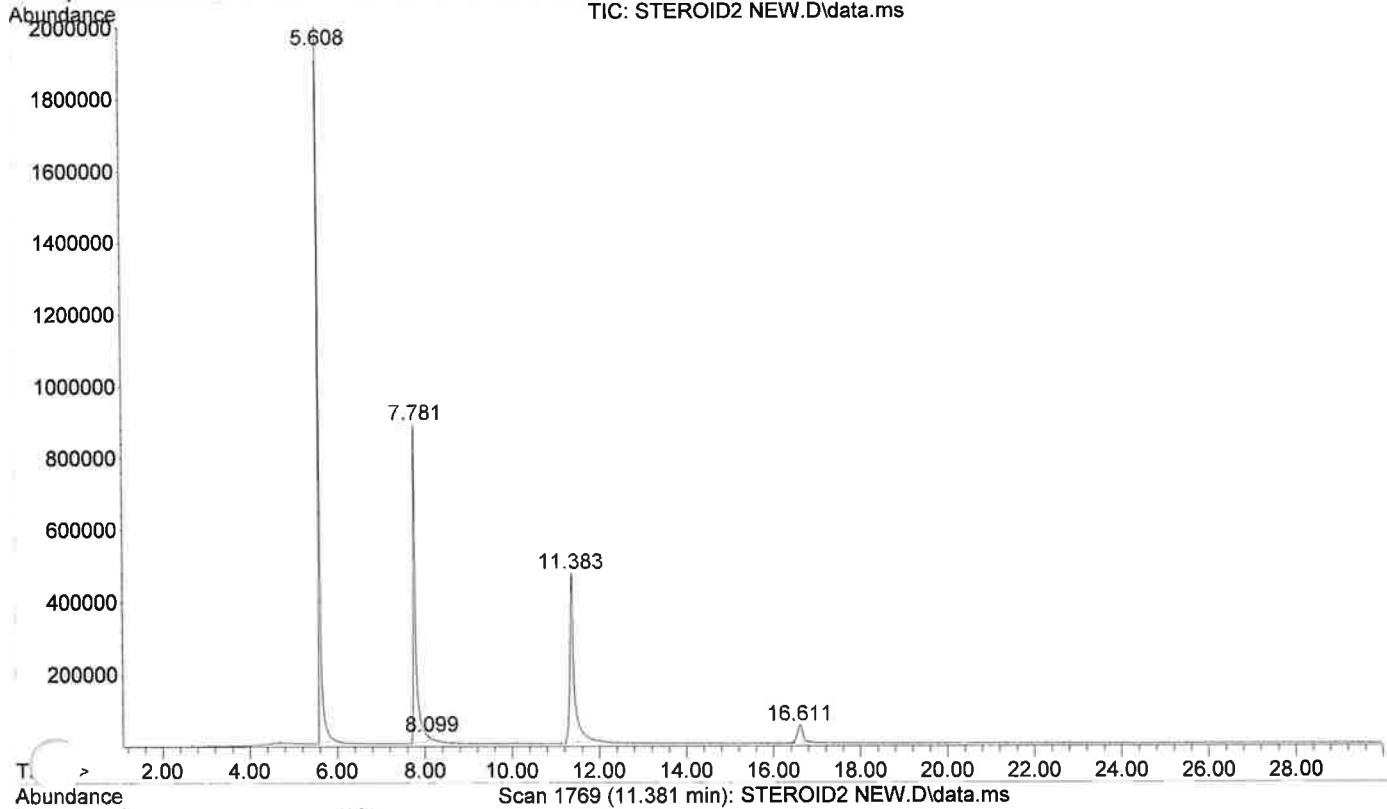
TIC: STERIOD2 NEW.D\data.ms



Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID2 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 15:45
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL Misc. Information: STERIOD MIX
TIC: STERIOD2 NEW.D\data.ms

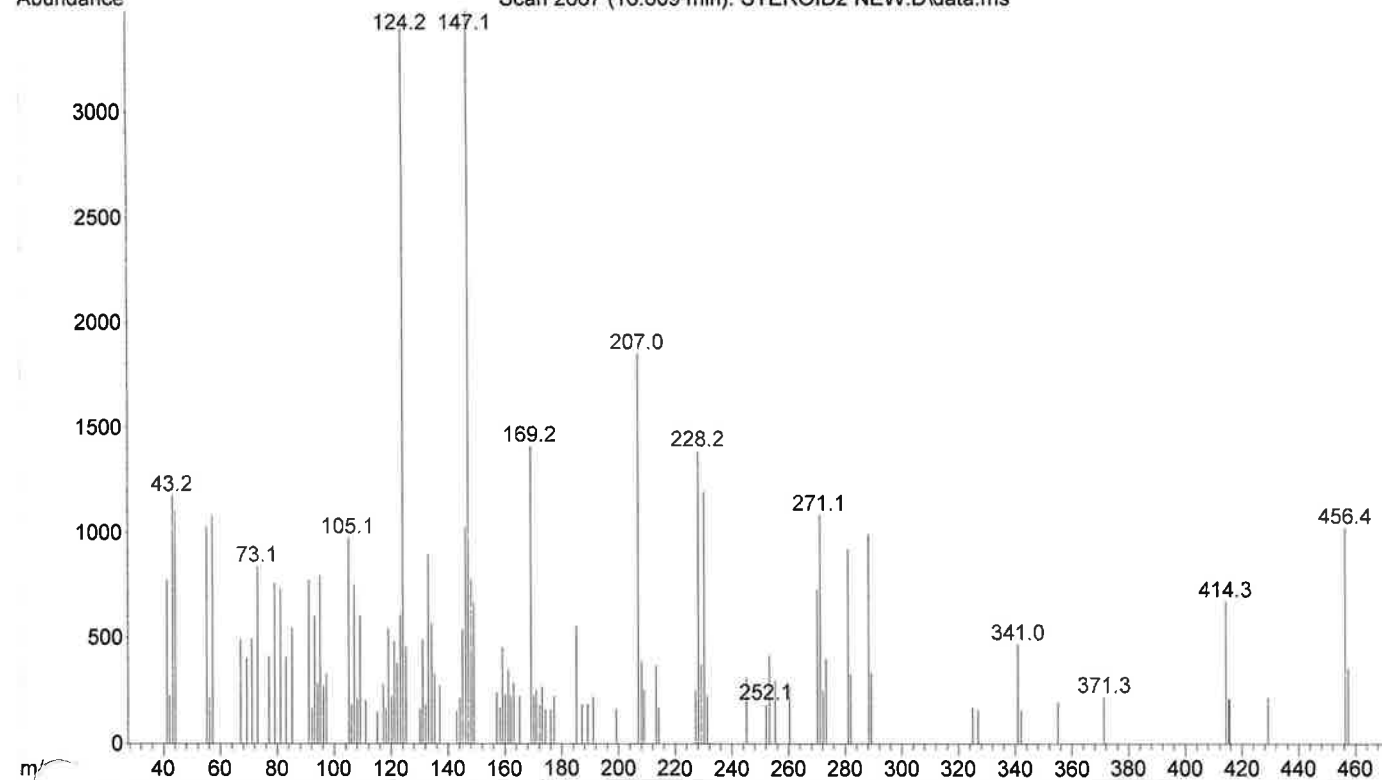
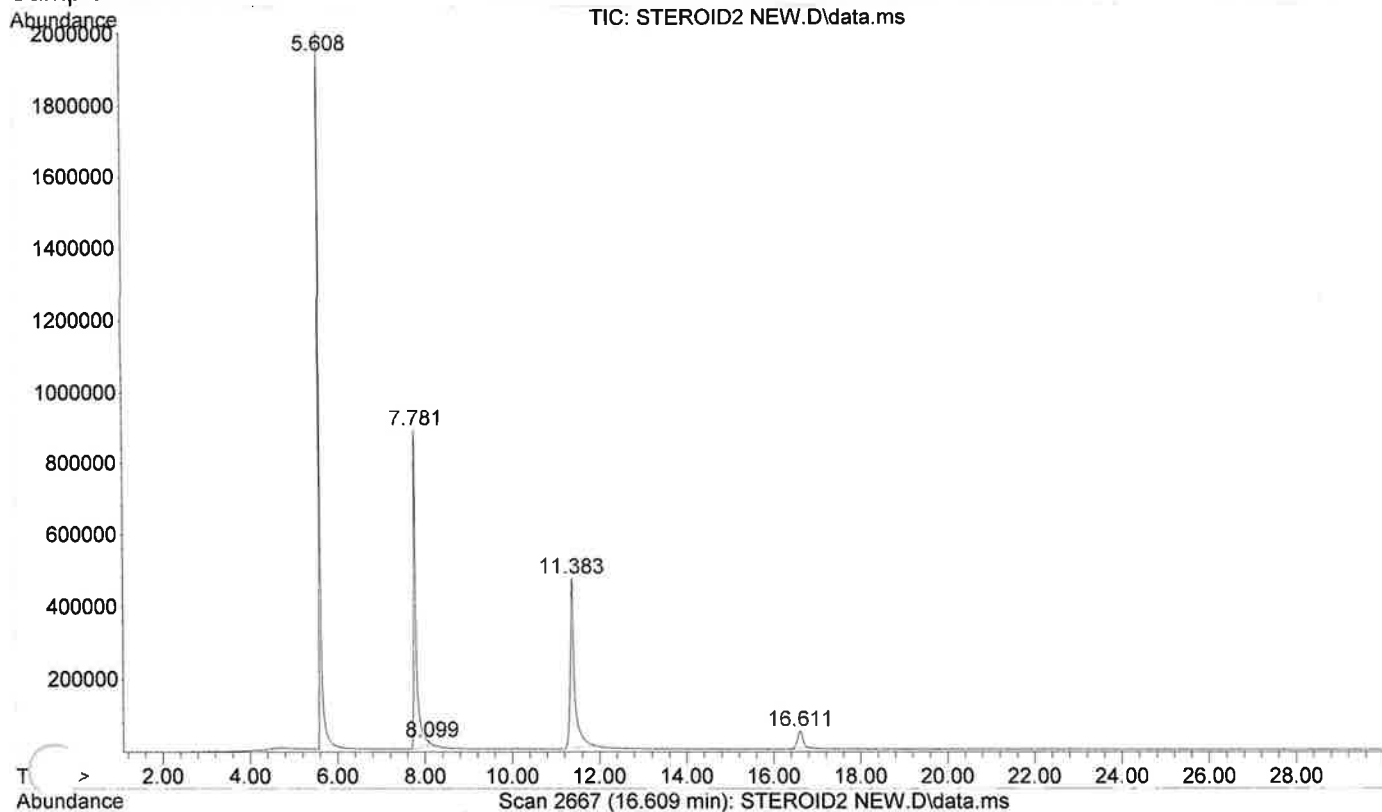
EW



GC, Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STERIOD2 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 15:45
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL Misc. Information: STERIOD MIX

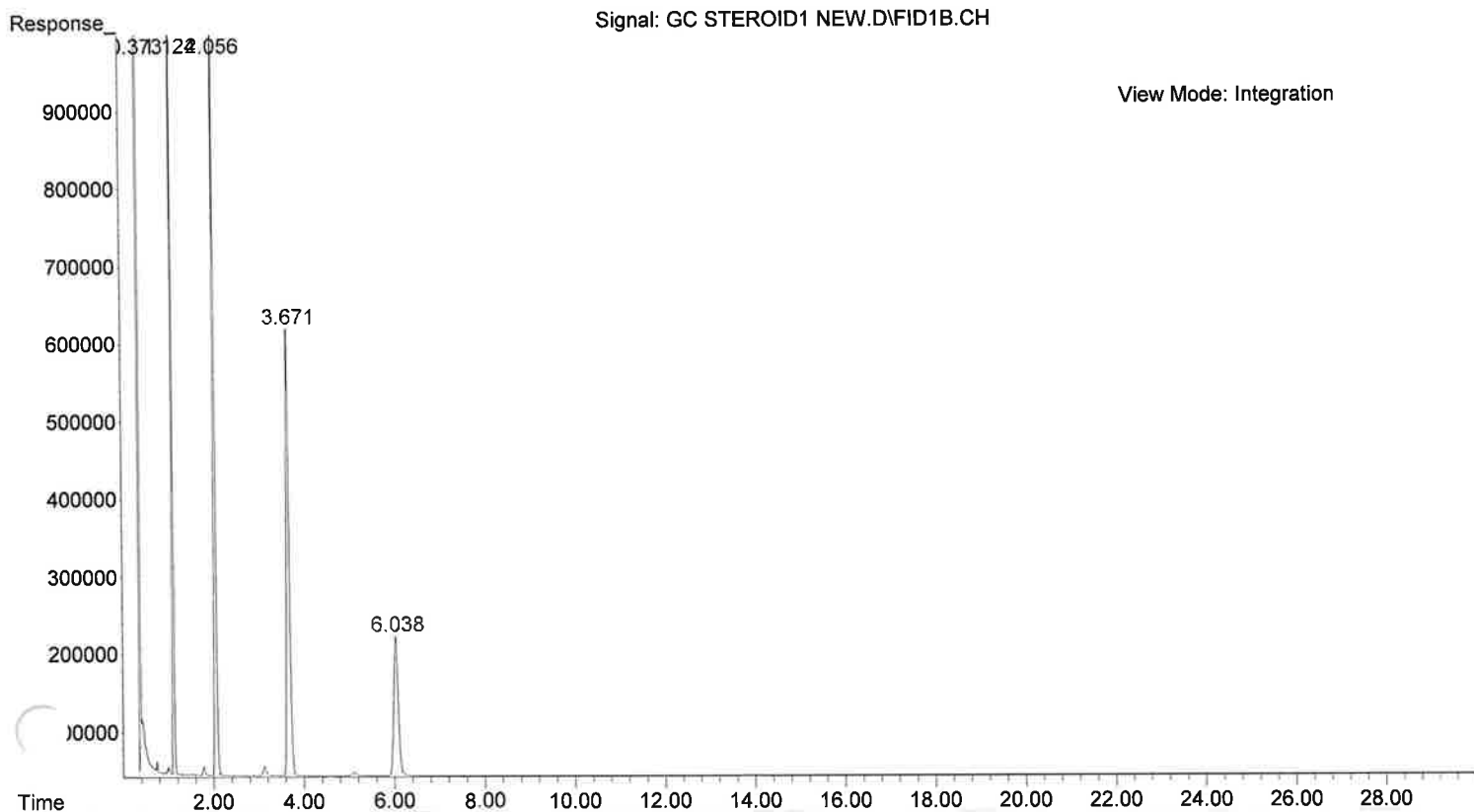
Bre



Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

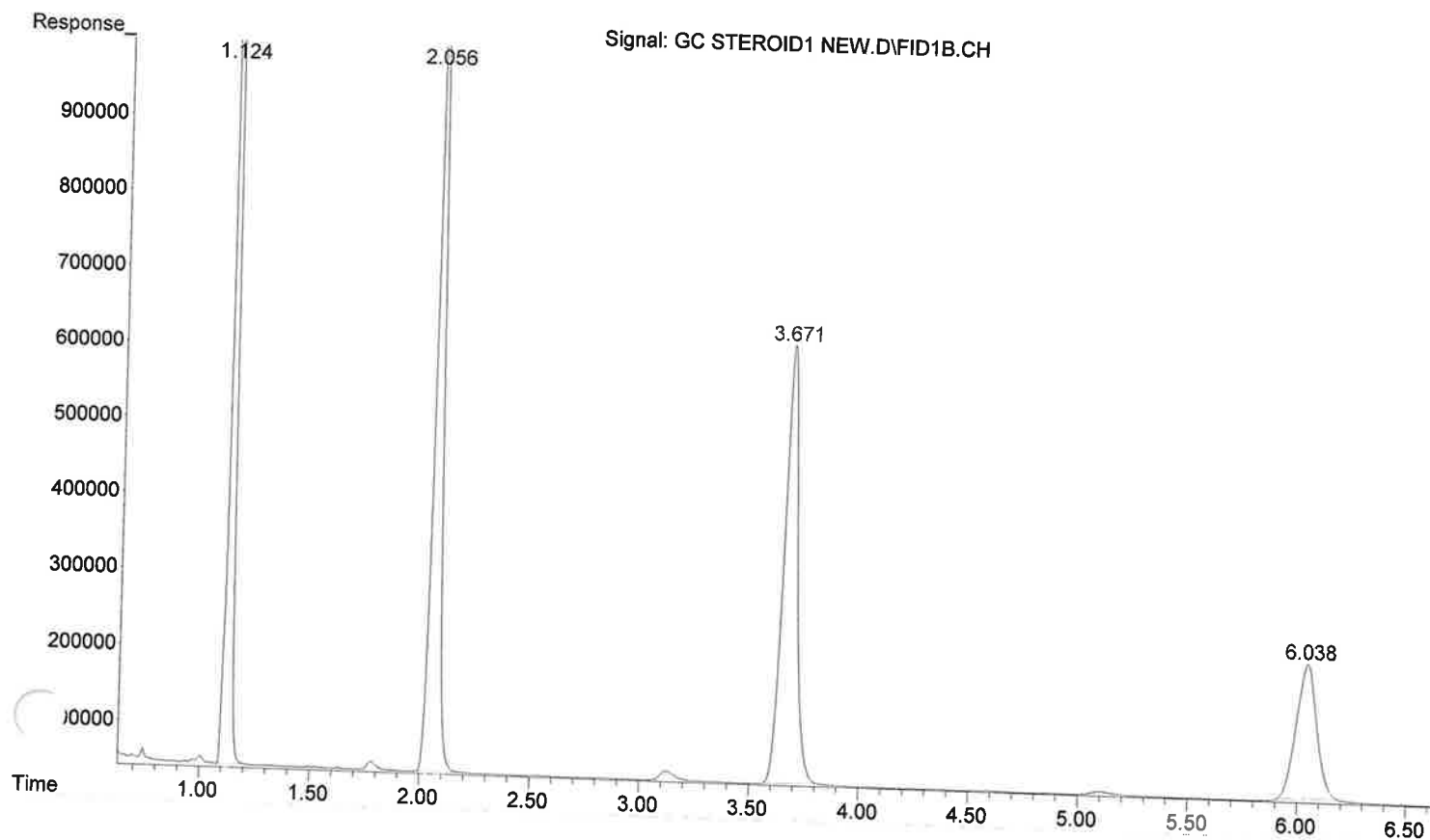
File Path: C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID1 NEW.D
Operator: WILLIAM STANTON
Acquired: 19-Jun-17, 16:51:01 using AcqMethod ASGC280ISOT1.M
Instrument: Graceland
Sample Name: METHANOL
Steroid: STEROID MIX
Vial Number: 0

Gme



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID1 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 16:51:01 using AcqMethod ASGC280ISOT1.M
Instrument : Graceland
Sample Name: METHANOL
Misc Info : STEROID MIX
Vial Number: 0

One

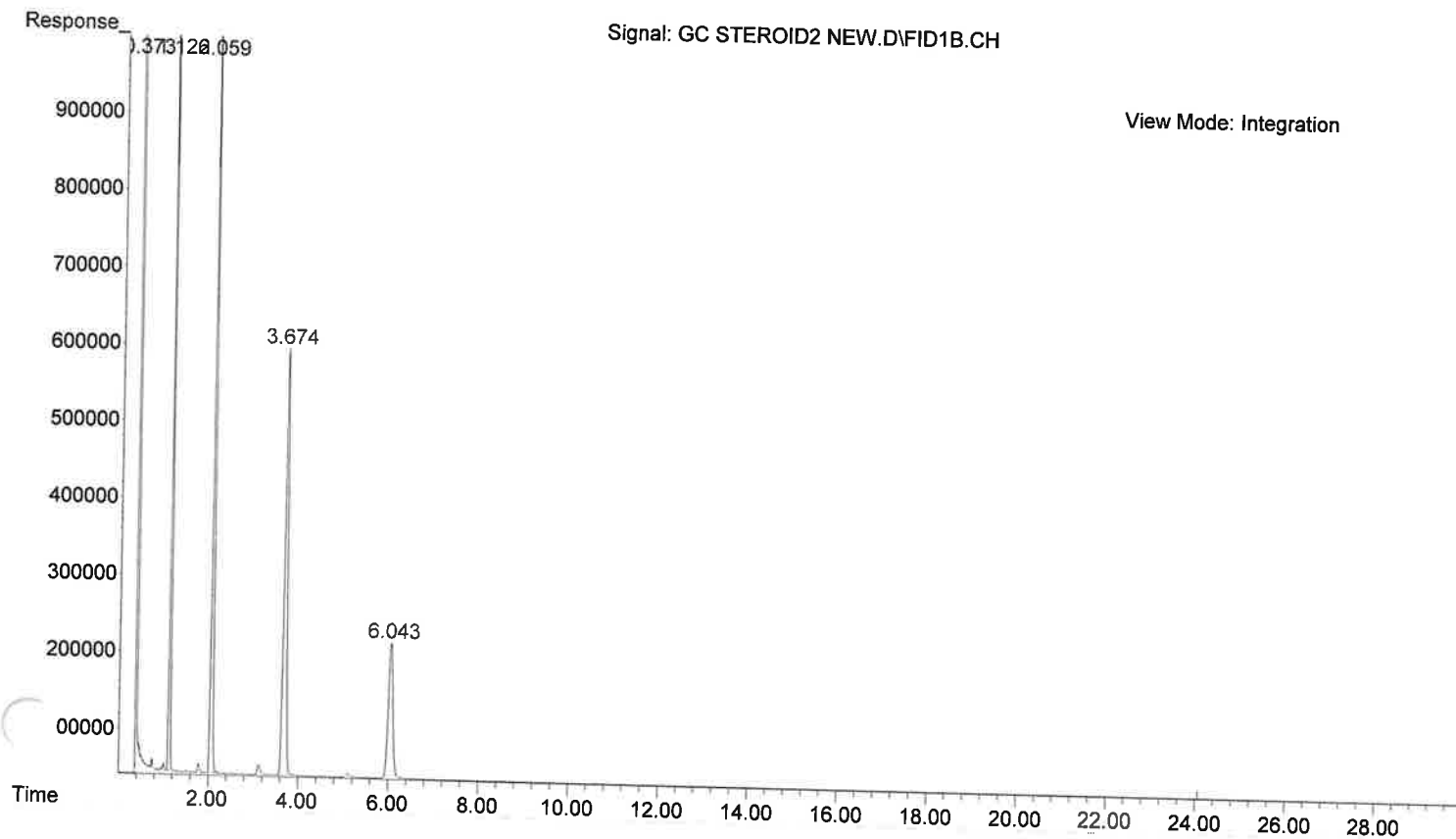


File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID2 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 17:55:18 using AcqMethod ASGC280ISOTI.M
Instrument : Graceland
Sample Name: METHANOL
Mi fo : STEROID MIX
Vial Number: 0

Eve

Signal: GC STEROID2 NEW.D\FID1B.CH

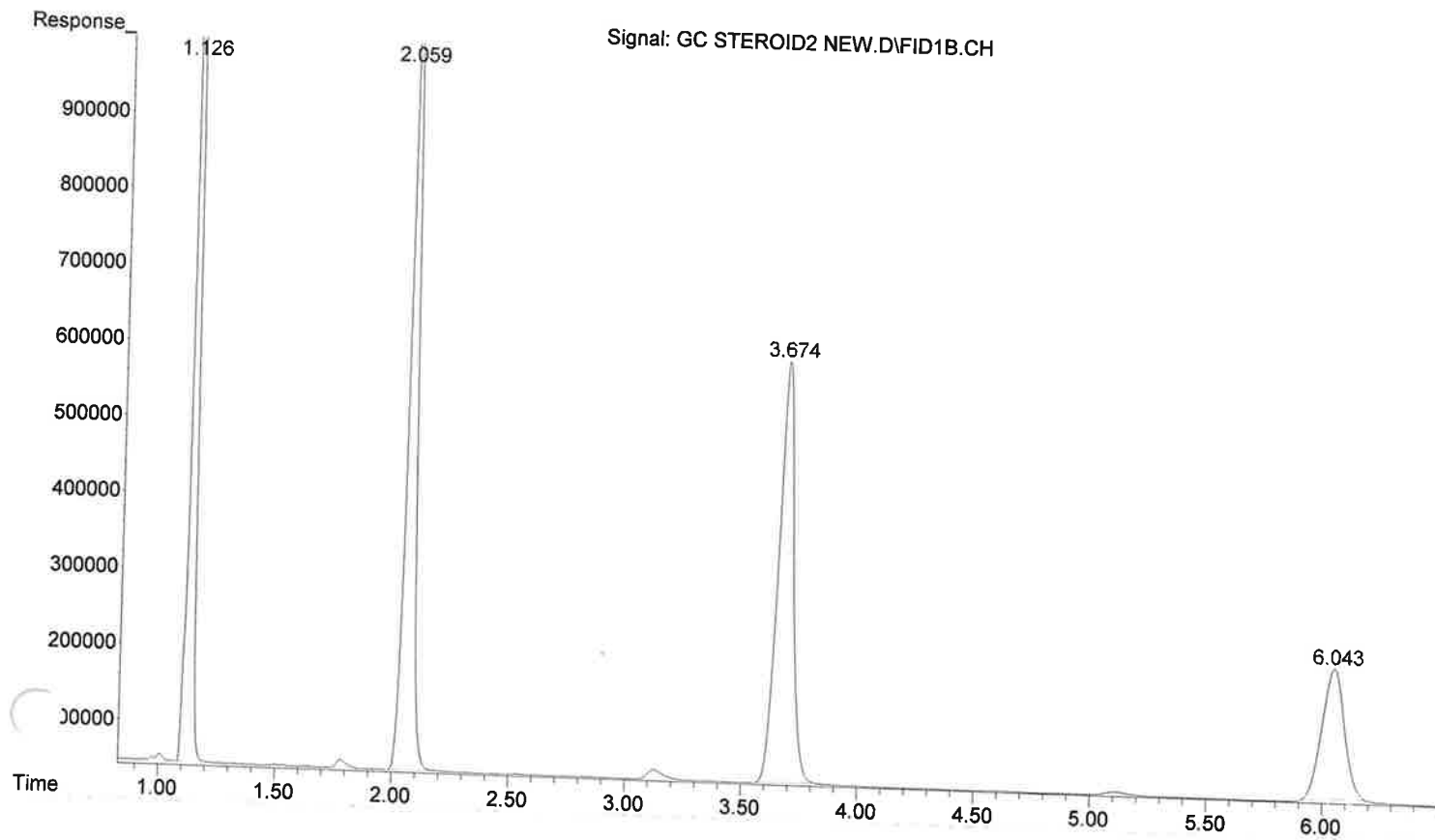
View Mode: Integration



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID2 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 17:55:18 using AcqMethod ASGC280ISOT1.M
Instrument : Graceland
Sample Name: METHANOL
Mix Info : STEROID MIX
Vial Number: 0

JS

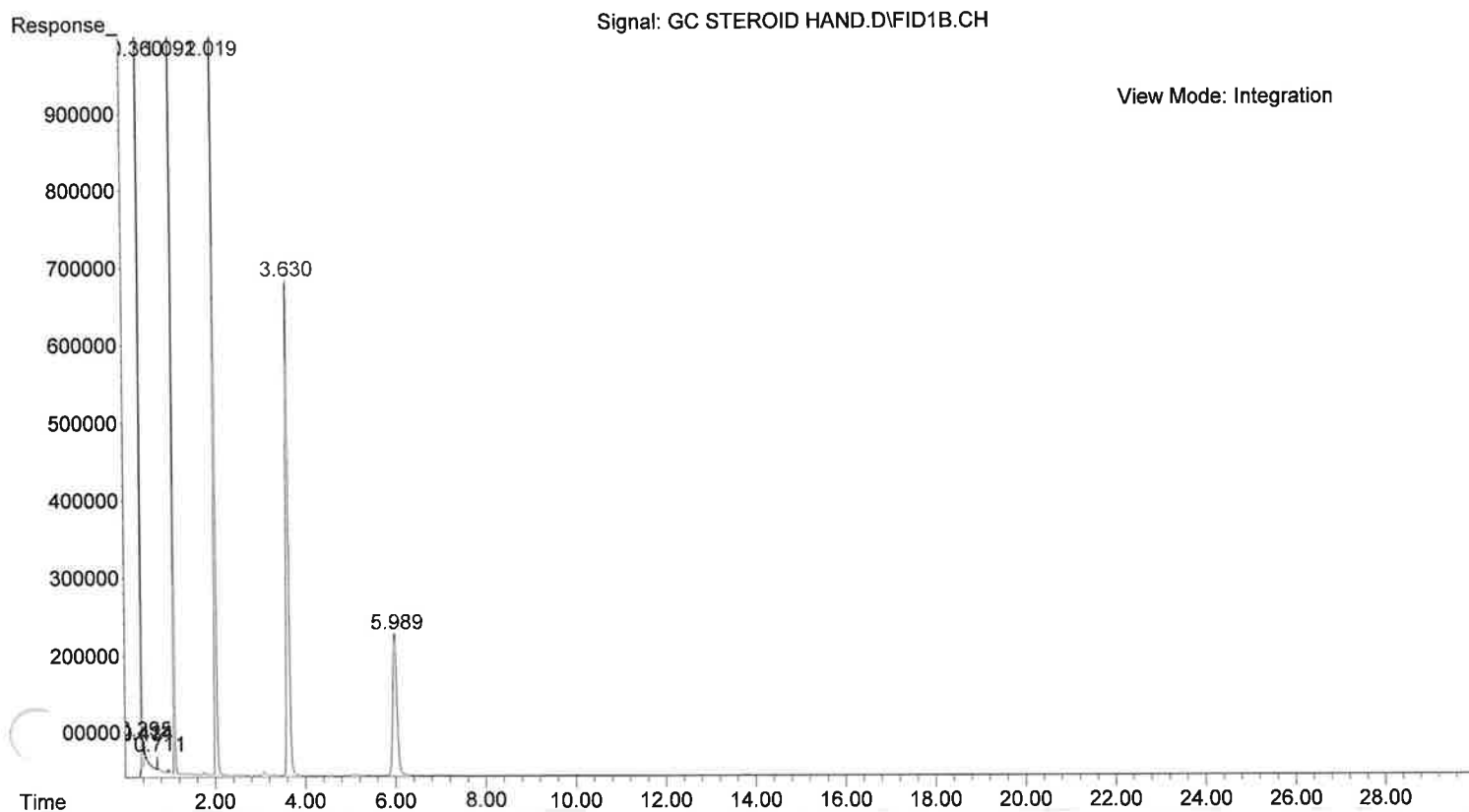
me



le :C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\GC STEROID HAND.D
perator :
quired : 23-Jun-17, 10:40:24 using AcqMethod GC280ISOT1.M
strument : Graceland
ample Name:
li ifo :
ial Number: 1

6545

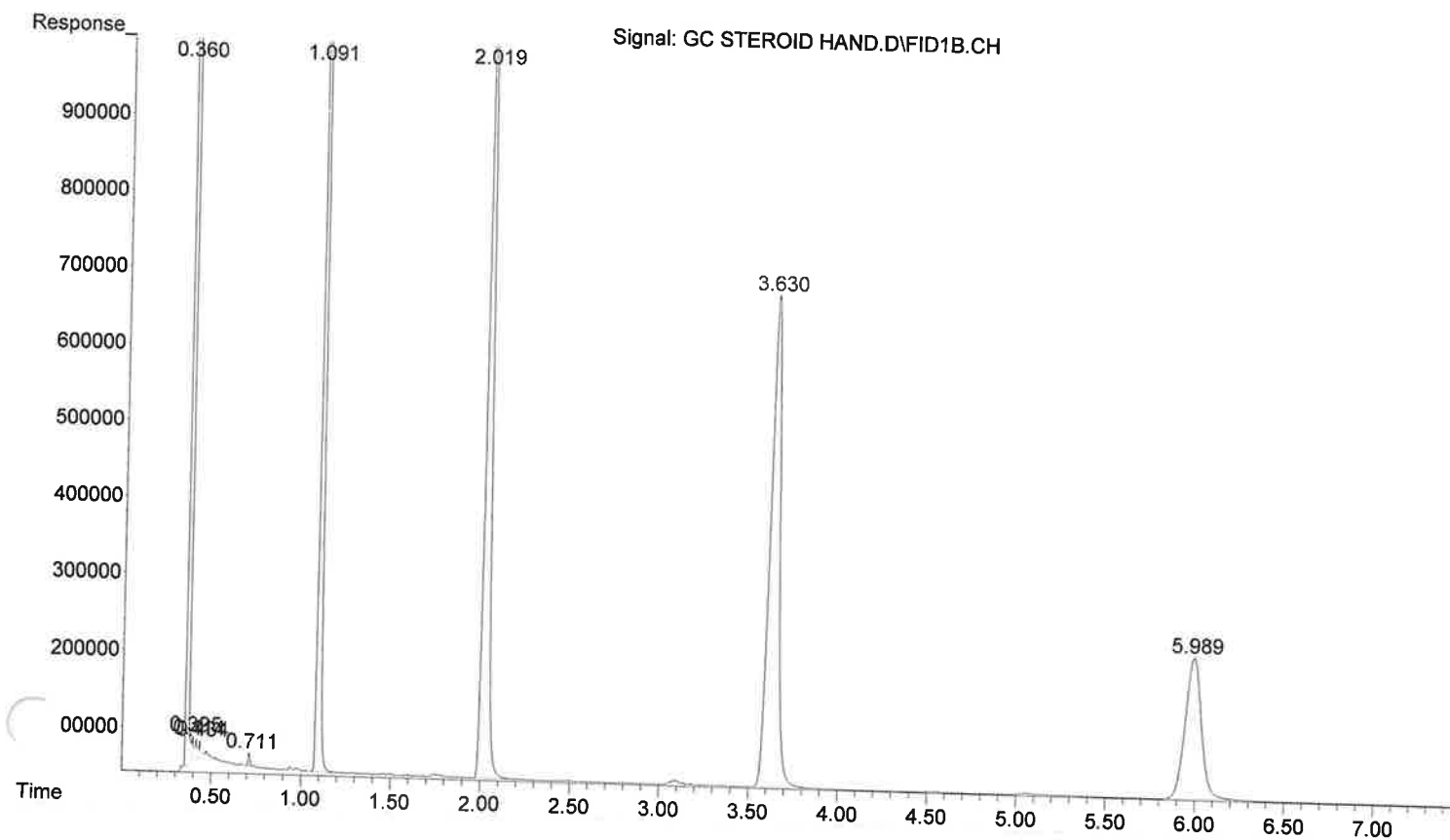
Emc



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\GC STEROID HAND.D
Operator :
Acquired : 23-Jun-17, 10:40:24 using AcqMethod GC280ISOTI.M
Instrument : Graceland
Sample Name:
Mi tfo :
Vial Number: 1

CSX

BMC



Forensic Chemistry Performance Verification

Gas Chromatograph (Model 6890 Serial Number CN42229050)

Mass Spectrometer (Model 5973N Serial Number US03960484)

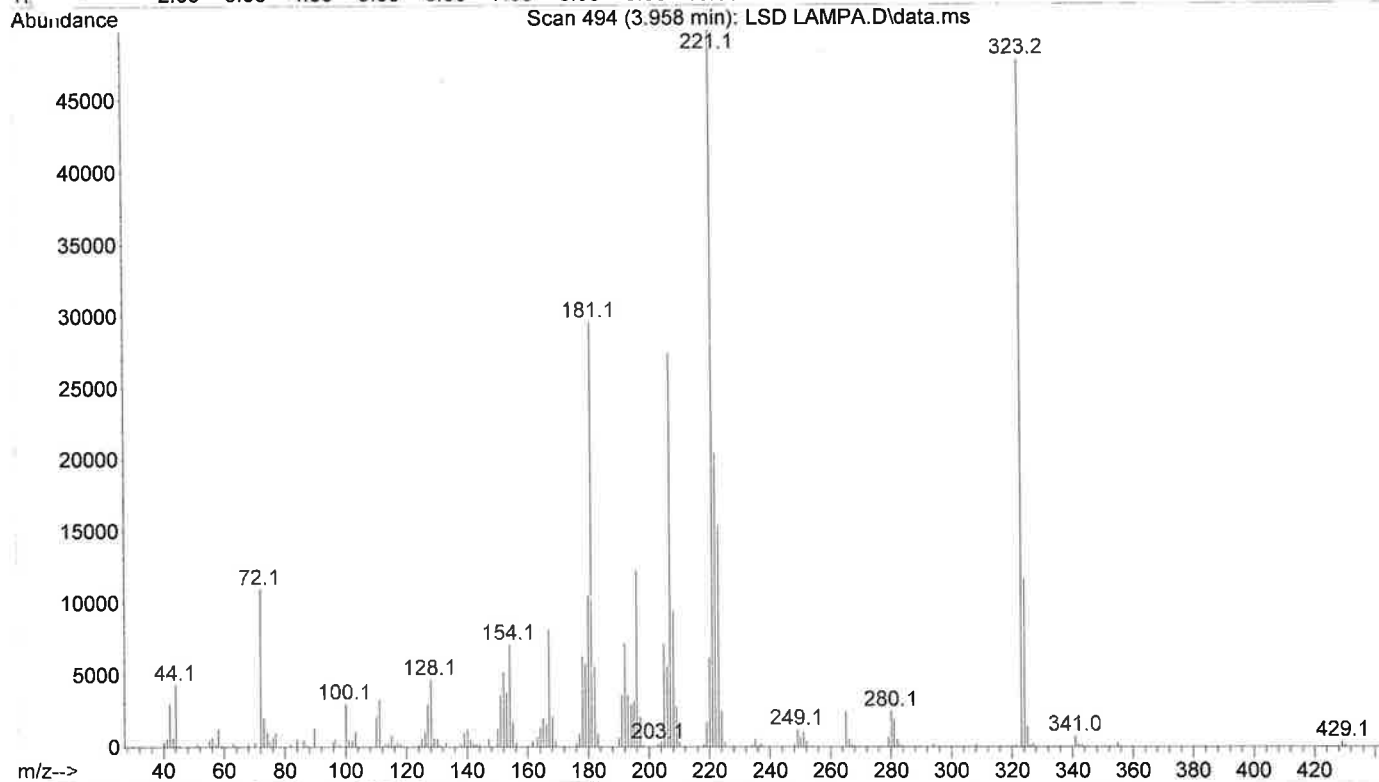
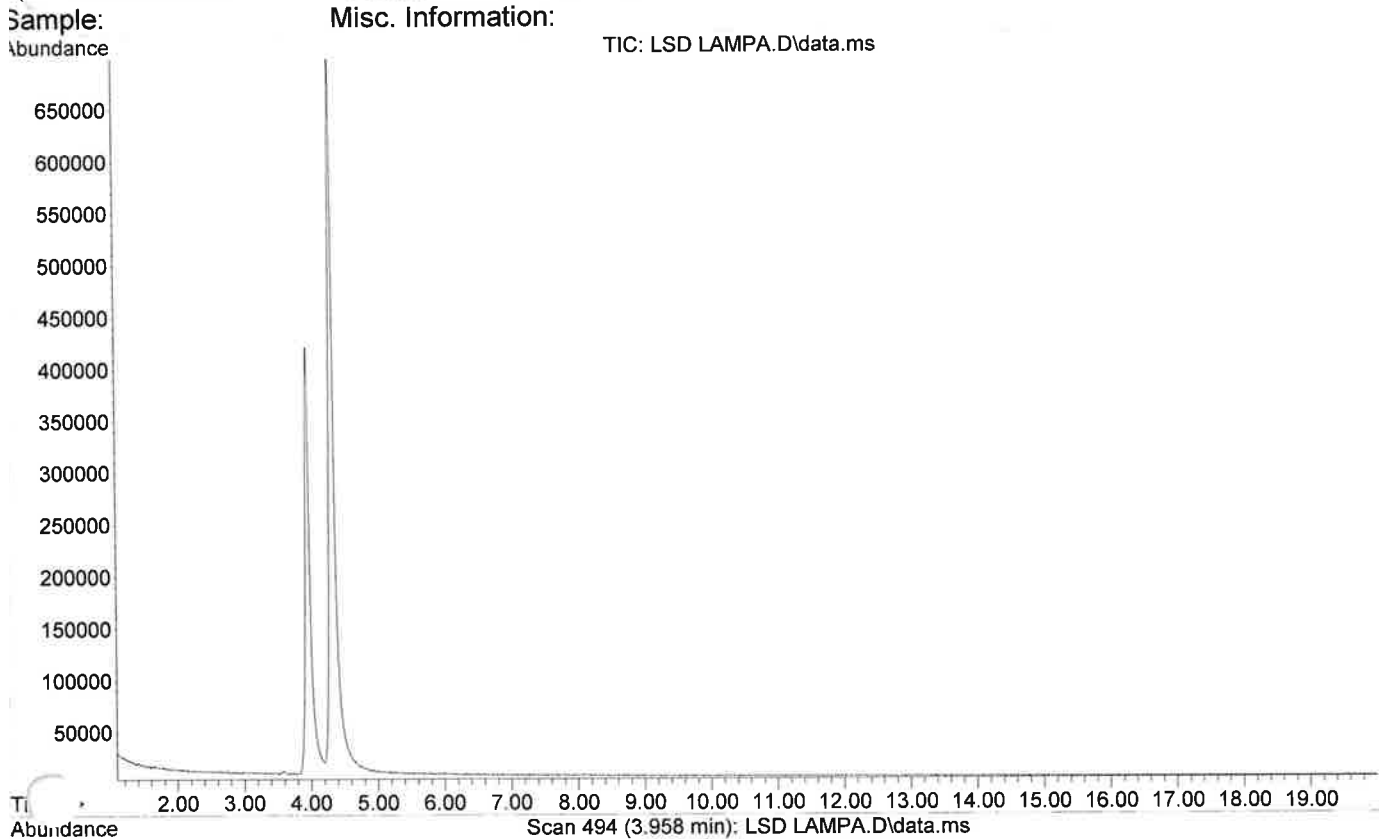
TBI FCU ID – Graceland

- LSD and LAMPA Standard RT Comparisons*

Method	Compound	RT	Acceptable variance ($\pm 2\%$)	Repeat RT
ASMS280ISO	LSD	3.983	± 0.080	3.980
	LAMPA	4.365	± 0.087	4.362
ASGC280ISO	LSD	2.020	± 0.040	2.017
	LAMPA	2.190	± 0.044	2.187

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\LSD LAMPA.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 27 Jun 2017 9:58
Path: C:\MSDCHEM\1\METHODS\MS280\ISO.M

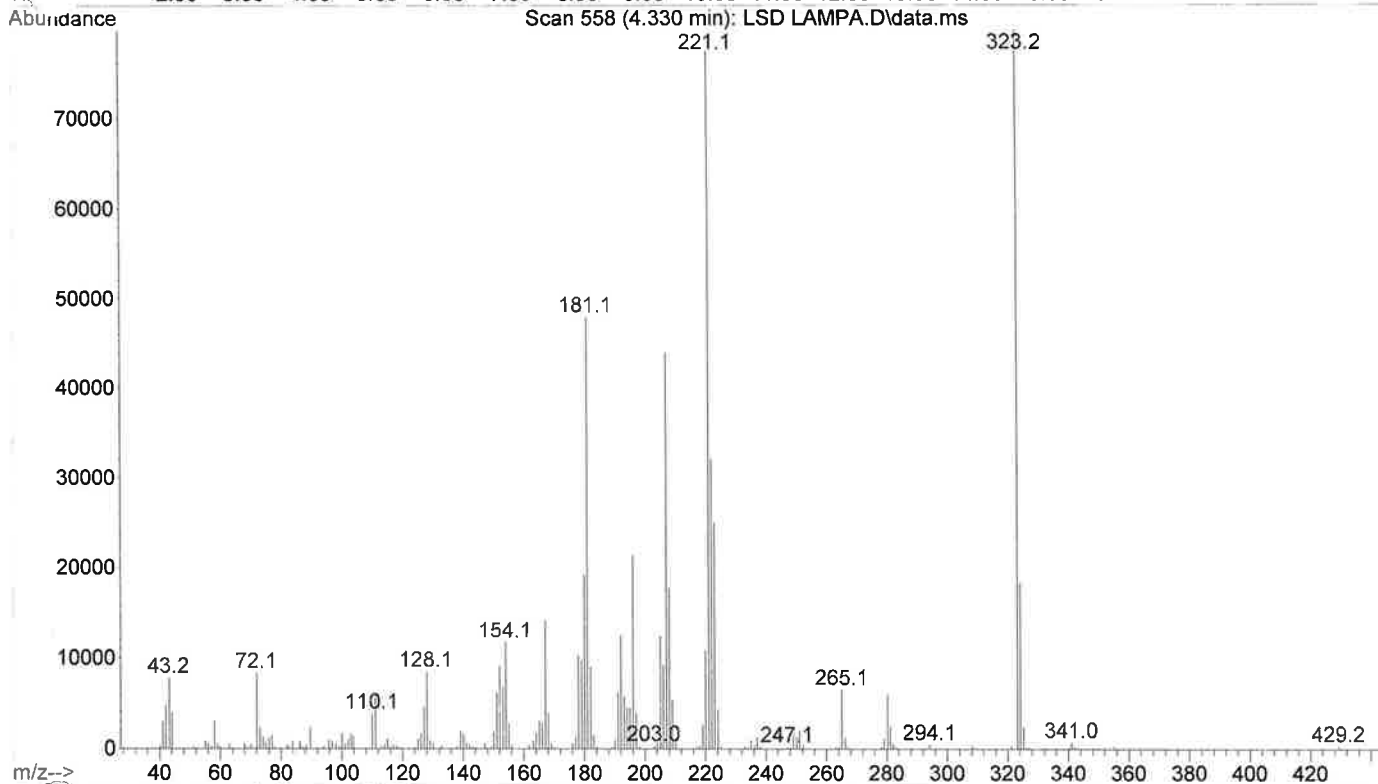
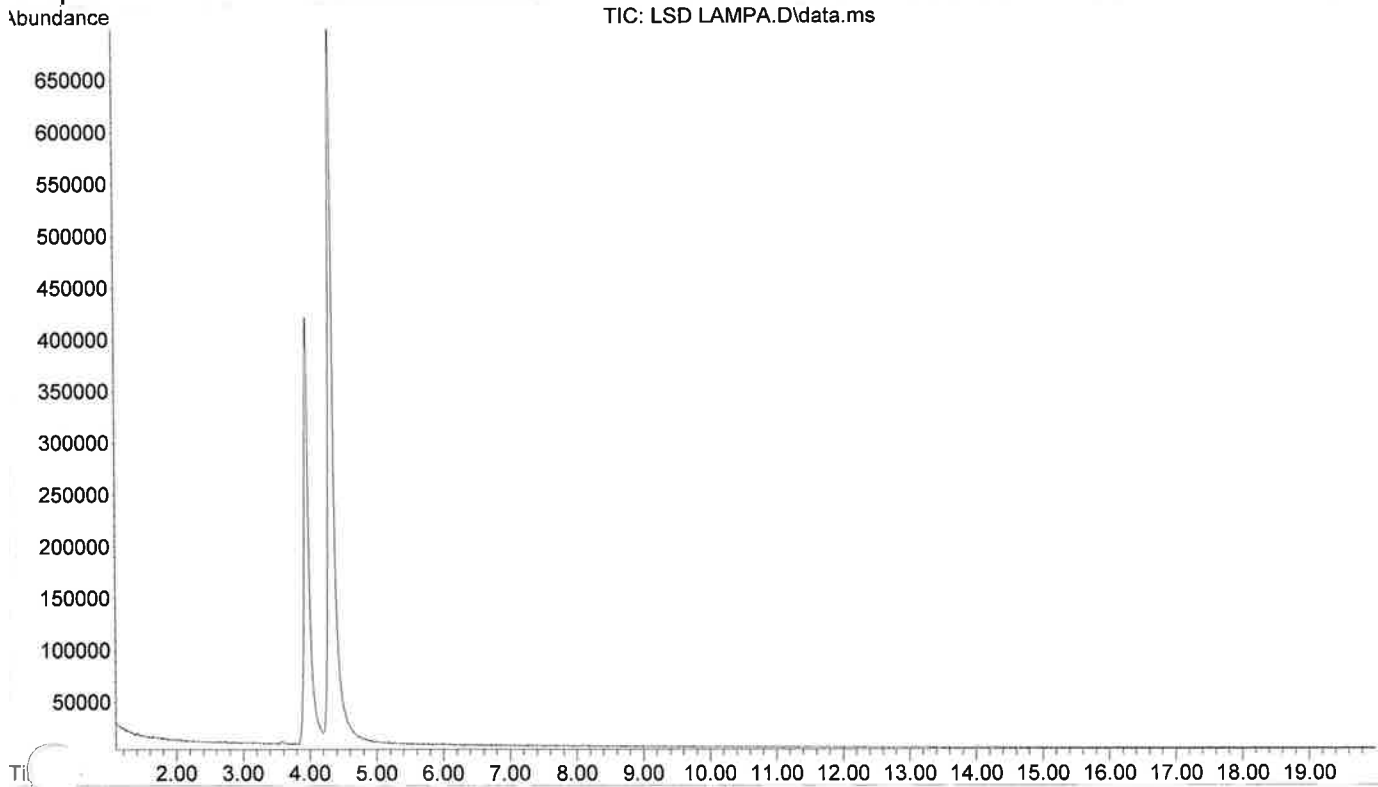
Time



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\LSD LAMPA.D
Run on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 27 Jun 2017 9:58
Method: C:\MSDCHEM\1\METHODS\MS280\ISO.M
Sample: Misc. Information:

One

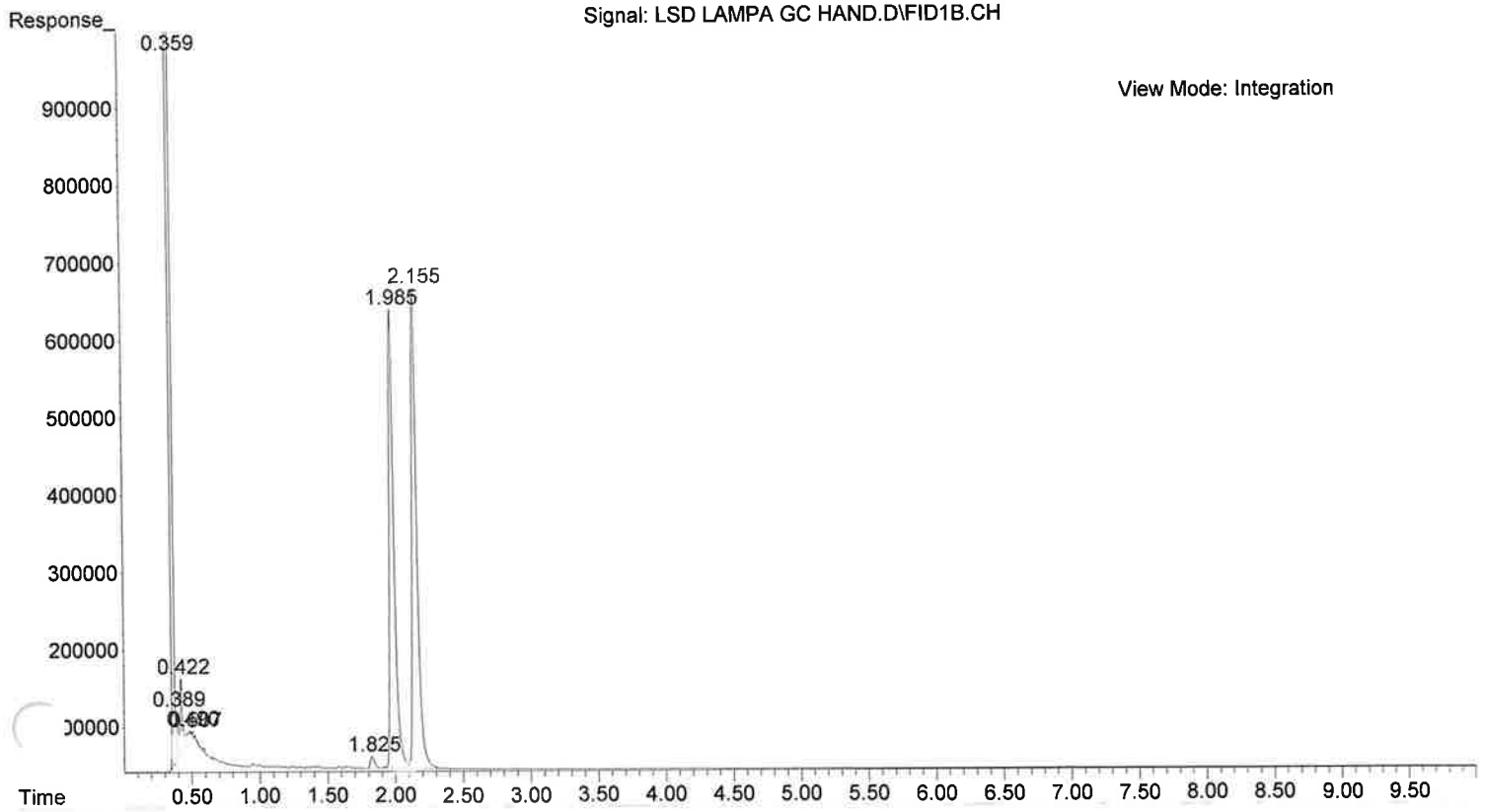


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 280 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\LSD LAMPA GC HAND.D
Operator :
Acquired : 27-Jun-17, 13:56:17 using AcqMethod GC280ISO.M
Instrument : Graceland
Sample Name:
Info :
Vial Number: 1

12

6me



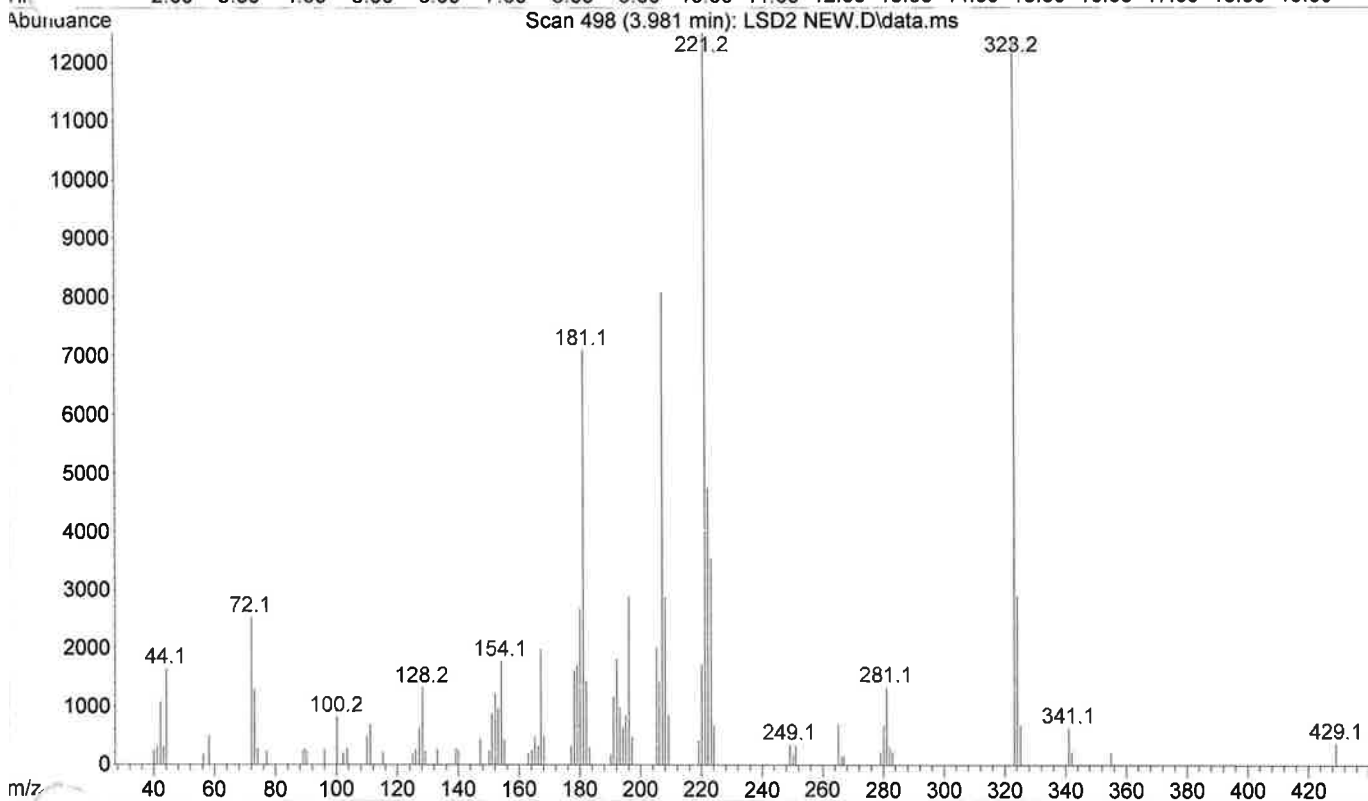
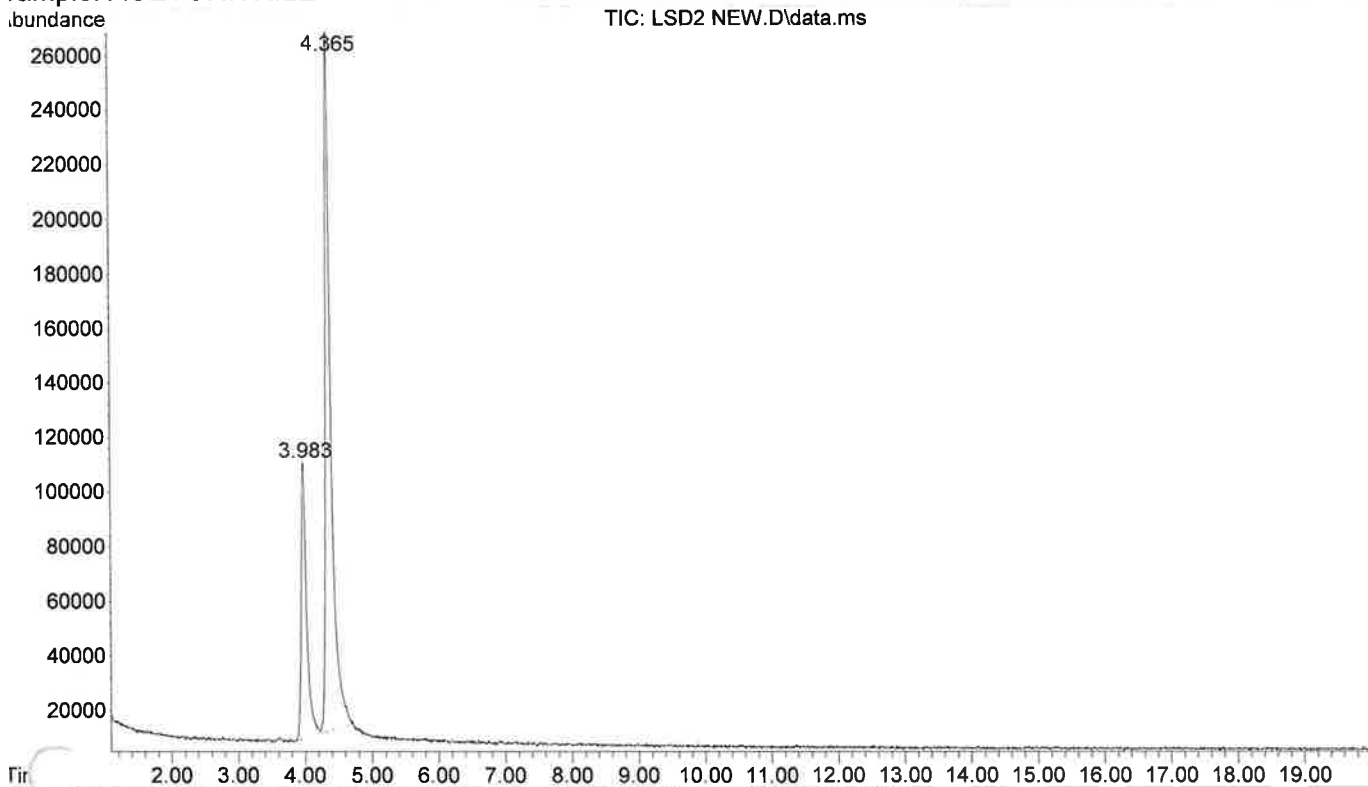
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD2 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 19:34
Method: C:\MSDCHEM\1\METHODS\ASMS280ISO.M

gmc

Sample: ACETONITRILE

Misc. Information: LSD AND LAMPA STANDARD

TIC: LSD2 NEW.D\data.ms

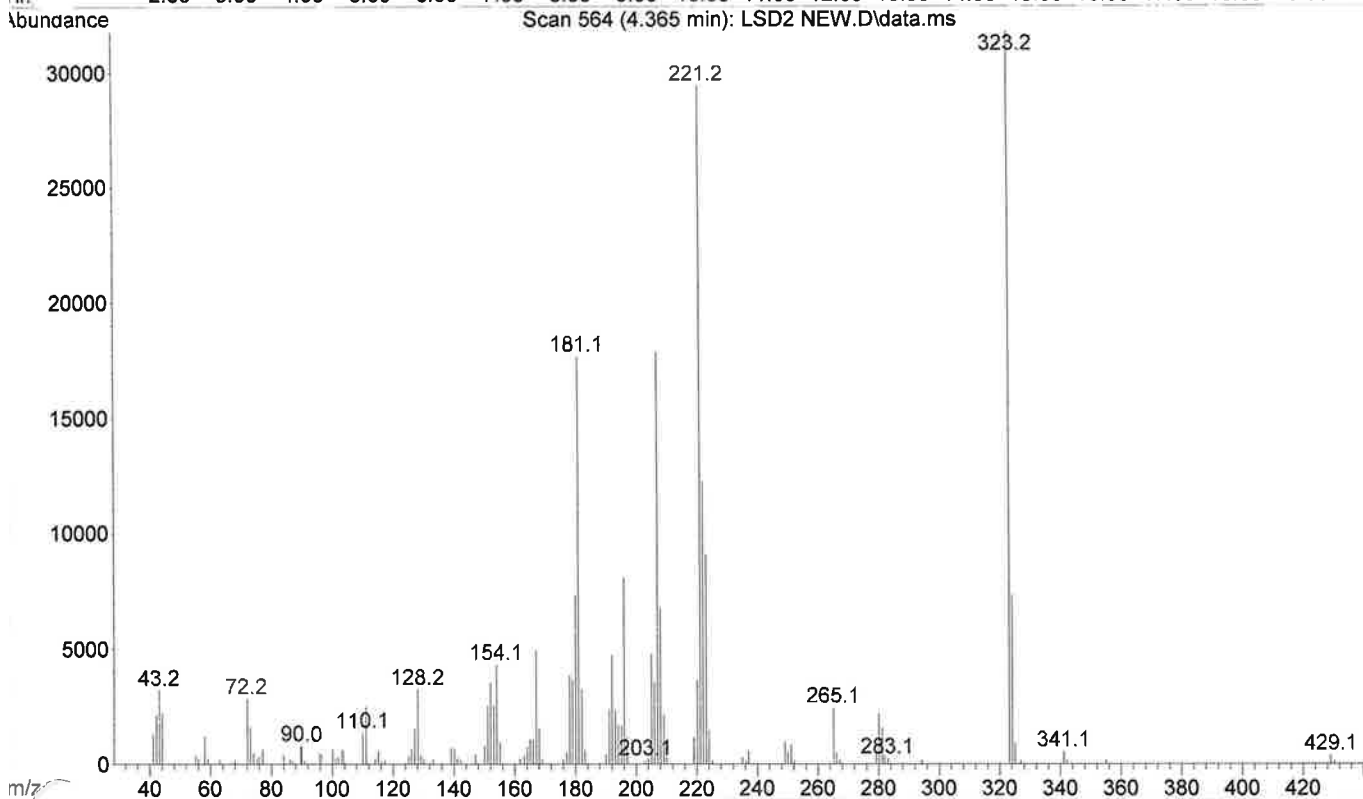
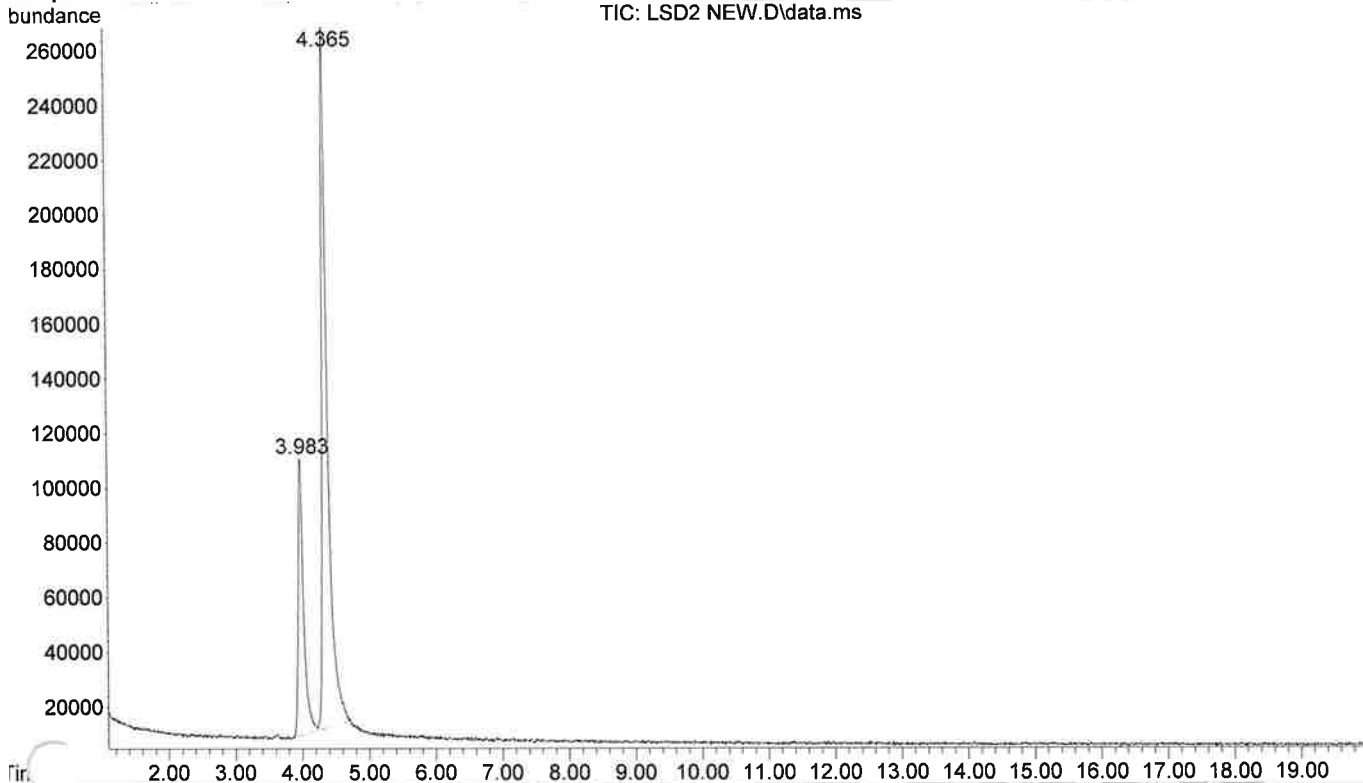


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 280 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD2 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 19:34
File: C:\MSDCHEM\1\METHODS\ASMS280\ISO.M

BMC

Sample: ACETONITRILE Misc. Information: LSD AND LAMPA STANDARD
TIC: LSD2 NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD1 NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 18:50
File: C:\MSDCHEM\1\METHODS\ASMS280ISO.M

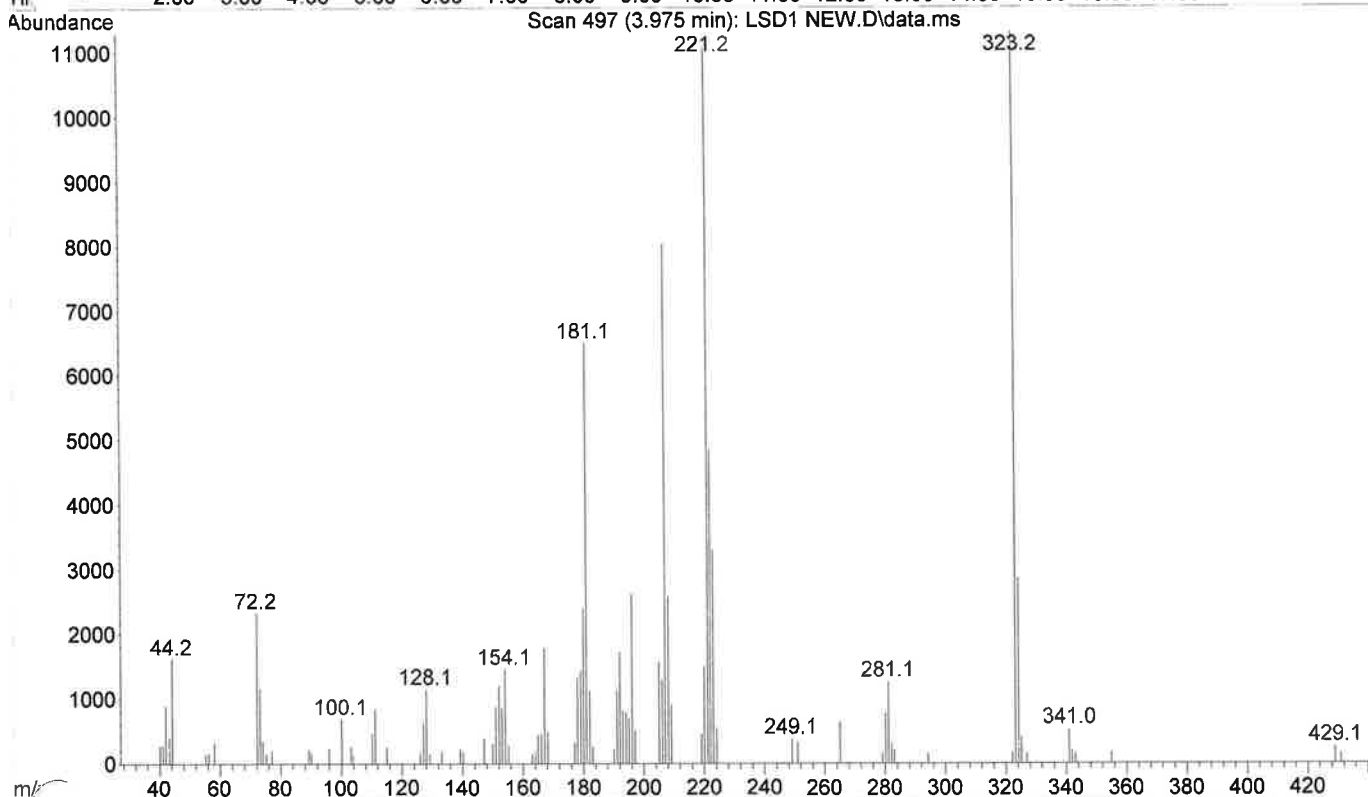
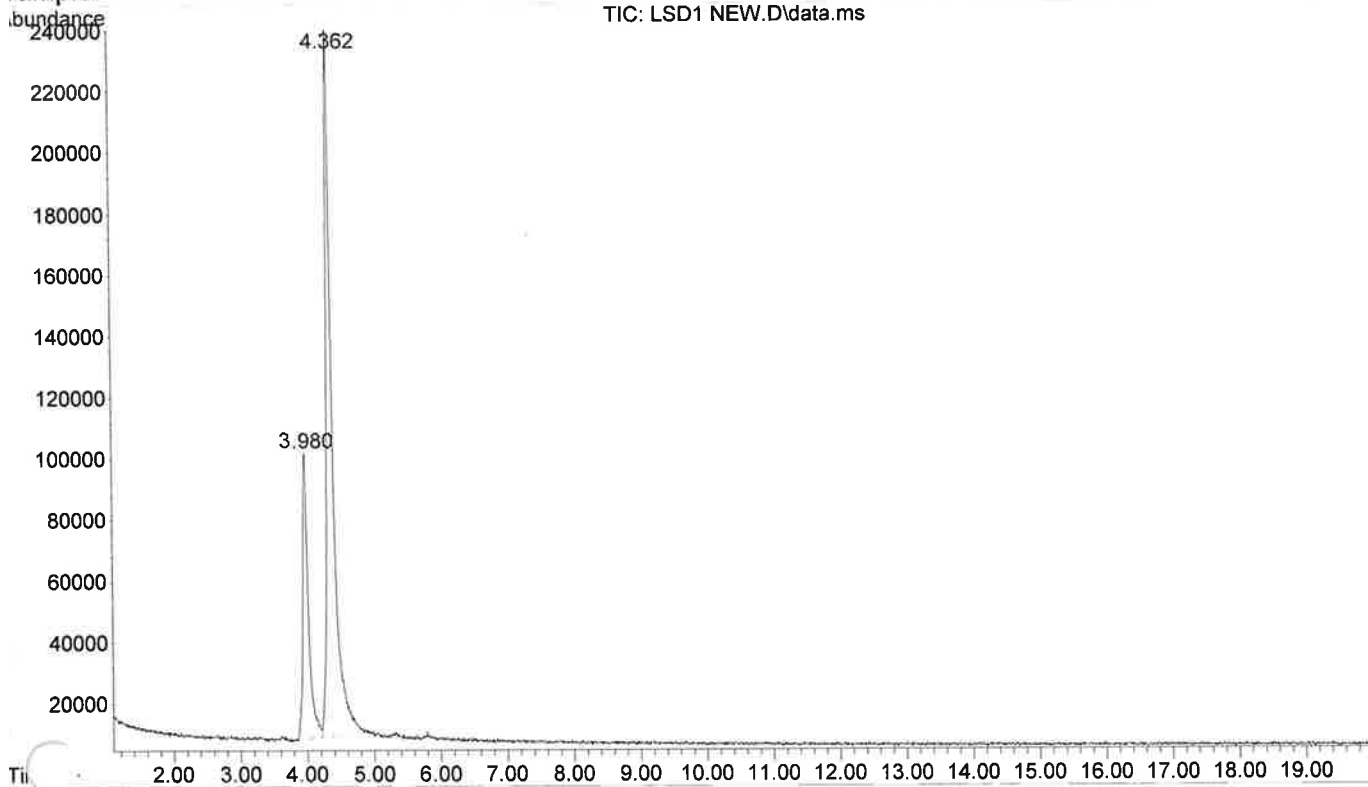
SD

Time

Sample: ACETONITRILE

Misc. Information: LSD AND LAMPA STANDARD

TIC: LSD1 NEW.D\data.ms



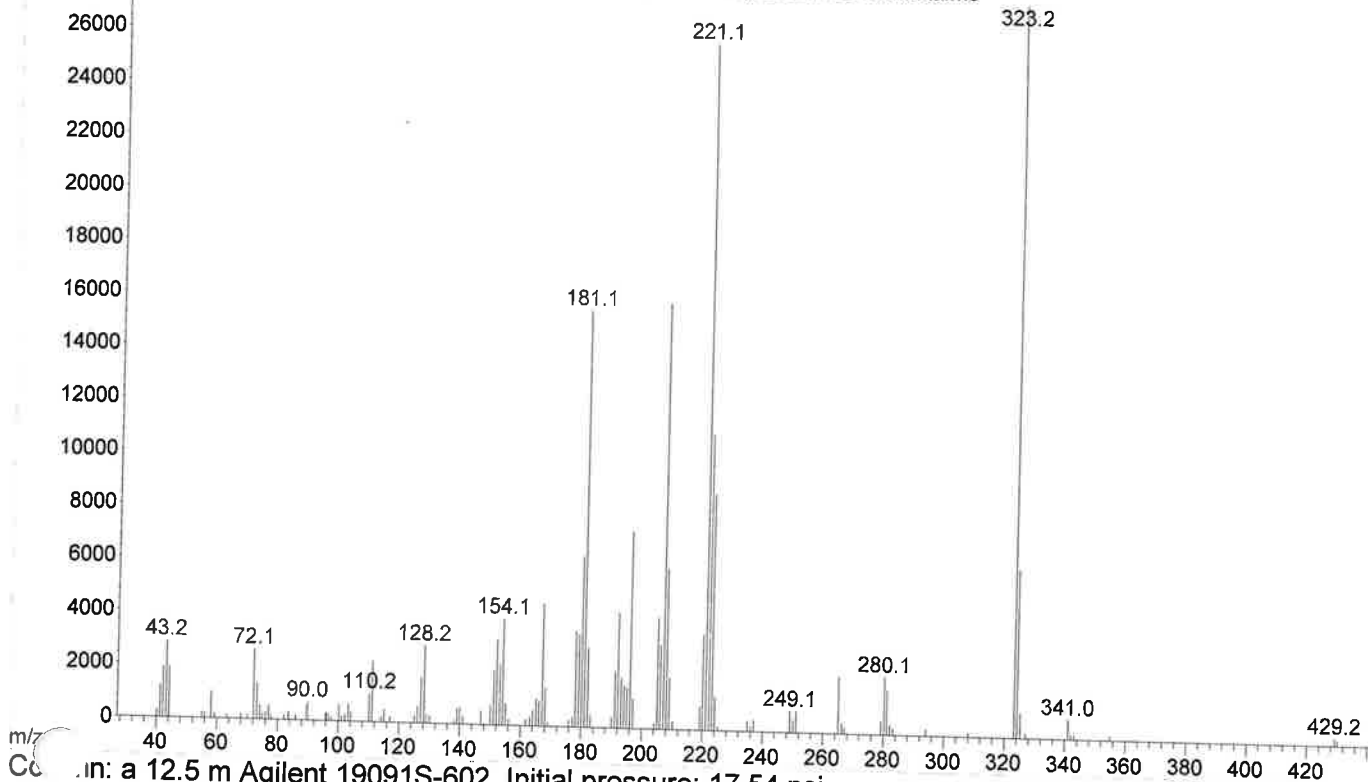
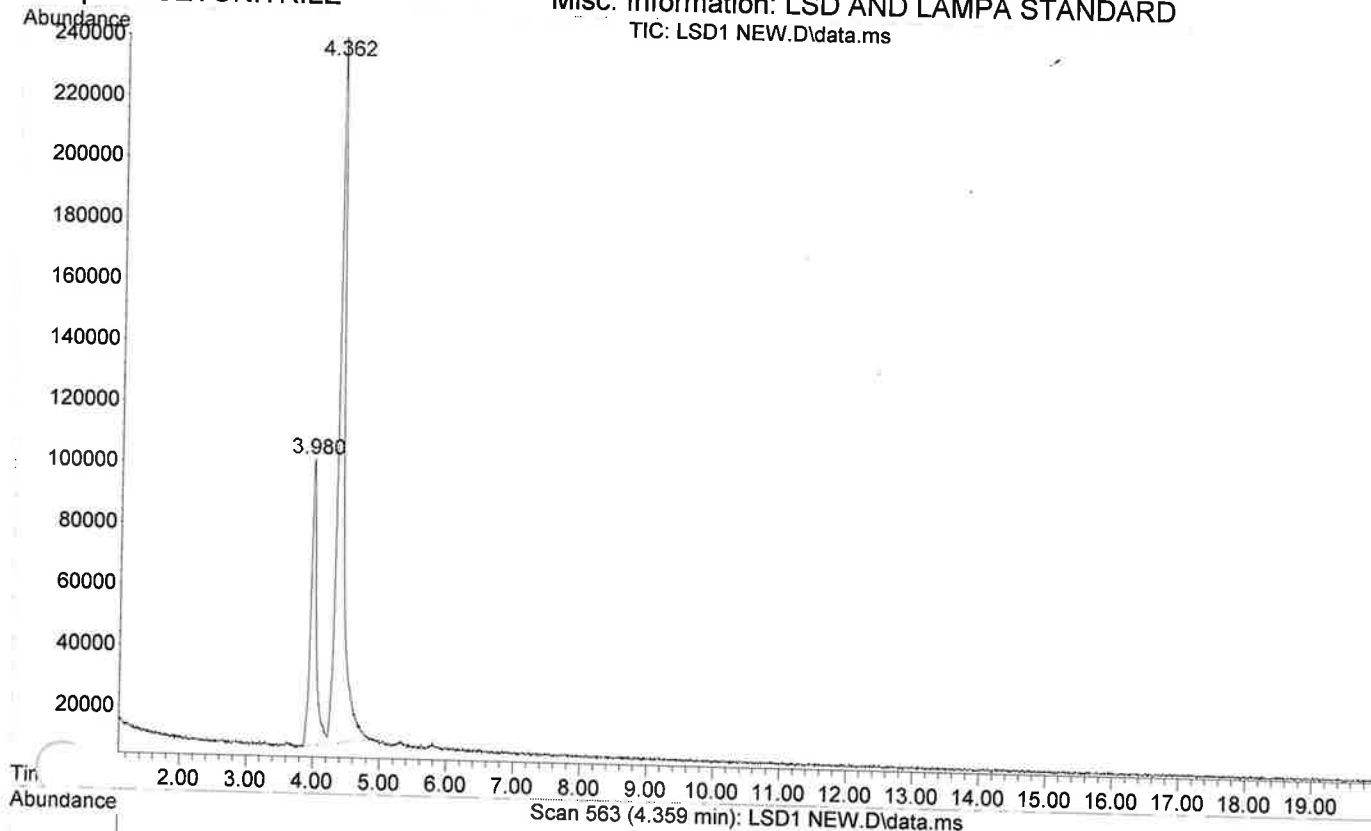
Scan: 497 (3.975 min): LSD1 NEW.D\data.ms

Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 280 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD1 NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 18:50
Method: C:\MSDCHEM\1\METHODS\ASMS280ISO.M
Sample: ACETONITRILE

Misc. Information: LSD AND LAMPA STANDARD
TIC: LSD1 NEW.D\data.ms

Emc

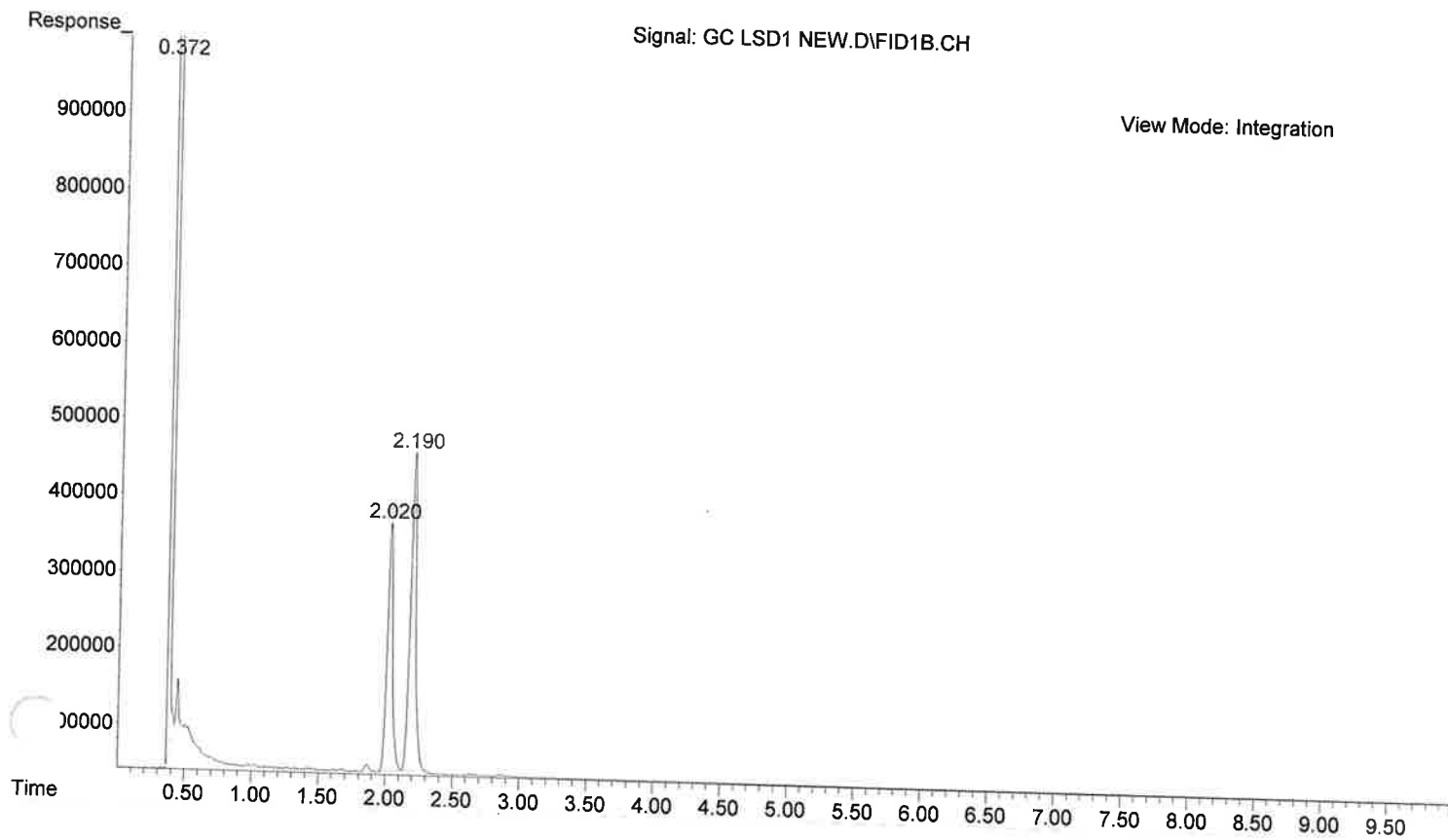


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC LSD1 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 20:08:33 using AcqMethod ASGC280ISO.M
Instrument : Graceland
Sample Name: ACETONITRILE
Misc Info : LSD AND LAMPA STANDARD
Vial Number: 0

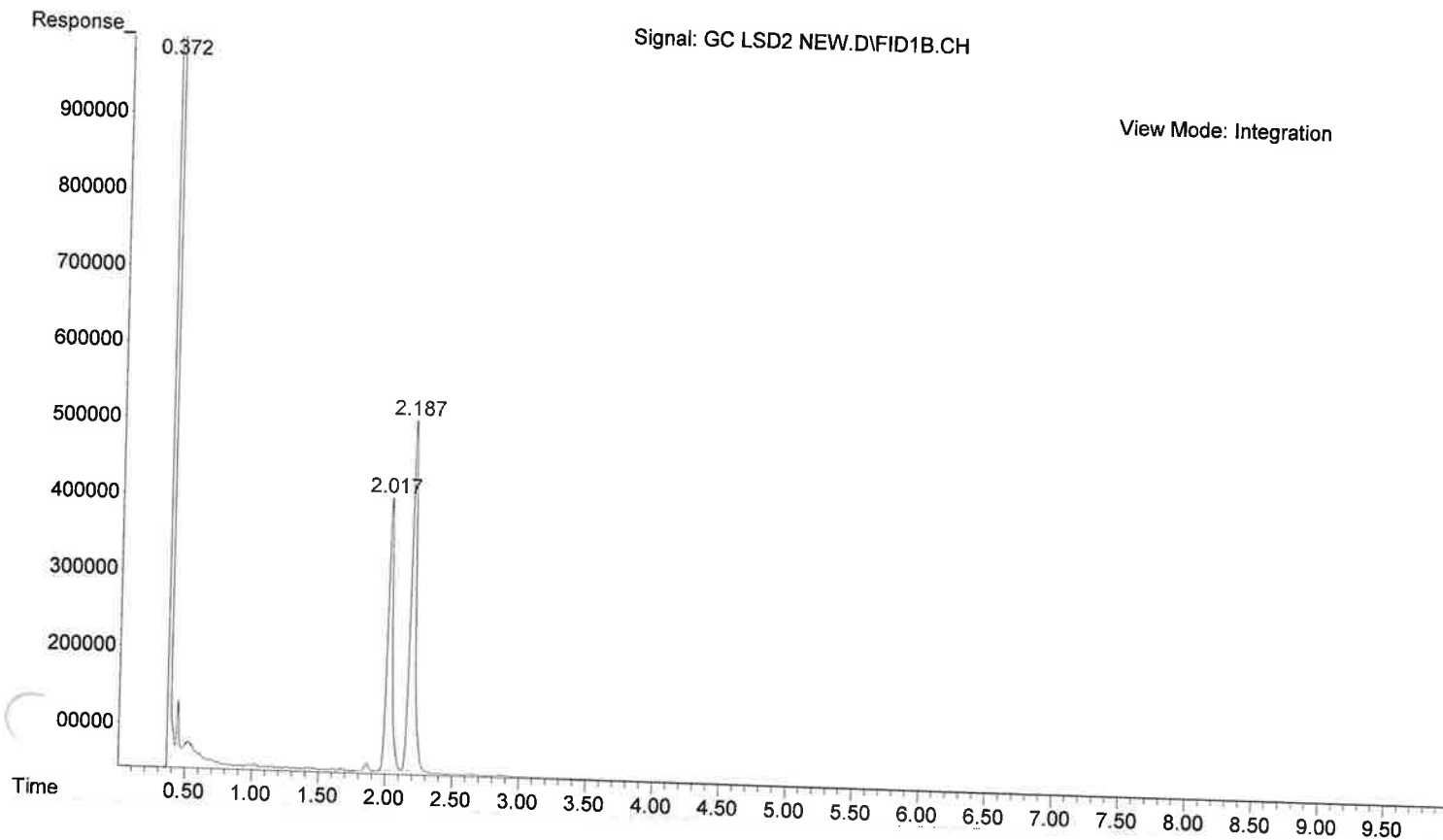
LSD

OMC



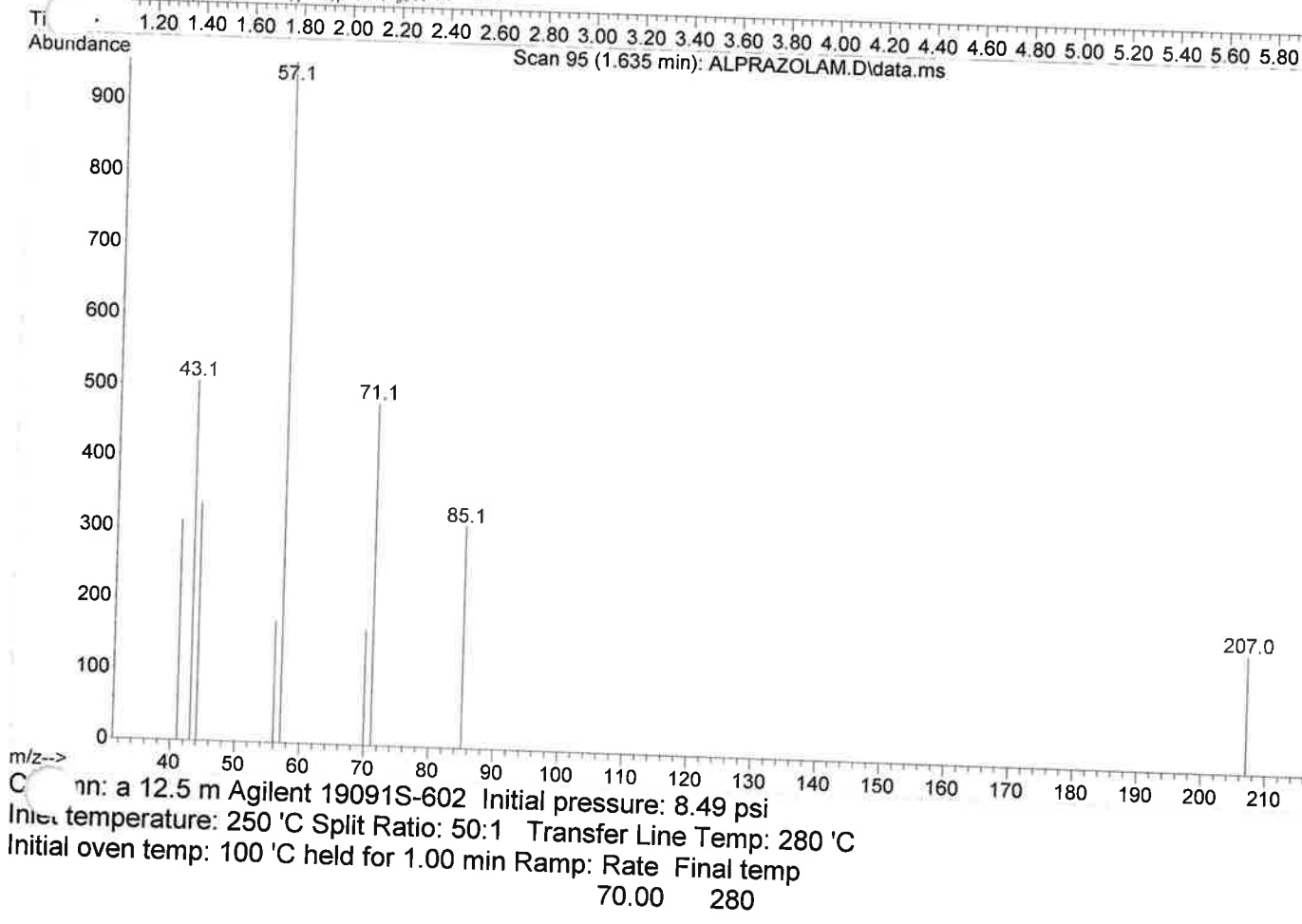
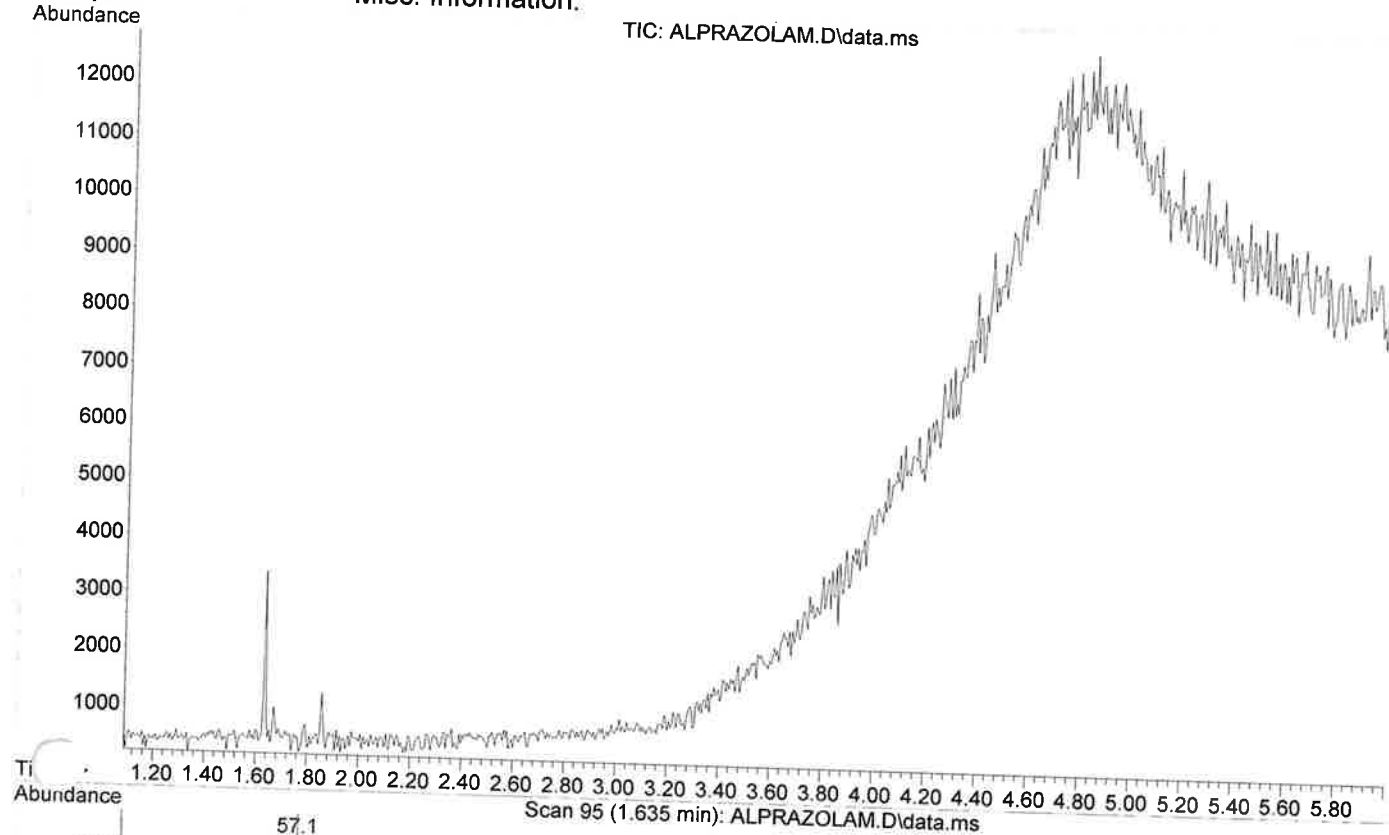
File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC LSD2 NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 20:32:40 using AcqMethod ASGC280ISO.M
Instrument : Graceland
Sample Name: ACETONITRILE
Mi fo : LSD AND LAMPA STANDARD
Vial Number: 0

Bmc



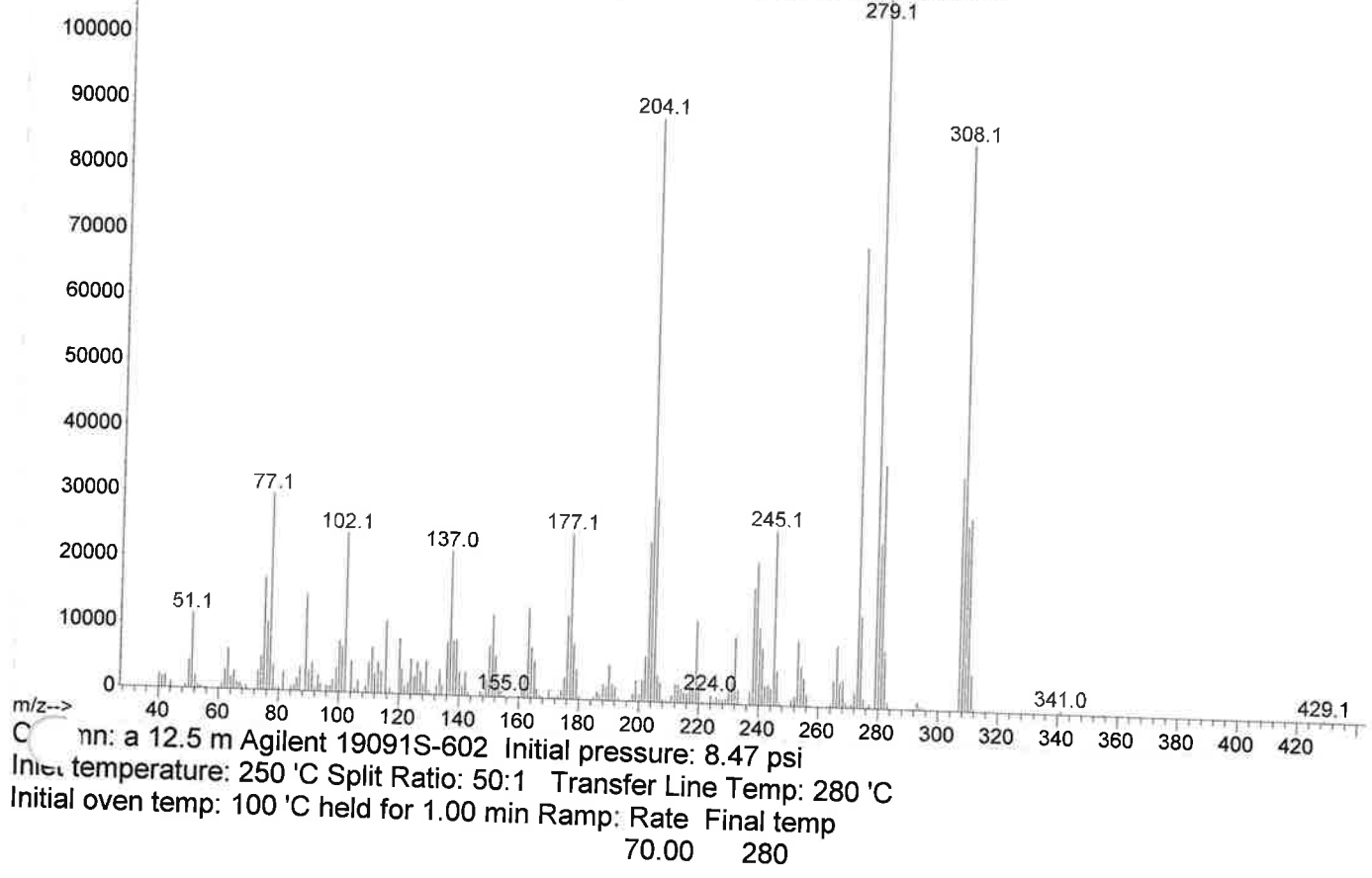
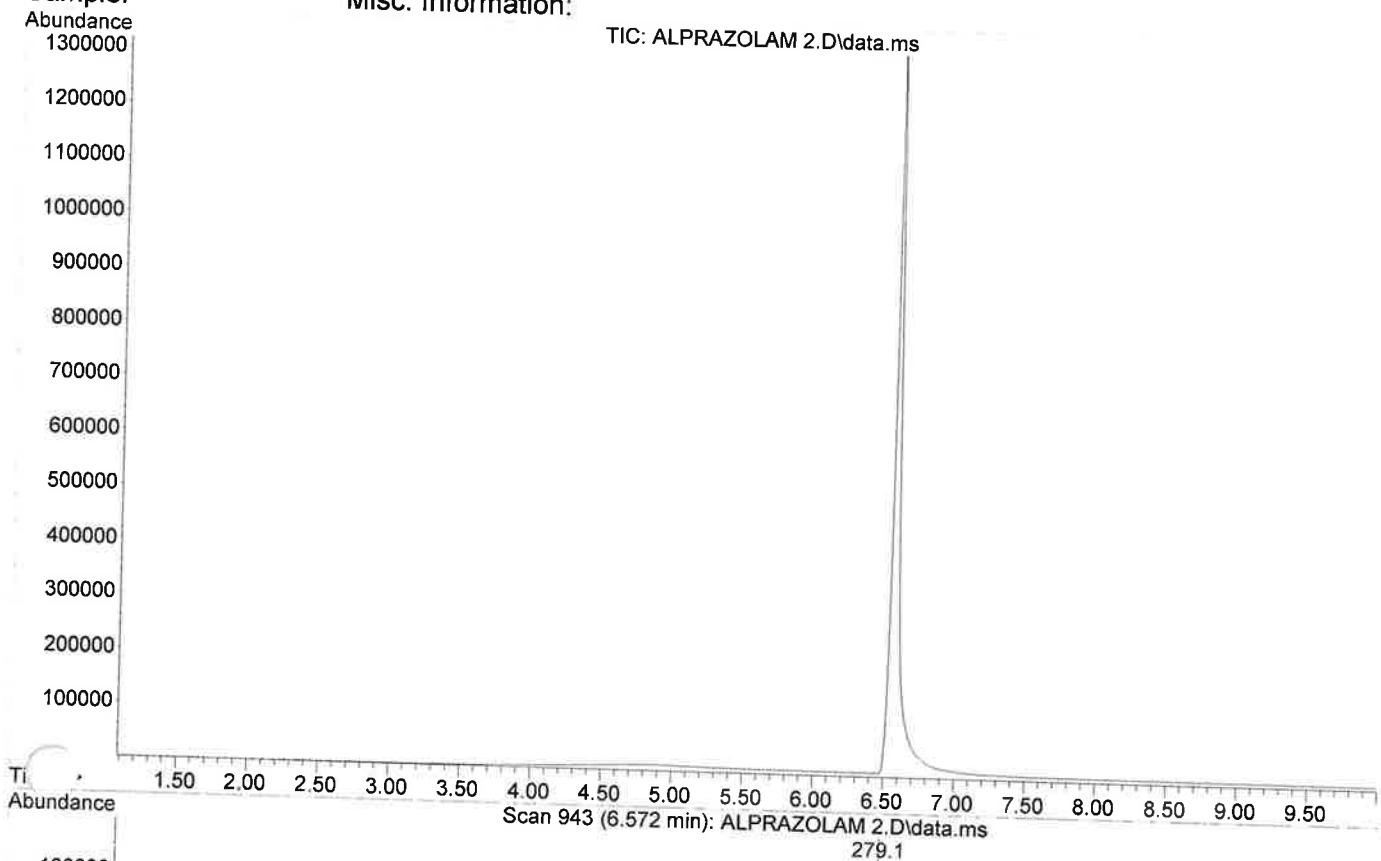
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\ALPRAZOLAM.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 13:06
Method: C:\MSDCHEM\1\METHODS\MS100TR.M
Sample: Misc. Information:

Eme



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\ALPRAZOLAM 2.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 13:52
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M
Sample: Misc. Information:

Bme



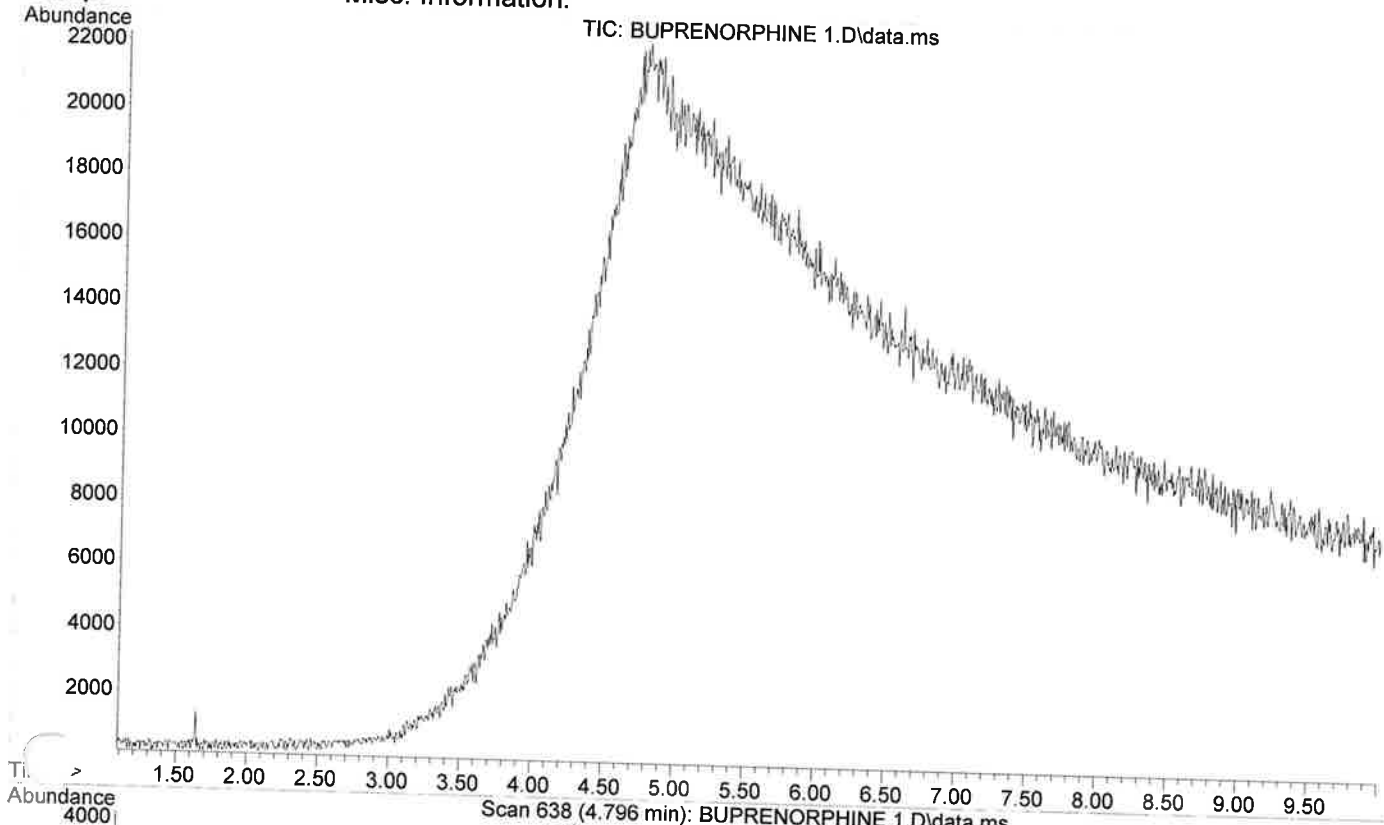
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 1.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 12:57

Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

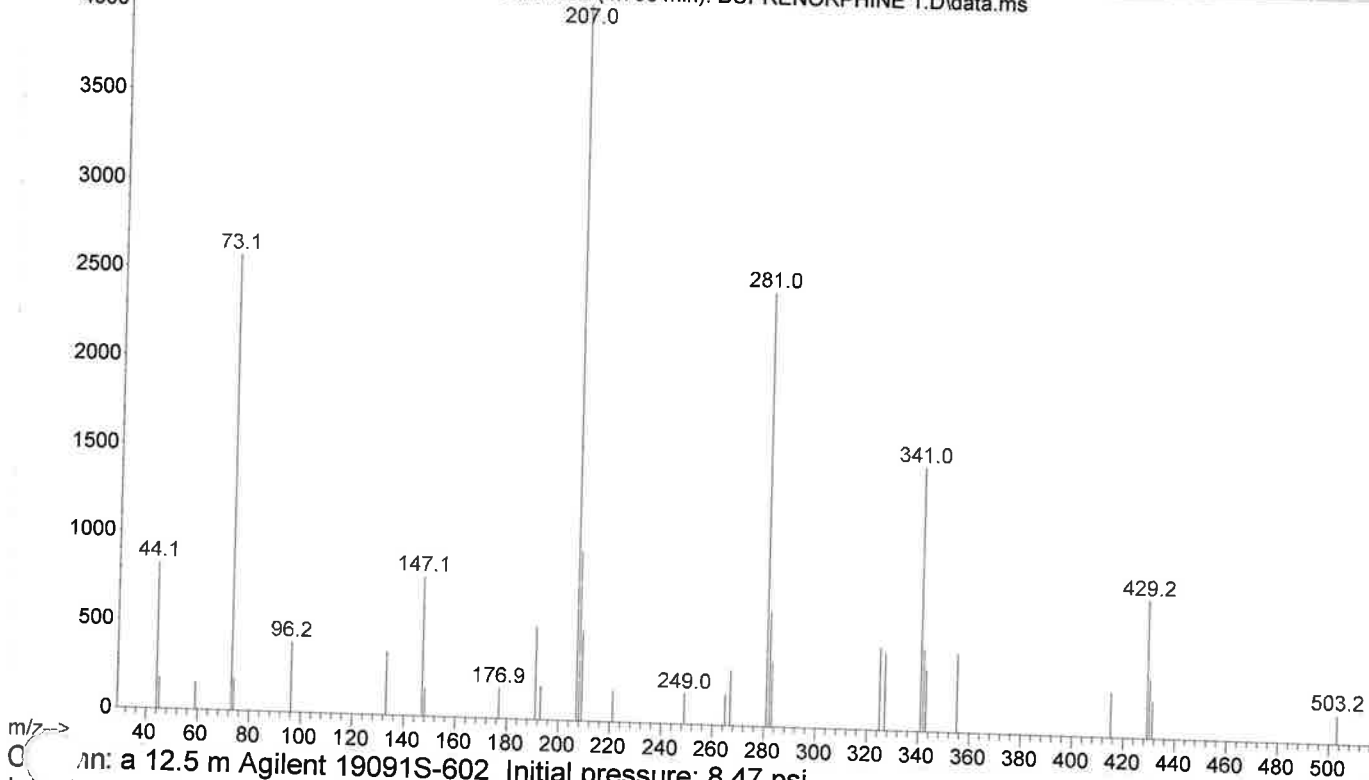
Sample:

Misc. Information:

TIC: BUPRENORPHINE 1.D\data.ms



Scan 638 (4.796 min): BUPRENORPHINE 1.D\data.ms



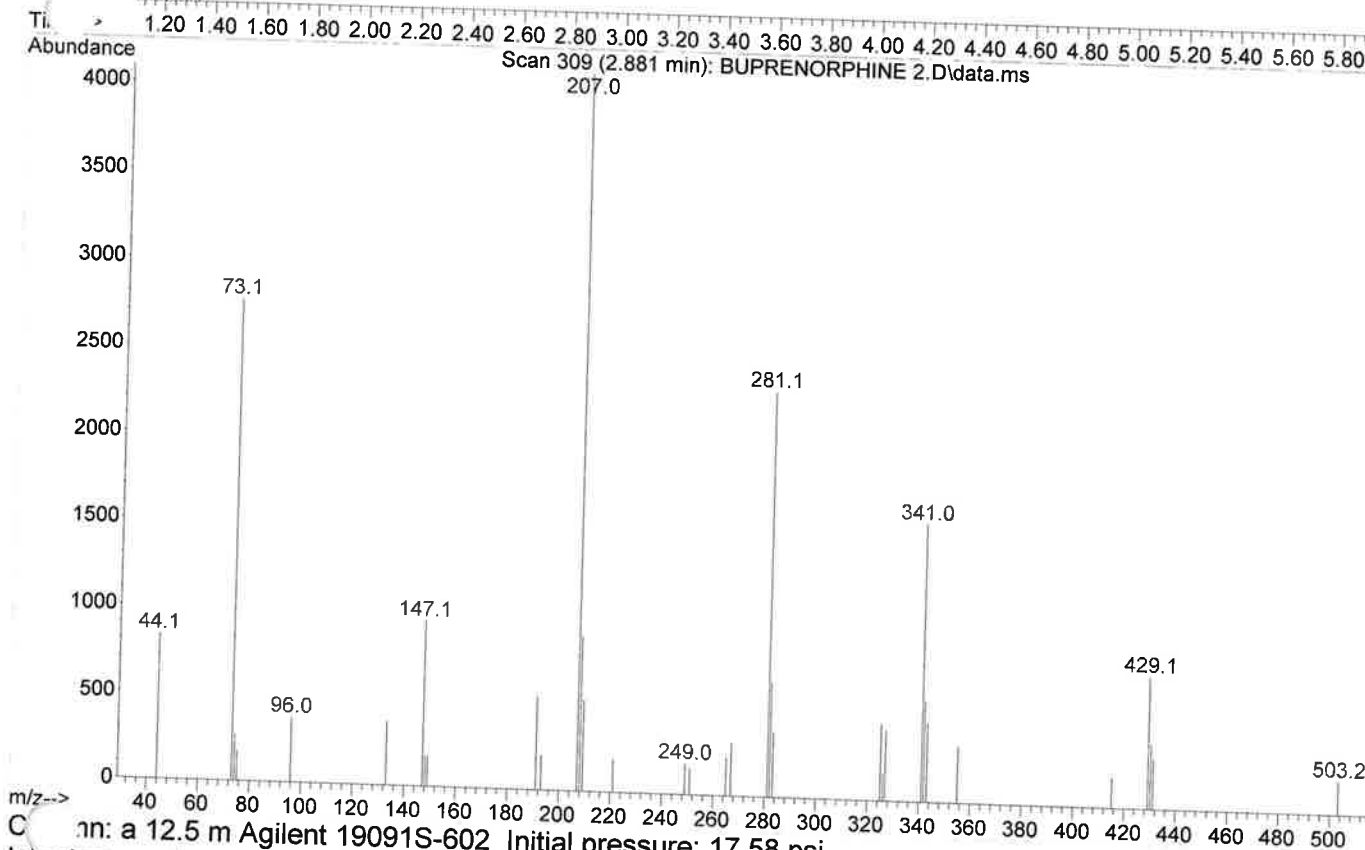
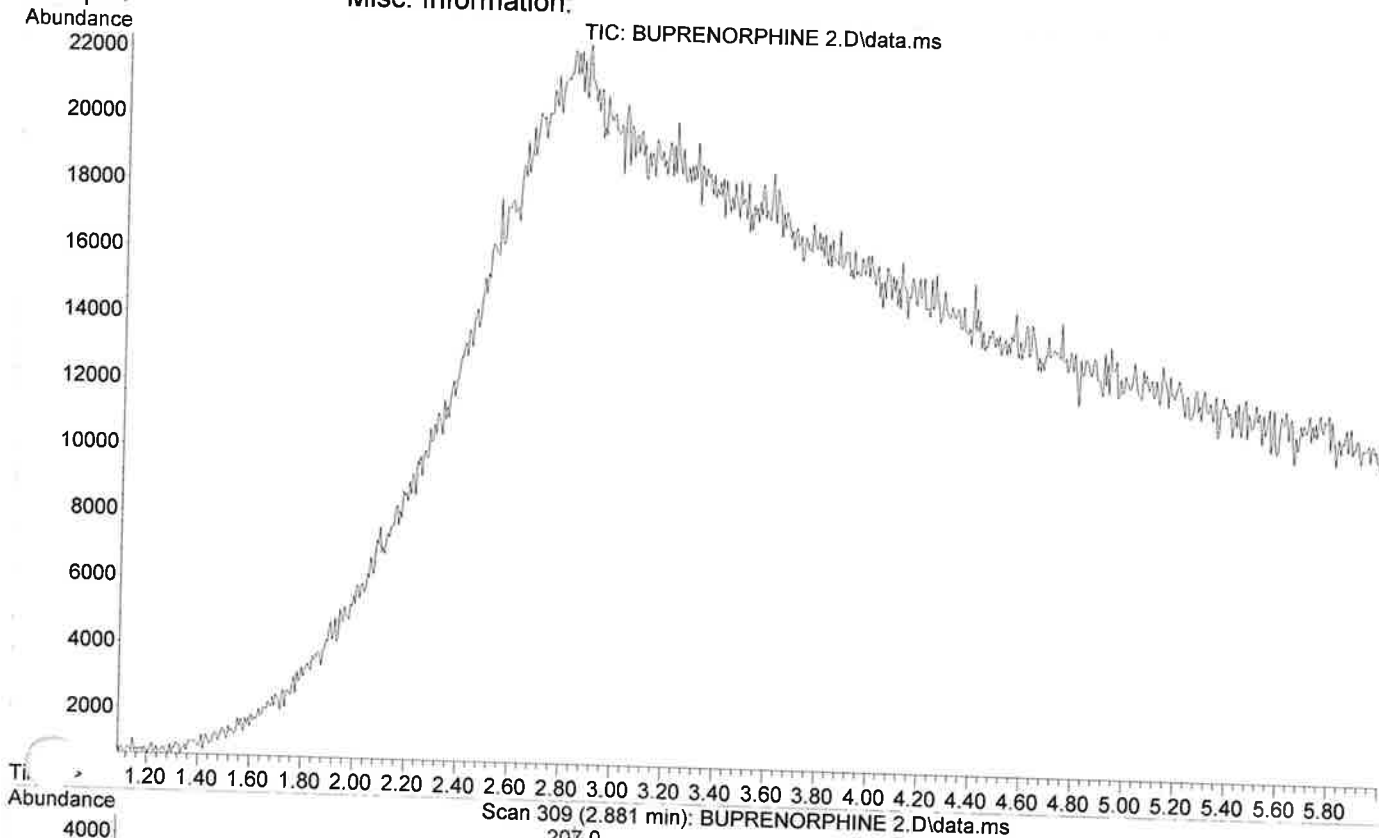
Method: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 2.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 13:40

Eme

Method: C:\MSDCHEM\1\METHODS\MS200TR.M

Sample: Misc. Information:



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.58 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

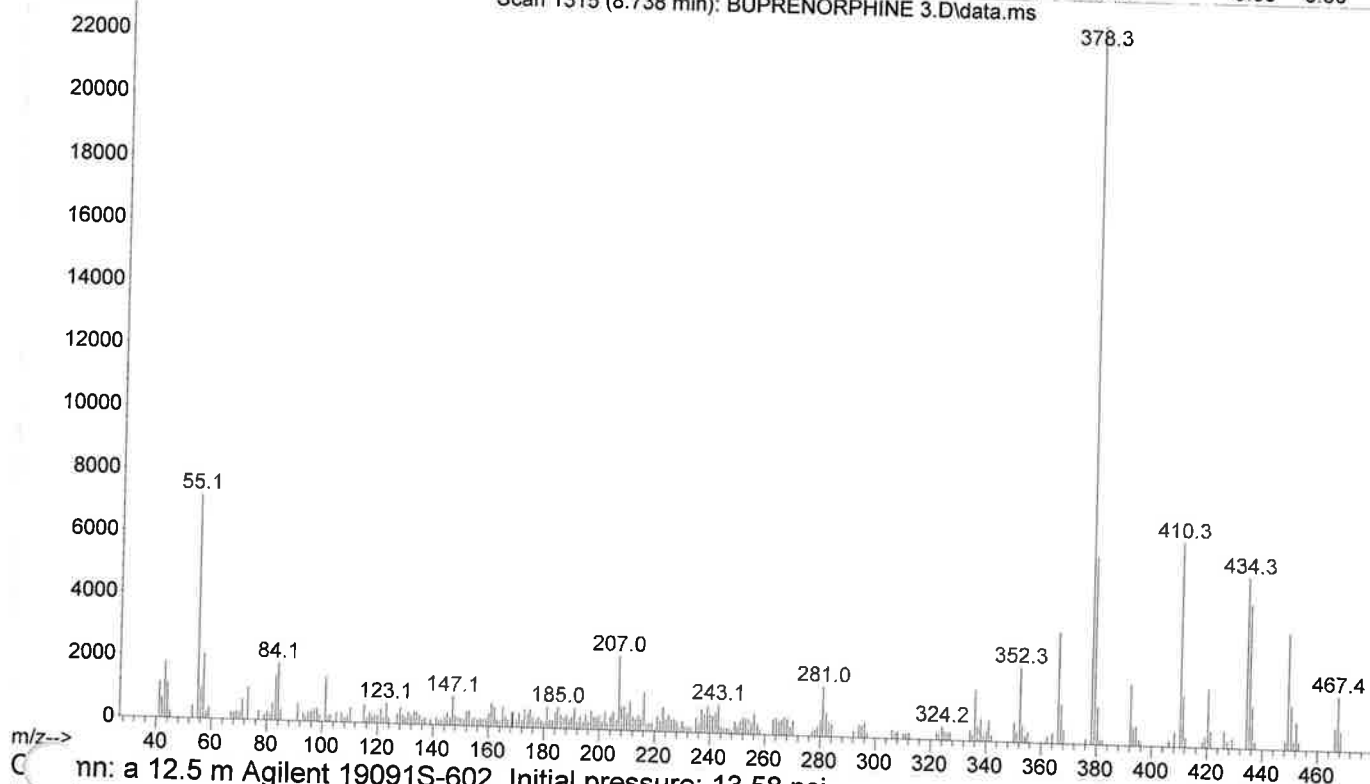
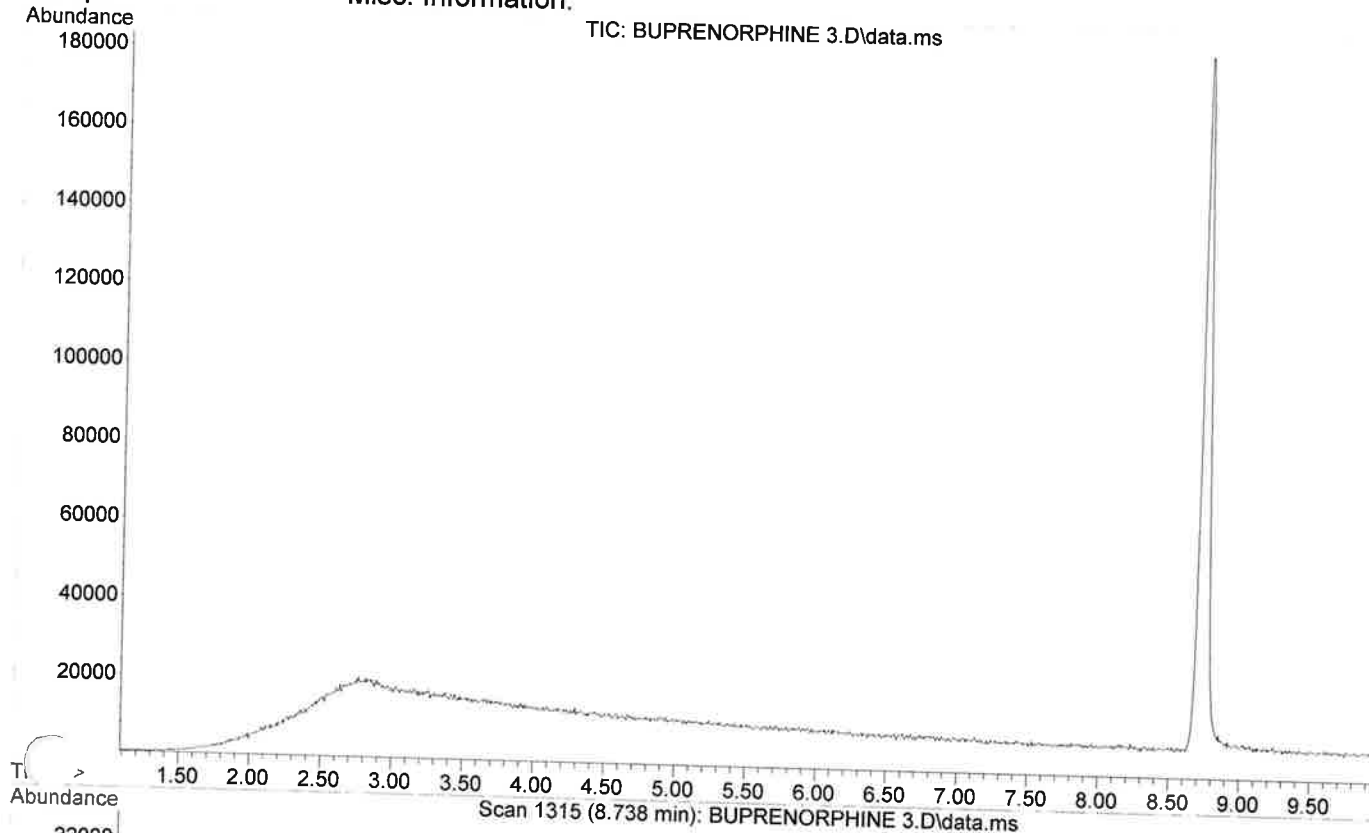
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 3.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 14:16
Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M

One

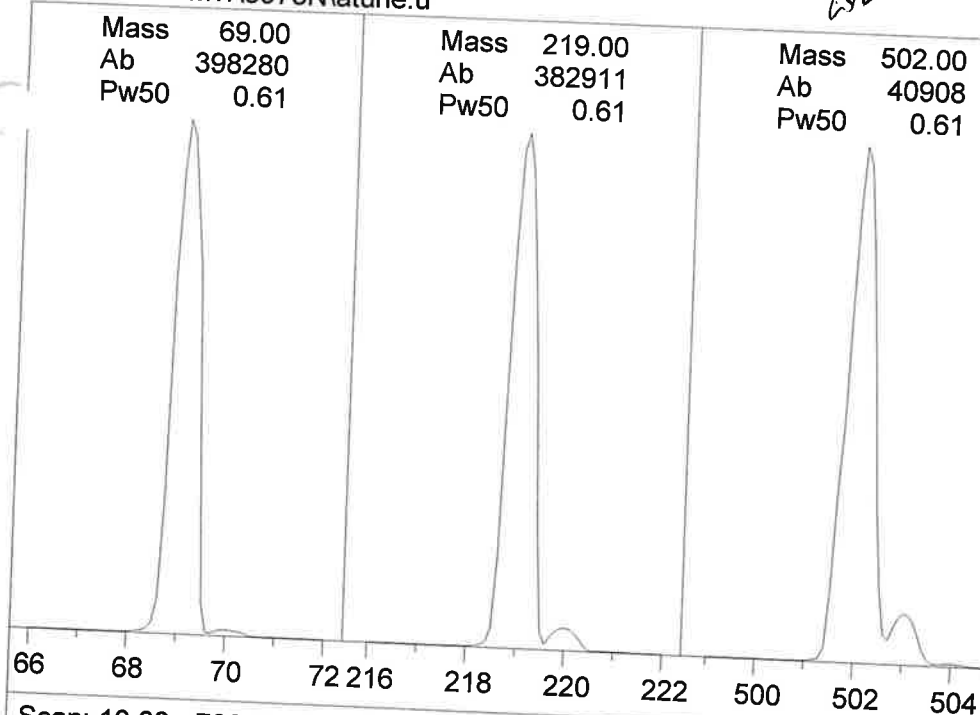
Sample:

Misc. Information:

TIC: BUPRENORPHINE 3.D\data.ms

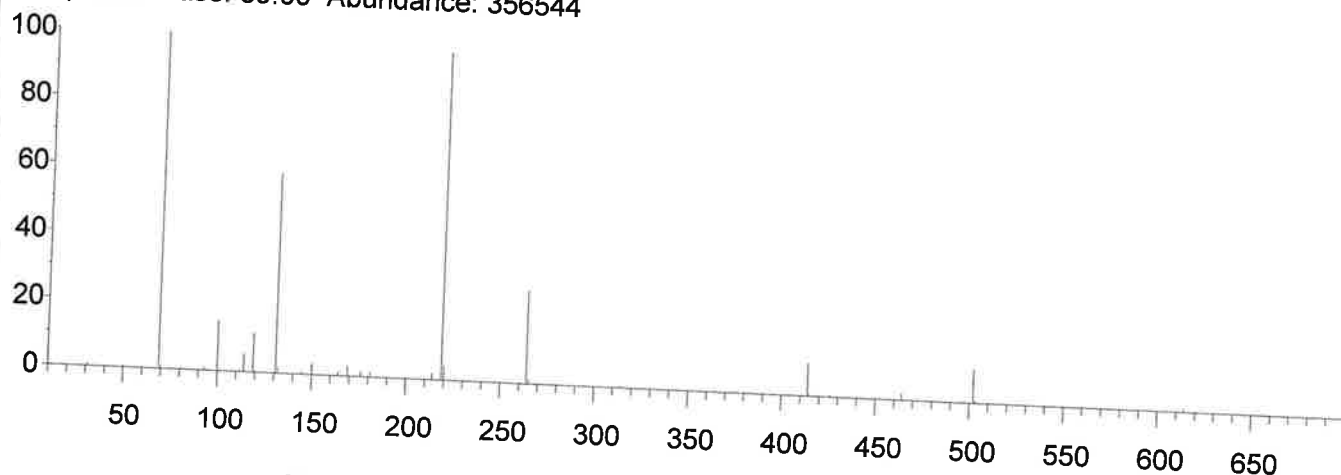


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280



Ion Pol Pos MassGain -58
MassOffs -8
Emission 34.6 AmuGain 2077
EIEnrgy 69.9 AmuOffs 130
Filament 1 Wid219 -0.023
DC Pol Pos
Repeller 28.28
IonFcus 86.4 HEDEnab On
EntLens 14.5 EMVolts 1529
EntOffs 19.07
PFTBA Open Samples 8
Averages 3
Stepsize 0.10
Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
105 peaks Base: 69.00 Abundance: 356544



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	356544	100.00	70.00	3908	1.10
219.00	346112	97.07	220.00	15646	4.52
502.00	36016	10.10	503.00	3643	10.11

Air/Water Check: H2O~0.35% N2~0.30% O2~0.15% CO2~0.07% N2/H2O~83.89%

Column Flow: Front: 0.825 Back: 2.368 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 29776
Repeller Maximum 35 volts using ion 219; Gain Factor 0.30

MassGain Values(Samples): -58(3) -58(2) -59(1) -59(0) -58(FS)
TARGET MASS: 50 69 131 219 414 502 800

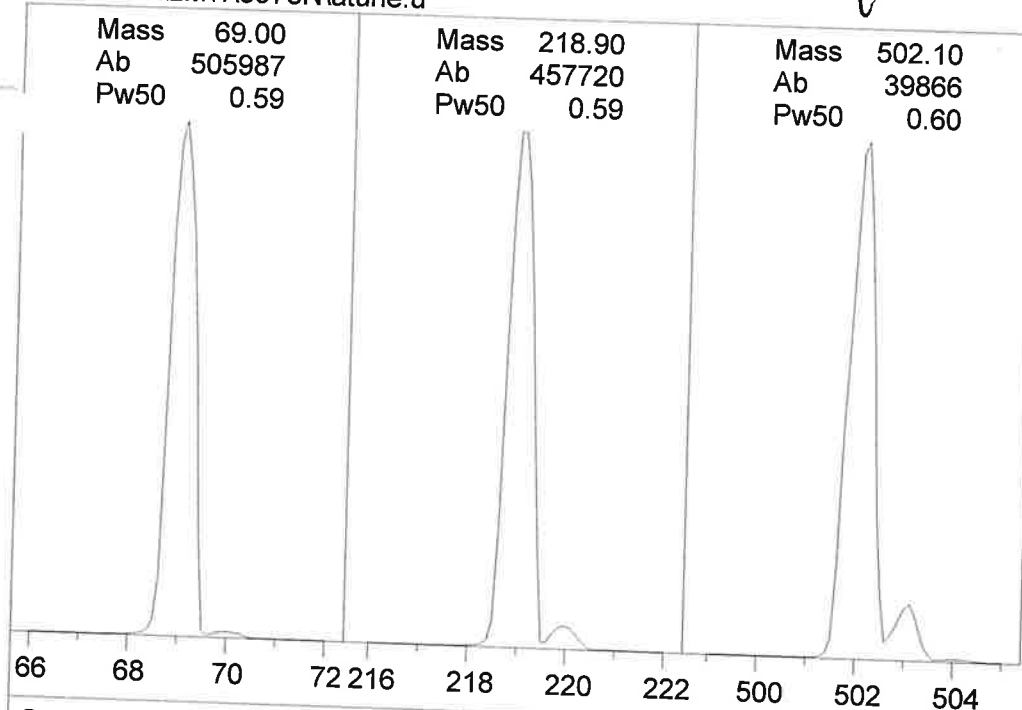
Amu Offset: 130.0 130.0 130.0 130.0 130.0 130.0 130.0
Entrance Lens Offset: 19.1 19.1 19.1 19.1 19.1 19.1 19.1

Wed Jun 21 10:07:22 2017

5973N Autotune

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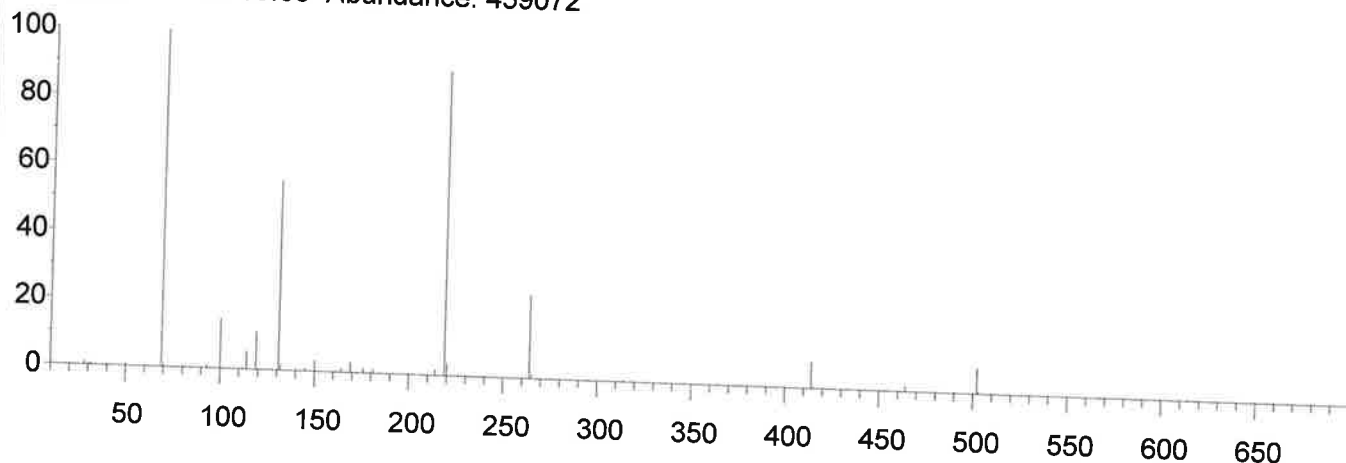
Instrument: Graceland
US03960484



Ion Pol	Pos	MassGain	-52
		MassOffs	-9
Emission	34.6	AmuGain	2098
EiErgy	69.9	AmuOffs	131
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	29.29		
IonFcus	90.2	HEDenab	On
EntLens	16.5	EMVolts	1529
EntOffs	20.08		
PFTBA	Open	Samples	8
		Averages	3
		Stepsize	0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
109 peaks Base: 69.00 Abundance: 459072



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	459072	100.00	70.00	5105	1.11
219.00	413120	89.99	220.00	18224	4.41
502.00	34576	7.53	503.00	3595	10.40

Air/Water Check: H2O~0.26% N2~1.10% O2~0.39% CO2~0.06% N2/H2O~413.74%

Column Flow: Front: 0.825 Back: 2.368 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 31567
Repeller Maximum 35 volts using ion 219; Gain Factor 0.32

MassGain Values(Samples): -55(3) -54(2) -53(1) -52(0) -52(FS)
TARGET MASS: 50 69 131 219 414 502 800

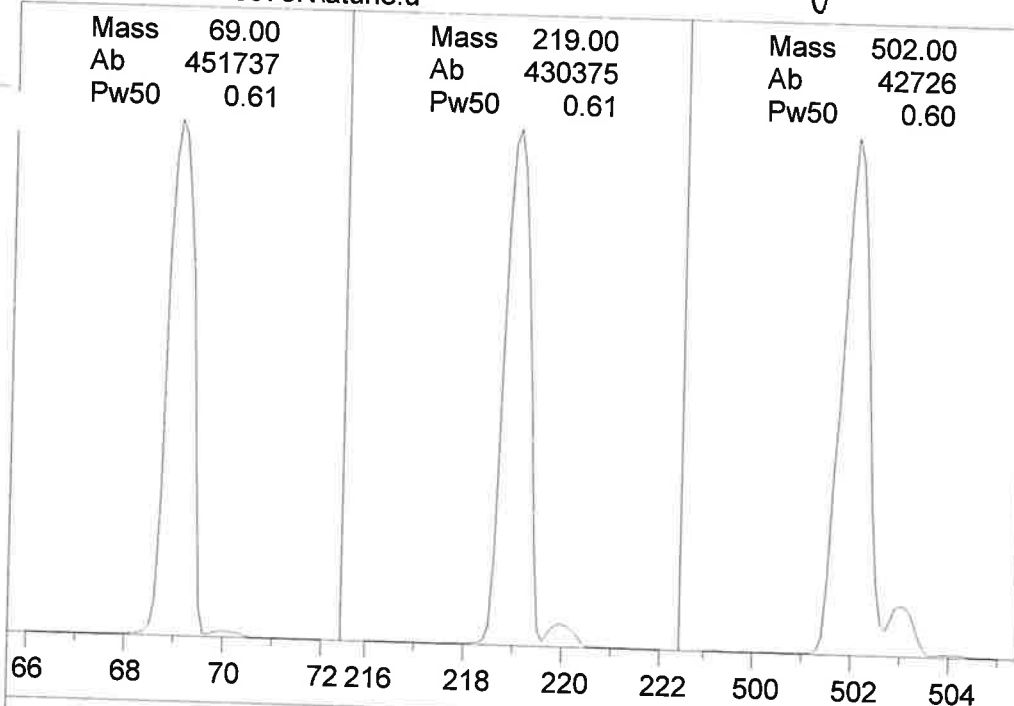
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Entrance Lens Offset: 20.1 20.1 20.1 20.1 20.1 20.1 20.1

Wed Jun 14 08:40:15 2017

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5973N Autotune

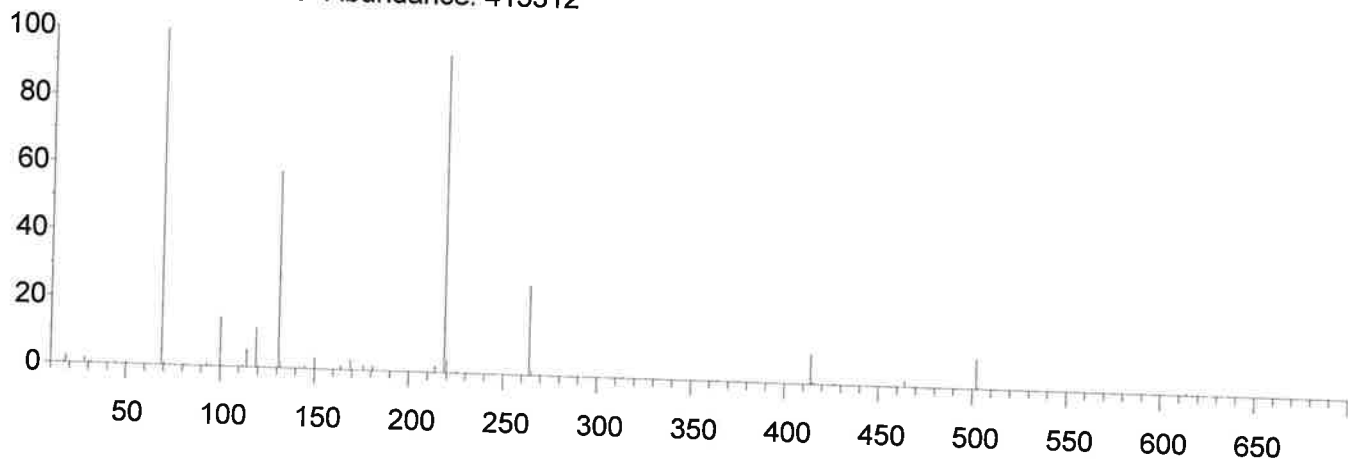
Instrument: Graceland
US03960484



Ion Pol	Pos	MassGain	-57
		MassOffs	-8
Emission	34.6	AmuGain	2076
EiEnrgy	69.9	AmuOffs	130
Filament	1	Wid219	-0.024
		DC Pol	Pos
Repeller	27.61		
IonFcus	85.4	HEDEnab	On
EntLens	16.5	EMVolts	1529
EntOffs	19.07		
PFTBA	Open	Samples	8
		Averages	3
		Stepsize	0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
115 peaks Base: 69.00 Abundance: 413312



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	413312	100.00	70.10	4474	1.08
219.00	389504	94.24	220.00	16984	4.36
502.00	37560	9.09	503.00	3727	9.92

Air/Water Check: H2O~2.42% N2~1.81% O2~0.54% CO2~0.48% N2/H2O~74.75%

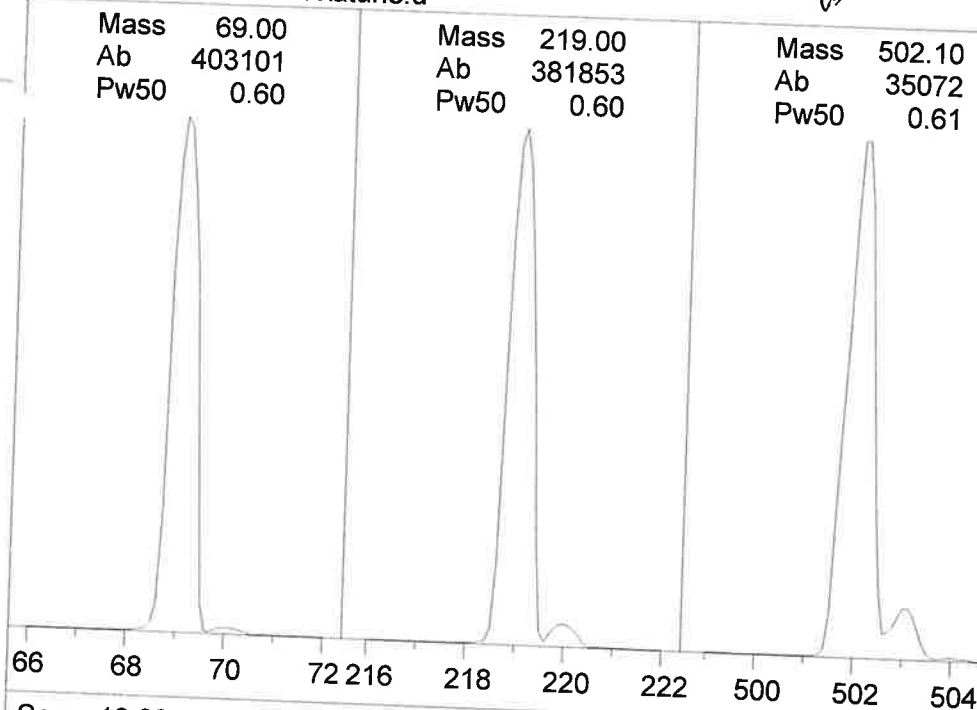
Column Flow: Front: 0.825 Back: 2.367 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 31512
Repeller Maximum 35 volts using ion 219; Gain Factor 0.32

MassGain Values(Samples): -57(3) -55(2) -55(1) -54(0) -57(FS)
TARGET MASS: 50 69 131 219 414 502 800

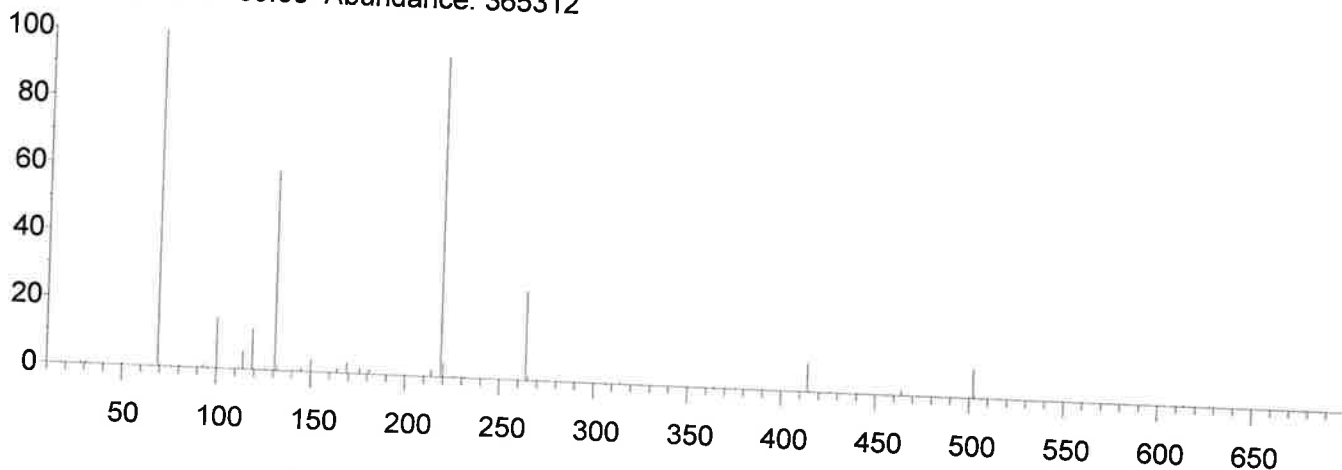
Amu Offset: 130.0 130.0 130.0 130.0 130.0 130.0 130.0
Entrance Lens Offset: 19.1 19.1 19.1 19.1 19.1 19.1 19.1



Ion Pol Pos MassGain -5
MassOffs -
Emission 34.6 AmuGain 208
ElEnergy 69.9 AmuOffs 13
Filament 1 Wid219 -0.01
DC Pol Po
Repeller 28.28
IonFcus 88.3 HEDenab 0
EntLens 14.5 EMVolts 148
EntOffs 20.08
PFTBA Open Samples 8
Averages 3
Stepsize 0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
103 peaks Base: 69.00 Abundance: 365312



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	365312	100.00	70.00	3940	1.08
219.00	346944	94.97	220.00	15067	4.34
502.10	31880	8.73	503.10	3336	10.46

Air/Water Check: H2O~0.25% N2~0.74% O2~0.21% CO2~0.04% N2/H2O~294.37%

Column Flow: Front: 0.825 Back: 2.367 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 28940
Repeller Maximum 35 volts using ion 219; Gain Factor 0.29

MassGain Values(Samples): -56(3) -58(2) -57(1) -58(0) -57(FS)
TARGET MASS: 50 69 131 219 414 502 800

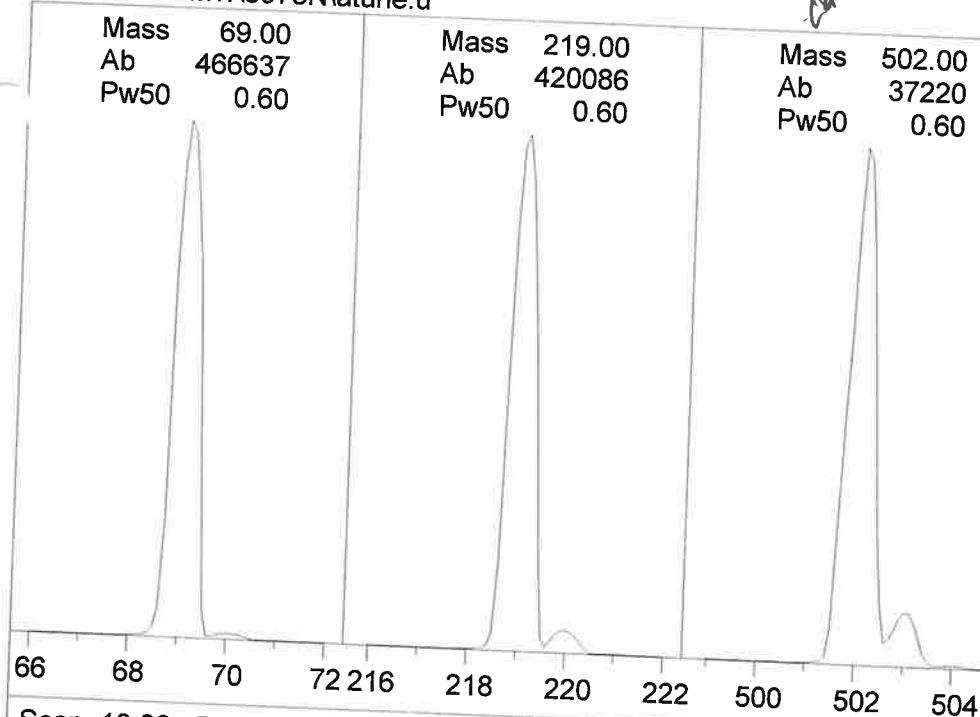
Amu Offset: 131.0 131.0 131.0 131.0 131.0 131.0 131.0
Entrance Lens Offset: 20.1 20.1 20.1 20.1 20.1 20.1 20.1

Fri Jun 02 09:43:42 2017

5973N Autotune

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Instrument: Graceland
US03960484

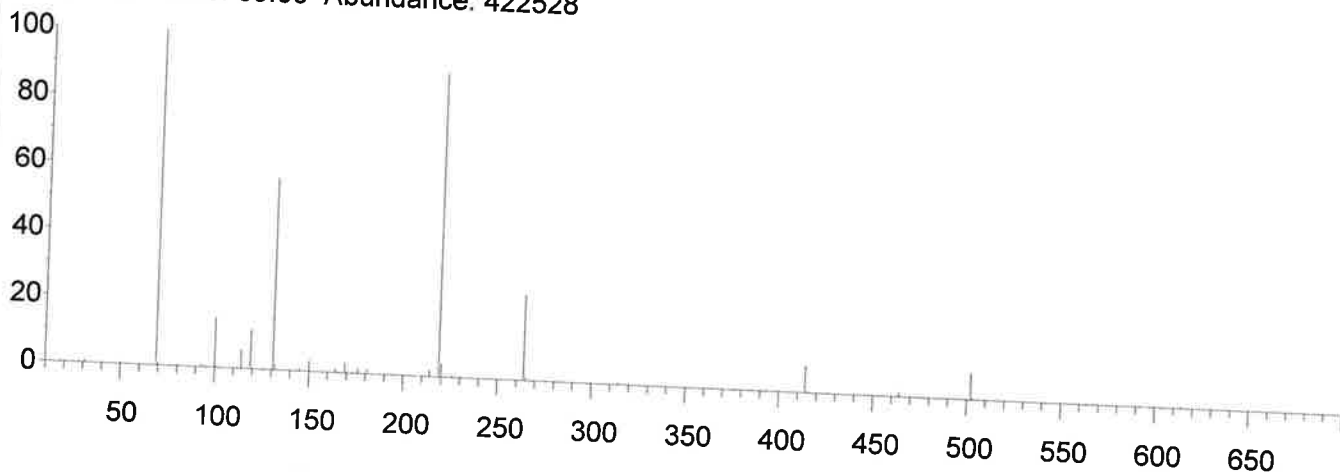


Ion Pol	Pos	MassGain	-5
		MassOffs	-
Emission	34.6	AmuGain	208
EIEnergy	69.9	AmuOffs	13
Filament	1	Wid219	-0.00
		DC Pol	Pos
Repeller	28.45		
IonFcus	89.2	HEDEnab	Or
EntLens	16.5	EMVolts	1482
EntOffs	20.08		
PFTBA	Open	Samples	8
		Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
106 peaks Base: 69.00 Abundance: 422528



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	422528	100.00	70.00	4831	1.14
219.00	381312	90.25	220.00	16816	4.41
502.00	33016	7.81	503.00	3260	9.87

Air/Water Check: H2O~0.54% N2~0.58% O2~0.19% CO2~0.08% N2/H2O~108.29%

Column Flow: Front: 0.826 Back: 2.367 ml/min. Interface Temp: 280

Ramp Criteria:

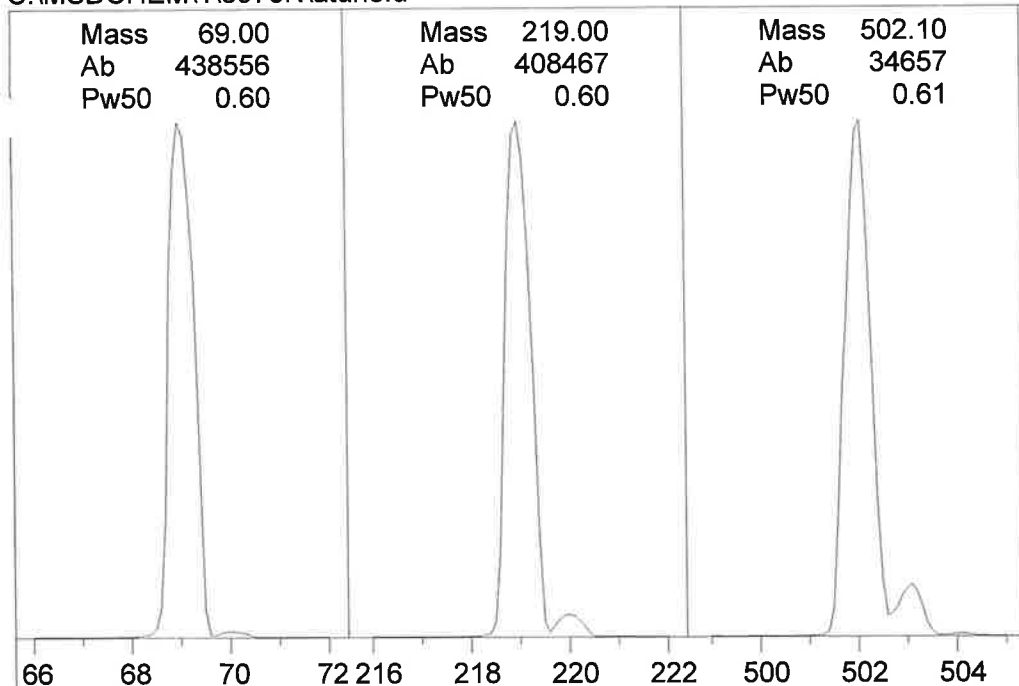
Ion Focus Maximum 90 volts using ion 502; EM Gain 29598
Repeller Maximum 35 volts using ion 219; Gain Factor 0.30

MassGain Values(Samples): -60(3) -58(2) -57(1) -56(0) -58(FS)
TARGET MASS: 50 69 131 219 414 502 800

Amu Offset: 131.0 131.0 131.0 131.0 131.0 131.0 131.0
Entrance Lens Offset: 20.1 20.1 20.1 20.1 20.1 20.1 20.1

Fri May 26 08:20:01 2017

C:\MSDCHEM\1\5973N\atune.u

Instrument: Graceland
US03960484

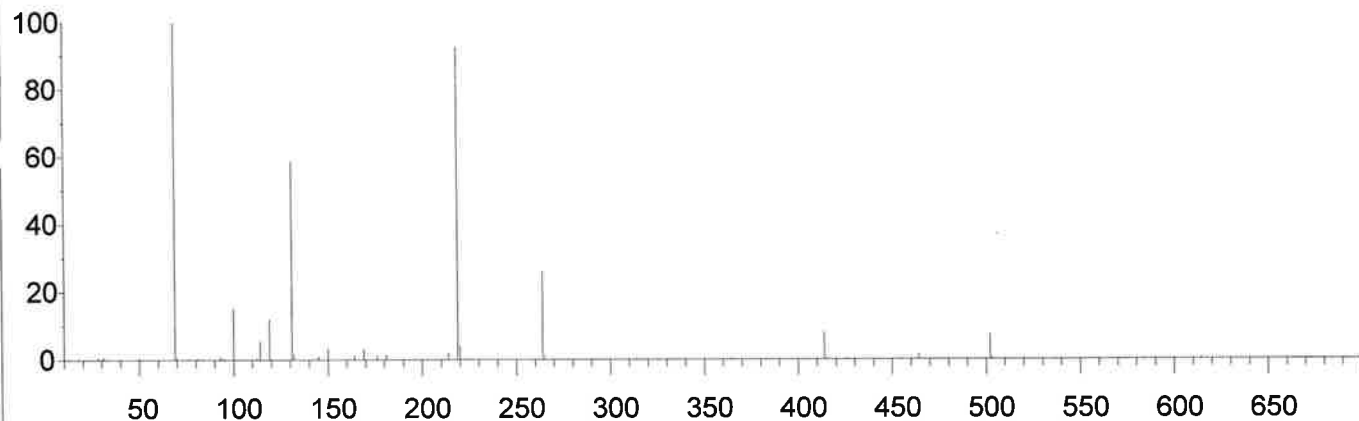
Ion Pol	Pos	MassGain	-57
		MassOffs	-8
Emission	34.6	AmuGain	2093
EIEnergy	69.9	AmuOffs	131
Filament	1	Wid219	-0.003
		DC Pol	Pos
Repeller	28.45		
IonFcus	90.2	HEDenab	On
EntLens	21.5	EMVolts	1482
EntOffs	18.57		
PFTBA	Open	Samples	8
		Averages	3
		Stepsize	0.10

Temperatures and Pressures:

MS Source	230	TurboSpd	100
MS Quad	150		

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10

103 peaks Base: 69.00 Abundance: 399616



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.00	399616	100.00	70.00	4394	1.10
219.00	370368	92.68	220.00	16073	4.34
502.00	29952	7.50	503.00	3301	11.02

Air/Water Check: H2O~0.27% N2~0.76% O2~0.21% CO2~0.05% N2/H2O~285.37%

Column Flow: Front: 0.826 Back: 2.368 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 31036

Repeller Maximum 35 volts using ion 219; Gain Factor 0.31

MassGain Values(Samples): -57(3) -57(2) -57(1) -57(0) -57(FS)

TARGET MASS: 50 69 131 219 414 502 800

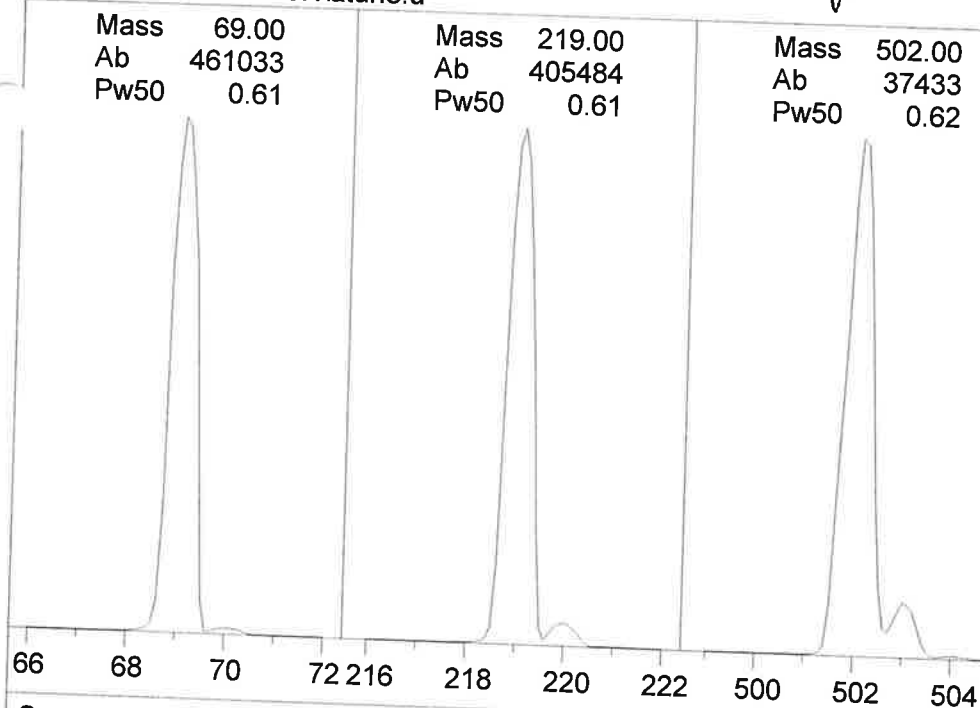
Amu Offset: 131.0 131.0 131.0 131.0 131.0 131.0 131.0

Entrance Lens Offset: 18.6 18.6 18.6 18.6 18.6 18.6 18.6

Tue May 16 10:37:20 2017
C:\MSDCHEM\1\5973N\atune.u

5973N Autotune

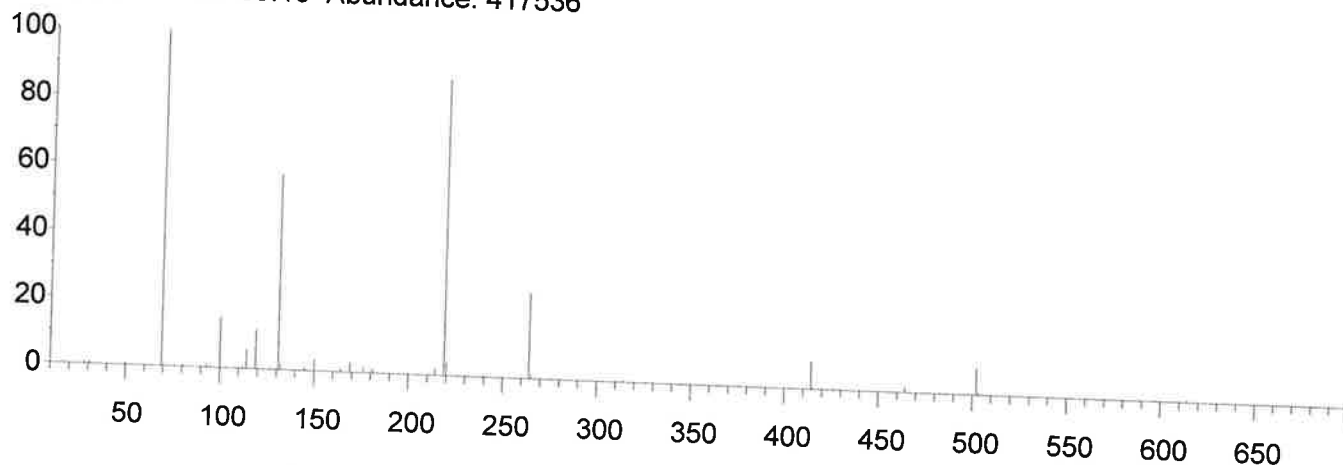
Instrument: GRACELAND
US03960484



Ion Pol	Pos	MassGain	
		MassOffs	-8
Emission	34.6	AmuGain	2083
EIEnergy	69.9	AmuOffs	130
Filament	1	Wid219	-0.018
		DC Pol	Pos
Repeller	28.28		
IonFcus	89.2	HEDenab	On
EntLens	14.5	EMVolts	1388
EntOffs	20.08		
PFTBA	Open	Samples	8
		Averages	3
		Stepsize	0.10

Temperatures and Pressures:
MS Source 230 TurboSpd 100
MS Quad 150

Scan: 10.00 - 700.00 Samples: 8 Thresh: 100 Step: 0.10
104 peaks Base: 69.10 Abundance: 417536



Mass	Abund	Rel Abund	Iso Mass	Iso Abund	Iso Ratio
69.10	417536	100.00	70.10	4653	1.11
219.00	367040	87.91	220.00	16007	4.36
502.10	33816	8.10	503.10	3422	10.12

Air/Water Check: H2O~0.41% N2~0.76% O2~0.28% CO2~0.08% N2/H2O~183.70%

Column Flow: Front: 0.826 Back: 1.162 ml/min. Interface Temp: 280

Ramp Criteria:

Ion Focus Maximum 90 volts using ion 502; EM Gain 21127
Repeller Maximum 35 volts using ion 219; Gain Factor 0.21

MassGain Values(Samples): -49(3) -56(2) -56(1) -62(0) -56(FS)
TARGET MASS: 50 69 131 219 414 502 800

Amu Offset: 130.0 130.0 130.0 130.0 130.0 130.0 130.0
Entrance Lens Offset: 20.1 20.1 20.1 20.1 20.1 20.1 20.1

Handwritten signature and date:
May 16, 2017

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP1 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 9:22

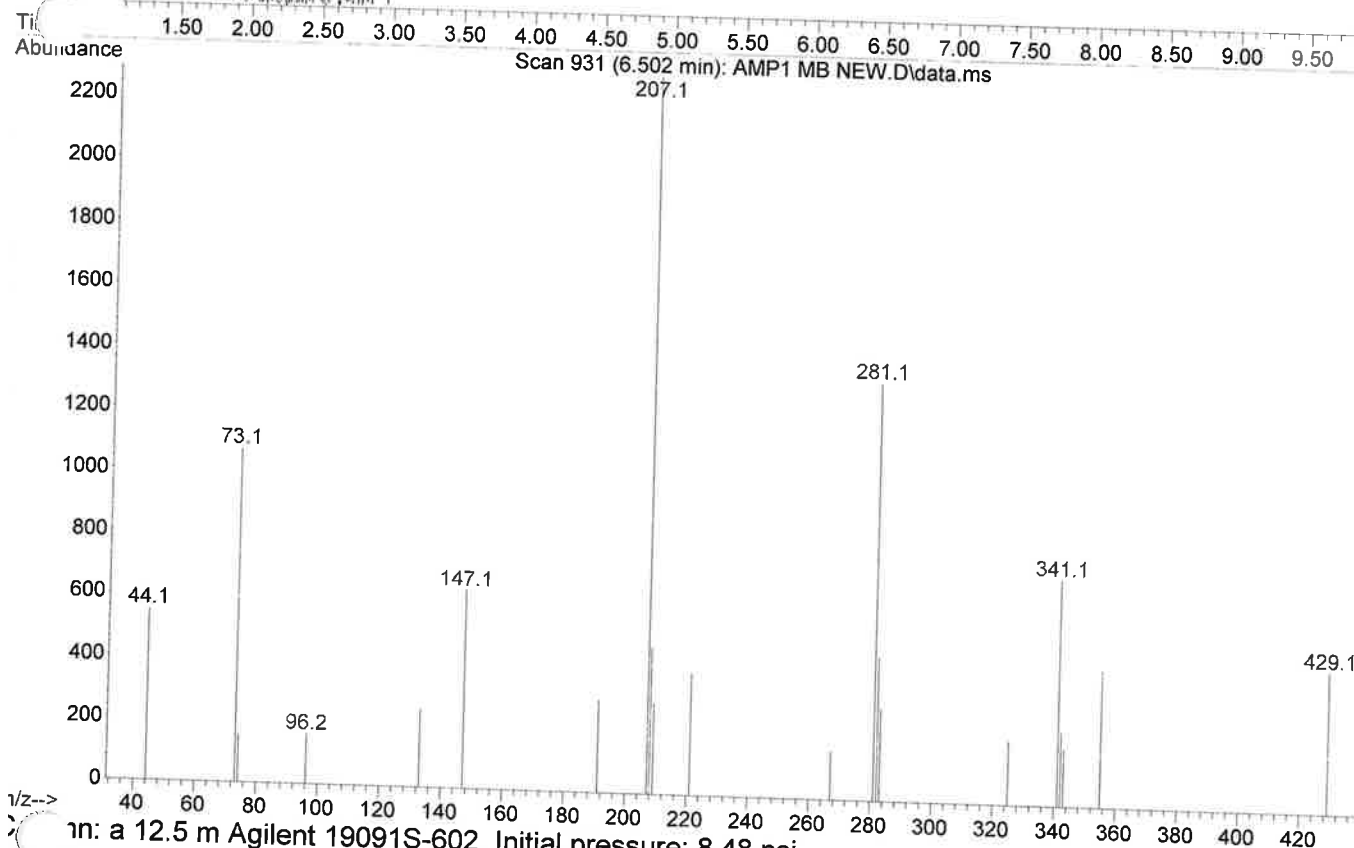
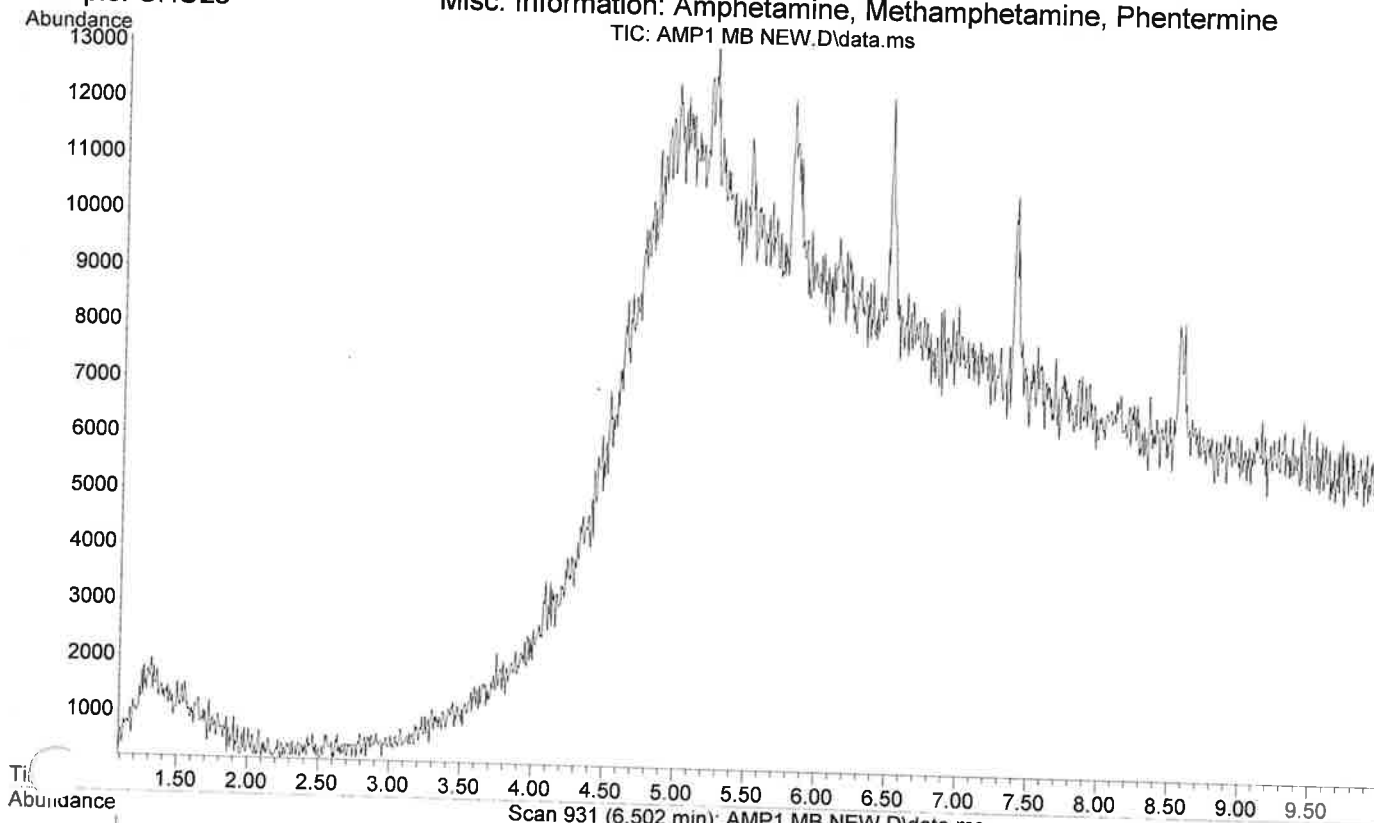
Method: C:\MSDCHEM\1\METHODS\ASMS\DRUGS100.M

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP1 MB NEW.D\data.ms

Emc

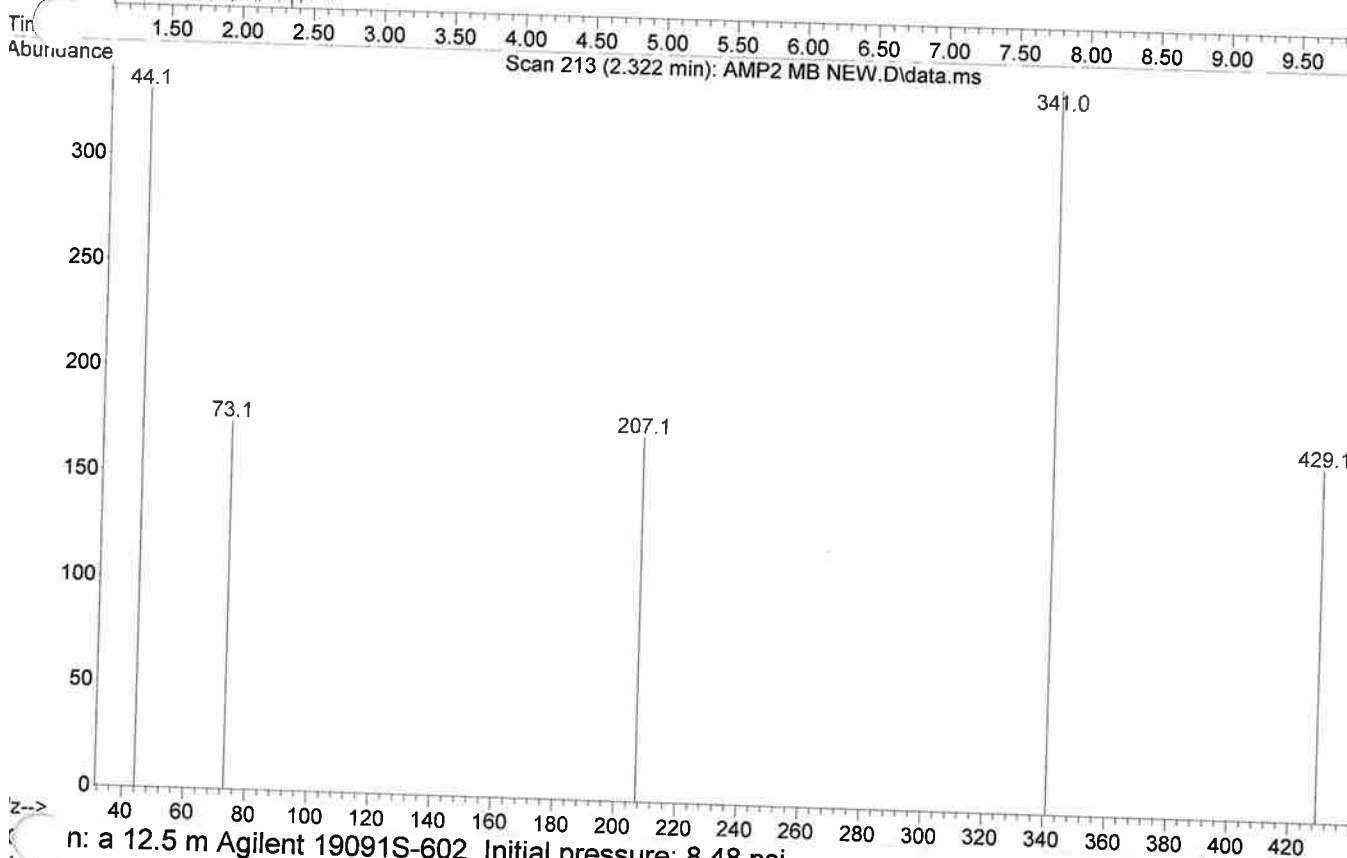
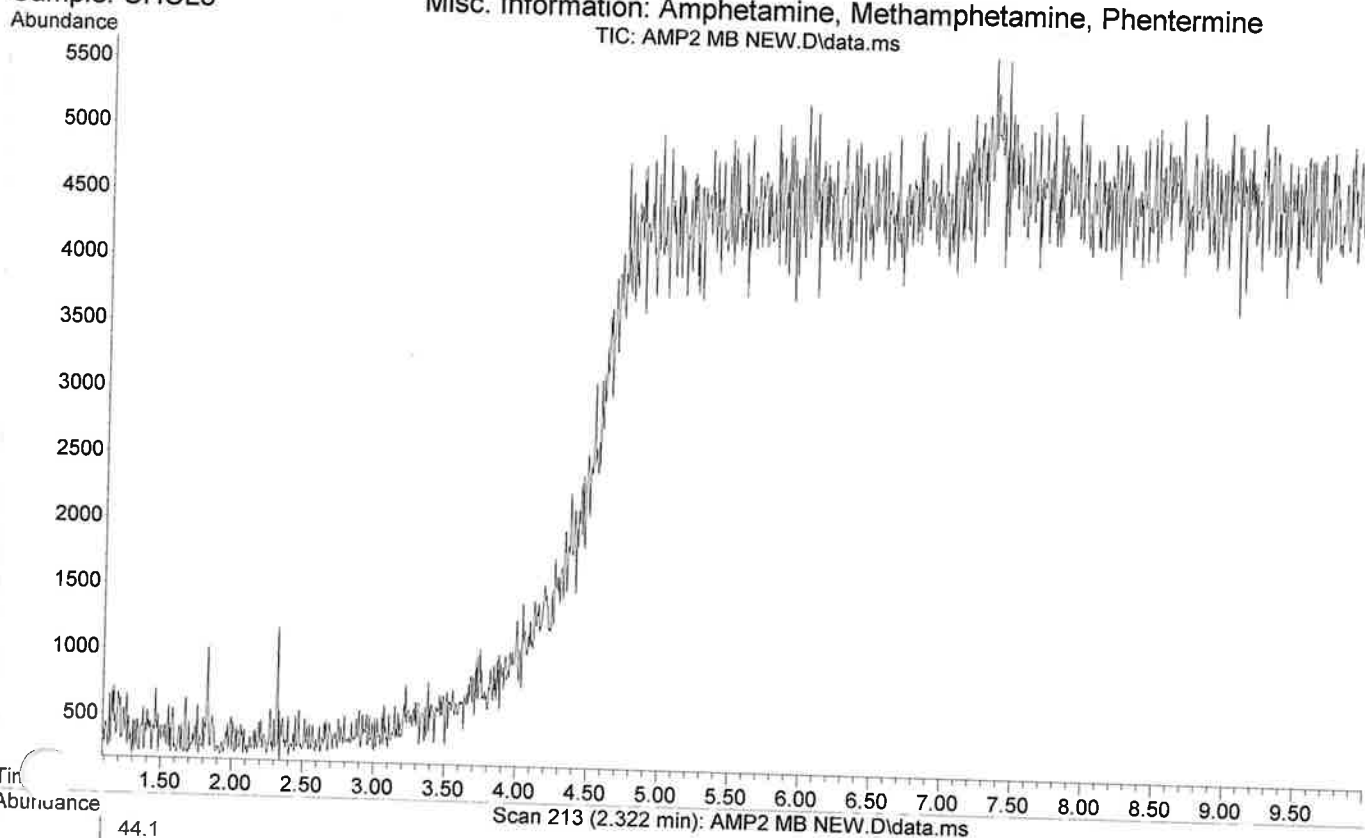


Scan: 931 (6.502 min): AMP1 MB NEW.D\data.ms
Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Oven temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP2 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 9:51
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M

GMC

Misc. Information: Amphetamine, Methamphetamine, Phentermine



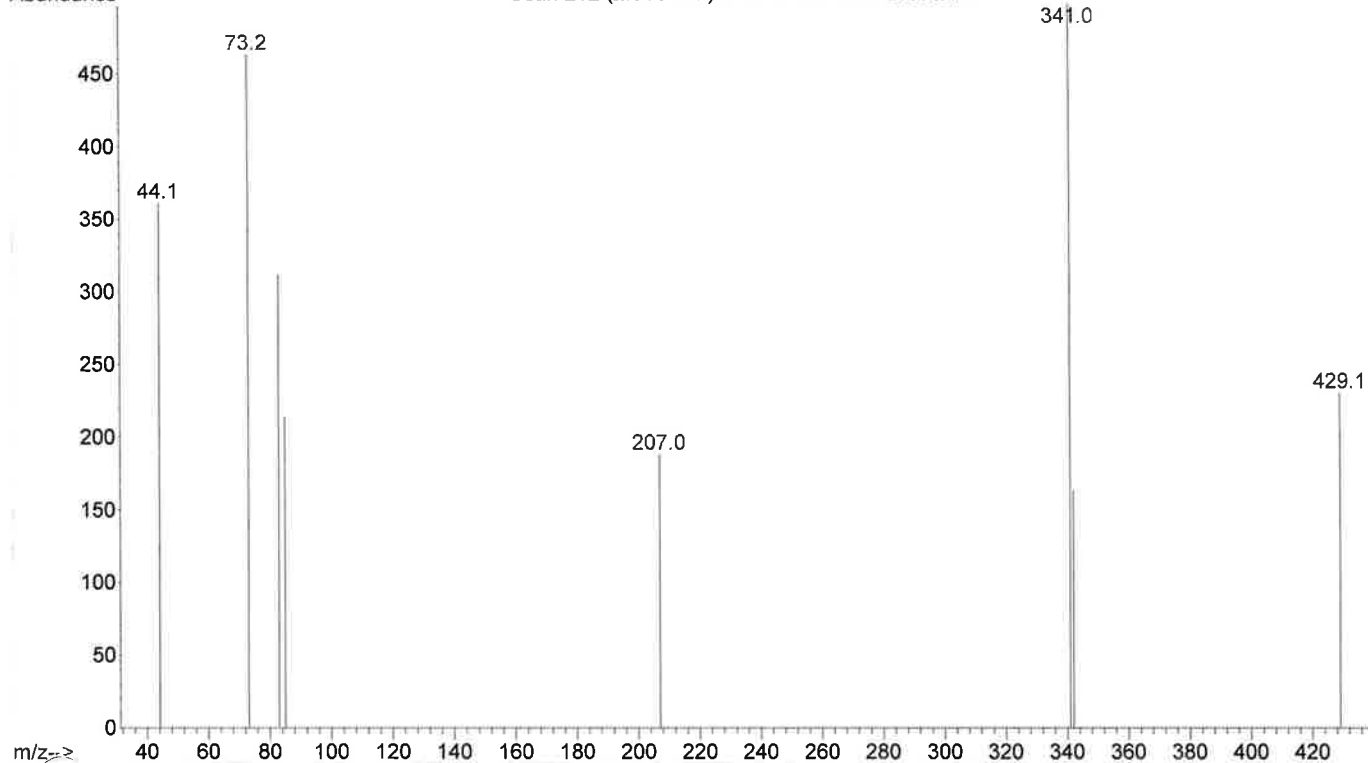
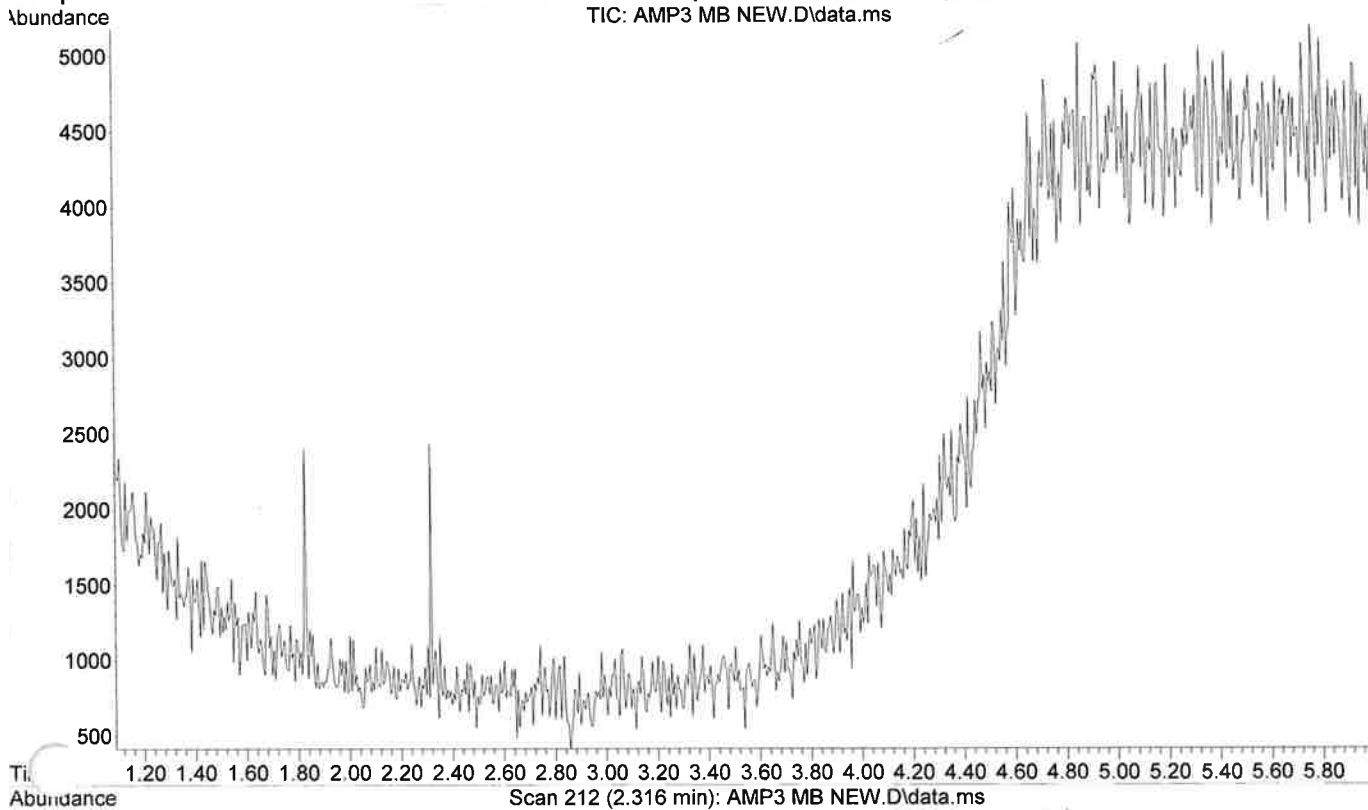
Method: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP3 MB NEW.D
Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:19
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M

Emc

Sample: CHCL3

Misc. Information: Amphetamine, Methamphetamine, Phentermine

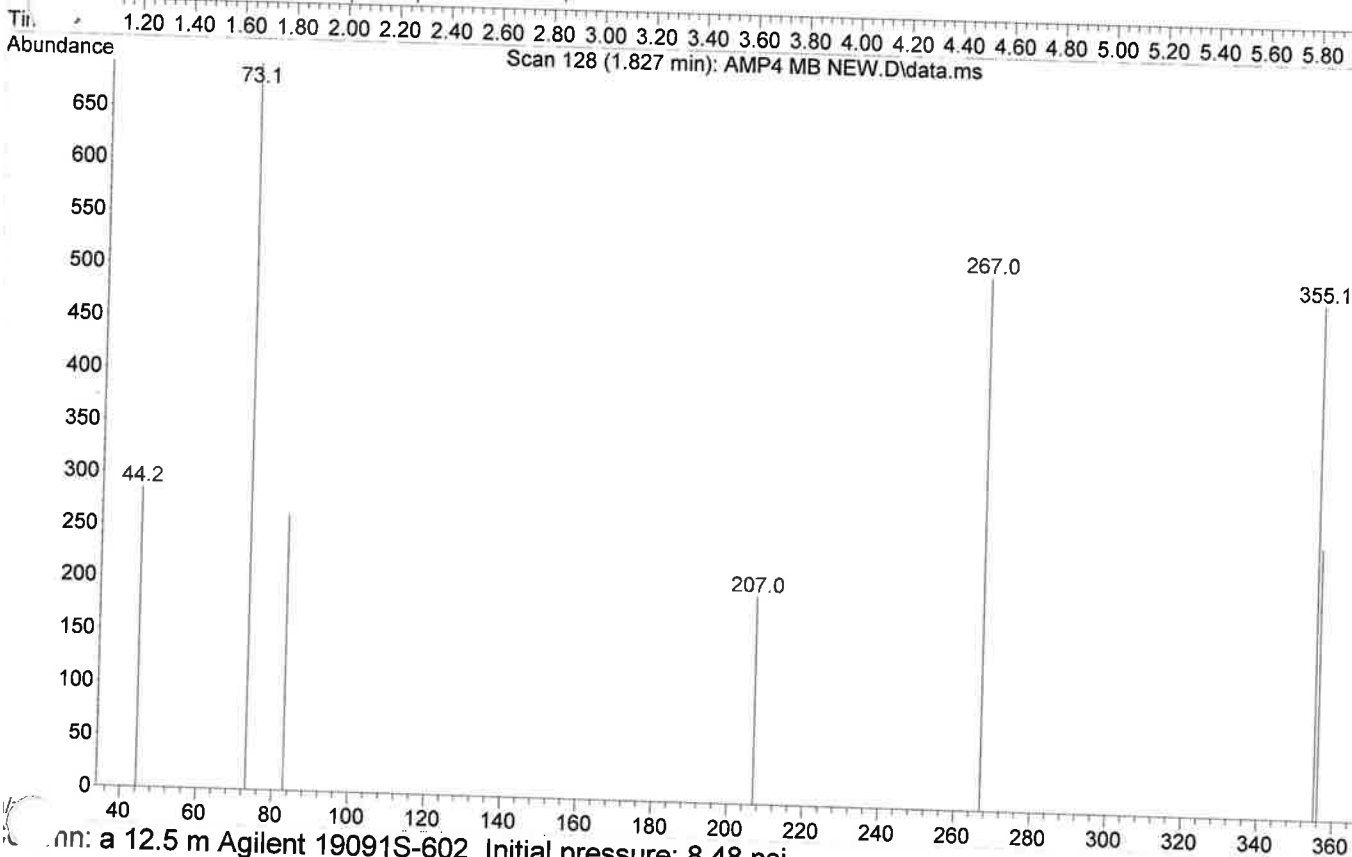
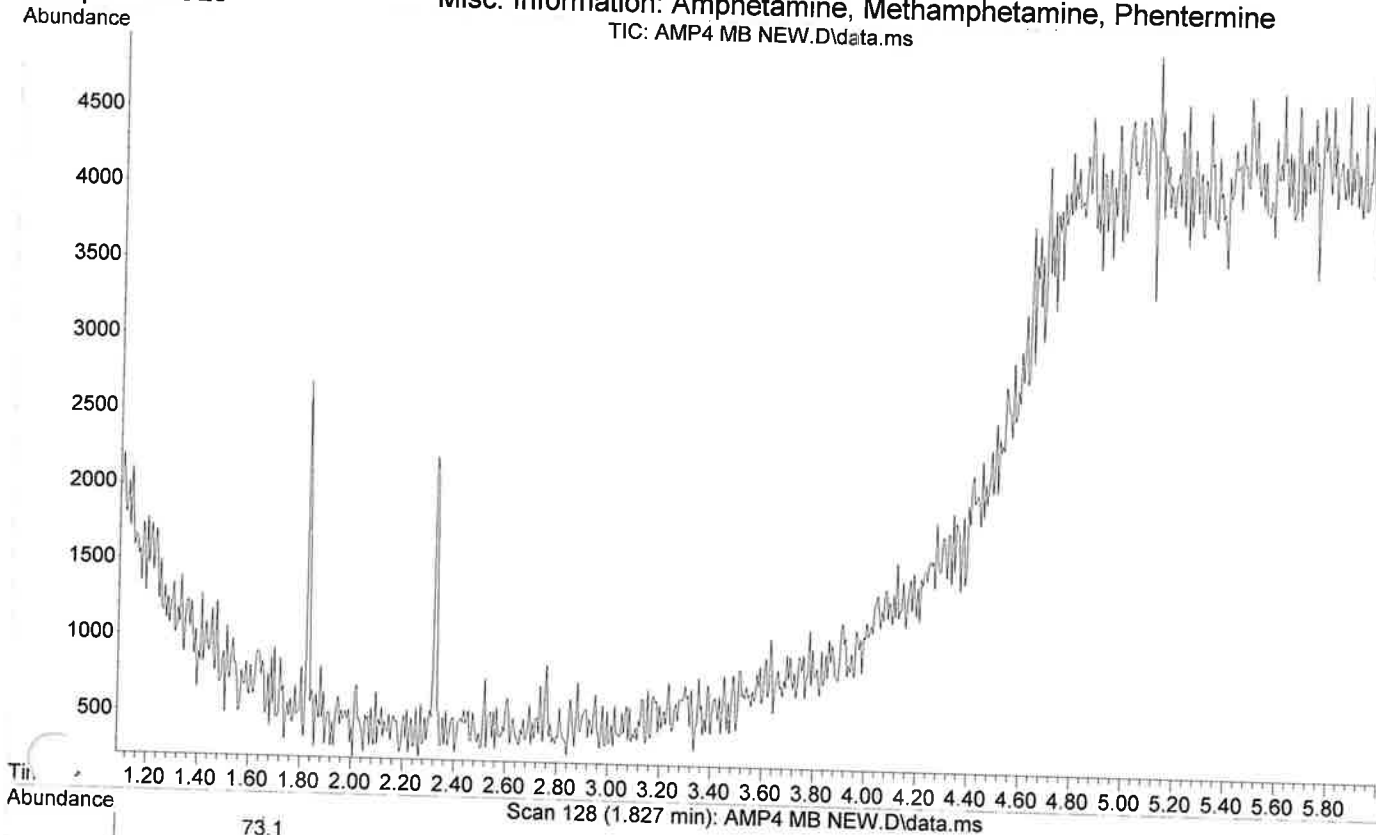


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP4 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 10:40
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M
Sample: CHCL3

Bne

Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP4 MB NEW.D\data.ms

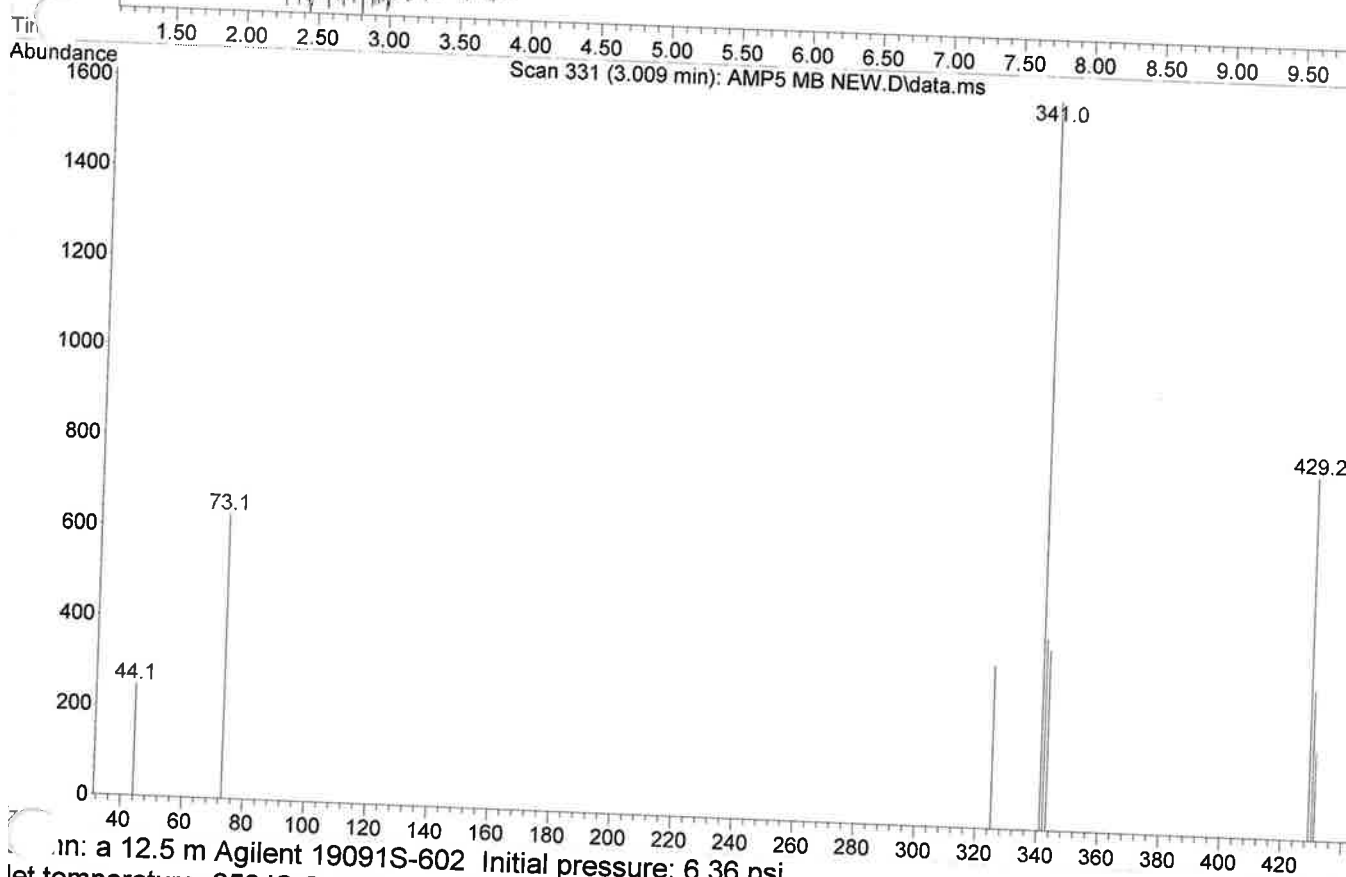
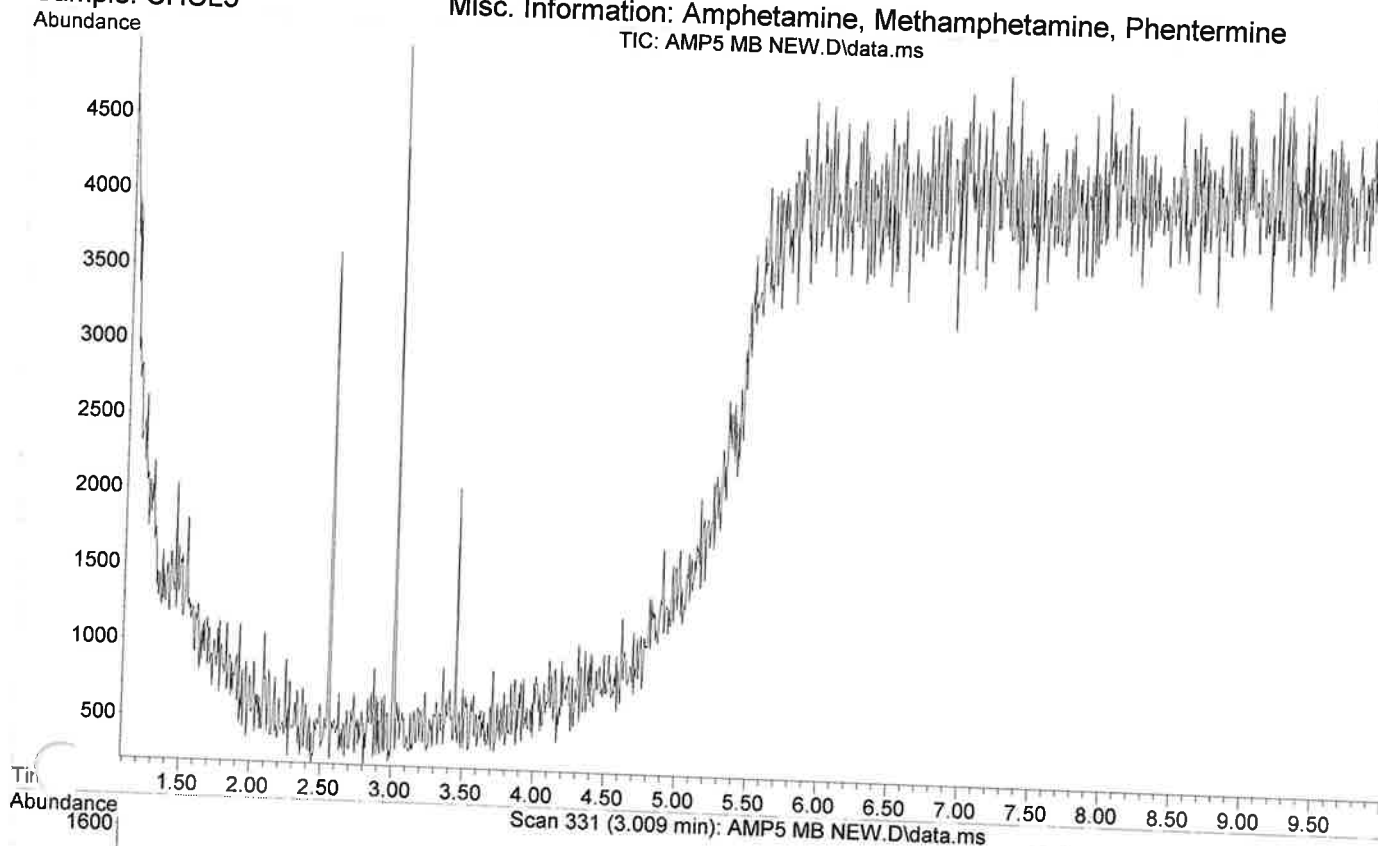


Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP5 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 11:03
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M
Sample: CHCL3

fine

Misc. Information: Amphetamine, Methamphetamine, Phentermine
TIC: AMP5 MB NEW.D\data.ms



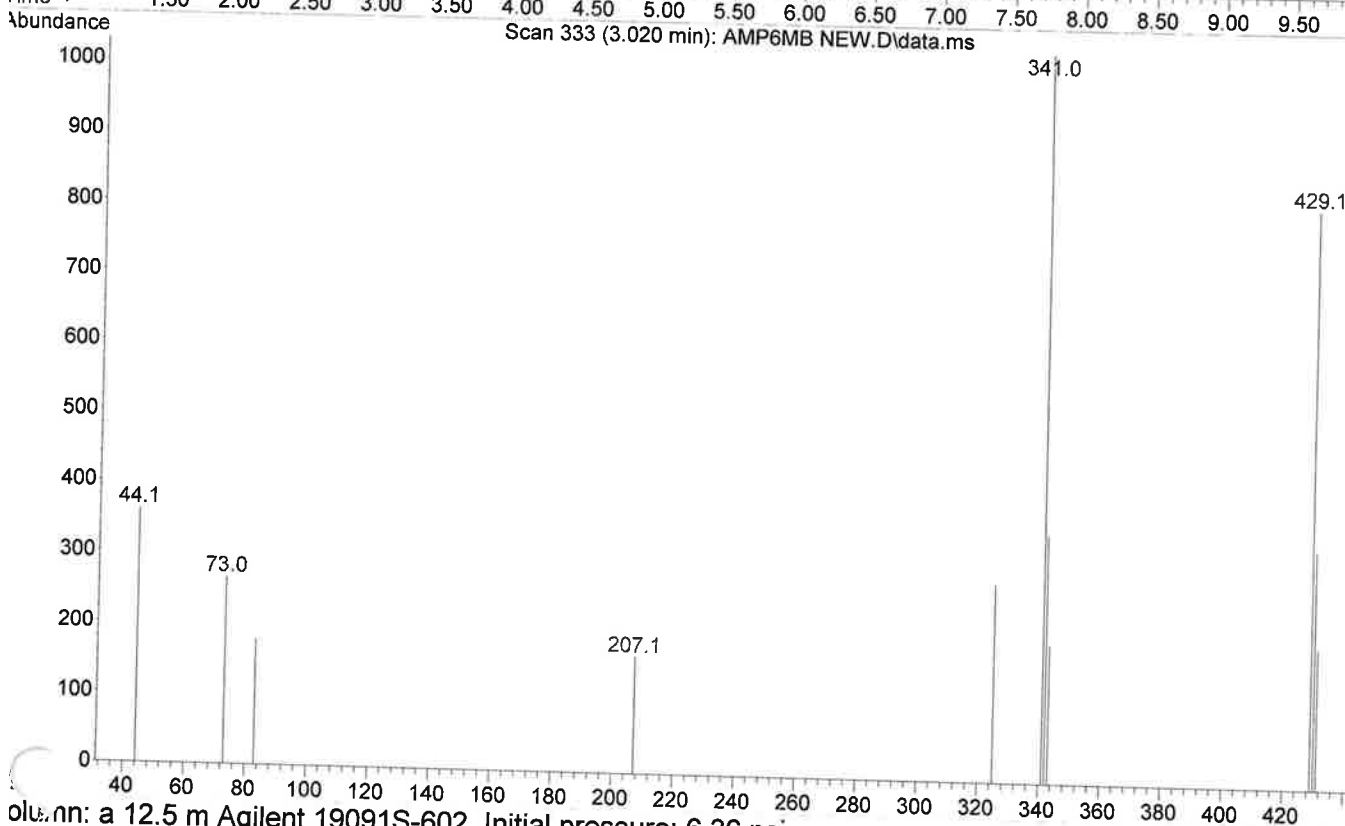
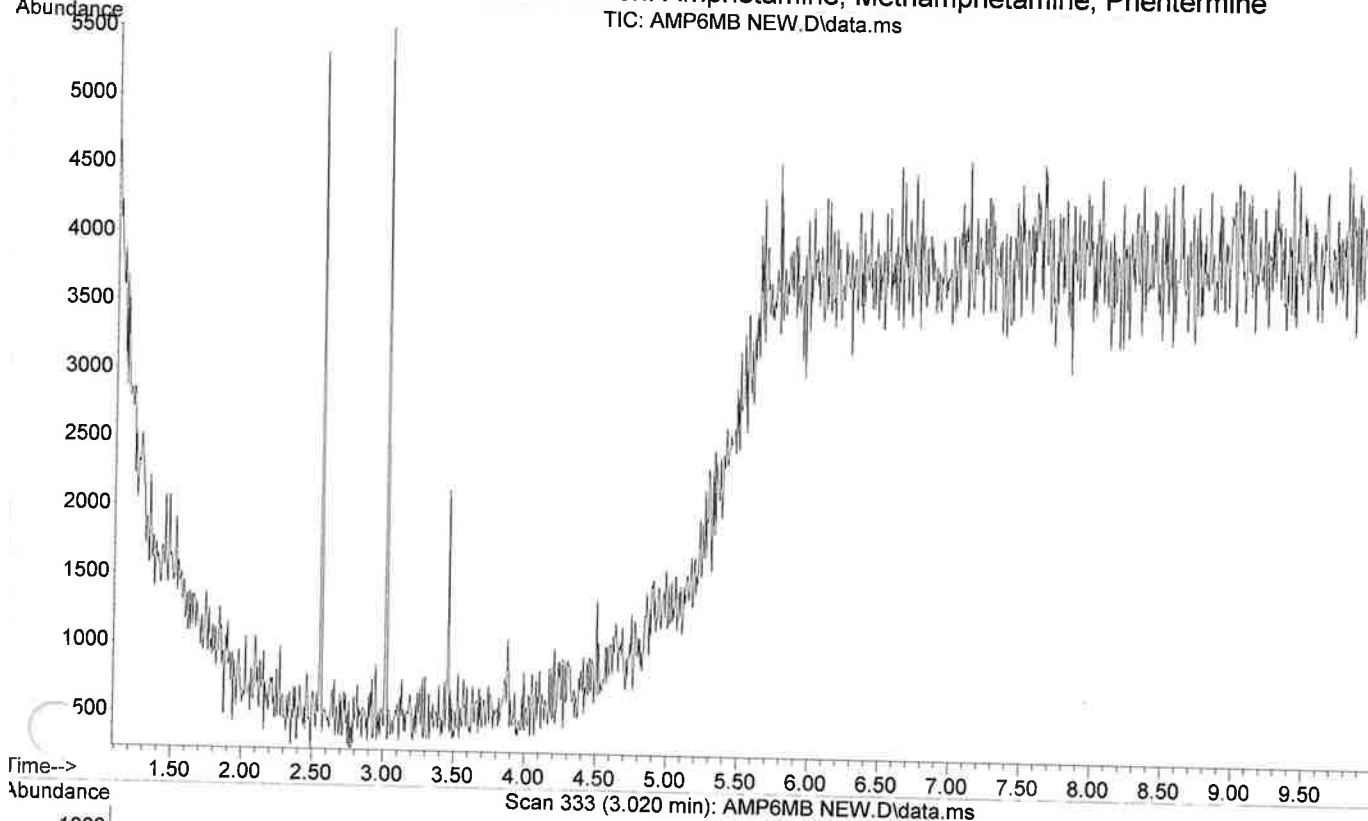
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\AMP6MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 11:43
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M
Sample: CHCL3

Eme

Misc. Information: Amphetamine, Methamphetamine, Phentermine

TIC: AMP6MB NEW.D\data.ms

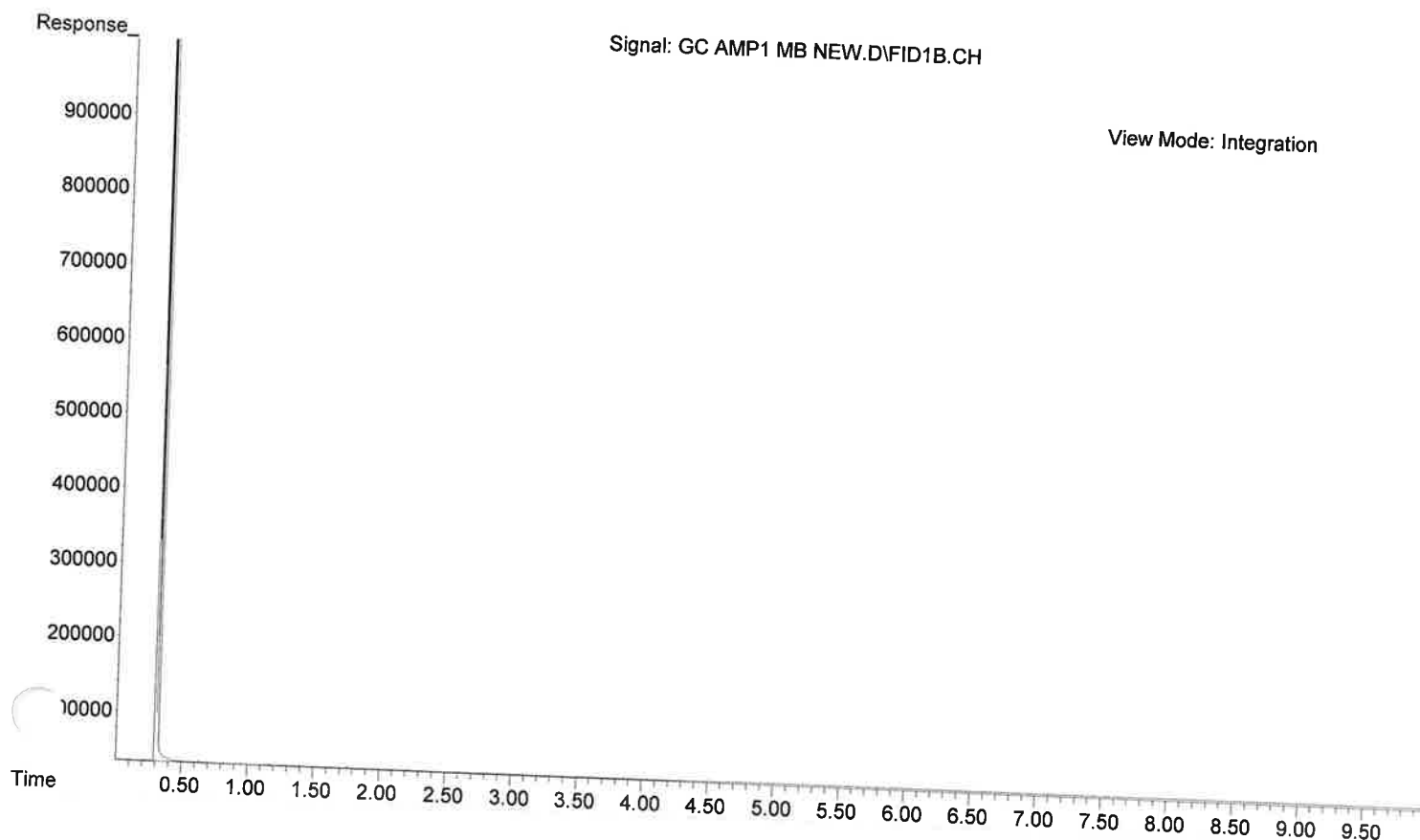


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP1 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:13:39 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
Mixture : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

LSB

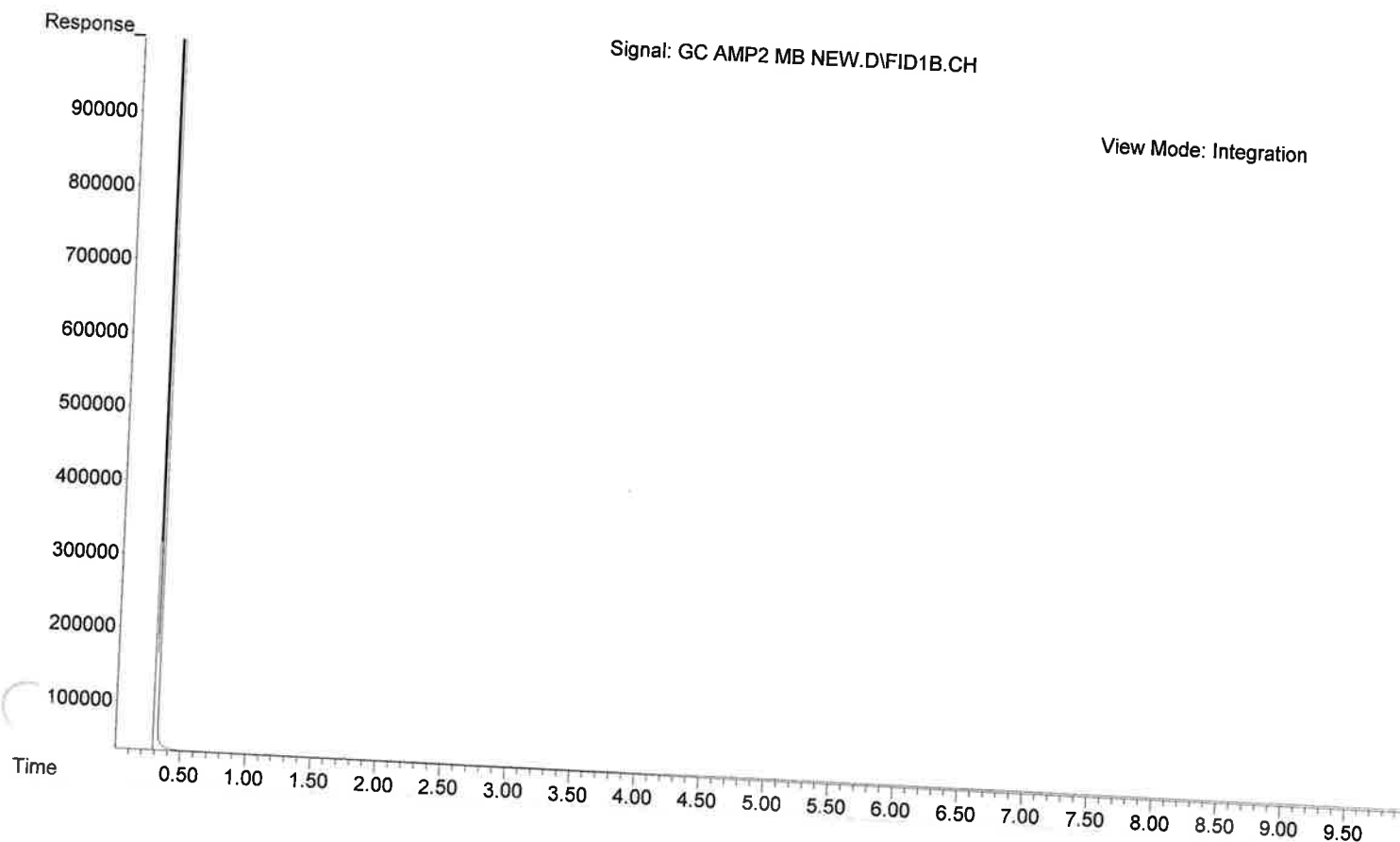
Bmc



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP2 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 12:42:50 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: CHCL3
M Info : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

OK

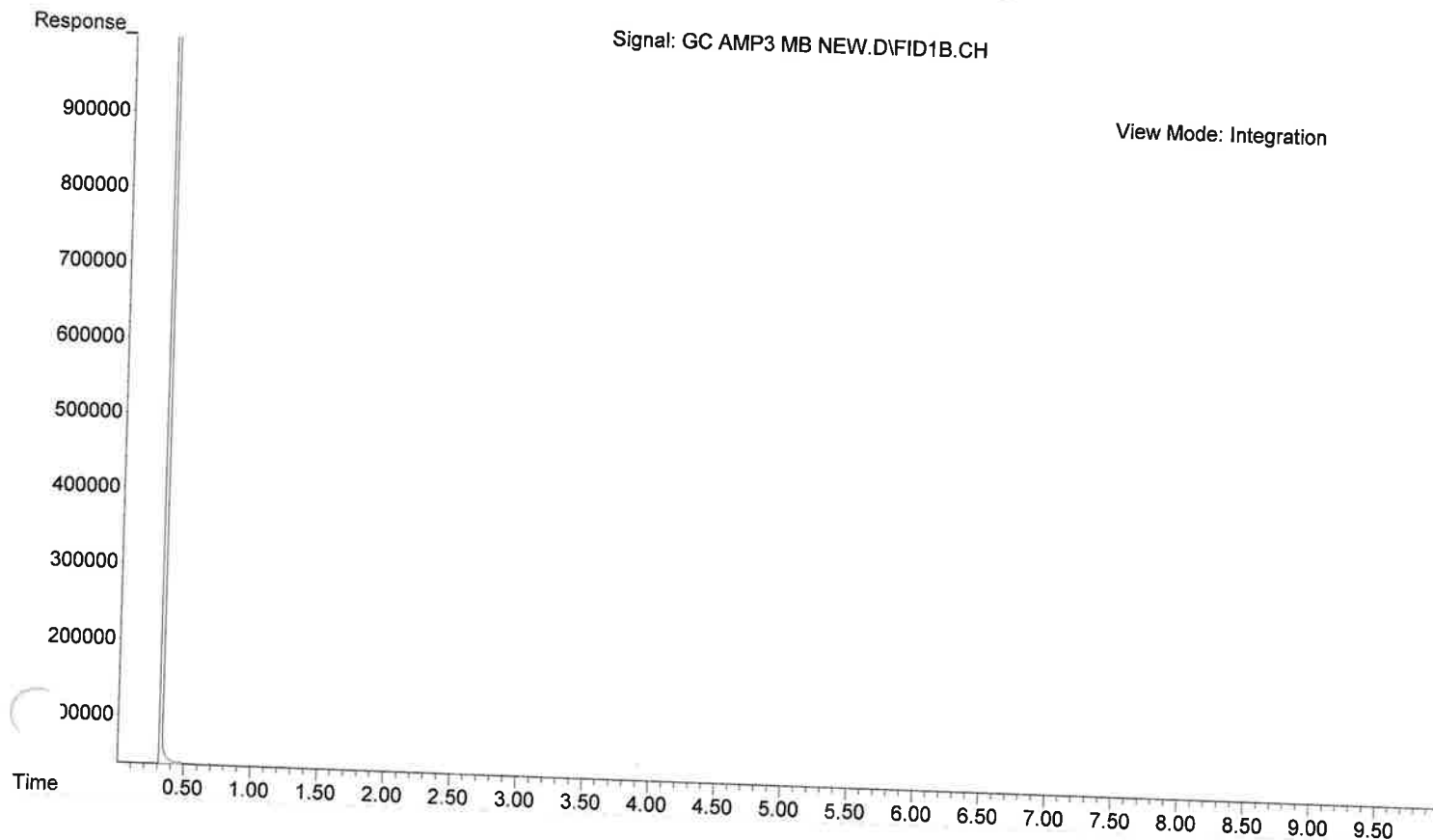
One



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP3 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:10:59 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
Mixture : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

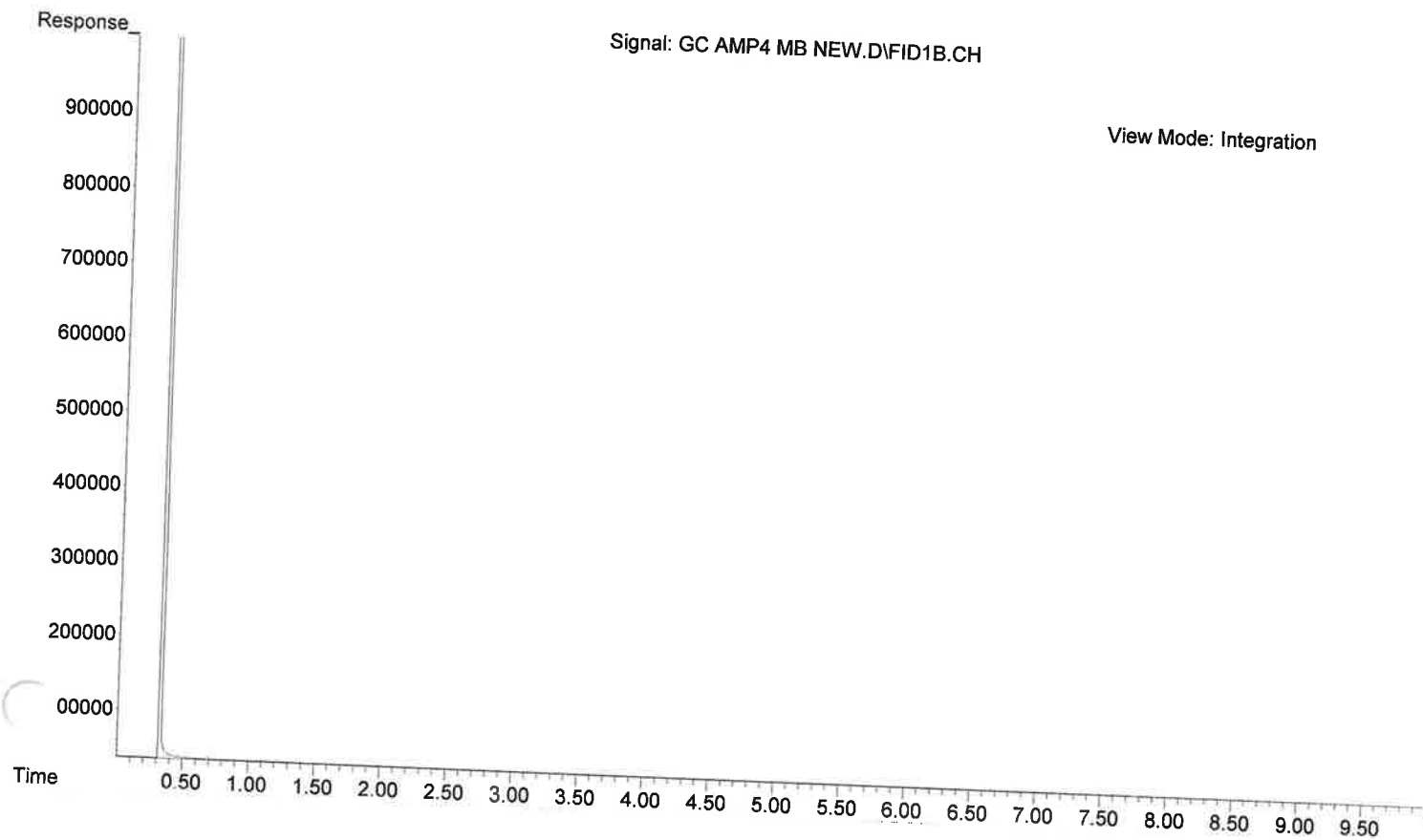
OST

One



File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC AMP4 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 13:35:02 using AcqMethod ASGC150ISO.M
Instrument : Graceland
Sample Name: CHCL3
M. nfo : Amphetamine, Methamphetamine, Phentermine
Vial Number: 0

One



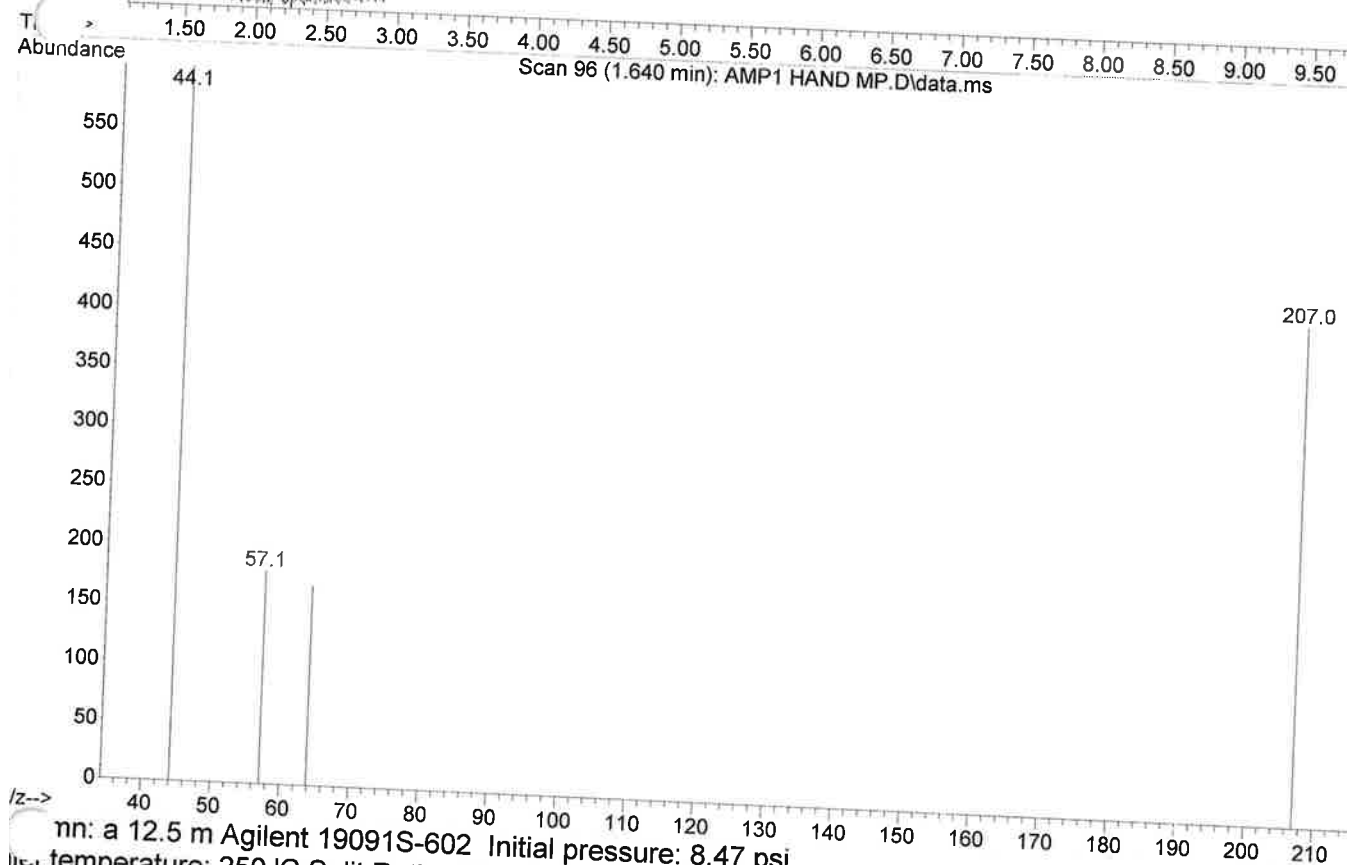
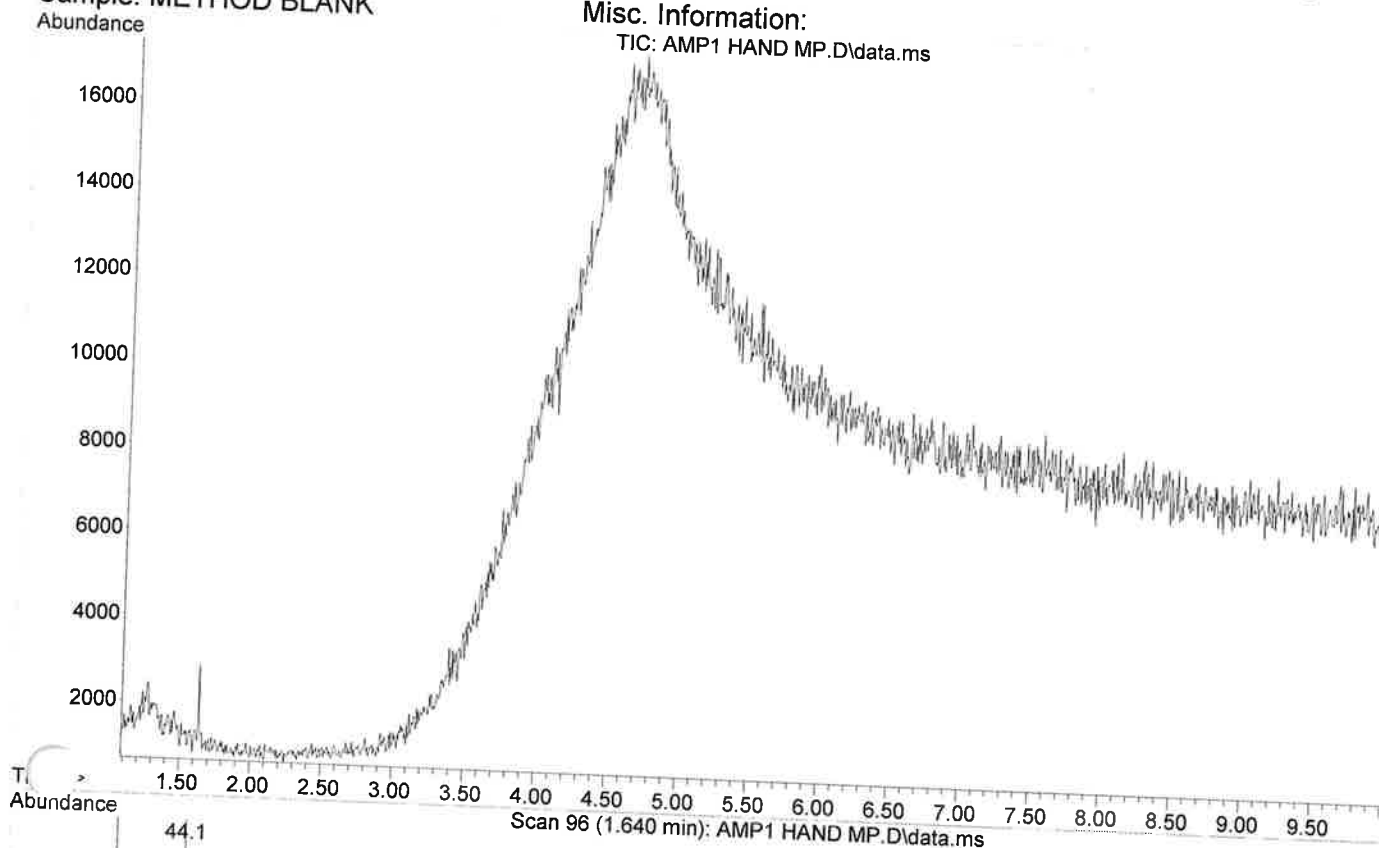
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP1 HAND MP.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 9:16
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M
Sample: METHOD BLANK

WSD

One

Misc. Information:

TIC: AMP1 HAND MP.D\data.ms



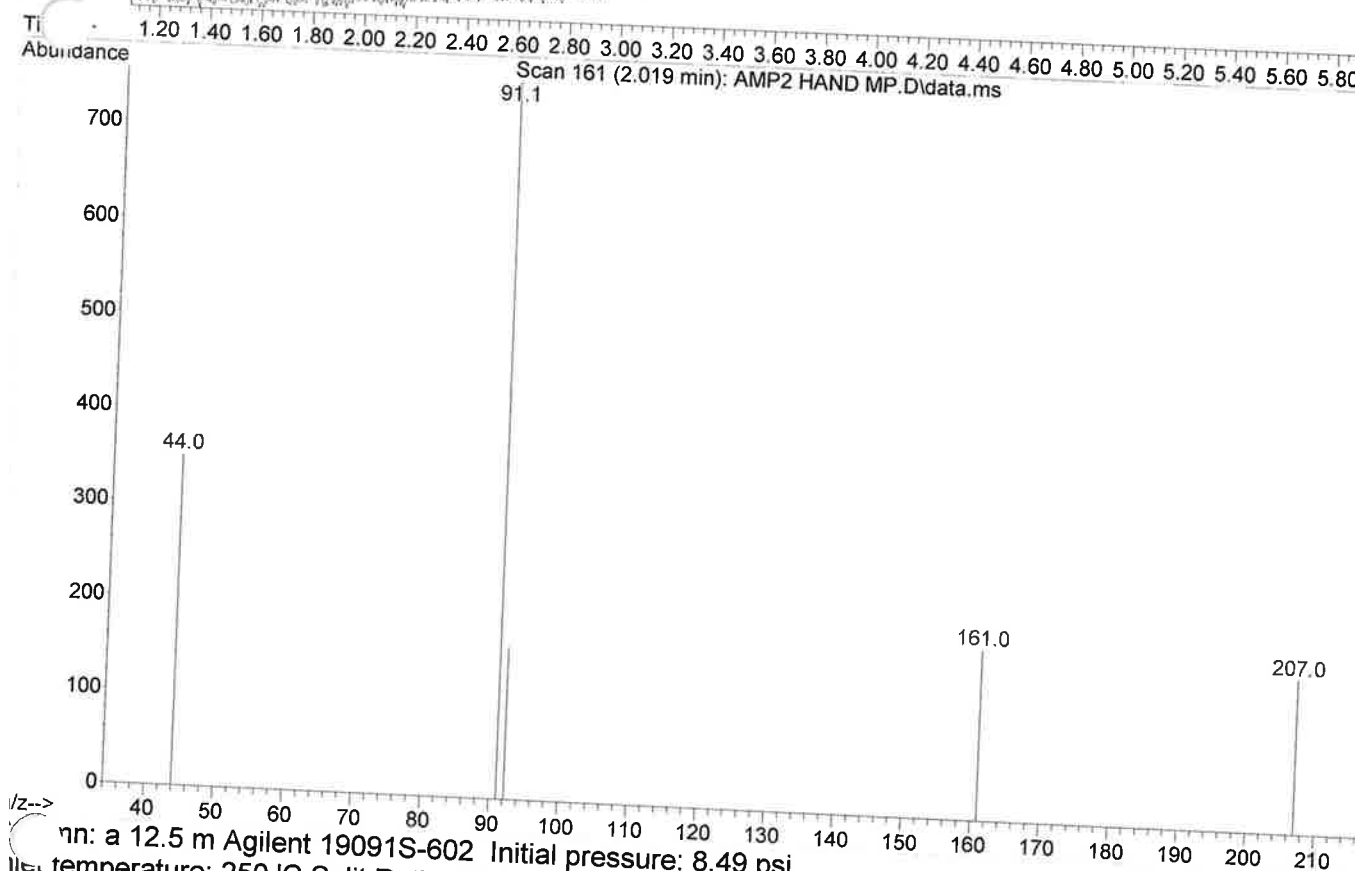
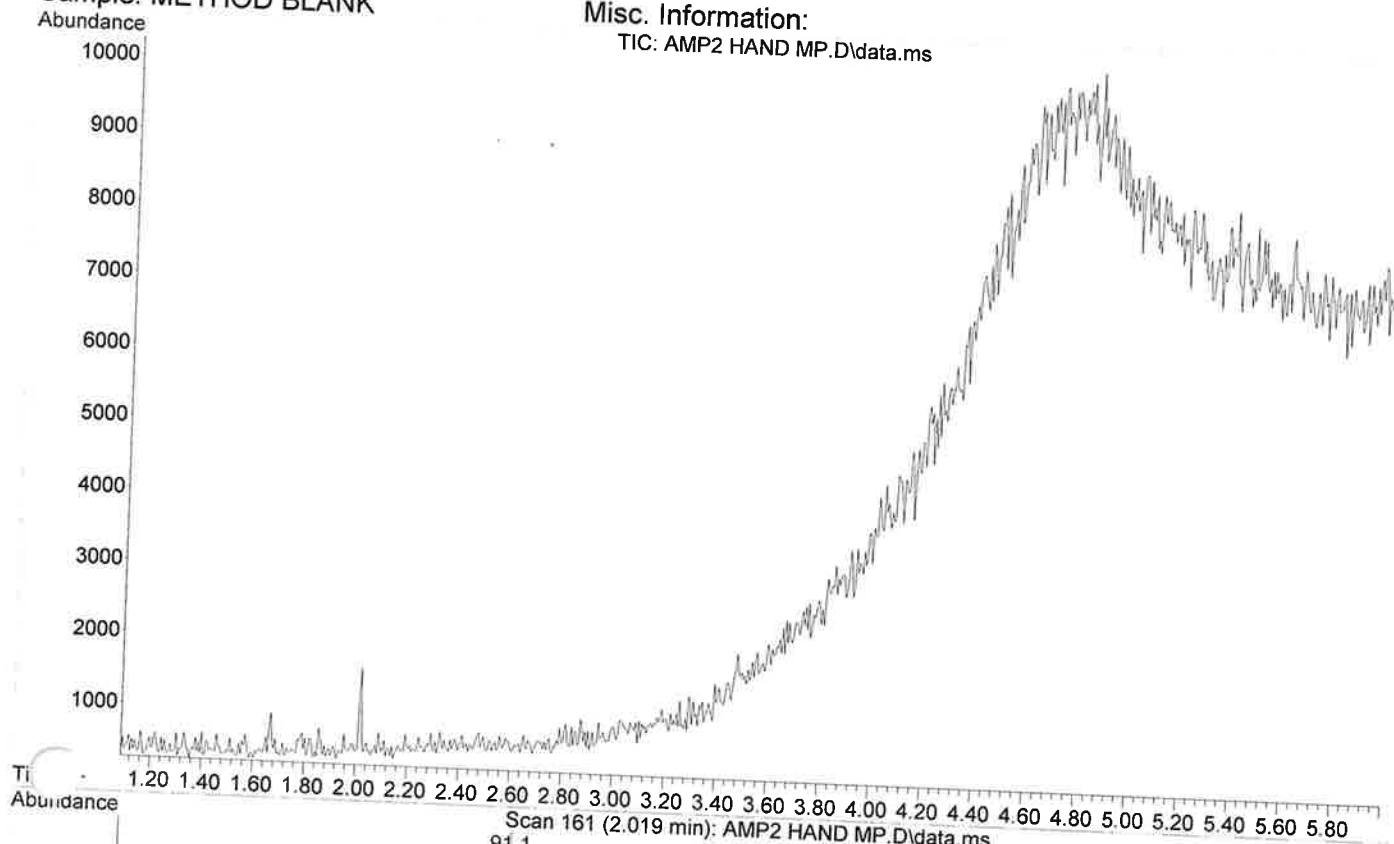
Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP2 HAND MP.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 9:46

One

Method: C:\MSDCHEM\1\METHODS\MS100TR.M
Sample: METHOD BLANK

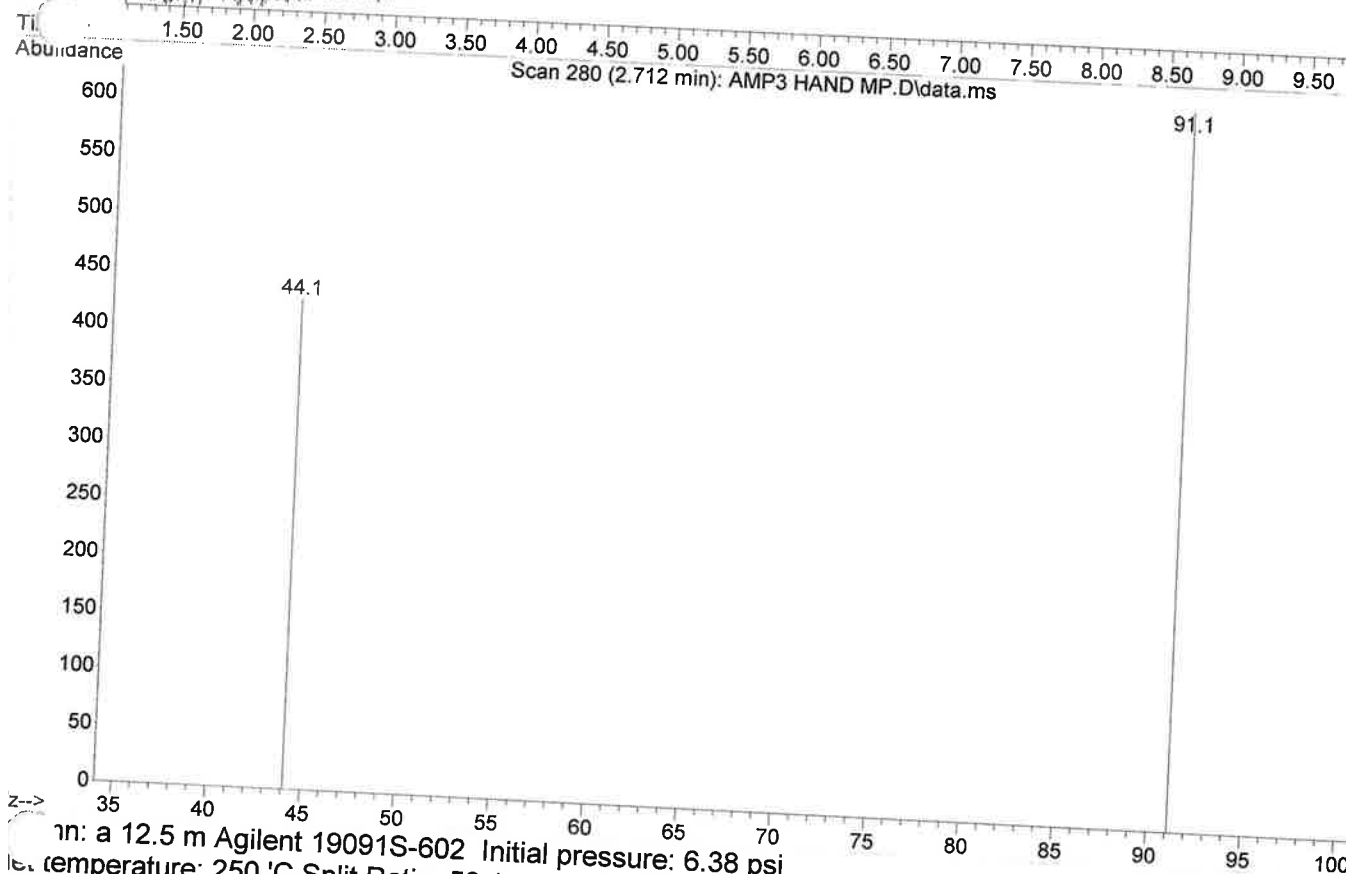
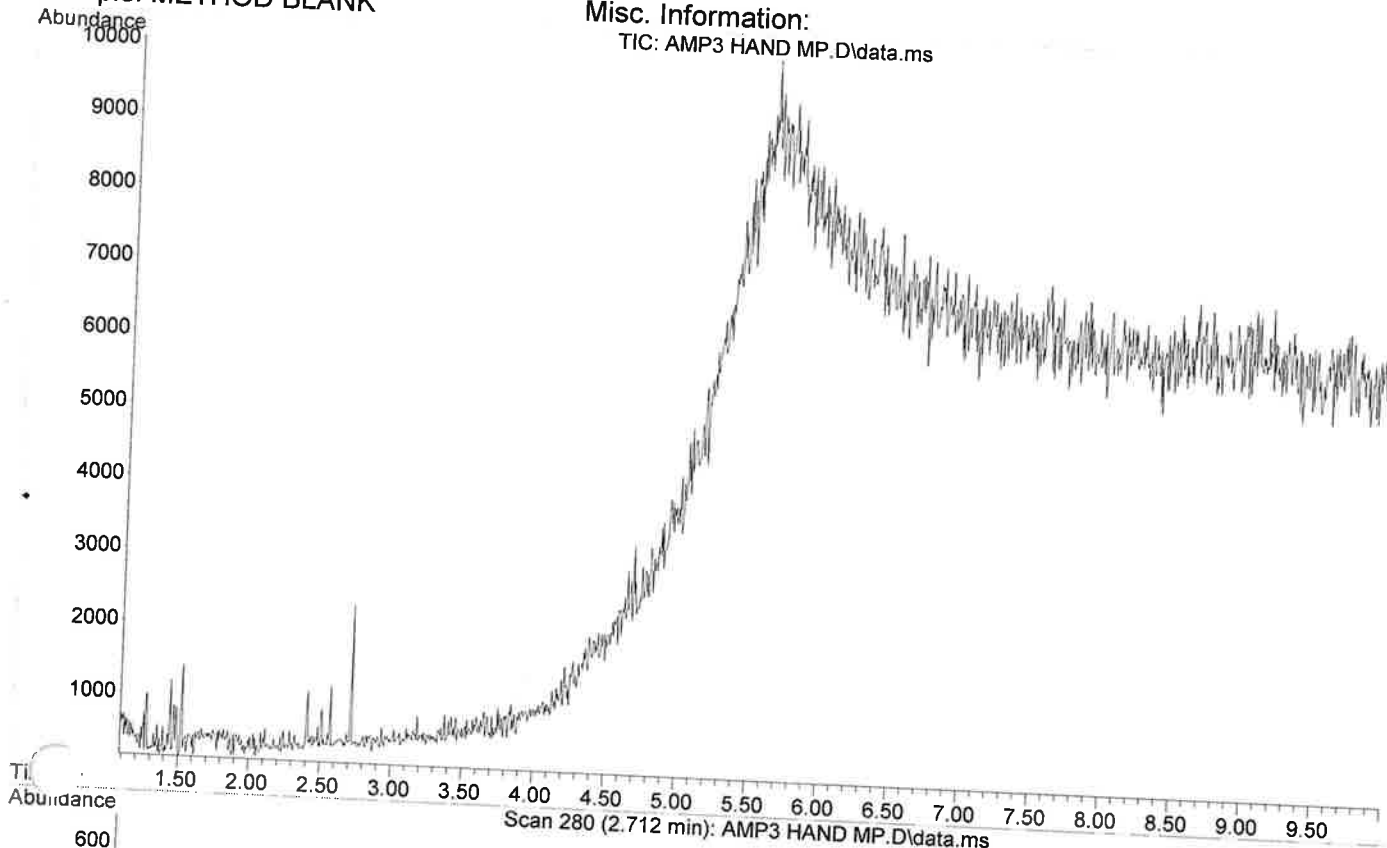
Misc. Information:
TIC: AMP2 HAND MP.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP3 HAND MP.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 10:06
Method: C:\MSDCHEM\1\METHODS\MSDRUGS60.M
Sample: METHOD BLANK

Misc. Information:
TIC: AMP3 HAND MP.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.38 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP4 GC HAND MP.D

Tuned on 27 Feb 2008 3:32 am Scanned from to amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: on 26-Jun-17, 10:33:31

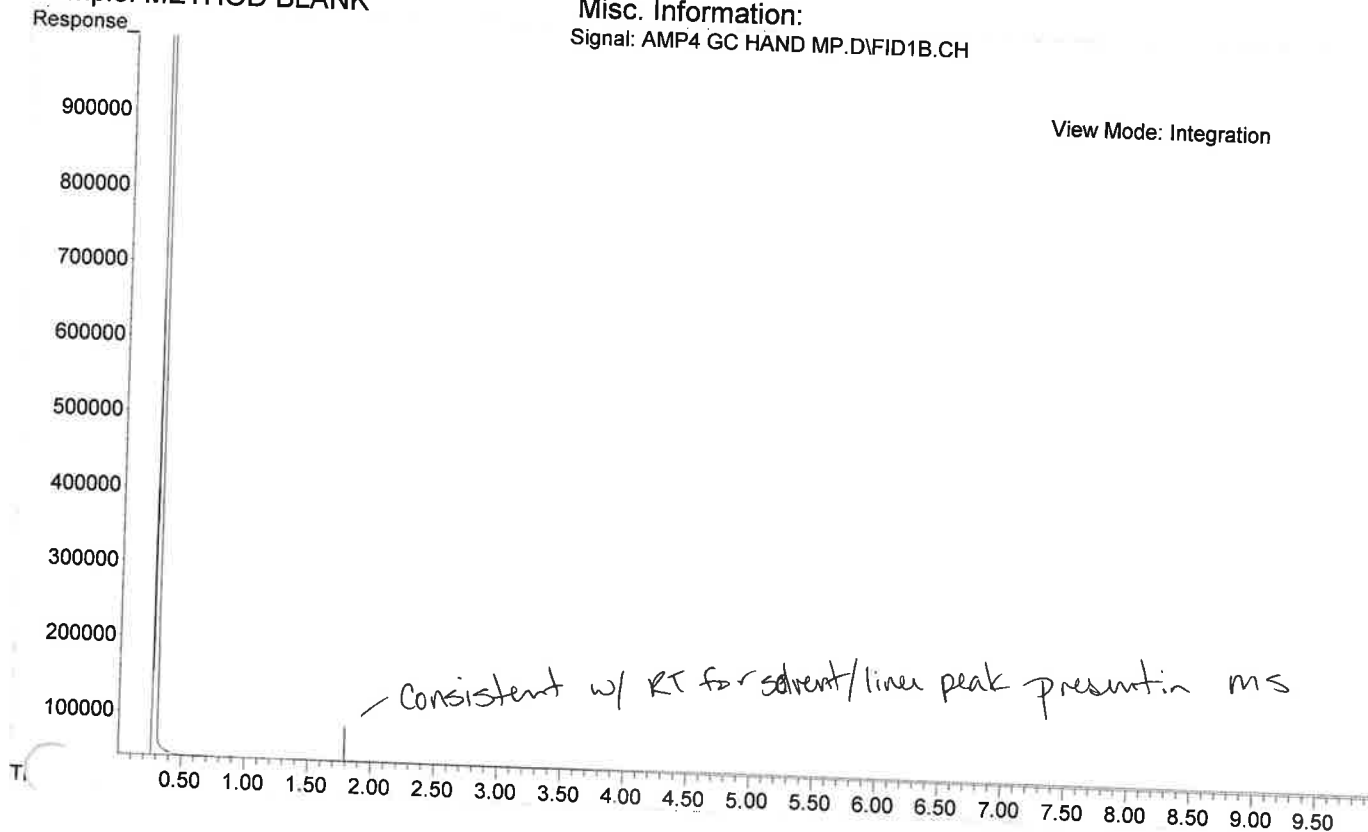
Method: C:\MSDCHEM\1\METHODS\GC100.M

Sample: METHOD BLANK

Misc. Information:

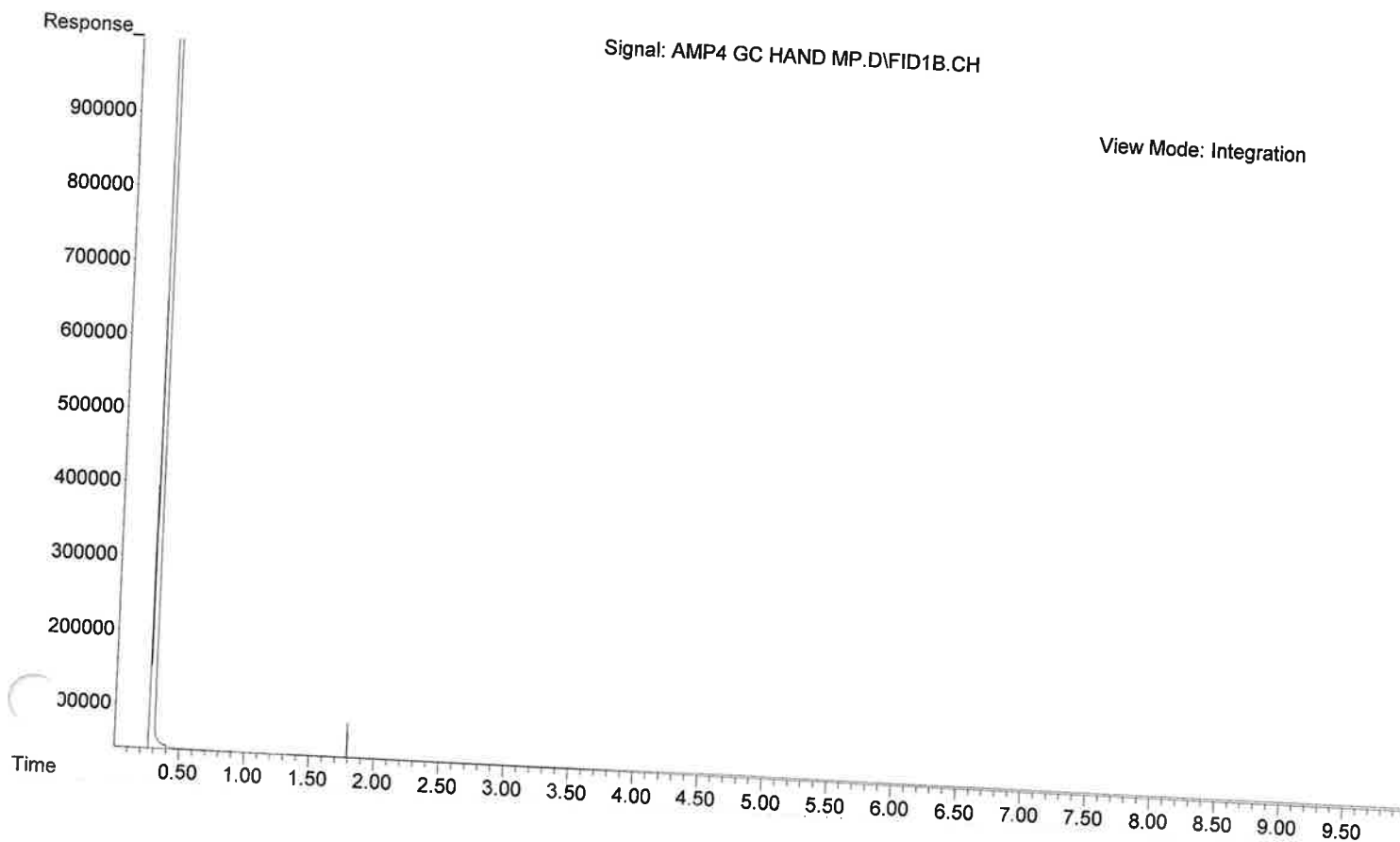
Signal: AMP4 GC HAND MP.D\FID1B.CH

View Mode: Integration



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP4 GC HAND MP.D
Operator :
Acquired : 26-Jun-17, 10:33:31 using AcqMethod GC100.M
Instrument : Graceland
Sample Name: METHOD BLANK
Mi fo :
Vial Number: 1

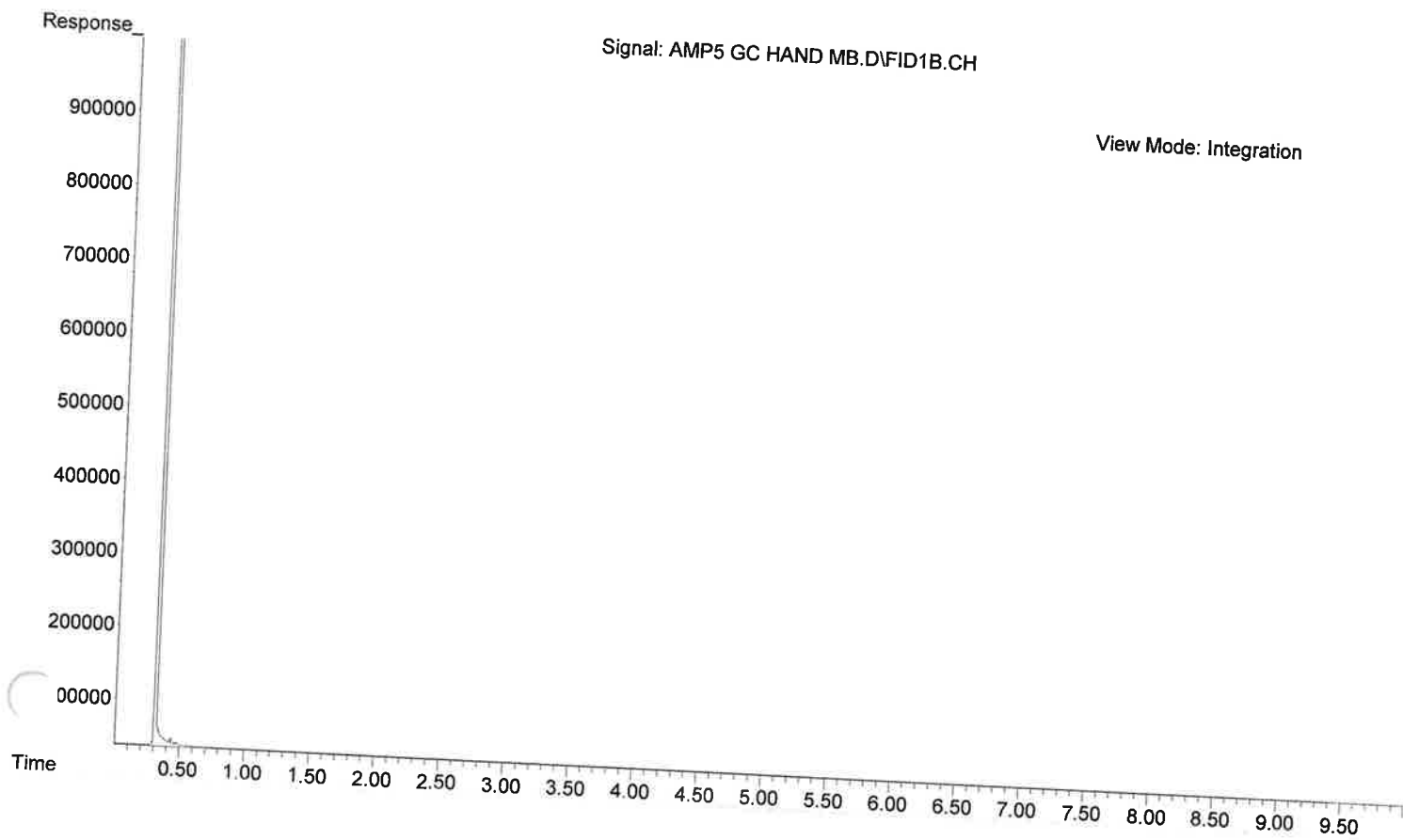
Enc



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\AMP5 GC HAND MB.D
Operator :
Acquired : 26-Jun-17, 12:10:07 using AcqMethod GC150ISO.M
Instrument : Graceland
Sample Name: METHOD BLANK
Mi fo :
Vial Number: 1

WBS

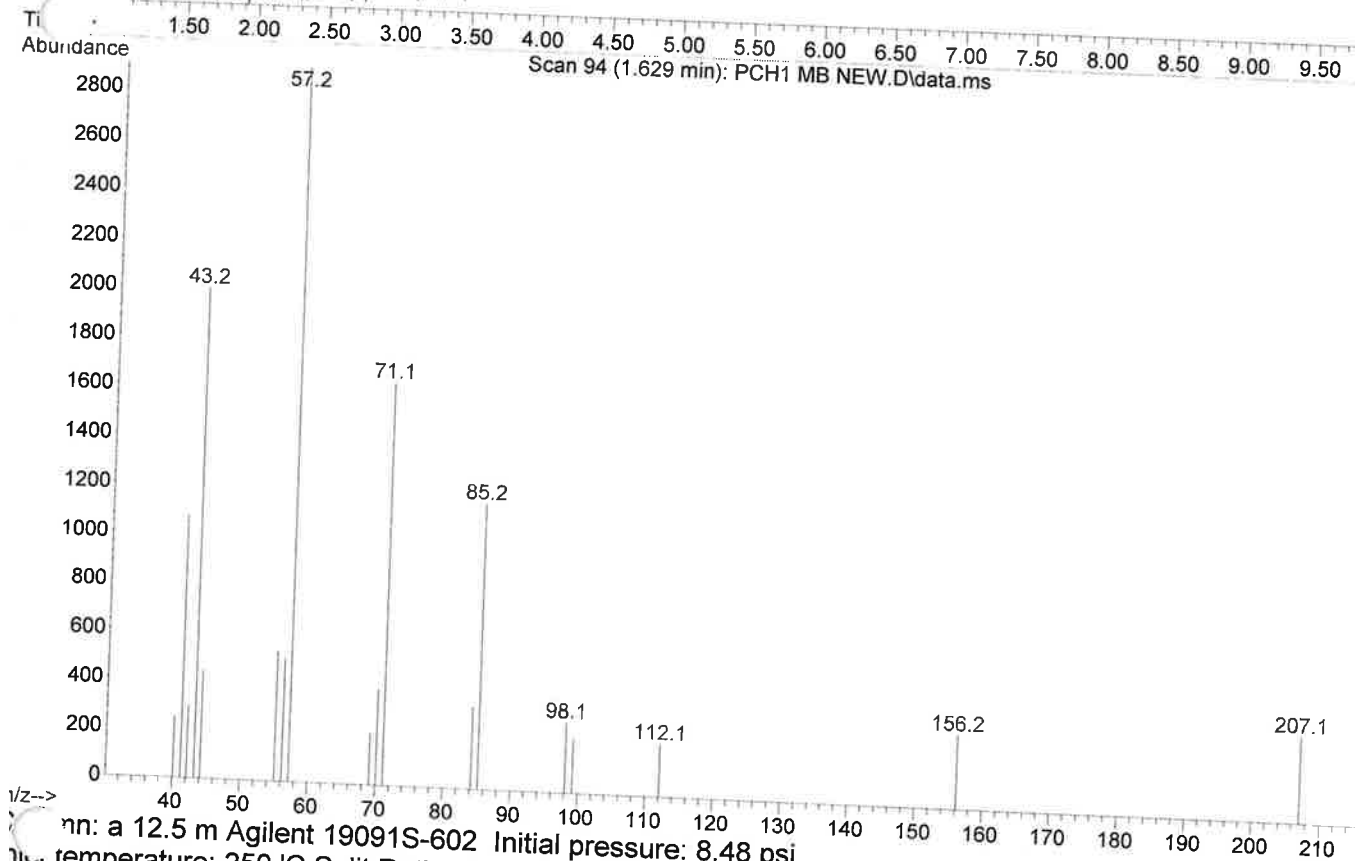
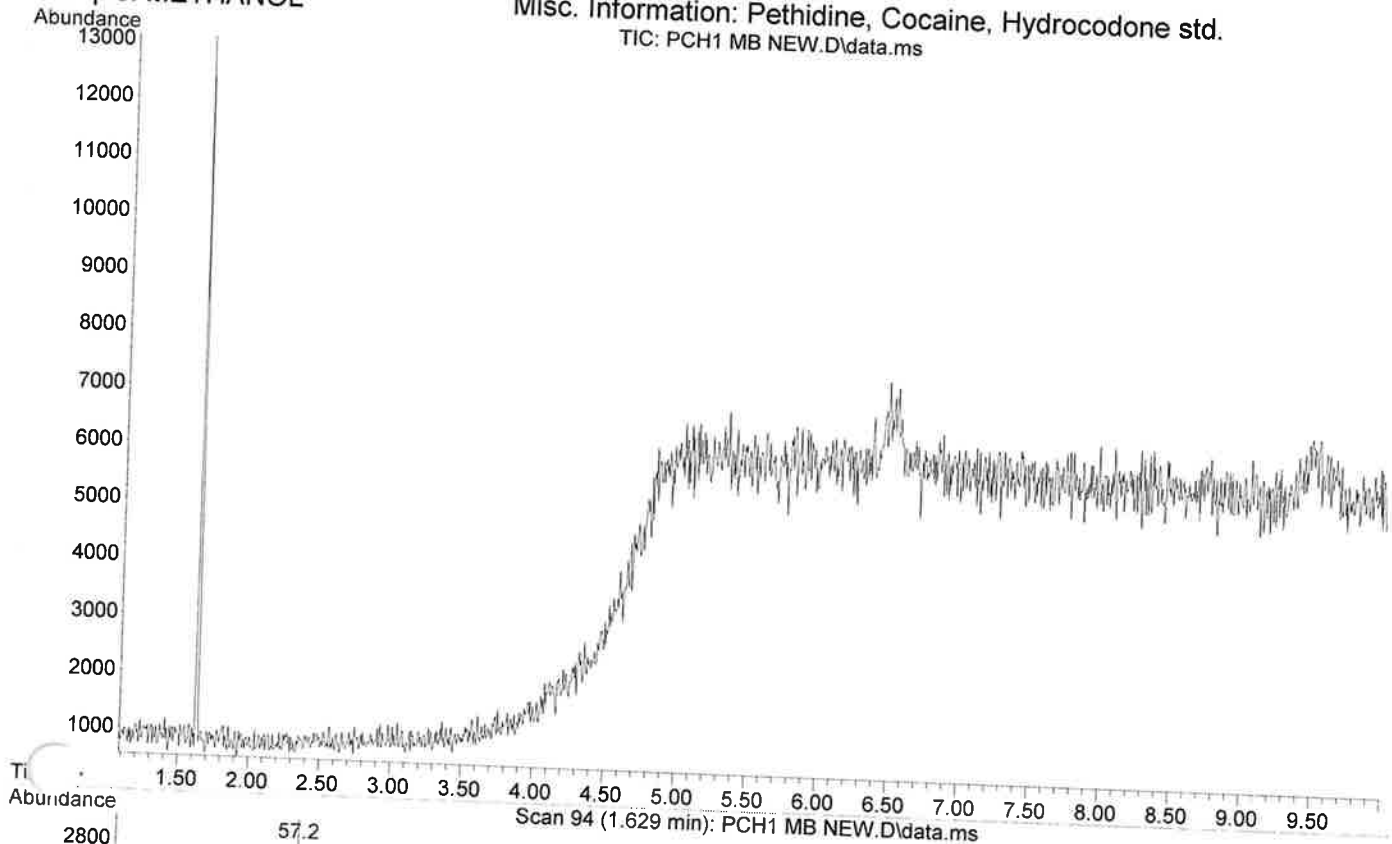
Emc



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH1 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 10:16
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS100.M
Sample: METHANOL

Emc

Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH1 MB NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH2 MB NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

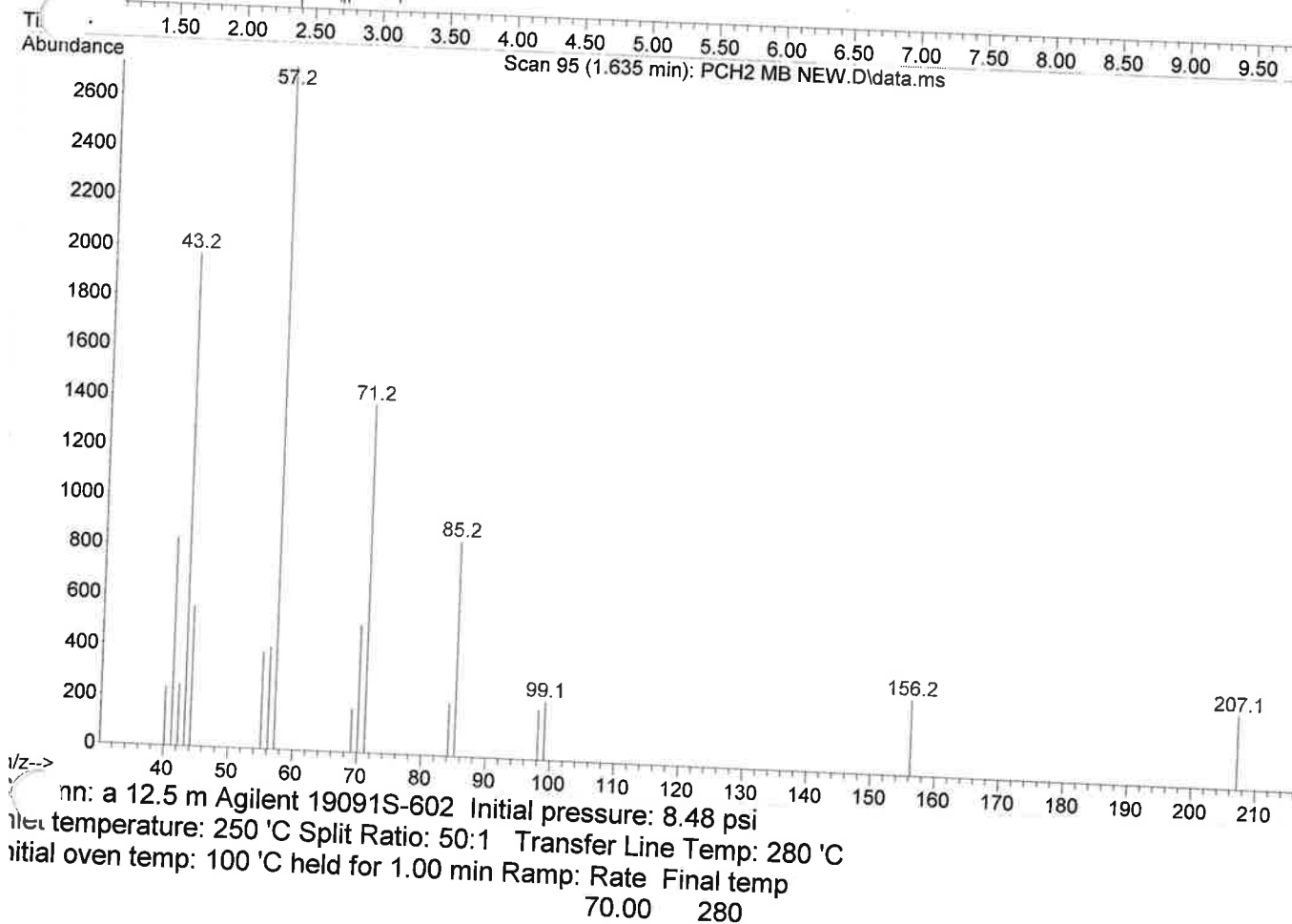
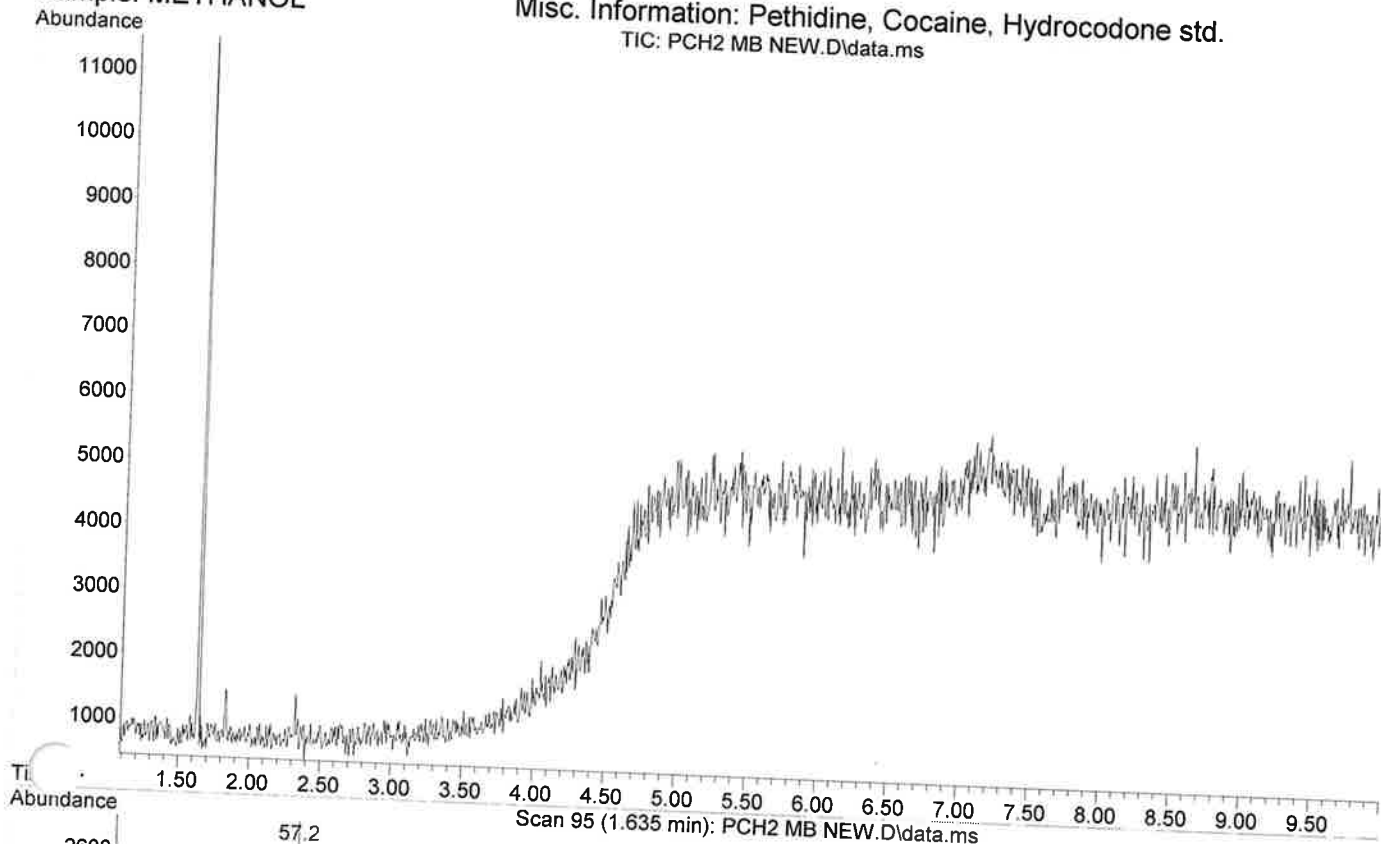
Operator: WILLIAM STANTON on 16 Jun 2017 10:45

Method: C:\MSDCHEM\1\METHODS\ASMS\DRUGS100.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH2 MB NEW.D\data.ms

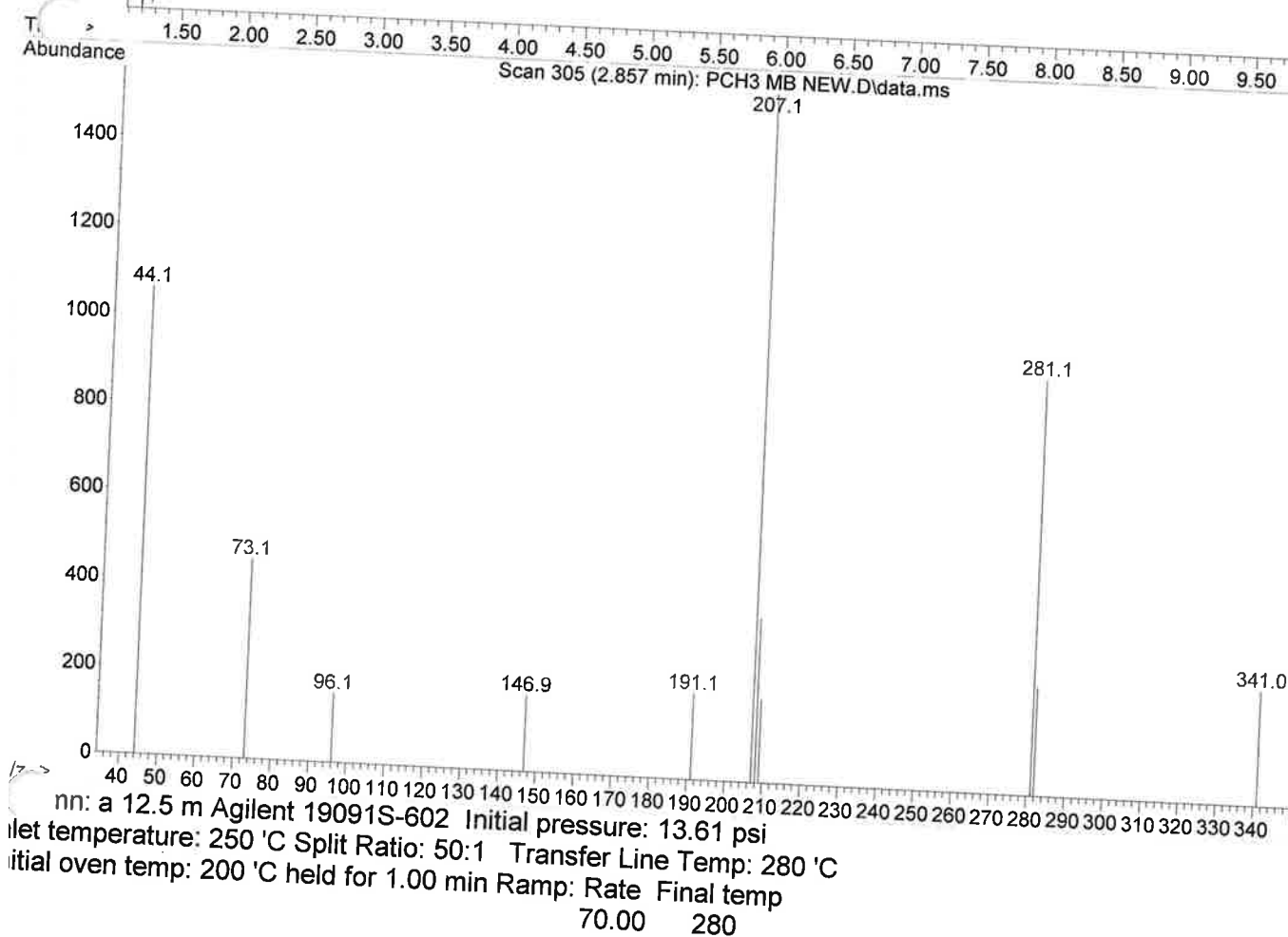
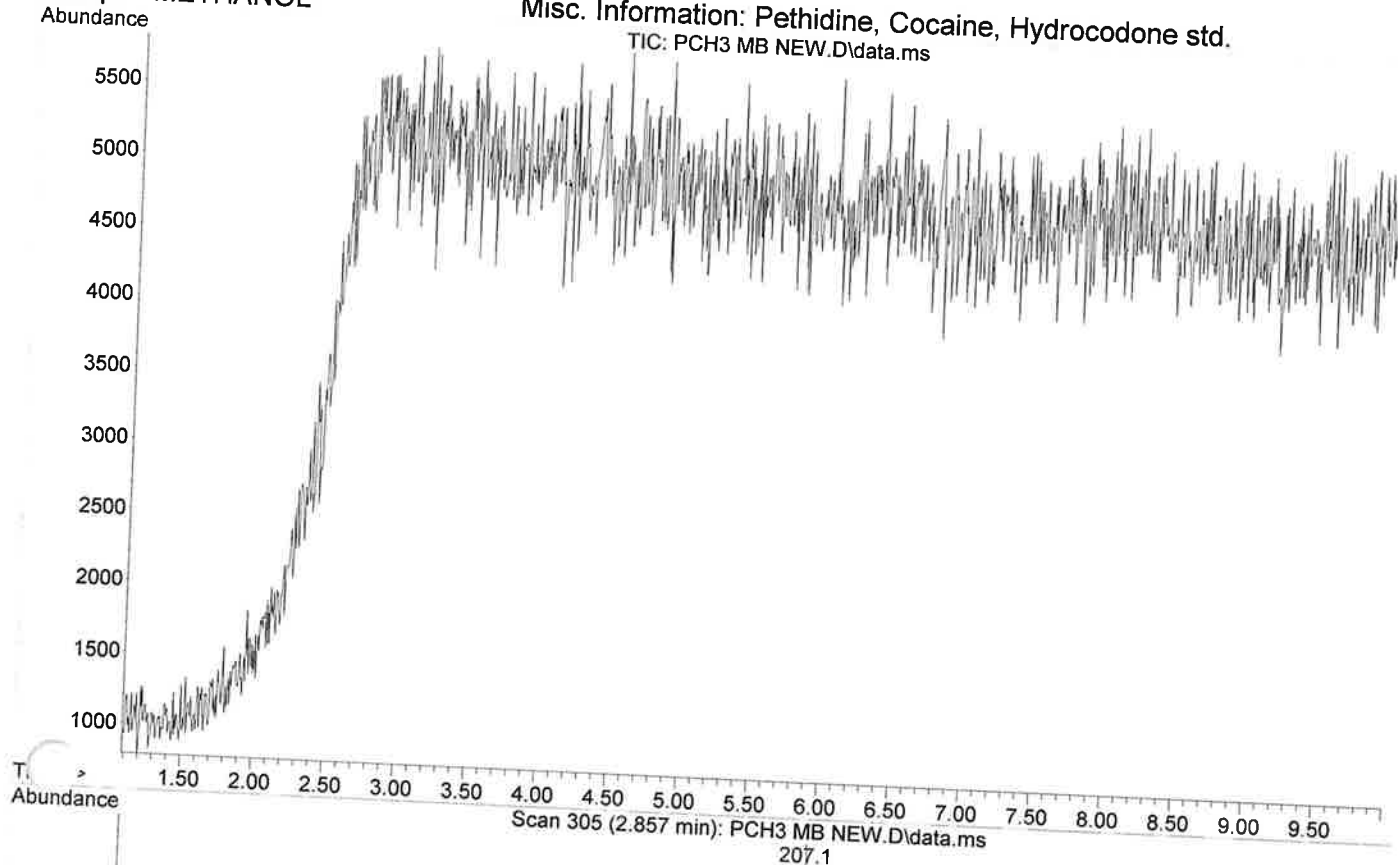


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.48 psi
Oven temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 100 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH3 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 11:13
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M
Sample: METHANOL

Gmc

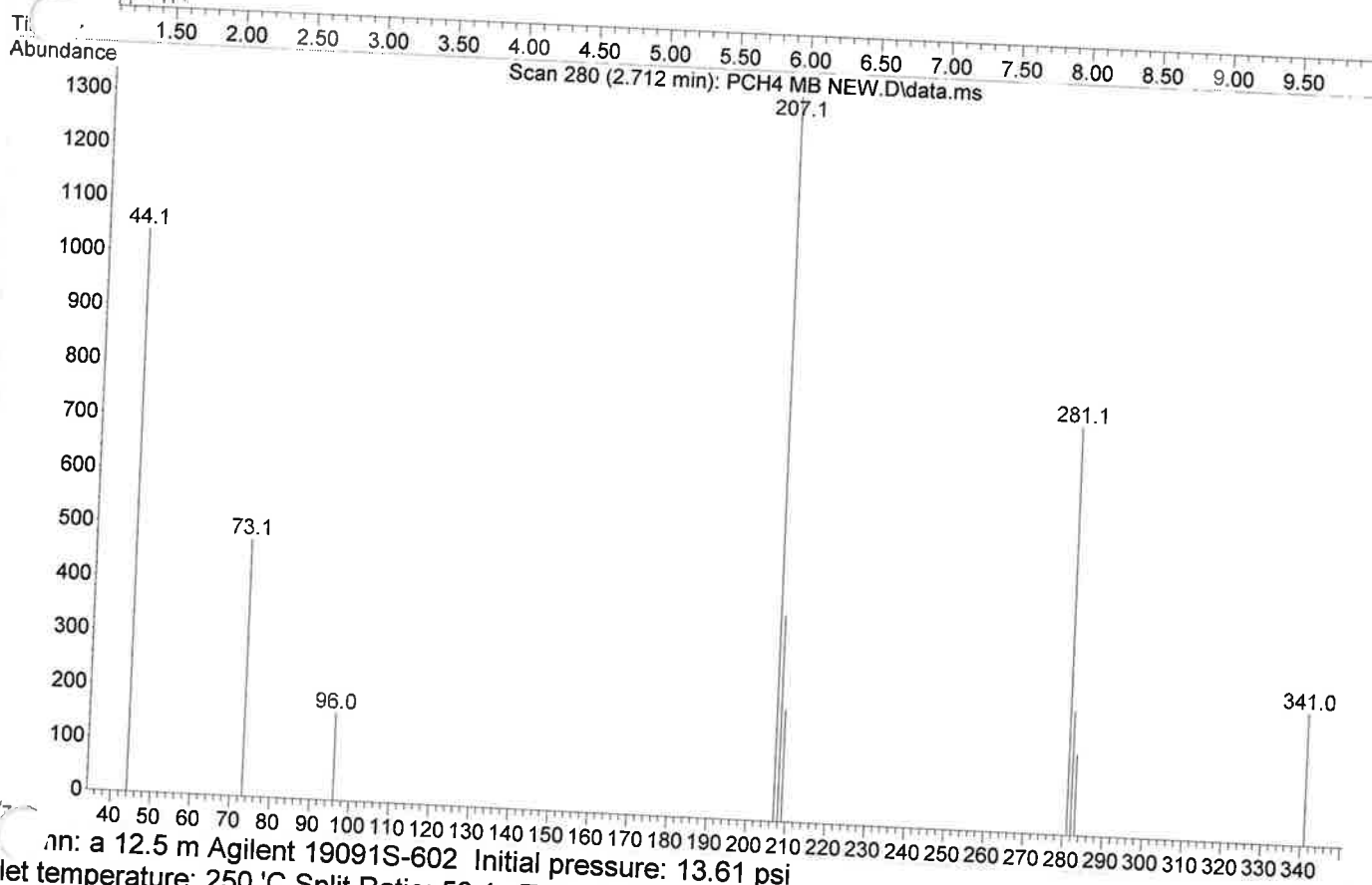
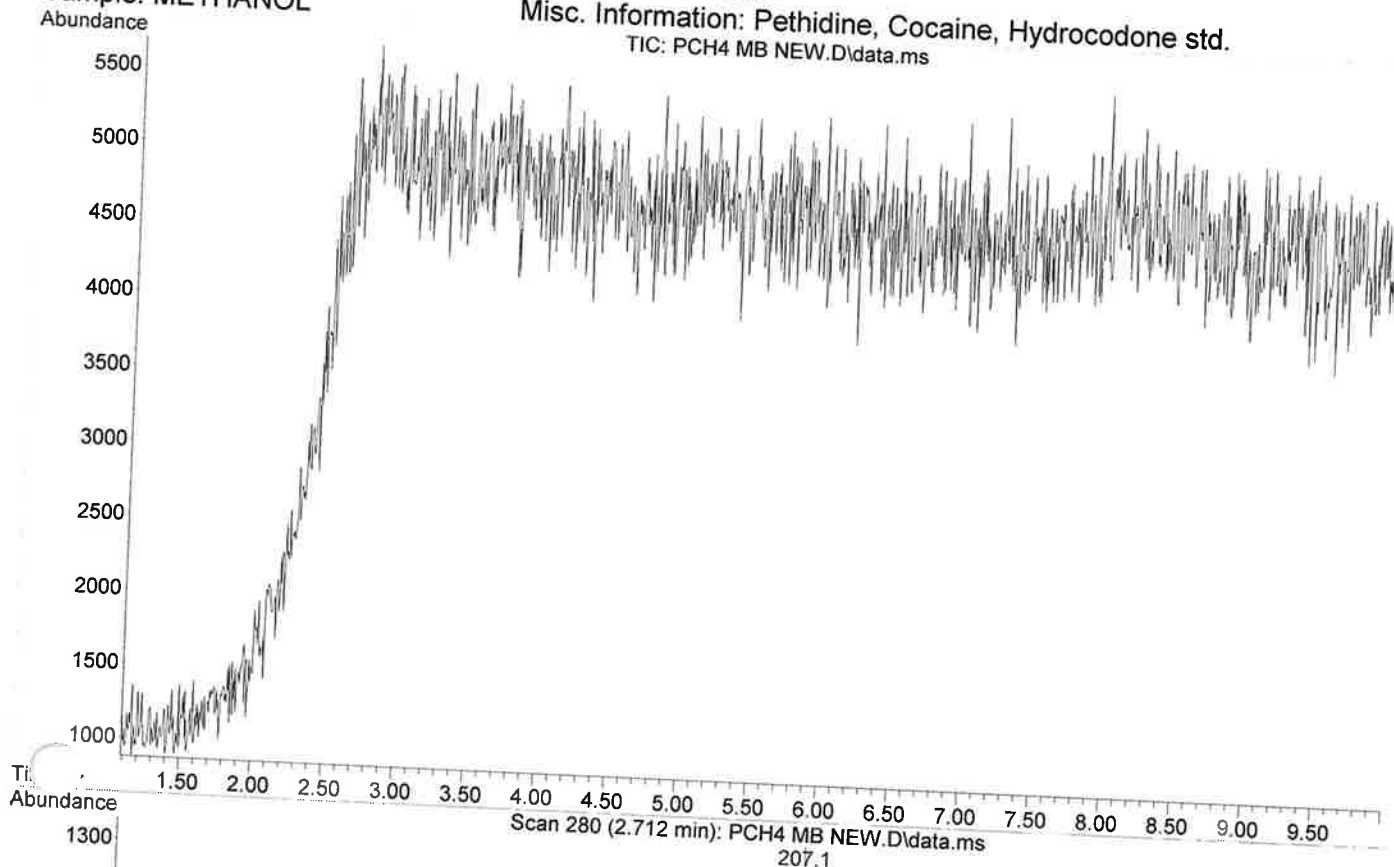
Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH3 MB NEW.D\data.ms



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH4 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 11:41
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS200.M
Sample: METHANOL

enc

Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH4 MB NEW.D\data.ms

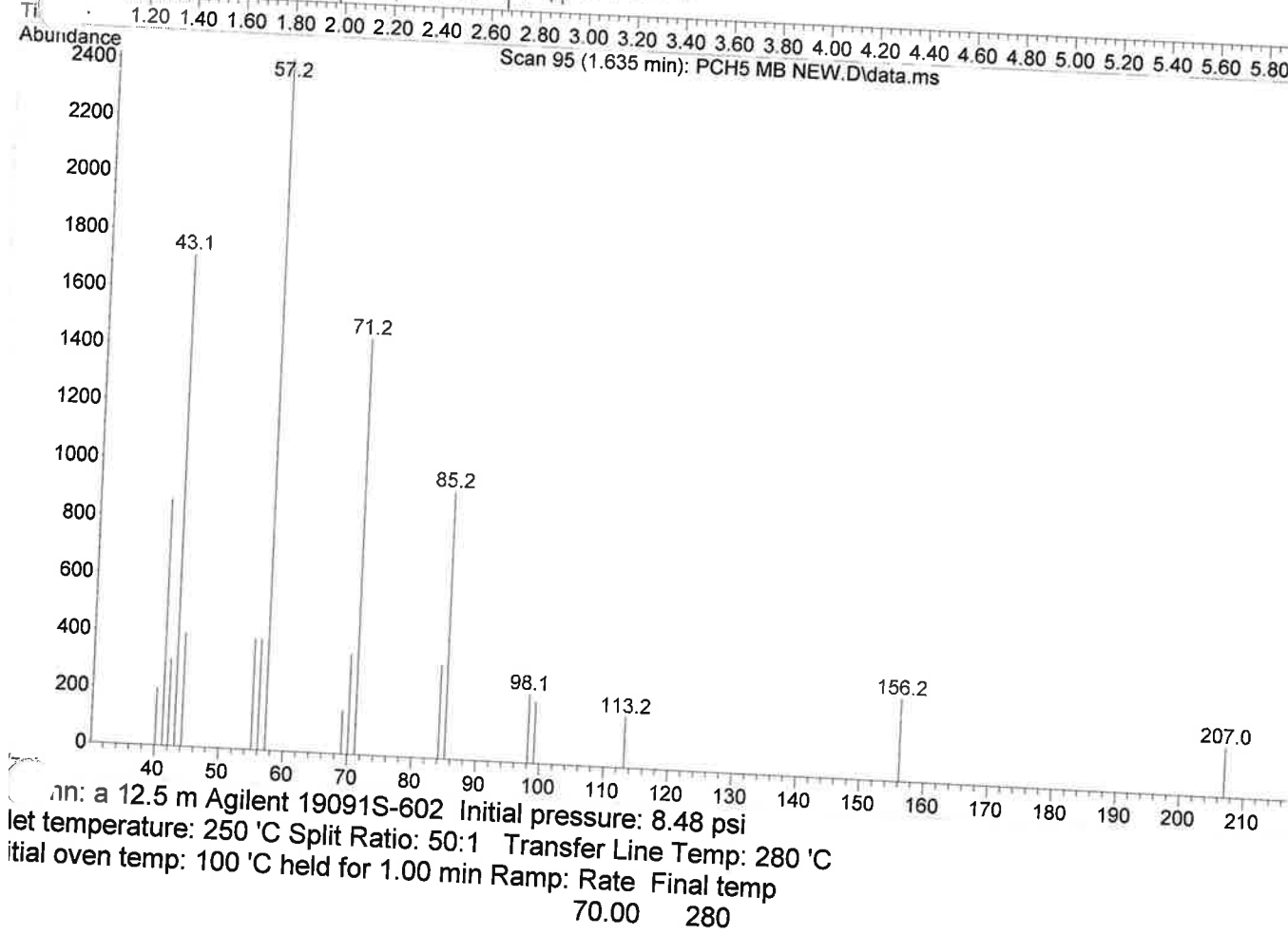
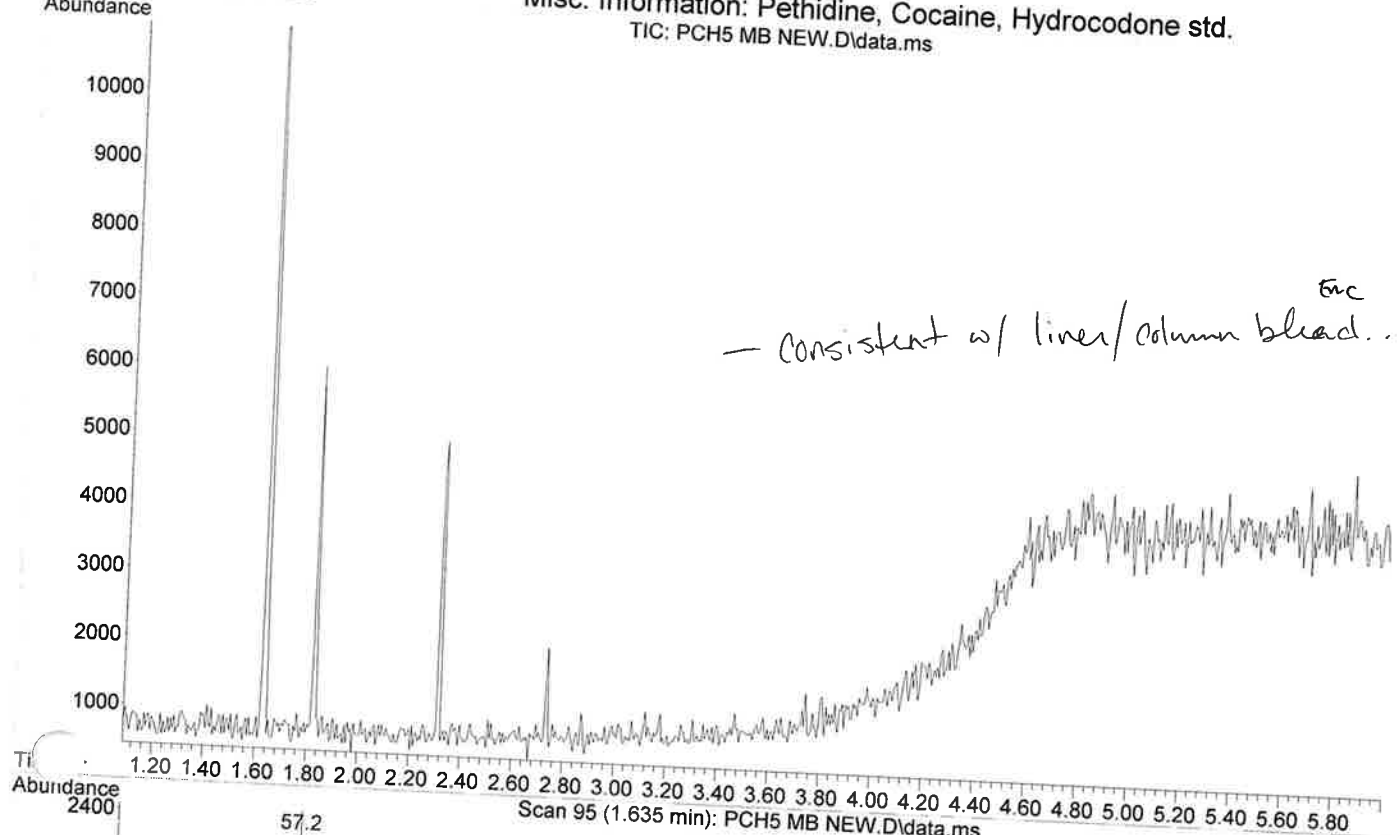


Column: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH5 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 12:10
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M
Sample: METHANOL

One

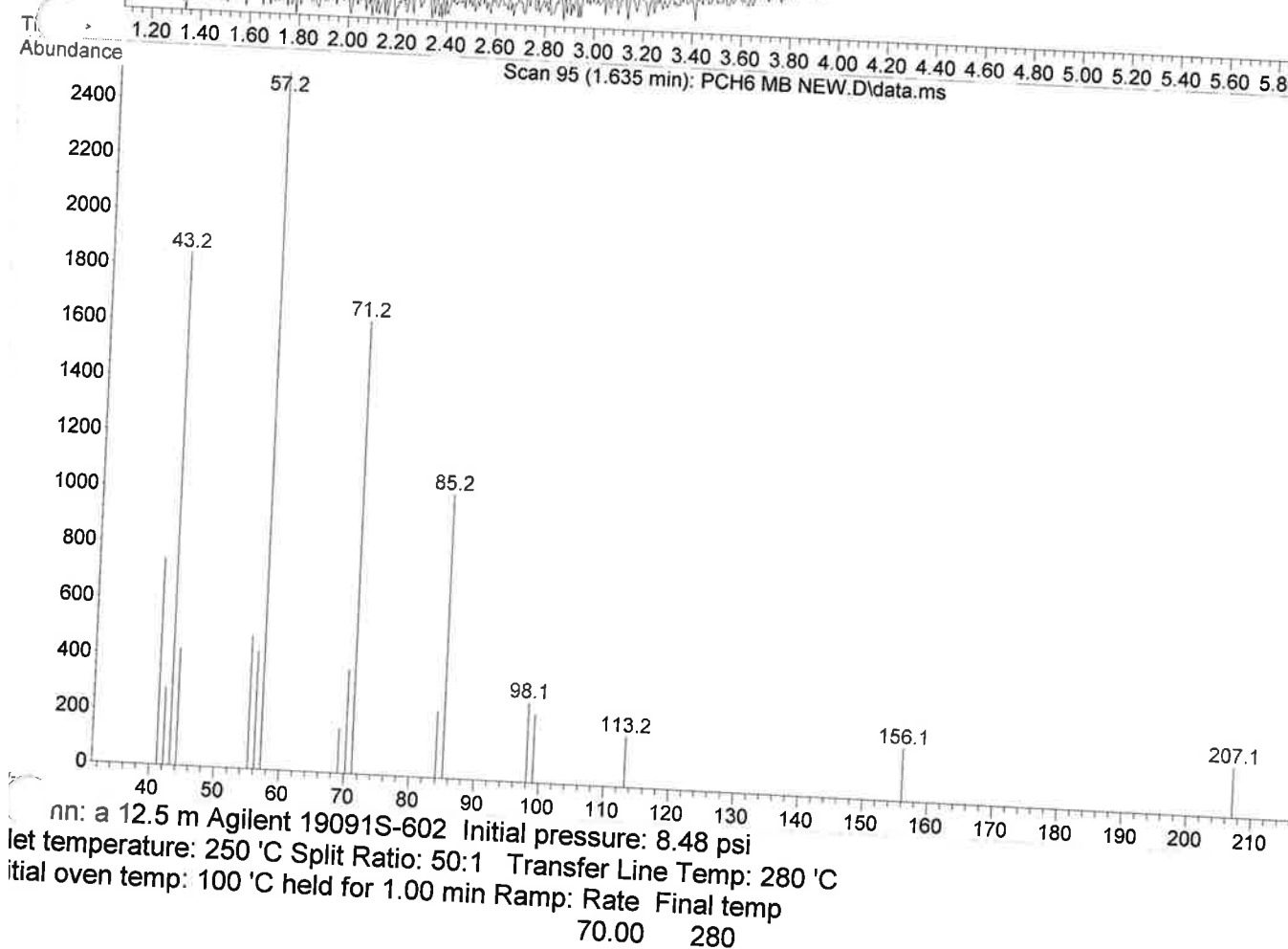
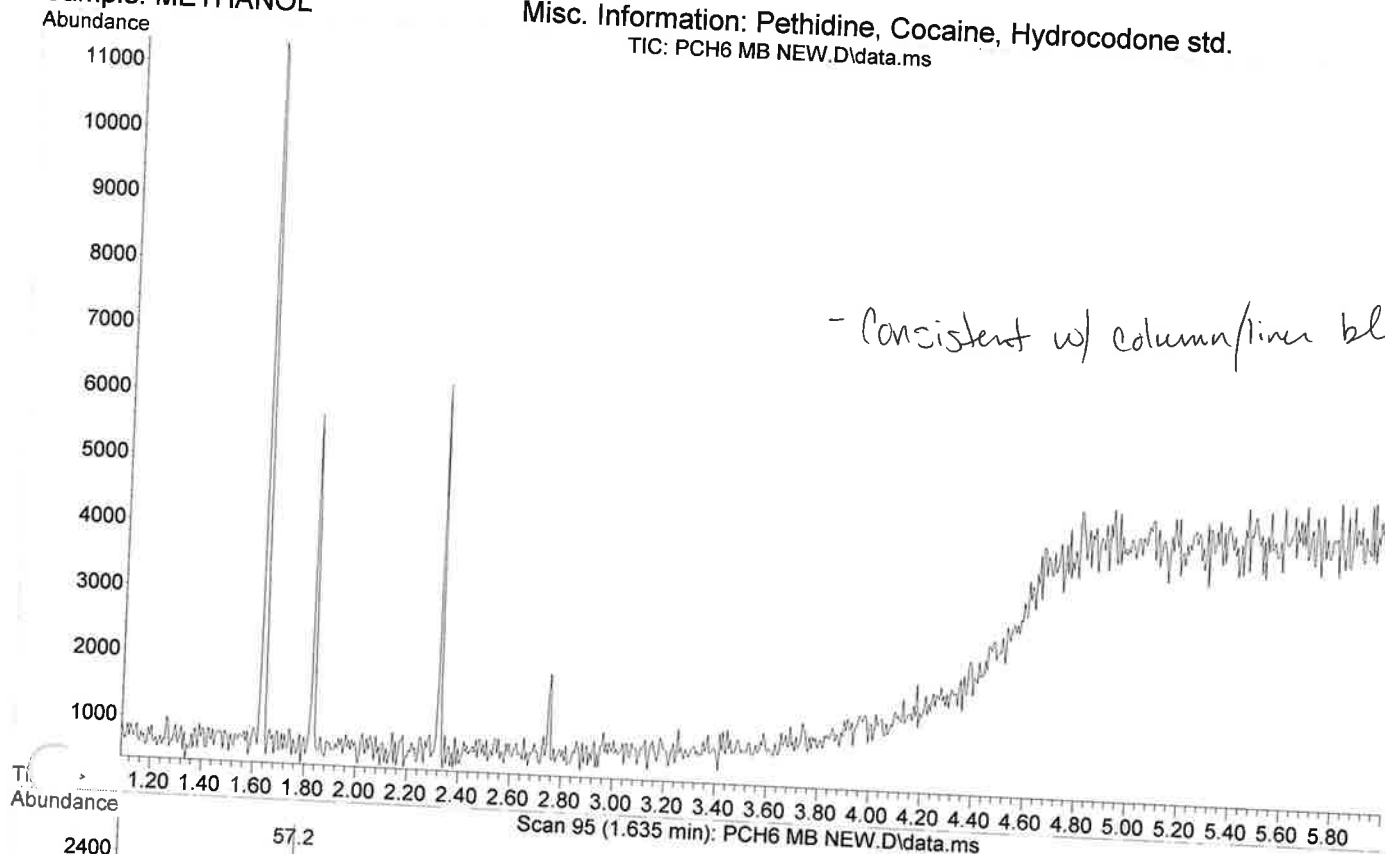
Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH5 MB NEW.D\data.ms



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH6 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 16 Jun 2017 12:30
Method: C:\MSDCHEM\1\METHODS\ASMS100TR.M
Sample: METHANOL

Eme

Misc. Information: Pethidine, Cocaine, Hydrocodone std.
TIC: PCH6 MB NEW.D\data.ms



Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH7 MB NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

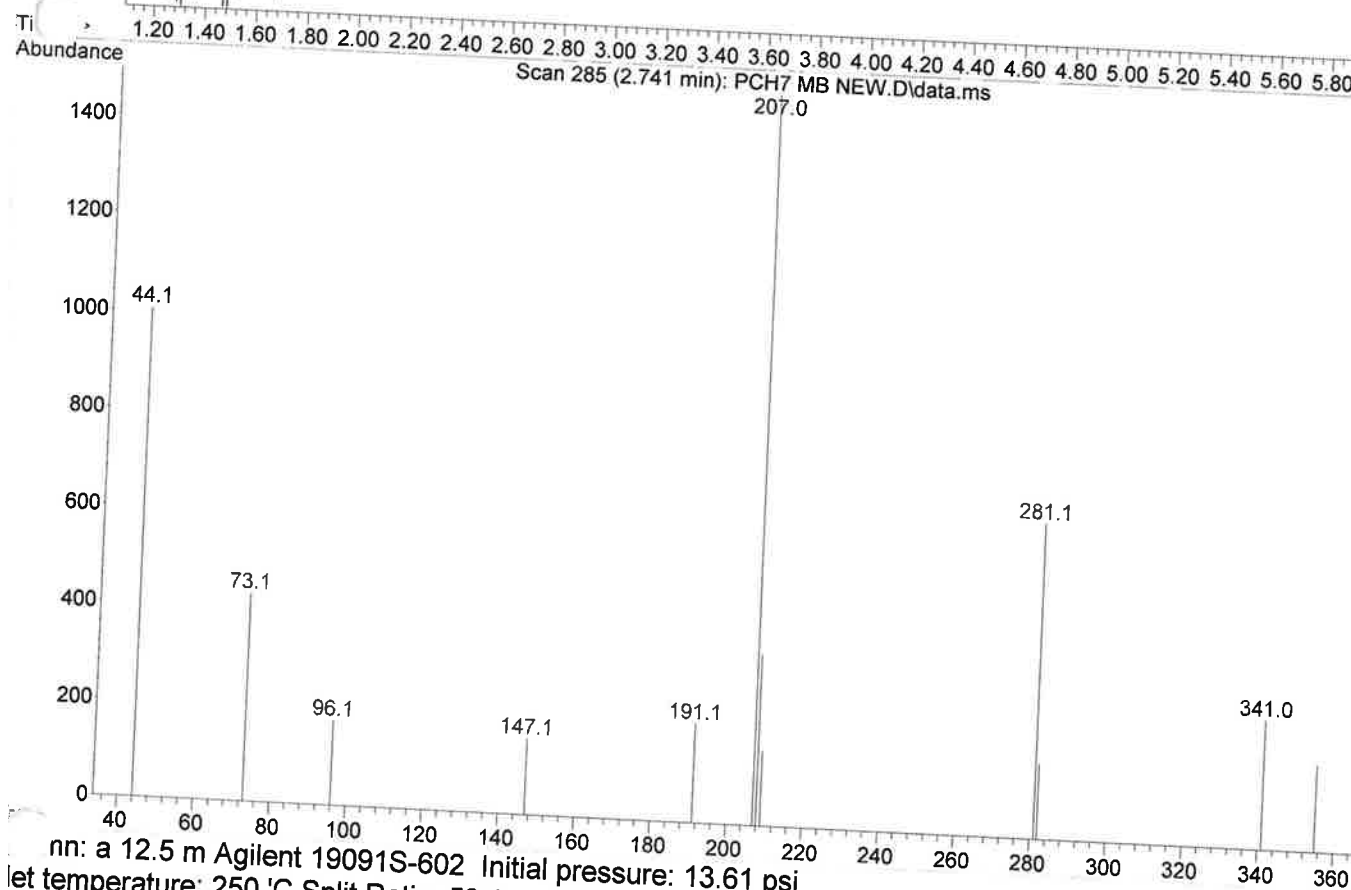
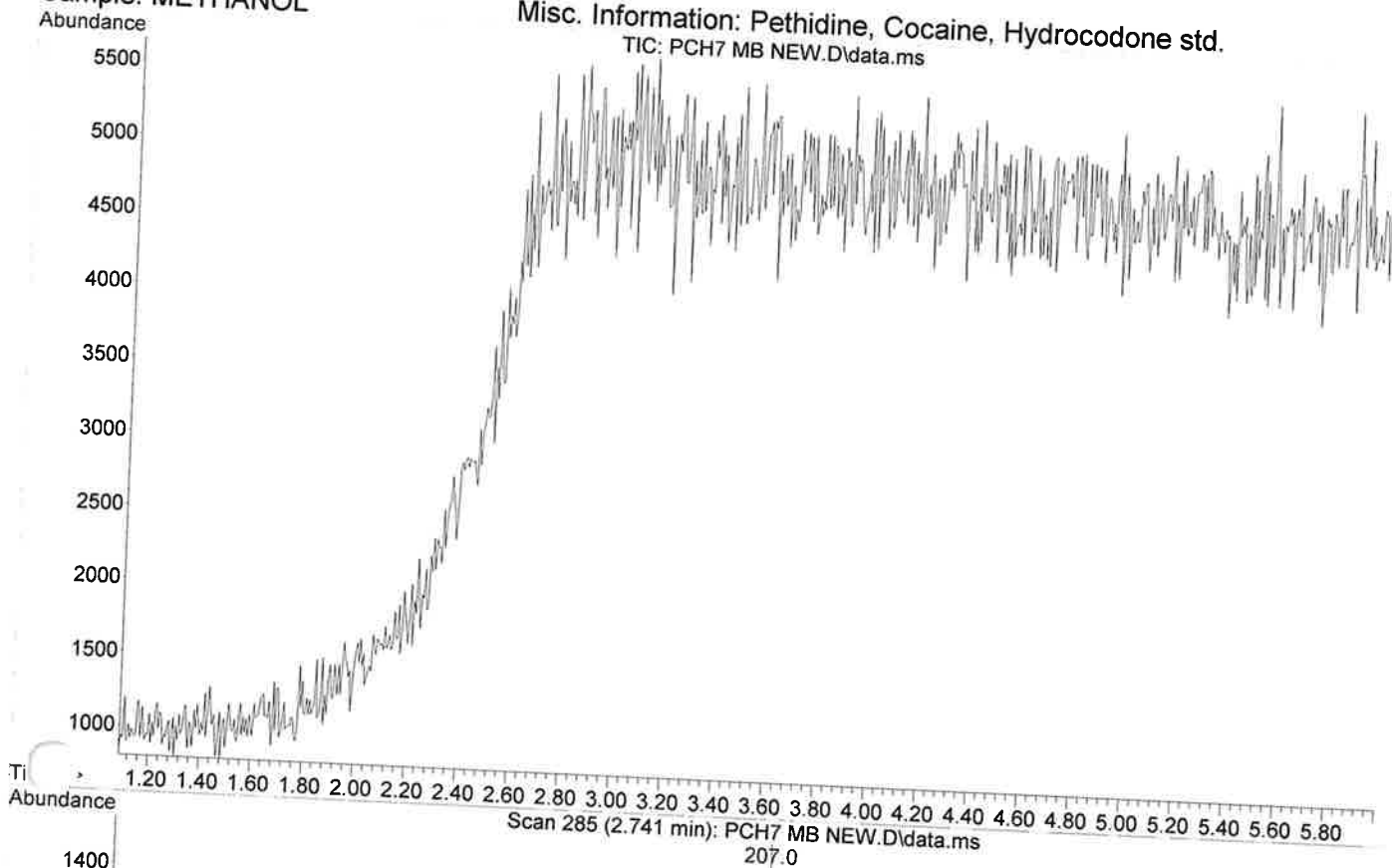
Operator: WILLIAM STANTON on 16 Jun 2017 12:50

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH7 MB NEW.D\data.ms



Column: 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Let temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH8 MB NEW.D

Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

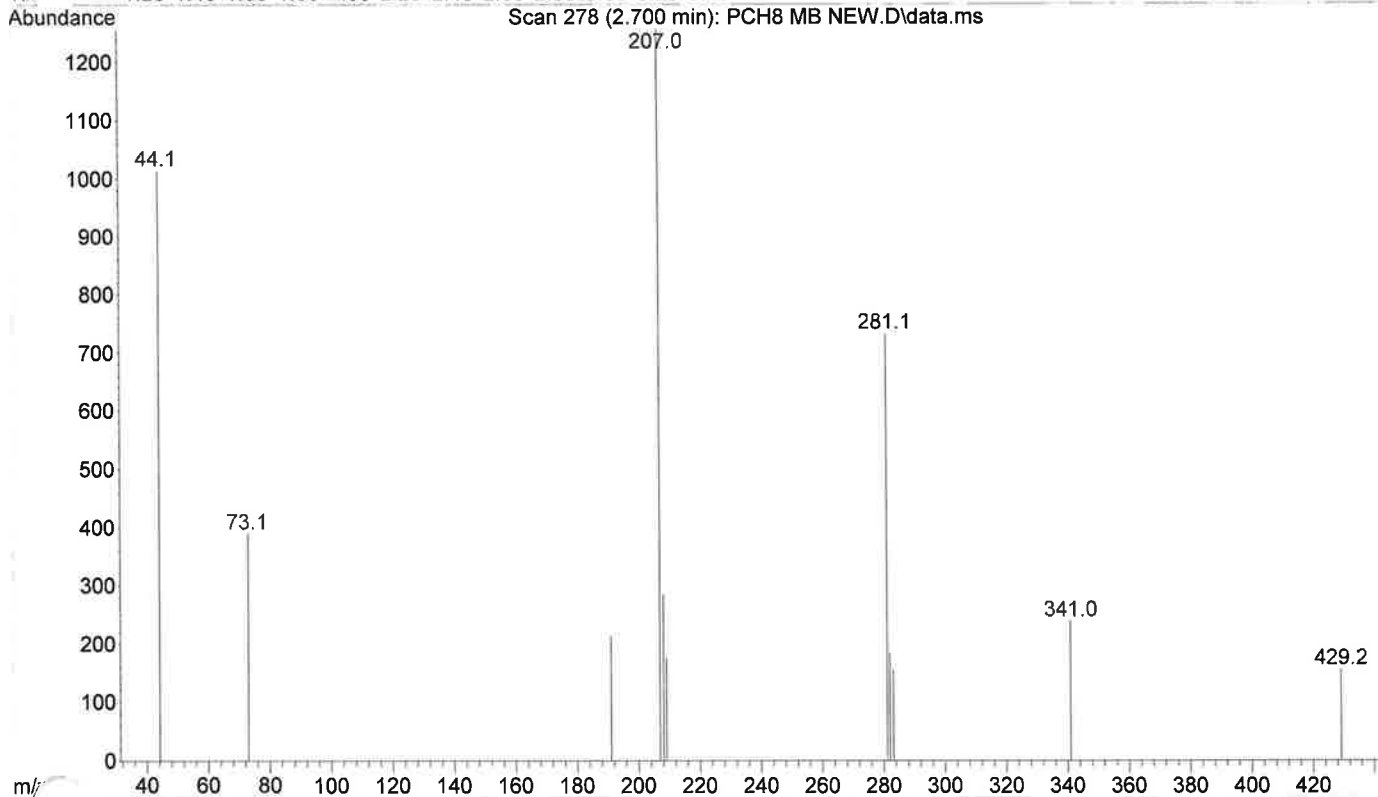
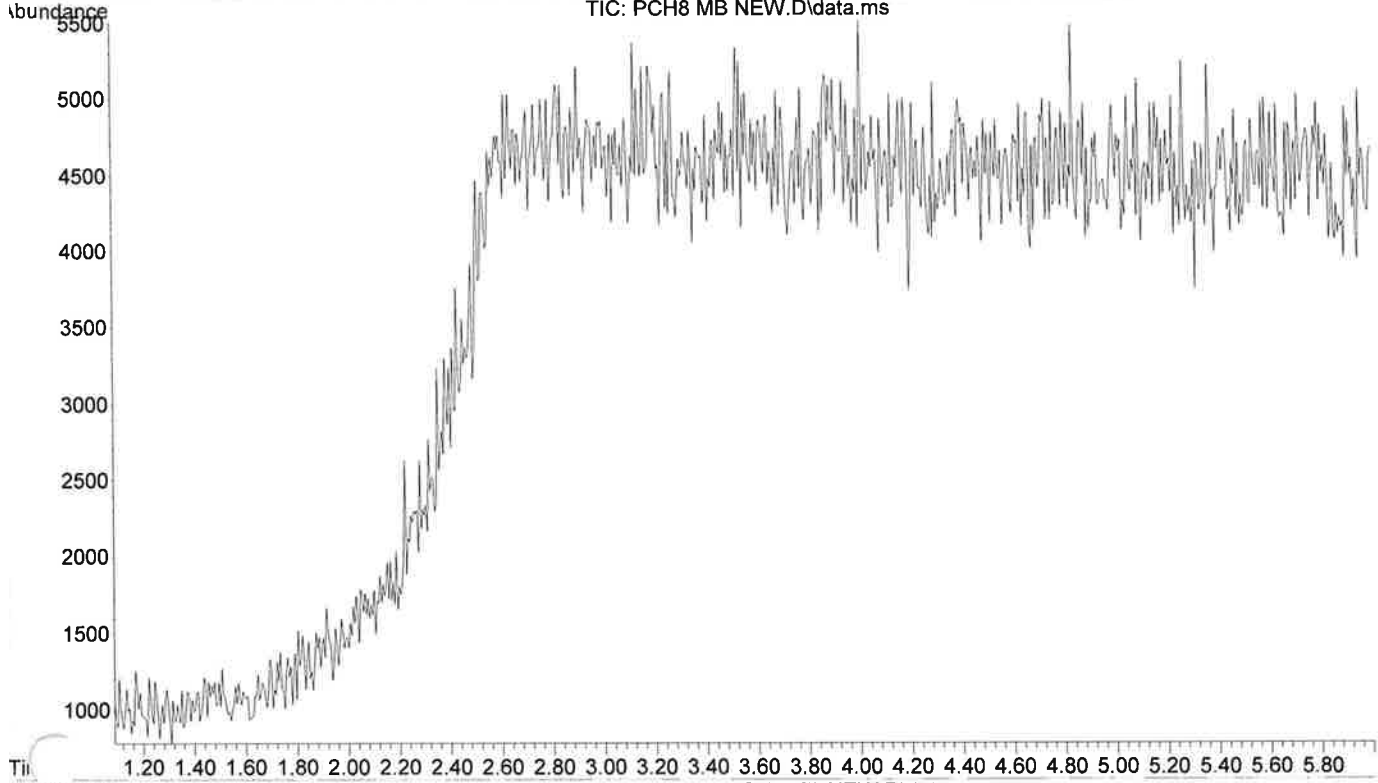
Operator: WILLIAM STANTON on 16 Jun 2017 13:10

Method: C:\MSDCHEM\1\METHODS\ASMS200TR.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

TIC: PCH8 MB NEW.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp

70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\PCH NEW 6-16-2017\PCH9 MB NEW.D

Run on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

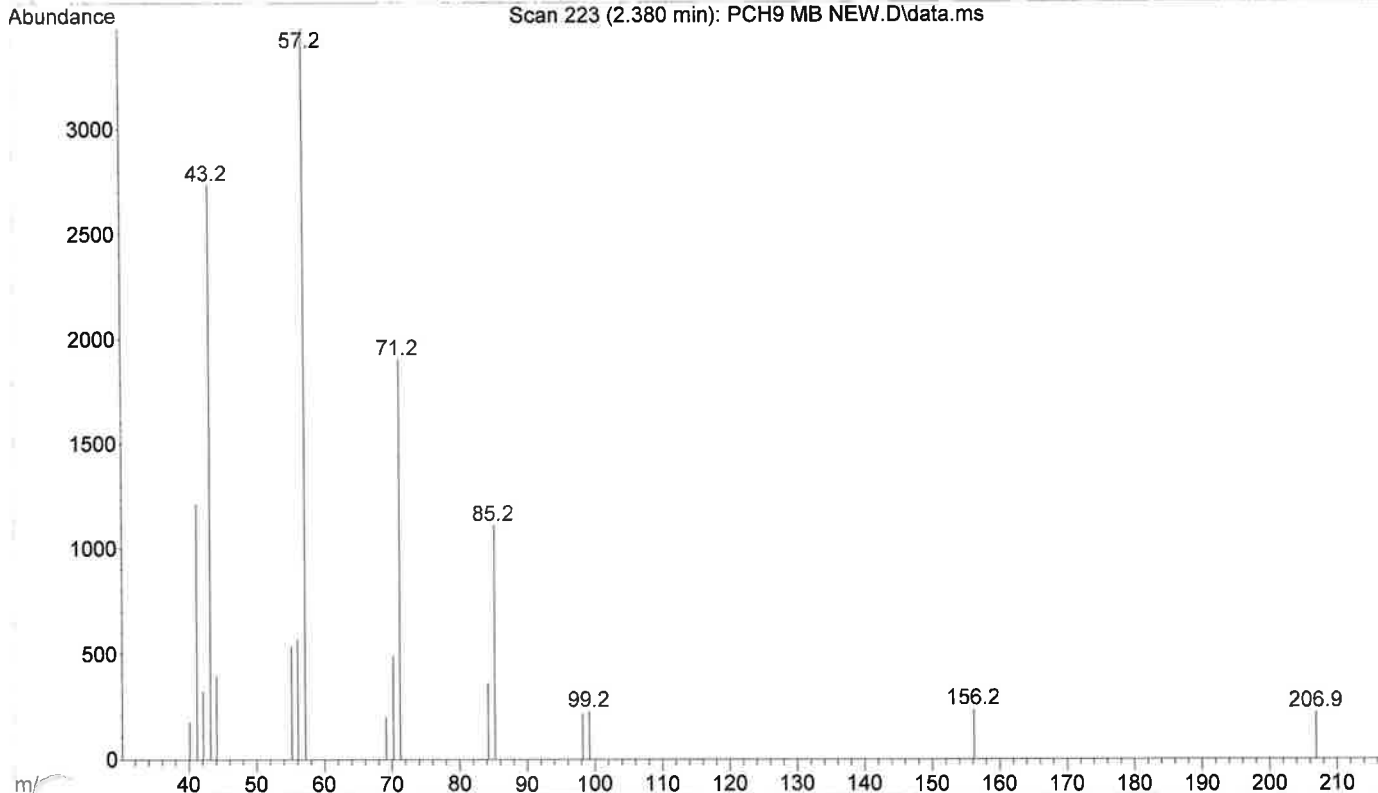
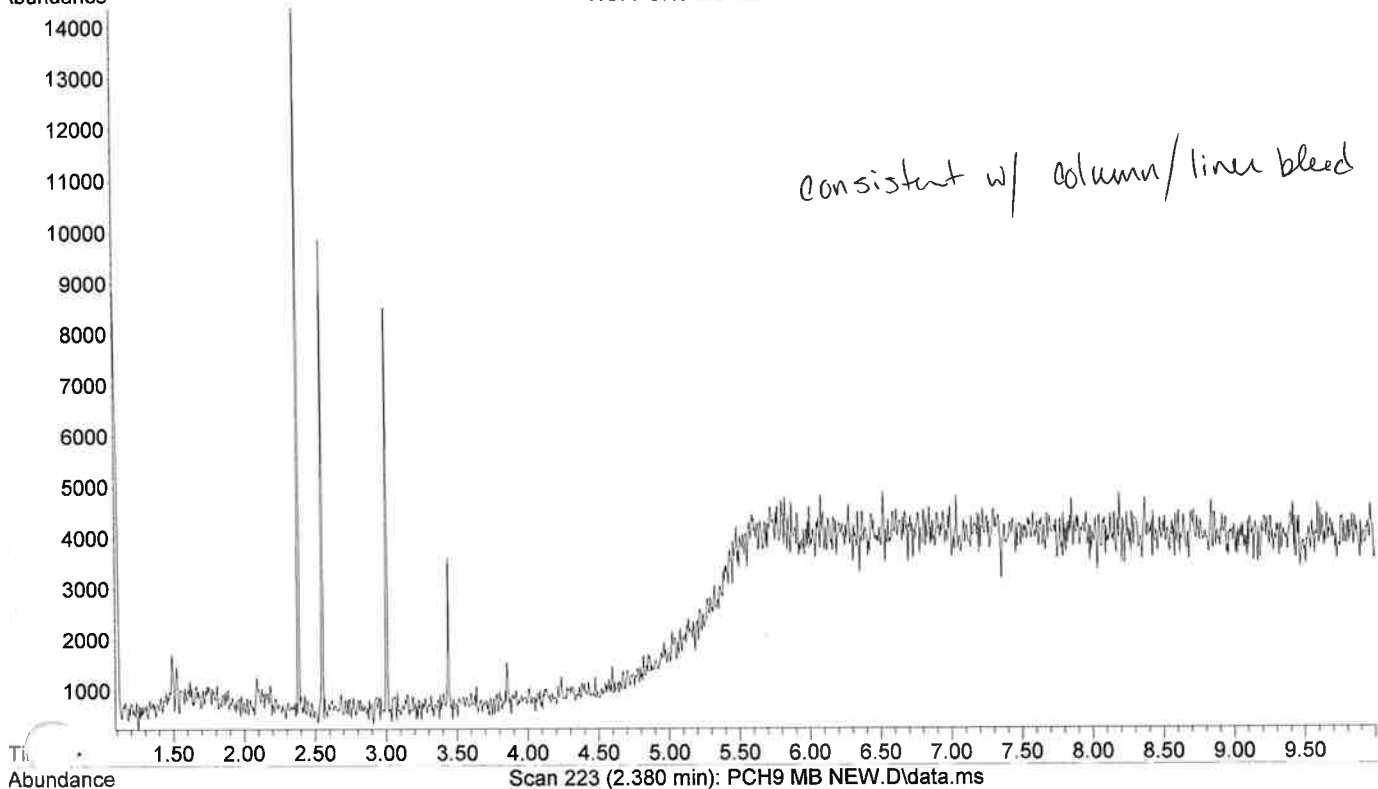
Operator: WILLIAM STANTON on 16 Jun 2017 13:33

Method: C:\MSDCHEM\1\METHODS\ASMSDRUGS60.M

Sample: METHANOL

Misc. Information: Pethidine, Cocaine, Hydrocodone std.

Abundance TIC: PCH9 MB NEW.D\data.ms



Column: a 12.5 m Agilent 19091S-602 Initial pressure: 6.36 psi

Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C

Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp

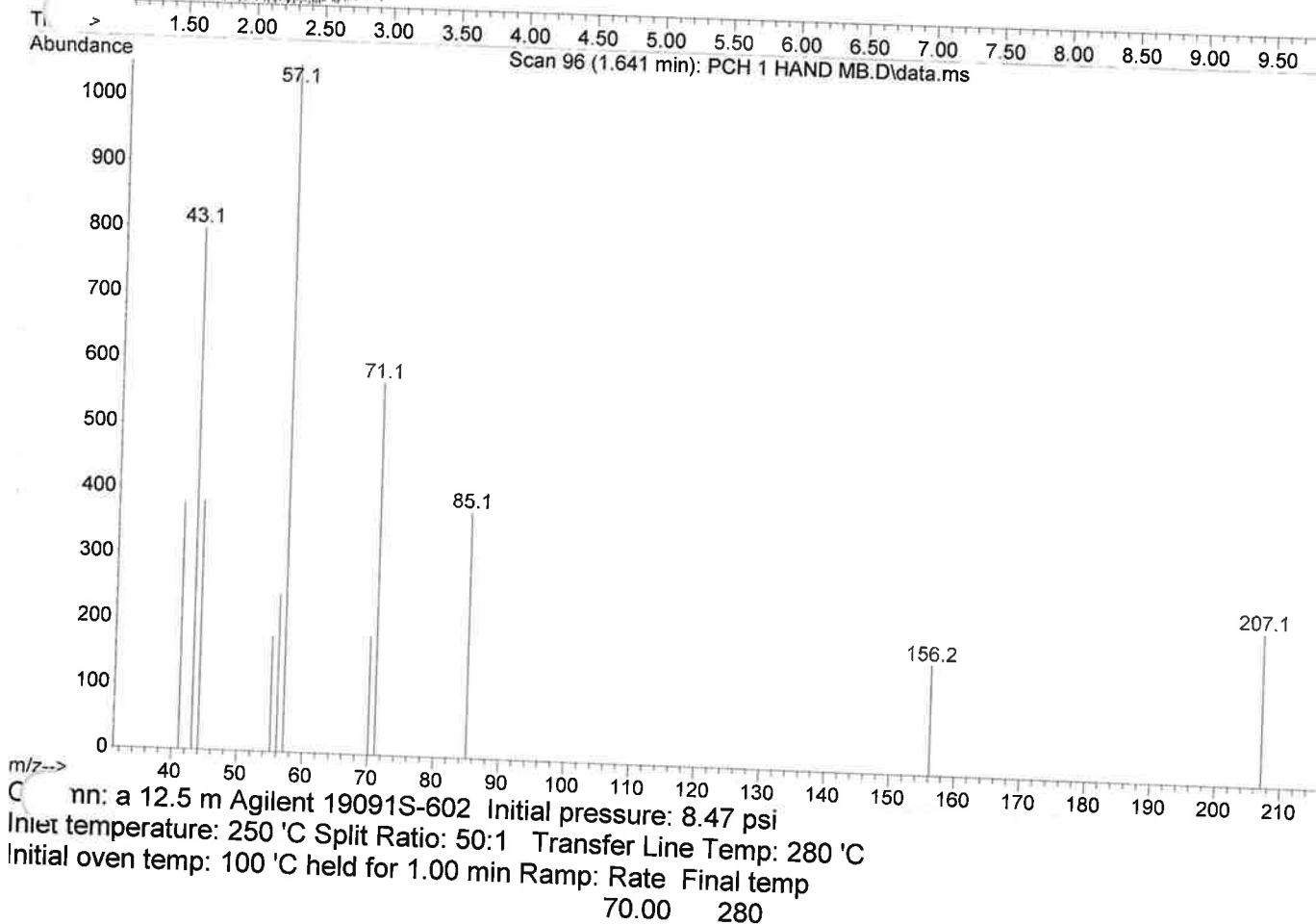
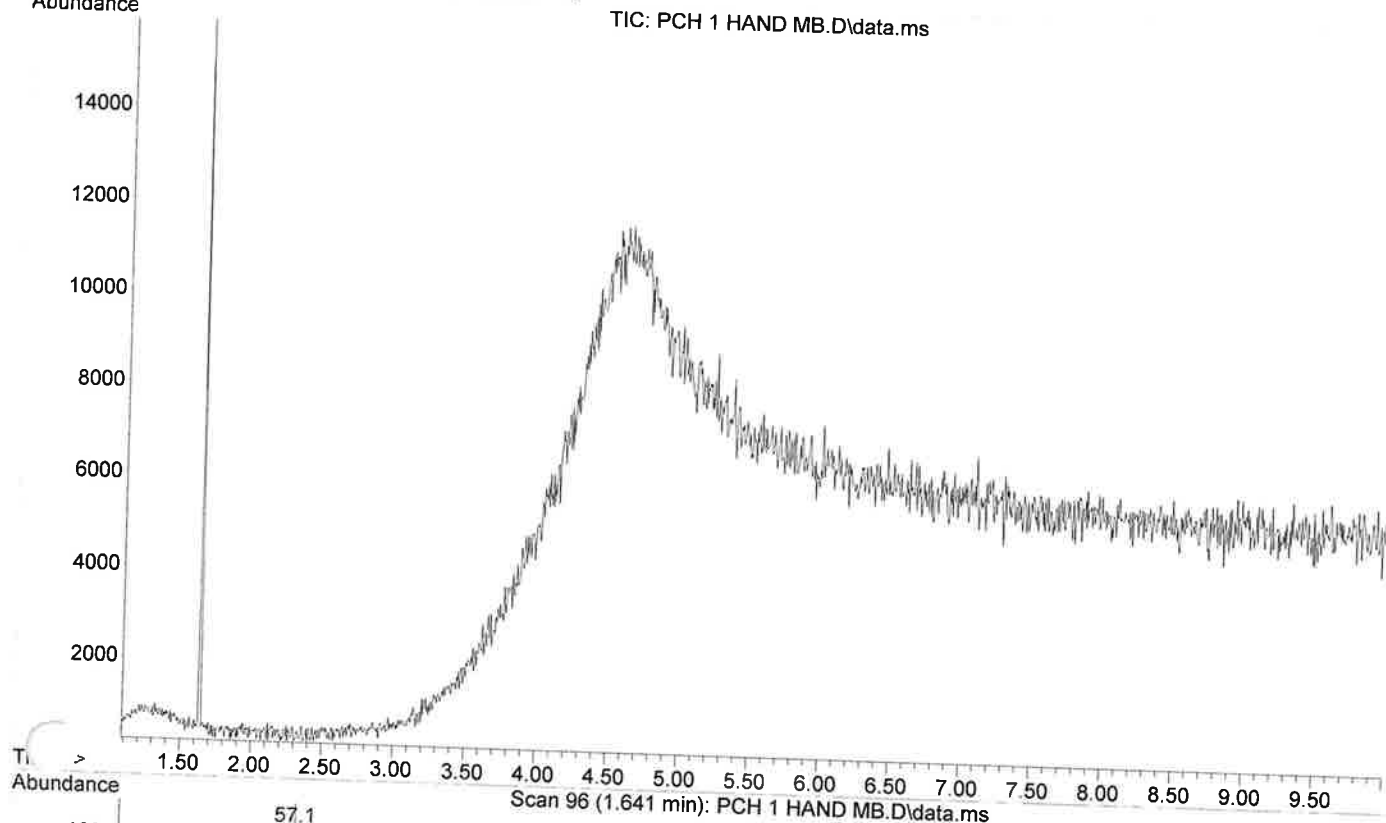
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 1 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 8:56
Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

fine

Sample: Misc. Information:

TIC: PCH 1 HAND MB.D\data.ms



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 2 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 9:22

Eme

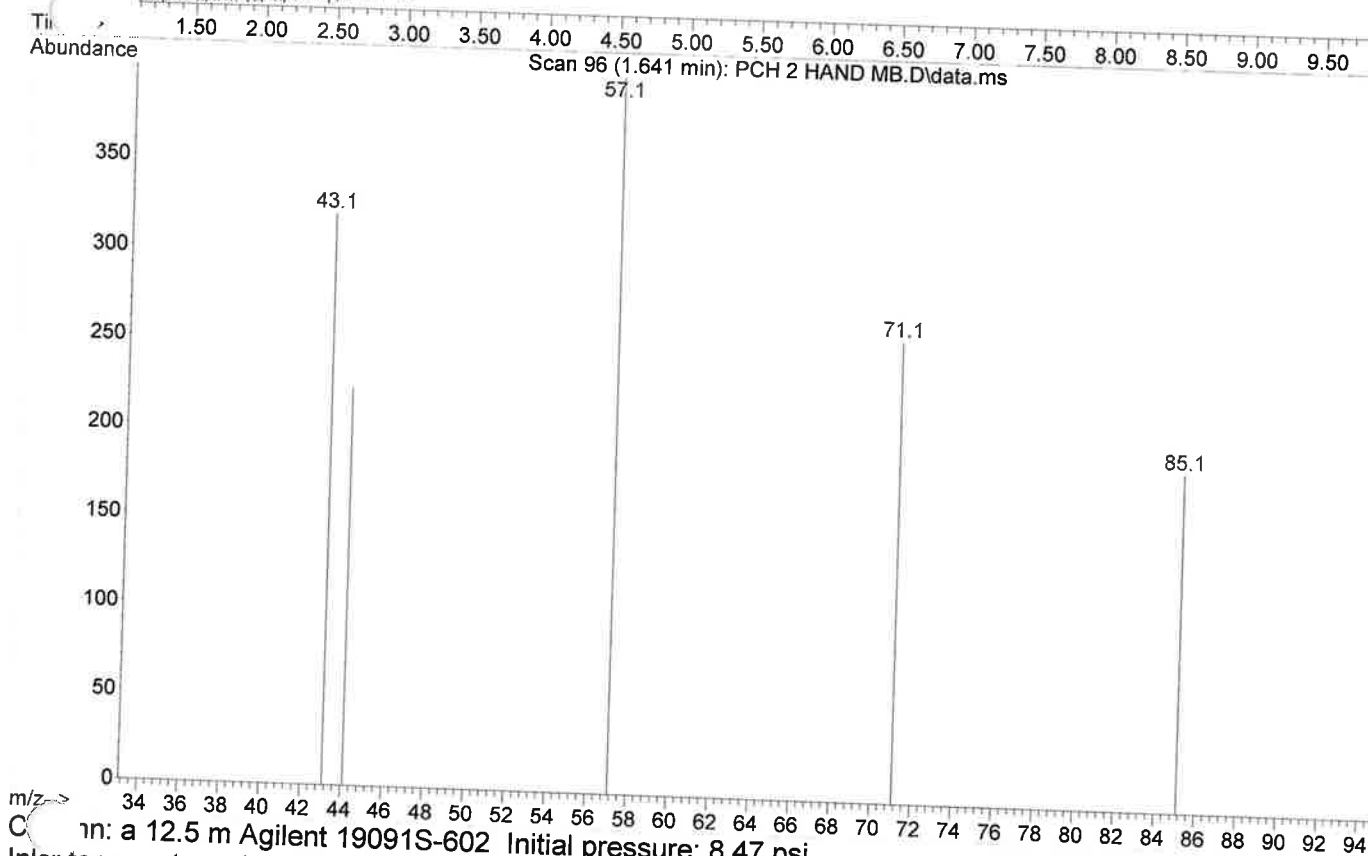
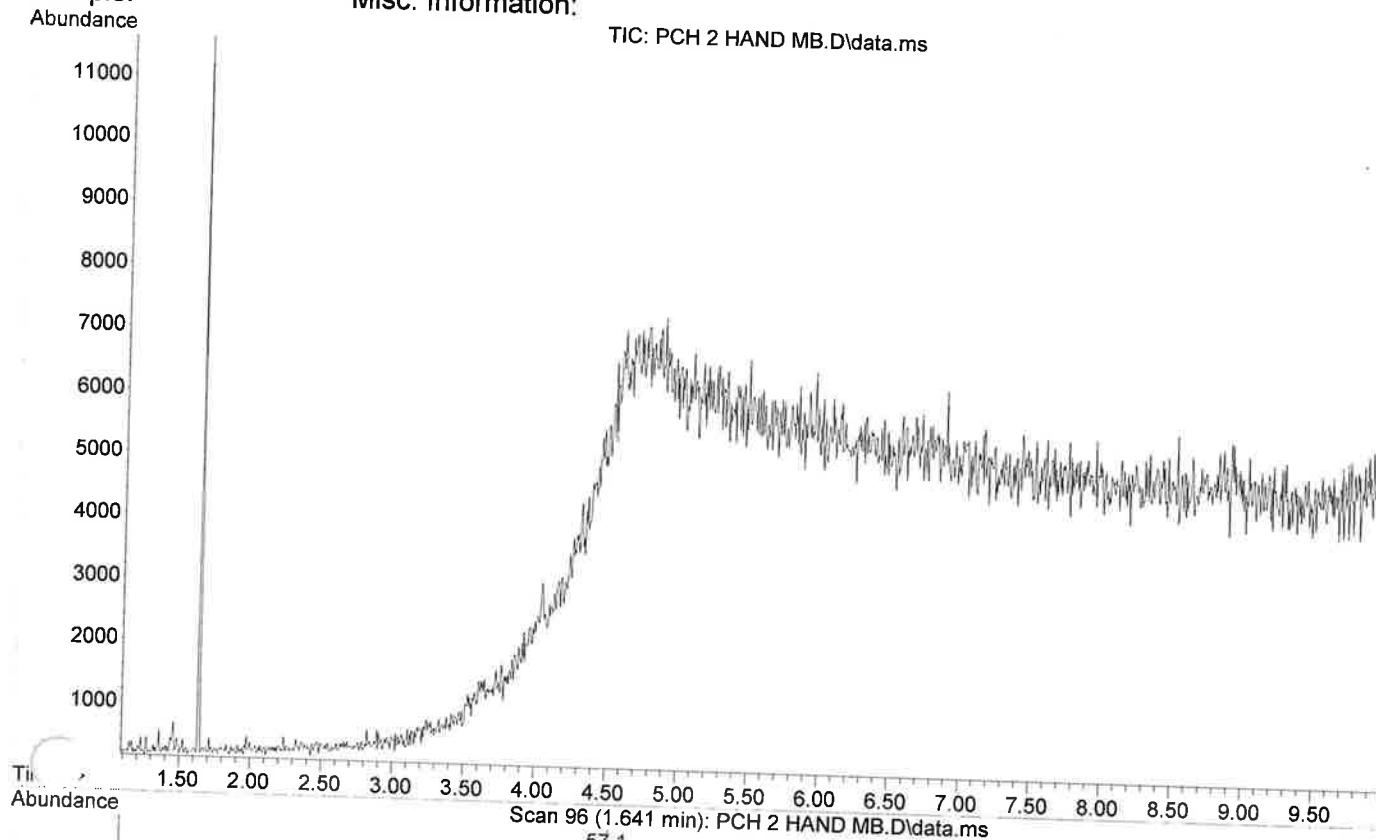
PSB

Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

Sample:

Misc. Information:

TIC: PCH 2 HAND MB.D\data.ms



Injection: a 12.5 µl Agilent 19091S-602 Initial pressure: 8.47 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

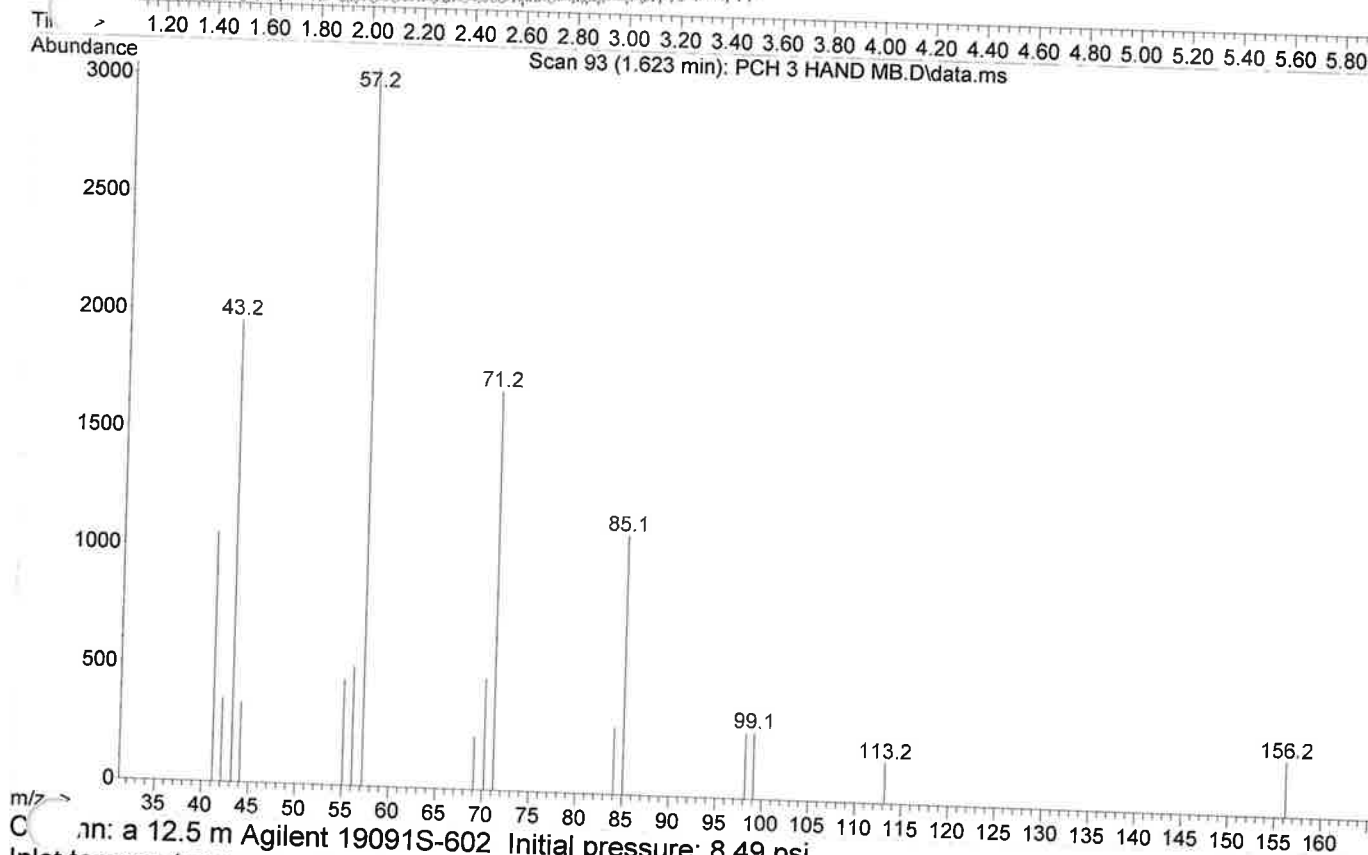
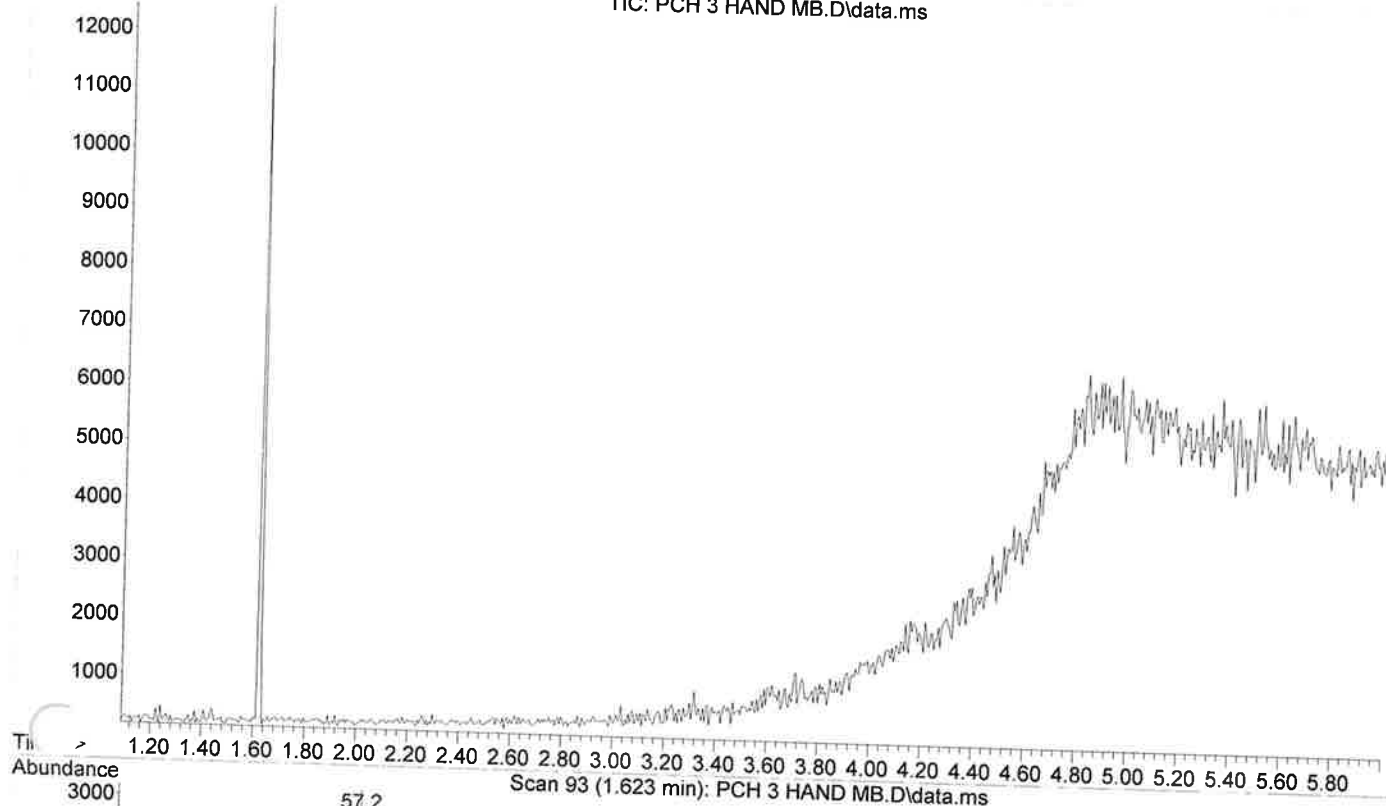
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 3 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:02
Method: C:\MSDCHEM\1\METHODS\MS100TR.M

Enc

Sample:

Misc. Information:

TIC: PCH 3 HAND MB.D\data.ms



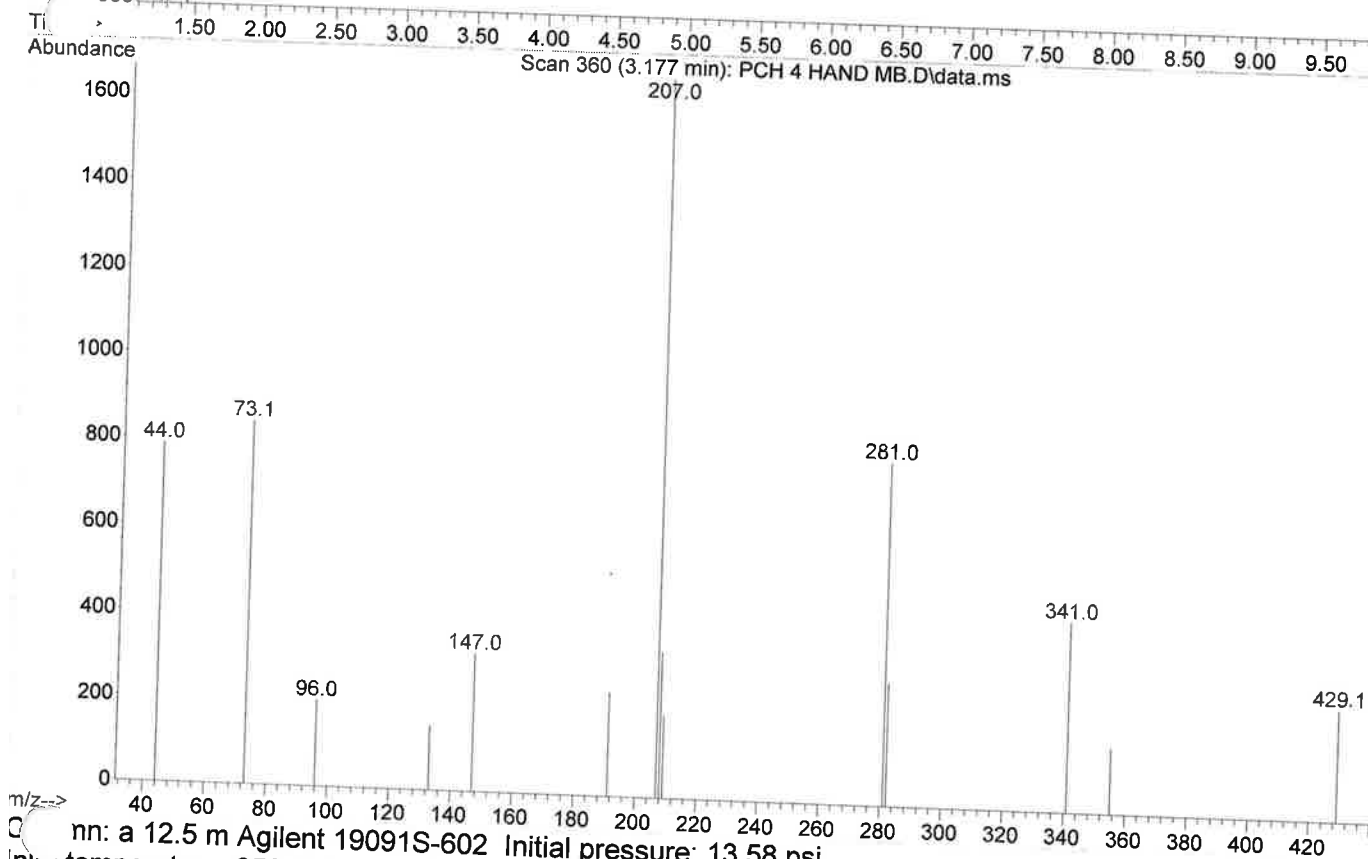
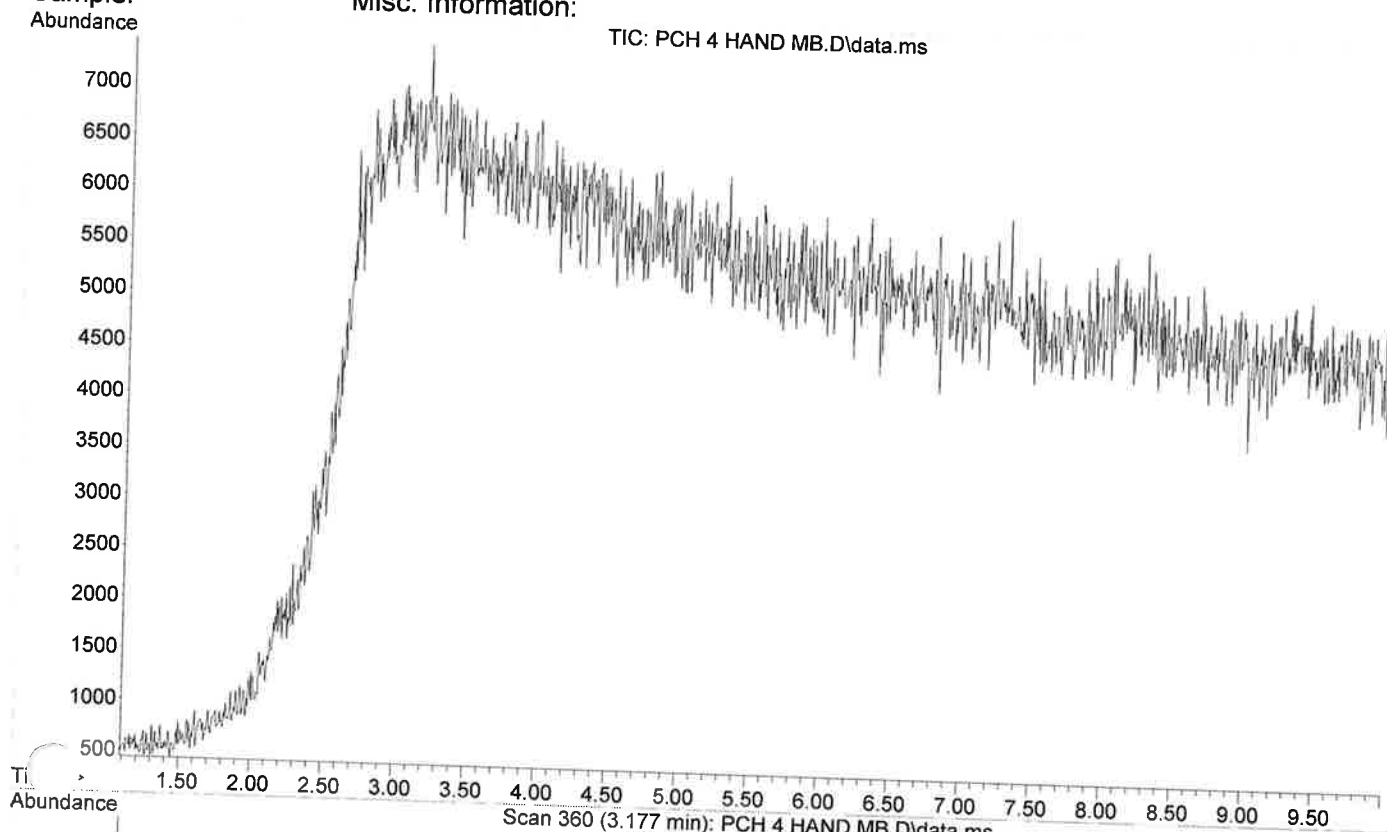
Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 4 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:21
Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M

Eme

Misc. Information:

TIC: PCH 4 HAND MB.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 5 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 10:46

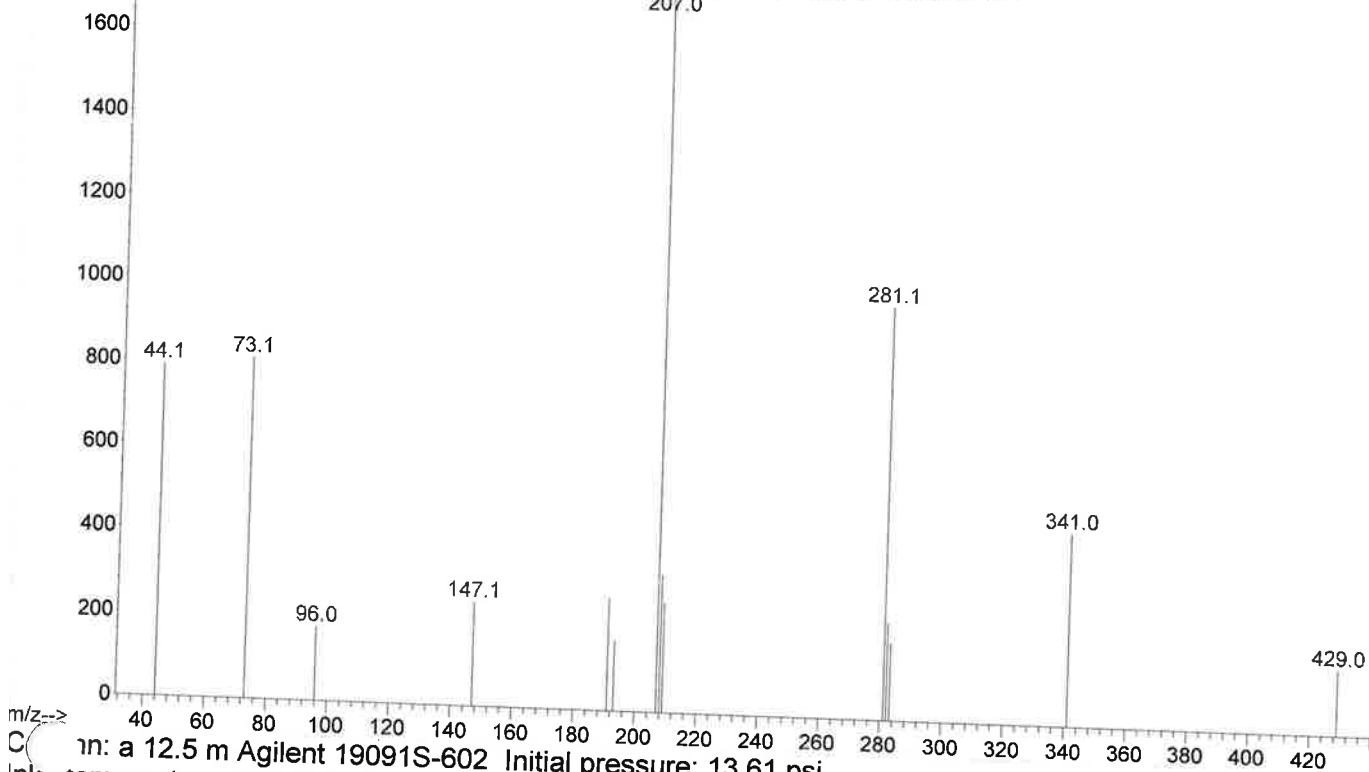
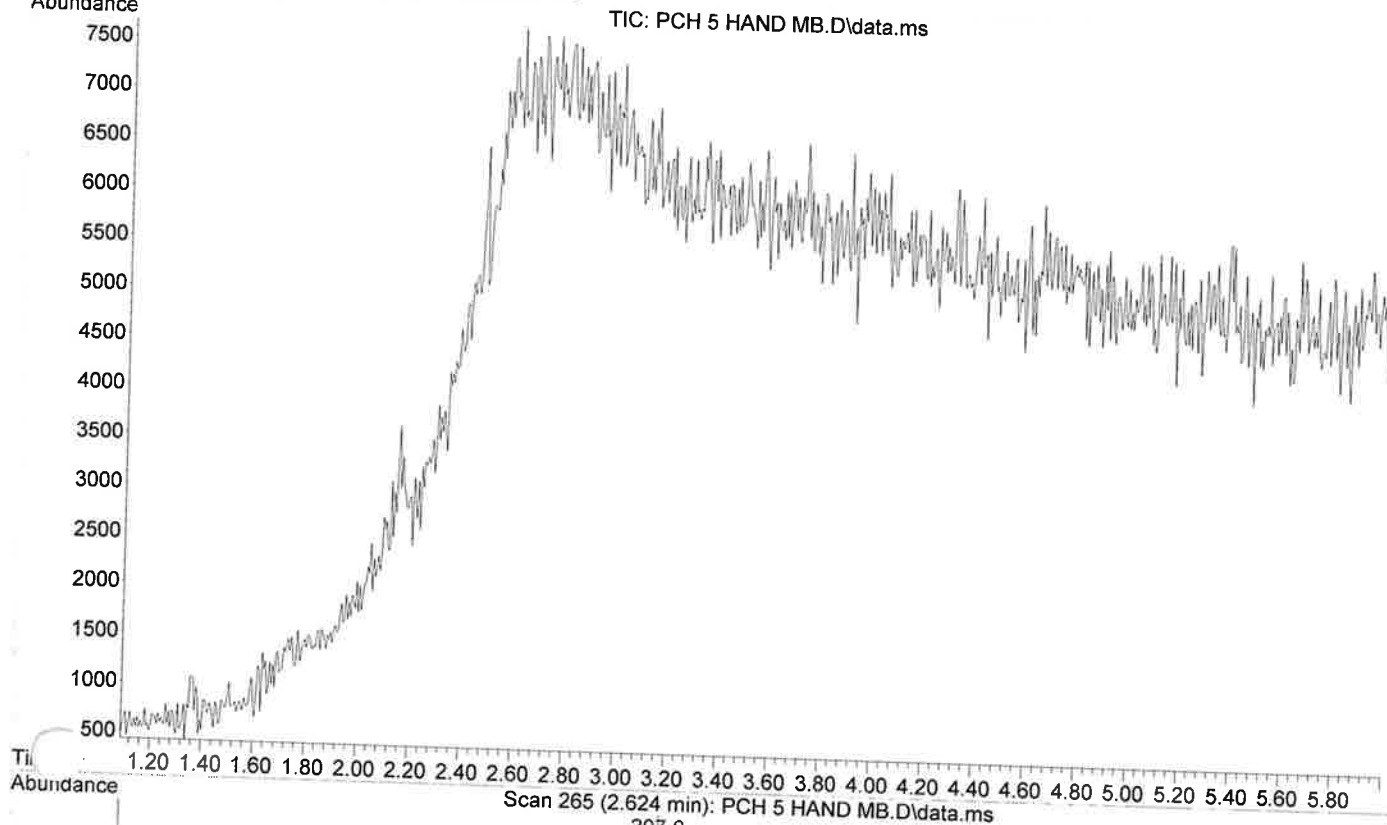
Emc

Method: C:\MSDCHEM\1\METHODS\MS200TR.M

Sample:

Misc. Information:

TIC: PCH 5 HAND MB.D\data.ms

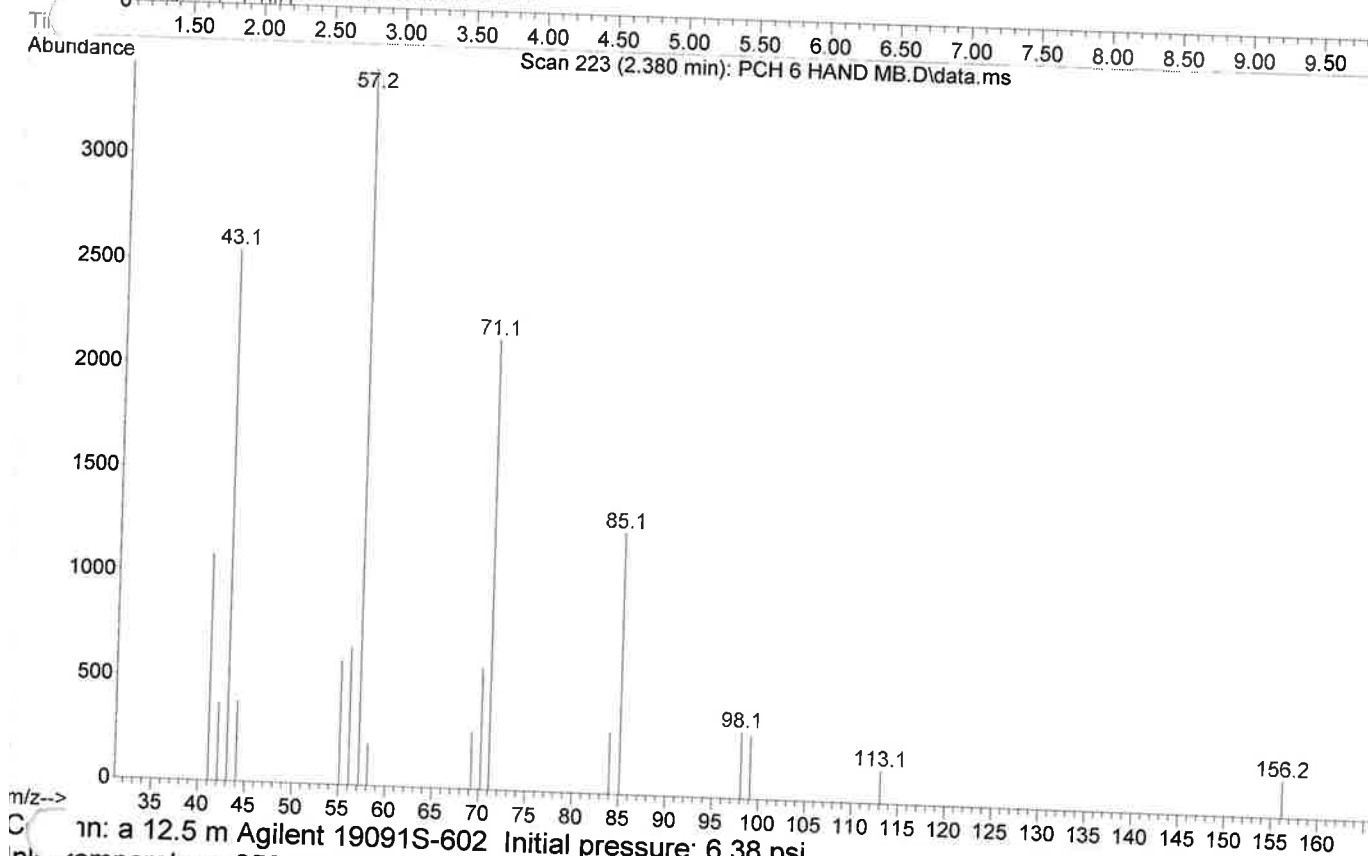
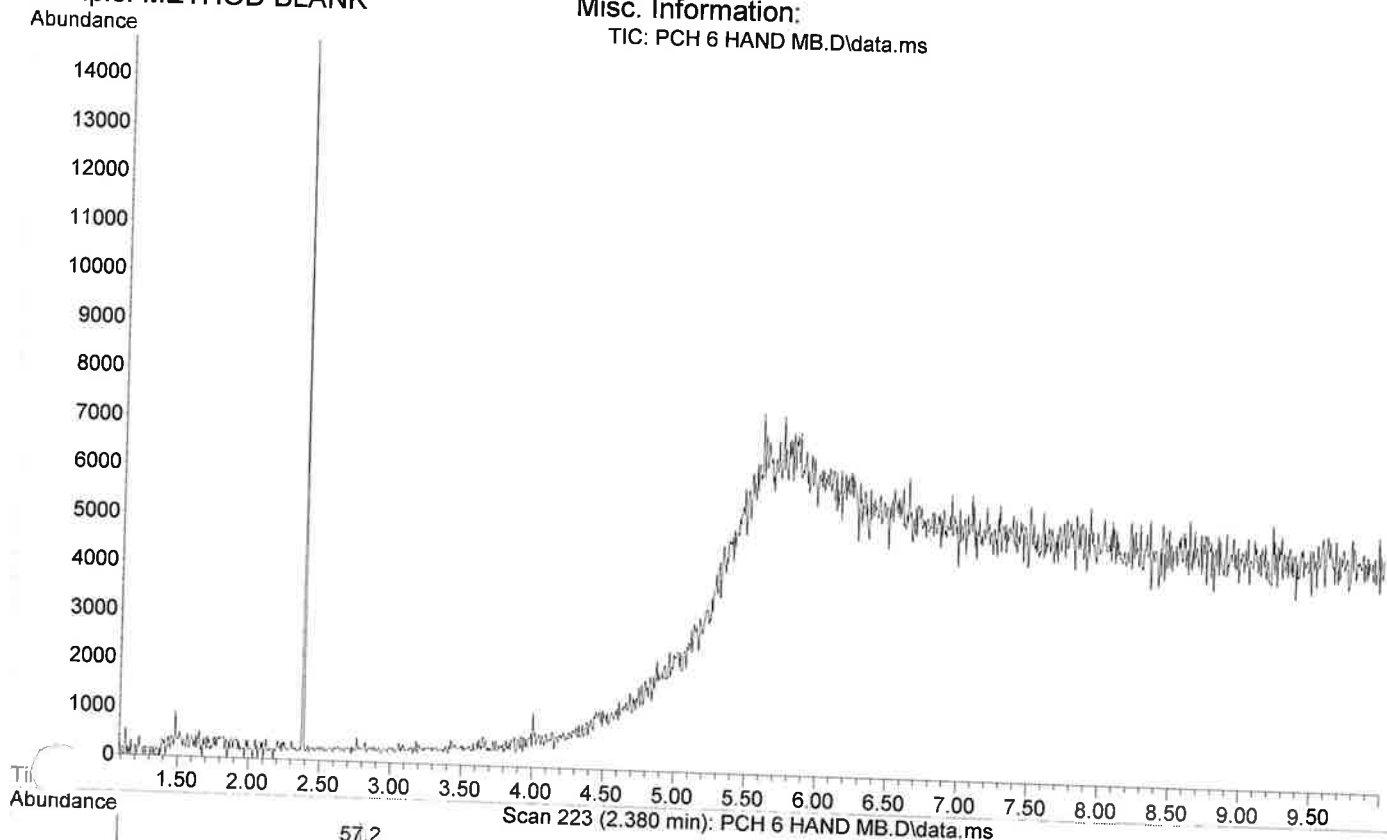


Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 'C Split Ratio: 50:1 Transfer Line Temp: 280 'C
Initial oven temp: 200 'C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH 6 HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 22 Jun 2017 12:54
Method: C:\MSDCHEM\1\METHODS\MSDRUGS60.M
Sample: METHOD BLANK

Emc

Misc. Information:
TIC: PCH 6 HAND MB.D\data.ms

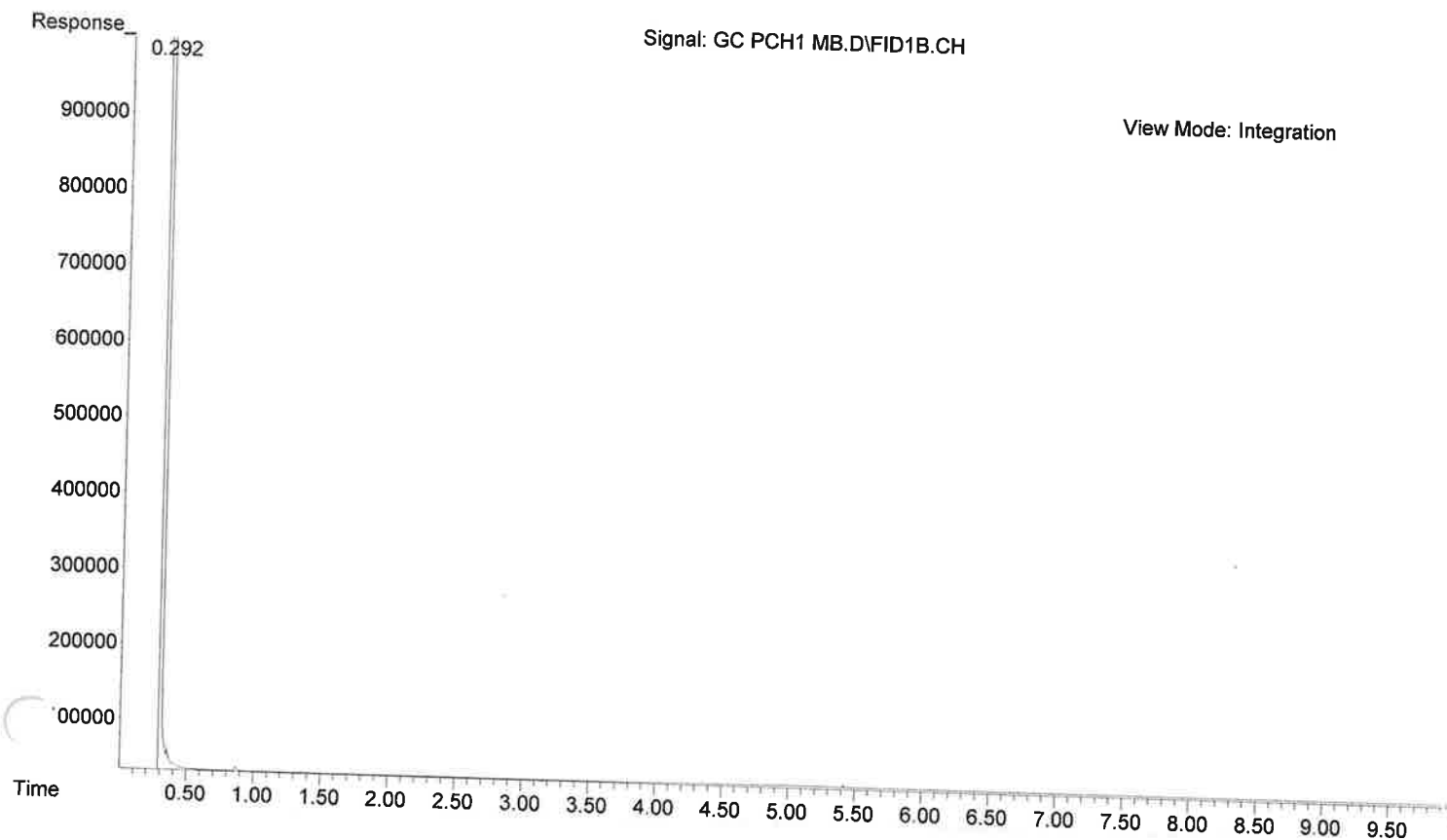


Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 6.38 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 60 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

File : C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH1 MB.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 12:59:49 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: METHANOL
Mi nfo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

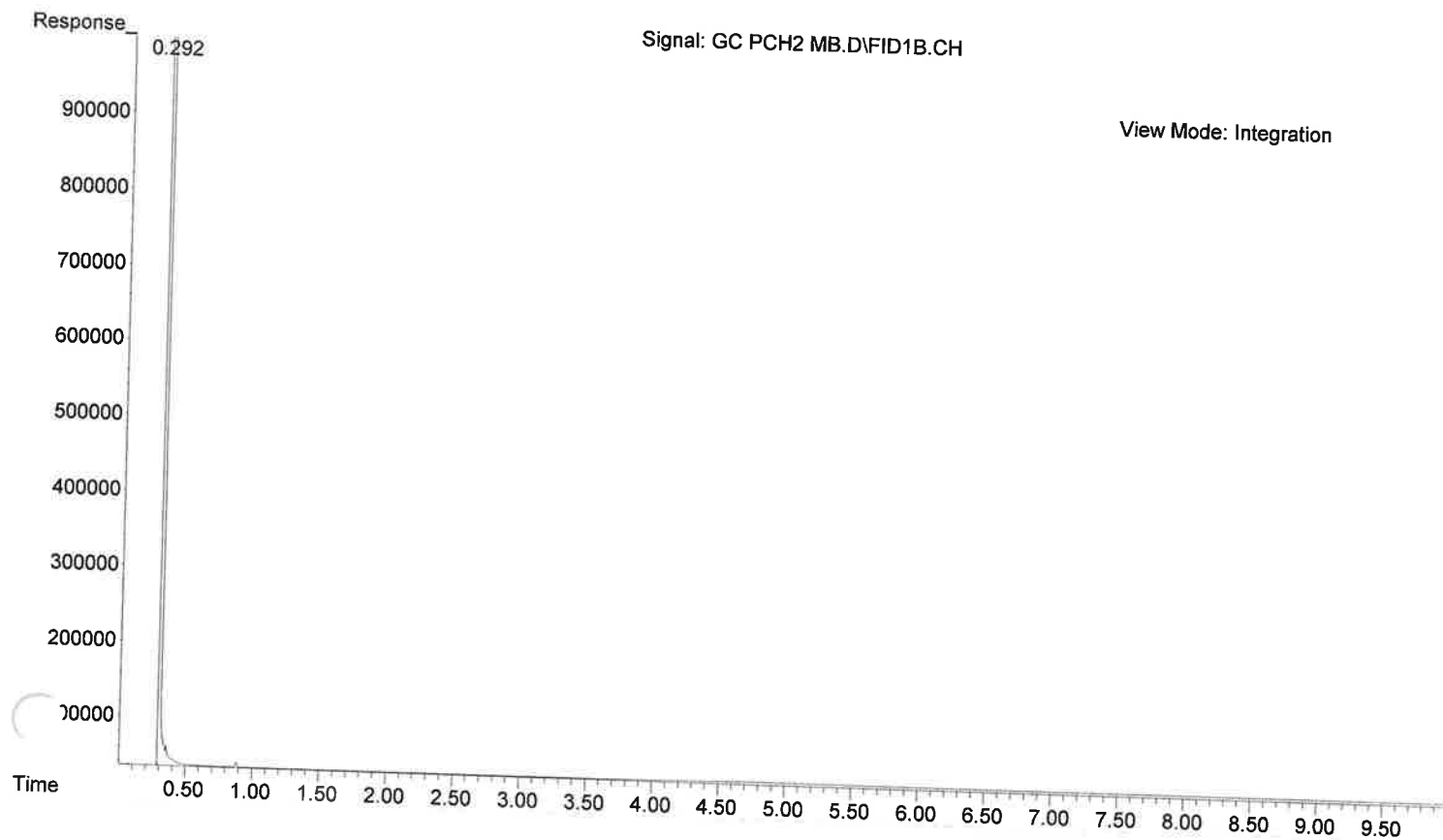
015

BMC



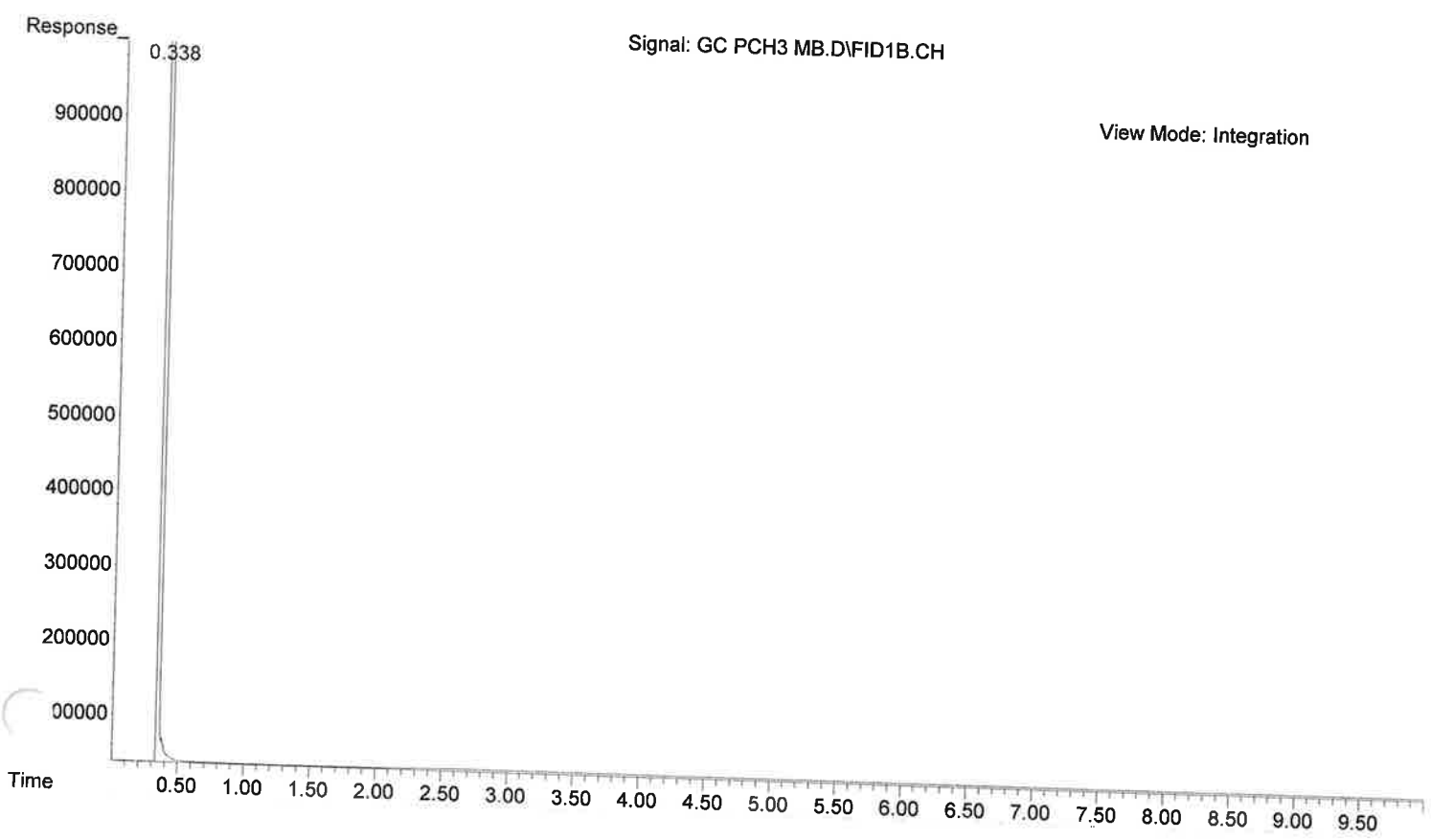
File : C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH2 MB.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 13:28:53 using AcqMethod ASGC100.M
Instrument : Graceland
Sample Name: METHANOL
Mixture : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

eme



File : C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH3 MB.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 13:57:04 using AcqMethod ASGC200.M
Instrument : Graceland
Sample Name: METHANOL
Mi fo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

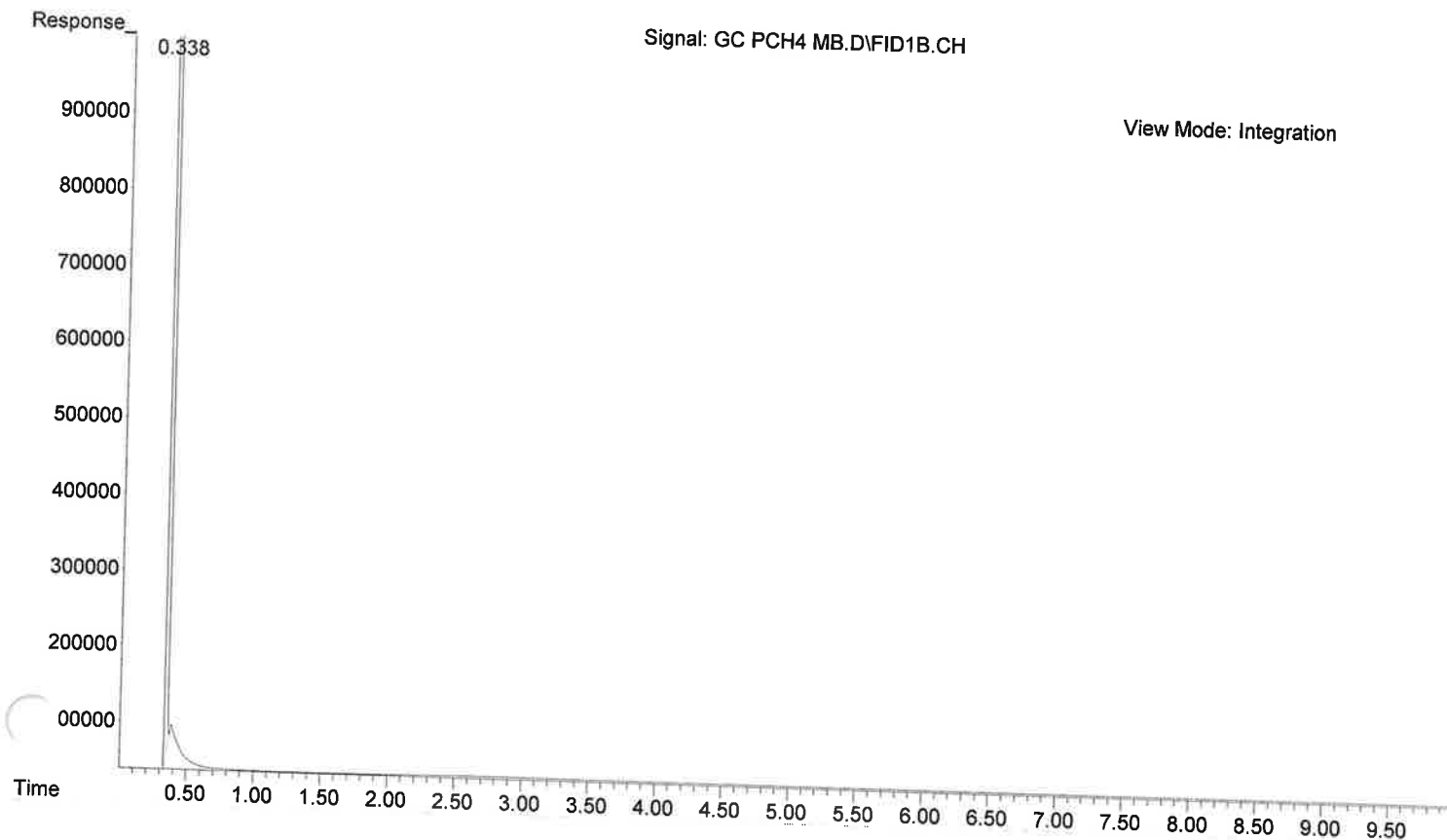
Ene



File : C:\msdchem\1\DATA\2017\WHS\6-20-2019 PCH\GC PCH4 MB.D
Operator : WILLIAM STANTON
Acquired : 20-Jun-17, 14:25:04 using AcqMethod ASGC200.M
Instrument : Graceland
Sample Name: METHANOL
Mi nfo : Pethidine, Cocaine, Hydrocodone std.
Vial Number: 0

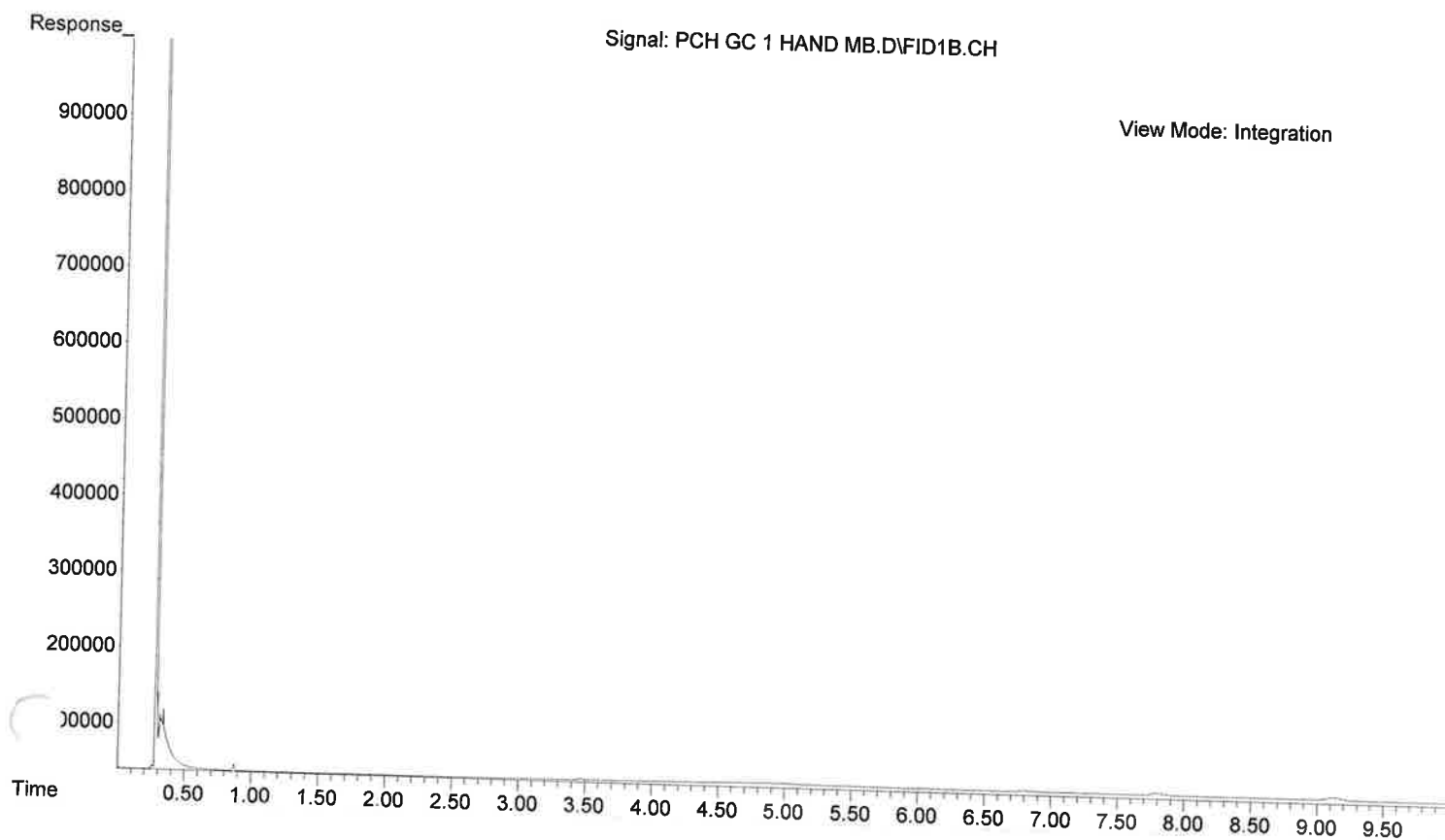
Ene

AB



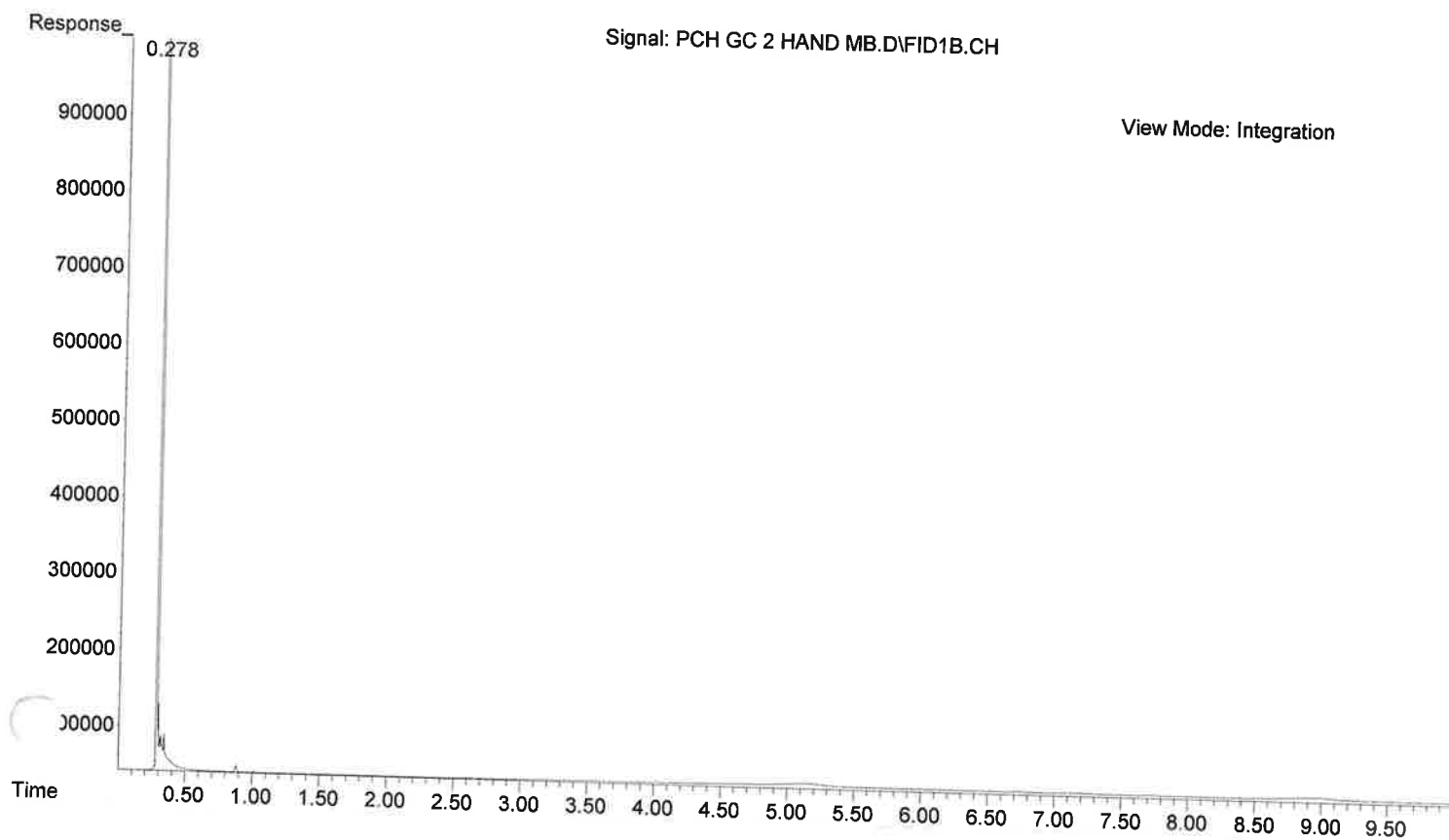
File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 1 HAND MB.D
Operator :
Acquired : 22-Jun-17, 13:30:01 using AcqMethod GC100.M
Instrument : Graceland
Sample Name: METHOD BLANK
Misc info :
Vial Number: 1

ENC



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 2 HAND MB.D
Operator :
Acquired : 22-Jun-17, 13:55:43 using AcqMethod GC100.M
Instrument : Graceland
Sample Name: METHOD BLANK
Misc Info :
Vial Number: 1

EMC

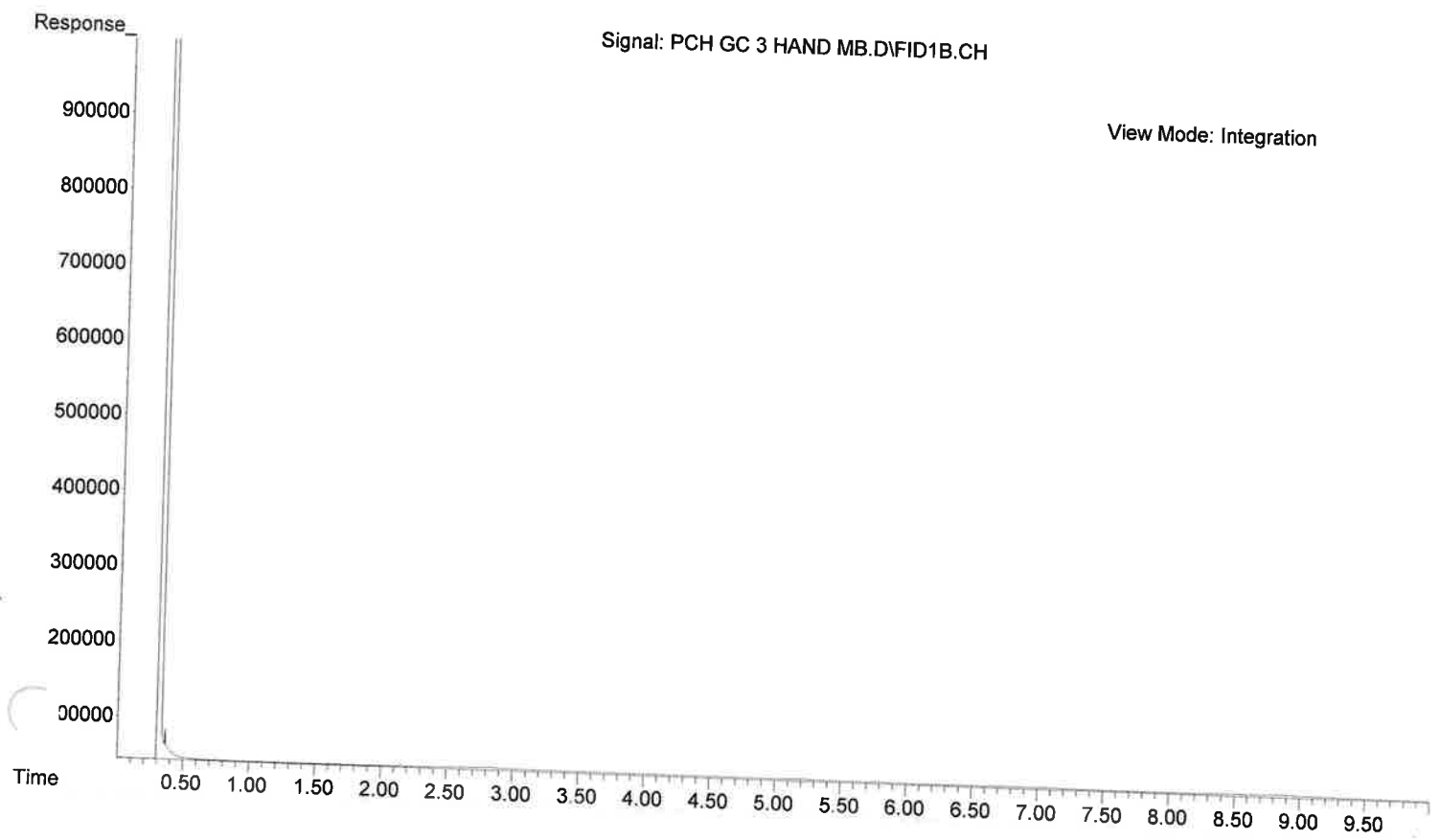


File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 3 HAND MB.D
Operator :
Acquired : 22-Jun-17, 14:21:18 using AcqMethod GC200.M
Instrument : Graceland
Sample Name: METHOD BLANK
Mi info :
Vial Number: 1

Enc

Signal: PCH GC 3 HAND MB.D\FID1B.CH

View Mode: Integration



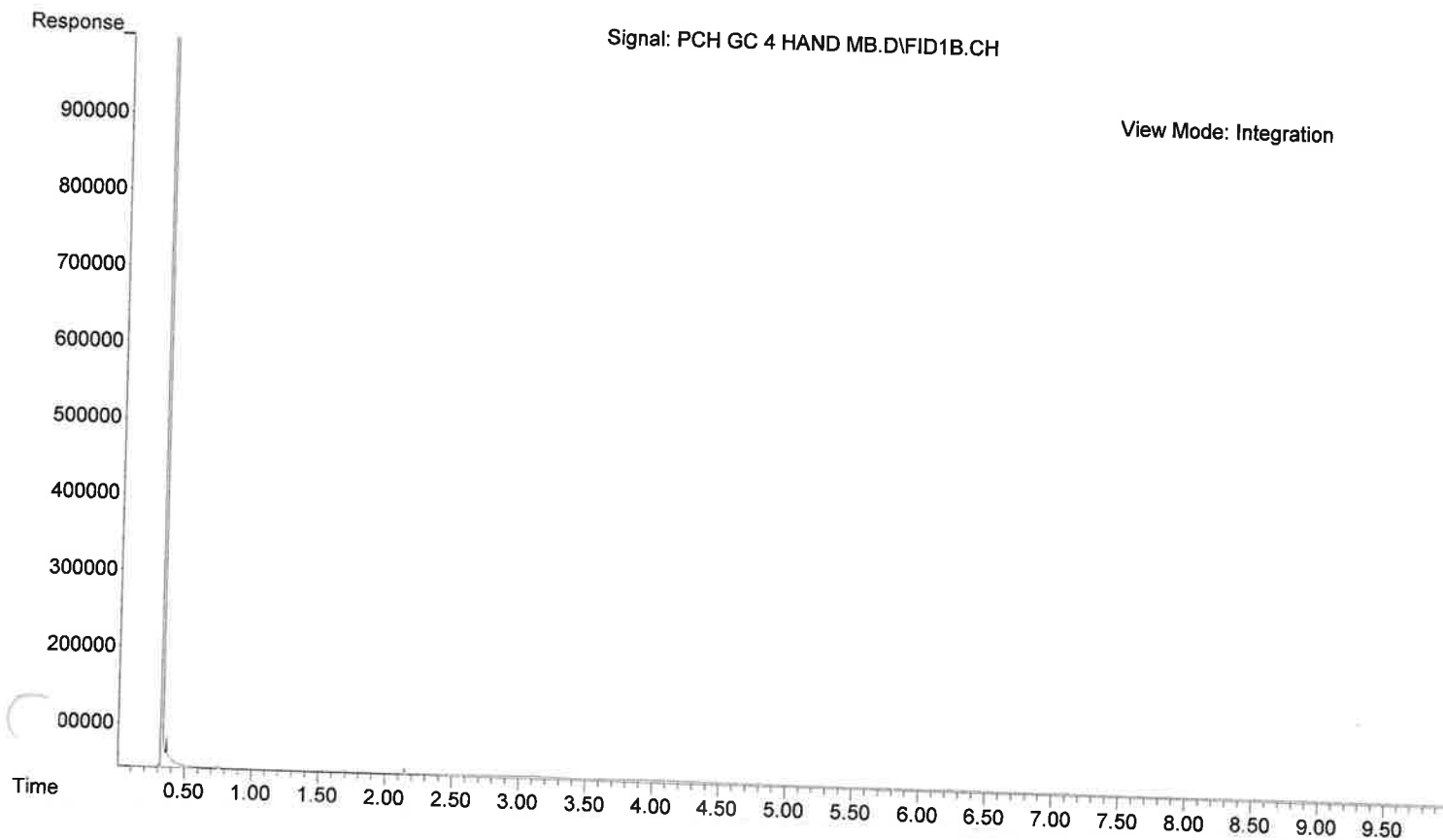
File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\PCH GC 4 HAND MB.D
Operator :
Acquired : 22-Jun-17, 14:47:27 using AcqMethod GC200.M
Instrument : Graceland
Sample Name: METHOD BLANK
Mi fo :
Vial Number: 1

Enc

GB

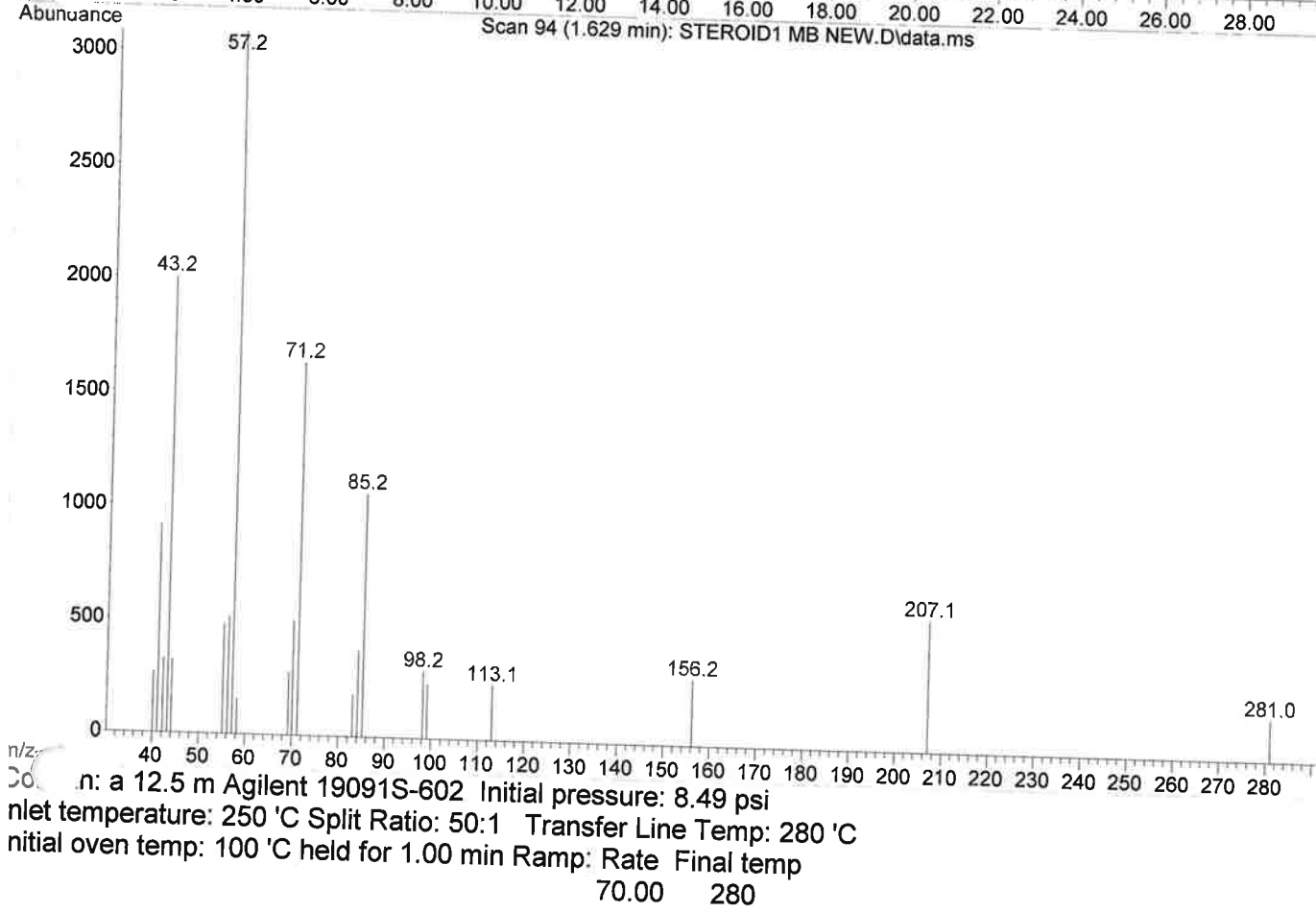
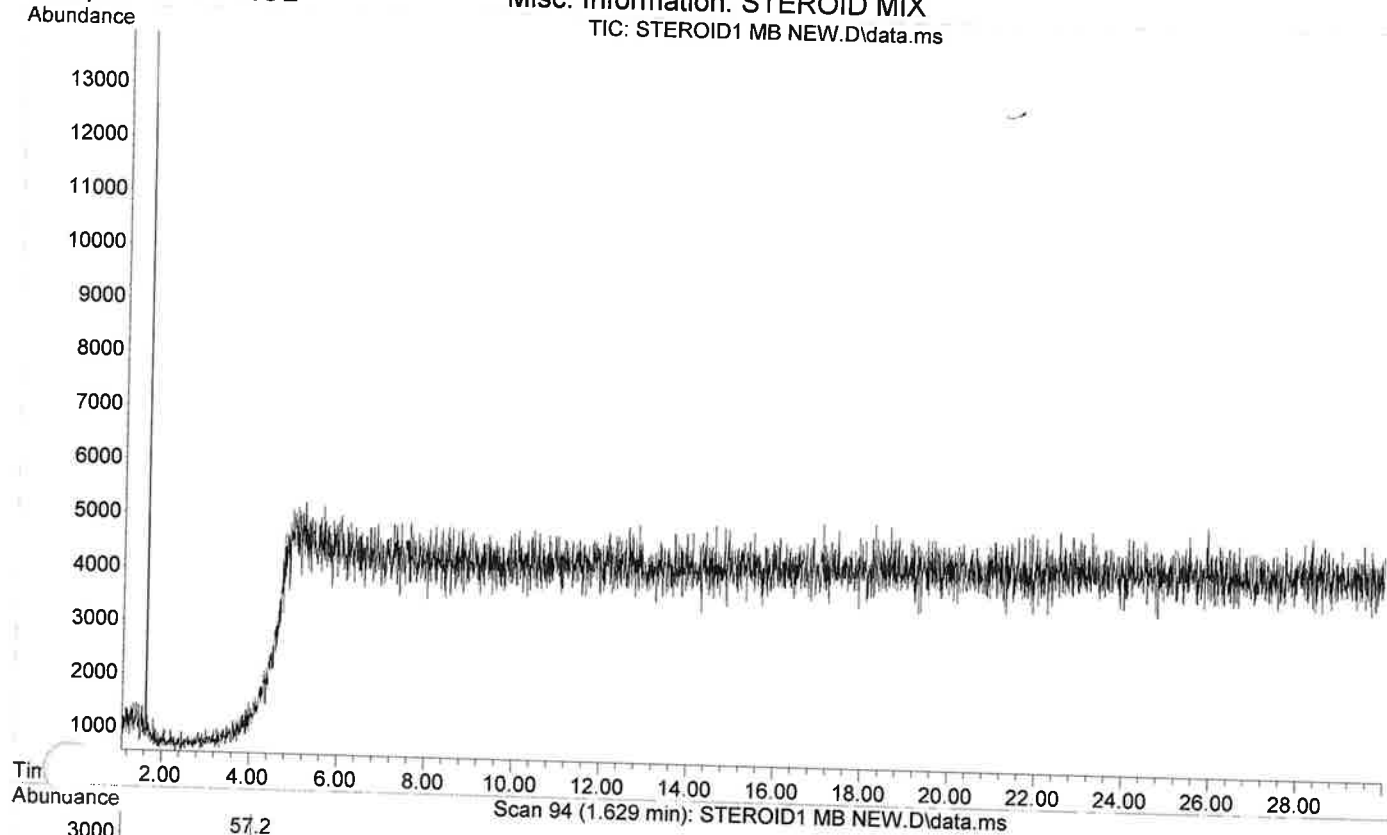
Signal: PCH GC 4 HAND MB.D\FID1B.CH

View Mode: Integration



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STEROID1 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 14:01
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL
Misc. Information: STERIOD MIX
TIC: STERIOD1 MB NEW.D\data.ms

Emc



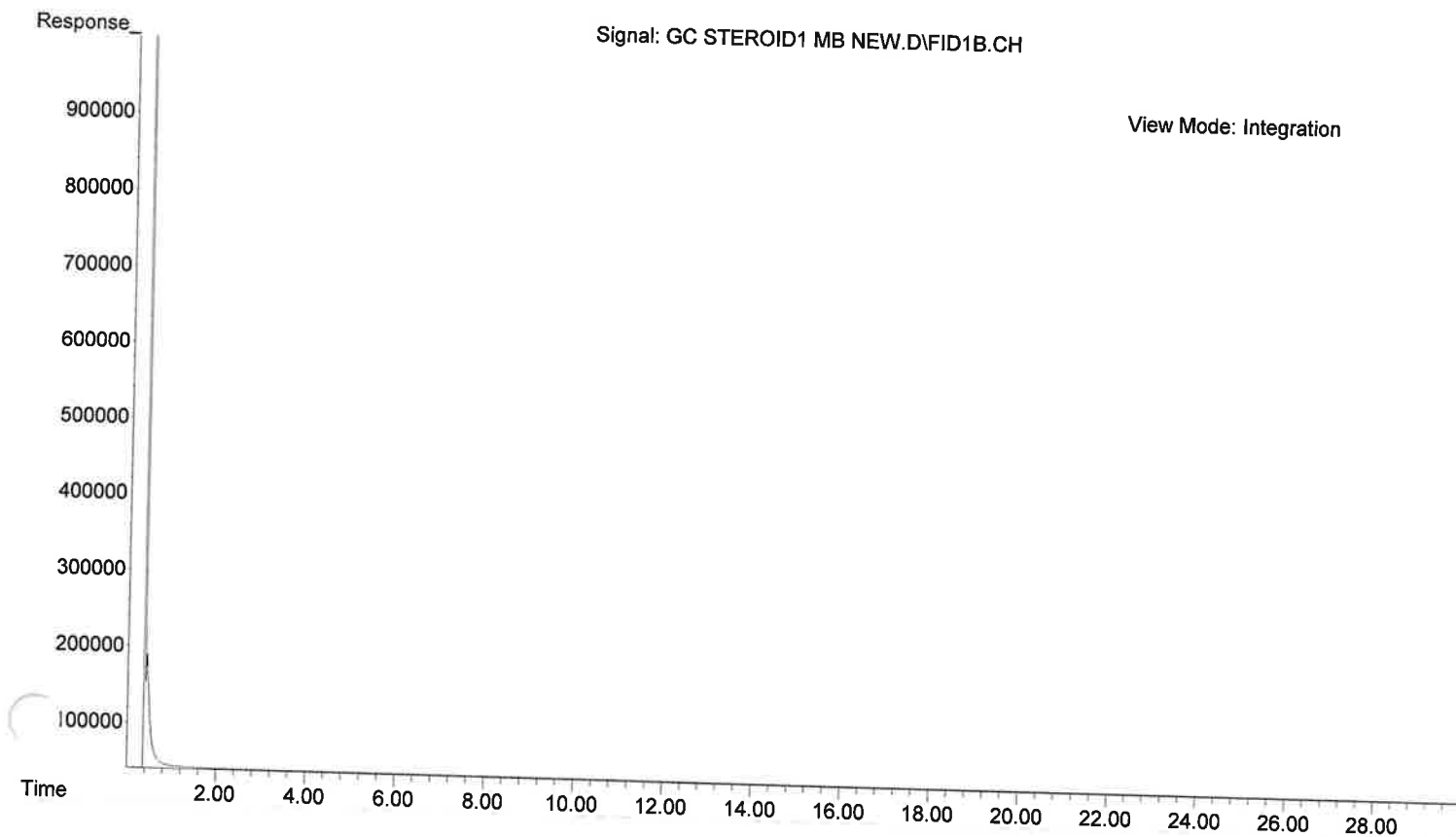
File :C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID1 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 16:18:57 using AcqMethod ASGC280ISOT1.M
Instrument : Graceland
Sample Name: METHANOL
M nfo : STEROID MIX
Vial Number: 0

Line

SK

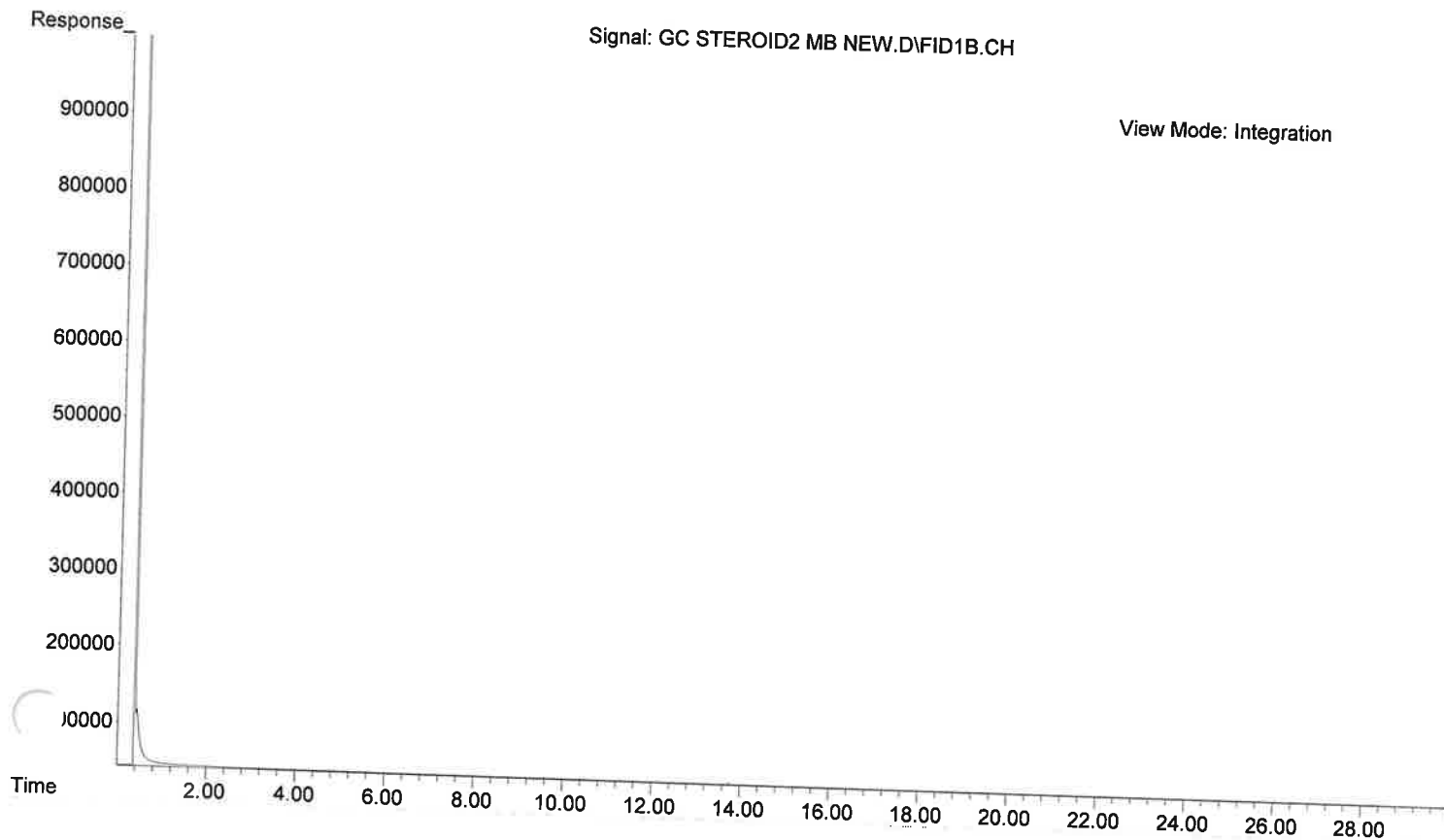
Signal: GC STEROID1 MB NEW.D\FID1B.CH

View Mode: Integration



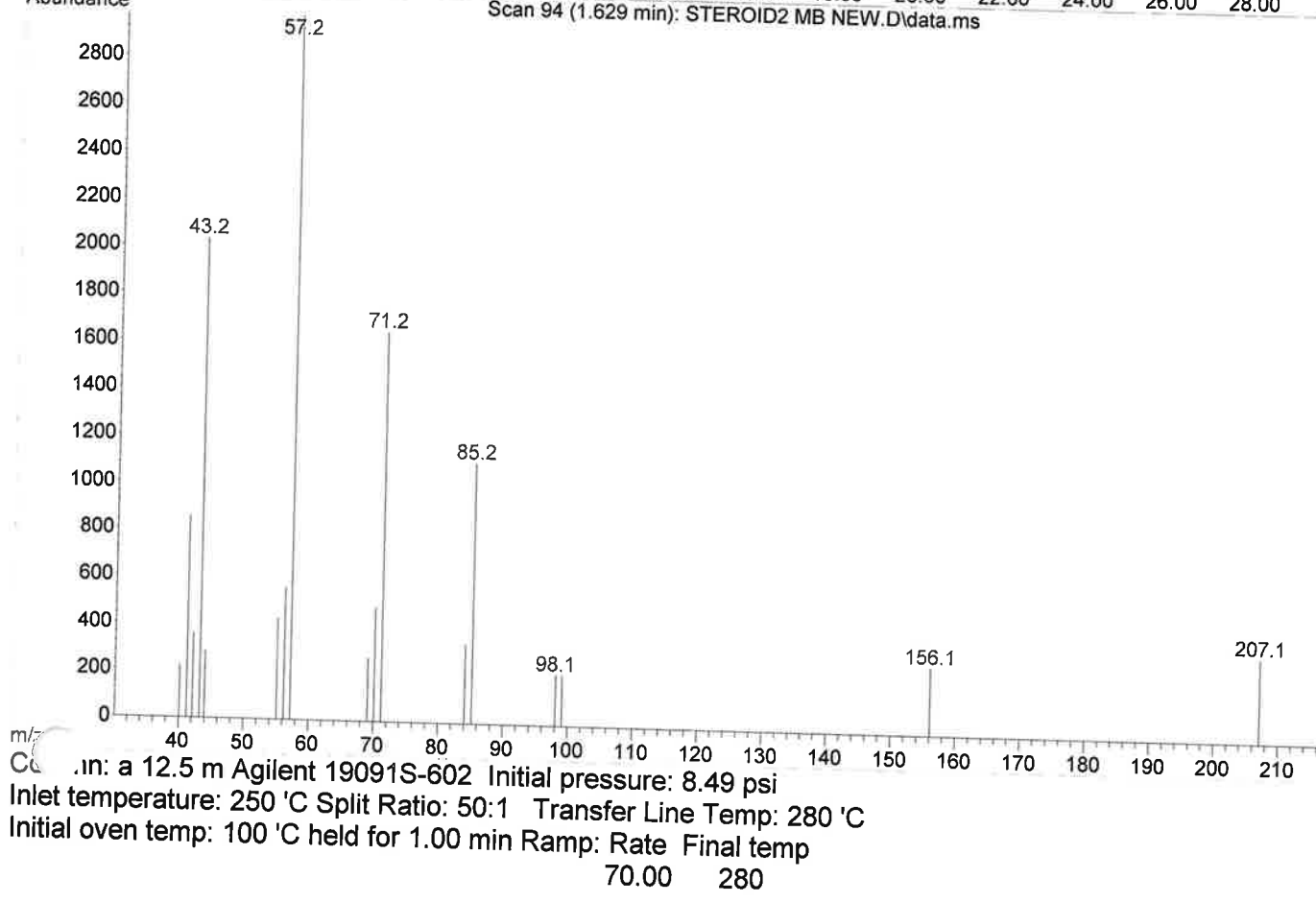
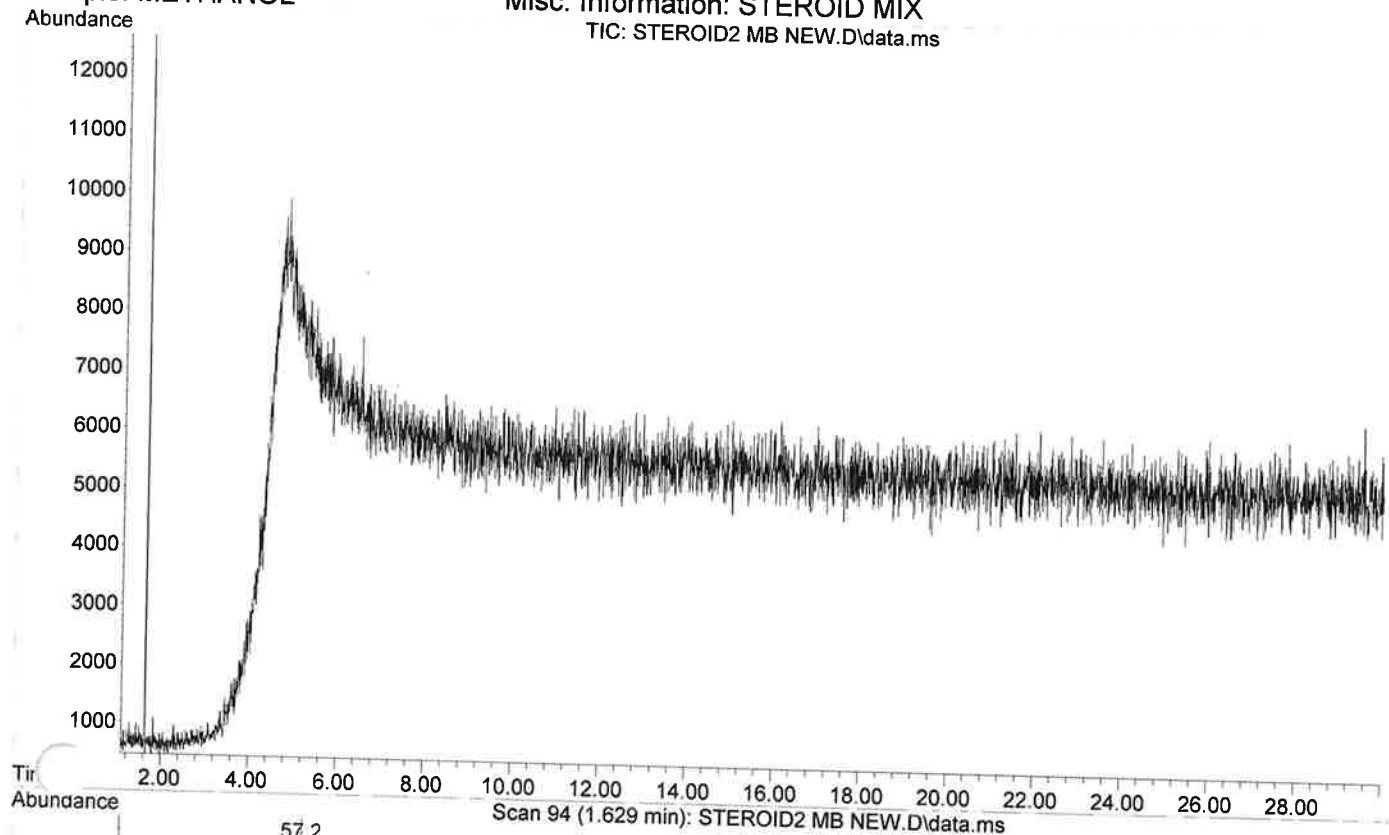
File :C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC STEROID2 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 17:23:15 using AcqMethod ASGC280ISOTI.M
Instrument : Graceland
Sample Name: METHANOL
Misc .fo : STEROID MIX
Vial Number: 0

bmc



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\STERIOD2 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 15:10
Method: C:\MSDCHEM\1\METHODS\ASMSDRUGSTI.M
Sample: METHANOL
Misc. Information: STERIOD MIX
TIC: STERIOD2 MB NEW.D\data.ms

ENC



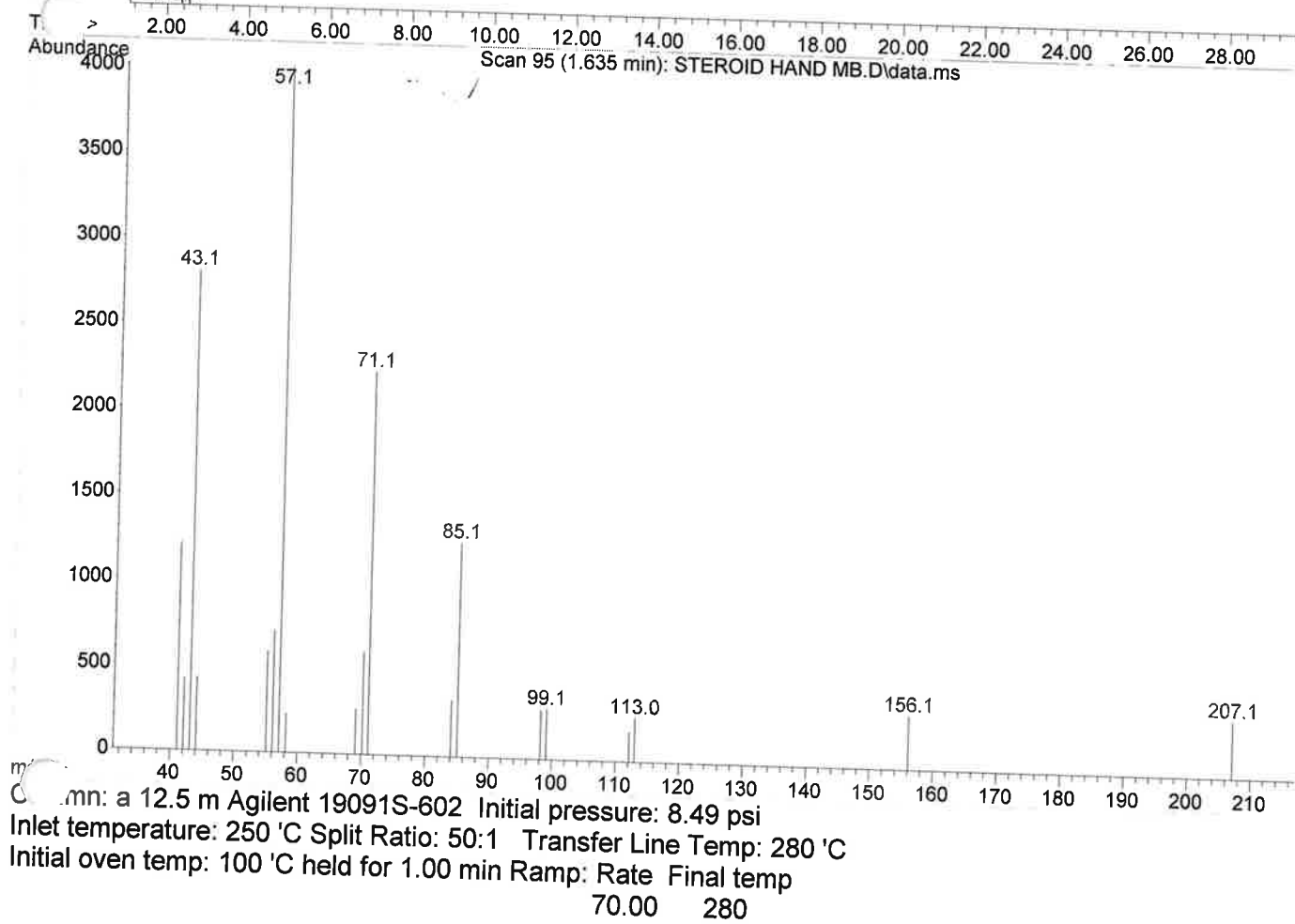
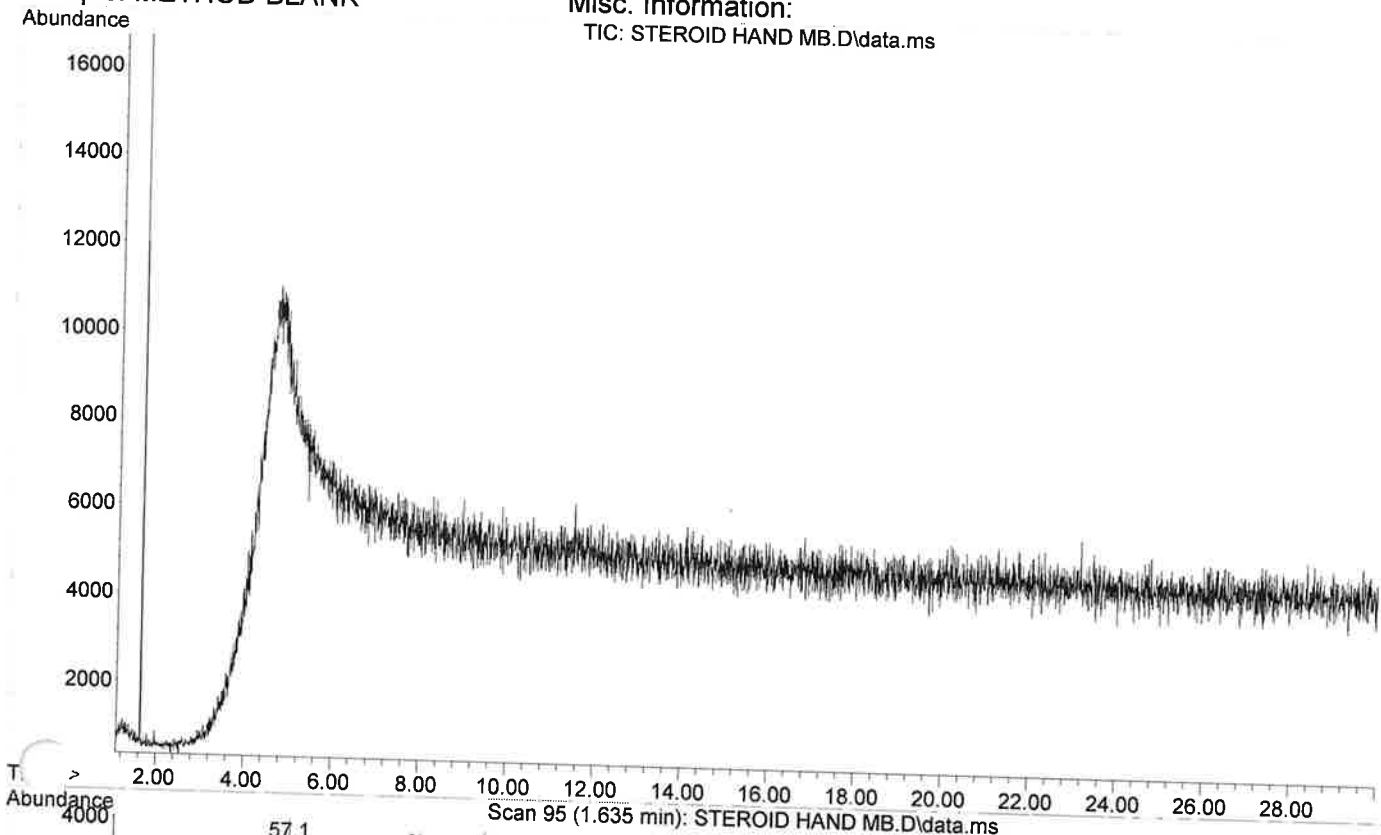
Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\STERIOD HAND MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 8:46

one

CSB

Method: C:\MSDCHEM\1\METHODS\MSDRUGST1.M
Sample: METHOD BLANK

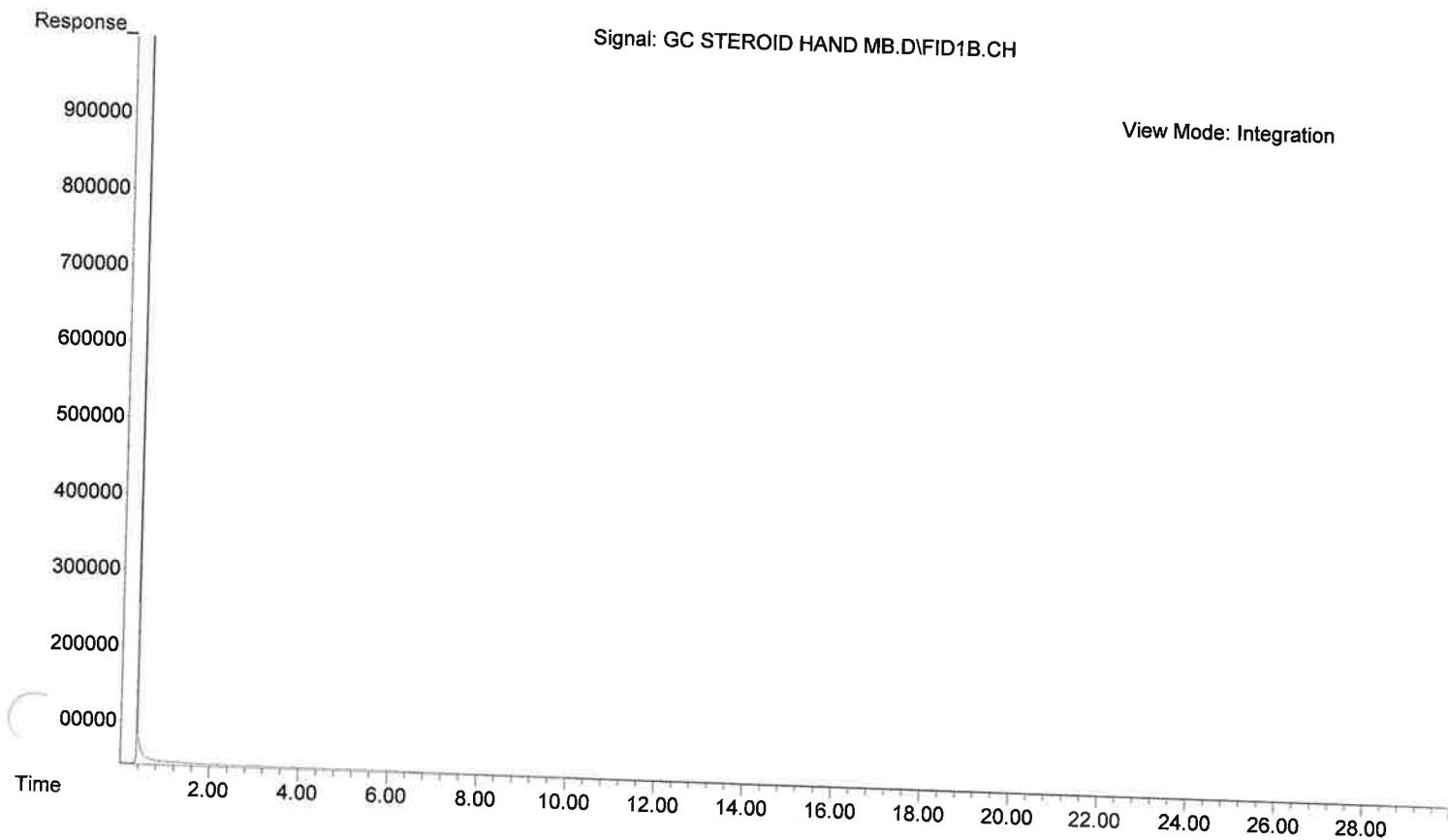
Misc. Information:
TIC: STERIOD HAND MB.D\data.ms



File :C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\GC STEROID HAND MB
... .D
Operator :
Instrument : Graceland
Acquired : 23-Jun-17, 10:08:49 using AcqMethod GC280ISOTI.M
Sample Name: METHOD BLANK
Misc Info :

WSB

Enc



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\LSD LAMPA MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 27 Jun 2017 9:35

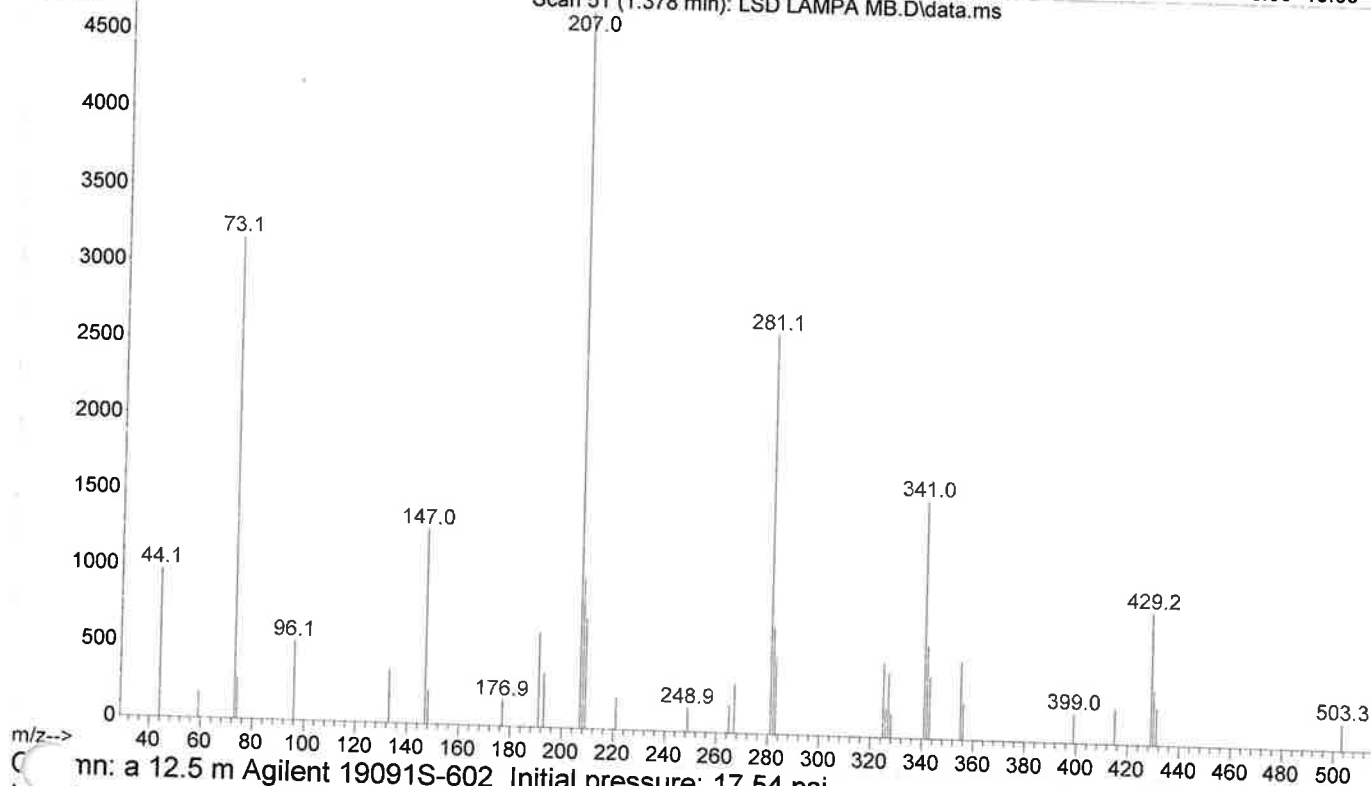
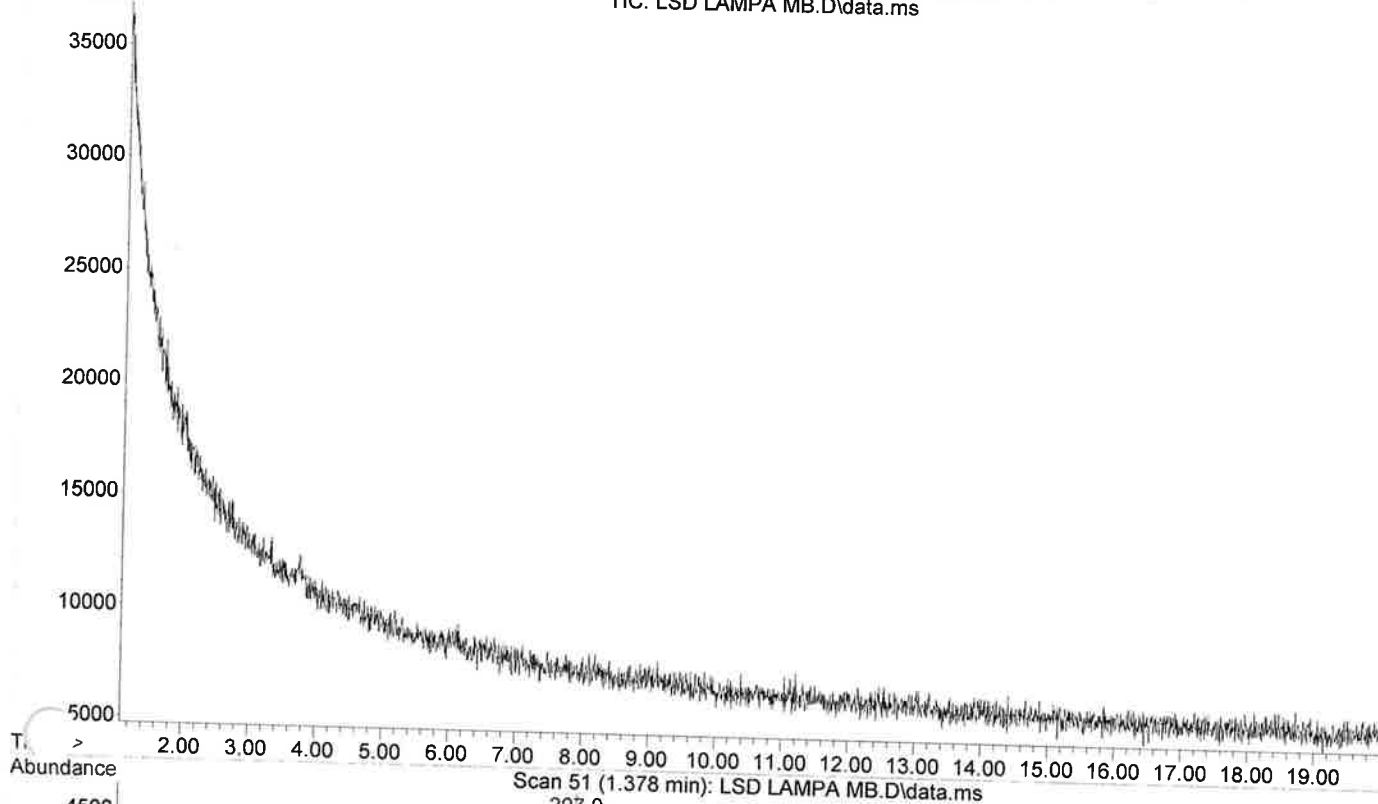
Gmc

Method: C:\MSDCHEM\1\METHODS\MS280ISO.M

Sample: METHOD BLANK

Misc. Information: METHANOL

Abundance
TIC: LSD LAMPA MB.D\data.ms



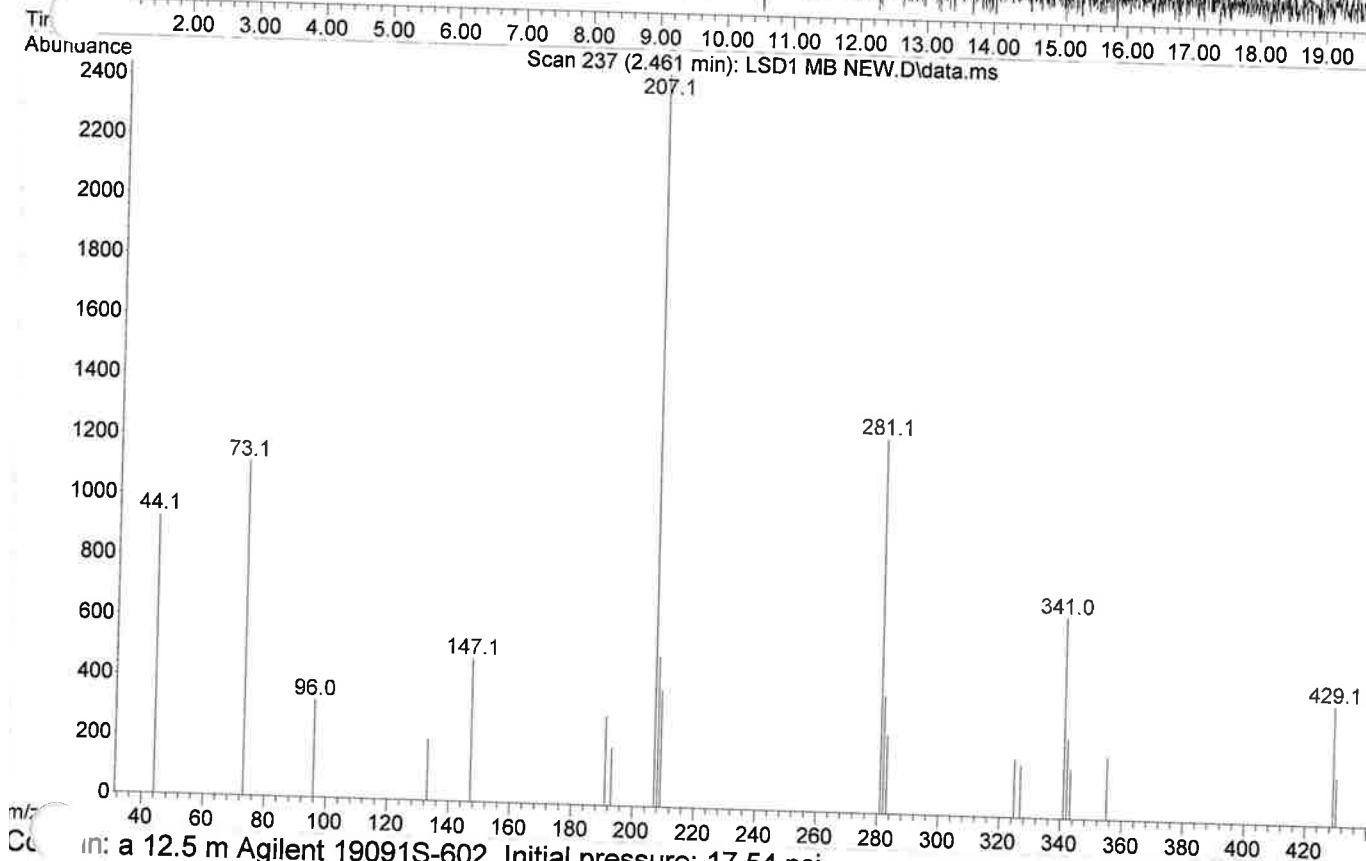
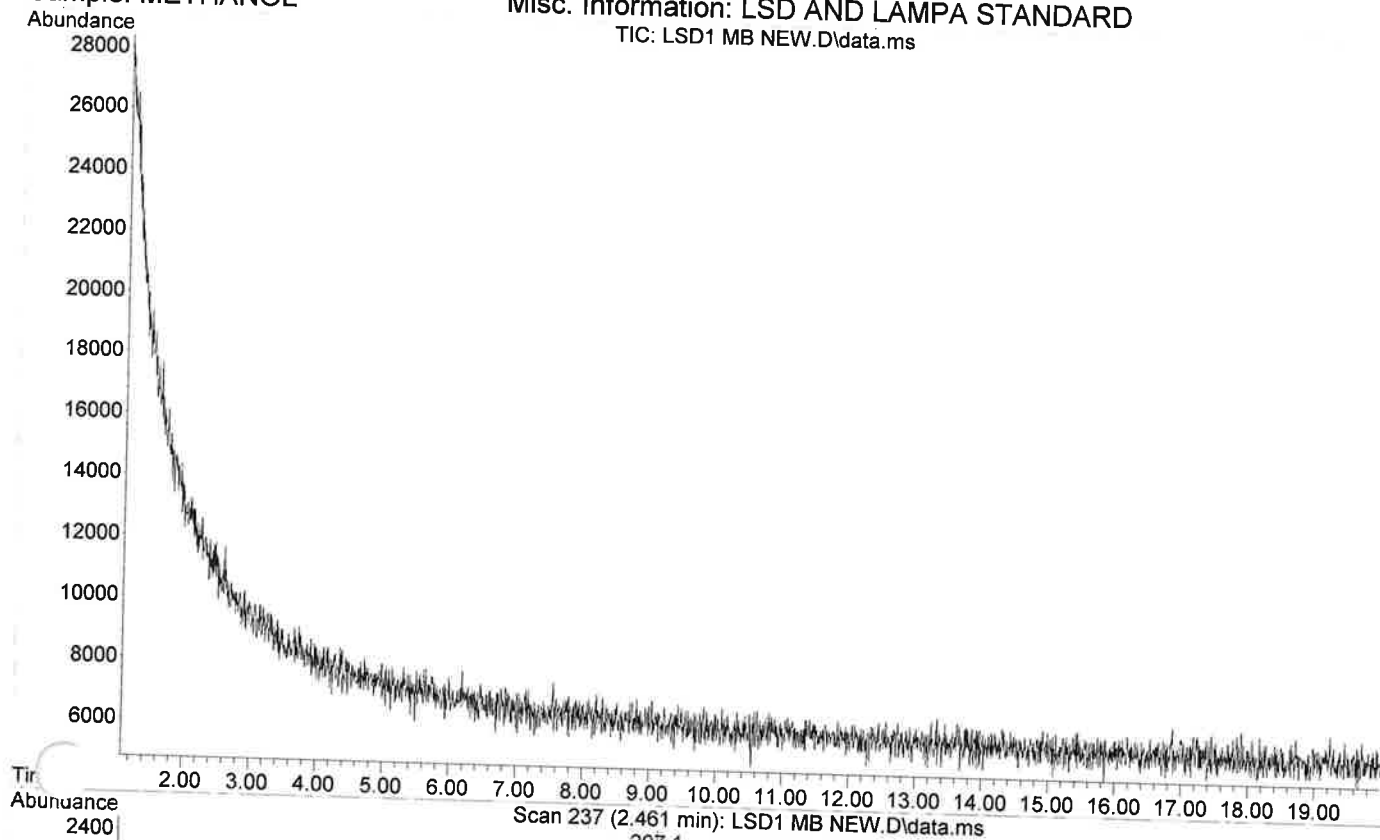
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD1 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 18:28
Method: C:\MSDCHEM\1\METHODS\ASMS280ISO.M

Sample: METHANOL

Misc. Information: LSD AND LAMPA STANDARD

TIC: LSD1 MB NEW.D\data.ms



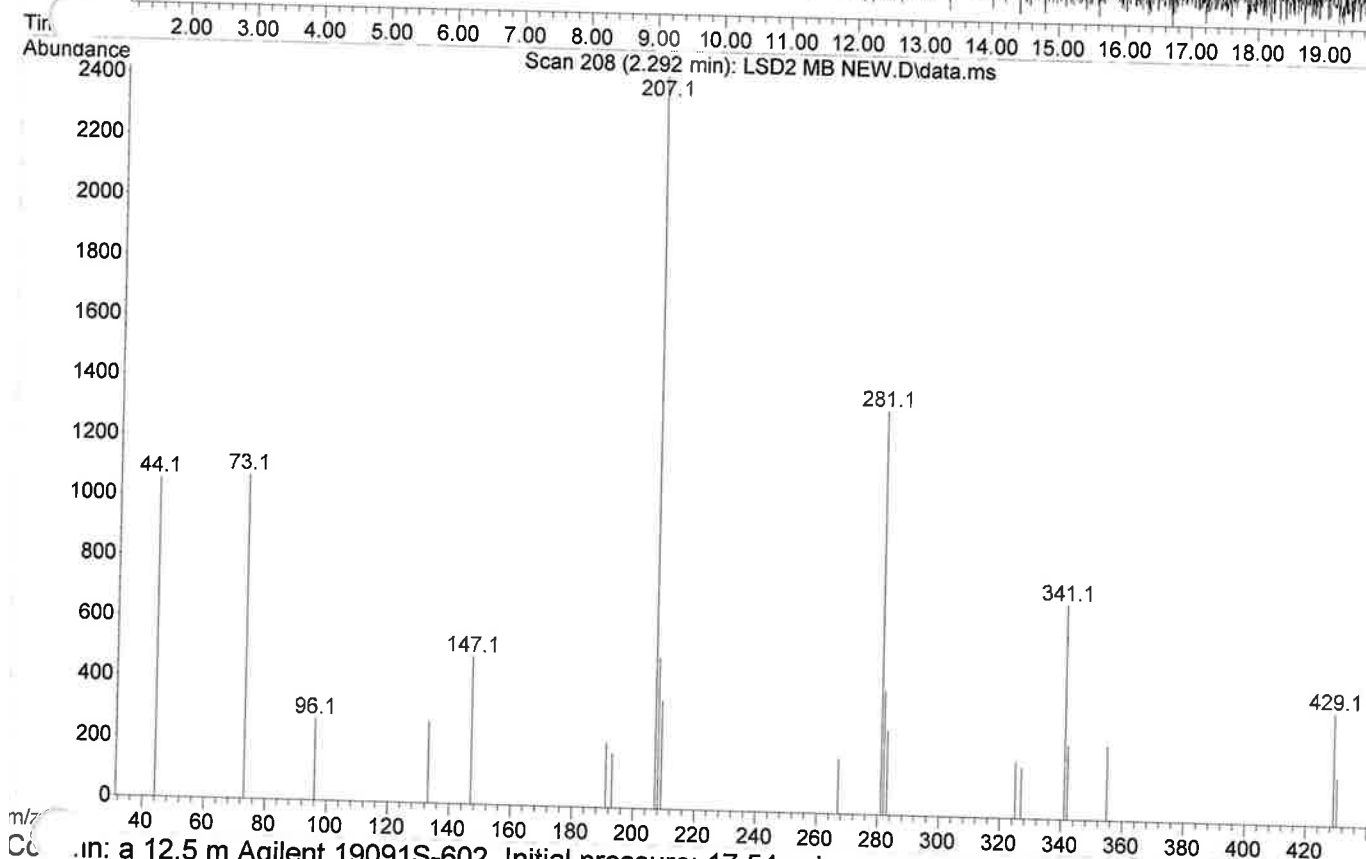
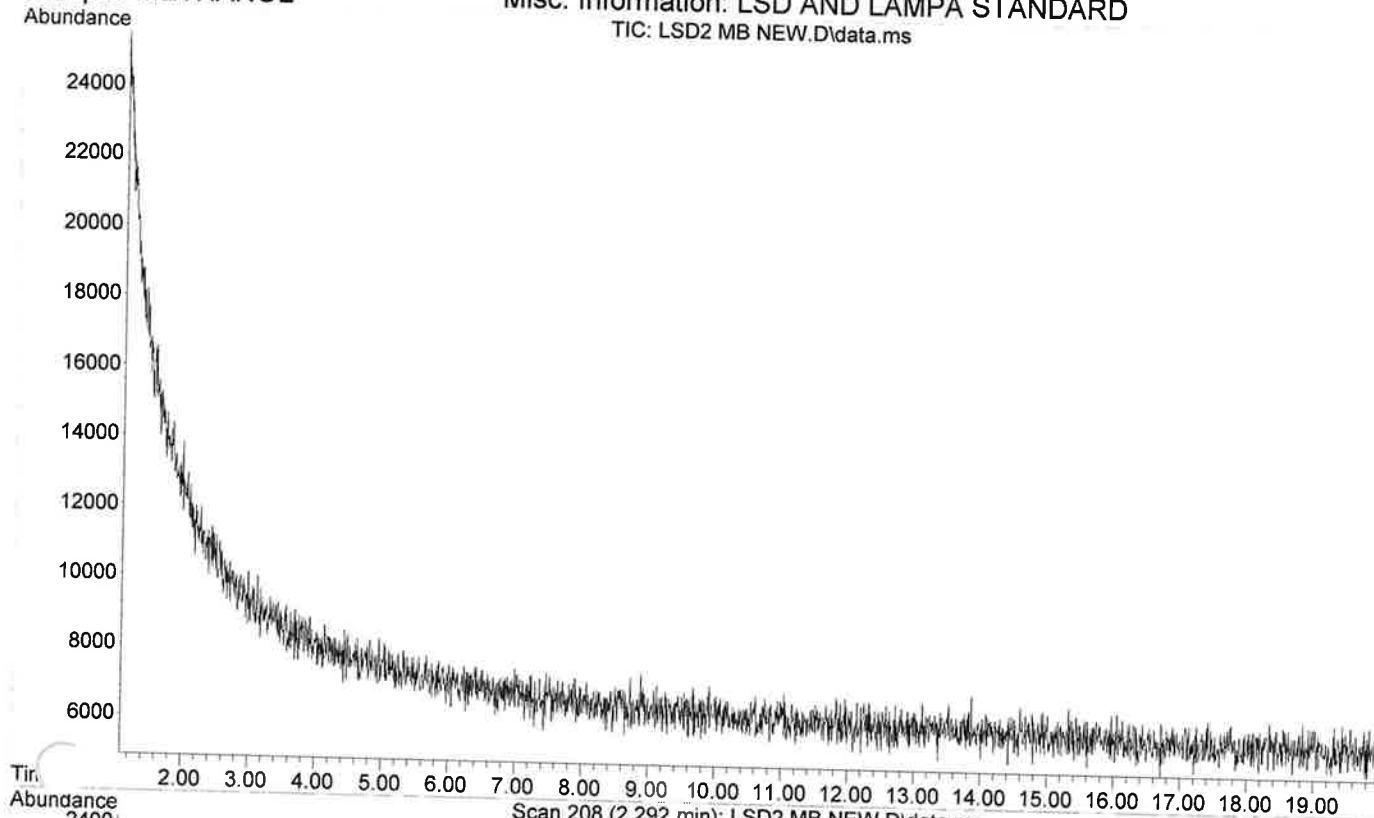
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\6-19-2017\LSD2 MB NEW.D
Tuned on 14 Jun 2017 8:41 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: WILLIAM STANTON on 19 Jun 2017 19:12
Method: C:\MSDCHEM\1\METHODS\ASMS280ISO.M

Misc. Information: LSD AND LAMPA STANDARD

Sample: METHANOL

TIC: LSD2 MB NEW.D\data.ms



GC run: a 12.5 m Agilent 19091S-602 Initial pressure: 17.54 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 280 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

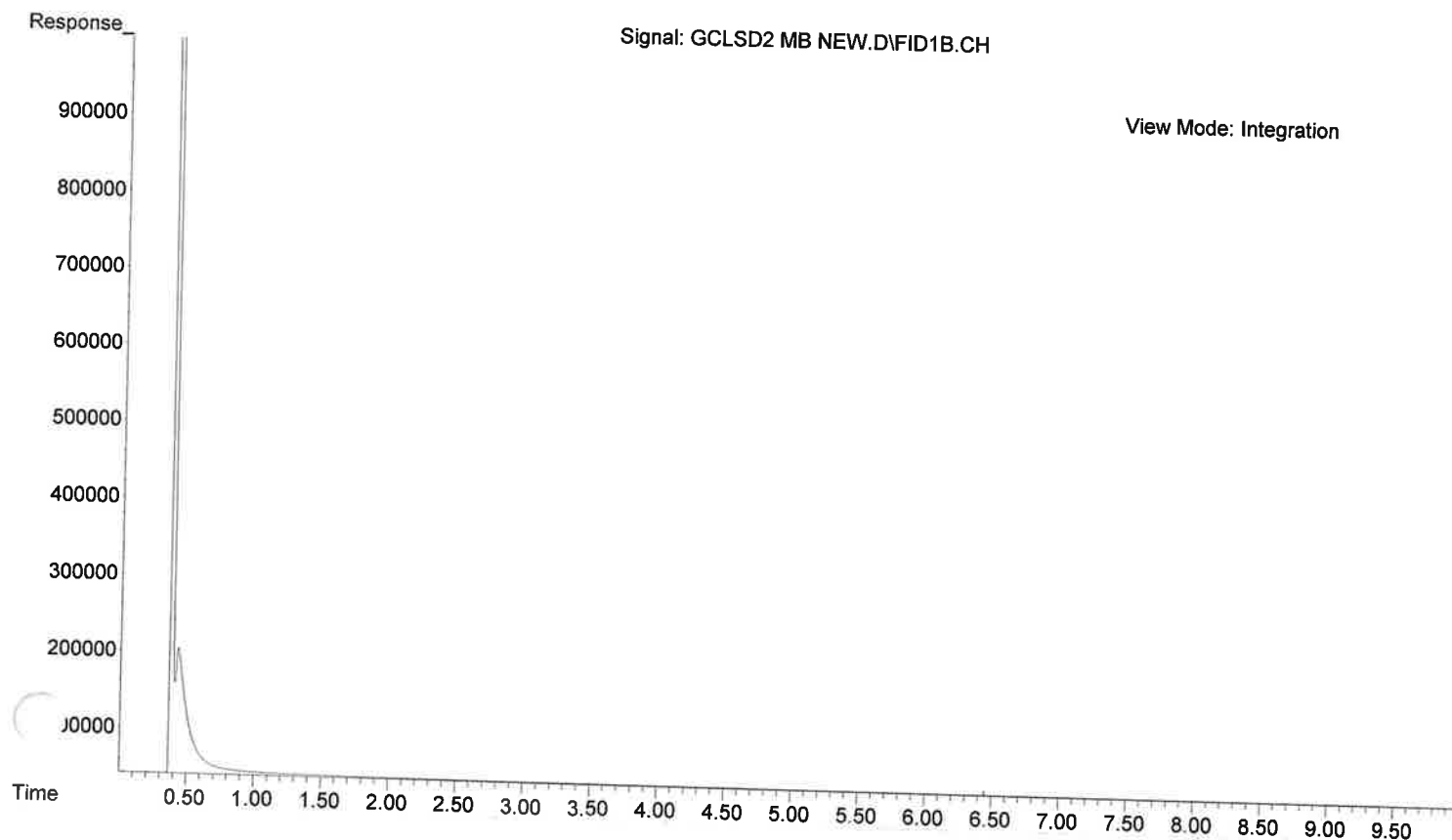
File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GCLSD2 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 20:20:37 using AcqMethod ASGC280ISO.M
Instrument : Graceland
Sample Name: METHANOL
Misc Info : LSD AND LAMPA STANDARD
Vial Number: 0

One

15

Signal: GCLSD2 MB NEW.D\FID1B.CH

View Mode: Integration

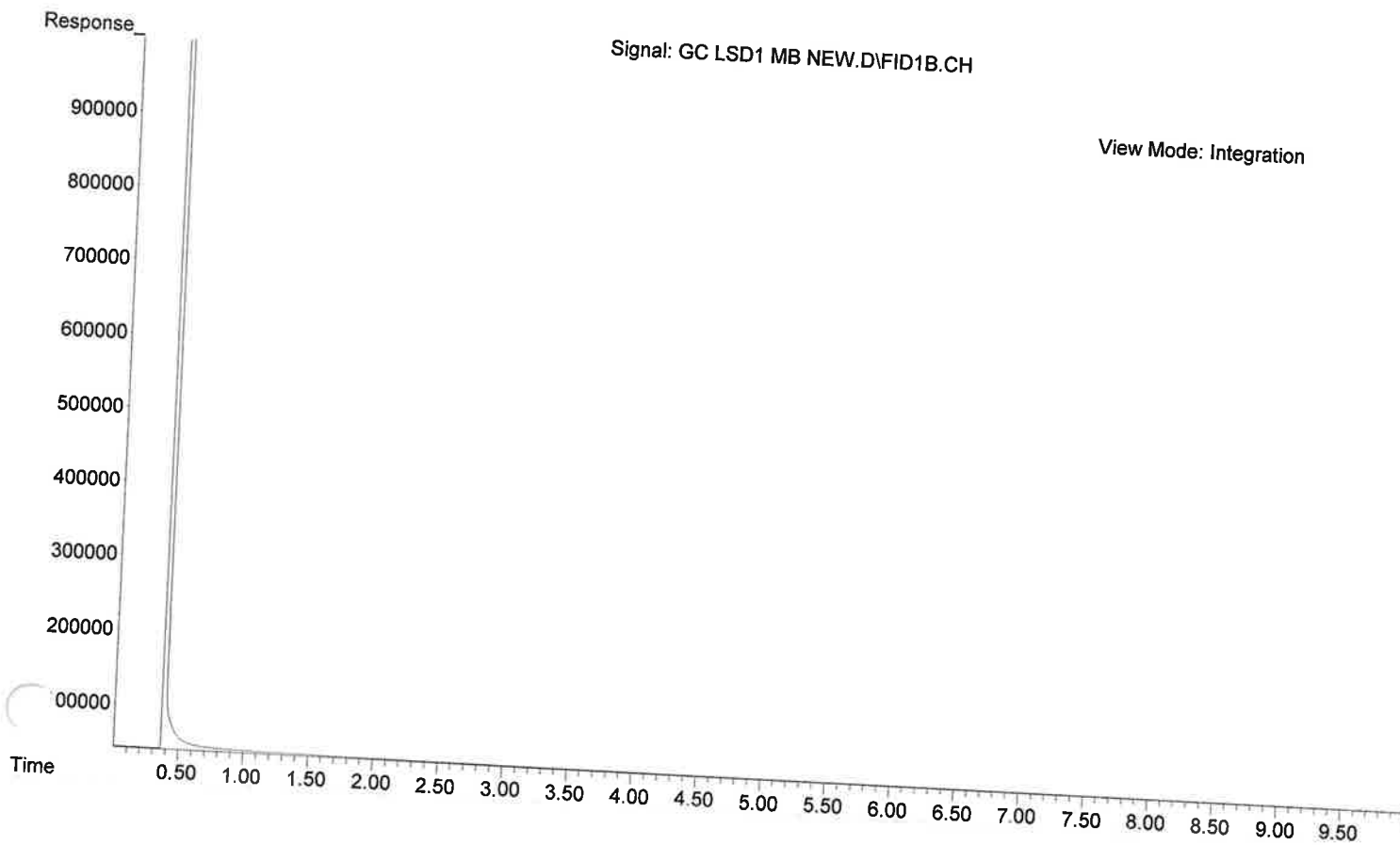


File : C:\msdchem\1\DATA\2017\WHS\6-19-2017\GC LSD1 MB NEW.D
Operator : WILLIAM STANTON
Acquired : 19-Jun-17, 19:56:30 using AcqMethod ASGC280ISO.M
Instrument : Graceland
Sample Name: METHANOL
Info : LSD AND LAMPA STANDARD
Vial Number: 0

BMC

Signal: GC LSD1 MB NEW.D\FID1B.CH

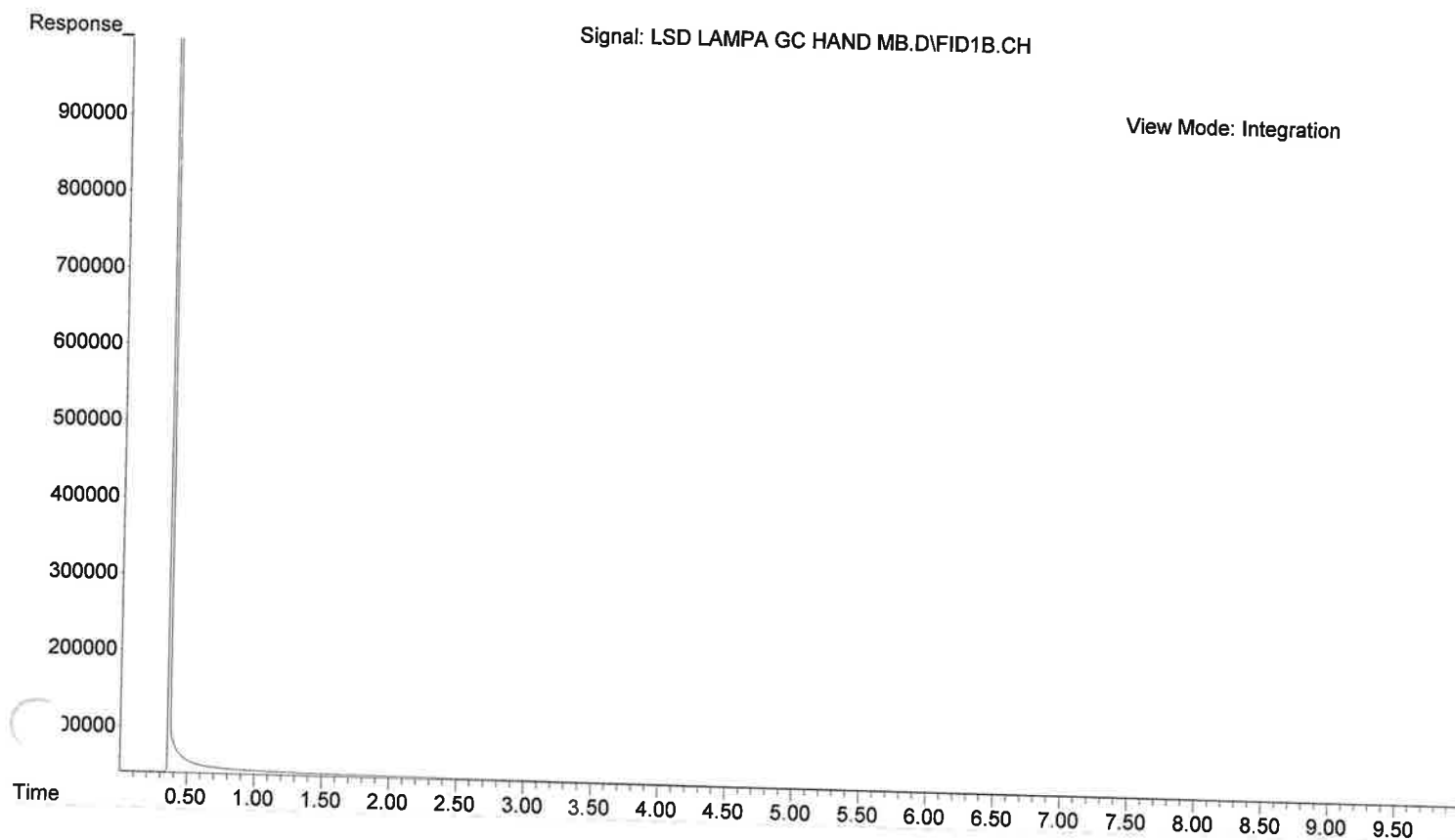
View Mode: Integration



File : C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\LSD LAMPA GC HAND
... MB.D
Operator :
Instrument : Graceland
Acquired : 27-Jun-17, 13:43:22 using AcqMethod GC280ISO.M
Sample Name: METHOD BLANK
Misc Info : METHANOL

me

13



Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\ALPRAZOLAM MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 12:58

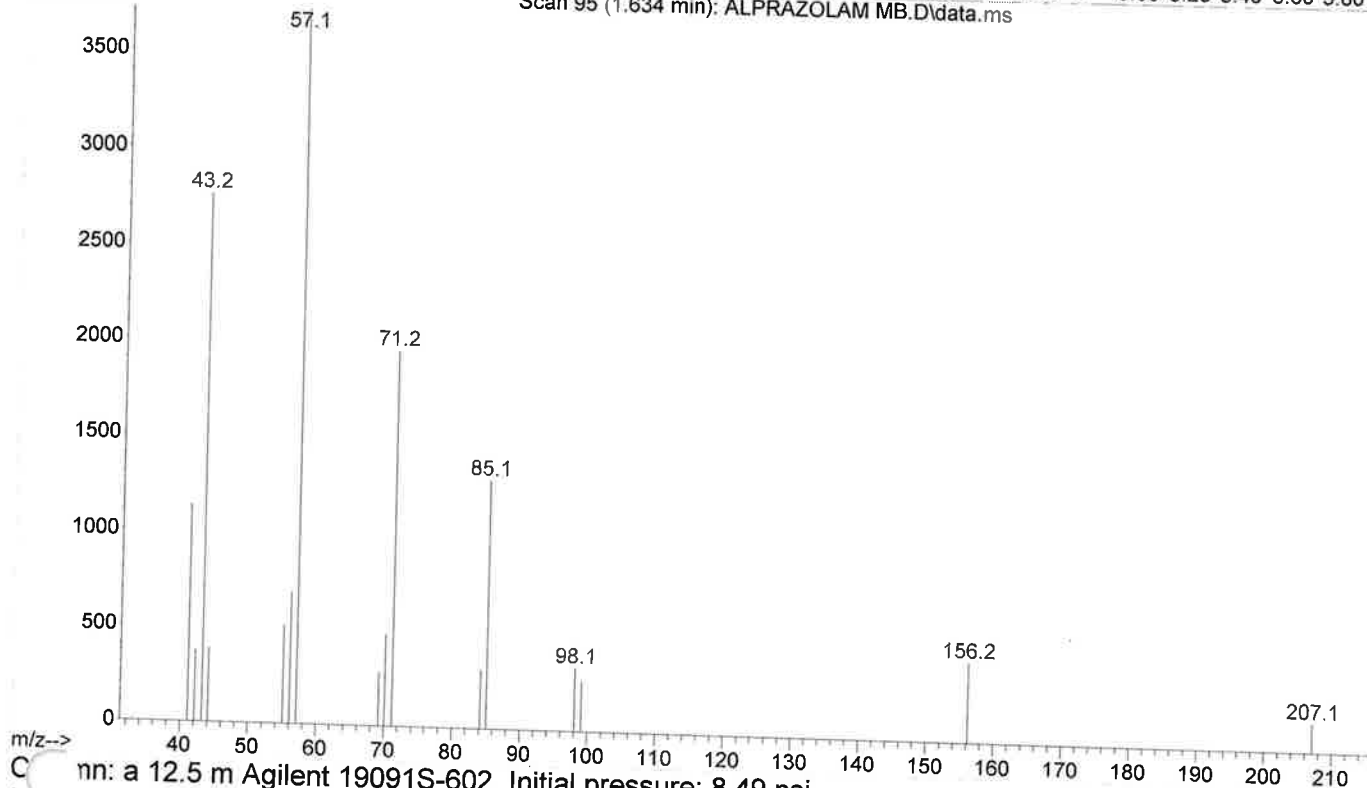
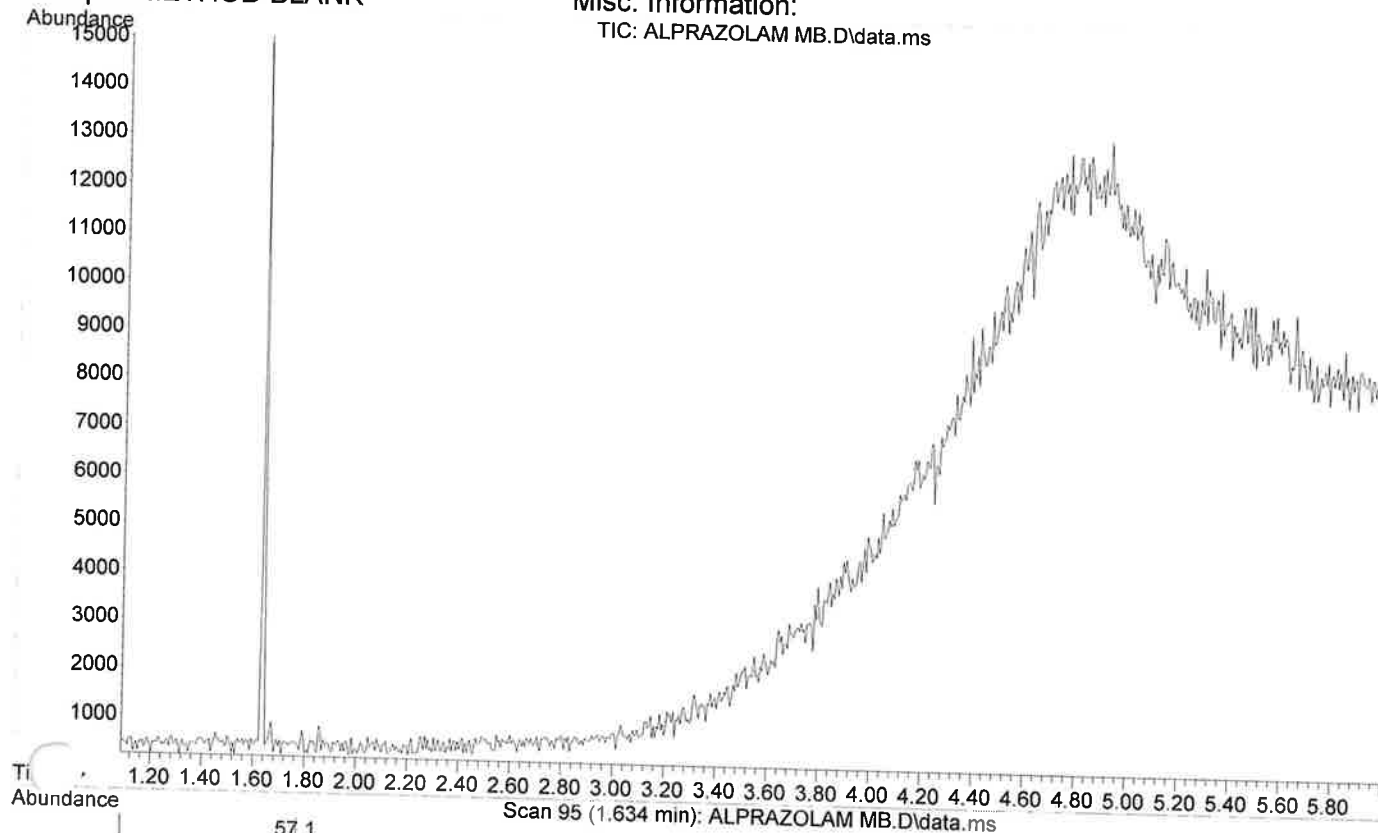
EMC

Method: C:\MSDCHEM\1\METHODS\MS100TR.M

Sample: METHOD BLANK

Misc. Information:

TIC: ALPRAZOLAM MB.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 8.49 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation; Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\ALPRAZOLAM 2 MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 26 Jun 2017 13:37

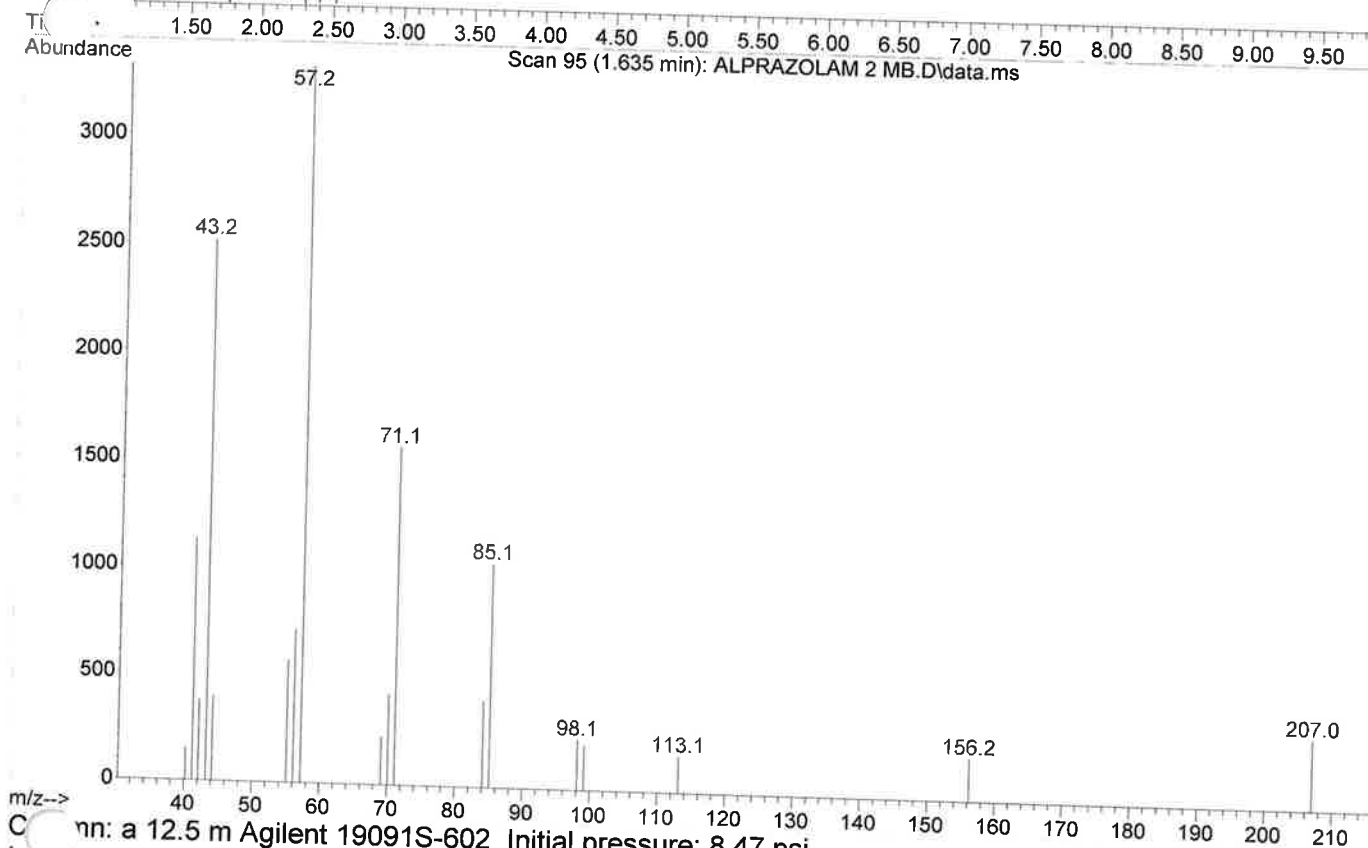
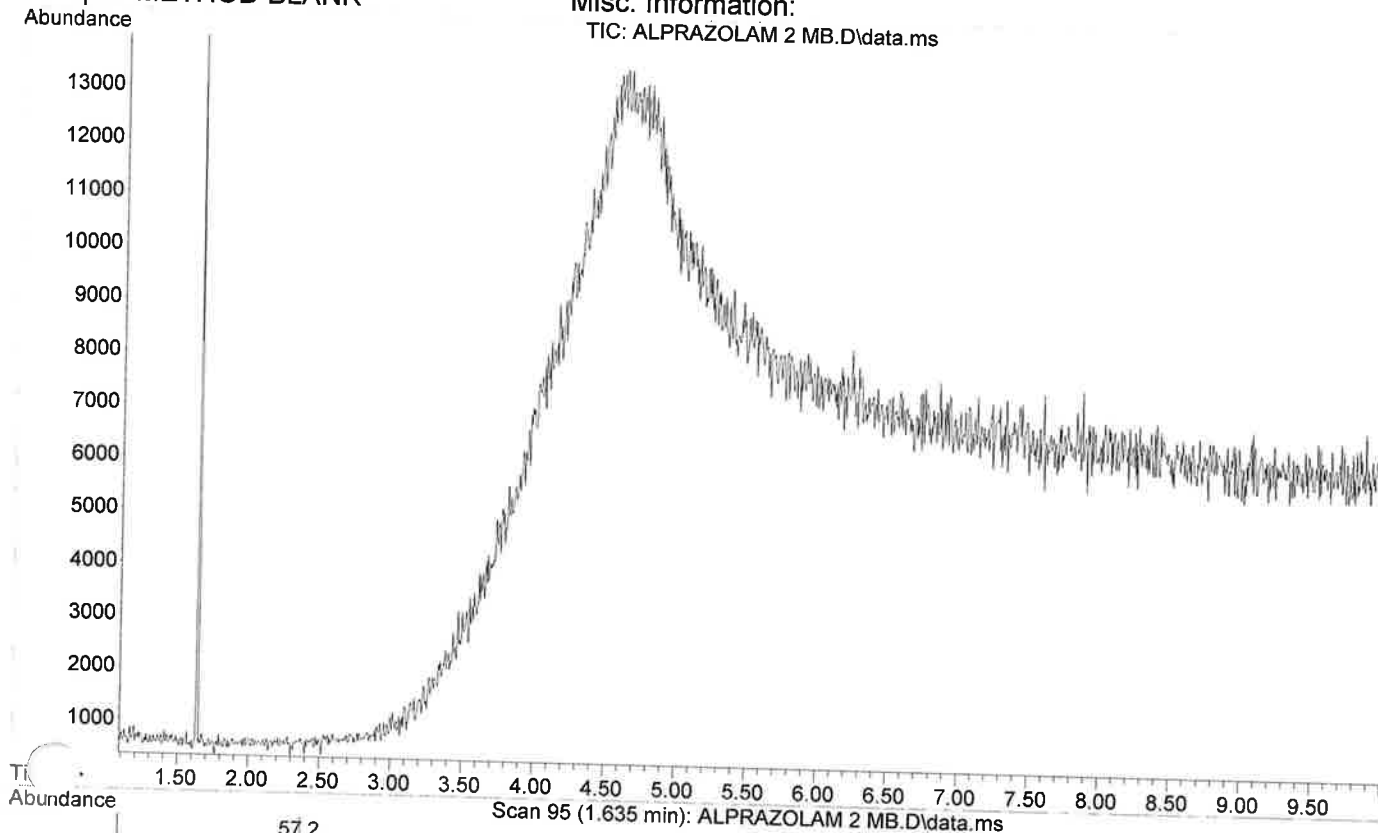
Emc

Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M

Sample: METHOD BLANK

Misc. Information:

TIC: ALPRAZOLAM 2 MB.D\data.ms



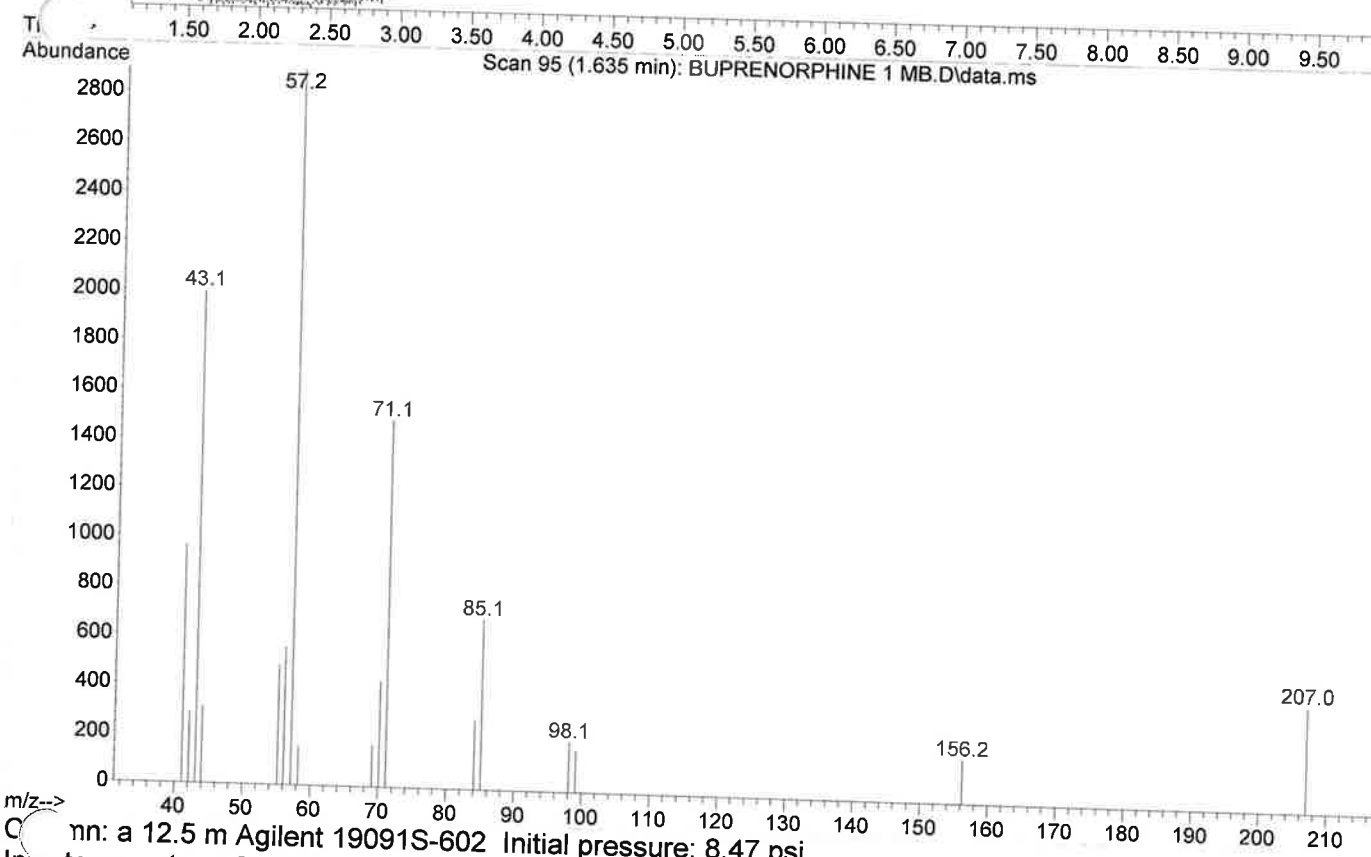
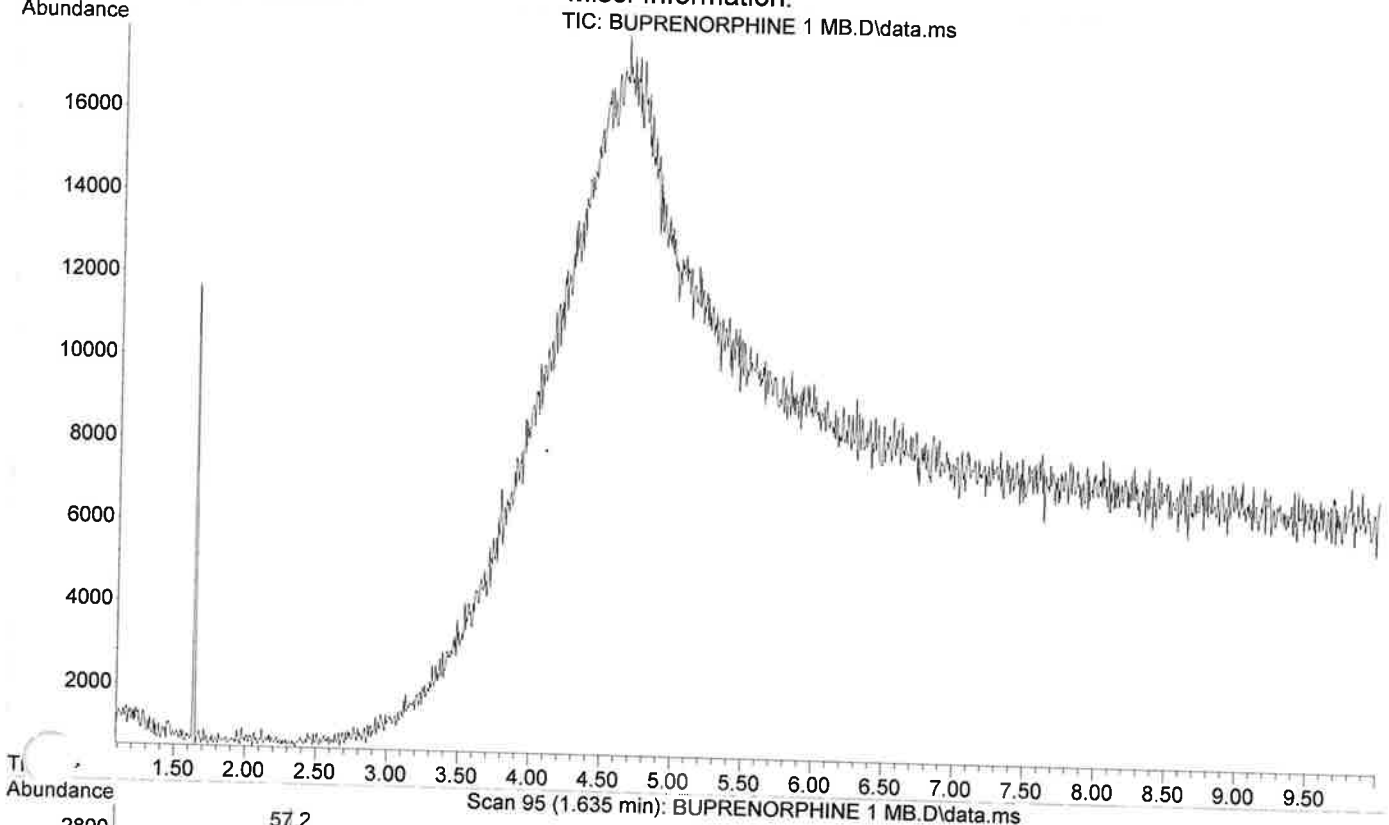
Column: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory
File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 1 MB.D
Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu
Instrument: Graceland (model: 5973N Serial number: US03960484)
Operator: on 23 Jun 2017 12:44

gmc

Method: C:\MSDCHEM\1\METHODS\MSDRUGS100.M
Sample: METHOD BLANK

Misc. Information:
TIC: BUPRENORPHINE 1 MB.D\data.ms



Instrument: a 12.5 m Agilent 19091S-602 Initial pressure: 8.47 psi
Initial temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 100 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 2 MB.D

Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

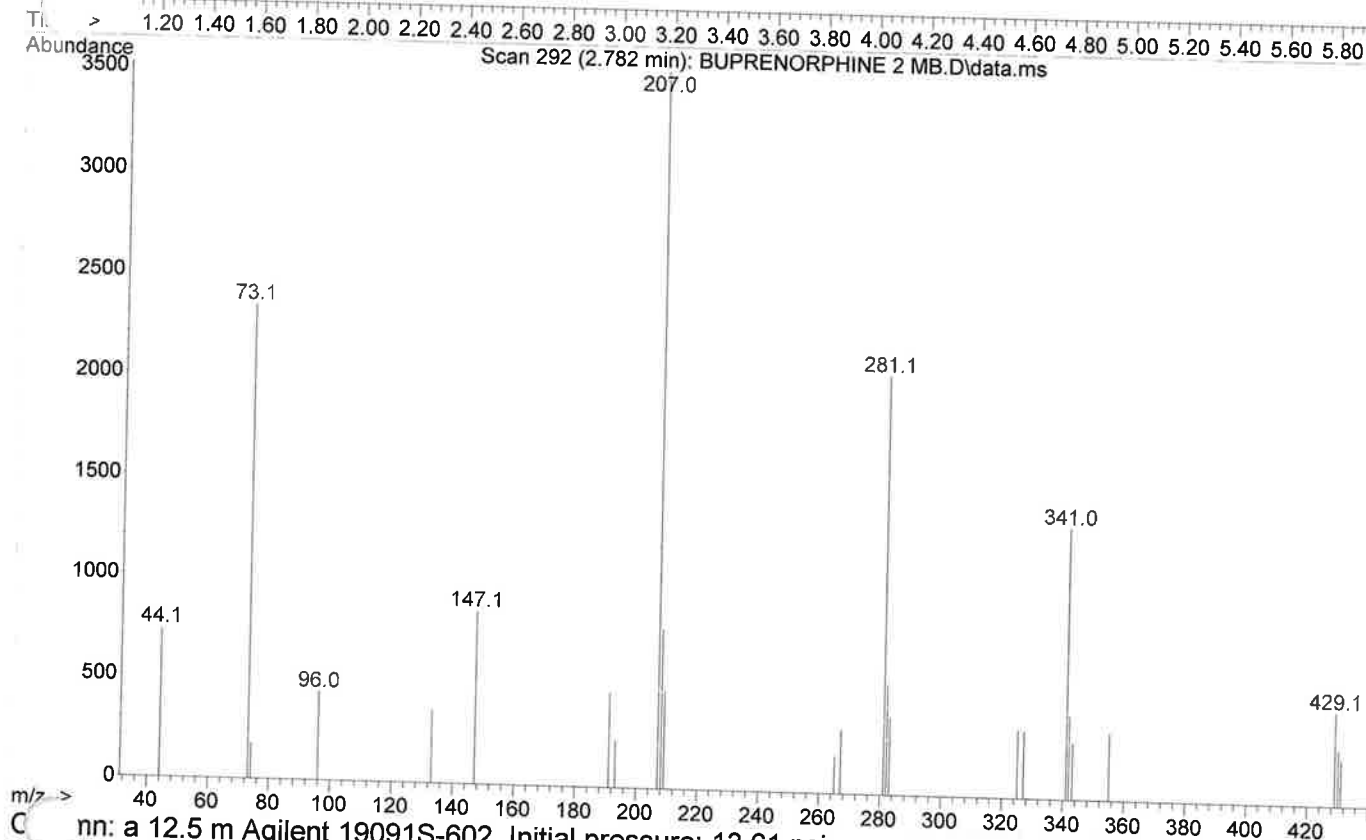
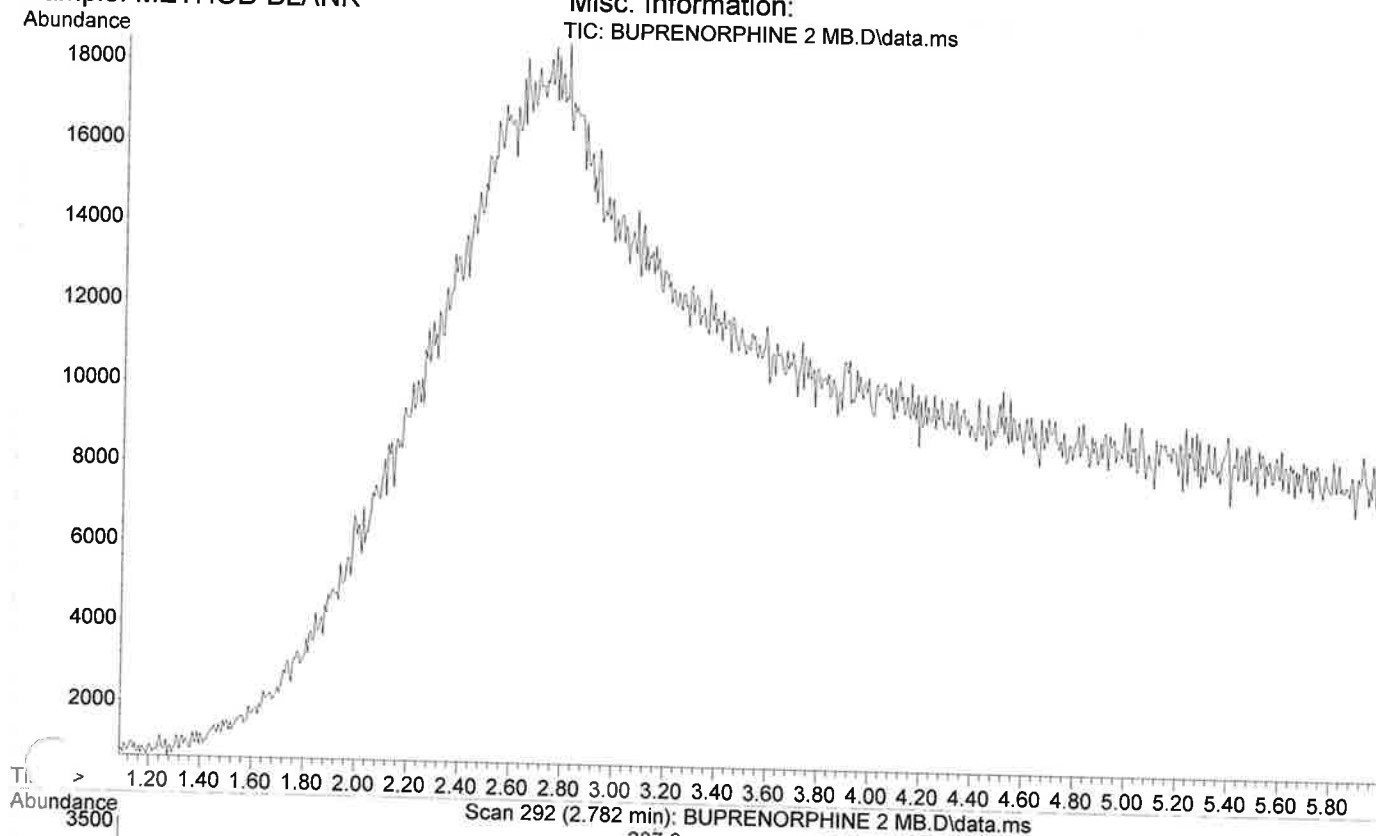
Operator: on 23 Jun 2017 13:32

Method: C:\MSDCHEM\1\METHODS\MS200TR.M

Sample: METHOD BLANK

Misc. Information:

TIC: BUPRENORPHINE 2 MB.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.61 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280

Tennessee Bureau of Investigation: Memphis Crime Laboratory

File: C:\msdchem\1\DATA\2017\WHS\HAND INJECTION\BUPRENORPHINE 3 MB.D

Tuned on 21 Jun 2017 10:08 am Scanned from 40.00 to 550.00 amu

Instrument: Graceland (model: 5973N Serial number: US03960484)

Operator: on 23 Jun 2017 14:03

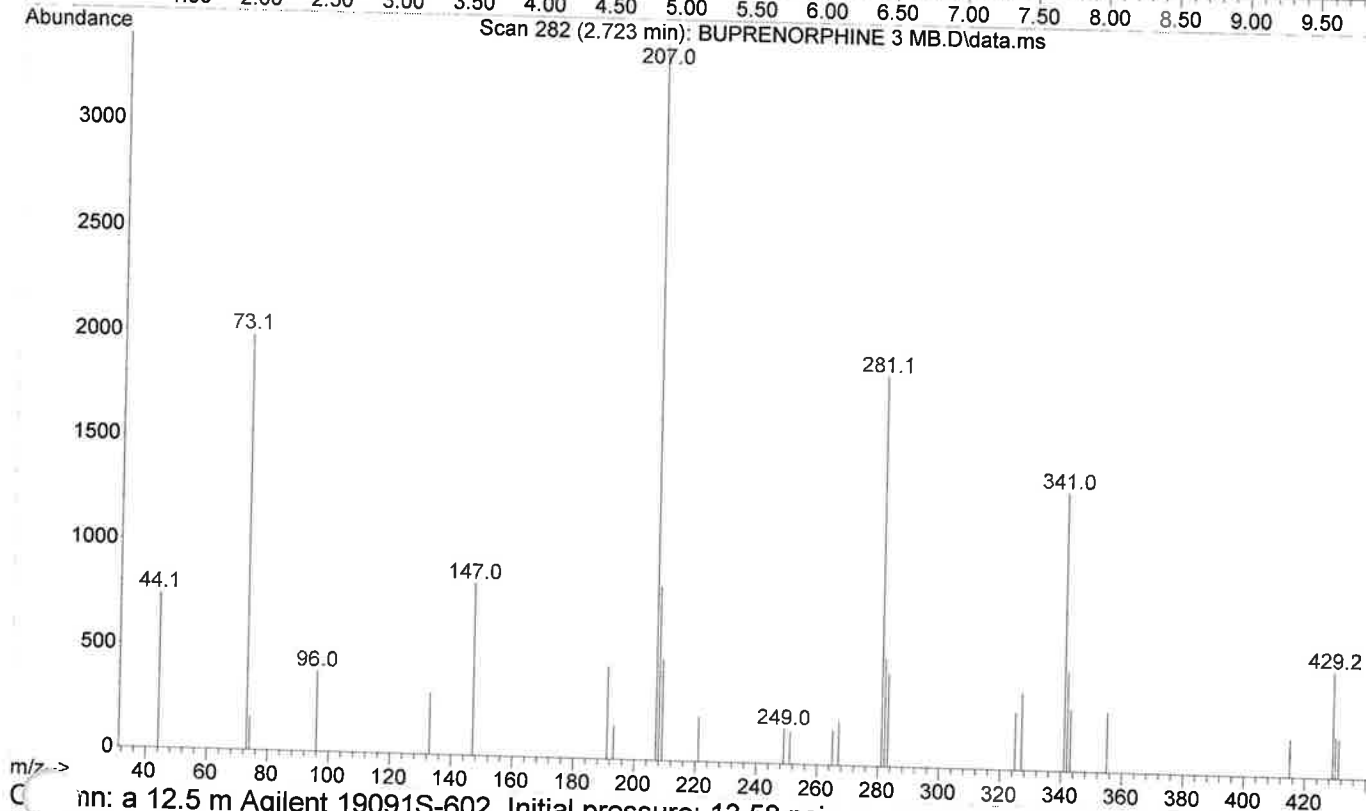
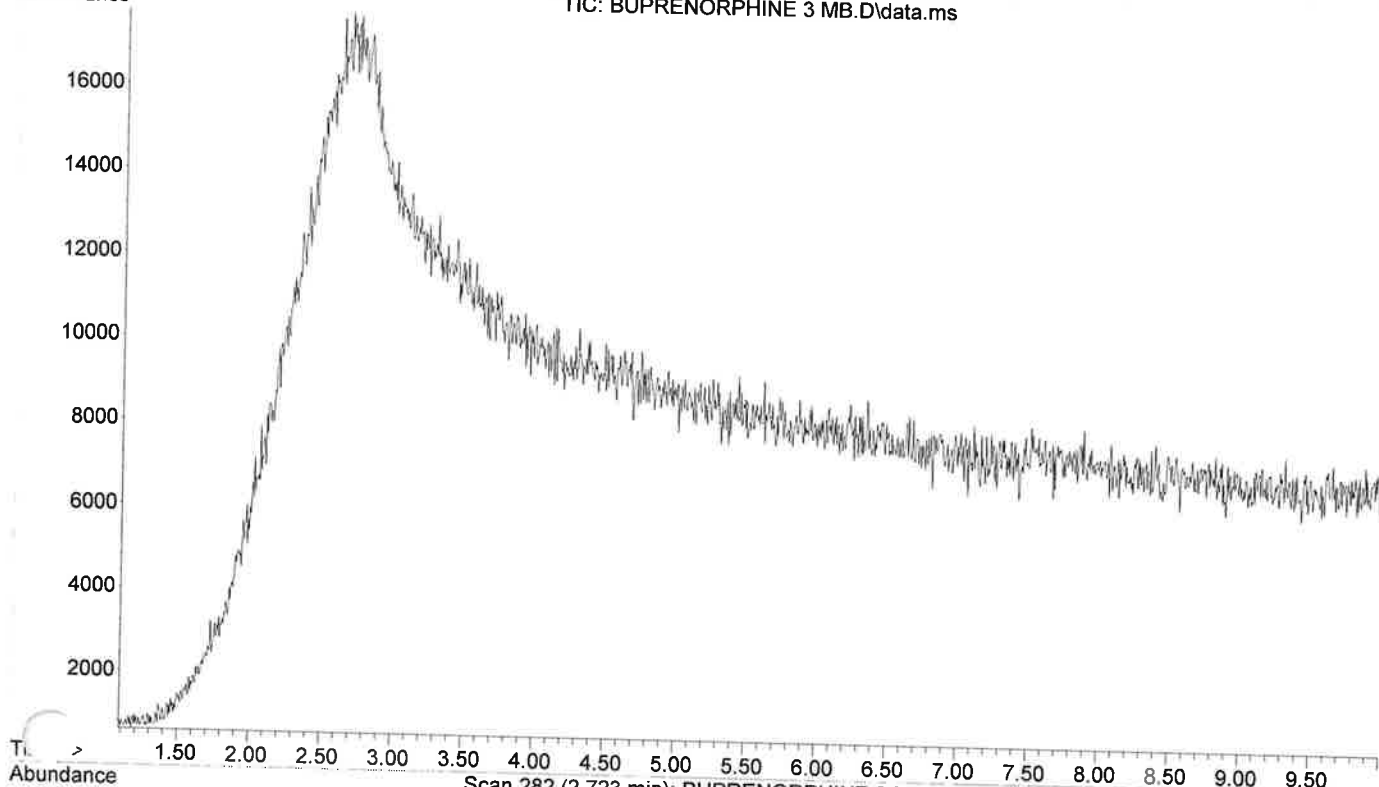
Method: C:\MSDCHEM\1\METHODS\MSDRUGS200.M

Sample: METHOD BLANK

Misc. Information:

Abundance

TIC: BUPRENORPHINE 3 MB.D\data.ms



Chromatogram: a 12.5 m Agilent 19091S-602 Initial pressure: 13.58 psi
Inlet temperature: 250 °C Split Ratio: 50:1 Transfer Line Temp: 280 °C
Initial oven temp: 200 °C held for 1.00 min Ramp: Rate Final temp
70.00 280