

Performance Check of Blossom

By: Hannah Peterson



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Agilent 5977C GC/MSD – Serial # US2312MA32

Blossom

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ABSTRACT & VALIDATION OVERVIEW

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

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The following documentation validates gas chromatograph / mass spectrometer instrumentation acquisitioned from Agilent Technologies for analytical utilization in the Forensic Chemistry Unit (FCU) of the Tennessee Bureau of Investigation Crime Laboratory in Knoxville, Tennessee. Method establishment with parametric consideration of the following parameters--system temperature (inlet, GC oven ramping and duration, transfer line, MS source, MS quad), column, pressure (inlet, column), flow rates (column, split/split-less), split ratio, liners and autosample tower specifications and adjustments--inaugurates performance verification of Agilent 8890 GC System and 5977C GC/MSD utilizing a variety of controlled substance analytical standards. These standards ranged in molecular weight and resulting retention time. Because this system is procedurally like GC/MS systems currently in use from Agilent Technologies and validated within the FCU, analysis of analytical standards in the initial method configuration guided subsequent manipulation of parameters to the final establishment of method parameters. Methods were verified as acceptable with performance data of total ion chromatographs, spectral analysis of the mass spectrometer, and chromatographic retention time. Also, during the entire process, inlet maintenance, autotune (atune), and analysis of the calibration standard mix (pethidine, cocaine and hydrocodone) for the GCMS were routinely performed to monitor and assess system functionality. The concluding recommendation from the review of method parameters, functionality, data of specified analytical standards for specified GC and MS methods is for this Agilent 8890 GC System and 5977C GC/MSD, Blossom, to be utilized for the analysis of controlled substances in the Forensic Chemistry Unit.

INSTRUMENT AND COMPONENT SPECIFICATIONS

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

Blossom

GAS CHROMATOGRAPH

Agilent 8890 GC System (G3540A)

Serial # US2320A036

MASS SPECTROMETER

Agilent 5977B GC/MSD (G7077C)

Serial # US2312MA32

AUTOSAMPLER TRAY

Agilent G4514A

Serial # R023107019

AUTOSAMPLER TOWERS

MS: Agilent 4513A

Serial # R023025122

GC: Agilent 4513A

Serial # R023035002

COLUMN

MS: Agilent J&W

Part #128-0112, 12 meters, 0.200 mm diameter, 0.33 μ film thickness

COMPUTER OPERATING SYSTEM

Device specifications:

Model name	HP Z2 SFF G9 Workstation
Device name	DESKTOP-55FC03R
Processor	Intel® Core™ i512500 CPU @ 3.10 GHz
Installed RAM	16.0 GB (15.7 GB usable)
Device ID	696EAE01-7B6D-4082-9B91-5A0E5507A9E5
Product ID	00335-62799-01072-AAOEM
System type	64-bit operating system, x64-based

Windows Specifications:

Edition	Windows 10 Pro
Version	21H2
Installed on	5/5/23
OS build	22000.194

Productivity tools:

Enhanced ChemStation

MSD ChemStation F.01.03.2365

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Agilent MassHunter Workstation

GC/MS Data Acquisition

Version 10.2

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PURPOSE OF VALIDATION

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

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Gas Chromatograph / Mass Spectrometry is critically relied upon within the Forensic Chemistry Unit (FCU) for the analysis of controlled substances. Due to adulterants and multiple controlled substances within samples, chromatographic methodology is a necessity for separation, isolation and identification of these compounds. Historically, Agilent Technologies GC/MS systems have been utilized in the FCU for the past twenty-two years with ChemStation software that is familiar across each 6890/5973, 6890N/5973 inert, 6890N/5975, 7890A/5975C 7890B/5977B and 8890B/5977B GC/MS systems. Therefore, the purpose of this study is to establish method parameters for the gas chromatograph/mass spectrometer using an autosample mode of analysis. The methods will then be tested for function and practicality by injecting a variety of analytical standards to demonstrate detection at varying oven temperature initial set points and duration with ramped and isothermal temperature end points.

TRAINING REQUIREMENTS

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

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The Agilent 8890 GC System and Agilent 5977C GC/MSD performs in concert with ChemStation and MassHunter engine and data analysis software consistent with that of Agilent's 6890/5973, 6890N/5973, 6890N/5975, 7890A/5975C, 7890/5977B and 8890/5977B. Each analyst within the Forensic Chemistry Unit has training and familiarity navigating this system; therefore, no special training is necessary for utilizing this system for analytical casework.

VALIDATION PROCEDURE

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

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Instrument Setup

The initial instrument setup and check-out procedure was performed by Agilent technical representative Christian Randall. All electrical requirements and performance gases (helium, hydrogen and air) were in place as specified prior to installation.

Maintenance

Throughout the validation procedure, regular inlet maintenance, autotunes, and analysis of the GC/MS Calibration Standard Mix will be performed. Note: this will not necessarily be performed on a weekly basis but in conjunction with time devoted to the development, testing and establishment of the methods.

Establishing Method Parameters

Utilizing the ChemStation software, method construction begins with loading the system's default.m method and referencing established TBI FCU GC/MS methods to first construct DRUG1. From the DRUG1 method, all parameters of the remaining methods will be constructed, named and saved.

General Screening Methods – The GC/MS Calibration Standard Mix (pethidine, cocaine and hydrocodone) and P-MOX standard (phentermine, methamphetamine, xylazine, 4-ANPP, Heroin, para-Fluorofentanyl, and fentanyl) were analyzed on all general screening methods (DRUG1, STERIOD, XLDRUGS). Additional standards spanning the range of screening analysis were analyzed for the DRUG1 method.

Extended Analysis Methods – Standards of substances known to come out later in extended analysis methods were analyzed on the STERIOD and XLDRUGS method. For STERIOD:

testosterone propionate, isotornitazene, and buprenorphine. For XLDRUGS: testosterone propionate and sildenafil.

Drug Specific Methods – Two methods were created for specific drugs/drug classes. Standards that correlate to these methods were analyzed.

For OPIATE: the P-MOX standard mix containing Phentermine, Methamphetamine, Xylazine, 4-ANPP, Heroin, para-Fluorofentanyl, and Fentanyl

For GHB: the GHB standard

Increased Sensitivity Method – A method was created for increased sensitivity as needed for weak or trace amount samples. A diluted version of the P-MOX standard was analyzed on the DRUG1LC method. The same diluted standard was analyzed on the DRUG1 method for comparison.

Evaluation

Acquired data from the aforementioned methods were considered in the establishment of methods, ensuring detection, chromatographic quality, total ion chromatograph and ion abundance as well as baseline separation of standard mixtures such as the GC/MS Calibration Standard Mix (pethidine, cocaine, hydrocodone), the GC/IR Standard Mix (amphetamine, methamphetamine and phentermine) and the P-MOX standard (phentermine, methamphetamine, xylazine, 4-ANPP, heroin, fentanyl, para-Fluorofentanyl).

ANALYTICAL STANDARD SPECIFICATIONS

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

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STANDARDS ANALYZED

GC / MS Calibration Standard Mix

Pethidine: S.B. Penick Lot# 413 NMN-027

Cocaine: Sigma Lot# 69H1240

Hydrocodone: Cayman Chemical Lot # 0524561-22

Chloroform: ACROS Fisher Lot #B0542909B

w/ DI H2O + base cap (NH4OH BDH Lot# 2014042806)

Made: 5/19/23 by LMM

Expires: 5/19/24

GC / IR Standard Mix

Amphetamine: Sigma Lot#: 79H0603

Phentermine: Sigma Lot# 074K1059

Methamphetamine: Sigma Lot# 50H02161

Chloroform: ACROS Fisher Lot # B0542909B Bottle ¼

w/ DI H2O + base cap (NH4OH BDH Lot # 2014061276)

Made: 2/2/23 by ZJ

Expires: 2/1/24

P-MOX Standard

Phentermine: Sigma Lot # 074K1059

Methamphetamine: Sigma Lot # 071K1580

Xylazine: Cayman Lot # 0471462-19

4-ANPP: Cayman Lot# 0540831-18

Fentanyl Citrate: Cayman Lot # 0549959-44

Heroin: Cayman Lot# 0559235-10

P-Fluorofentanyl: Cayman Lot# 0541563-43

Chloroform: ACROS Fisher B0542909B Bottle ¼

w/ DI H₂O + base cap (NH₄OH BDH Lot # 3014-500MLP)

Made: 6/13/23 by NAH

Expires: 6/12/24

Alprazolam

Sigma Lot # 117K4017

Methanol: Fisher Lot # 198477 Bottle ¾

Made: 3/25/22 by ZJ

Expires: 3/25/23

Re-verified: 3/3/23

Expires: 3/3/24

Buprenorphine

Sigma Lot # SLBN0684V

Methanol: Fisher 197710 Bottle 2/4

Made: 9/8/22 by LMM

Expires: 9/8/23

GHB

Sigma Lot # 089H3410

Methanol: Fisher Lot # 217364 Bottle 4/4

Made: 6/14/23 by CNS

Expires: 6/14/24

Isotonitazene

Sigma Lot # 0586760-21

Methanol: Fisher Lot # 217364 Bottle 4/4

Made: 6/1/23 by ZJ

Expires: 6/1/24

Sildenafil

Sigma Lot # SLBN0684V

Methanol: Fisher 197710 Bottle 2/4

Made: 9/8/22 by LMM

Expires: 9/8/23

Testosterone Propionate

Sigma Lot# 034K0695

Methanol: Fisher 223204

Made: 5/24/23 by CES

Expires: 5/24/24

METHODS AND STANDARDS ANALYZED

Agilent 8890 GC System – Serial # US2320A036

Agilent 5977C GC/MSD – Serial # US2312MA32

Blossom

MASS SPEC – AUTO SAMPLE INJECTION

DRUG1 GC/MS CALIBRATION STANDARD MIX

GC/IR Standard Mix

P-MOX Standard

ALPRAZOLAM

BUPRENORPHINE

ISOTONITAZENE

DRUG1LC P-MOX Standard (diluted)

GHB GHB

OPIATE P-MOX Standard

STERIOD GC/MS CALIBRATION STANDARD MIX

P-MOX Standard

BUPRENORPHINE

ISOTONITAZENE

TESTOSTERONE PROPIONATE

XLDRUGS GC/MS CALIBRATION STANDARD MIX

P-MOX Standard

SILDENAFIL

TESTOSTERONE PROPIONATE

METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\DRUG1.M

Method Sections To Run:

(X) Save Copy of Method With Data
() Instrument Control Pre-Run Cmd/Macro =
() Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
() Data Analysis
() Instrument Control Post-Run Cmd/Macro =
() Data Analysis Post-Run Cmd/Macro =

Method Comments:
Profile method

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\DRUG1.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	2.00
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
2.00	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
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Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\DRUG1.M
Thu Aug 24 15:37:02 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
GC Summary
Run Time 14.667 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 80 °C
Hold Time 1 min
Post Run 0 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 7 min

Equilibration Time 1 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 1
Sample Wash Volume 8 µL
Sample Pumps 1
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 3000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 3000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 2 sec
Sample Depth Disabled
Injection Type Standard
L1 Airgap 0.2 µL

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 12 psi
Septum Purge Flow	On 73.122 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	55 :1
Liner	68.87 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	On 3 mL/min
Pre-Run Flow Test	Off
Liner	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.2522 mL/min
Post Run	1 mL/min
Column Information	Agilent 128-0112
Description	DB-1ms

Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	80 °C
Pressure	12 psi
Flow	1.2522 mL/min
Average Velocity	65.404 cm/sec
Holdup Time	0.30579 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None
Signal #8:	
Description	None

TUNE PARAMETERS for SN: US2312MA32

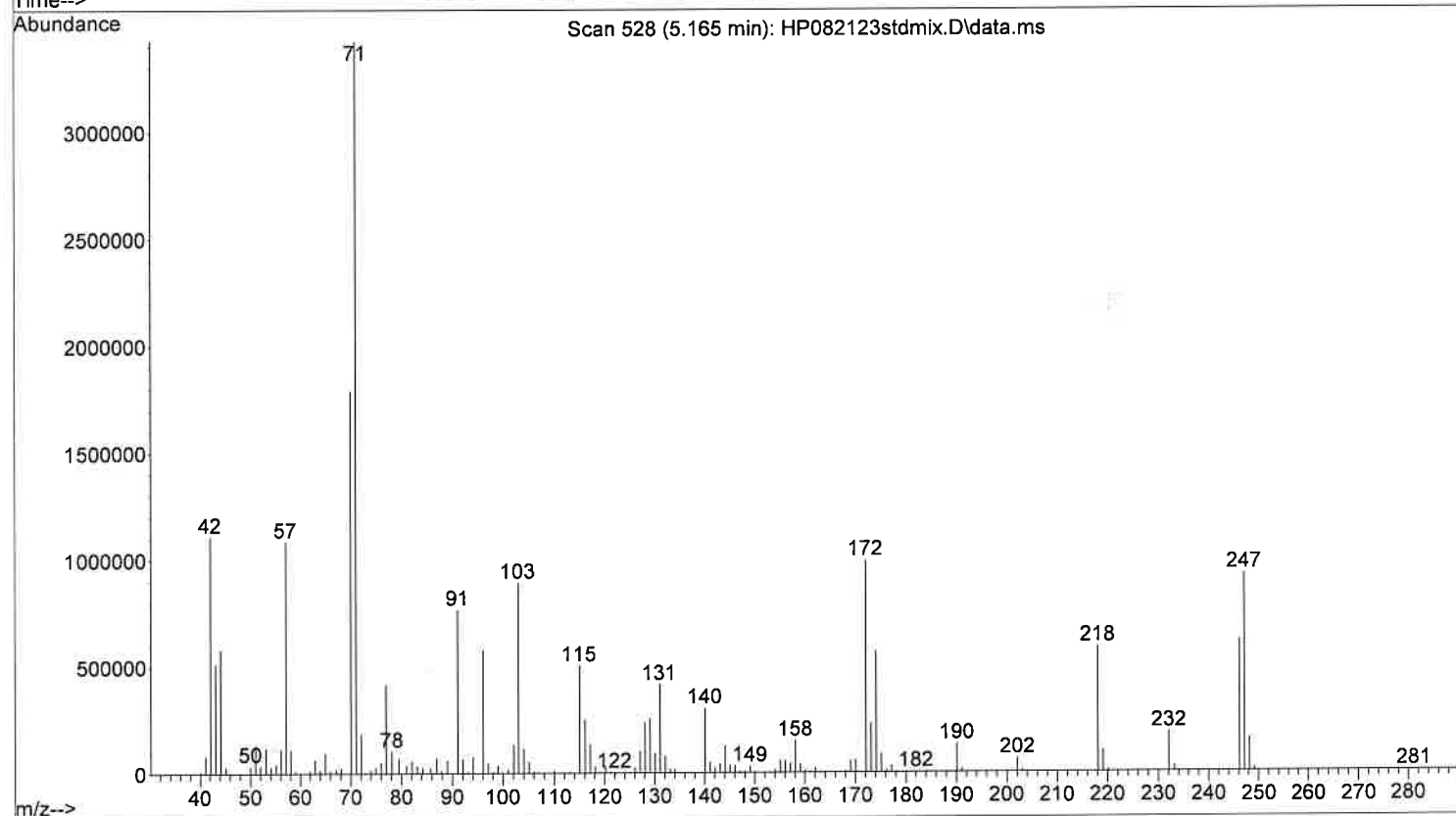
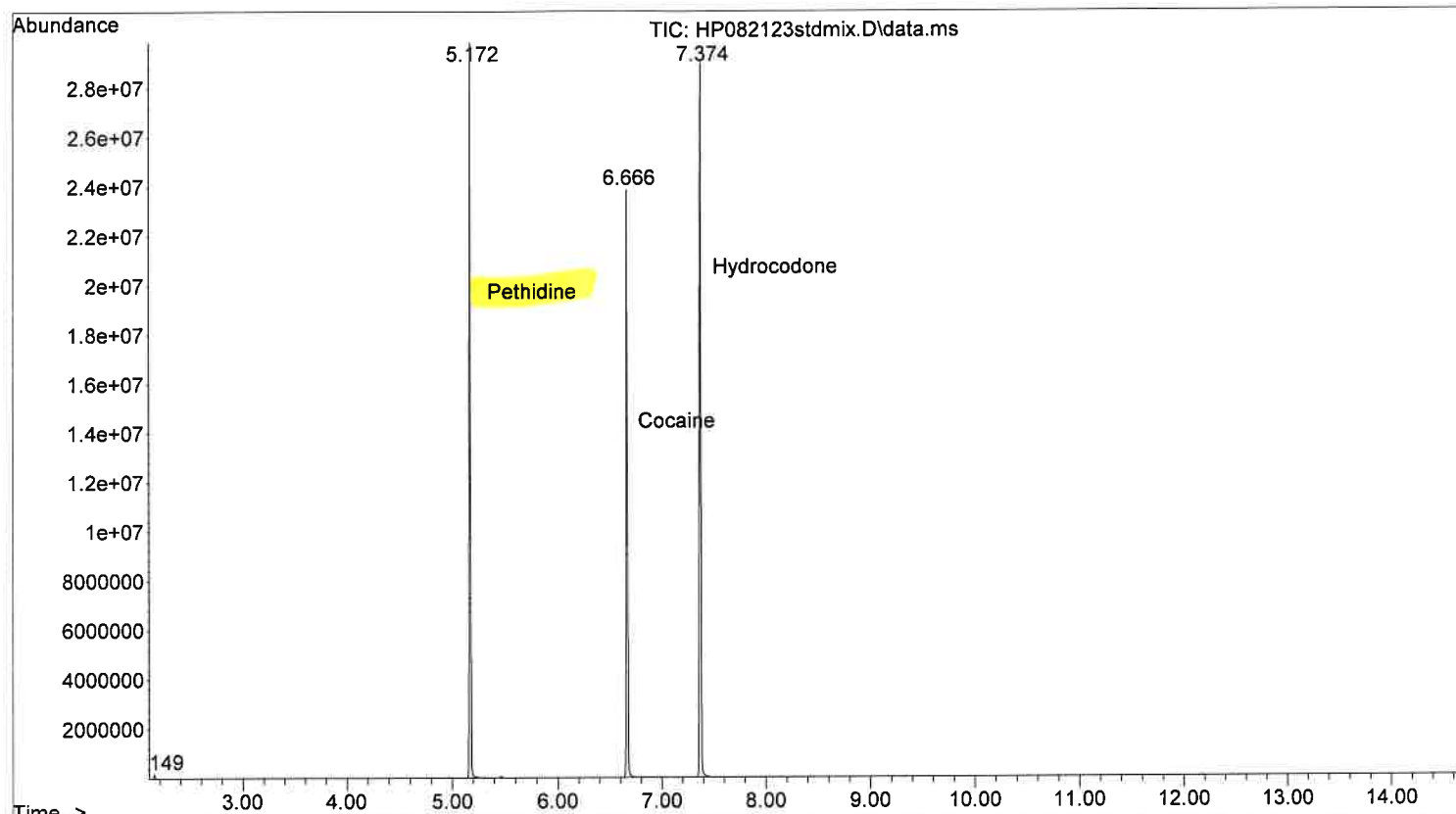
Trace Ion Detection is OFF.

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70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
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-24.000	:	MASSOFFSET	

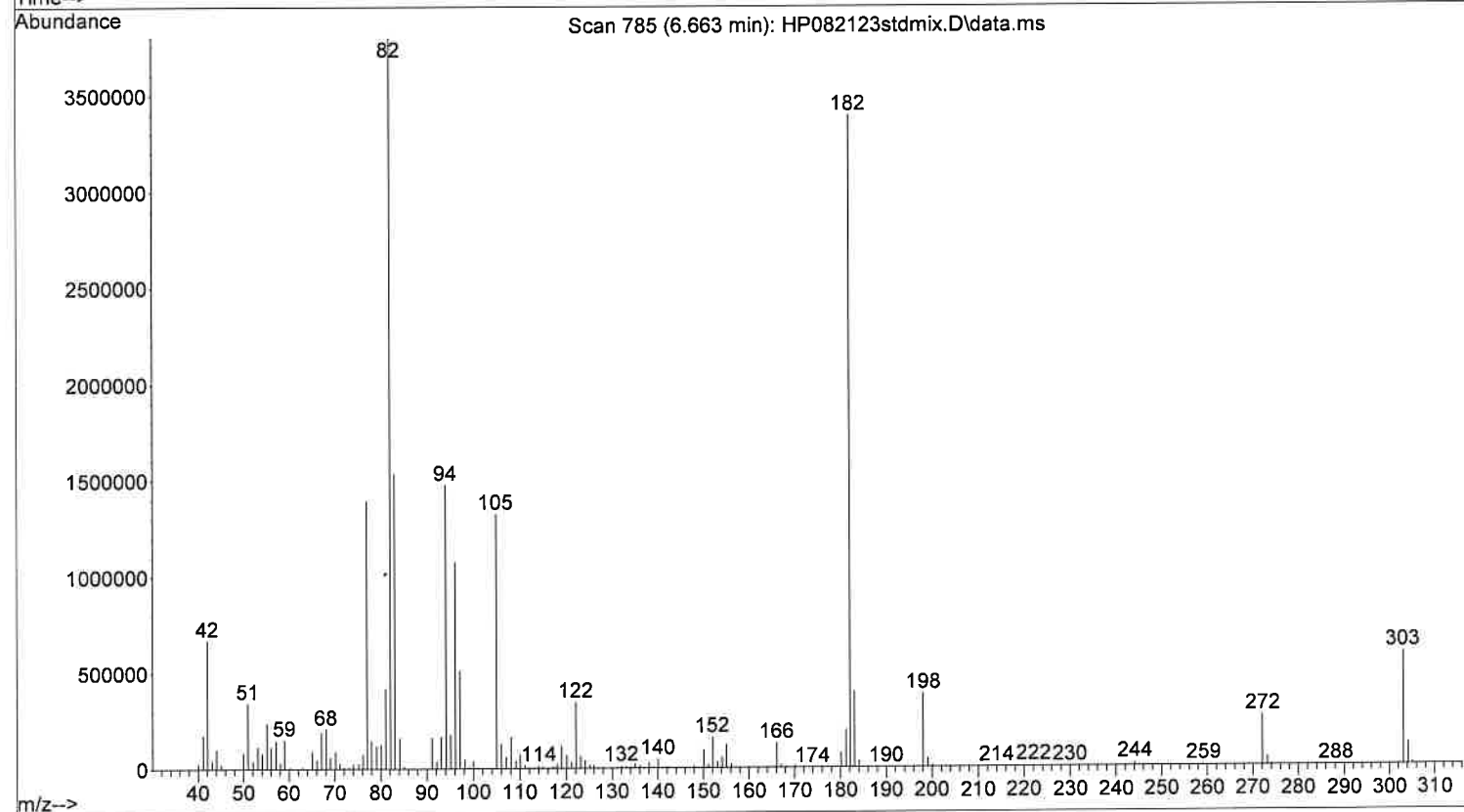
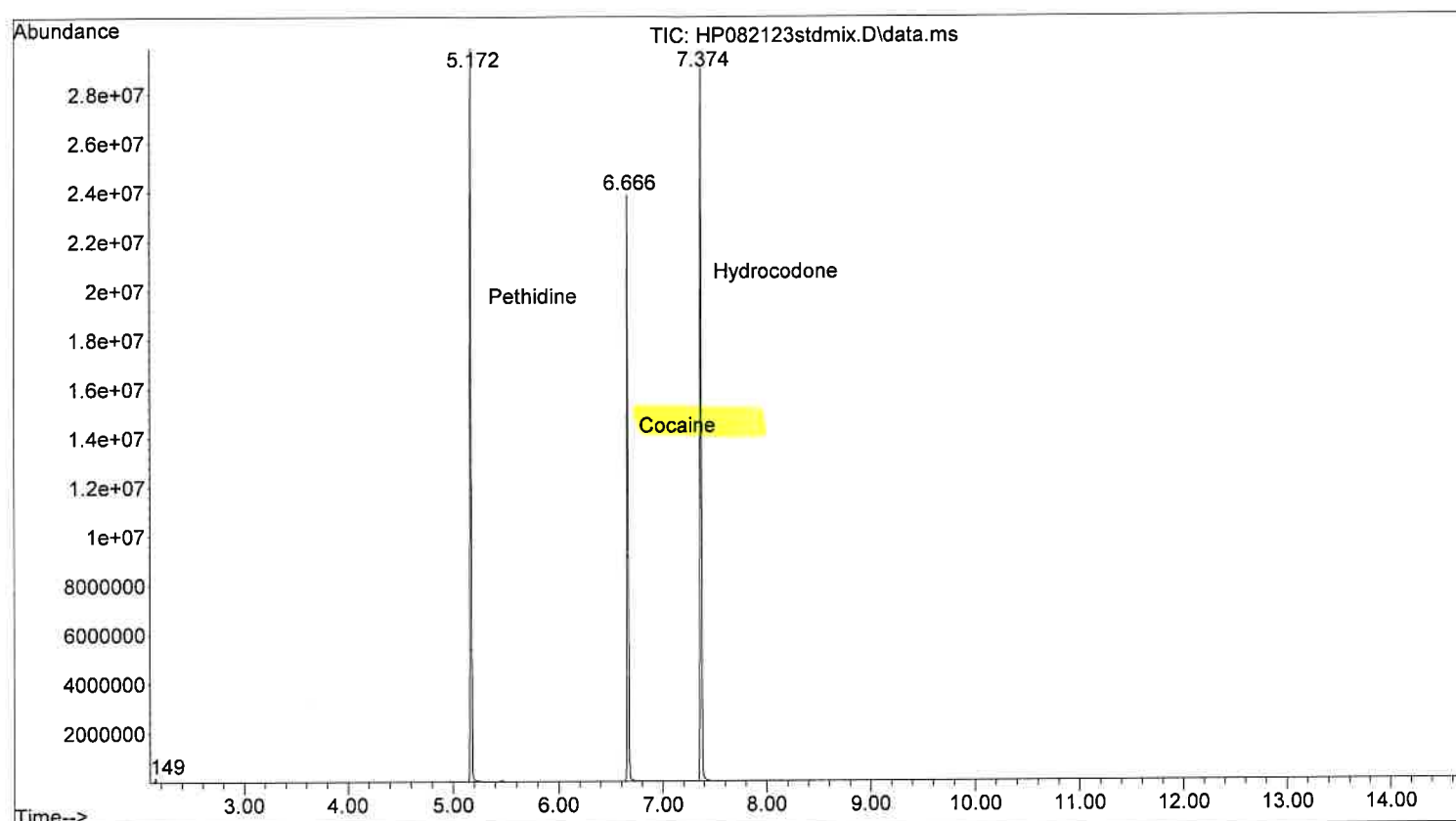
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

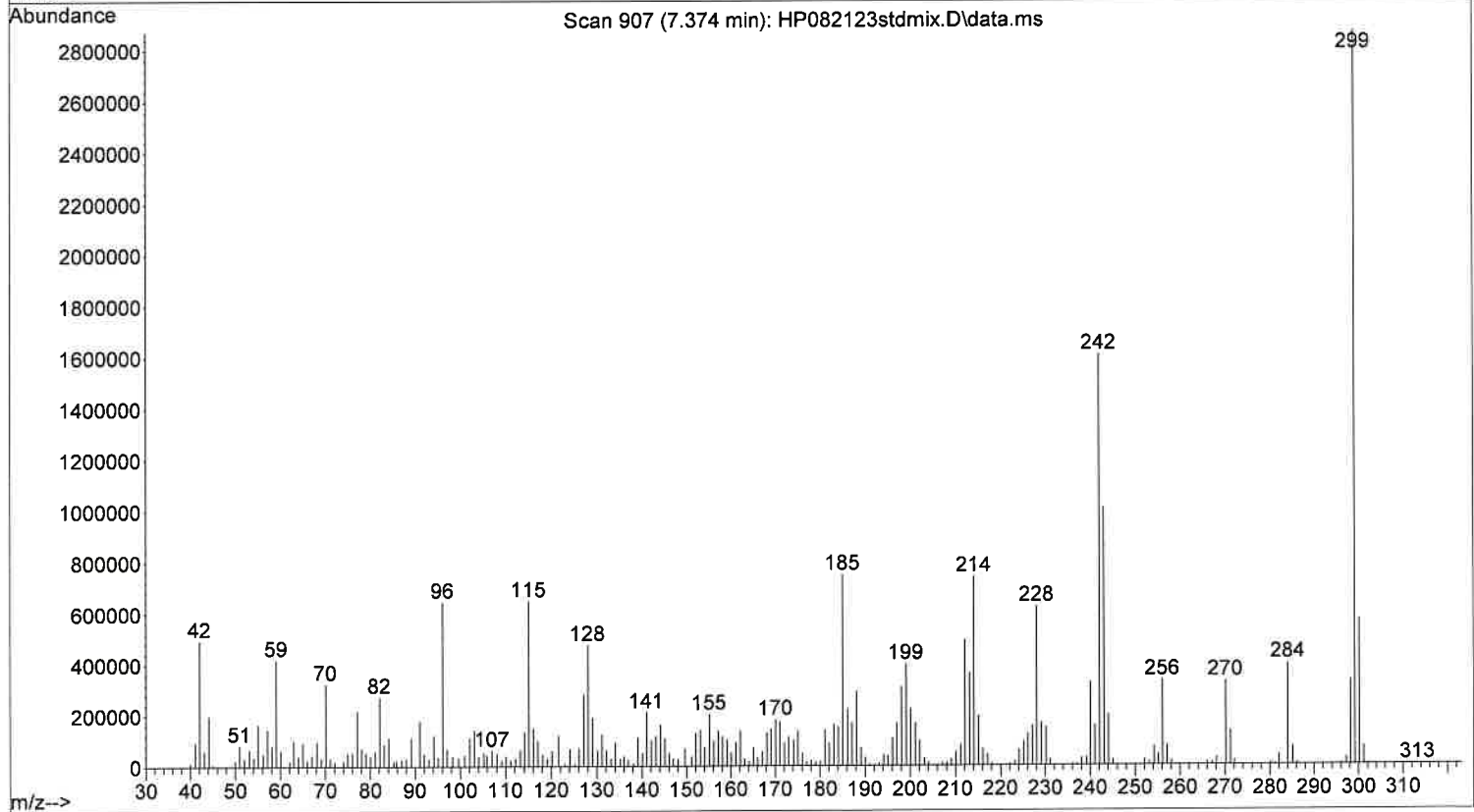
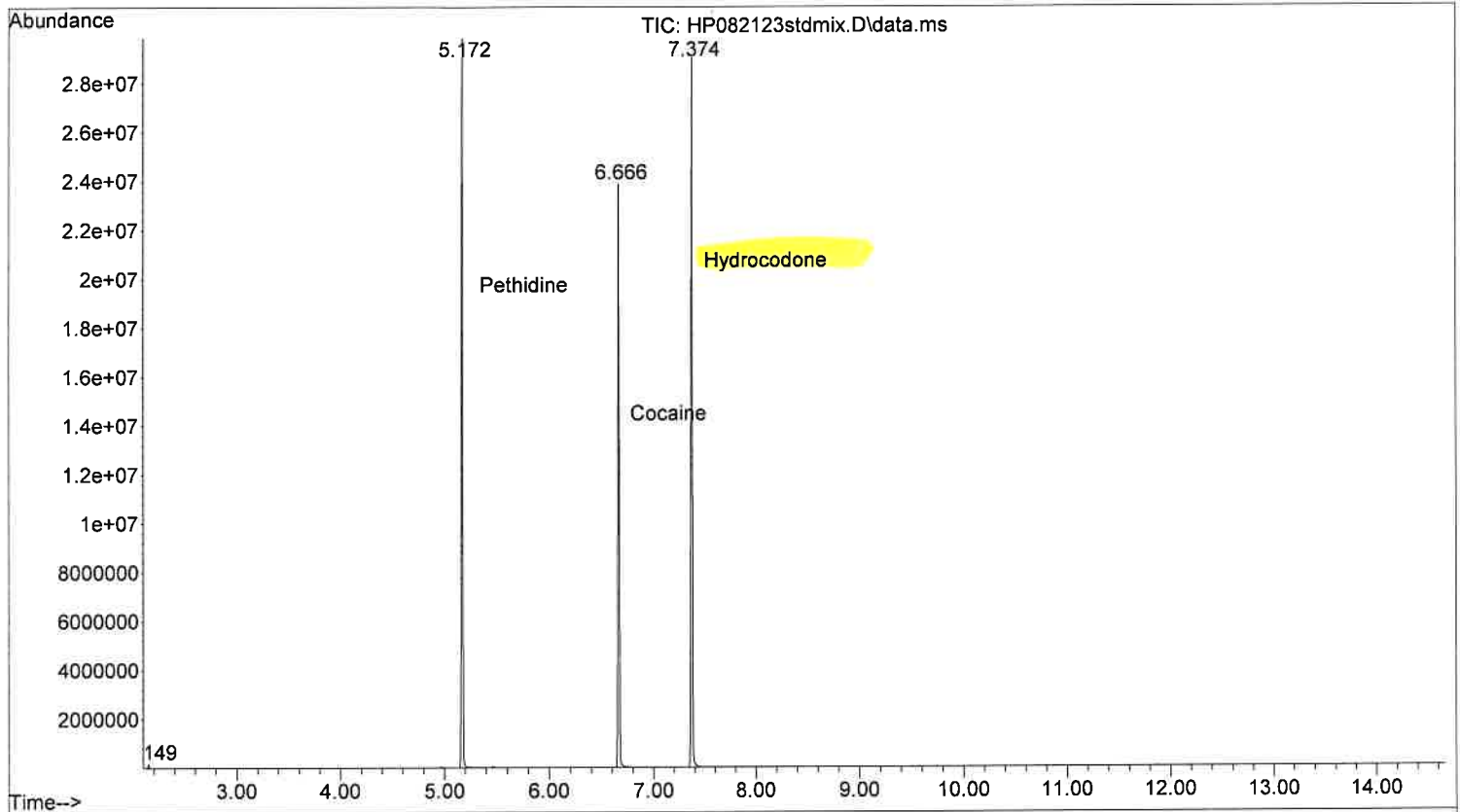
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Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 12



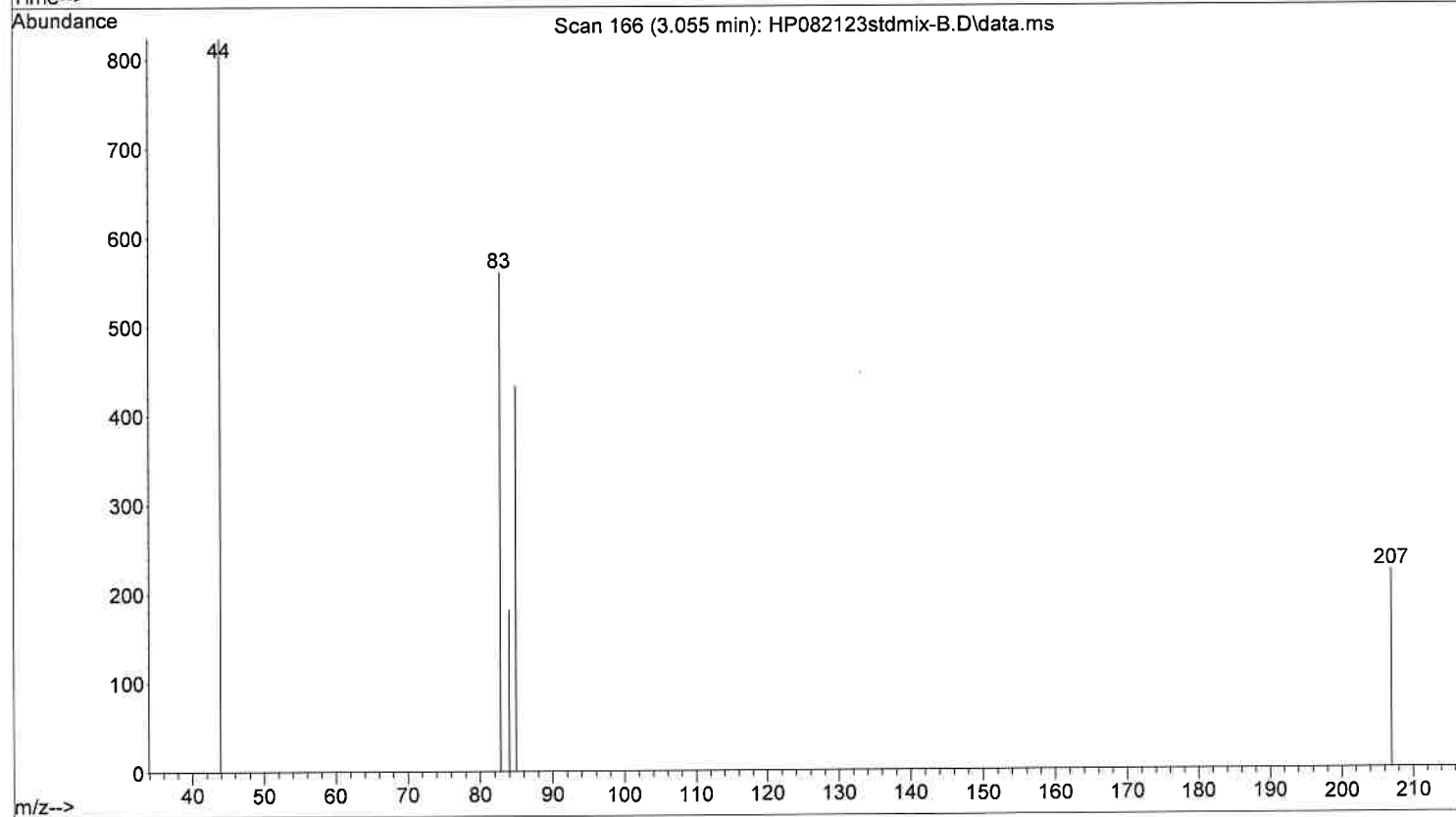
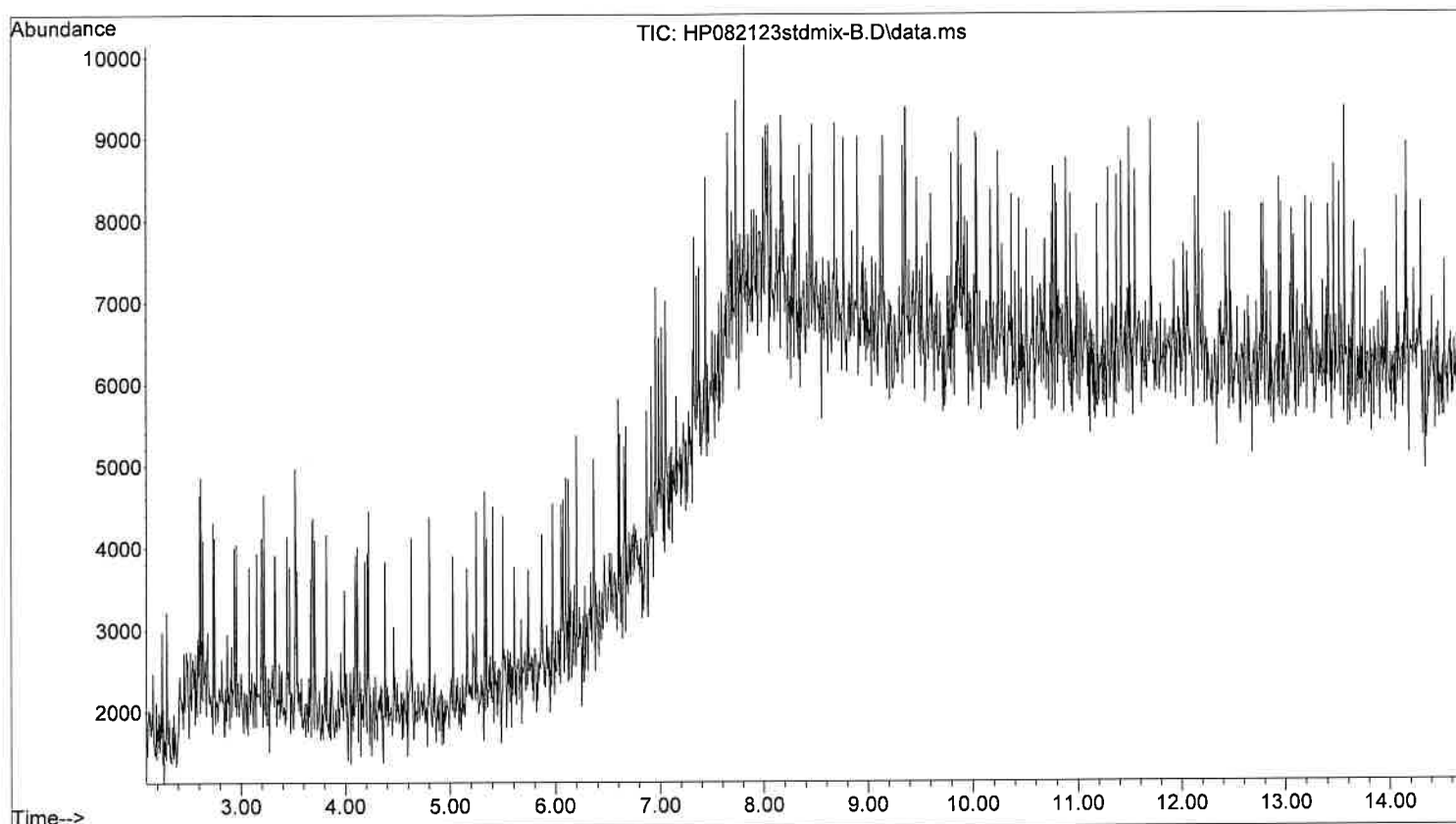
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Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 12



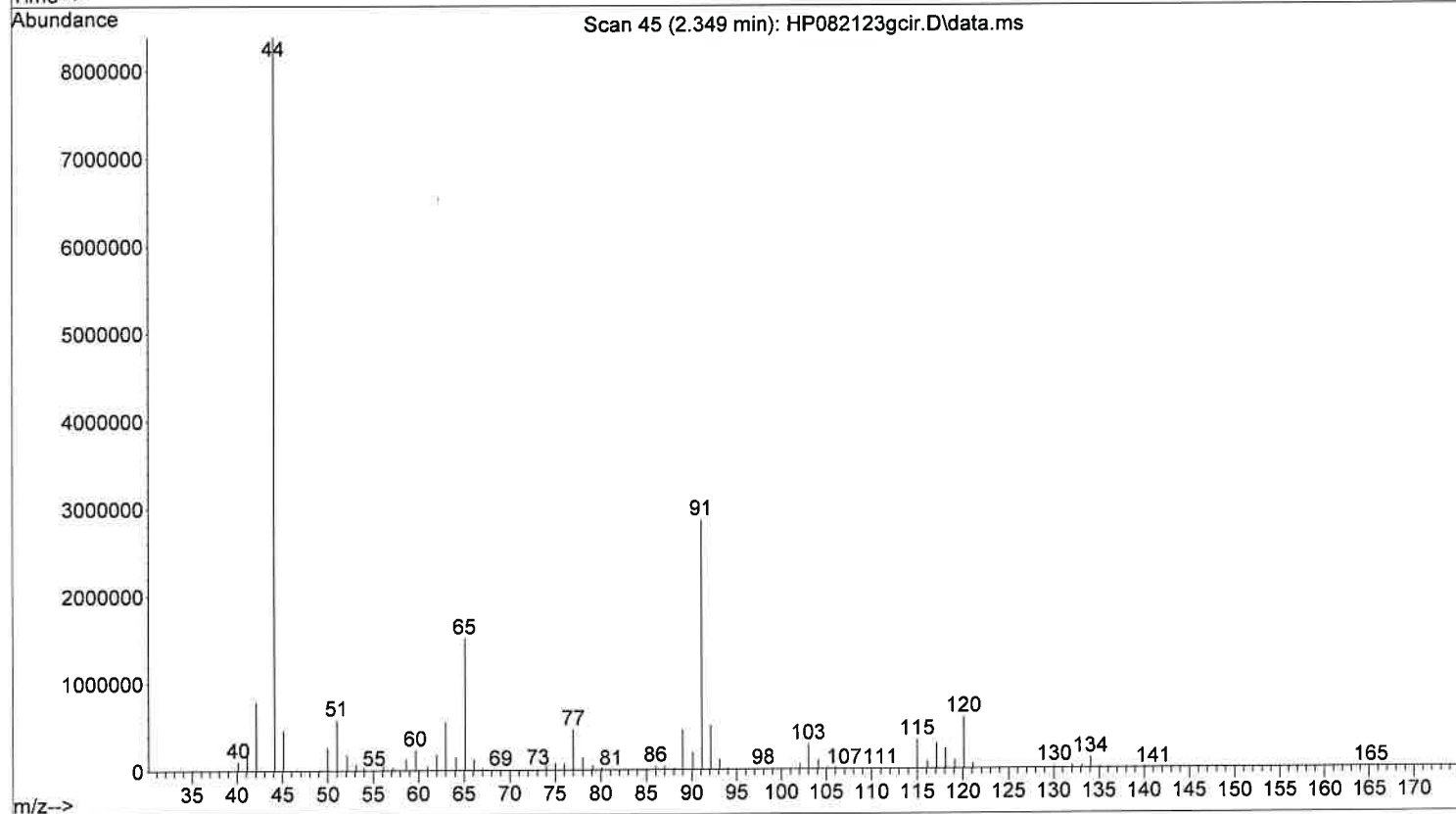
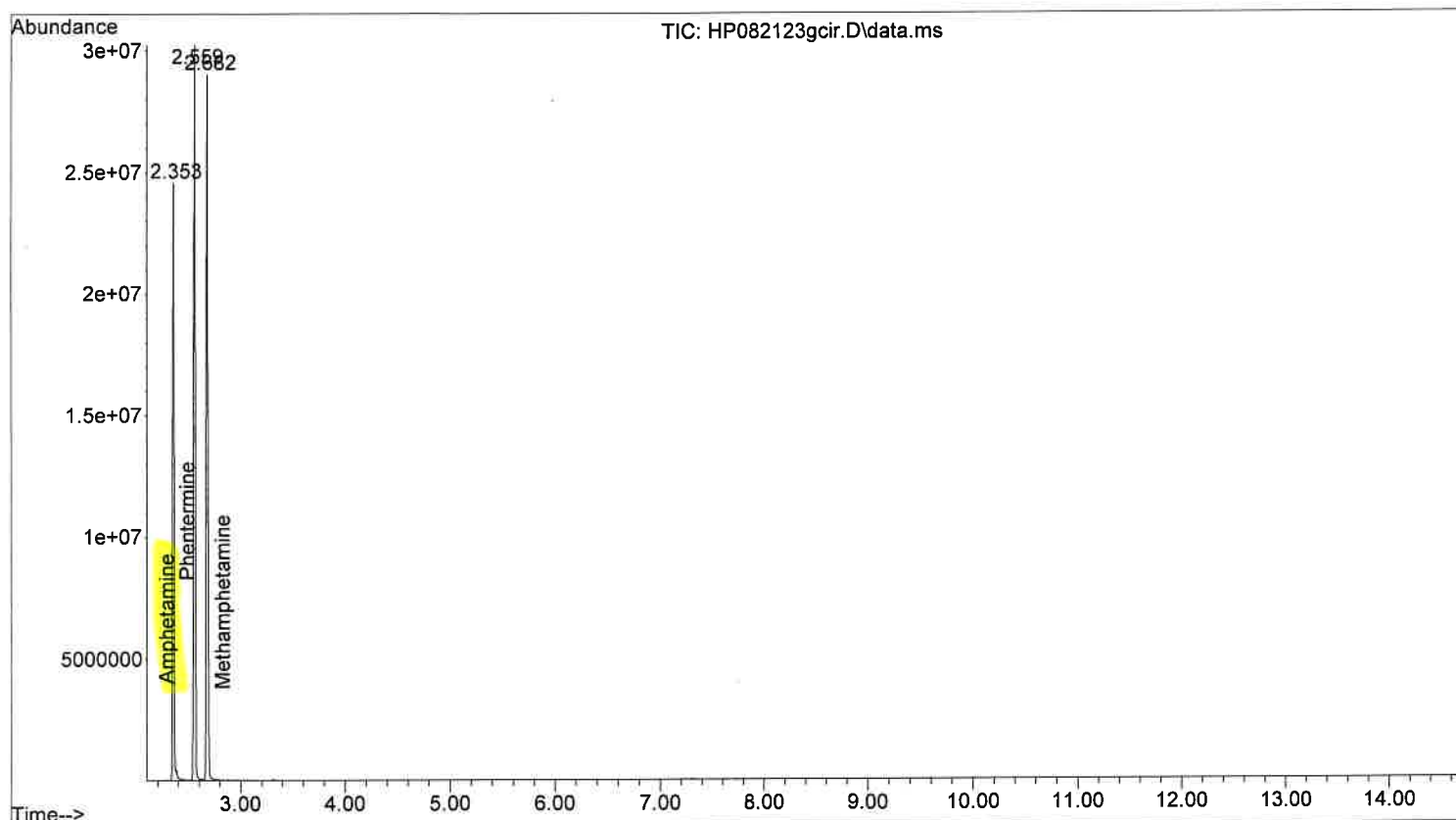
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Vial Number: 12



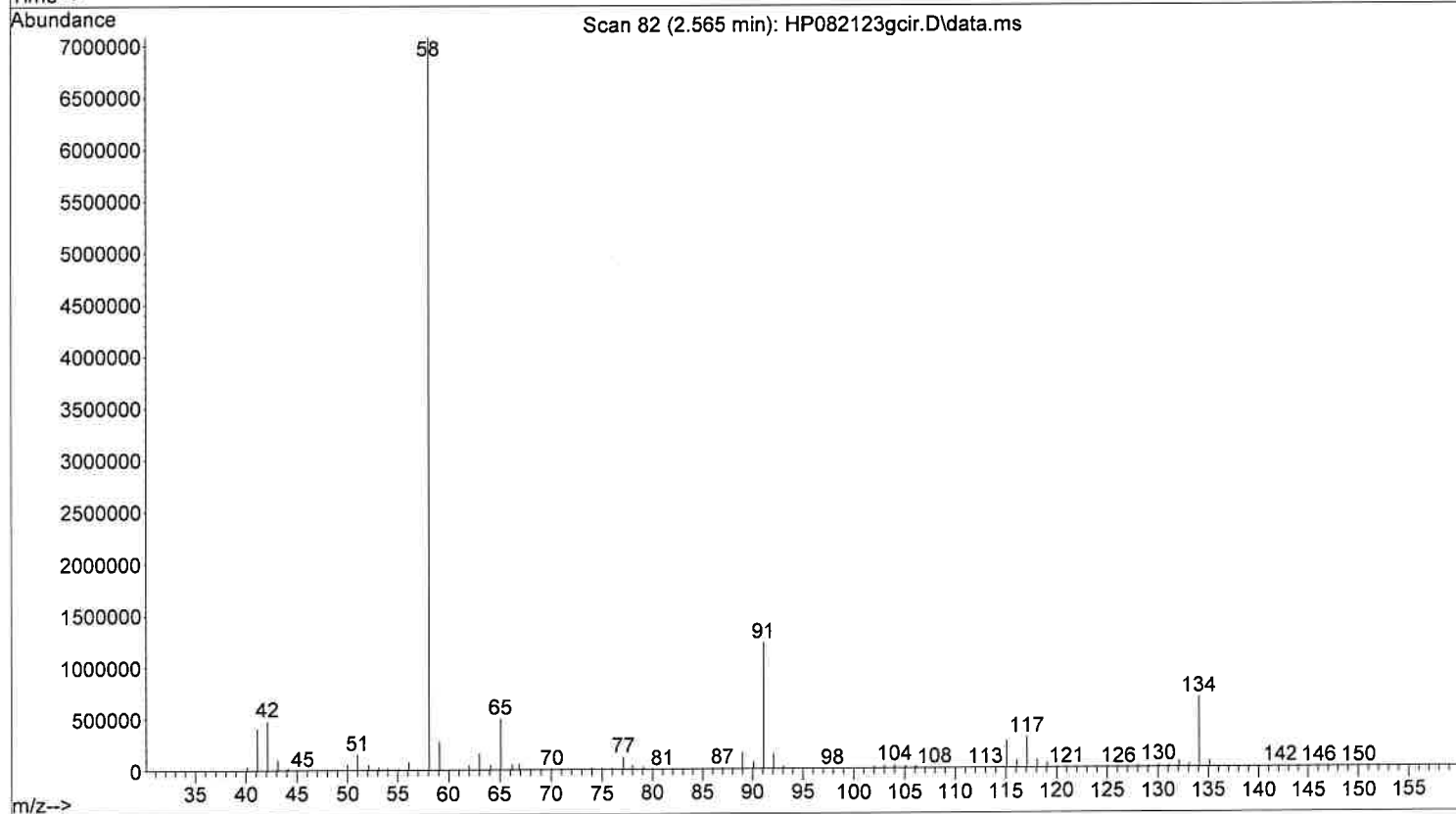
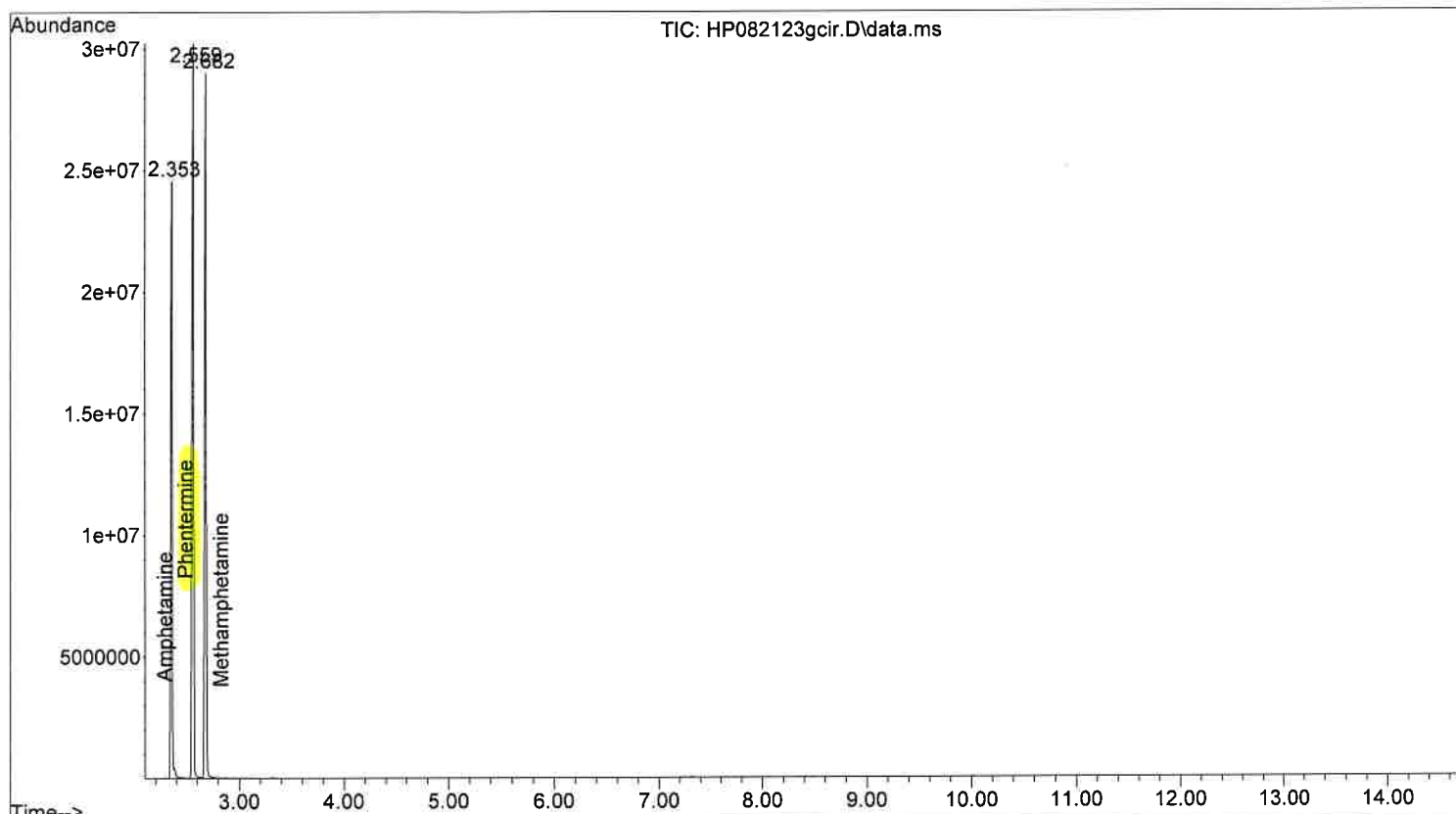
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Instrument : Blossom
Sample Name: Chloroform Blank for Standard Mix
Misc Info :
Vial Number: 2



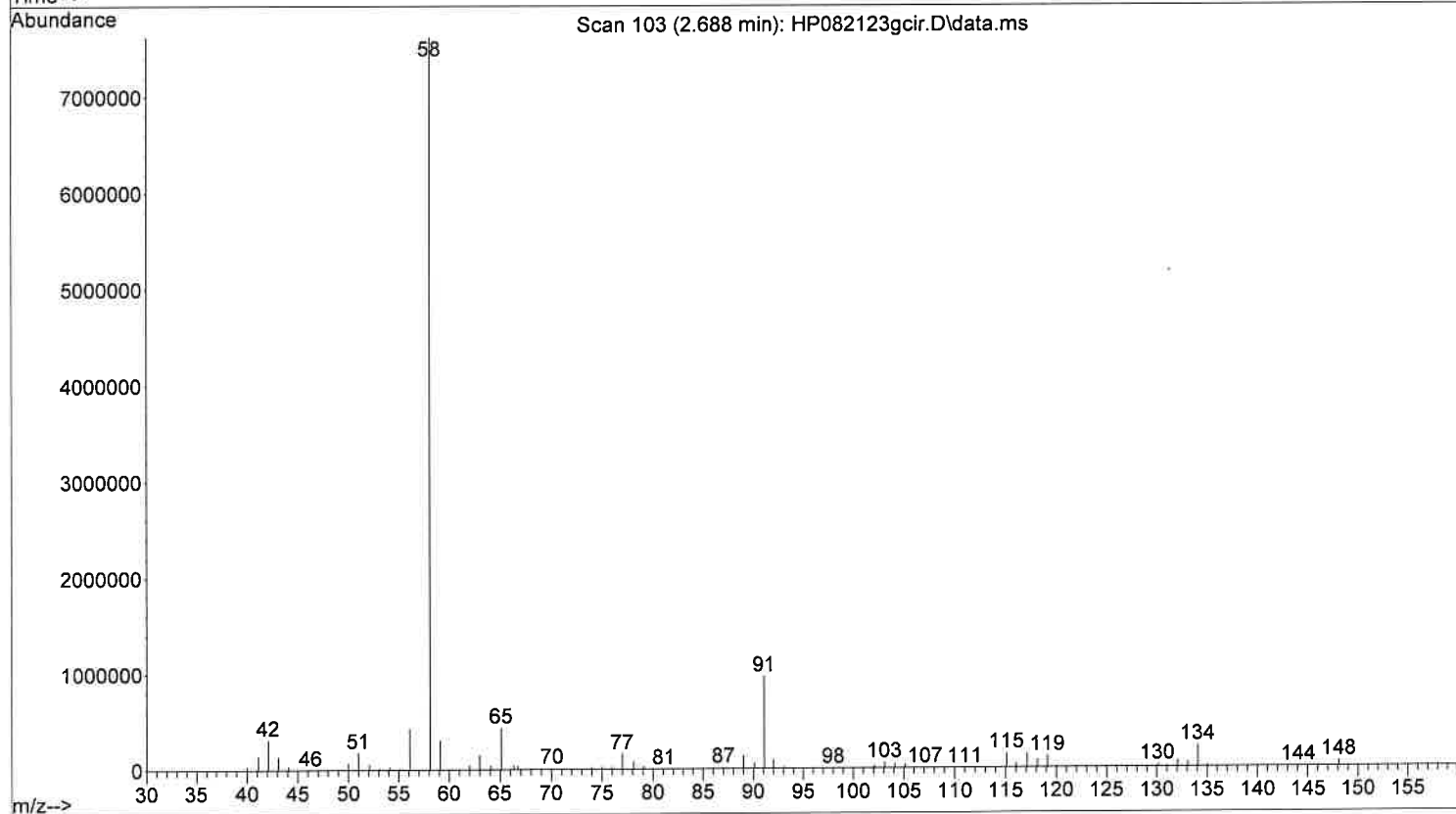
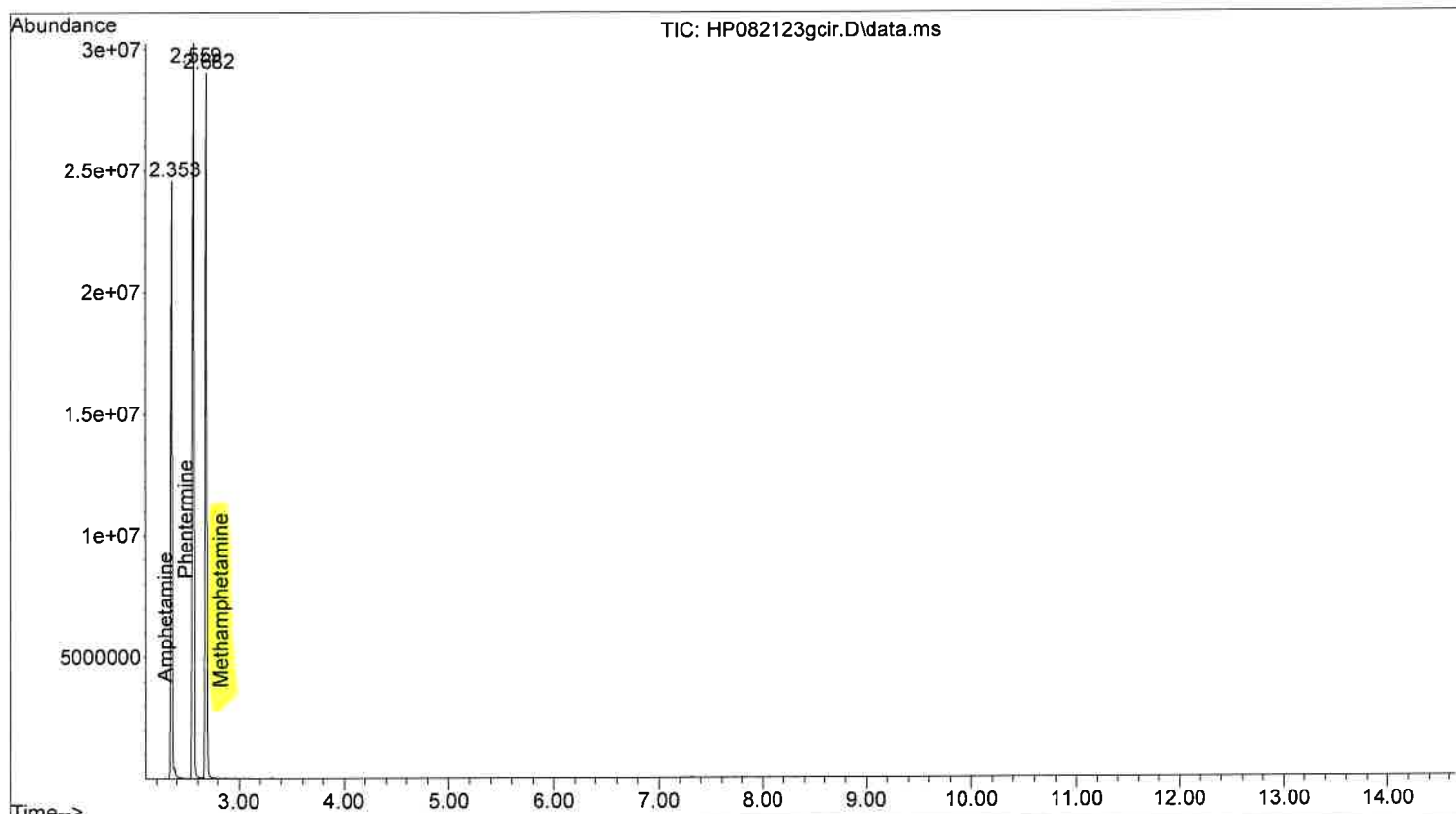
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Instrument : Blossom
Sample Name: GCIR Mix in Chloroform
Misc Info :
Vial Number: 16



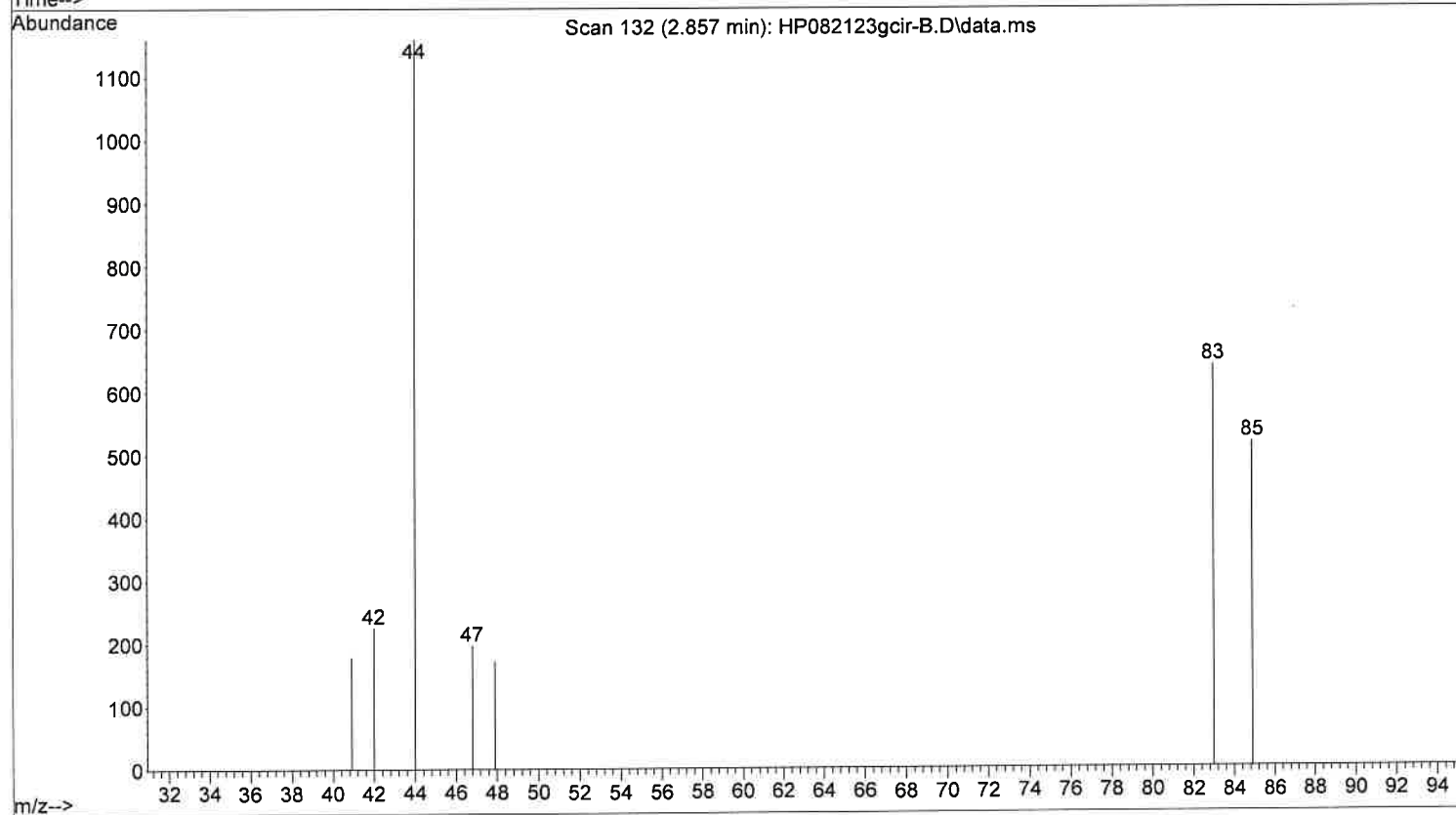
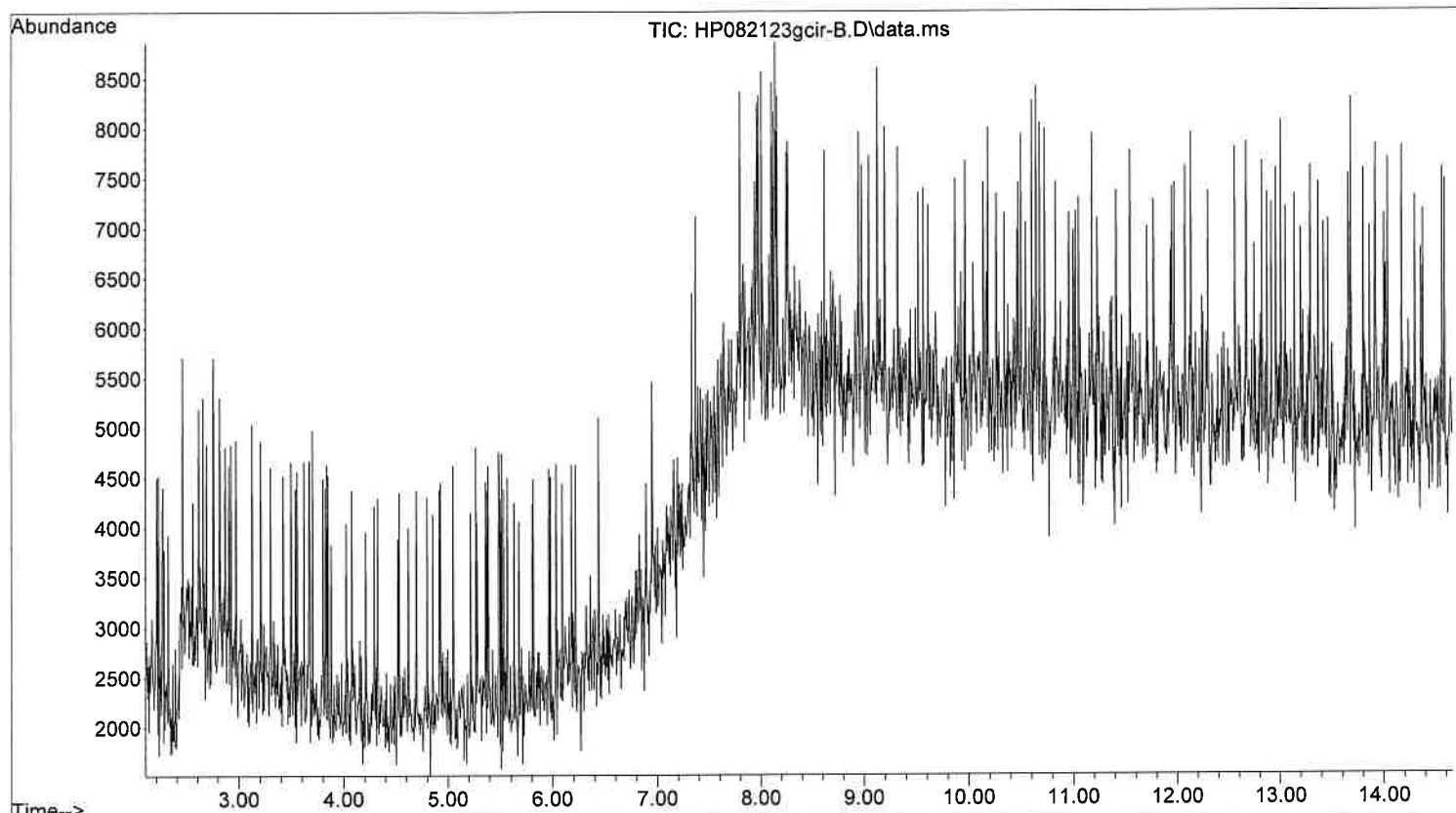
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Misc Info :
Vial Number: 16



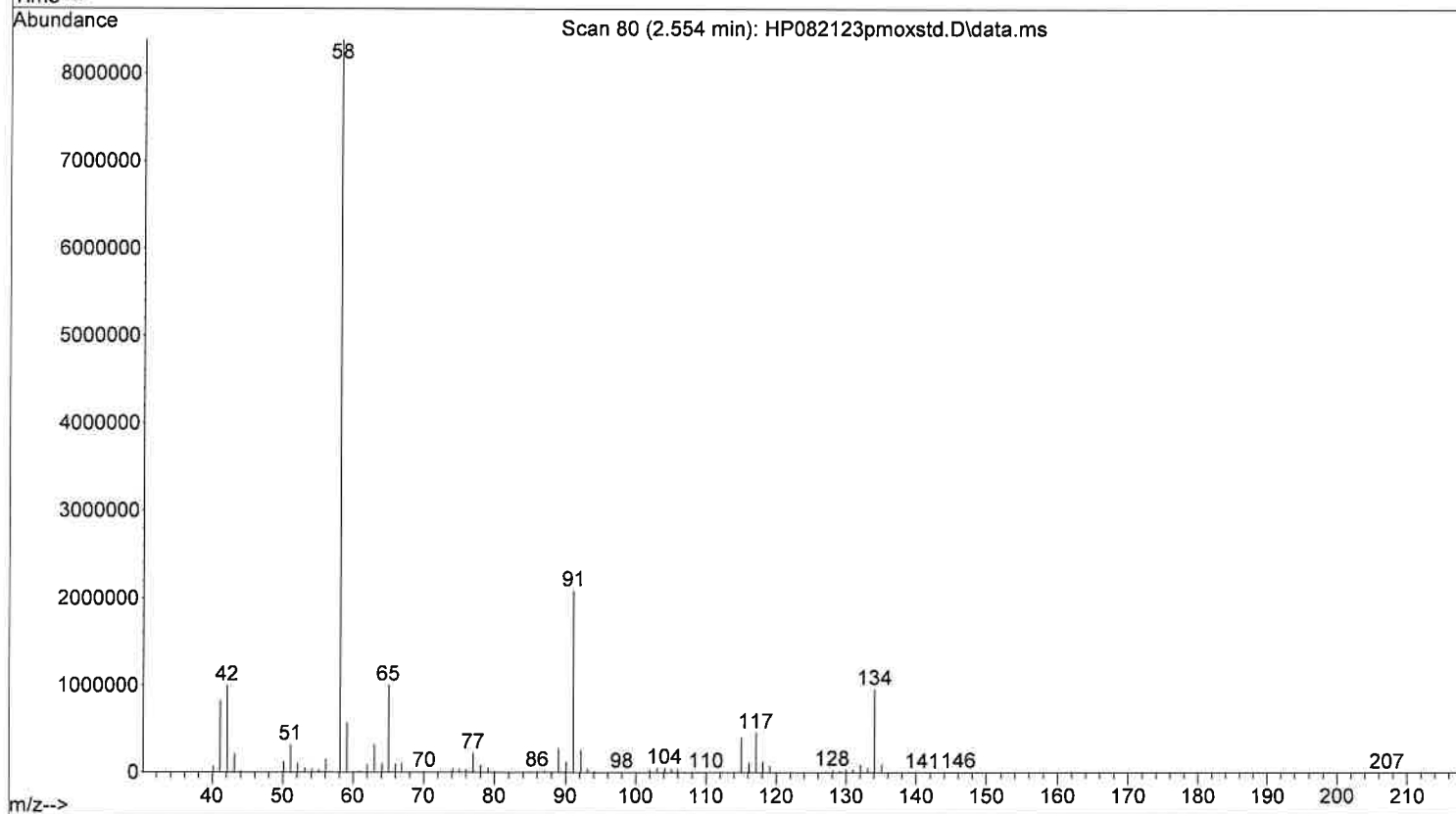
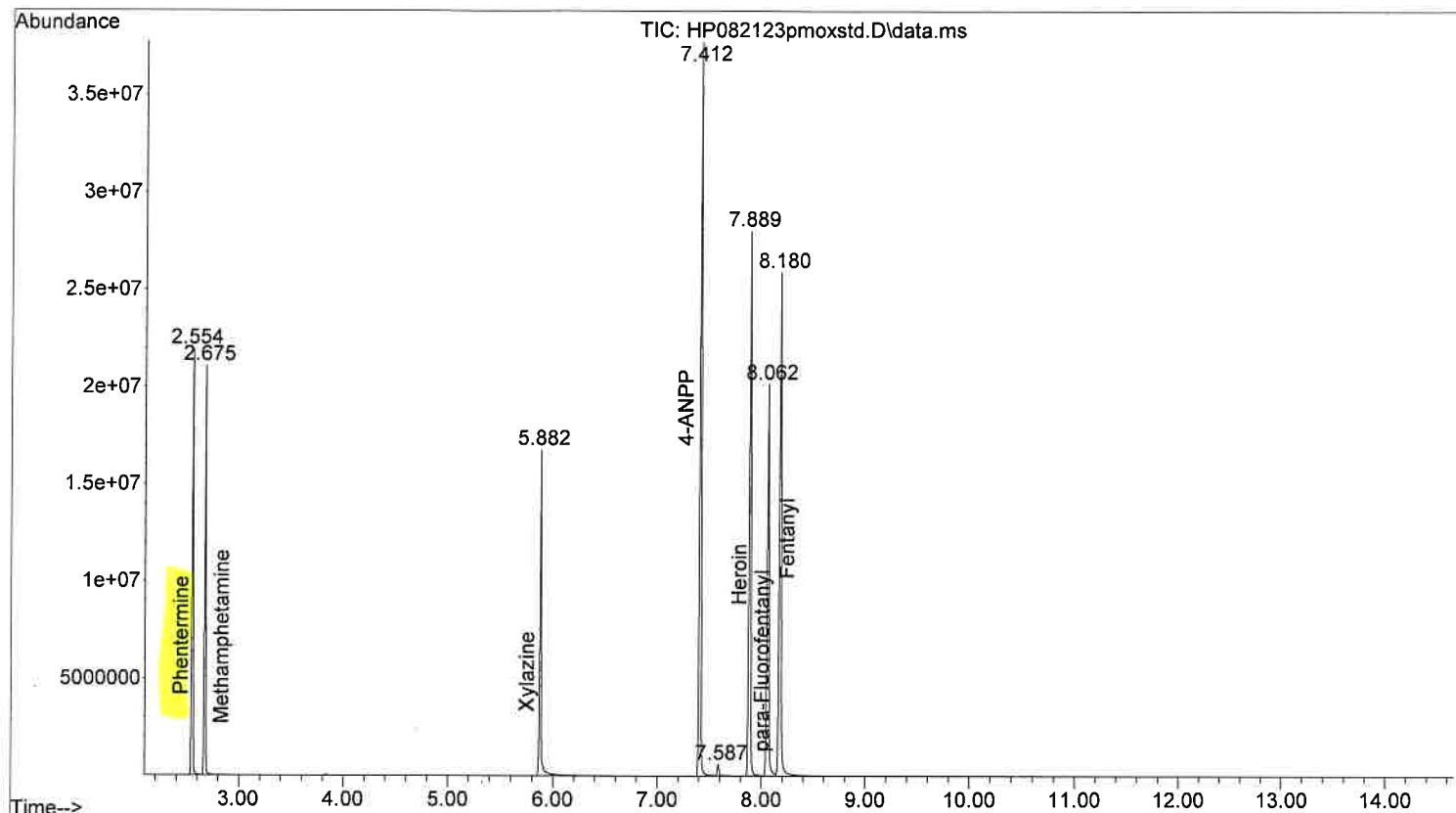
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Instrument : Blossom
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Vial Number: 16



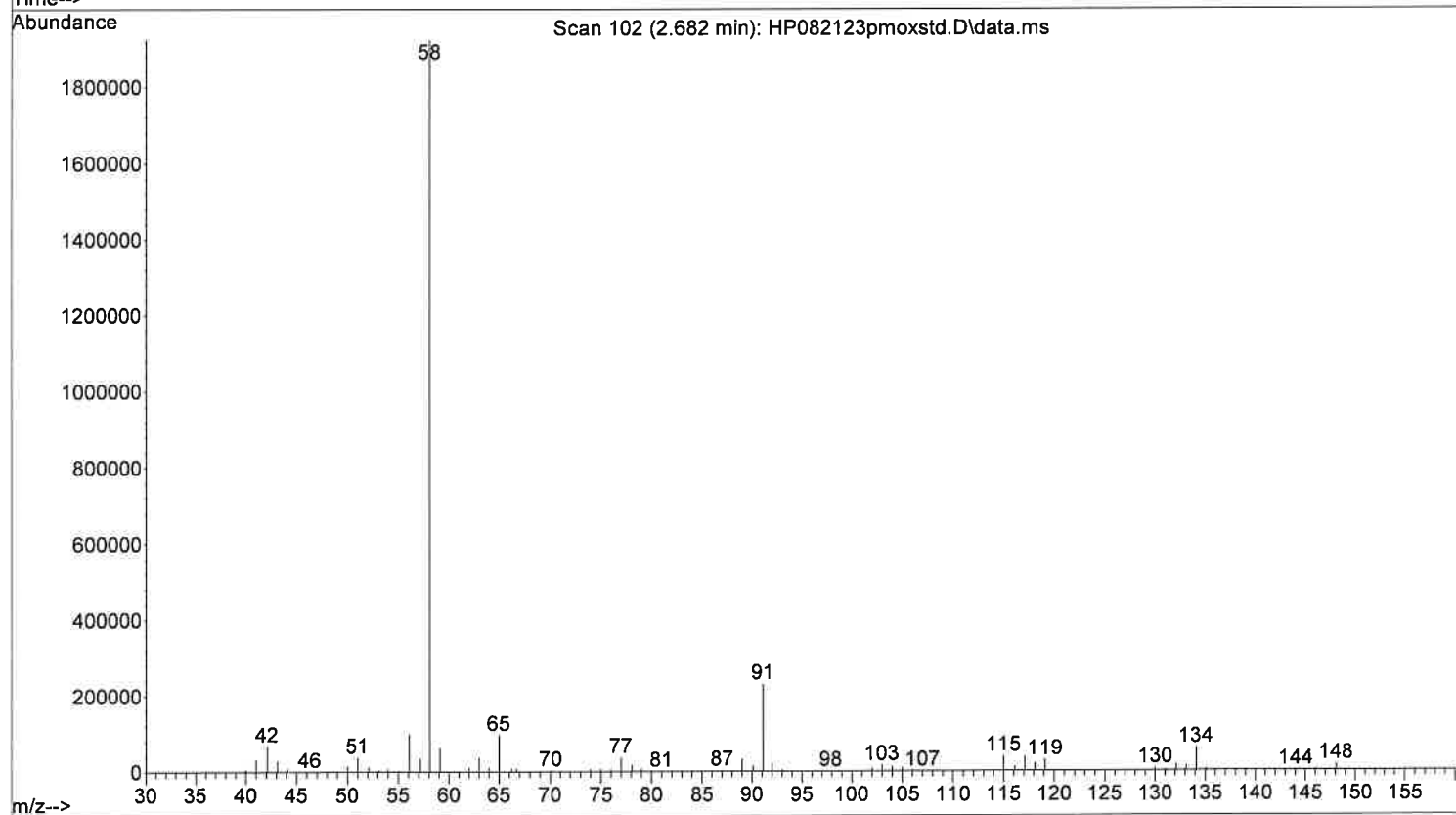
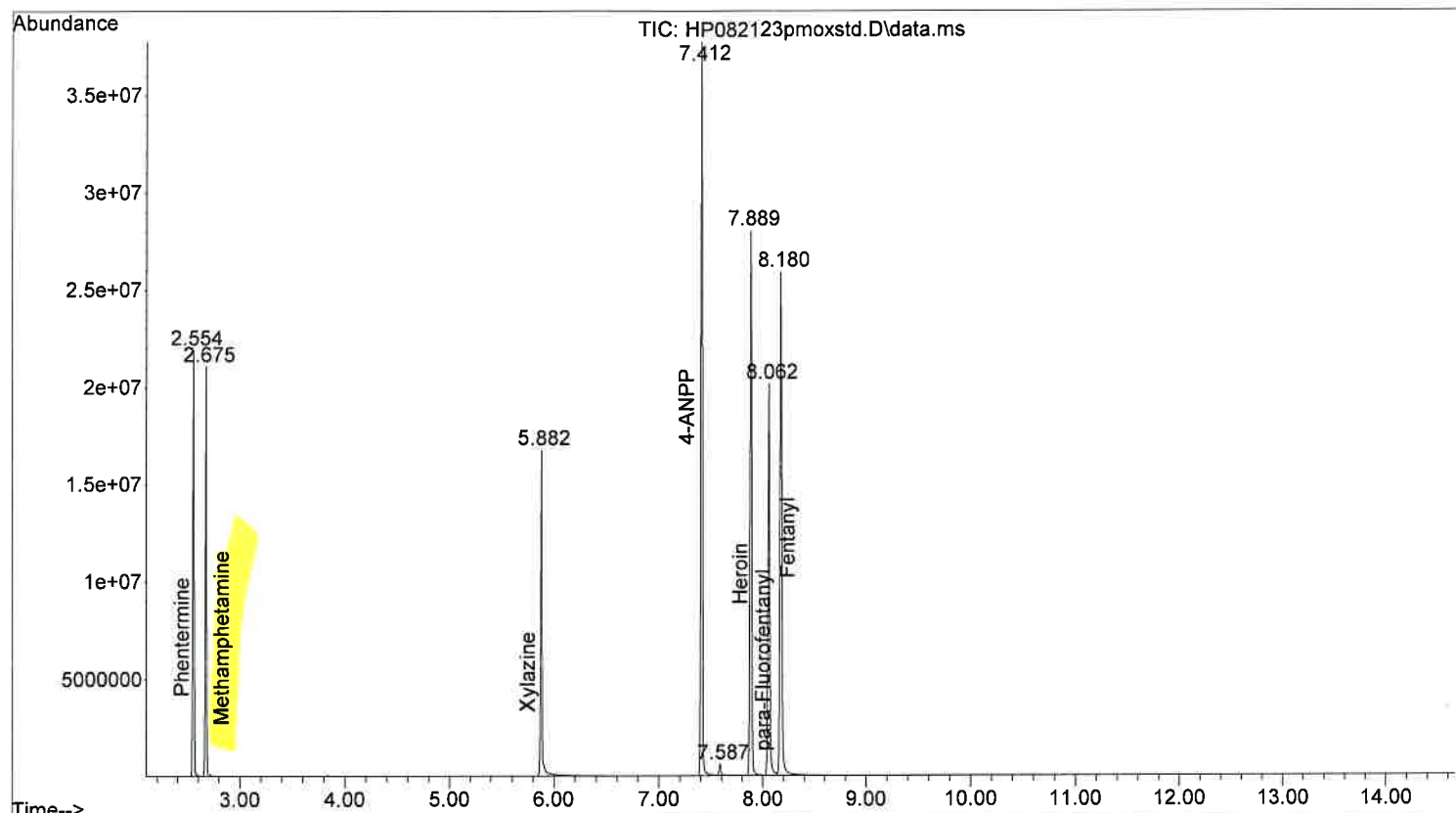
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Instrument : Blossom
Sample Name: Chloroform Blank for GCIR Mix
Misc Info :
Vial Number: 2



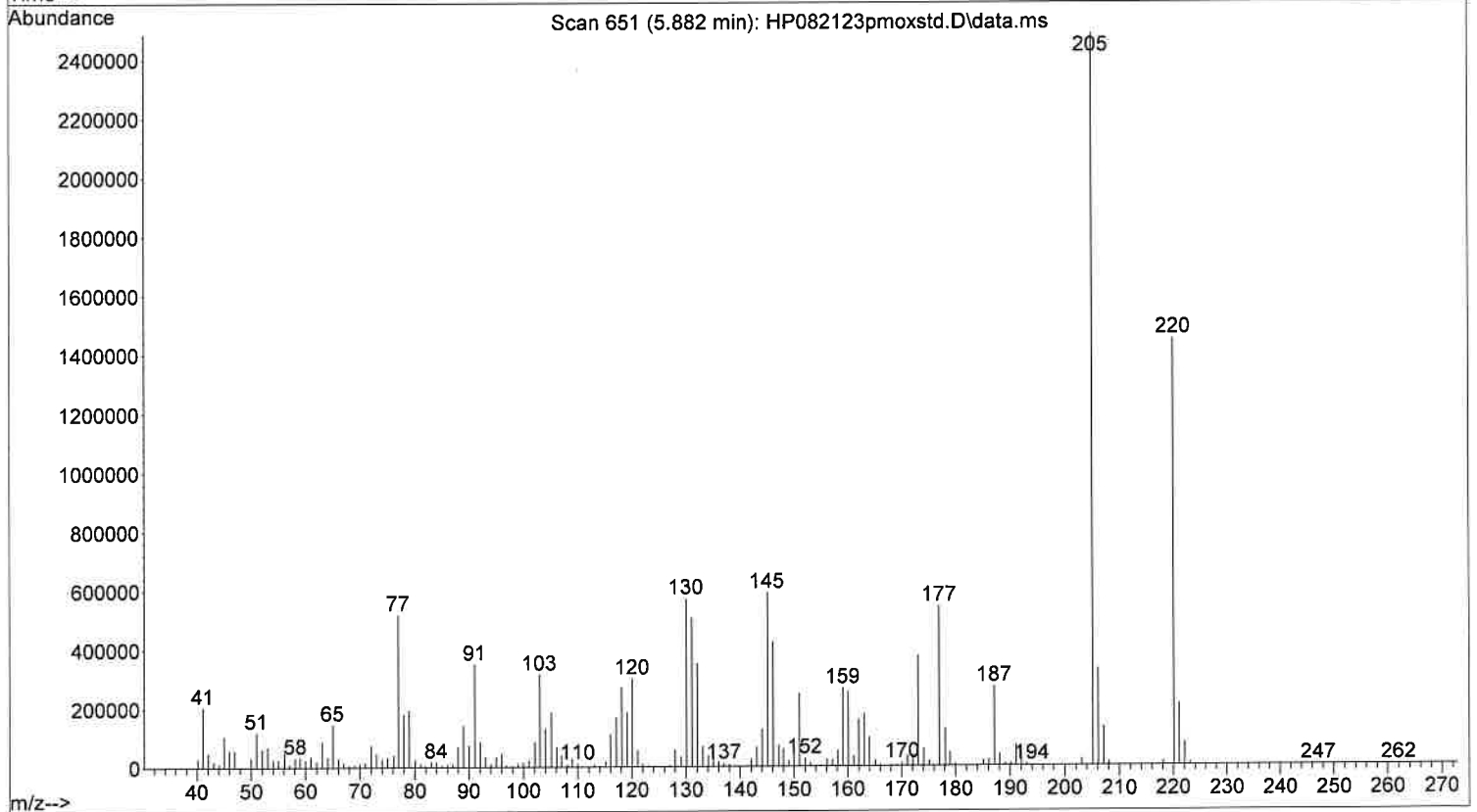
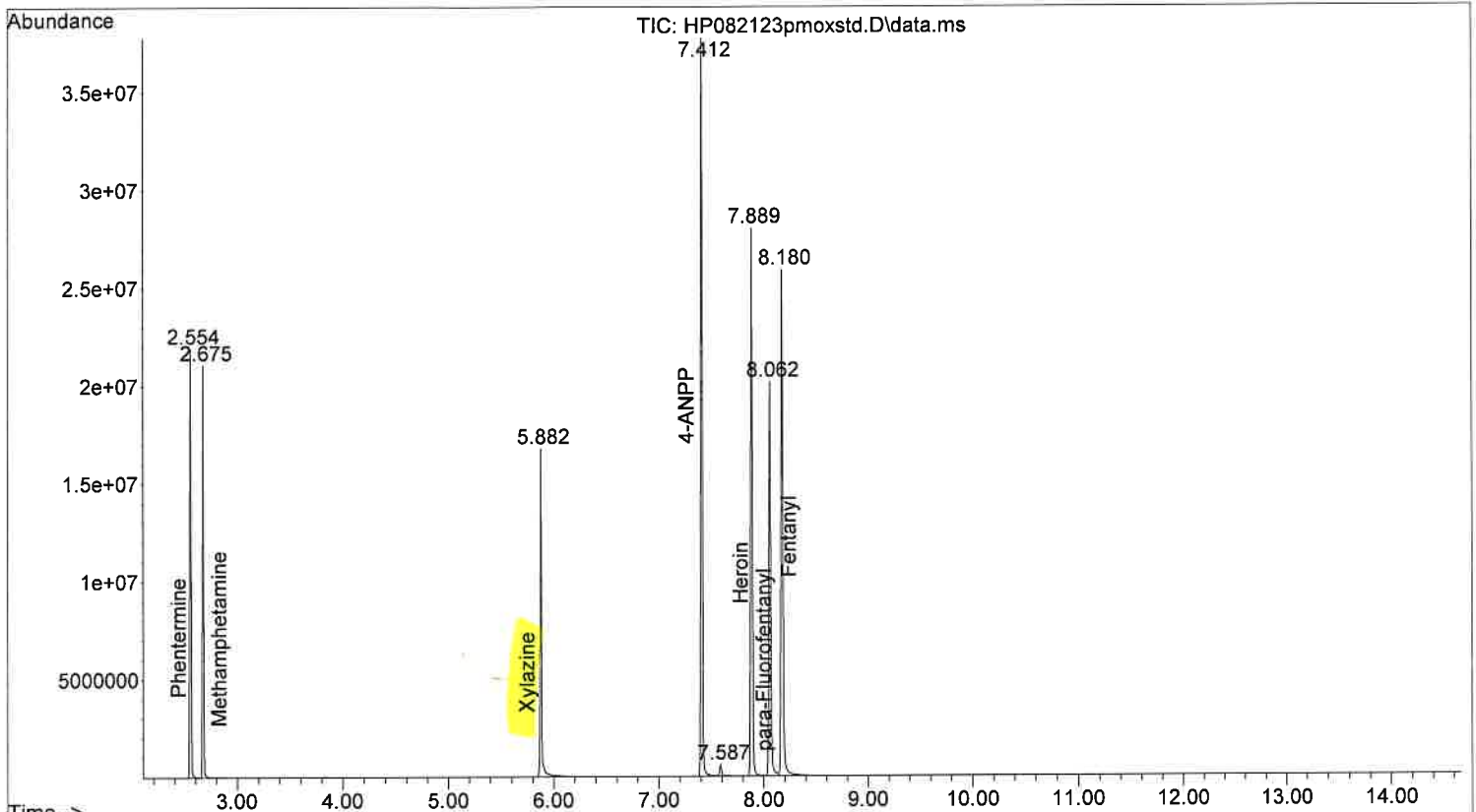
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



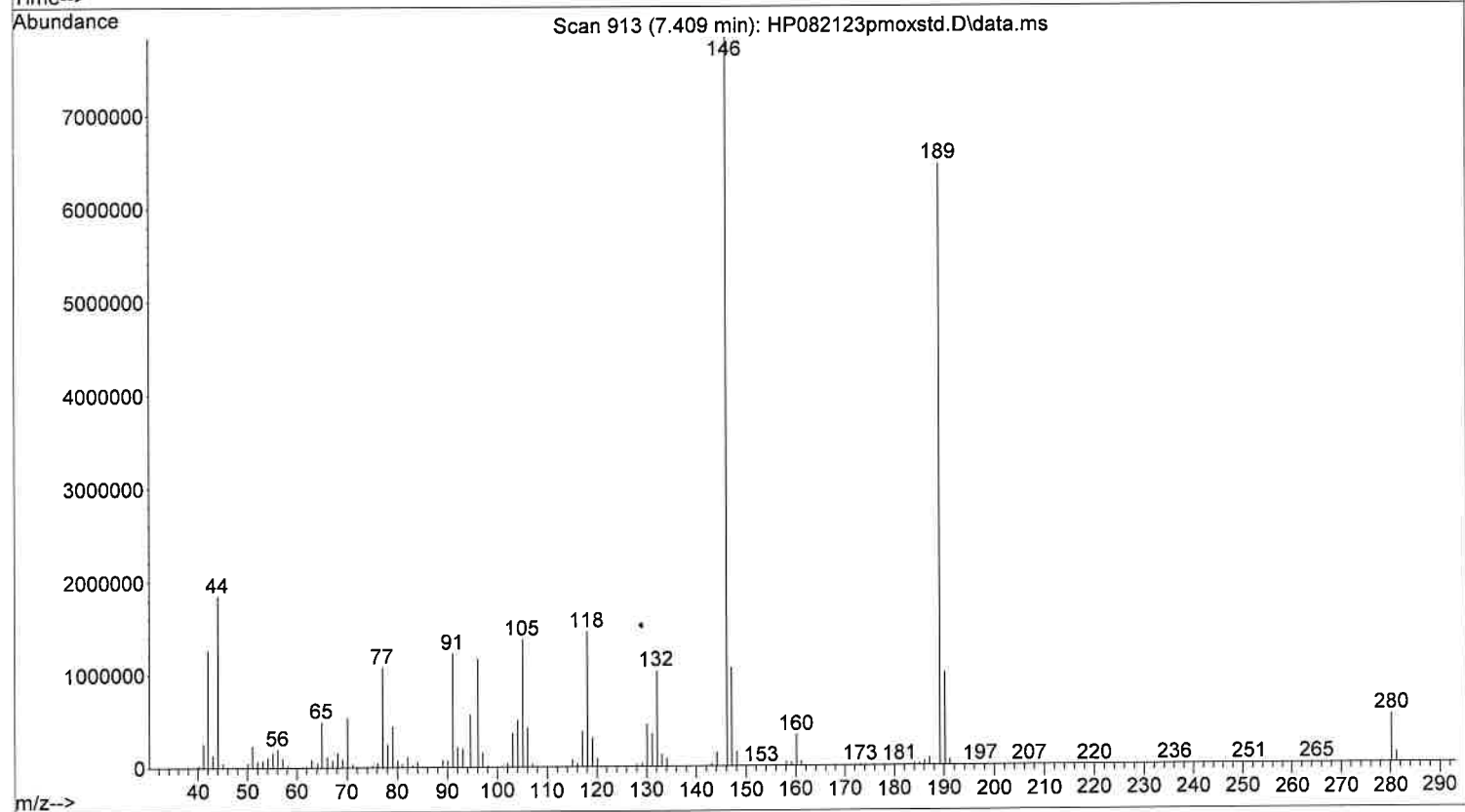
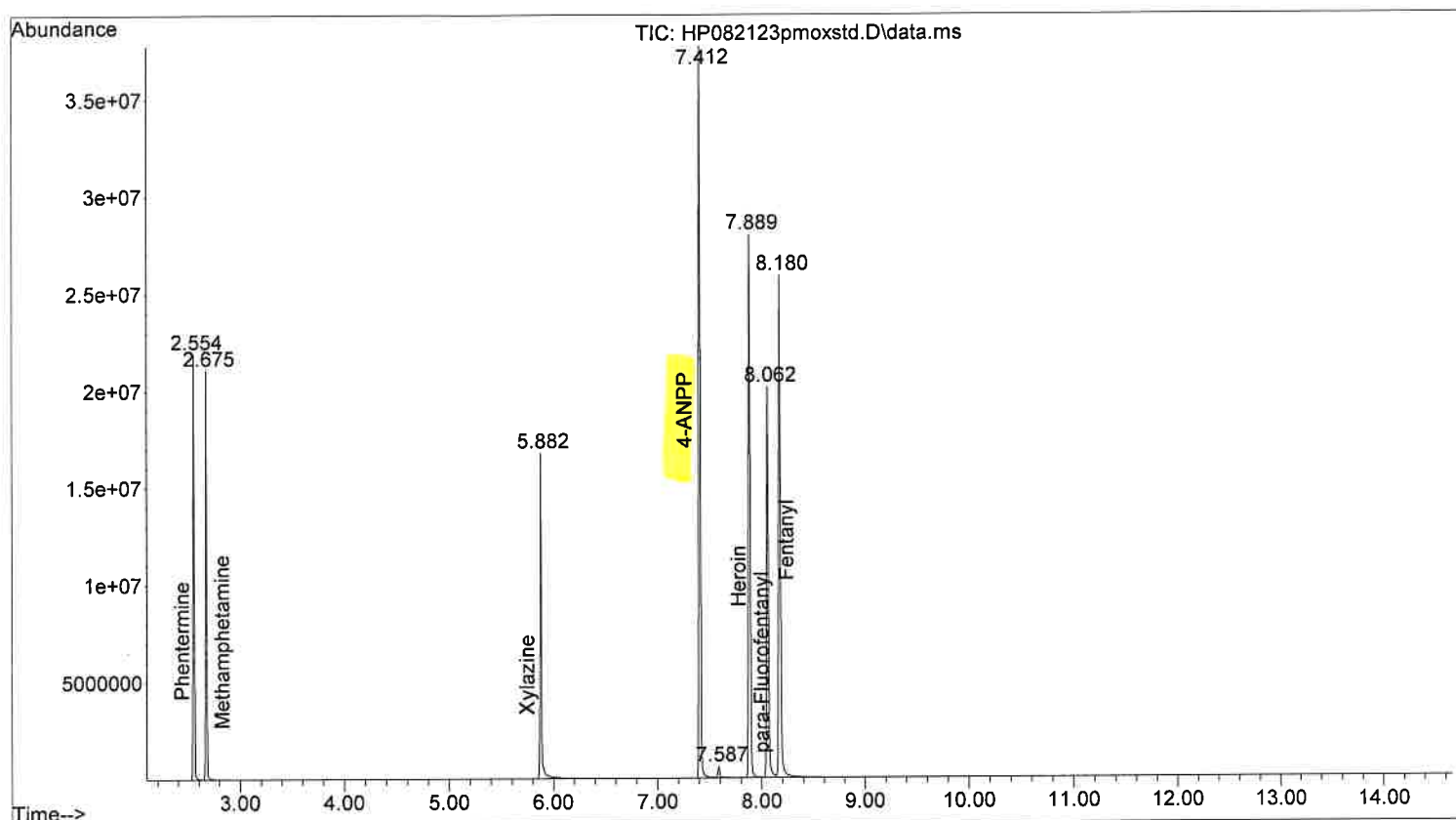
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



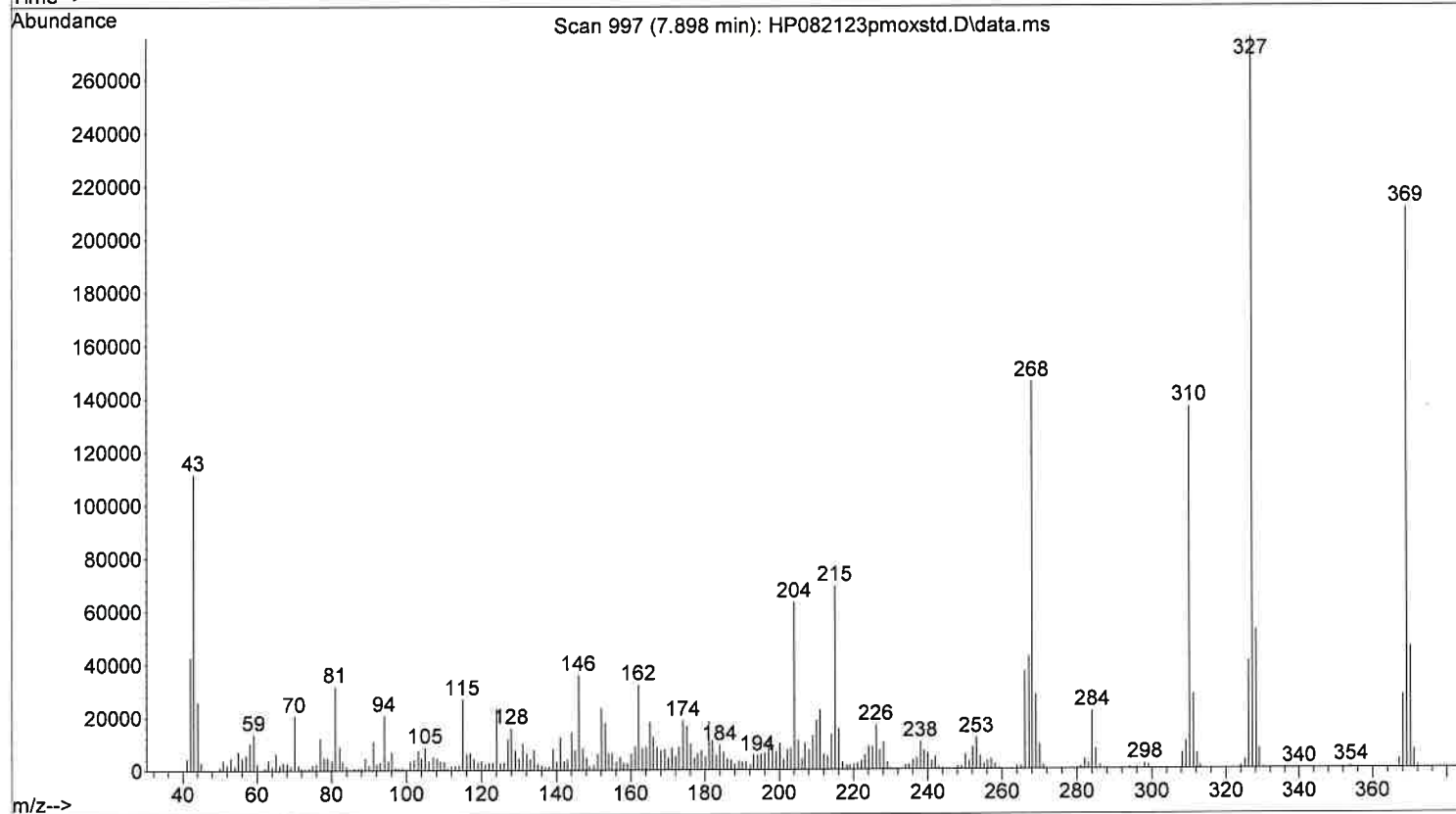
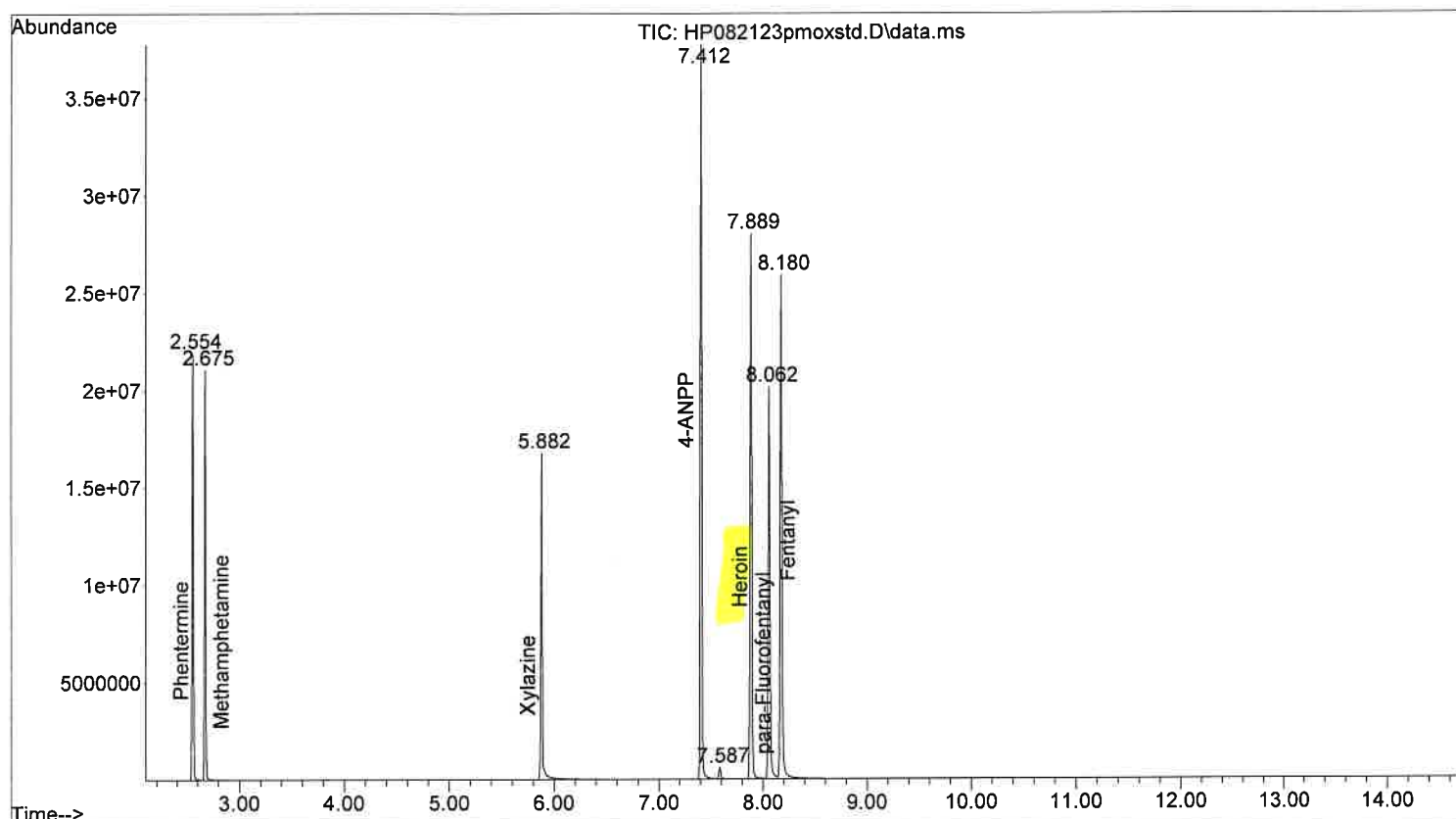
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... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



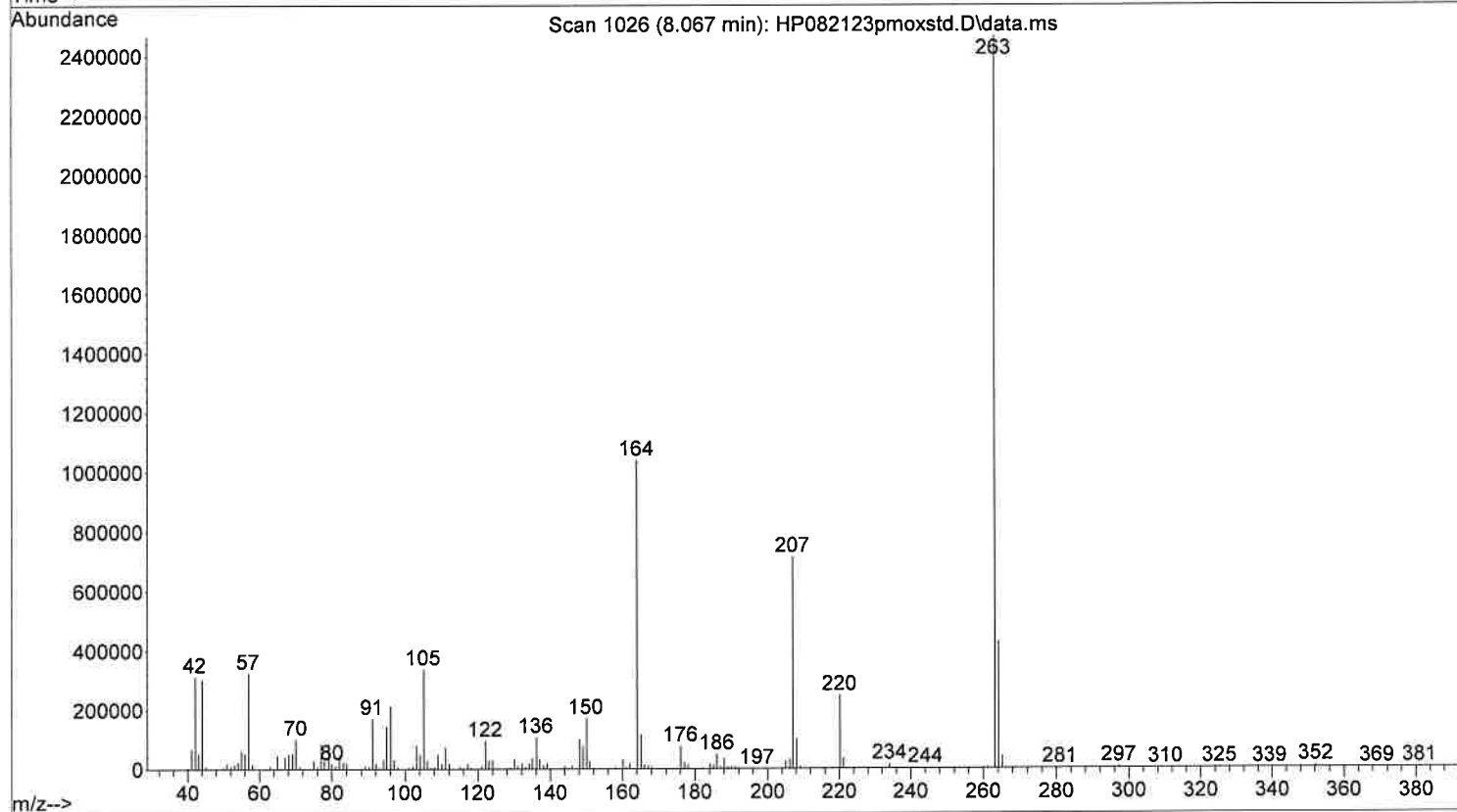
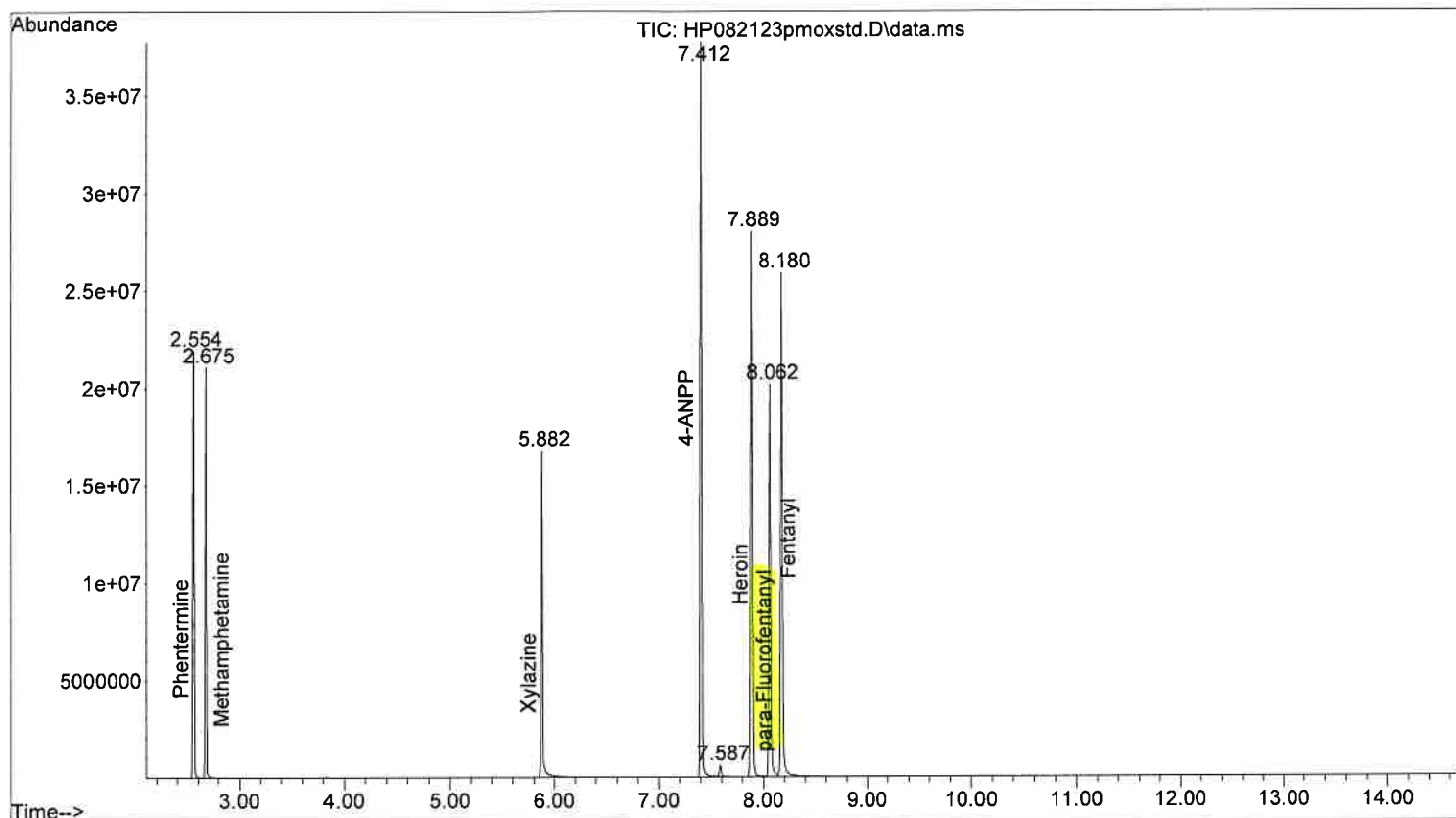
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... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



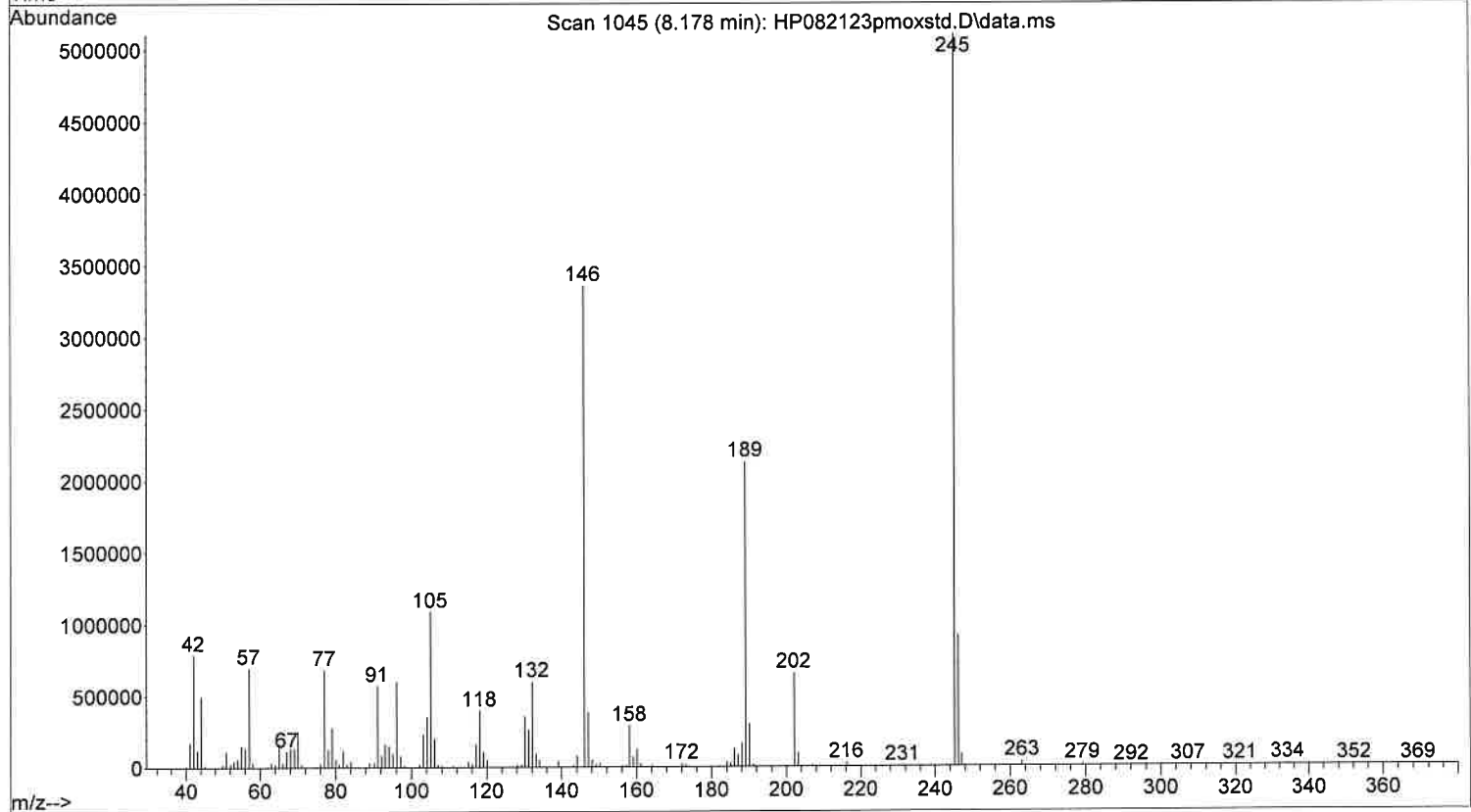
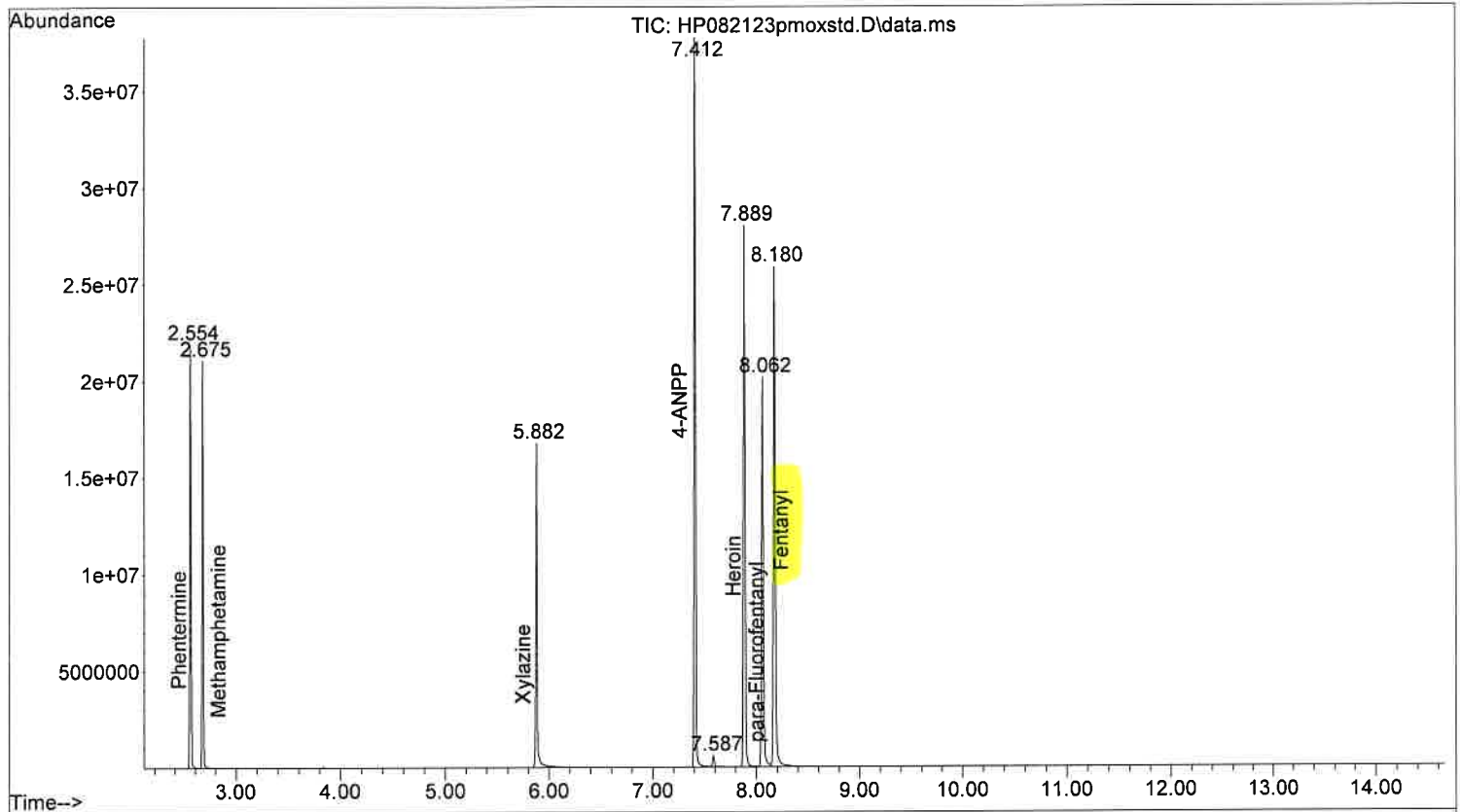
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... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



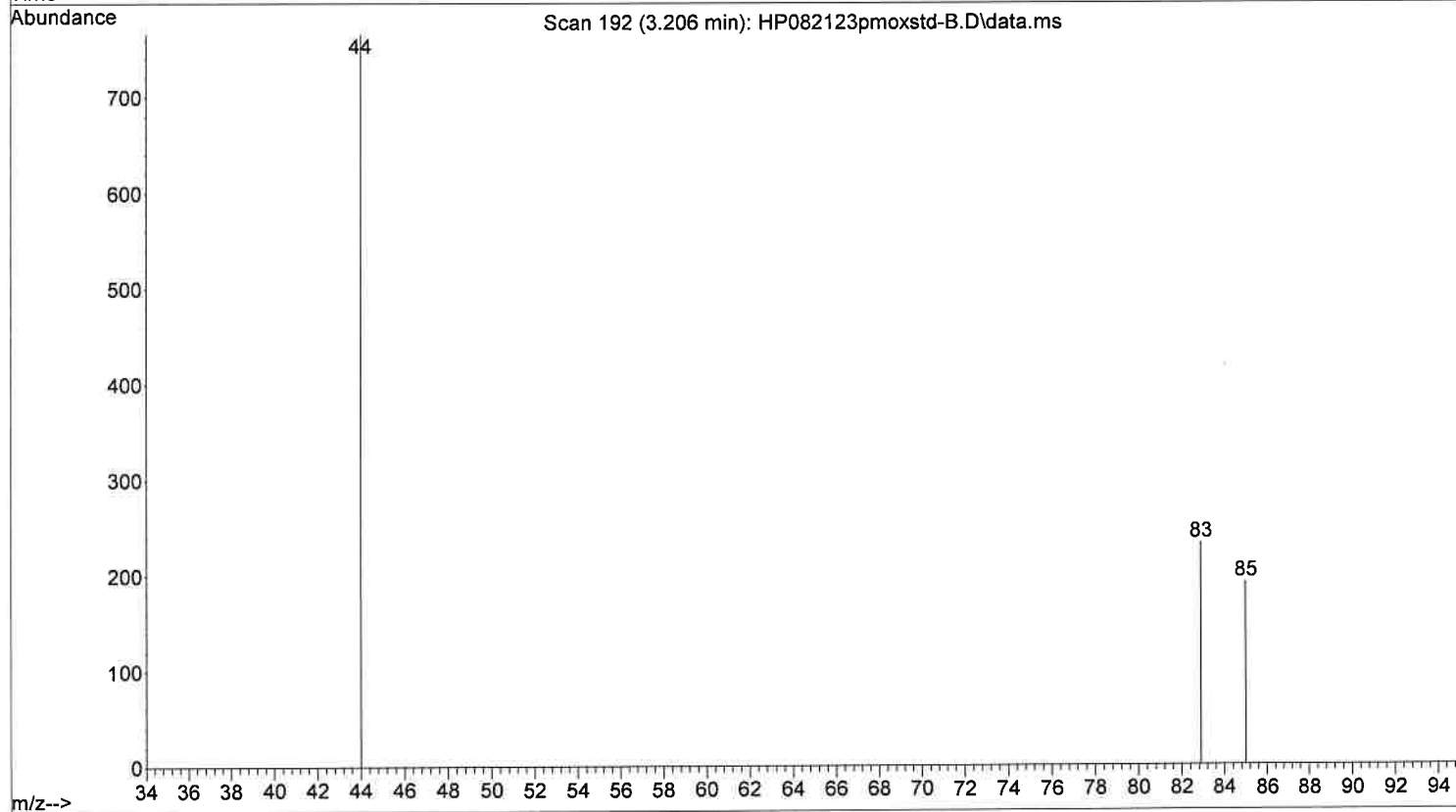
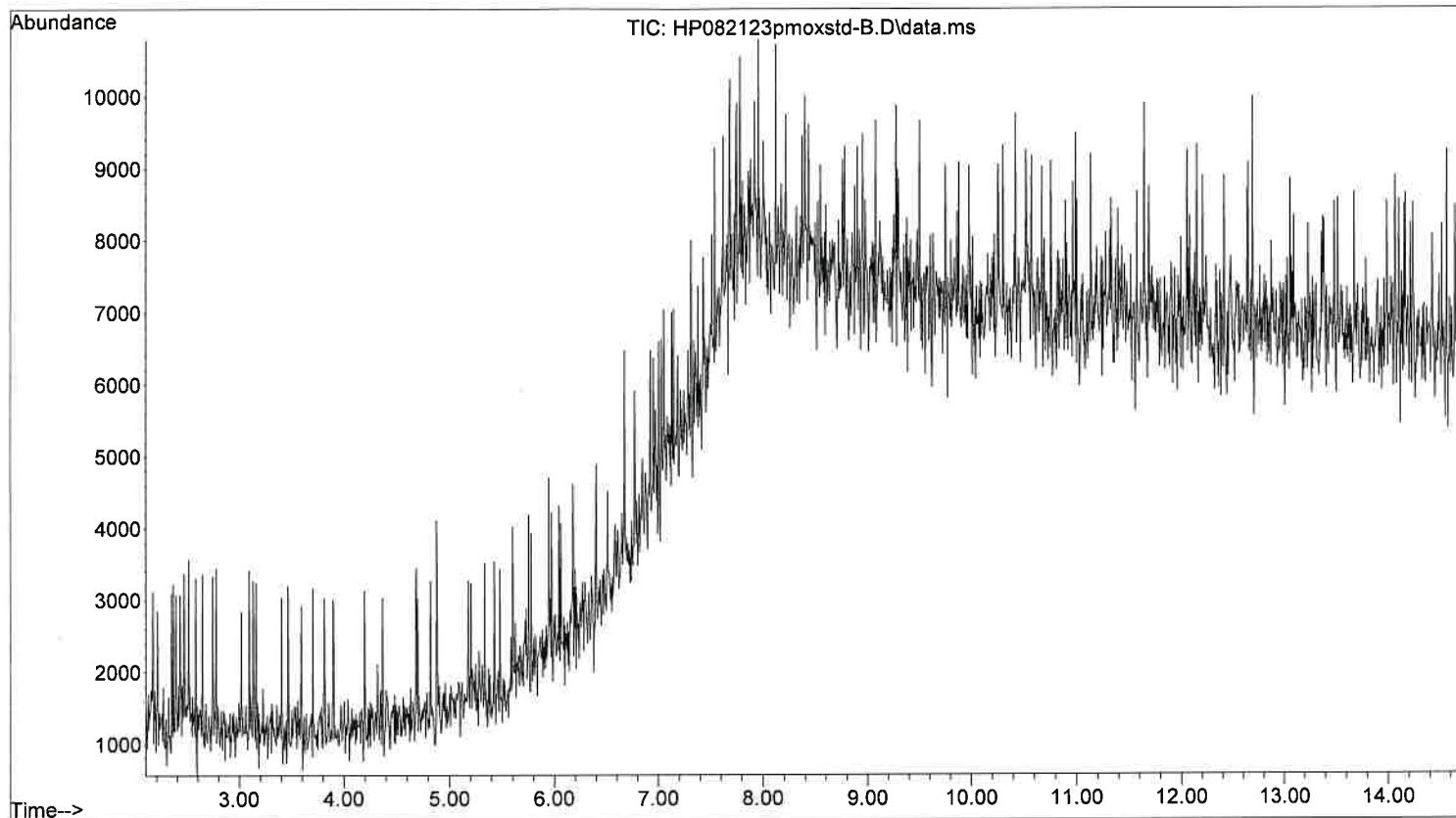
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



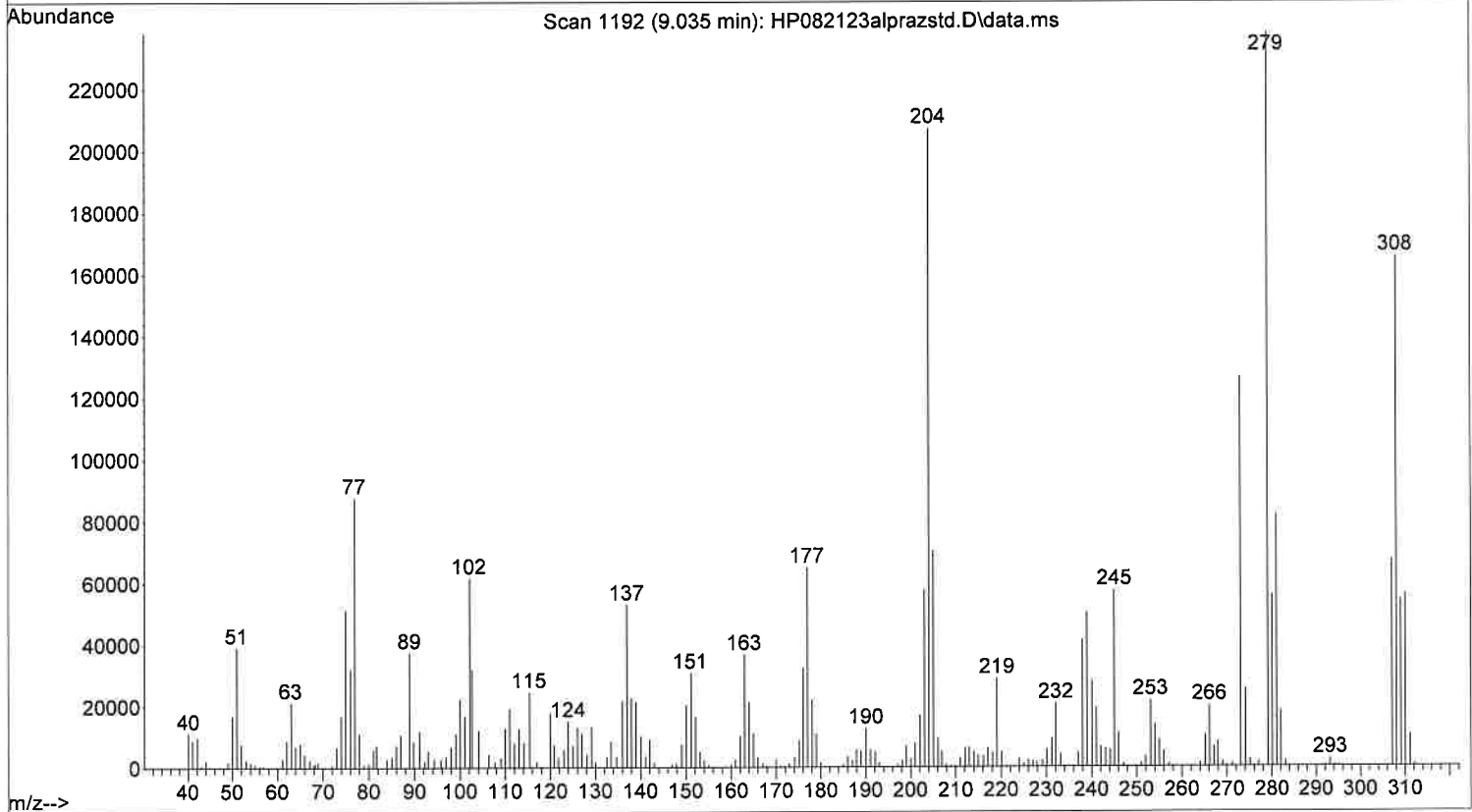
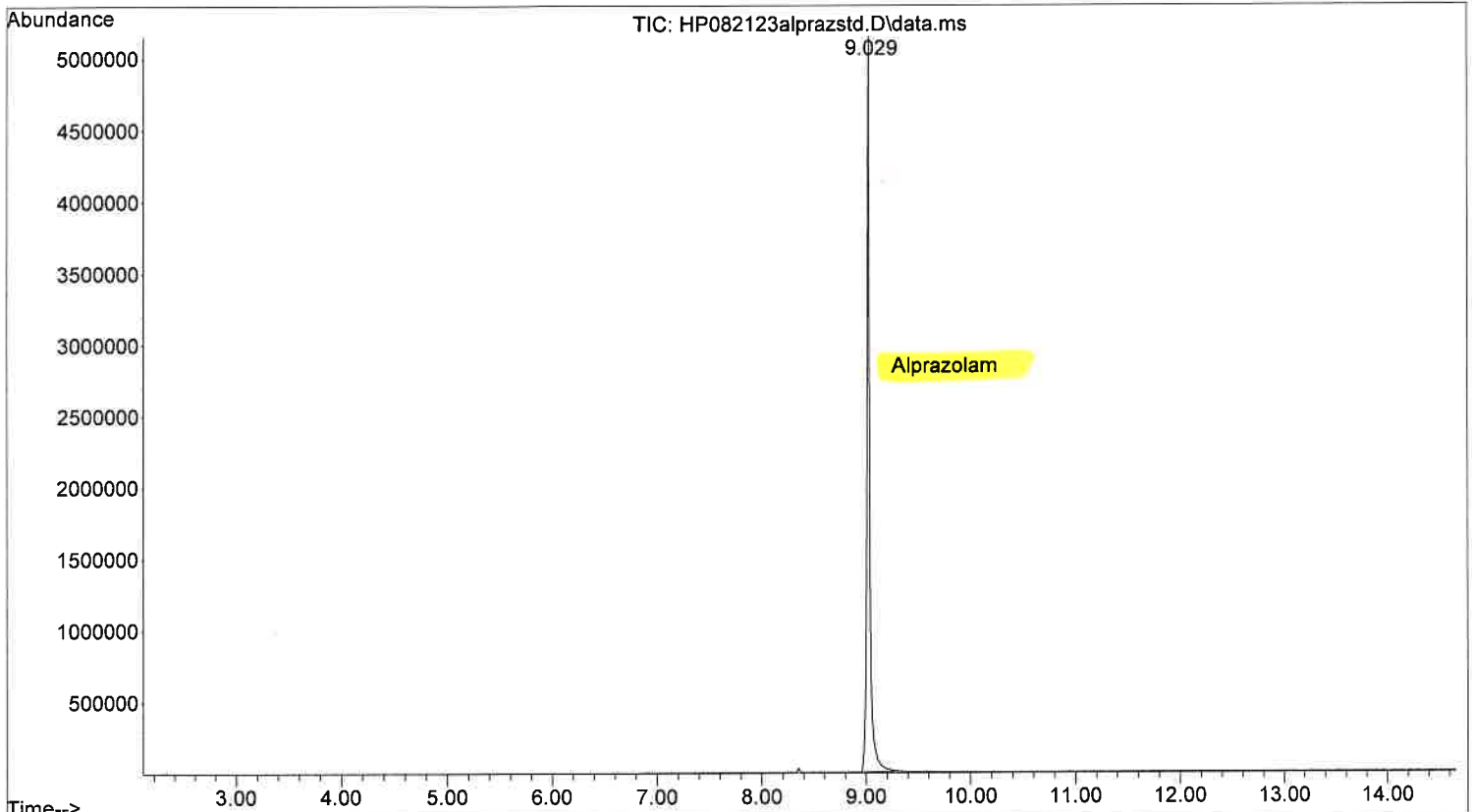
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123pmoxstd.D
Operator :
Acquired : 21 Aug 2023 11:12 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



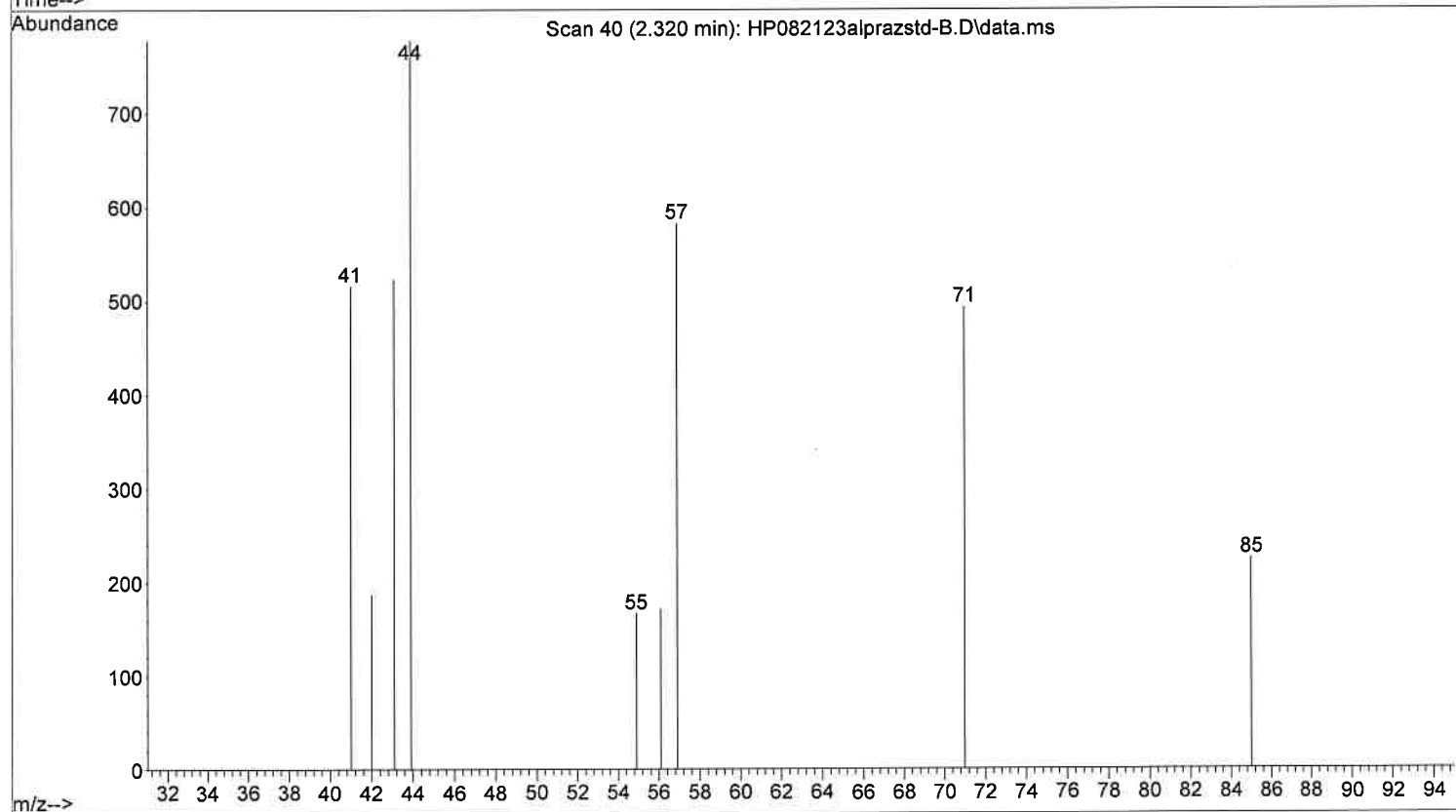
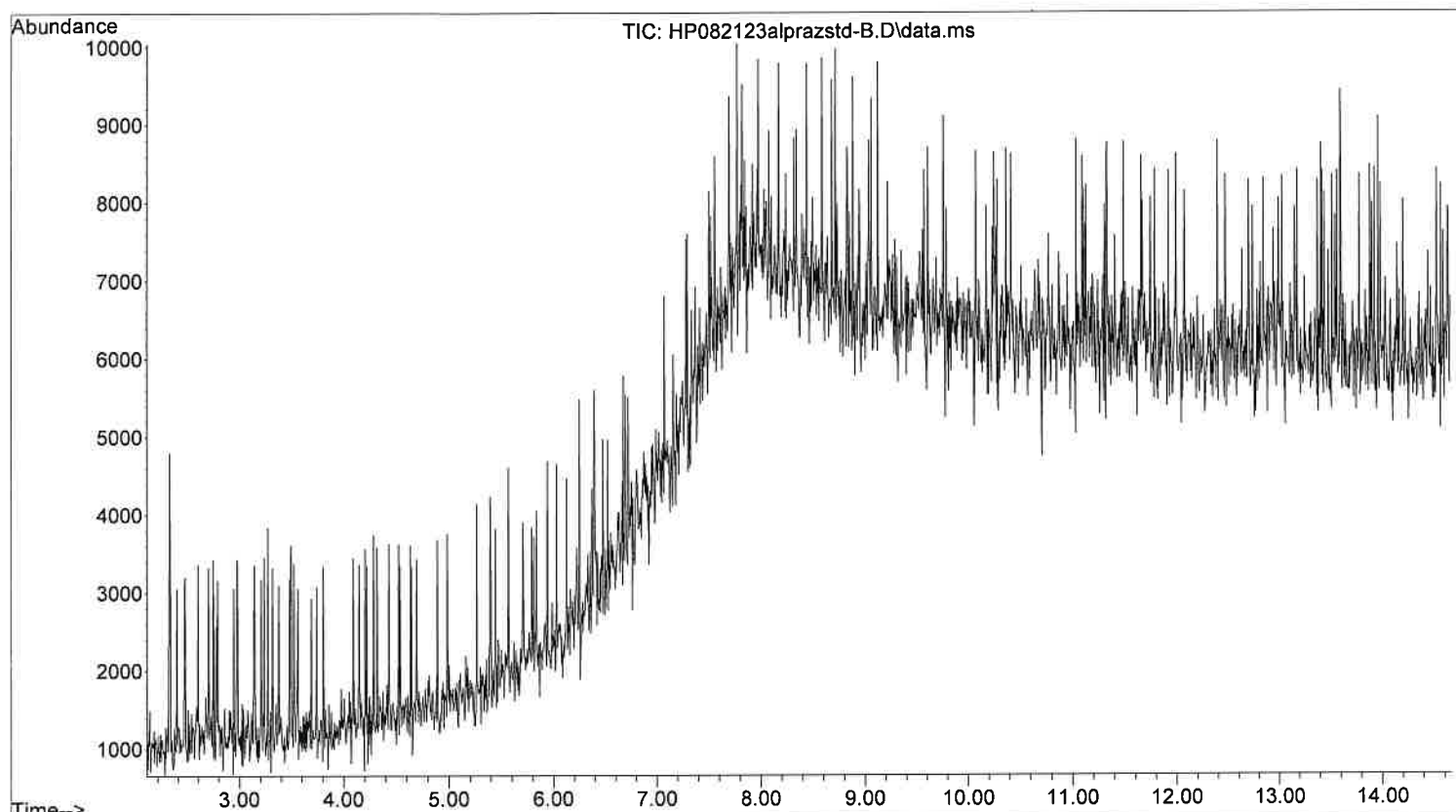
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123pmoxstd-B.D
Operator :
Acquired : 21 Aug 2023 10:54 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Chloroform Blank for P-MOX Standard
Misc Info :
Vial Number: 2



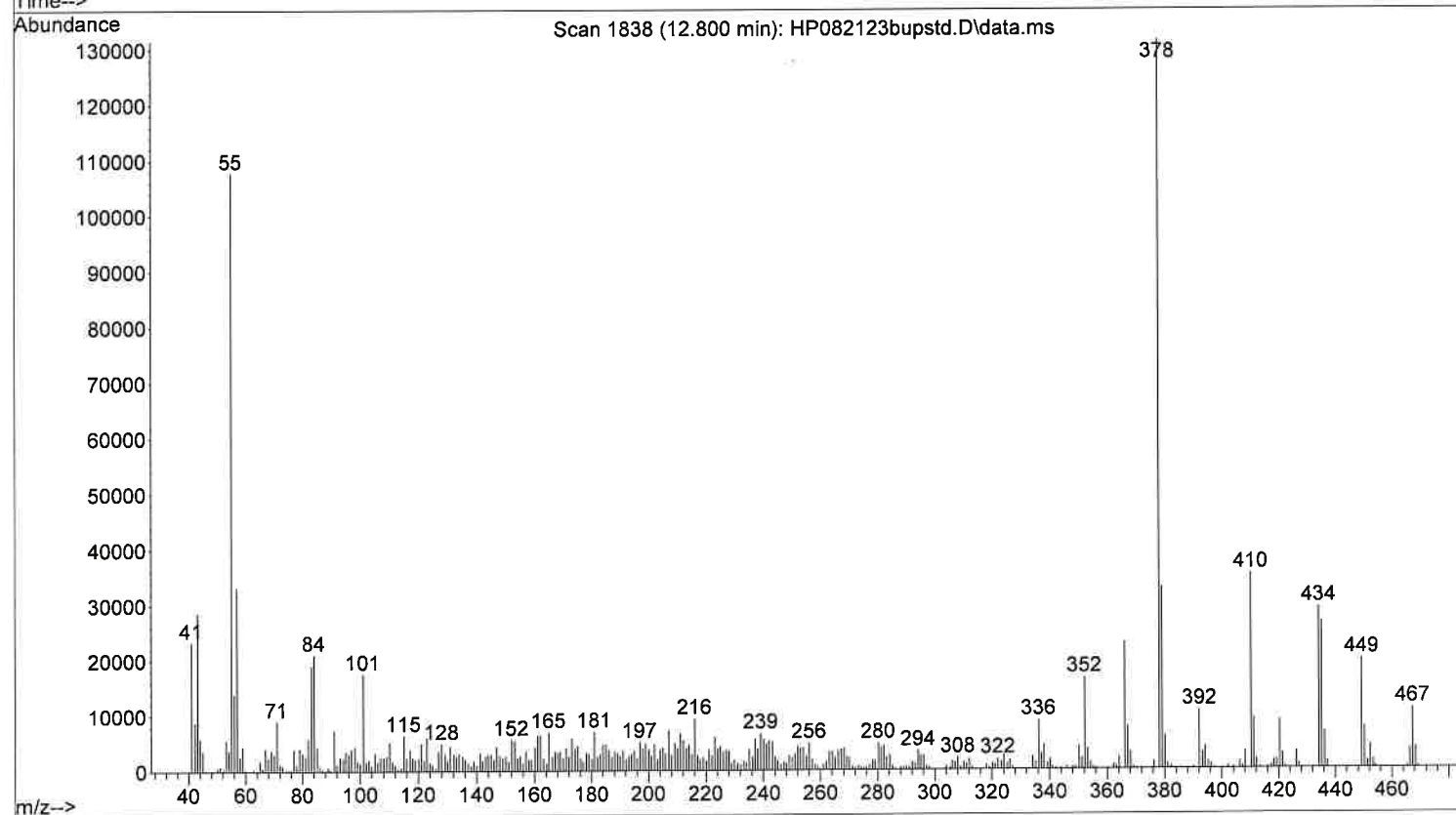
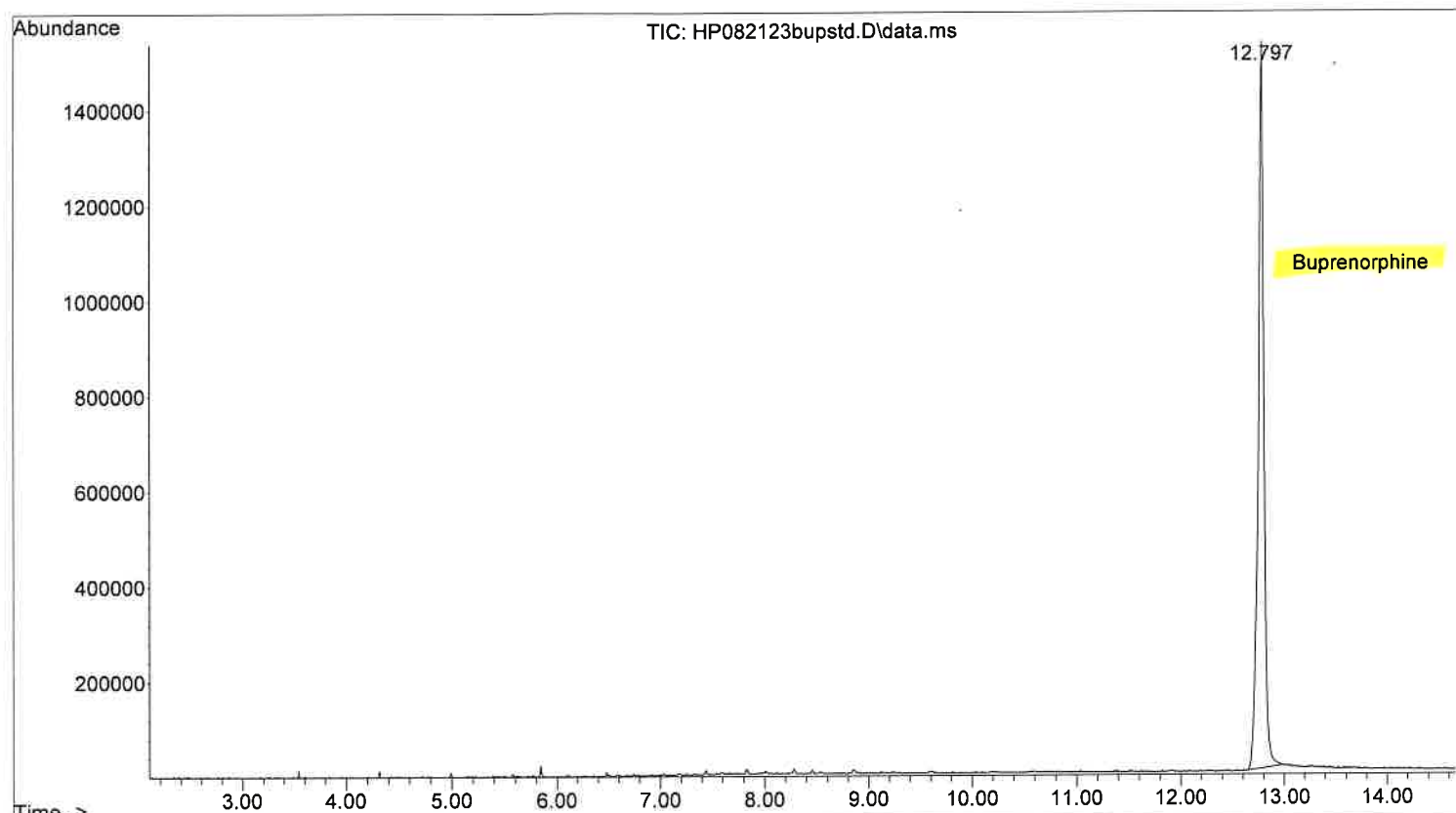
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123alprazstd.D
Operator :
Acquired : 21 Aug 2023 13:02 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Alprazolam Standard in Methanol
Misc Info :
Vial Number: 13



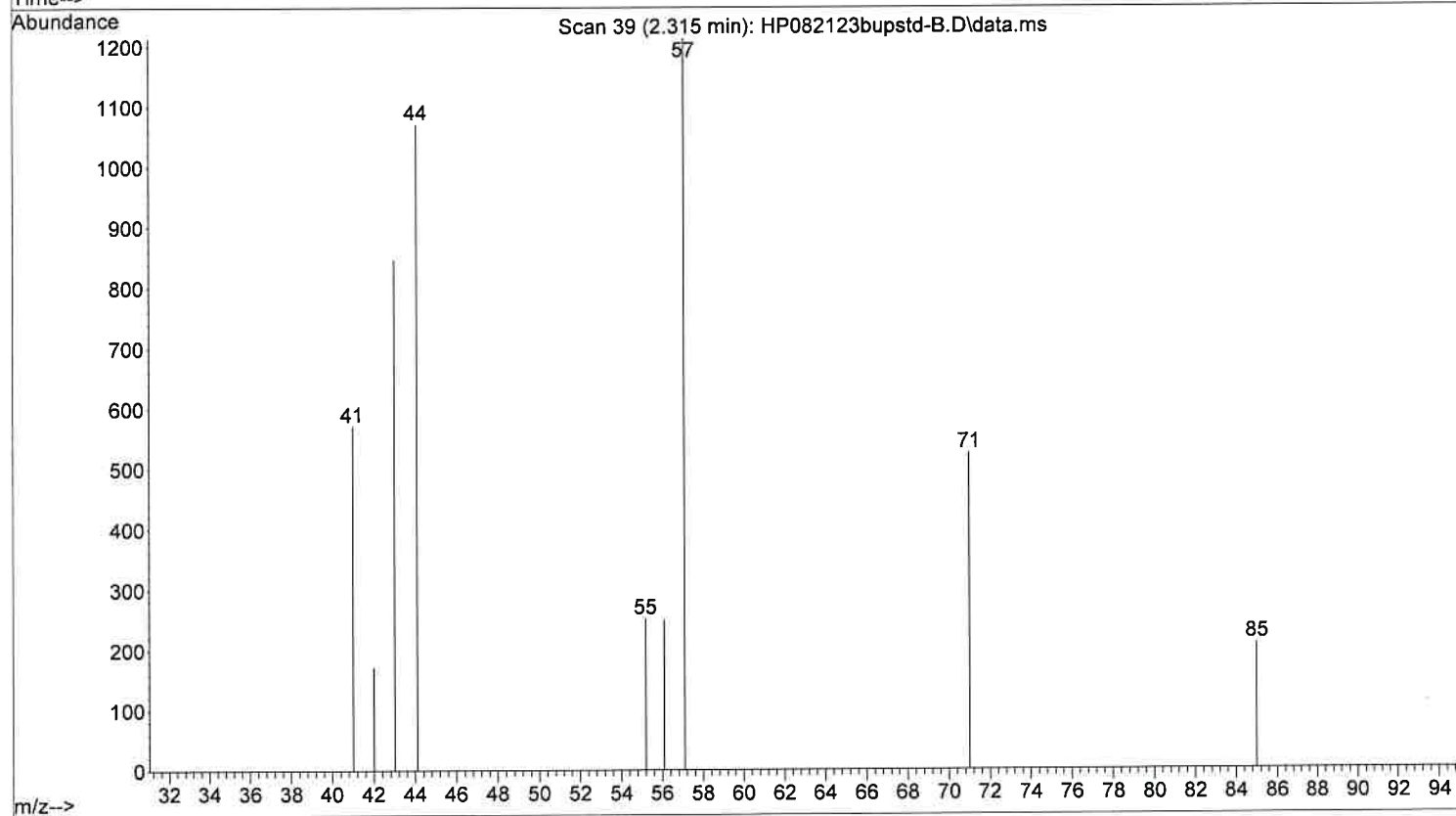
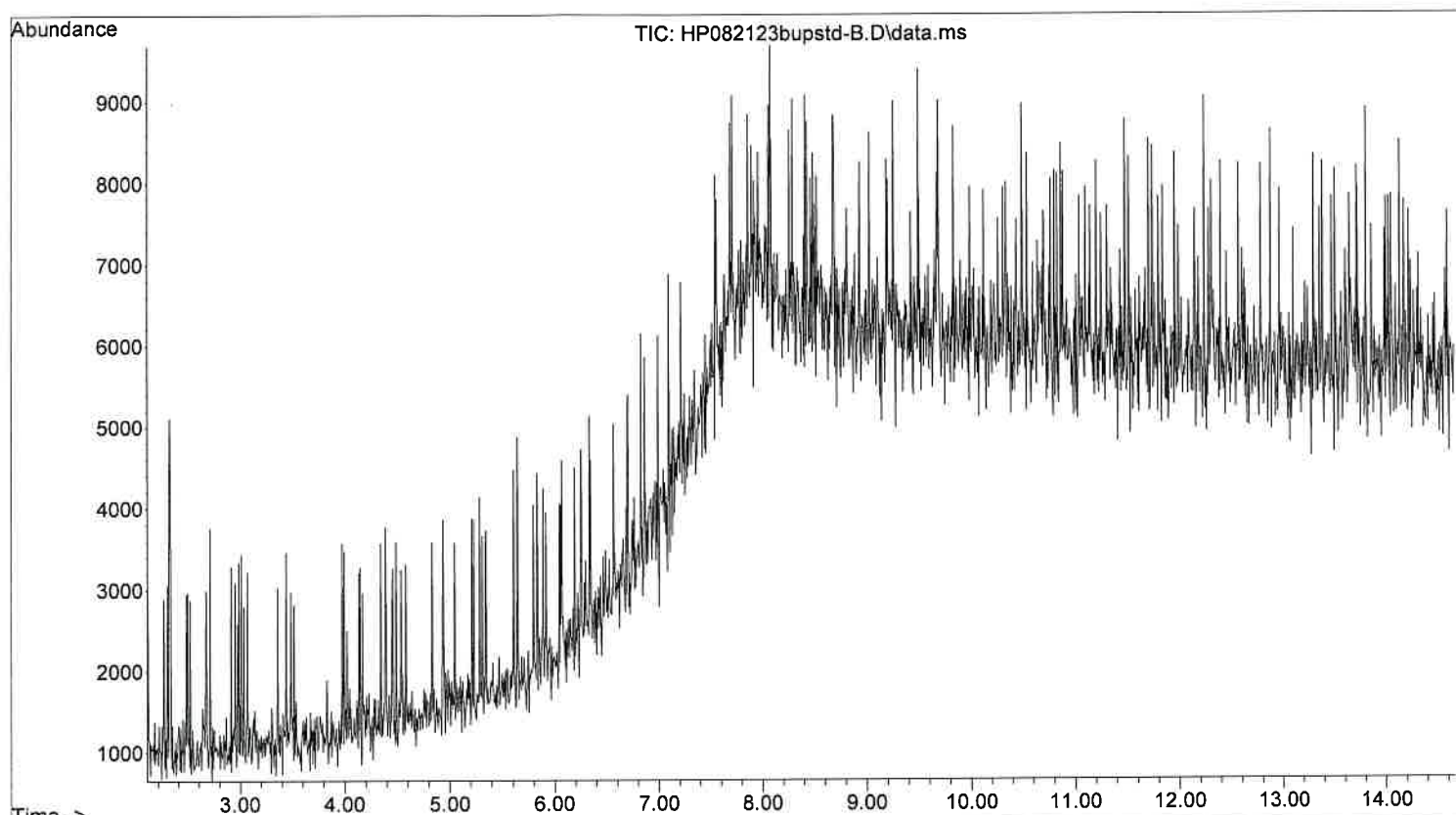
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... 123alprazstd-B.D
Operator :
Acquired : 21 Aug 2023 12:44 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Methanol Blank for Alprazolam Standard
Misc Info :
Vial Number: 1



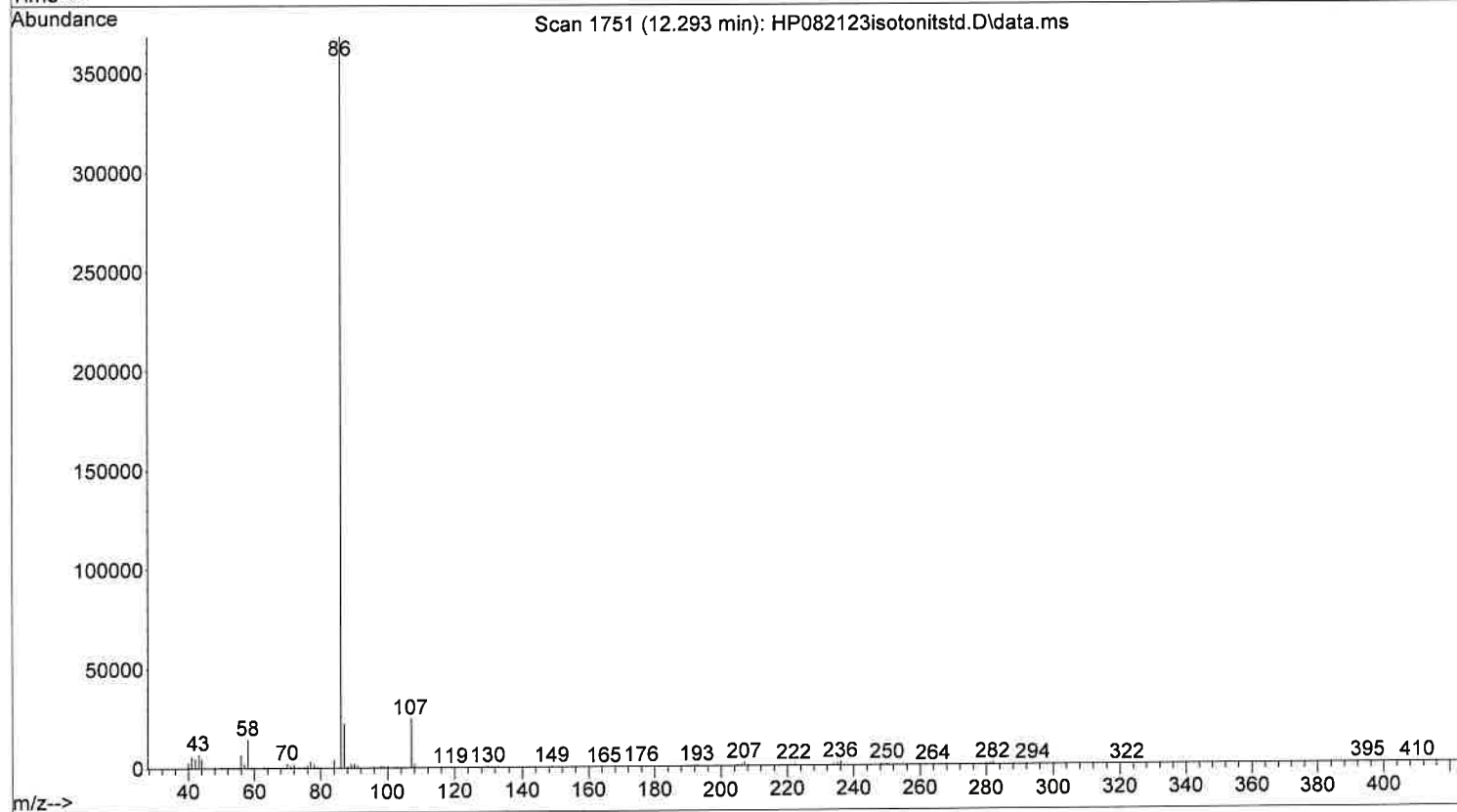
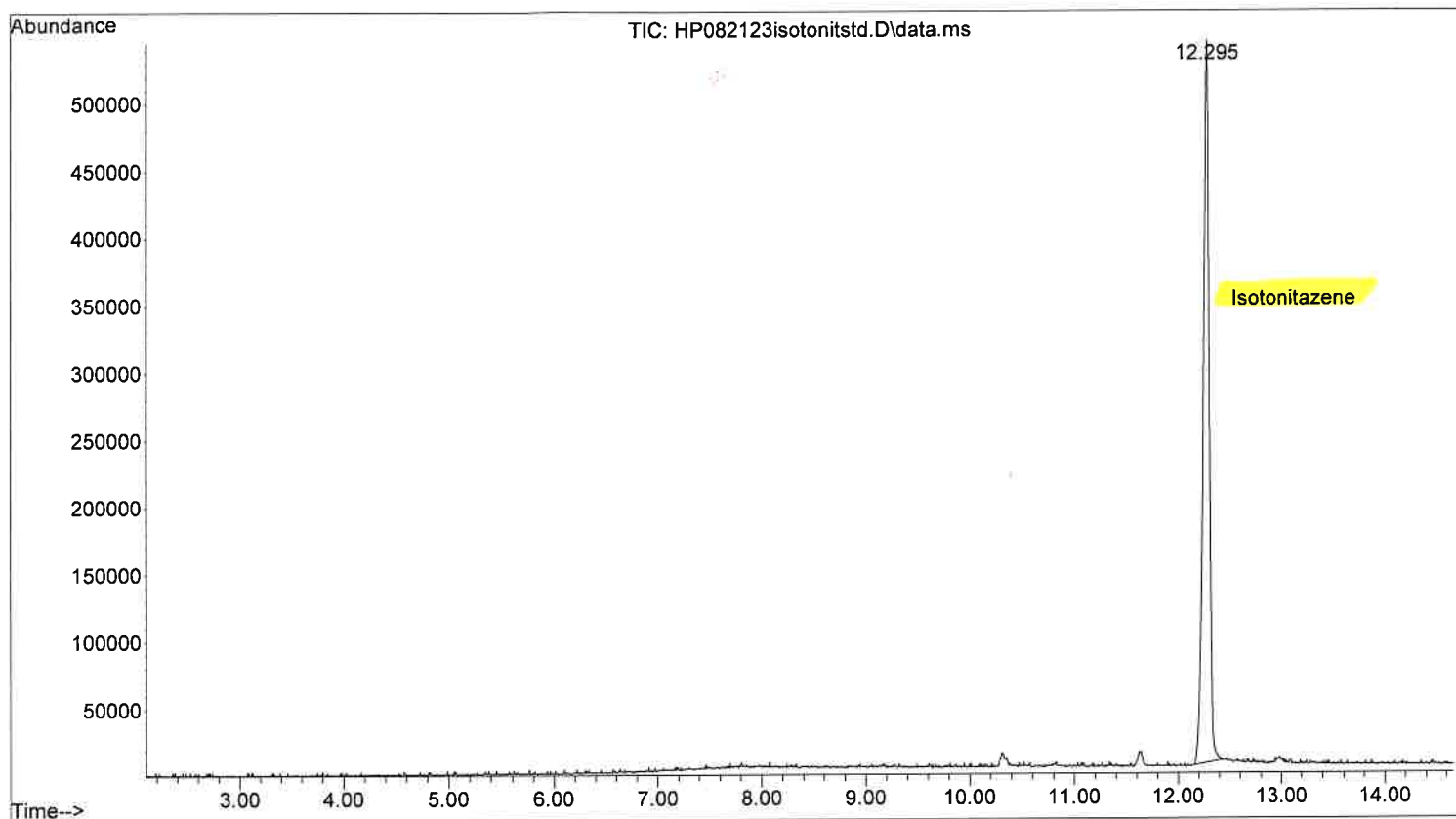
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123bupstd.D
Operator :
Acquired : 21 Aug 2023 13:57 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Buprenorphine Standard in Methanol
Misc Info :
Vial Number: 14



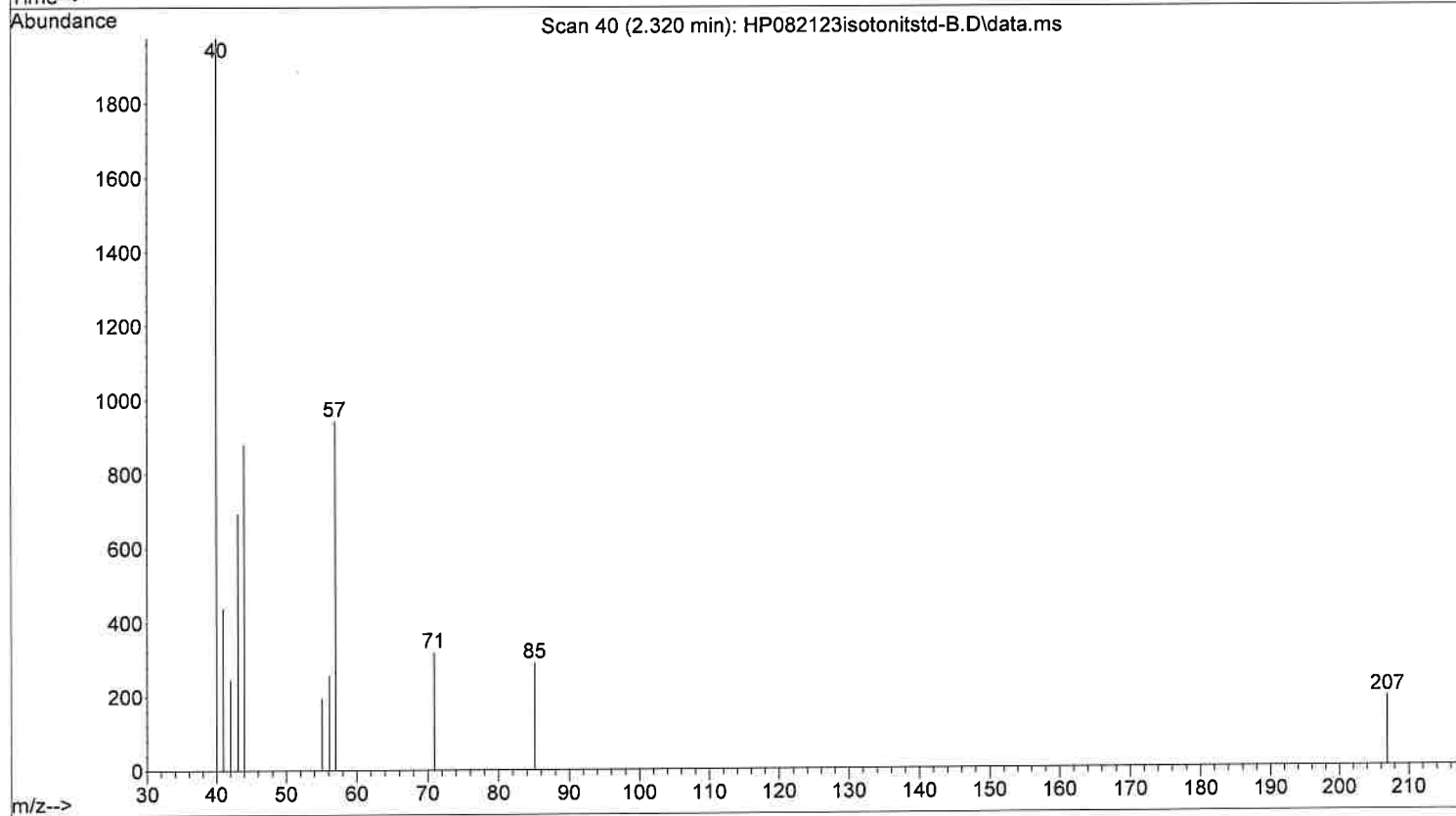
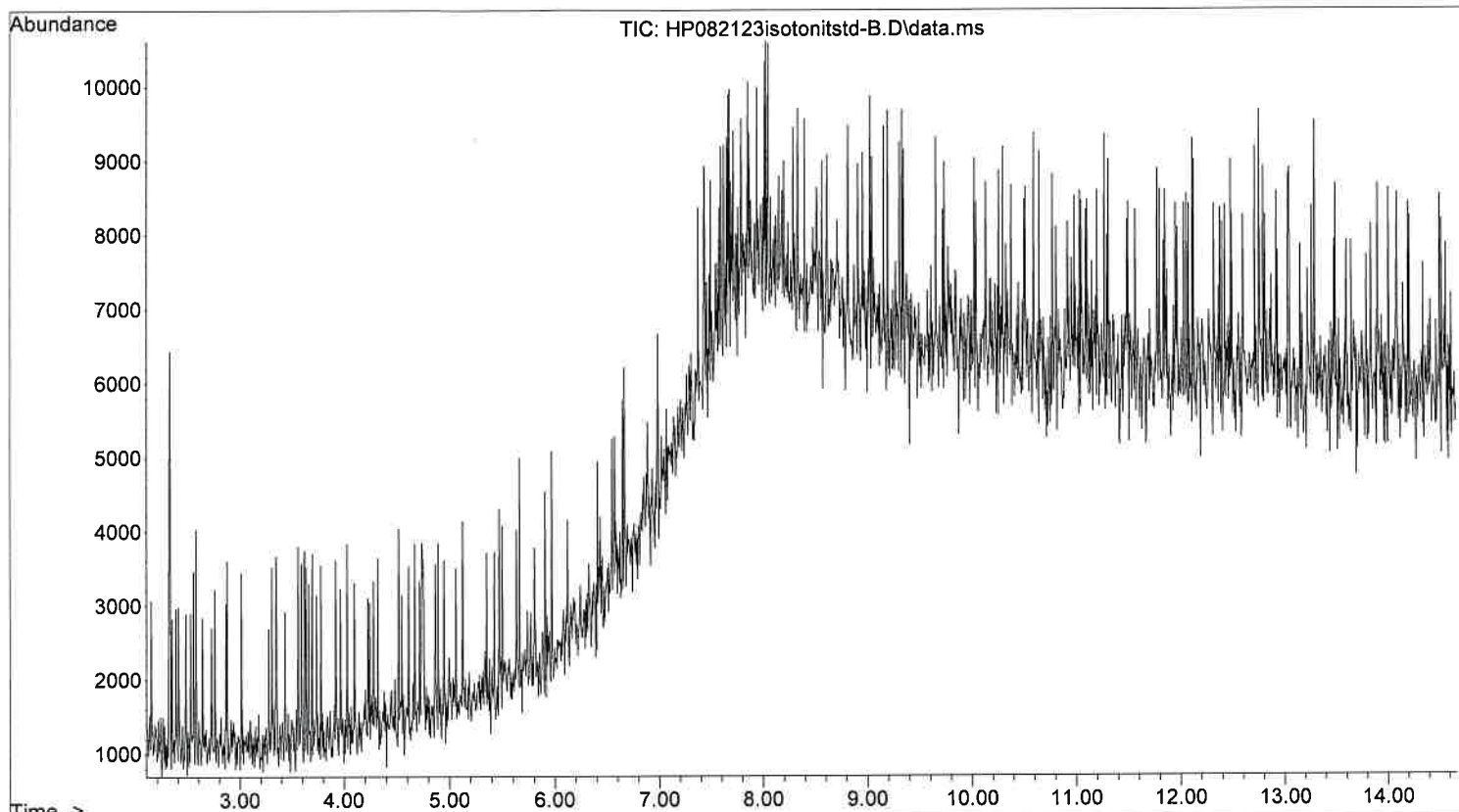
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... 123bupstd-B.D
Operator :
Acquired : 21 Aug 2023 13:39 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Methanol Blank for Buprenorphine Standard
Misc Info :
Vial Number: 1



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123isotonitstd.D
Operator :
Acquired : 21 Aug 2023 14:53 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Isotonitazene Standard
Misc Info :
Vial Number: 15



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 123isotonitstd-B.D
Operator :
Acquired : 21 Aug 2023 14:34 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Methanol Blank for Isotonitazene Standard
Misc Info :
Vial Number: 1



METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\DRUG1LC.M

Method Sections To Run:

(X) Save Copy of Method With Data
() Instrument Control Pre-Run Cmd/Macro =
() Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
() Data Analysis
() Instrument Control Post-Run Cmd/Macro =
() Data Analysis Post-Run Cmd/Macro =

Method Comments:

LOW CON

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\DRUG1LC.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	2.50
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
2.50	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
------	---------------	-----------

Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\DRUG1LC.M

Thu Aug 24 15:37:33 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC

GC Summary

Run Time 14.667 min
Post Run Time 0 min

Oven

Temperature
Setpoint On
(Initial) 80 °C
Hold Time 1.5 min
Post Run 0 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 6.5 min

Equilibration Time 0 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS

Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 0
Sample Wash Volume 8 µL
Sample Pumps 2
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 3000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 3000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 0 sec
Sample Depth Disabled
Injection Type Standard
L1 Airgap 0.2 µL

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 12 psi
Septum Purge Flow	On 5.5044 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	1 :1
Liner	1.2522 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	Off
Pre-Run Flow Test	Off
Liner	Off
	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.2522 mL/min
Post Run	1 mL/min
Column Information	Agilent 128-0112
Description	DB-lms

Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	80 °C
Pressure	12 psi
Flow	1.2522 mL/min
Average Velocity	65.404 cm/sec
Holdup Time	0.30579 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None
Signal #8:	
Description	None

TUNE PARAMETERS for SN: US2312MA32

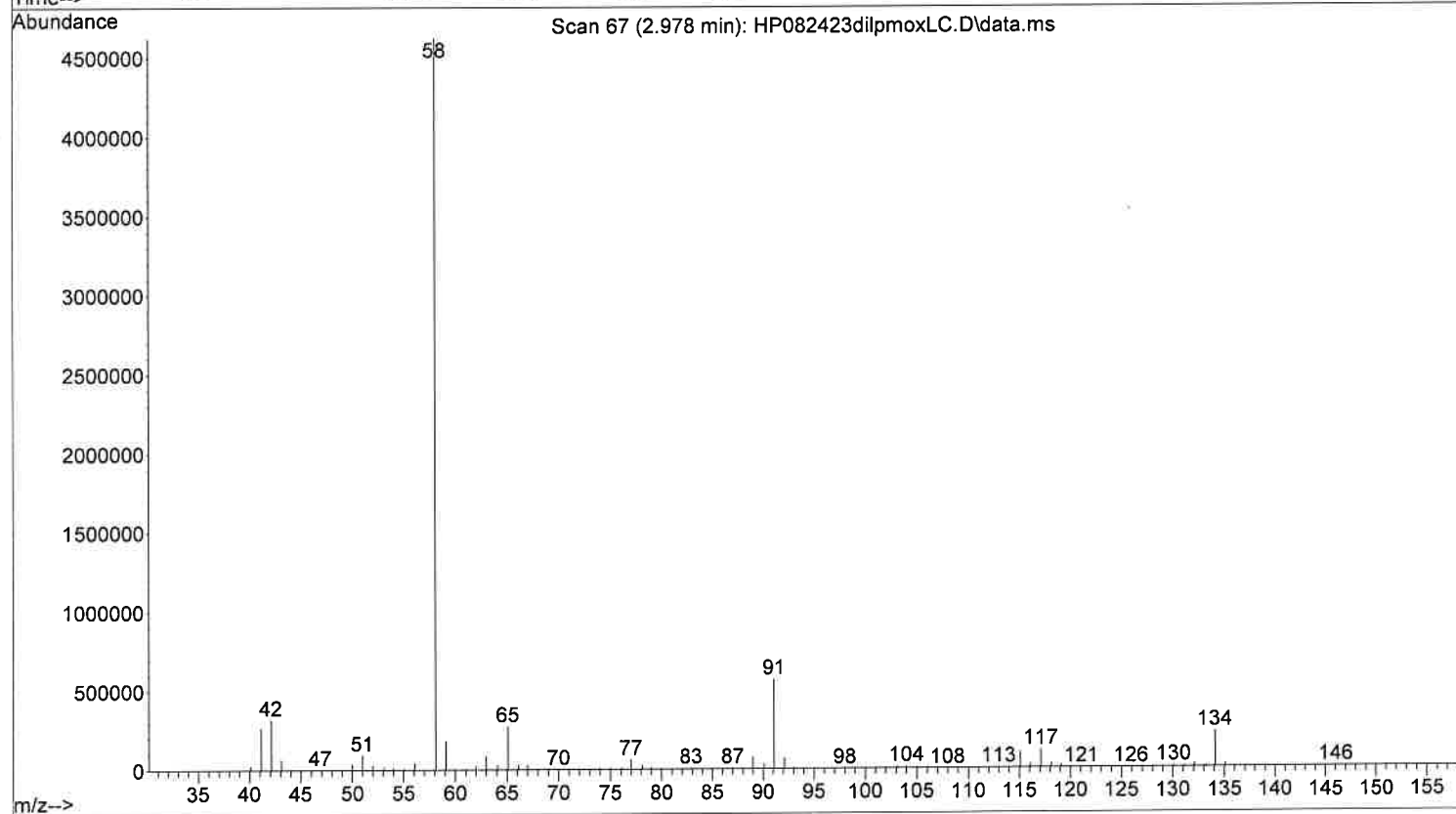
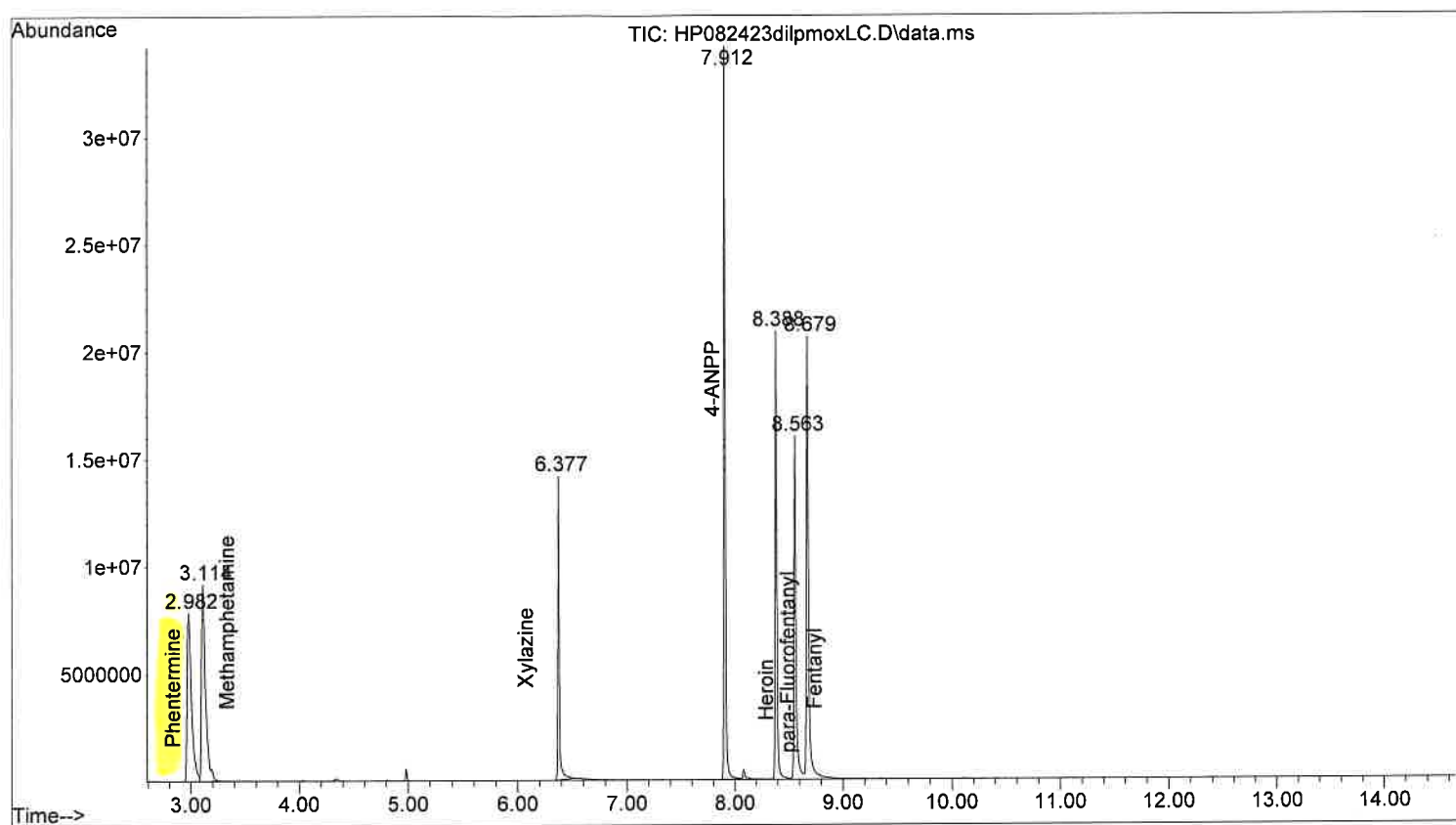
Trace Ion Detection is OFF.

34.593	:	EMISSION	
70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
0.000	:	Ion_Body	
0.000	:	EXTLENS	
198.000	:	MASSGAIN	
-24.000	:	MASSOFFSET	

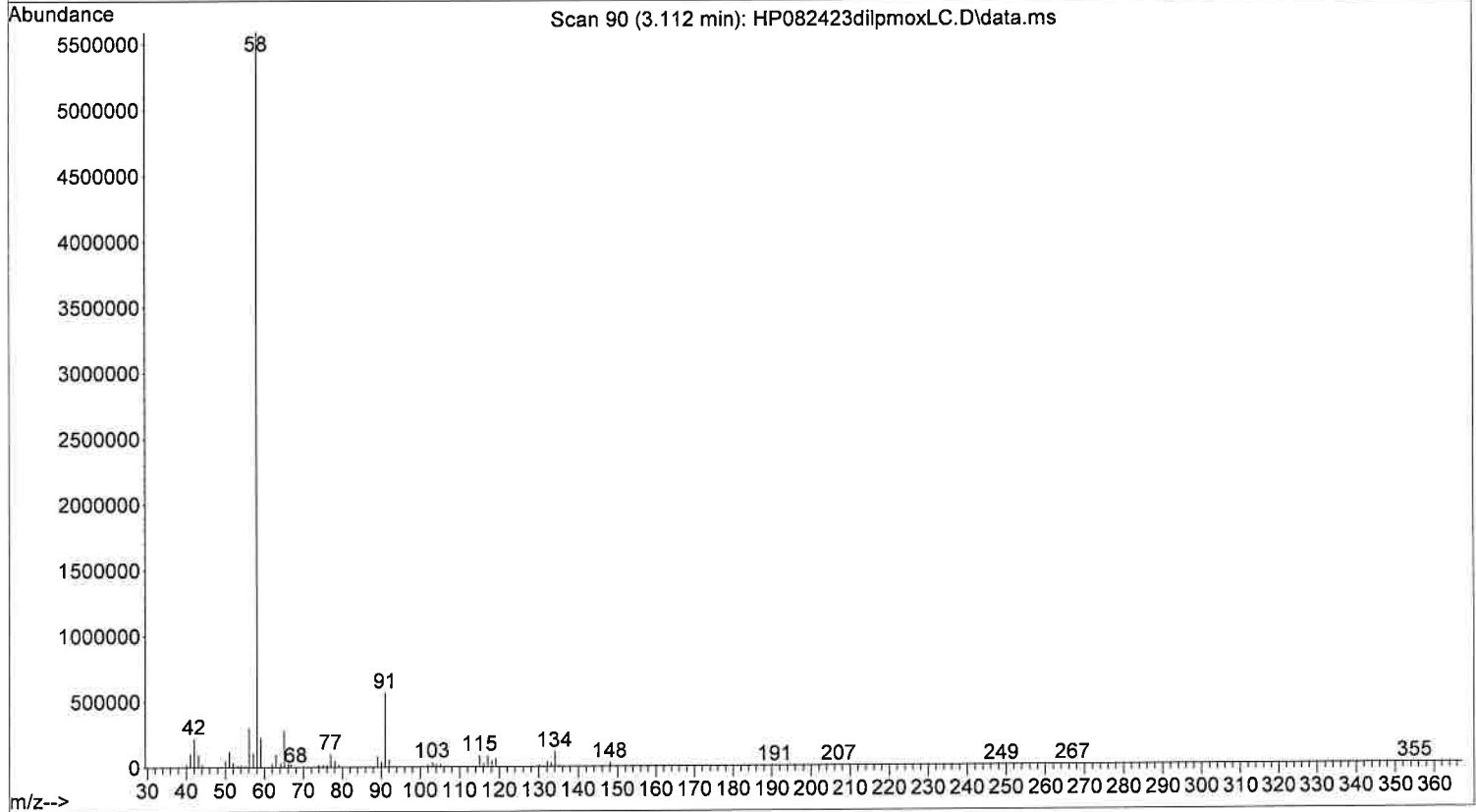
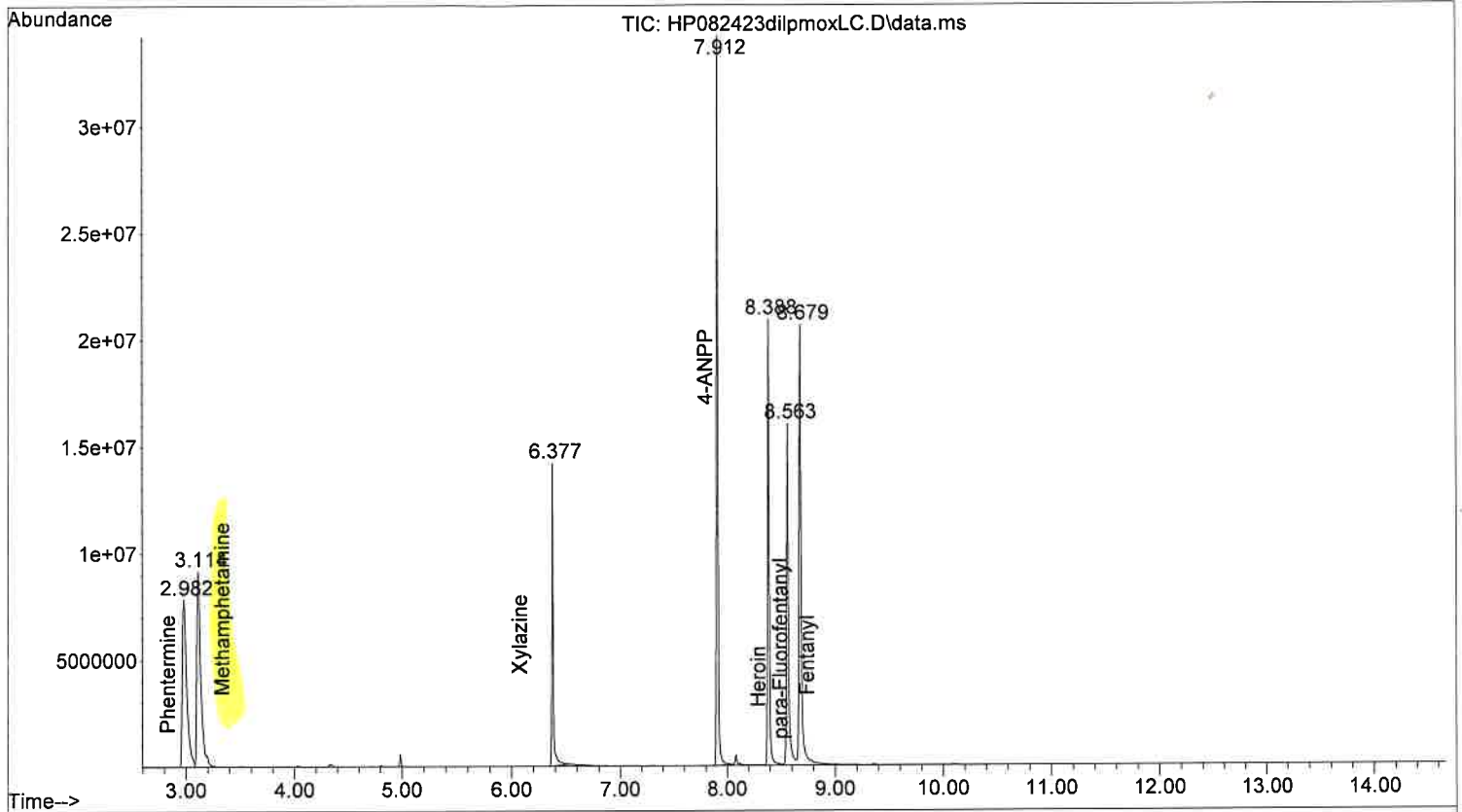
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

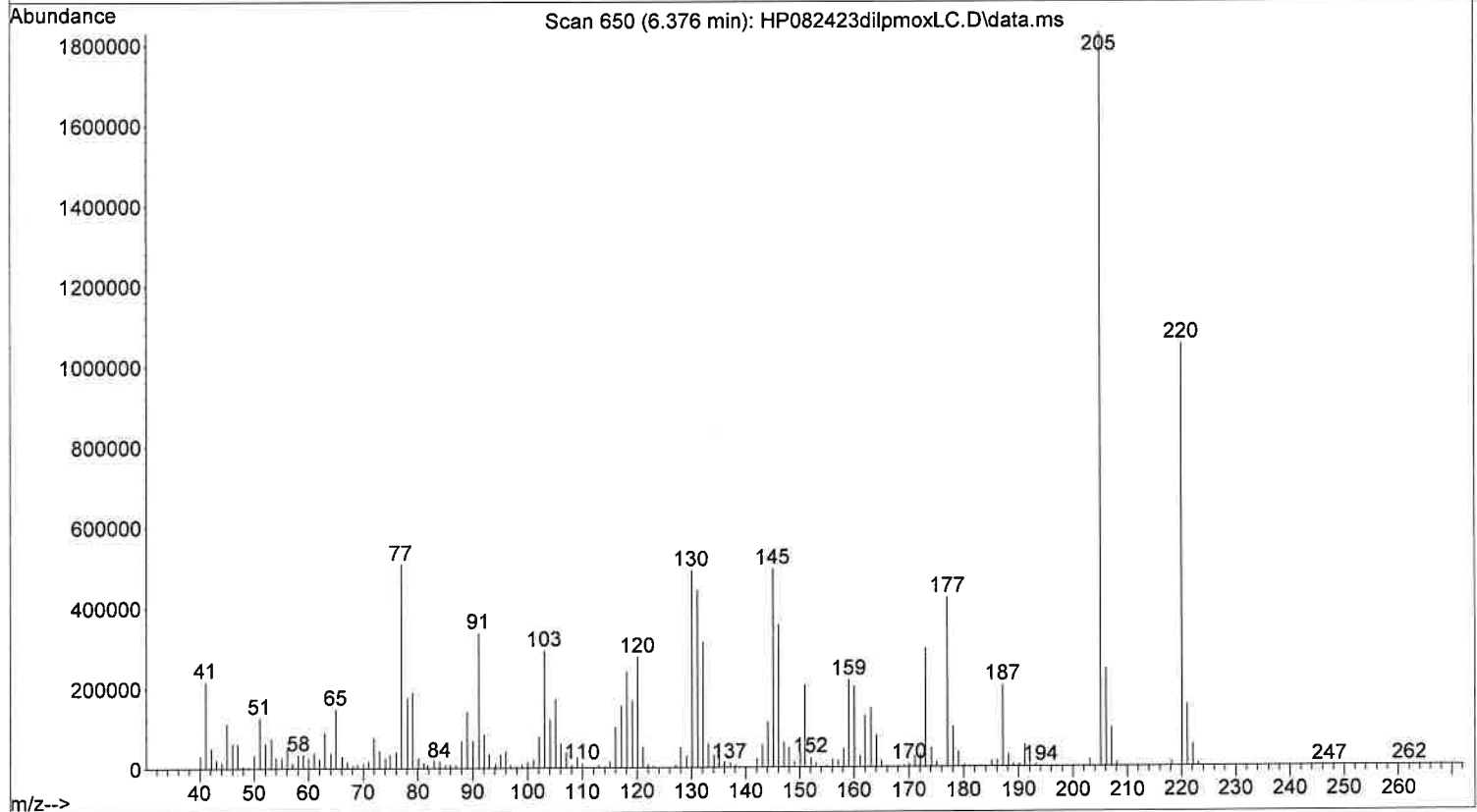
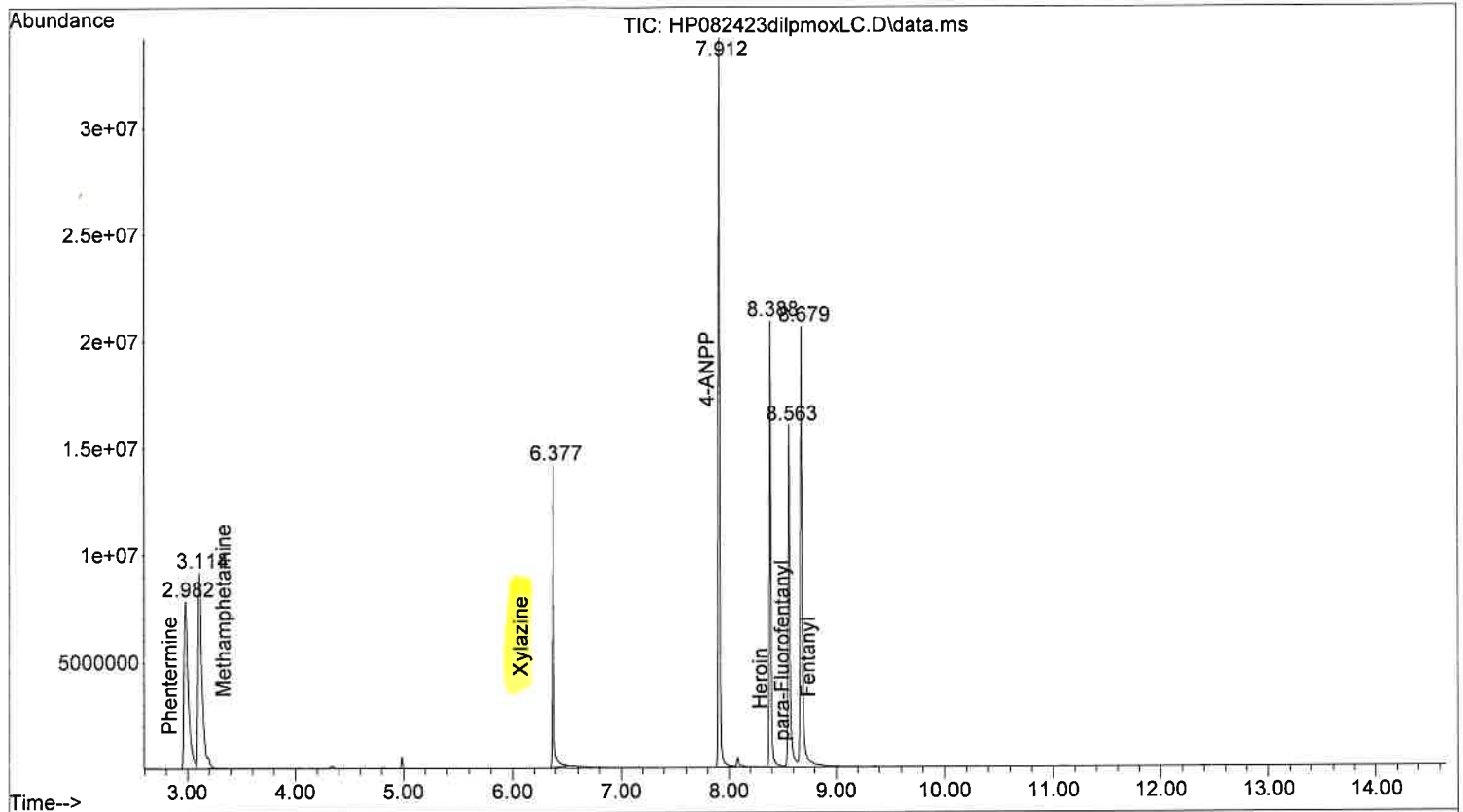
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... 423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



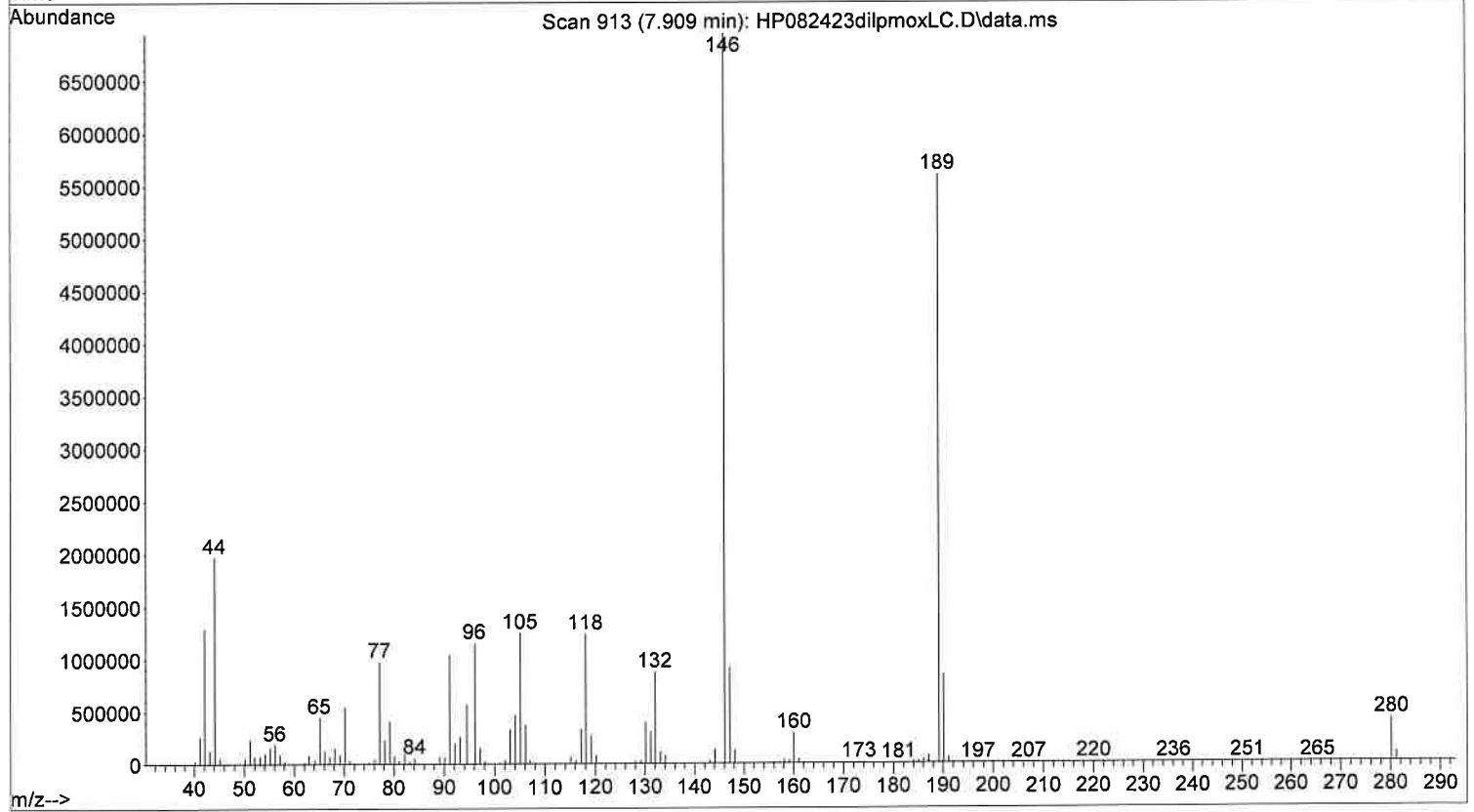
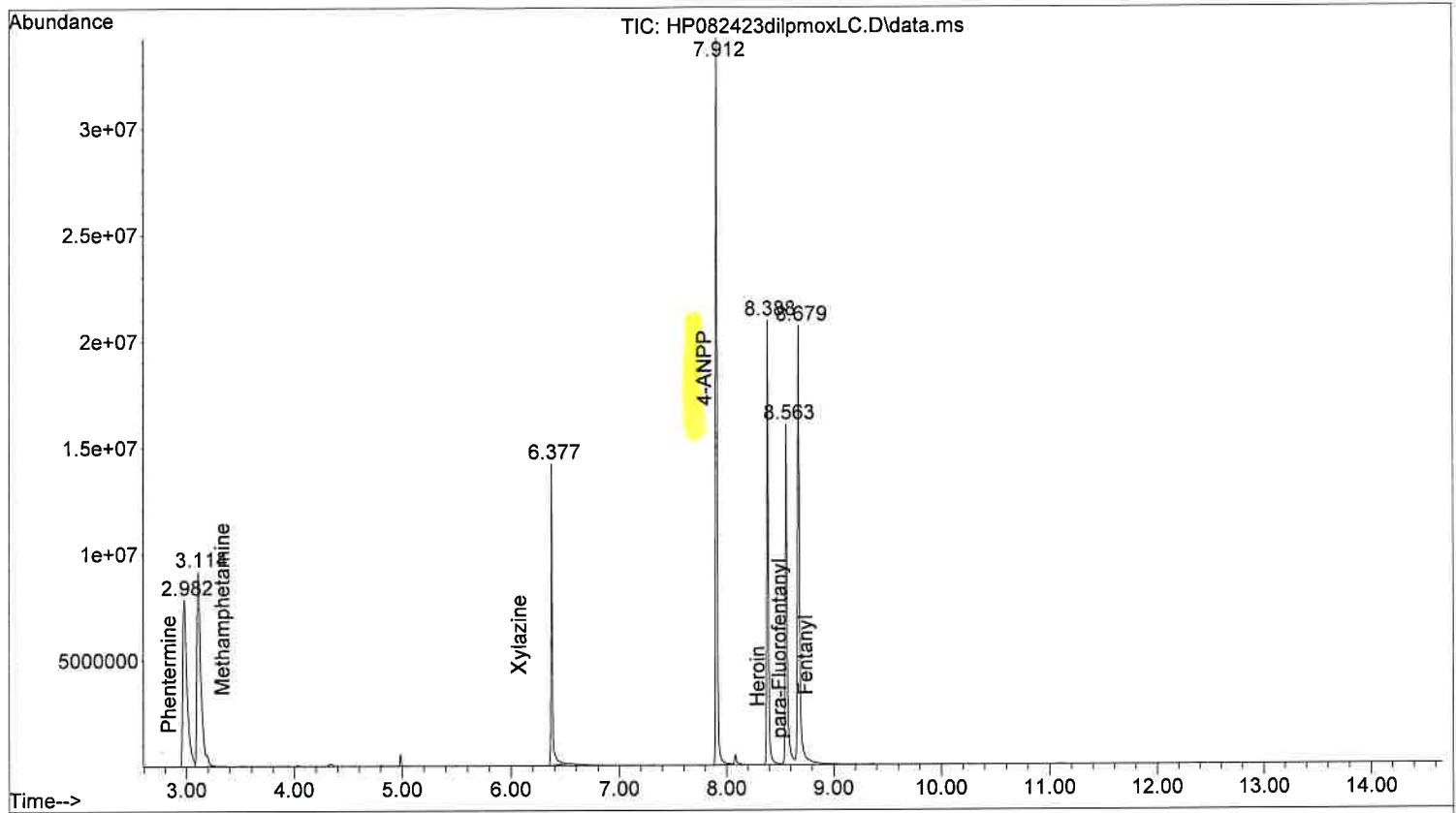
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... 423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



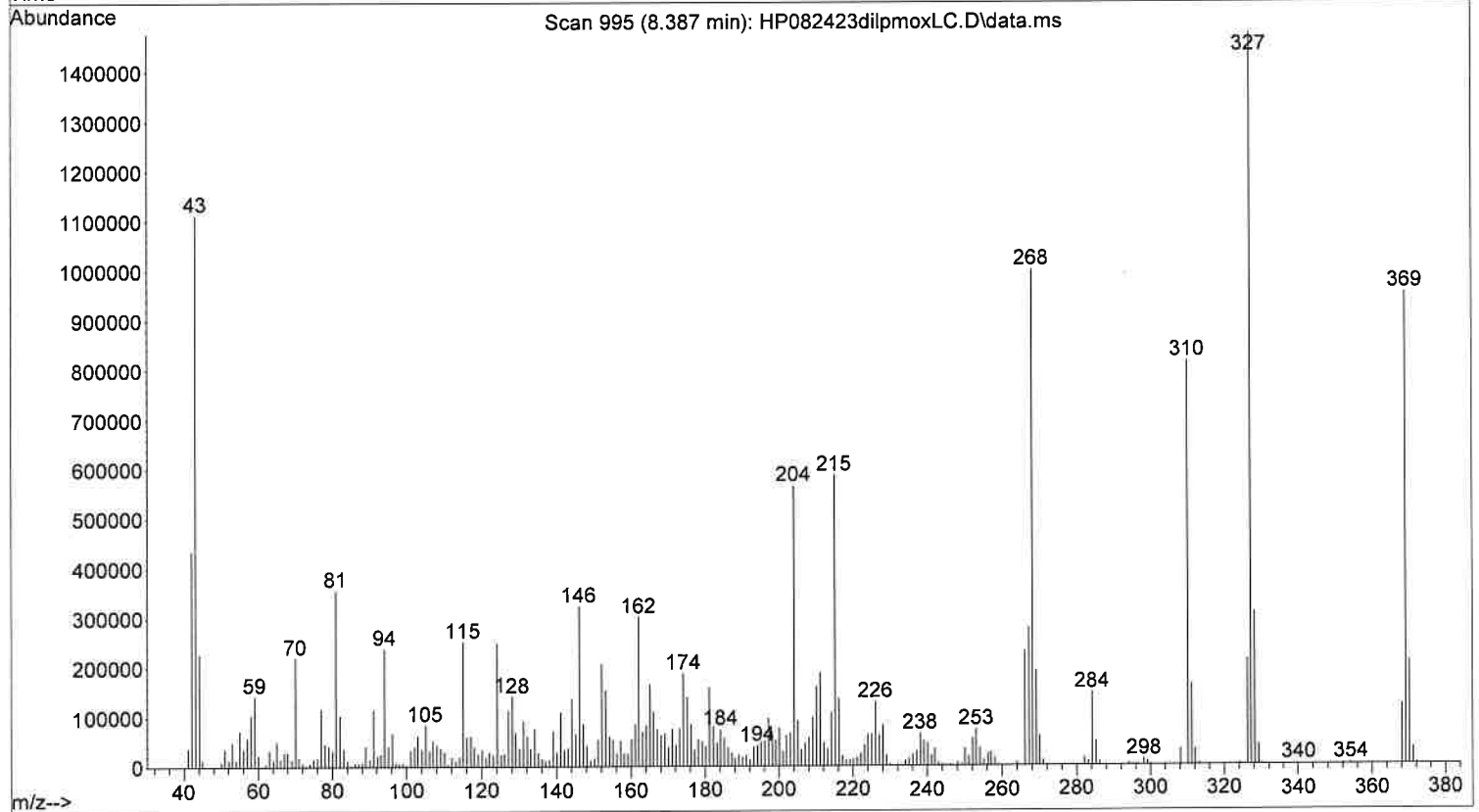
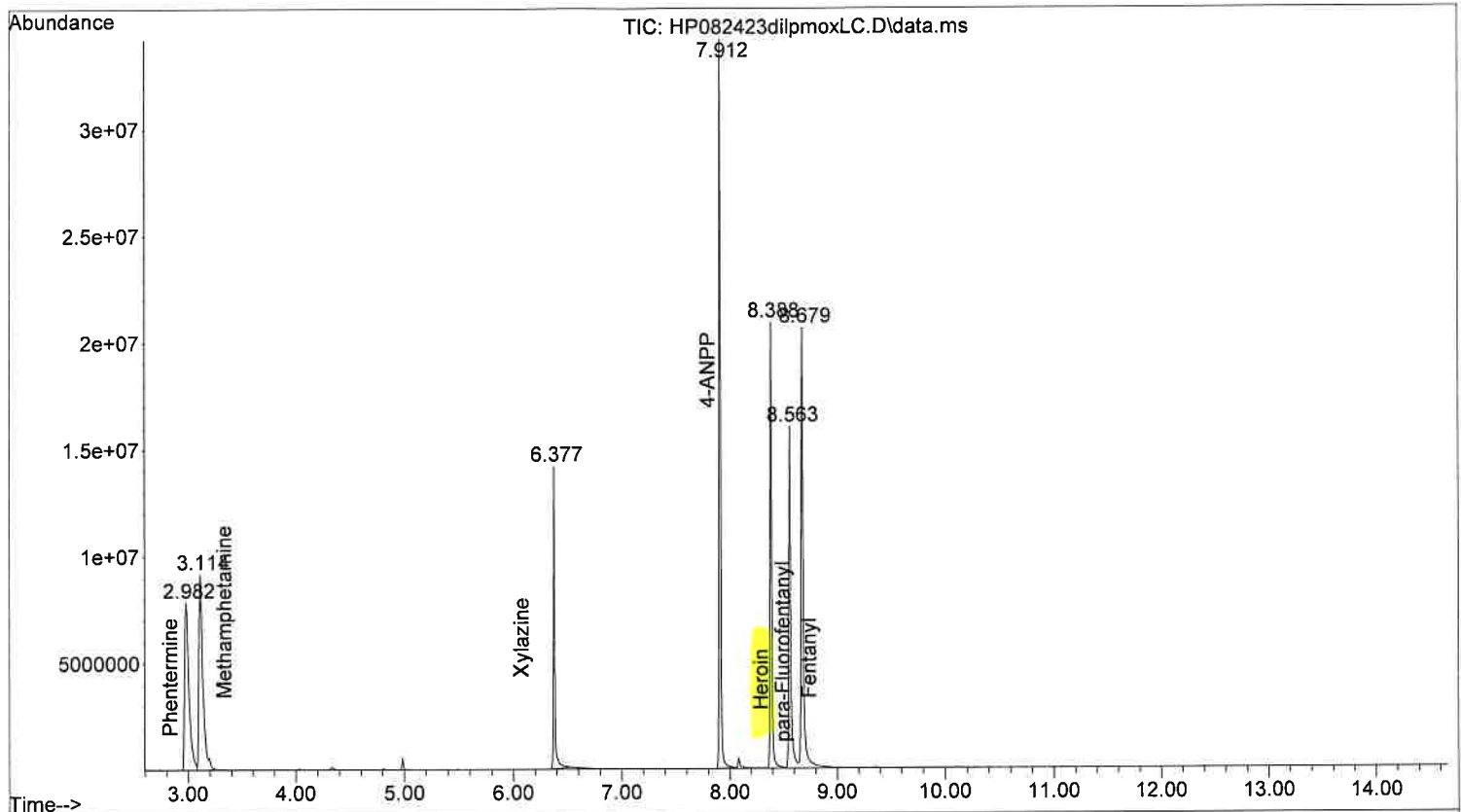
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Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



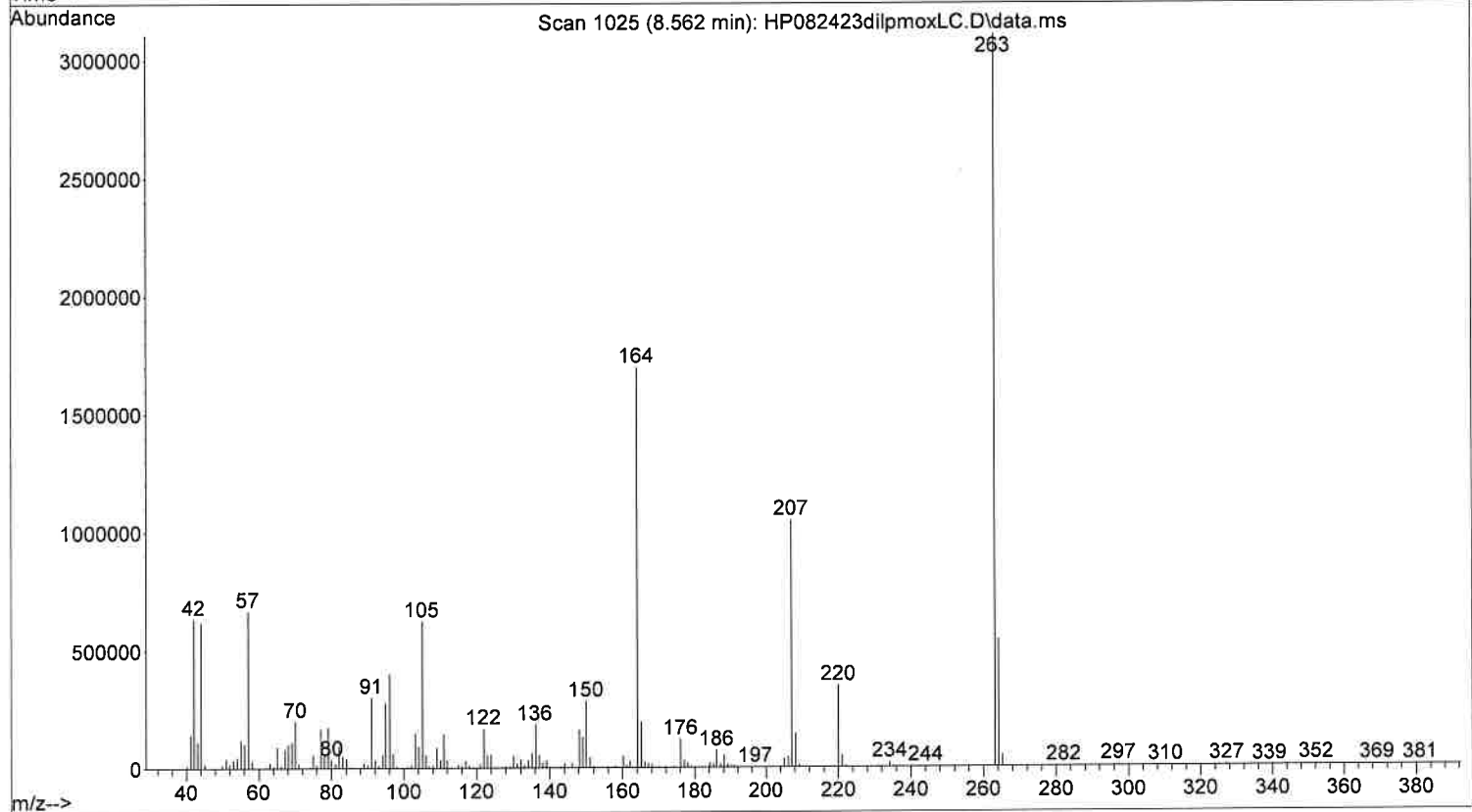
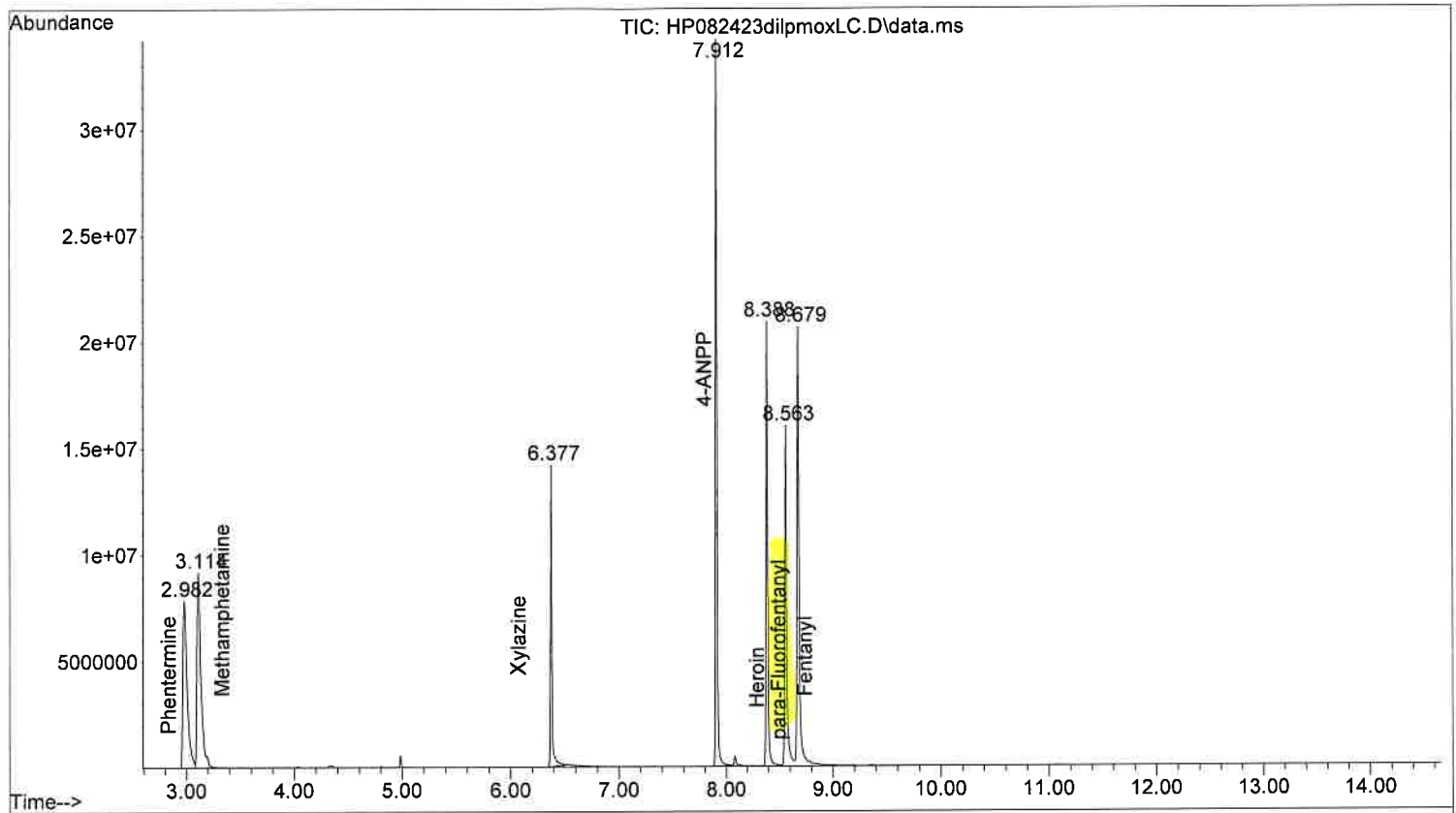
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... 423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



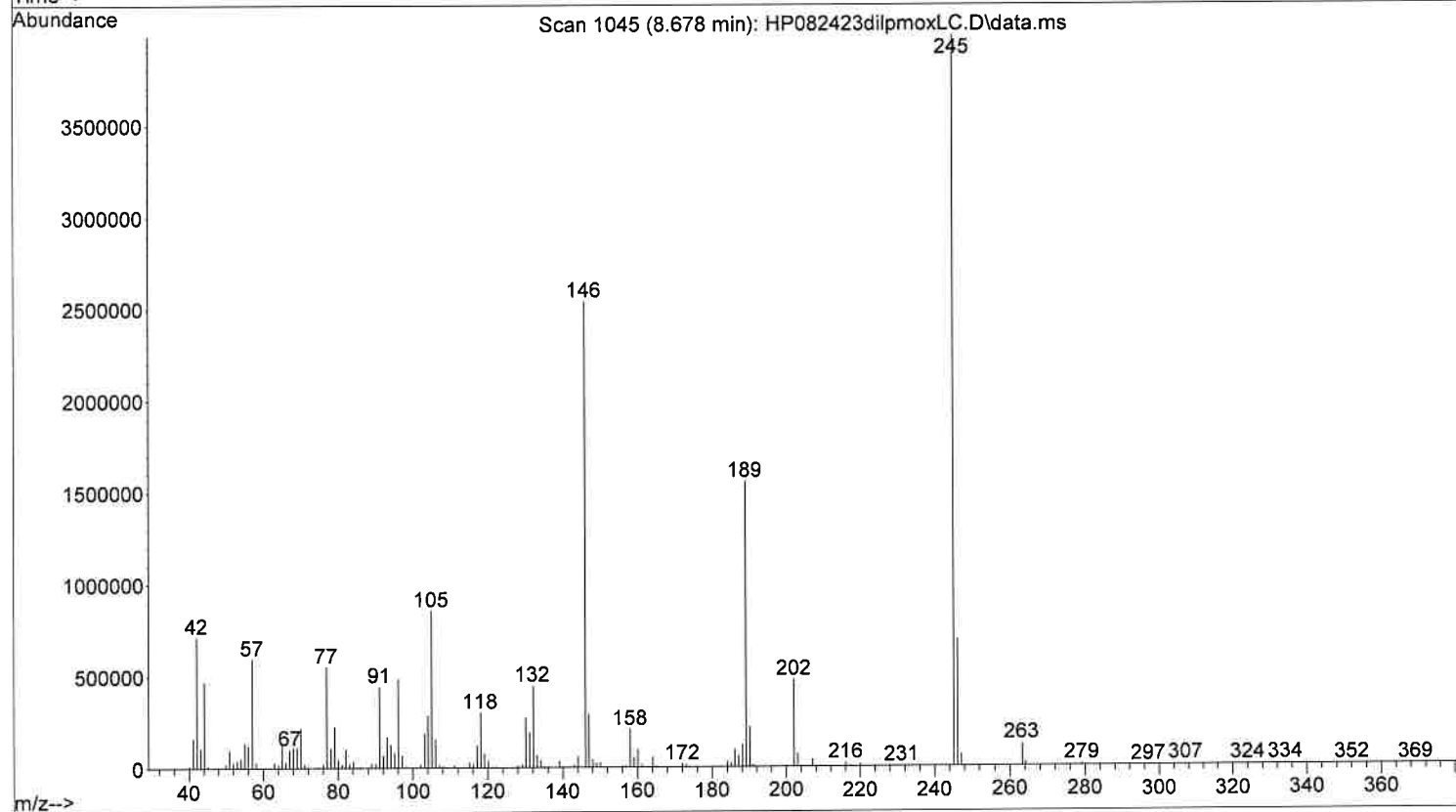
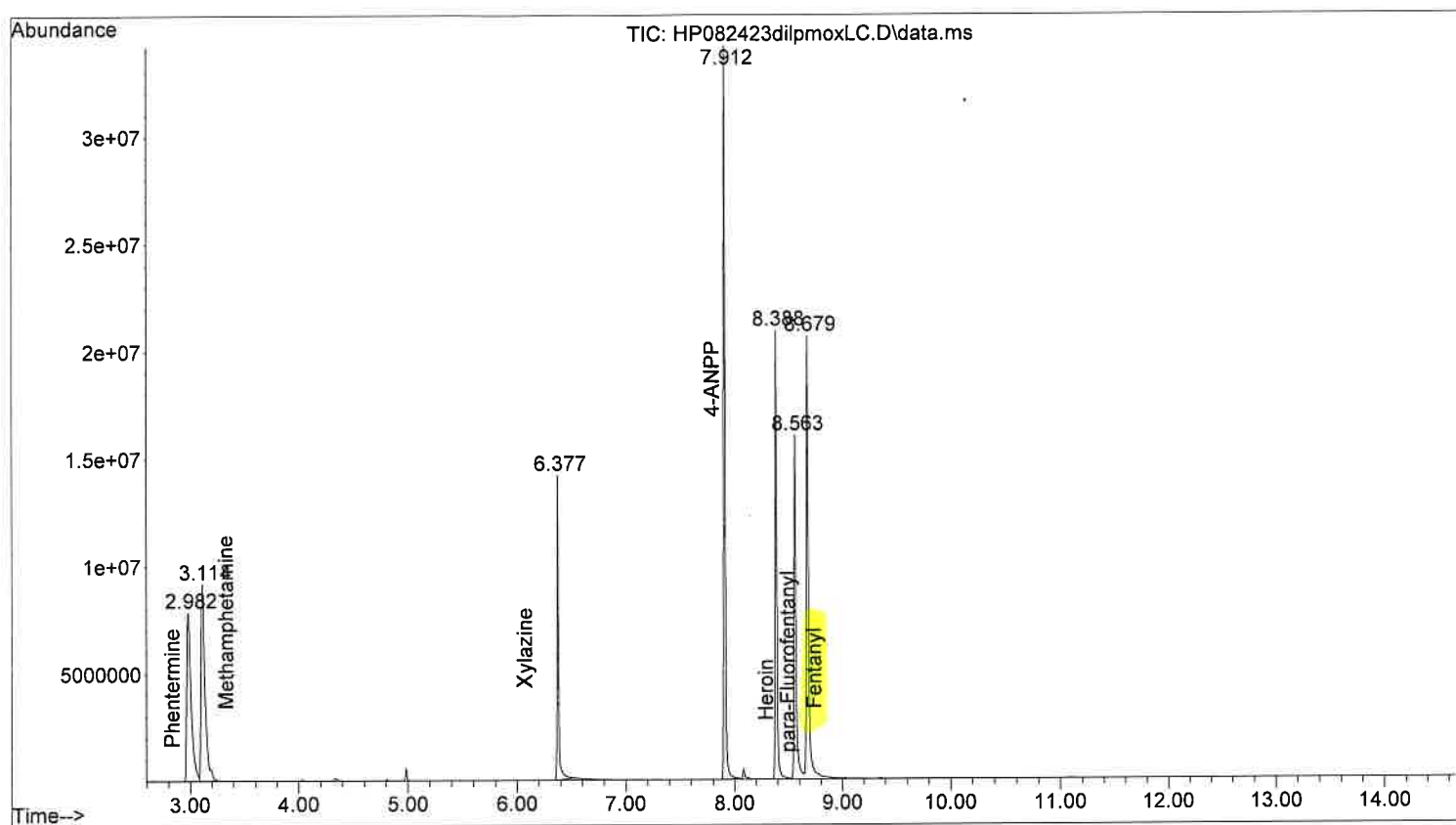
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... 423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



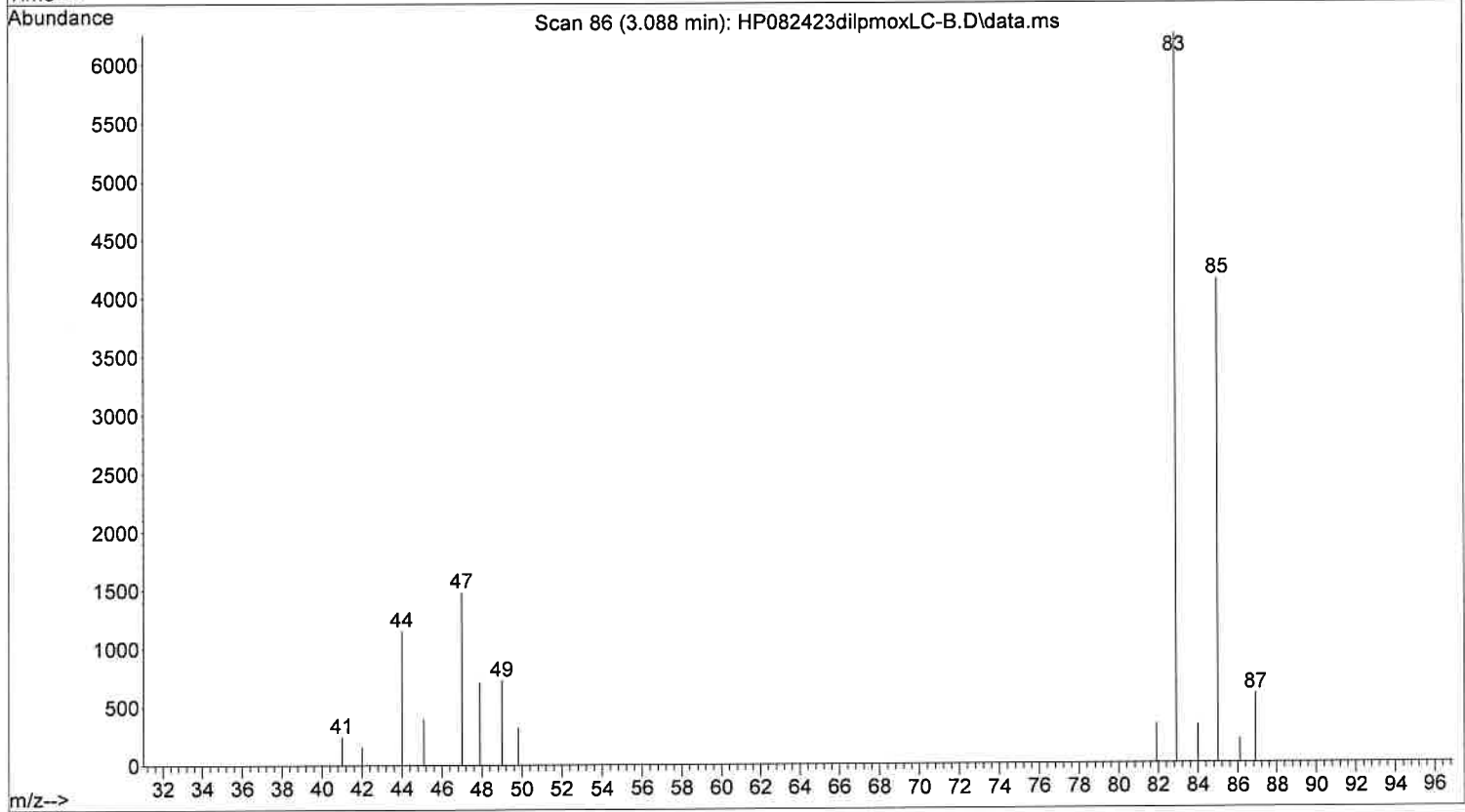
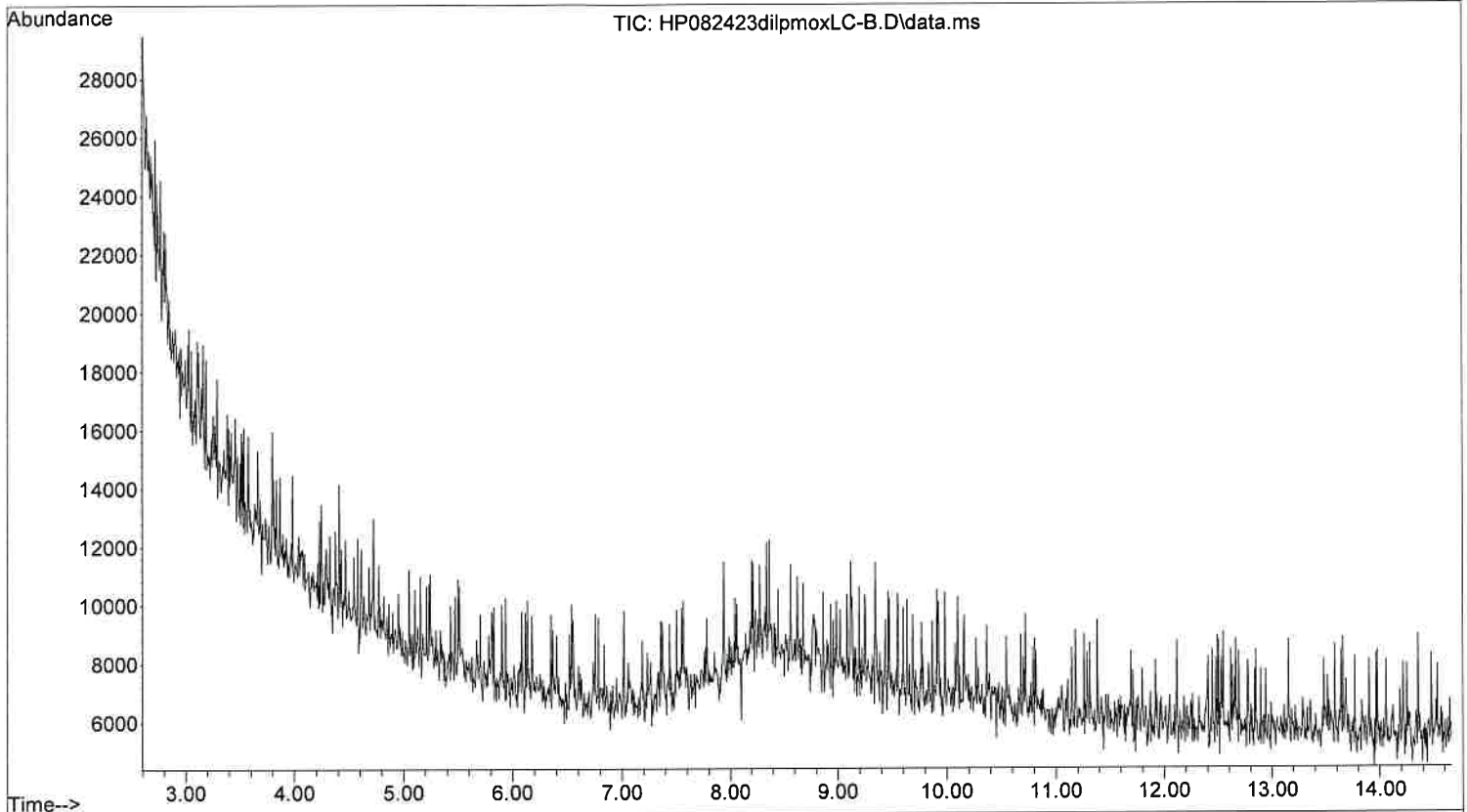
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... 423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



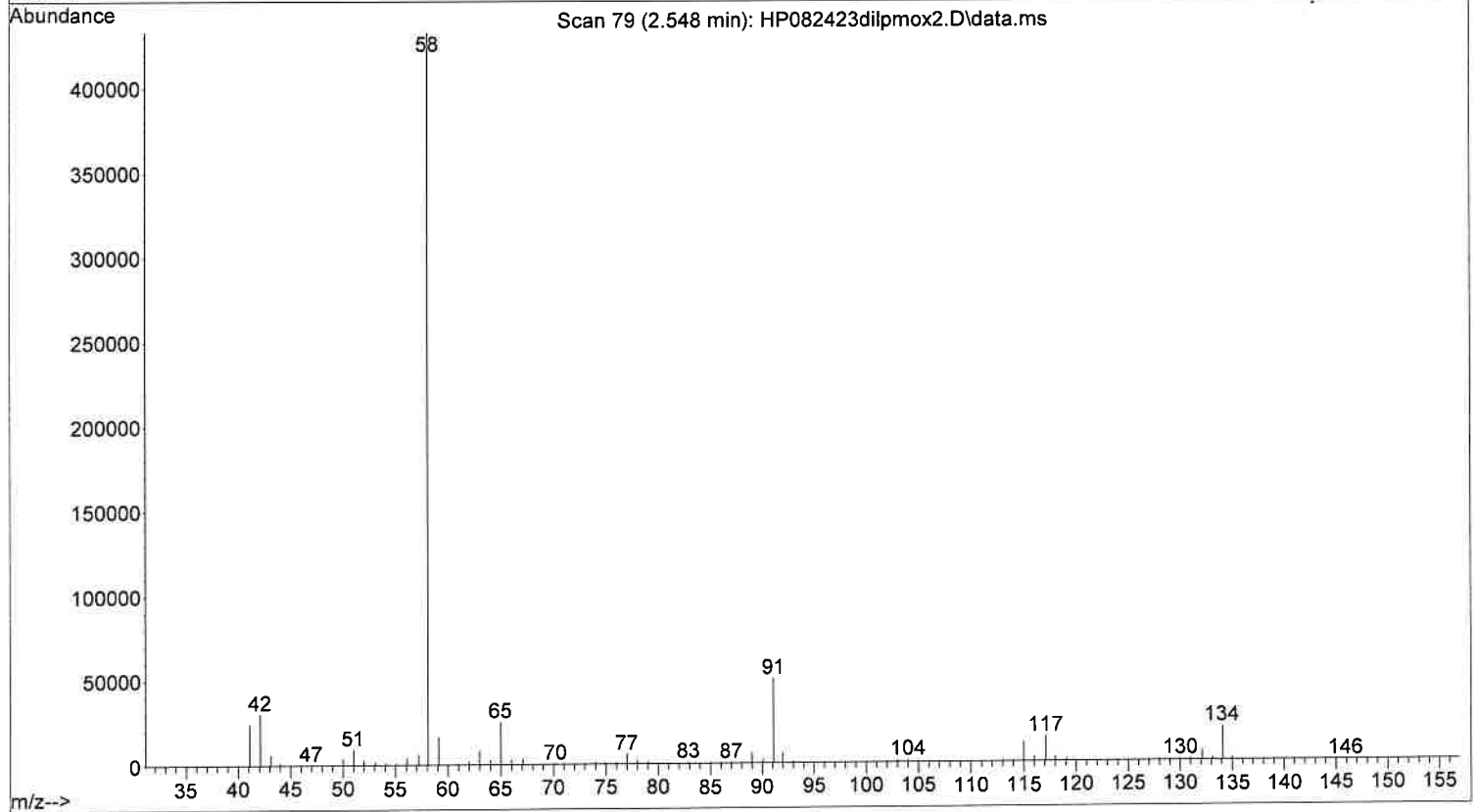
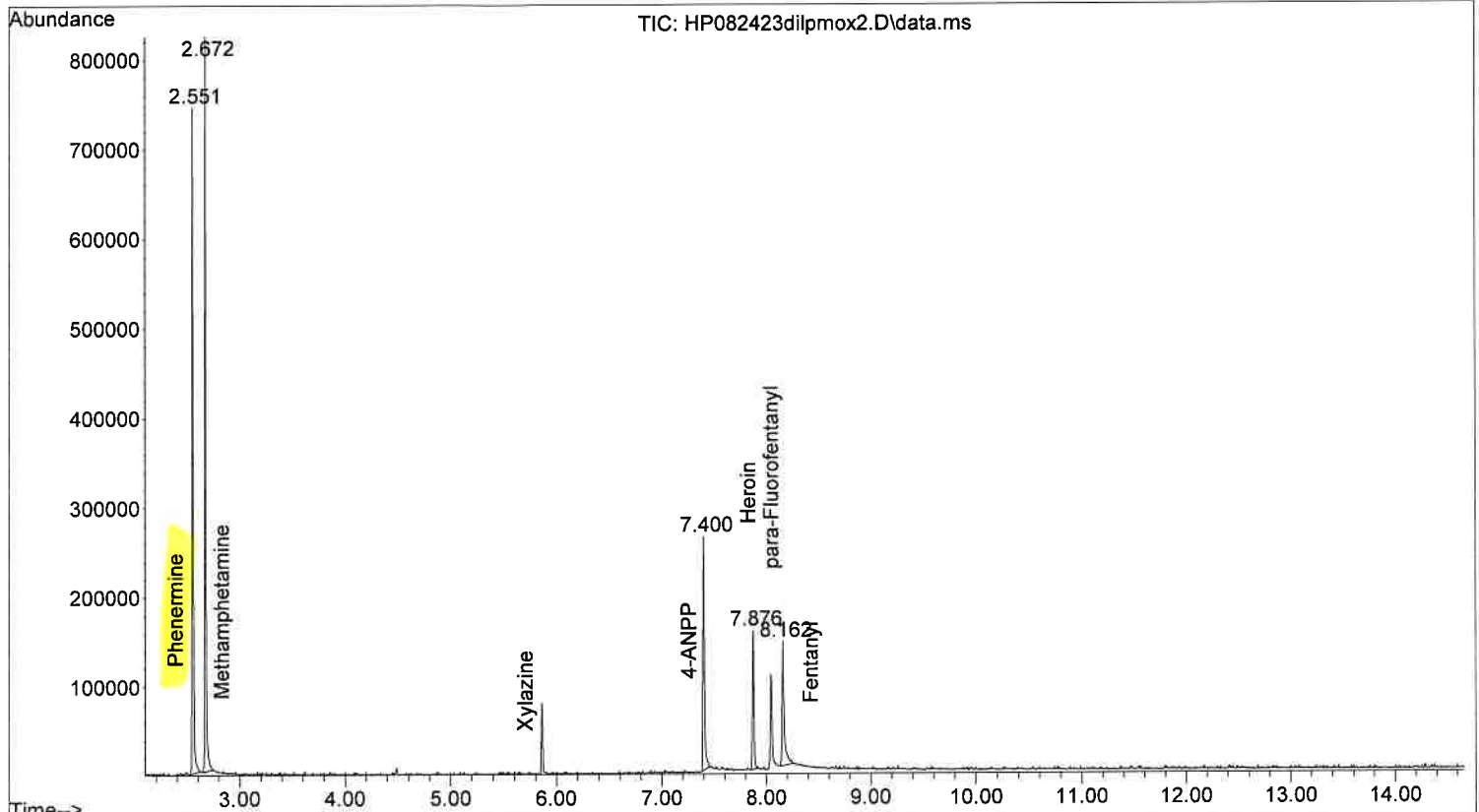
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423dilpmoxLC.D
Operator :
Acquired : 24 Aug 2023 11:20 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



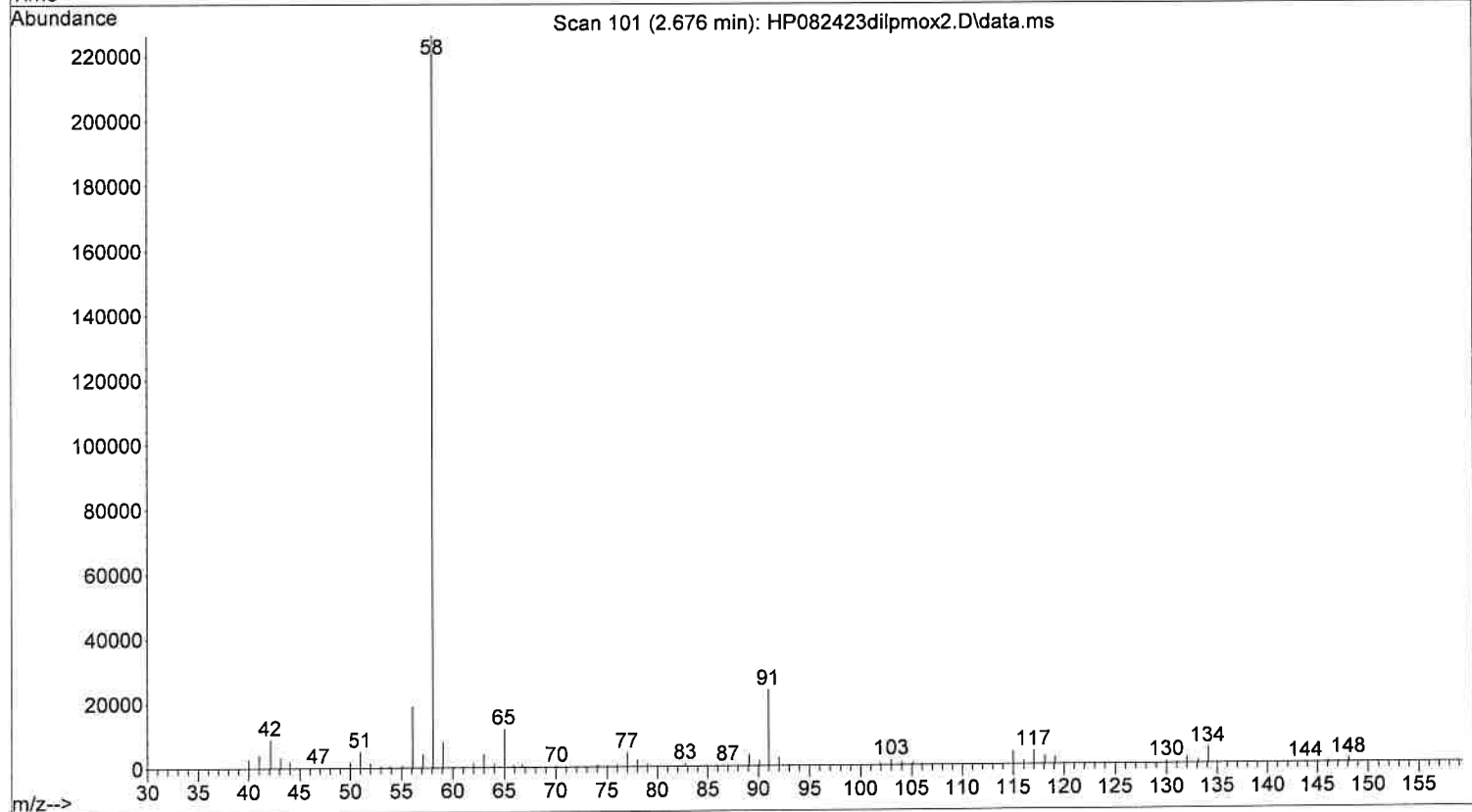
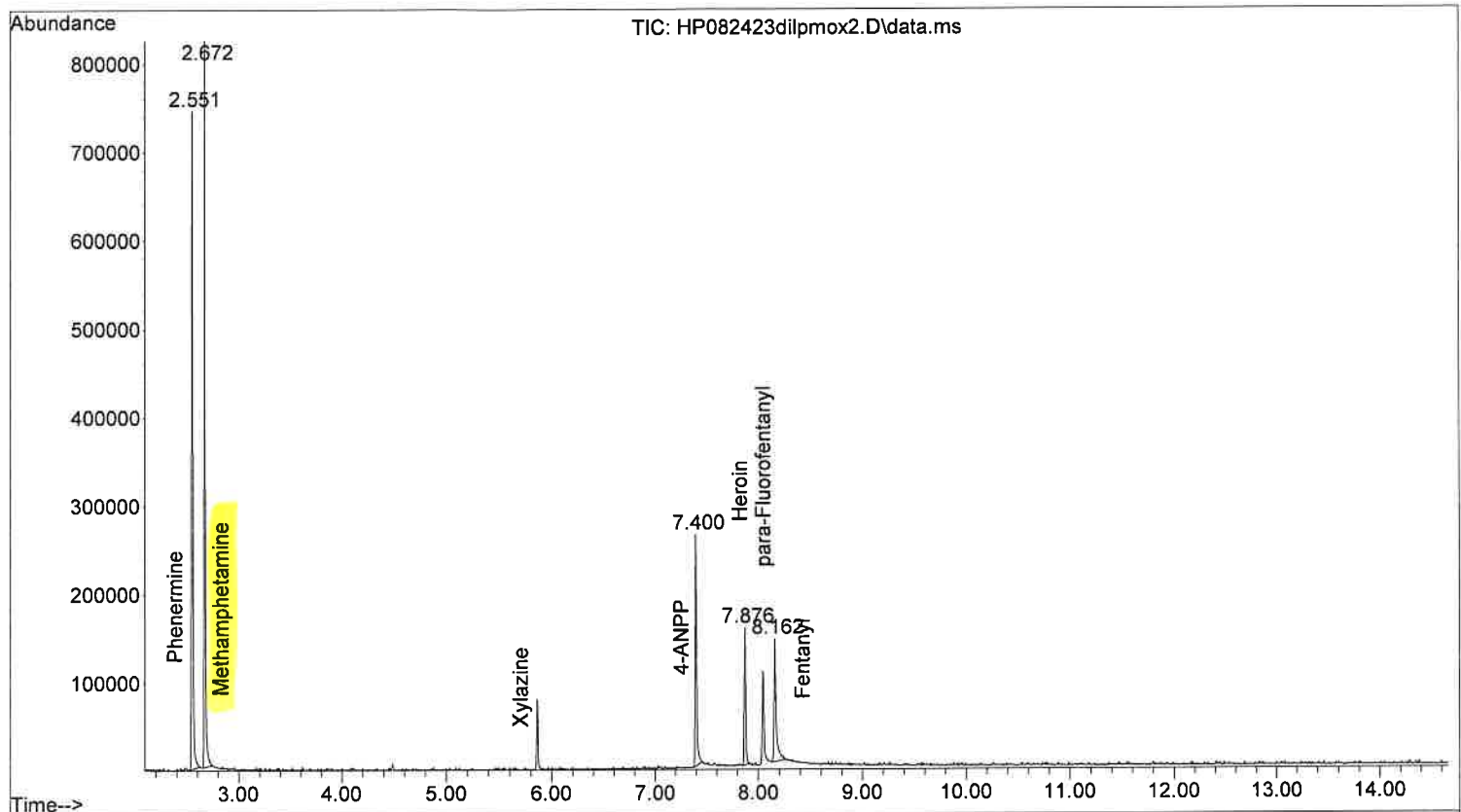
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... 423dilpmoxLC-B.D
Operator :
Acquired : 24 Aug 2023 11:03 using AcqMethod DRUG1LC.M
Instrument : Blossom
Sample Name: Chloroform Blank for Diluted P-MOX
Misc Info :
Vial Number: 2



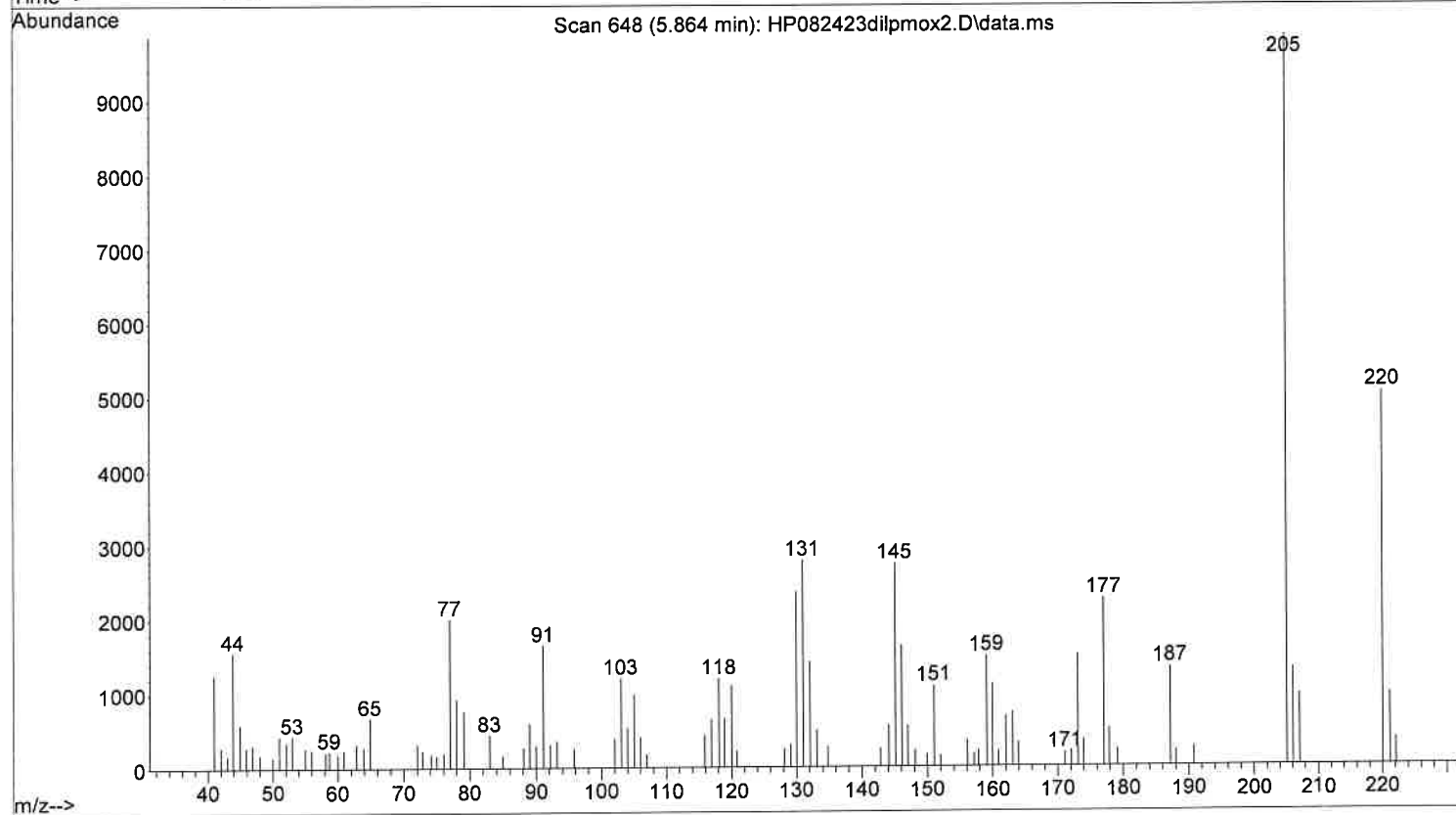
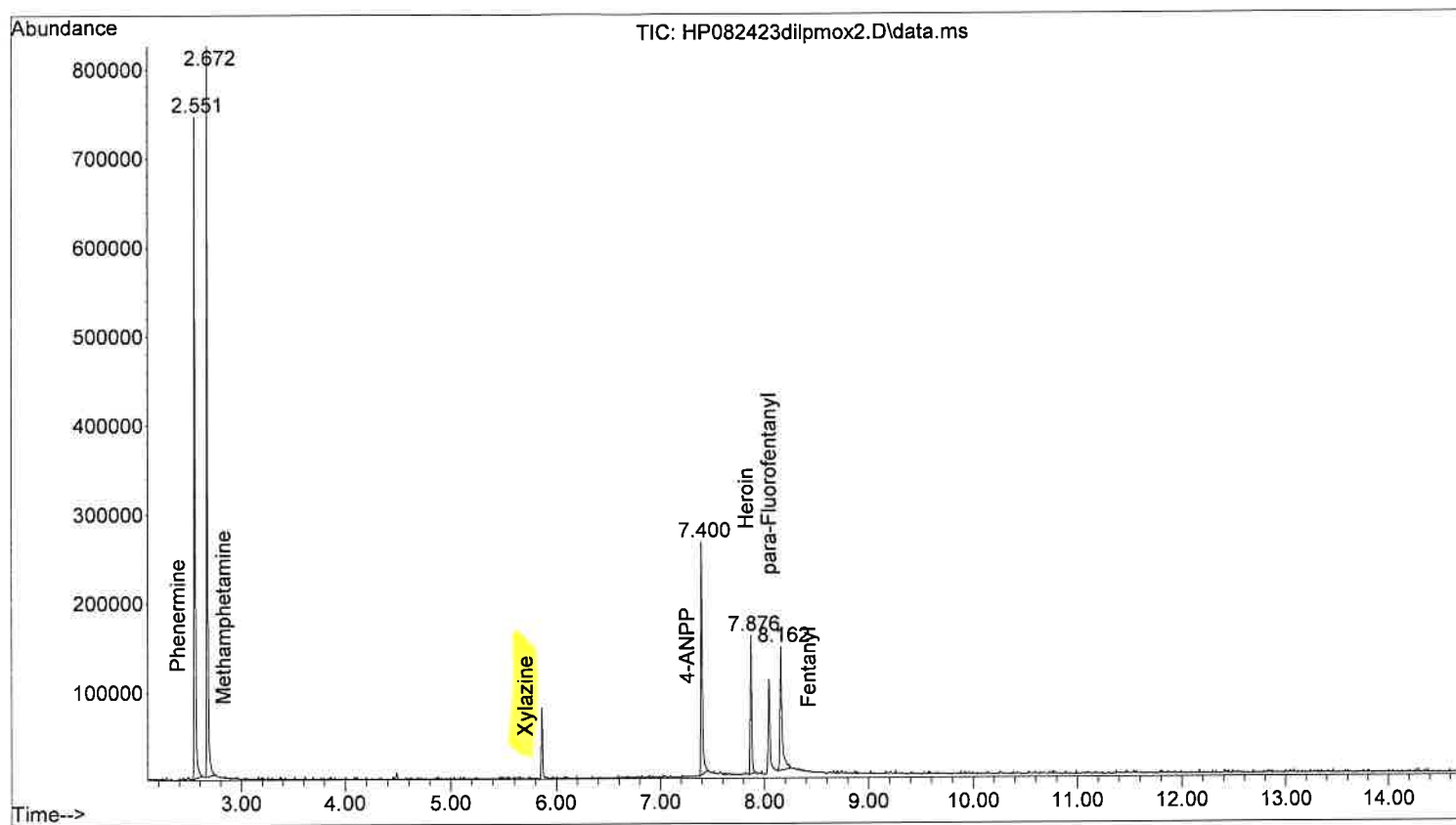
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



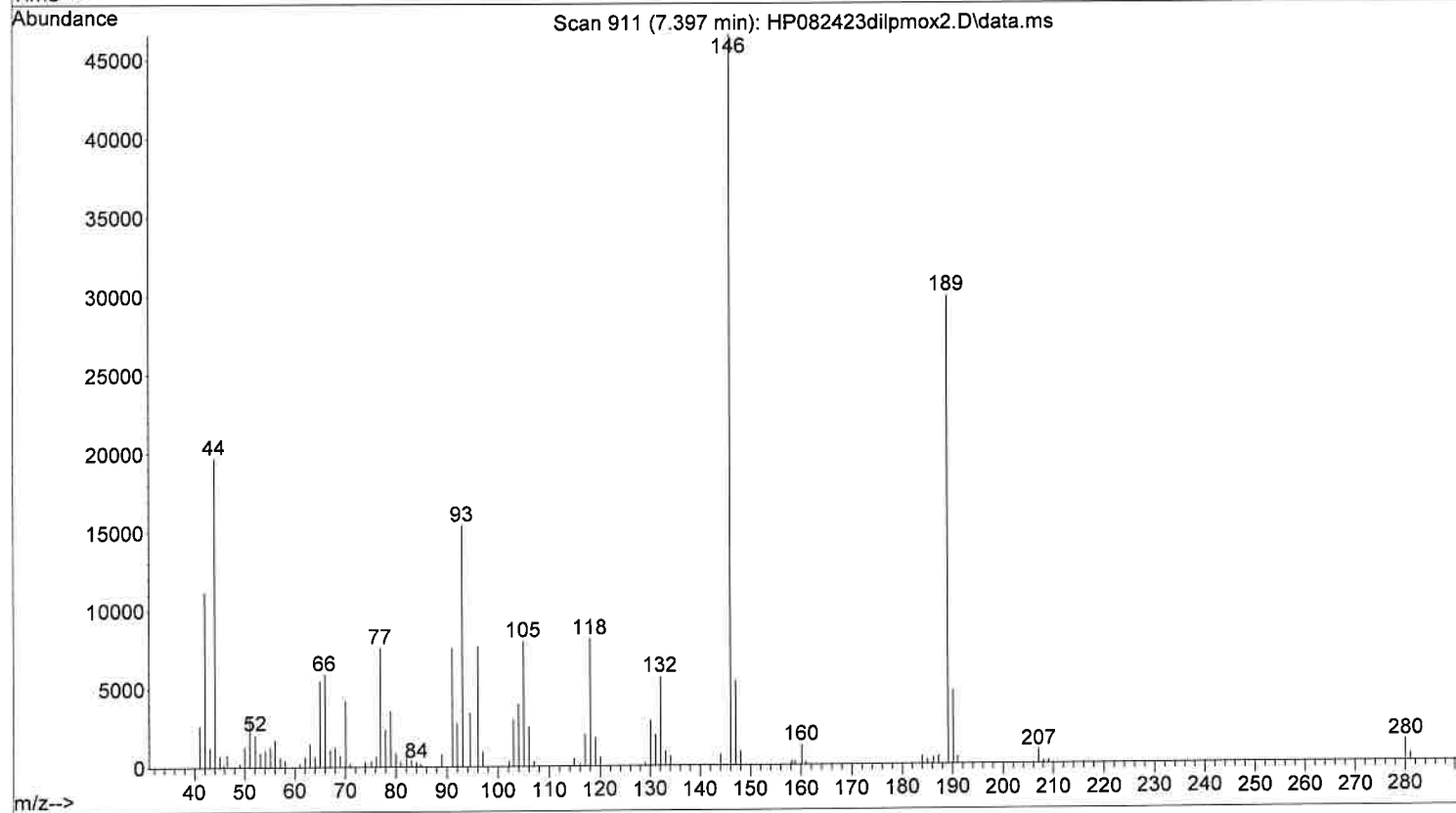
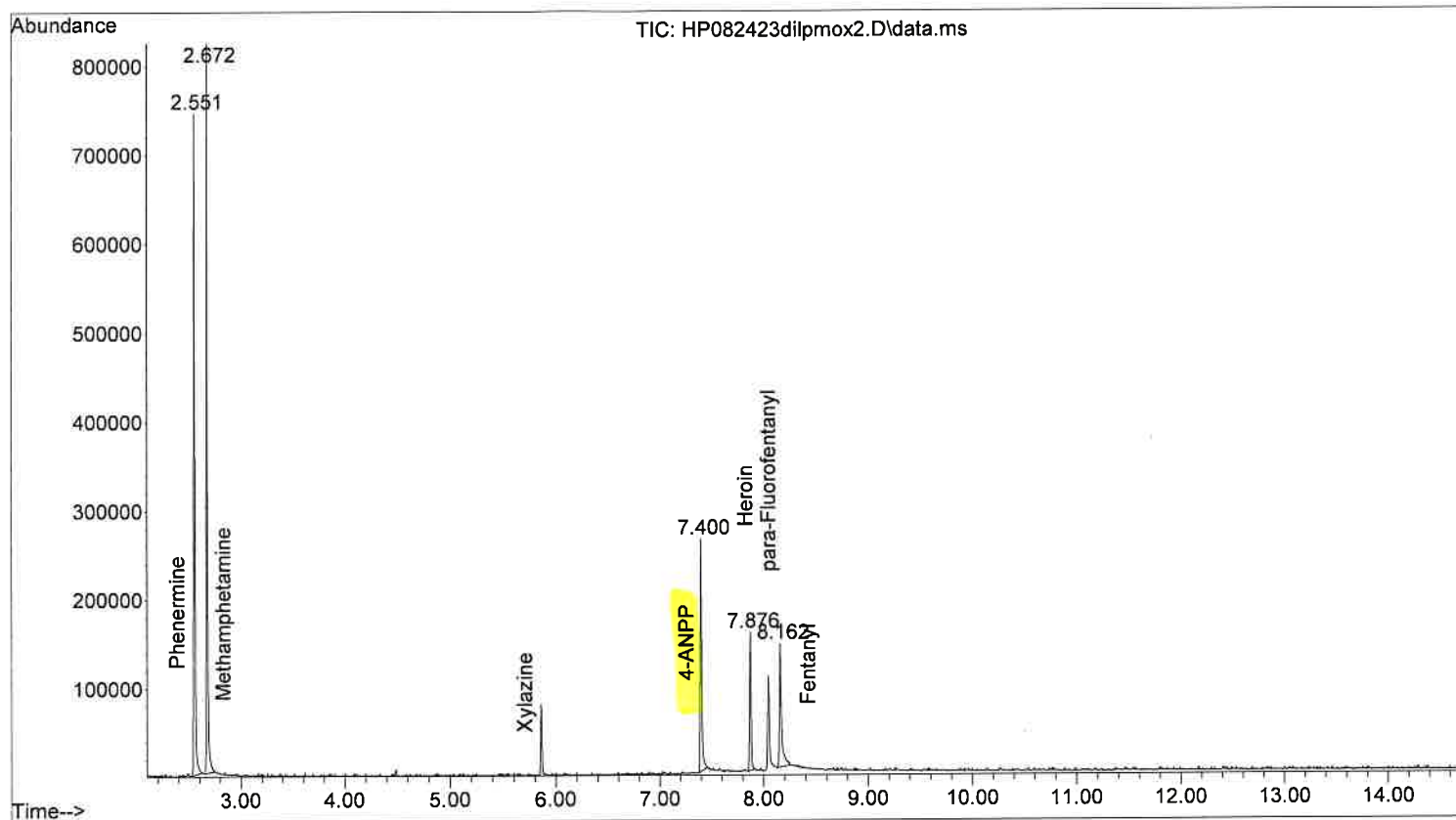
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... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



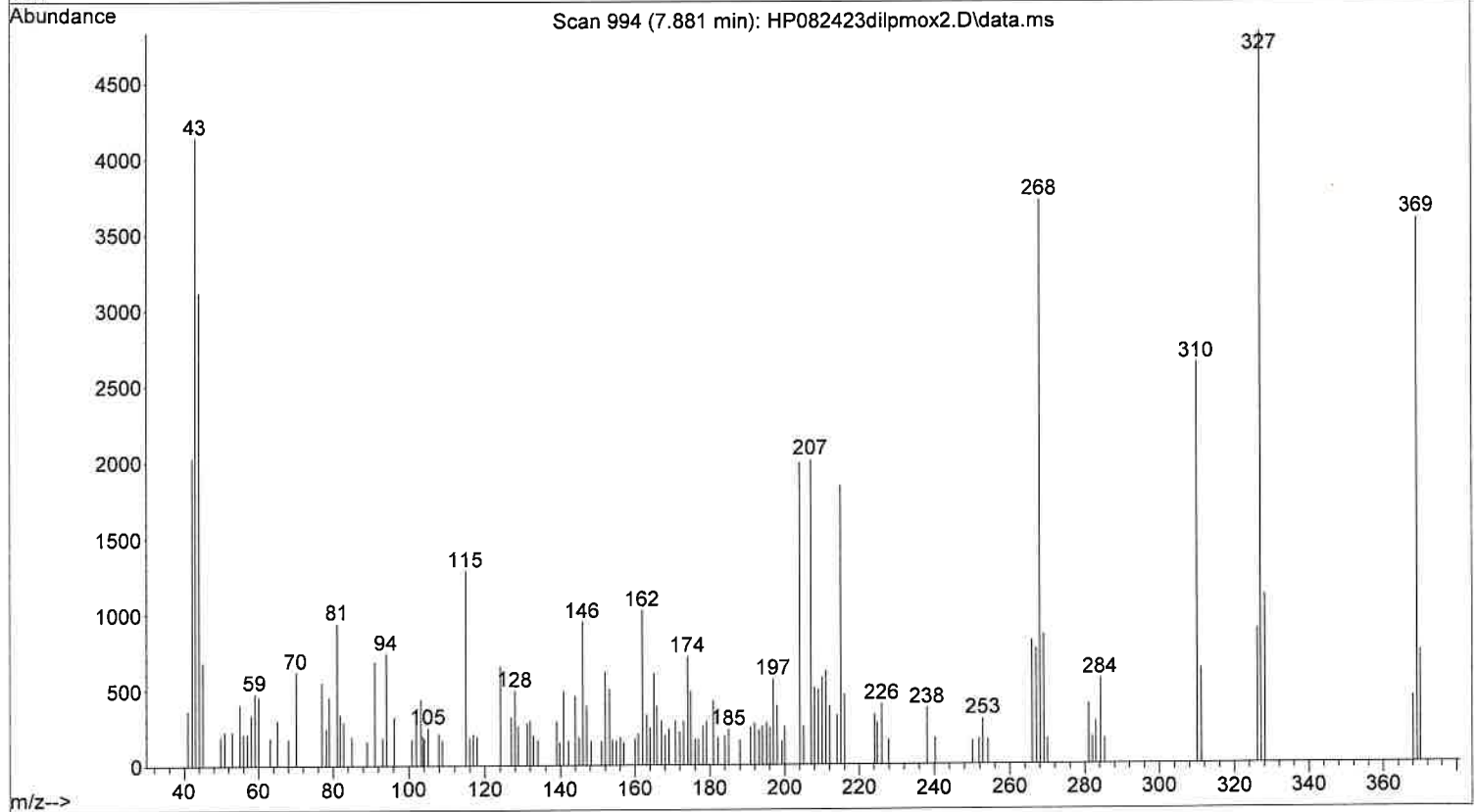
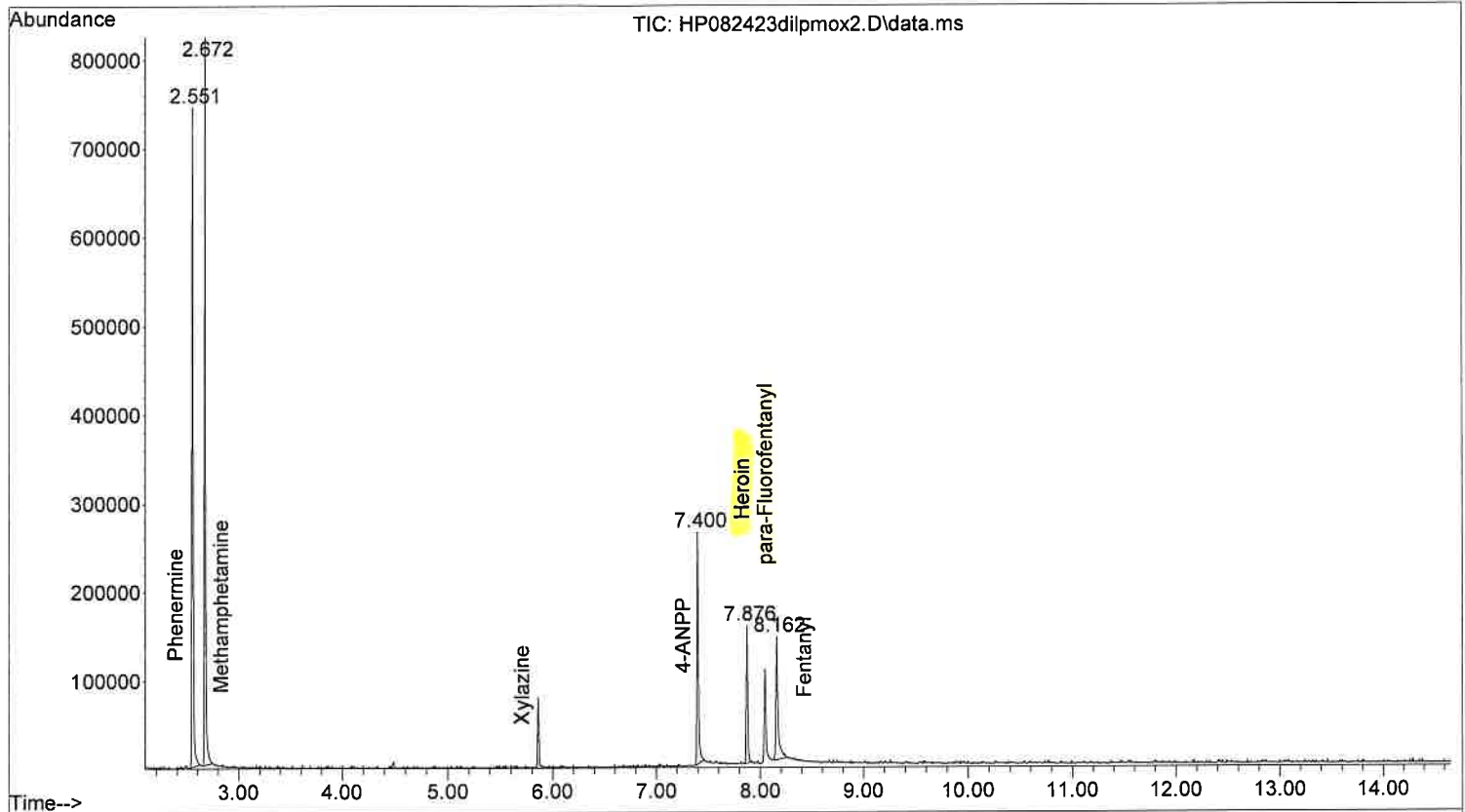
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... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



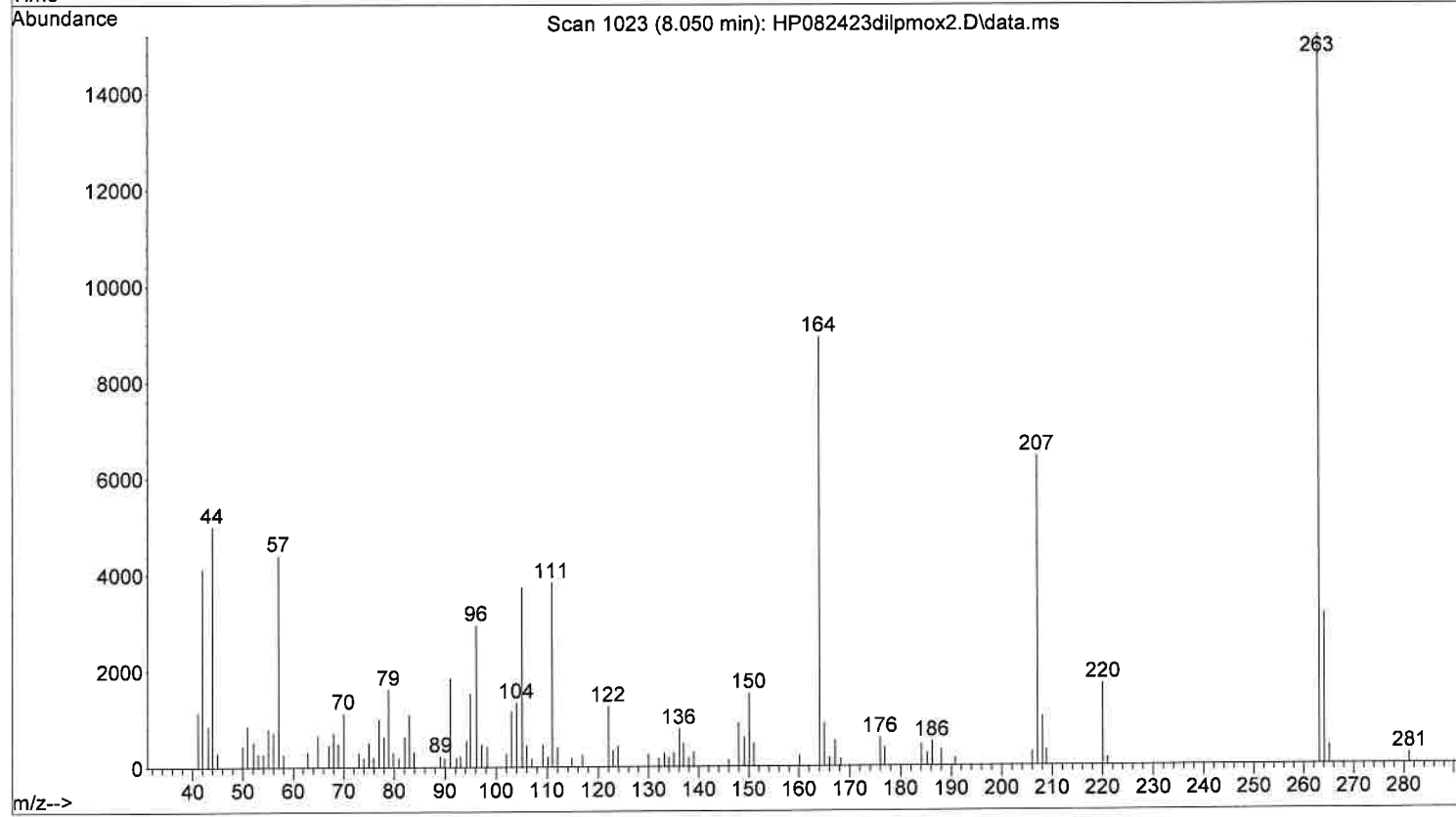
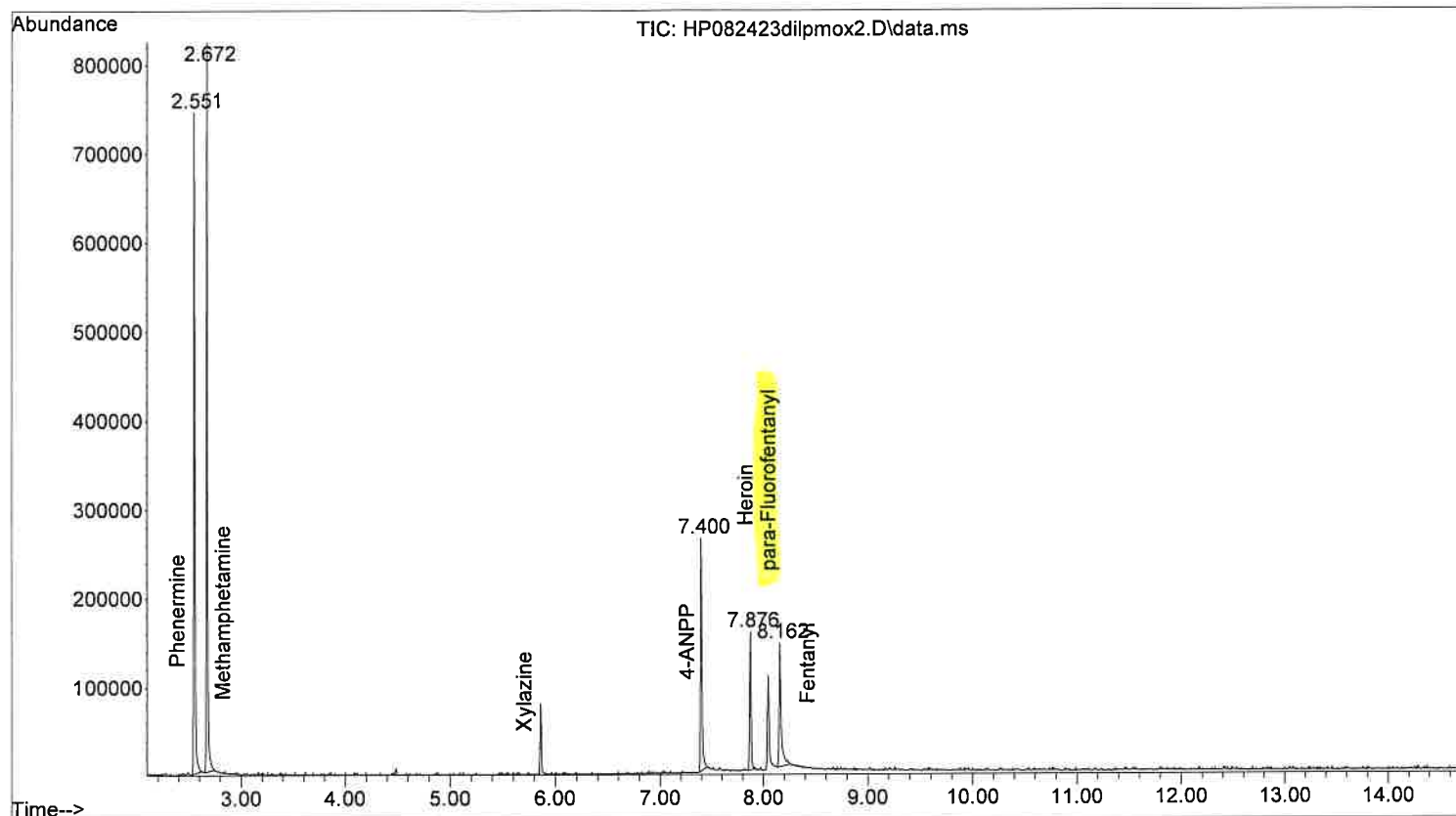
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... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



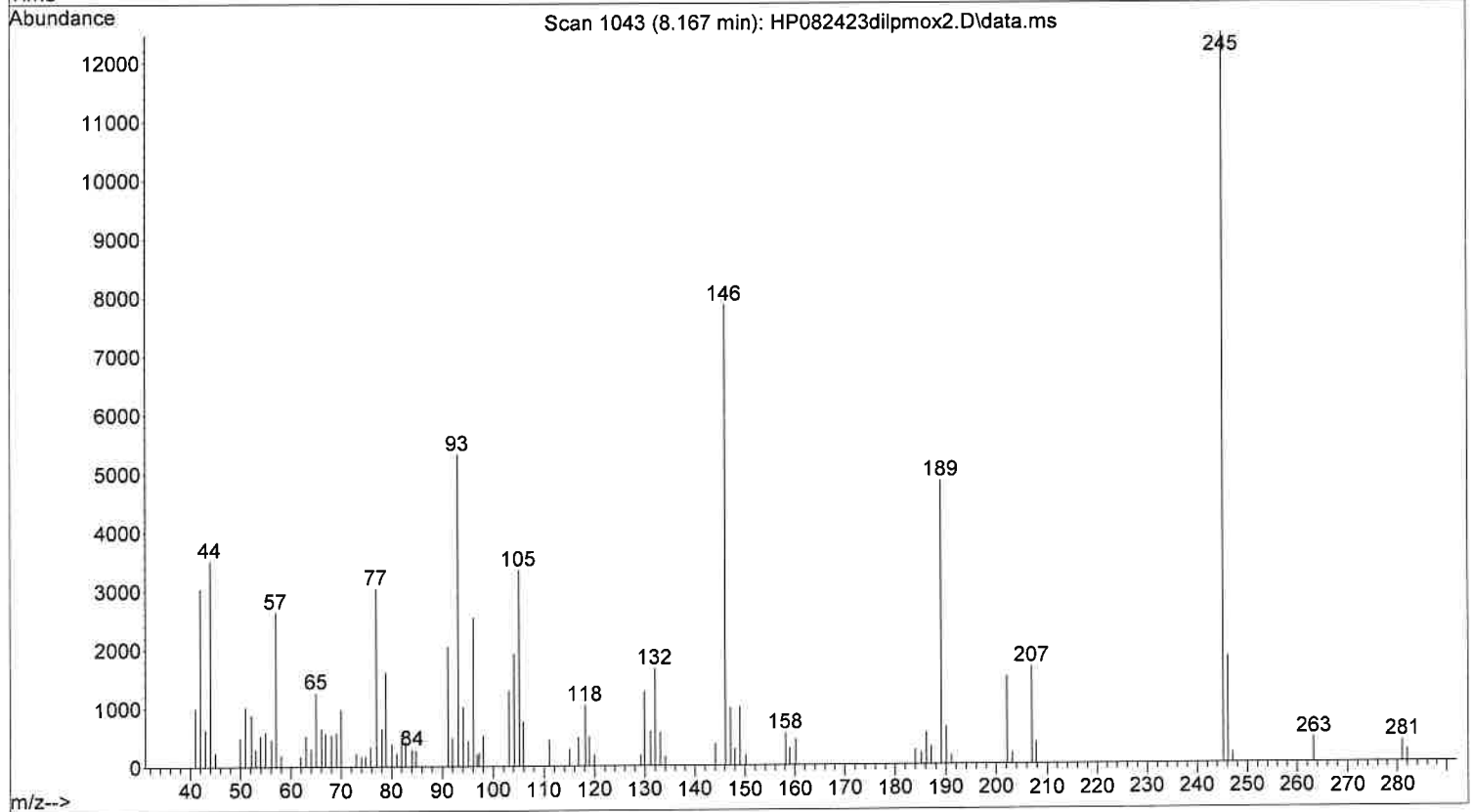
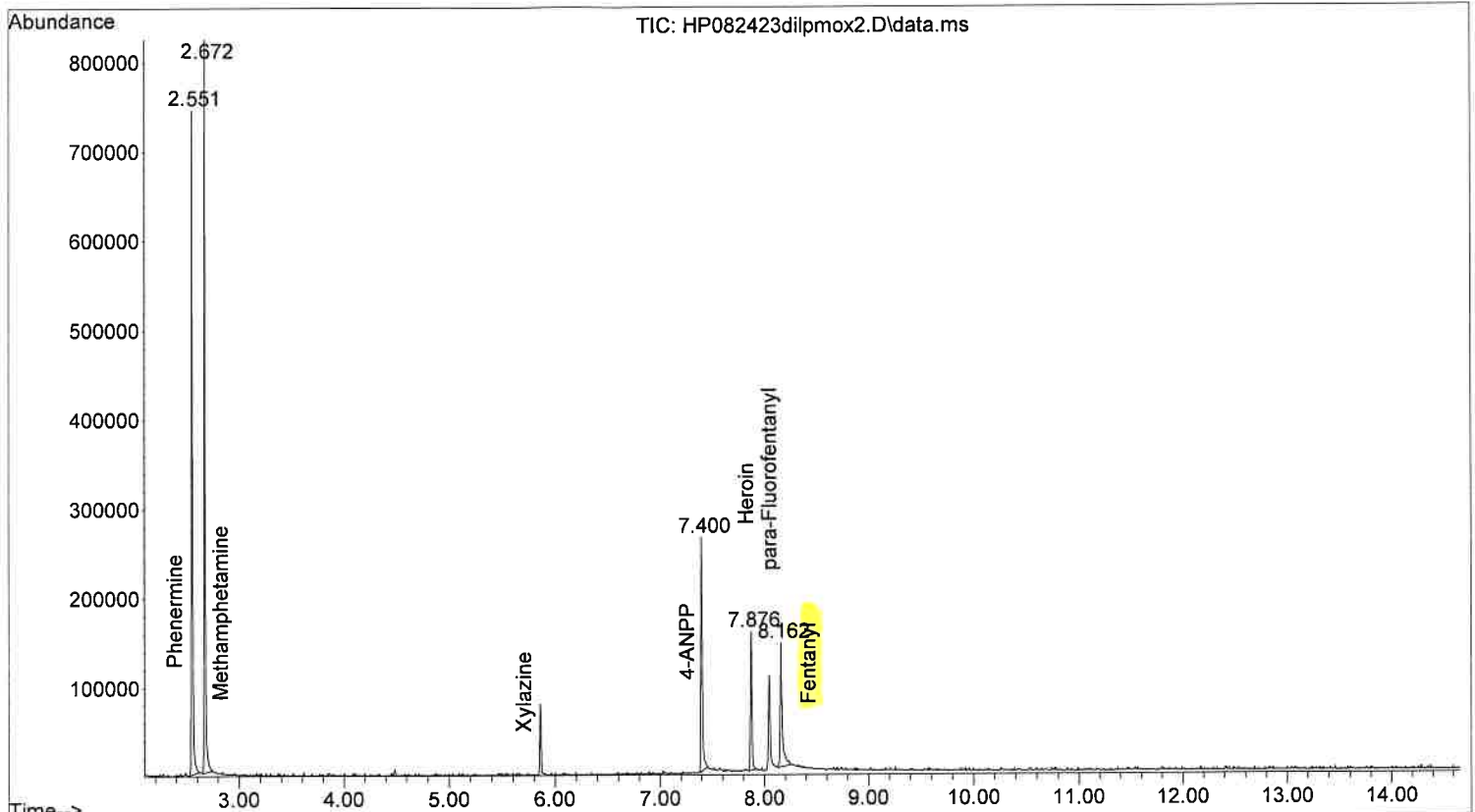
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



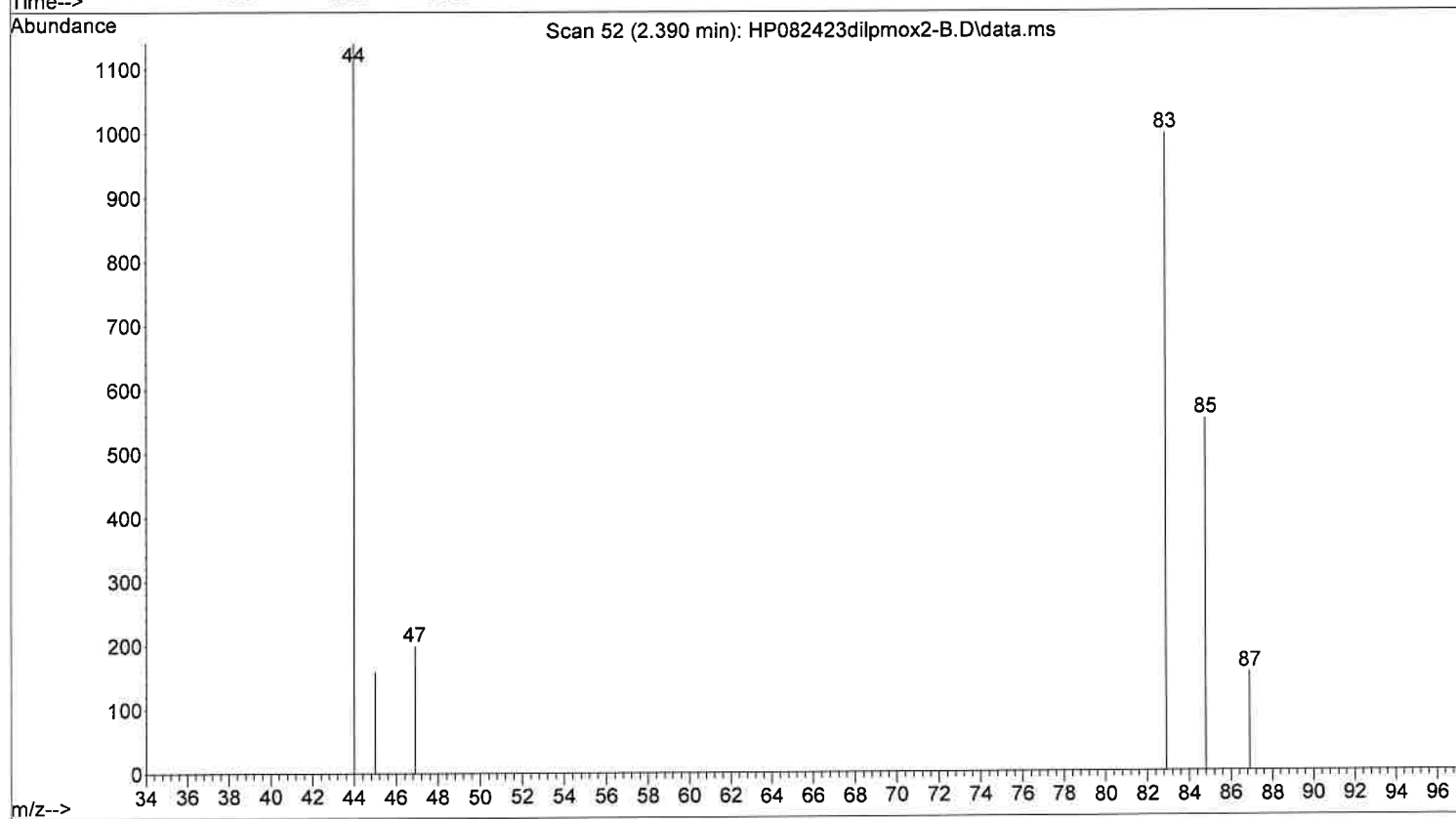
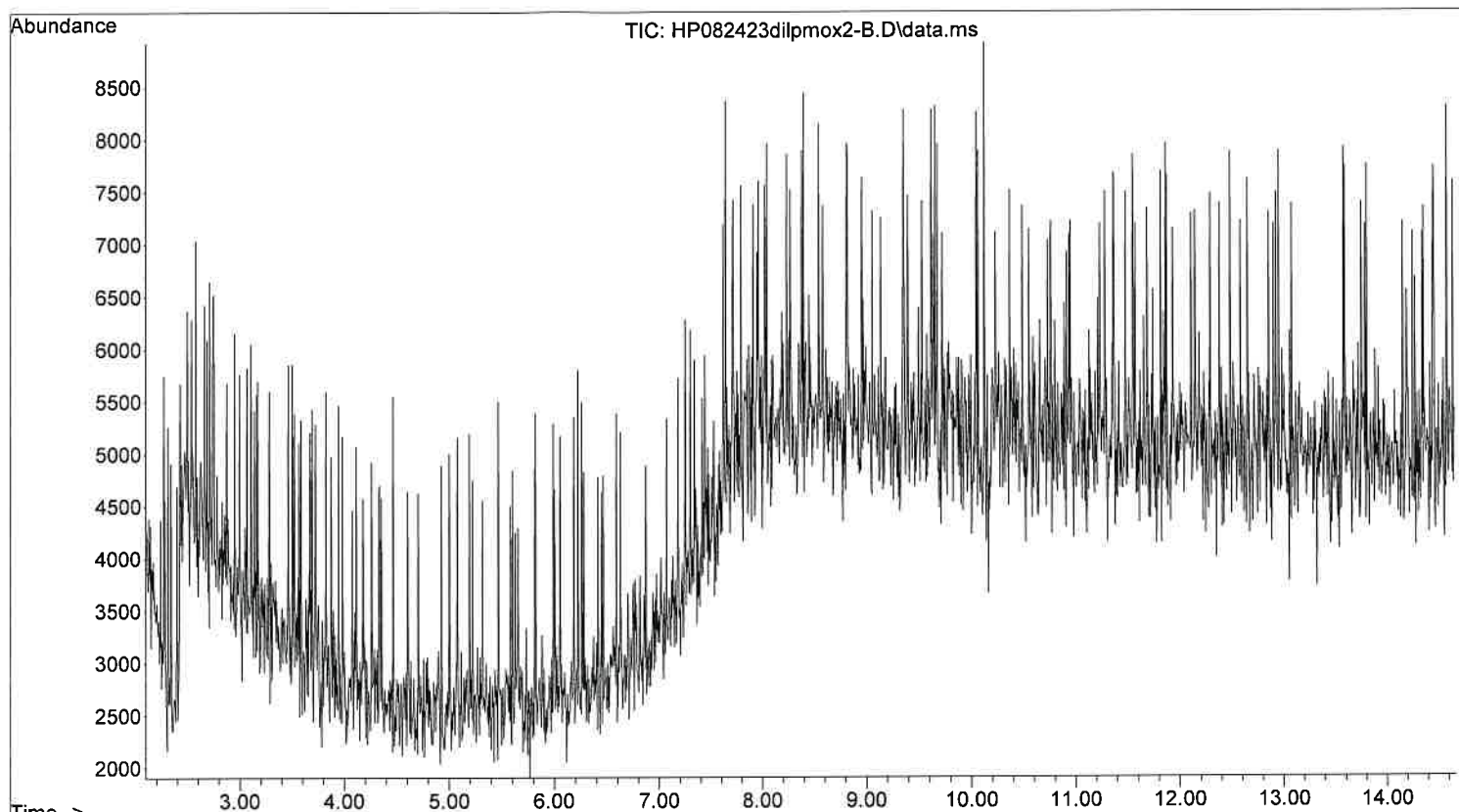
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423dilpmox2.D
Operator :
Acquired : 24 Aug 2023 10:28 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Diluted P-MOX Standard in Chloroform
Misc Info :
Vial Number: 21



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423dilpmox2-B.D
Operator :
Acquired : 24 Aug 2023 10:09 using AcqMethod DRUG1.M
Instrument : Blossom
Sample Name: Chloroform Blank for Diluted P-MOX
Misc Info :
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\GHB.M

Method Sections To Run:

(X) Save Copy of Method With Data
() Instrument Control Pre-Run Cmd/Macro =
() Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
() Data Analysis
() Instrument Control Post-Run Cmd/Macro =
() Data Analysis Post-Run Cmd/Macro =

Method Comments:

GHB

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\GHB.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	0.00
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
0.00	40	500	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
------	---------------	-----------

Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\GHB.M
Thu Aug 24 15:37:58 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
GC Summary
Run Time 14.417 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 80 °C
Hold Time 1.25 min
Post Run 0 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 6.5 min

Equilibration Time 0 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 0
Sample Wash Volume 8 µL
Sample Pumps 2
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 3000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 3000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 0 sec
Sample Depth Disabled
Injection Type Standard
L1 Airgap 0.2 µL

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 12 psi
Septum Purge Flow	On 46.828 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	34.001 :1
Liner	42.575 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	Off
Pre-Run Flow Test	Off
Liner	Off
	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.2522 mL/min
Post Run	1 mL/min
Column Information	Agilent 128-0112
Description	DB-1ms

Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	80 °C
Pressure	12 psi
Flow	1.2522 mL/min
Average Velocity	65.404 cm/sec
Holdup Time	0.30579 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None
Signal #8:	
Description	None

TUNE PARAMETERS for SN: US2312MA32

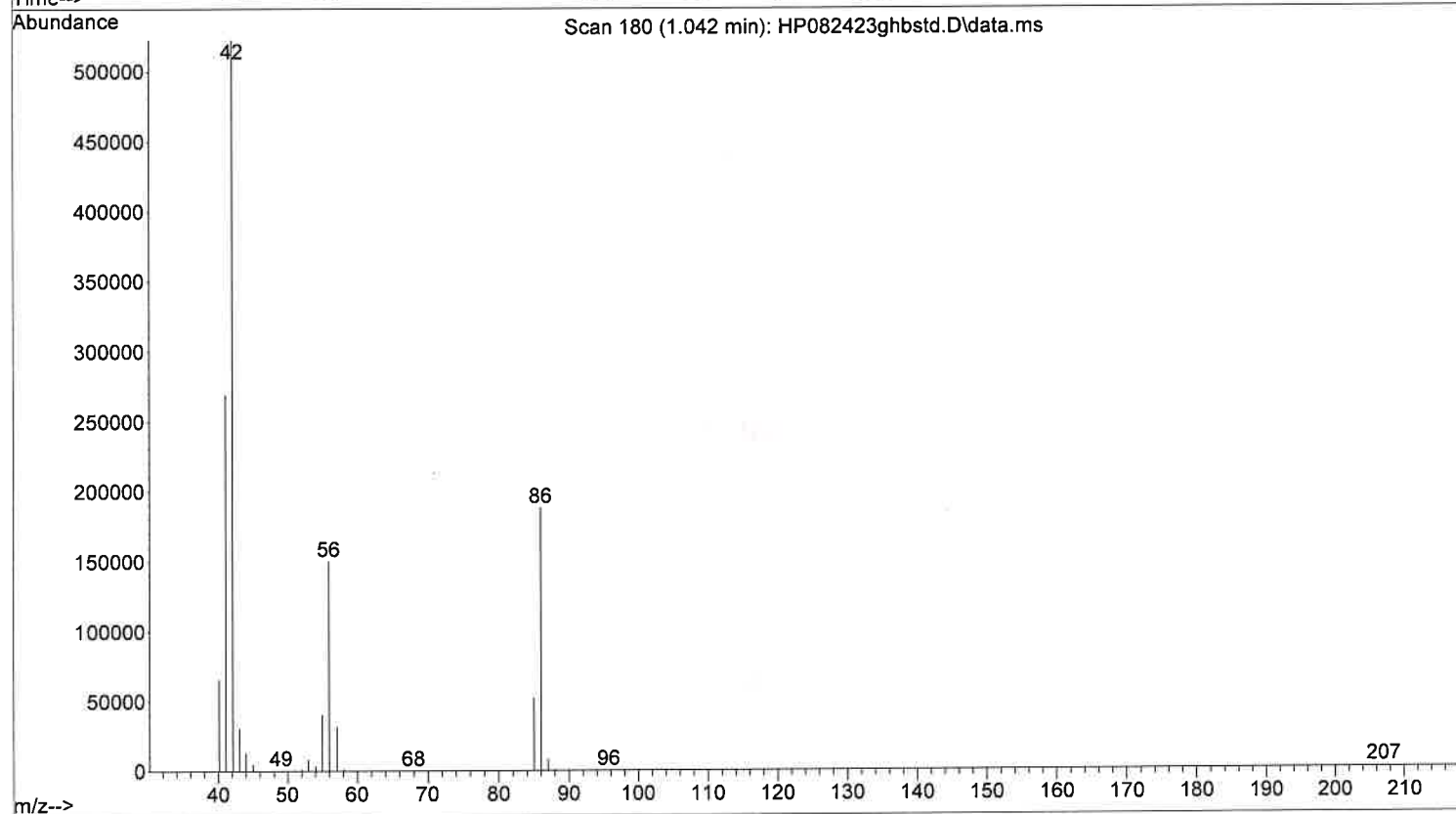
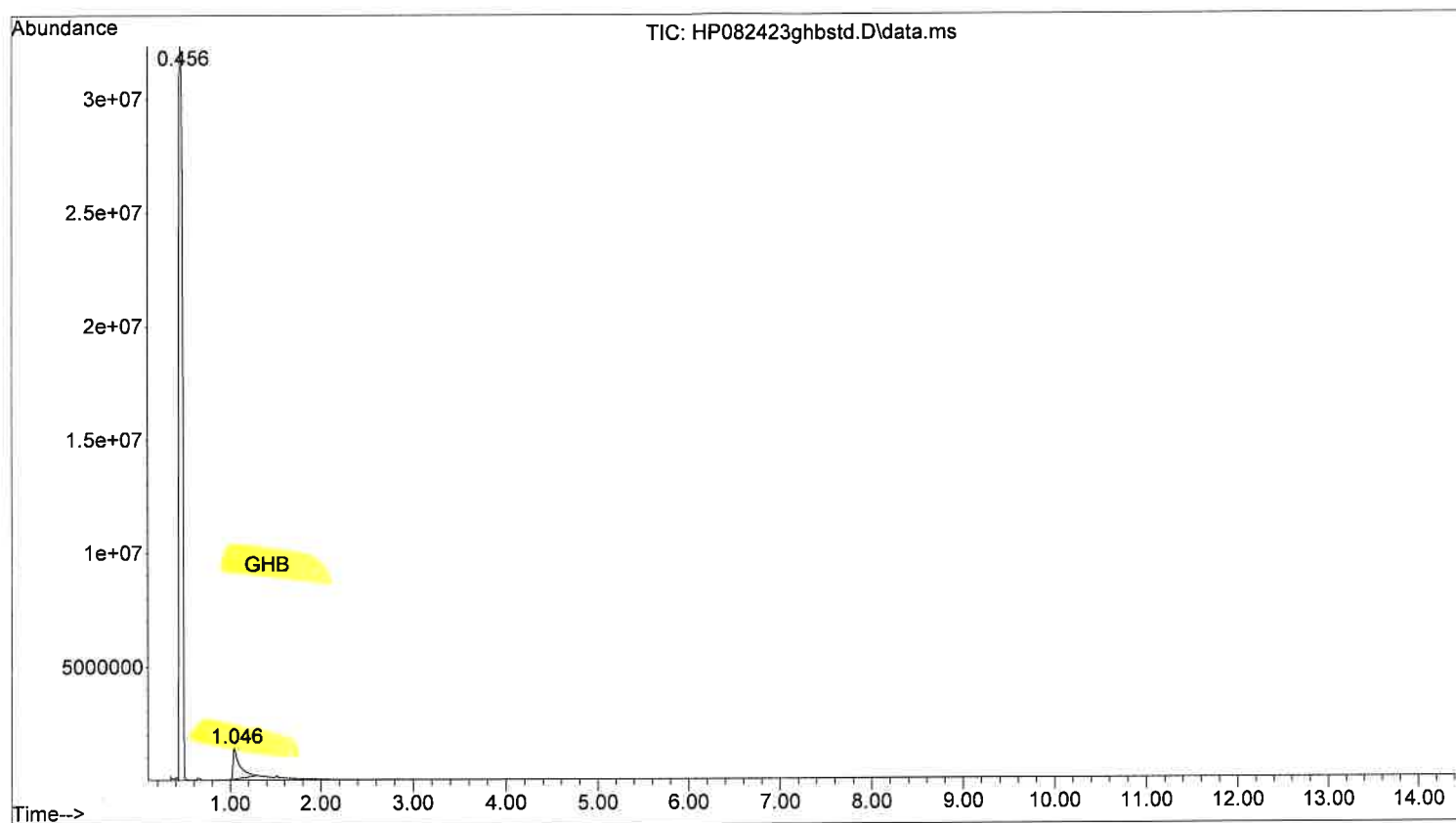
Trace Ion Detection is OFF.

34.593	:	EMISSION	
70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
0.000	:	Ion_Body	
0.000	:	EXTLENS	
198.000	:	MASSGAIN	
-24.000	:	MASSOFFSET	

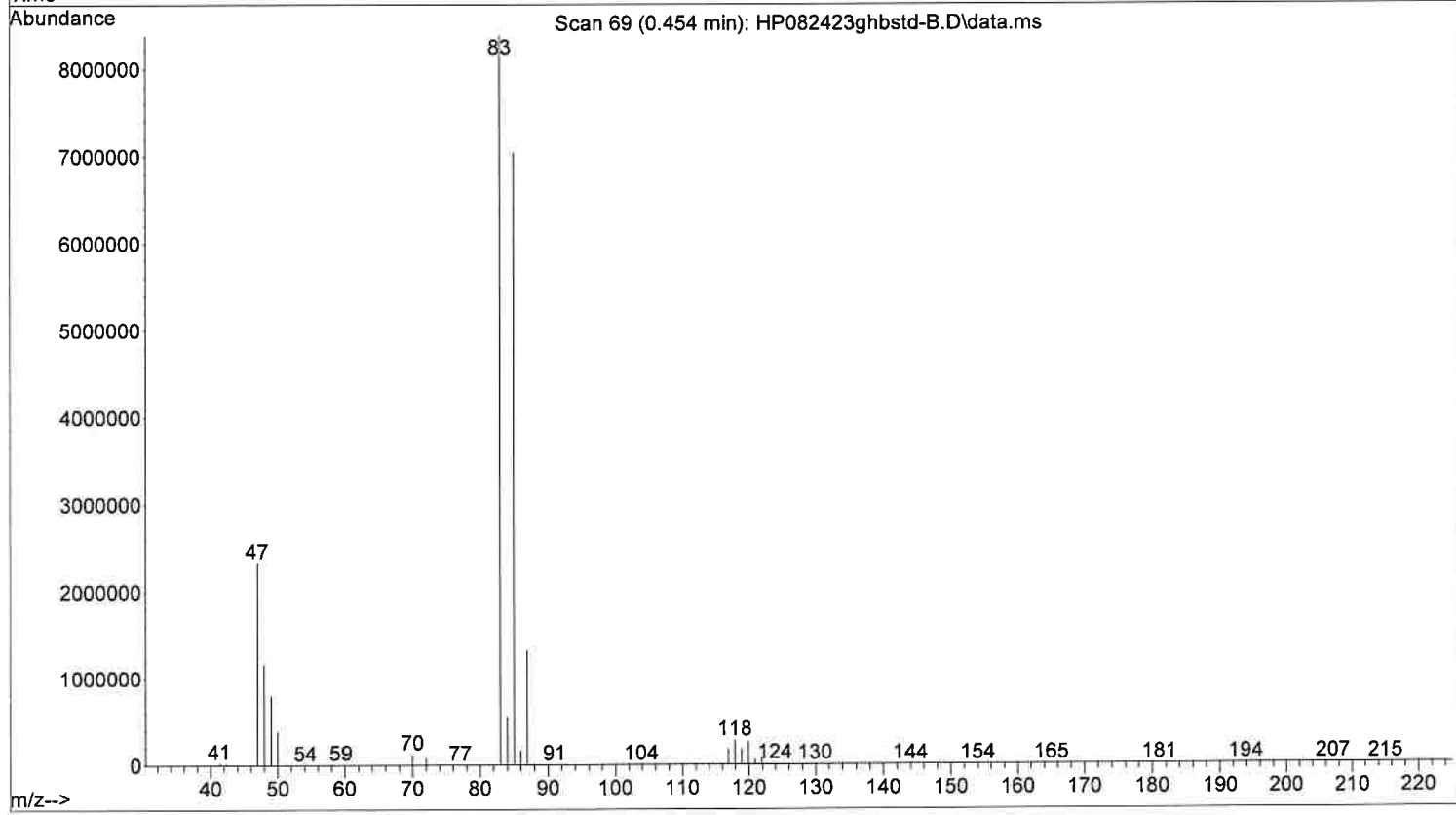
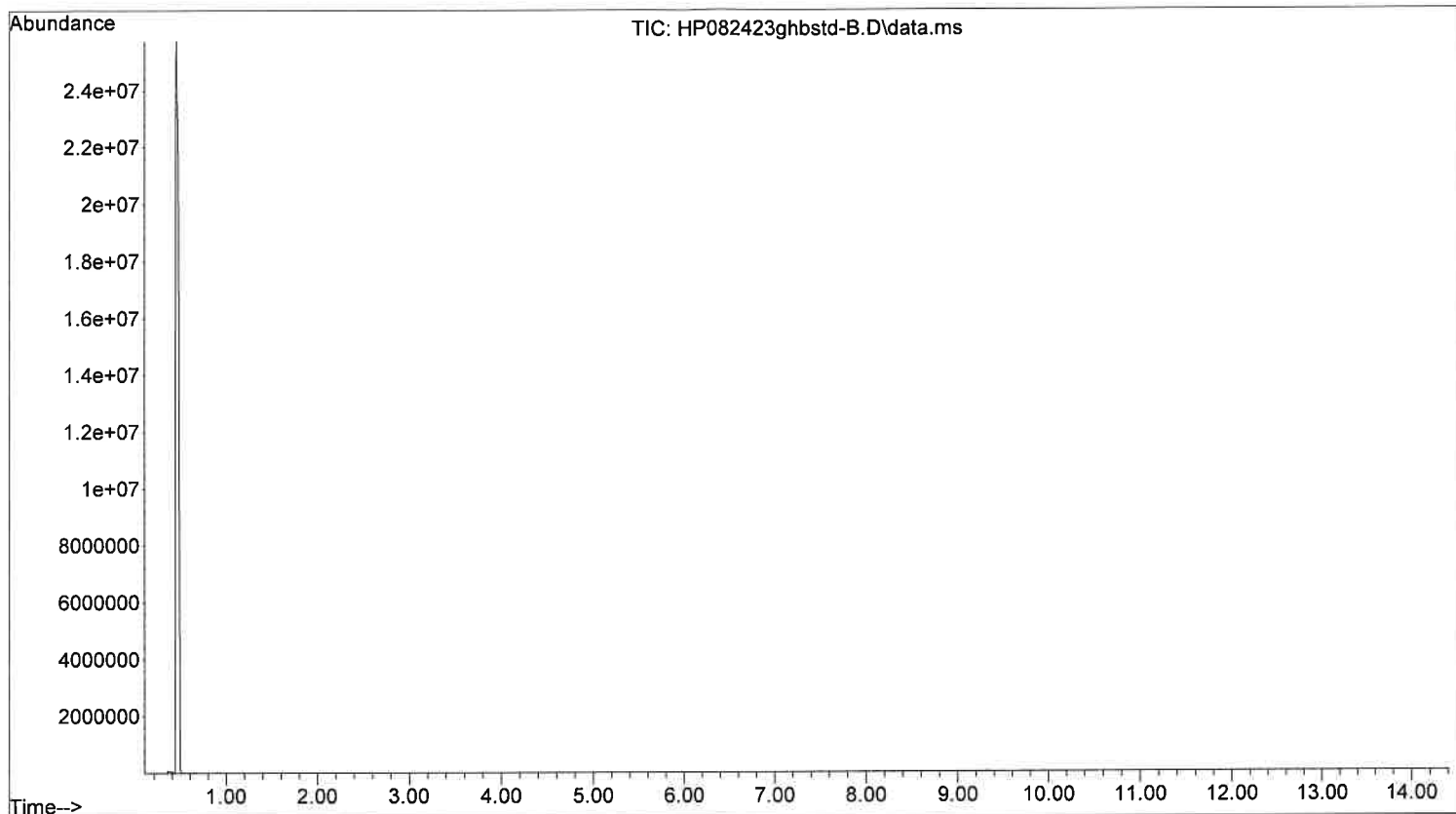
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423ghbstd.D
Operator :
Acquired : 24 Aug 2023 12:13 using AcqMethod GHB.M
Instrument : Blossom
Sample Name: GHB Standard in Methanol
Misc Info :
Vial Number: 17



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423ghbstd-B.D
Operator :
Acquired : 24 Aug 2023 11:56 using AcqMethod GHB.M
Instrument : Blossom
Sample Name: Methanol Blank for GHB Standard
Misc Info :
Vial Number: 1



METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\OPIATE.M

Method Sections To Run:

(X) Save Copy of Method With Data
() Instrument Control Pre-Run Cmd/Macro =
() Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
() Data Analysis
() Instrument Control Post-Run Cmd/Macro =
() Data Analysis Post-Run Cmd/Macro =

Method Comments:

OPIATE

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\OPIATE.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	2.50
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
2.50	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
------	---------------	-----------

Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\OPIATE.M
Thu Aug 24 15:42:30 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
GC Summary
Run Time 6.6667 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 200 °C
Hold Time 1 min
Post Run 80 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 3 min

Equilibration Time 0 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 0
Sample Wash Volume 8 µL
Sample Pumps 2
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 3000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 3000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 0 sec
Sample Depth Disabled
Injection Type Standard
L1 Airgap 0.2 µL

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 9.1 psi
Septum Purge Flow	On 58.386 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	90 :1
Liner	54.777 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	Off
Pre-Run Flow Test	Off
Liner	Off
	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.60864 mL/min
Post Run	1 mL/min
Column Information	Agilent 128-0112
Description	DB-lms

Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	200 °C
Pressure	9.1 psi
Flow	0.60864 mL/min
Average Velocity	47.783 cm/sec
Holdup Time	0.41855 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None
Signal #8:	
Description	None

TUNE PARAMETERS for SN: US2312MA32

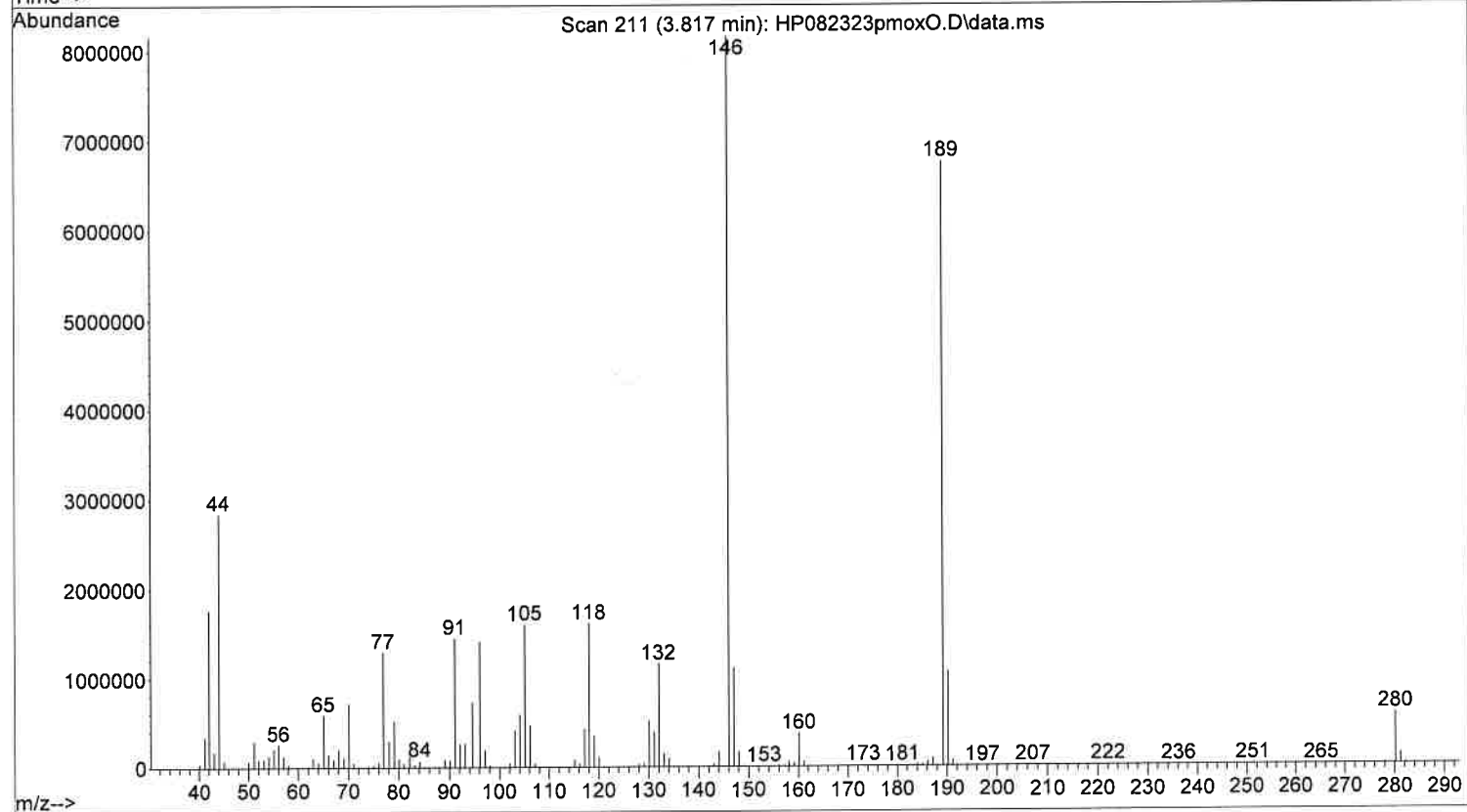
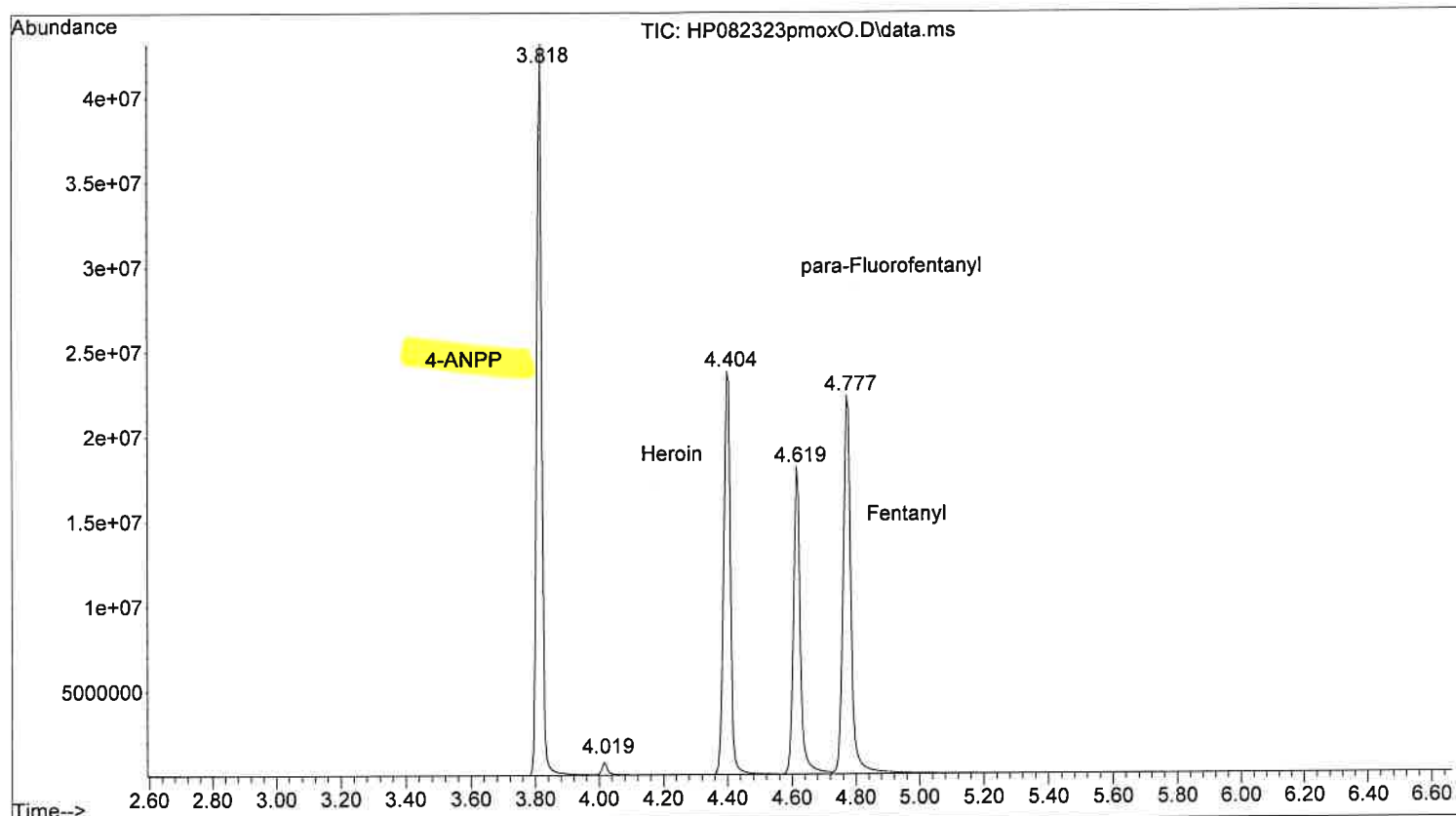
Trace Ion Detection is OFF.

34.593	:	EMISSION	
70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
0.000	:	Ion_Body	
0.000	:	EXTLENS	
198.000	:	MASSGAIN	
-24.000	:	MASSOFFSET	

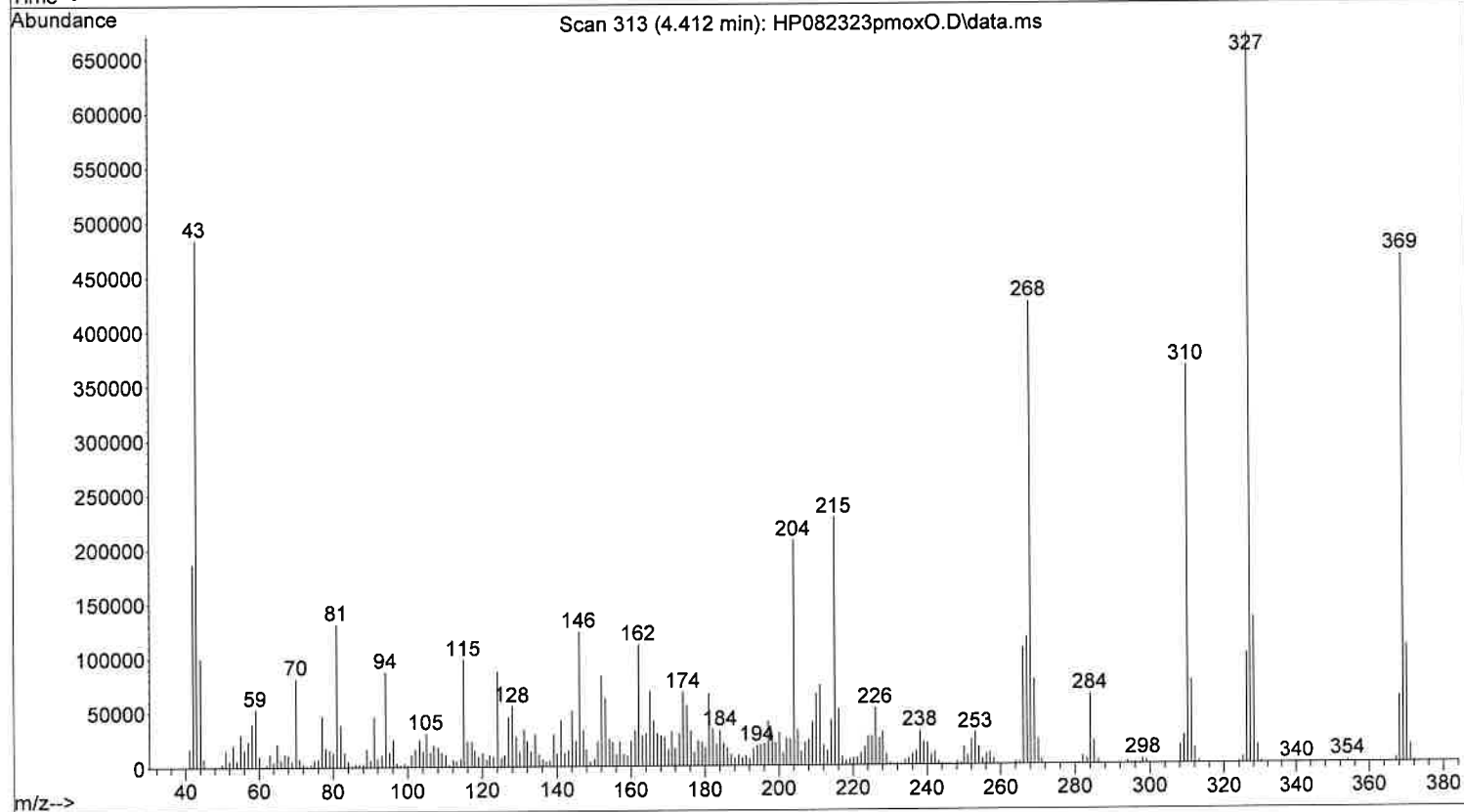
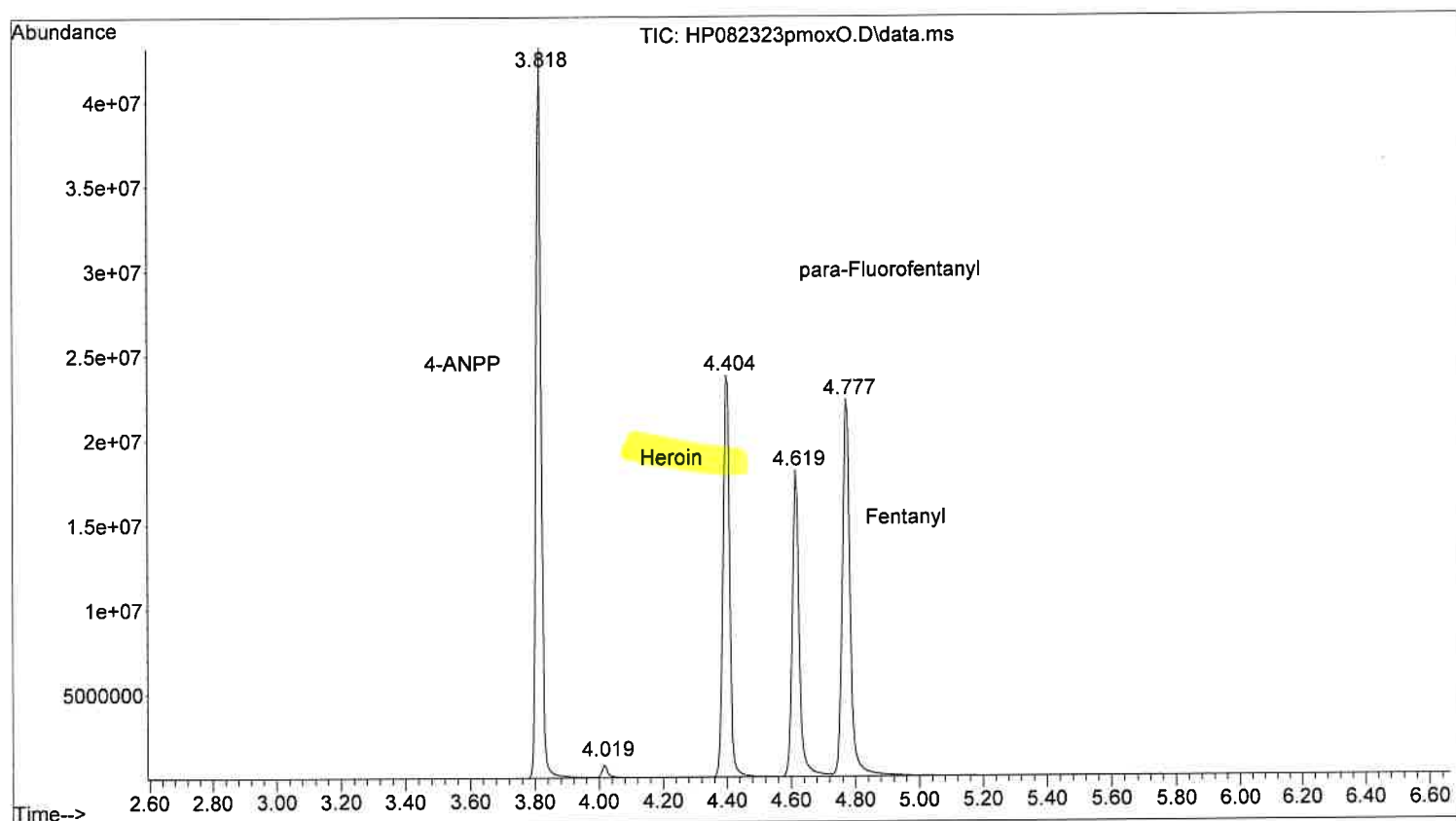
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

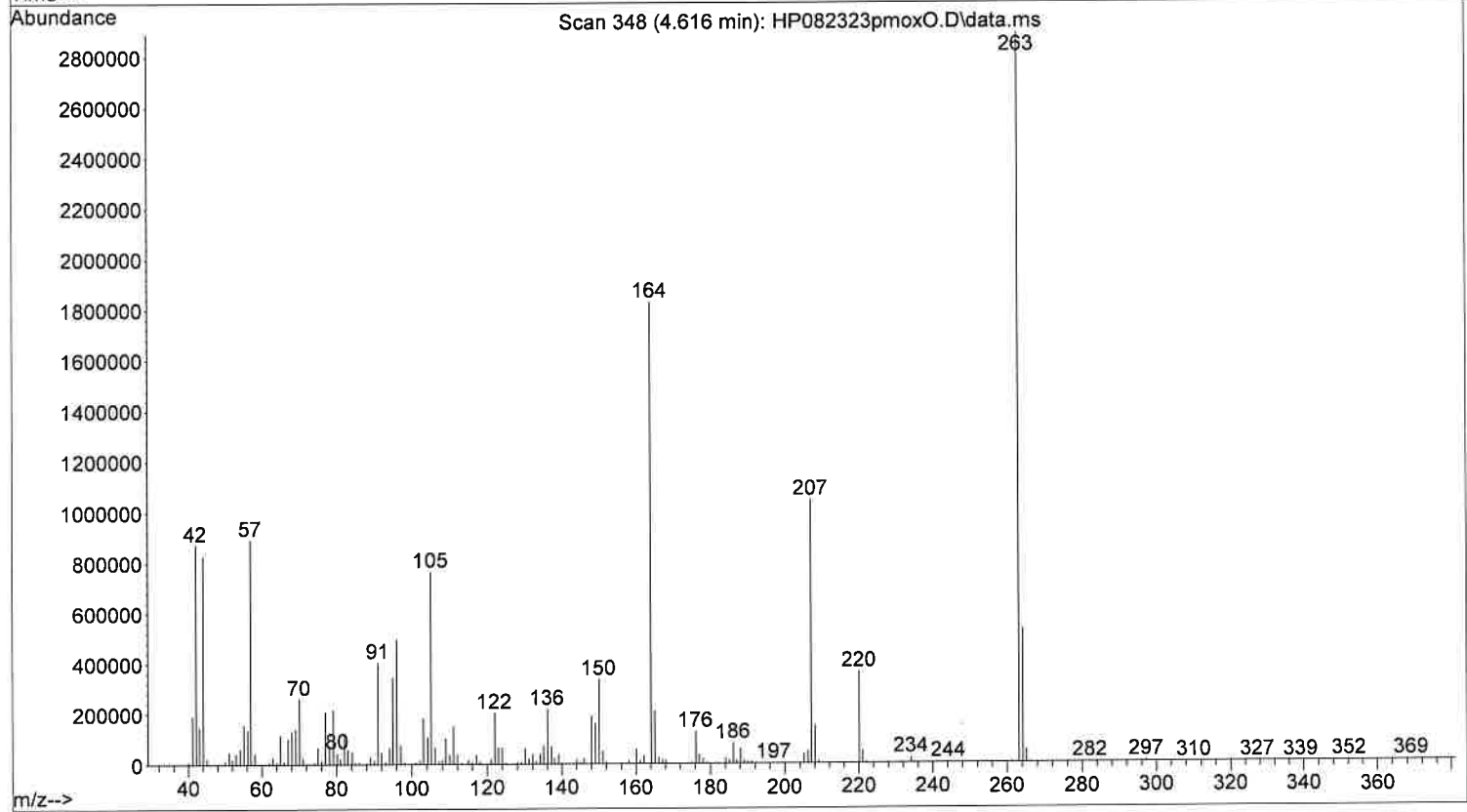
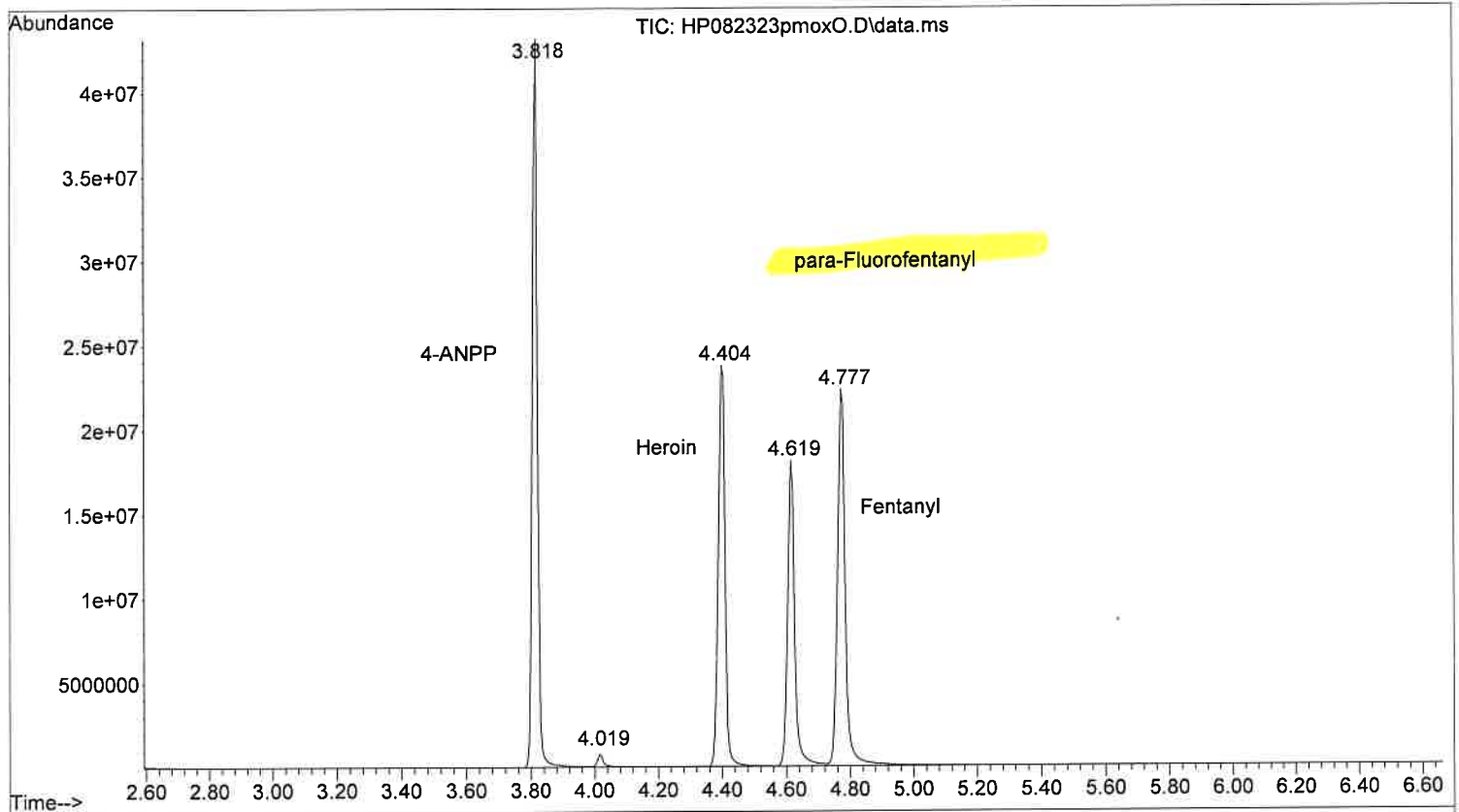
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmox0.D
Operator :
Acquired : 23 Aug 2023 09:16 using AcqMethod OPIATE.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



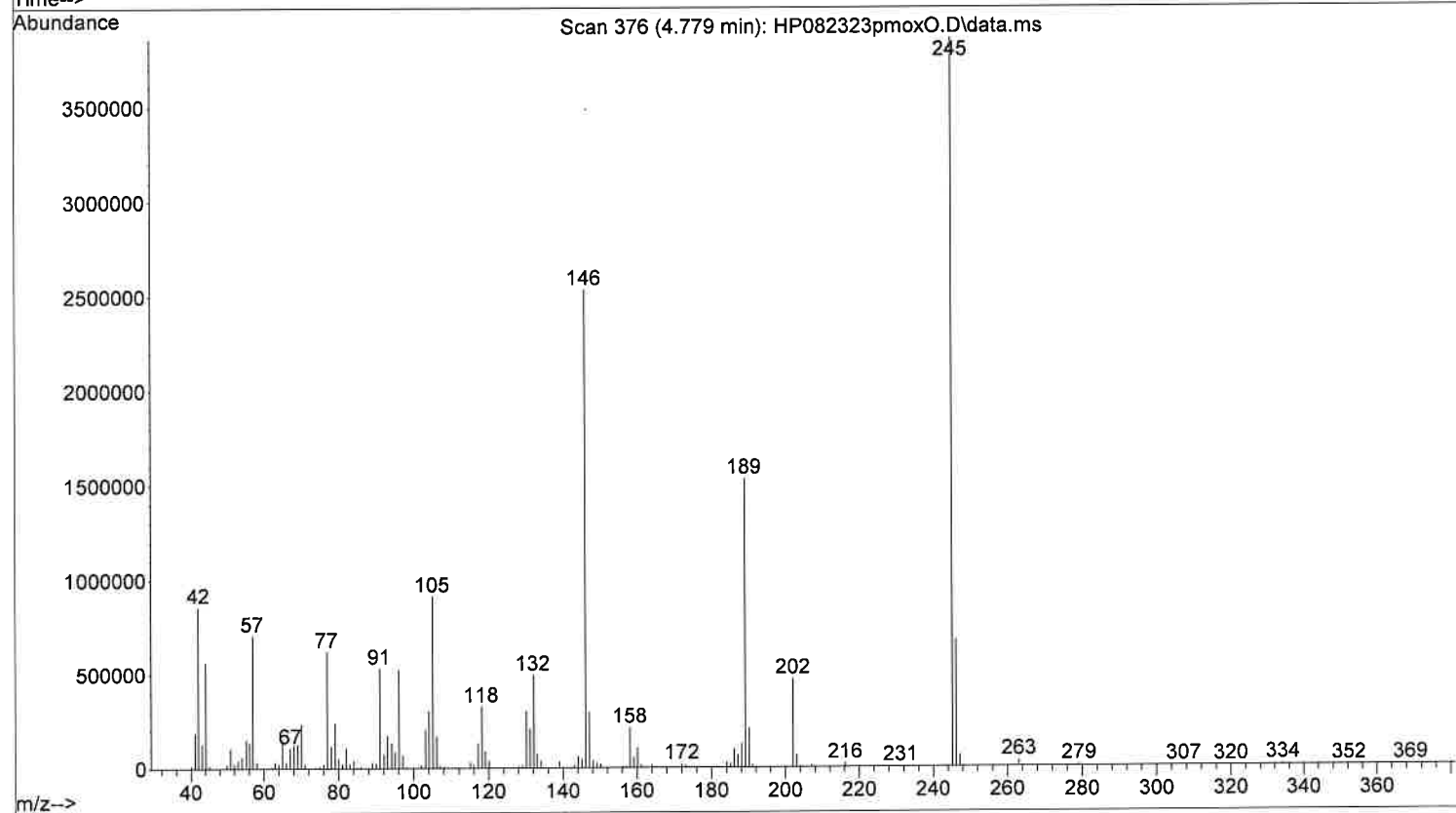
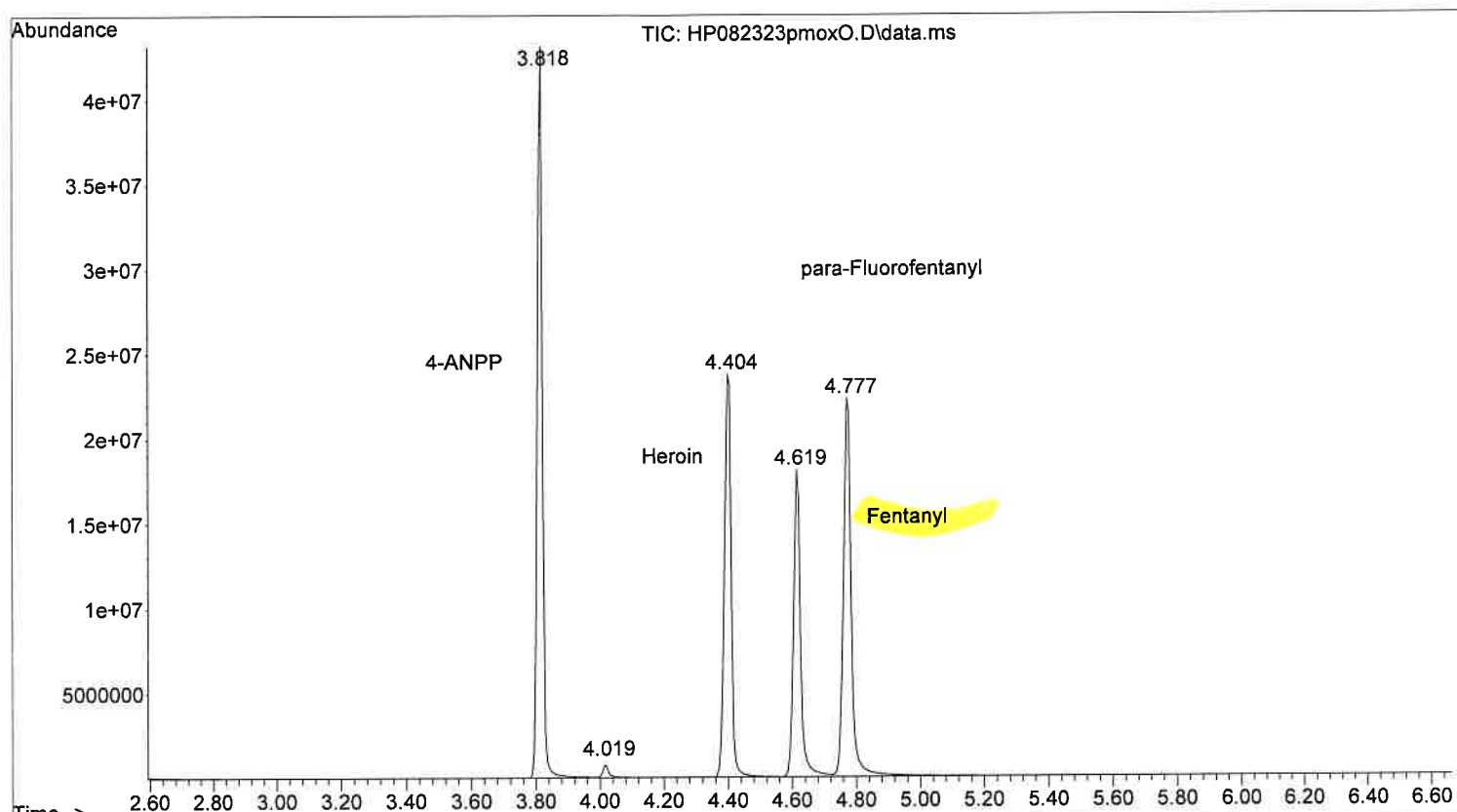
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmox0.D
Operator :
Acquired : 23 Aug 2023 09:16 using AcqMethod OPIATE.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



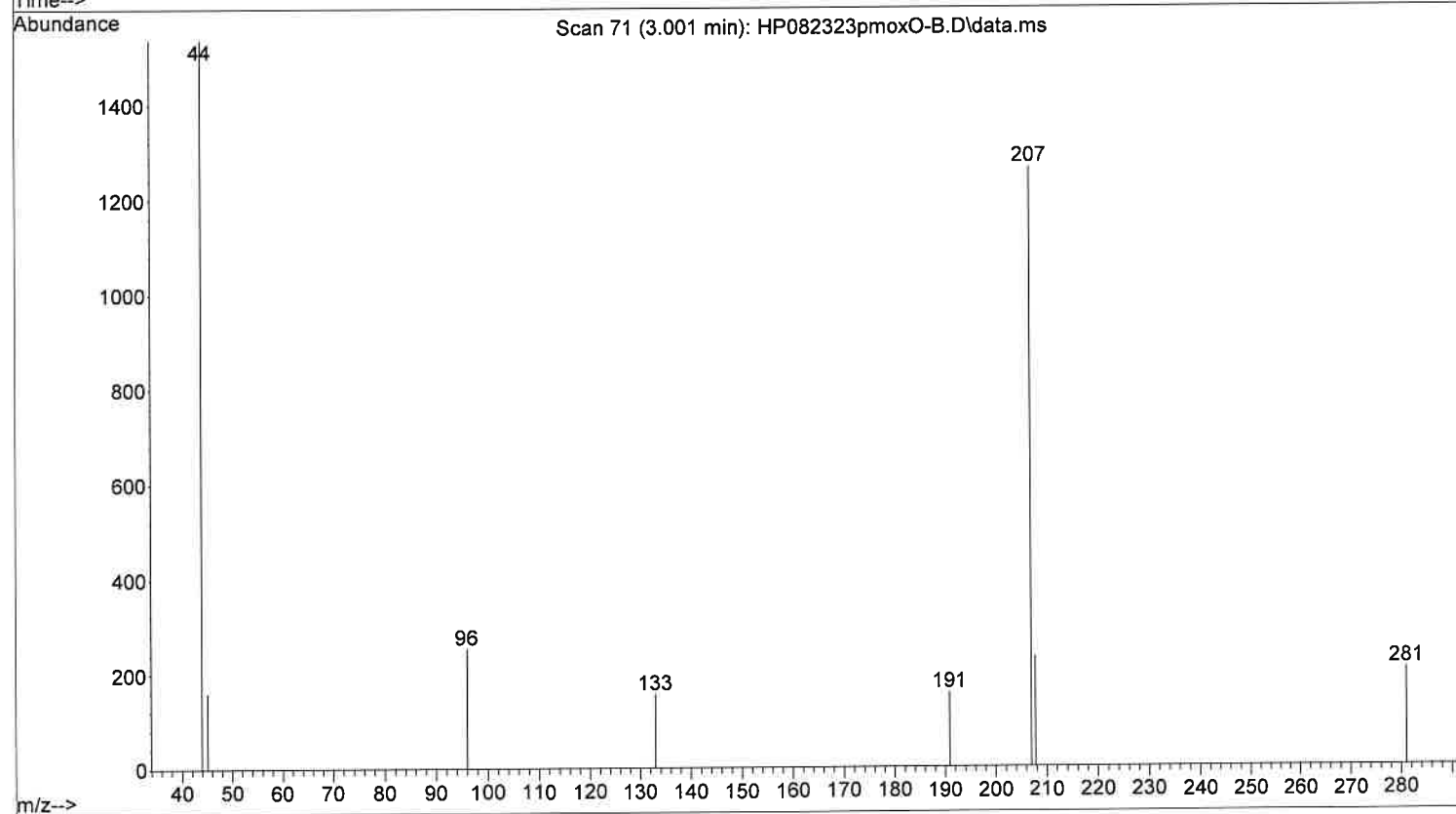
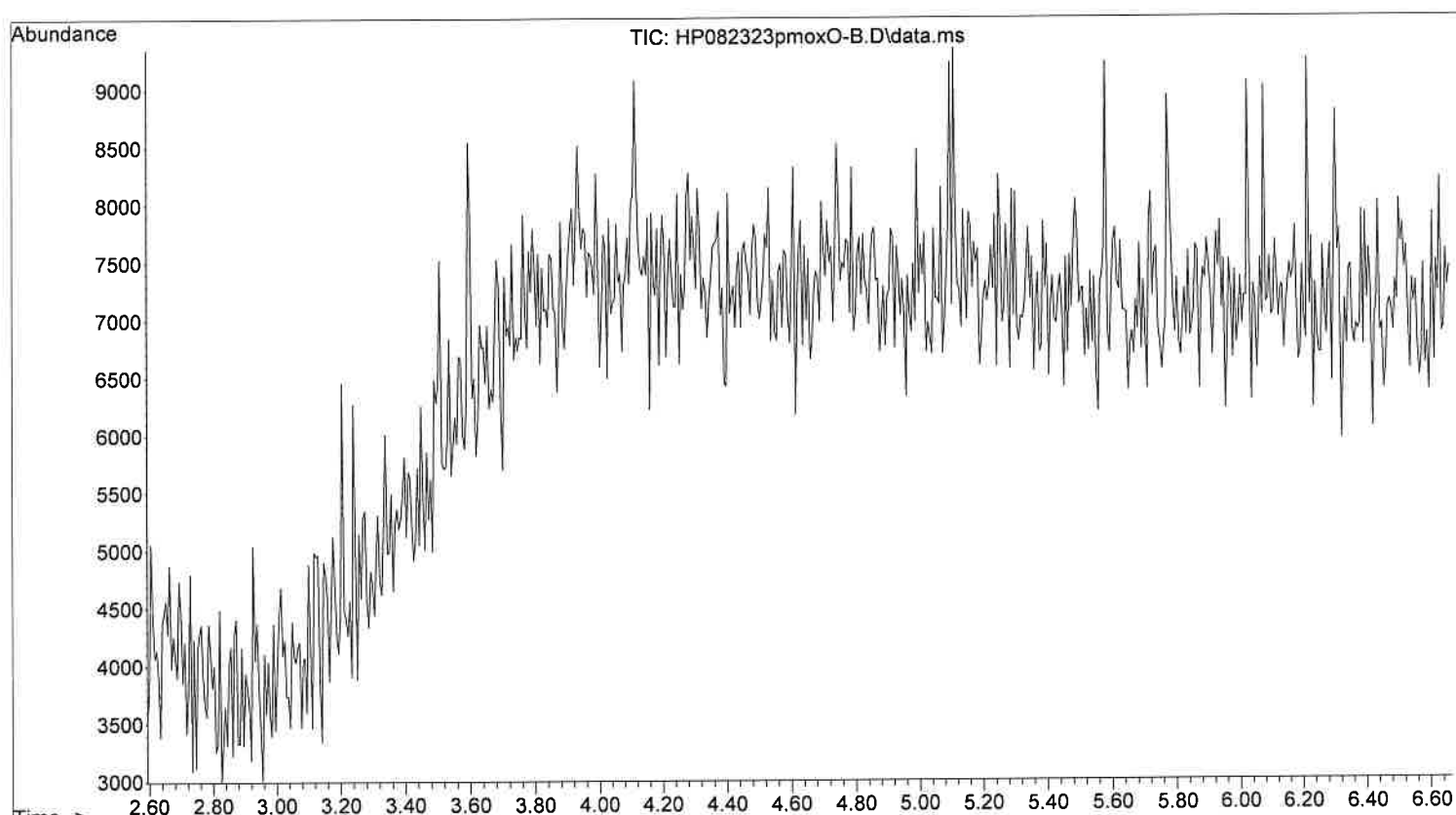
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxO.D
Operator :
Acquired : 23 Aug 2023 09:16 using AcqMethod OPIATE.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmox0.D
Operator :
Acquired : 23 Aug 2023 09:16 using AcqMethod OPIATE.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxO-B.D
Operator :
Acquired : 23 Aug 2023 09:08 using AcqMethod OPIATE.M
Instrument : Blossom
Sample Name: Chloroform Blank for P-MOX Standard
Misc Info :
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\STEROID.M

Method Sections To Run:

(X) Save Copy of Method With Data
() Instrument Control Pre-Run Cmd/Macro =
() Data Analysis Pre-Run Cmd/Macro =
(X) Data Acquisition
() Data Analysis
() Instrument Control Post-Run Cmd/Macro =
() Data Analysis Post-Run Cmd/Macro =

Method Comments:

STEROID

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\STEROID.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	2.50
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
2.50	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
------	---------------	-----------

Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\STEROID.M
Thu Aug 24 15:42:57 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
GC Summary
Run Time 20 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 70 °C
Hold Time 1 min
Post Run 50 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 12 min

Equilibration Time 0.5 min
Max Temperature 325 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 0
Sample Wash Volume 8 µL
Sample Pumps 2
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 6000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 6000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 0 sec
Sample Depth Disabled
Injection Type Standard
L1 Airgap 0.2 µL

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 8.5 psi
Septum Purge Flow	On 48.637 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	45 :1
Liner	44.645 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	Off
Pre-Run Flow Test	Off
Liner	Off
	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.99211 mL/min
Post Run	1 mL/min
Column Information	Agilent 128-0112
Description	DB-1ms

Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	70 °C
Pressure	8.5 psi
Flow	0.99211 mL/min
Average Velocity	57.95 cm/sec
Holdup Time	0.34512 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None
Signal #8:	
Description	None

TUNE PARAMETERS for SN: US2312MA32

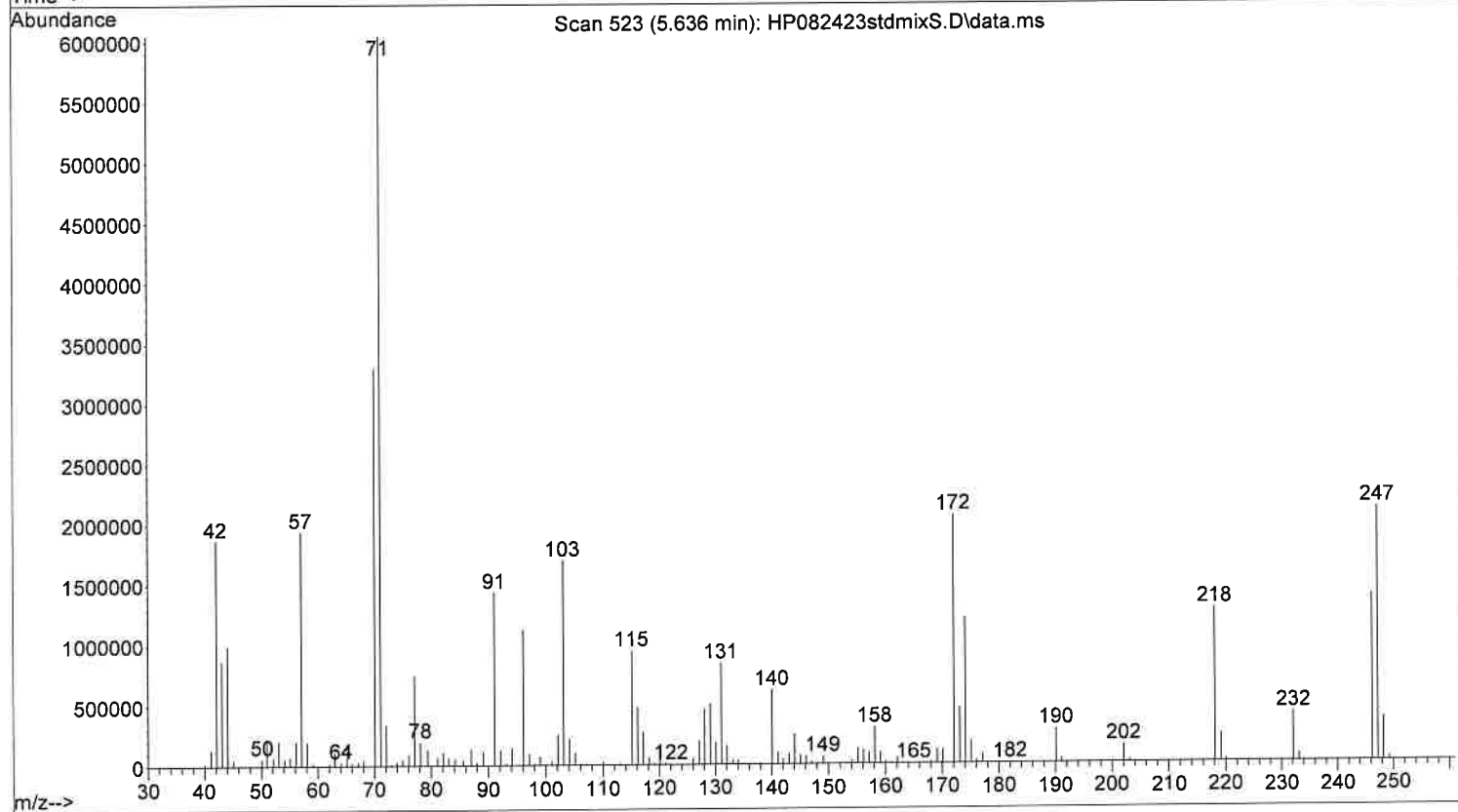
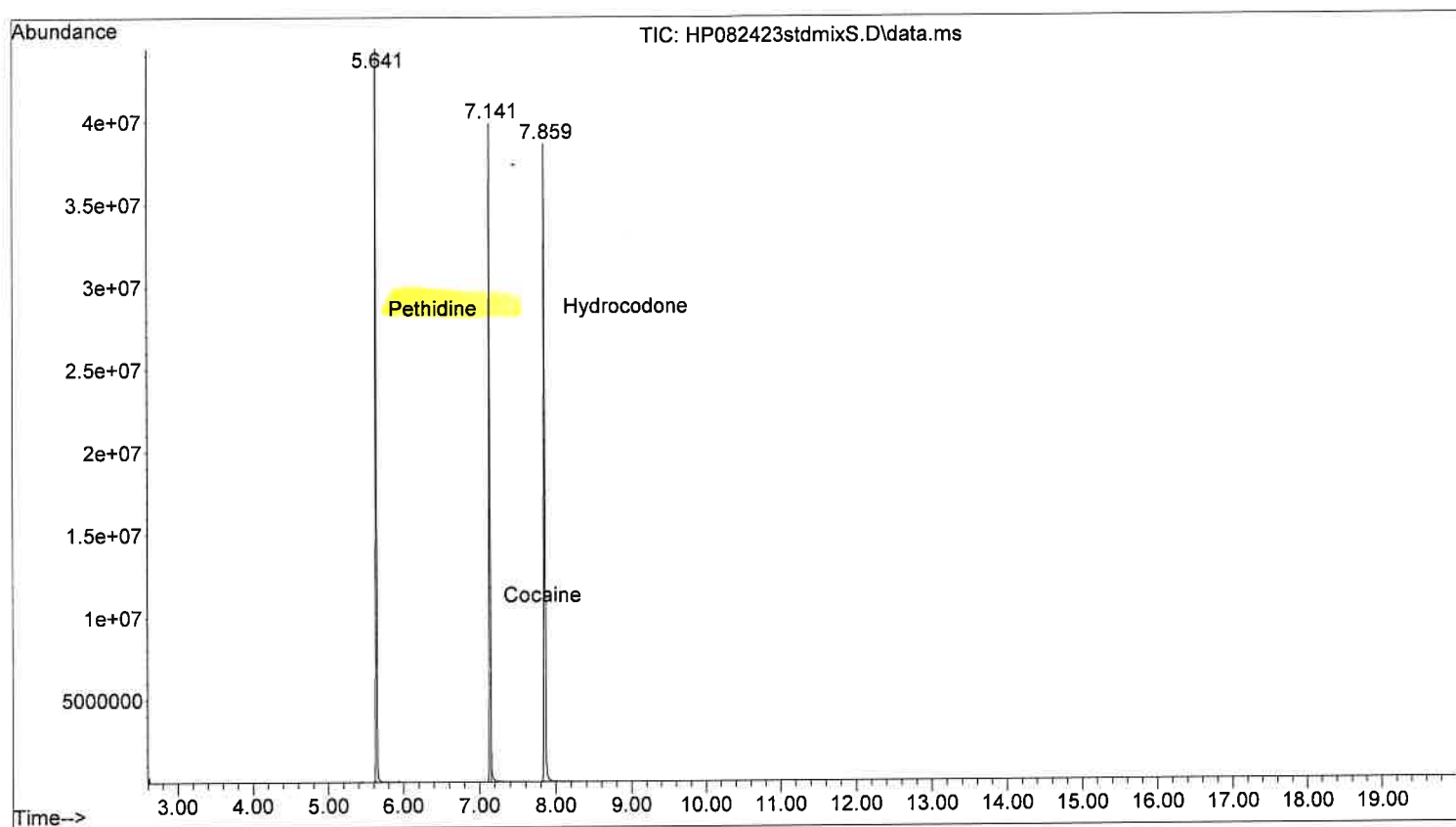
Trace Ion Detection is OFF.

34.593	:	EMISSION	
70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
0.000	:	Ion_Body	
0.000	:	EXTLENS	
198.000	:	MASSGAIN	
-24.000	:	MASSOFFSET	

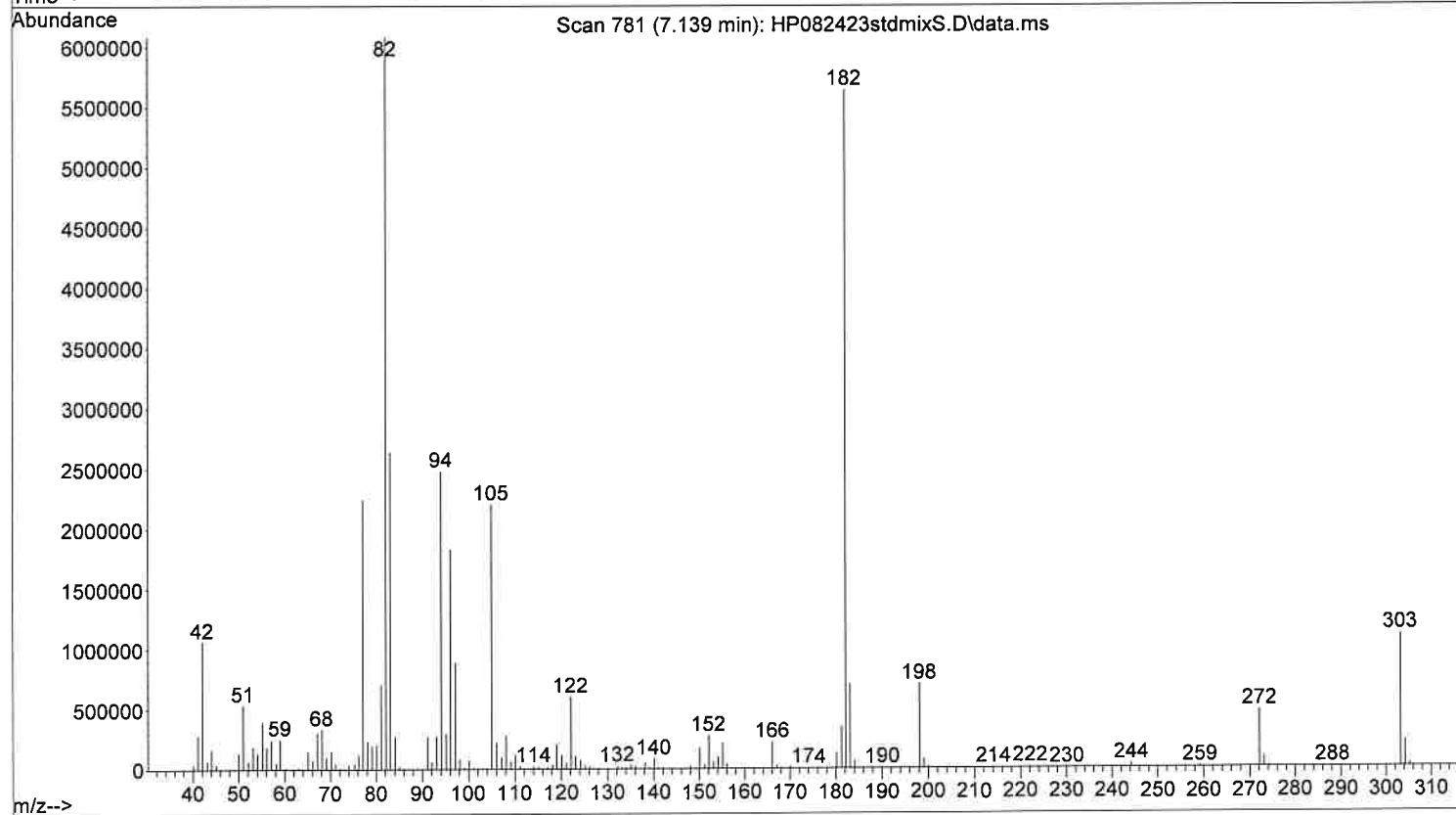
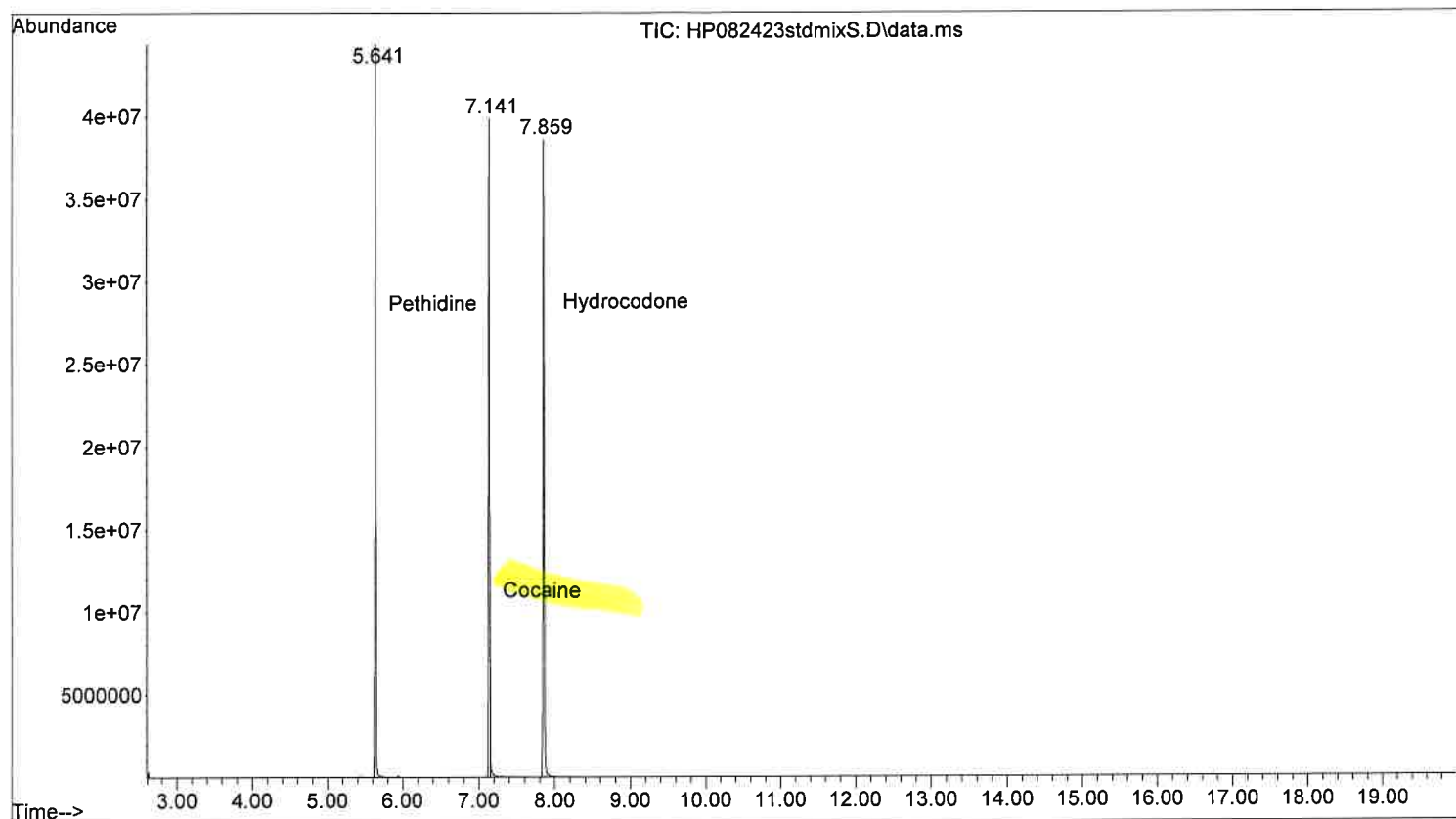
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

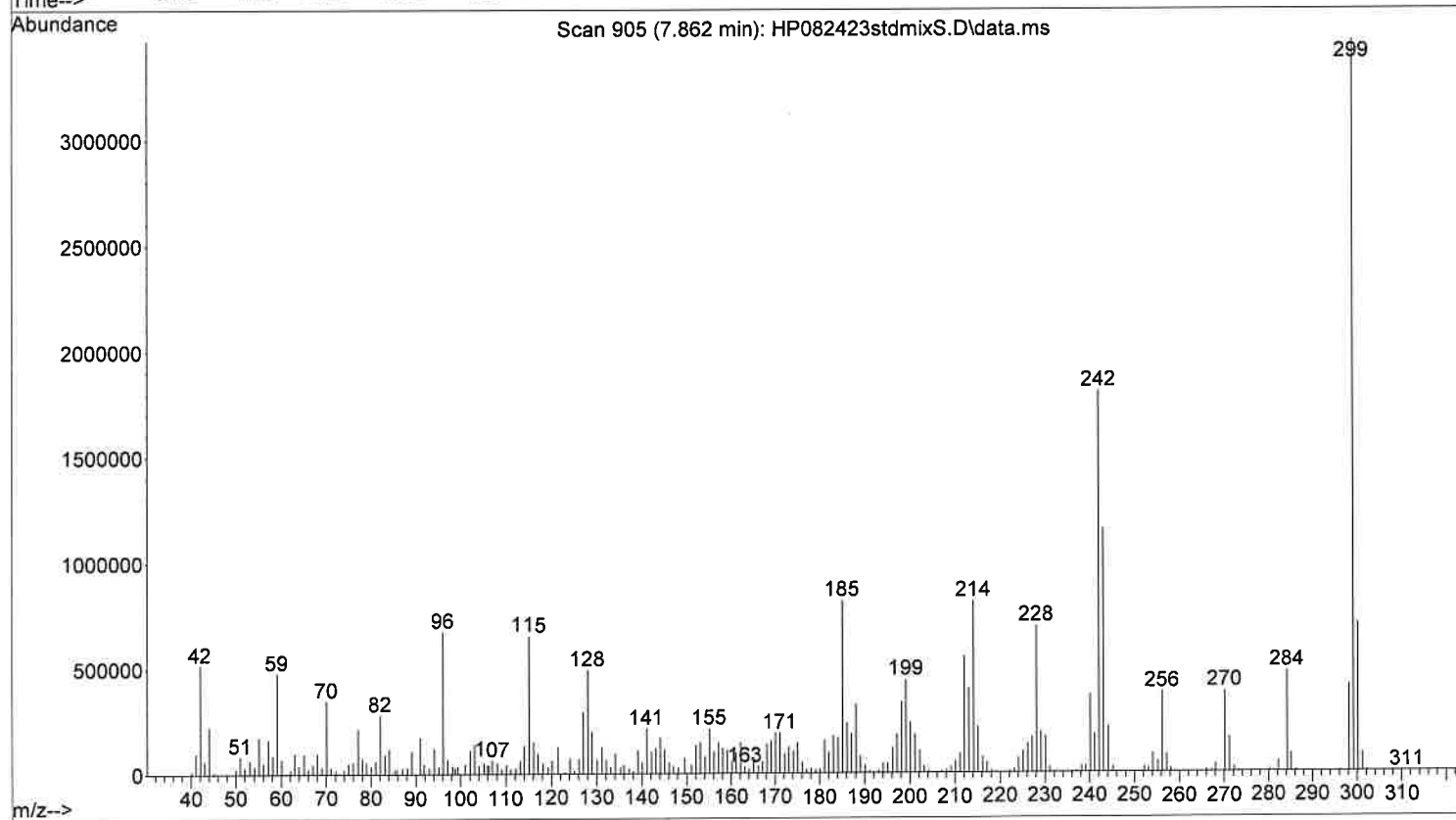
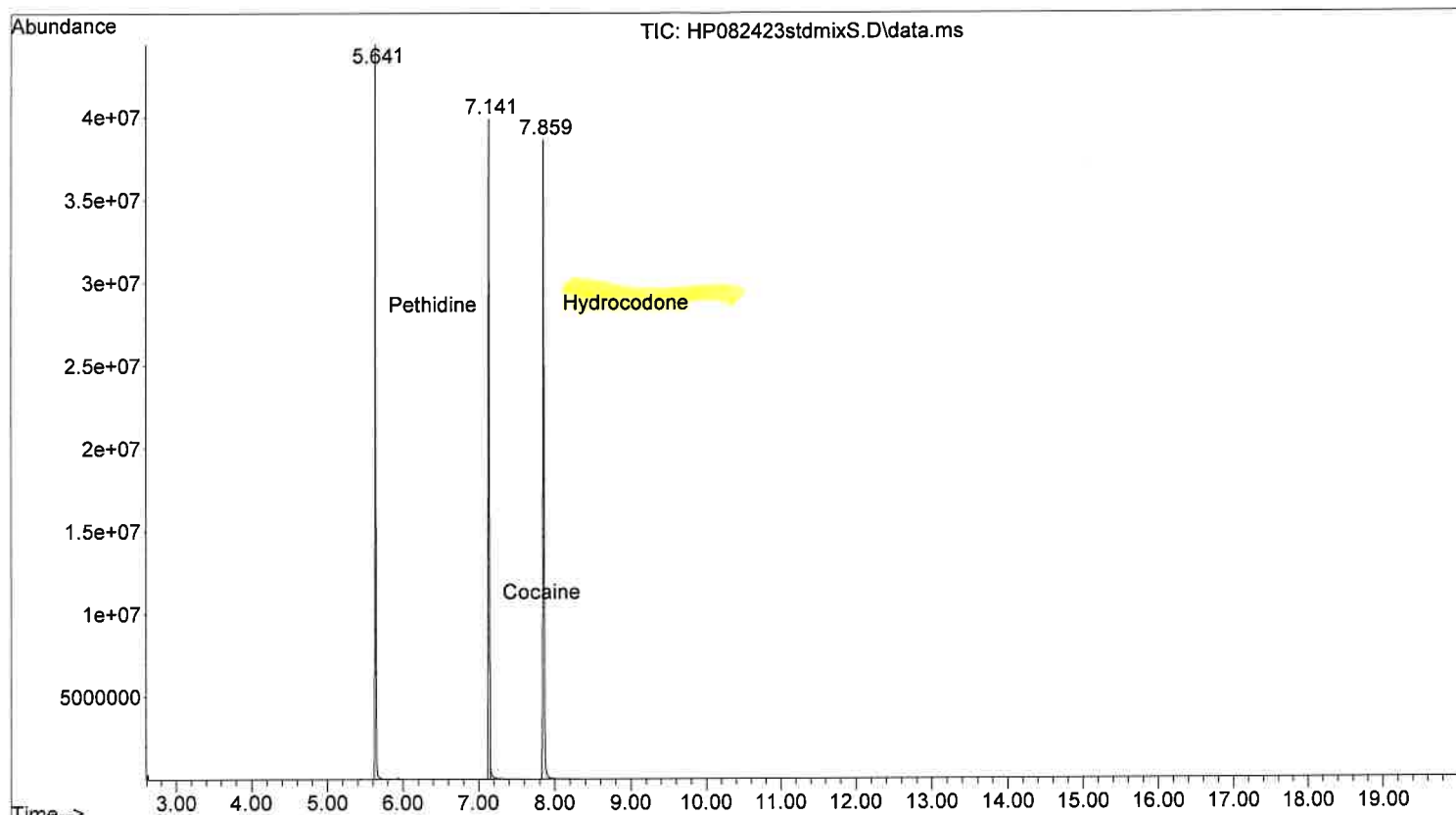
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423stdmixS.D
Operator :
Acquired : 24 Aug 2023 17:02 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



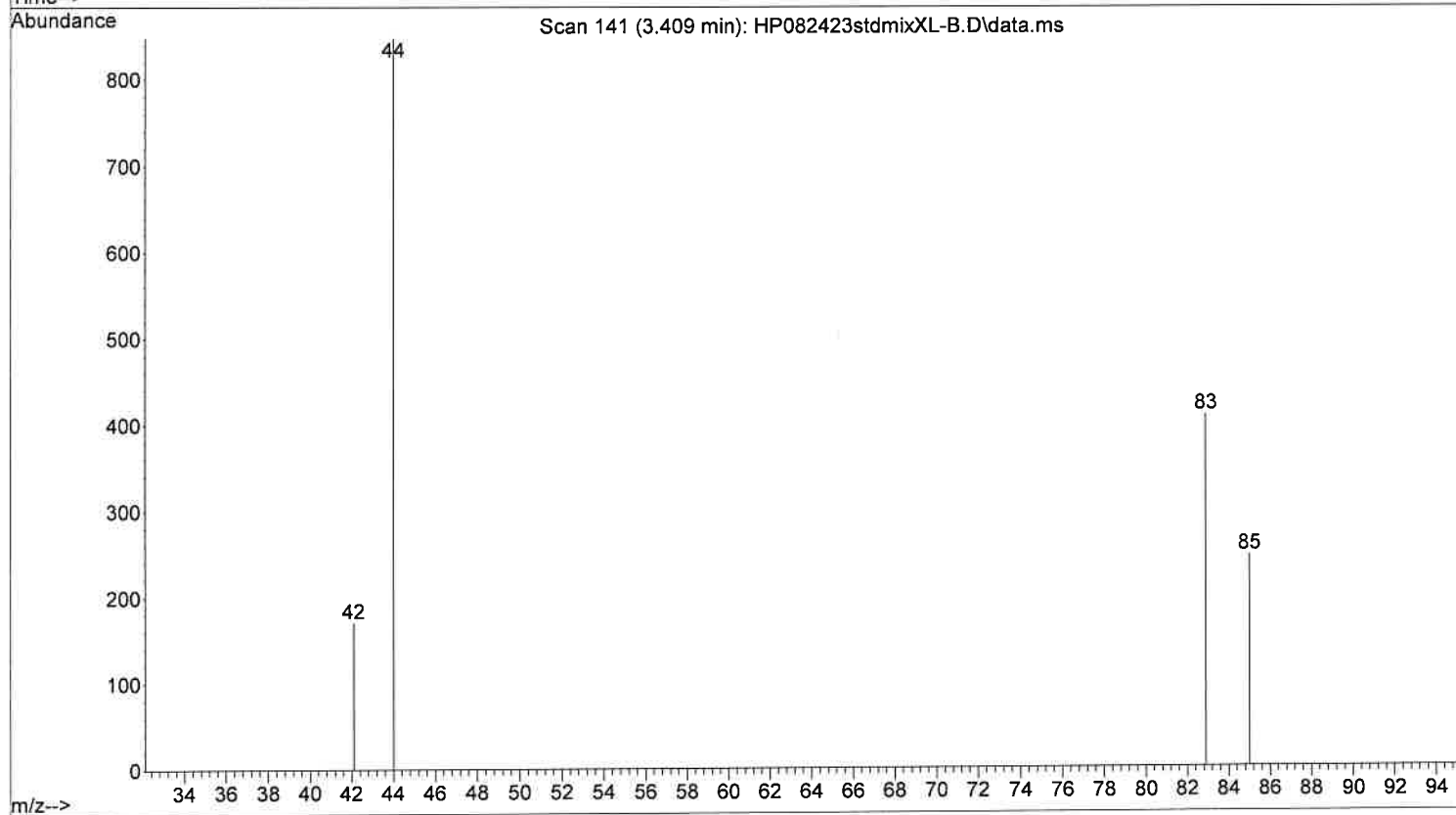
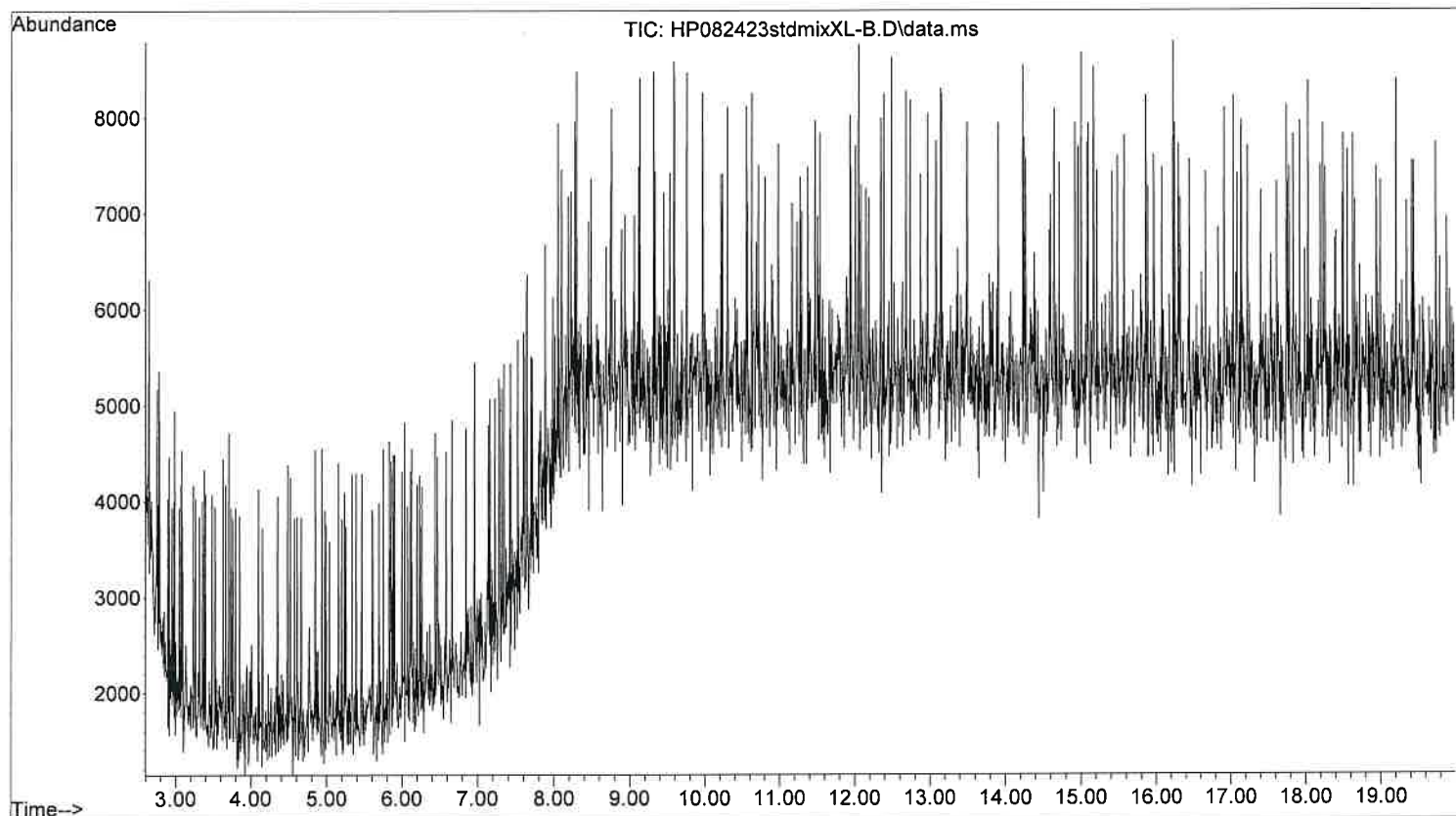
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
423stdmixS.D
Operator :
Acquired : 24 Aug 2023 17:02 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



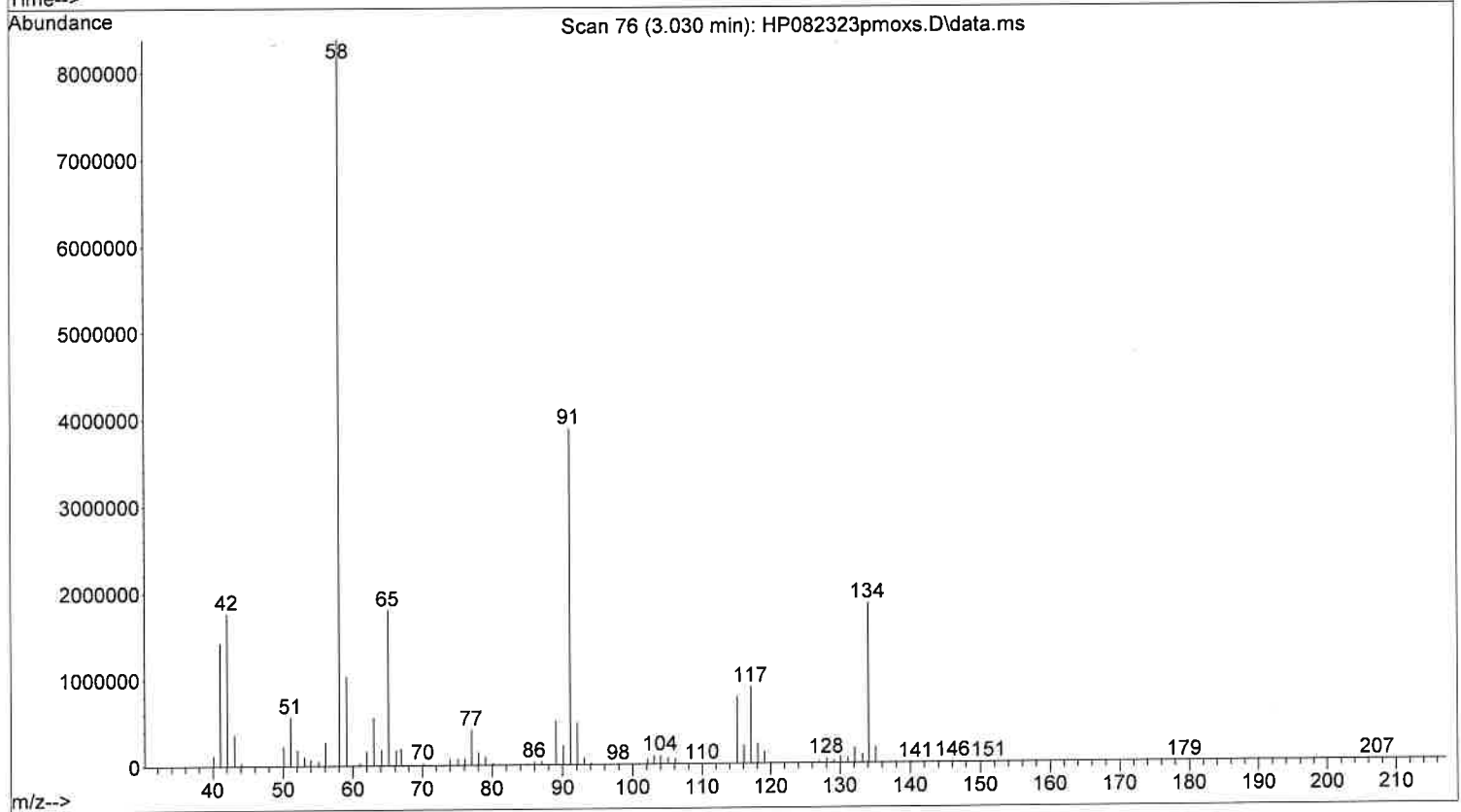
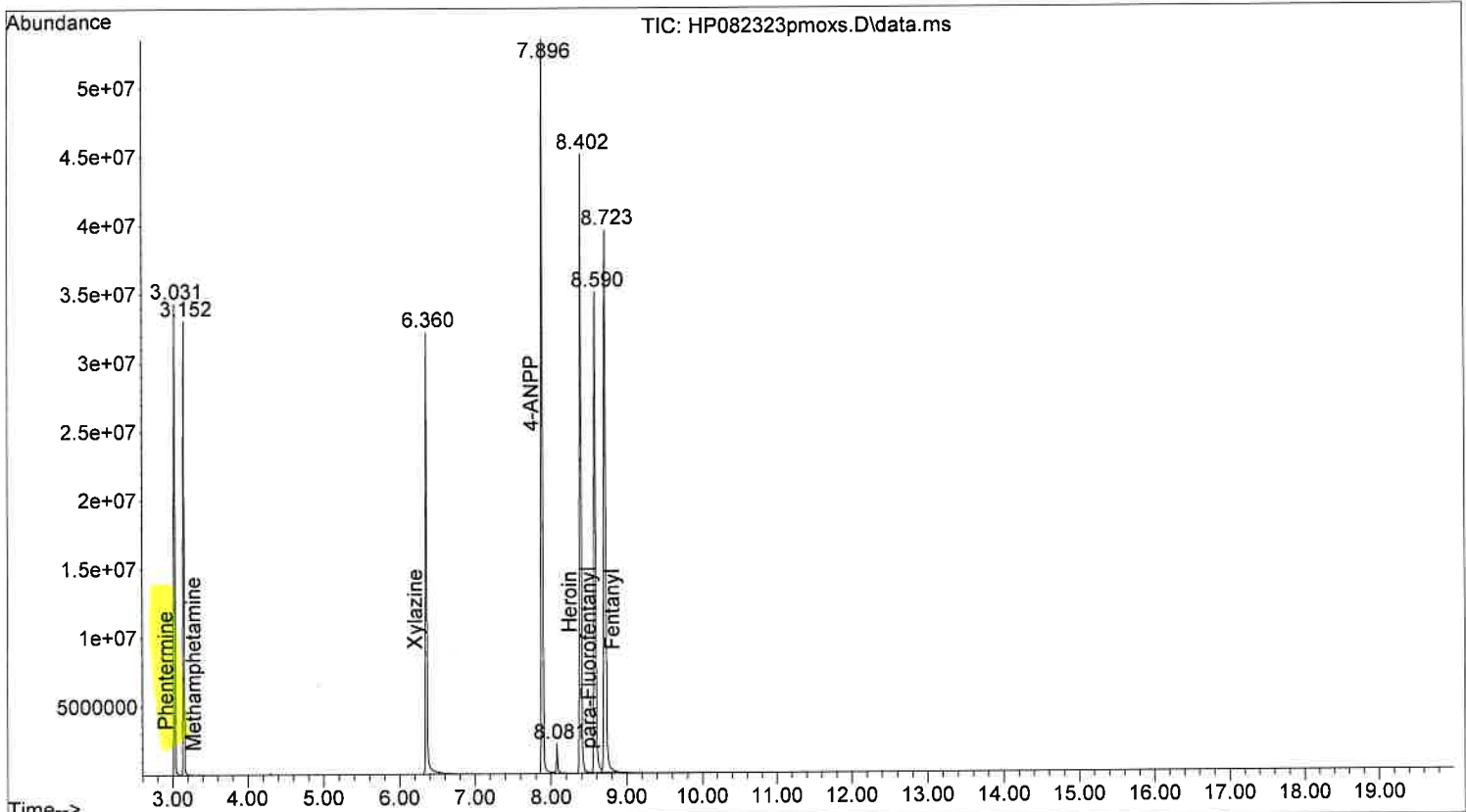
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423stdmixS.D
Operator :
Acquired : 24 Aug 2023 17:02 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



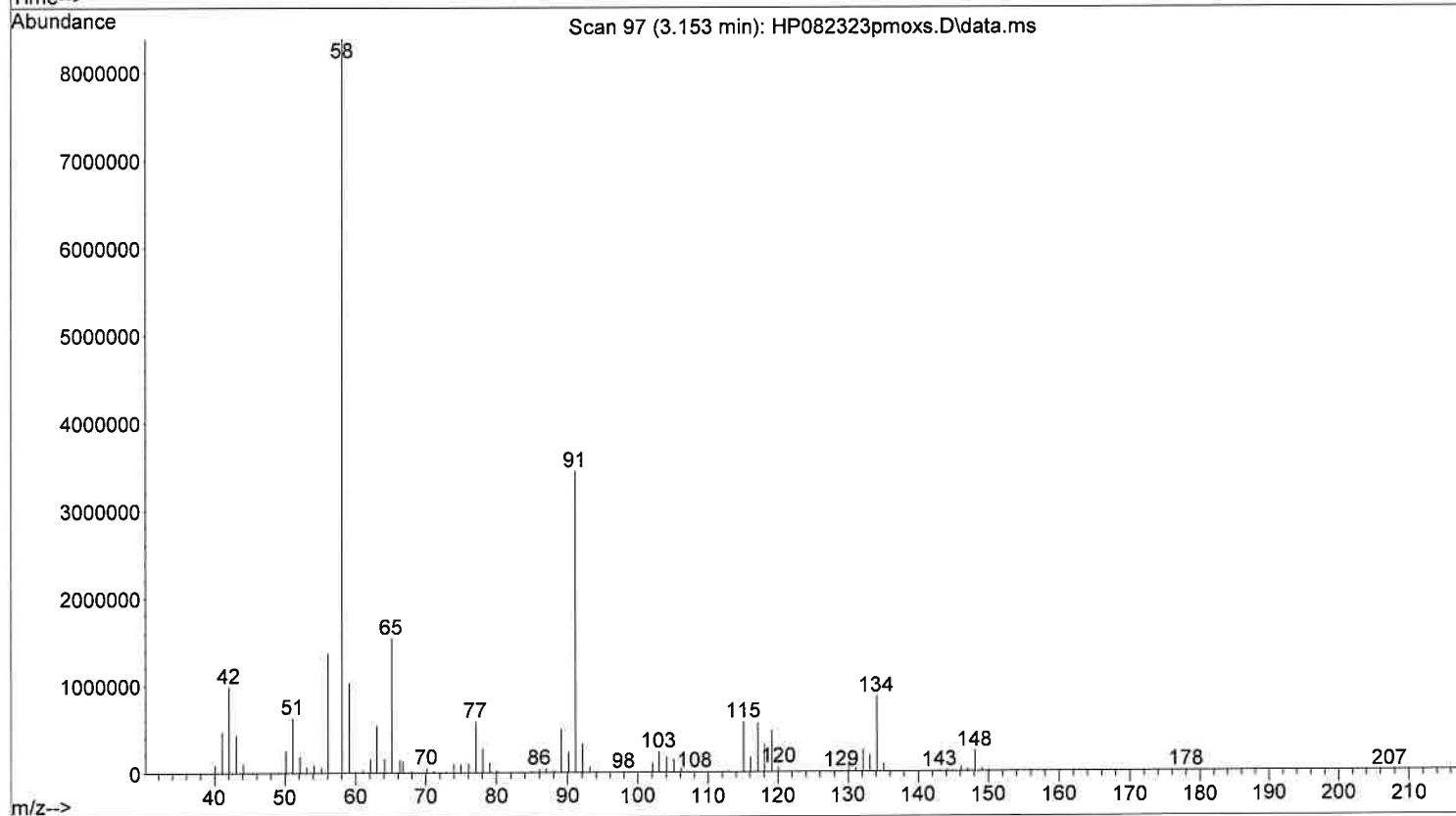
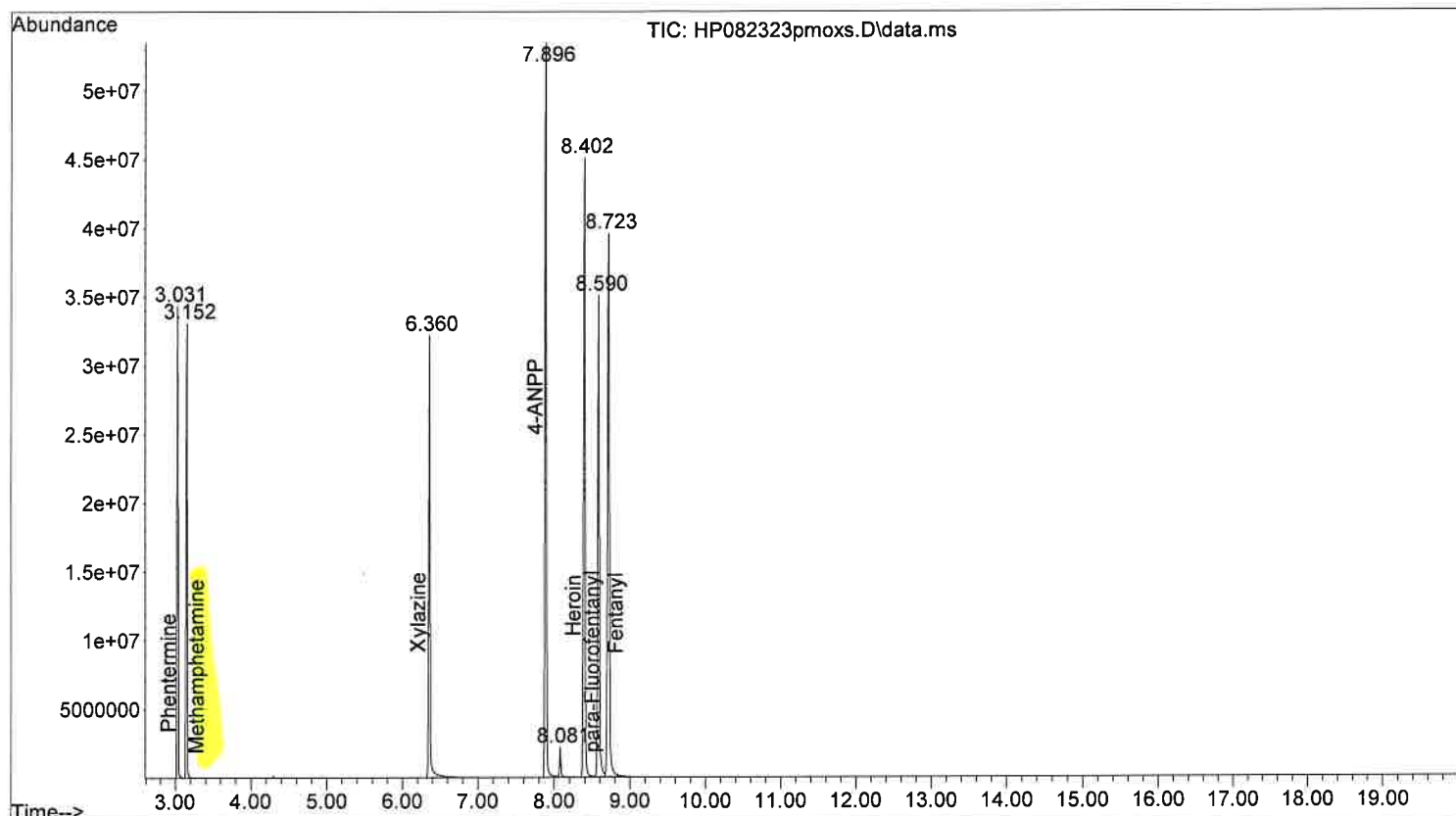
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 423stdmixXL-B.D
Operator :
Acquired : 24 Aug 2023 17:43 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: Chloroform Blank for Standard Mix
Misc Info :
Vial Number: 2



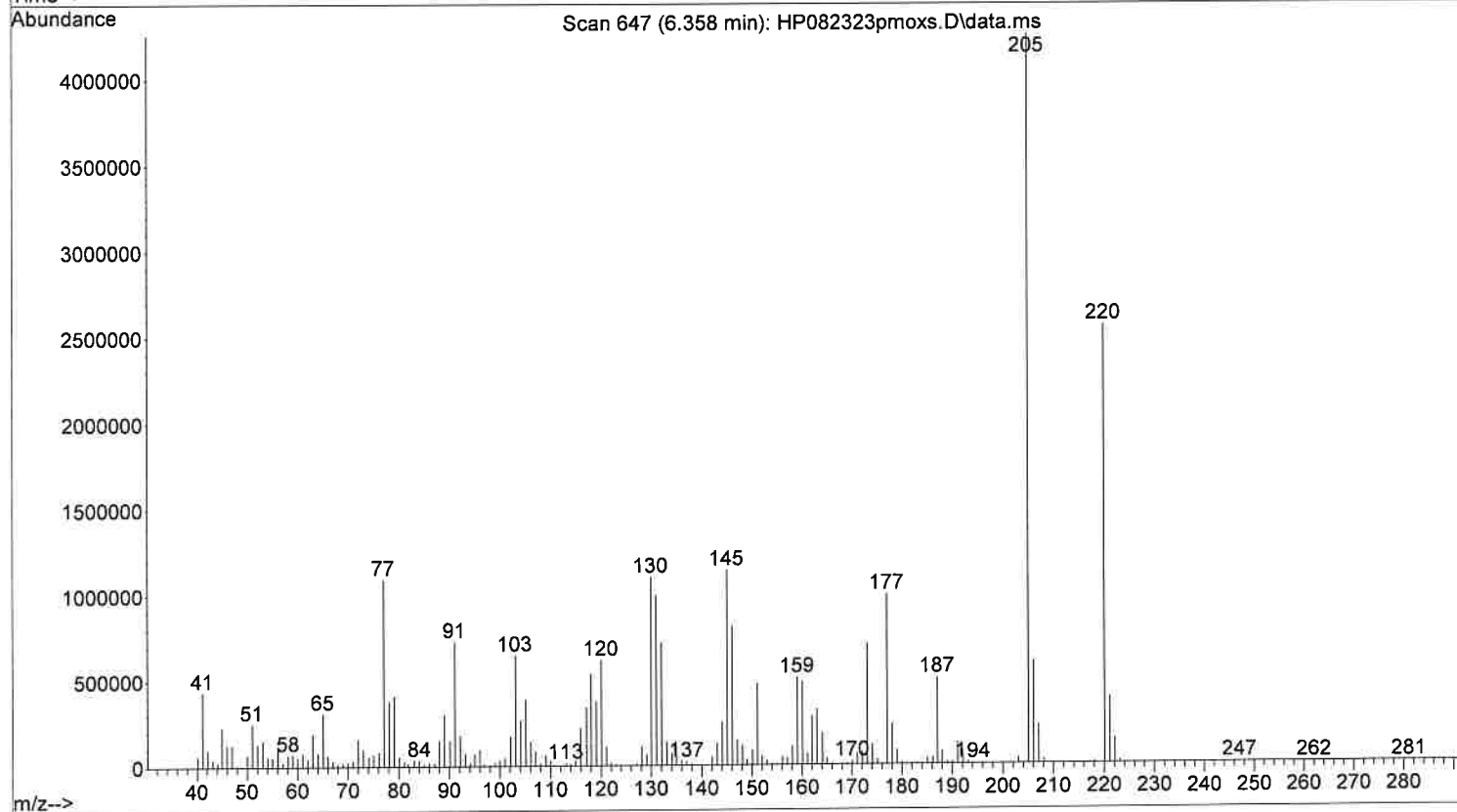
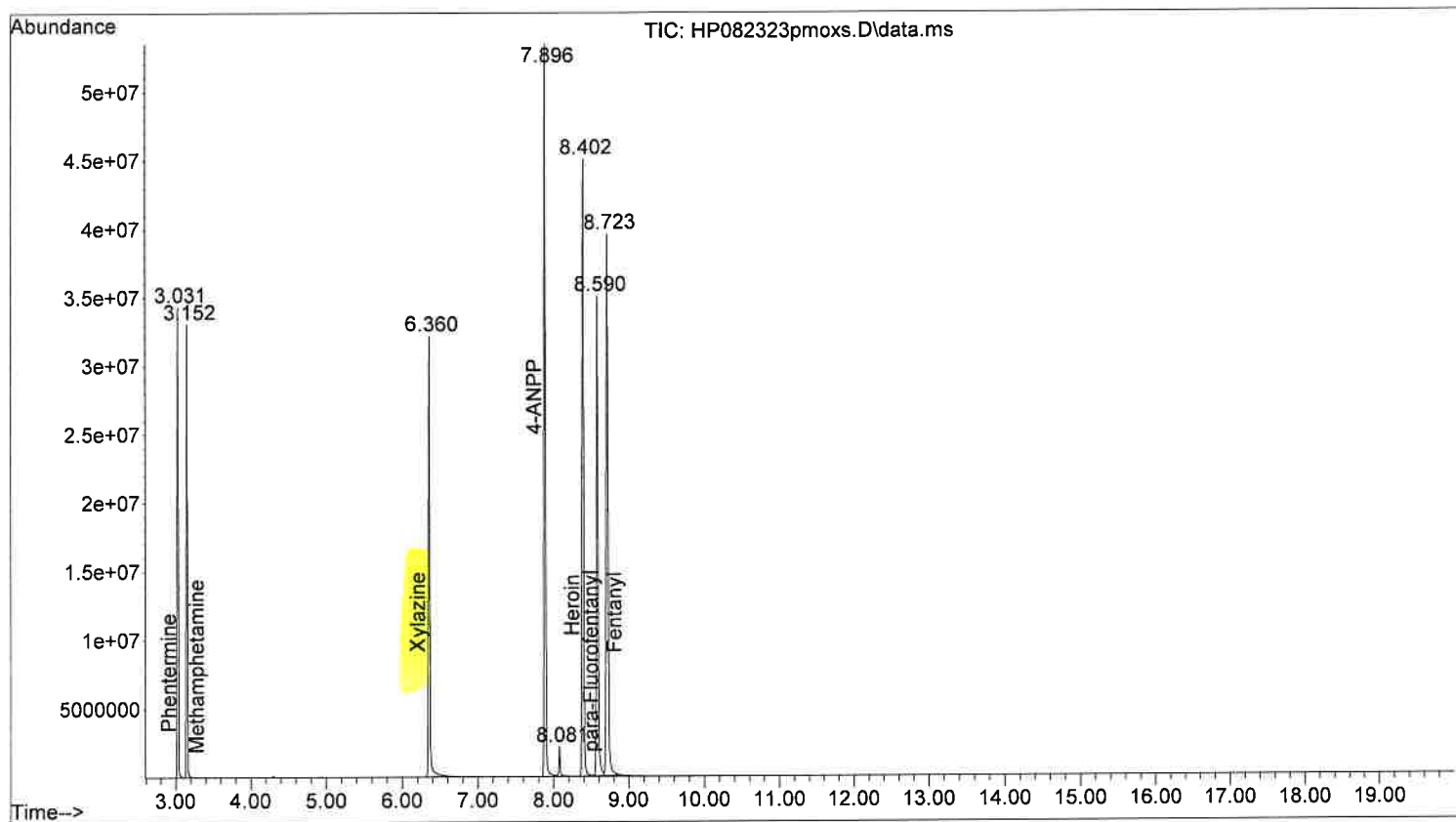
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



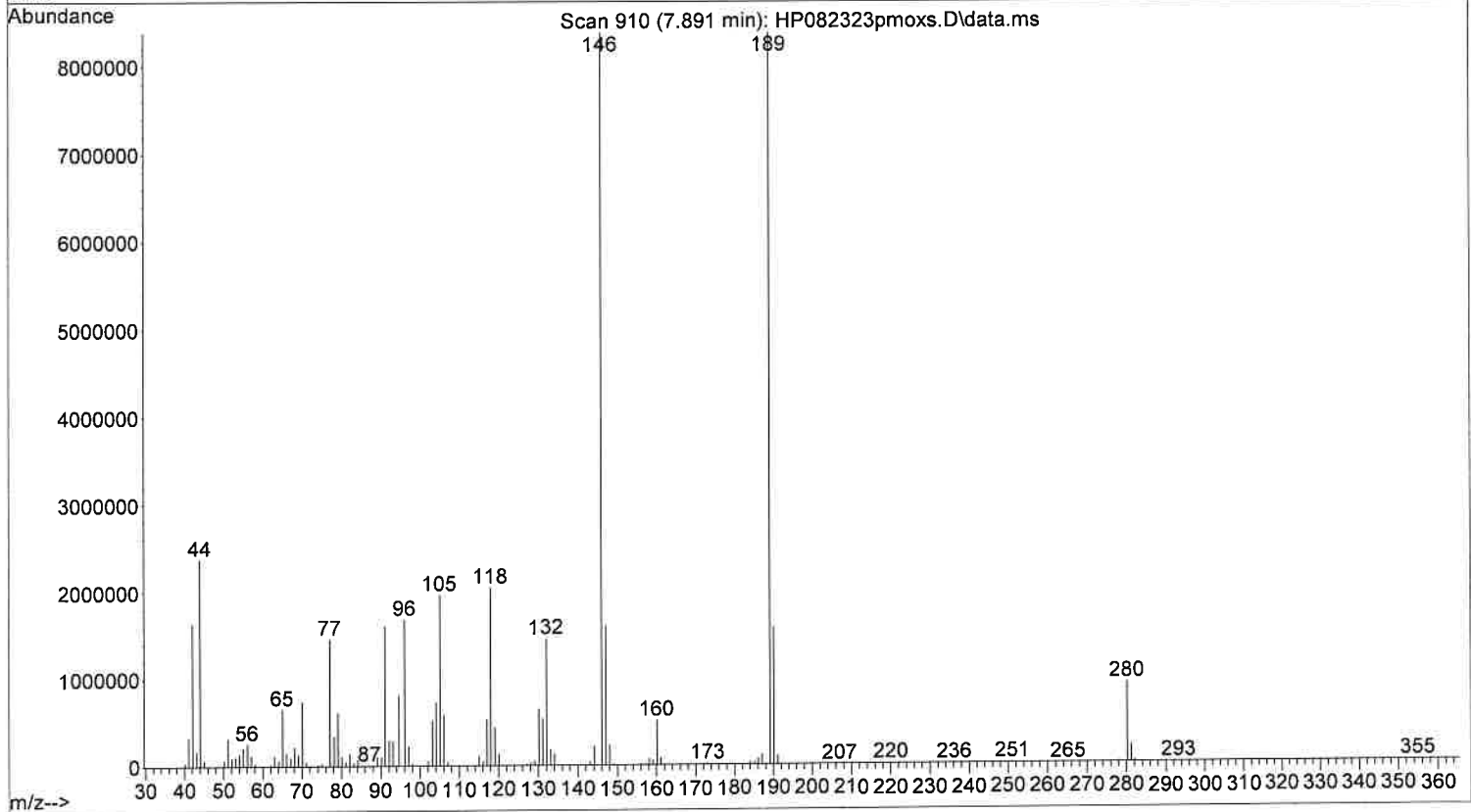
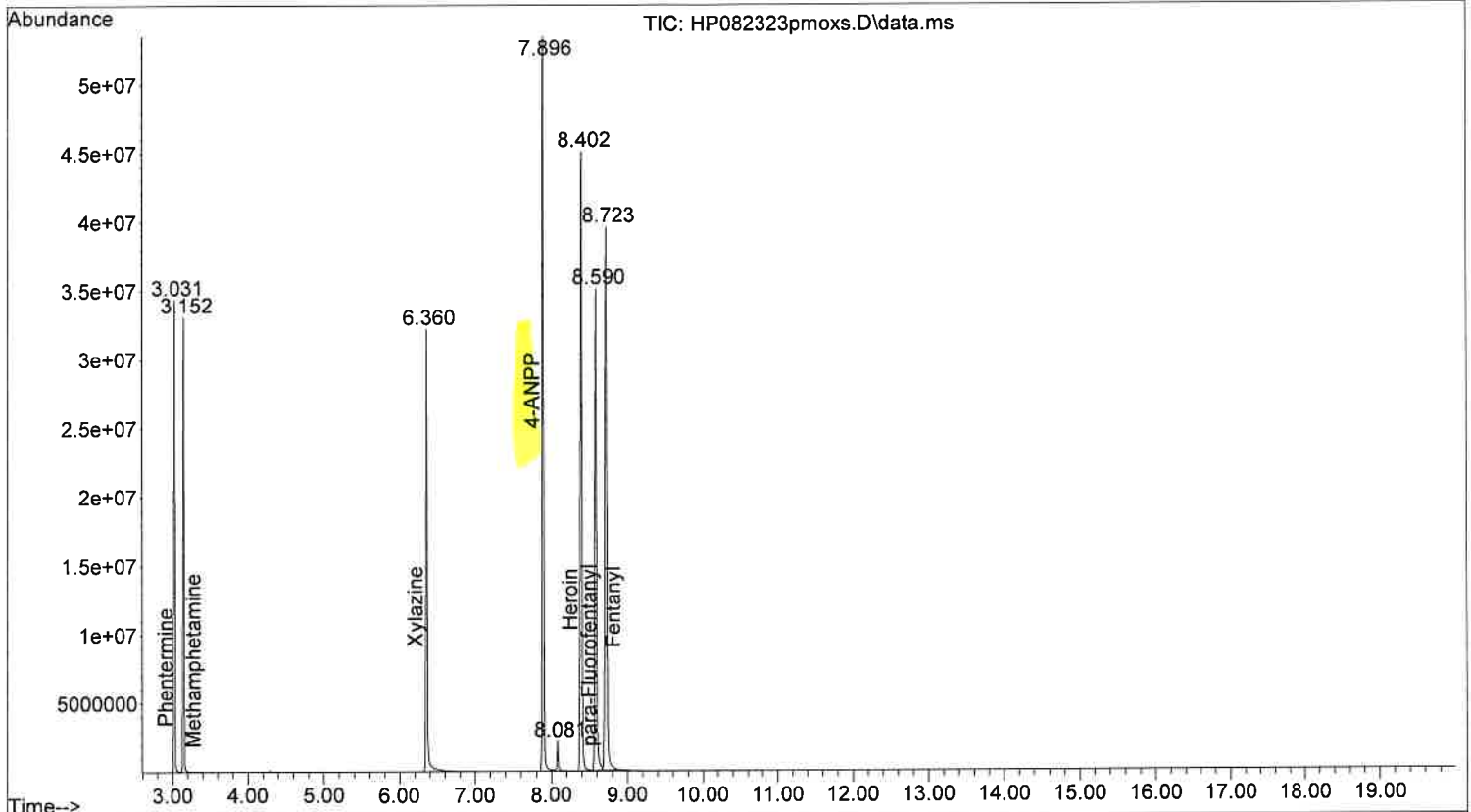
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



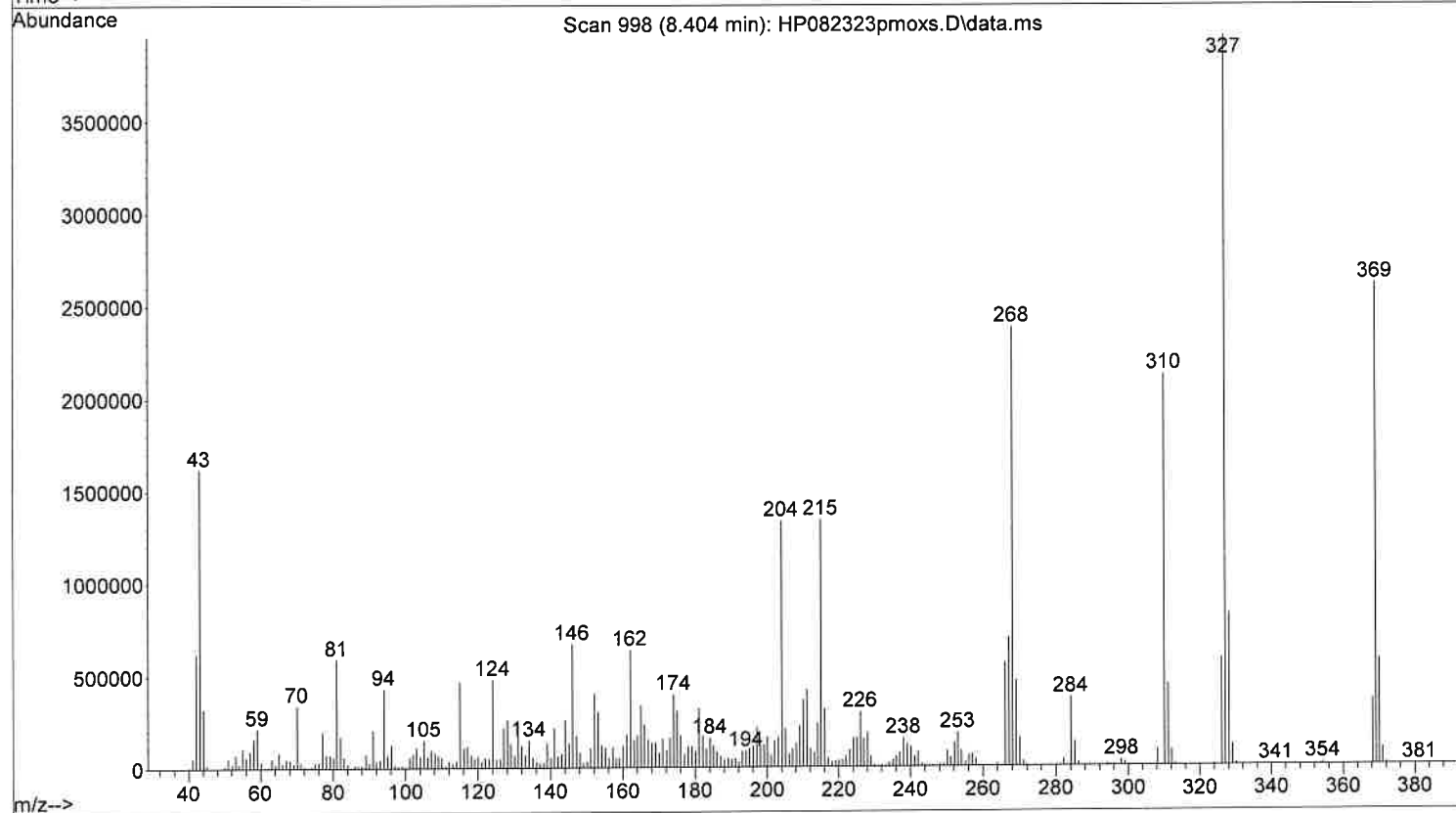
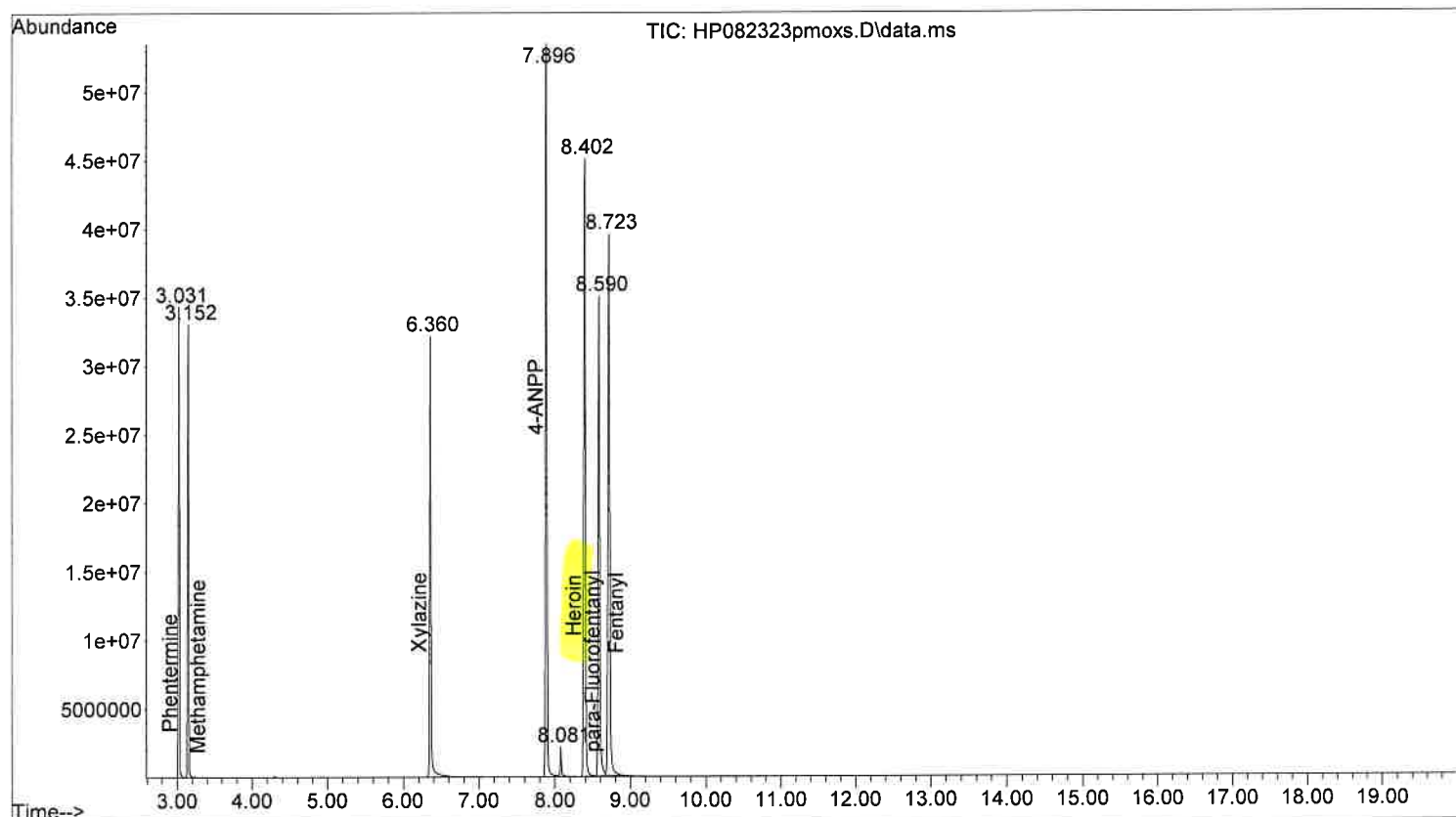
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



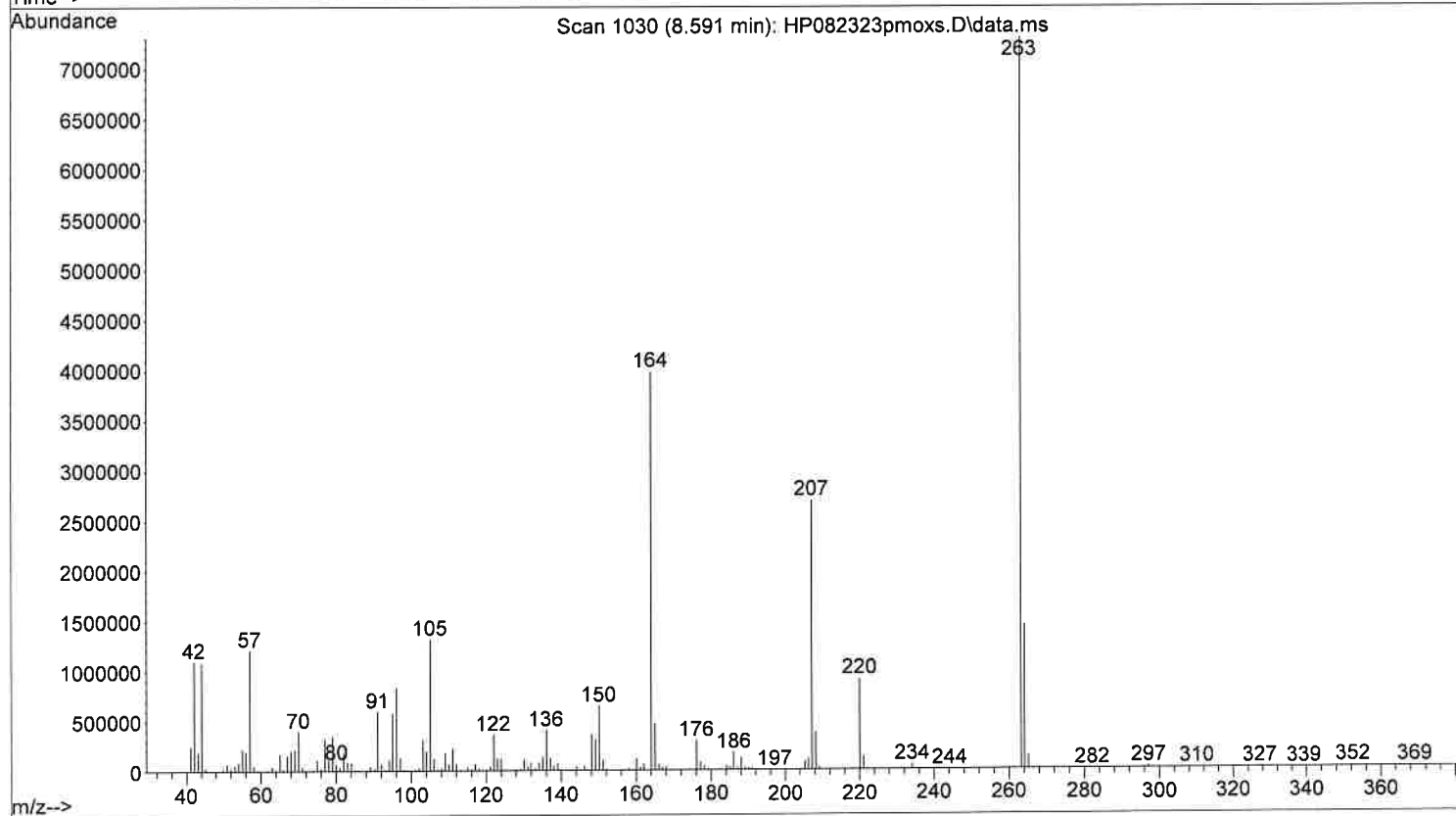
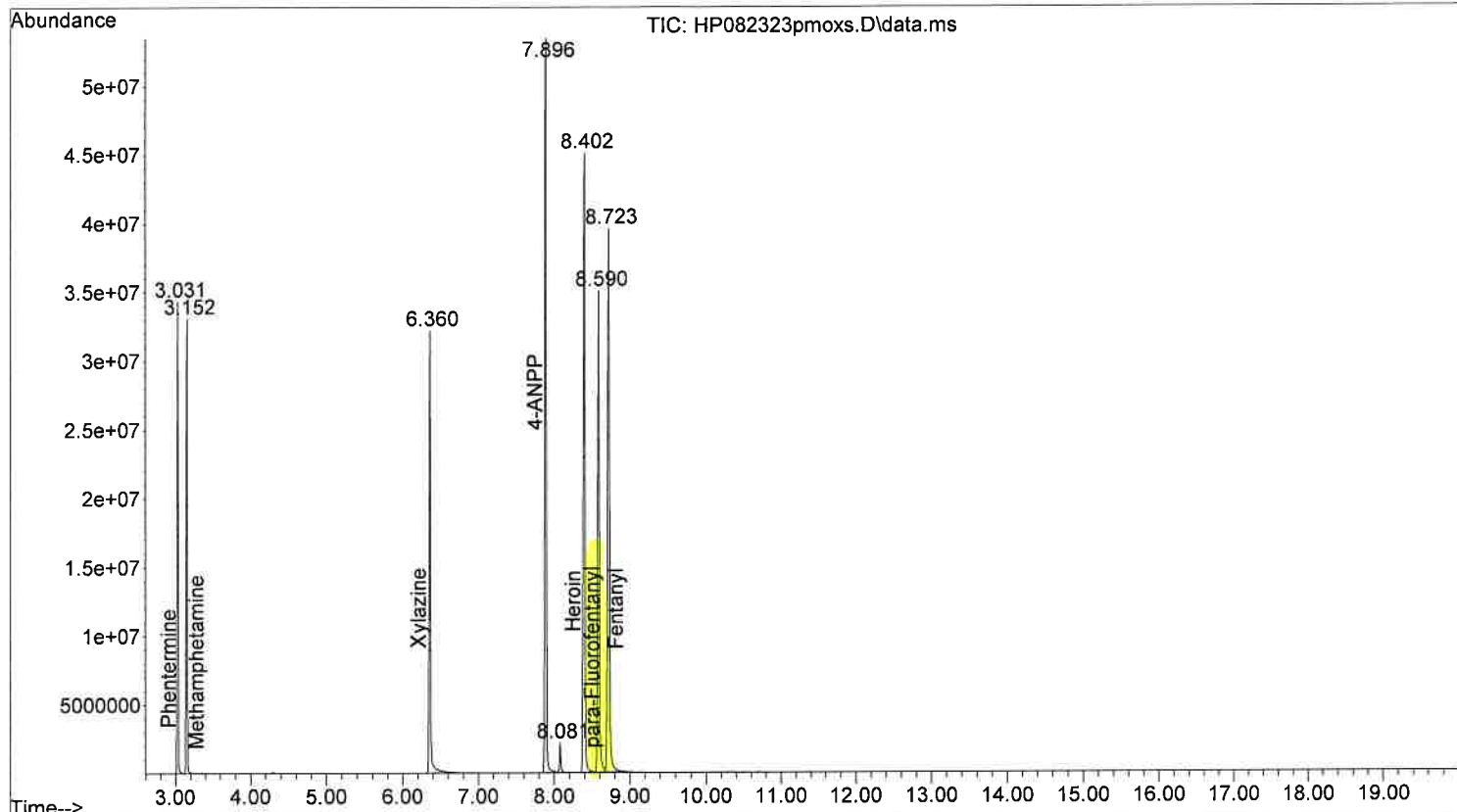
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



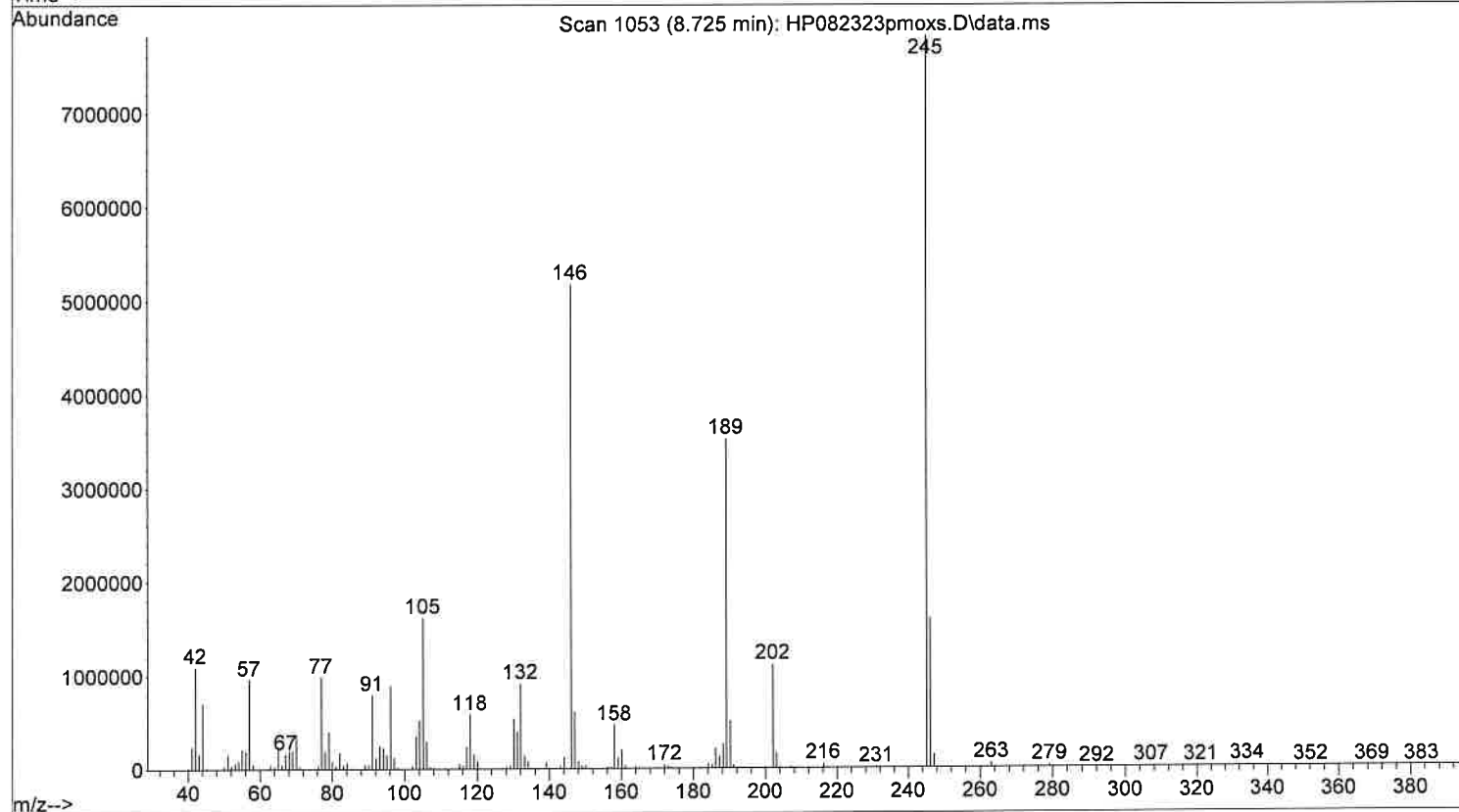
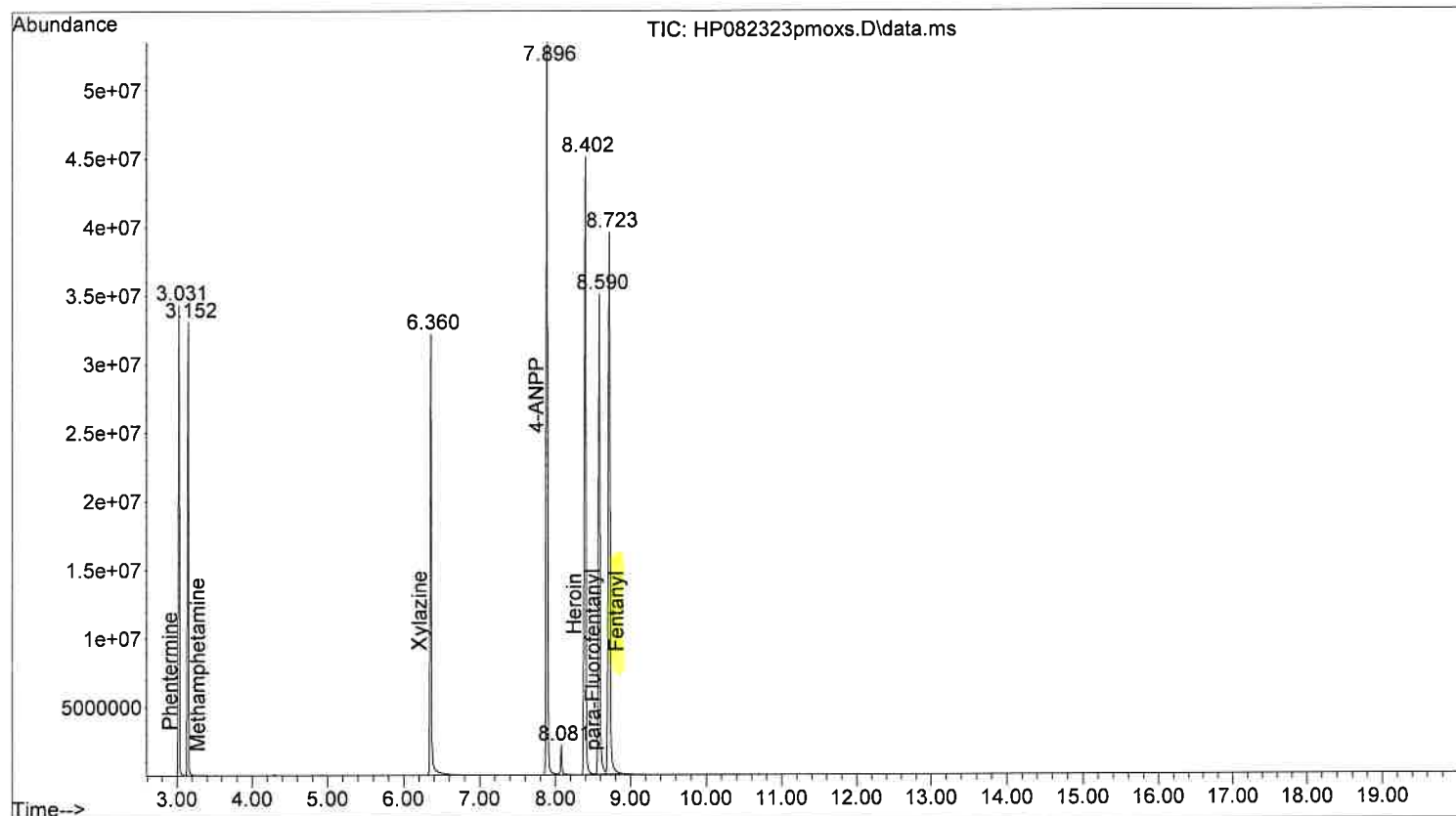
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



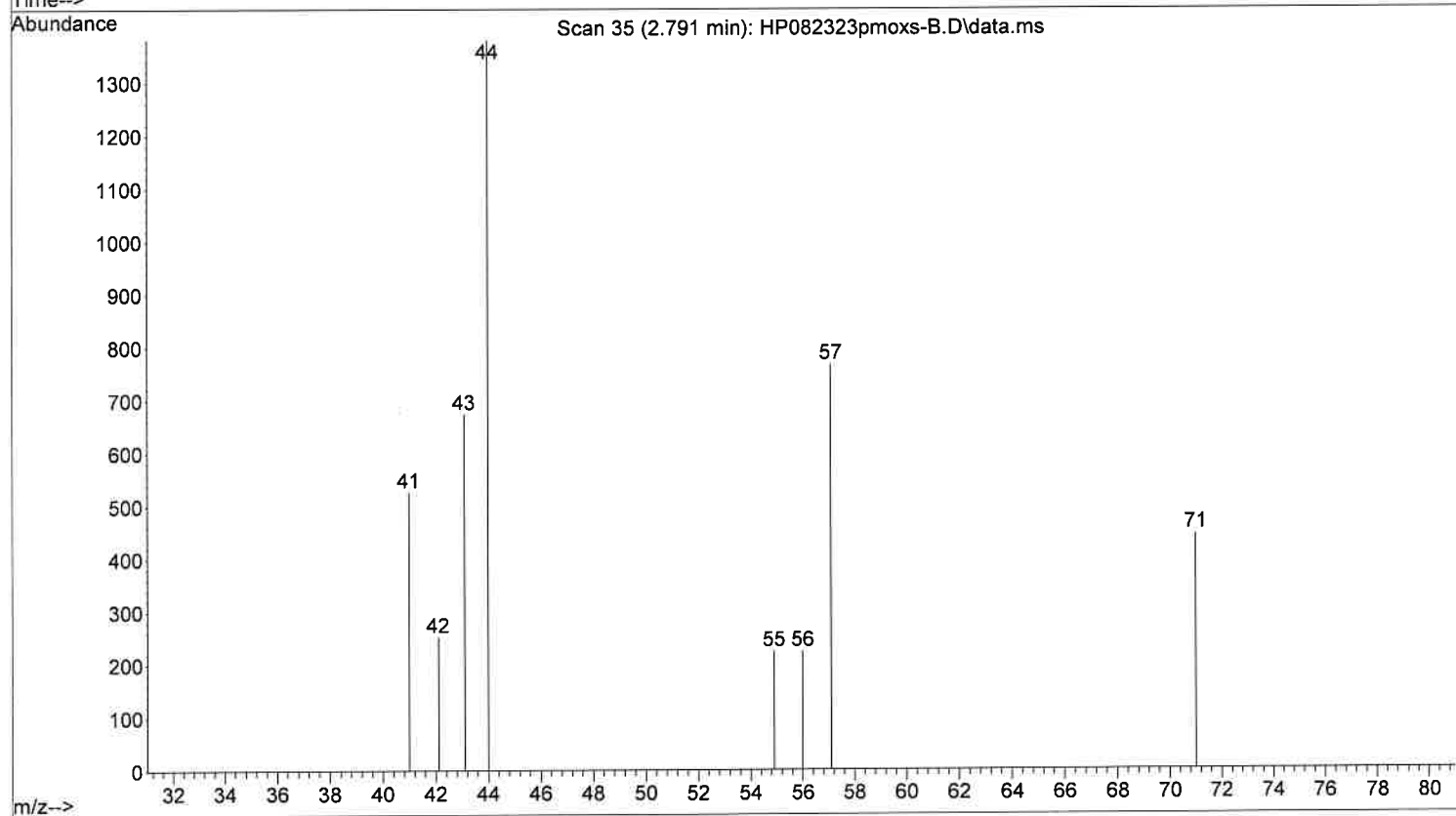
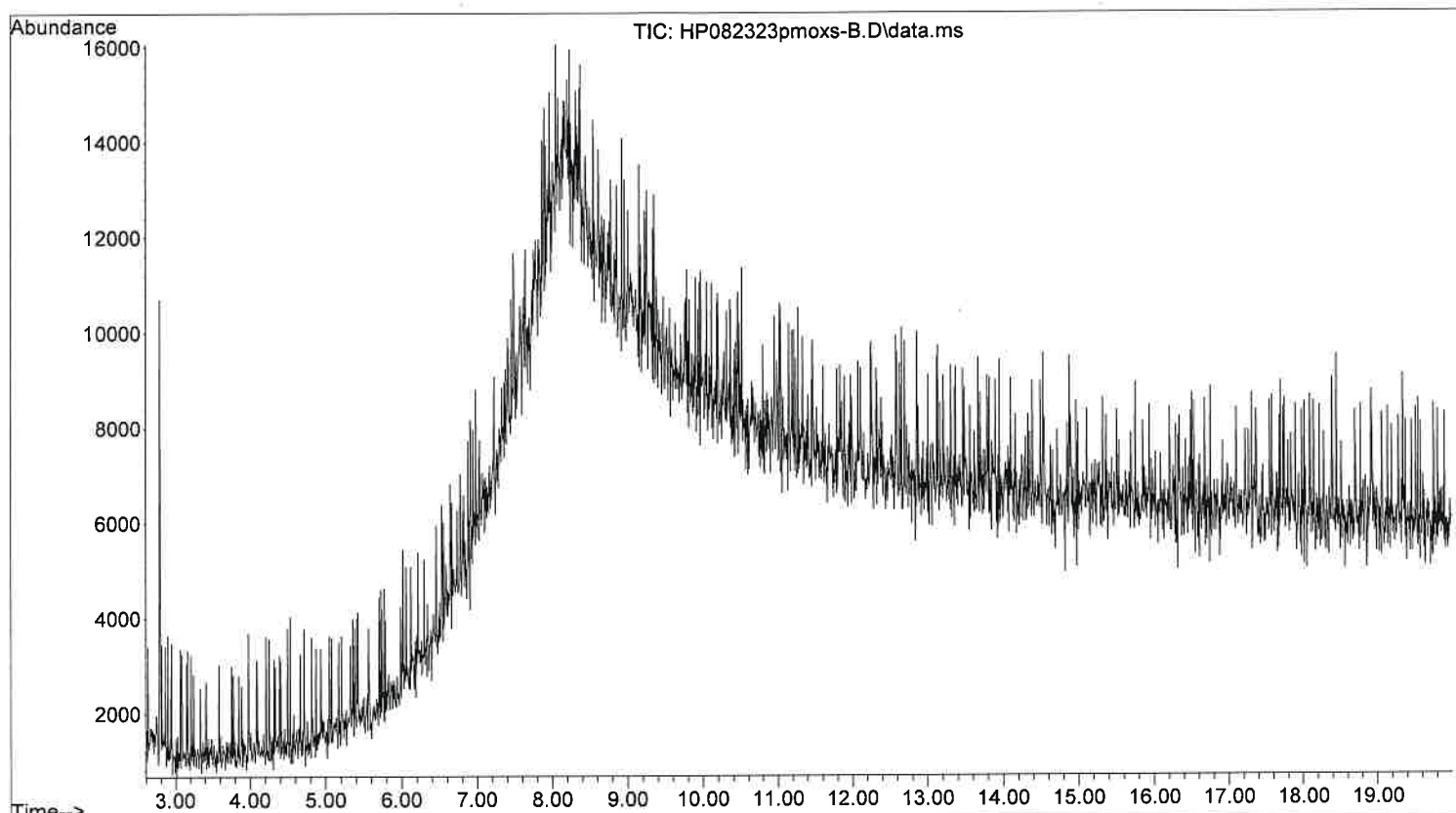
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod **STERIOD.M**
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



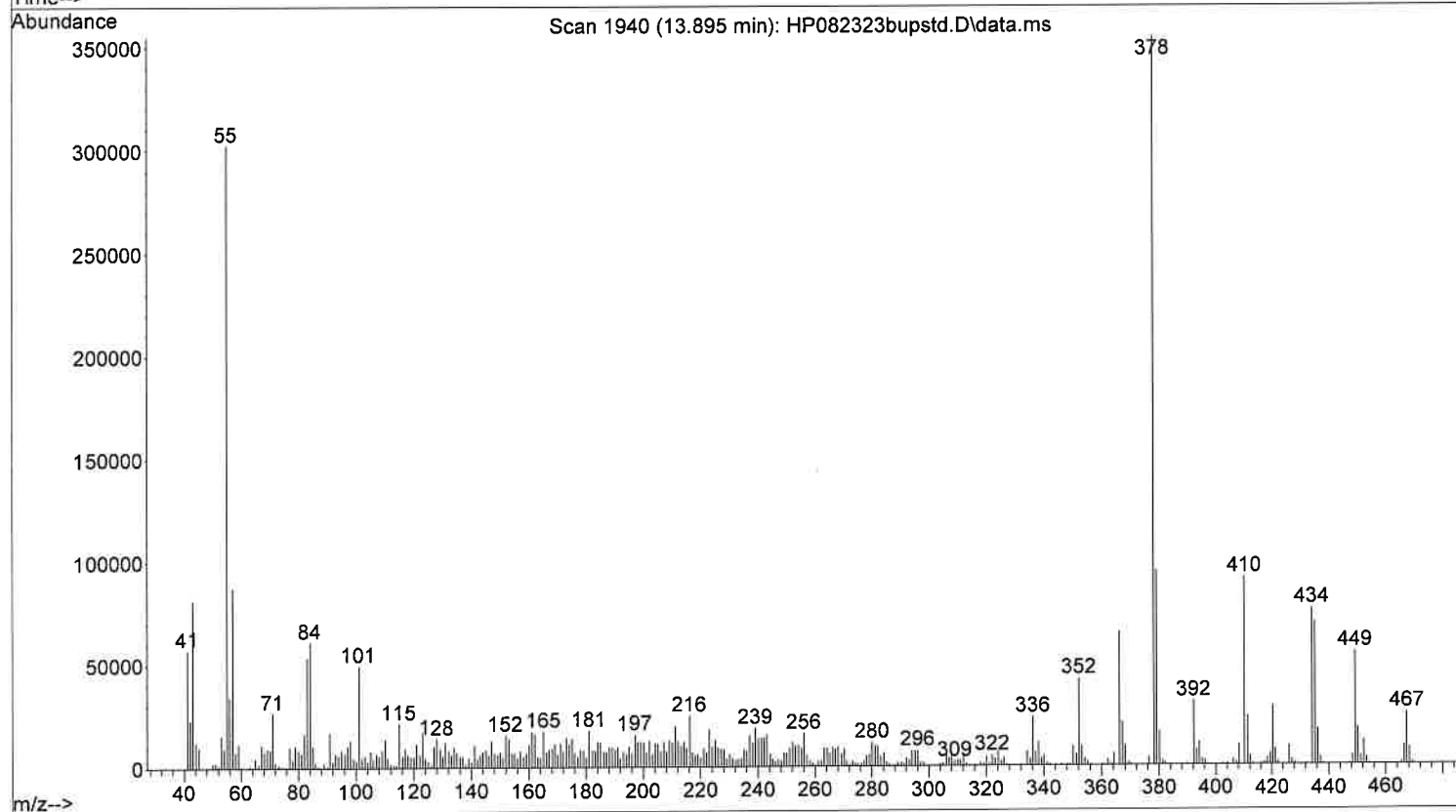
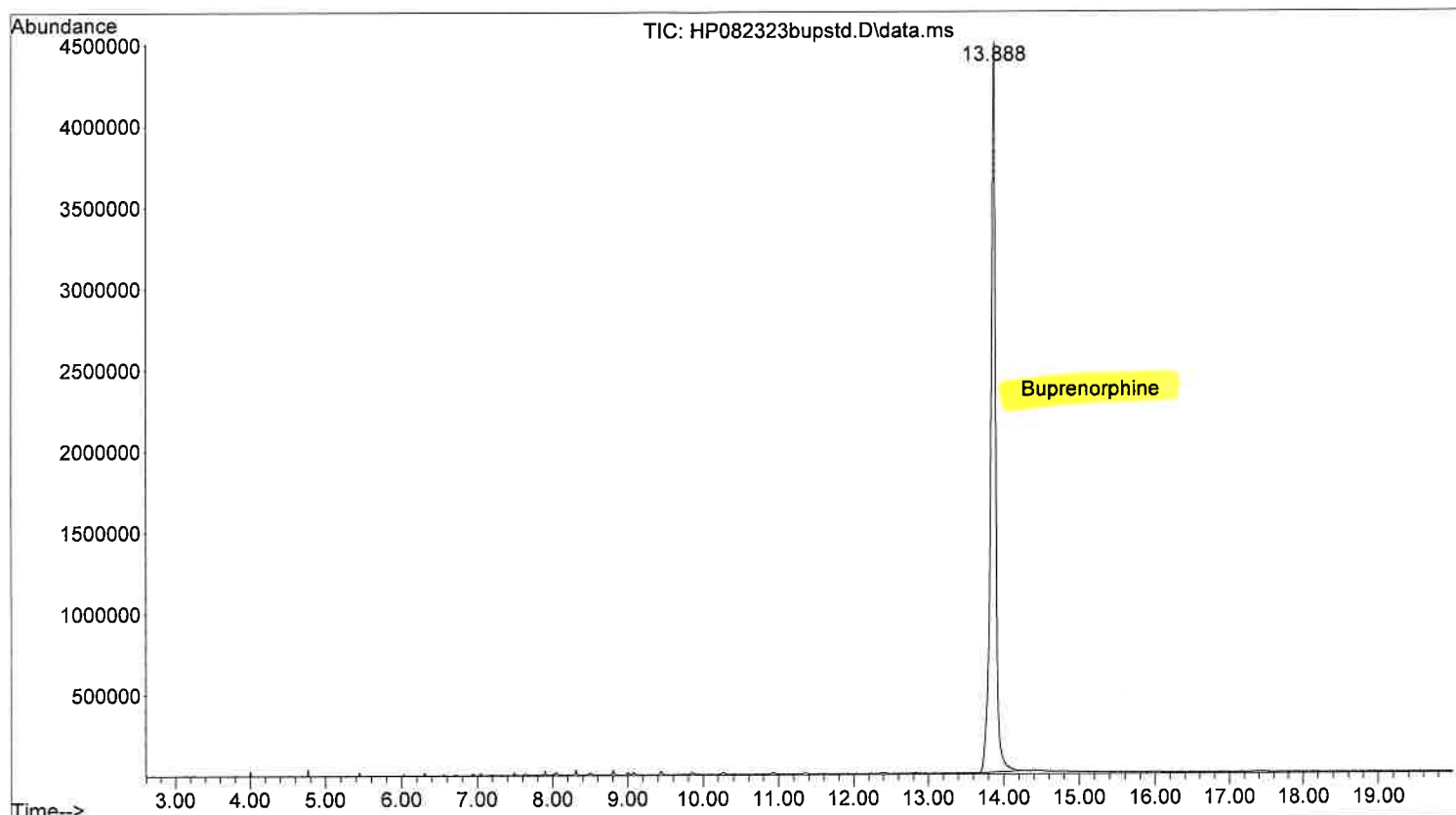
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs.D
Operator :
Acquired : 23 Aug 2023 13:24 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



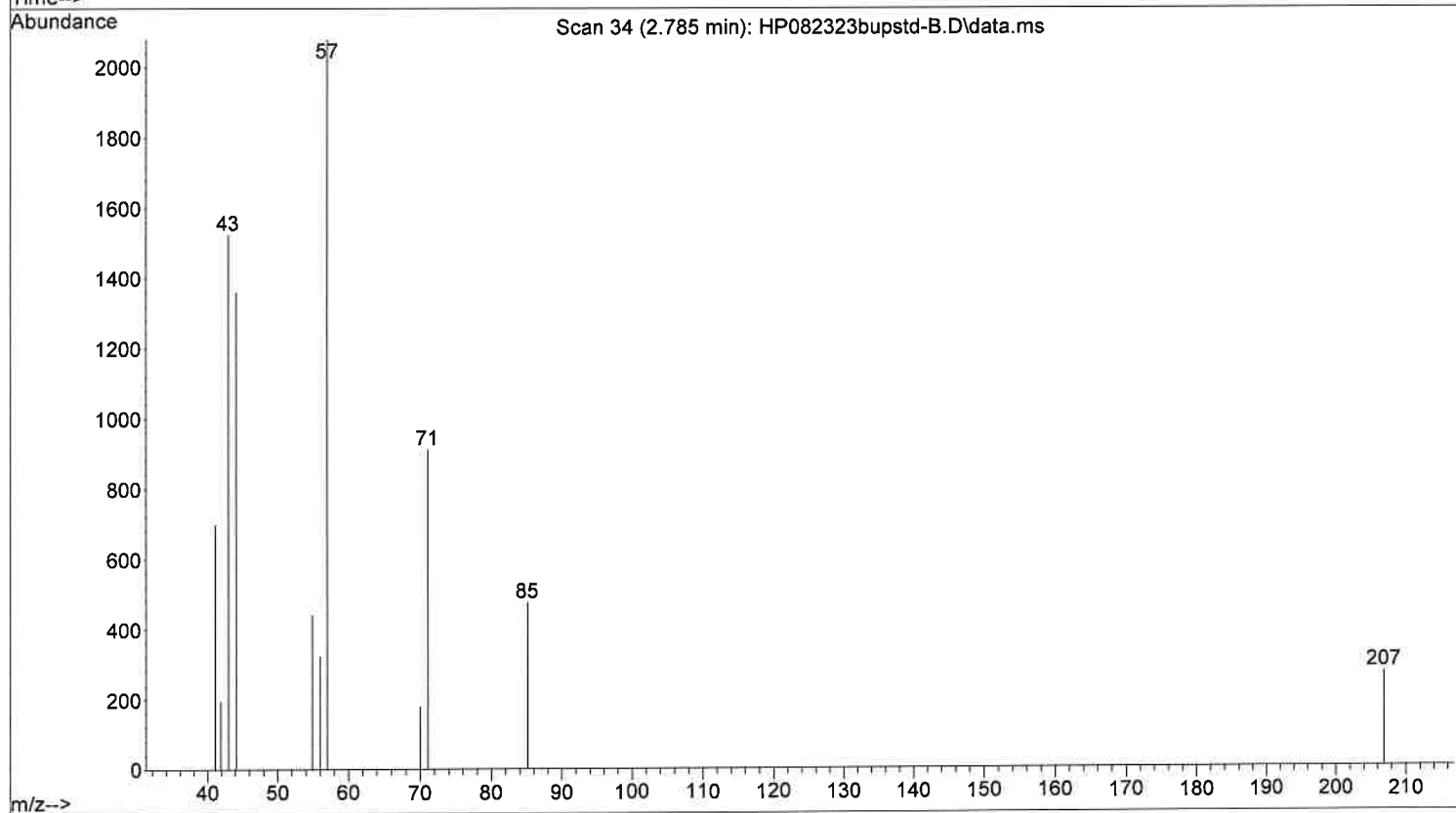
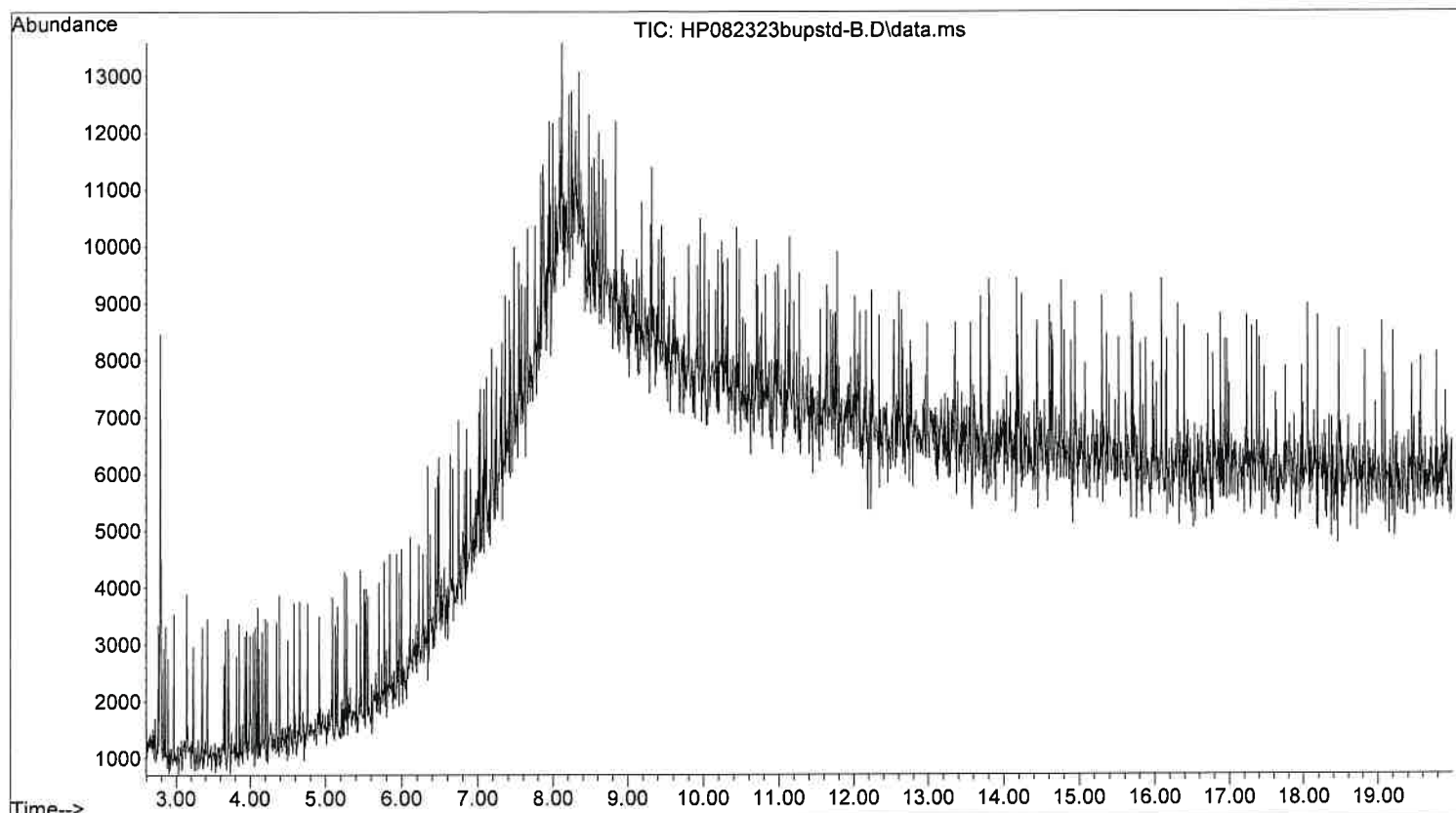
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323pmoxs-B.D
Operator :
Acquired : 23 Aug 2023 13:00 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: Chloroform Blank for P-MOX Standard
Misc Info :
Vial Number: 1



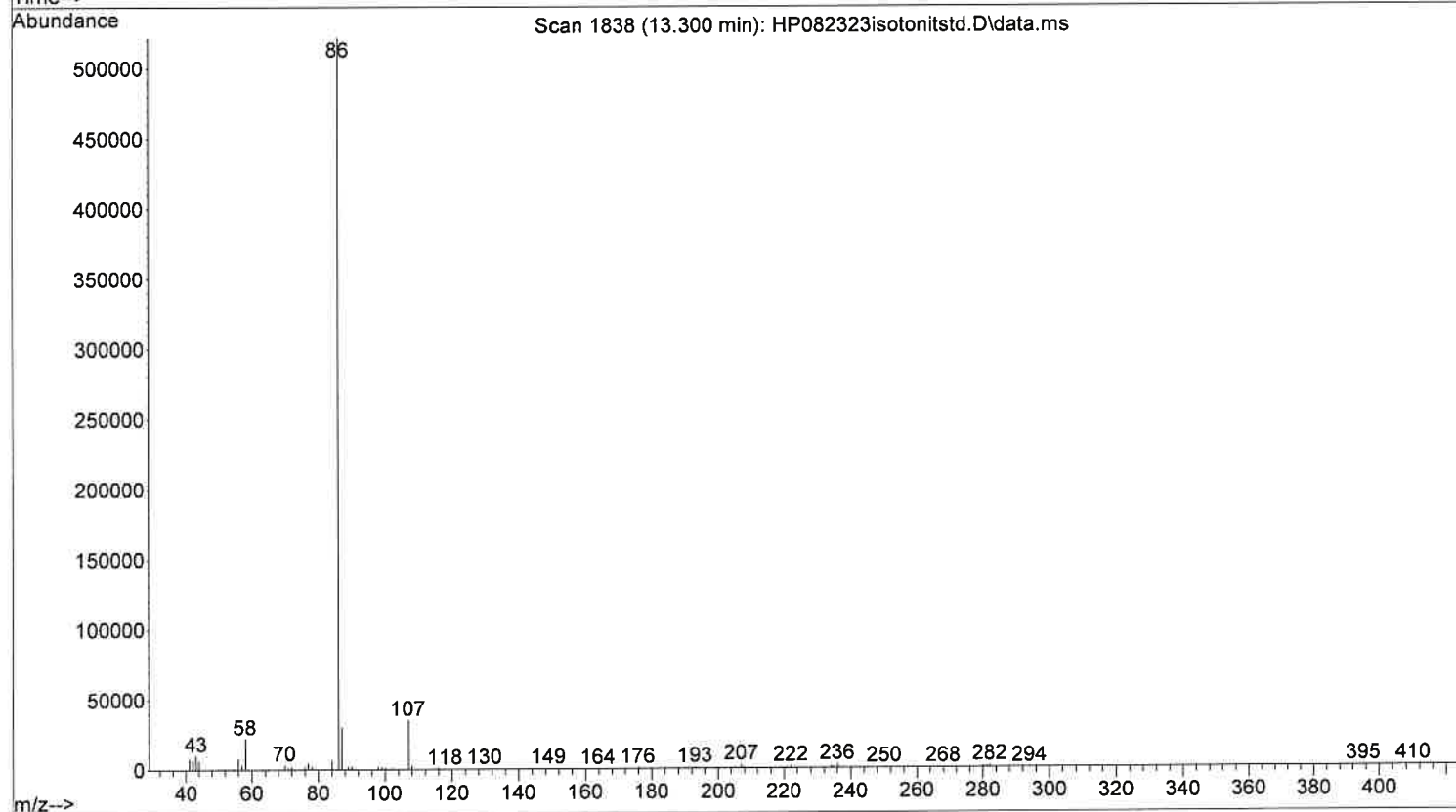
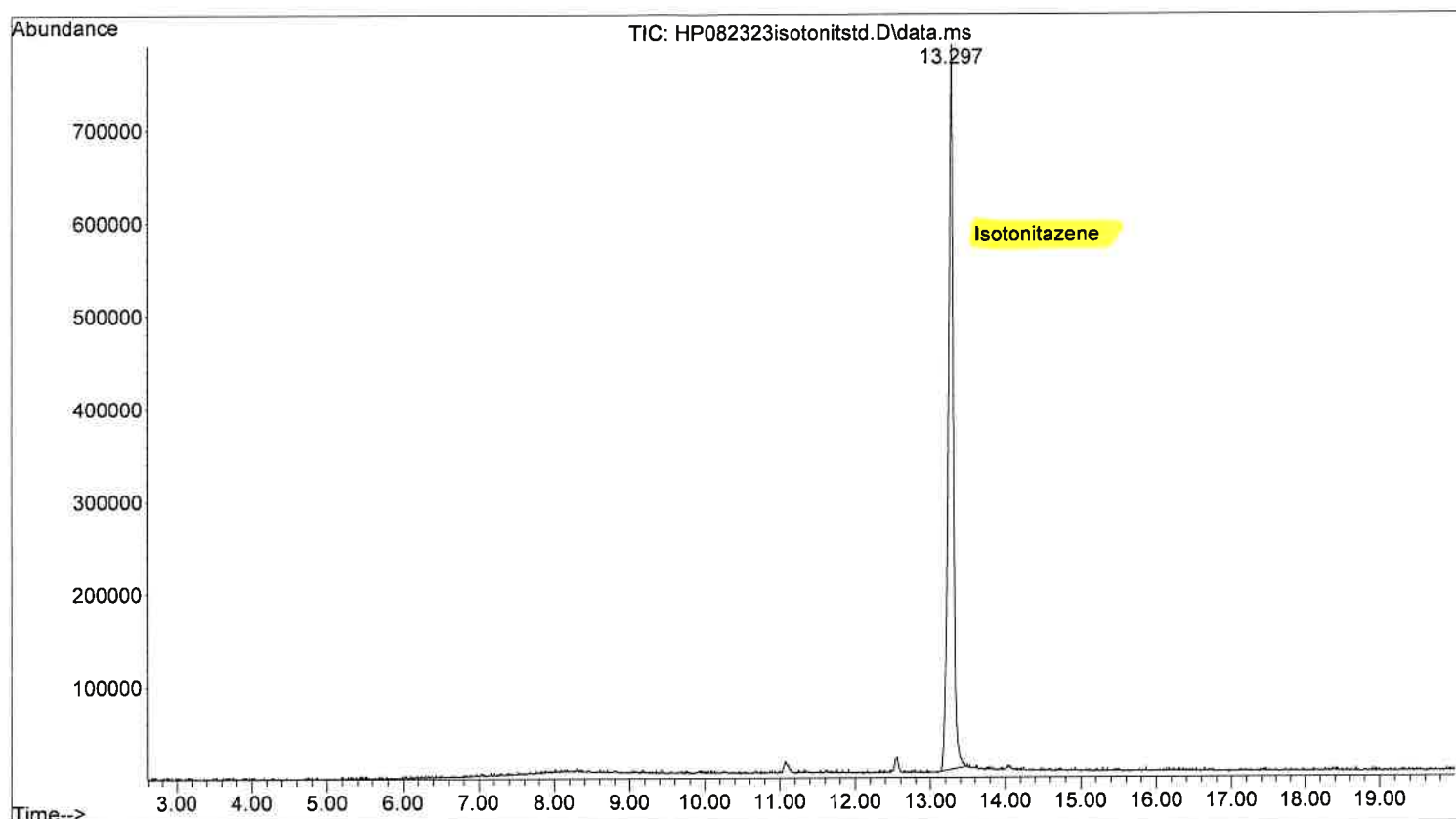
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323bupstd.D
Operator :
Acquired : 23 Aug 2023 11:13 using AcqMethod **STERIOD.M**
Instrument : Blossom
Sample Name: Buprenorphine Standard in Methanol
Misc Info :
Vial Number: 13



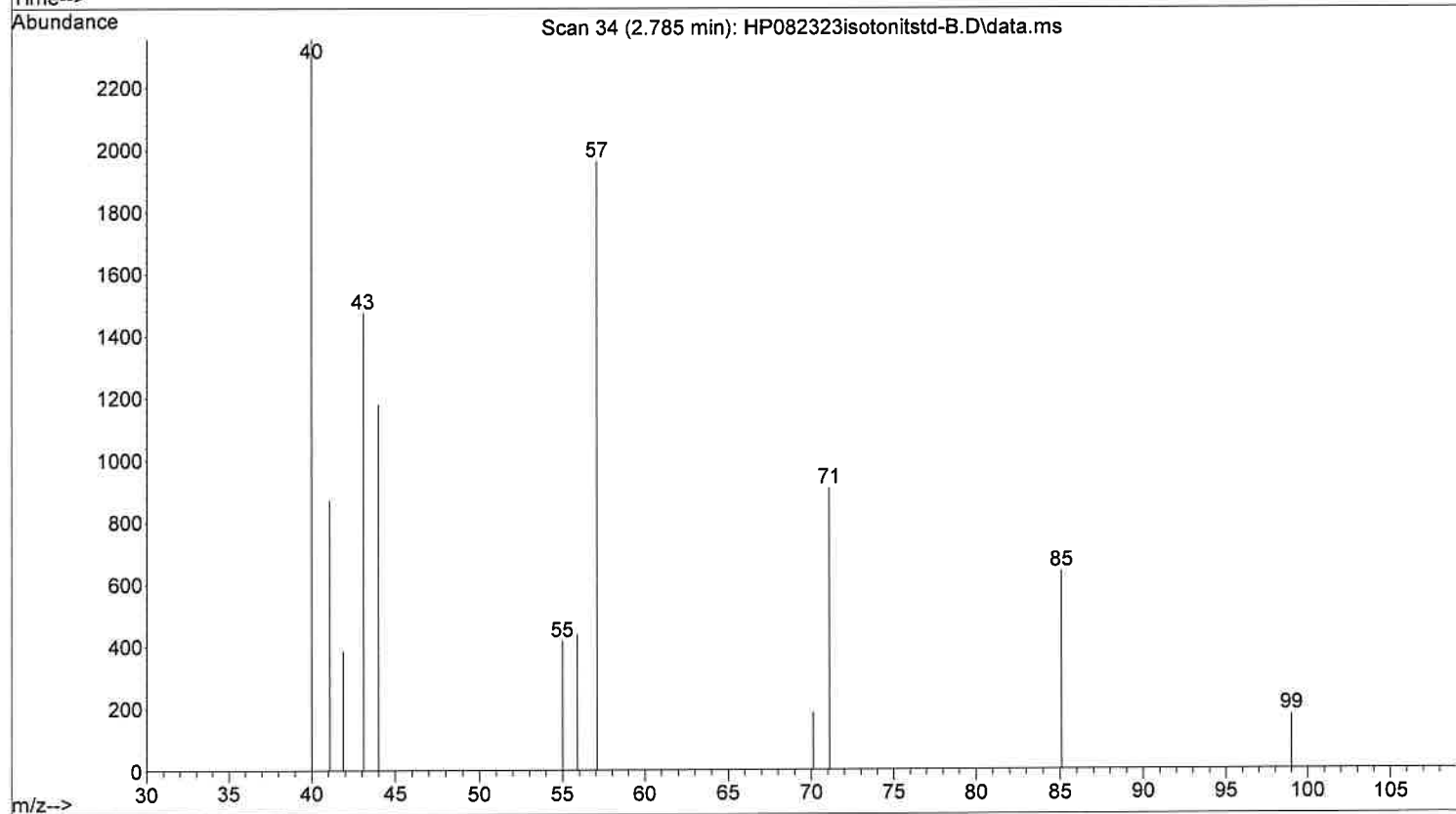
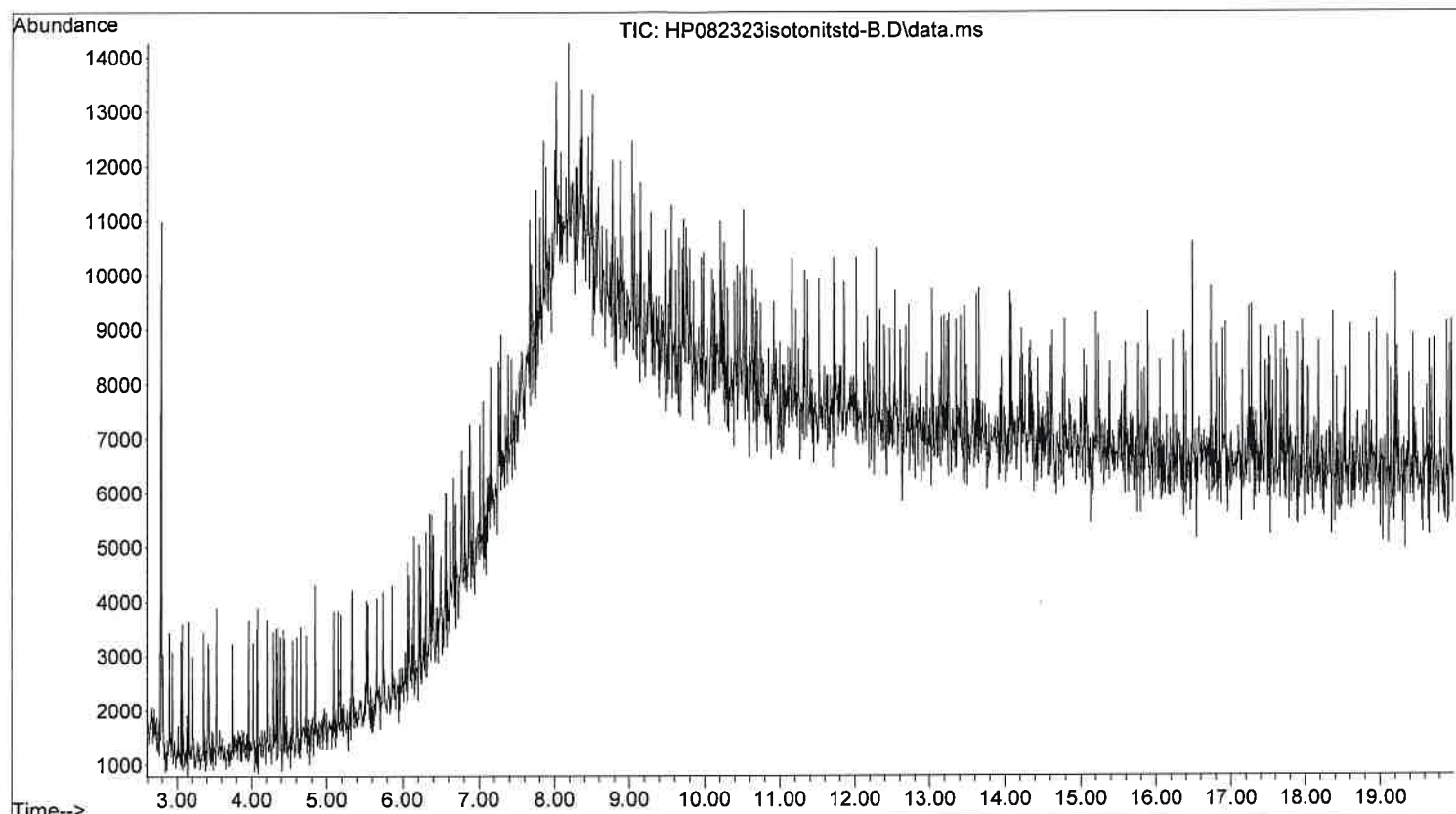
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323bupstd-B.D
Operator :
Acquired : 23 Aug 2023 10:50 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: Methanol Blank for Buprenorphine Standard
Misc Info :
Vial Number: 1



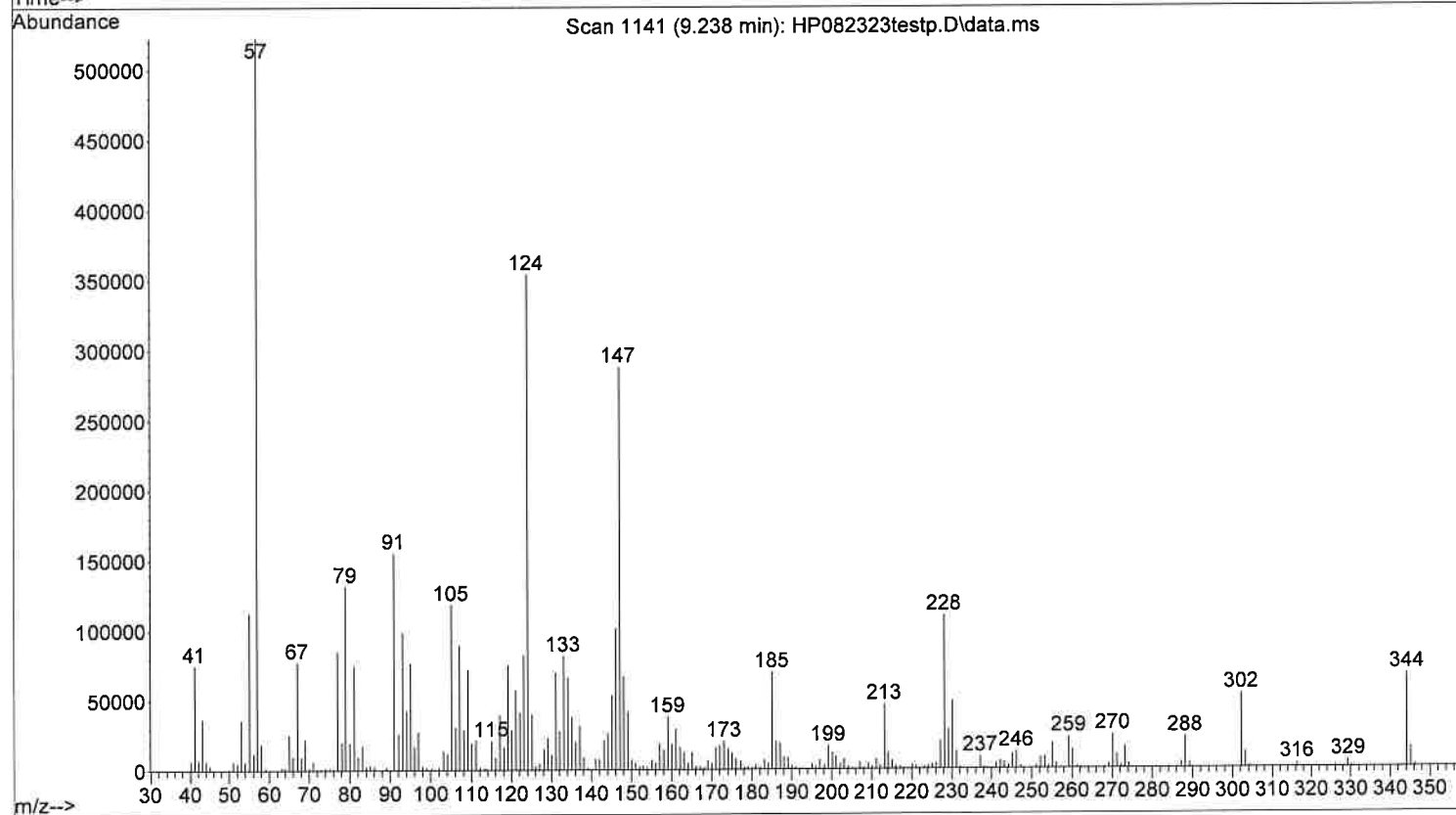
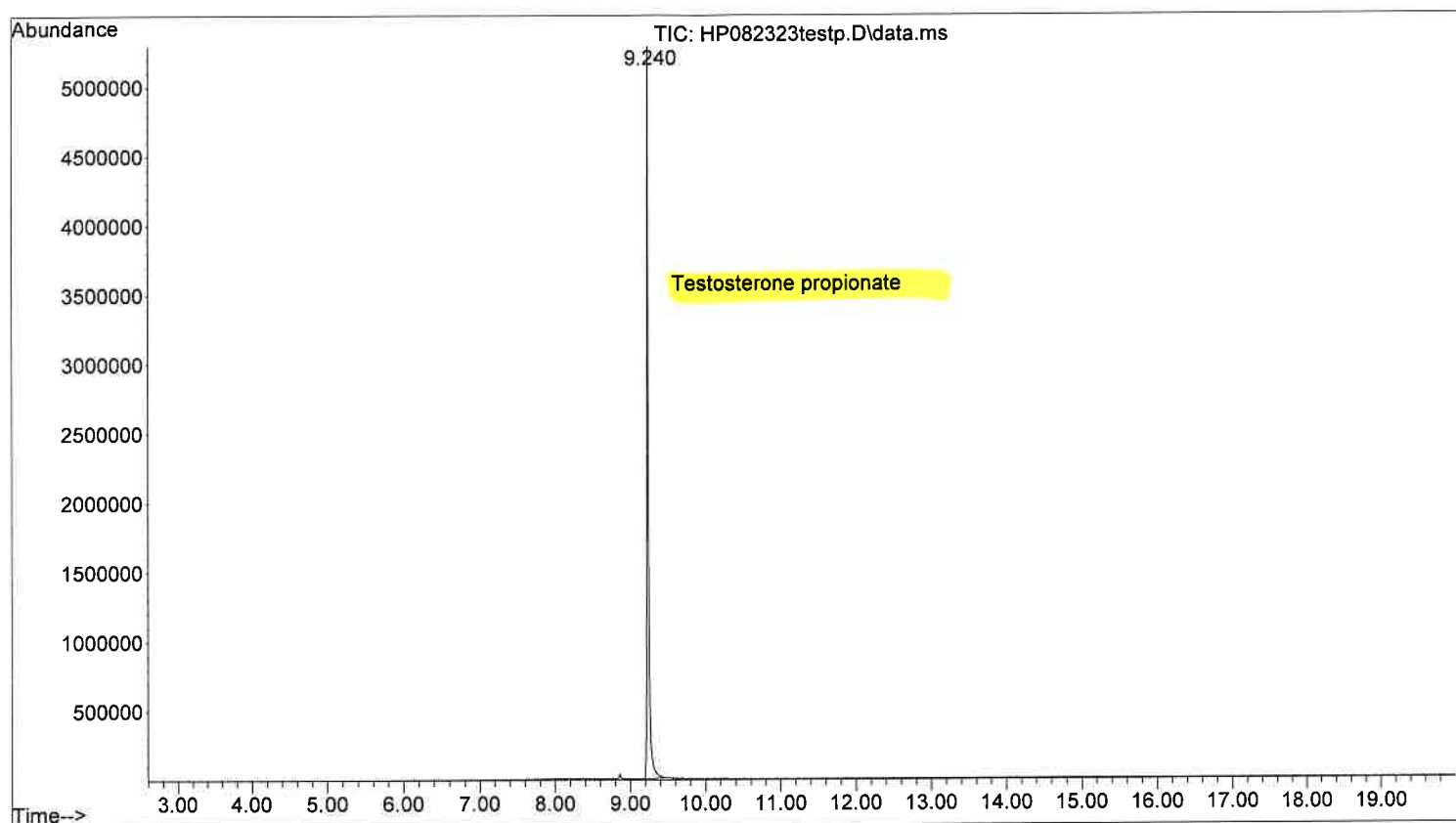
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323isotonitstd.D
Operator :
Acquired : 23 Aug 2023 12:19 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: Isotonitazene Standard in Methanol
Misc Info :
Vial Number: 14



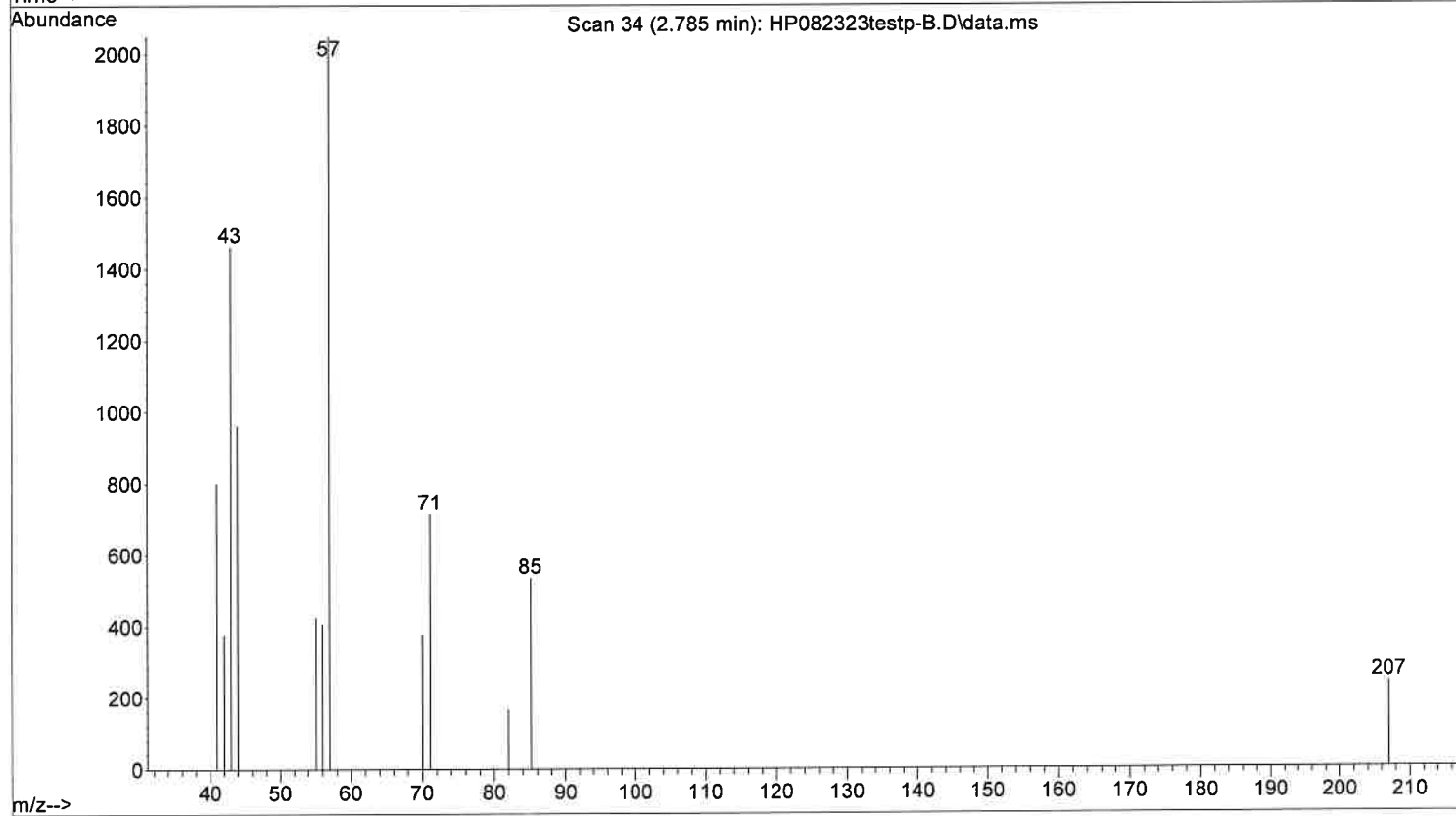
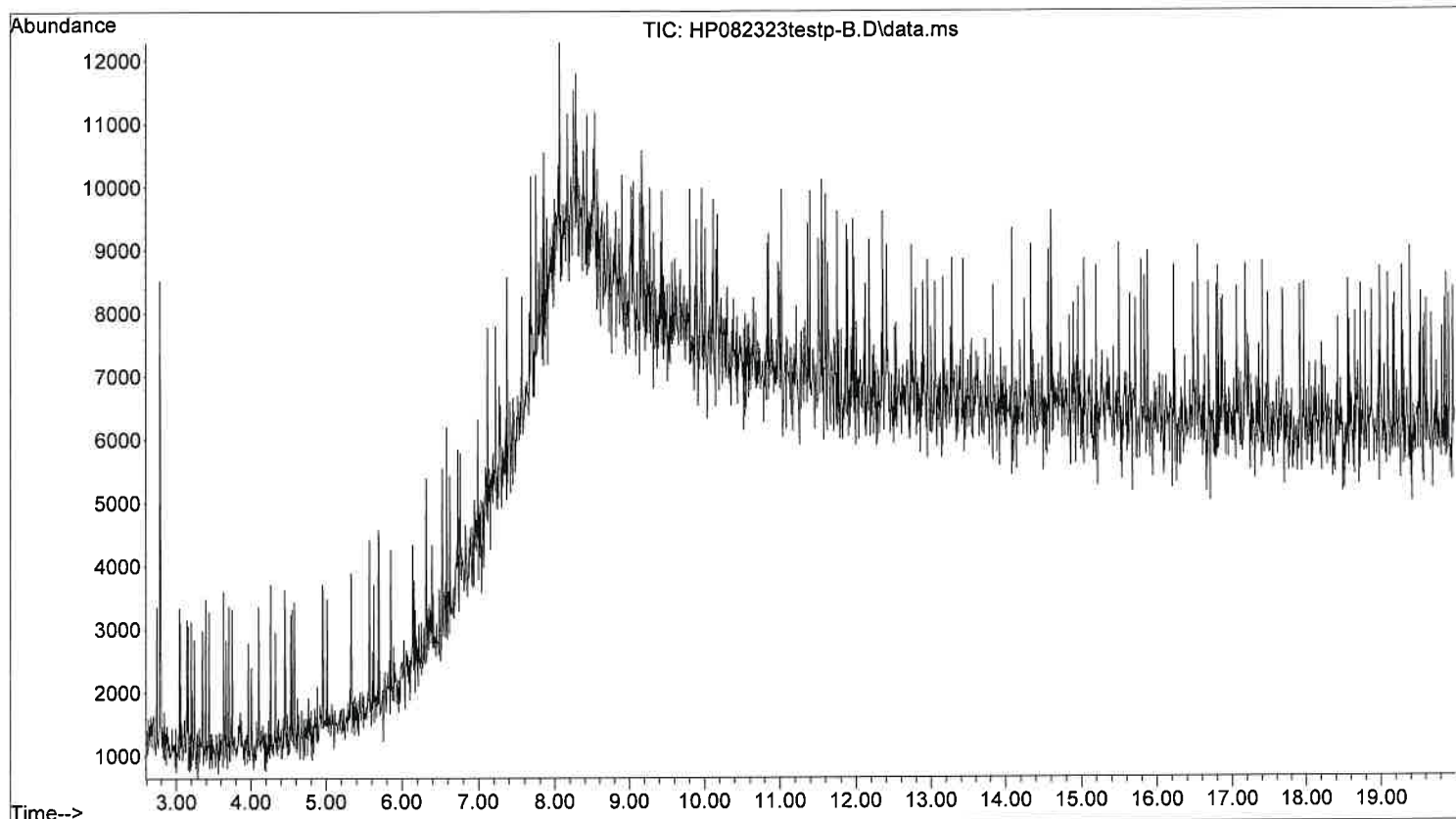
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323isotonitstd-B.D
Operator :
Acquired : 23 Aug 2023 11:55 using AcqMethod STERIOD.M
Instrument : Blossom
Sample Name: Methanol Blank for Isotonitazene Standard
Misc Info :
Vial Number: 1



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323testp.D
Operator :
Acquired : 23 Aug 2023 10:08 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: Testosterone Propionate Standard in Methanol
Misc Info :
Vial Number: 12



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323testp-B.D
Operator :
Acquired : 23 Aug 2023 09:45 using AcqMethod STEROID.M
Instrument : Blossom
Sample Name: Methanol Blank for Testosterone Propionate
Misc Info :
Vial Number: 1



METHOD CONTROL PARAMETERS

Method Information for: D:\MassHunter\GCMS\1\methods\XLDRUGS.M

Method Sections To Run:

- (X) Save Copy of Method With Data
- () Instrument Control Pre-Run Cmd/Macro =
- () Data Analysis Pre-Run Cmd/Macro =
- (X) Data Acquisition
- () Data Analysis
- () Instrument Control Post-Run Cmd/Macro =
- () Data Analysis Post-Run Cmd/Macro =

Method Comments:

XLDRUGS

END OF METHOD CONTROL PARAMETERS

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	D:\MassHunter\GCMS\1\methods\XLDRUGS.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.0
Acquisition Type	Scan
Stop time (min)	10.00
Solvent delay (min)	2.50
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
2.50	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter
------	---------------	-----------

Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A

Self-Cleaning Ion Source Parameters

Mode	No Cleaning
------	-------------

D:\MassHunter\GCMS\1\methods\XLDRUGS.M

Thu Aug 24 15:43:17 2023

Control Information

Sample Inlet : GC
Injection Source : GC ALS
Injection Location: Front
Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC
GC Summary
Run Time 28.058 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 70 °C
Hold Time 0 min
Post Run 80 °C
Program
#1 Rate 15 °C/min
#1 Value 150 °C
#1 Hold Time 3 min
#2 Rate 40 °C/min
#2 Value 299 °C
#2 Hold Time 16 min

Equilibration Time 0 min
Max Temperature 325 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Solvent A Washes (PreInj) 1
Solvent A Washes (PostInj) 1
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 1
Solvent B Washes (PostInj) 1
Solvent B Volume 8 µL
Sample Washes 0
Sample Wash Volume 8 µL
Sample Pumps 2
Dwell Time (PreInj) 0 min
Dwell Time (PostInj) 0 min
Solvent Wash Draw Speed 300 µL/min
Solvent Wash Dispense Speed 3000 µL/min
Sample Wash Draw Speed 300 µL/min
Sample Wash Dispense Speed 3000 µL/min
Injection Dispense Speed 6000 µL/min
Viscosity Delay 0 sec

Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Solvent A Washes (PreInj)	0
Solvent A Washes (PostInj)	0
Solvent A Volume	8 µL
Solvent B Washes (PreInj)	0
Solvent B Washes (PostInj)	0
Solvent B Volume	8 µL
Sample Washes	0
Sample Wash Volume	8 µL
Sample Pumps	6
Dwell Time (PreInj)	0 min
Dwell Time (PostInj)	0 min
Solvent Wash Draw Speed	300 µL/min
Solvent Wash Dispense Speed	6000 µL/min
Sample Wash Draw Speed	300 µL/min
Sample Wash Dispense Speed	6000 µL/min
Injection Dispense Speed	6000 µL/min
Viscosity Delay	0 sec
Sample Depth	Disabled
Injection Type	Standard
L1 Airgap	0.2 µL
Solvent Wash Mode	A, B
Sample Overlap Mode	Sample overlap is not enabled
ALS Errors	Pause for user interaction
Front SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	On 250 °C
Total Flow	On 9.1 psi
Septum Purge Flow	On 45.808 mL/min
Pre-Run Flow Test	On 3 mL/min
Gas Saver	Off
Split Ratio	On 20 mL/min after 2 min
Split Flow	40 :1
Liner	41.764 mL/min
	A Liner has not been selected.
Back SS Inlet He	
Helium Conservation Controlled Mode	Off
Heater	Split
Pressure	Off
Total Flow	Off
Septum Purge Flow	Off
Pre-Run Flow Test	Off
Liner	Off
	A Liner has not been selected.
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.0441 mL/min
Post Run	1 mL/min

Column Information	Agilent 128-0112
Description	DB-lms
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm (Calibrated)
Heater	Oven
Column lock	Unlocked
In	Front SS Inlet He
Out	MSD
(Initial)	70 °C
Pressure	9.1 psi
Flow	1.0441 mL/min
Average Velocity	59.449 cm/sec
Holdup Time	0.33642 min
Control Mode	Constant Flow
Column Outlet Pressure	0 psi
Back Detector FID	
Makeup	He
Heater	Off
H2 Flow	Off
Air Flow	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup and Fuel Flow
Flame	Off
Blank Evaluation Setpoints	
Perform Blank Evaluation Test	Off
Helium Conservation	
Helium Valve	Off
Nitrogen Valve	Off
Detector Evaluation	
Perform Detector Evaluation Test	Off
MSD Transfer Line	
Temperature	
Setpoint	On
(Initial)	280 °C
Signals	
Signal #1:	
Description	None
Signal #2:	
Description	None
Signal #3:	
Description	None
Signal #4:	
Description	None
Signal #5:	
Description	None
Signal #6:	
Description	None
Signal #7:	
Description	None

Signal #8:
Description

None

TUNE PARAMETERS for SN: US2312MA32

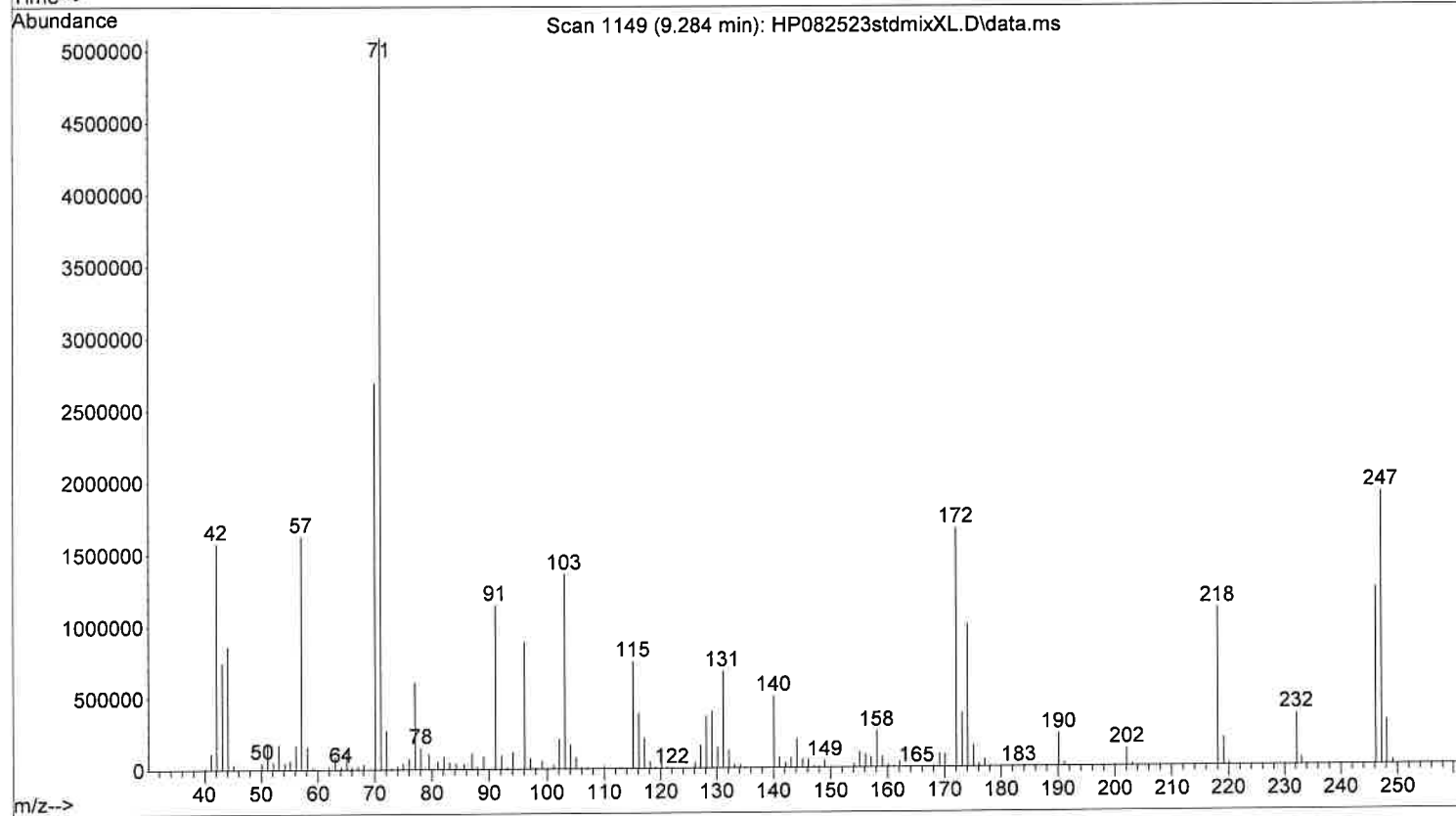
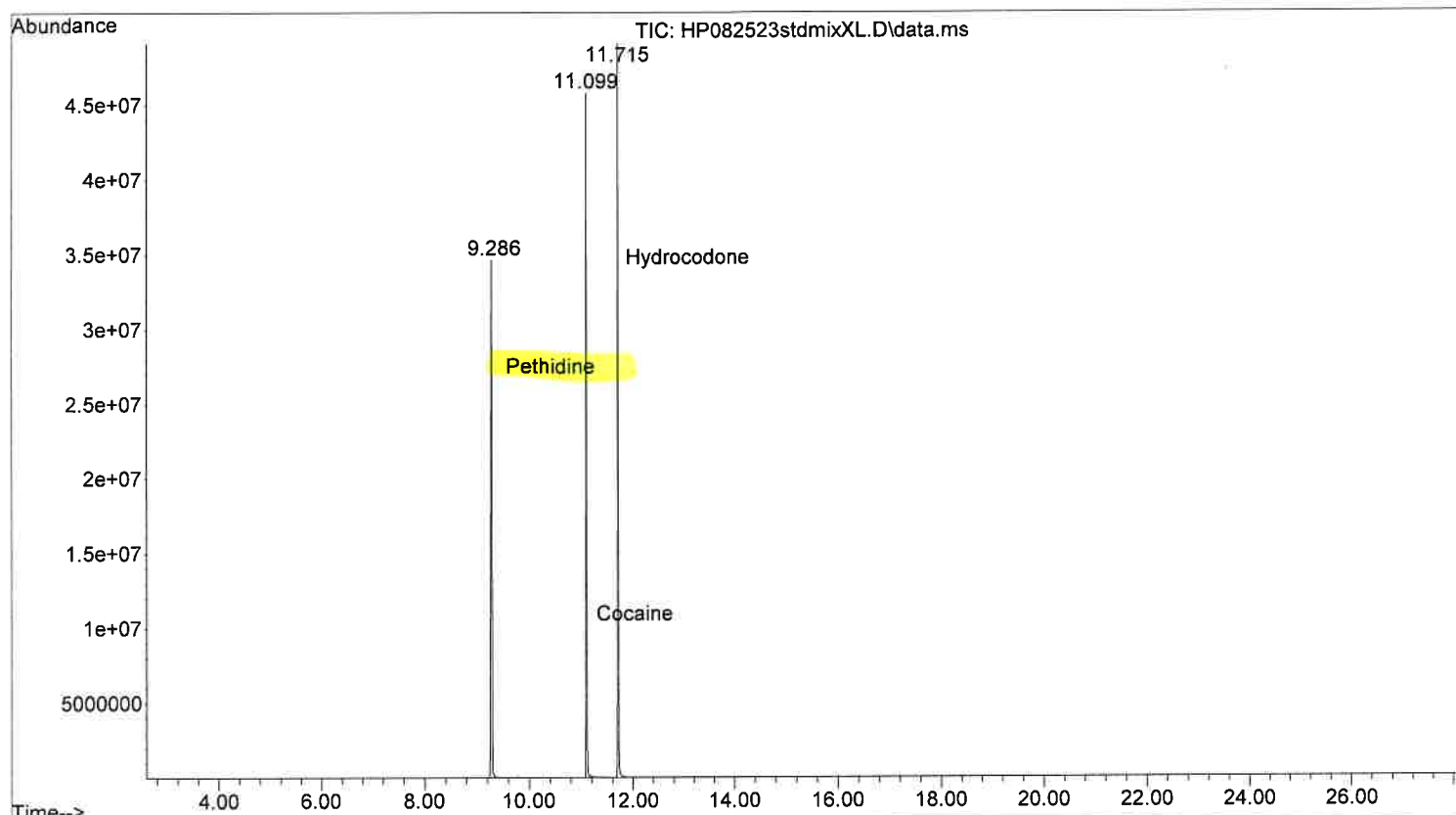
Trace Ion Detection is OFF.

34.593	:	EMISSION	
70.007	:	ENERGY	
34.899	:	REPELLER	
90.331	:	IONFOCUS	
12.582	:	ENTRANCE_LENS	
953.305	:	EMVOLTS	
		996.3	: Actual EMV
		1.00	: GAIN FACTOR
2669.000	:	AMUGAIN	
137.750	:	AMUOFFSET	
1.000	:	FILAMENT	
1.000	:	DCPOLARITY	
13.729	:	ENTLENSOFFSET	
0.000	:	Ion_Body	
0.000	:	EXTLENS	
198.000	:	MASSGAIN	
-24.000	:	MASSOFFSET	

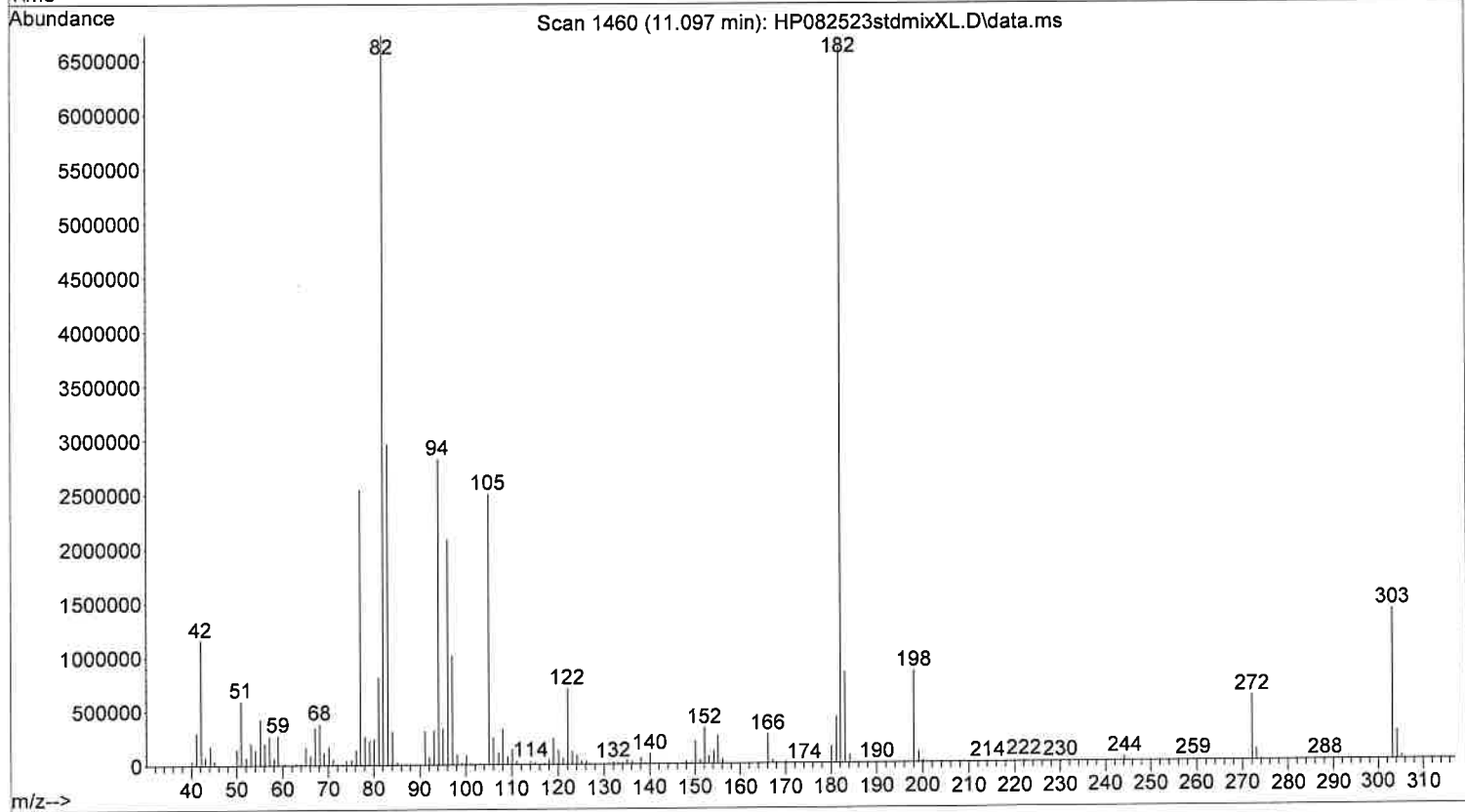
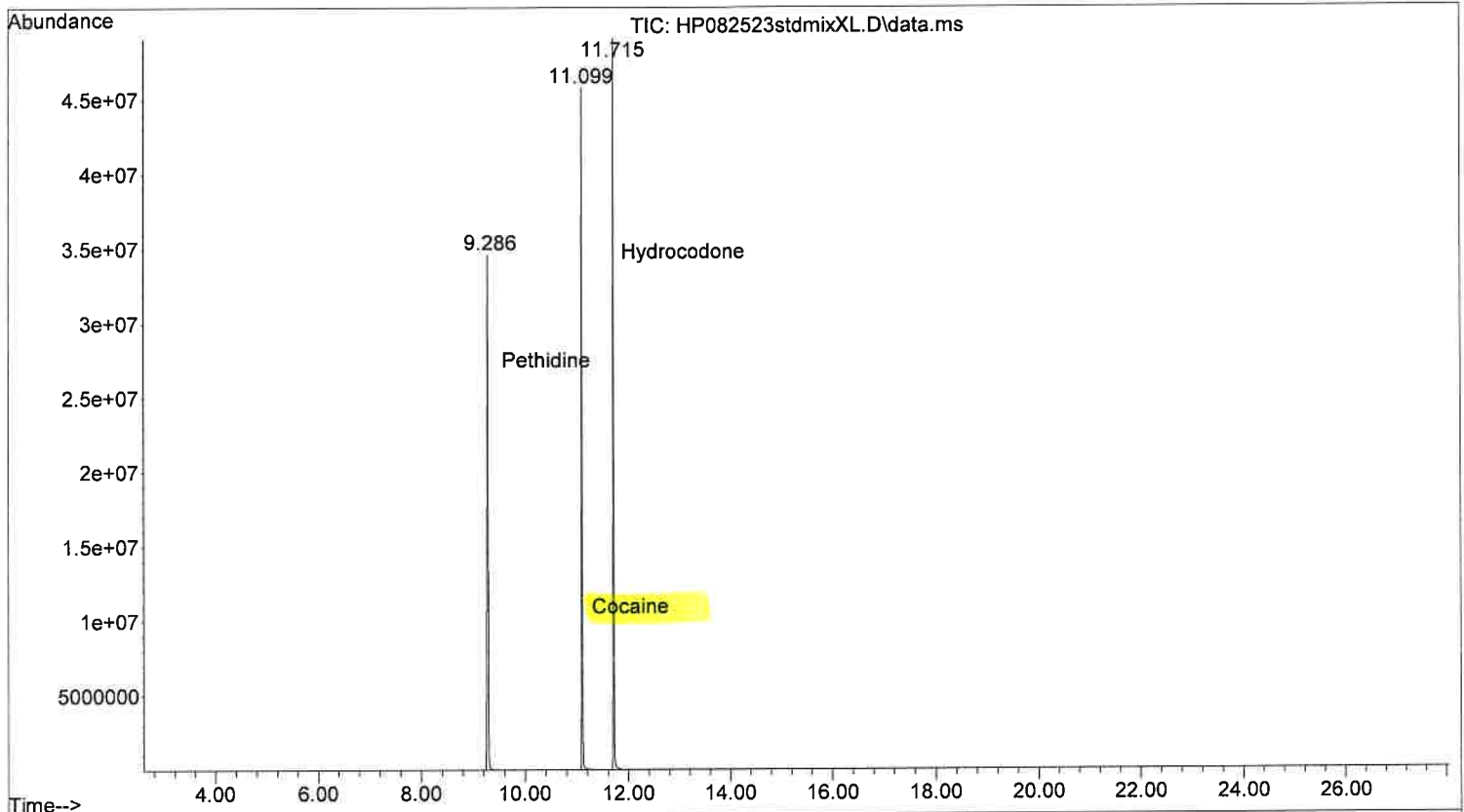
END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

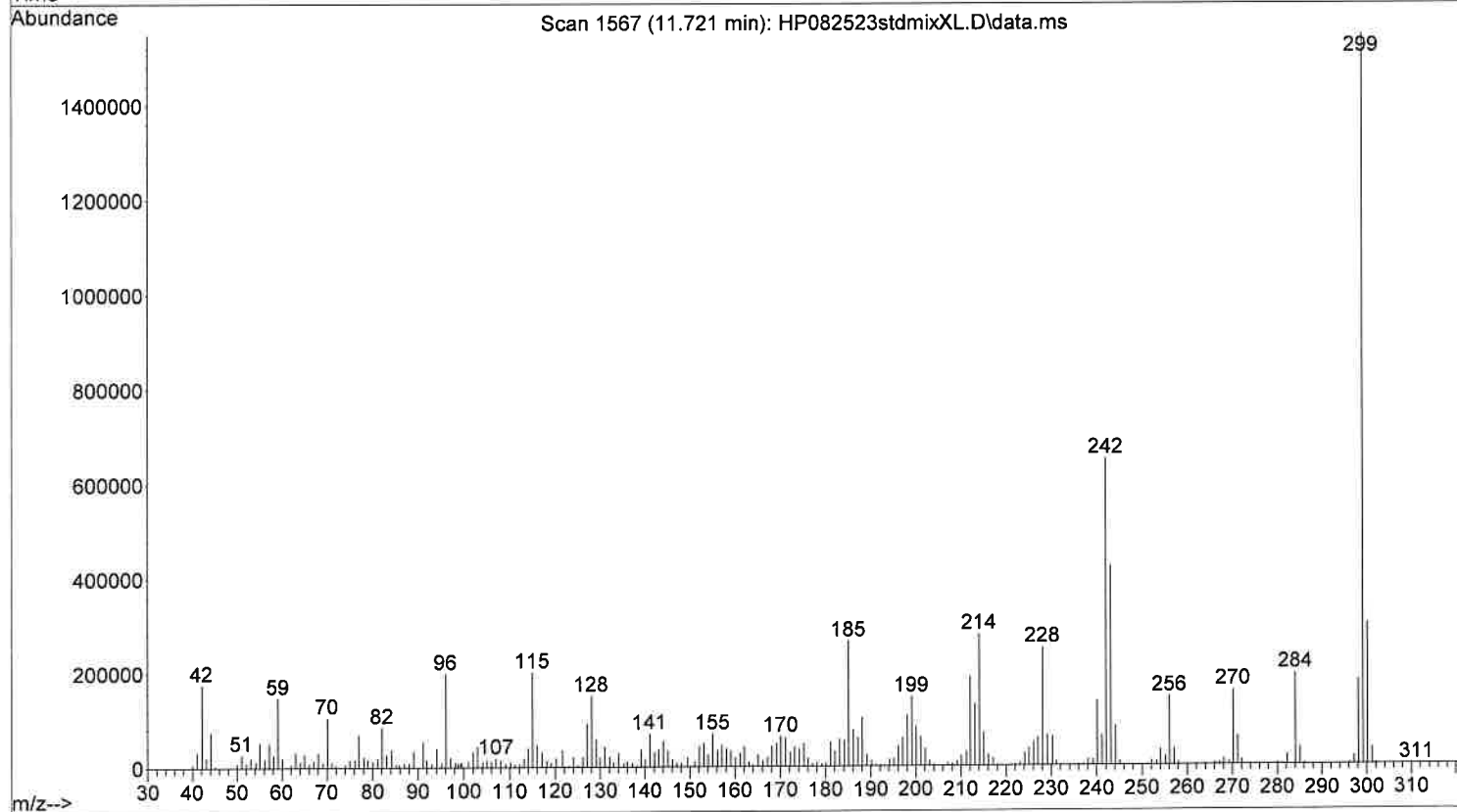
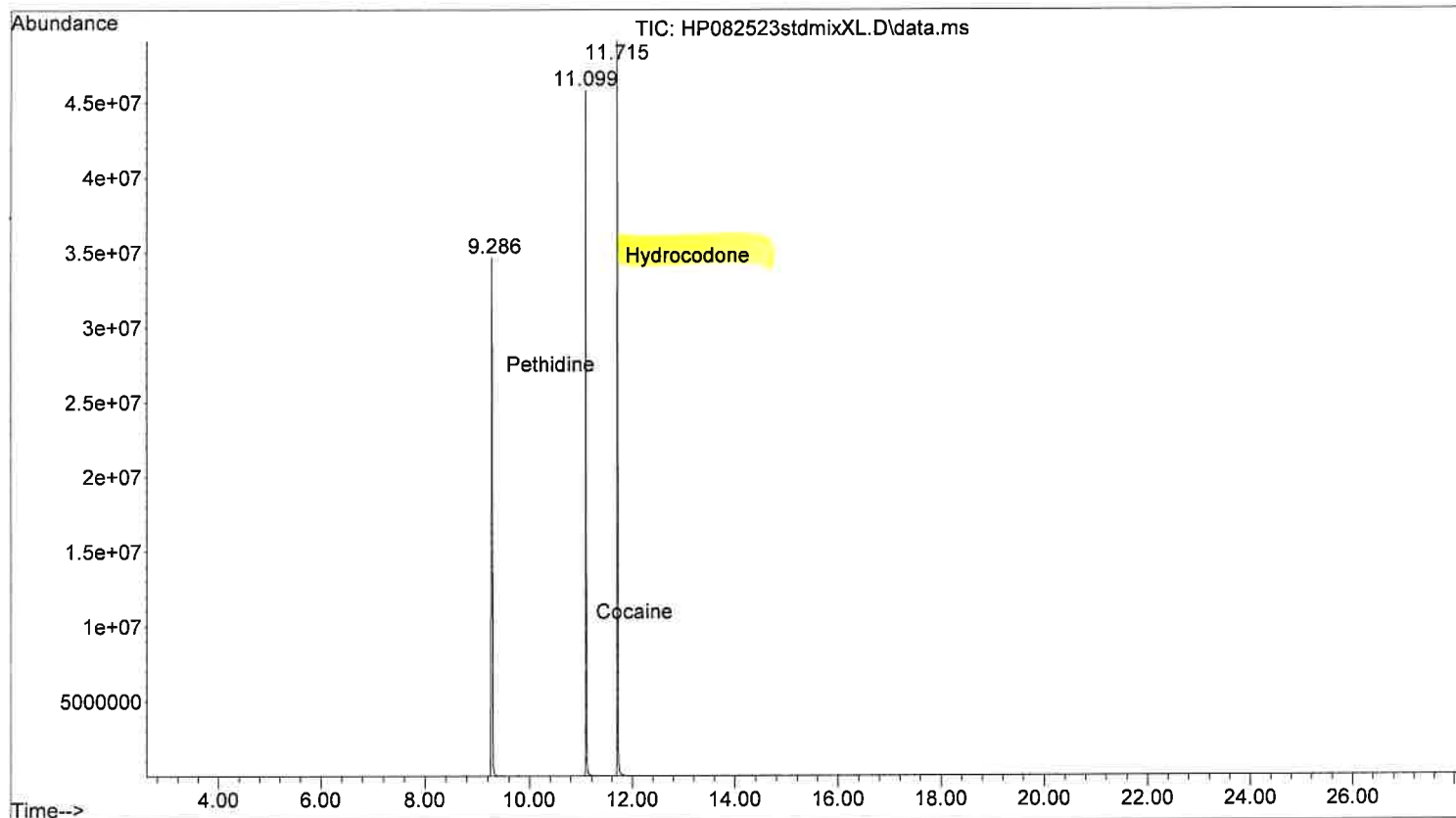
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 523stdmixXL.D
Operator :
Acquired : 25 Aug 2023 13:46 using AcqMethod **XLDRUGS.M**
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



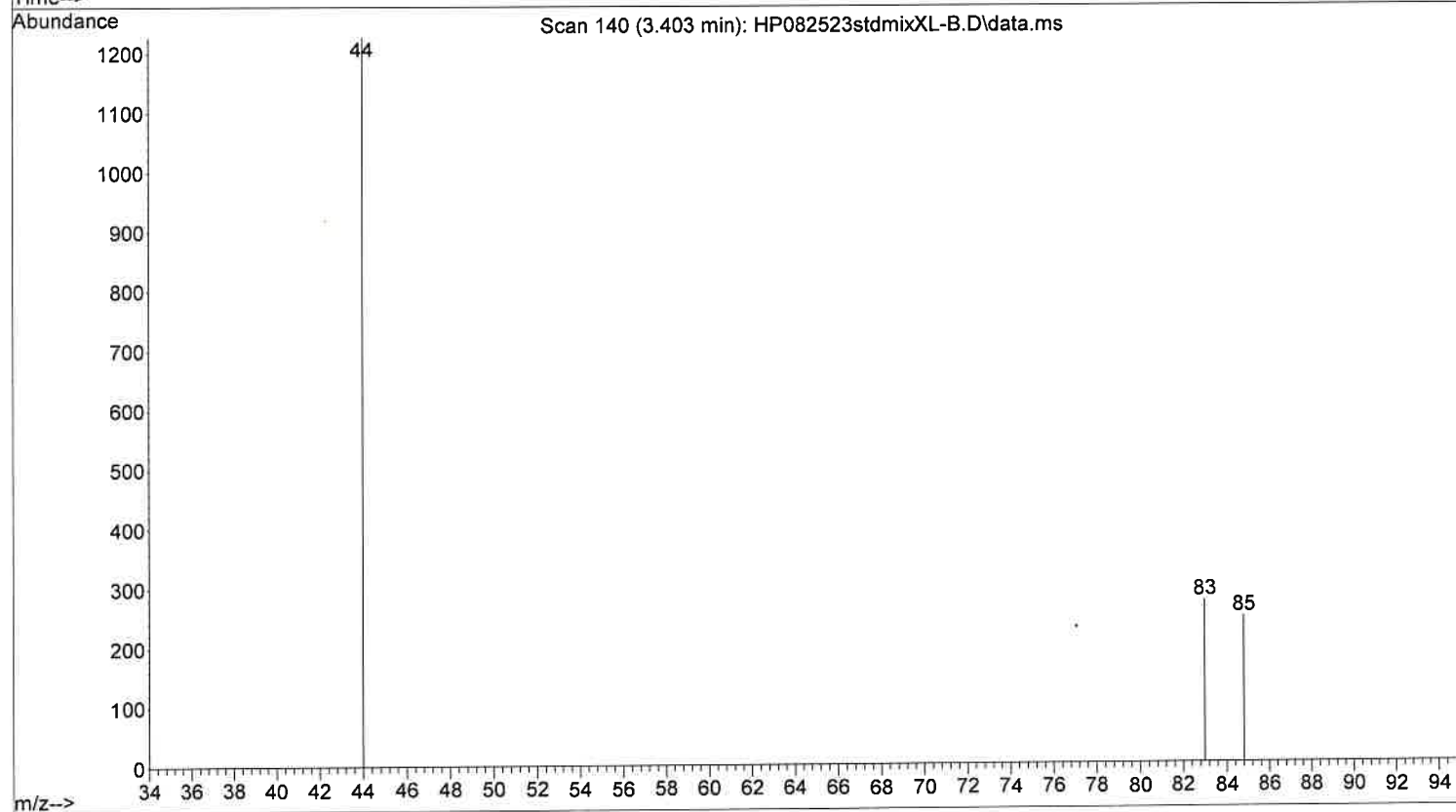
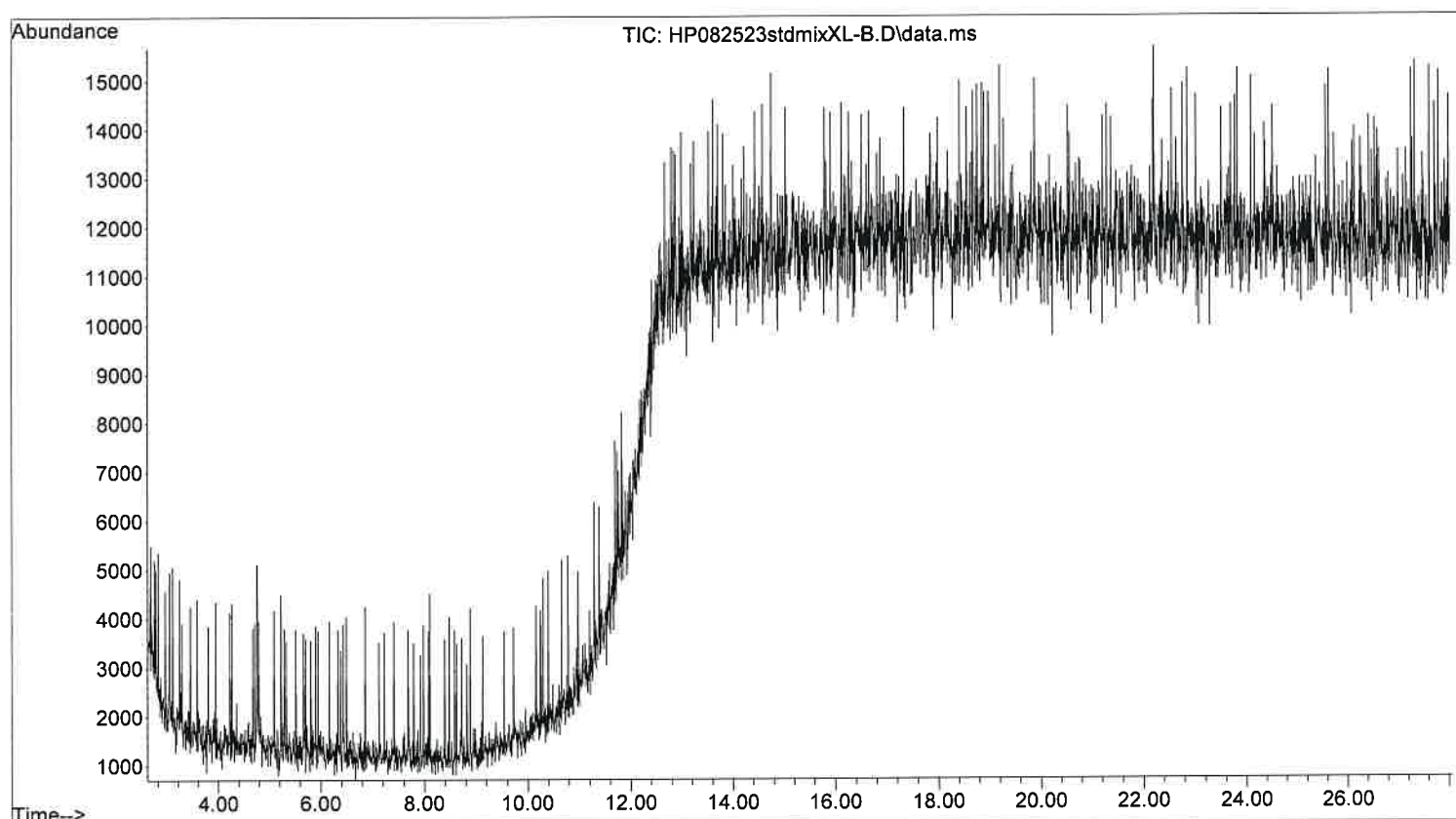
File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 523stdmixXL.D
Operator :
Acquired : 25 Aug 2023 13:46 using AcqMethod XLDRUGS.M
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



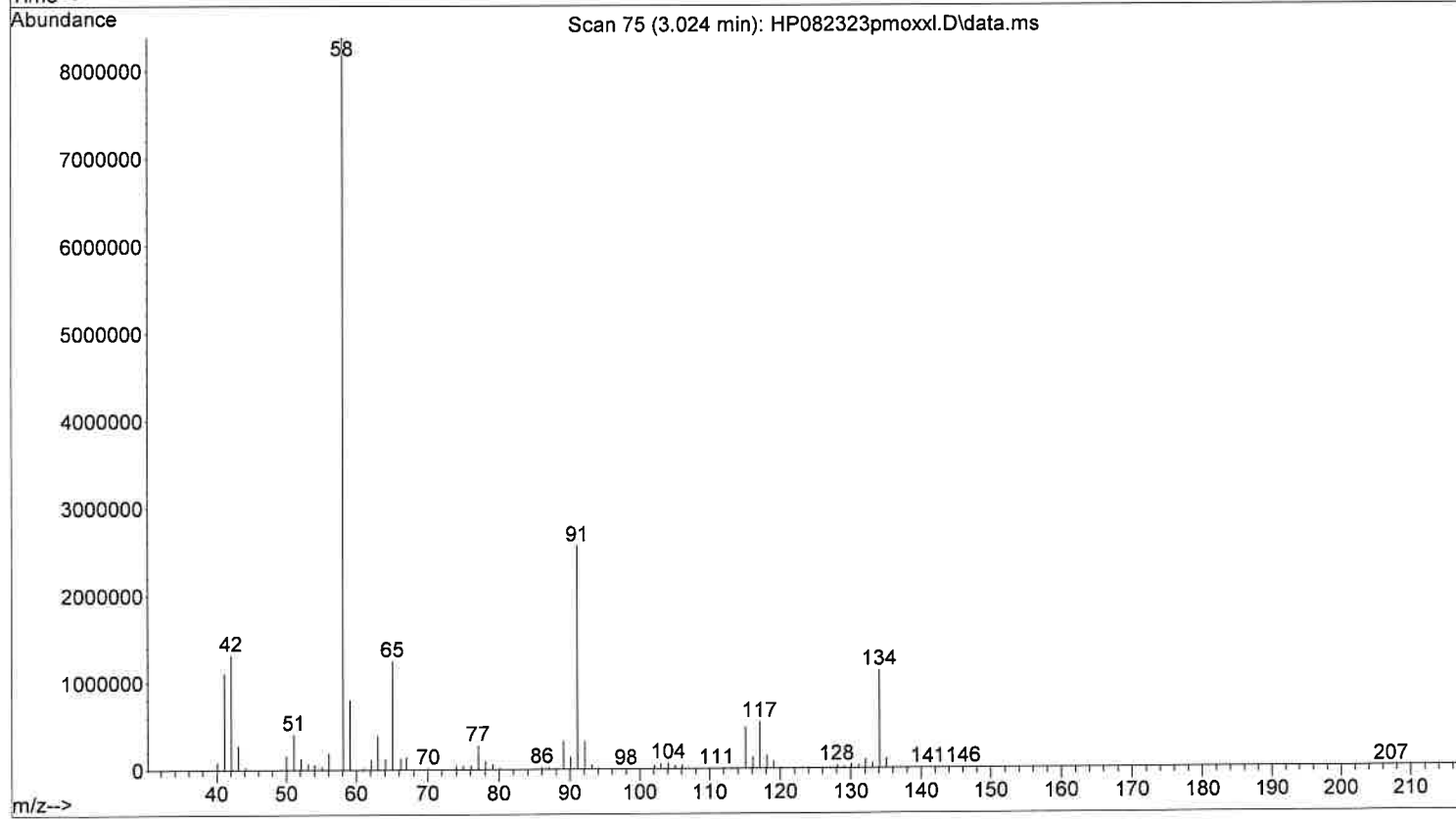
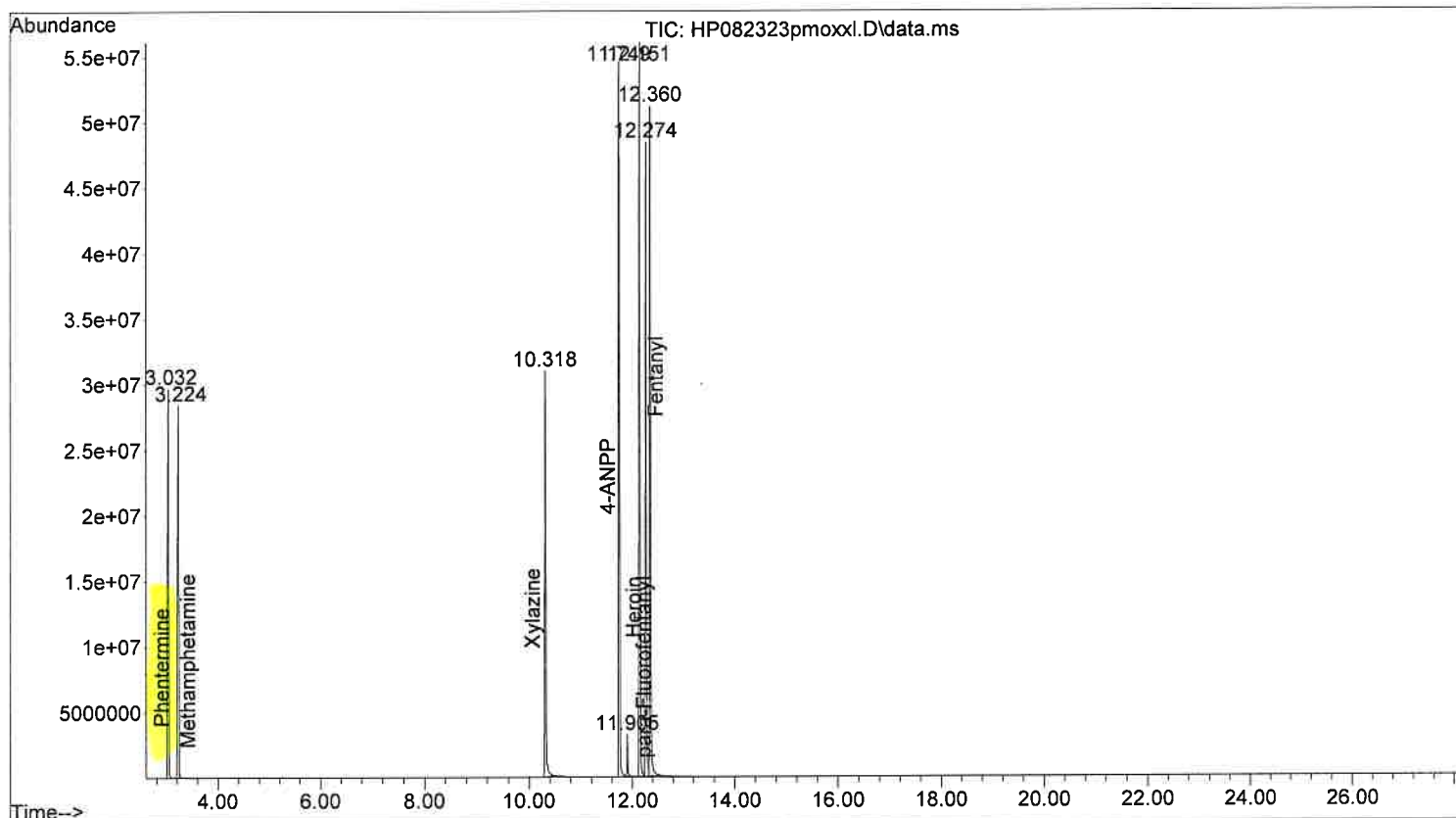
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... 523stdmixXL.D
Operator :
Acquired : 25 Aug 2023 13:46 using AcqMethod XDRUGS.M
Instrument : Blossom
Sample Name: Standard Mix in Chloroform
Misc Info :
Vial Number: 11



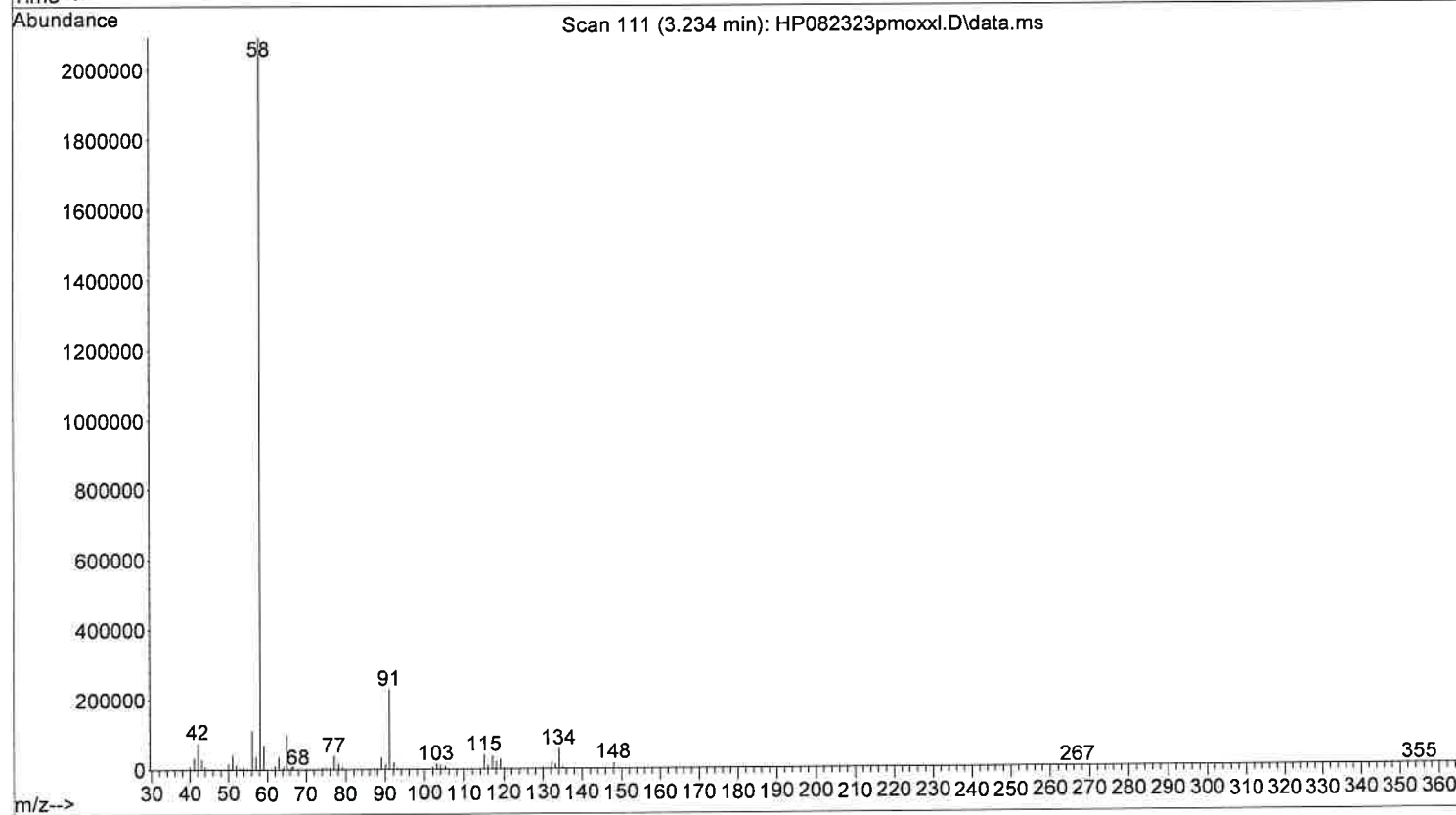
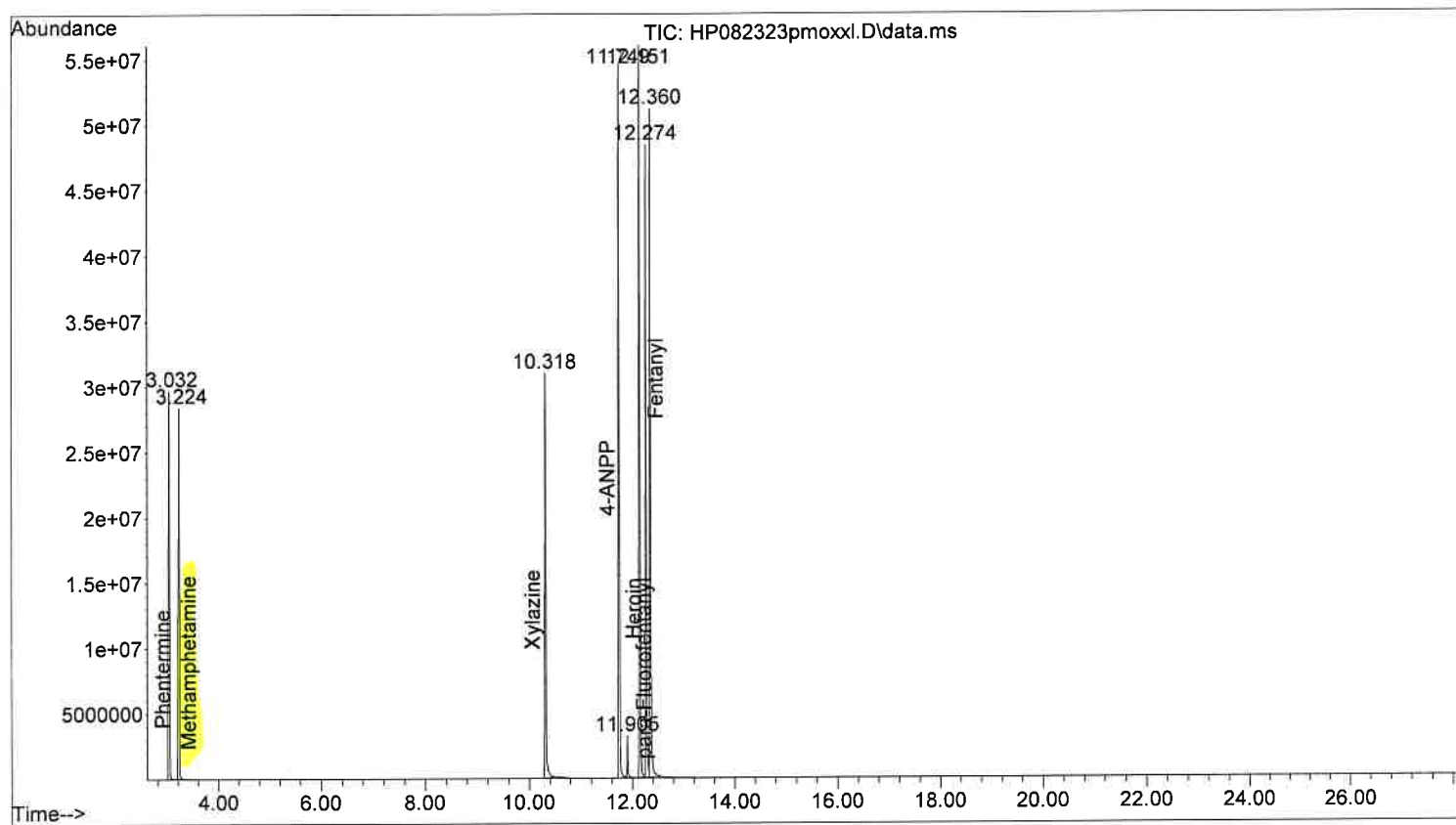
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Acquired : 25 Aug 2023 13:15 using AcqMethod XDRUGS.M
Instrument : Blossom
Sample Name: Chloroform Blank for Standard Mix
Misc Info :
Vial Number: 2



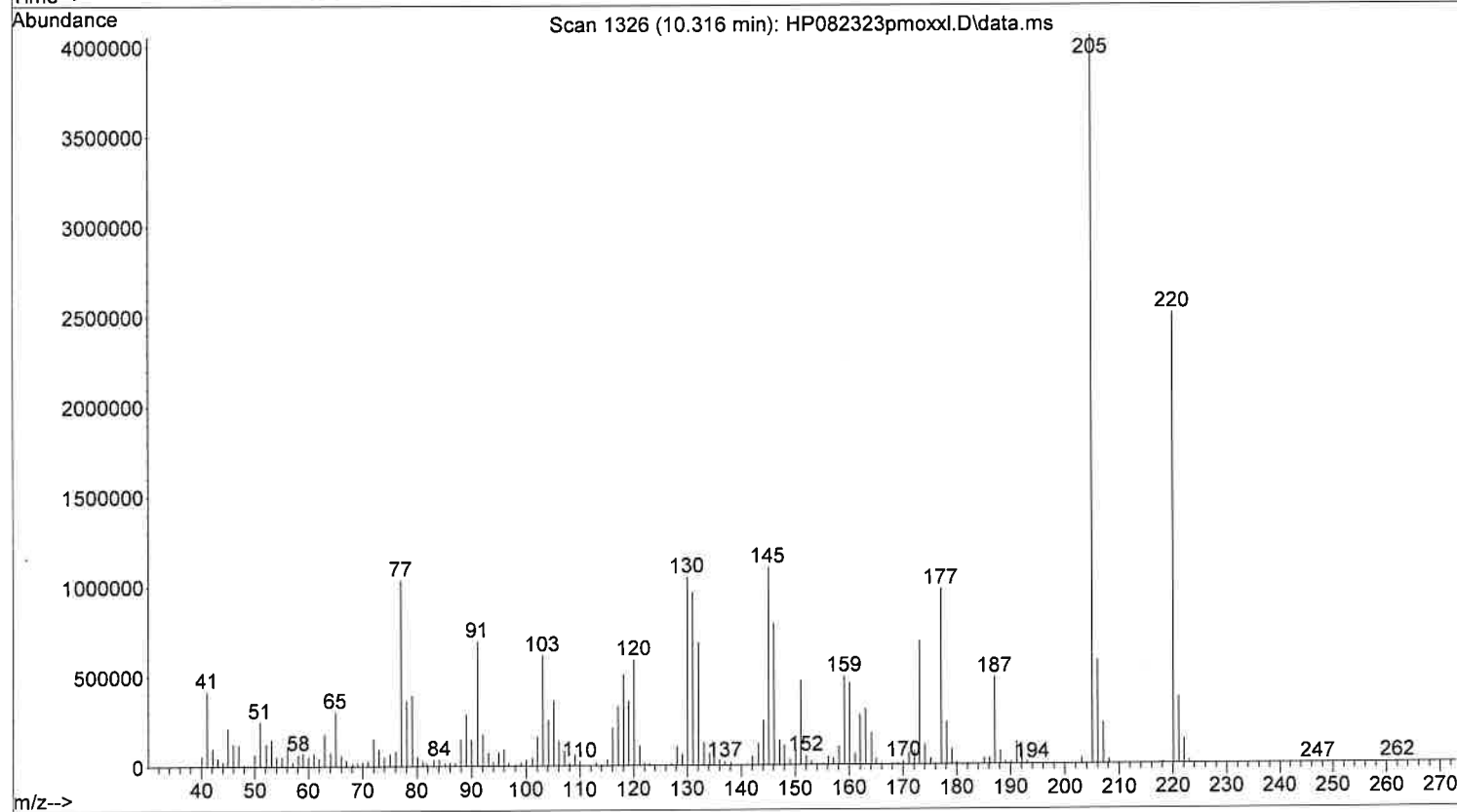
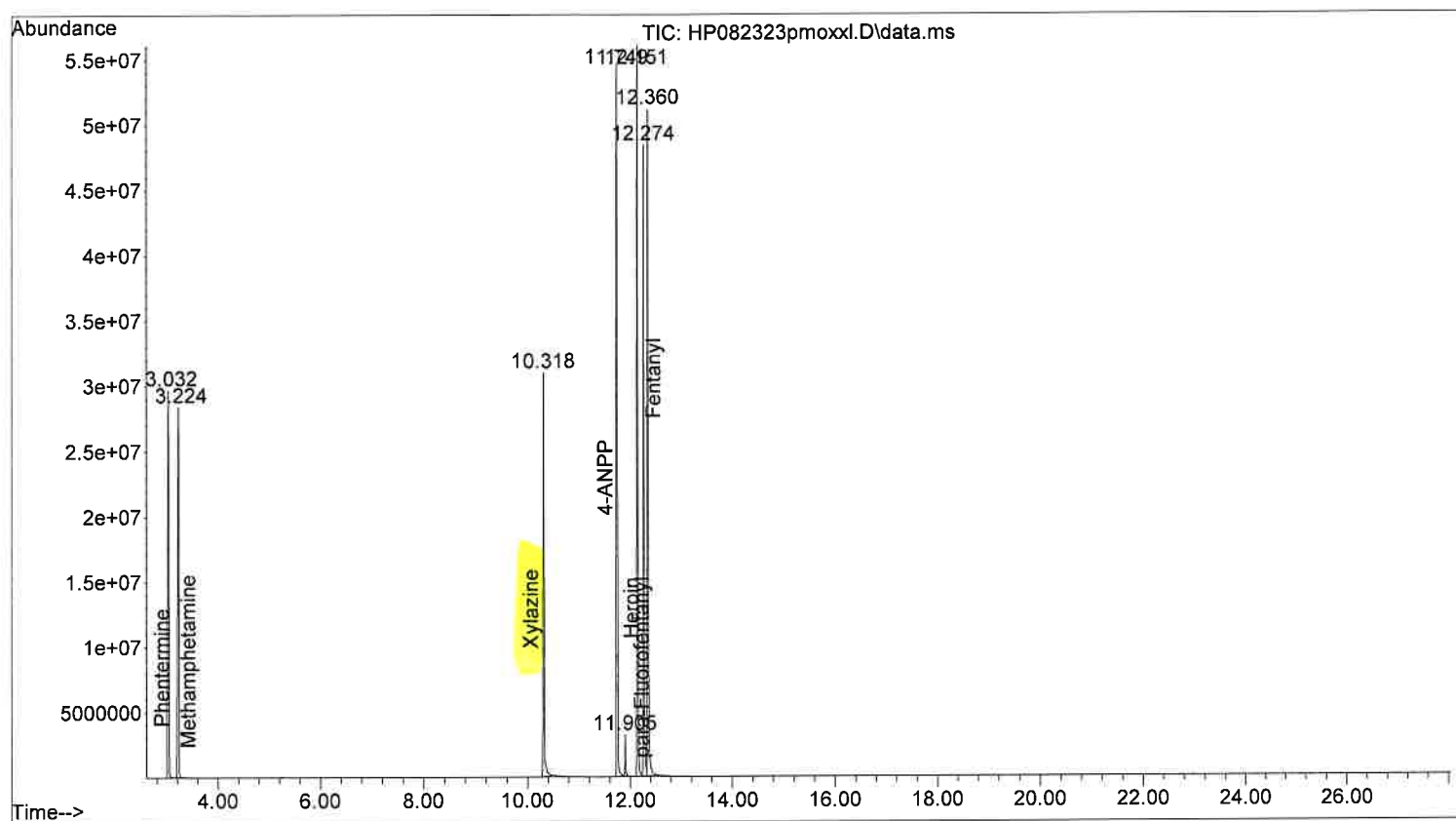
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Operator :
Acquired : 23 Aug 2023 14:36 using AcqMethod XDRUGS.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



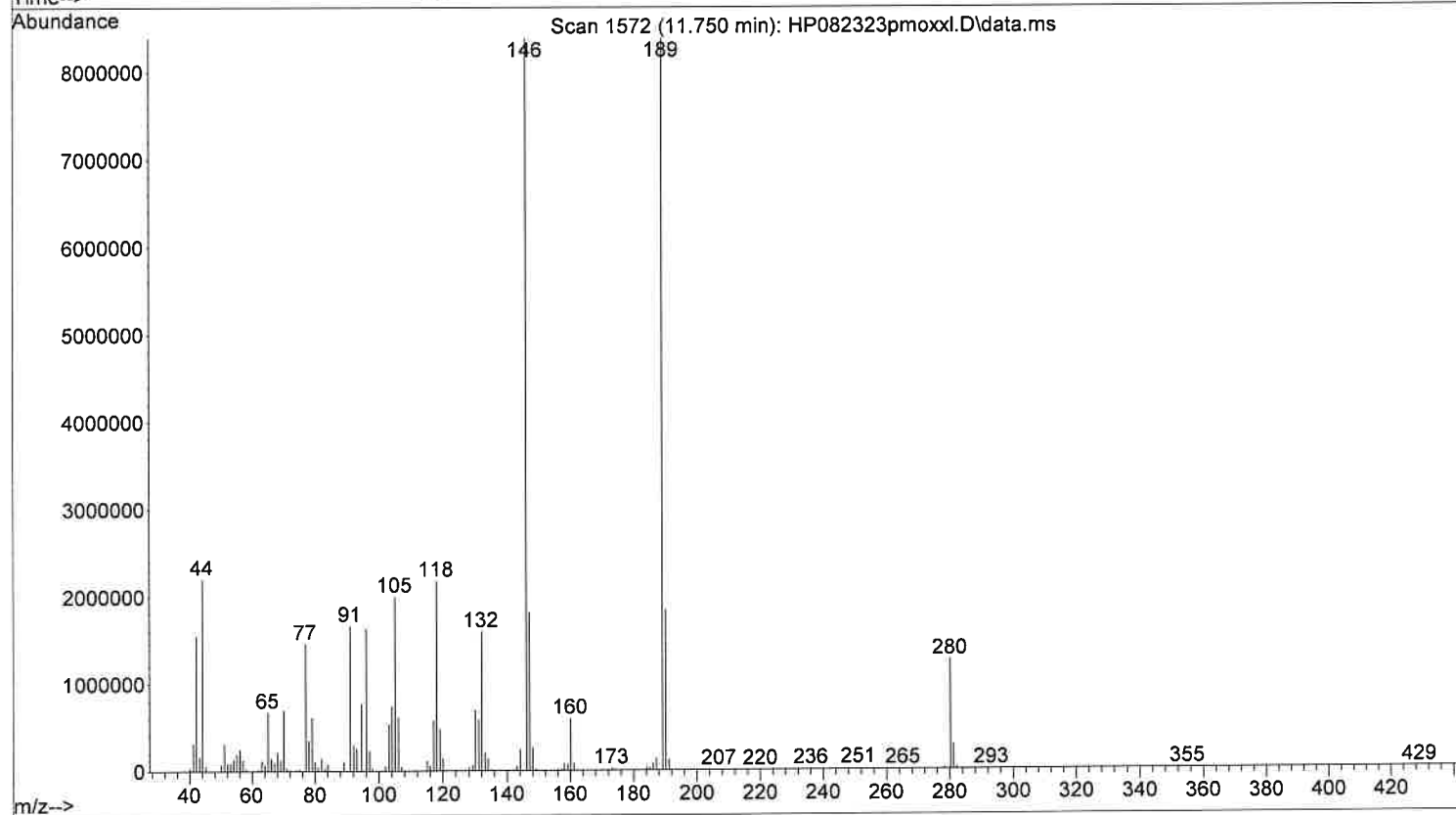
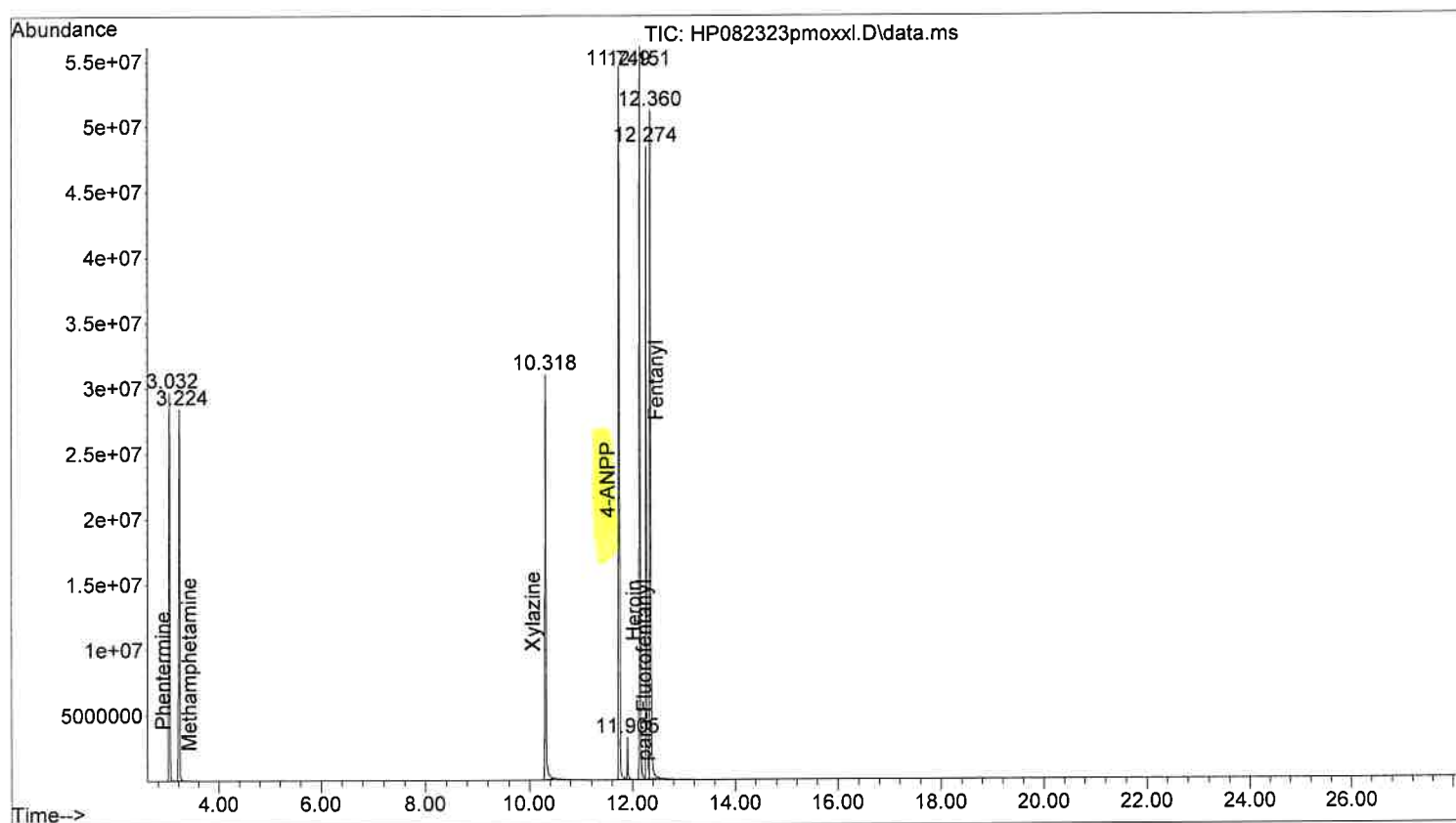
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



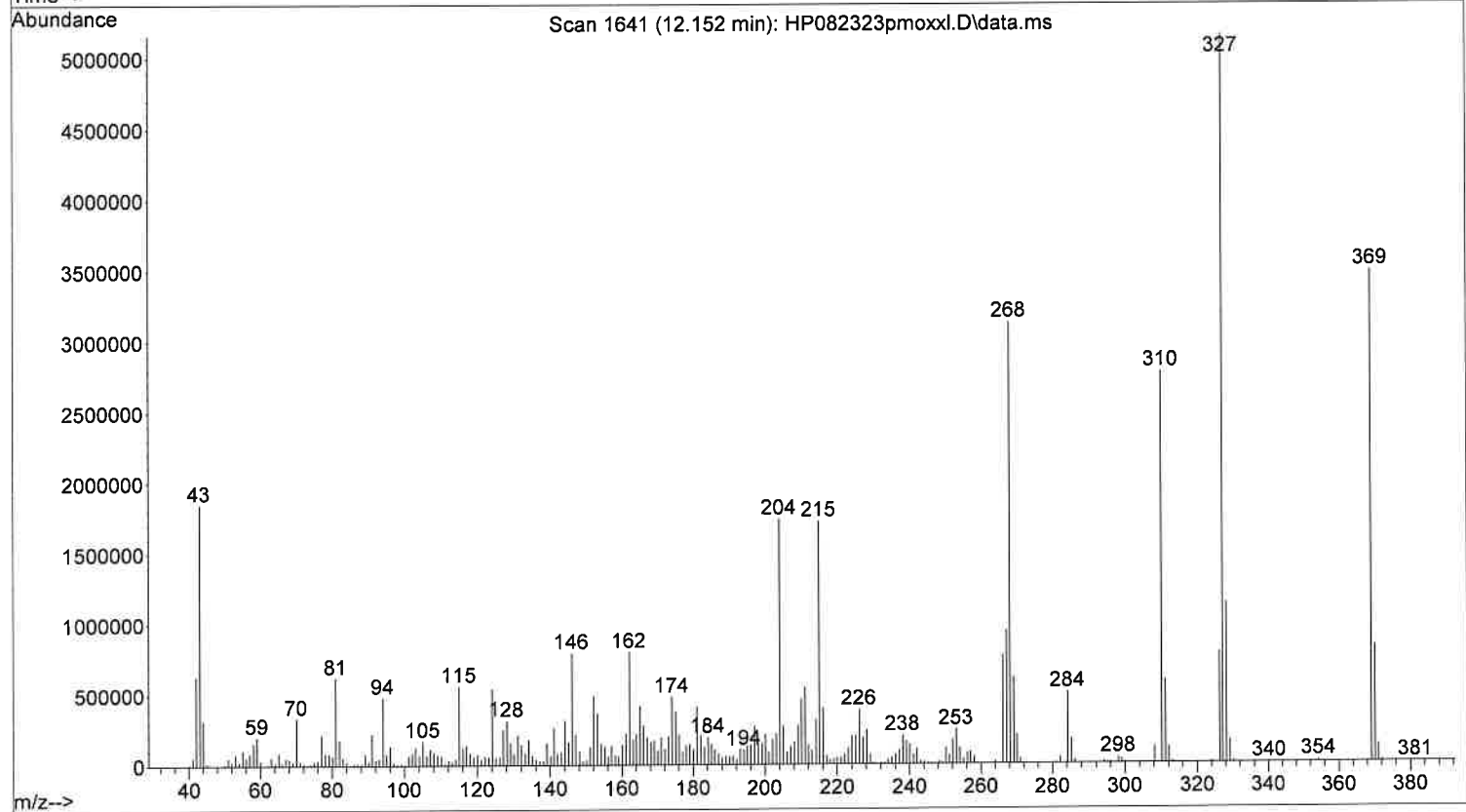
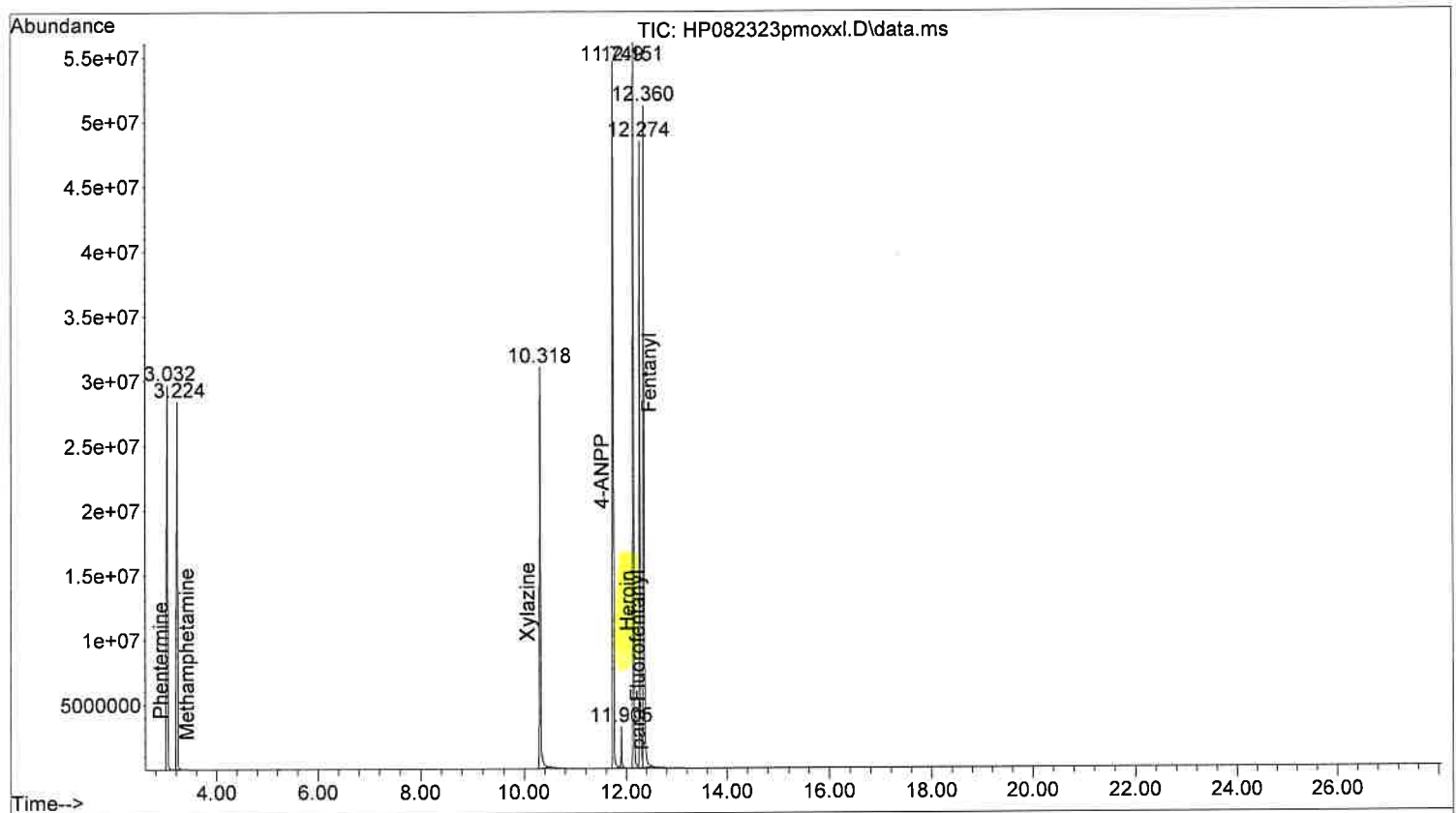
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



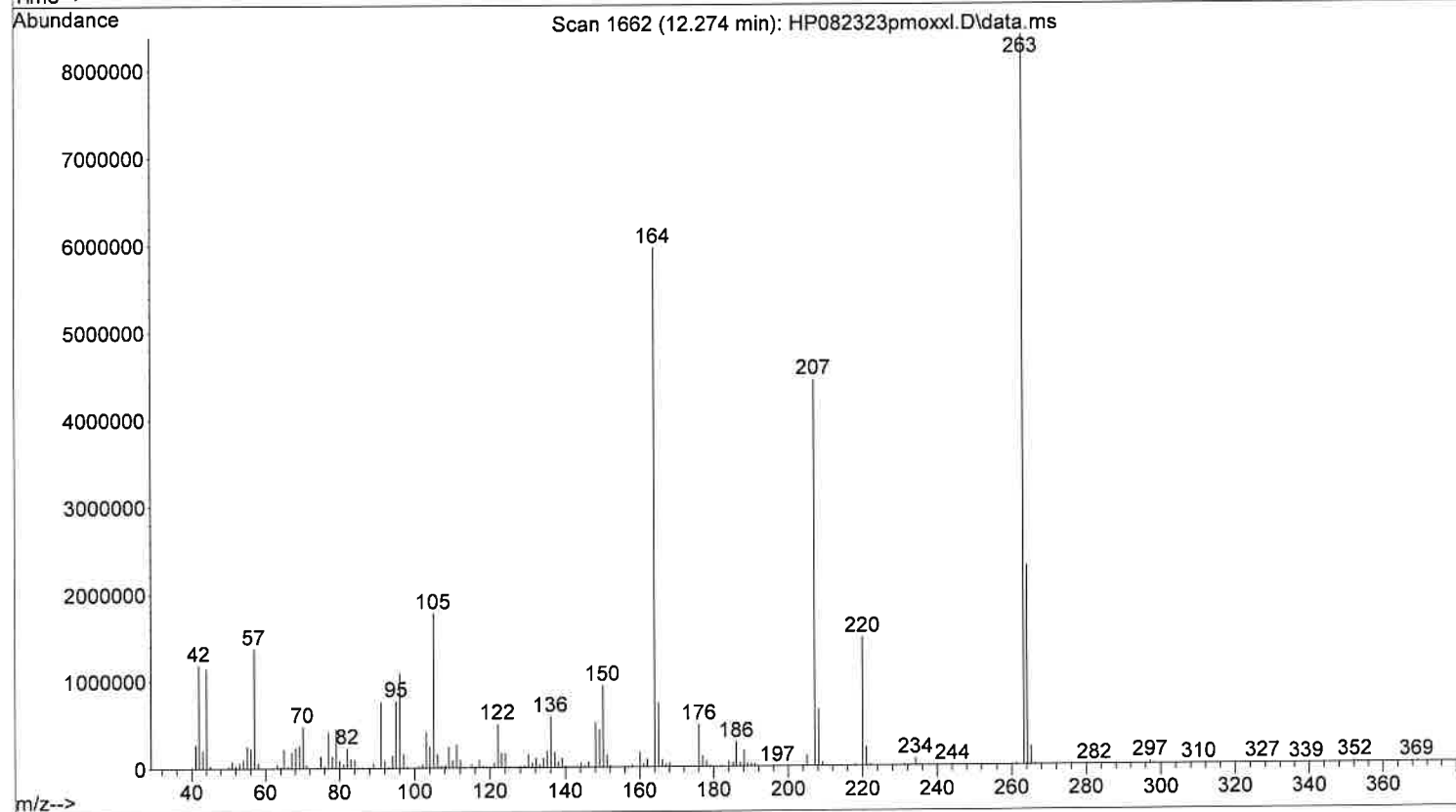
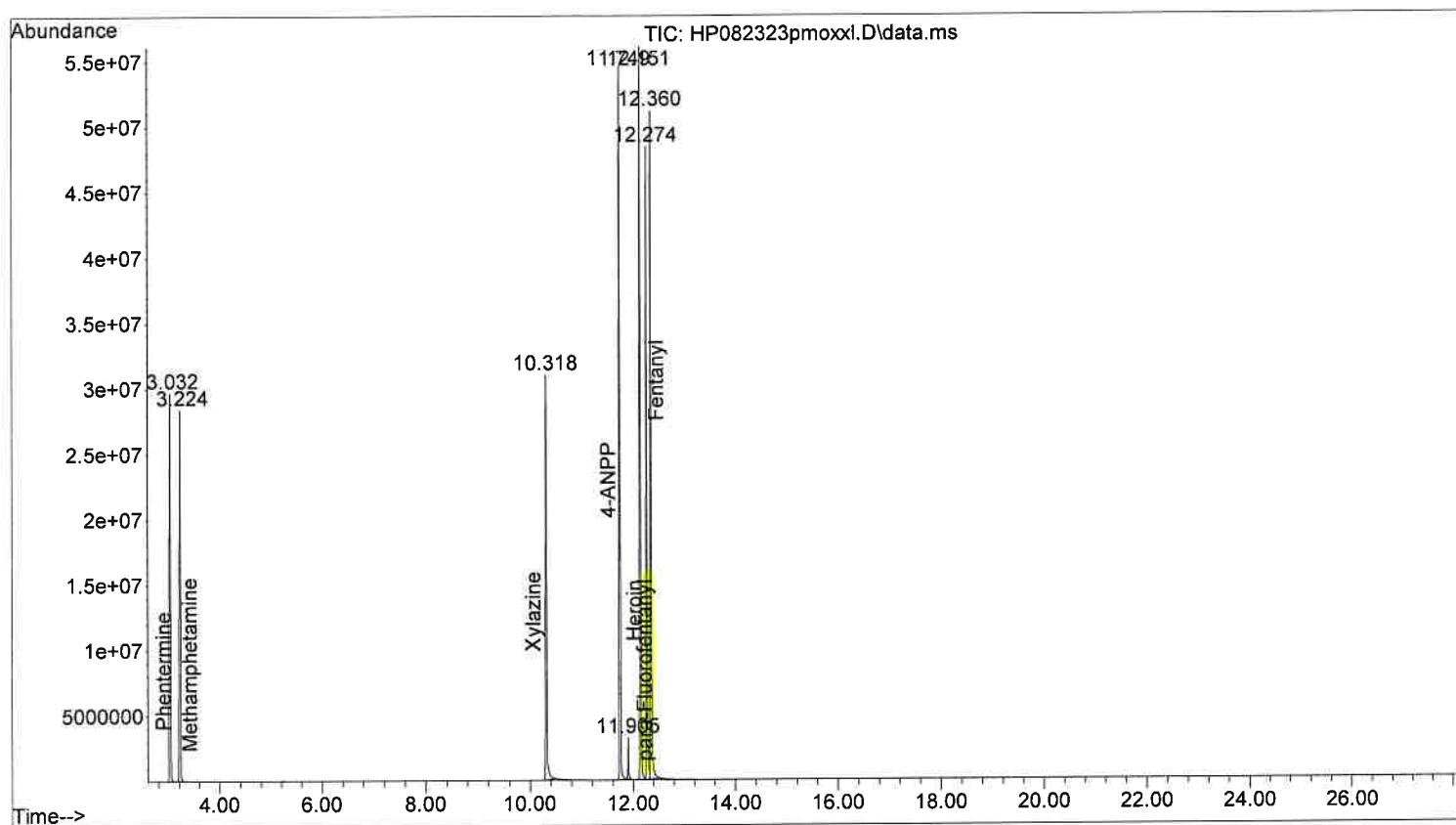
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



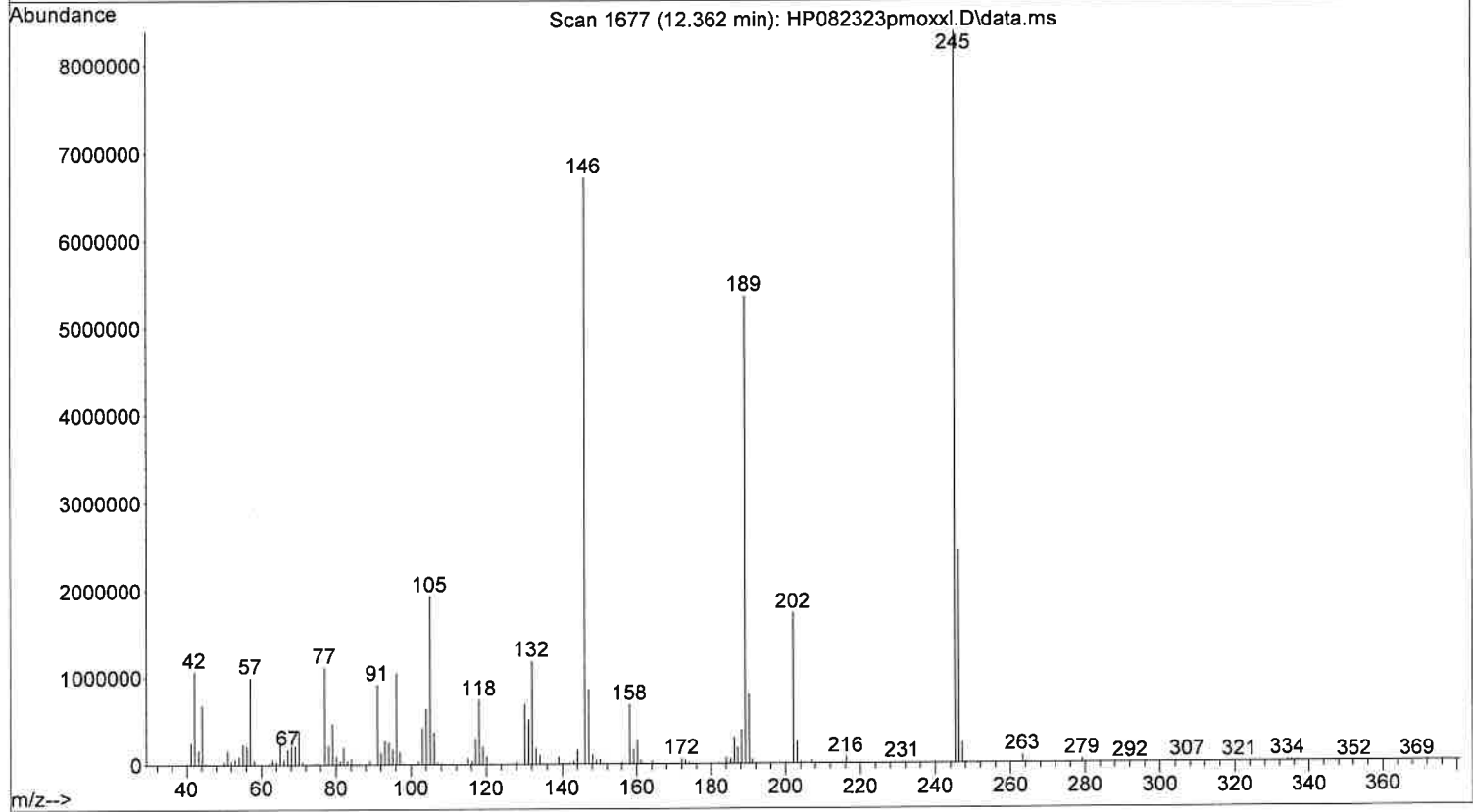
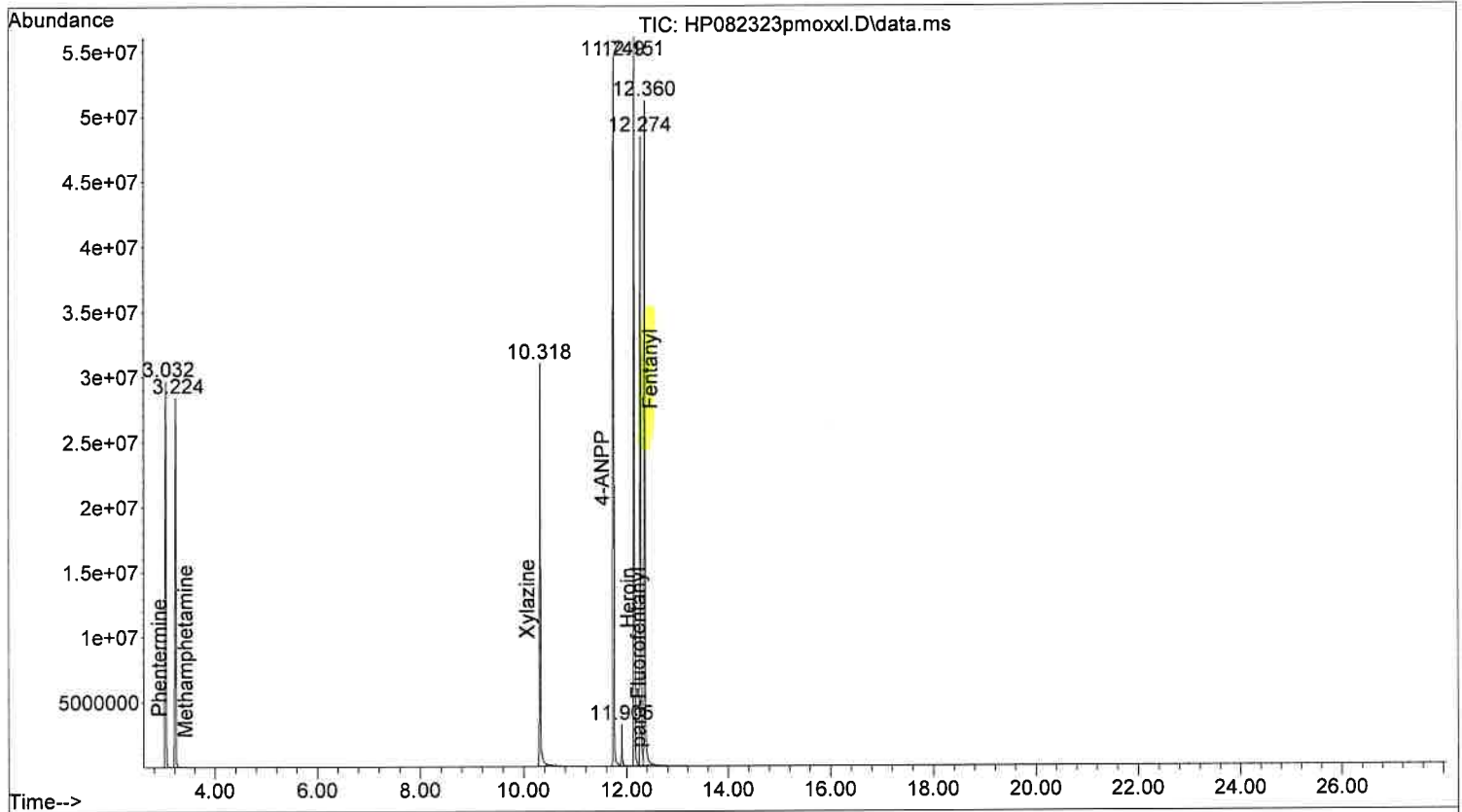
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Acquired : 23 Aug 2023 14:36 using AcqMethod XLDRUGS.M
Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



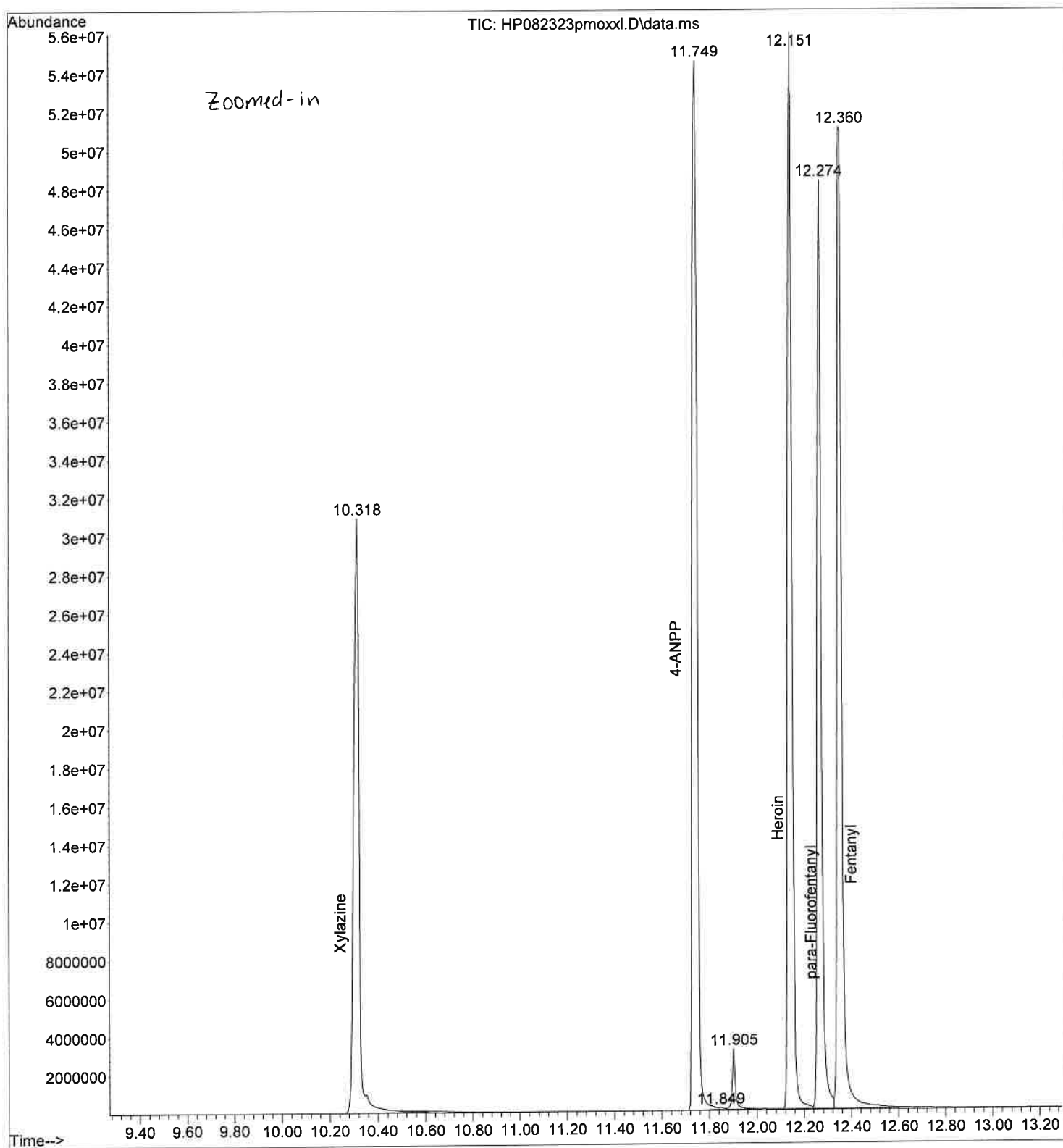
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



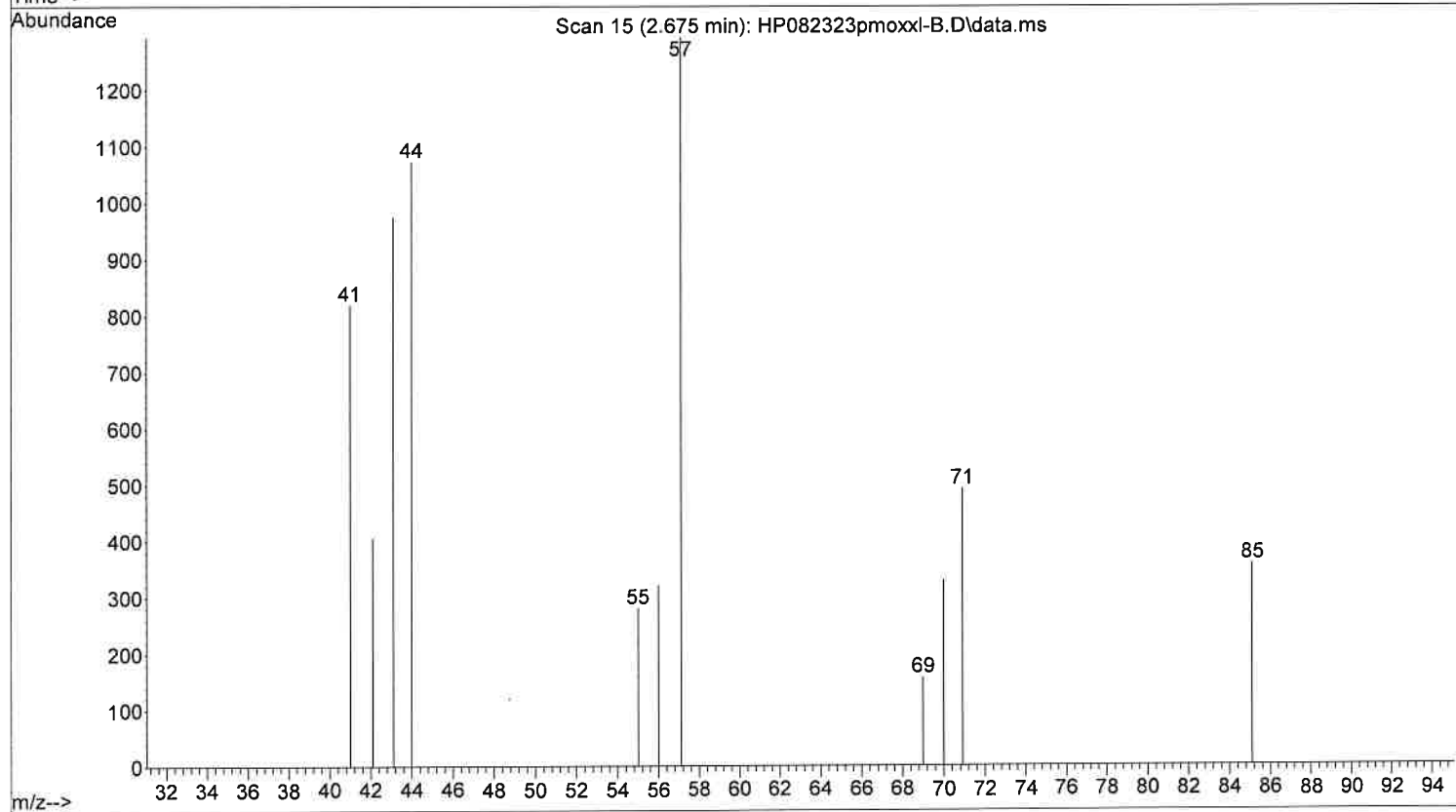
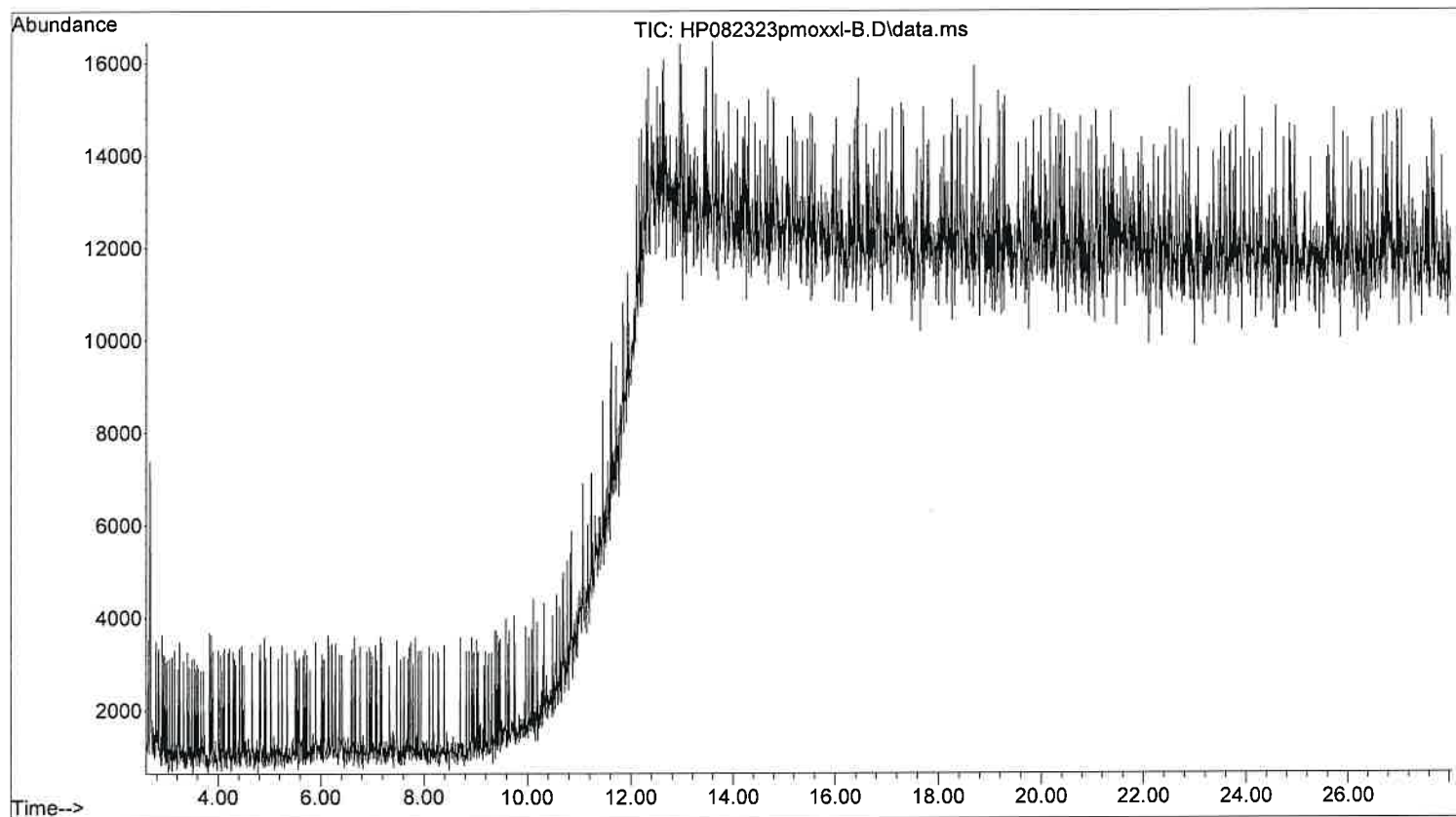
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Instrument : Blossom
Sample Name: P-MOX Standard in Chloroform
Misc Info :
Vial Number: 11



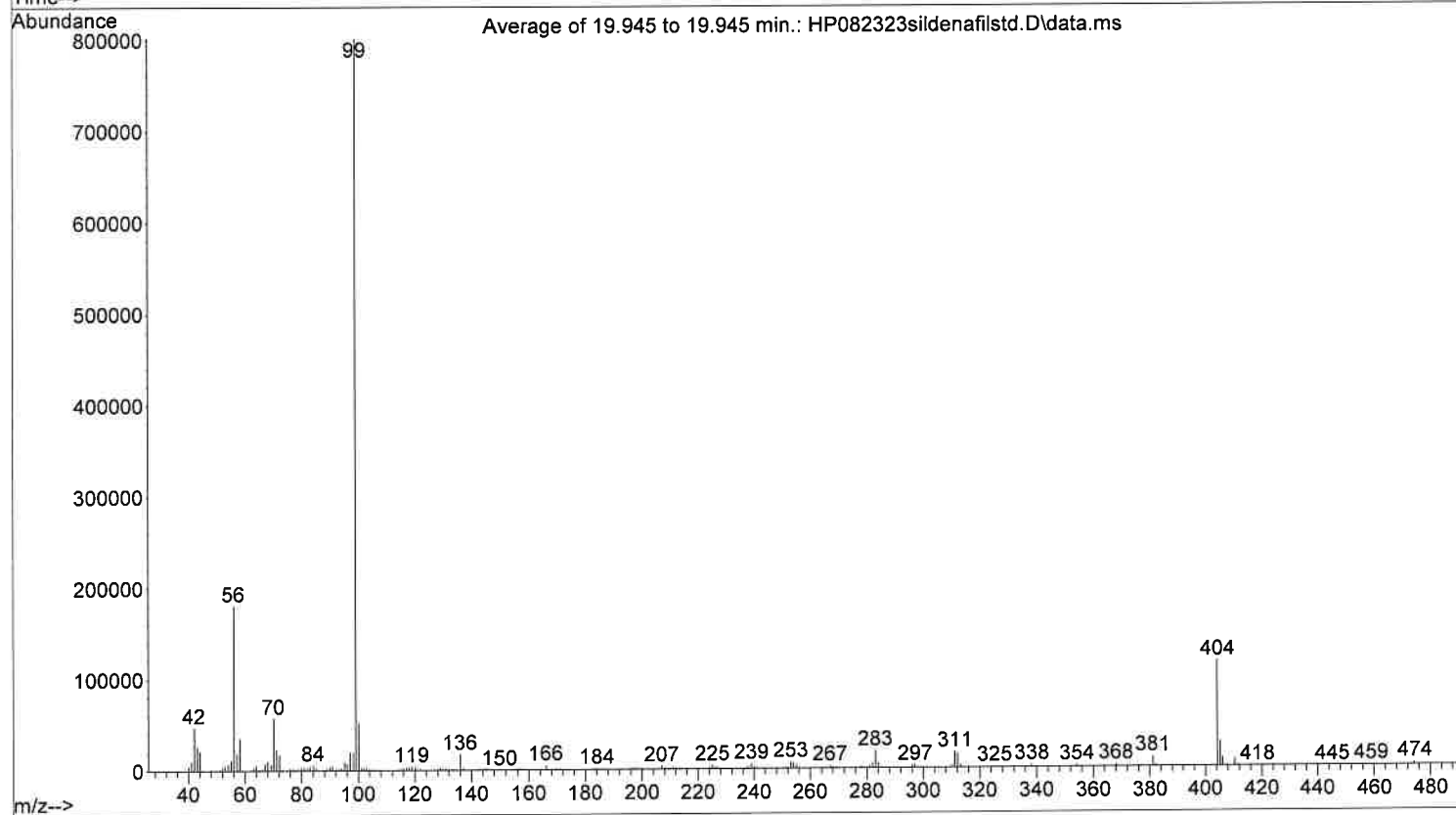
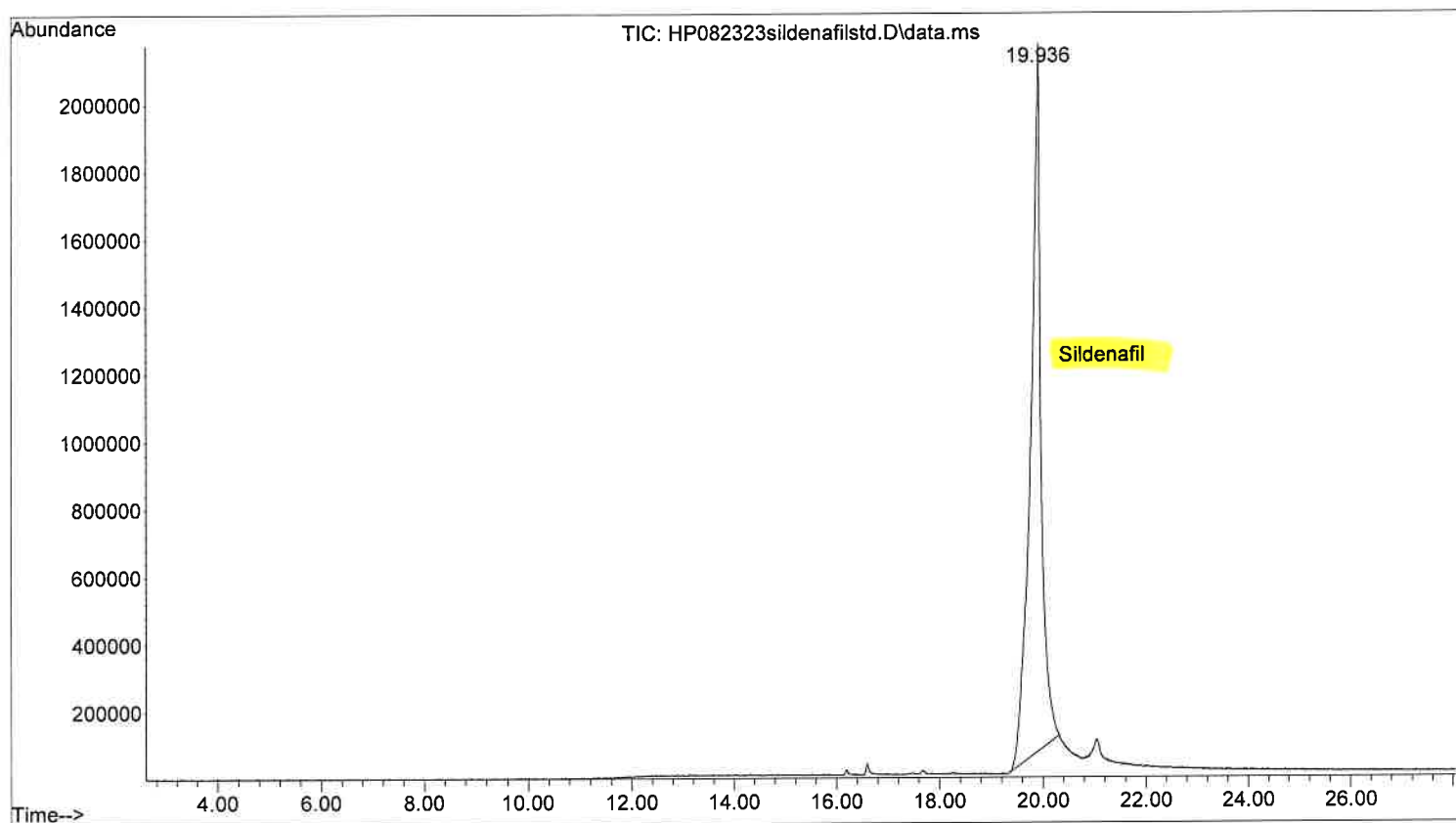
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Instrument : Blossom
Acquired : 23 Aug 2023 14:36 using AcqMethod **XLDRUGS.M**
Sample Name: P-MOX Standard in Chloroform
Misc Info :



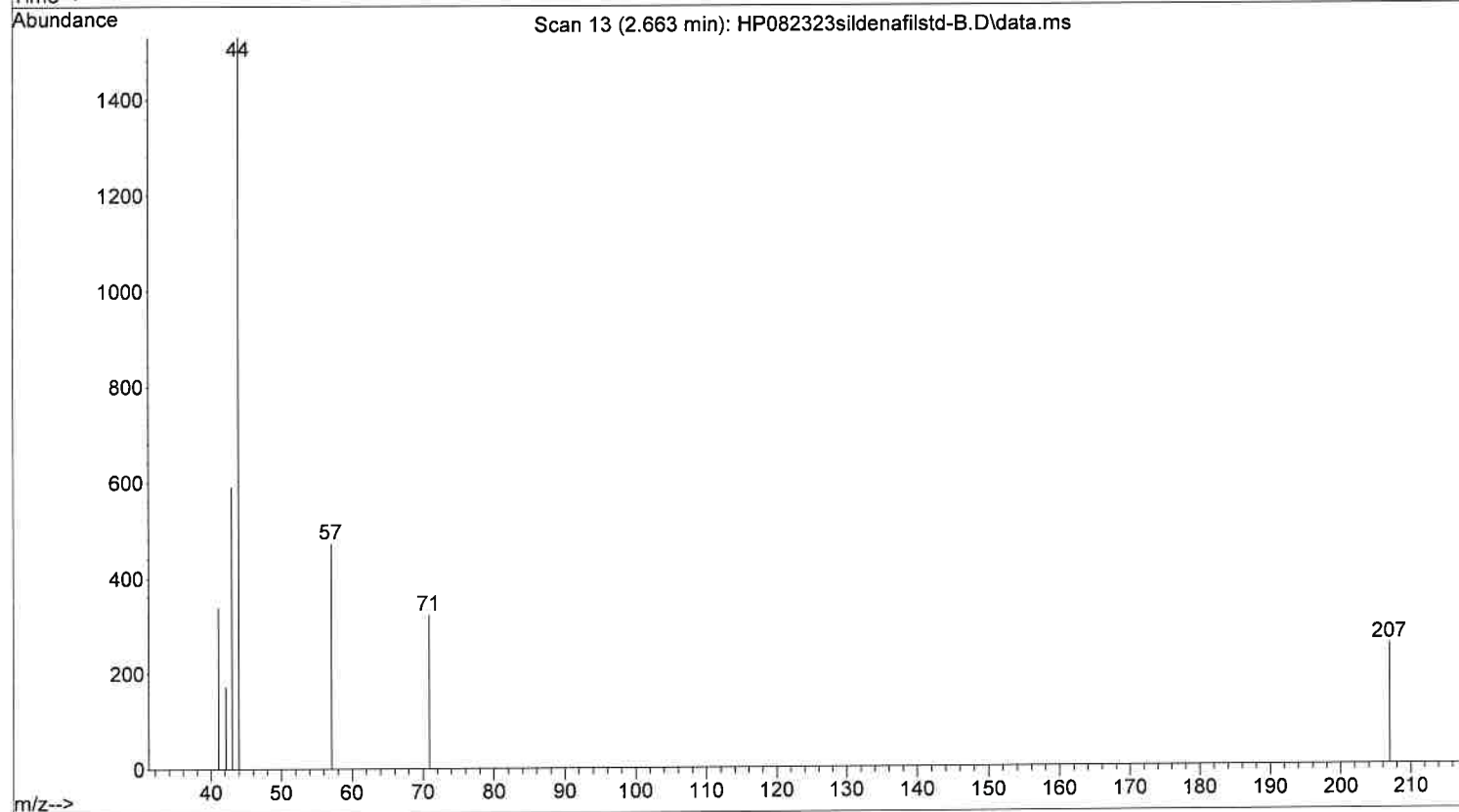
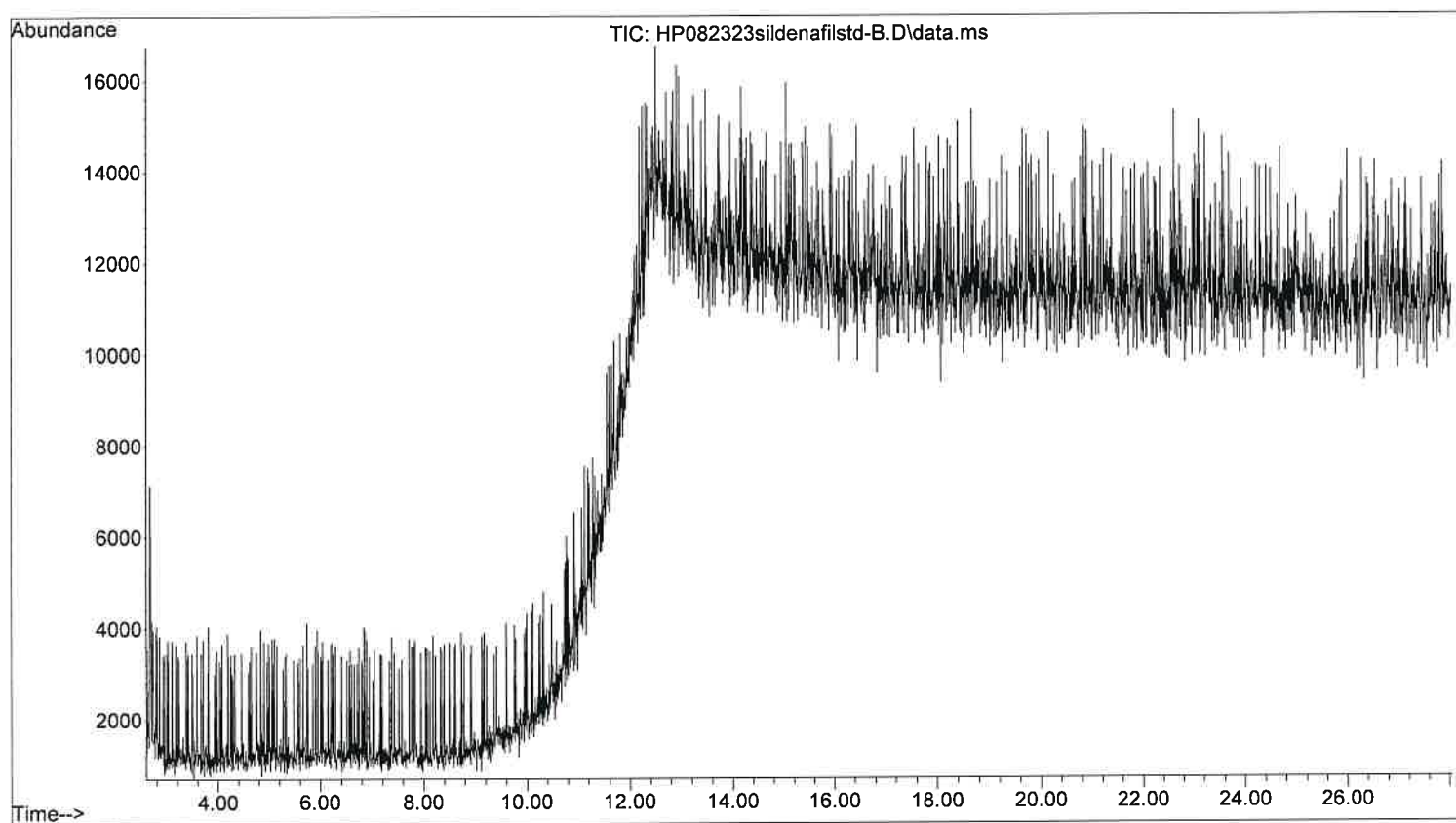
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... 323pmoxxl-B.D
Operator :
Acquired : 23 Aug 2023 14:05 using AcqMethod XLDRUGS.M
Instrument : Blossom
Sample Name: Chloroform Blank for P-MOX Standard
Misc Info :
Vial Number: 1



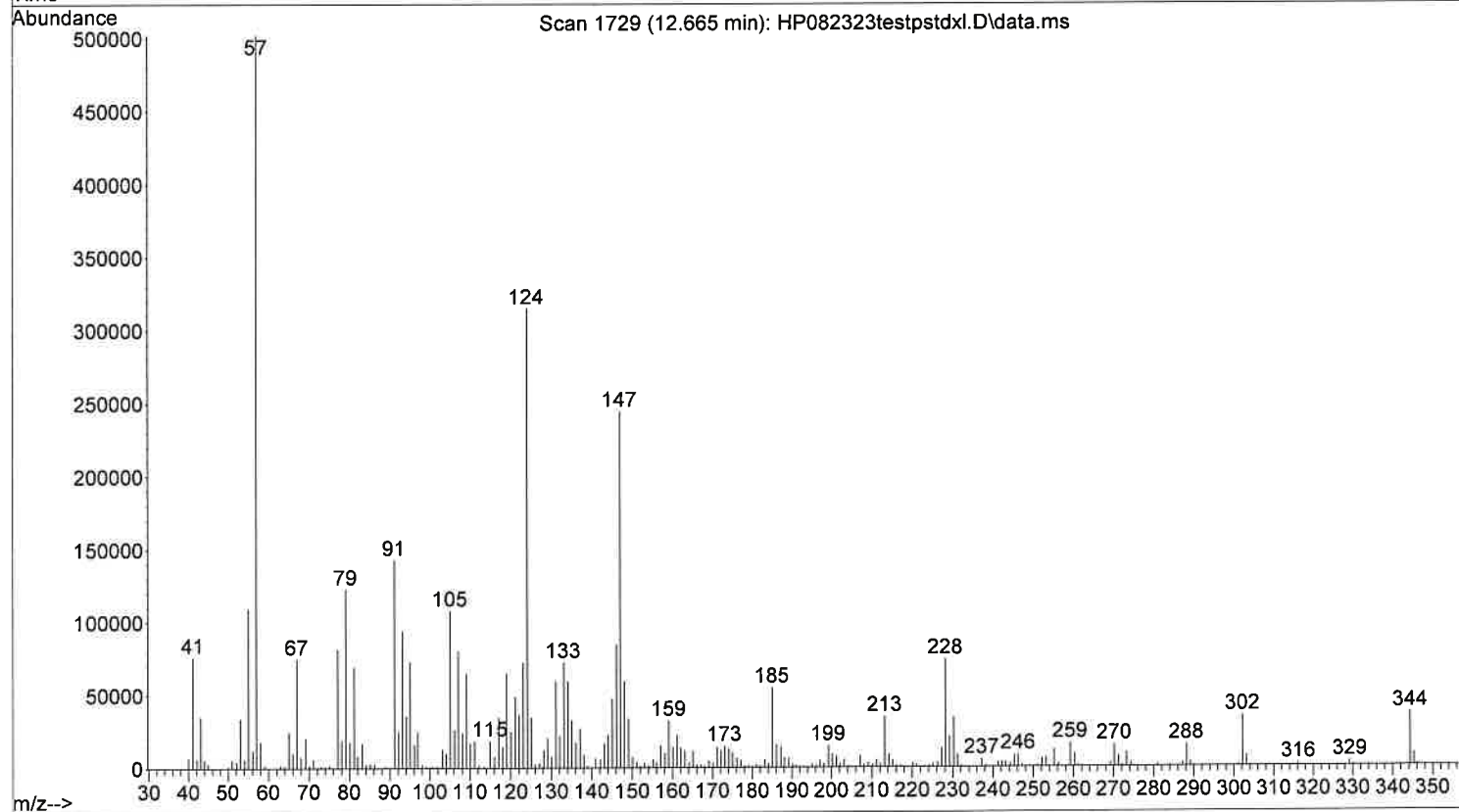
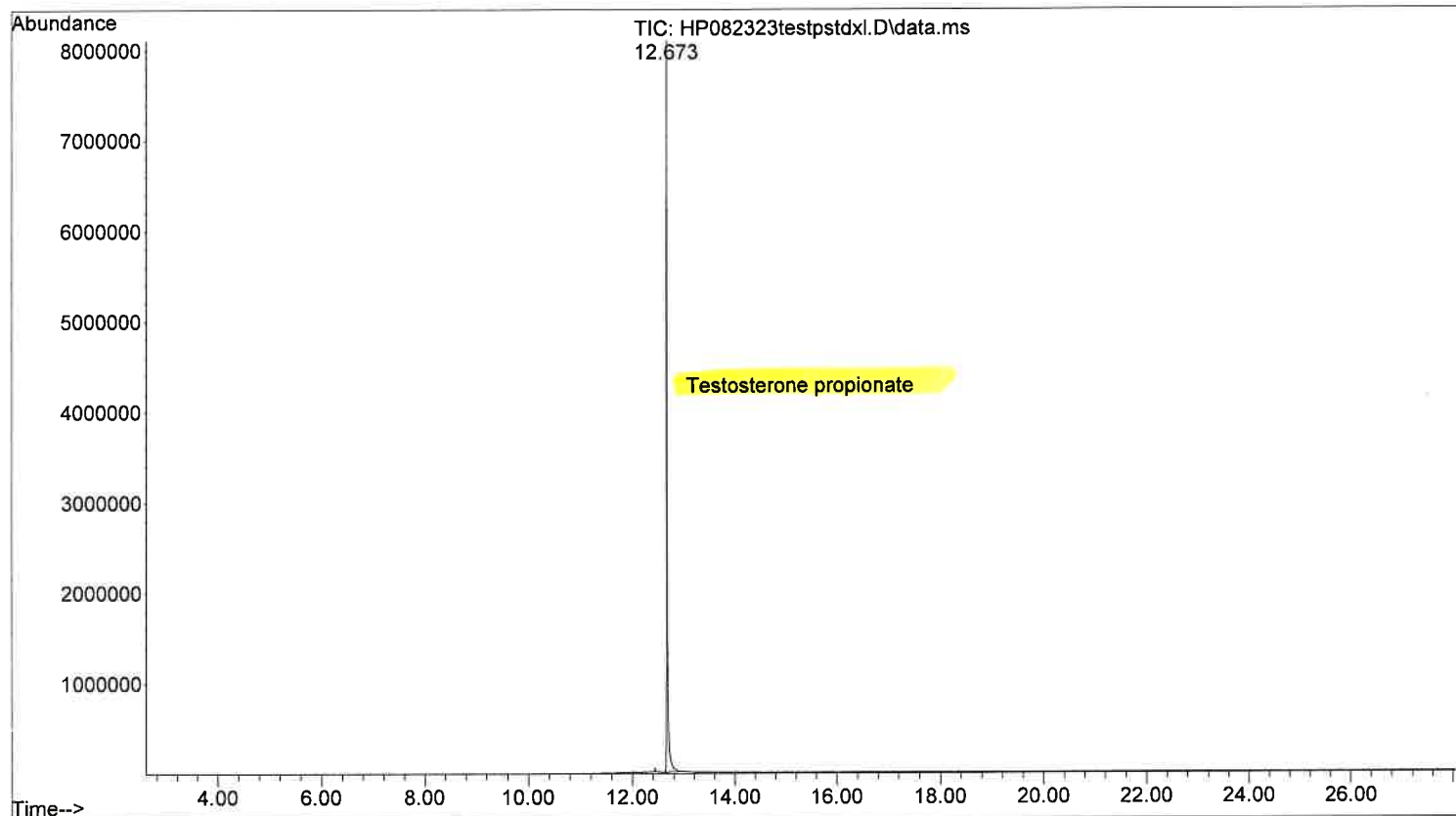
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Operator :
Acquired : 23 Aug 2023 17:17 using AcqMethod XLDRUGS.M
Instrument : Blossom
Sample Name: Sildenafil Standard in Methanol
Misc Info :
Vial Number: 15



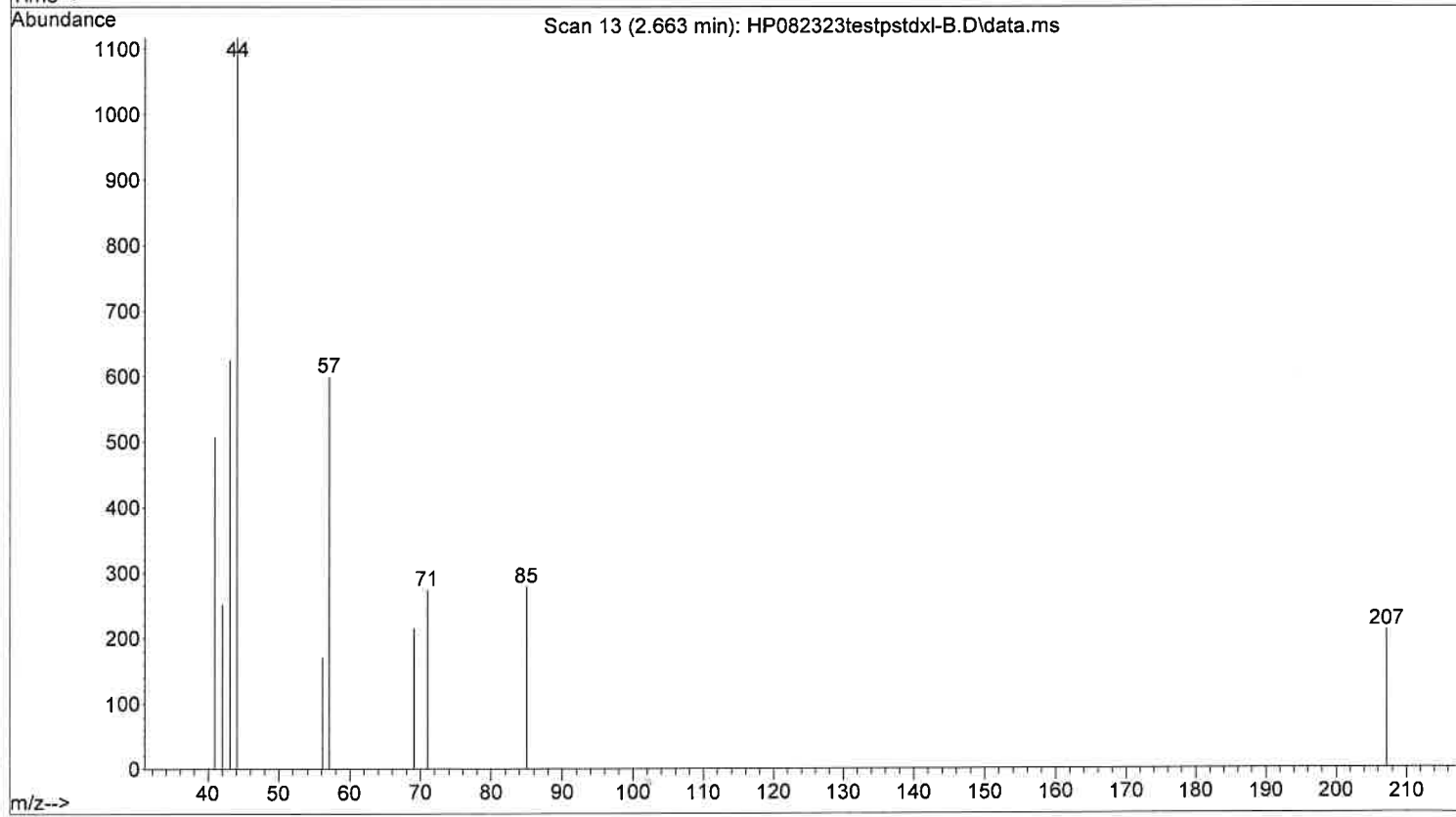
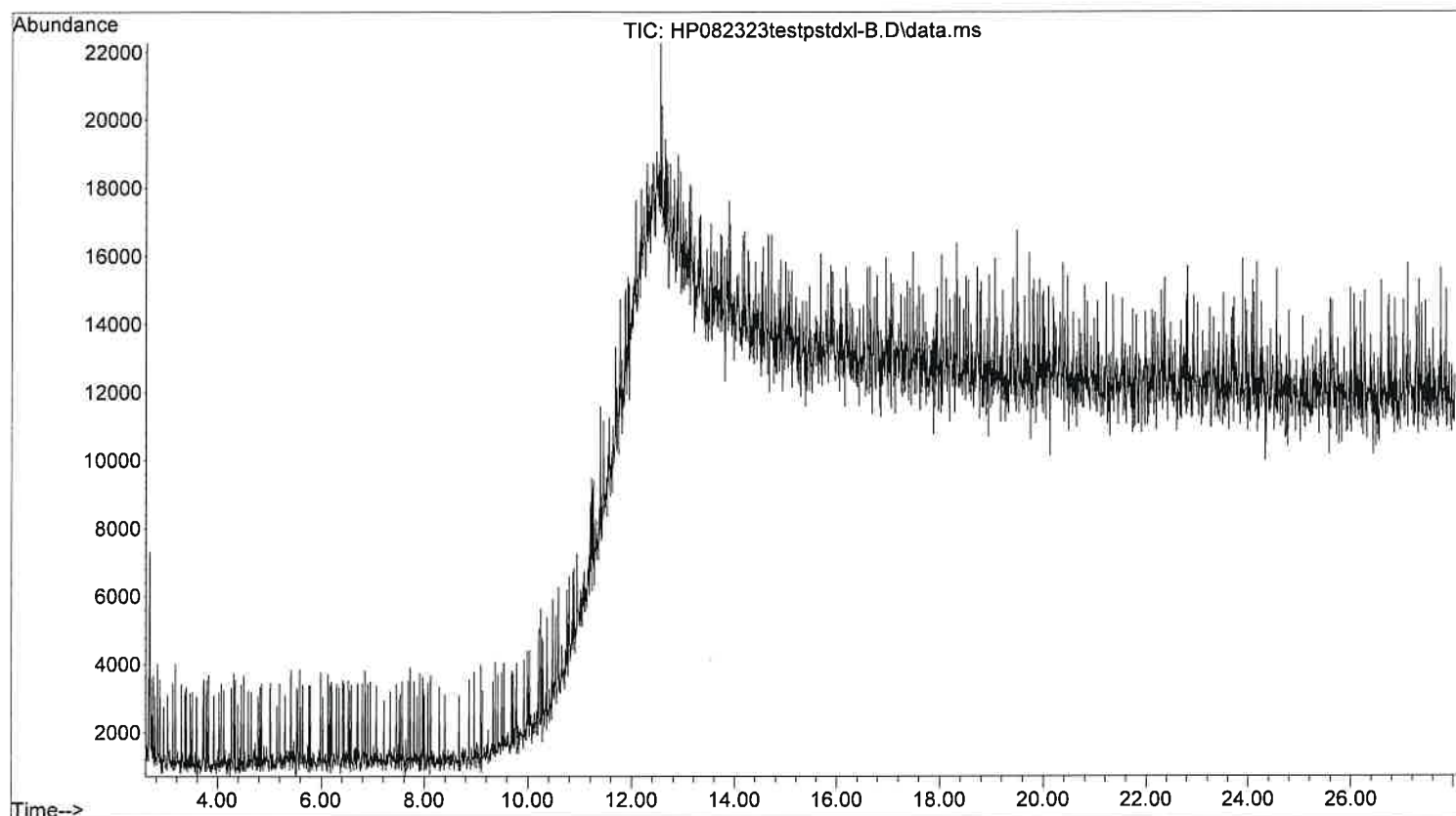
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... 323sildenafilstd-B.D
Operator :
Acquired : 23 Aug 2023 16:46 using AcqMethod XLDRUGS.M
Instrument : Blossom
Sample Name: Methanol Blank for Sildenafil Standard
Misc Info :
Vial Number: 1



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323testpstdxl.D
Operator :
Acquired : 23 Aug 2023 15:57 using AcqMethod XDRUGS.M
Instrument : Blossom
Sample Name: Testosterone Propionate Standard in Methanol
Misc Info :
Vial Number: 12



File :D:\MassHunter\GCMS\1\data\Performance Check\Validation\HP082
... 323testpstdxl-B.D
Operator :
Acquired : 23 Aug 2023 15:26 using AcqMethod XDRUGS.M
Instrument : Blossom
Sample Name: Methanol Blank for Testosterone Propionate Standard
Misc Info :
Vial Number: 1



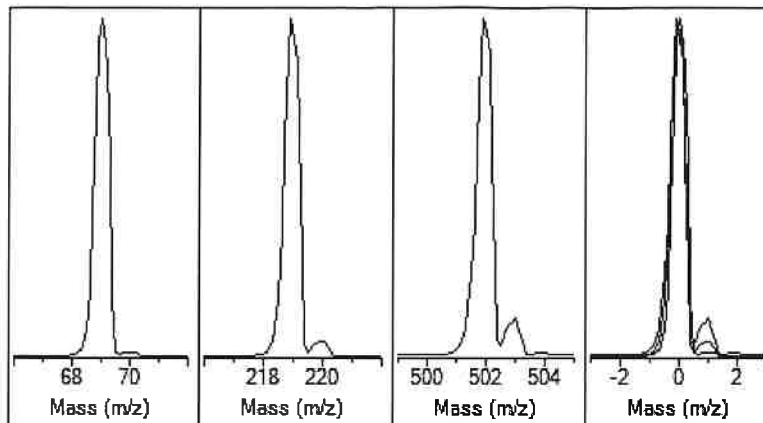
Autotune - 5977C

Tune timestamp: 8/21/2023 9:35 AM (UTC-04:00)

Blossom

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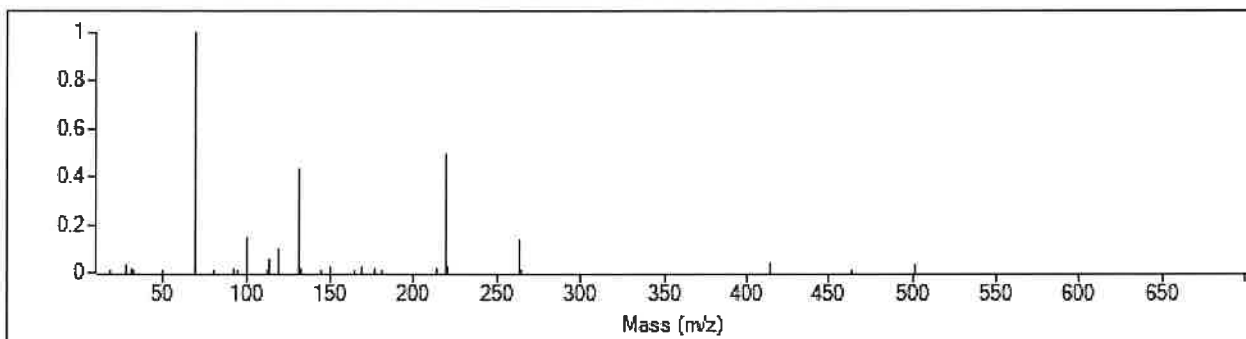


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	198
Electron Energy	70.0	Mass Offset	-24
Filament	1	Amu Gain	2669
Repeller	34.90	Amu Offset	137.75
Ion Focus	90.3	Width219	-0.018
Entrance Lens	12.6	DC Polarity	Neg
Ent Lens Offset	13.73	HED Enable	On
Ion Body	0.00	EM Volts	953.3
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	528,947	100.0%	0.60
218.90	264,116	49.9%	0.60
501.90	16,334	3.1%	0.58

Temperatures and Pressures			
MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.26e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	111	69.00	499,008	1,382,737



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	499,008	100.0%	70.00	5,696	1.1%
219.00	219.00	245,376	49.2%	220.00	10,559	4.3%
502.00	502.00	15,226	3.1%	503.00	1,381	9.1%

Air/Water Check: H2O ~1.1% N2 ~3.2% O2 ~0.5% CO2 ~0.1% N2/H2O ~280.7%

Column(1) Flow: 1.25 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 60091.001

Repeller maximum 35 volts using ion 219; Gain Factor 0.6009

Mass Gain Values(Scan Speed): 207(3) 218(2) 225(1) 244(0) 296(FS1) 295(FS2)

TARGET MASS:	50	69	131	219	414	502	1091
Amu Offset	137.8	137.8	137.8	137.8	137.8	137.8	137.8
Entrance Lens Offset	13.7	13.7	13.7	13.7	13.7	13.7	13.7

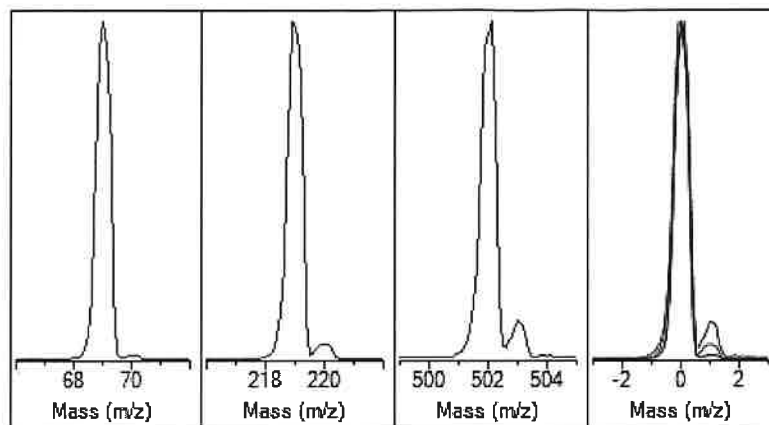
Autotune - 5977C

Tune timestamp: 8/14/2023 9:26 AM (UTC-04:00)

Blossom

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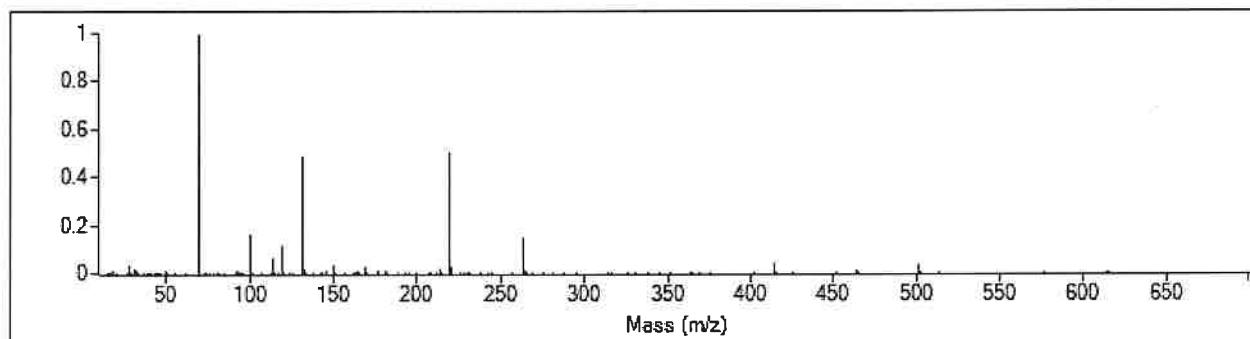


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	208
Electron Energy	70.0	Mass Offset	-24
Filament	1	Amu Gain	2672
Repeller	34.90	Amu Offset	137.00
Ion Focus	90.3	Width219	-0.022
Entrance Lens	15.1	DC Polarity	Neg
Ent Lens Offset	13.57	HED Enable	On
Ion Body	0.00	EM Volts	975.5
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	463,871	100.0%	0.60
218.90	228,393	49.2%	0.60
502.10	16,746	3.6%	0.57

Temperatures and Pressures			
MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.23e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	123	69.00	435,392	1,277,168



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	435,392	100.0%	70.00	4,766	1.1%
219.00	219.00	219,904	50.5%	220.00	9,948	4.5%
502.00	502.00	15,404	3.5%	503.10	1,536	10.0%

Air/Water Check: H2O ~0.8% N2 ~3.3% O2 ~0.6% CO2 ~0.1% N2/H2O ~431.3%

Column(1) Flow: 1.25 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 81770.606

Repeller maximum 35 volts using ion 219; Gain Factor 0.8177

Mass Gain Values(Scan Speed): 211(3) 217(2) 231(1) 253(0) 305(FS1) 304(FS2)

TARGET MASS:	50	69	131	219	414	502	1091
Amu Offset	137.0	137.0	137.0	137.0	137.0	137.0	137.0
Entrance Lens Offset	13.6	13.6	13.6	13.6	13.6	13.6	13.6

Report Created: 8/14/2023 9:27 AM (UTC-04:00)

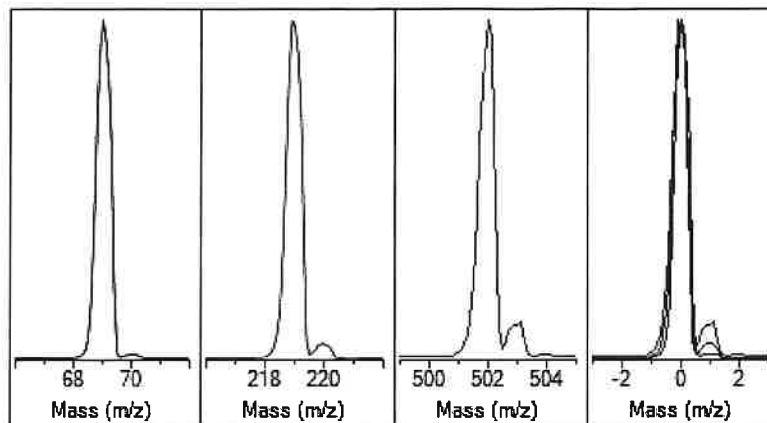
Autotune - 5977C

Tune timestamp: 8/7/2023 9:14 AM (UTC-04:00)

Blossom

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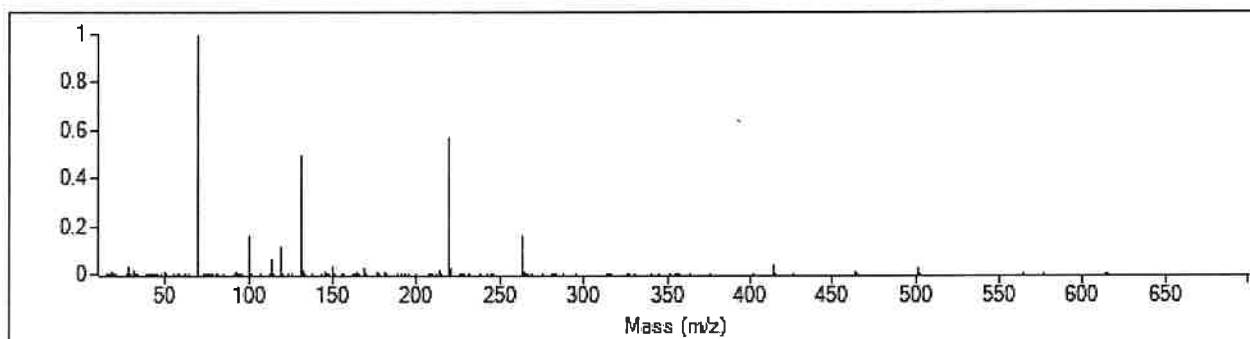


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	199
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	2666
Repeller	34.90	Amu Offset	136.75
Ion Focus	90.3	Width219	-0.012
Entrance Lens	20.2	DC Polarity	Neg
Ent Lens Offset	13.23	HED Enable	On
Ion Body	0.00	EM Volts	944.1
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	475,103	100.0%	0.60
218.90	264,162	55.6%	0.60
502.00	14,711	3.1%	0.60

Temperatures and Pressures		
MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	1.25e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	140	69.00	446,080	1,362,219



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	446,080	100.0%	70.00	5,147	1.2%
219.00	219.00	256,384	57.5%	220.00	11,478	4.5%
502.00	502.00	13,458	3.0%	503.10	1,560	11.6%

Alr/Water Check: H2O ~0.9% N2 ~3.7% O2 ~0.4% CO2 ~0.2% N2/H2O ~395.1%

Column(1) Flow: 1.25 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 52632.950

Repeller maximum 35 volts using ion 219; Gain Factor 0.5263

Mass Gain Values(Scan Speed): 207(3) 214(2) 231(1) 251(0) 303(FS1) 302(FS2)

TARGET MASS:	50	69	131	219	414	502	1091
Amu Offset	136.8	136.8	136.8	136.8	136.8	136.8	136.8
Entrance Lens Offset	13.2	13.2	13.2	13.2	13.2	13.2	13.2

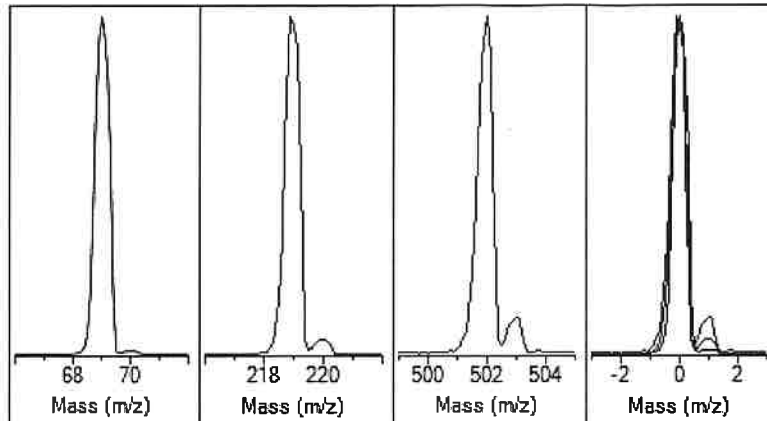
Autotune - 5977C

Tune timestamp: 8/2/2023 1:08 PM (UTC-04:00)

Blossom

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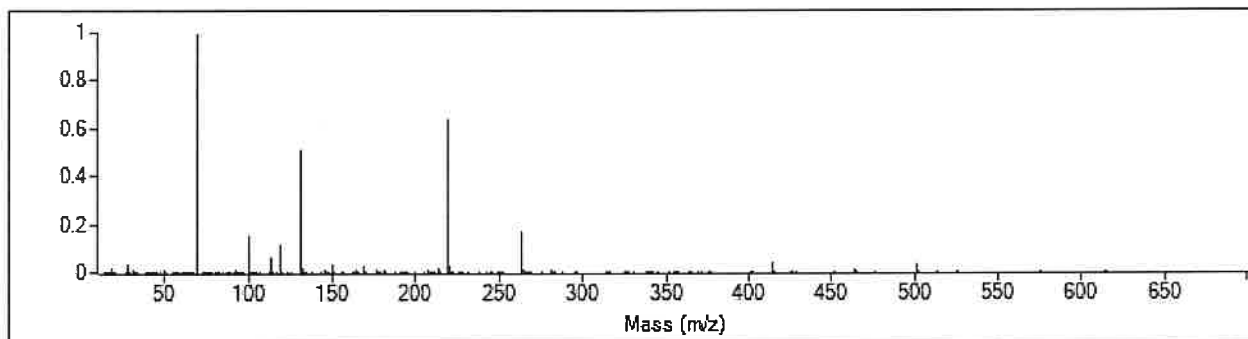


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	196
Electron Energy	70.0	Mass Offset	-23
Filament	1	Amu Gain	2667
Repeller	34.90	Amu Offset	137.06
Ion Focus	90.3	Width219	-0.011
Entrance Lens	17.6	DC Polarity	Neg
Ent Lens Offset	13.40	HED Enable	On
Ion Body	0.00	EM Volts	924.0
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	510,616	100.0%	0.60
218.90	328,930	64.4%	0.60
502.00	18,807	3.7%	0.58

Temperatures and Pressures		
MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	1.29e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	188	69.00	485,952	1,560,217



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	485,952	100.0%	70.00	5,258	1.1%
219.00	219.00	312,128	64.2%	220.00	13,667	4.4%
502.00	502.00	16,992	3.5%	503.00	1,863	11.0%

Air/Water Check: H2O ~2.0% N2 ~3.6% O2 ~0.3% CO2 ~0.3% N2/H2O ~179.6%

Column(1) Flow: 1.25 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 40788.908

Repeller maximum 35 volts using ion 219; Gain Factor 0.4079

Mass Gain Values(Scan Speed): 205(3) 216(2) 229(1) 243(0) 287(FS1) 304(FS2)

TARGET MASS:	50	69	131	219	414	502	1091
Amu Offset	137.1	137.1	137.1	137.1	137.1	137.1	137.1
Entrance Lens Offset	13.4	13.4	13.4	13.4	13.4	13.4	13.4

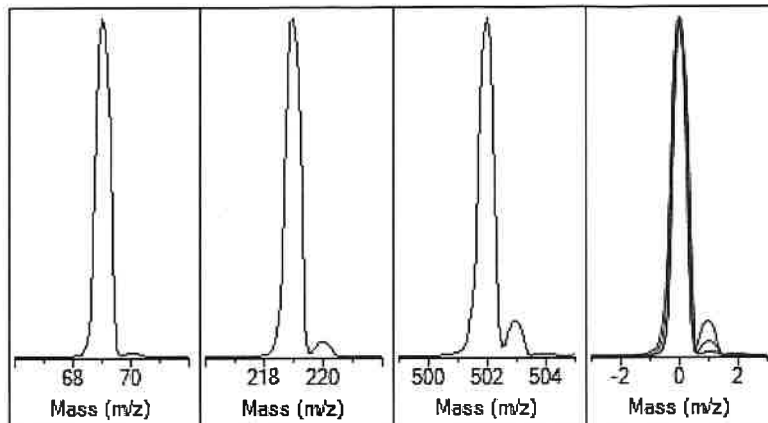
Autotune - 5977C

Tune timestamp: 8/2/2023 9:13 AM (UTC-04:00)

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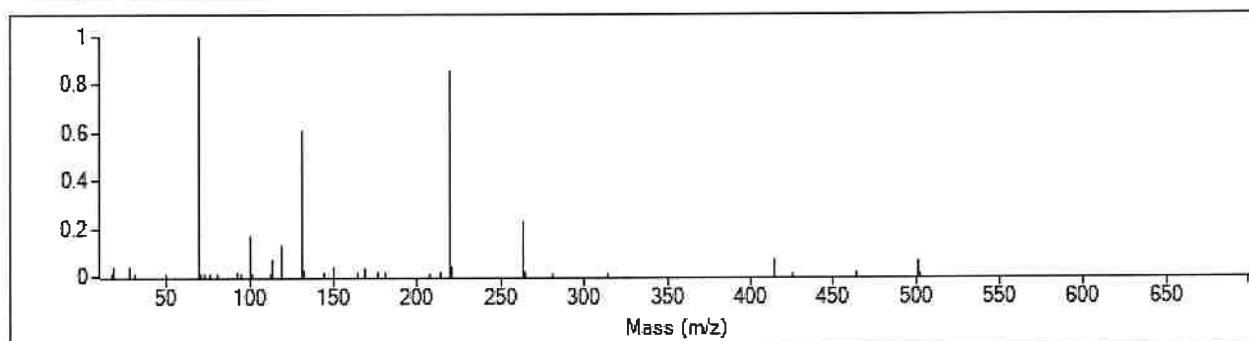


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	198
Electron Energy	70.0	Mass Offset	-21
Filament	1	Amu Gain	2661
Repeller	31.71	Amu Offset	136.88
Ion Focus	90.3	Width219	-0.027
Entrance Lens	22.7	DC Polarity	Neg
Ent Lens Offset	12.03	HED Enable	On
Ion Body	0.00	EM Volts	930.4
Post Extractor 1	0	Extractor Lens	0.00
Post Extractor 2	0	Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	477,902	100.0%	0.60
219.00	406,101	85.0%	0.60
502.00	28,952	6.1%	0.58

Temperatures and Pressures			
MS Source	230	Turbo Speed	100.0
MS Quad	150	Hi Vac	1.26e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	180	69.00	449,408	1,680,510



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	449,408	100.0%	70.10	4,967	1.1%
219.00	219.00	383,616	85.4%	220.00	16,456	4.3%
502.00	502.00	27,400	6.1%	503.00	2,753	10.0%

Air/Water Check: H2O ~4.2% N2 ~3.5% O2 ~0.4% CO2 ~0.3% N2/H2O ~84.3%

Column(1) Flow: 1.25 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 50509.047

Repeller maximum 35 volts using ion 219; Gain Factor 0.5051

Mass Gain Values(Scan Speed): 208(3) 214(2) 228(1) 250(0) 302(FS1) 301(FS2)

TARGET MASS:	50	69	131	219	414	502	1091
Amu Offset	136.9	136.9	136.9	136.9	136.9	136.9	136.9
Entrance Lens Offset	12.0	12.0	12.0	12.0	12.0	12.0	12.0