

TBI-FORENSIC SERVICES DIVISION PERFORMANCE VERIFICATION FORM

Instrument/Method to Verify:

Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR "Curie" - 15 m column and Polydrug Method

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 Lela Jackson Title SA FS II Initials LJ

Completed: 
Lela Jackson (Jun 15, 2023 08:26 CDT)

Name _____ Title _____ Initials _____

Completed:

Name _____ Title _____ Initials _____

Completed:

Verification of final review:

Unit Supervisor: Rebecca Hernandez

Section Manager: Melann Everett

Unit Supervisor: Brett Trotter

Section Manager:

Unit Supervisor:

Section Manager:

Regional Administrator: 
Jennifer Hall (Jun 20, 2023 10:47 CDT)

Regional Administrator:

Regional Administrator:

Quality Assurance Manager: 
Chad Johnson (Jun 15, 2023 08:44 CDT)

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

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 / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

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Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

I. Introduction

This performance check of the instrument “Curie” is designed to demonstrate the continued effectiveness of the GC-FTIR in the analysis of legally significant substances on ASAP analytical’s IRD after changing the column from an HP-5 column to a HP-1 column. This check will also validate the use of methods previously created by the forensic chemistry unit on “YODA”.

Analysis on the GC-FTIR can be used as a category A test to determine structural information of unknown compounds and distinguish between positional isomers that may be difficult to determine by GCMS analysis alone. The spectra obtained by the IRD3 will be compared to existing TBI GC-FTIR libraries that have been built using Agilent/ Thermo Scientific and ASAP Analytical IRD3 GC-FTIR instrumentation under similar operating conditions using a similar type of column with previously validated methods.

This performance check will compare and validate the 15 meter HP-1 column with 0.32 ID and 1.0um film thickness that is already being used in the forensic chemistry unit on the instrument “YODA” for use on the instrument “Curie”. The validation of “Curie” was achieved by running a series of standards using existing validated Agilent GC-FTIR methods as well as a “POLYDRUG” method using the “IRD3 EXT” methodology. A validation of this IRD3 EXT method has previously been performed and approved on existing ASAP Analytical IRD3 instruments currently in use in the forensic chemistry unit.

Validation of the following will include a performance check on existing methods as well as the additional “POLYDRUG” method on a 15 meter column (15 meter HP-1 column) using autosample, splitless autosample, and manual methods in order to obtain their vapor phase IR spectra. The “POLYDRUG” method will introduce shorter ten minute run times for an array of different drugs allowing for faster analysis and a higher efficiency for case analysis. Due to the length of this column being different than the previously installed column, the GCMS calibration standard mix will be run as a monthly standard check with each standard’s wavenumber evaluated.

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR "Curie"

II. Materials:

Column & Liner:

-Agilent J & W GC HP-1 15 meter, 0.32 ID, 1.00um column (P/N #19091Z-213, S/N#US2618822H)
Restek Topaz Split/ Splitless straight with wool liner

Solvent and Standards

-Methanol, Fisher lot # 221068 Btl # 2 of 4 Exp. U/C

GCIR Std Mix

D-Amphetamine Sulfate K+K Labs Lot 83567
A- (D-L) Methamphetamine K+K Labs Lot 732A
Phentermine Sigma Lot 47H0208
0.5 NaOH lot 214252 / CHCl₃ lot 60059
Exp 4/20/24

GCMS Std Mix

Pethidine S.B. Penick Lot 413NMN-027
Cocaine Sigma Lot 5LCF4870
Hydrocodone Merck Lot V1526
MeOH Lot # 221068 Btl #1
Exp 3/20/24

THPFF4 Std Mix

Tramadol HCl Sigma Aldrich Lot BCBB9210
4-ANPP Cayman Chemical Co. Lot 0540831-30
Heroin Cayman Chemical Co. Lot 0559235-2
Para-Fluorofentanyl Cayman Chemical Co. Lot 0541563-60
Fentanyl USPC Lot 1275-F
MeOH lot 218157 Btl #8
Exp 3/22/24

Testosterone Benzoate

Sigma lot #49F0246
MeOH lot 202169 Btl #4 Exp 2/10/24

Delta 8 & 9 THC

Cerilliant Lot FE12271903
Cerilliant Lot FE02072001
MeOH (Cerilliant)
Exp 1/31/25

Delta 9 THC Acetate

Cayman Chemical Co Lot 0629000-1
Acetonitrile (Cayman)
Exp 10/5/23

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Etizolam

Cerilliant Lot FN06202103

MeOH (Cerilliant)

Exp 11/30/26

3,4 -MDMA

Cerilliant Lot FE06102011

MeOH (Cerilliant)

Exp 7/31/25

Oxycodone

Cerilliant Lot FE01082008

MeOH (Cerilliant)

Exp 1/31/25

Methamphetamine

Cerilliant Lot FE03132001

MeOH (Cerilliant)

Exp 7/31/25

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

III. Methods/ Procedures:

	THPFFA	GC-IR Test Solution	GCMS MIX	Delta 9 THC Acetate	Etizolam	Testosterone Benzoate	Oxycodone	Methamphetamine	3,4 - MDMA	Delta 8 & 9 THC
Autosample Methods										
60TO270		*								
120TO270			*							
120TO270(20MIN)										
200TO270				*						
ISO270(20MIN)					*					
ISO270(30MIN)						*				
POLYDRUG	*	*	*	*	-		*	*	*	*
Splitless Autosample Methods										
SL60TO270		*								
SL120TO270										
SL120TO270(20MIN)										
SL200TO270										
SLISO270(20MIN)					*					
SLISO270(30MIN)						*				
SLPOLYDRUG	*		*					*		
Manual Methods										
MAN60TO270										
MAN120TO270			*							
MAN120TO270(20MIN)										
MAN200TO270										
MANISO270(20MIN)										
MANISO270(30MIN)						*				
MANPOLYDRUG	*		*					*		

*Standards were run with corresponding methods on Curie (Agilent/ ASAP Analytical IRD3 GC-FTIR): The “IRD3 EXT” method on the ASAP Analytical IRD3 was used in conjunction with all Agilent GC methods. See Addendum for detailed method information.

- No peak observed

+ Peak observed, negative for target peak

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

IV. Experiment

This instrument consists of an Agilent Technologies 8890 Gas Chromatograph with Agilent 7693A Autosampler coupled to an ASAP Analytical Model 528A IRD3 GC-FTIR. Existing ASAP Analytical IRD3's and Thermo GC-FTIR's in our laboratory were previously validated and run at varying conditions to determine optimum values to obtain the best results. For “Curie”, standards were analyzed using a HP-1 15 meter column, 0.32 ID, 1.0 um film thickness which is the same type of column as “YODA” (another instrument in the forensic chemistry department). Standards were analyzed using previously validated autosample Agilent GC methods as well as previously validated manual Agilent GC methods. A limit of detection check will also be performed using a previously validated method to show consistency amongst instrumentation. The new POLYDRUG (POLYDRUG, SLPOLYDRUG, MANPOLYDRUG) methods were performance checked using several standards to demonstrate efficacy across a variety of drug types. These methods are intended for separation of polydrug mixtures within a ten (10) minute sample run time in conjunction with the “IRD3 EXT” method and their respective vapor phase IR spectra were obtained. Any autosample methods created were set in Agilent to an injection volume of 1uL and manual injections were set to 1 ul.

A performance check of the following standards were analyzed: Etizolam, Methamphetamine, Oxycodone, Testosterone Benzoate, 3,4 – MDMA, Delta 8 & 9 THC, Delta 9 THC Acetate, THPFF4A mix, GCIR Test solution, and the GCMS Mix. These standards were analyzed using various Agilent GC methods that have been previously validated along with additional POLYDRUG methods that are intended for separation of poly drug mixtures within a 10 minute sample run time. Blanks were run before each standard under the same method parameters of the standard. Standards were then compared to the TBI GCIR library.

Due to the length of the column being 15 meters on Curie, the GCMS mix was run as the monthly standard check with each standard's wavenumbers evaluated and a new wavenumber evaluation worksheet was created.

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

V. Results and Discussion:

The performance check on Curie demonstrates well – defined peaks and distinguishable spectra that can be differentiated and compared to known standards in our TBI GCIR library. Due to the length of the column being 15 meters on Curie, the GCMS mix will be run as a monthly standard check with each standard’s wavenumbers evaluated and documented on the appropriate wavenumber evaluation worksheet. Most standards ran using an autosample, splitless autosample, and manual GC methods run by the “IRD3 EXT” methods eluted within the allotted time frame and temperature program, had resolved peaks, and demonstrated spectra that were comparable to known standards in the TBI GCIR Library.

The only exception was etizolam when it was run by the polydrug method. This can be explained by Etizolam being a drug that is known to elute later versus earlier. In testing, Etizolam did come out at 8 minutes, but only when run at a constant temperature of 270c.

Some other considerations that need to be made when operating Curie and utilizing its 15 meter column are in reference to the concentration / ratio of certain compounds. Depending on the concentration / ratio of your sample, peak co-elution and masking of closely eluting compounds (for example para-fluorofentanyl and fentanyl as well as Delta 8 & 9 THC) may occur. Dilutions can be performed to aid in peak separation but you may not obtain the separation needed for confirmation and if one compound is in greater abundance while the other is weak, you may dilute the weaker compound beyond the limit of detection of the GCIR. Furthermore, steroids beyond 10 minutes on the GCMS by ASMSDRUGS100 method may extend beyond the ISO270(30MIN) method which has a 30 minute run time. Compounds such as these steroids were not evaluated at this time. They may need to be run by GC retention or LCMS to be confirmed.

Optical alignment values were monitored since the installation of the ASAP Analytical Instrument Curie and any necessary alignment and instrument inlet maintenance was performed prior to analyzing standards. The chart below outlines results observed for the period of the performance check and optical alignment value data since installation can be retrieved on the instrument by the Optics Alignment Excel spreadsheet.

Date	Optical Alignment Value
6/6/23	1.93
6/7/23	1.84
6/8/23	1.86
6/9/23	1.88
6/12/23	1.99

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

VI. Conclusions / Training:

After a performance check of methods which included the POLYDRUG method on Curie, the ASAP Analytical IRD3 instrument showed comparable results in instrument responses to the existing TBI GCIR libraries. The instrument can now be verified as fit for use given analyst's familiarization and use of the instrument previously. Curie is an ASAP IRD3 GCIR of the same make and model as other instruments used throughout the Forensic Chemistry units across the state. Therefore, no additional training or competency testing are necessary before using this instrument for casework.

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

(Methods for Agilent/ASAP Analytical IRD3 GC-FTIR 15 Meter Column)

Agilent GC:

Front Column: S/SL Injection Port with recommended HP-1 15 meter column, 0.32 column ID, and 1um film thickness:

Stored Methods for *AUTOSAMPLE SPLIT INJECTION*

60TO270	Initial 60C, hold for 2 Min @60C. Ramp @70C per Min to 270C. 10 Minute Method.
120TO270	Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 10 Minute Method.
120TO270(20MIN)	Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 20 Minute Method.
200TO270	Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 10 Minute Method
200TO270(20MIN)	Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 20 Minute Method.
ISO270(20MIN)	ISO270C, hold FOR 20 Min @270C, 20 minute method.
ISO270(30MIN)	ISO270C, hold FOR 20 Min @270C, 30 minute method.
POLYDRUG	120C to 270C, hold for 0.3 MIN @120C, ramp @55C per min to 230C. Ramp @10C per min to 270C. 10 minute method.
GCHER	Helium reduction method

Stored Methods for *AUTOSAMPLE SPLITLESS INJECTION*

SL60TO270	Initial 60C, hold for 2 Min @60C. Ramp @70C per Min to 270C. 10 Minute Method.
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Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

SL120TO270 Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 10 Minute Method.

SL120TO270(20MIN) Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 20 Minute Method.

SL200TO270 Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 10 Minute Method

200TO270(20MIN) Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 20 Minute Method.

SLISO270(20MIN) ISO270C, hold FOR 20 Min @270C, 20 minute method.

SLISO270(30MIN) ISO270C, hold FOR 20 Min @270C, 30 minute method.

SLPOLYDRUG 120C to 270C, hold for 0.3 MIN @120C, ramp @55C per min to 230C. Ramp @10C per min to 270C. 10 minute method.

Stored Methods for *MANUAL SPLIT INJECTION*

MAN60TO270 Initial 60C, hold for 2 Min @60C. Ramp @70C per Min to 270C. 10 Minute Method.

MAN120TO270 Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 10 Minute Method.

MAN120TO270(20MIN) Initial 120C, hold for 1 Min @120C. Ramp @70C per Min to 270C. 20 Minute Method.

MAN200TO270 Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 10 Minute Method

MAN200TO270(20MIN) Initial 200C, hold for 1 Min @200C. Ramp @70C per Min to 270C. 20 Minute Method.

MANISO270(20MIN) ISO270C, hold FOR 20 Min @270C, 20 minute method.

Validation / Performance check for Agilent GC 8890 ASAP Analytical IRD3 GC-FTIR “Curie”

MANISO270(30MIN) ISO270C, hold FOR 20 Min @270C, 30 minute method.

MANPOLYDRUG 120C to 270C, hold for 0.3 MIN @120C, ramp @55C per min to 230C. Ramp @10C per min to 270C. 10 minute method.

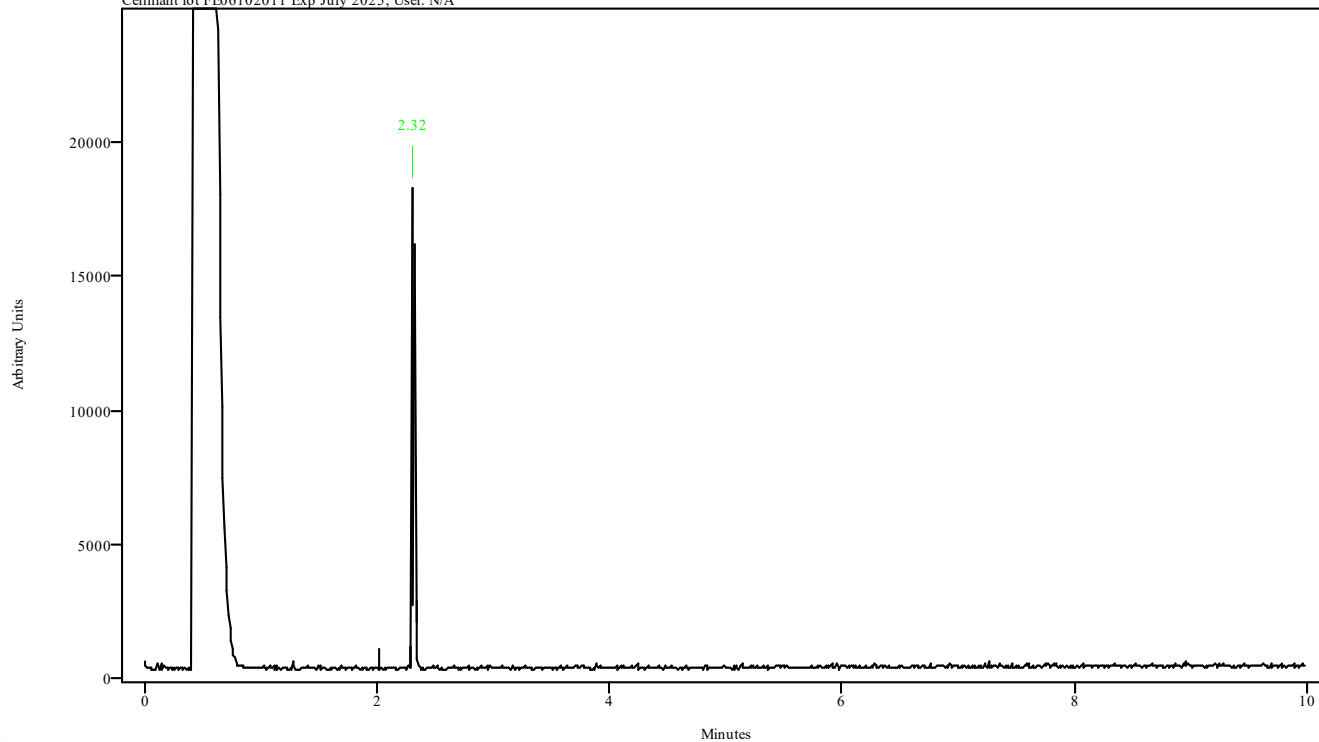
ASAP Analytical IRD3 (FTIR)

IRD3 EXT Resolution of 8 cm⁻¹ with a Co-Add (Scans) of 2, Background Scans (Collecting Basis Set→Basis Set File 10 times with 6 scans each = 60 Scans) prior to each sample, set at Auto Calculate Gain (typically 1-2), Frequency range 550-4000 cm⁻¹, Apodization: Triangle, Phase Correction: Mertz, Zero Fill: 1, Flow Cell, Transfer Lines A & B at 280C, Smoothing Factor: OFF, Length 100, Symmetry: 2, Offset 60, Source Power at 22, and Laser Wavelength of 0.63299.

IRD Data Analysis Report

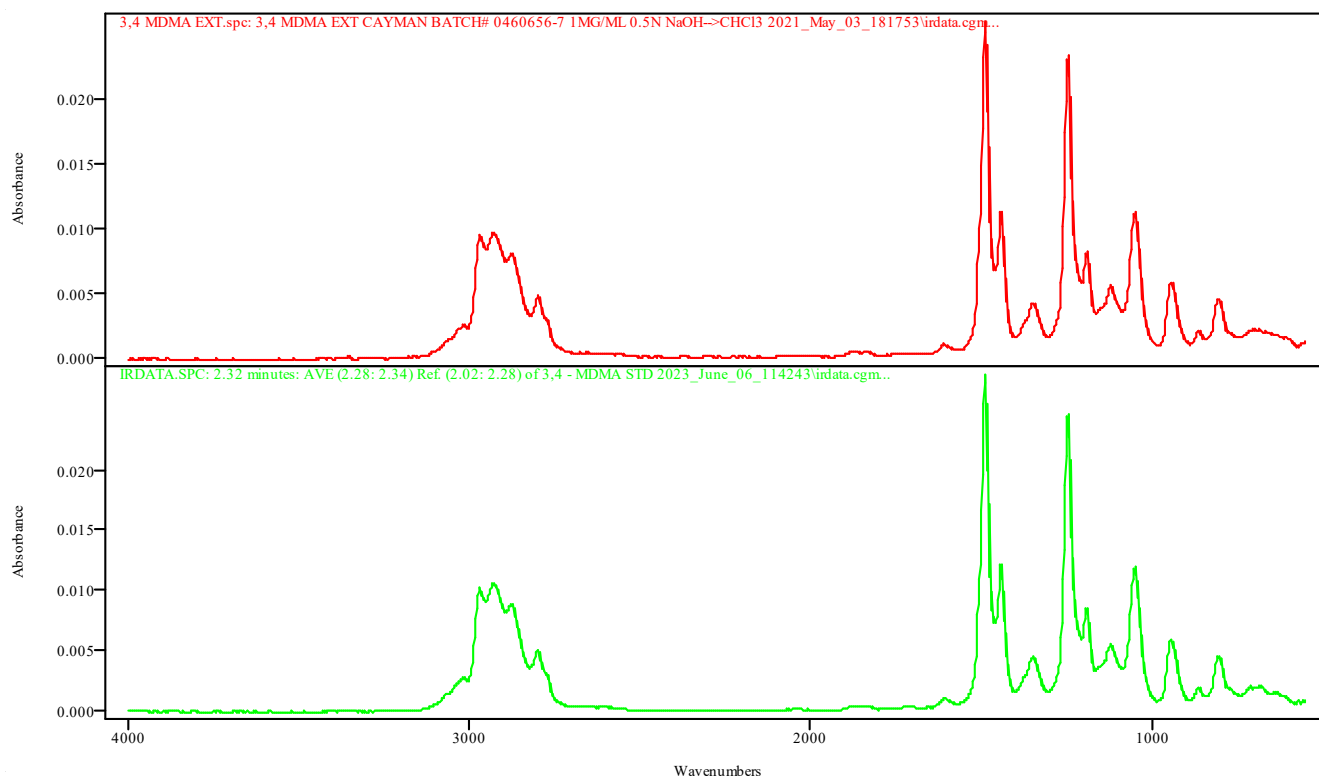
Data Filename	3,4 - MDMA STD 2023_June_06_114243
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	9
Sample Name	Cerilliant lot FE06102011 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:54:33 2023
Date Processed	Mon Jun 12 07:29:20 2023

irdata.cgm: 3,4 - MDMA STD 2023_June_06_114243\irdata.cgm : Misc. Info: Acetonitrile:Curie; Sample: Cerilliant lot FE06102011 Exp July 2025; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.284	2.339	0.056	2.016	2.284

Data Filename	3,4 - MDMA STD 2023_June_06_114243
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	9
Sample Name	Cerilliant lot FE06102011 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:54:33 2023
Date Processed	Mon Jun 12 07:29:20 2023



IRDATA.SPC: 2.32 minutes: AVE (2.28: 2.34) Ref. (2.02: 2.28) of 3,4 - MDMA STD 2023_June_06_114243.cgm

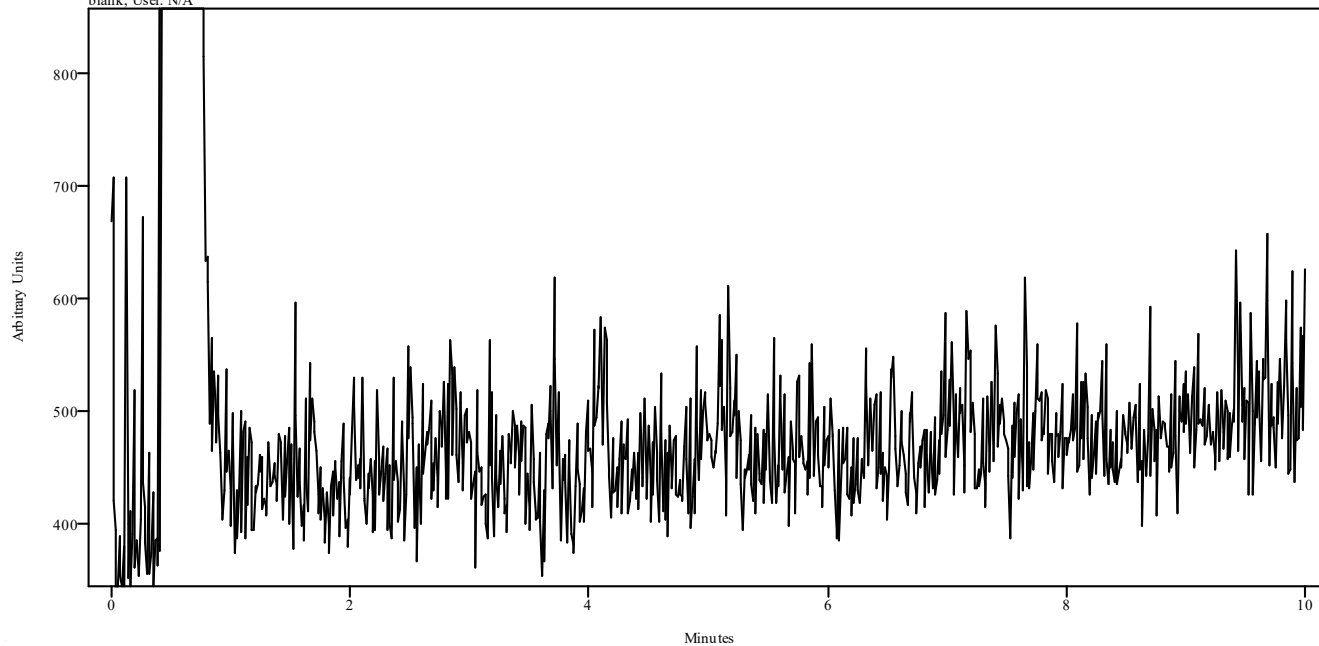
3,4 MDMA EXT.spc: 3,4 MDMA EXT CAYMAN BATCH# 0460656-7 1MG/ML 0.5N NaOH-->CHCl3 2021_May_03_181753\irdata.cgm

Metric	Name	Library	Entry
0.998901	3,4 MDMA EXT CAYMAN BATCH# 0460656-7 1MG/ML 0.5N NaOH-->CHCl3 2021_May_03_181753\irdata.cgm	TBI GCIR EXT BH	1: 3,4 MDMA EXT.spc

IRD Data Analysis Report

Data Filename	3,4 - MDMA MB 2023_June_06_112853
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:40:43 2023
Date Processed	Mon Jun 12 07:31:30 2023

raw.cgm: 3,4 - MDMA MB 2023_June_06_112853\raw.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

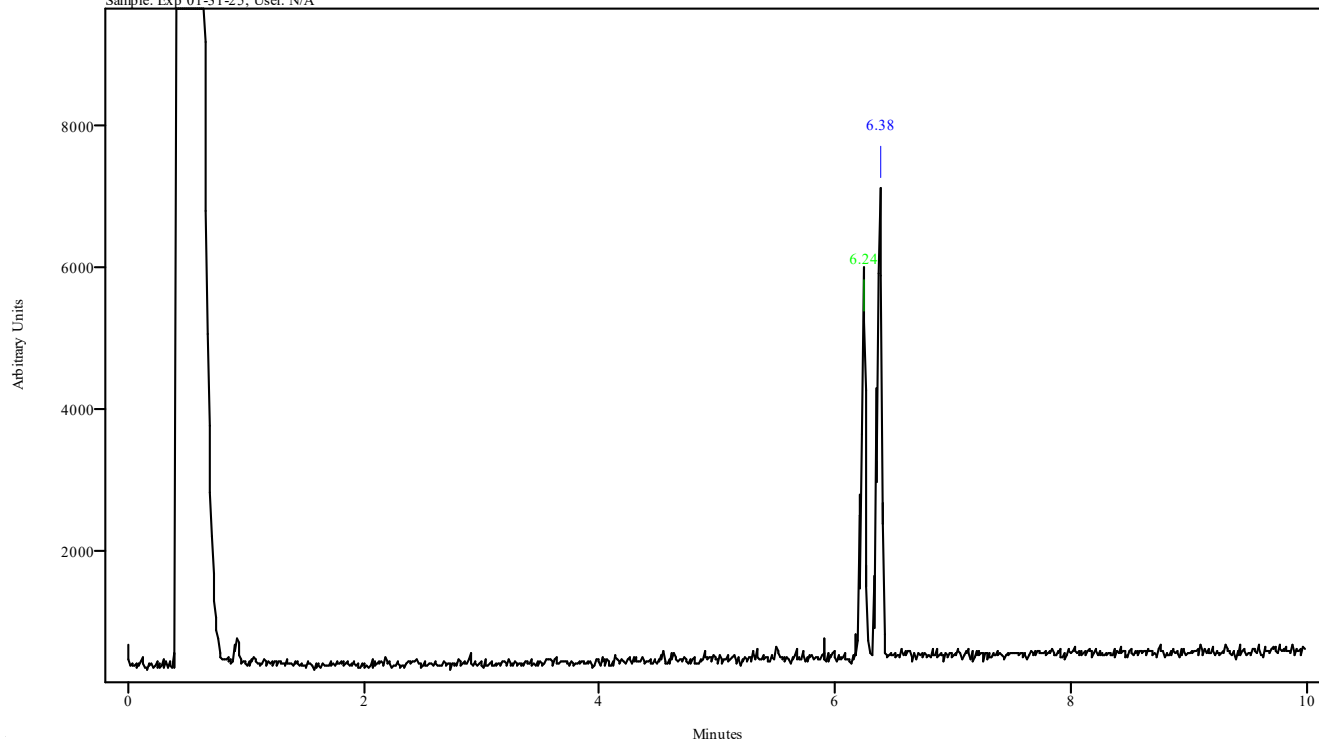


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

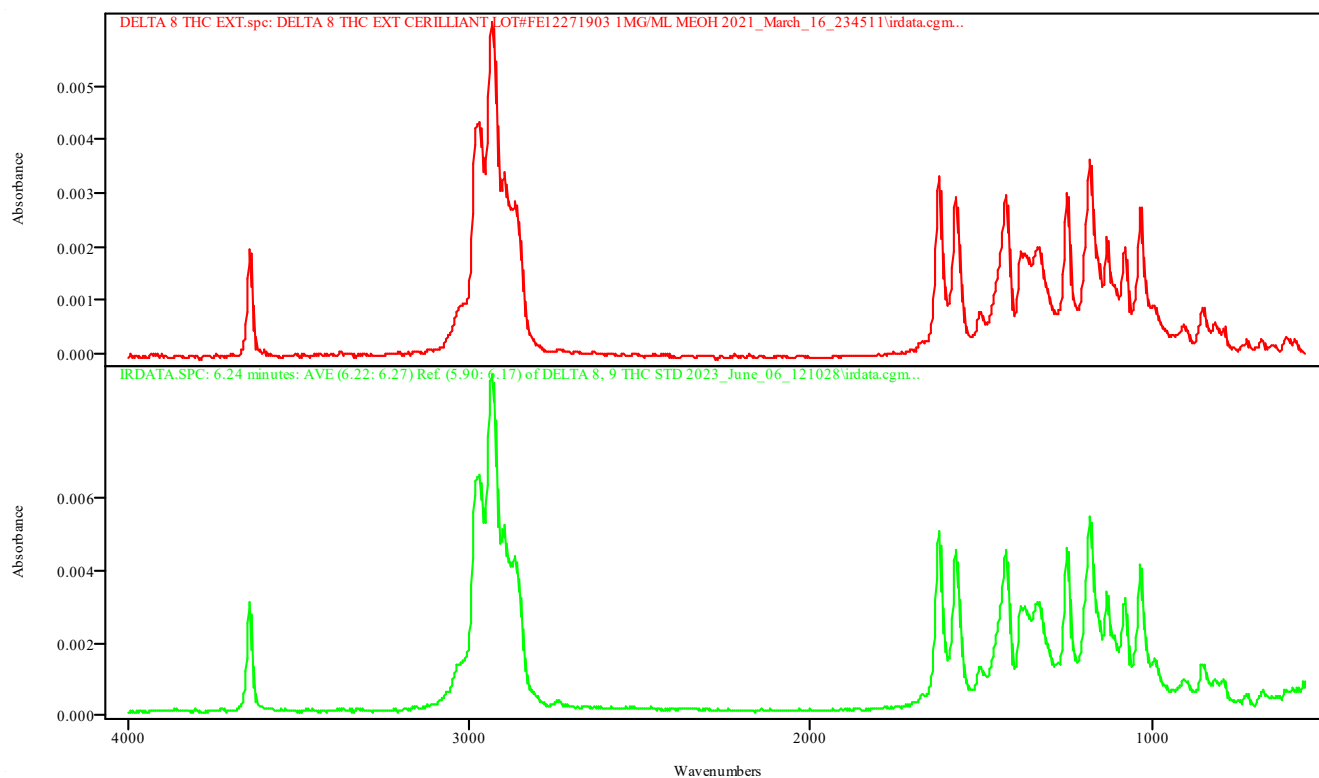
Data Filename	DELTA 8, 9 THC STD 2023_June_06_121028
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	10
Sample Name	Exp 01-31-25
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 12:22:17 2023
Date Processed	Mon Jun 12 07:32:27 2023

irdata.cgm: DELTA 8, 9 THC STD 2023_June_06_121028\irdata.cgm : Misc. Info: Acetonitrile:Curie;
Sample: Exp 01-31-25; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
6.216	6.272	0.056	5.904	6.172
6.350	6.406	0.056	5.904	6.172

Data Filename	DELTA 8, 9 THC STD 2023_June_06_121028
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	10
Sample Name	Exp 01-31-25
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 12:22:17 2023
Date Processed	Mon Jun 12 07:32:27 2023

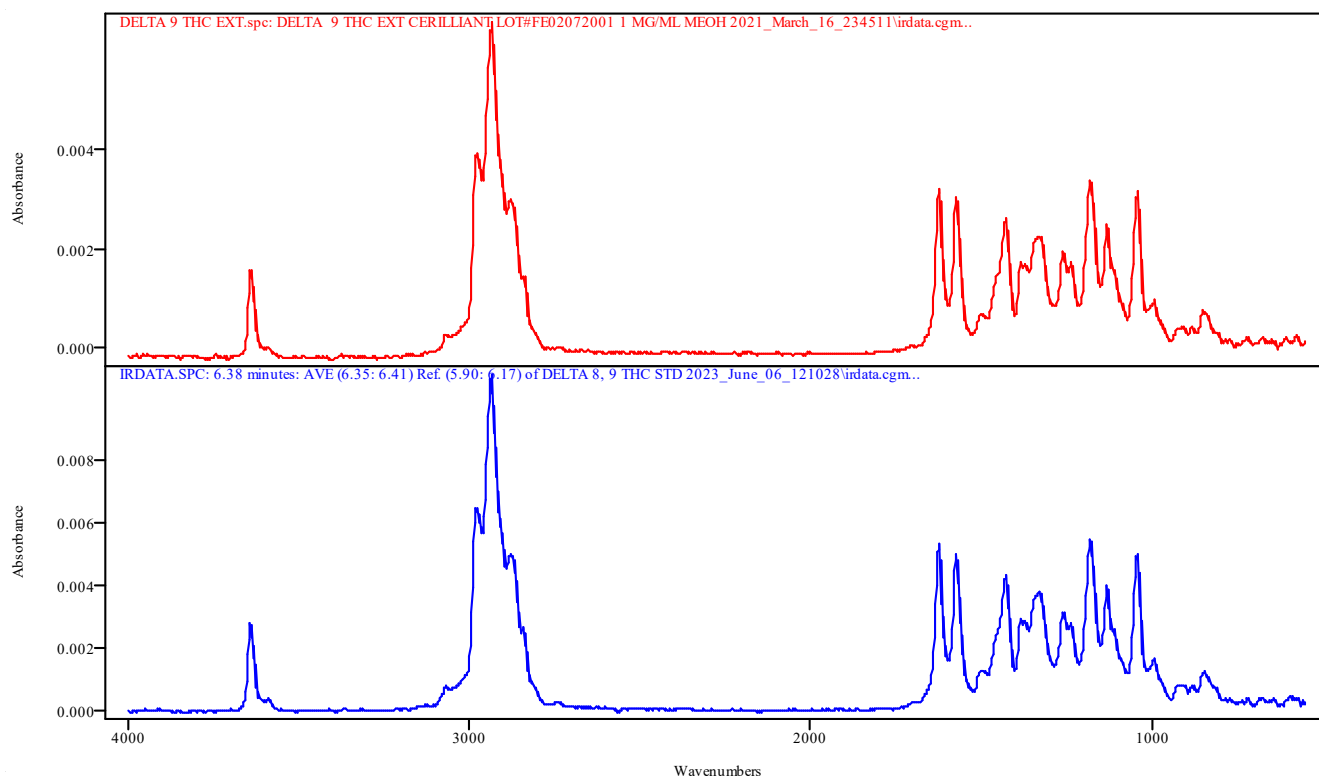


IRDATA.SPC: 6.24 minutes: AVE (6.22: 6.27) Ref. (5.90: 6.17) of DELTA 8, 9 THC STD 2023_June_06_121028.cgm

DELTA 8 THC EXT.spc: DELTA 8 THC EXT CERILLIANT LOT#FE12271903 1MG/ML MEOH 2021_March_16_234511\irdata.cgm

Metric	Name	Library	Entry
0.998731	DELTA 8 THC EXT CERILLIANT LOT#FE12271903 1MG/ML MEOH 2021_March_16_234511\irdata.cgm	TBI GCIR EXT BH	19: DELTA 8 THC EXT.spc

Data Filename	DELTA 8, 9 THC STD 2023_June_06_121028
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	10
Sample Name	Exp 01-31-25
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 12:22:17 2023
Date Processed	Mon Jun 12 07:32:27 2023



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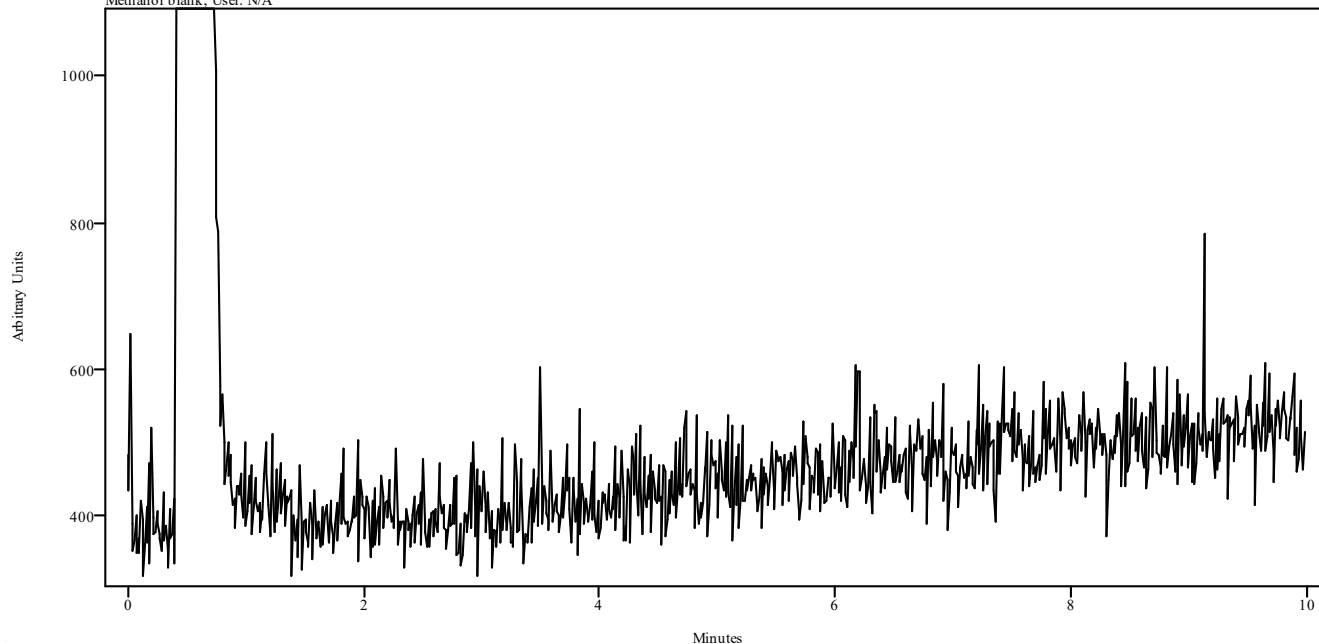
DELTA 9 THC EXT.spc: DELTA 9 THC EXT CERILLIANT LOT#FE02072001 1 MG/ML MEOH 2021_March_16_234511\irdata.cgm

Metric	Name	Library	Entry
0.998528	DELTA 9 THC EXT CERILLIANT LOT#FE02072001 1 MG/ML MEOH 2021_March_16_234511\irdata.cgm	TBI GCIR EXT BH	20: DELTA 9 THC EXT.spc

IRD Data Analysis Report

Data Filename	DELTA 8, 9 THC MB 2023_June_06_115633
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 12:08:27 2023
Date Processed	Mon Jun 12 07:34:32 2023

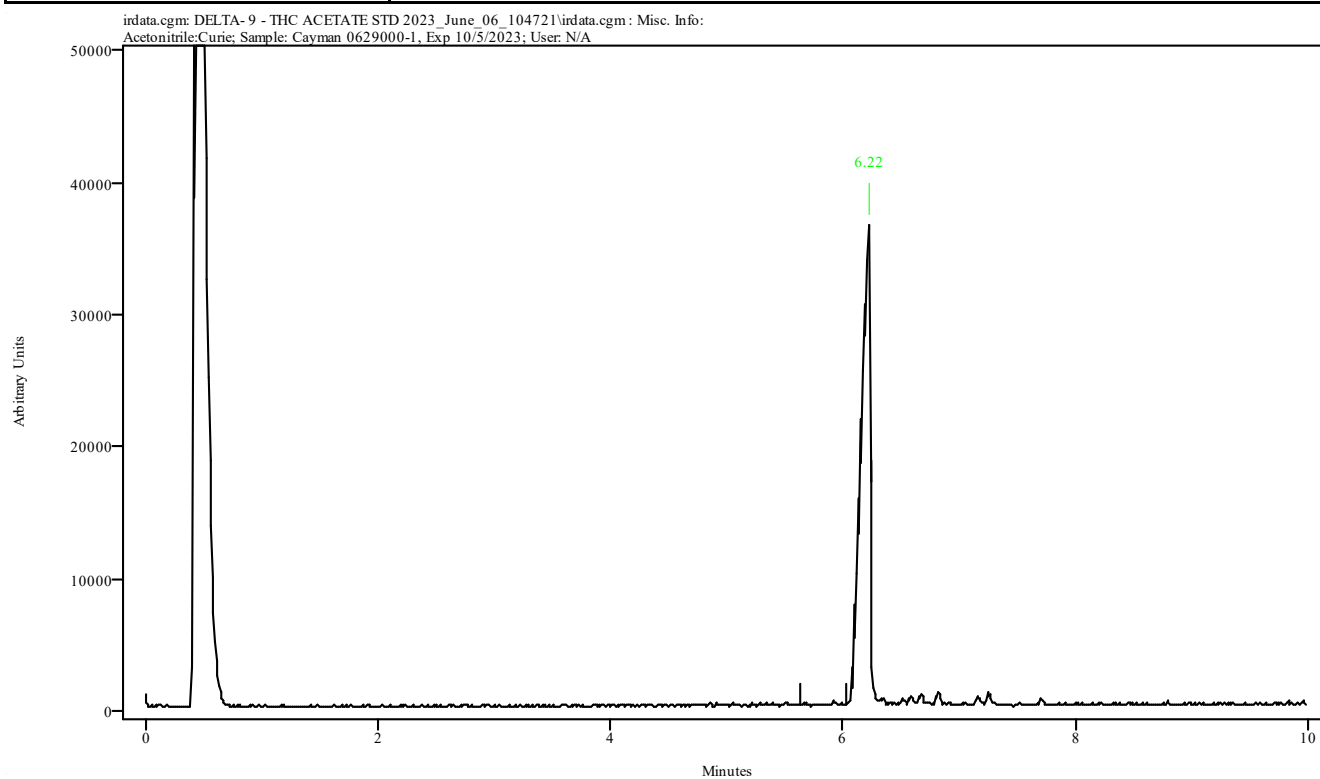
irdata.cgm: DELTA 8, 9 THC MB 2023_June_06_115633\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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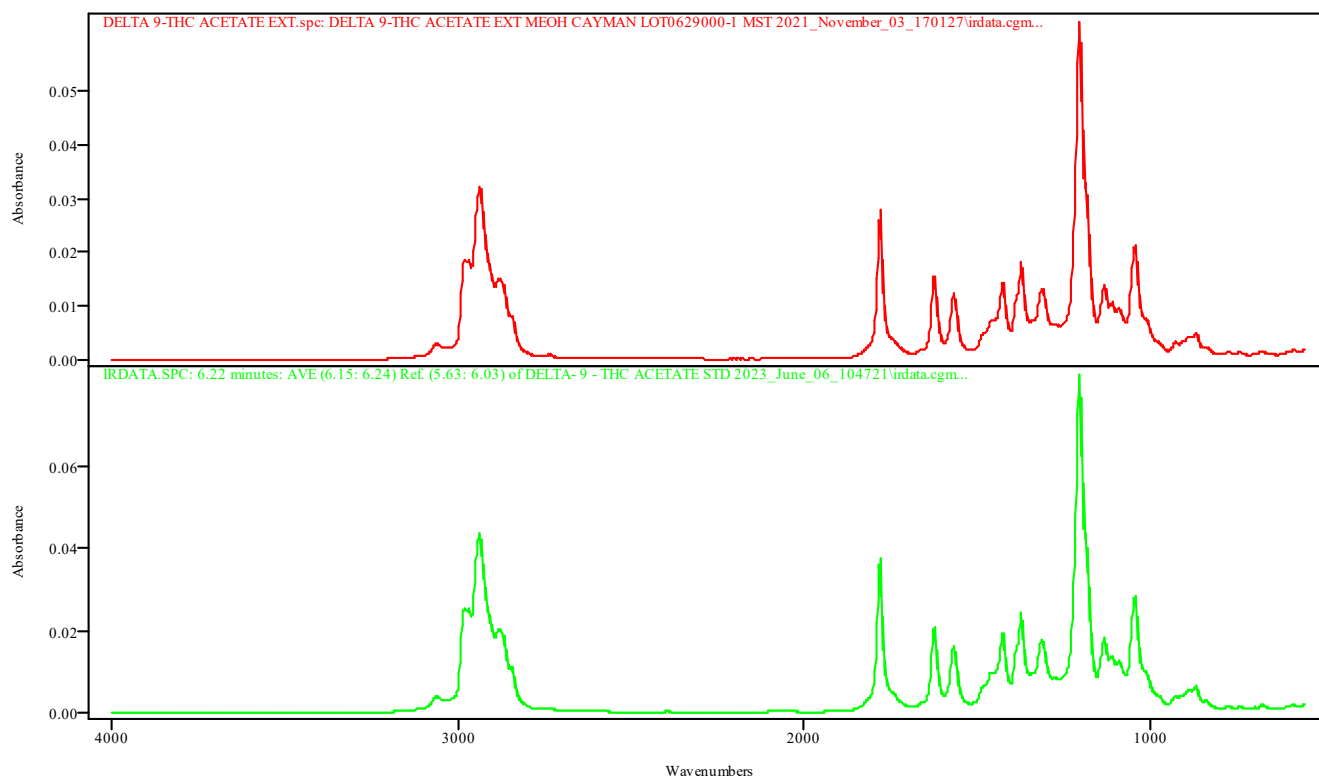
IRD Data Analysis Report

Data Filename	DELTA- 9 - THC ACETATE STD 2023_June_06_104721
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	7
Sample Name	Cayman 0629000-1, Exp 10/5/2023
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:59:13 2023
Date Processed	Fri Jun 09 13:50:44 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
6.151	6.240	0.089	5.628	6.029

Data Filename	DELTA- 9 - THC ACETATE STD 2023_June_06_104721
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	7
Sample Name	Cayman 0629000-1, Exp 10/5/2023
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:59:13 2023
Date Processed	Fri Jun 09 13:50:44 2023



IRDATA.SPC: 6.22 minutes: AVE (6.15: 6.24) Ref. (5.63: 6.03) of DELTA- 9 - THC ACETATE STD 2023_June_06_104721.cgm

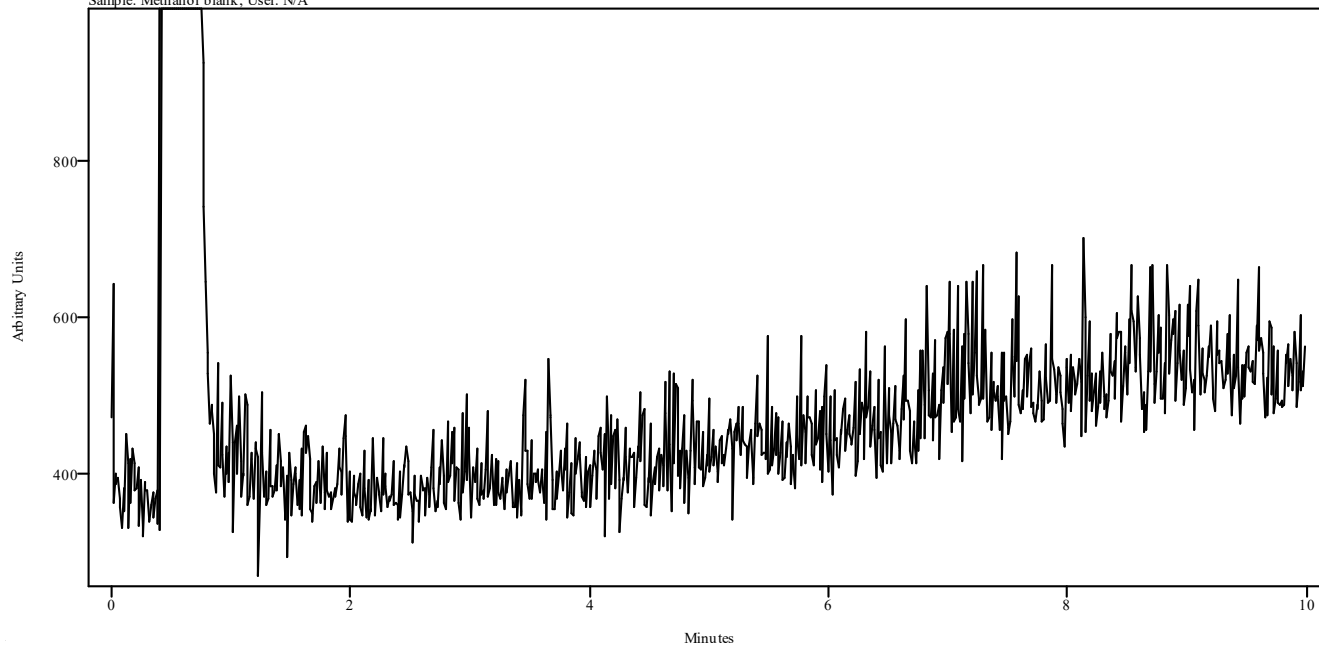
DELTA 9-THC ACETATE EXT.spc: DELTA 9-THC ACETATE EXT MEOH CAYMAN LOT0629000-1 MST 2021_November_03_170127\irdata.cgm

Metric	Name	Library	Entry
0.999540	DELTA 9-THC ACETATE EXT MEOH CAYMAN LOT0629000-1 MST 2021_November_03_170127\irdata.cgm	TBI GCIR EXT BH	21: DELTA 9-THC ACETATE EXT.spc

IRD Data Analysis Report

Data Filename	DELTA- 9 - THC ACETATE MB 2023_June_06_103331
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:45:20 2023
Date Processed	Fri Jun 09 13:50:39 2023

irdata.cgm: DELTA- 9 - THC ACETATE MB 2023_June_06_103331\irdata.cgm : Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A

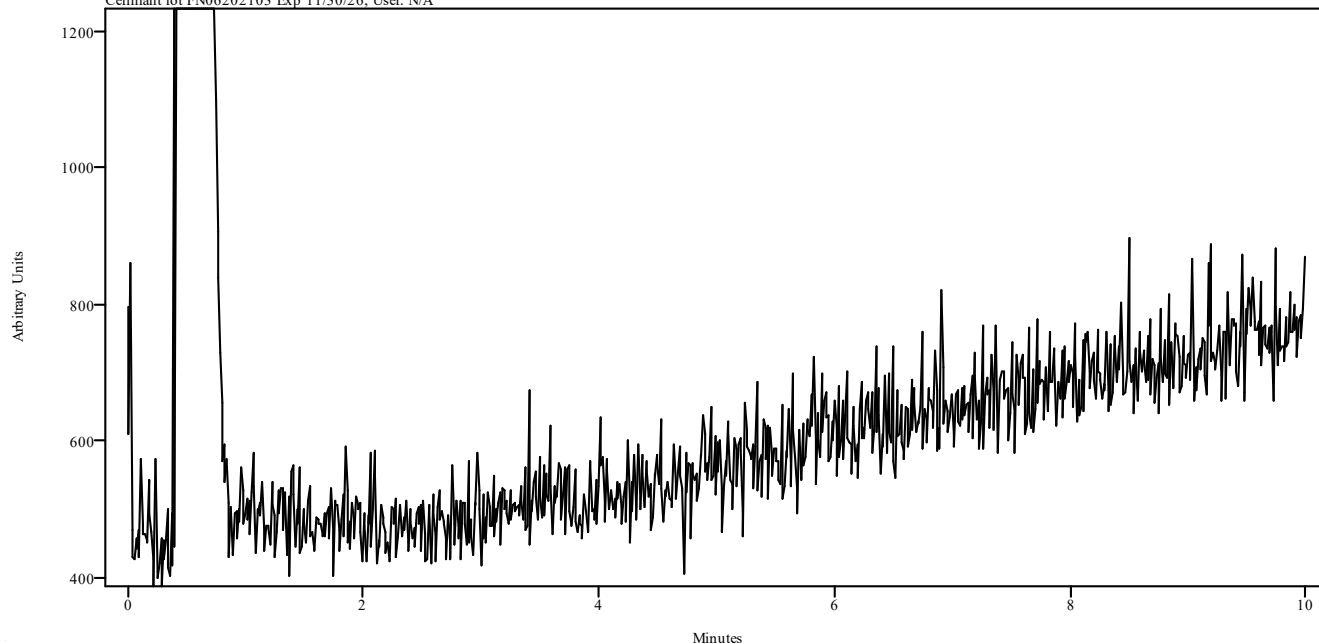


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

Data Filename	ETIZOLAM STD 2023_June_07_113549
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	12
Sample Name	Cerilliant lot FN06202103 Exp 11/30/26
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Wed Jun 07 11:47:38 2023
Date Processed	Fri Jun 09 13:57:34 2023

irdata.cgm: ETIZOLAM STD 2023_June_07_113549\irdata.cgm : Misc. Info: Acetonitrile:Curie; Sample: Cerilliant lot FN06202103 Exp 11/30/26; User: N/A

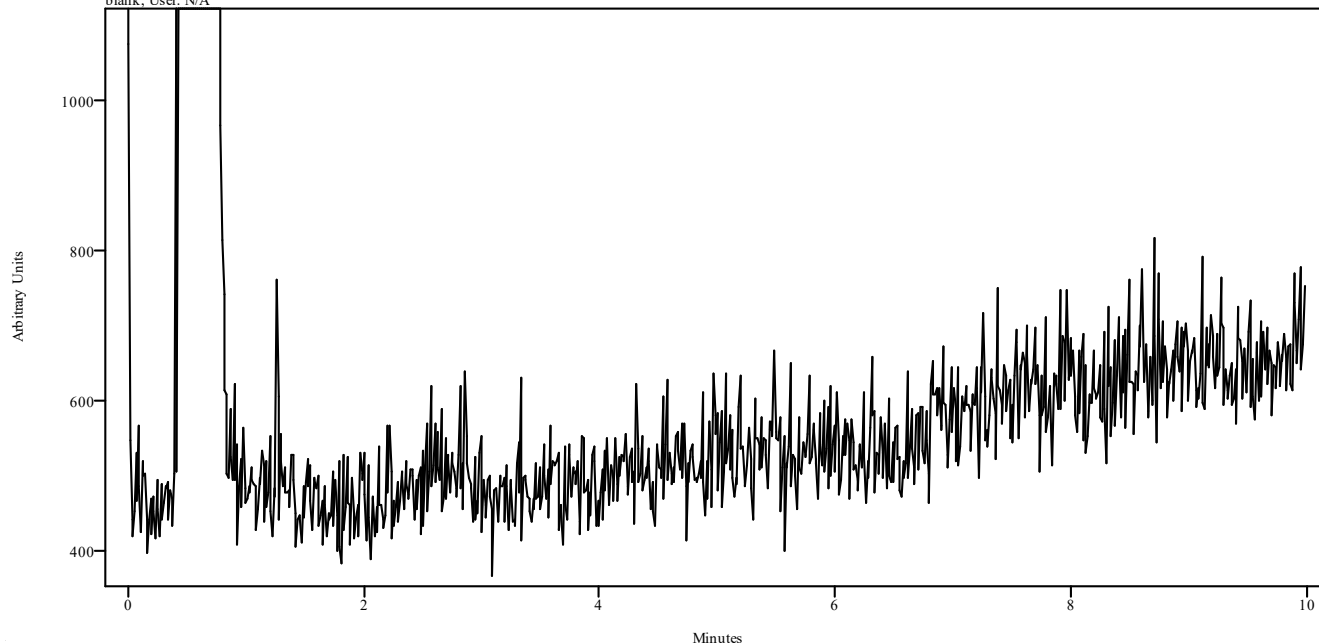


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

Data Filename	ETIZOLAM MB 2023_June_07_112134
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 11:33:49 2023
Date Processed	Fri Jun 09 13:57:28 2023

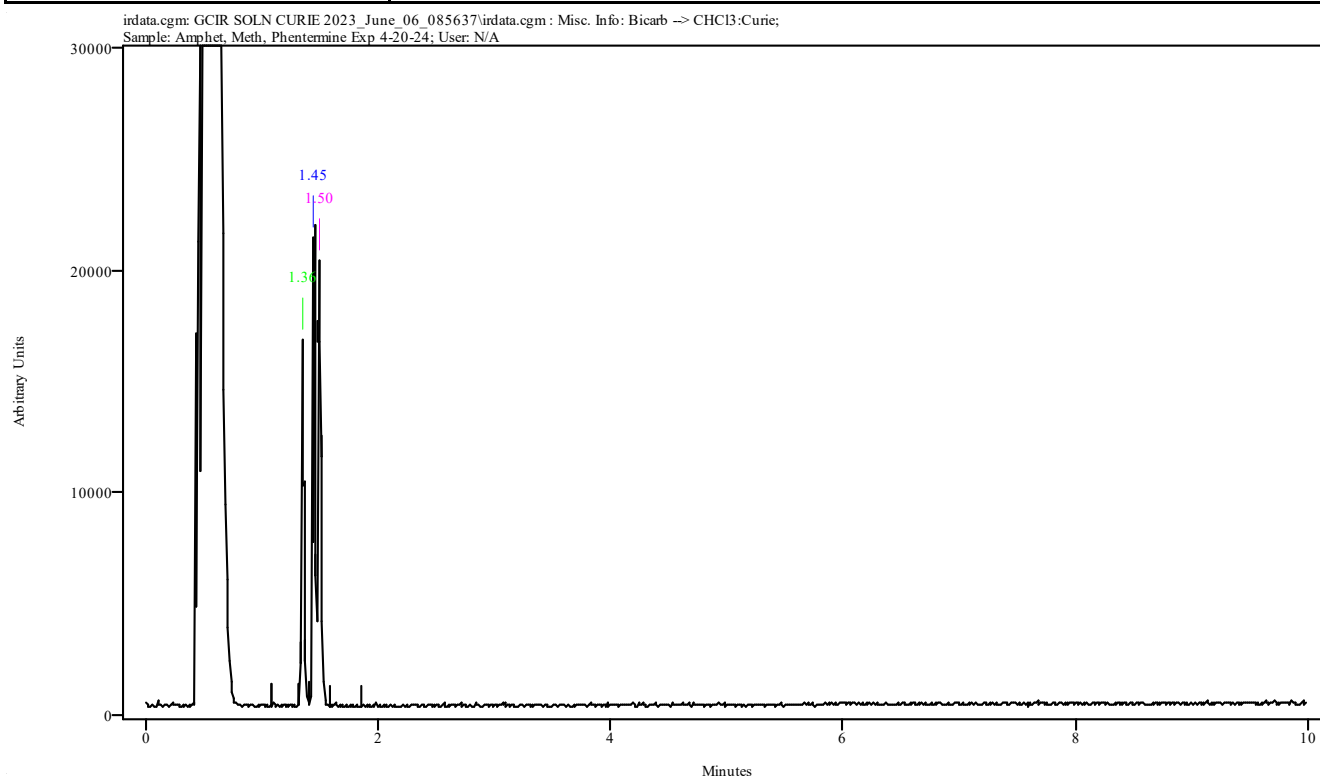
irdata.cgm: ETIZOLAM MB 2023_June_07_112134\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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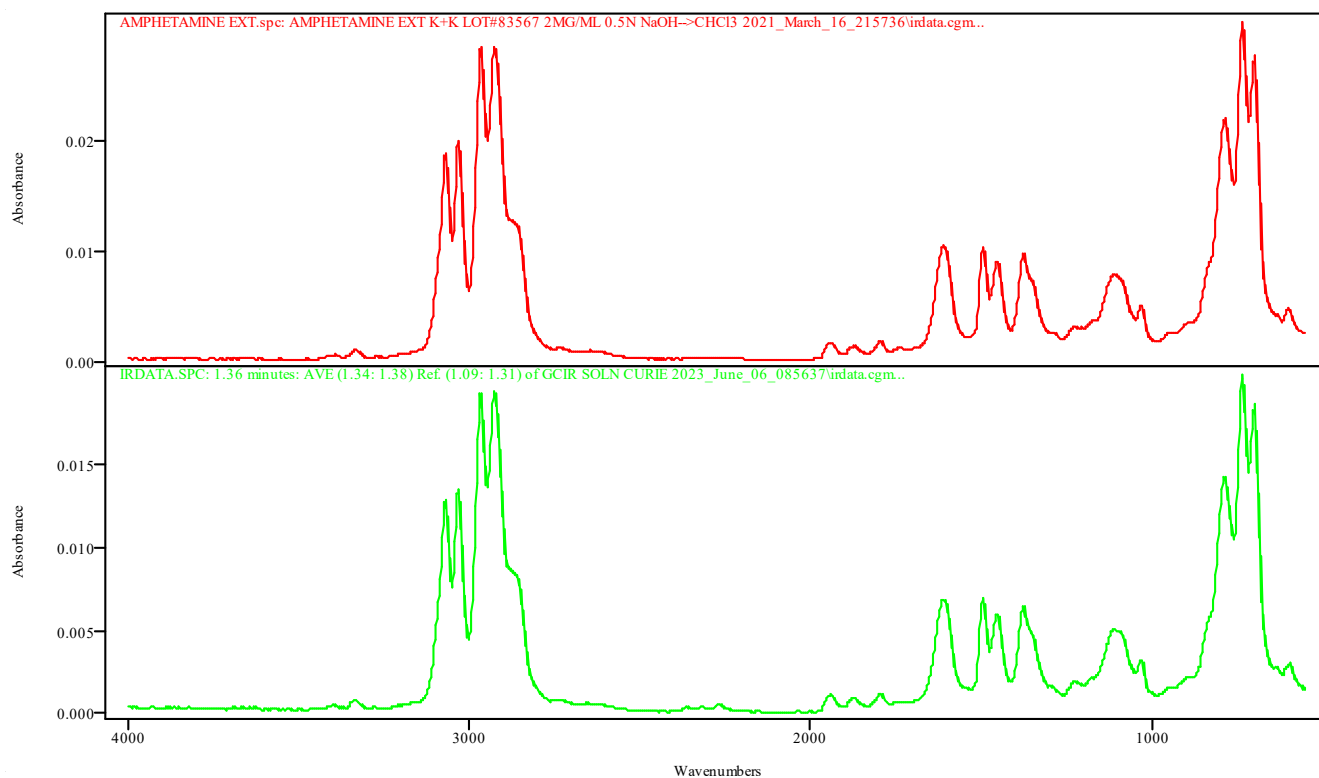
IRD Data Analysis Report

Data Filename	GCIR SOLN CURIE 2023_June_06_085637
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:08:24 2023
Date Processed	Fri Jun 09 13:42:18 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
1.337	1.381	0.045	1.092	1.314
1.403	1.470	0.067	1.092	1.314
1.488	1.520	0.022	1.590	1.862

Data Filename	GCIR SOLN CURIE 2023_June_06_085637
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:08:24 2023
Date Processed	Fri Jun 09 13:42:18 2023

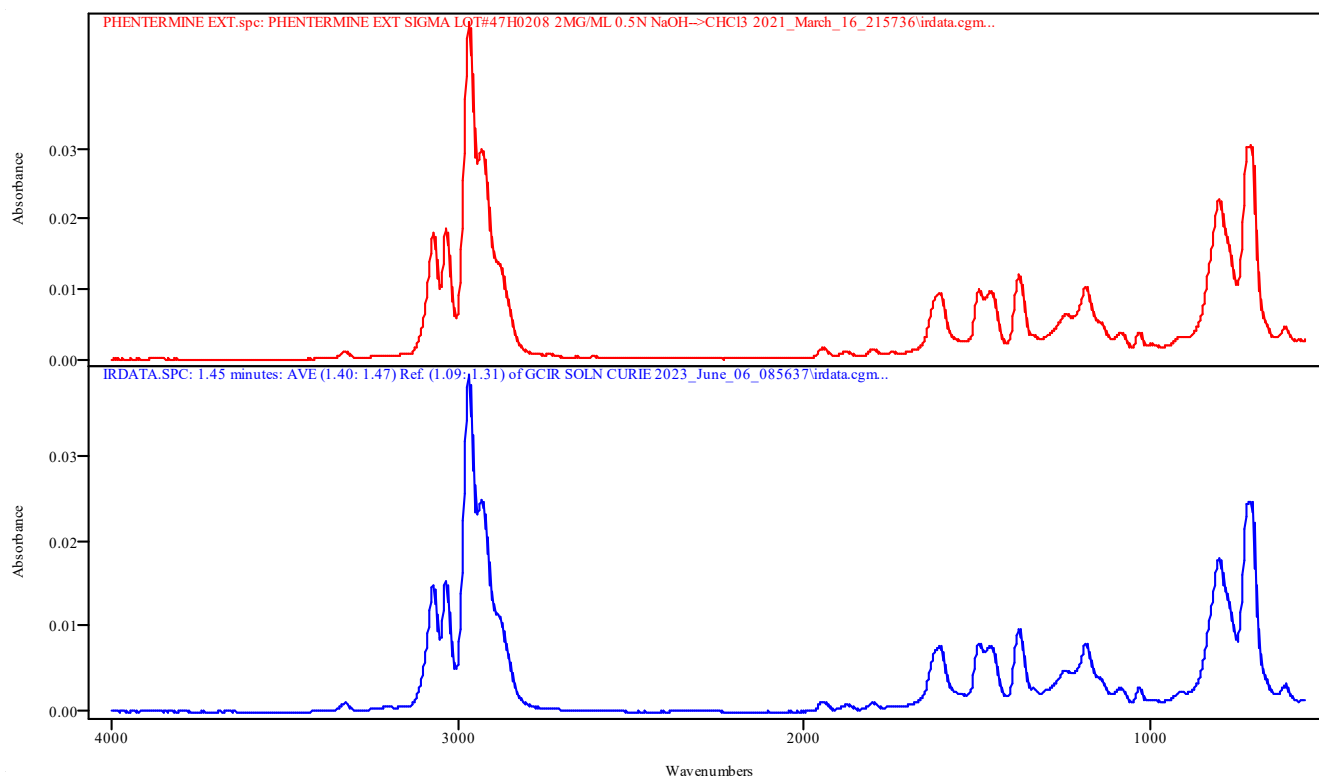


IRDATA.SPC: 1.36 minutes: AVE (1.34: 1.38) Ref. (1.09: 1.31) of GCIR SOLN CURIE 2023_June_06_085637.cgm

AMPHETAMINE EXT.spc: AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999259	AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	12: AMPHETAMINE EXT.spc

Data Filename	GCIR SOLN CURIE 2023_June_06_085637
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:08:24 2023
Date Processed	Fri Jun 09 13:42:18 2023

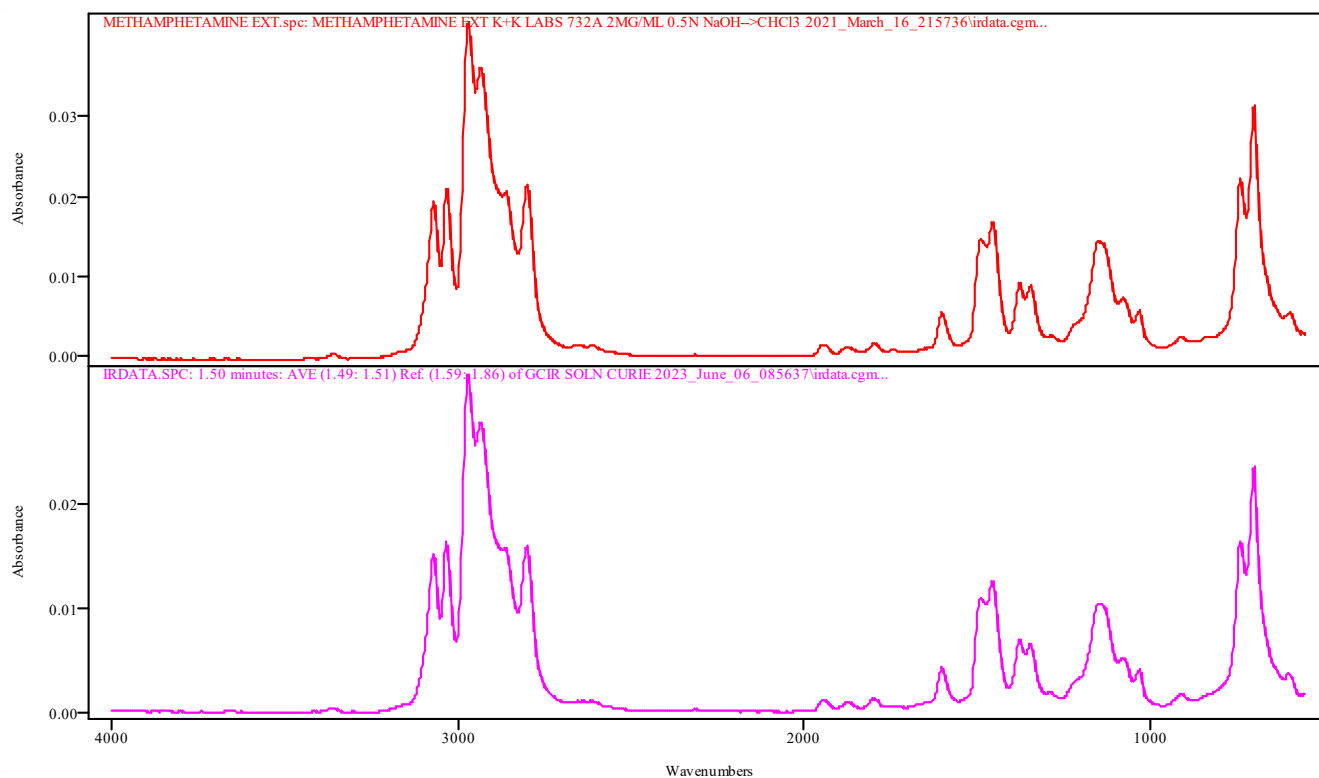


IRDATA.SPC: 1.45 minutes: AVE (1.40: 1.47) Ref. (1.09: 1.31) of GCIR SOLN CURIE 2023_June_06_085637.cgm

PHENTERMINE EXT.spc: PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999175	PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	55: PHENTERMINE EXT.spc

Data Filename	GCIR SOLN CURIE 2023_June_06_085637
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:08:24 2023
Date Processed	Fri Jun 09 13:42:18 2023



IRDATA.SPC: 1.50 minutes: AVE (1.49: 1.51) Ref. (1.59: 1.86) of GCIR SOLN CURIE 2023_June_06_085637.cgm

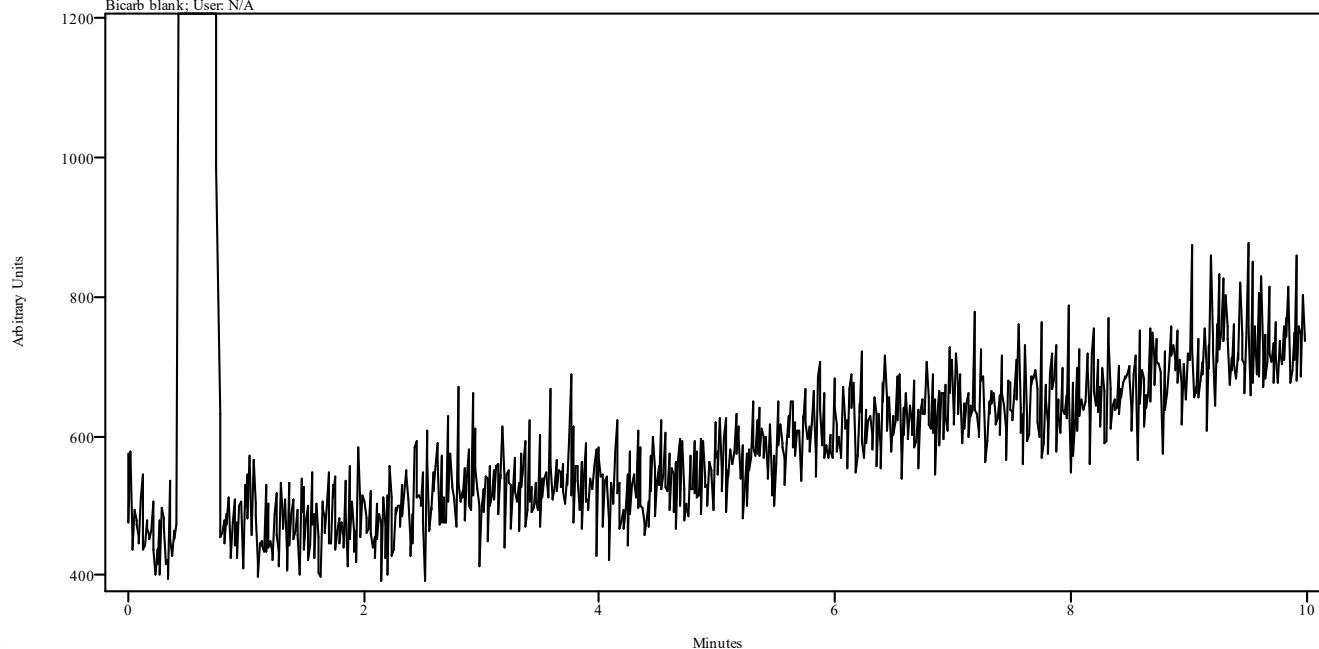
METHAMPHETAMINE EXT.spc: METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.998967	METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	40: METHAMPHETAMINE EXT.spc

IRD Data Analysis Report

Data Filename	GCIR SOLN MB 2023_June_06_084224
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	2
Sample Name	Bicarb blank
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 08:54:36 2023
Date Processed	Fri Jun 09 13:40:24 2023

irdata.cgm: GCIR SOLN MB 2023_June_06_084224\irdata.cgm : Misc. Info: Bicarb --> CHCl3:Curie; Sample: Bicarb blank; User: N/A

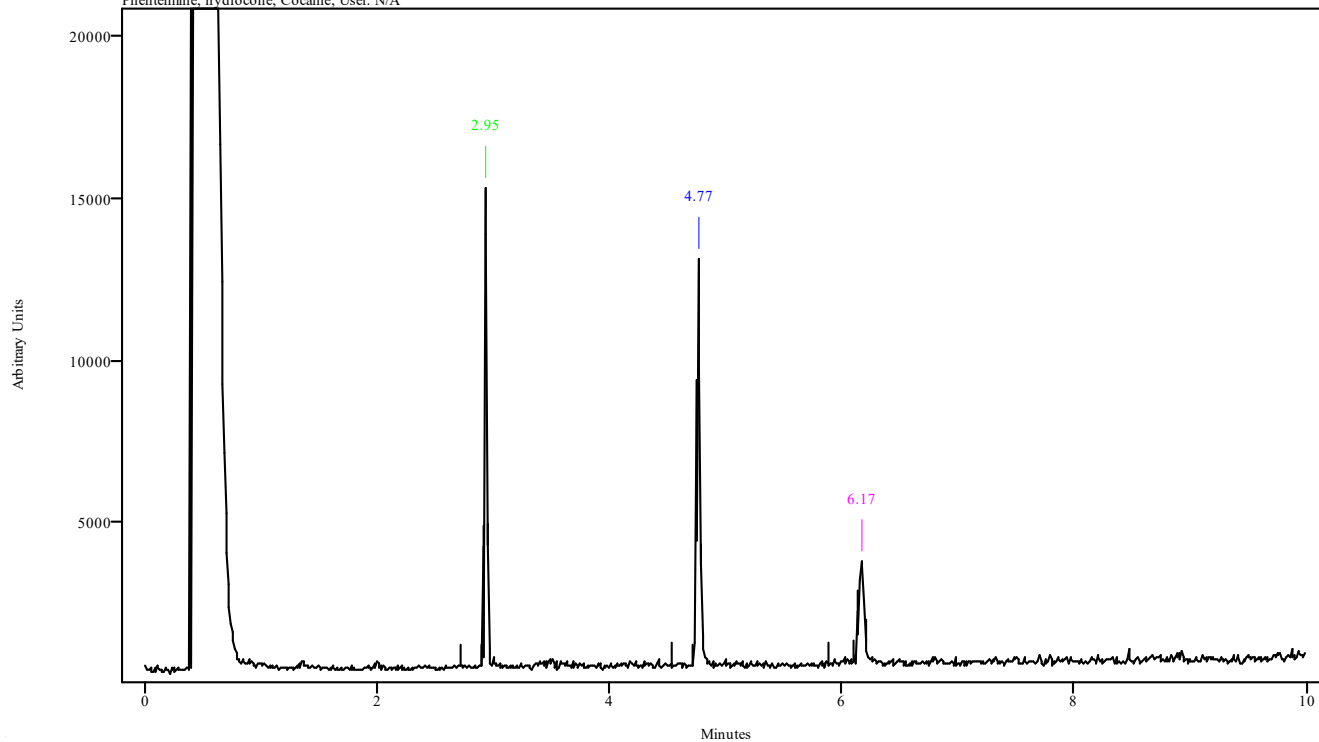


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

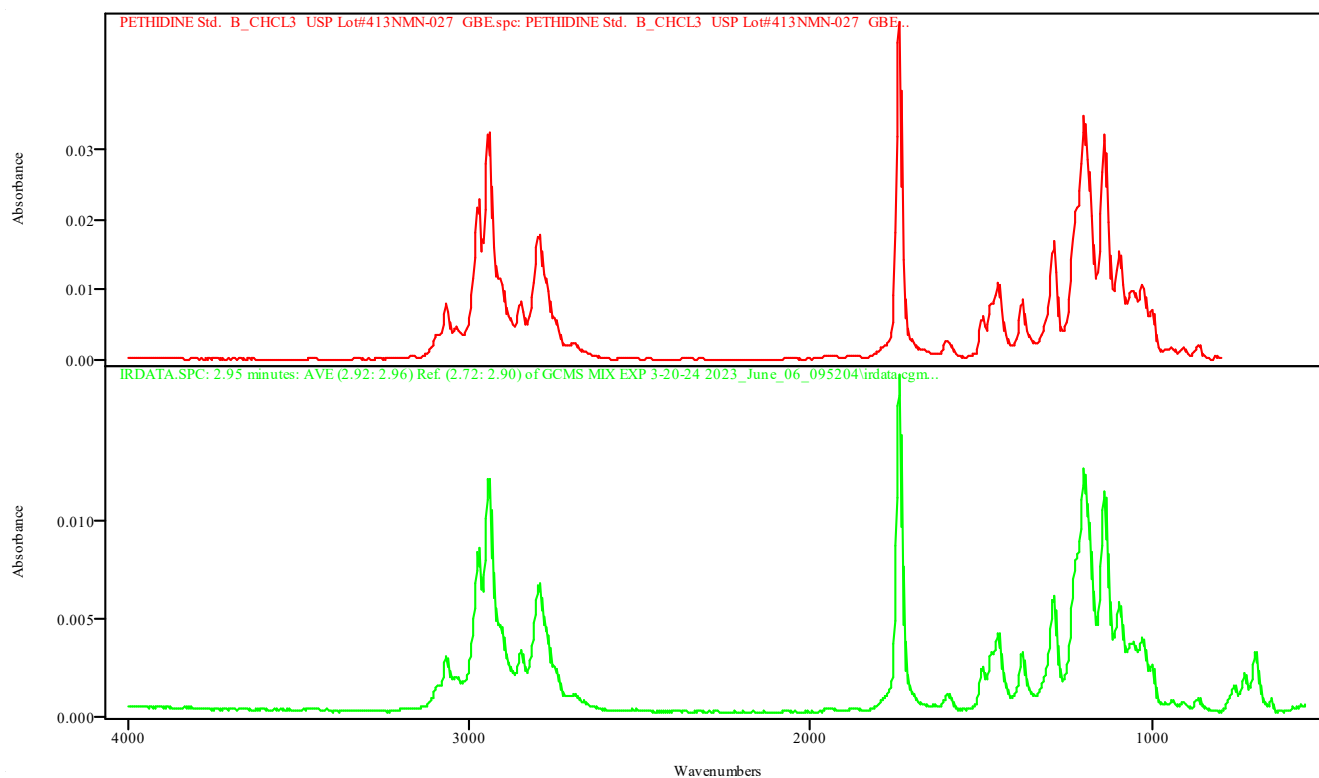
Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine ¹⁹ , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

irdata.cgm: GCMS MIX EXP 3-20-24 2023_June_06_095204\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Phentermine, hydrocone, Cocaine; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.924	2.958	0.033	2.724	2.902
4.748	4.792	0.044	4.537	4.714
6.149	6.204	0.056	5.882	6.104

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine , Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

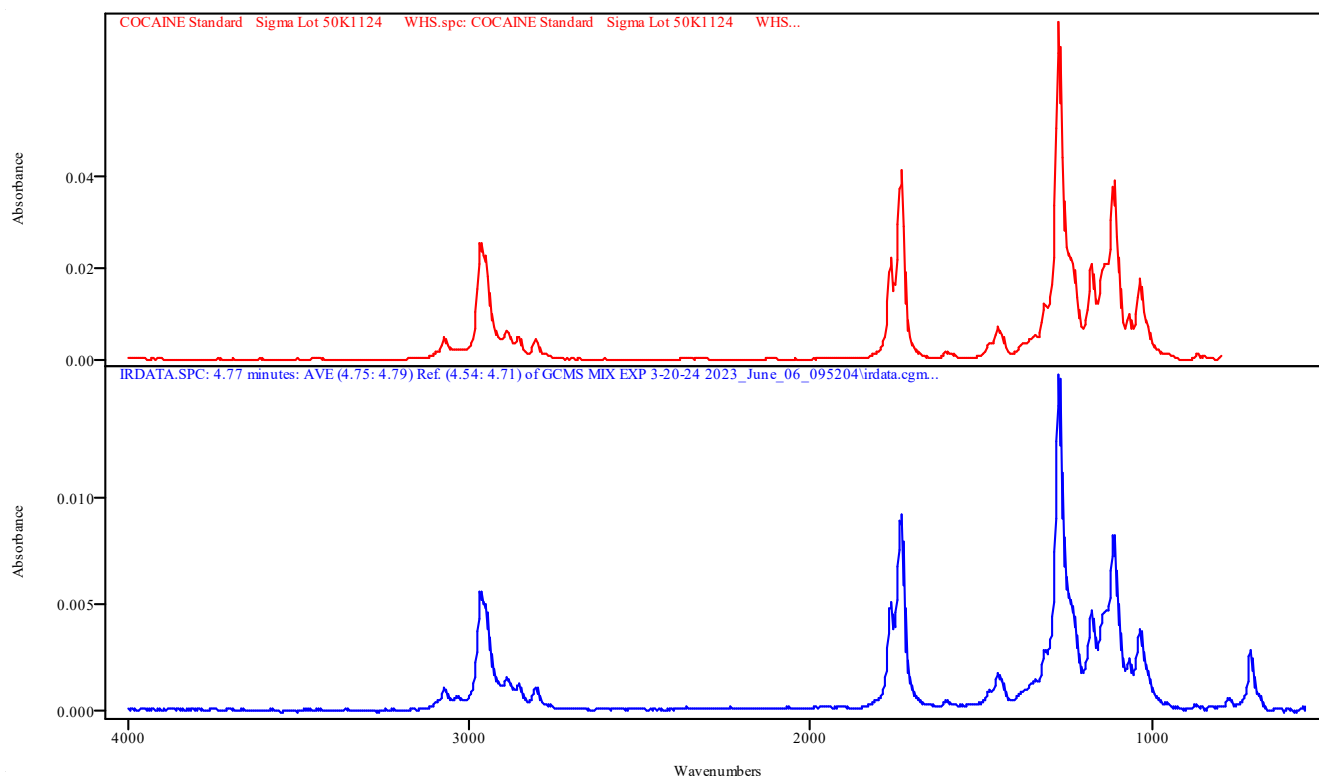


IRDATA.SPC: 2.95 minutes: AVE (2.92: 2.96) Ref. (2.72: 2.90) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE

Metric	Name	Library	Entry
0.998676	PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE	TBI GCIR combined Thermo generated libraries	444: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

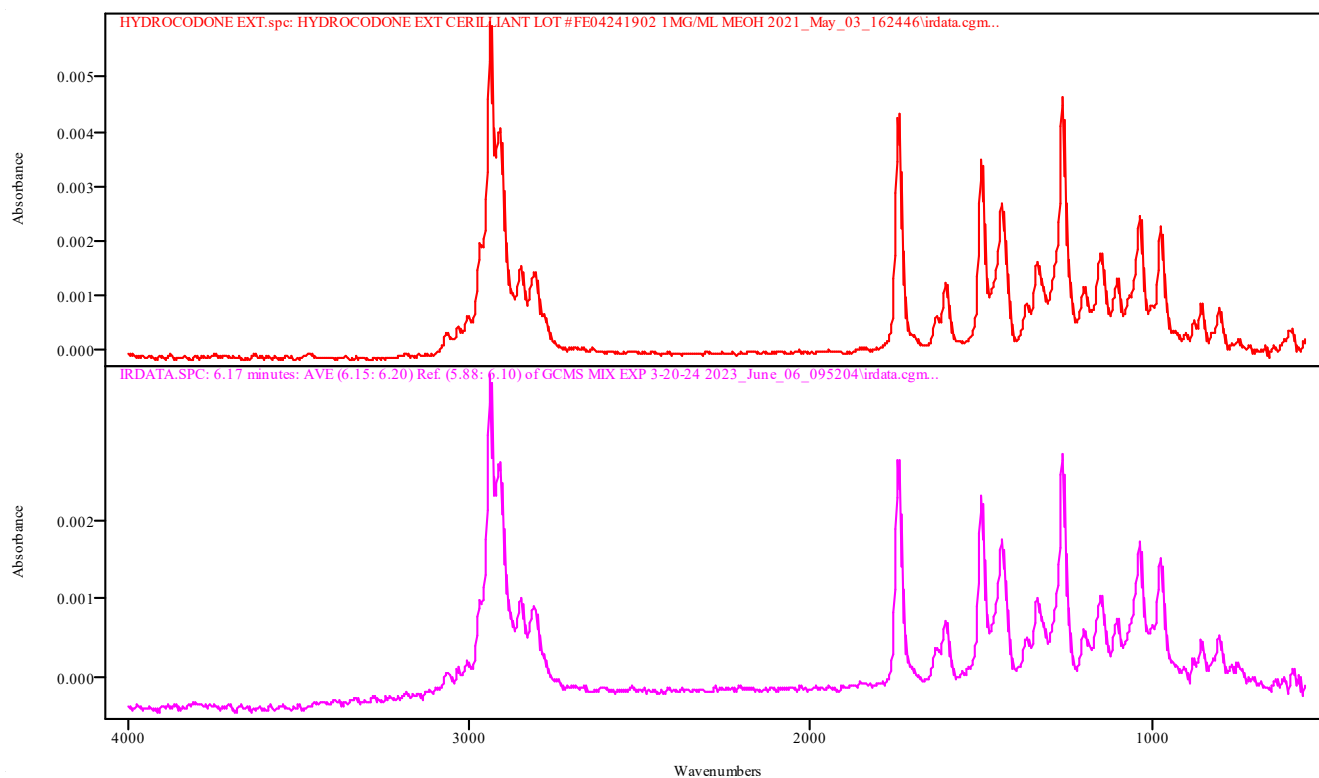


IRDATA.SPC: 4.77 minutes: AVE (4.75: 4.79) Ref. (4.54: 4.71) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.998194	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine , Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023



IRDATA.SPC: 6.17 minutes: AVE (6.15: 6.20) Ref. (5.88: 6.10) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

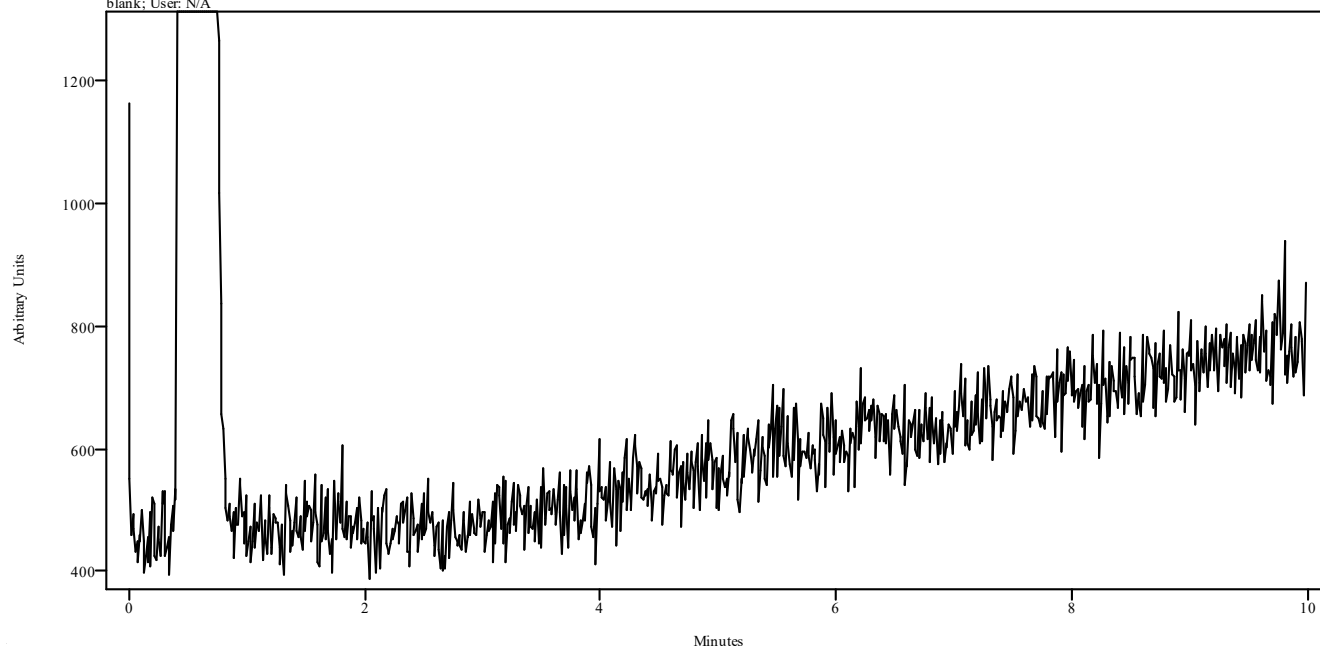
HYDROCODONE EXT.spc: HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm

Metric	Name	Library	Entry
0.987799	HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm	TBI GCIR EXT BH	34: HYDROCODONE EXT.spc

IRD Data Analysis Report

Data Filename	GCMS MIX MB 2023_June_06_093809
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:50:03 2023
Date Processed	Fri Jun 09 13:44:37 2023

irdata.cgm: GCMS MIX MB 2023_June_06_093809\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

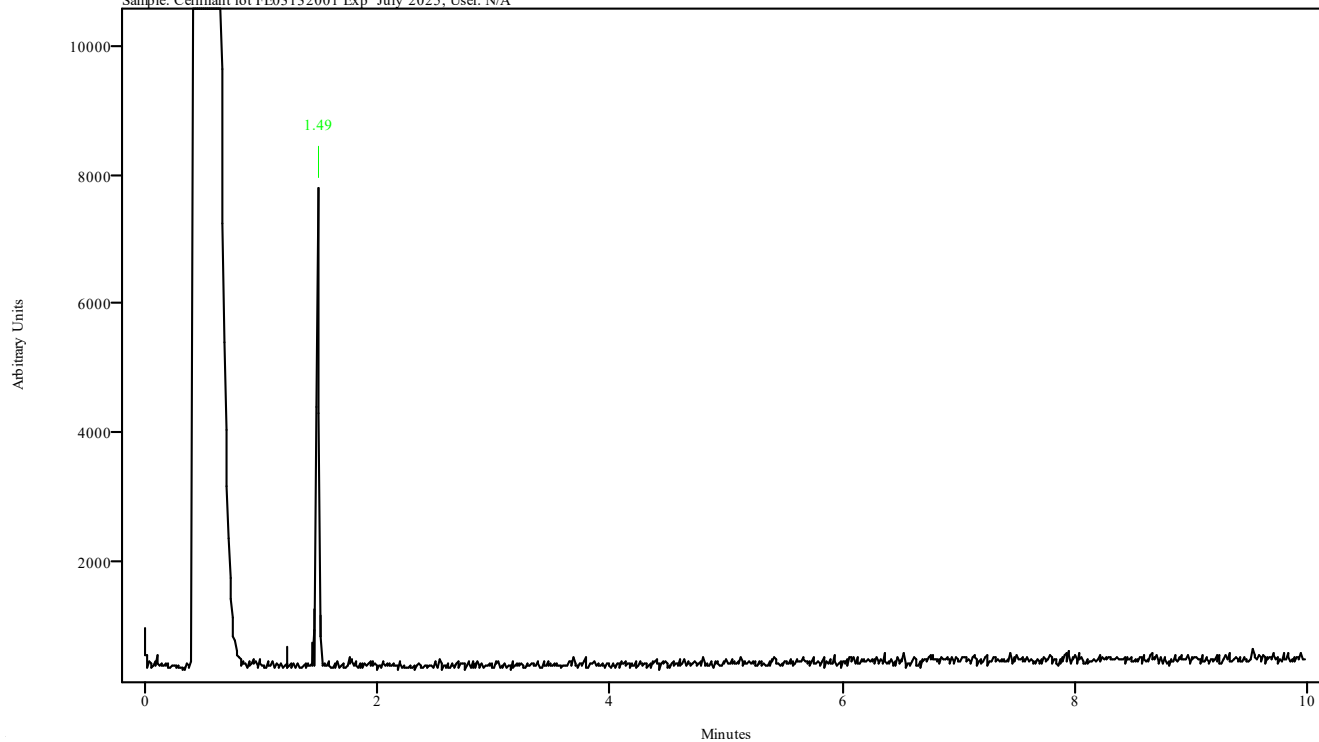


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

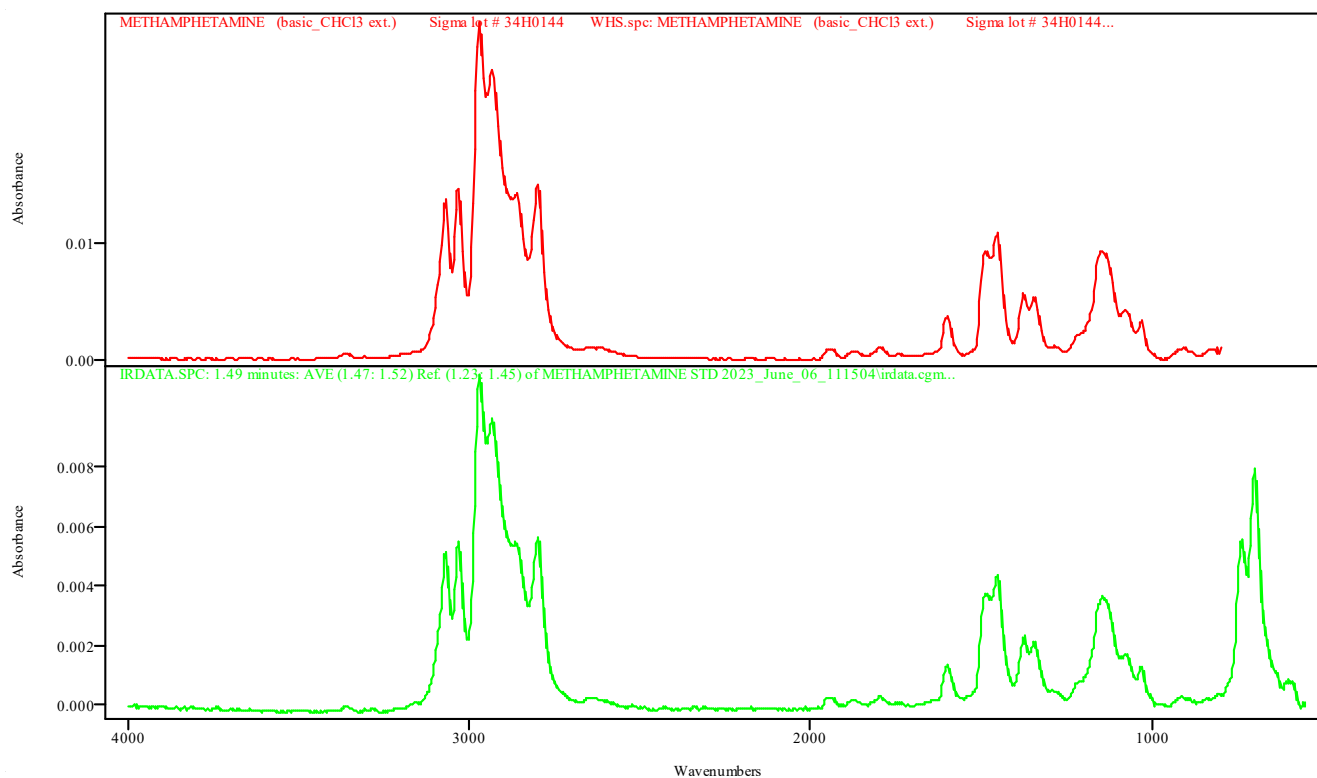
Data Filename	METHAMPHETAMINE STD 2023_June_06_111504
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	8
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:26:52 2023
Date Processed	Mon Jun 12 07:22:28 2023

irdata.cgm: METHAMPHETAMINE STD 2023_June_06_111504\irdata.cgm : Misc. Info: Acetonitrile:Curie;
Sample: Cerilliant lot FE03132001 Exp July 2025; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
1.471	1.516	0.045	1.226	1.449

Data Filename	METHAMPHETAMINE STD 2023_June_06_111504
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	8
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:26:52 2023
Date Processed	Mon Jun 12 07:22:28 2023



IRDATA.SPC: 1.49 minutes: AVE (1.47: 1.52) Ref. (1.23: 1.45) of METHAMPHETAMINE STD 2023_June_06_111504.cgm

METHAMPHETAMINE (basic_CHCl3 ext.)
METHAMPHETAMINE (basic_CHCl3 ext.)

Sigma lot # 34H0144
Sigma lot # 34H0144

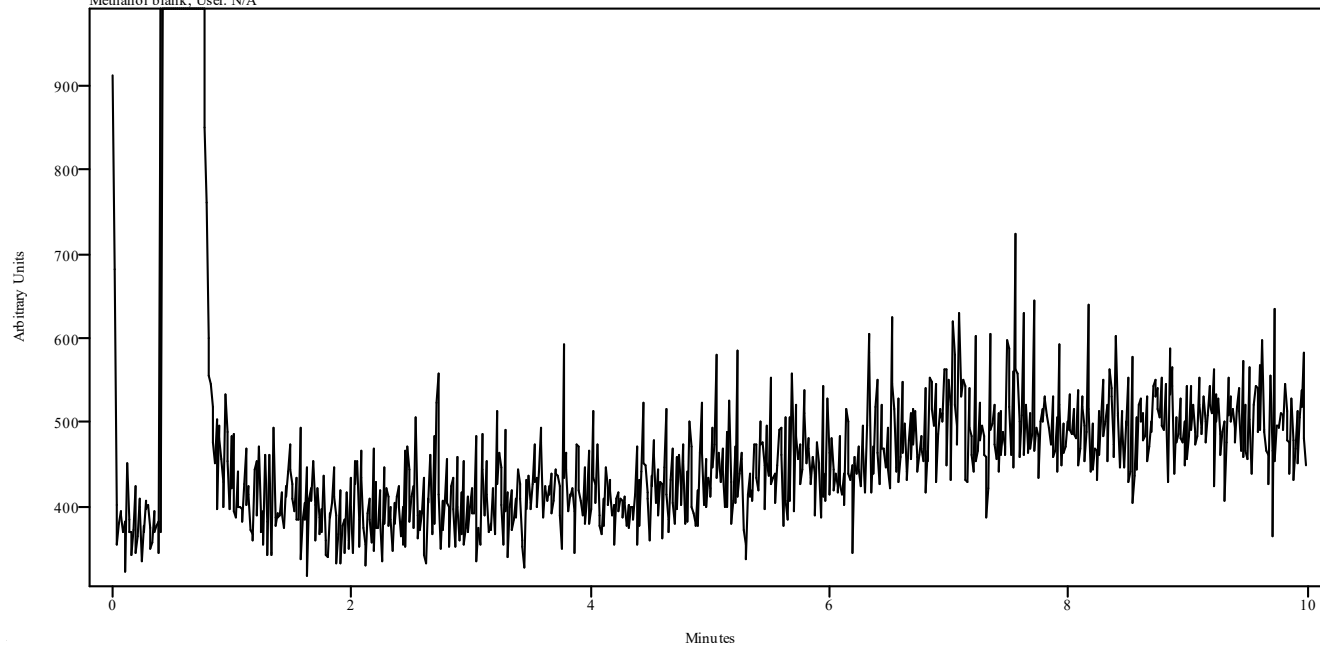
WHS.spc:
WHS

Metric	Name	Library	Entry
0.998409	METHAMPHETAMINE (basic_CHCl3 ext.) Sigma lot # 34H0144 WHS	TBI GCIR combined Thermo generated libraries	235: METHAMPHETAMIN E (basic_CHCl3 ext.) Sigma lot # 34H0144 WHS.spc

IRD Data Analysis Report

Data Filename	METHAMPHETAMINE MB 2023_June_06_110114
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 11:13:03 2023
Date Processed	Mon Jun 12 07:22:37 2023

irdata.cgm: METHAMPHETAMINE MB 2023_June_06_110114\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

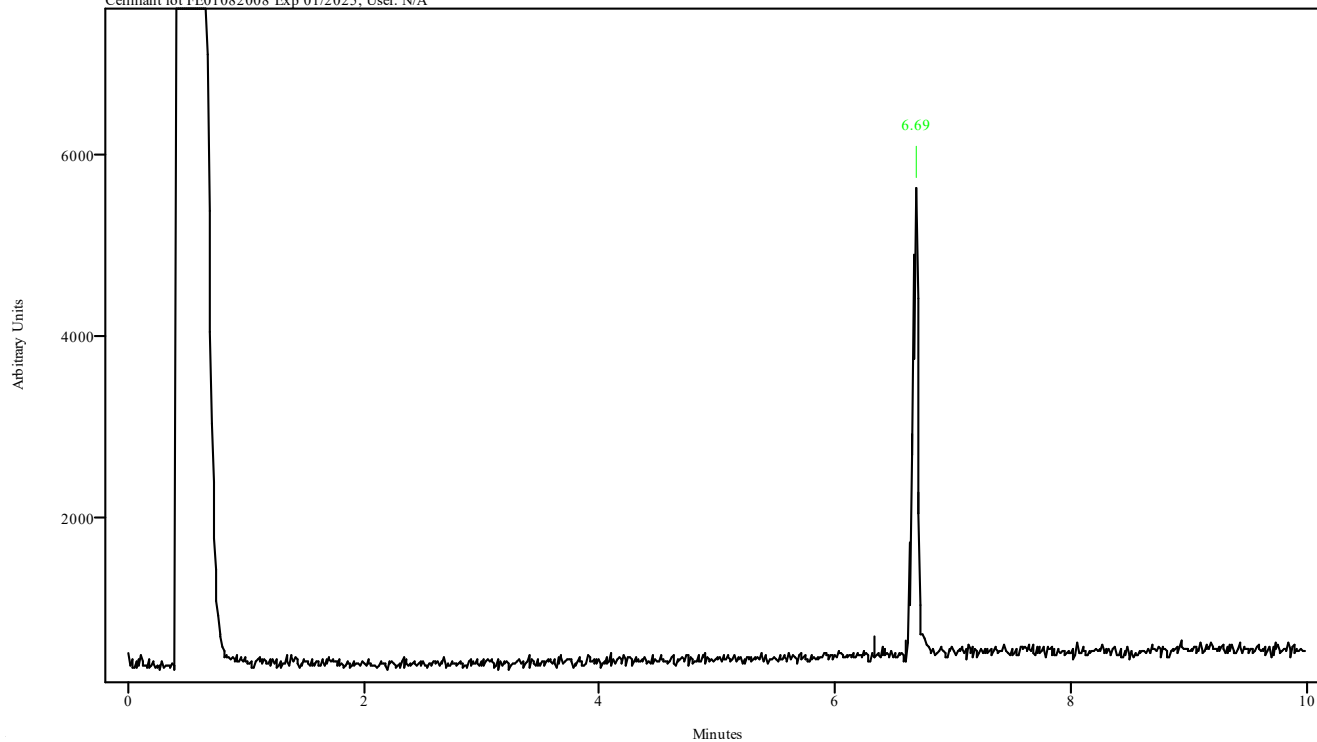


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

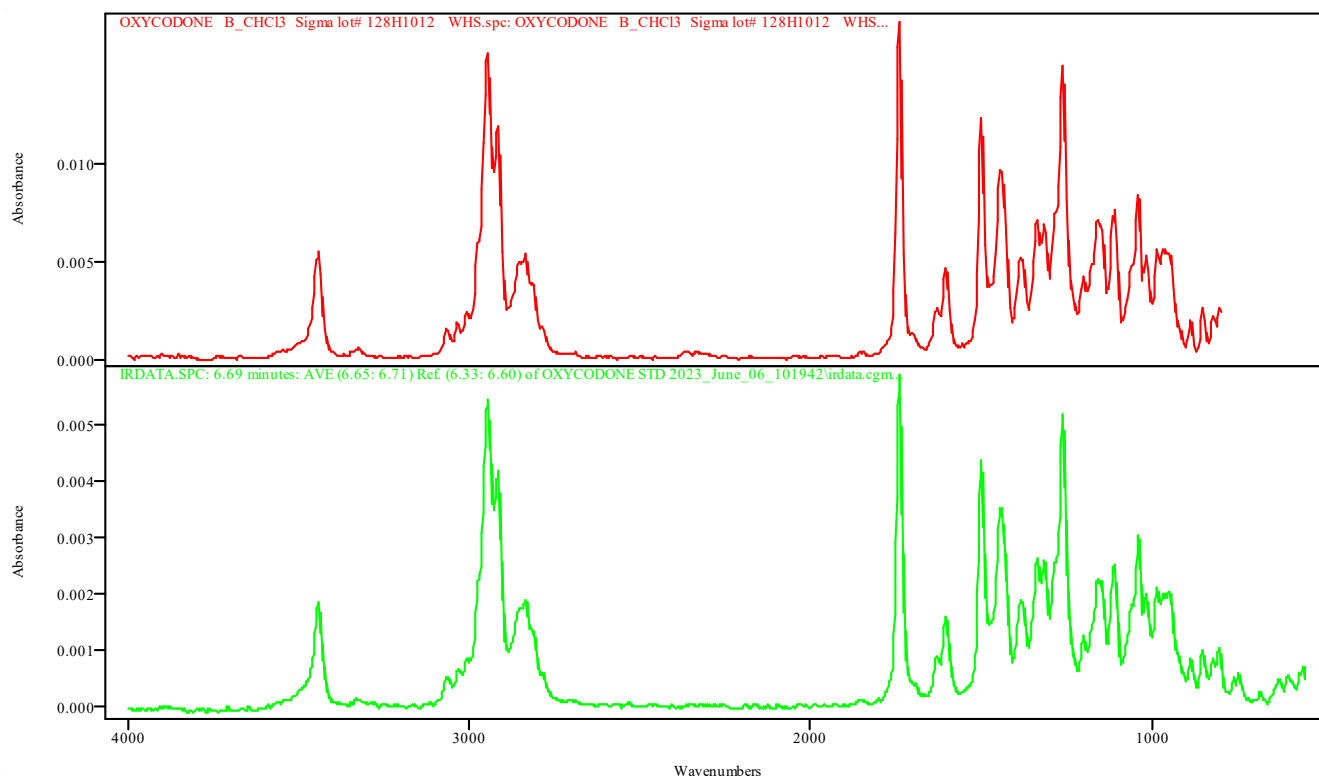
Data Filename	OXYCODONE STD 2023_June_06_101942
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	6
Sample Name	Cerilliant lot FE01082008 Exp 01/2025
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:31:30 2023
Date Processed	Fri Jun 09 14:25:58 2023

irdata.cgm: OXYCODONE STD 2023_June_06_101942\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Cerilliant lot FE01082008 Exp 01/2025; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
6.652	6.708	0.056	6.330	6.597

Data Filename	OXYCODONE STD 2023_June_06_101942
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	6
Sample Name	Cerilliant lot FE01082008 Exp 01/2025
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:31:30 2023
Date Processed	Fri Jun 09 14:25:58 2023



IRDATA.SPC: 6.69 minutes: AVE (6.65: 6.71) Ref. (6.33: 6.60) of OXYCODONE STD 2023_June_06_101942.cgm

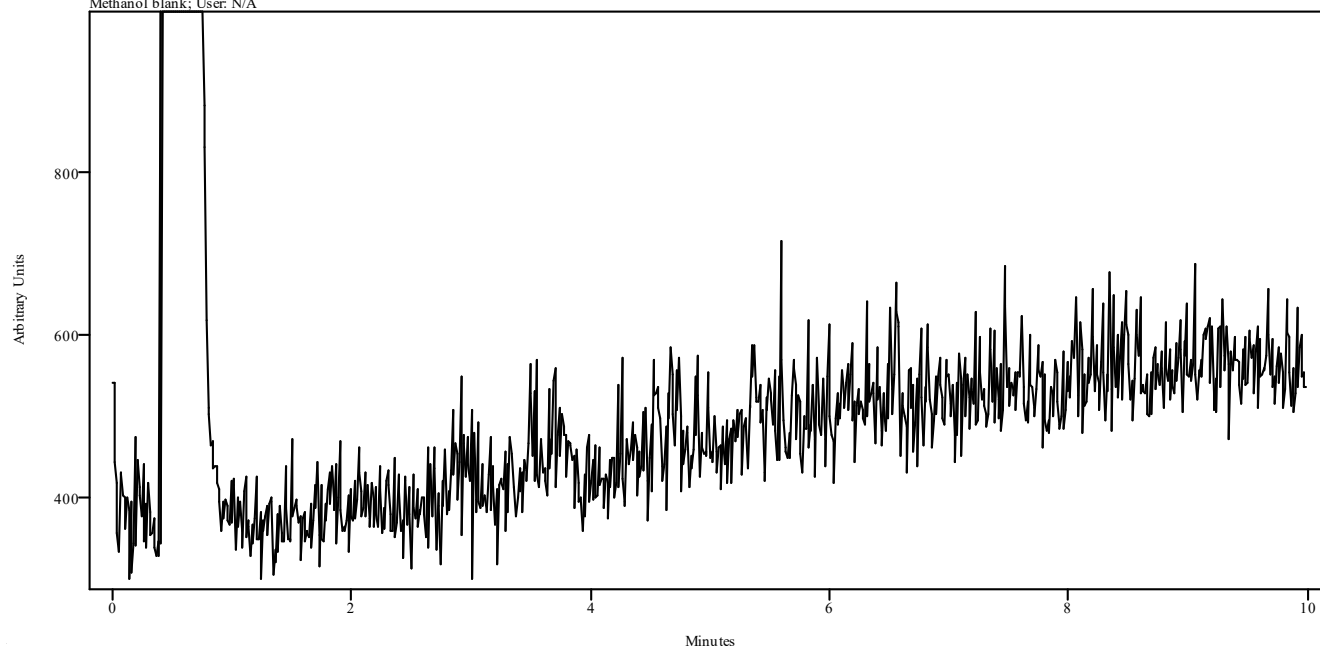
OXYCODONE B_CHCl3 Sigma lot# 128H1012 WHS.spc: OXYCODONE B_CHCl3 Sigma lot# 128H1012 WHS

Metric	Name	Library	Entry
0.996030	OXYCODONE B_CHCl3 Sigma lot# 128H1012 WHS	TBI GCIR combined Thermo generated libraries	135: OXYCODONE B_CHCl3 Sigma lot# 128H1012 WHS.spc

IRD Data Analysis Report

Data Filename	OXYCODONE MB 2023_June_06_100551
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:17:41 2023
Date Processed	Fri Jun 09 14:26:55 2023

irdata.cgm: OXYCODONE MB 2023_June_06_100551\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

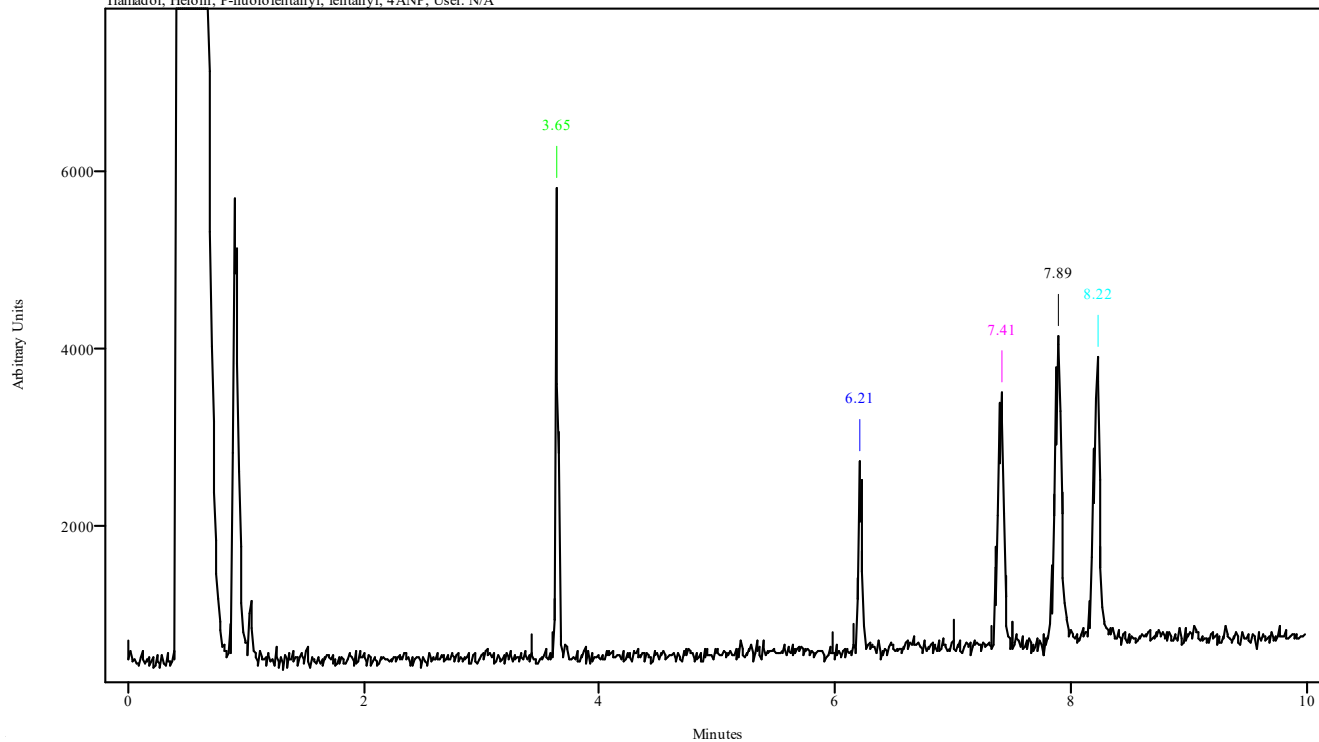


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

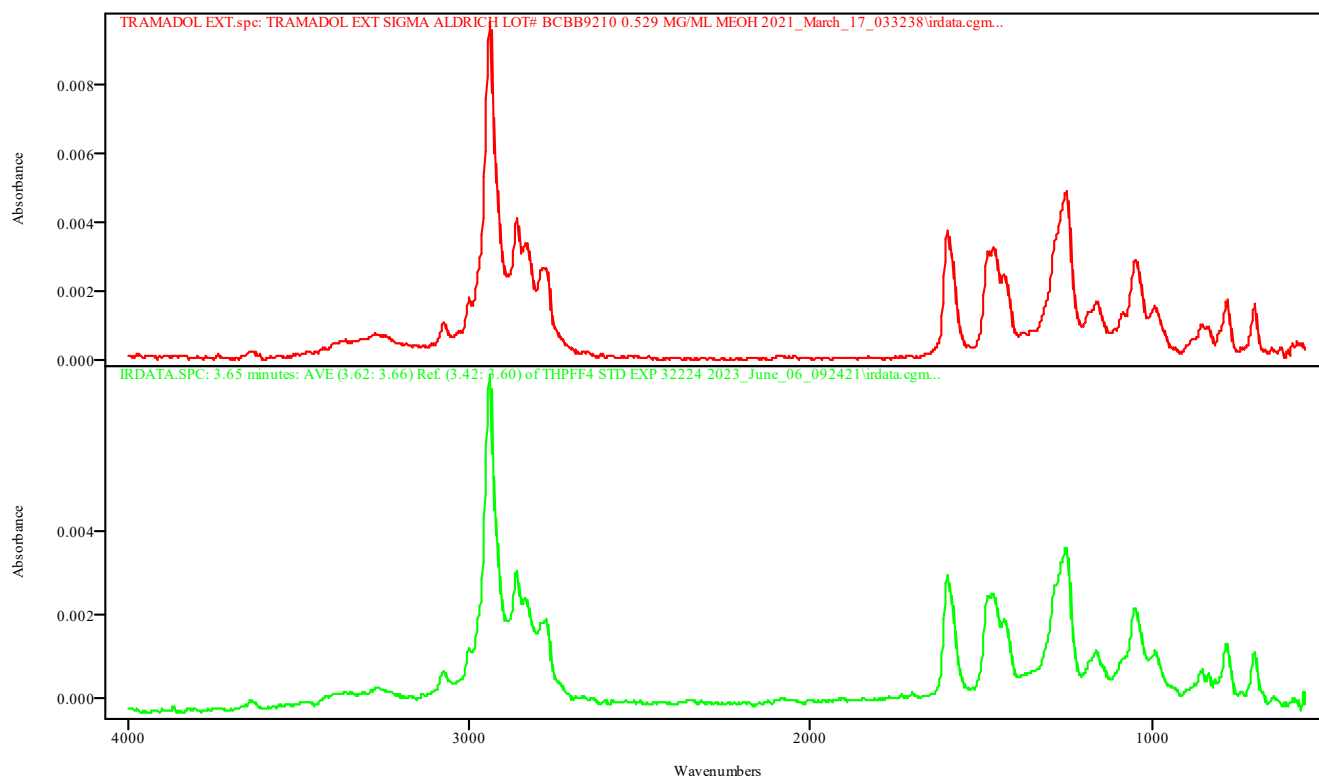
Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023

irdata.cgm: THPFF4 STD EXP 32224 2023_June_06_092421\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.623	3.656	0.033	3.423	3.601
6.190	6.234	0.044	5.979	6.157
7.368	7.446	0.078	7.012	7.324
7.857	7.924	0.067	7.501	7.768
8.190	8.257	0.067	7.501	7.768

Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023

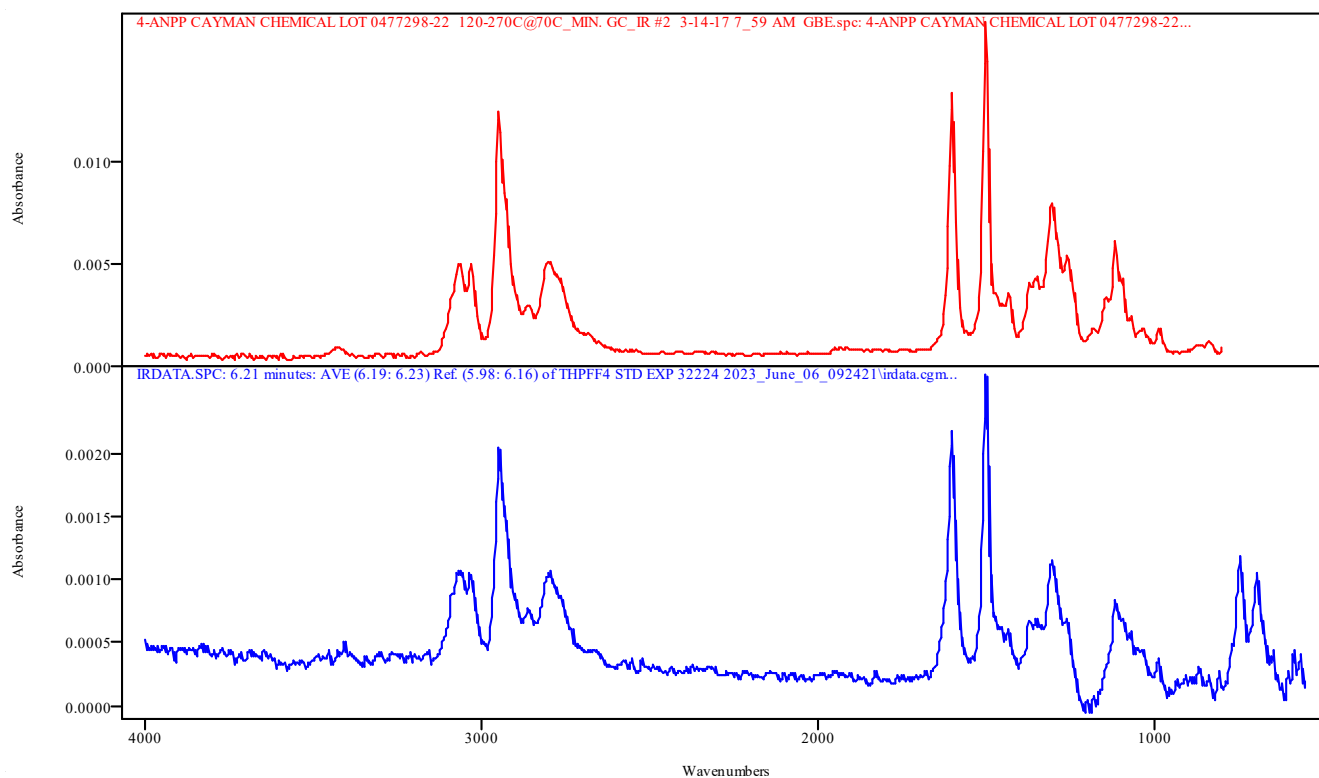


IRDATA.SPC: 3.65 minutes: AVE (3.62: 3.66) Ref. (3.42: 3.60) of THPFF4 STD EXP 32224 2023_June_06_092421.cgm

TRAMADOL EXT.spc: TRAMADOL EXT SIGMA ALDRICH LOT# BCB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm

Metric	Name	Library	Entry
0.993372	TRAMADOL EXT SIGMA ALDRICH LOT# BCB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm	TBI GCIR EXT BH	61: TRAMADOL EXT.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023

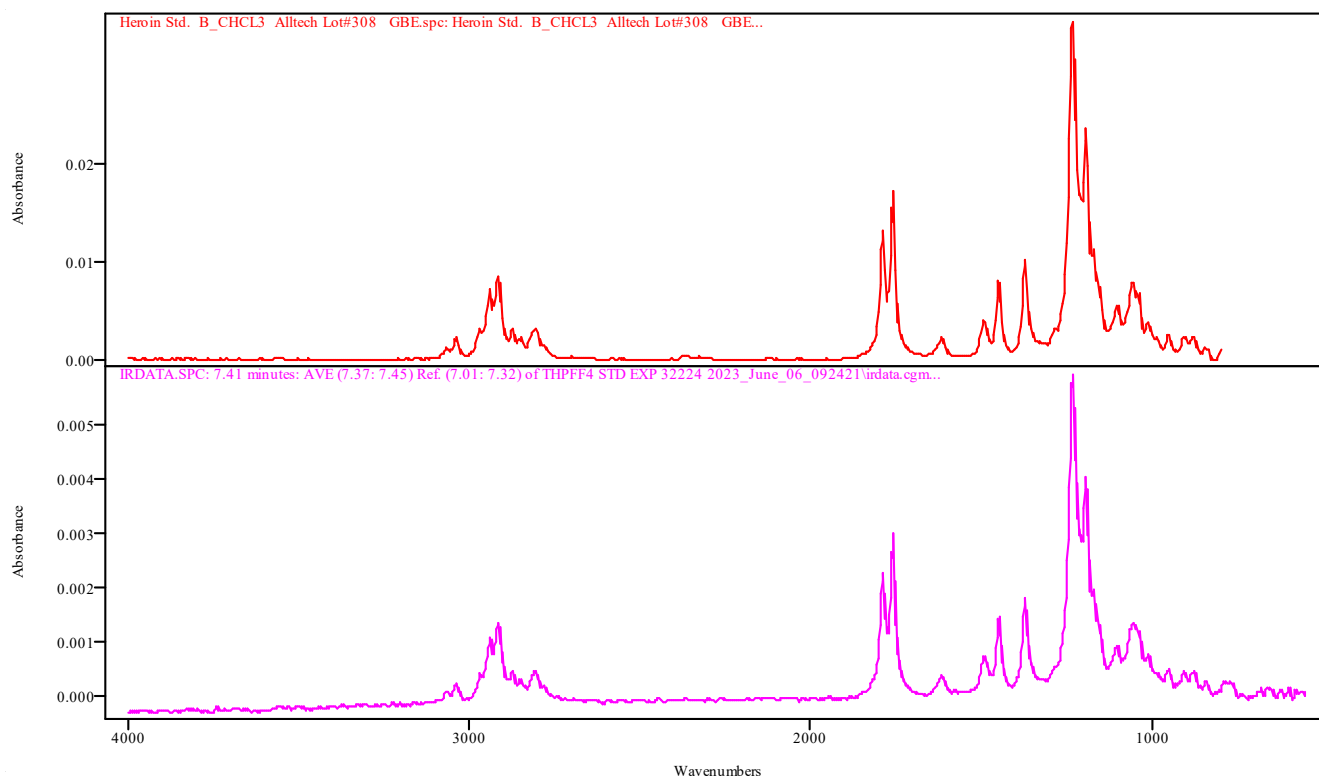


IRDATA.SPC: 6.21 minutes: AVE (6.19: 6.23) Ref. (5.98: 6.16) of THPFF4 STD EXP 32224 2023_June_06_092421.cgm

4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE.spc: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE

Metric	Name	Library	Entry
0.912531	4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE	TBI GCIR combined Thermo generated libraries	355: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN . GC_IR #2 3-14-17 7_59 AM GBE.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023

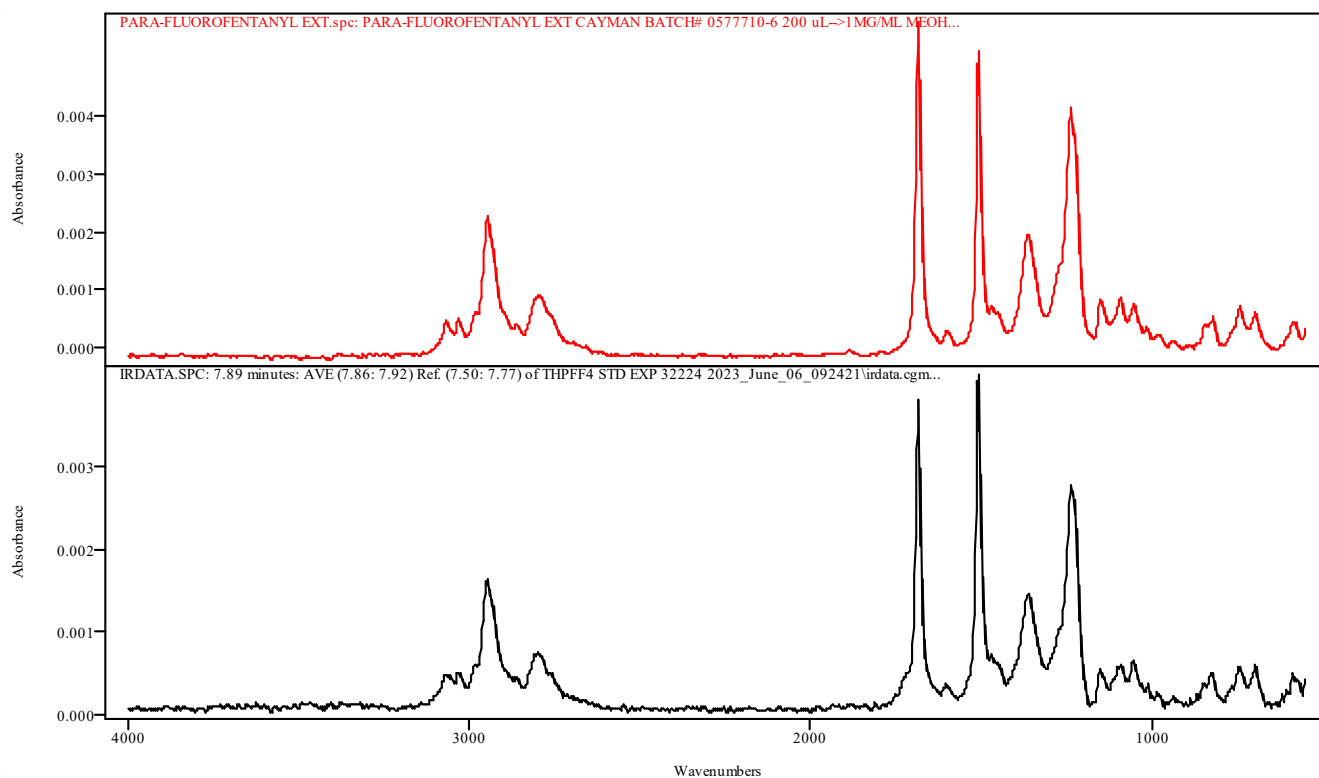


IRDATA.SPC: 7.41 minutes: AVE (7.37: 7.45) Ref. (7.01: 7.32) of THPFF4 STD EXP 32224 2023_June_06_092421.cgm

Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc: Heroin Std. B_CHCL3 Alltech Lot#308 GBE

Metric	Name	Library	Entry
0.989842	Heroin Std. B_CHCL3 Alltech Lot#308 GBE	TBI GCIR combined Thermo generated libraries	245: Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023

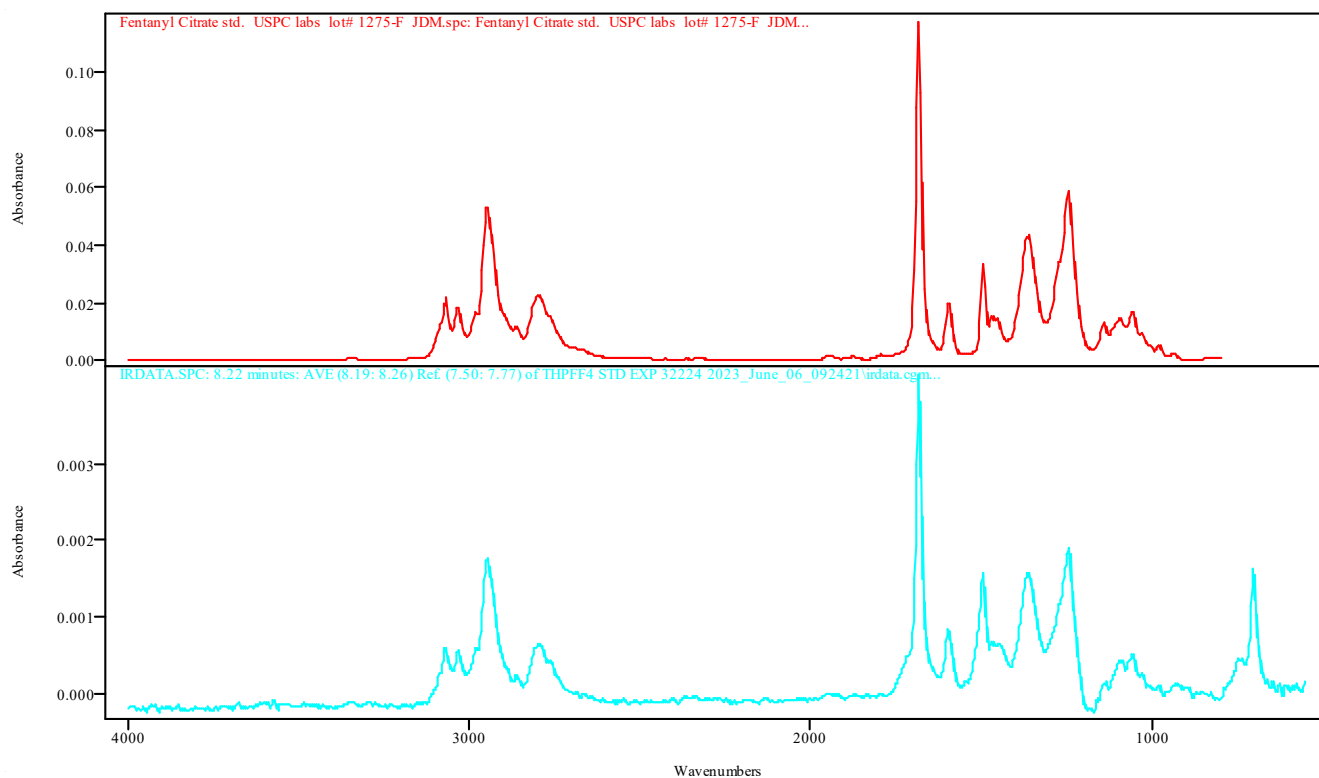


IRDATA.SPC: 7.89 minutes: AVE (7.86: 7.92) Ref. (7.50: 7.77) of THPFF4 STD EXP 32224 2023_June_06_092421.cgm

PARA-FLUOROFENTANYL EXT.spc: PARA-FLUOROFENTANYL EXT CAYMAN BATCH# 0577710-6 200 uL-->1MG/ML MEOH 2021_April_19_233049\irdata.cgm

Metric	Name	Library	Entry
0.989131	PARA-FLUOROFENTANYL EXT CAYMAN BATCH# 0577710-6 200 uL-->1MG/ML MEOH 2021_April_19_233049\irdata.cgm	TBI GCIR EXT BH	52: PARA-FLUOROFENTANYL EXT.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_06_092421
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:36:08 2023
Date Processed	Fri Jun 09 13:36:44 2023



IRDATA.SPC: 8.22 minutes: AVE (8.19: 8.26) Ref. (7.50: 7.77) of THPFF4 STD EXP 32224 2023_June_06_092421.cgm

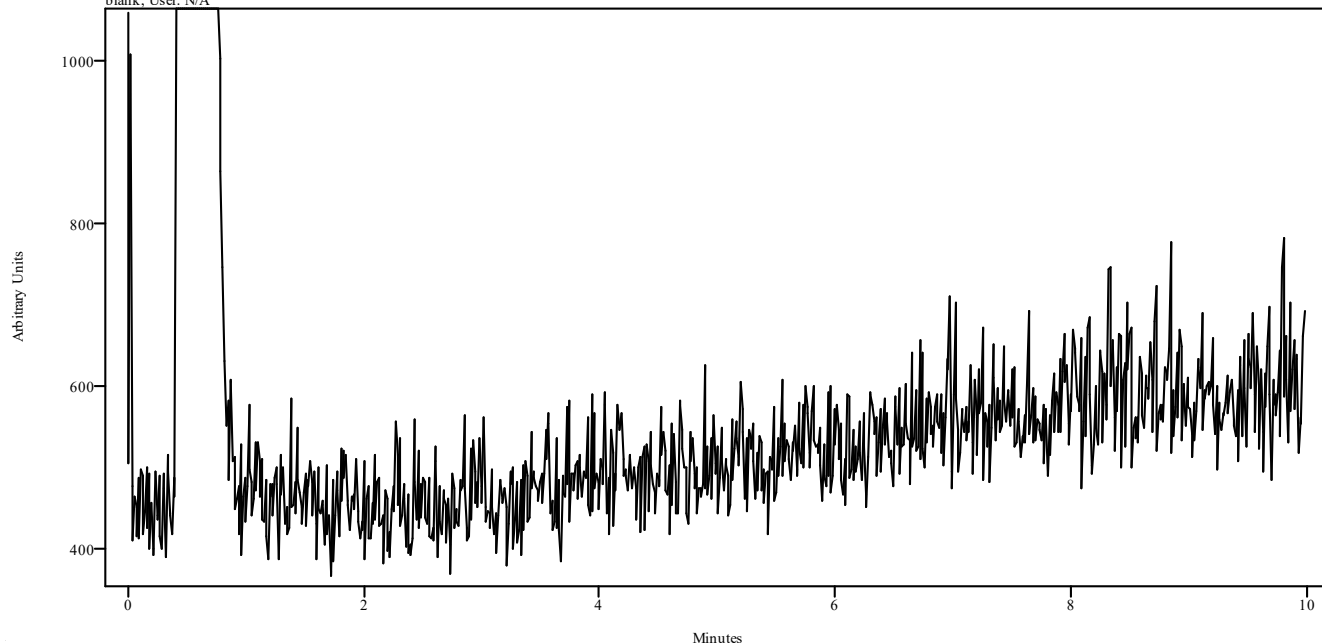
Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc: Fentanyl Citrate std. USPC labs lot# 1275-F JDM

Metric	Name	Library	Entry
0.968635	Fentanyl Citrate std. USPC labs lot# 1275-F JDM	TBI GCIR combined Thermo generated libraries	182: Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc

IRD Data Analysis Report

Data Filename	THPFF4 MB 2023_June_06_091025
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 09:22:20 2023
Date Processed	Fri Jun 09 13:33:08 2023

irdata.cgm: THPFF4 MB 2023_June_06_091025\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

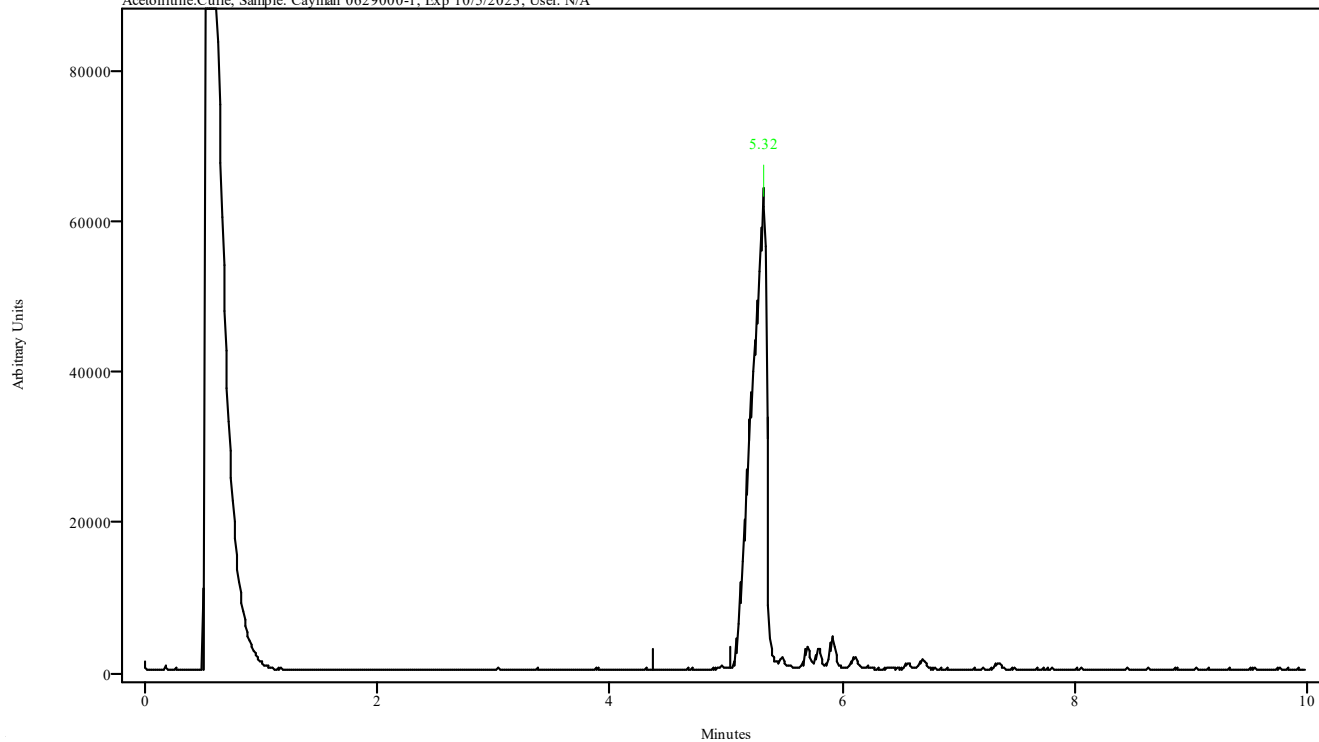


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

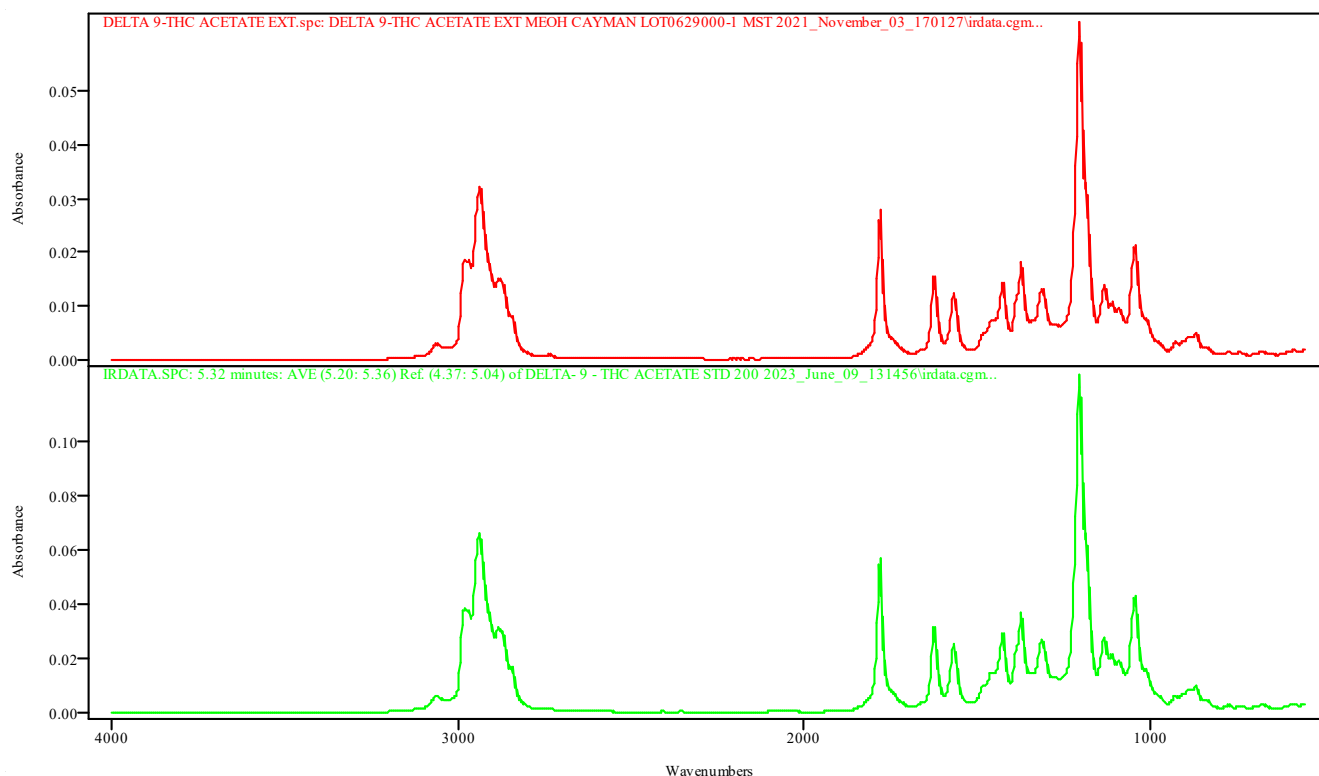
Data Filename	DELTA- 9 - THC ACETATE STD 200 2023_June_09_131456
Data Path	X:/CURIE 2023/LJ/06-09-23
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	7
Sample Name	Cayman 0629000-1, Exp 10/5/2023
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Fri Jun 09 13:25:55 2023
Date Processed	Mon Jun 12 08:29:24 2023

irdata.cgm: DELTA- 9 - THC ACETATE STD 200 2023_June_09_131456
irdata.cgm : Misc. Info: Acetonitrile:Curie; Sample: Cayman 0629000-1, Exp 10/5/2023; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
5.200	5.357	0.157	4.372	5.043

Data Filename	DELTA- 9 - THC ACETATE STD 200 2023_June_09_131456
Data Path	X:/CURIE 2023/LJ/06-09-23
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	7
Sample Name	Cayman 0629000-1, Exp 10/5/2023
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Fri Jun 09 13:25:55 2023
Date Processed	Mon Jun 12 08:29:24 2023



IRDATA.SPC: 5.32 minutes: AVE (5.20: 5.36) Ref. (4.37: 5.04) of DELTA- 9 - THC ACETATE STD 200 2023_June_09_131456.cgm

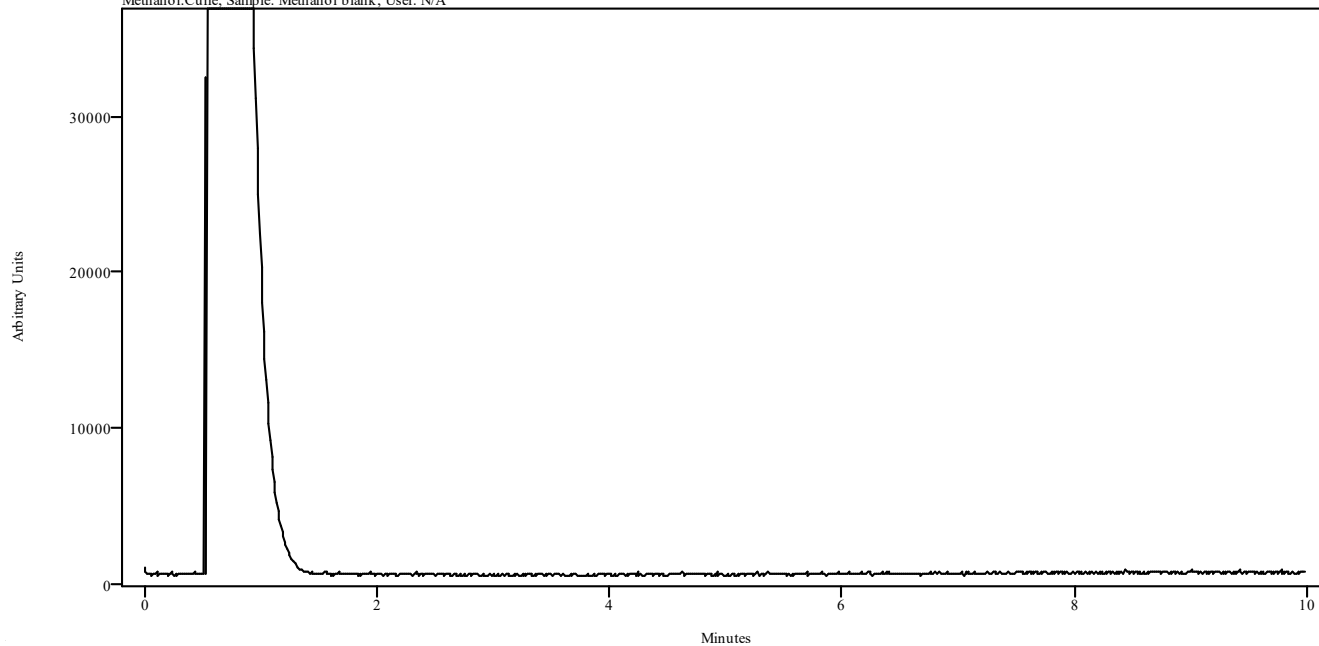
DELTA 9-THC ACETATE EXT.spc: DELTA 9-THC ACETATE EXT MEOH CAYMAN LOT0629000-1 MST 2021_November_03_170127\irdata.cgm

Metric	Name	Library	Entry
0.999630	DELTA 9-THC ACETATE EXT MEOH CAYMAN LOT0629000-1 MST 2021_November_03_170127\irdata.cgm	TBI GCIR EXT BH	21: DELTA 9-THC ACETATE EXT.spc

IRD Data Analysis Report

Data Filename	DELTA- 9 - THC ACETATE MB 200 2023_June_09_130137
Data Path	X:/CURIE 2023/LJ/06-09-23
IRD Method	IRD3 EXT
GC Method	200TO270
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Fri Jun 09 13:12:57 2023
Date Processed	Mon Jun 12 08:29:18 2023

irdata.cgm: DELTA- 9 - THC ACETATE MB 200 2023_June_09_130137\irdata.cgm : Misc. Info:
Methanol:Curie; Sample: Methanol blank; User: N/A

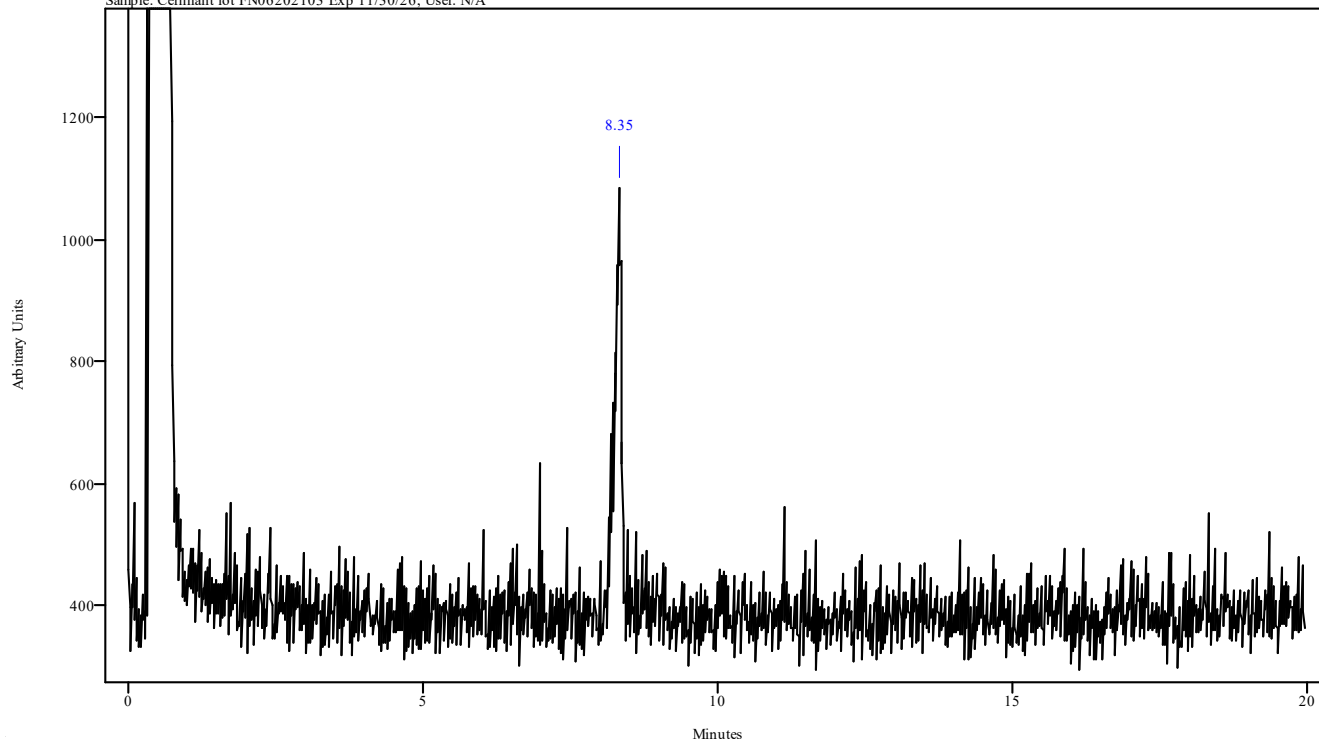


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

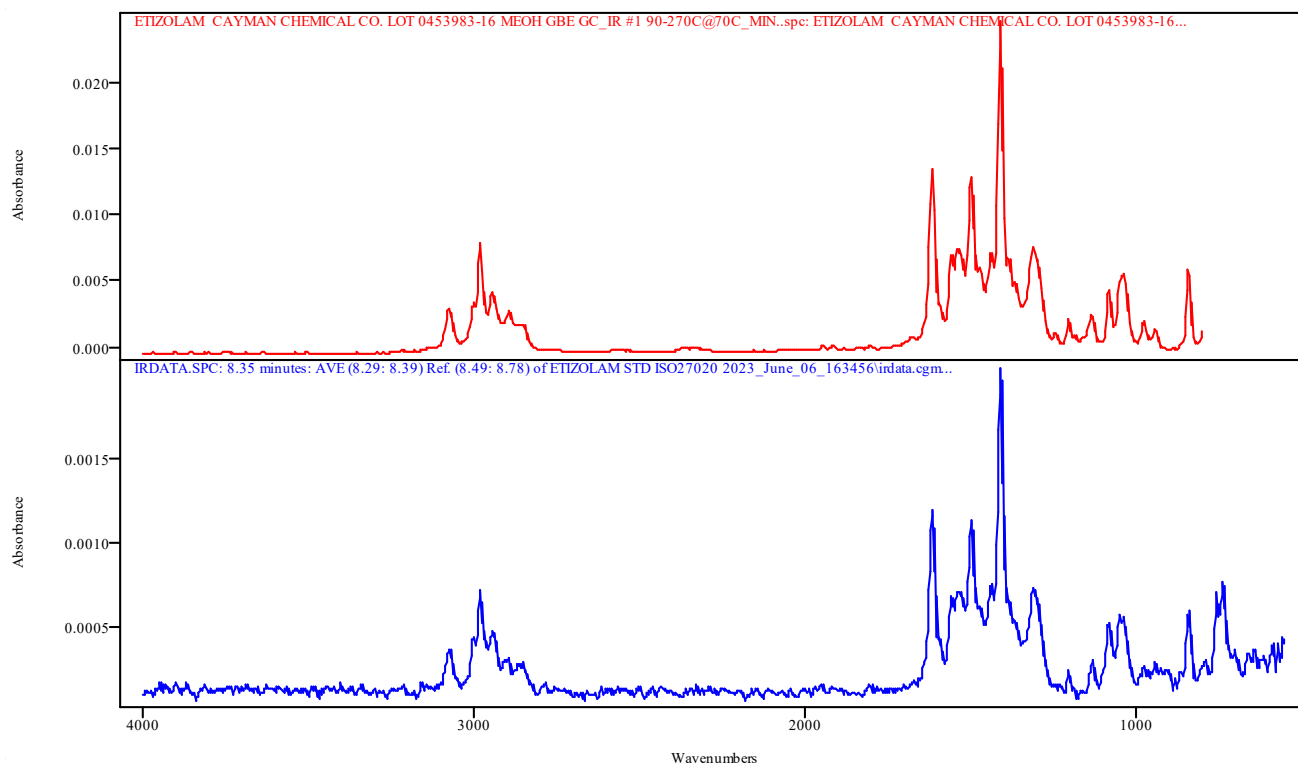
Data Filename	ETIZOLAM STD ISO27020 2023_June_06_163456
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	12
Sample Name	Cerilliant lot FN06202103 Exp 11/30/26
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 16:55:29 2023
Date Processed	Fri Jun 09 14:17:20 2023

irdata.cgm: ETIZOLAM STD ISO27020 2023_June_06_163456\irdata.cgm : Misc. Info: Acetonitrile:Curie;
Sample: Cerilliant lot FN06202103 Exp 11/30/26; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
8.288	8.388	0.100	8.493	8.781

Data Filename	ETIZOLAM STD ISO27020 2023_June_06_163456
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	12
Sample Name	Cerilliant lot FN06202103 Exp 11/30/26
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 16:55:29 2023
Date Processed	Fri Jun 09 14:17:20 2023



IRDATA.SPC: 8.35 minutes: AVE (8.29: 8.39) Ref. (8.49: 8.78) of ETIZOLAM STD ISO27020 2023_June_06_163456.cgm

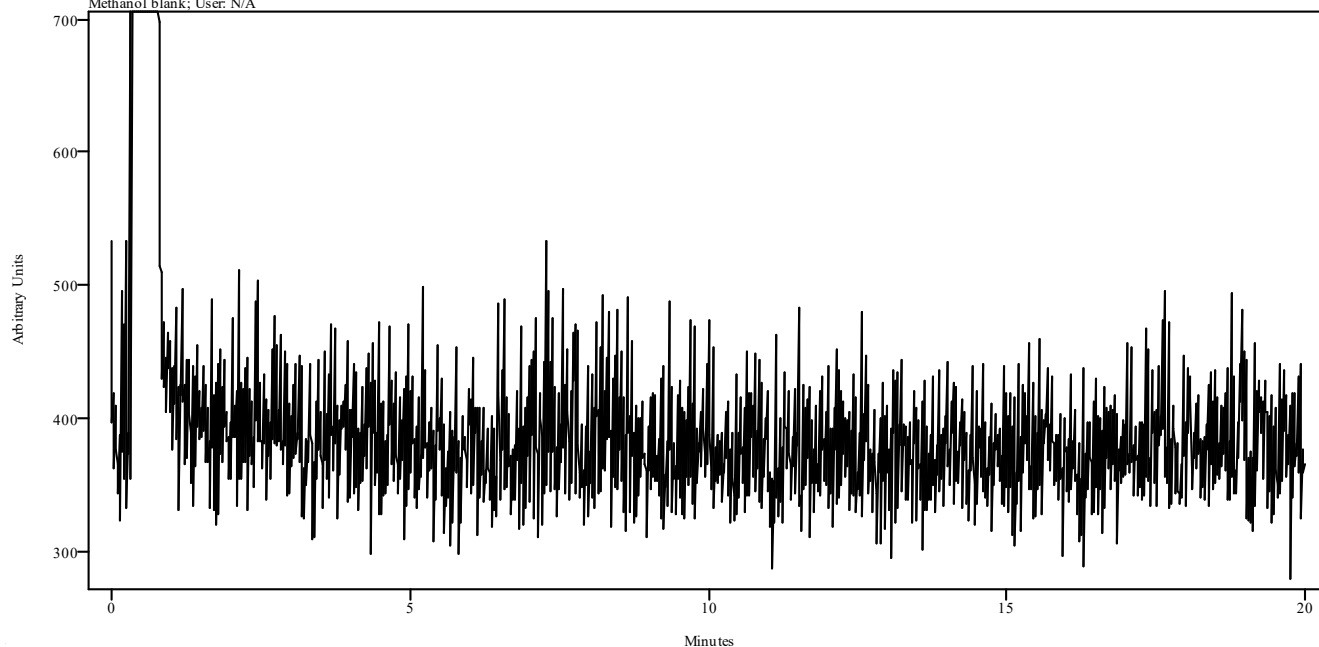
ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN..spc: ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN.

Metric	Name	Library	Entry
0.989288	ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN.	TBI GCIR combined Thermo generated libraries	9: ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN..spc

IRD Data Analysis Report

Data Filename	ETIZOLAM MB ISO27020 2023_June_06_161218
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(20MIN)
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 16:32:55 2023
Date Processed	Fri Jun 09 14:00:42 2023

irdata.cgm: ETIZOLAM MB ISO27020 2023_June_06_161218\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

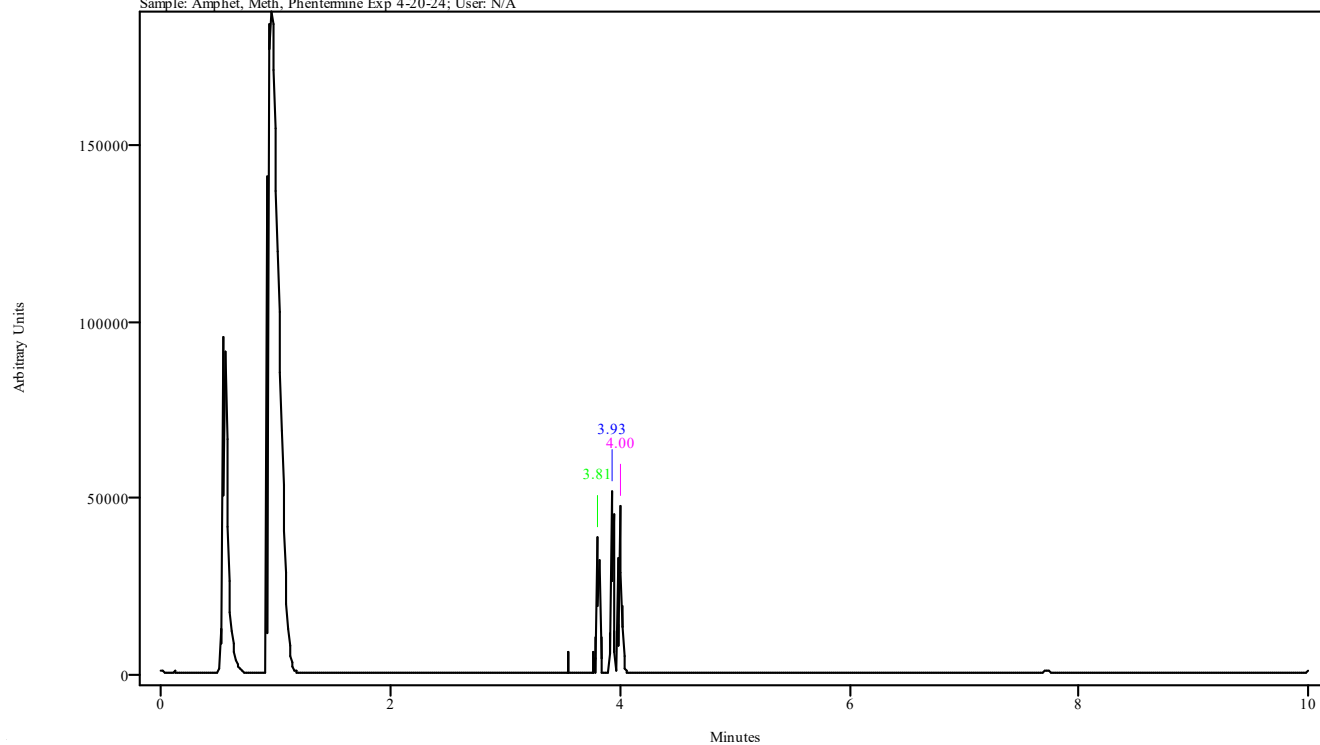


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

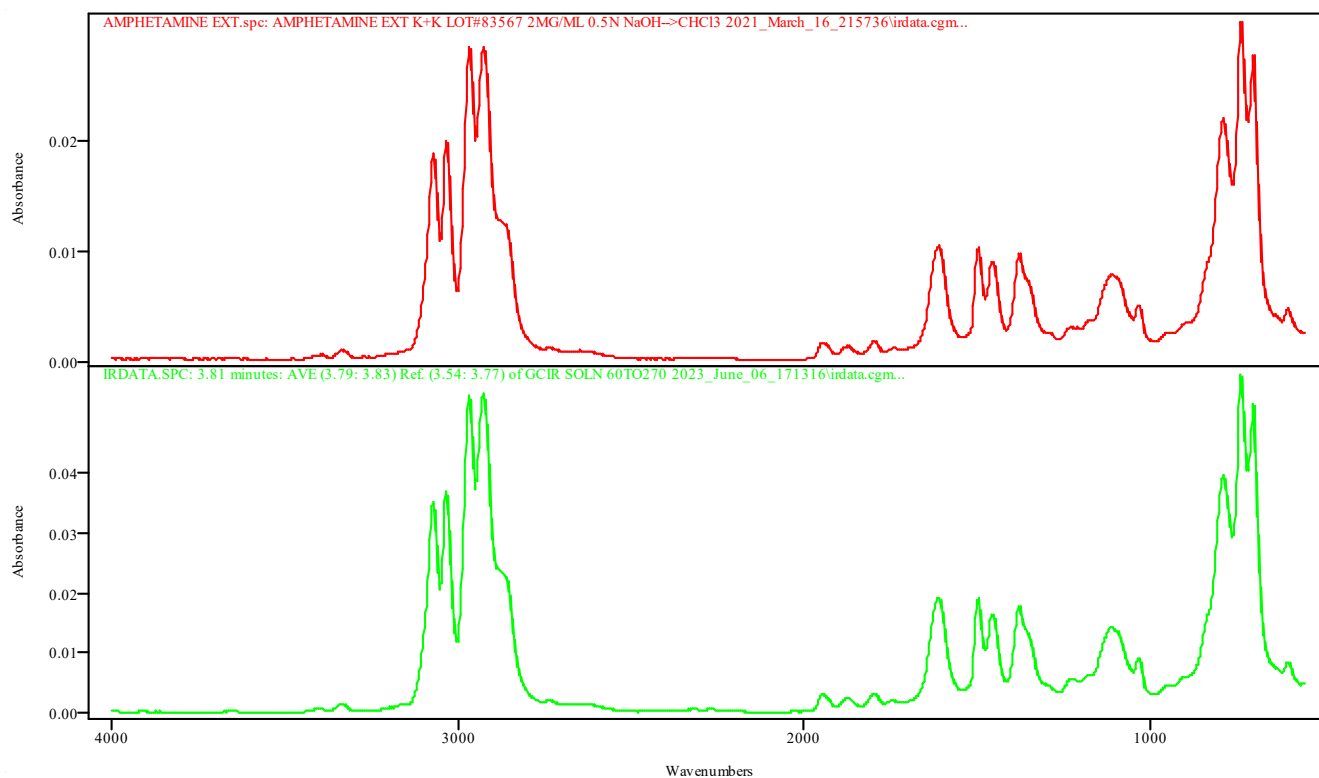
Data Filename	GCIR SOLN 60TO270 2023_June_06_171316
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 17:26:30 2023
Date Processed	Fri Jun 09 13:38:37 2023

irdata.cgm: GCIR SOLN 60TO270 2023_June_06_171316\irdata.cgm : Misc. Info: Bicarb --> CHCl3:Curie;
Sample: Amphet, Meth, Phentermine Exp 4-20-24; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.788	3.832	0.045	3.543	3.765
3.910	3.955	0.045	3.543	3.765
3.977	4.022	0.045	3.543	3.765

Data Filename	GCIR SOLN 60TO270 2023_June_06_171316
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 17:26:30 2023
Date Processed	Fri Jun 09 13:38:37 2023

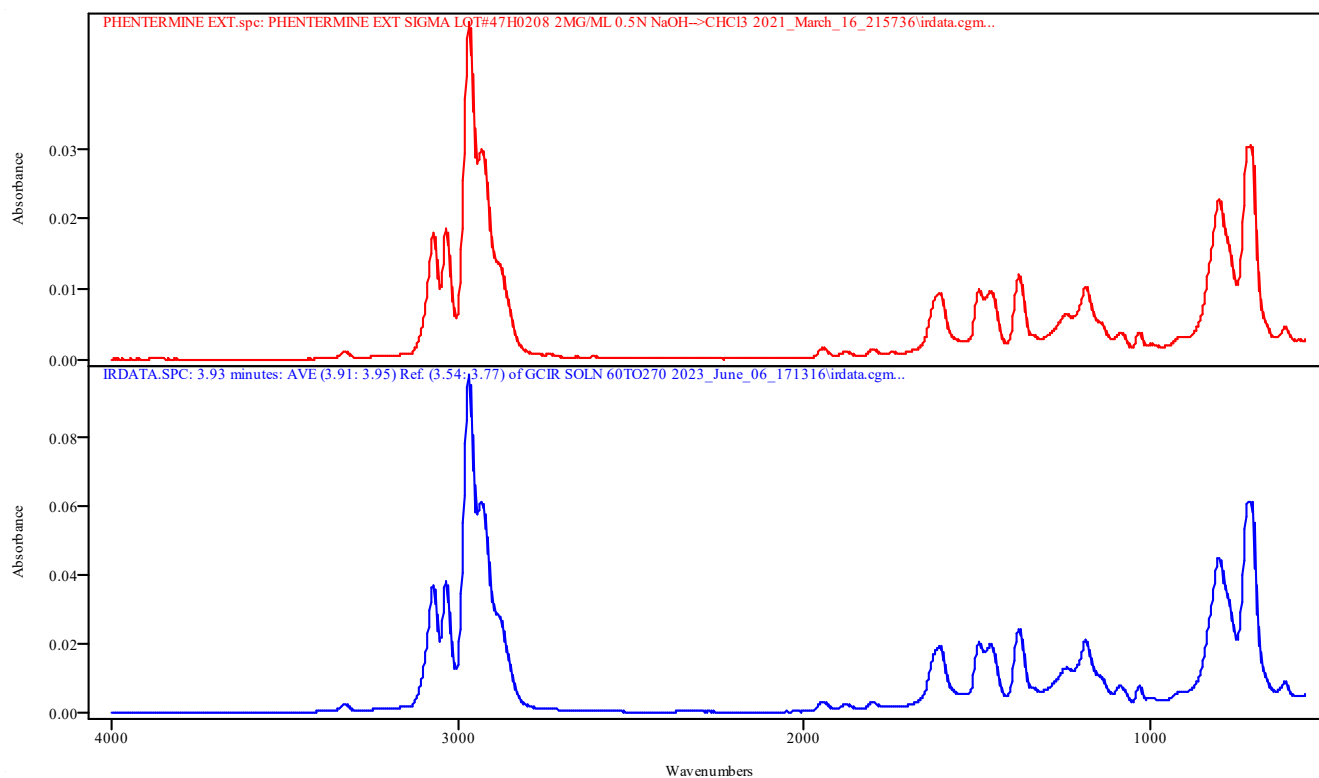


IRDATA.SPC: 3.81 minutes: AVE (3.79: 3.83) Ref. (3.54: 3.77) of GCIR SOLN 60TO270 2023_June_06_171316.cgm

AMPHETAMINE EXT.spc: AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999737	AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	12: AMPHETAMINE EXT.spc

Data Filename	GCIR SOLN 60TO270 2023_June_06_171316
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 17:26:30 2023
Date Processed	Fri Jun 09 13:38:37 2023

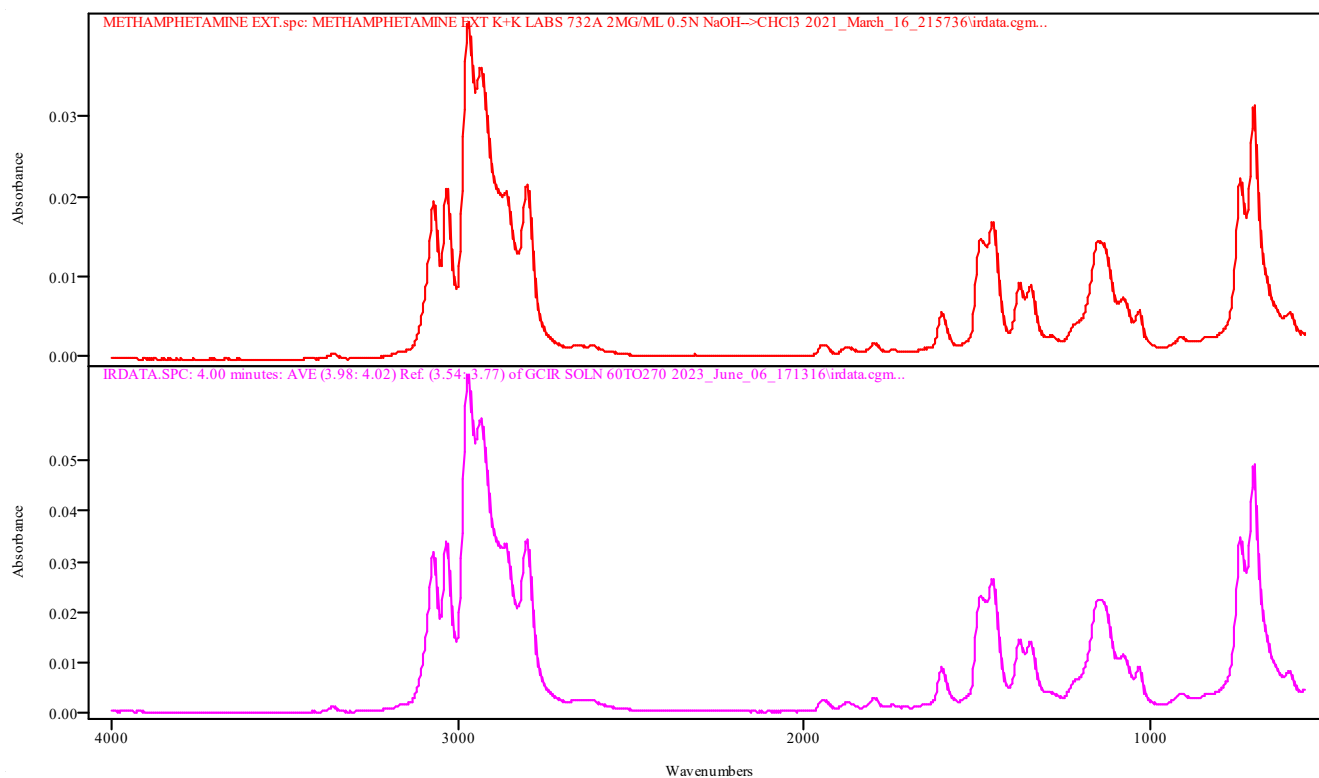


IRDATA.SPC: 3.93 minutes: AVE (3.91: 3.95) Ref. (3.54: 3.77) of GCIR SOLN 60TO270 2023_June_06_171316.cgm

PHENTERMINE EXT.spc: PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999610	PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	55: PHENTERMINE EXT.spc

Data Filename	GCIR SOLN 60TO270 2023_June_06_171316
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 17:26:30 2023
Date Processed	Fri Jun 09 13:38:37 2023



IRDATA.SPC: 4.00 minutes: AVE (3.98: 4.02) Ref. (3.54: 3.77) of GCIR SOLN 60TO270 2023_June_06_171316.cgm

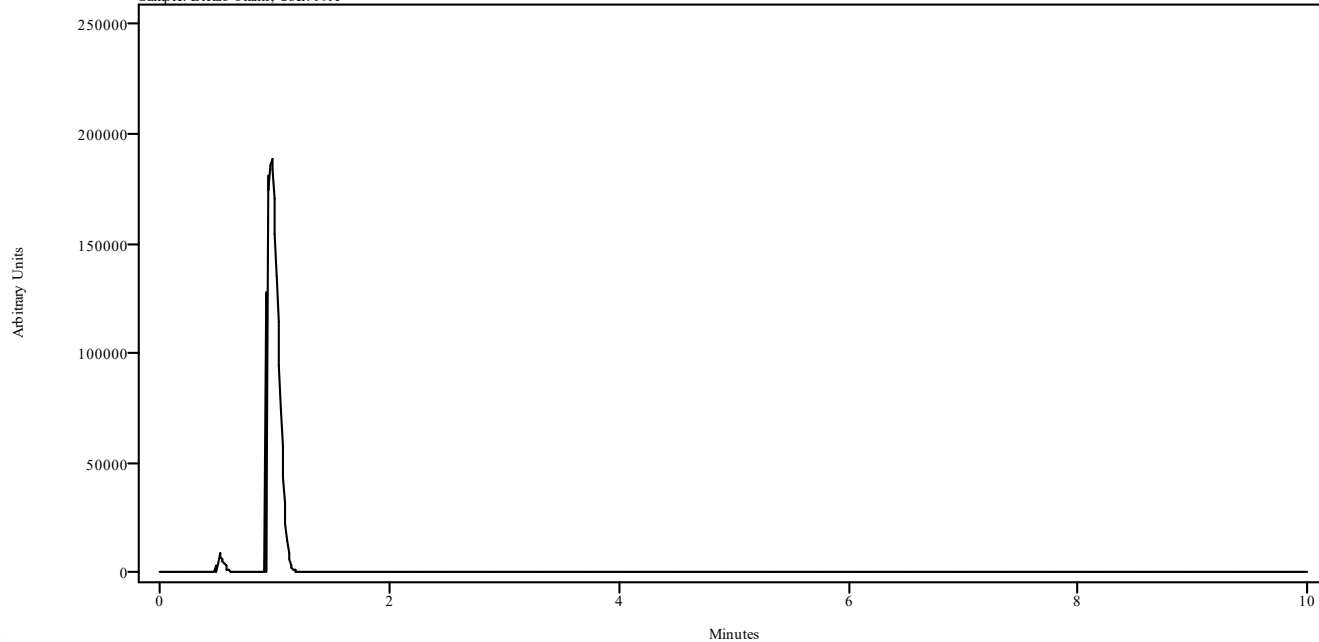
METHAMPHETAMINE EXT.spc: METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999410	METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	40: METHAMPHETAMINE EXT.spc

IRD Data Analysis Report

Data Filename	GCIR SOLN MB 60TO270 2023_June_06_165729
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	60TO270
GC Vial	2
Sample Name	Bicarb blank
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Tue Jun 06 17:11:15 2023
Date Processed	Fri Jun 09 13:38:32 2023

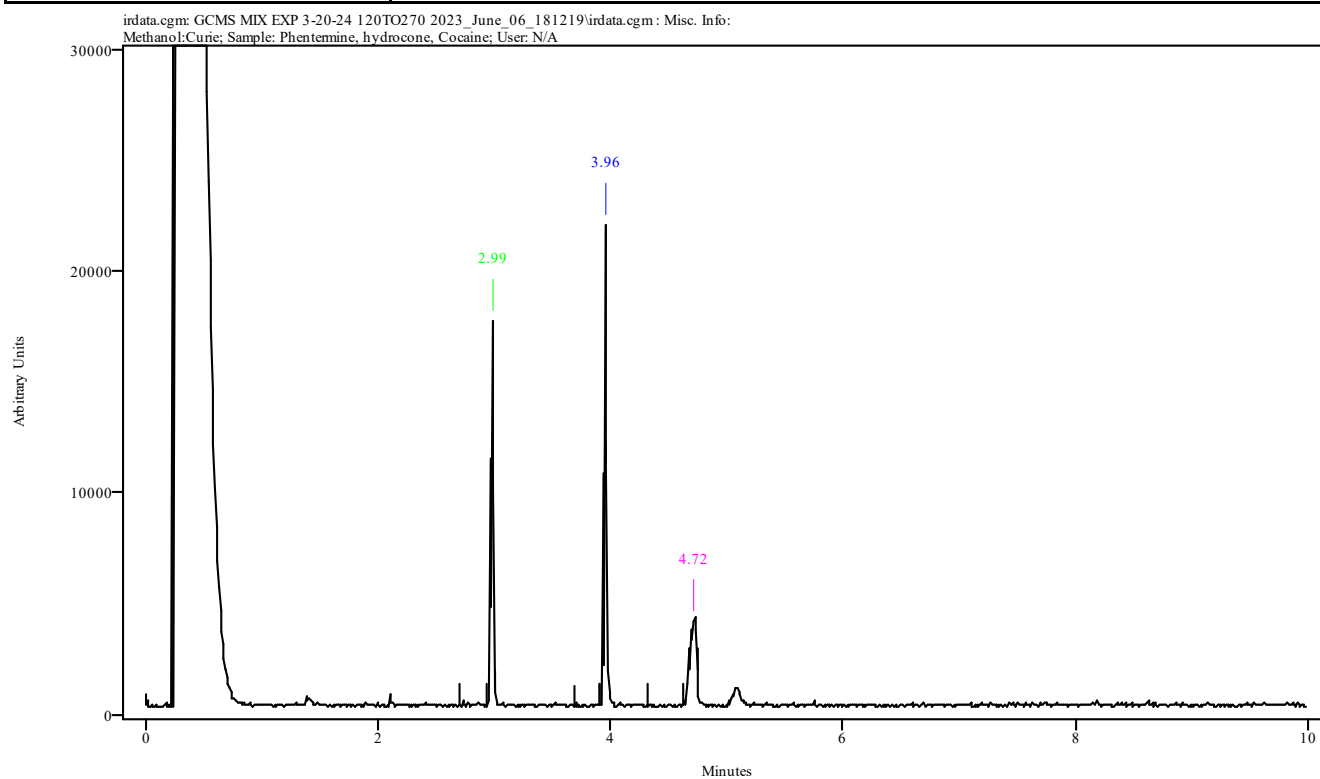
irdata.cgm: GCIR SOLN MB 60TO270 2023_June_06_165729\irdata.cgm : Misc. Info: Bicarb --> CHCl3:Curie;
Sample: Bicarb blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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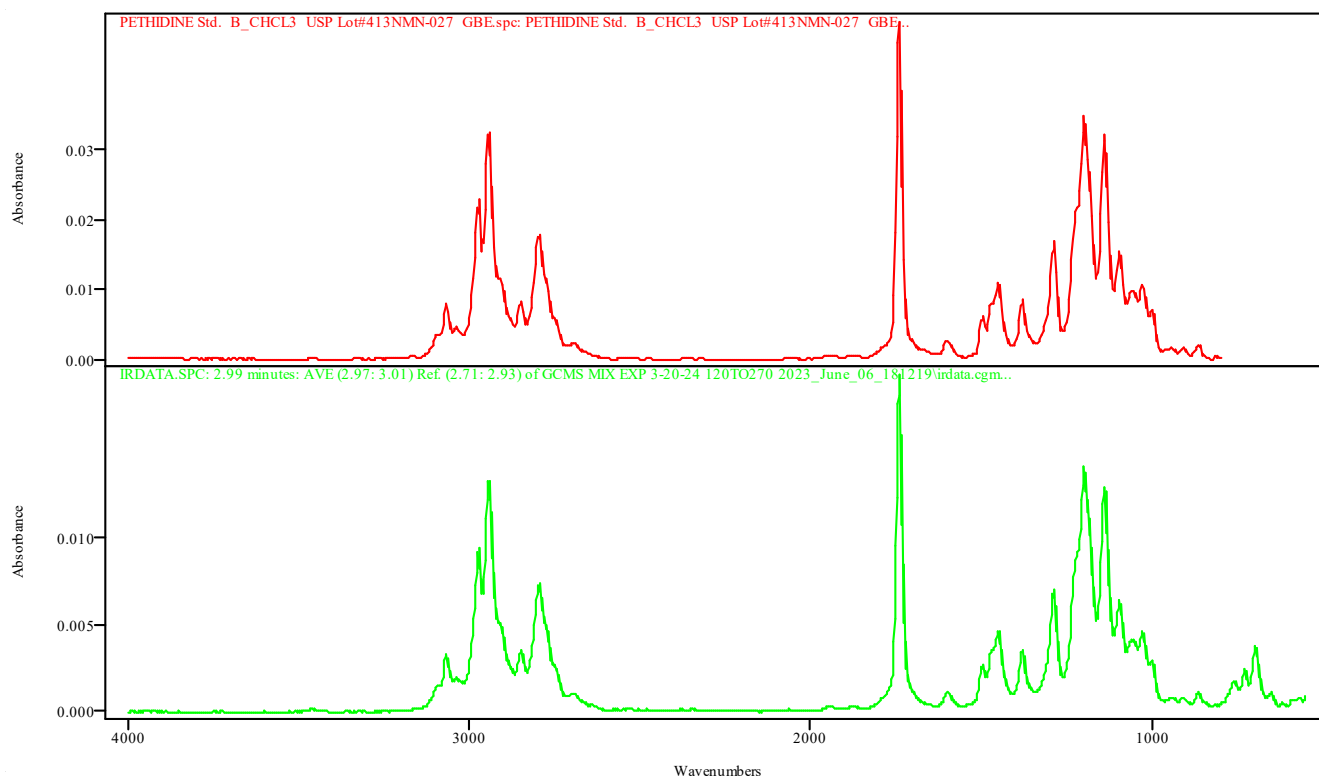
IRD Data Analysis Report

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:24:14 2023
Date Processed	Fri Jun 09 13:48:19 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.966	3.011	0.045	2.710	2.933
3.914	3.970	0.056	3.691	3.914
4.673	4.751	0.078	4.316	4.628

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	5
Sample Name	Phentermine Phentermine, hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:24:14 2023
Date Processed	Fri Jun 09 13:48:19 2023

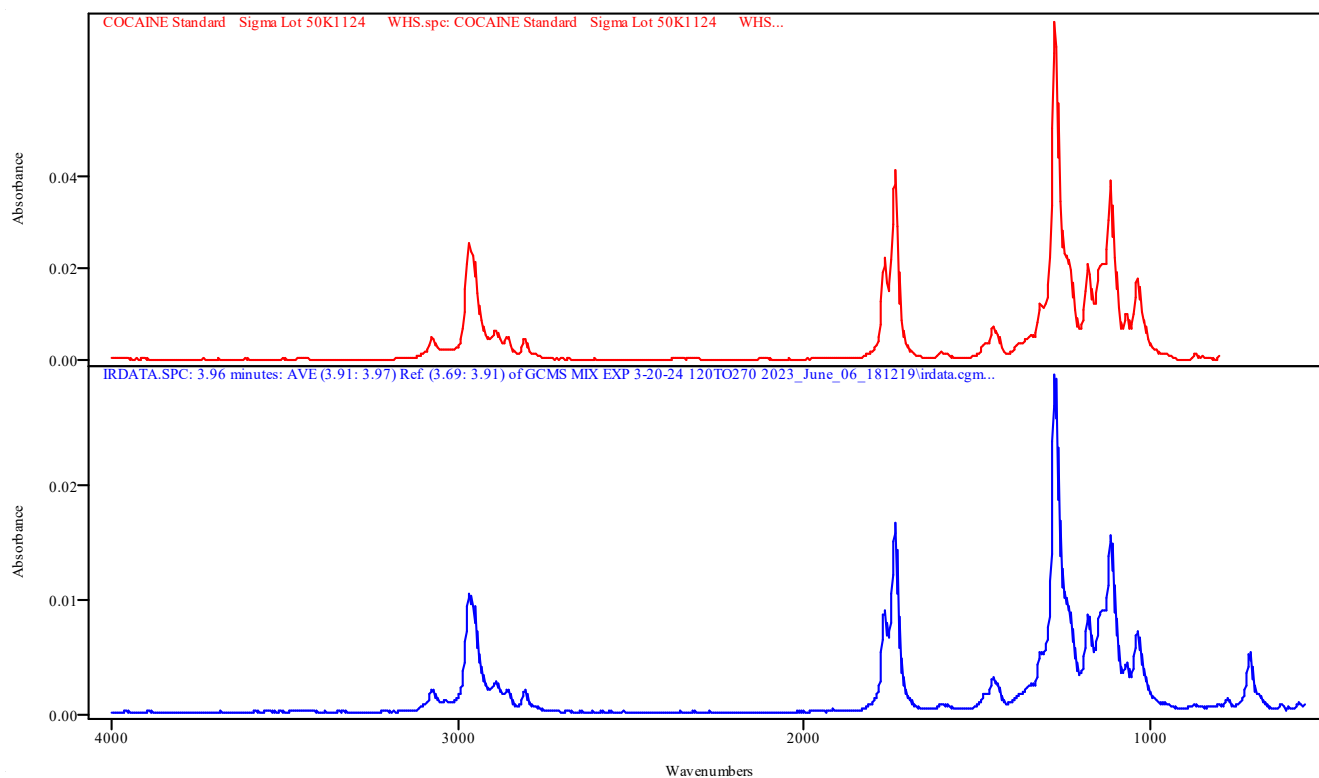


IRDATA.SPC: 2.99 minutes: AVE (2.97: 3.01) Ref. (2.71: 2.93) of GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219.cgm

PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE

Metric	Name	Library	Entry
0.998659	PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE	TBI GCIR combined Thermo generated libraries	444: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:24:14 2023
Date Processed	Fri Jun 09 13:48:19 2023

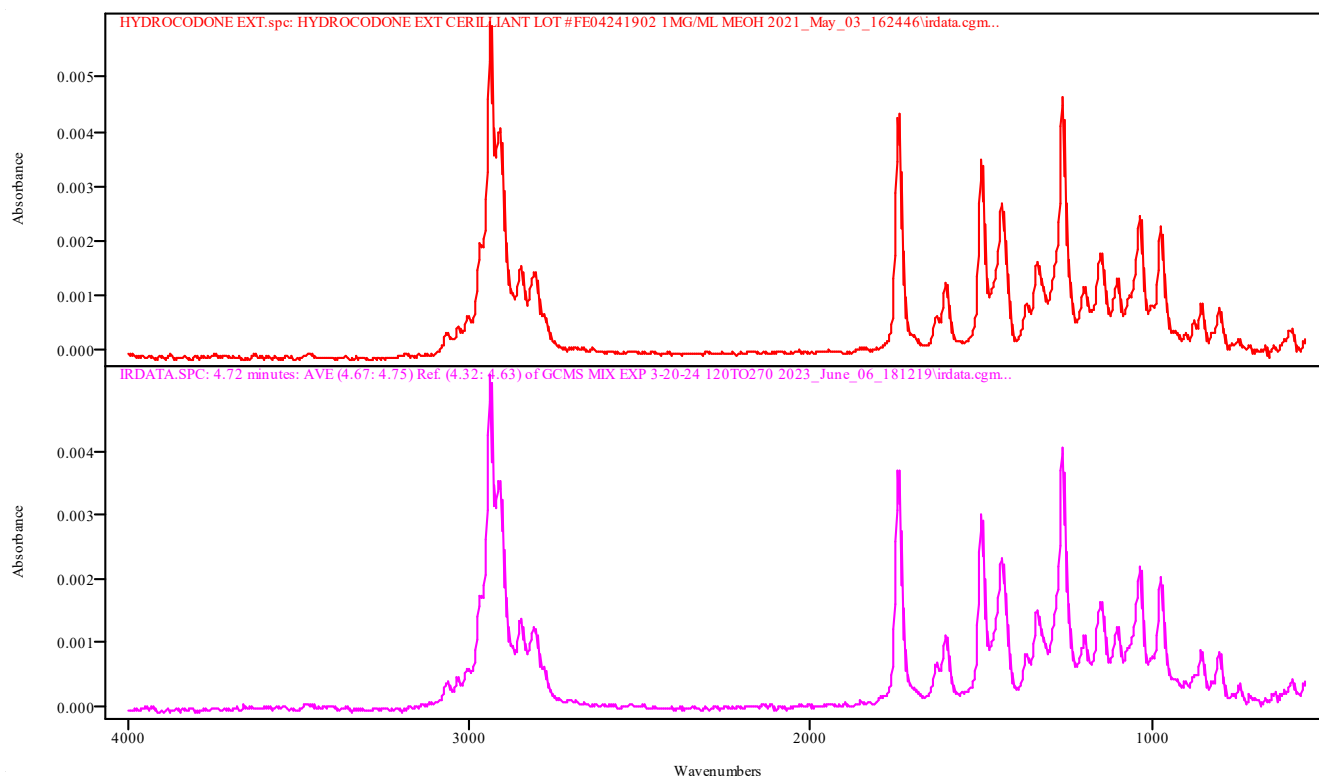


IRDATA.SPC: 3.96 minutes: AVE (3.91: 3.97) Ref. (3.69: 3.91) of GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.998661	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:24:14 2023
Date Processed	Fri Jun 09 13:48:19 2023



IRDATA.SPC: 4.72 minutes: AVE (4.67: 4.75) Ref. (4.32: 4.63) of GCMS MIX EXP 3-20-24 120TO270 2023_June_06_181219.cgm

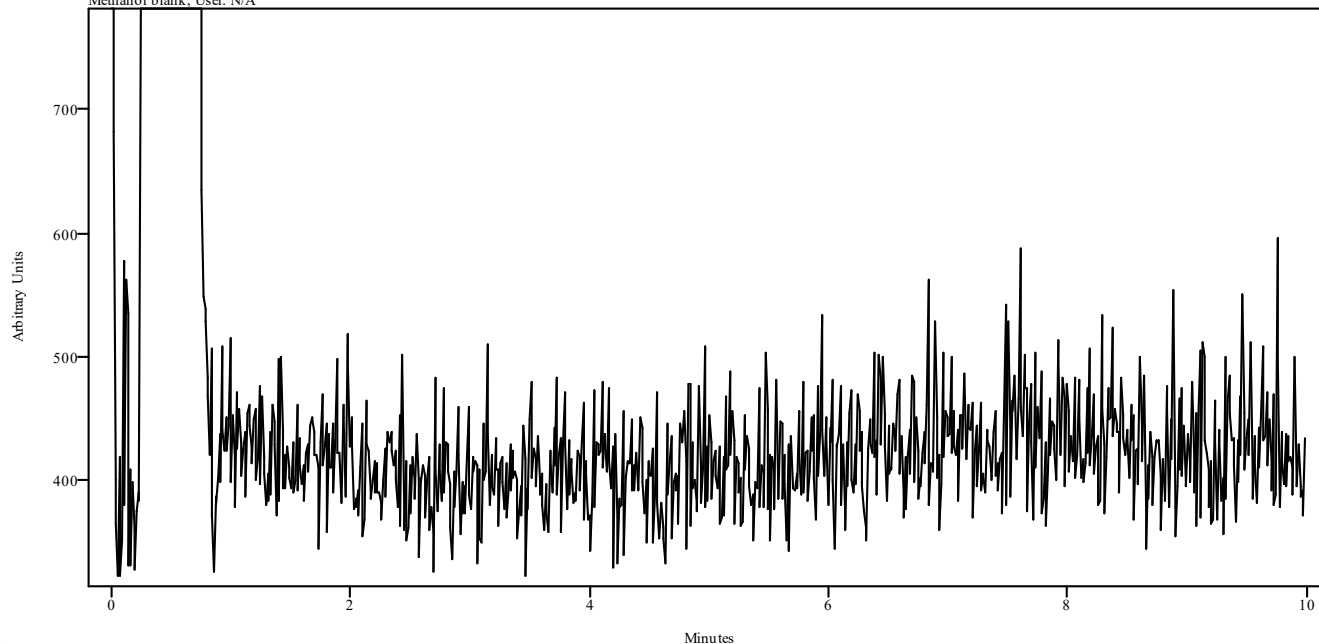
HYDROCODONE EXT.spc: HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm

Metric	Name	Library	Entry
0.997651	HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm	TBI GCIR EXT BH	34: HYDROCODONE EXT.spc

IRD Data Analysis Report

Data Filename	GCMS MIX MB 120TO270 2023_June_06_175830
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:10:19 2023
Date Processed	Fri Jun 09 13:48:28 2023

irdata.cgm: GCMS MIX MB 120TO270 2023_June_06_175830\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

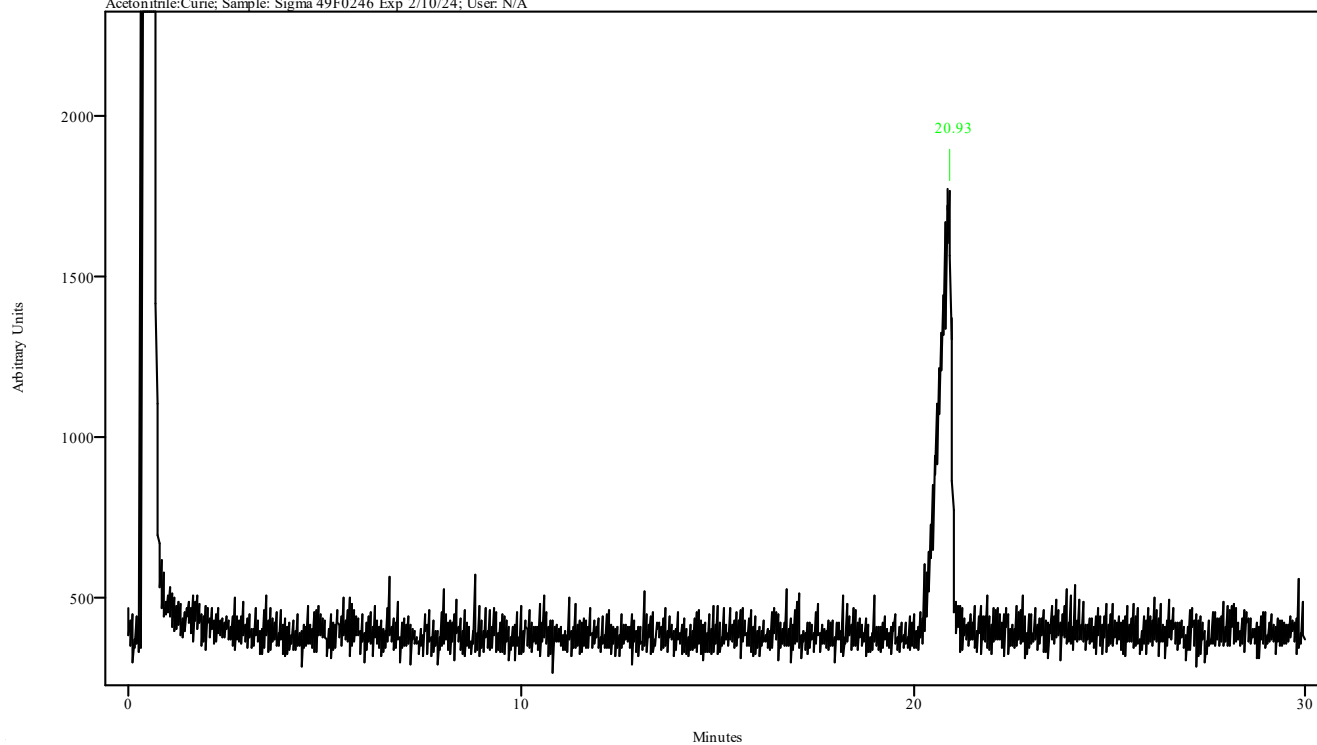


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

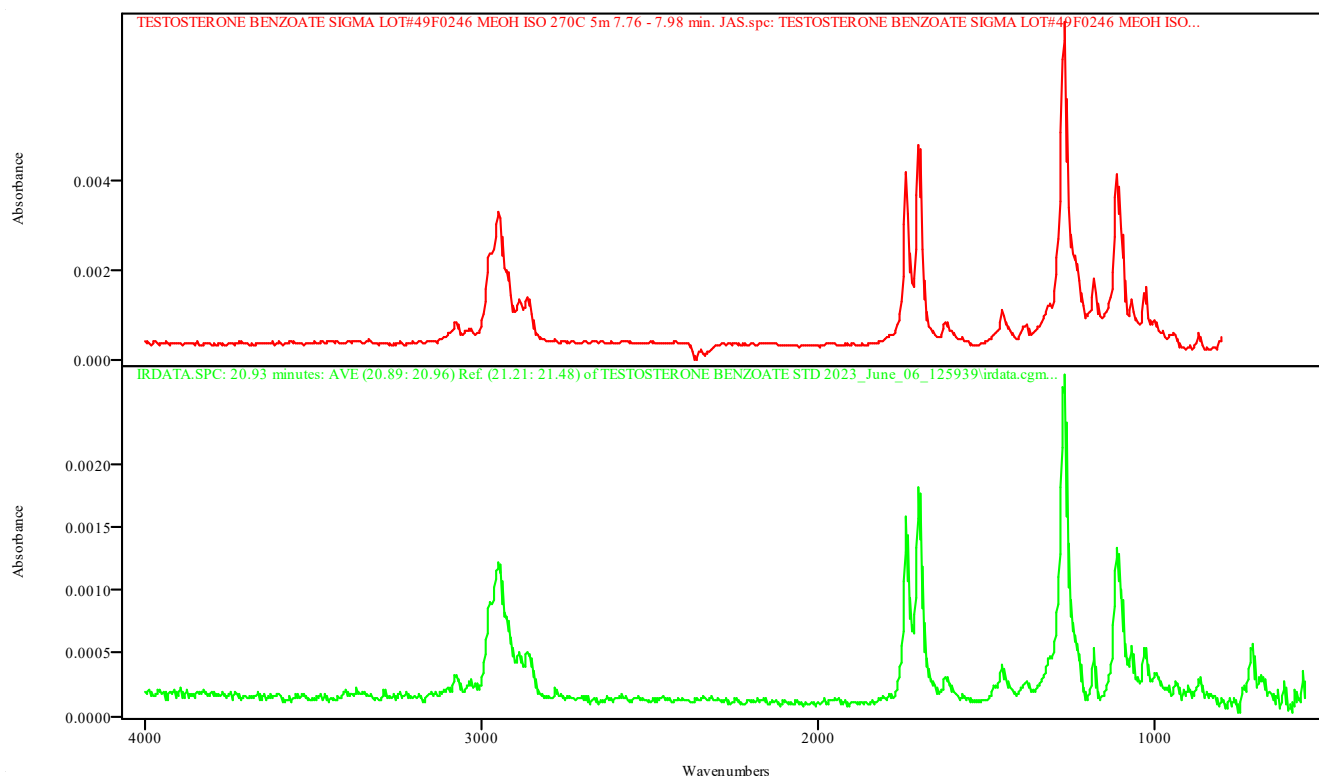
Data Filename	TESTOSTERONE BENZOATE STD 2023_June_06_125939
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 13:30:18 2023
Date Processed	Fri Jun 09 14:20:31 2023

irdata.cgm: TESTOSTERONE BENZOATE STD 2023_June_06_125939
irdata.cgm : Misc. Info: Acetonitrile:Curie; Sample: Sigma 49F0246 Exp 2/10/24; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
20.886	20.964	0.078	21.210	21.484

Data Filename	TESTOSTERONE BENZOATE STD 2023_June_06_125939
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 13:30:18 2023
Date Processed	Fri Jun 09 14:20:31 2023



IRDATA.SPC: 20.93 minutes: AVE (20.89: 20.96) Ref. (21.21: 21.48) of TESTOSTERONE BENZOATE STD 2023_June_06_125939.cgm

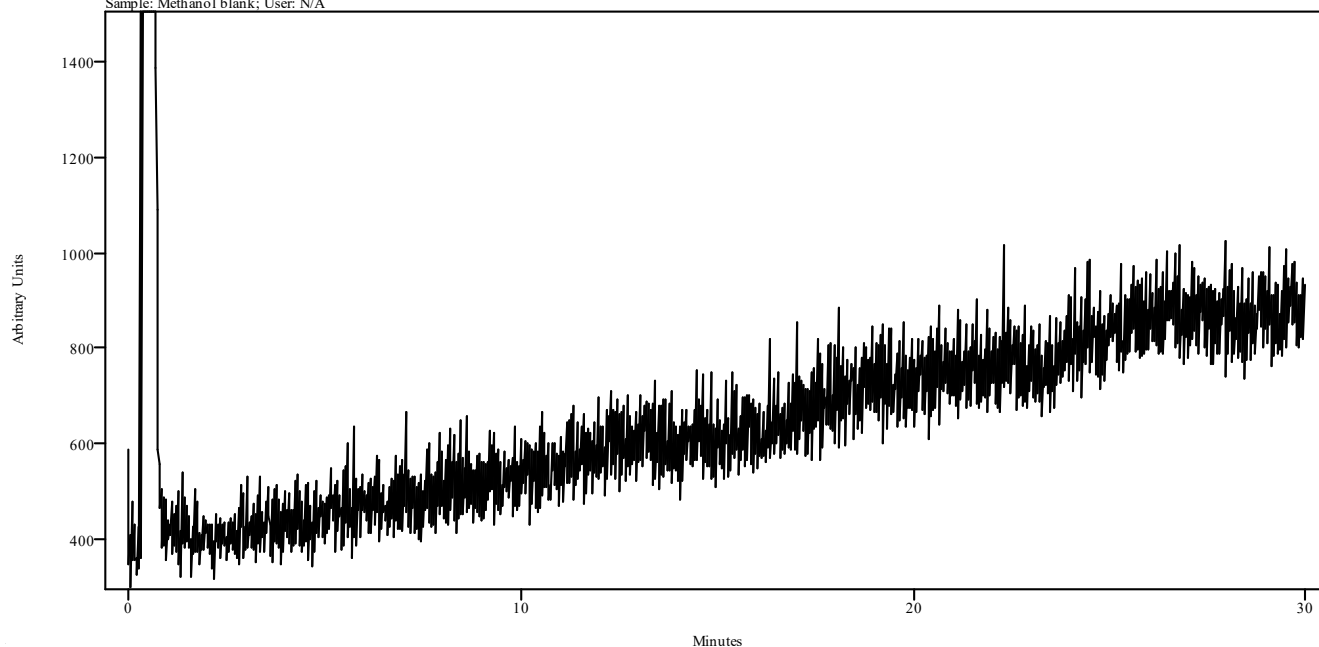
TESTOSTERONE BENZOATE SIGMA LOT#49F0246 MEOH ISO 270C 5m 7.76 - 7.98 min.
JAS.spc: TESTOSTERONE BENZOATE SIGMA LOT#49F0246 MEOH ISO 270C 5m 7.76 - 7.98 min. JAS

Metric	Name	Library	Entry
0.983398	TESTOSTERONE BENZOATE SIGMA LOT#49F0246 MEOH ISO 270C 5m 7.76 - 7.98 min. JAS	TBI GCIR combined Thermo generated libraries	233: TESTOSTERONE BENZOATE SIGMA LOT#49F0246 MEOH ISO 270C 5m 7.76 - 7.98 min. JAS.spc

IRD Data Analysis Report

Data Filename	TESTOSTERONE BENZOATE MB 2023_June_06_122418
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	ISO270(30MIN)
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 12:57:39 2023
Date Processed	Fri Jun 09 14:23:03 2023

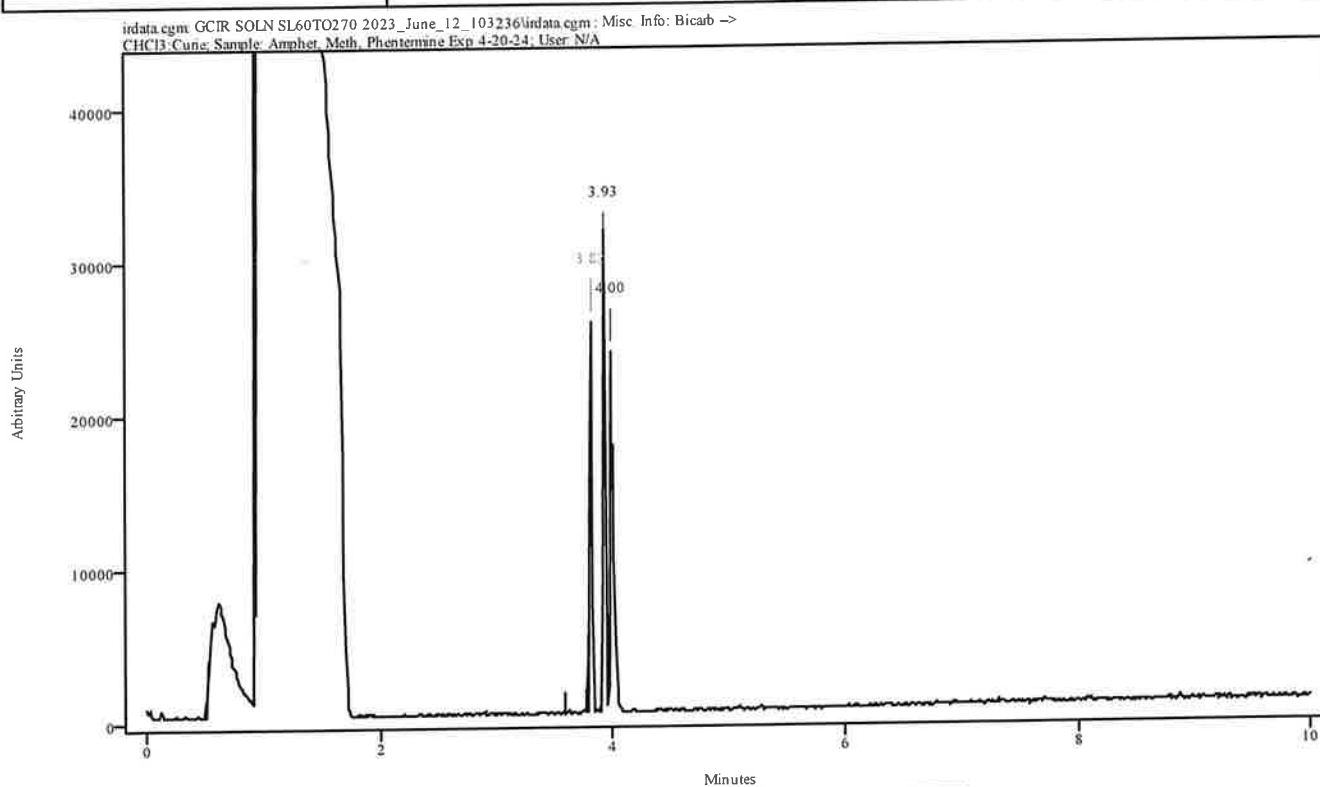
irdata.cgm: TESTOSTERONE BENZOATE MB 2023_June_06_122418\irdata.cgm : Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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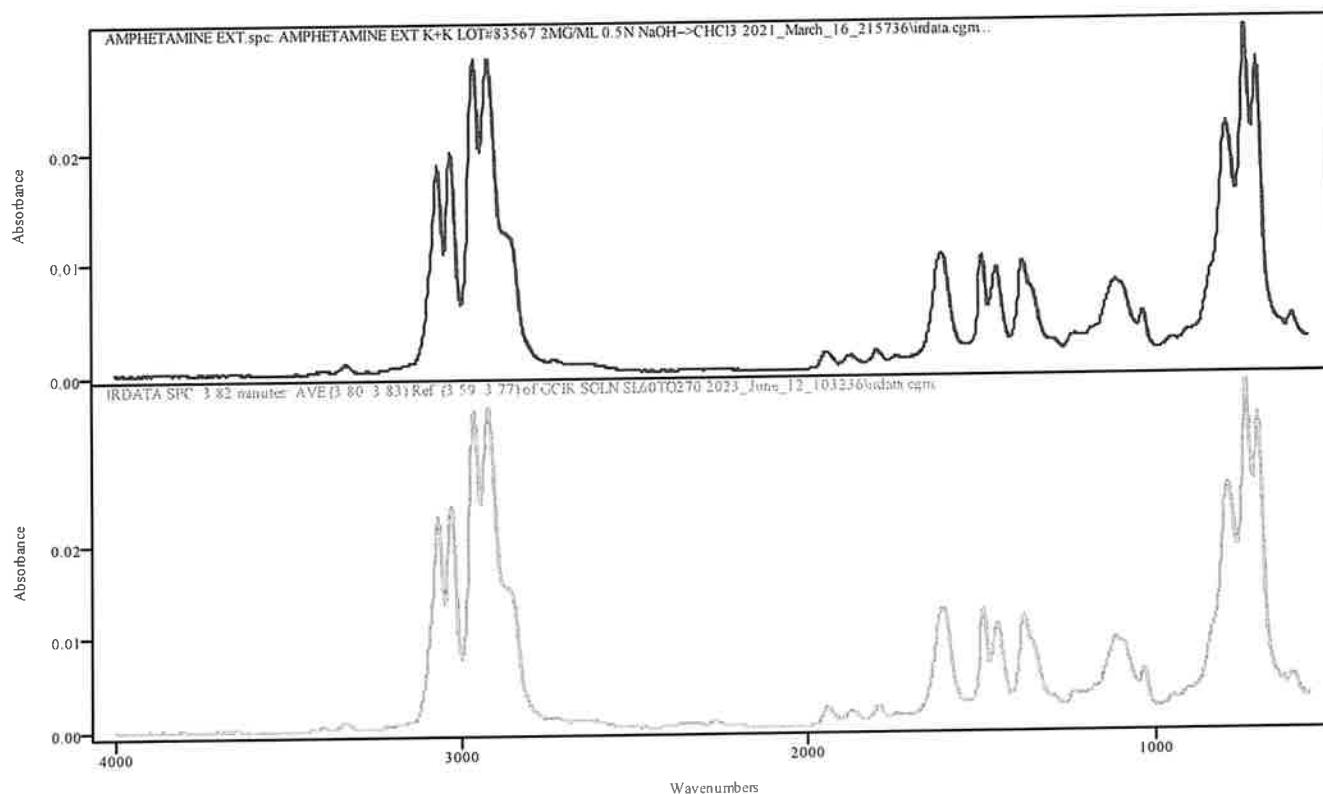
IRD Data Analysis Report

Data Filename	GCIR SOLN SL60TO270 2023_June_12_103236
Data Path	X:/CURIE 2023/LJ/06-12-23
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Mon Jun 12 10:45:38 2023
Date Processed	Mon Jun 12 10:57:44 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.795	3.829	0.033	3.595	3.773
3.896	3.952	0.056	3.595	3.773
3.974	4.019	0.045	3.595	3.773

Data Filename	GCIR SOLN SL60TO270 2023_June_12_103236
Data Path	X:/CURIE 2023/LJ/06-12-23
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Mon Jun 12 10:45:38 2023
Date Processed	Mon Jun 12 10:57:44 2023

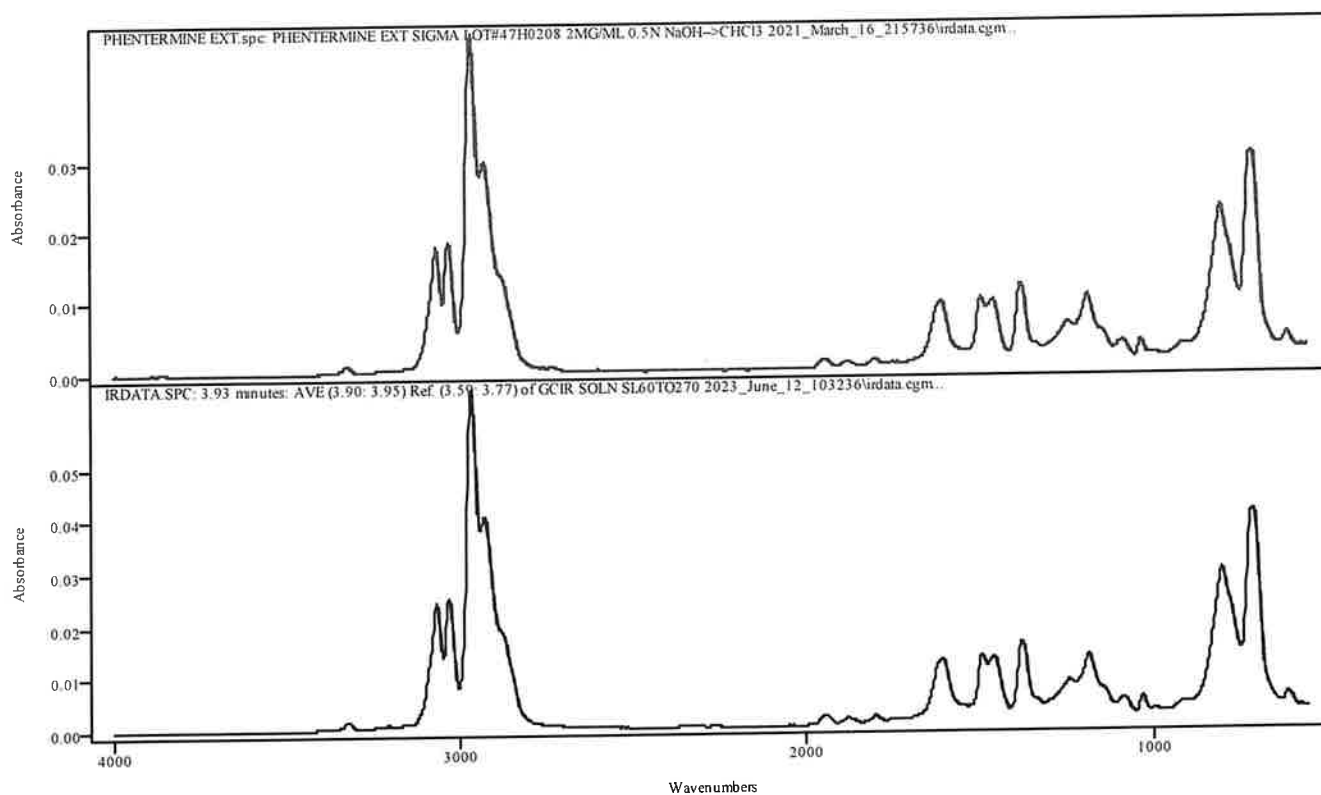


IRDATA.SPC: 3.82 minutes: AVE (3.80: 3.83) Ref. (3.59: 3.77) of GCIR SOLN SL60TO270 2023_June_12_103236.cgm

AMPHETAMINE EXT.spc: AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999602	AMPHETAMINE EXT K+K LOT#83567 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	12: AMPHETAMINE EXT.spc

Data Filename	GCIR SOLN SL60TO270 2023_June_12_103236
Data Path	X:/CURIE 2023/LJ/06-12-23
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Mon Jun 12 10:45:38 2023
Date Processed	Mon Jun 12 10:57:44 2023

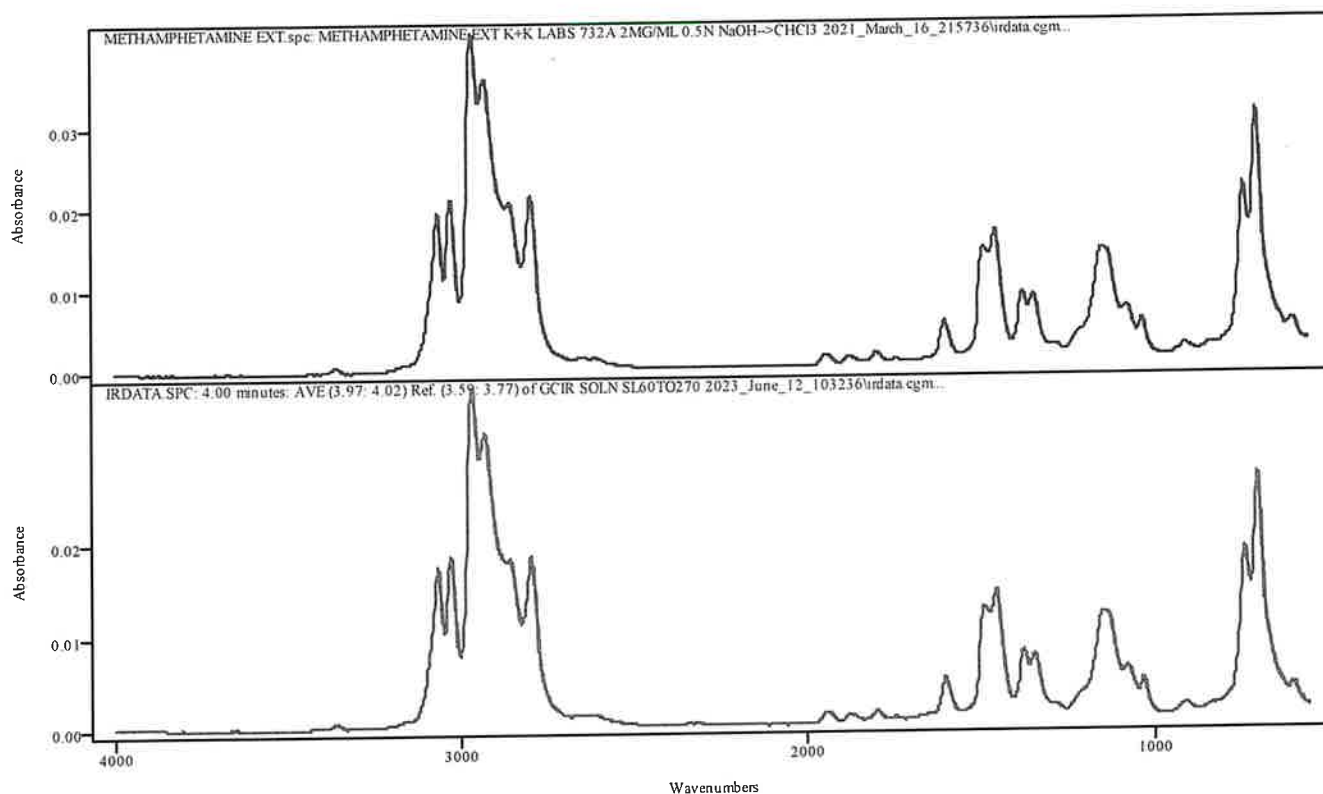


IRDATA.SPC: 3.93 minutes: AVE (3.90: 3.95) Ref. (3.59: 3.77) of GCIR SOLN SL60TO270 2023_June_12_103236.cgm

PHENTERMINE EXT.spc: PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999504	PHENTERMINE EXT SIGMA LOT#47H0208 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	56: PHENTERMINE EXT.spc

Data Filename	GCIR SOLN SL60TO270 2023_June_12_103236
Data Path	X:/CURIE 2023/LJ/06-12-23
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	3
Sample Name	Amphet, Meth, Phentermine Exp 4-20-24
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Mon Jun 12 10:45:38 2023
Date Processed	Mon Jun 12 10:57:44 2023



IRDATA.SPC: 4.00 minutes: AVE (3.97: 4.02) Ref. (3.59: 3.77) of GCIR SOLN SL60TO270 2023_June_12_103236.cgm

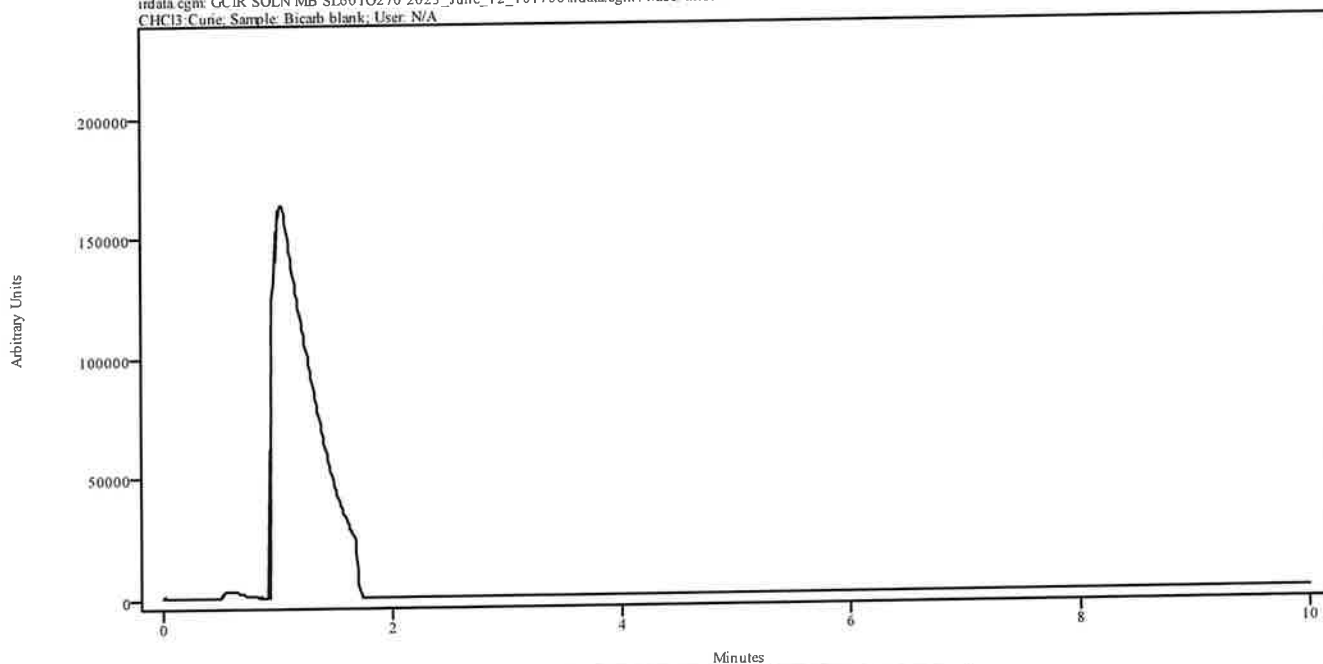
METHAMPHETAMINE EXT.spc: METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.998939	METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	40: METHAMPHETAMINE EXT.spc

IRD Data Analysis Report

Data Filename	GCIR SOLN MB SL60TO270 2023_June_12_101706
Data Path	X:/CURIE 2023/LJ/06-12-23
IRD Method	IRD3 EXT
GC Method	SL60TO270
GC Vial	2
Sample Name	Bicarb blank
Misc. Info	Bicarb --> CHCl3:Curie
User ID	N/A
Injection Time	Mon Jun 12 10:30:39 2023
Date Processed	Mon Jun 12 10:54:58 2023

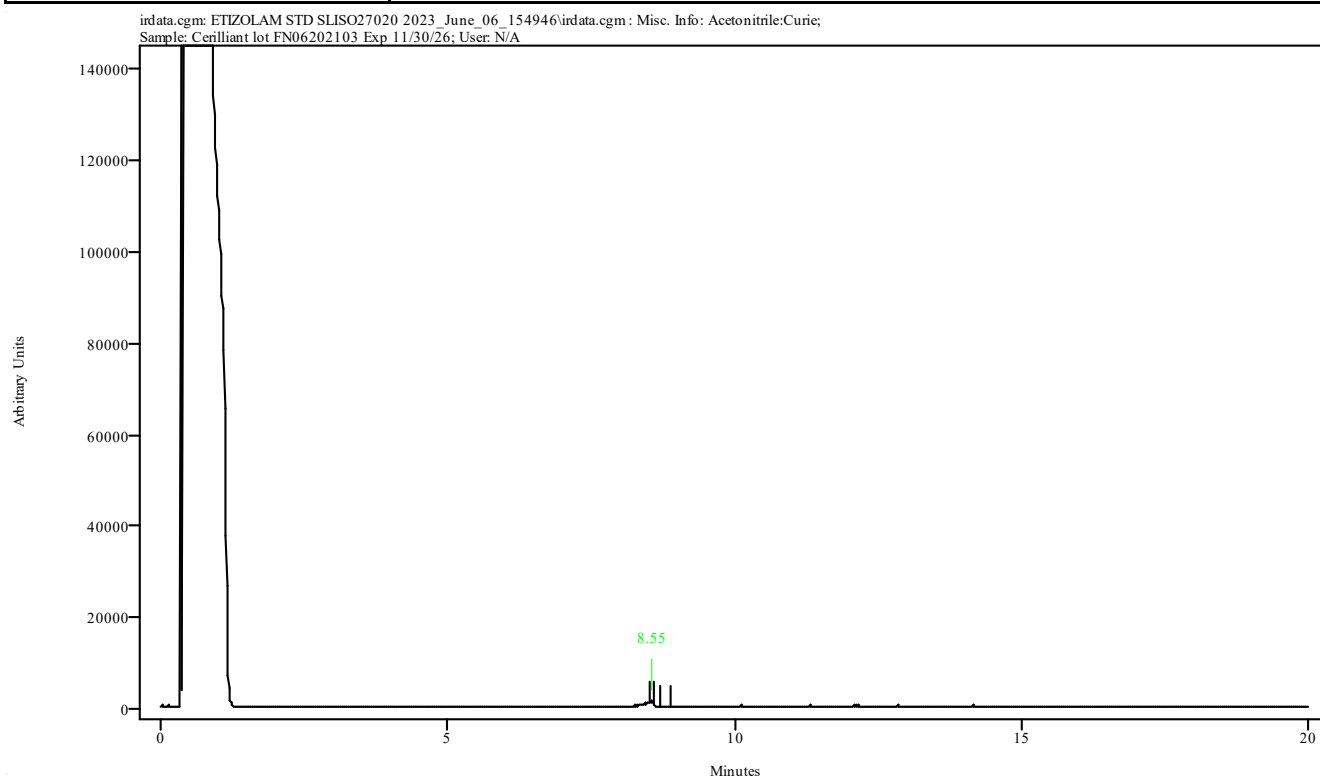
irdata.cgm: GCIR SOLN MB SL60TO270 2023_June_12_101706\irdata.cgm : Misc. Info: Bicarb -->
CHCl3:Curie; Sample: Bicarb blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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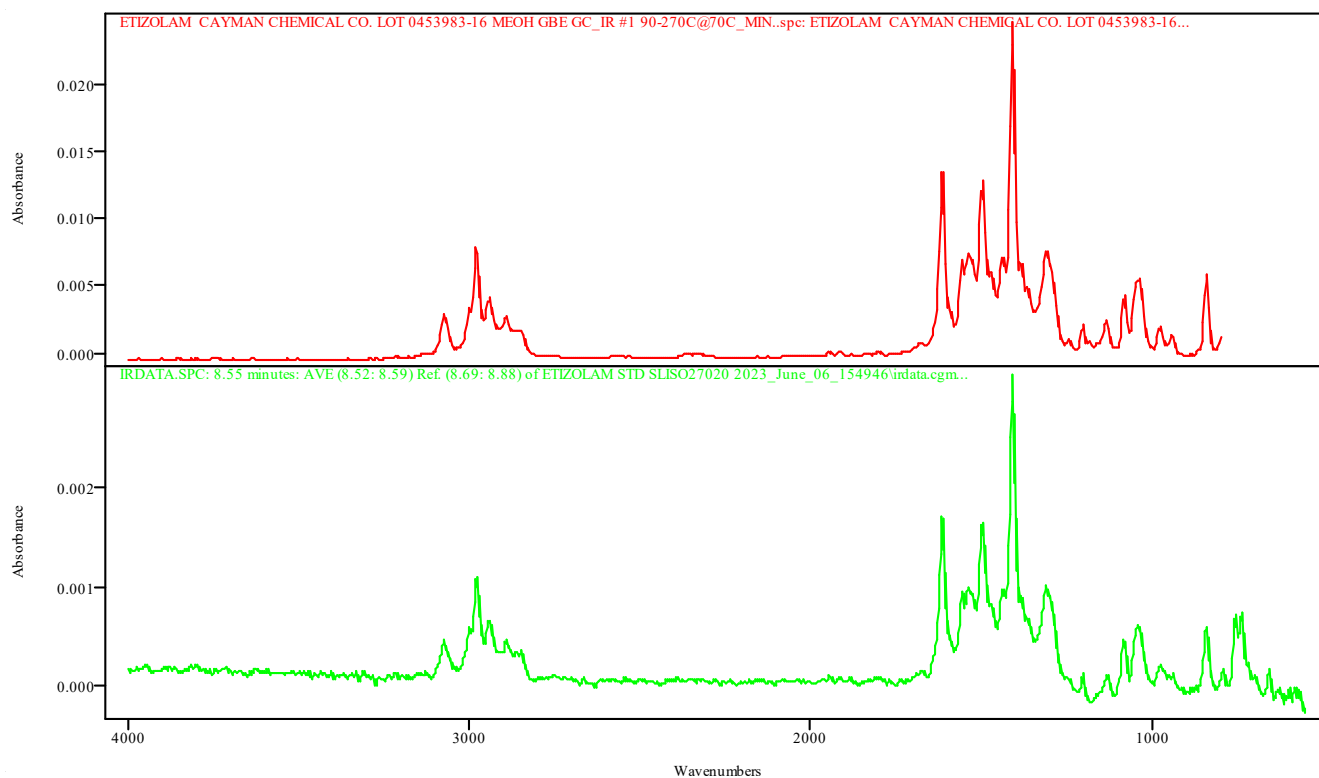
IRD Data Analysis Report

Data Filename	ETIZOLAM STD SLISO27020 2023_June_06_154946
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	12
Sample Name	Cerilliant lot FN06202103 Exp 11/30/26
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 16:10:17 2023
Date Processed	Mon Jun 12 07:11:47 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
8.520	8.587	0.067	8.687	8.876

Data Filename	ETIZOLAM STD SLISO27020 2023_June_06_154946
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	12
Sample Name	Cerilliant lot FN06202103 Exp 11/30/26
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 16:10:17 2023
Date Processed	Mon Jun 12 07:11:47 2023



IRDATA.SPC: 8.55 minutes: AVE (8.52: 8.59) Ref. (8.69: 8.88) of ETIZOLAM STD SLISO27020 2023_June_06_154946.cgm

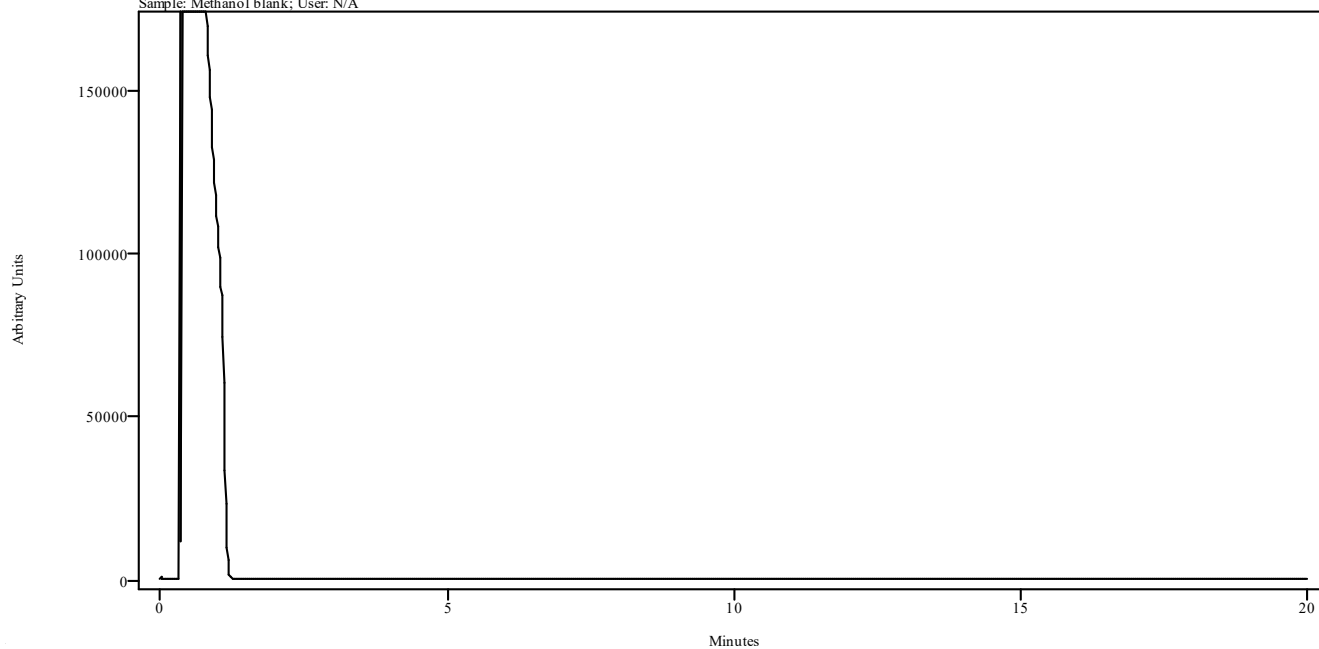
ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN..spc: ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN.

Metric	Name	Library	Entry
0.962347	ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN.	TBI GCIR combined Thermo generated libraries	9: ETIZOLAM CAYMAN CHEMICAL CO. LOT 0453983-16 MEOH GBE GC_IR #1 90-270C@70C_MIN..spc

IRD Data Analysis Report

Data Filename	ETIZOLAM MB SLISO27020 2023_June_06_152409
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(20MIN)
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 15:47:45 2023
Date Processed	Mon Jun 12 07:12:57 2023

irdata.cgm: ETIZOLAM MB SLISO27020 2023_June_06_152409\irdata.cgm : Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A

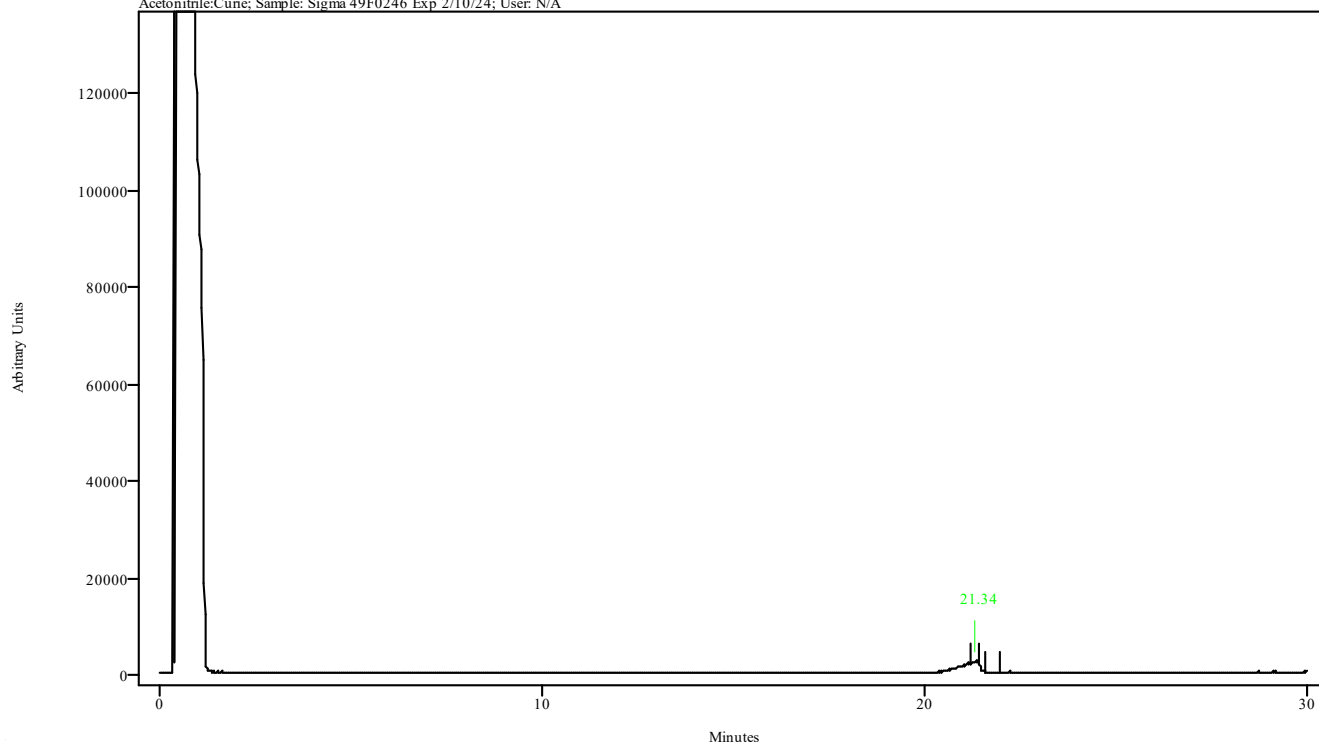


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

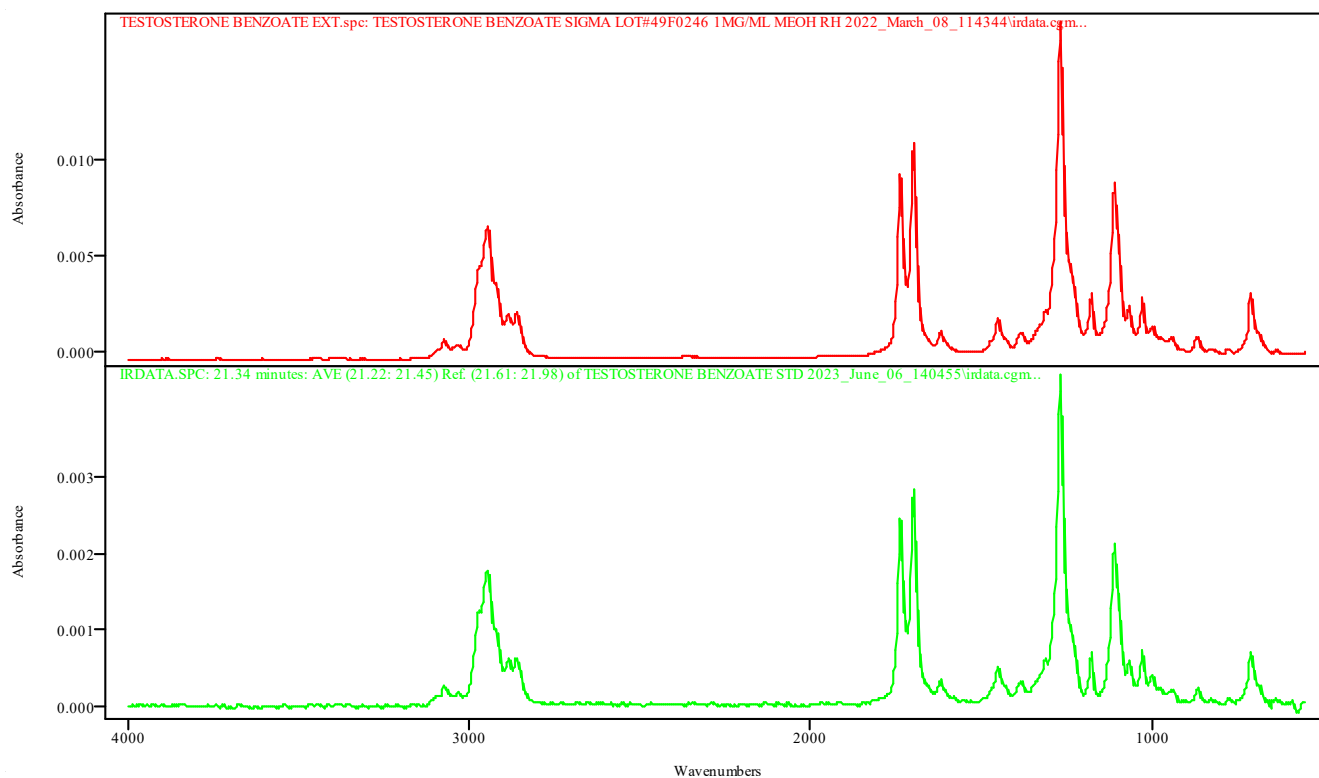
Data Filename	TESTOSTERONE BENZOATE STD 2023_June_06_140455
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 14:35:30 2023
Date Processed	Fri Jun 09 14:24:04 2023

irdata.cgm: TESTOSTERONE BENZOATE STD 2023_June_06_140455; irdata.cgm : Misc. Info:
Acetonitrile:Curie; Sample: Sigma 49F0246 Exp 2/10/24; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
21.225	21.447	0.222	21.614	21.981

Data Filename	TESTOSTERONE BENZOATE STD 2023_June_06_140455
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 14:35:30 2023
Date Processed	Fri Jun 09 14:24:04 2023



IRDATA.SPC: 21.34 minutes: AVE (21.22: 21.45) Ref. (21.61: 21.98) of TESTOSTERONE BENZOATE STD 2023_June_06_140455.cgm

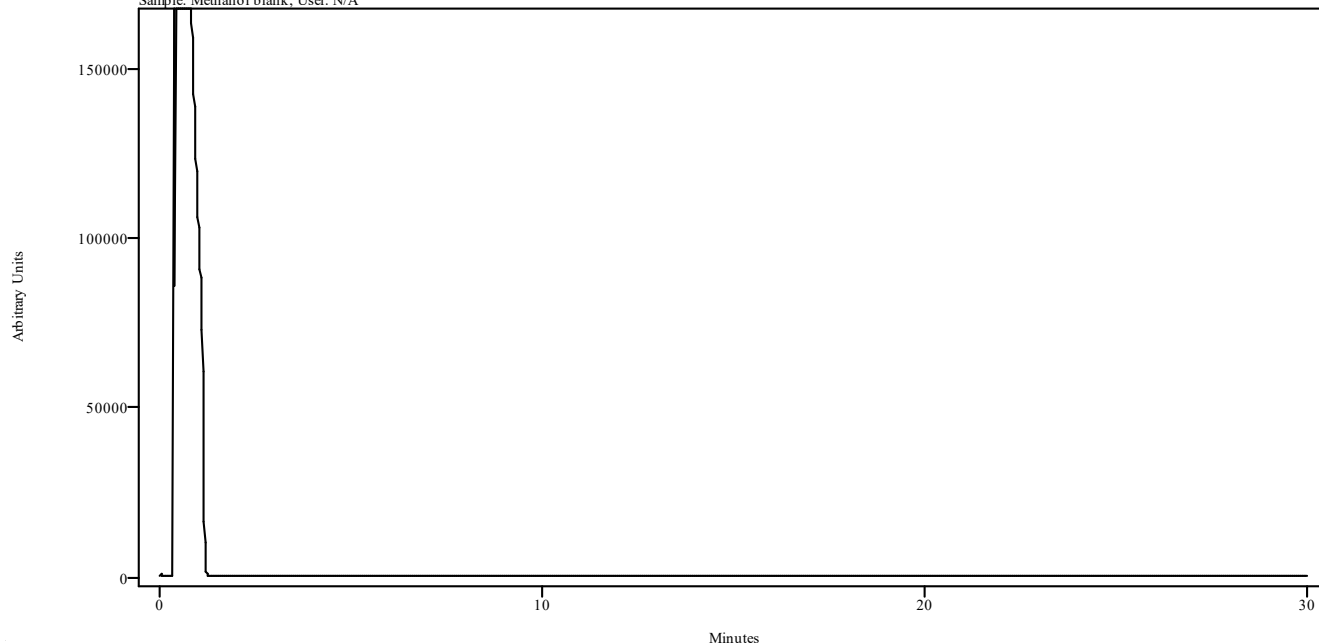
TESTOSTERONE BENZOATE EXT.spc: TESTOSTERONE BENZOATE SIGMA LOT#49F0246 1MG/ML MEOH RH 2022_March_08_114344\irdata.cgm

Metric	Name	Library	Entry
0.996068	TESTOSTERONE BENZOATE SIGMA LOT#49F0246 1MG/ML MEOH RH 2022_March_08_114344\irdata.cgm	TBI GCIR EXT BH	58: TESTOSTERONE BENZOATE EXT.spc

IRD Data Analysis Report

Data Filename	TESTOSTERONE BENZOATE MB 2023_June_06_133219
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLISO270(30MIN)
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 14:02:54 2023
Date Processed	Fri Jun 09 14:22:08 2023

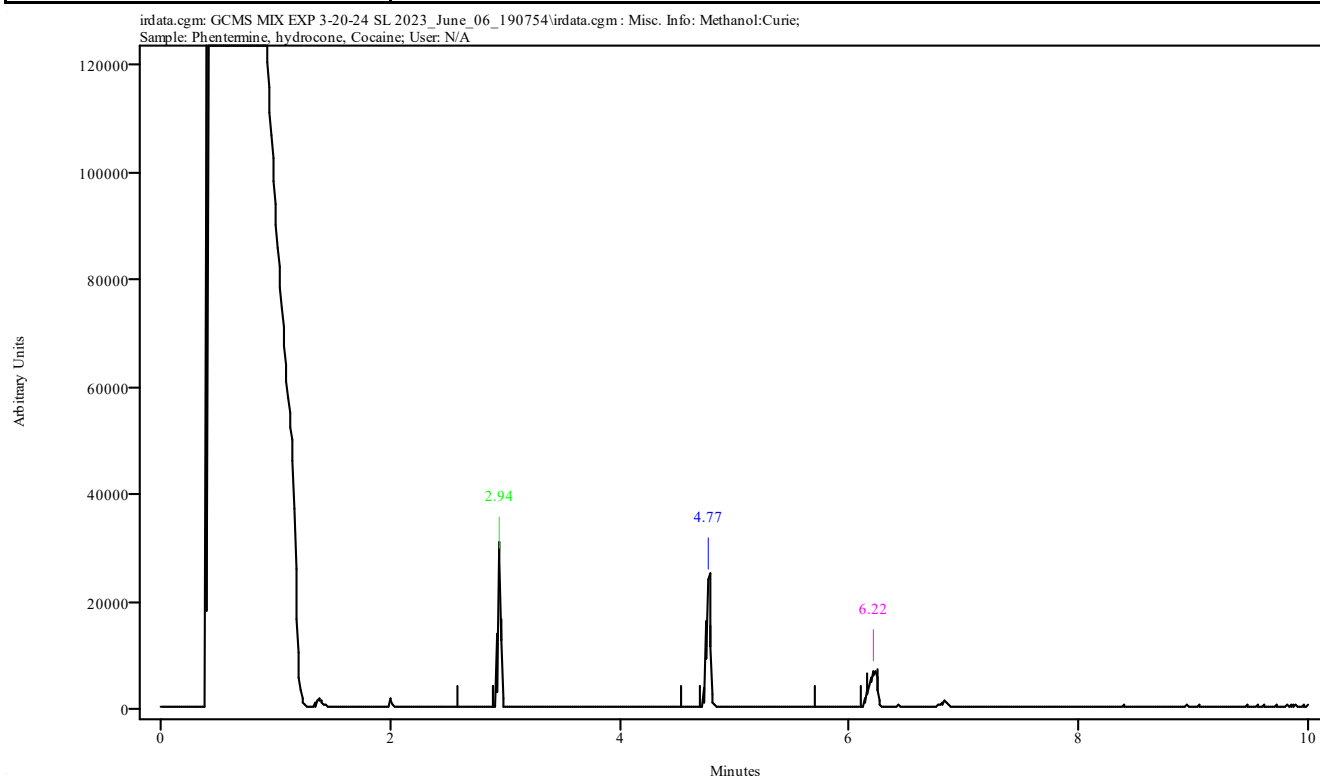
irdata.cgm: TESTOSTERONE BENZOATE MB 2023_June_06_133219\irdata.cgm : Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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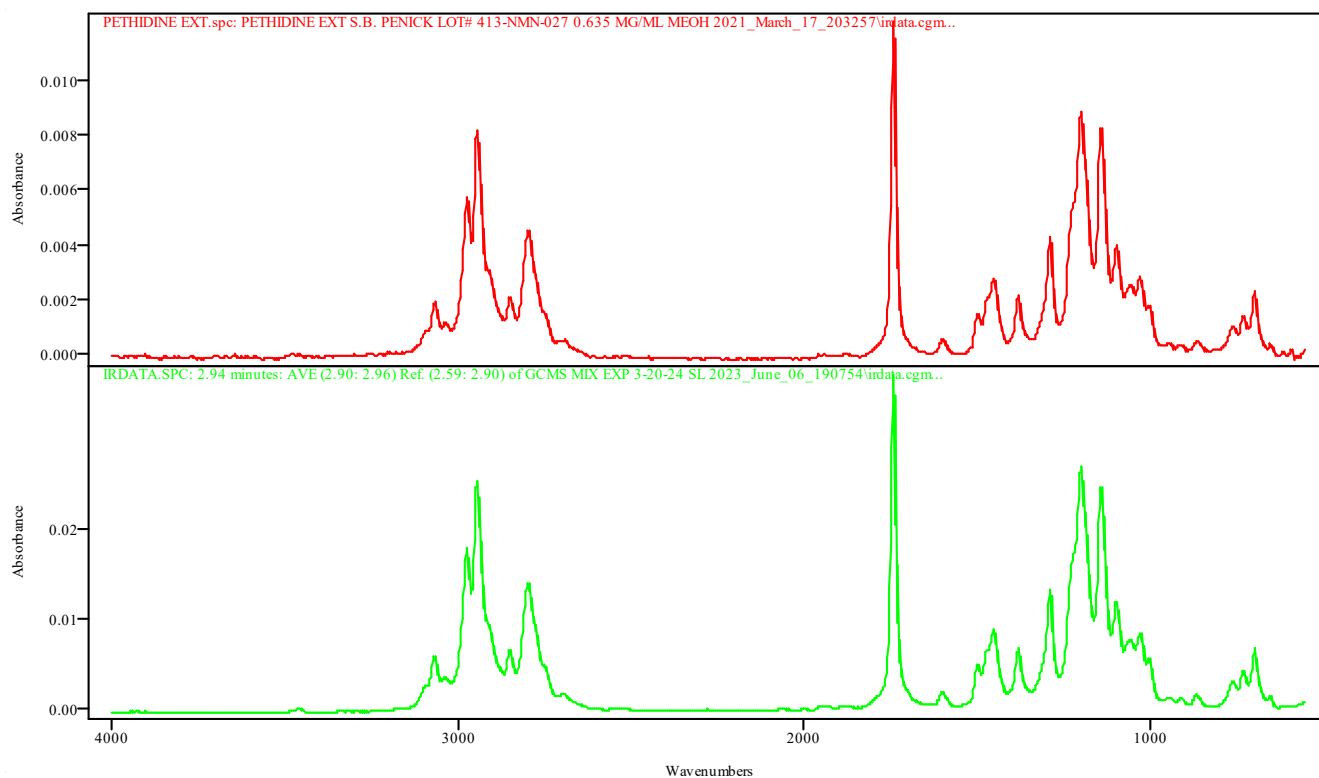
IRD Data Analysis Report

Data Filename	GCMS MIX EXP 3-20-24 SL 2023_June_06_190754
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:19:45 2023
Date Processed	Mon Jun 12 07:44:12 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.898	2.965	0.067	2.586	2.898
4.748	4.793	0.045	4.525	4.703
6.152	6.253	0.100	5.695	6.097

Data Filename	GCMS MIX EXP 3-20-24 SL 2023_June_06_190754
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:19:45 2023
Date Processed	Mon Jun 12 07:44:12 2023

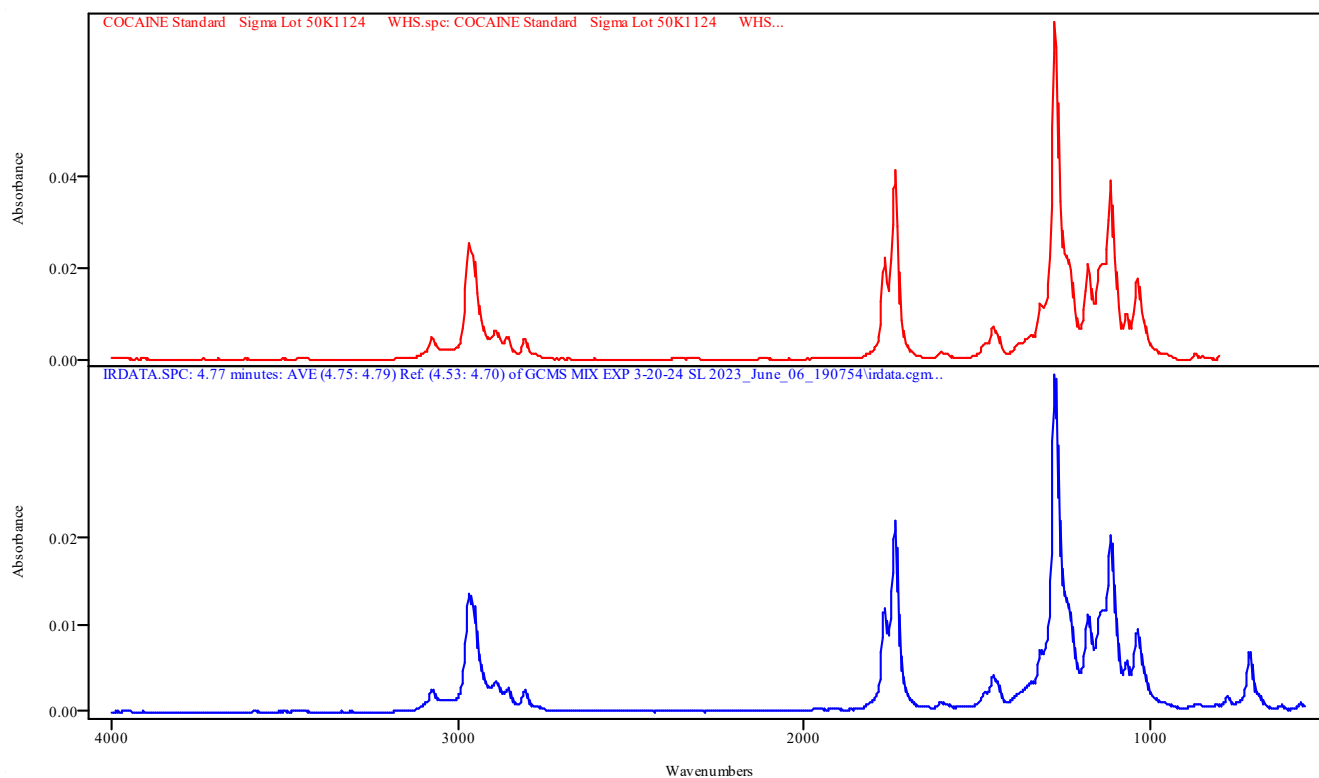


IRDATA.SPC: 2.94 minutes: AVE (2.90: 2.96) Ref. (2.59: 2.90) of GCMS MIX EXP 3-20-24 SL 2023_June_06_190754.cgm

PETHIDINE EXT.spc: PETHIDINE EXT S.B. PENICK LOT# 413-NMN-027 0.635 MG/ML MEOH 2021_March_17_203257\irdata.cgm

Metric	Name	Library	Entry
0.998766	PETHIDINE EXT S.B. PENICK LOT# 413-NMN-027 0.635 MG/ML MEOH 2021_March_17_203257\irdata.cgm	TBI GCIR EXT BH	55: PETHIDINE EXT.spc

Data Filename	GCMS MIX EXP 3-20-24 SL 2023_June_06_190754
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:19:45 2023
Date Processed	Mon Jun 12 07:44:12 2023

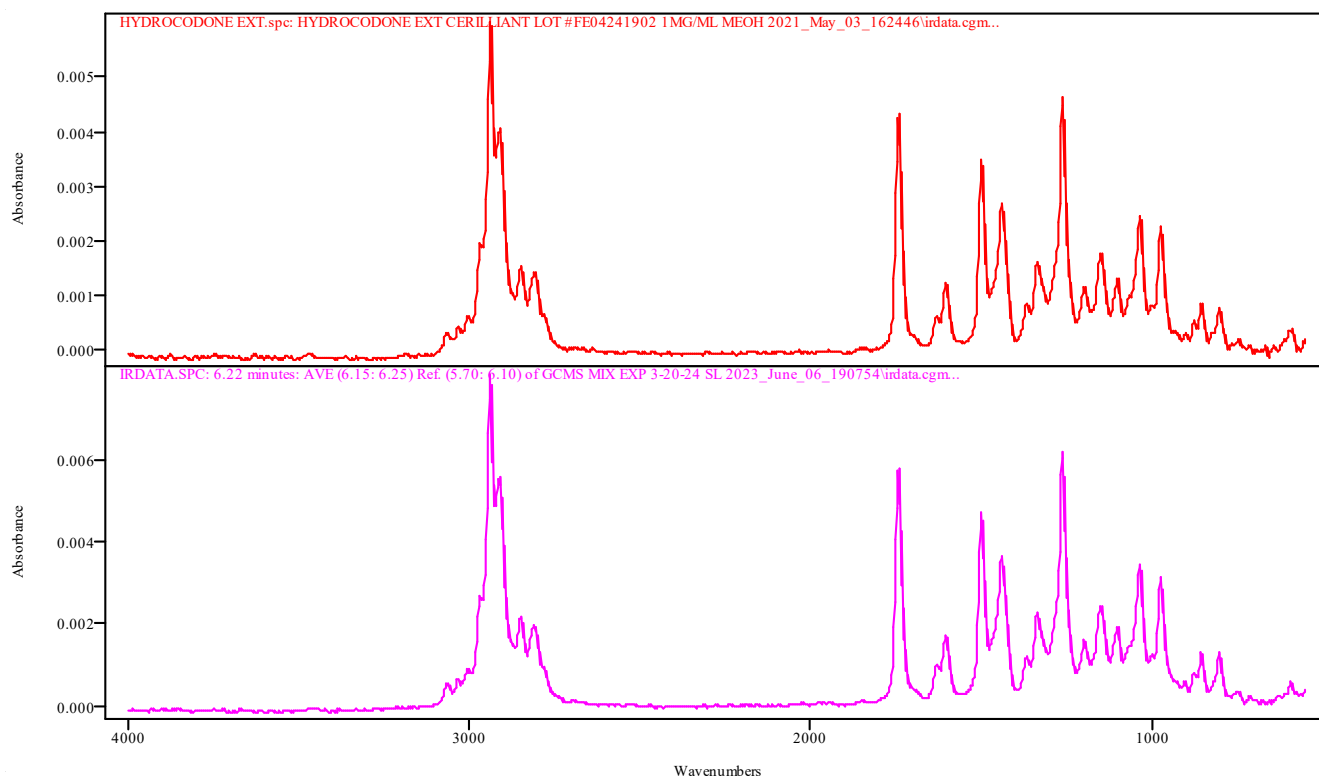


IRDATA.SPC: 4.77 minutes: AVE (4.75: 4.79) Ref. (4.53: 4.70) of GCMS MIX EXP 3-20-24 SL 2023_June_06_190754.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.998319	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 SL 2023_June_06_190754
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:19:45 2023
Date Processed	Mon Jun 12 07:44:12 2023



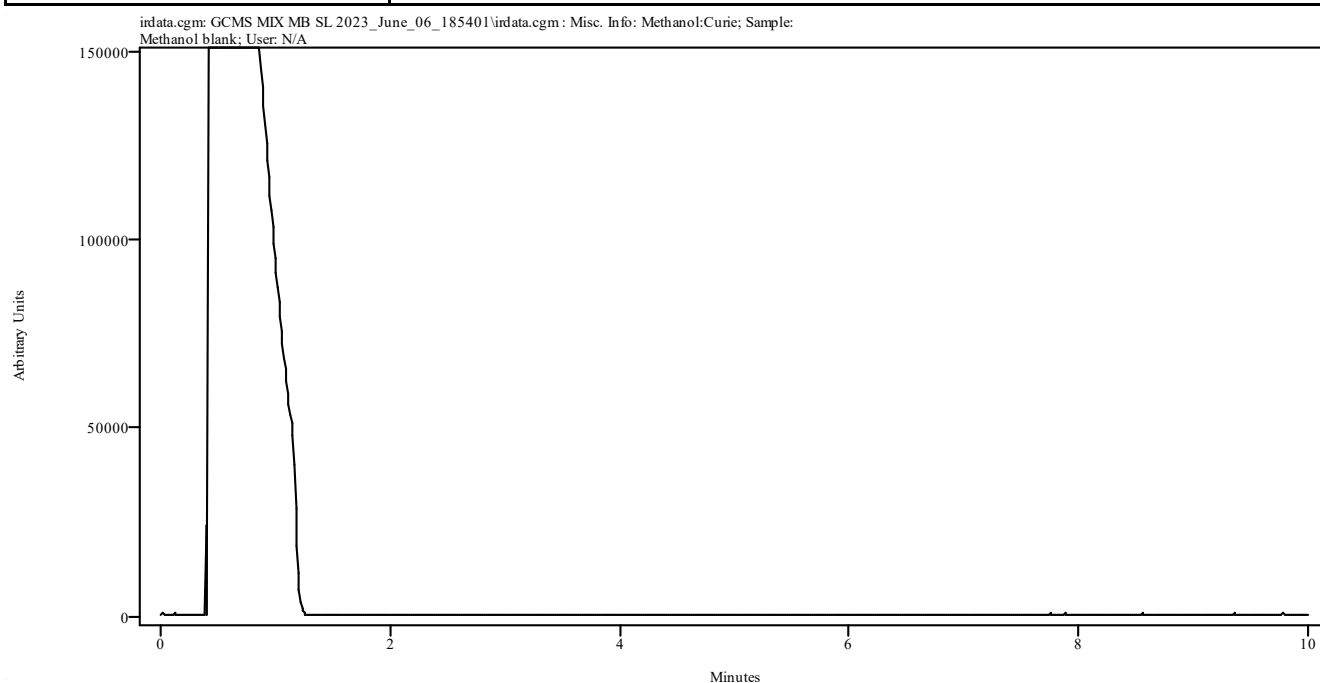
IRDATA.SPC: 6.22 minutes: AVE (6.15: 6.25) Ref. (5.70: 6.10) of GCMS MIX EXP 3-20-24 SL 2023_June_06_190754.cgm

HYDROCODONE EXT.spc: HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm

Metric	Name	Library	Entry
0.998654	HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm	TBI GCIR EXT BH	34: HYDROCODONE EXT.spc

IRD Data Analysis Report

Data Filename	GCMS MIX MB SL 2023_June_06_185401
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:05:54 2023
Date Processed	Mon Jun 12 07:45:59 2023

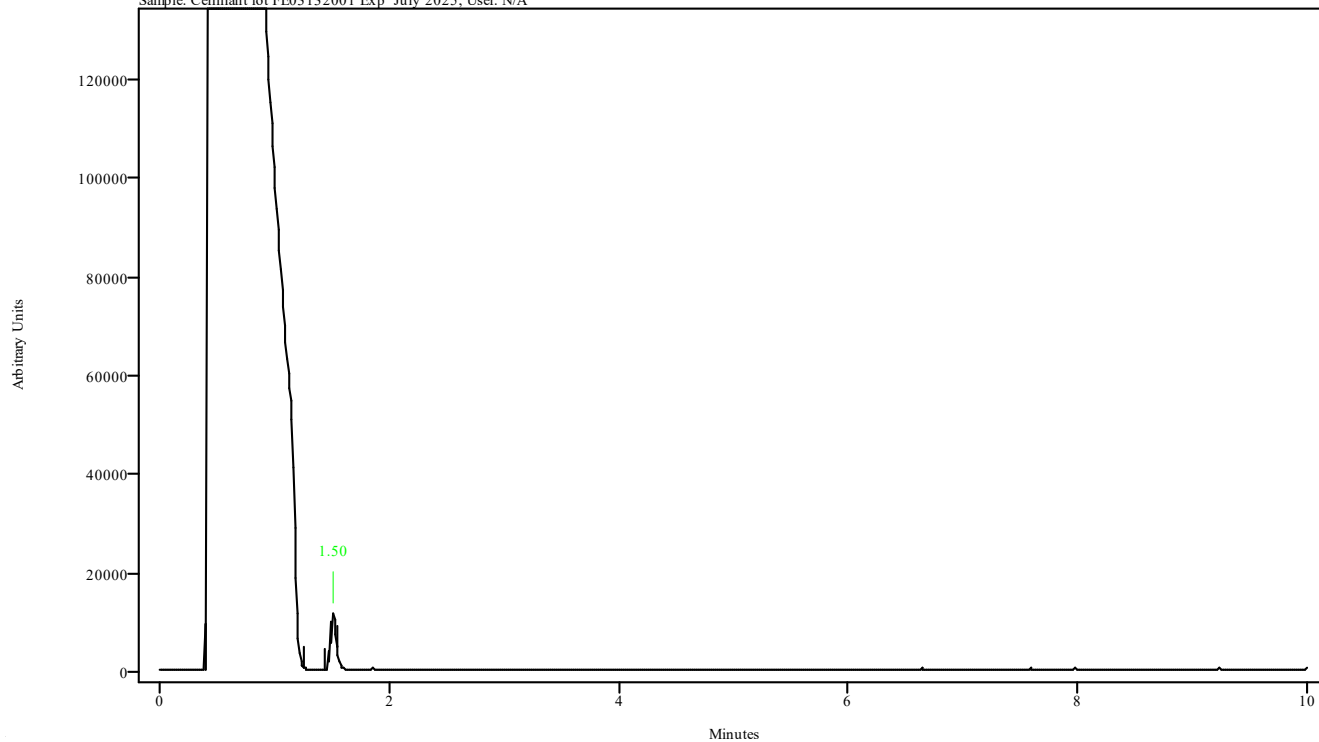


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

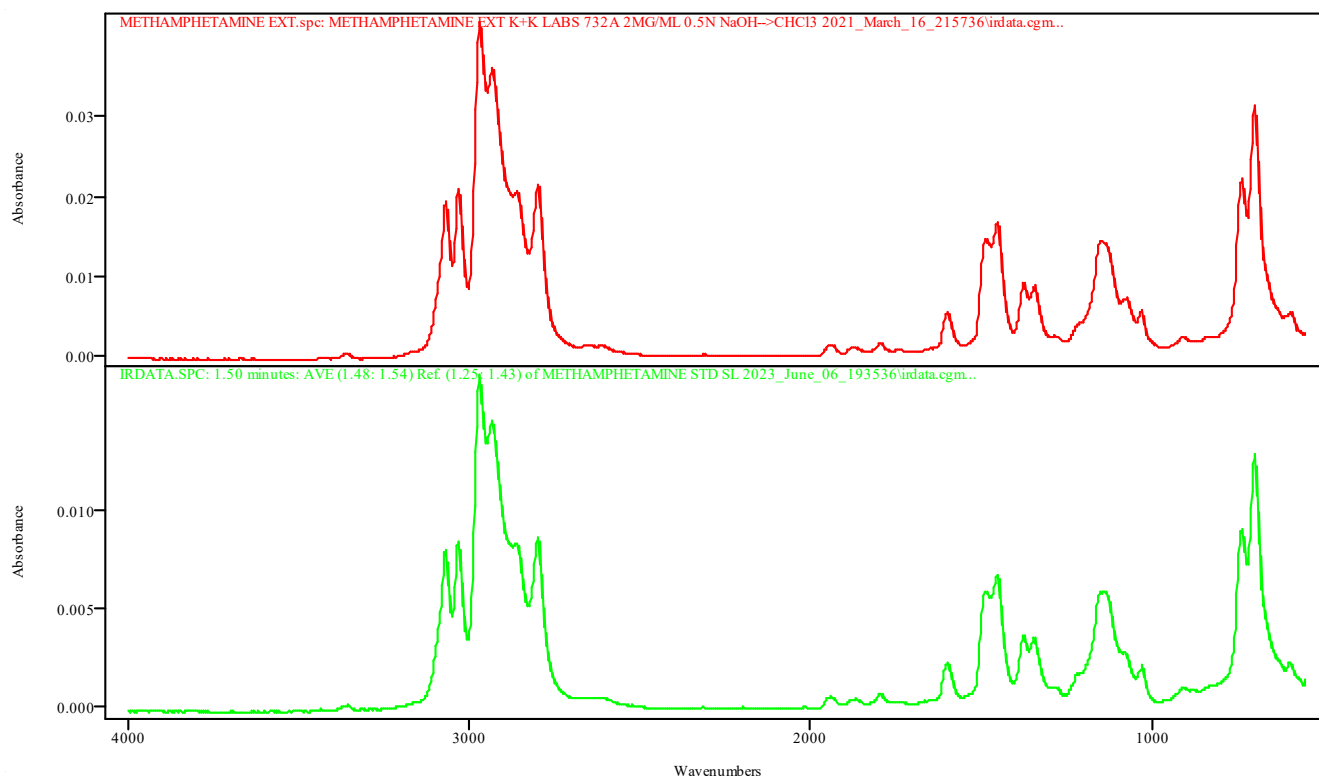
Data Filename	METHAMPHETAMINE STD SL 2023_June_06_193536
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	8
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:47:37 2023
Date Processed	Mon Jun 12 07:24:52 2023

irdata.cgm: METHAMPHETAMINE STD SL 2023_June_06_193536\irdata.cgm : Misc. Info: Acetonitrile:Curie;
Sample: Cerilliant lot FE03132001 Exp July 2025; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
1.482	1.538	0.056	1.251	1.426

Data Filename	METHAMPHETAMINE STD SL 2023_June_06_193536
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	8
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:47:37 2023
Date Processed	Mon Jun 12 07:24:52 2023



IRDATA.SPC: 1.50 minutes: AVE (1.48: 1.54) Ref. (1.25: 1.43) of METHAMPHETAMINE STD SL 2023_June_06_193536.cgm

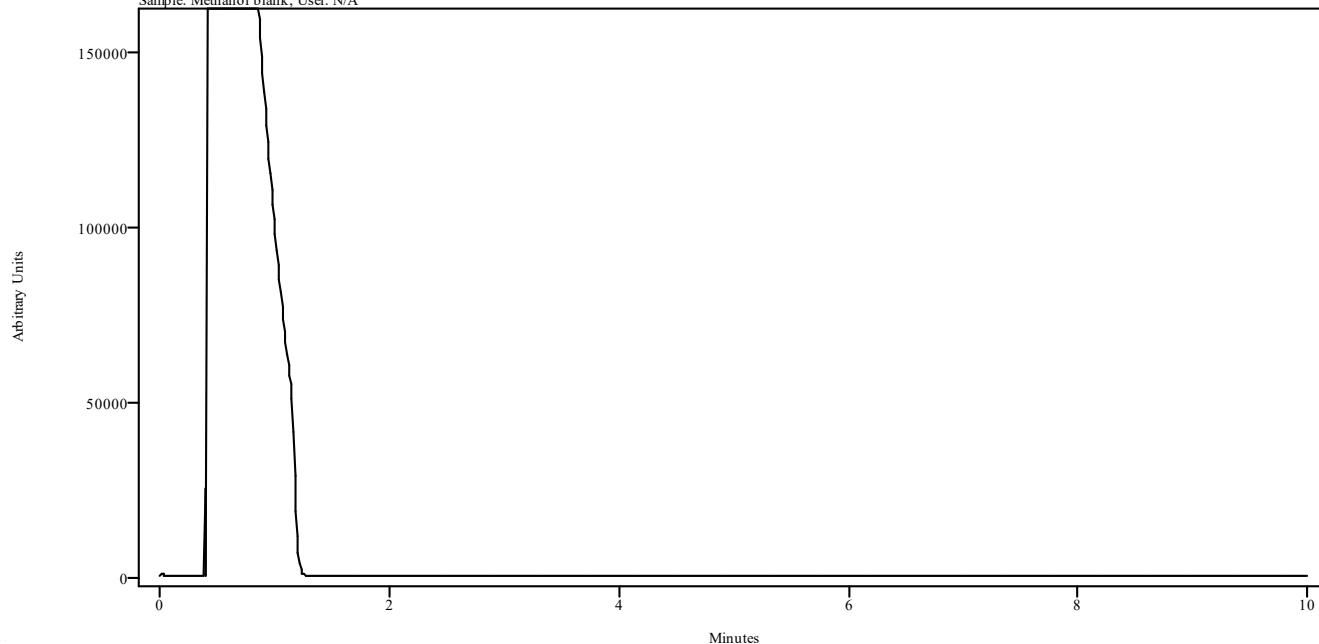
METHAMPHETAMINE EXT.spc: METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.999545	METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	40: METHAMPHETAMINE EXT.spc

IRD Data Analysis Report

Data Filename	METHAMPHETAMINE MB SL 2023_June_06_192145
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 19:33:36 2023
Date Processed	Mon Jun 12 07:25:03 2023

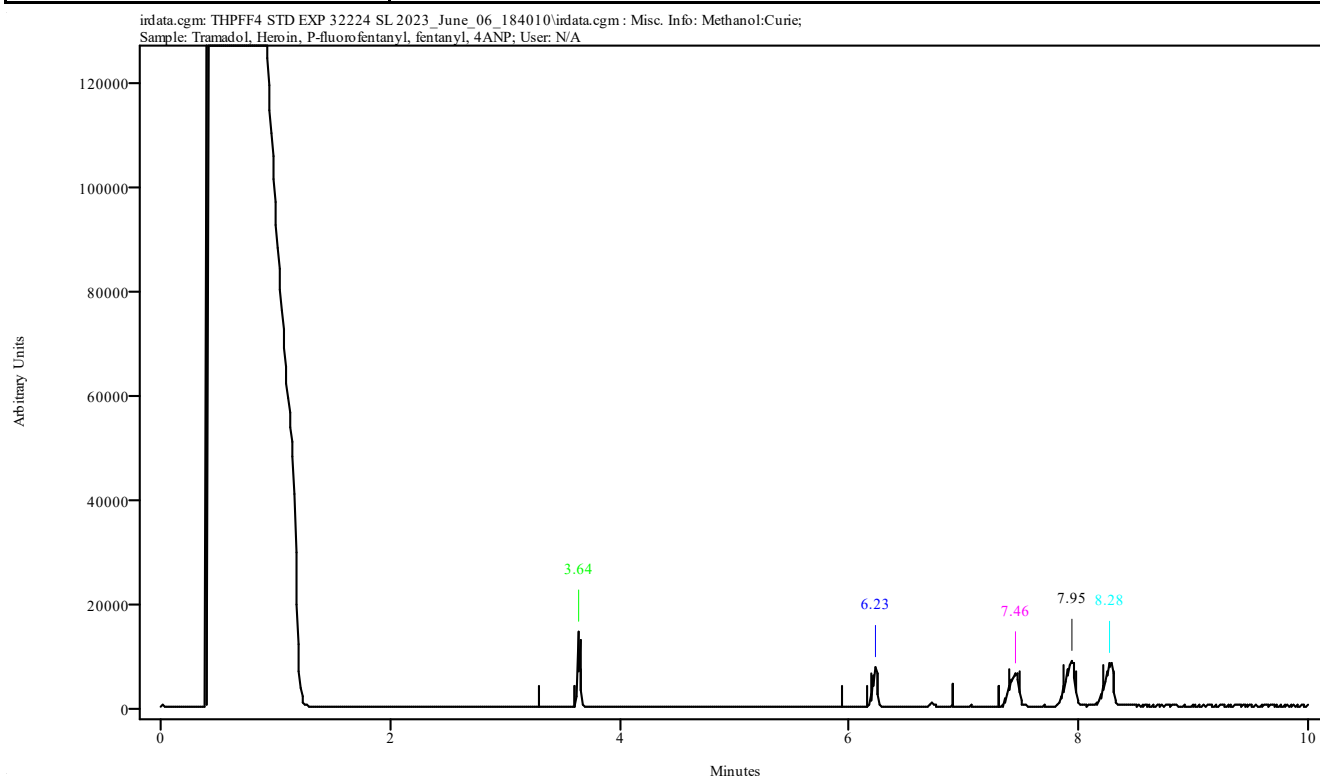
irdata.cgm: METHAMPHETAMINE MB SL 2023_June_06_192145\irdata.cgm: Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
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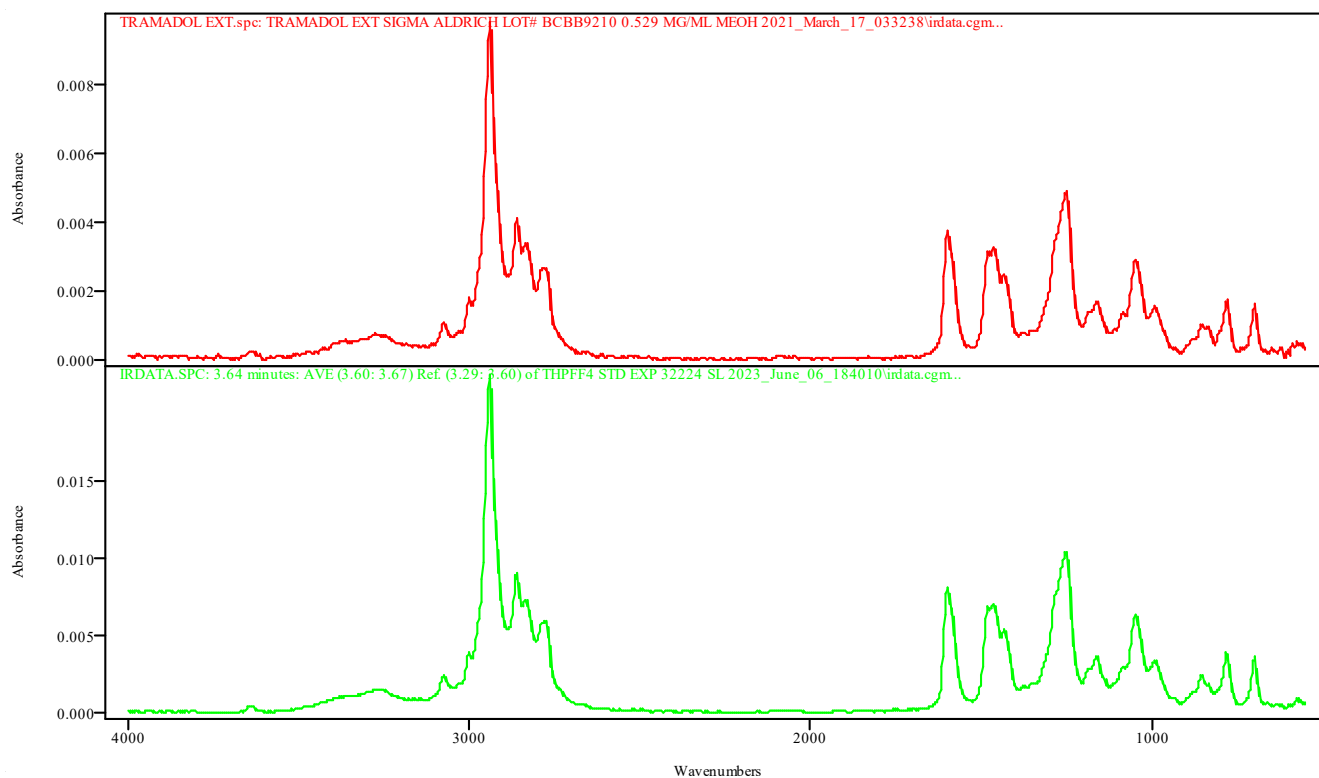
IRD Data Analysis Report

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.600	3.667	0.067	3.288	3.600
6.197	6.253	0.056	5.929	6.152
7.389	7.490	0.100	6.910	7.311
7.880	7.980	0.100	6.910	7.311
8.225	8.314	0.089	6.910	7.311

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANPP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023

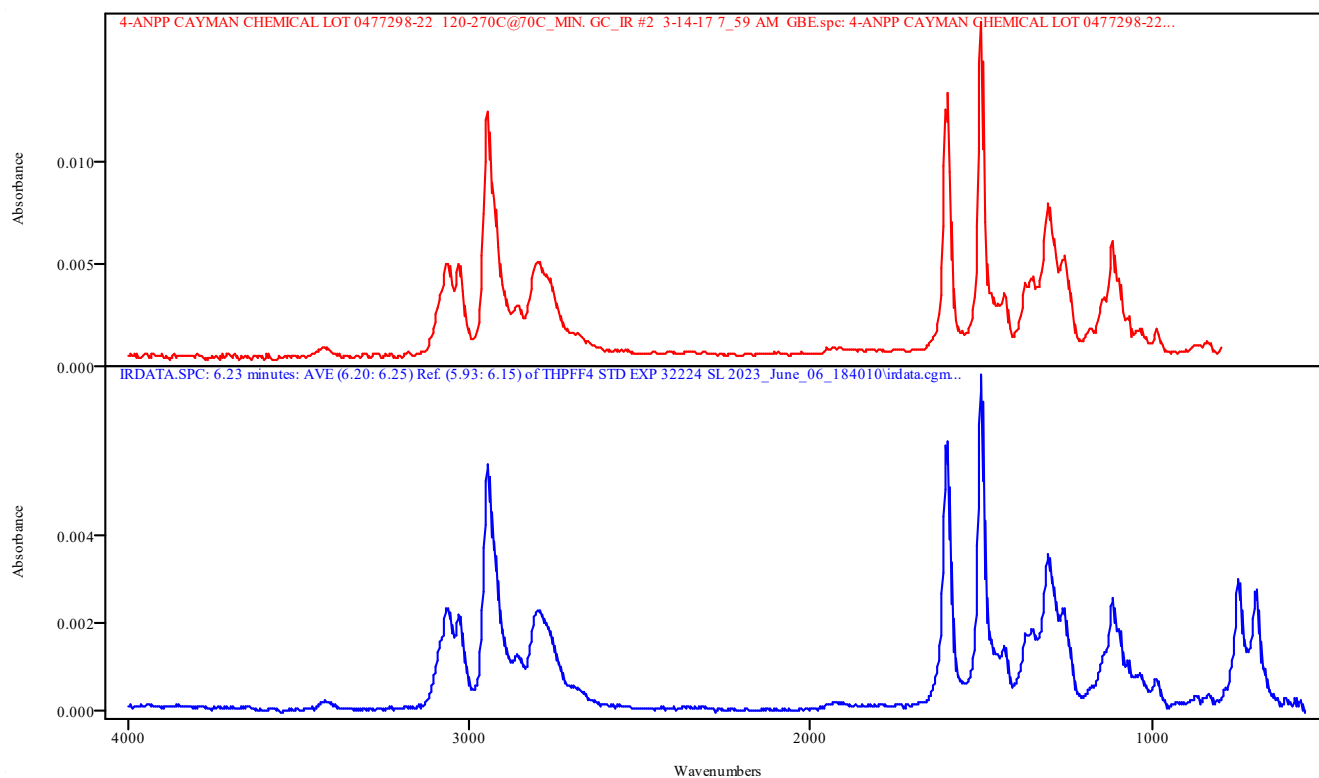


IRDATA.SPC: 3.64 minutes: AVE (3.60: 3.67) Ref. (3.29: 3.60) of THPFF4 STD EXP 32224 SL 2023_June_06_184010.cgm

TRAMADOL EXT.spc: TRAMADOL EXT SIGMA ALDRICH LOT# BCB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm

Metric	Name	Library	Entry
0.998973	TRAMADOL EXT SIGMA ALDRICH LOT# BCB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm	TBI GCIR EXT BH	63: TRAMADOL EXT.spc

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANPP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023

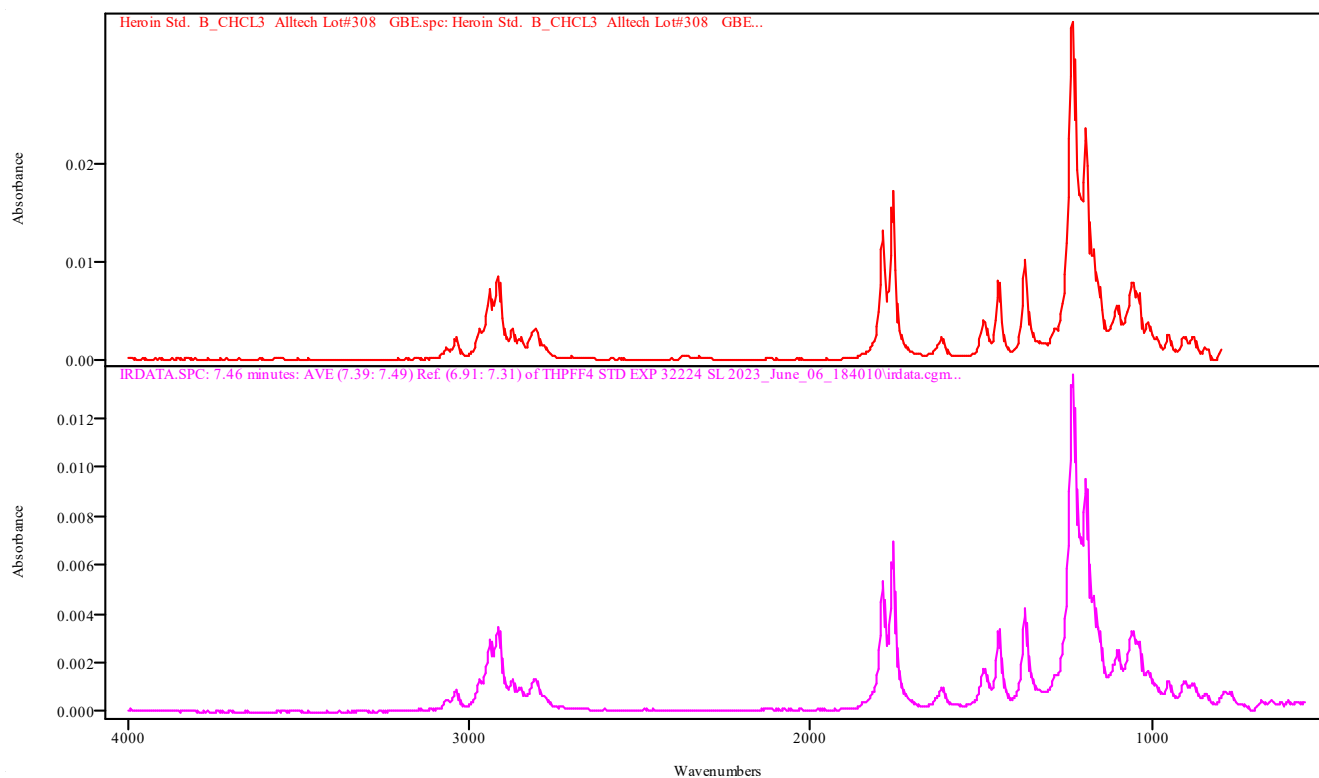


IRDATA.SPC: 6.23 minutes: AVE (6.20: 6.25) Ref. (5.93: 6.15) of THPFF4 STD EXP 32224 SL 2023_June_06_184010.cgm

4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE.spc: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE

Metric	Name	Library	Entry
0.996837	4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE	TBI GCIR combined Thermo generated libraries	355: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN . GC_IR #2 3-14-17 7_59 AM GBE.spc

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANPP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023

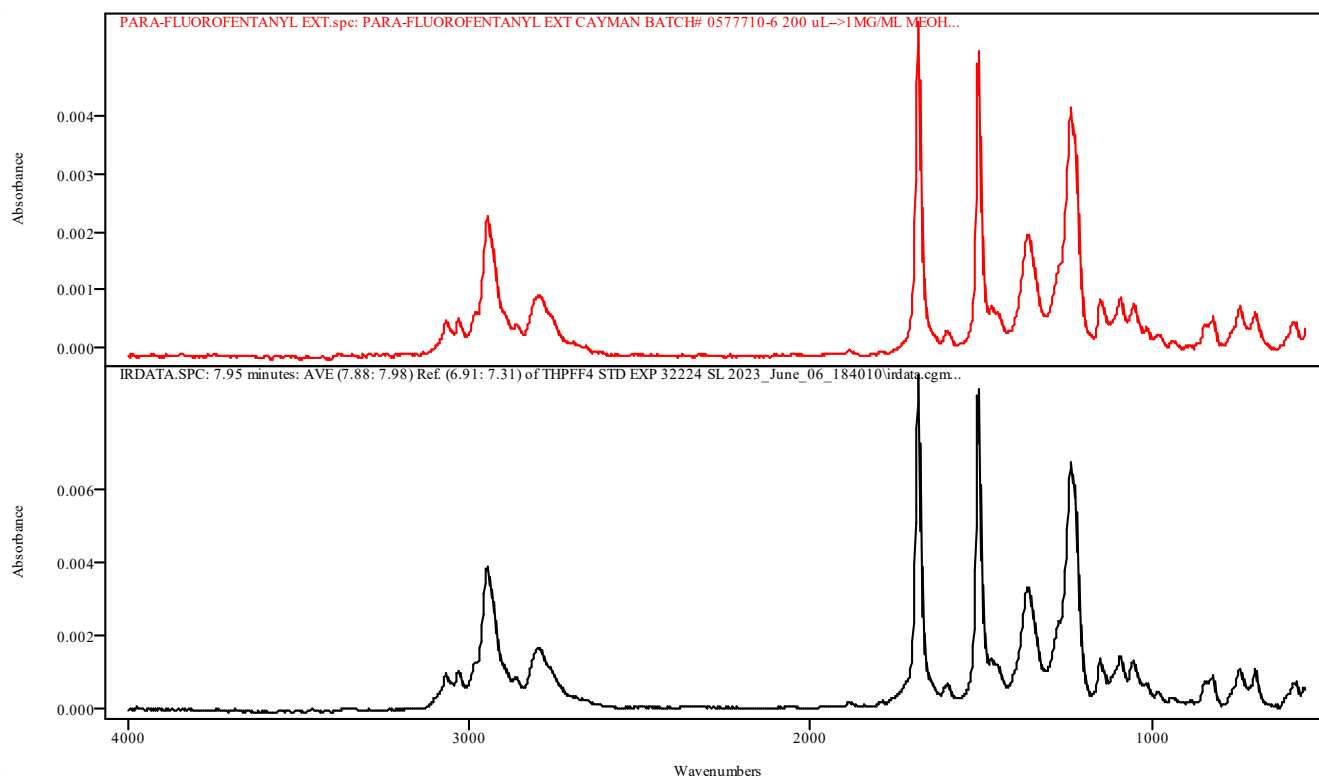


IRDATA.SPC: 7.46 minutes: AVE (7.39: 7.49) Ref. (6.91: 7.31) of THPFF4 STD EXP 32224 SL 2023_June_06_184010.cgm

Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc: Heroin Std. B_CHCL3 Alltech Lot#308 GBE

Metric	Name	Library	Entry
0.998125	Heroin Std. B_CHCL3 Alltech Lot#308 GBE	TBI GCIR combined Thermo generated libraries	245: Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANPP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023

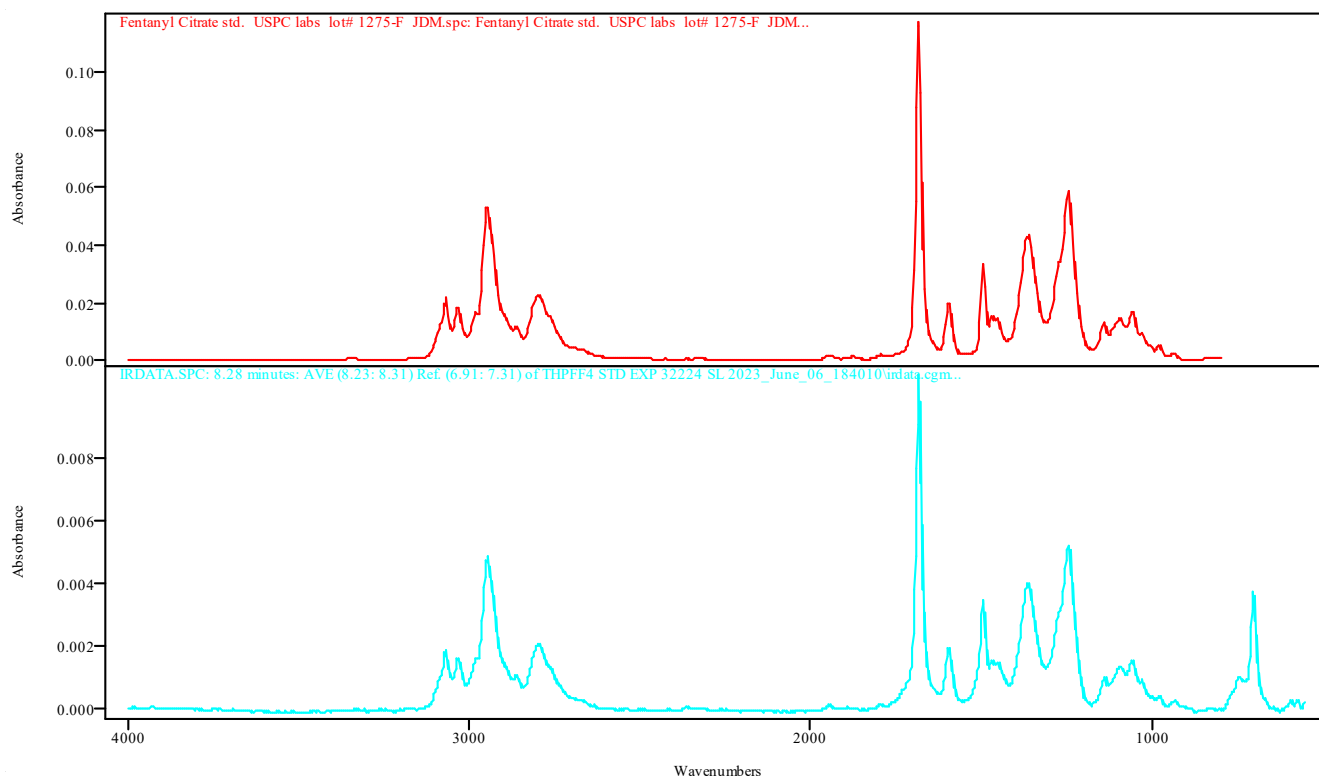


IRDATA.SPC: 7.95 minutes: AVE (7.88: 7.98) Ref. (6.91: 7.31) of THPFF4 STD EXP 32224 SL 2023_June_06_184010.cgm

PARA-FLUOROFENTANYL EXT.spc: PARA-FLUOROFENTANYL EXT CAYMAN BATCH# 0577710-6 200 uL-->1MG/ML MEOH 2021_April_19_233049\irdata.cgm

Metric	Name	Library	Entry
0.996573	PARA-FLUOROFENTANYL EXT CAYMAN BATCH# 0577710-6 200 uL-->1MG/ML MEOH 2021_April_19_233049\irdata.cgm	TBI GCIR EXT BH	53: PARA-FLUOROFENTANYL EXT.spc

Data Filename	THPFF4 STD EXP 32224 SL 2023_June_06_184010
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANPP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:52:01 2023
Date Processed	Mon Jun 12 07:46:35 2023



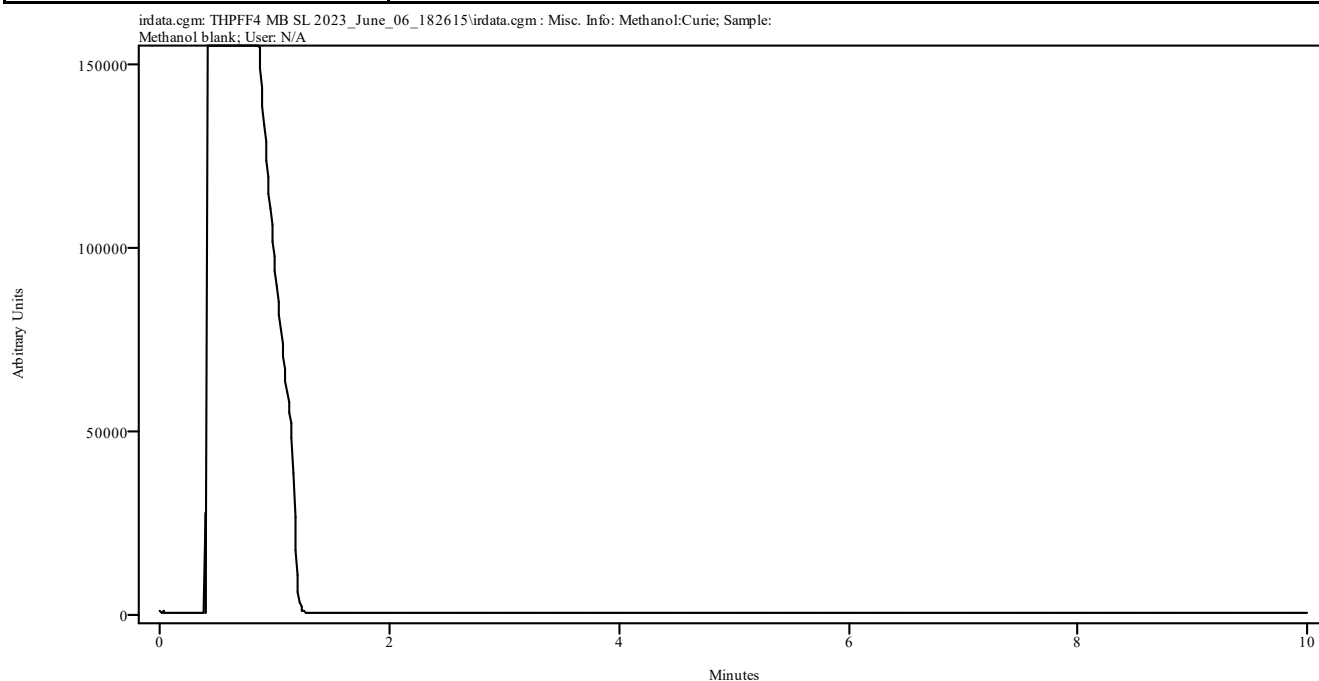
IRDATA.SPC: 8.28 minutes: AVE (8.23: 8.31) Ref. (6.91: 7.31) of THPFF4 STD EXP 32224 SL 2023_June_06_184010.cgm

Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc: Fentanyl Citrate std. USPC labs lot# 1275-F JDM

Metric	Name	Library	Entry
0.995816	Fentanyl Citrate std. USPC labs lot# 1275-F JDM	TBI GCIR combined Thermo generated libraries	182: Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc

IRD Data Analysis Report

Data Filename	THPFF4 MB SL 2023_June_06_182615
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	SLPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:38:09 2023
Date Processed	Mon Jun 12 07:49:05 2023

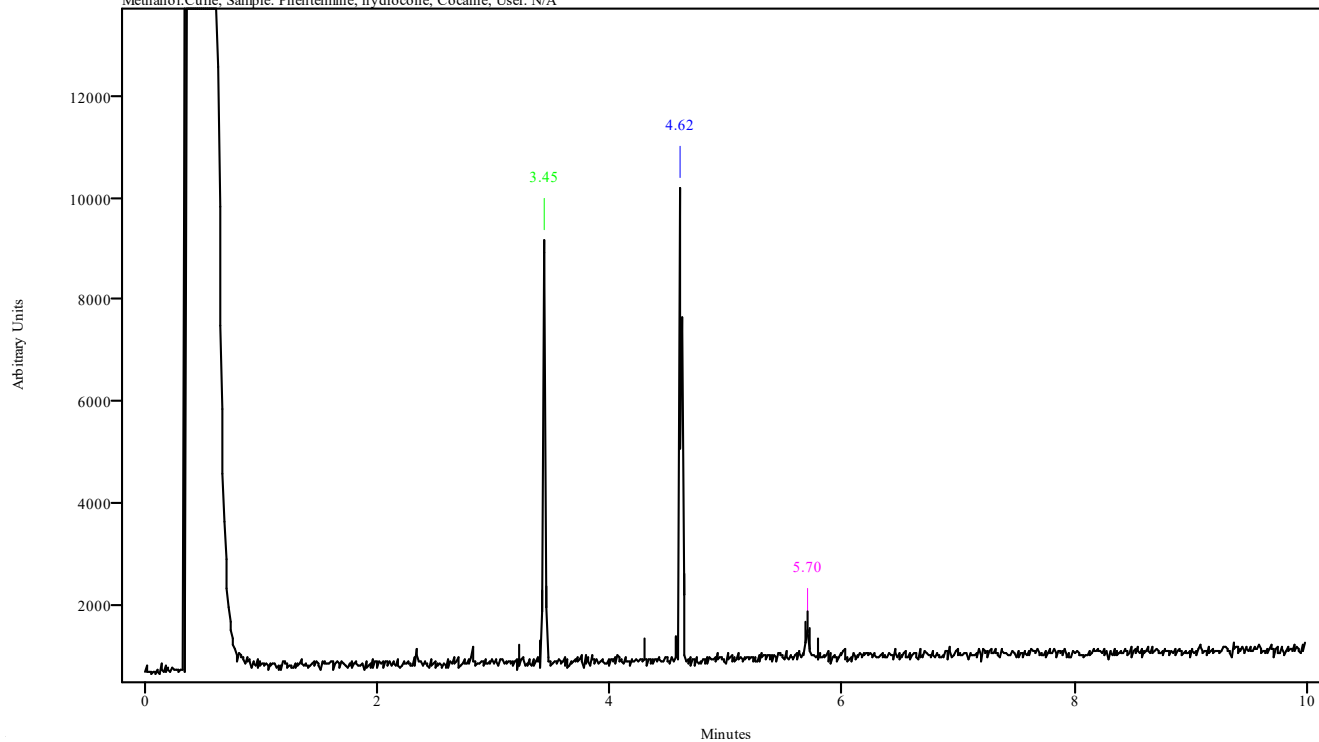


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

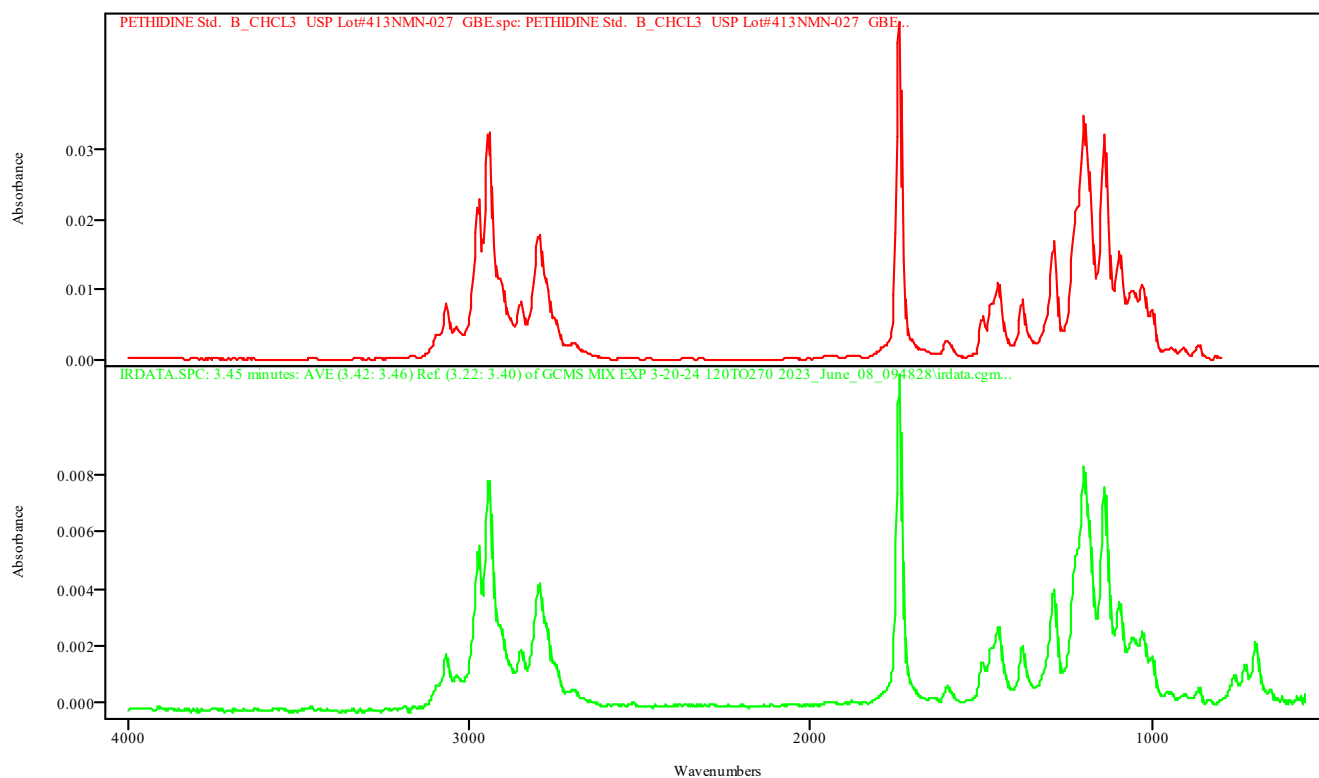
Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MAN120TO270
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 10:09:20 2023
Date Processed	Mon Jun 12 08:18:38 2023

irdata.cgm: GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828\irdata.cgm : Misc. Info:
Methanol:Curie; Sample: Phentermine, hydrocone, Cocaine; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.424	3.457	0.033	3.223	3.401
4.572	4.639	0.067	4.305	4.572
5.688	5.710	0.022	5.732	5.788

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MAN120TO270
GC Vial	5
Sample Name	Phentermine Phentermine, hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 10:09:20 2023
Date Processed	Mon Jun 12 08:18:38 2023

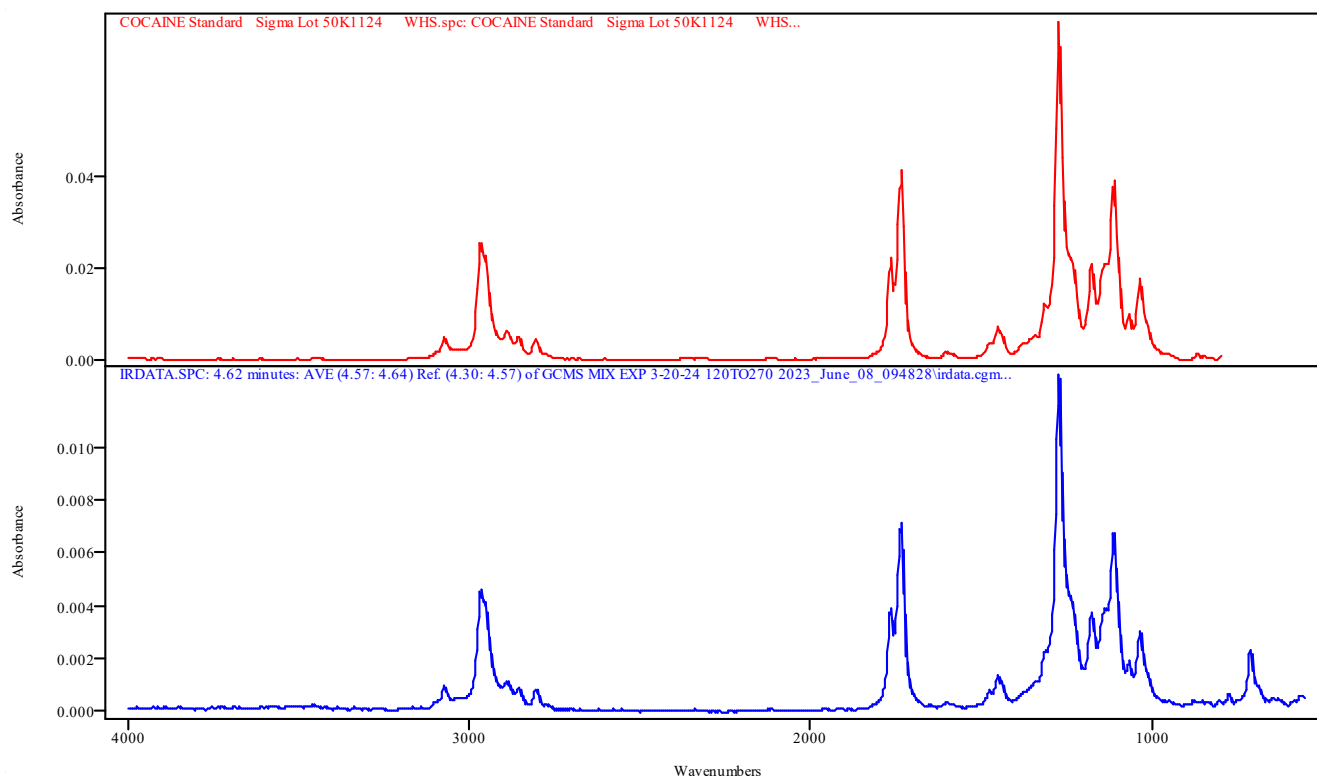


IRDATA.SPC: 3.45 minutes: AVE (3.42: 3.46) Ref. (3.22: 3.40) of GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828.cgm

PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE

Metric	Name	Library	Entry
0.997654	PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE	TBI GCIR combined Thermo generated libraries	444: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MAN120TO270
GC Vial	5
Sample Name	Phentermine Phentermine, hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 10:09:20 2023
Date Processed	Mon Jun 12 08:18:38 2023

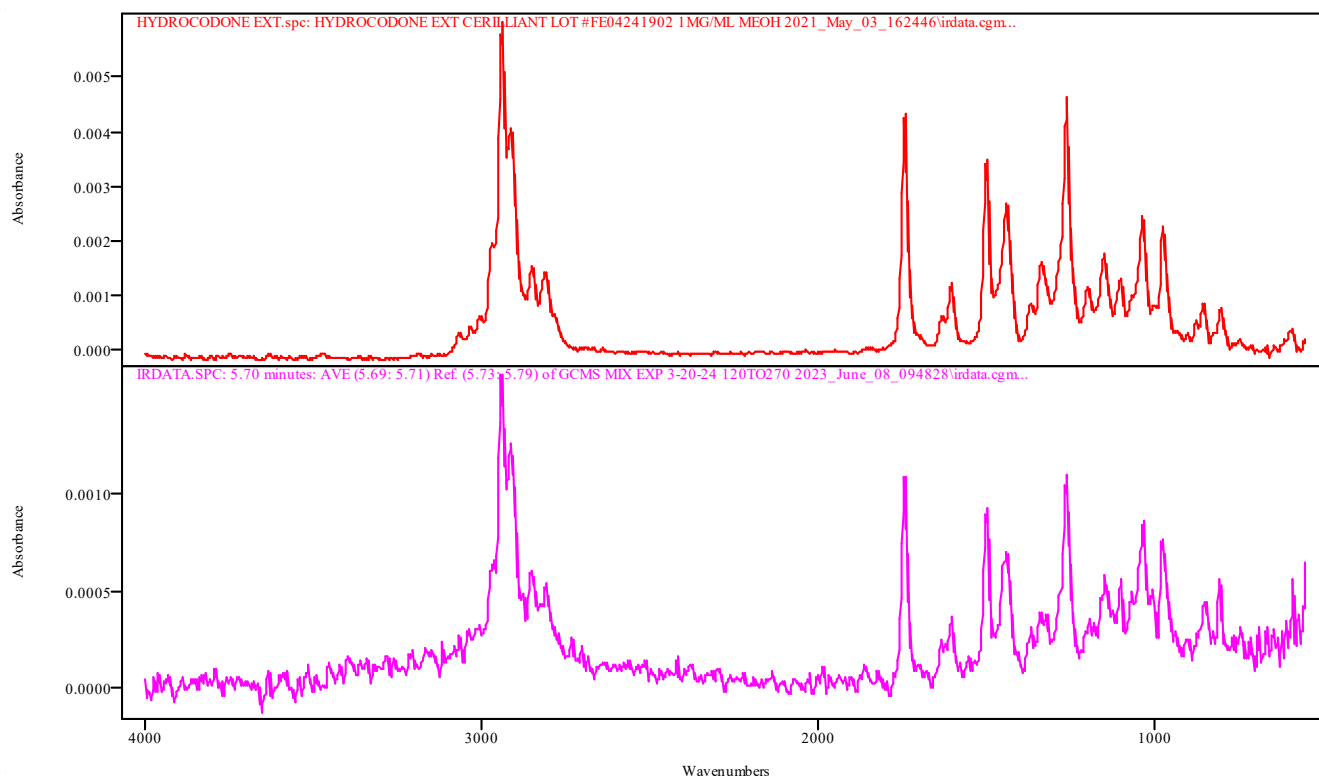


IRDATA.SPC: 4.62 minutes: AVE (4.57: 4.64) Ref. (4.30: 4.57) of GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.997876	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MAN120TO270
GC Vial	5
Sample Name	Phentermine hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 10:09:20 2023
Date Processed	Mon Jun 12 08:18:38 2023



IRDATA.SPC: 5.70 minutes: AVE (5.69: 5.71) Ref. (5.73: 5.79) of GCMS MIX EXP 3-20-24 120TO270 2023_June_08_094828.cgm

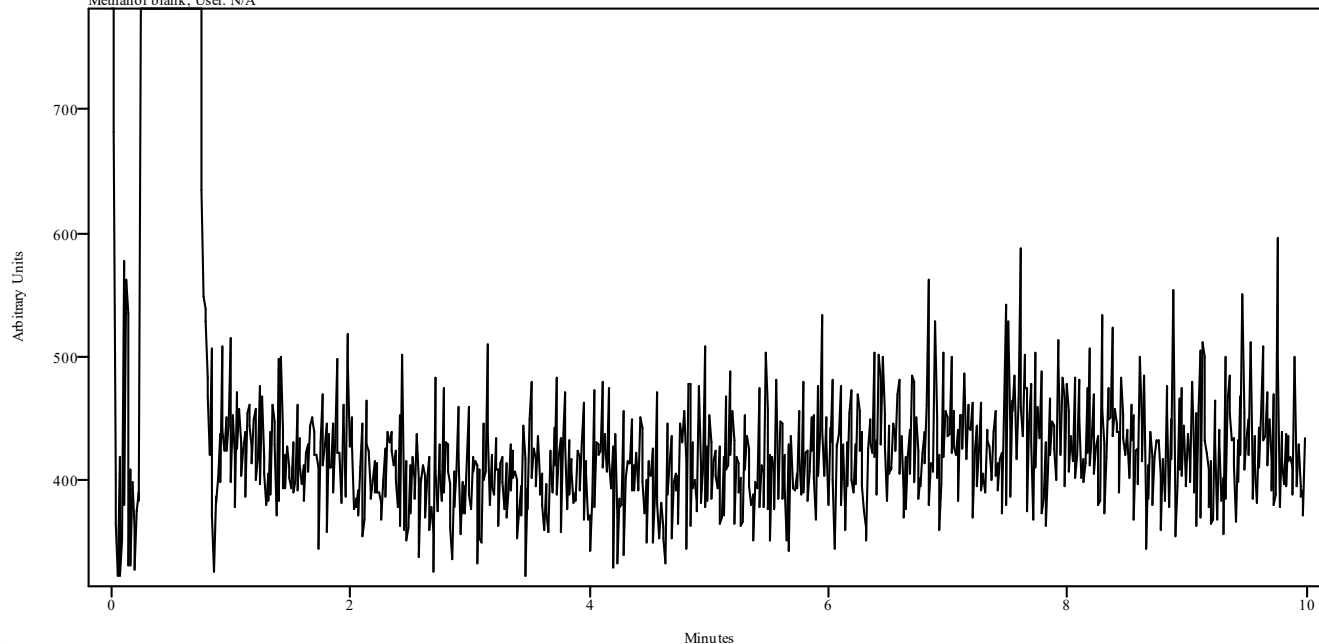
HYDROCODONE EXT.spc: HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm

Metric	Name	Library	Entry
0.939111	HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm	TBI GCIR EXT BH	34: HYDROCODONE EXT.spc

IRD Data Analysis Report

Data Filename	GCMS MIX MB 120TO270 2023_June_06_175830
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	120TO270
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 18:10:19 2023
Date Processed	Fri Jun 09 13:48:28 2023

irdata.cgm: GCMS MIX MB 120TO270 2023_June_06_175830\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

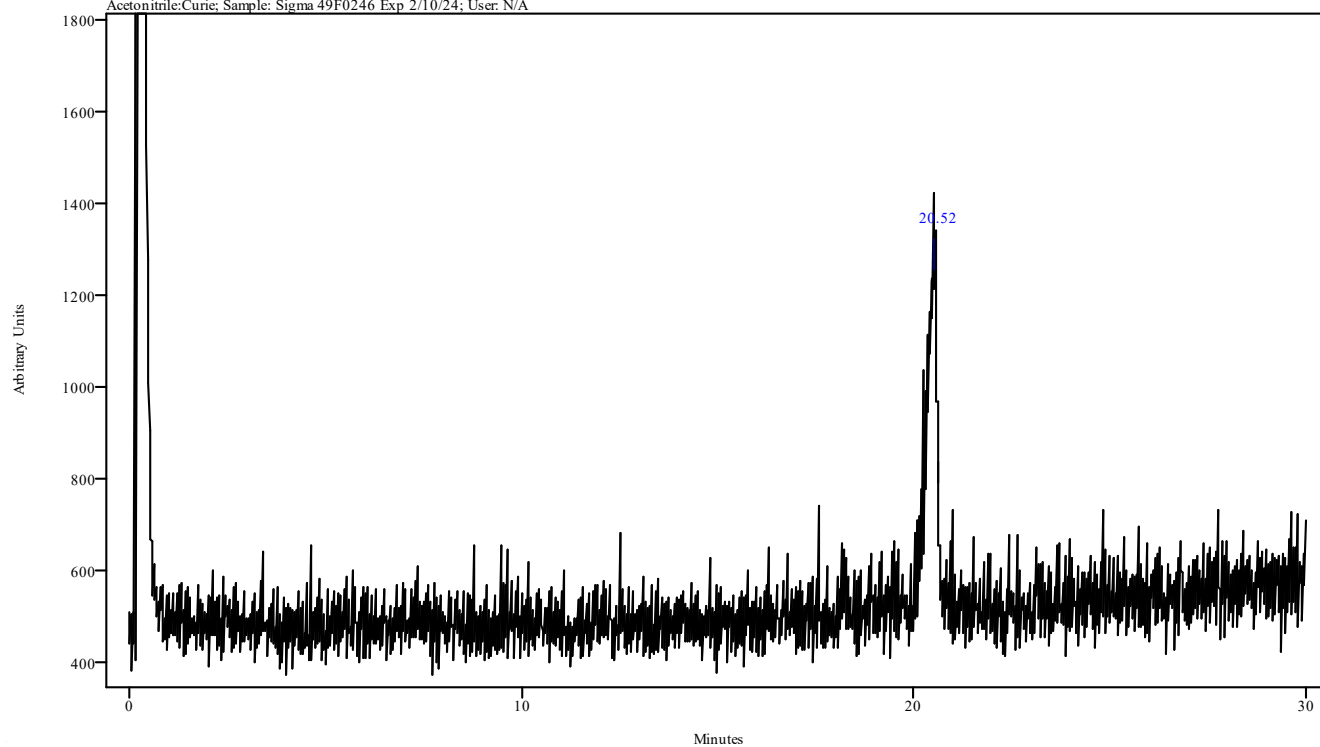


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

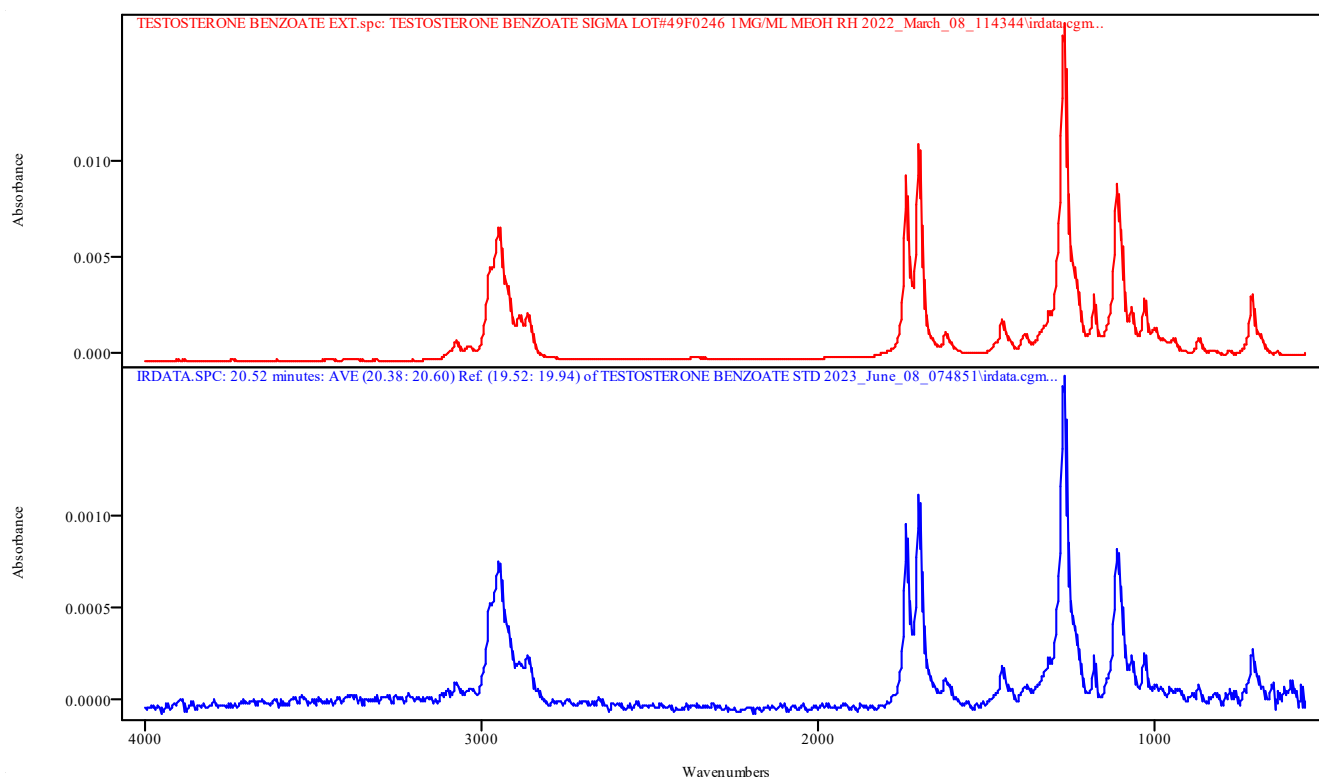
Data Filename	TESTOSTERONE BENZOATE STD 2023_June_08_074851
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Thu Jun 08 08:24:24 2023
Date Processed	Mon Jun 12 08:24:13 2023

irdata.cgm: TESTOSTERONE BENZOATE STD 2023_June_08_074851\irdata.cgm : Misc. Info:
Acetonitrile:Curie; Sample: Sigma 49F0246 Exp 2/10/24; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
20.449	20.604	0.156	19.520	19.941

Data Filename	TESTOSTERONE BENZOATE STD 2023_June_08_074851
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANISO270(30MIN)
GC Vial	11
Sample Name	Sigma 49F0246 Exp 2/10/24
Misc. Info	Acetonitrile:Curie
User ID	N/A
Injection Time	Thu Jun 08 08:24:24 2023
Date Processed	Mon Jun 12 08:24:13 2023



IRDATA.SPC: 20.52 minutes: AVE (20.38: 20.60) Ref. (19.52: 19.94) of TESTOSTERONE BENZOATE STD 2023_June_08_074851.cgm

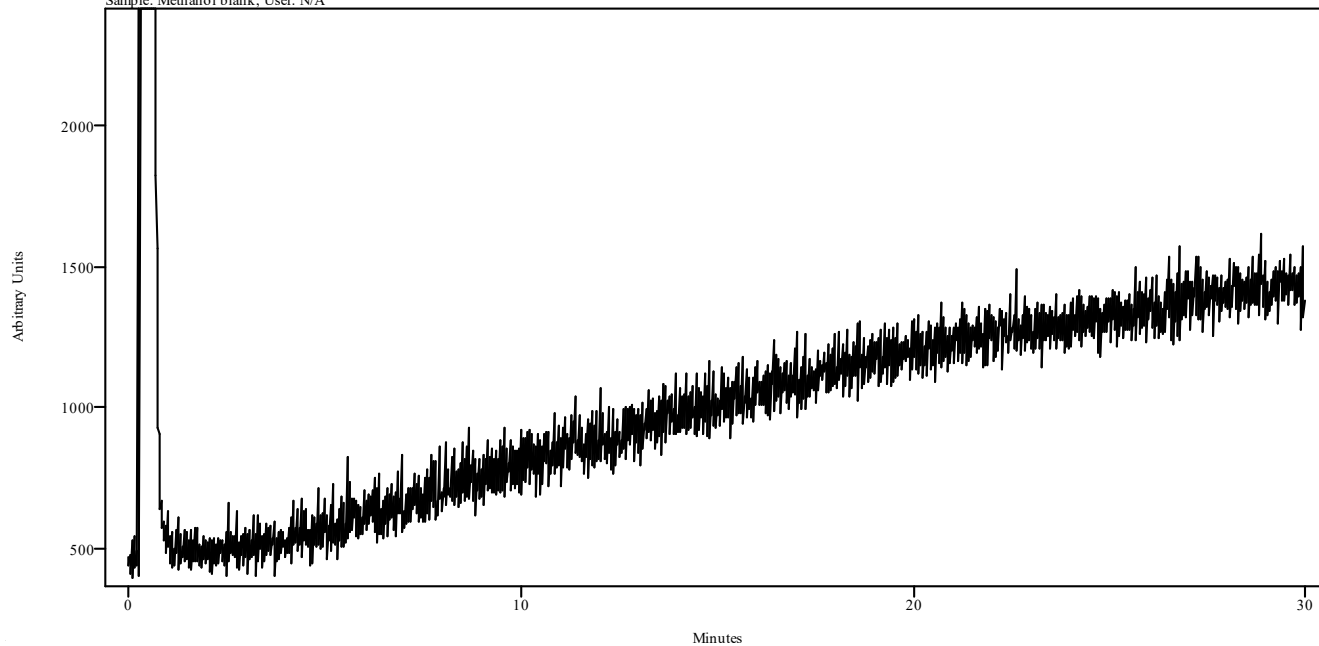
TESTOSTERONE BENZOATE EXT.spc: TESTOSTERONE BENZOATE SIGMA LOT#49F0246 1MG/ML MEOH RH 2022_March_08_114344\irdata.cgm

Metric	Name	Library	Entry
0.987534	TESTOSTERONE BENZOATE SIGMA LOT#49F0246 1MG/ML MEOH RH 2022_March_08_114344\irdata.cgm	TBI GCIR EXT BH	60: TESTOSTERONE BENZOATE EXT.spc

IRD Data Analysis Report

Data Filename	TESTOSTERONE BENZOATE MB CO 2023_June_08_071715
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANISO270(30MIN)
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 07:46:51 2023
Date Processed	Mon Jun 12 08:22:56 2023

irdata.cgm: TESTOSTERONE BENZOATE MB CO 2023_June_08_071715\irdata.cgm : Misc. Info: Methanol:Curie;
Sample: Methanol blank; User: N/A

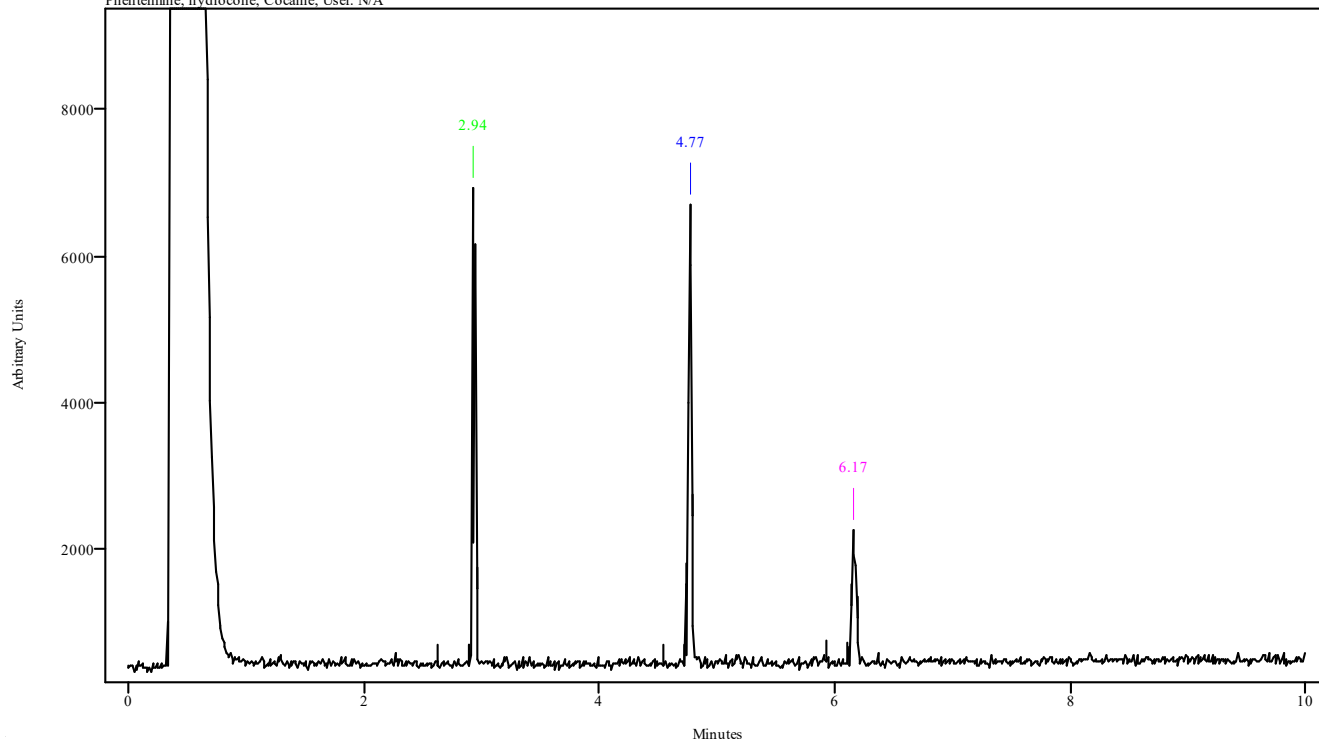


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

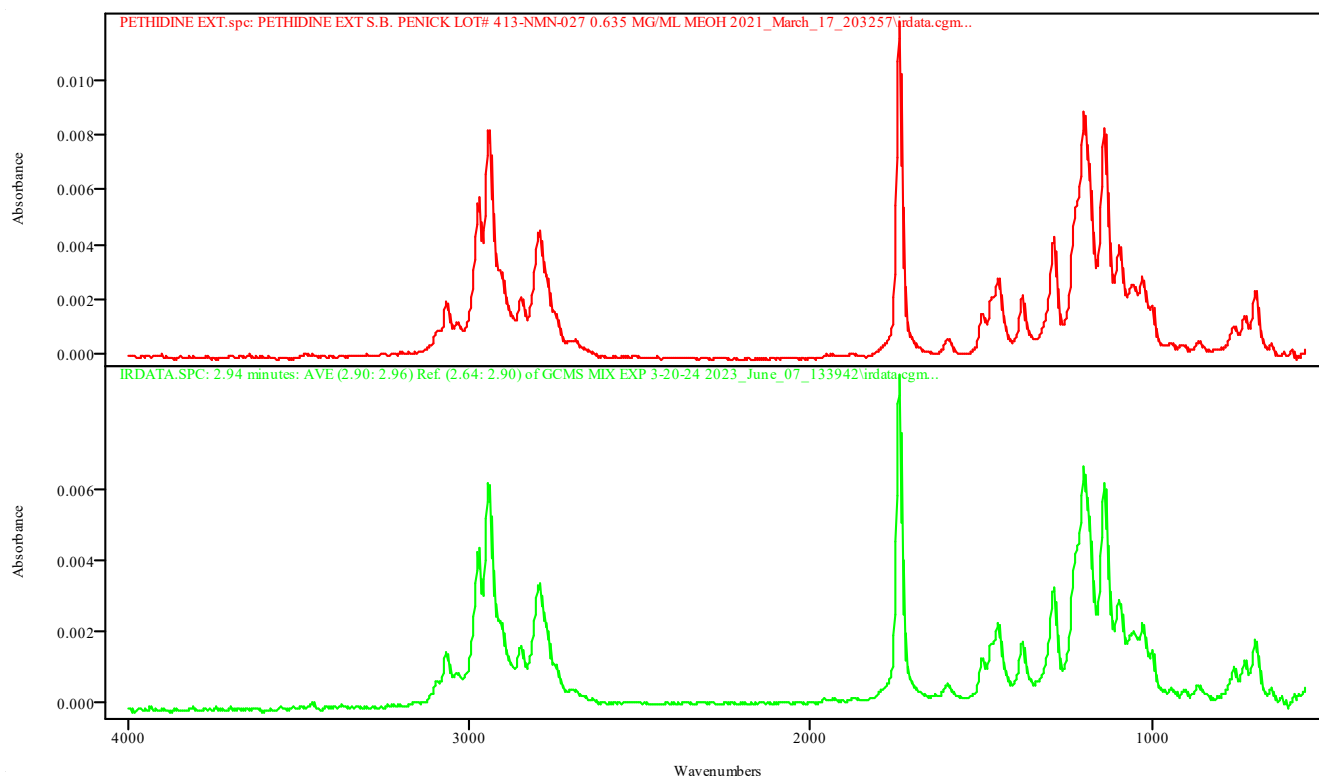
Data Filename	GCMS MIX EXP 3-20-24 2023_June_07_133942
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:50:26 2023
Date Processed	Mon Jun 12 07:58:03 2023

irdata.cgm: GCMS MIX EXP 3-20-24 2023_June_07_133942\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Phentermine, hydrocone, Cocaine; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.904	2.960	0.056	2.636	2.904
4.747	4.791	0.045	4.546	4.724
6.143	6.188	0.045	5.931	6.109

Data Filename	GCMS MIX EXP 3-20-24 2023_June_07_133942
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:50:26 2023
Date Processed	Mon Jun 12 07:58:03 2023

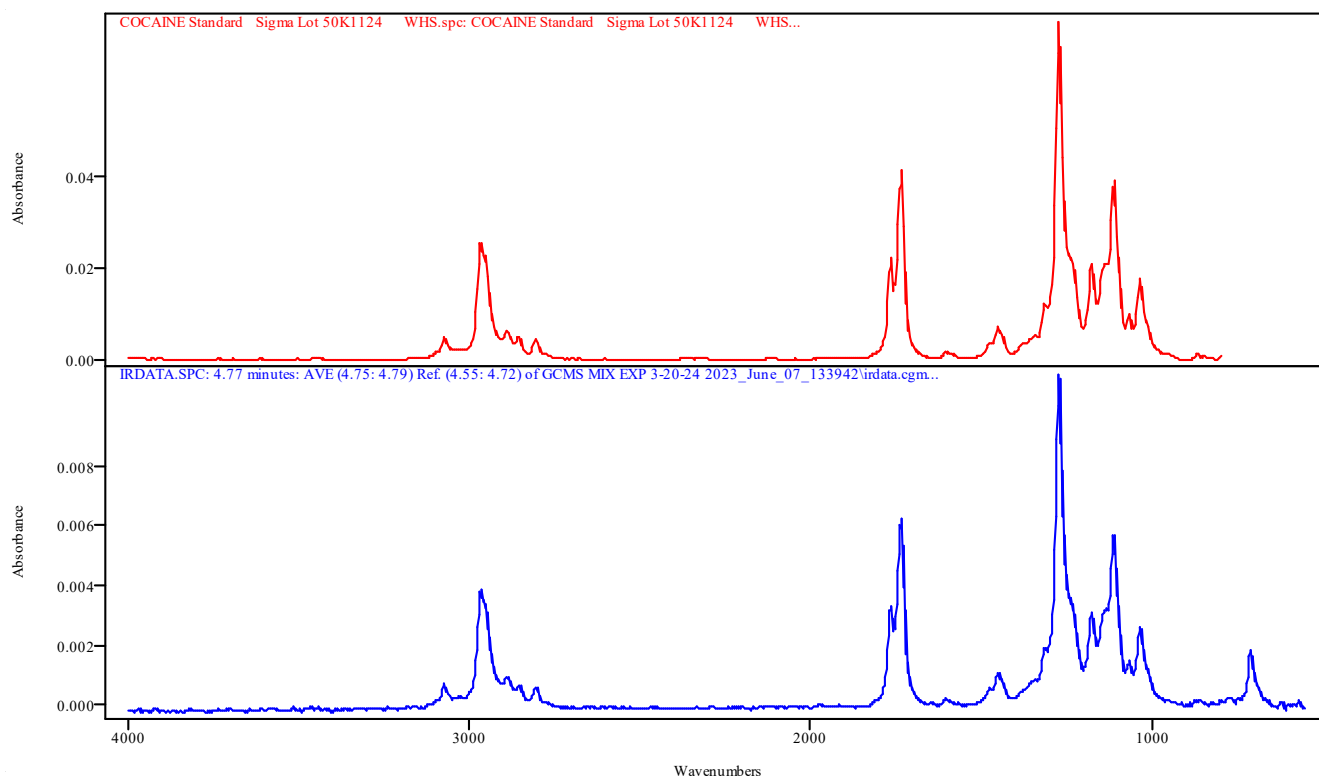


IRDATA.SPC: 2.94 minutes: AVE (2.90: 2.96) Ref. (2.64: 2.90) of GCMS MIX EXP 3-20-24 2023_June_07_133942.cgm

PETHIDINE EXT.spc: PETHIDINE EXT S.B. PENICK LOT# 413-NMN-027 0.635 MG/ML MEOH 2021_March_17_203257\irdata.cgm

Metric	Name	Library	Entry
0.996474	PETHIDINE EXT S.B. PENICK LOT# 413-NMN-027 0.635 MG/ML MEOH 2021_March_17_203257\irdata.cgm	TBI GCIR EXT BH	55: PETHIDINE EXT.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_07_133942
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:50:26 2023
Date Processed	Mon Jun 12 07:58:03 2023

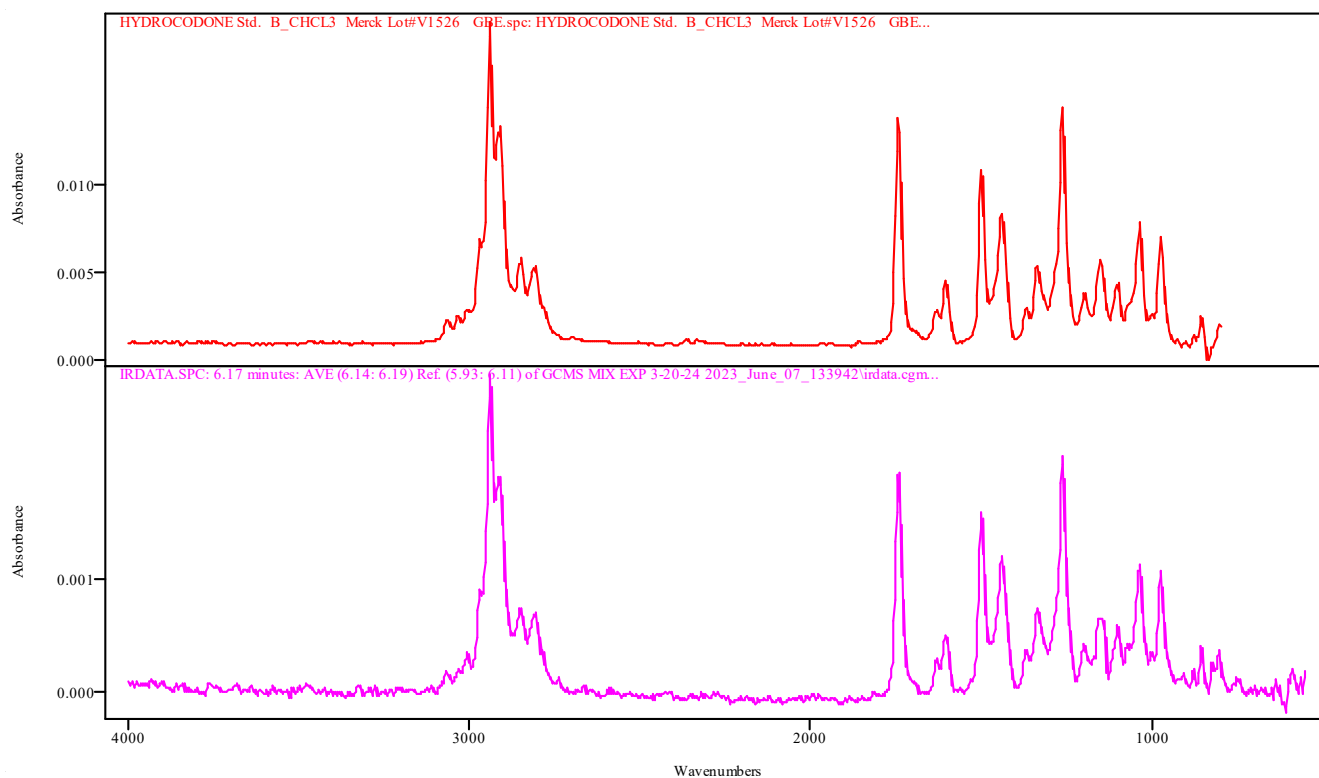


IRDATA.SPC: 4.77 minutes: AVE (4.75: 4.79) Ref. (4.55: 4.72) of GCMS MIX EXP 3-20-24 2023_June_07_133942.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.997765	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_07_133942
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:50:26 2023
Date Processed	Mon Jun 12 07:58:03 2023



IRDATA.SPC: 6.17 minutes: AVE (6.14: 6.19) Ref. (5.93: 6.11) of GCMS MIX EXP 3-20-24 2023_June_07_133942.cgm

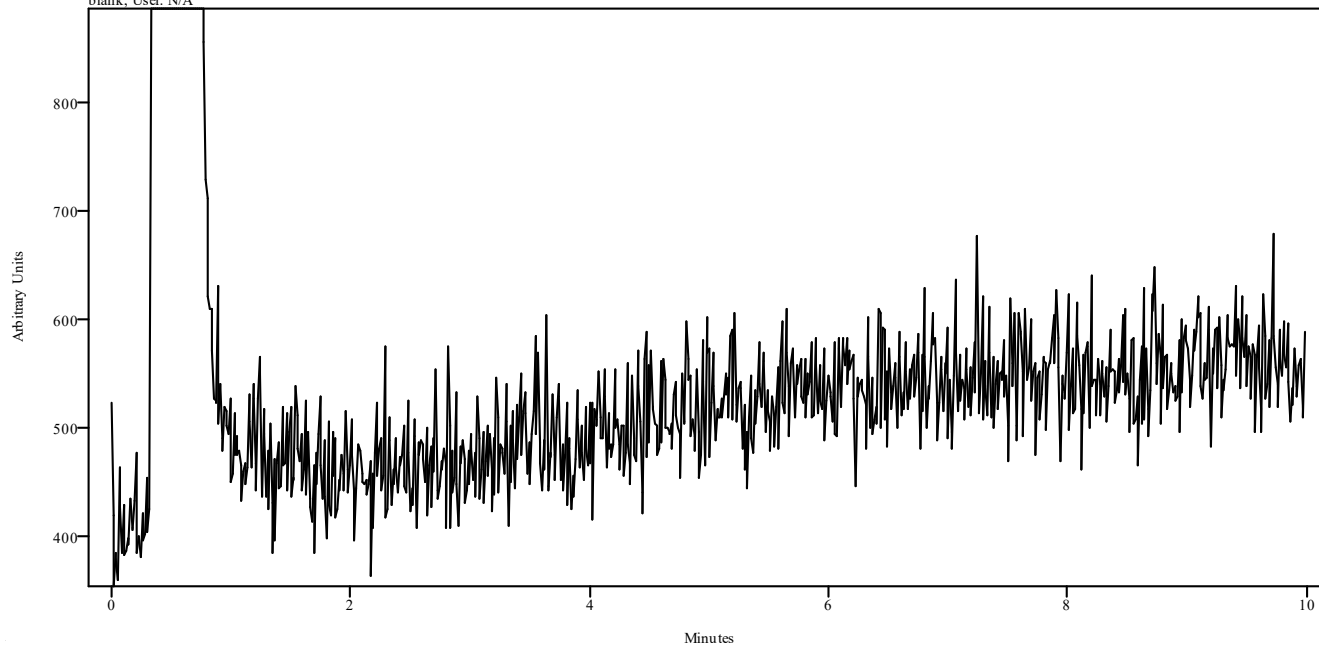
HYDROCODONE Std. B_CHCL3 Merck Lot#V1526 GBE.spc: HYDROCODONE Std. B_CHCL3 Merck Lot#V1526 GBE

Metric	Name	Library	Entry
0.990039	HYDROCODONE Std. B_CHCL3 Merck Lot#V1526 GBE	TBI GCIR combined Thermo generated libraries	30: HYDROCODONE Std. B_CHCL3 Merck Lot#V1526 GBE.spc

IRD Data Analysis Report

Data Filename	GCMS MIX MB 2023_June_07_131916
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:37:42 2023
Date Processed	Mon Jun 12 07:58:09 2023

irdata.cgm: GCMS MIX MB 2023_June_07_131916\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

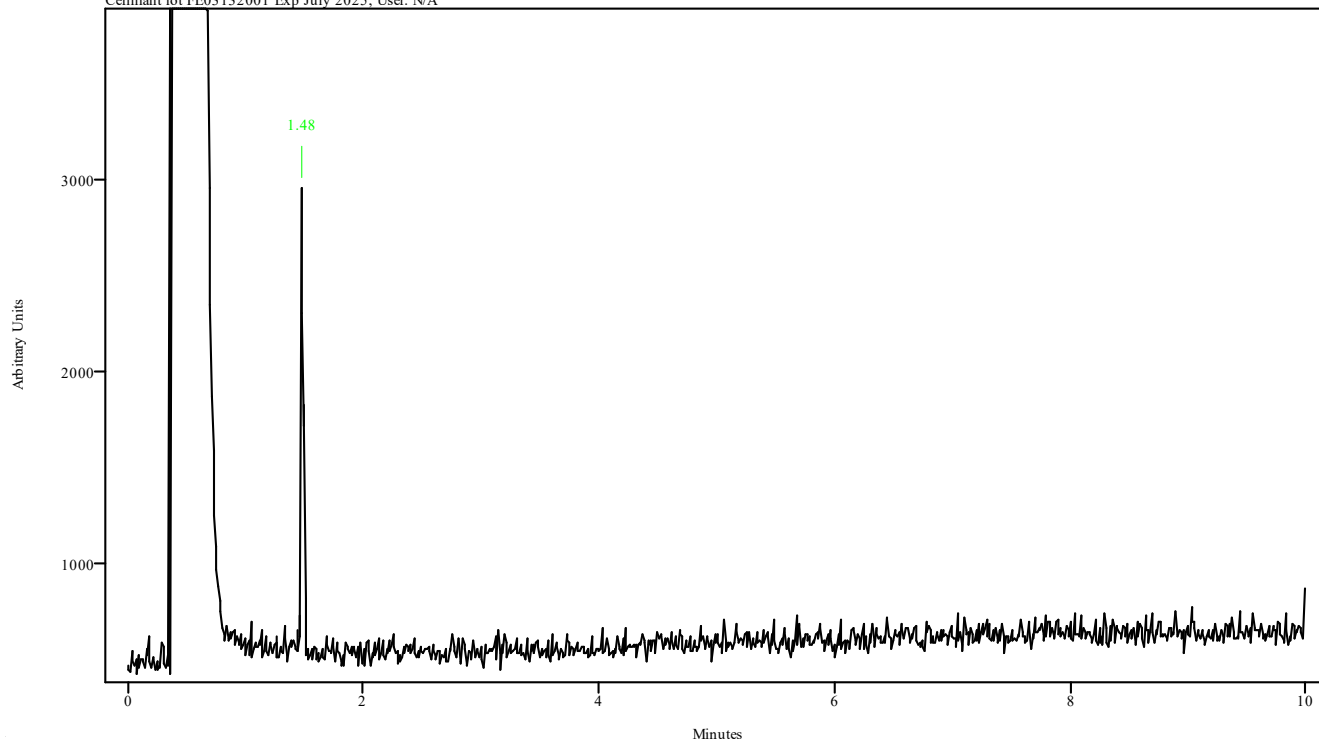


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

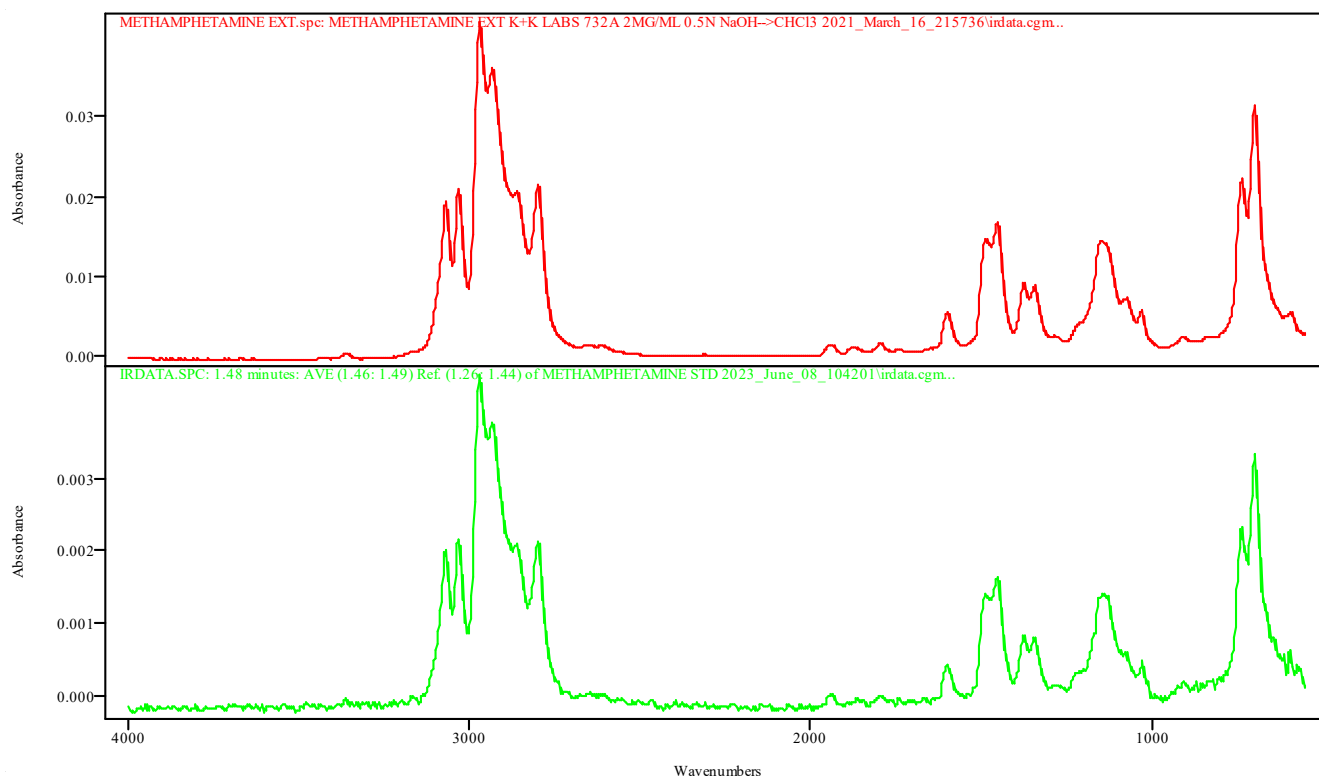
Data Filename	METHAMPHETAMINE STD 2023_June_08_104201
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	1
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 11:05:02 2023
Date Processed	Mon Jun 12 08:27:14 2023

irdata.cgm: METHAMPHETAMINE STD 2023_June_08_104201\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Cerilliant lot FE03132001 Exp July 2025; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
1.460	1.493	0.033	1.259	1.438

Data Filename	METHAMPHETAMINE STD 2023_June_08_104201
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	1
Sample Name	Cerilliant lot FE03132001 Exp July 2025
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 11:05:02 2023
Date Processed	Mon Jun 12 08:27:14 2023



IRDATA.SPC: 1.48 minutes: AVE (1.46: 1.49) Ref. (1.26: 1.44) of METHAMPHETAMINE STD 2023_June_08_104201.cgm

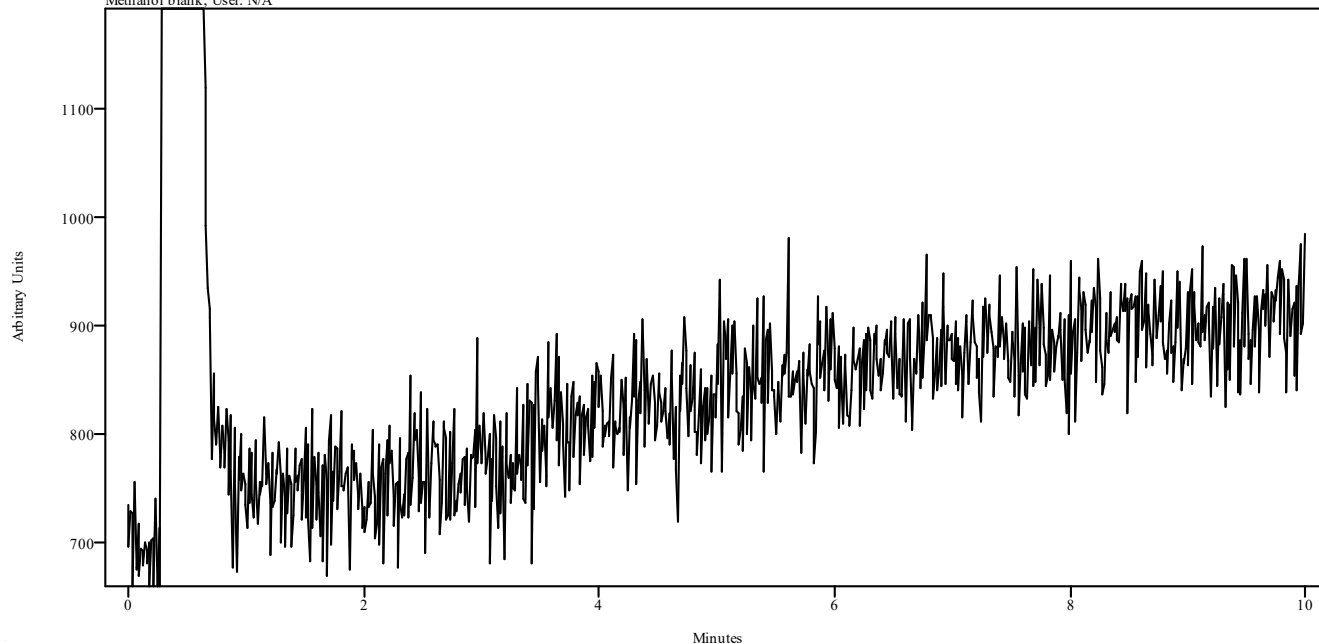
METHAMPHETAMINE EXT.spc: METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm

Metric	Name	Library	Entry
0.998306	METHAMPHETAMINE EXT K+K LABS 732A 2MG/ML 0.5N NaOH-->CHCl3 2021_March_16_215736\irdata.cgm	TBI GCIR EXT BH	40: METHAMPHETAMINE EXT.spc

IRD Data Analysis Report

Data Filename	METHAMPHETAMINE MB 2023_June_08_101119
Data Path	X:/CURIE 2023/LJ/06-08-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Thu Jun 08 10:40:01 2023
Date Processed	Mon Jun 12 08:28:16 2023

irdata.cgm: METHAMPHETAMINE MB 2023_June_08_101119\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

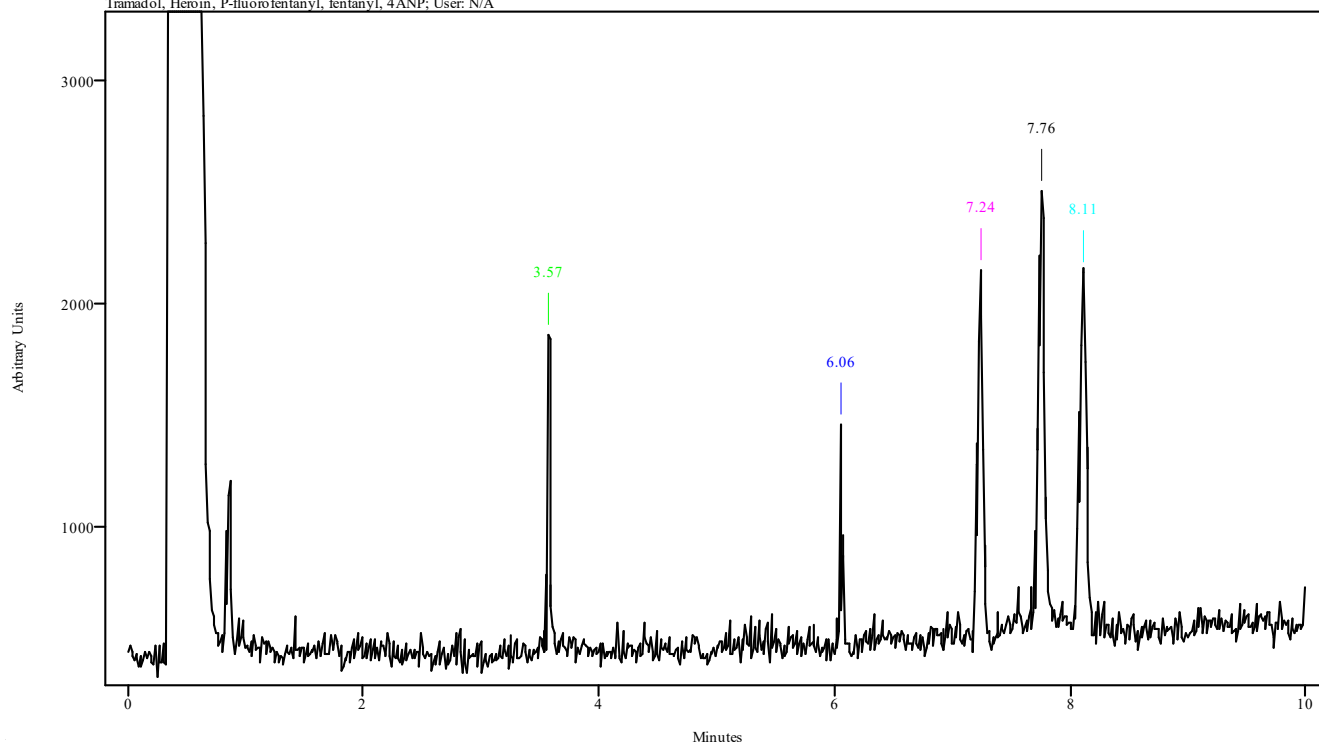


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

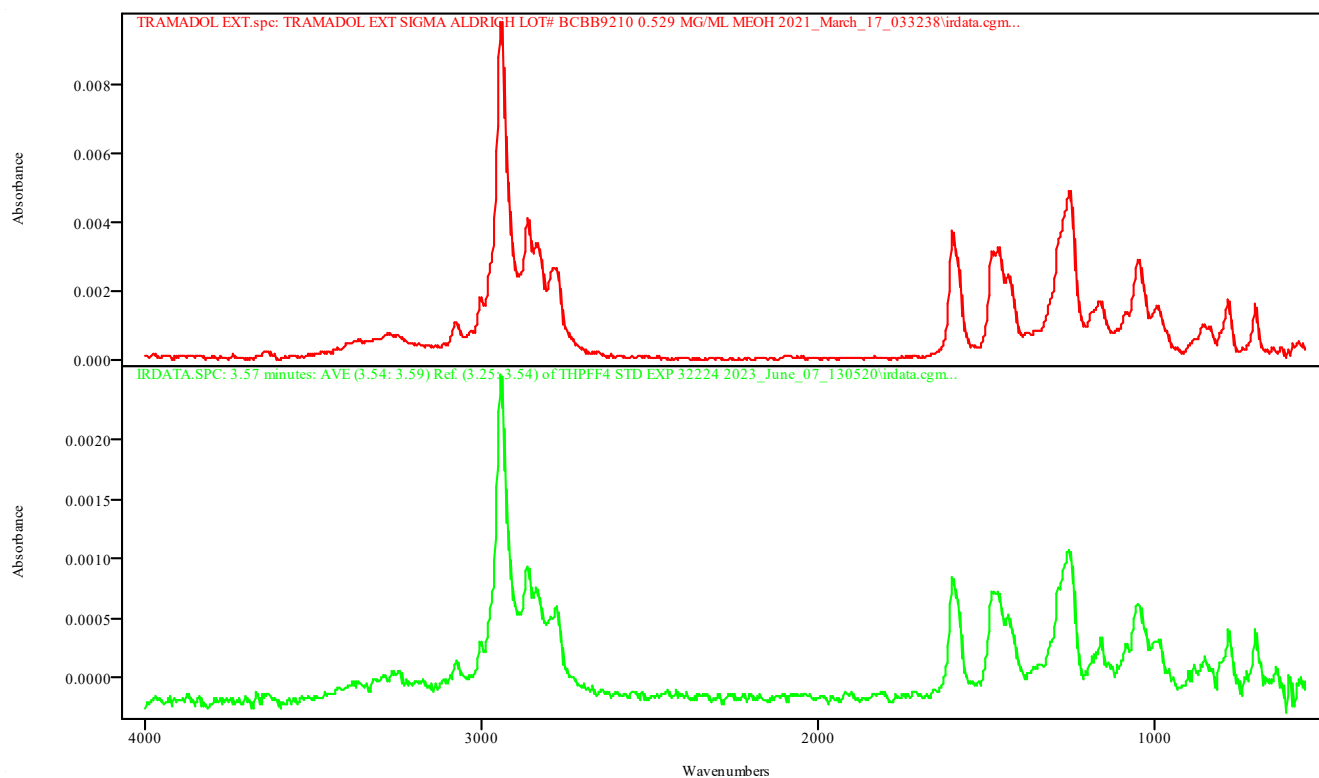
Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023

irdata.cgm: THPFF4 STD EXP 32224 2023_June_07_130520\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
3.535	3.595	0.060	3.250	3.535
6.023	6.071	0.048	5.833	6.023
7.213	7.273	0.060	6.928	7.166
7.725	7.797	0.071	7.392	7.678
8.070	8.142	0.071	7.392	7.678

Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023

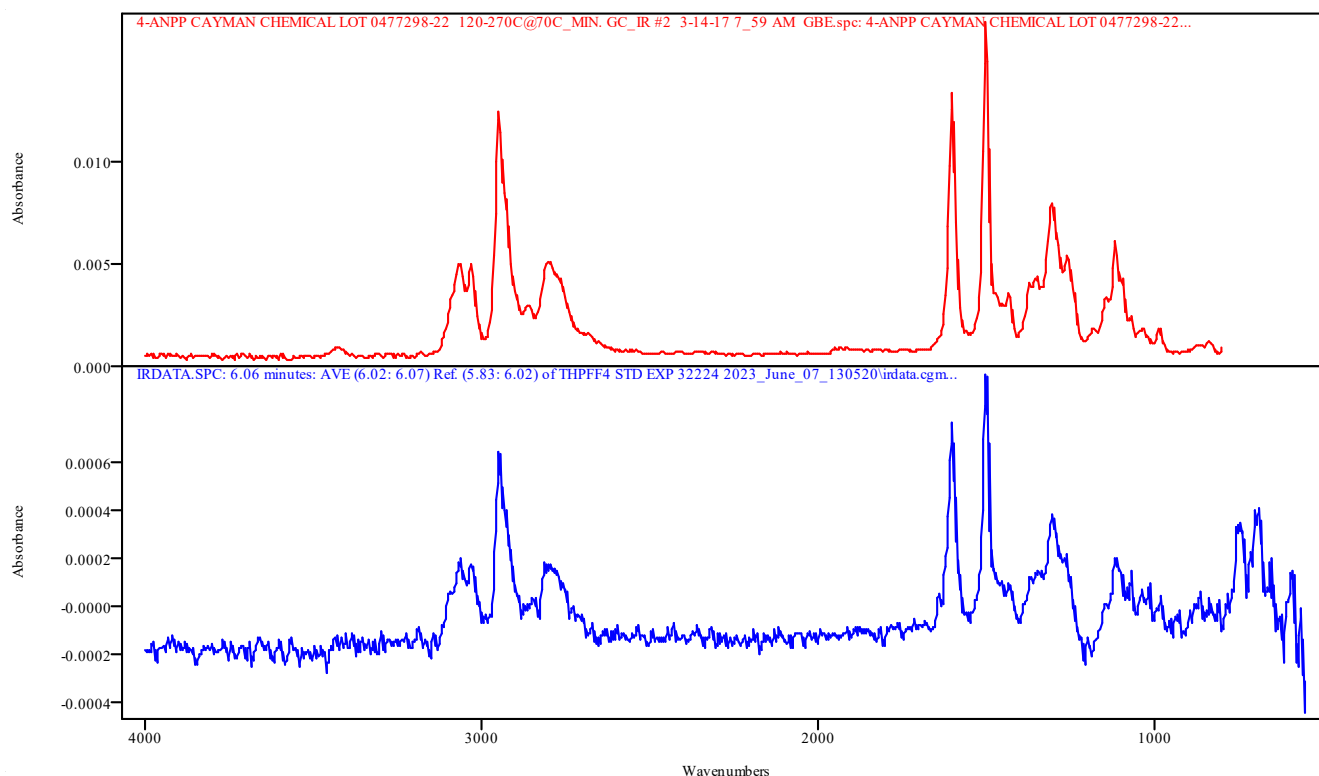


IRDATA.SPC: 3.57 minutes: AVE (3.54: 3.59) Ref. (3.25: 3.54) of THPFF4 STD EXP 32224 2023_June_07_130520.cgm

TRAMADOL EXT.spc: TRAMADOL EXT SIGMA ALDRICH LOT# BCBB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm

Metric	Name	Library	Entry
0.991400	TRAMADOL EXT SIGMA ALDRICH LOT# BCBB9210 0.529 MG/ML MEOH 2021_March_17_033238\irdata.cgm	TBI GCIR EXT BH	63: TRAMADOL EXT.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023

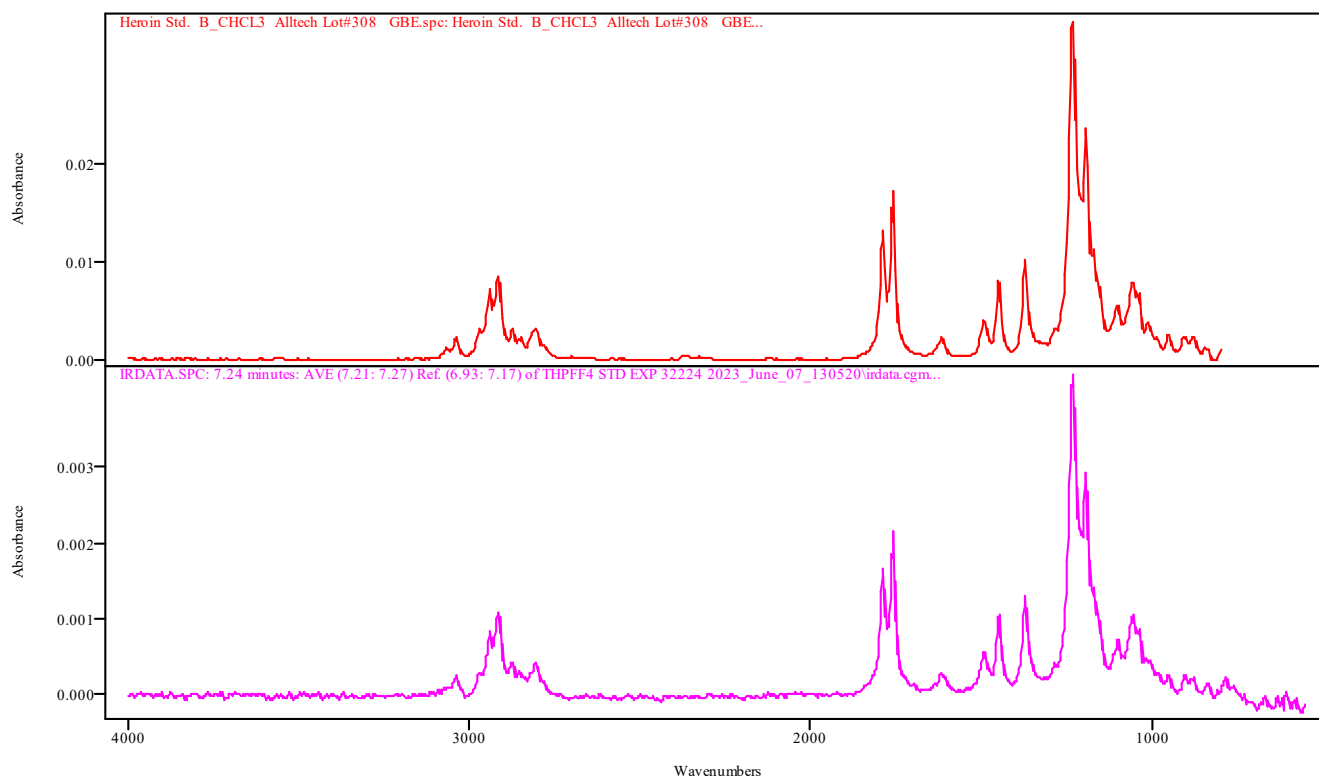


IRDATA.SPC: 6.06 minutes: AVE (6.02: 6.07) Ref. (5.83: 6.02) of THPFF4 STD EXP 32224 2023_June_07_130520.cgm

4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE.spc: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE

Metric	Name	Library	Entry
0.957316	4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN. GC_IR #2 3-14-17 7_59 AM GBE	TBI GCIR combined Thermo generated libraries	355: 4-ANPP CAYMAN CHEMICAL LOT 0477298-22 120-270C@70C_MIN . GC_IR #2 3-14-17 7_59 AM GBE.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023

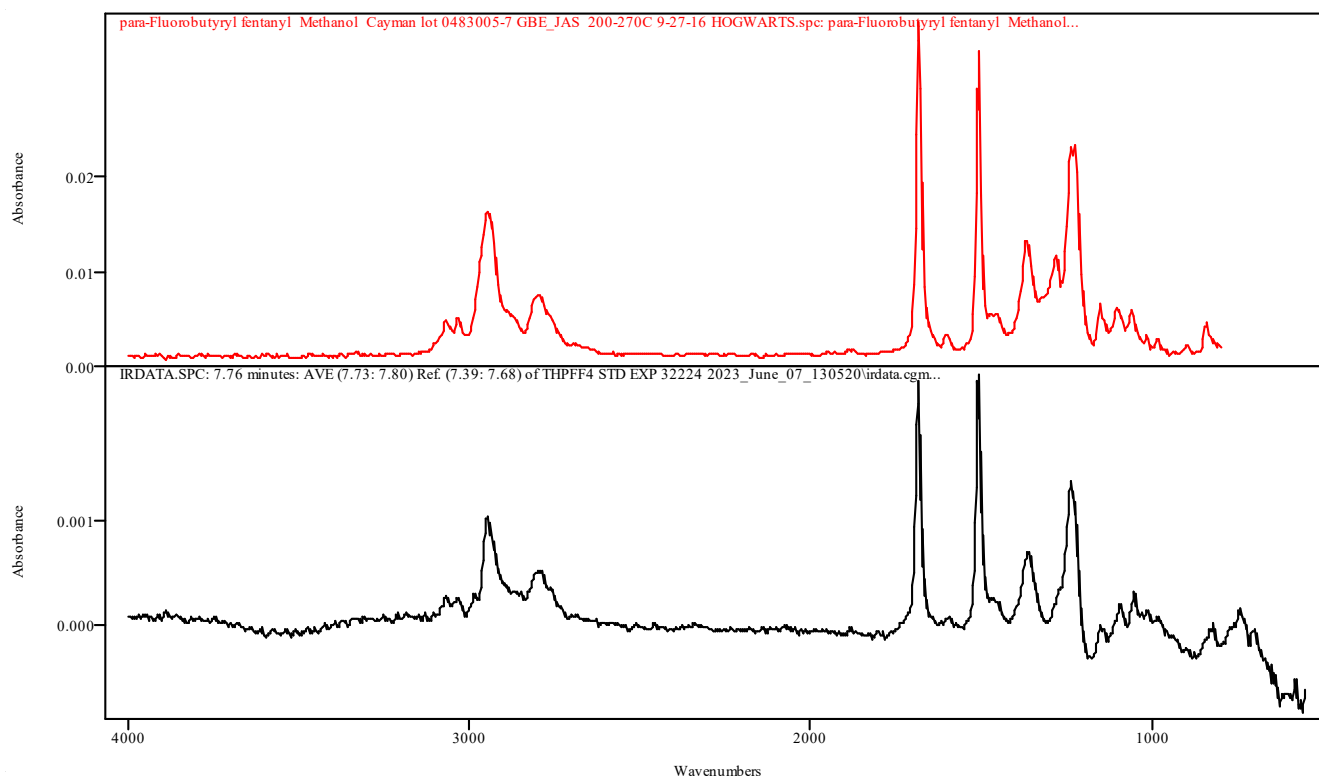


IRDATA.SPC: 7.24 minutes: AVE (7.21: 7.27) Ref. (6.93: 7.17) of THPFF4 STD EXP 32224 2023_June_07_130520.cgm

Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc: Heroin Std. B_CHCL3 Alltech Lot#308 GBE

Metric	Name	Library	Entry
0.996765	Heroin Std. B_CHCL3 Alltech Lot#308 GBE	TBI GCIR combined Thermo generated libraries	245: Heroin Std. B_CHCL3 Alltech Lot#308 GBE.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023

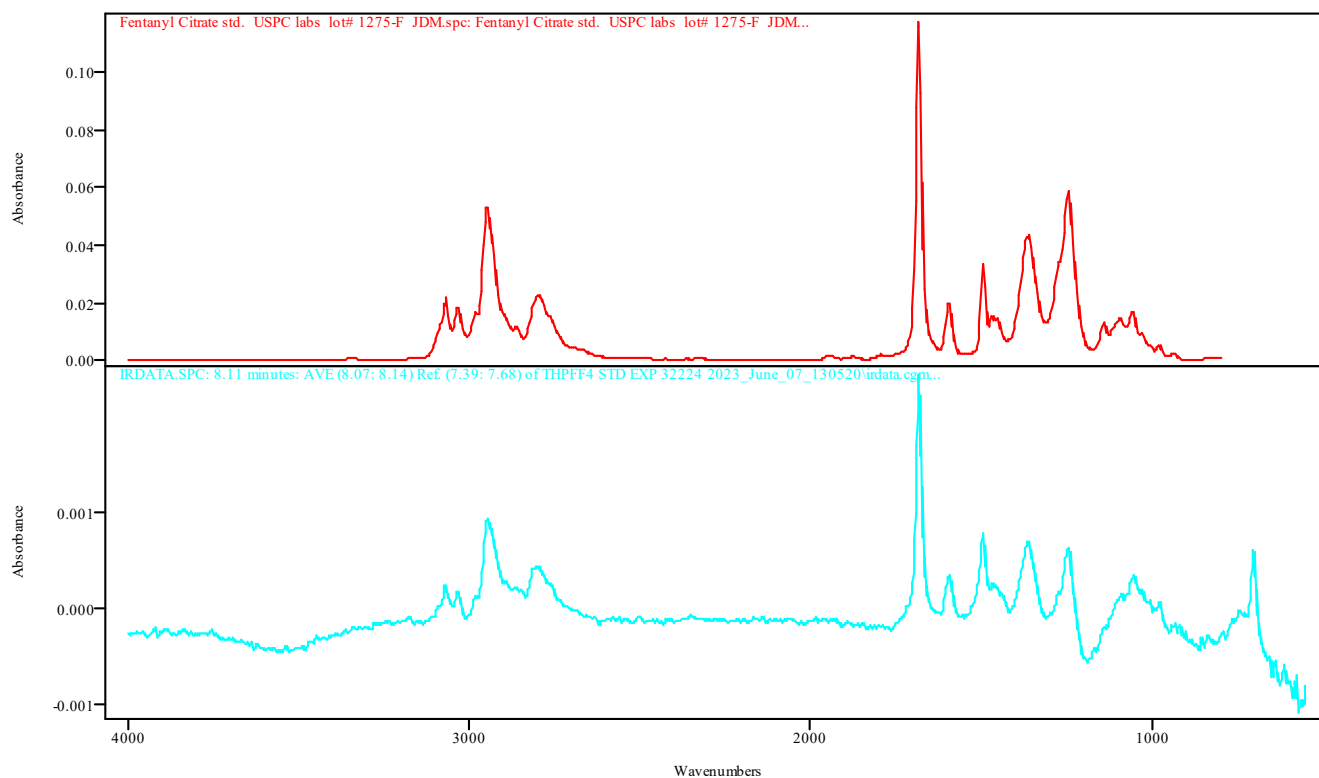


IRDATA.SPC: 7.76 minutes: AVE (7.73: 7.80) Ref. (7.39: 7.68) of THPFF4 STD EXP 32224 2023_June_07_130520.cgm

para-Fluorobutyryl fentanyl Methanol Cayman lot 0483005-7 GBE_JAS 200-270C 9-27-16
HOGWARTS.spc: para-Fluorobutyryl fentanyl Methanol Cayman lot 0483005-7 GBE_JAS
200-270C 9-27-16 HOGWARTS

Metric	Name	Library	Entry
0.911520	para-Fluorobutyryl fentanyl Methanol Cayman lot 0483005-7 GBE_JAS 200-270C 9-27-16 HOGWARTS	TBI GCIR combined Thermo generated libraries	510: para-Fluorobutyryl fentanyl Methanol Cayman lot 0483005-7 GBE_JAS 200-270C 9-27-16 HOGWARTS.spc

Data Filename	THPFF4 STD EXP 32224 2023_June_07_130520
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	4
Sample Name	Tramadol, Heroin, P-fluorofentanyl, fentanyl, 4ANP
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:17:16 2023
Date Processed	Mon Jun 12 08:00:19 2023



IRDATA.SPC: 8.11 minutes: AVE (8.07: 8.14) Ref. (7.39: 7.68) of THPFF4 STD EXP 32224 2023_June_07_130520.cgm

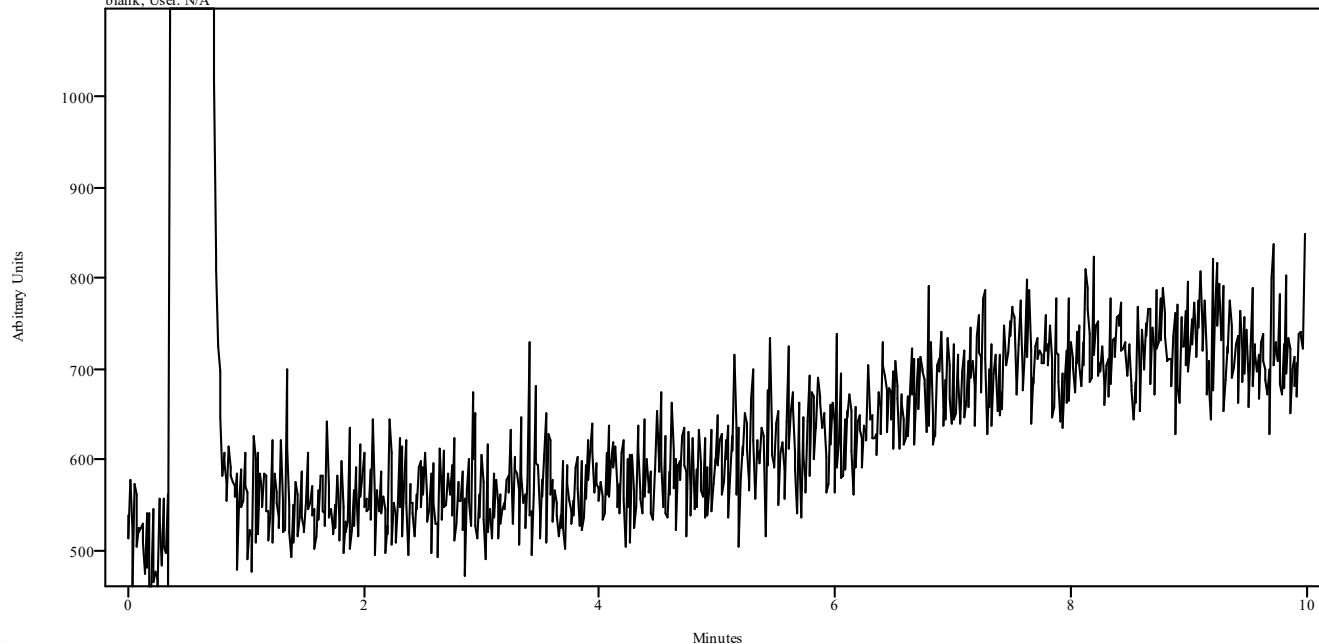
Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc: Fentanyl Citrate std. USPC labs lot# 1275-F JDM

Metric	Name	Library	Entry
0.886726	Fentanyl Citrate std. USPC labs lot# 1275-F JDM	TBI GCIR combined Thermo generated libraries	182: Fentanyl Citrate std. USPC labs lot# 1275-F JDM.spc

IRD Data Analysis Report

Data Filename	THPFF4 MB 2023_June_07_124612
Data Path	X:/CURIE 2023/LJ/06-07-23
IRD Method	IRD3 EXT
GC Method	MANPOLYDRUG
GC Vial	1
Sample Name	Methanol blank
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Wed Jun 07 13:03:20 2023
Date Processed	Mon Jun 12 08:15:58 2023

irdata.cgm: THPFF4 MB 2023_June_07_124612\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Methanol blank; User: N/A

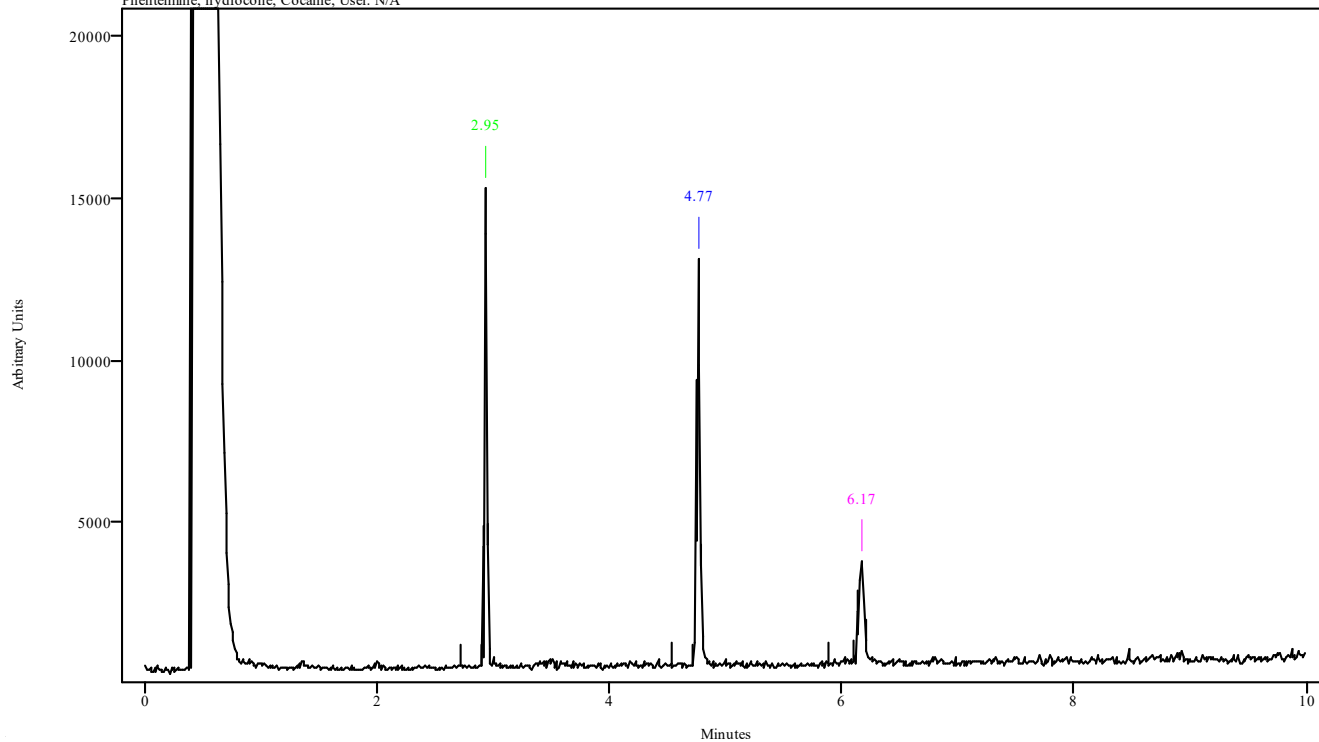


Peak Start	Peak End	Peak Width	Reference Start	Reference End
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IRD Data Analysis Report

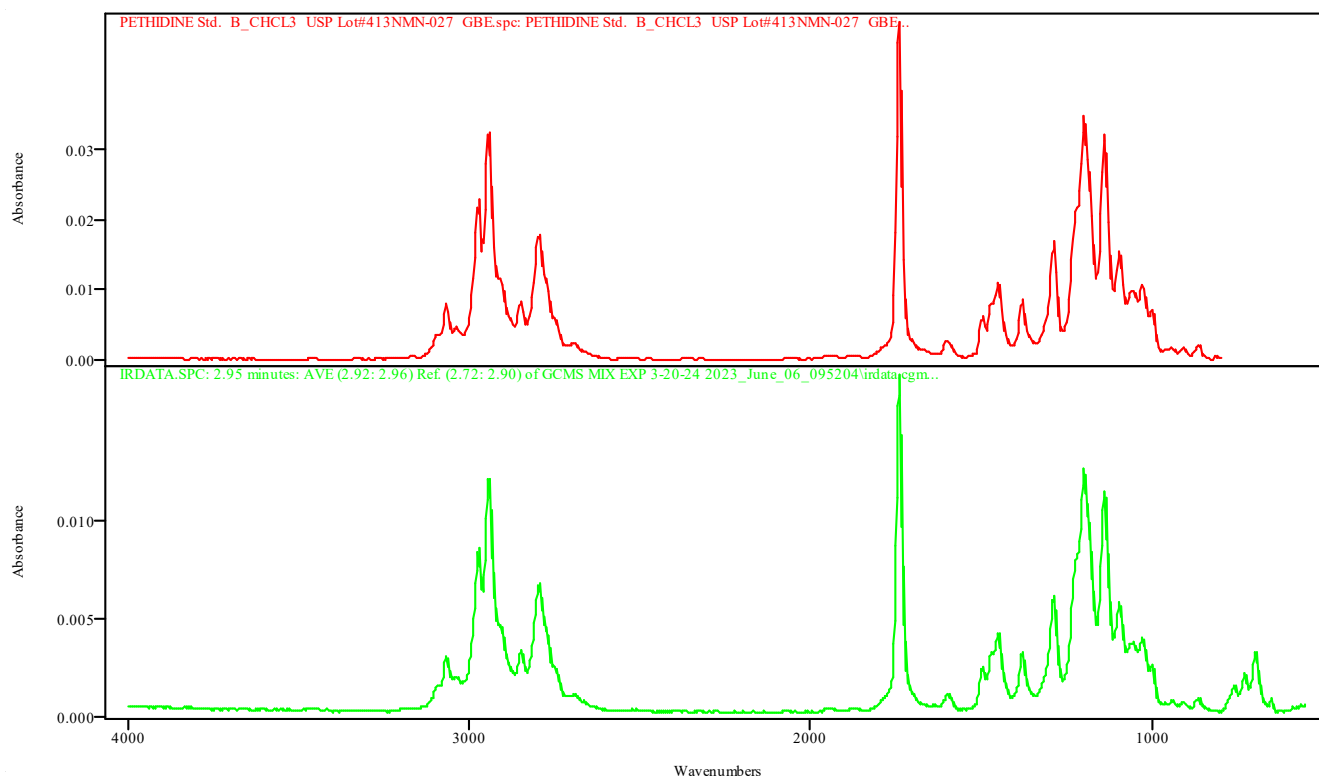
Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine , Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

irdata.cgm: GCMS MIX EXP 3-20-24 2023_June_06_095204\irdata.cgm : Misc. Info: Methanol:Curie; Sample: Phentermine, hydrocone, Cocaine; User: N/A



Peak Start	Peak End	Peak Width	Reference Start	Reference End
2.924	2.958	0.033	2.724	2.902
4.748	4.792	0.044	4.537	4.714
6.149	6.204	0.056	5.882	6.104

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

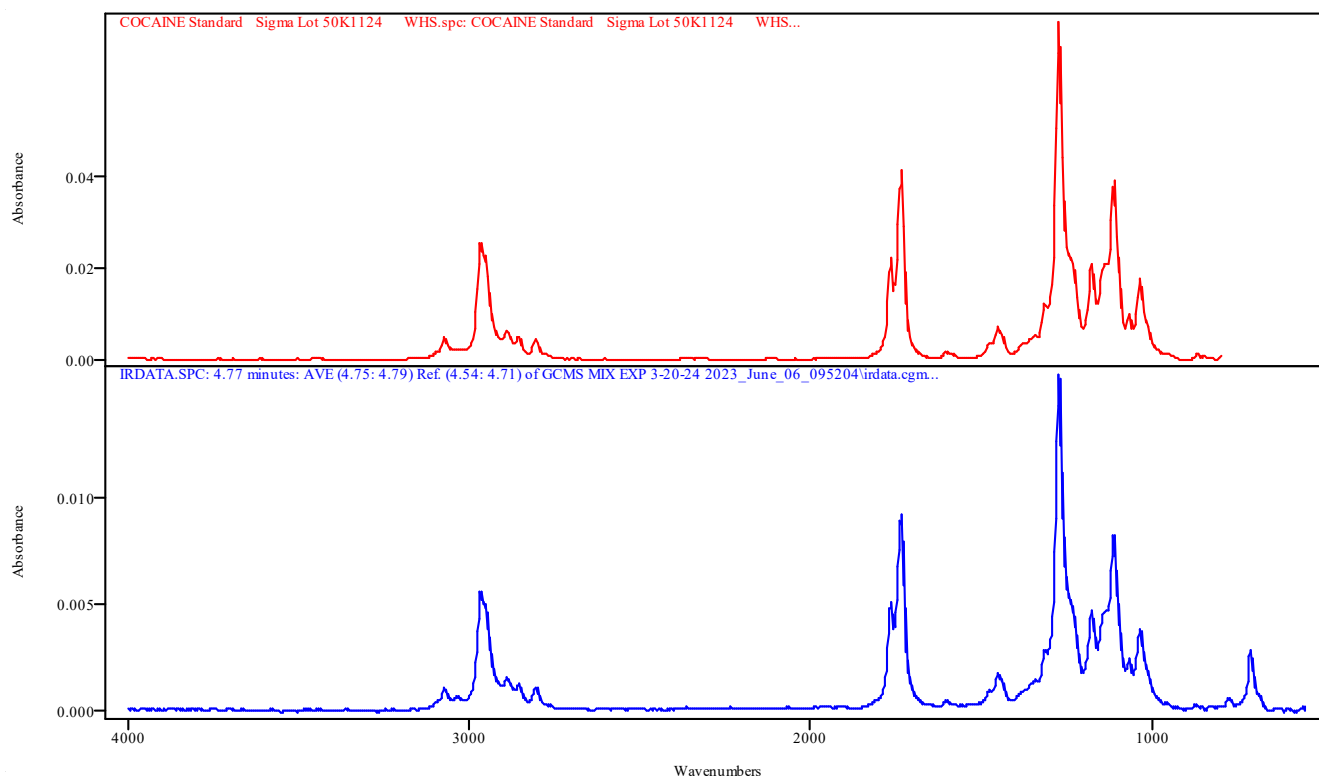


IRDATA.SPC: 2.95 minutes: AVE (2.92: 2.96) Ref. (2.72: 2.90) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE

Metric	Name	Library	Entry
0.998676	PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE	TBI GCIR combined Thermo generated libraries	444: PETHIDINE Std. B_CHCL3 USP Lot#413NMN-027 GBE.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023

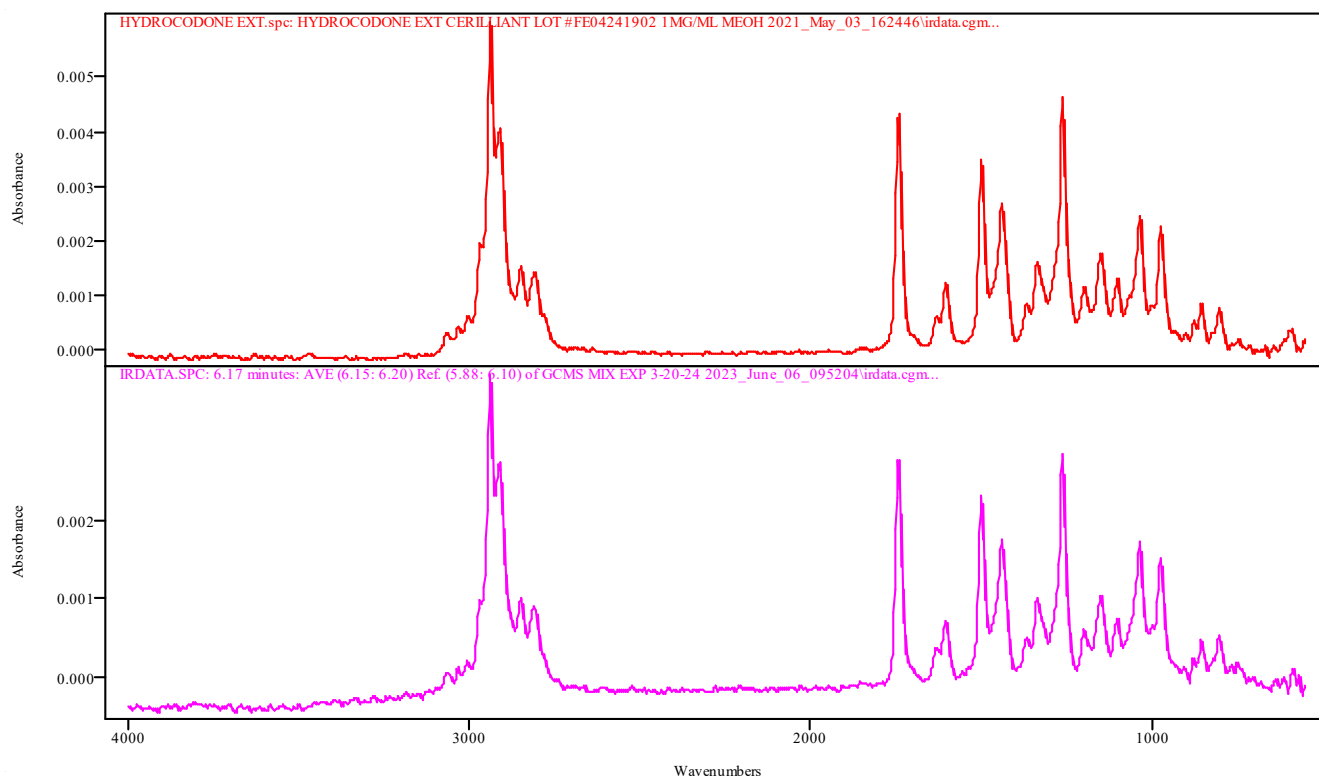


IRDATA.SPC: 4.77 minutes: AVE (4.75: 4.79) Ref. (4.54: 4.71) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

COCAINE Standard Sigma Lot 50K1124 WHS.spc: COCAINE Standard Sigma Lot 50K1124 WHS

Metric	Name	Library	Entry
0.998194	COCAINE Standard Sigma Lot 50K1124 WHS	TBI GCIR combined Thermo generated libraries	71: COCAINE Standard Sigma Lot 50K1124 WHS.spc

Data Filename	GCMS MIX EXP 3-20-24 2023_June_06_095204
Data Path	X:/CURIE 2023/LJ/06-06-23
IRD Method	IRD3 EXT
GC Method	POLYDRUG
GC Vial	5
Sample Name	Phentermine , hydrocone, Cocaine, Pethidine
Misc. Info	Methanol:Curie
User ID	N/A
Injection Time	Tue Jun 06 10:03:50 2023
Date Processed	Fri Jun 09 13:45:19 2023



IRDATA.SPC: 6.17 minutes: AVE (6.15: 6.20) Ref. (5.88: 6.10) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

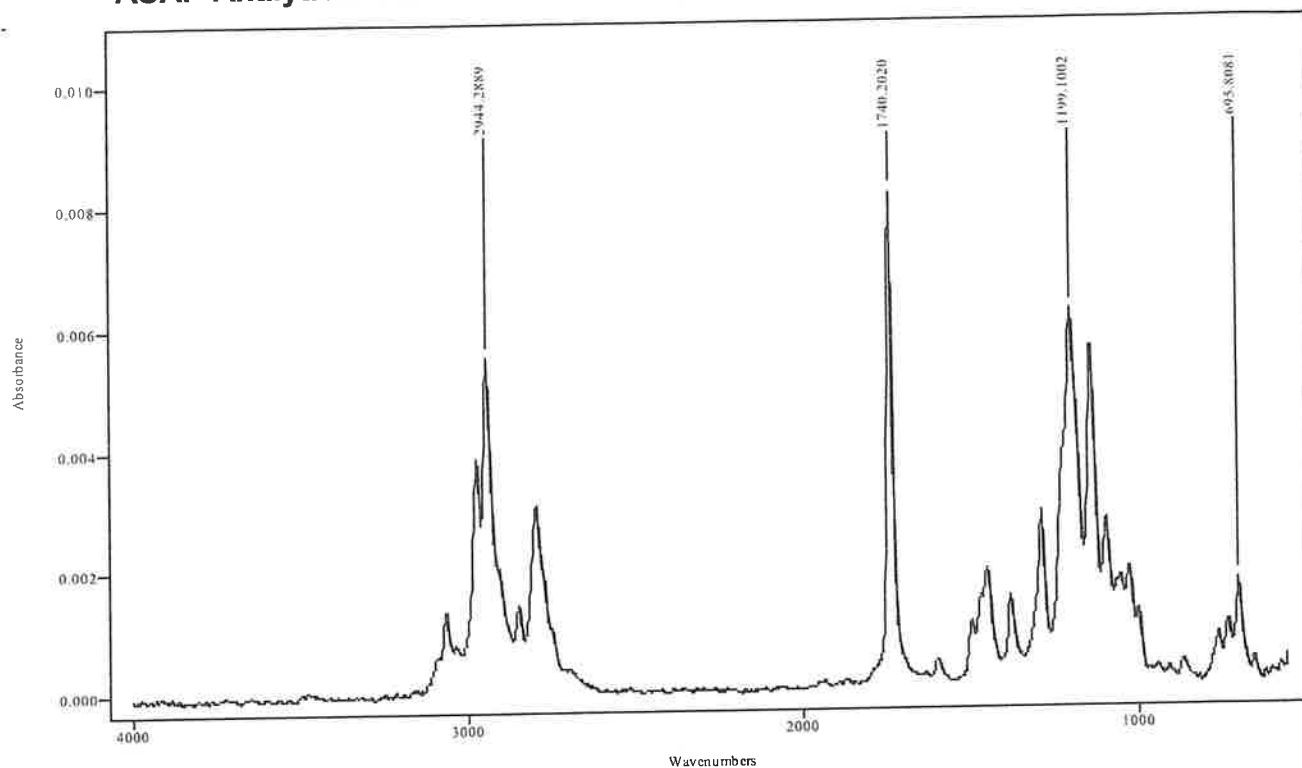
HYDROCODONE EXT.spc: HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm

Metric	Name	Library	Entry
0.987799	HYDROCODONE EXT CERILLIANT LOT #FE04241902 1MG/ML MEOH 2021_May_03_162446\irdata.cgm	TBI GCIR EXT BH	34: HYDROCODONE EXT.spc

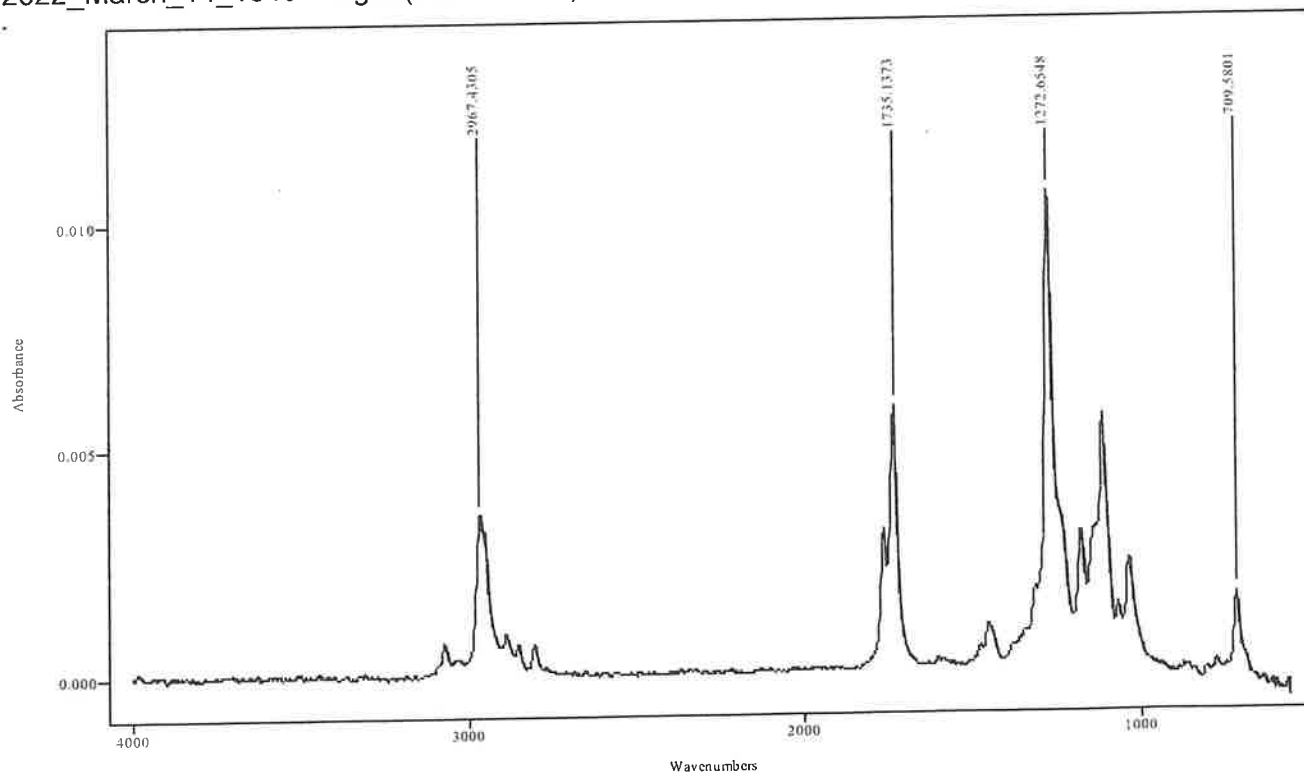
Instrument Name: CUREE

Initials and Date: sf 6/12/23

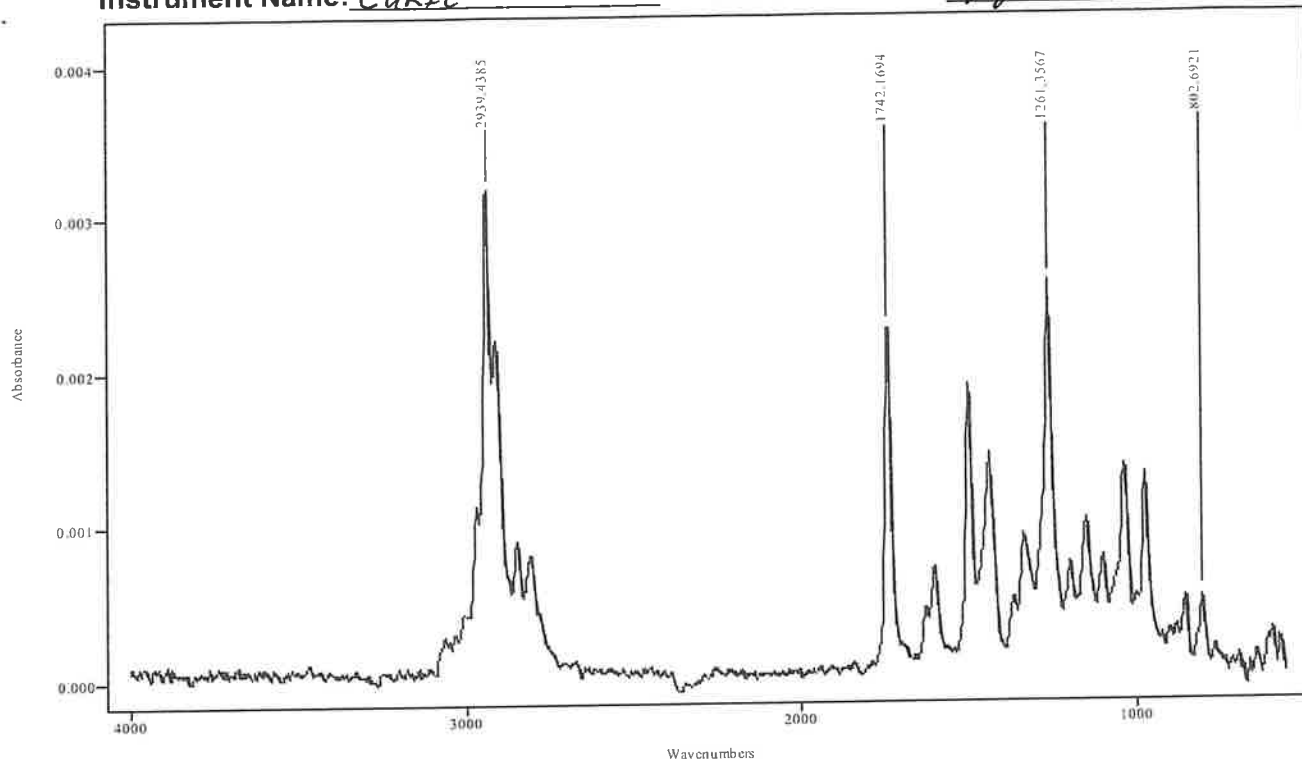
ASAP Analytical IRD3 and IRD3 EXT Wavenumber Evaluation (Short Column)



IRDATA.SPC: 2.43 minutes: AVE (2.38: 2.46) Ref. (2.00: 2.35) of GC-MS MIX EXT
2022_March_14_134611.cgm (PETHIDINE)



IRDATA.SPC: 3.25 minutes: AVE (3.24: 3.27) Ref. (3.00: 3.22) of GC-MS MIX EXT
2022_March_14_134611.cgm (COCAINE)

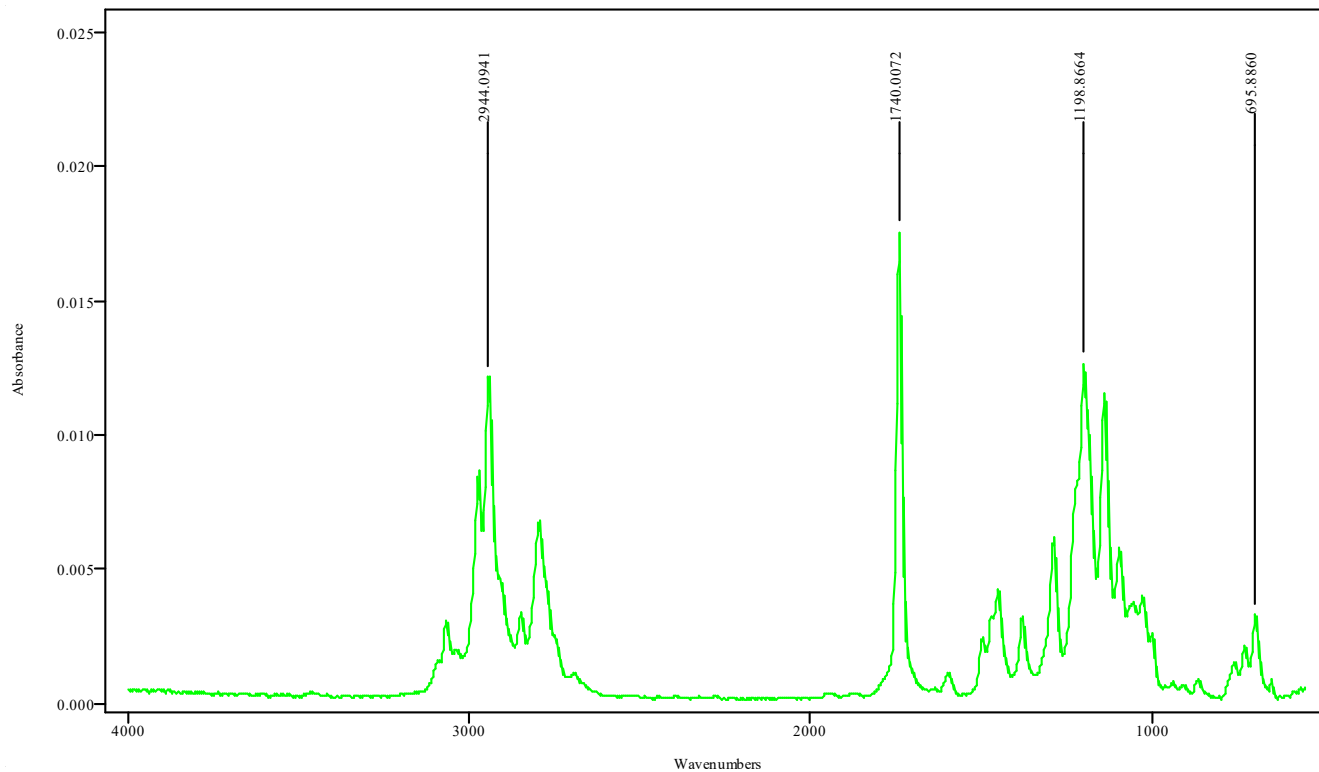
Instrument Name: CURIEInitials and Date: LA 6/12/23

IRDATA.SPC: 3.76 minutes: AVE (3.71: 3.80) Ref. (3.51: 3.65) of GC-MS MIX EXT
 2022_March_14_134611.cgm (HYDROCODONE)

Compound		Expected	Measured	Criteria	Result
(IRD3 EXT) Pethidine	Peak 1	695.8081	695.8860	+/- 8 cm-1	Pass ☒
	Peak 2	1199.1002	1198.8664	+/- 8 cm-1	Pass ☒
	Peak 3	1740.2020	1740.0072	+/- 8 cm-1	Pass ☒
	Peak 4	2944.2889	2944.0941	+/- 8 cm-1	Pass ☒
(IRD3 EXT) Cocaine	Peak 1	709.5801	709.9307	+/- 8 cm-1	Pass ☒
	Peak 2	1272.6548	1272.5769	+/- 8 cm-1	Pass ☒
	Peak 3	1735.1373	1735.0594	+/- 8 cm-1	Pass ☒
	Peak 4	2967.4305	2966.6319	+/- 8 cm-1	Pass ☒
(IRD3 EXT) Hydrocodone	Peak 1	802.6921 (No resolved peak in 550-800 cm-1 range)	802.6532	+/- 8 cm-1	Pass ☒
	Peak 2	1261.3567	1261.1229	+/- 8 cm-1	Pass ☒
	Peak 3	1742.1694	1742.1694	+/- 8 cm-1	Pass ☒
	Peak 4	2939.4385	2939.0878	+/- 8 cm-1	Pass ☒

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	2.95 minutes: AVE (2.92: 2.96) Ref. (2.72: 2.90) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm Curie
Date	Mon Jun 12 08:55:50 2023



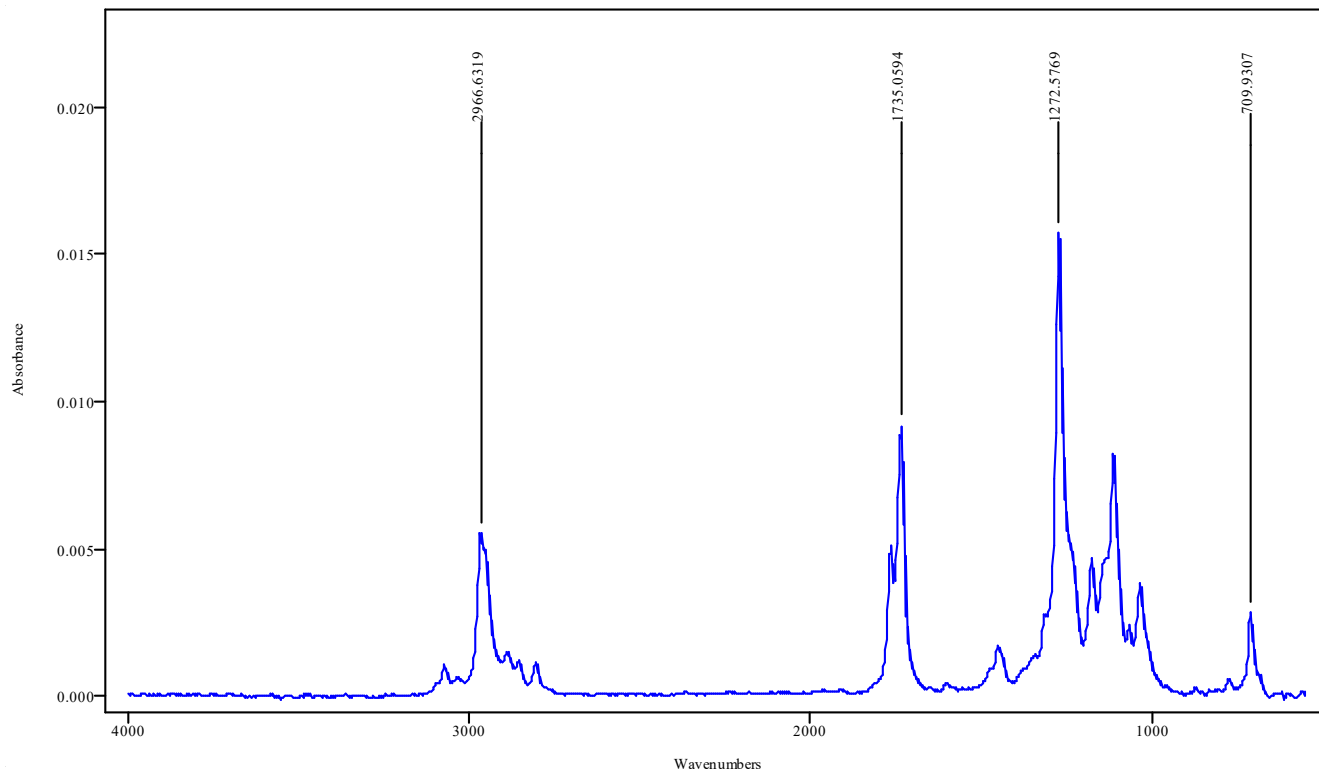
IRDATA.SPC: 2.95 minutes: AVE (2.92: 2.96) Ref. (2.72: 2.90) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

Filename	Peak At	Peak Height
IRDATA.SPC [0]	695.8860	0.0033
IRDATA.SPC [0]	1198.8664	0.0127
IRDATA.SPC [0]	1740.0072	0.0176
IRDATA.SPC [0]	2944.0941	0.0122

Pethidine

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	4.77 minutes: AVE (4.75: 4.79) Ref. (4.54: 4.71) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm Curie
Date	Mon Jun 12 08:58:57 2023



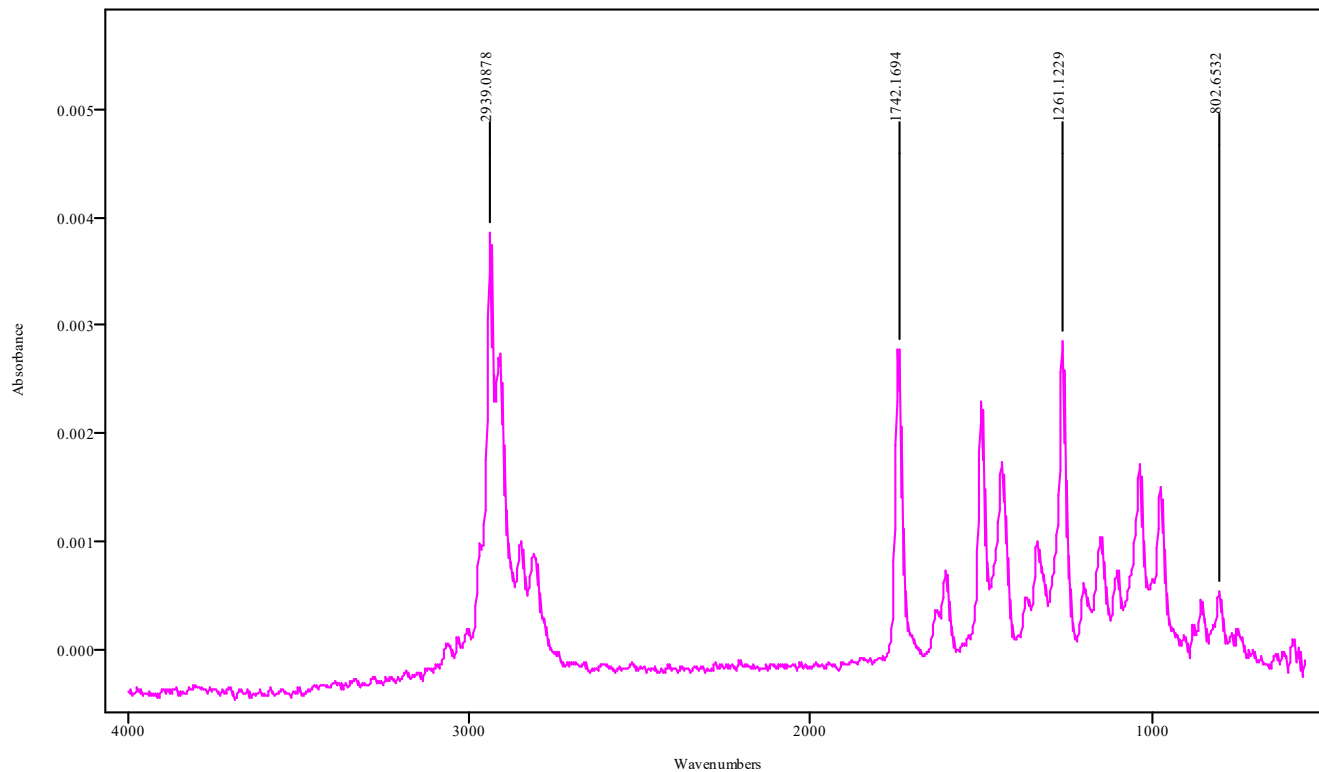
IRDATA.SPC: 4.77 minutes: AVE (4.75: 4.79) Ref. (4.54: 4.71) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

Filename	Peak At	Peak Height
IRDATA.SPC [0]	709.9307	0.0028
IRDATA.SPC [0]	1272.5769	0.0158
IRDATA.SPC [0]	1735.0594	0.0092
IRDATA.SPC [0]	2966.6319	0.0055

Cocaine

Manual Peak Pick Results

Sample Filename	IRDATA.SPC
File Title	6.17 minutes: AVE (6.15: 6.20) Ref. (5.88: 6.10) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm Curie
Date	Mon Jun 12 09:00:57 2023



IRDATA.SPC: 6.17 minutes: AVE (6.15: 6.20) Ref. (5.88: 6.10) of GCMS MIX EXP 3-20-24 2023_June_06_095204.cgm

Filename	Peak At	Peak Height
IRDATA.SPC [0]	802.6532	0.0005
IRDATA.SPC [0]	1261.1229	0.0029
IRDATA.SPC [0]	1742.1694	0.0028
IRDATA.SPC [0]	2939.0878	0.0039

Hydrocodone