DEPARTMENT OF FORENSIC SCIENCE METHOD VALIDATION SUMMARY FORM

Section:	Toxicology
Method:	Addition of Xylazine by SPE to the Acid/Base/Neutral Drug Screen
	And Quantitation by GC and GCMS
Procedur	ecorded?
Approve	d by: Date:

MEMORANDUM FOR RECORD

From: Kimberly Meinweiser	Date: 04/18/2023
Handwritten initials/e-Signature:	
Subject: Qualitative Validation for Xylazine	
DISTRIBUTION:	Approved for SPE base screen, with
Director FS Lab #:	methapyrilene as the ISTD. Do NOT use for the analysis of liver.
Deputy Director Laboratory Director:	AMA 5/1/23
DTS Program Manager: Toxicolog	J ,
HR Supervisor, Section:	Laboratory:
Counsel Other:	
The following research for the qualitative determination of xylazine dates of 09/23/2021 and 09/28/2021. The proposal was signed on the Toxicology SOP. This qualitative validation plan follows what with time of the proposal. Data analysis was delayed due to the co-eluprioritizing casework. The existing Base Screen GCMS/NPD Solid Phase Extraction (9.0 reconstitution of 200uL THIA. The GCMS and NPD parameters at Laboratory for routine base screen analysis. Interferences from endogenous compounds were evaluated. A tol (blood), 6-8 (urine), 9-10 (liver). All were evaluated for the present extracted ion chromatograph for the major indicative ions for xylazine for xylazine. Four main matrix blanks were chosen for use in the volume that was extracted by itself at 2.0 mg/L in four separate m standard was extracted by itself. There was no interference docur Carryover was evaluated by running three injections of the 0.10 m each followed by a matrix blank. None of the matrix blanks had at The administrative LOD for the method is 0.005 mg/L. The 0.005 from four different matrices; two blood, one urine and one liver. W matches were less than acceptable. At 0.010 mg/L the retention timaking 0.010 mg/L an acceptable LOD for xylazine. Slight retention time shift was observed for Matrix 10 (liver), thoughter that is the proposal part of the control of the shift was observed for Matrix 10 (liver), thoughter that is the proposal part of the proposal p	109/08/2021, which at the time, was a previous revision of was written in the SOP, revision 19, which was current at the tion of xylazine and tramadol, absence from work and (3.1) method from the Toxicology SOP was used with a se the standard parameters utilized at the Eastern (all of ten matrix blanks were screened on the GCMS; 1-4 ce of an interfering compound or instrumental response via tine (i.e., m/z 205, 220, 130 and 145). All screened negative ralidation; Matrix 1, Matrix 2, Matrix 6 and Matrix 10. Satrix blanks. In the same four matrix blanks, the internal mented by the internal standard. Sag/L, 0.50 mg/L, 1.0 mg/L and 2.0 mg/L xylazine standard my carryover observed on either the GCMS or the NPD.
to run a matrix matched spiked standard for the qualitative determ. The previously confirmed statewide base control drugs (diphenhy nortiptyline, cyclobenzaprine, citalopram and trazodone) and the limethadone, sertraline) were spiked alone at 2.0 mg/L and togethy very similar RT on the GCMS; tramadol~ 10.454 min (aafs library or >). Although the two drugs coelute, it is clear in all four matrices tramadol and xylazine do have slight separation, although if they at the Opicoc method. On the NPD tramadol's RT is 11.033 (RRT ~6). Based on these findings, I request approval to qualitatively identify Screen GCMS/NPD Solid Phase Extraction method described above.	dramine, pcp, tramadol, dextromethorphan, amitriptyline, pase in-house control drugs (doxylamine, chlorpheniramine, er with 2.0 mg/L of xylazine. Tramadol and xylazine have a match 95) and xylazine~ 10.472 min (aafs library match 97 is that there are two compounds present. On the NPD are seen together, tramadol would need to be quantitated on 0.9787) and xylazine RT 11.046 (RRT 0.9810) respectivly.

MEMORANDUM FOR RECORD

From:	From: Kimberly Meinweiser					Date	04/18/2023
Handw	ritten initials/e	-Sigr	nature: KM				
Subject	: Qualita	tive	Validation for	Xylazine			
DISTRI	BUTION:				0.		
Dia	rector		FS Lab #:				
De De	puty Director		Laboratory Director:				
D1	rs	✓	Program Manager:	Toxicology			
HF	t		Supervisor, Section:		Lab	ooratory:	
Co	unsel		Other:		<u>-</u>		

The following research for the qualitative determination of xylazine was conducted in the Eastern Laboratory between the dates of 09/23/2021 and 09/28/2021. The proposal was signed on 09/08/2021, which at the time, was a previous revision of the Toxicology SOP. This qualitative validation plan follows what was written in the SOP, revision 19, which was current at the time of the proposal. Data analysis was delayed due to the co-elution of xylazine and tramadol, absence from work and prioritizing casework.

The existing Base Screen GCMS/NPD Solid Phase Extraction (9.6.1) method from the Toxicology SOP was used with a reconstitution of 200uL THIA. The GCMS and NPD parameters are the standard parameters utilized at the Eastern Laboratory for routine base screen analysis.

Interferences from endogenous compounds were evaluated. A total of ten matrix blanks were screened on the GCMS; 1-4 (blood), 6-8 (urine), 9-10 (liver). All were evaluated for the presence of an interfering compound or instrumental response via extracted ion chromatograph for the major indicative ions for xylazine (i.e., m/z 205, 220, 130 and 145). All screened negative for xylazine. Four main matrix blanks were chosen for use in the validation; Matrix 1, Matrix 2, Matrix 6 and Matrix 10.

The analyte was extracted by itself at 2.0 mg/L in four separate matrix blanks. In the same four matrix blanks, the internal standard was extracted by itself. There was no interference documented by the internal standard.

Carryover was evaluated by running three injections of the 0.10 mg/L, 0.50 mg/L, 1.0 mg/L and 2.0 mg/L xylazine standard each followed by a matrix blank. None of the matrix blanks had any carryover observed on either the GCMS or the NPD.

The administrative LOD for the method is 0.005 mg/L. The 0.005 mg/L as well as a 0.010 mg/L were spiked and extracted from four different matrices; two blood, one urine and one liver. When spiked at 0.005 mg/L the retention times and spectral matches were less than acceptable. At 0.010 mg/L the retention times and spectral matches for all matrices were acceptable making 0.010 mg/L an acceptable LOD for xylazine.

Slight retention time shift was observed for Matrix 10 (liver), though still within the +/- 2% window. It would be recommended to run a matrix matched spiked standard for the qualitative determination in liver specimens.

The previously confirmed statewide base control drugs (diphenhydramine, pcp, tramadol, dextromethorphan, amitriptyline, nortiptyline, cyclobenzaprine, citalopram and trazodone) and the base in-house control drugs (doxylamine, chtorpheniramine, methadone, sertraline) were spiked alone at 2.0 mg/L and together with 2.0 mg/L of xylazine. Tramadol and xylazine have a very similar RT on the GCMS; tramadol~ 10.454 min (aafs library match 95) and xylazine~ 10.472 min (aafs library match 97 or >). Although the two drugs coelute, it is clear in all four matrices that there are two compounds present. On the NPD tramadol and xylazine do have slight separation, although if they are seen together, tramadol would need to be quantitated on the Opicoc method. On the NPD tramadol's RT is 11.033 (RRT ~0.9787) and xylazine RT 11.046 (RRT 0.9810) respectivly.

Based on these findings, I request approval to qualitatively identify and report xylazine in case work using the modified Base Screen GCMS/NPD Solid Phase Extraction method described above. Data supporting this request is attached.

MEMORANDUM FOR RECORD

From	: Kimber	ly N	<i>M</i> einweiser	Date:	09/08/2021	
Handwritten initials/e-Signature: Meinweiser Kil			ature: Meinweis		Digitally signed by Meint Date: 2021.09.08 10:07:	weiser Kimberly Ipu25291 38 -04'00'
Subject: Qualitative Xylazine Validation Proposal						
	RIBUTION:		FS Lab #:			Digitally signed by
Ħ₁	Deputy Director	H	Laboratory Director:		James Hutchings	James Hutchings sme19098
	OTS	$\overline{\mathbf{V}}$	Program Manager:	James Hutchings, PhD	ama 10000	Date: 2021,09.08 11:18:08 -04'00'
Ī	HR	<u></u>	Supervisor, Section:	Connie Luckie, PhD	Laboratory: Eas	stern Toxicology
	Counsel	✓	Other:	Rebecca Wagner, Ph[)	
Base	Screen GCM apyrilene will t	D/NI	PD Solid Phase Ex	the qualitative analysis of straction (9.6.1) method fro d. A certified Cerilliant sta	om the Toxicolo	gy SOP.

Xylazine will be studied at three concentrations spread across the linear range of the standard base quantitation curve; 0.010 mg/L, 0.10 mg/L and 2.0 mg/L.

Ten matrix blanks consisting of 5 blood samples, 3 urine samples and 2 liver homogenates will be screened for xylazine. They will also be examined to ensure that they have no endogenous contributions to the analyte signals.

Four matrix blanks will then be chosen for use in the validation.

The analyte will be extracted by itself at the following concentrations; 0.010 mg/L, 0.10 mg/L and 2.0 mg/L in four separate matrix blanks. In these same four matrix blanks, the internal standard will be extracted by itself.

Carryover will be evaluated by running three injections of the 0.10 mg/L xylazine standard followed by a matrix blank. Three more injections of the 2.0 mg/L xylazine standard will be injected followed by another matrix blank.

Common base drugs (diphenhydramine, doxylamine, tramadol, chlorpheniramine, dextromethorphan, methadone, amitriptyline, nortripyline, cyclobenzaprine, sertraline and trazodone) will be spiked at 2.0 mg/L to evaluate for any interferences in four separate matrix blanks.

The administrative LOD for the current method is 0.0050 mg/L. This concentration will be spiked and extracted from four different matrices; two blood, one urine and one liver.

The predetermined identification criteria are listed below:

Retention time +/- 2%

Identification of peak by library search of the spectrum

Xylazine:

	0.01 RRT	match %	0.1 RRT	0.5 RRT	1.0 RRT	2.0 RRT	LOD RRT	match %
matrix 2	0.979	61	0.979	0.979	0.980	0.981	0.979	34
matrix 1	0.979	70	0.979	0.979	0.980	0.981	0.979	5
matrix 6	0.979	74	0.979	0.979	0.980	0.981	0.979	38
matrix 10	0.985	61	0.984	n/a		split peak	0.985	50

avg RRT across matrix 1, 2 and 6 for all conc: 0.980

Tramadol:

matrix 2	0.978 *
matrix 1	0.976 *
matrix 6	0.978 *
matrix 10	0.978 *

^{*} Although co-elution of tramadol and xylazine is observed @ 2.0 mg/L, peaks are distinguishable albeit not baseline resolved.

Individualized mass spectral identification with library match is demonstrated in validation data.

CERTIFICATE of ANALYSIS



Xylazine

N-(2,6-dimethylphenyl)-5,6-dihydro-4H-1,3-thiazin-2-amine Item No. 22641 • Batch No. 0508346

Purity Specification: ≥98% Molecular Formula: C12H16N2S

CAS Number: 7361-61-7

Formula Weight: 220.3

Expiry date: 10JUN2023

Results **Tests**

HPLC

Purity: 100.0 %

IR

Conforms

Mass spec

MH+: 221.0

Melting Point

135 - 138 °C

Purity: 100 %

NMR

TLC

Conforms

Reviewed and approved by: Jennifer LaBrecque

Gen Fabrugue

WARNING
THIS PRODUCT IS FOR RESEARCH USE - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE. IT IS THE RESPONSIBILITY OF THE PURCHASER TO DETERMINE SUITABILITY FOR OTHER APPLICATIONS.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions Including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD

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FAX: [734] 971-3640 WWW.CAYMANCHEM.COM.

Multi-Component Standard, Calibrator, and Control Preparation Log

Assigned Lot#: C-XYLA-20210922	Location: Eastern Tox
Date Prepared/Initials: KM 9/22/2021 P	laced in Service/Initials: KM 9/22/2021
Solvent (ID/Manuf/Lot): MEOH / B&J / DZ8	46-US
Verification Location: XYLAZINE VALIDA	ATION
DFS Expiration*: 06/10/2023	
Retest Date**:	
Post Retest Exp Date:	
Retest Data Location:	
Two years from preparation or earliest expiration of component. **	May be retested to extend the DFS expiration date for 1 year
reparation Instructions:	
01 mg/mL: pipet 100 uL of the previously prepared 1.0 mg/mL working st	ock into a rinsed, traceable 10mL volumetric and QS with methanol.
.001 mg/mL: pipet 1 mL of the 0.01 mg/mL working stock is	nto a rinsed, traceable 10 mL volumetric and QS with methanol.

volumetic G	iassware Se	eriai Number:	CF 10 141	Visually Ins	pectea (Y/N):	_ 1
Drug Sta	ındard	Std Source	Lot#	Exp Date	Std Conc	Final Conc
XYLAZINE	1 - A7	CAYMAN	508346	06/10/2023	1.0 mg/mL	0.01 & 0.001 mg/mL
12.11						

220-F136 Toxicology Multi-Component Standard, Calibrator and Control Preparation Log Issued by Toxicology Program Manager Issue Date: 27-October-2017

Qualtrax ID 2846 Qualtrax Revision 3 Page 1 of 1

DRUG STOCK STANDARD PREPARATION LOG

Xylazine Working STDCK- 1 Mg/ML Assigned Lot#: Xyla-20210922 Standard & Concentration Prepared:

Vendor Source / Lot # / Expiration Date cayman | 0508344 6.1023 Drug Name Xylazine Employee Initials アス Assigned Expiration 6.10.23 Date Date Prepared 9 22 21

sulfate or benzoylecgonine - 4H2O. The extra weight of the salt or hydrate must be corrected for when preparing liquid drug standards. The following Method of Preparation: Salt Correction: Most drug standards are prepared as a salt or hydrate, such as phencyclidine hydrochloride, morphine formula is used to determine the amount of drug salt to be weighed.

e)] = mg drug salt required	
<u>"</u>	(e)
ilt (mg/mmole	lomm/gr
alt (mg	rug (m
drug s	arent d
FW drug	FW pa
×	_
desired]	
gup	
ent (
pare	
[mg	

mg Weighed: 11.65 10 mL Volume: Manuf./Lot: B: 7 / D2846-US FW Drug Salt. 256.79 FW Drug: 220.33 MCOH Solvent:

+ as to volume w/ MEDH std into a lome volumetric WEIGH 11.65mg

220-F119 Toxicology Drug Stock Standard Preparation Log Issued by Toxicology Program Manager Issue Date: 22-April-2020

Qualtrax ID 2834 Qualtrax Revision 2 Page 1 of 1

Analyst(s): ASSAY:

Base Screen

QC Data File: Xylazine Validation

K.Meinweiser

Sample Info Item # Sample / FS # 35 39 45 26 28 29 30 33 34 36 38 40 41 42 43 4 46 47 48 49 20 31 32 37 27 *satisfies 2.8.1.1.4 Sample Info BUR101017 BB0121-1 BB0121-2 BB0519-3 BB0321-1 BB0721-1 **BUR0819** BU06017 LIV09231 LIV0109 Item # URN URN URN BLD BLD ard BLD LVR L/R BLD Sample / FS # 10 MATRIX BLANK 10 8 MATRIX BLANK 8 9 MATRIX BLANK 9 3 MATRIX BLANK 3 5 MATRIX BLANK 5 6 MATRIX BLANK 6 2 MATRIX BLANK 2 4 MATRIX BLANK 4 7 MATRIX BLANK 7 1 MATRIX BLANK 1 12 13 14 15 16 18 20 22 23 24 21 17

Specimens removed from TX ADM storage, aliquots removed for analysis, specimens returned to TX ADM storage by, unless otherwise noted:

Extraction: LL /(SPE

Reviewer / Date:

SPE lot #: 024170-XD

2 Control Charts Updated (Initials/Date):

Analyst: Kimburgmining

Date: 09.23.21

Time Returned: Time Removed: 0726 220-F156 Toxiclogy Barcode Batch Worksheet ssued by Toxicology Program Manager ssue Date: 02-July-2020

Qualtrax ID 26328 Qualtrax Revision 1 Page 1 of 1

Toxicology Batch Lot Summary Sheet

Analysis:	Base Quant/Screen			
QC Data File:	Xylazine Validation			
Material	Lot Number	Expiration Date		
Phosphate Buffer	9-21-21	9-21-23		
Acetic Acid	8-31-21	8-31-23		
Methanol	DZ846-US	3-10-22		
Hexane	0000269095	9-3-24		
THIA	7-19-21	7-19-23		
DiH ₂ O	In-House	N/A		
Methylene Chloride/IPA/NH4OH	9-23-21	9-24-21		

Sequence Table (Front Injector):

Line	Location	SampleName	Method Name	Num Inj	SampleType
====	=========		=======================================	=======	========
1	Vial 131	ETOAC	ALKALI	1	Sample
2	Vial 132	MATRIX BLANK 1 BLD	ALKALI	1	Sample
3	Vial 133	MATRIX BLANK 2 BLD	ALKALI	1	Sample
4	Vial 134	MATRIX BLANK 3 BLD	ALKALI	1	Sample
5	Vial 135	MATRIX BLANK 4 BLD	ALKALI	1	Sample
6	Vial 136	MATRIX BLANK 5 BLD	ALKALI	1	Sample
7	Vial 137	MATRIX BLANK 6 URN	ALKALI	1	Sample
8	Vial 138	MATRIX BLANK 7 URN	ALKALI	1	Sample
9	Vial 139	MATRIX BLANK 8 URN	ALKALI	1	Sample
10	Vial 140	SOLVENT BLANK AFTER MATIX 8	ALKALI	1	Sample
11	Vial 141	MATRIX BLANK 9 LVR	ALKALI	1	Sample
12	Vial 142	SOLVENT BLANK AFTER MATRIX 9	ALKALI	1	Sample
13	Vial 143	MATRIX BLANK 10 LVR	ALKALI	1	Sample
14	Vial 144	SOLVENT BLANK AFTER MATRIX 10	ALKALI	1	Sample
15	Vial 145	OFF	ALKALIOFF	1	Sample

Vial Check EL 9.24.21 method: C:\CHEM32\1\METHODS\ALKALI.M
Modified on: 9/23/2021 at 11:21:17 AM

Method Information

Method: C:\CHEM32\1\METHODS\ALKALI.M
Modified: 9/23/2021 at 11:21:17 AM

KM/QC DATA IN XYLAZINE VALIDATION

Injection Source and Location

Injection Source: GC Injector

Injection Location: Front

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 9/23/2021 at 11:21:17 AM

Agilent 7890B

GC Oven Equilibration Time Max Temperature Slow Fan Oven Program Oven Program Oven#1

Oven#1 Oven#2 Run Time Cryo

ALS

Front Injector Syringe Size Syringe

Injection Volume
Solvent A Washes (PreInj)
Solvent A Washes (PostInj)

Solvent A Volume

Solvent B Washes (PreInj) Solvent B Washes (PostInj)

Solvent B Volume Sample Washes Sample Wash Volume Sample Pumps

Dwell Time (PreInj)
Dwell Time (PostInj)
Solvent Wash Draw Speed
Solvent Wash Dispense Speed
Sample Wash Draw Speed
Sample Wash Dispense Speed
Injection Dispense Speed

Viscosity Delay Sample Depth Injection Type L1 Airgap

Tray

Barcode heater Barcode mixer

Sample Overlap

Mode

ALS Errors

Front SS Inlet He Mode Heater

Pressure Total Flow Septum Purge Flow

Gas Saver

Injection Pulse Pressure

0.5 min 325 °C

Disabled

On

90 °C for 2 min

then 15 °C/min to 245 °C for 0 min then 30 °C/min to 300 °C for 7 min

21.167 min

Off

10 µL

A Syringe has not been selected.

2 4

0 min 0 min 300 μL/min 3000 μL/min 3000 μL/min 3000 μL/min 6000 μL/min

1 sec Disabled Standard 0.2 µL

Disabled Disabled

Sample overlap is not enabled

Pause for user interaction

Pulsed Splitless
On 260 °C
On 18.881 psi
On 44.5 mL/min
On 3 mL/min

On 20 After 2 min mL/min

40 psi Until 0.3 min

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 9/23/2021 at 11:21:17 AM Purge Flow to Split Vent 40 mL/min at 0.5 min Liner Agilent 5190-2293: 900 µL (Splitless, single tape Back SS Inlet He ***Excluded from Affecting GC's Readiness State** Mode Splitless Heater On 250 °C Pressure On 9.801 psi Total Flow 41.7 mL/min Septum Purge Flow Off Gas Saver Off Purge Flow to Split Vent 40 mL/min at 0.5 min Liner Agilent 5183-4647; Lot P02-C6823: 870 µL (Split, Column Column #1 RTX-1; SN 1652461 0 °C-350 °C (350 °C): 30 m \times 250 μ m \times 0.25 μ m Column lock Unlocked In Front SS Inlet He Out Front Detector NPD 90 °C (Initial) Pressure 18.881 psi Flow 1.5 mL/min Average Velocity 36.082 cm/sec Holdup Time 1.3857 min Flow Program Off Flow Program 1.5 mL/min for 1 min then 0.2 mL/min per min to 2.2 mL/min for 0 m Flow Run Time 21.167 min Column #2 10223 0 °C-325 °C (325 °C): 30 m x 320 μm x 0.25 μm Column lock Unlocked In Back SS Inlet He Out Back Detector FID (Initial) 90 °C 9.801 psi Pressure 1.7 mL/min Flow Average Velocity 31.621 cm/sec 1.5812 min Holdup Time Flow Program Off Flow Program 1.7 mL/min for 1 min Flow then 0.2 mL/min per min to 3 mL/min for 0 min 21.167 min Run Time Front Detector NPD Heater On 310 °C H2 Flow On 3 mL/min Air Flow On 60 mL/min Makeup Flow (Combined) 10 mL/min On Carrier Gas Flow Correction Included in Makeup Flow Bead On Signal 1 Type NPD Maximum Bead Voltage 4.095 V

No

Blos Bead

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 9/23/2021 at 11:21:17 AM Dry Bead Yes Auto Adjust Bead No Back Detector FID ***Excluded from Affecting GC's Readiness State** Heater 280 °C H2 Flow Off Air Flow Off Makeup Flow On 25 mL/min Carrier Gas Flow Correction Does not affect Makeup or Fuel Flow Flame Off Electrometer On Signals Signal #1: Front Signal Description Front Signal Details Save On Data Rate 50 Hz Signal #2: Back Signal Description Back Signal Details Save Off Data Rate 5 Hz Signal #3: Test Plot Description Test Plot Details Save Off Data Rate 50 Hz Signal #4: Test Plot Description Test Plot Details Off

Save Data Rate

Run Time Events Run Time Events Run Time Events Time

Run Time Events Event

Run Time Events Position Run Time Events Setpoint

Run Time Events Time Run Time Events Event Run Time Events Position

Run Time Events Setpoint

2 min Detector H2 Fuel Flow 0

0 min

Detector H2 Fuel Flow

50 Hz

On

Off

Sequence Name: C:\MassHunter\GCMS\1\sequence\alkalival.sequence.xml

Comment: Base

Operator: KM/QC DATA IN XYLAZINE VALIDATION

Data Path: C:\MassHunter\GCMS\1\data\BASES\092321\

Instrument Control Pre-Seq Cmd: Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd: Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options

(X) Full Method () On Mismatch, Inject Anyway () Reprocessing Only () On Mismatch, Don't Inject (X) Barcode Disabled

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	41	SOL	ALKALI	ETOAC
2)	Sample	42	001BLD	ALKALI	MATRIX BLANK 1 BLD
3)	Sample	43	002BLD	ALKALI	MATRIX BLANK 2 BLD
4)	Sample	44	003BLD	ALKALI	MATRIX BLANK 3 BLD
5)	Sample	45	004BLD	ALKALI	MATRIX BLANK 4 BLD
6)	Sample	46	005BLD	ALKALI	MATRIX BLANK 5 BLD
7)	Sample	47	006URN	ALKALI	MATRIX BLANK 6 URN
8)	Sample	48	007URN	ALKALI	MATRIX BLANK 7 URN
9)	Sample	49	008URN	ALKALI	MATRIX BLANK 8 URN
10)	Sample	50	SOL008	ALKALI	SOLVENT AFTER MATRIX 8
11)	Sample	51	009LVR	ALKALI	MATRIX BLANK 9 LVR
12)	Sample	52	SOL009	ALKALI	SOLVENT AFTER MATRIX 9
13)	Sample	53	010LVR	ALKALI	MATRIX BLANK 10 LVR
14)	Sample	54	SOL010	ALKALI	SOLVENT AFTER MATRIX 10

Vial Check EL 9.24.21

Last Modified: Thu Sep 23 12:01:39 2021

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\MassHunter\GCMS\1\methods\ALKALI.m
Tune file	ATUNE.U
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	22.17
Solvent delay (min)	3.00
Trace Ion Detection	False
Gain Factor	1
EM Saver	Faise
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
3.00	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter	
Real-Time Plots			
Type of Plot	Label	Low Mass	High Mass
Total Ion	N/A	N/A	N/A
Spectrum	N/A	N/A	N/A
Extracted Ion	Scan 1-1	40	550

Self-Cleaning Ion Source Parameters

	🛴 and the second second the second the second second the second t	
Mode	No Cleaning	

C:\MassHunter\GCMS\1\methods\ALKALI.m Thu Sep 23 12:02:25 2021

Control Information

Sample Inlet : GC
Injection Source : GC ALS

Injection Location: Front

Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC GC Summary Run Time 22.167 min Post Run Time 0 min Oven Temperature Setpoint On 90 °C (Initial) Hold Time 2 min Post Run 0°C Program 15 °C/min #1 Rate 245 °C #1 Value #1 Hold Time 0 min 30 °C/min #2 Rate 300 °C #2 Value #2 Hold Time 8 min Equilibration Time 0.5 min 325 °C Max Temperature Maximum Temperature Override Disabled Slow Fan Disabled ALS Front Injector 10 µL Syringe Size Injection Volume 1 µL 1 Injection Repetitions Injection Delay 0 sec Solvent A Washes (PreInj) 4 Solvent A Washes (PostInj) Solvent A Volume 8 µL Solvent B Washes (PreInj) 4 Solvent B Washes (PostInj) Solvent B Volume 8 µL Sample Washes Sample Wash Volume 8 µL Sample Pumps 2 Dwell Time (PreInj) 0 min Dwell Time (PostInj) 0 min Solvent Wash Draw Speed 300 μ L/min Solvent Wash Dispense Speed 3000 μL/min 300 μL/min Sample Wash Draw Speed Sample Wash Dispense Speed 3000 µL/min

Injection Dispense Speed 6000 µL/min Viscosity Delay 0 sec Sample Depth Disabled Tower Fan On Solvent Wash Mode A-A2, B-B2 Sample Overlap Mode Sample overlap is not enabled ALS Errors Pause for user interaction Front SS Inlet He Pulsed Splitless Mode 260 °C Heater On 15.177 psi Pressure On 46.869 mL/min Total Flow On Septum Purge Flow 3 mL/min On Septum Purge Flow Mode Standard Gas Saver 20 After 2 min mL/min Injection Pulse Pressure 40 psi Until 0.3 min Purge Flow to Split Vent 42.4 mL/min at 0.5 min A Liner has not been selected. Liner Thermal Aux 2 (MSD Transfer Line) Temperature Setpoint On 280 °C (Initial) Column Column #1 Flow Setpoint (Initial) 1.4687 mL/min Hold Time 1 min 1.2 mL/min Post Run Program 0.2 mL/min per min #1 Rate #1 Value 3 mL/min #1 Hold Time 0 min Column Information Restek 10123 Rtx-1 SN 1652464 -60 °C-350 °C (350 °C) Temperature Range Dimensions 30 m x 250 μm x 0.25 μm Front SS Inlet He In MSD Out 90 °C (Initial) Pressure 15.177 psi 1.4687 mL/min Flow Average Velocity 45 cm/sec 1.1111 min Holdup Time Control Mode Ramped Flow Column Outlet Pressure 0 psi Front Detector NPD ***Excluded from Affecting GC's Readiness State*** Makeup Не Off Heater Off H2 Flow Off Air Flow

Off

Makeup Flow

Carrier Gas Flow Correction

Bead

Off

Maximum Bead Voltage

Blos Bead

Dry Bead

Constant Makeup and Fuel Flow

4.095 V

No

Yes

Signals Signal #1: Description

Auto Adjust Bead

None

Νo

Signal #2: Description

None

Signal #3:

Description

Signal #4:

Description

None

None

TUNE PARAMETERS for SN: US71236345

Trace Ion Detection is OFF.

34.610 : EMISSION 70.347 : ENERGY 28.568 : REPELLER 90.157 : IONFOCUS 28.500 : ENTRANCE_LENS 1870.588 : EMVOLTS

1870.588 : Actual EMV 0.78 : GAIN FACTOR

2280.000 : AMUGAIN
120.063 : AMUOFFSET
1.000 : FILAMENT
0.000 : DCPOLARITY
19.576 : ENTLENSOFFSET
-532.000 : MASSGAIN
-36.000 : MASSOFFSET

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS

Analysis Report



Sample Information

Sample Name
Instrument

Position

Operator

MATRIX BLANK 1 BLD

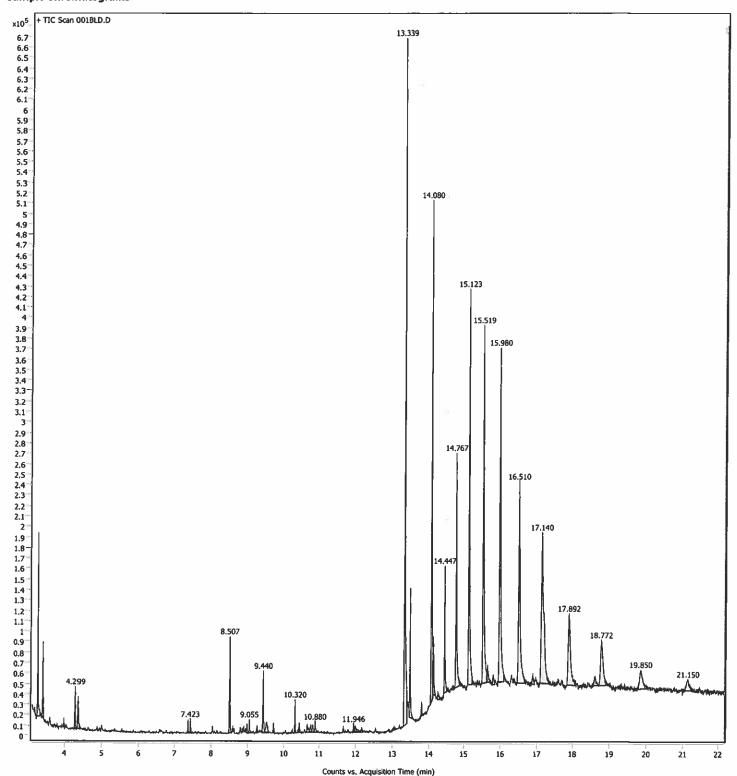
KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092321\001BLD.D

9/23/2021 12:34:24 PM (UTC-04:00) C:\MassHunter\GCM5\1\methods\ALKALI.M

Sample Chromatograms

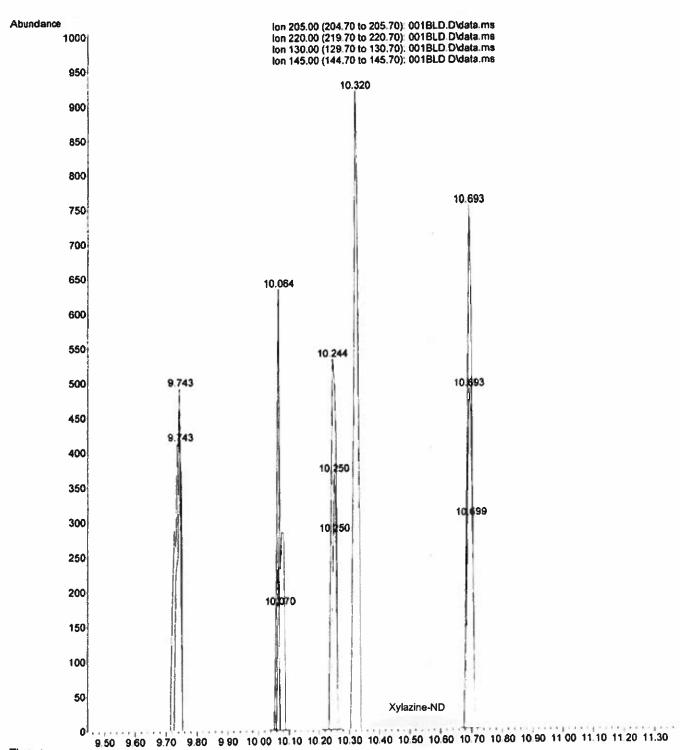


File :C:\Users\TOX\Desktop\092321\001BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 12:34 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 1 BLD

Misc Info : BB0321-1

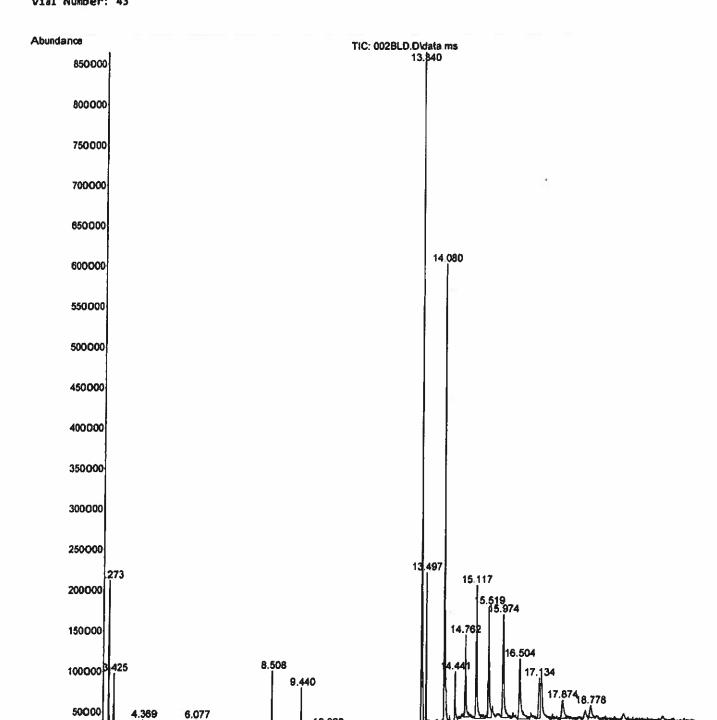


File :C:\Users\TOX\Desktop\092321\002BLD.D : KM/QC DATA IN XYLAZINE VALIDATION : 23 Sep 2021 13:00 using AcqMe Operator

using AcqMethod ALKALI.M Acquired

#3 - Enhanced Instrument : Sample Name: MATRIX BLANK 2 BLD

Misc Info : BB0721-1 Vial Number: 43



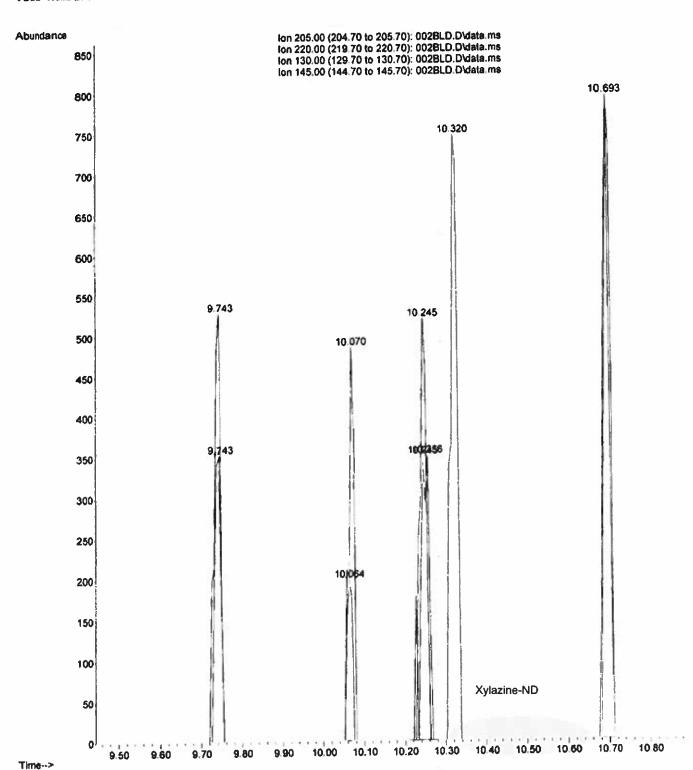
4.00 5.00 6.00 7.00 8.00 9.00 10.00 11.00 12.00 13.00 14.00 15.00 16.00 17.00 18.00 19.00 20.00 21.00

File :C:\Users\TOX\Desktop\092321\002BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 13:00 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 2 BLD

Misc Info : B80721-1

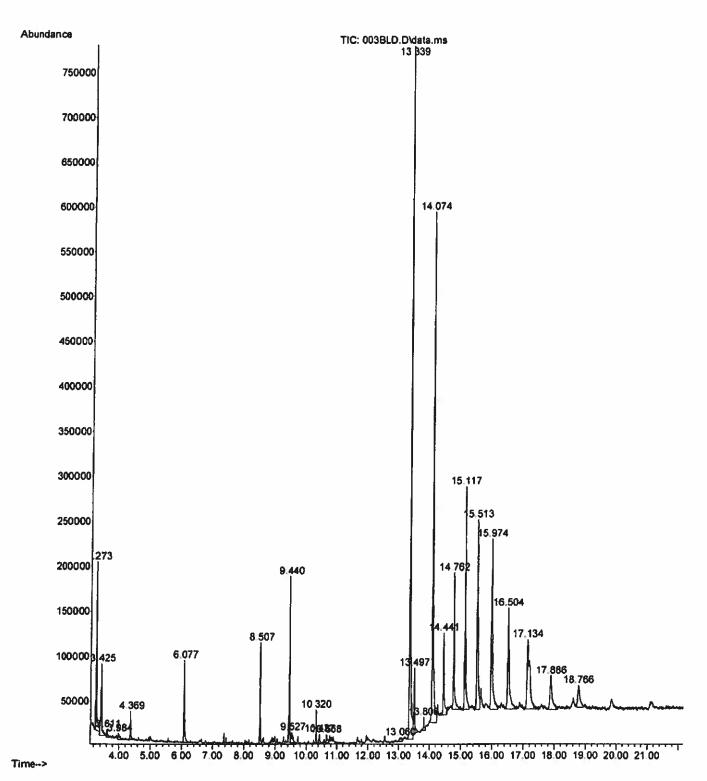


File :C:\Users\TOX\Desktop\092321\003BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 13:26 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 3 BLD

Misc Info : B80121-1

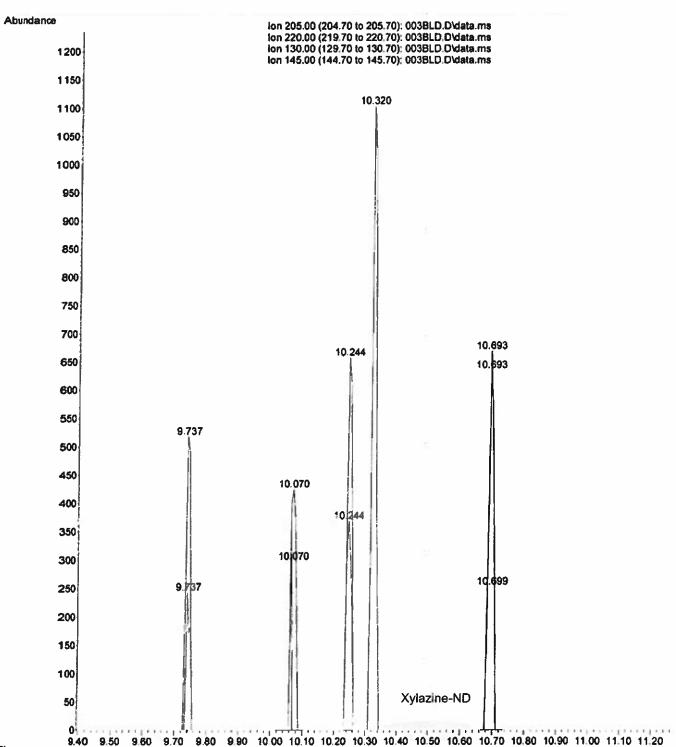


File :C:\Users\TOX\Desktop\092321\003BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 13:26 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 3 BLD

Misc Info : BB0121-1

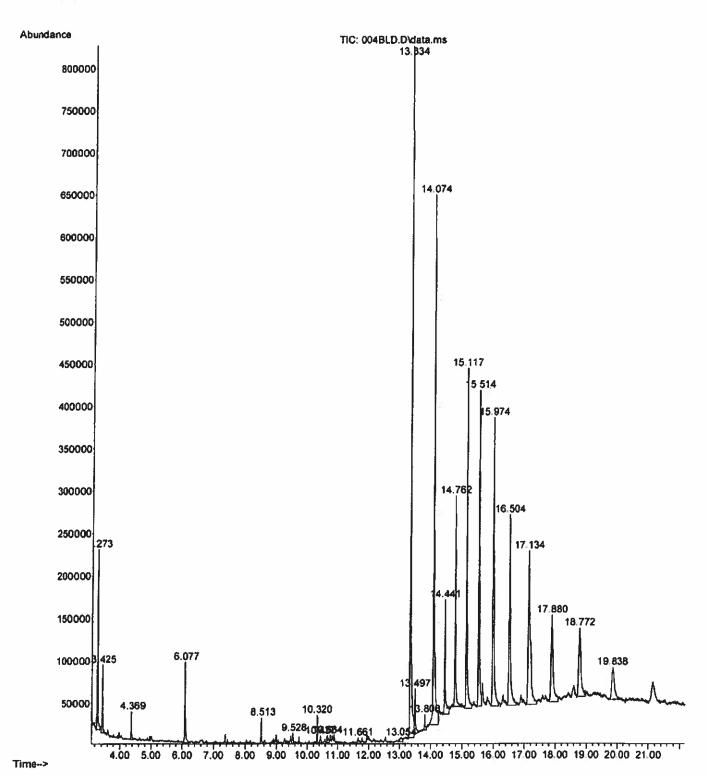


File :C:\Users\TOX\Desktop\092321\004BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 13:51 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 4 BLD

Misc Info : 880121-2



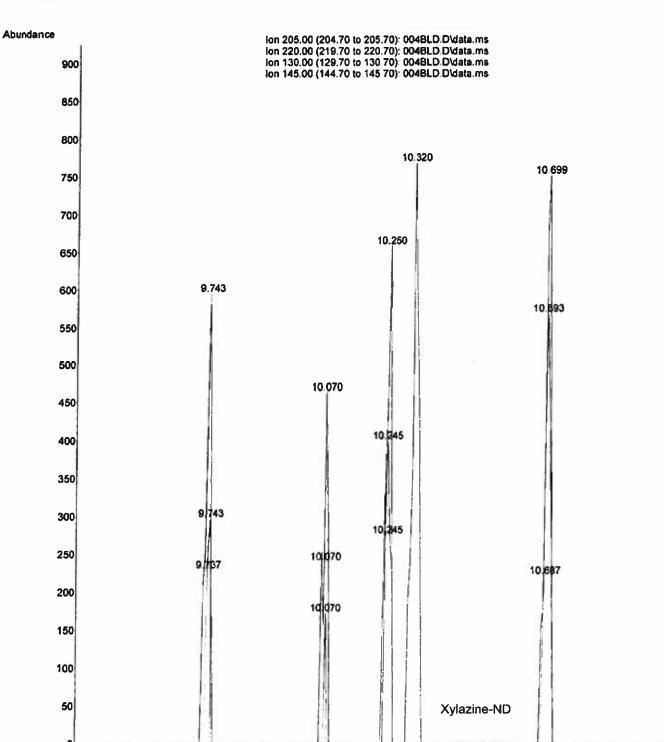
File :C:\Users\TOX\Desktop\092321\004BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 13:51 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 4 BLD

Misc Info : 880121-2

Vial Number: 45



9.60 9.70 9.80 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00

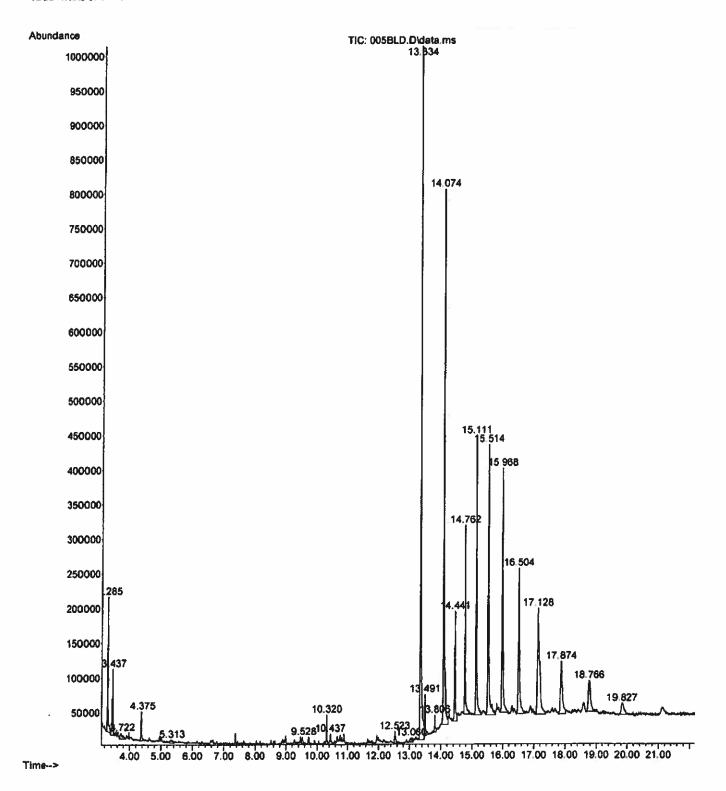
9.50

File :C:\Users\TOX\Desktop\092321\005BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 14:17 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 5 BLD

Misc Info : BB0519-3

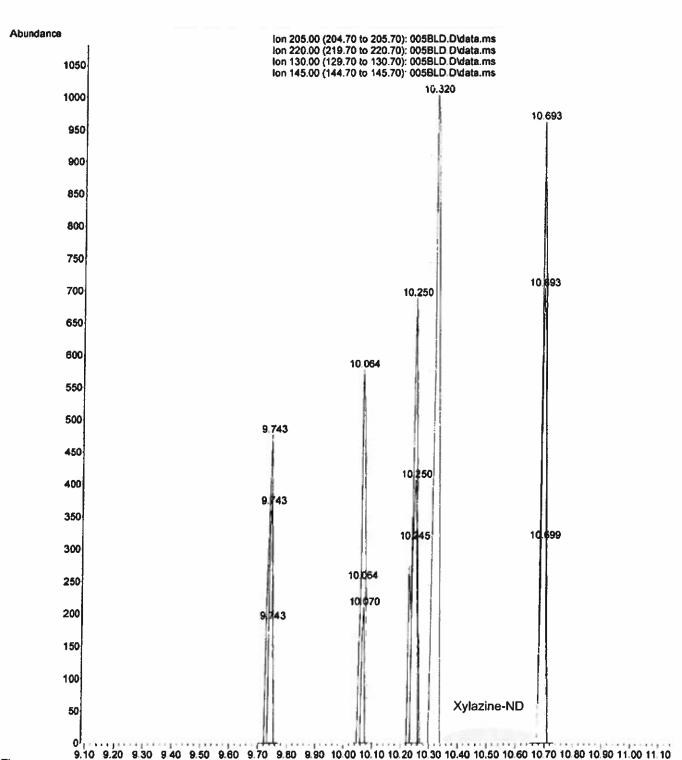


File :C:\Users\TOX\Desktop\092321\005BLD.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 14:17 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 5 BLD

Misc Info : 880519-3



Analysis Report



Sample Information

Sample Name Instrument Position

Operator

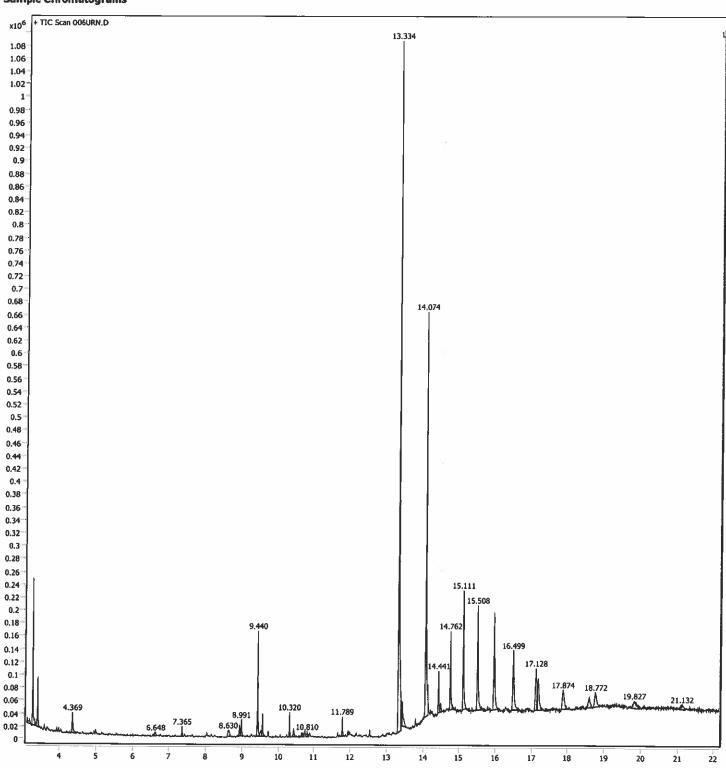
MATRIX BLANK 6 URN

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092321\006URN.D 9/23/2021 2:43:31 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

File :C:\Users\TOX\Desktop\092321\006URN.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

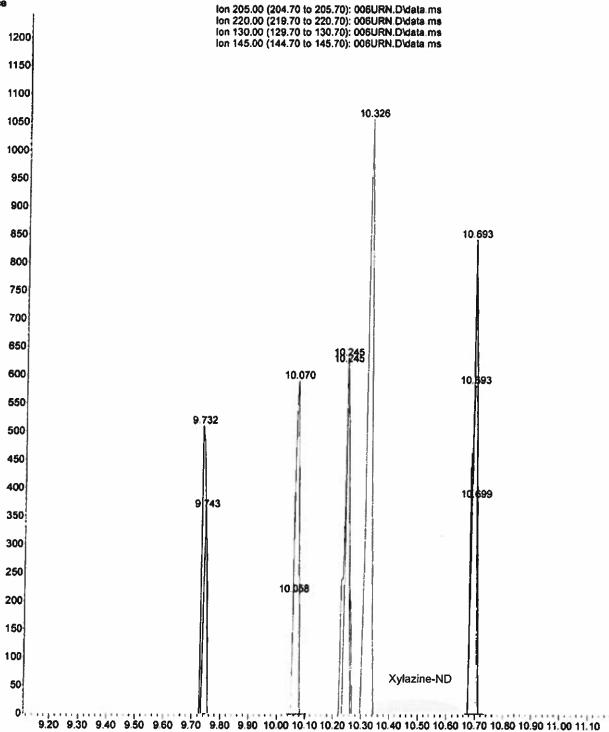
Acquired : 23 Sep 2021 14:43 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 6 URN

Misc Info : BUR101017

Vial Number: 47

Abundance

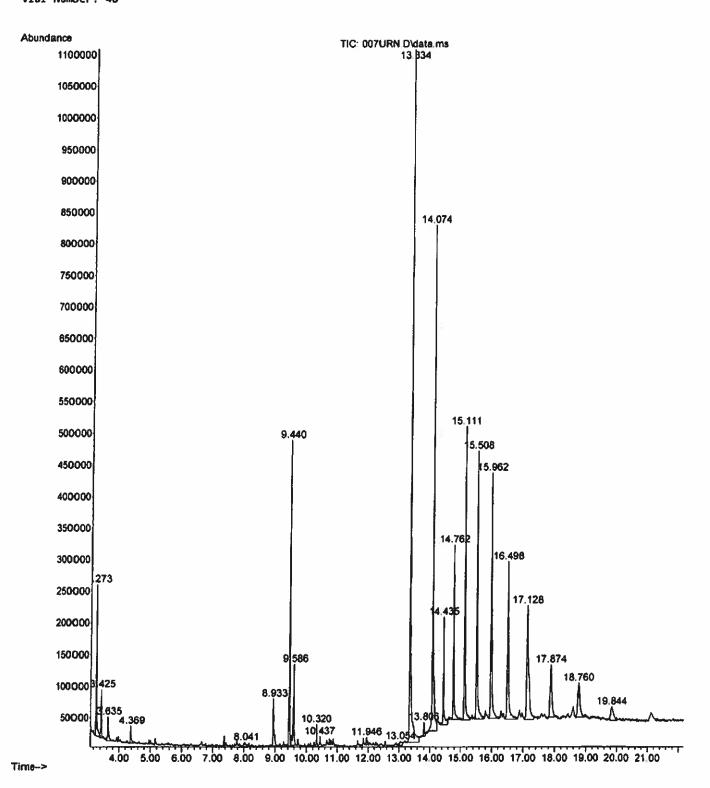


File :C:\Users\TOX\Desktop\092321\007URN.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 15:09 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 7 URN

Misc Info : BU06017 Vial Number: 48



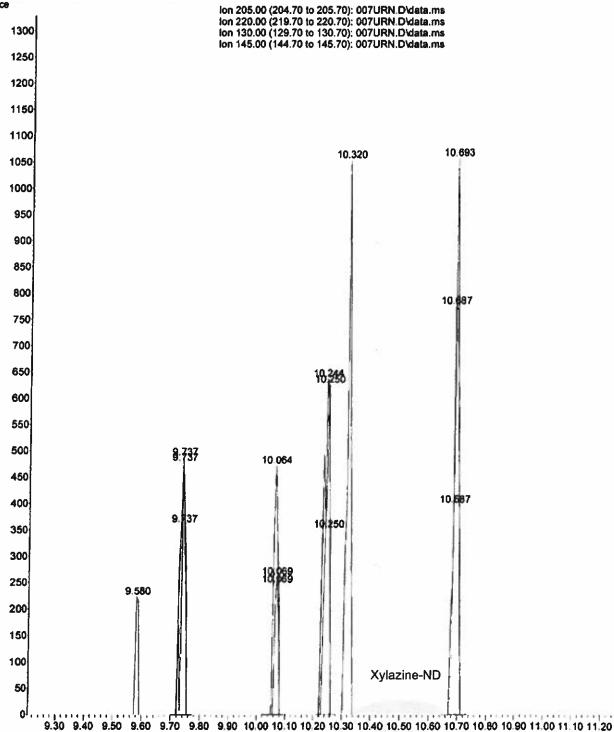
File :C:\Users\TOX\Desktop\092321\007URN.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 15:09 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 7 URN

Misc Info : 8U06017 Vial Number: 48

Abundance

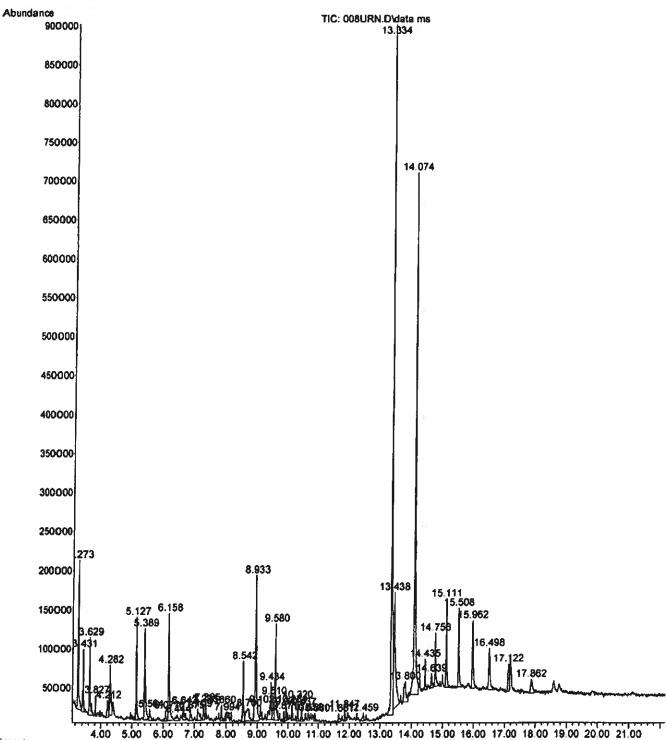


File :C:\Users\TOX\Desktop\092321\008URN.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 15:35 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 8 URN

Misc Info : BUR0819 Vial Number: 49



File :C:\Users\TOX\Desktop\092321\008URN.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

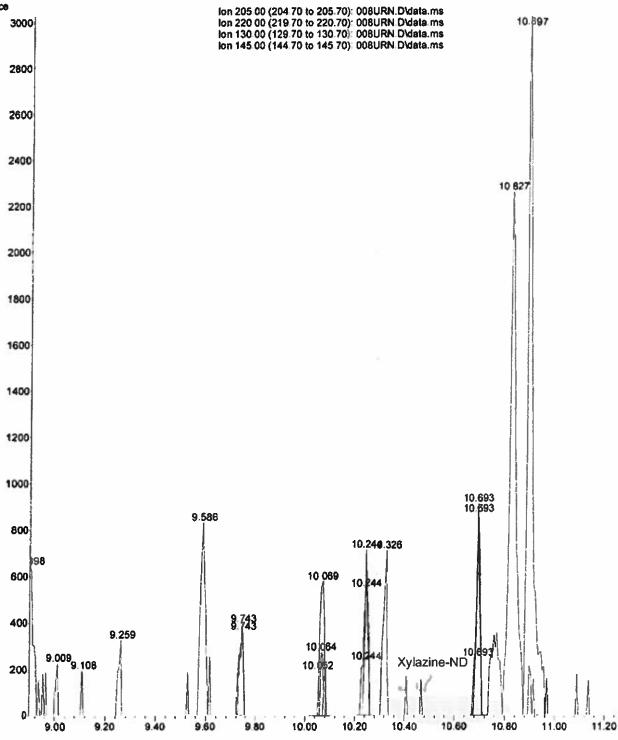
Acquired : 23 Sep 2021 15:35 using AcqMethod ALKALI.M

Instrument : #3 - Enhanced Sample Name: MATRIX BLANK 8 URN

Misc Info : BUR0819 Vial Number: 49



Time->



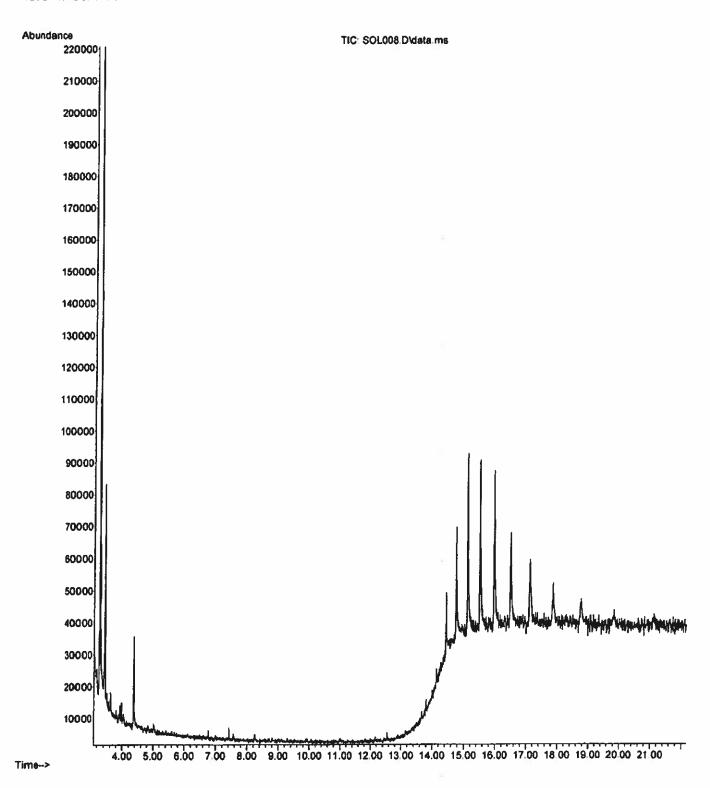
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Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 16:01 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: SOLVENT AFTER MATRIX 8

Misc Info : Vial Number: 50

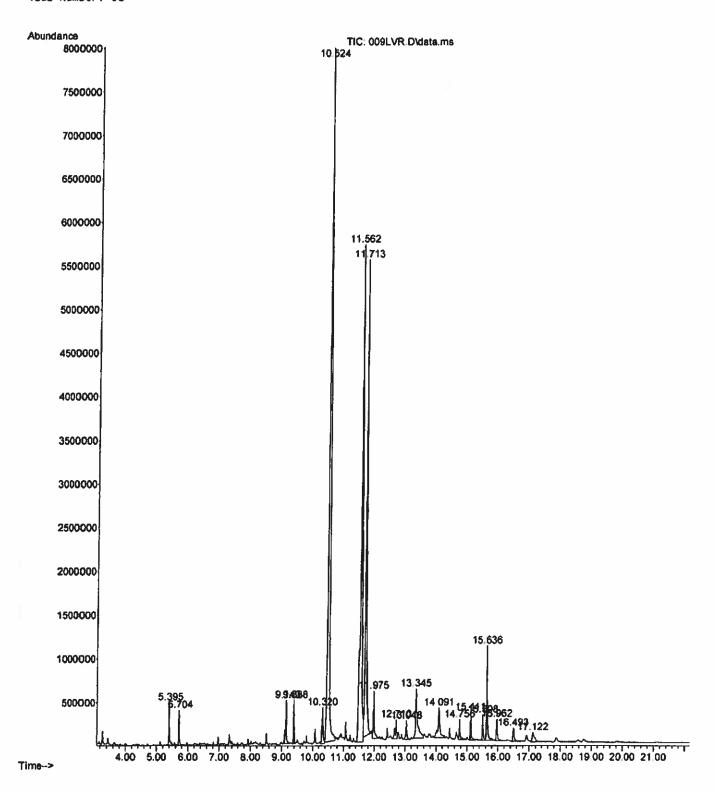


File :C:\Users\TOX\Desktop\092321\009LVR.D Operator : KM/QC DATA IN XYLAZINE VALIDATION Acquired : 23 Sep 2021 16:26 using AcqMe

using AcqMethod ALKALI.M

Instrument: #3 - Enhanced Sample Name: MATRIX BLANK 9 LVR

Misc Info : LIV0109 Vial Number: 51

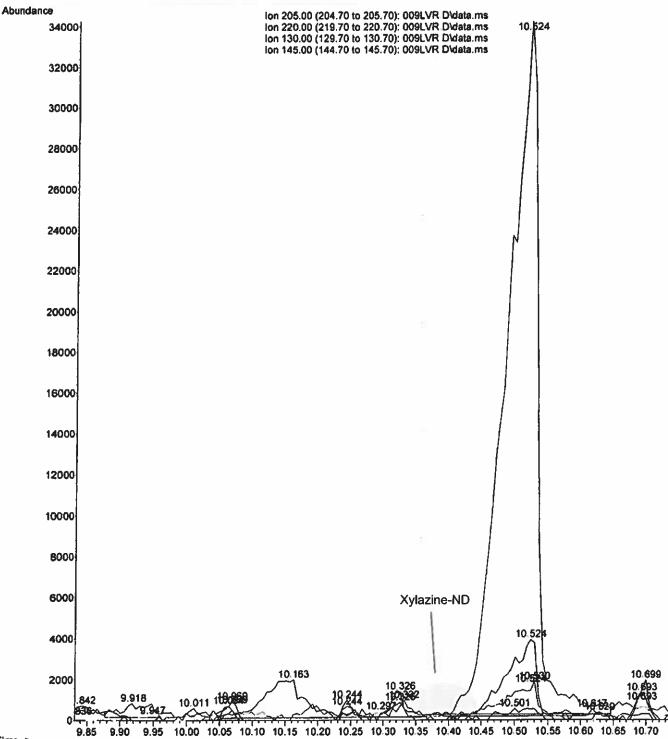


File :C:\Users\TOX\Desktop\092321\009LVR.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 16:26 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX BLANK 9 LVR

Misc Info : LIV0109 Vial Number: 51



File :C:\Users\TOX\Desktop\092321\009LVR.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

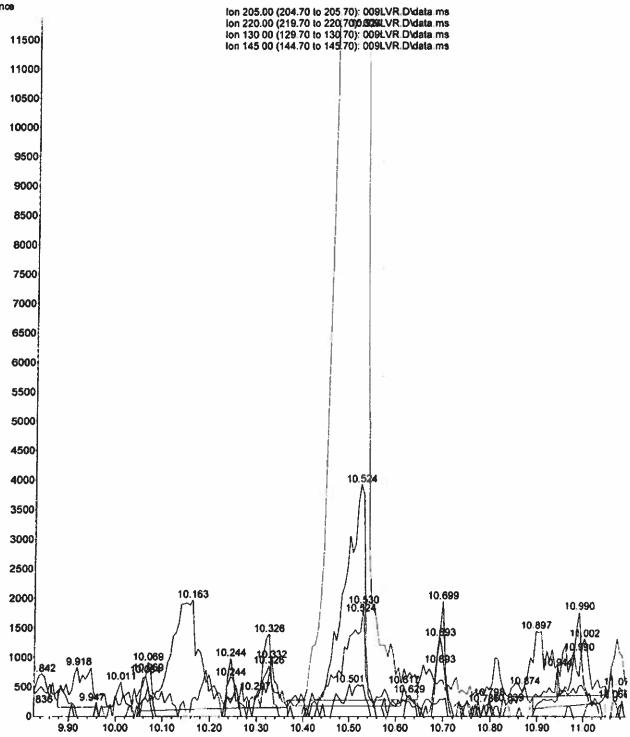
Acquired : 23 Sep 2021 16:26 using AcqMethod ALKALI.M

Instrument : #3 - Enhanced Sample Name: MATRIX BLANK 9 LVR

Misc Info : LIV0109 Vial Number: 51

Abundance

Time-->

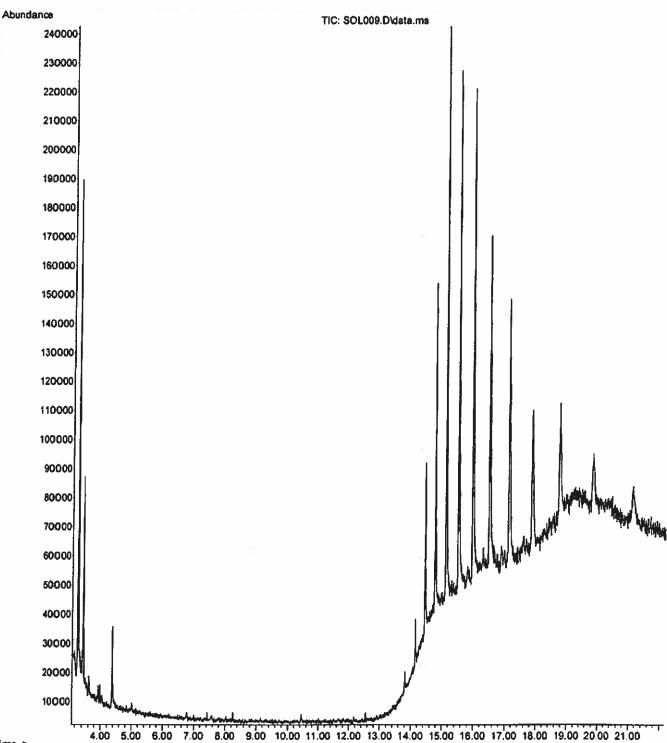


File :C:\Users\TOX\Desktop\092321\SOL009.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 23 Sep 2021 16:52 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: SOLVENT AFTER MATRIX 9

Misc Info : Vial Number: 52







Sample Information

Sample Name Instrument

Position

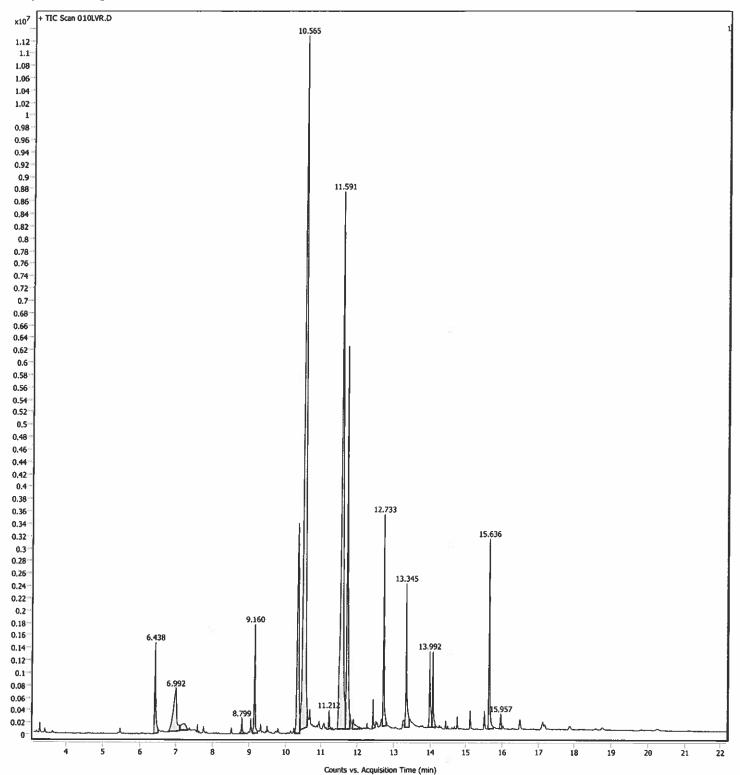
Operator

MATRIX BLANK 10 LVR

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092321\010LVR.D 9/23/2021 5:18:30 PM (UTC-04:00)

 ${\bf C:\ MassHunter\ GCMS\ 1\backslash methods\ ALKALI.M}$



:C:\Users\TOX\Desktop\092321\010LVR.D F1le : KM/QC DATA IN XYLAZINE VALIDATION

9.40

Time-->

9.60

9.80

10.00

10.20

10.40

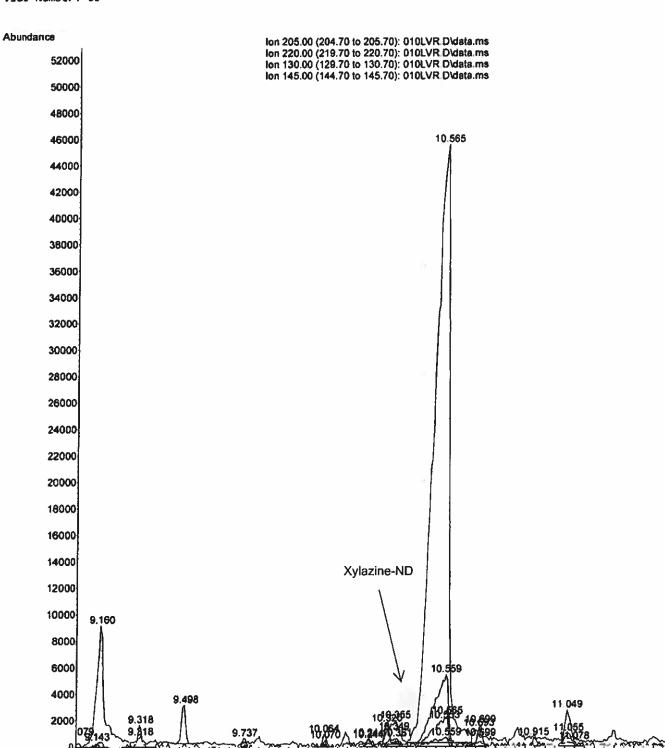
Operator : 23 Sep 2021 17:18 using AcqMethod ALKALI.M Acquired

Instrument : #3 - Enhanced

Sample Name: MATRIX BLANK 10 LVR

Misc Info : LIV09231

Vial Number: 53



11.40

11.20

10.60

10.80

11.00

ASSAY:

Analyst(s):

Base Screen

QC Data File: Xylazine Validation

K.Meinweiser

1 MATRIX 2 W/O ISTD BLD 3 MATRIX 1 W/O ISTD BLD 3 MATRIX 10 W/O ISTD URN 4 MATRIX 10 W/O ISTD LVR 5 MATRIX 10 W/O ISTD LVR 6 MATRIX 2 W/ ISTD ONLY BLD 7 MATRIX 2 W/ ISTD ONLY URN 9 MATRIX 2 W/ ISTD BLD 10 MATRIX 1 W ISTD BLD 11 MATRIX 2 W ISTD BLD 12 MATRIX 1 W ISTD BLD 14 MATRIX 1 W ISTD BLD 15 MATRIX 1 W ISTD BLD 16 MATRIX 1 W ISTD BLD 17 MATRIX 2 W ISTD BLD 18 MATRIX 2 W ISTD URN 16 MATRIX 1 W ISTD BLD 17 MATRIX 1 W ISTD URN 17 MATRIX 2 W ISTD URN 18 MATRIX 1 W ISTD URN 19 MATRIX 1 W ISTD URN 20 MATRIX 1 W ISTD URN 21 MARRIX 1 UW ISTD URN 22 MATRIX 1 LOD BLD 23 MATRIX 6 LOD URN 23 MATRIX 6 LOD URN	# E		Samula / ES
D D ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY	ا		20
	DLD	2.0 mg/L - 400uL of 0.01 mg/mL stock	07
ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY	BLD		27
ONLY ONLY ONLY ONLY ONLY ONLY ONLY ONLY	URN		28
ONLY ONLY ONLY ONLY ONLY ONLY	LVR	*satisfies 2.8.1.1.2	29
ONLY ONLY ONLY ONLY ONLY	/ BLD		30
ONLY ONLY ONLY	BLD		31
ONLY D D D D D ZOZI	URN		32
	Y LVR	*satisfies 2.8.1.1.3	33
	BLD	0.010 mg/L - 20uL of 0.001 mg/mL stock	34
77.66	BLD		35
1 2	URN		36
202	LVR		37
MATRIX 1 W ISTD MATRIX 6 W ISTD MATRIX 10 W ISTD MATRIX 2 W ISTD MATRIX 6 W ISTD MATRIX 10 W ISTD	BLD	0.10 mg/L - 20uL of 0.01 mg/mL stock	38
MATRIX 6 W ISTD MATRIX 10 W ISTD MATRIX 2 W ISTD MATRIX 1 W ISTD MATRIX 10 W ISTD MATRIX 10 W ISTD MATRIX 1 LOD MATRIX 1 LOD MATRIX 6 LOD	BLD		39
MATRIX 10 W ISTD MATRIX 2 W ISTD MATRIX 6 W ISTD MATRIX 6 W ISTD MATRIX 10 W ISTD MARRIX 1 LOD MATRIX 6 LOD	URN		40
MATRIX 2 W ISTD MATRIX 1 W ISTD MATRIX 10 W ISTD MATRIX 10 W ISTD MARRIX 1 LOD MATRIX 1 LOD MATRIX 6 LOD	LVR		41
MATRIX 1 W ISTD MATRIX 6 W ISTD MATRIX 10 W ISTD MARIX 1 LOD MATRIX 1 LOD MATRIX 6 LOD	BLD	2.0 mg/L - 400uL of 0.01 mg/mL stock	42
MATRIX 10 W ISTD MATRIX 10 W ISTD MARKY 2 LOB MATRIX 1 LOD MATRIX 6 LOD	BLD		43
MATRIX 10 W ISTD MARTX 2 LOD MATRIX 1 LOD MATRIX 6 LOD	URN		44
MATRIX 1 LOD MATRIX 6 LOD	LVR		45
	a BLD	0.005 mg/L - 10uL of 0.001 mg/mL stock	46
	BLD		47
	URN		48
MATRIA 10 LOD	LVR	*satisfies 2.8.1.1.6	49
25			20

Specimens removed from TX ADM storage, aliquots removed for analysis, specimens returned to TX ADM storage by, unless otherwise noted:

Date: 9-282021 Analyst:

Time Returned: NA

Time Removed: NA

220-F156 Toxiclogy Barcode Batch Worksheet Issued by Toxicology Program Manager Issue Date: 02-July-2020

Sample Info Item #

SPE lot #: 024|70-XD Control Charts Updated (Initials/Date): NA Extraction: LL /(SPE)

Reviewer / Date:

Qualtrax ID 26328 Page 1 of 1 Qualtrax Revision 1

Toxicology Batch Lot Summary Sheet

Analysis:	Base Quant/Screen				
QC Data File:	Xylazine	Validation			
Material	Lot Number	Expiration Date			
ISTD	ISTD-210510	5-10-22			
Xylazine Cal	C-XYLA-20210922	6-10-23			
Phosphate Buffer	9-21-21	9-21-23			
Acetic Acid	8-31-21	8-31-23			
Methanol	DZ846-US	3-10-22			
Hexane	000026918Z1542 1095 7.9.21	9.3.24 9-5-21 米			
THIA	1095 7.9.21	7.9.23			
DiH ₂ O	In-House	N/A			
Methylene Chloride/IPA/NH4OH	9-28-21	9-29-21			
		* OV UNTIL QC FAIL			
Matrix 1	BB0321-1				
Matrix 2	BB0721-1				
Matrix 6	BURIDIDI7				
Matrix 6	LVR09231				

Sequence Table (Front Injector):

vials loaded by AJ

	Location	SampleName	Method			SampleType
1	Vial 1	ETOAC	ALKALI	=======================================		
2	Vial 2	MATRIX 1 0.10 mg/L - BLD	ALKALI		1	Sample
3	Vial 3	MATRIX 2 0.10 mg/L - BLD	ALKALI		1	Sample
4	Vial 4	MATRIX 6 0.10 mg/L - URN	ALKALI		1	Sample
5	Vial 5	MATRIX BLANK after 0.1 mg/L	ALKALI		1	Sample Sample
6	Vial 6	MATRIX 1 0.50 mg/L - BLD	ALKALI		1	Sample
7	Vial 7	MATRIX 2 0.50 mg/L - BLD	ALKALI		1	Sample
8	Vial 8	MATRIX 6 0.50 mg/L - URN	ALKALI		1	Sample
9	Vial 9	MATRIX BLANK after 0.5 mg/L	ALKALI		1	Sample
10	Vial 10	MATRIX 1 1.0 mg/L - BLD	ALKALI		1	Sample
11	Vial 11	MATRIX 2 1.0 mg/L - BLD	ALKALI		1	Sample
12	Vial 12	MATRIX 6 1.0 mg/L - URN	ALKALI		1	Sample
13	Vial 13	MATRIX BLANK after 1.0 mg/L	ALKALI		1	Sample
14	Vial 14	MATRIX 1 2.0 mg/L - BLD	ALKALI		1	Sample
15	Vial 15	MATRIX 2 2.0 mg/L - BLD	ALKALI		1	Sample
16	Vial 16	MATRIX 6 2.0 mg/L - URN	ALKALI		1	Sample
17	Vial 17	MATRIX BLANK after 2.0 mg/L	ALKALI		1	Sample
18	Vial 19	MATRIX 1 W/ SW CTL - BLD	ALKALI		1	Sample
19	Vial 20	MATRIX 2 W/ SW CTL - BLD	ALKALI		1	Sample
20	Vial 21	MATRIX 6 W/ SW CTL - URN	ALKALI		1	Sample
21	Vial 22	MATRIX 10 W/ 0.1mg/L CAL	ALKALI		1	Sample
22	Vial 23	SOLVENT BLANK	ALKALI		1	Sample
23	Vial 24	MATRIX 1 W/ IH CTL - BLD	ALKALI		1	Sample
24	Vial 25	MATRIX 2 W/ IH CTL - BLD	ALKALI		1	Sample
25	Vial 26		ALKALI		1	Sample
26	Vial 27	MATRIX 10 W/ IH CTL - LVR	ALKALI		1	Sample
27	Vial 28	SOLVENT BLANK 1	ALKALI		1	Sample
28	Vial 29	MATRIX 1 W/ SW CTL + XYLAZ	ALKALI		1	Sample
29	Vial 30	MATRIX 2 W/ SW CTL + XYLAZ	ALKALI		1	Sample
30	Vial 31	MATRIX 6 W/ SW CTL + XYLAZ	ALKALI		1	Sample
31	Vial 32	MATRIX 10 W/ 0.1mg/L CAL +	ALKALI		1	Sample
32	Vial 33	SOLVENT BLANK 2	ALKALI		1	Sample
33	Vial 34	MATRIX 1 W/ IH CTL + XYLAZ			1	Sample
34	Vial 35	MATRIX 2 W/ IH CTL + XYLAZ	ALKALI		1	Sample
35	Vial 36	MATRIX 6 W/ IH CTL + XYLAZ	ALKALI		1	Sample
36	Vial 37		ALKALI		1	Sample
37	Vial 38	SOLVENT BLANK 3	ALKALI		1	Sample
38	Vial 39		ALKALI		1	Sample
39	Vial 40		ALKALI		1	Sample
40	Vial 41		ALKALI		1	Sample
41	Vial 42		ALKALI		1	Sample
42	Vial 43		ALKALI		1	Sample
43	Vial 44		ALKALI		1	Sample
	Vial 45		ALKALI	vial check	1	Sample
	Vial 46		ALKALI		1	Sample
	Vial 47		ALKALI	KM 9/29/21	1	Sample
	Vial 48		ALKALI	•	1	Sample
	Vial 49		ALKALI		1	Sample
	Vial 50		ALKALI			Sample
	Vial 81	_	ALKALI			Sample
	Vial 82		ALKALI			Sample
	Vial 83		ALKALI			Sample
	Vial 84	MATRIX 2 W/ISTD 0.010 mg/L				Sample
	Vial 85	MATRIX 6 W/ISTD 0.010 mg/L				Sample
55	Vial 86	MATRIX 10 W/ISTD 0.010 mg/ #	ALKALI.		1 8	Sample

					Page 2 of 2
56	Vial 87	MATRIX 1 W/ISTD 0.10 mg/L	ALKALI	1	Sample
57	Vial 88	MATRIX 2 W/ISTD 0.10 mg/L	ALKALI	1	Sample
58	Vial 89	MATRIX 6 W/ISTD 0.10 mg/L	ALKALI	1	Sample
59	Vial 90	MATRIX 10 W/ISTD 0.10 mg/L	ALKALI	1	Sample
60	Vial 91	MATRIX 1 W/ISTD 0-0102 mg/L	ALKALI	1	Sample
61	Vial 92	MATRIX 2 W/ISTD 2.0 1 2.0	ALKALI	1	Sample
62	Vial 93	MATRIX 6 W/ISTD 2.0 mg/L	ALKALI	1	Sample
63	Vial 94	MATRIX 10 W/ISTD 2.0 mg/L	ALKALI	1	Sample
64	Vial 95	SOLVENT BLANK 6	ALKALI	1	Sample
65	Vial 96	OFF	ALKALI	1	Sample

vial check 9/29/21

Operator: KM/QC DATA IN XYLAZINE VALIDATION Data Path: C:\MassHunter\GCMS\1\data\BASES\092821\ Instrument Control Pre-Seq Cmd: Data Analysis Pre-Seq Cmd: Instrument Control Post-Seq Cmd: Data Analysis Post-Seq Cmd: Method Sections To Run Sequence Barcode Options (X) Full Method () On Mismatch, Inject Anyway () Reprocessing Only () On Mismatch, Don't Inject (X) Barcode Disabled _____ 42) Sample 67 036 ALKALI MATRIX 10 LOD - LVR
43) Sample 68 037 ALKALI MATRIX 1 W/O ISTD - BLD
44) Sample 69 038 ALKALI MATRIX 2 W/O ISTD - BLD
45) Sample 70 039 ALKALI MATRIX 6 W/O ISTD - URN
46) Sample 71 040 ALKALI MATRIX 10 W/O ISTD - LVR
47) Sample 72 SOL5 ALKALI Solvent Blank 5
48) Sample 73 041 ALKALI MATRIX 1 W/ISTD ONLY - BLD
49) Sample 74 042 ALKALI MATRIX 2 W/ISTD ONLY - BLD
50) Sample 75 043 ALKALI MATRIX 2 W/ISTD ONLY - URN
51) Sample 76 044 ALKALI MATRIX 10 W/ISTD ONLY - LVR
52) Sample 77 045 ALKALI MATRIX 10 W/ISTD ONLY - LVR
52) Sample 77 045 ALKALI MATRIX 1 W/ISTD 0.010 mg/L 53) Sample 78 046 ALKALI MATRIX 2/W ISTD 0.010 mg/L 54) Sample 79 047 ALKALI MATRIX 6 W/ISTD 0.010 mg/L 55) Sample 80 048 ALKALI MATRIX 6 W/ISTD 0.010 mg/L 56) Sample 81 049 ALKALI MATRIX 1 W/ISTD 0.10 mg/L 57) Sample 82 050 ALKALI MATRIX 1 W/ISTD 0.10 mg/L 58) Sample 83 051 ALKALI MATRIX 2/W ISTD 0.10 mg/L - BLD
58) Sample 84 052 ALKALI MATRIX 6 W/ISTD 0.10 mg/L - BLD
59) Sample 84 052 ALKALI MATRIX 1 W/ISTD 0.10 mg/L - BLD
60) Sample 85 053 ALKALI MATRIX 1 W/ISTD 0.10 mg/L - BLD
61) Sample 86 054 ALKALI MATRIX 1 W/ISTD 2.0 mg/L - BLD
62) Sample 86 054 ALKALI MATRIX 1 W/ISTD 2.0 mg/L - BLD
63) Sample 86 054 ALKALI MATRIX 1 W/ISTD 2.0 mg/L - BLD
64) Sample 87 055 ALKALI MATRIX 1 W/ISTD 2.0 mg/L - BLD
63) Sample 88 056 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
64) Sample 87 055 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
65) Sample 88 056 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
66) Sample 87 055 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
67) Sample 88 056 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
68) Sample 88 056 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
69) Sample 89 SOL6 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
60) Sample 80 054 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
61) Sample 810 055 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
62) Sample 83 051 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD
63) Sample 84 052 ALKALI MATRIX 10 W/ISTD 2.0 mg/L - BLD KM 9/29/21

Sequence Name: C:\MassHunter\GCMS\1\sequence\alkalival.sequence.xml

VIAL CHECK KM 9/29/21

Last Modified: Tue Sep 28 11:39:41 2021

```
Calibration Table
______
                 General Calibration Setting
                       Thursday, November 17, 2022 12:05:52 PM
Calib. Data Modified :
                      2.000 %
Rel. Reference Window:
                       0.000 min
Abs. Reference Window:
Rel. Non-ref. Window: 2.000 %
Abs. Non-ref. Window: 0.000 min
Uncalibrated Peaks: not reported
Partial Calibration: Yes, identified peaks are recalibrated
Correct All Ret. Times: No, only for identified peaks
                 : Linear (some peaks differ, see below)
: Linear (Amnt) (some peaks differ, see
Curve Type
Origin
Weight
                        Linear (Amnt) (some peaks differ, see below)
Recalibration Settings:
Average Response : No Update
Average Retention Time: No Update
Calibration Report Options :
   Printout of recalibrations within a sequence:
       Calibration Table after Recalibration
       Normal Report after Recalibration
   If the sequence is done with bracketing:
       Results of first cycle (ending previous bracket)
Default Sample ISTD Information (if not set in sample table):
ISTD ISTD Amount Name
 # [mg/L]
____
 1 1.00000 METHAPYRILENE
                      Signal Details
Signal 1: NPD1 A, Front Signal
                      Overview Table
______
  RT Sig Lvl Amount Area Rsp.Factor Ref ISTD # Compound
           [mg/L]
11.033 1 1 0.00000 911.87921 0.00000 No No 1 TRAMADOL 11.046 1 1 0.00000 472.34546 0.00000 No No 1 XYLAZINE
11.278 1 1 1.00000 820.58740 1.21864e-3 No Yes 1 METHAPYRILENE
```

More compound-specific settings

Compound: TRAMADOL

Time Window : From 10.817 min To 11.254 min

Compound: XYLAZINE

Time Window : From 10.825 min To 11.267 min

Compound: METHAPYRILENE

Curve Type : Linear Origin : Included

Calibration Level Weights:/
Level 1 : 1

Peak Sum Table

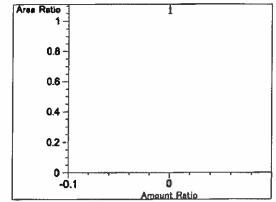
No Entries in table

4 Warnings or Errors :

Warning: Curve requires more calibration points., (TRAMADOL)
Warning: Overlapping peak time windows at 11.033 min, signal 1
Warning: Overlapping peak time windows at 11.046 min, signal 1

Warning: Curve requires more calibration points. at 11.033 min, signal 1

Calibration Curves



TRAMADOL at exp. RT: 11.033

NPD1 A, Front Signal

Correlation: 1.00000

Residual Std. Dev.: 0.00000

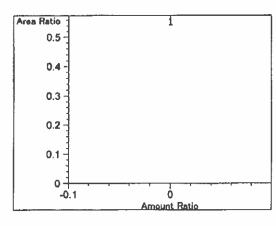
Formula: y = mx + b

m: 0.00000

b: 0.00000

x: Amount

y: Area



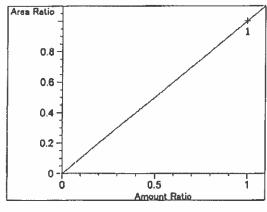
XYLAZINE at exp. RT: 11.046

NPD1 A, Front Signal

1,00000 Correlation: Residual Std. Dev.: 0.00000

Formula: y = mx + bm: 0.00000 b: 0.00000 b: 0.00000

> x: Amount y: Area



METHAPYRILENE at exp. RT: 11.278

NPD1 A, Front Signal

Correlation: 1.00000 Residual Std. Dev.: 0.00000

Formula: y = mx + b

m: 1.00000

0.00000 b:

x: Amount

y: Area

Sample Information

Sample Name Instrument

Position

Operator

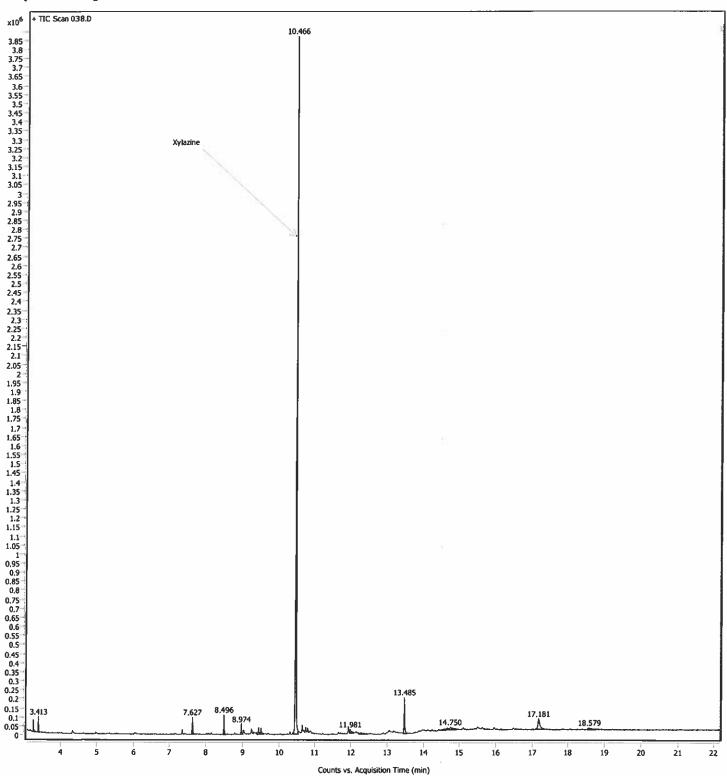
MATRIX 2 W/O ISTD - BLD

#3 - Enhanced

Acq. Time (Local) Method Path (Acq) KM/QC DATA IN XYLAZINE VALIDATION

Data File Path

C:\MassHunter\GCMS\1\data\BASES\092821\038.D 9/29/2021 7:45:35 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M





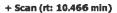
170 175 180 185 190 195 200 205 210 215 220 225

Sample Spectra

0

50 55

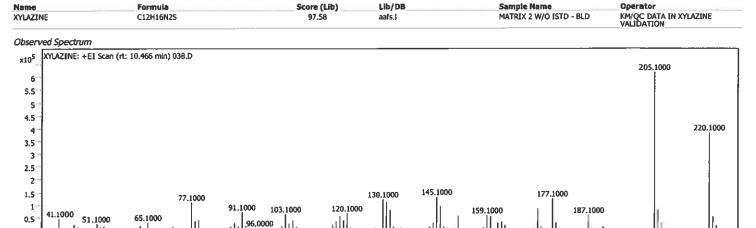
70 75



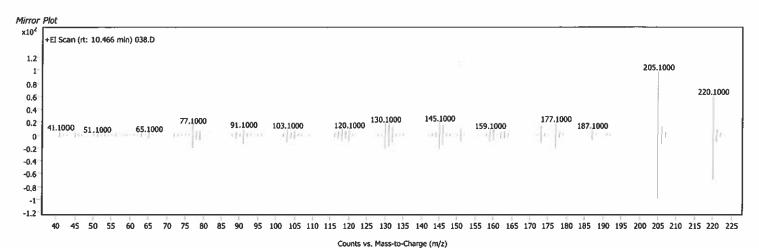
XYLAZINE; C12H16N2S

100

105 110 115



5 120 125 130 135 140 145 Counts vs. Mass-to-Charge (m/z)



Library Spectrum XYLAZINE C12H16N2S + Scan aafs.I x10³ 205,0000 220,0000 7 6 5 3 130.0000 145.0000 77.0000 177.0000 2 91.0000 103.0000 159,0000 187,0000 65,0000 41.0000 51.0000 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 160 185 190 195 200 205 210 215 220 225 45 50 55 65 70 75 80 85 90 40 60 Counts vs. Mass-to-Charge (m/z)

Injection Date: 9/29/2021 Sample Name:

7:11:18 AM MATRIX 2 W/O ISTD - BLD

Seq Line:

Vial 45

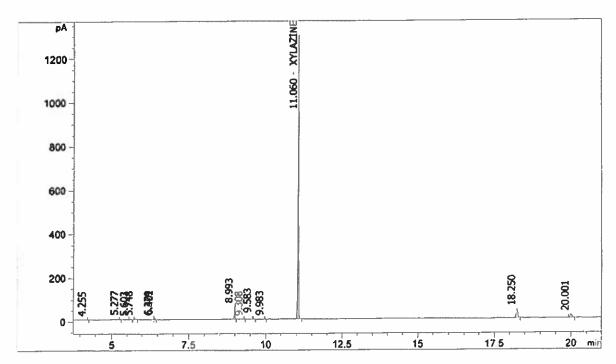
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.00 0	11.033	0.000	0.000	0.000000	TRAMADOL
11.0 6 0	11.046	1860.743	1293.416		XYLAZINE
0.00 0	11.278	0.000	0.000		METHAPYRILENE





Sample Information

Sample Name Instrument

Position

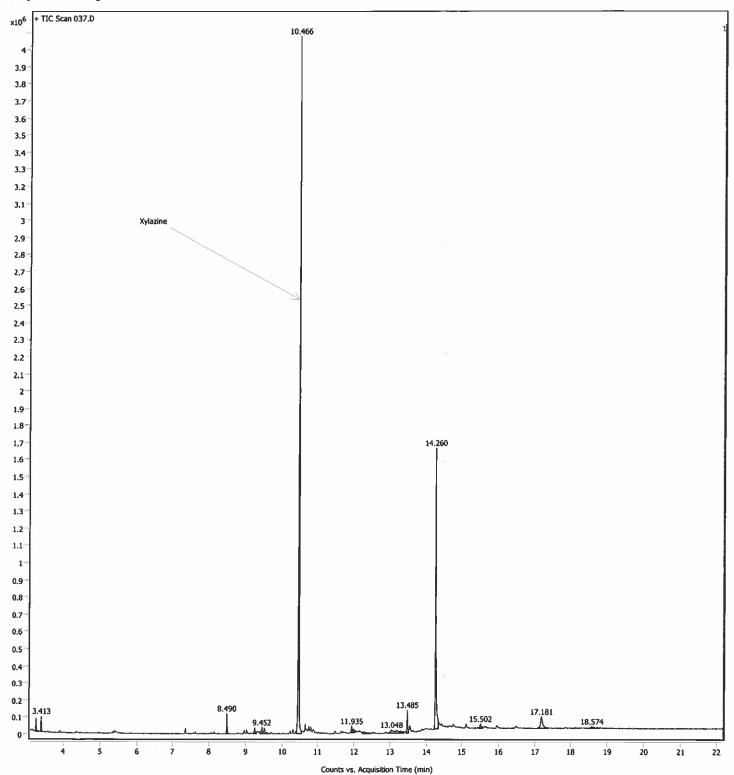
Operator

MATRIX 1 W/O ISTO - BLD

#3 - Enhanced

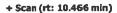
KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\037 D 9/29/2021 7:19:48 AM (UTC-04:00) $C:\label{lem:constraint} C:\label{lem:constraint} C:\label{lem:constraint} C:\label{lem:constraint} ALKALI.M$

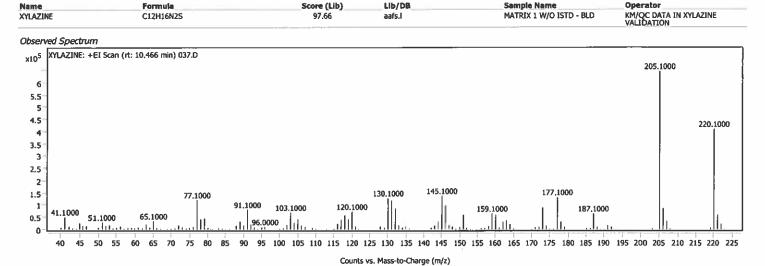


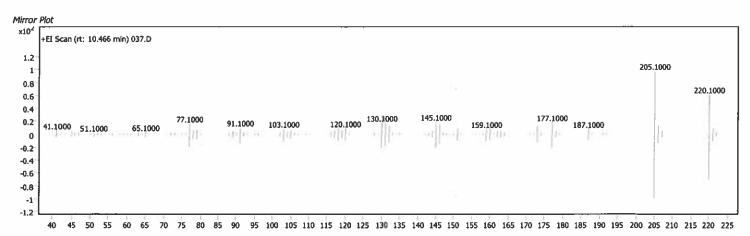


Sample Spectra

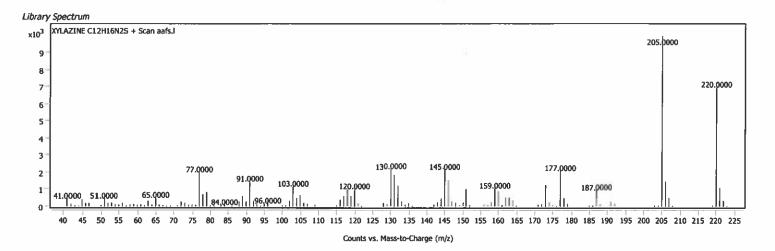


XYLAZINE; C12H16N2S





Counts vs. Mass-to-Charge (m/z)



Injection Date: Sample Name:

9/29/2021 MATRIX 1 W/O ISTD - BLD

6:47:00 AM

Seq Line:

Vial 44

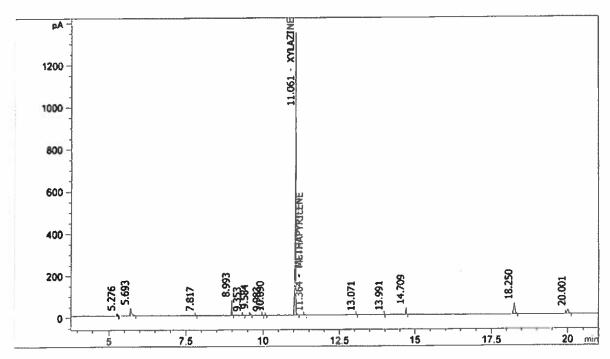
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.061	11.046	2010.912	1337.043		XYLAZINE
11.364	11.278	6.070	3.448		METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

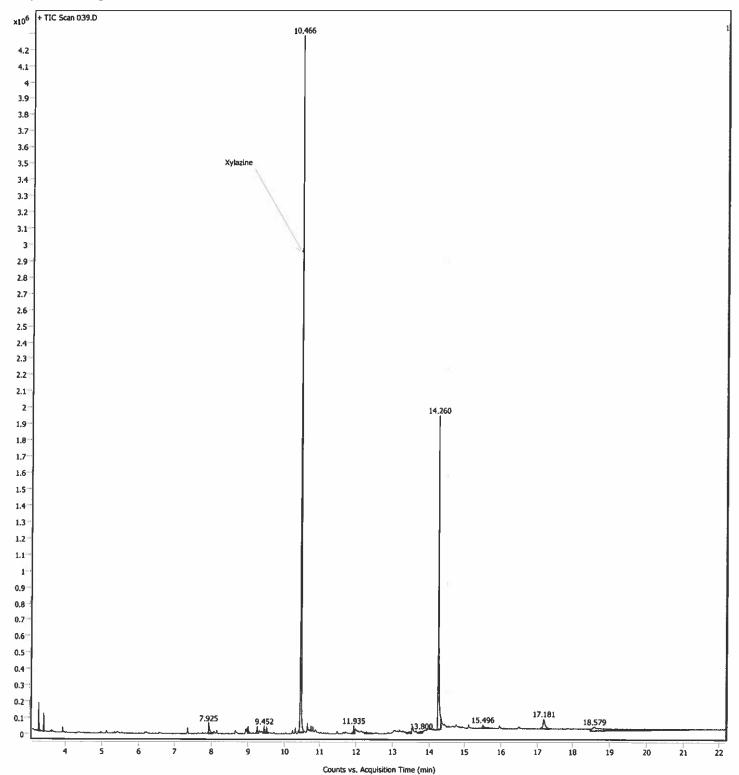
MATRIX 6 W/O ISTD - URN

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq)

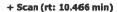
C:\MassHunter\GCMS\1\data\BASES\092821\039.D 9/29/2021 8:11:23 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M 2.0 mg/L - 400 uL of 0.01 mg/mL xylazine std



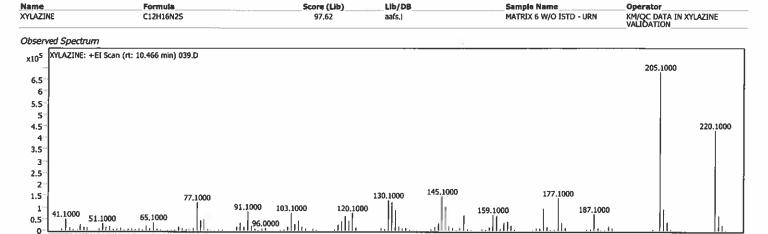




Sample Spectra



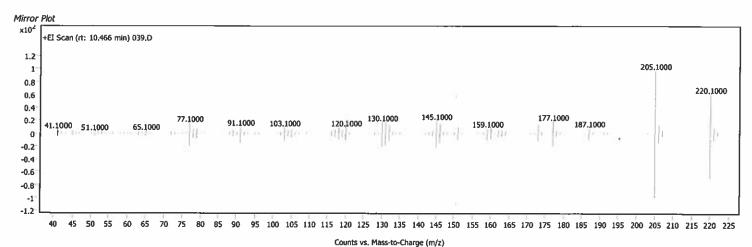
XYLAZINE; C12H16N2S



Counts vs. Mass-to-Charge (m/z)

125 130 135 140 145

155 160



Library Spectrum XYLAZINE C12H16N2S + Scan aafs.I ×10³ 205.0000 8 220,0000 6 5 3 130,0000 145,0000 77.0000 177,0000 2 91.0000 103.0000 159,0000 187,0000 41.0000 51.0000 50 55 65 70 80 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 Counts vs. Mass-to-Charge (m/z)

45

Injection Date:

9/29/2021

7:35:35 AM MATRIX 6 W/O ISTD - URN

Seq Line:

Vial 46

Sample Name:

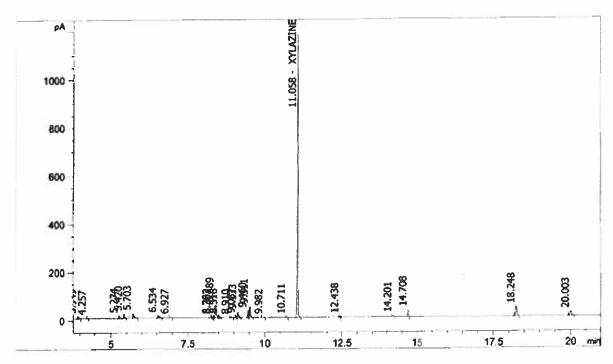
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT			Amount	
[min]	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.058	11.046	1684.577	1168.928	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 10 W/O ISTO - LVR

#3 - Enhanced

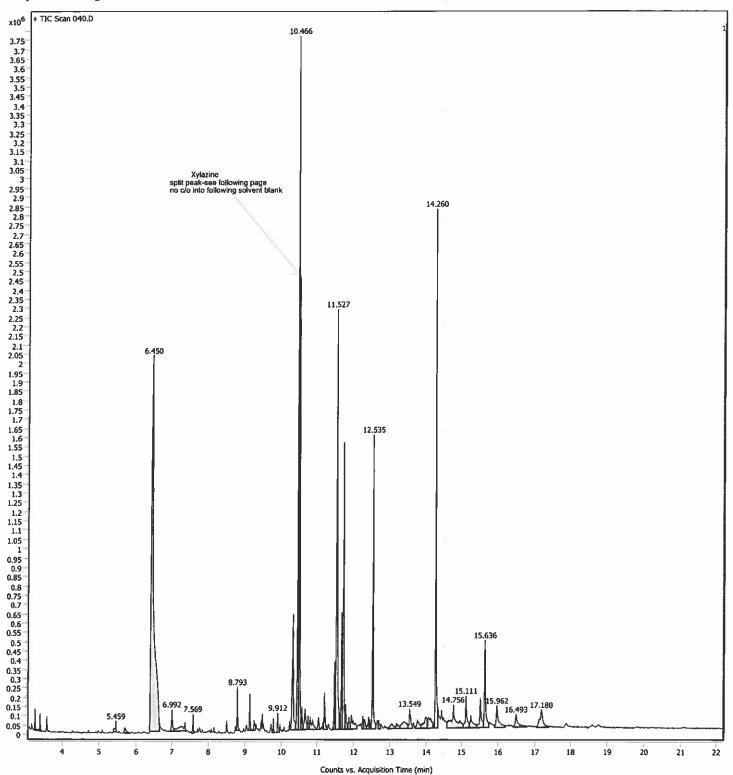
KM/QC DATA IN XYLAZINE VALIDATION

Acq. Time (Local) Method Path (Acq)

Data File Path

C:\MassHunter\GCMS\1\data\BASES\092821\040.D

9/29/2021 8:37:19 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

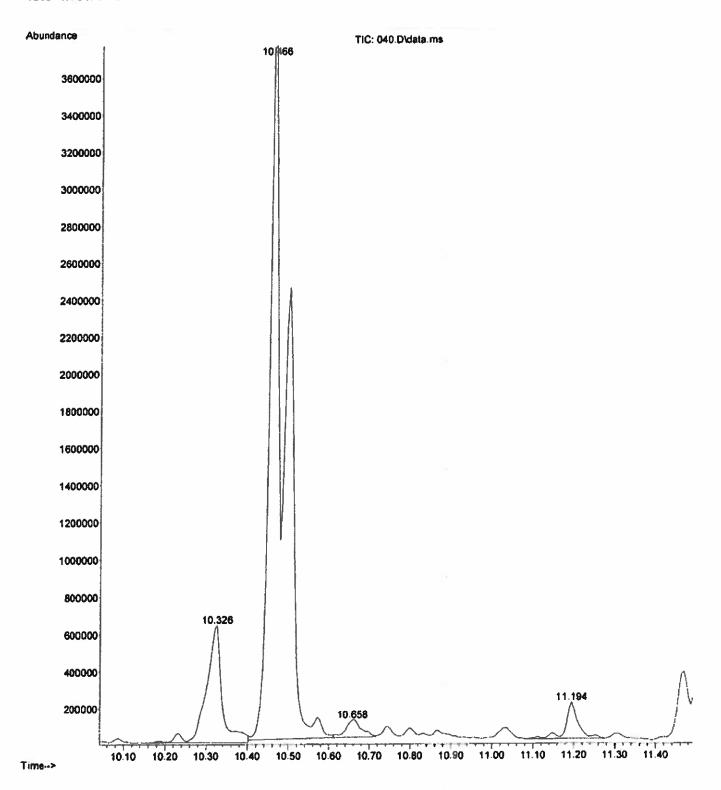


:C:\Users\TOX\Desktop\092821\040.D File Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired: 29 Sep 2021 08:37 us
Instrument: #3 - Enhanced
Sample Name: MATRIX 10 W/O ISTD - LVR using AcqMethod ALKALI.M

Misc Info : 2.0 mg/L - 400uL of 0.01 mg/mL XYLAZINE WS

Vial Number: 71



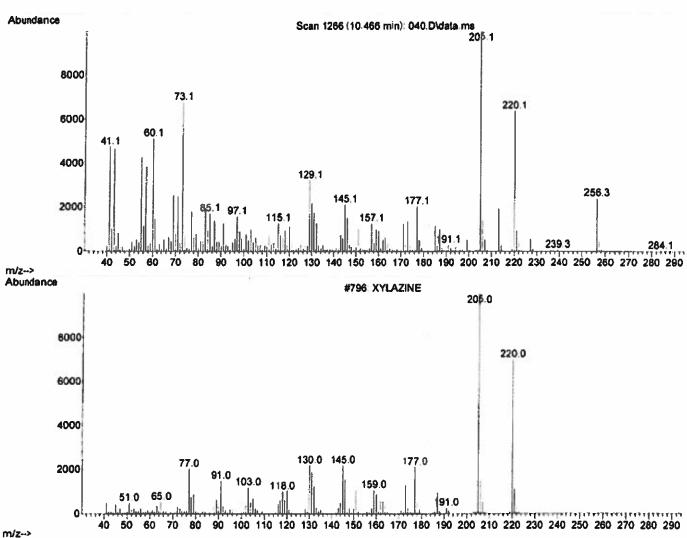
Library Searched : C:\MassHunter\Library\aafs.l

Quality : 99
ID : XYLAZINE

Sample Name: MATRIX 10 W/O ISTD - LVR File: C:\Users\TOX\Desktop\092821\040.D Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 08:37

Vial: 71



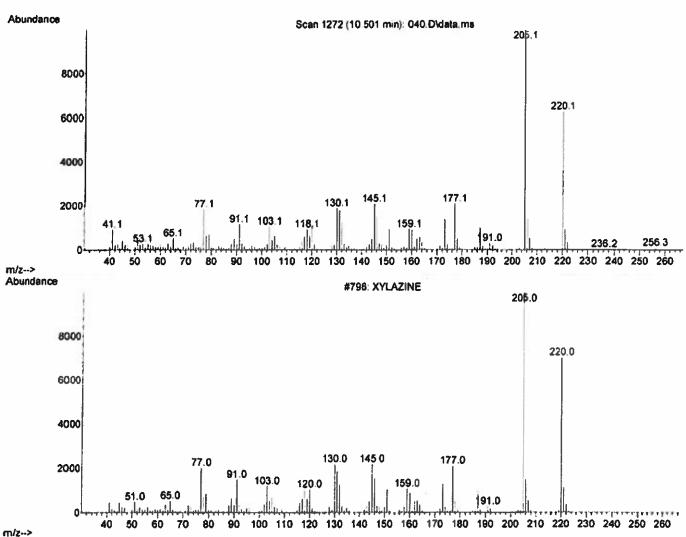
Library Searched : C:\MassHunter\Library\aafs.l

Quality : 99
ID : XYLAZINE

Sample Name: MATRIX 10 W/O ISTD - LVR File: C:\Users\TOX\Desktop\092821\040.D Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 08:37

Vial: 71



Injection Date: Sample Name: 9/29/2021

7:59:56 AM

Seq Line:

46

Vial 47

Sample Info:

Acq. Method:

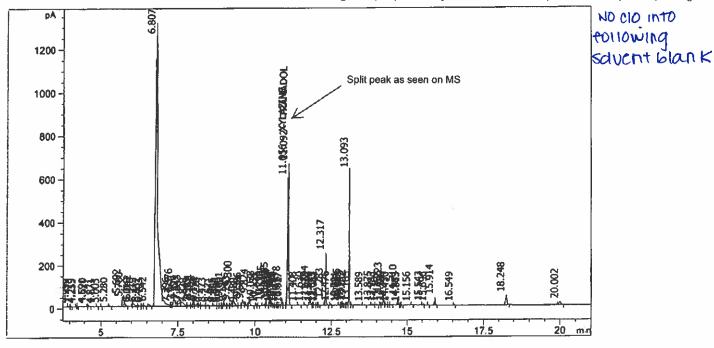
C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 10 W/O ISTD - ->

KM/QC DATA IN XYLAZINE VALIDATION

2.0 mg/L - split peak only seen in LVR sample - OK for qual reporting



RT	Exp RT			Amount	
[min]	(min)	Area	Height	mg/L	Compound
11.056	11.046	806.661	593.069	0.000000	XYLAZINE
11.092	11.033	979.896	658.757	0.000000	TRAMADOL
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE





Sample Information

Sample Name Instrument

Position

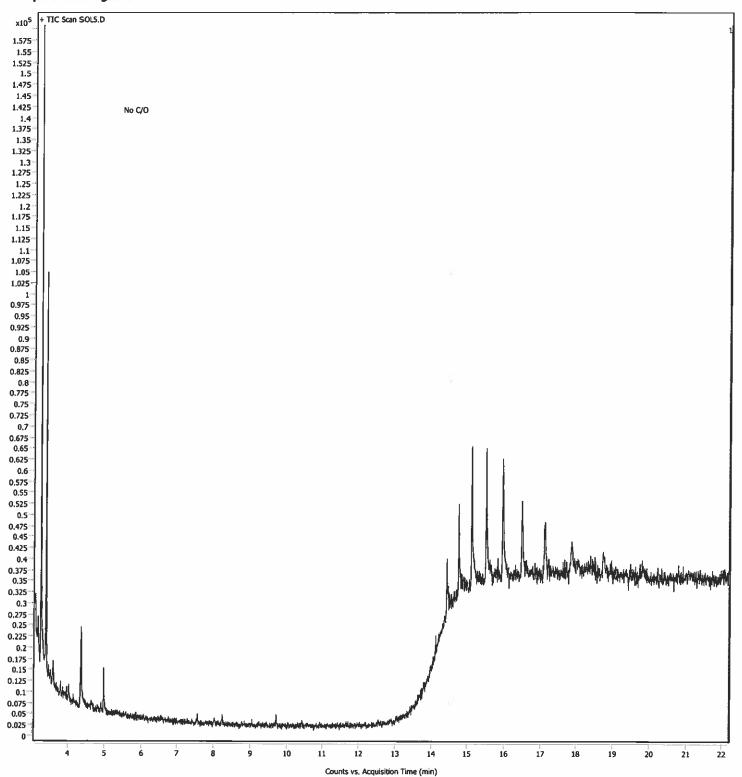
Operator

Solvent Blank 5

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq, Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL5.D 9/29/2021 9:03:08 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M



Injection Date: Sample Name:

9/29/2021

8:24:14 AM

Seq Line:

Sample Info:

SOLVENT BLANK 5

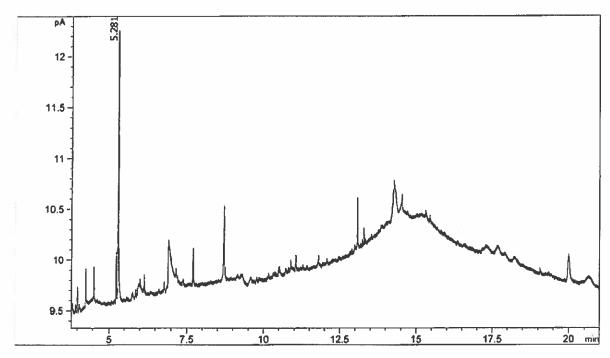
Vial 48

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE

Sample Information

Position

Operator

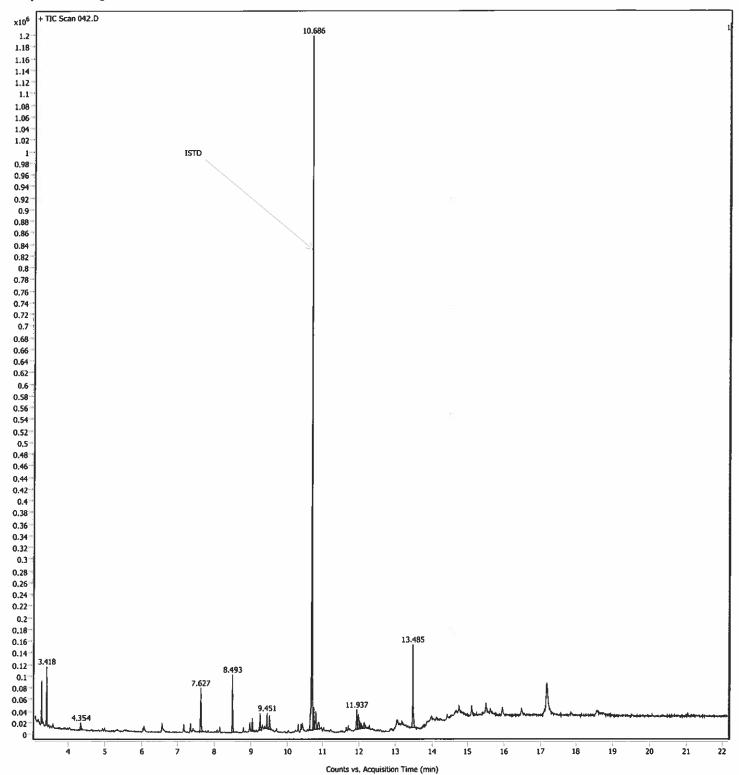
Sample Name Instrument

MATRIX 2 W/ISTD ONLY - BLD

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\042.D 9/29/2021 9:54:51 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M



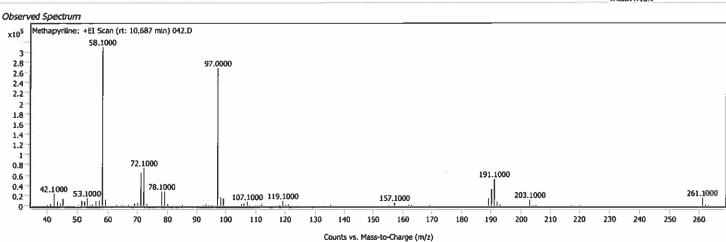


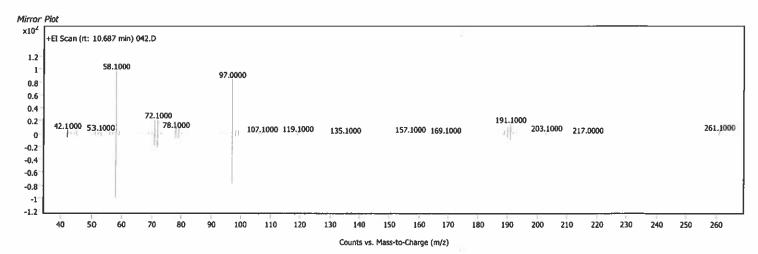
Sample Spectra

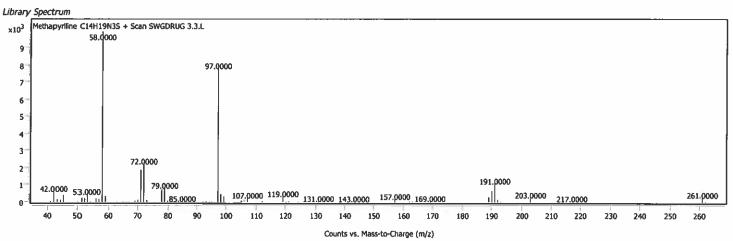


Methapyriline; C14H19N3S









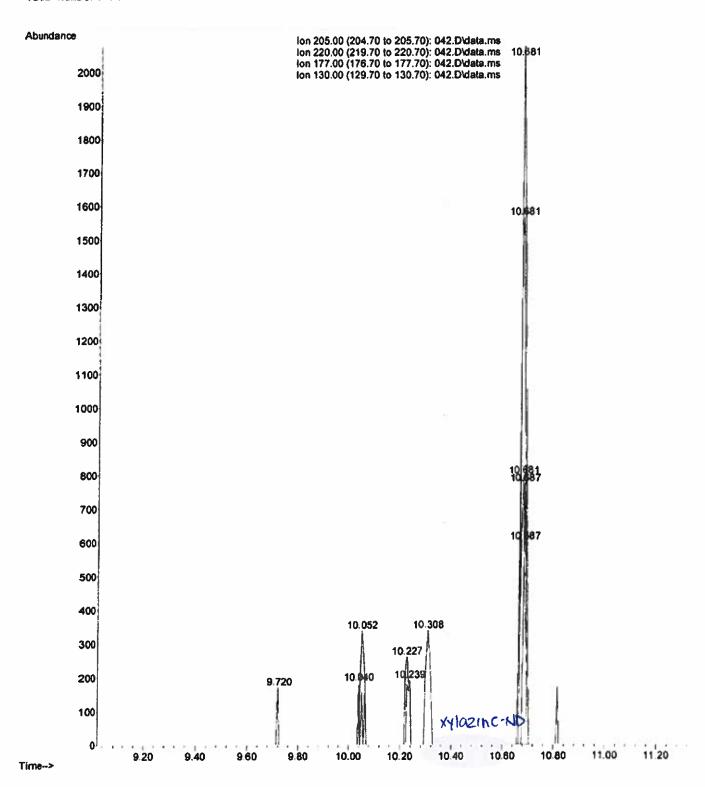
File :C:\Users\TOX\Desktop\092821\042.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 29 Sep 2021 09:54 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 2 W/ISTD ONLY - BLD

Misc Info : Vial Number: 74



Injection Date:

9/29/2021

9:12:52 AM

Seq Line:

Vial 50

Sample Info:

Acq. Method:

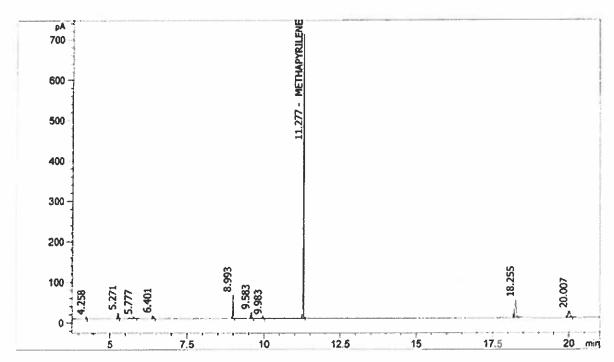
Sample Name:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 2 W/ISTD ONLY ->

KM/QC DATA IN XYLAZINE VALIDATION



[min] (min) Area Height mg/L Compound	
0.000 11.033 0.000 0.000 0.000000 TRAMADOL 0.000 11.046 0.000 0.000 0.000000 XYLAZINE 11.277 11.278 805.740 699.676 1.000000 METHAPYRILENE	

Sample Information

Sample Name Instrument

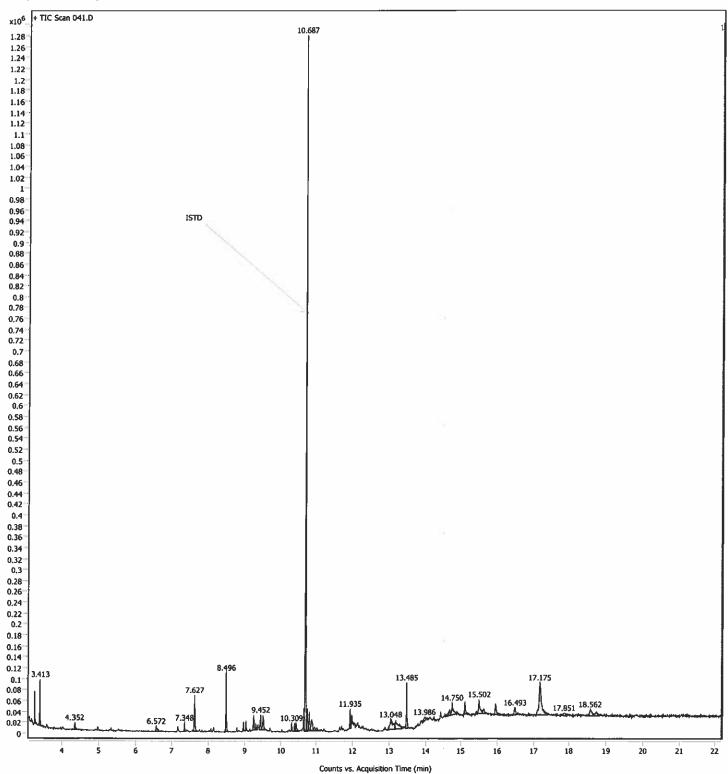
Position

Operator

MATRIX 1 W/ISTD ONLY - BLD

#3 - Enhanced

73 KM/QC DATA IN XYLAZINE VALIDATION Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\041.D 9/29/2021 9:28:54 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



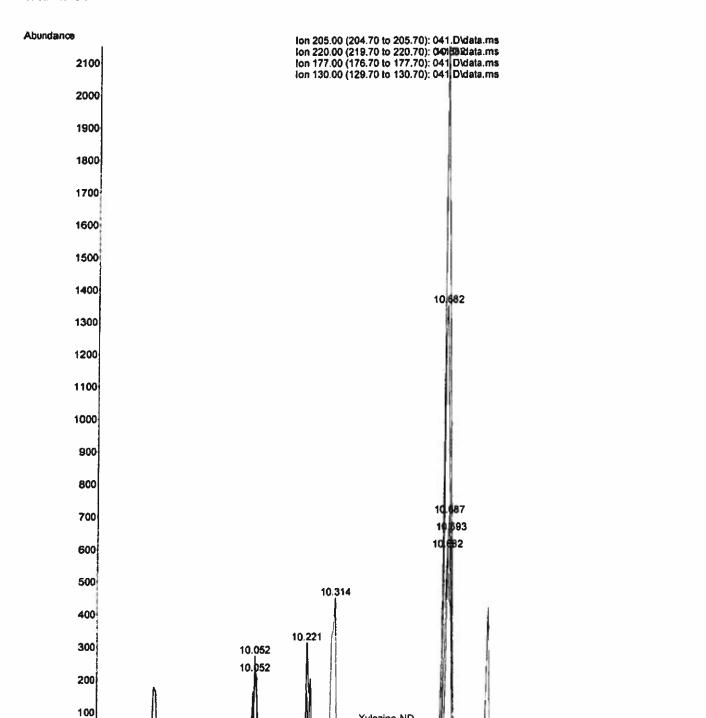
File :C:\Users\TOX\Desktop\092821\041.D : KM/QC DATA IN XYLAZINE VALIDATION Operator

: 29 Sep 2021 09:28 using AcqMethod ALKALI.M Acquired

Instrument: #3 - Enhanced

Sample Name: MATRIX 1 W/ISTD ONLY - BLD

Misc Info : Vial Number: 73



Xylazine-ND

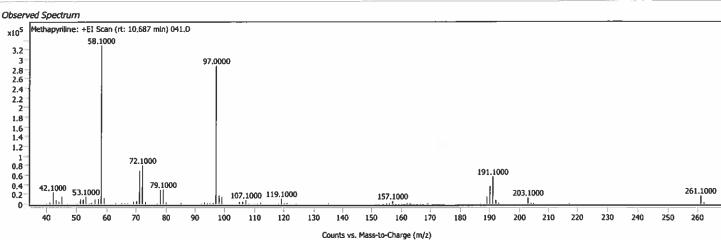
9.60 9.70 9.80 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00 11.10 11.20 11.30 11.40

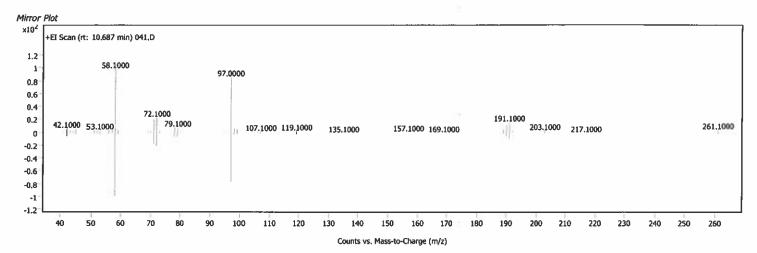


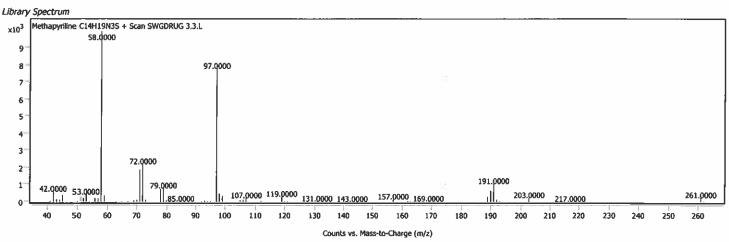


Methapyriline; C14H19N3S









Injection Date: Sample Name:

9/29/2021

8:48:31 AM MATRIX 1 W/ISTD ONLY ->

Seq Line:

48 Vial 49

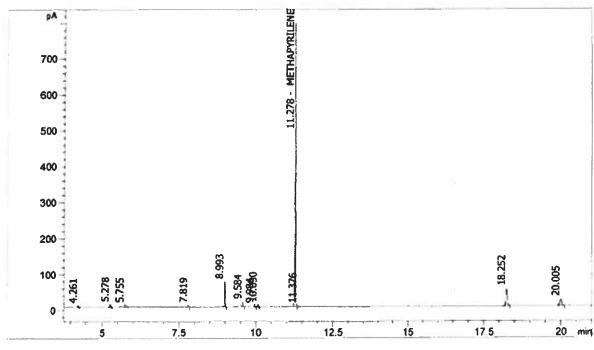
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000 0.000	0.000000	TRAMADOL XYLAZINE
11.278	11.278	917.259	787.908	1,000000	METHAPYRILENE



Sample Information

Position

Operator

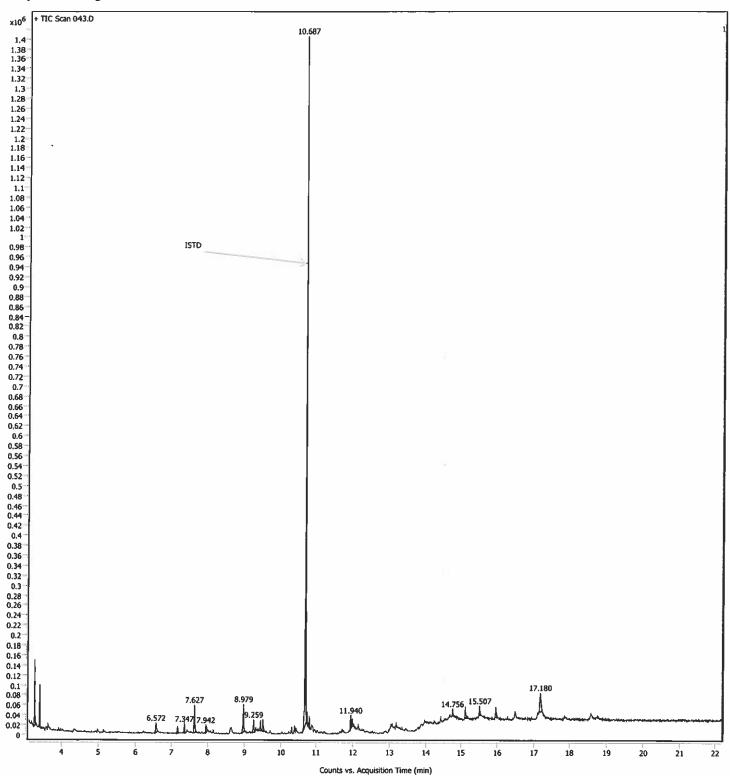
Sample Name Instrument

MATRIX 6 W/ISTD ONLY- URN

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

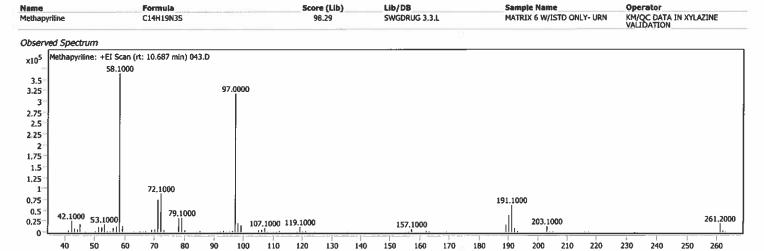
Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\043.D 9/29/2021 10:20:37 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M





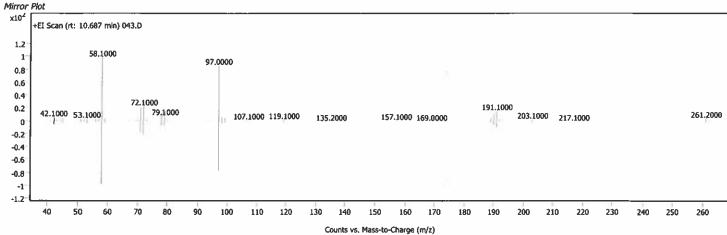
+ Scan (rt: 10.687 min)

Methapyriline; C14H19N3S

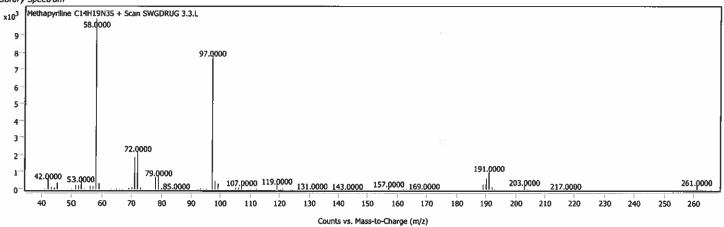


Counts vs. Mass-to-Charge (m/z)





Library Spectrum



File :C:\Users\TOX\Desktop\092821\043.D Operator : KM/QC DATA IN XYLAZINE VALIDATION

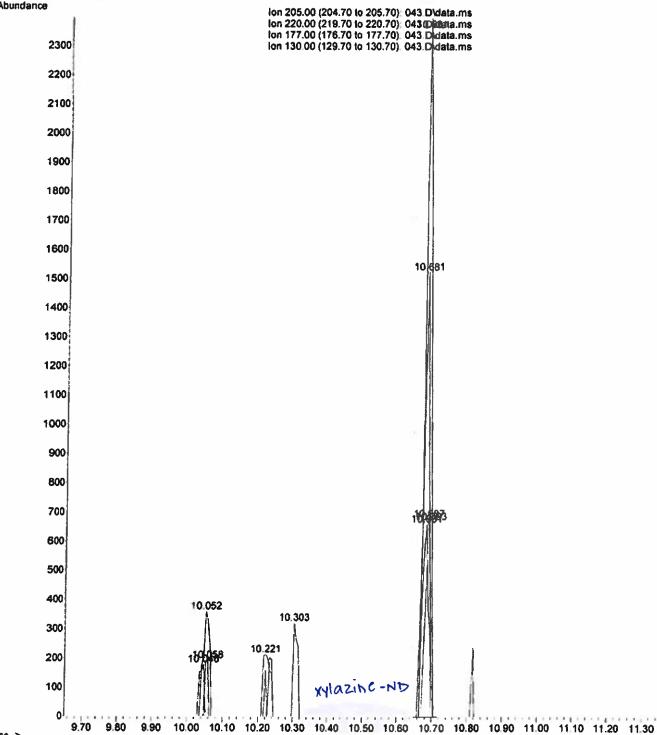
Acquired : 29 Sep 2021 10:20 using AcqMethod ALKALI.M

Instrument : #3 - Enhanced

Sample Name: MATRIX 6 W/ISTD ONLY- URN

Misc Info : Vial Number: 75





Injection Date: 9/29/2021 9:37:10 AM Sample Name:

Seq Line:

50

Vial 81

Sample Info:

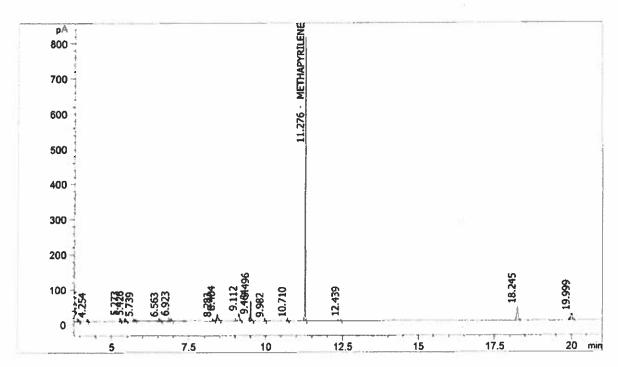
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 6 W/ISTD ONLY-->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT			Amount	
[min]	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMACOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
11.276	11.278	916.839	806.497	1.000000	METHAPYRI LENE

.



Sample Information

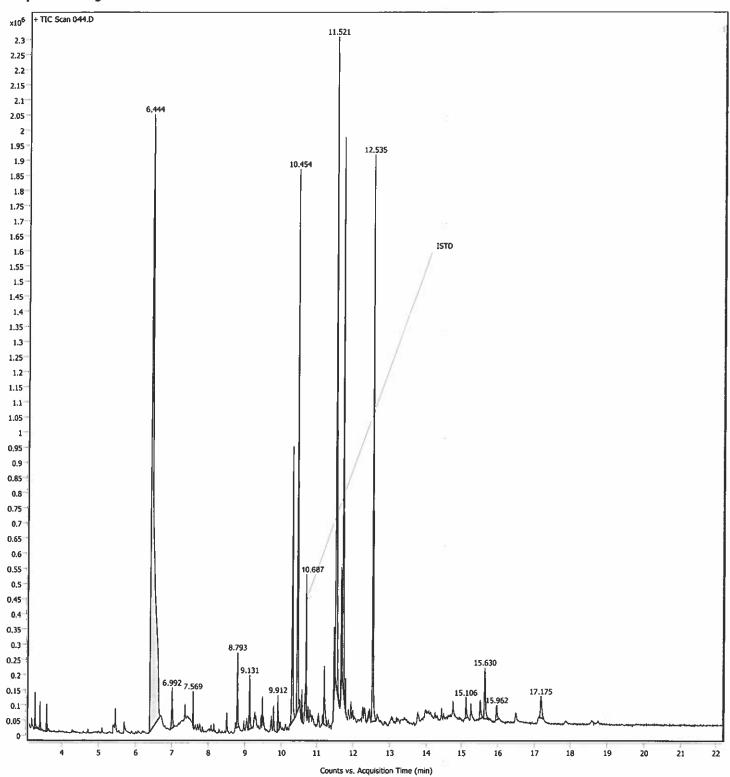
Operator

Sample Name MATRIX 10 W/ISTD ONLY- LVR

Instrument Position

#3 - Enhanced KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\044.D 9/29/2021 10:46:27 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

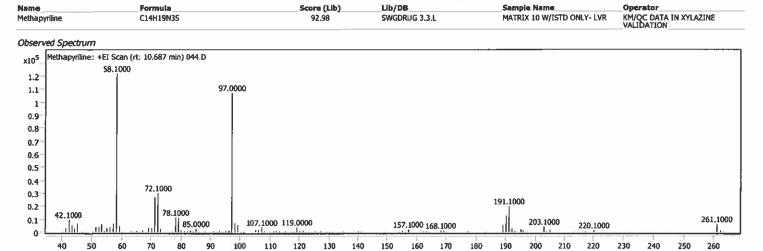


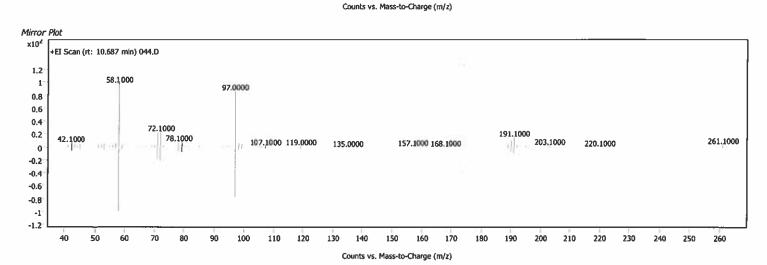


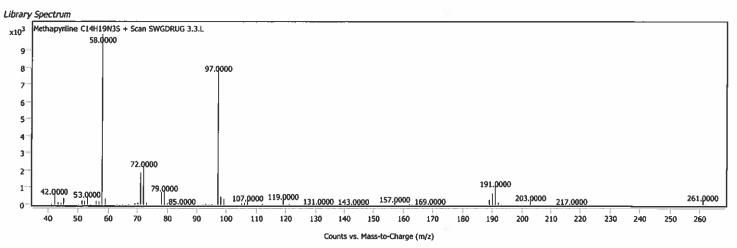


+ Scan (rt: 10.687 min)

Methapyriline; C14H19N3S







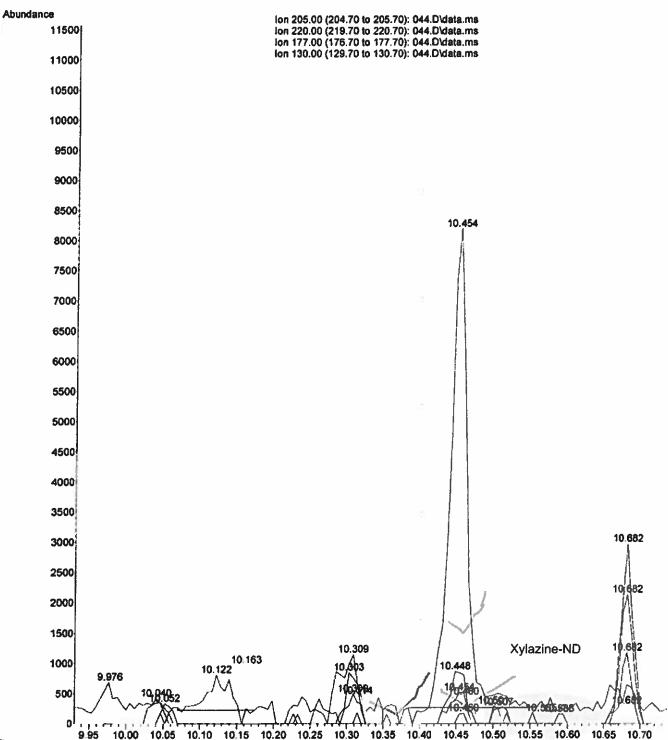
File :C:\Users\TOX\Desktop\092821\044.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 29 Sep 2021 10:46 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 10 W/ISTD ONLY- LVR

Misc Info : Vial Number: 76



Time-->

Sample Information

Sample Name Instrument

Position

Operator

SOLVENT AFTER MATRIX 10

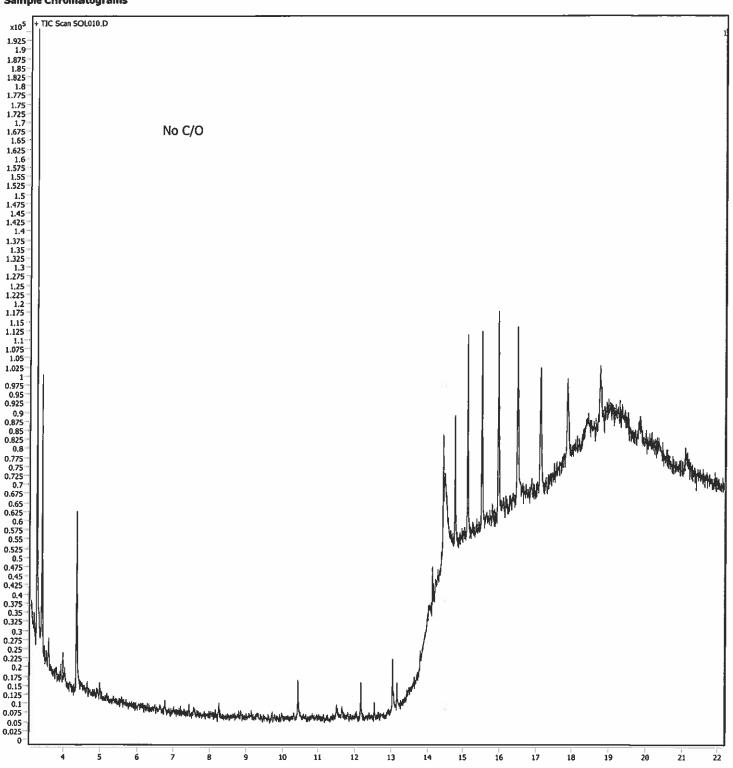
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092321\SOL010.D 9/23/2021 5:44:18 PM (UTC-04:00)

C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

Injection Date: Sample Name: 9/29/2021

10:01:28 AM

Seq Line:

51

Vial 82

Sample Info:

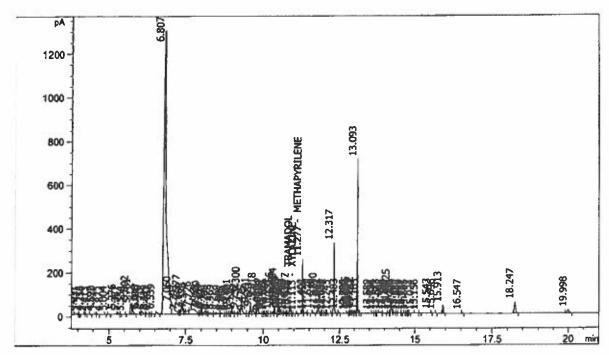
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 10 W/ISTD ONLY->

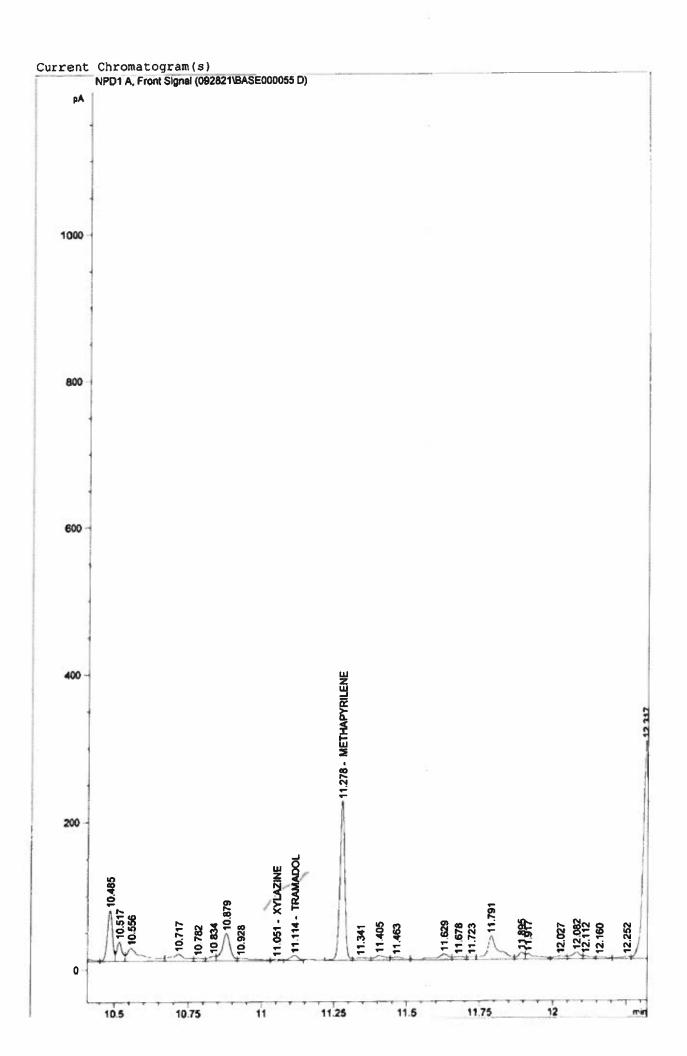
Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
10.978	11.033	5.145 5.260	2.034 2.223	0.000000	TRAMADOL ND XYLAZINE
11.277	11.278	292.603	246.618	1.000000	METHAPYRILENE





Sample Information

Sample Name Instrument

MATRIX 2/W ISTD 0.010 mg/L-BLD

Data File Path

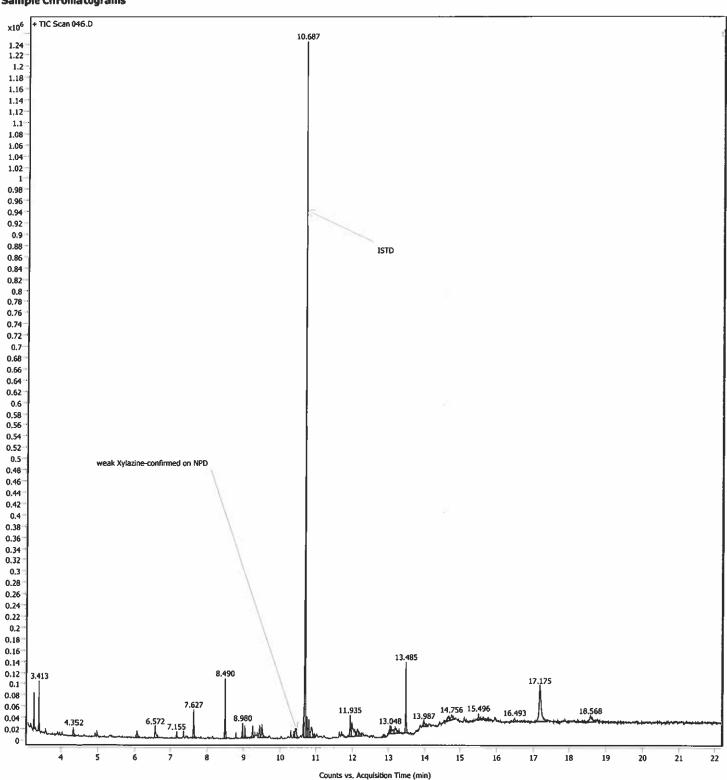
Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\046.D

9/29/2021 11:38:09 AM (UTC-04:00) $C:\label{lem:constraint} C:\label{lem:constraint} C:\label{lem:constraint} Was shunter\label{lem:constraint} GCMS\label{lem:constraint} I:\label{lem:constraint} Was shunter\label{lem:constraint} GCMS\label{lem:constraint} I:\label{lem:constraint} Was shunter\label{lem:constraint} GCMS\label{lem:constraint} V:\label{lem:constraint} Was shunter\label{lem:constraint} Was shunter\label{lem:constraint} C:\label{lem:constraint} Was shunter\label{lem:constraint} Was shunter\label{le$

Position

KM/QC DATA IN XYLAZINE VALIDATION

Operator

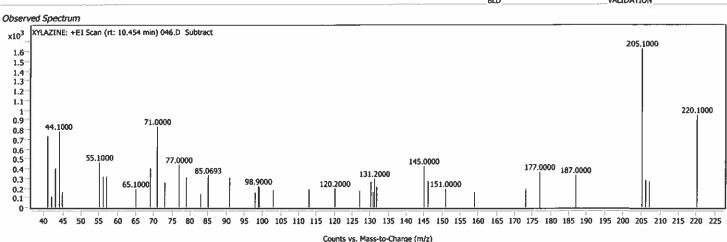


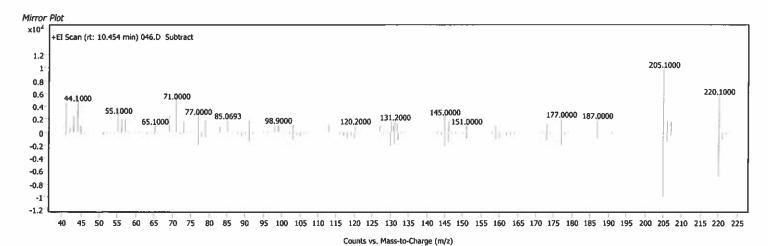


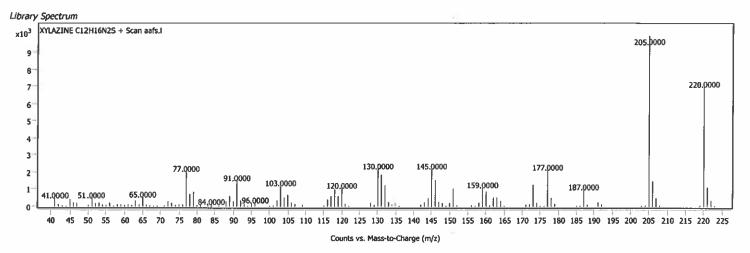














203,1000

261.2000

Sample Spectra

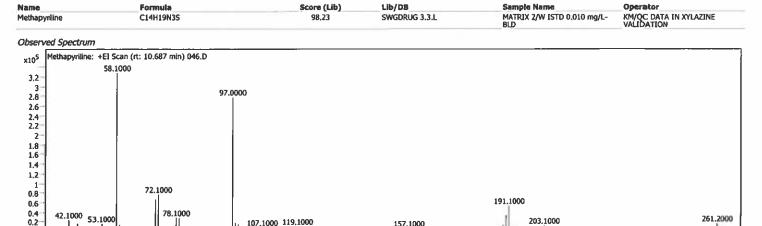


Methapyriline; C14H19N3S

107,1000 119,1000

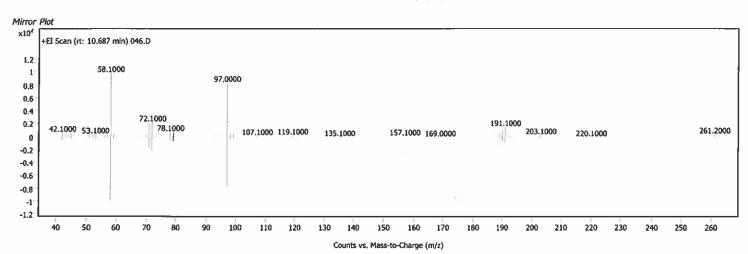
78,1000

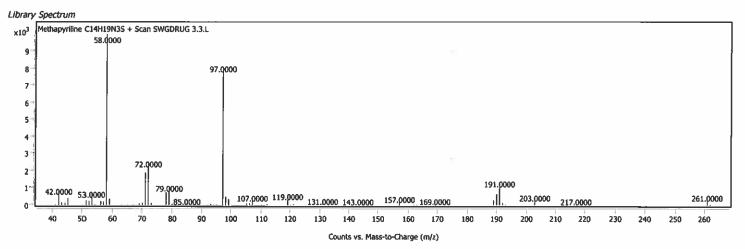
<u>.m..nl</u>



Counts vs. Mass-to-Charge (m/z)

157.1000





Injection Date:

9/29/2021

10:50:10 AM

Seq Line:

53 Vial 84

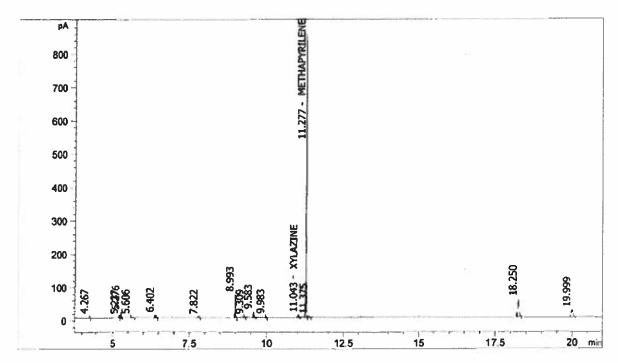
Sample Name: Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 2 W/ISTD 0.010->

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOI.
11.043	11.046	8.733	7.203		XYLAZINE RRT - 0.9792
11.277	11.278	968.931	852.123		METHAPYRI LENE



Sample Information

Sample Name

Instrument

Position

Operator

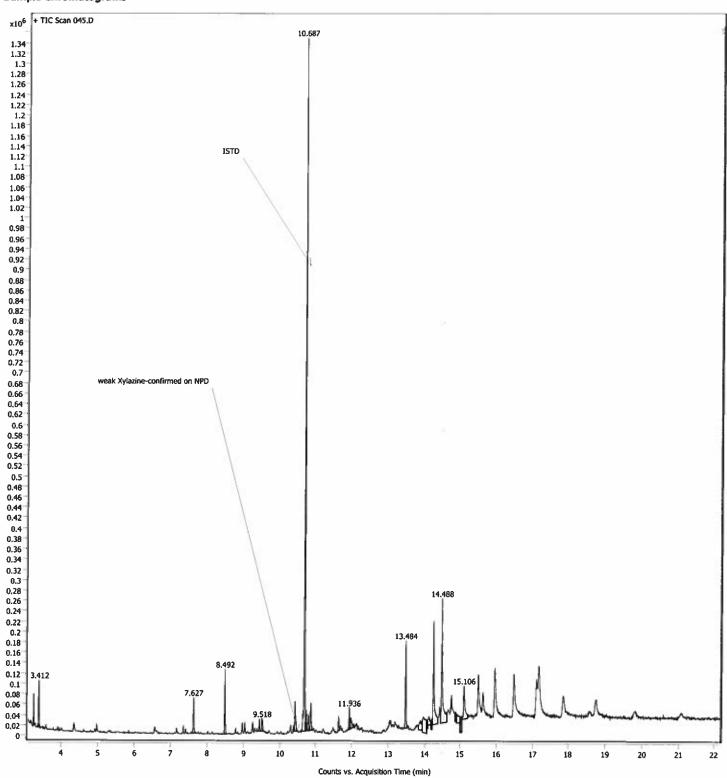
KM/QC DATA IN XYLAZINE VALIDATION

MATRIX 1 W/ISTD 0.010 mg/L -BLD #3 - Enhanced Acq. Time (Local) Method Path (Acq)

Data File Path

C:\MassHunter\GCMS\1\data\BASES\092821\045.D

9/29/2021 11:12:22 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

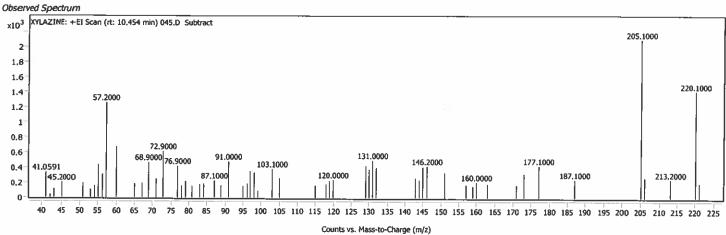


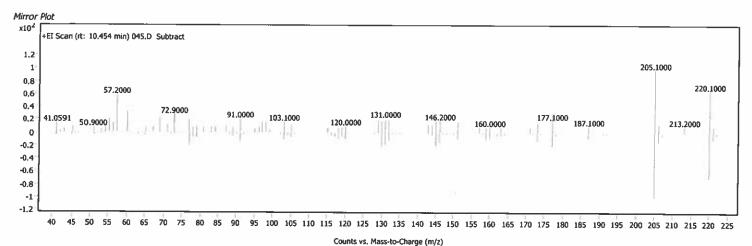


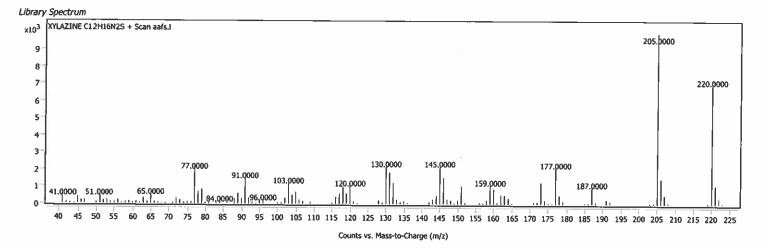
+ Scan (rt: 10.454 min) Sub

XYLAZINE: C12H16N2S







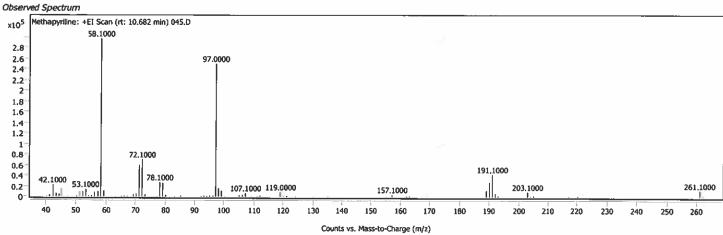


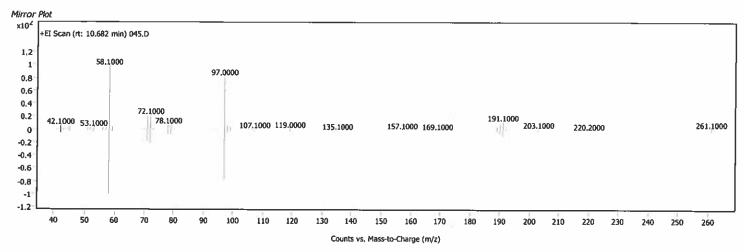


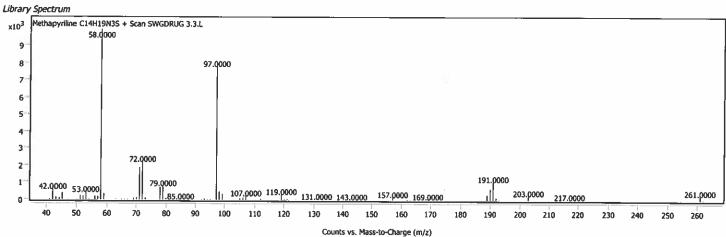


Methapyriline; C14H19N3S









Injection Date: Sample Name:

9/29/2021 MATRIX 1 W/ISTD 0.010->

10:25:52 AM

Seq Line:

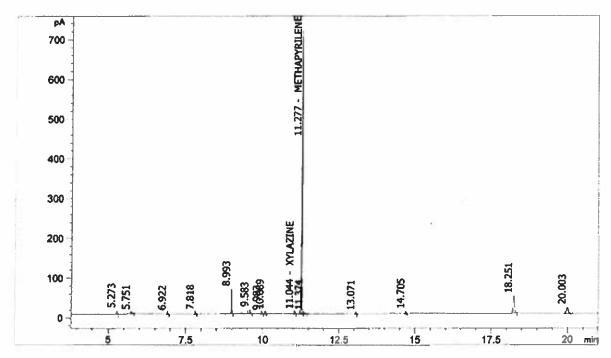
52 Vial 83

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	223	TRAMADOL
11.044	11.046 11.278	6.392 802.430	5.359 712.589		XYLAZINE RRT - 0.9793 METHAPYRILENE

Injection Date: Sample Name:

9/29/2021

11:14:27 AM

Seq Line:

54

Vial 85

Sample Info:

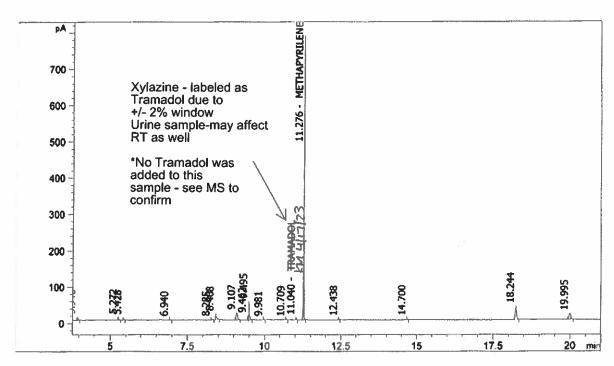
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 6 W/ISTD 0.010->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.040	11.033	7.259	6.226	0.000000	TRAMADOL
0.000	11.046	0.000	0.000		XYLAZINE RRT-0.9791
11.276	11.278	890.075	779.668		METHAPYRILENE



Sample Information

Sample Name Instrument

Position

Operator

MATRIX 6 W/ISTD 0.010 mg/L-URN

79

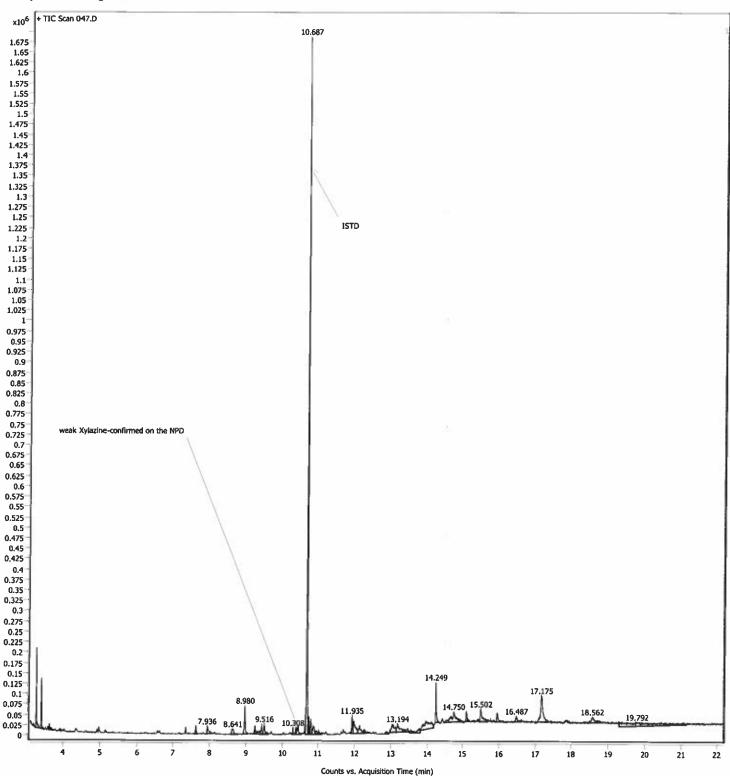
Acq. Time (Local)

Data File Path

Method Path (Acq) KM/QC DATA IN XYLAZINE VALIDATION

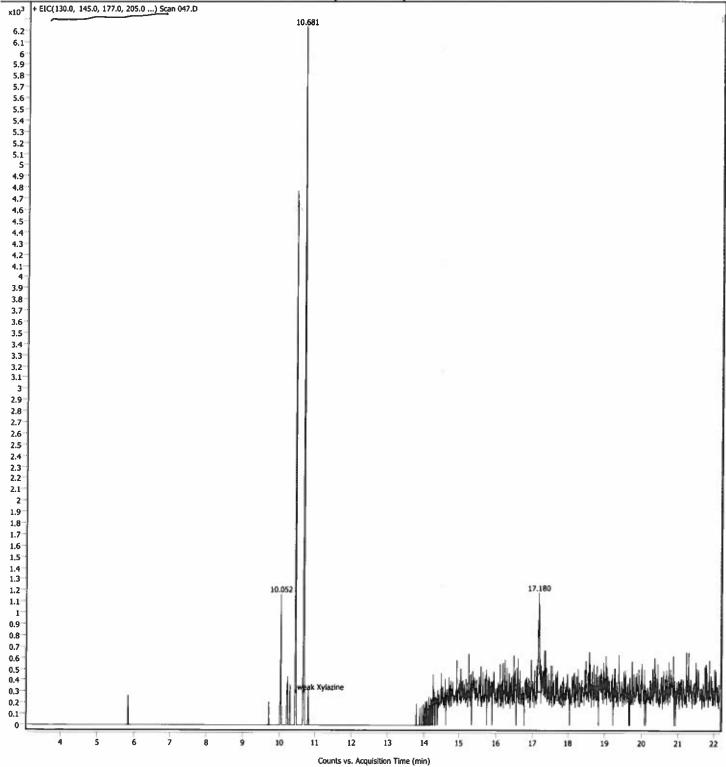
C:\MassHunter\GCMS\1\data\BASES\092821\047.D

9/29/2021 12:03:59 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M



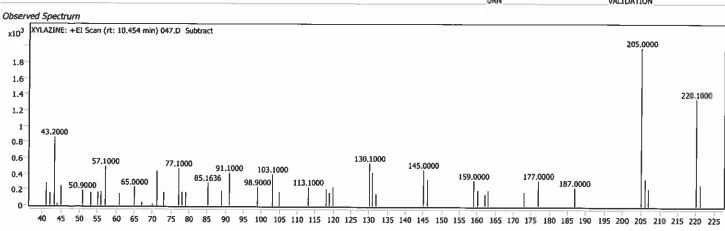




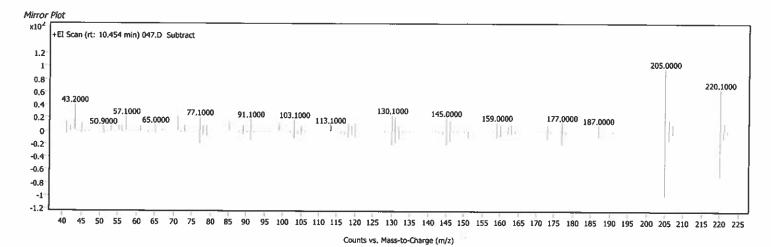


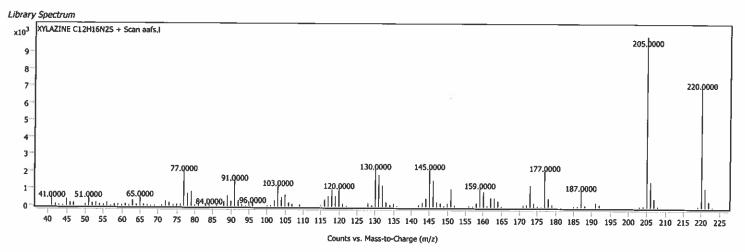




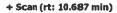


Counts vs. Mass-to-Charge (m/z)

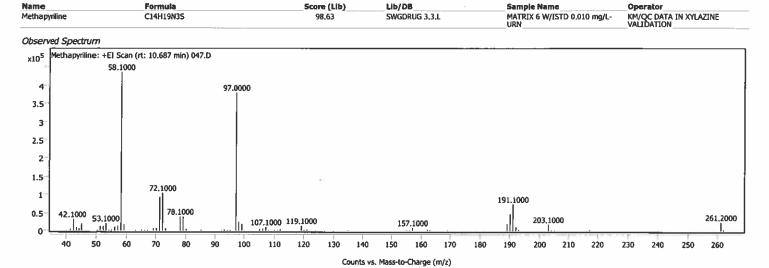


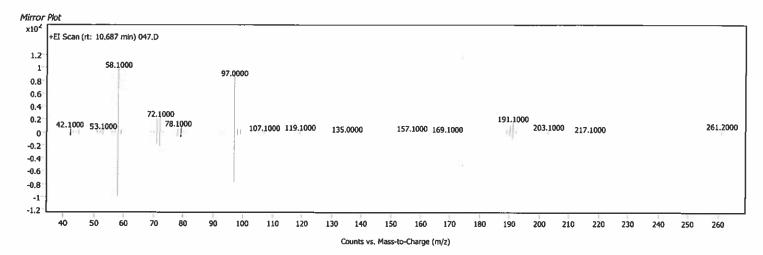


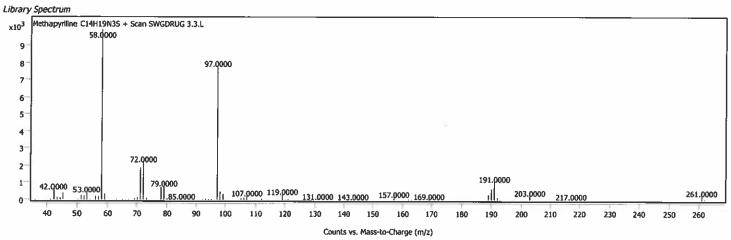




Methapyriline; C14H19N3S









Sample Information

Sample Name Instrument

Position

Operator

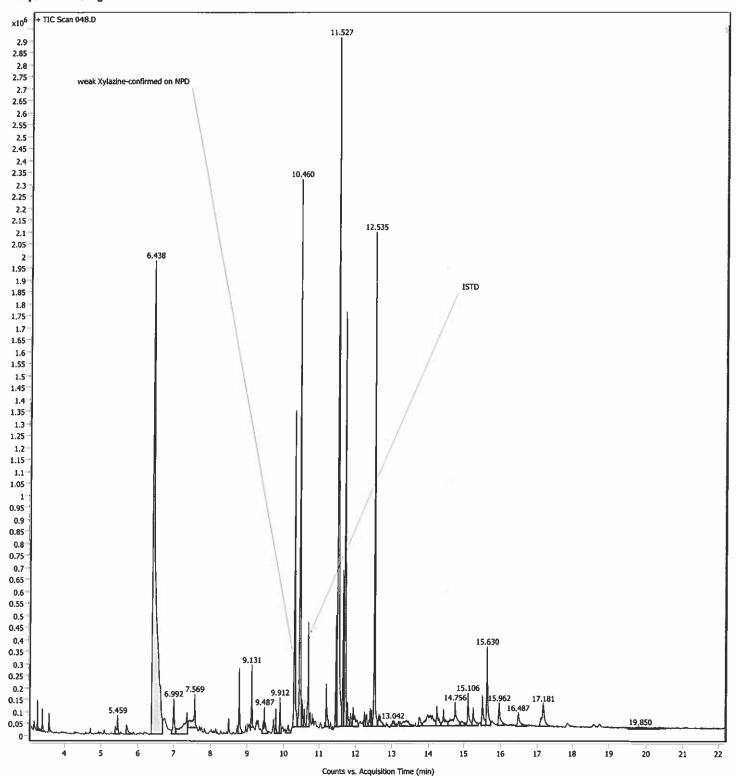
MATRIX 10 W/ISTD 0.010 mg/L-LVR

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path

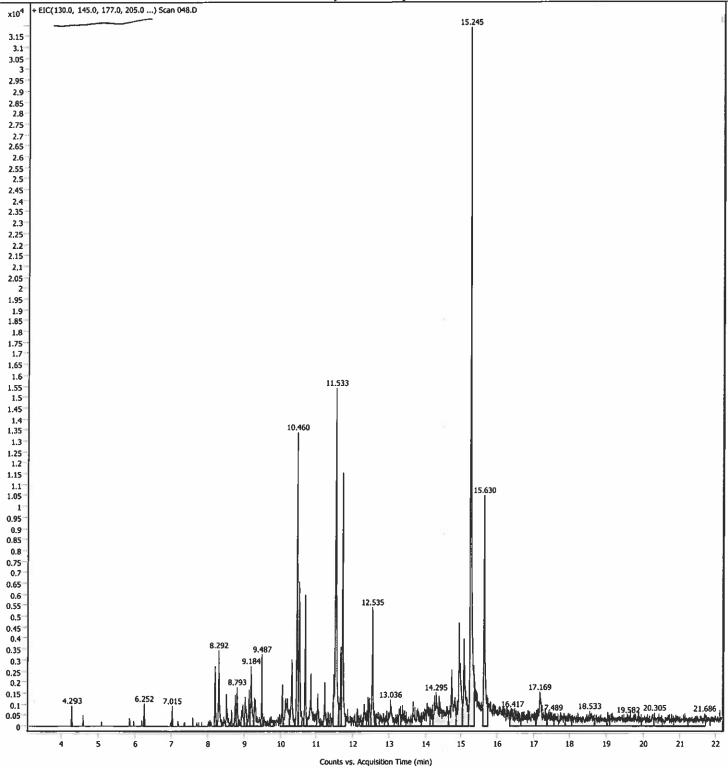
Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\048.D

9/29/2021 12:29:54 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M





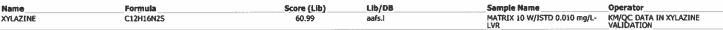


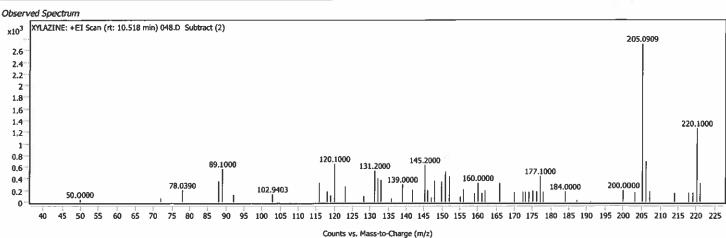


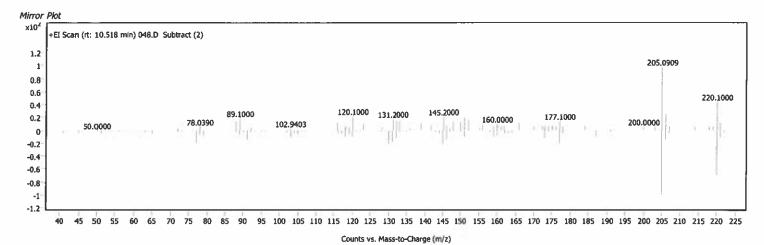
+ Scan (rt: 10.687 min)

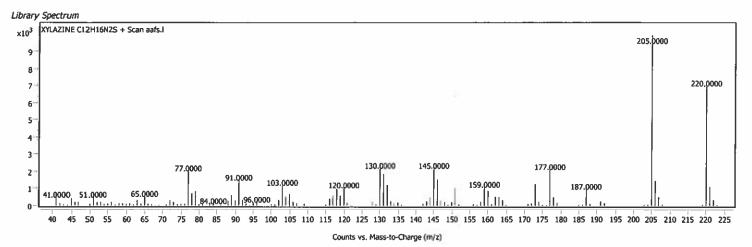
+ Scan (rt: 10.518 min) Sub (2)

XYLAZINE; C12H16N2S





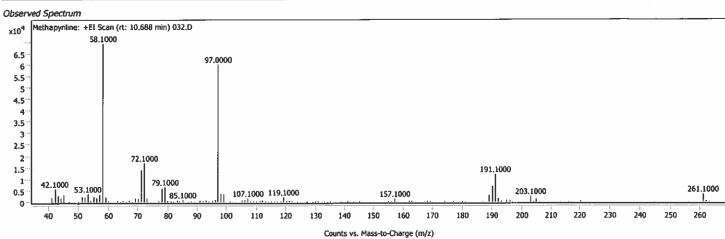


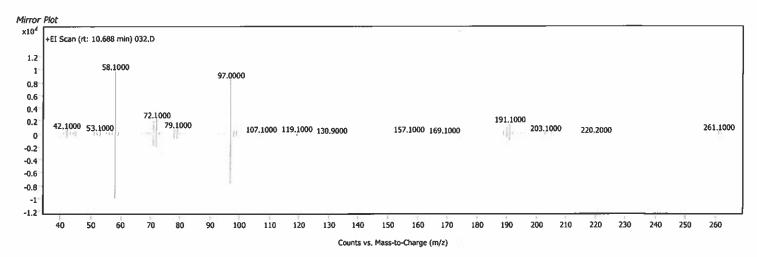


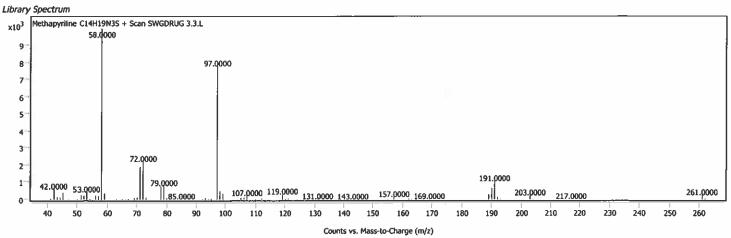












. 一种一种工作,不可以不可以不可以不可以的,但是是一种,但是一种一种,但是一种一种,但是是一种一种,可以是一种一种,可以是一种一种,可以是一种一种,可以是一种

Injection Date: Sample Name: 9/29/2021

11:38:50 AM

Seq Line:

55

Vial 86

Sample Info:

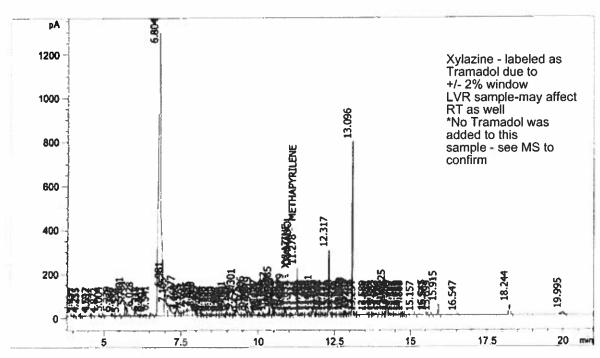
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 10 W/ISTD 0.01->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

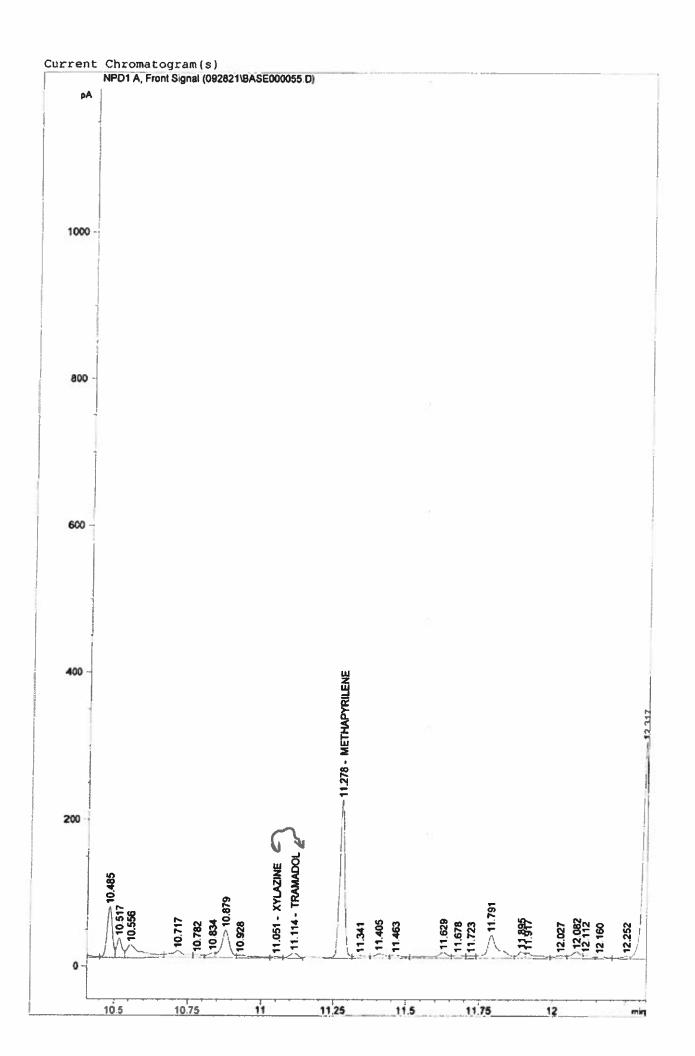
KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT Exp RT [min]	Area	Height	Amount mg/L	Compound
11.051 11.046	3.632	2.150	0.000000	XYLAZINE
11.114 11.033	13.583	6.802		TRAMADOL RRT - 0.9854
11.278 11.278	247.393	215.685		METHAPYRILENE

Not used in average of RRts







Sample Information

Sample Name Instrument

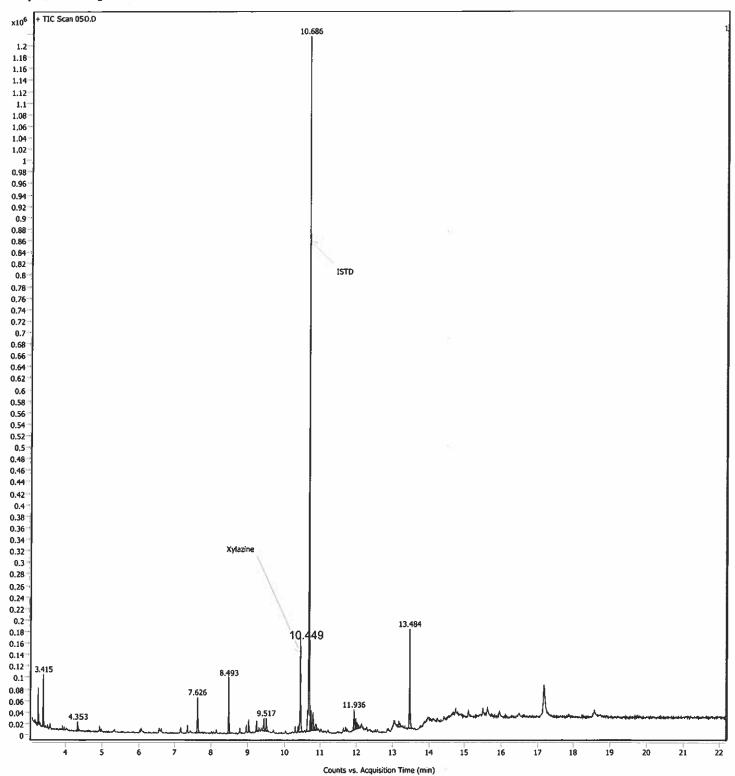
Position

MATRIX 2/W ISTD 0.10 mg/L- BLD Data File Path

Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\050.D 9/29/2021 1:21:46 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

KM/QC DATA IN XYLAZINE VALIDATION Operator





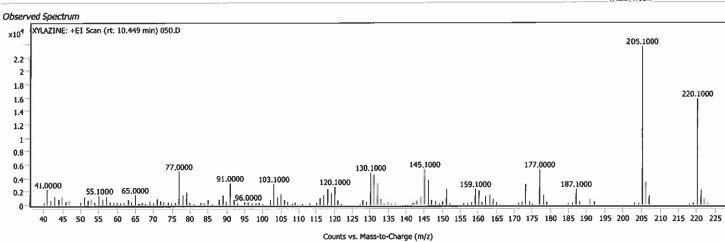
Tropice for jumps

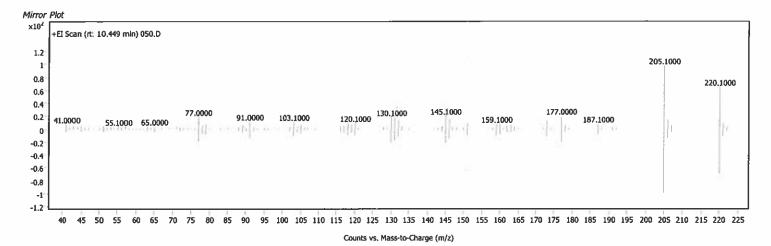
Sample Spectra

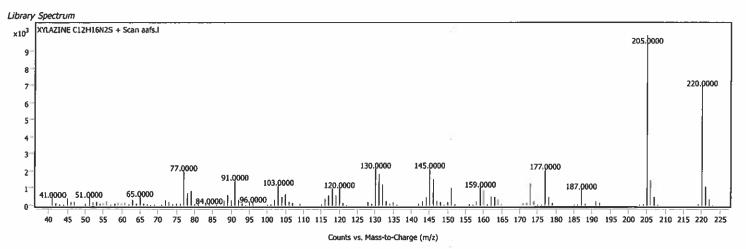


XYLAZINE; C12H16N2S





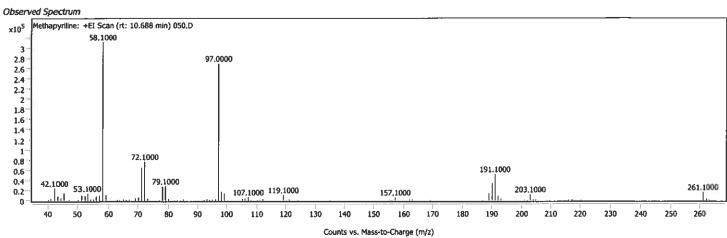


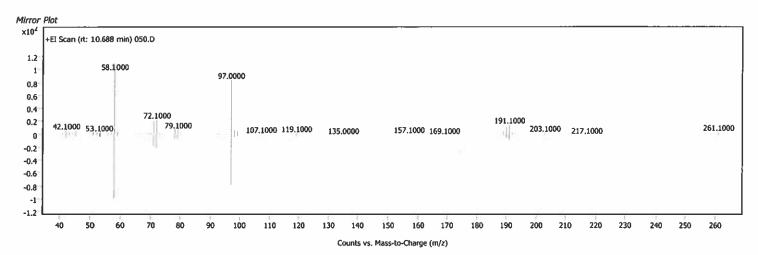


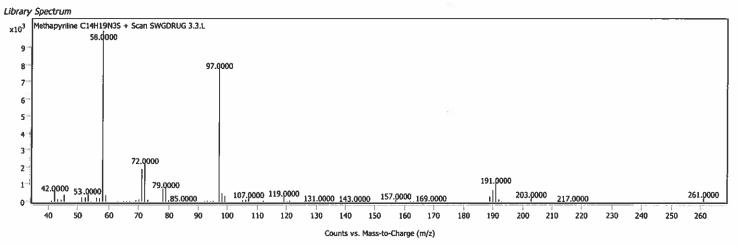




Methapyriline; C14H19N3S + Scan (rt: 10.688 min) Score (Llb) LIb/DB Sample Name Name Formula MATRIX 2/W ISTD 0.10 mg/L- BLD KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S SWGDRUG 3.3.L







Injection Date: 9/29/2021 Sample Name:

12:27:27 PM MATRIX 2 W/ISTD 0.10 ->

Seg Line:

57 Vial 88

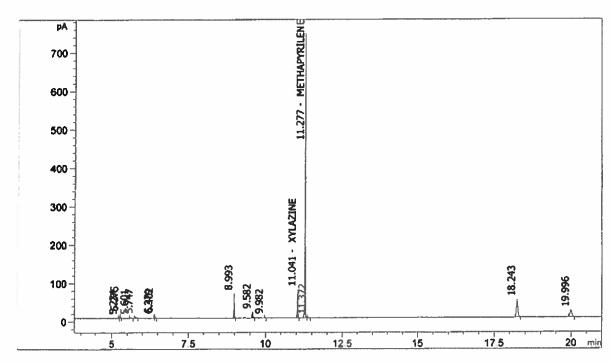
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.0 41	11.046	85.655	74.466		XYLAZINE RRT - 0.9791
11.277	11.278	859.985	734.628		METHAPYRILENE

.........



Sample Information

Sample Name Instrument

Position

Operator

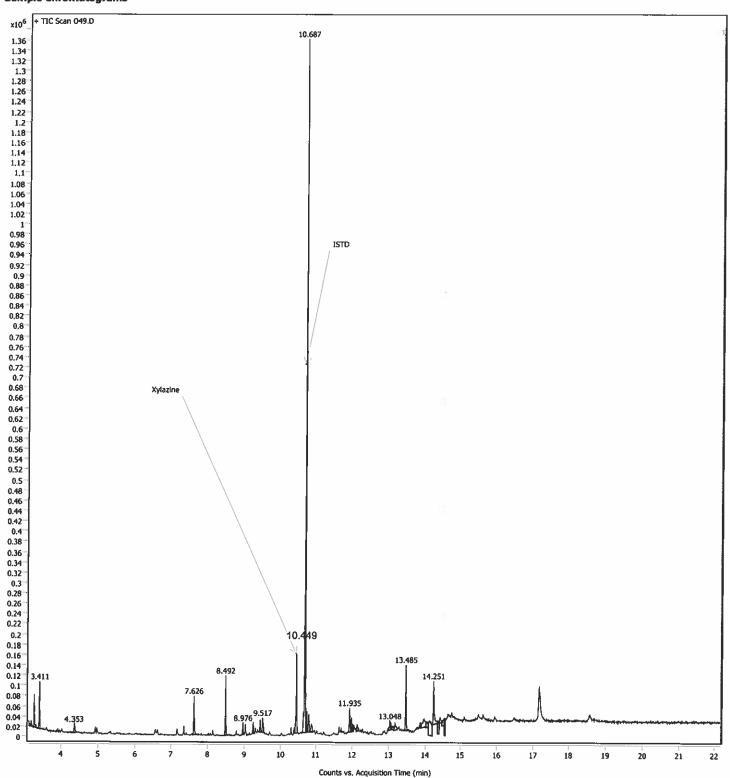
MATRIX 1 W/ISTD 0.10 mg/L - BLD

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\049.D

9/29/2021 12:55:43 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

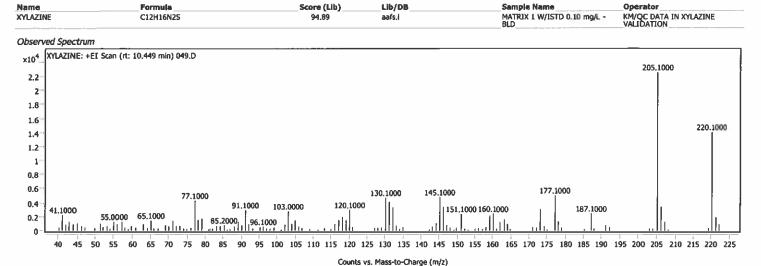


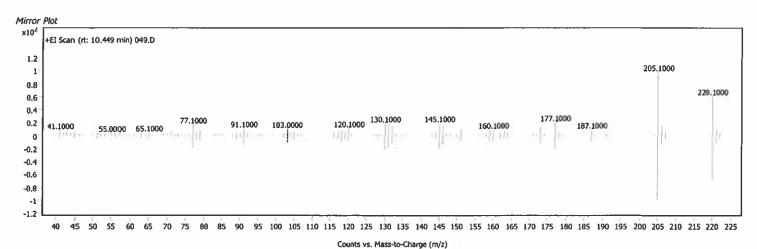


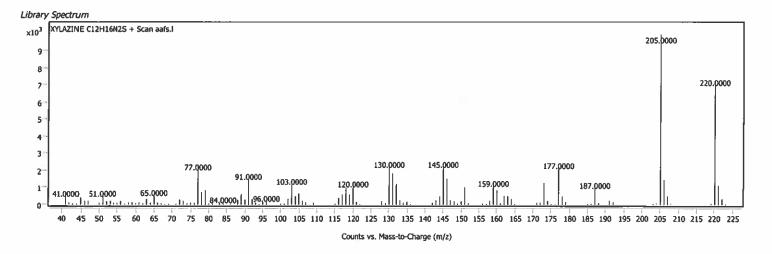
Sample Spectra



XYLAZINE; C12H16N2S









Methapyriline; C14H19N3S + Scan (rt: 10.688 min) Formula Score (Lib) Lib/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION Methapynline C14H19N3S 98.53 SWGDRUG 3.3.L MATRIX 1 W/ISTD 0.10 mg/L -BLD Observed Spectrum Methapyriline: +EI Scan (rt: 10.688 min) 049,D x10⁵. 3,5 3.25 97,0000 3 2.75 2.5 2.25 2 1.75 1.5 1.25 72,1000 0.75 191.1000 0.5 42.1000 53.1000 79.1000 261.2000 0.25 203.1000 107,1000 119,1000 157,1000 0 40 50 60 70 90 110 130 150 170 210 220 230 240 250 260 80 100 120 140 160 180 190 200 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 10.688 min) 049.D 1.2 58.1000 97,0000 8,0 0.6 0,4 72.1000 0.2 191,1000 42.1000 53.1000 79,1000 203,1000 217,1000 261.2000 107,1000 119,1000 131,0000 145,0000 157,1000 169,1000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 40 50 60 70 80 100 110 120 130 140 150 170 180 190 200 210 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000 8 97.0000 7 6 5 4 3 72.0000 2 191.0000 42.0000 53.0000 1 107,0000 119,0000 261.0000 157.0000 169.0000

190

200

210

220

230

240

250

260

180

100

110

120

140

150

Counts vs. Mass-to-Charge (m/z)

160

40

50

60

70

80

90

Injection Date:

9/29/2021

12:03:08 PM

Seq Line:

56

Sample Name:

MATRIX 1 W/ISTD 0.10 ->

Vial 87

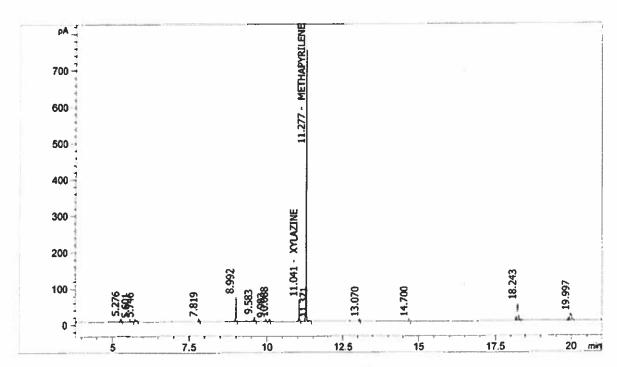
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT			Amount	
[min]	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.041	11.046	69.536	59.638	0.000000	XYLAZINERRT - 0.9791
11.277	11.278	883.290	777.130	1.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

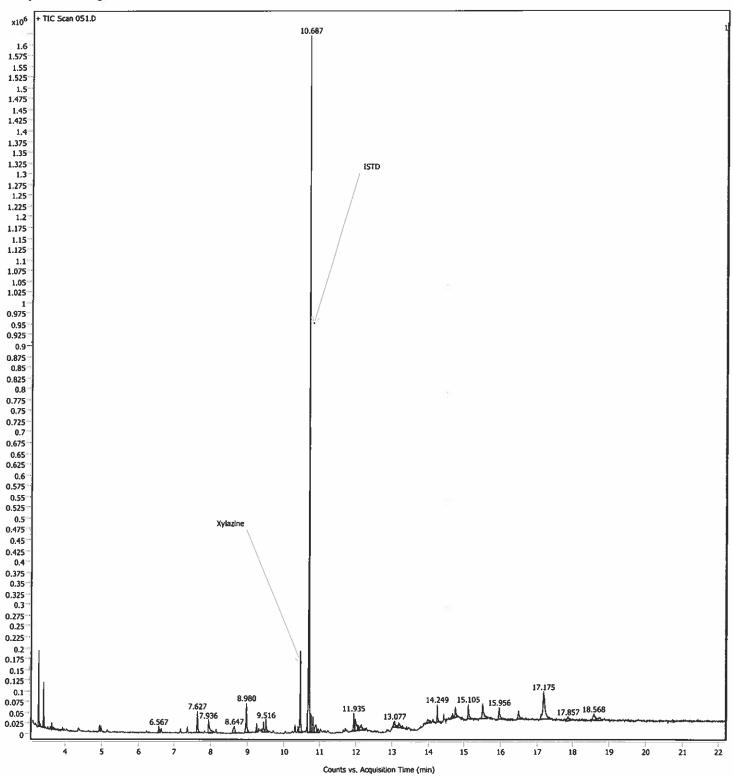
MATRIX 6 W/ISTD 0.10 mg/L- URN Data File Path

#3 - Enhanced

Acq. Time (Local) Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\1\data\BASES\092821\051.D 9/29/2021 1:47:38 PM (UTC-04:00) C:\MassHunter\GCM\$\1\methods\ALKALI.M

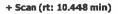




Sample Spectra

0.2

0



57,0000 65,0000

<u> մասկարակեր ուհ</u>

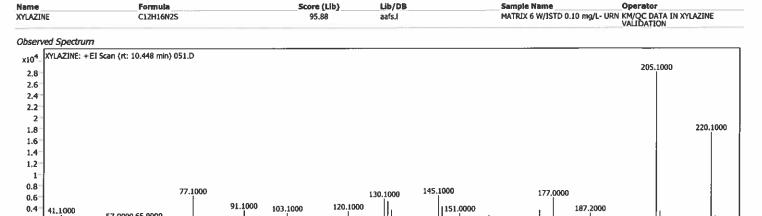
60 65 70

75

XYLAZINE; C12H16N2S

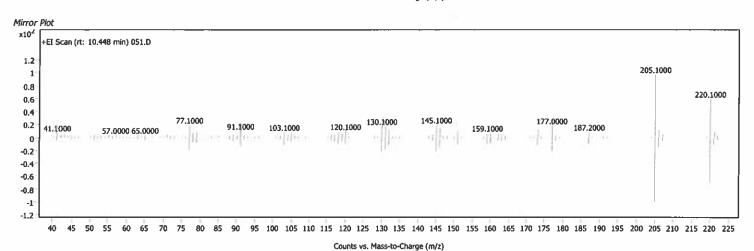
85,1000

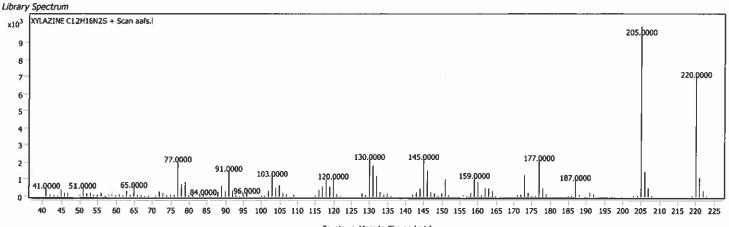
85



Counts vs. Mass-to-Charge (m/z)

95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225





Counts vs. Mass-to-Charge (m/z)



+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Lib/DB Name Formula Score (Llb) Sample Name Operator Methapyriline MATRIX 6 W/ISTD 0.10 mg/L- URN KM/QC DATA IN XYLAZINE VALIDATION C14H19N3S 98.47 SWGDRUG 3.3.L Observed Spectrum x10⁵ Methapyriline: +EI Scan (rt: 10.687 min) 051.0 58.1000 3.75 97.0000 3.5 3.25 2.75 2.5 2.25 2 1.75 1.5 1.25 72,1000 0.75 191.1000 0.5 0.25 42.1000 53.1000 79.1000 261,1000 107,1000 119,1000 203,1000 157,1000 40 50 70 230 110 120 130 140 150 160 170 180 190 200 210 220 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 10.687 min) 051.D 1.2 58.1000 97,0000 8,0 0.6 0.4 72.1000 191,1000 0.2 42.1000 53.1000 79,1000 261,1000 107,1000 119,1000 157.1000 169,1000 203.1000 217,0000 135.1000 0 -0.2 -0.4-0.6 -0.8 -1 -1.2 40 60 70 90 50 80 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 260 250 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000 9 8 97.0000 7 6 5 4 3 72,0000 2 191.0000 1 79,0000 53.0000 107,0000 119,0000 261.0000 157.0000 169.0000 40 60 70 50 80 90 100 110 130 140 120 150 160 180 190 200 210 220 230 240 250 260

Counts vs. Mass-to-Charge (m/z)

Injection Date: Sample Name:

9/29/2021

12:51:51 PM

Seq Line:

58 Vial 89

MATRIX 6 W/ISTD 0.10 ->

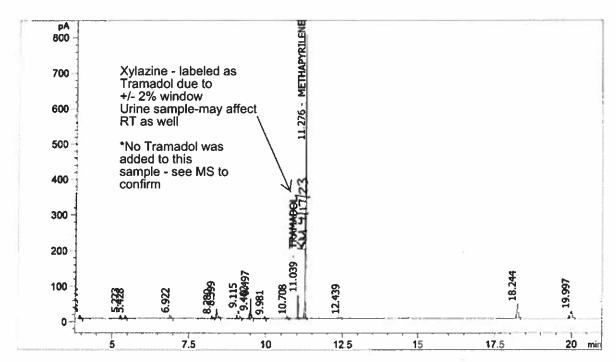
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.039	11.033	74.280	66.514	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE RRT - 0.9790
11.276	11.278	916.292	791.683	1.000000	METHAPYRILENE



Sample Information

Instrument

Position Operator

Sample Name

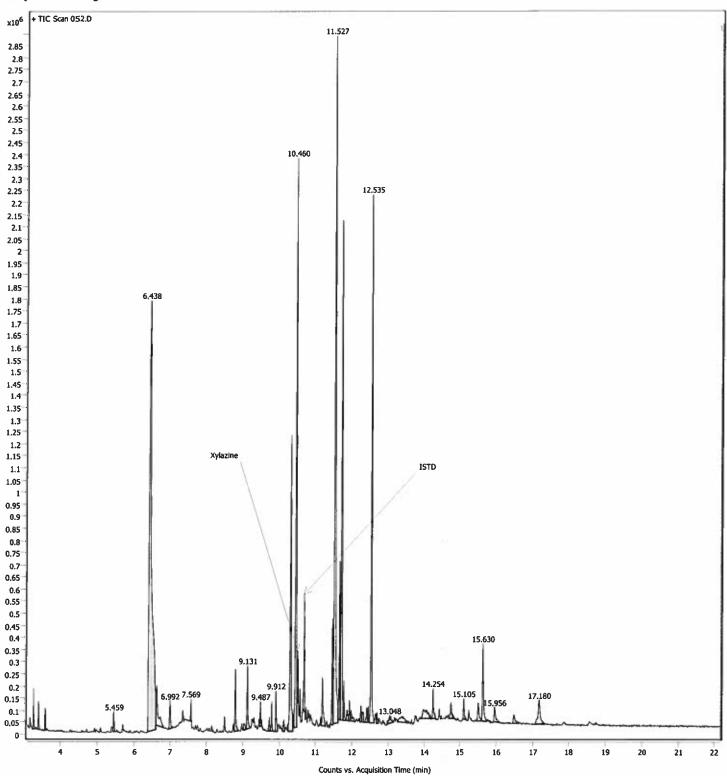
KM/QC DATA IN XYLAZINE VALIDATION

MATRIX 10 W/ISTD 0.10 mg/L-LVR

Data File Path

Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\052.D

9/29/2021 2:13:27 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



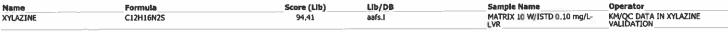


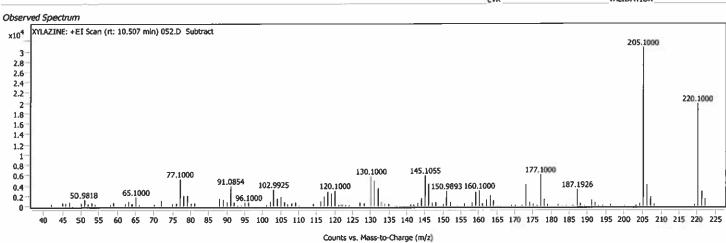
Insert Aracut

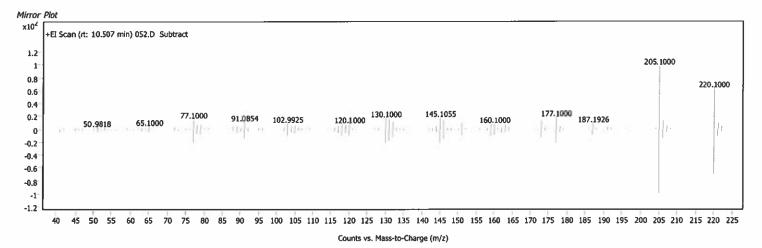
Sample Spectra

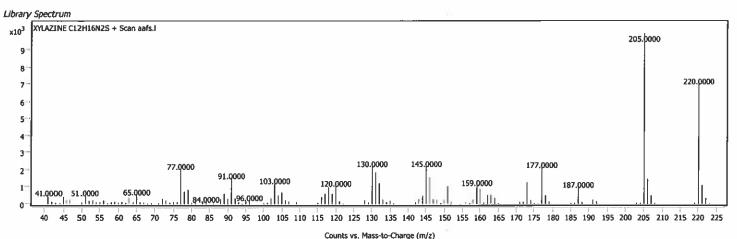


XYLAZINE; C12H16N2S



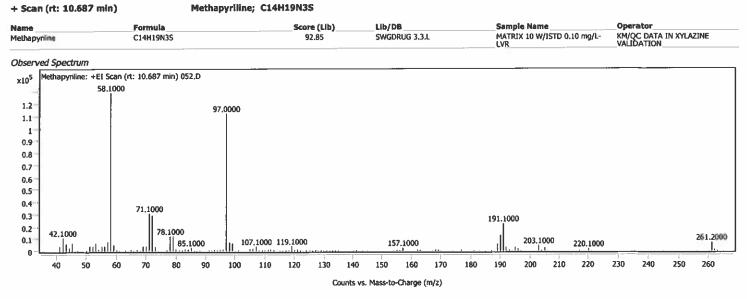


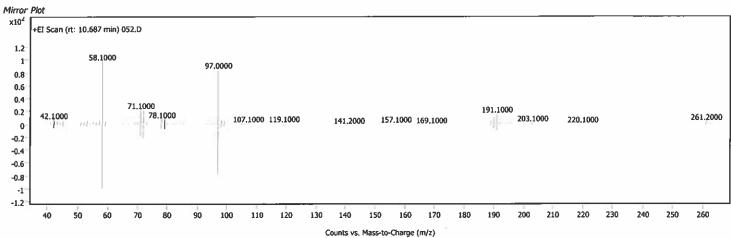


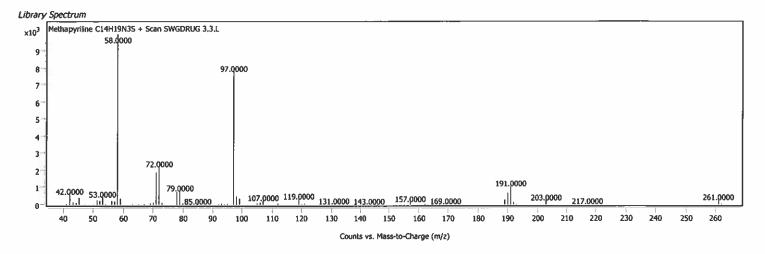












Injection Date: Sample Name:

9/29/2021 MATRIX 10 W/ISTD 0.10->

1:16:08 PM

Seq Line:

59 Vial 90

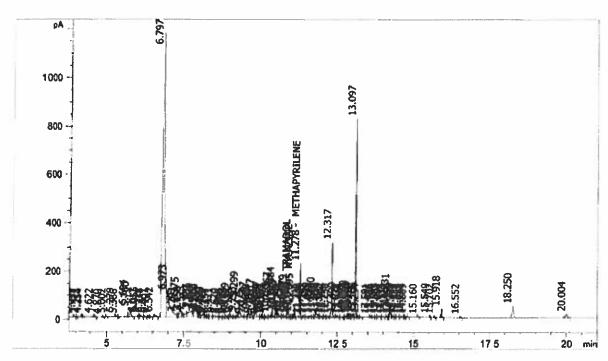
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

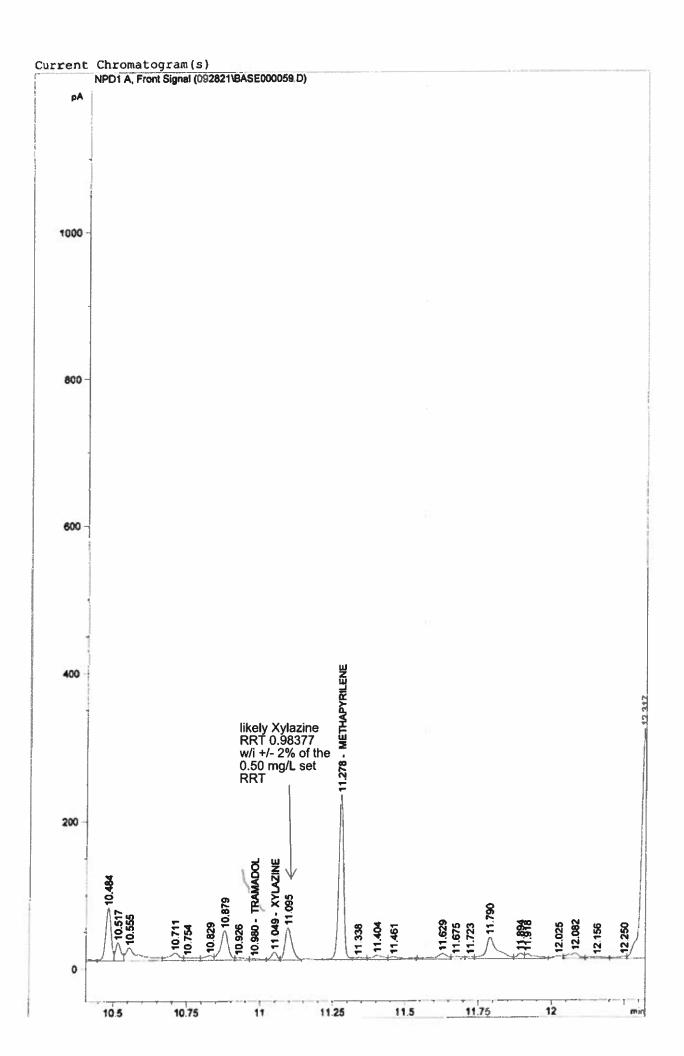
KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
10.980 11.049 11.278	11.033 11.046 11.278	5.877 15.449 267.175	2.259 11.191 223.779	0.000000	TRAMADOL XYLAZINE see following page METHAPYRILENE

Not used in average of RRTs



Sample Information

Sample Name Instrument

Position

Operator

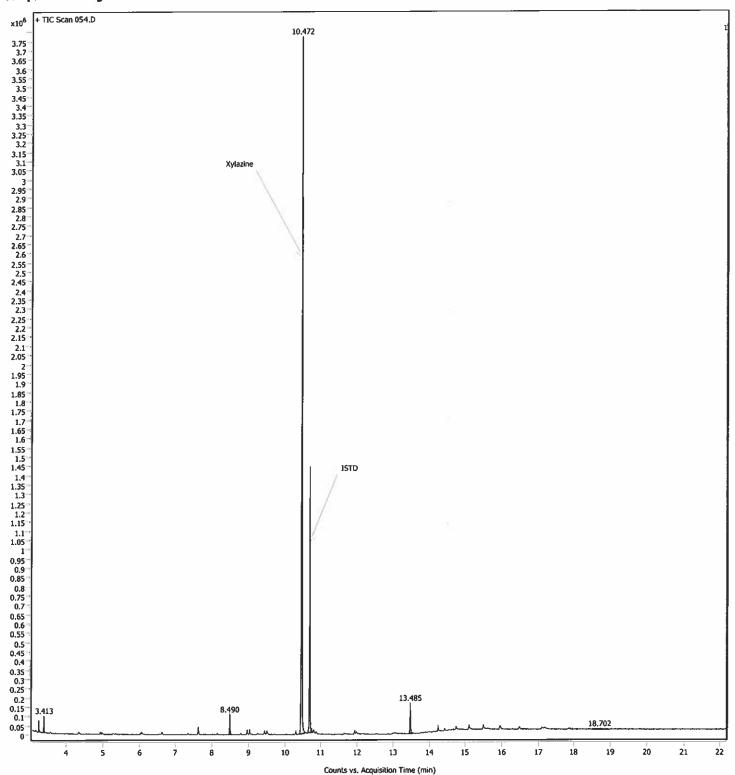
MATRIX 2/W ISTD 2.0 mg/L- BLD Data File Path

#3 - Enhanced Acq. Time (Local) Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\1\data\BASES\092821\054.D

9/29/2021 3:05:10 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M



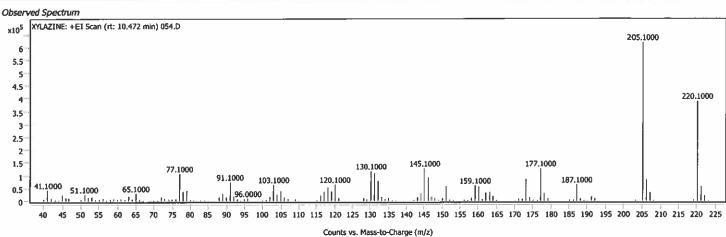


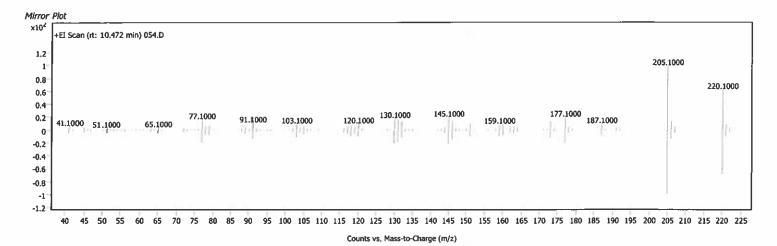
Sample Spectra

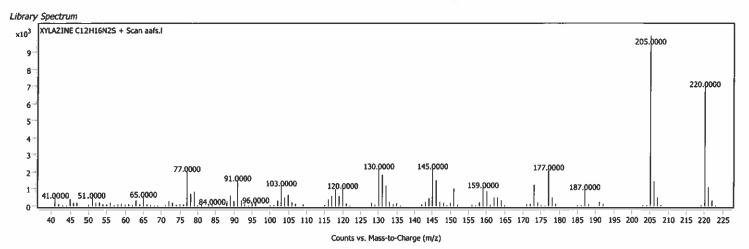


XYLAZINE; C12H16N2S









LIb/DB

Methapyriline; C14H19N3S

Score (Llb)

+ Scan (rt: 10.687 min)

Name

-1.2

40

50

60

70

80

90

100

110

120

130

140

150

Counts vs. Mass-to-Charge (m/z)

160

170

180

190

200

210

220

230

240

250

260

Formula





KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S 98.61 SWGDRUG 3.3.L MATRIX 2/W ISTD 2.0 mg/L- BLD Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 054.D x10⁵ 58.1000 3.75 3.5 97,0000 3.25 2.75 2.25 1.75 1.5 1.25 72.1000 0.75 191.1000 79,1000 0.5 42.1000 53.1000 261,2000 203,1000 107.1000 119.1000 0.25 157.1000 <u>.ul..ul</u> 170 200 210 220 230 240 250 260 60 90 100 120 130 140 150 160 180 190 50 70 80 110 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 10.687 min) 054.D 1.2 58.1000 - 1 97.0000 0.8 0.6 0.4 72.1000 0.2 191,1000 79,1000 42.1000 53.1000 203.1000 217.1000 261,2000 107.1000 119.1000 157.1000 169,1000 135.1000 -0.2 -0.4 -0.6 -0.8 -1

Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000 97.0000 6 5 3 72,0000 2 191.0000 1 79,0000 42.0000 53.0000 107,0000 119,0000 203,0000 261.0000 ,85.0000 131.0000 143.0000 157.0000 169.0000 217,0000 50 60 140 190 250 260 Counts vs. Mass-to-Charge (m/z)

Injection Date: Sample Name:

9/29/2021

2:05:03 PM MATRIX 2 W/ISTD 2.0 m->

Seq Line:

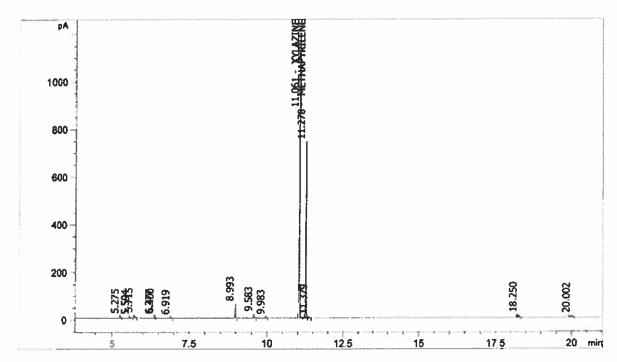
61 Vial 92

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT Exp R [min] [min		Height	Amount mg/L	Compound
0.000 11.033 11.061 11.046 11.278 11.278	1756.485	0.000 1180.927 742.535	0.000000	TRAMADOL XYLAZINE RRT-0.9808 METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 1 W/ISTD 2.0 mg/L - BLD Data File Path

#3 - Enhanc

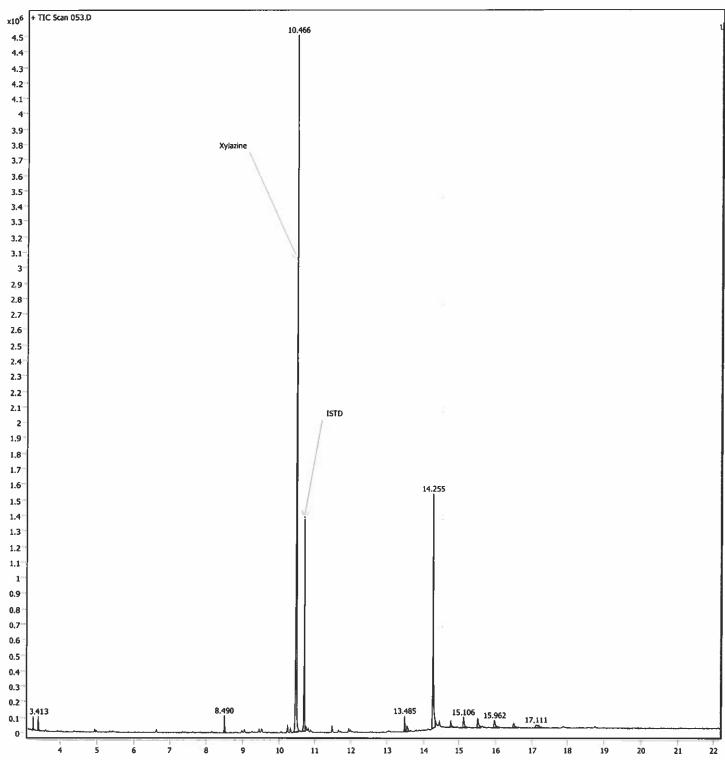
Acq. Time (Local)

Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\I\data\BASES\092821\053.D 9/29/2021 2:39:17 PM (UTC-04:00) C:\MassHunter\GCMS\I\methods\ALKALI.M

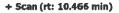
Sample Chromatograms



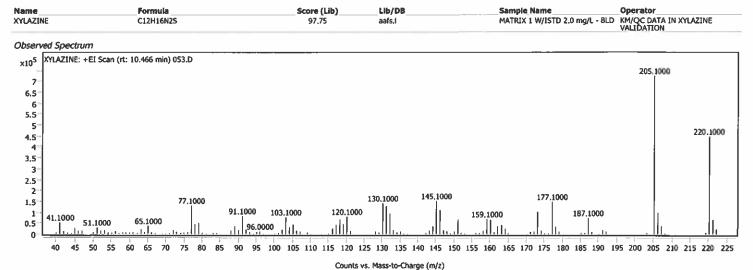
Counts vs. Acquisition Time (min)

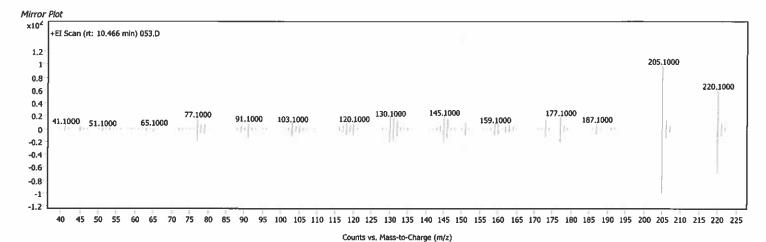


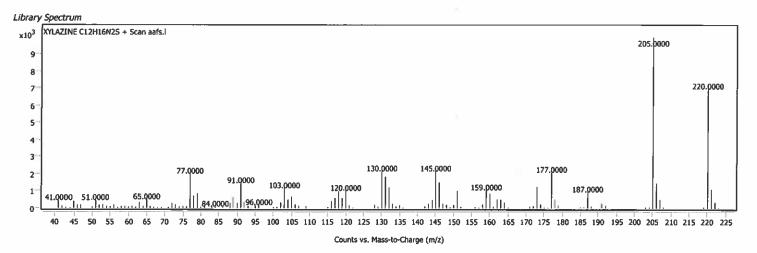
Sample Spectra



XYLAZINE; C12H16N2S









+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Score (Lib) LIb/DB Sample Name Name Formula Operator C14H19N3S MATRIX 1 W/ISTD 2.0 mg/L - BLD KM/QC DATA IN XYLAZINE VALIDATION SWGDRUG 3.3.L Methapyriline 98,44 Observed Spectrum Methapyriline: +EI Scan (rt: 10.687 min) 053.D x10⁵ 58.1000 3.25 97.0000 3 2.75 2.5 2.25 2 1.75 1.5 1.25 72.1000 0,75 191,1000 0.5 42.1000 53.1000 79,1000 0.25 203,1000 261,1000 107,1000 119,1000 157.1000 <u>.ul..ul</u> 0 40 50 60 70 130 180 210 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 10.687 min) 053.D 1,2 58.1,000 1 97.0000 8.0 0.6 0.4 72.1000 191.1000 0.2 79,1000 42,1000 53,1000 203.1000 217.1000 261,1000 107.1000 119.1000 157,1000 169,1000 0 -0.2 -0.4 -0.6 -0.8 -1 40 50 60 70 80 90 100 110 120 130 170 200 140 150 160 180 190 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.dooo 9 8 97.0000 7 6 5 4 3 72.0000 2 191.0000 1 79,0000 53.0000 107.0000 119.0000

131.0000 143.0000 157.0000 169.0000

150

Counts vs. Mass-to-Charge (m/z)

170

180

160

.85.0000

90

100

110

120

130

140

80

40

50

60

70

261.0000

260

203.0000

200

190

217.0000

220

210

230

240

250

Injection Date: Sample Name:

9/29/2021

1:40:30 PM

Seq Line:

60 Vial 91

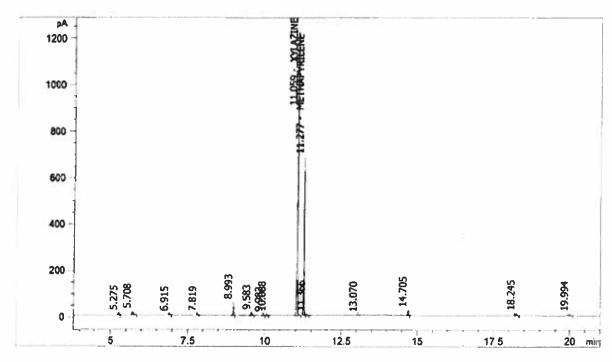
Sample Info:

MATRIX 1 W/ISTD 2.0 m->

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT (min)	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.059	11.046	1795.546	1218.081	0.000000	XYLAZINE RRT - 0.9807
11.277	11.278	790.096	683.578	1.000000	METHAPYRILENE



Sample Information

Sample Name

MATRIX 6 W/ISTD 2.0 mg/L- URN Data File Path

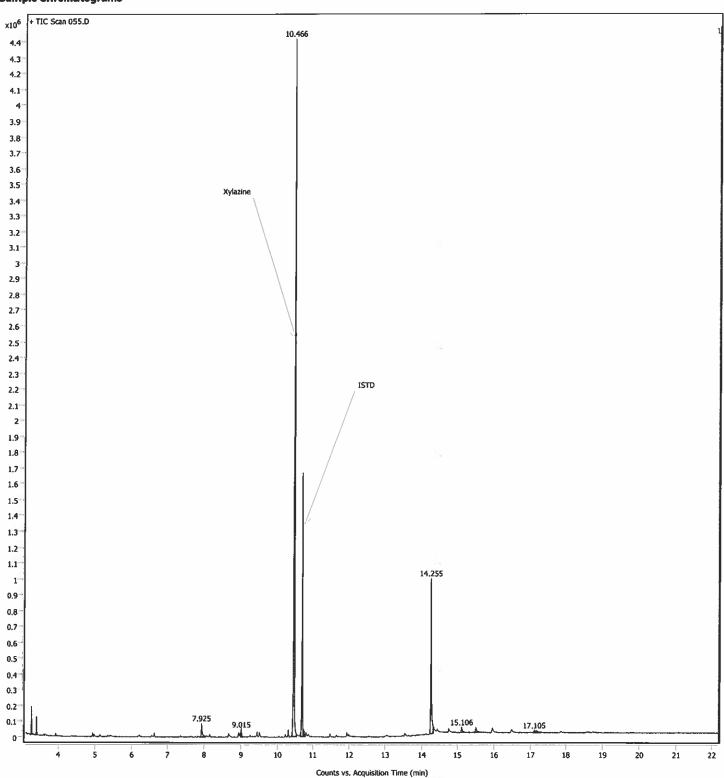
Acq. Time (Local) Method Path (Acq)

9/29/2021 3:30:58 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

C:\MassHunter\GCMS\1\data\BASES\092821\055.D

Instrument **Position** Operator

KM/QC DATA IN XYLAZINE VALIDATION



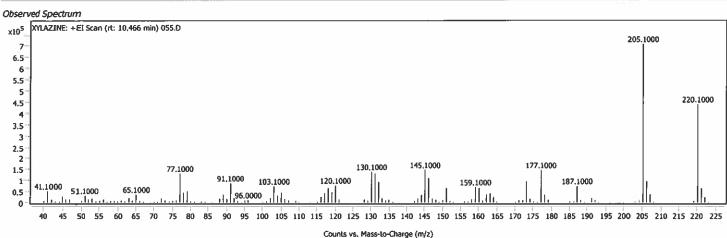


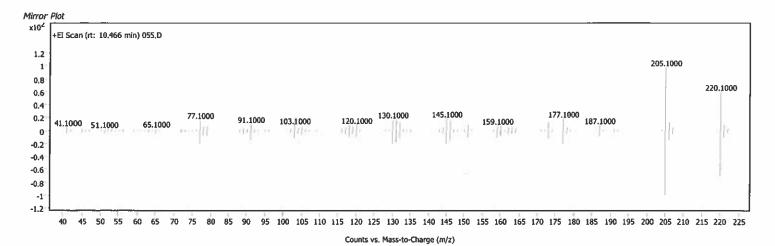
Sample Spectra

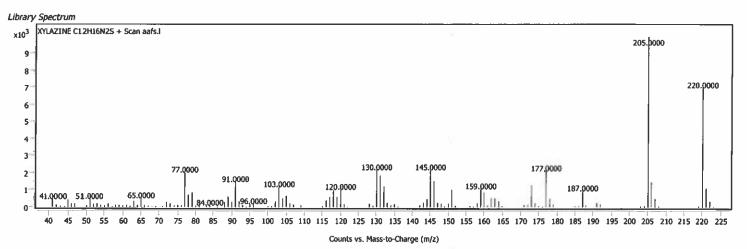


XYLAZINE: C12H16N2S

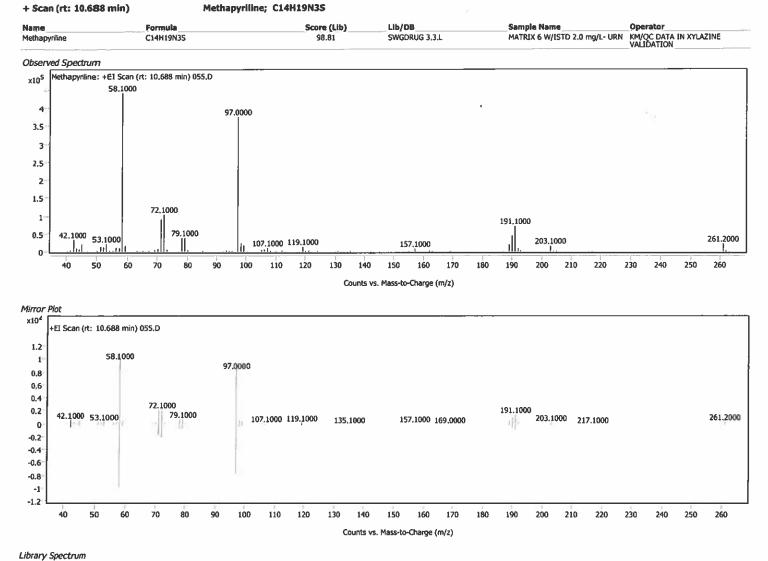


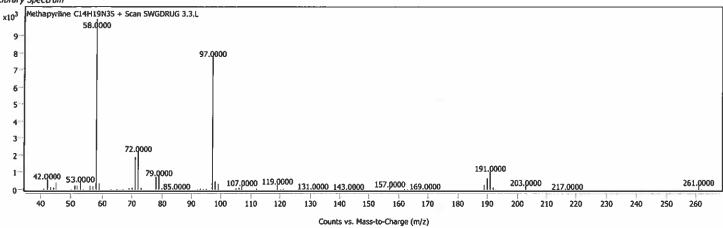












Injection Date: Sample Name:

9/29/2021

2:29:22 PM

Seq Line:

62 Vial 93

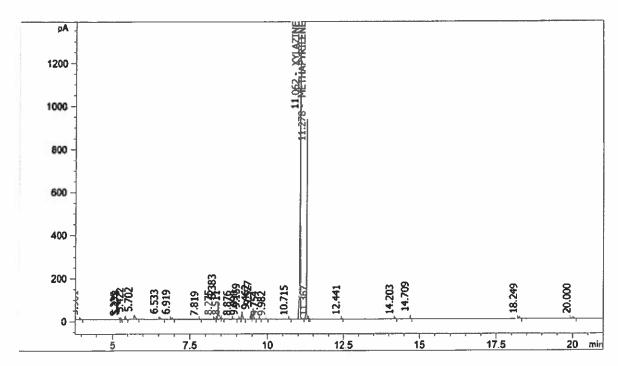
Sample Info:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 6 W/ISTD 2.0 m->

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT				
[min]	(min)	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.062	11.046	2051.870	1314.079	0.000000	XYLAZINERRT - 0.9808
11.278	11.278	1103.267	929.718	1.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 10 W/ISTD 2.0 mg/L+ LVR Data File Path

#3 - Enhance

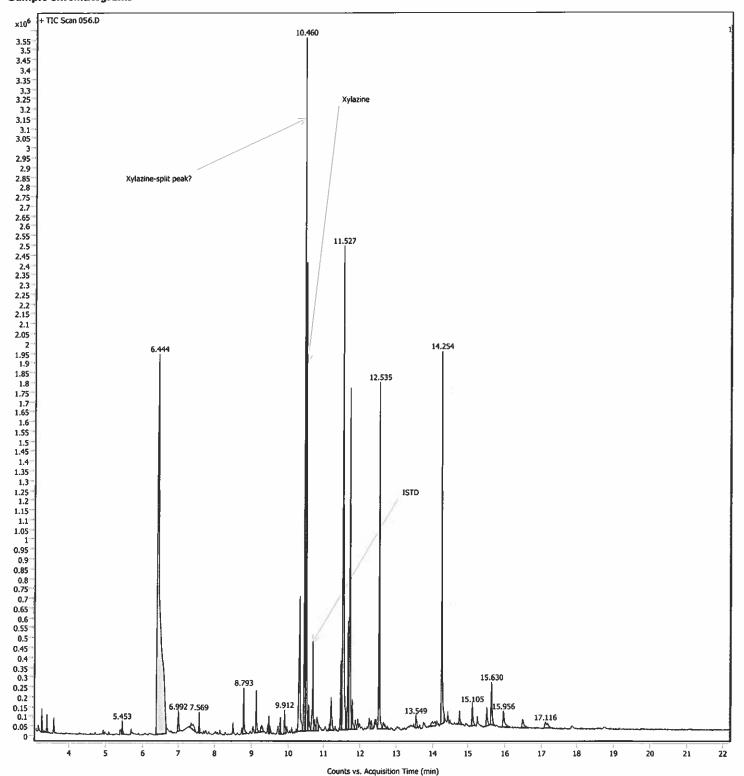
Acq. Time (Local)

KM/QC DATA IN XYLAZINE VALIDATION

Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\056.D

9/29/2021 3:56:47 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



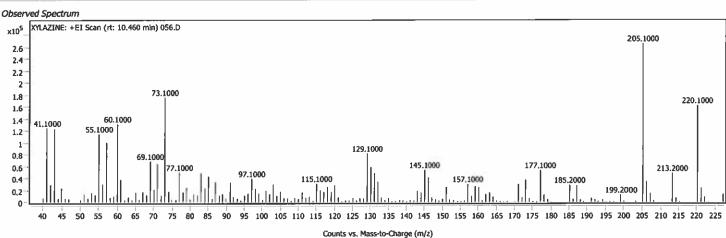


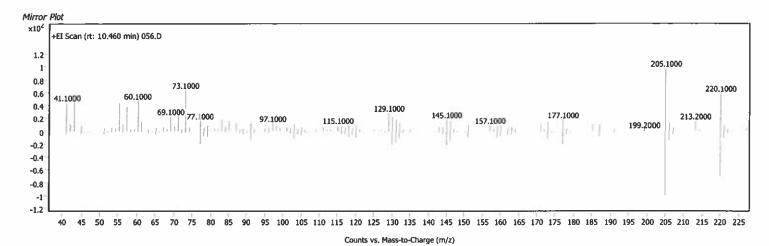
Sample Spectra

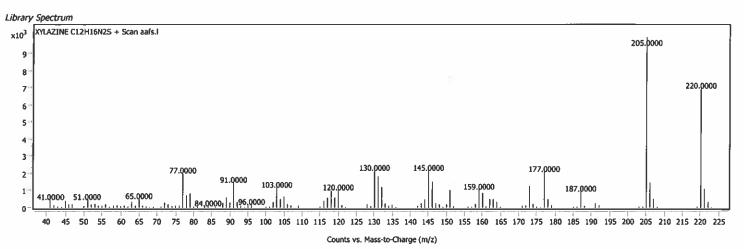
+ Scan (rt: 10.460 min)

XYLAZINE; C12H16N2S



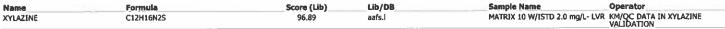


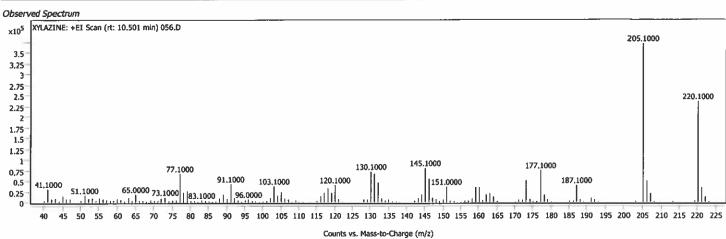


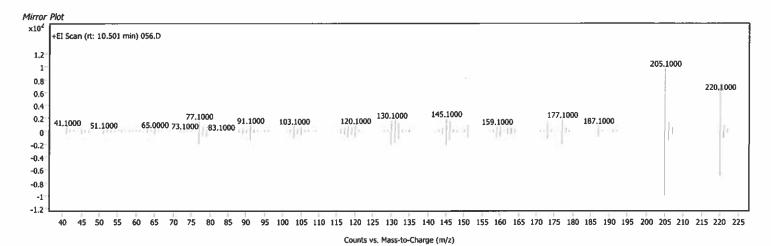


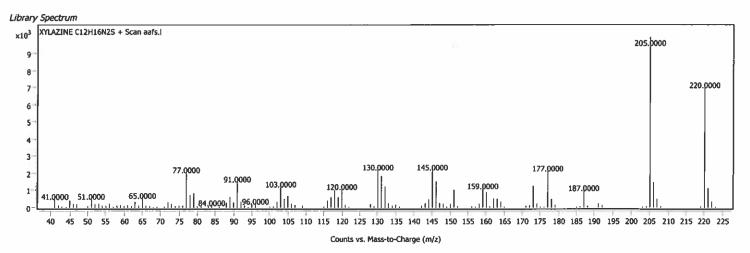
Agilent have to

+ Scan (rt: 10.501 min) XYLAZINE; C12H16N2S









Methapyriline; C14H19N3S

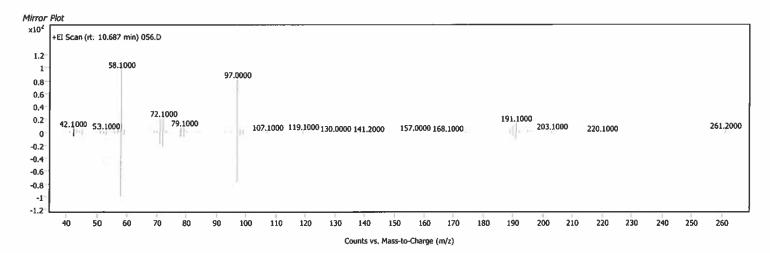
+ Scan (rt: 10.687 min)

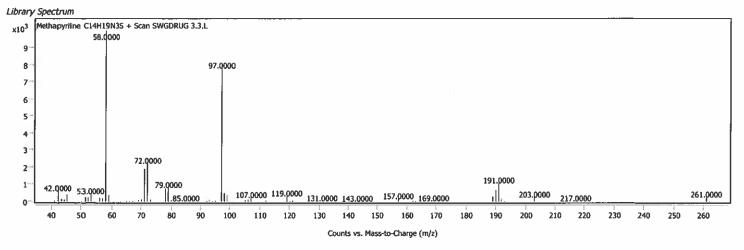


Agilent

Score (Llb) Lib/DB Sample Name Formula Name MATRIX 10 W/ISTD 2.0 mg/L- LVR KM/QC DATA IN XYLAZINE VALIDATION C14H19N3S 93.38 SWGDRUG 3.3.L Methapyriline Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 056,D x10⁵ 58.1000 1.1 1 97,0000 0.9 0.8 0.7 0.6 0.5 0.4 0.3 72.1000 191.1000 0.2 79.1000 42.1000 53.1000 261,2000 0.1 203.1000 107.1000 119.1000 157,0000 85.1000 <u>, idaytl</u> 190 210 220 230 240 260 40 50 60 100 110 120 130 140 150 160 170 180 200 250

Counts vs. Mass-to-Charge (m/z)







Sample Information

Sample Name Instrument

Position

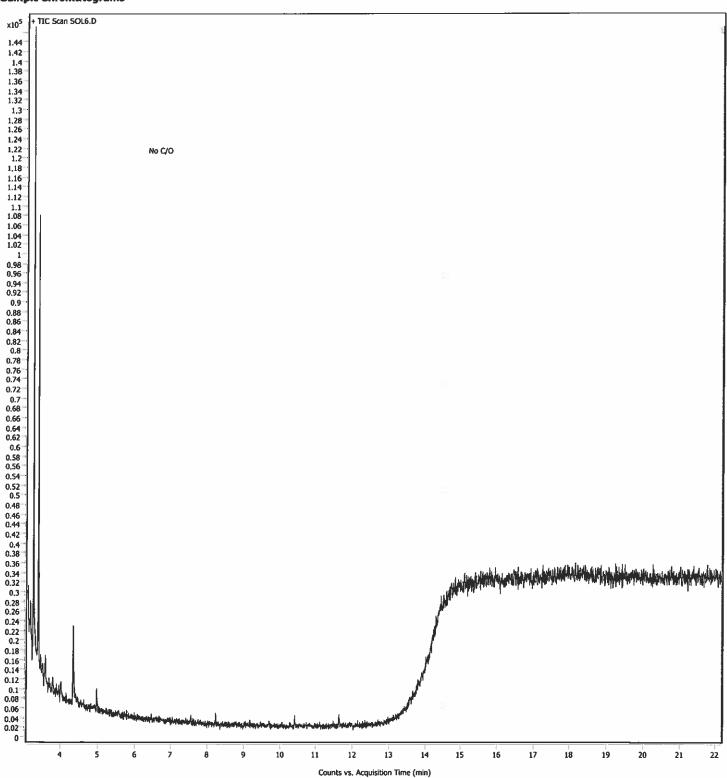
Operator

Solvent Blank 6

#3 - Enhanced 89

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL6.D 9/29/2021 4:22:39 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



Injection Date: 9/29/2021 Sample Name:

2:53:40 PM

Seg Line:

63

Vial 94

Sample Info:

Acq. Method:

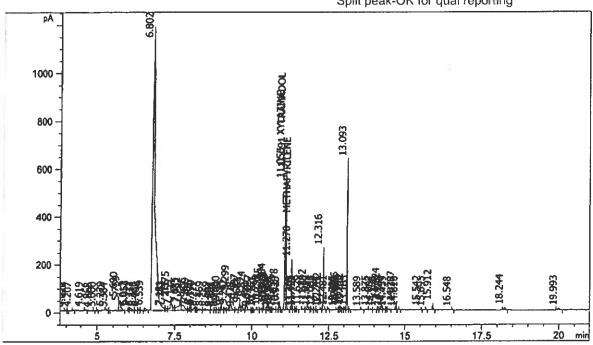
C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 10 W/ISTD 2.0 ->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION

Split peak-OK for qual reporting

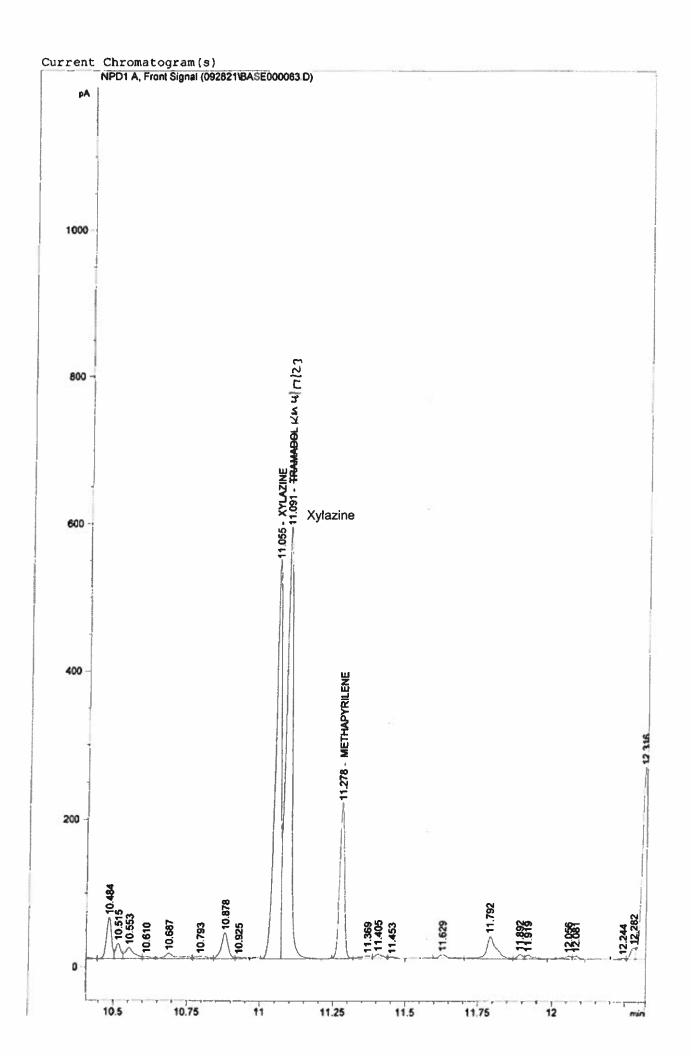


see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.091	11.046 11.033	724.084 857.036	538.254 583.173	0.000000	XYLAZINE TRAMADOL
11.278	11.278	242.928	210.837	1.000000	METHAPYRILENE

.

Not used to average RRTs



Injection Date: 9/29/2021 3:18:03 PM

Seq Line:

64 Vial 95

Sample Name:

Sample Info:

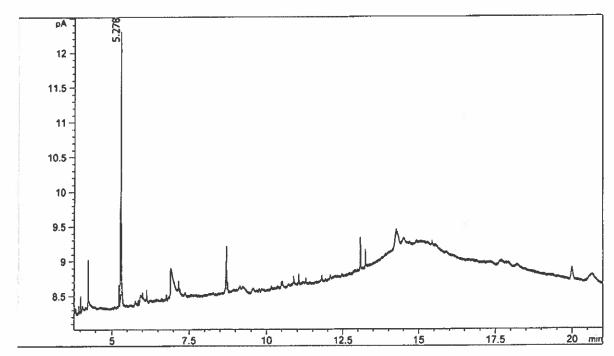
Acq. Method:

SOLVENT BLANK 6

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000		XYLAZINE
0.000	11.278	0.000	0.000		METHAPYRILENE

Sample Information

Sample Name **Instrument** Position

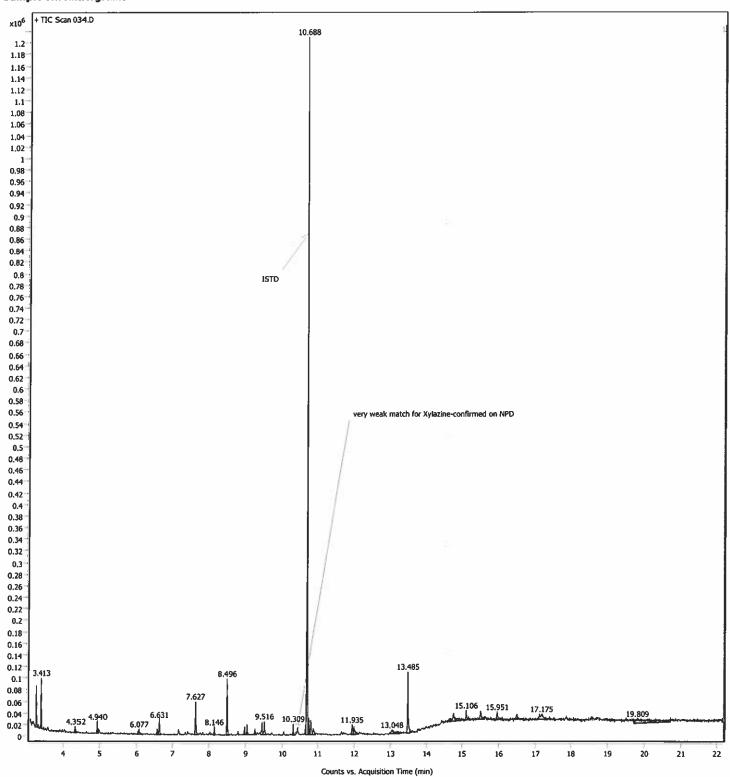
Operator

MATRIX 2 LOD - BLD

#3 - Enhanced

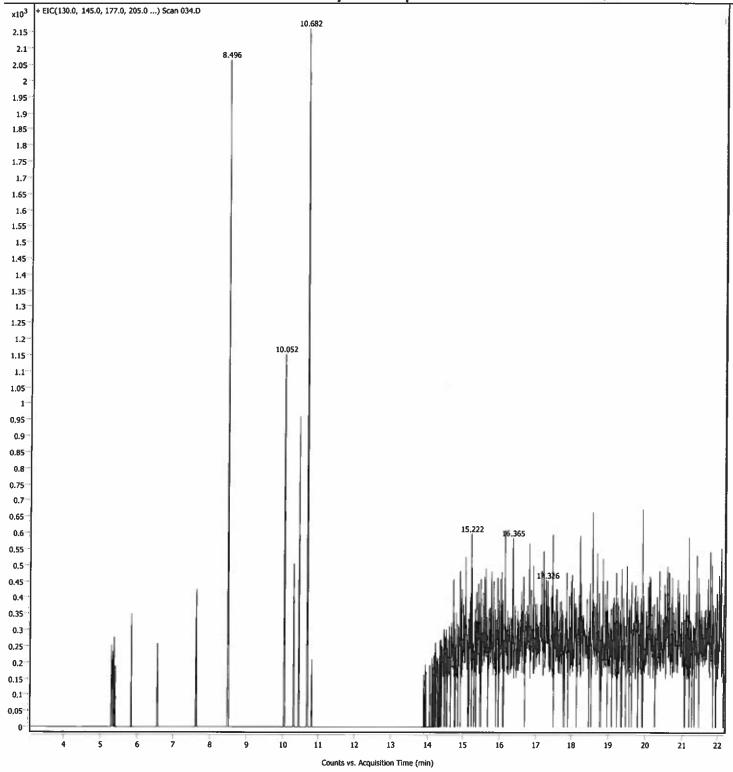
KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\034.D 9/29/2021 6:02:19 AM (UTC-04:00) ${\tt C:\MassHunter\GCMS\1\methods\ALKALI.M}$









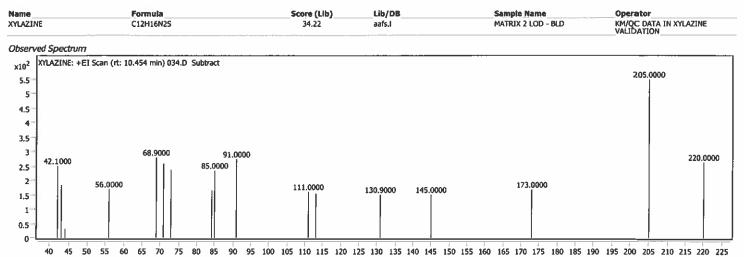


Sample Spectra

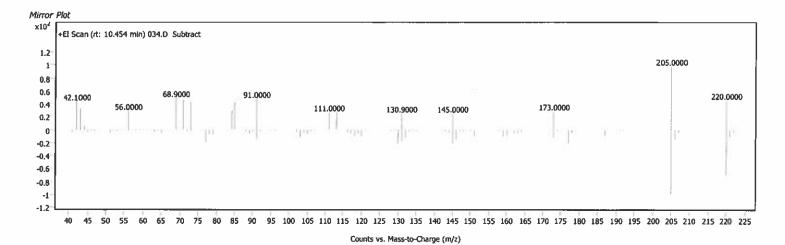
+ Scan (rt: 10.425 min)

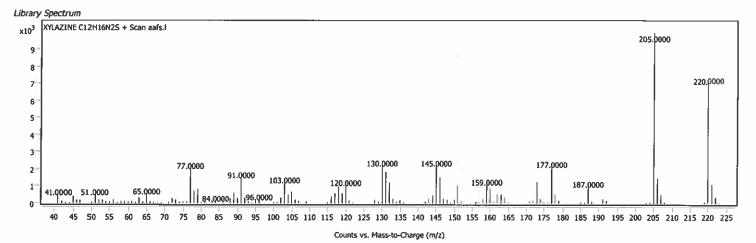
+ Scan (rt: 10.454 min) Sub

XYLAZINE; C12H16N2S



Counts vs. Mass-to-Charge (m/z)





Generated at 9:13 AM on 9/30/2021

Methapyriline; C14H19N3S

97.0000

72.0000

70

79,0000

80

.85.0000

90

100

110

120

+ Scan (rt: 10.688 min)

2

42.0000 53.0000

50

60

40



Formula Score (Lib) Lib/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION SWGDRUG 3.3.L Methapyriline C14H19N3S 98.54 MATRIX 2 LOD - BLD Observed Spectrum x10⁵ Methapyriline: +EI Scan (rt: 10,688 min) 034,D 58,1000 97,0000 2,8 2.6 2.4 2.2 2 1.8 1.6 1.4 1.2 1 0.8 72.1000 191.1000 0,6 42,1000 53,1000 0.4 78.1000 203.1000 261,1000 0.2 107.1000 119.0000 157.1000 <u>.nl..alı</u> 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 10.688 min) 034.D 1.2 58.1000 97.0000 8.0 0,6 0.4 72.1000 191.1000 0.2 42.1000 53.1000 78.1000 203.1000 217,1000 261.1000 107,1000 119,0000 135,0000 157,1000 169,1000 0 -0.2 -0.4 -0.6 -0.8 -1.2 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000

 $107,0000 \ \ ^{119,0000} \ \ _{131,0000 \ \ 143,0000} \ \ \ 157,0000 \ \ 169,0000$

140

150

Counts vs. Mass-to-Charge (m/z)

130

261.0000

260

191.0000

190

203.0000

200

217.0000

230

240

250

210

Injection Date: Sample Name: 9/29/2021

5:34:00 AM

Seq Line:

40 Vial 41

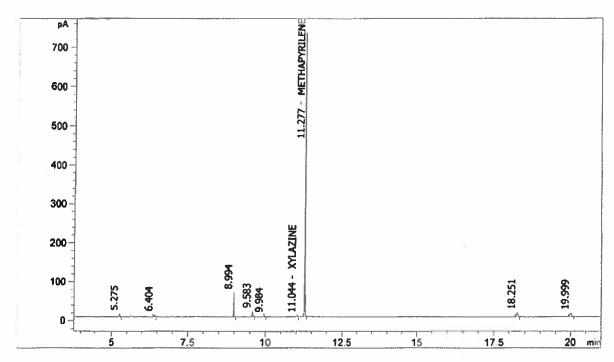
Sample Info:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHOD\$\092821KMVALI2.M

MATRIX 2 LOD - BLD

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.044	11.046	3.568	2.702		XYLAZINE RRT-0.9793
11.277	11.278	819.356	726.896		METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 1 LOD - BLD

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

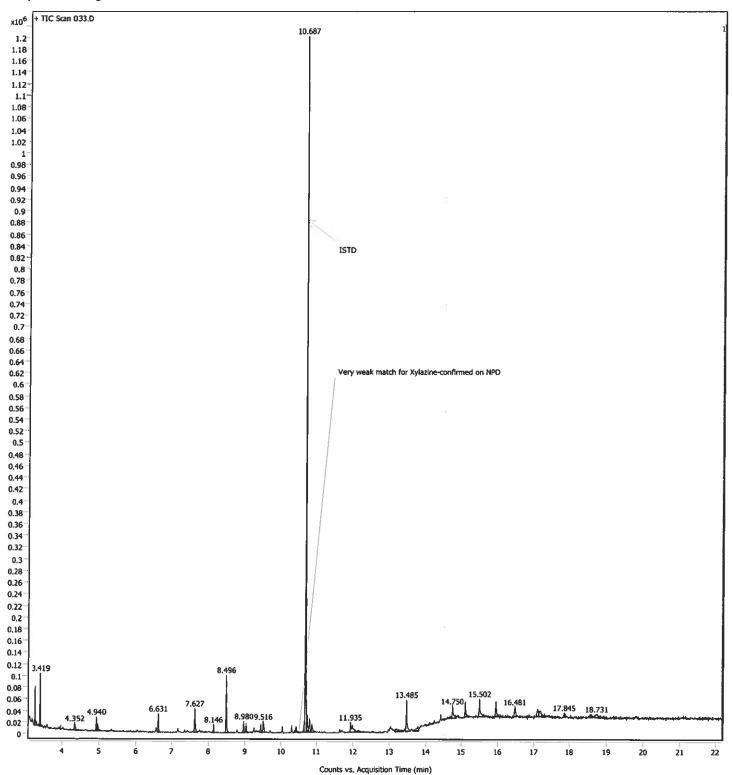
Data File Path Acq. Time (Local)

Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\033.D

9/29/2021 5:36:24 AM (UTC-04:00) $C:\MassHunter\GCMS\1\methods\ALKALI.M$

Sample Chromatograms



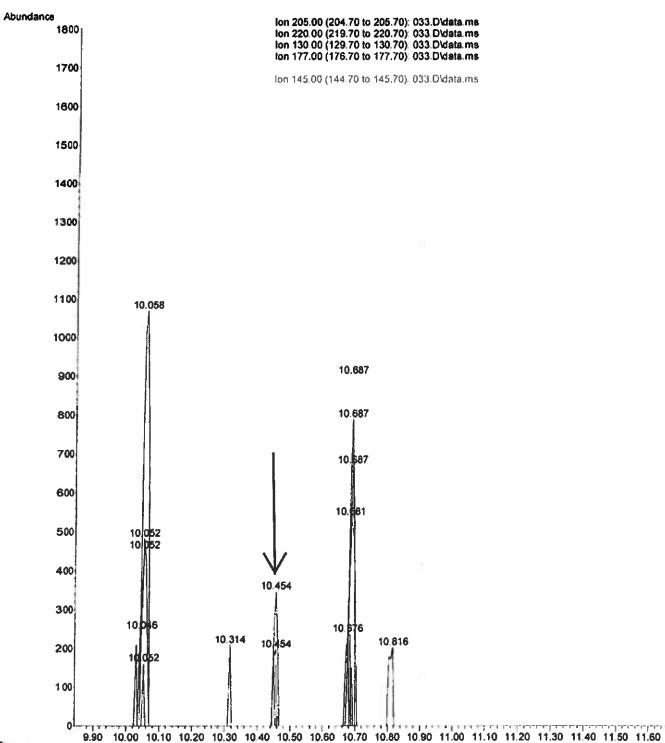
File :C:\Users\TOX\Desktop\092821\033.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 29 Sep 2021 05:36 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced
Sample Name: MATRIX 1 LOO - BLD

Misc Info : 0.005 mg/L - 10 uL of 0.001 mg/mL XYLAZINE WS

Vial Number: 64



Library Searched : C:\MassHunter\Library\CaymanSpectralLibrary.L

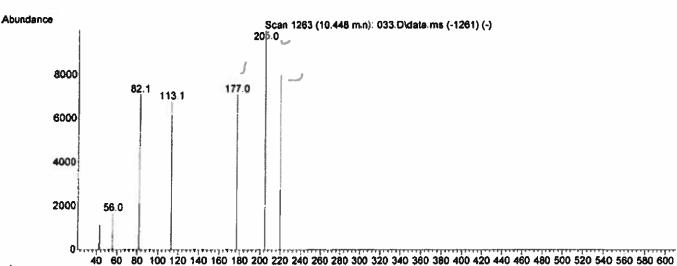
Quality : 2

ID : Xylazine Sample Name: MATRIX 1 LOD - BLD

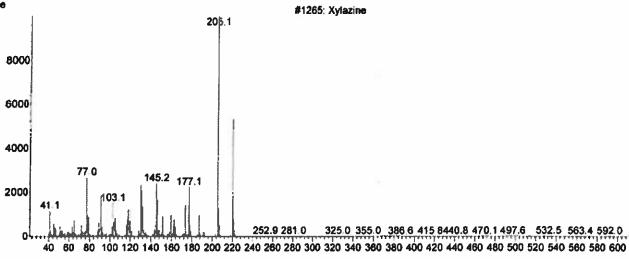
File: C:\Users\TOX\Desktop\092821\033.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 05:36

Vial: 64



m/z--> Abundance



m/z-->

Library Searched : C:\MassHunter\Library\CaymanSpectralLibrary.L

Quality

: 5

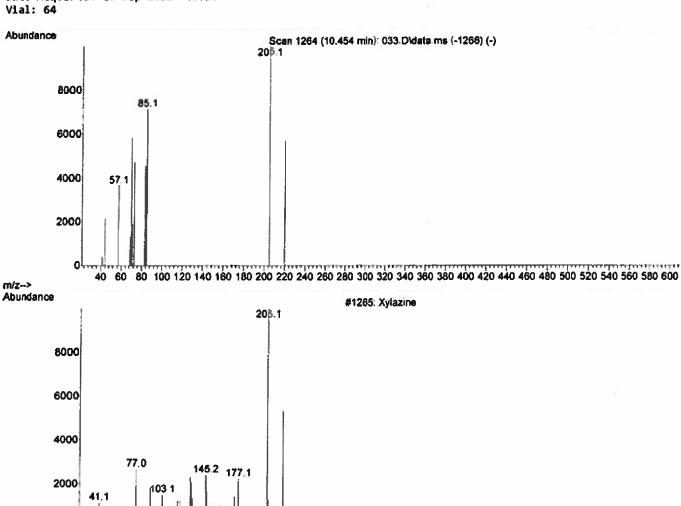
ID : Xylazine Sample Name: MATRIX 1 LOD - BLD

File: C:\Users\TOX\Desktop\092821\033.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 05:36

40 60

m/z-->



252.9 281.0

80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380 400 420 440 460 480 500 520 540 560 580 600

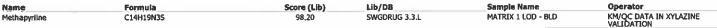
325.0 355.0 386.6 415.8440.8 470.1 497.6 532.5 563.4 592.0

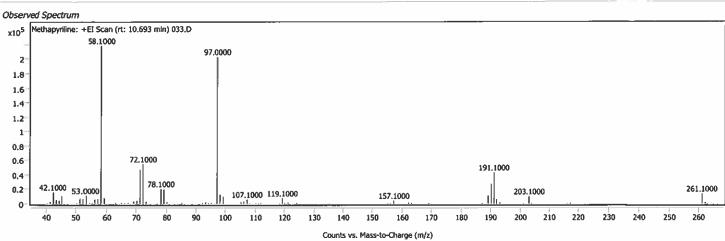


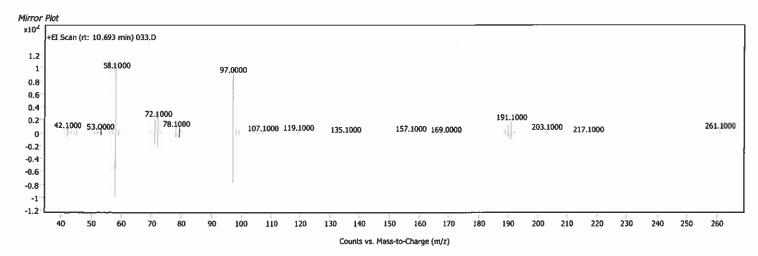
Sample Spectra

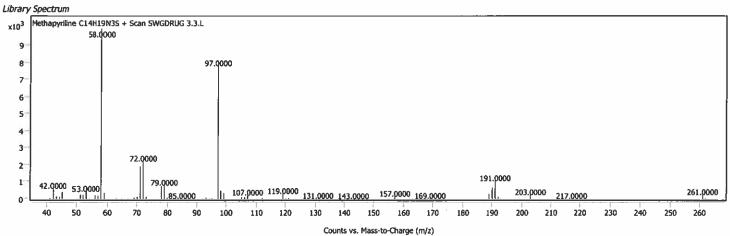


Methapyriline; C14H19N3S









Injection Date: 9/29/2021 Sample Name:

5:09:36 AM

Seq Line:

39 Vial 40

Sample Info:

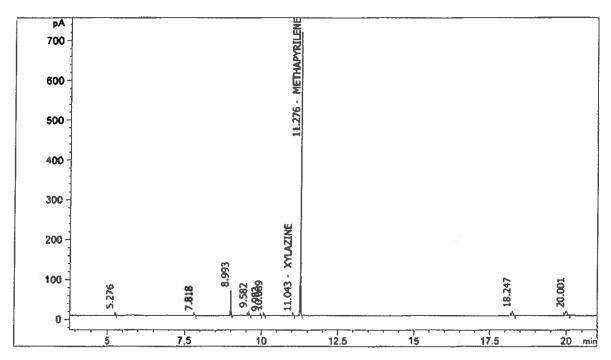
MATRIX 1 LOD - BLD

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.043	11.046	2.828	2.134	0.000000	XYLAZINE RRT - 0.9793
11.276	11.278	827.325	711.058	1.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 6 LOD - URN

#3 - Enhanced

66

KM/QC DATA IN XYLAZINE VALIDATION

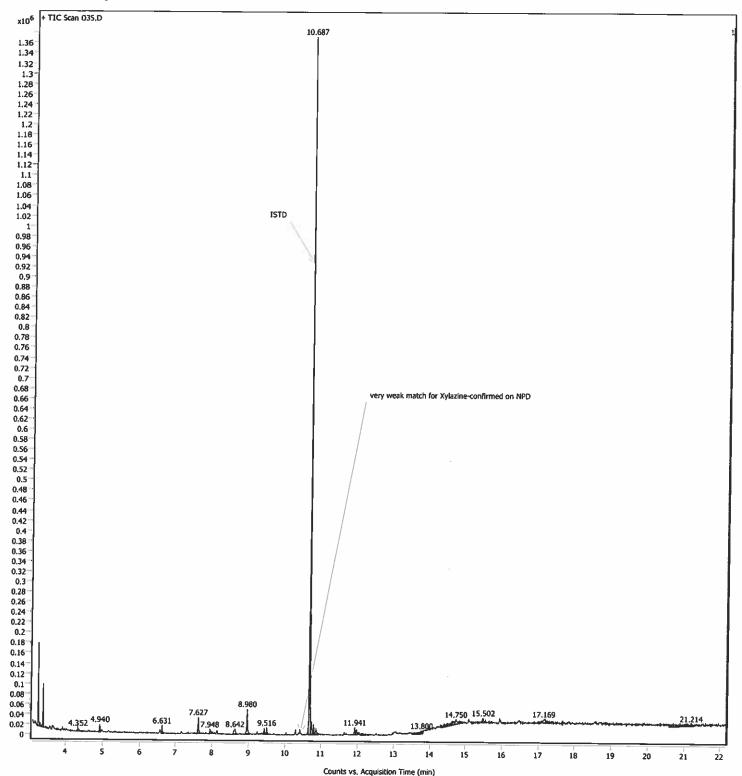
Data File Path

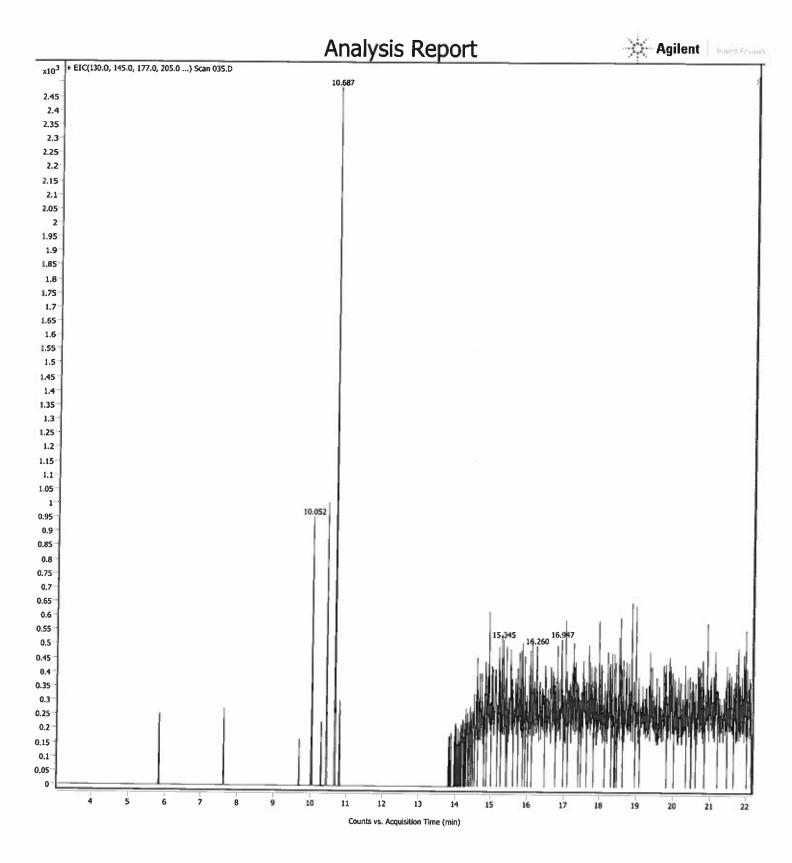
Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\035.D

9/29/2021 6:28:06 AM (UTC-04:00)

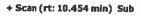
C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

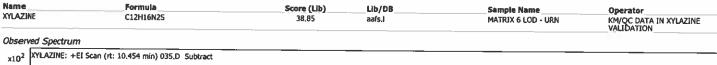


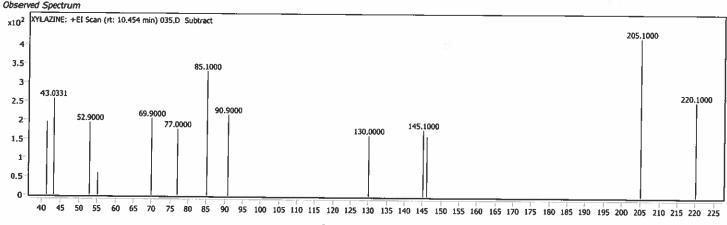


Sample Spectra

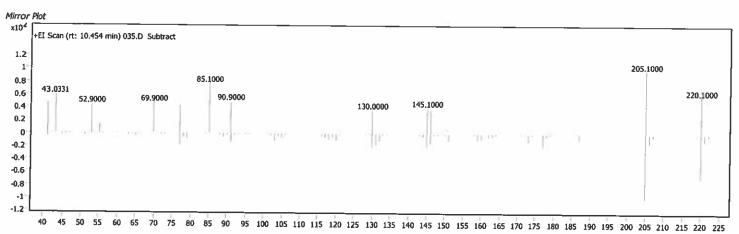


XYLAZINE; C12H16N2S

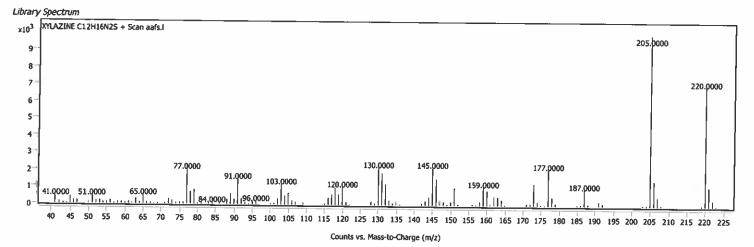




Counts vs. Mass-to-Charge (m/z)



Counts vs. Mass-to-Charge (m/z)





+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Formula Score (LIb) LIb/DB Sample Name Operator Methapyriline C14H19N3S 98.64 SWGDRUG 3.3.L MATRIX 6 LOD - URN KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum Methapyriline: +EI Scan (rt. 10,687 min) 035,D x10⁵ 58.1000 3.5 3.25 97.0000 3 2.75 2.5 2.25 2 1.75 1.5 1.25 1 72.1000 0.75 191.1000 0.5 42,1000 53,1000 79.1000 0.25 107.0000 119.1000 261.2000 157.0000 203,1000 40 50 60 70 90 100 130 140 150 160 170 180 190 200 210 220 230 240 250 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 EI Scan (rt: 10.687 min) 035.D 1.2 58.1000 97,0000 8.0 0.6 0.4 72,1000 0.2 191.1000 42.1000 53.1000 79.1000 203.1000 217.0000 107.0000 119.1000 135.1000 157.0000 169.2000 261,2000 0 -0.2 -0.4 -0.6 -0.8 -1.2 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum x10³ Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L 58.dooo 8 97.0000 6 5 4 3 72.0000 2 42.0000 53.0000 191.0000 79,0000 107.0000 119.0000 .85.0000 203.0000 157.0000 169.0000 131.0000 143.0000 261.0000 217.0000

40

50

60

100

110

120

130

140

150

Counts vs. Mass-to-Charge (m/z)

190

200

210

220

230

240

250

260

Injection Date: 9/29/2021 5:58:17 AM Sample Name:

Seq Line:

41 Vial 42

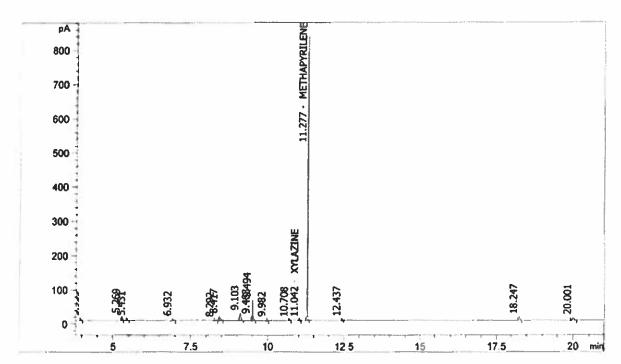
Sample Info:

MATRIX 6 LOD - URN

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.042	11.046	3.000	2.467		XYLAZINE RRT-0.9792
11.277	11.278	949.131	825.492		METHAPYRILENE

Sample Name Instrument

Position

Operator

MATRIX 10 LOD - LVR

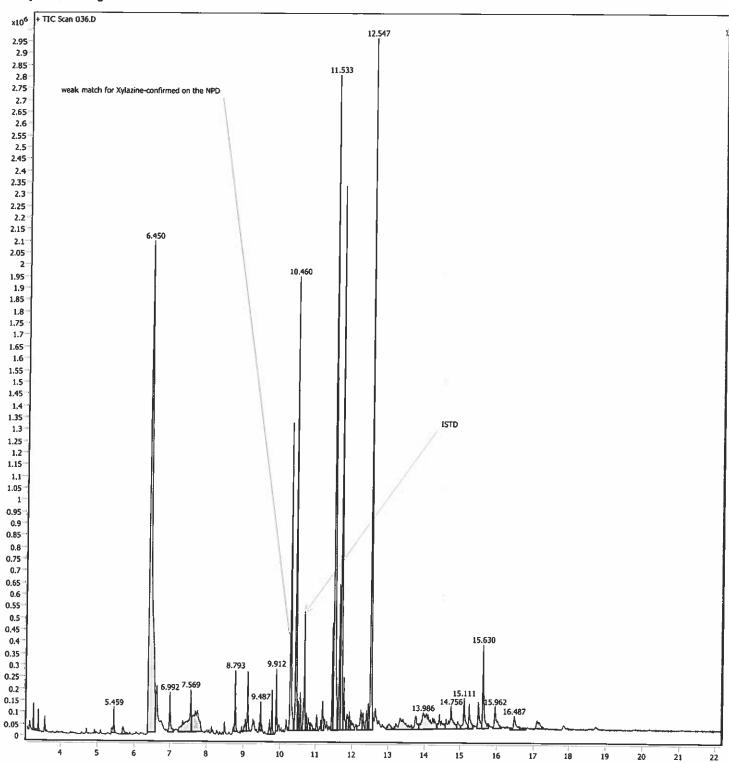
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\036.D

9/29/2021 6:53:53 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

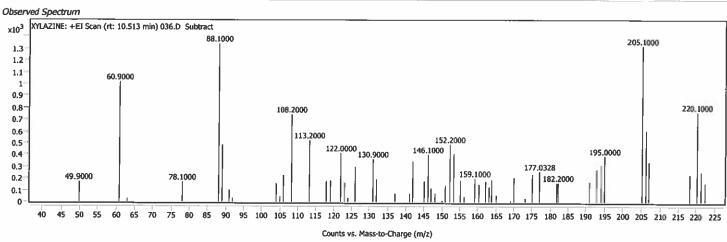
Sample Spectra

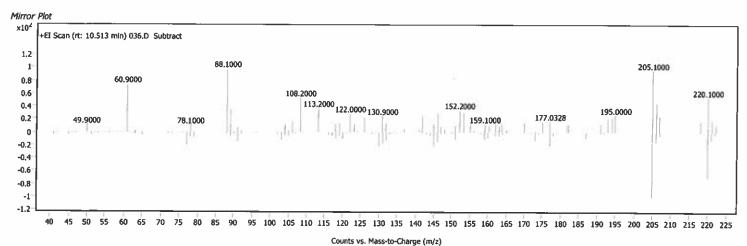
+ Scan (rt: 10.687 min)

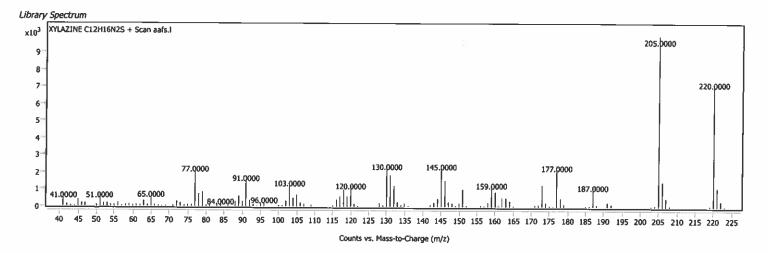
+ Scan (rt: 10.513 min) Sub

XYLAZINE; C12H16N2S











+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Name Formula Score (Llb) Lib/DB Sample Name Operator Methapyriline C14H19N3S SWGDRUG 3.3.L MATRIX 10 W/ISTD 2.0 mg/L- LVR KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum x10⁵ Methapyriline: +El Scan (rt: 10,687 min) 056.D 58,1000 1.1 97.0000 0.9 8.0 0.7 0.6 0.5 0.4 72.1000 0.3 191.1000 0,2 79,1000 42,1000 53.1000 0,1 85.1000 107,1000 119,1000 203.1000 261.2000 157,0000 50 60 70 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 10.687 min) 056.D 1.2 58.1,000 1 97.0000 0,8 0,6 0.4 72.1000 0.2 191,1000 42.1000 53.1000 79.1000 107.1000 119.1000 130.0000 141.2000 203,1000 261.2000 157.0000 168.1000 220,1000 0 -0.2 -0.4 -0.6 -0.8 -1.2 40 50 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum lethapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000 97.0000 7-6 5 3 72.0000 2

42.0000 _{53.0000}

50

60

40

79,0000

.85.0000

107.0000 119.0000

110

131.0000 143.0000

140

150

Counts vs. Mass-to-Charge (m/z)

191,0000

190

203.0000

210

200

220

230

240

250

157.0000 169.0000

170

180

160

261.0000

260

42

Injection Date: 9/29/2021 6:22:37 AM Seq Line:

Vial 43

Sample Info:

Acq. Method:

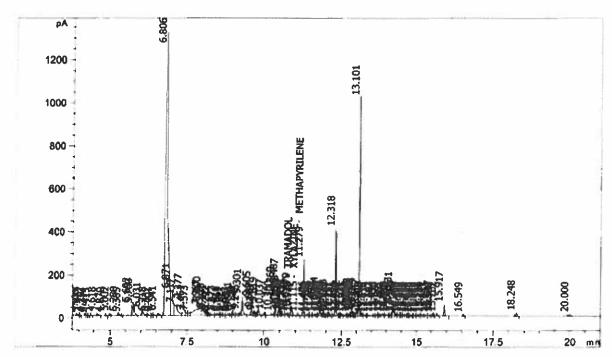
Sample Name:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 10 LOD - LVR

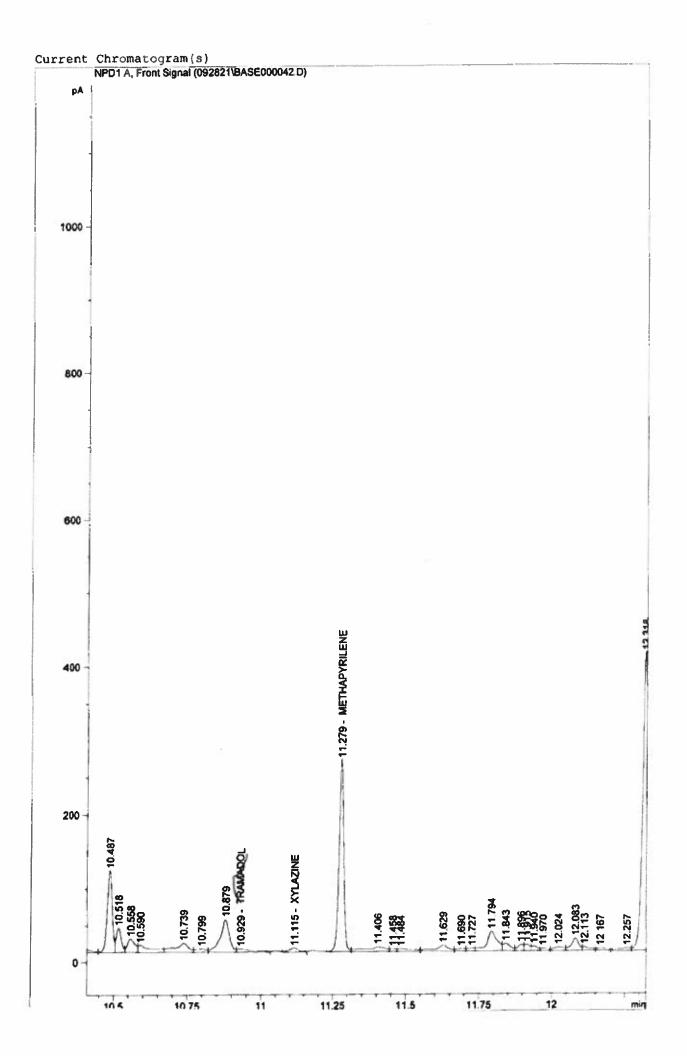
KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
10.929 11.115 11.279	11.033 11.046 11.278	15.959 11.746 298.938	4.366 5.267 259.493	0.000000	TRAMADOL ND XYLAZINE RRT - 0.9855 METHAPYRILENE

LVR not used in avg of RRTs



ASSAY:

Base Screen

Analyst(s):

K.Meinweiser

	Sample / FS #	Item #	Sample Info		is
7	MATRIX 2 BASE DRUGS ONLY	BLD	2.0 mg/L - 400uL of 0.01 mg/mt_ of SWCTL	56	MATRI
2	MATRIX 1 BASE DRUGS ONLY	BLD		27	MATRI
3	MATRIX 6 BASE DRUGS ONLY URN	URN		28	28 MATRIX
4	MATRIX 10 BASE DRUGS ONLYLVR	LVR	2.0 mg/L - 400uL of 0.01 mg/mL of Cal	29	29 MATRIX
2	MATRIX 2 BASE DRUGS ONLY	BLD	2.0 mg/L - 400uL of 0.01 mg/mL of IHCTL	30	30 MATRIX
9	MATRIX 1 BASE DRUGS ONLY	aro		31	MATRIX
7	MATRIX 6 BASE DRUGS ONLY URN	URN		32	32 MATRIX
8	MATRIX 10 BASE DRUGS ONLY LVR	LVR		33	
6	MATRIX 2 BASE DRUGS	O78	2.0 mg/L - 400uL of 0.01 mg/mL of SWCTL	34	
10	MATRIX 1 BASE DRUGS	BLD	plus 2.0 mg/L - 400ul. of 0.01 mg/ml. of Xylazine	35	
11	MATRIX 6 BASE DRUGS	URN		36	
12	MATRIX 10 BASE DRUGS	LVR	2.0 mg/L - 400uL of 0.01 mg/mL of Cal	37	
13	MATRIX 2 BASE DRUGS	BLD	2.0 mg/L - 400uL of 0.01 mg/mL of IHCTL	38	
14	MATRIX 1 BASE DRUGS	GTB	plus 2.0 mg/L - 400uL of 0.01 mg/mL of Xylazine	39	
15	15 MATRIX 6 BASE DRUGS	URN		40	
16	16 MATRIX 10 BASE DRUGS	LVR	*satisfies 2.8.1.1.5	41	
17	MATRIX 2 0.10 mg/L	BLD	20 uL of 0.01 mg/mL std	42	
18	MATRIX 1 0.10 mg/L	BLD		43	
19	19 MATRIX 6 0.10 mg/L	URN		44	
20	20 MATRIX BLANK			45	
21	MATRIX 2 0.50 mg/L	BLD	100 uL of 0.01 mg/mL std	46	
22	22 MATRIX 1 0.50 mg/L	BLD		47	
23	MATRIX 6 0.50 mg/L	URN		48	
24	MATRIX BLANK			49	
25	25 MATRIX 2 1.0 mg/L	BLD	200 uL of 0.01 mg/mL std	20	

Specimens removed from TX ADM storage, aliquots removed for analysis, specimens returned to TX ADM storage by, unless otherwise noted:

1
3
.3
-3
3
3
3
1
7
ید
lys
e E

Time Returned:_ Time Removed: N/A

Date: 09-28-21

X Z

220-F156 Toxiclogy Barcode Batch Worksheet Issued by Toxicology Program Manager

Issue Date: 02-July-2020

QC Data File: Xylazine Validation

BLD 400 uL of 0.01 mg/ BLD URN		Sample / FS #	Item #	Sample Info
MATRIX 6 1.0 mg/L MATRIX BLANK MATRIX 2 2.0 mg/L MATRIX 1 2.0 mg/L MATRIX 6 2.0 mg/L MATRIX BLANK MATRIX BLANK MATRIX BLANK	5 6	MATRIX 1 1.0 mg/L	BLD	
MATRIX BLANK MATRIX 2 2.0 mg/L MATRIX 1 2.0 mg/L MATRIX 8 2.0 mg/L MATRIX BLANK MATRIX BLANK MATRIX BLANK	27		URN	
g/L BLD 400 uL of 0.01 mg/ g/L URN	28	MATRIX BLANK		
g/L BLD g/L URN	29	MATRIX 2 2.0 mg/L	BLD	
g/L URN	30	MATRIX 1 2.0 mg/L	BLD	
	31	MATRIX 6 2.0 mg/L	URN	
33 34 35 36 37 40 41 42 43 45 46 47 48 49	32	MATRIX BLANK		*satisfies 2.8.1.1.7
34 35 36 37 40 41 42 43 46 46 47 48 49	33			
35 36 37 38 40 41 42 43 46 46 47 48 49	34			
36 37 38 39 40 41 42 43 44 45 46 47 48 49 50	35			
37 38 39 40 41 42 43 44 45 46 47 48 49 50	36			
38 39 40 41 42 43 45 46 47 48 49 50	37			
39 40 41 42 43 44 45 46 47 48 49 50	38			
40 41 42 43 44 45 46 47 48 49	 39			
41 42 43 44 45 46 47 48 49 50	 40			
42 43 44 45 46 47 48 49 50	41			
43 44 45 46 47 48 49 50	42			
44 45 46 47 48 49 50	43			
45 46 47 48 49 50	44			
46 47 48 49 50	45			
47 48 49 50	46			
48 49 50	47			
49 50	48			
20	49			
	20			

Qualtrax ID 26328 Qualtrax Revision 1

SPE lot #: 024170-XD

Control Charts Updated (Initials/Date):

Reviewer / Date:

Extraction: LL / SPE

Page 1 of 1

Toxicology Batch Lot Summary Sheet

Analysis:	Base Quar	nt/Screen			
QC Data File:	Xylazine Validation				
Material	Lot Number	Expiration Date			
ISTD	ISTD-210510	5-10-22			
Xylazine Cal	C-XYLA-20210922	6-10-23			
Phosphate Buffer	9-21-21	9-21-23			
Acetic Acid	8-31-21	8-31-23			
Methanol	DZ846-US	3-10-22			
Hexane	0000269095	9-3-24			
THIA	7-9-21	7-9-23			
DiH ₂ O	In-House	N/A			
Methylene Chloride/IPA/NH4OH	9-28-21	9-29-21			
Statewide Base Control	BQ200122	01-2022			
In-House Base Control	K-IHB-2020	12-18-21			
Base Cal 1	C-Base-202102	01-2022			
Matrix 1	BB0321-1				
Matrix 2	BB0721-1				
Matrix 6	BUR101017				
Matrix 10	LVR09231				

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 11/2/2022 at 4:25:43 PM

Agilent 7890B GC Oven Equilibration Time 0.5 min Max Temperature 325 °C Disabled Slow Fan Oven Program On 90 °C for 2 min Oven Program then 15 °C/min to 245 °C for 0 min Oven#1 then 30 °C/min to 300 °C for 7 min Oven#2 21.167 min Run Time Cryo Off ALS Front Injector Syringe Size $10 \mu L$ Syringe A Syringe has not been selected. Injection Volume Solvent A Washes (PreInj) Solvent A Washes (PostInj) Solvent A Volume 8 uL Solvent B Washes (PreInj) 2 Solvent B Washes (PostInj) Solvent B Volume 8 µL Sample Washes 0 Sample Wash Volume 8 uL Sample Pumps Dwell Time (PreInj) 0 min Dwell Time (PostInj) 0 min Solvent Wash Draw Speed 300 µL/min Solvent Wash Dispense Speed 3000 µL/min Sample Wash Draw Speed 300 µL/min Sample Wash Dispense Speed 3000 µL/min Injection Dispense Speed 6000 µL/min Viscosity Delay 1 sec Sample Depth Disabled Injection Type Standard Ll Airgap 0.2 uL Tray Barcode heater Disabled Barcode mixer Disabled Sample Overlap Mode Sample overlap is not enabled ALS Errors Pause for user interaction Front SS Inlet He Mode Pulsed Splitless Heater On 260 °C 18.881 psi Pressure On Total Flow On 44.5 mL/min Septum Purge Flow On 3 mL/min

On

20 After 2 min mL/min

40 psi Until 0.3 min

Injection Pulse Pressure

Gas Saver

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 11/2/2022 at 4:25:43 PM Purge Flow to Split Vent 40 mL/min at 0.5 min Liner Agilent 5190-2293: 900 µL (Splitless, single tape Back SS Inlet He ***Excluded from Affecting GC's Readiness State** Mode Splitless Heater 250 °C On Pressure On 9.801 psi Total Flow On 41.7 mL/min Septum Purge Flow Off Gas Saver Off Purge Flow to Split Vent 40 mL/min at 0.5 min Liner Agilent 5183-4647; Lot P02-C6823: 870 µL (Split, Column Column #1 21080 Restek RTX-1; SN 1652462 0 °C-350 °C (350 °C); 30 m x 250 μm x 0.25 μm Column lock Unlocked In Front SS Inlet He Out Front Detector NPD (Initial) 90 °C 18.881 psi Pressure Flow 1.5 mL/min Average Velocity 36.082 cm/sec Holdup Time 1.3857 min Flow Program 0n Flow Program 1.5 mL/min for 1 min Flow then 0.2 mL/min per min to 2.2 mL/min for 0 m Run Time 21.167 min Column #2 10223 0 °C-325 °C (325 °C): 30 m x 320 μm x 0.25 μm Column lock Unlocked Iπ Back SS Inlet He Out Back Detector FID (Initial) 90 °C Pressure 9.801 psi Flow 1.7 mL/min Average Velocity 31.621 cm/sec Holdup Time 1.5812 min Flow Program Flow Program 1.7 mL/min for 1 min Flow then 0.2 mL/min per min to 3 mL/min for 0 min Run Time 21.167 min Front Detector NPD Heater 310 °C On H2 Flow On 3 mL/min Air Flow On 60 mL/min Makeup Flow (Combined) On 10 mL/min Carrier Gas Flow Correction Included in Makeup Flow Bead On Signal 1 Type NPD Maximum Bead Voltage 4.095 V Blos Bead No

method: C:\CHEM32\1\METHODS\ALKALI.M Modified on: 11/2/2022 at 4:25:43 PM Dry Bead Yes Auto Adjust Bead No Back Detector FID ***Excluded from Affecting GC's Readiness State** Heater 280 °C Òn H2 Flow Off Air Flow Off Makeup Flow On 25 mL/min Carrier Gas Flow Correction Does not affect Makeup or Fuel Flow Flame Electrometer On Signals Signal #1: Front Signal Description Front Signal Details Save On Data Rate 50 Hz Signal #2: Back Signal Description Back Signal Details Save Off Data Rate 5 Hz Signal #3: Test Plot Description Test Plot Details Save Off Data Rate 50 Hz Signal #4: Test Plot Description Test Plot Details Save Off Data Rate 50 Hz Run Time Events Run Time Events Run Time Events Time 0 min Run Time Events Event Detector H2 Fuel Flow Run Time Events Position Run Time Events Setpoint Off

2 min

On

Detector H2 Fuel Flow

Run Time Events Time

Run Time Events Event

Run Time Events Position Run Time Events Setpoint Sequence Name: C:\MassHunter\GCMS\1\sequence\alkalival.sequence.xml

Comment: Base

Operator: KM/QC DATA IN XYLAZINE VALIDATION KM Data Path: C:\MassHunter\GCMS\1\data\BASES\092821\

Instrument Control Pre-Seq Cmd: Data Analysis Pre-Seq Cmd:

Instrument Control Post-Seq Cmd: Data Analysis Post-Seq Cmd:

Method Sections To Run Sequence Barcode Options

(X) Full Method () On Mismatch, Inject Anyway
() Reprocessing Only () On Mismatch, Don't Inject
(X) Barcode Disabled

(X) Barcode Disabled

vials loaded LA Yd

Line	Type	ALS	File	Method	Sample Name/Misc Info
1)	Sample	26	ETOAC	ALKALI	ETOAC
2)	Sample	27	001	ALKALI	MATRIX 1 0.10 mg/L - BLD
3)	Sample	28	002	ALKALI	MATRIX 2 0.10 mg/L - BLD
4)	Sample	29	003	ALKALI	MATRIX 6 0.10 mg/L - URN
5)	Sample	30	004	ALKALI	MATRIX BLANK after 0.1 mg/L
6)	Sample	31	005	ALKALI	MATRIX 1 0.50 mg/L - BLD
7)	Sample	32	006	ALKALI	MATRIX 2 0.50 mg/L - BLD
8)	Sample	33	007	ALKALI	MATRIX 6 0.50 mg/L - URN
9)	Sample	34	008	ALKALI	MATRIX BLANK after 0.5 mg/L
10)	Sample	35	009	ALKALI	MATRIX 1 1.0 mg/L - BLD
11)	Sample	36	010	ALKALI	MATRIX 2 1.0 mg/L - BLD
12)	Sample	37	011	ALKALI	MATRIX 6 1.0 mg/L - URN
13)	Sample	38	012	ALKALI	MATRIX BLANK after 1.0 mg/L
14)	Sample	39	013	ALKALI	MATRIX 1 2.0 mg/L - BLD
15)	Sample	40	014	ALKALI	MATRIX 2 2.0 mg/L - BLD
16)	Sample	41	015	ALKALI	MATRIX 6 2.0 mg/L - URN
17)	Sample	42	016	ALKALI	MATRIX BLANK after 2.0 mg/L
18)	Sample	43	0147	ALKALI	MATRIX 1 W/ SW CTL - BLD
19)	Sample	44	018	ALKALI	MATRIX 2 W/ SW CTL - BLD
20)	Sample	45	019	ALKALI	MATRIX 6 W/ SW CTL - URN
21)	Sample	46	020	ALKALI	MATRIX 10 W/ 0.01 mg/L CAL -
22)	Sample	47	SOL	ALKALI	Solvent Blank
23)	Sample	48	021	ALKALI	MATRIX 1 W/ IH CTL - BLD
24)	Sample	49	022	ALKALI	MATRIX 2 W/ IH CTL - BLD
25)	Sample	50	023	ALKALI	MATRIX 6 W/ IH CTL - URN
26)	Sample	51	024	ALKALI	MATRIX 10 W/ IH CTL - LVR
27)	Sample	52	SOL1	ALKALI	Solvent Blank 1
28)	Sample	53	025	ALKALI	MATRIX 1 W/ SW CTL + XYLAXINE
29)	Sample	54	026	ALKALI	MATRIX 2 W/ SW CTL + XYLAZINE
30)	Sample	55	027	ALKALI	MATRIX 6 W/ SW CTL + XYLAZINE
31)	Sample	56	028	ALKALI	MATRIX 10 W/ 0.01 mg/L CAL +
32)	Sample	57	SOL2	ALKALI	Solvent Blank 2
33)	Sample	58	029	ALKALI	MATRIX 1 W/ IH CTL + XYLAZINE
34)	Sample	59	030	ALKALI	MATRIX 2 W/ IH CTL + XYLAZINE
35)	Sample	60	031	ALKALI	MATRIX 6 W/ IH CTL + XYLAZINE KM 9 29 21
36)	Sample	61	032	ALKALI	MATRIX 10 W/ IH CTL + XYLAZINE
37)	Sample	62	SOL3	ALKALI	Solvent Blank 3
38)	Sample	63	SOL4	ALKALI	Solvent Blank 4
39)	Sample	64	033	ALKALI	MATRIX 1 LOD - BLD
40)	Sample	65	034	ALKALI	MATRIX 2 LOD - BLD
41)	Sample	66	035	ALKALI	MATRIX 6 LOD - URN

VIOL CHECK 9/29/21 KM

Single Quadrupole Acquisition Method - MS Parameters Report

Method file	C:\MassHunter\GCMS\1\methods\ALKALI.m
Tune file	ATUNE.U
Ion source	EI
Source temperature (°C)	230
Quad temperature (°C)	150
Fixed Electron energy (eV)	70.3
Acquisition Type	Scan
Stop time (min)	22.17
Solvent delay (min)	3.00
Trace Ion Detection	False
Gain Factor	1
EM Saver	False
EM Saver Limit	N/A

Scan Time Segments

Time	Start Mass	End Mass	Threshold	Scan Speed
3.00	40	550	150	1,562 [N=2]

Timed Events

Time	Type of Event	Parameter

Real-Time Plots

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

Self-Cleaning Ion Source Parameters

		-
Mode	No Cleaning	



C:\MassHunter\GCMS\1\methods\ALKALI.m Tue Sep 28 11:40:23 2021

Control Information

Sample Inlet : GC Injection Source : GC ALS

Injection Location: Front

Mass Spectrometer : Enabled

No Sample Prep method has been assigned to this method.

GC GC Summary Run Time Post Run Time	22.167 min 0 min
Oven Temperature Setpoint (Initial) Hold Time Post Run Program #1 Rate #1 Value #1 Hold Time #2 Rate #2 Value	On 90 °C 2 min 0 °C 15 °C/min 245 °C 0 min 30 °C/min 30 °C/min
#2 Hold Time	8 min
Equilibration Time Max Temperature Maximum Temperature Override Slow Fan	0.5 min 325 °C Disabled Disabled
Front Injector Syringe Size Injection Volume Injection Repetitions Injection Delay Solvent A Washes (PreInj) Solvent A Volume Solvent A Volume Solvent B Washes (PreInj) Solvent B Washes (PostInj) Solvent B Volume Sample Washes Sample Washes Sample Pumps Dwell Time (PreInj) Dwell Time (PostInj) Solvent Wash Draw Speed Sample Wash Draw Speed Sample Wash Draw Speed Sample Wash Dispense Speed	10 µL 1 µL 1 0 sec 4 8 µL 4 8 µL 0 0 min 0 min 300 µL/min 3000 µL/min 3000 µL/min

6000 µL/min Injection Dispense Speed Viscosity Delay 0 sec Sample Depth Disabled Tower Fan On Solvent Wash Mode A-A2, B-B2 Sample Overlap Mode Sample overlap is not enabled Pause for user interaction ALS Errors Front SS Inlet He Mode Pulsed Splitless 260 °C Heater On 15.177 psi Pressure On 46.869 mL/min Total Flow On Septum Purge Flow On 3 mL/min Standard Septum Purge Flow Mode 20 After 2 min mL/min Gas Saver On Injection Pulse Pressure 40 psi Until 0.3 min 42.4 mL/min at 0.5 min Purge Flow to Split Vent A Liner has not been selected. Liner Thermal Aux 2 (MSD Transfer Line) Temperature On Setpoint 280 °C (Initial) Column Column #1 Flow Setpoint (Initial) 1.4687 mL/min 1 min Hold Time 1.2 mL/min Post Run Program 0.2 mL/min per min #1 Rate 3 mL/min #1 Value #1 Hold Time 0 min Restek 10123 Column Information Rtx-1 SN 1652464 -60 °C-350 °C (350 °C) Temperature Range 30 m x 250 µm x 0.25 µm Dimensions Front SS Inlet He In Out MSD 90 °C (Initial) 15.177 psi Pressure 1.4687 mL/min Flow 45 cm/sec Average Velocity Holdup Time 1.1111 min Control Mode Ramped Flow 0 psi Column Outlet Pressure Front Detector NPD ***Excluded from Affecting GC's Readiness State*** Makeup Heater Off H2 Flow Off Off Air Flow

Off

Makeup Flow

Carrier Gas Flow Correction Constant Makeup and Fuel Flow

Off

Bead 4.095 V Maximum Bead Voltage No Blos Bead Yes Dry Bead Auto Adjust Bead No

Signals Signal #1:

None Description

Signal #2:

None Description

Signal #3:

None Description

Signal #4:

Description None

TUNE PARAMETERS for SN: US71236345

Trace Ion Detection is OFF.

34-610 : EMISSION 70.347 : 28.232 : ENERGY REPELLER 90.157 : IONFOCUS 32.000 : ENTRANCE LENS 1894.118 : EMVOLTS

> 1894.118 : Actual EMV 0.81 : GAIN FACTOR

2284.000 : AMUGAIN 119.688 : AMUOFFSET 1.000 : FILAMENT 0.000 : DCPOLARITY
18.573 : ENTLENSOFFSET
-530.000 : MASSGAIN
-36.000 : MASSOFFSET

END OF TUNE PARAMETERS

END OF INSTRUMENT CONTROL PARAMETERS



Sample Information

Sample Name Instrument

Position

Operator

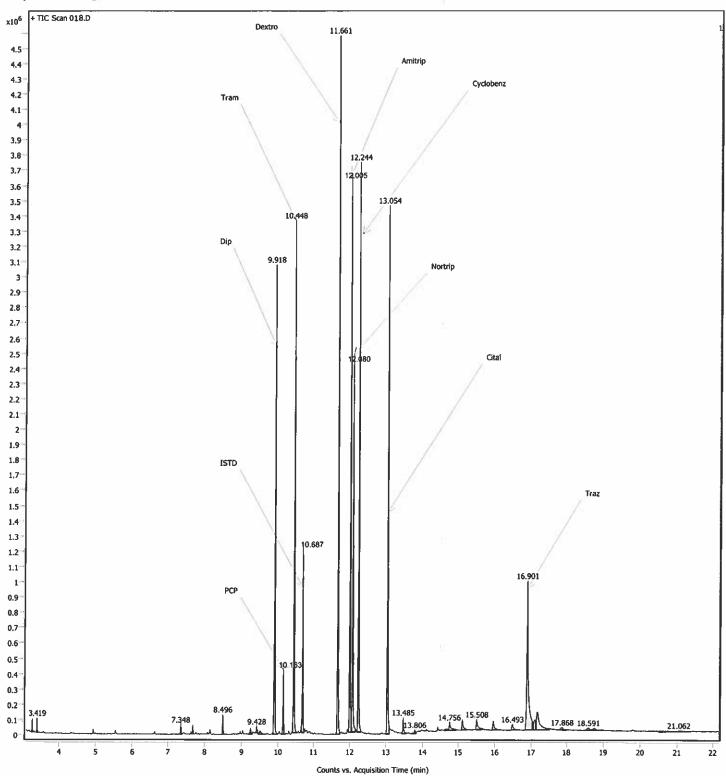
MATRIX 2 W/ SW CTL - BLD

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\018.D 9/28/2021 8:59:46 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

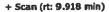
Sample Chromatograms



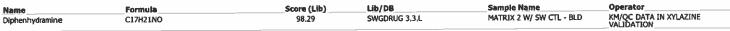


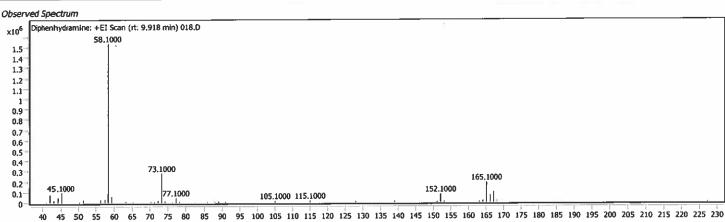


Sample Spectra

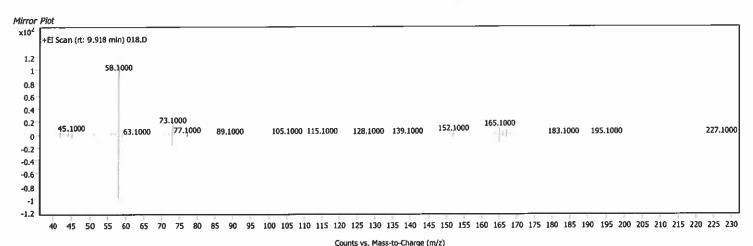


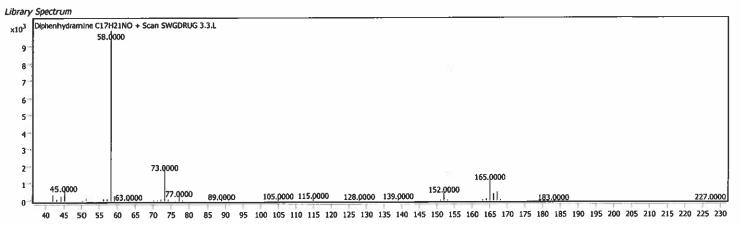
Diphenhydramine; C17H21NO





Counts vs. Mass-to-Charge (m/z)





Counts vs. Mass-to-Charge (m/z)

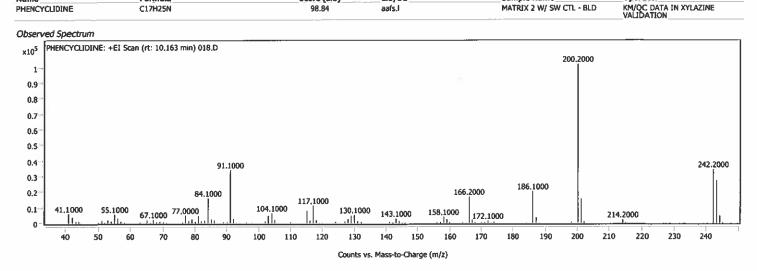
+ Scan (rt: 10.163 min)

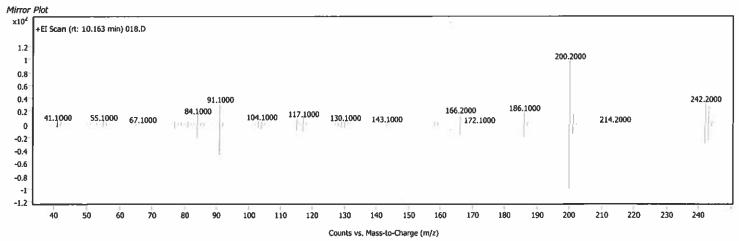
Name

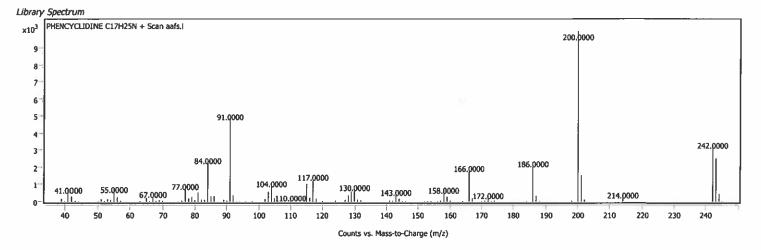


PHENCYCLIDINE; C17H25N

Formula Score (Lib) Lib/DB Sample Name Operator

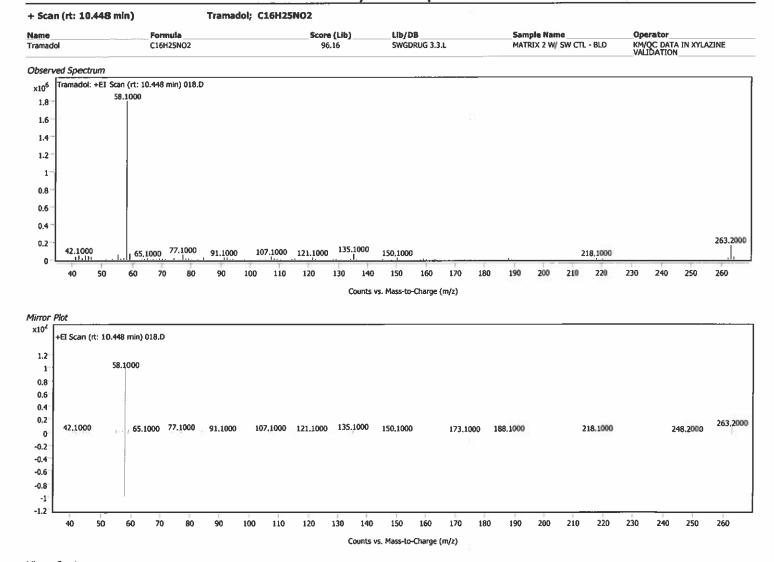


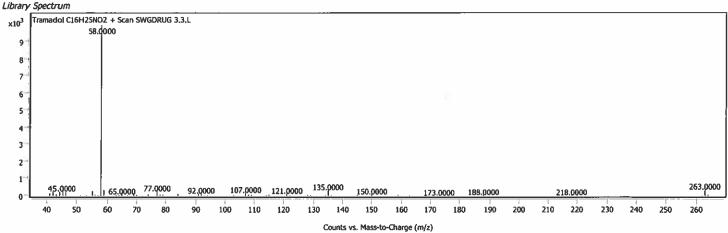








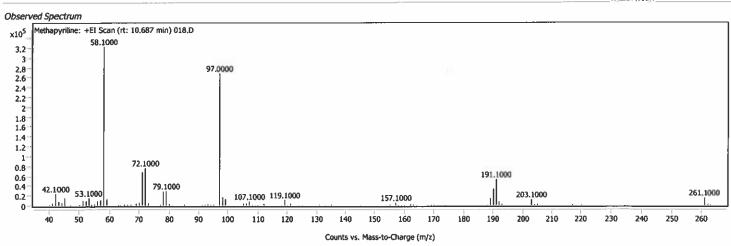


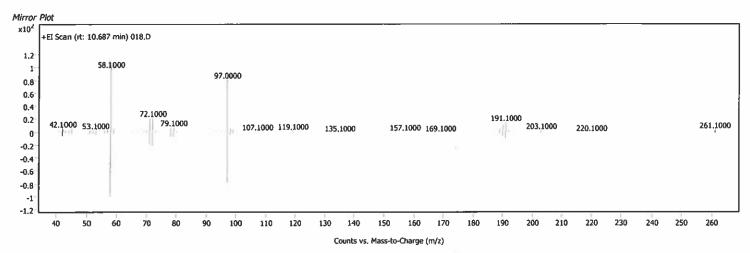


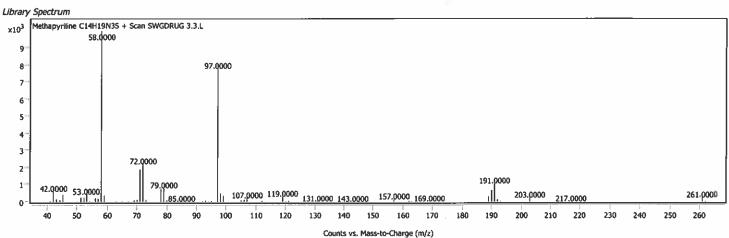












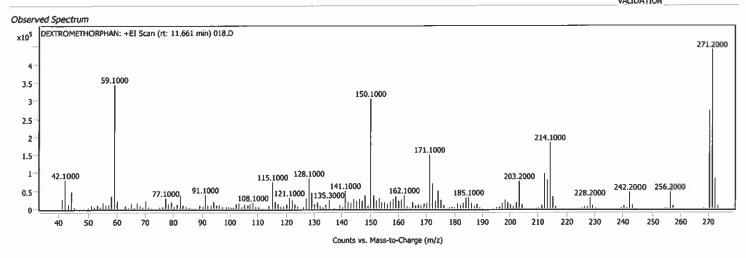


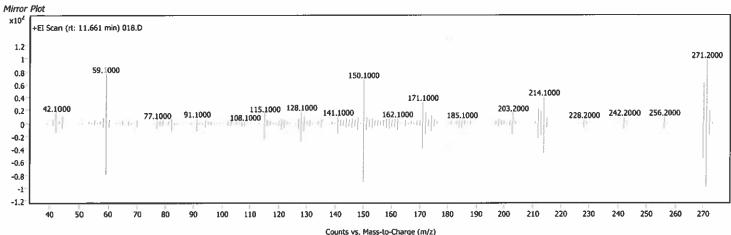


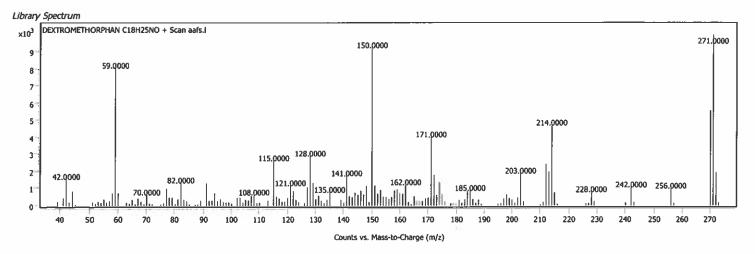
 + Scan (rt: 11.661 min)
 DEXTROMETHORPHAN; C18H25NO

 Name
 Formula
 Score (Lib)
 Lib/DB
 Sample Name
 Operator

 DEXTROMETHORPHAN
 C18H25NO
 92.43
 aafs.I
 MATRIX 2 W/ SW CTL - BLD
 KM/QC DATA IN XYLAZINE VALIDATION



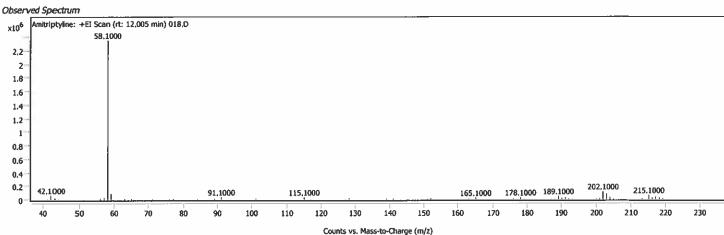


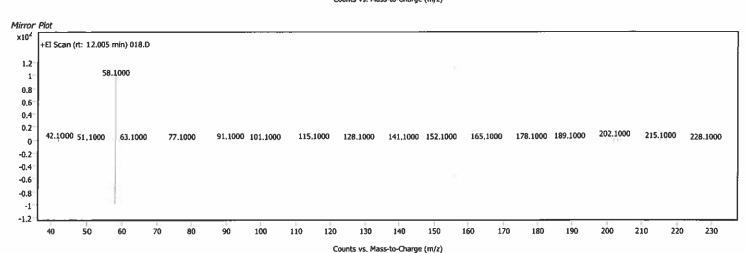


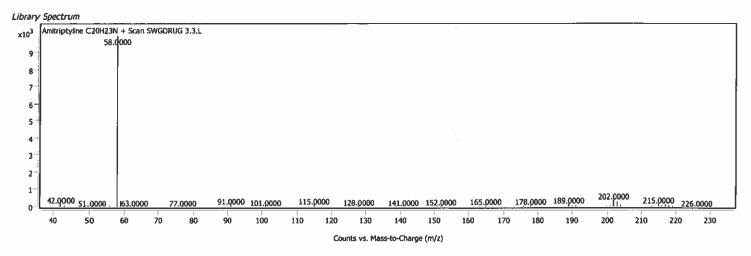






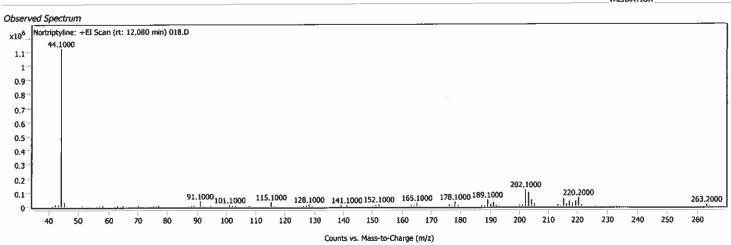


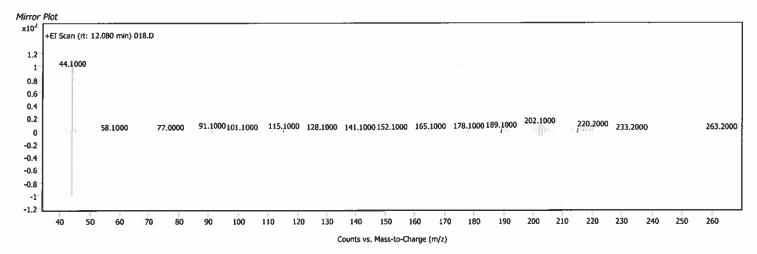


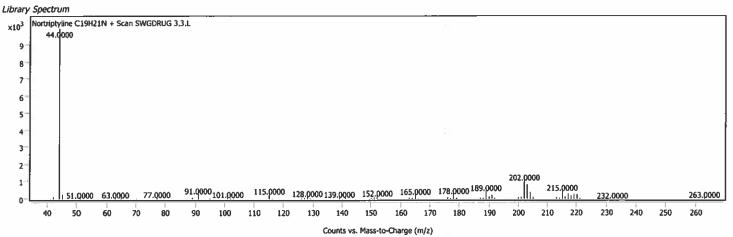










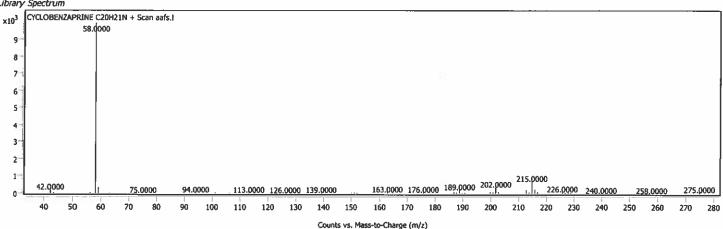


CYCLOBENZAPRINE; C20H21N

+ Scan (rt: 12.244 min)



Lib/DB Name Formula Score (Lib) Sample Name Operator CYCLOBENZAPRINE C20H21N 96.83 aafs.l MATRIX 2 W/ SW CTL - BLD KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum CYCLOBENZAPRINE: +El Scan (rt: 12,244 min) 018.D x10⁶ 58.1000 2.2 2 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 215,1000 189.1000 202.1000 0.2 42,1000 228.1000 40 50 70 100 110 120 130 140 150 160 170 180 190 200 210 220 240 250 260 270 280 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 12.244 min) 018.D 1.2 58.1000 1 8.0 0.6 0.4 0.2 163.1000 176.1000 189.1000 202.1000 215.1000 228.1000 42.1000 75,1000 94.5000 107,4000 126.1000 139.1000 275,2000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 40 50 60 70 80 90 100 110 120 130 170 210 230 240 140 150 160 180 190 200 220 250 260 280 270 Counts vs. Mass-to-Charge (m/z) Library Spectrum





+ Scan (rt: 13.054 min) CITALOPRAM; C20H21FN2O Formula Score (Lib) LIb/DB Sample Name Operator MATRIX 2 W/ SW CTL - BLD KM/QC DATA IN XYLAZINE VALIDATION CITALOPRAM C20H21FN2O 96.09 aafs.l Observed Spectrum CITALOPRAM: +EI Scan (rt: 13.054 min) 018.D x10⁶ 1.6 1.4 1.2 1 0.8 0.6 0.4 238,1000 324,2000 0.2 42.1000 208.1000 71,1000 190,1000 95,1000 109,1000 130 140 150 160 170 180 230 240 250 260 310 320 330 40 70 100 110 120 190 200 210 220 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 13.054 min) 018.D 1.2 58.1000 8.0 0.6 0.4 0.2 238,1000 324,2000 42.1000 95.1000 109,1000 123,1000 140,1000 190,1000 208,1000 170.1000 260.1000 295,2000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 160 170 180 190 200 210 220 230 240 250 Counts vs. Mass-to-Charge (m/z) Library Spectrum CITALOPRAM C20H21FN2O + Scan aafs.I x10³ 58.0000 8 5 4 3

190.0000

Counts vs. Mass-to-Charge (m/z)

200

210 220

2

42.0000

70

40 50

95.0000 109.0000 123.0000 140.0000

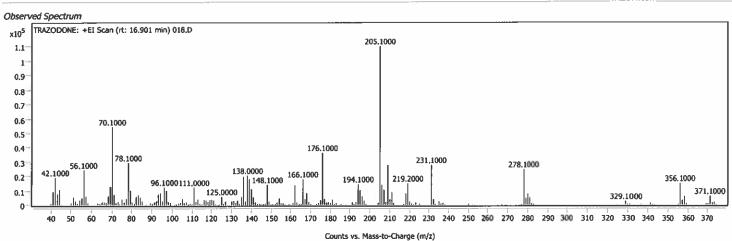
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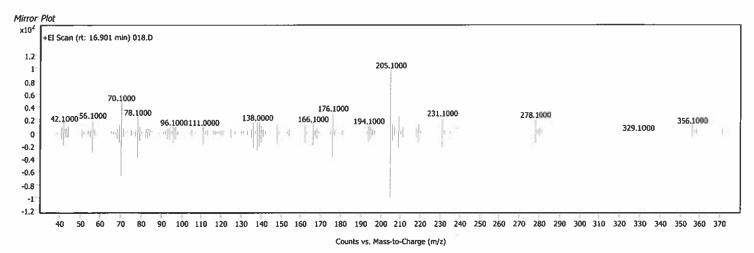
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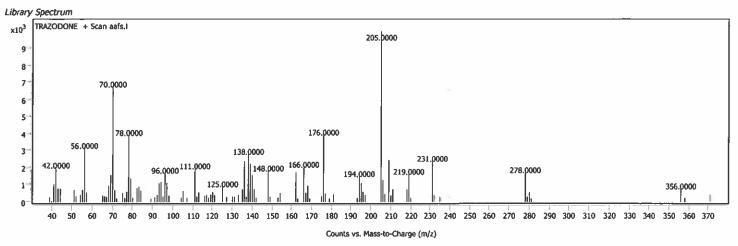
238,0000

230 240 250









Injection Date:

9/28/2021

9:03:11 PM

Seg Line:

19 Vial 20

Sample Name:

Sample Info:

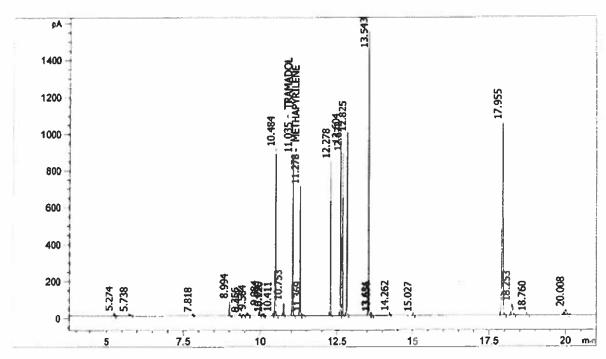
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 2 W/ SW CTL - ->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.035	11.033	1079.018	871.382	0.000000	TRAMADOL RRT-0.9785
0.000	11.046	0.000	0.000		XYLAZINE
11.278	11.278	799.039	694.321		METHAPYRILENE



Sample Information

Sample Name Instrument

Position

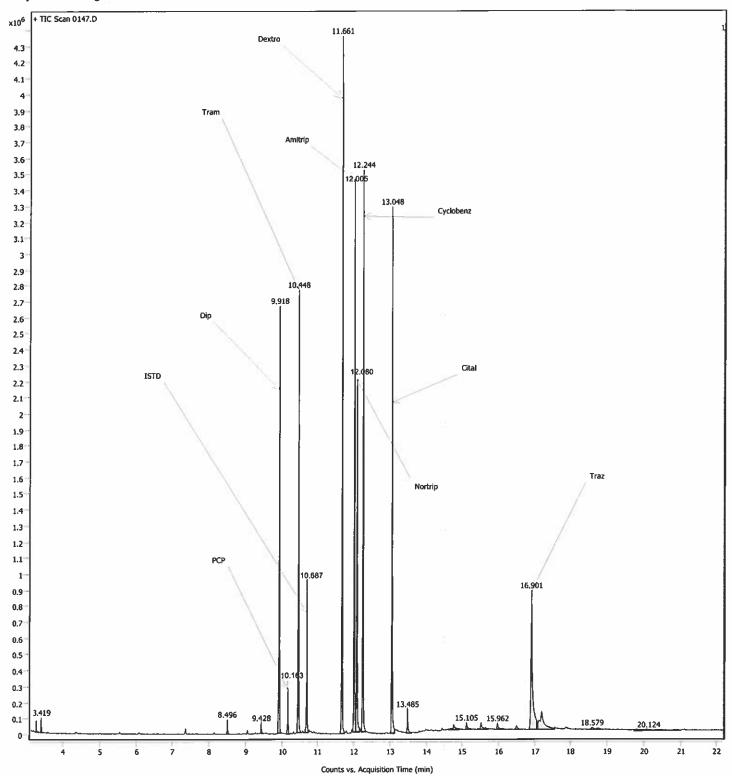
Operator

MATRIX 1 W/ SW CTL - BLD

KM/QC DATA IN XYLAZINE VALIDATION

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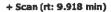
Sample Chromatograms





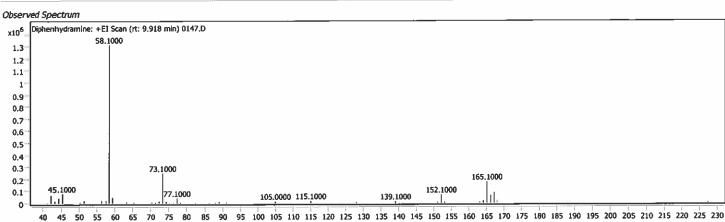


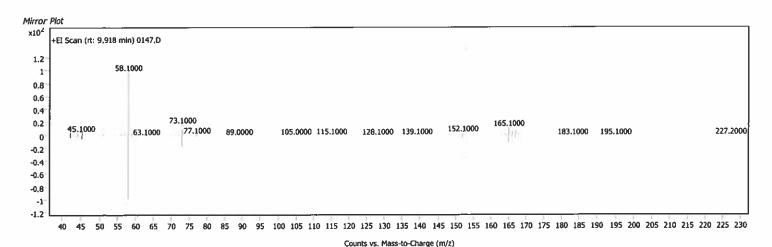
Sample Spectra



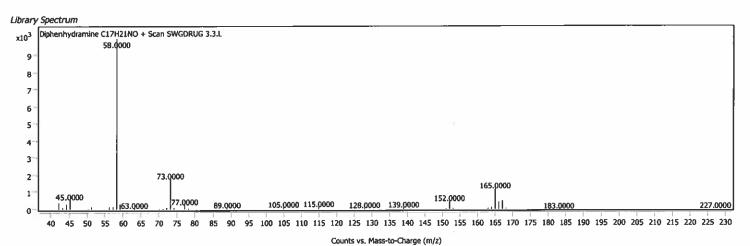
Diphenhydramine; C17H21NO







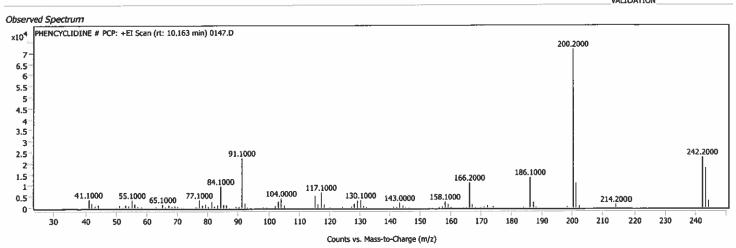
Counts vs. Mass-to-Charge (m/z)

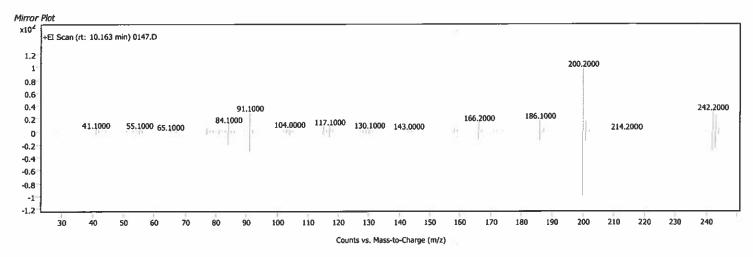


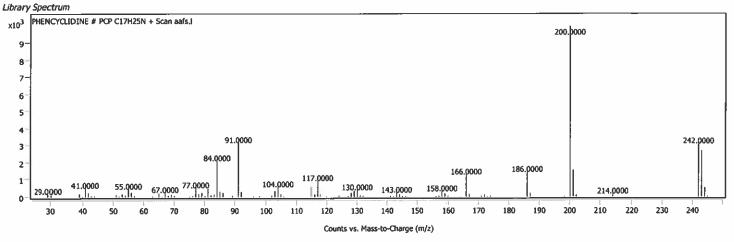


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PHENCYCLIDINE # PCP; C17H25N + Scan (rt: 10.163 min) Score (LIb) Lib/DB Sample Name Formula Name KM/QC DATA IN XYLAZINE VALIDATION PHENCYCLIDINE # PCP C17H25N MATRIX 1 W/ SW CTL - BLD

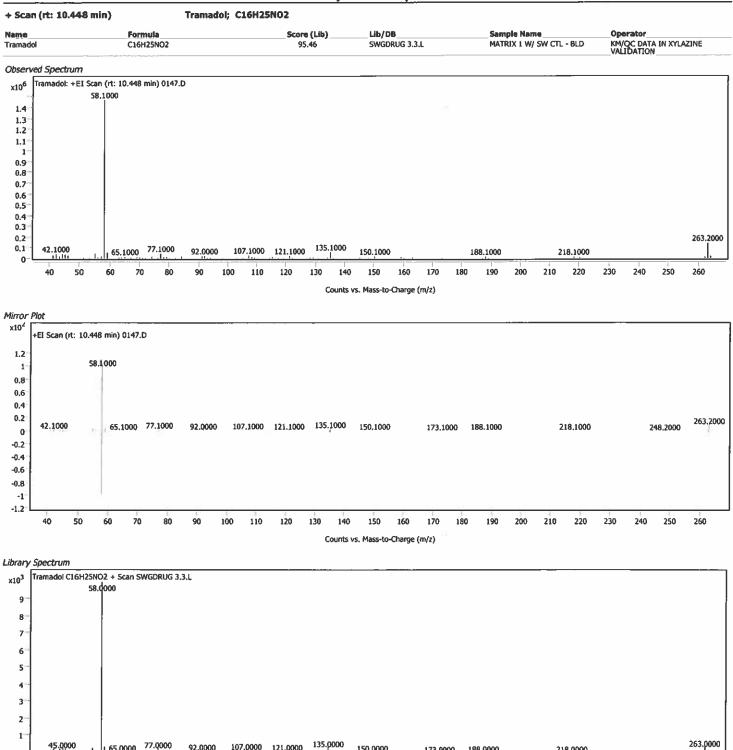












107.0000

121.0000

Counts vs. Mass-to-Charge (m/z)

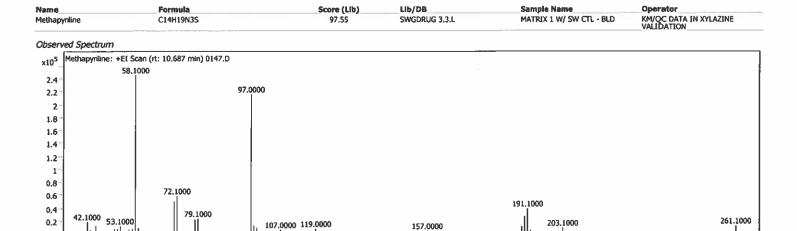
Methapyriline; C14H19N3S

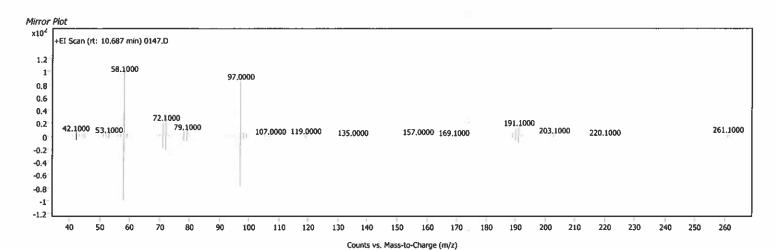
Counts vs. Mass-to-Charge (m/z)

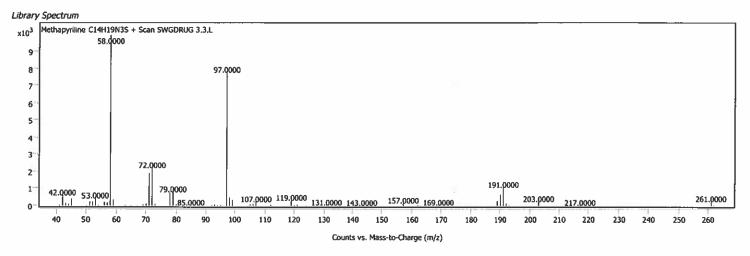
+ Scan (rt: 10.687 min)













242.2000 256,2000

250

260

270

228.2000

220

Agilent Trastest Actavate

+ Scan (rt: 11.661 min) **DEXTROMETHORPHAN; C18H25NO** Formula Score (Lib) Lib/DB Sample Name Operator MATRIX 1 W/ SW CTL - BLD KM/QC DATA IN XYLAZINE VALIDATION DEXTROMETHORPHAN C18H25NO 92.19 aafs.l Observed Spectrum x10⁵ DEXTROMETHORPHAN: +EI Scan (rt: 11.661 min) 0147.D 271,2000 3.5 59.1000 3 150.1000 2.5 2 214,1000 171.1000

115.1000 128.1000

121,1000

120

108,1000

110

100

91.1000

77.1000,

70

60

50

1

0.5

0

42,1000

40

Counts vs. Mass-to-Charge (m/z)

150

Hilmillil

162,1000

160

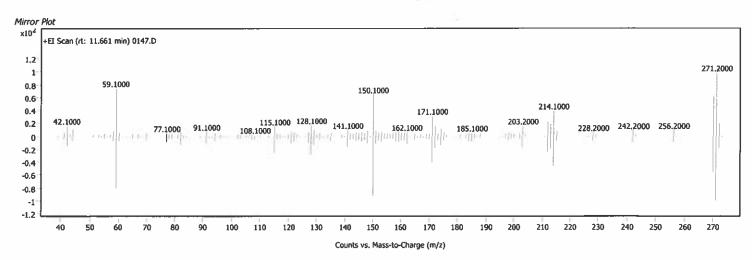
141,1000

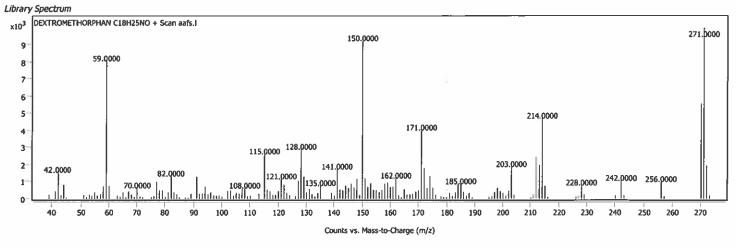
135.3000

203.2000

210

185.1000







Amitriptyline; C20H23N + Scan (rt: 12.005 mln) Sample Name Score (Lib) LIb/DB Operator KM/QC DATA IN XYLAZINE VALIDATION SWGDRUG 3.3.L MATRIX 1 W/ SW CTL - BLD Amitriptyline C20H23N 97.96 Observed Spectrum Amitriptyline: +EI Scan (rt: 12.005 min) 0147.D x10⁶ 2.2 2 1.8 1.6 1,4 1.2 1 0.8 0,6 0.4 0,2 202,1000 42.1000 178,1000 189,1000 215,1000 91,1000 115.1000 165,1000 200 210 230 70 90 100 110 140 150 160 170 190 220 40 50 60 80 120 130 180 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 12.005 min) 0147.D 1,2 58.1000 1 8,0 0.6 0.4 0,2 42.1000 51.1000 202.1000 215.1000 226,1000 178,1000 189.1000 63,1000 77,1000 91.1000 101.1000 115.1000 128.1000 141.1000 152.1000 165,1000 0 -0.2 -0.4 -0.6 **-0.8** -1 -1.2 60 70 100 110 120 150 170 180 190 200 210 220 230 40 50 80 90 130 140 160 Counts vs. Mass-to-Charge (m/z) Library Spectrum Amitriptyline C20H23N + Scan SWGDRUG 3,3.L x10³ 58.0000 8 7 6 5 4 3

2

42.0000 <u>51.0000</u>

50

60

70

40

91.0000 101.0000

100

115.0000

110

128,0000

130

141.0000 152.0000

150

140

Counts vs. Mass-to-Charge (m/z)

165.0000

170

160

202.0000

200

215.0000

220

230

210

178.0000 189.0000

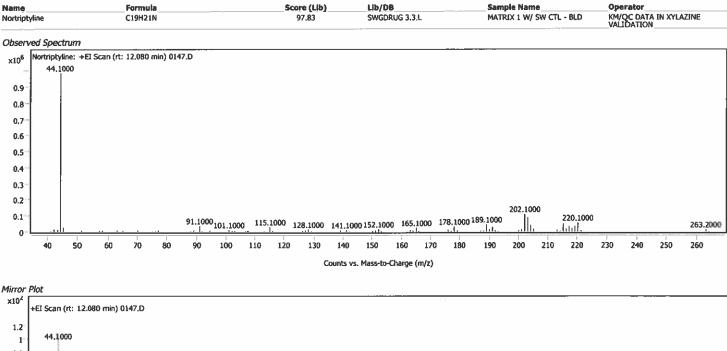
190

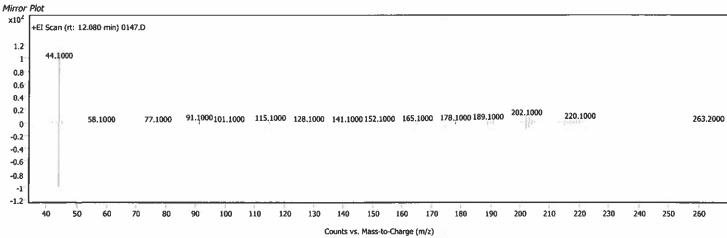
Nortriptyline; C19H21N

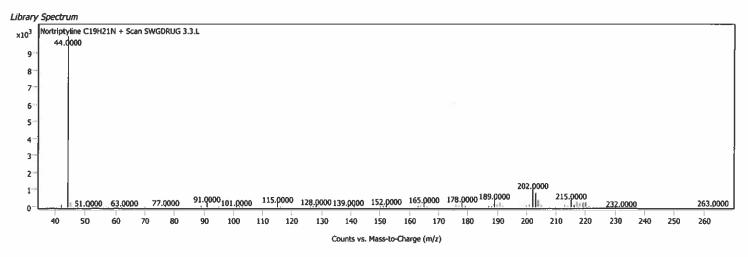
+ Scan (rt: 12.080 min)









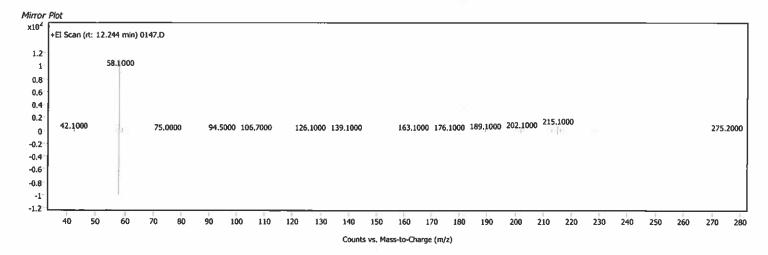


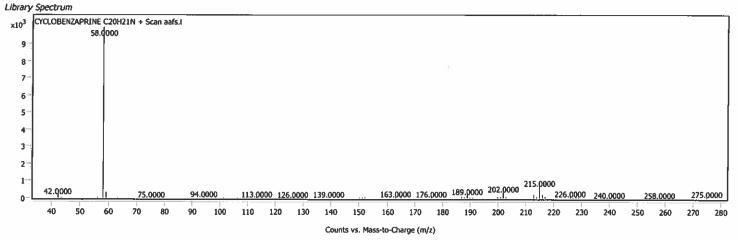
CYCLOBENZAPRINE; C20H21N

+ Scan (rt: 12.244 min)



Name Score (Llb) LIb/DB Formula Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION CYCLOBENZAPRINE C20H21N 96.65 MATRIX 1 W/ SW CTL - BLD aafs.l Observed Spectrum x10⁶ CYCLOBENZAPRINE: +EI Scan (rt: 12,244 min) 0147.D 58.1000 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 215.1000 0.2 189.1000 202.1000 42.1000 40 50 60 70 80 100 110 120 130 140 150 160 170 200 210 230 260 270 280 Counts vs. Mass-to-Charge (m/z)





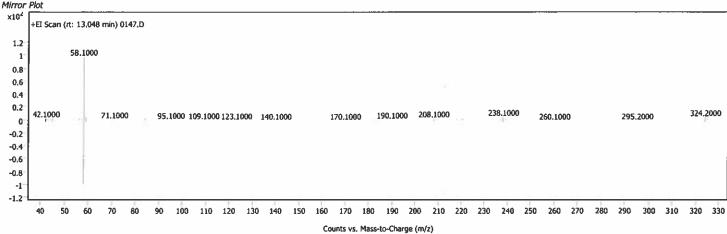
CITALOPRAM; C20H21FN2O

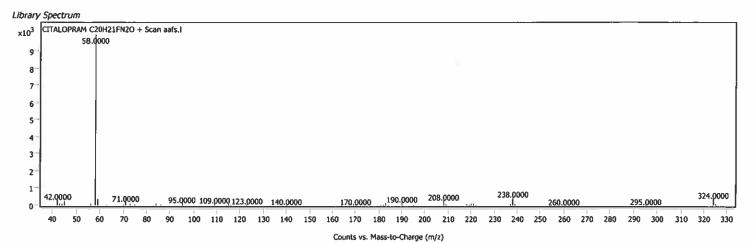
+ Scan (rt: 13.048 min)



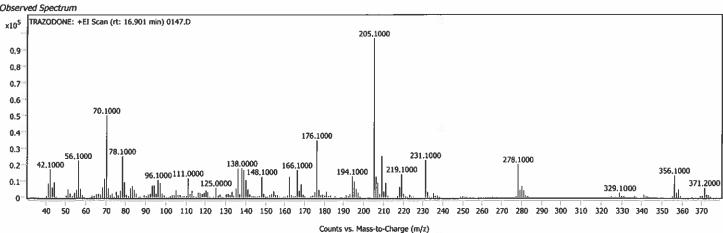
Agilent Trasin Gracue

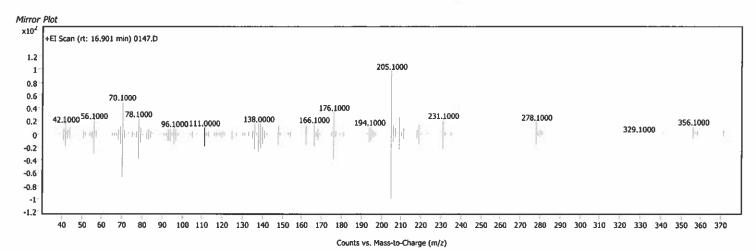
Lib/DB Sample Name Name Formula Score (Llb) Operator KM/QC DATA IN XYLAZINE VALIDATION CITALOPRAM MATRIX 1 W/ SW CTL - BLD C20H21FN2O 96.68 aafs.i Observed Spectrum CITALOPRAM: +EI Scan (rt: 13,048 min) 0147.D x10⁶ 1.6 1.4 1.2 1 8.0 0.6 0.4 0.2 238.1000 324,2000 42.1000 208.1000 71,1000 190.1000 95.1000 109.1000 200 210 220 230 240 250 260 270 280 290 310 320 330 40 70 100 110 120 130 140 150 160 170 180 190 300 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 EI Scan (rt: 13,048 min) 0147.D

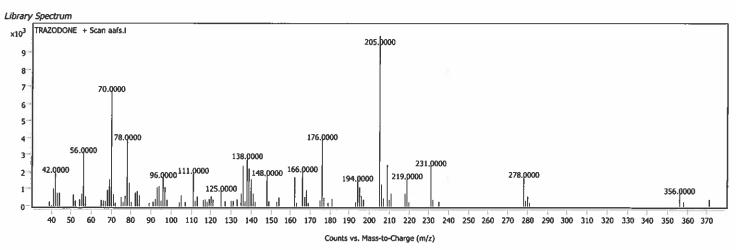












Injection Date: Sample Name:

9/28/2021

8:38:50 PM MATRIX 1 W/ SW CTL - ->

Seg Line:

18 Vial 19

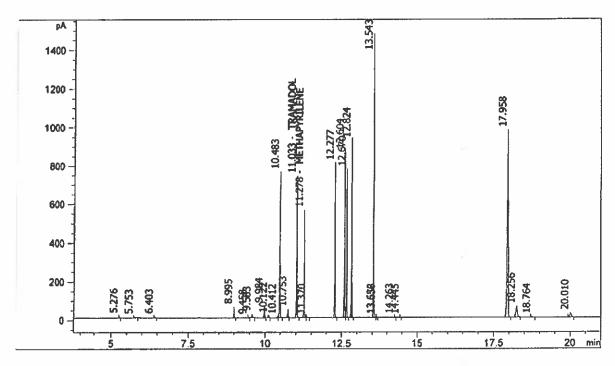
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT			Amount	
[min]	[min]	Area	Height	mg/L	Compound
11.033	11.033	911.867	733.780	0.000000	TRAMADOL RRT - 0.9783
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
11.278	11.278	648.027	555.823	1.000000	METHAPYRILENE

^{*}RT for Tramadol set from sample



Sample Information

Sample Name Instrument

Position

Operator

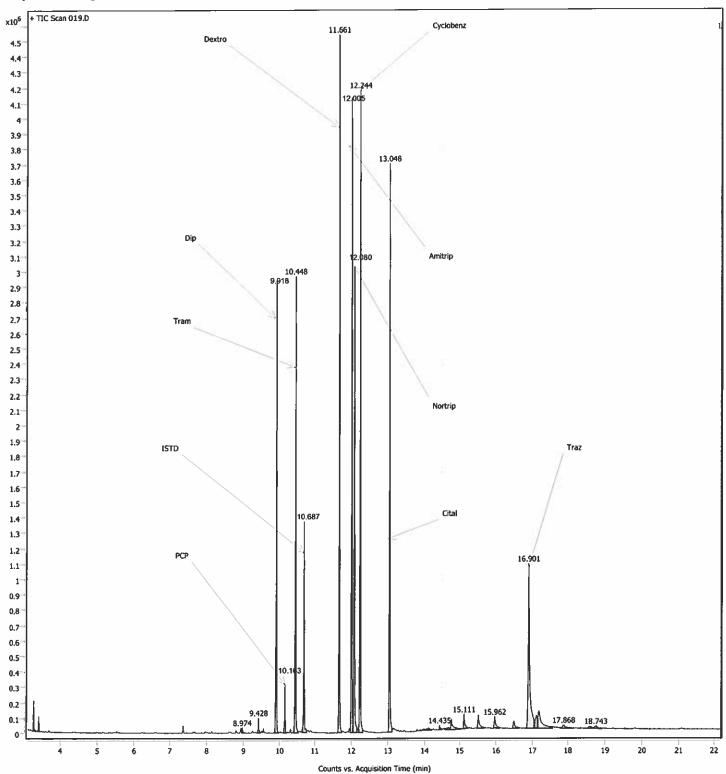
MATRIX 6 W/ SW CTL - URN

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

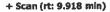
Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\019.D 9/28/2021 9:25:34 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

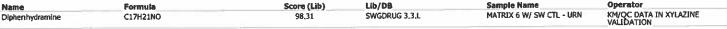


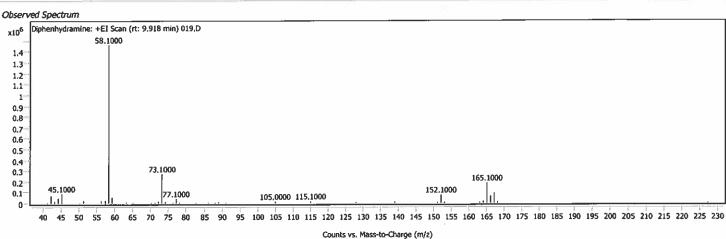


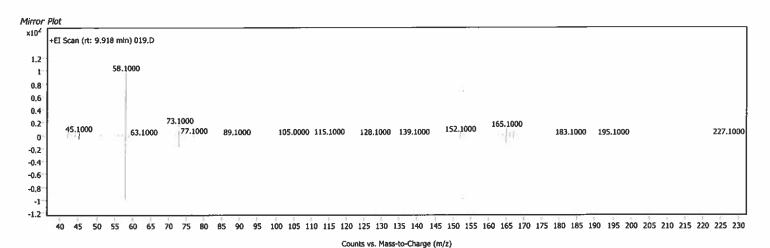
Sample Spectra

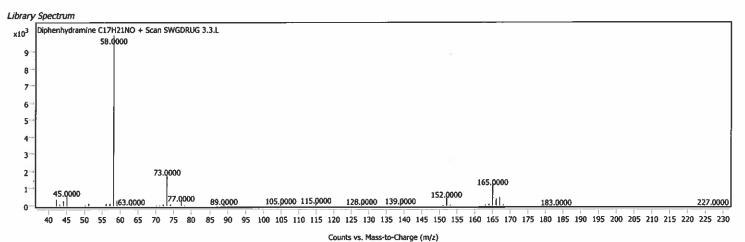


Diphenhydramine; C17H21NO





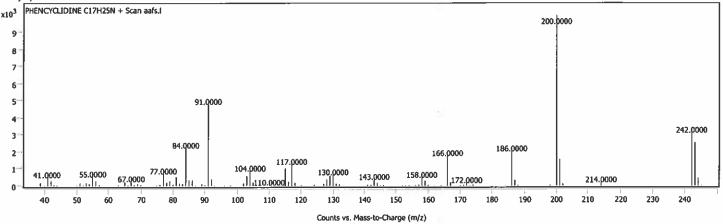




ounts vs. mass-to-Charge (m/z)



PHENCYCLIDINE; C17H25N + Scan (rt: 10.163 min) Sample Name Operator Formula Score (Lib) Lib/DB MATRIX 6 W/ SW CTL - URN KM/QC DATA IN XYLAZINE VALIDATION C17H25N PHENCYCLIDINE 98.50 aafs.l Observed Spectrum PHENCYCLIDINE: +EI Scan (rt: 10,163 min) 019.D x10⁴ 200.2000 7.5 7 6.5 6 5.5 4.5 4 3.5 3 2.5 2 242,2000 91.1000 186,2000 166,2000 84.1000 117.1000 41.1000 67.1000 77.0000 104,1000 55.0000 130,1000 143.1000 158,1000 214,2000 172.1000 100 110 120 190 200 210 220 230 240 40 60 70 80 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 10.163 min) 019.D 1.2 200.2000 0.8 0.6 242,2000 0.4 91.1000 186.2000 166.2000 0.2 84,1000 104.1000 117.1000 41.1000 130.1000 143,1000 55,0000 67.1000 172.1000 214,2000 0 -0.2 -0.4 -0.6 -0.8 -1,2 180 210 40 50 60 70 80 90 100 110 120 130 140 150 160 170 190 200 220 230 240 Counts vs. Mass-to-Charge (m/z) Library Spectrum PHENCYCLIDINE C17H25N + Scan aafs.I x10³

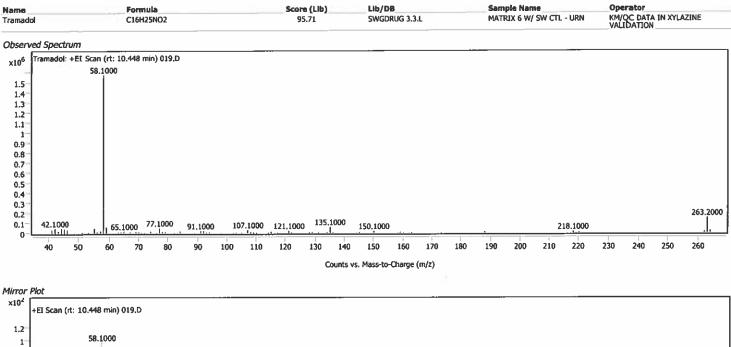


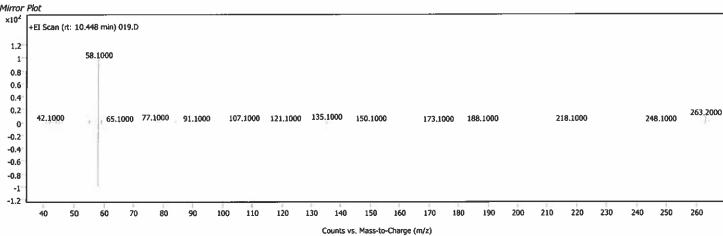
Tramadol; C16H25NO2

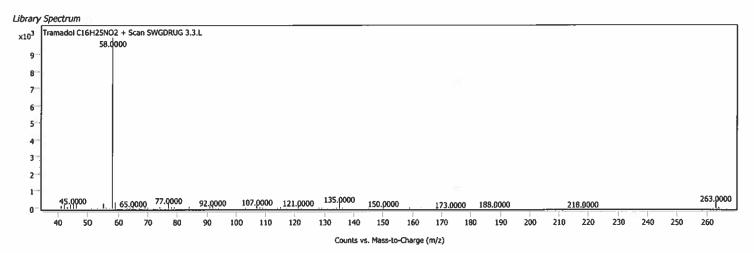
+ Scan (rt: 10.448 min)



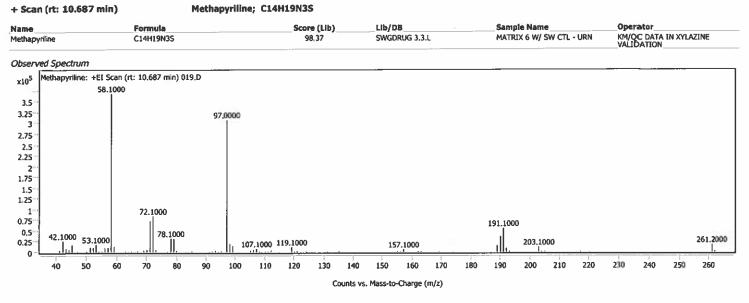


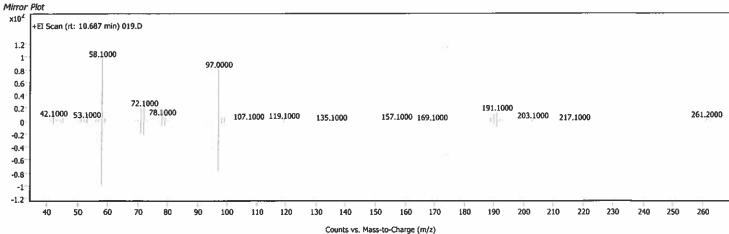


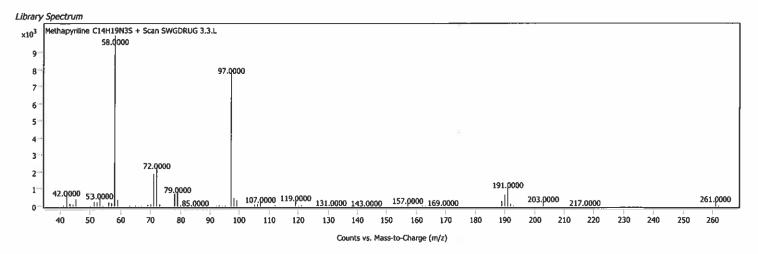














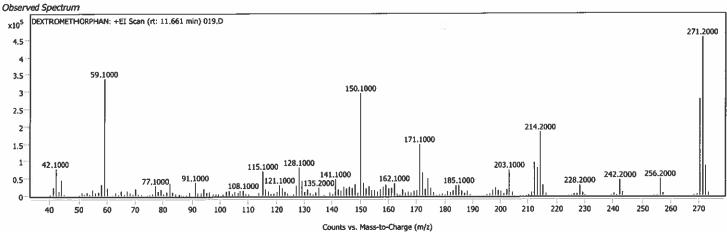
+ Scan (rt: 11.661 min)

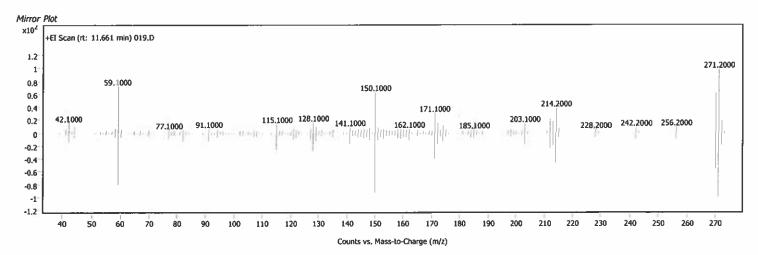
DEXTROMETHORPHAN; C18H25NO

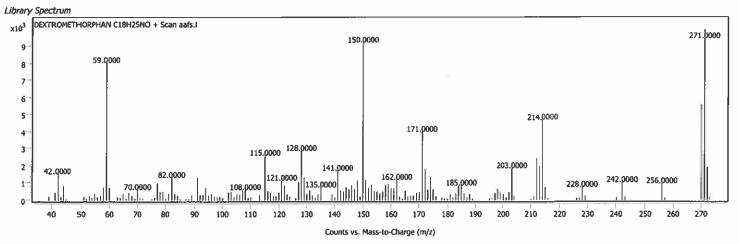
Name Formula Score (Lib) Lib/DB Sample Name Operator

DEXTROMETHORPHAN C18H25NO 92.32 aafs.I MATRIX 6 W/ SW CTL - URN KN/QC DATA IN XYLAZINE VALIDATION

Observed Spectrum







Amitriptyline; C20H23N

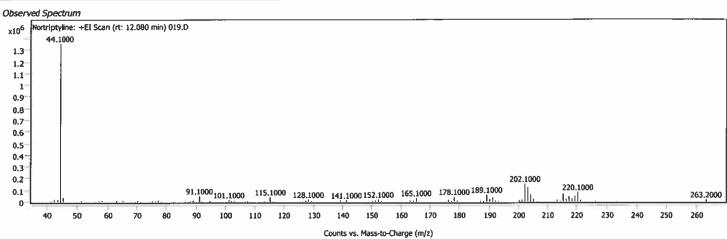


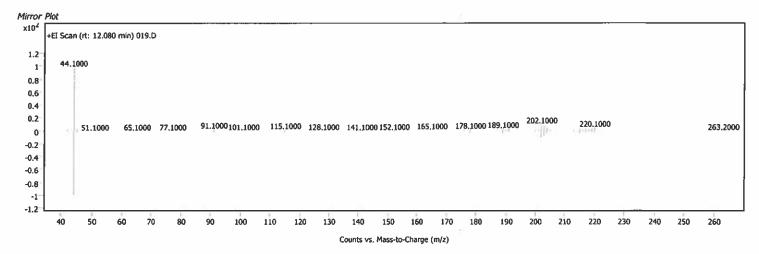
+ Scan (rt: 12.005 min) Formula Score (Llb) LIb/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION MATRIX 6 W/ SW CTL - URN SWGDRUG 3.3.L **Amitriptyline** C20H23N 98.02 Observed Spectrum x10⁶ Amitriptyline: +El Scan (rt: 12,005 min) 019,0 58,1000 2.6 2.4 2.2 2 1.8 1.6 1.4 1.2 1 8.0 0.6 0.4 202,1000 0.2 42.1000 178,1000 189,1000 215,1000 91.1000 115.1000 165.1000 200 210 220 230 70 90 100 110 140 150 160 170 180 190 40 50 60 80 120 130 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 12.005 min) 019.D 1.2 58.1000 8.0 0.6 0.4 0.2 42.1000 51.0000 202.1000 178,1000 189,1000 215,1000 226,1000 91.1000 101.1000 115.1000 128.1000 141.1000 152,1000 165.1000 63.1000 77,1000 0 -0.2 -0.4 -0.6 -0.8 -1.2 40 50 60 70 100 110 120 130 140 150 160 170 180 190 200 210 220 230 80 90 Counts vs. Mass-to-Charge (m/z) Library Spectrum Amitriptyline C20H23N + Scan SWGDRUG 3.3.L x10³ 58.dooo 8 6 5 4 3 2 1 202,0000 42.0000 _{51.0000} 178.0000 189.0000 215.0000 91.0000 101.0000 115,0000 128,0000 165.0000 141.0000 152.0000 170 40 50 60 70 80 90 100 110 120 130 140 150 160 180 190 200 210 220 230 Counts vs. Mass-to-Charge (m/z)

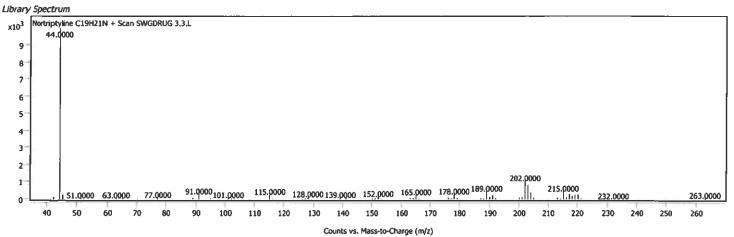




+ Scan (rt: 12.080 min) Nortriptyline; C19H21N Score (Llb) Lib/DB Sample Name Formula Name KM/QC DATA IN XYLAZINE VALIDATION C19H21N SWGDRUG 3.3.L MATRIX 6 W/ SW CTL - URN Nortriptyline





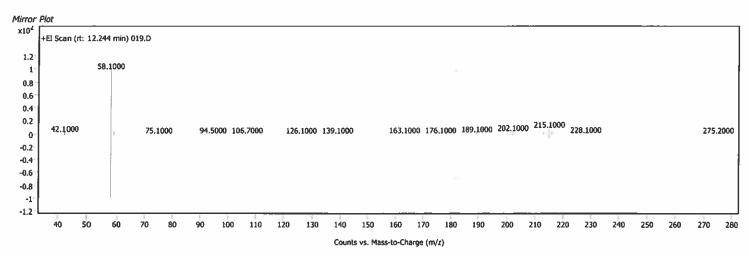


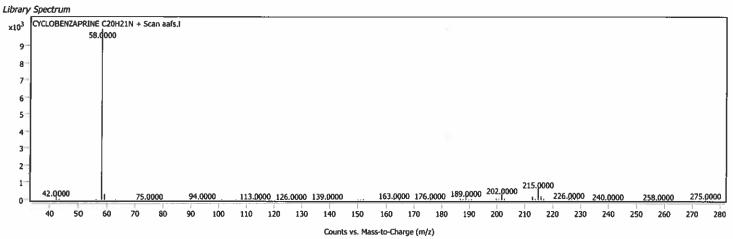
CYCLOBENZAPRINE; C20H21N

+ Scan (rt: 12.244 min)



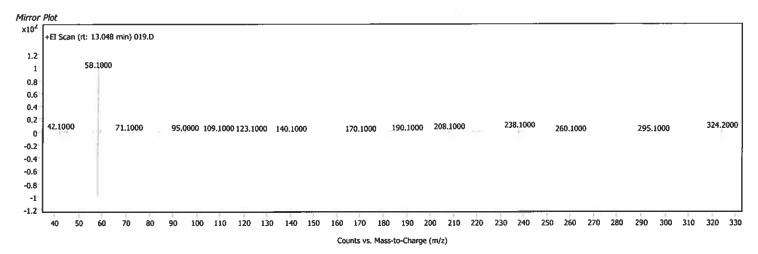
Formula Score (Llb) LIb/DB Name KM/QC DATA IN XYLAZINE VALIDATION CYCLOBENZAPRINE C20H21N aafs.l MATRIX 6 W/ SW CTL - URN Observed Spectrum CYCLOBENZAPRINE: +EI Scan (rt: 12,244 min) 019,D x10⁶ 58,1000 2.6 2.4 2,2 2 1.8 1.6 1.4 1.2 0.8 0.6 0.4 215.1000 189,1000 202,1000 0,2 42.1000 60 170 280 40 50 70 ล่ก 100 110 120 130 140 150 160 180 200 210 220 230 240 250 260 270 90 190 Counts vs. Mass-to-Charge (m/z)

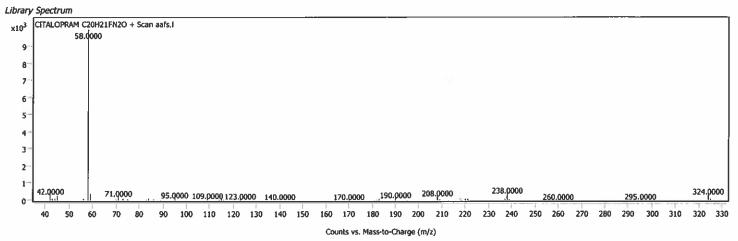






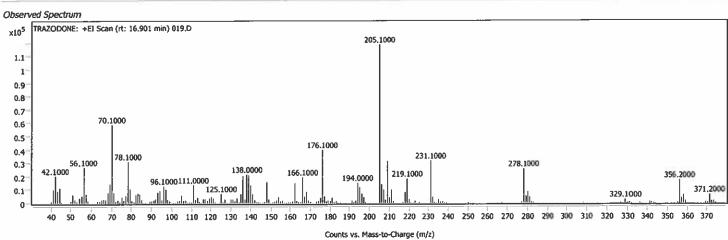
CITALOPRAM; C20H21FN2O + Scan (rt: 13.048 min) Formula Score (Lib) LIb/DB Sample Name Operator Name KM/QC DATA IN XYLAZINE VALIDATION MATRIX 6 W/ SW CTL - URN CITALOPRAM C20H21FN2O 96.72 aafs.l Observed Spectrum CITALOPRAM: +EI Scan (rt: 13,048 min) 019,D x10⁶ 58.1000 2 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 0.2 238,1000 324.2000 42.1000 208,1000 71.1000 190.1000 95.0000 109.1000 310 320 330 160 170 180 190 200 210 220 230 240 250 260 70 100 110 120 130 140 150 40 Counts vs. Mass-to-Charge (m/z)

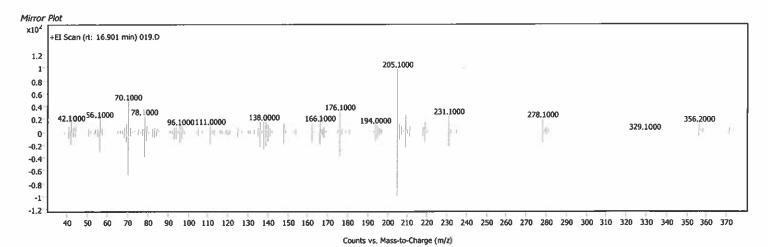


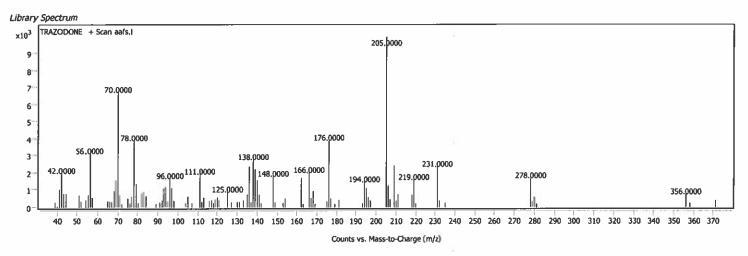












Injection Date:

9/28/2021

9:27:29 PM

Seq Line:

Vial 21

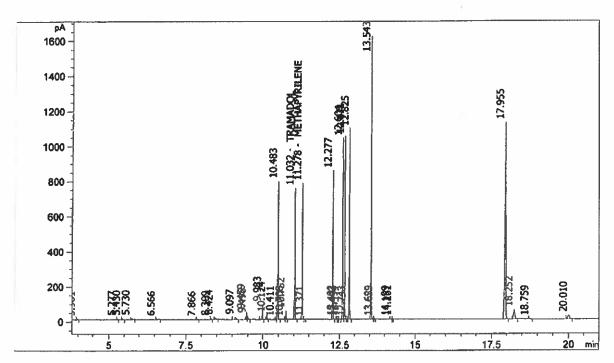
Sample Name: Sample Info:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 6 W/ SW CTL - ->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Ārea	Height	Amount mg/L	Compound
11.032 0.000 11.278	11.033 11.046 11.278	949.633 0.000 901.578	748.275 0.000 775.774	0.000000	TRAMADOL RRT-0.9782 XYLAZINE METHAPYRILENE



Sample Information

Sample Name Instrument

Position

Operator

MATRIX 10 W/ 0.01 mg/L CAL -LVR

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path

Acq. Time (Local)

Method Path (Acq)

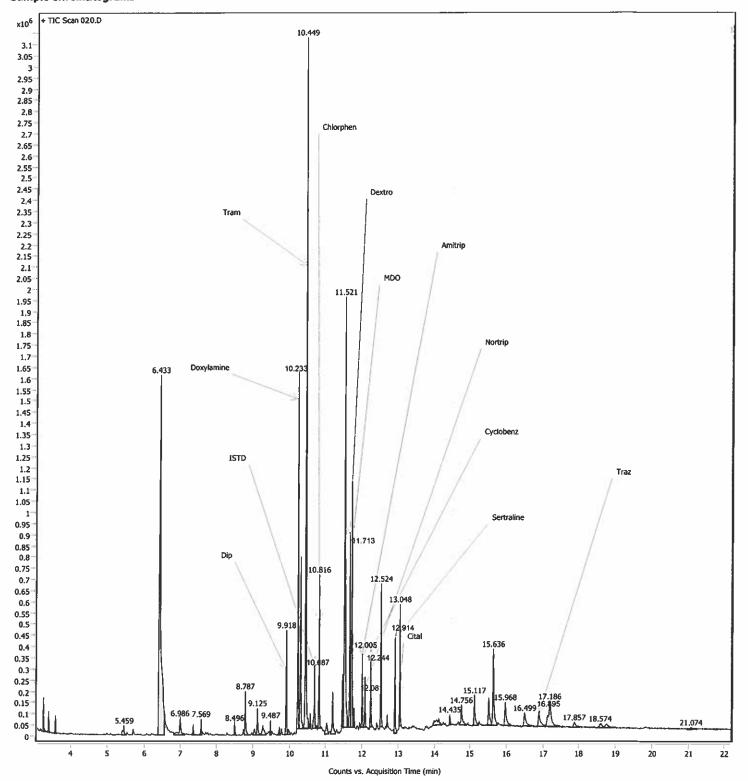
C:\MassHunter\GCMS\1\data\BASES\092821\020.D

9/28/2021 9:51:21 PM (UTC-04:00)

C:\MassHunter\GCMS\1\methods\ALKAL1.M

2.0 mg/1 - 400 at of 0.0 mg KM 4/17/23

Sample Chromatograms



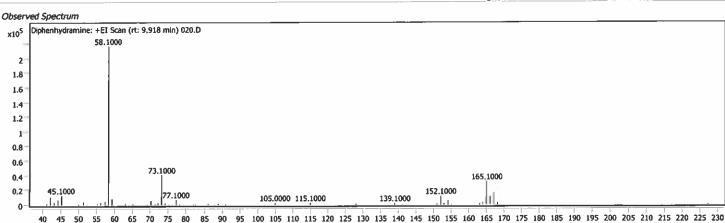


Sample Spectra

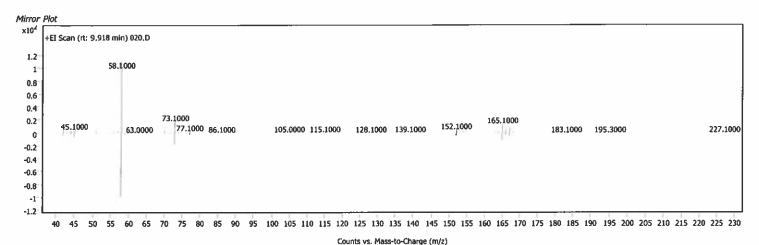


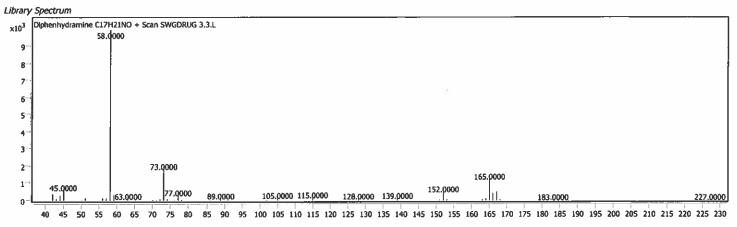
Diphenhydramine; C17H21NO





Counts vs. Mass-to-Charge (m/z)

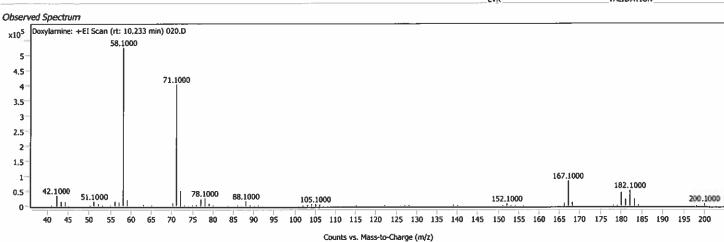


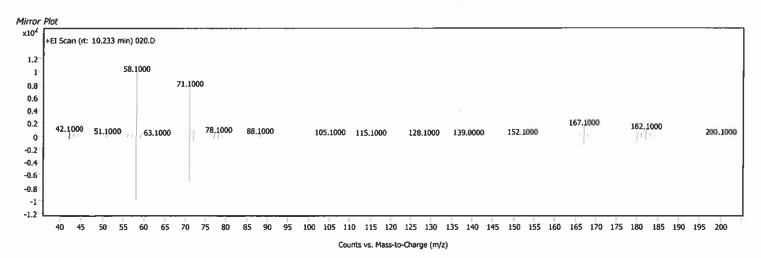


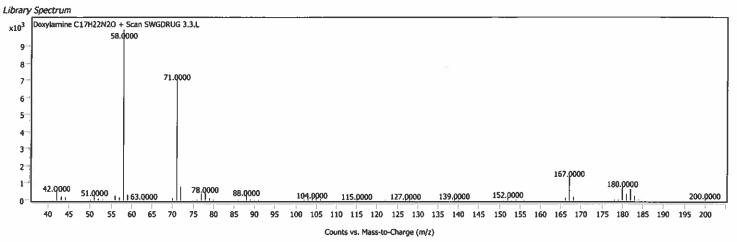
Counts vs. Mass-to-Charge (m/z)











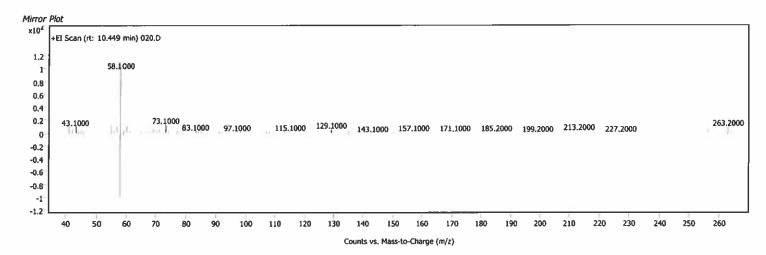
Tramadol; C16H25NO2

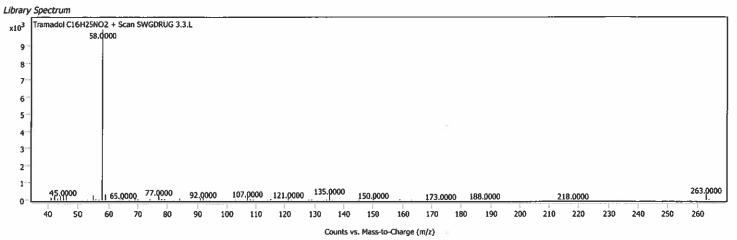
+ Scan (rt: 10.449 min)





Score (Lib) LIb/DB Sample Name Formula Name KM/QC DATA IN XYLAZINE VALIDATION MATRIX 10 W/ 0.01 mg/L CAL -LVR C16H25NO2 **SWGDRUG 3.3.L** Tramadol Observed Spectrum Tramadol: +EI Scan (rt: 10.449 min) 020.D x10⁵ 58,1000 9 8 7 6 5 4 3 2 73.1000 43.1000 263,2000 1 129,1000 143.1000 157.1000 171.1000 185.2000 256,3000 83.1000 115.1000 213.2000 97.1000 199.2000 200 210 220 230 240 250 40 50 60 100 110 120 130 140 150 170 180 190 260 Counts vs. Mass-to-Charge (m/z)

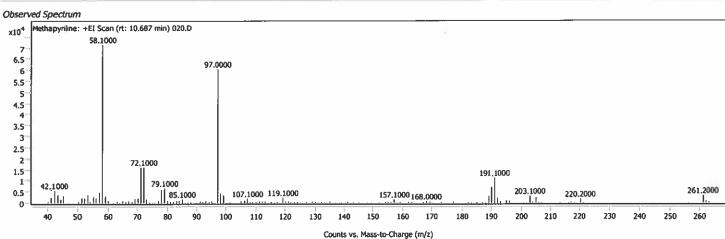


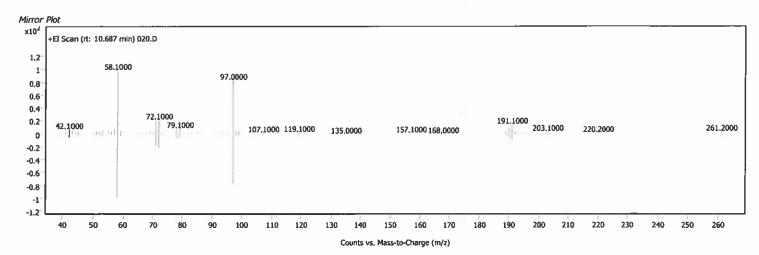


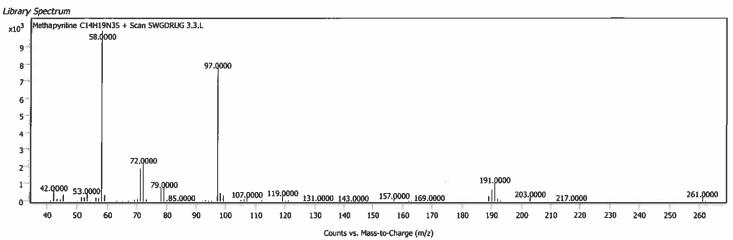










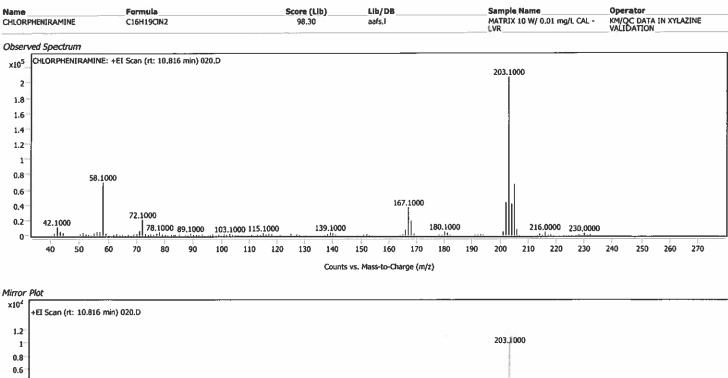


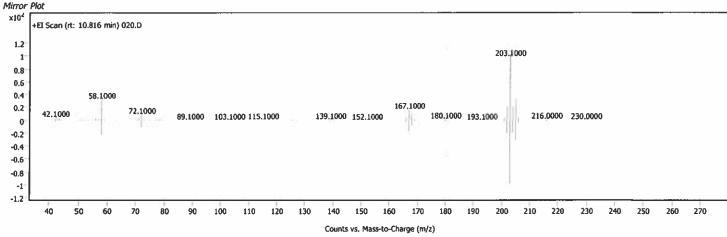
CHLORPHENIRAMINE; C16H19CIN2

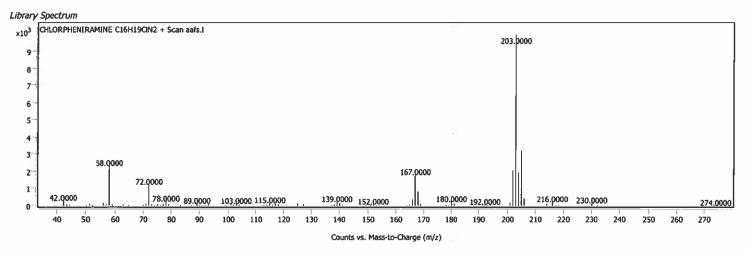
+ Scan (rt: 10.816 min)











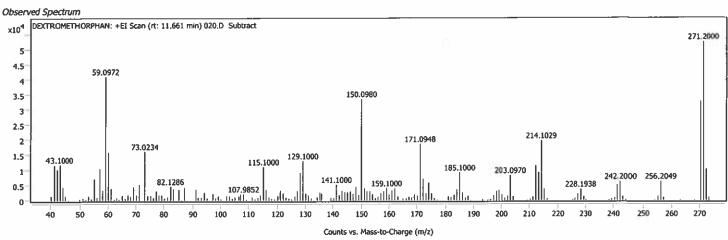


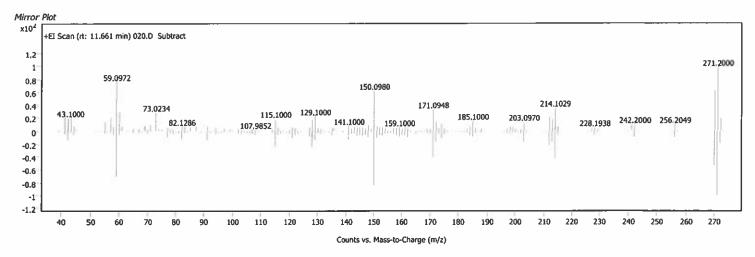


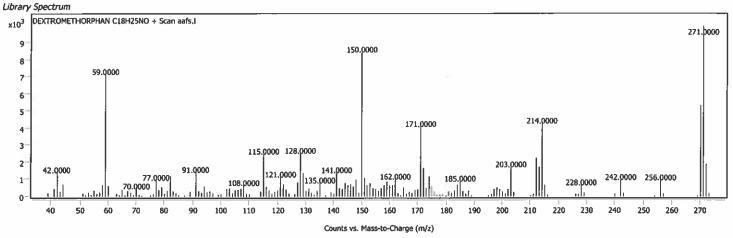
+ Scan (rt: 11.661 min) Sub DEXTROMETHORPHAN; C18H25NO

 Name
 Formula
 Score (Lib)
 Lib/DB
 Sample Name
 Operator

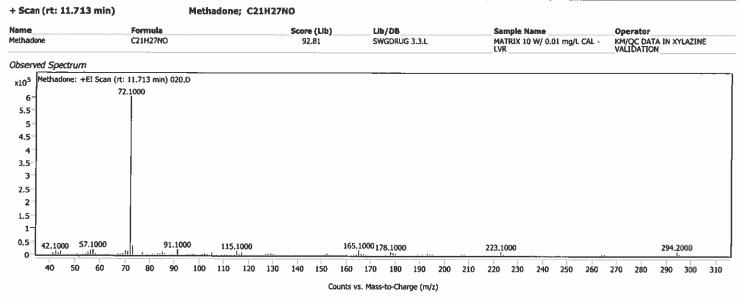
 DEXTROMETHORPHAN
 C18H25NO
 83.26
 aafs.I
 MATRIX 10 W/ 0.01 mg/L CAL -LVR
 KM/QC DATA IN XYLAZINE VALIDATION

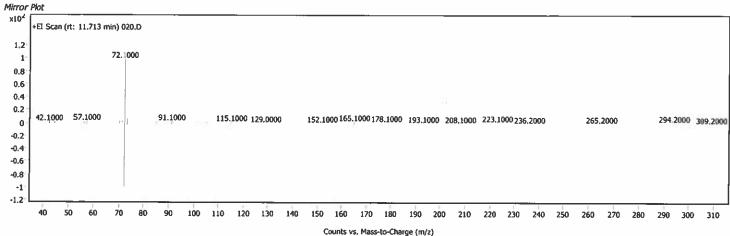


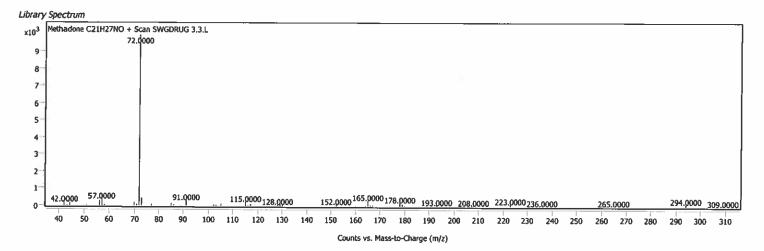






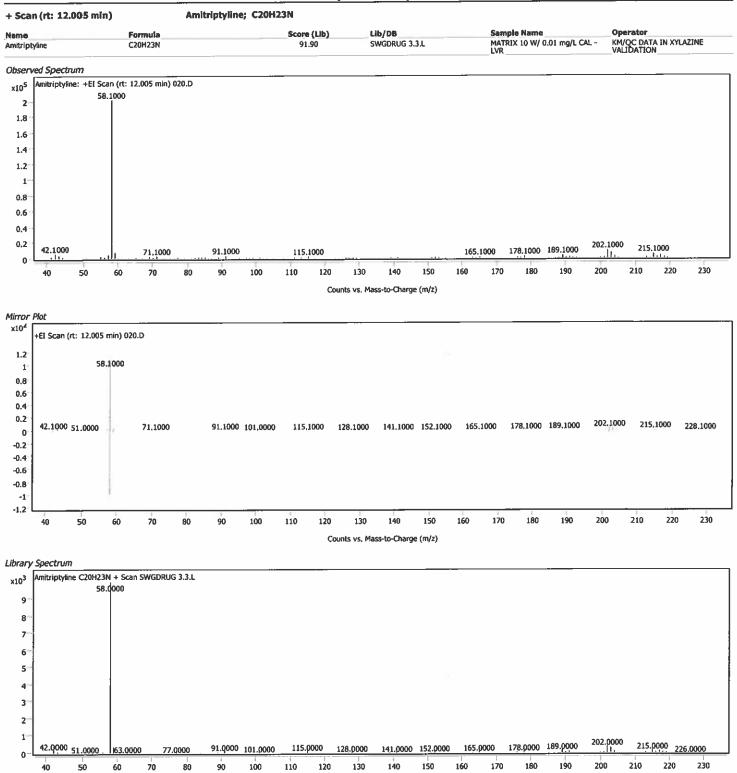










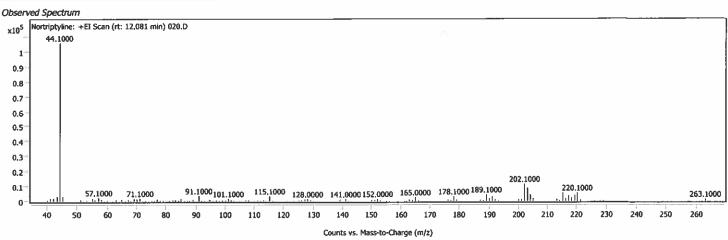


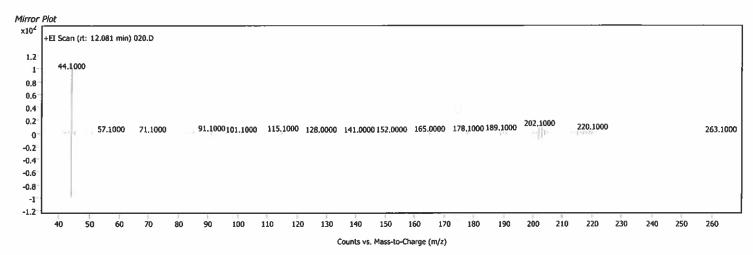
Counts vs. Mass-to-Charge (m/z)

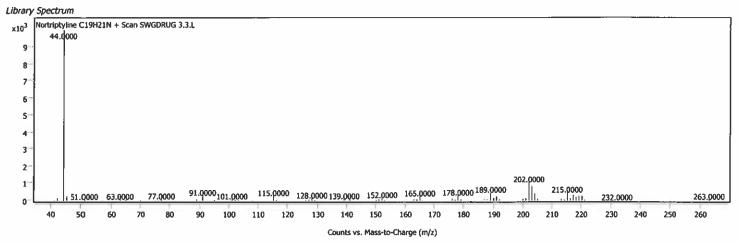




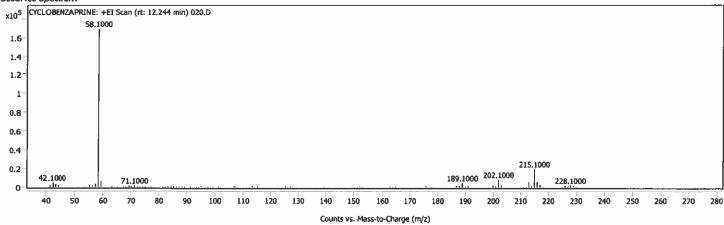


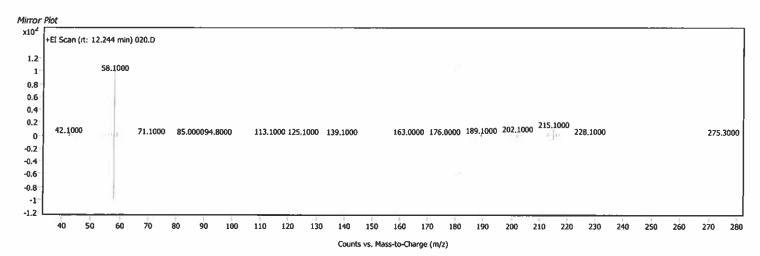


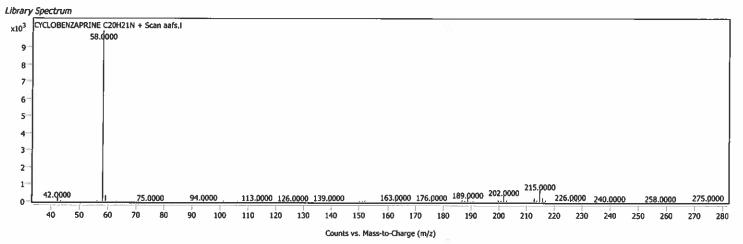






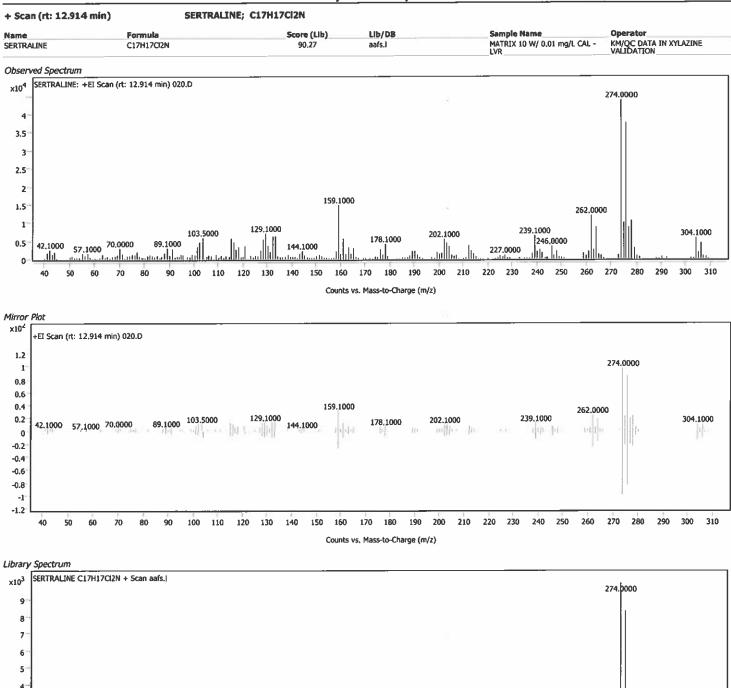












159,0000

178.0000

Counts vs. Mass-to-Charge (m/z)

133,0000

130 140 150 160 170 180

144,0000

104,0000

110

3

2

1

42,0000

70.Q000

304.0000

262.0000

260

239,0000

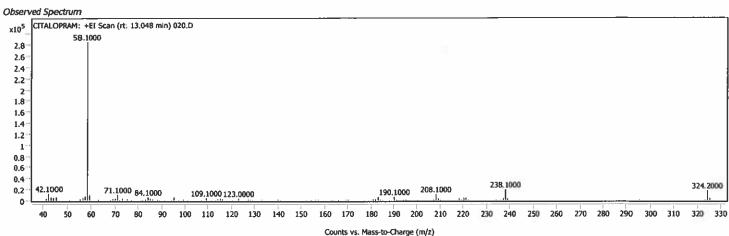
227.0000 220 230 246.0000

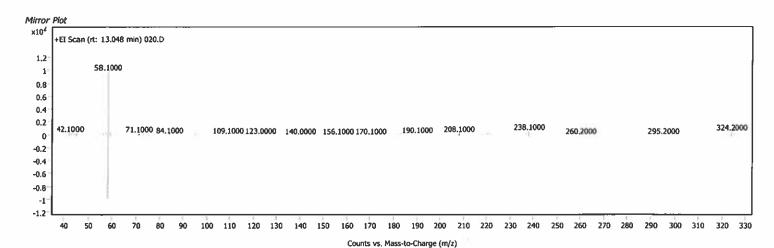
202.0000

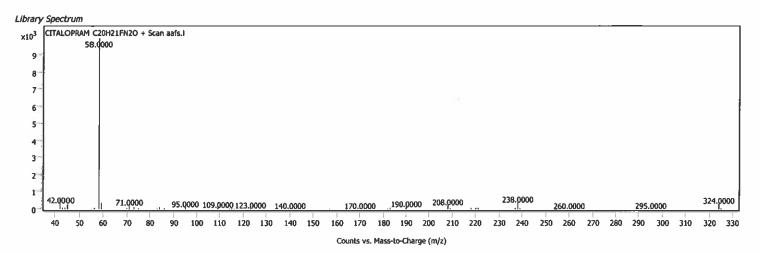






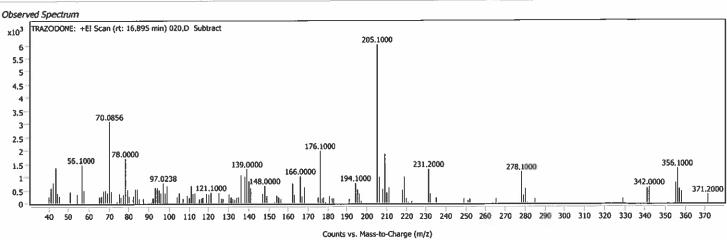


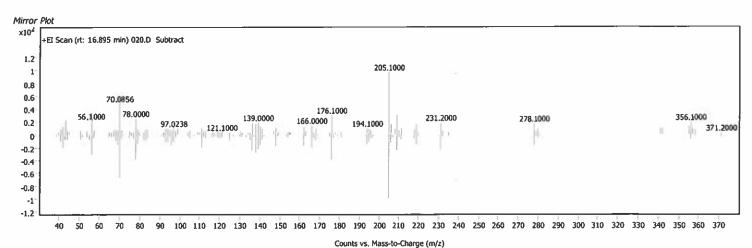


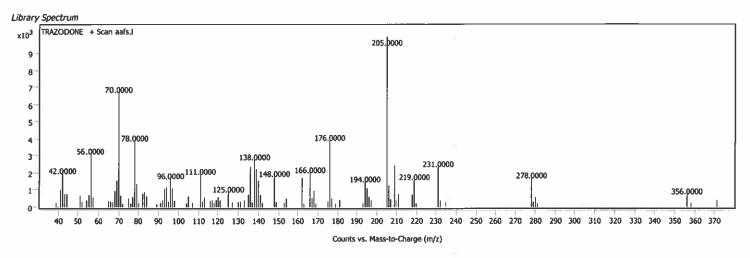












31

Injection Date:

9/29/2021

1:55:08 AM

Seq Line:

Vial 32

Sample Name: Sample Info:

MATRIX 10 W/ 0.1mg/L ->

cal + xylazine

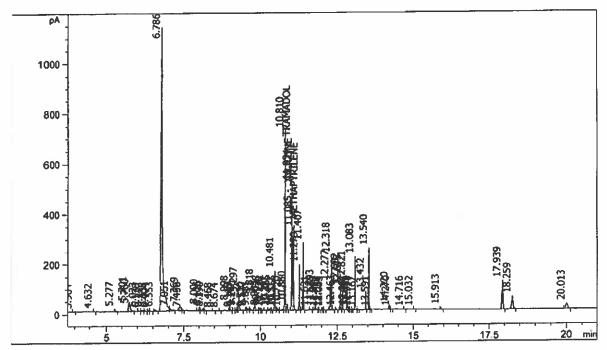
KM 11/17/22

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

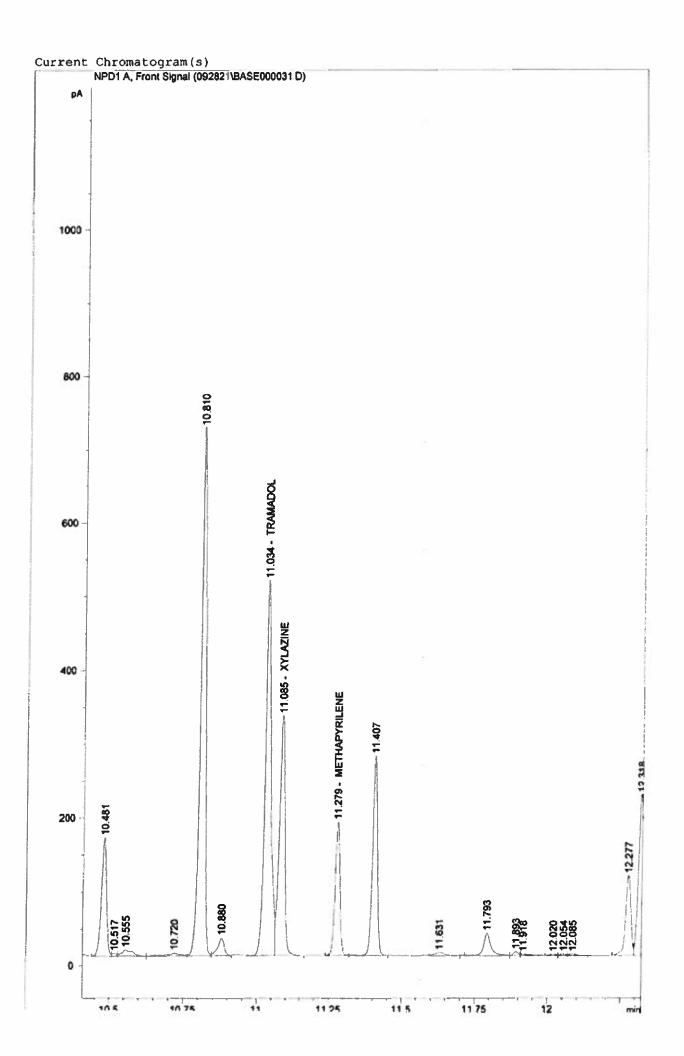
KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.034	11.033	717.094	508.150	0.000000	TRAMADOL RRT-0.9783
11.085	11.046	429.555	324.796		XYLAZINE RRT-0.9828
11.279	11.278	207.807	180.817		METHAPYRILENE

LVR not used in avg of RRTs



Injection Date: 9/29/2021

2:19:25 AM

Seq Line:

32 Vial 33

Sample Info:

Acq. Method:

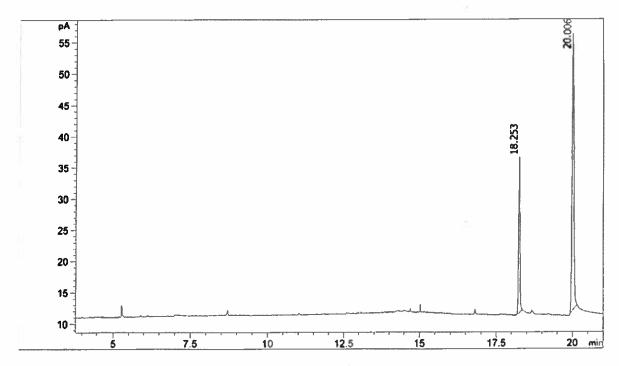
Sample Name:

SOLVENT BLANK 2

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT	Amount			
(min)	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE



Sample Name Instrument

Position

Operator

MATRIX 2 W/ IH CTL - BLD

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

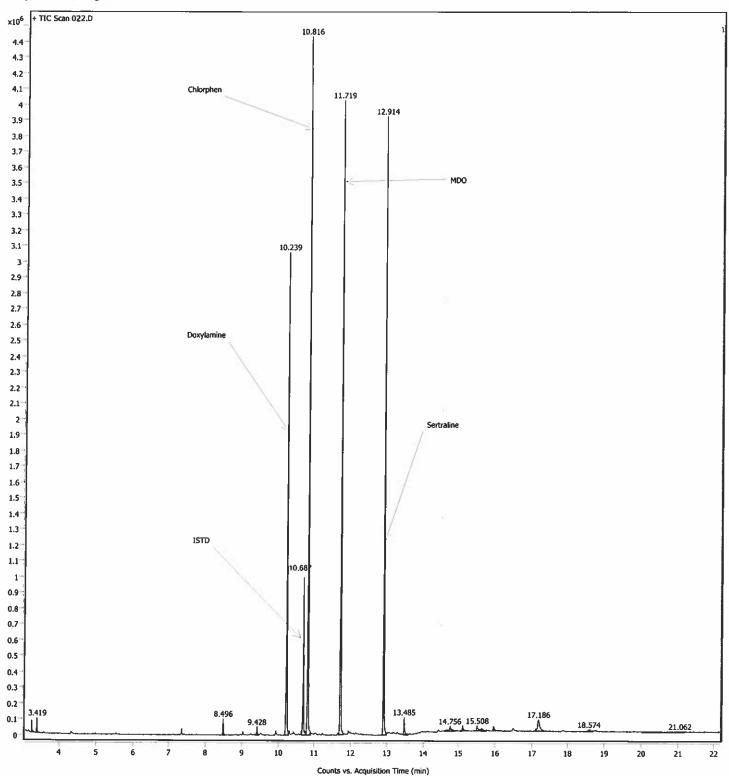
Data File Path Acq. Time (Local)

Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\022.D 9/28/2021 11:08:49 PM (UTC-04:00)

Sample Chromatograms

Sample Information

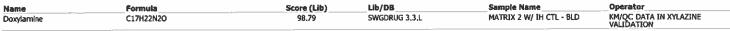


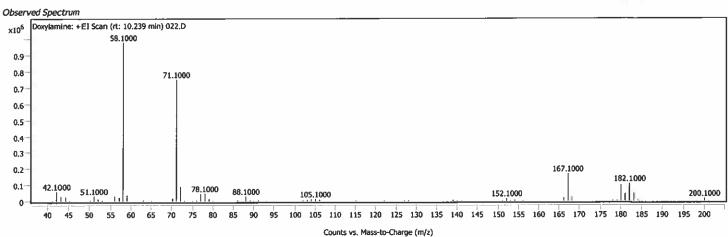


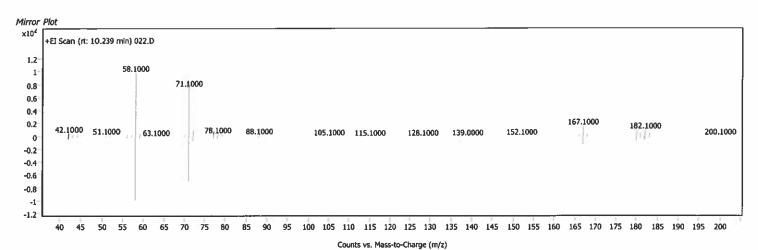


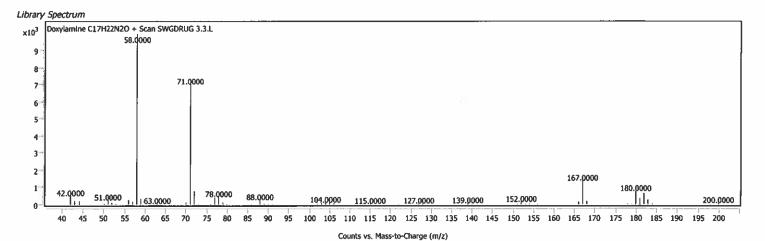


Doxylamine; C17H22N2O



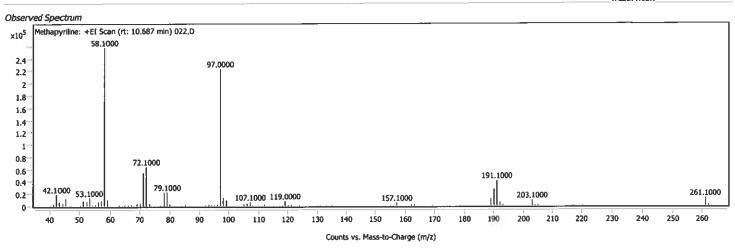


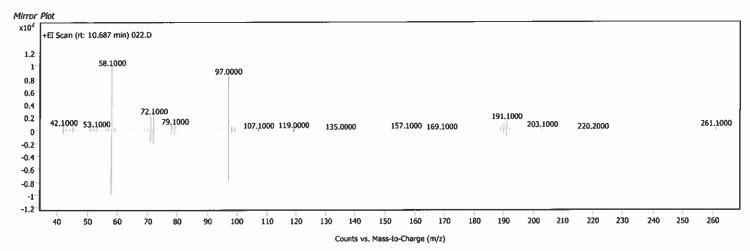


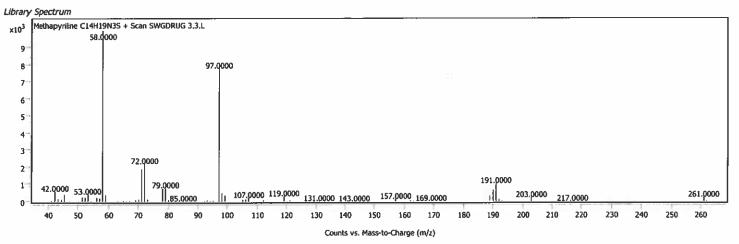








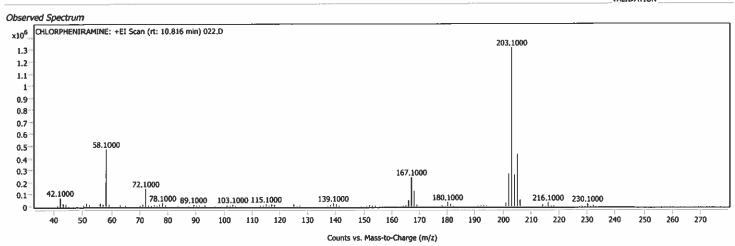


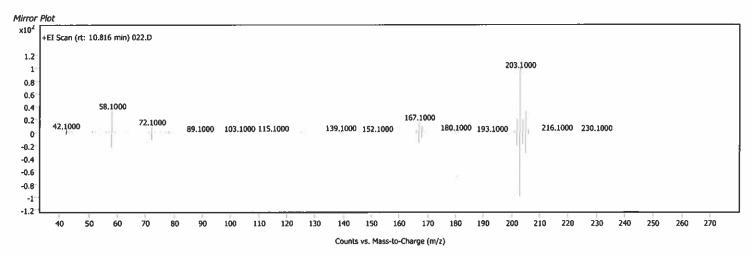


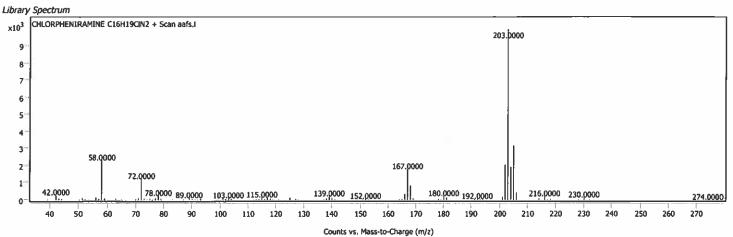






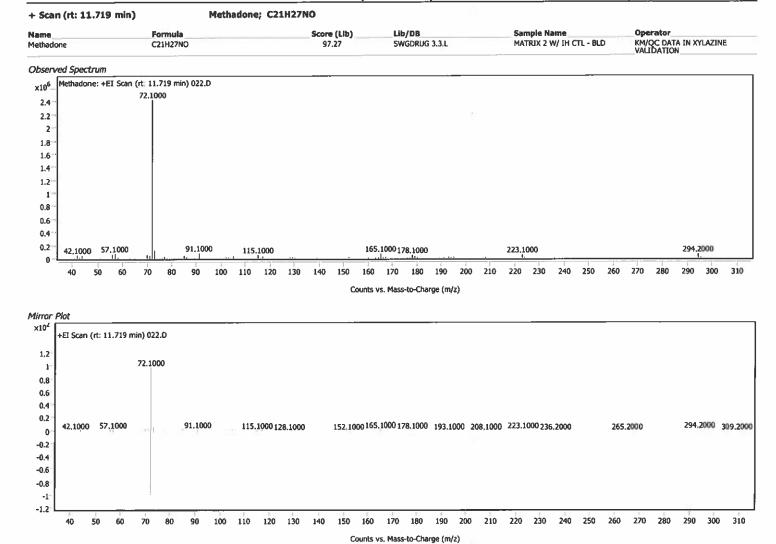


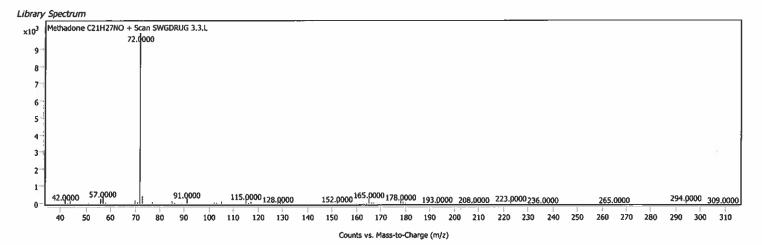






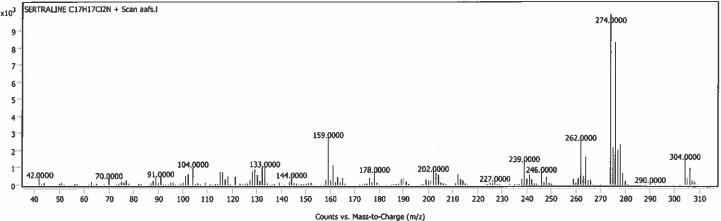








SERTRALINE; C17H17Cl2N + Scan (rt: 12.914 min) Score (Lib) LIb/DB Sample Name Formula Name KM/QC DATA IN XYLAZINE VALIDATION SERTRALINE C17H17Cl2N 91.98 aafs.l MATRIX 2 W/ IH CTL - BLD Observed Spectrum SERTRALINE: +EI Scan (rt: 12.914 min) 022,D x10⁵ 274.1000 3.5 3 2.5 2 159,1000 1.5 262,0000 1 132,1000 103.6000 239,1000 304.1000 202,1000 178,1000 0,5 89.1000 246.0000 42,1000 70.1000 144,1000 189.1000 227.1000 280 130 150 160 200 210 220 230 240 250 260 270 290 300 310 100 110 120 140 170 190 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 +EI Scan (rt: 12.914 min) 022.D 1.2 274,1000 1 0.8 0,6 159,1000 0.4 262.0000 89,1000 103,6000 239,1000 0,2 304,1000 178.1000 202.1000 70.1000 all or lateral latera 151.1000 111 14 0 -0.2 -0.4 -0.6 -0.8 -1 -1,2 250 260 270 280 310 40 50 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 290 300 Counts vs. Mass-to-Charge (m/z) Library Spectrum SERTRALINE C17H17Cl2N + Scan aafs.I x10³ 274.0000



Injection Date: Sample Name: 9/28/2021

11:04:42 PM

Seq Line:

24 Vial 25

Sample Info:

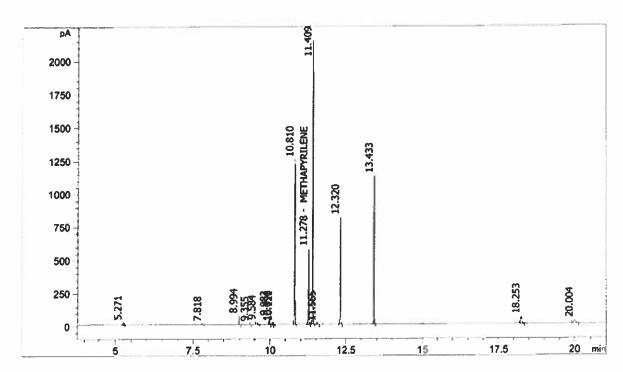
Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX 2 W/ IH CTL - ->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT	Exp RT			Amount	
[min]	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
11.278	11.278	654.601	569.257	1.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 1 W/ IH CTL - BLD

KM/QC DATA IN XYLAZINE VALIDATION

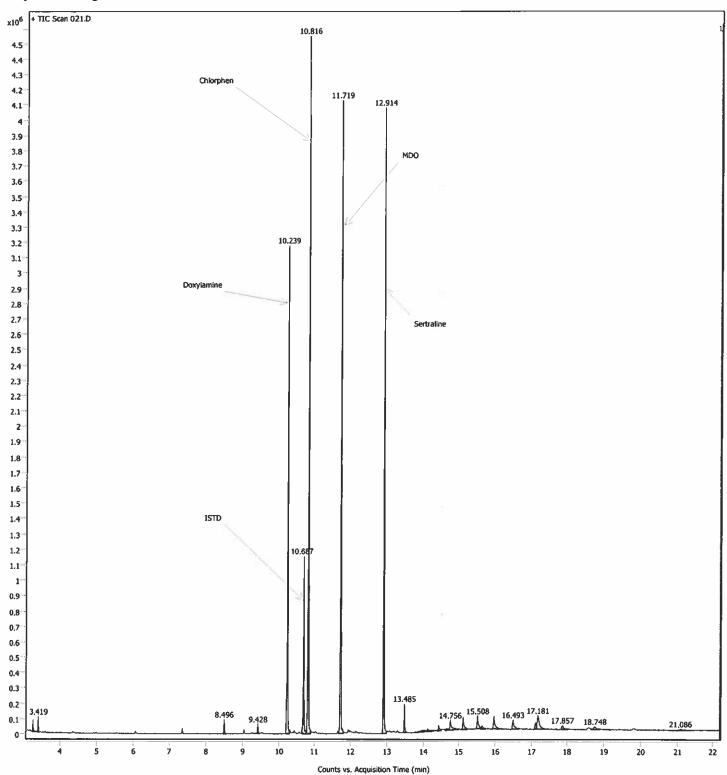
#3 - Enhanced

Acq. Time (Local) Method Path (Acq)

Data File Path

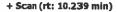
C:\MassHunter\GCMS\1\data\8ASES\092821\021.D 9/28/2021 10:43:02 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



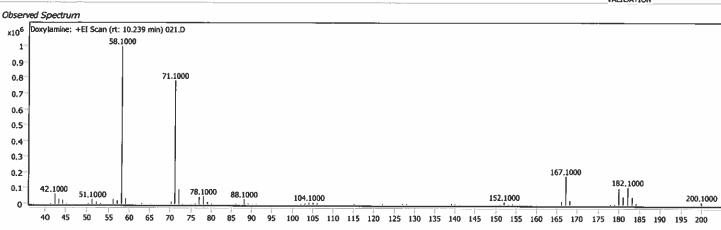


Sample Spectra

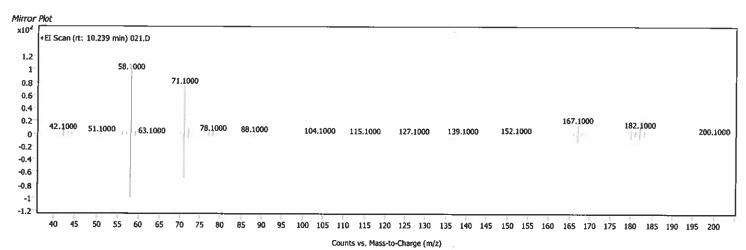


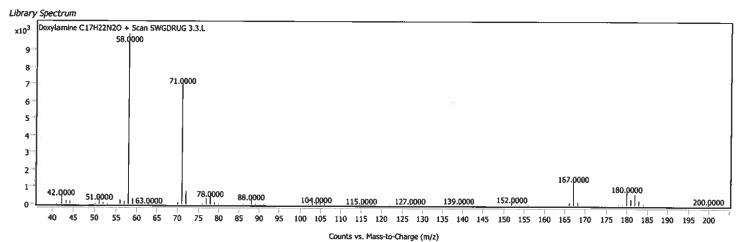
Doxylamine; C17H22N2O





Counts vs. Mass-to-Charge (m/z)







+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Name Formula Score (Llb) LIb/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S SWGDRUG 3.3.L MATRIX 1 W/ IH CTL - BLD Observed Spectrum Methapyriline: +EI Scan (rt: 10.687 min) 021.D x10⁵ 2.8 97.0000 2.6 2.4 2.2 1.8 1.6 1.4 1.2 0,8 72,1000 0.6 191.1000 42,1000 53,1000 0.4 78.1000 0.2 107.1000 119.1000 203,1000 261.1000 157,1000 40 50 60 70 80 90 100 120 110 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 10.687 min) 021.D 1.2 58.1,000 97.0000 0.8 0.6 0.4 72.1000 0.2 191.1000 42.1000 53.1000 78.1000 107.1000 119.1000 157.1000 169.1000 203.1000 261,1000 135,0000 220.1000 0 -0.2 -0.4-0.6 -0.8 -1 -1.2 40 50 60 70 100 120 110 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³ 58.0000 8 97.0000 7 6 5 4 3 72,0000 2 191,0000 42.0000 53.0000 79,0000

107.0000 119.0000

140

Counts vs. Mass-to-Charge (m/z)

110

100

40

50

60

70

261.0000

260

203,0000

200

180

190

217.0000

220

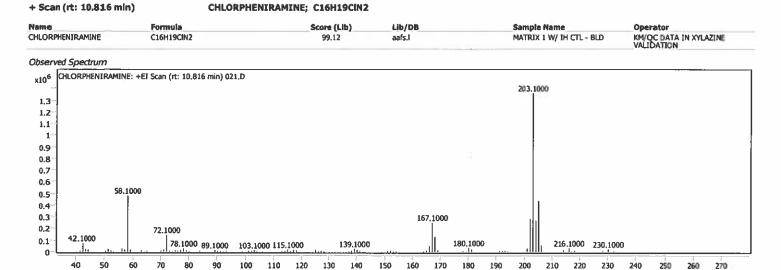
230

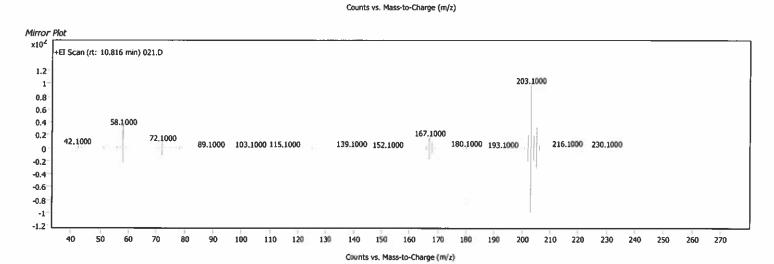
240

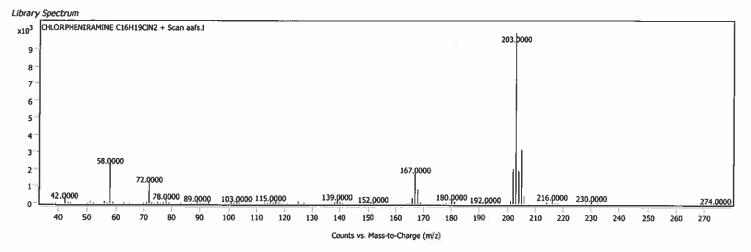
250













+ Scan (rt: 11.719 min) Methadone; C21H27NO Name Formula Score (Lib) Lib/DB Sample Name Operator Methadone C21H27NO KM/QC DATA IN XYLAZINE VALIDATION **SWGDRUG 3.3.L** MATRIX 1 W/ IH CTL - BLD Observed Spectrum Methadone: +El Scan (rt. 11,719 min) 021,D x10⁶ 72,1000 2.2 1.8 1.6 1.4 1.2 0.8 0.6 0,4 0.2 42.1000 57.1000 91.1000 115,1000 165,1000 178,1000 223.1000 294.2000 110 120 130 140 180 190 220 230 240 250 260 290 300 310 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 11.719 min) 021.D 1.2 72.1000 1 0.8 0.6 0.4 0.2 42,1000 57,1000 91,1000 294.2000 309.2000 115,1000 129,1000 152,1000 165,1000 178,1000 193,1000 208,1000 223,1000 236,1000 265.2000 0 -0.2 -0.4 -0.6 -0.8 -1 40 50 70 80 100 110 120 130 140 150 170 180 280 290 300 310 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methadone C21H27NO + Scan SWGDRUG 3.3.L x10³ 72,0000 8

 $152.0000 \\ 165.0000 \\ 178.0000 \\ 193.0000 \\ 208.0000 \\ 223.0000 \\ 236.0000$

200 210 220 230 240 250

160 170 180 190

Counts vs. Mass-to-Charge (m/z)

57,9000

42.0000

40 50 60 70

91.Q000

80 90

100

115.0000 128.0000

110 120 130 140

150

294.0000 309.0000

265.0000

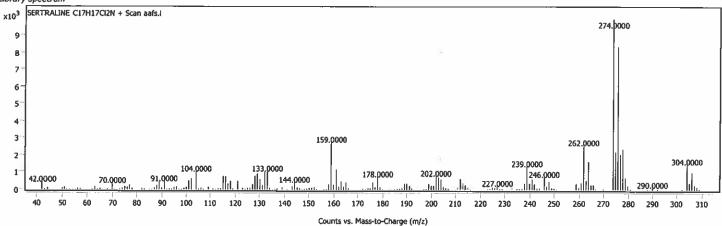
270 280

SERTRALINE; C17H17Cl2N

+ Scan (rt: 12,914 min)



Name Formula Score (LIb) Lib/DB Sample Name SERTRALINE C17H17Cl2N 92.28 aafs.l MATRIX 1 W/ IH CTL - BLD KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum SERTRALINE: +EI Scan (rt: 12.914 min) 021.D x10⁵ 274.1000 3.5 3 2.5 2 159.1000 1.5 262.0000 1 103.6000 132,1000 239,1000 304,1000 178.1000 202.1000 0.5 89,1000 144,1000 246.0000 42.1000 70.1000 189.1000 130 140 150 160 180 190 200 210 220 230 240 250 260 270 280 290 300 310 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 FEI Scan (rt: 12.914 min) 021,D 1.2 274.1000 0,8 0.6 0.4 159,1000 262,0000 89.1000 103.6000 0.2 132,1000 239.1000 178,1000 202,1000 304.1000 70,1000 151,0000 11 1 - - 1 11 10-14 0 -0.2 -0.4-0.6 -0.8 -1 40 110 120 130 140 150 300 310 Counts vs. Mass-to-Charge (m/z) Library Spectrum



Injection Date:

9/28/2021

10:40:26 PM

Seg Line:

Vial 24

Sample Name:

MATRIX 1 W/ IH CTL - ->

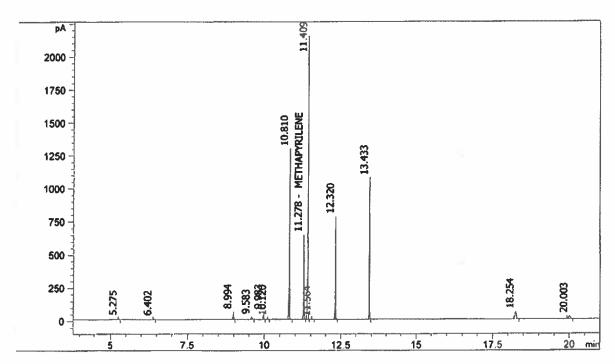
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



-	RT ain] Area	Height	Amount mg/L	Compound
0.000 11.0 0.000 11.0 11.278 11.2	46 0.000	0.000 0.000 639.091	0.000000	TRAMADOL XYLAZINE METHAPYRILENE



Sample Information

Sample Name Instrument

Position

Operator

MATRIX 6 W/ IH CTL - URN

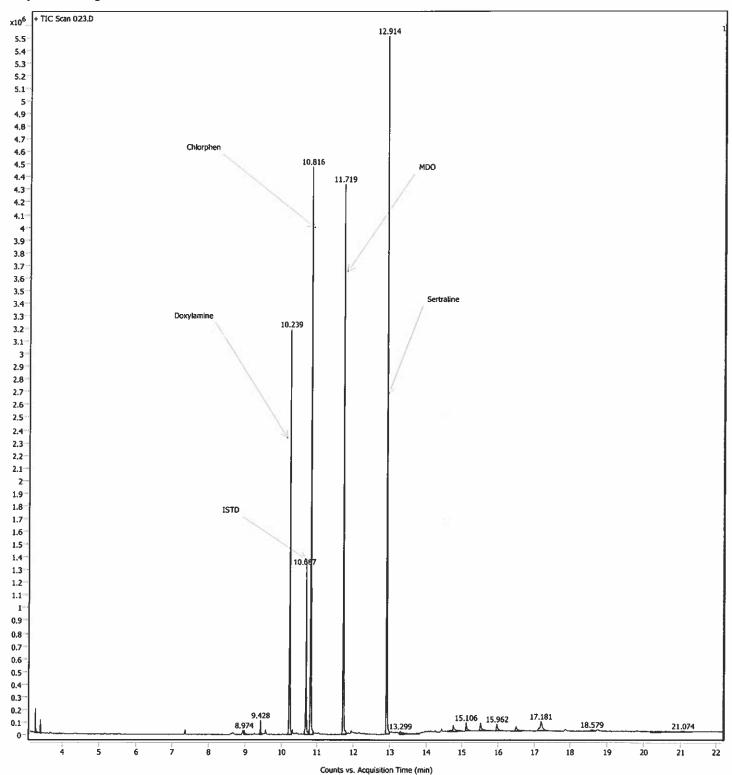
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\023.D 9/28/2021 11:34:42 PM (UTC-04:00)

C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms





182,1000

167,1000

152,1000

200.1000

Sample Spectra

0.6 0.5 0.4 0.3

0.2

0.1

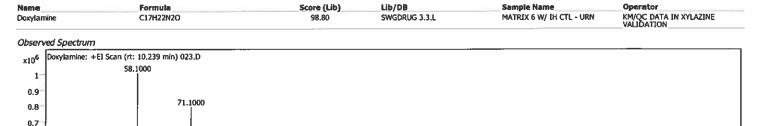
51.1000

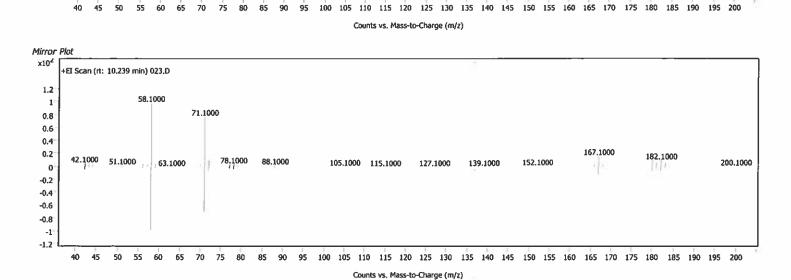


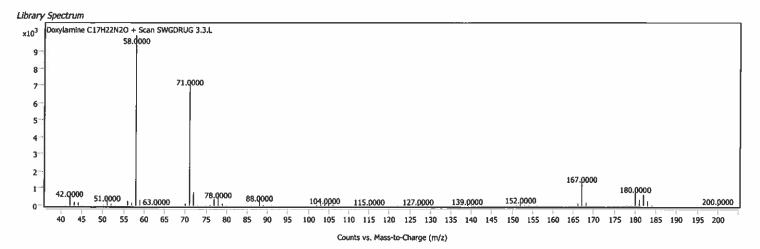
Doxylamine; C17H22N2O

88.1000

105,1000





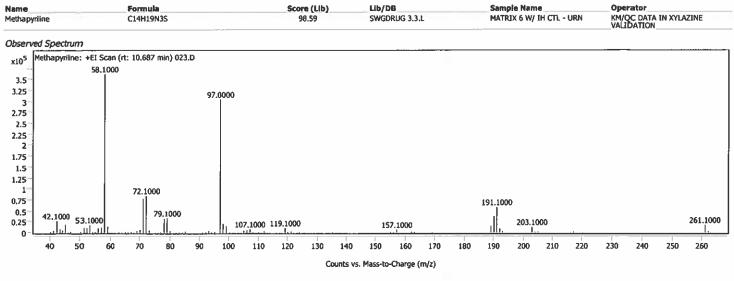


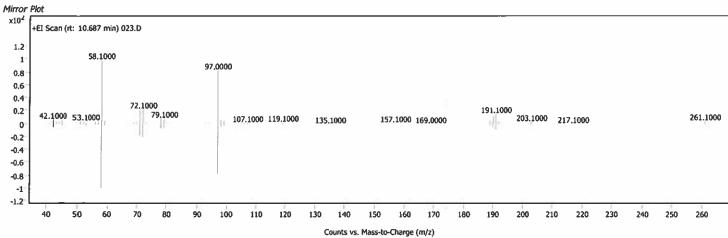
Methapyriline; C14H19N3S

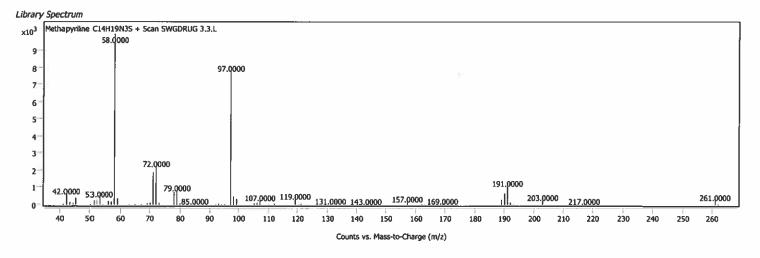
+ Scan (rt: 10.687 min)





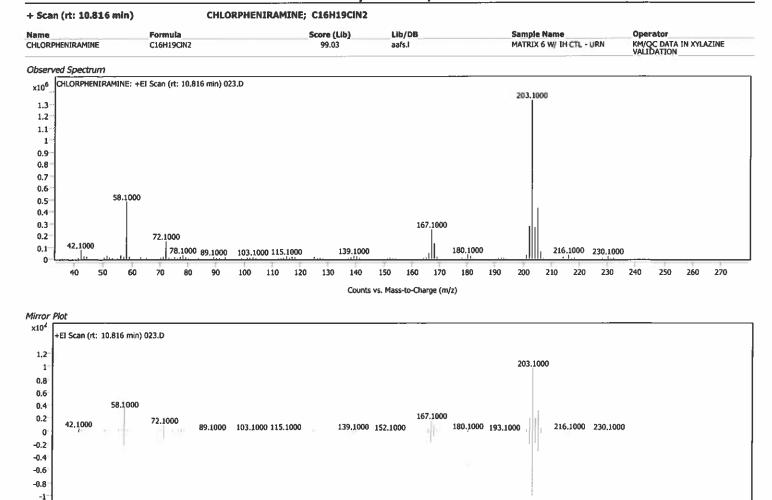


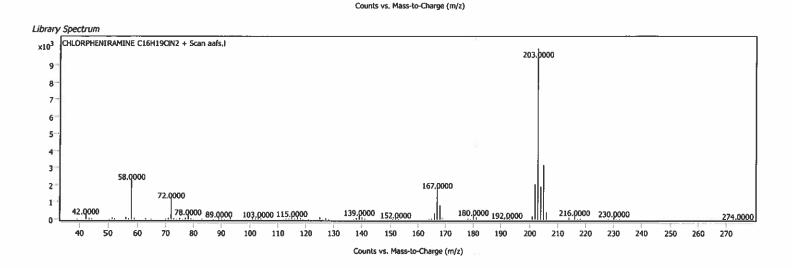






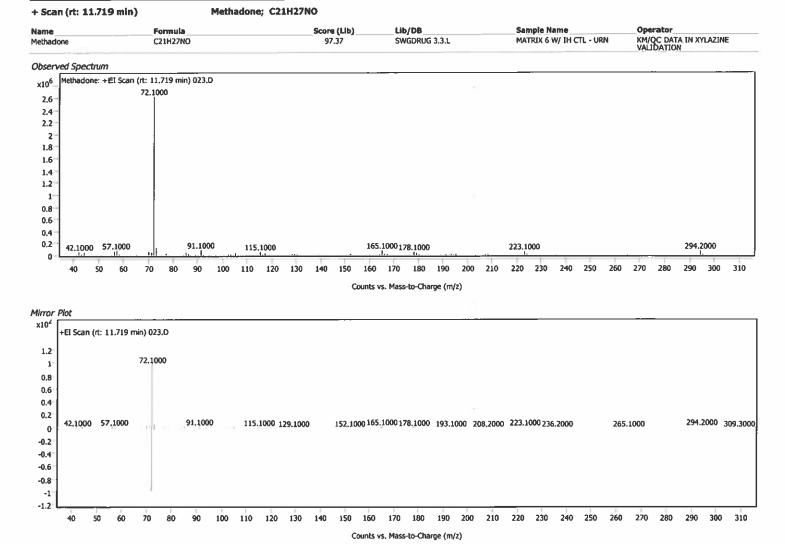


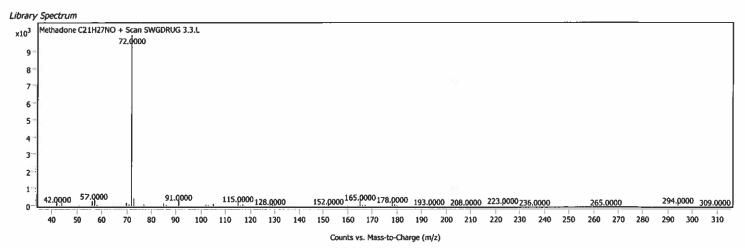








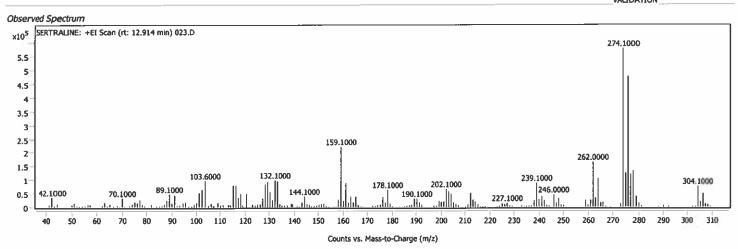


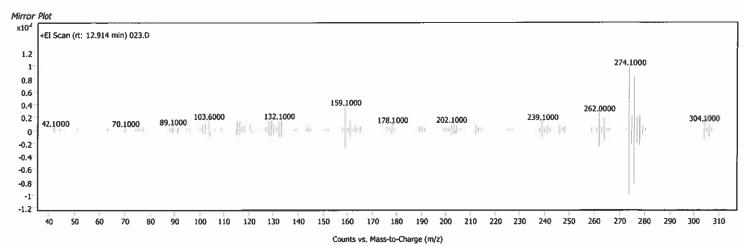


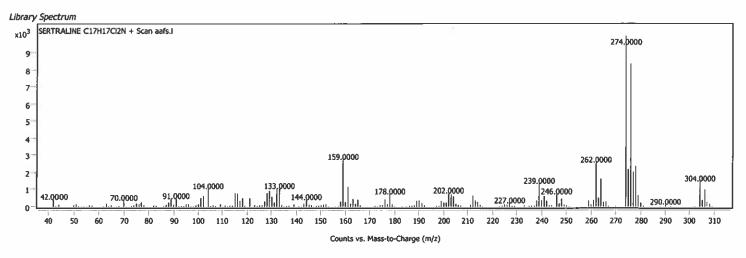












Injection Date:

9/28/2021

11:29:06 PM MATRIX 6 W/ IH CTL - ->

Seq Line:

25 Vial 26

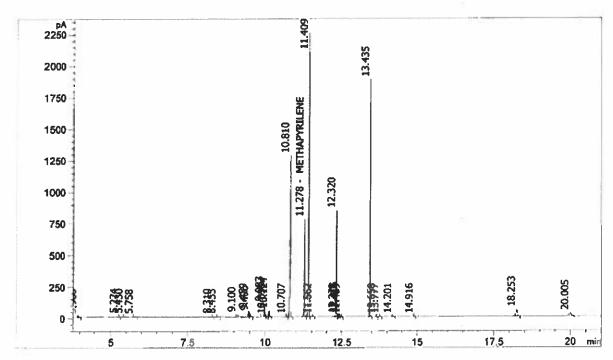
Sample Name: Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000 11.033	0.000	0.000	0.000000	TRAMADOL
0.000 11.046	0.000	0.000		XYLAZINE
11.278 11.278	913.743	769.209		METHAPYRILENE





Sample Information

Operator

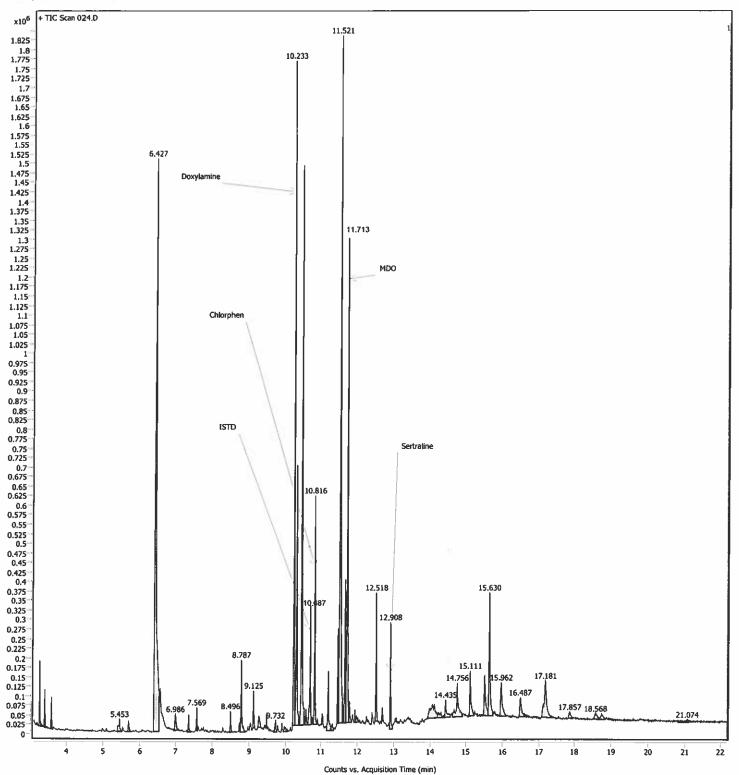
Sample Name MATRIX 10 W/ IH CTL - LVR

Instrument Position

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\024.D 9/29/2021 12:00:30 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms

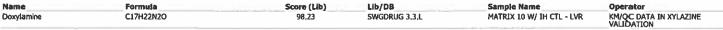


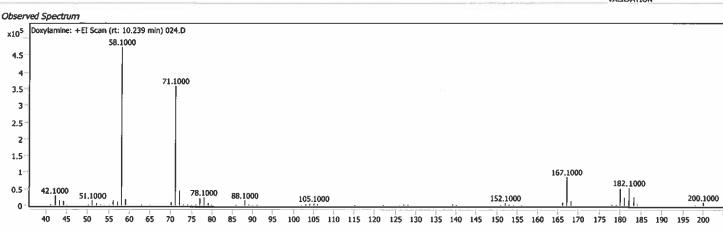


Sample Spectra

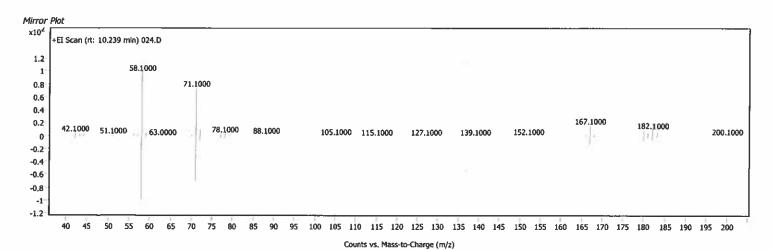


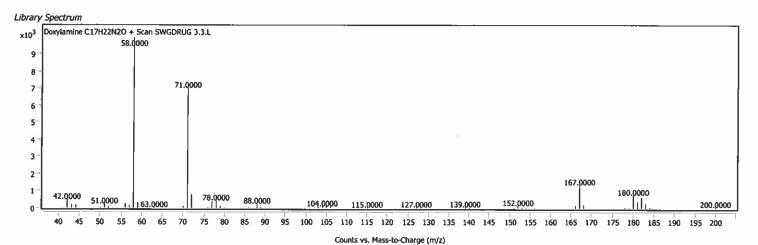
Doxylamine; C17H22N2O





Counts vs. Mass-to-Charge (m/z)

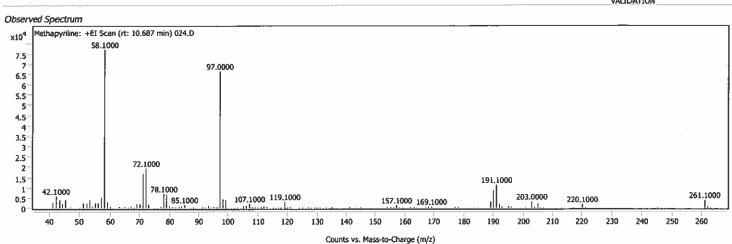


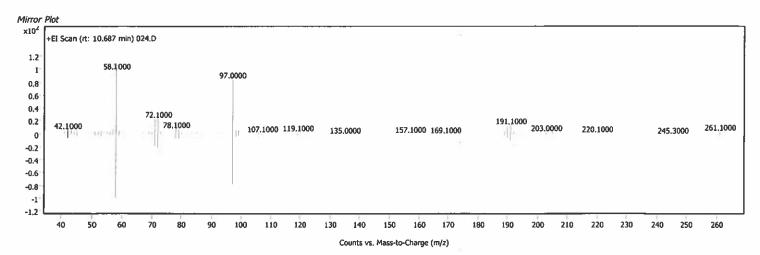


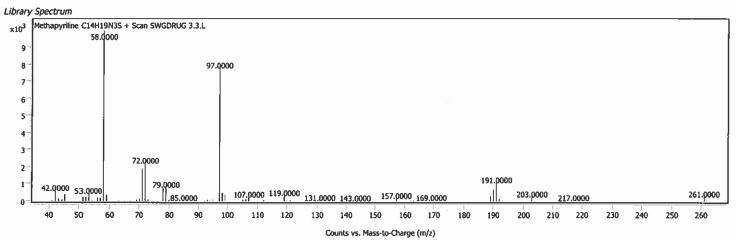




Methapyriline; C14H19N3S + Scan (rt: 10.687 min) LIb/DB Sample Name Score (Lib) Name Formula KM/QC DATA IN XYLAZINE VALIDATION C14H19N3S SWGDRUG 3.3.L MATRIX 10 W/ IH CTL - LVR Methapyriline 92.15

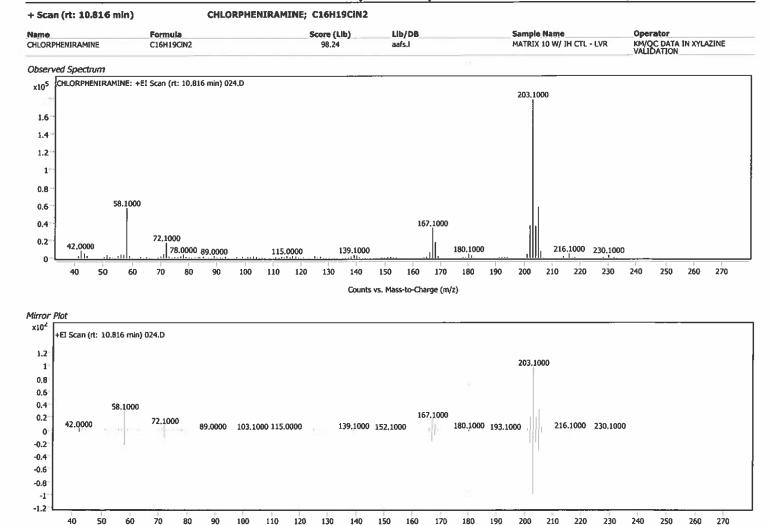


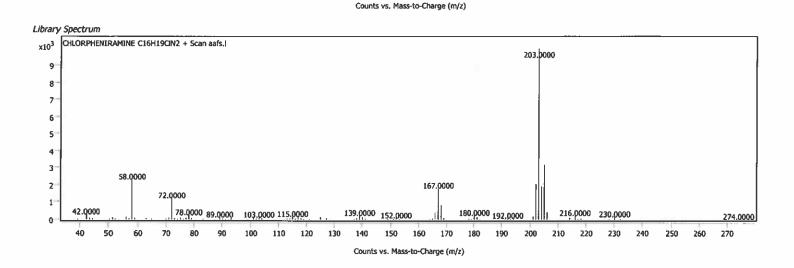






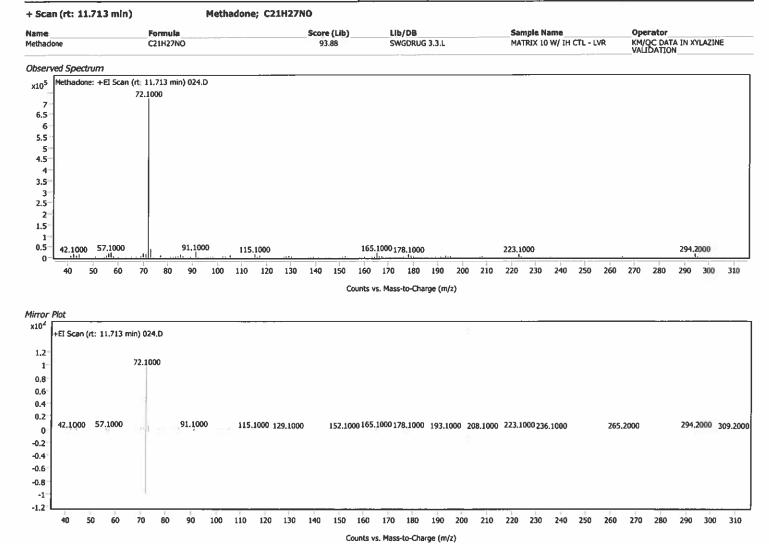




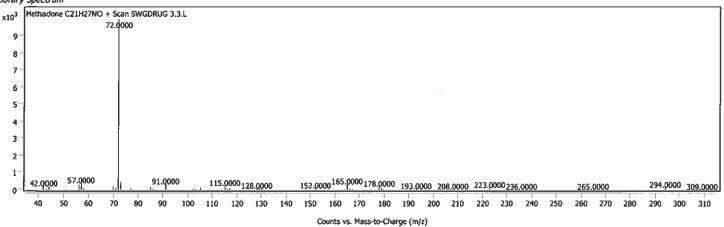












SERTRALINE; C17H17Cl2N

91,0000 103,7000

100 110 120 130 140

+ Scan (rt: 12.908 min)

0.8

0.6

0.4

0.2

42.1000 55,0000 70.1000



262.0000

260 270 280

239.0000

240

225.1000

246,0000



304.1000

300 310

Lib/DB Sample Name Score (Lib) Formula Name KM/QC DATA IN XYLAZINE VALIDATION SERTRALINE C17H17Cl2N MATRIX 10 W/ IH CTL - LVR Observed Spectrum SERTRALINE: +EI Scan (rt: 12.908 min) 024.0 x10⁴ 274,0000 2.6 2.4 2.2 2 1.8 1.6 1.4 1.2 159.0000

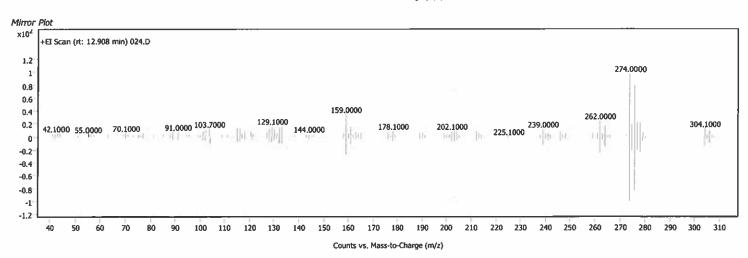
Counts vs. Mass-to-Charge (m/z)

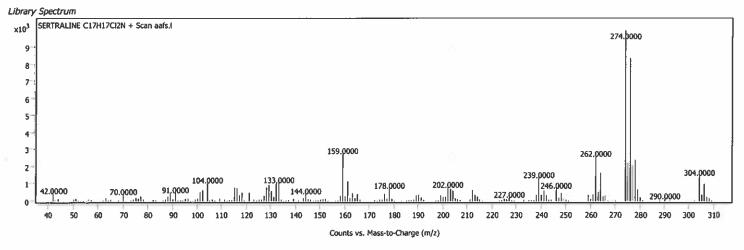
160 170 180

178,1000

144,0000

202.1000





Sample Information

Sample Name Instrument

Position

Operator

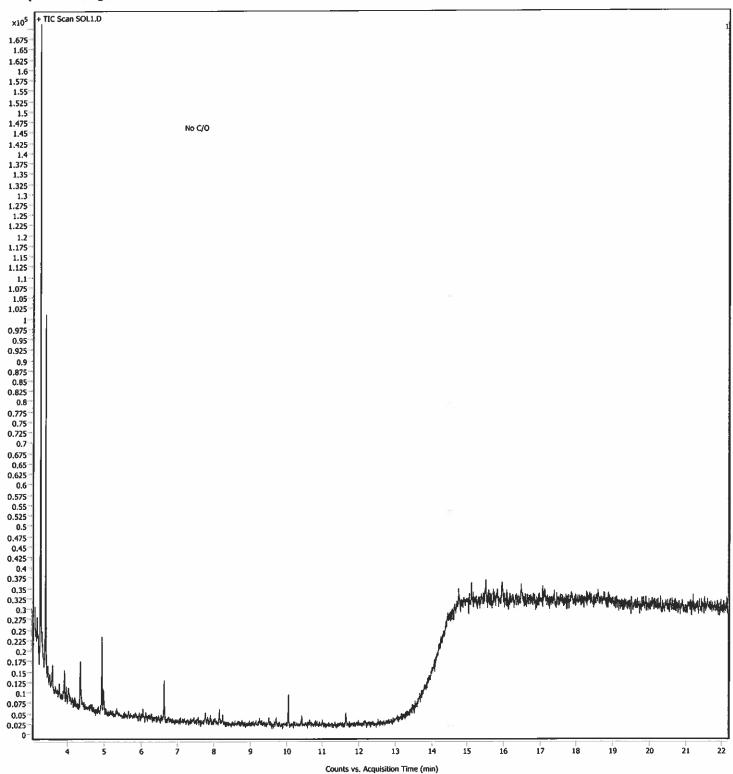
Solvent Blank 1

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL1.D 9/29/2021 12:26:18 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



Injection Date: 9/28/2021

11:53:23 PM

Seq Line:

Vial 27

Sample Name:

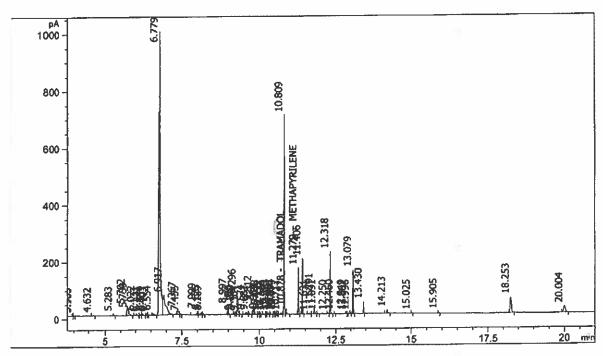
MATRIX 10 W/ IH CTL -->

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
10.878	11.033	36.176	20.639	0.000000	TRAMADOL
0.000	11.046	0.000	0.000		XYLAZINE
11.279	11.278	191.207	163.954		METHAPYRILENE

27

Injection Date: 9/29/2021

12:17:41 AM

Seq Line:

Vial 28

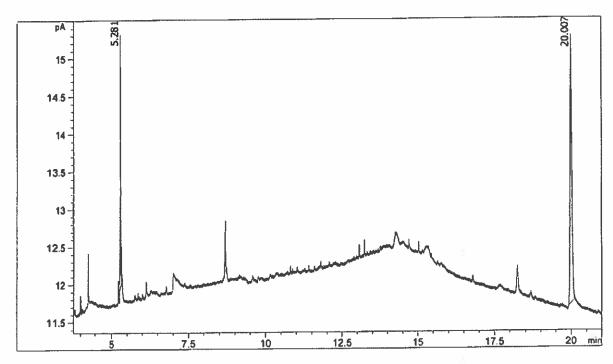
Sample Info:

Sample Name: SOLVENT BLANK 1

C:\CHEM32\1\METHODS\ALKALI.M

Acq. Method: Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE



Sample Information

Sample Name

Instrument Position

Operator

MATRIX 2 W/ SW CTL + XYLAZINE Data File Path - BLD

#3 - Enhanced

Acq. Time (Local)

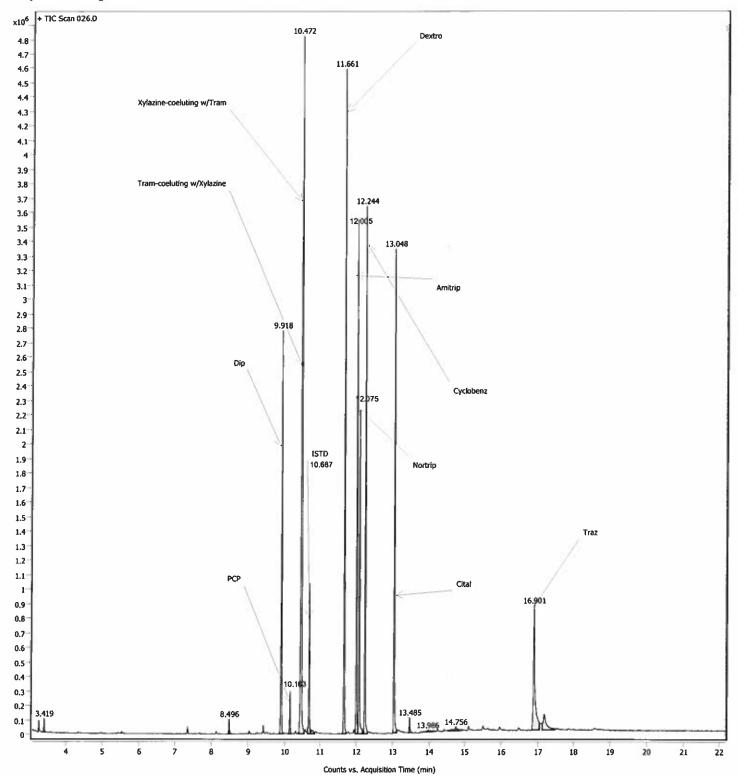
Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\1\data\BASES\092821\026.D

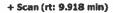
9/29/2021 1:18:11 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms

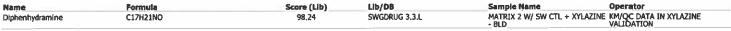


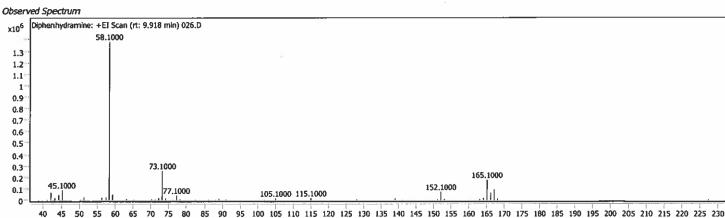


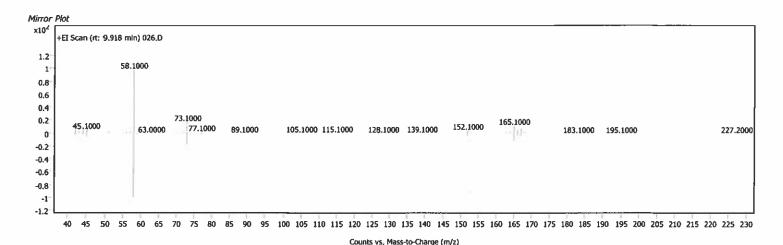
Sample Spectra



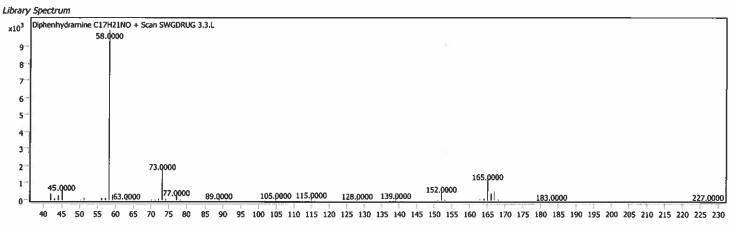
Diphenhydramine; C17H21NO







Counts vs. Mass-to-Charge (m/z)

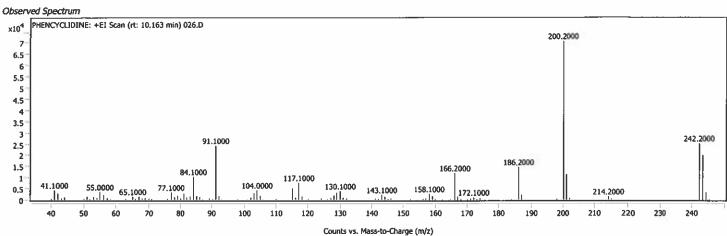


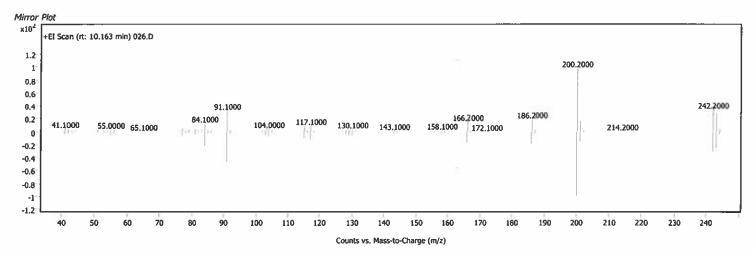


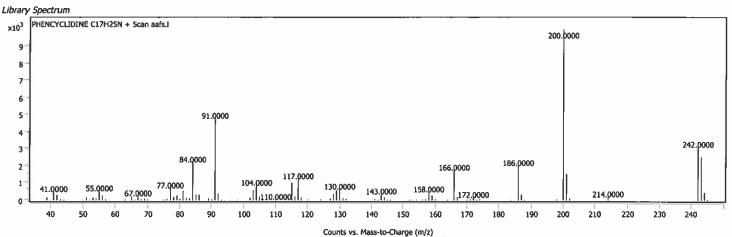


+ Scan (rt: 10.163 min) PHENCYCLIDINE; C17H25N









File :C:\Users\TOX\Desktop\092821\026.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

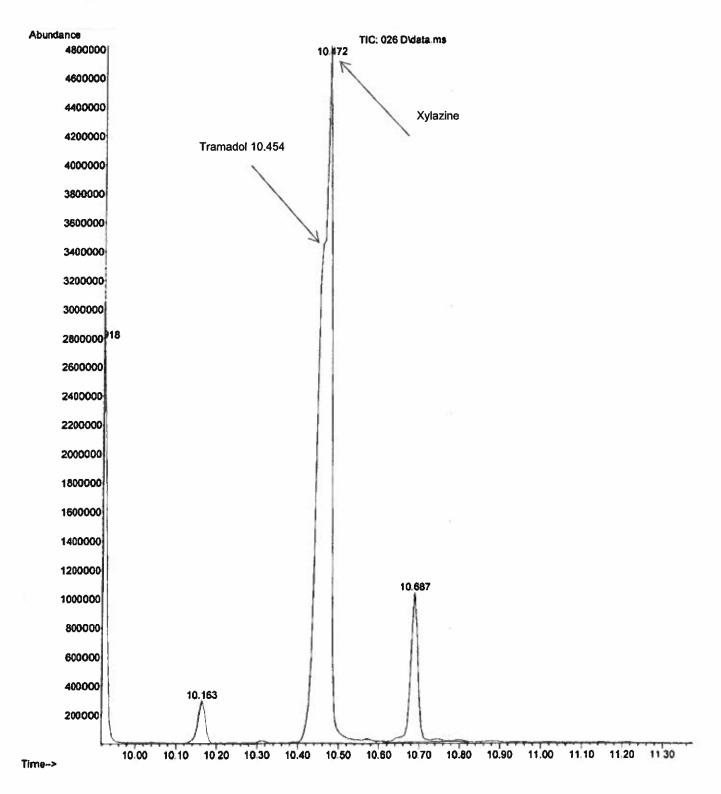
Acquired : 29 Sep 2021 01:18 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 2 W/ SW CTL + XYLAZINE - BLD

Misc Info : 2.0 mg/L - 400uL of 0.01 mg/mL CTL, plus 400uL 0.1 mg/mL XYLAZINE

Vial Number: 54



Library Searched : C:\MassHunter\Library\aafs.l

Quality

: 95

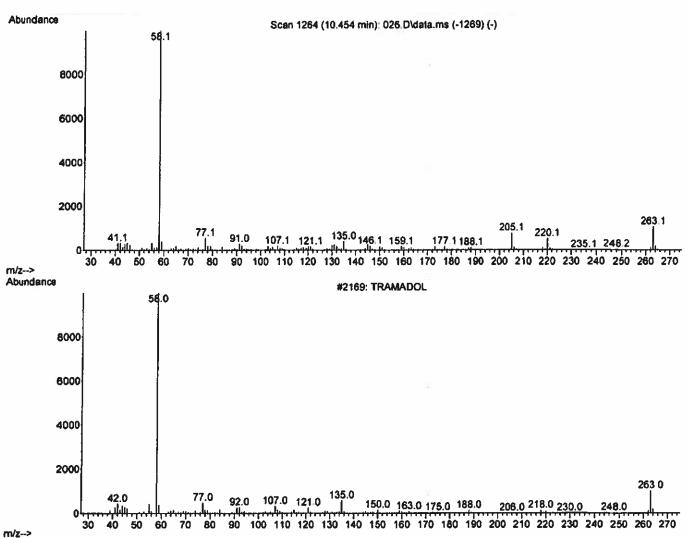
ID : TRAMADOL

Sample Name: MATRIX 2 W/ SW CTL + XYLAZINE - BLD

File: C:\Users\TOX\Desktop\092821\026.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 01:18

Vial: 54



Library Searched : C:\MassHunter\Library\aafs.l

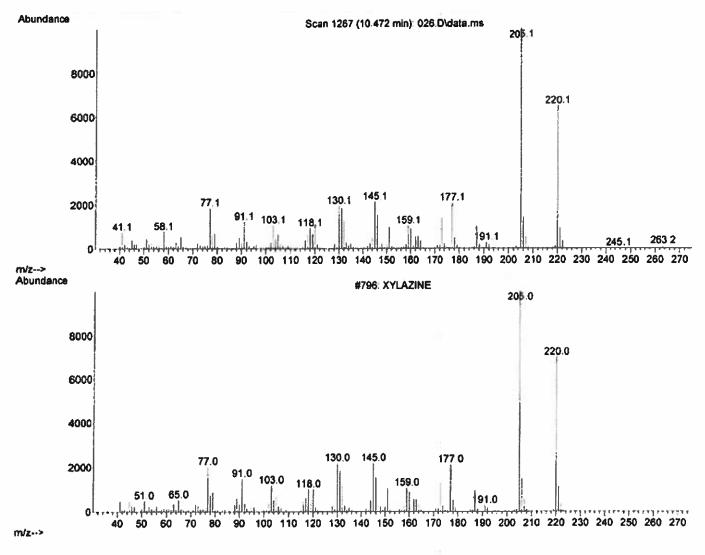
Quality ID : 99

ID : XYLAZINE Sample Name: MATRIX 2 W/ SW CTL + XYLAZINE - BLD

File: C:\Users\TOX\Desktop\092821\026.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

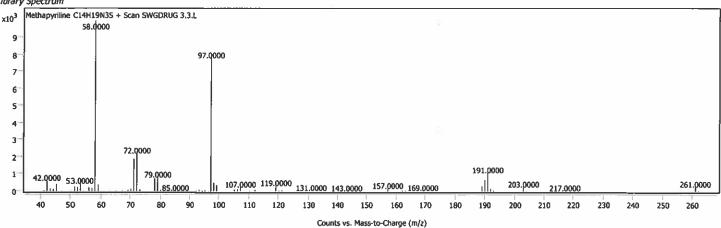
Date Acquired: 29 Sep 2021 01:18

Vial: 54

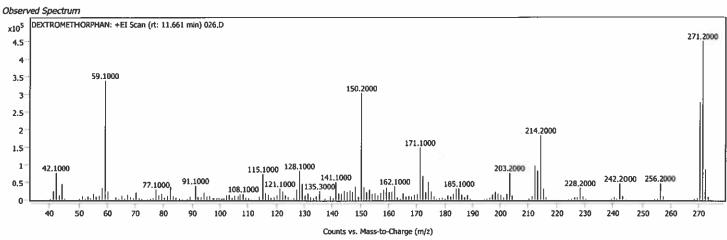


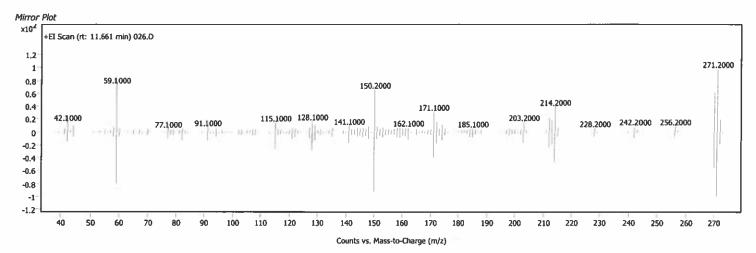


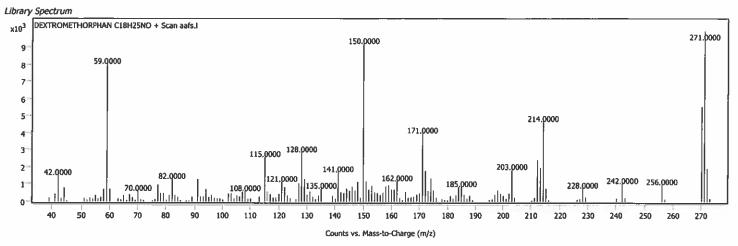
Methapyriline; C14H19N3S + Scan (rt: 10.687 min) Lib/DB Score (Lib) Sample Name Operator Name Formula MATRIX 2 W/ SW CTL + XYLAZINE KM/QC DATA IN XYLAZINE - BLD VALIDATION C14H19N3S SWGDRUG 3.3.L Methapyriline 97.32 Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 026,D x10⁵ 58.1000 2.6 2.4 97,0000 2.2 2 1.8 1.6 1.4 1.2 1 0.8 72.1000 0.6 191,1000 0.4 79,1000 42.1000 53,1000 261,1000 203,1000 0.2 107,1000 119,1000 157.1000 0 50 90 110 120 130 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 EI Scan (rt: 10.687 min) 026.D 1.2 58.1000 1 97,0000 0.8 0.6 0.4 72.1000 191,1000 0.2 79.1000 42.1000 53.1000 203.1000 261.1000 107.1000 119.1000 157.1000 169.0000 220.1000 0 -0.2 -0.4-0.6 -0.8 -1 -1.2 60 40 50 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3,3,L x10³ 58.0000





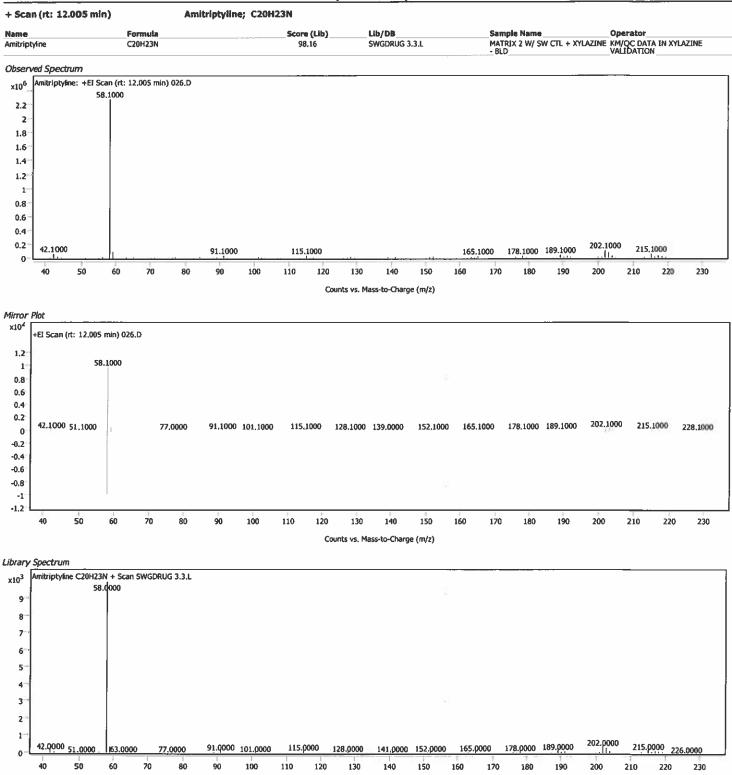












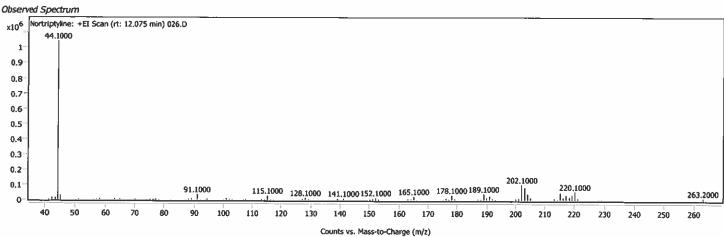
Counts vs. Mass-to-Charge (m/z)

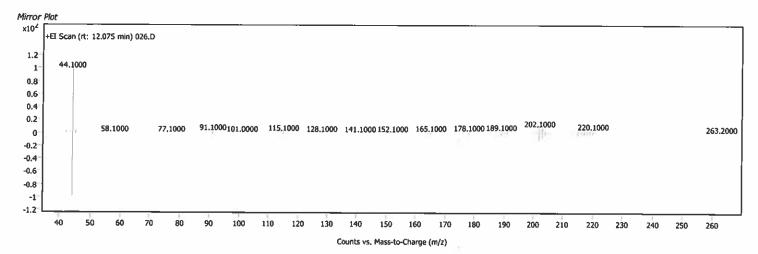


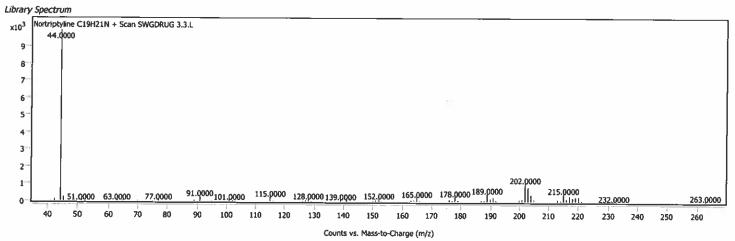
 + Scan (rt: 12.075 min)
 Nortriptyline; C19H21N

 Name
 Formula
 Score (Lib)
 Lib/DB
 Sample Name
 Operator

 Nortriptyline
 C19H21N
 97.29
 SWGDRUG 3.3.L
 MATRIX 2 W/ SW CTL + XYLAZINE KM/QC DATA IN XYLAZINE - BLD



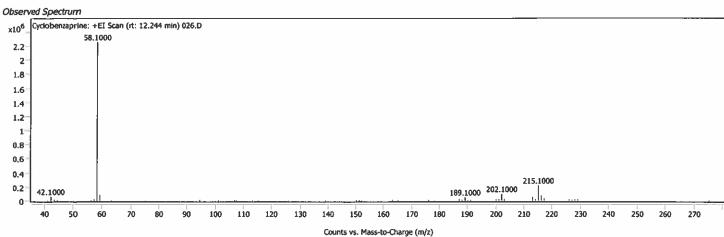


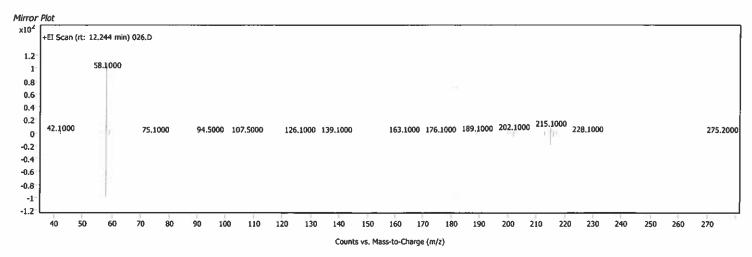


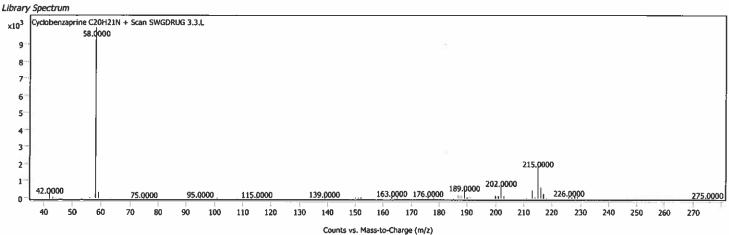






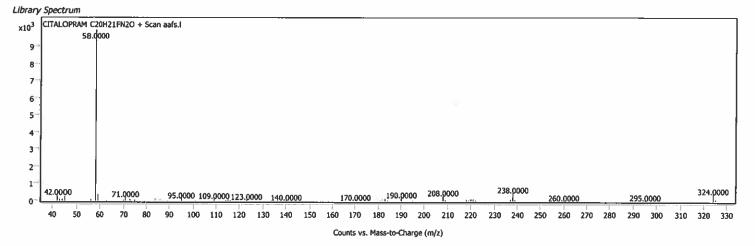








+ Scan (rt: 13.048 min) CITALOPRAM; C20H21FN2O Name Formula Score (Lib) LIb/DB Sample Name Operator MATRIX 2 W/ SW CTL + XYLAZINE KM/QC DATA IN XYLAZINE - BLD VALIDATION CITALOPRAM C20H21FN2O 96.79 aafs.l Observed Spectrum CITALOPRAM: +EI Scan (rt: 13.048 min) 026,D x10⁶ 58.1000 1.6 1.4 1.2 1 0.8 0.6 0.4 0.2 238.1000 324,2000 42.1000 208.1000 71.1000 95.1000 109.0000 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 330 300 310 320 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 13.048 min) 026.D 1.2 58.1000 0.8 0.6 0.4 0.2 42.1000 238,1000 324.2000 71.1000 95.1000 109.0000 123.1000 140,0000 190,1000 208.1000 295,2000 170.1000 260,1000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 60 170 180 190 200 210 220 250 260 270 230 240 280 290 300 310 320 330 Counts vs. Mass-to-Charge (m/z)

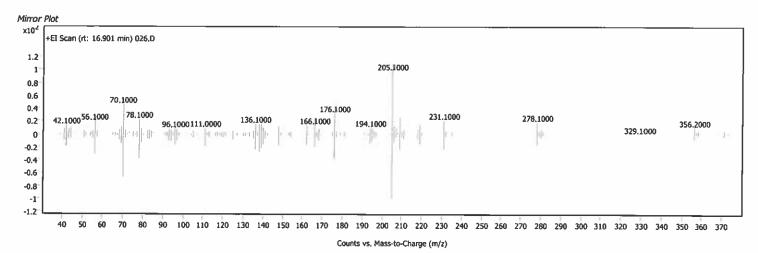


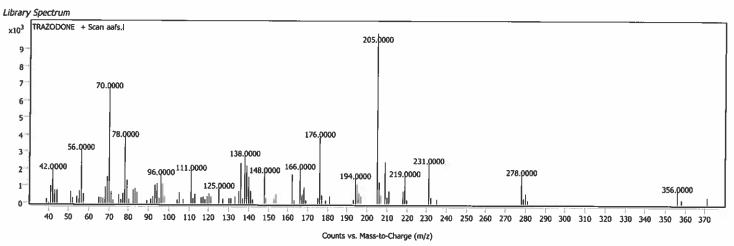
TRAZODONE

+ Scan (rt: 16.901 min)



Formula Score (Llb) LID/DB Name Sample Name TRAZODONE 94,29 MATRIX 2 W/ SW CTL + XYLAZINE KM/QC DATA IN XYLAZINE - BLD VALIDATION aafs.l Observed Spectrum TRAZODONE: +EI Scan (rt: 16.901 min) 026.D x10⁵ 205,1000 0.9 0.8 0.7 70.1000 0.5 0.4 176.1000 0.3 78,1000 231.1000 56.1000 278,1000 136,1000 | || 148,0000 166,1000 0.2 42.1000 219,1000 194.1000 356.2000 96.1000111.0000 0.1 125,0000 371,2000 40 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370 50 100 Counts vs. Mass-to-Charge (m/z)





29

Injection Date:

9/29/2021

1:06:20 AM

Seq Line:

Vial 30

Sample Name: Sample Info:

MATRIX 2 W/ SW CTL + ->

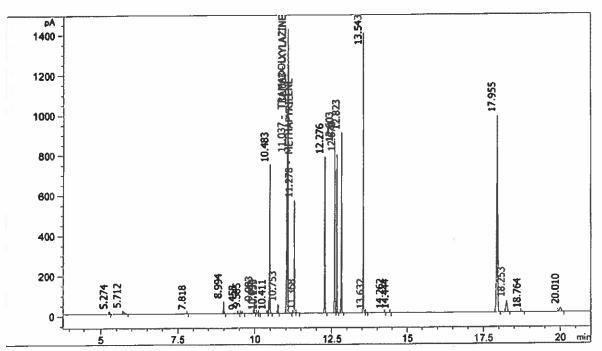
KM 11/17/22

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

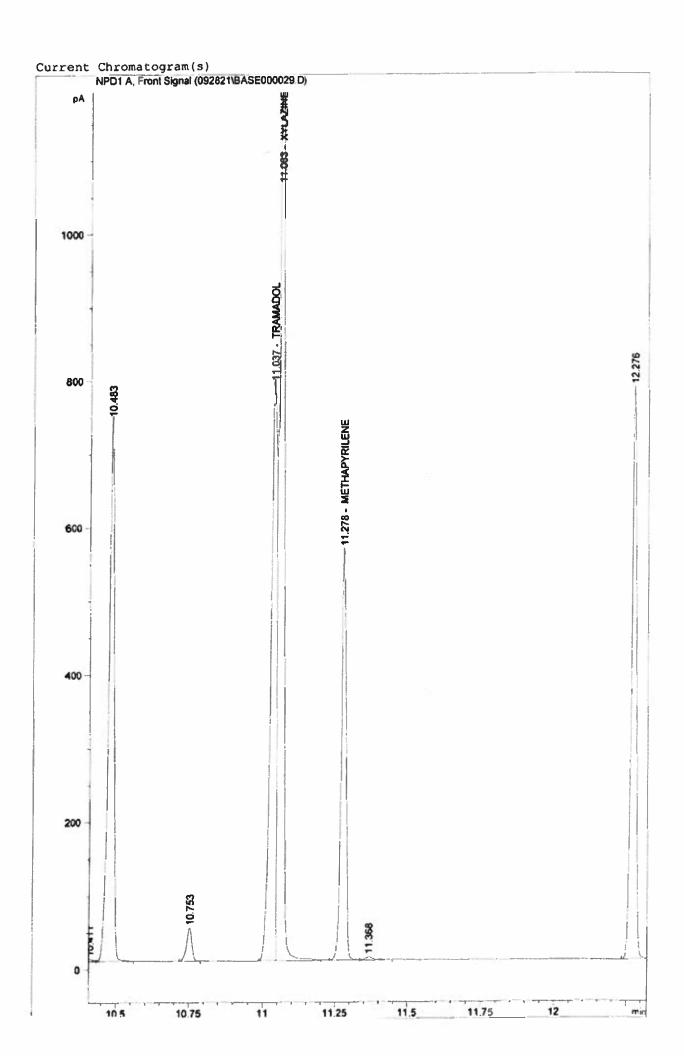
Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.037 11.063 11.278	11.033 11.046 11.278	1085.410 1667.894 654.919	785.224 1410.112 558.788	0.000000	TRAMADOL RRT - 0.9786 XYLAZINE RRT- 0.9809 METHAPYRILENE







Sample Information

Sample Name

Operator

Instrument Position

MATRIX 1 W/ SW CTL + XYLAXINE Data File Path - BLD #3 - Enhanced Acq. Time (Loc Acq. Time (Local)

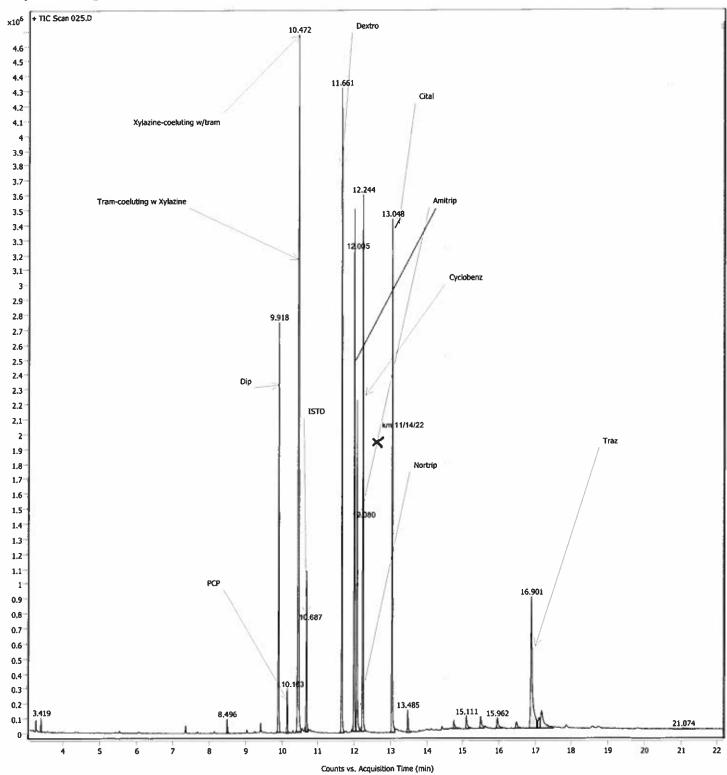
Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\1\data\8ASES\092821\025.D

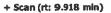
9/29/2021 12:52:10 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



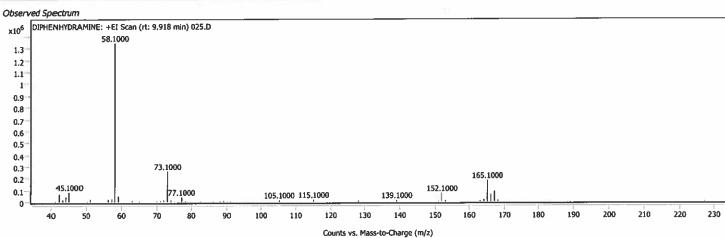


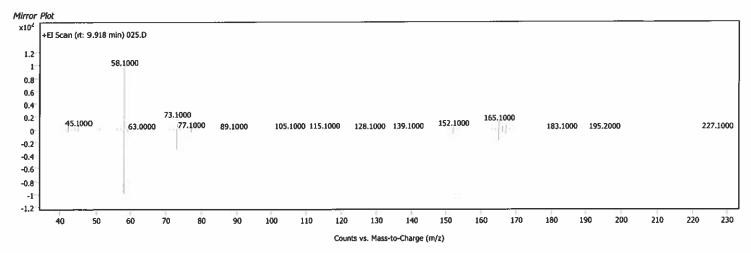
Sample Spectra

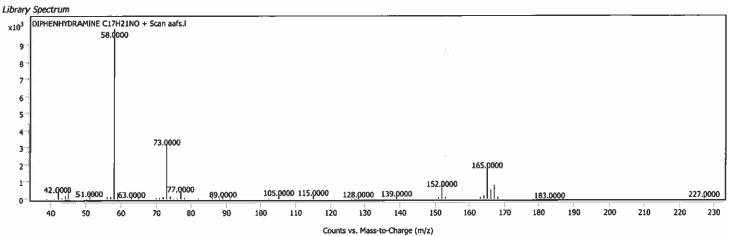


DIPHENHYDRAMINE; C17H21NO





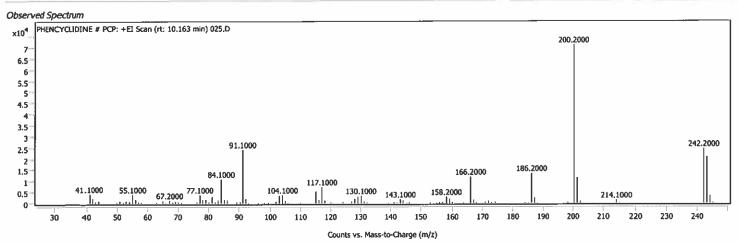


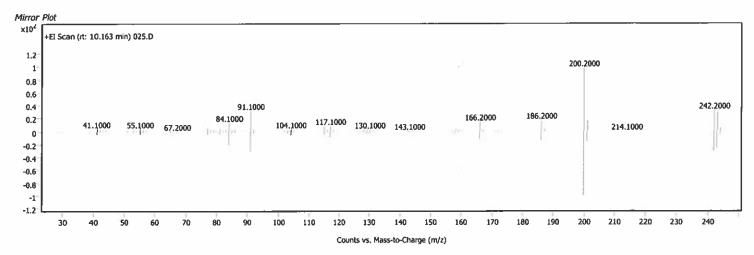


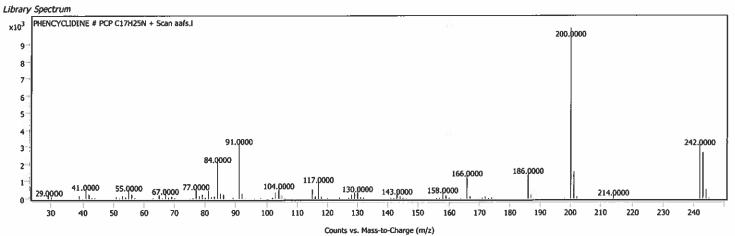


Agilent

PHENCYCLIDINE # PCP; C17H25N + Scan (rt: 10.163 min) Score (Lib) 98.37 LIb/DB Formula MATRIX 1 W/ SW CTL + XYLAXINE KM/OC DATA IN XYLAZINE - 8LD VALIDATION C17H25N aafs.l PHENCYCLIDINE # PCP







File :C:\Users\TOX\Desktop\092821\025.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

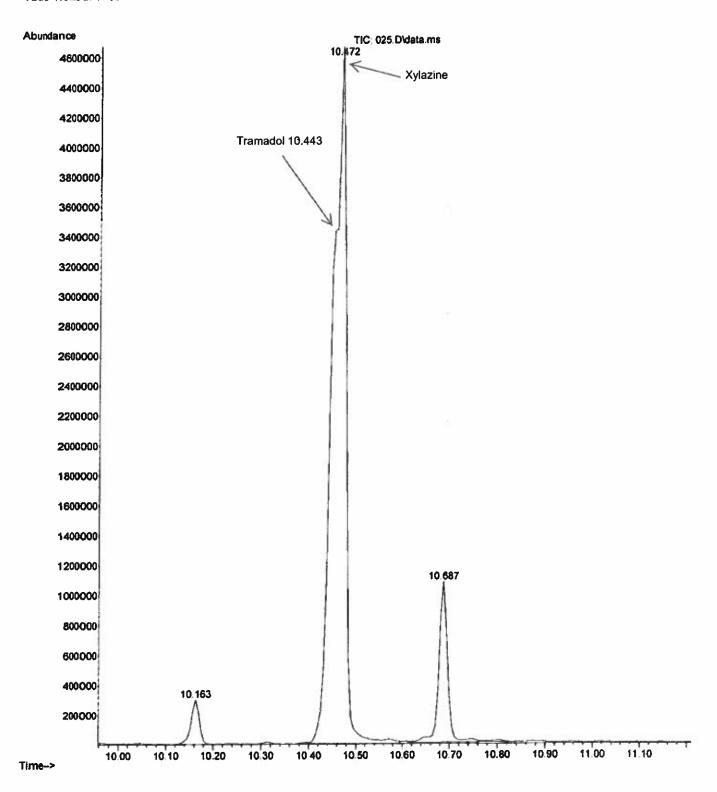
Acquired : 29 Sep 2021 00:52 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 1 W/ SW CTL + XYLAXINE - BLD

Misc Info : 2.0 mg/L - 400uL of 0.01 mg/mL CTL, plus 400uL 0.1 mg/mL XYLAZINE

Vial Number: 53



Library Searched : C:\MassHunter\Library\aafs.l

Quality : 95

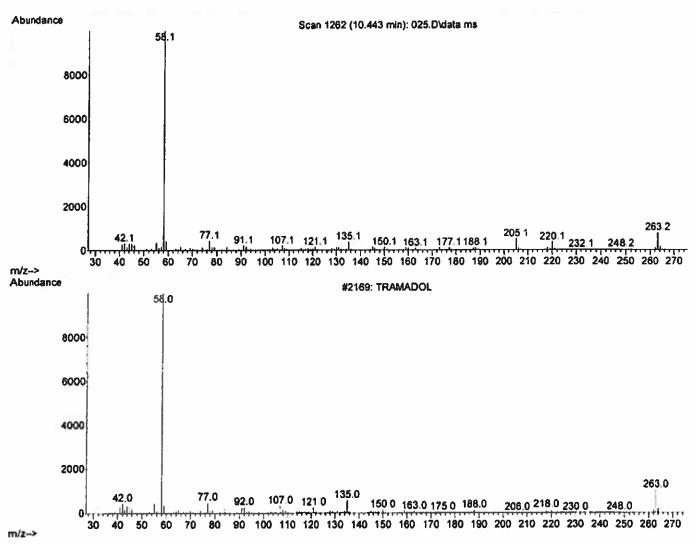
ID : TRAMADOL

Sample Name: MATRIX 1 W/ SW CTL + XYLAXINE - BLD

File: C:\Users\TOX\Desktop\092821\025.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 00:52

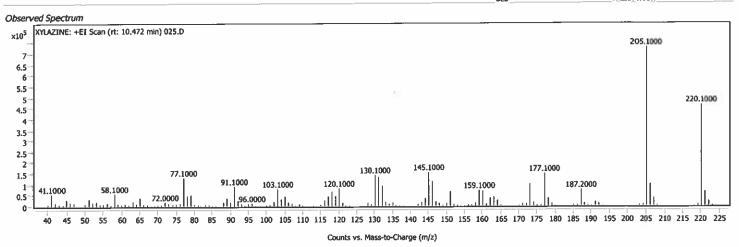
Vial: 53

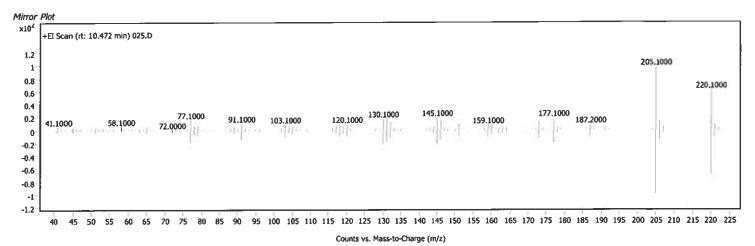


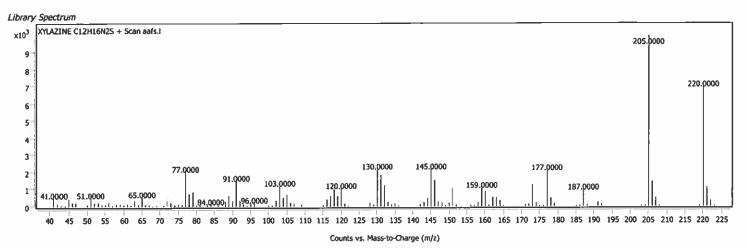










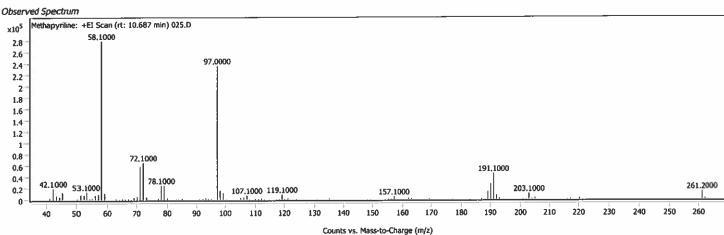


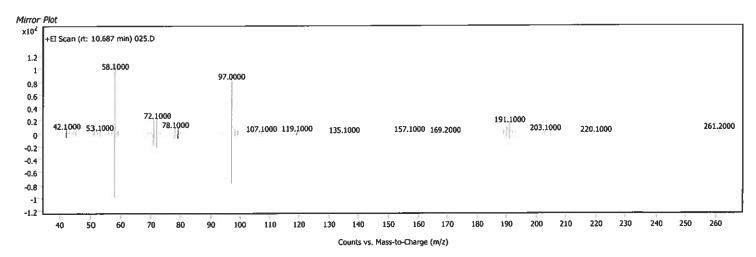


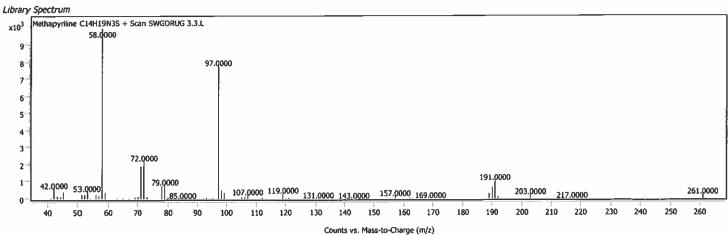


+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S







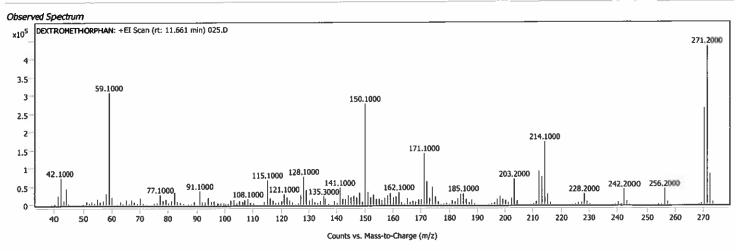


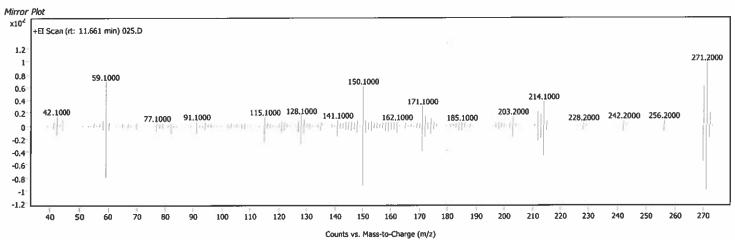


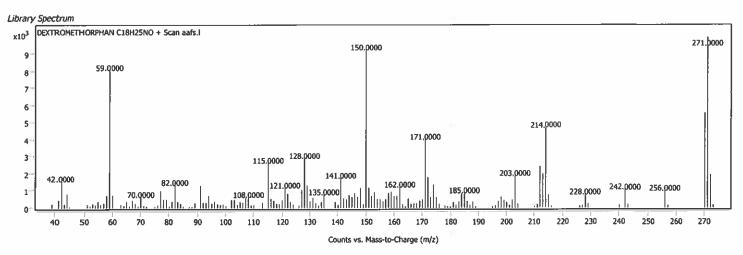
femilie Associa

+ Scan (rt: 11.661 min) DEXTROMETHORPHAN; C18H25NO











+ Scan (rt: 12.005 min) Amitriptyline; C20H23N Sample Name Formula Score (Lib) LIb/DB Operator MATRIX 1 W/ SW CTL + XYLAXINE KM/QC DATA IN XYLAZINE - BLD VALIDATION 97.89 SWGDRUG 3.3.L Amitriptyline C20H23N Observed Spectrum Amitriptyline: +El Scan (rt: 12,005 min) 025,D x10⁶ 2,2 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 202,1000 215,1000 42.1000 178.1000 189.1000 165.1000 91,1000 115.1000 160 170 190 200 210 230 60 70 90 100 110 120 140 150 180 40 50 130 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 12.005 min) 025.D 1.2 58.1000 0.8 0.6 0.4 0.2 202,1000 42.1000 51.1000 165.1000 178.1000 189.1000 215.1000 91.1000 101.1000 115.1000 128,1000 139,1000 152.1000 228.1000 63.1000 77.1000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 40 Counts vs. Mass-to-Charge (m/z) Library Spectrum Amitriptyline C20H23N + Scan SWGDRUG 3.3.L x10³ 58.0000 8 6 5 3 2-1 42.0000 51.0000 202.0000 178,0000 189,0000 215.0000 91.0000 101.0000 115.0000 128.0000 141.0000 152.0000 165,0000

150

160

140

Counts vs. Mass-to-Charge (m/z)

170

180

190

90

80

40

50

60

70

100

110

120

130

220

230

210

200

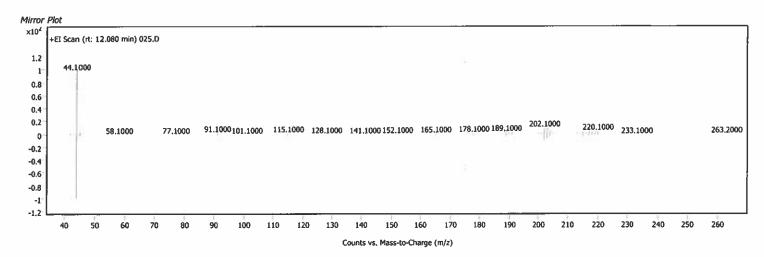
Nortriptyline; C19H21N

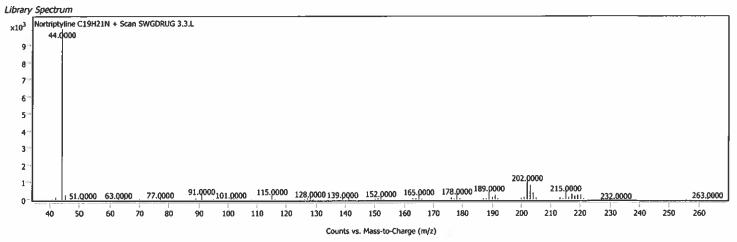
+ Scan (rt: 12.080 min)



Formula Score (LIb) LIB/DB Sample Name Operator MATRIX 1 W/ SW CTL + XYLAXINE KM/QC DATA IN XYLAZINE - 81.D VALIDATION SWGDRUG 3.3.L 97.70 Nortriptyline C19H21N Observed Spectrum ×10⁶ Nortriptyline: +EI Scan (rt: 12,080 min) 025,D 44.1000 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 202,1000 220.1000 0.1 91.1000 101.1000 115,1000 128,1000 141,1000 152,1000 165,1000 178,1000 189,1000 263.2000 Jaal 110 120 150 160 200 210 220 230 240 250 260 40 50 60 70 100 130 140

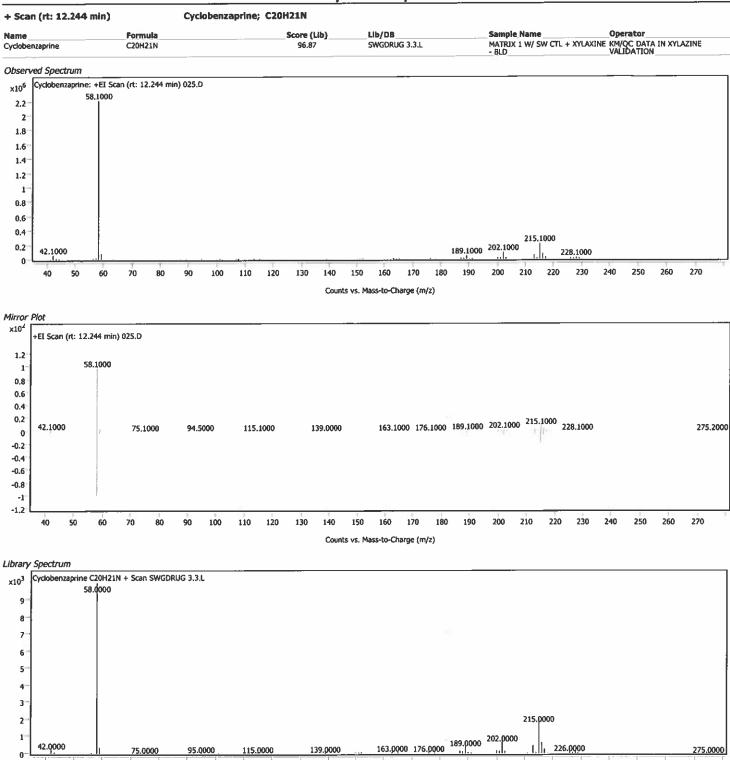
Counts vs. Mass-to-Charge (m/z)







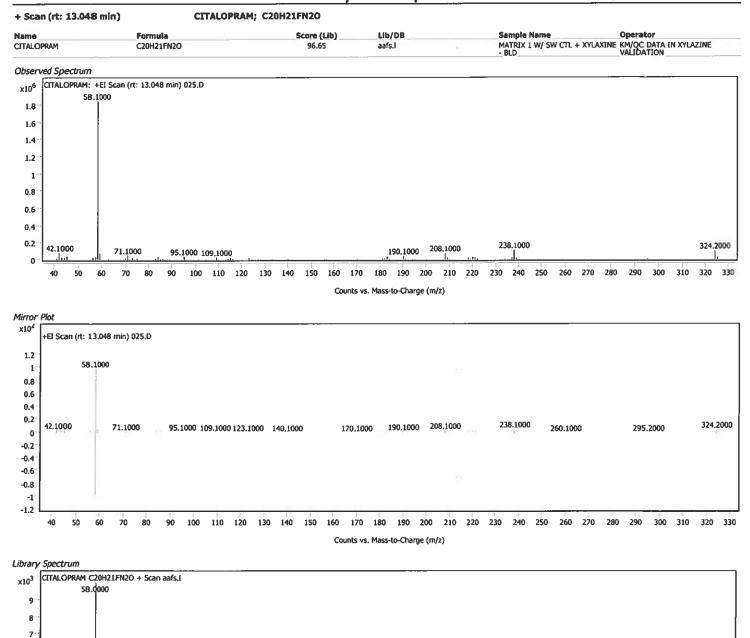




Counts vs. Mass-to-Charge (m/z)







0

50

71.0000

238,0000

190.0000

170.0000

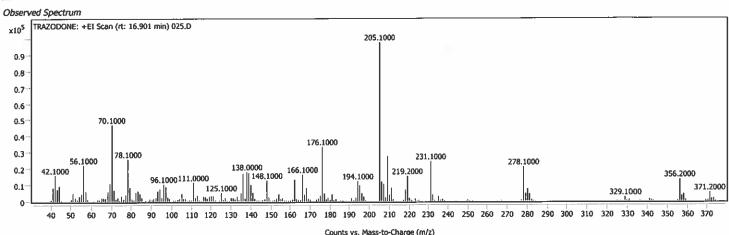
140,0000

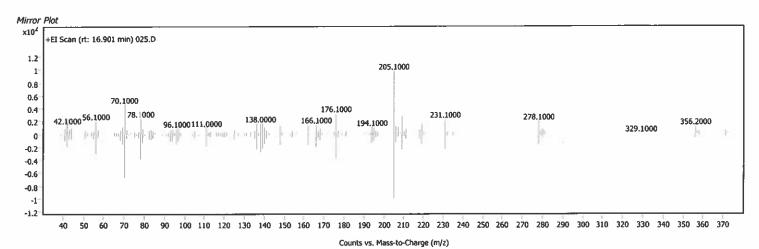
100 110 120

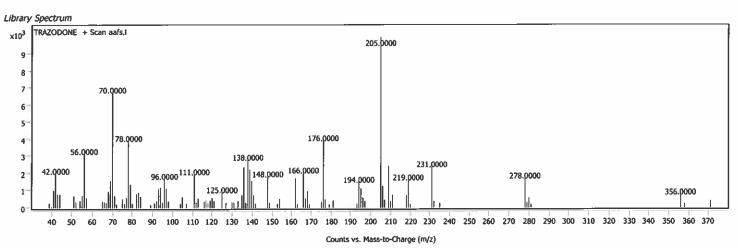
324.0000











Injection Date:

9/29/2021

12:42:03 AM

Seq Line:

Sample Name:

MATRIX 1 W/ SW CTL + ->

Vial 29

Sample Info:

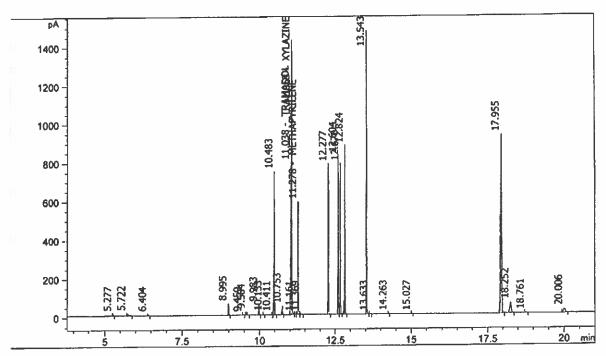
xylazine ku ilin 122

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

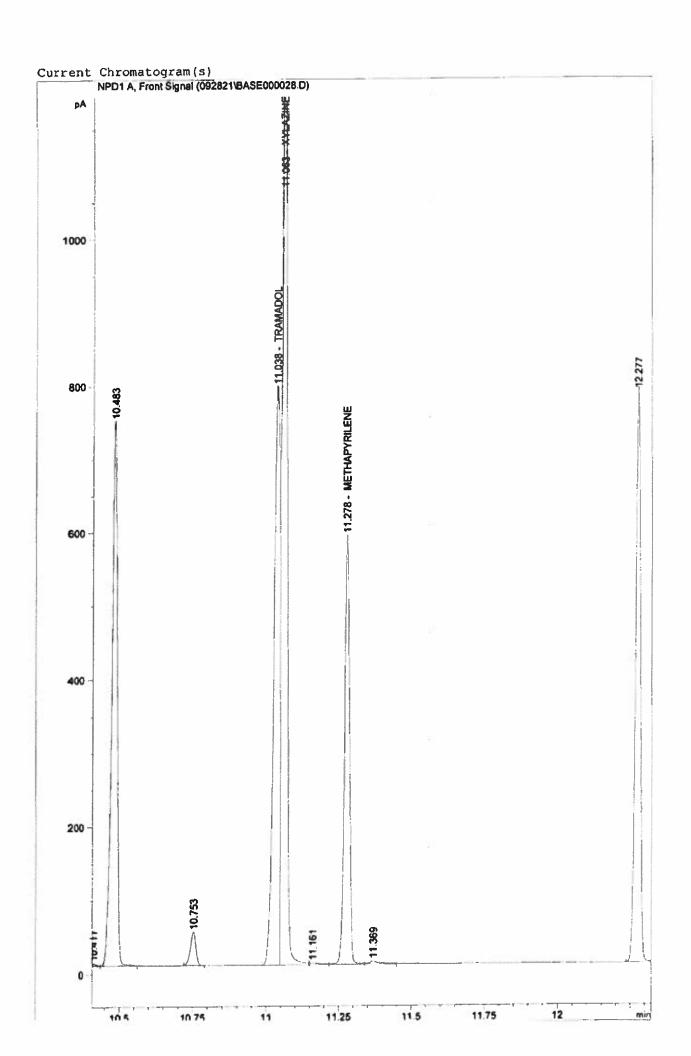
Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

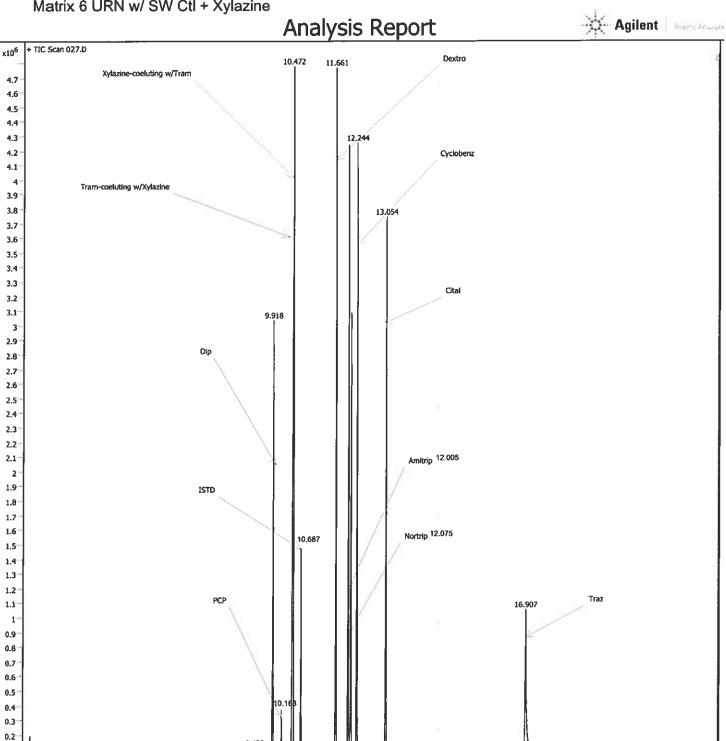
KM/QC DATA IN XYLAZINE VALIDATION



see following page for expanded chromatogram

	p RT min] Area	Height	Amount mg/L	Compound
11.038 11. 11.063 11. 11.278 11.	1646.089	7.7000	0.000000	TRAMADOL RRT-0.9787 XYLAZINE RRT-0.9809 METHAPYRILENE



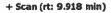


Counts vs. Acquisition Time (min)

15,106

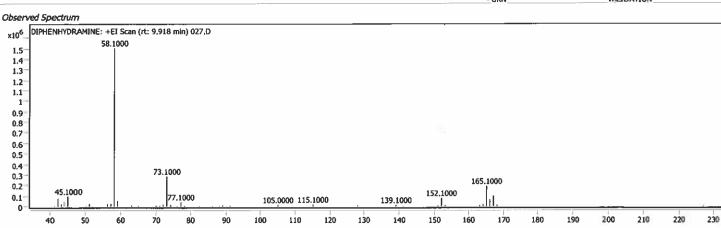


Sample Spectra

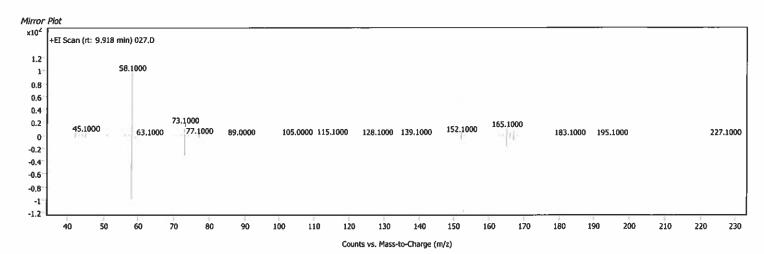


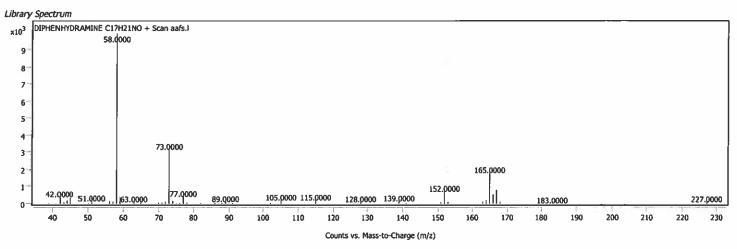
DIPHENHYDRAMINE; C17H21NO





Counts vs. Mass-to-Charge (m/z)





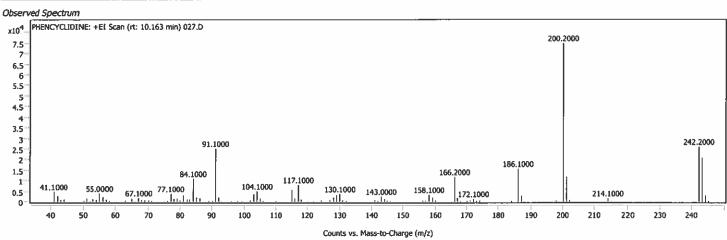


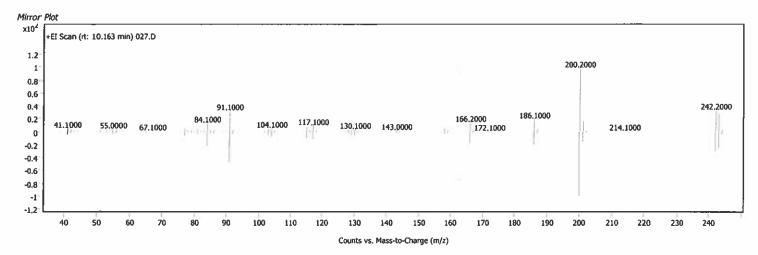
 + Scan (rt: 10.163 min)
 PHENCYCLIDINE; C17H25N

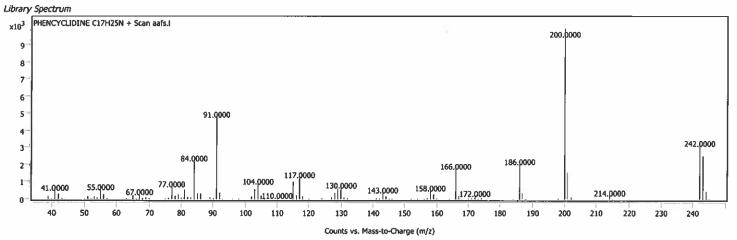
 Name
 Formula
 Score (Lib)
 Lib/DB
 Sample Name
 Operator

 PHENCYCLIDINE
 C17H25N
 98.55
 aafs.I
 MATRIX 6 W/ SW CTL + XYLAZINE KM/QC DATA IN XYLAZINE - URN

 VALIDATION
 VALIDATION
 VALIDATION







File :C:\Users\TOX\Desktop\092821\027.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

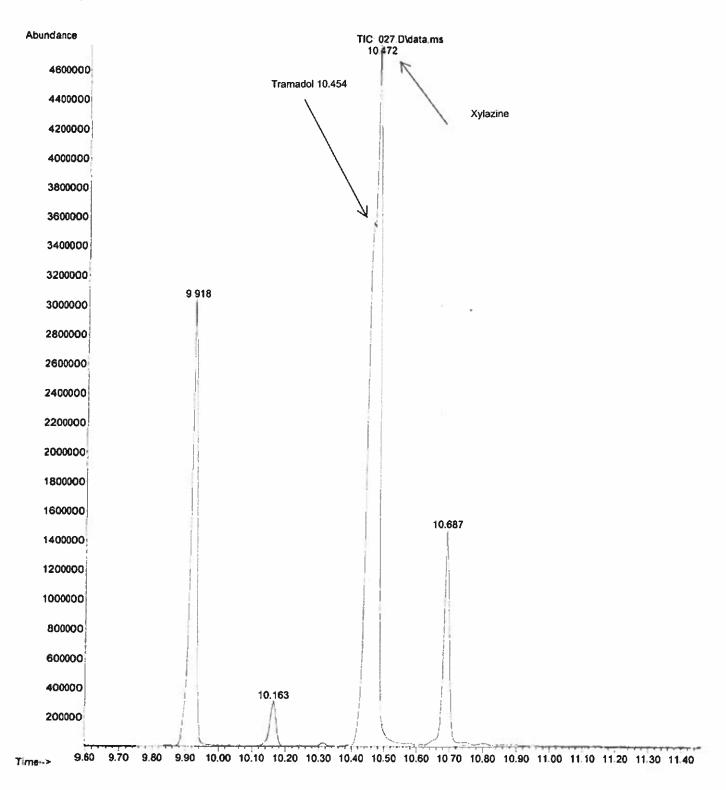
Acquired : 29 Sep 2021 01:43 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 6 W/ SW CTL + XYLAZINE - URN

Misc Info : 2.0 mg/L - 400uL of 0.01 mg/mL CTL, plus 400uL 0.1 mg/mL XYLAZINE

Vial Number: 55



Library Searched : C:\MassHunter\Library\aafs.l

Quality : 95

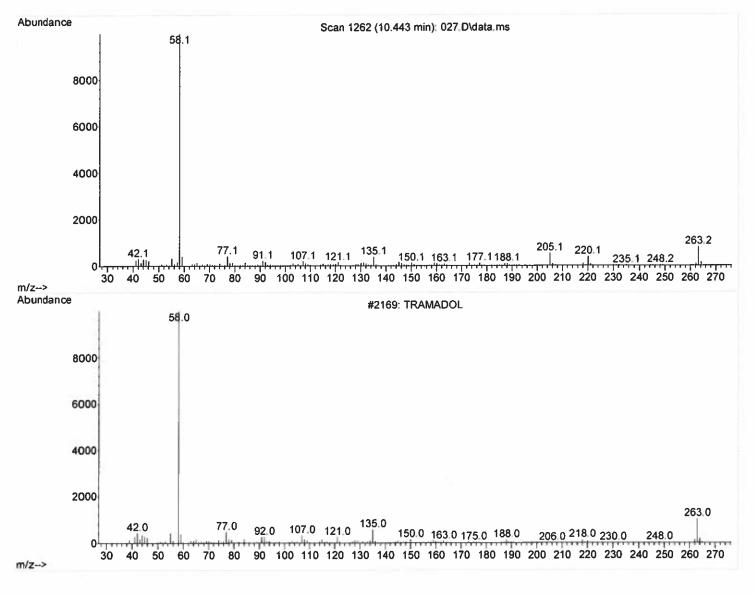
ID : TRAMADOL

Sample Name: MATRIX 6 W/ SW CTL + XYLAZINE - URN

File: C:\Users\TOX\Desktop\092821\027.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 01:43

Vial: 55



Library Searched : C:\MassHunter\Library\aafs.l

Quality

: 99

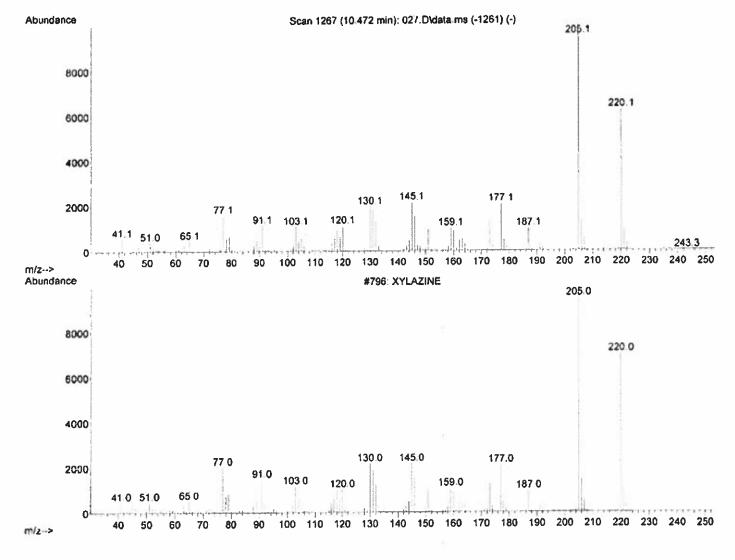
ID : XYLAZINE

Sample Name: MATRIX 6 W/ SW CTL + XYLAZINE - URN

File: C:\Users\TOX\Desktop\092821\027.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 01:43

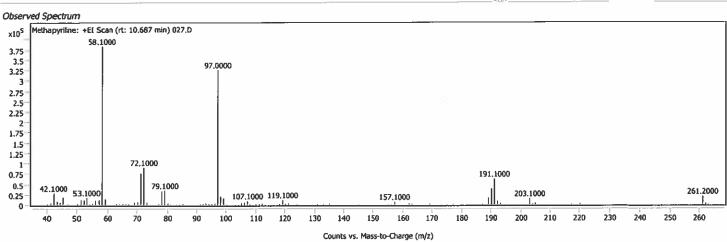
Vial: 55

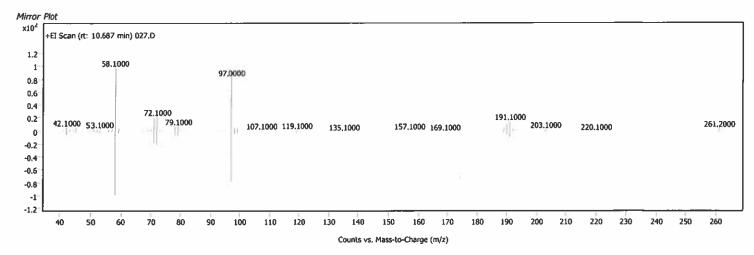


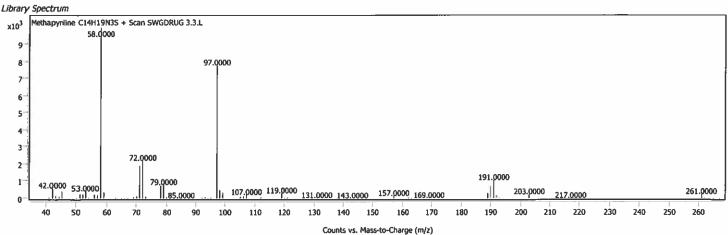












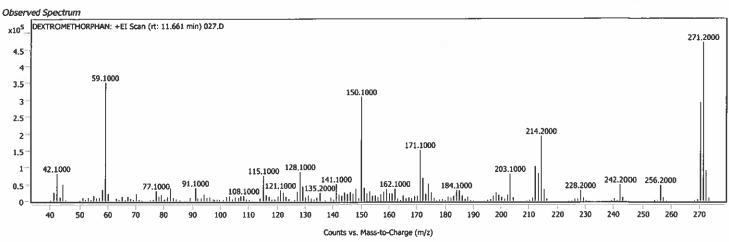


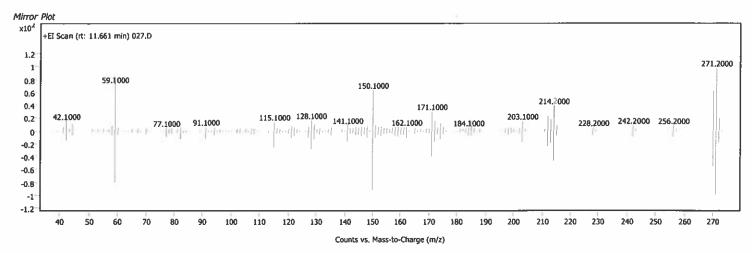


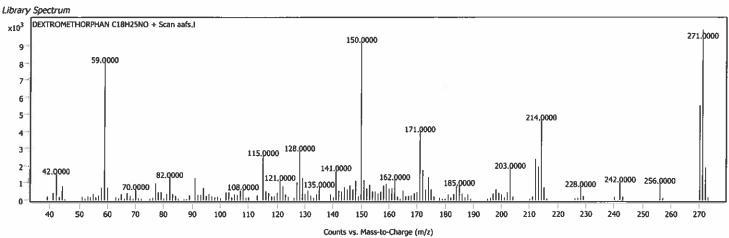
+ Scan (rt: 11.661 min)

DEXTROMETHORPHAN; C18H25NO



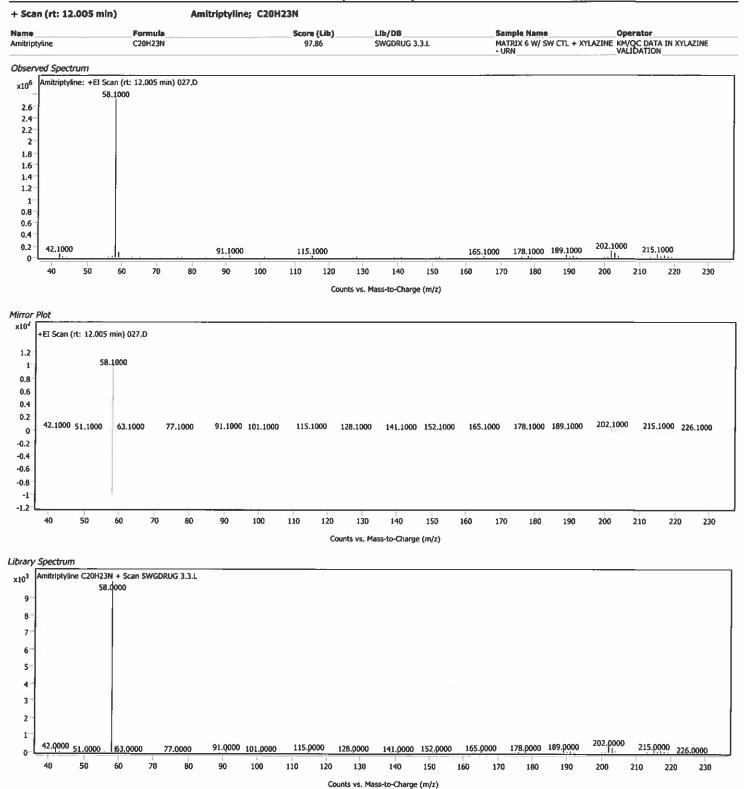








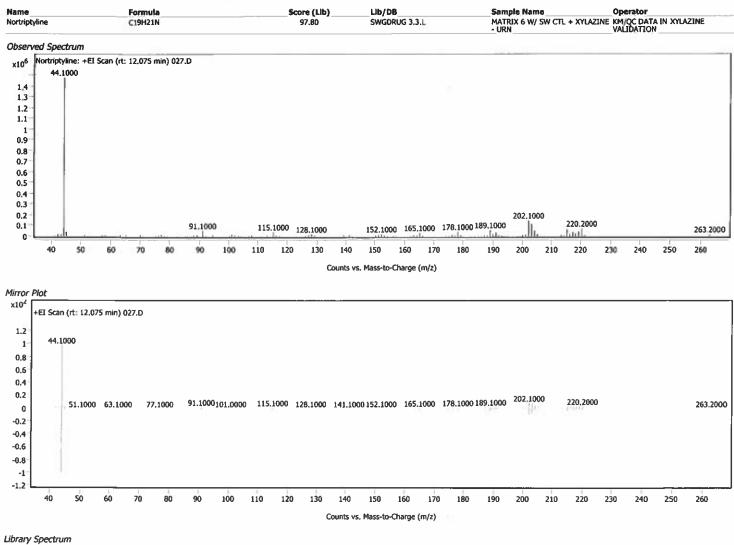


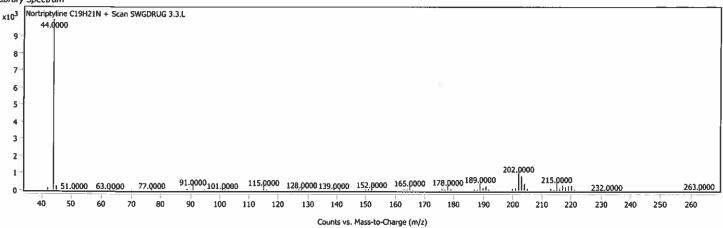


Nortriptyline; C19H21N

+ Scan (rt: 12.075 min)









+ Scan (rt: 12.244 min) Cyclobenzaprine; C20H21N Score (Lib) Lib/DB Sample Name Name Formula C20H21N SWGDRUG 3.3.L MATRIX 6 W/ SW CTL + XYLAZINE KM/OC DATA IN XYLAZINE - URN VALIDATION Cyclobenzaprine 96.63 Observed Spectrum Cyclobenzaprine: +EI Scan (rt: 12,244 min) 027.D x10⁶ 58.1000 2,6 2.4 2.2 2 1.8 1.6 1.4 1.2 1 0.8 0.6 0.4 215.1000 189,1000 202,1000 0.2 42,1000 270 50 60 70 80 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ EI Scan (rt: 12,244 min) 027.D 1.2 58.1000 1 8.0 0.6 0.4 0.2 163,1000 176,1000 189,1000 202,1000 215,1000 228,1000 42.1000 75,1000 94.6000 106.7000 126,1000 139.1000 275.2000 0 -0.2 -0.4 -0.6 -0.8 -1 40 50 60 70 120 130 210 220 270 90 100 110 140 150 160 170 180 190 200 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum Cyclobenzaprine C20H21N + Scan SWGDRUG 3.3.L x10³ 58.0000 9 8 7 6 5

3 2

1

42.0000

50

60

40

75.0000

70

95.0000

100

115.0000

120

110

139,0000

140

150

160

Counts vs. Mass-to-Charge (m/z)

130

260

250

275.0000

270

215,0000

220

230

240

210

202,0000

200

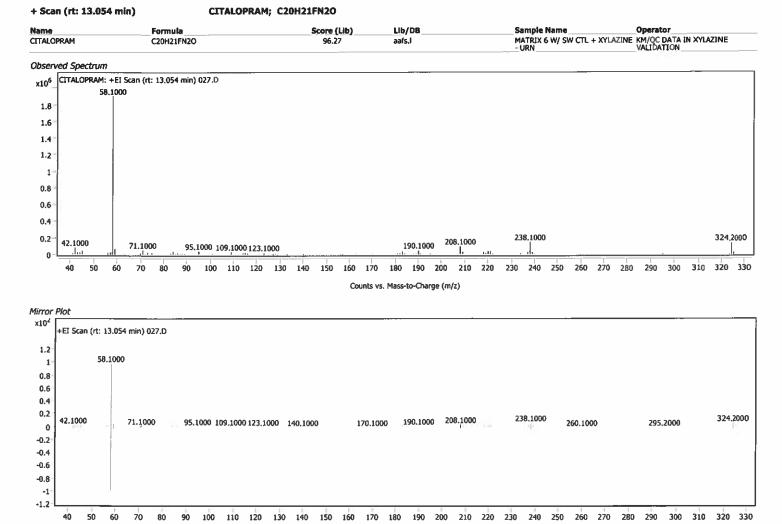
190

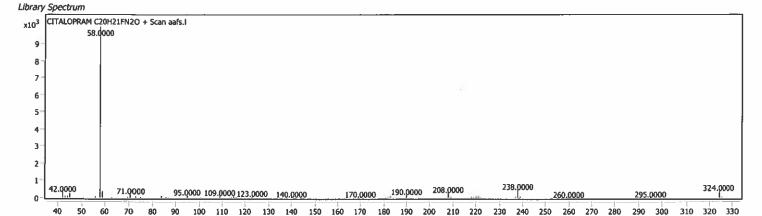
163.0000 176.0000

170









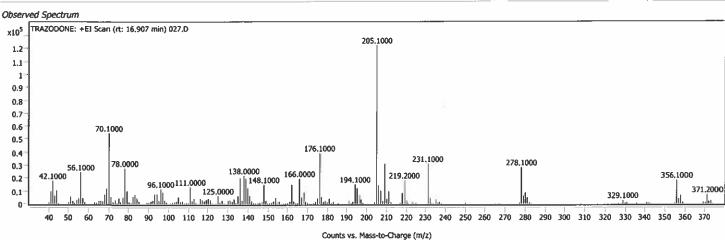
Counts vs. Mass-to-Charge (m/z)

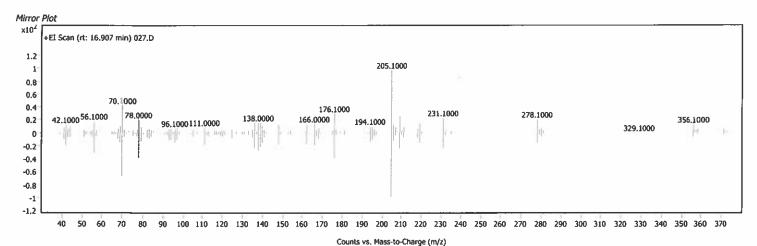
Counts vs. Mass-to-Charge (m/z)

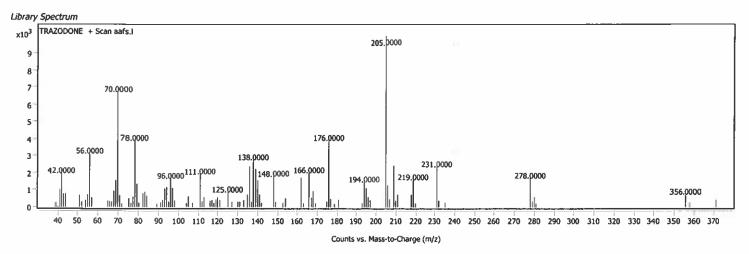




+ Scan (rt: 16.907 min)







30

Injection Date: Sample Name:

9/29/2021

1:30:38 AM

Seq Line:

Vial 31

Sample Info:

MATRIX 6 W/ SW CTL + ->

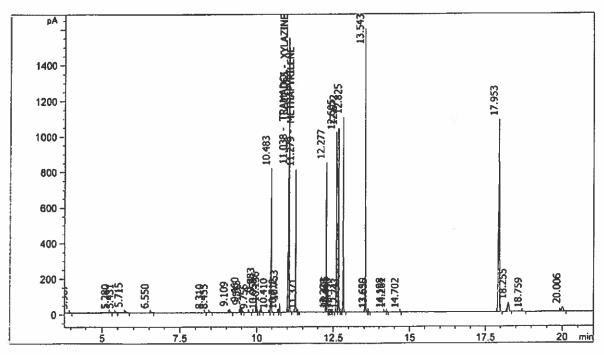
xylazine wu 11/17/22

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

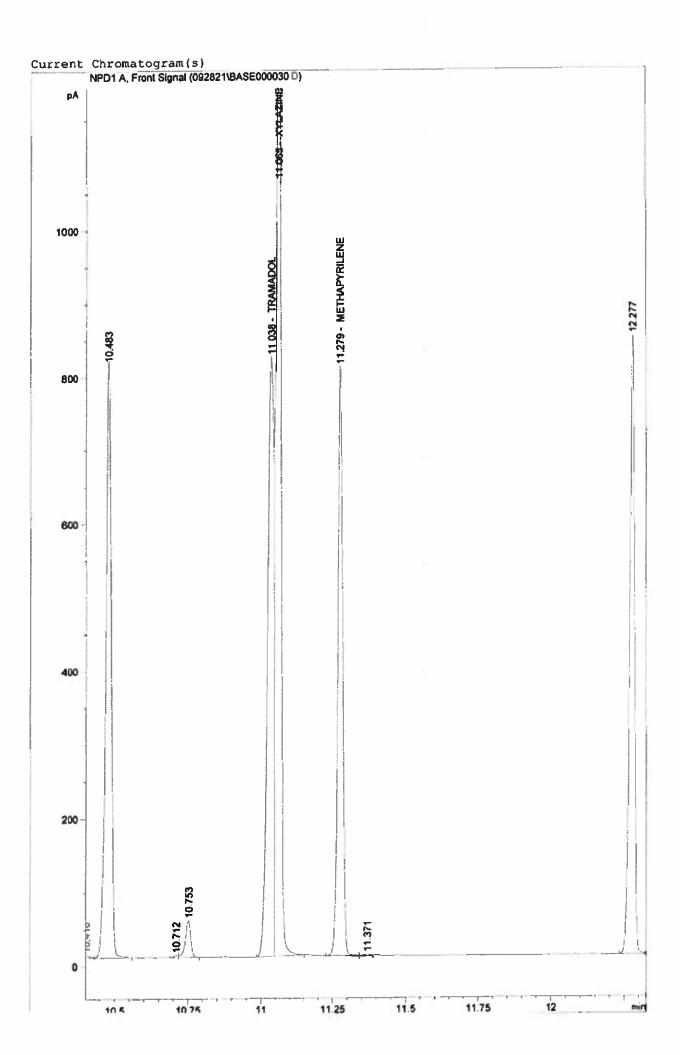
Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

	kp RT (min) Area	Height	Amount mg/L	Compound
11.065 11.	.033 1174.023 .046 1814.521 .278 916.308	814.611 1531.839 800.216	0.000000	TRAMADOL RRT-0.9786 XYLAZINE RRT-0.9810 METHAPYRILENE



Sample Information

Sample Name Instrument

Position

Operator

MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR

#3 - Enhanced

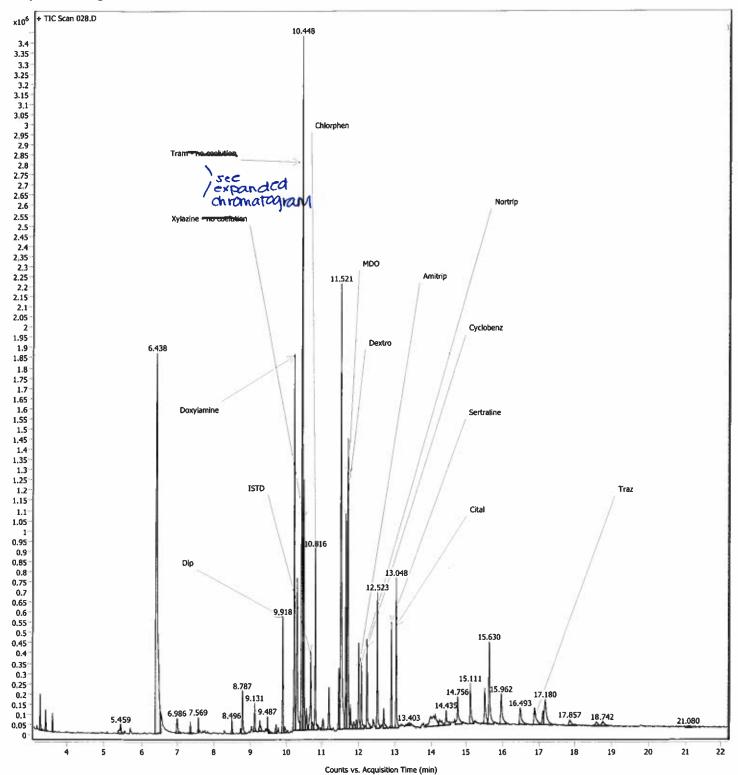
KM/QC DATA IN XYLAZINE VALIDATION

Data File Path

Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\028.D

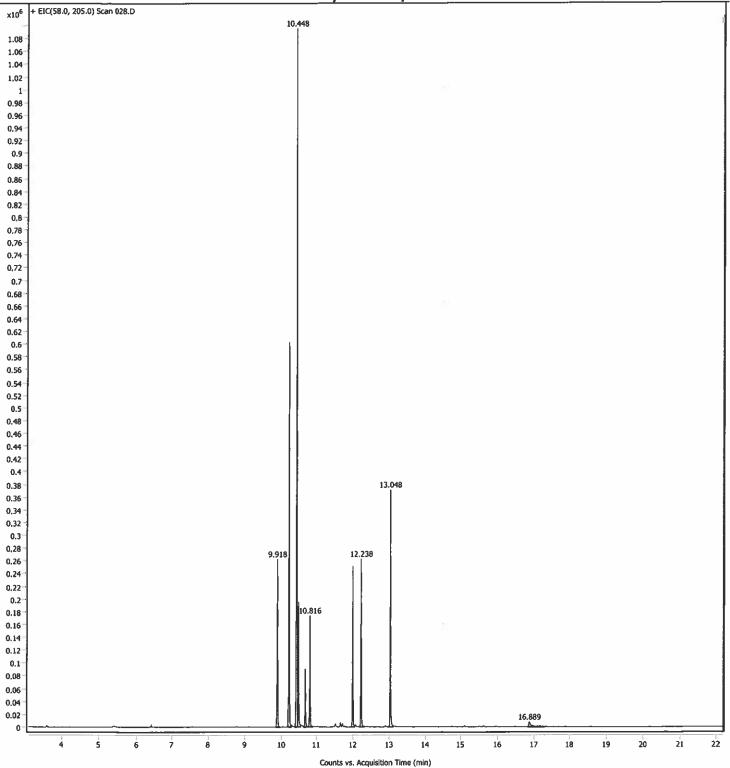
9/29/2021 2:09:52 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1,M

Sample Chromatograms



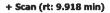




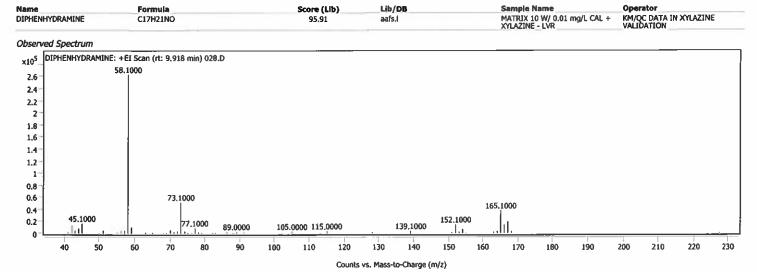


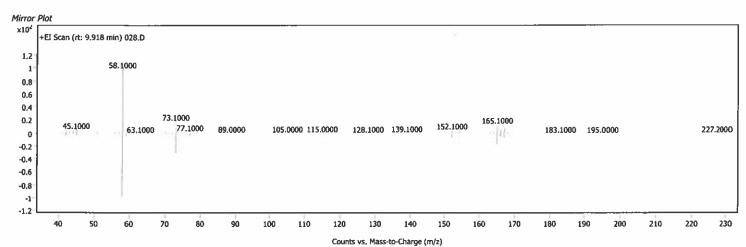


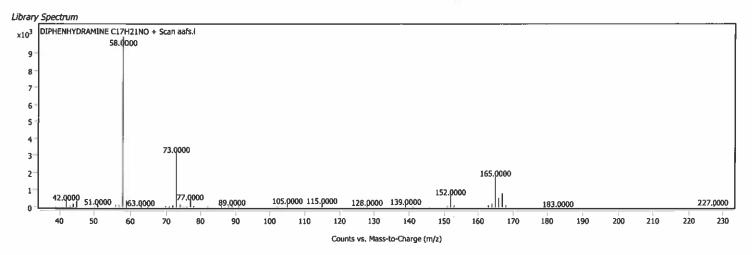
Sample Spectra



DIPHENHYDRAMINE; C17H21NO







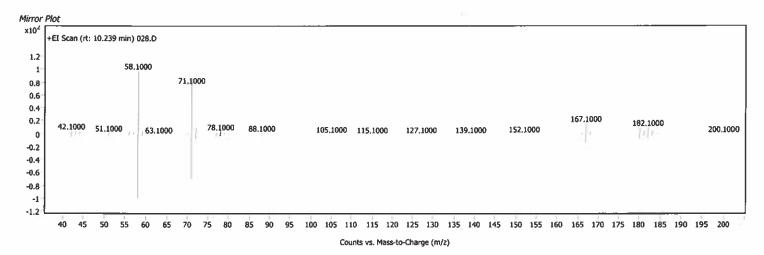
Doxylamine; C17H22N2O

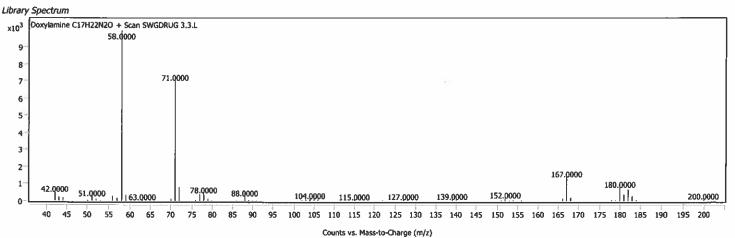
+ Scan (rt: 10.239 min)



LIb/DB Formula Score (Llb) Sample Name Operator MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR KM/QC DATA IN XYLAZINE VALIDATION SWGDRUG 3.3.L Doxylamine C17H22N2O 98.61 Observed Spectrum Doxylamine: +EI Scan (rt: 10.239 min) 028.D x10⁵ 58,1000 5.5 5 71.1000 4.5 4 3.5 3 2.5 2 1.5 167,1000 182.1000 42.1000 0.5 78.1000 51.1000 88,1000 105,1000 152,1000 200,1000 50 55 60 65 70 75 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200

Counts vs. Mass-to-Charge (m/z)





File :C:\Users\TOX\Desktop\092821\028.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

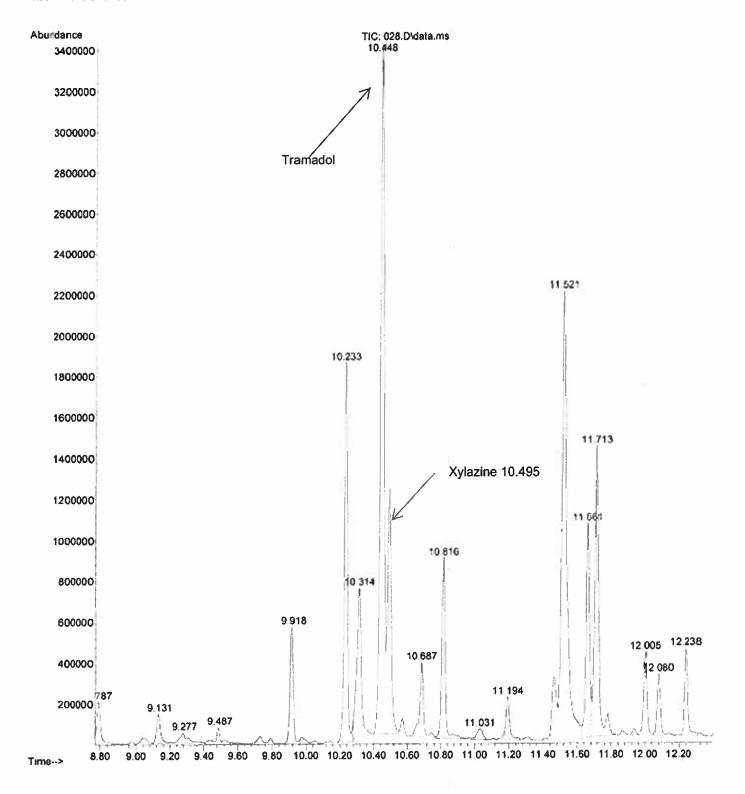
Acquired : 29 Sep 2021 02:09 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR

Misc Info : 2.0 mg/L - 400uL of 0.01 mg/mL Cal, plus 400uL 0.1 mg/mL XYLAZINE

Vial Number: 56



Library Searched : C:\MassHunter\Library\aafs.1

Quality

: 95 : TRAMADOL

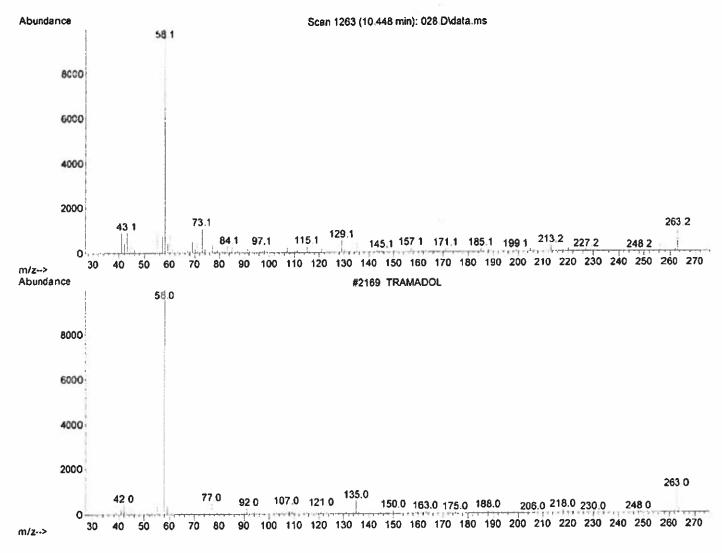
Sample Name: MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR

File: C:\Users\TOX\Desktop\092821\028.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 02:09

V1al: 56

ID



Library Searched : C:\MassHunter\Library\aafs.1

Quality

: 99

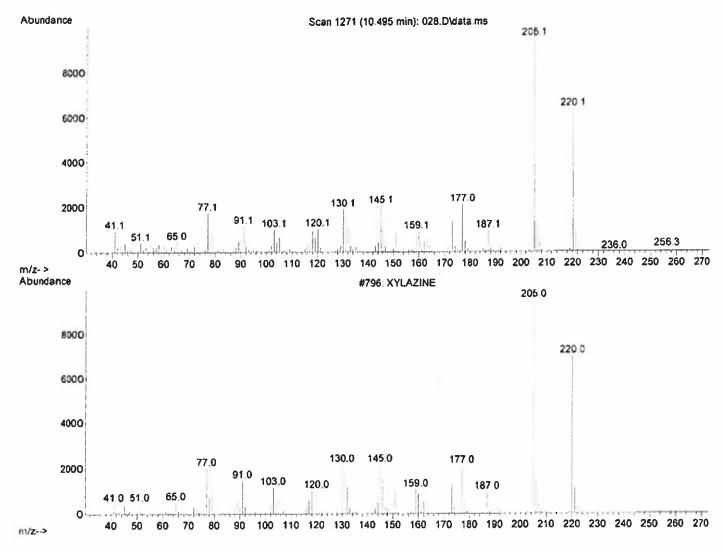
ID : XYLAZINE

Sample Name: MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR

File: C:\Users\TOX\Desktop\092821\028.D
Operator: KM/QC DATA IN XYLAZINE VALIDATION

Date Acquired: 29 Sep 2021 02:09

Vial: 56

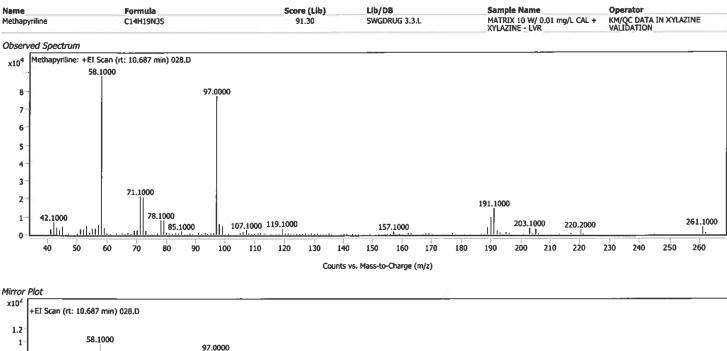


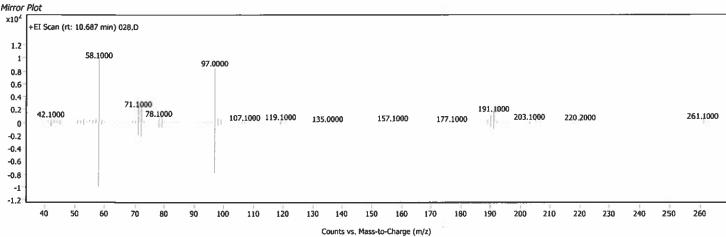
Methapyriline; C14H19N3S

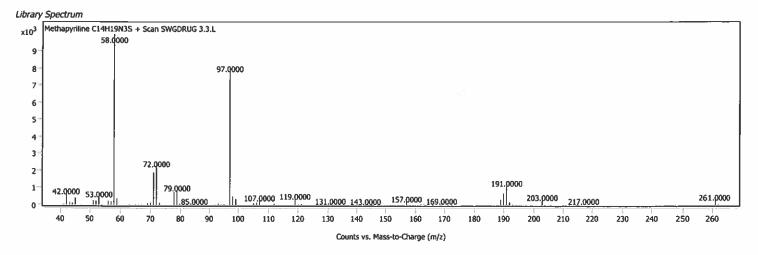
+ Scan (rt: 10.687 min)





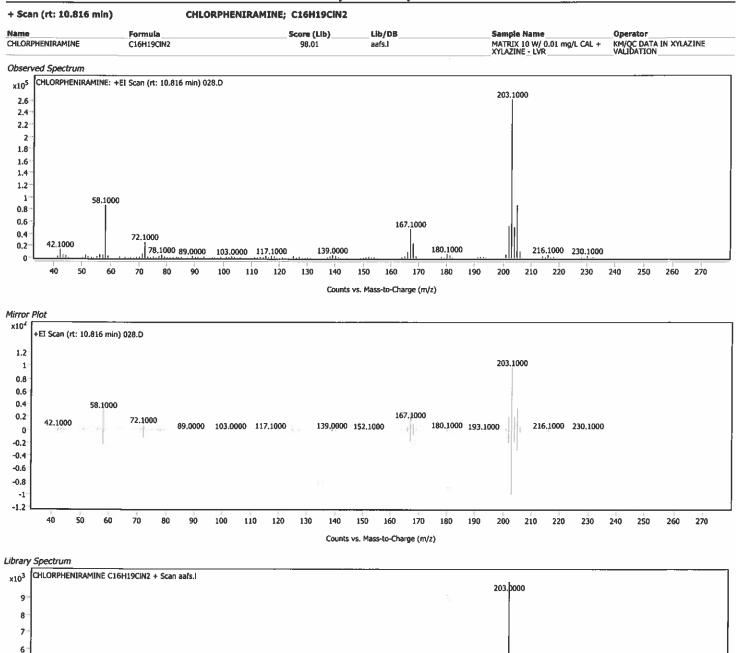












167,0000

180.0000 _{192,0000}

216.0000 230.0000

139.0000 152.0000

Counts vs. Mass-to-Charge (m/z)

42.0000

58.0000

72.0000

78.0000 89.0000

103.0000 115.0000

274.0000

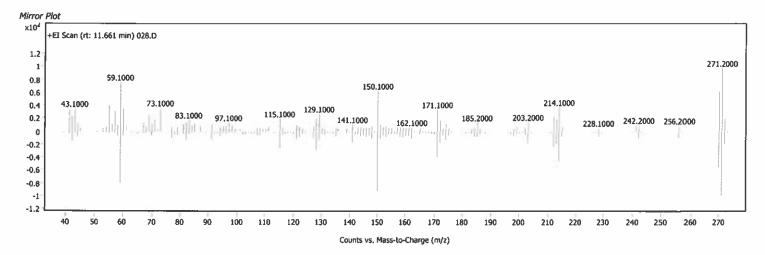
DEXTROMETHORPHAN; C18H25NO

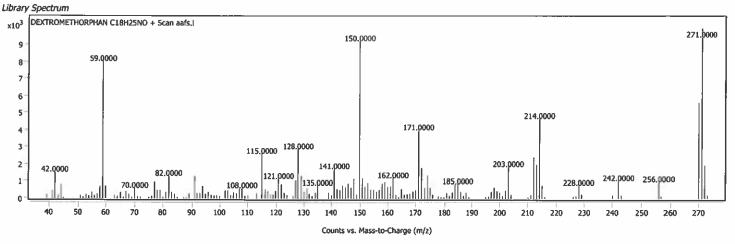
+ Scan (rt: 11.661 min)





Lib/DB Sample Name Name Score (Lib) Operator **Formula** DEXTROMETHORPHAN C18H25NO 80.14 MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR KM/QC DATA IN XYLAZINE VALIDATION aafs.l Observed Spectrum DEXTROMETHORPHAN: +EI Scan (rt: 11.661 min) 028.D x10⁴ 271.2000 6.5 5.5 59.1000 5 150.1000 4.5 3.5 3 214.1000 73.1000 43.1000 171.1000 2.5 129.1000 2 115.1000 1.5 83.1000 203,2000 97,1000 185,2000 242.2000 256.2000 141.1000 1 121,1000 162,1000 228.1000 135,1000 0.5 Maddalaaa 50 60 40 110 120 190 200 210 220 230 250 260 270 Counts vs. Mass-to-Charge (m/z)







Interest Addisonalis

+ Scan (rt: 11.713 min) METHADONE; C21H27NO Score (Lib) 93.19 Lib/DB Sample Name Operator Name Formula METHADONE MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR KM/QC DATA IN XYLAZINE VALIDATION C21H27NO aafs.l Observed Spectrum METHADONE: +EI Scan (rt: 11.713 min) 028.D x10⁵ 72.1000 7.5 6.5 6 5.5 4.5 4 3.5 3 2.5 2 1.5 42.1000 57.1000 91.1000 0.5 115,1000 165.1000 178,1000 223,1000 294,2000 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 290 300 310 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 +EI Scan (rt: 11.713 min) 028.D 1.2 72.1000 1 8.0 0.6 0.4 0.2 42.1000 57.1000 294.2000 309.2000 91,1000 115,1000 129,1000 152,1000 165,1000 178,1000 193,1000 208,1000 223,1000 236,2000 265,2000 -0.2 -0.4 -0.6 -0.8 -1 40 50 220 230 240 250 260 270 280 300 310 60 70 80 120 130 140 150 160 170 180 190 200 210 290 100 110 Counts vs. Mass-to-Charge (m/z) Library Spectrum METHADONE C21H27NO + Scan aafs.I x10³ 72.0000 6 3

 $152,0000 \\ 165,0000 \\ 178,0000 \\ 193,0000 \\ 208,0000 \\ 223,0000 \\ 236,0000 \\ 250,0000 \\ 265,0000 \\$

220 230

240 250 260 270

200 210

190

180 Counts vs. Mass-to-Charge (m/z)

2 1

O 40 50

44,0000 57.0000

70

91.0000

100 110 120 130

115,0000 129,0000

140 150 160 170

294.0000 309.0000

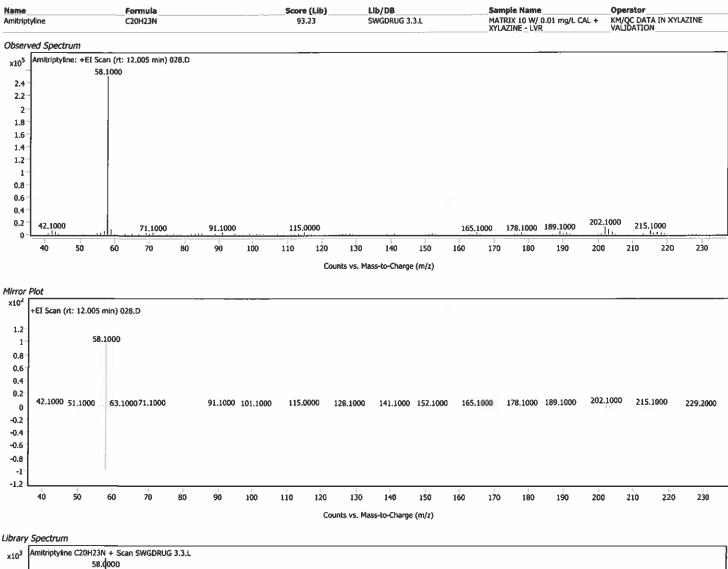
290 300 310

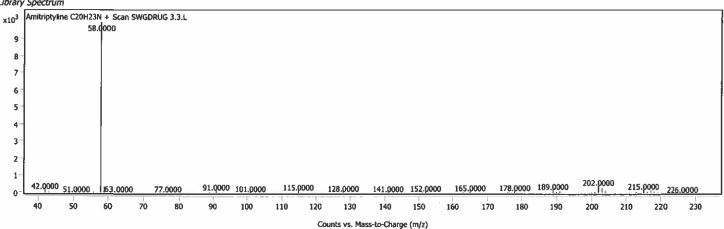
Amitriptyline; C20H23N

+ Scan (rt: 12.005 min)







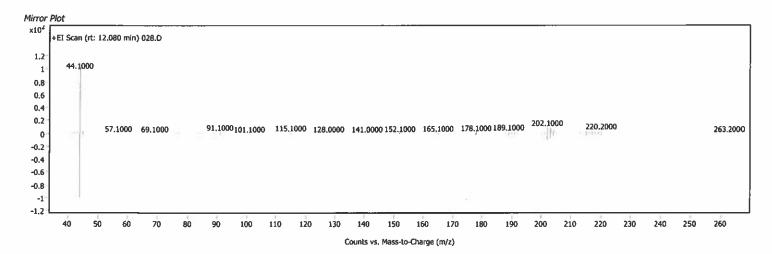


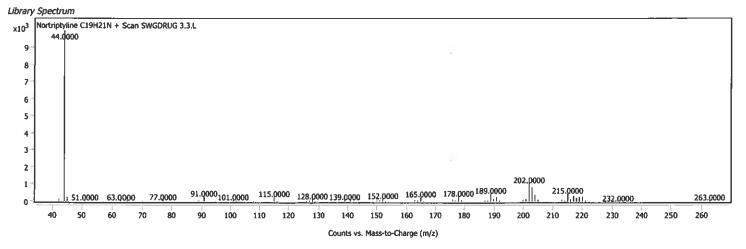
Nortriptyline; C19H21N

+ Scan (rt: 12.080 min)



LIb/DB Sample Name Name Formula Score (Lib) Operator KM/QC DATA IN XYLAZINE VALIDATION Nortriptyline C19H21N 92.78 SWGDRUG 3.3.L MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR Observed Spectrum Nortriptyline: +EI Scan (rt: 12,080 min) 028,D x10⁵ 44,1000 1.4 1.3 1.2 1.1 1 0.9 0.8 0.7 0.6 0.5 0.4 0.3 202.1000 0,2 220,2000 91,1000 101,1000 115,1000 128,0000 141,0000 152,1000 165,1000 178,1000 189,1000 0.1 57.1000 69.1000 263,2000 <u>.است.</u> 200 210 50 190 220 230 240 250 260 40 60 100 110 120 130 150 160 170 Counts vs. Mass-to-Charge (m/z)





CYCLOBENZAPRINE; C20H21N



Score (LIb) LIb/DB Sample Name Name Formula KM/QC DATA IN XYLAZINE VALIDATION CYCLOBENZAPRINE C20H21N 92.84 aafs.l MATRIX 10 W/ 0.01 mg/L CAL + XYLAZINE - LVR Observed Spectrum CYCLOBENZAPRINE: +EI Scan (rt: 12,238 min) 028.D x10⁵ 58,1000 2.6 2,4 2.2 2 1.8 1.6 1.4 1.2 8.0 0.6 0.4 215.1000 189,1000 202,1000 0.2 42.1000 228,1000 220 280 40 SO. 60 70 100 110 130 150 160 170 180 200 210 230 240 250 260 270 80 120 140 190 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ +EI Scan (rt: 12.238 min) 028.D 1.2 58.1000 1 0,8 0,6 0.4 0.2 163.0000 176.0000 189.1000 202.1000 215.1000 228.1000 42,1000 275,1000 115,1000 127,1000 139,1000 69,1000 94,7000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2



40

50

60

70

80

90

100

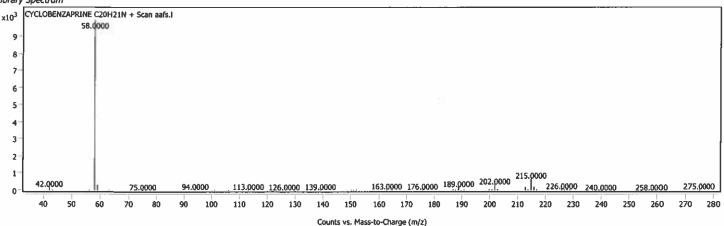
110

120

130

140

+ Scan (rt: 12.238 min)



150

170

160

Counts vs. Mass-to-Charge (m/z)

190

180

200

210

220

230

240

250

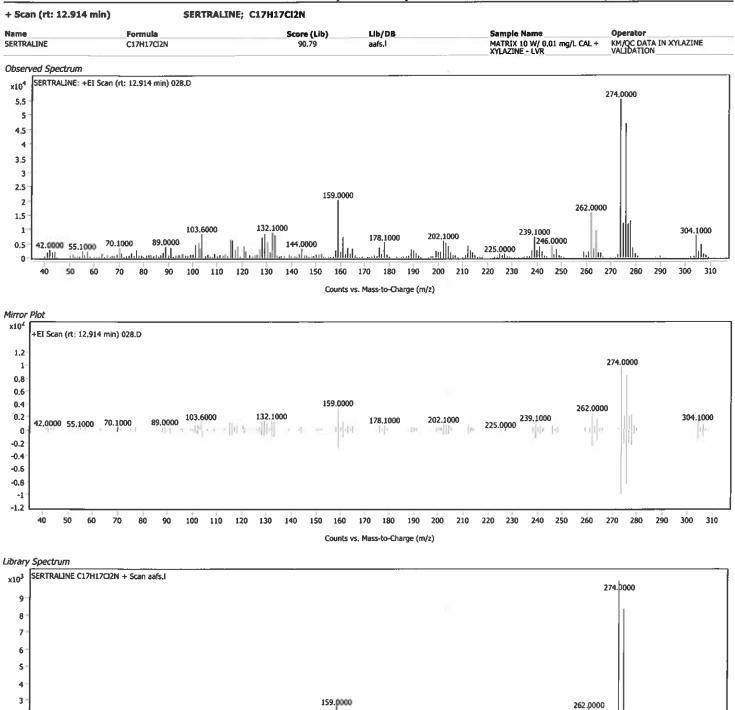
260

270

280



Brostery Activities



42,0000

104.0000

91,0000

70.0000

133,0000

144,0000

 304,0000

239.0000

227.0000

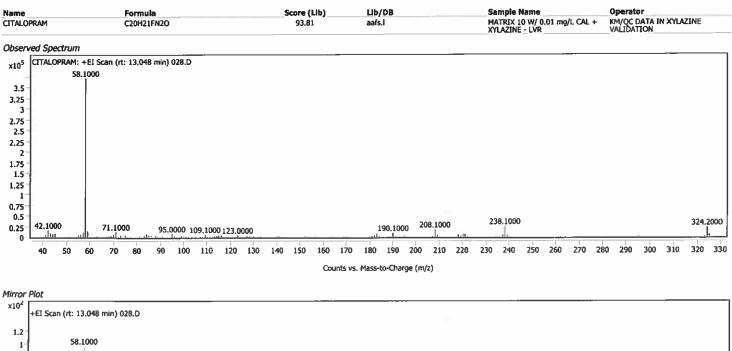
246,0000

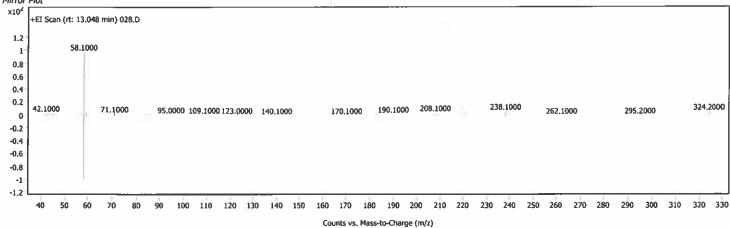
202.0000

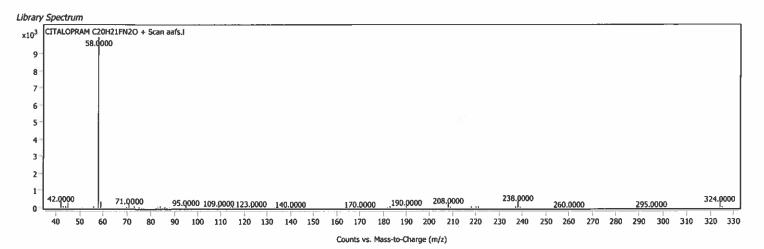
Counts vs. Mass-to-Charge (m/z) CITALOPRAM; C20H21FN2O

+ Scan (rt: 13.048 min)



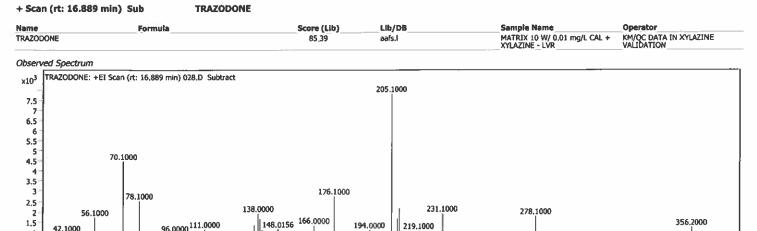








371,1000



Counts vs. Mass-to-Charge (m/z)

219,1000

264,9000

180 190 200 210 220 230 240 250 260 270 280 290 300 310 320 330 340 350 360 370

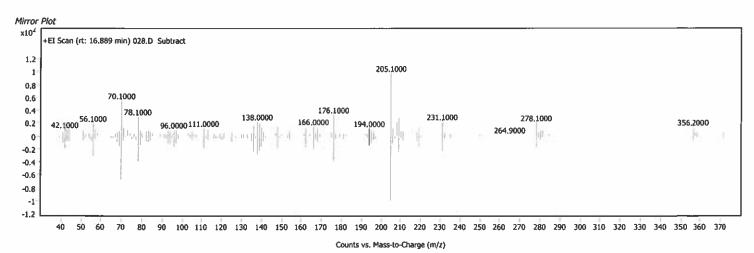
194.0000

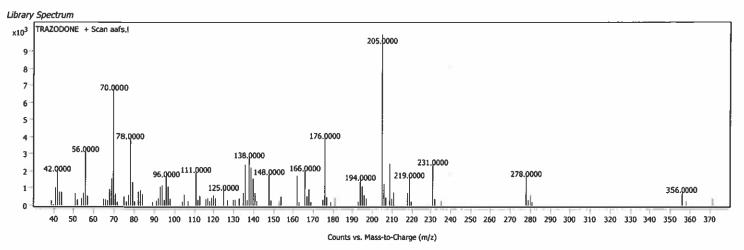
96.0000 111.0000

125,1000

150 160 170

42,1000







Sample Information

Sample Name Instrument

Position

Operator

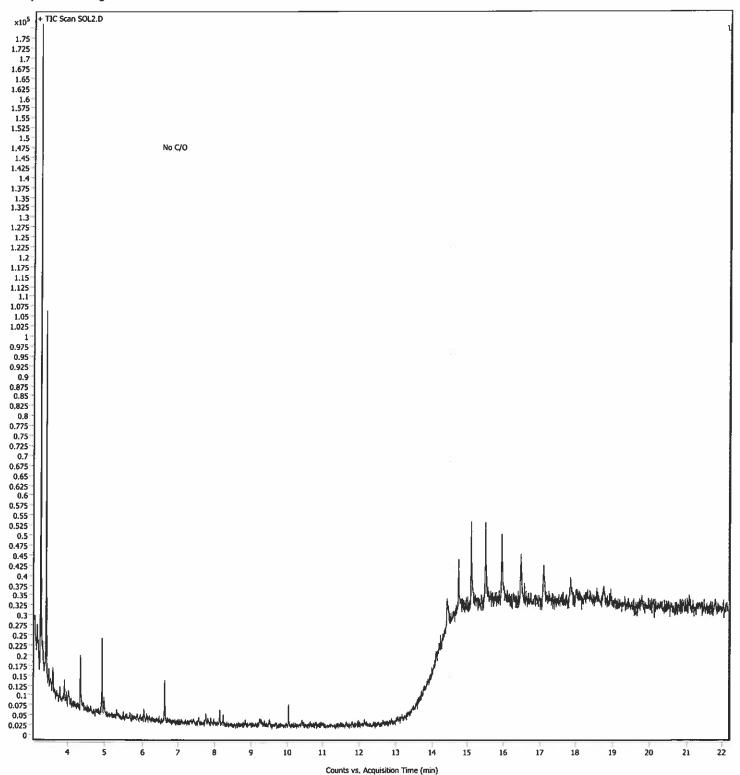
Solvent Blank 2

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL2.D 9/29/2021 2:35:40 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



Sample Information

Sample Name

MATRIX 2 W/ IH CTL + XYLAZINE Data File Path - BLD

Instrument Position

Operator

#3 - Enhanced

59

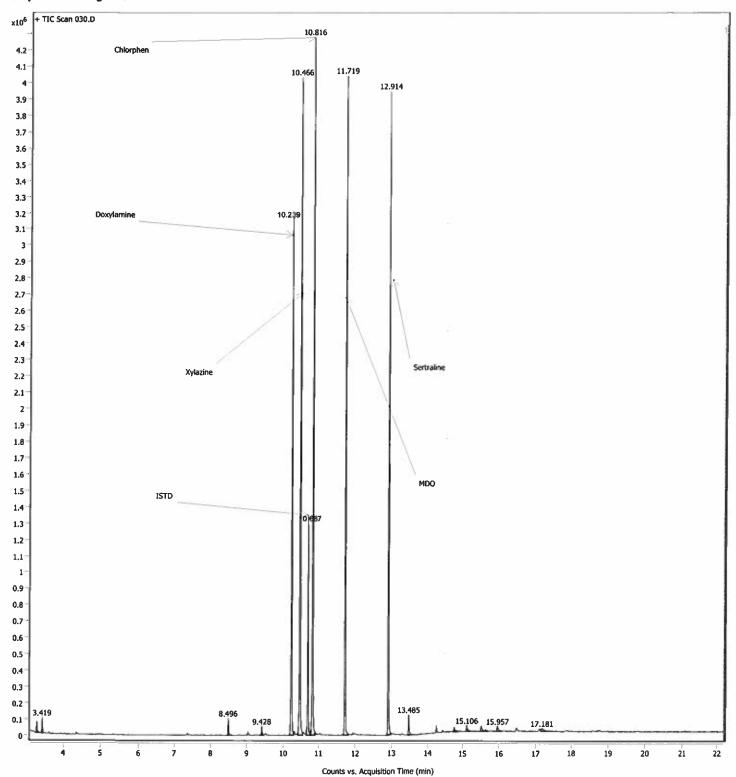
Enhanced Acq, Time (Local)
Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

C:\MassHunter\GCMS\1\data\BASES\092821\030.D

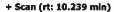
9/29/2021 3:27:19 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



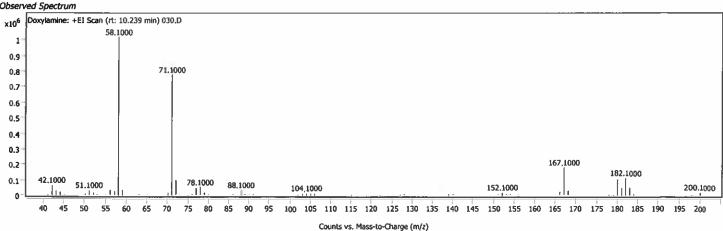


Sample Spectra

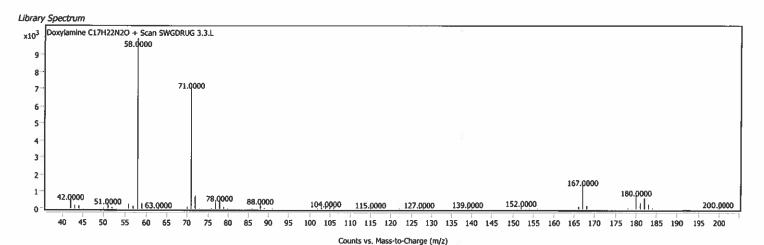


Doxylamine; C17H22N2O



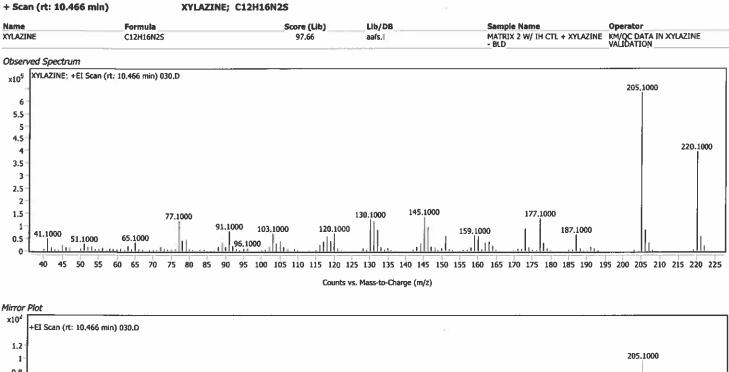


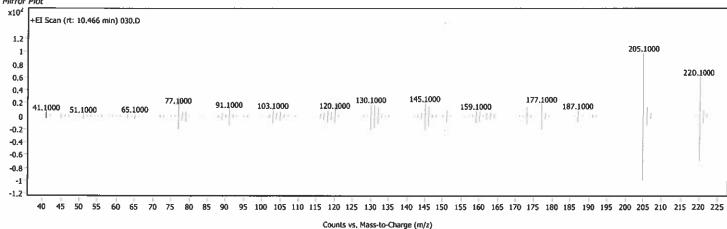
Mirror Plot x10² EI Scan (rt: 10.239 min) 030.D 1.2 58.1000 71,1000 8.0 0.6 0.4 0.2 167.1000 182,1000 42.1000 51.1000 78.1000 200.1000 63.1000 104,1000 115,1000 127,1000 139 1000 152,1000 0 -0.2 -0.4 -0.6 -0.8 -1.2 50 55 60 70 75 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 80 85 90 95 Counts vs, Mass-to-Charge (m/z)

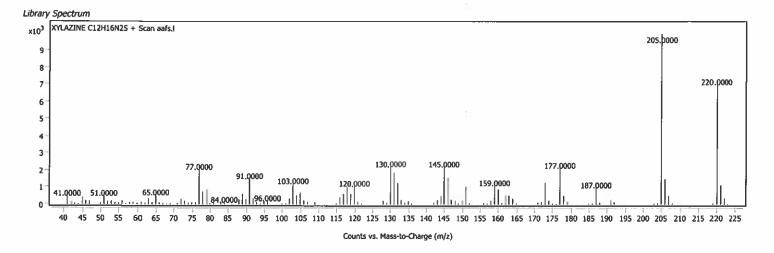




Supire Stance





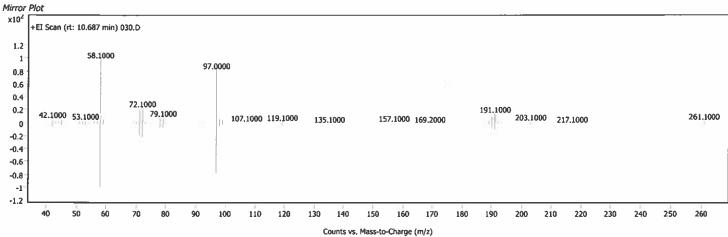


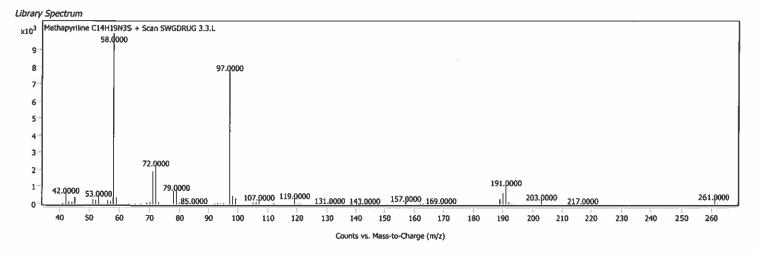
Methapyrlline; C14H19N3S

+ Scan (rt: 10.687 min)



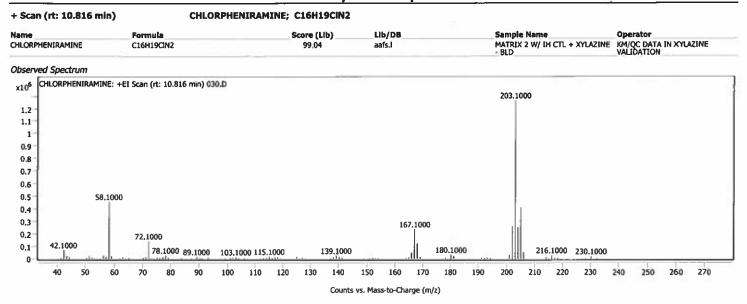
Score (Lib) LIb/DB Sample Name Name Formula Operator Methapyriline MATRIX 2 W/ IH CTL + XYLAZINE - BLD KM/QC DATA IN XYLAZINE VALIDATION C14H19N3S 98.39 SWGDRUG 3.3.L Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 030,D x10⁵ 58.1000 3.5 3.25 97.0000 3 2.75 2.25 1.75 1.5 1.25 72.1000 0.75 191.1000 0.5 79,1000 42.1000 53.1000 107.1000 119.1000 261,1000 0.25 203,1000 157,1000 .ul..ul 50 60 90 100 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z)

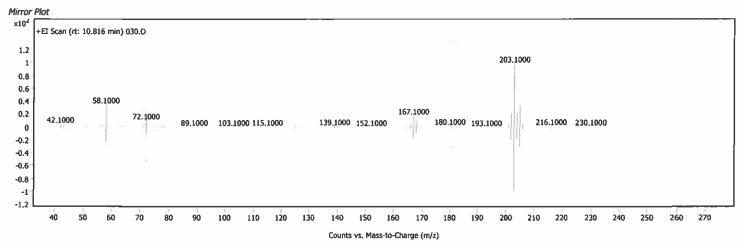


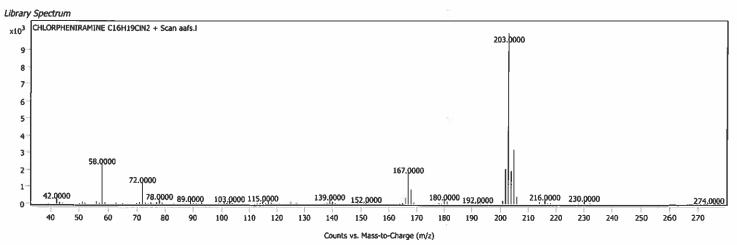










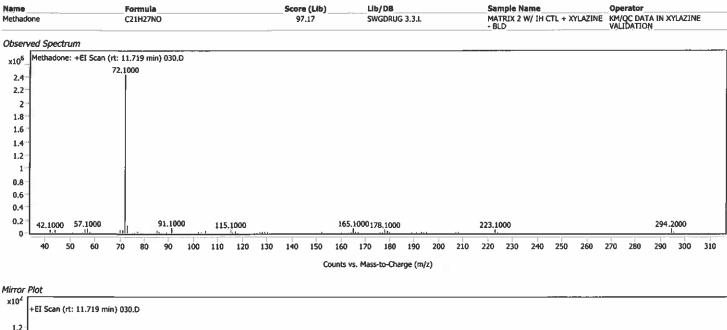


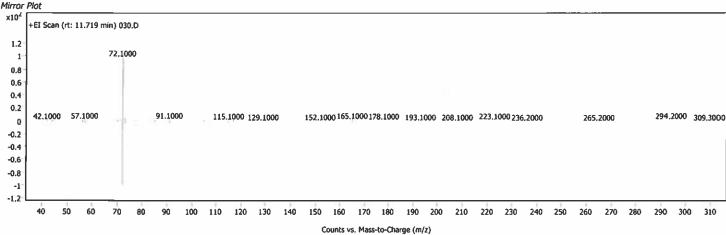
Methadone; C21H27NO

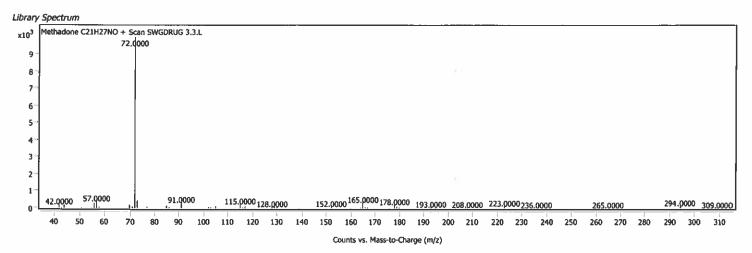
+ Scan (rt: 11.719 min)



Hamiter Analysis





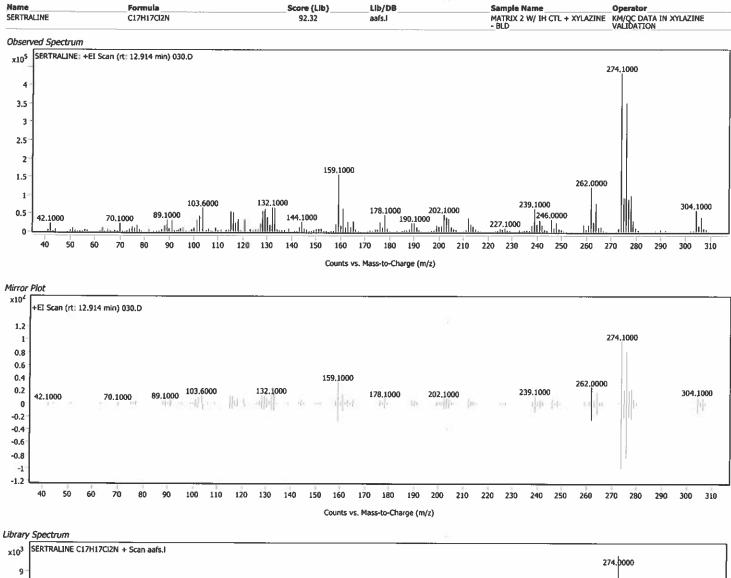


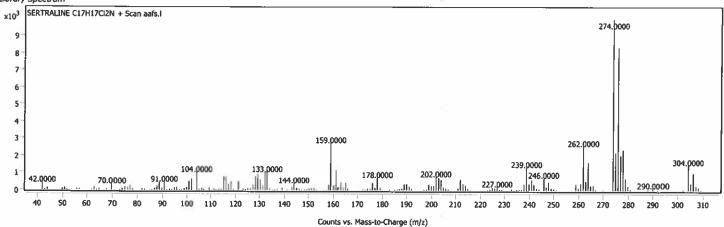
SERTRALINE; C17H17Cl2N

+ Scan (rt: 12.914 min)









Injection Date: Sample Name: 9/29/2021

3:08:08 AM

Seq Line:

34 Vial 35

Sample Info:

MATRIX 2 W/ IH CTL + ->

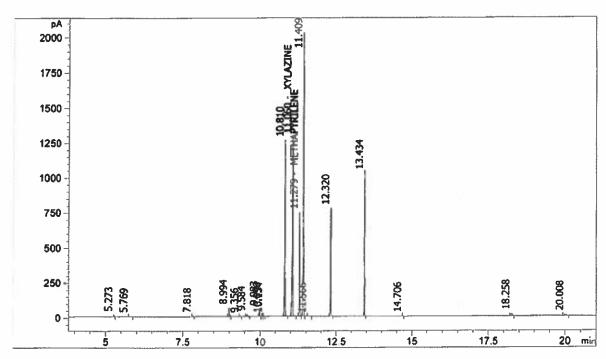
xylazine ku 11/17/22

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.060	11.046	1849.875	1285.788	0.000000	XYLAZINE
11.279	11.278	867.967	742.619	1.000000	METHAPYRILENE





Sample Information

Sample Name Instrument

Position

Operator

MATRIX 1 W/ IH CTL + XYLAZINE Data File Path - BLD

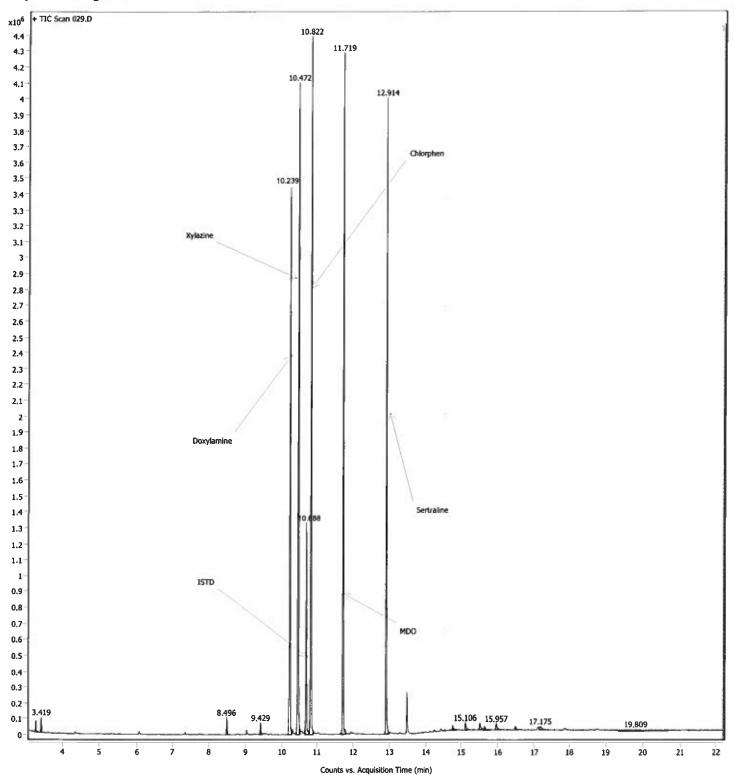
#3 - Enhanced

Acq. Time (Local)

Method Path (Acq) KM/QC DATA IN XYLAZINE VALIDATION

C;\MassHunter\GCMS\1\data\BASES\092821\029.D

9/29/2021 3:01:26 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M





Agilent have Aramer

200,1000

195 200

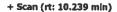
Sample Spectra

0.1

51,1000

55

65

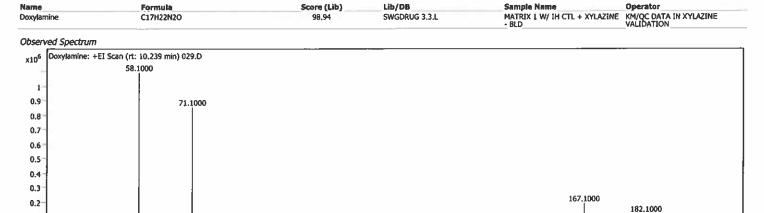


Doxylamine; C17H22N2O

78.1000

88,1000

105,1000



Counts vs. Mass-to-Charge (m/z)

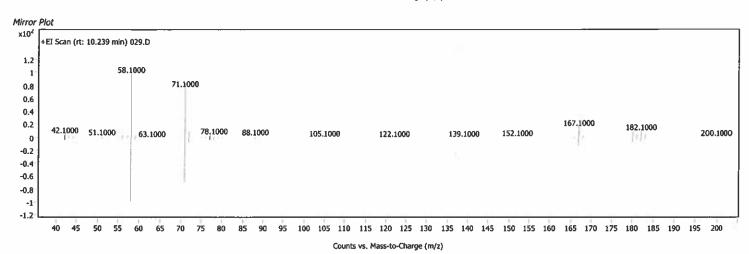
100 105 110 115 120 125 130 135 140 145 150 155 160

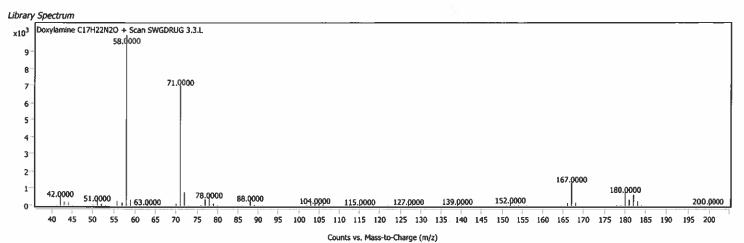
152,1000

165 170

180

190



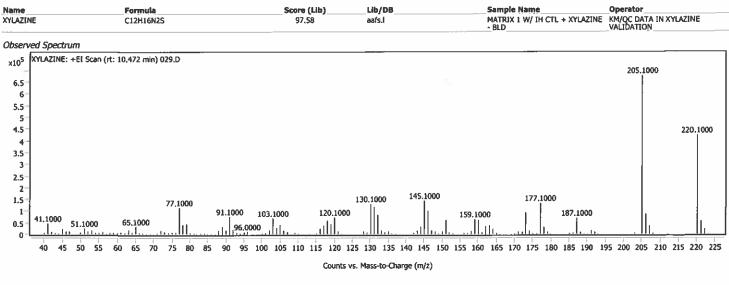


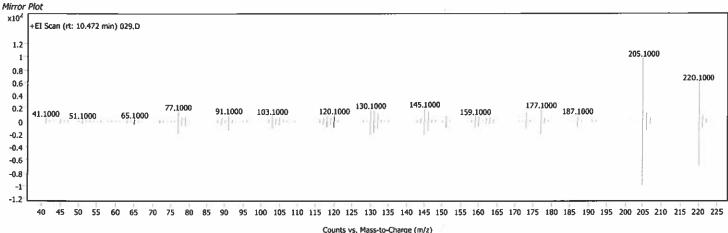
XYLAZINE; C12H16N2S

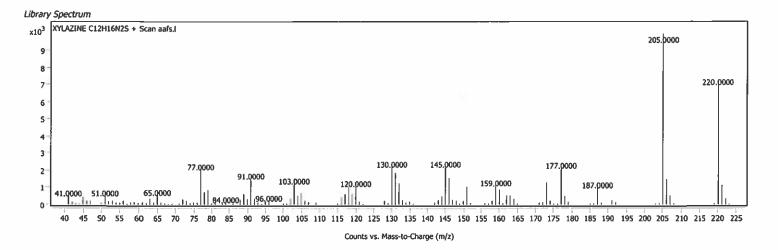
+ Scan (rt: 10.472 min)





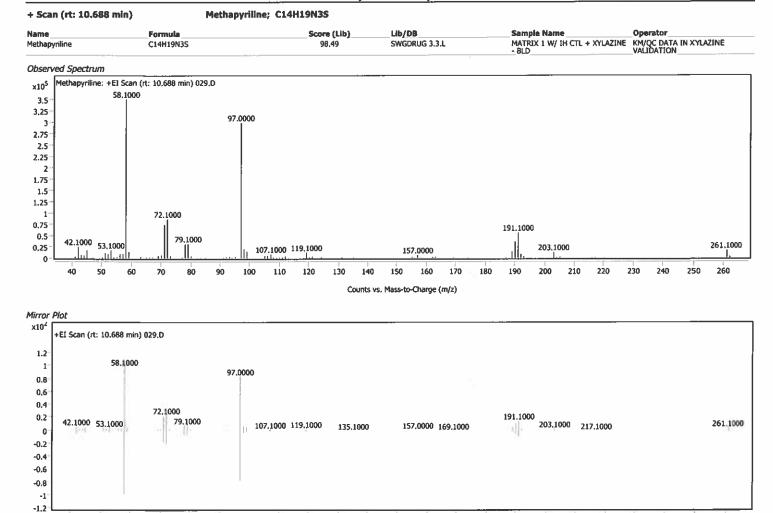


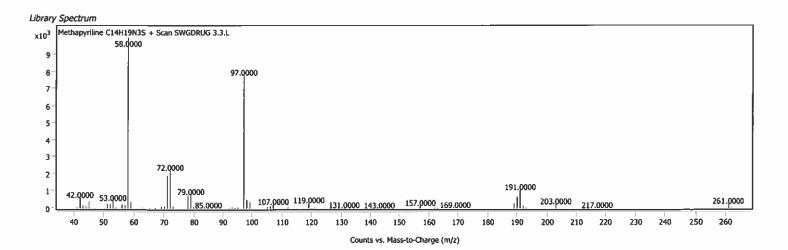








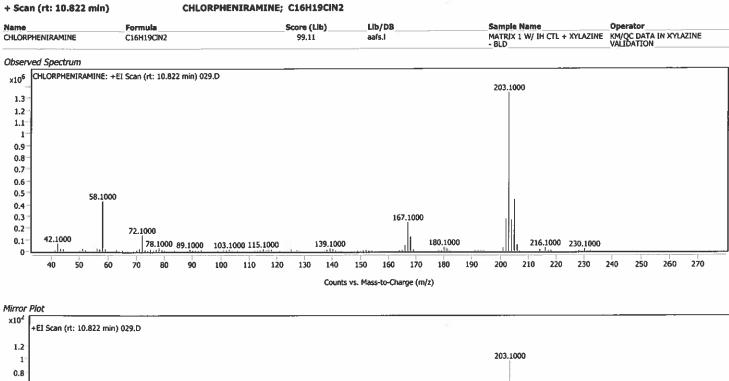


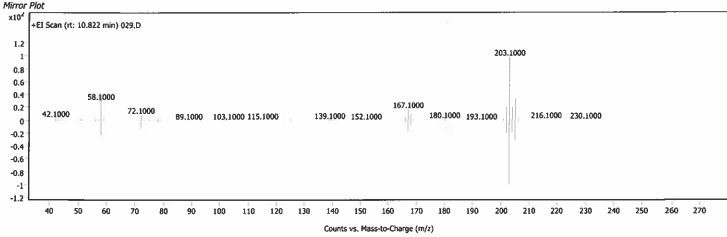


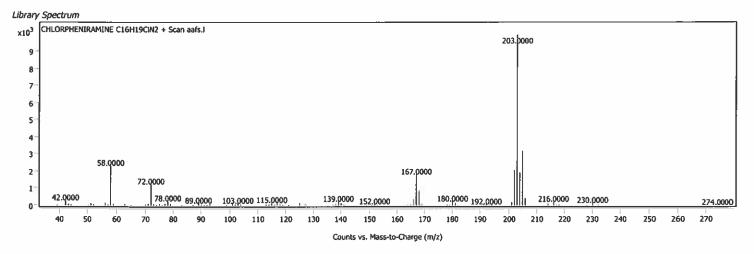
Counts vs. Mass-to-Charge (m/z)









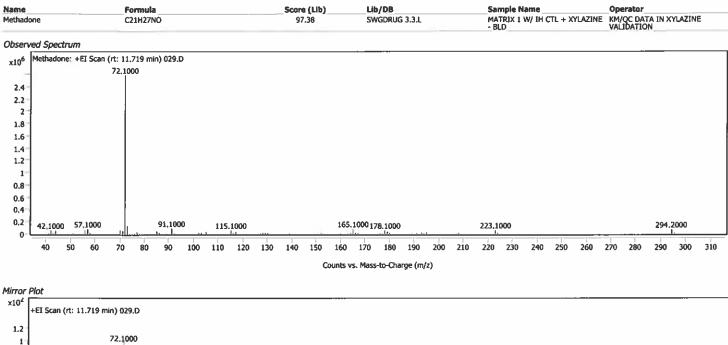


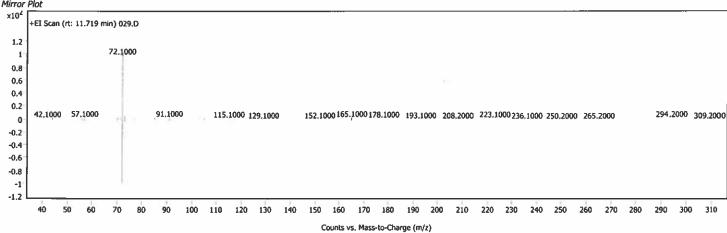
Methadone; C21H27NO

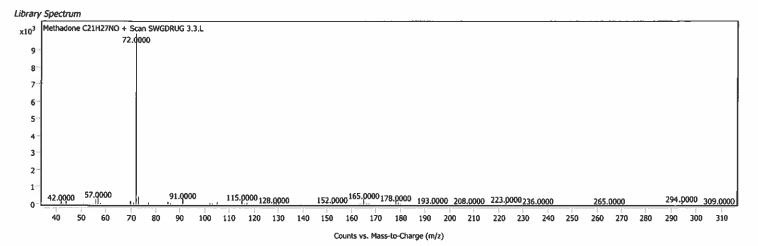
+ Scan (rt: 11.719 min)















+ Scan (rt: 12.914 min) SERTRALINE; C17H17Cl2N Name Formula Score (Lib) LIb/DB Sample Name Operator MATRIX 1 W/ IH CTL + XYLAZINE - BLD KM/QC DATA IN XYLAZINE VALIDATION SERTRALINE C17H17Cl2N 92.27 aafs.l Observed Spectrum SERTRALINE: +EI Scan (rt: 12,914 min) 029,D x10⁵ 274,1000 3.5 3 2.5 2 159.0000 1.5 262.0000 103.6000 132,1000 239.1000 304.1000 202.1000 178.1000 0.5 246.0000 89.1000 42.1000 144.1000 70,1000 227.1000 100 110 130 140 150 160 220 230 250 260 290 310 270 300 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 +EI Scan (rt: 12.914 min) 029.D 1.2 274.1000 8.0 0.6 159,0000 0.4 262.0000 132,1000 0.2 103.6000 239.1000 304,1000 178.1000 202,1000 42.1000 70.1000 151.1000 191 1 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 50 130 140 150 160 220 230 250 310 290 300 Counts vs. Mass-to-Charge (m/z) Library Spectrum SERTRALINE C17H17Cl2N + Scan aafs.I x10³ 274.0000 6 5

159,0000

160

178,0000

Counts vs. Mass-to-Charge (m/z)

202.0000

200

133,0000

144,0000

3

2

42.0000

40 50

70.0000

70

91,0000

100 110 120 130 140

304.0000

290,0000

262,0000

260 270

239,0000

227,0000

220

246,0000

33

Injection Date: Sample Name:

9/29/2021

2:43:44 AM

Seq Line:

Vial 34

Sample Info:

MATRIX 1 W/ IH CTL + ->

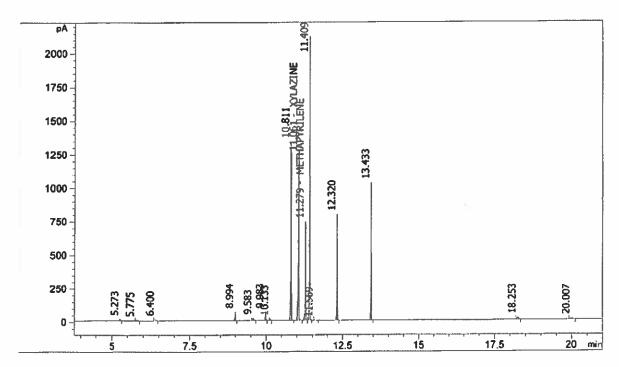
xylazine KM 11/17/22

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound	
0.000 11.061 11.279	11.033 11.046 11.278	0.000 1873.649 851.543	0.000 1242.294 738.420	0.000000	TRAMADOL XYLAZINERRT-0.9807 METHAPYRILENE	

Sample Information

Sample Name

Position

Operator

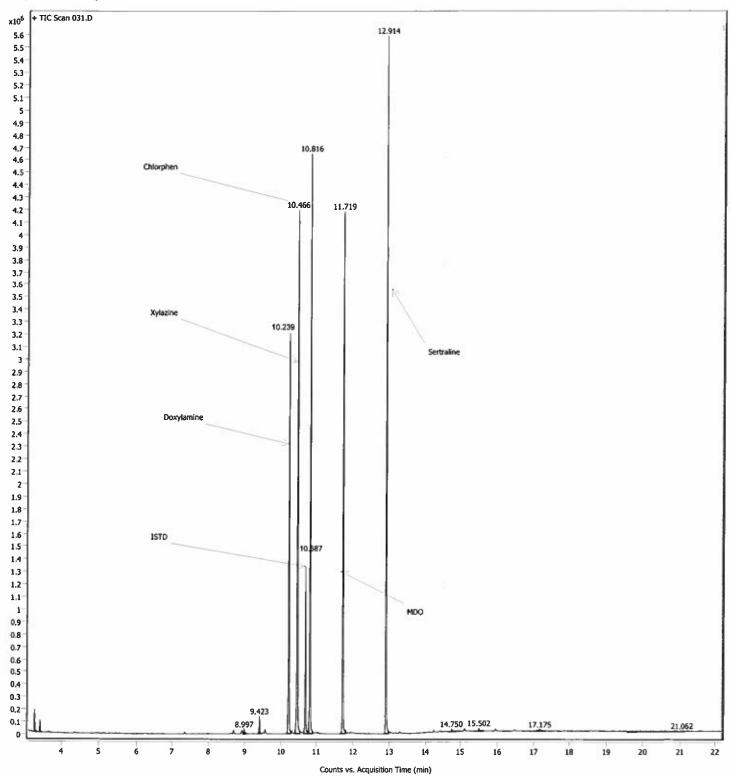
Instrument

MATRIX 6 W/ IH CTL + XYLAZINE Data File Path - URN 43 - Enhanced Acq. Time (Loc Acq. Time (Local) Method Path (Acq)

KM/QC DATA IN XYLAZINE VALIDATION

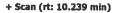
C:\MassHunter\GCMS\1\data\BASES\092821\031.D

9/29/2021 3:53:06 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M



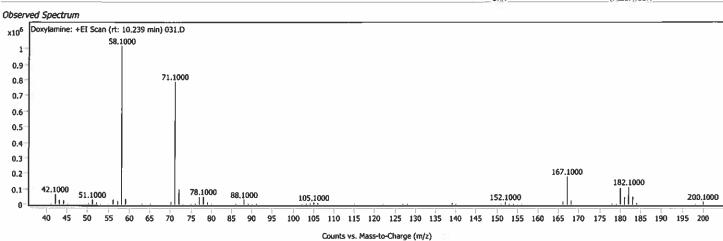


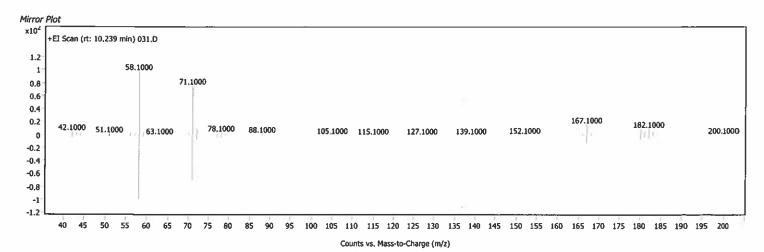
Sample Spectra

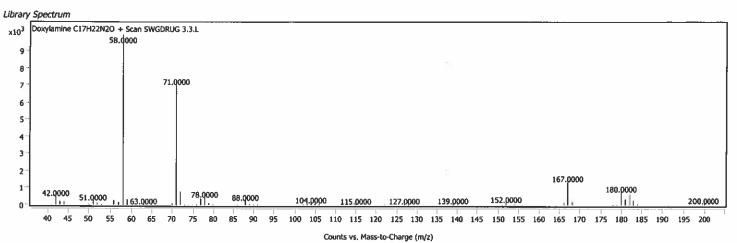


Doxylamine; C17H22N2O



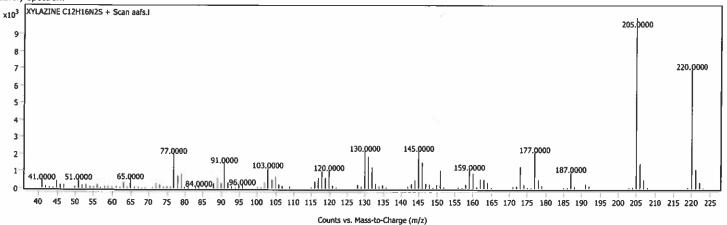








+ Scan (rt: 10.466 min) XYLAZINE; C12H16N2S Score (Lib) 97.58 Name Formula LIb/DB Sample Name Operator MATRIX 6 W/ IH CTL + XYLAZINE - URN XYLAZINE KM/QC DATA IN XYLAZINE VALIDATION C12H16N2S aafs.l Observed Spectrum XYLAZINE: +EI Scan (rt: 10.466 min) 031.D x10⁵ 205,1000 6.5 6 5.5 5 4.5 220.1000 3,5 3 2.5 2 145.1000 177.1000 1.5 130.1000 77,1000 91.1000 1 103.1000 120.1000 41.1000 51.1000 159.1000 187.2000 65,1000 0.5 96,0000 50 55 60 65 100 105 110 115 120 125 130 135 140 145 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 +EI Scan (rt: 10.466 min) 031.D 1.2 205.1000 1 0.8 220,1000 0.6 0.4 120,1000 130.1000 145,1000 177.1000 0.2 77,1000 91.1000 103,1000 159,1000 187,2000 41.1000 51.1000 65.1000 -0.2 -0.4 -0.6 -0.8 -1 -1.2 55 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 60 65 70 75 80 85 Counts vs. Mass-to-Charge (m/z) Library Spectrum

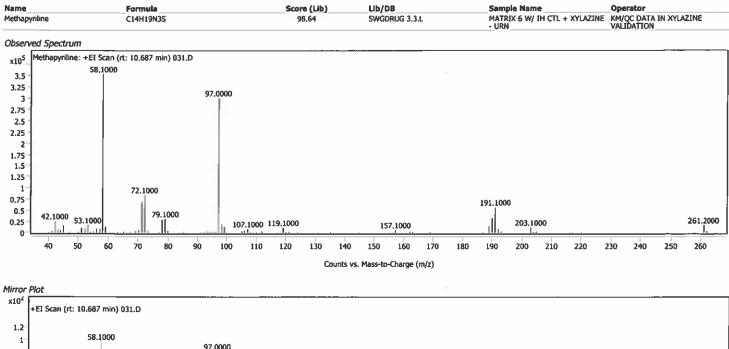


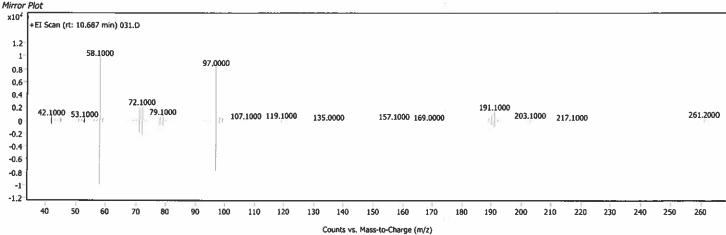
Methapyriline; C14H19N3S

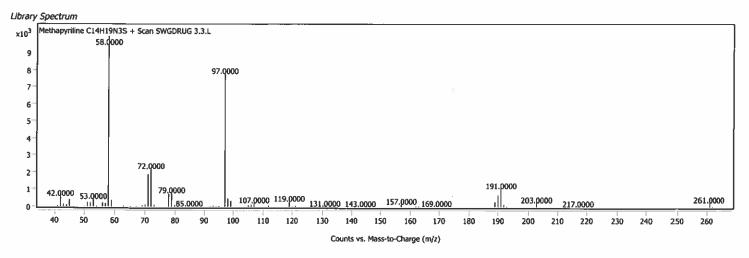
+ Scan (rt: 10.687 min)









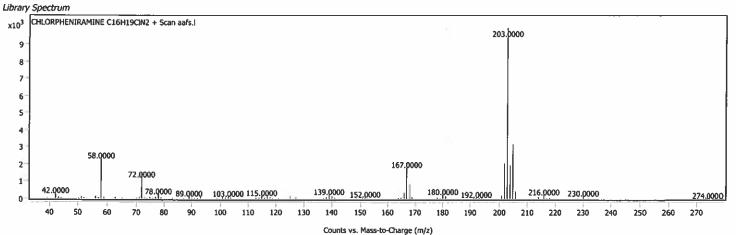


CHLORPHENIRAMINE; C16H19CIN2

+ Scan (rt: 10.816 min)

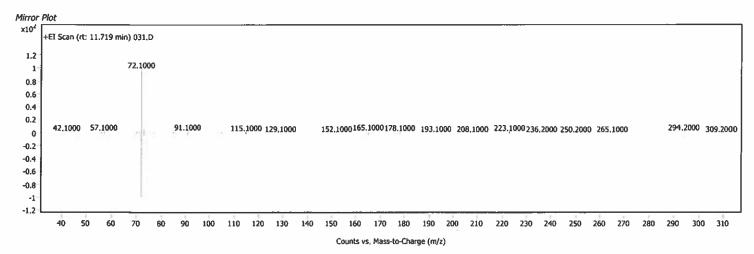


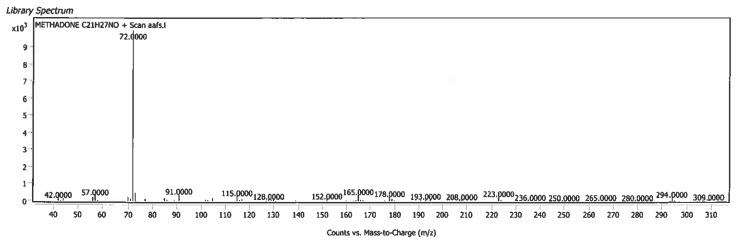
LIb/DB Formula Score (Lib) Sample Name Operator CHLORPHENIRAMINE C16H19CIN2 99.02 aafs.l MATRIX 6 W/ IH CTL + XYLAZINE - URN KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum CHLORPHENIRAMINE: +EI Scan (rt: 10.816 min) 031.D x10⁶ 203,1000 1.3 1.2 1.1 0.9 0.8 0.7 0.6 58.1000 0.5 0.4 0.3 167.1000 72,1000 0.2 42,1000 0,1 78.1000 89.1000 180.1000 139.1000 216,1000 230,1000 103,1000 115,1000 0 40 270 50 100 110 120 130 140 150 160 180 190 200 210 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ +EI Scan (rt: 10.816 min) 031,D 1.2 203.1000 1 8.0 0.6 58,1000 0.4 167,1000 0,2 72.1000 42,1000 180.1000 193.1000 216.1000 230.1000 89.1000 103.1000 115.1000 139.1000 152,1000 0 -0.2 -0.4 -0.6 -0.8 -1.2 40 50 60 70 80 90 100 110 120 130 170 200 210 220 230 250 260 270 140 150 160 180 190 240 Counts vs. Mass-to-Charge (m/z)





METHADONE; C21H27NO + Scan (rt: 11.719 min) Score (Llb) LIb/DB Operator MATRIX 6 W/ IH CTL + XYLAZINE KM/QC DATA IN XYLAZINE - URN VALIDATION METHADONE C21H27NO 97.07 aafs.l Observed Spectrum METHADONE: +EI Scan (rt: 11,719 min) 031,D x10⁶ 72.1000 2.2 2 1.8 1.6 1.4 1.2 1 8.0 0.6 0.4 0.2 42.1000 57.1000 91,1000 165,1000178,1000 223,1000 294.2000 115,1000 190 210 220 230 250 260 270 300 310 40 50 60 70 90 100 110 120 130 140 150 160 170 180 200 240 280 290 Counts vs. Mass-to-Charge (m/z)



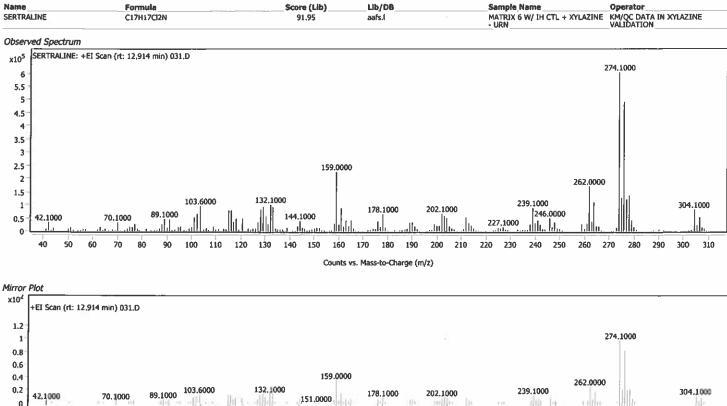


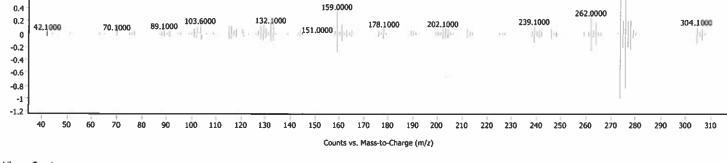
SERTRALINE; C17H17Cl2N

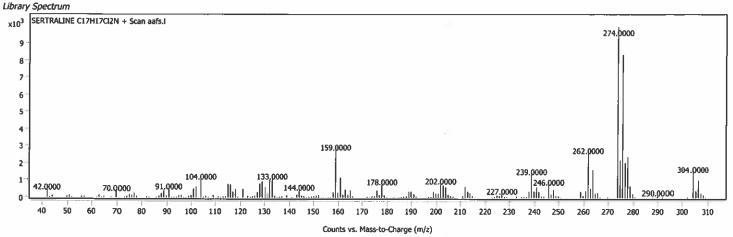
+ Scan (rt: 12.914 min)



Transfer to Secure







35

Injection Date: Sample Name:

9/29/2021

3:32:25 AM

Seq Line:

Vial 36

Sample Info:

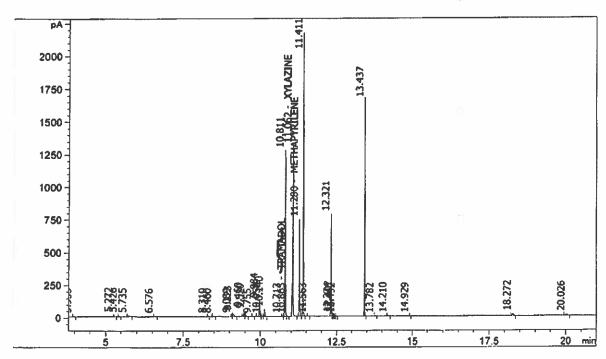
MATRIX 6 W/ IH CTL + -> xylazine minizz

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
10.865	11.033	5.261	2.911	0.000000	TRAMADOL ND
11.062	11.046	1934.194	1307.255		XYLAZINE RRT-0.9807
11.280	11.278	869.681	740.347		METHAPYRILENE

Sample Information

Sample Name

Position

Operator

MATRIX 10 W/ IH CTL + XYLAZINE Data File Path - LVR

#3 - Enhanced Instrument

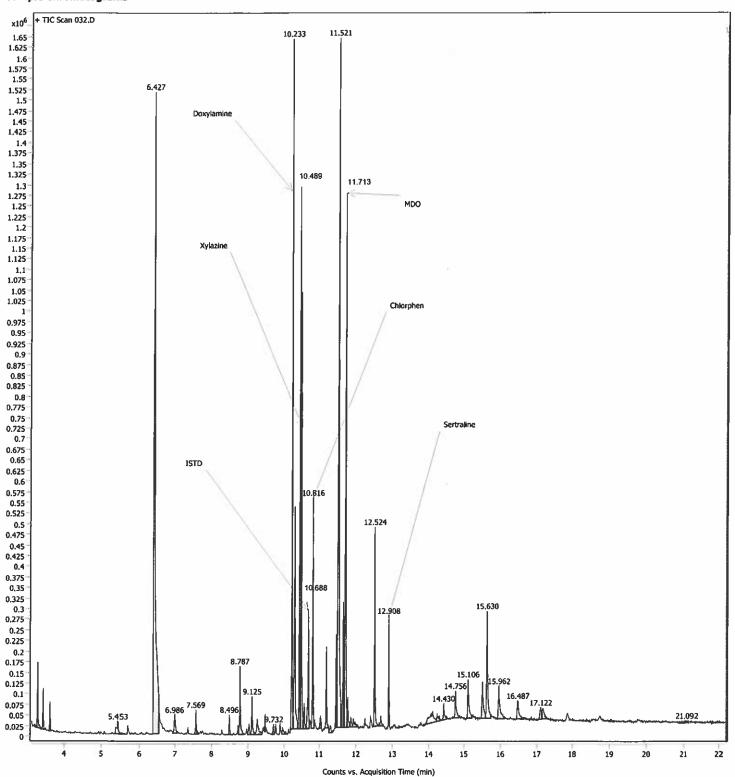
KM/QC DATA IN XYLAZINE VALIDATION

Acq. Time (Local)

Method Path (Acq)

C:\MassHunter\GCM5\1\data\BASES\092821\032.D

9/29/2021 4:18:53 AM (UTC-04:00) $C:\MassHunter\GCM5\1\methods\ALKALI.M$



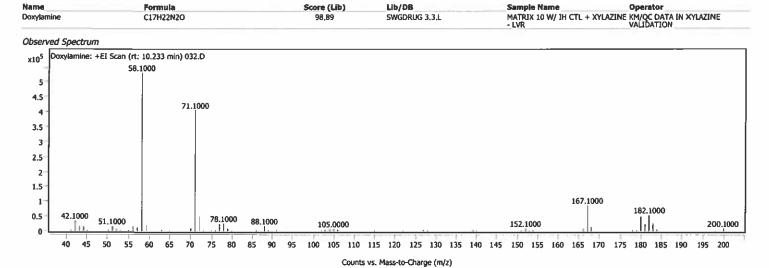


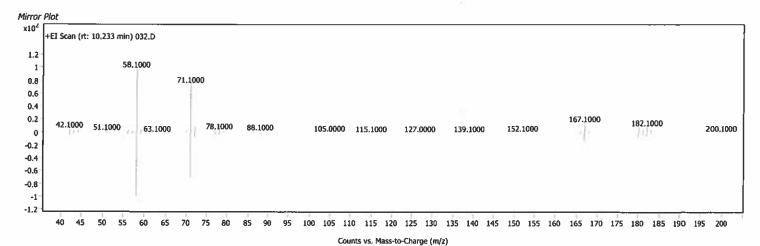


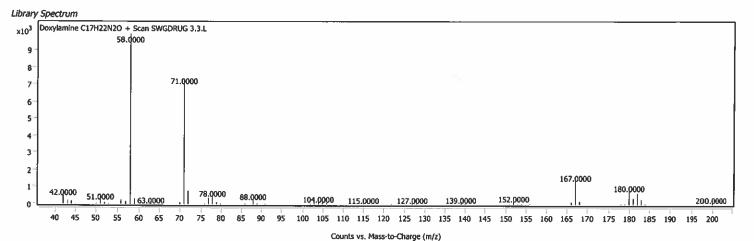
Sample Spectra

+ Scan (rt: 10.233 min)

Doxylamine; C17H22N2O

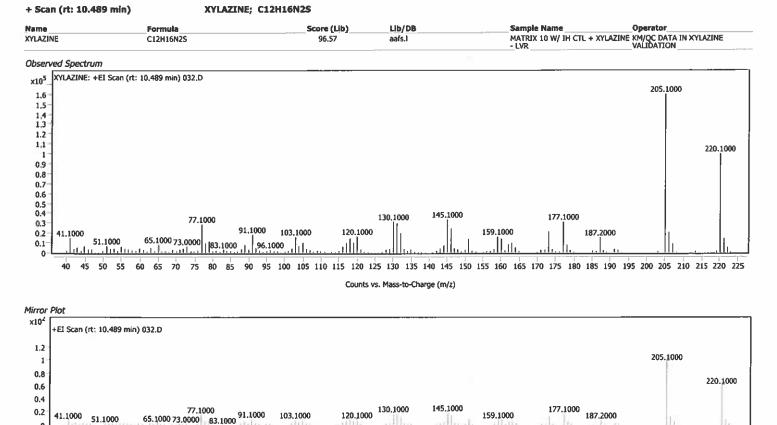












50 55 60 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 45 Counts vs. Mass-to-Charge (m/z)

77,1000

65.1000 73.0000 83.1000 91.1000

103,1000

0.2

0 -0.2 -0.4 -0.6 -0.8 -1.2

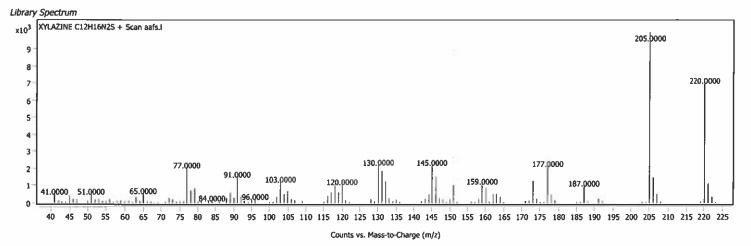
41.1000 51.1000

145,1000

159.1000

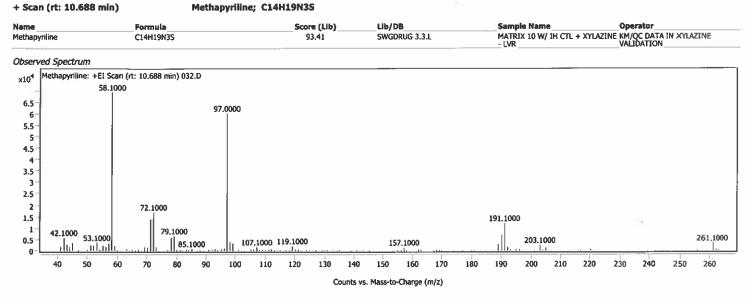
177.1000

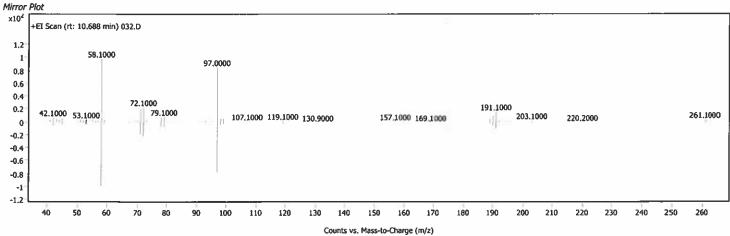
187.2000

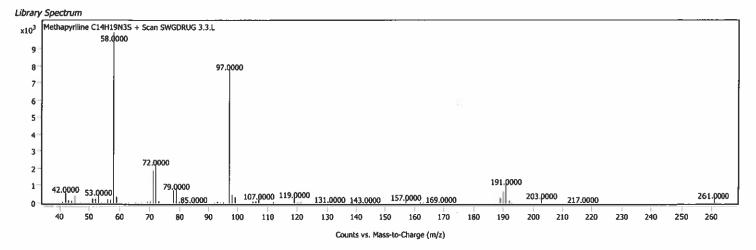






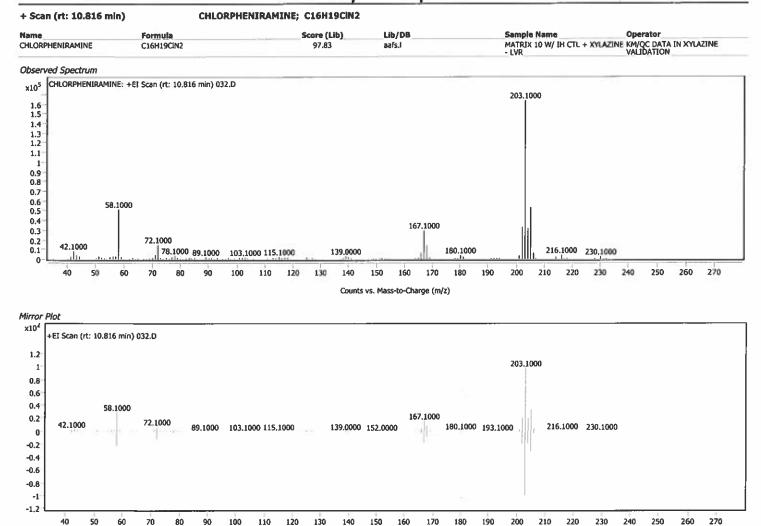


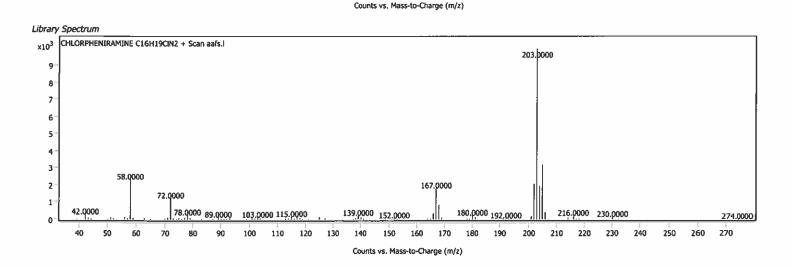




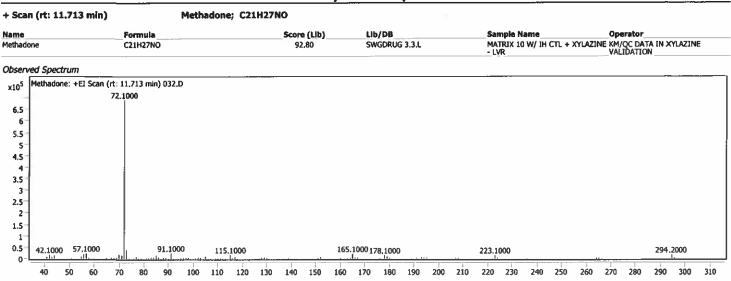


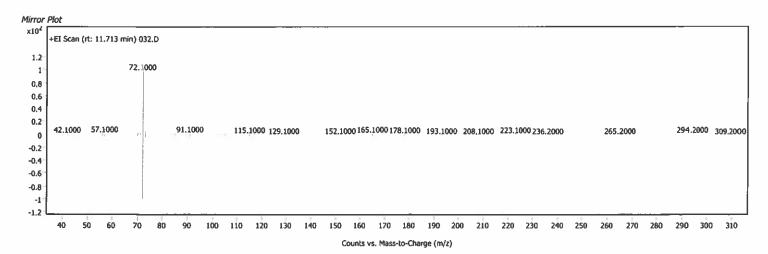




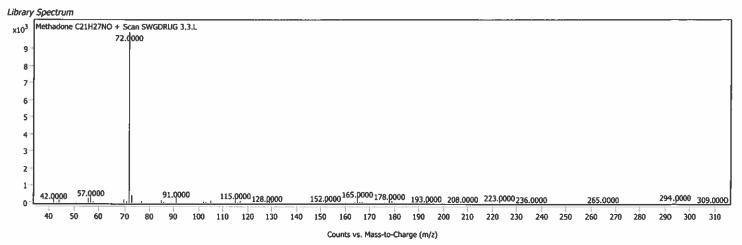


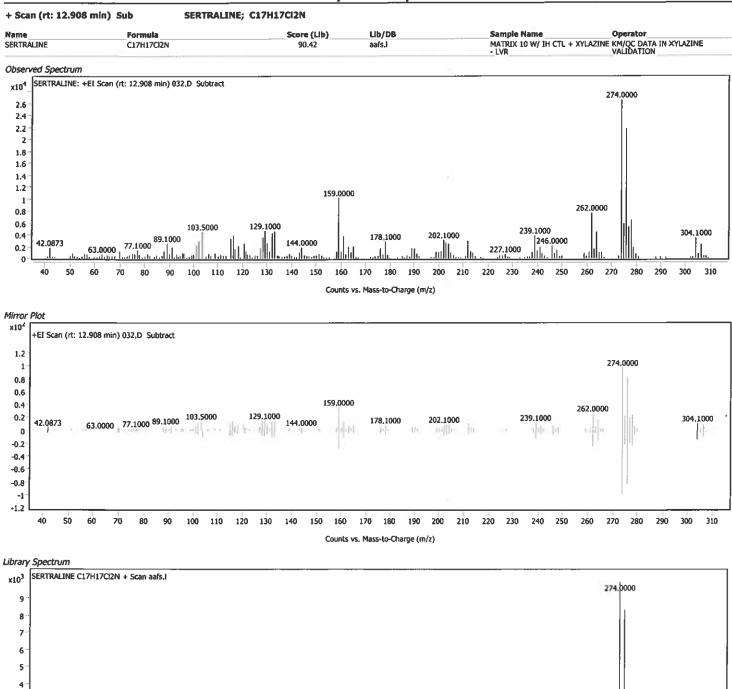






Counts vs. Mass-to-Charge (m/z)





159.0000

160

178,0000

Counts vs. Mass-to-Charge (m/z)

133,0000

130

144,0000

91,0000

70,0000

3

2

1

40 50

42.Q000

304,0000

300

262,0000

260 270 280

239,0000

240

227,0000

246.0000

36

Injection Date:

9/29/2021

3:56:40 AM

Seq Line:

Vial 37

Sample Name: Sample Info:

MATRIX 10 W/ IH CTL +->

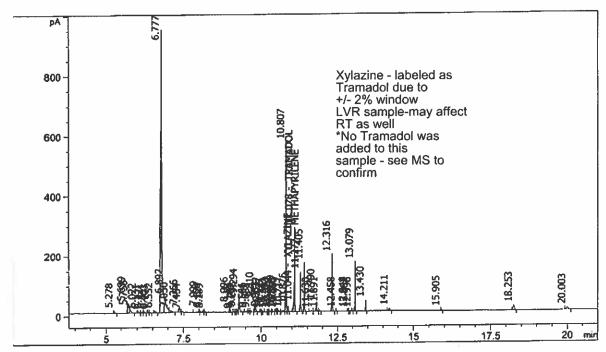
MINZINE KM NITIZZ

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

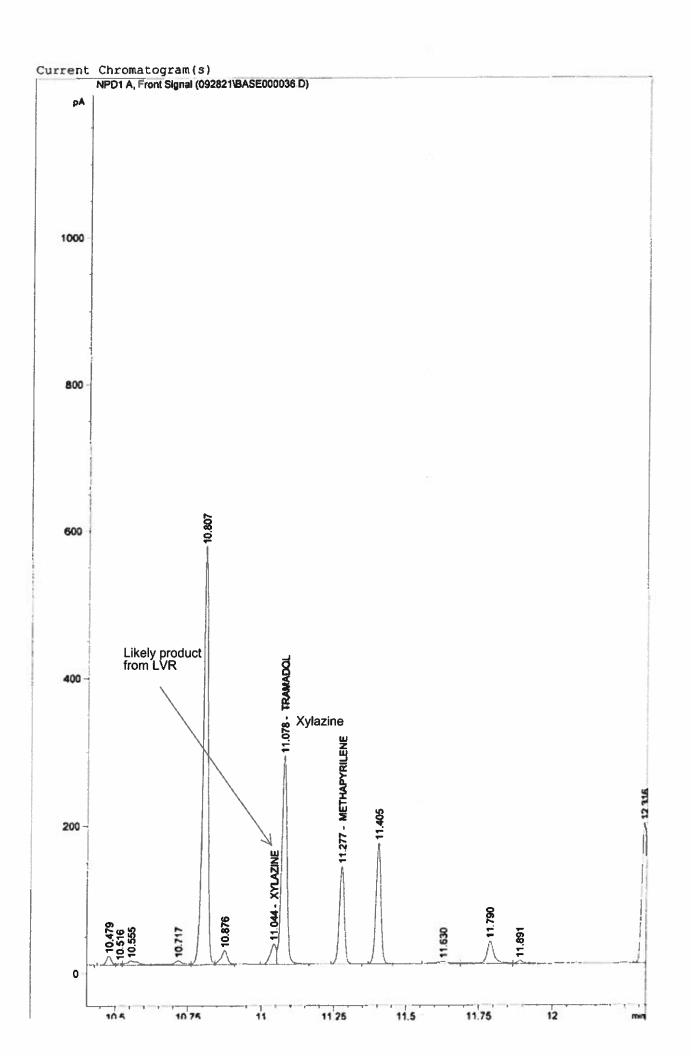
KM/QC DATA IN XYLAZINE VALIDATION



see expanded chromatogram on following page

RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.044 11.078 11.277	11.046 11.033 11.278	37.204 350.607 161.030	27.497 281.564 132.303	0.000000	XYLAZINE TRAMADOL RRT - 0.9824 METHAPYRILENE

LVR sample not included in average RRTs



Sample Information

Sample Name Instrument

Position

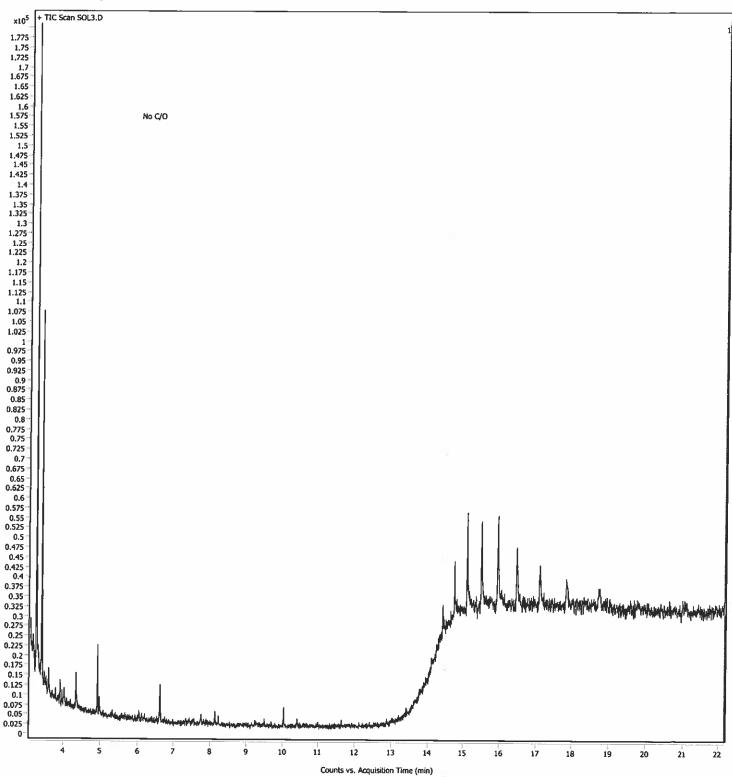
Operator

Solvent Blank 3

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL3.D 9/29/2021 4:44:48 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



Injection Date: 9/29/2021

4:21:01 AM

Seq Line:

37 Vial 38

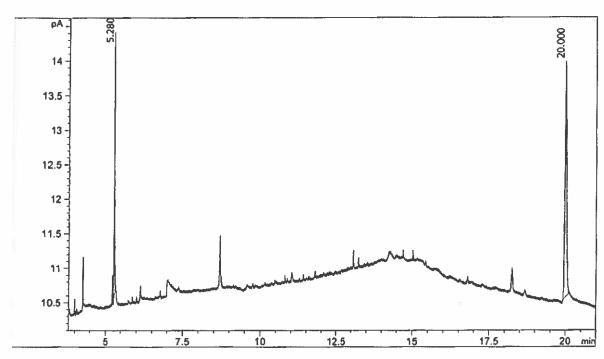
Sample Info:

SOLVENT BLANK 3 Sample Name:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE
22					



Sample Information

Sample Name Instrument

Position

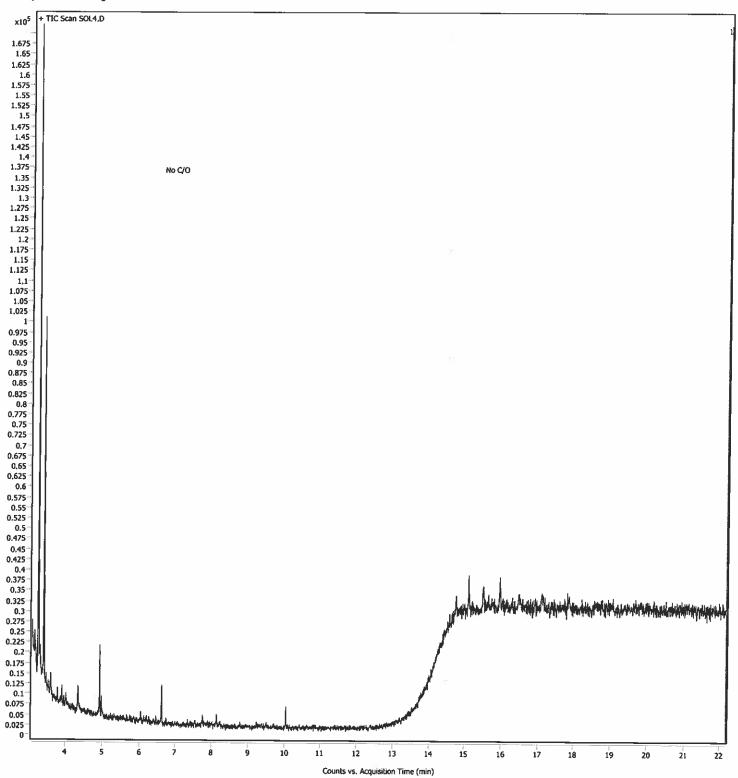
Operator

Solvent Blank 4

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\SOL4.D 9/29/2021 5:10:36 AM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M



Injection Date: Sample Name:

9/29/2021

4:45:16 AM

Seg Line:

38 Vial 39

Sample Info:

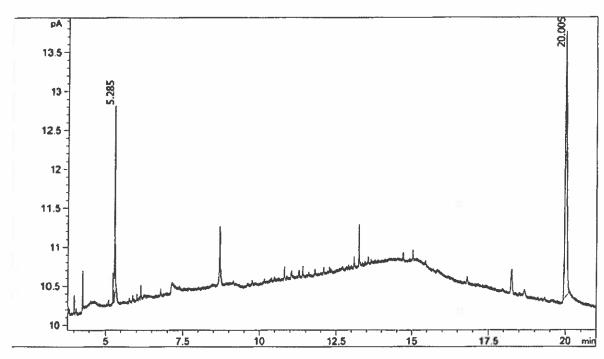
Acq. Method:

SOLVENT BLANK 4

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000		XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

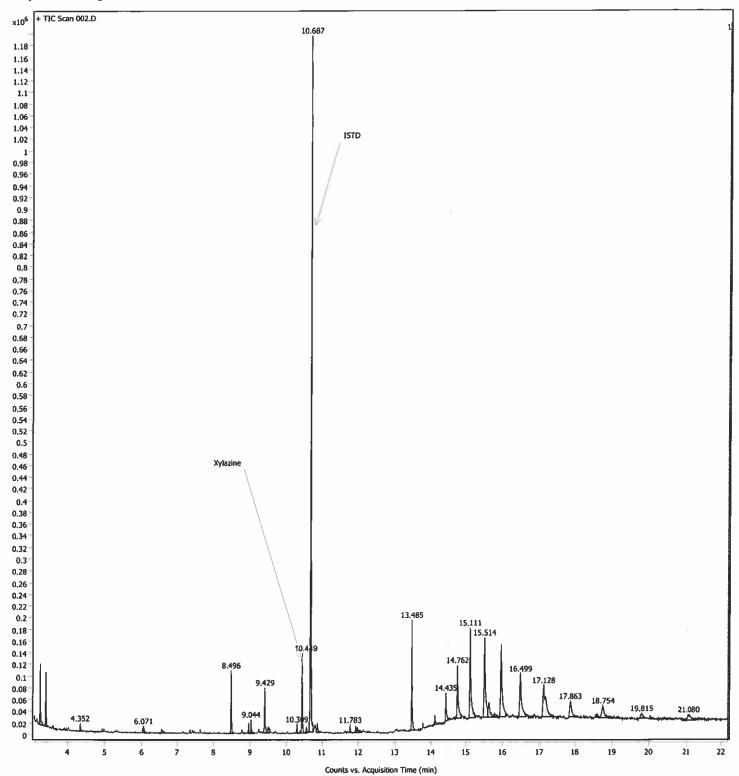
MATRIX 2 0.10 mg/L - BLD

#3 - Enhanced

28

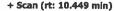
KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\002.D 9/28/2021 2:06:40 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

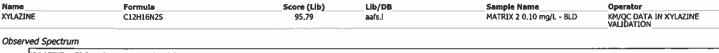


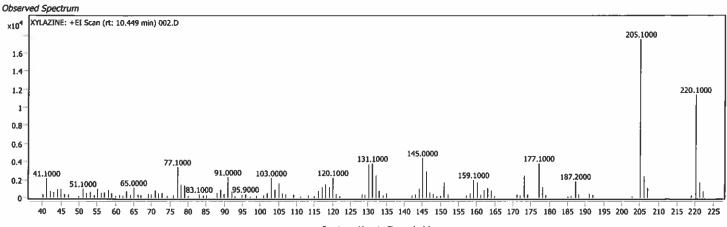


Sample Spectra

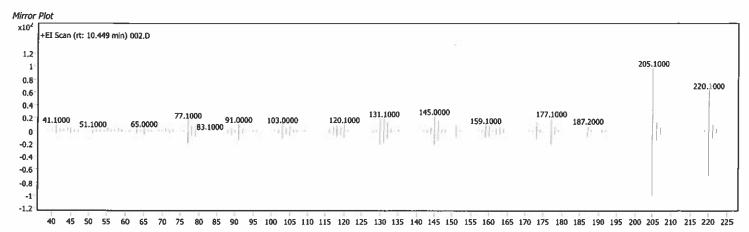


XYLAZINE; C12H16N2S

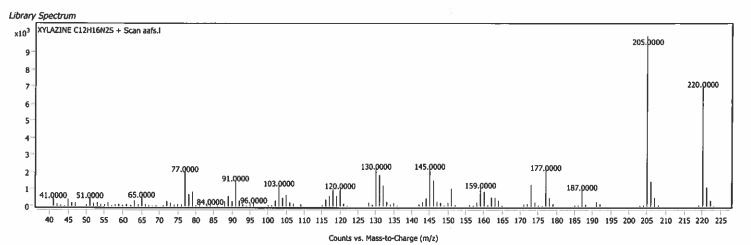




Counts vs. Mass-to-Charge (m/z)

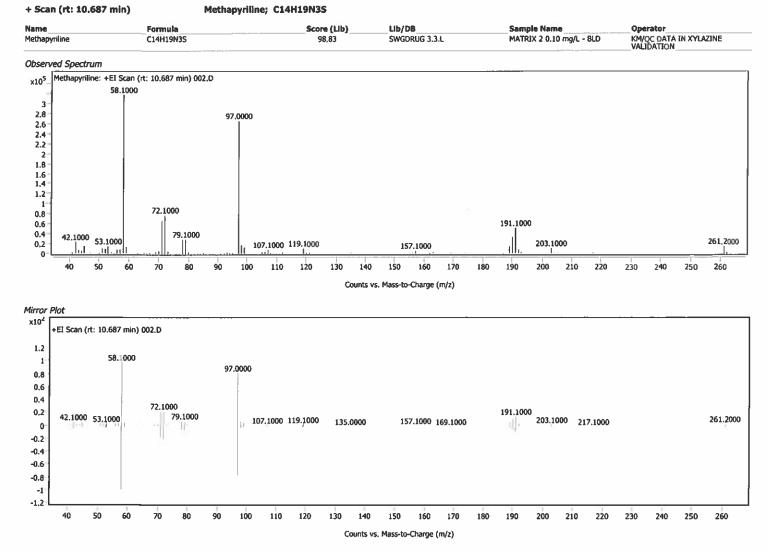


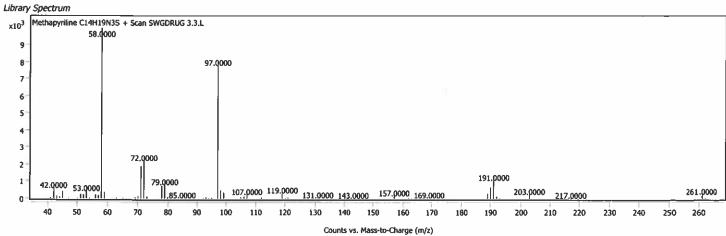
Counts vs. Mass-to-Charge (m/z)











Injection Date: Sample Name:

9/28/2021

2:34:07 PM MATRIX 2 0.10 mg/L - ->

Seq Line:

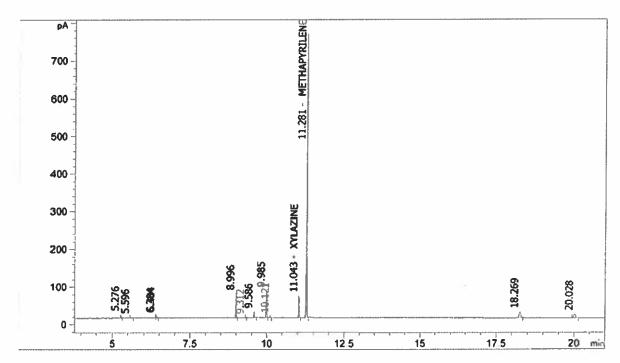
Vial 3

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000 11.033	0.000	0.000	0.000000	TRAMADOL
11.043 11.046	70.356	58.838		XYLAZINE RRT-0.9789
11.281 11.278	890.595	749.848		METHAPYRILENE



Sample Information

Sample Name Instrument

Position

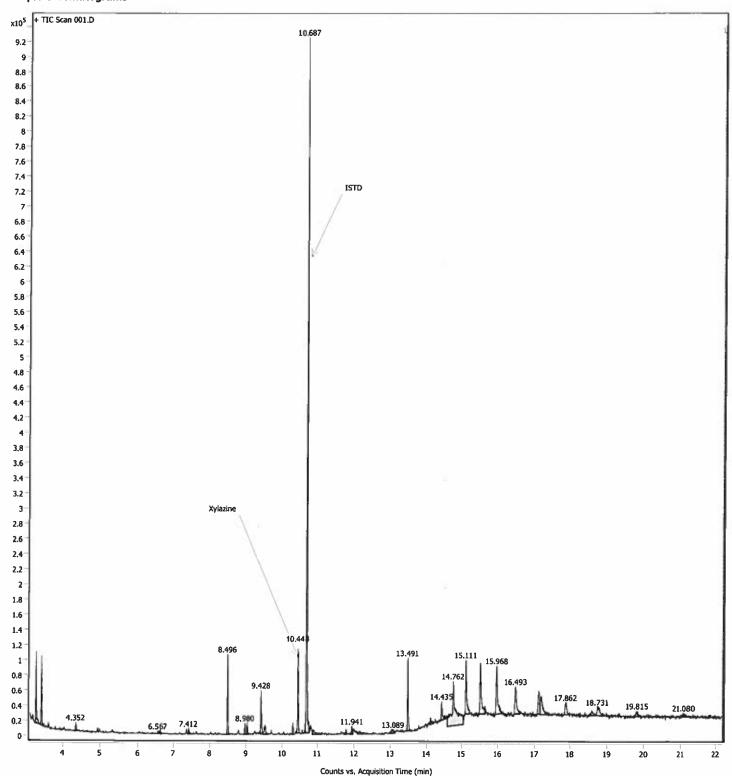
Operator

MATRIX 1 0.10 mg/L - 8LD

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced 27

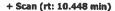
Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\001.D 9/28/2021 1:40:54 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M





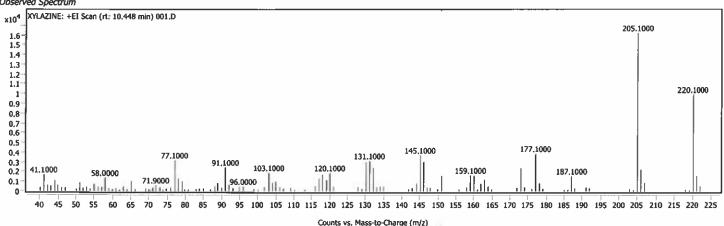


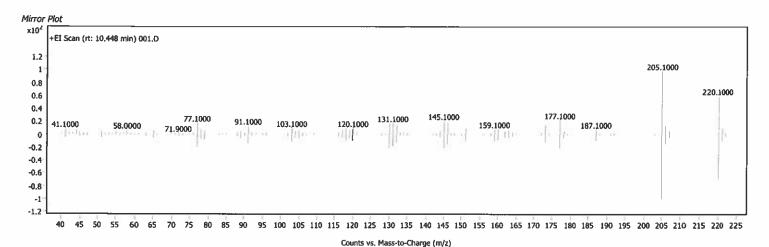
Sample Spectra

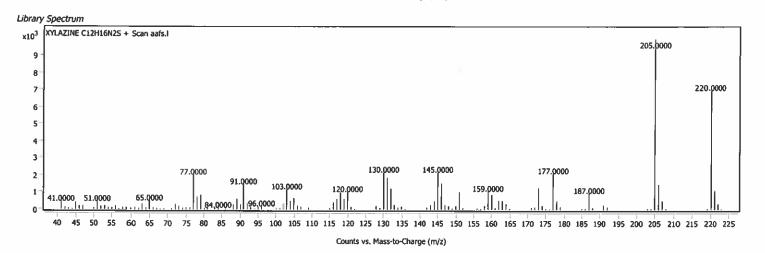


XYLAZINE; C12H16N2S









Methapyriline; C14H19N3S





Name Formula Score (LIb) LIb/DB Sample Name Operator Methapyriline C14H19N3S 98.73 SWGDRUG 3.3.L MATRIX 1 0.10 mg/L - BLD KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 001,D x10⁵ 58.1000 2.4 2.2 97.0000 2 1.8 1.6 1.4 1.2 1 0.8 72,1000 0.6 191.1000 0.4 42,1000 53,1000 79.1000 0.2 107.0000 119.1000 203.1000 261,1000 157.1000 0 40 50 60 70 80 g'n. 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 10.687 m/n) 001.D 1.2 58.1000 97,0000 8.0 0.6 0.4 72.1000 0.2 42,1000 53,1000 79.1000 203.1000 217.1000 107.0000 119,1000 135.0000 157.1000 169,0000 261.1000 0 -0.2 -0.4-0.6 -0.8 -1



40

50

60

70

100

110

120

130

140

150

Counts vs. Mass-to-Charge (m/z)

160

170

180

190

200

210

220

230

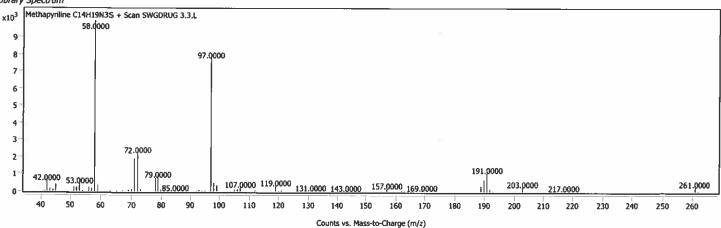
240

250

260

-1.2

+ Scan (rt: 10.687 min)



2

Injection Date: Sample Name:

9/28/2021

2:09:50 PM

Seq Line:

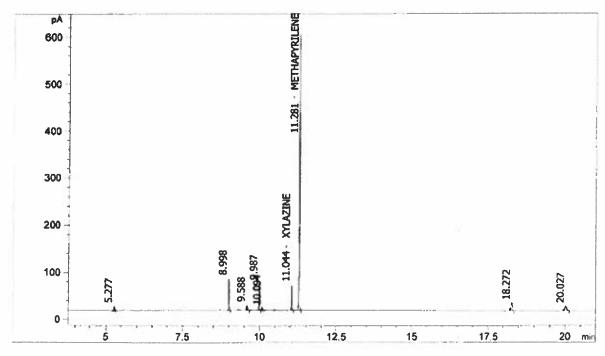
Vial 2

Sample Info:

MATRIX 1 0.10 mg/L - ->

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
11.044 1	1.046	66.004	0.000 54.125 596.023		TRAMADOL XYLAZINE RRT - 0.9790 METHAPYRILENE



Sample Information

Sample Name Instrument

Position

Operator

MATRIX 6 0.10 mg/L - URN

#3 - Enhanced

29

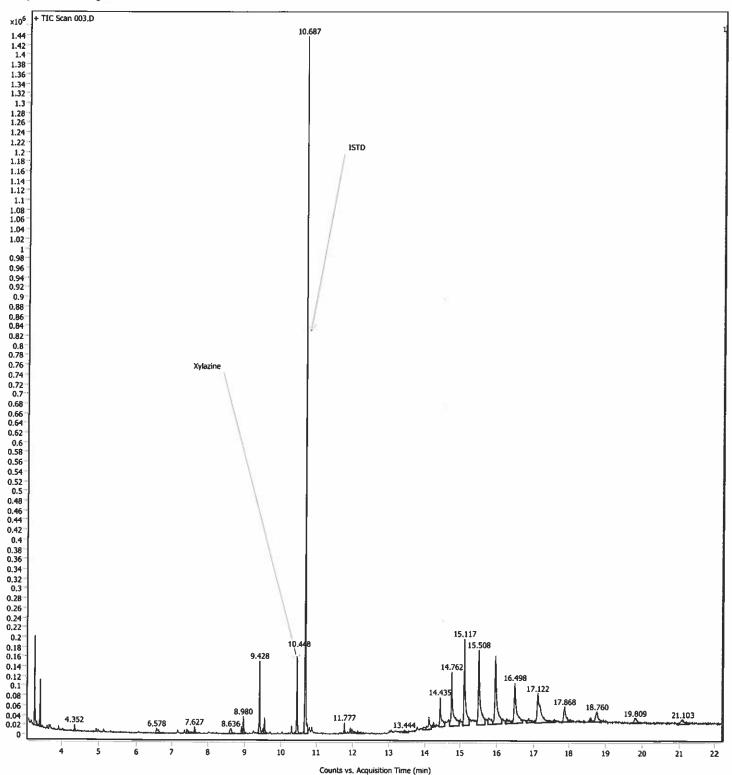
Acq. Time (Local) Method Path (Acq) KM/QC DATA IN XYLAZINE VALIDATION

Data File Path

C:\MassHunter\GCMS\1\data\BASES\092821\003.D

9/28/2021 2:32:32 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

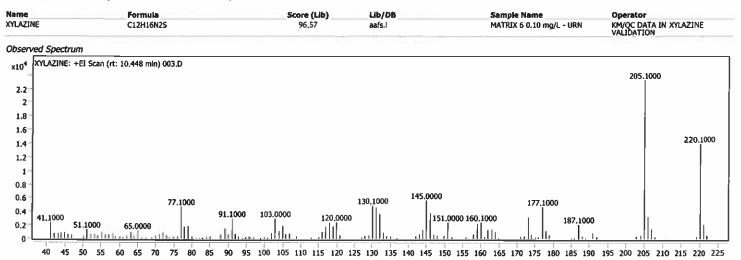




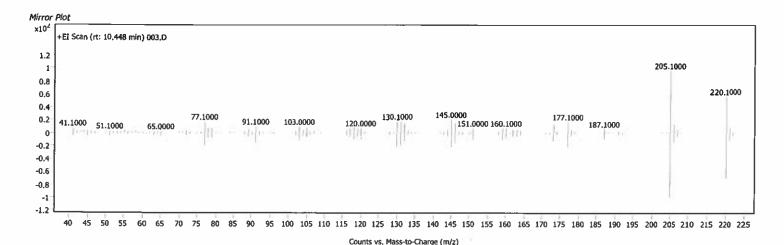


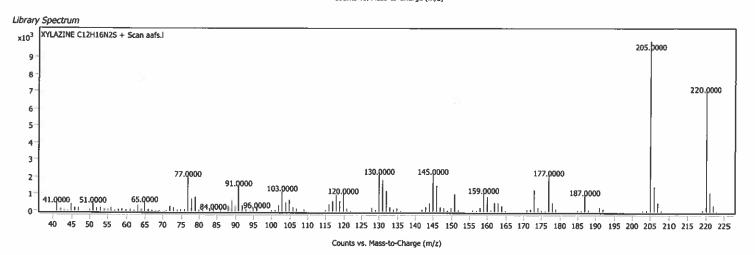


XYLAZINE; C12H16N2S



Counts vs. Mass-to-Charge (m/z)

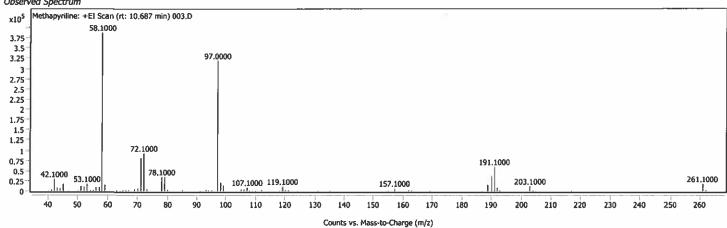


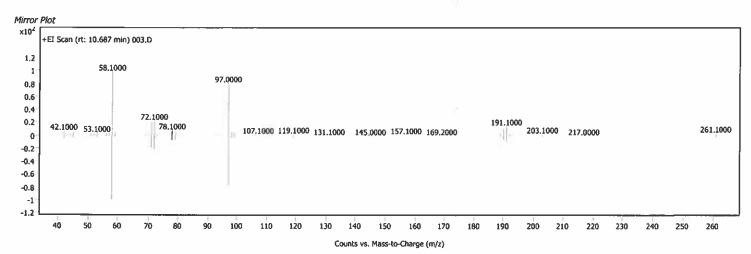


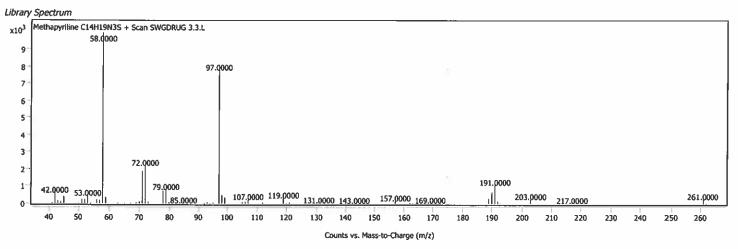


Agilent

+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Sample Name MATRIX 6 0.10 mg/L - URN Lib/DB Name Formula Score (Lib) Operator KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S 98.93 SWGDRUG 3.3.L Observed Spectrum Methapyriline: +El Scan (rt: 10,687 min) 003,D x10⁵









Sample Information

Sample Name Instrument

Position

Operator

MATRIX BLANK after 0.1 mg/L

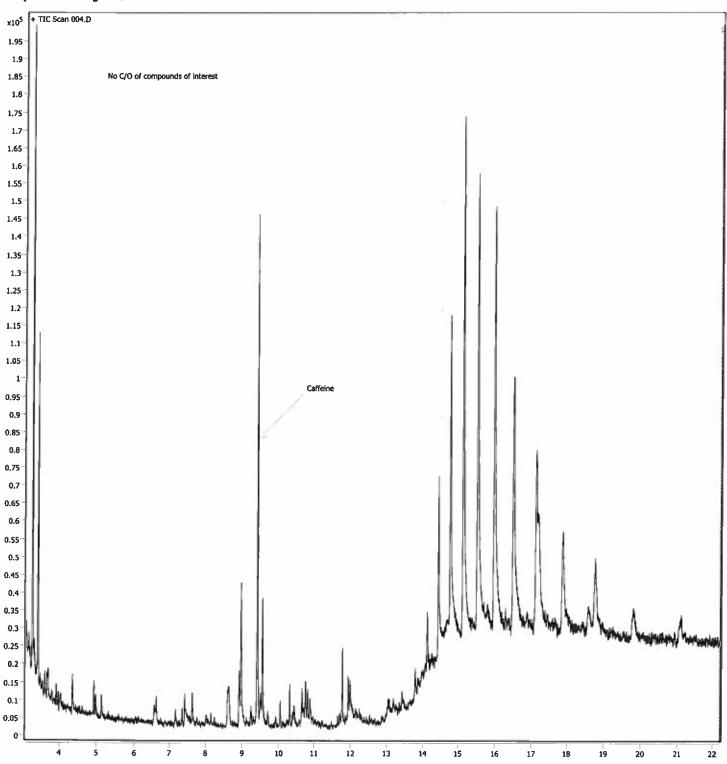
KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

30

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\004.D 9/28/2021 2:58:20 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

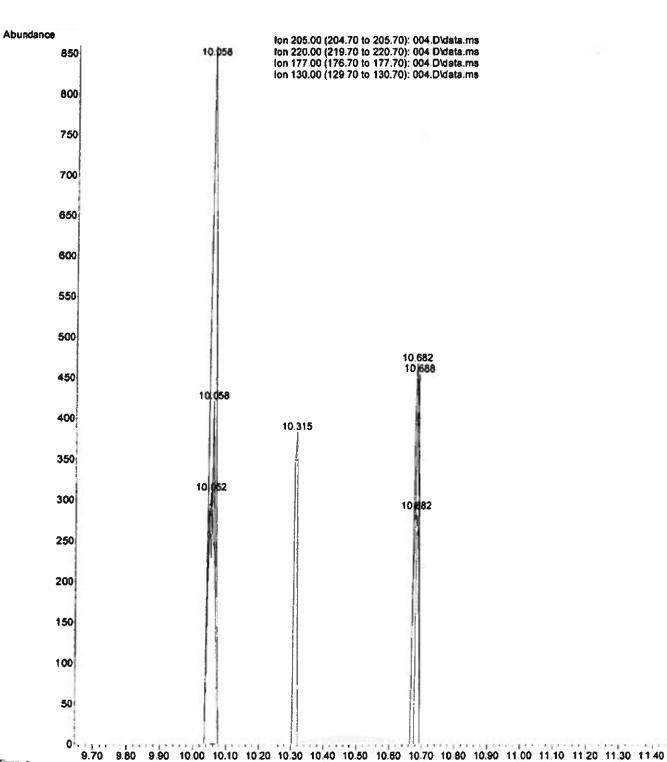
File :C:\Users\TOX\Desktop\092821\004.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 28 Sep 2021 14:58 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX BLANK after 0.1 mg/L

Misc Info : Vial Number: 30



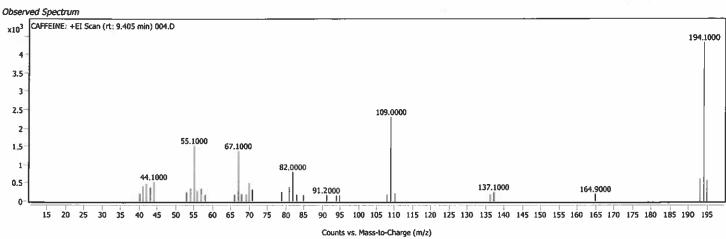


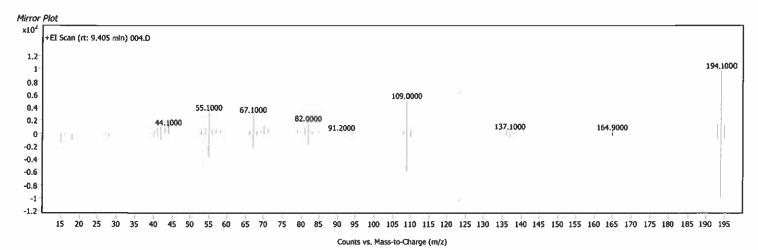
Sample Spectra

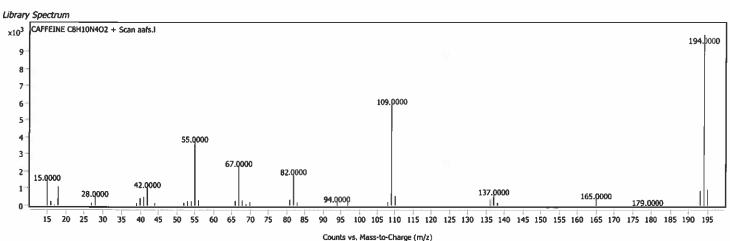
+ Scan (rt: 9.405 min)

CAFFEINE; C8H10N4O2









Injection Date: Sample Name:

9/28/2021 MATRIX 6 0.10 mg/L - ->

2:58:28 PM

Seq Line:

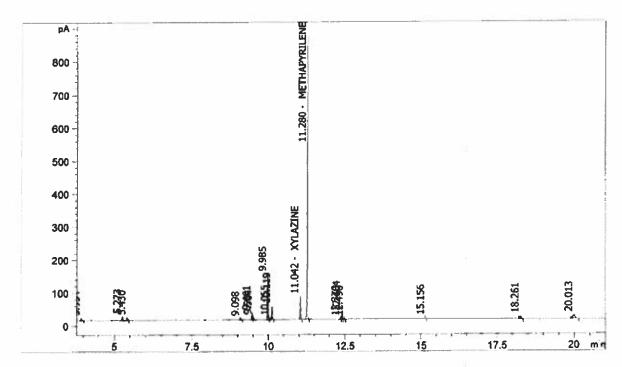
Vial 4

Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.042	11.046	84.260	70.081		XYLAZINE RRT-0.9789
11.280	11.278	1015.278	853.502		METHAPYRILENE

Injection Date: Sample Name:

9/28/2021

3:22:45 PM MATRIX BLANK after 0.->

Seq Line:

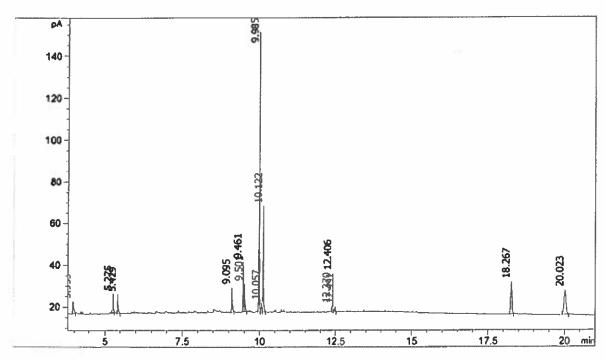
5 Vial 5

Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000 0.000 0.000	11.033 11.046 11.278	0.000 0.000 0.000	0.000 0.000 0.000	0.000000	TRAMADOL XYLAZINE METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 2 0.50 mg/L - BLD

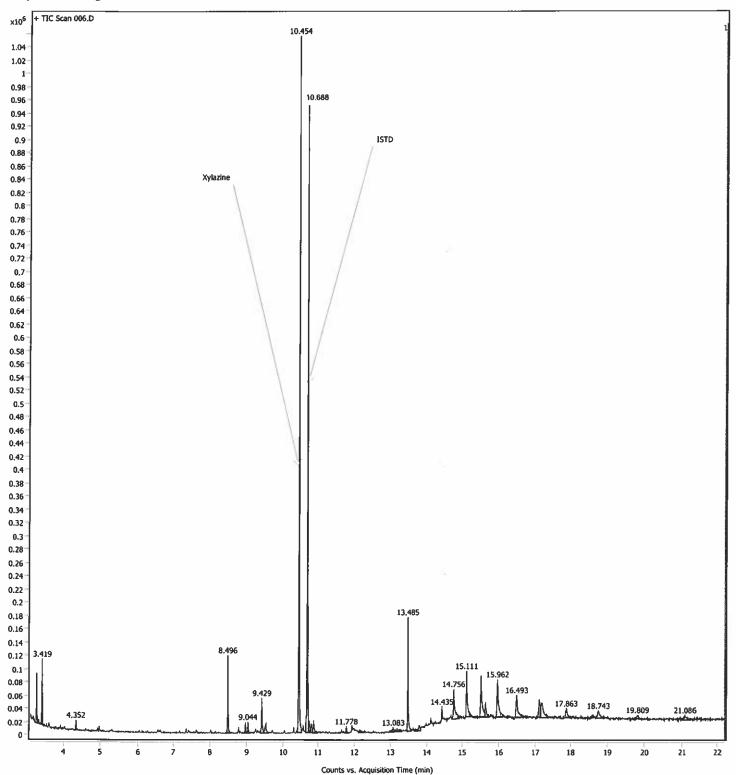
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\006.D

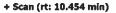
9/28/2021 3:49:58 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



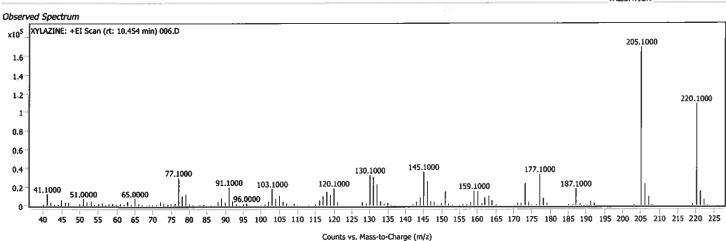


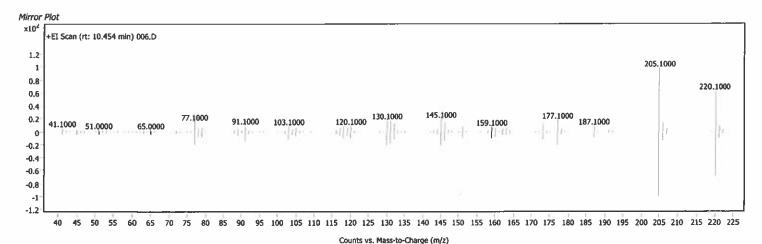
Sample Spectra

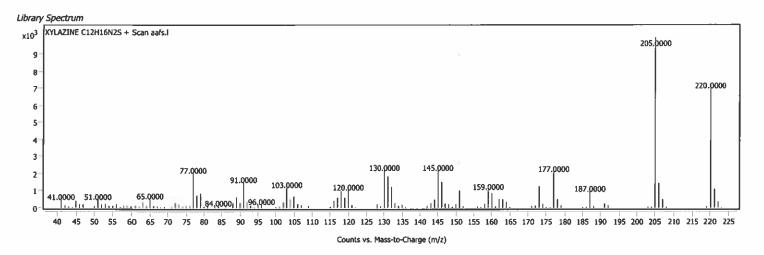


XYLAZINE; C12H16N2S













Methapyriline; C14H19N3S + Scan (rt: 10.688 min) Formula Score (Lib) Lib/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION MATRIX 2 0.50 mg/L - BLD Methapyriline C14H19N3S 98,43 SWGDRUG 3.3.L Observed Spectrum Methapyriline: +EI Scan (rt: 10.688 min) 006.D x10⁵ 58.1000 97.0000 2.2 2 1.8 1.6 1.4 1.2 0.8 72.1000 0.6 191,1000 0.4 79.1000 42.1000 53.1000 261.1000 0.2 203,1000 107,0000 119,1000 157.1000 230 240 250 260 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 Counts vs. Mass-to-Charge (m/z) Mirror Plot x104 +EI Scan (rt: 10.688 min) 006.D 1.2 58.1000 97.0000 8.0 0.6 0.4 72,1000 0.2 191,1000 42.1000 53.1000 79,1000 107.0000 119.1000 203,1000 217,1000 261.1000 157,1000 169,1000 135,0000 0 -0.2-0.4 -0.6 -0.8 -1,2 40 50 60 70 80 90 100 110 120 130 150 160 170 180 190 200 210 220 230 240 250 260 140 Counts vs. Mass-to-Charge (m/z)

Library Spectrum Methapyriline C14H19N3S + Scan SWGDRUG 3.3,L x10³ 58,0000 97.0000 6 5 3 72,0000 2 191.p000 79.0000 42.0000 53.0000 107.0000 119.0000 203.0000 261.0000 157.0000 169.0000 40 50 60 70 90 100 110 120 130 140 190 210 250 260 Counts vs. Mass-to-Charge (m/z)

7

Injection Date: Sample Name:

9/28/2021

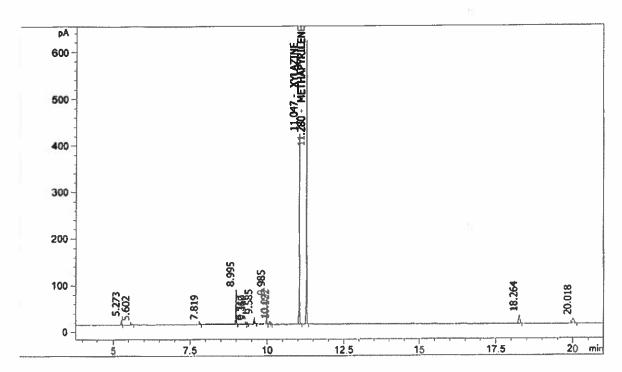
4:11:26 PM MATRIX 2 0.50 mg/L - ->

Seq Line:

Vial 7

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method: Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT	Exp RT			Amount	
(min)	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.047	11.046	474.613	407.068	0.000000	XYLAZINE RRT - 0.9793
11.280	11.278	697.688	603.915	1.000000	METHAPYRILENE





Sample Information

Sample Name Instrument

Position

Operator

MATRIX 1 0.50 mg/L - BLD

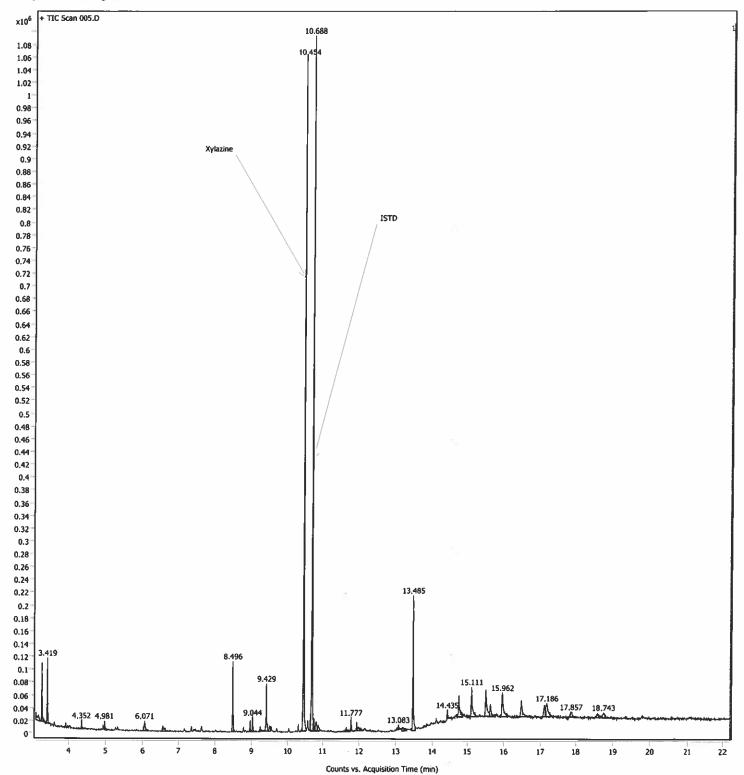
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\005.D 9/28/2021 3:24:07 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



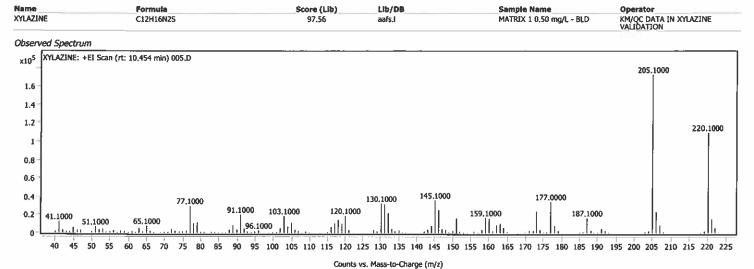


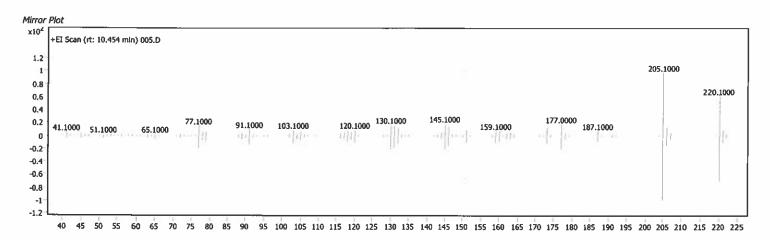


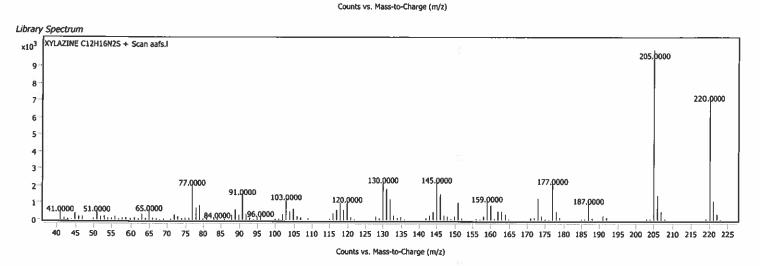
Sample Spectra



XYLAZINE; C12H16N2S









Methapyriline; C14H19N3S + Scan (rt: 10.688 min) Score (Lib) LIb/DB Sample Name Formula Operator Methapyriline C14H19N3S 98.36 SWGDRUG 3.3.L MATRIX 1 0.50 mg/L - BLD KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum Methapyriline: +EI Scan (rt: 10.688 min) 005.D x10⁵ 58.1000 2.8 2,6 97.0000 2,4 2.2 1.8 1.6 1.4 1.2 1 0.8 72.1000 0.6 191,1000 42.1000 53.1000 0.4 79,1000 261.1000 0.2 107,1000 119,0000 203.1000 157,1000 <u>اساس</u> 0 40 50 60 70 130 80 90 100 110 120 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 10.688 min) 005.D 1.2 58.1000 1 97,0000 8.0 0.6 0.4 72,1000 0.2 191.1000 42.1000 53.1000 79.1000 203.1000 217.1000 107,1000 119.0000 157,1000 169,1000 261,1000 135,1000 ٥ -0.2 -0.4 -0.6 -0.8 -1.2 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum x10³ Methapyriline C14H19N3S + Scan SWGDRUG 3.3.L 58.0000 8 97.0000 6 5 4

107,0000 119,0000 131,0000 143,0000 157,0000 169,0000

140

150

Counts vs. Mass-to-Charge (m/z)

191,0000

190

203.0000

210

217.0000

220

230

240

250

3

2

42.0000 53.0000

50

60

40

72.0000

70

79,0000

.85.0000

100

261,0000

260

6

Injection Date: Sample Name:

9/28/2021

3:47:05 PM

Seq Line:

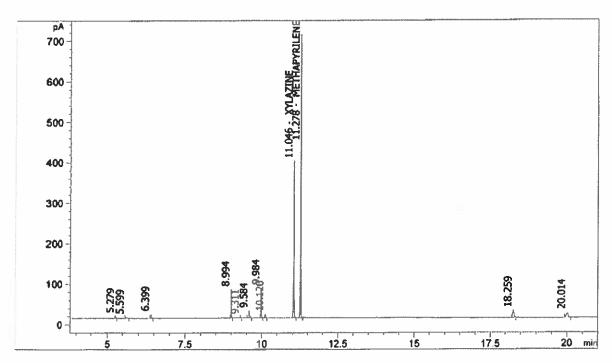
Vial 6

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

MATRIX 1 0.50 mg/L - ->



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.046	11.046	472.345	386.736		XYLAZINE RRT - 0.9794
11.278	11.278	820.587	696.468		METHAPYRILENE

^{*}RTs for Xylazine + Methapyrilene set from sample

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 6 0.50 mg/L - URN

KM/QC DATA IN XYLAZINE VALIDATION

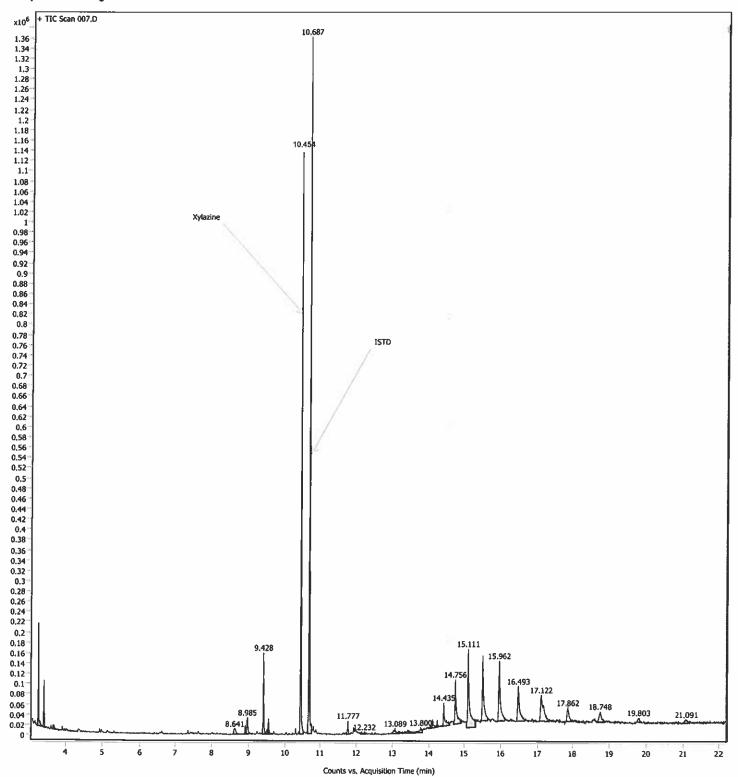
#3 - Enhanced

33

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\007.D

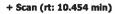
9/28/2021 4:15:44 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

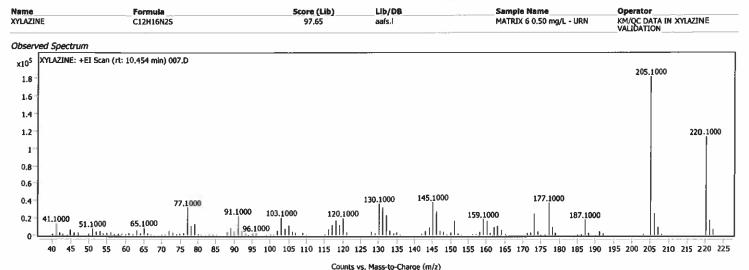


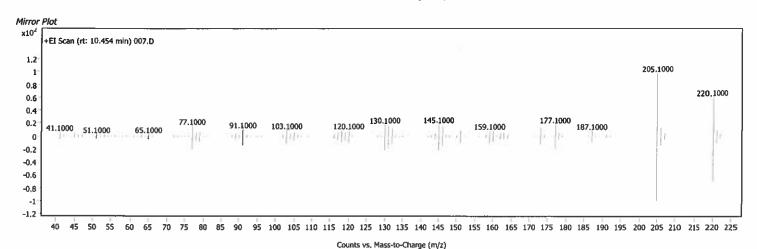


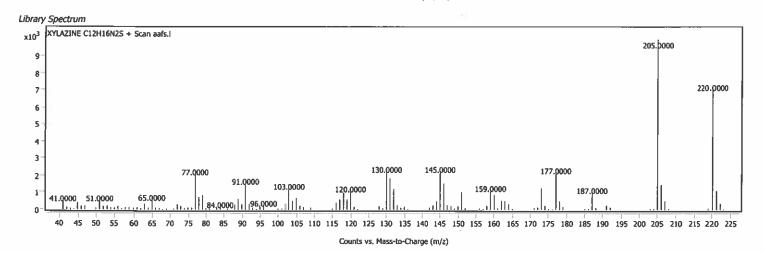
Sample Spectra



XYLAZINE; C12H16N2S







Methapyritine; C14H19N3S





Score (LIb) 98.75 Name LIb/D8 Sample Name Formula Operator KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S SWGDRUG 3.3.L MATRIX 6 0.50 mg/L - URN Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 007,D x10⁵ 58.1000 3.5 3.25 97.0000 2.75 2.5 2.25 1.75 1.5 1.25 72,1000 0.75 191.1000 0,5 42,1000 53,1000 79,1000 0.25 203.1000 261.1000 107.1000 119.1000 157.1000 .ul..ul 40 50 120 130 150 190 200 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10⁴ +EI Scan (rt: 10.687 min) 007.D 1.2 58.1000 1 97,0000 8.0 0.6 0.4 72.1000 0.2 191.1000 42.1000 53.1000 79,1000 203.1000 217.0000 261.1000 107.1000 119.1000 135.1000 157,1000 169,2000 0 -0.2 -0.4 -0.6 -0.8



40

50

60

70

80

90

100

110

120

130

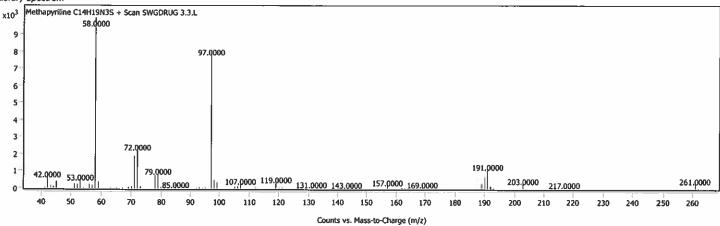
140

150

Counts vs. Mass-to-Charge (m/z)

-1 -1.2

+ Scan (rt: 10.687 min)



170

180

190

200

210

220

230

240

250

260

160

Sample Information

Sample Name Instrument

Position

Operator

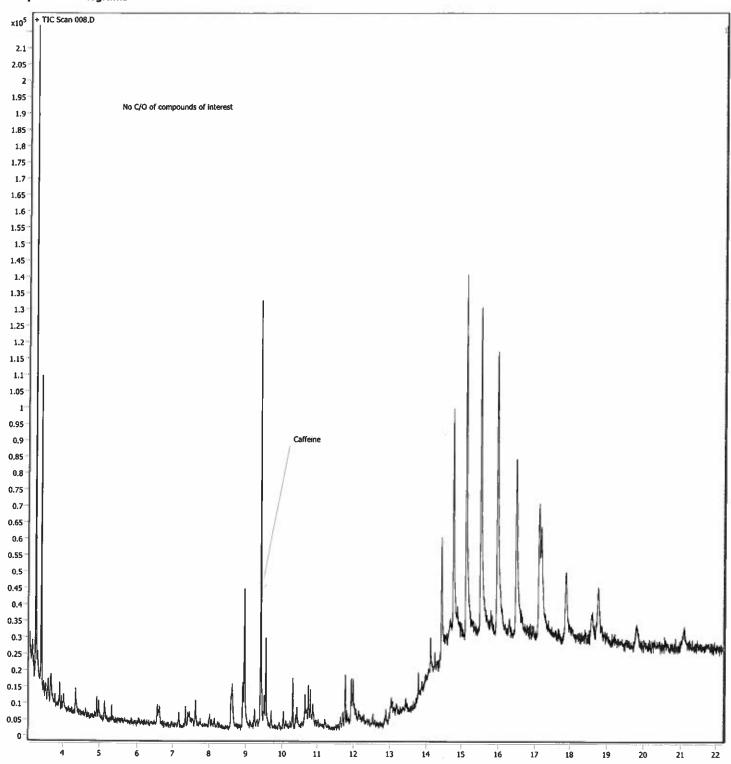
MATRIX BLANK after 0.5 mg/L

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\008.D 9/28/2021 4:41:32 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

File :C:\Users\TOX\Desktop\092821\008.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

Acquired : 28 Sep 2021 16:41 using AcqMethod ALKALI.M

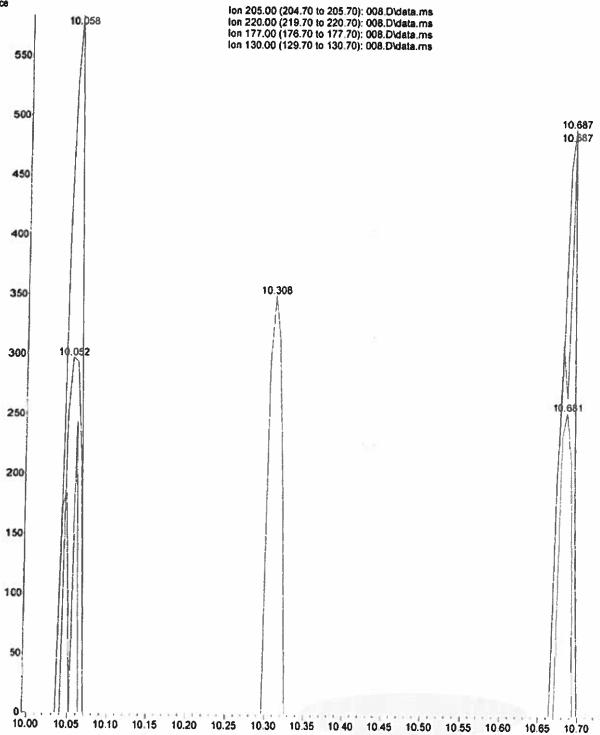
Instrument: #3 - Enhanced

Sample Name: MATRIX BLANK after 0.5 mg/L

Misc Info : Vial Number: 34

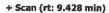


Time-->



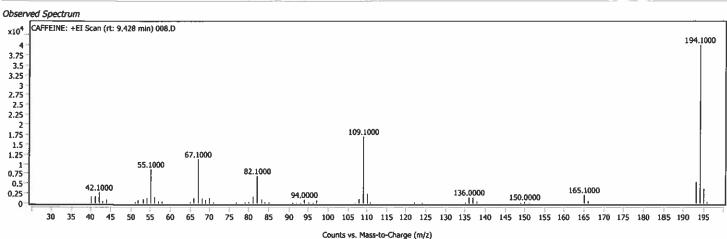


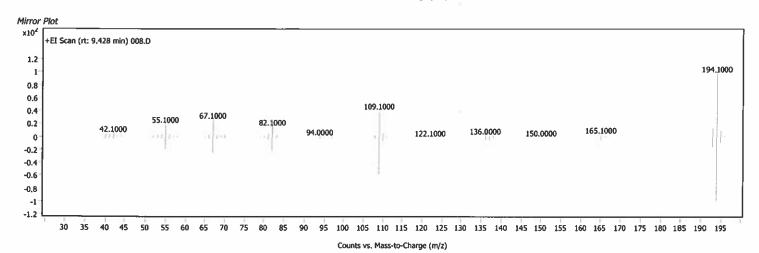
Sample Spectra

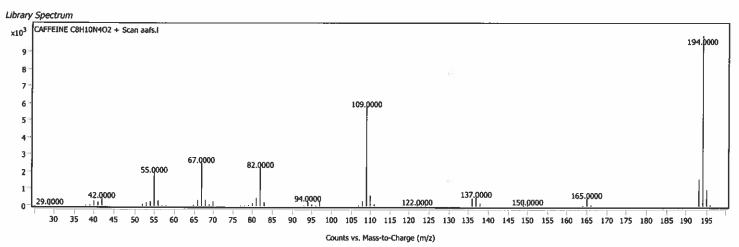


CAFFEINE; C8H10N4O2









Injection Date: 9/28/2021 Sample Name:

MATRIX 6 0.50 mg/L - ->

4:35:44 PM

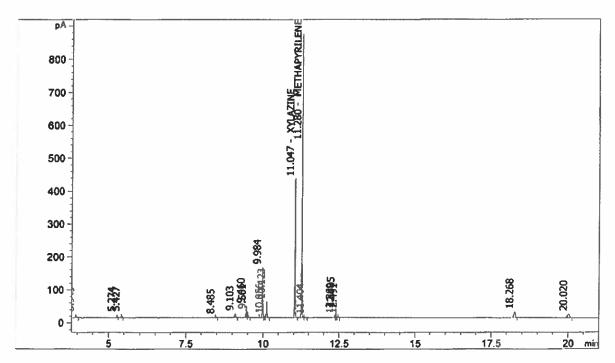
Seq Line:

Vial 8

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M Acq. Method:

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
	11.033 11.046 11.278	0.000 509.258 1025.839	0.000 420.059 859.222	0.000000	TRAMADOL XYLAZINE RRT-0.9793 METHAPYRILENE

Injection Date: 9/28/2021 Sample Name:

5:00:01 PM

Seq Line:

Vial 9

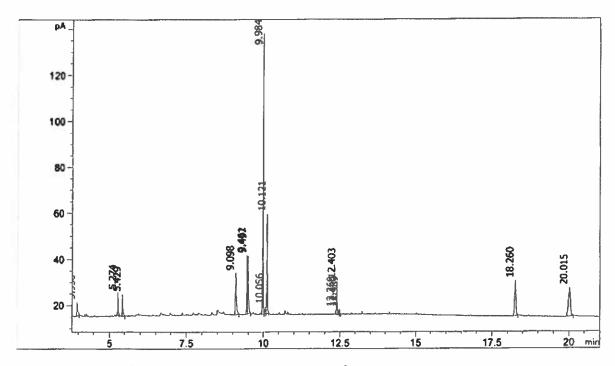
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

MATRIX BLANK after 0.->

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT	Exp RT			Amount	
(min)	[min]	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000	0.000000	XYLAZINE
0.000	11.278	0.000	0.000	0.000000	METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

MATRIX 2 1.0 mg/L - BLD

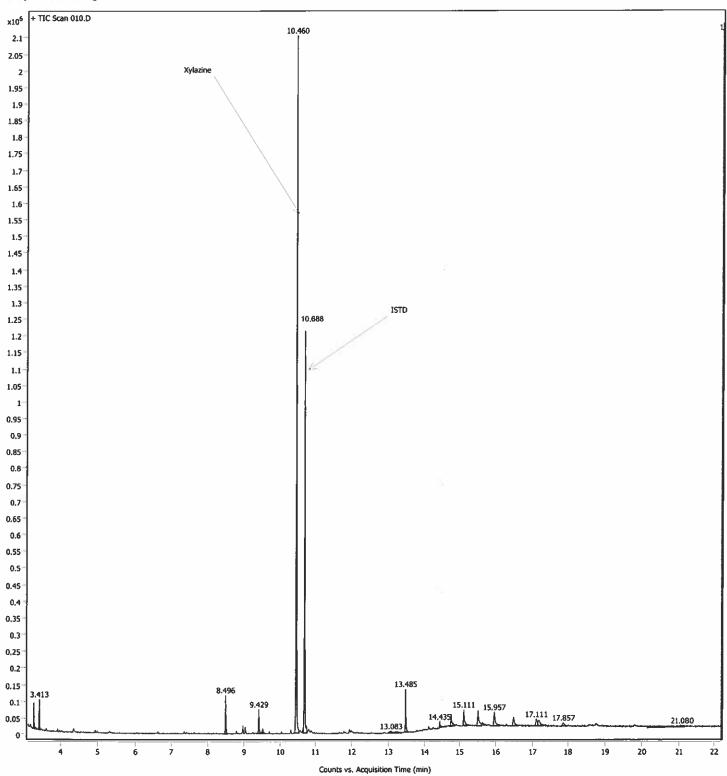
#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\010.D 9/28/2021 5:33:13 PM (UTC-04:00)

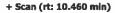
C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

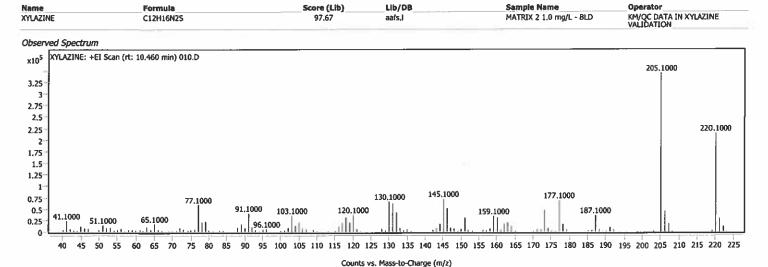


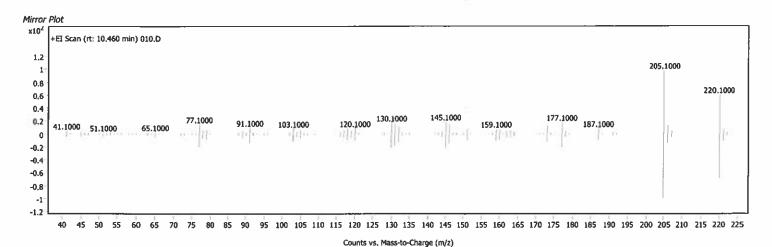


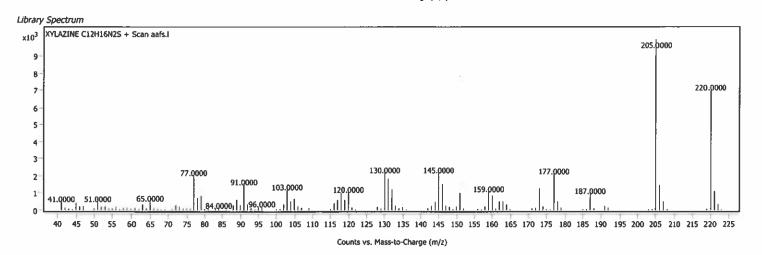
Sample Spectra



XYLAZINE: C12H16N2S





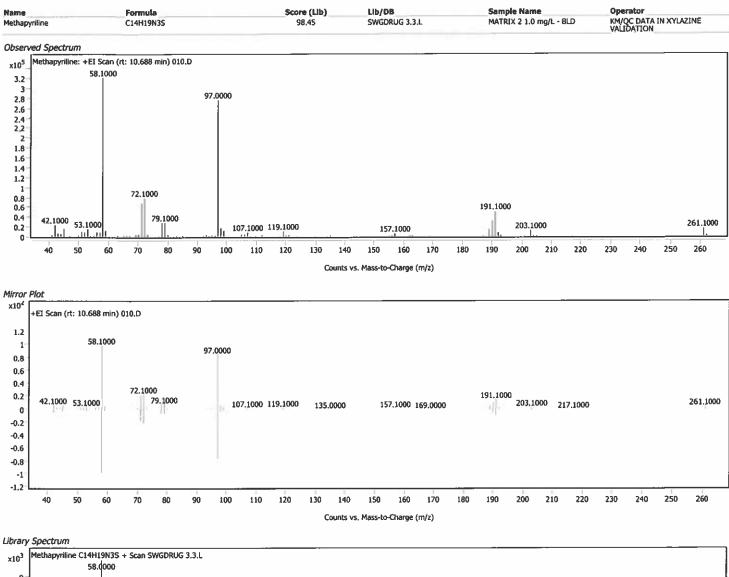


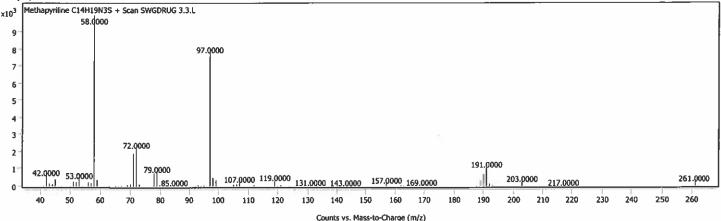
Methapyriline; C14H19N3S

+ Scan (rt: 10.688 min)









Injection Date: 9/28/2021

5:48:39 PM

Seq Line:

Vial 11

Sample Name:

MATRIX 2 1.0 mg/L - BLD

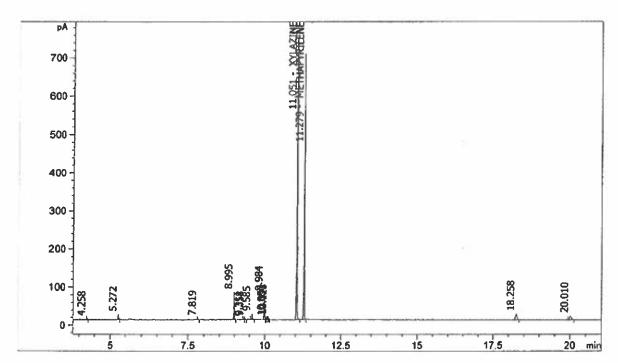
Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



[min] (min) Area He		· ·
0.000 11.033 0.000 0.00 11.051 11.046 934.438 740. 11.279 11.278 810.992 695.	777 0.000000	TRAMADOL XYLAZINE RRT-0.9798 METHAPYRILENE

KM/QC DATA IN XYLAZINE VALIDATION

-- -- --

Sample Information

Sample Name Instrument

Position

Operator

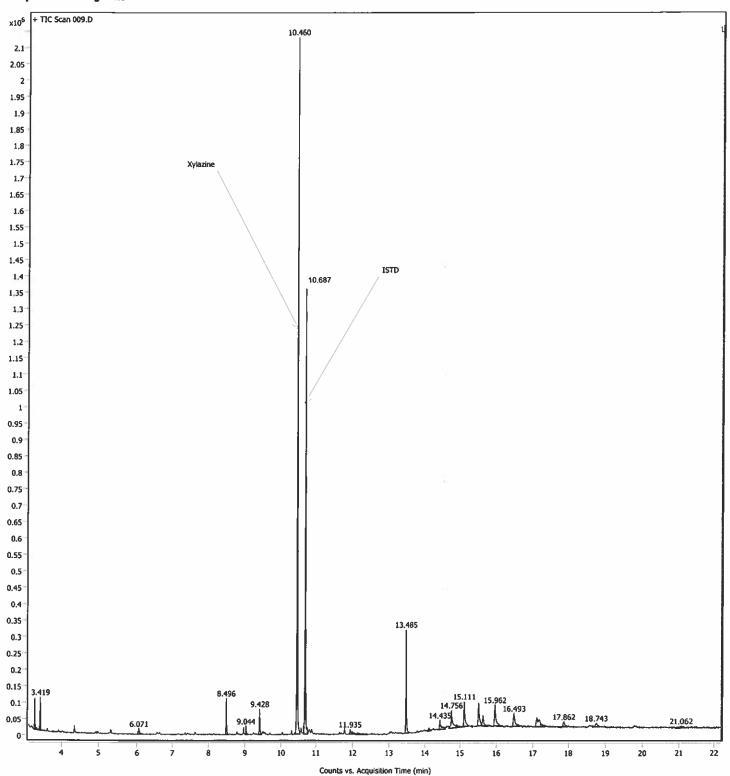
MATRIX 1 1.0 mg/L - 8LD

#3 - Enhanced 35

Method Path (Acq) KM/QC DATA IN XYLAZINE VALIDATION

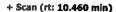
Data File Path Acq. Time (Local) C:\MassHunter\GCMS\1\data\BASES\092821\009.D 9/28/2021 5:07:26 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms

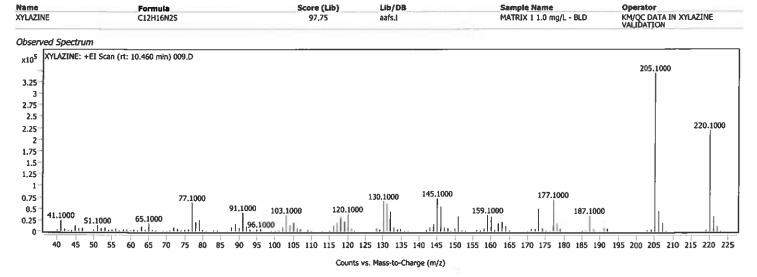


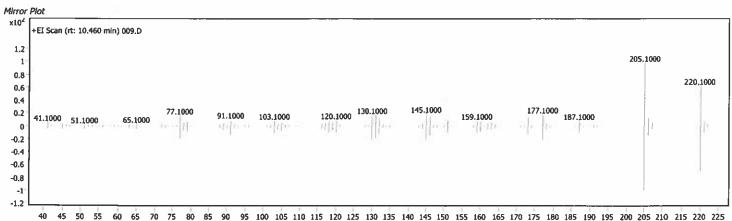


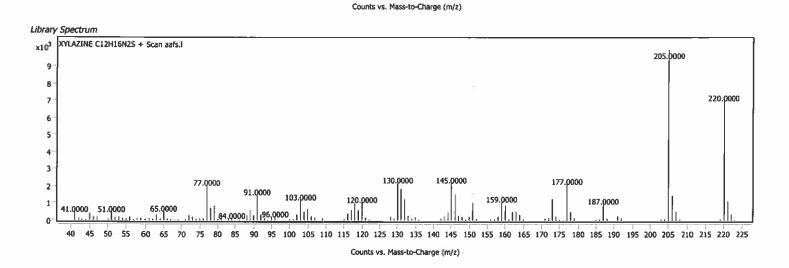
Sample Spectra



XYLAZINE; C12H16N2S









+ Scan (rt: 10.687 min) Methapyriline; C14H19N3S Name Formula Score (Llb) LIb/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION Methapyriline 98,76 SWGDRUG 3.3.L C14H19N3S MATRIX 1 1.0 mg/L - BLD Observed Spectrum Methapyriline: +El Scan (rt: 10.687 min) 009.D x10⁵ 58,1000 3.5 3,25 97.0000 2.75 2.25 1.75 1.5 1,25 72,1000 0.75 191,1000 0.5 42.1000 53.1000 261.2000 0.25 203.1000 107,1000 119,1000 157.1000 0 50 70 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 10.687 min) 009.D 1.2 58,1000 1 97.0000 0.8 0,6 0.4 72,1000 0.2 191,1000 42,1000 53,1000 78.1000 203.1000 217.1000 261,2000 107.1000 119.1000 135,1000 157,1000 169,1000 0 -0.2 -0.4 -0.6 -0.8



40

50

60

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110

120

130

140

150

Counts vs. Mass-to-Charge (m/z)

160

170

180

190

200

210

220

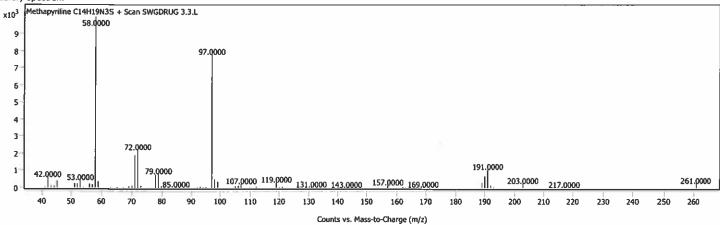
230

240

250

260

-1 -1.2



Injection Date: Sample Name:

9/28/2021

5:24:23 PM MATRIX 1 1.0 mg/L - BLD

Seq Line:

10

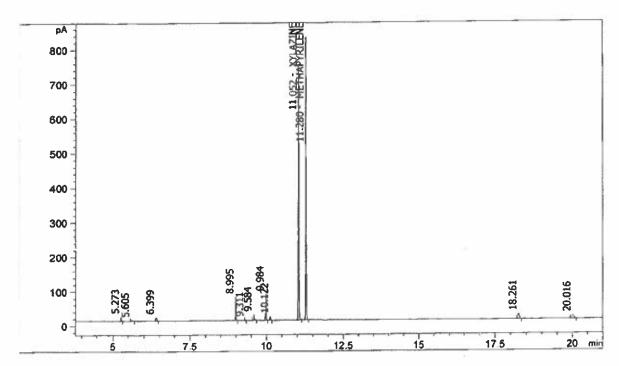
Vial 10

Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.052	11.046	955.597	742.159		XYLAZINE RRT-0.9798
11.280	11.278	954.907	818.491		METHAPYRILENE

Sample Information

Sample Name Instrument

Position

Operator

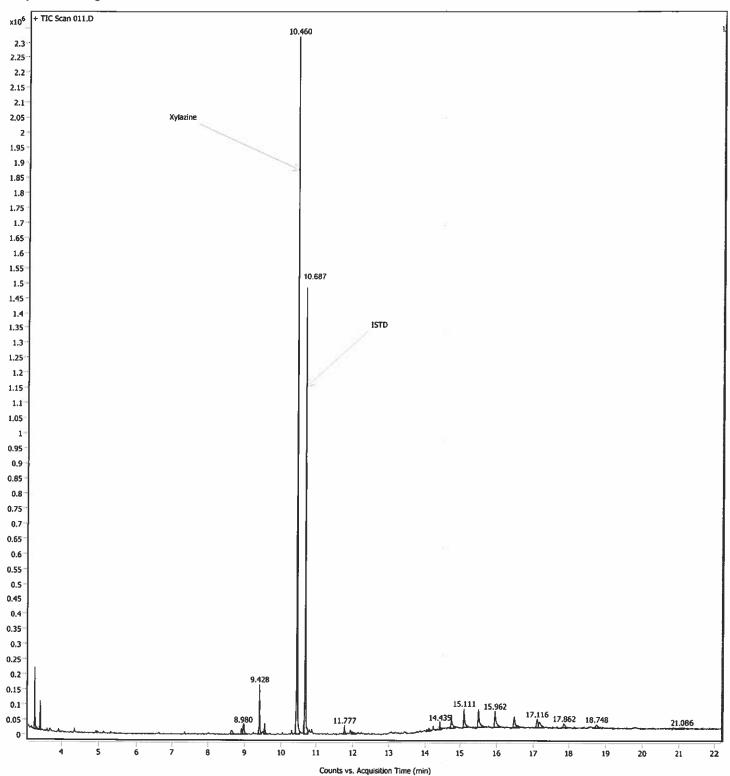
MATRIX 6 1.0 mg/L - URN

#3 - Enhanced

KM/QC DATA IN XYLAZINE VALIDATION

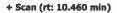
Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\011.D 9/28/2021 5:59:01 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms



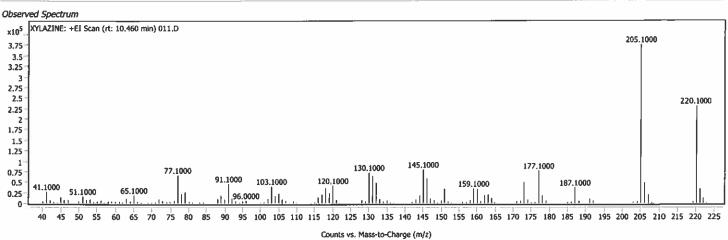


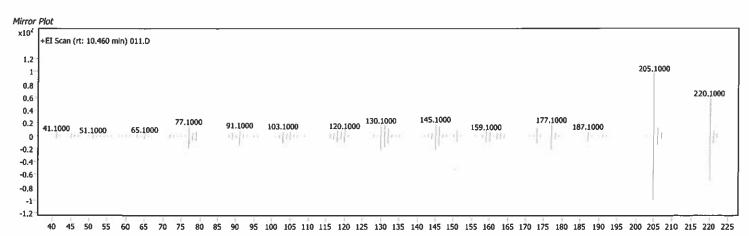
Sample Spectra



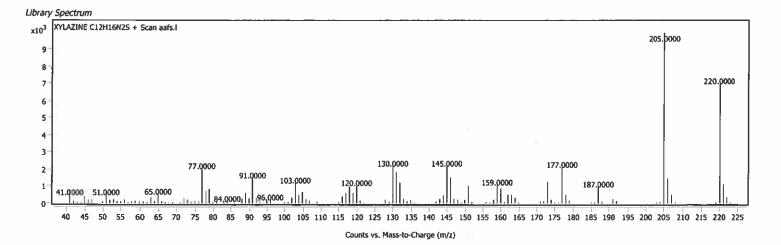
XYLAZINE; C12H16N2S







Counts vs. Mass-to-Charge (m/z)

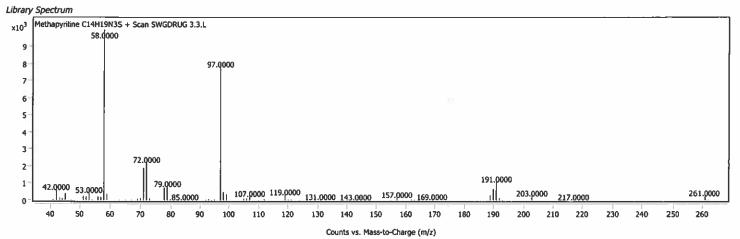


Methapyriline; C14H19N3S

+ Scan (rt: 10.687 min)



Score (Llb) Lib/DB Formula KM/QC DATA IN XYLAZINE VALIDATION Methapyriline C14H19N3S 98.63 SWGDRUG 3.3.L MATRIX 6 1.0 mg/L - URN Observed Spectrum Methapyriline: +EI Scan (rt: 10.687 min) 011.D x10⁵ 58.1000 3.75 3.5 97.0000 3.25 3 2.75 2.5 2.25 2 1,75 1.5 1,25 72,1000 191.1000 0.75 42.1000 53.1000 0.5 79,1000 261.1000 0.25 107.1000 119.1000 203,1000 157.1000 ارر..ارر. 230 260 40 170 190 200 210 220 240 250 70 80 90 100 110 120 130 140 150 160 180 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² +EI Scan (rt: 10.687 min) 011.D 1.2 58.1000 1 97.0000 0.8 0.6 0.4 72,1000 0.2 191,1000 42.1000 53.1000 79.1000 203,1000 217,1000 107,1000 119,1000 157.1000 169.1000 261,1000 135.1000 0 -0.2 -0.4 -0.6 -0.8 -1,2 40 50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z)



File :C:\Users\TOX\Desktop\092821\012.D Operator : KM/QC DATA IN XYLAZINE VALIDATION Acquired : 28 Sep 2021 18:24 using AcqMe

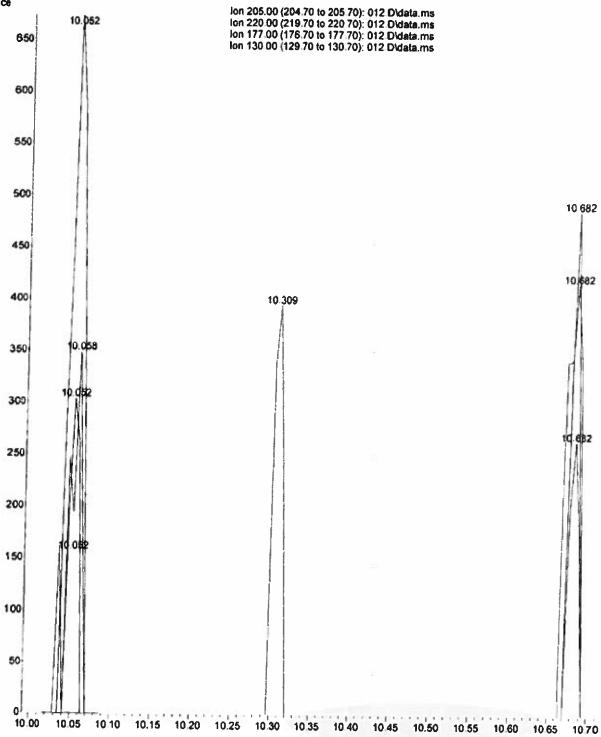
using AcqMethod ALKALI.M

Instrument : #3 - Enhanced

Sample Name: MATRIX BLANK after 1.0 mg/L

Misc Info : Vial Number: 38

Abundan ce







Sample Information

Sample Name Instrument

Position

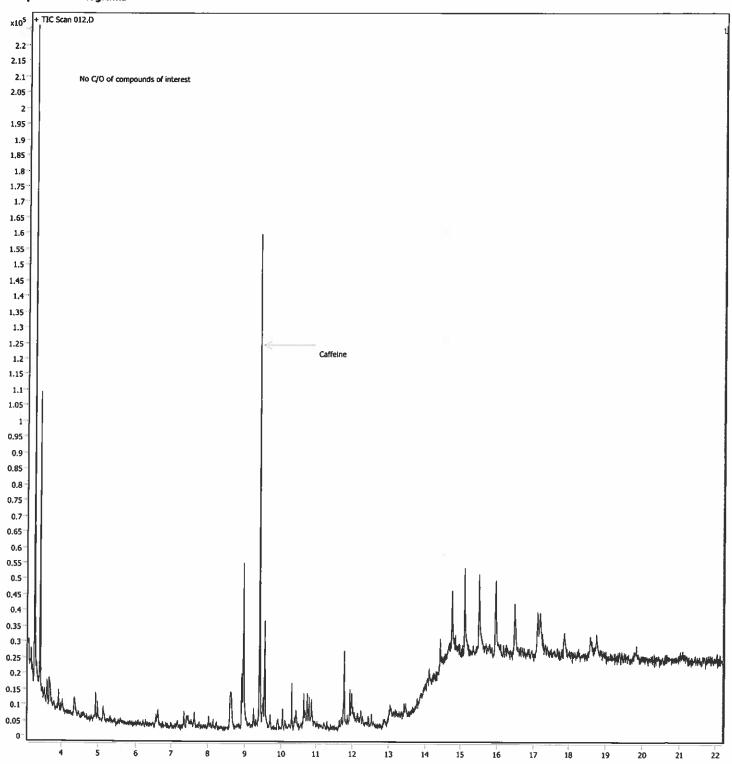
Operator

MATRIX BLANK after 1.0 mg/L

#3 - Enhanced

38 KM/QC DATA IN XYLAZINE VALIDATION Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\012.D 9/28/2021 6:24:54 PM (UTC-04:00) C:\MassHunter\GCM5\1\methods\ALKALI.M

Sample Chromatograms



Counts vs. Acquisition Time (min)



165.0000

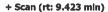


Sample Spectra

0.5

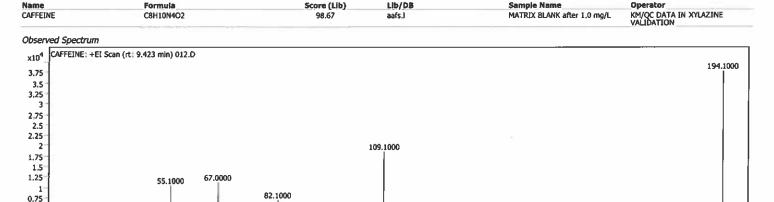
0.25

42.1000



CAFFEINE; C8H10N4O2

65

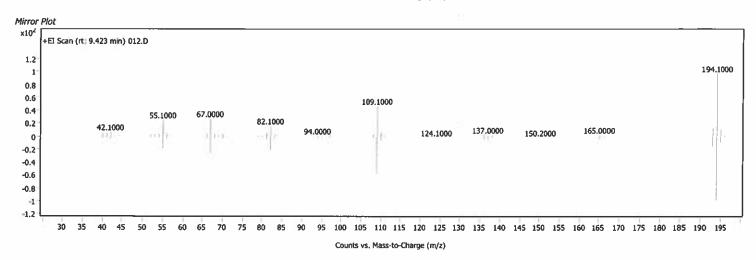


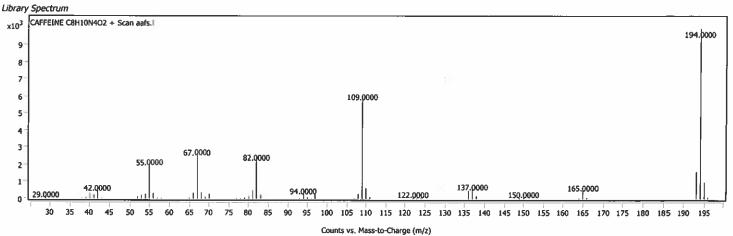
Counts vs. Mass-to-Charge (m/z)

94,0000

137.0000

100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195





12

Injection Date: Sample Name:

9/28/2021

6:12:56 PM MATRIX 6 1.0 mg/L - URN

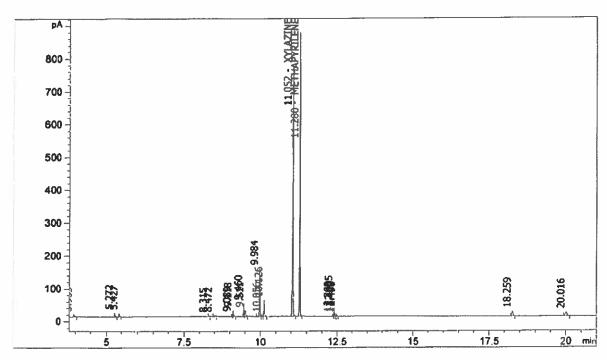
Seq Line:

Vial 12

Sample Info:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.052	11.046	994.796	755.586		XYLAZINE RRT-0.9798
11.280	11.278	1031.261	862.071		METHAPYRILENE

Injection Date: 9/28/2021 MATRIX BLANK after 1.-> Sample Name:

Acq. Method:

6:37:18 PM

Seg Line:

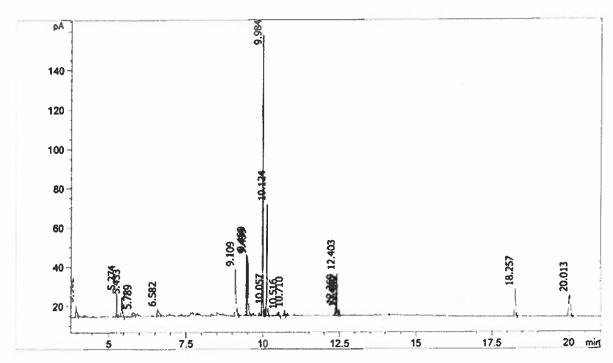
13 Vial 13

Sample Info:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M

KM/QC DATA IN XYLAZINE VALIDATION



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
0.000	11.046	0.000	0.000		XYLAZINE
0.000	11.278	0.000	0.000		METHAPYRILENE

-- -----



Sample Information

Sample Name Instrument

Position

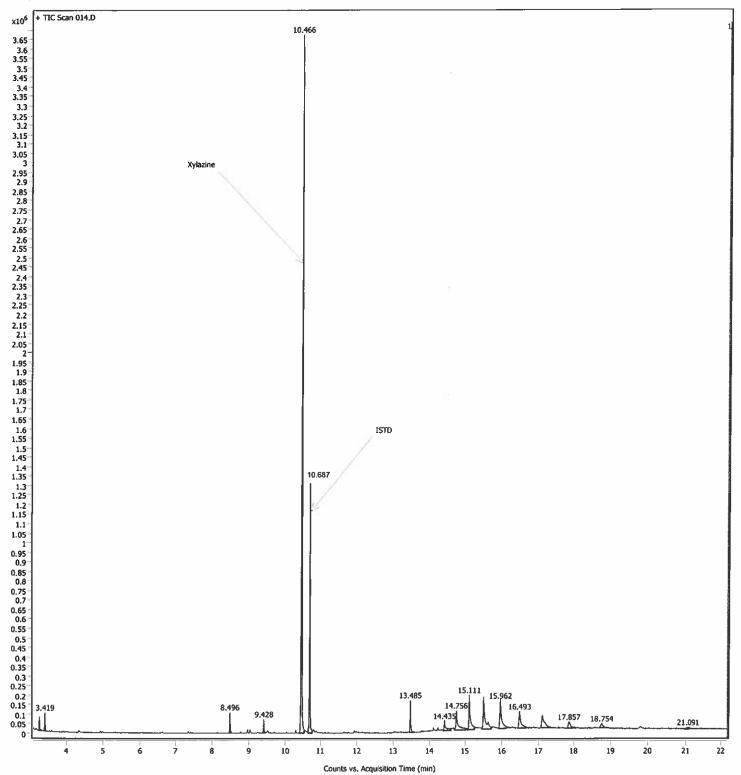
Operator

MATRIX 2 2.0 mg/L - BLD

#3 - Enhanced 40 KM/QC DATA IN XYLAZINE VALIDATION Data File Path Acq. Time (Local) Method Path (Acq)

C:\MassHunter\GCMS\1\data\BASES\092821\014.D 9/28/2021 7:16:26 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

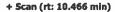
Sample Chromatograms





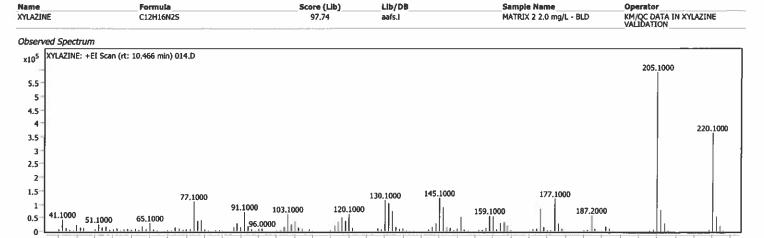
165 170 175 180 185 190 195 200 205 210 215 220 225

Sample Spectra



XYLAZINE; C12H16N2S

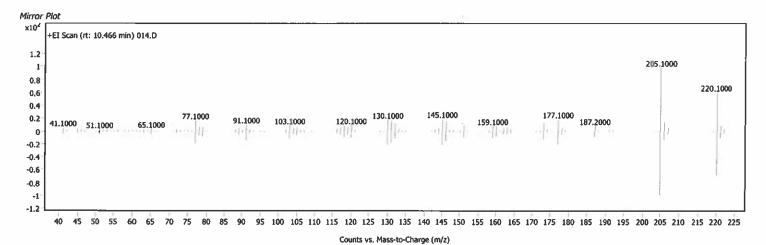
70



5 120 125 130 135 140 145 Counts vs. Mass-to-Charge (m/z)

150 155 160

100 105 110 115

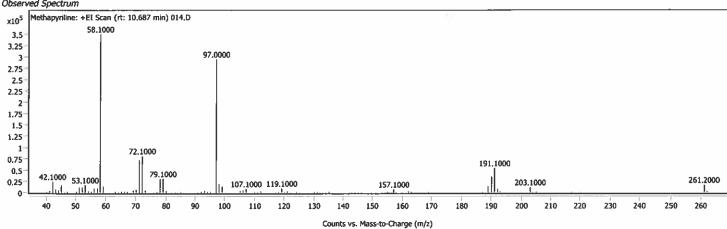


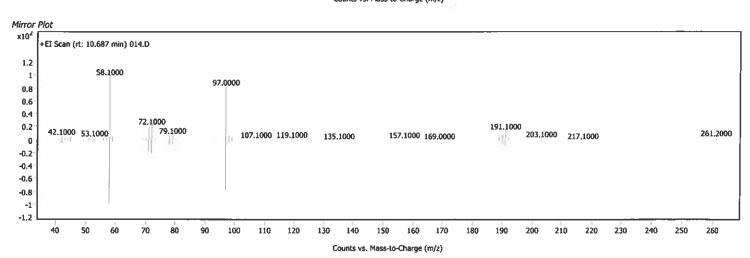
Library Spectrum XYLAZINE C12H16N2S + Scan aafs.I ×10³ 205.0000 220,0000 6 5 3 130,0000 145.0000 177,0000 77.0000 2 91.0000 103,0000 120,0000 159,0000 187,0000 1 41.0000 51.0000 65.Q000 84,0000 | 96,0000 0 50 55 65 70 75 80 85 90 95 100 105 110 115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 Counts vs. Mass-to-Charge (m/z)

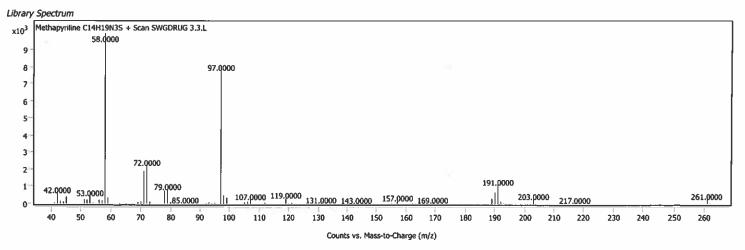


Investo Automotes

+ Scan (rt: 10,687 min) Methapyriline; C14H19N3S Name Formula Score (LIb) Lib/DB Sample Name Operator KM/QC DATA IN XYLAZINE VALIDATION C14H19N3S SWGDRUG 3.3.L MATRIX 2 2.0 mg/L - BLD Methapyriline 98.56 Observed Spectrum Methapyriline: +EI Scan (rt: 10,687 min) 014,D x10⁵







Injection Date: Sample Name:

9/28/2021

7:25:52 PM

Seg Line:

15 Vial 15

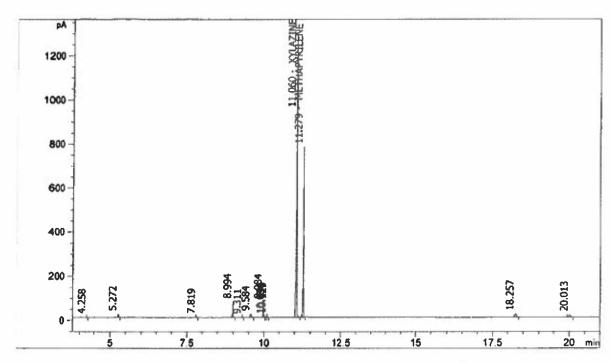
MATRIX 2 2.0 mg/L - BLD

Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.060	11.046	1891.334	1272.978		XYLAZINE RRT - 0.9806
11.279	11.278	920.167	773.041		METHAPYRILENE





Sample Information

Sample Name Instrument

Position

Operator

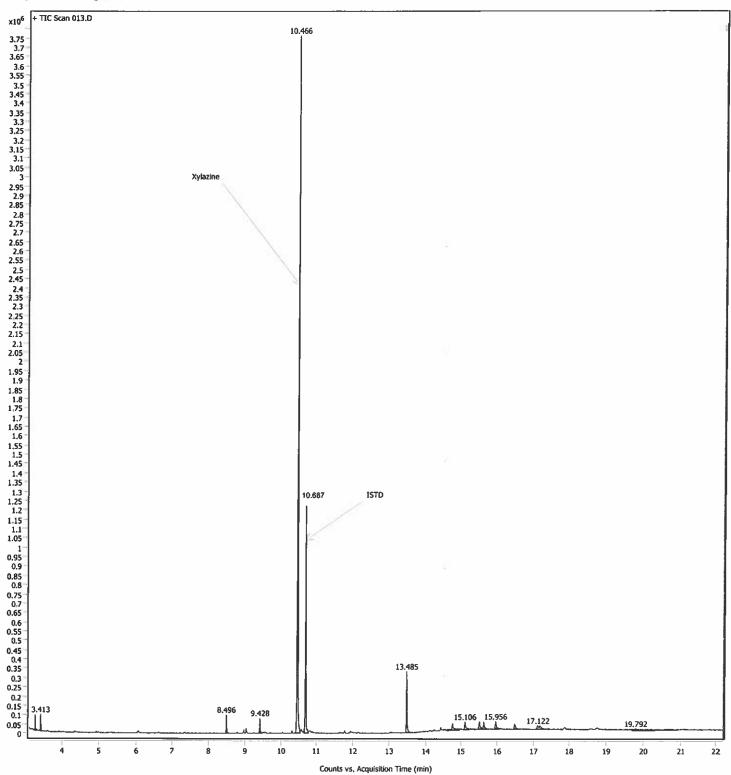
MATRIX 1 2.0 mg/L - BLD

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\013.D 9/28/2021 6:50:41 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms





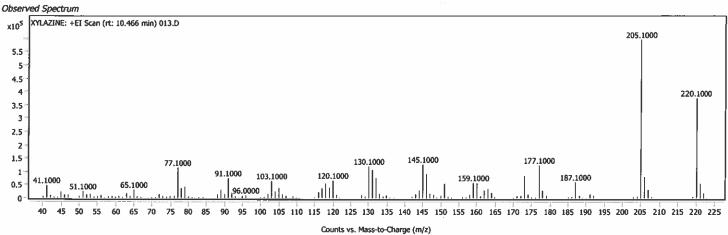


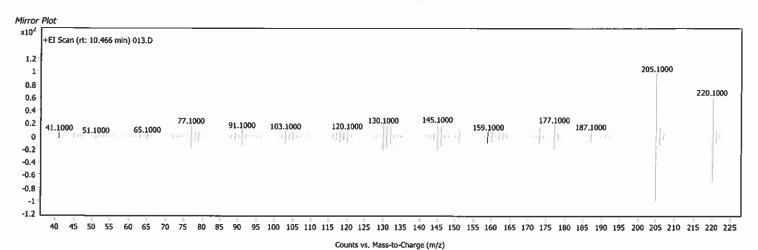
Sample Spectra

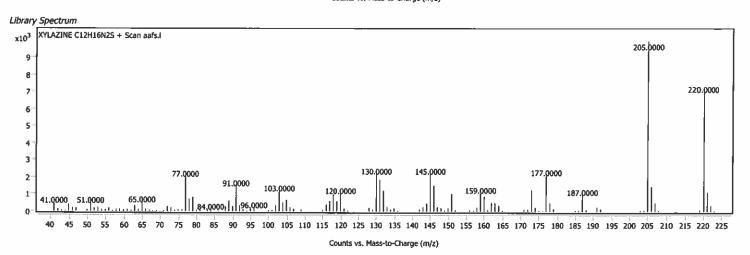


XYLAZINE; C12H16N2S









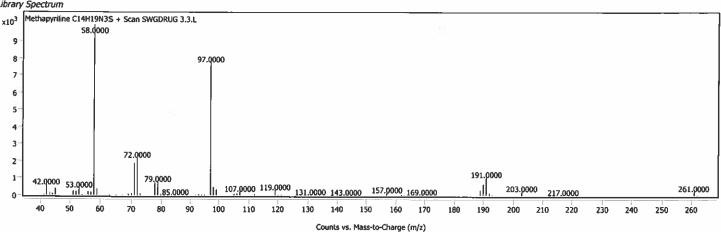
Methapyriline; C14H19N3S

+ Scan (rt: 10.687 min)





Formula Score (Lib) Lib/DB Sample Name Operator Methapyriline C14H19N3S 98.22 SWGDRUG 3.3.L MATRIX 1 2.0 mg/L - BLD KM/QC DATA IN XYLAZINE VALIDATION Observed Spectrum x10⁵ Methapyriline: +EI Scan (rt: 10,687 min) 013,D 58.1000 3.2 2.8 2.6 2.4 2.2 1.8 1.6 1.4 1.2 1 0.8 0.6 97.0000 72.1000 191.1000 42,1000 53,1000 0.4 261.1000 0.2 107.1000 119.1000 157,1000 203.1000 <u> باسان،</u> 40 50 60 70 100 80 90 110 120 130 140 150 170 160 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Mirror Plot x10² EI Scan (rt: 10.687 min) 013.D 1.2 58.1000 97.0000 8.0 0.6 0.4 72.1000 0.2 191,1000 42.1000 53,1000 79.0000 203.1000 217.0000 107,1000 119,1000 131,0000 145,0000 157,1000 169,1000 261.1000 0 -0.2 -0.4 -0.6 -0.8 -1 -1.2 40 50 60 70 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 Counts vs. Mass-to-Charge (m/z) Library Spectrum lethapyriline C14H19N3S + Scan SWGDRUG 3.3.L x10³

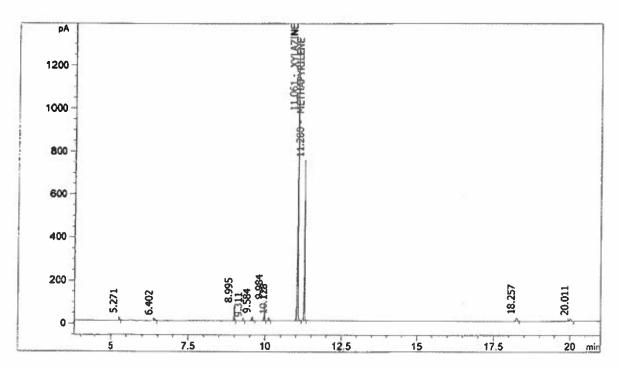


Injection Date: 9/28/2021 7:01:35 PM Seq Line: 14
Sample Name: MATRIX 1 2.0 mg/L - BLD Vial 14

Sample Info:

Acq. Method: C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT	Exp RT			Amount	
(min)	(min)	Area	Height	mg/L	Compound
0.000	11.033	0.000	0.000	0.000000	TRAMADOL
11.061	11.046	1961.487	1308.153	0.000000	XYLAZINE RRT - 0.9806
11.280	11.278	879.732	743.979	1.000000	METHAPYRILENE



Sample Information

Sample Name Instrument **Position**

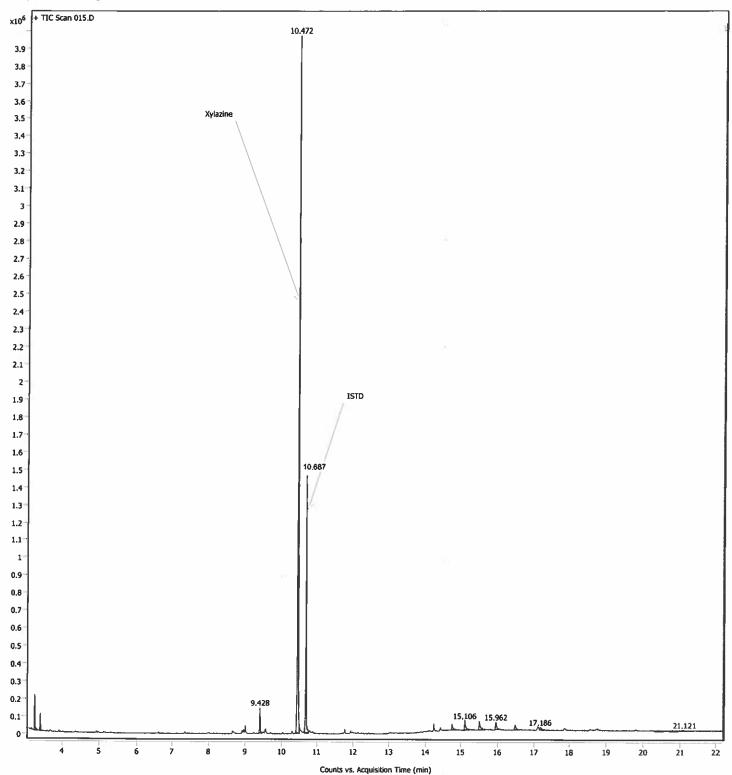
Operator

MATRIX 6 2.0 mg/L - URN

#3 - Enhanced

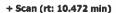
41 KM/QC DATA IN XYLAZINE VALIDATION Data File Path Acq. Time (Local) Method Path (Acq) C:\MassHunter\GCMS\1\data\BASES\092821\015.D 9/28/2021 7:42:20 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKALI.M

Sample Chromatograms

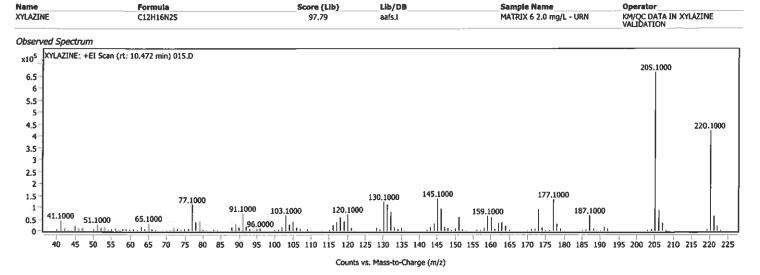


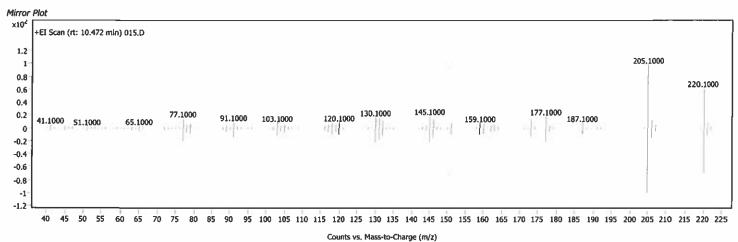


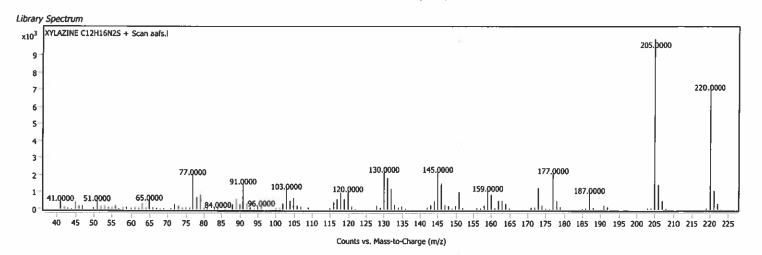
Sample Spectra



XYLAZINE; C12H16N2S

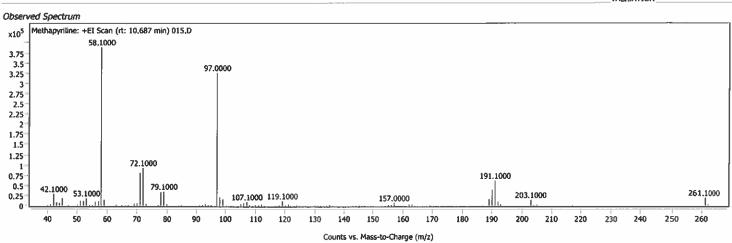


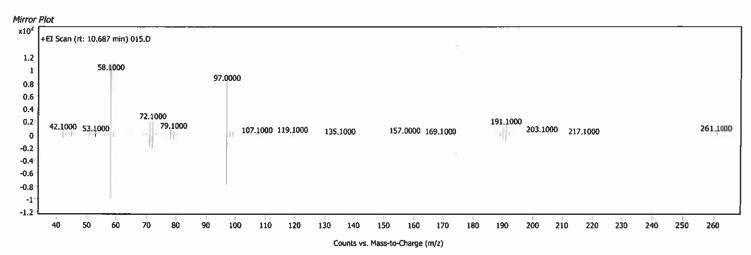


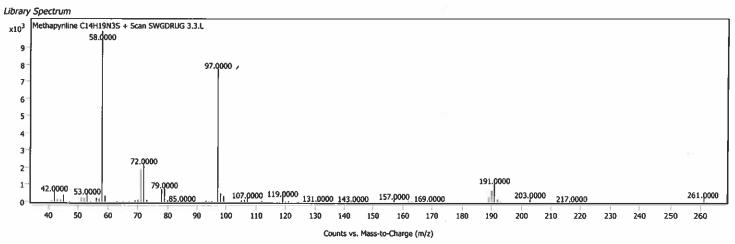
















Sample Information

Sample Name Instrument

Position

Operator

MATRIX BLANK after 2.0 mg/L

KM/QC DATA IN XYLAZINE VALIDATION

#3 - Enhanced

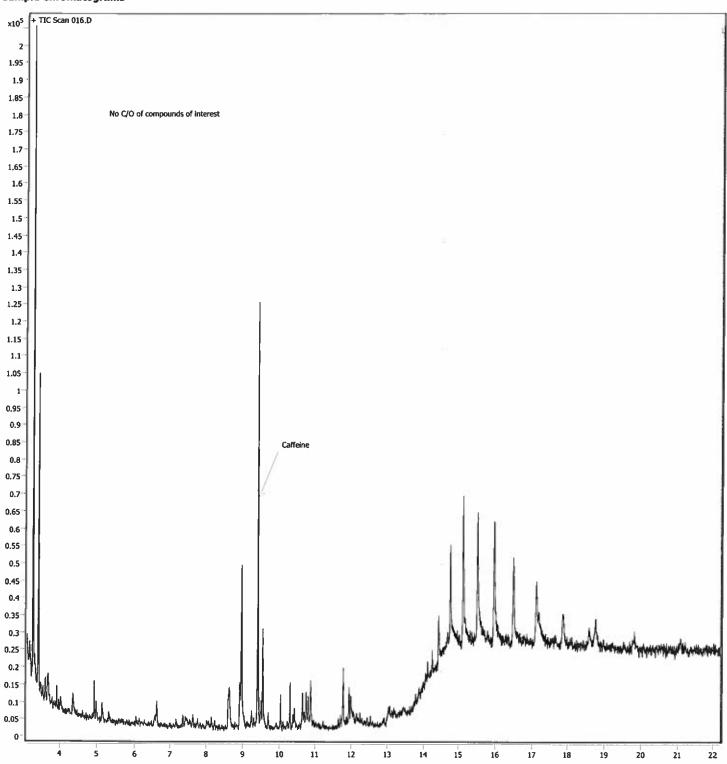
42

hanced Acq, Time (Local)
Method Path (Acq)

Data File Path

C:\MassHunter\GCMS\1\data\BASES\092821\016.D 9/28/2021 8:08:07 PM (UTC-04:00) C:\MassHunter\GCMS\1\methods\ALKAL1.M

Sample Chromatograms



Counts vs. Acquisition Time (min)

File :C:\Users\TOX\Desktop\092821\016.D
Operator : KM/QC DATA IN XYLAZINE VALIDATION

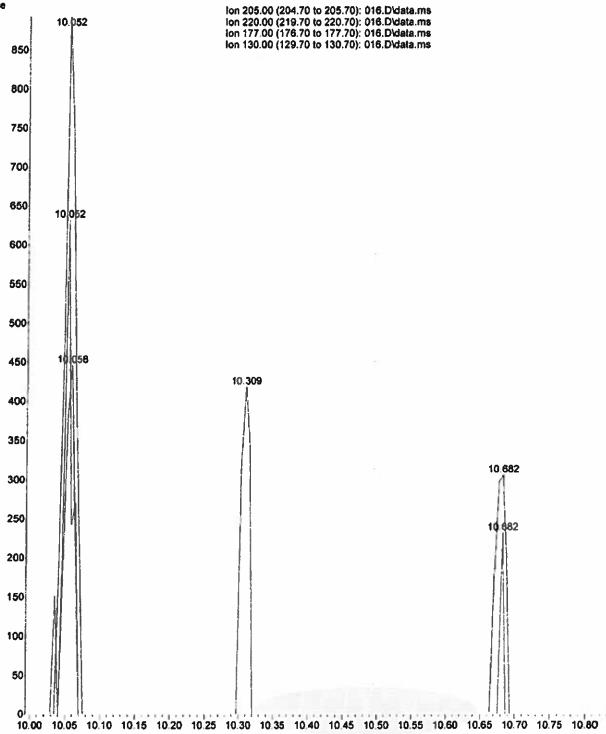
Acquired : 28 Sep 2021 20:08 using AcqMethod ALKALI.M

Instrument: #3 - Enhanced

Sample Name: MATRIX BLANK after 2.0 mg/L

Misc Info : Vial Number: 42

Abundance

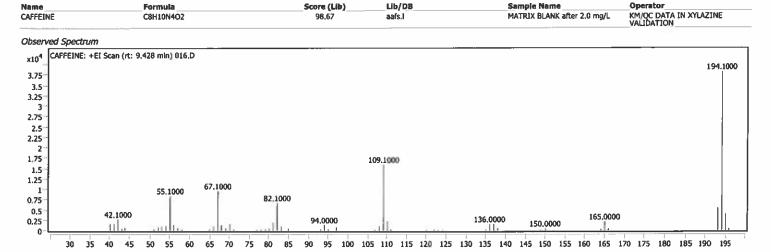


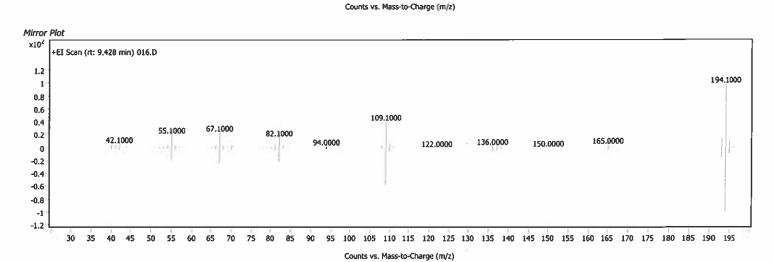


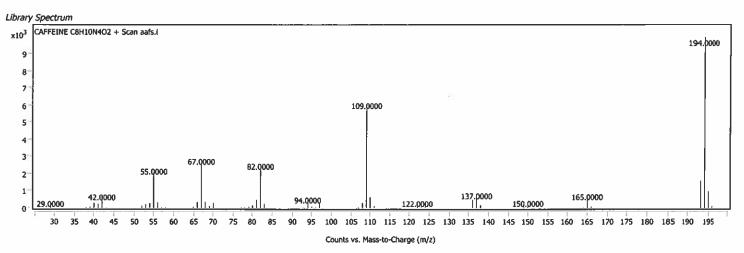
Sample Spectra



CAFFEINE; C8H10N4O2







Injection Date:

9/28/2021

7:50:15 PM

Seq Line:

16 Vial 16

Sample Info:

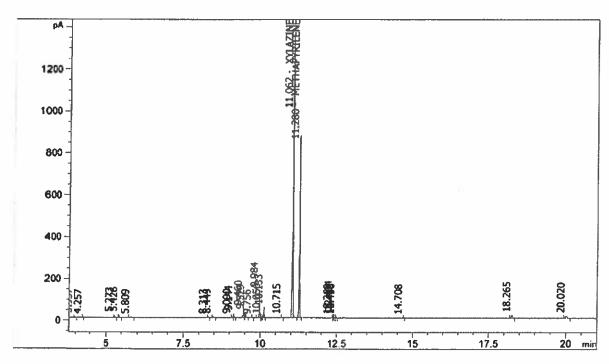
Sample Name:

MATRIX 6 2.0 mg/L - URN

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT (min)	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000 11.062 11.280	11.033 11.046 11.278	0.000 2057.273 1019.985	0.000 1355.428 866.136	0.000000	TRAMADOL XYLAZINE RRT - 0.9807 METHAPYRILENE

Injection Date: Sample Name:

9/28/2021

8:14:33 PM

Seq Line:

17 Vial 17

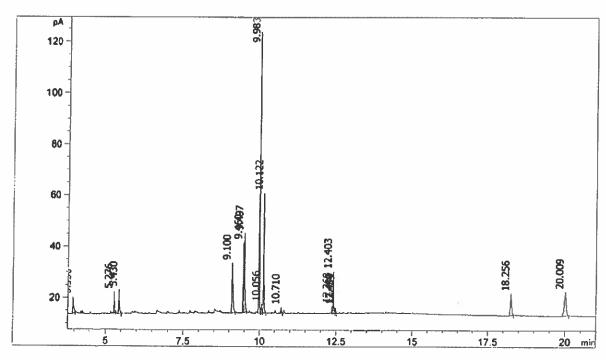
MATRIX BLANK after 2.->

Sample Info:

Acq. Method:

C:\CHEM32\1\METHODS\ALKALI.M

Analysis Method: C:\CHEM32\1\METHODS\092821KMVALI2.M



RT [min]	Exp RT [min]	Area	Height	Amount mg/L	Compound
0.000 0.000 0.000	11.033 11.046 11.278	0.000 0.000 0.000	0.000 0.000 0.000	0.000000	TRAMADOL XYLAZINE METHAPYRILENE