

















Worklist: 4869

REVIEWED
By Britany Wylie at 9:22 am, Apr 02, 2021

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2021-0535	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0537	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0565	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0574	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0577	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0582	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0605	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0614	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0623	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0632	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0634	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0652	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0662	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0668	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-0678	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-0699	4	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: 3/29/21 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: 20J20793 **Blank Urine lot:** 2121 **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. 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: Due to the extraction occurring after the expiration of the analytical plate, an external control was included with this run as specified in the analytical method.

6-Monoacetylmorphine and morphine not evaluated due to two strong samples causing crosstalk in the extraction.

A

	1	2	3	4	5	6	7	8	9	10	11	12
A	Cal 1			negative blood	634-1	574-1						
B	Cal 1			external control blood	652-1	605-1						
C	Cal 2			535-1	662-1	623-1						
D	Cal 2			537-1	678-1	632-1						
E				565-1	699-4	668-1						Cal 2
F				577-1								Cal 2
G				582-1	neg urine							Cal 1
H				614-1	excon urine							Cal 1

lab number format
C2021-0__-__

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

AM 25/28 Blood Control: 50ul working solution (4121) in 4950 ul neg blood (100ng/mL Expected concentration)

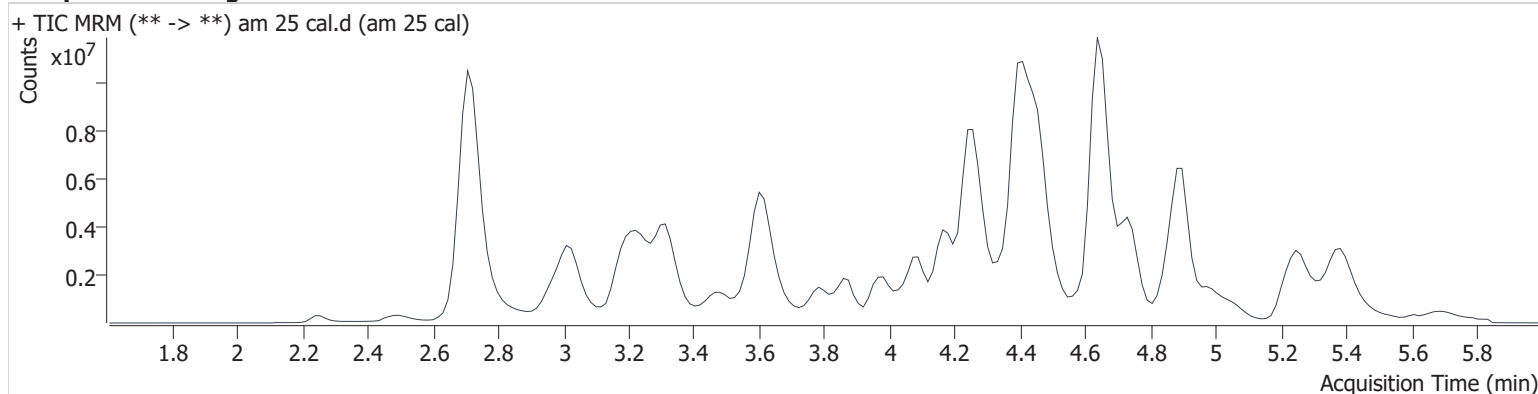
ppp 8/6/20, exp 4/1/21 lot b4121 neg blood 20G20792 by AMN
ppd 3/8/21, exp 9/8/21 lot b9821 neg blood 20J20793 by BAW

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\mds.batch.bin
Calibration Last Update 3/31/2021 4:03:02 PM

Instrument	69679	Data File	am 25 cal.d
Type	Cal	Sample	am 25 cal
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P1-D1	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/29/2021 4:46:54 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
7-aminoclonazepam	3.331	358380	167.3	954.6	1521684	10.000
7-aminoflunitrazepam	3.558	531820	223.7	236.5	1521684	10.000
Acetyl Fentanyl	4.717	260955	64.7	135794.8	15920002	10.000
Acetyl Norfentanyl	3.017	143483	93.0	221.5	15920002	10.000
a-hydroxyalprazolam	4.302	107097	105.0	168.4	1521684	10.000
alpha-hydroxymidazolam	4.409	1405651	333.5	514.2	1521684	10.000
alpha-PHP	4.588	1906190	893.8	315.8	6046942	10.000
alpha-PVP	4.374	2403379	390.2	44.3	6046942	10.000
Alprazolam	4.428	920319	318.3	1232.0	5943273	10.000
Amitriptyline	5.360	732838	253.8	583.5	4050620	10.000
Amphetamine	3.037	2451816	352.8	965.8	6046942	10.000
Benzoylcegonine	3.072	82374	144.2	22.3	165089	10.000
Brompheniramine	4.824	72453	34.3	8.9	38266374	10.000
Buprenorphine	5.259	501743	1001.3	99486.4	2318738	10.000
Bupropion	4.465	2398532	1466.6	1156.9	10058989	10.000
Carbamazepine	3.991	3541921	4074.0	1728.2	54159	10.000
Carisoprodol	3.973	586518	1007.6	142.6	3156673	10.000
Chlordiazepoxide	4.538	425179	286.9	314.6	5943273	10.000
Chlorpheniramine	4.692	4096351	∞	24.6	38266374	10.000
Citalopram	4.732	1922614	1112.1	73.5	38266374	10.000
Clomipramine	5.702	922869	512.7	704.3	38266374	10.000
Clonazepam	4.226	226015	482.0	78.2	5943273	10.000
Clonazolam	4.162	292246	1185.2	213.2	5943273	10.000
Cocaethylene	4.427	2644681	734.5	363.7	38266374	10.000
Cocaine	4.275	3470340	921.0	223.2	19419260	10.000
Codeine	3.862	286976	833.3	961.8	134668	10.000
Cyclobenzaprine	5.240	1938042	2110.3	42.7	4050620	10.000
Desipramine	4.739	161031	168.7	12.5	4050620	10.000
Dextromethorphan	5.286	2128761	109.0	475.2	11180389	10.000
Dextrorphan	4.080	1651093	2425.6	637.8	11180389	10.000
Diazepam	4.676	543428	238.1	766.5	5943273	10.000
Dihydrocodeine	3.510	600252	228.4	439.0	2266203	10.000
Diphenhydramine	4.663	5833813	429.6	361.8	38266374	10.000
Doxepin	5.057	1470061	1213.1	82.3	11848273	10.000



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxylamine	4.171	5506470	10360.1	3536.0	11180389	10.000
EDDP	4.508	1092388	325.2	247.3	2266203	10.000
Estazolam	4.338	1691159	509.8	954.9	5943273	10.000
Etizolam	4.455	80400	274.7	201284.5	5943273	10.000
Fentanyl	4.883	165397	68.0	805.8	9592907	10.000
Flualprazolam	4.285	380833	749.4	194105.6	5943273	10.000
Flunitrazepam	4.366	830190	907.1	509.2	5943273	10.000
Fluoxetine	4.841	665865	∞	188.6	1453179	10.000
Flurazepam	4.835	2188544	3077.5	195316.4	5943273	10.000
Hydrocodone	4.199	932383	38.9	91.3	5752362	10.000
Hydromorphone	3.269	539441	137.1	78.0	134668	10.000
Imipramine	5.388	3984204	1838.3	∞	4050620	10.000
Ketamine	4.251	1856424	1396.8	129.0	11040240	10.000
Lamotrigine	3.409	143786	431.0	6646.1	38266374	10.000
Levamisole	3.871	891587	345.6	81.5	11180389	10.000
Levetireacetam	2.247	373905	1807.9	1276.1	38266374	10.000
Lorazepam	4.210	36792	20558.9	25.6	5943273	10.000
Maprotiline	5.360	483404	150.3	267.9	4050620	10.000
MDA	3.262	1693154	687.4	19.0	15062332	10.000
MDEA	3.627	2615927	3182.8	3016.3	15062332	10.000
MDMA	3.474	2978057	11566.9	588.4	15062332	10.000
Meperidine	4.357	1780465	2466.2	551.3	11180389	10.000
Meprobamate	3.366	143167	246.4	55.3	3156673	10.000
Methadone	4.993	4382971	1507.9	1001.5	2266203	10.000
Methamphetamine	3.248	5560824	1428.8	347.3	15062332	10.000
Methocarbamol	3.273	119487	272.4	108.6	2266203	10.000
Methylphenidate	4.099	5563036	13110.5	555.7	11040240	10.000
Metoprolol	3.758	427989	608.1	1543.5	11180389	10.000
Midazolam	4.624	326923	220698.2	129230.3	5943273	10.000
Mirtazapine	4.740	2076822	3385.4	1016.5	11180389	10.000
Mitragynine	4.895	252506	433574.2	732.2	11180389	10.000
Norbuprenorphine	4.635	49437	50.7	26561.1	2318738	10.000
Nordiazepam	4.509	415475	1049.6	709.3	5943273	10.000
Norfentanyl	3.625	3063712	1969.5	1022.3	15920002	10.000
Norhydrocodone	3.497	35015	∞	6.5	5752362	10.000
norketamine	4.039	333703	192.7	1842.6	11040240	10.000
Normeperidine	4.068	1688525	3340.9	443.6	38266374	10.000
Noroxycodone	3.222	461549	∞	151.9	6381503	10.000
Nortriptyline	5.799	152651	65.2	18.6	4050620	10.000
O-desmethyl-tramadol	3.030	3950433	5401.7	320.9	38266374	10.000
Olanzapine	4.596	469113	980.2	3950.2	54159	10.000
Oxazepam	4.292	226155	36.7	32.3	1390676	10.000
Oxycodone	3.707	1390020	239.1	29.4	6381503	10.000
Oxymorphone	2.497	793241	219.3	265.6	134668	10.000
Paroxetine	5.987	5627	∞	∞	1453179	10.000
Phenazepam	4.454	539094	647145.6	164218.4	5943273	10.000
Phencyclidine	4.481	3174514	4852.3	1762.8	11180389	10.000
Phentermine	3.354	29612	8.0	566.9	11040240	10.000
Phenytoin	3.882	91167	436.9	22.1	54159	10.000
Promethazine	5.222	4202286	992.2	372.2	38266374	10.000
Pseudoephedrine	2.716	45000517	∞	119.2	15062332	10.000
Quetiapine	4.744	2777211	1498.9	7137.1	21828954	10.000
Sertraline	5.611	259249	571.7	125.1	1453179	10.000
Sufentanil	5.064	128196	50573.9	319.7	15920002	10.000
Tapentadol	3.794	2688299	1906.0	1298.2	2266203	10.000
Temazepam	4.476	1137576	340.5	151.6	5943273	10.000
Tramadol	3.880	4198682	5246.3	141.1	38266374	10.000
Trazodone	4.897	2265977	560.9	1276.0	11848273	10.000
Venlafaxine	4.277	3622469	445.0	366.4	1453179	10.000
Zaleplon	4.152	693051	612.1	160.6	21828954	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Zolpidem	4.413	4401837	2336.0	487.3	21828954	10.000
Zopiclone	4.452	257914	501.0	212.8	1333156	10.000

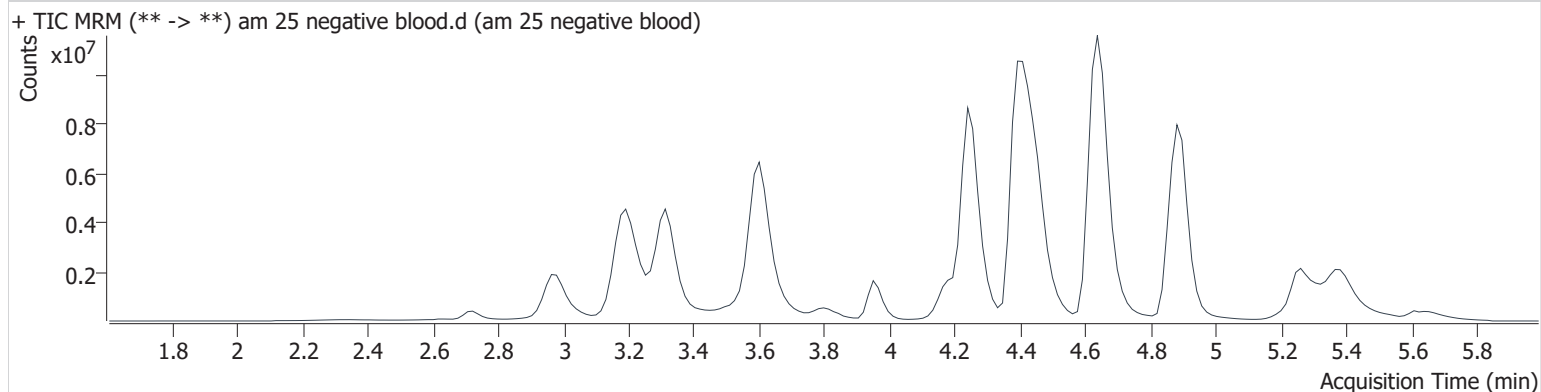
GA

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\mds.batch.bin
Calibration Last Update 3/31/2021 4:03:02 PM

Instrument	69679	Data File	am 25 negative blood.d
Type	Sample	Sample	am 25 negative blood
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P1-A4	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/29/2021 4:53:37 PM		
Sample Info.			

Sample Chromatogram



GA

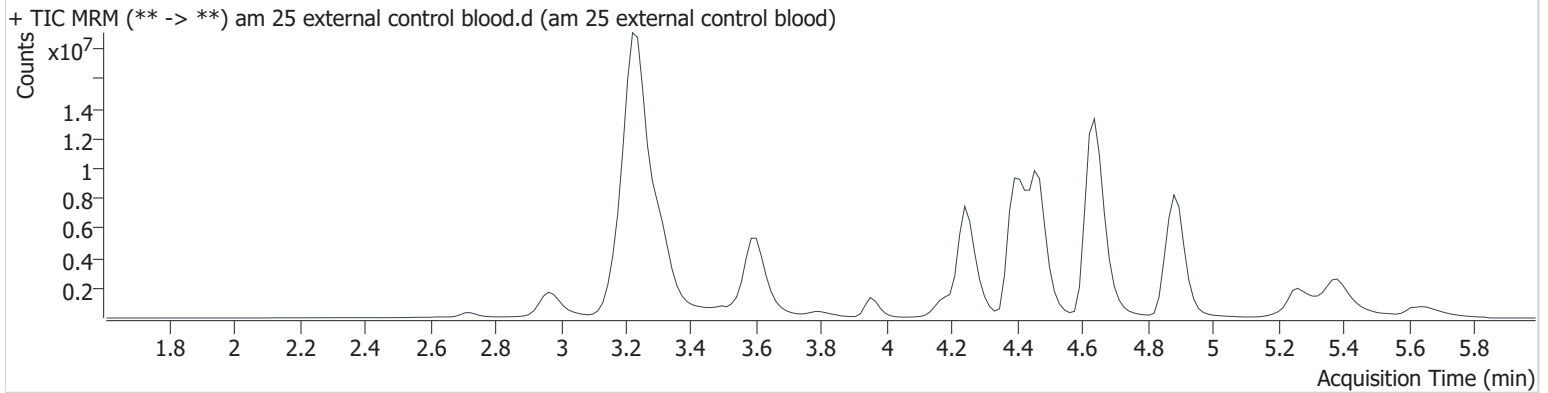
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\mds.batch.bin
Calibration Last Update 3/31/2021 4:03:02 PM

Instrument	69679	Data File	am 25 external control blood.d
Type	Sample	Sample	am 25 external control blood
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P1-B4	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/29/2021 5:00:19 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.248	43018986	9392.2	6982.4	19553669	59.592
Midazolam	4.624	4140503	43502.6	2081.2	7627193	98.689
Temazepam	4.476	13275930	2719.2	762.5	7627193	90.938

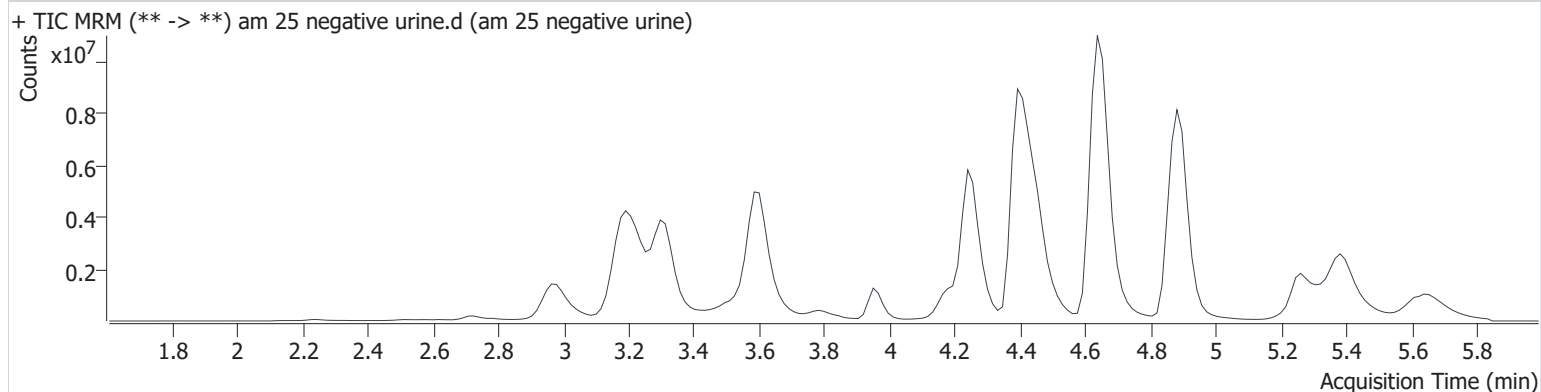
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AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\mds.batch.bin
Calibration Last Update 3/31/2021 4:03:02 PM

Instrument	69679	Data File	am 25 negative urine.d
Type	Sample	Sample	am 25 negative urine
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P1-G5	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/29/2021 6:20:45 PM		
Sample Info.			

Sample Chromatogram



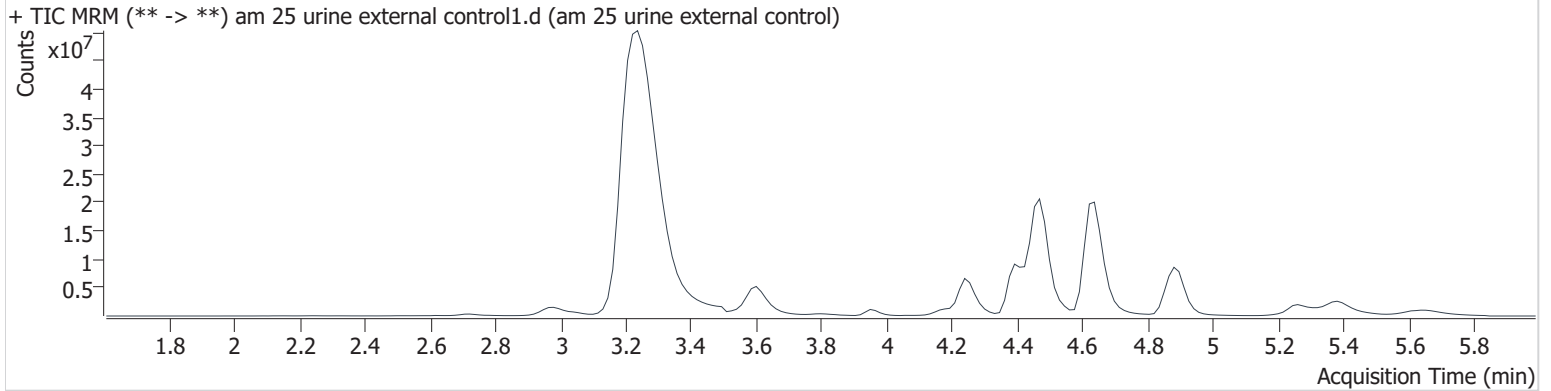
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AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\mds.batch.bin
Calibration Last Update 3/31/2021 4:03:02 PM

Instrument	69679	Data File	am 25 urine external control1.d
Type	Sample	Sample	am 25 urine external control
Acq. Method	mds 826.m	Operator	Anne Nord
Sample Position	P1-H5	Comment	
Injection Volume	2.5		
Acq. Date-Time	3/29/2021 6:27:27 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.248	127637170	6640.5	23027.4	16190331	213.538
Midazolam	4.624	20229176	19563.4	40944.3	5488625	670.031
Temazepam	4.476	47405862	616.2	762.0	5488625	451.246

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

Extraction Date: 3/29/21 Analyst: Anne Nord

Plate lot#: 201206 Plate Expiration: 06/06/2021

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: 20J20793 **Urine Blank:** 2121

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.
- 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:

GA

	1	2	3	4	5	6
a	cal 1 cal 100 ng	neg blood	652-1	623-1		QC 1
b	cal 2 cal 50 ng	535-1	662-1	632-1		cal 100 ng
c	cal 3 cal 25 ng	537-1	678-1	668-1		cal 50 ng
d	cal 4 cal 10ng	565-1	699-4			cal 25 ng
e	cal 5 cal 5 ng	577-1	neg urine			cal 10ng
f	cal 6 cal 3 ng	582-1	excon urine			cal 5 ng
g	cal 7 cal 1ng	614-1	574-1			cal 3 ng
h	QC 1	634-1	605-1			cal 1ng

C2021-0__-__

Toxicology AM method 27/26 external prep information



working solution 15 ug/ml in meoh C-THC, THC-OH, 7.5 ug/ml THC

Stock solution 1mg/ml 7.5 ul each THC, 100 ug/ml 150 ul C-THC, 150 ul THC-OH in 9692.5 ul meOH

Ppd 8/26/20 Exp: 7/1/21 lot 82620 by AMN

Drug	lot	expiration
C-THC	FE01061702	3/1/2022
THC-OH	FE07221601	7/1/2021
THC	FE01041701	3/1/2022

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

		Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	
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AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine

out of use

ppd 8/26/20 Exp 7/1/21 neg urine lot 73020	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	10/4/2020
ppd 10/5/20 Exp 7/1/21 neg urine lot 10120	lot 10520	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	1/12/2021
ppd 1/13/21 Exp 7/1/21 neg urine lot 10120	lot 11321	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	3/28/2021
ppd 3/29/21 Exp 7/1/21 neg urine lot 2121	lot 32921	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

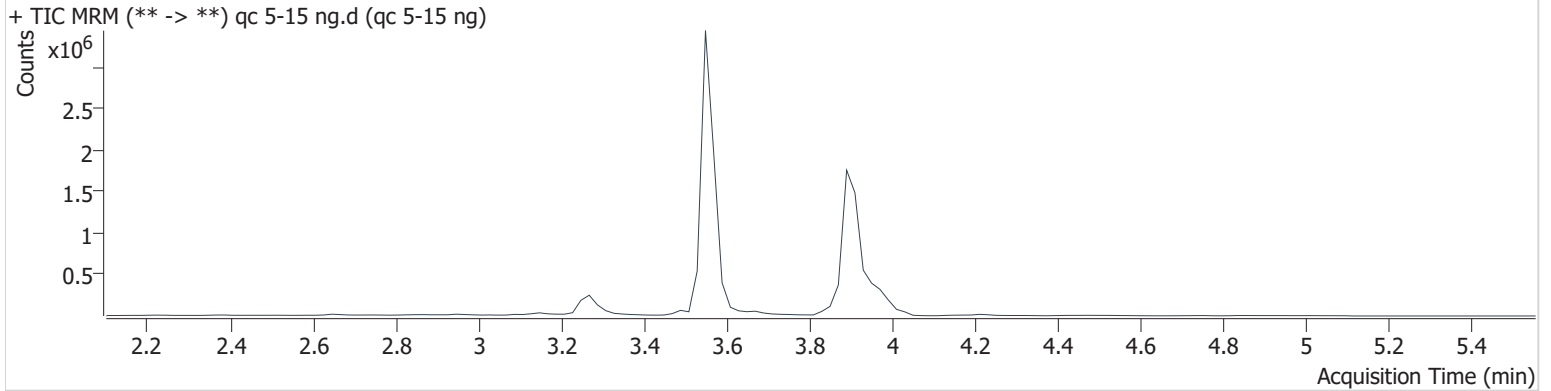
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 PM

Instrument	69679	Data File	qc 5-15 ng.d
Type	QC	Sample	qc 5-15 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	3/29/2021 2:06:51 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	22889	643642	4.052 ng/ml
THC-COOH	3.271	106929	463044	14.970 ng/ml
THC-OH	3.558	45751	7532743	4.142 ng/ml

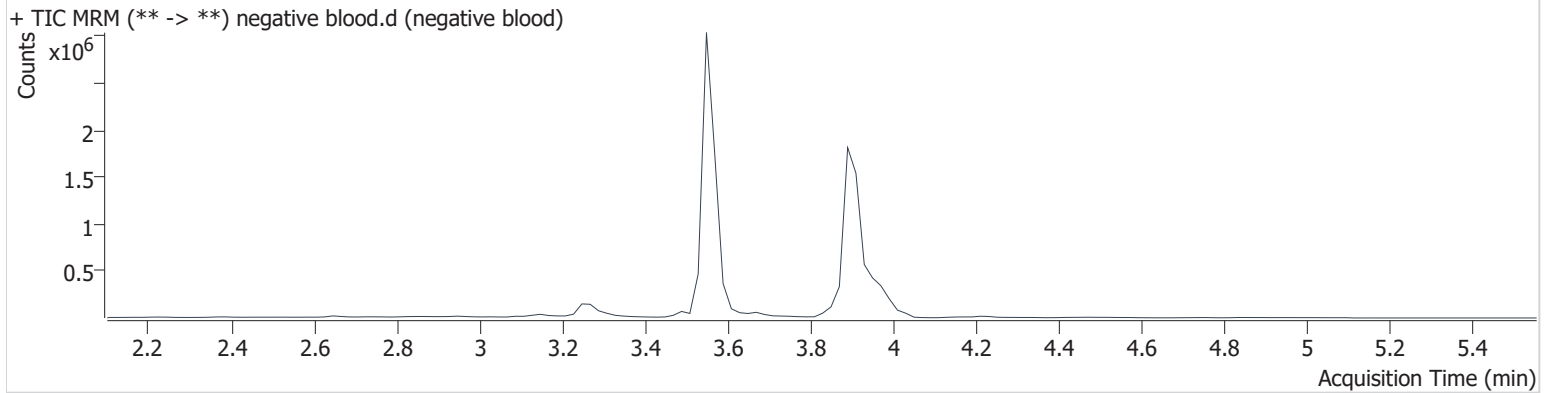
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 2:13:27 PM		
Sample Info.			

Sample Chromatogram



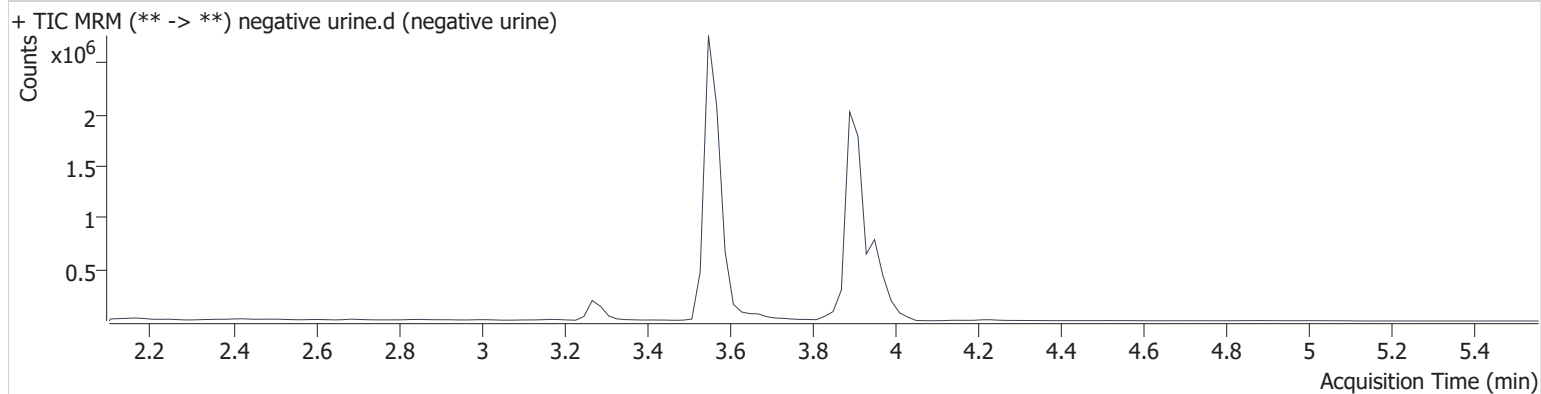
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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-E3	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2021 3:32:38 PM		
Sample Info.			

Sample Chromatogram

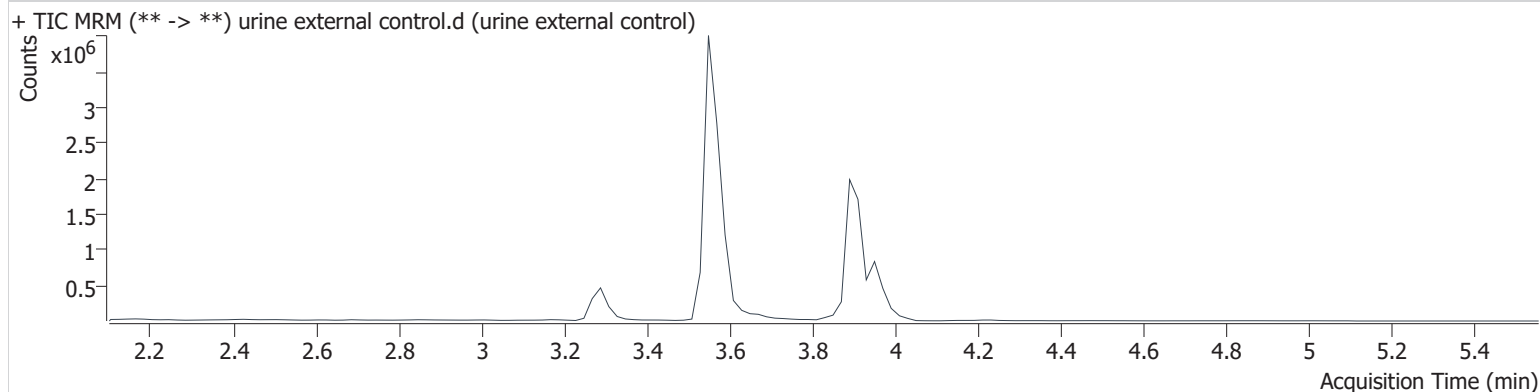


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 PM

Instrument	69679	Data File	urine external control.d
Type	Sample	Sample	urine external control
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-F3	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2021 3:39:14 PM		
Sample Info.			

Sample Chromatogram



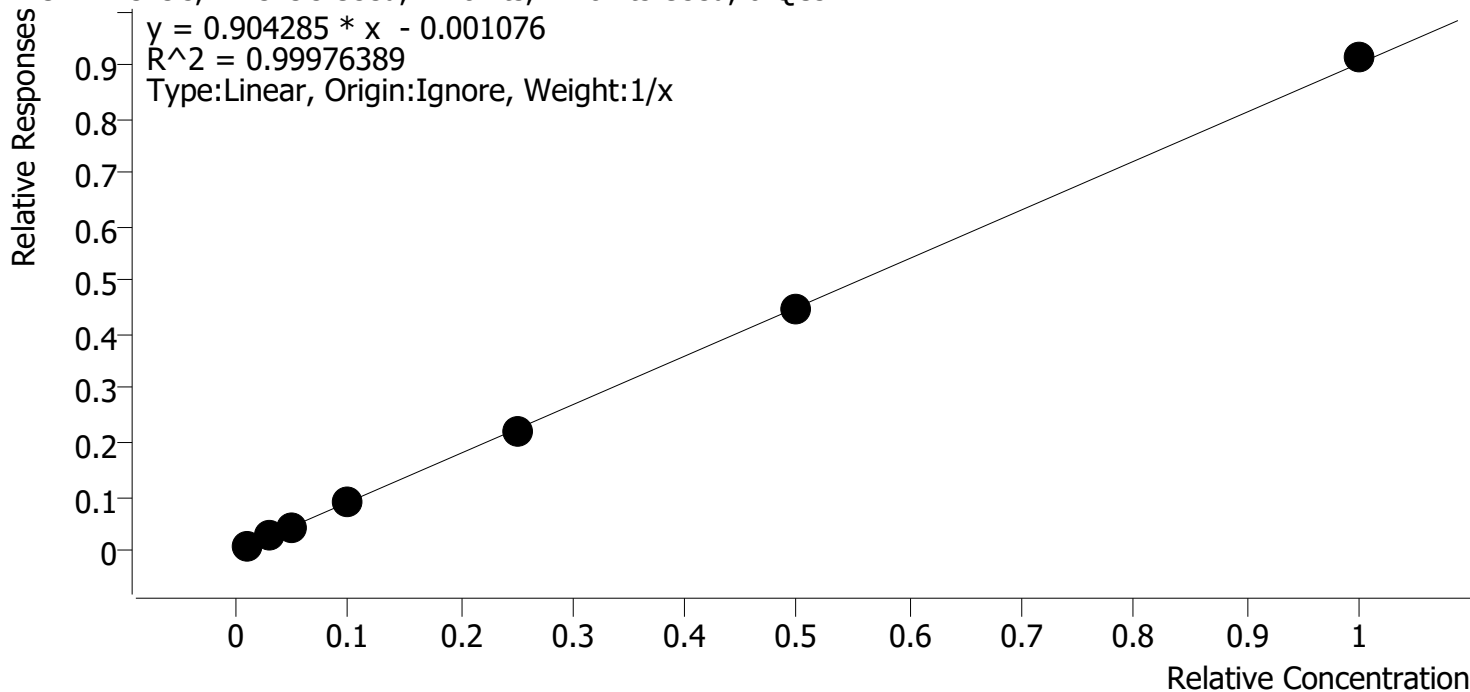
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	218866	1150814	21.150 ng/ml
THC-COOH	3.291	325532	464461	45.313 ng/ml
THC-OH	3.558	568384	6089893	61.856 ng/ml

Compound Calibration Report



Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Last Cal. Update 3/29/2021 4:19 PM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-d3

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



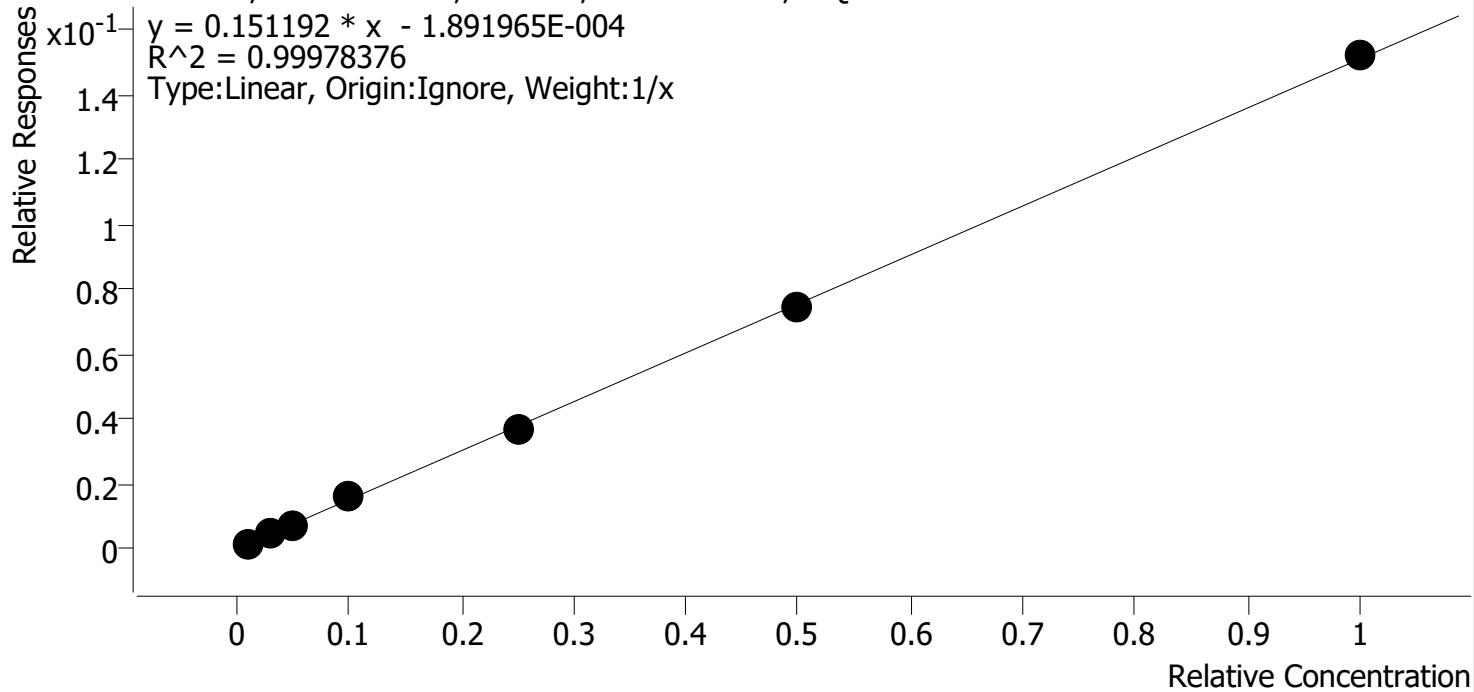
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	107.3
cal 2	2	✓	3.0	2.9	98.2
cal 3	3	✓	5.0	4.9	97.3
cal 4	4	✓	10.0	9.9	98.8
cal 5	5	✓	25.0	24.5	98.2
cal-6	6	✓	50.0	49.5	99.0
cal-7	7	✓	100.0	101.2	101.2

Compound Calibration Report



Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Last Cal. Update 3/29/2021 4:19 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



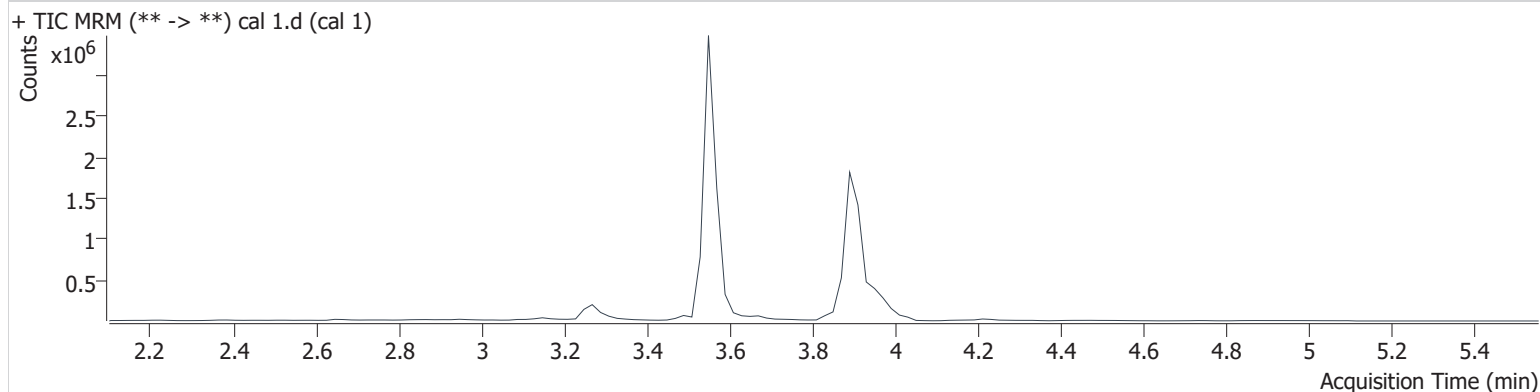
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.0	100.1
cal 2	2	✓	3.0	2.9	97.9
cal 3	3	✓	5.0	5.0	100.7
cal 4	4	✓	10.0	10.4	103.7
cal 5	5	✓	25.0	24.5	97.9
cal-6	6	✓	50.0	49.5	99.0
cal-7	7	✓	100.0	100.7	100.7

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 PM

Instrument	69679	Data File	cal 1.d
Type	Cal	Sample	cal 1
Acq. Method	am 26 cann scr 5-5-20.m	Operator	Anne Nord
Sample Position	P3-A1	Comment	
Injection Volume	5		
Acq. Date-Time	3/29/2021 1:20:41 PM		

Sample Chromatogram



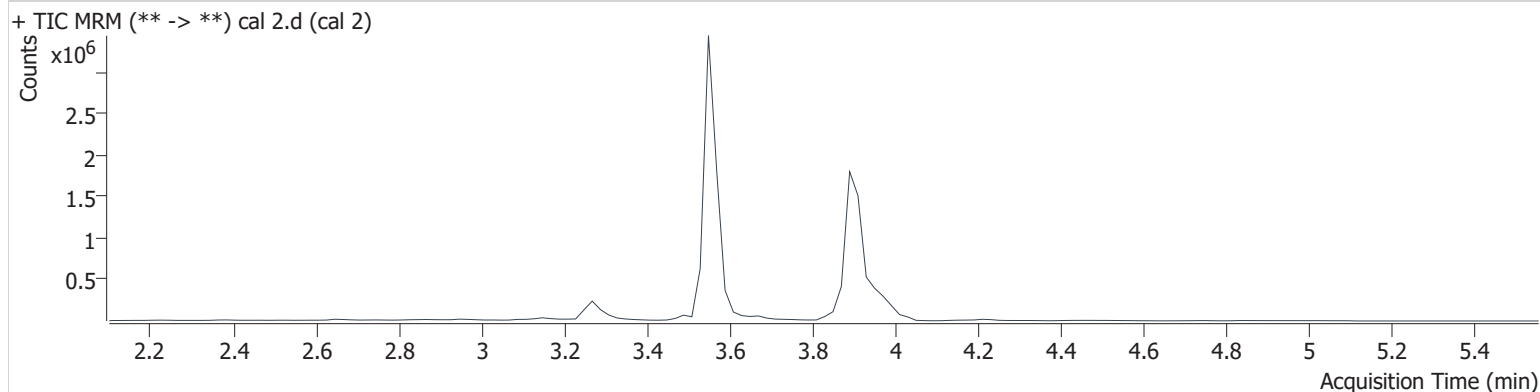
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	5576	646290	1.073 ng/ml Low
THC-COOH	3.271	36823	469552	5.123 ng/ml Low
THC-OH	3.558	10035	7576984	1.001 ng/ml Low

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 1:27:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	16137	630915	2.947 ng/ml Low
THC-COOH	3.271	72192	472156	9.932 ng/ml Low
THC-OH	3.558	32046	7541954	2.936 ng/ml Low

GA

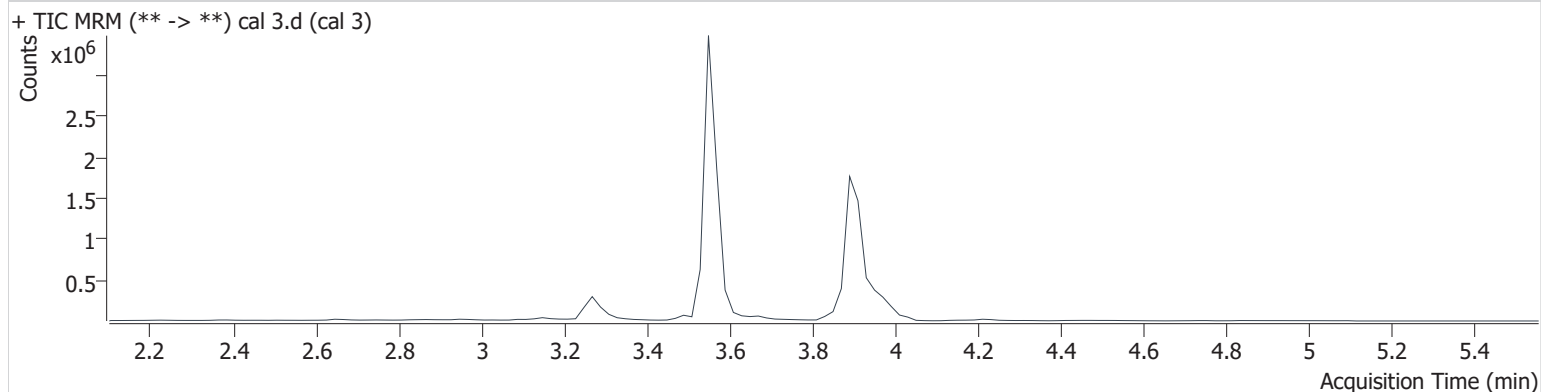
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 1:33:53 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	25241	587931	4.867 ng/ml
THC-COOH	3.271	143190	461783	20.080 ng/ml
THC-OH	3.558	55484	7473416	5.036 ng/ml

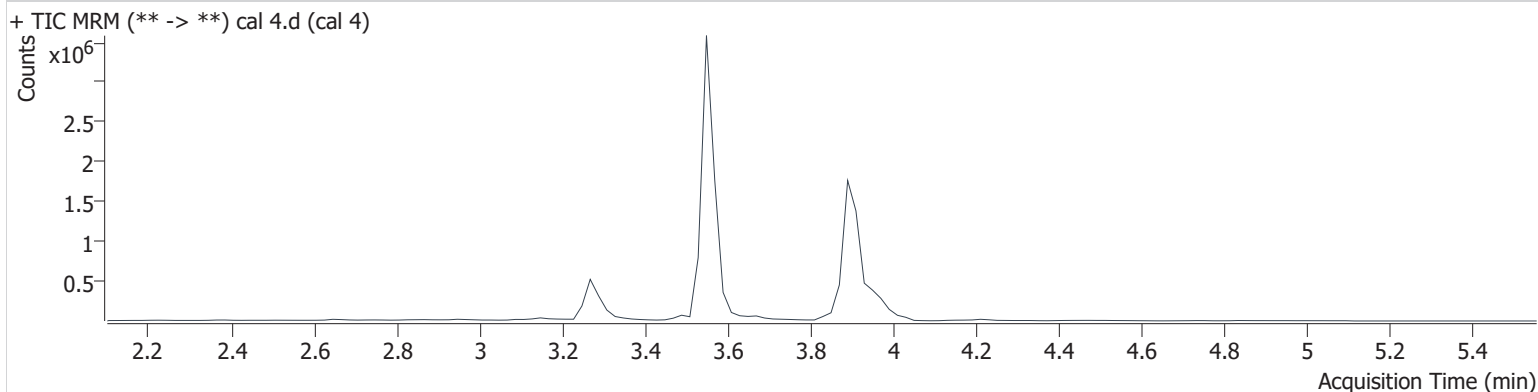
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 1:40:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	52043	589880	9.875 ng/ml
THC-COOH	3.271	362283	476032	49.197 ng/ml
THC-OH	3.558	108539	7005820	10.372 ng/ml

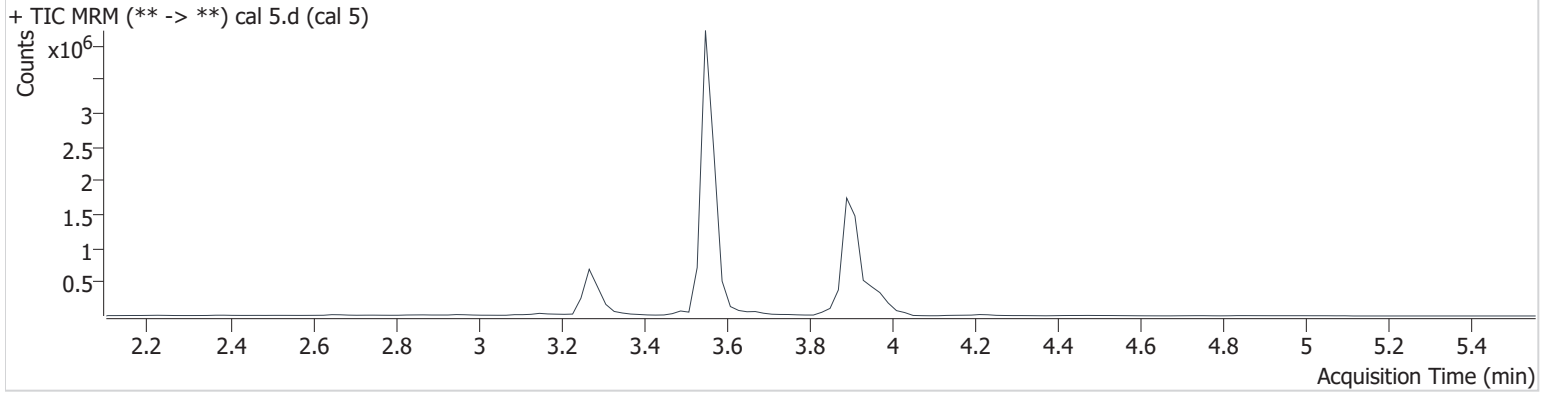
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 1:47:05 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	134063	606918	24.546 ng/ml
THC-COOH	3.271	556988	484878	74.228 ng/ml
THC-OH	3.558	273542	7427911	24.482 ng/ml

GA

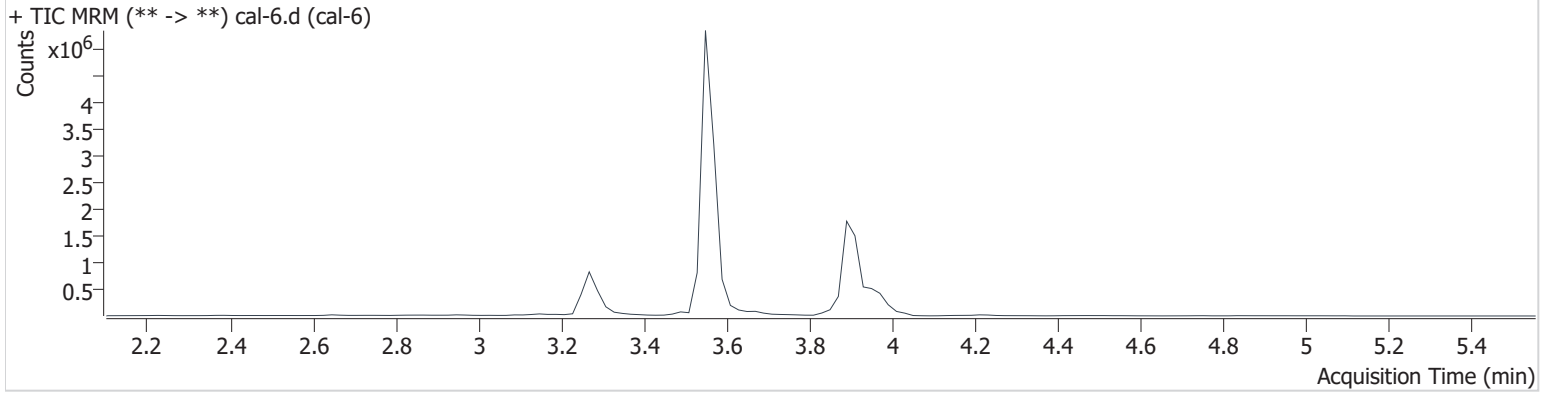
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 1:53:40 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	288877	646980	49.495 ng/ml
THC-COOH	3.271	728803	471764	99.804 ng/ml
THC-OH	3.558	563896	7553809	49.500 ng/ml

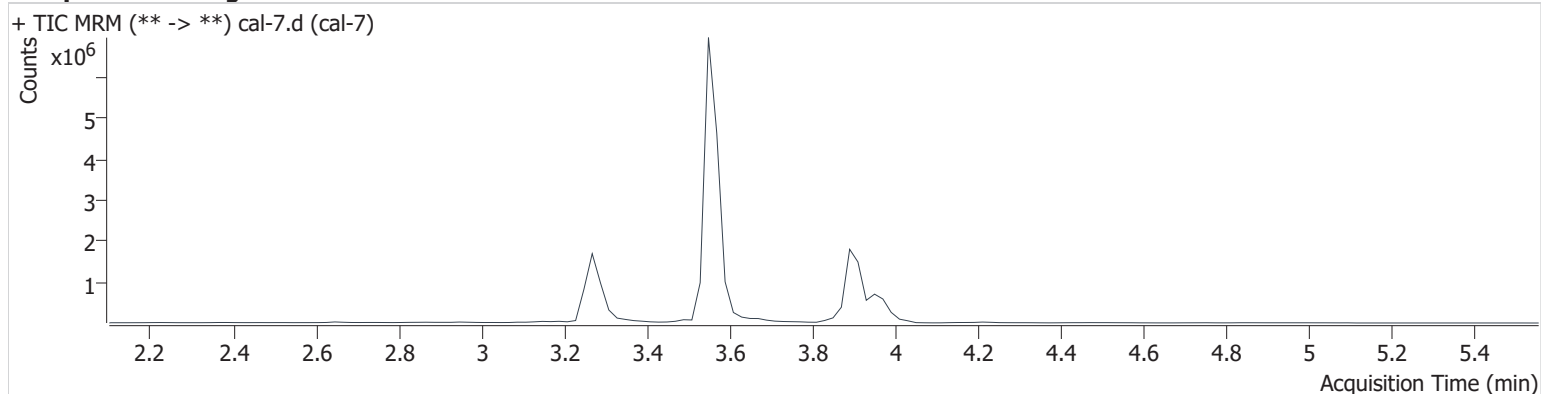
GA

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\032921\QuantResults\cann screen.batch.bin
Calibration Last Update 3/29/2021 4:19:00 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	3/29/2021 2:00:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	629935	689185	101.197 ng/ml
THC-COOH	3.271	1713603	439790	251.636 ng/ml
THC-OH	3.558	1080427	7107125	100.673 ng/ml