12/6/2021

REVIEWED
By Brittany Wylie at 1:58 pm, Dec 06, 2021

Worklist: 5425

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
C2021-2422	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2507		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2508		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2521		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2541		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2554		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2555		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2561		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2582		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2599		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2600		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2605		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2608	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
C2021-2618		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
C2021-2624		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2012-1953	C1	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: 12/7/21 Analyst: Anne Nord
Plate lot#: 210611 Plate retest date: 12/11/21

Mobile phase A: 10mM Ammonium Formate **Mobile phase B:** 0.1% Formic Acid in MeOH
0.5M Ammonium Hydroxide Ethyl Acetate LC 20% Methanol
Blank Blood Lot: 21D52496 **Blank Urine lot:** 83121 **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:

	1	2	3	4	5	6	7	8	9	10	11	12
A	cal 1	2555-1										2618-1
B		2582-1										2507-1
C	negative blood	2599-1										
D	2422-2	2600-1										2561-1
E	2508-1	2605-1										urine positive control
F	2521-1	2608-1										neg urine
G	2541-1	2624-1										
H	2554-1	p2012-1953-c1										

lab number format
C2021-____-_

Toxicology AM method 25/28 urine external control prep

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

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)

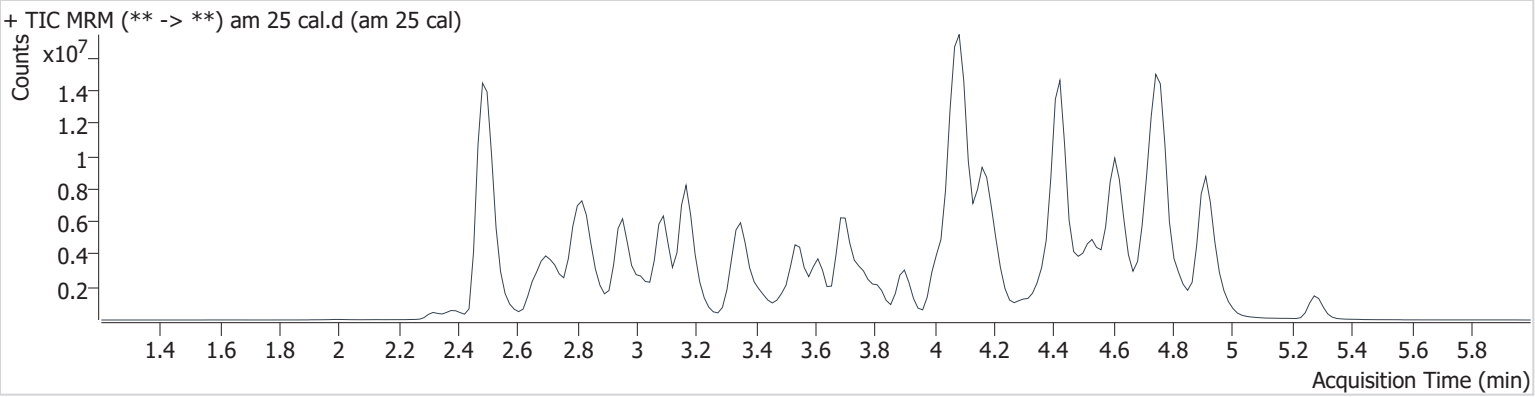
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\mds.batch.bin
Calibration Last Update 12/7/2021 9:21:25 AM

Instrument	69679	**Data File**	am 25 cal.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-A1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/6/2021 12:32:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.226	48267	32823.1	514.6	1359921	10.000
7-aminoclonazepam	3.354	398278	581.4	470.7	2591910	10.000
7-aminoflunitrazepam	3.583	1039330	360.9	215.7	2591910	10.000
Acetyl Fentanyl	4.408	274184	108.0	65022.0	20629991	10.000
Acetyl Norfentanyl	2.702	243769	113.0	235.2	20629991	10.000
a-hydroxyalprazolam	4.377	82858	11063.7	144.4	2591910	10.000
alpha-hydroxymidazolam	4.468	1198764	175.2	640.3	2591910	10.000
alpha-PHP	4.125	2247419	835.9	357.7	7316594	10.000
alpha-PVP	3.834	2997149	788.9	200.3	7316594	10.000
Alprazolam	4.488	1211160	2398.7	738.0	6491492	10.000
Amitriptyline	4.645	808490	125.1	203.0	4222914	10.000
Amphetamine	2.707	2780477	3145.1	113.8	7316594	10.000
Benzoylecgonine	3.137	98199	152634.4	36.2	181876	10.000
Brompheniramine	4.117	62160	40.5	6.8	40667634	10.000
Buprenorphine	5.287	169485	56908.0	1226.5	3893449	10.000
Bupropion	4.125	2990907	461.5	1082.9	11323416	10.000
Carbamazepine	4.064	3774911	1735.3	333.6	63766	10.000
Carisoprodol	4.046	536386	199862.9	40.1	3009815	10.000
Chlordiazepoxide	4.627	496157	244.5	343.7	6491492	10.000
Chlorpheniramine	4.014	4121360	6671.2	∞	40667634	10.000
Citalopram	4.084	1977502	202.7	598547.4	40667634	10.000
Clomimpramine	4.914	1393722	1142.4	1299.1	6039922	10.000
Clonazepam	4.301	207007	1237.1	120.1	6491492	10.000
Clonazolam	4.220	420866	141435.8	95853.2	6491492	10.000
Cocaethylene	3.901	2898336	2573767.6	357.9	40667634	10.000
Cocaine	3.734	3733421	1763.5	427.7	20013017	10.000
Codeine	3.214	339730	116845.7	1410.7	167315	10.000
Cyclobenzaprine	4.523	1815787	292.2	158.2	4222914	10.000
Desipramine	4.369	2506367	1696319.5	2113.9	4222914	10.000
Dextromethorphan	4.184	1468387	1951.6	345.2	7828113	10.000
Dextrorphan	3.342	1690760	155.9	410.9	7828113	10.000
Diazepam	4.750	587428	307.9	344.9	6491492	10.000
Dihydrocodeine	2.877	857068	494.8	688.9	3426966	10.000
Diphenhydramine	4.108	6025176	1003.4	494.8	40667634	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.337	1354747	655.1	268.0	17977899	10.000
Doxylamine	3.615	6369371	22370.3	4366.7	7828113	10.000
EDDP	4.014	1523265	585839.5	118.3	3426966	10.000
Estazolam	4.397	2150844	596.1	335078.3	6491492	10.000
Etizolam	4.514	151868	37397.0	553809.5	6491492	10.000
Fentanyl	4.607	198222	108.8	26977.6	12830449	10.000
Flualprazolam	4.346	419982	121206.5	1238.2	6491492	10.000
Flunitrazepam	4.425	914837	1069.3	123464.7	6491492	10.000
Fluoxetine	4.302	1347623	721.4	43.2	2581899	10.000
Flurazepam	4.620	2572404	1136873.3	1430.3	6491492	10.000
Hydrocodone	3.474	910043	215.9	295.1	5576358	10.000
Hydromorphone	2.774	803098	696.7	397.8	167315	10.000
Imipramine	4.568	3300548	650.2	562.9	4222914	10.000
Ketamine	4.110	2103222	1520.4	66.9	14328378	10.000
Lamotrigine	3.449	183228	135.4	56553.7	40667634	10.000
Levamisole	3.330	1862746	3377.1	135.3	7828113	10.000
Levetireacetam	2.325	459752	582.2	1466.9	6039922	10.000
Lorazepam	4.285	27901	31.7	122.5	6491492	10.000
Maprotiline	4.645	446651	1122.2	133.8	4222914	10.000
MDA	2.826	1842820	398.2	239.6	18133544	10.000
MDEA	3.100	2779355	8833.6	506.8	18133544	10.000
MDMA	2.948	3284812	700.1	308.8	18133544	10.000
Meperidine	3.786	1882429	646.2	1507.7	7828113	10.000
Meprobamate	3.437	166698	4471.3	41.5	3009815	10.000
Methadone	4.395	3933525	371.3	260.5	3426966	10.000
Methamphetamine	2.843	6126444	∞	∞	18133544	10.000
Methocarbamol	3.343	144270	3248.1	188.6	3426966	10.000
Methylphenidate	3.543	6287335	200.9	568.5	14328378	10.000
Metoprolol	3.310	504947	1114.3	3624.1	7828113	10.000
Midazolam	4.669	492903	5094.5	205288.3	6491492	10.000
Mirtazapine	4.616	2358303	496228.5	1631.0	7828113	10.000
Mitragynine	4.604	364771	59274.4	409709.4	7828113	10.000
Morphine	2.531	173617	5300.9	1158.1	167315	10.000
Norbuprenorphine	3.851	59592	23388.9	10531.1	167315	10.000
Nordiazepam	4.569	437627	123552.4	128.4	6491492	10.000
Norfentanyl	3.190	4151421	1063.7	342.2	20629991	10.000
Norhydrocodone	2.819	66348	249.2	57.2	5576358	10.000
norketamine	4.019	381766	194.8	4563.7	14328378	10.000
Normeperidine	3.512	1951743	233.7	279.8	40667634	10.000
Noroxycodone	2.710	896536	∞	798440.3	8822161	10.000
Nortriptyline	4.431	872066	377.3	245.7	4222914	10.000
O-desmethyl-tramadol	2.731	4930449	970.9	292.3	40667634	10.000
Olanzapine	4.194	1339204	756694.4	813.4	63766	10.000
Oxazepam	4.367	157563	45.5	29.8	745590	10.000
Oxycodone	3.089	1773141	310.9	47.7	8822161	10.000
Oxymorphone	2.376	1029763	745.1	450.4	167315	10.000
Paroxetine	4.361	289642	898.7	1032.8	2581899	10.000
Phenazepam	4.514	581689	721.5	1867.1	6491492	10.000
Phencyclidine	3.894	3419684	83716.9	2652.2	7828113	10.000
Phentermine	2.979	45533	179.5	∞	14328378	10.000
Phenytoin	3.955	103499	189.8	218.4	63766	10.000
Promethazine	4.705	4091876	5462.8	262.1	40667634	10.000
Pseudoephedrine	2.492	50192935	17541.9	332.6	18133544	10.000
Quetiapine	4.758	3077175	333922.6	815189.2	29863642	10.000
Sertraline	4.657	574004	2045.1	287.4	2581899	10.000
Sufentanil	4.986	160318	52916.8	319.8	20629991	10.000
Tapentadol	3.344	3026394	1380.1	502.3	3426966	10.000
Temazepam	4.551	1230044	983.3	30.7	6491492	10.000
Tramadol	3.357	4761934	6379.3	30.6	40667634	10.000
Trazodone	4.926	3565086	1137937.9	733.7	17977899	10.000

AM #25 Multi-Drug Screen Results

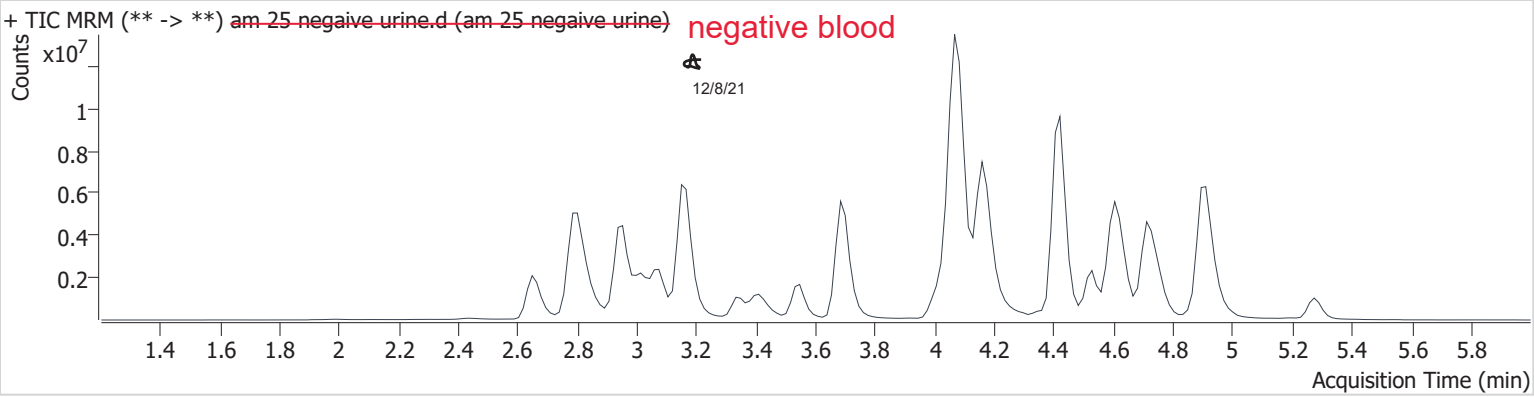
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.767	4103730	5308.5	152.6	2581899	10.000
Zaleplon	4.196	817804	357963.8	675.3	29863642	10.000
Zolpidem	4.443	5918504	5684.5	1517.2	29863642	10.000
Zopiclone	4.435	521985	349583.2	373460.8	2758727	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\mds.batch.bin
Calibration Last Update 12/7/2021 9:21:25 AM

Instrument	69679	**Data File**	am 25 negaive urine.d
Type	Sample	**Sample**	am 25 ~~negaive urine~~ Negative blood
Acq. Method	mds713.m	**Operator**	Anne Nord 12/08/21
Sample Position	P2-C1	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/6/2021 12:38:58 PM		
Sample Info.			

Sample Chromatogram

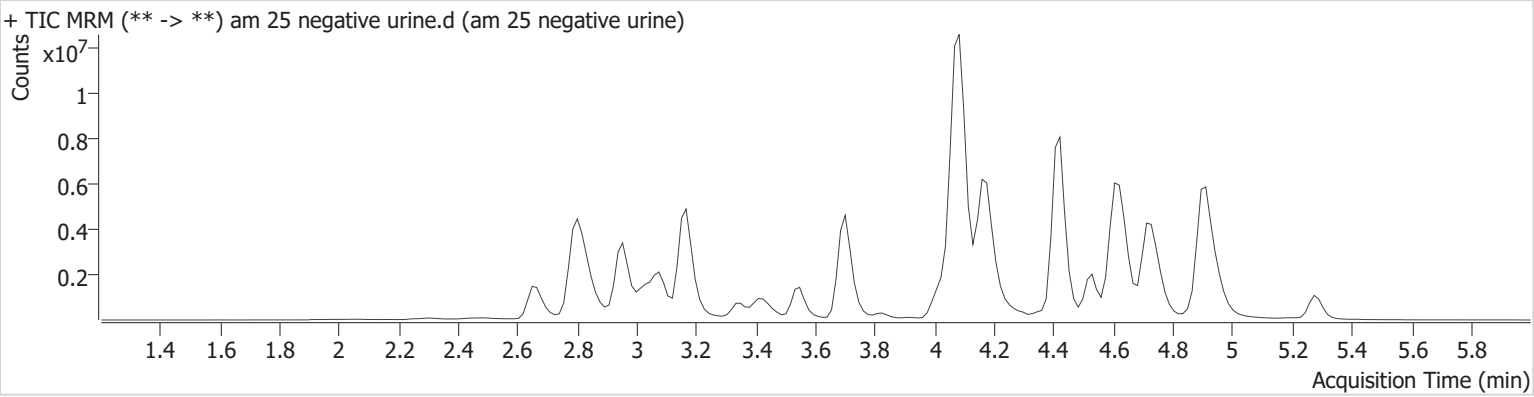


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\mds.batch.bin
Calibration Last Update 12/7/2021 9:21:25 AM

Instrument	69679	**Data File**	am 25 negative urine.d
Type	Sample	**Sample**	am 25 negative urine
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-F9	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/6/2021 2:46:11 PM		
Sample Info.			

Sample Chromatogram

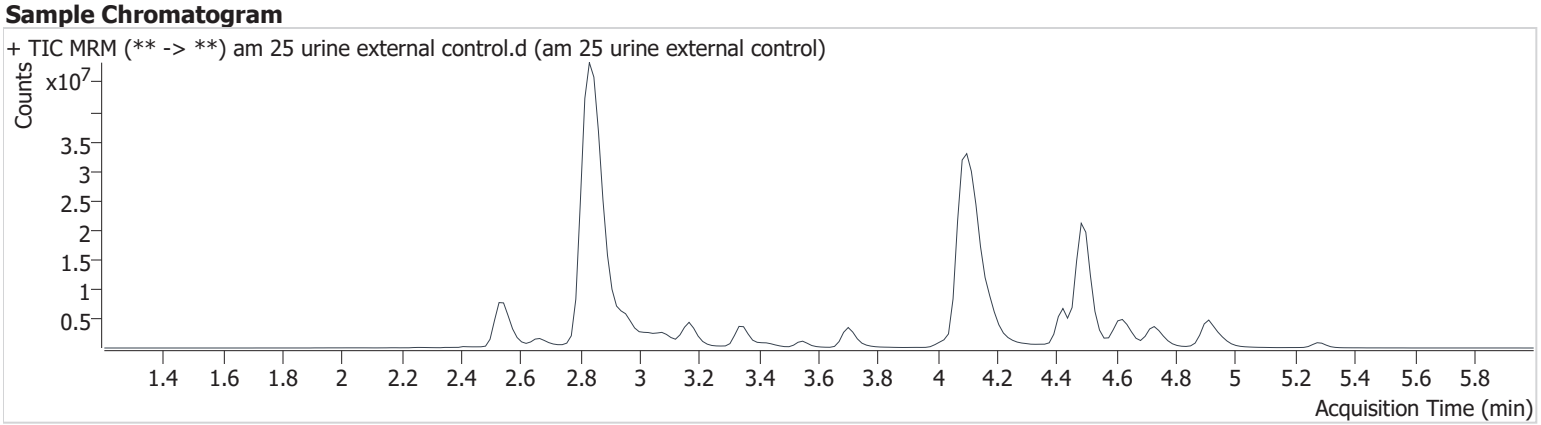


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\mds.batch.bin
Calibration Last Update 12/7/2021 9:21:25 AM

Instrument	69679	**Data File**	am 25 urine external control.d
Type	Sample	**Sample**	am 25 urine external control
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-E9	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	12/6/2021 3:06:13 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.488	37847422	480.5	35727.6	3562736	569.371
Diphenhydramine	4.124	86137613	159001.5	30701.2	25261434	230.152
Methamphetamine	2.843	81907371	∞	∞	9915047	244.513
Methocarbamol	3.343	5517915	5298.0	31036.9	2363148	554.647
Morphine	2.531	9127955	∞	26926.8	129559	678.966

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

Extraction Date: 12/6/21 Analyst: Anne Nord

Plate lot#: 210609 Plate Expiration: 12-9-21

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:** 83121 **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	2600-1	2561-1		
b	cal 2	2508-1		2618-1		
c	cal 3	2521-1 *	2608-1	2605-1		
d	cal 4	2541-1 *	2624-1	2521-1		
e	Cal 5	2554-1 *	p2012-1953-c1	2541-1		
f	cal 6	2555-1	neg urine	2554-1		
g	cal 7	2582-1	urine control			
h	Internal control	2599-1	2507-1			

C2021-____-_

* well clogged added additional sample in a new well, this well was not extacted

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 8/26/21 Exp: 8/26/22 lot 82621 by AMN

Drug	lot	expiration
C-THC	FE04151901	6/1/2024
THC-OH	FE06152002	6/1/2025
THC	FE04222001	5/1/2025

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**

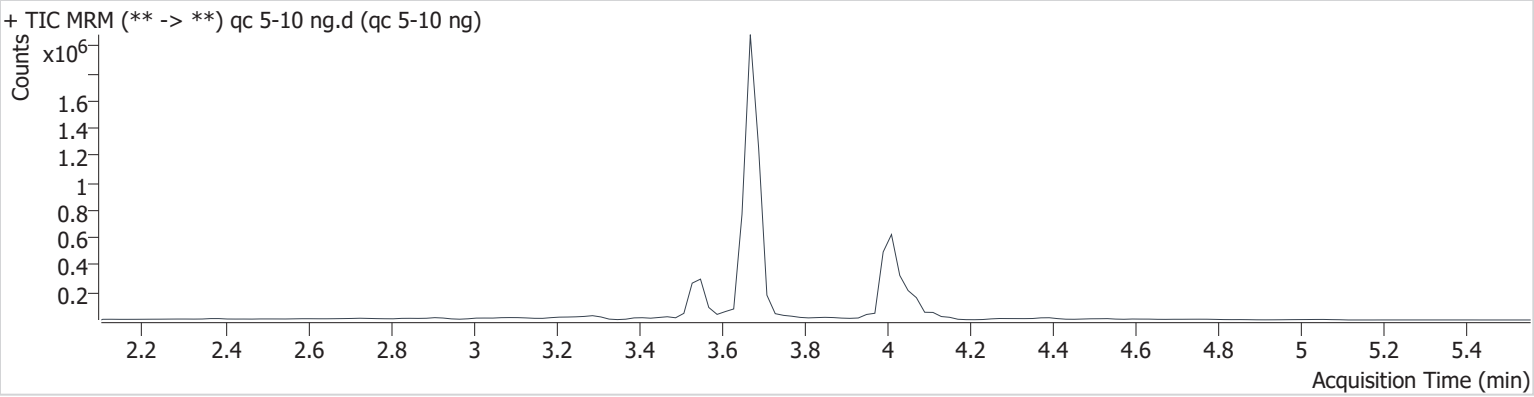
ppd 8/26/21 Exp 8/26/22 neg urine lot 5621	lot u82621	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	last used 11/1/21
ppd 11/2/21 Exp 8/26/22 neg urine lot 83121	lot u11221	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 4:13:15 PM		
Sample Info.			

Sample Chromatogram



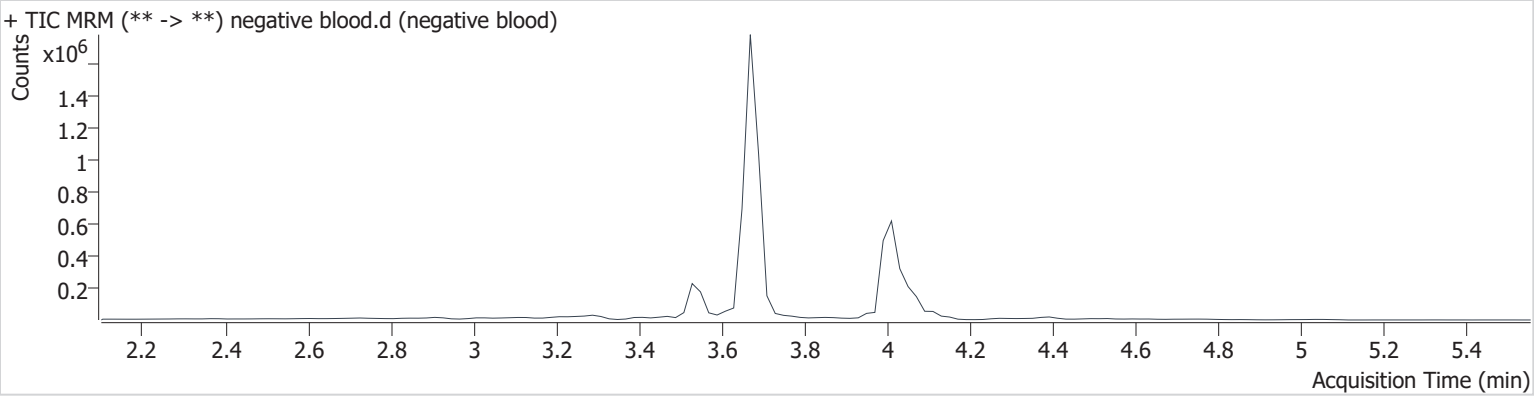
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	10978	278494	4.719 ng/ml
THC-COOH	3.549	183502	534003	17.203 ng/ml
THC-OH	3.679	40165	4869891	4.904 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 4:19:52 PM		
Sample Info.			

Sample Chromatogram

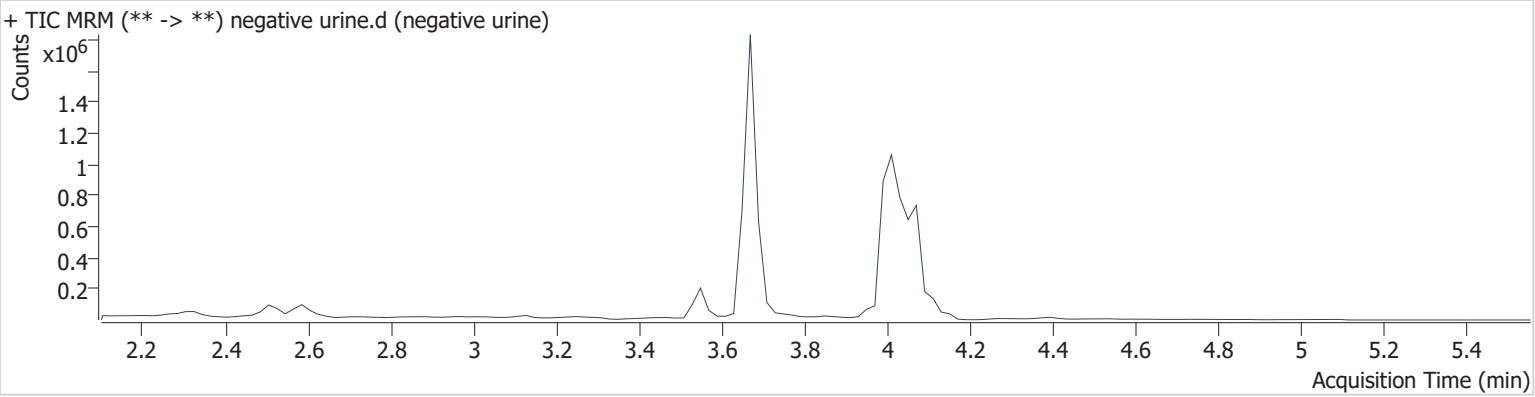


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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-F3	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/6/2021 5:39:05 PM		
Sample Info.			

Sample Chromatogram

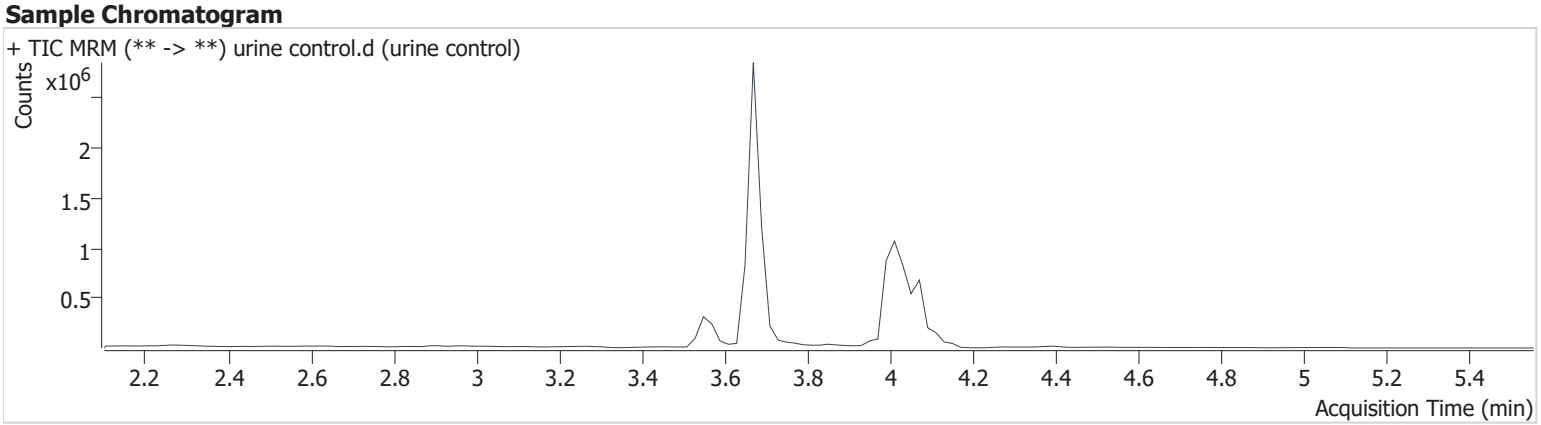


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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-G3	**Comment**	
Injection Volume	5		
Acq. Date-Time	12/6/2021 5:45:42 PM		
Sample Info.			

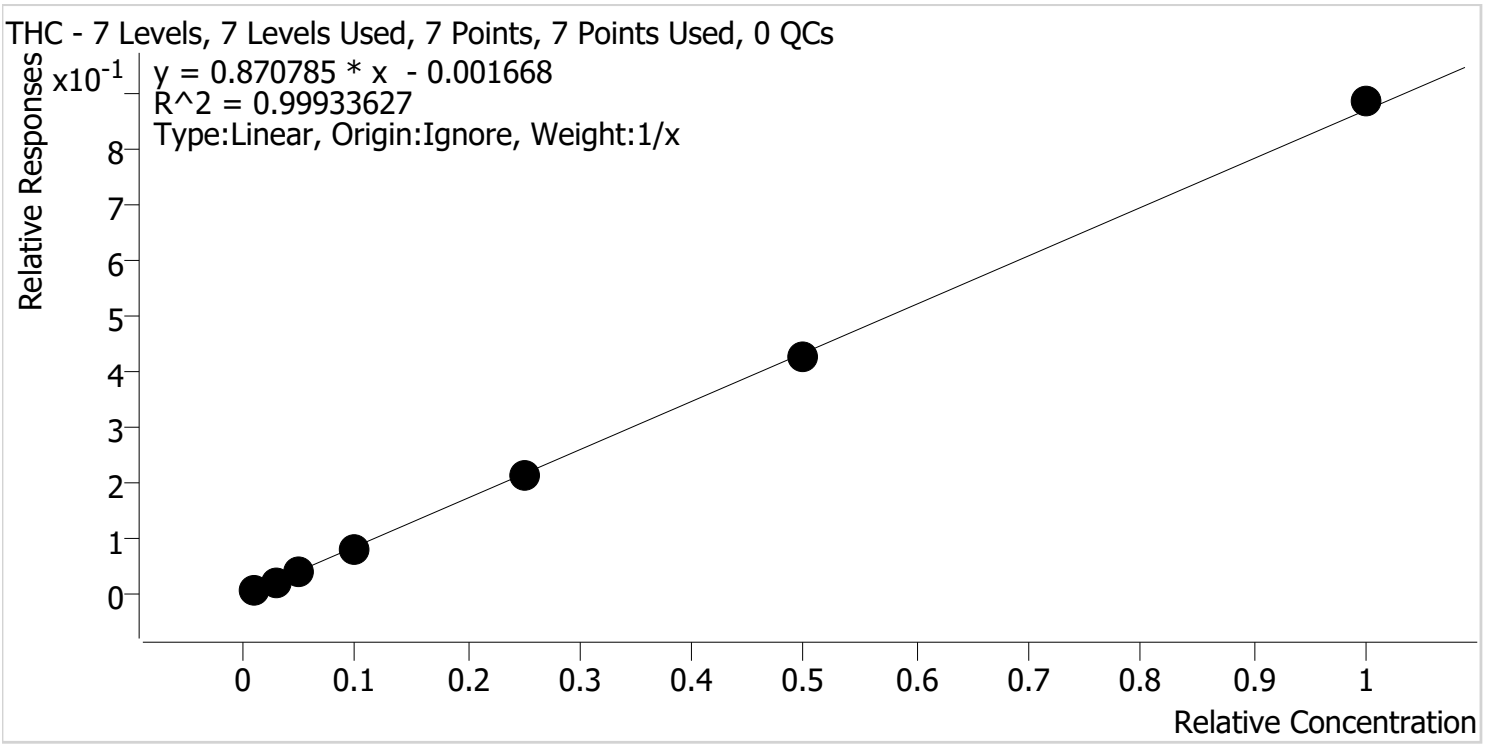
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	102403	1121433	10.678 ng/ml
THC-COOH	3.569	307349	368234	45.554 ng/ml
THC-OH	3.679	269510	3800934	40.807 ng/ml

Compound Calibration Report

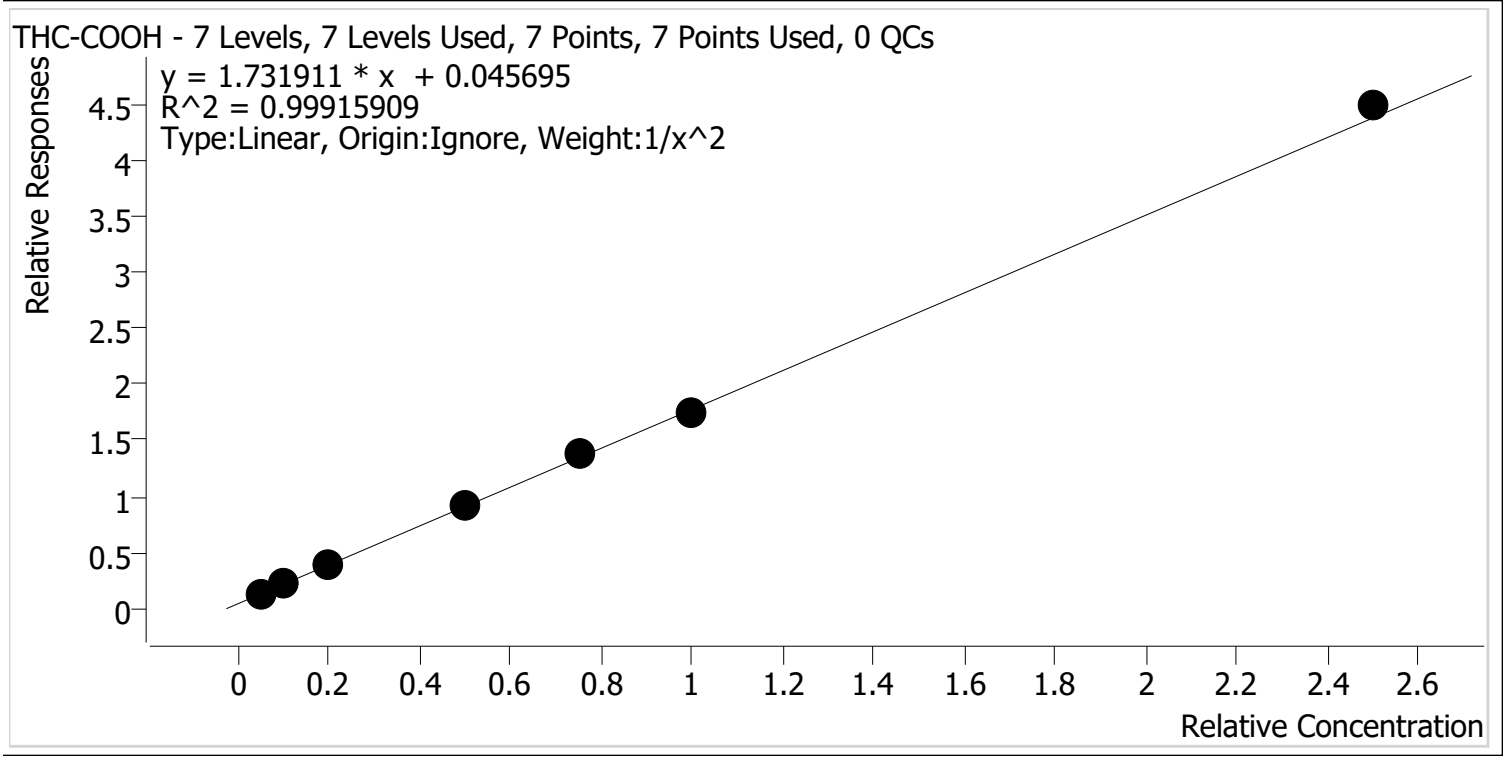
Batch results	D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Last Cal. Update	12/7/2021 8:34 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	114.7
cal 2	2	✔	3.0	2.8	92.5
cal 3	3	✔	5.0	4.9	98.8
cal 4	4	✔	10.0	9.5	95.2
cal 5	5	✔	25.0	24.7	98.8
cal-6	6	✔	50.0	49.2	98.4
cal-7	7	✔	100.0	101.7	101.7

Compound Calibration Report

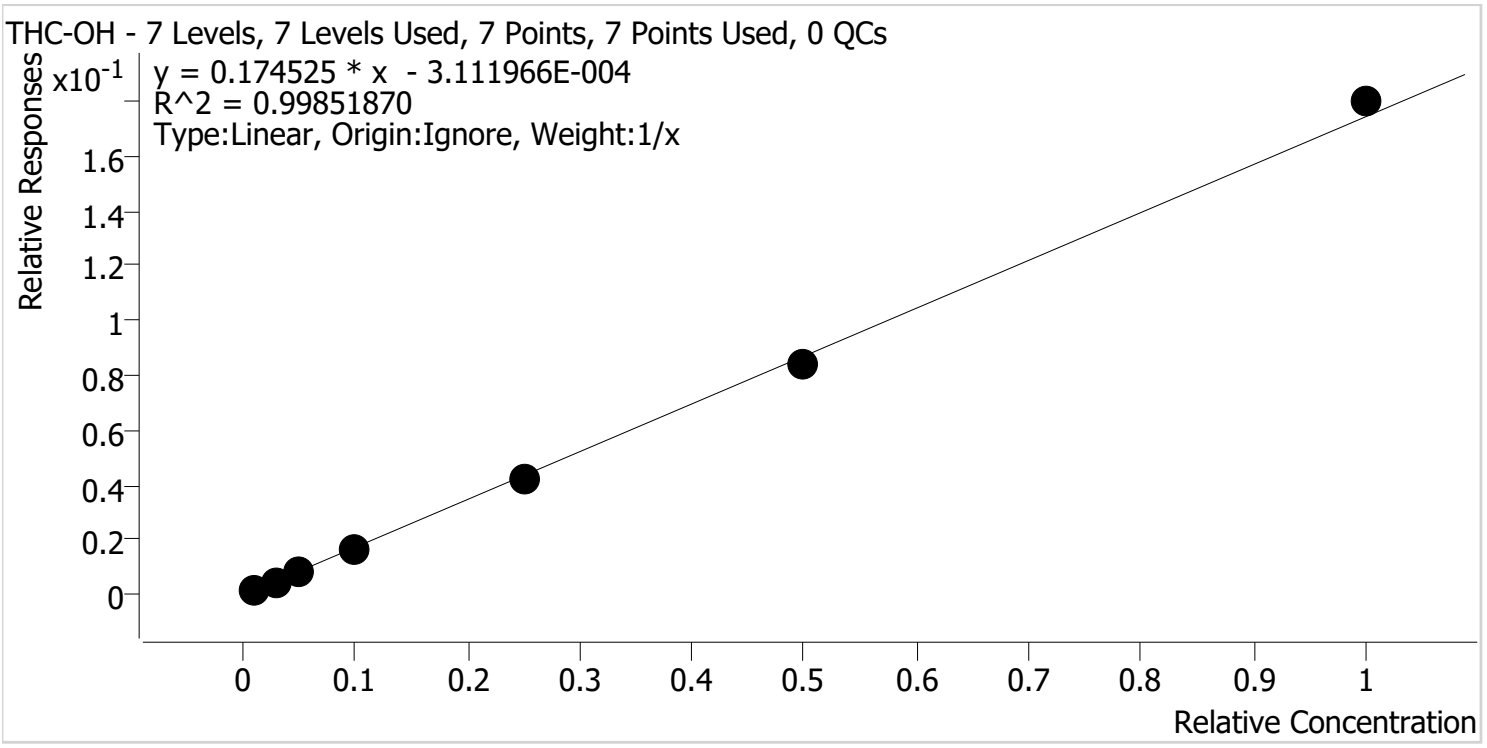
Batch results	D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Last Cal. Update	12/7/2021 8:34 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.1	101.6
cal 2	2	✔	10.0	9.8	97.8
cal 3	3	✔	20.0	19.5	97.4
cal 4	4	✔	50.0	50.0	99.9
cal 5	5	✔	75.0	77.2	102.9
cal-6	6	✔	100.0	97.8	97.8
cal-7	7	✔	250.0	256.3	102.5

Compound Calibration Report

Batch results	D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Last Cal. Update	12/7/2021 8:34 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



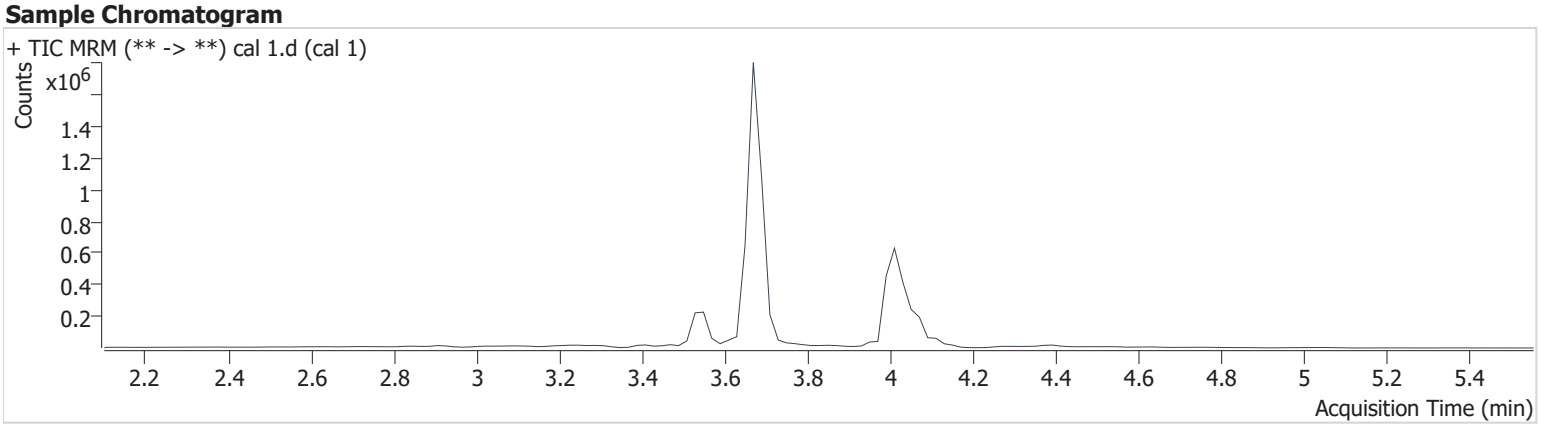
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.2	115.9
cal 2	2	✔	3.0	2.9	97.6
cal 3	3	✔	5.0	4.8	95.6
cal 4	4	✔	10.0	9.5	94.6
cal 5	5	✔	25.0	24.1	96.2
cal-6	6	✔	50.0	48.5	97.0
cal-7	7	✔	100.0	103.1	103.1

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 3:27:00 PM		
Sample Info.			

Sample Chromatogram



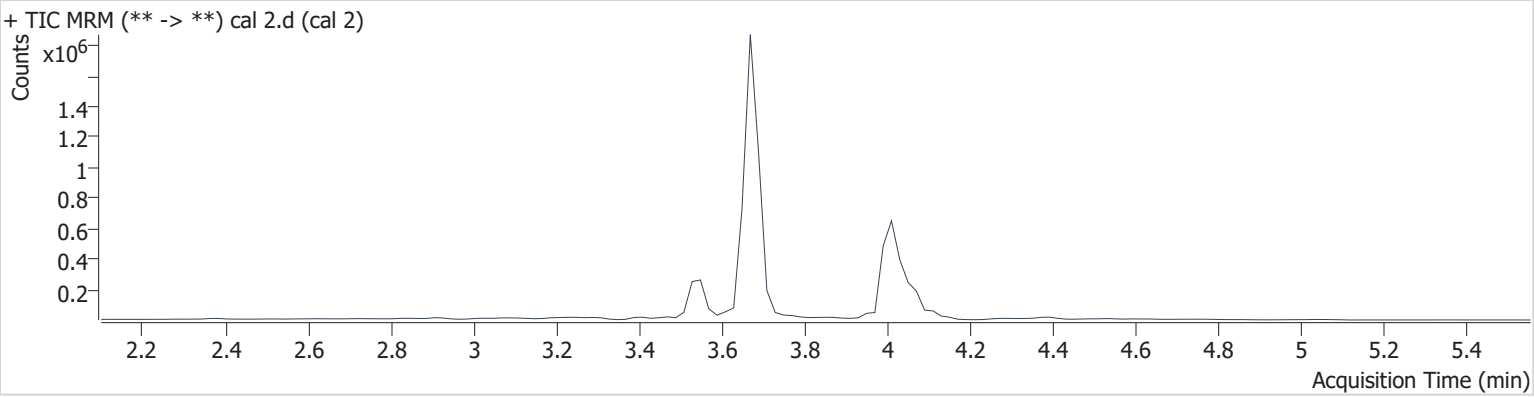
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	2690	323530	1.147 ng/ml **Low**
THC-COOH	3.549	67704	506418	5.081 ng/ml **Low**
THC-OH	3.679	7770	4540275	1.159 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 3:33:39 PM		
Sample Info.			

Sample Chromatogram



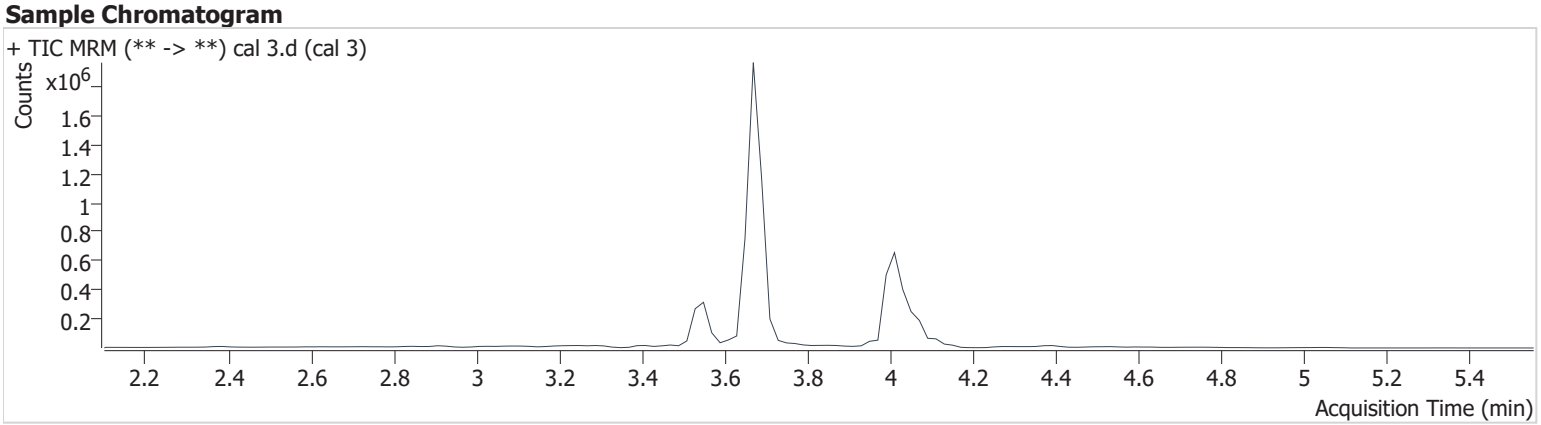
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	7273	323468	2.774 ng/ml **Low**
THC-COOH	3.549	118026	548825	9.779 ng/ml **Low**
THC-OH	3.679	22037	4589946	2.929 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 3:40:15 PM		
Sample Info.			

Sample Chromatogram



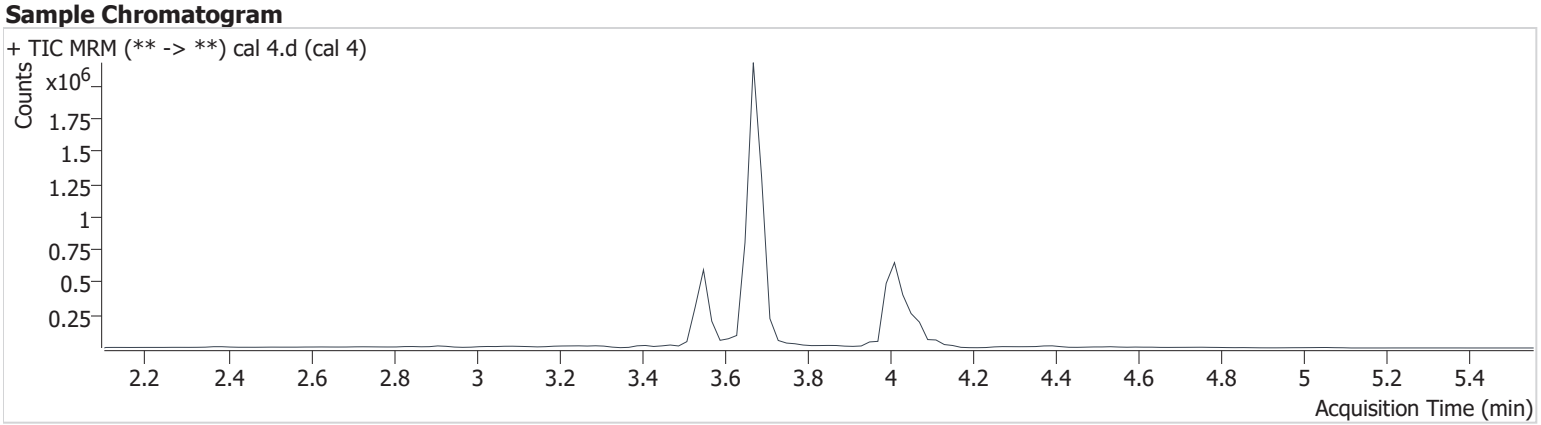
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	13061	315997	4.938 ng/ml
THC-COOH	3.549	214705	560248	19.489 ng/ml
THC-OH	3.679	37513	4672687	4.778 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 3:46:51 PM		
Sample Info.			

Sample Chromatogram



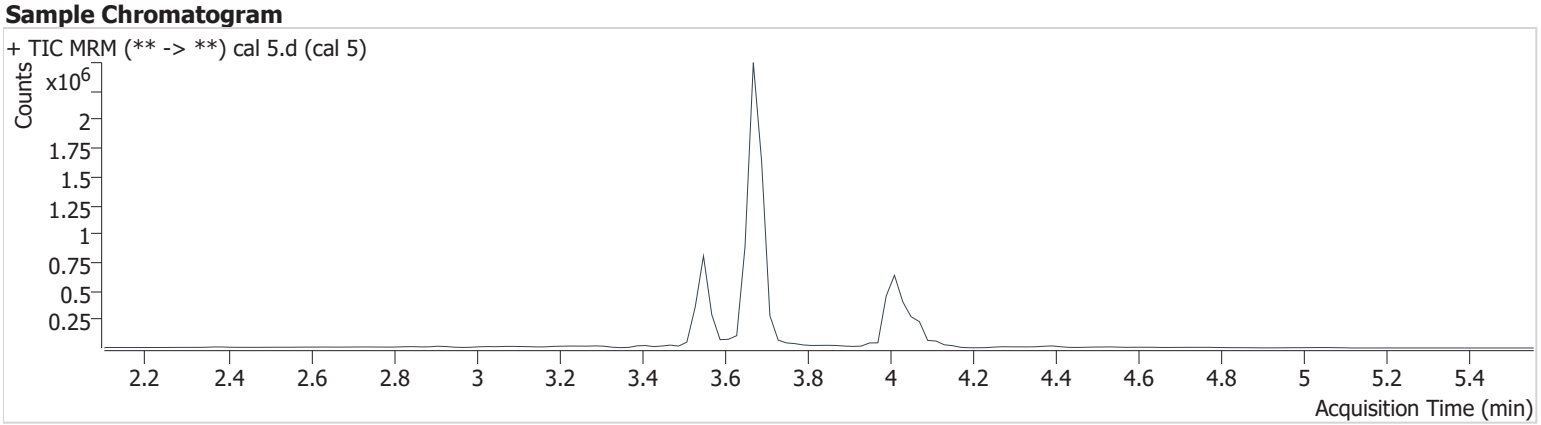
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	27702	340926	9.523 ng/ml
THC-COOH	3.549	500457	549252	49.972 ng/ml
THC-OH	3.679	77484	4784490	9.458 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 3:53:27 PM		
Sample Info.			

Sample Chromatogram



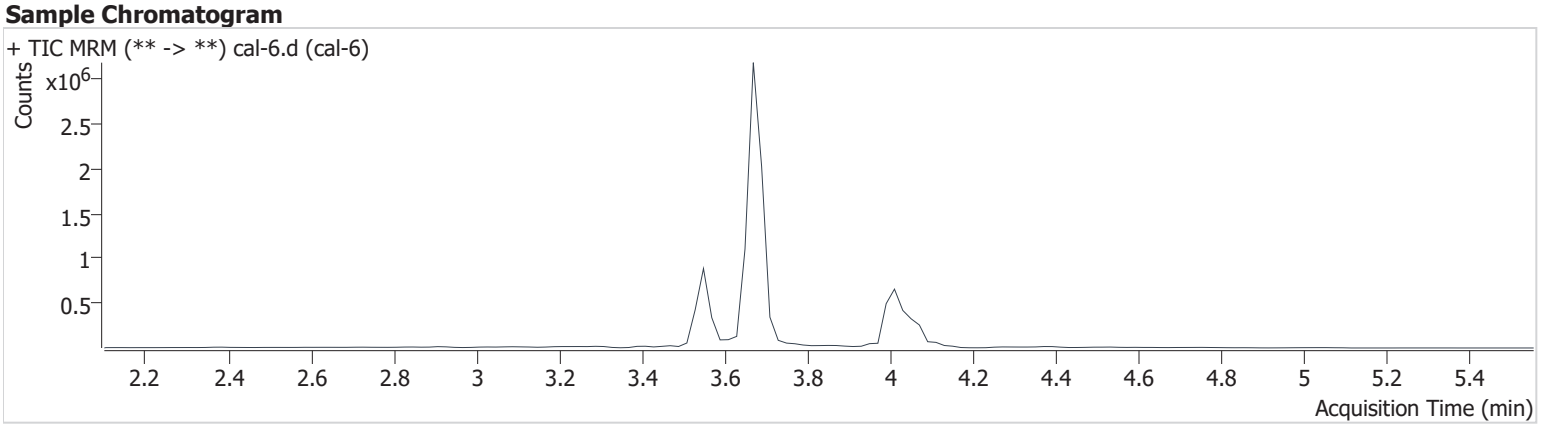
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	72187	338300	24.696 ng/ml
THC-COOH	3.549	752317	544216	77.180 ng/ml
THC-OH	3.679	194121	4659065	24.052 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 4:00:03 PM		
Sample Info.			

Sample Chromatogram



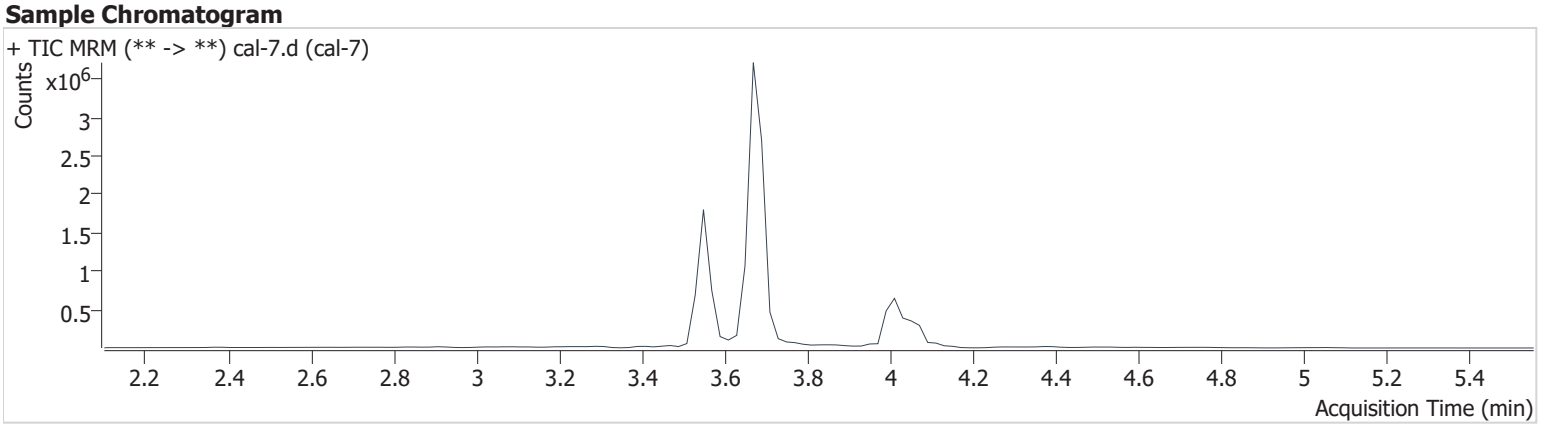
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	144513	338786	49.177 ng/ml
THC-COOH	3.549	970180	557944	97.762 ng/ml
THC-OH	3.679	384006	4553764	48.497 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\am 25-26\120621\QuantResults\cann.batch.bin
Calibration Last Update 12/7/2021 8:34:34 AM

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	12/6/2021 4:06:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	264176	298736	101.745 ng/ml
THC-COOH	3.549	2286690	509820	256.341 ng/ml
THC-OH	3.679	657455	3659205	103.127 ng/ml