

8/19/2020

REVIEWED




By Sarah Pickle at 11:43 am, Aug 21, 2020

Worklist: 4440

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2020-1579	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1580	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1581	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-1584	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1588	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1595	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1616	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2020-1617	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2020-1629	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-2742	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-2852	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-2853	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-2854	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1784	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2164	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2165	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2167	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2190	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2192	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2193	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2196	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 4440



<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-2197	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2198	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-2375	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: 8/18/20 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:** 73020 **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 20% LC MeOH in LC Water 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:

Toxicology AM method 25/28 urine external control prep
working solution 10000 ng/ml in meoh methamphetamine, temazepam, midazolam
Stock solution 1mg/ml 50 ul each in 4850 ul MeOH (fisher 195629)

ppd 8/6/20: Exp: 4/1/2021 lot 4121 by baw

Drug	lot	expiration
Methamphetamine	FE08101708	10/1/2022
midazolam	FE01221602	4/1/2021
temazepam	FE04261601	5/1/2021

AM 25/28 control 500 ul working solution (4121) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 8/6/20, exp 4/1/2021 lot u4121 negative urine 73020 by AMN

4121

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

ppp 8/6/20, exp 4/1/21 lot b4121 neg blood 20G20792 by AMN

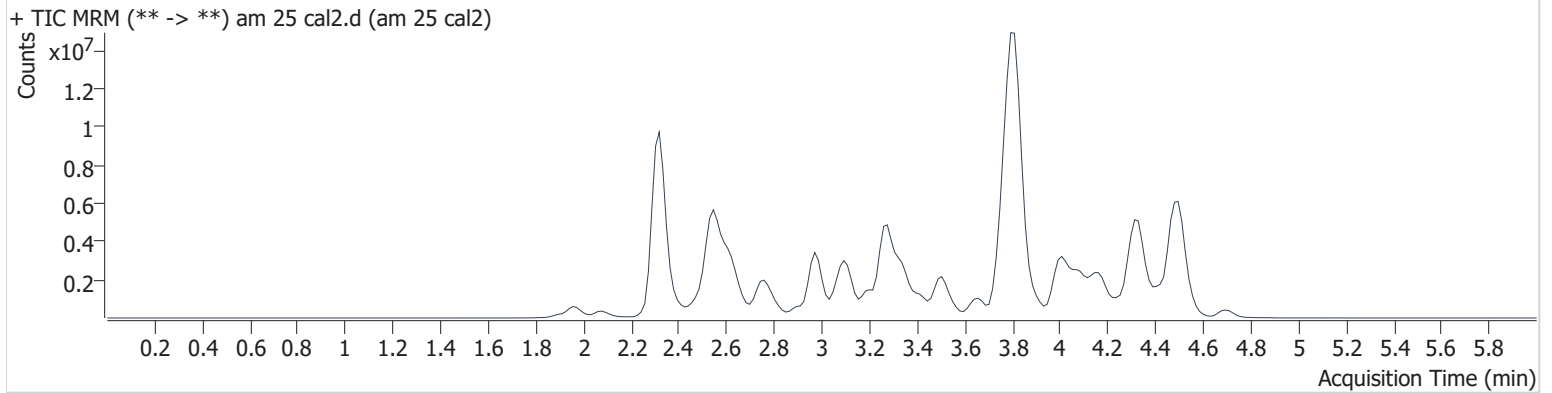
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\mds.batch.bin
Calibration Last Update 8/19/2020 4:33:56 PM

Instrument 69679
Type Cal
Acq. Method MDS 5-27-20.m
Sample Position P2-B1
Injection Volume 2.5
Acq. Date-Time 8/18/2020 3:45:37 PM
Sample Info.

Data File am 25 cal2.d
Sample am 25 cal2
Operator Anne Nord
Comment

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.544	29662	242.9	114.8	902830	10.000
7-aminoclonazepam	3.326	675138	677.5	637.6	2802379	10.000
7-aminoflunitrazepam	3.553	822002	278.2	231.8	2802379	10.000
Acetyl Fentanyl	3.535	61598	17.1	74.3	10843281	10.000
Acetyl Norfentanyl	2.521	110349	517.3	51.9	10843281	10.000
a-hydroxyalprazolam	4.331	244265	136.7	240.5	2802379	10.000
alpha-hydroxymidazolam	4.420	896286	2164.9	212.5	2802379	10.000
alpha-PHP	3.514	656619	2203.6	115.1	2341439	10.000
alpha-PVP	3.209	1247919	2305.3	290.7	2341439	10.000
Alprazolam	4.440	1957771	558.1	1096.8	17841388	10.000
Amitriptyline	4.201	263119	68.2	29.8	1185216	10.000
Amphetamine	2.512	853886	251.8	449.1	2341439	10.000
Benzoylcegonine	3.080	1460489	7495.7	424.1	349787	10.000
Brompheniramine	3.781	19674	13.2	9.8	10918283	10.000
Buprenorphine	4.052	57358	92.4	3340.1	382734	10.000
Bupropion	3.438	667863	807.2	251.2	2514274	10.000
Carbamazepine	4.020	3209350	∞	626.2	175751	10.000
Carisoprodol	4.003	1022242	329.8	89.6	5218908	10.000
Chlordiazepoxide	4.562	352066	288.5	473.8	17841388	10.000
Chlorpheniramine	3.679	5338	23.2	∞	10918283	10.000
Citalopram	3.826	680824	195.9	196.7	10918283	10.000
Clomipramine	4.423	401673	253.6	221.6	10918283	10.000
Clonazepam	4.271	1585758	1159.7	963.4	17841388	10.000
Clonazolam	4.176	644898	999.8	333210.3	17841388	10.000
Cocaethylene	3.505	1695006	550880.9	4404.6	14216067	10.000
Cocaine	3.262	2523121	193.5	133.2	14216067	10.000
Codeine	2.425	226523	202.3	221.4	4854295	10.000
Cyclobenzaprine	4.125	567835	449.0	60.7	1185216	10.000
Desipramine	4.156	586961	419.0	162.7	1185216	10.000
Dextromethorphan	3.817	354568	104.6	1891.8	1906475	10.000
Dextrorphan	3.068	992776	225.6	857.6	1906475	10.000
Diazepam	4.703	862864	813.4	951.9	17841388	10.000
Dihydrocodeine	2.363	634419	651.7	1053.5	4854295	10.000
Diphenhydramine	3.758	1661133	653.6	163.2	10918283	10.000



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	3.908	322234	227.9	49.9	7003520	10.000
Doxylamine	3.342	3371168	1052.5	266.0	1906475	10.000
EDDP	3.831	1470601	572.5	376.8	858939	10.000
Estazolam	4.351	2416201	917.0	1283.4	17841388	10.000
Etizolam	4.466	101726	25267.7	78460.0	17841388	10.000
Fentanyl	3.779	48983	15.1	238.0	2937897	10.000
Flualprazolam	4.300	502348	333.8	588.3	17841388	10.000
Flunitrazepam	4.408	1306640	684.0	1066.3	17841388	10.000
Fluoxetine	4.105	388292	486.9	719.6	1131539	10.000
Flurazepam	3.885	660462	632.1	324.4	17841388	10.000
Hydrocodone	2.638	857525	1608.7	240.1	4854295	10.000
Hydromorphone	2.081	717062	3911.7	7590.4	121339	10.000
Imipramine	4.154	839028	848.4	668.4	1185216	10.000
Ketamine	3.071	1638245	395.9	103.7	8563661	10.000
Lamotrigine	3.267	174162	367.1	70.7	10918283	10.000
Levamisole	2.583	1168858	119.4	∞	14216067	10.000
Levetireacetam	2.282	795512	298.1	329.1	10918283	10.000
Lorazepam	4.240	463645	∞	218.5	17841388	10.000
Maprotiline	4.186	202156	13.9	196.5	1185216	10.000
MDA	2.660	861253	131.5	1414.7	3814393	10.000
MDEA	2.904	1253032	276.2	136.6	3814393	10.000
MDMA	2.751	1776548	4095.5	447.5	3814393	10.000
Meperidine	3.283	616771	550.7	320.0	1906475	10.000
Meprobamate	3.394	733991	1295.7	163.5	5218908	10.000
Methadone	4.165	1237641	1327.1	109.8	858939	10.000
Methamphetamine	2.633	2007624	78.5	34.7	3814393	10.000
Methocarbamol	3.300	266427	261.8	74.5	858939	10.000
Methylphenidate	3.208	2728273	1091.3	1167.9	4059778	10.000
Metoprolol	3.128	265849	608.2	208984.3	1906475	10.000
Midazolam	4.542	268811	1455.2	7007.9	17841388	10.000
Mirtazapine	3.496	668570	8500.4	699.3	1906475	10.000
Mitragynine	3.930	49247	84213.4	154.4	1906475	10.000
Morphine	1.902	139789	∞	169.3	121339	10.000
Norbuprenorphine	3.563	8610	5.7	2571.7	382734	10.000
Nordiazepam	4.537	1081733	1068.7	526.4	17841388	10.000
Norfentanyl	2.994	1793100	3436.9	285.3	10843281	10.000
Norhydrocodone	2.594	32119	62.1	77.7	8563661	10.000
norketamine	3.103	240617	389.8	923.7	8563661	10.000
Normeperidine	3.301	412329	94.2	99.2	10918283	10.000
Noroxycodone	2.530	739502	125.0	475.4	8563661	10.000
Nortriptyline	4.203	251768	132.7	35.1	1185216	10.000
O-desmethyl-tramadol	2.550	5787613	1252.6	330.7	10918283	10.000
Olanzapine	3.567	128510	25730.9	19.4	175751	10.000
Oxazepam	4.336	2210920	371.7	241.3	13738470	10.000
Oxycodone	2.559	1845528	52.5	236.4	8563661	10.000
Oxymorphone	1.956	1000262	2747.7	19459.8	121339	10.000
Paroxetine	4.147	44267	127.7	∞	1131539	10.000
Phenazepam	4.480	1363416	3622.5	1532.0	17841388	10.000
Phencyclidine	3.651	964759	673.6	174.3	1906475	10.000
Phentermine	2.785	405712	27.0	5.3	4059778	10.000
Phenytoin	3.927	340099	1258.7	228.1	175751	10.000
Promethazine	4.092	1135627	295.3	101.2	10918283	10.000
Pseudoephedrine	2.328	32851365	2278.5	2383.6	3814393	10.000
Quetiapine	4.099	774041	402.4	634438.5	35631667	10.000
Sertraline	4.365	220547	96429.4	211.0	1131539	10.000
Sufentanil	4.084	31315	45.0	10.3	10843281	10.000
Tapentadol	3.119	1510277	353.1	563.5	8563661	10.000
Temazepam	4.502	3275167	709.9	216.0	17841388	10.000
Tramadol	3.114	4428576	840.0	21.1	10918283	10.000
Trazodone	4.100	1462885	446697.7	7319.2	7003520	10.000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.509	2252276	1014.8	155.1	1131539	10.000
Zaleplon	4.167	1113053	91818.0	452.7	35631667	10.000
Zolpidem	3.813	6778777	300.7	182.2	35631667	10.000
Zopiclone	3.655	290214	83.3	208.6	1414422	10.000

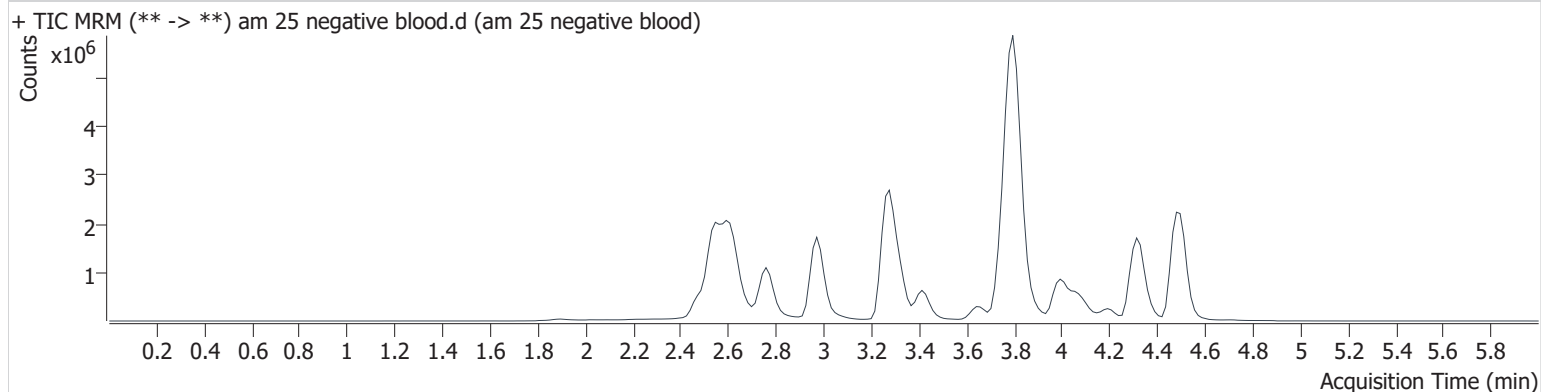
GA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\mds.batch.bin
Calibration Last Update 8/19/2020 4:33:56 PM

Instrument	69679	Data File	am 25 negative blood.d
Type	Sample	Sample	am 25 negative blood
Acq. Method	MDS 5-27-20.m	Operator	Anne Nord
Sample Position	P2-E5	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/18/2020 3:52:20 PM		
Sample Info.			

Sample Chromatogram



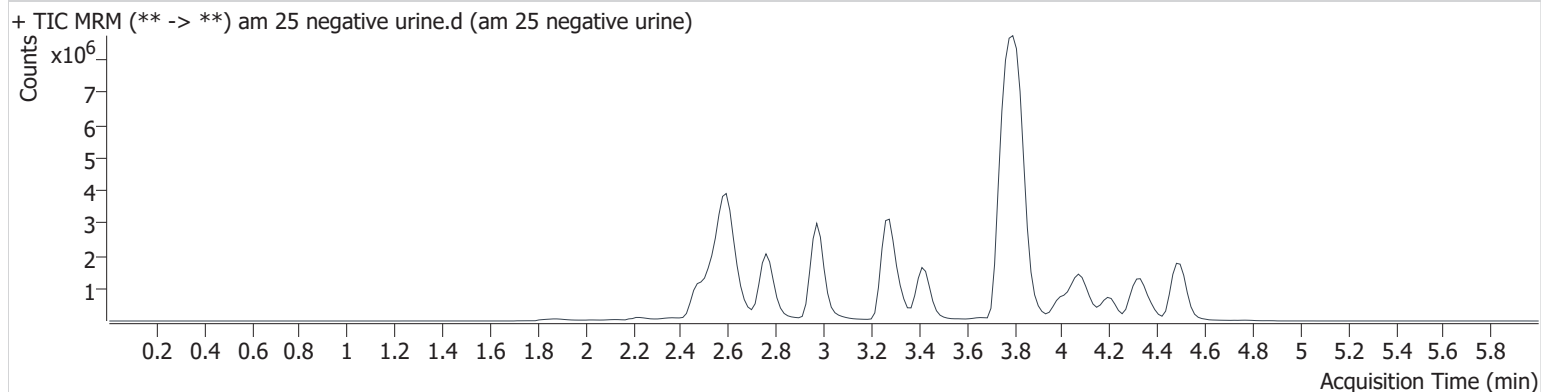
OA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\mds.batch.bin
Calibration Last Update 8/19/2020 4:33:56 PM

Instrument	69679	Data File	am 25 negative urine.d
Type	Sample	Sample	am 25 negative urine
Acq. Method	MDS 5-27-20.m	Operator	Anne Nord
Sample Position	P2-D8	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/18/2020 6:26:13 PM		
Sample Info.			

Sample Chromatogram



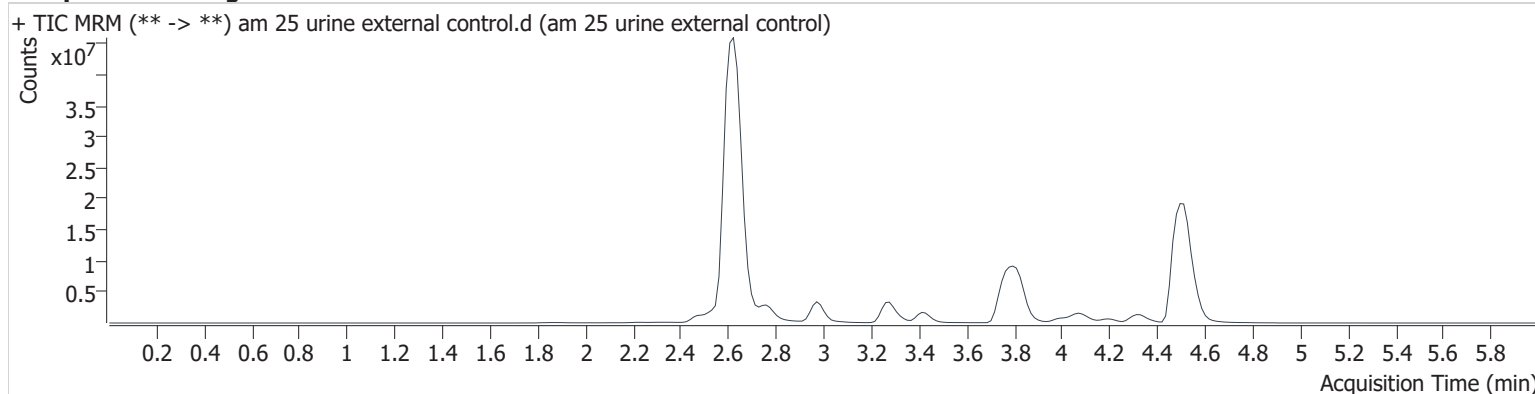
GA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\mds.batch.bin
Calibration Last Update 8/19/2020 4:33:56 PM

Instrument	69679	Data File	am 25 urine external control.d
Type	Sample	Sample	am 25 urine external control
Acq. Method	MDS 5-27-20.m	Operator	Anne Nord
Sample Position	P2-E8	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/18/2020 6:32:55 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.633	78331316	∞	1560.0	10443234	142.509
Midazolam	4.542	11450688	2756.4	3094.8	6769595	1122.665
Temazepam	4.502	58443193	∞	275.9	6769595	470.291

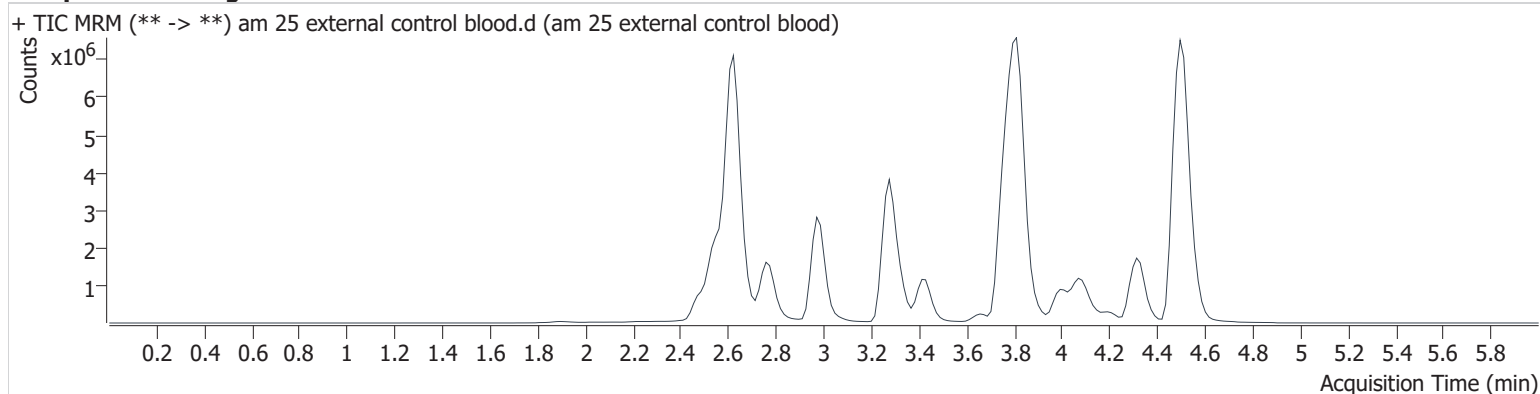
GA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\mds.batch.bin
Calibration Last Update 8/19/2020 4:33:56 PM

Instrument	69679	Data File	am 25 external control blood.d
Type	Sample	Sample	am 25 external control blood
Acq. Method	MDS 5-27-20.m	Operator	Anne Nord
Sample Position	P2-H8	Comment	
Injection Volume	2.5		
Acq. Date-Time	8/18/2020 7:06:13 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.633	10791187	375.5	3276.0	5309086	38.618
Midazolam	4.542	2384658	2739.3	8786.6	10209378	155.027
Temazepam	4.502	17043411	17223.4	440.5	10209378	90.939

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

Extraction Date: 8/18/20 Analyst: Anne Nord

Plate lot#: 200723

Plate Expiration: 1/23/21

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: 20G20792 **Urine Blank:** 73020 **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:

For step 6 of the extraction the SLE well for C2020-1579-1, P2020-2164-1, and P2020-1784-1 plugged. The remaining blood acid mixture ~700 ul for each sample was transferred to a new well and extracted.

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: 9/1/20 lot 21320 by AMN

Drug	lot	expiration
C-THC	FE07171501	9/1/2020
THC-OH	FE07221601	7/1/2021
THC	FE01041701	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
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AM 27/26 urine control 400 ul working solution lot (21320) in 9600 ul urine lot (6920)

out of use

ppd 4/17/20 Exp 9120	lot u101720	Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC	by BAW	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	7/15/2020
ppd 2.5mL 7/17/20 one time use	lot 71720	Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC	by baw	7/17/2020
ppd 7/30/20 exp 9/1/20 (urine lot 73020)	lot u81320	Concentration 30 ng/ml THC, THC-OH and 60 ng/ml C-THC	by amn	

GA

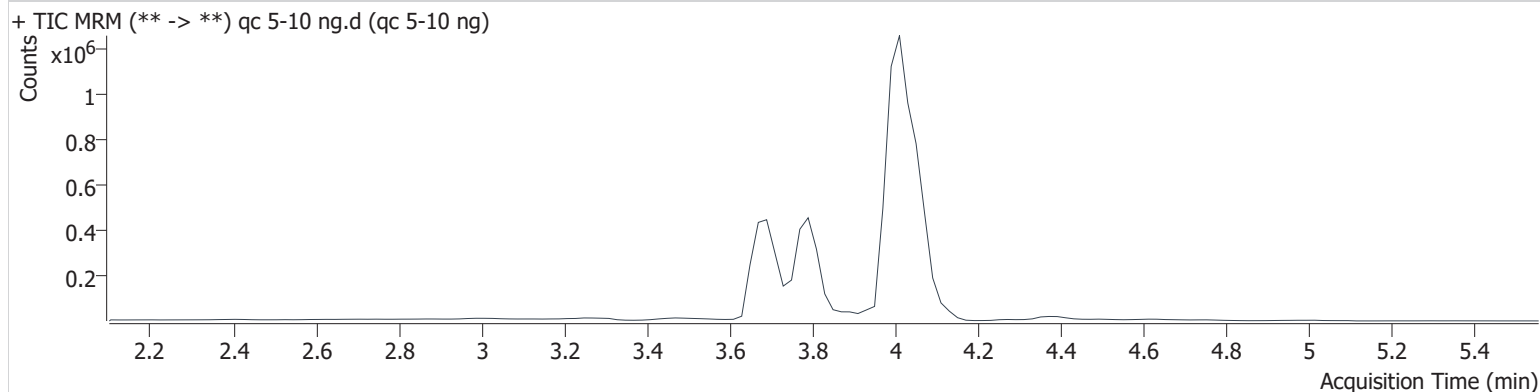
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	qc 5-10 ng.d
Type	QC	Sample	qc 5-10 ng
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-H1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:32:44 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	35373	970331	4.518 ng/ml
THC-COOH	3.792	190719	996519	15.798 ng/ml
THC-OH	3.699	19933	1945408	5.095 ng/ml

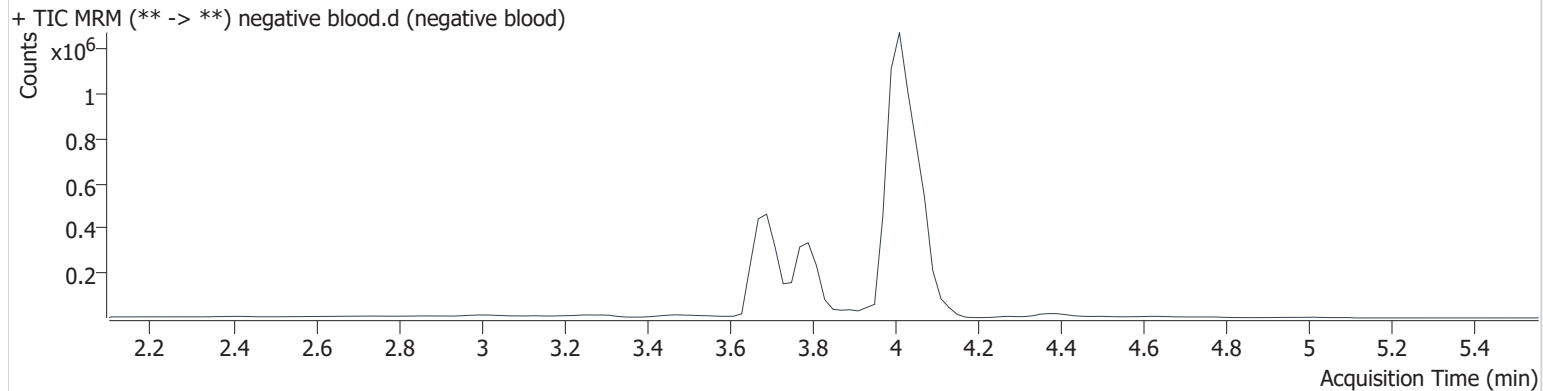
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	negative blood.d
Type	Sample	Sample	negative blood
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A2	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:39:19 PM		
Sample Info.			

Sample Chromatogram



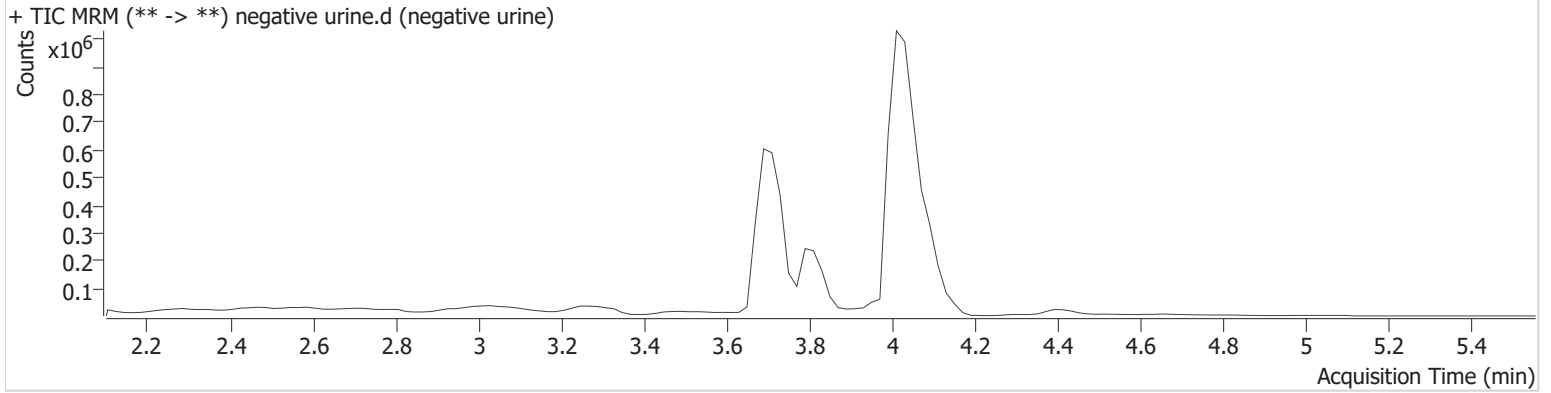
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	negative urine.d
Type	Sample	Sample	negative urine
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-H4	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 10:51:43 PM		
Sample Info.			

Sample Chromatogram



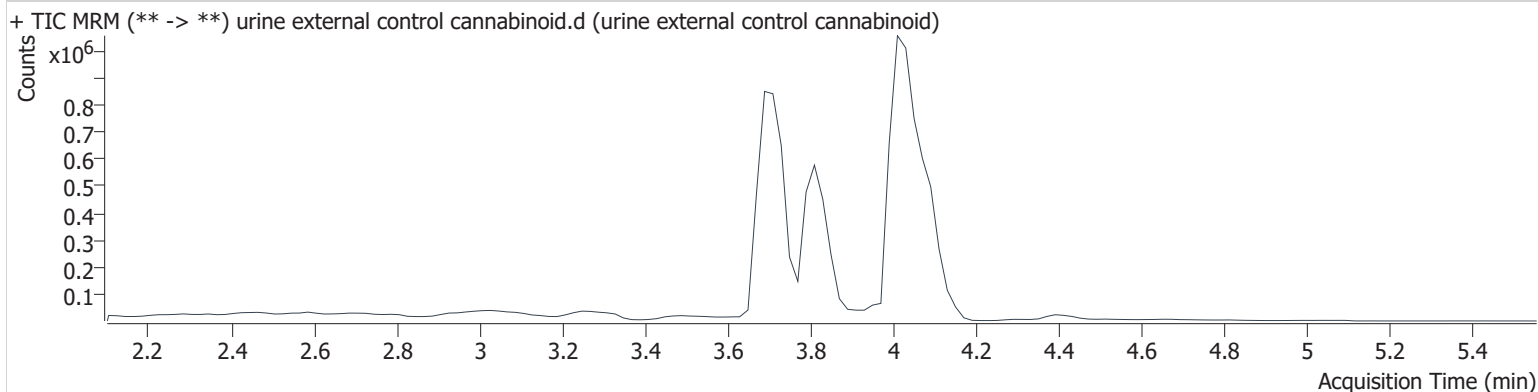
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	urine external control cannabinoid.d
Type	Sample	Sample	urine external control cannabinoid
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A5	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 10:58:21 PM		
Sample Info.			

Sample Chromatogram



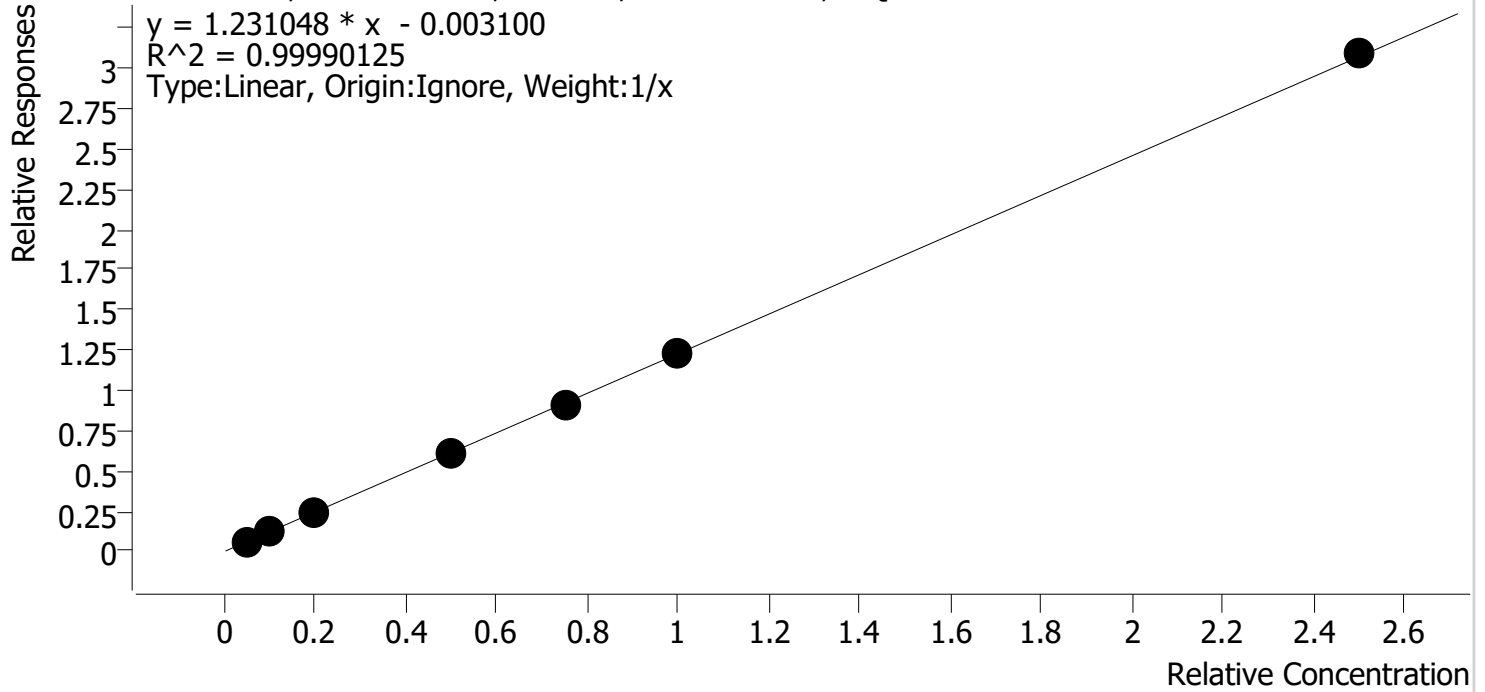
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.104	141585	1103314	15.572 ng/ml
THC-COOH	3.812	471058	965839	39.870 ng/ml
THC-OH	3.719	88596	2955502	14.940 ng/ml

Compound Calibration Report



Batch results	D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin		
Last Cal. Update	8/19/2020 4:41 PM		
Analyst Name	ISP\datastor		
Analyte	THC-COOH	Internal Standard	THC-COOH-d9

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



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
check std 1ng	1	✓	5.0	5.0	99.3
cal 2	2	✓	10.0	10.1	101.5
cal 3	3	✓	20.0	20.3	101.4
cal 4	4	✓	50.0	49.6	99.1
cal 5	5	✓	75.0	73.9	98.6
cal-6	6	✓	100.0	99.5	99.5
cal-7	7	✓	250.0	251.6	100.6

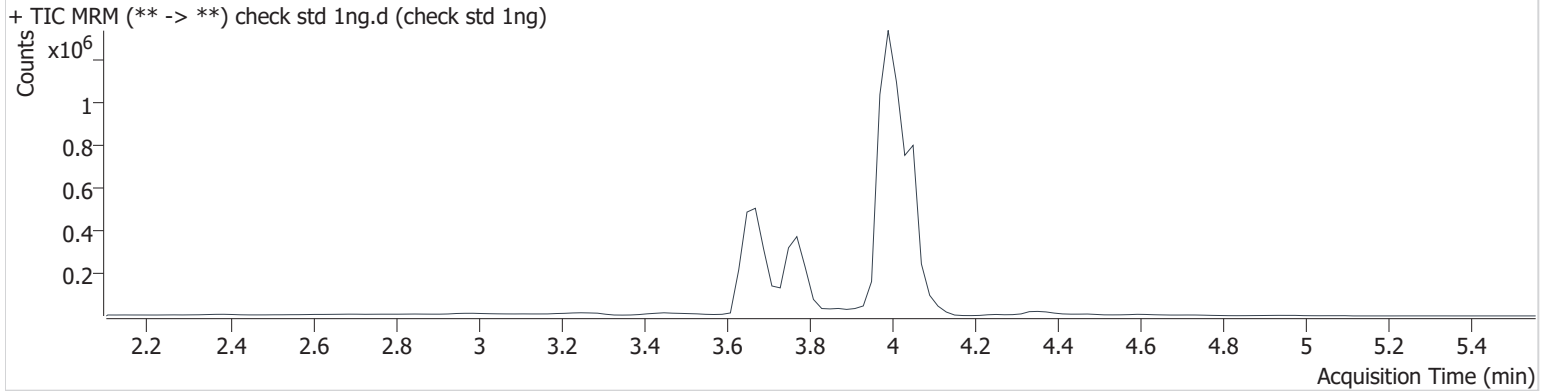
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	check std 1ng.d
Type	Cal	Sample	check std 1ng
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 7:46:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	9930	1305560	1.047 ng/ml Low
THC-COOH	3.772	57384	989259	4.964 ng/ml Low
THC-OH	3.679	4019	2052981	0.958 ng/ml Low

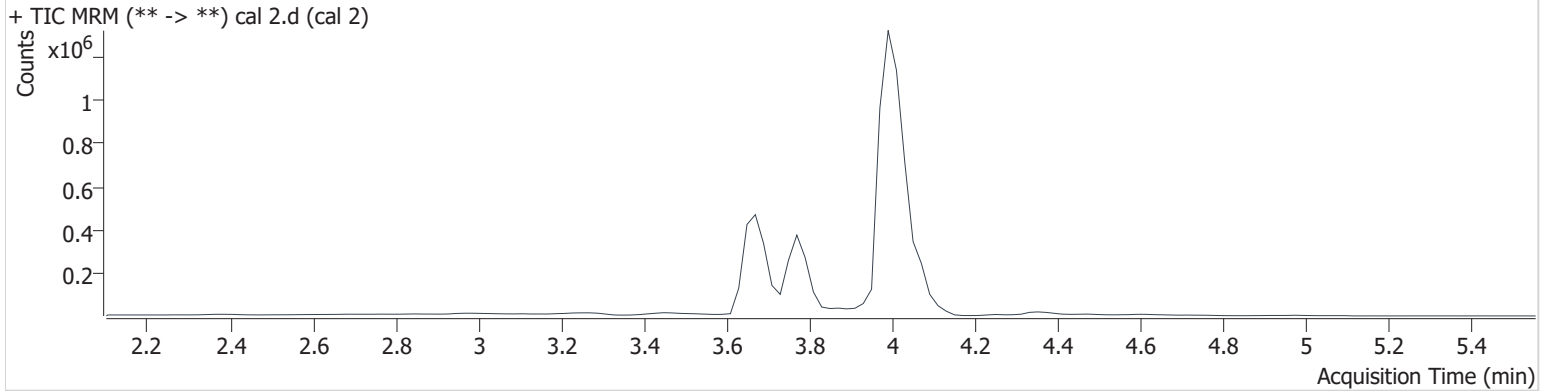
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal 2.d
Type	Cal	Sample	cal 2
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-B1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 7:53:08 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	14707	633099	2.927 ng/ml Low
THC-COOH	3.772	107999	886715	10.146 ng/ml
THC-OH	3.679	12272	1812402	3.360 ng/ml

GA

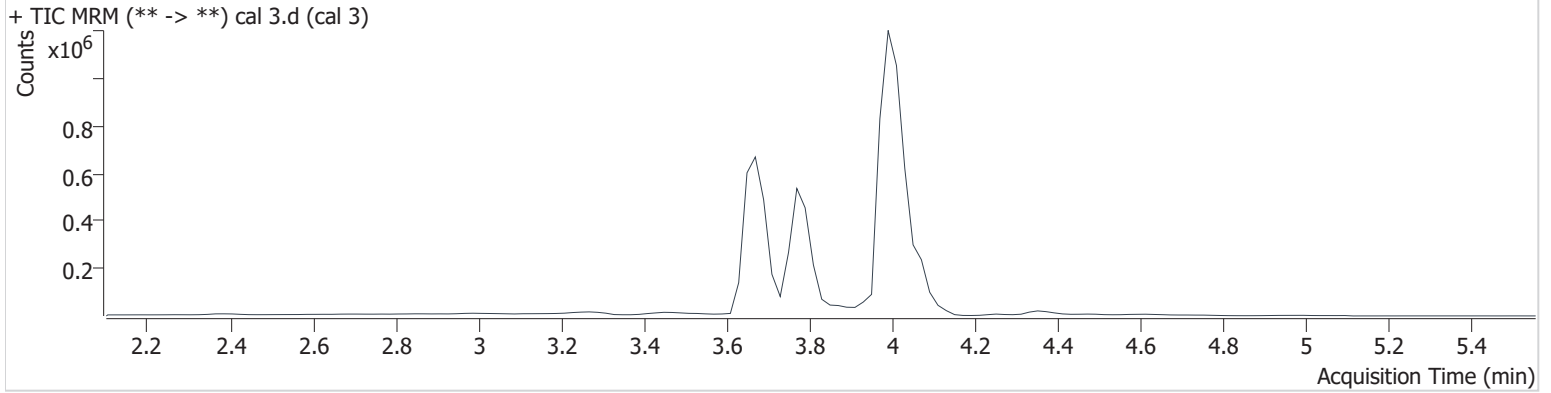
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal 3.d
Type	Cal	Sample	cal 3
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-C1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 7:59:44 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	24474	603141	5.014 ng/ml
THC-COOH	3.772	267076	1083042	20.283 ng/ml
THC-OH	3.679	23330	2379191	4.875 ng/ml

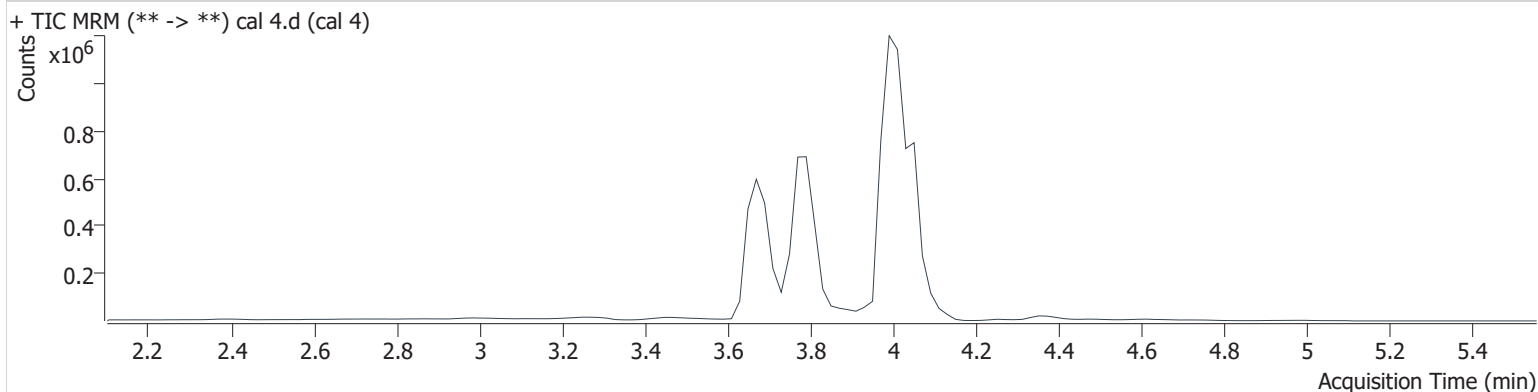
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal 4.d
Type	Cal	Sample	cal 4
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-D1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:06:20 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	77685	976884	9.700 ng/ml
THC-COOH	3.792	591316	974102	49.562 ng/ml
THC-OH	3.679	40306	2091725	9.597 ng/ml

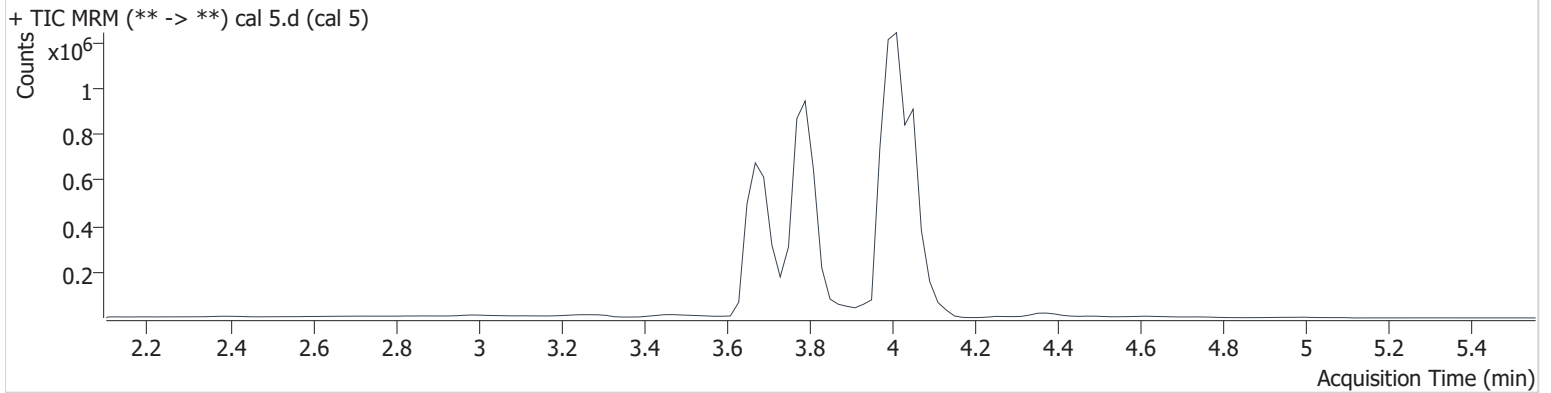
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal 5.d
Type	Cal	Sample	cal 5
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-E1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:12:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	215242	1043733	24.943 ng/ml
THC-COOH	3.792	916760	1010872	73.921 ng/ml
THC-OH	3.679	101348	2084354	24.245 ng/ml

GA

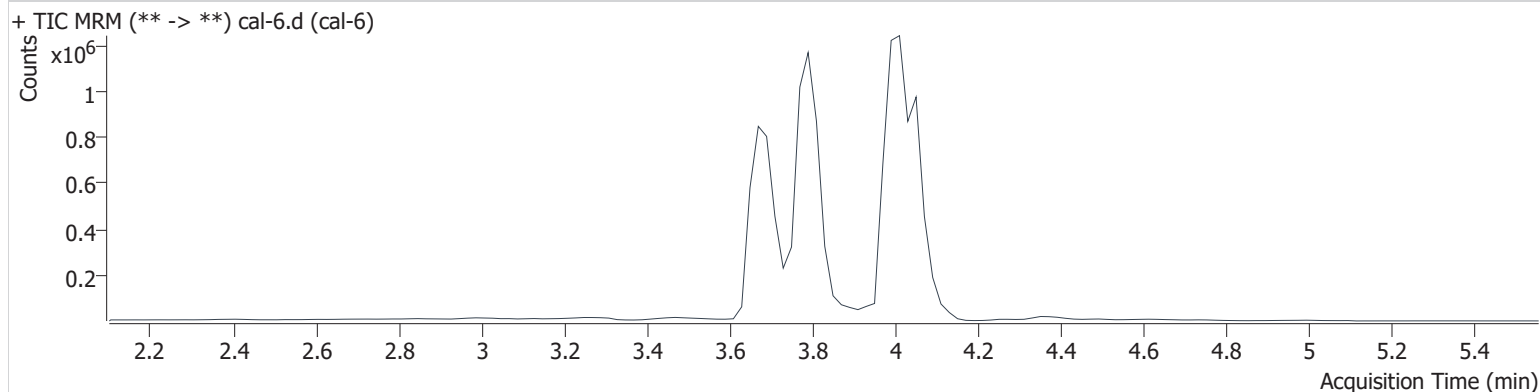
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal-6.d
Type	Cal	Sample	cal-6
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:19:31 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	405403	973133	50.254 ng/ml
THC-COOH	3.792	1235576	1011003	99.527 ng/ml
THC-OH	3.679	201569	1981454	50.745 ng/ml

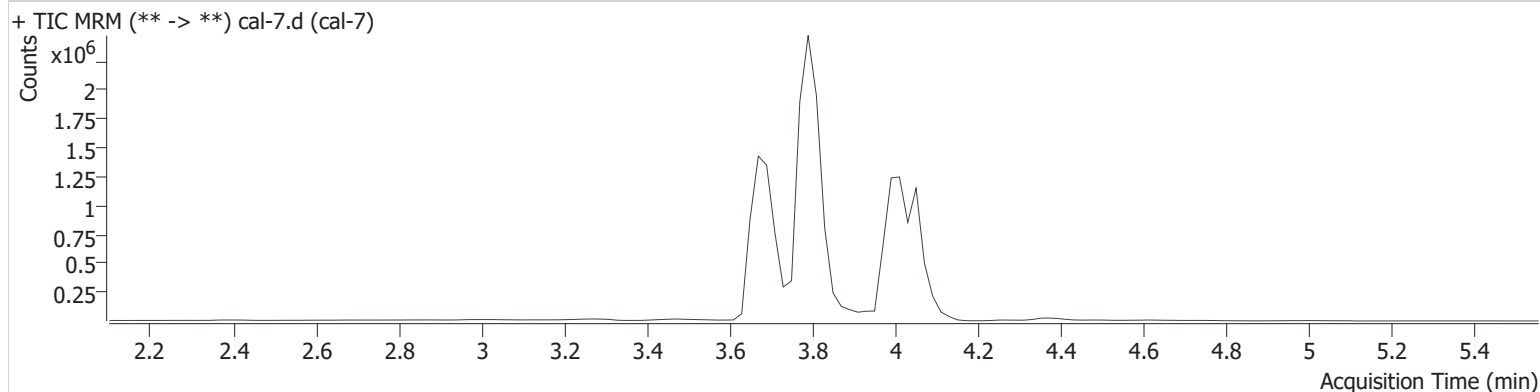
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020 Data\am 25-26 081820\QuantResults\cann.batch.bin
Calibration Last Update 8/19/2020 4:41:37 PM

Instrument	69679	Data File	cal-7.d
Type	Cal	Sample	cal-7
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-G1	Comment	
Injection Volume	5		
Acq. Date-Time	8/18/2020 8:26:08 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	768942	925294	100.114 ng/ml
THC-COOH	3.792	3095490	1000425	251.597 ng/ml
THC-OH	3.679	429528	2138328	100.219 ng/ml