REVIEWED
By Celena Shrum at 11:51 am, Feb 08, 2021

2/3/2021

4/2/21- reviewed corrections to control/calibration positions on am 26 plate map BW

Worklist: 4770

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-0084	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0106	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0117	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-0143	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0162	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-0173	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0190	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0197	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-0202	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-0216	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: 2/1/21 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:** 10120 **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 occuring after the expiration of the analytical plate, an external control was included with this run as specified in the analytical method.*

	1	2	3	4	5	6	7	8	9	10	11	12
A	Cal 1			106-1								
B	Cal 1			143-1								
C	Cal 2			173-1								
D	Cal 2			190-1								
E				197-1	neg urine							Cal 2
F			negative blood	216-1	urine control	117-1						Cal 2
G			blood control			202-1						Cal 1
H			084-2			162-1						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)

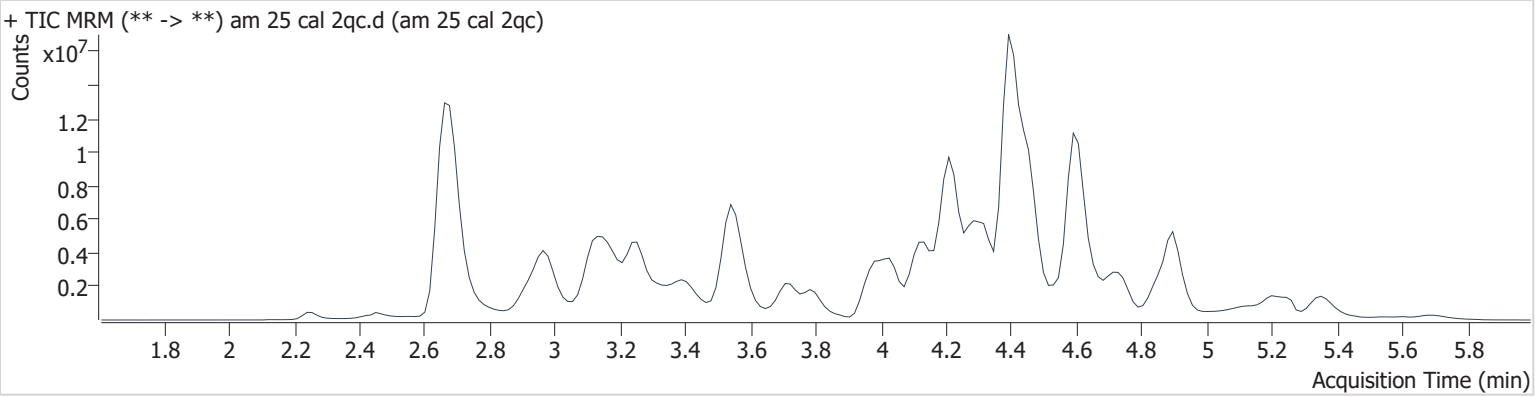
ppp 8/6/20, exp 4/1/21 lot b4121 neg blood 20G20792 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\mds.batch.bin
Calibration Last Update 2/2/2021 12:31:02 PM

Instrument	69679	**Data File**	am 25 cal 2qc.d
Type	Cal	**Sample**	am 25 cal 2qc
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-D1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/1/2021 1:46:02 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.737	40837	191.9	14.4	1237475	10.000
7-aminoclonazepam	3.331	482948	116.1	246.2	1986344	10.000
7-aminoflunitrazepam	3.558	630282	504.1	303.6	1986344	10.000
Acetyl Fentanyl	4.701	193665	66.9	40690.2	20713155	10.000
Acetyl Norfentanyl	2.971	181232	271.6	54.4	20713155	10.000
a-hydroxyalprazolam	4.302	443289	317.0	170.0	1986344	10.000
alpha-hydroxymidazolam	4.409	2146484	424.1	4794.4	1986344	10.000
alpha-PHP	4.557	2215603	4281.5	314.6	7084768	10.000
alpha-PVP	4.328	3195903	497.5	760.9	7084768	10.000
Alprazolam	4.429	1464885	689.9	917.1	12550678	10.000
Amitriptyline	5.345	471169	104.7	187.2	2541647	10.000
Amphetamine	2.976	3251831	605.6	∞	7084768	10.000
Benzoylecgonine	3.072	108587	584.5	44.4	213018	10.000
Brompheniramine	4.762	54142	308.8	11.4	35198521	10.000
Buprenorphine	5.258	350391	713.9	448.4	1522272	10.000
Bupropion	4.450	2825728	1402.5	1148.7	11311136	10.000
Carbamazepine	3.991	4440421	8337.4	2224.2	68672	10.000
Carisoprodol	3.973	734515	515.6	310.8	4116465	10.000
Chlordiazepoxide	4.538	937556	441.4	168.8	12550678	10.000
Chlorpheniramine	4.631	3586500	2269.4	25.3	35198521	10.000
Citalopram	4.685	1750946	468.5	446.4	35198521	10.000
Clomimpramine	5.703	725286	1185.2	350.7	2541647	10.000
Clonazepam	4.226	804965	716.5	5409.0	12550678	10.000
Clonazolam	4.162	812924	1052.8	643.0	12550678	10.000
Cocaethylene	4.396	3123601	1924.1	433.8	22529703	10.000
Cocaine	4.229	4022489	370.5	∞	22529703	10.000
Codeine	3.694	371876	830.5	202.8	7697802	10.000
Cyclobenzaprine	5.209	1082532	714.4	45.5	2541647	10.000
Desipramine	4.723	152012	292.4	35.1	2541647	10.000
Dextromethorphan	5.149	1113048	704.5	185.4	5772733	10.000
Dextrorphan	4.004	1902115	1273.3	1869.1	5772733	10.000
Diazepam	4.675	862512	1143.0	1799.8	12550678	10.000
Dihydrocodeine	3.282	736073	52.5	175.9	7697802	10.000
Diphenhydramine	4.617	5073632	736.2	1307.9	35198521	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	5.026	842918	326.1	158.2	9761893	10.000
Doxylamine	4.125	6636666	3107.9	4839.3	5772733	10.000
EDDP	4.463	1143627	193.2	251.3	2405752	10.000
Estazolam	4.338	3672134	1360.6	603.8	12550678	10.000
Etizolam	4.455	136790	5660.9	297567.5	12550678	10.000
Fentanyl	4.868	98538	49.3	1056.4	5999436	10.000
Flualprazolam	4.286	570668	710.1	380.5	12550678	10.000
Flunitrazepam	4.366	1489894	1611.3	6566.1	12550678	10.000
Fluoxetine	4.795	579226	244.8	14.0	1222600	10.000
Flurazepam	4.819	2040593	1540.4	2768.9	12550678	10.000
Hydrocodone	4.153	1318006	225.5	110.9	7697802	10.000
Hydromorphone	3.058	776289	64.4	41.1	164749	10.000
Imipramine	5.359	2126085	2062.4	581.0	2541647	10.000
Ketamine	4.236	2416417	1091.0	150.2	8776613	10.000
Lamotrigine	3.409	184835	274.4	198.9	35198521	10.000
Levamisole	3.750	1627749	2885.6	269.2	22529703	10.000
Levetireacetam	2.247	549333	210.7	565.3	4116465	10.000
Lorazepam	4.210	764009	∞	2296.8	12550678	10.000
Maprotiline	5.346	287137	98.6	137.3	2541647	10.000
MDA	3.201	2097824	456.8	181.1	18562384	10.000
MDEA	3.565	2857208	126.2	5120.8	18562384	10.000
MDMA	3.398	3369607	3099.9	802.2	18562384	10.000
Meperidine	4.326	2097895	204.8	946.8	5772733	10.000
Meprobamate	3.351	291007	293.2	146.3	4116465	10.000
Methadone	4.916	2845125	662.2	109.1	2405752	10.000
Methamphetamine	3.172	5745917	7150.3	208.3	18562384	10.000
Methocarbamol	3.273	217329	274.4	48.3	2405752	10.000
Methylphenidate	4.053	6105981	9779.8	326.8	13868499	10.000
Metoprolol	3.697	525517	413.9	201.1	5772733	10.000
Midazolam	4.624	342089	2080.2	480.8	12550678	10.000
Mirtazapine	4.724	1971085	726.2	2689.3	5772733	10.000
Mitragynine	4.879	161626	249.6	216.5	5772733	10.000
Morphine	2.560	200327	∞	2176.4	164749	10.000
Norbuprenorphine	4.589	40918	11368.6	3924.0	1522272	10.000
Nordiazepam	4.510	826176	923.1	787.8	12550678	10.000
Norfentanyl	3.563	3999299	5320.4	183.0	20713155	10.000
Norhydrocodone	3.406	88837	33.7	38.8	7697802	10.000
norketamine	4.023	431001	356.0	1159.7	35198521	10.000
Normeperidine	4.007	1774904	1555.5	195.3	35198521	10.000
Noroxycodone	3.146	1072946	114.0	137.5	8776613	10.000
Nortriptyline	5.619	111743	59.1	9.7	2541647	10.000
O-desmethyl-tramadol	2.985	5053455	2460.4	161.4	35198521	10.000
Olanzapine	4.596	552404	230.1	463.8	68672	10.000
Oxazepam	4.292	1580355	486.1	134.1	10022382	10.000
Oxycodone	3.493	1956730	622.5	426.0	8776613	10.000
Oxymorphone	2.435	1030482	479.4	271.5	164749	10.000
Paroxetine	5.791	4295	8.0	108.6	1222600	10.000
Phenazepam	4.454	1314630	673.8	388.8	12550678	10.000
Phencyclidine	4.435	2994129	171.7	161.7	5772733	10.000
Phentermine	3.278	39760	30.4	621.9	13868499	10.000
Phenytoin	3.882	109017	1122.2	44.7	68672	10.000
Promethazine	5.206	2265560	976.4	516.1	35198521	10.000
Pseudoephedrine	2.672	56040018	15299.8	10826.8	18562384	10.000
Quetiapine	4.744	2309063	1511.2	806.5	27551562	10.000
Sertraline	5.536	231896	197.0	∞	1222600	10.000
Sufentanil	5.063	70290	26675.3	444.9	20713155	10.000
Tapentadol	3.718	3167362	3662.8	1549.7	8776613	10.000
Temazepam	4.476	2313064	578.3	57.6	12550678	10.000
Tramadol	3.804	5329461	6827.4	61.0	35198521	10.000
Trazodone	4.897	1968268	1052.2	2001.8	9761893	10.000

AM #25 Multi-Drug Screen Results

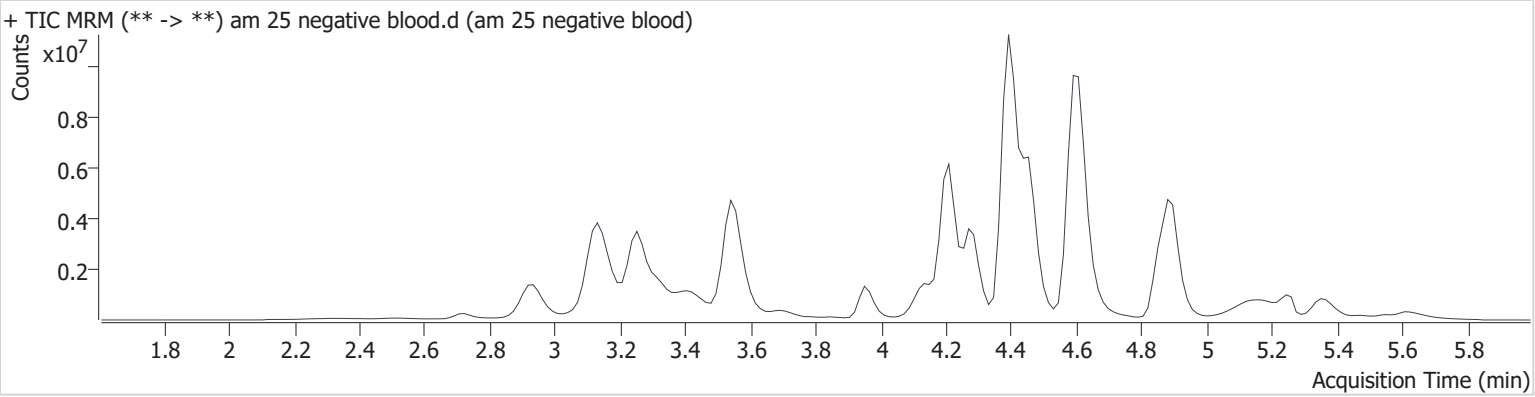
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	4.231	4331254	739.2	178.8	1222600	10.000
Zaleplon	4.152	860053	2712.5	287.1	27551562	10.000
Zolpidem	4.398	5473220	33171.9	748.9	27551562	10.000
Zopiclone	4.437	321245	871.8	346.9	1635786	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\mds.batch.bin
Calibration Last Update 2/2/2021 12:31:02 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	P2-F3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/1/2021 1:52:43 PM		
Sample Info.			

Sample Chromatogram

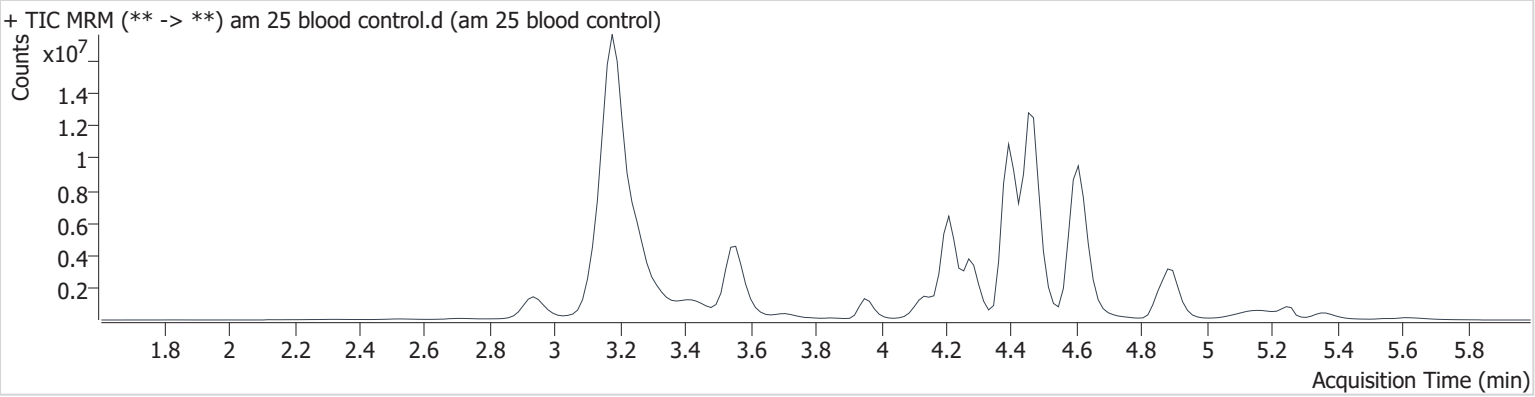


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\mds.batch.bin
Calibration Last Update 2/2/2021 12:31:02 PM

Instrument	69679	**Data File**	am 25 blood control.d
Type	Sample	**Sample**	am 25 blood control
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-G3	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/1/2021 1:59:25 PM		
Sample Info.			

Sample Chromatogram



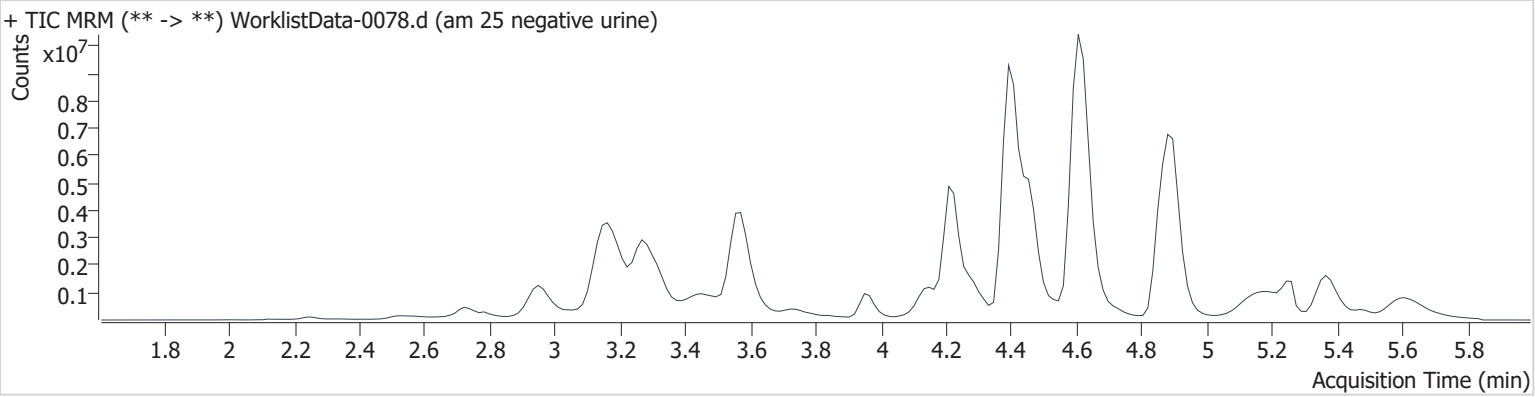
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.187	35723185	∞	∞	17227960	66.987
Midazolam	4.624	2408187	4203.3	54207.3	13185209	67.009
Temazepam	4.476	21004795	20683.2	561.7	13185209	86.439

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\mds.batch.bin
Calibration Last Update 2/2/2021 12:31:02 PM

Instrument	69679	**Data File**	WorklistData-0078.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-E5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/1/2021 2:53:04 PM		
Sample Info.			

Sample Chromatogram



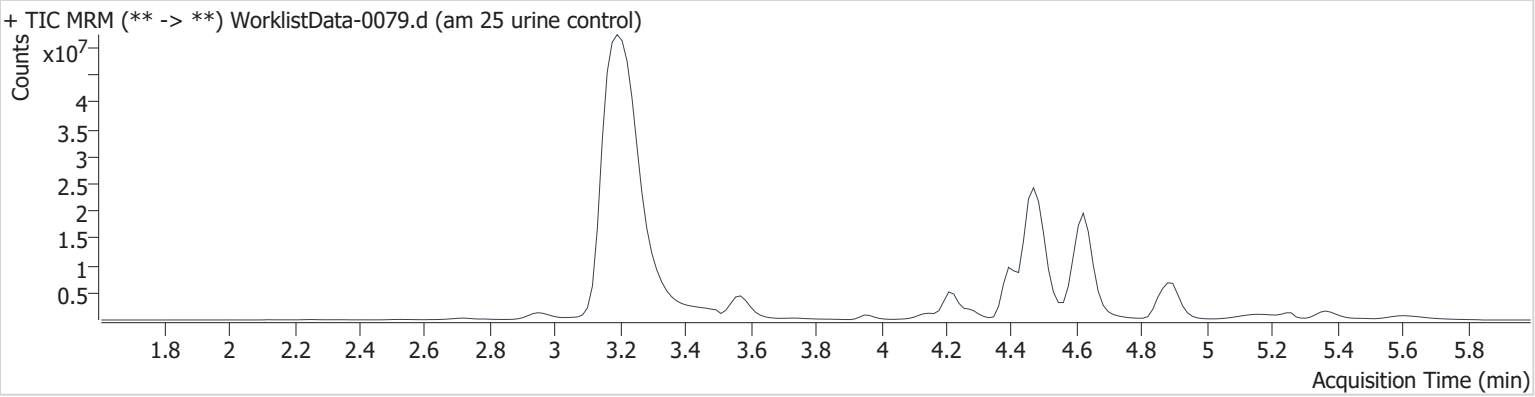
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Codeine	3.786	80575	59.6	20.7	5609110	2.974 <32

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\mds.batch.bin
Calibration Last Update 2/2/2021 12:31:02 PM

Instrument	69679	**Data File**	WorklistData-0079.d
Type	Sample	**Sample**	am 25 urine control
Acq. Method	mds 826.m	**Operator**	Anne Nord
Sample Position	P2-F5	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	2/1/2021 2:59:46 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	3.203	132337293	∞	19864.3	13174500	324.506
Midazolam	4.624	23396655	7206.0	66986.5	6533607	1313.800
Temazepam	4.476	64306937	7654.6	575.5	6533607	534.053

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

Extraction Date: 2/1/21 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:** 10120
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 ~~cal 100 ng~~	neg blood	neg urine			QC 1
b	cal 2 ~~cal 50 ng~~	084-2	urine control			cal 100 ng
c	cal 3 ~~cal 25 ng~~	106-1	117-1			cal 50 ng
d	cal 4 ~~cal 10ng~~	143-1	162-1			cal 25 ng
e	cal 5 ~~cal 5 ng~~	173-1	202-1			cal 10ng
f	cal 6 ~~cal 3 ng~~	190-1				cal 5 ng
g	cal 7 ~~cal 1ng~~	197-1				cal 3 ng
h	QC 1	216-1				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	

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

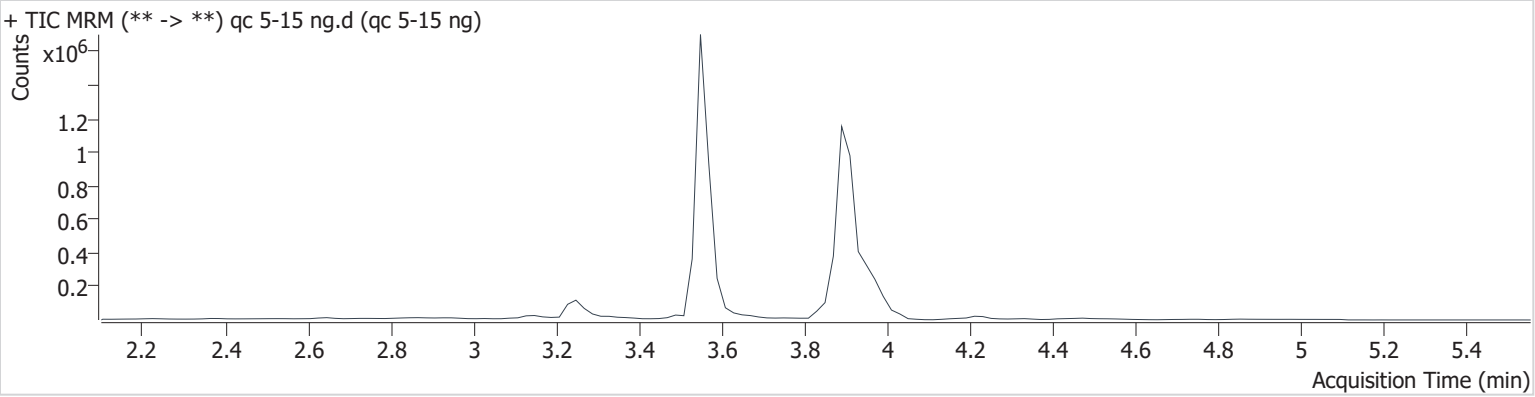
ppd 8/26/20 Exp 7/1/21 neg urine lot 73020	lot u82620	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	10/4/2020
ppd 10/5/20 Exp 7/1/21 neg urine lot 10120	lot 10520	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	1/12/2021
ppd 1/13/21 Exp 7/1/21 neg urine lot 10120	lot 11321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

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:39:50 PM		
Sample Info.			

Sample Chromatogram



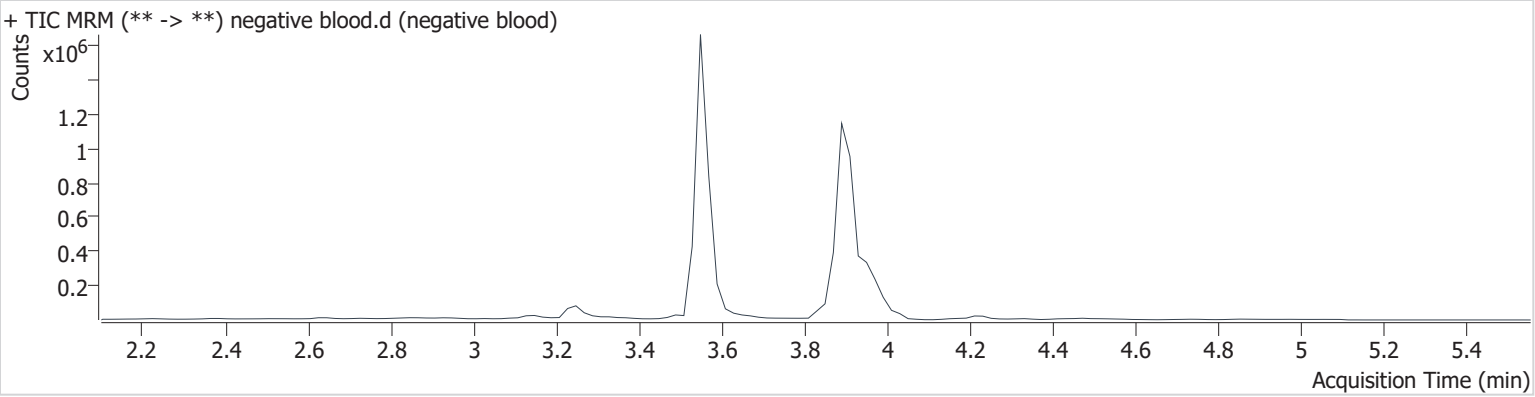
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	17508	495852	4.076 ng/ml
THC-COOH	3.251	66087	250745	15.560 ng/ml
THC-OH	3.558	21303	3885925	4.037 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:46:26 PM		
Sample Info.			

Sample Chromatogram

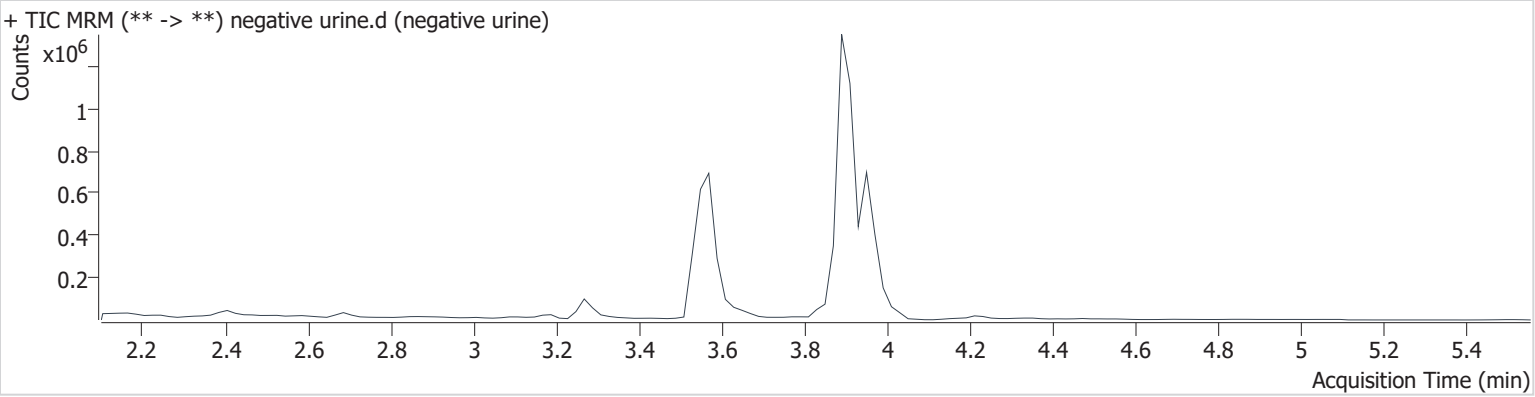


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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-A3	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/1/2021 5:39:13 PM		
Sample Info.			

Sample Chromatogram

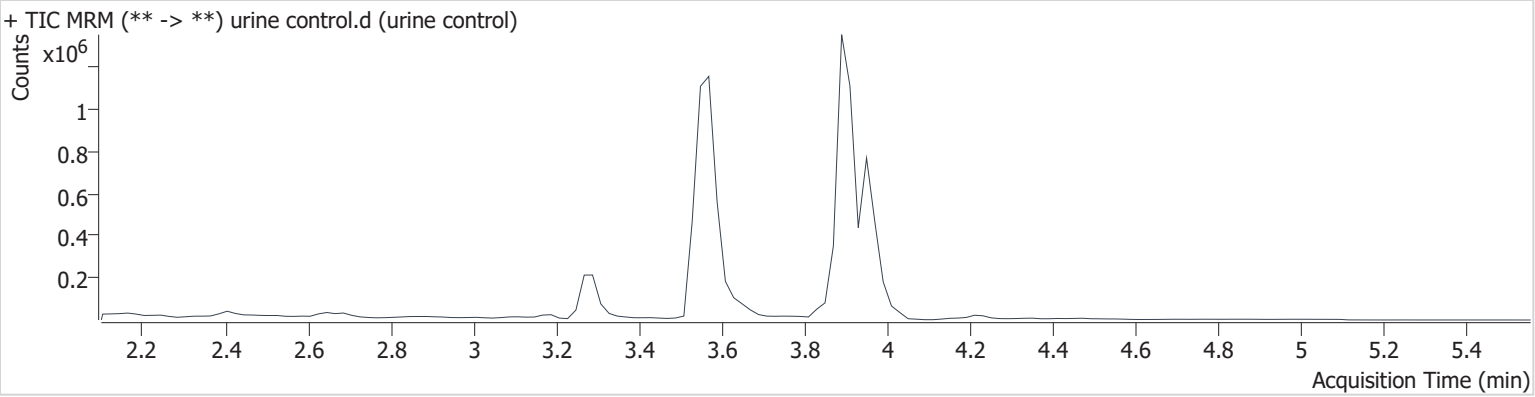


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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-B3	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/1/2021 5:45:51 PM		
Sample Info.			

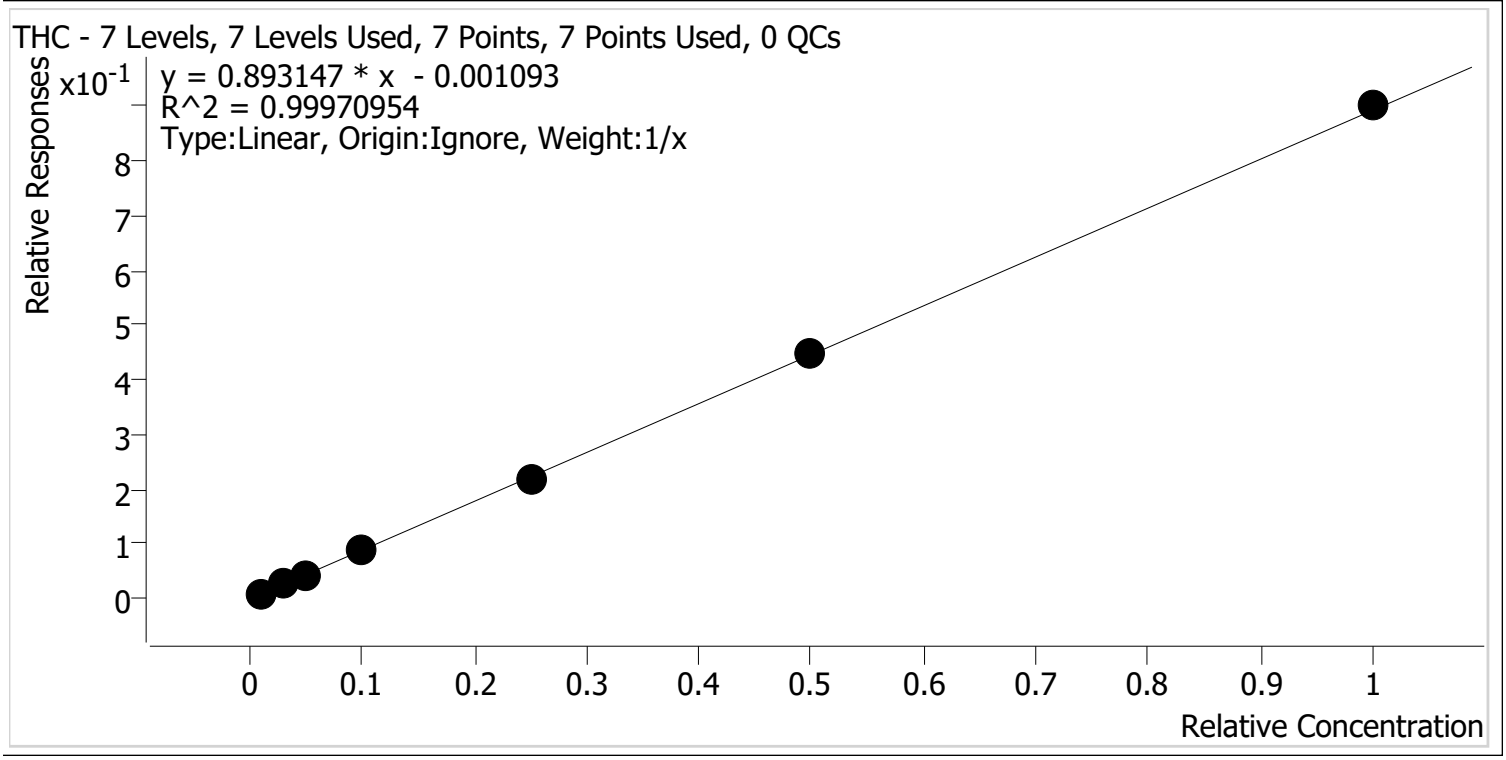
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	210501	1146396	20.681 ng/ml
THC-COOH	3.291	169408	249036	45.846 ng/ml
THC-OH	3.578	210714	2535903	58.897 ng/ml

Compound Calibration Report

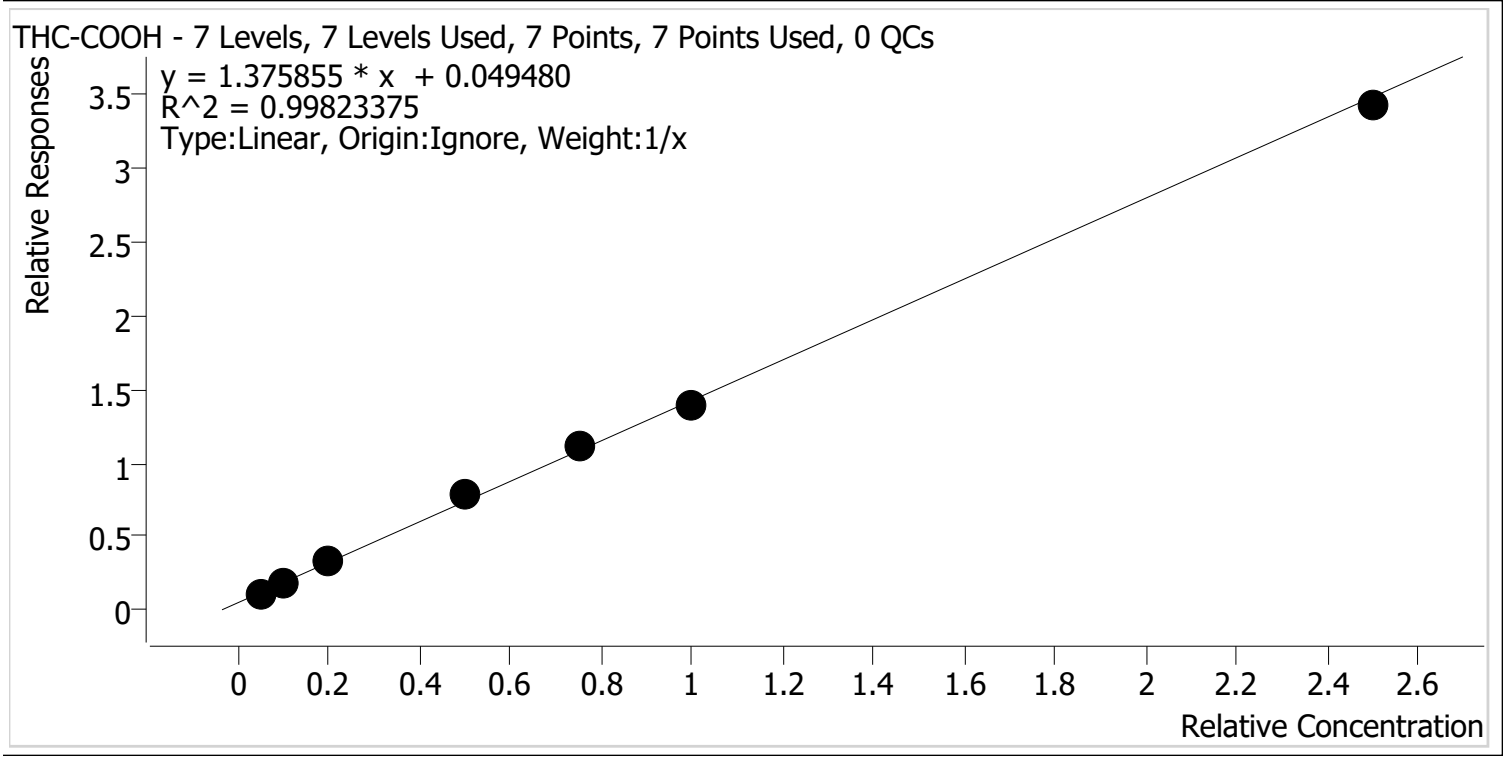
Batch results	D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Last Cal. Update	2/2/2021 12:27 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	109.7
cal 2	2	✔	3.0	3.0	98.7
cal 3	3	✔	5.0	4.7	94.9
cal 4	4	✔	10.0	9.8	97.9
cal 5	5	✔	25.0	24.5	97.8
cal-6	6	✔	50.0	50.0	100.1
cal-7	7	✔	100.0	100.9	100.9

Compound Calibration Report

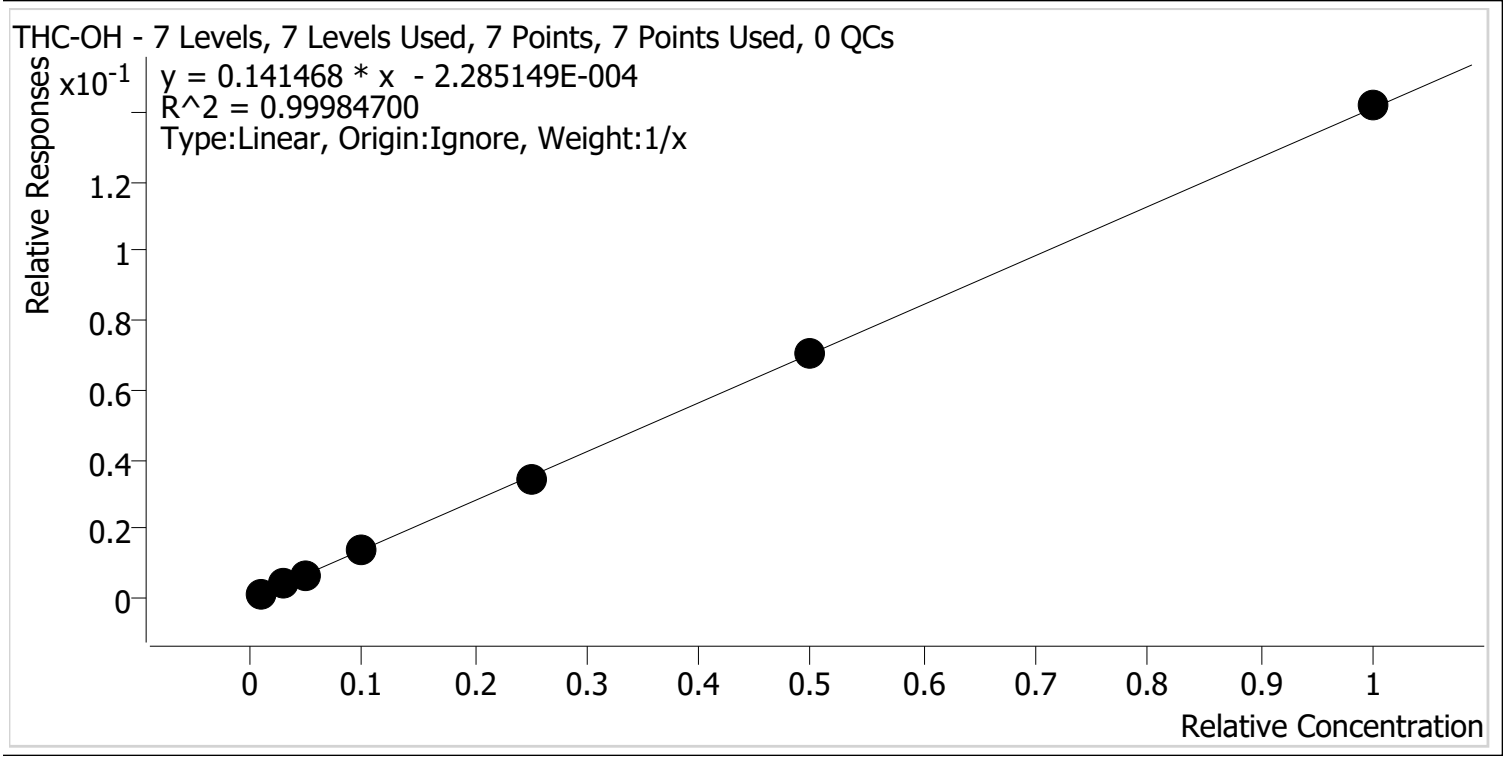
Batch results	D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Last Cal. Update	2/2/2021 12:27 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	4.4	87.4
cal 2	2	✔	10.0	9.9	99.1
cal 3	3	✔	20.0	21.4	106.8
cal 4	4	✔	50.0	54.0	108.0
cal 5	5	✔	75.0	77.1	102.8
cal-6	6	✔	100.0	97.6	97.6
cal-7	7	✔	250.0	245.7	98.3

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Last Cal. Update	2/2/2021 12:27 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



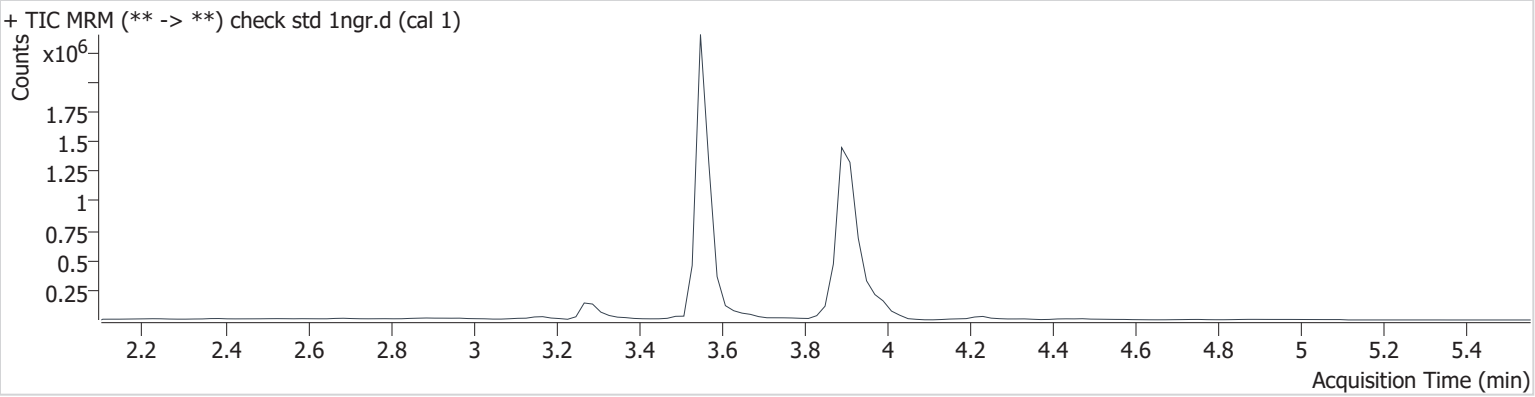
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	107.0
cal 2	2	✔	3.0	2.8	94.4
cal 3	3	✔	5.0	5.0	100.1
cal 4	4	✔	10.0	10.0	99.6
cal 5	5	✔	25.0	24.5	98.2
cal-6	6	✔	50.0	50.1	100.2
cal-7	7	✔	100.0	100.5	100.5

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 PM

Instrument	69679	**Data File**	check std 1ngr.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	2/1/2021 3:53:38 PM		
Sample Info.			

Sample Chromatogram



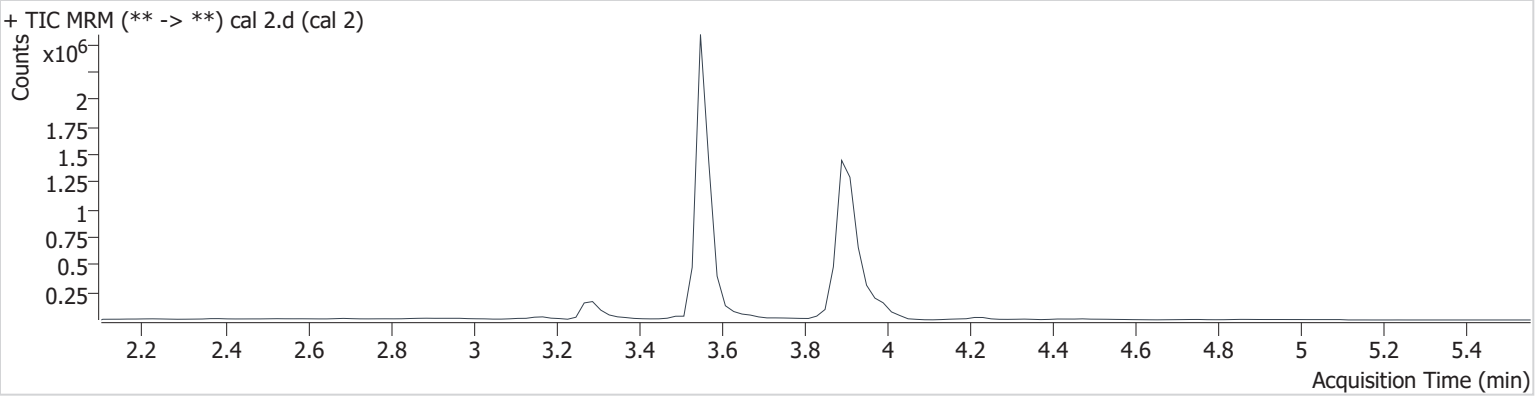
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	3319	381266	1.097 ng/ml **Low**
THC-COOH	3.291	43376	395737	4.370 ng/ml **Low**
THC-OH	3.558	7397	5753311	1.070 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:00:15 PM		
Sample Info.			

Sample Chromatogram



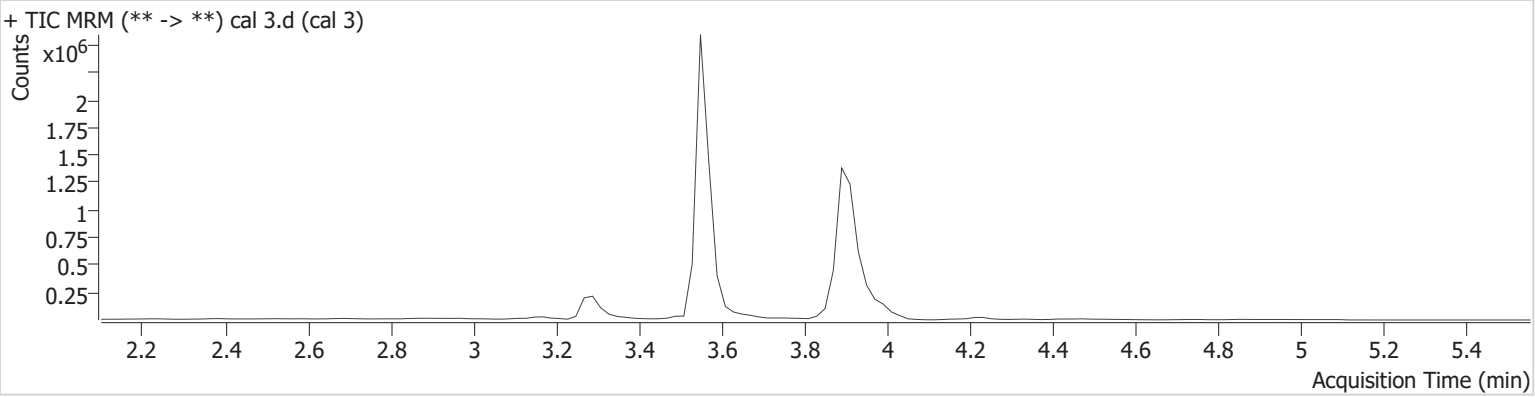
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	8713	343608	2.961 ng/ml **Low**
THC-COOH	3.291	75038	403787	9.911 ng/ml **Low**
THC-OH	3.558	22771	6025229	2.833 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:06:51 PM		
Sample Info.			

Sample Chromatogram



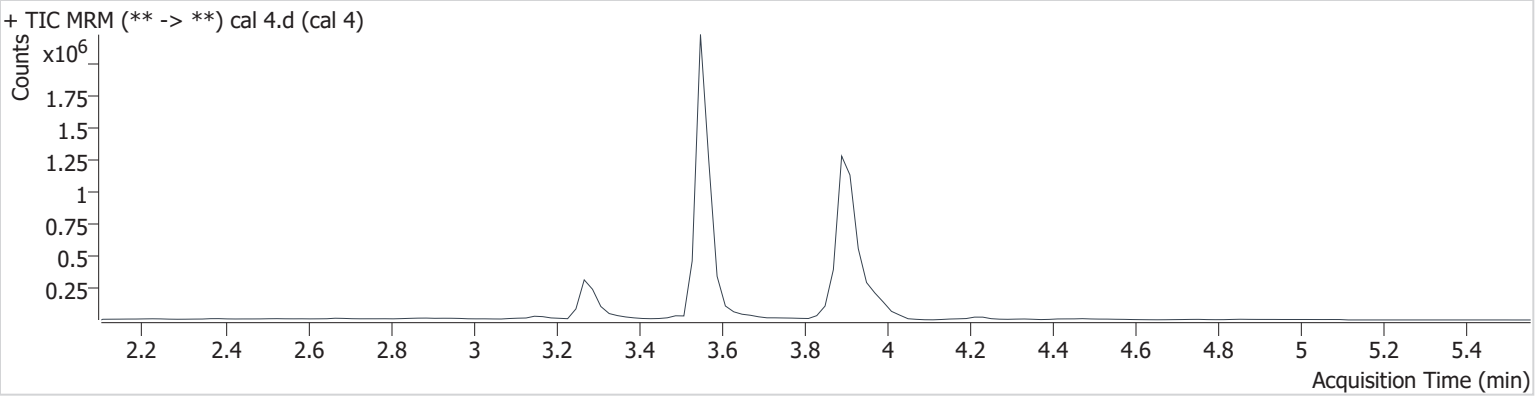
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	14371	348074	4.745 ng/ml
THC-COOH	3.291	139912	407322	21.369 ng/ml
THC-OH	3.558	40536	5915685	5.005 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:13:27 PM		
Sample Info.			

Sample Chromatogram



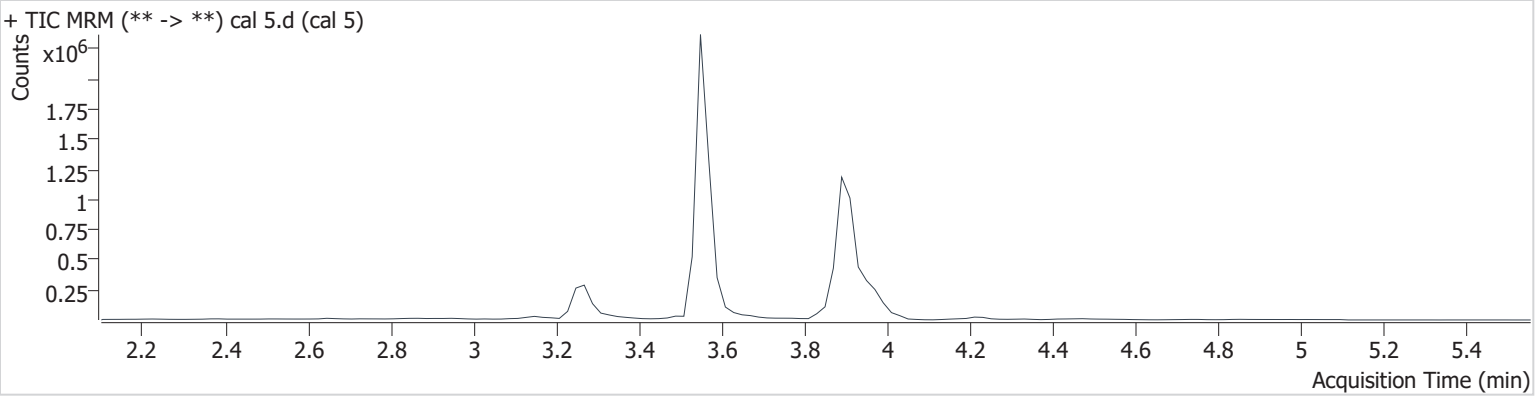
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	30638	354899	9.788 ng/ml
THC-COOH	3.271	259265	327273	53.982 ng/ml
THC-OH	3.558	66474	4797429	9.956 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:20:03 PM		
Sample Info.			

Sample Chromatogram



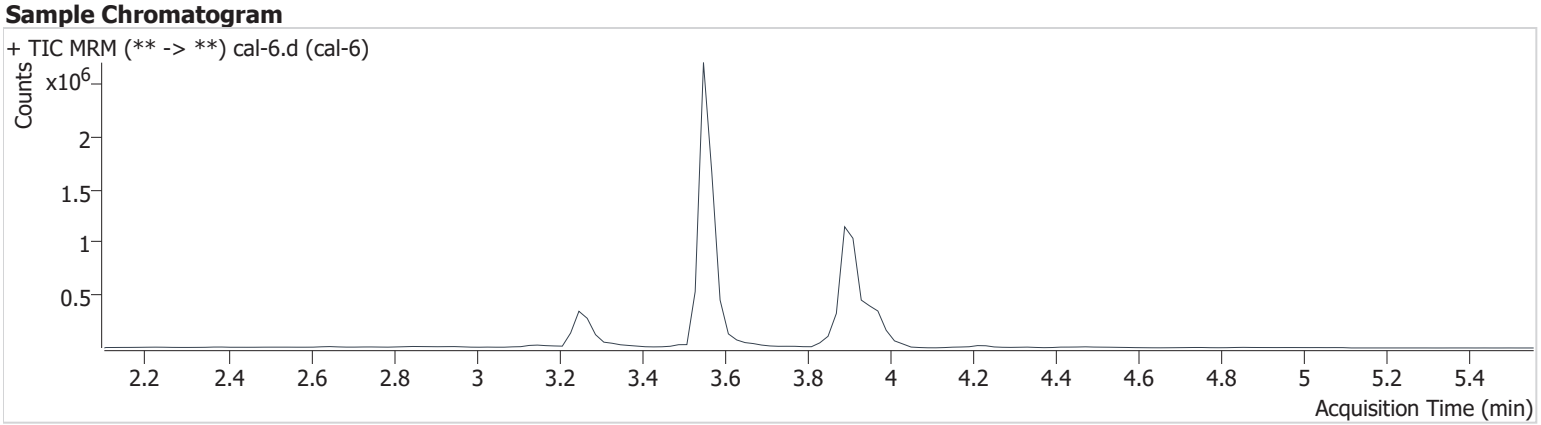
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	92943	427686	24.454 ng/ml
THC-COOH	3.271	309916	279081	77.116 ng/ml
THC-OH	3.558	151854	4401464	24.549 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:26:39 PM		
Sample Info.			

Sample Chromatogram



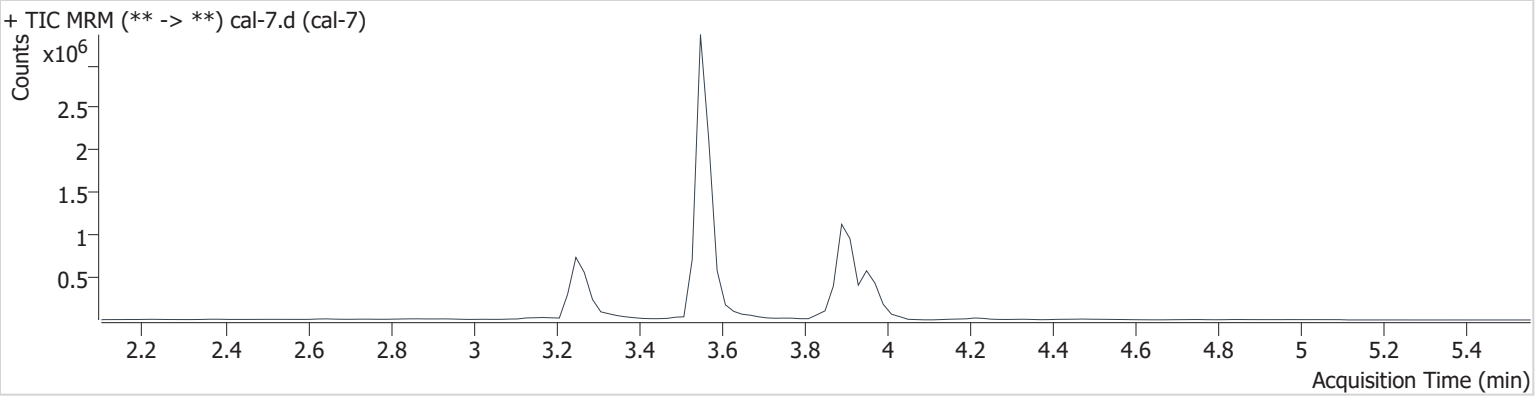
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.984	219915	493408	50.025 ng/ml
THC-COOH	3.251	376206	270231	97.589 ng/ml
THC-OH	3.558	292662	4144478	50.077 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\020121\QuantResults\cann screen.batch.bin
Calibration Last Update 2/2/2021 12:27:16 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	2/1/2021 4:33:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	3.964	481462	534747	100.929 ng/ml
THC-COOH	3.251	883366	257584	245.662 ng/ml
THC-OH	3.558	534238	3763343	100.508 ng/ml