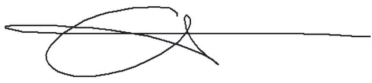


REVIEWED  
By Britany Wylie at 10:09 am, Jun 15, 2020



6/9/2020

**Worklist: 4294**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-0959	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-0968	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-0982	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-0994	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-0995	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-1038	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1039	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1047	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1072	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-1076	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1084	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1085	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1086	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1089	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

# AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date: 06/09/2020

Analyst: Anne Nord

Plate lot#: 200511

Plate Expiration: 11/11/2020

**Mobile phase A:** 10mM Amm Form  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.1% Formic Acid in MeOH  
Ethyl Acetate LC Methanol

**Blank Blood Lot:** 20A52255 **Blank Urine lot:** 6920 **Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

**LCMS-QQQ ID:** 69679

## Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

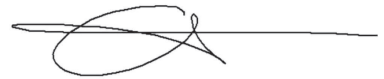
## Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis pipette: 250 ul urine in blank well, add 40 ul BG Turbo, add 100 ul 500 mm sodium phosphate buffer mix for at least five minutes ambient temperature.  
Pipette 250 µL blood (calibrated pipette) or 250 ul urine in wells of analytical (standards) plate. **Pipette ID: 1926134**
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 4. Pipette 250 µL of 0.5 M ammonium hydroxide in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer 300 µL of blood or urine+base mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
*(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792*
- 8. Wait 5 minutes.
- 9. Add 900 µL ethyl acetate.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 12. Add 900 µL ethyl acetate.
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left).*
- 15. Remove plate containing eluate. **Urine samples add 50 ul 1% HCl in MeOH** Place on SPE Dry and evaporate to dryness at approx. 35°C.  
*SPE Dry ID: 66819*
- 16. Reconstitute in 100 µL 100% LC MeOH and heat seal plate with foil. Place in autosampler and run worklist.

## Post-Analytic

- 1. Open quantitation software and create a new quantitation batch.
- 2. Make necessary changes to integration limits
- 3. Evaluate samples, S/N of primary transition >5 and S/N of secondary transition >3 or evaluation of peak symmetry and resolution. Within +/- 2% or 0.1 min RT of administrative control. Calculated concentration 5 or greater or 2-5 for discretionary range.
- 4. Did all QCs pass for each analyte? (If no is it described in comments?)
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *Olanzapine not evaluated.*



Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh Hydromorphone, Diphenhydramine, Nortriptyline, Chlordiazepoxide

Stock solution 1mg/ml 50 ul each in 4800ul meOH (Alfa Aesar lot Z22F712)

ppd 5/6/20: Exp: 6/1/20 lot 5620

by baw

Drug	lot	expiration
Hydromorphone	FE04101502	6/1/2020
Doxylamine	FN11201501	11/1/2020
nortriptyline	FN06191503	8/1/2020
chlordiazepoxide	FE07241502	8/1/2020

AM 25/28 control 500 ul working solution (5620) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 5/6/20, exp 6/1/20 lot u32420

negative urine 41520

by BAW

AM 25/28 Blood Control: 50ul working solution (562020) in 4950 ul neg blood (100ng/mL Expected concentration)

ppd 5/6/20, exp 6/1/20 lot b3920

neg blood lot 20A52255

by BAW

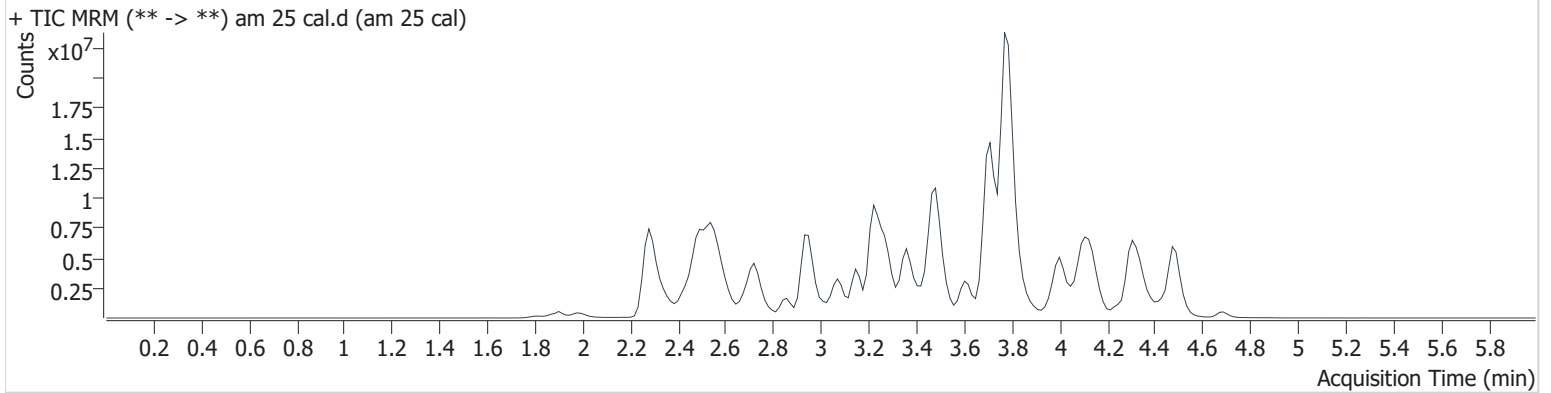
ok to use until 11/6/20 (evaluating doxylamine, nortriptyline, and chlordiazepoxide)

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\mds.batch.bin  
**Calibration Last Update** 6/10/2020 1:35:46 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 cal.d
<b>Type</b>	Cal	<b>Sample</b>	am 25 cal
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	6/9/2020 12:17:06 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.474	33229	35404.3	311.3	1073574	10.000
7-aminoclonazepam	3.301	925358	397.0	303.4	3994631	10.000
7-aminoflunitrazepam	3.529	1401640	369.4	409.0	3994631	10.000
Acetyl Fentanyl	3.450	254728	89.9	7367.7	16361058	10.000
Acetyl Norfentanyl	2.482	142928	534.5	74.7	16361058	10.000
a-hydroxyalprazolam	4.323	159672	102.8	204.3	3994631	10.000
alpha-hydroxymidazolam	4.337	1051844	154.7	911.0	3994631	10.000
alpha-PVP	3.154	2594896	4367.3	449.8	5322971	10.000
Alprazolam	4.433	1384945	431.6	1263.6	12341899	10.000
Amitriptyline	4.147	1250458	297.0	∞	5537223	10.000
Amphetamine	2.472	1820310	651.2	615.1	5322971	10.000
Benzoylcegonine	3.072	472282	431.8	128.9	219104	10.000
Buprenorphine	3.783	189110	329.9	7736.3	841490	10.000
Bupropion	3.382	2551105	2523.4	702.4	10227831	10.000
Carbamazepine	4.012	4479925	1469.5	930.2	201417	10.000
Carisoprodol	3.994	1023482	321.4	148.5	5471937	10.000
Chlordiazepoxide	4.435	403128	29.3	1027.6	12341899	10.000
Chlorpheniramine	3.624	17828	109.9	16659.7	35244200	10.000
Citalopram	3.772	1584779	1375.9	365.4	35244200	10.000
Clonazepam	4.264	1039302	516.9	337.1	12341899	10.000
Cocaine	3.223	3843011	1046.4	1334.0	23111690	10.000
Codeine	2.342	227354	1418.7	1313.0	5891020	10.000
Cyclobenzaprine	4.055	2548851	1140.6	156.8	5537223	10.000
Desipramine	4.102	3042750	7780.9	490.4	5537223	10.000
Dextromethorphan	3.763	1252666	441.9	1104.6	6712490	10.000
Dextrorphan	3.029	1661840	2237.9	13348.3	6712490	10.000
Diazepam	4.696	763096	2512.0	663.4	12341899	10.000
Dihydrocodeine	2.310	559072	2422.1	542.8	5891020	10.000
Diphenhydramine	3.718	5879170	2547.1	1396.0	35244200	10.000
Doxepin	3.837	1466080	775.6	135.3	11150321	10.000
Doxylamine	3.272	6067469	2675.1	14040.0	6712490	10.000
EDDP	3.777	4600573	3935.3	1152742.0	2250496	10.000
Estazolam	4.343	2662054	575.5	550.9	12341899	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Etizolam	4.459	129358	47812.1	131129.7	12341899	10.000
Fentanyl	3.694	207377	124.2	264.9	11442230	10.000
Flunitrazepam	4.386	1666956	1465.9	331411.9	12341899	10.000
Fluoxetine	4.066	1998176	871.4	881.0	5621452	10.000
Flurazepam	3.815	2082356	7173.5	602.7	12341899	10.000
Hydrocodone	2.554	998059	1556.9	497.1	5891020	10.000
Hydromorphone	1.982	855375	11968.2	723.8	115799	10.000
Imipramine	4.100	4162158	1389.2	529.3	5537223	10.000
Ketamine	2.969	2094792	2448.3	196.0	8624931	10.000
Lamotrigine	3.151	187787	202.9	246.4	35244200	10.000
Levamisole	2.498	1876378	850.2	227.5	23111690	10.000
Lorazepam	4.248	308459	181.2	80.6	12341899	10.000
Maprotiline	4.131	975957	116.5	387.8	5537223	10.000
MDA	2.605	2078452	926.1	331.0	10359668	10.000
MDEA	2.864	3092637	3261.2	13935.2	10359668	10.000
MDMA	2.697	3430150	529.9	1380.2	10359668	10.000
Meperidine	3.228	1618171	457.5	445.1	6712490	10.000
Meprobamate	3.385	638084	647.0	228.3	5471937	10.000
Methadone	4.111	4375817	627.2	387.6	2250496	10.000
Methamphetamine	2.578	5404701	247.8	195.3	10359668	10.000
Methocarbamol	3.290	253219	422.2	269.8	2250496	10.000
Methylphenidate	3.153	6795685	2559.7	835.2	10466740	10.000
Metoprolol	3.089	372687	886.9	34367.5	6712490	10.000
Midazolam	4.231	418990	2367.9	1717.9	12341899	10.000
Mirtazapine	3.349	1512537	26349.3	1734.8	6712490	10.000
Mitragynine	3.845	220552	99650.6	237594.7	6712490	10.000
Morphine	1.815	146304	24689.2	232.5	115799	10.000
Norbuprenorphine	3.509	37668	255.5	8766.2	841490	10.000
Nordiazepam	4.530	848099	994.2	987.6	12341899	10.000
Norfentanyl	2.954	3086254	879.5	251.3	16361058	10.000
Norhydrocodone	2.540	19492	118.7	22.8	115799	10.000
Normeperidine	3.261	1295539	1595.1	603.9	35244200	10.000
Noroxycodone	2.492	717707	200.9	181.8	8624931	10.000
Nortriptyline	4.148	1243769	493638.5	161.7	5537223	10.000
O-desmethyl-tramadol	2.511	4475837	1122.7	181.6	35244200	10.000
Olanzapine	3.100	64661	6.4		201417	10.000
Oxazepam	4.329	1354590	205.9	75.3	8239421	10.000
Oxycodone	2.491	1752855	551.4	1140.9	8624931	10.000
Oxymorphone	1.888	993472	365.3	2875.2	115799	10.000
Paroxetine	4.078	264927	267.0	62444.3	5621452	10.000
Phenazepam	4.474	1850661	17889.7	13806.4	12341899	10.000
Phencyclidine	3.597	3203863	1609.2	838.9	6712490	10.000
Phentermine	2.745	987360	40.7	12.6	10466740	10.000
Phenytoin	3.918	337090	650.3	288.8	201417	10.000
Promethazine	4.021	4862371	2851.7	551.8	35244200	10.000
Pseudoephedrine	2.288	28569261	269.9	172.1	10359668	10.000
Quetiapine	3.953	1307523	1908.4	297017.2	24725941	10.000
Sertraline	4.296	1108320	1128.0	415.5	5621452	10.000
Sufentanil	3.968	164211	2407.6	119.3	16361058	10.000
Tapentadol	3.094	2835357	1140.1	375.3	8624931	10.000
Temazepam	4.495	2361799	431.1	88.6	12341899	10.000
Tramadol	3.059	5765920	6449.5	95.6	35244200	10.000
Trazodone	3.801	2280339	14739.0	2198.4	11150321	10.000
Venlafaxine	3.470	4060570	814.0	327.0	5621452	10.000
Zaleplon	4.159	1205930	1284.0	453.5	24725941	10.000
Zolpidem	3.498	4884979	1924.8	672.0	24725941	10.000
Zopiclone	3.417	717513	706.5	321.1	3814021	10.000

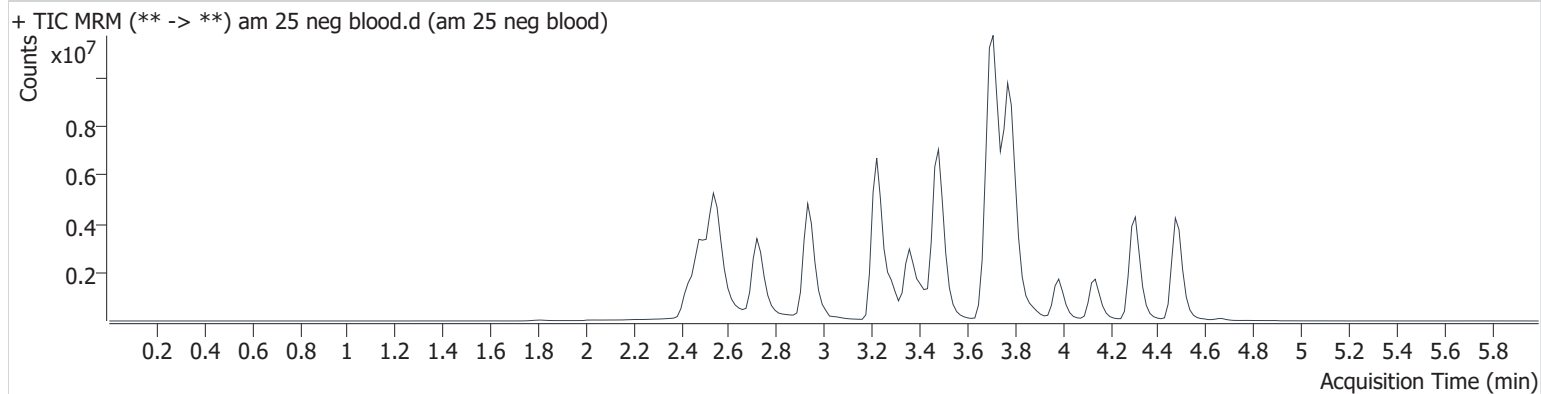


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\mds.batch.bin  
**Calibration Last Update** 6/10/2020 1:35:46 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 neg blood.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 neg blood
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	6/9/2020 12:30:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



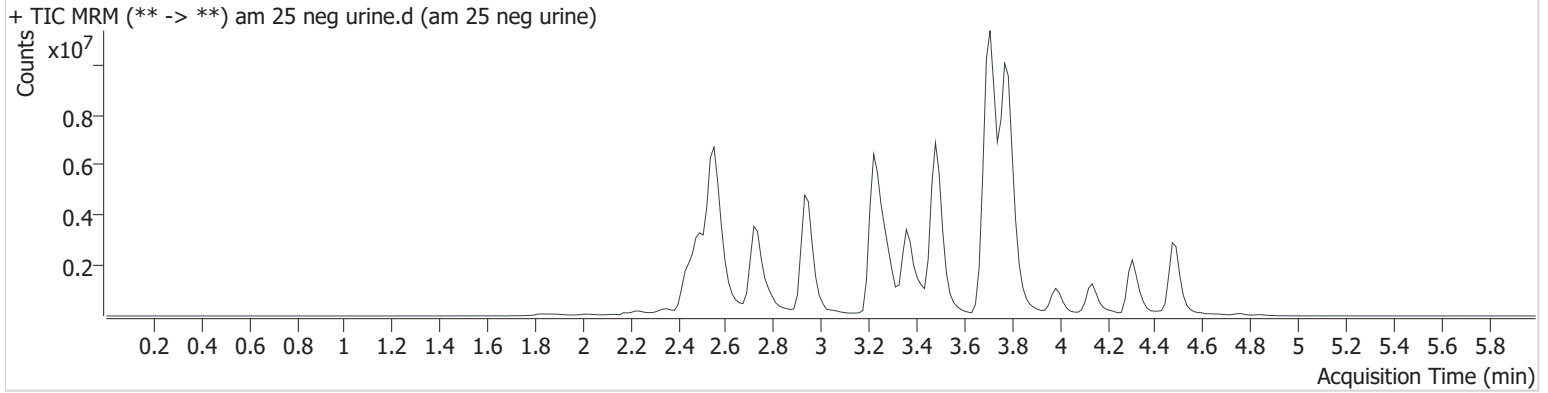
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\mds.batch.bin  
**Calibration Last Update** 6/10/2020 1:35:46 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 neg urine.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 neg urine
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A3	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	6/9/2020 1:50:57 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

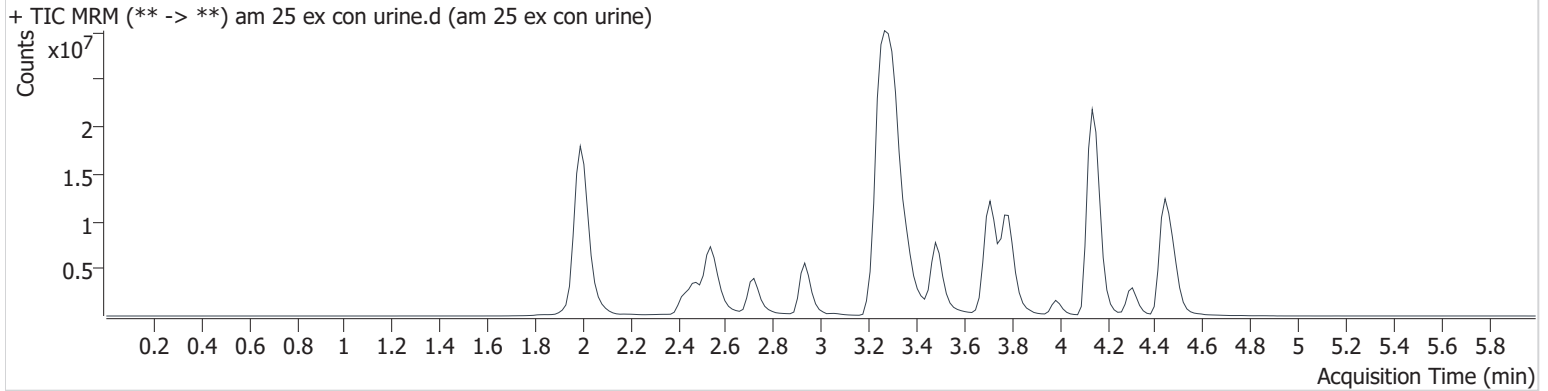


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\mds.batch.bin  
**Calibration Last Update** 6/10/2020 1:35:46 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 ex con urine.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 ex con urine
<b>Acq. Method</b>	MDS 5-27-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-B3	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	6/9/2020 1:57:39 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Chlordiazepoxide	4.450	17654203	124828.6	$\infty$	10459325	516.754
Doxylamine	3.272	95605534	853.9	140815.6	7084802	149.290
Hydromorphone	1.997	41760079	188428.0	55707.8	141949	398.270
Nortriptyline	4.148	46073287	81997.2	2208.9	4110803	498.971





## AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 06/09/2020

Analyst: Anne Nord

Plate lot#: 200303

Plate Expiration: 09/03/2020

**Mobile phase A:** 10mM Ammonium Formate  
0.1% Formic Acid in Water

**Mobile phase B:** 0.1% Formic acid in MeOH  
MTBE Hexane

**Blank Blood Lot:** 20A52255 **Urine Blank:** 6920

**Column:** Phenomenex Phenyl Hexyl (4.6x50mm: 2.6 um)

**LCMS-QQQ ID:** 69679

### Pre-Analytic:

- 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

### Analytic:

- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.  
Pipette 1000 µL blood (calibrated pipette) in wells of analytical (standards) plate. Pipette ID: K52558g  
Pipette 1000 ul urine to analytical (standards) plate.
- 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes. Shaker ID: 66759
- 4. Pipette 500 µL 0.1% formic acid in blood wells 500 ul saturated phosphate buffer in urine wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 6. Transfer 800 µL of blood acid or urine acid mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).  
(Load at 85-100 PSI- Selector to the right) Manifold ID: 66792
- 8. Wait 5 minutes.
- 9. Add 2.25 mL MTBE (add in 3 increments of 750 µL).
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- 12. Add 2.25 mL hexane (add in 3 increments of 750 µL).
- 13. Wait 5 minutes.
- 14. Apply positive pressure for approx. 10-15 seconds. (12-15 PSI- Selector to the left).
- 15. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C.  
SPE Dry ID: 66819
- 16. Reconstitute in 100 µL 100% LCMS MeOH and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- 1. Create batch and process data.
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/-0.100 min whichever is greater of the average retention time of the calibrators.
- 4. Did all QCs pass for each analyte? Yes
- 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:



**Toxicology AM method 27/26 external prep information**

working solution 1 ug/ml in meoh C-THC, THC-OH, THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 75 ul THC-OH in 9767.5 ul meOH

Ppd 2/13/20 Exp: 8/13/20 lot 21320 by AMN

Drug	lot	expiration
C-THC	FE07171501	9/1/2020
THC-OH	FE07721601	7/1/2021
THC	FE001041701	3/1/2022

AM 27/26 blood control 100 ul working solution lot (91319) in 9900 ul blood lot (20A52255)

ppd 02/13/20 Exp 08/13/20 lot b81320 Concentration 7.5 ng/ml THC, THC-OH and 15 ng/ml C-THC by AMN

AM 27/26 urine control 400 ul working solution lot (21320) in 9600 ul urine lot (6920)

ppd 4/17/20 Exp 9120 lot u101720 Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC by BAW out of use 6/8/2020  
ppd 6/9/20 exp 8/13/20 lot 6920 Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC by amn

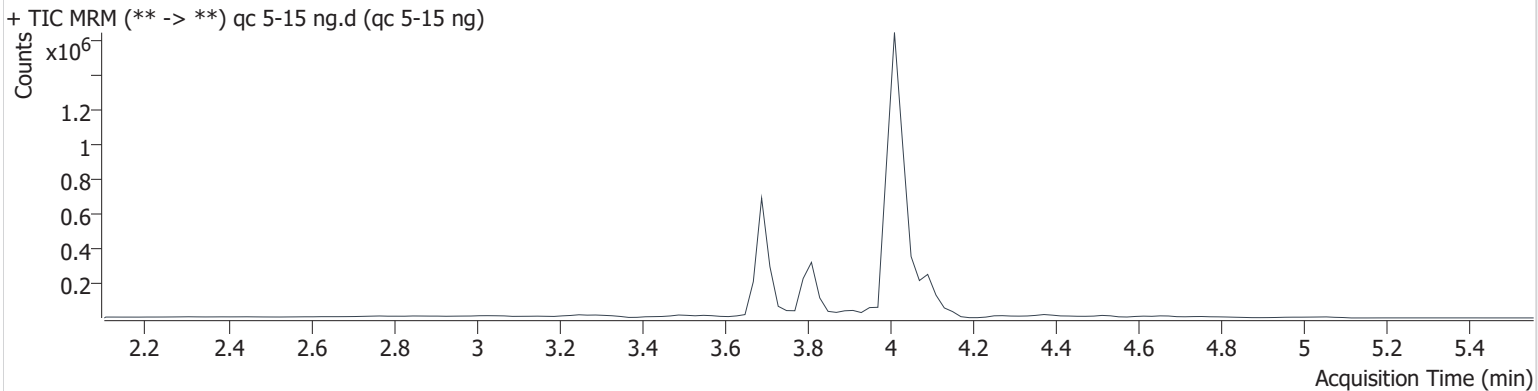


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-15 ng.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-15 ng
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:44:22 PM		

**Sample Chromatogram**



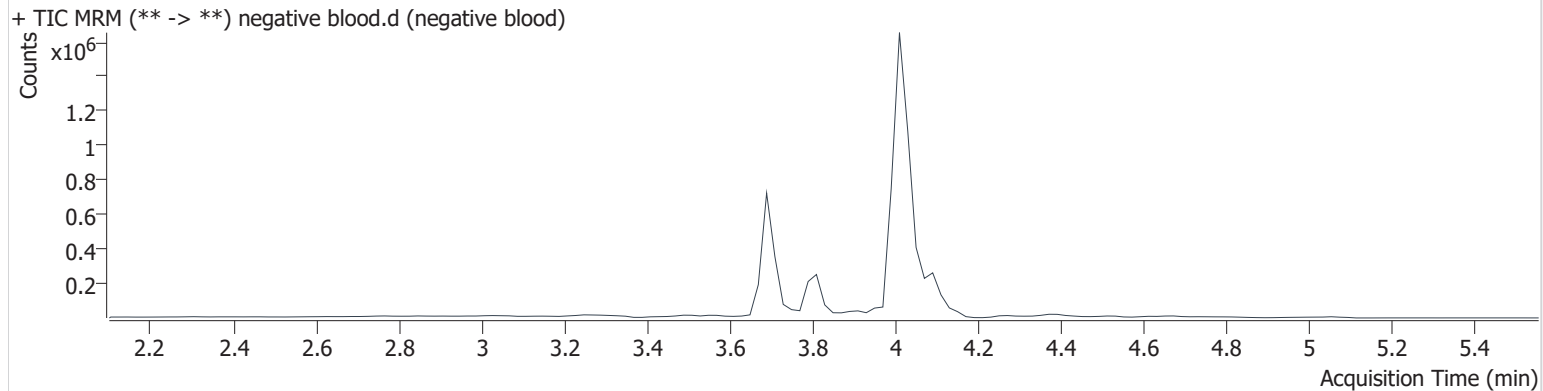
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	11395	313962	4.700 ng/ml
THC-COOH	3.812	91178	544784	14.522 ng/ml
THC-OH	3.696	148430	1406288	5.332 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A2	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:50:59 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

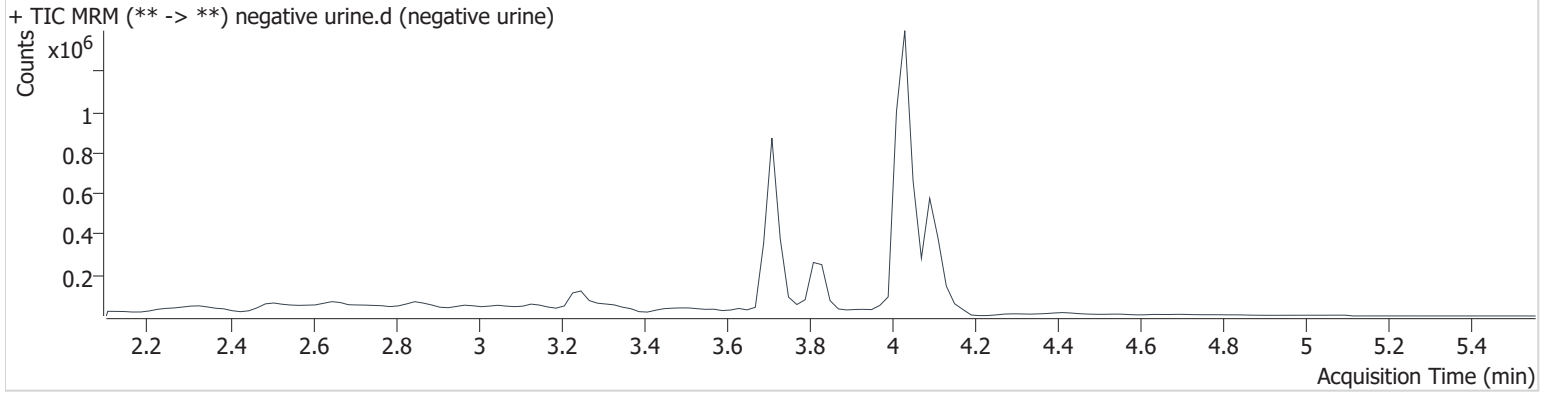


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-E3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 5:10:15 PM		
<b>Sample Info.</b>			

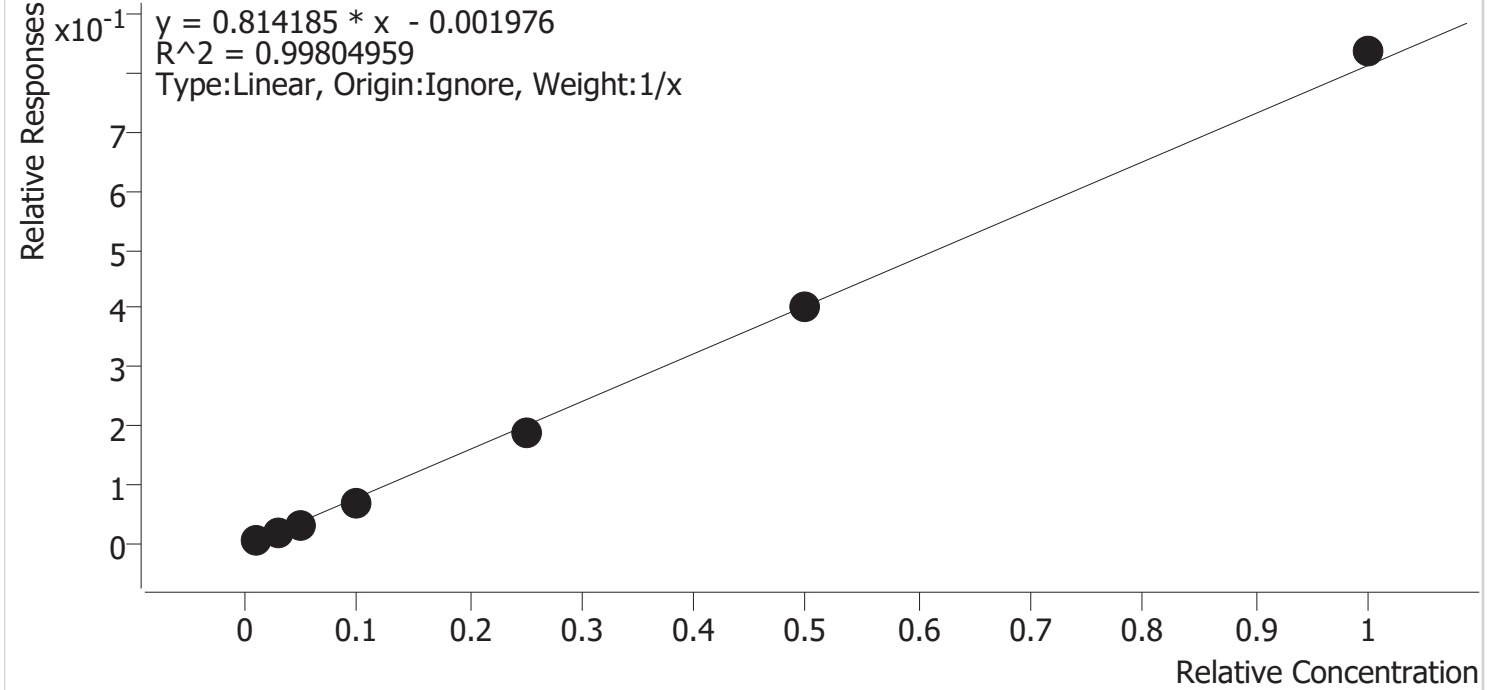
## Sample Chromatogram



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 6/10/2020 1:37 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



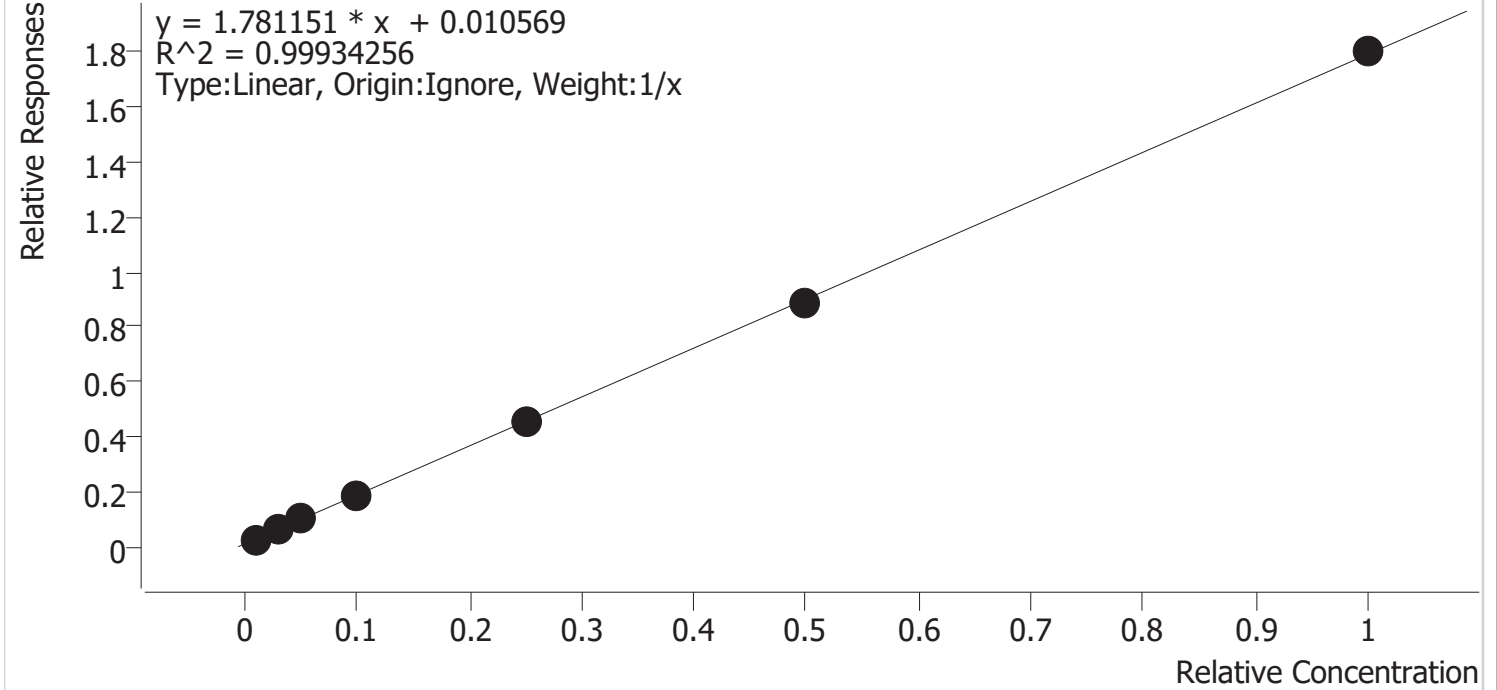
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✓	1.0	1.2	124.4
cal 2	2	✓	3.0	2.9	95.8
cal 3	3	✓	5.0	4.6	91.6
cal 4	4	✓	10.0	9.1	91.0
cal 5	5	✓	25.0	23.8	95.4
cal-6	6	✓	50.0	49.5	99.0
cal-7	7	✓	100.0	102.9	102.9



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Last Cal. Update** 6/10/2020 1:37 PM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-d3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✓	1.0	0.8	84.6
cal 2	2	✓	3.0	3.2	107.7
cal 3	3	✓	5.0	5.5	109.7
cal 4	4	✓	10.0	10.1	100.5
cal 5	5	✓	25.0	24.6	98.5
cal-6	6	✓	50.0	49.2	98.5
cal-7	7	✓	100.0	100.5	100.5

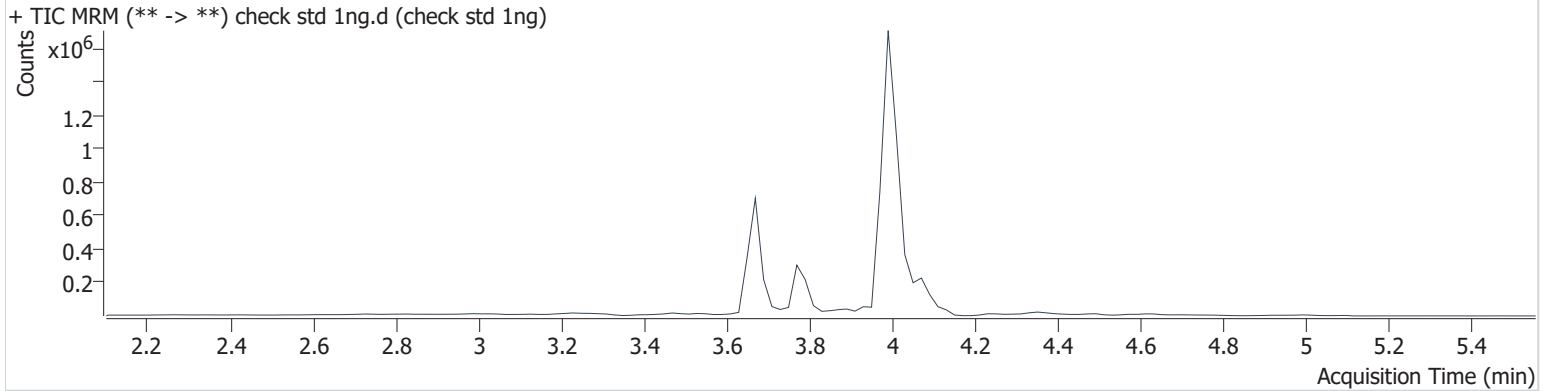


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	check std 1ng.d
<b>Type</b>	Cal	<b>Sample</b>	check std 1ng
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 2:51:31 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	2364	289958	1.244 ng/ml <b>Low</b>
THC-COOH	3.792	33175	624391	4.355 ng/ml <b>Low</b>
THC-OH	3.676	39866	1555312	0.846 ng/ml <b>Low</b>

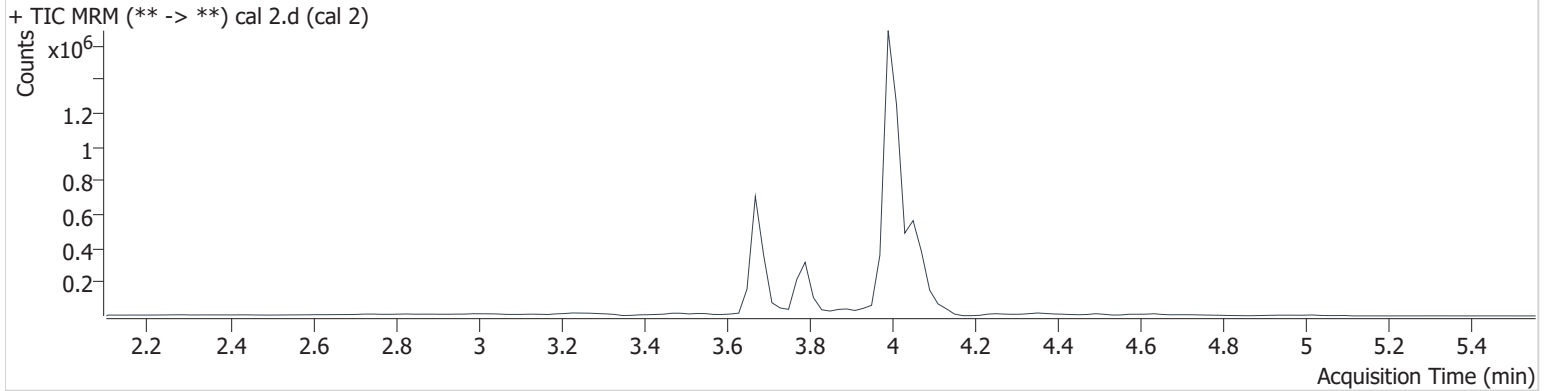


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-B1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 2:58:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



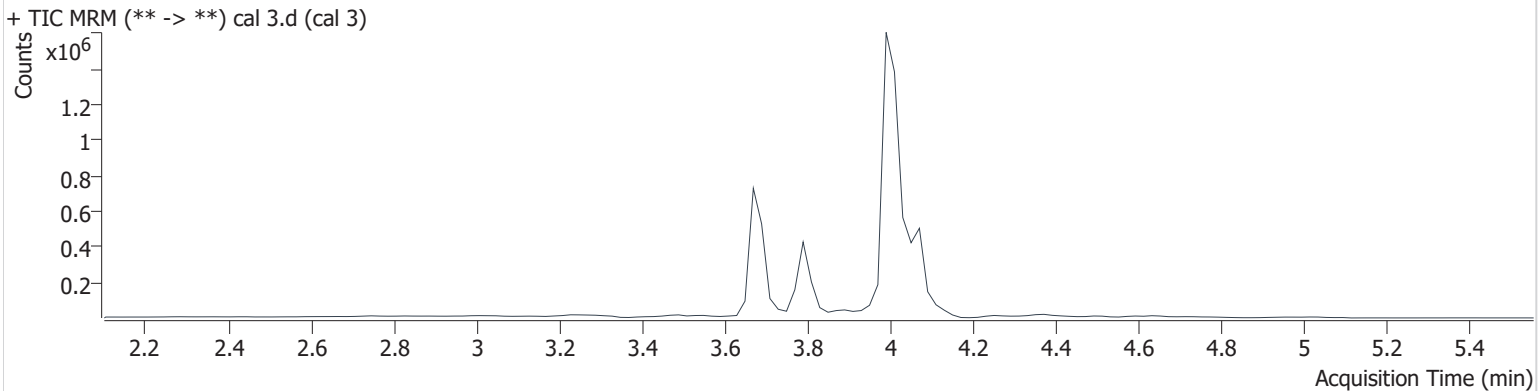
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	17902	835559	2.874 ng/ml <b>Low</b>
THC-COOH	3.792	75531	582060	11.175 ng/ml
THC-OH	3.676	101397	1488863	3.230 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:04:47 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	28759	814598	4.579 ng/ml
THC-COOH	3.792	131565	595397	19.293 ng/ml
THC-OH	3.676	168079	1552338	5.486 ng/ml

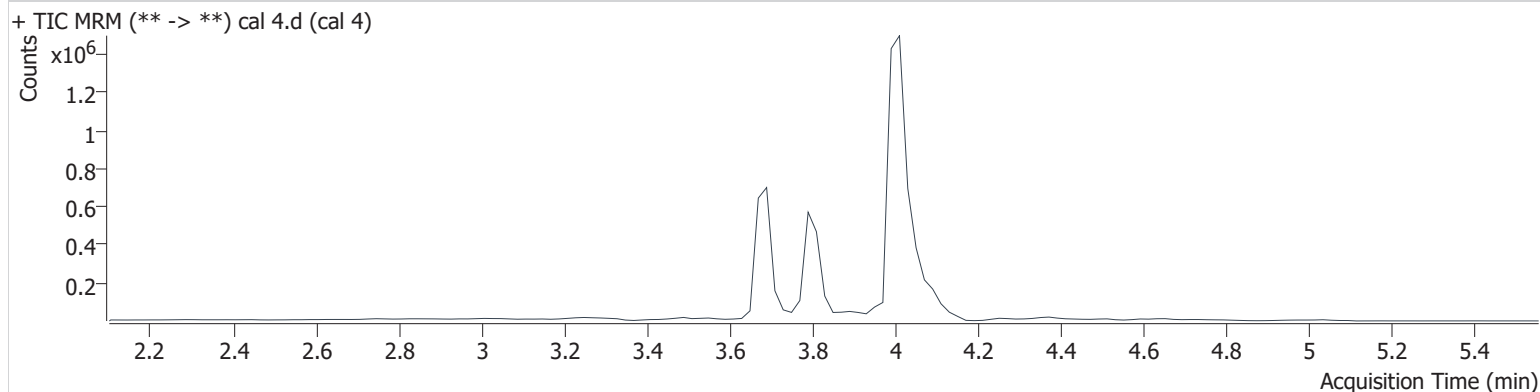
# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-D1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:11:23 PM		

**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	26953	373773	9.099 ng/ml
THC-COOH	3.812	351803	599153	51.884 ng/ml
THC-OH	3.696	304003	1602883	10.055 ng/ml

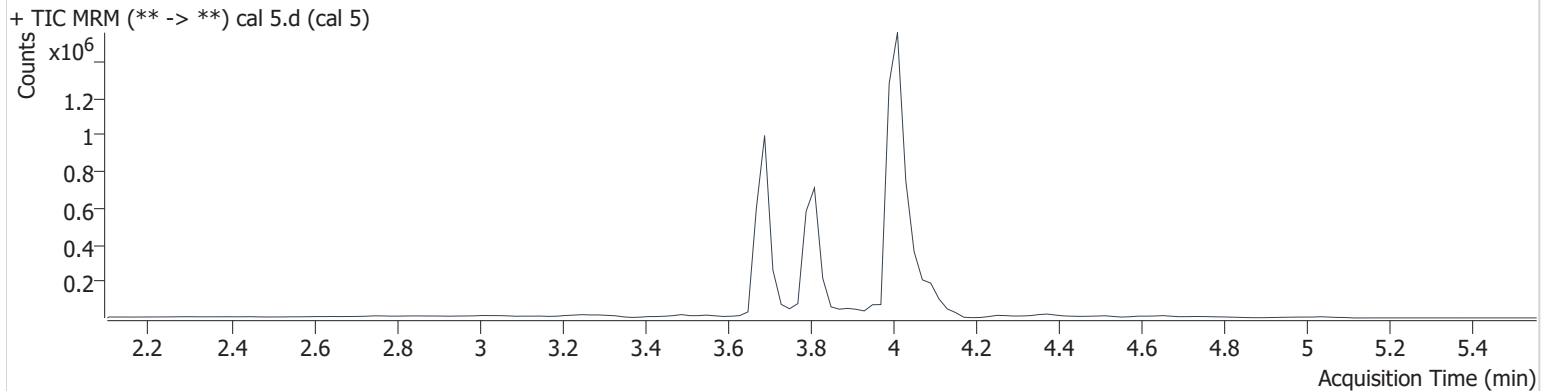


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-E1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:18:00 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



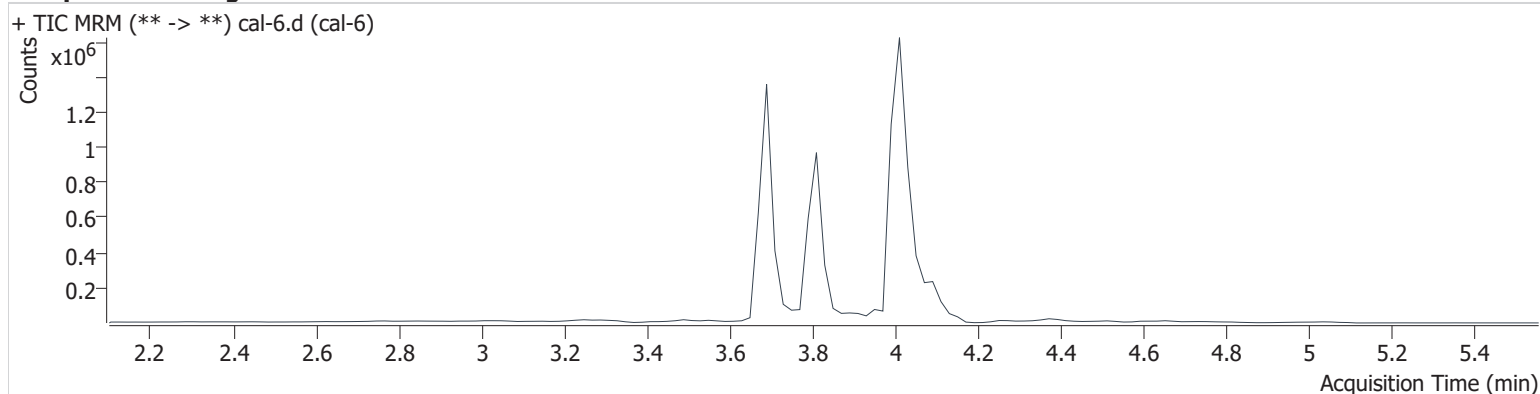
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	60361	314082	23.847 ng/ml
THC-COOH	3.812	511956	592392	76.542 ng/ml
THC-OH	3.696	708184	1576727	24.623 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal-6.d
<b>Type</b>	Cal	<b>Sample</b>	cal-6
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-F1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:24:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



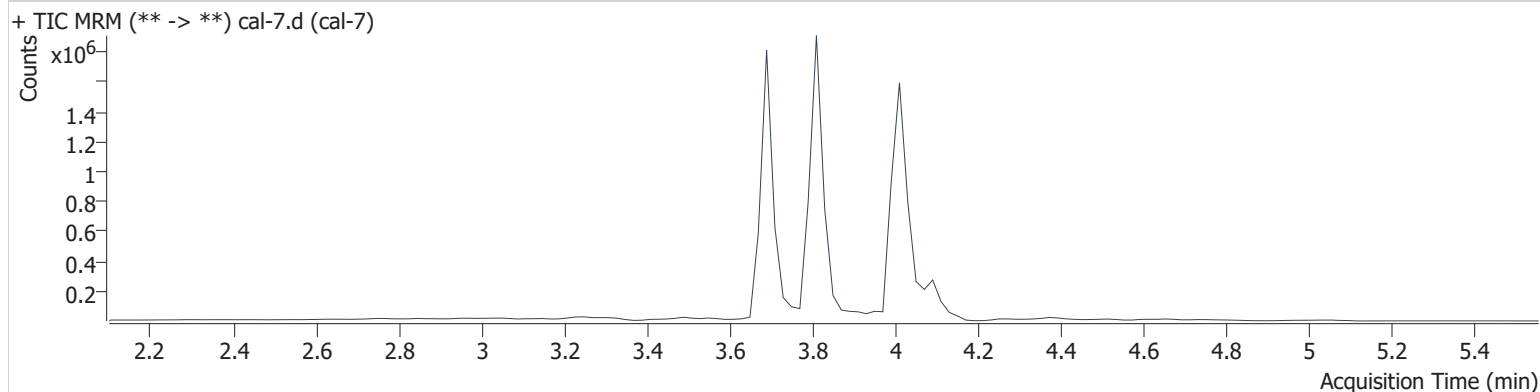
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	113946	284252	49.477 ng/ml
THC-COOH	3.812	690513	610637	100.268 ng/ml
THC-OH	3.696	1380601	1555304	49.244 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	cal-7.d
<b>Type</b>	Cal	<b>Sample</b>	cal-7
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-G1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 3:31:13 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



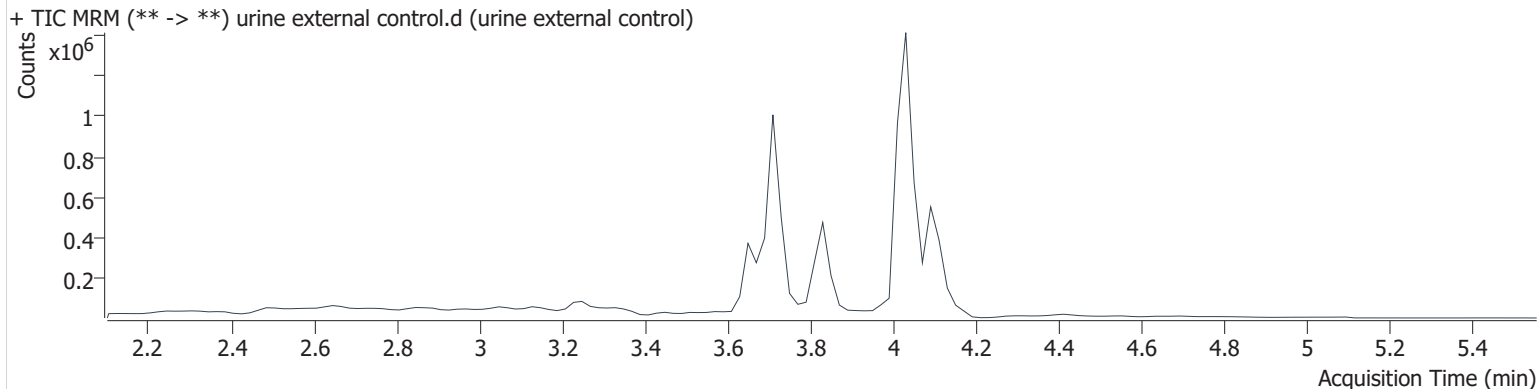
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	189539	226816	102.879 ng/ml
THC-COOH	3.812	1459189	526088	246.483 ng/ml
THC-OH	3.696	2356483	1308485	100.517 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\am 25-26 060920\QuantResults\cann screen.batch.bin  
**Calibration Last Update** 6/10/2020 1:37:07 PM

<b>Instrument</b>	69679	<b>Data File</b>	urine external control.d
<b>Type</b>	Sample	<b>Sample</b>	urine external control
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-F3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	6/9/2020 5:16:51 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	123575	852348	18.050 ng/ml
THC-COOH	3.832	246346	480342	45.270 ng/ml
THC-OH	3.716	569075	1747388	17.691 ng/ml