6/29/2021

REVIEWED
By Britany Wylie at 8:39 am, Jul 01, 2021

Worklist: 5070

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-1239	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1279	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1288	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1340	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1353	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1354	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1355	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1356	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1363	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1370	~~2~~ 1	~~UCK~~ BCK	AM 25/AM 26 ~~Urine~~ Blood MultiDrug/THC Screen by LC-QQQ
C2021-1377	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1394	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1396	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1435	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1437	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1438	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1439	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1443	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1450	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1455	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1456	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

6/30/21

6/30/21

Worklist: 5070

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-1458	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1495	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-1503	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1504	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-1508	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: 6/28/21 Analyst: Anne Nord
Plate lot#: 201206 Plate retest date: 06/06/21

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: 21D52496 **Blank Urine lot:** 5621 **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.*
Not evaluated: amitriptyline, nortriptyline, maprotiline (due to interference in control) paroxetine (peak not identified in calibrator).

	1	2	3	4	5	6	7	8	9	10	11	12
A				1340-1	1450-1	1396-1	1356-1					
B	cal 1			1363-1	1370-1		1354-1					
C				1377-2	1503-1		1355-1					
D			blood control	1394-1	1504-1		1353-1					
E			negative blood	1435-2	1508-1		1495-1					Cal 2
F			1239-1	1437-1	urine control		1443-1					Cal 2
G			1279-2	1438-1	neg urine		1455-1					Cal 1
H			1288-1	1439-1	1456-1		1458-1					Cal 1

lab number format
C2021-____-_

Toxicology AM method 25/28 urine external control prep

working solution 10000 ng/ml in meoh diphendydramine, methamphetamine, alprazolam, methocarbamol, ~~methylphenidate~~, morphine

11/18/21

Stock solution 1mg/ml 50 ul each in 4750 ul MeOH (Honeywell EA078-US)

ppd 6/25/21: Exp: 6/25/2022 lot 62522 by AMN

Drug	lot	expiration
Methamphetamine	FE03132001	7/1/2025
methocarbamol	FN01212005	1/1/2023
alprazolam	FE06102008	6/1/2025
Diphendydramine	FN02212011	3/1/2025
Morphine	FE03232010	4/1/2025

AM 25/28 control 500 ul working solution (62522) in 4500 ul negative urine (1000ng/mL Expected concentration)

ppd 6/25/21, exp 6/25/22 lot u62522 negative urine 5621 by AMN

AM 25/28 Blood Control: 50ul working solution (41422) in 4950 ul neg blood (100ng/mL Expected concentration)

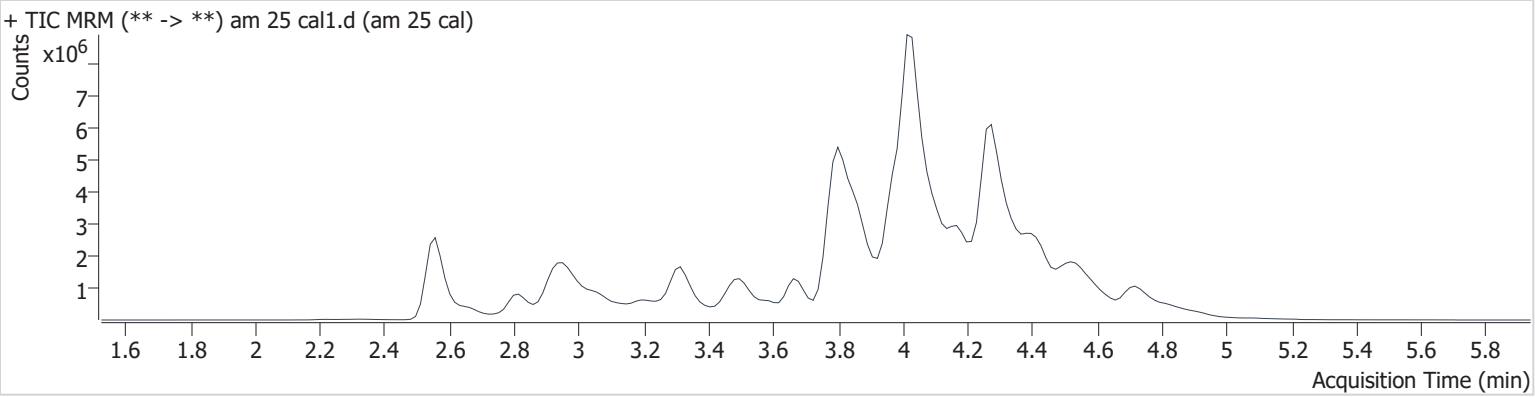
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\mds.batch.bin
Calibration Last Update 6/30/2021 12:49:59 PM

Instrument	69679	**Data File**	am 25 cal1.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	mds 628.m	**Operator**	Anne Nord
Sample Position	P2-B1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	6/28/2021 3:16:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.266	2007	∞	278.6	84910	10.000
7-aminoclonazepam	3.301	93745	188689.4	25578.7	370130	10.000
7-aminoflunitrazepam	3.528	411137	418199.2	165.8	370130	10.000
Acetyl Fentanyl	4.031	166850	202.6	54909.0	3924219	10.000
Acetyl Norfentanyl	2.805	35193	888.2	13.9	3924219	10.000
a-hydroxyalprazolam	4.275	12001	55214.5	∞	370130	10.000
alpha-hydroxymidazolam	4.382	120058	39.3	34.2	370130	10.000
alpha-PHP	3.993	1787803	904699.5	164606.8	406238	10.000
alpha-PVP	3.888	2235717	2150.0	677.8	406238	10.000
Alprazolam	4.401	591754	289.9	117.7	362347	10.000
Amphetamine	2.810	151783	113.2	149.8	406238	10.000
Benzoylecgonine	3.042	73890	∞	161.2	135900	10.000
Brompheniramine	4.108	52163	339.9	49.6	34178906	10.000
Buprenorphine	4.806	26631	11313.9	118.9	129595	10.000
Bupropion	3.994	1849199	2785581.4	1602.2	7767930	10.000
Carbamazepine	3.964	168931	189.0	138.3	6441	10.000
Carisoprodol	3.945	18307	153.4	12.0	118032	10.000
Chlordiazepoxide	4.510	51782	10335.3	39.9	362347	10.000
Chlorpheniramine	4.020	3360978	3324.2	69912.4	34178906	10.000
Citalopram	4.107	711823	4369.3	937.2	34178906	10.000
Clomimpramine	4.828	419034	322.6	∞	34178906	10.000
Clonazepam	4.200	10429	1025.6	493.1	362347	10.000
Clonazolam	4.135	48227	16099.4	4986.2	362347	10.000
Cocaethylene	3.940	2351076	767699.2	417478.5	34178906	10.000
Cocaine	3.817	2749943	1330.2	4555.9	16308445	10.000
Codeine	3.132	22767	908.8	4290.0	12481	10.000
Cyclobenzaprine	4.467	1008431	223.2	86.7	2325737	10.000
Desipramine	4.452	398086	36771.0	419.5	2325737	10.000
Dextromethorphan	4.175	1135241	194367.3	286550.1	5820902	10.000
Dextrorphan	3.607	980035	286.5	248868.9	5820902	10.000
Diazepam	4.634	47356	247.3	128.9	362347	10.000
Dihydrocodeine	2.888	140393	172.2	111.3	2307927	10.000
Diphenhydramine	4.038	4392207	879.5	227.6	34178906	10.000
Doxepin	4.266	573576	217.4	66.5	4788842	10.000

AM #25 Multi-Drug Screen Results

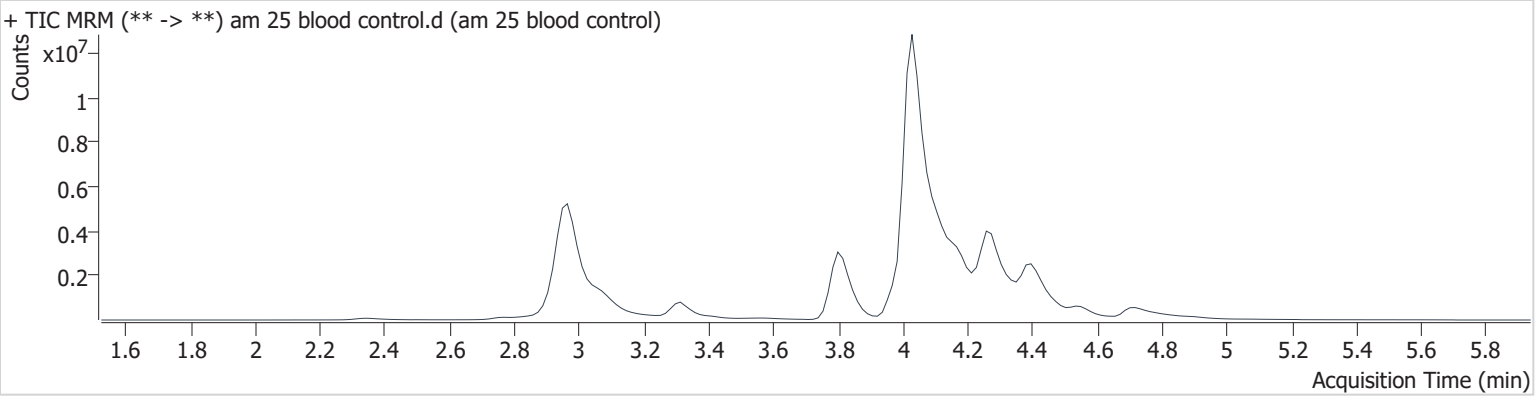
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxylamine	3.790	5419597	5503.2	167.8	5820902	10.000
EDDP	4.082	1076419	306592.5	608287.2	2307927	10.000
Estazolam	4.295	110849	54.9	9253.3	362347	10.000
Etizolam	4.427	40932	11737.3	273.1	362347	10.000
Fentanyl	4.259	126656	35302.1	22765.1	8753850	10.000
Flualprazolam	4.259	321802	116396.3	198890.0	362347	10.000
Flunitrazepam	4.338	31519	80.3	9640.5	362347	10.000
Fluoxetine	4.324	61771	15698.4	902.6	50817	10.000
Flurazepam	4.303	1530402	203.5	157.3	362347	10.000
Hydrocodone	3.603	92489	21.5	30.4	699384	10.000
Hydromorphone	2.681	36400	25.7	85.4	12481	10.000
Imipramine	4.511	1905356	451782.7	161.9	2325737	10.000
Ketamine	3.994	1107467	706.9	172.4	780420	10.000
Lamotrigine	3.396	32396	202.7	5566.0	34178906	10.000
Levamisole	3.277	1431205	163.1	254.9	5820902	10.000
Levetireacetam	2.218	28294	236.7	118.2	34178906	10.000
Lorazepam	4.199	2321	5.8	4.7 **Low**	362347	10.000
MDA	3.004	78832	125.2	26.3	5491487	10.000
MDEA	3.322	1320489	2510.0	384.7	5491487	10.000
MDMA	3.156	718257	313717.9	83.8	5491487	10.000
Meperidine	3.901	1126068	485.8	1305.8	5820902	10.000
Meprobamate	3.337	8038	3146.5	3.0 **Low**	118032	10.000
Methadone	4.416	3410603	13225.1	343.0	2307927	10.000
Methamphetamine	2.976	2784801	∞	∞	5491487	10.000
Methocarbamol	3.244	8424	∞	3.4 **Low**	2307927	10.000
Methylphenidate	3.672	4499121	900.6	781.8	780420	10.000
Metoprolol	3.486	96525	182.1	79.8	5820902	10.000
Midazolam	4.582	150535	24600.6	39059.6	362347	10.000
Mirtazapine	4.206	892119	330.7	219.1	5820902	10.000
Mitragynine	4.333	214847	120777.4	190.2	5820902	10.000
Morphine	2.351	12002	∞	340.3	12481	10.000
Norbuprenorphine	3.981	1227	871.0	542.5	12481	10.000
Nordiazepam	4.468	7930	4077.3	793.4	362347	10.000
Norfentanyl	3.336	764960	192.1	91.7	3924219	10.000
Norhydrocodone	3.073	3542	1468.3	637.7	699384	10.000
norketamine	3.919	12759	25.1	15164.2	780420	10.000
Normeperidine	3.703	110001	15.6	84.6	34178906	10.000
Noroxycodone	2.904	39181	74.7	28.0	2047844	10.000
O-desmethyl-tramadol	2.819	2519669	629.5	326.8	34178906	10.000
Olanzapine	4.367	268119	∞	3.2 **Low**	6441	10.000
Oxazepam	4.265	11101	12.0	3.0 **Low**	45698	10.000
Oxycodone	3.039	402090	127.0	507.7	2047844	10.000
Oxymorphone	2.287	56178	13.4	25.2	12481	10.000
Phenazepam	4.412	12984	4236.0	2364.4	362347	10.000
Phencyclidine	3.978	2862896	965167.2	259.3	5820902	10.000
Phentermine	3.097	2194	9.6	∞	780420	10.000
Phenytoin	3.854	8986	2573.4	1562.7	6441	10.000
Promethazine	4.511	2593033	541.0	127497.6	34178906	10.000
Pseudoephedrine	2.565	10694178	∞	1060.2	5491487	10.000
Quetiapine	4.533	1077923	209.3	89309.1	20439609	10.000
Sertraline	4.663	12963	19.5	∞	50817	10.000
Sufentanil	4.609	130861	26154.9	1210.9	3924219	10.000
Tapentadol	3.475	1995919	241.3	504.0	2307927	10.000
Temazepam	4.433	57346	16425.5	4.0 **Low**	362347	10.000
Tramadol	3.501	3922357	409.4	50.4	34178906	10.000
Trazodone	4.748	905002	240.1	1103.8	4788842	10.000
Venlafaxine	3.865	3013503	675.8	168.0	50817	10.000
Zaleplon	4.126	27873	11.9	17.3	20439609	10.000
Zolpidem	4.278	4692608	710.1	508.3	20439609	10.000
Zopiclone	4.318	12932	7.9	∞	68553	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\mds.batch.bin
Calibration Last Update 6/30/2021 12:49:59 PM

Instrument	69679	**Data File**	am 25 blood control.d
Type	Sample	**Sample**	am 25 blood control
Acq. Method	mds 628.m	**Operator**	Anne Nord
Sample Position	P2-D3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	6/28/2021 3:22:43 PM		
Sample Info.			

Sample Chromatogram



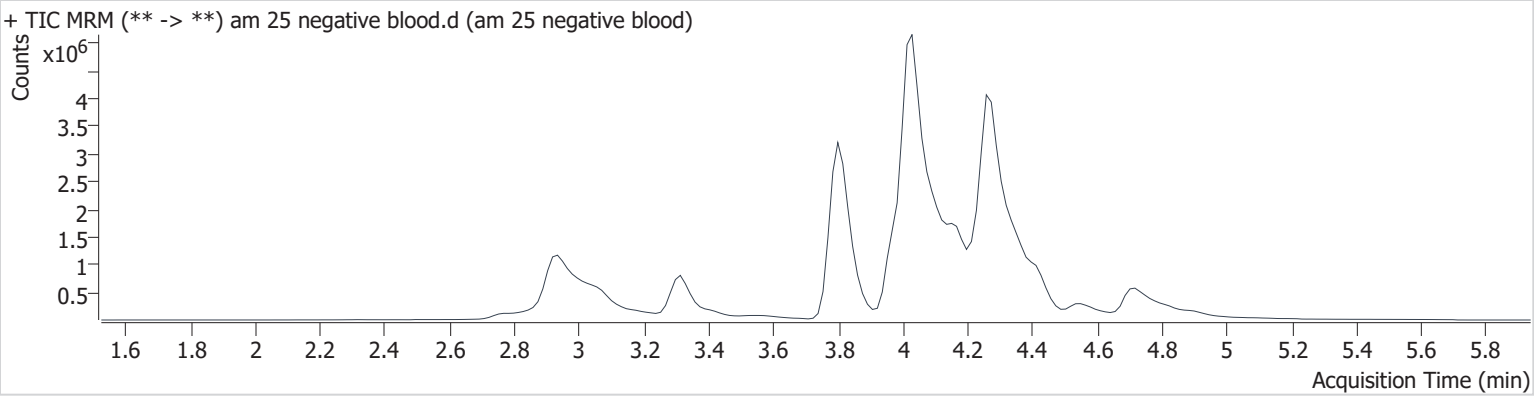
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.401	4799868	11545.5	417.4	290093	101.316
Diphenhydramine	4.038	36848253	1116.1	707.6	27743633	103.354
Methamphetamine	2.976	11813535		∞	4721905	49.335
Methocarbamol	3.244	75072	53120.3	1168.0	1936187	106.233
Morphine	2.351	136534	41346.6	797.8	11180	127.000

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\mds.batch.bin
Calibration Last Update	6/30/2021 12:49:59 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds 628.m	**Operator**	Anne Nord
Sample Position	P2-E3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	6/28/2021 3:29:26 PM		
Sample Info.			

Sample Chromatogram

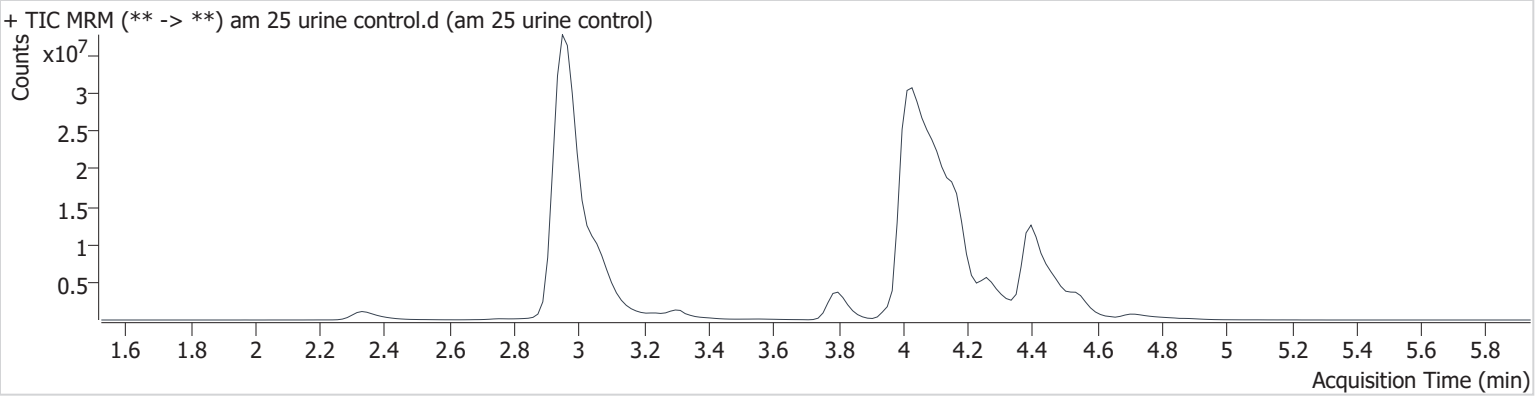


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\mds.batch.bin
Calibration Last Update 6/30/2021 12:49:59 PM

Instrument	69679	**Data File**	am 25 urine control.d
Type	Sample	**Sample**	am 25 urine control
Acq. Method	mds 628.m	**Operator**	Anne Nord
Sample Position	P2-F5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	6/28/2021 5:23:16 PM		
Sample Info.			

Sample Chromatogram



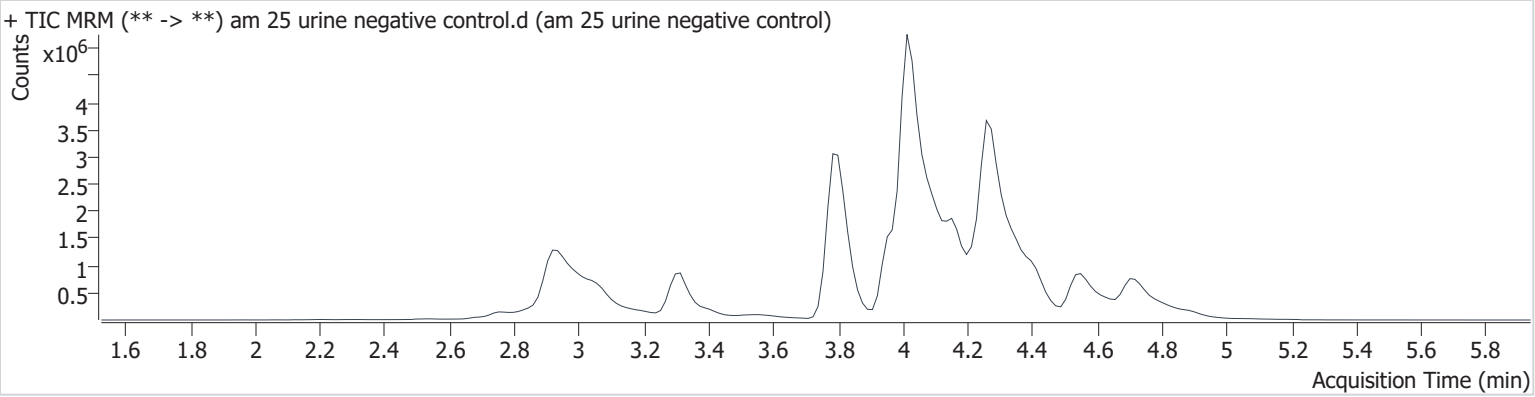
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.401	39987289	∞	9052768.8	331055	739.614
Diphenhydramine	4.038	177498108	95982.7	81811.0	28755005	480.348
Methamphetamine	2.976	90667316		∞	5888255	303.641
Methocarbamol	3.244	878758	415.3	1189.3	2334055	1031.540
Morphine	2.336	2142178	14017.8	356.1	18965	1174.618

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\mds.batch.bin
Calibration Last Update 6/30/2021 12:49:59 PM

Instrument	69679	**Data File**	am 25 urine negative control.d
Type	Sample	**Sample**	am 25 urine negative control
Acq. Method	mds 628.m	**Operator**	Anne Nord
Sample Position	P2-G5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	6/28/2021 5:29:57 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Norbuprenorphine	3.981	489	443.3	34.6	17238	2.883

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

Extraction Date: 6/28/21 Analyst: Anne Nord

Plate lot#: 210412 Plate Expiration: 10/12/21

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: 21D52496 **Urine Blank:** 5621
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 8**00 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:

	1	2	3	4	5	6
a	cal 1	neg blood	1435-1	1508-1	1443-1	QC 1
b	cal 2	1239-1	1437-1	neg urine	1455-1	cal 100 ng
c	cal 3	1279-2	1438-1	urine control	1456-1	cal 50 ng
d	cal 4	1288-1	1439-1	1353-1	1458-1	cal 25 ng
e	Cal 5	1340-1	1450-1	1354-1	1495-1	cal 10ng
f	cal 6	1363-1	1370-1	1355-1	1019-1	cal 5 ng
g	cal 7	1377-2	1503-1	1356-1		cal 3 ng
h	Internal control	1394-1	1504-1	1396-1		cal 1ng

C2021-____-_

Toxicology AM method 27/26 external prep informati

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	

AM 27/26 urine control 400 ul working solution lot (82620) in 9600 ul urine **out of use**

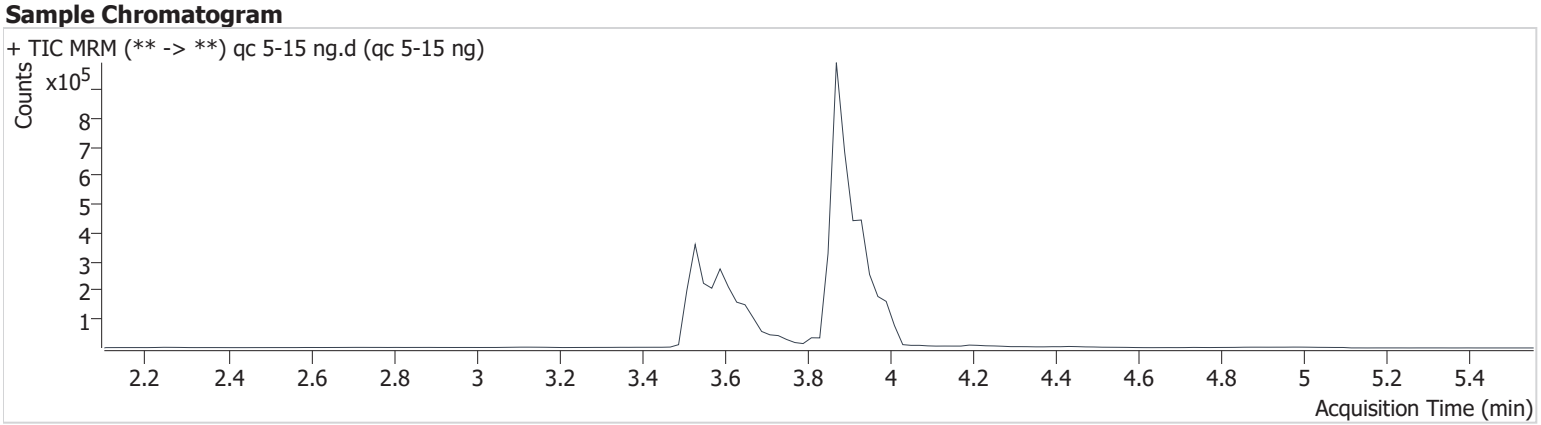
ppd 8/26/20 Exp 7/1/21 neg urine lot 73020	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	10/4/2020
ppd 10/5/20 Exp 7/1/21 neg urine lot 10120	lot 10520	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	1/12/2021
ppd 1/13/21 Exp 7/1/21 neg urine lot 10120	lot 11321	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	5/27/2021
ppd 5/28/21 Exp 7/1/21 neg urine lot 5621	lot 52821	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:56:49 PM		
Sample Info.			

Sample Chromatogram



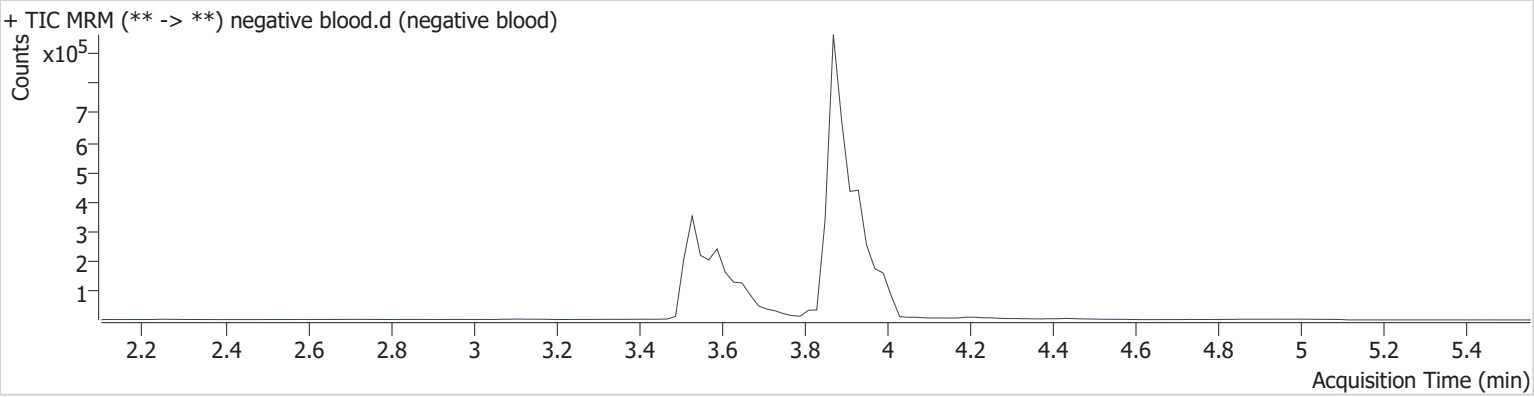
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	7132	177954	4.501 ng/ml
THC-COOH	3.612	118754	520602	17.089 ng/ml
THC-OH	3.538	11933	1560402	4.722 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 8:03:25 PM		
Sample Info.			

Sample Chromatogram

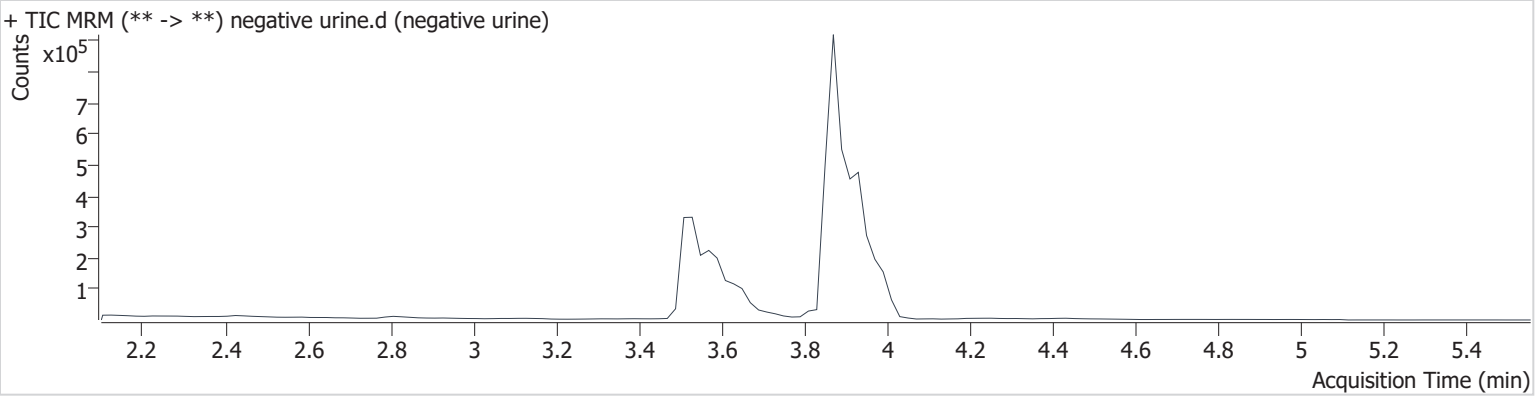


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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-B4	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/28/2021 9:55:37 PM		
Sample Info.			

Sample Chromatogram

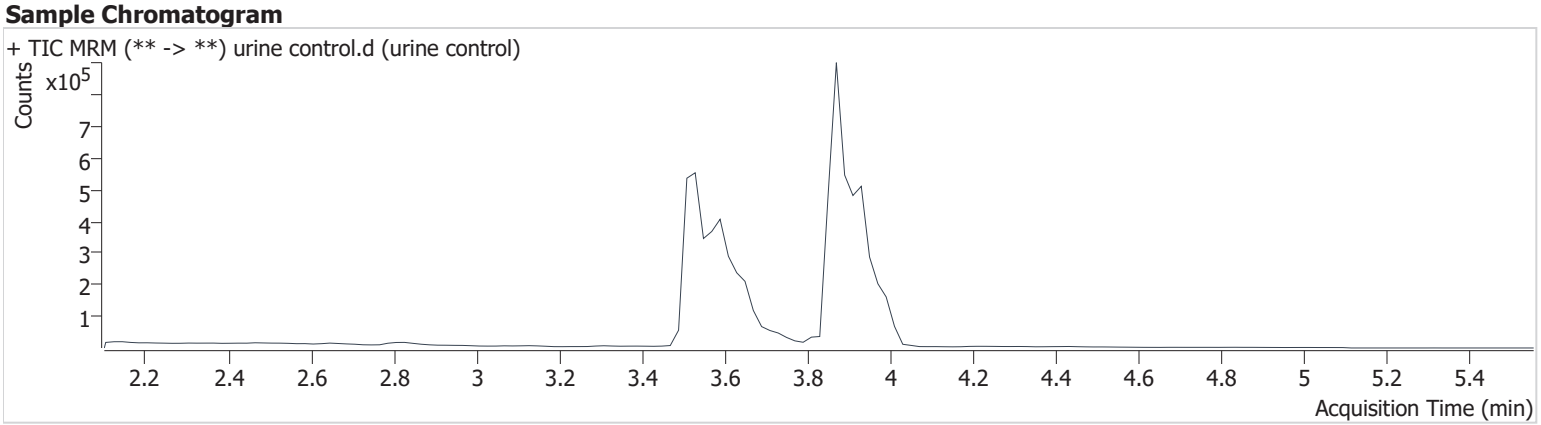


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 PM

Instrument	69679	**Data File**	urine control.d
Type	Sample	**Sample**	urine control
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-C4	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/28/2021 10:02:13 PM		
Sample Info.			

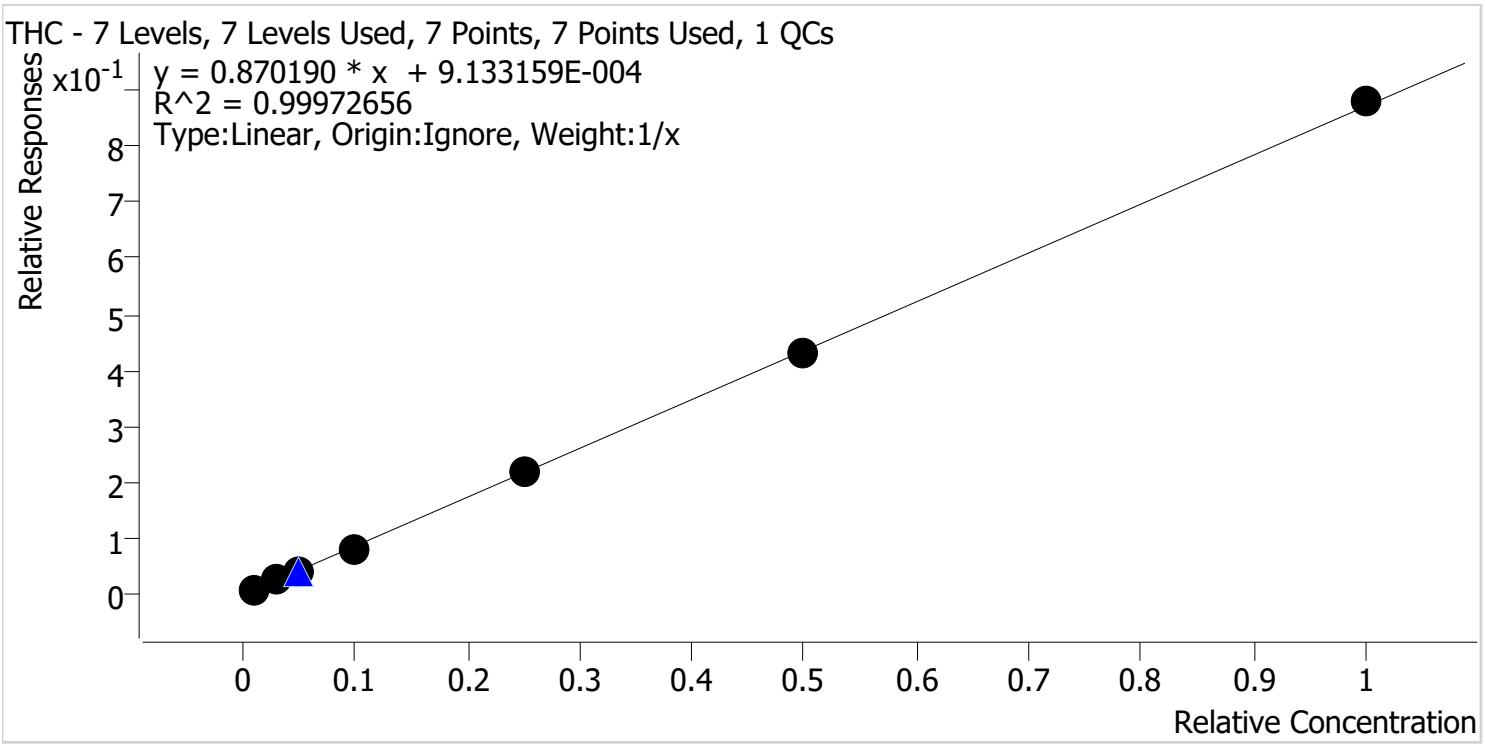
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	19055	211340	10.256 ng/ml
THC-COOH	3.592	249099	449722	41.176 ng/ml
THC-OH	3.518	120959	1744281	42.345 ng/ml

Compound Calibration Report

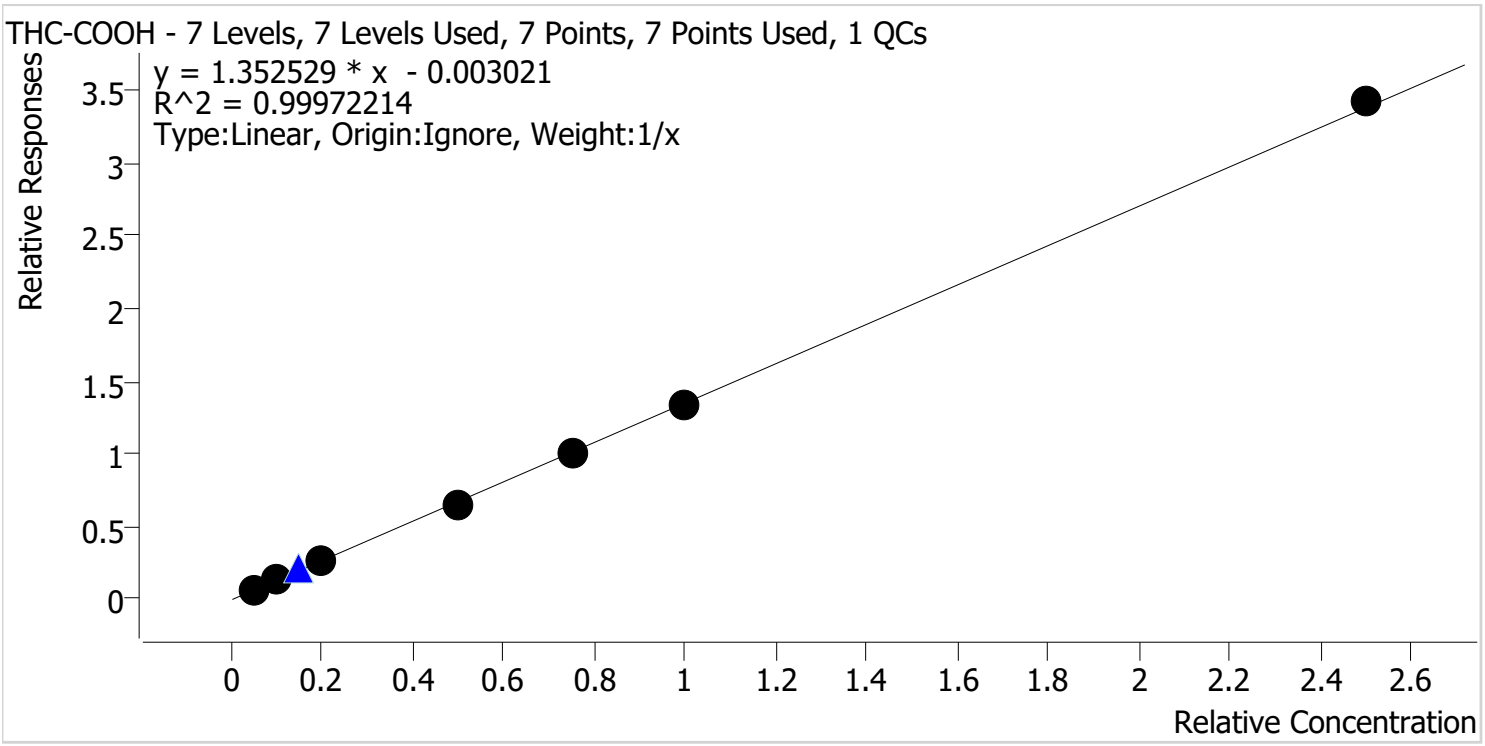
Batch results	D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Last Cal. Update	6/29/2021 1:20 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	107.6
cal 2	2	✔	3.0	3.0	98.8
cal 3	3	✔	5.0	5.0	99.0
cal 4	4	✔	10.0	9.5	94.7
cal 5	5	✔	25.0	24.8	99.4
cal-6	6	✔	50.0	49.8	99.5
cal-7	7	✔	100.0	100.9	100.9

Compound Calibration Report

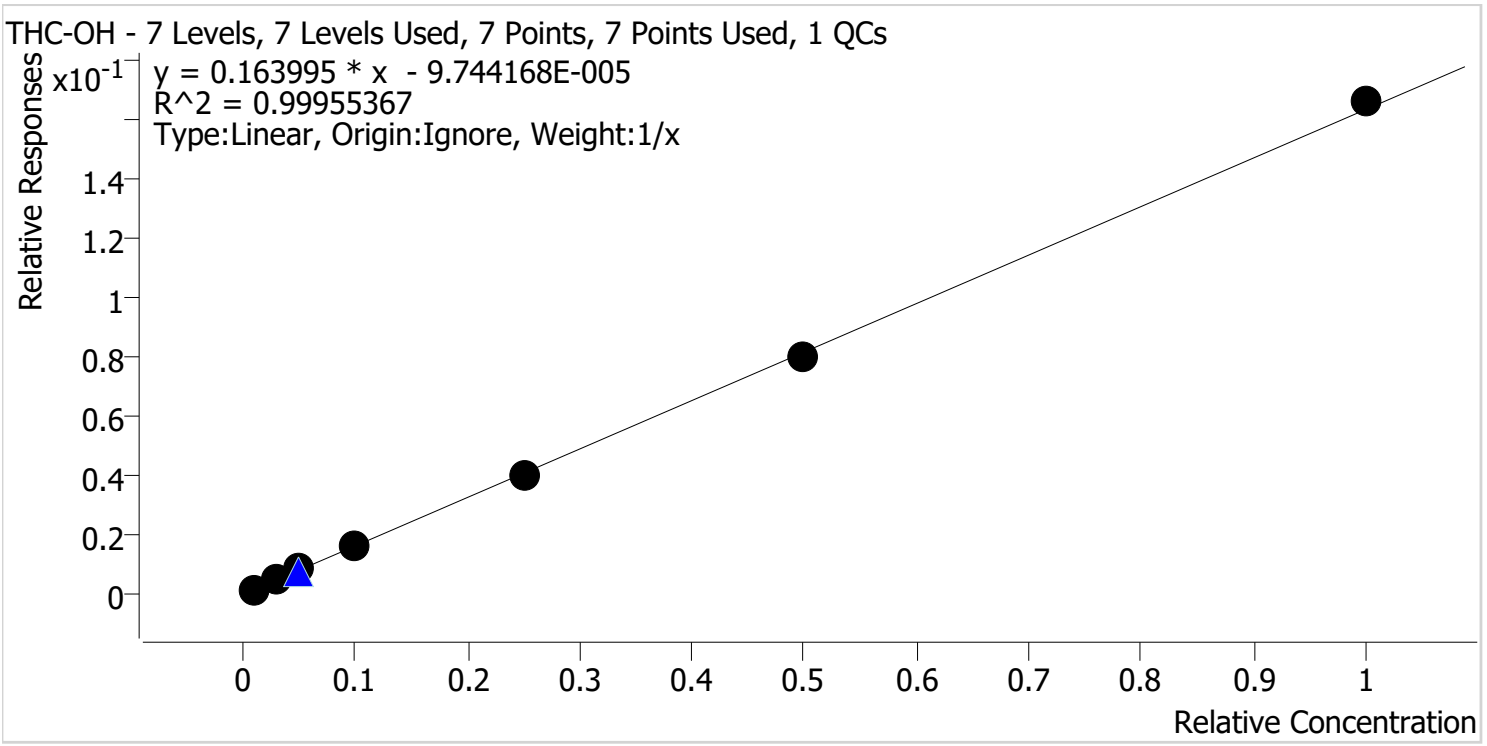
Batch results	D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Last Cal. Update	6/29/2021 1:20 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.2	103.6
cal 2	2	✔	10.0	10.1	101.5
cal 3	3	✔	20.0	19.6	98.0
cal 4	4	✔	50.0	48.8	97.6
cal 5	5	✔	75.0	74.7	99.6
cal-6	6	✔	100.0	98.5	98.5
cal-7	7	✔	250.0	253.1	101.2

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Last Cal. Update	6/29/2021 1:20 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



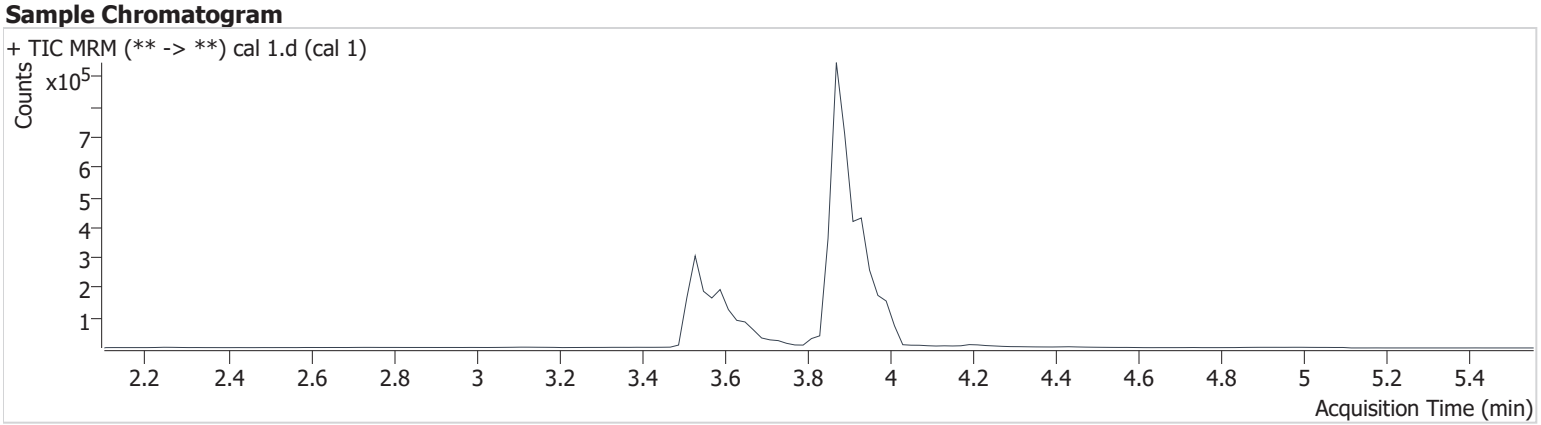
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.0	98.9
cal 2	2	✔	3.0	3.1	104.9
cal 3	3	✔	5.0	5.1	101.6
cal 4	4	✔	10.0	9.7	97.3
cal 5	5	✔	25.0	24.4	97.5
cal-6	6	✔	50.0	49.1	98.2
cal-7	7	✔	100.0	101.6	101.6

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:10:35 PM		
Sample Info.			

Sample Chromatogram



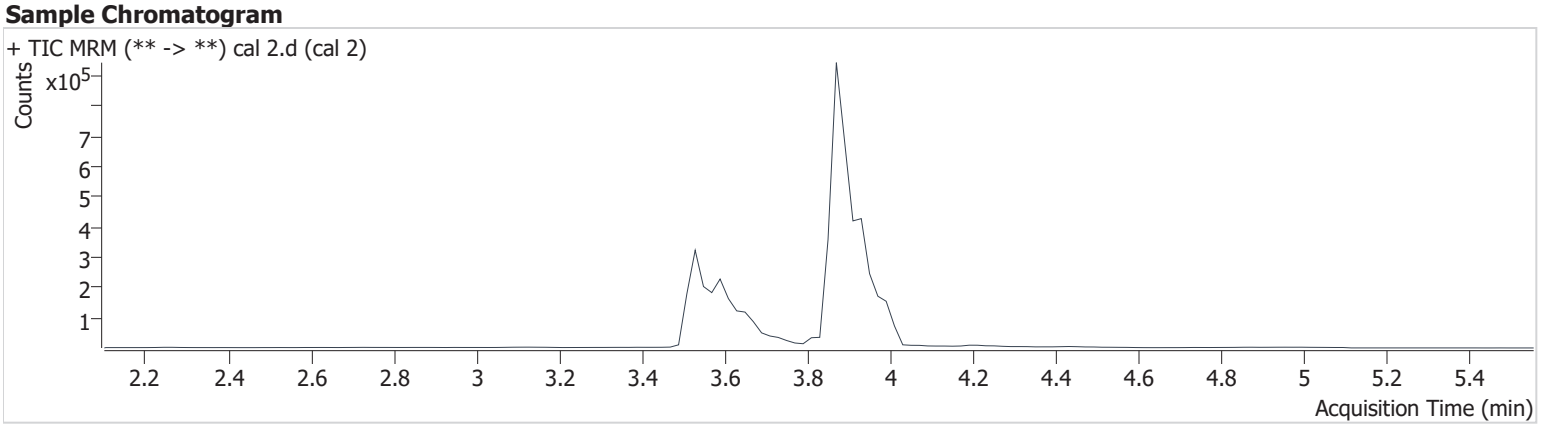
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	1786	173831	1.076 ng/ml **Low**
THC-COOH	3.612	24414	364172	5.180 ng/ml **Low**
THC-OH	3.538	2005	1315386	0.989 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:17:14 PM		
Sample Info.			

Sample Chromatogram



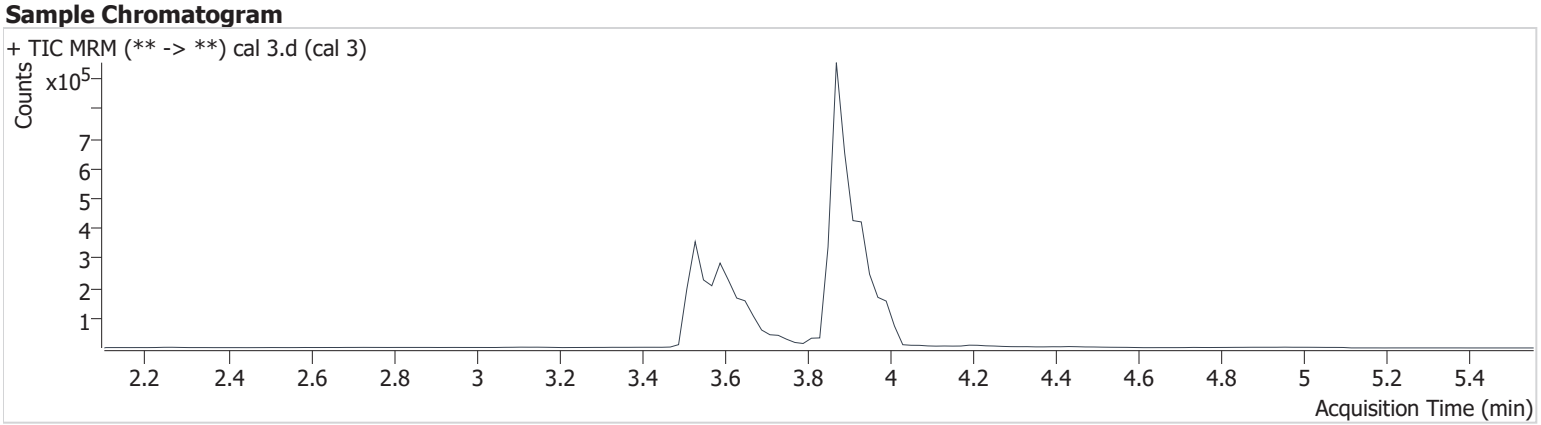
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	4651	174094	2.965 ng/ml **Low**
THC-COOH	3.612	62045	462145	10.150 ng/ml
THC-OH	3.538	7257	1432759	3.148 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:23:50 PM		
Sample Info.			

Sample Chromatogram



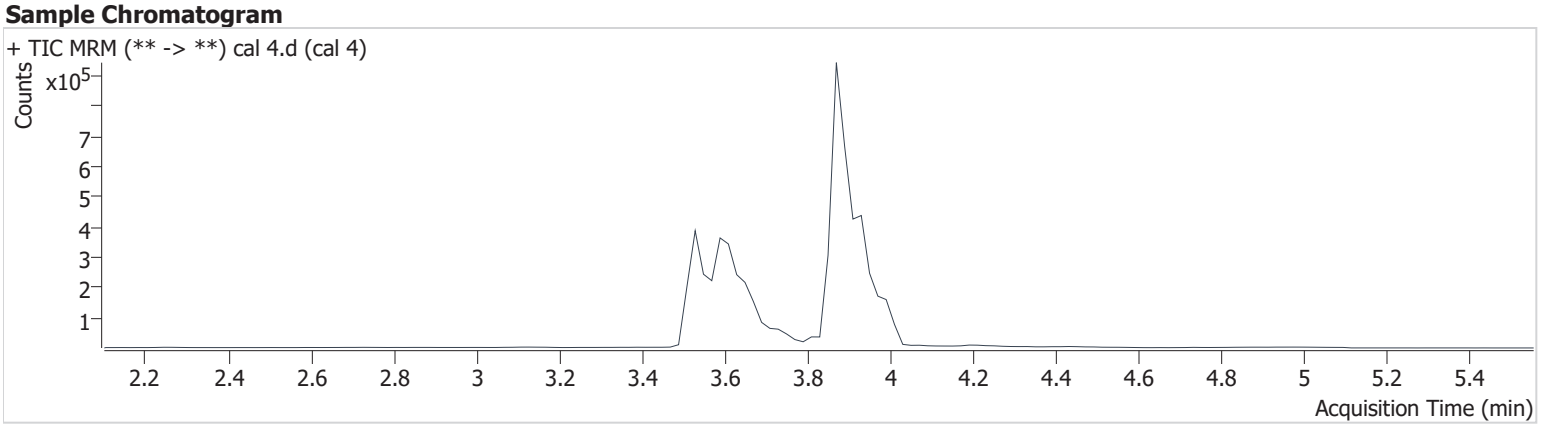
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	7367	167427	4.951 ng/ml
THC-COOH	3.612	134884	514680	19.600 ng/ml
THC-OH	3.538	12829	1558611	5.079 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:30:26 PM		
Sample Info.			

Sample Chromatogram



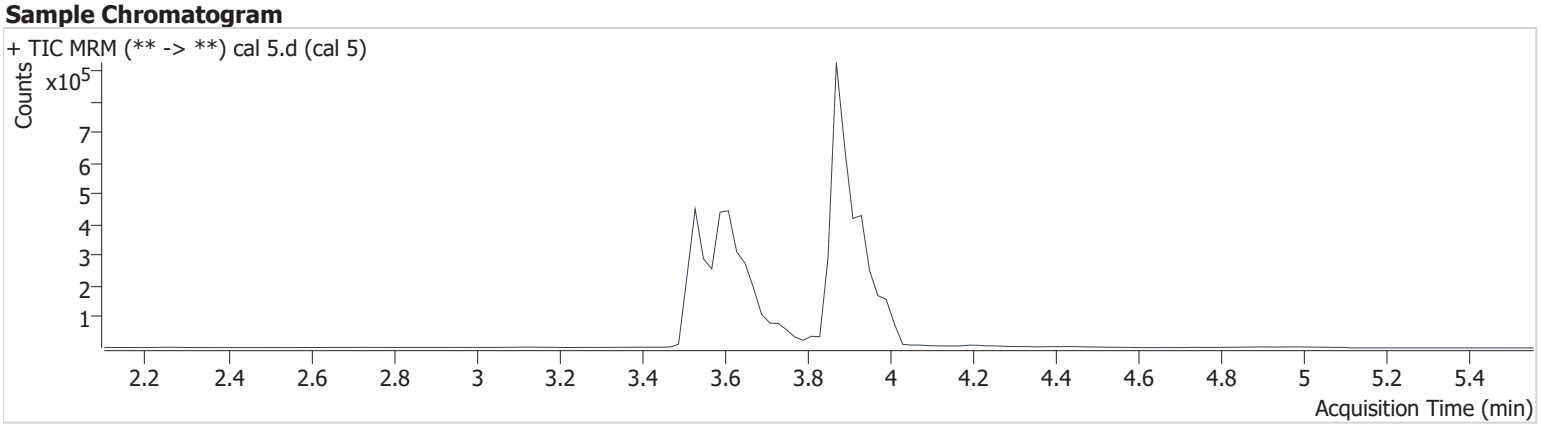
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	13895	166754	9.471 ng/ml
THC-COOH	3.612	343165	522285	48.802 ng/ml
THC-OH	3.538	24638	1553067	9.733 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:37:01 PM		
Sample Info.			

Sample Chromatogram



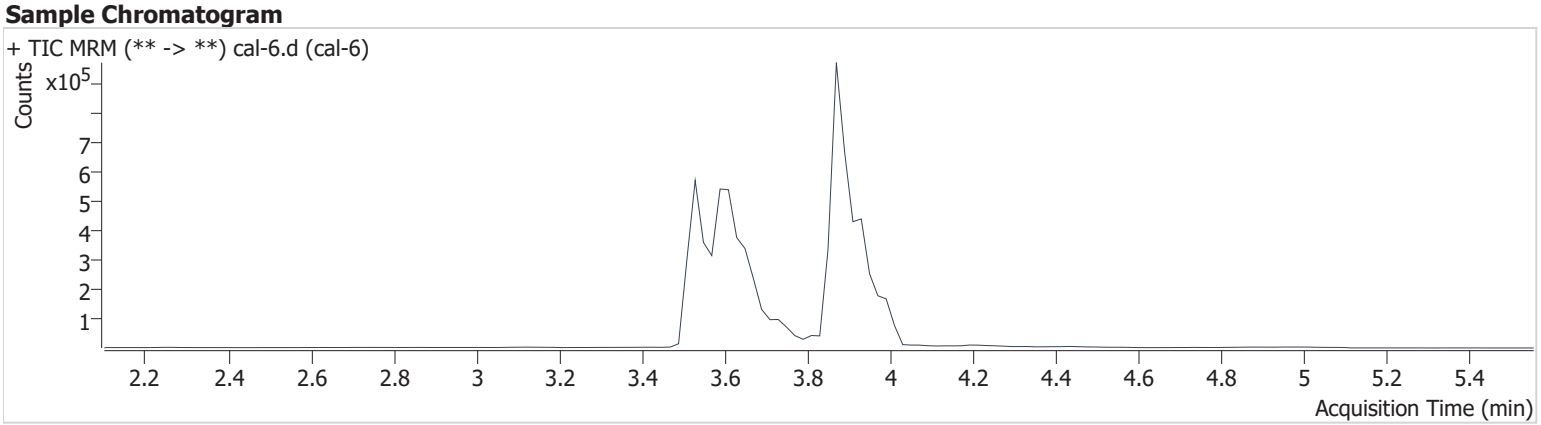
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	36507	168125	24.848 ng/ml
THC-COOH	3.612	515385	511861	74.668 ng/ml
THC-OH	3.538	60525	1517709	24.377 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:43:37 PM		
Sample Info.			

Sample Chromatogram



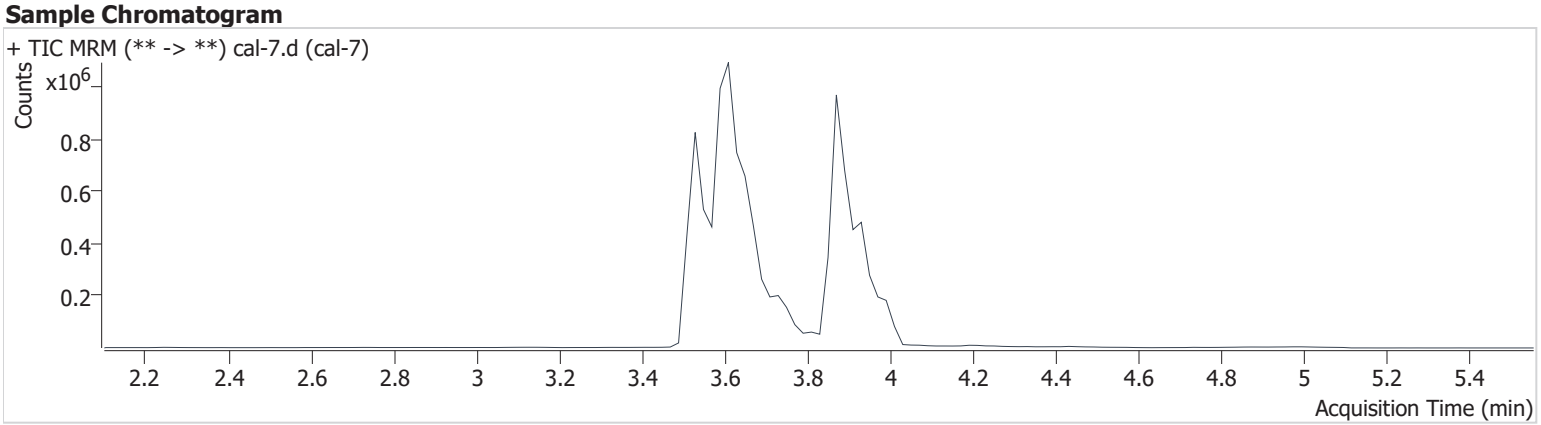
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	72096	166132	49.766 ng/ml
THC-COOH	3.612	664237	499687	98.506 ng/ml
THC-OH	3.538	120784	1502491	49.079 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\062821\QuantResults\cann.batch.bin
Calibration Last Update 6/29/2021 1:20:31 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	6/28/2021 7:50:13 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.944	147841	168166	100.923 ng/ml
THC-COOH	3.612	1671709	488783	253.094 ng/ml
THC-OH	3.538	250688	1505500	101.596 ng/ml