

TBI-FORENSIC SERVICES DIVISION PERFORMANCE VERIFICATION FORM

Instrument/Method to Verify:

Precious (US10710050/US63244922)

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

Laboratory: NCL ☐ KCL ☒ JCL ☐ Unit: Forensic Chemistry

Based on training and competency, the following analyst(s) are authorized by the Technical Leader to participate in this study:

Name Carolyn Simpson Title SAFS II Initials CNS

Completed: Carolyn Simpson 6/26/23

Name _____ Title _____ Initials _____

Completed:

Name _____ Title _____ Initials _____

Completed:

Verification of final review:

Unit Supervisor: Mollie Hood 7/11/23 Section Manager: Adam Gray 7/17/23

Unit Supervisor: _____ Section Manager: _____

Unit Supervisor: _____ Section Manager: _____

Regional Administrator: Kelvin Woodby 7/11/23 IT Manager: Matthew Buck 7/19/23

Regional Administrator: _____

Regional Administrator: _____

Quality Assurance Manager: chad johnson 07/17/23

By signing below, I have verified this study meets all requirements and I deem this procedure/instrument fit for the intended use:

Technical Leader: Brett Trotter 7/7/2023

All information must be submitted to the Quality Assurance Manager prior to the implementation of the procedure/instrument. If applicable, include training plan and competency testing schedule.

Validation Study for updating Precious to Windows 10

Tennessee Bureau of Investigation Knoxville Crime Lab

6-26-23

1. Purpose of validation

The purpose of this validation study is to verify the performance of Precious. This study will verify the methods, performance, and accuracy of identifications by comparative analysis. This is required as Precious received firmware updates, and a new computer, requiring a limited revalidation to demonstrate that it still produces acceptable data for casework.

2. Objectives

- a. Demonstrate the accurate operation of the gas chromatograph mass spectrometer after receiving firmware updates to the instrument and the computer being replaced.
- b. Demonstrate the ability of the MassHunter and Chemstation software to function as intended software to continue to function with the updated system software.

3. Setup and Procedures

Forensic chemistry MS identification methods were created with the same parameters as previously validated methods on this instrument before being updated.

Appropriate standards were run on each auto-sample method to demonstrate performance and consistency. Two different standards/standard mixes were run on each auto-sample method where appropriate. Other methods were verified by running the standards necessary for that method.

Various separate standard mixes were used depending on the method; one containing tramadol, 4-anilino-N-phenethylpiperidine (4-ANPP), heroin, para-fluorofentanyl and fentanyl. One similar containing xylazine, anilino-N-phenethylpiperidine (4-ANPP), heroin, para-fluorofentanyl and fentanyl. Another mix containing cocaine, hydrocodone, and pethidine was also used on methods where appropriate to compare. A buprenorphine standard was also run on the appropriate methods, as well as testosterone propionate, diazepam, sildenafil, GHB, delta 8-THC and delta 9-THC.

The spectra obtained from these standards were compared to library spectra and the chromatographs were compared to chromatographic data obtained before the update.

4. Results and Conclusion

Analysis of the standards run on Precious have consistently shown compliance with standard operating procedures in chapter 21. All methods have been utilized in the analysis of known drug standards. The data obtained from these standards is consistent with previously verified standards in the Knoxville forensic chemistry standard library. The instrument response was compared to older data taken from before the period of maintenance. The chromatography, peak shape, and separation all appear to be consistent to the data that the instrument was generating prior to the update.

5. Training and Competency

The instrument used to verify these methods is configured the same as the other existing instruments in the laboratory. There are no significant changes in instrumentation that would warrant an initial demonstration of proficiency for these methods.

6. Conclusions

After monitoring parameters specified in Forensic Chemistry Standard Operating Procedure found in chapter 21 and verifying the functionality of the methods with known drug standards, it has been demonstrated that Precious produced comparable results to previous instrument response and GCMS libraries. This confirms the correct operation of the updated firmware and software.

Materials

Computer:

Device PRECIOUS-KNOXFC
Processor 12th Gen Intel(R) Core(TM) i5-12500 3.00 GHz
Installed RAM 16.0 GB (15.7 GB usable)
Device ID DCC13A8C-89BD-40AE-922C-CCBA15C5432E
Product ID 00355-63303-88737-AAOEM
System type 64-bit operating system, x64-based processor
Pen and touch No pen or touch input is available for this display
Edition Windows 10 Pro
Version 22H2
Installed on 5/17/2023
OS build 19045.3086
Experience Windows Feature Experience Pack 1000.19041.1000.0

Productivity tools:

Enhanced Chemstation
F.01.03.2357

Agilent MassHunter Workstation:

Version 10.0.368

GC:

Agilent 6890N GC system
Serial: US10710050

MS:

Agilent 5975B
Serial: US63244922

Column:

MS: DB-1MS 128-0112, 12 meter, 0.20 mm ID, 0.33 μ m film thickness, max 360

Buprenorphine HCl

MEOH (Fisher lot# 197710 Bottle #2/4 exp. u/c)

(Sigma# SLBN0684V)

Made by LMM 9-8-22 exp. 9-8-23

P-MOM Retention Time Mix

CHCl₃ (ACROS lot# B0542909B Bottle #1/4 exp. u/c)

w/ DI H₂O + base cap NH₄OH (VWR BDH lot# 2014042806 exp. u/c)

Phentermine (Sigma# 074K1059)

Methamphetamine (Sigma# 071K1580)

Tramadol (Cayman# 0540757-37)

4-ANPP (Cayman# 0540831-18)

Heroin (Cayman# 0554235-10)

P-Fluorofentanyl (Cayman# 0541563-43)

Fentanyl (Cayman# 0530926-33)

Made by JS and SR 11/9/22 exp. 11/8/23

P-MOX Retention Time Mix

CHCl₃ (ACROS lot# B0542909B Bottle #1/4)

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

Phentermine (Sigma# 074K1059)

Methamphetamine (Sigma# 071K1580)

Xylazine (Cayman# 0471462-19)

Heroin (Cayman# 0559235-10)

Para-Fluorofentanyl (Cayman# 0541563-43)

Fentanyl (Cayman# 0549959-44)

4-ANPP (Cayman# 0540831-18)

Made by NAH 6/13/23 exp. 6/12/24

STD Mix Retention Time Mix

CHCl₃ (ACROS Fisher lot# B0542909B exp. u/c)

w/ DI H₂O + base cap NH₄OH (BDH lot# 2014042806 exp. u/c)

Pethidine (S.B. Penick# 413NMN-027)

Cocaine (Sigma# 69H1240)

Hydrocodone (Cayman Chem# 0524561-22-STD 1/2)

Hydrocodone (Cayman Chem# 0524561-22-STD 2/2)

Made by LMM 5/19/23 exp. 5/19/24

GCIR Standard Mix Retention Time Mix

CHCl₃ (ACROS lot# B0542909B Bottle ¼ exp. u/c)

W/ DI H₂O cap + NH₄OH (BDH 3014-500 MLP, lot# 2014061276 exp. u/c)

Amphetamine (Sigma# 79H0603)

Methamphetamine (Sigma# 50H02161)

Phentermine HCl (Sigma# 074K1059)

Made by ZJ 2/2/23 exp. 2/1/24

Testosterone Propionate

MeOH (Fisher lot# 223204 exp. u/c)

(Sigma# 034K0695)

Made by CES 5/24/23 exp. 5/24/24

Diazepam

MeOH (Fisher lot# 211779 exp. u/c)

(Sigma# 105F0451)

Made by LMM 3/3/23 exp. 3/3/24

Delta 9 THC

MEOH (from ampule^2)

Cerilliant/FE (#08221804)

Made by JDG and LMM 8/22/19 exp. 9/30/23

Delta 8 THC

MEOH

(Cayman# 653352)

Made by CNS 6/14/24 exp. 7/14/25

Sildenafil

MEOH (Fisher lot# 217364 Bottle 4/4)

(Cayman# 0464768-1)

Made by CNS 6/15/23 exp. 6/14/24

GHB Standard

MEOH (Fisher lot# 217364 Bottle 4/4)

(Sigma# 089H3410)

Made by CNS 6/14/23 exp. 6/14/24

**GC and GC/MS
methods**

Gas Chromatography /Mass Spectrometry methods

Auto-sample Injection	
AMINE	80-160°C for 8.5 minutes
BENZOMS	210-280°C for 7.0333 minutes
BUPMS	240-280°C for 11.5 minutes
CFMS	150°C for 4 minutes
DRUG	80-280°C for 14.667 minutes
DRUGLC	80-280°C for 14.667 minutes
GHB	80-280°C for 14.667 minutes (solvent delay off)
OPIATE	200-280°C for 6.6667 minutes
STEROID	70-280°C for 25.033 minutes
THCCFMS	240-280°C for 4.6667 minutes
THCMS	200-240°C for 8 minutes
XLDRUGS	70-299°C for 28.058 minutes

method	standard name	drugs in mixtures	RT
AMINE	GCIR MIX	amphetamine	2.825
		phentermine	3.326
		methamphetamine	3.655
BENZOMS	DIAZEPAM STD	diazepam	2.254
	STD MIX	cocaine	1.672
		hydrocodone	2.28
BUPMS	BUPRENORPHINE STD	buprenorphine	5.547
	STD MIX	hydrocodone	0.226
DRUG	BUPRENORPHINE STD	buprenorphine	12.981
	GCIR STD MIX	amphetamine	2.755
		phentermine	3.062
		methamphetamine	3.239
	P-MOX	phentermine	3.052
		methamphetamine	3.227
		xylazine	6.718
		4-ANPP	8.234
		heroin	8.234
		para-fluorofentanyl	8.851
		fentanyl	8.952
		pethidine	6.02
	STD MIX	cocaine	7.517
		hydrocodone	8.225
		pethidine	5.992
	STD MIX (DILUTED)	cocaine	7.486
		hydrocodone	8.177
		pethidine	4.892
	STD MIX (DILUTED)	cocaine	6.373
		hydrocodone	7.061
GHB	GHB STD	GHB	0.856
OPIATE	STD MIX	cocaine	2.433
		hydrocodone	3.153
STEROID	BUPRENORPHINE STD	buprenorphine	15.915
	P-MOM	phentermine	2.937
		methamphetamine	3.15
		tramadol	9.241
		4-ANPP	11.219
		heroin	11.77
		fluorofentanyl	11.966
		fentanyl	12.068
	TESTOSTERONE PROPINATE STD	testosterone propionate	12.432
THCMS	DELTA 8-THC STD	delta 8-THC	5.25
	DELTA 9-THC STD	delta 9-THC	5.414
XLDRUGS	P-MOX STD	phentermine	2.592
		methamphetamine	2.778
		xylazine	10.012
		4-ANPP	11.481
		heroin	11.853
		fluorofentanyl	11.963
		fentanyl	12.034
	SILDENAFIL STD	sildenafil	18.189

METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\AMINE.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\AMINE.M
Wed Jun 21 09:42:38 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 8.5 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 80 °C
Hold Time 2 min
Post Run 50 °C
Program
#1 Rate 10 °C/min
#1 Value 125 °C
#1 Hold Time 0.5 min
#2 Rate 35 °C/min
#2 Value 160 °C
#2 Hold Time 0.5 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
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 1
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
Solvent Wash Mode	A, B

Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B

ALS Errors	Pause for user interaction
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Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 10.325 psi
Gas Saver	On 20 After 2 min mL/min
Split Ratio	40 :1
Split Flow	44 mL/min
Liner	A Liner has not been selected.

Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	110.37 mL/min
Liner	A Liner has not been selected.

Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C

Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.1 mL/min
Post Run	0.969 mL/min

Column Information	Agilent 128-0112: DB-1MS
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DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm
In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	80 °C
Pressure	10.325 psi
Flow	1.1 mL/min
Average Velocity	61.301 cm/sec
Holdup Time	0.32626 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	80 °C
Pressure	6.7158 psi
Flow	2.2075 mL/min
Average Velocity	44.155 cm/sec
Holdup Time	0.56619 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Aux EPC 5 He
Pressure
Setpoint
(Initial)
Post Run

Off
0 psi
0 psi

Signals
Signal #1: Front Signal
Description
Details
Save
Data Rate
Dual Injection Assignment
Zero Signal

Front Signal
Front Signal (ECD)
Off
50 Hz
Front Sample
Zero @ 0 min

Signal #2: Back Signal
Description
Details
Save
Data Rate
Dual Injection Assignment
Zero Signal

Back Signal
Back Signal (FID)
Off
20 Hz
Back Sample
Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610 : EMISSION
70.347 : ENERGY
28.400 : REPELLER
79.718 : IONFOCUS
41.500 : ENTRANCE_LENS
1529.412 : EMVOLTS

1447.059 : Actual EMV
1.03 : GAIN FACTOR

1825.000 : AMUGAIN
130.375 : AMUOFFSET
1.000 : FILAMENT
0.000 : DCPOLARITY
15.059 : ENTLENSOFFSET
-598.000 : MASSGAIN
-35.000 : MASSOFFSET

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\AMINE.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 09:42:40 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\AMINE.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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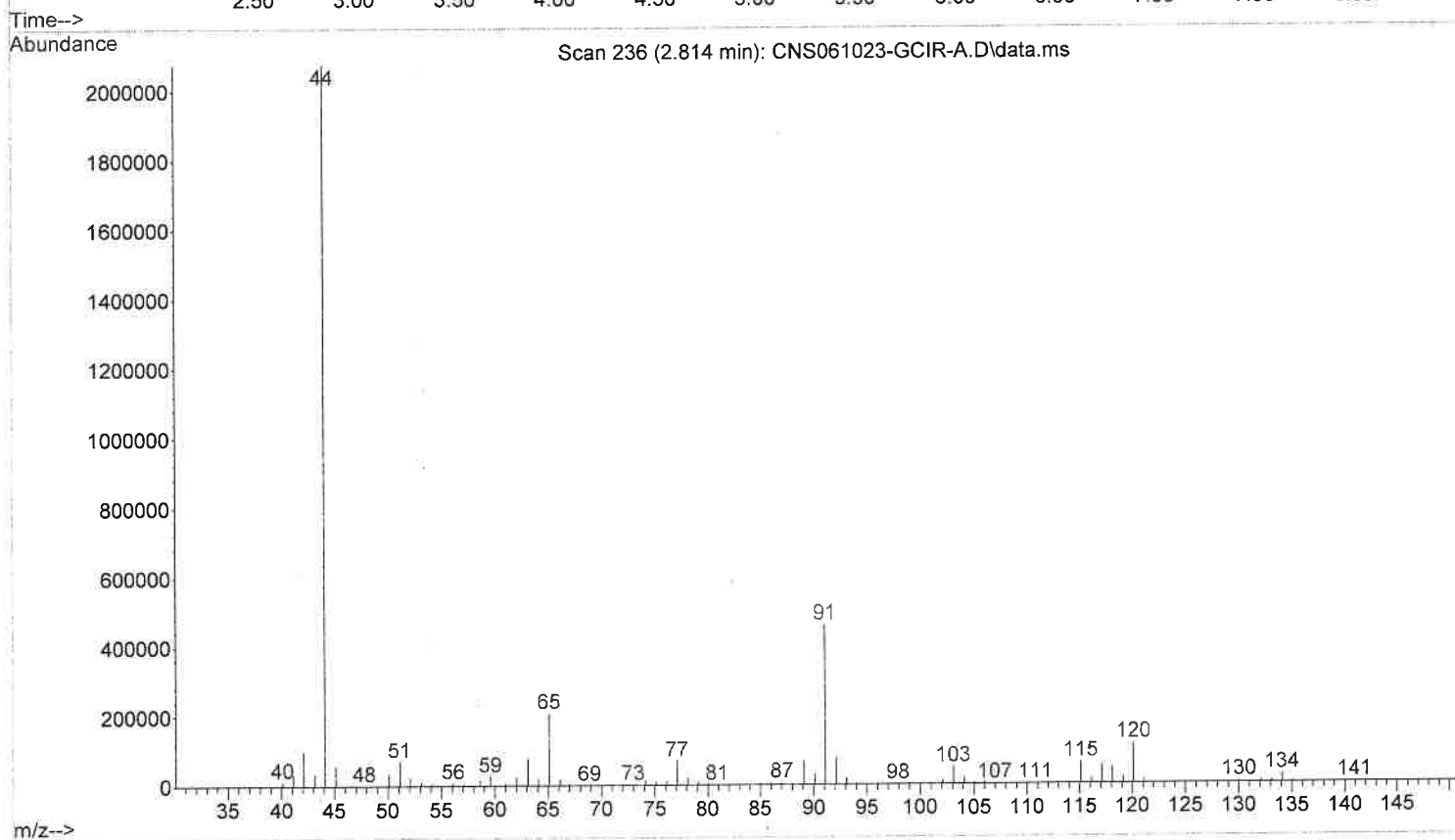
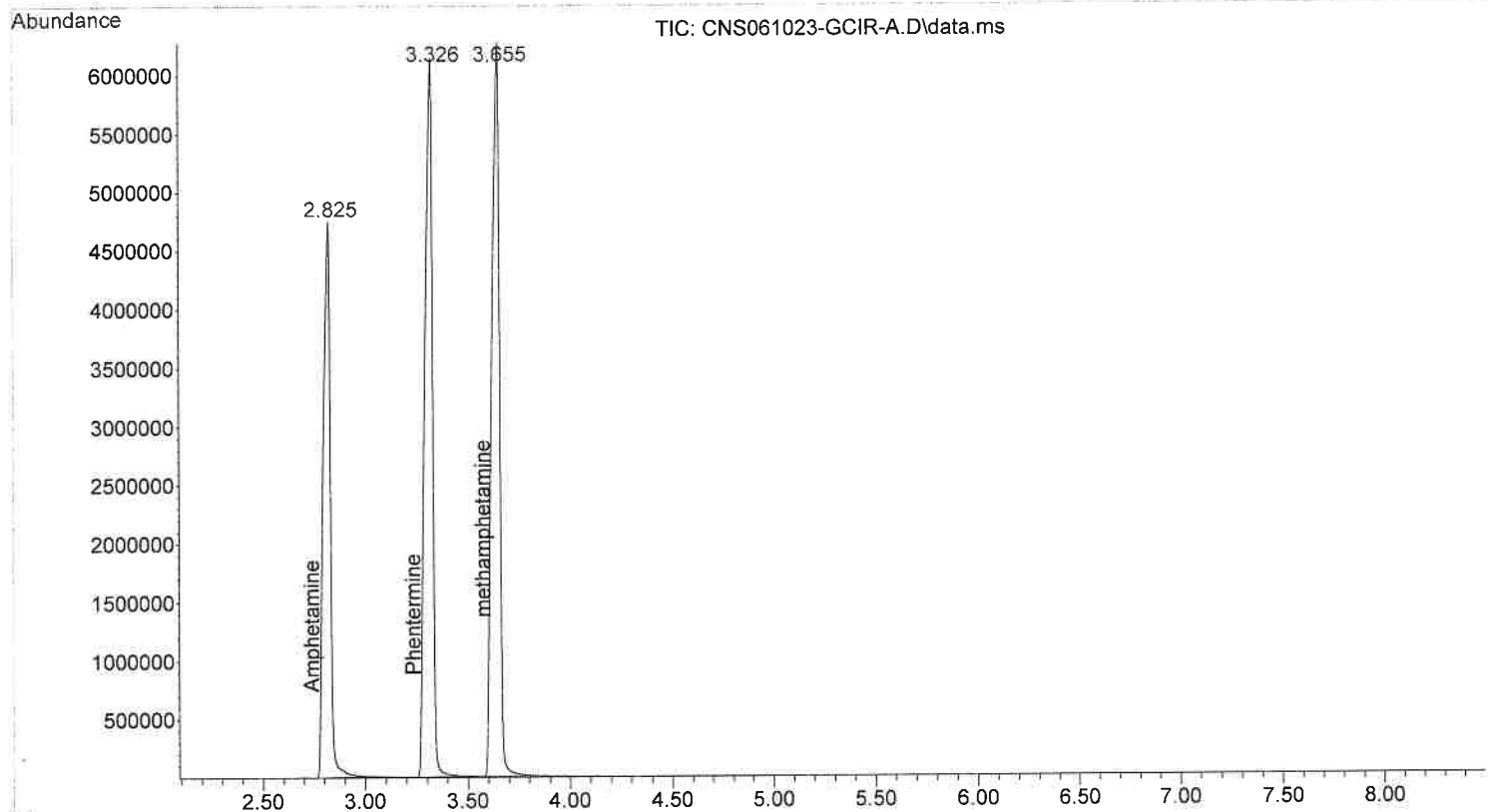
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

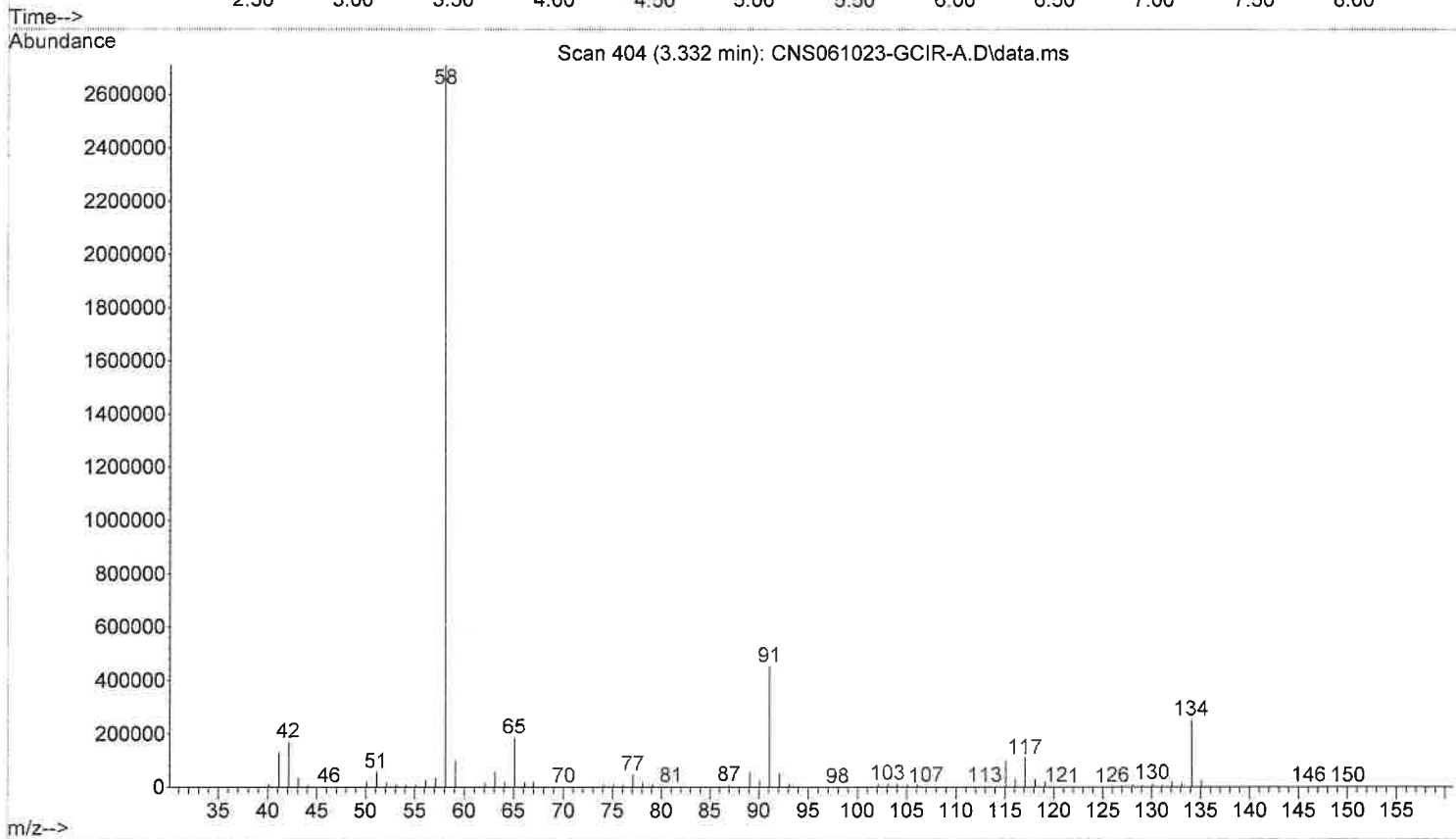
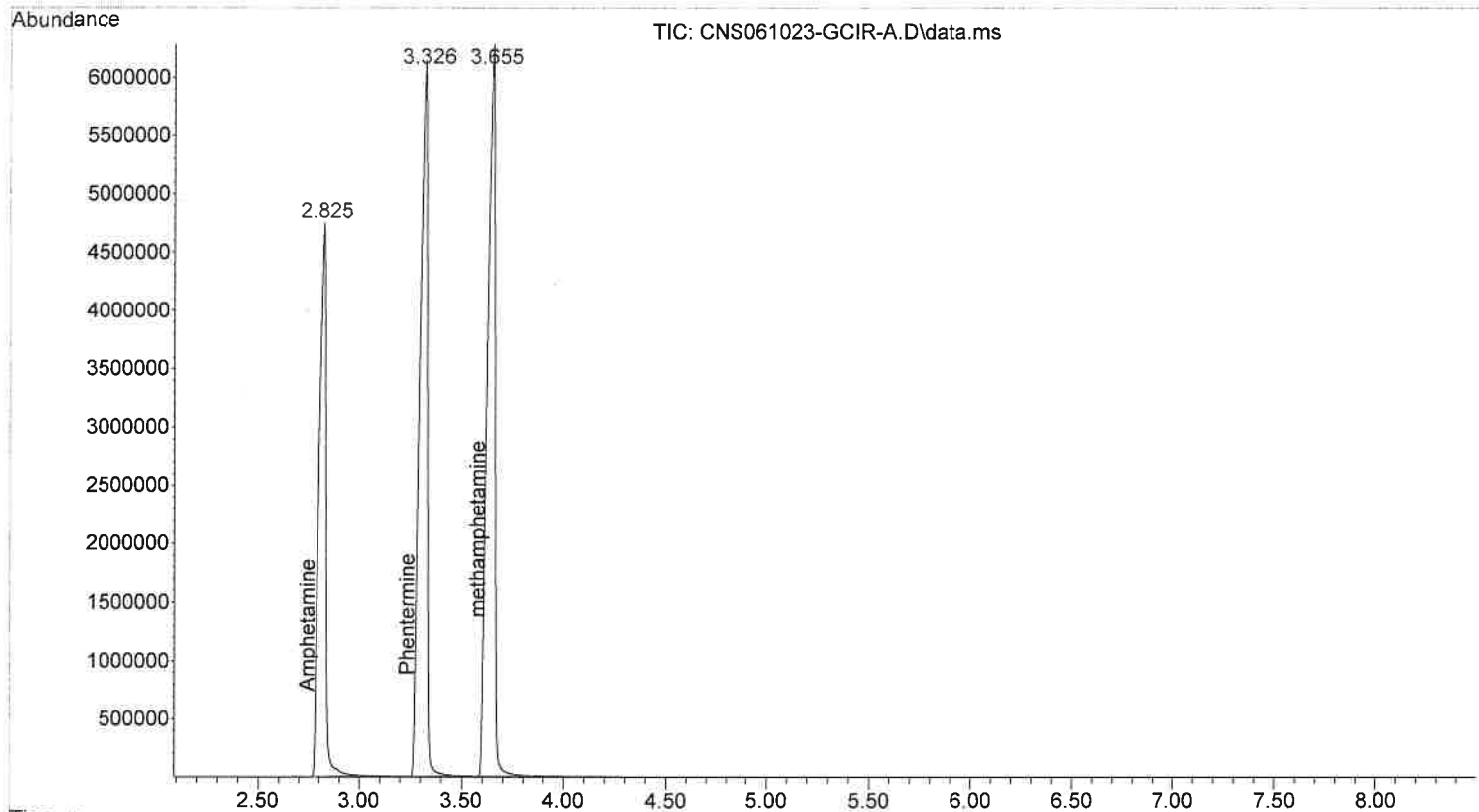
Self-Cleaning Ion Source Parameters

Mode	No Cleaning
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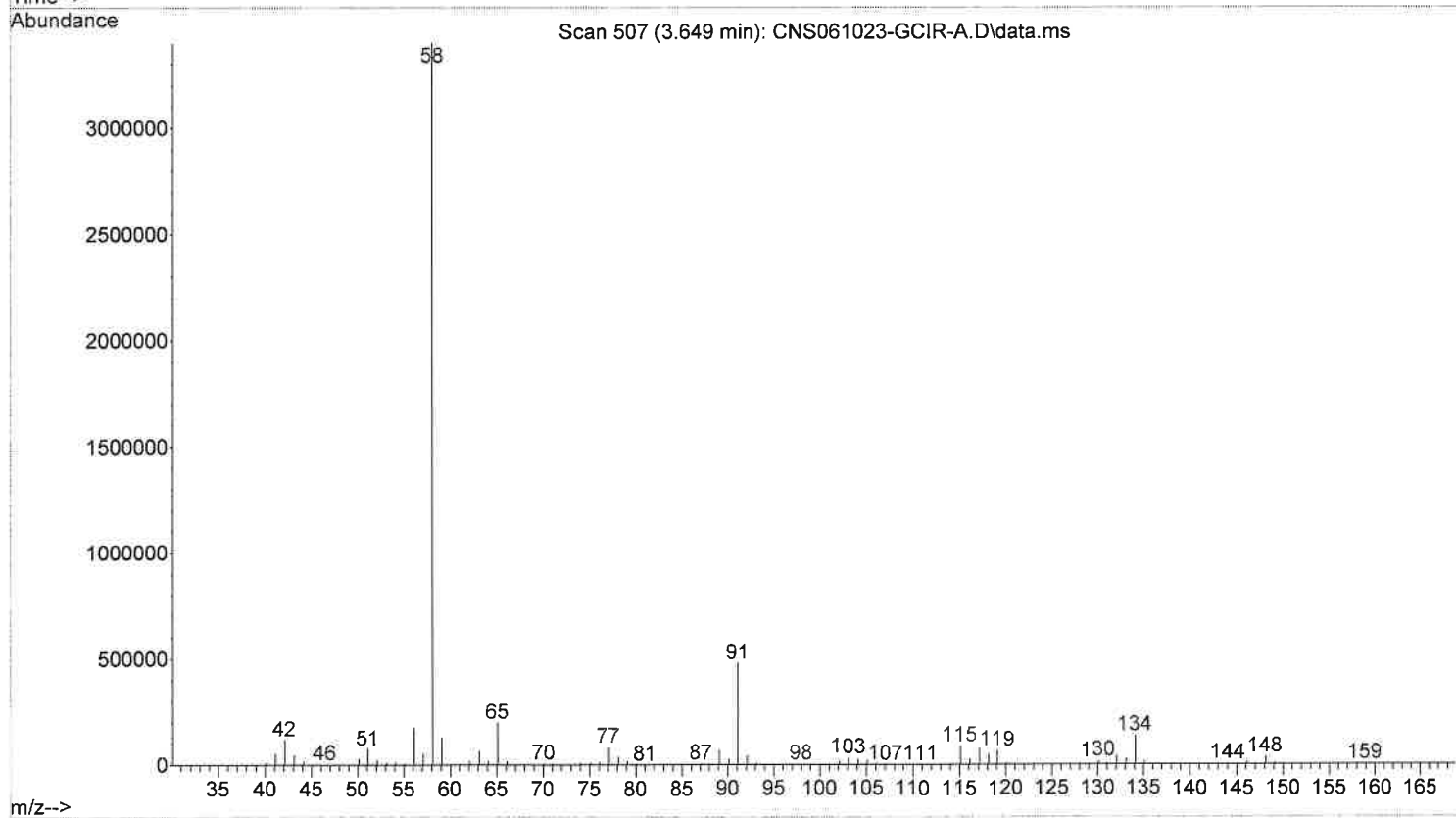
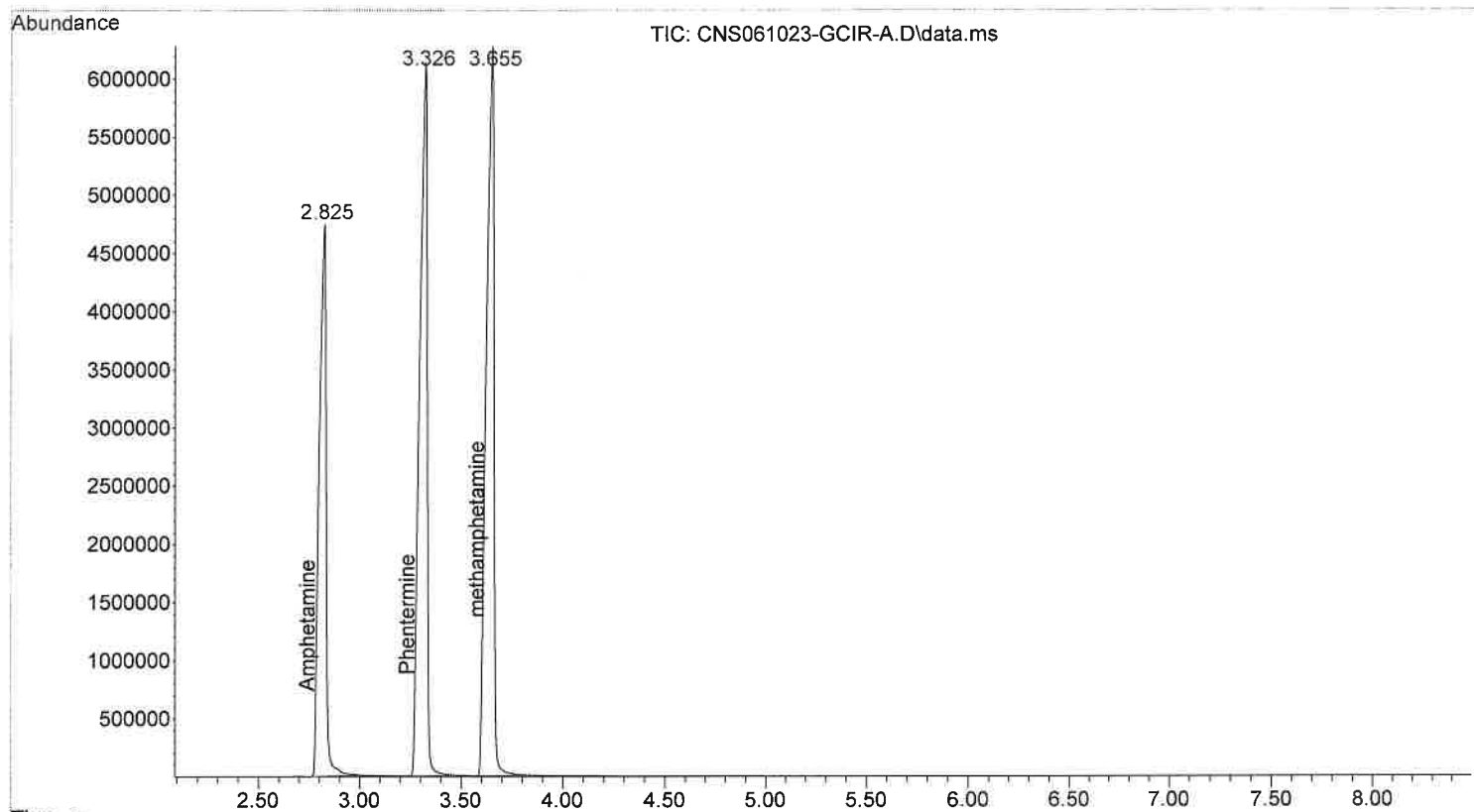
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061023-GCIR-A.D
Operator : KLAB
Acquired : 10 Jun 2023 09:39 using AcqMethod AMINE.M
Instrument : Precious
Sample Name: GCIR MIX in CHCl3
Misc Info :
Vial Number: 5



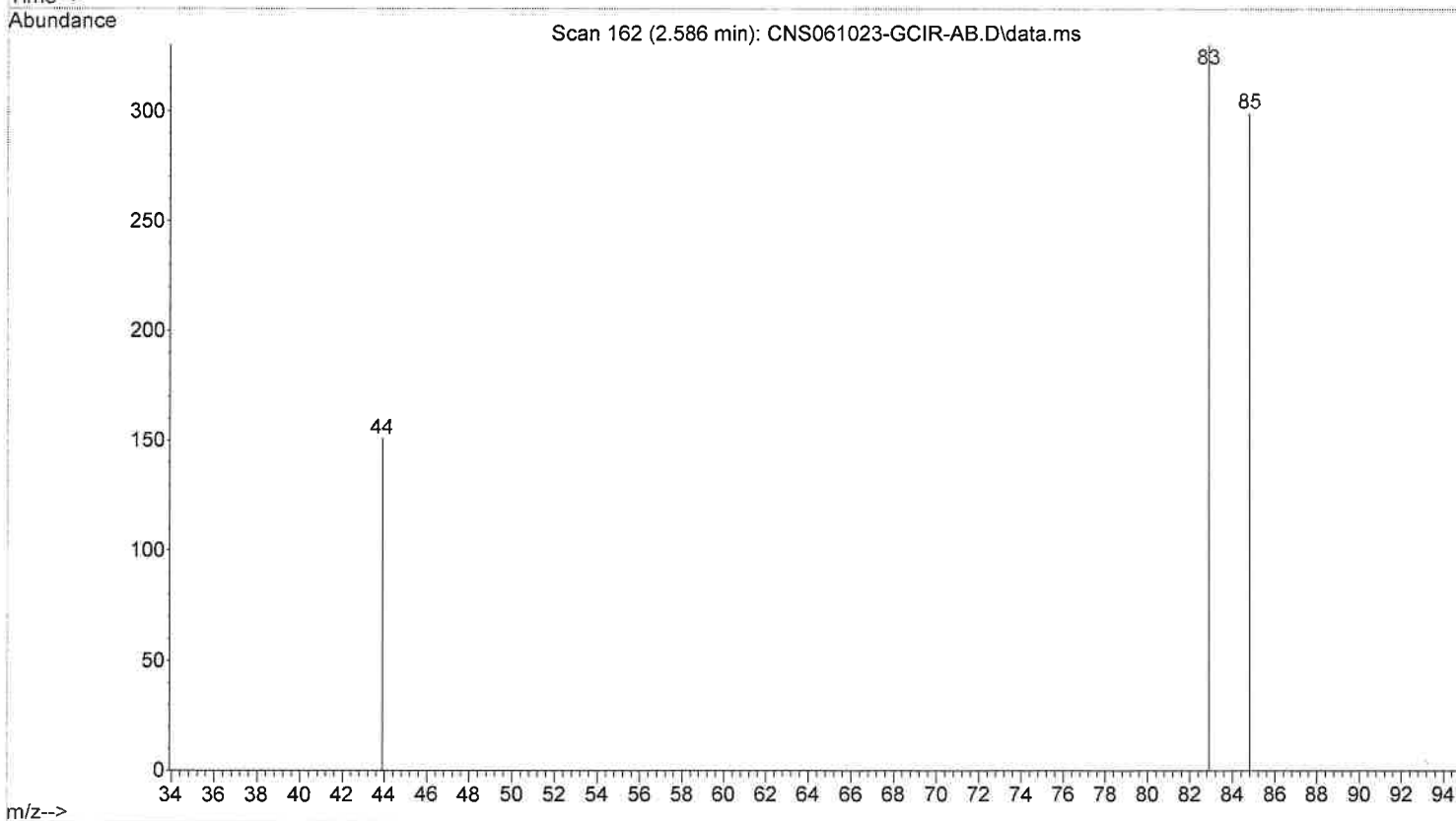
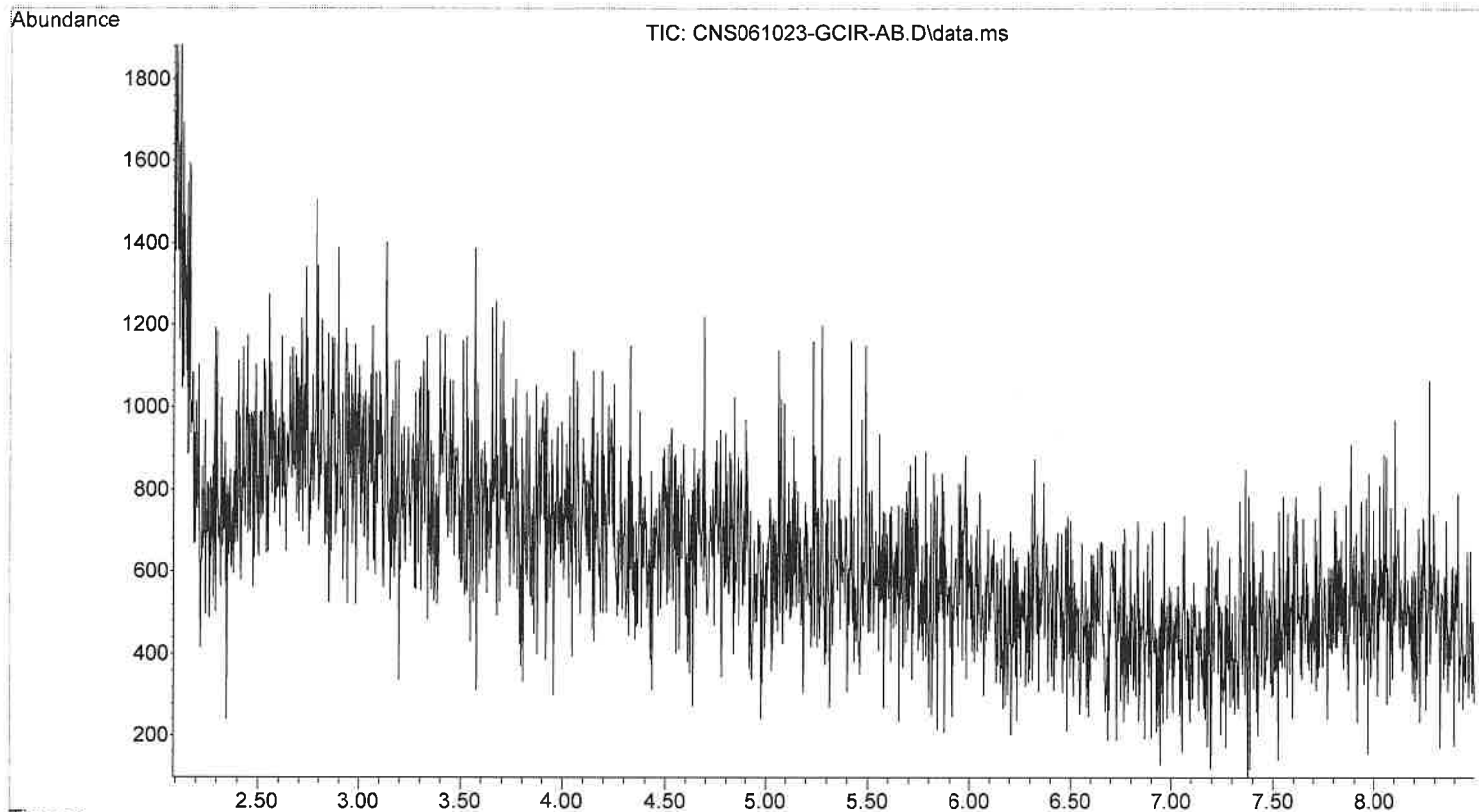
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061023-GCIR-A.D
Operator : KLAB
Acquired : 10 Jun 2023 09:39 using AcqMethod AMINE.M
Instrument : Precious
Sample Name: GCIR MIX in CHCl3
Misc Info :
Vial Number: 5



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061023-GCIR-A.D
Operator : KLAB
Acquired : 10 Jun 2023 09:39 using AcqMethod AMINE.M
Instrument : Precious
Sample Name: GCIR MIX in CHCl3
Misc Info :
Vial Number: 5



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061023-GCIR-AB.D
Operator : KLAB
Acquired : 10 Jun 2023 09:29 using AcqMethod AMINE.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK FOR GCIR MIX
Misc Info :
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\BENZOMS.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\BENZOMS.M

Wed Jun 21 09:47:07 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 7.0333 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 210 °C
Hold Time 0.5 min
Post Run 50 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 4.2 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
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 2
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 19.77 psi
Gas Saver	On 20 After 2 min mL/min
Split Ratio	35 :1
Split Flow	43.147 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	65.19 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.2328 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS
DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	210 °C
Pressure	19.77 psi
Flow	1.2328 mL/min
Average Velocity	68.232 cm/sec
Holdup Time	0.29312 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	210 °C
Pressure	6.7158 psi
Flow	1.3038 mL/min
Average Velocity	35.679 cm/sec
Holdup Time	0.70069 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\BENZOMS.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No

Printer: Yes

File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50

C:\Database\Cayman052218.L 50

C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No

Printer: Yes

File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 09:47:08 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\BENZOMS.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
Solvent delay (min)	1.00
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
1.00	40	550	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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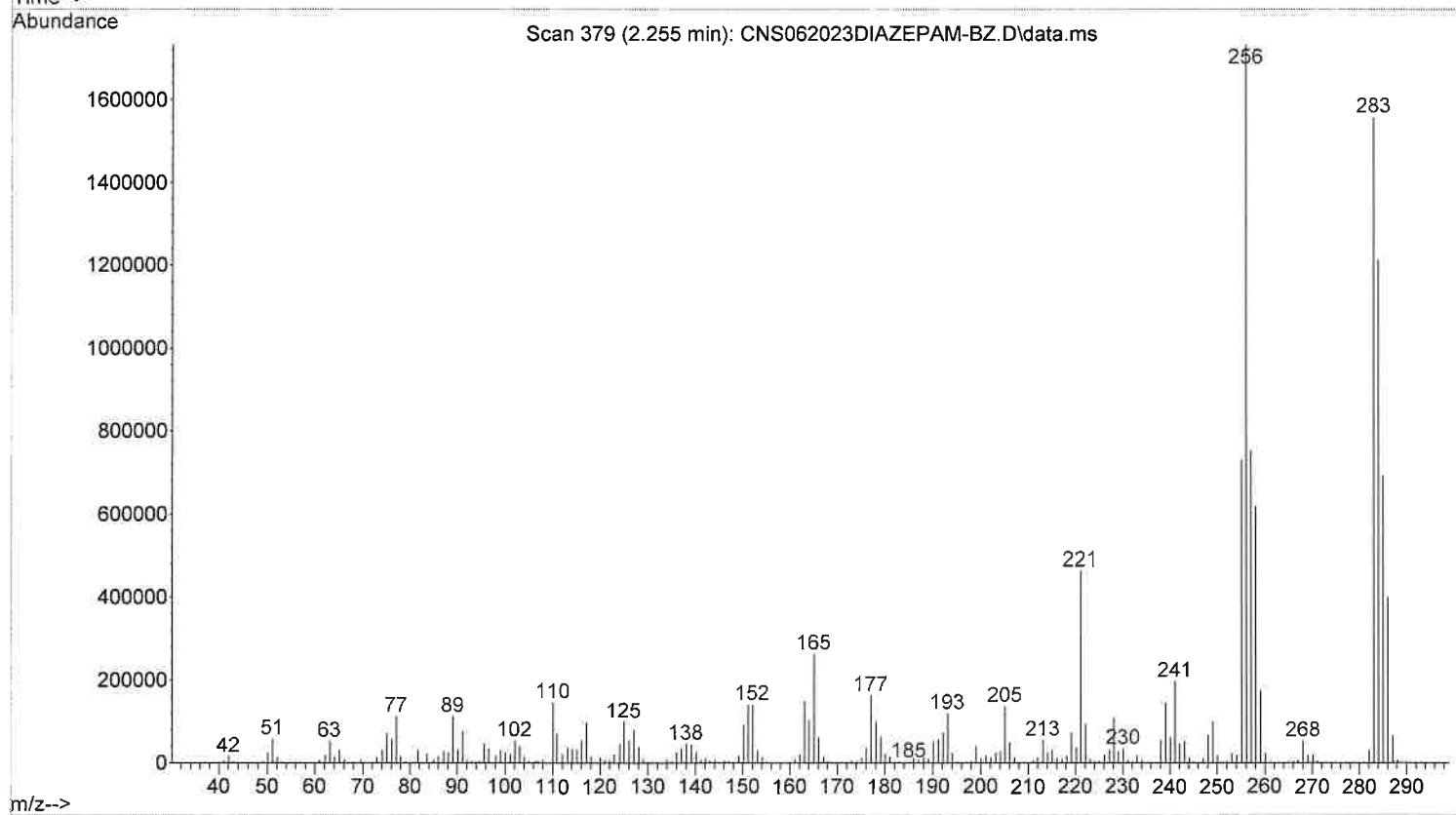
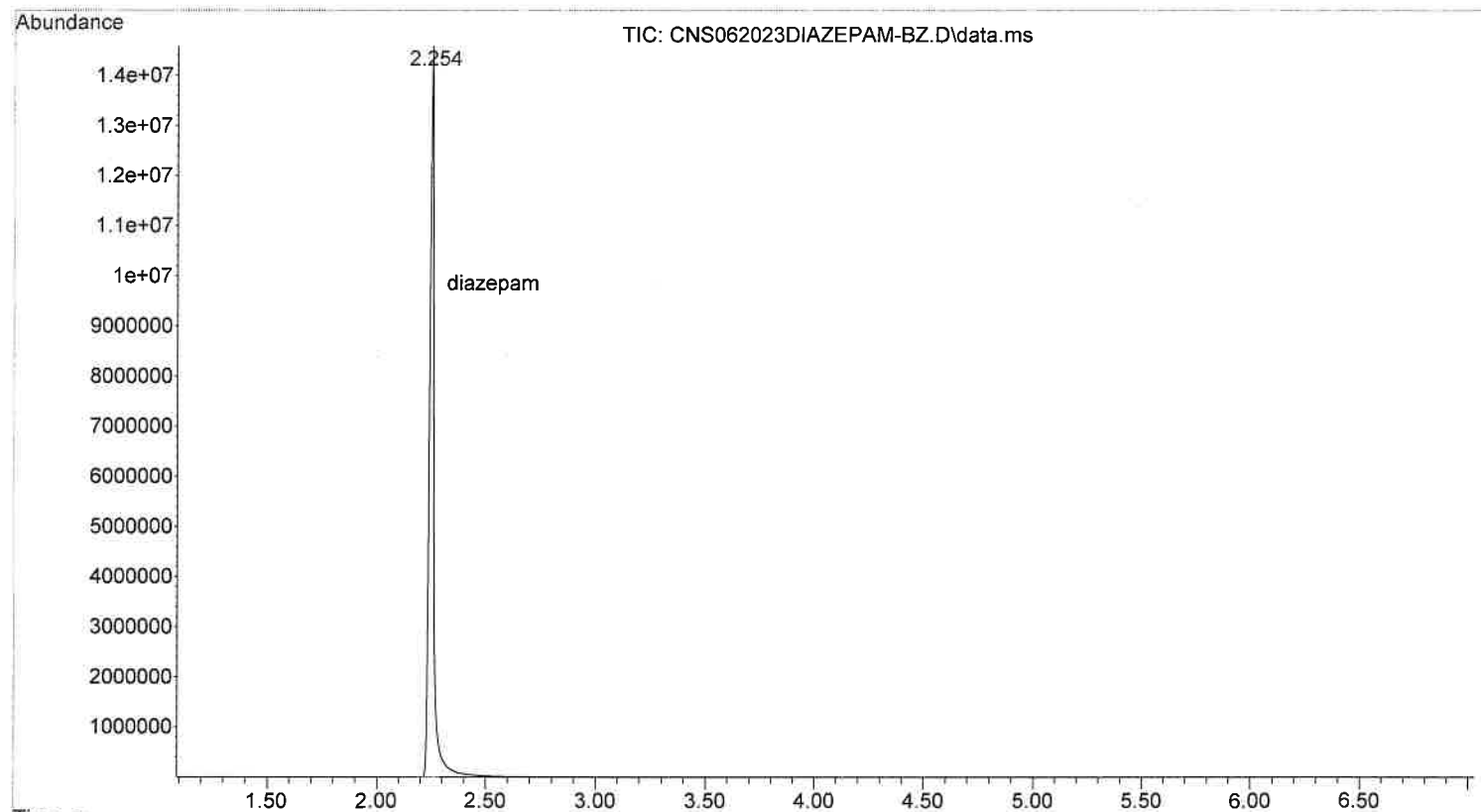
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

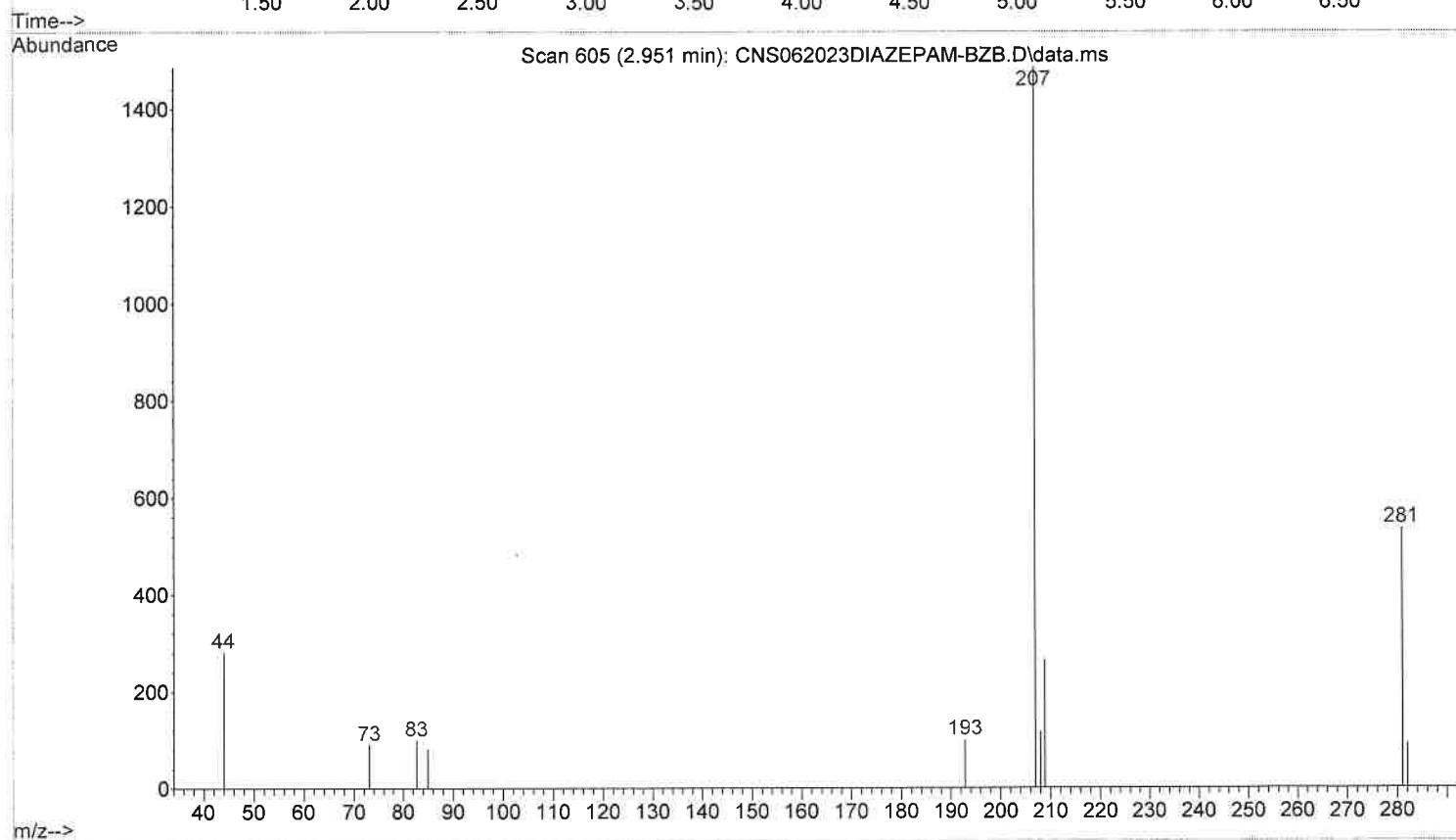
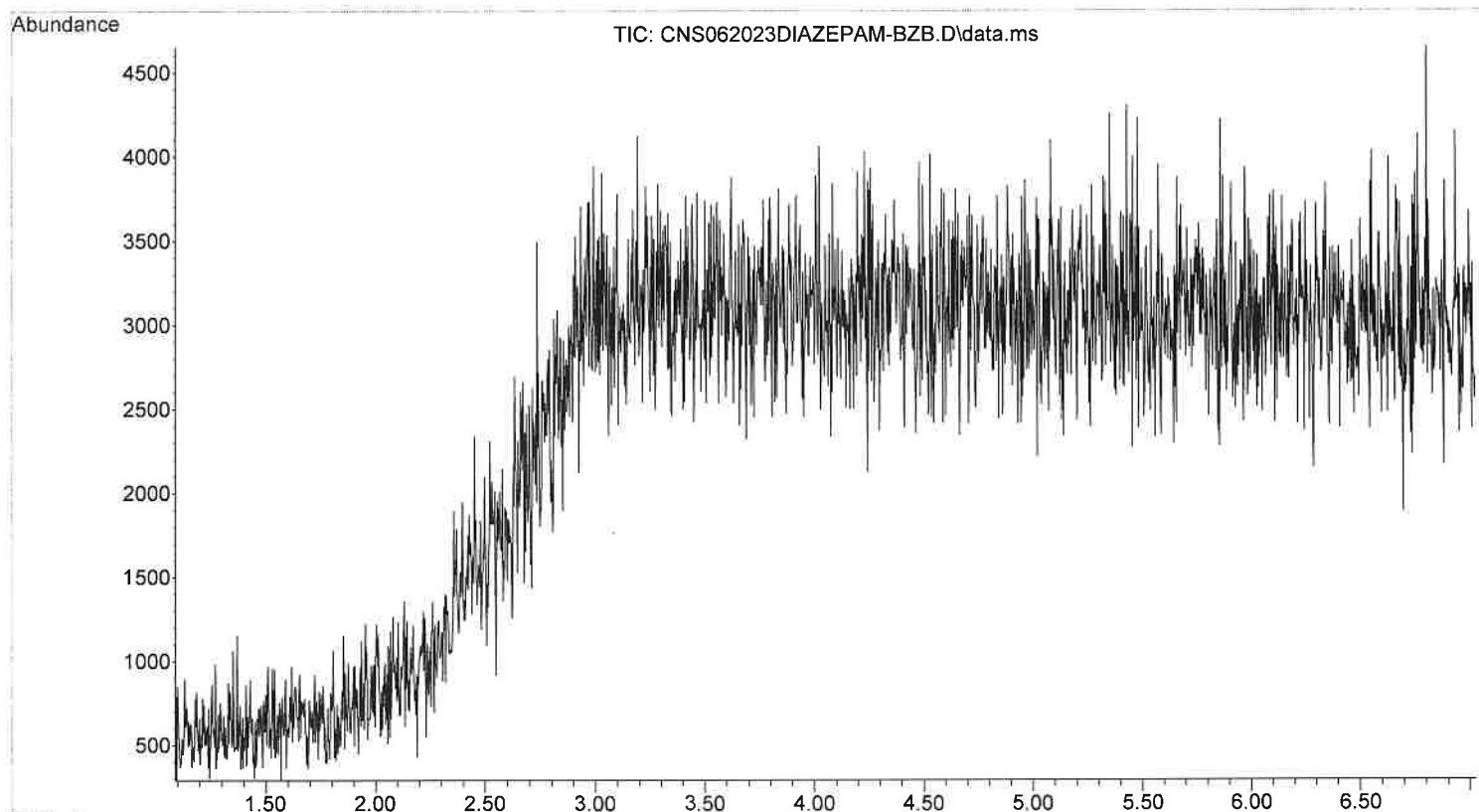
Self-Cleaning Ion Source Parameters

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

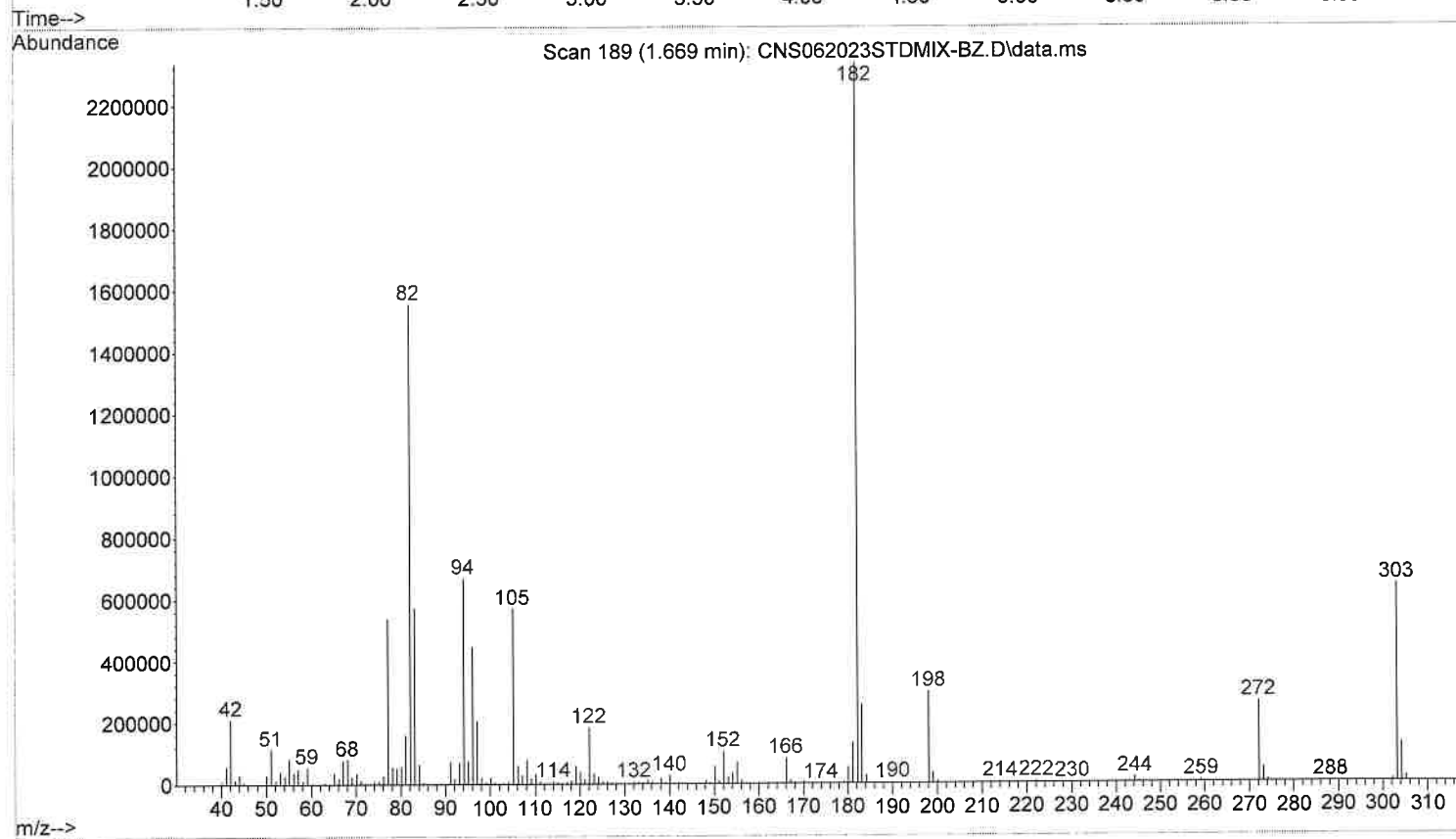
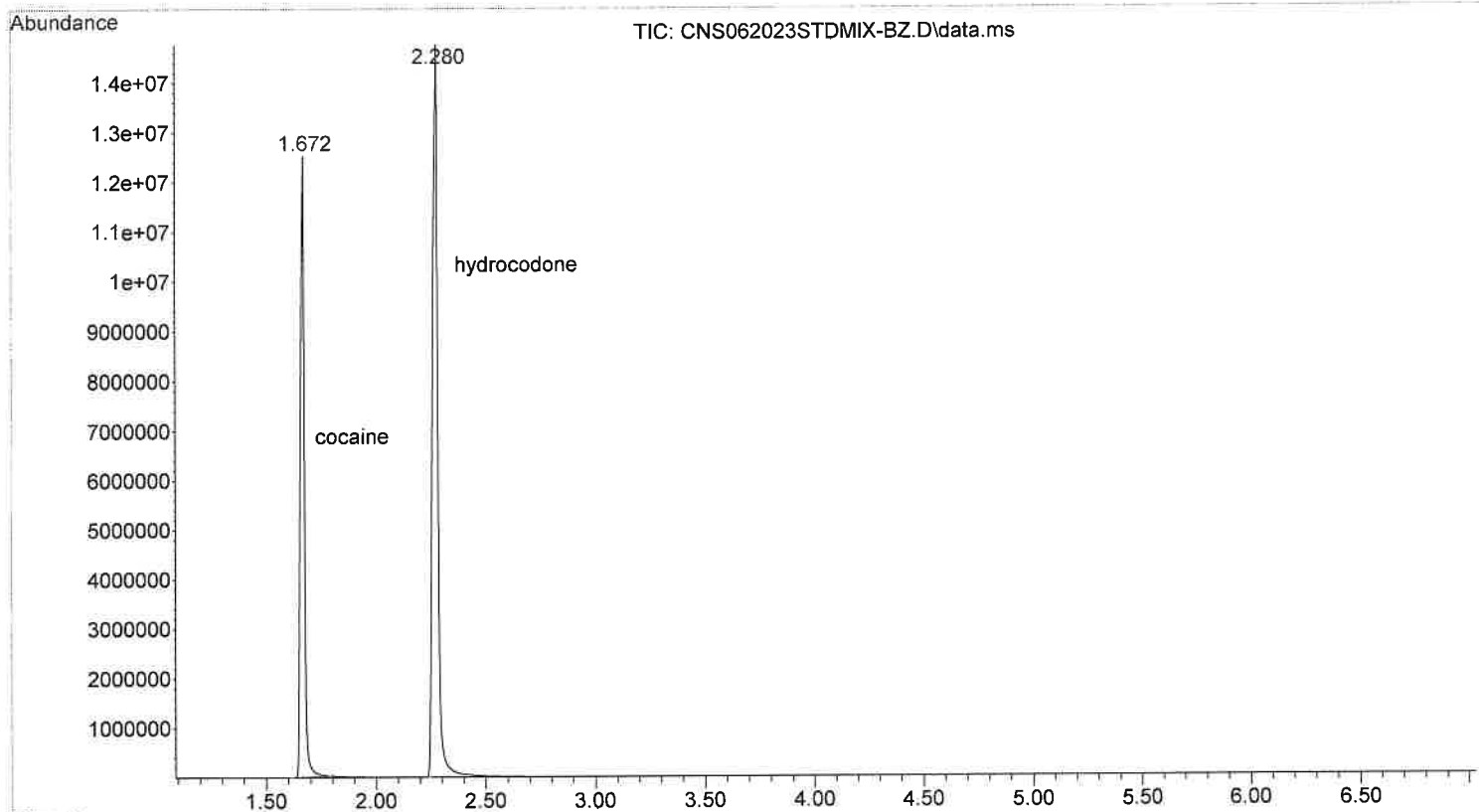
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DIAZEPAM-BZ.D
Operator : KLAB
Acquired : 20 Jun 2023 15:47 using AcqMethod BENZOMS.M
Instrument : Precious
Sample Name: DIAZEPAM STD
Misc Info : MeOH
Vial Number: 10



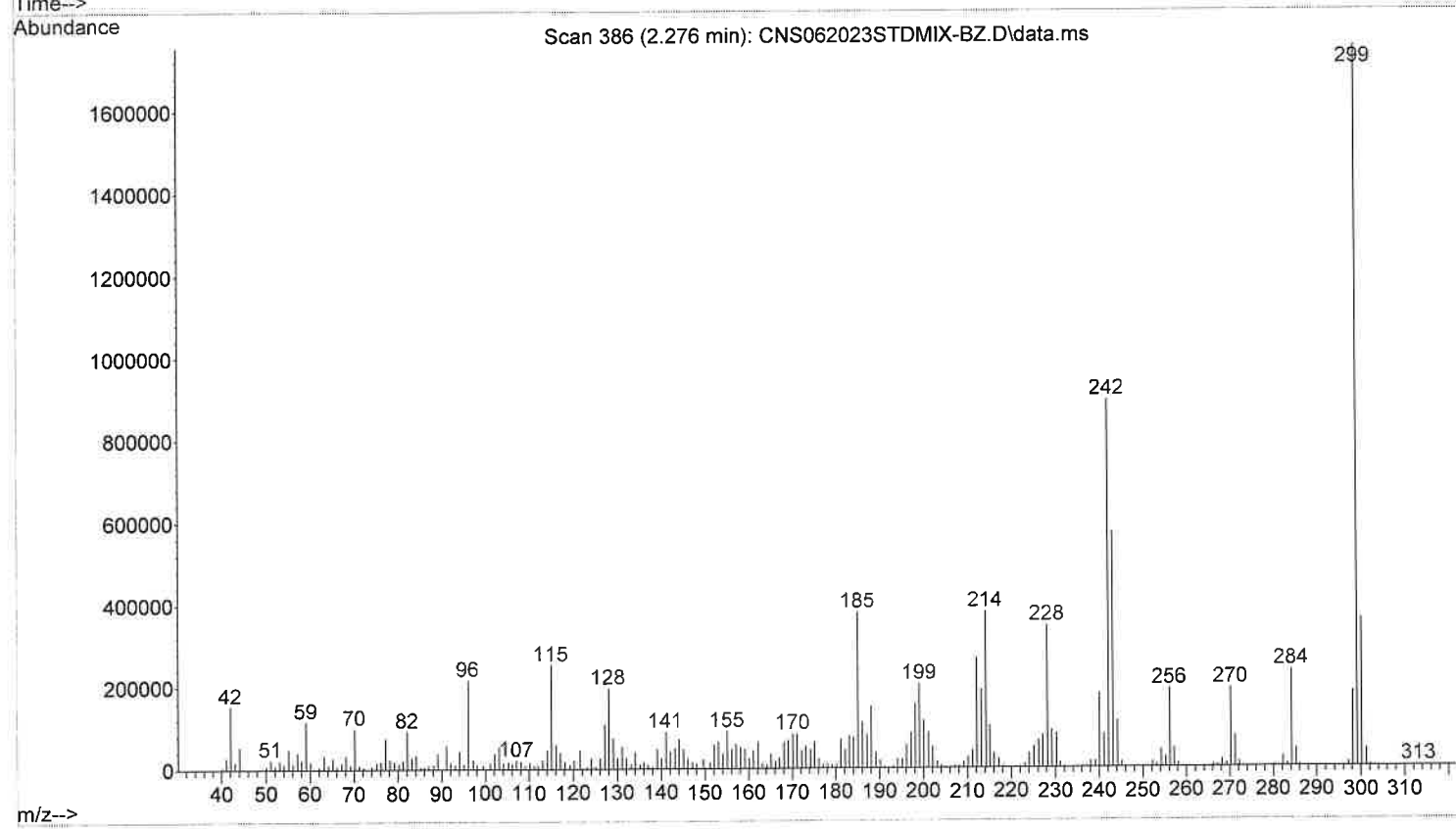
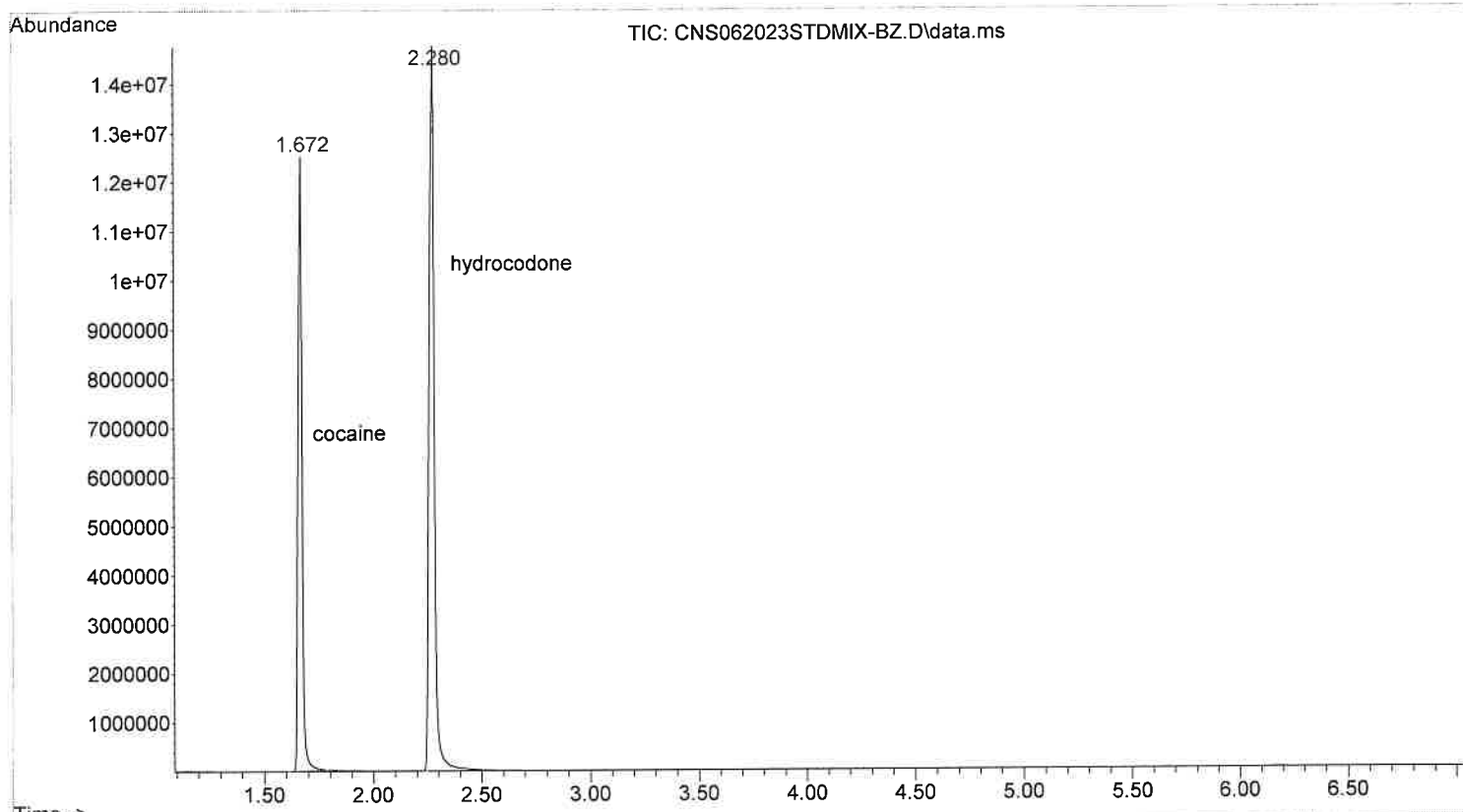
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DIAZEPAM-BZB
... .D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 15:38 using AcqMethod BENZOMS.M
Sample Name: METHANOL BLANK
Misc Info : DIAZEPAM STD



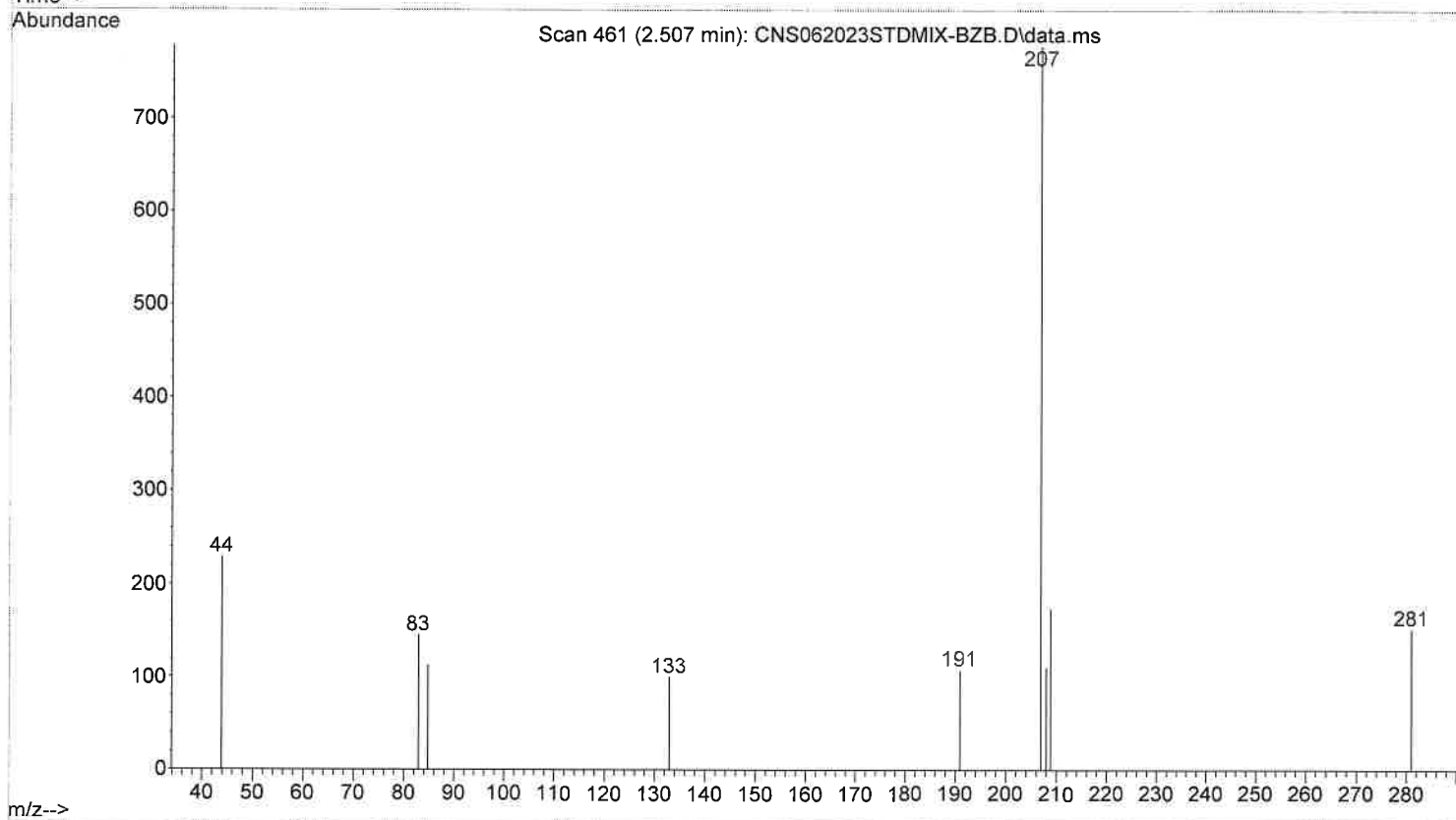
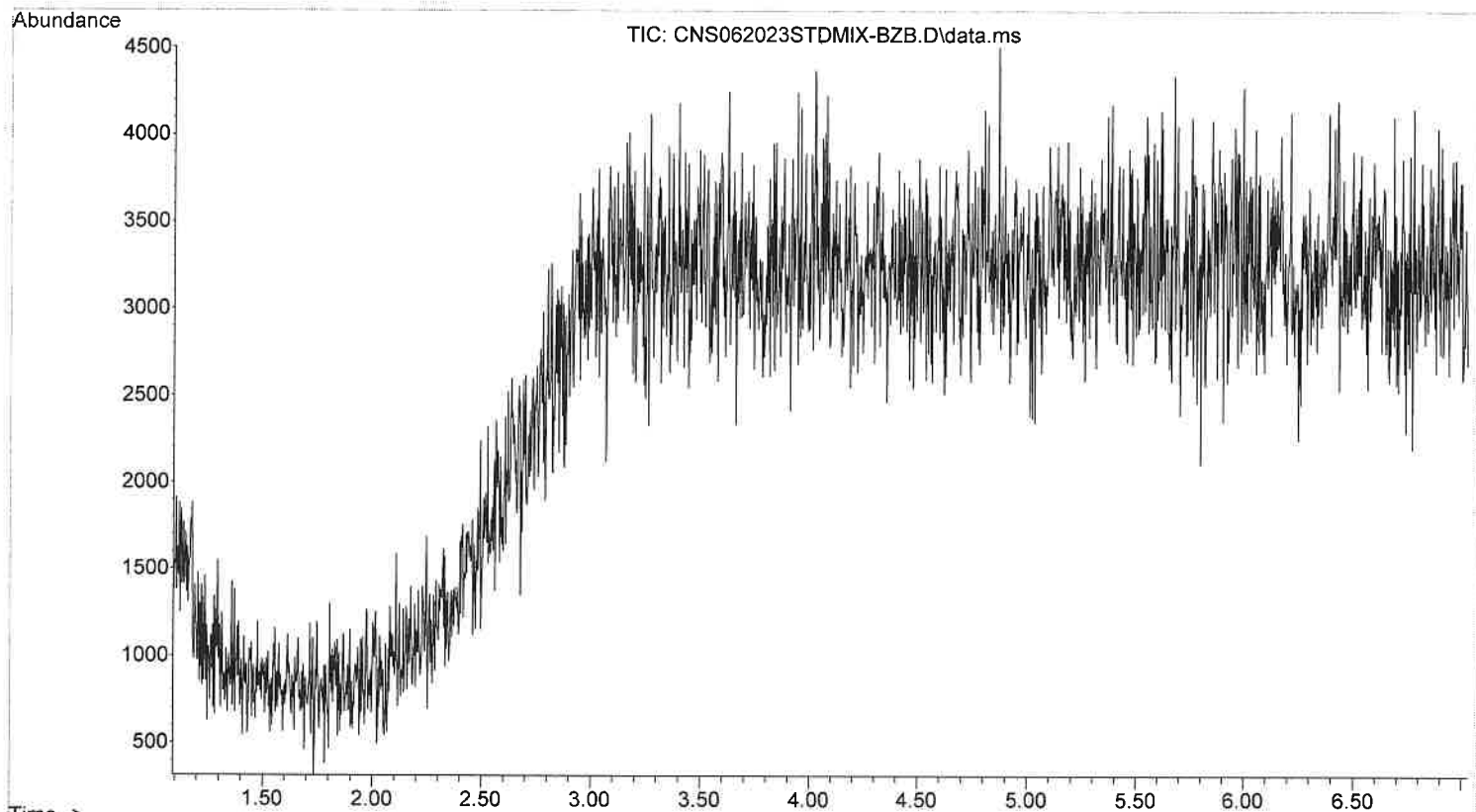
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STDMIX-BZ.D
Operator : KLAB
Acquired : 20 Jun 2023 18:38 using AcqMethod BENZOMS.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STDMIX-BZ.D
Operator : KLAB
Acquired : 20 Jun 2023 18:38 using AcqMethod BENZOMS.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STD MIX-BZB.D
Operator : KLAB
Acquired : 20 Jun 2023 18:29 using AcqMethod BENZOMS.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\BUPMS.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\BUPMS.M
Thu Jun 22 08:53:07 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 11.5 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 240 °C
Hold Time 0 min
Post Run 50 °C
Program
#1 Rate 40 °C/min
#1 Value 280 °C
#1 Hold Time 10.5 min

Equilibration Time 0.5 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 2
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	
	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 16.58 psi
Gas Saver	On 15 After 2 min mL/min
Split Ratio	30 :1
Split Flow	27.522 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	58.915 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.9174 mL/min
Post Run	0.969 mL/min
Column Information	
DB-1ms	Agilent 128-0112: DB-1MS
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	240 °C
Pressure	16.58 psi
Flow	0.9174 mL/min
Average Velocity	59.432 cm/sec
Holdup Time	0.33652 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	240 °C
Pressure	6.7158 psi
Flow	1.1783 mL/min
Average Velocity	34.247 cm/sec
Holdup Time	0.72999 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\BUPMS.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Thu Jun 22 08:53:08 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\BUPMS.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
Solvent delay (min)	1.00
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
1.00	40	550	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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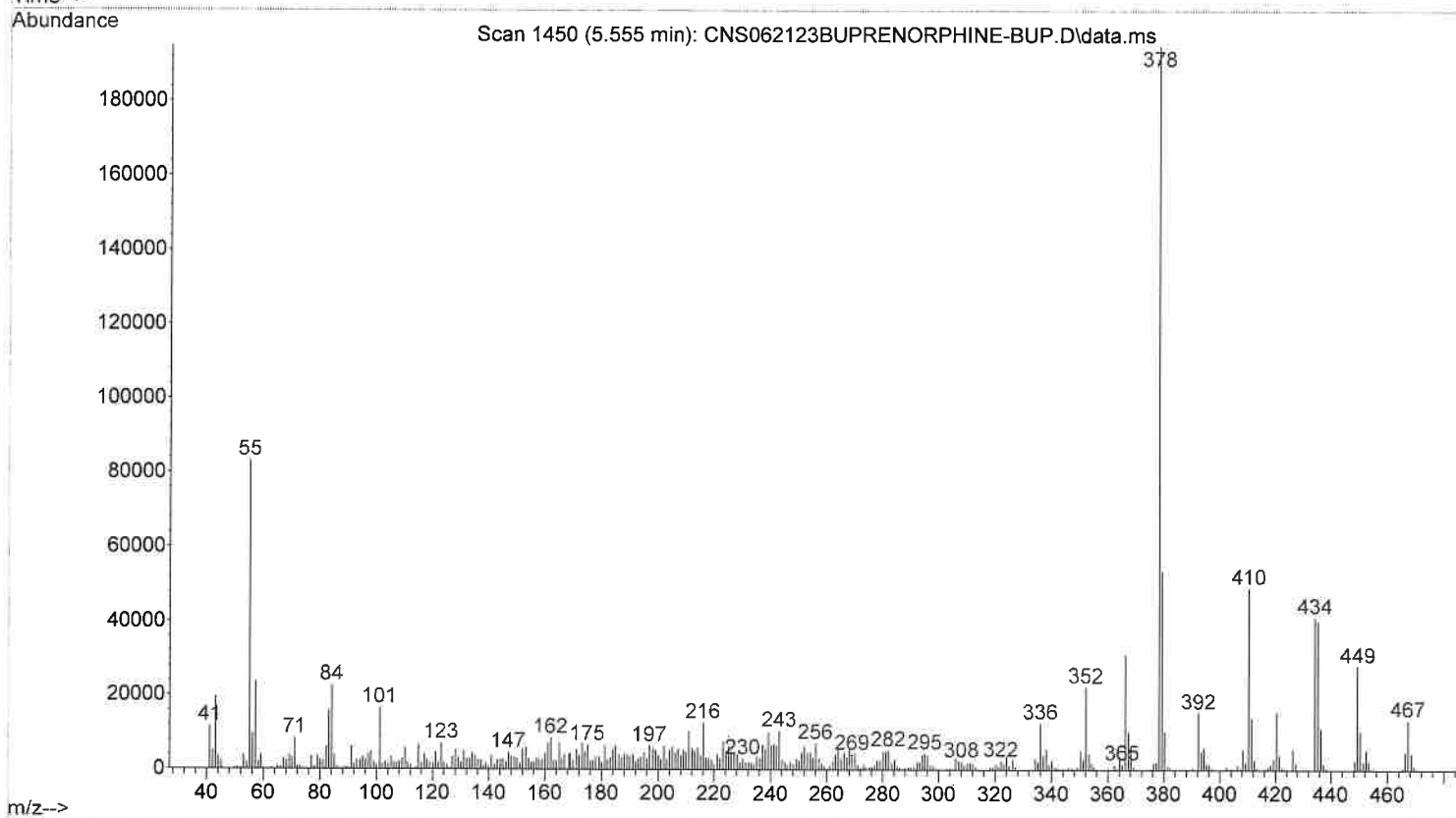
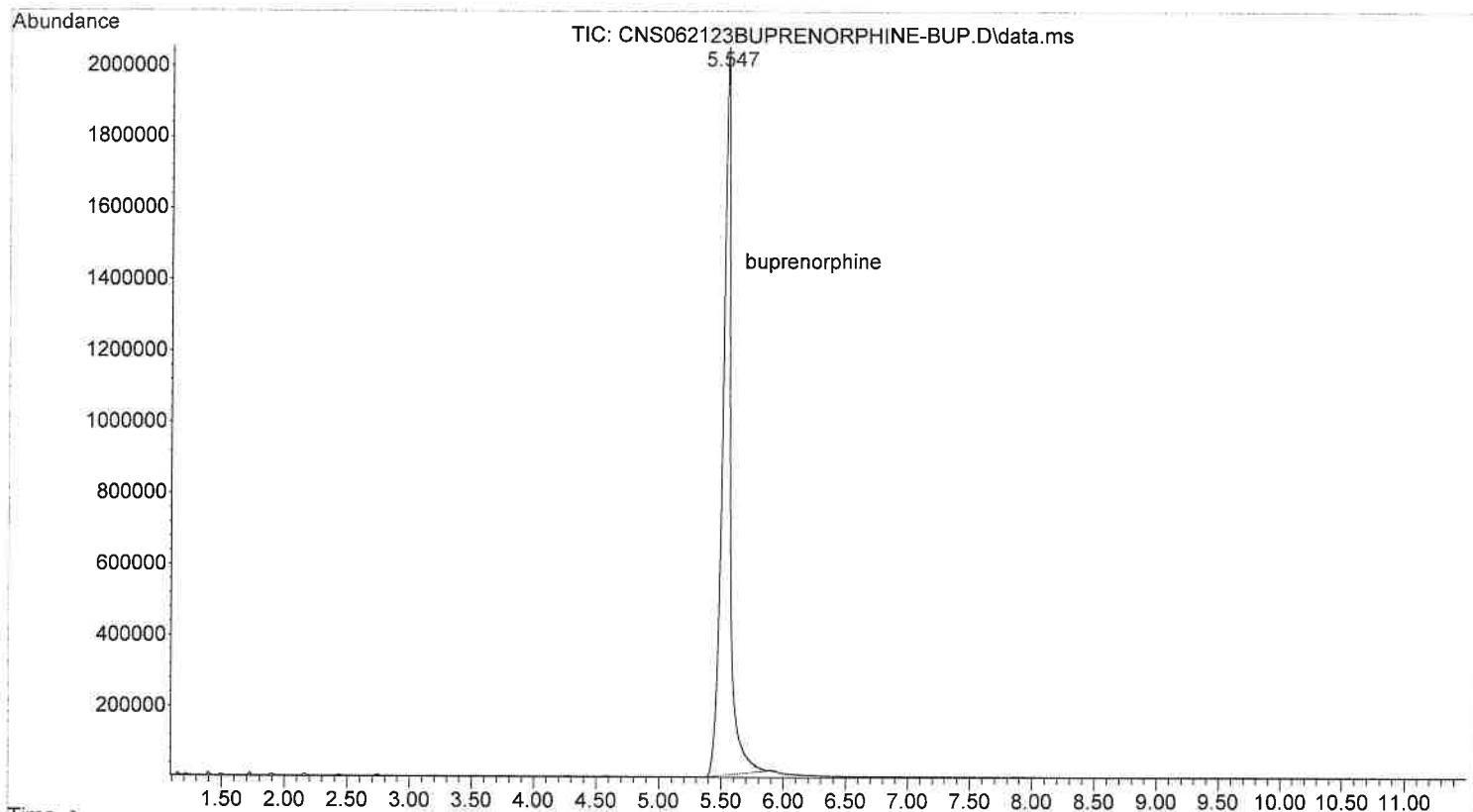
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

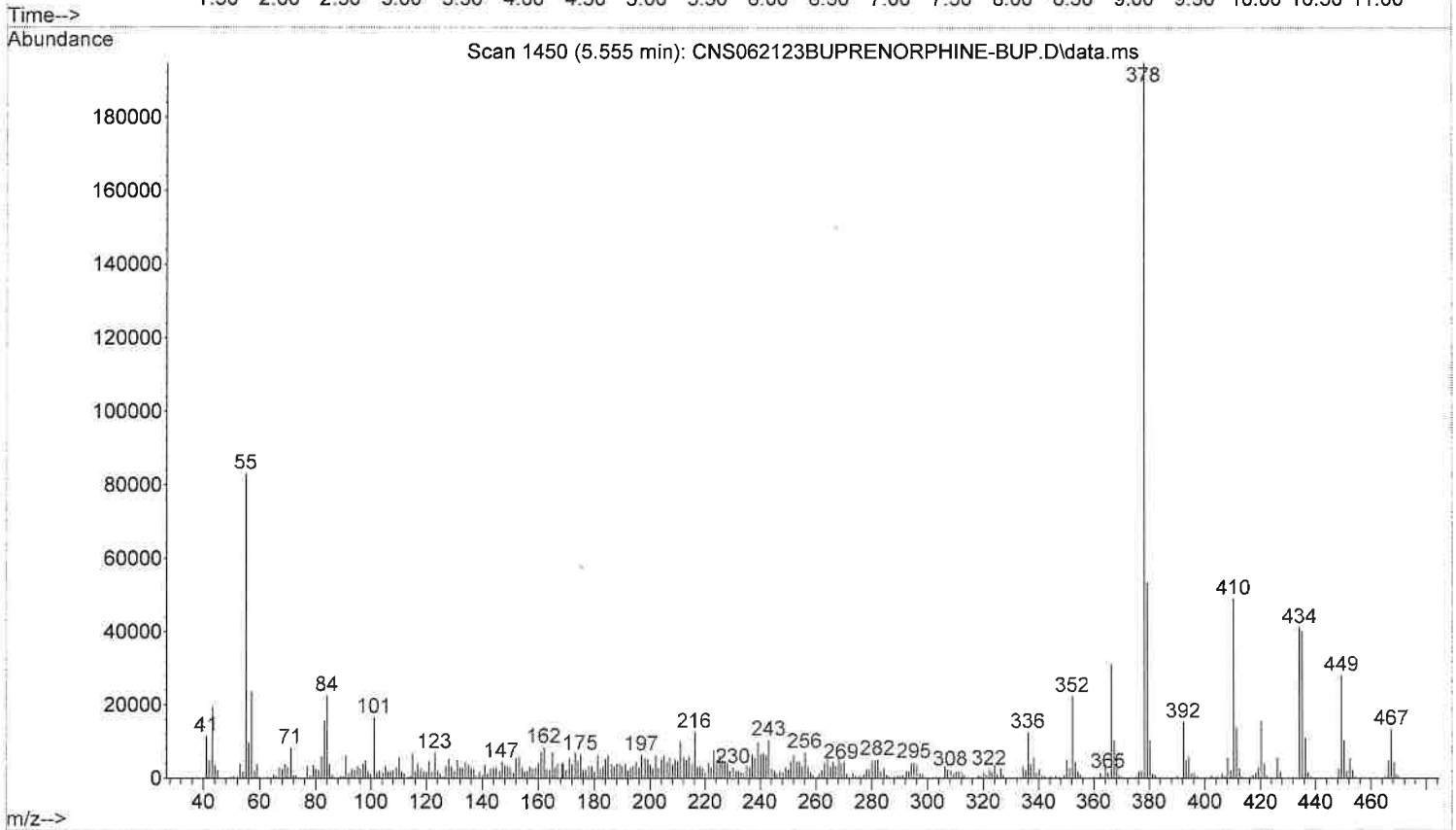
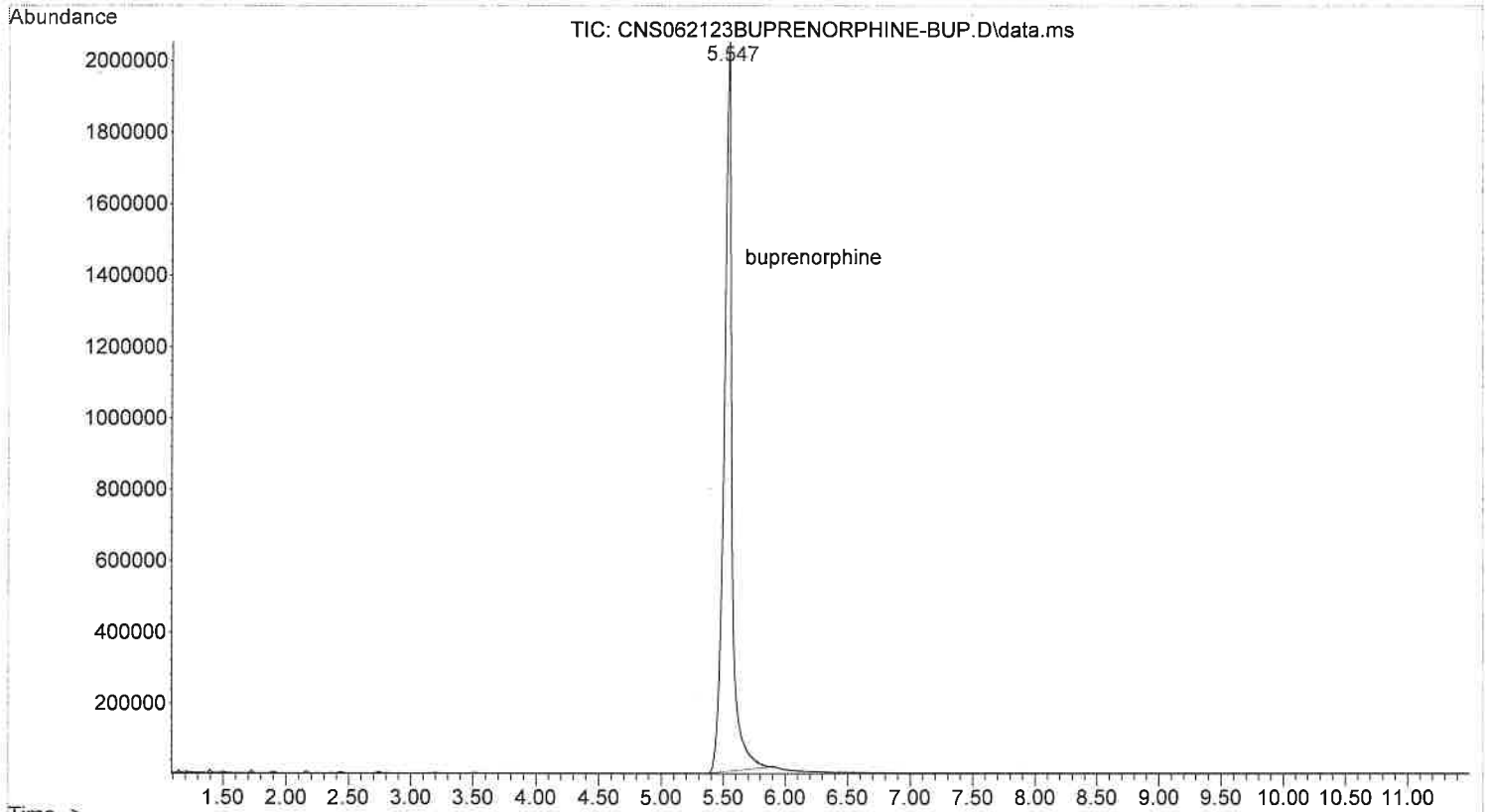
Self-Cleaning Ion Source Parameters

Mode	No Cleaning
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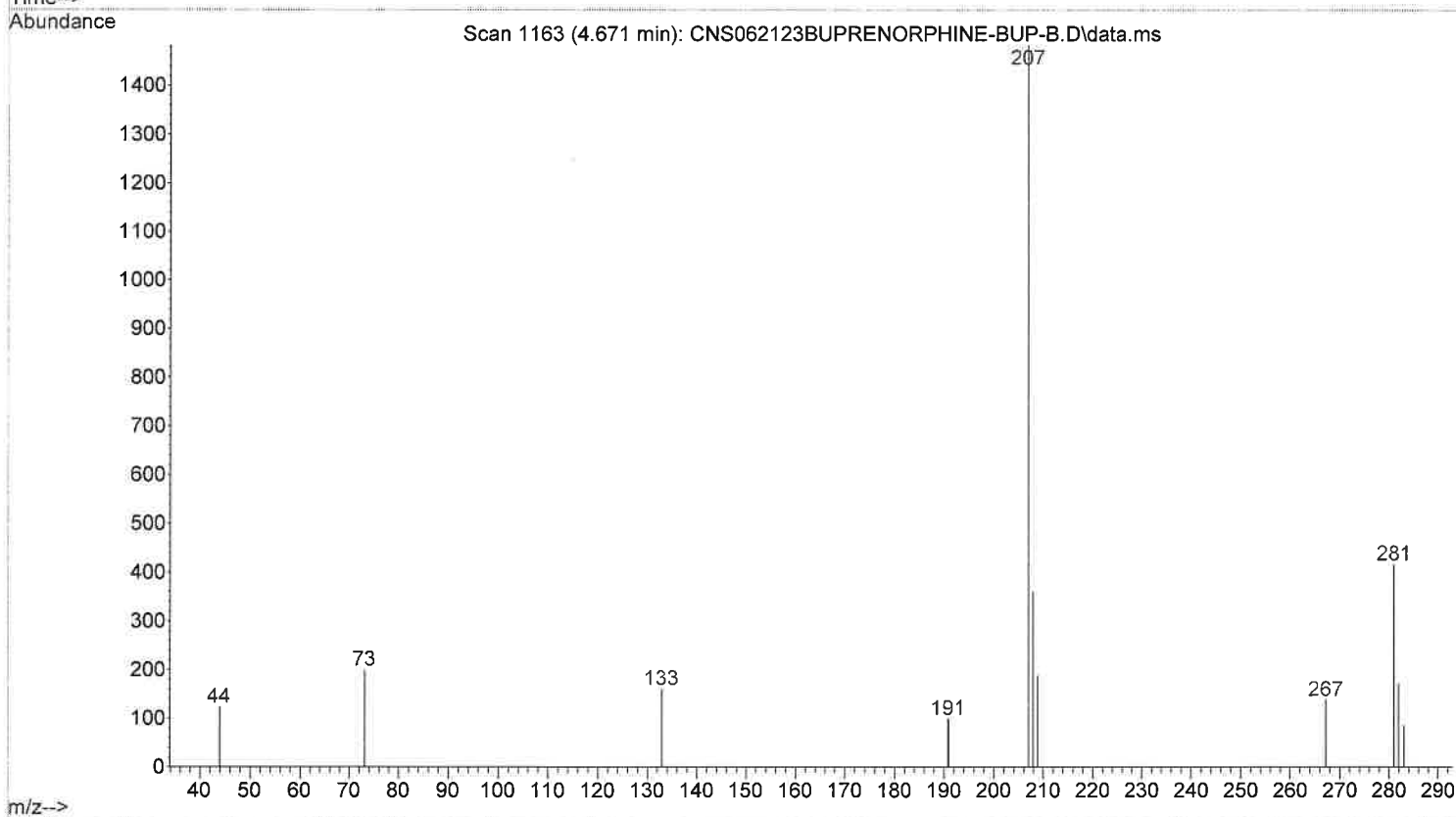
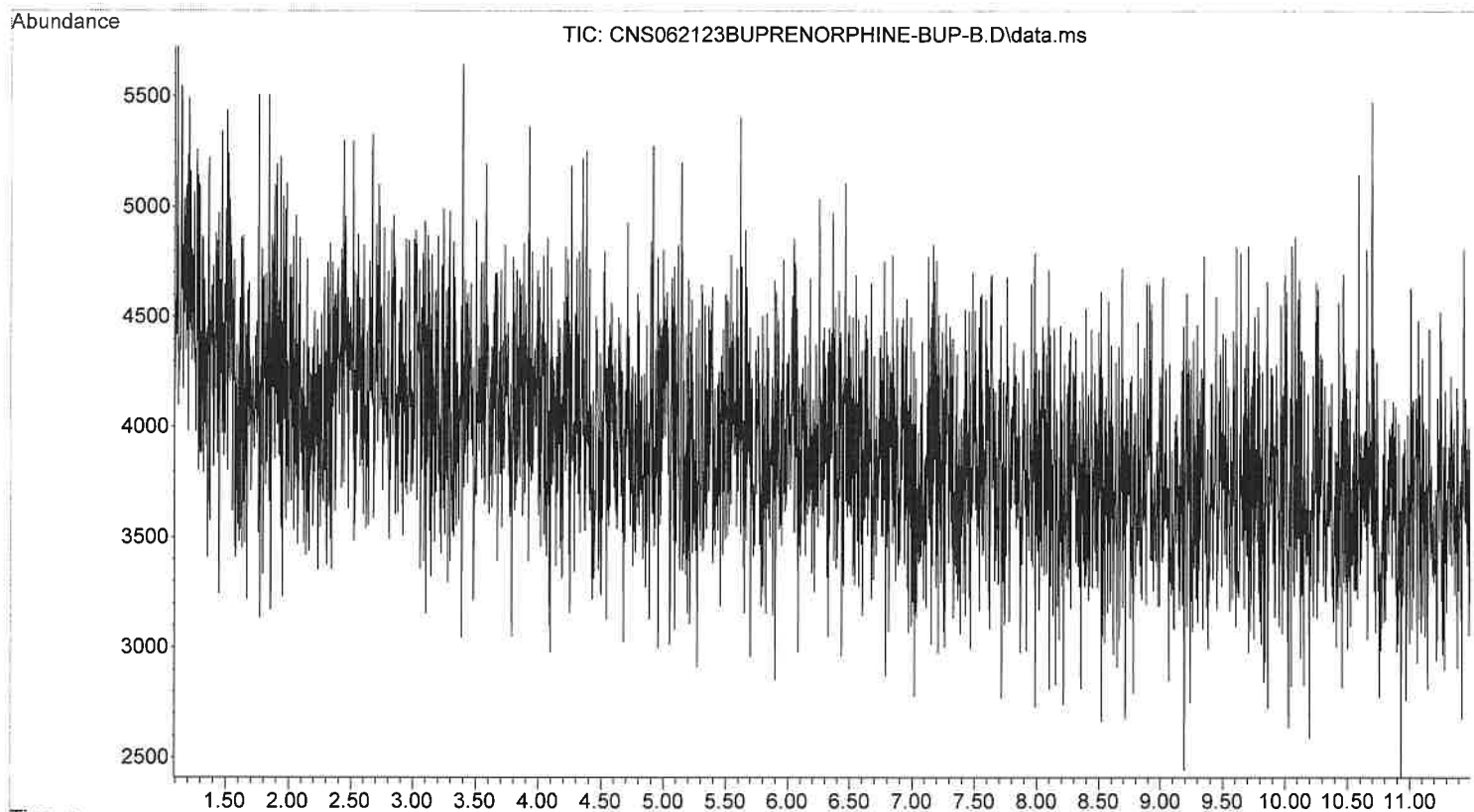
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123BUPRENORPHIN
... E-BUP.D
Operator : KLAB
Instrument : Precious
Acquired : 22 Jun 2023 01:44 using AcqMethod BUPMS.M
Sample Name: BUPRENORPHINE STD
Misc Info : MeOH



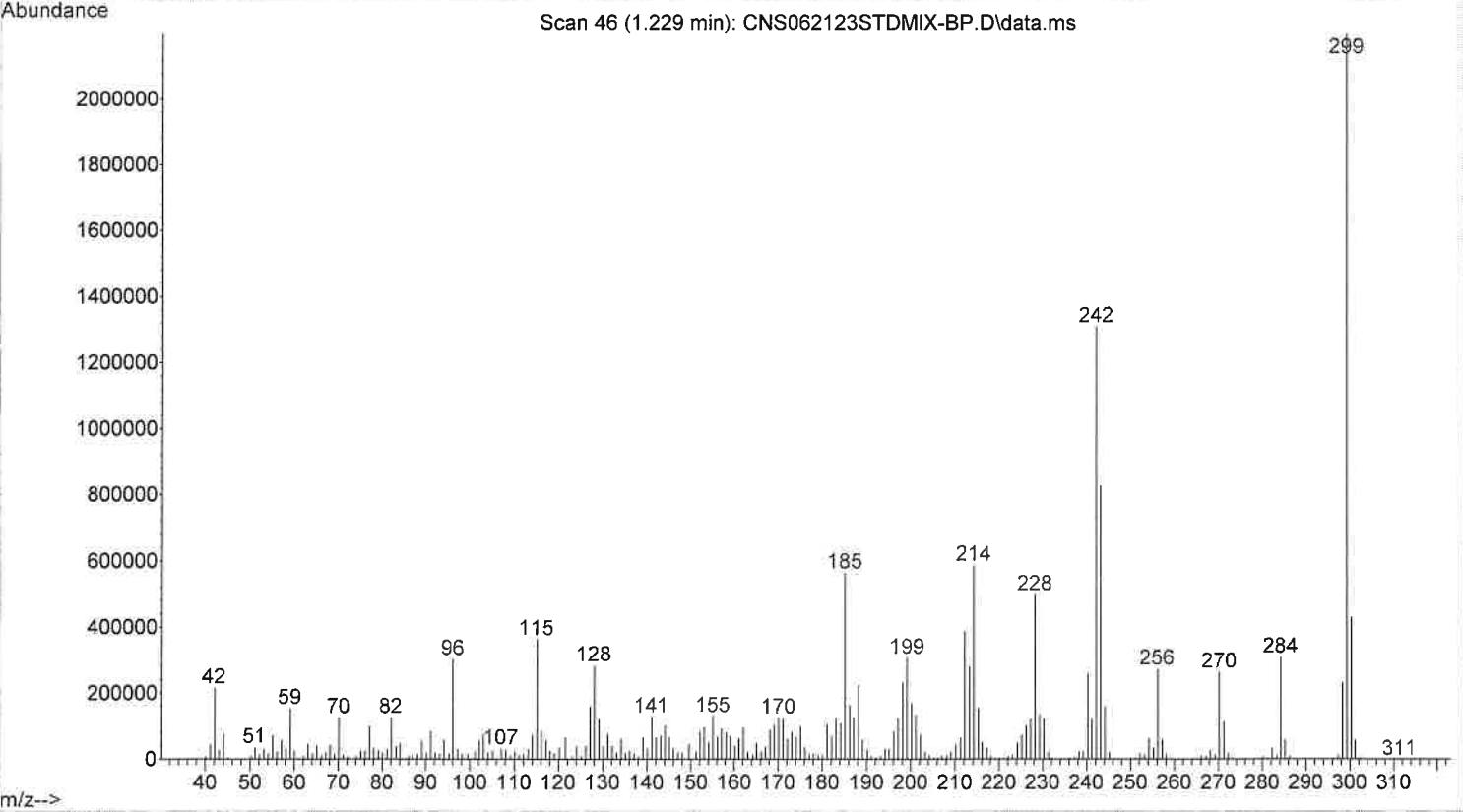
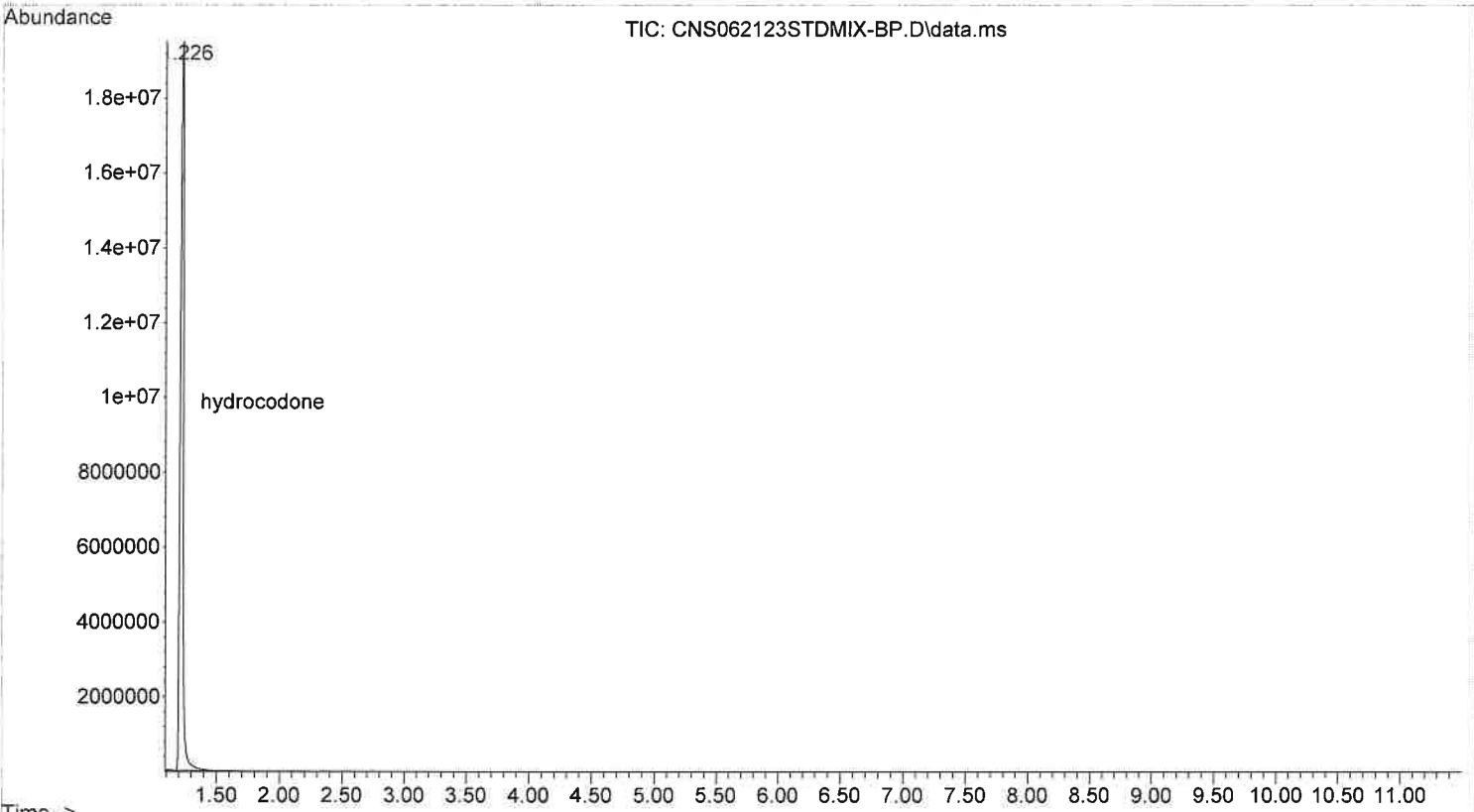
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123BUPRENORPHIN
... E-BUP.D
Operator : KLAB
Instrument : Precious
Acquired : 22 Jun 2023 01:44 using AcqMethod BUPMS.M
Sample Name: BUPRENORPHINE STD
Misc Info : MeOH



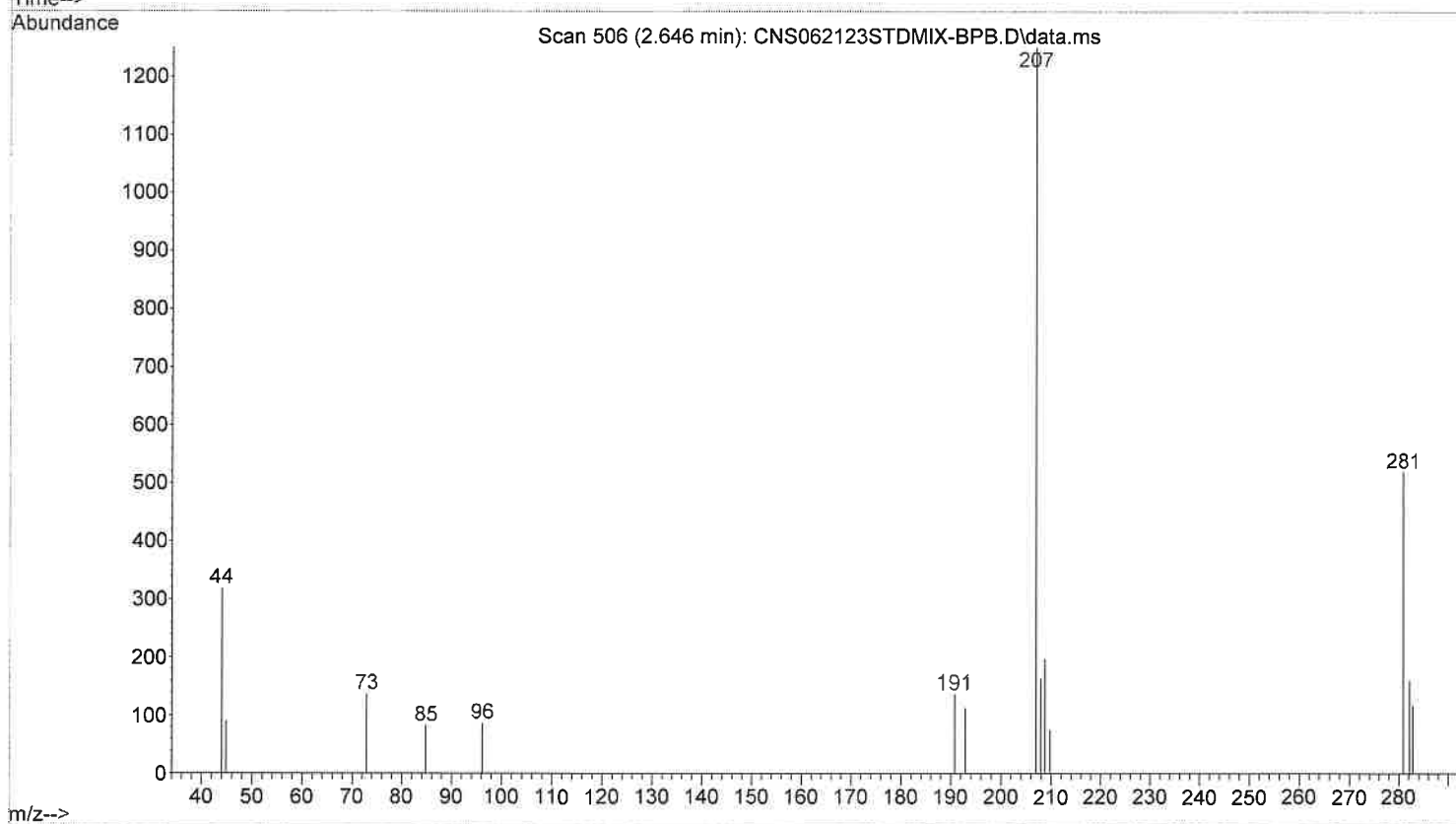
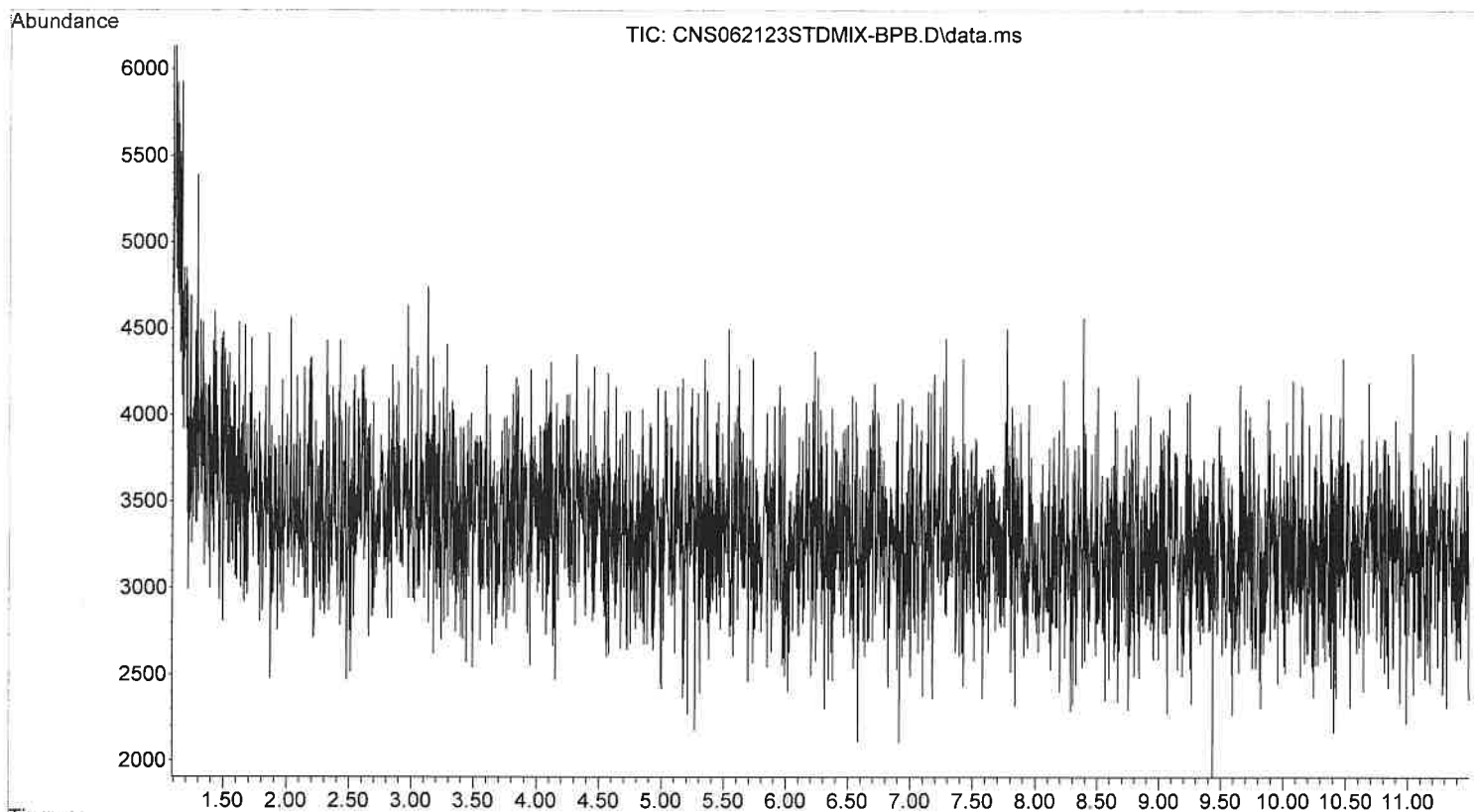
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123BUPRENORPHIN
... E-BUP-B.D
Operator : KLAB
Instrument : Precious
Acquired : 22 Jun 2023 01:30 using AcqMethod BUPMS.M
Sample Name: METHANOL BLANK
Misc Info : BUPRENORPHINE STD



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STD MIX-BP.D
Operator : KLAB
Acquired : 21 Jun 2023 16:48 using AcqMethod BUPMS.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHC13
Vial Number: 7



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STDMIX-BPB.D
Operator : KLAB
Acquired : 21 Jun 2023 16:35 using AcqMethod BUPMS.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\DRUG.M

Method Sections To Run:

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

- () Data Analysis Pre-Run Cmd/Macro =

- (X) Data Acquisition
- (X) Data Analysis
- () Instrument Control Post-Run Cmd/Macro =

- () Data Analysis Post-Run Cmd/Macro =

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\DRUG.M

Thu Jun 22 08:52:23 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 2 min
Post Run 50 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 6 min

Equilibration Time 0.5 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 1
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 8.15 psi
Gas Saver	On 15 After 2 min mL/min
Split Ratio	25 :1
Split Flow	22.926 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	110.37 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.91706 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS
DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	80 °C
Pressure	8.15 psi
Flow	0.91706 mL/min
Average Velocity	55.972 cm/sec
Holdup Time	0.35732 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	80 °C
Pressure	6.7158 psi
Flow	2.2075 mL/min
Average Velocity	44.155 cm/sec
Holdup Time	0.56619 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\DRUG.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Thu Jun 22 08:52:25 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\DRUG.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	70	3,125 [N=1]

Timed Events

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

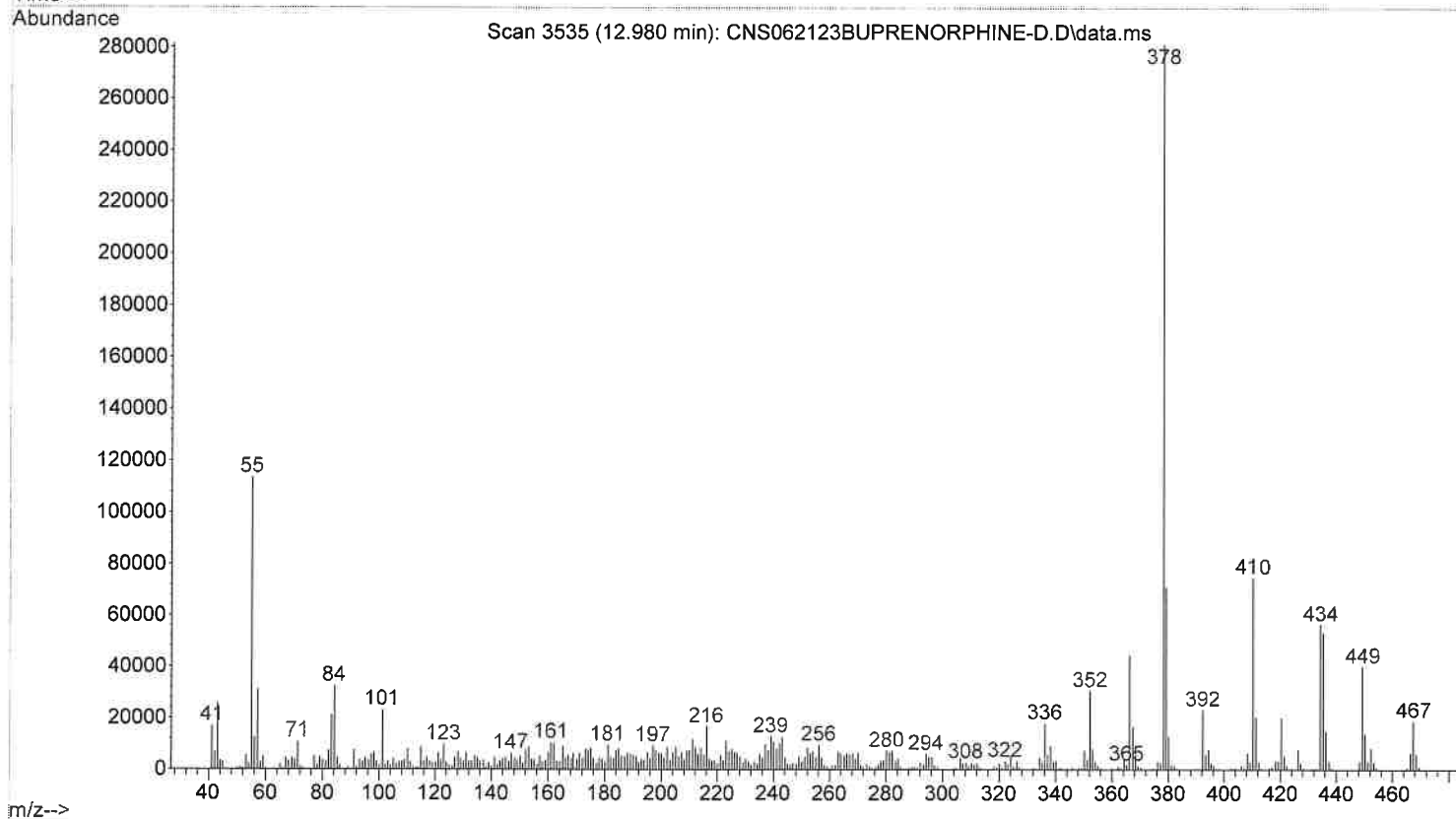
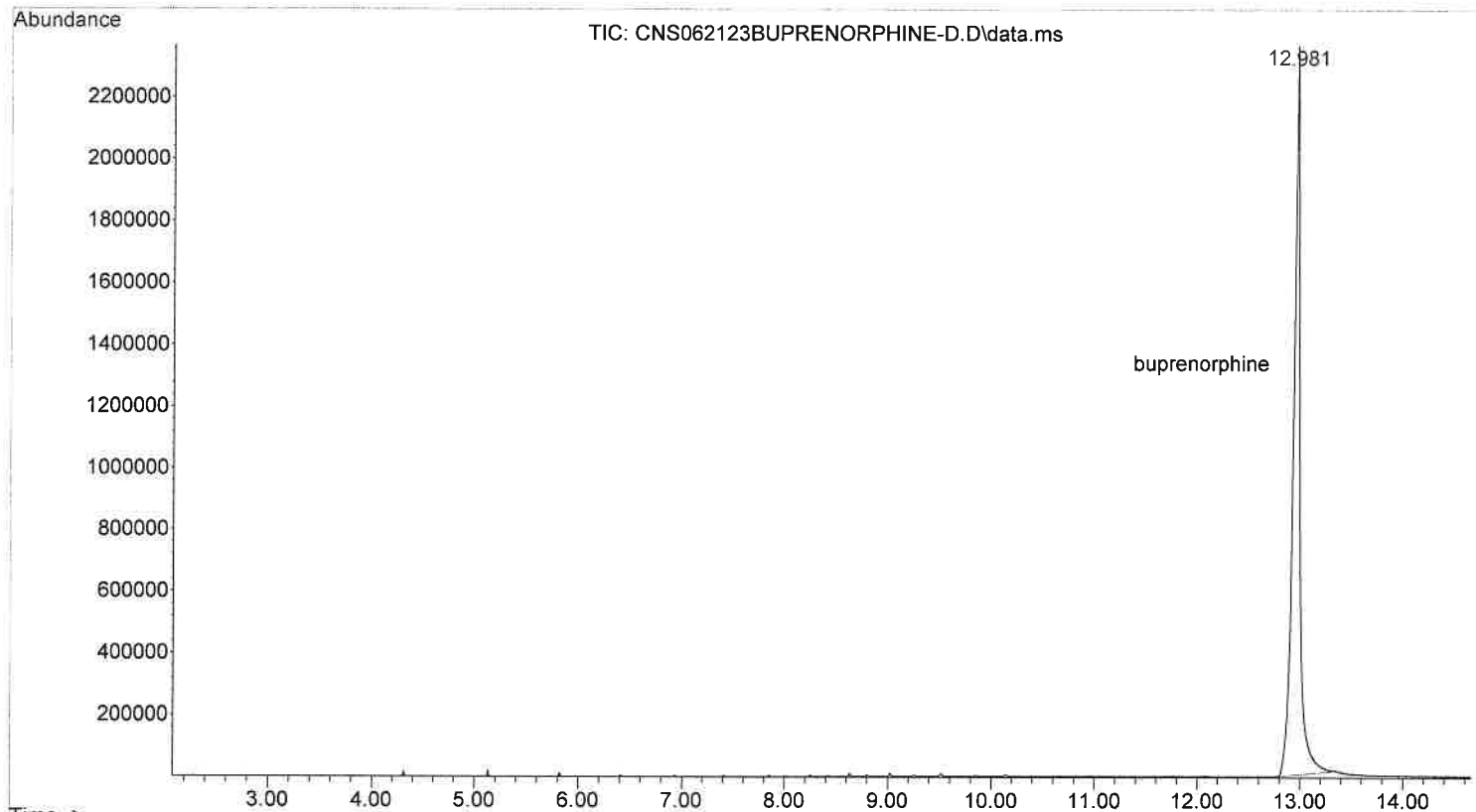
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

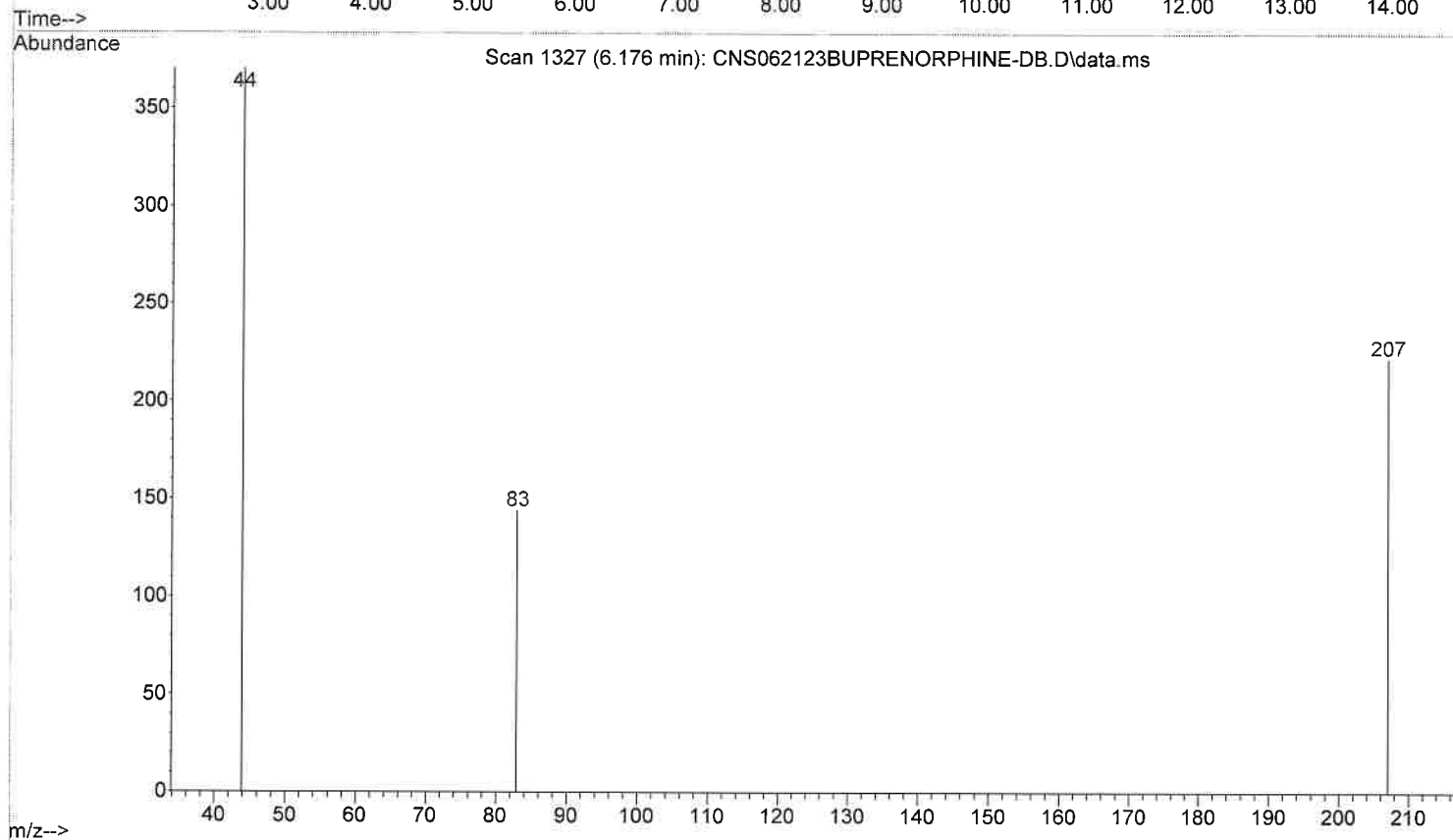
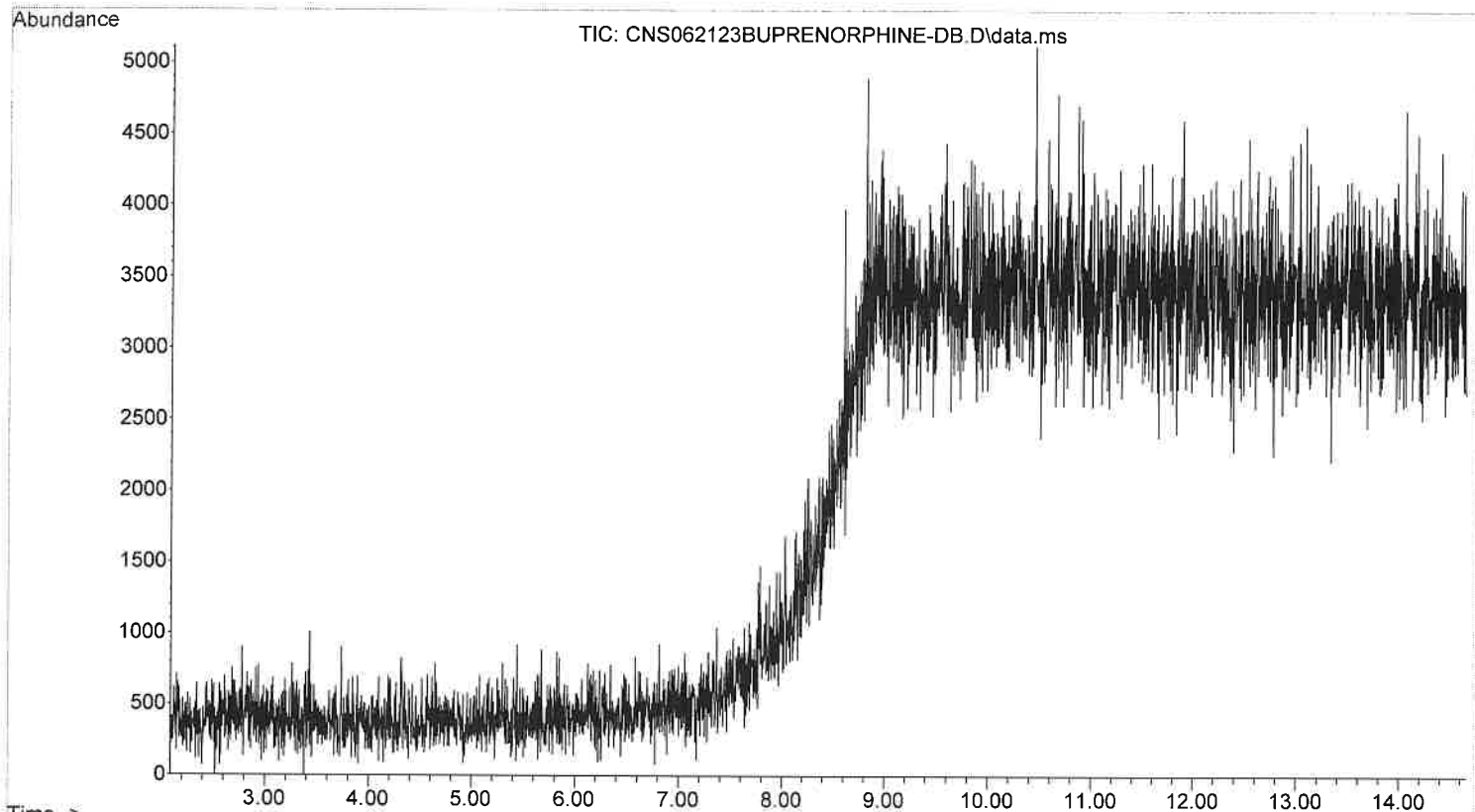
Self-Cleaning Ion Source Parameters

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

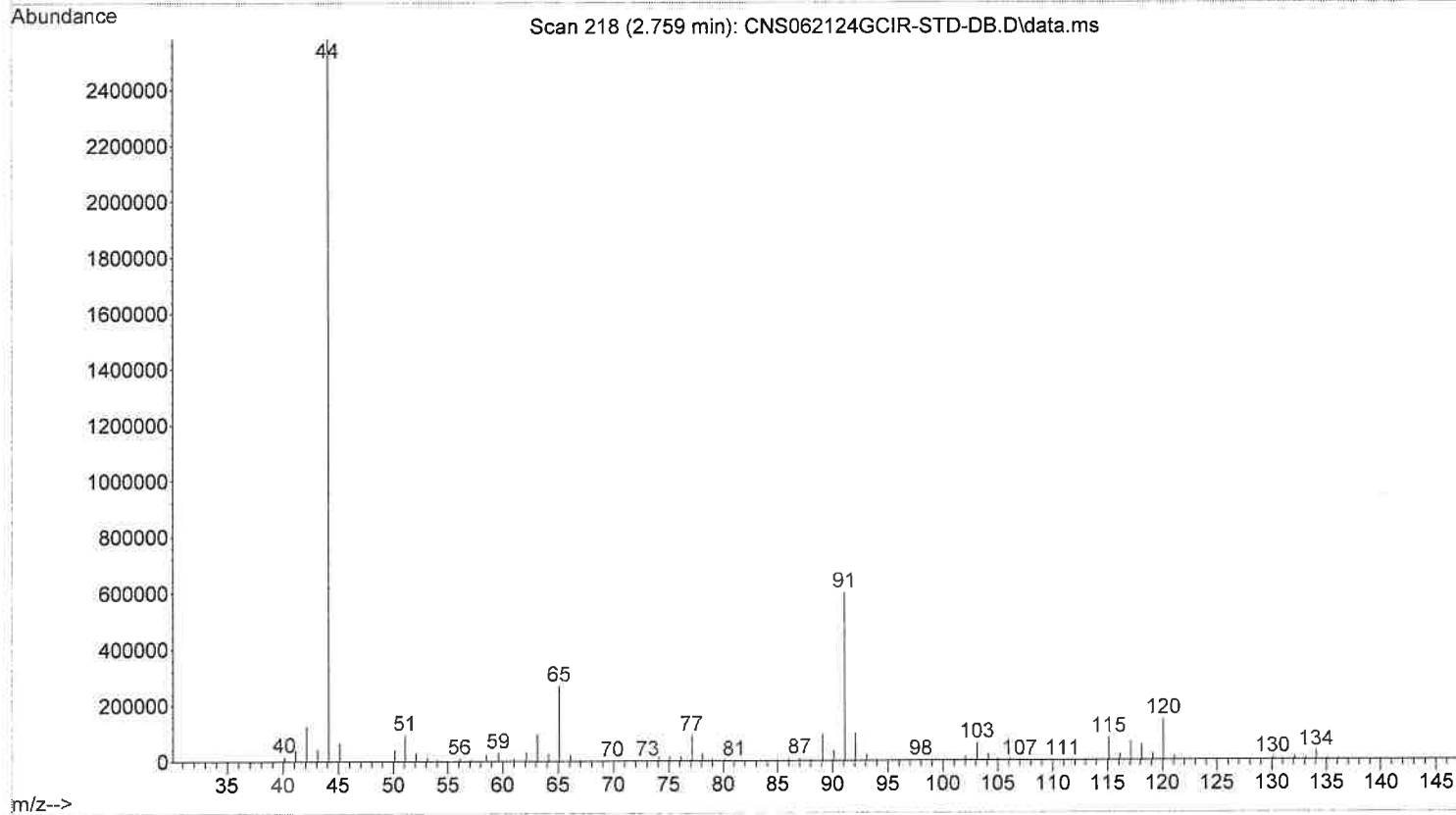
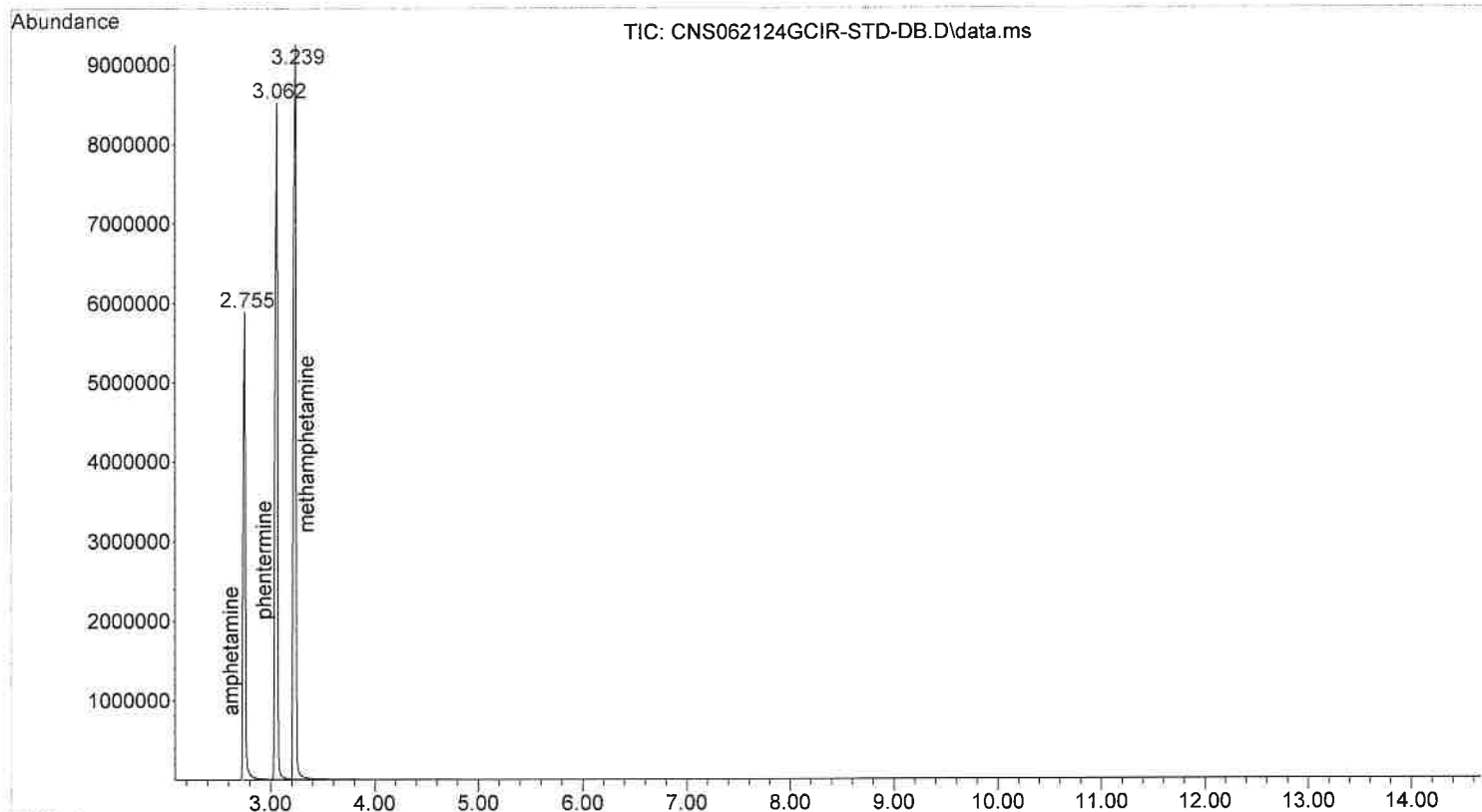
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... E-D.D
Operator : KLAB
Instrument : Precious
Acquired : 22 Jun 2023 00:53 using AcqMethod DRUG.M
Sample Name: BUPRENORPHINE STD
Misc Info : MeOH



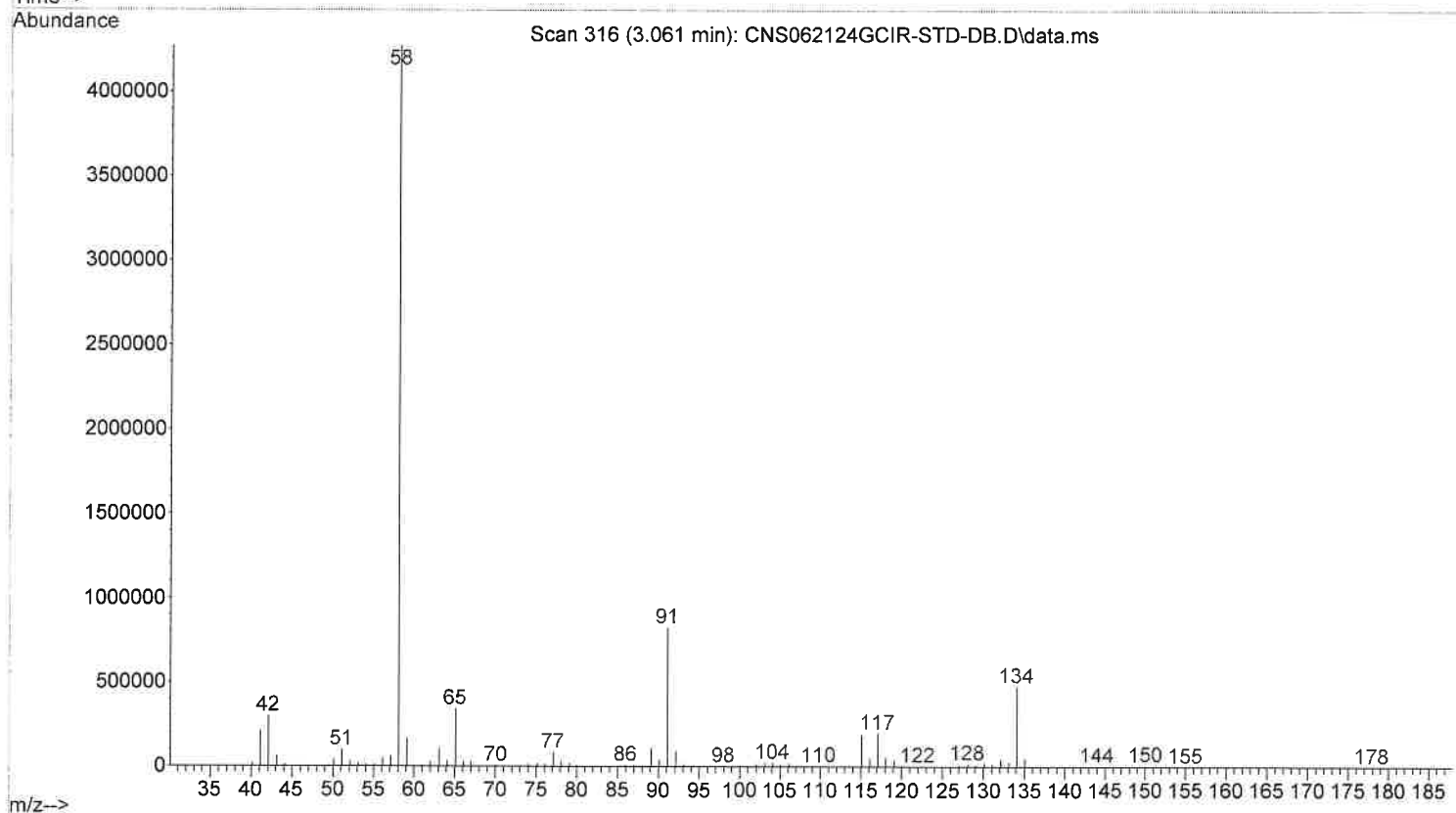
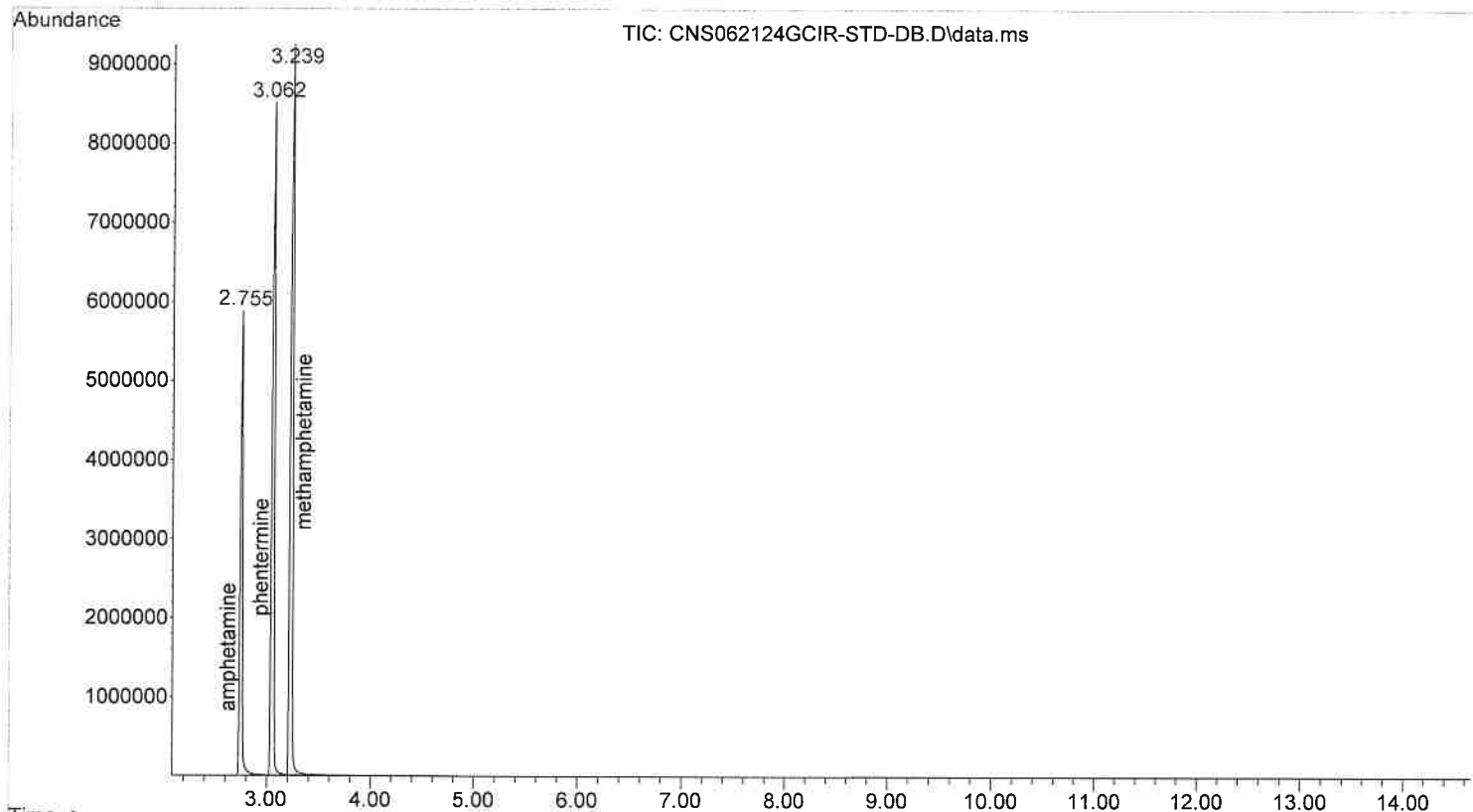
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... E-DB.D
Operator : KLAB
Instrument : Precious
Acquired : 22 Jun 2023 00:34 using AcqMethod DRUG.M
Sample Name: METHANOL BLANK
Misc Info : BUPRENORPHINE STD



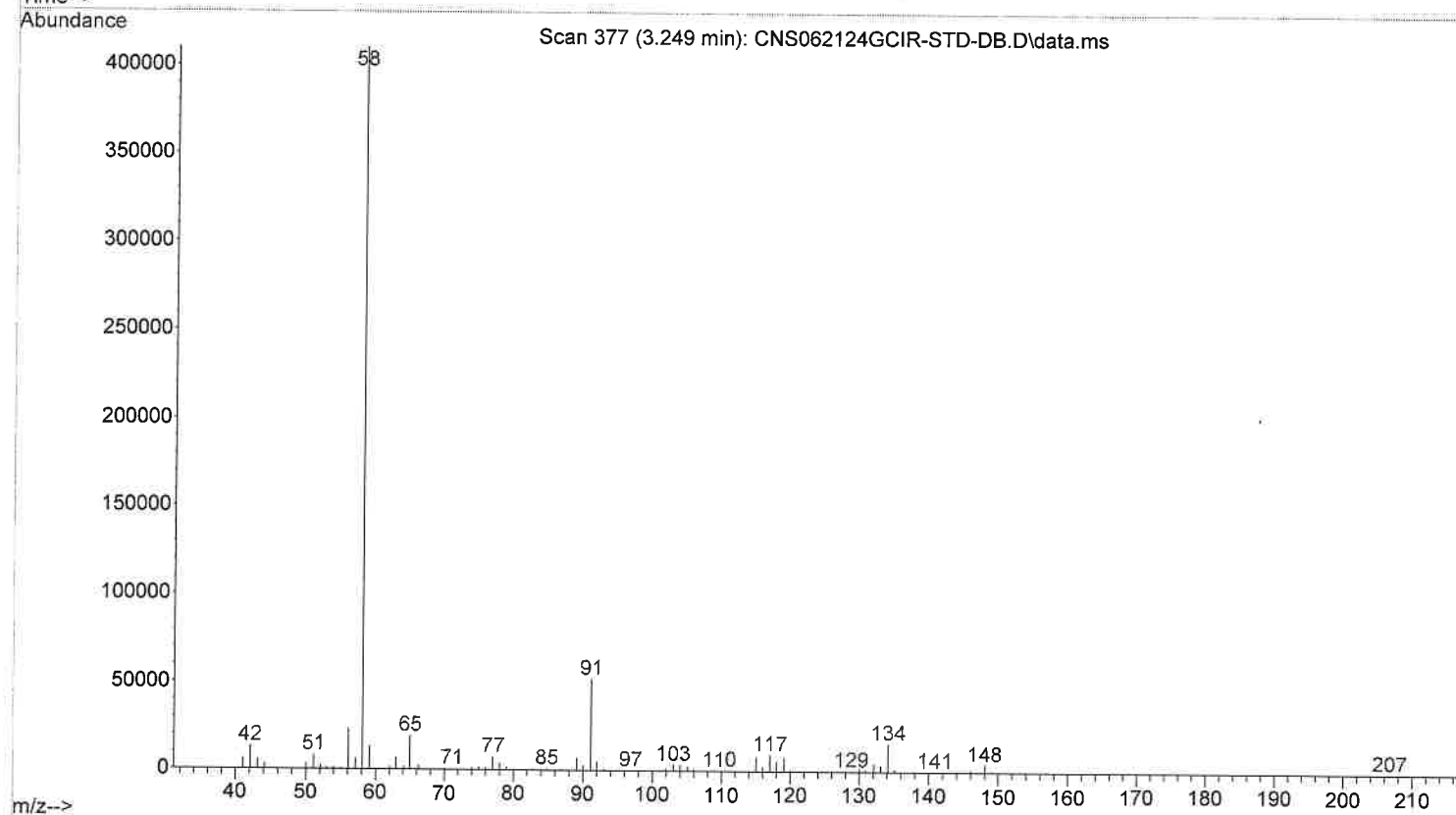
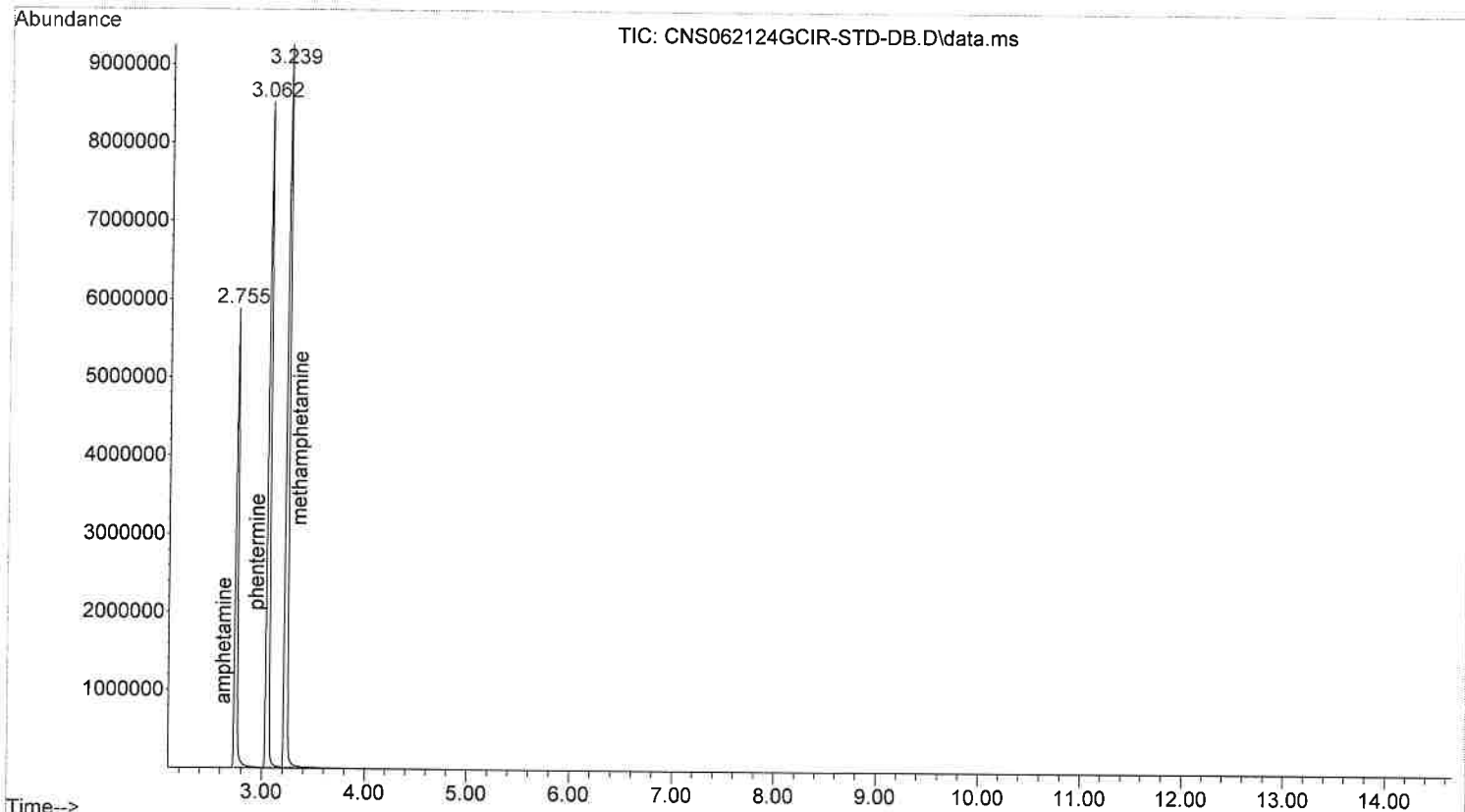
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Operator : KLAB
Acquired : 21 Jun 2023 18:22 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: GCIR STD MIX
Misc Info : CHCl3
Vial Number: 5



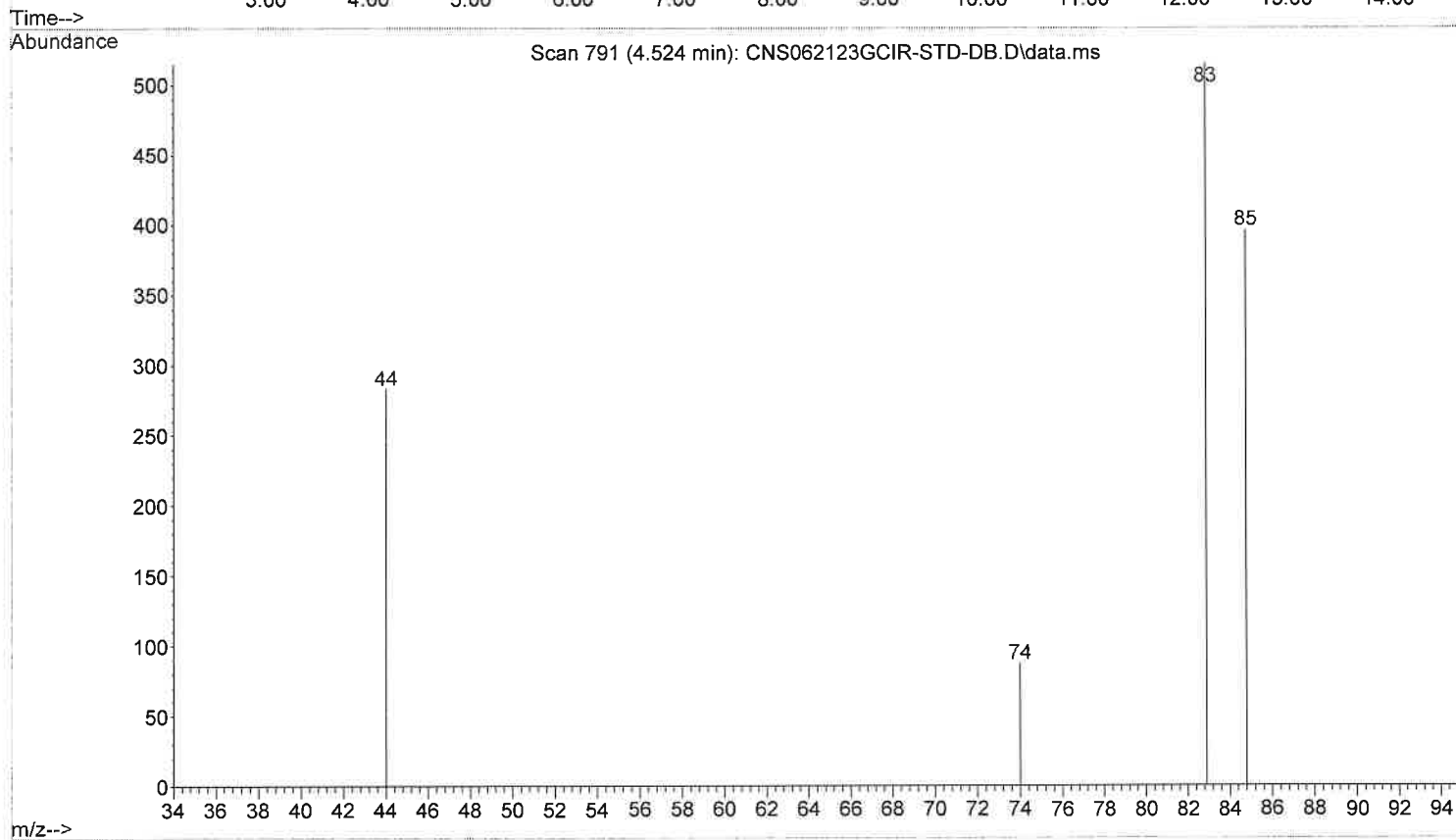
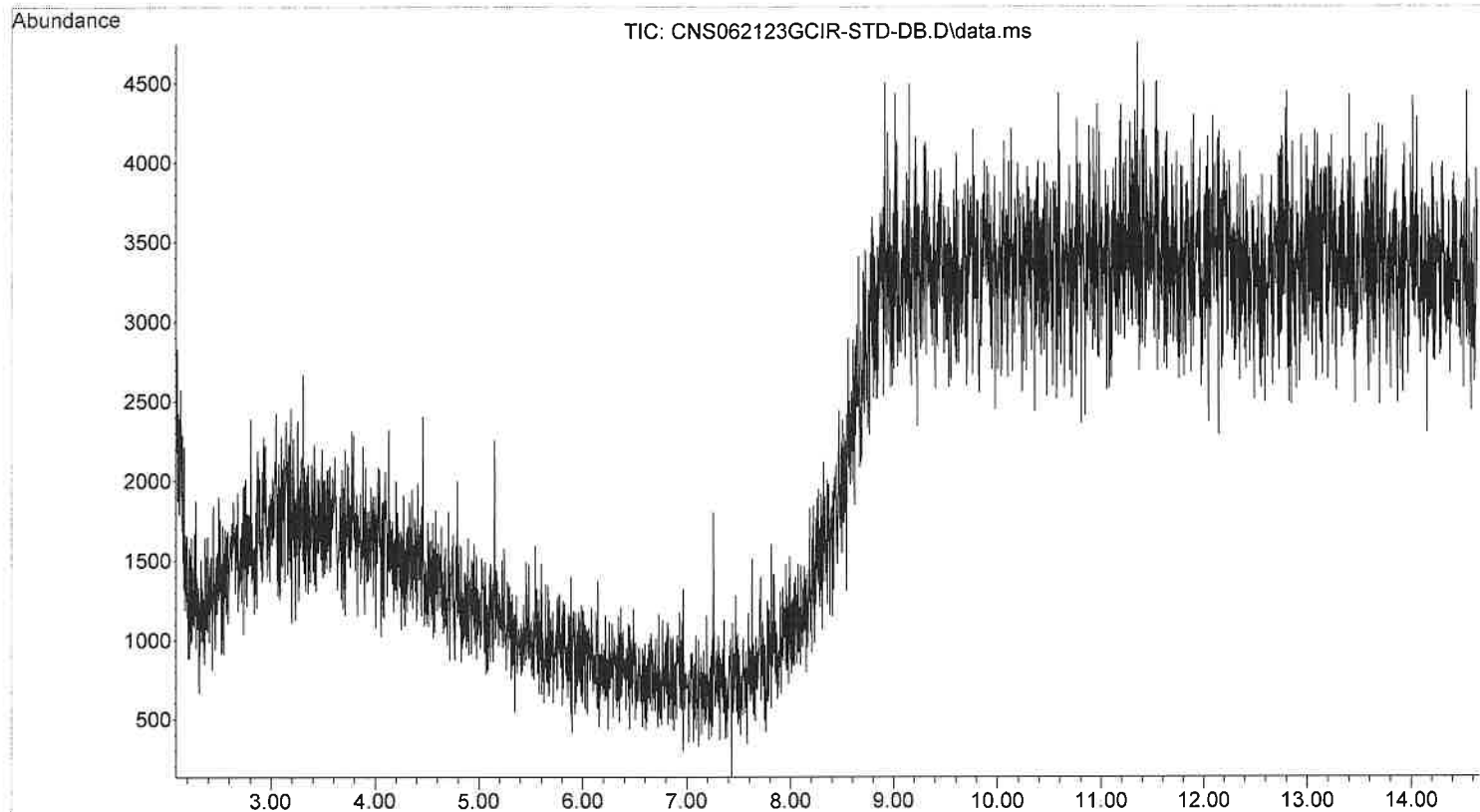
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Instrument : Precious
Sample Name: GCIR STD MIX
Misc Info : CHCl3
Vial Number: 5



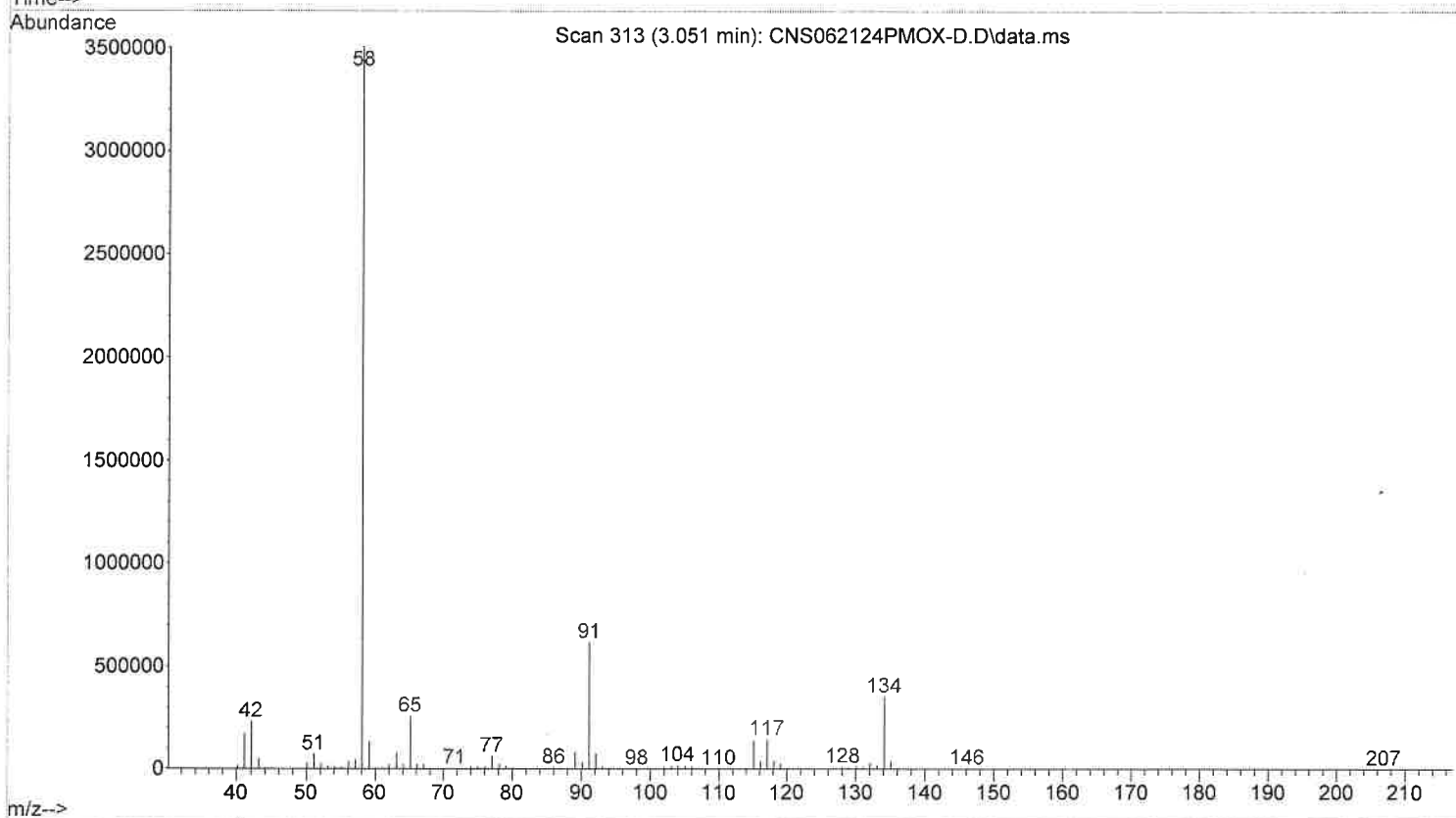
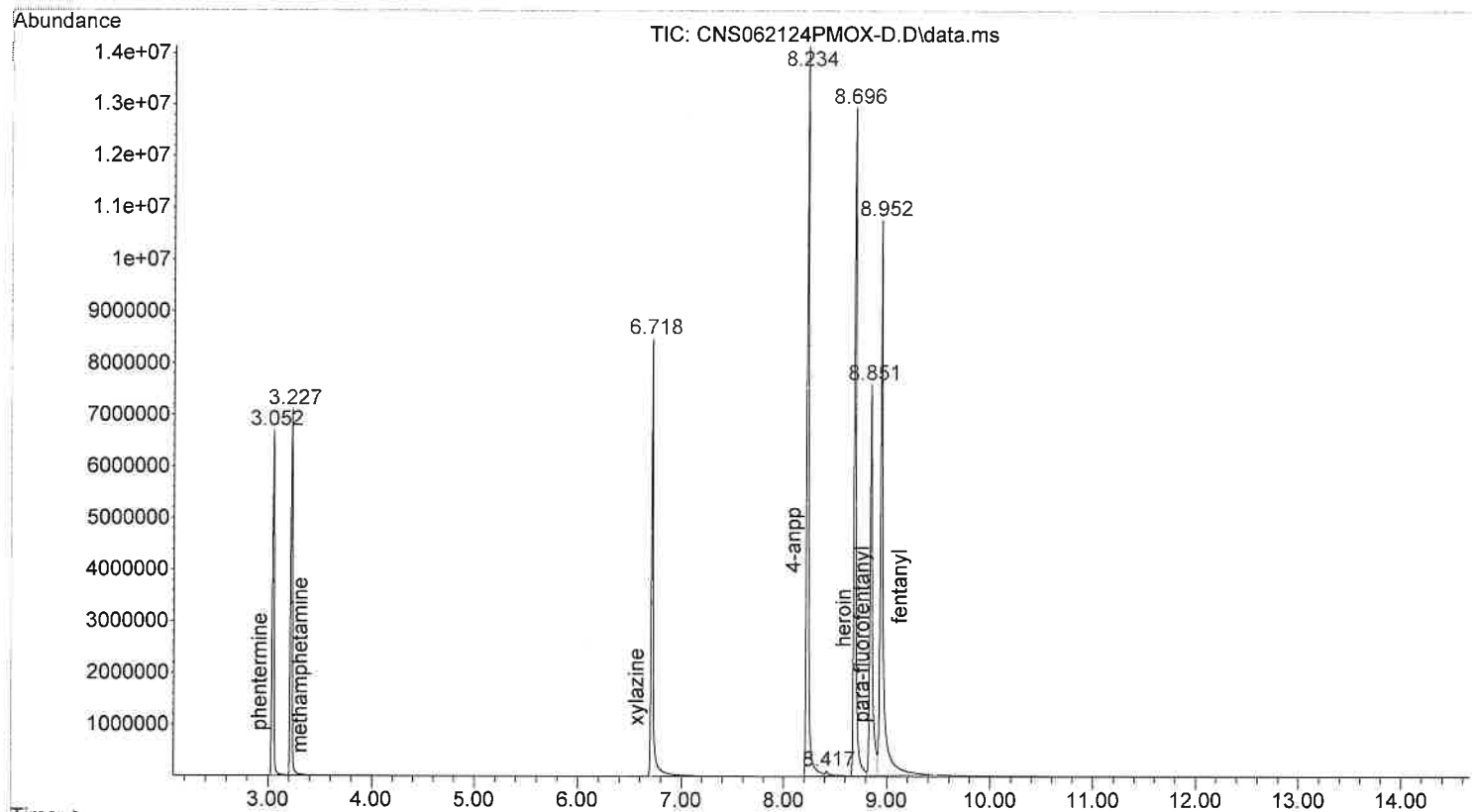
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Operator : KLAB
Acquired : 21 Jun 2023 18:22 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: GCIR STD MIX
Misc Info : CHCl3
Vial Number: 5



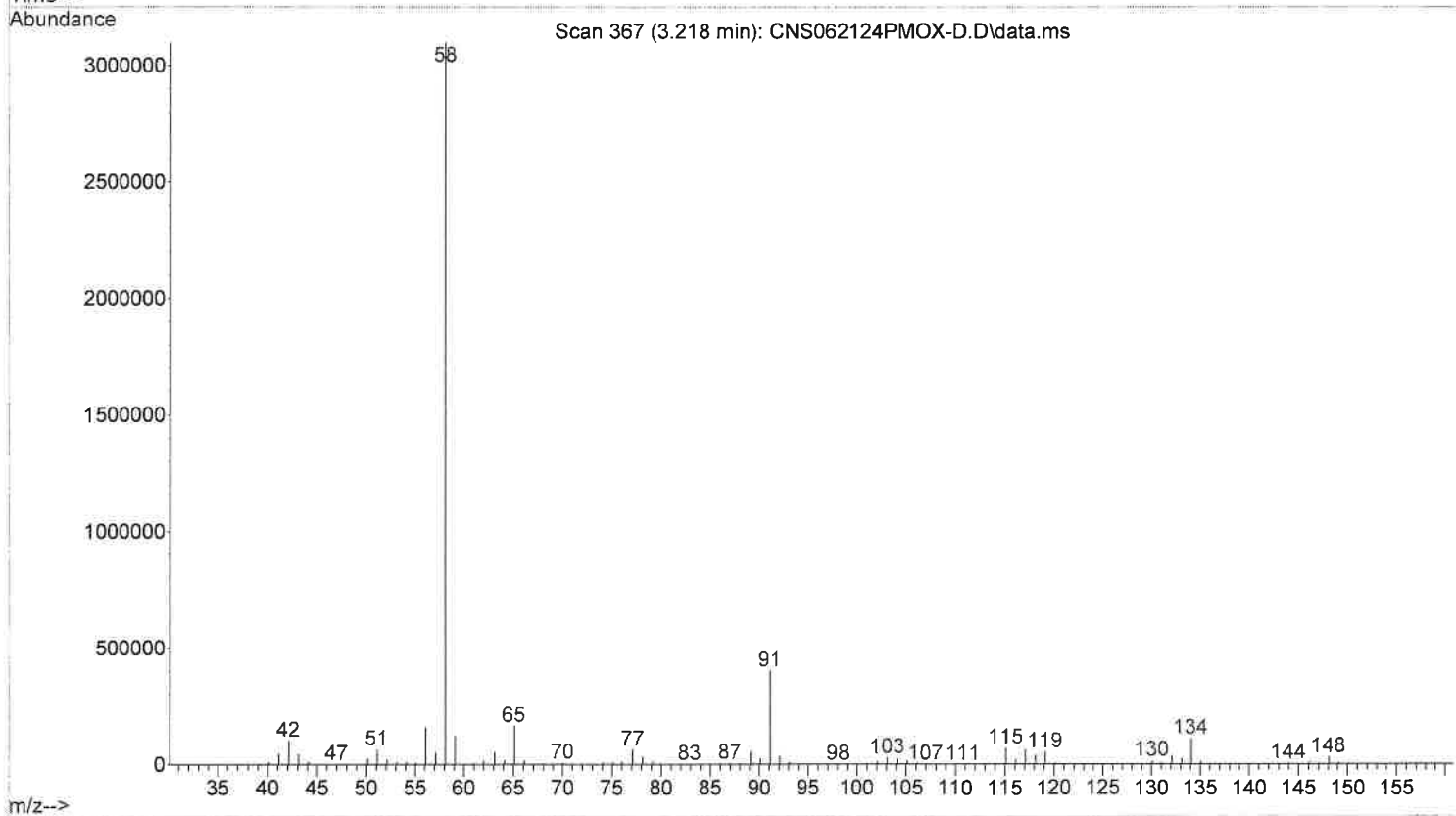
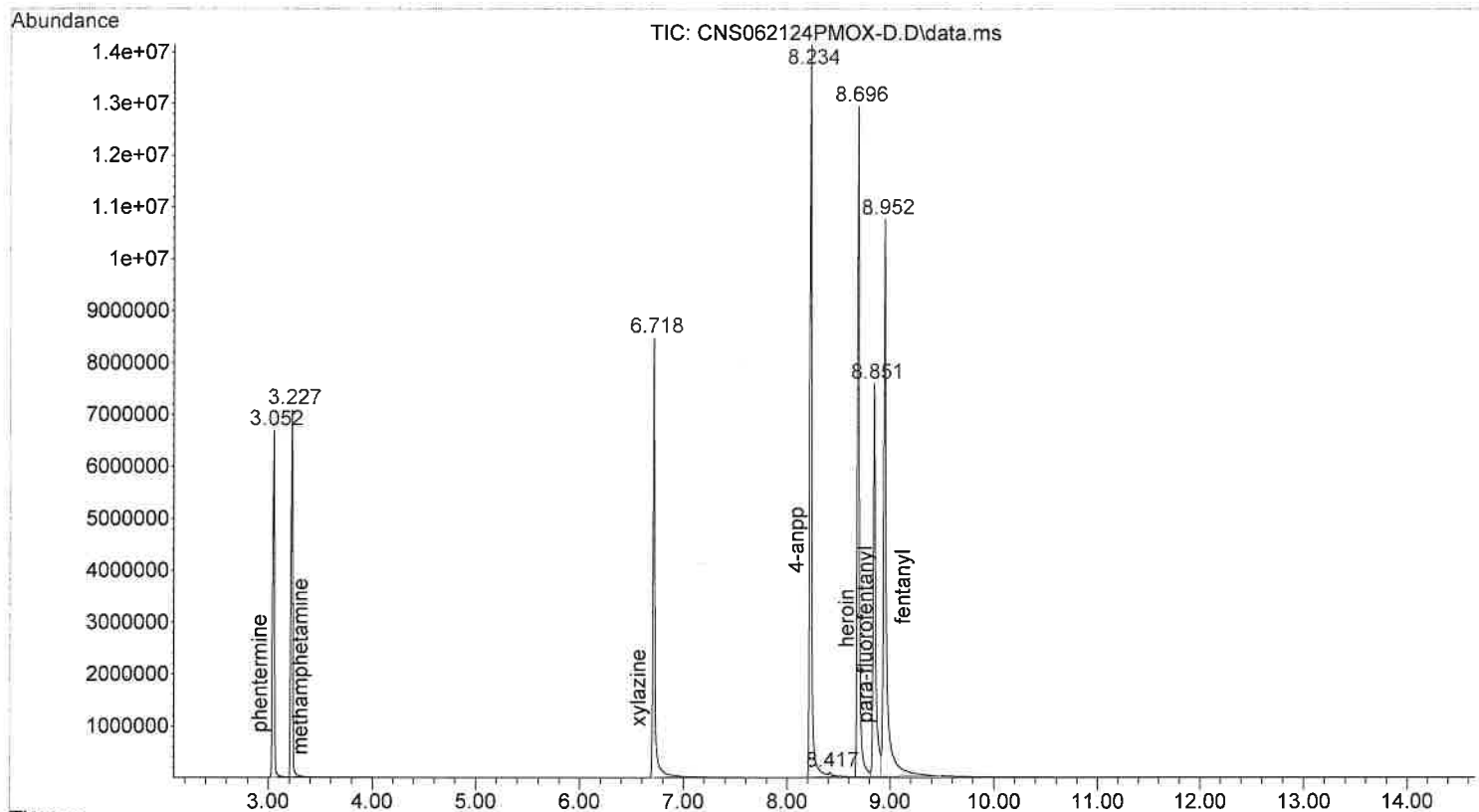
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Operator : KLAB
Acquired : 21 Jun 2023 18:02 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : GCIR STD MIX
Vial Number: 2



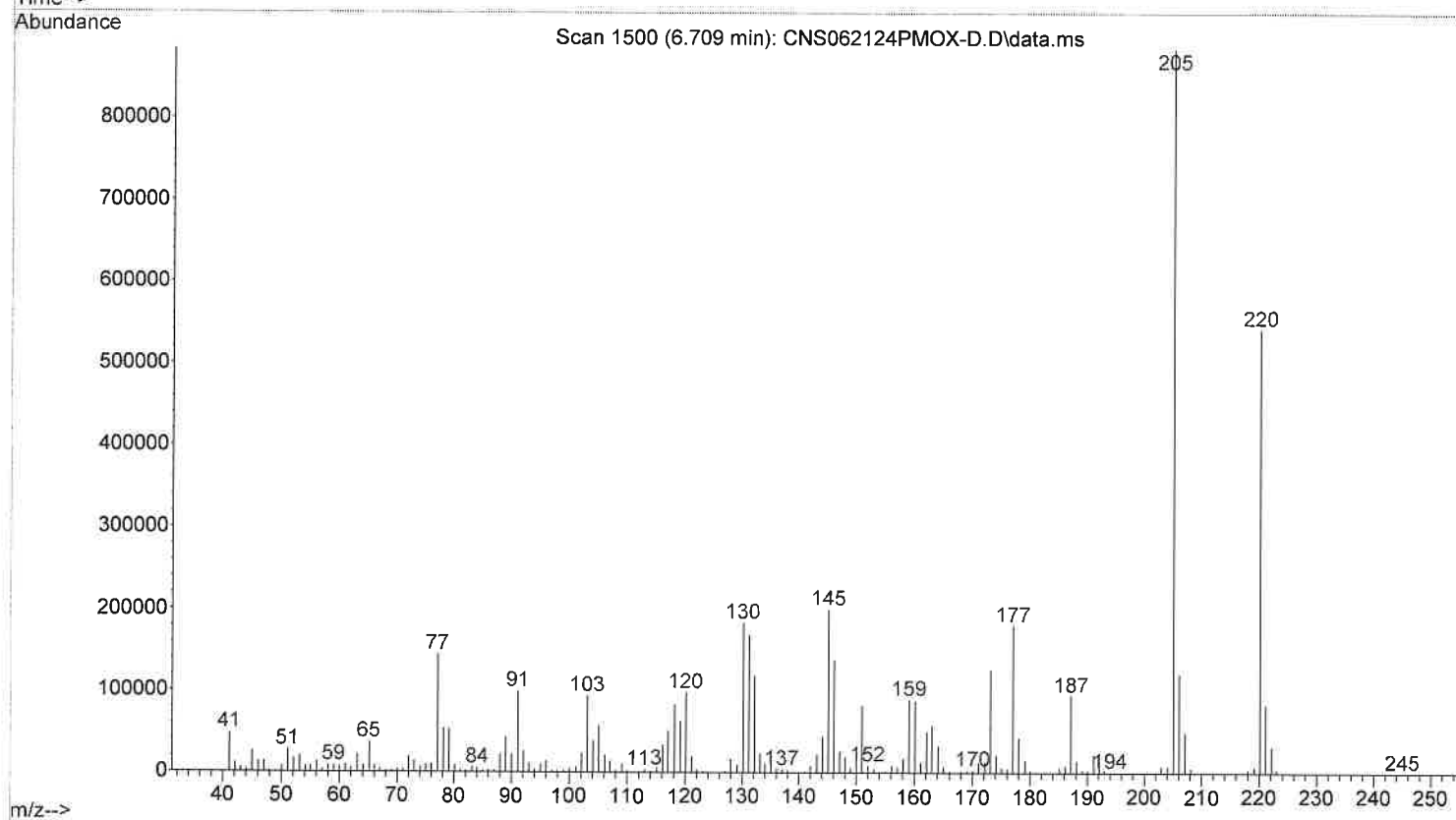
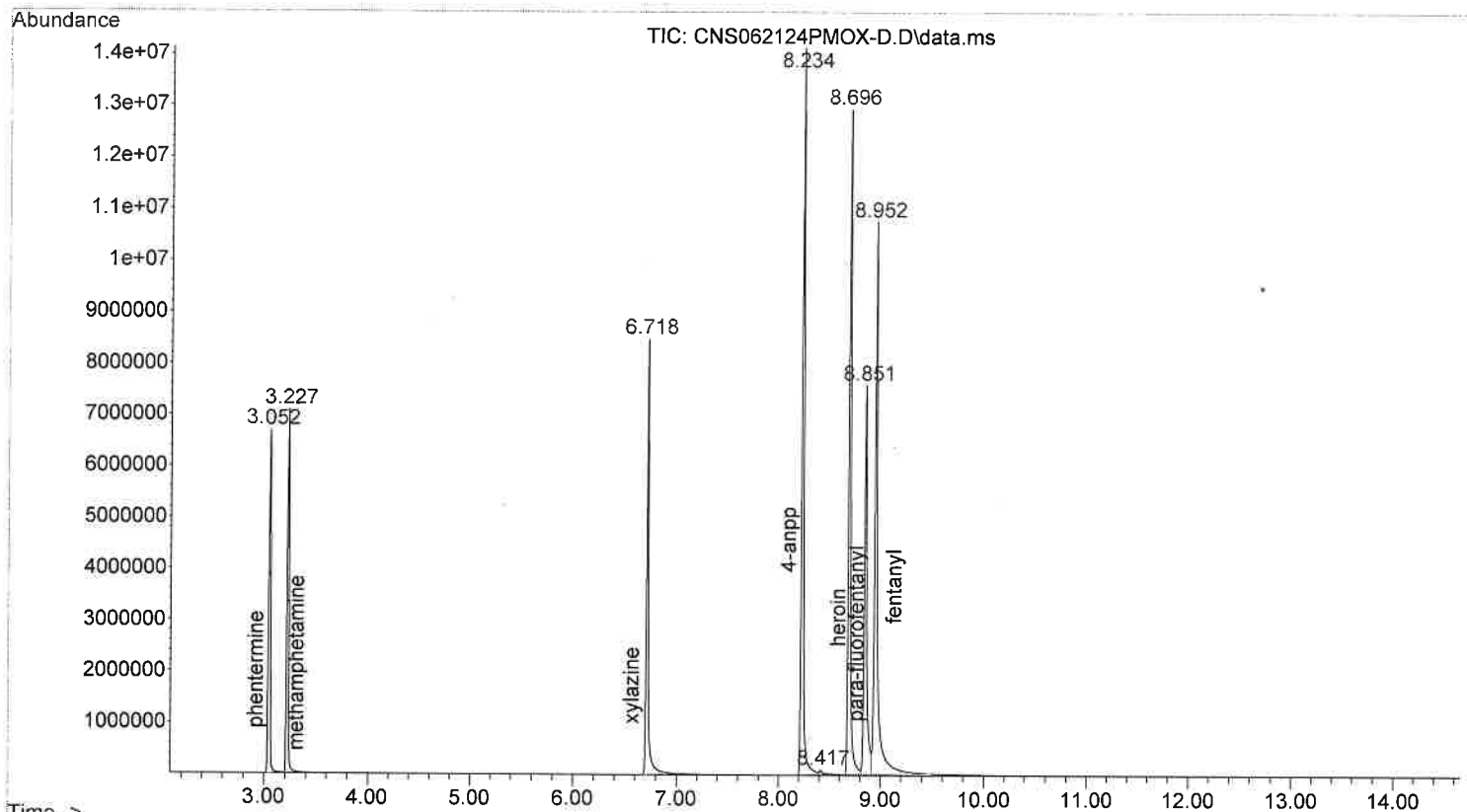
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Operator : KLAB
Acquired : 21 Jun 2023 23:54 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



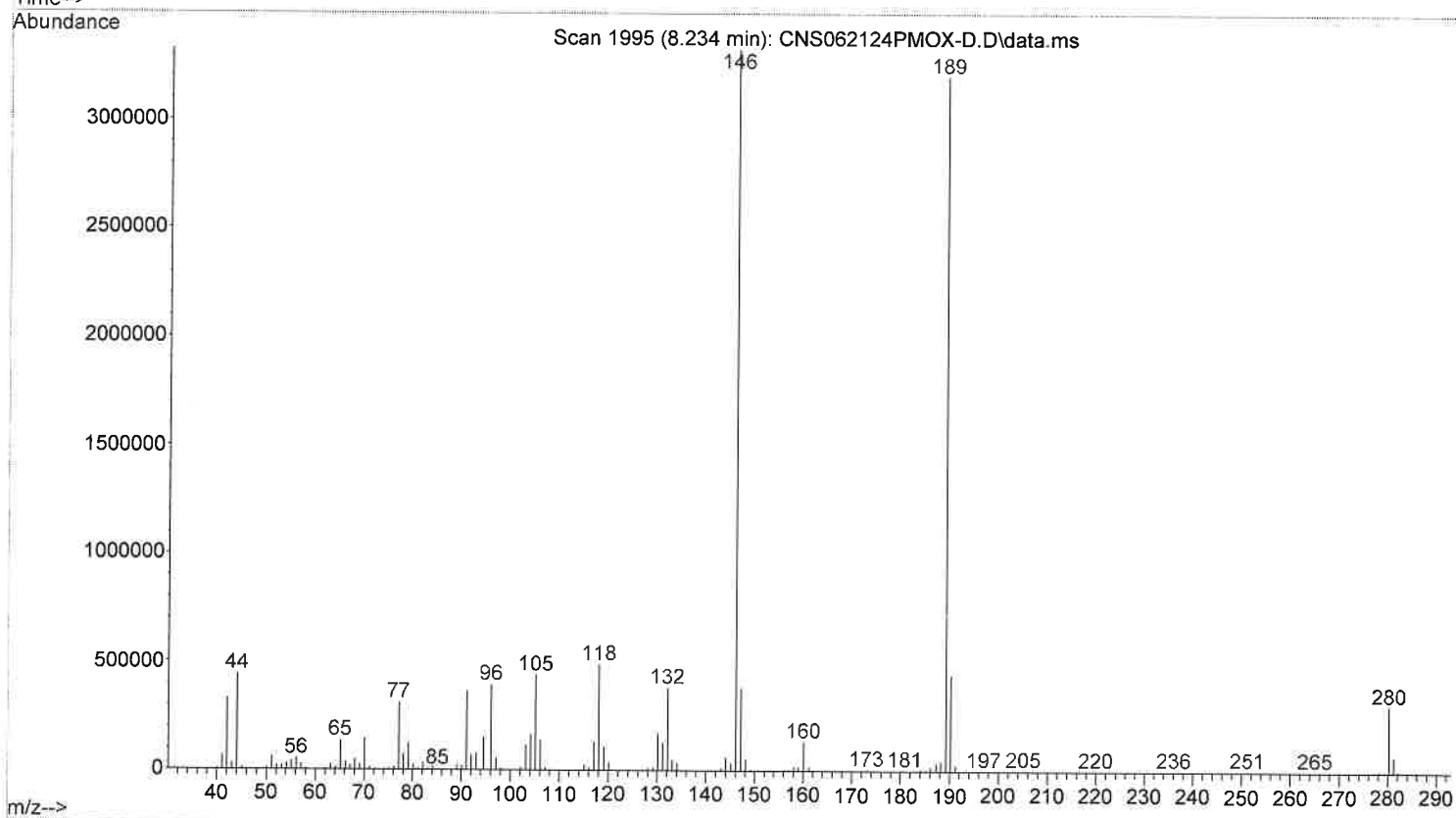
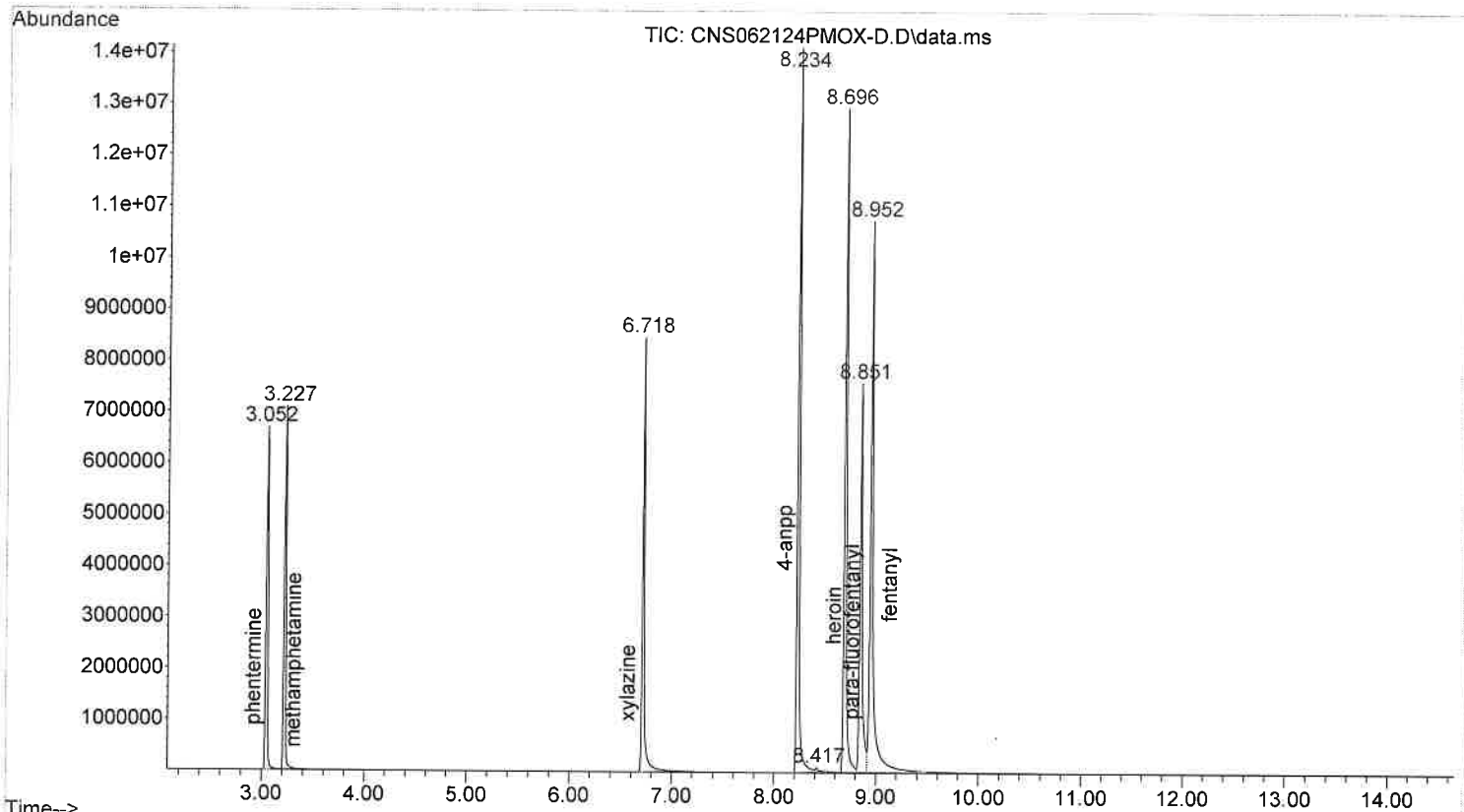
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Operator : KLAB
Acquired : 21 Jun 2023 23:54 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



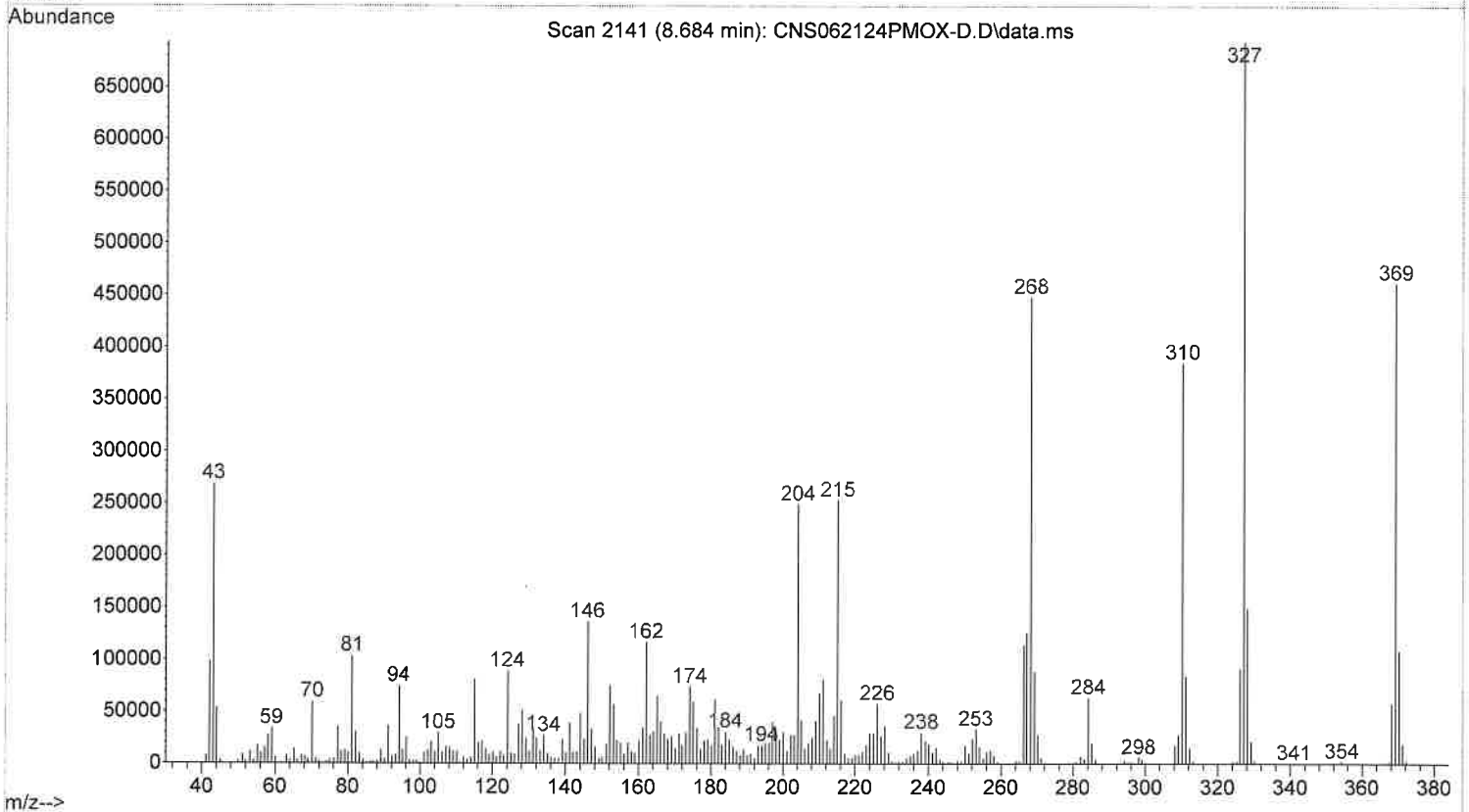
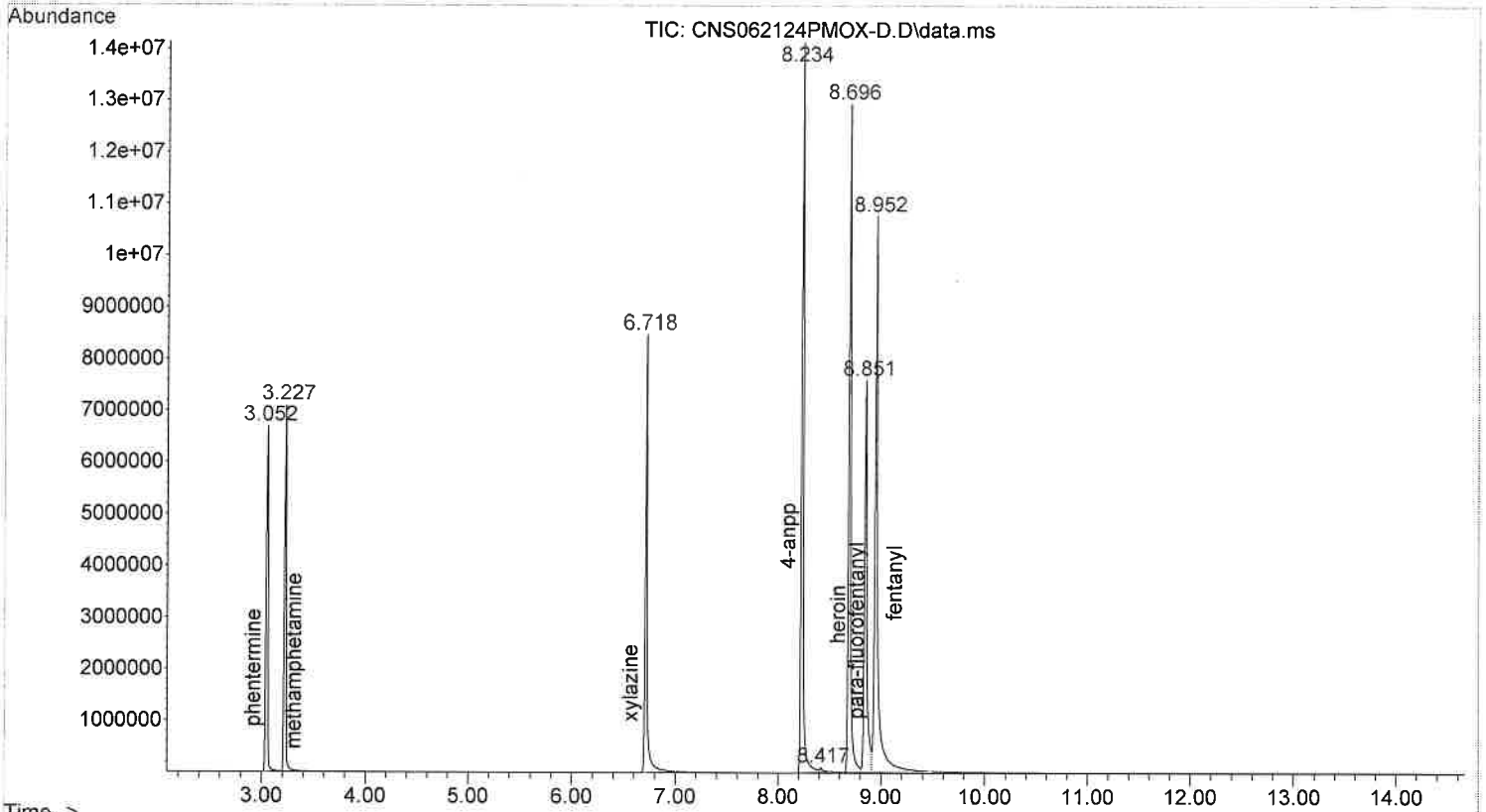
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Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



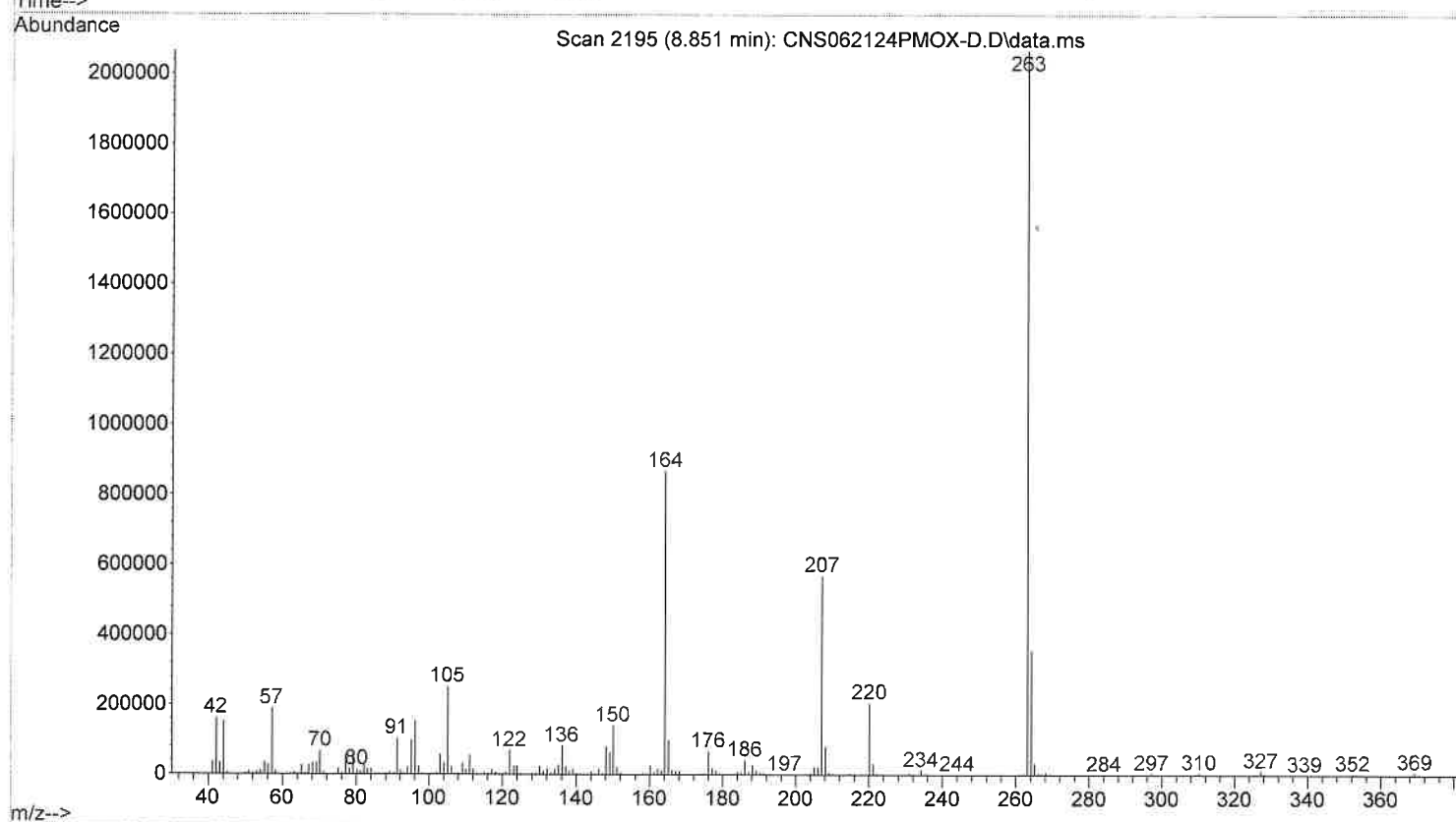
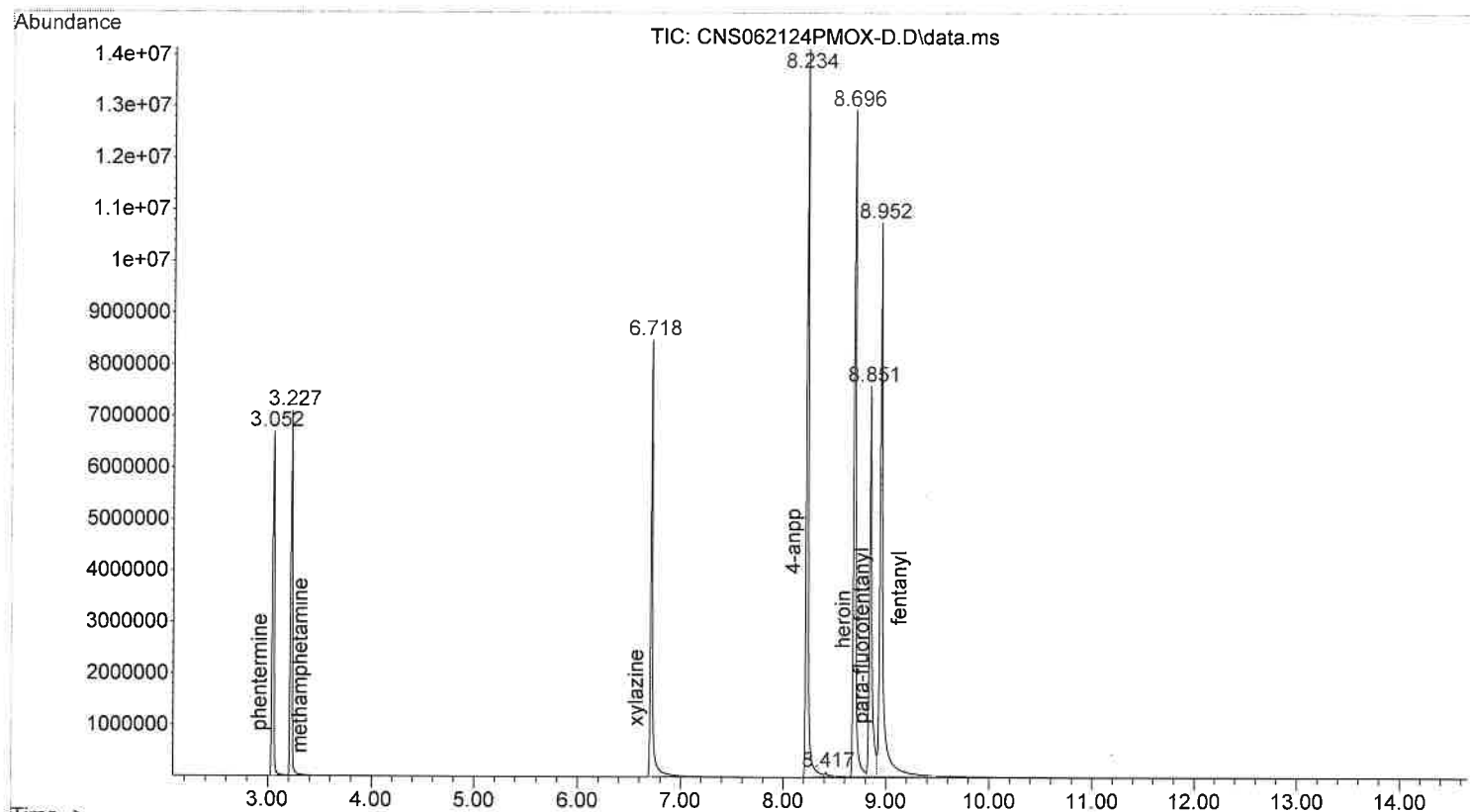
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Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



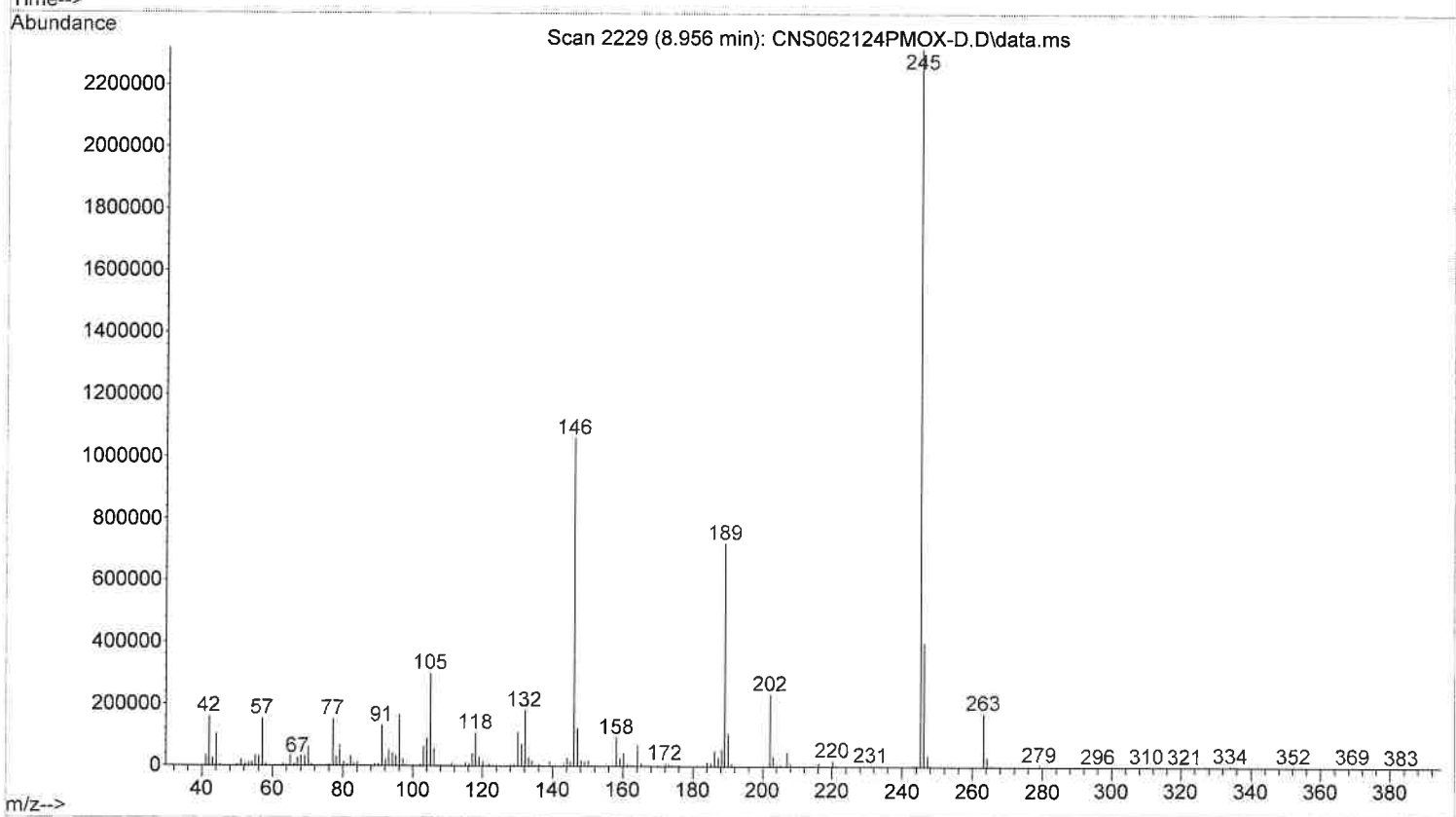
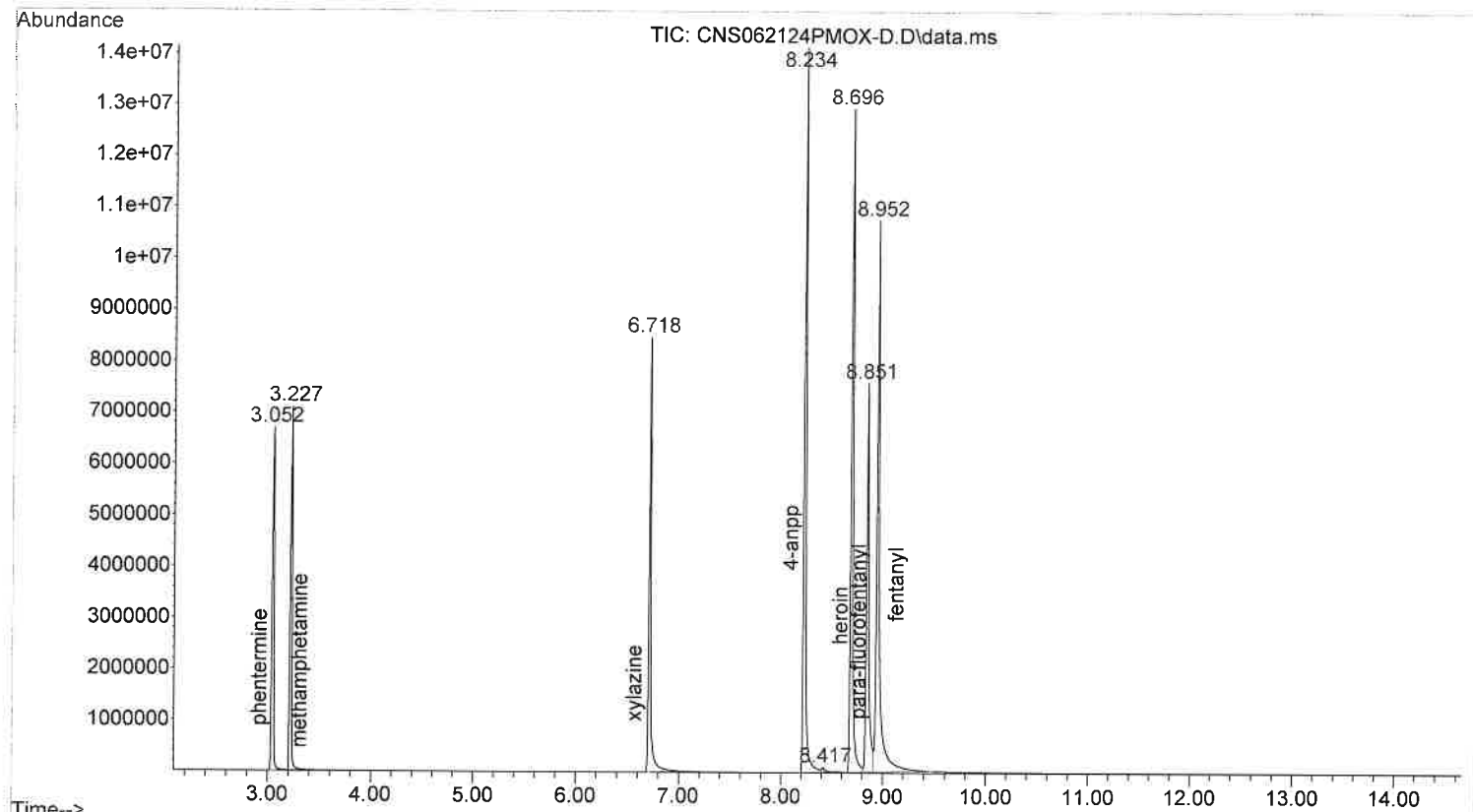
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Operator : KLAB
Acquired : 21 Jun 2023 23:54 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



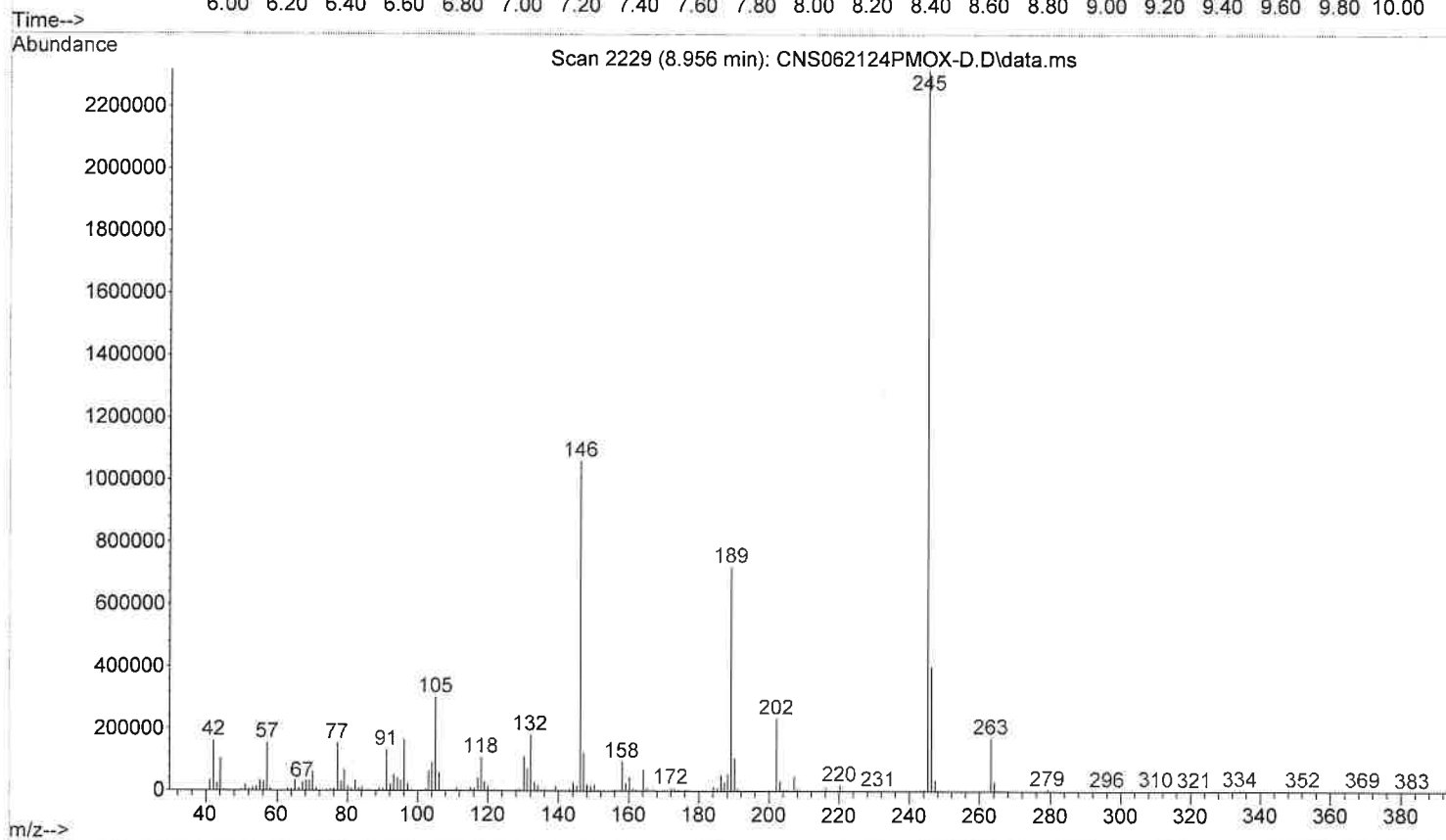
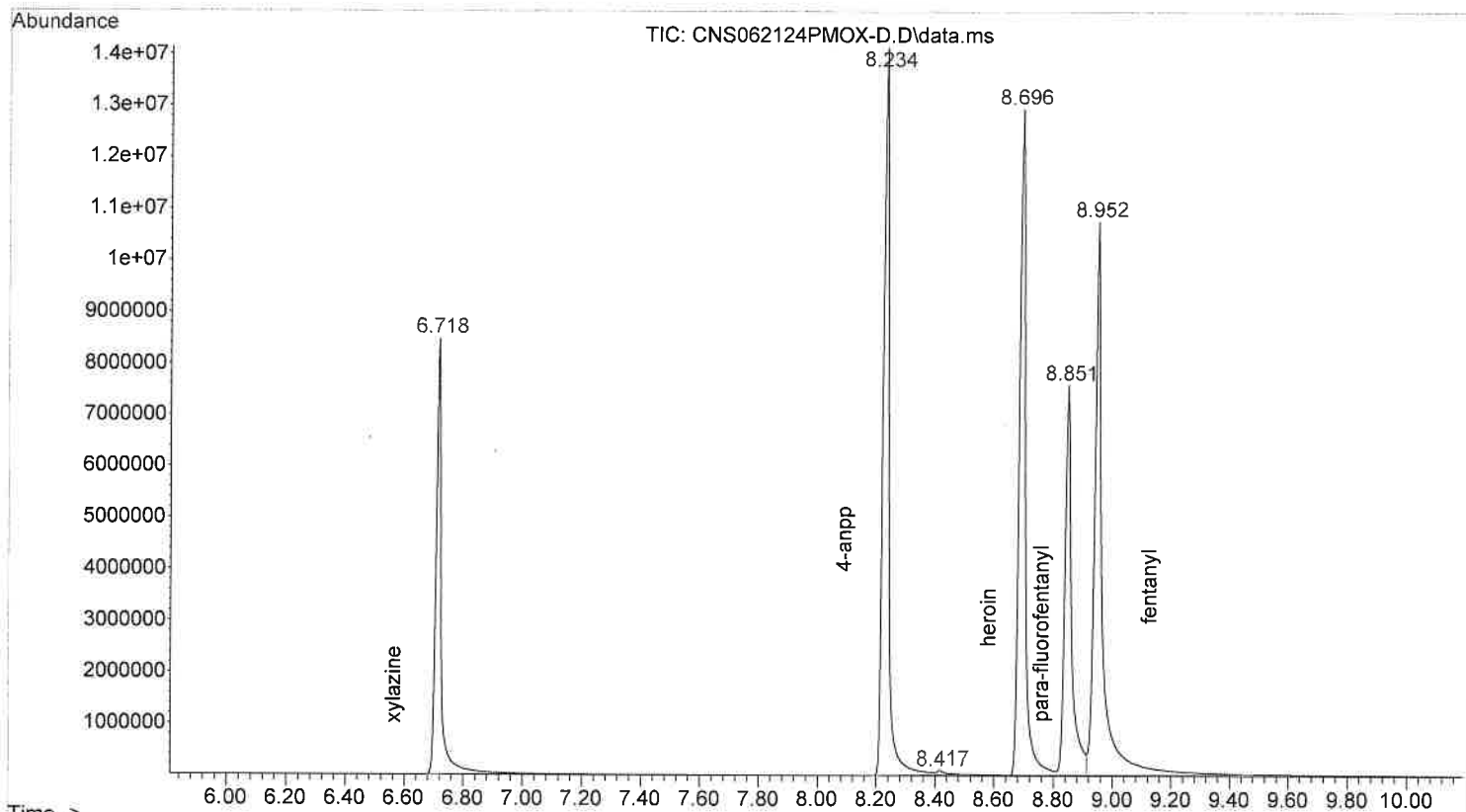
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Operator : KLAB
Acquired : 21 Jun 2023 23:54 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



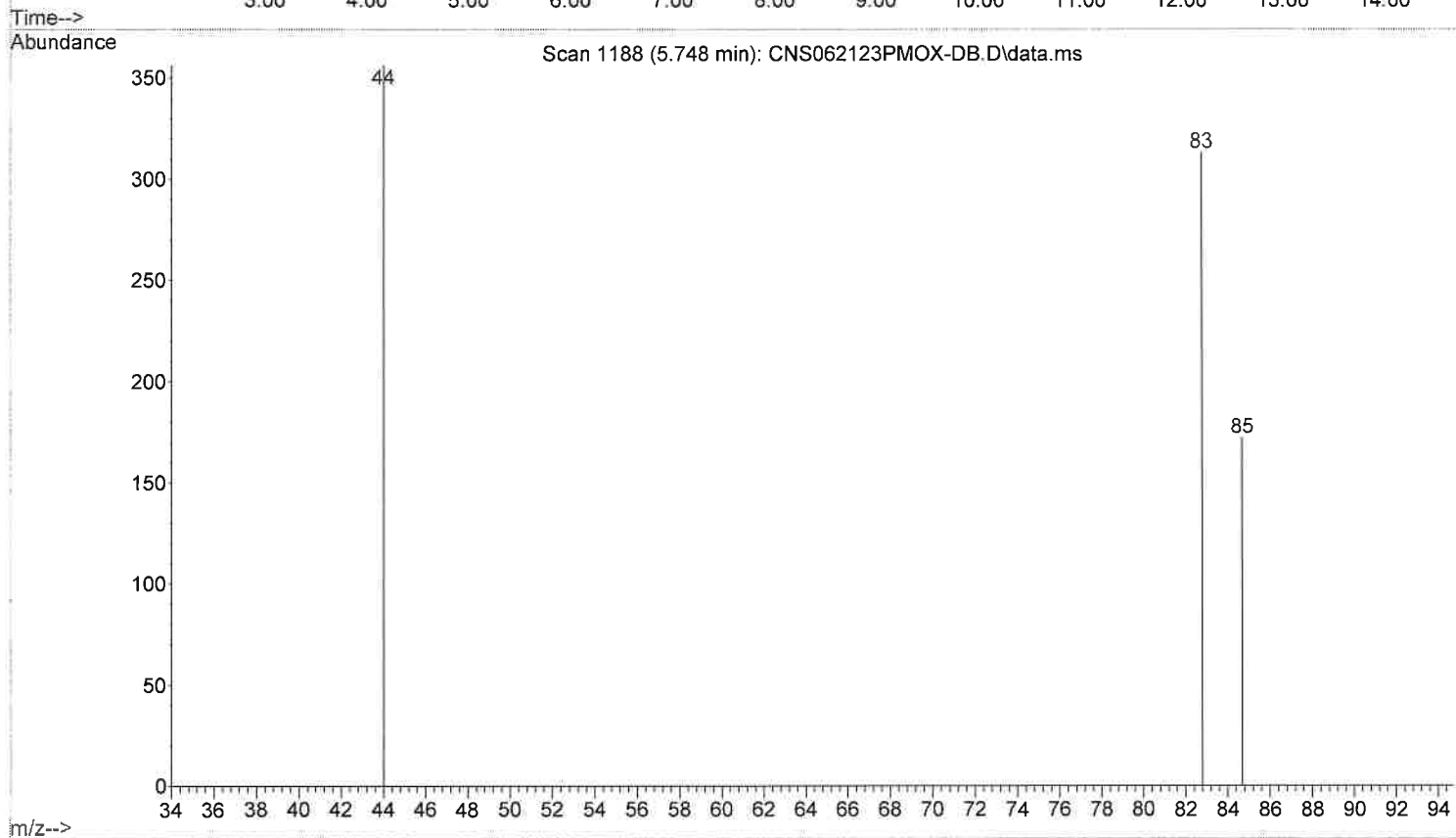
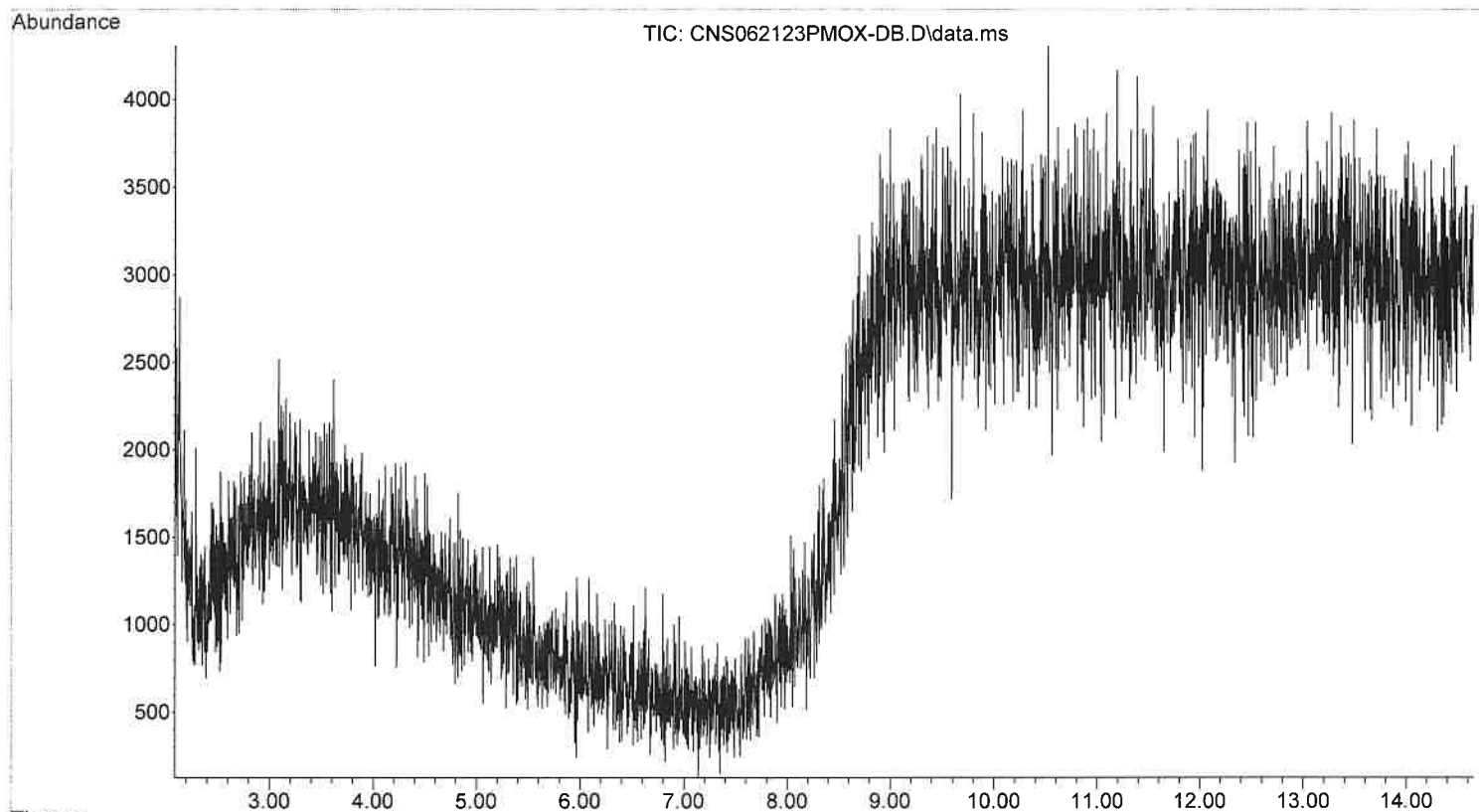
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Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



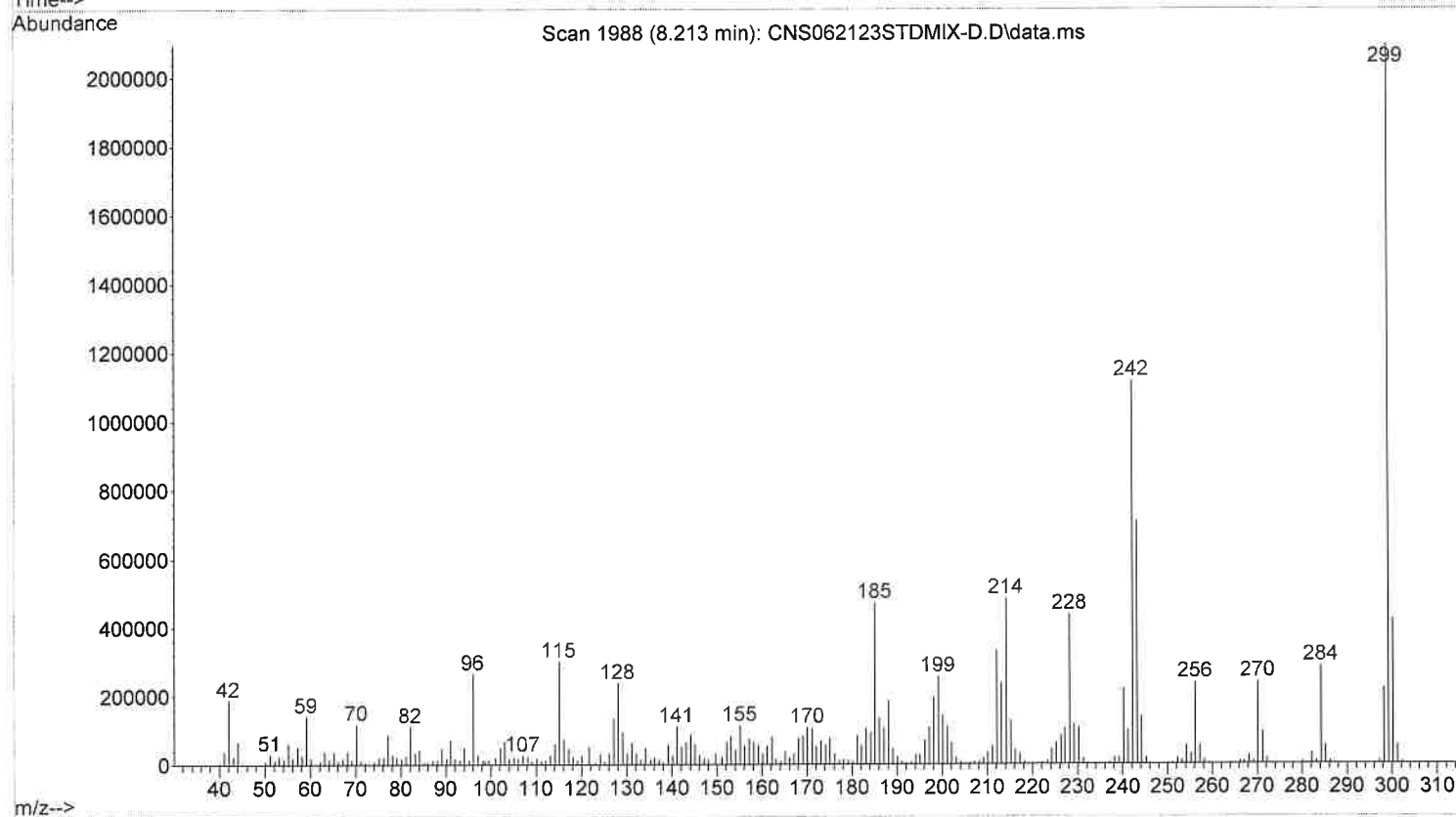
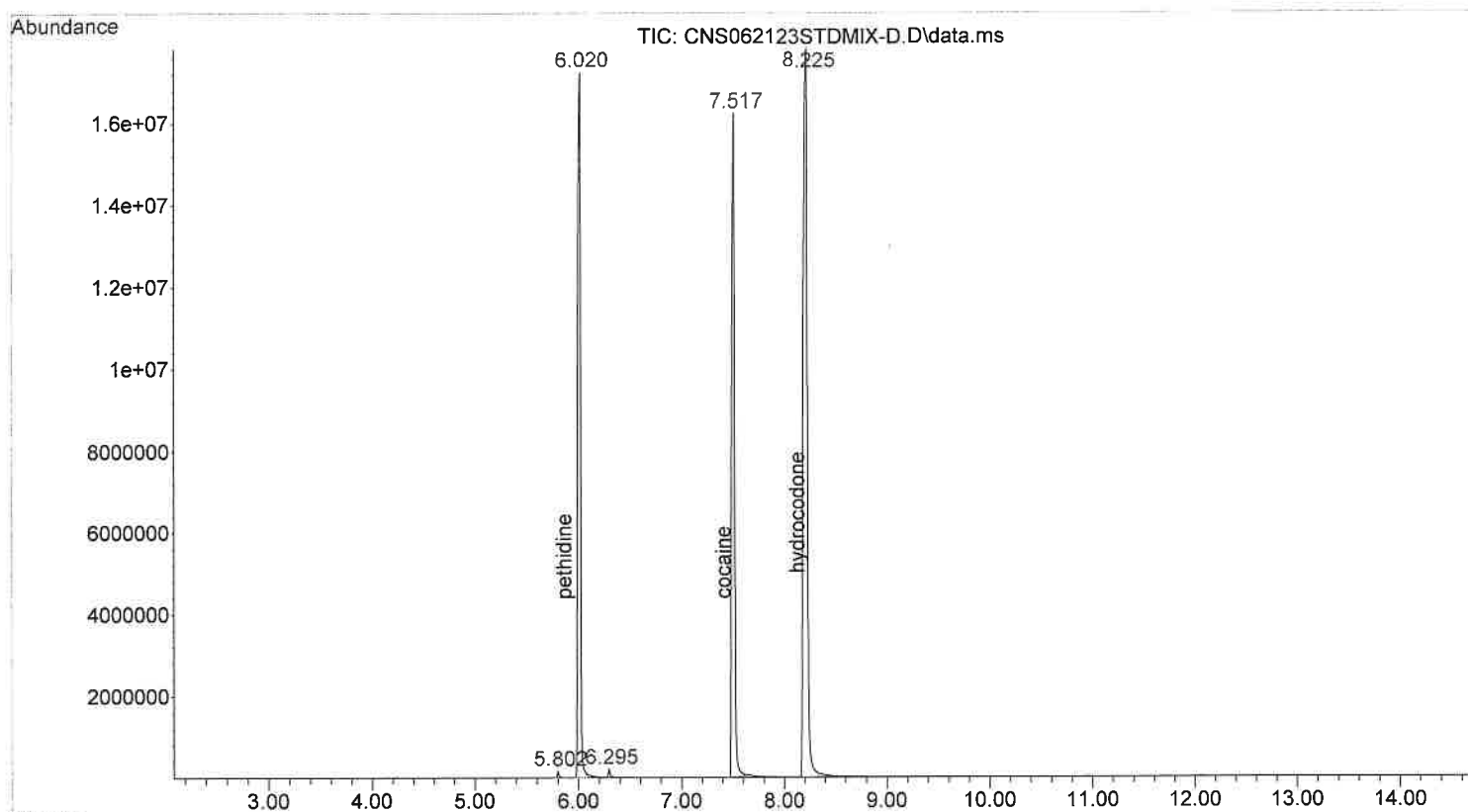
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Instrument : Precious
Sample Name: P-MOX STD MIX
Misc Info : CHCl3
Vial Number: 3



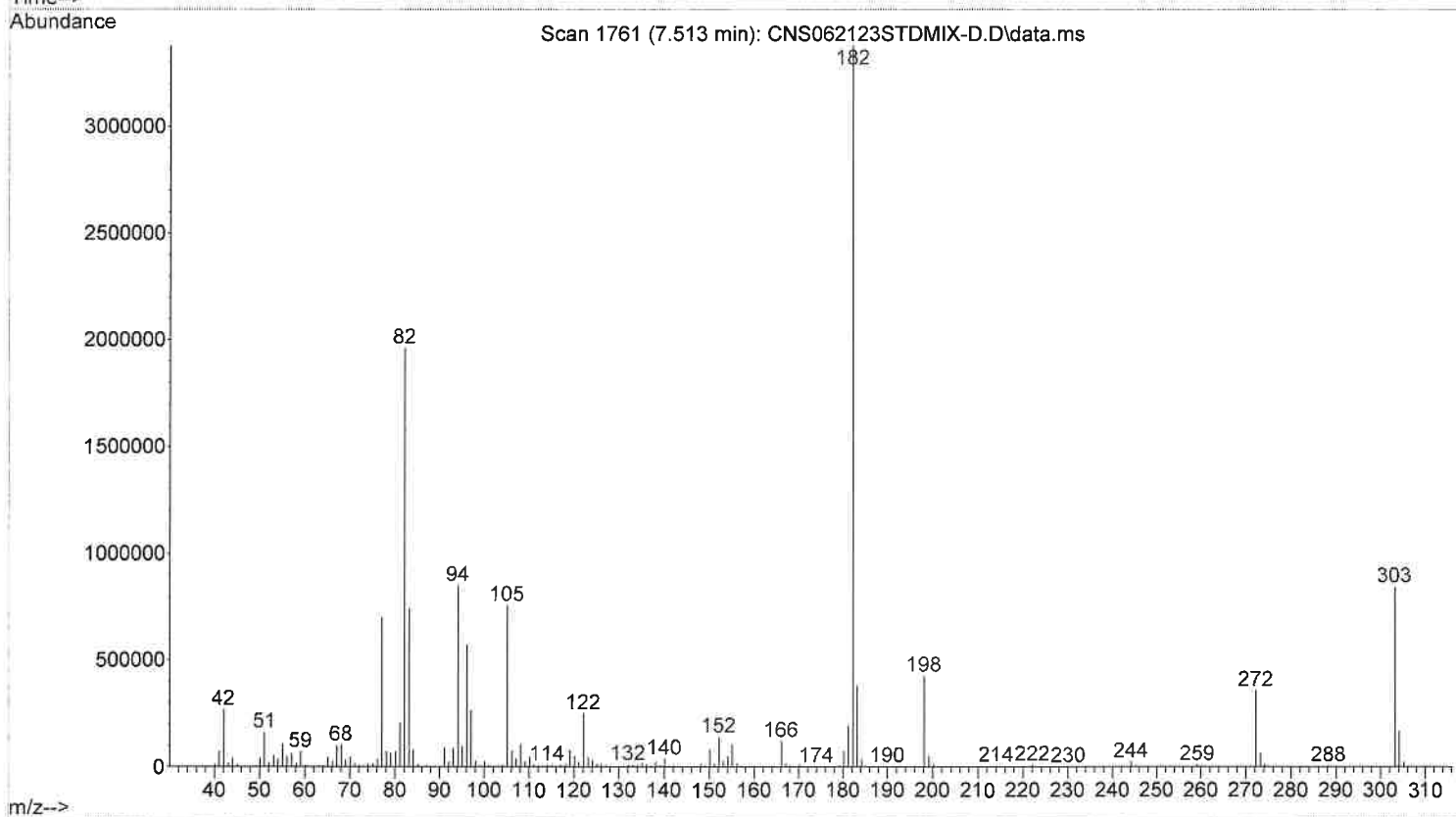
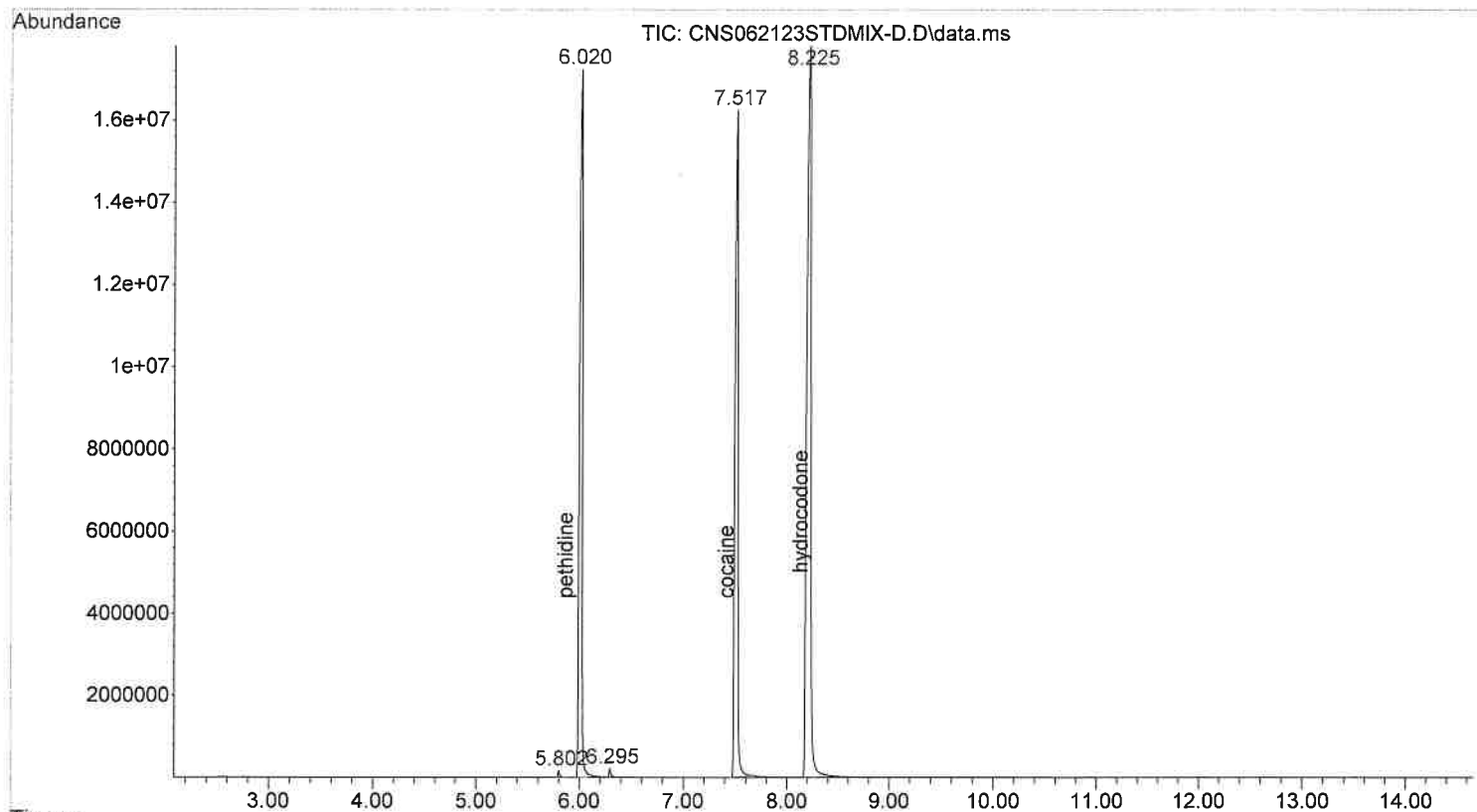
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Operator : KLAB
Acquired : 21 Jun 2023 23:35 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : P-MOX STD MIX
Vial Number: 2



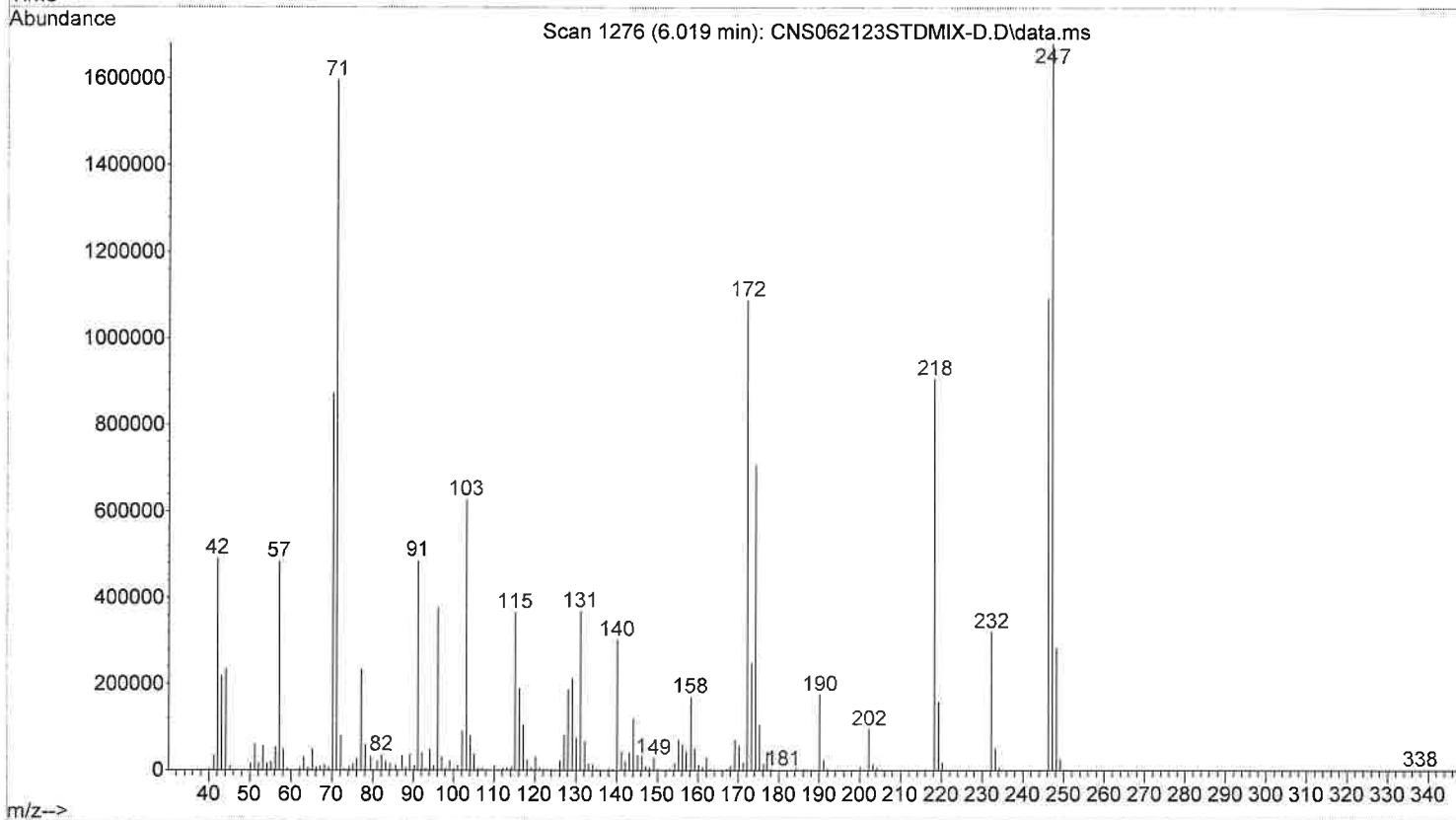
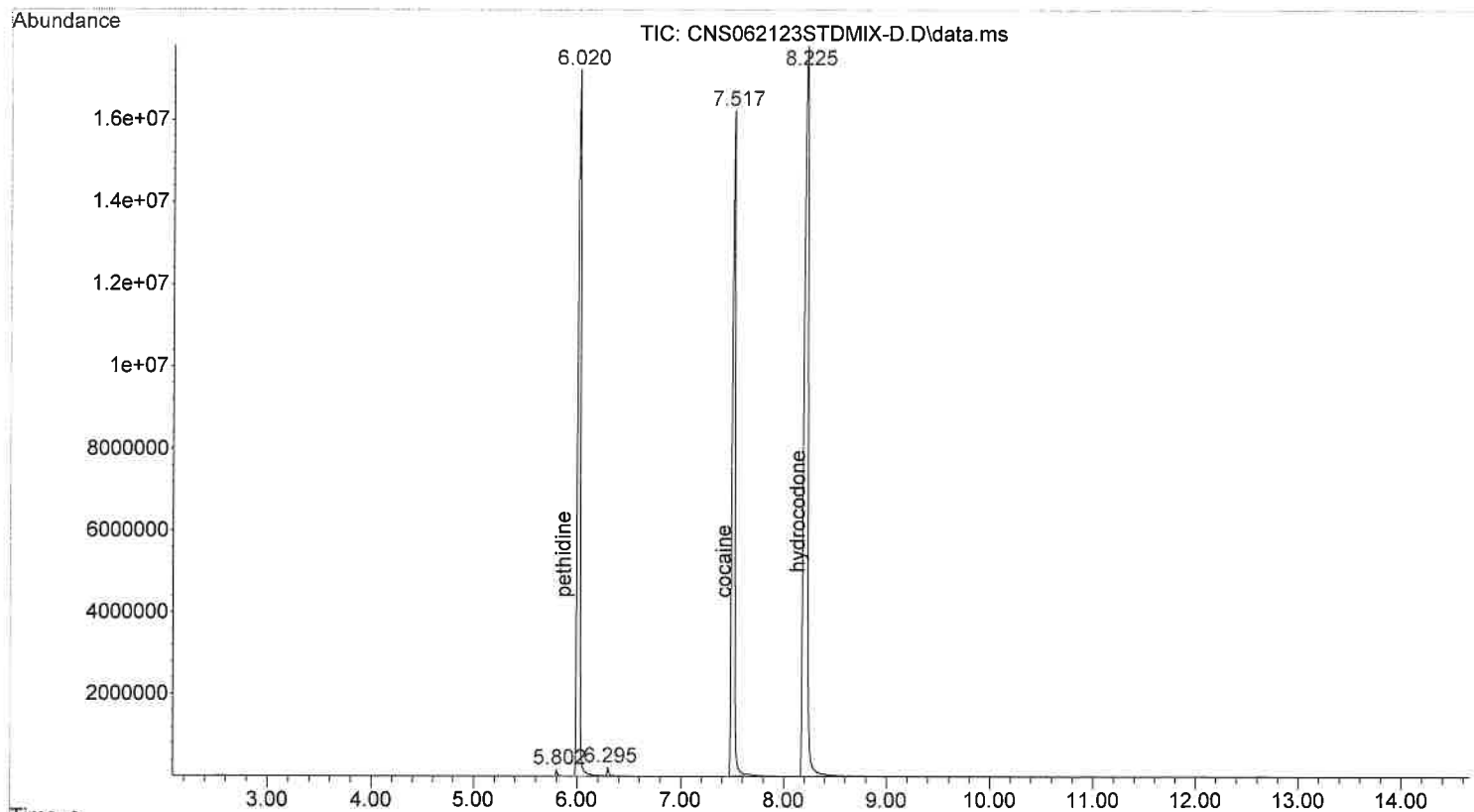
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Operator : KLAB
Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



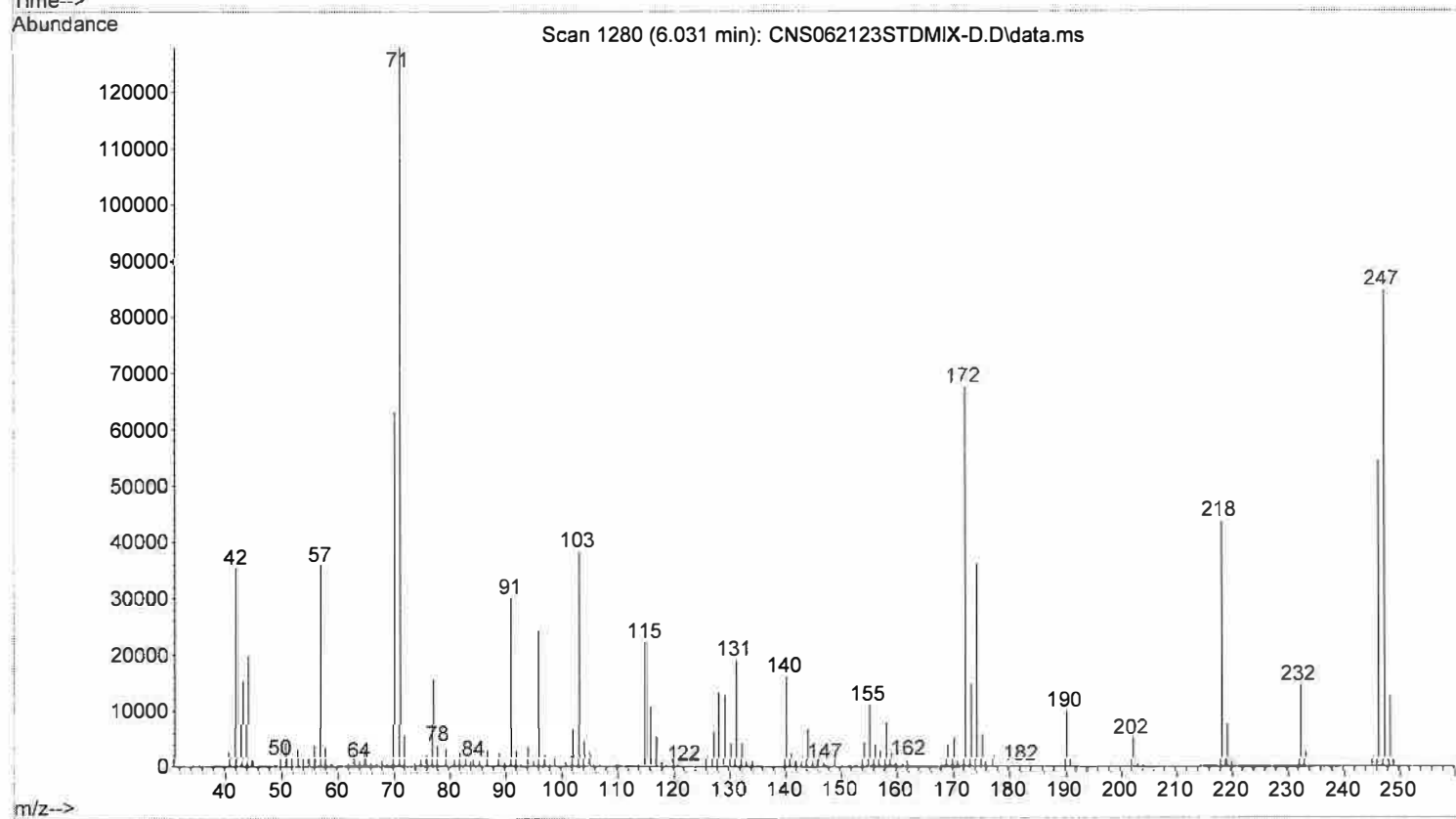
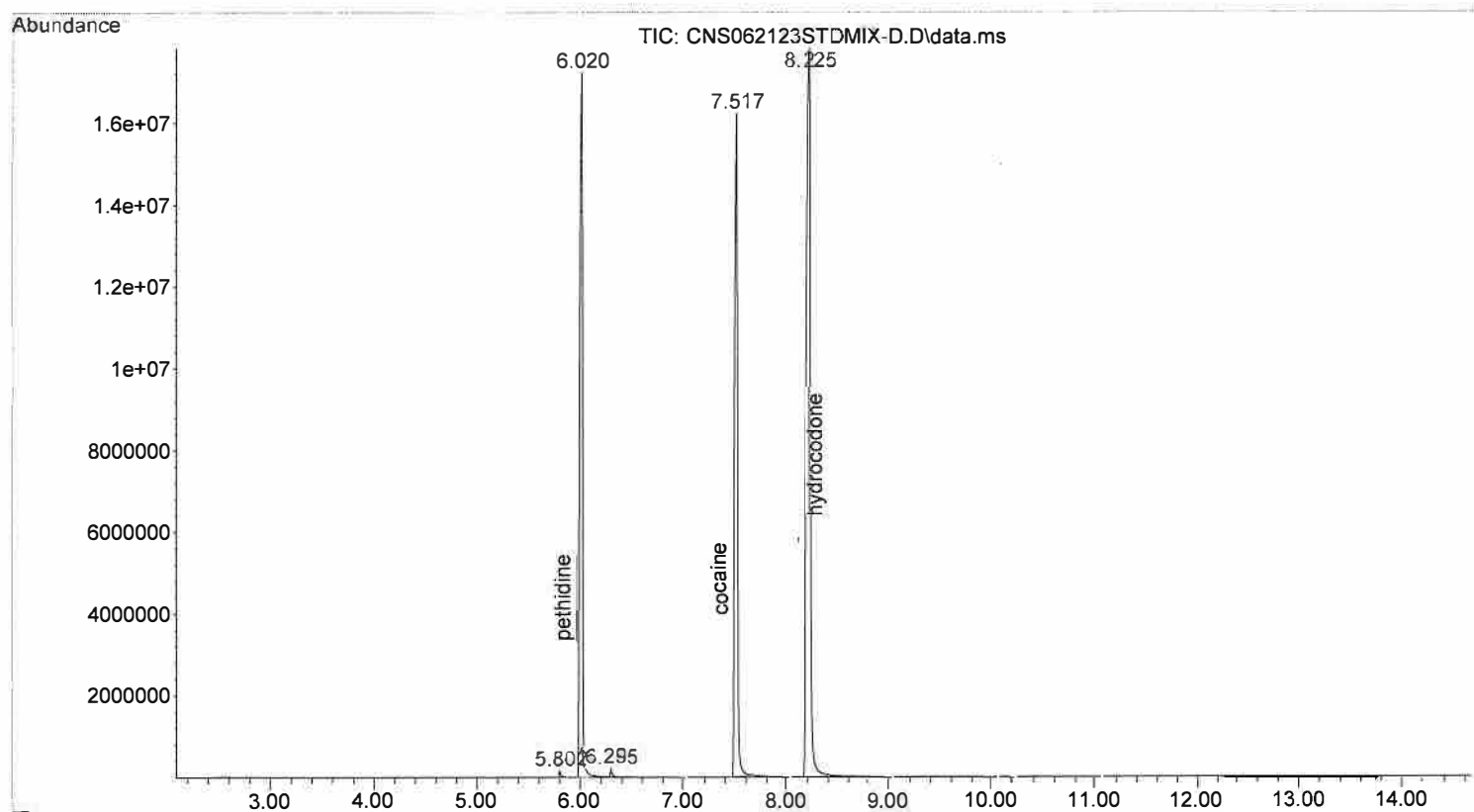
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Operator : KLAB
Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



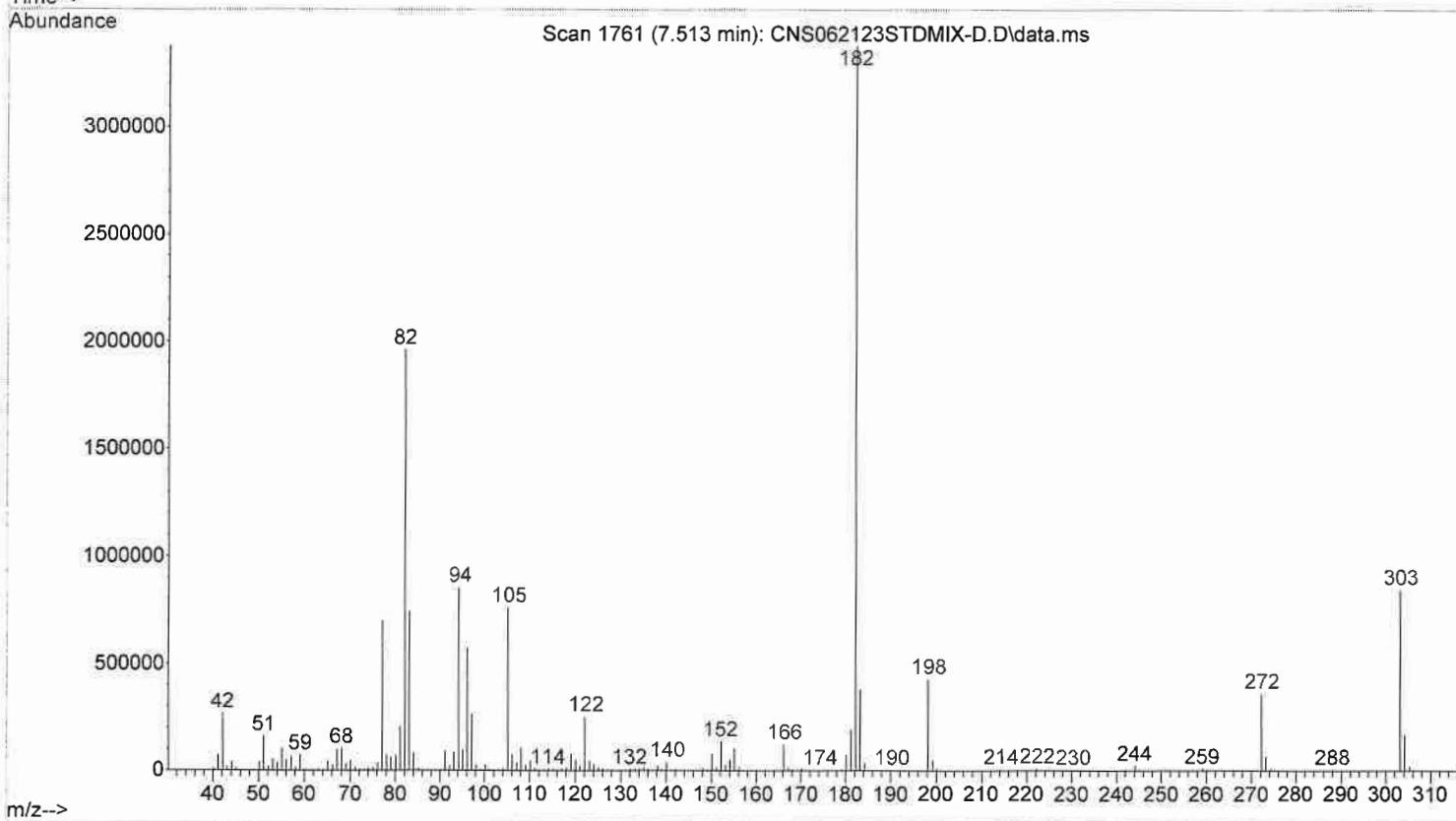
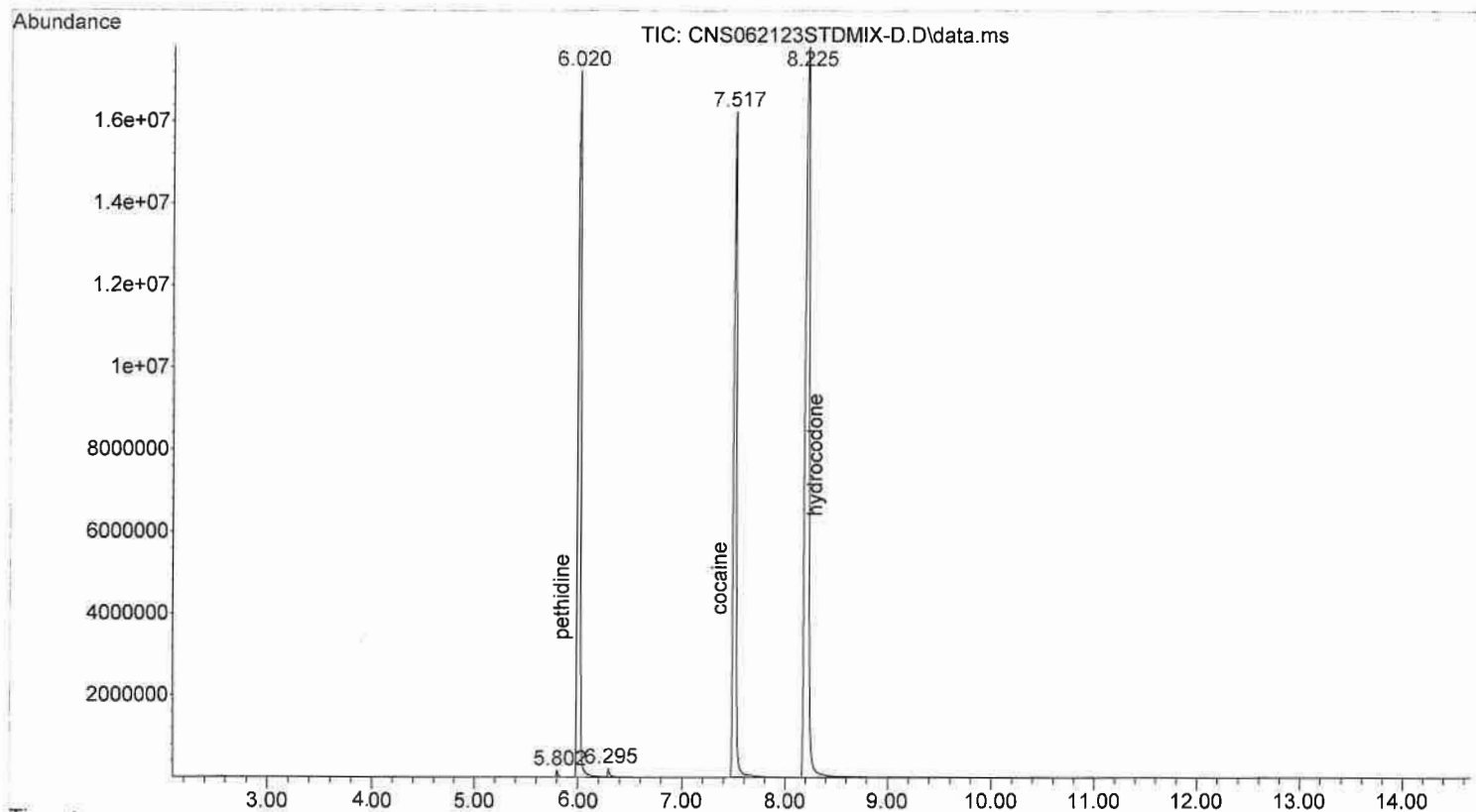
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Operator : KLAB
Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



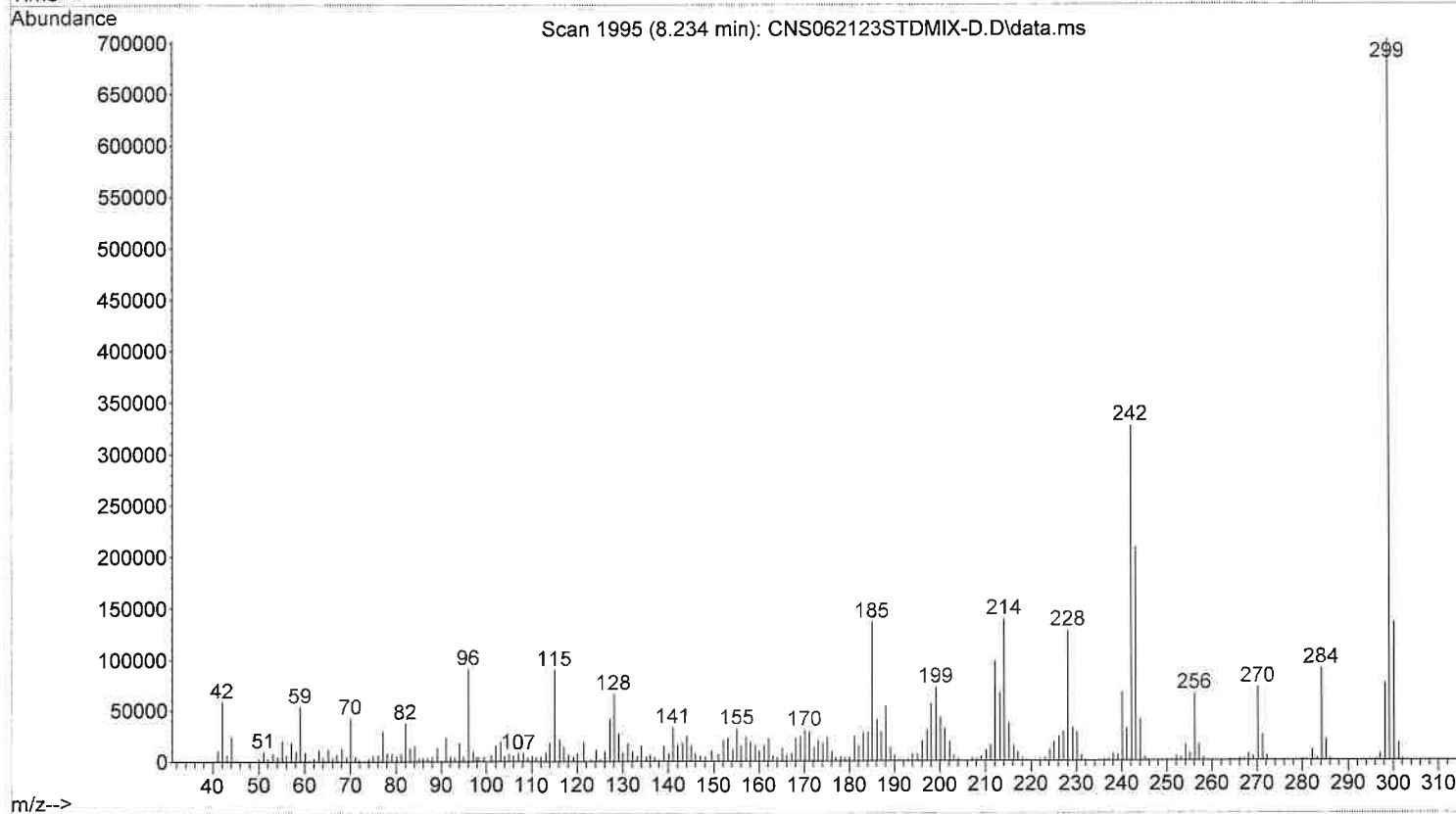
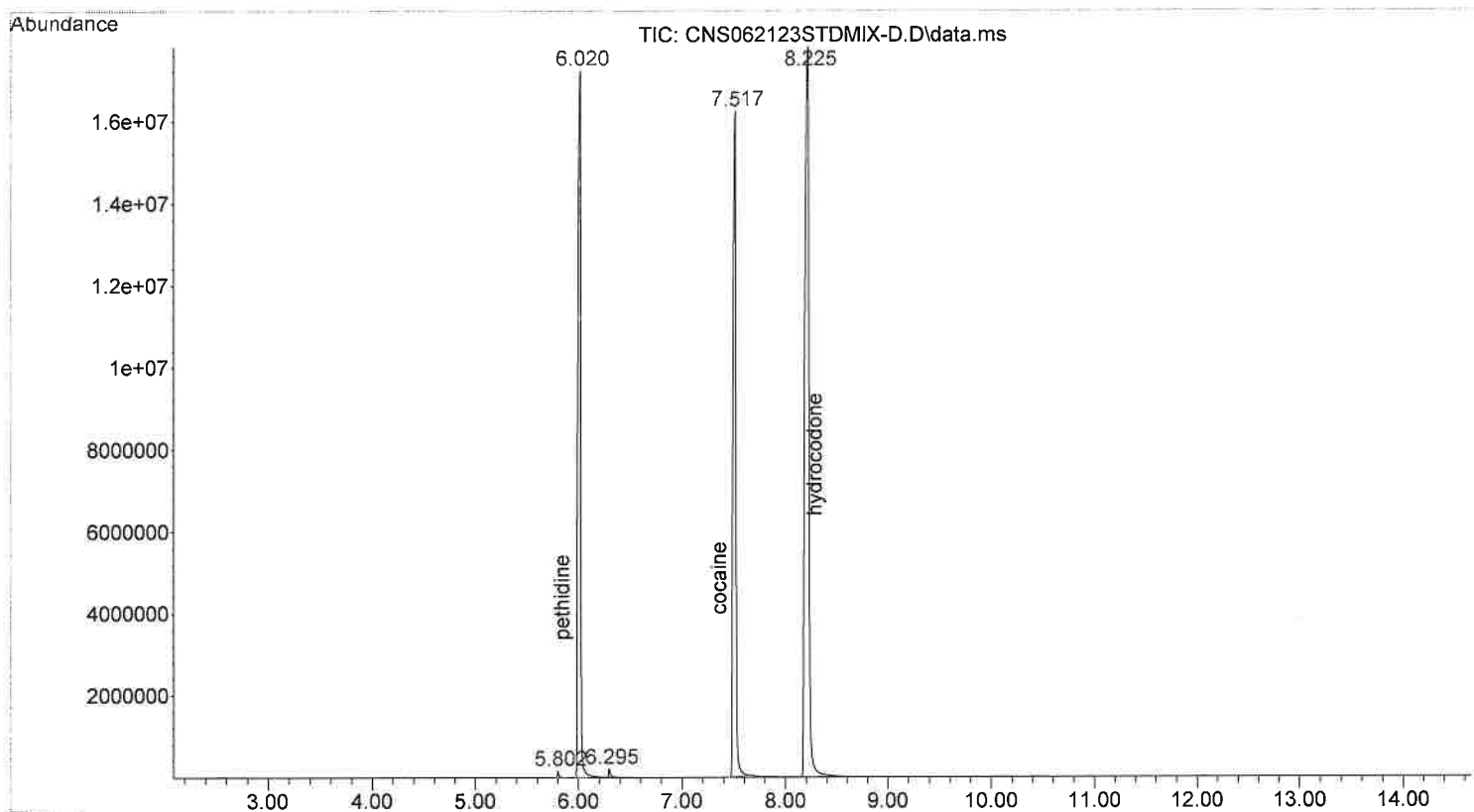
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Operator : KLAB
Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



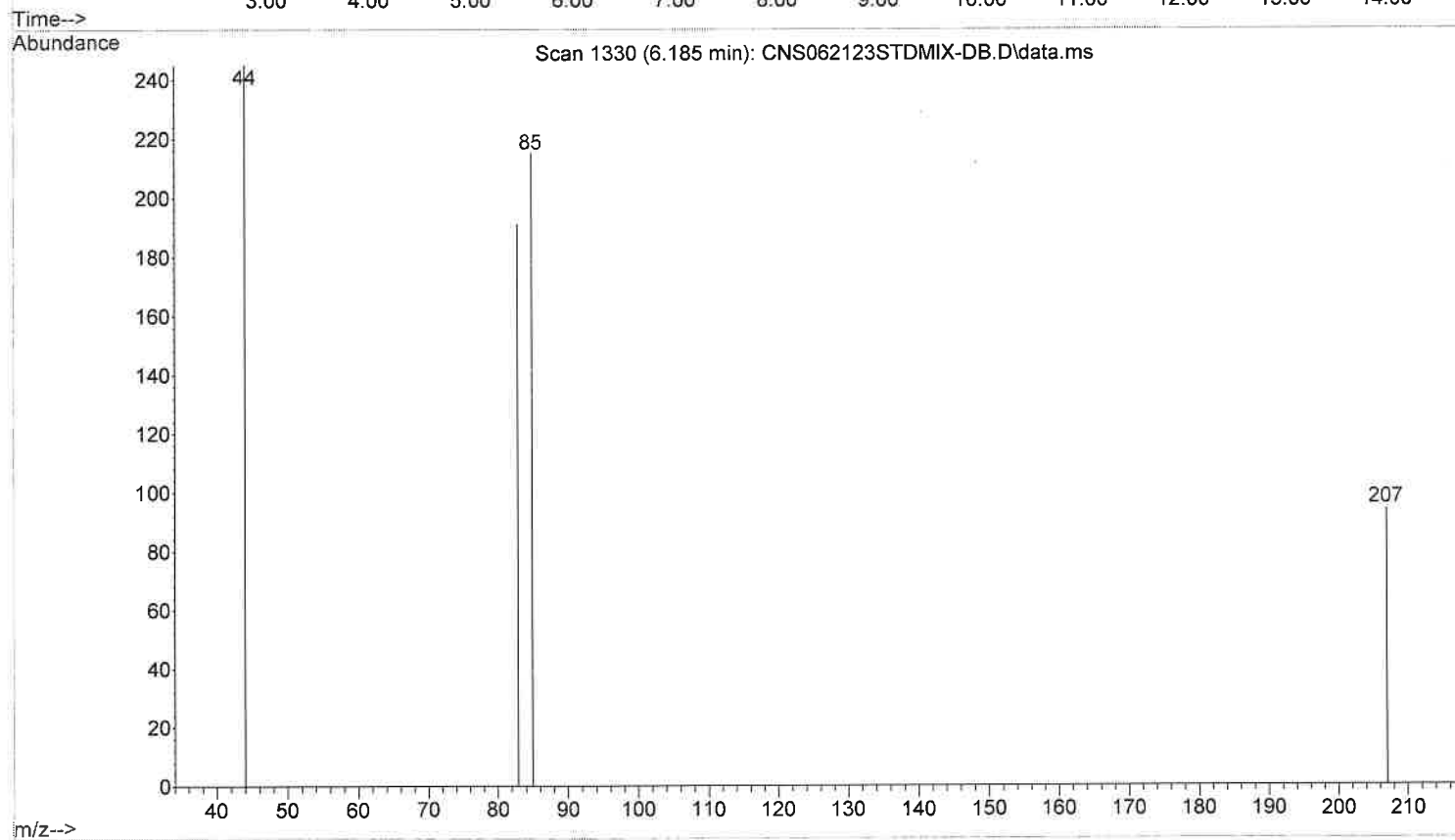
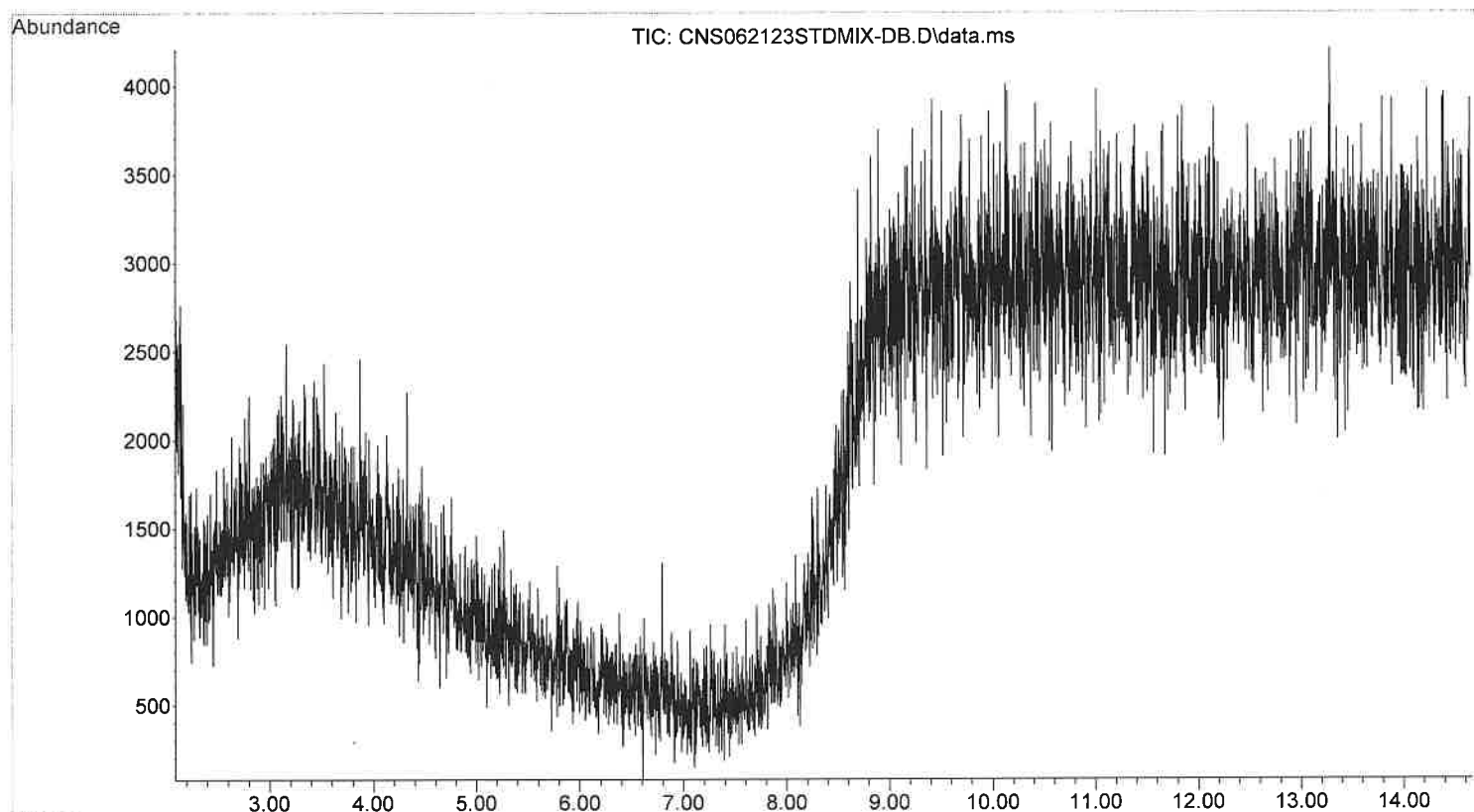
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Operator : KLAB
Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



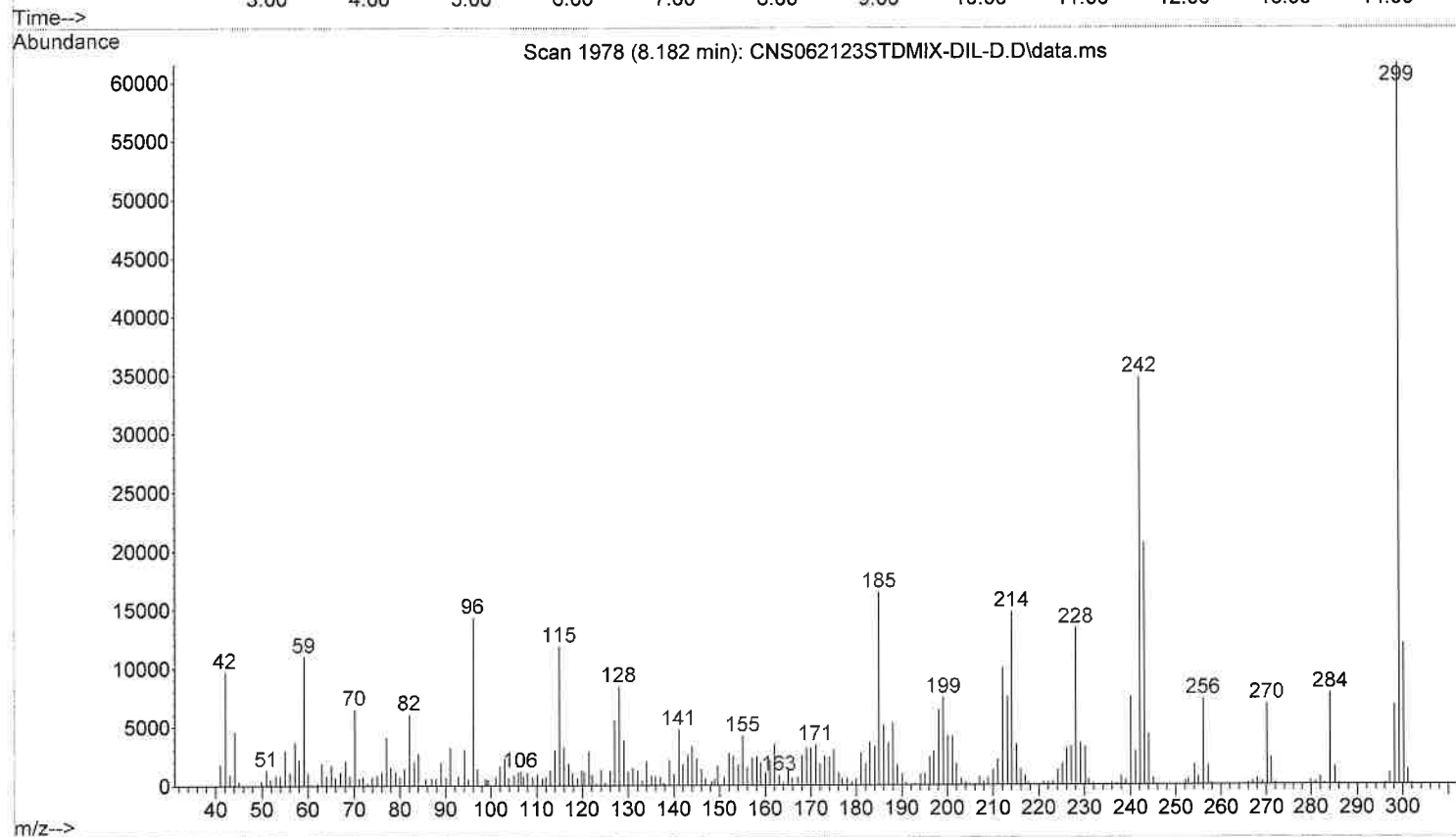
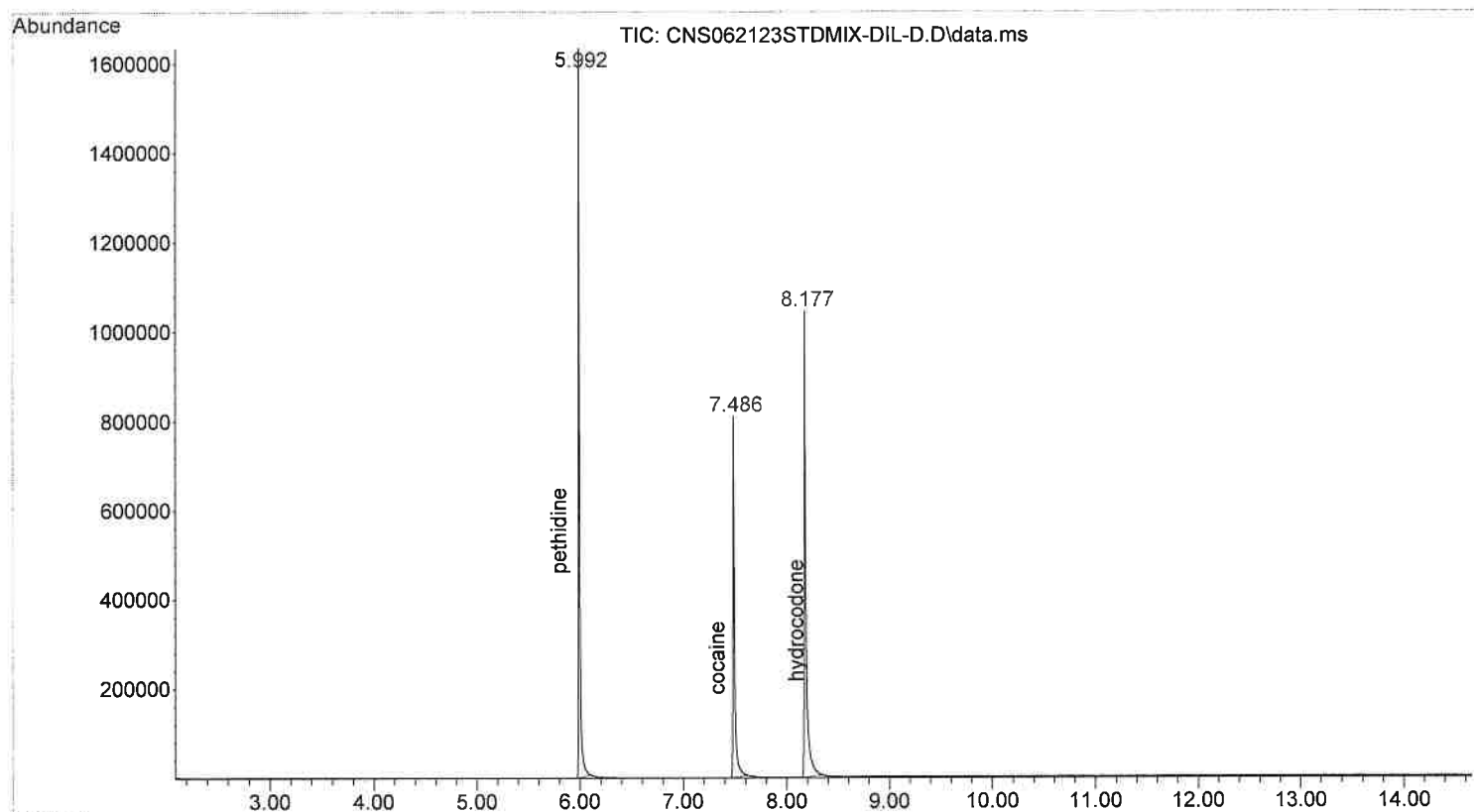
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Acquired : 21 Jun 2023 21:56 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



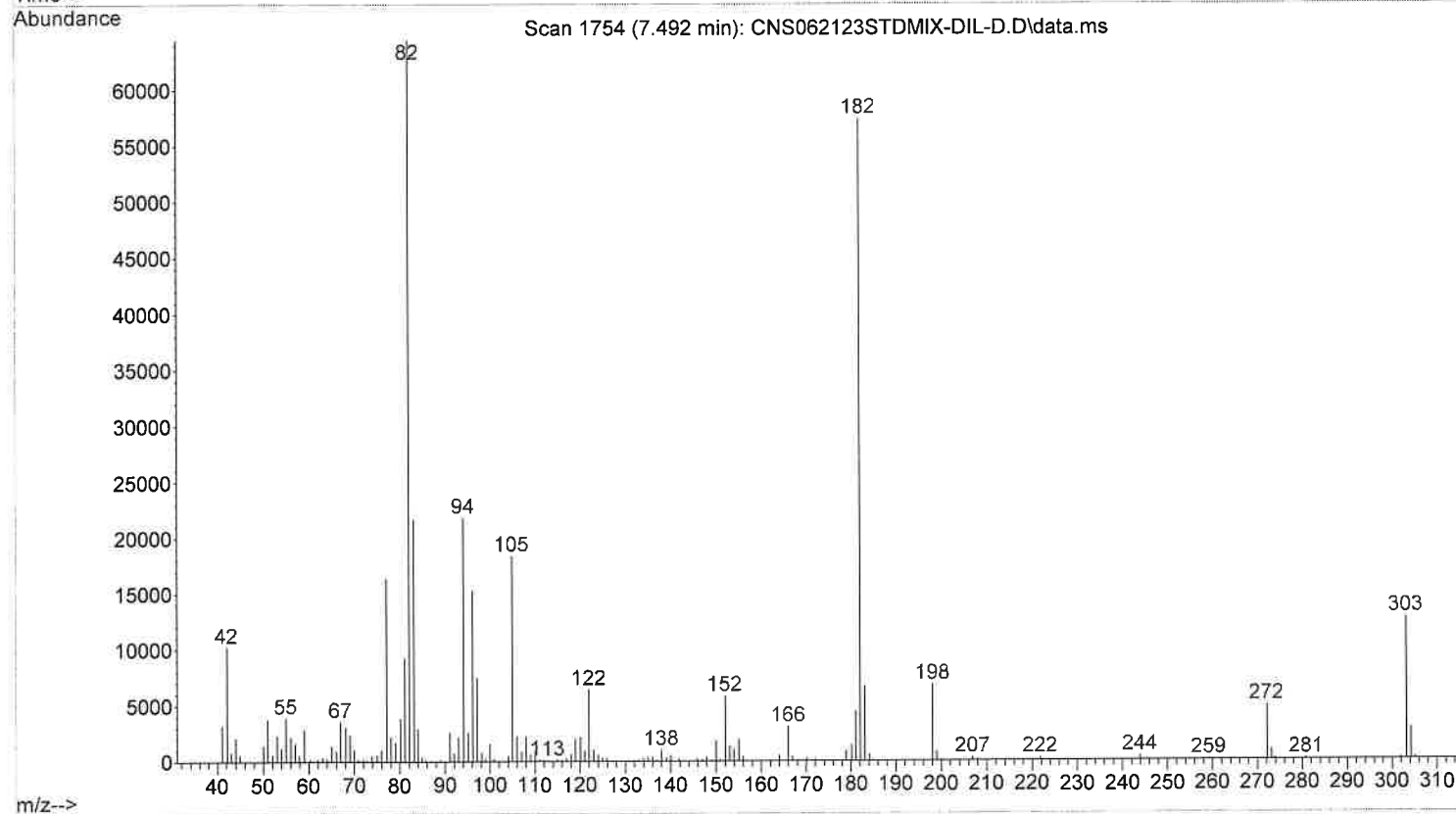
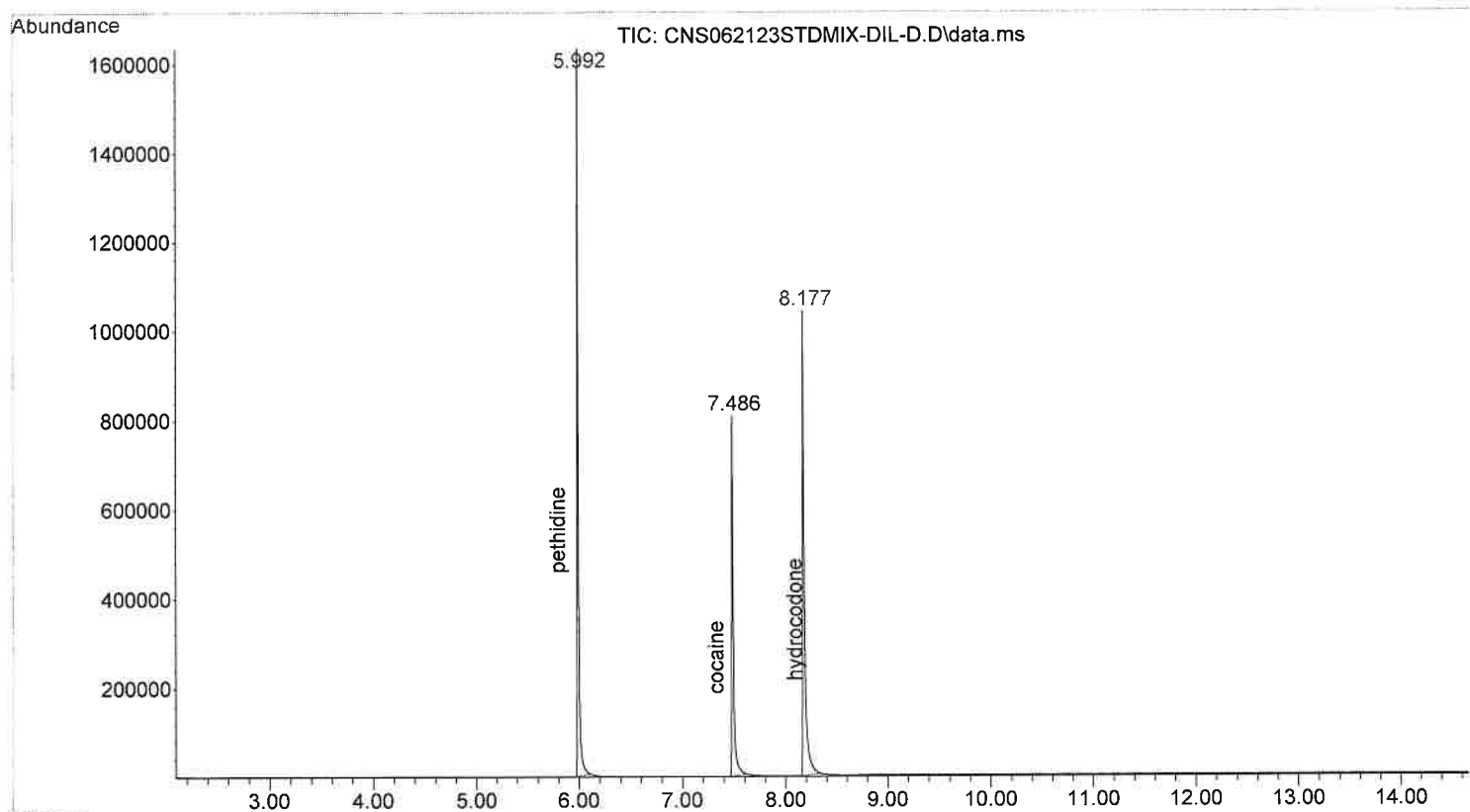
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Operator : KLAB
Acquired : 21 Jun 2023 21:37 using AcqMethod DRUG.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX
Vial Number: 2



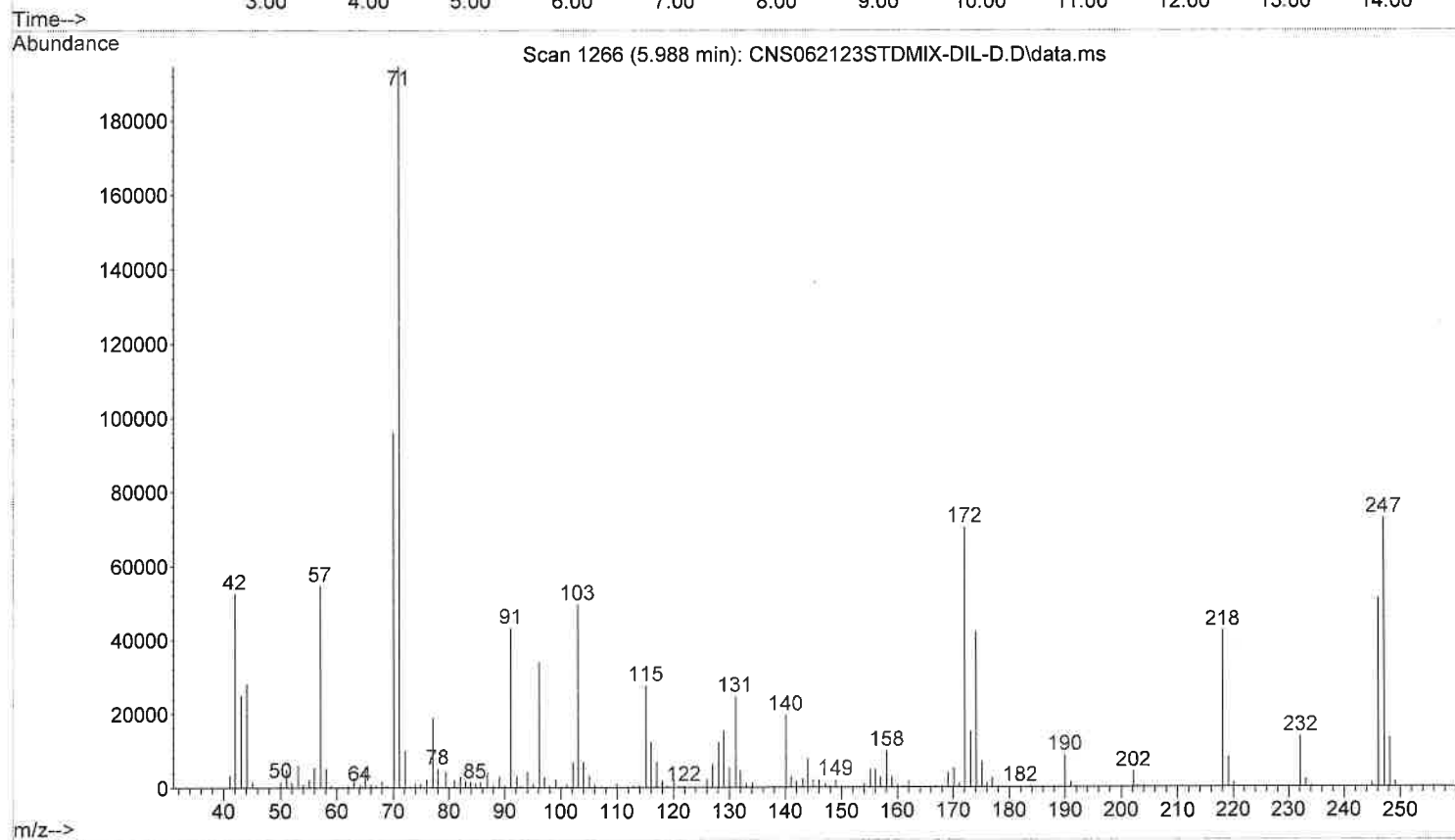
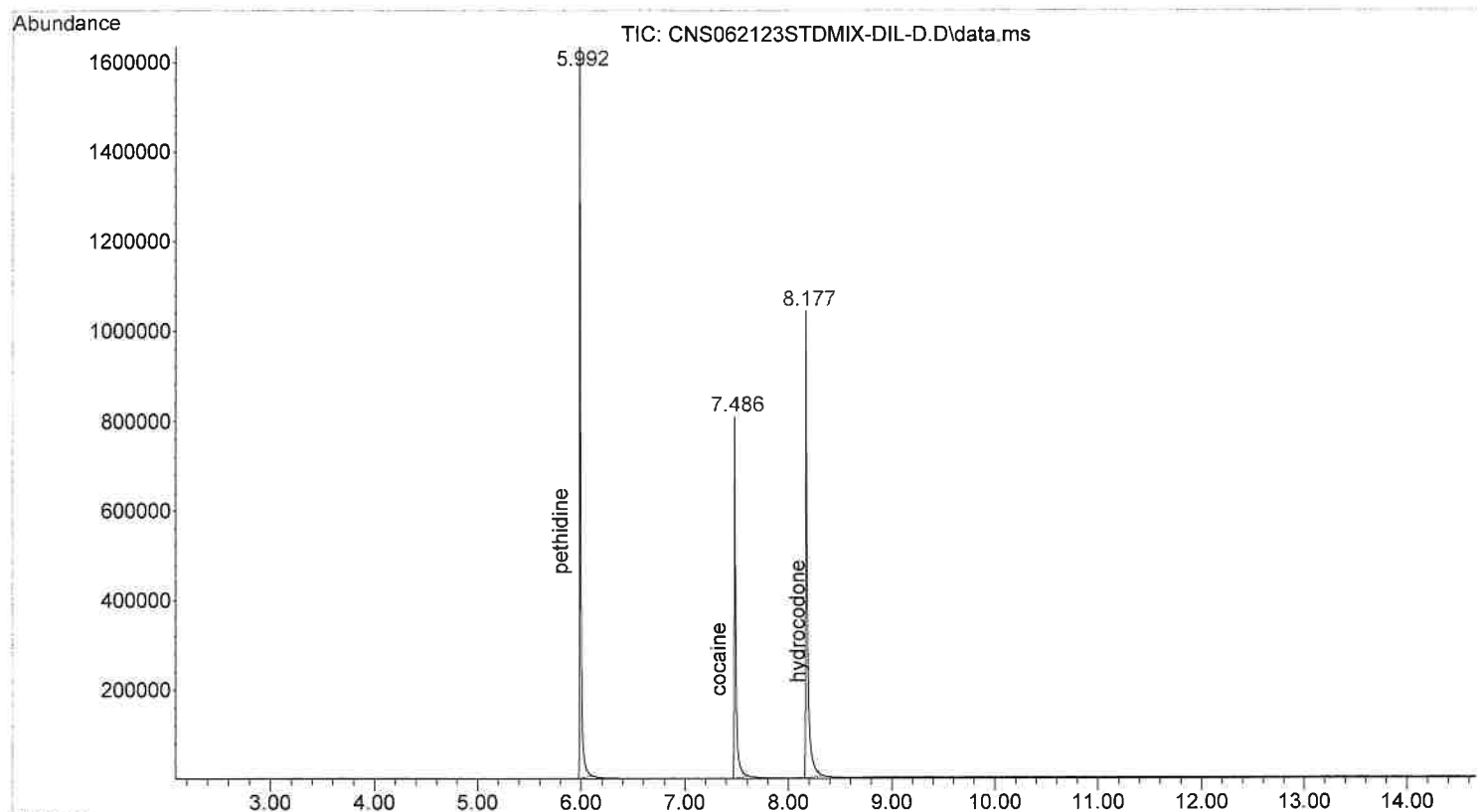
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... .D
Operator : KLAB
Instrument : Precious
Acquired : 21 Jun 2023 22:55 using AcqMethod DRUG.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3 (CNS HOOD)



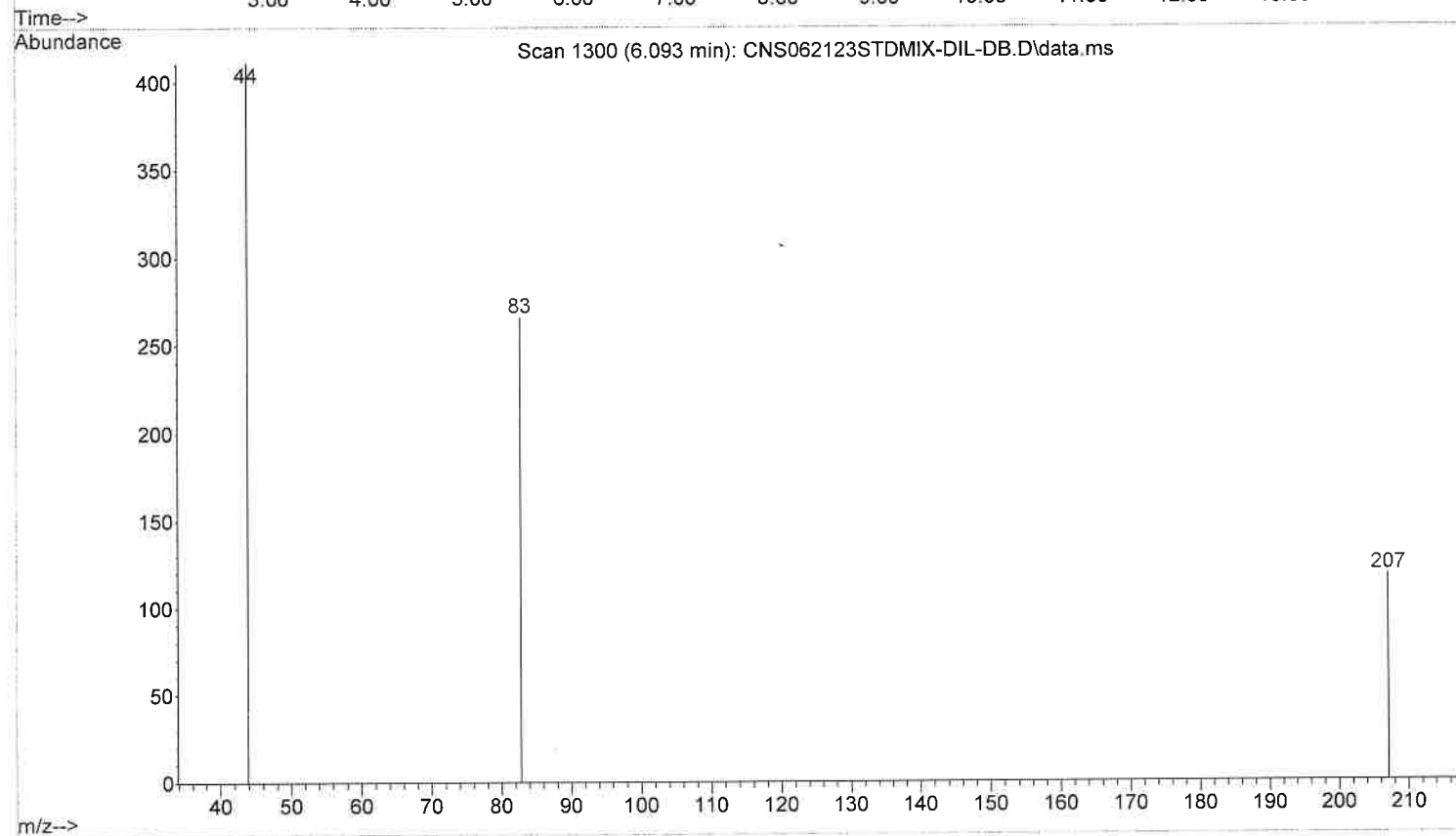
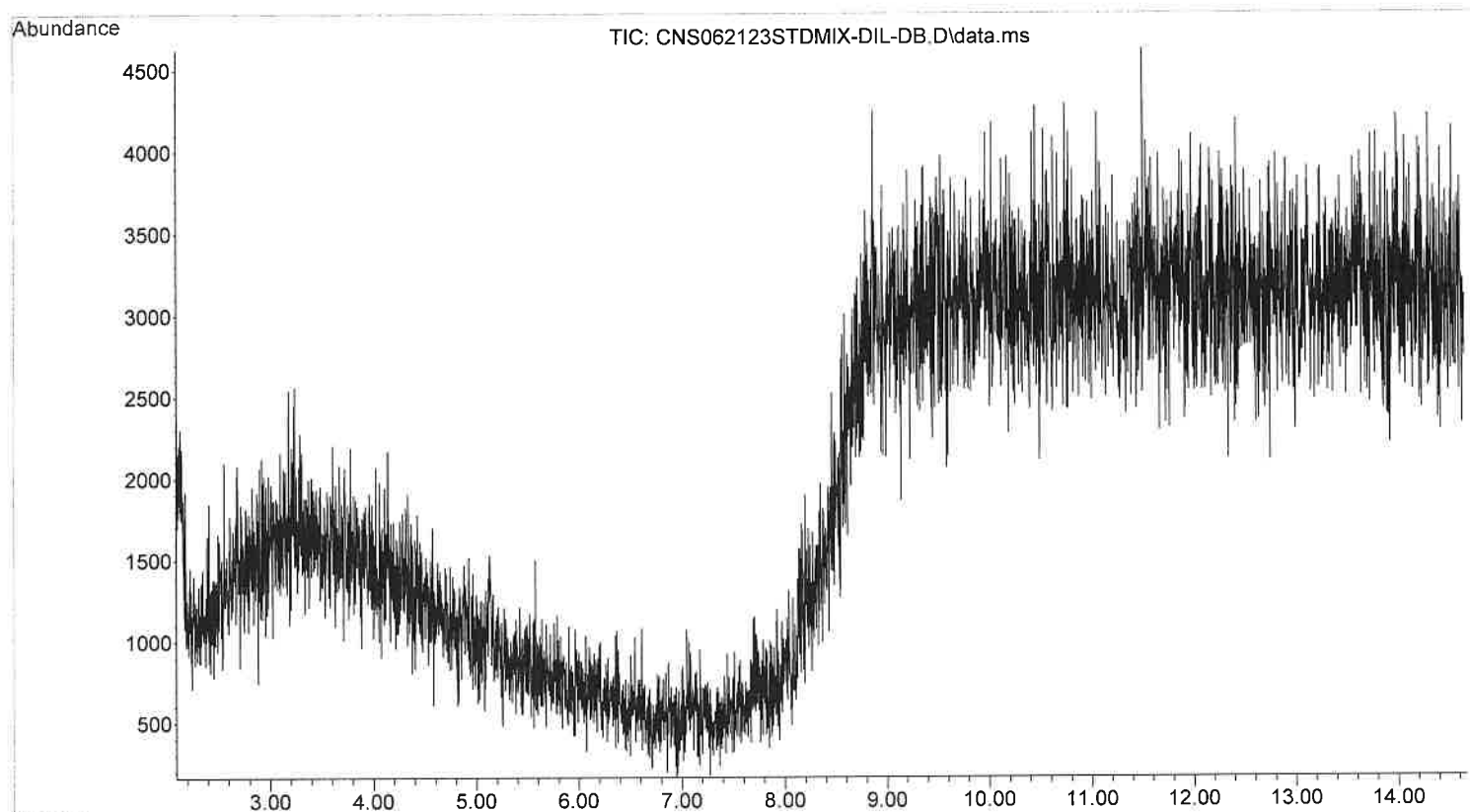
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... .D
Operator : KLAB
Instrument : Precious
Acquired : 21 Jun 2023 22:55 using AcqMethod DRUG.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3 (CNS HOOD)



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STDMIX-DIL-D
... .D
Operator : KLAB
Instrument : Precious
Acquired : 21 Jun 2023 22:55 using AcqMethod DRUG.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3 (CNS HOOD)



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STD MIX-DIL-D
... B.D
Operator : KLAB
Instrument : Precious
Acquired : 21 Jun 2023 22:36 using AcqMethod DRUG.M
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX DILUTED



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\DRUGLC.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\DRUGLC.M
Wed Jun 21 10:21:18 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 50 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 7 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
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 2
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 11.36 psi
Gas Saver	On 20 After 2 min mL/min
Split Ratio	1.88608661765899 :1
Split Flow	2.2499 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	110.37 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.1929 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS
DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	80 °C
Pressure	11.36 psi
Flow	1.1929 mL/min
Average Velocity	63.836 cm/sec
Holdup Time	0.3133 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	80 °C
Pressure	6.7158 psi
Flow	2.2075 mL/min
Average Velocity	44.155 cm/sec
Holdup Time	0.56619 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\DRUGLC.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 10:21:20 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\DRUGLC.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
Solvent delay (min)	2.25
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
2.25	40	550	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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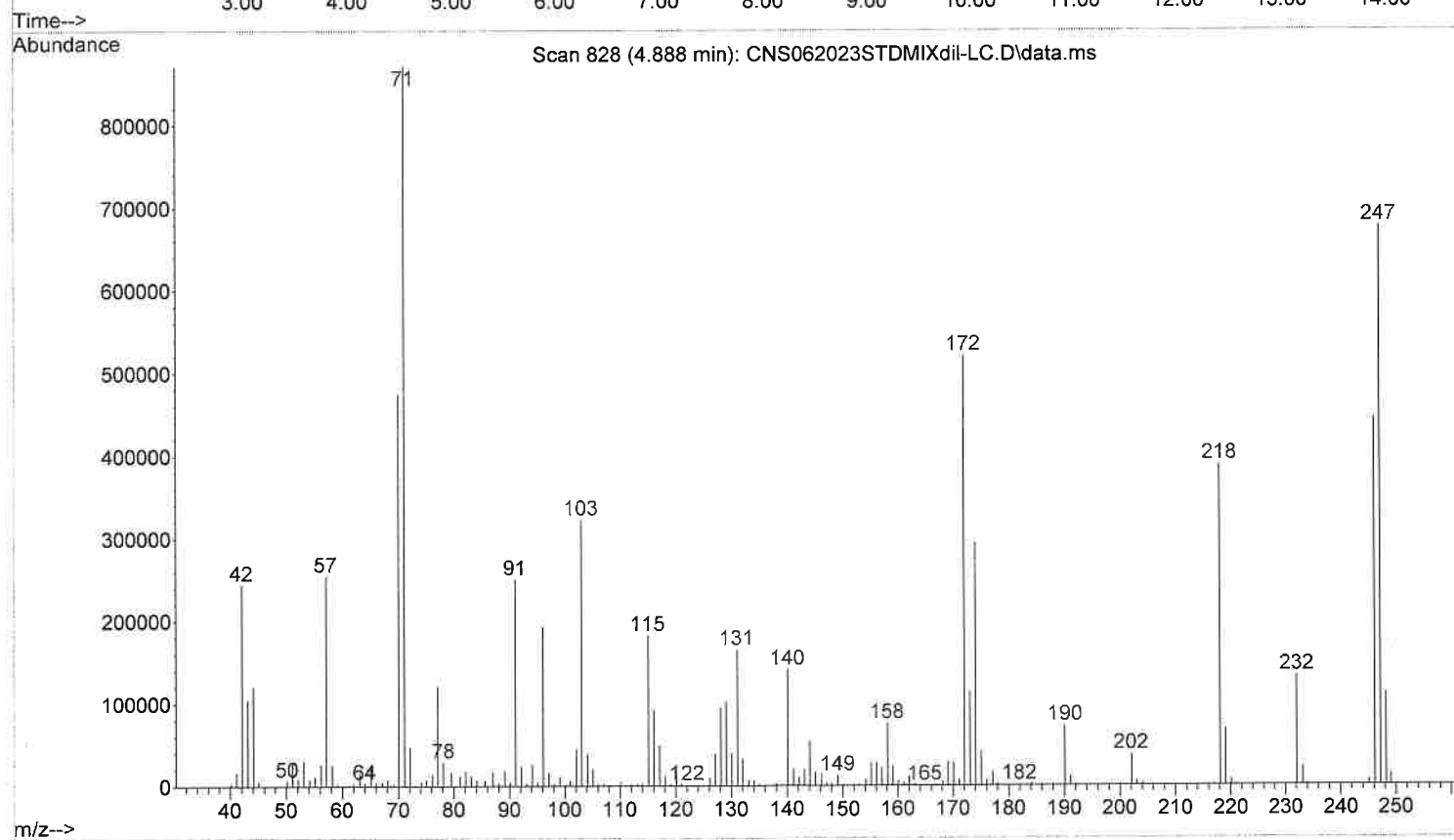
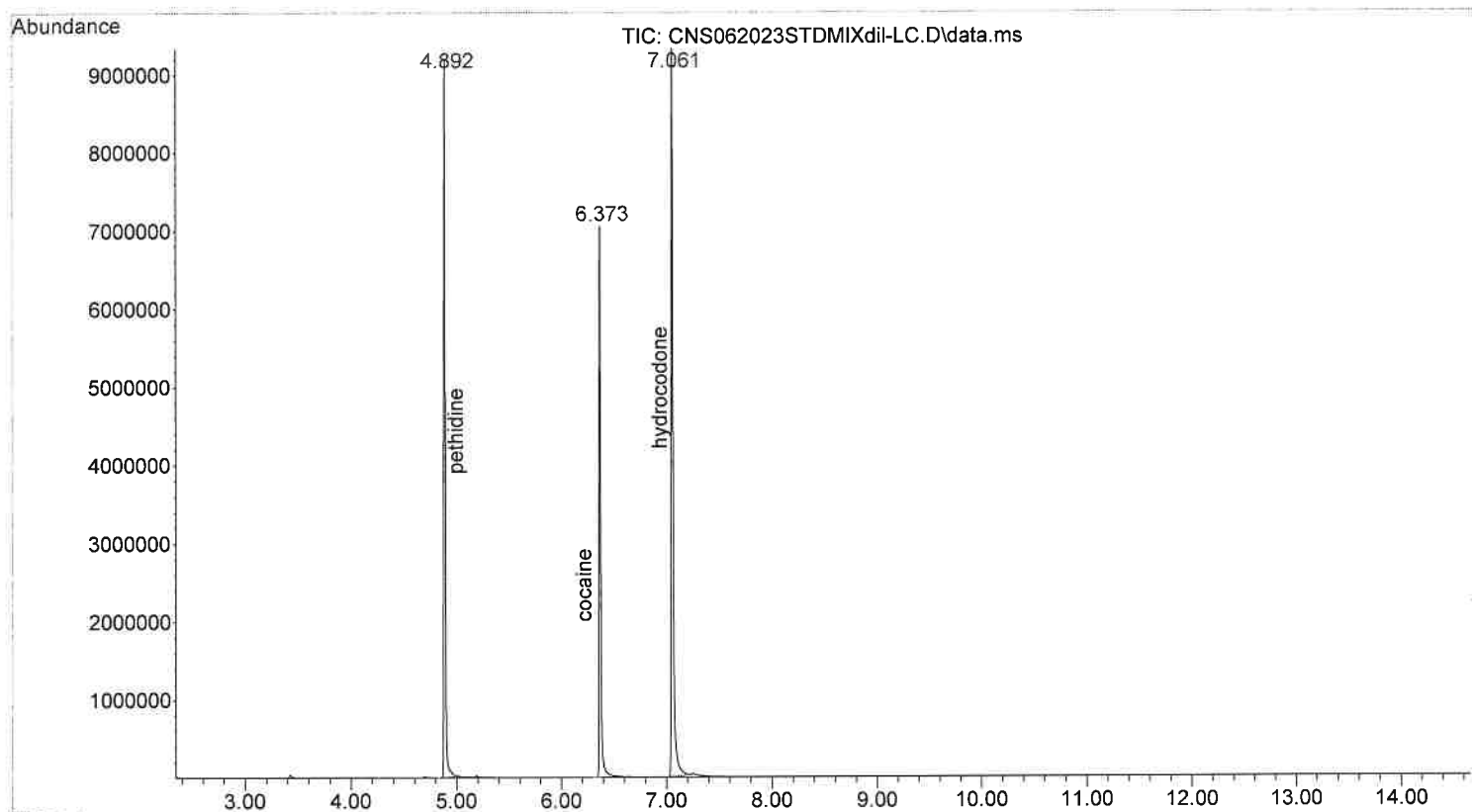
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

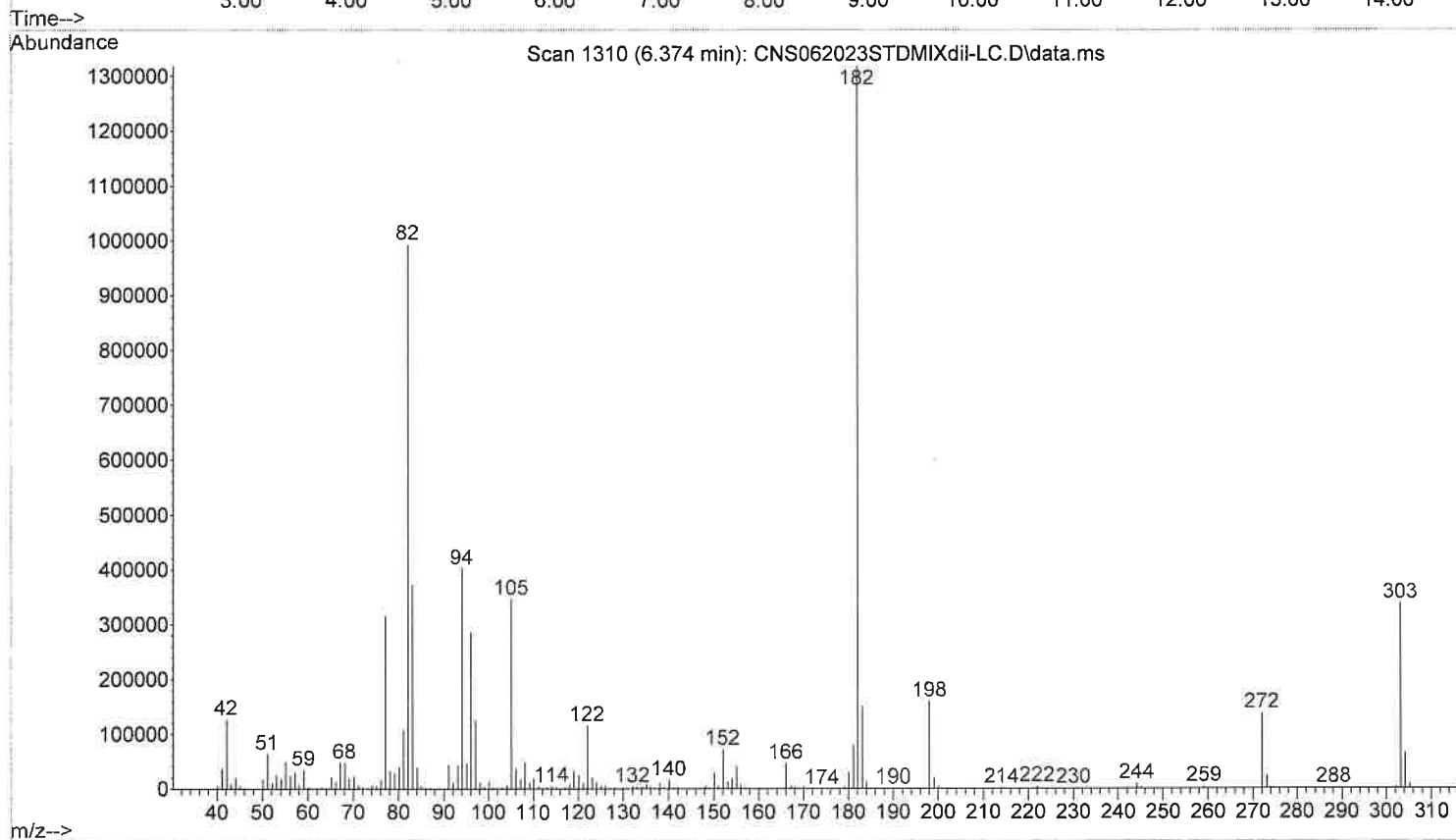
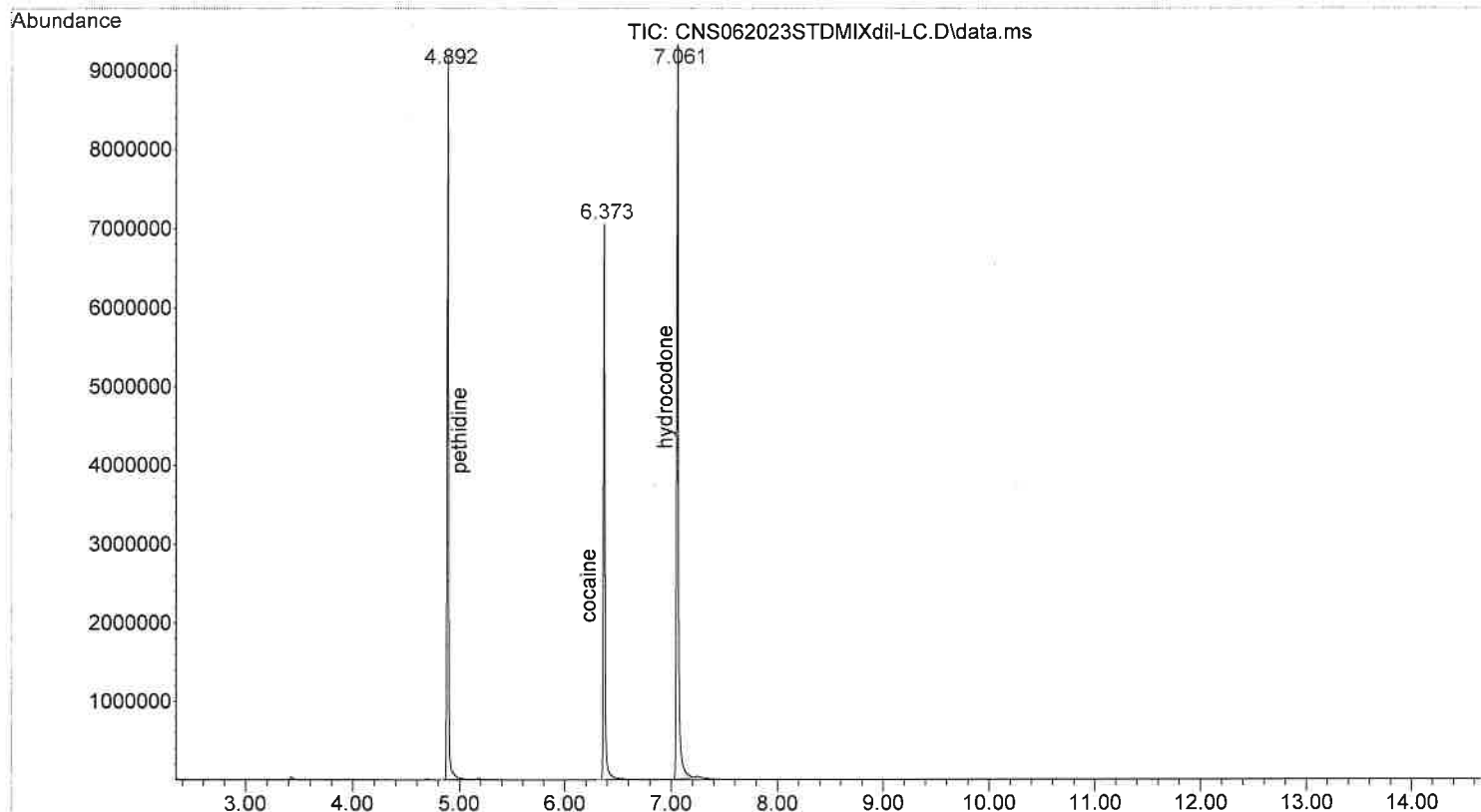
Self-Cleaning Ion Source Parameters

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

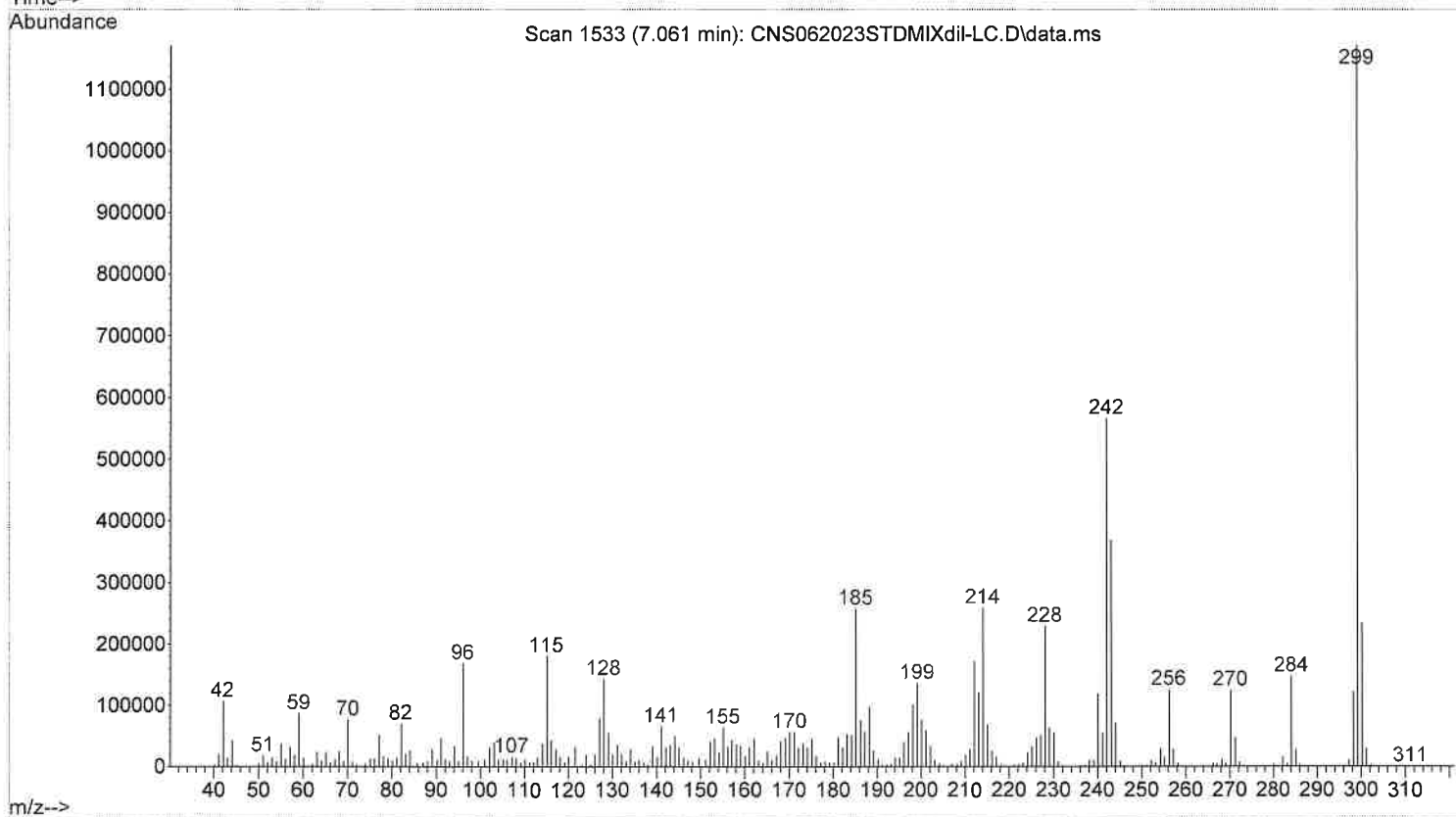
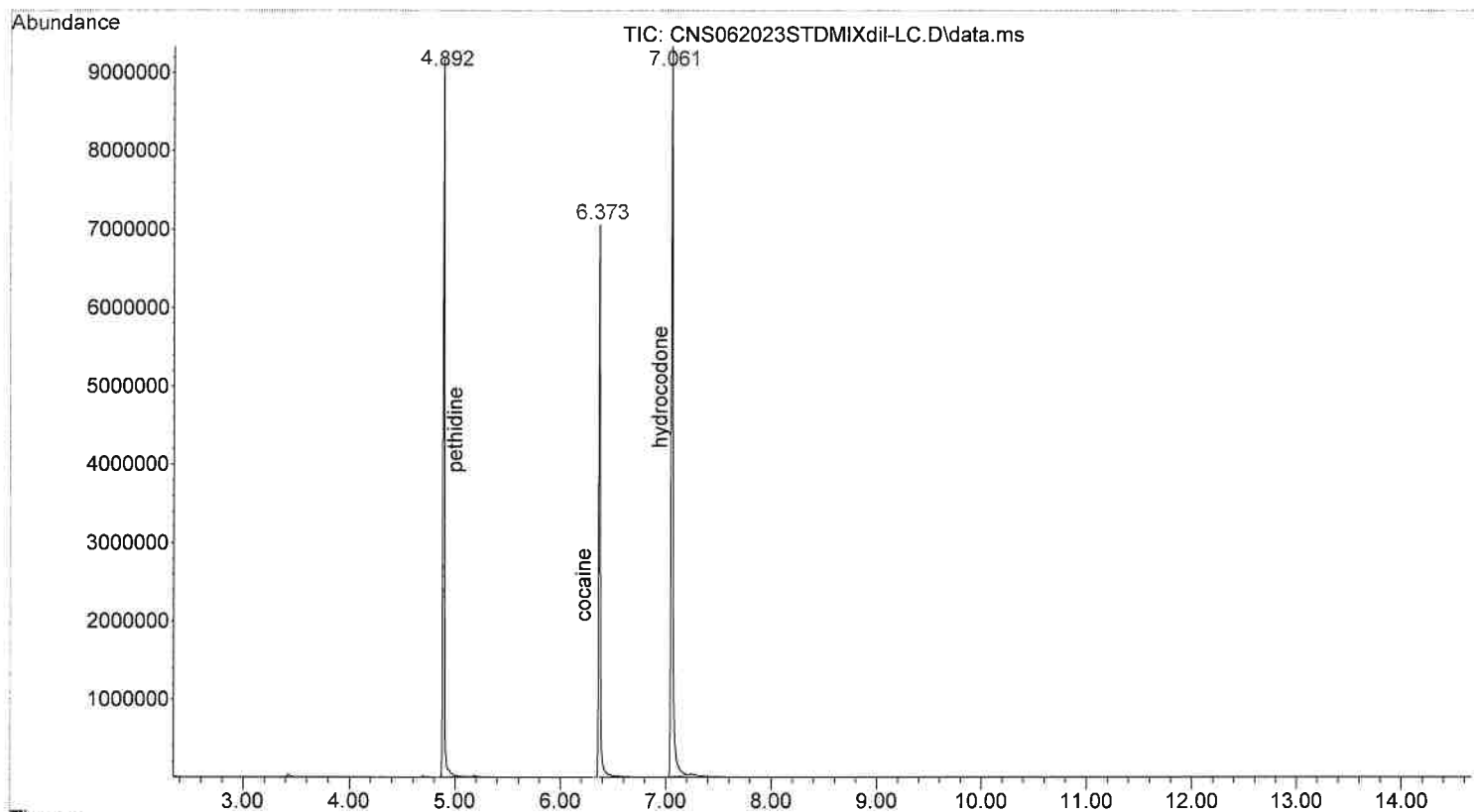
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STD MIXdil-LC
... .D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 14:07 using AcqMethod DRUGLC.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3 (CNS HOOD)



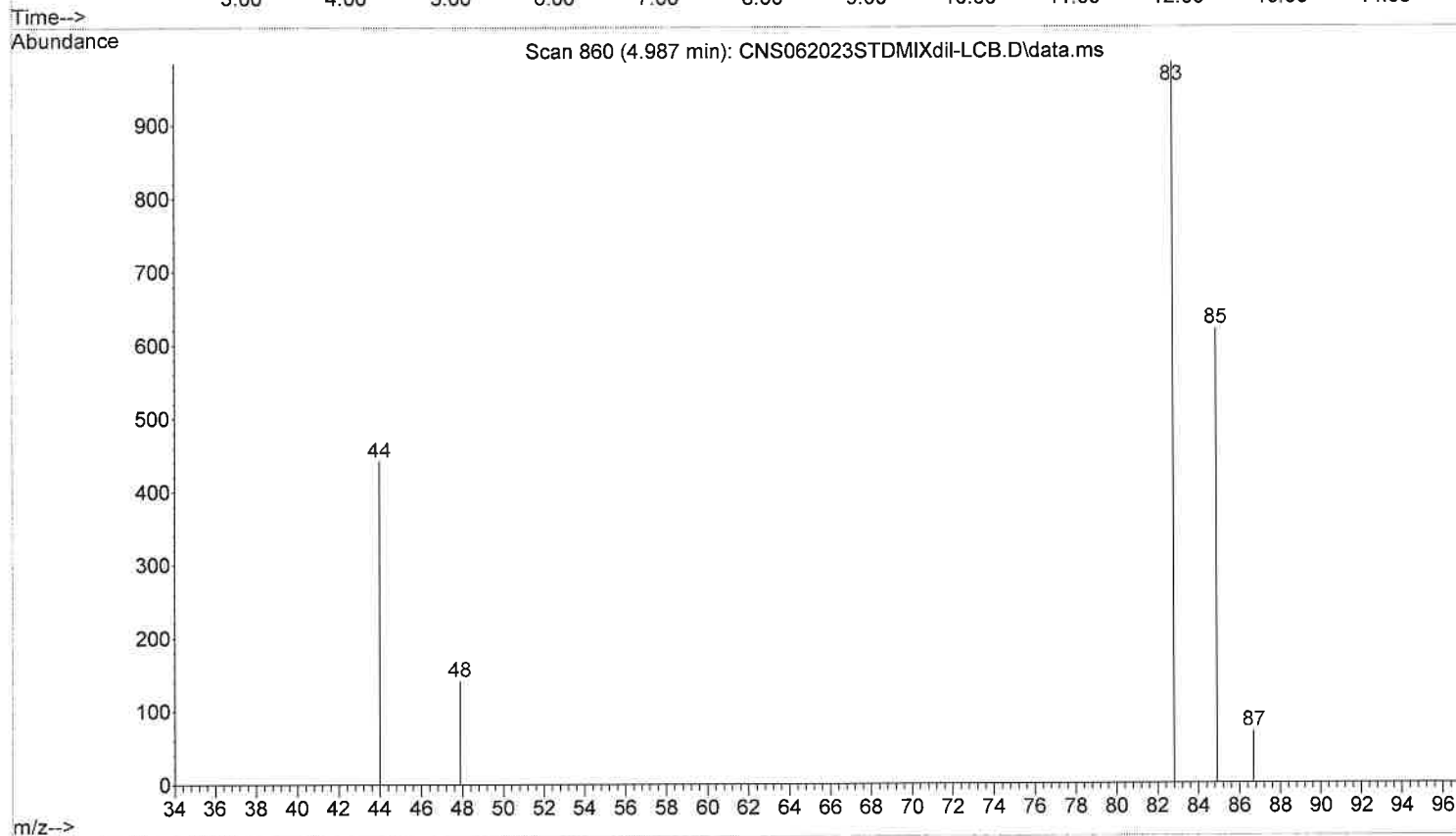
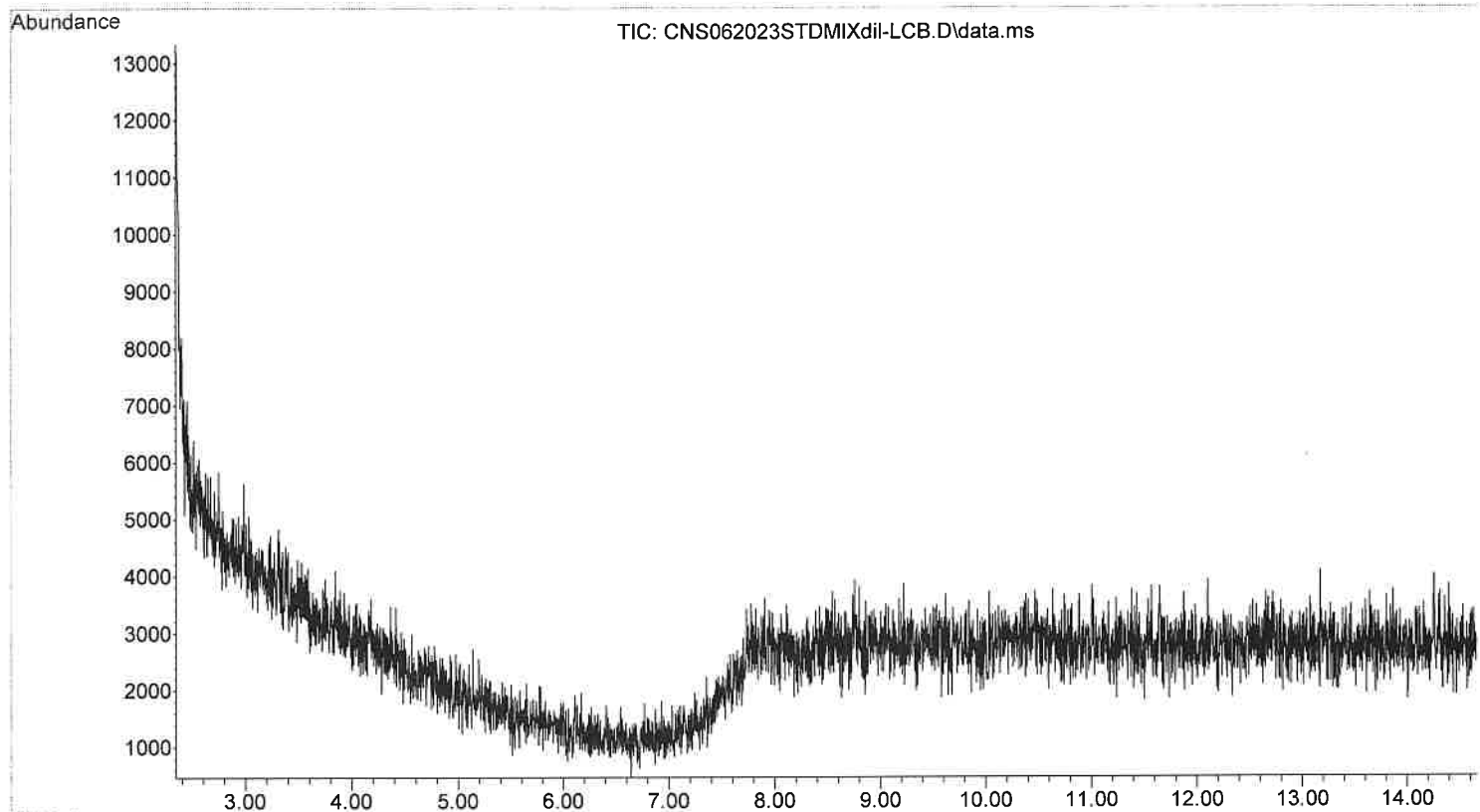
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STD MIXdil-LC
... .D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 14:07 using AcqMethod DRUGLC.M
Sample Name: STD MIX DILUTED
Misc Info : CHCl3 (CNS HOOD)



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STDMIXdil-LC
... .D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 14:07 using AcqMethod DRUGLC.M
Sample Name: STD MIX DILUTED
Misc Info : CHC13 (CNS HOOD)



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023STDMIXdil-LC
... B.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 13:48 using AcqMethod DRUGLC.M
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX DILUTED



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\GHB.M

Method Sections To Run:

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

() Data Analysis Pre-Run Cmd/Macro =

(X) Data Acquisition
(X) Data Analysis
() Instrument Control Post-Run Cmd/Macro =

() Data Analysis Post-Run Cmd/Macro =

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\GHB.M
Wed Jun 21 09:58:52 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 50 °C
Program
#1 Rate 30 °C/min
#1 Value 280 °C
#1 Hold Time 7 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
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 1
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	
	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 8.17 psi
Gas Saver	On 15 After 2 min mL/min
Split Ratio	30 :1
Split Flow	27.56 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	110.37 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.91866 mL/min
Post Run	0.969 mL/min
Column Information	
DB-1ms	Agilent 128-0112: DB-1MS
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	80 °C
Pressure	8.17 psi
Flow	0.91866 mL/min
Average Velocity	56.021 cm/sec
Holdup Time	0.35701 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	80 °C
Pressure	6.7158 psi
Flow	2.2075 mL/min
Average Velocity	44.155 cm/sec
Holdup Time	0.56619 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\GHB.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No

Printer: Yes

File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50

C:\Database\Cayman052218.L 50

C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No

Printer: Yes

File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 09:58:53 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\GHB.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	550	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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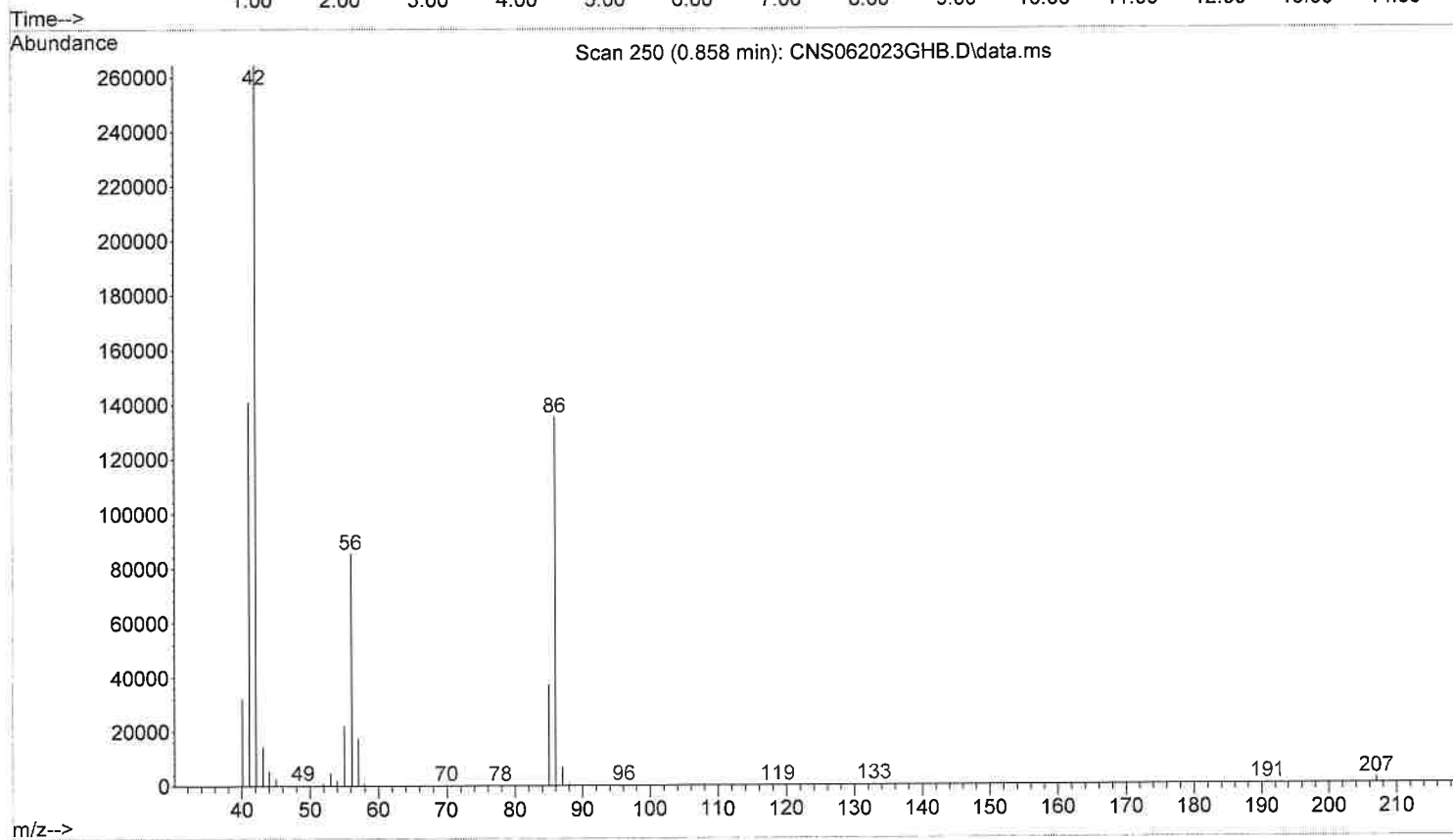
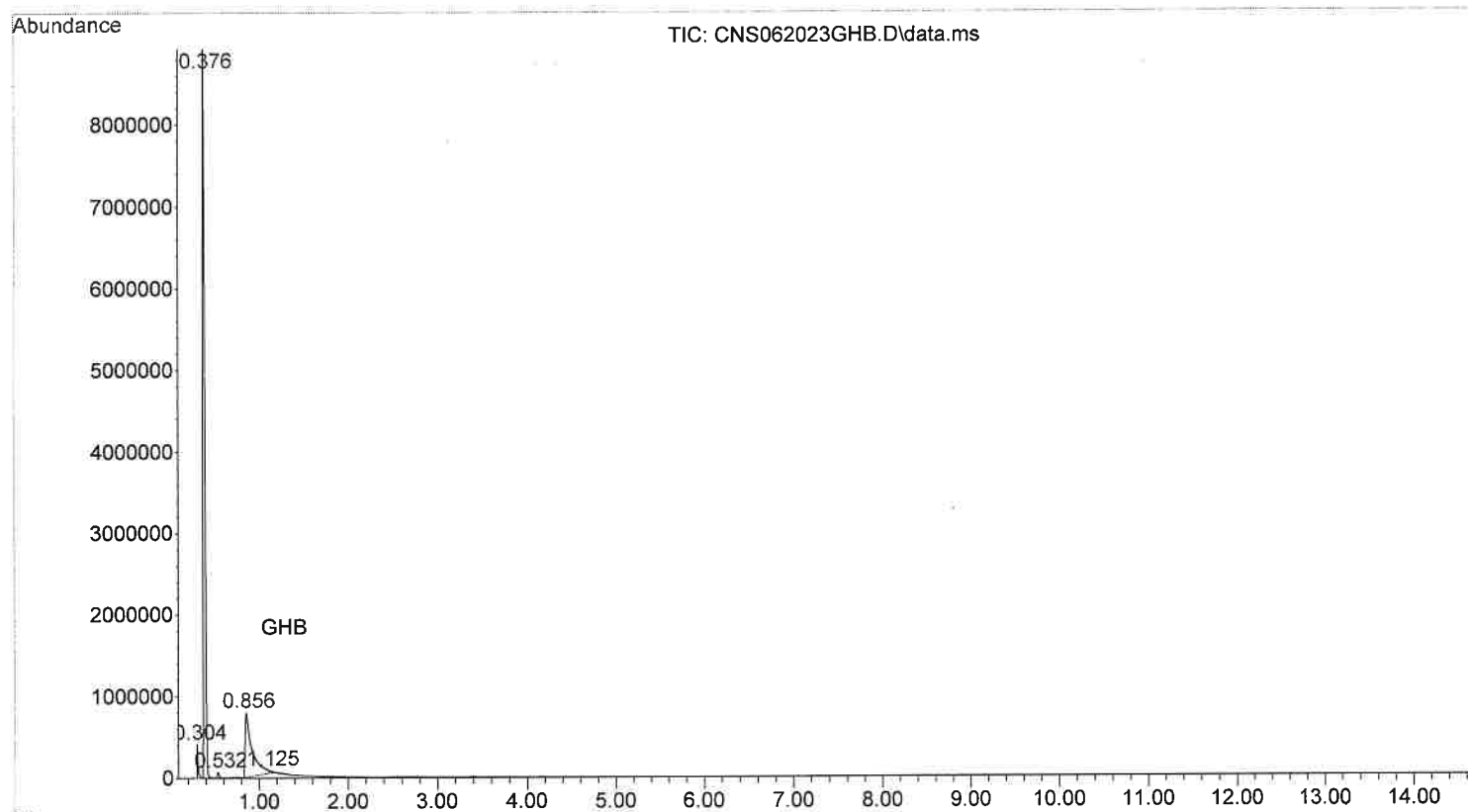
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

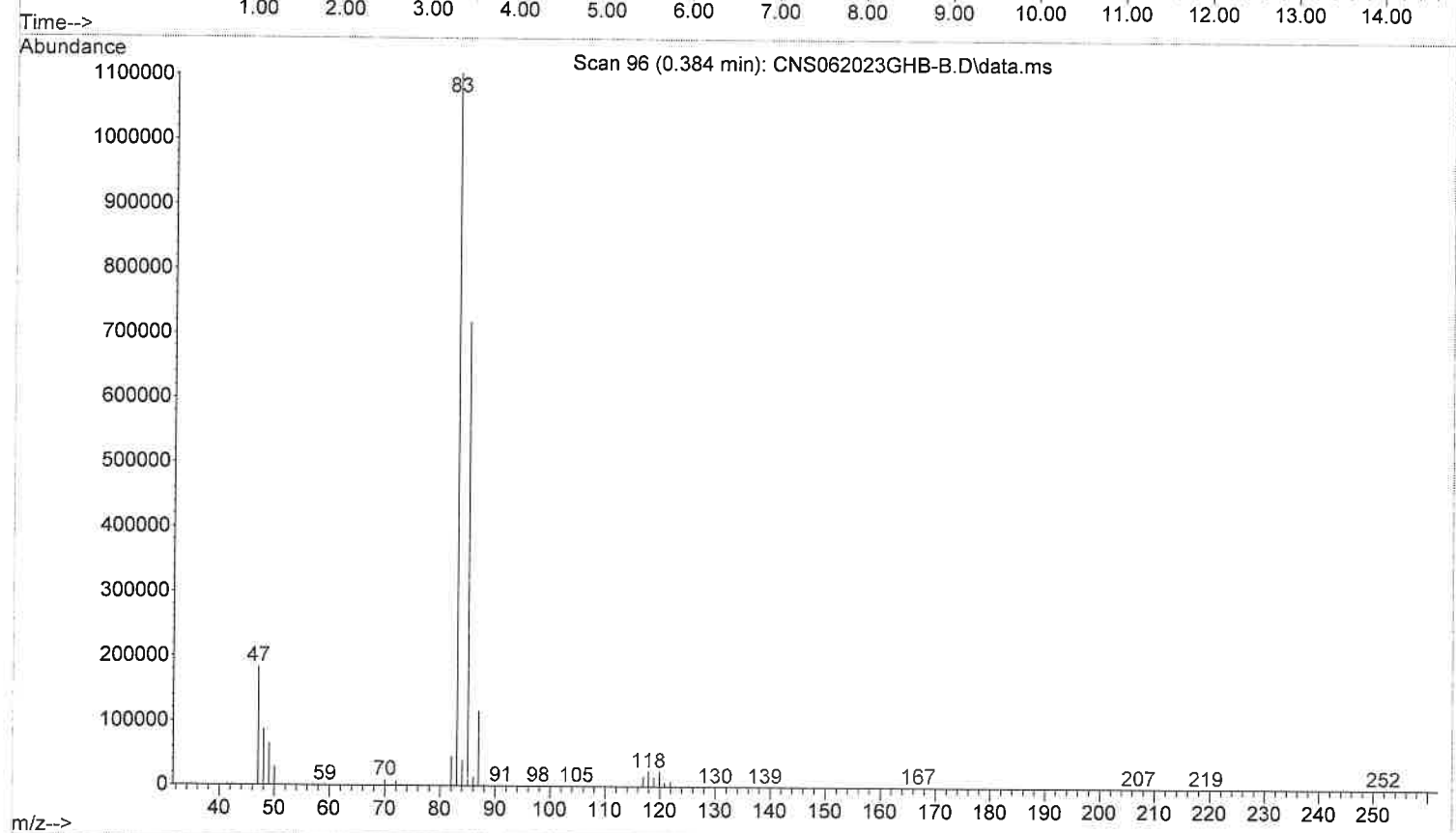
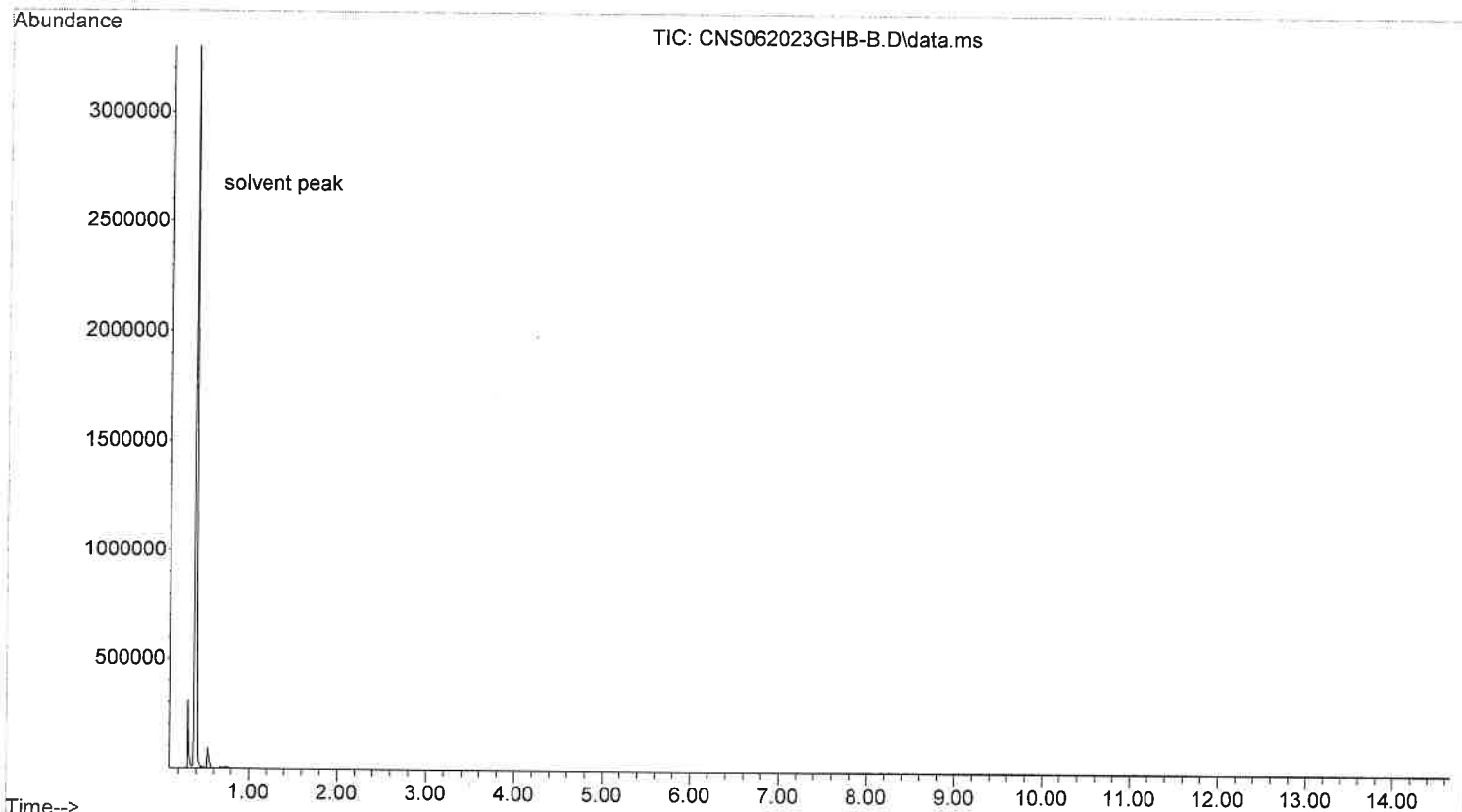
Self-Cleaning Ion Source Parameters

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

File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023GHB.D
Operator : KLAB
Acquired : 20 Jun 2023 22:18 using AcqMethod GHB.M
Instrument : Precious
Sample Name: GHB STD
Misc Info : MeOH
Vial Number: 14



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023GHB-B.D
Operator : KLAB
Acquired : 20 Jun 2023 21:59 using AcqMethod GHB.M
Instrument : Precious
Sample Name: METHANOL BLANK
Misc Info : GHB STD
Vial Number: 18



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\OPIATE.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\OPIATE.M
Thu Jun 22 08:51:54 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 50 °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
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 2
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 14.51 psi
Gas Saver	On 15 After 2 min mL/min
Split Ratio	40 :1
Split Flow	36.674 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	67.521 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.91684 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS
DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	200 °C
Pressure	14.51 psi
Flow	0.91684 mL/min
Average Velocity	58.647 cm/sec
Holdup Time	0.34102 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	200 °C
Pressure	6.7158 psi
Flow	1.3504 mL/min
Average Velocity	36.19 cm/sec
Holdup Time	0.6908 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals	
Signal #1: Front Signal	
Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal	
Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :
Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\OPIATE.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No

Printer: Yes

File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50

C:\Database\Cayman052218.L 50

C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No

Printer: Yes

File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Thu Jun 22 08:51:56 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\OPIATE.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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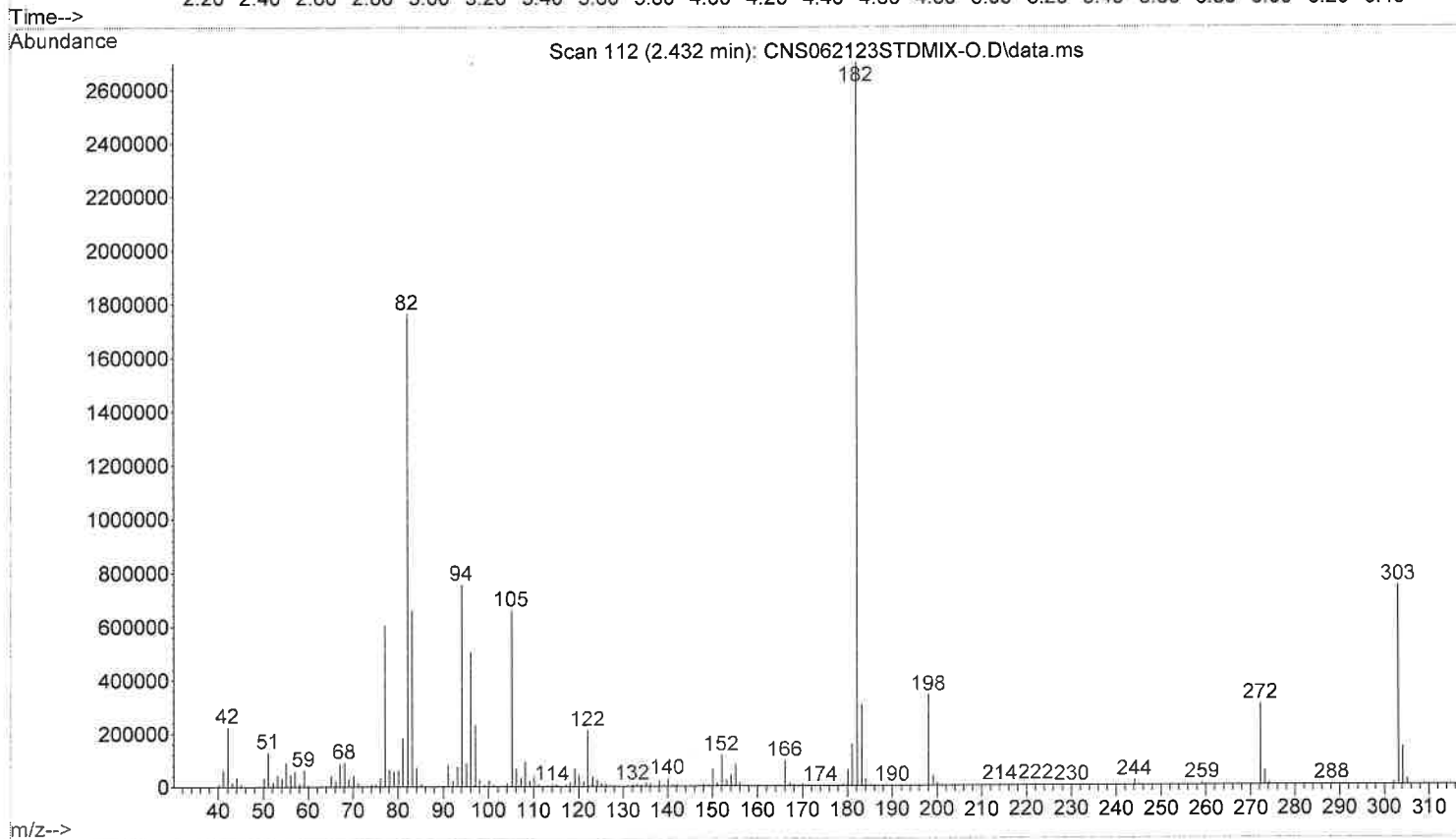
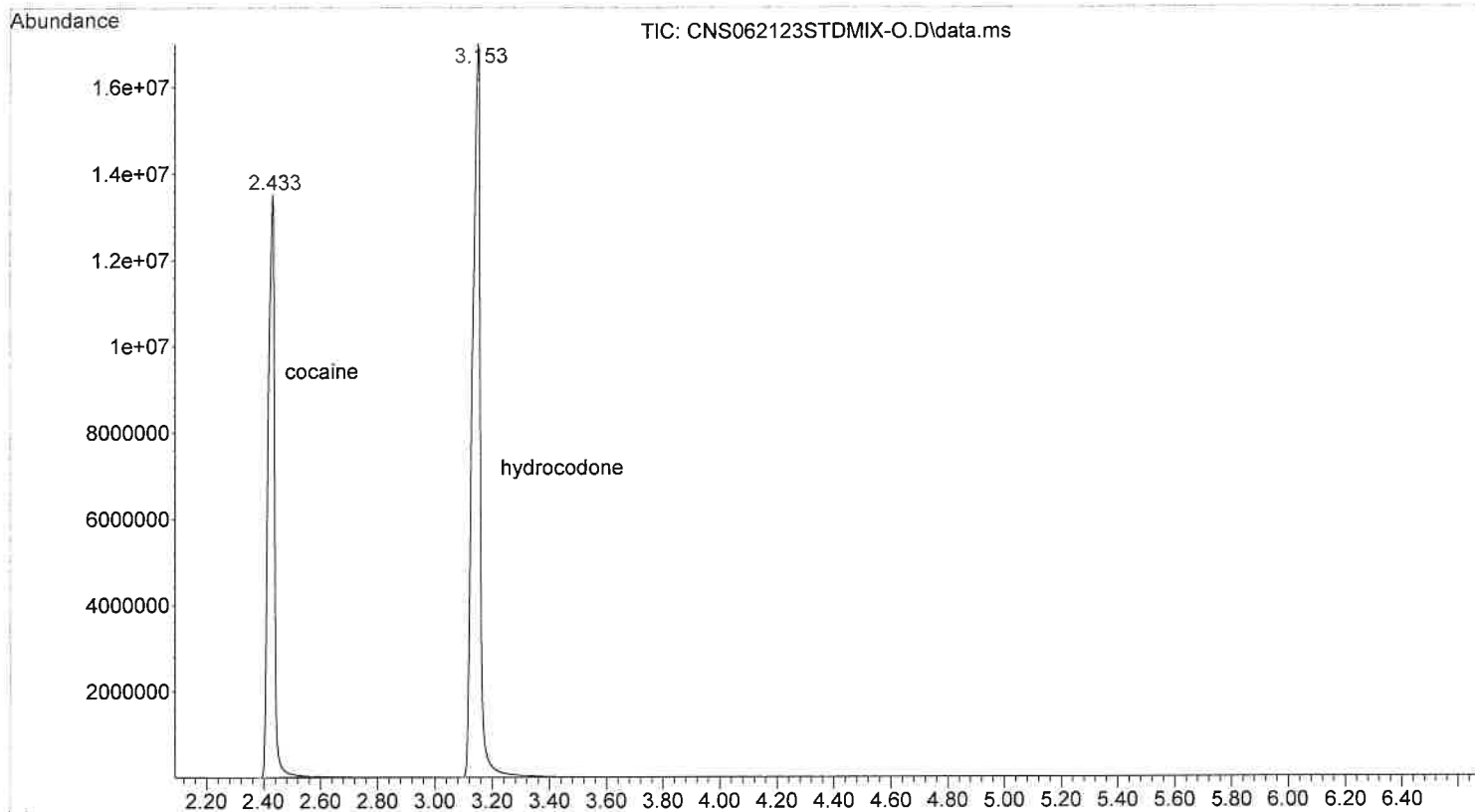
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

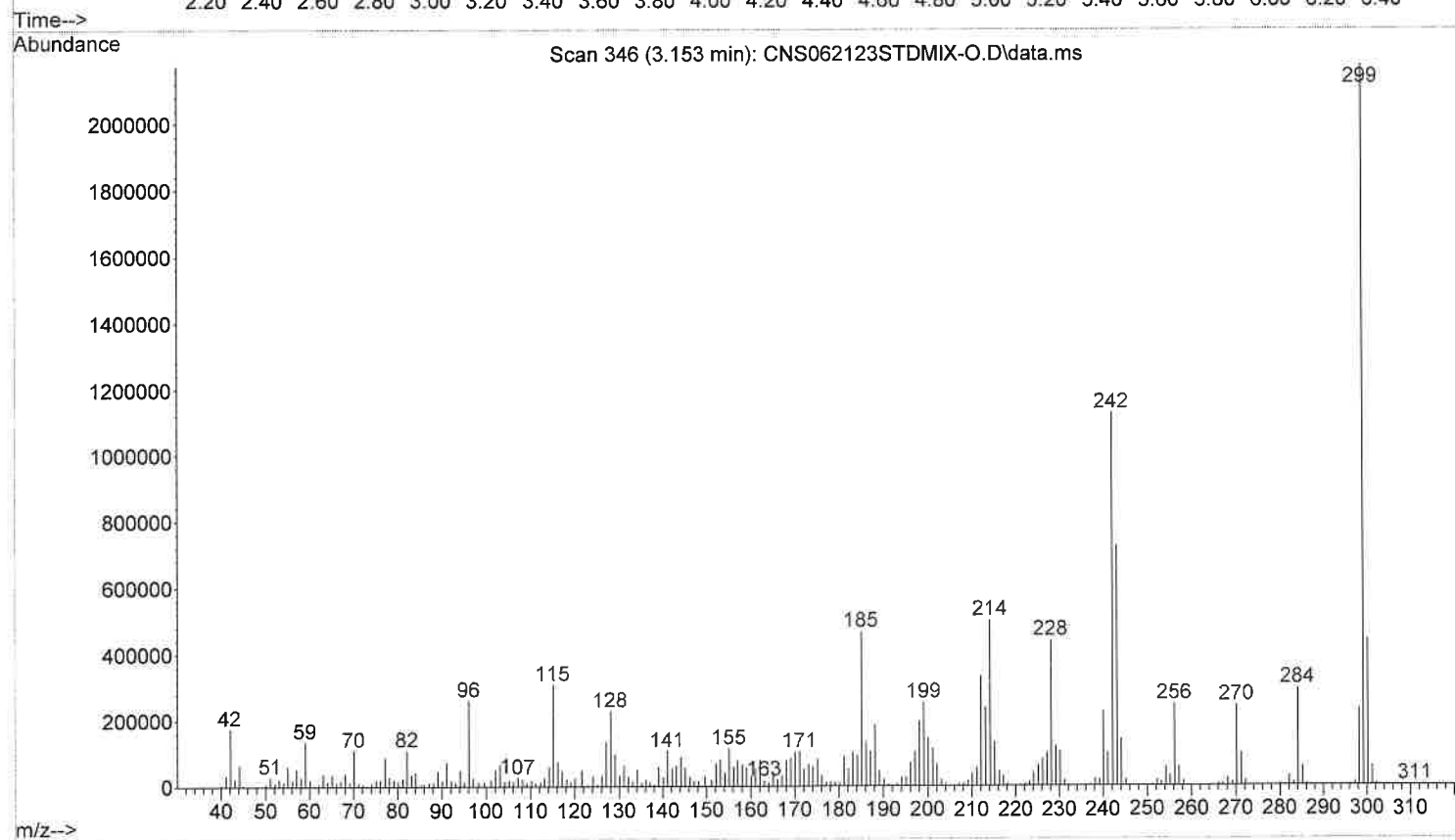
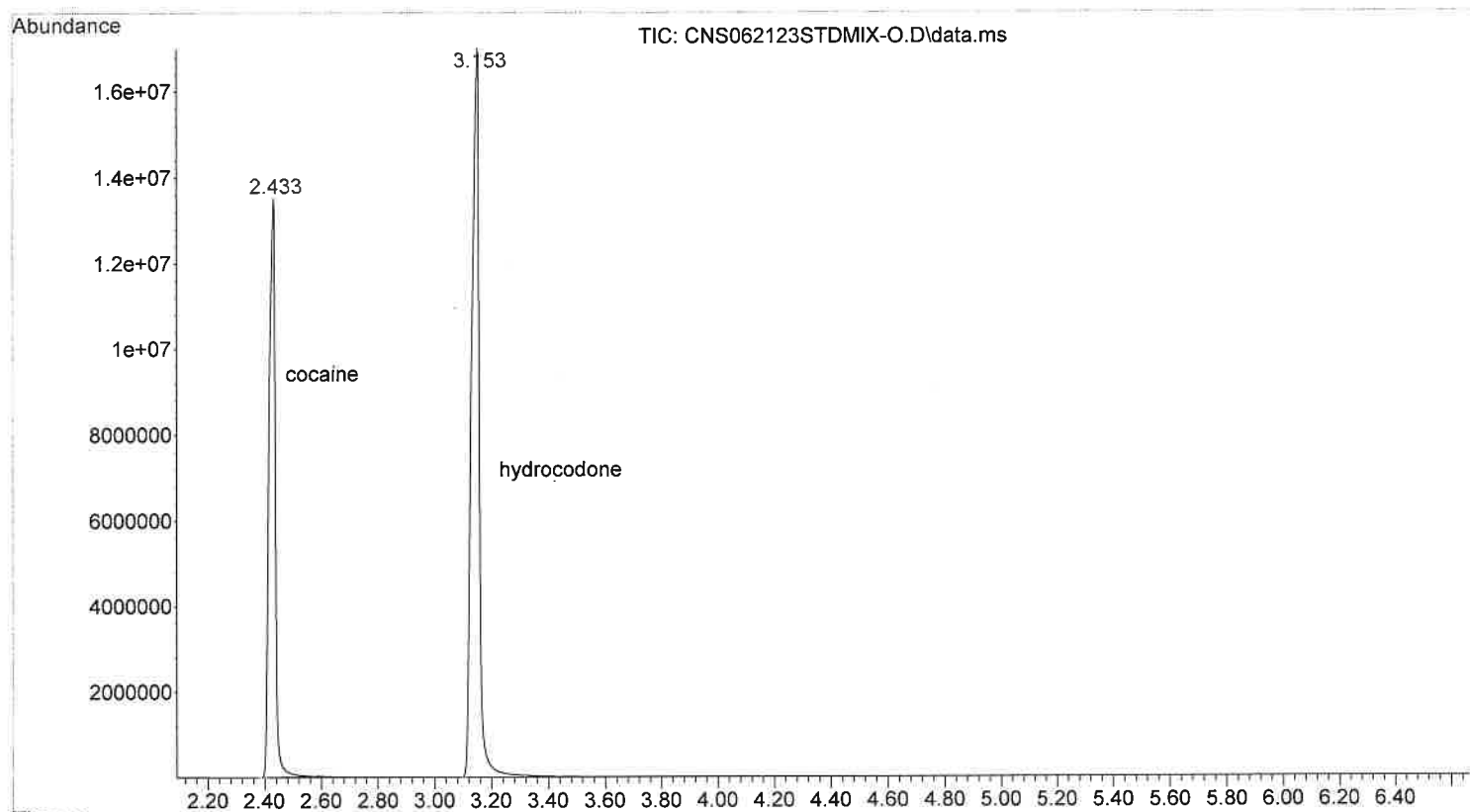
Self-Cleaning Ion Source Parameters

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

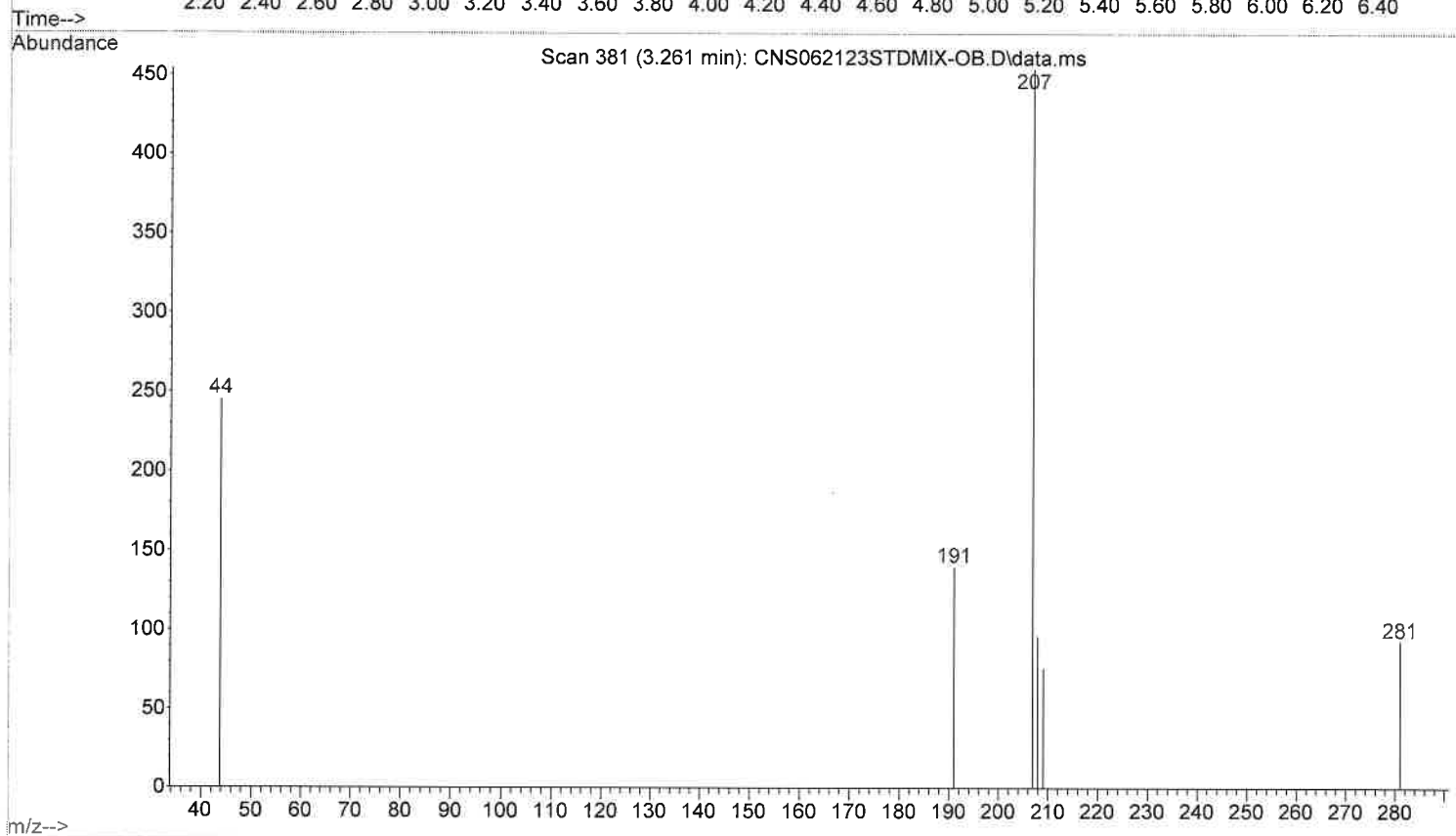
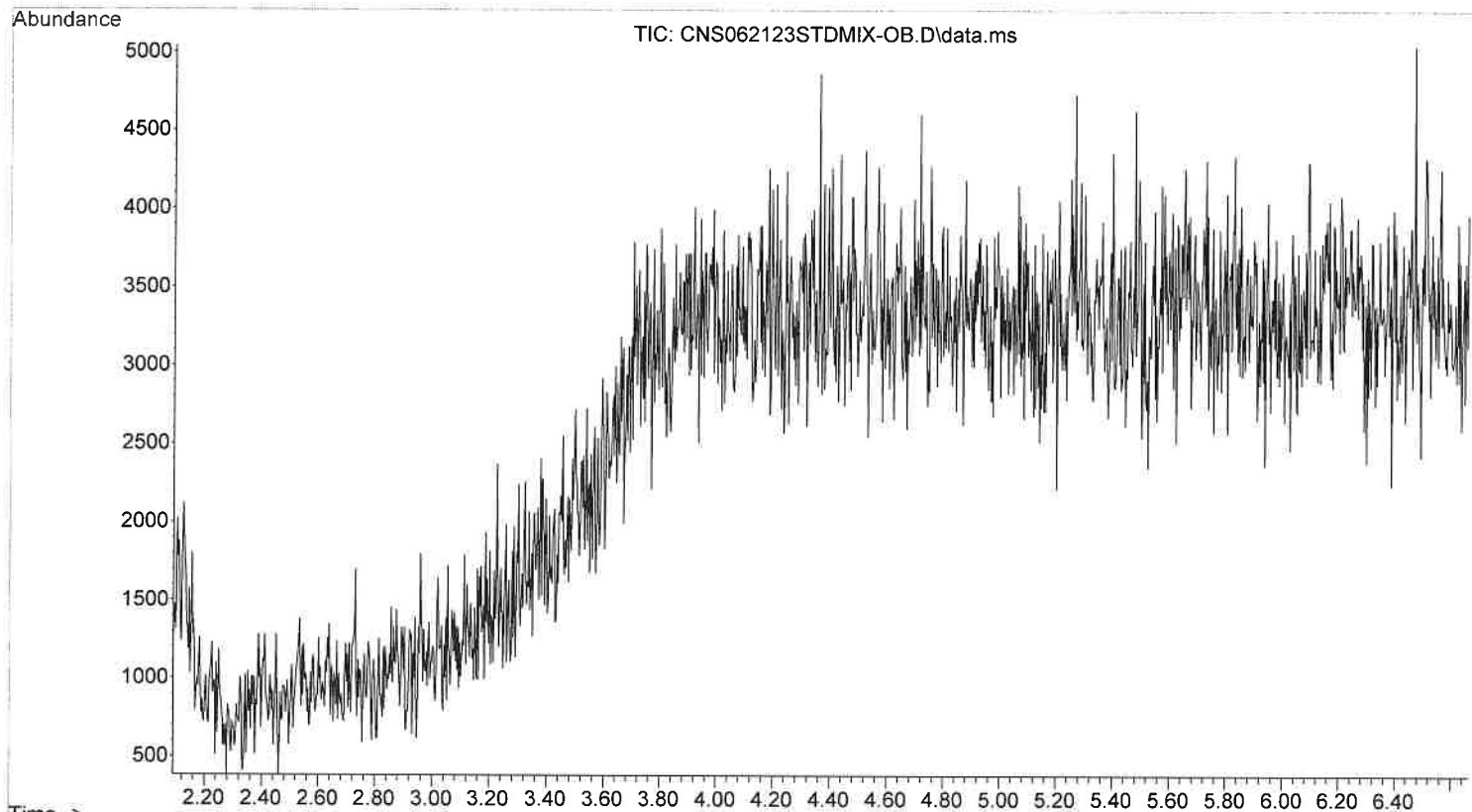
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STD MIX-0.D
Operator : KLAB
Acquired : 21 Jun 2023 17:31 using AcqMethod OPIATE.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STD MIX-O.D
Operator : KLAB
Acquired : 21 Jun 2023 17:31 using AcqMethod OPIATE.M
Instrument : Precious
Sample Name: STD MIX
Misc Info : CHCl3
Vial Number: 7



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062123STD MIX-OB.D
Operator : KLAB
Acquired : 21 Jun 2023 17:22 using AcqMethod OPIATE.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : STD MIX
Vial Number: 2



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\STEROID.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\STEROID.M

Wed Jun 21 10:06:05 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 25.033 min
Post Run Time 0 min

Oven
Temperature
Setpoint On
(Initial) 70 °C
Hold Time 0.5 min
Post Run 50 °C
Program
#1 Rate 15 °C/min
#1 Value 150 °C
#1 Hold Time 1 min
#2 Rate 25 °C/min
#2 Value 280 °C
#2 Hold Time 13 min

Equilibration Time 0.5 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS
Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 2
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
Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 8.592 psi
Gas Saver	On 20 After 2 min mL/min
Split Ratio	45 :1
Split Flow	45 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	115.83 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS

DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm
In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	70 °C
Pressure	8.592 psi
Flow	1 mL/min
Average Velocity	58.18 cm/sec
Holdup Time	0.34376 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	70 °C
Pressure	6.7158 psi
Flow	2.3166 mL/min
Average Velocity	45.026 cm/sec
Holdup Time	0.55524 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Aux EPC 5 He
Pressure
Setpoint
(Initial)
Post Run

Off
0 psi
0 psi

Signals

Signal #1: Front Signal

Description

Front Signal

Details

Front Signal (ECD)

Save

Off

Data Rate

50 Hz

Dual Injection Assignment

Front Sample

Zero Signal

Zero @ 0 min

Signal #2: Back Signal

Description

Back Signal

Details

Back Signal (FID)

Save

Off

Data Rate

20 Hz

Dual Injection Assignment

Back Sample

Zero Signal

Zero @ 0 min

Column 1 Inventory Number :

Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\STEROID.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 10:06:07 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\STEROID.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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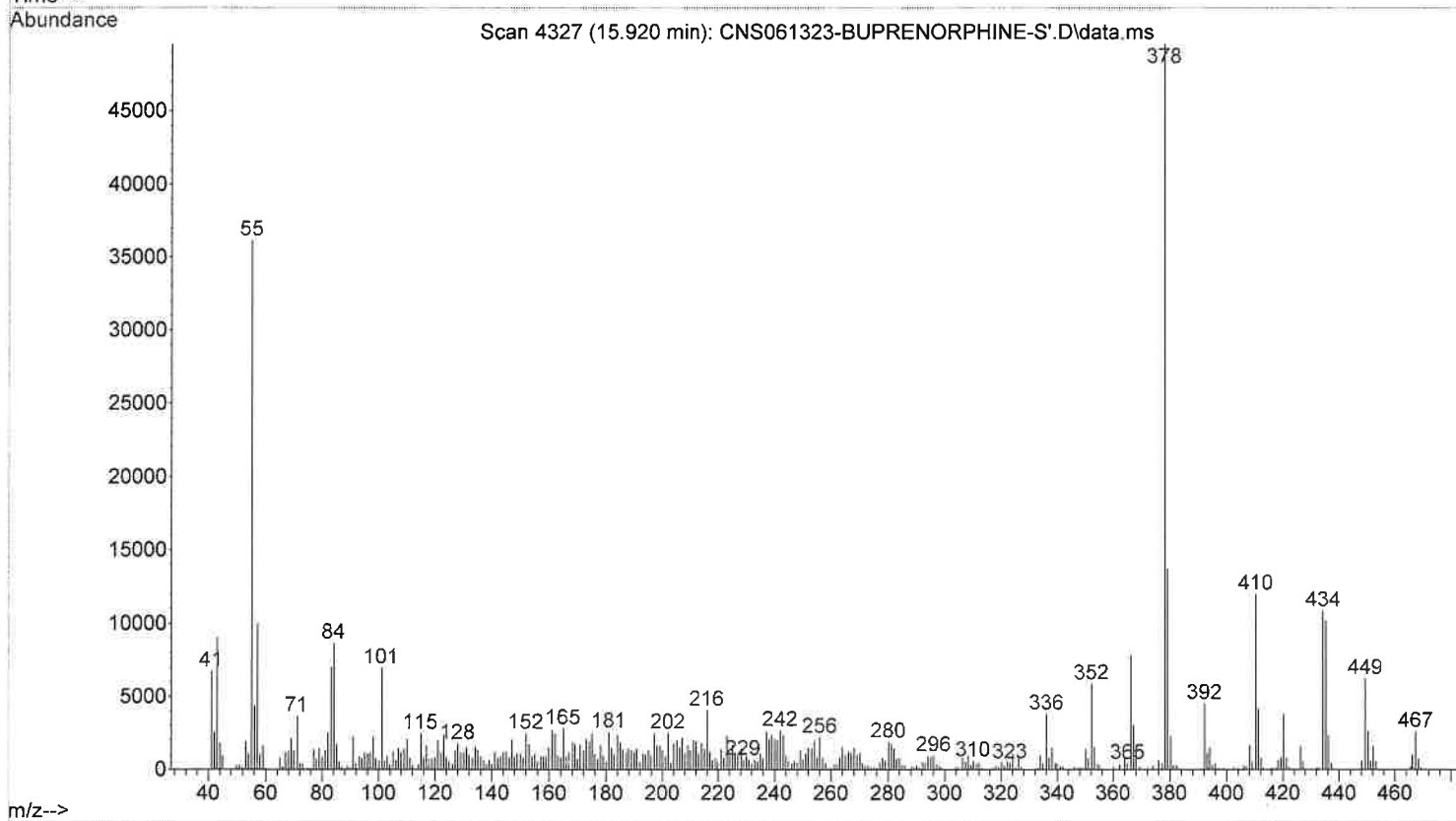
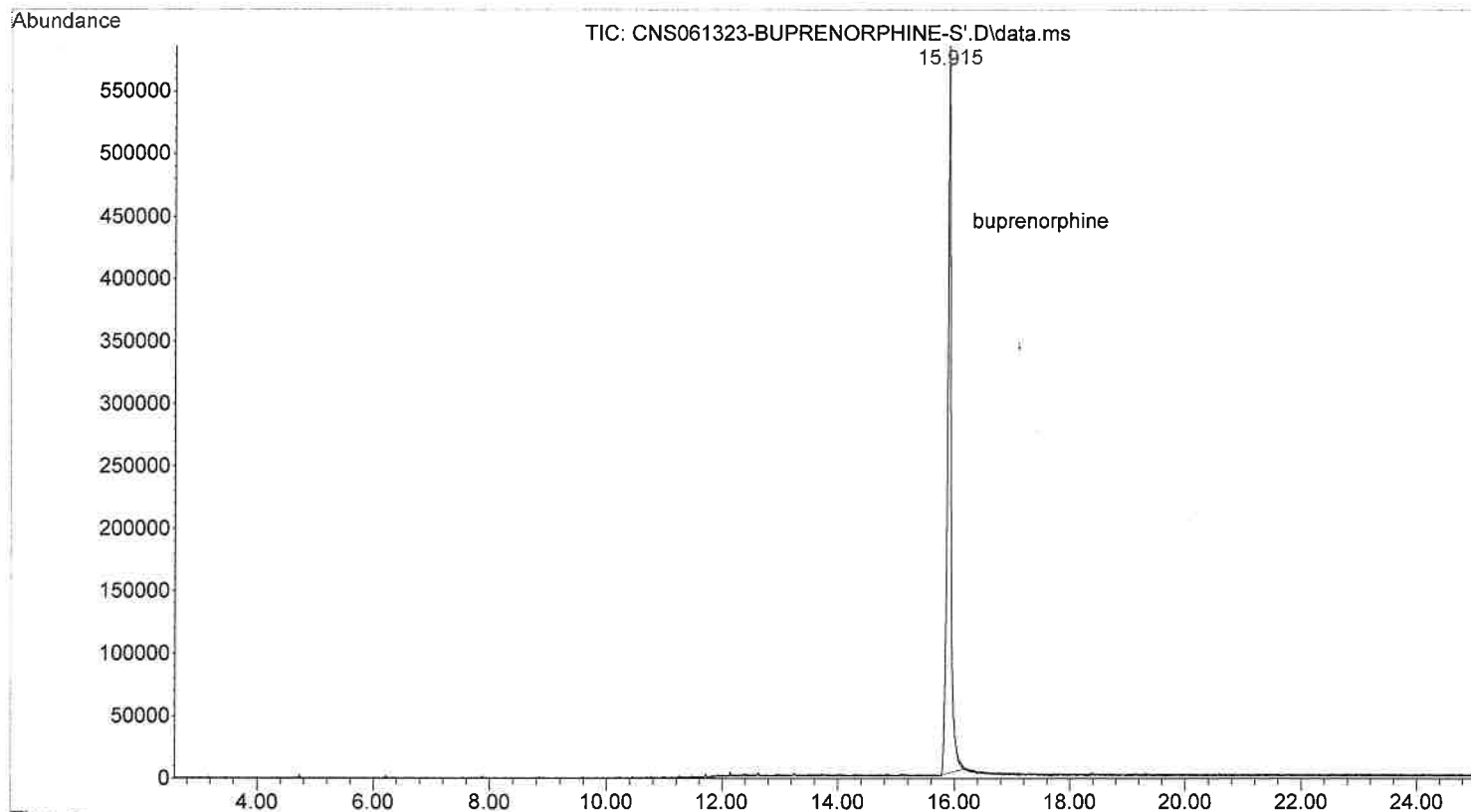
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

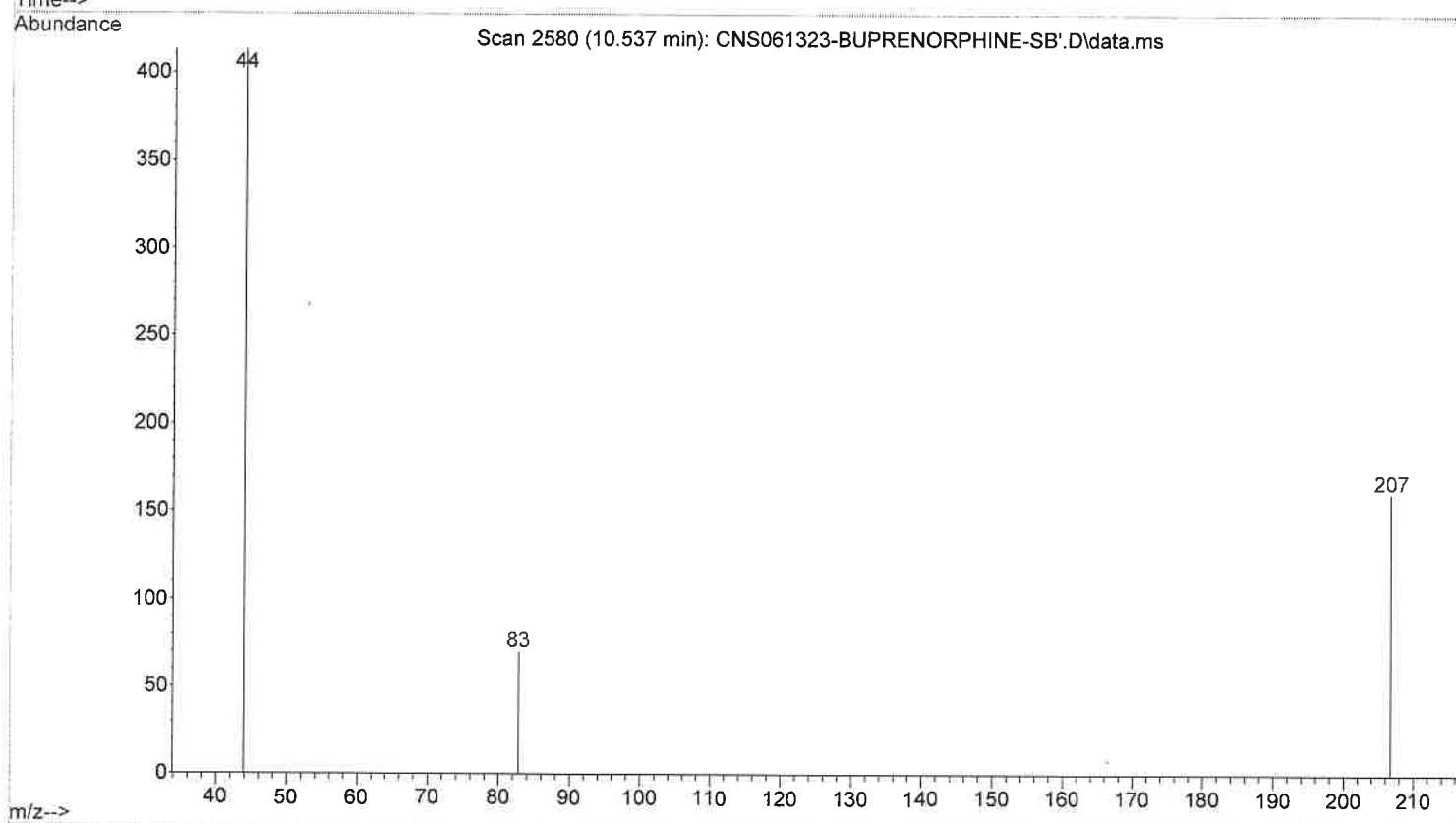
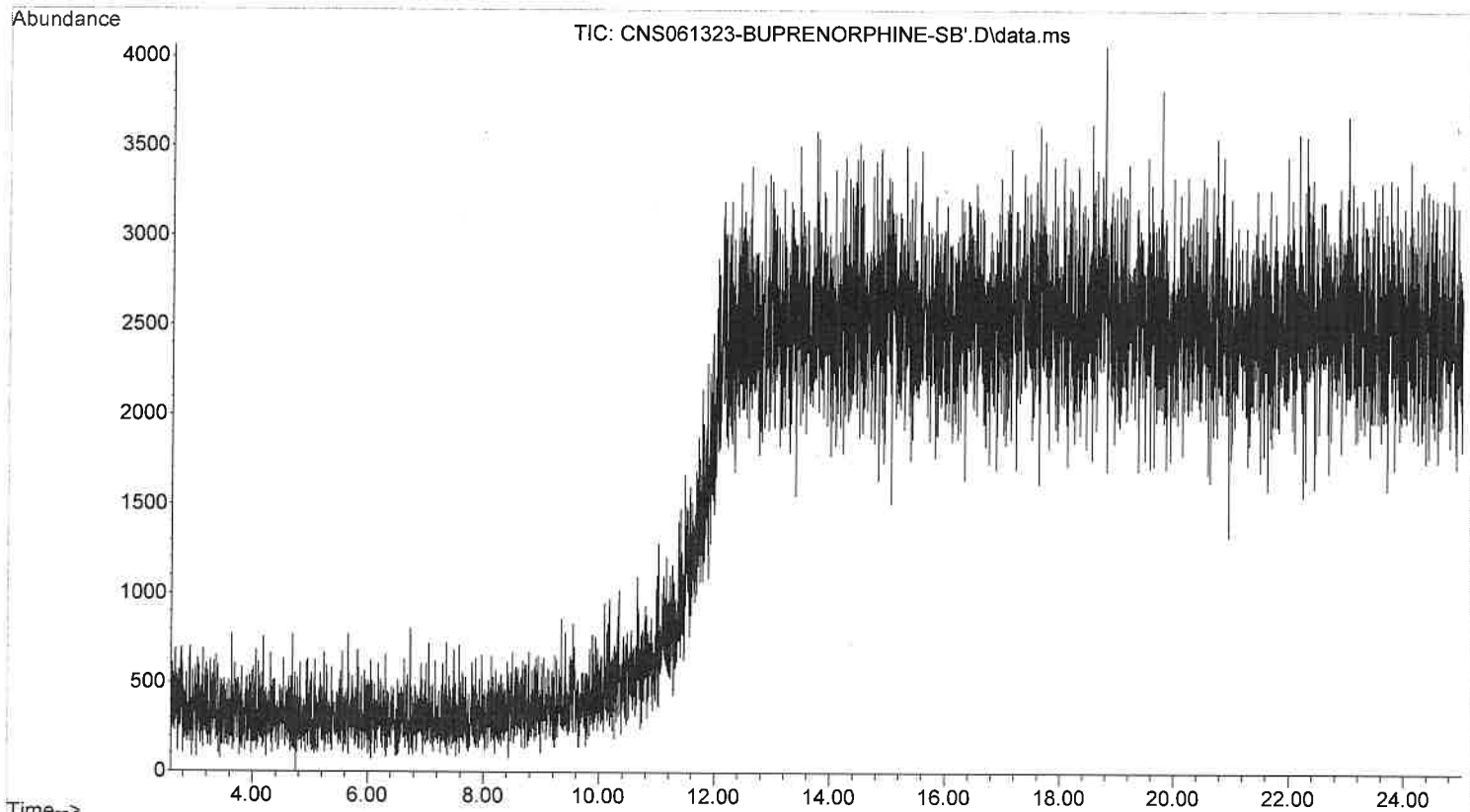
Self-Cleaning Ion Source Parameters

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

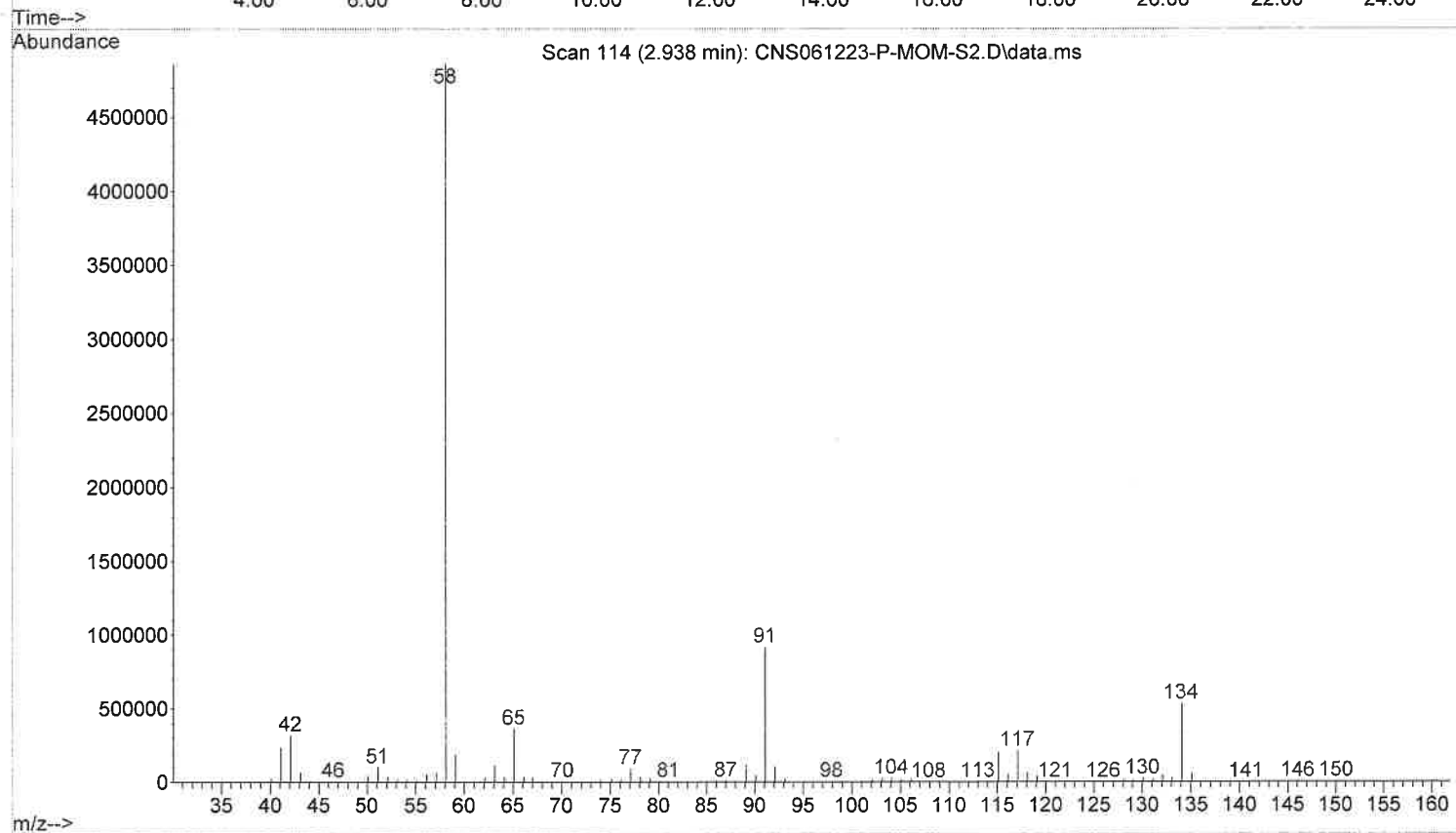
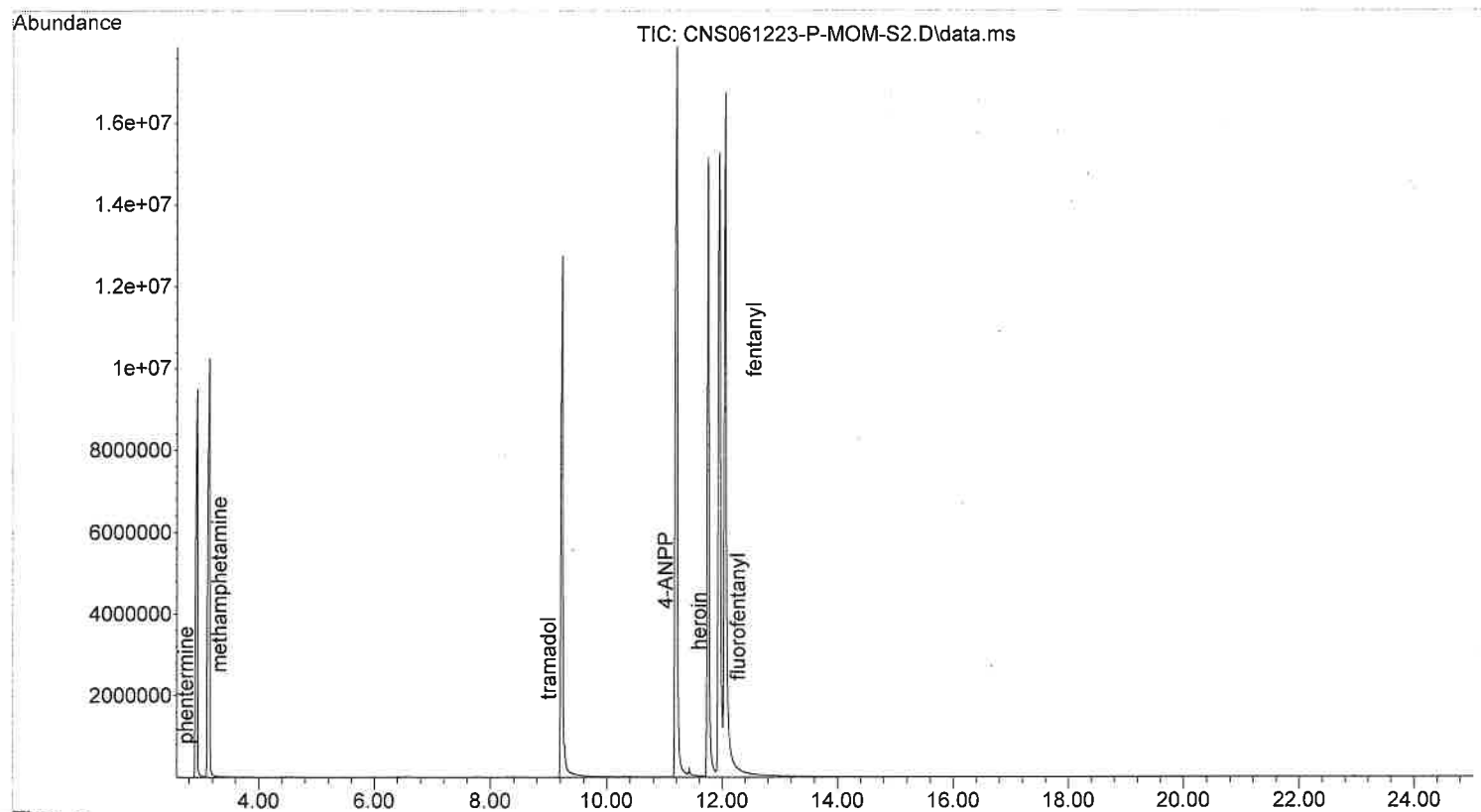
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061323-BUPRENORPHI
... NE-S'.D
Operator : KLAB
Instrument : Precious
Acquired : 13 Jun 2023 15:12 using AcqMethod STERIOD.M
Sample Name: BUPRENORPHINE STD in MeOH
Misc Info :



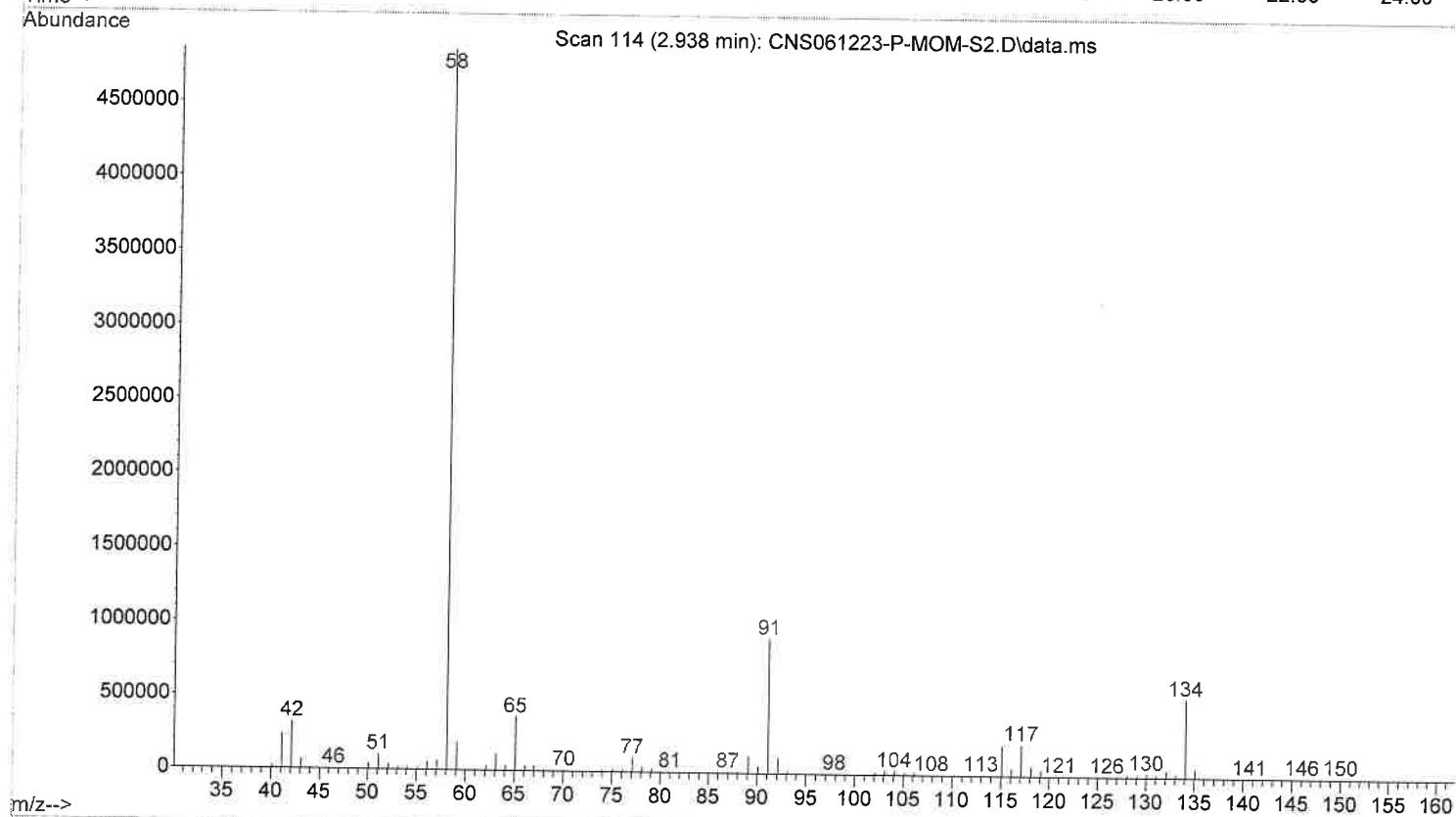
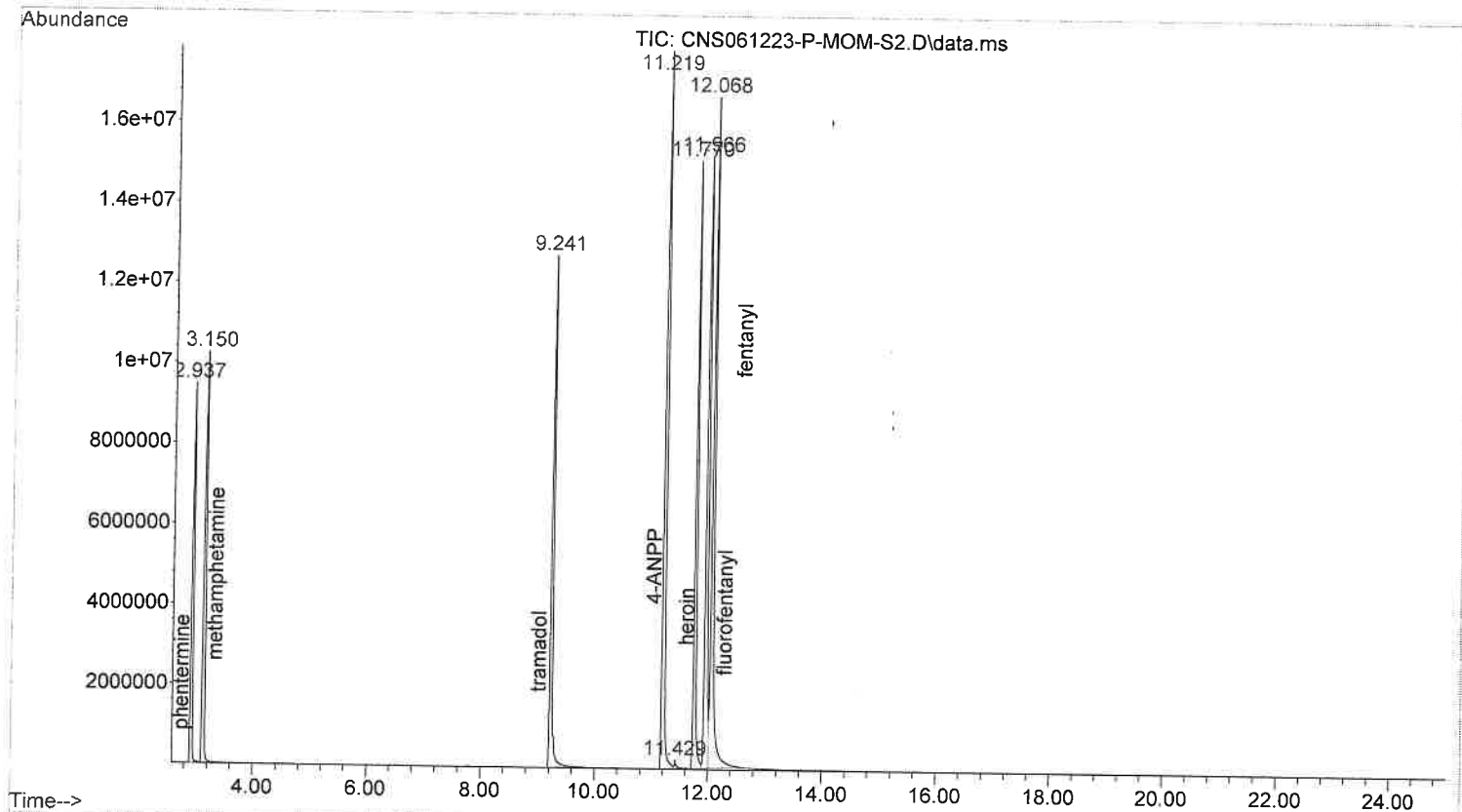
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061323-BUPRENORPHI
... NE-SB'.D
Operator : KLAB
Instrument : Precious
Acquired : 13 Jun 2023 14:41 using AcqMethod STERIOD.M
Sample Name: METHANOL BLANK FOR BUPRENORPHINE
Misc Info :



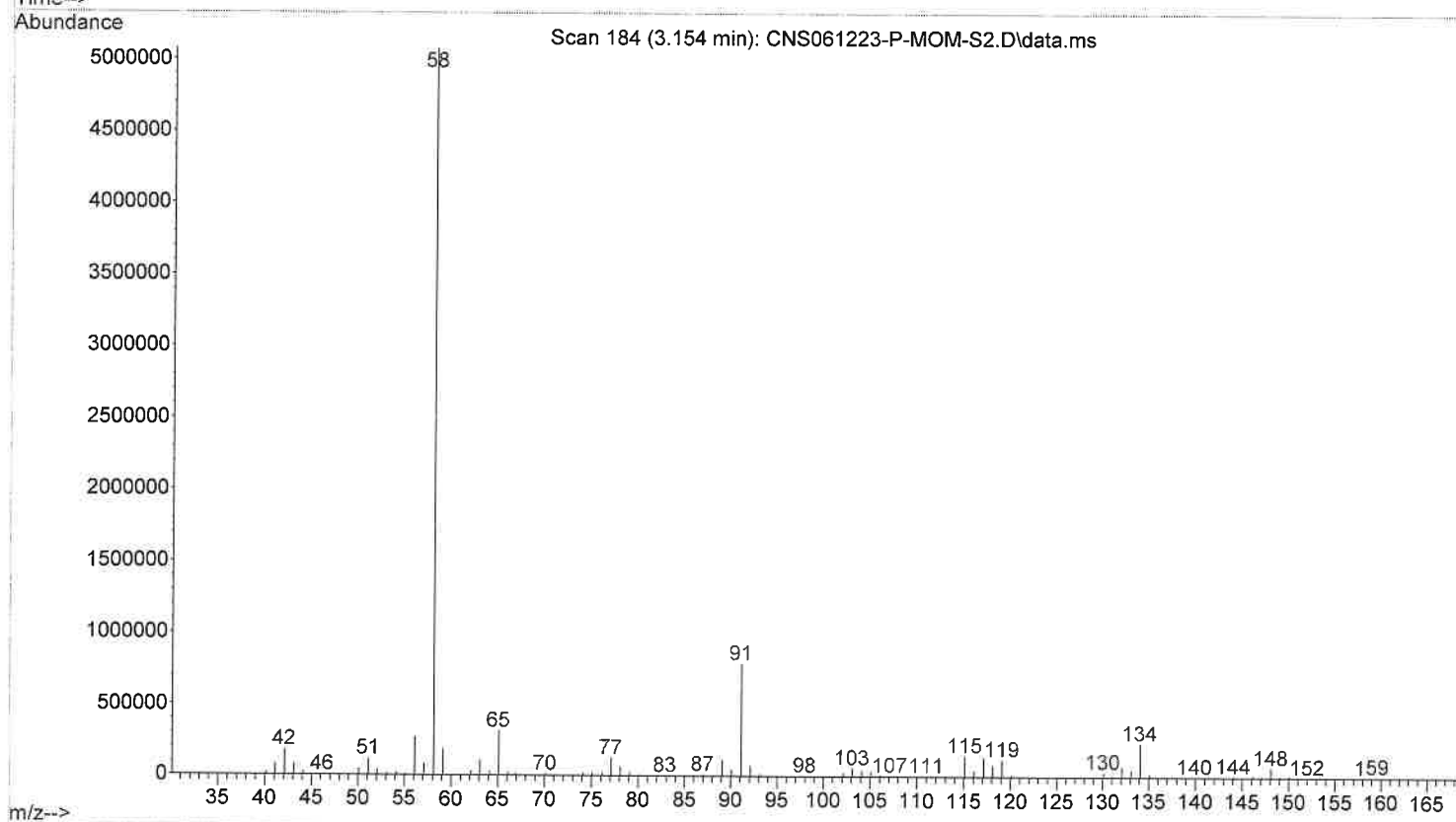
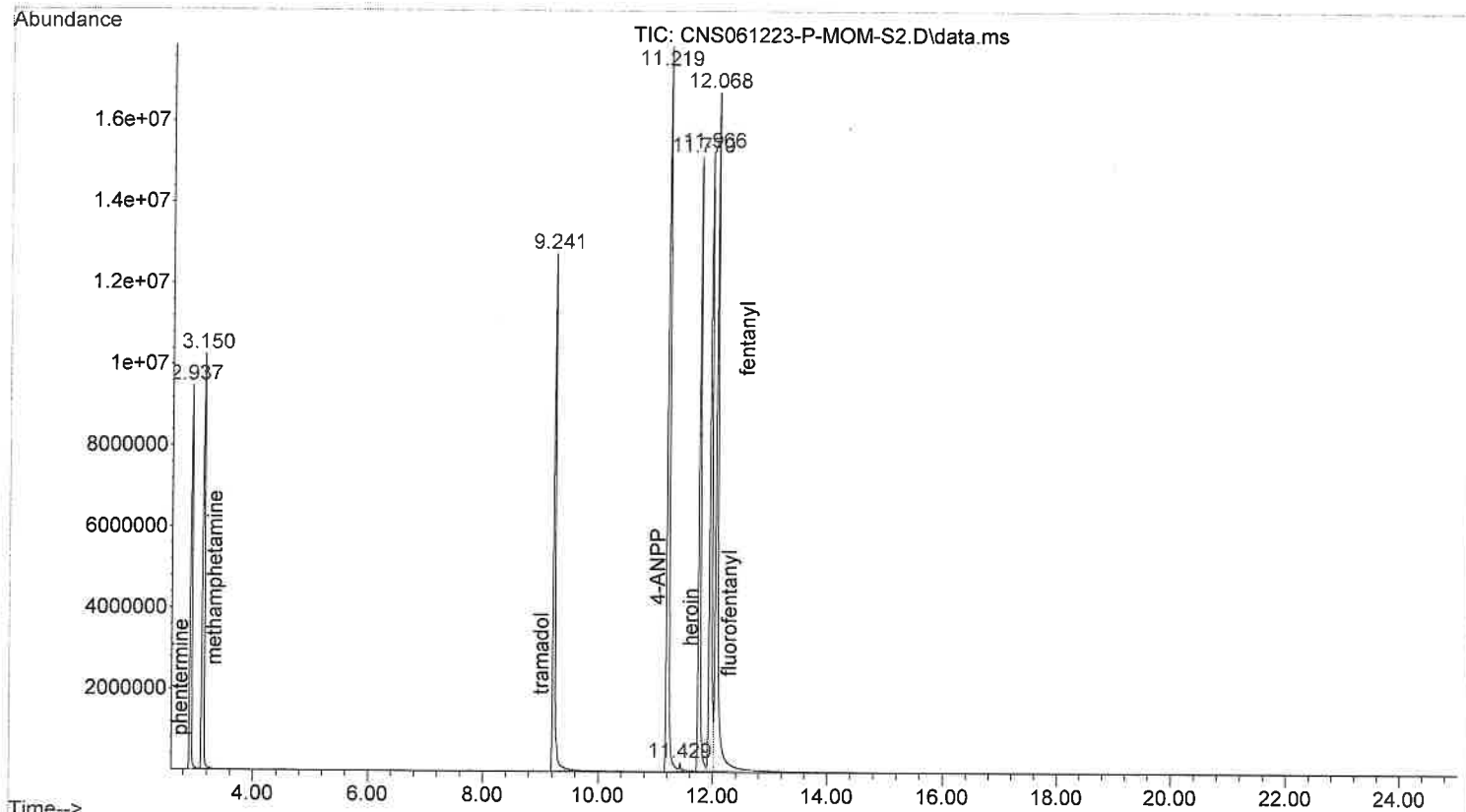
File : Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STEROID.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



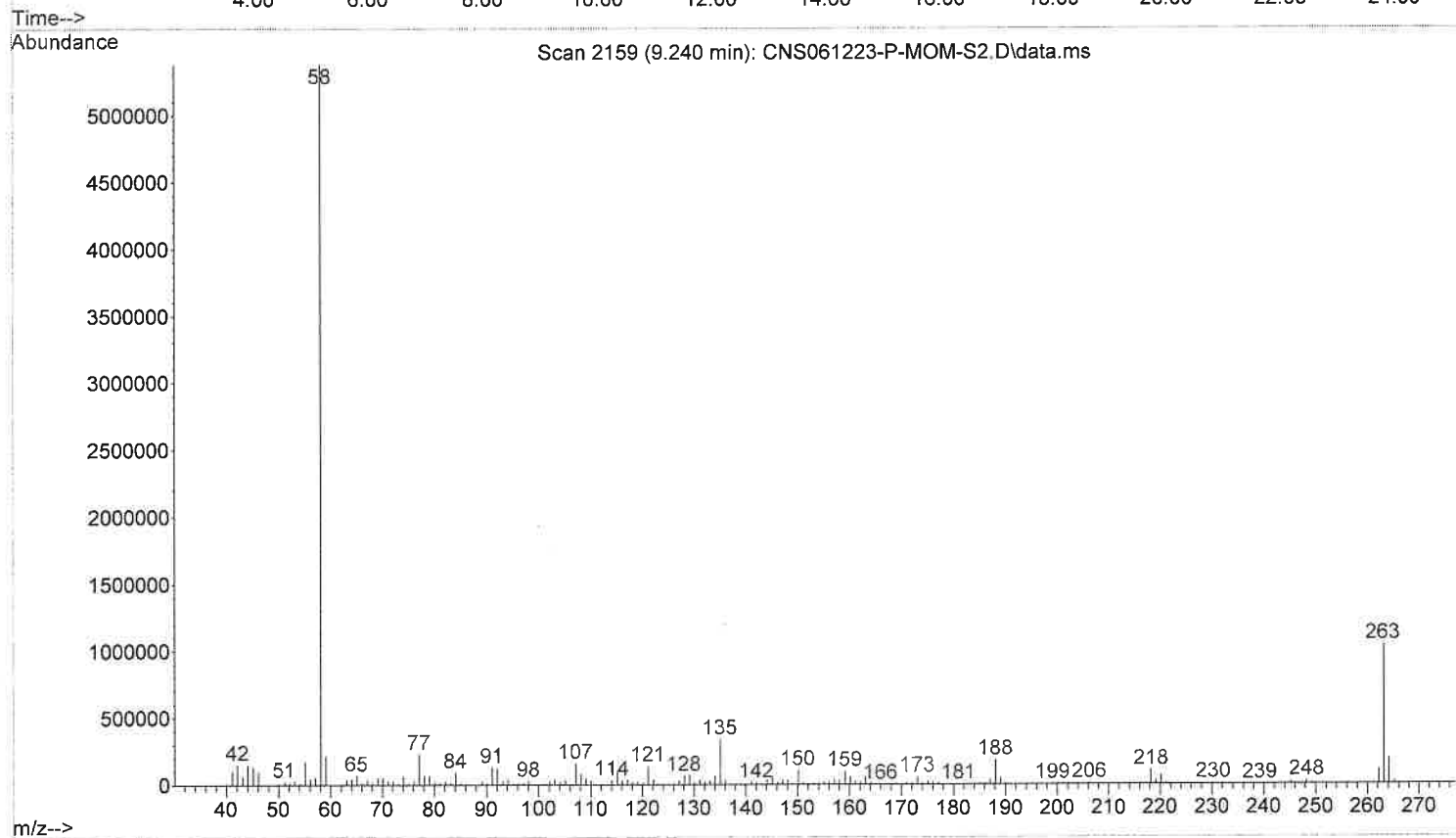
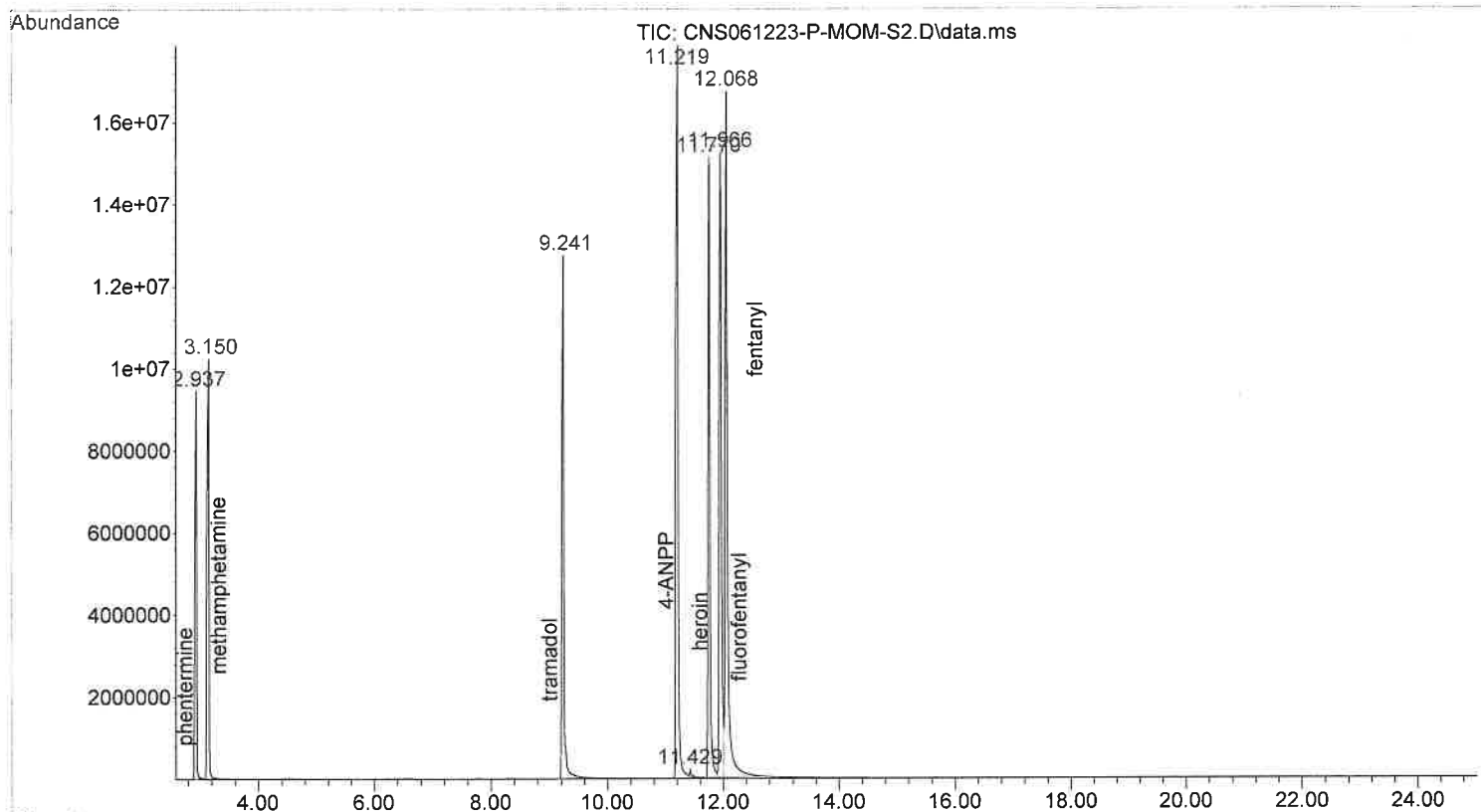
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Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STEROID.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



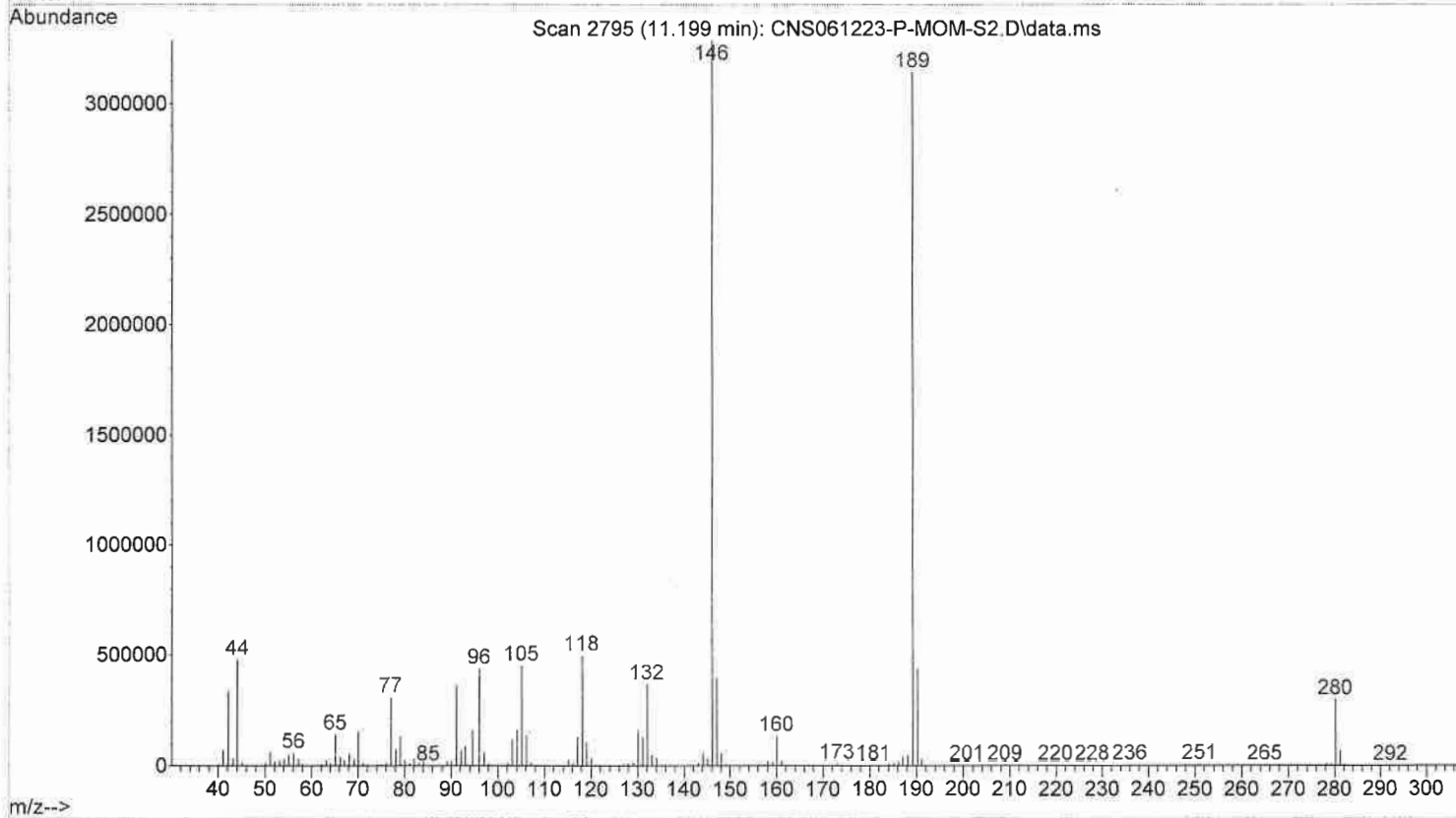
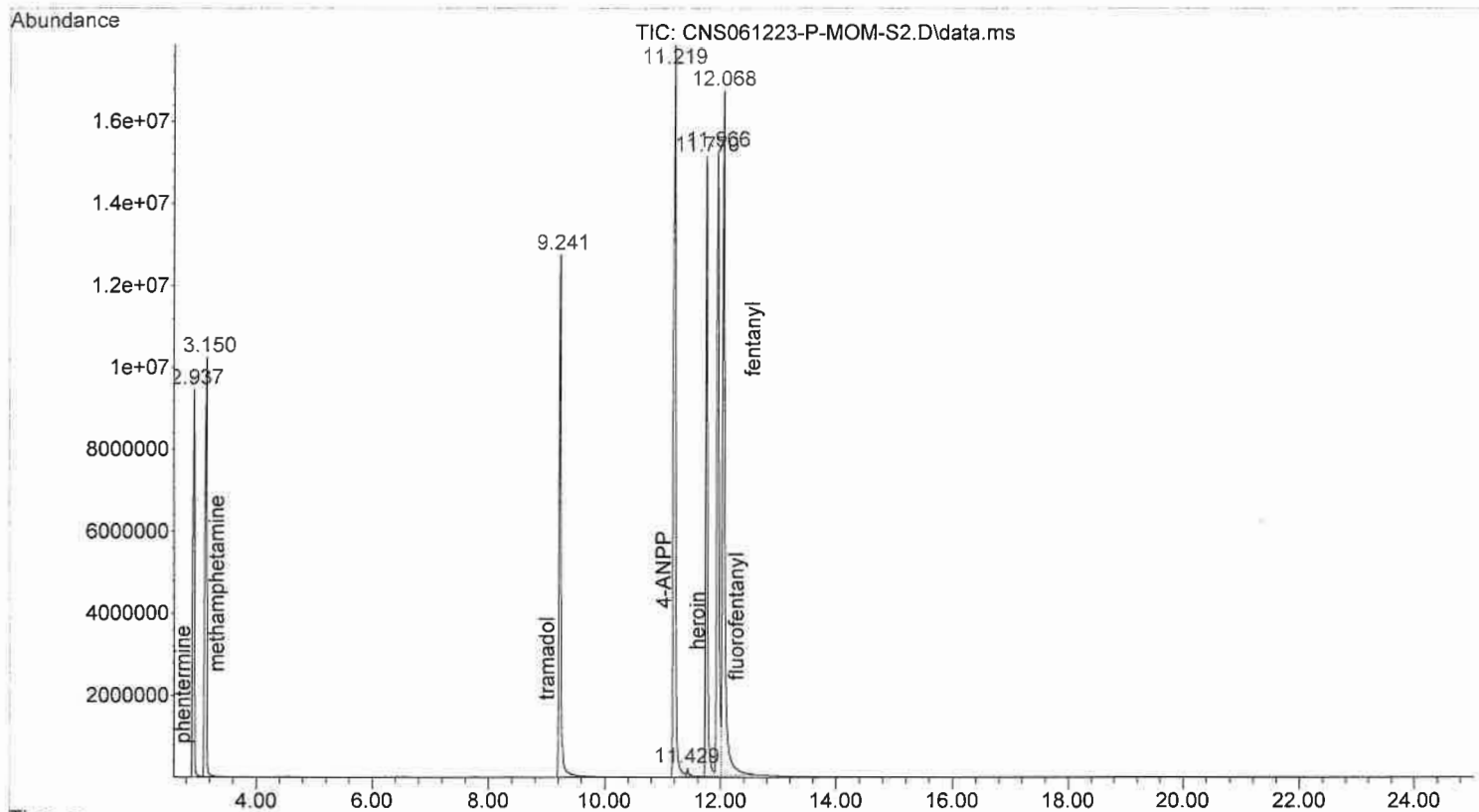
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Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STER0ID.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



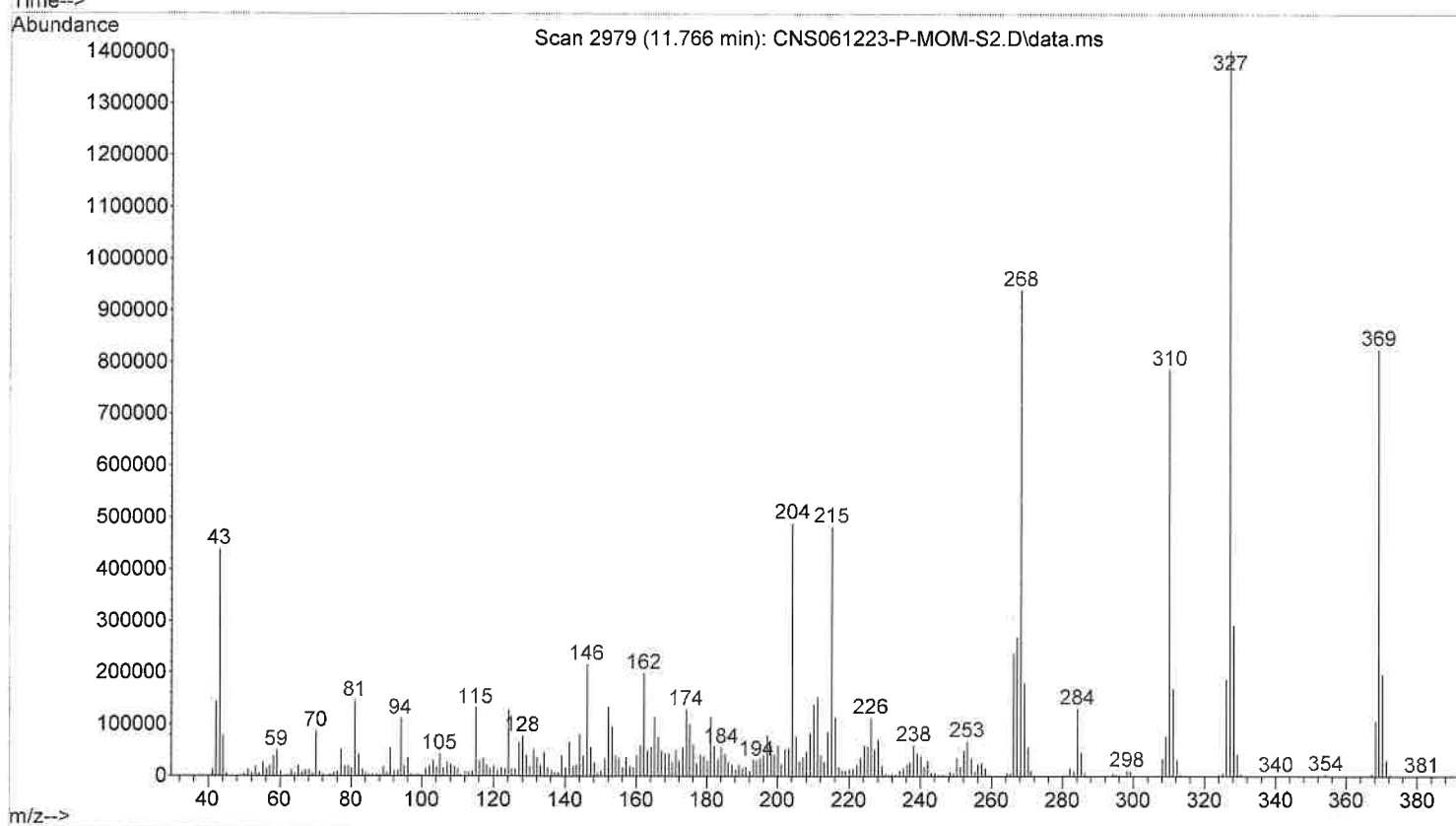
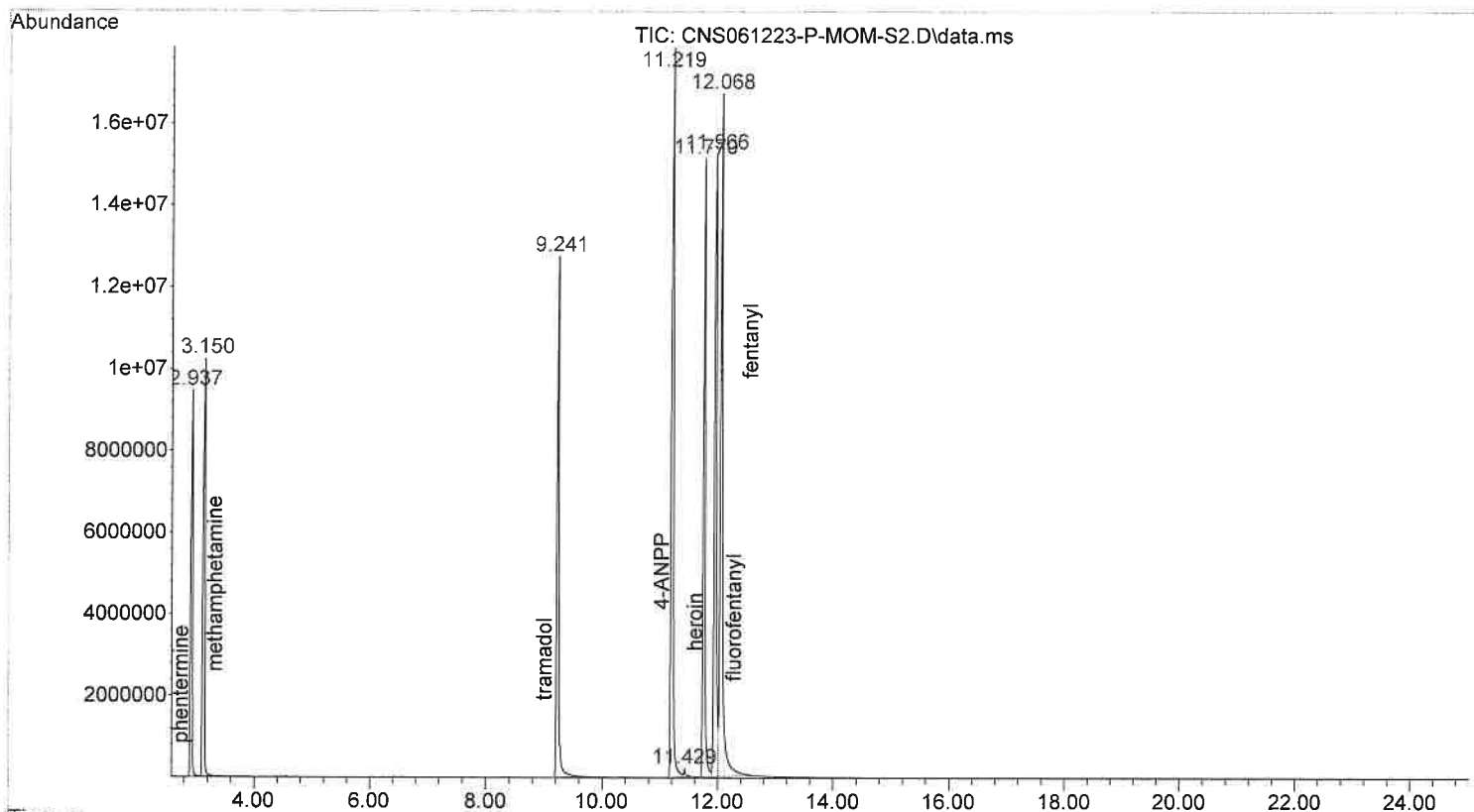
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Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STEROID.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



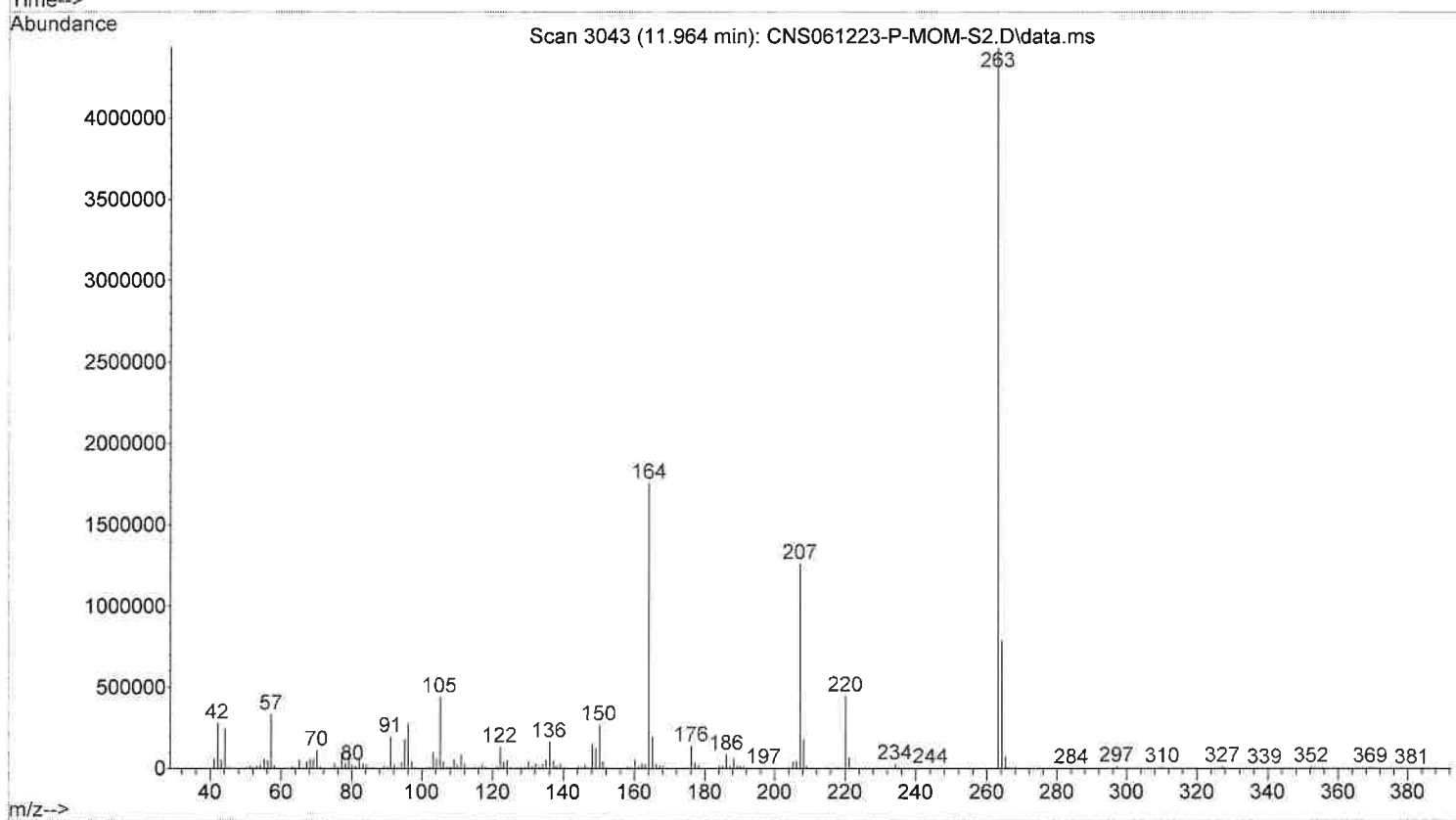
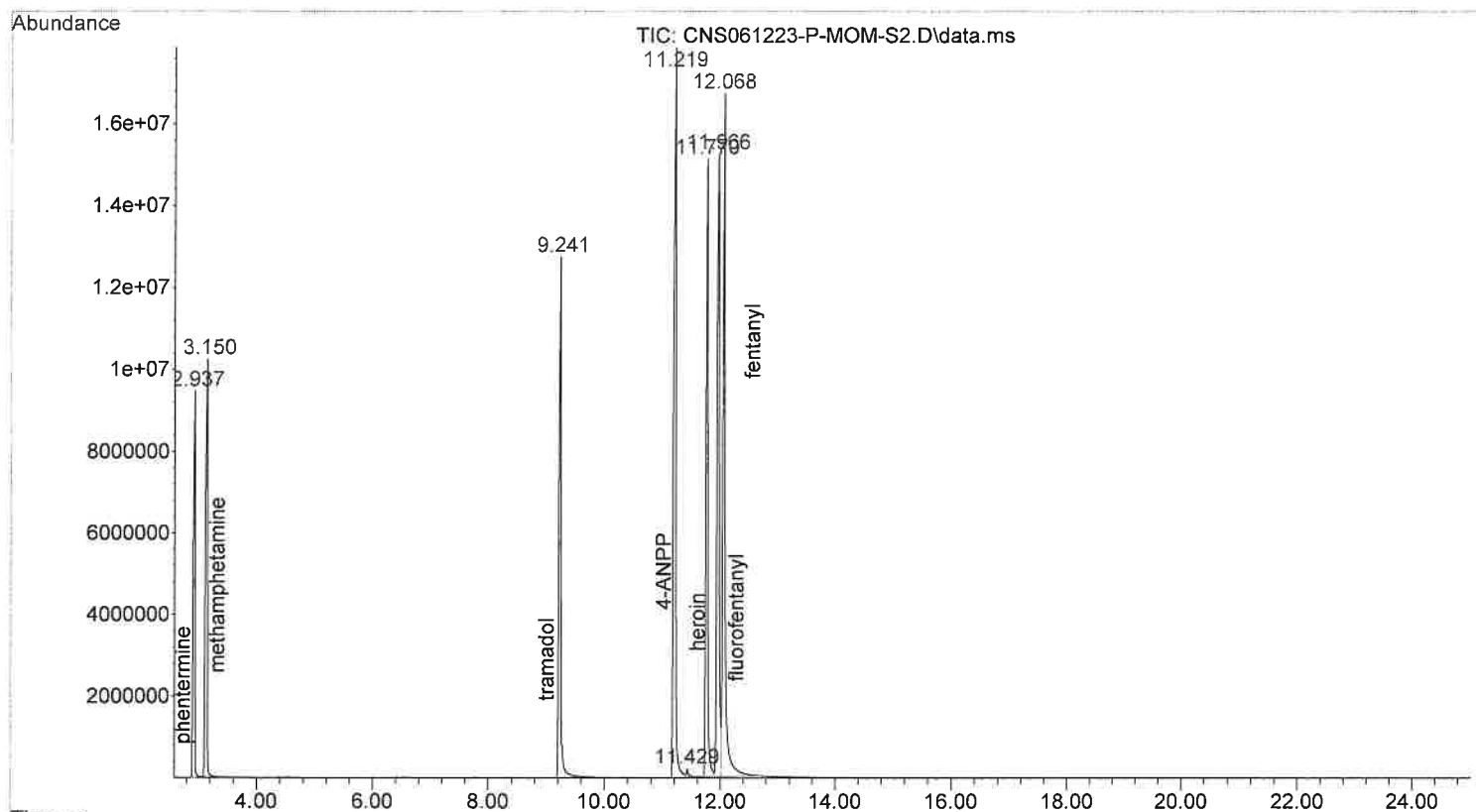
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STEROID.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



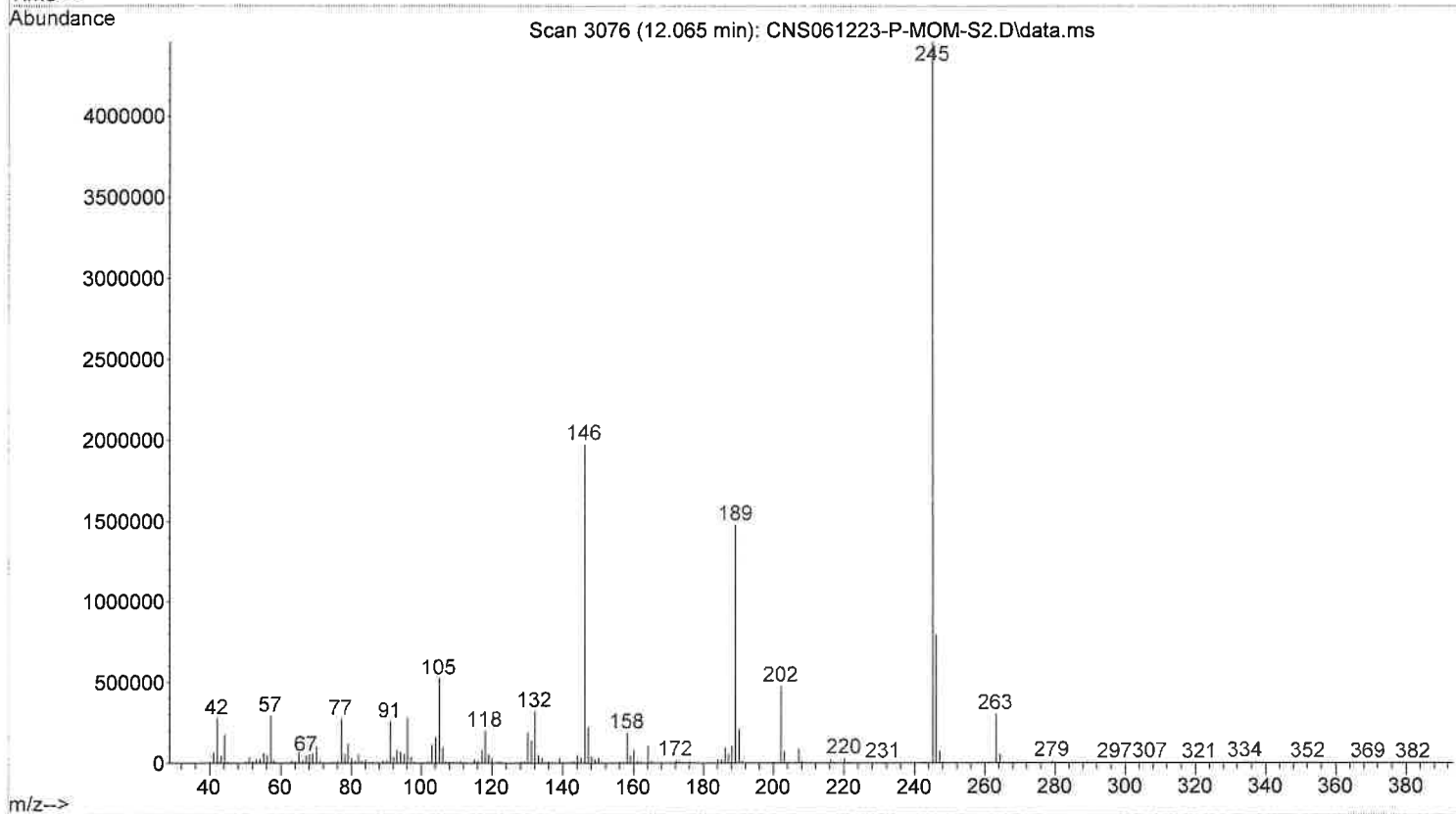
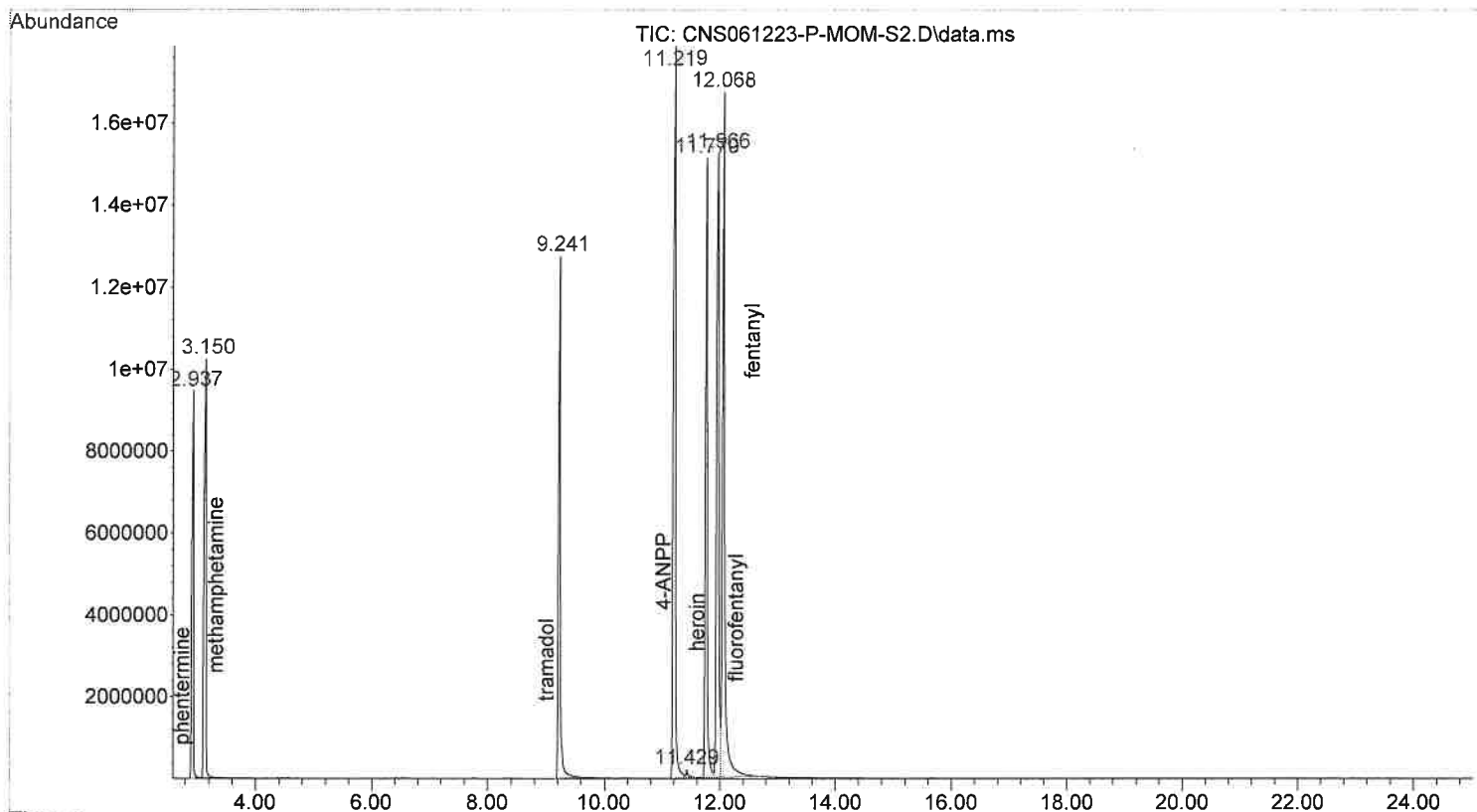
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STERIOD.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STERIOD.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3

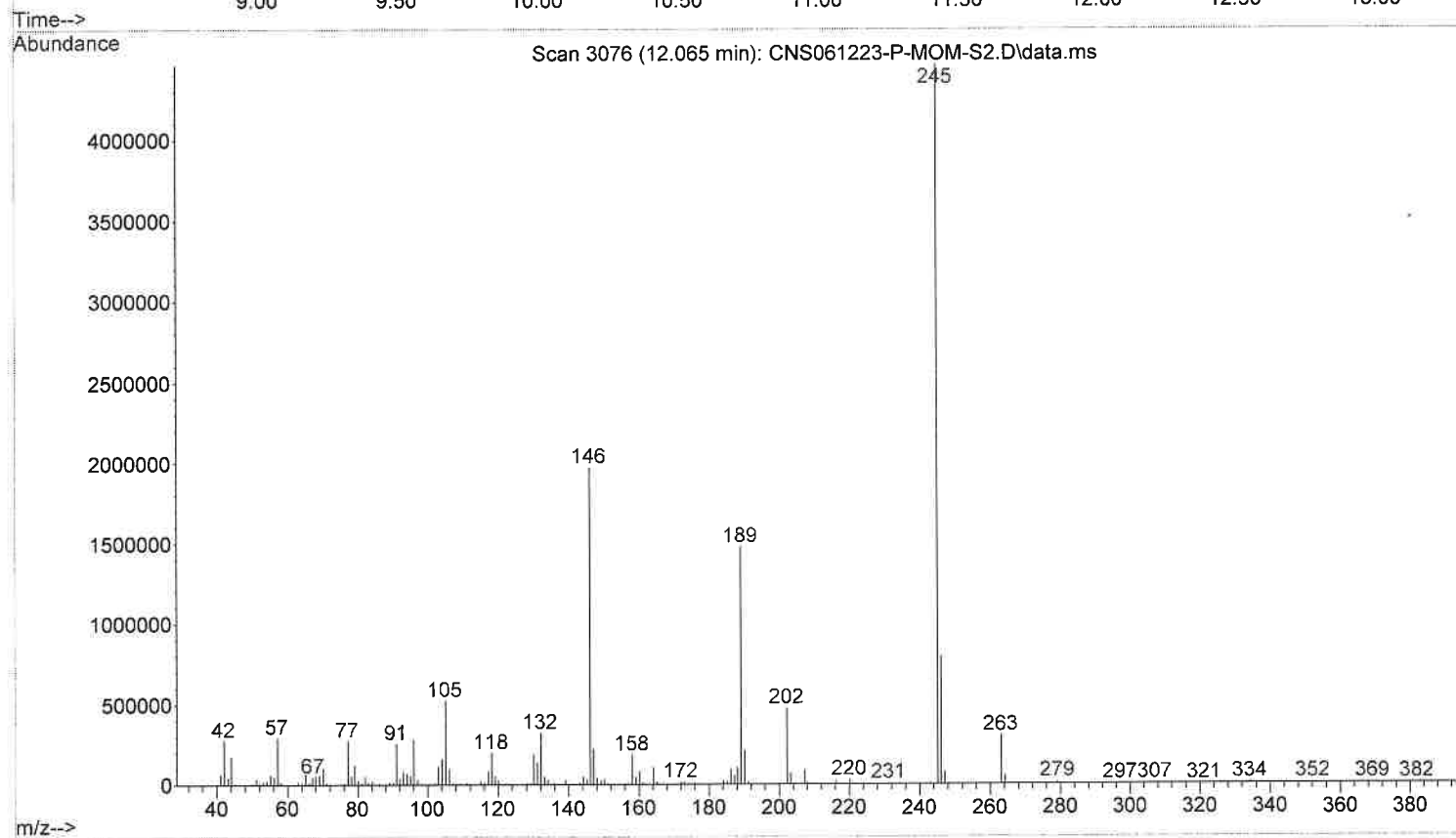
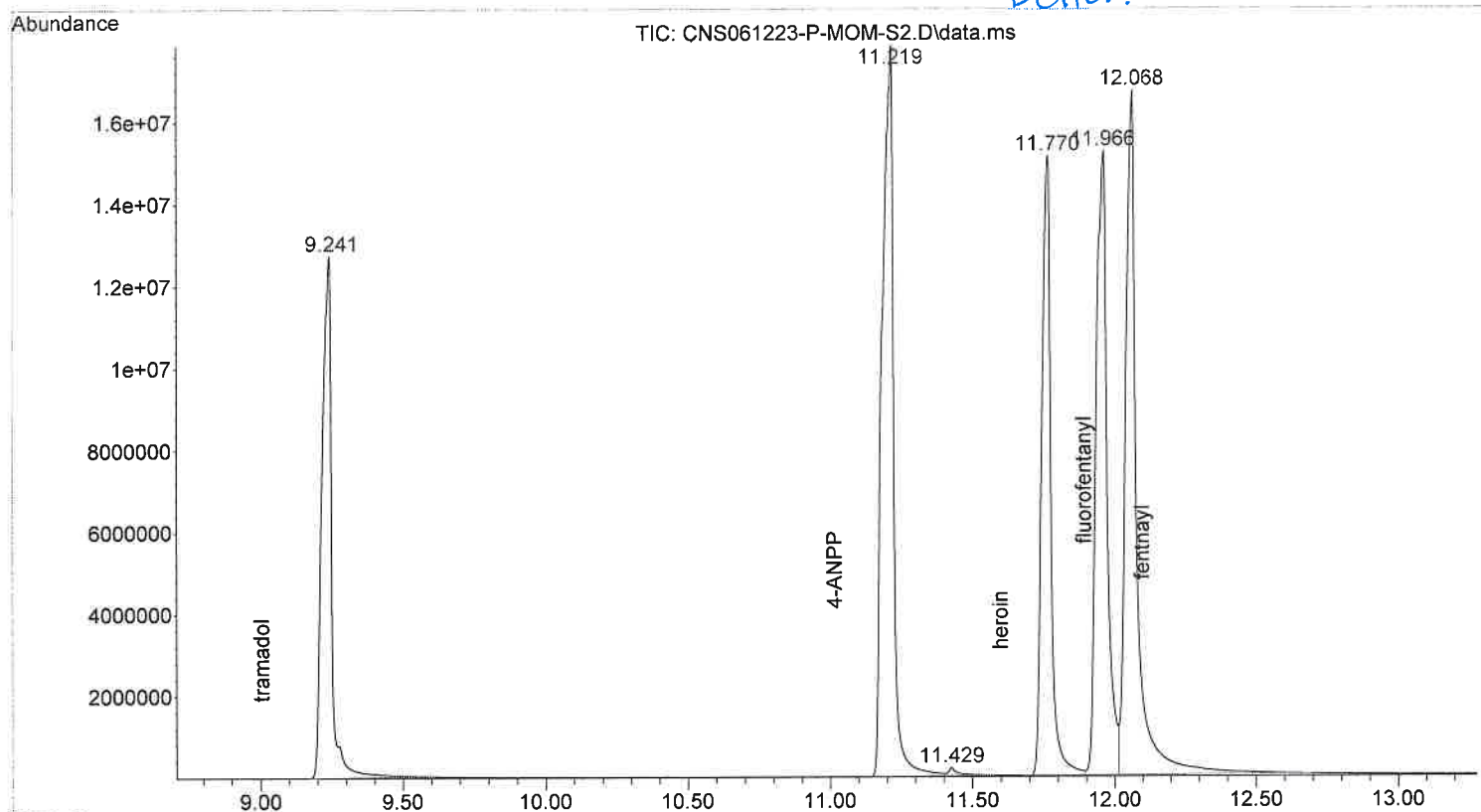


File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STERIOD.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3

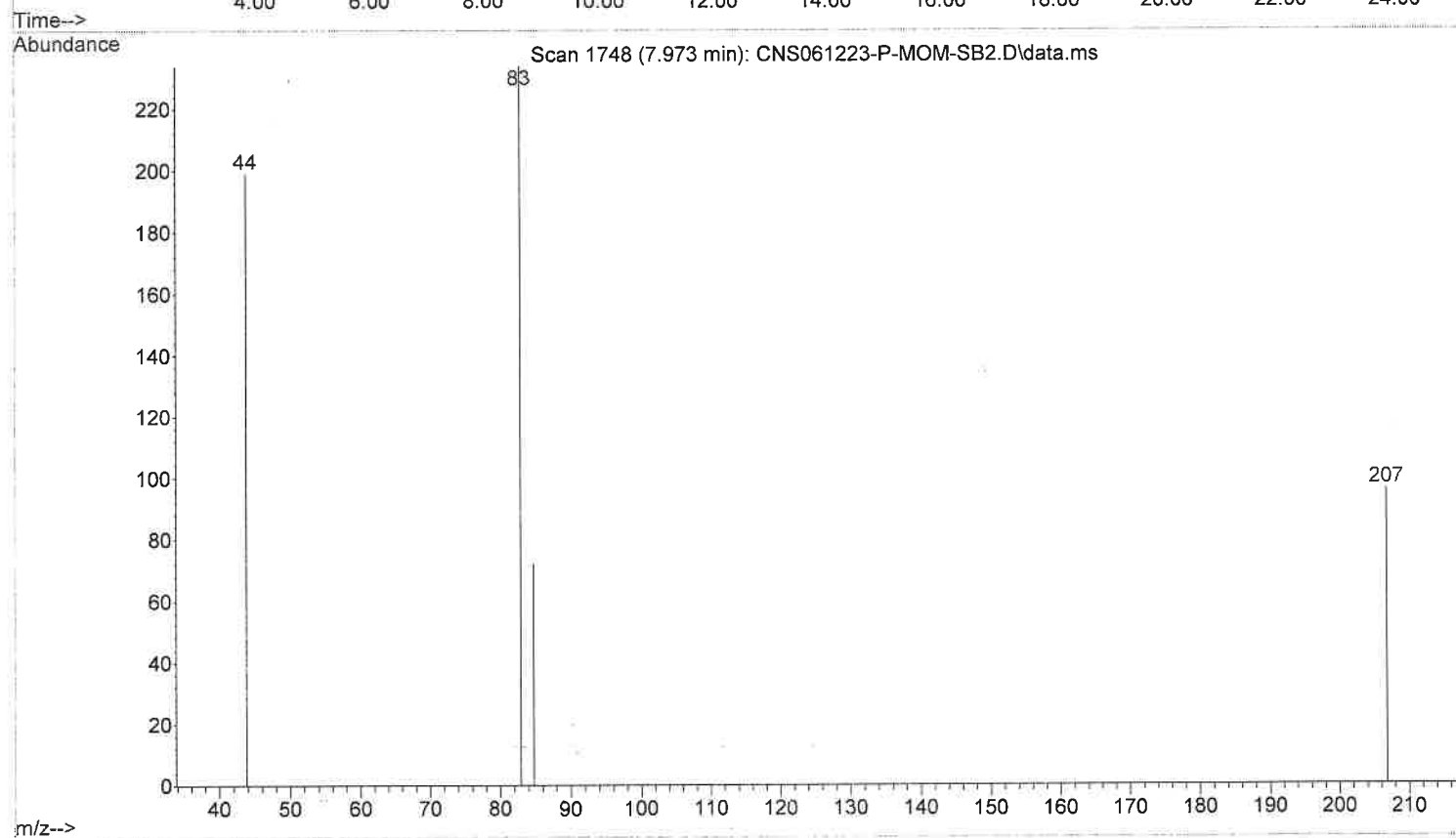
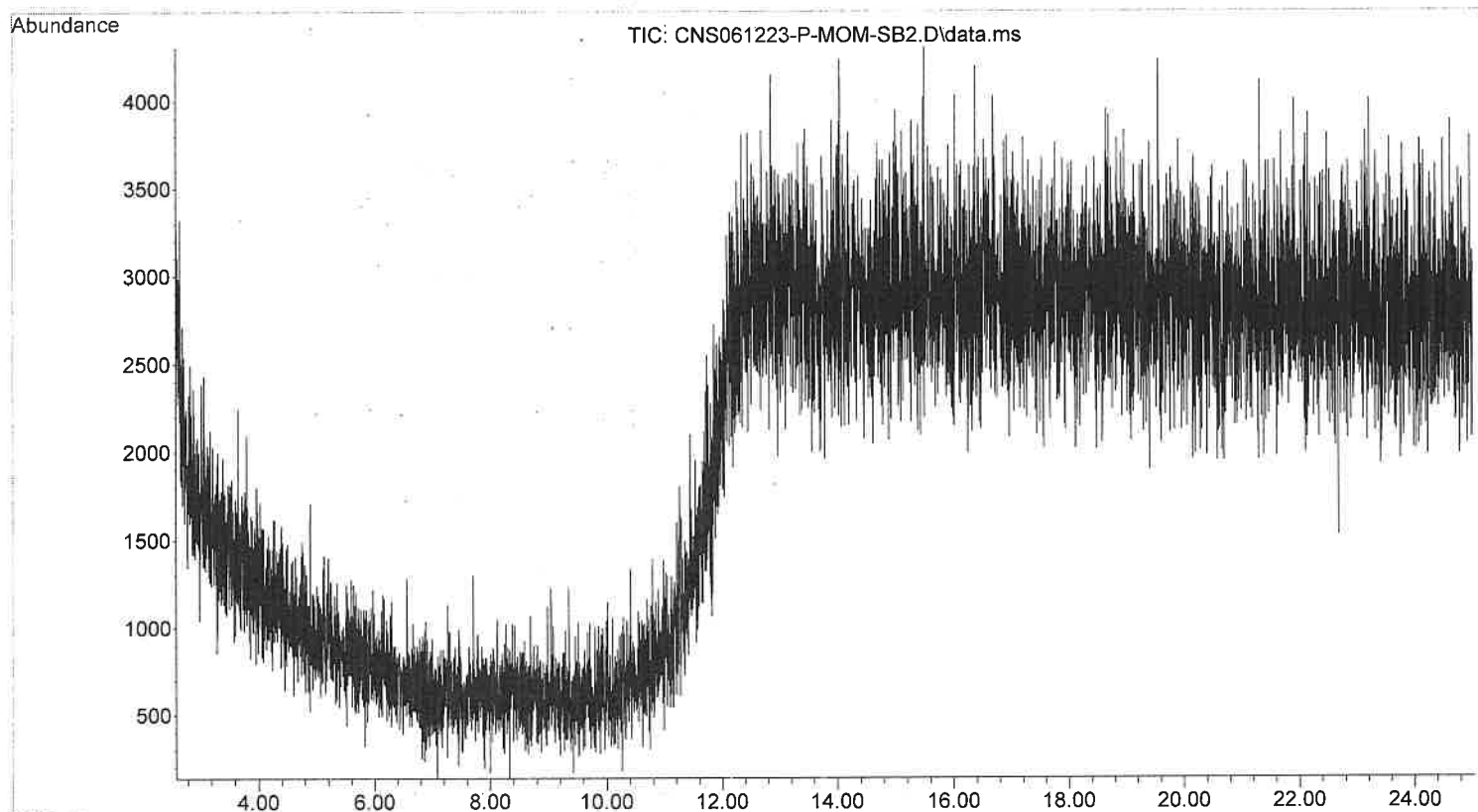


File : Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-S2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:38 using AcqMethod STERIOD.M
Instrument : Precious
Sample Name: P-MOM in CHCl3
Misc Info :
Vial Number: 3

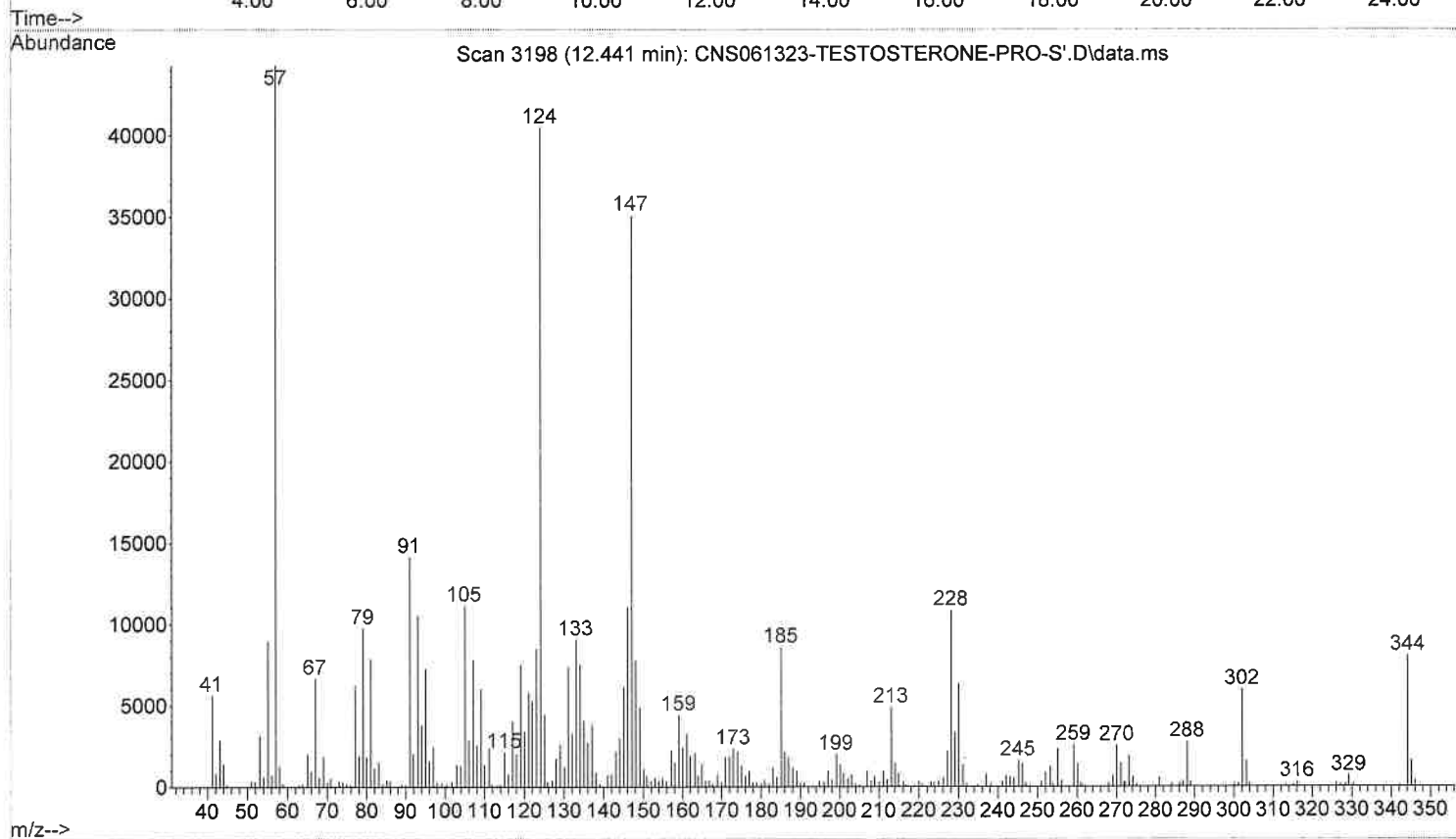
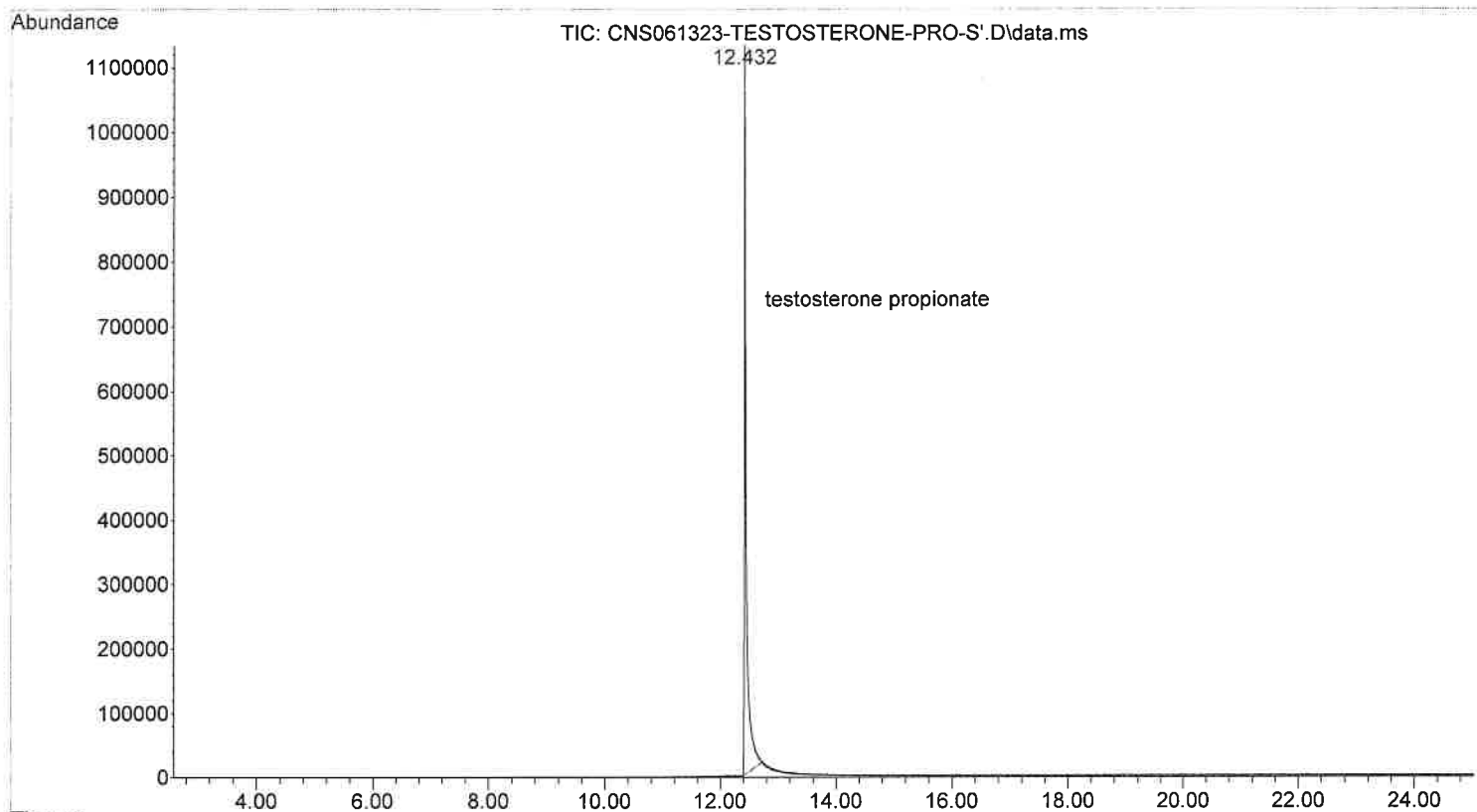
*Zoomed to see retention times
better.*



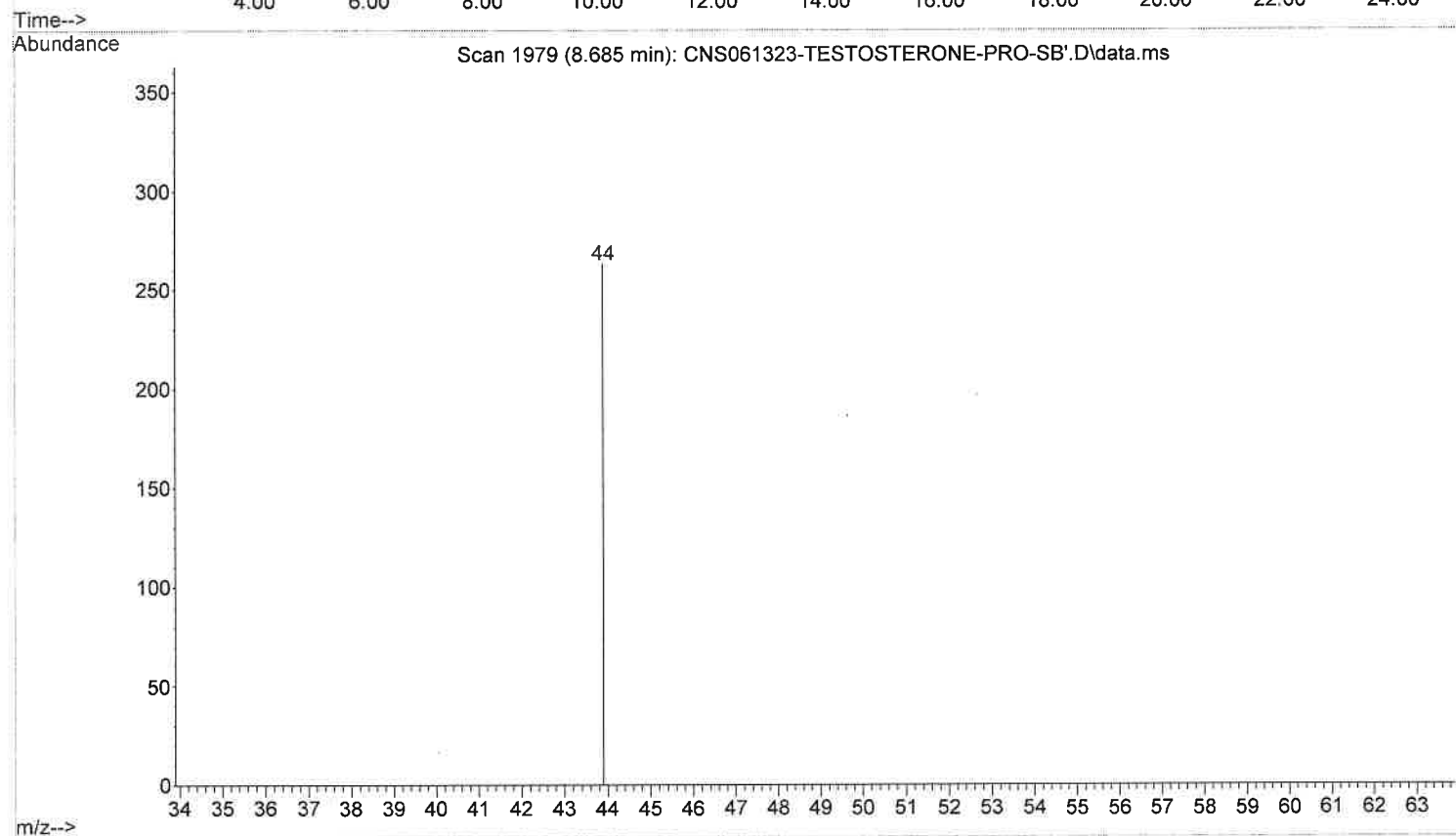
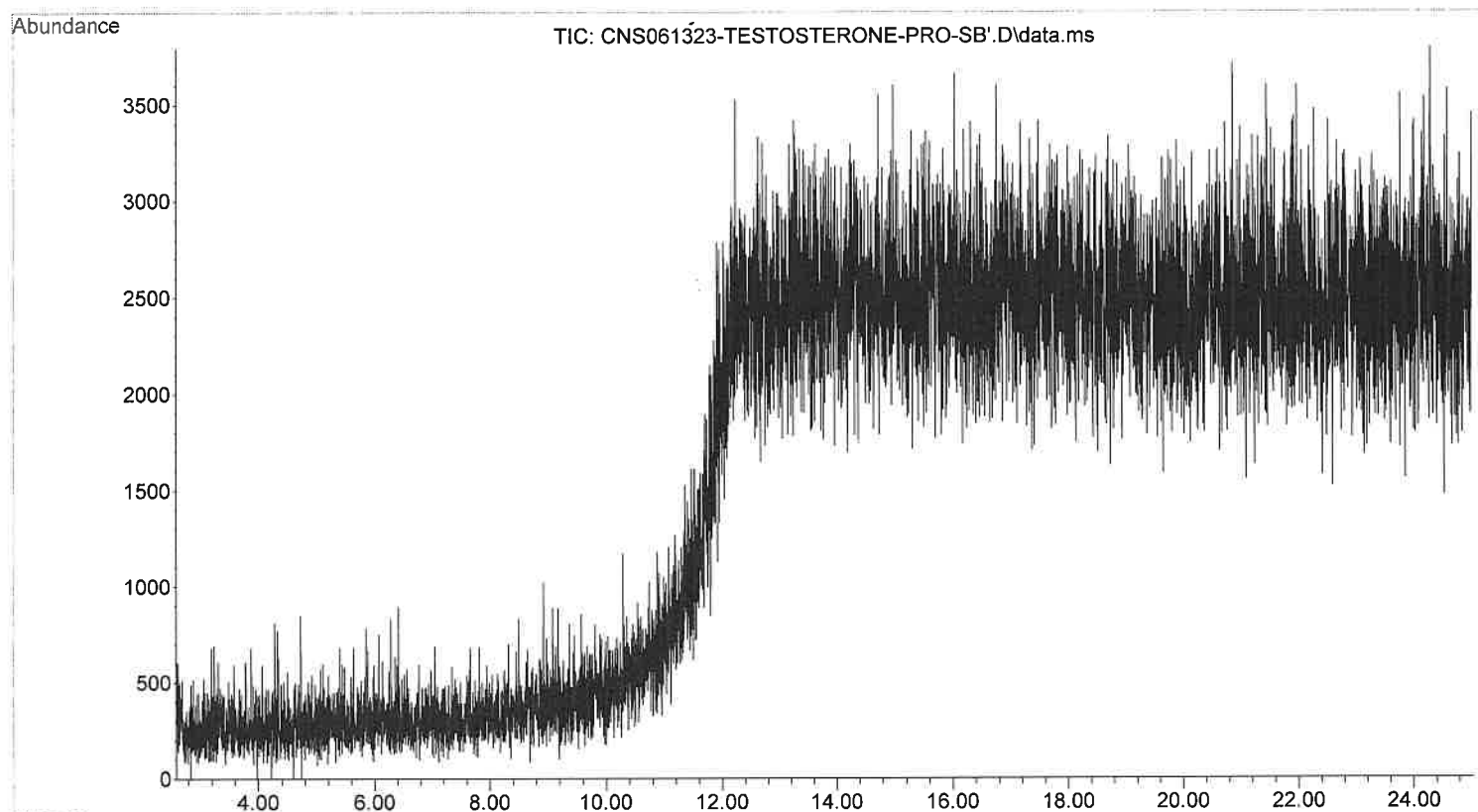
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061223-P-MOM-SB2.D
Operator : KLAB
Acquired : 12 Jun 2023 13:07 using AcqMethod STERIOD.M.
Instrument : Precious
Sample Name: CHLOROFORM BLANK FOR P-MOM
Misc Info :
Vial Number: 2



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061323-TESTOSTERON
... E-PRO-S'.D
Operator : KLAB
Instrument : Precious
Acquired : 13 Jun 2023 11:57 using AcqMethod STEROID.M
Sample Name: TESTOSTERONE PROPIONATE IN MeOH
Misc Info :



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS061323-TESTOSTERON
... E-PRO-SB'.D
Operator : KLAB
Instrument : Precious
Acquired : 13 Jun 2023 11:26 using AcqMethod STERIOD.M
Sample Name: METHANOL BLANK FOR TESTOSTERONE PROPIONATE
Misc Info :



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\THCMS.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

INSTRUMENT CONTROL PARAMETERS: Precious

C:\GCMS\1\methods\THCMS.M
Wed Jun 21 10:13:23 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 8 min
Post Run Time 0 min

Oven

Temperature
Setpoint On
(Initial) 200 °C
Hold Time 2 min
Post Run 50 °C
Program
#1 Rate 10 °C/min
#1 Value 240 °C
#1 Hold Time 2 min

Equilibration Time 0.5 min
Max Temperature 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS

Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 1
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

Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 280 °C
Pressure	On 17.295 psi
Gas Saver	On 20 After 2 min mL/min
Split Ratio	40 :1
Split Flow	44 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	67.521 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	1.1 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS
DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm

In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	200 °C
Pressure	17.295 psi
Flow	1.1 mL/min
Average Velocity	64.238 cm/sec
Holdup Time	0.31134 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	200 °C
Pressure	6.7158 psi
Flow	1.3504 mL/min
Average Velocity	36.19 cm/sec
Holdup Time	0.6908 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 5 He	
Pressure	

Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Signals

Signal #1: Front Signal

Description	Front Signal
Details	Front Signal (ECD)
Save	Off
Data Rate	50 Hz
Dual Injection Assignment	Front Sample
Zero Signal	Zero @ 0 min

Signal #2: Back Signal

Description	Back Signal
Details	Back Signal (FID)
Save	Off
Data Rate	20 Hz
Dual Injection Assignment	Back Sample
Zero Signal	Zero @ 0 min

Column 1 Inventory Number :

Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE_LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\THCMS.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No
Printer: Yes
File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50
C:\Database\Cayman052218.L 50
C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No
Printer: Yes
File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes

Printer: No

File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes

Non-Reference Window: 1.00 Minutes

Correlation Window: 0.10 minutes

Default Multiplier: 1.00

Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 10:13:25 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\THCMS.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
Solvent delay (min)	1.00
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
1.00	40	550	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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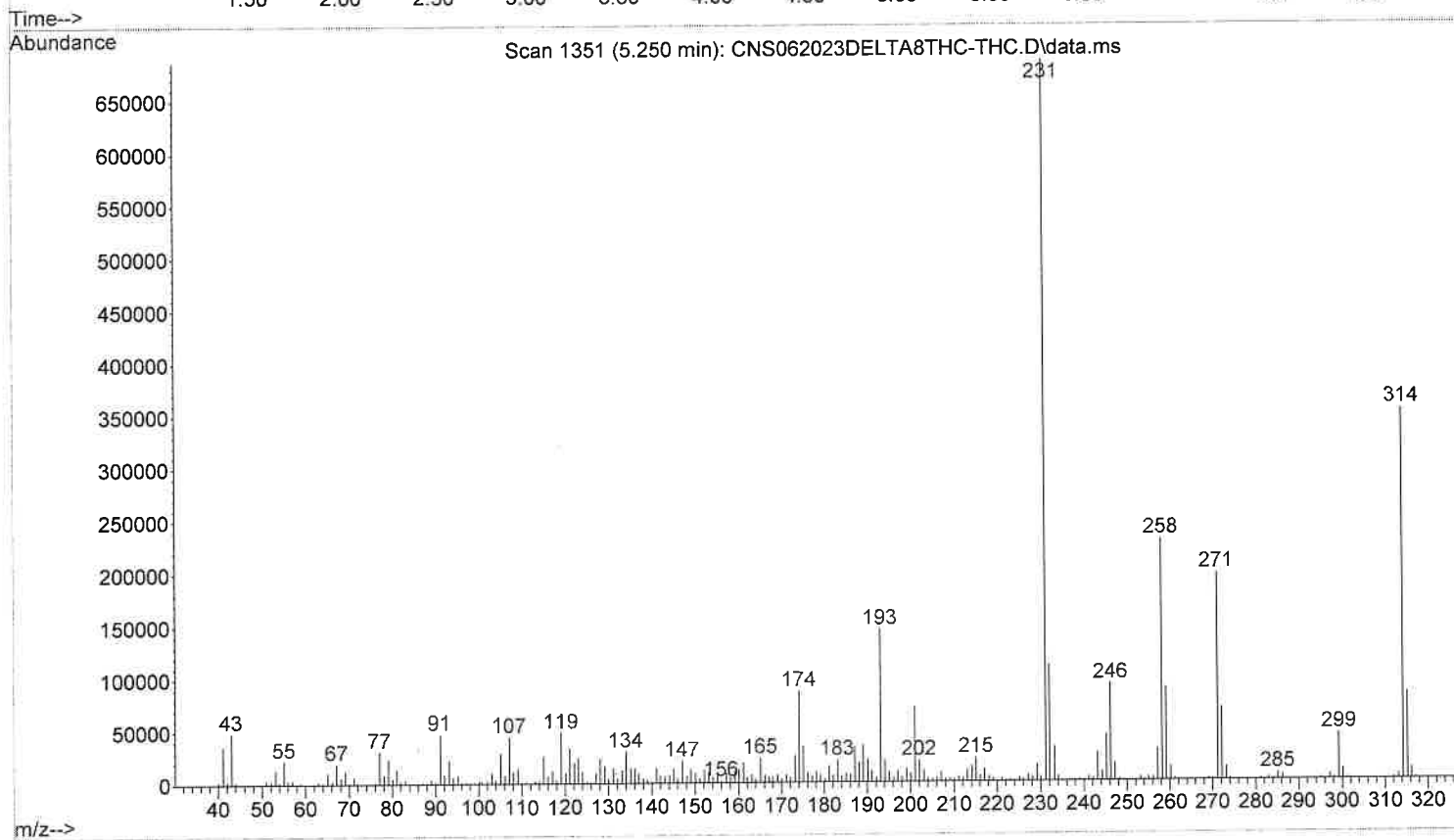
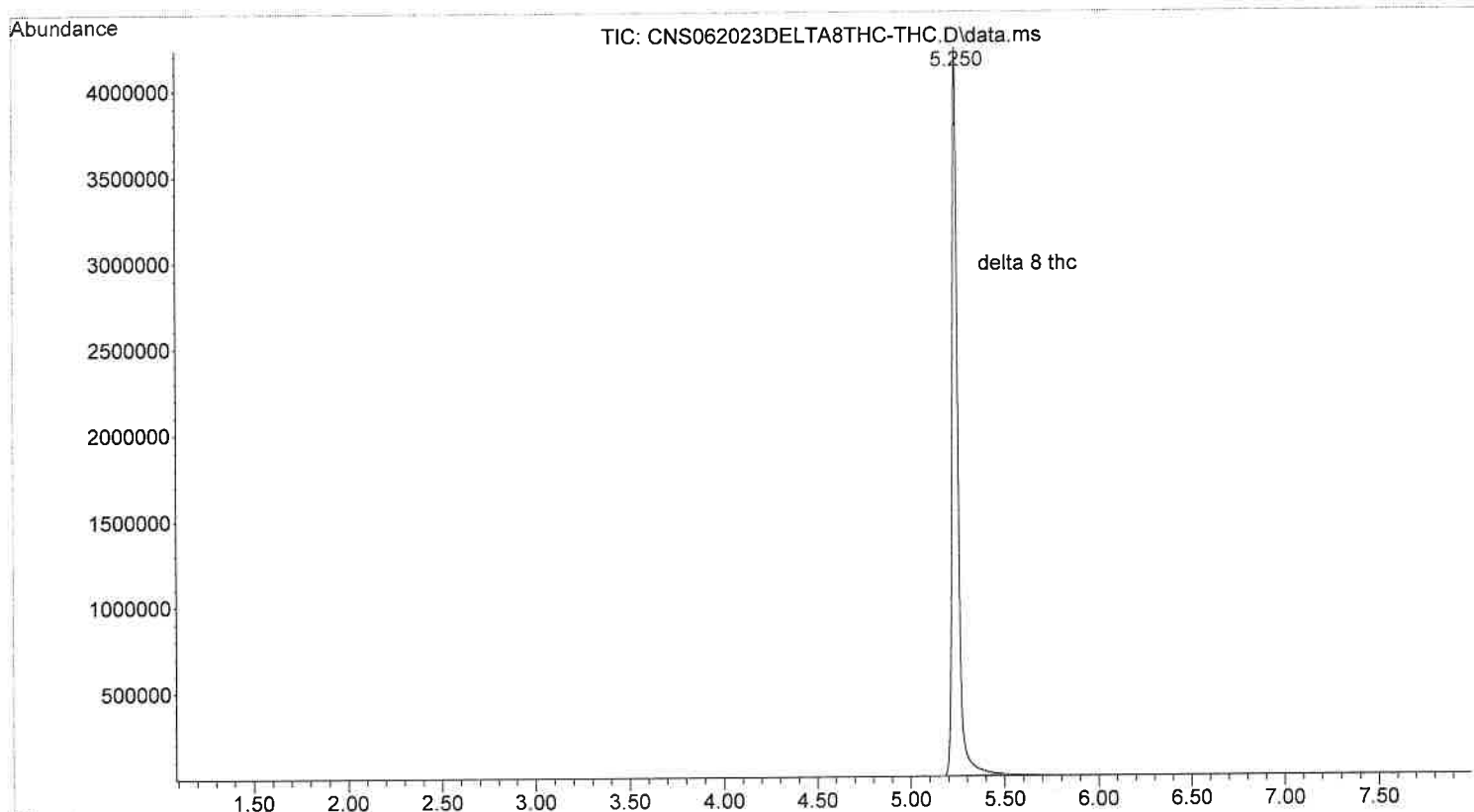
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

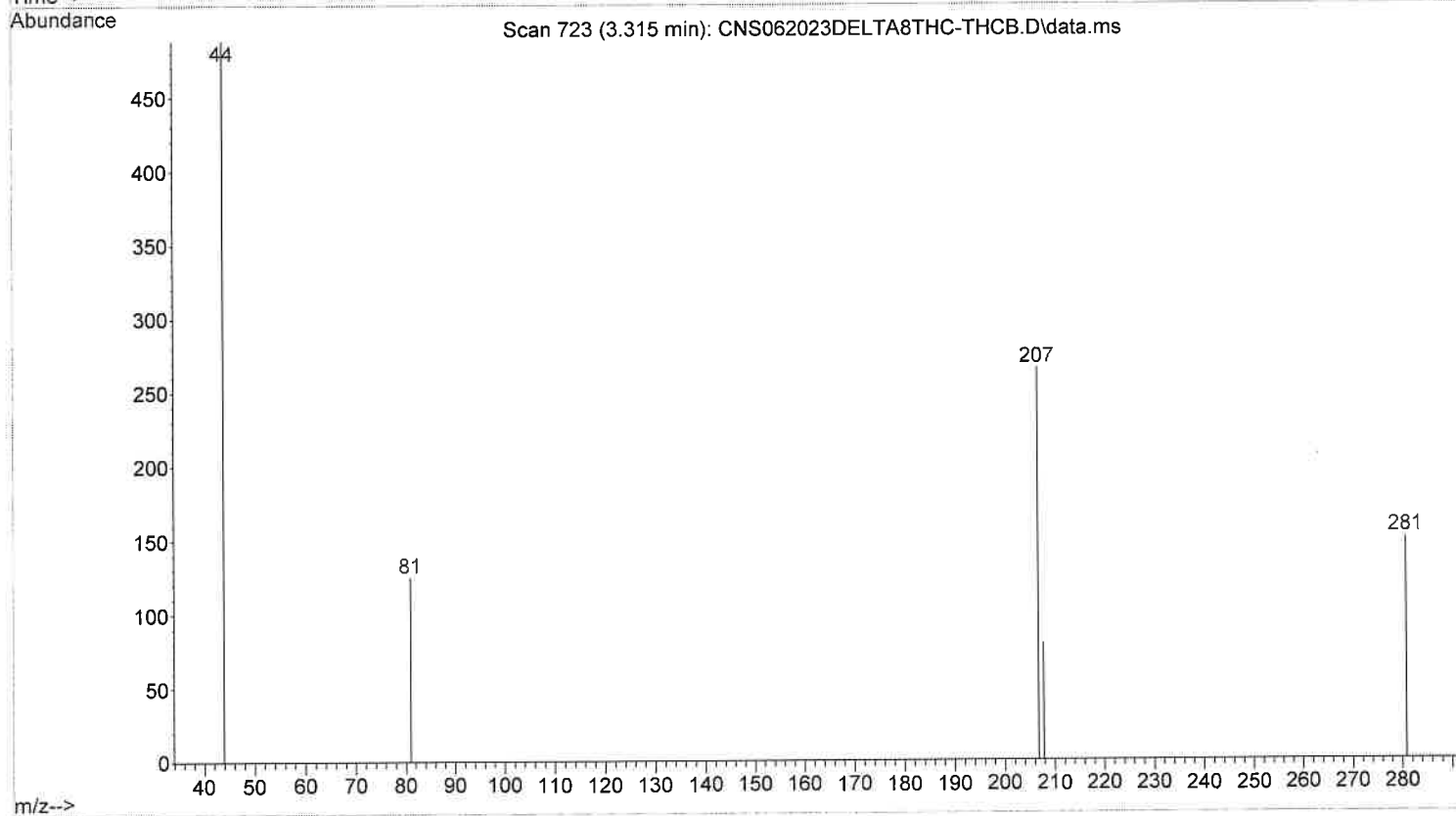
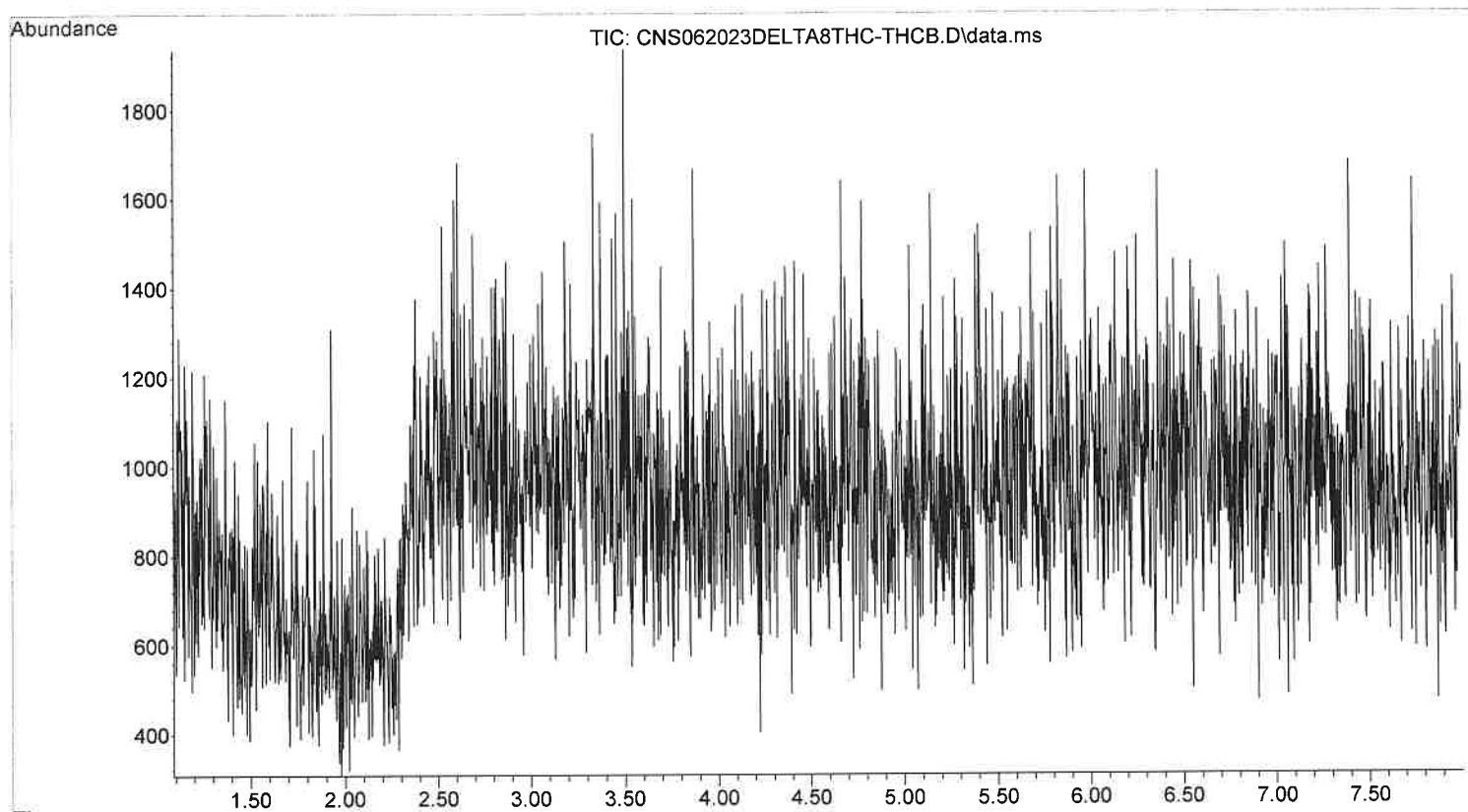
Self-Cleaning Ion Source Parameters

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

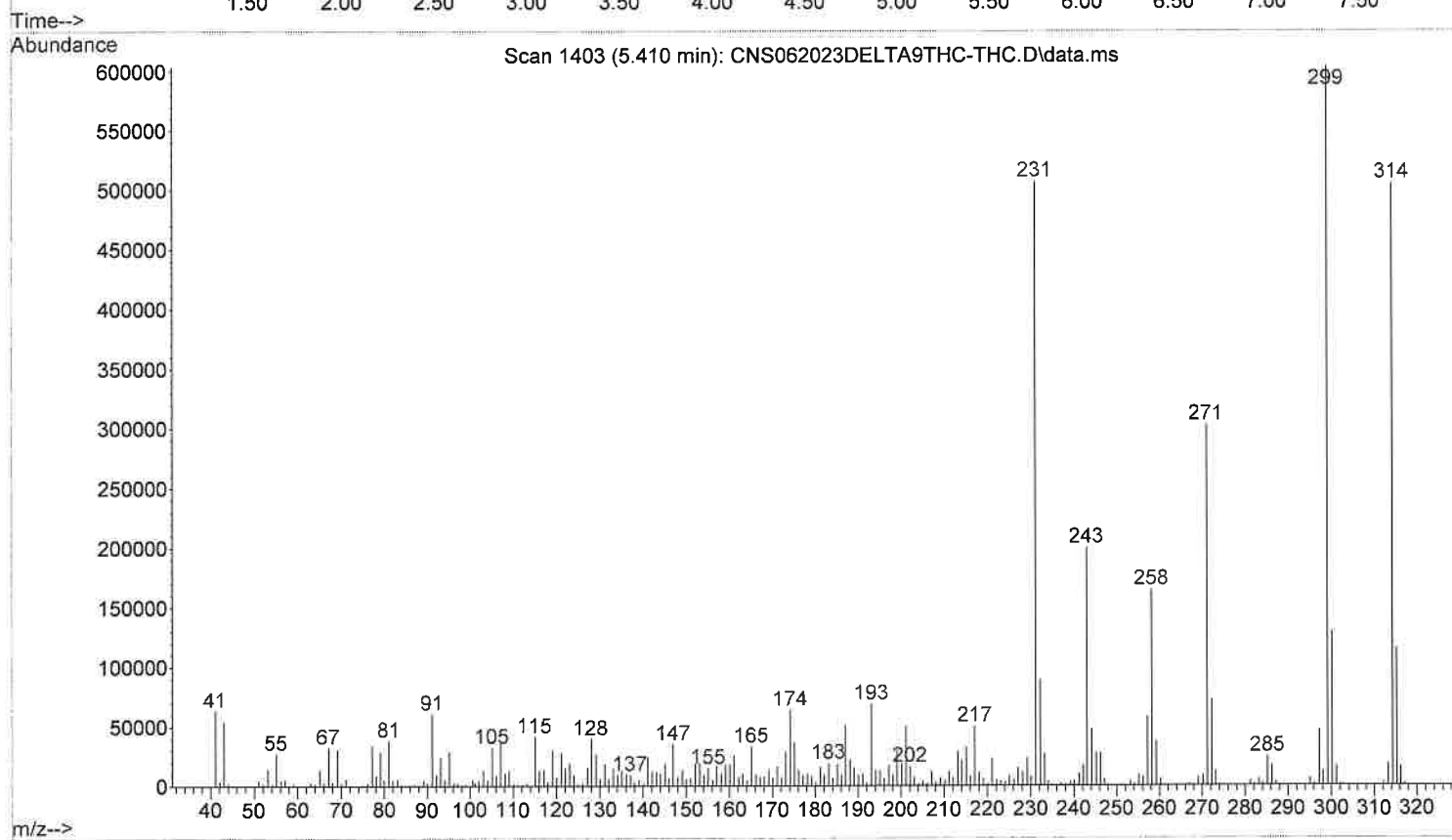
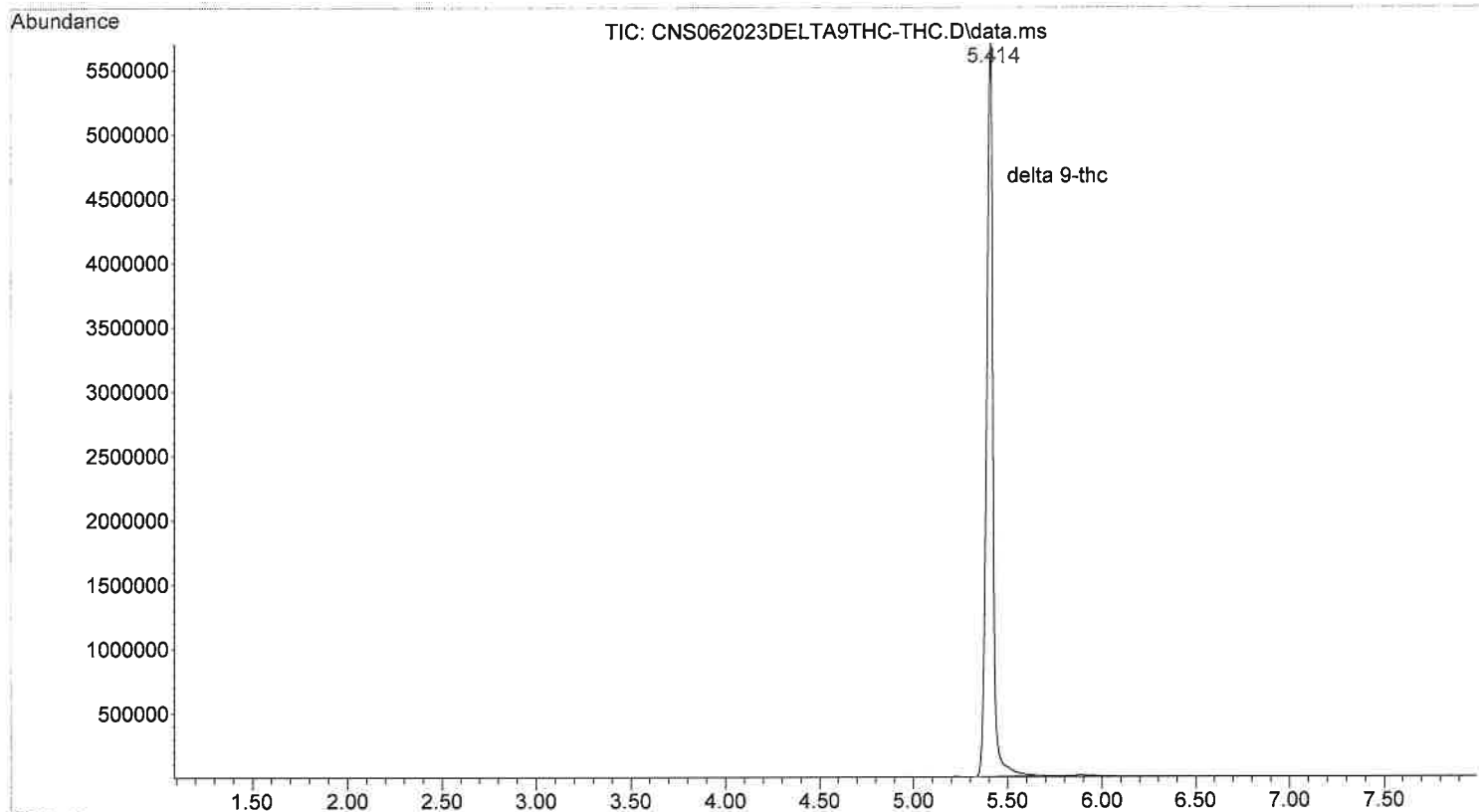
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DELTA8THC-TH
... C.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 23:06 using AcqMethod THCMS.M
Sample Name: DELTA 8-THC
Misc Info : MeOH



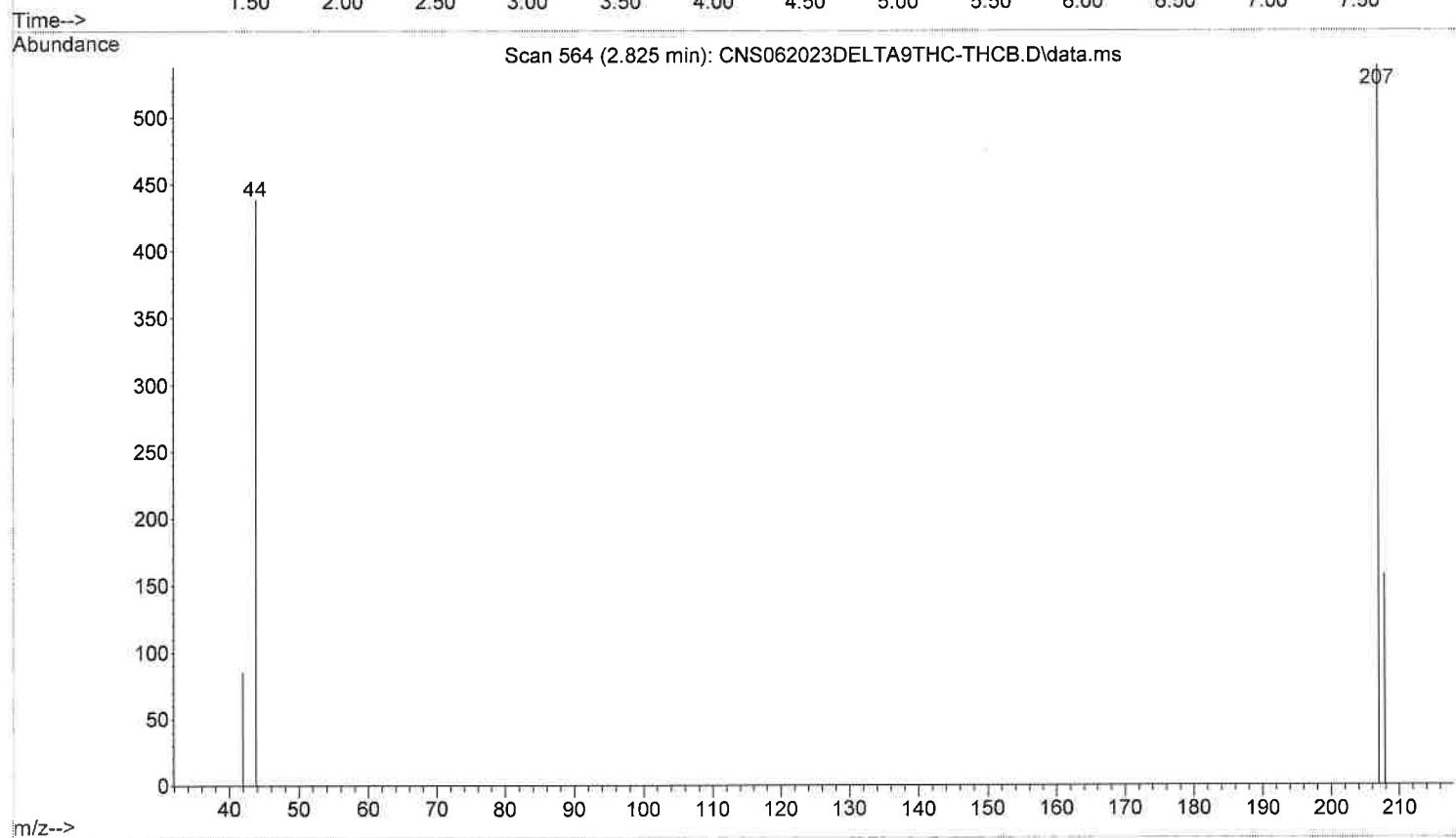
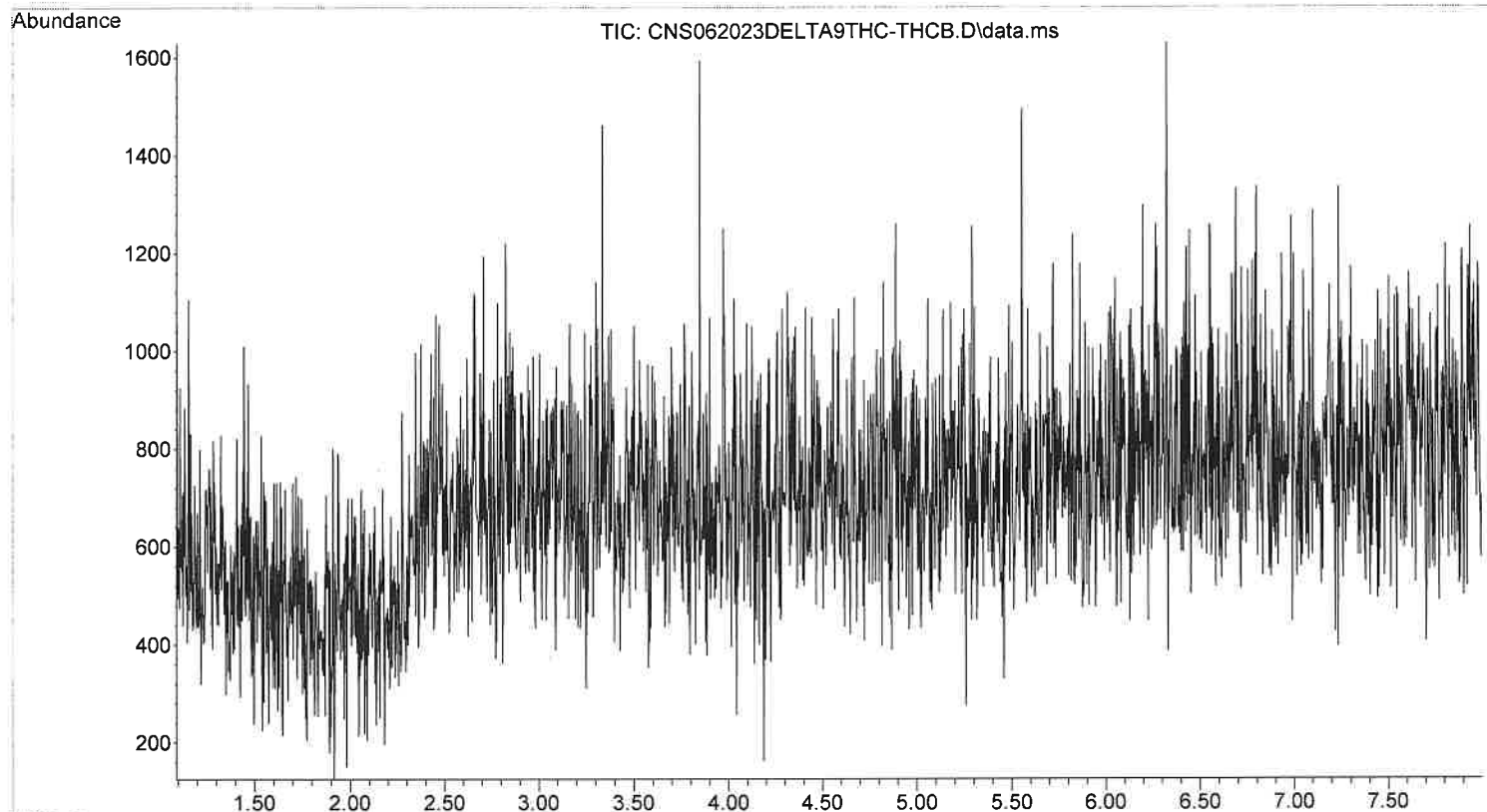
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DELTA8THC-TH
... CB.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 22:56 using AcqMethod THCMS.M
Sample Name: METHANOL BLANK
Misc Info : DELTA 8-THC



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DELTA9THC-TH
... C.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 23:55 using AcqMethod THCMS.M
Sample Name: DELTA 9-THC
Misc Info : MeOH



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023DELTA9THC-TH
... CB.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 23:45 using AcqMethod THCMS.M
Sample Name: METHANOL BLANK
Misc Info : DELTA 9-THC



METHOD CONTROL PARAMETERS

Method Information for: C:\GCMS\1\methods\XLDRUGS.M

Method Sections To Run:

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

Method Comments:

END OF METHOD CONTROL PARAMETERS

C:\GCMS\1\methods\XLDRUGS.M

Wed Jun 21 10:18:56 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 50 °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 350 °C
Maximum Temperature Override Disabled
Slow Fan Disabled

ALS

Front Injector
Syringe Size 10 µL
Injection Volume 1 µL
Injection Repetitions 1
Injection Delay 0 sec
Solvent A Washes (PreInj) 2
Solvent A Washes (PostInj) 2
Solvent A Volume 8 µL
Solvent B Washes (PreInj) 2
Solvent B Washes (PostInj) 2
Solvent B Volume 8 µL
Sample Washes 1
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
Solvent Wash Mode	A, B
Back Injector	
Syringe Size	10 µL
Injection Volume	1 µL
Injection Repetitions	1
Injection Delay	0 sec
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	0
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
Solvent Wash Mode	A, B
ALS Errors	Pause for user interaction
Front SS Inlet He	
Mode	Split
Heater	On 250 °C
Pressure	On 7.59 psi
Gas Saver	On 15 After 2 min mL/min
Split Ratio	30 :1
Split Flow	27.474 mL/min
Liner	A Liner has not been selected.
Back SS Inlet He	
Mode	Split
Heater	Off
Pressure	Off
Gas Saver	Off
Split Ratio	50 :1
Split Flow	115.83 mL/min
Liner	A Liner has not been selected.
Thermal Aux 2 (MSD Transfer Line)	
Temperature	
Setpoint	On
(Initial)	280 °C
Column	
Column #1	
Flow	
Setpoint	On
(Initial)	0.9158 mL/min
Post Run	0.969 mL/min
Column Information	Agilent 128-0112: DB-1MS

DB-1ms	
Temperature Range	-60 °C-340 °C (350 °C)
Dimensions	12 m x 200 µm x 0.33 µm
In	Front SS Inlet He
Out	MSD
Column Outlet Pressure	MSD
(Initial)	70 °C
Pressure	7.59 psi
Flow	0.9158 mL/min
Average Velocity	55.677 cm/sec
Holdup Time	0.35921 min
Control Mode	Constant Flow
Column #2	
Pressure	
Setpoint	Off
(Initial)	6.7158 psi
Post Run	0 psi
Column Information	Agilent 19091Z-211: HP-1
HP-1	
Temperature Range	-60 °C-325 °C (350 °C)
Dimensions	15 m x 320 µm x 1 µm
In	Back SS Inlet He
Out	Front Detector ECD
Column Outlet Pressure	0 psi
(Initial)	70 °C
Pressure	6.7158 psi
Flow	2.3166 mL/min
Average Velocity	45.026 cm/sec
Holdup Time	0.55524 min
Control Mode	Constant Pressure
Front Detector µECD	
Makeup	N2
Heater	Off
Makeup Flow	Off
Carrier Gas Flow Correction	Constant Makeup Flow
Electrometer	Off
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
Aux EPC	
Aux EPC 3 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi
Aux EPC 4 He	
Pressure	
Setpoint	Off
(Initial)	0 psi
Post Run	0 psi

Aux EPC 5 He
Pressure
Setpoint
(Initial)
Post Run

Off
0 psi
0 psi

Signals

Signal #1: Front Signal

Description

Front Signal

Details

Front Signal (ECD)

Save

Off

Data Rate

50 Hz

Dual Injection Assignment

Front Sample

Zero Signal

Zero @ 0 min

Signal #2: Back Signal

Description

Back Signal

Details

Back Signal (FID)

Save

Off

Data Rate

20 Hz

Dual Injection Assignment

Back Sample

Zero Signal

Zero @ 0 min

Column 1 Inventory Number :

Column 2 Inventory Number :

TUNE PARAMETERS for SN: US63244922

Trace Ion Detection is OFF.

34.610	:	EMISSION	
70.347	:	ENERGY	
28.400	:	REPELLER	
79.718	:	IONFOCUS	
41.500	:	ENTRANCE LENS	
1529.412	:	EMVOLTS	
		1447.059	: Actual EMV
		1.03	: GAIN FACTOR
1825.000	:	AMUGAIN	
130.375	:	AMUOFFSET	
1.000	:	FILAMENT	
0.000	:	DCPOLARITY	
15.059	:	ENTLENSOFFSET	
-598.000	:	MASSGAIN	
-35.000	:	MASSOFFSET	

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

DATA ANALYSIS PARAMETERS

Method Name: C:\GCMS\1\methods\XLDRUGS.M

Percent Report Settings

Sort By: Signal

Output Destination

Screen: No

Printer: Yes

File: No

Integration Events: AutoIntegrate

Generate Report During Run Method: No

Signal Correlation Window: 0.020

Qualitative Report Settings

Peak Location of Unknown: Apex

Library to Search Minimum Quality

C:\Database\TBI_DRUG.L 50

C:\Database\Cayman052218.L 50

C:\Database\NIST05a.L

Integration Events: AutoIntegrate

Report Type: Summary

Output Destination

Screen: No

Printer: Yes

File: No

Generate Report During Run Method: No

Quantitative Report Settings

Report Type: Summary

Output Destination

Screen: Yes
Printer: No
File: No

Generate Report During Run Method: No

METHAMPHETAMINE QUANTITATION

Calibration Last Updated:

Reference Window: 2.00 Minutes
Non-Reference Window: 1.00 Minutes
Correlation Window: 0.10 minutes
Default Multiplier: 1.00
Default Sample Concentration: 0.00

Compound Information

*** Empty Quantitation Database ***

END OF DATA ANALYSIS PARAMETERS

Wed Jun 21 10:18:58 2023

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\GCMS\1\methods\XLDRUGS.M
Tune file	atune.u
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	650.00
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	70	3,125 [N=1]

Timed Events

Time	Type of Event	Parameter
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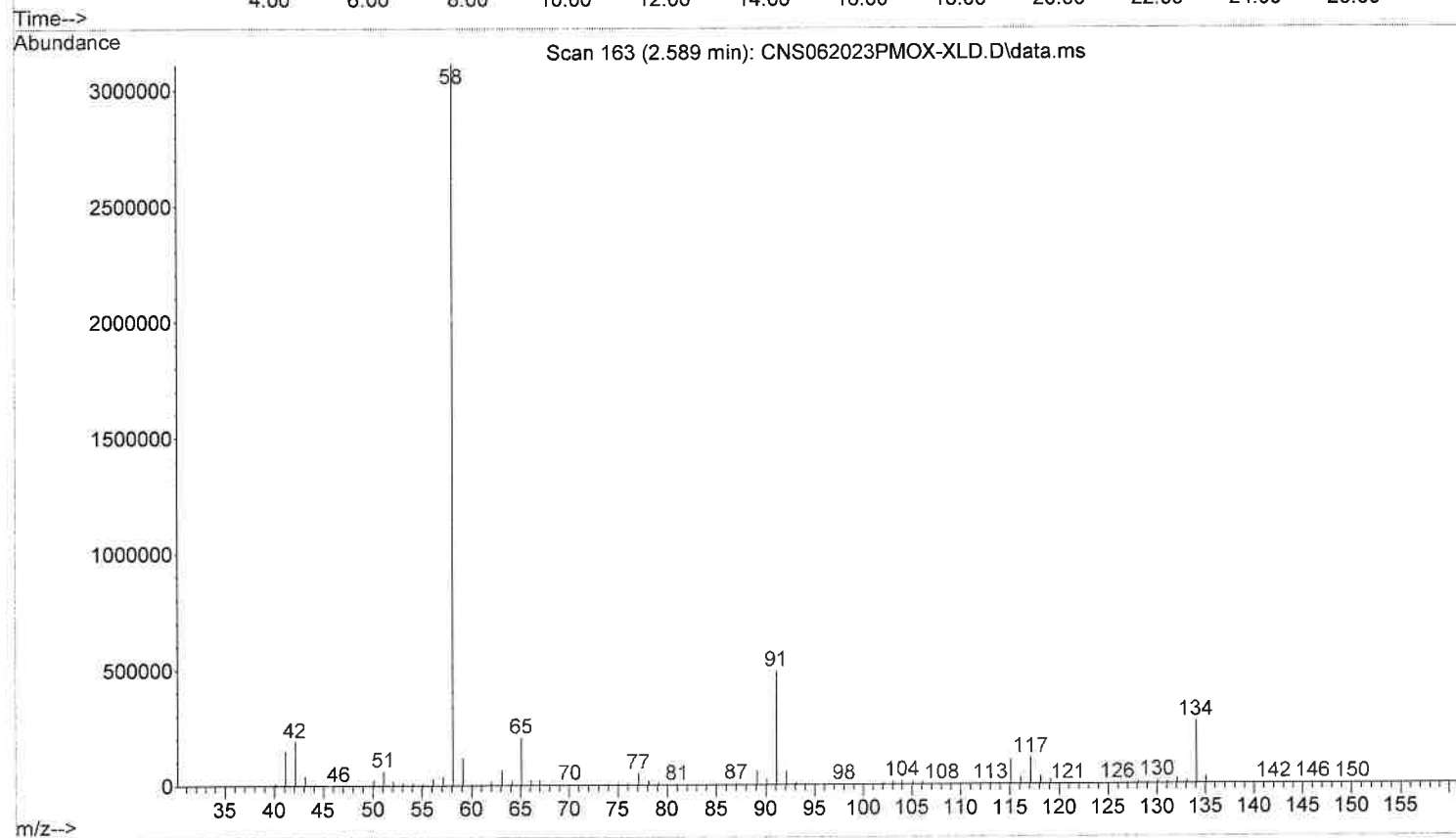
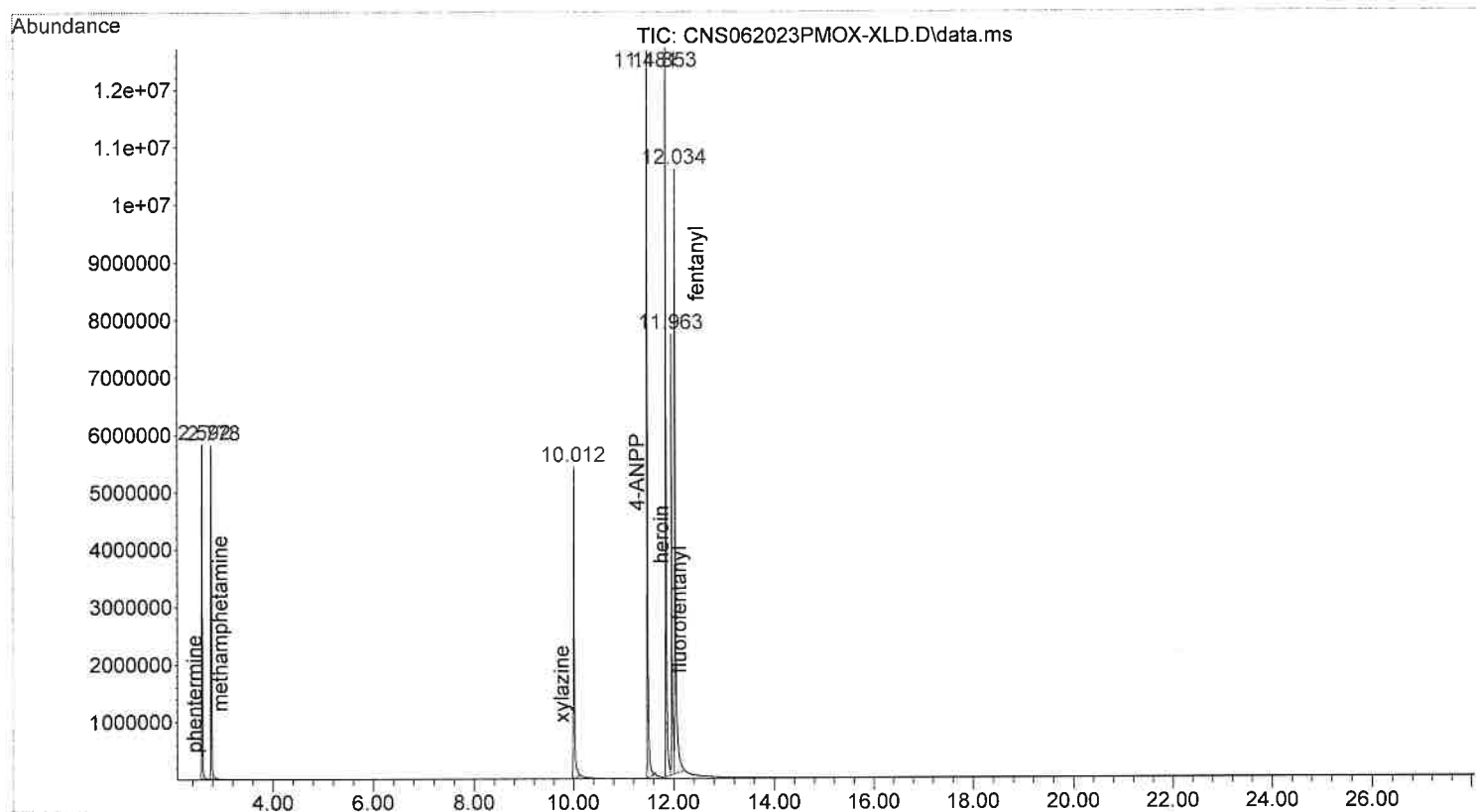
Real-Time Plots

Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	50	550
Extracted Ion	Scan 1-2	40	550

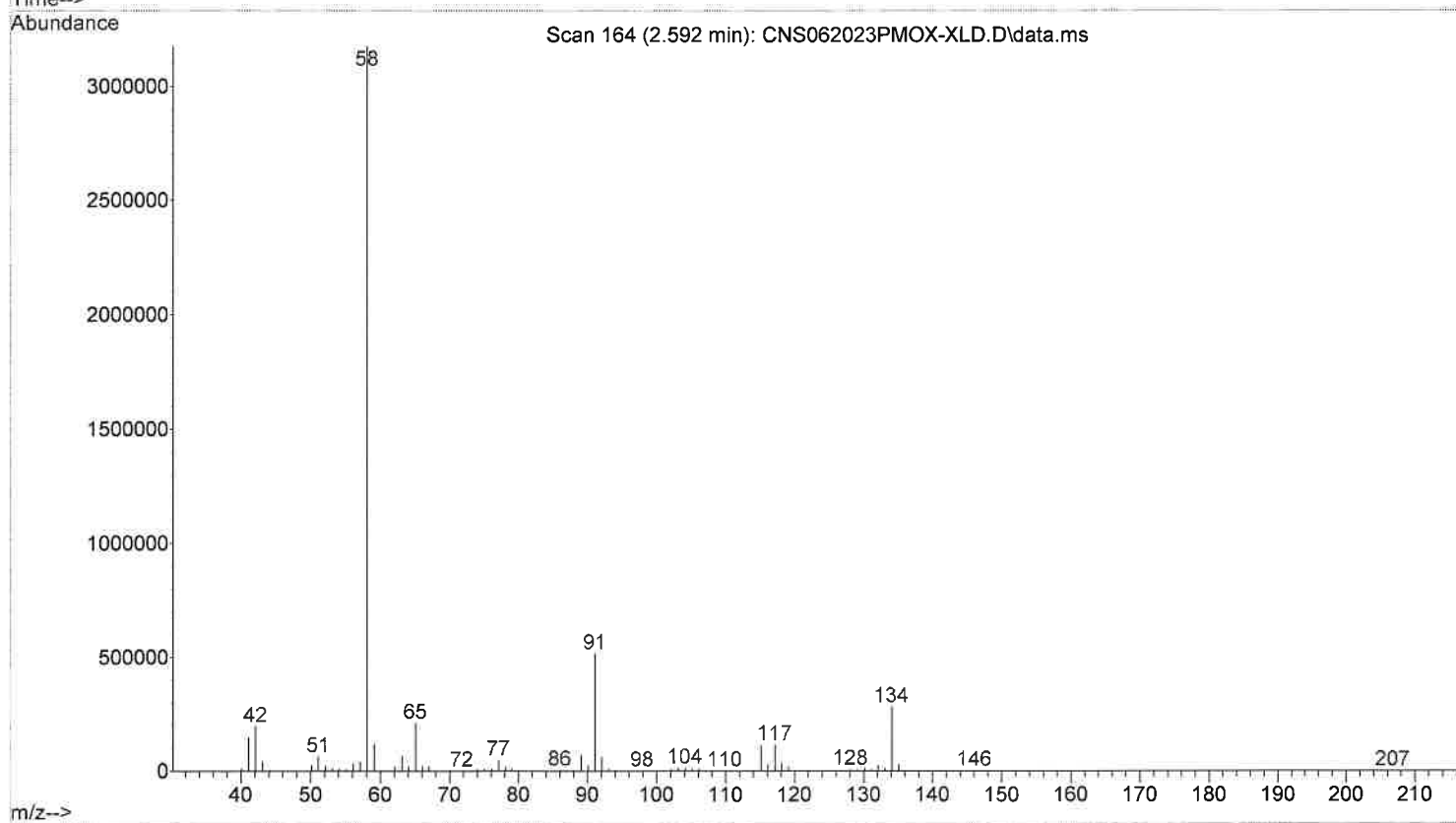
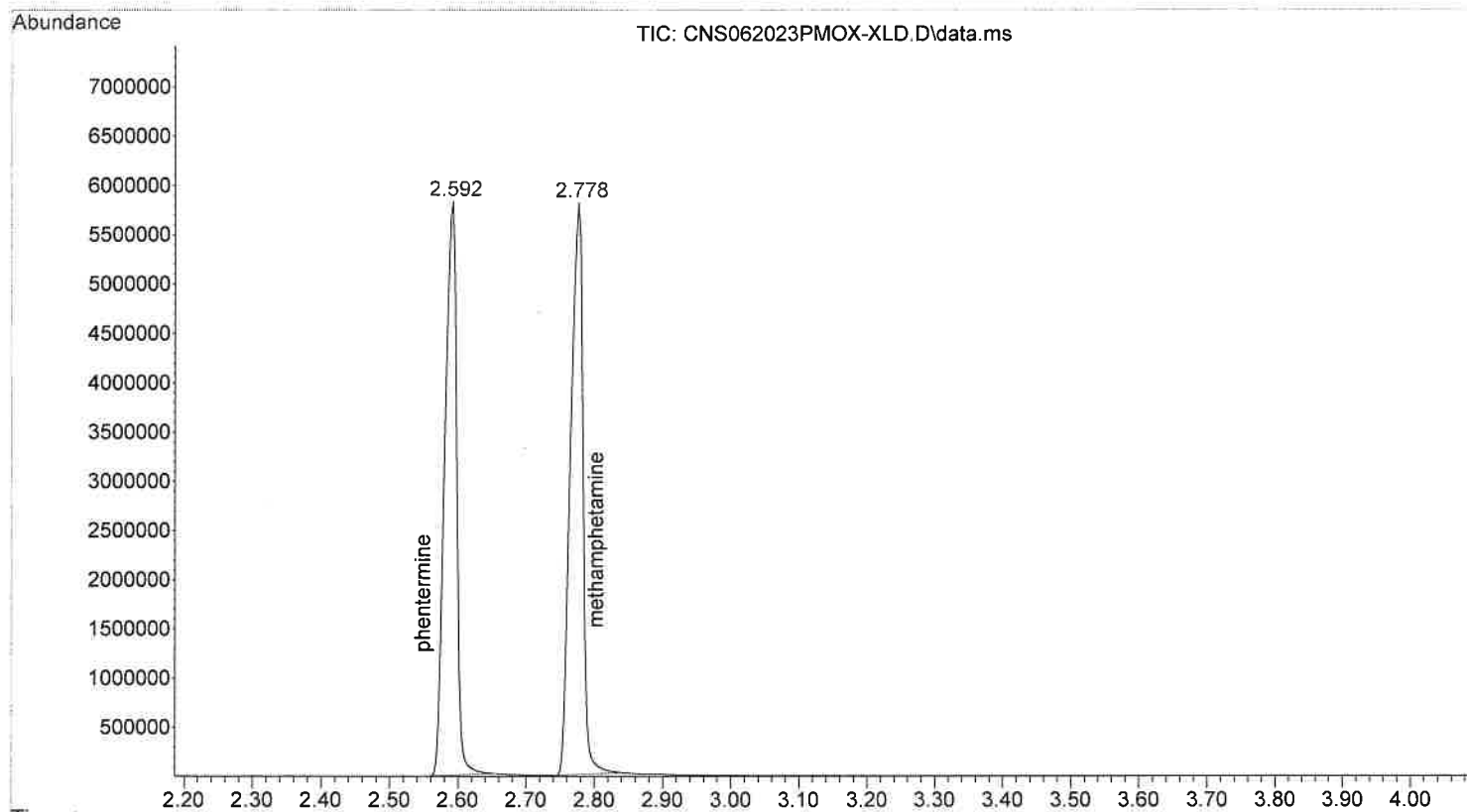
Self-Cleaning Ion Source Parameters

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

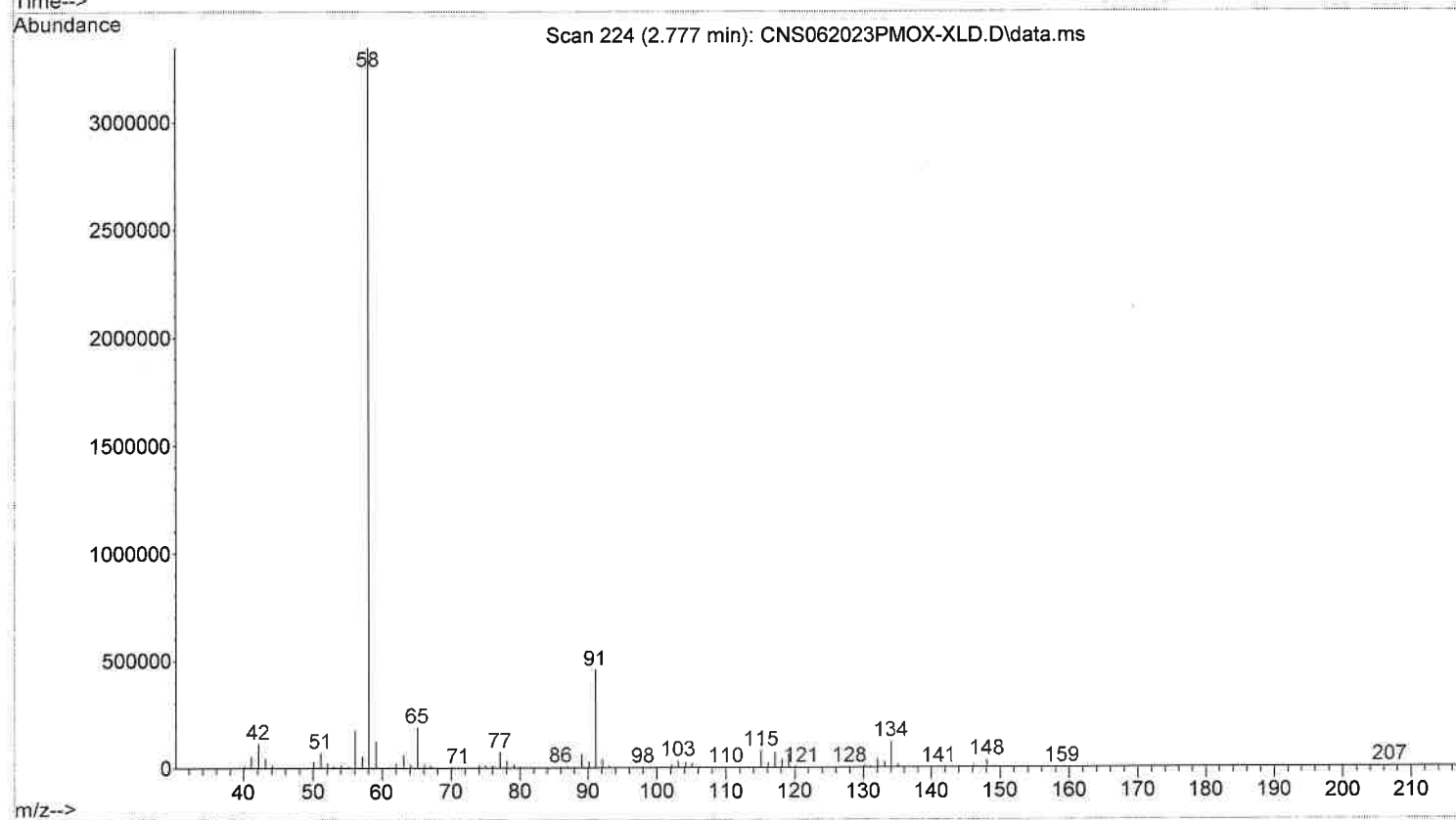
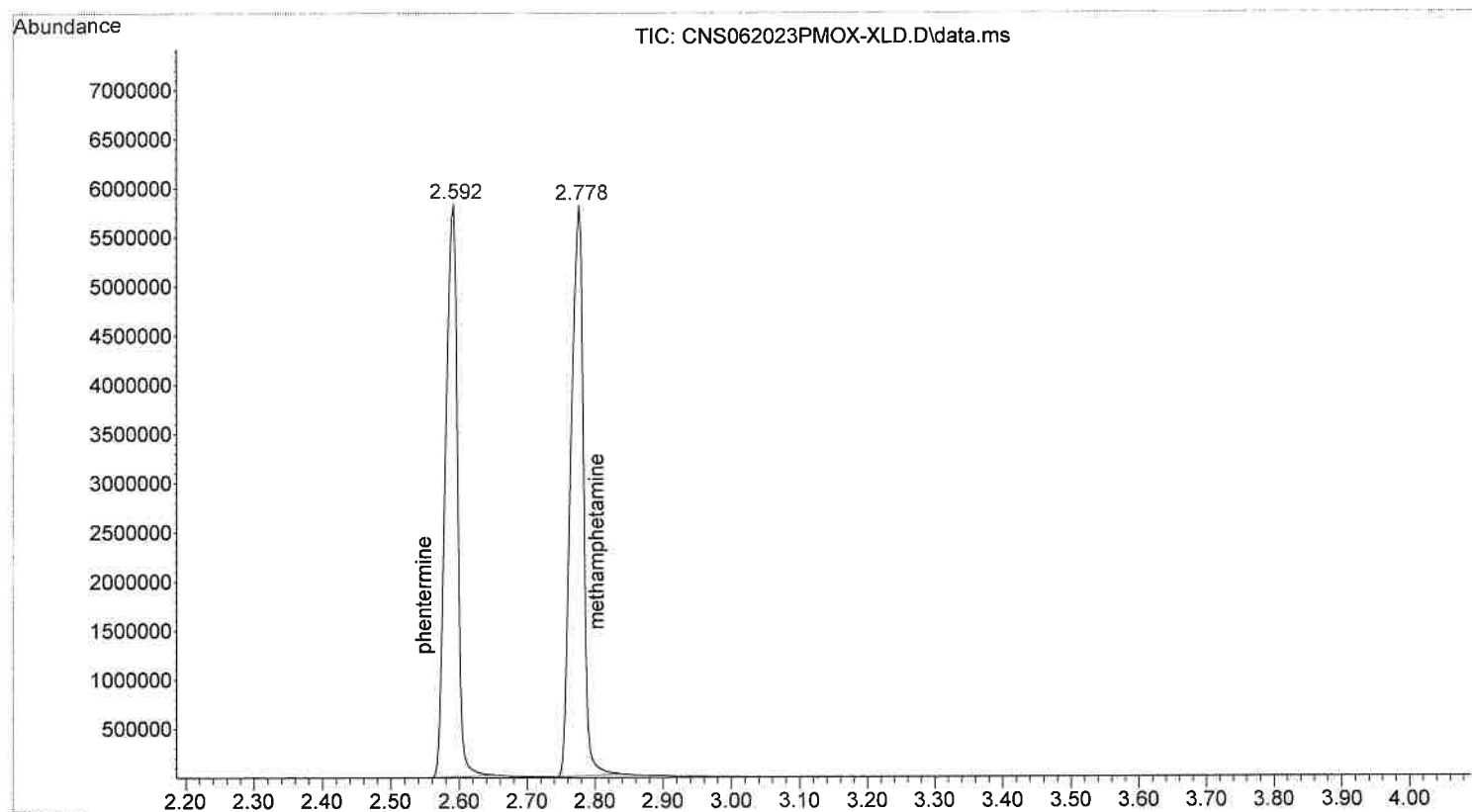
File : Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023PMOX-XLD.D
Operator : KLAB
Acquired : 20 Jun 2023 17:39 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



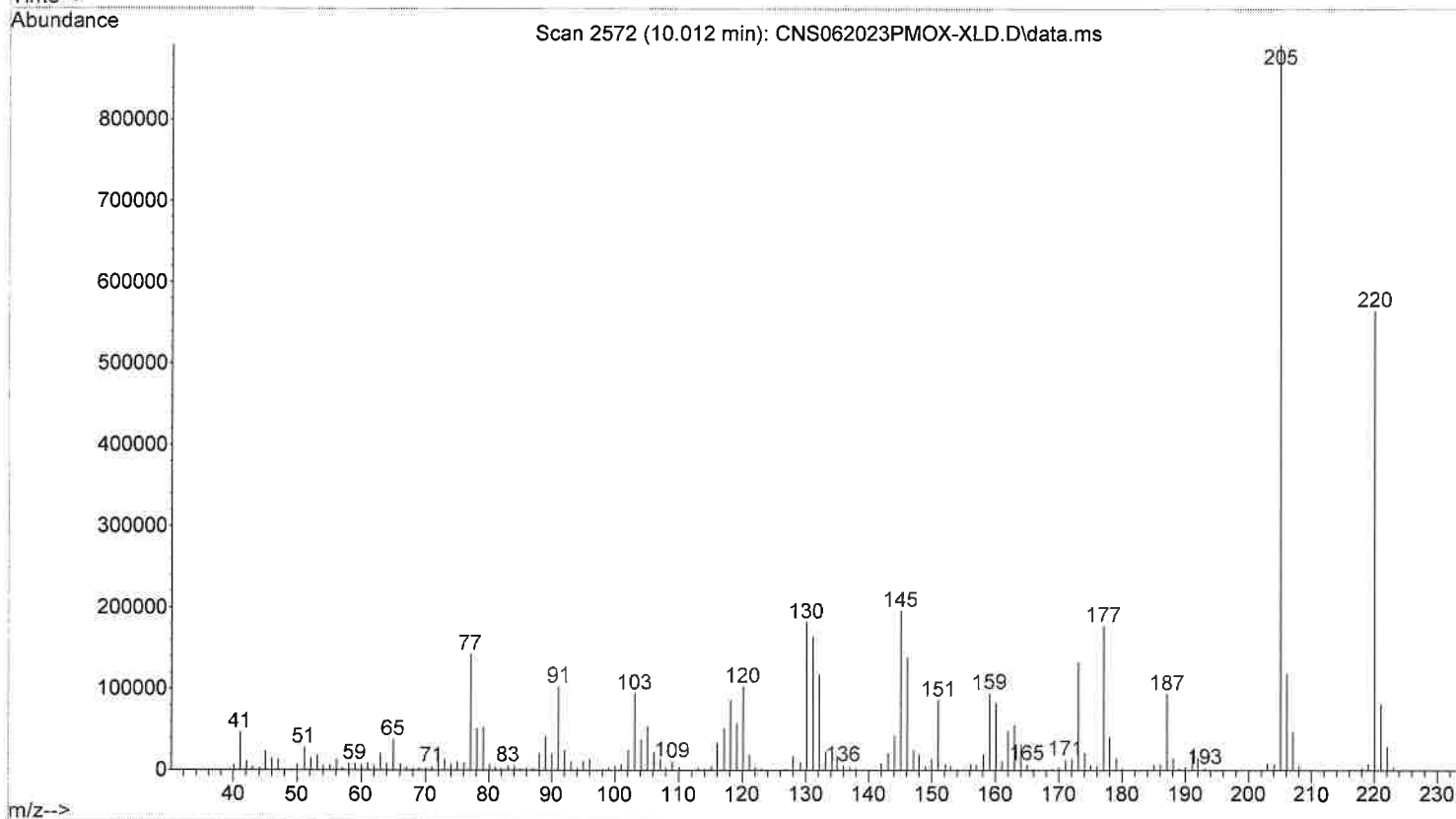
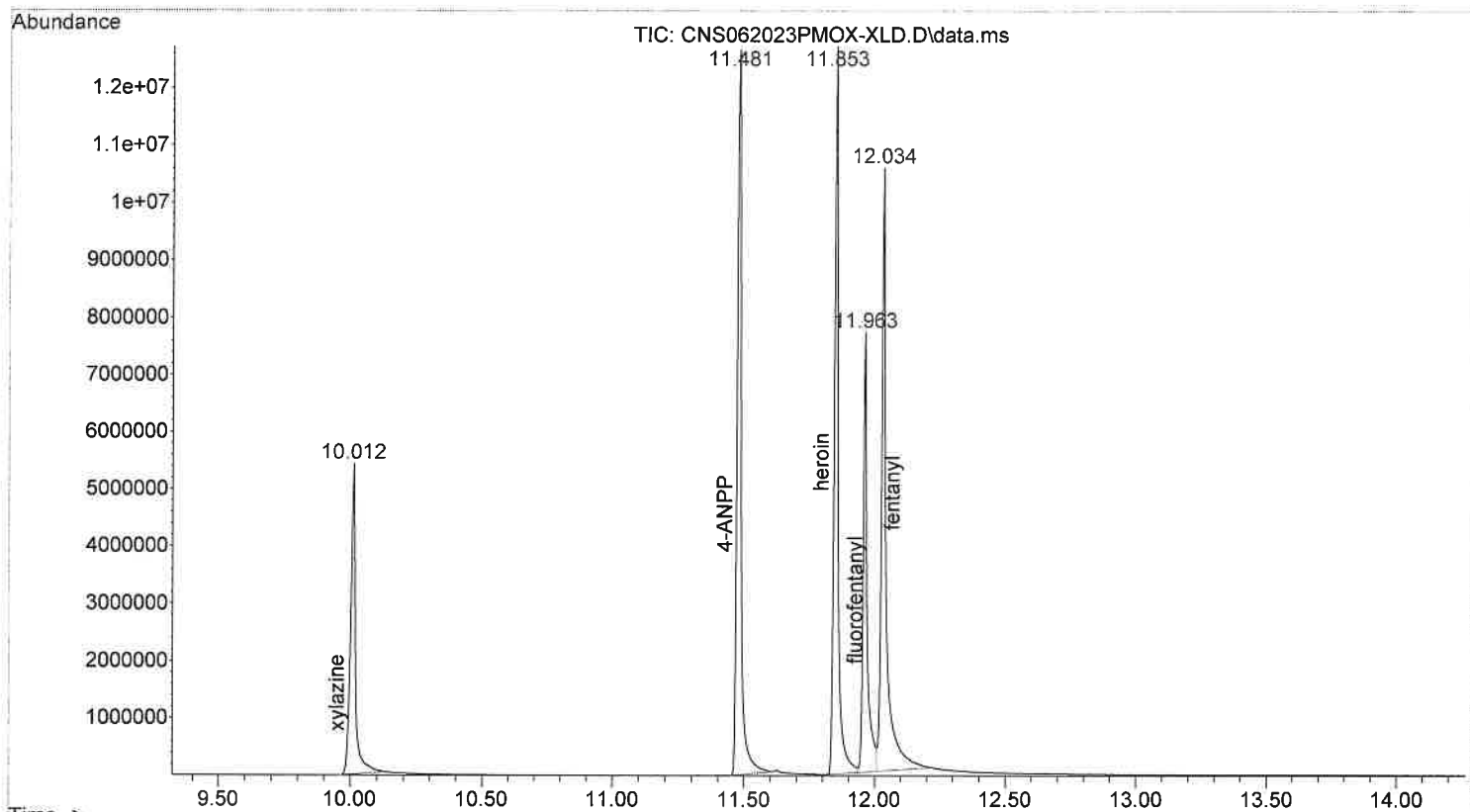
File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023PMOX-XLD.D
Operator : KLAB
Acquired : 20 Jun 2023 17:39 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



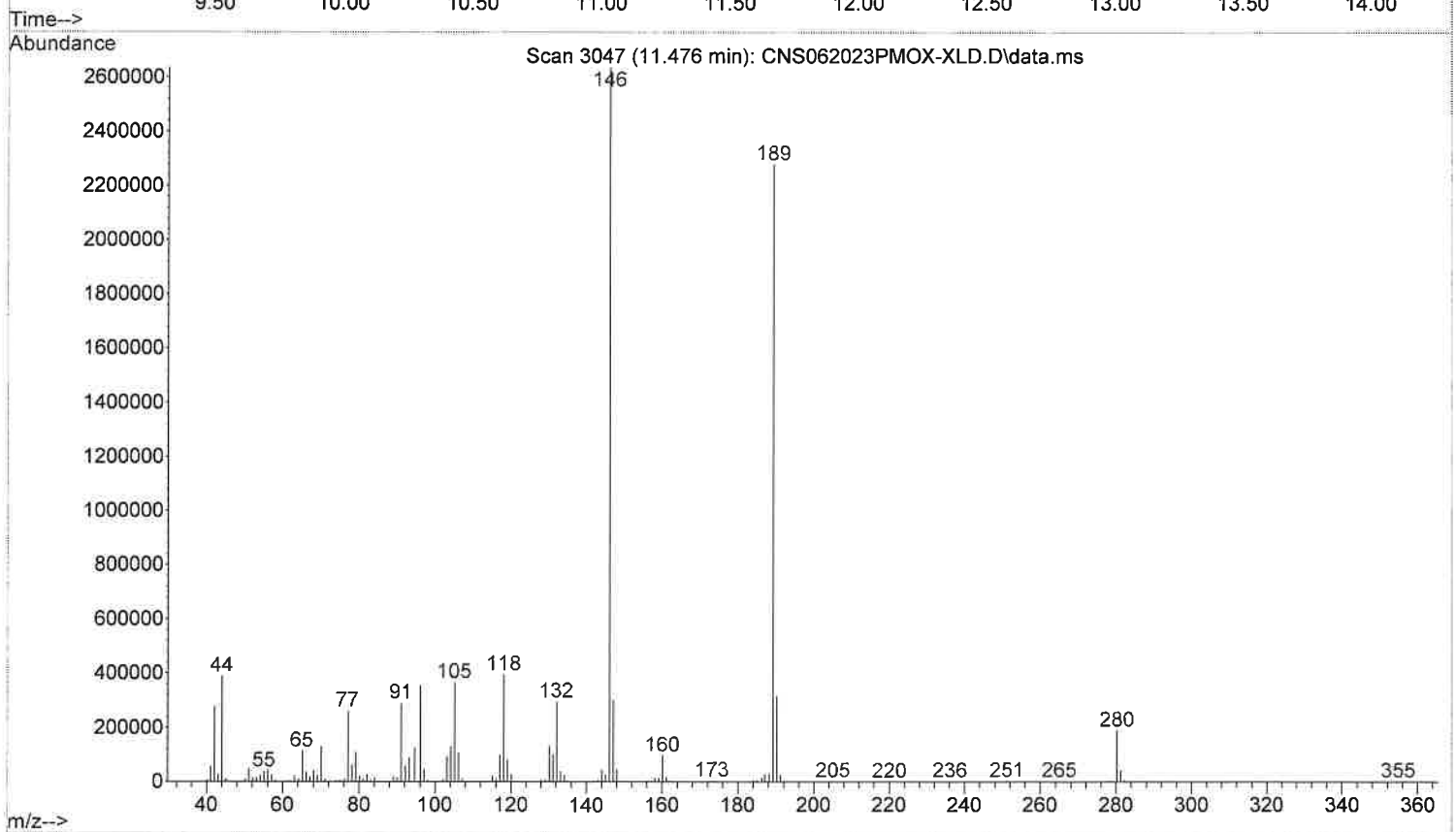
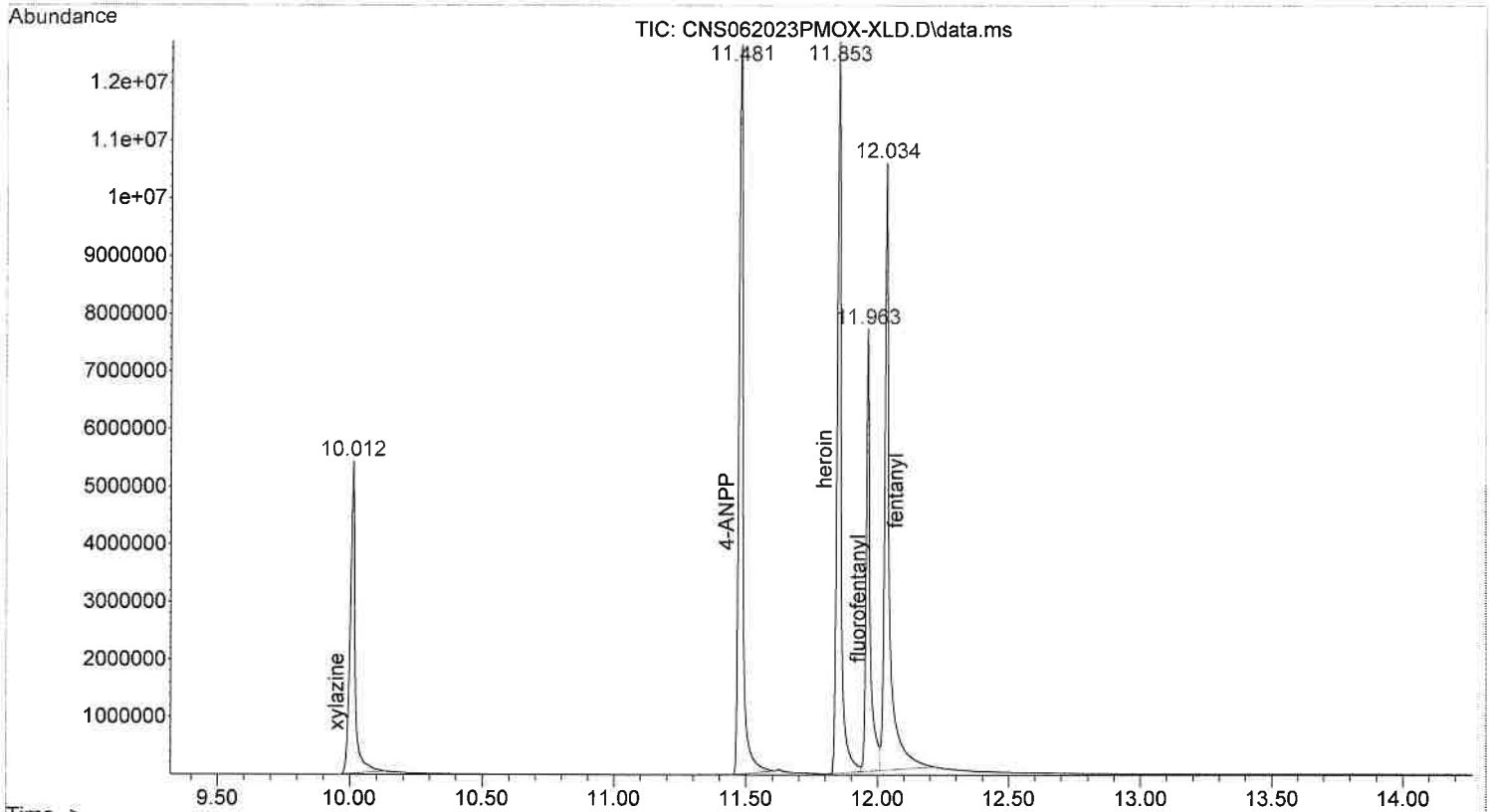
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Operator : KLAB
Acquired : 20 Jun 2023 17:39 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



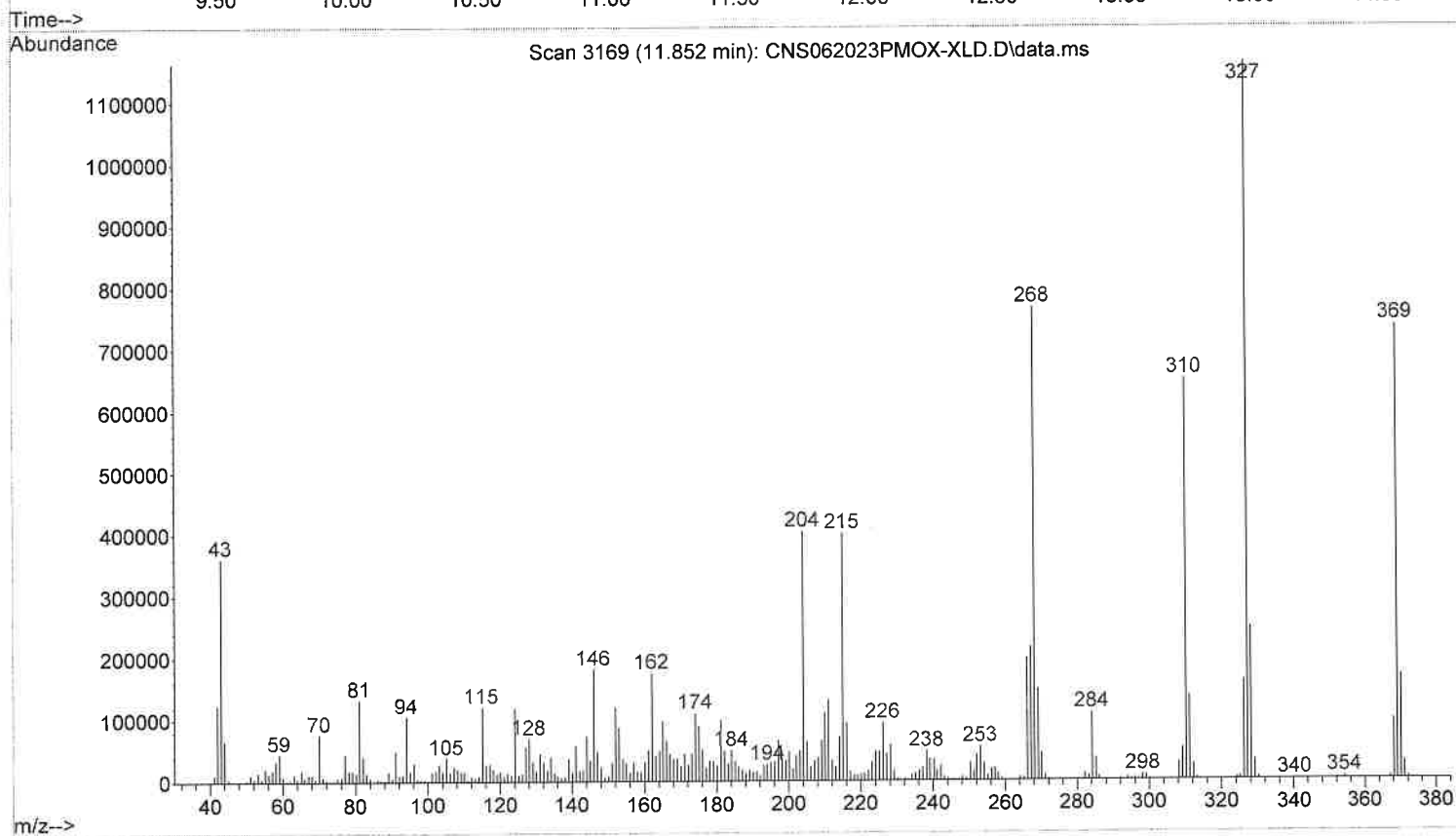
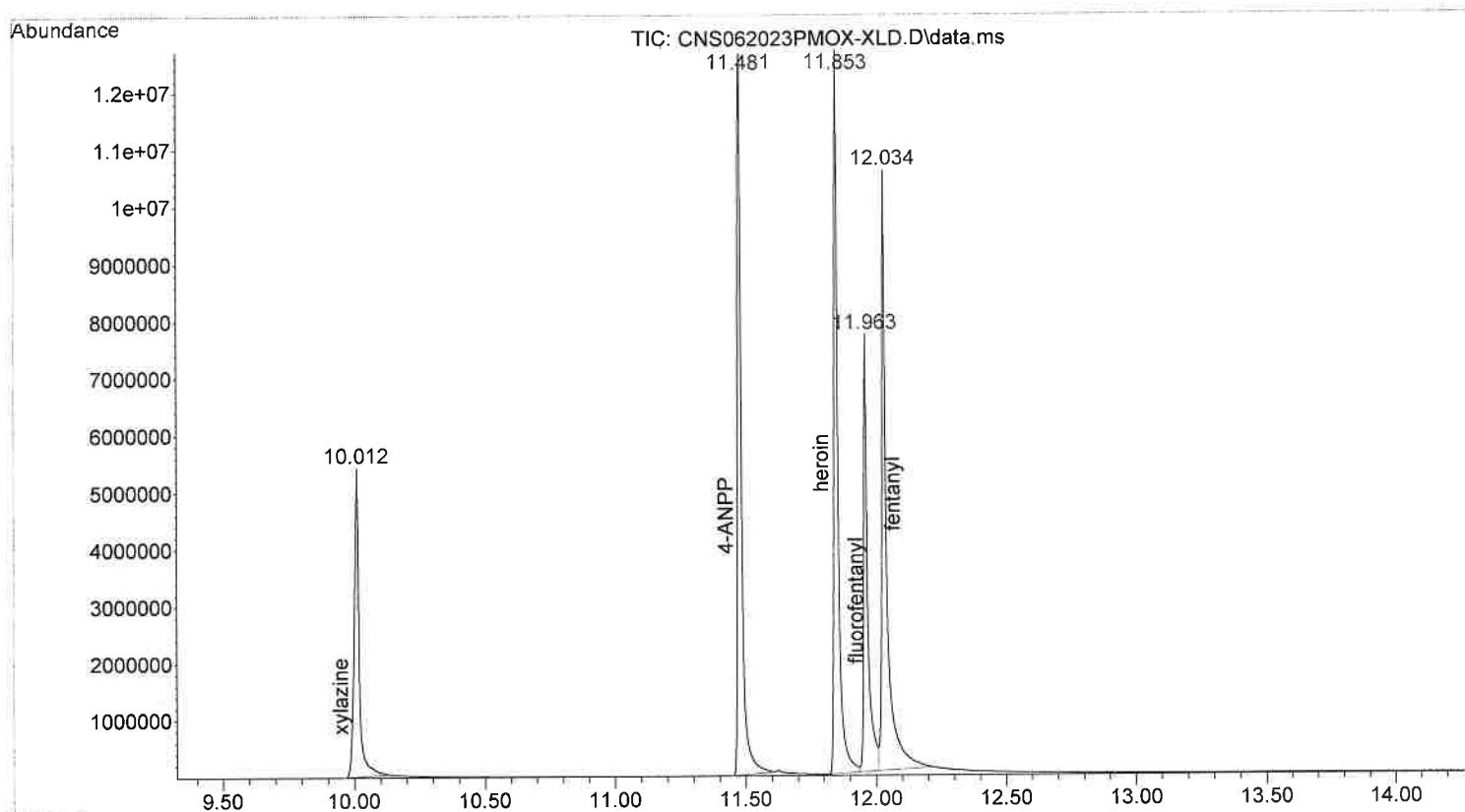
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Operator : KLAB
Acquired : 20 Jun 2023 17:39 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



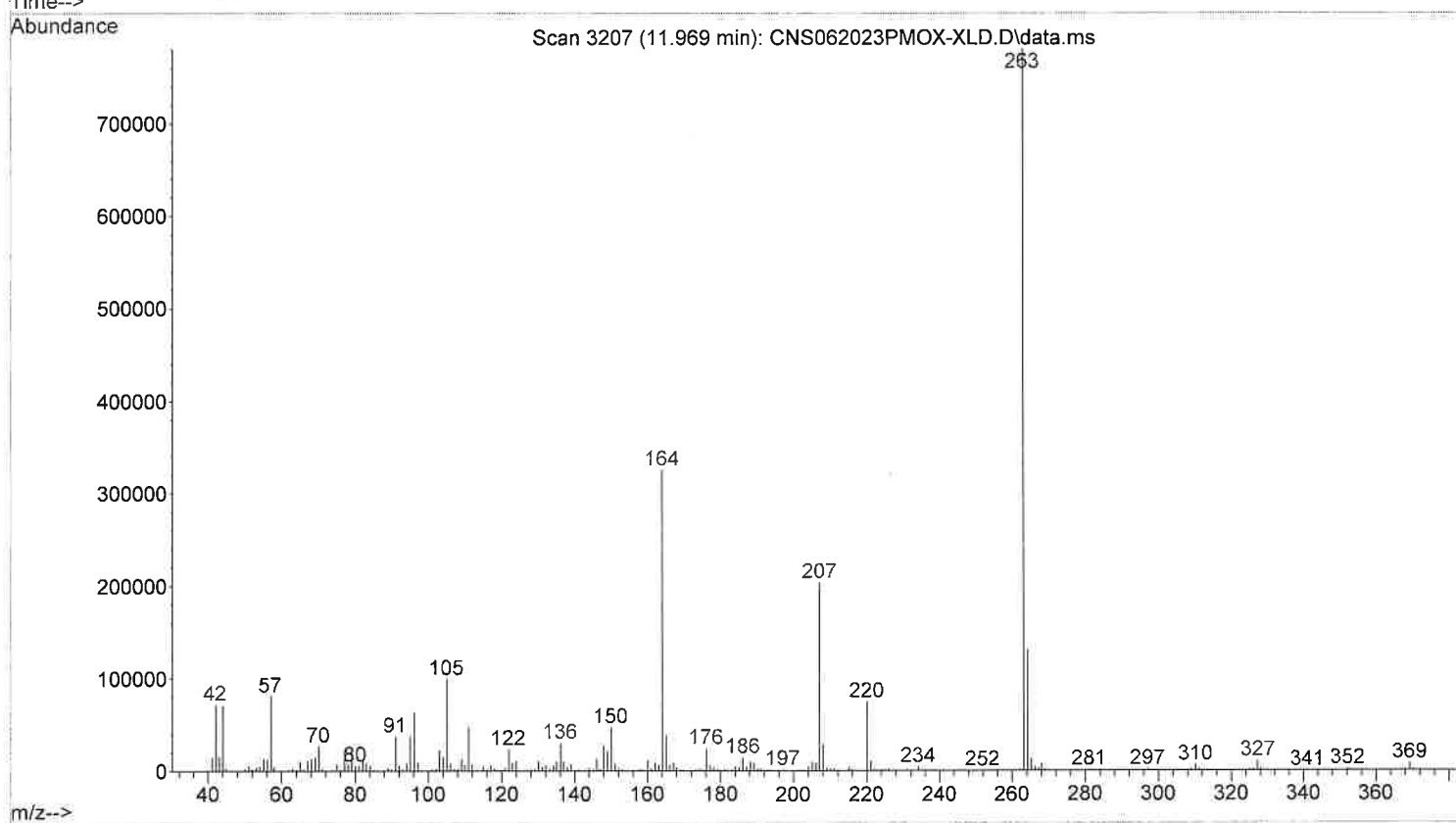
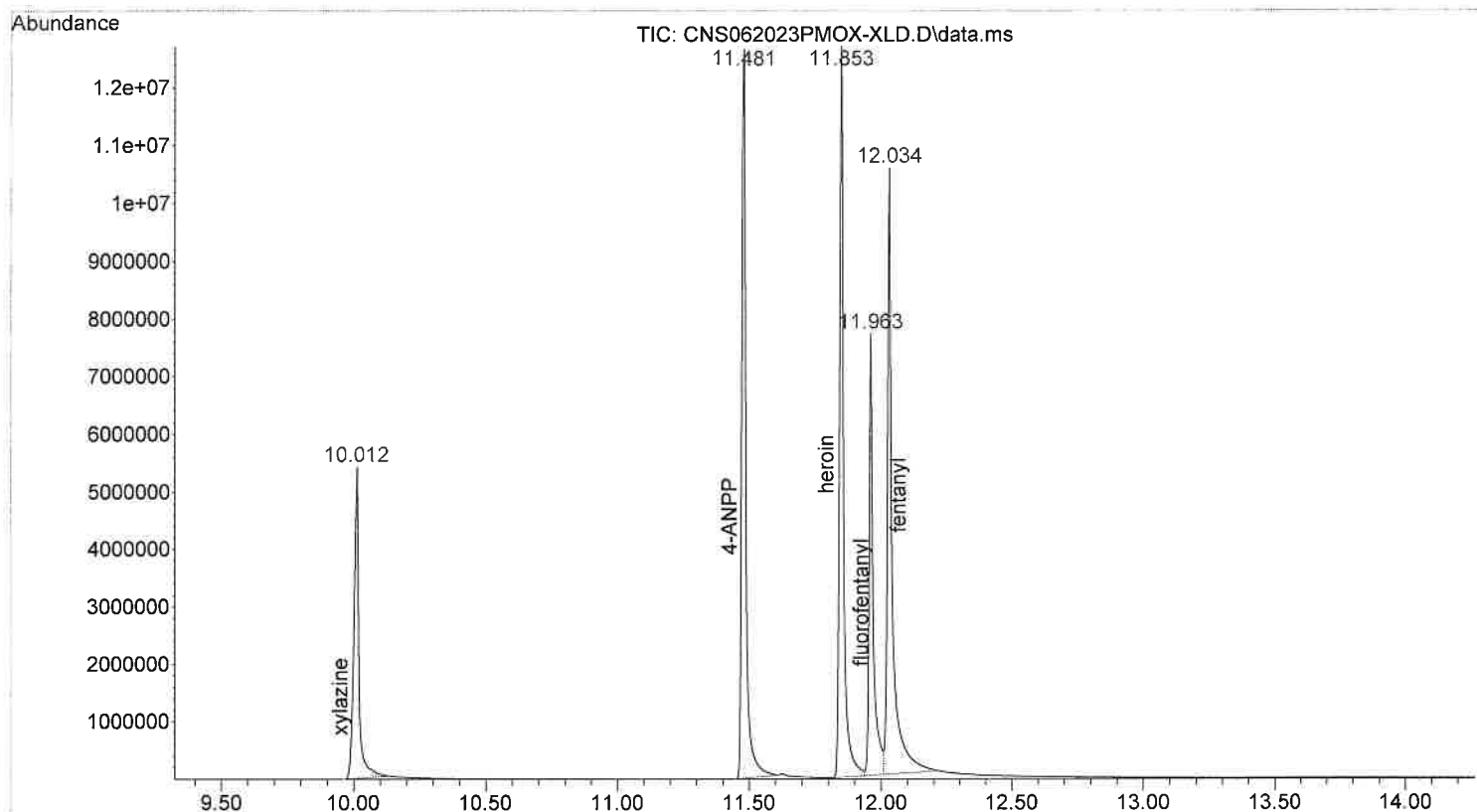
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Operator : KLAB
Acquired : 20 Jun 2023 17:39 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



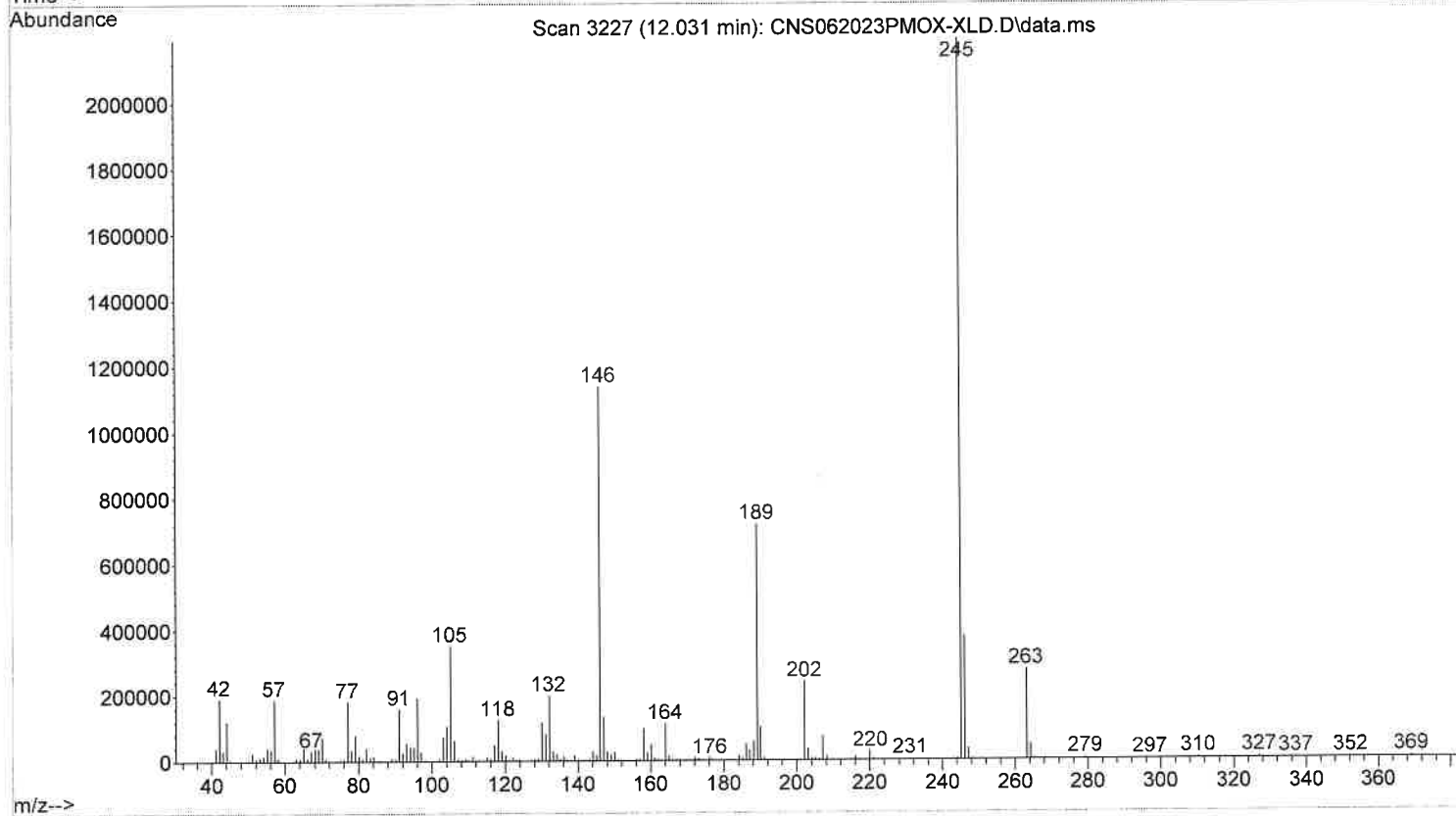
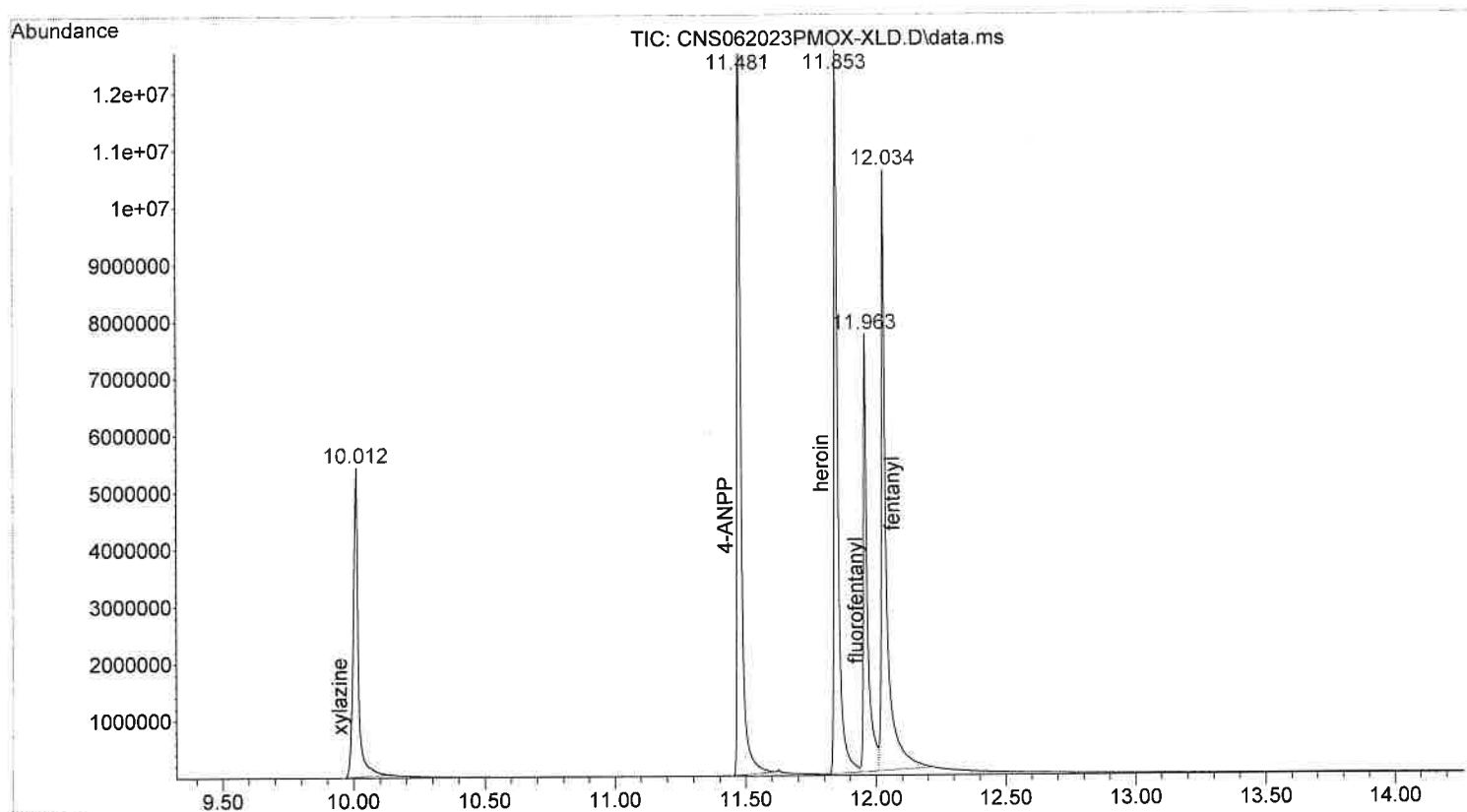
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Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



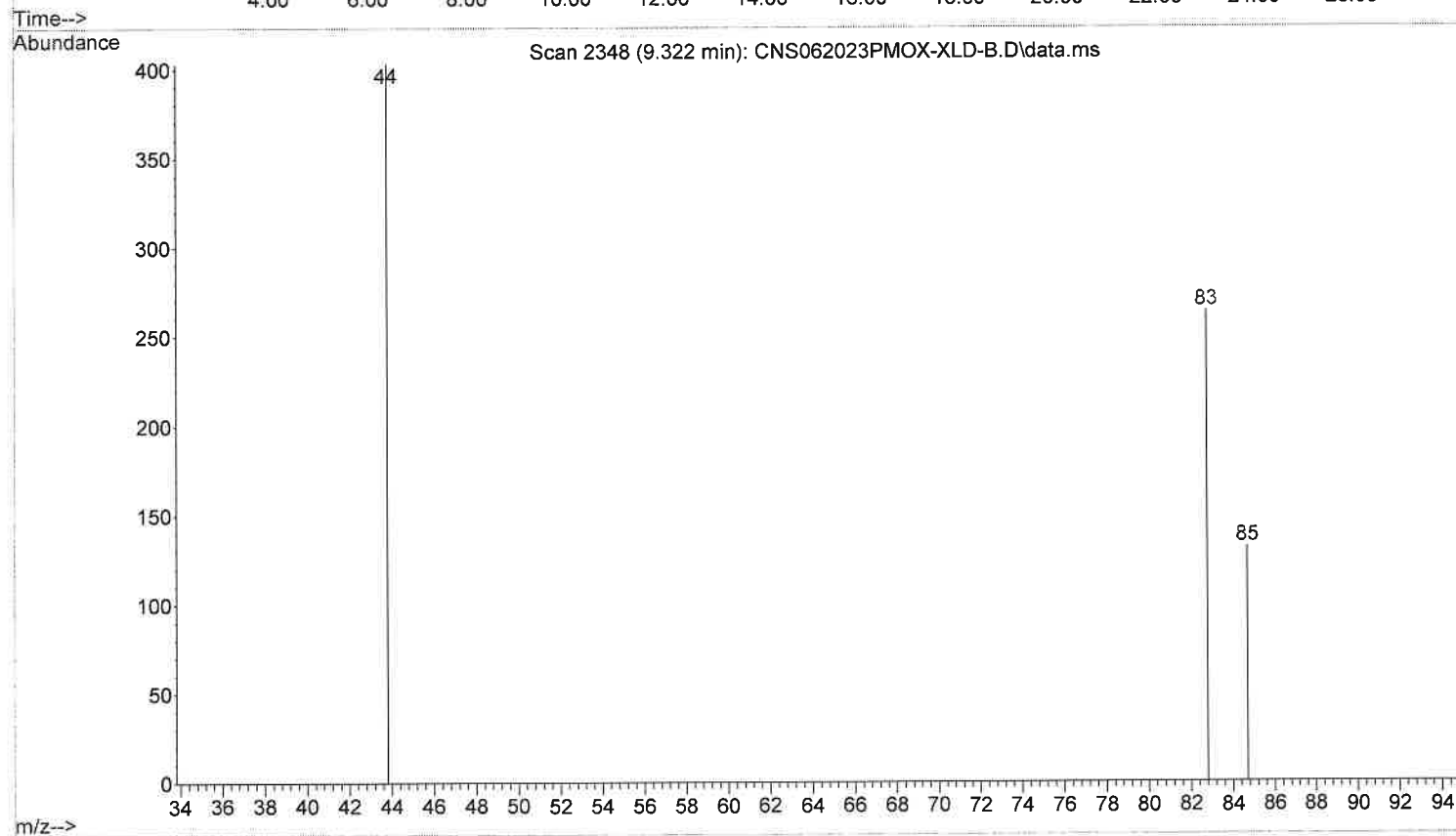
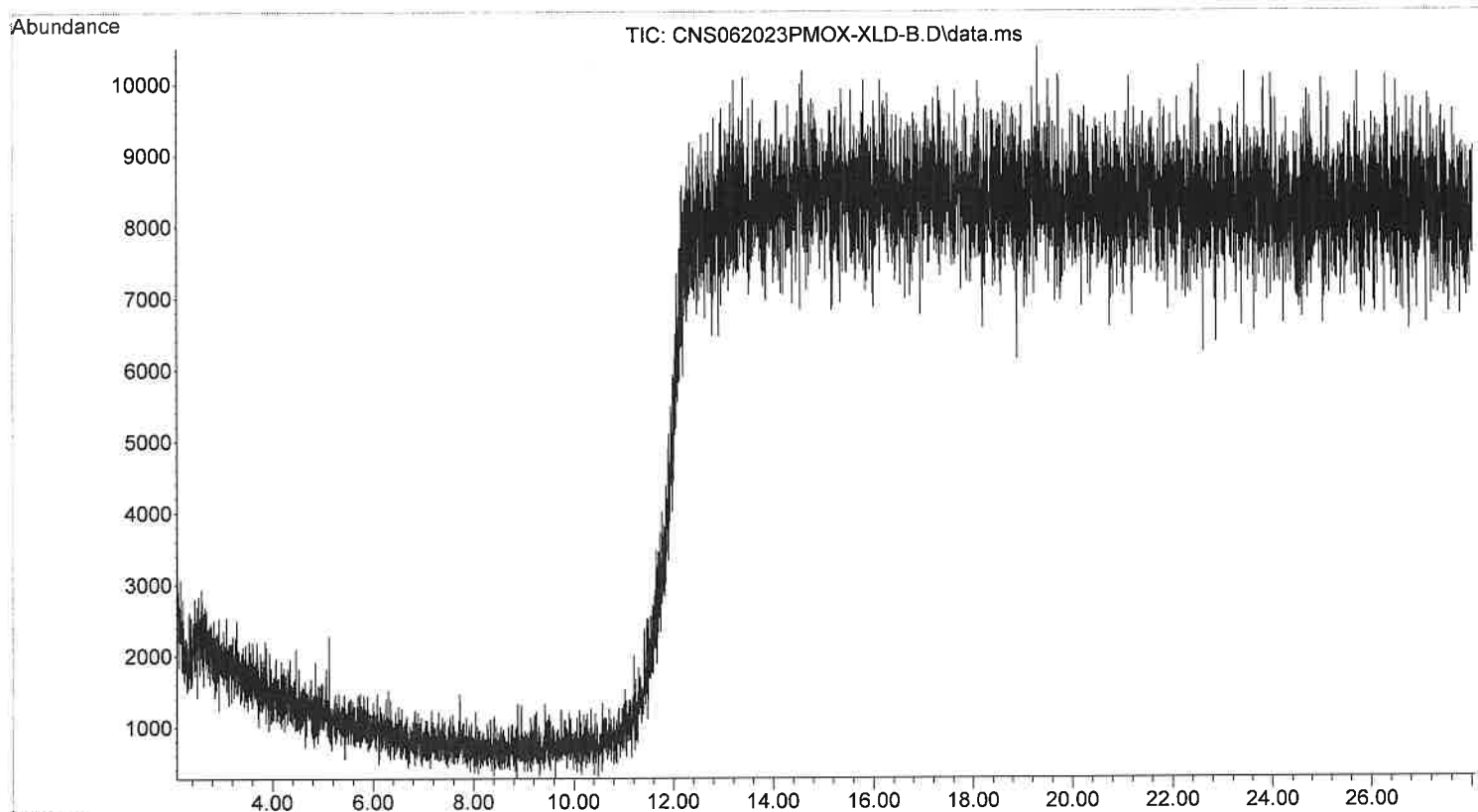
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Operator : KLAB
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Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



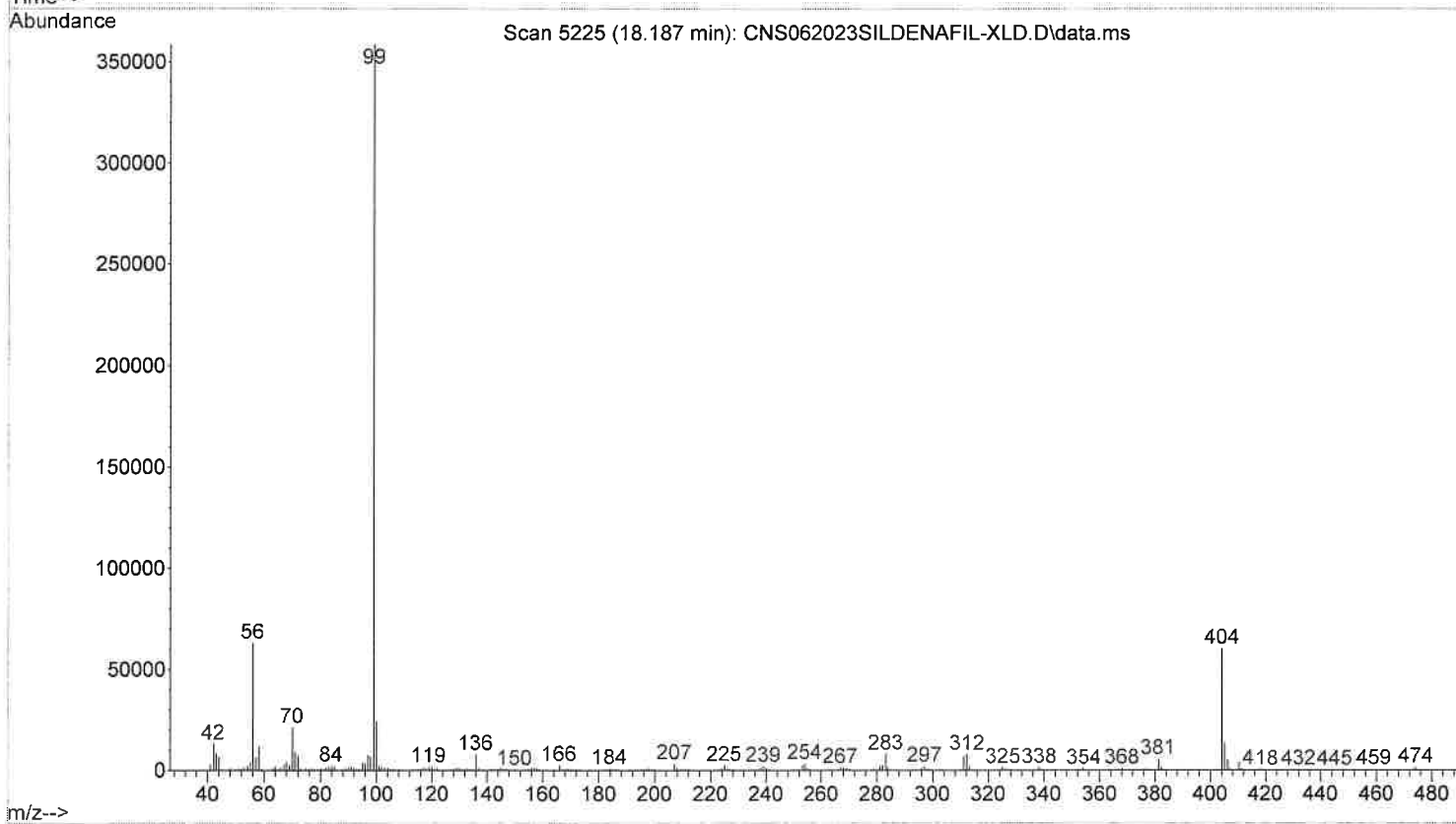
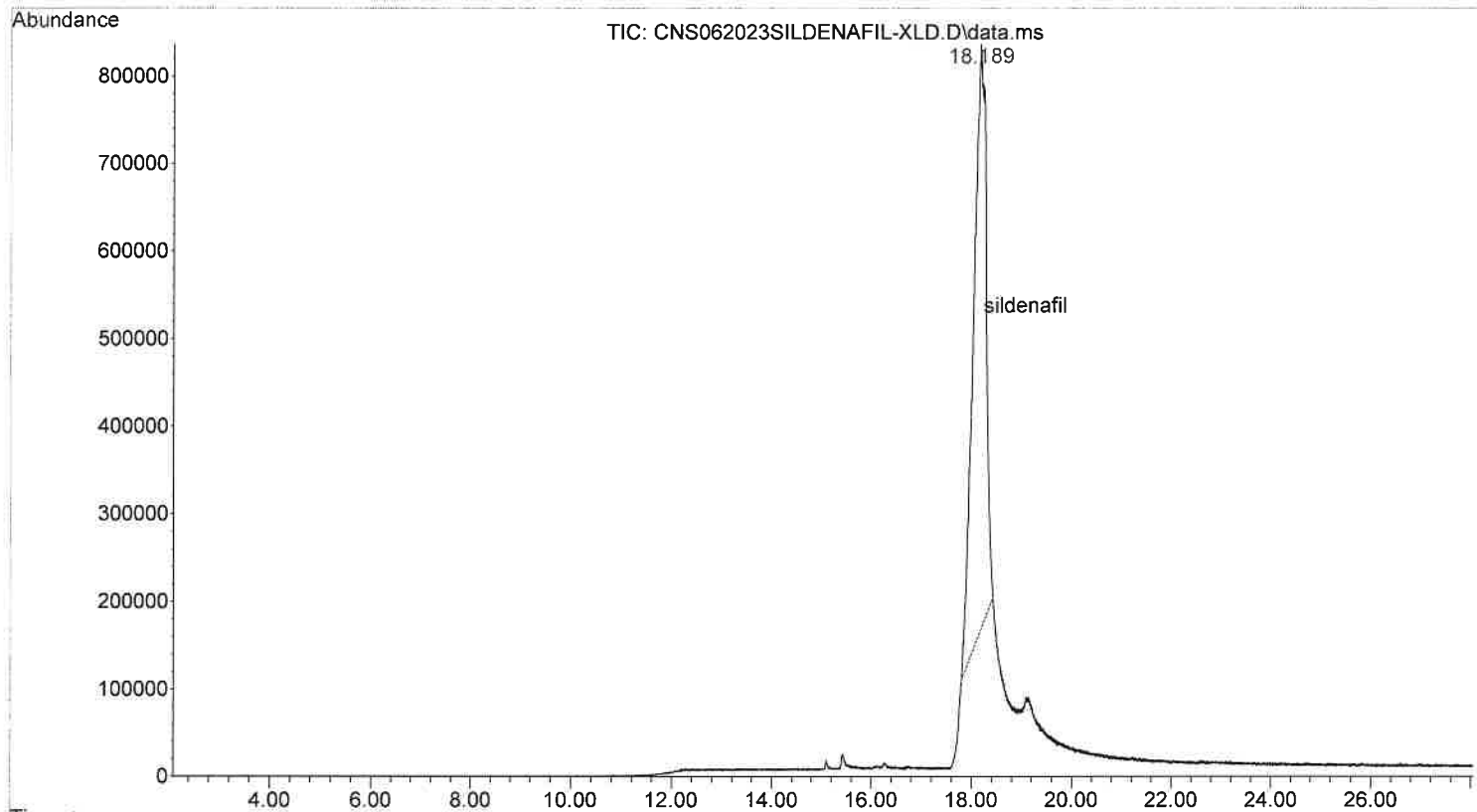
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Instrument : Precious
Sample Name: P-MOX STD
Misc Info : CHCl3
Vial Number: 3



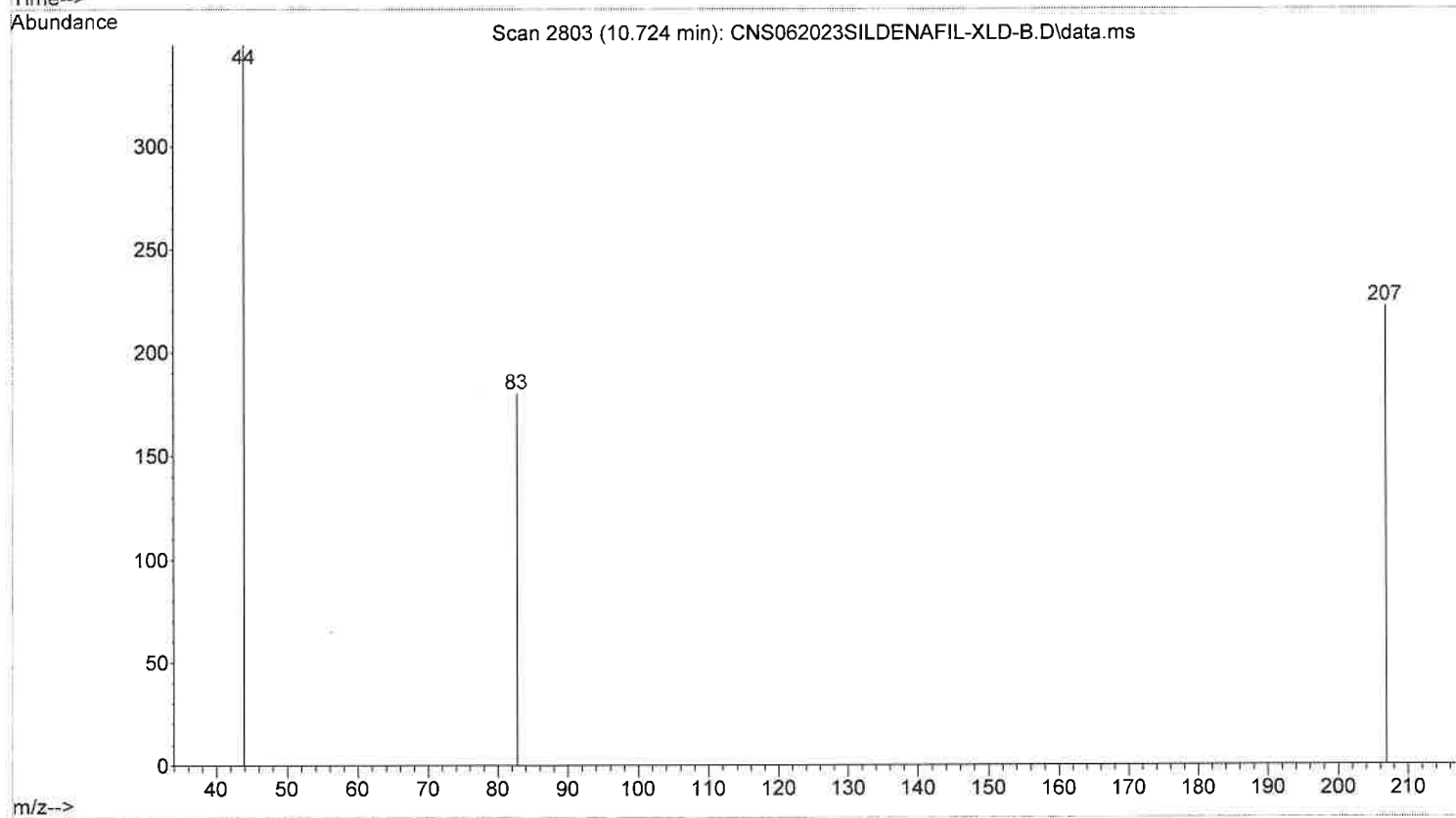
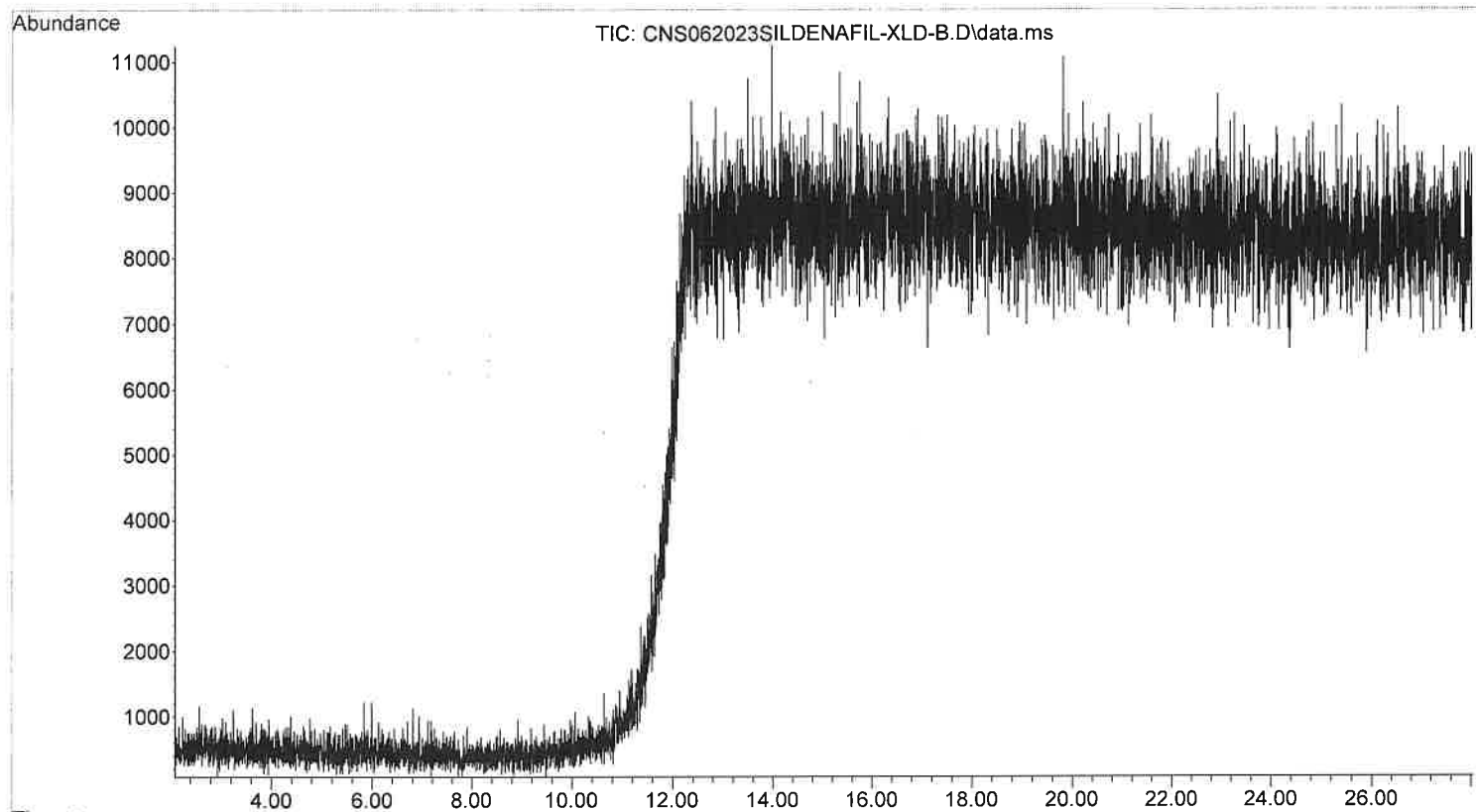
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Operator : KLAB
Acquired : 20 Jun 2023 17:06 using AcqMethod XLDRUGS.M
Instrument : Precious
Sample Name: CHLOROFORM BLANK
Misc Info : P-MOX STD
Vial Number: 2



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023SILDENAFIL-X
... LD.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 20:29 using AcqMethod XLDRUGS.M
Sample Name: SILDENAFIL STD
Misc Info : MeOH



File :Z:\Instruments\GCMS\Precious\2023\JUNE\CNS062023SILDENAFIL-X
... LD-B.D
Operator : KLAB
Instrument : Precious
Acquired : 20 Jun 2023 19:56 using AcqMethod XLDRUGS.M
Sample Name: METHANOL BLANK
Misc Info : SILDENAFIL STD



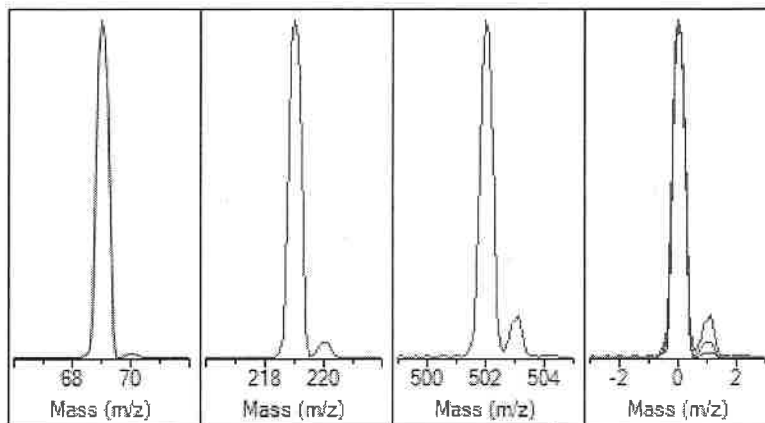
Autotune - 5975

Tune timestamp: 6/10/2023 9:21 AM (UTC-04:00)

Precious

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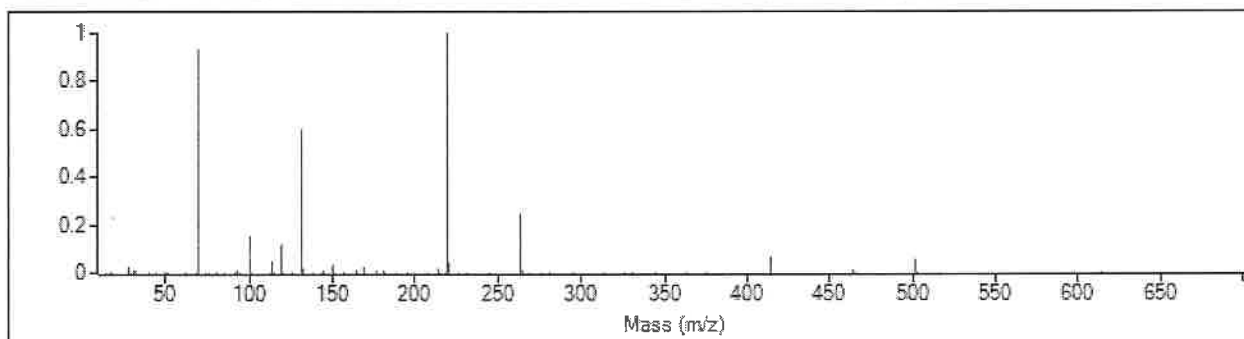


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-594
Electron Energy	70.3	Mass Offset	-34
Filament	1	Amu Gain	1833
Repeller	28.74	Amu Offset	129.69
Ion Focus	80.7	Width219	-0.009
Entrance Lens	35.0	DC Polarity	Pos
Ent Lens Offset	16.31	HED Enable	On
		EM Volts	1553
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	512,208	100.0%	0.51
219.00	544,888	106.4%	0.50
502.00	29,372	5.7%	0.50

Temperatures and Pressures		
MS Source	230 Turbo Speed	100.0
MS Quad	150 Hi Vac	1.28e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	103	219.00	510,336	1,819,015



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	476,096	100.0%	70.00	5,333	1.1%
219.00	219.00	510,336	107.2%	220.00	22,608	4.4%
502.00	502.00	28,008	5.9%	503.00	2,876	10.3%

Air/Water Check: H2O ~0.5% N2 ~2.6% O2 ~0.7% CO2 ~0.1% N2/H2O ~473.6%

Column(1) Flow: 1.14 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 202540.082

Repeller maximum 35 volts using ion 219; Gain Factor 2.0254

Mass Gain Values(Scan Speed): -594(3) -588(2) -577(1) -545(0) -458(FS1) -458(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	129.7	129.7	129.7	129.7	129.7	129.7	129.7
Entrance Lens Offset	16.3	16.3	16.3	16.3	16.3	16.3	16.3

Report Created: 6/10/2023 9:22 AM (UTC-04:00)

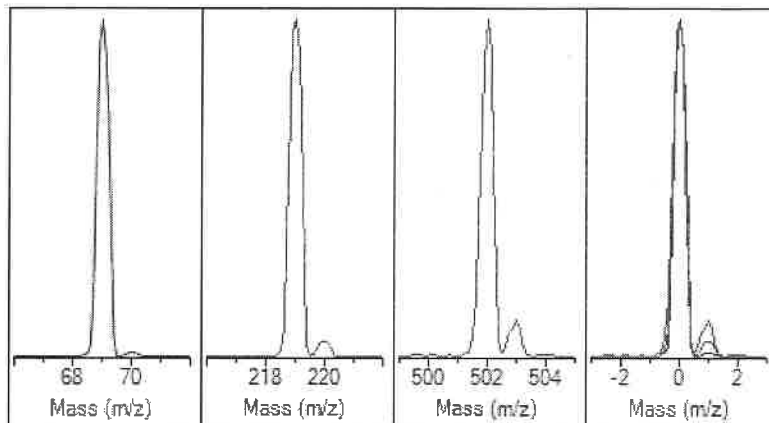
Autotune - 5975

Tune timestamp: 6/12/2023 9:20 AM (UTC-04:00)

Precious

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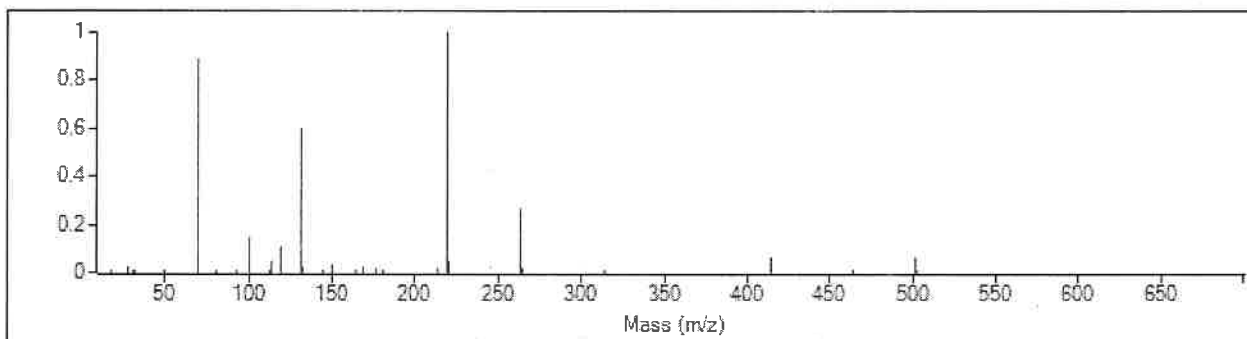


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-598
Electron Energy	70.3	Mass Offset	-35
Filament	1	Amu Gain	1825
Repeller	26.21	Amu Offset	129.94
Ion Focus	79.7	Width219	-0.016
Entrance Lens	41.5	DC Polarity	Pos
Ent Lens Offset	15.06	HED Enable	On
		EM Volts	1576
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	476,685	100.0%	0.50
219.00	534,573	112.1%	0.51
502.00	31,249	6.6%	0.48

Temperatures and Pressures		
MS Source	230	Turbo Speed 100.0
MS Quad	150	Hi Vac 1.42e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	103	219.00	494,208	1,735,419



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	436,608	100.0%	70.00	4,633	1.1%
219.00	219.00	494,208	113.2%	220.00	21,520	4.4%
502.00	502.00	28,592	6.5%	503.00	2,626	9.2%

Air/Water Check: H2O ~0.8% N2 ~2.8% O2 ~0.8% CO2 ~0.1% N2/H2O ~337.0%

Column(1) Flow: 1.44 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 217076.763

Repeller maximum 35 volts using ion 219; Gain Factor 2.1708

Mass Gain Values(Scan Speed): -592(3) -587(2) -576(1) -539(0) -469(FS1) -460(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	129.9	129.9	129.9	129.9	129.9	129.9	129.9
Entrance Lens Offset	15.1	15.1	15.1	15.1	15.1	15.1	15.1

Autotune - 5975

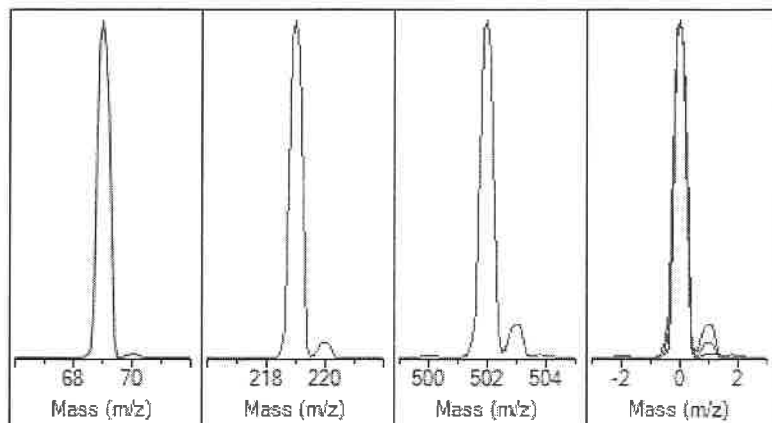
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Tune timestamp: 6/20/2023 10:13 AM (UTC-04:00)

Precious

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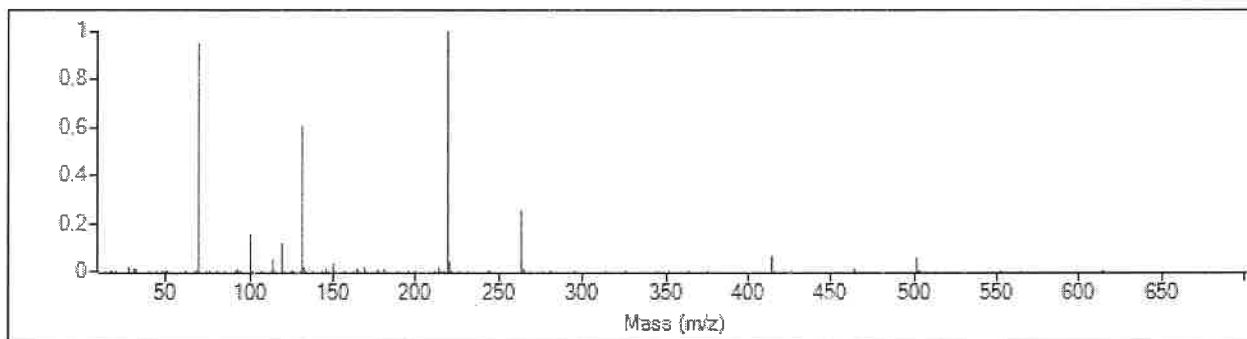


Ion Polarity	Pos	PFTBA	Open
Emission	34.6	Mass Gain	-598
Electron Energy	70.3	Mass Offset	-35
Filament	1	Amu Gain	1825
Repeller	28.40	Amu Offset	130.38
Ion Focus	79.7	Width219	-0.015
Entrance Lens	41.5	DC Polarity	Pos
Ent Lens Offset	15.06	HED Enable	On
		EM Volts	1529
		Scan Speed	3
JetClean Flow Actual/[Setpoint]	0.00 [0.00]	Averages	3

Actual m/z	Abund	Rel Abund	Pw50
69.00	437,758	100.0%	0.51
219.00	464,788	106.2%	0.50
502.00	27,228	6.2%	0.51

Temperatures and Pressures		
MS Source	230	Turbo Speed 100.0
MS Quad	150	Hi Vac 1.28e-05

Low	High	Step	Speed	Threshold	Peaks	Base	Abundance	Total Ion
10.00	701.00	0.10	3	100	98	219.00	430,208	1,549,188



Target m/z	Actual m/z	Abund	Rel Abund	Iso m/z	Iso Abund	Iso Ratio
69.00	69.00	408,000	100.0%	70.00	4,054	1.0%
219.00	219.00	430,208	105.4%	220.00	19,232	4.5%
502.00	502.00	25,576	6.3%	503.00	2,217	8.7%

Air/Water Check: H2O ~0.7% N2 ~2.3% O2 ~0.6% CO2 ~0.1% N2/H2O ~351.3%

Column(1) Flow: 1.14 Column(2): 0.00 ml/min Interface Temp: 280

Ramp Criteria:

Ion Focus maximum 90 volts using ion 502; Electron Multiplier Gain 169917.275

Repeller maximum 35 volts using ion 219; Gain Factor 1.6992

Mass Gain Values(Scan Speed): -593(3) -587(2) -575(1) -545(0) -484(FS1) -484(FS2)

TARGET MASS:	50	69	131	219	414	502	1050
Amu Offset	130.4	130.4	130.4	130.4	130.4	130.4	130.4
Entrance Lens Offset	15.1	15.1	15.1	15.1	15.1	15.1	15.1