Worklist: 5504

REVIEWED
By Britany Wylie at 6:32 pm, Jan 12, 2022

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION	
C2021-2770	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2790		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2793		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2796		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2021-2798		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2021-2799		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0006		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0009		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0012		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0032		UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2022-0040		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0044		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0045		BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0050		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: 1/11/22 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:
6-Mam not evaluated, interfernce in all samples.

	1	2	3	4	5	6	7	8	9	10	11	12
A					c2021-2793-1	c2022-0050-1						
B					c2021-2798-1	c2022-0044-1					c2021-2770-3	
C					c2021-2799-1							
D					c2022-0006-1						c2022-0032-1	
E					c2022-0009-1						c2021-2796-1	
F					c2022-0012-1						c2021-2790-1	
G				negative blood	c2022-0040-1						positive control urine	
H				blood positive control	c2022-0045-1						neg urine	cal 1

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)

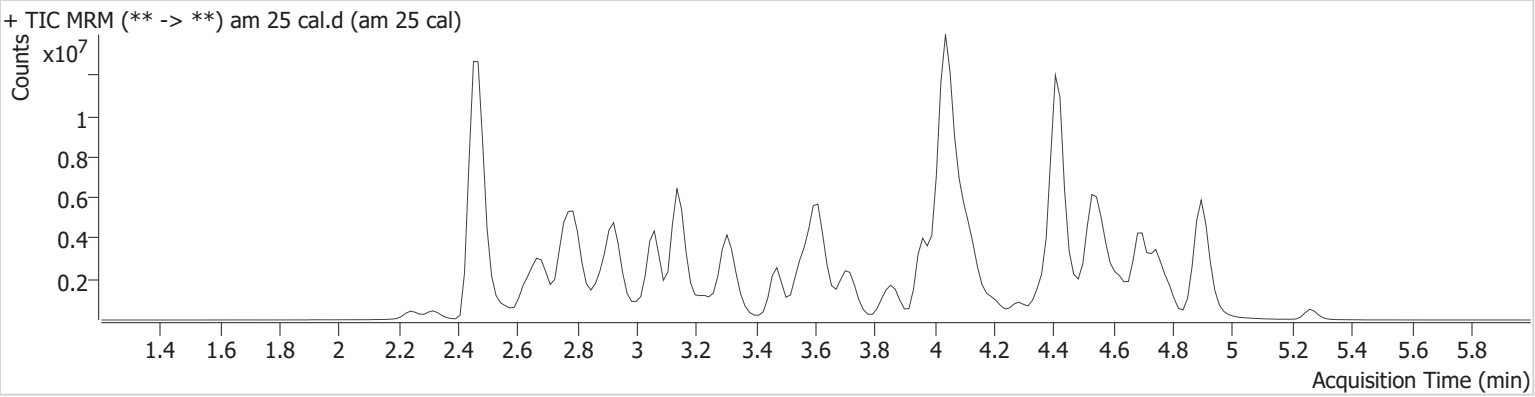
ppp 6/25/21, exp 6/25/22 lot b62522 neg blood 21D52496 by AMN

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\mds.batch.bin
Calibration Last Update 1/11/2022 4:27:56 PM

Instrument	69679	**Data File**	am 25 cal.d
Type	Cal	**Sample**	am 25 cal
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-H12	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/11/2022 11:43:22 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
7-aminoclonazepam	3.354	159608	113.2	2477.6	1270652	10.000
7-aminoflunitrazepam	3.583	581978	338.7	292.3	1270652	10.000
Acetyl Fentanyl	4.316	162009	209.5	34144.3	14961238	10.000
Acetyl Norfentanyl	2.671	164964	4400.6	355.2	14961238	10.000
a-hydroxyalprazolam	4.377	55089	2808.0	20572.3	1270652	10.000
alpha-hydroxymidazolam	4.468	685229	407.8	153.3	1270652	10.000
alpha-PHP	4.032	1466464	1290.7	1460.4	5123717	10.000
alpha-PVP	3.712	2109060	1099.8	479.0	5123717	10.000
Alprazolam	4.488	817800	2123.6	409.2	3809385	10.000
Amitriptyline	4.614	458498	125.8	356.5	2421003	10.000
Amphetamine	2.677	1863244	973.4	495.6	5123717	10.000
Benzoylecgonine	3.122	52860	500.0	70.9	94395	10.000
Brompheniramine	4.086	40252	129.2	49.8	29691745	10.000
Buprenorphine	5.272	50742	34817.4	108302.9	1284646	10.000
Bupropion	4.018	2052021	512.9	1968.5	8336923	10.000
Carbamazepine	4.064	2920769	274.4	1567.4	31144	10.000
Carisoprodol	4.046	397066	179419.9	48.8	2177468	10.000
Chlordiazepoxide	4.612	270312	150802.4	126.0	3809385	10.000
Chlorpheniramine	3.967	2716948	3519.0	∞	29691745	10.000
Citalopram	4.054	1344819	226.8	646.2	29691745	10.000
Clomimpramine	4.869	676051	1775.5	1637.6	4208291	10.000
Clonazepam	4.301	123153	370.3	18085.5	3809385	10.000
Clonazolam	4.220	358675	107.4	65102.5	3809385	10.000
Cocaethylene	3.840	1925944	892602.4	2215.1	29691745	10.000
Cocaine	3.642	2669120	741.4	270.9	13939012	10.000
Codeine	3.015	249776	1267.6	1314.3	119254	10.000
Cyclobenzaprine	4.477	1027733	327.3	36.5	2421003	10.000
Desipramine	4.369	1478783	84077.7	817.2	2421003	10.000
Dextromethorphan	4.137	893896	373.2	667.2	4747784	10.000
Dextrorphan	3.296	1356173	323.3	236.8	4747784	10.000
Diazepam	4.735	513186	5625.6	394.3	3809385	10.000
Dihydrocodeine	2.740	614526	483.6	101.8	1858901	10.000
Diphenhydramine	4.062	4001864	314.6	371.4	29691745	10.000
Doxepin	4.275	796829	345.9	65.6	12011963	10.000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxylamine	3.585	4526295	3102.5	253.8	4747784	10.000
EDDP	3.998	847099	227.5	156509.4	1858901	10.000
Estazolam	4.397	1456326	345.6	118.5	3809385	10.000
Etizolam	4.514	99163	63200.0	319032.0	3809385	10.000
Fentanyl	4.546	107508	85.6	∞	7441278	10.000
Flualprazolam	4.346	312997	304.4	700.2	3809385	10.000
Flunitrazepam	4.425	586110	228.0	48861.3	3809385	10.000
Fluoxetine	4.287	653173	217012.6	31384.4	1184778	10.000
Flurazepam	4.558	1667266	591166.9	135818.7	3809385	10.000
Hydrocodone	3.290	631157	267.6	122.8	4221484	10.000
Hydromorphone	2.561	627507	197.1	154.0	119254	10.000
Imipramine	4.522	1943218	1354.6	310.5	2421003	10.000
Ketamine	4.018	1598367	668.9	88.3	9792632	10.000
Lamotrigine	3.434	122065	415.9	330.6	29691745	10.000
Levamisole	3.146	1269470	19906.7	216.1	4747784	10.000
Levetireacetam	2.325	288648	107.4	1120.7	4208291	10.000
Lorazepam	4.285	17857	∞	21.3	3809385	10.000
Maprotiline	4.614	251216	326.7	192.3	2421003	10.000
MDA	2.796	1343944	4441.2	345.0	13611764	10.000
MDEA	3.069	2028717	1614.5	408.1	13611764	10.000
MDMA	2.902	2448292	793.9	367.2	13611764	10.000
Meperidine	3.694	1237320	419.6	406.6	4747784	10.000
Meprobamate	3.437	108451	433.5	186.6	2177468	10.000
Methadone	4.379	2229213	466.1	225.8	1858901	10.000
Methamphetamine	2.797	4339192	7833.2	5483.9	13611764	10.000
Methocarbamol	3.343	79665	24665.5	915.6	1858901	10.000
Methylphenidate	3.481	4608170	1376.7	1435.6	9792632	10.000
Metoprolol	3.295	367430	561.5	4502.2	4747784	10.000
Midazolam	4.669	294605	3934.7	163417.0	3809385	10.000
Mirtazapine	4.570	1772726	1173.7	2013.2	4747784	10.000
Mitragynine	4.542	209618	69434.3	236368.9	4747784	10.000
Morphine	2.334	153327	∞	786.8	119254	10.000
Norbuprenorphine	3.805	33513	15960.8	12843.6	119254	10.000
Nordiazepam	4.569	200044	231.9	20970.9	3809385	10.000
Norfentanyl	3.160	3056196	867.3	897.0	14961238	10.000
Norhydrocodone	2.758	34769	23.3	2730.1	4221484	10.000
norketamine	3.973	283411	184.6	801078.2	9792632	10.000
Normeperidine	3.482	1384909	8755.1	254.0	29691745	10.000
Noroxycodone	2.679	669338	∞	325.2	6206040	10.000
Nortriptyline	4.416	440852	828531.5	290.5	2421003	10.000
O-desmethyl-tramadol	2.700	3643263	4279.9	456.4	29691745	10.000
Olanzapine	4.118	640018	2689.2	392.3	31144	10.000
Oxazepam	4.367	96027	51.0	25.7	474480	10.000
Oxycodone	2.922	1233080	440.6	369.2	6206040	10.000
Oxymorphone	2.241	770868	116.3	183.6	119254	10.000
Paroxetine	4.346	128315	604.6	682.9	1184778	10.000
Phenazepam	4.514	274670	54543.8	158882.4	3809385	10.000
Phencyclidine	3.879	2237457	606727.0	1599.2	4747784	10.000
Phentermine	2.949	32046	260.3	∞	9792632	10.000
Phenytoin	3.955	61149	203.4	30.8	31144	10.000
Promethazine	4.644	2337552	458.0	656.7	29691745	10.000
Pseudoephedrine	2.477	41222178	∞	33881.9	13611764	10.000
Quetiapine	4.743	2553461	1068.5	1148.2	23772439	10.000
Sertraline	4.626	231226	1070.1	6162.6	1184778	10.000
Sufentanil	4.955	87327	25157.1	703.5	14961238	10.000
Tapentadol	3.314	2437709	684.7	493.8	1858901	10.000
Temazepam	4.535	757998	247.8	60.3	3809385	10.000
Tramadol	3.311	3747006	1862.8	38.1	29691745	10.000
Trazodone	4.911	2606929	646.8	1614.9	12011963	10.000
Venlafaxine	3.721	3003281	931.7	248.6	1184778	10.000

AM #25 Multi-Drug Screen Results

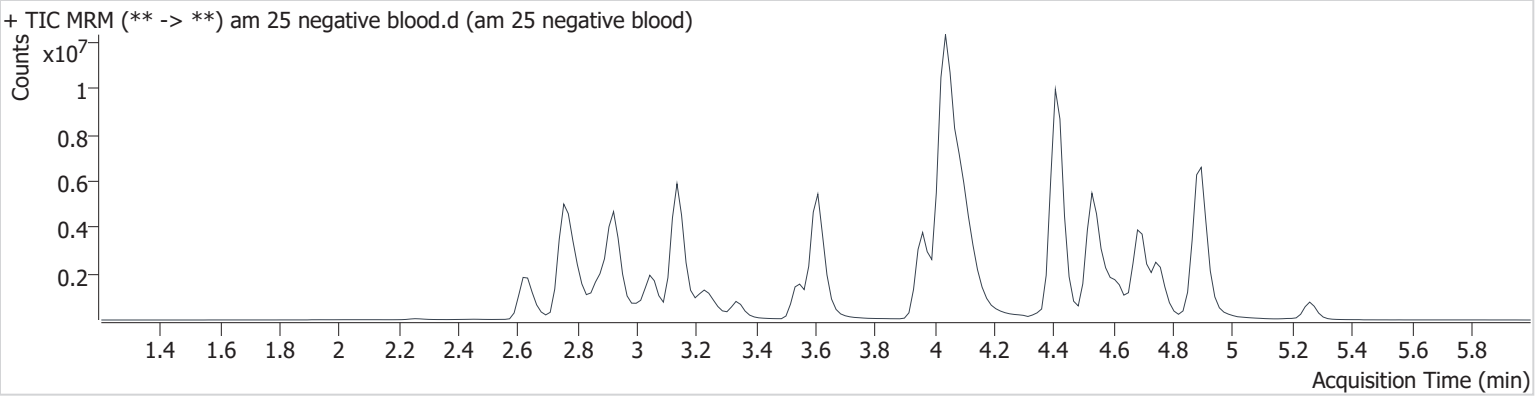
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Zaleplon	4.196	568959	3287.2	98729.2	23772439	10.000
Zolpidem	4.427	4382548	1556.4	1133.4	23772439	10.000
Zopiclone	4.435	385594	570.4	934.6	2065088	10.000

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\mds.batch.bin
Calibration Last Update 1/11/2022 4:27:56 PM

Instrument	69679	**Data File**	am 25 negative blood.d
Type	Sample	**Sample**	am 25 negative blood
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-G4	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/11/2022 11:50:05 AM		
Sample Info.			

Sample Chromatogram

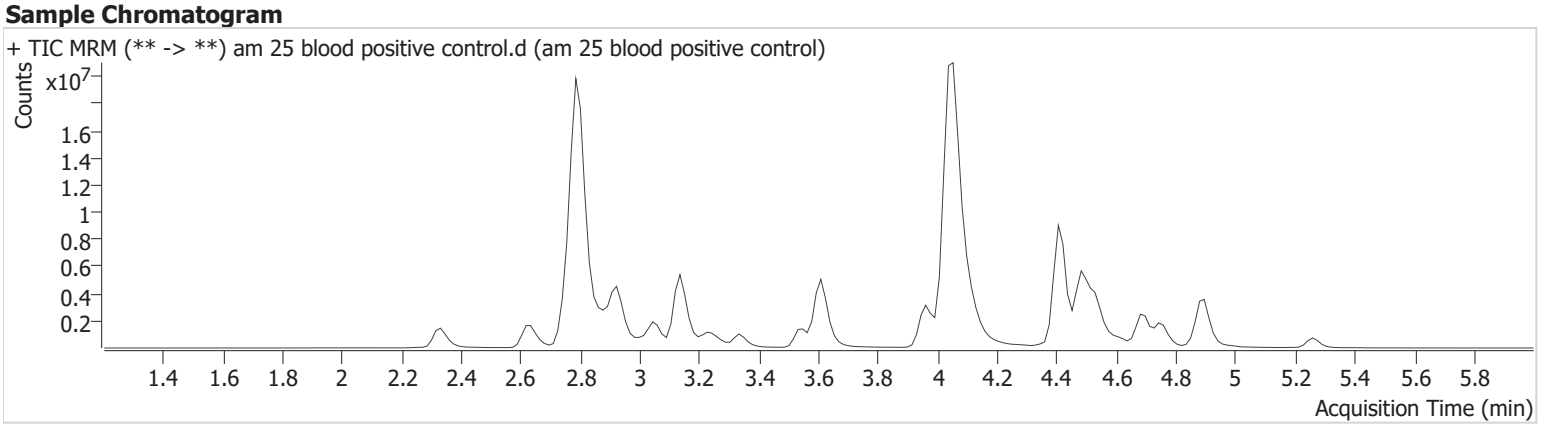


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\mds.batch.bin
Calibration Last Update 1/11/2022 4:27:56 PM

Instrument	69679	**Data File**	am 25 blood positive control.d
Type	Sample	**Sample**	am 25 blood positive control
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-H4	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/11/2022 11:56:47 AM		
Sample Info.			

Sample Chromatogram



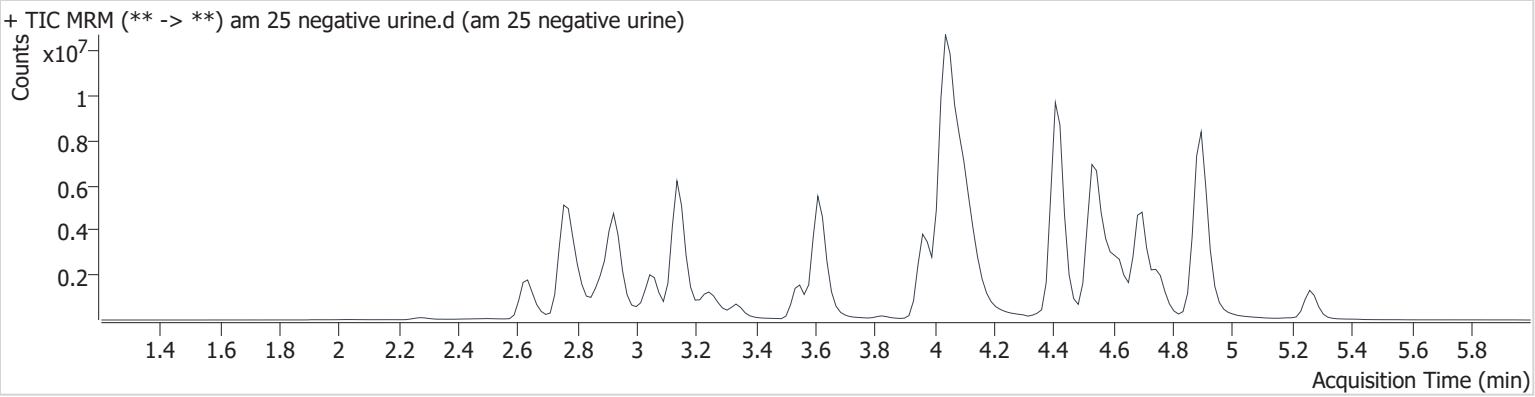
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.488	8555512	3998.0	2214.3	4514107	88.284
Diphenhydramine	4.062	33031436	∞	2525.4	29934321	81.871
Methamphetamine	2.797	30403722	∞	∞	15188041	62.796
Methocarbamol	3.343	721004	2009.7	5021.2	1885093	89.247
Morphine	2.334	1418665	5086.1	10436.3	132633	83.192

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\mds.batch.bin
Calibration Last Update 1/11/2022 4:27:56 PM

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-H11	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/11/2022 1:10:23 PM		
Sample Info.			

Sample Chromatogram

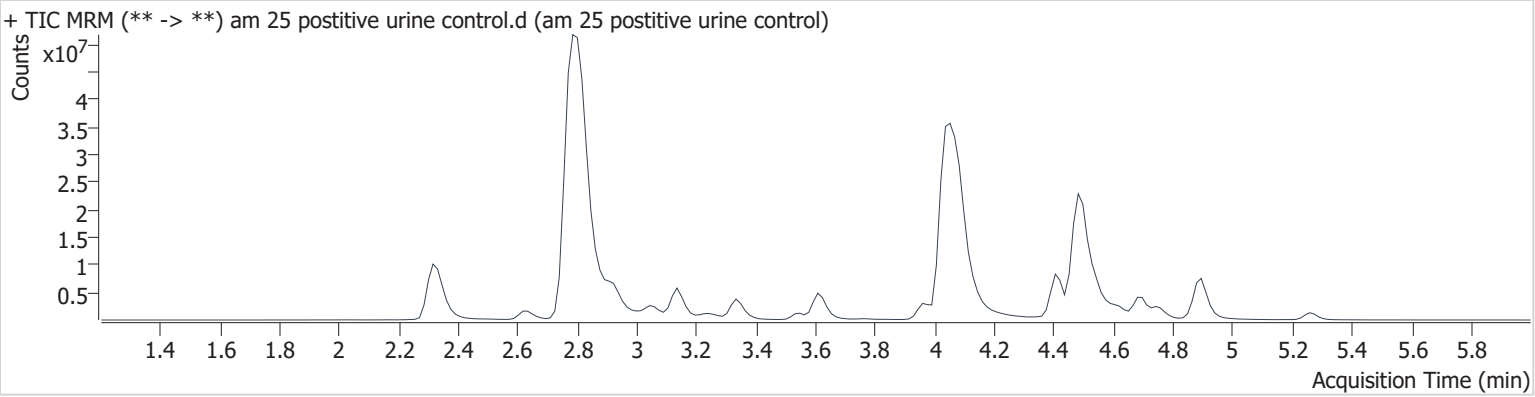


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\mds.batch.bin
Calibration Last Update 1/11/2022 4:27:56 PM

Instrument	69679	**Data File**	am 25 postitive urine control.d
Type	Sample	**Sample**	am 25 postitive urine control
Acq. Method	mds713.m	**Operator**	Anne Nord
Sample Position	P2-G11	**Comment**	
Injection Volume	2.5		
Acq. Date-Time	1/11/2022 1:17:04 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.488	41196423	∞	43175.7	3418445	561.356
Diphenhydramine	4.062	93928852	39606.7	42436.0	29477995	236.415
Methamphetamine	2.830	92485121	60548.5	∞	13445431	215.776
Methocarbamol	3.343	5268002	2172.6	12738.7	2484233	494.812
Morphine	2.319	11238672	∞	5879.9	150877	579.357

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

Extraction Date: 1/11/22 Analyst: Anne Nord

Plate lot#: 210609 Plate retest date: 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	c2022-0040-1	c2021-2796-1		
b	cal 2	blood external control	c2022-0044-1	c2022-0032-1		
c	cal 3	c2021-2793-1*	c2022-0045-1	c2021-2793-1		
d	cal 4	c2021-2798-1	c2022-0050-1			
e	Cal 5	c2021-2799-1	negative urine			
f	cal 6	c2022-0006-1	urine external control			
g	cal 7	c2022-0009-1	c2021-2770-3			
h	Internal control	c2022-0012-1	c2027-2790-1			

* well clogged took a new aliquot

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 in 9900 ul blood

ppd 12/27/21 exp 8/26/22 blood lot 21D52496	lot b122721	Concentration 7.5 ng/ml THC, 15 ng/ml C-THC, THC-OH	by amn

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

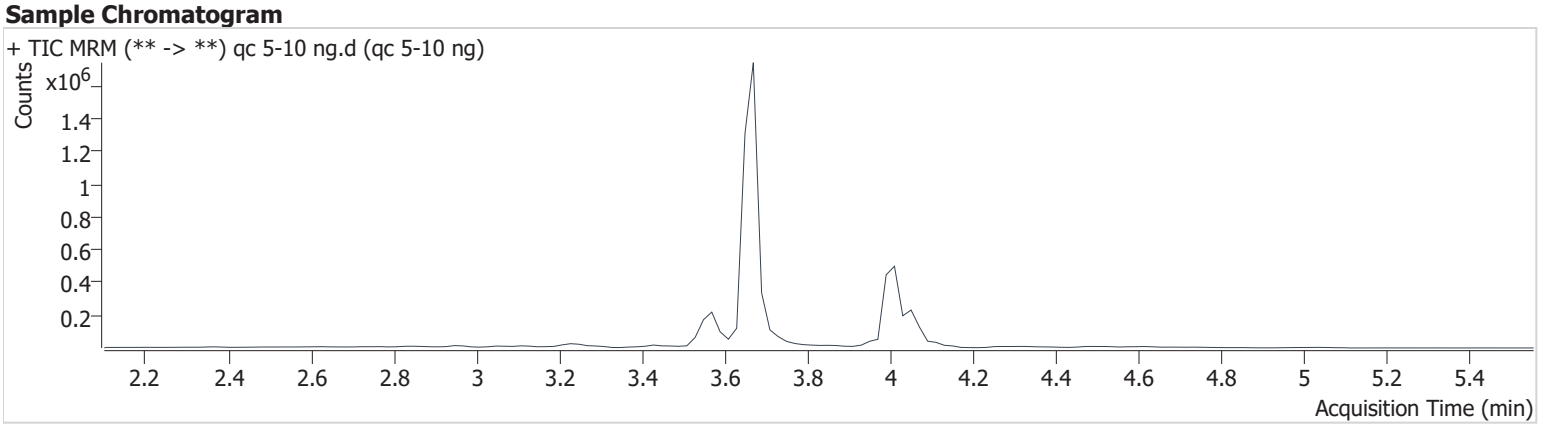
ppd 8/26/21 Exp 8/26/22 neg urine lot 5621	lot u82621	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	last used 11/1/21
ppd 11/2/21 Exp 8/26/22 neg urine lot 83121	lot u11221	Concentration 30 ng/ml THC, and 60 ng/ml C-THC, THC-OH	by amn	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 PM

Instrument	69679	**Data File**	qc 5-10 ng.d
Type	QC	**Sample**	qc 5-10 ng
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-H1	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/11/2022 3:17:24 PM		
Sample Info.			

Sample Chromatogram



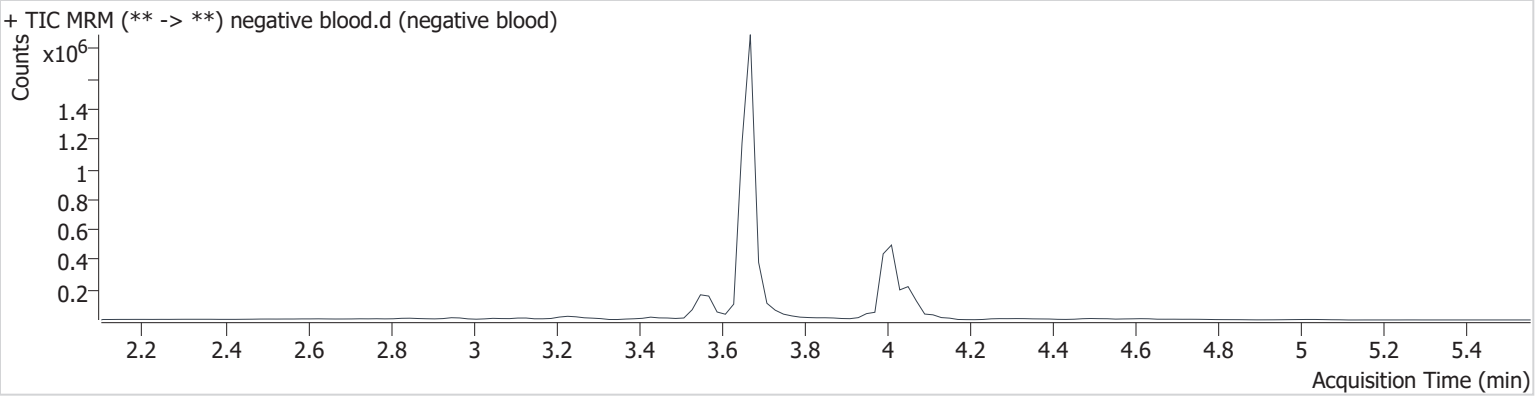
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	13369	341348	4.596 ng/ml
THC-COOH	3.572	74808	411817	17.562 ng/ml
THC-OH	3.679	31235	3995833	4.685 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 3:24:01 PM		
Sample Info.			

Sample Chromatogram

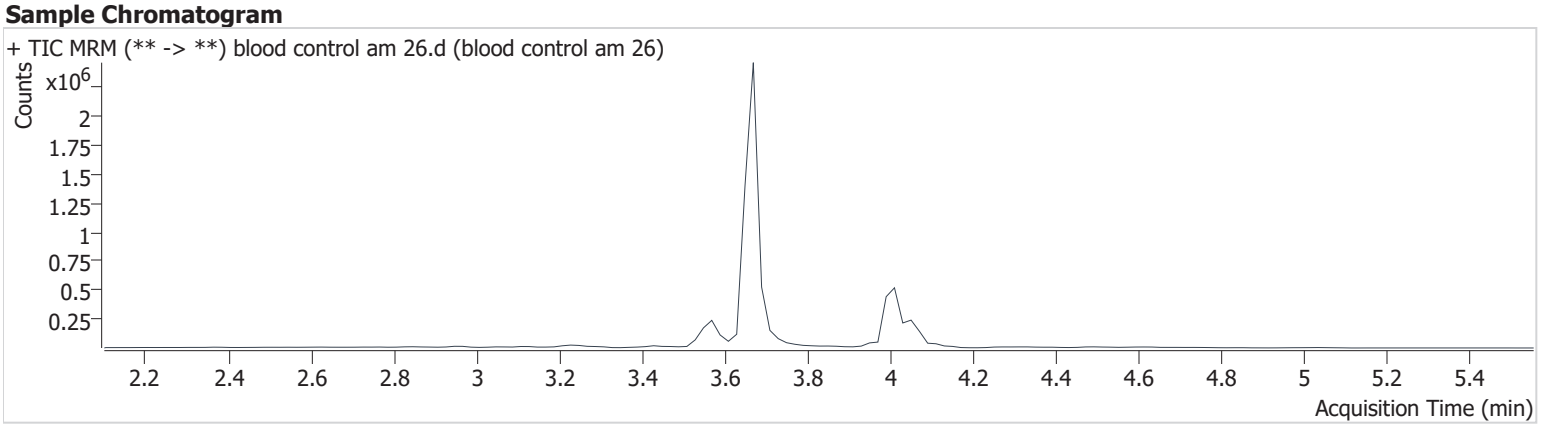


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 PM

Instrument	69679	**Data File**	blood control am 26.d
Type	Sample	**Sample**	blood control am 26
Acq. Method	am 26 cann scr 5-5-20.m	**Operator**	Anne Nord
Sample Position	P3-B2	**Comment**	
Injection Volume	5		
Acq. Date-Time	1/11/2022 3:30:38 PM		
Sample Info.			

Sample Chromatogram



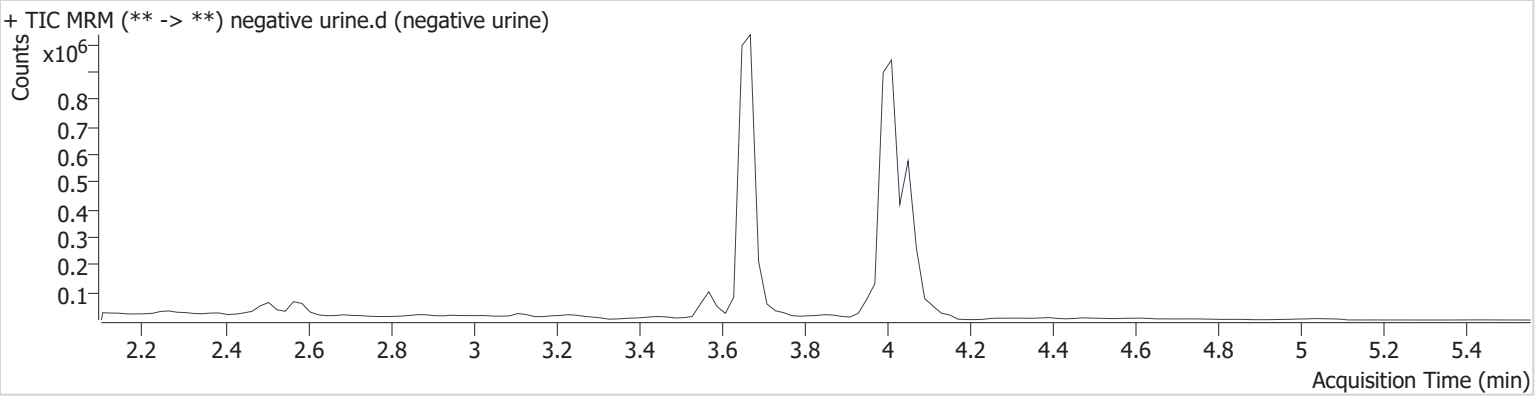
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	21862	357551	7.037 ng/ml
THC-COOH	3.572	73796	441845	16.142 ng/ml
THC-OH	3.679	115408	4477916	15.499 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 4:36:53 PM		
Sample Info.			

Sample Chromatogram

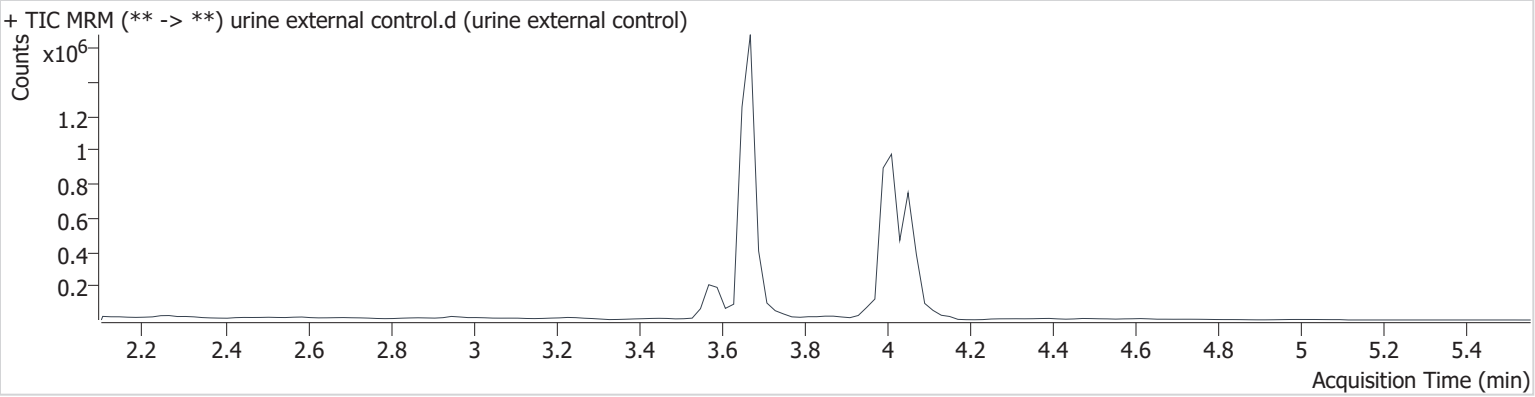


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 4:43:29 PM		
Sample Info.			

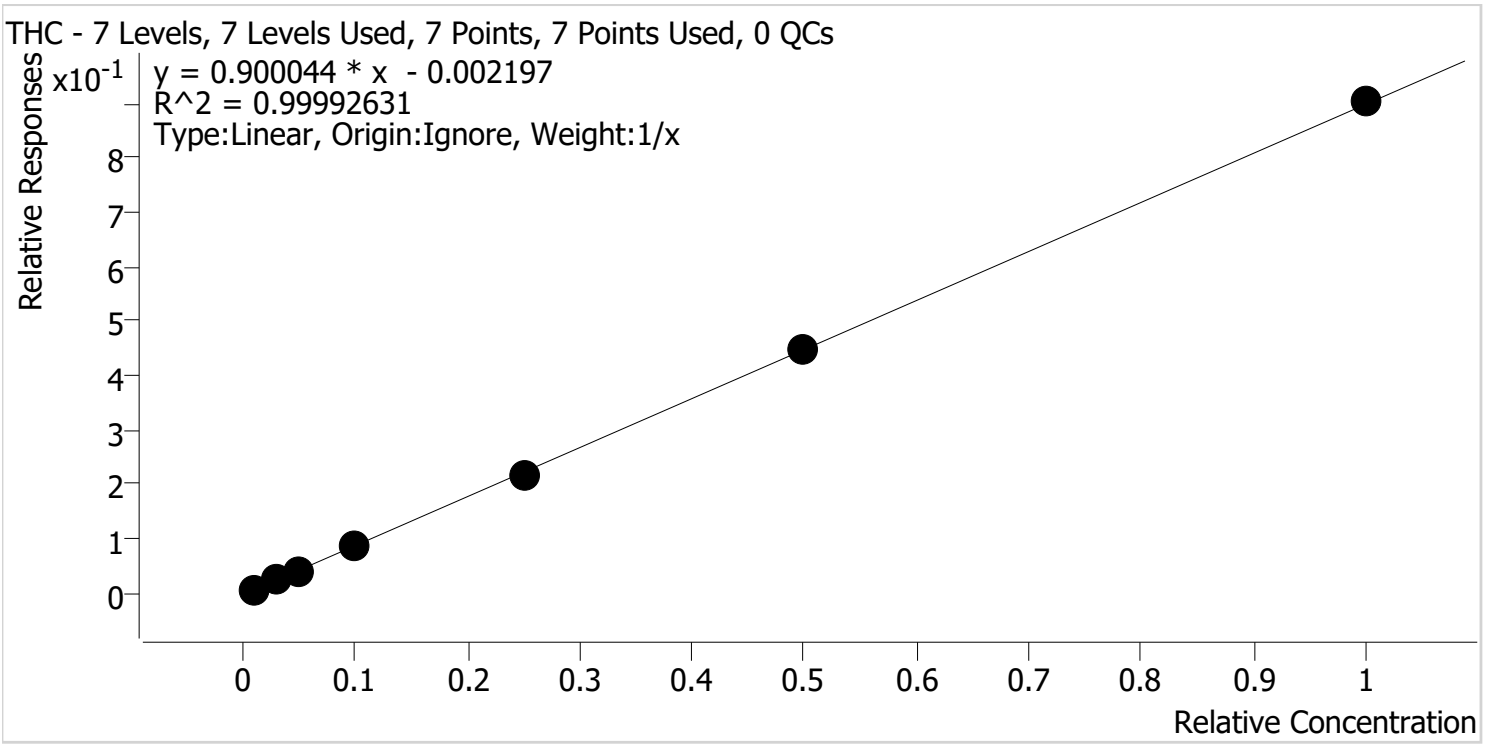
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	170680	1115581	17.243 ng/ml
THC-COOH	3.592	131704	281488	45.335 ng/ml
THC-OH	3.679	190884	2484356	46.252 ng/ml

Compound Calibration Report

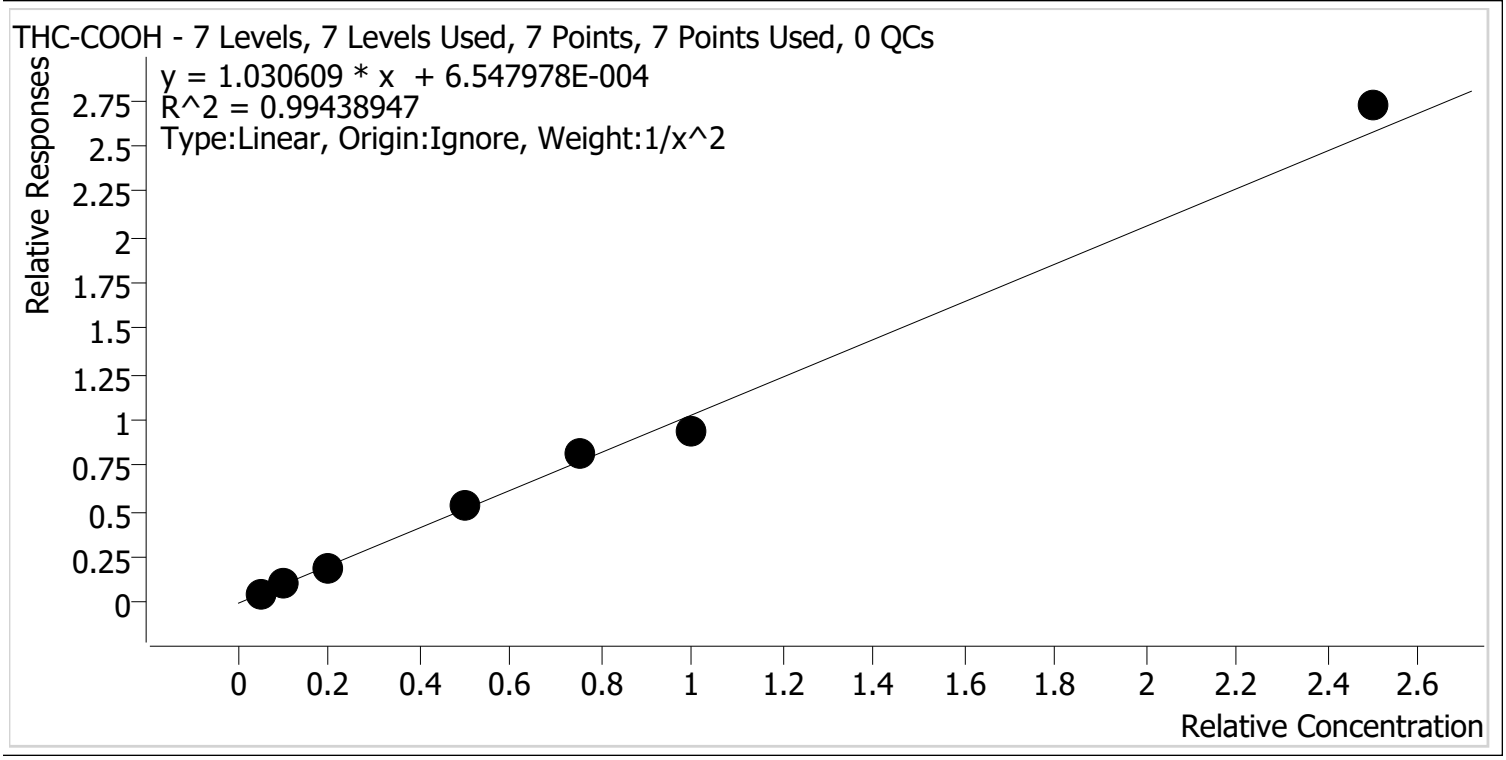
Batch results	D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Last Cal. Update	1/12/2022 12:02 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-d3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.0	102.9
cal 2	2	✔	3.0	3.0	100.4
cal 3	3	✔	5.0	5.0	99.6
cal 4	4	✔	10.0	9.8	98.0
cal 5	5	✔	25.0	24.7	98.7
cal-6	6	✔	50.0	50.0	100.0
cal-7	7	✔	100.0	100.5	100.5

Compound Calibration Report

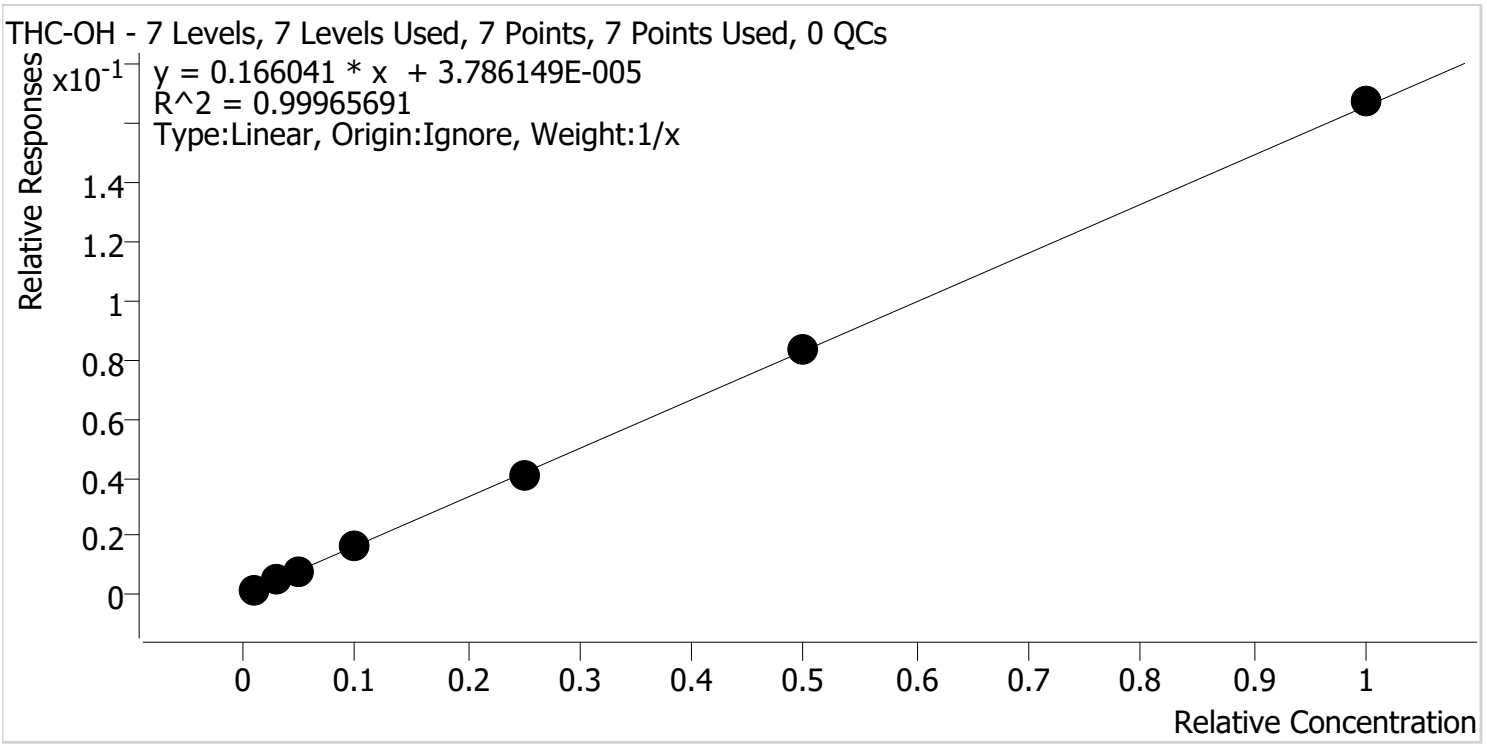
Batch results	D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Last Cal. Update	1/12/2022 12:02 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-d9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	5.0	5.0	100.9
cal 2	2	✔	10.0	10.2	102.2
cal 3	3	✔	20.0	18.1	90.5
cal 4	4	✔	50.0	51.7	103.4
cal 5	5	✔	75.0	79.0	105.3
cal-6	6	✔	100.0	92.2	92.2
cal-7	7	✔	250.0	264.0	105.6

Compound Calibration Report

Batch results	D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Last Cal. Update	1/12/2022 12:02 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-d3



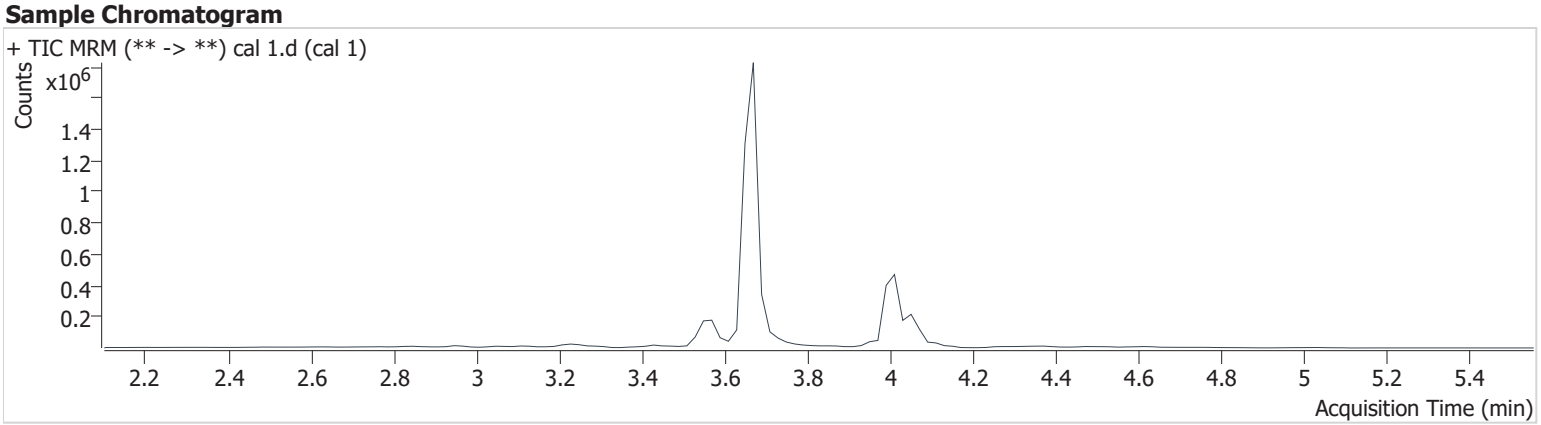
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✔	1.0	1.1	108.1
cal 2	2	✔	3.0	2.9	97.7
cal 3	3	✔	5.0	5.0	99.1
cal 4	4	✔	10.0	9.7	97.1
cal 5	5	✔	25.0	24.1	96.6
cal-6	6	✔	50.0	50.2	100.5
cal-7	7	✔	100.0	101.0	101.0

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 2:31:02 PM		
Sample Info.			

Sample Chromatogram



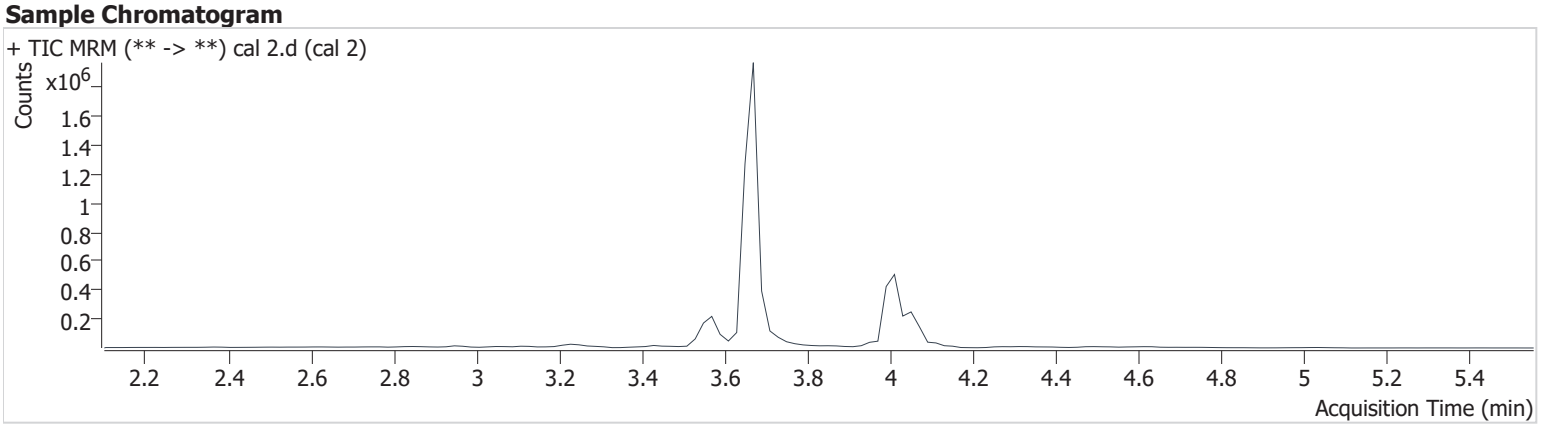
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	2365	334847	1.029 ng/ml **Low**
THC-COOH	3.572	23202	440734	5.045 ng/ml **Low**
THC-OH	3.679	7948	4334731	1.081 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 2:37:40 PM		
Sample Info.			

Sample Chromatogram



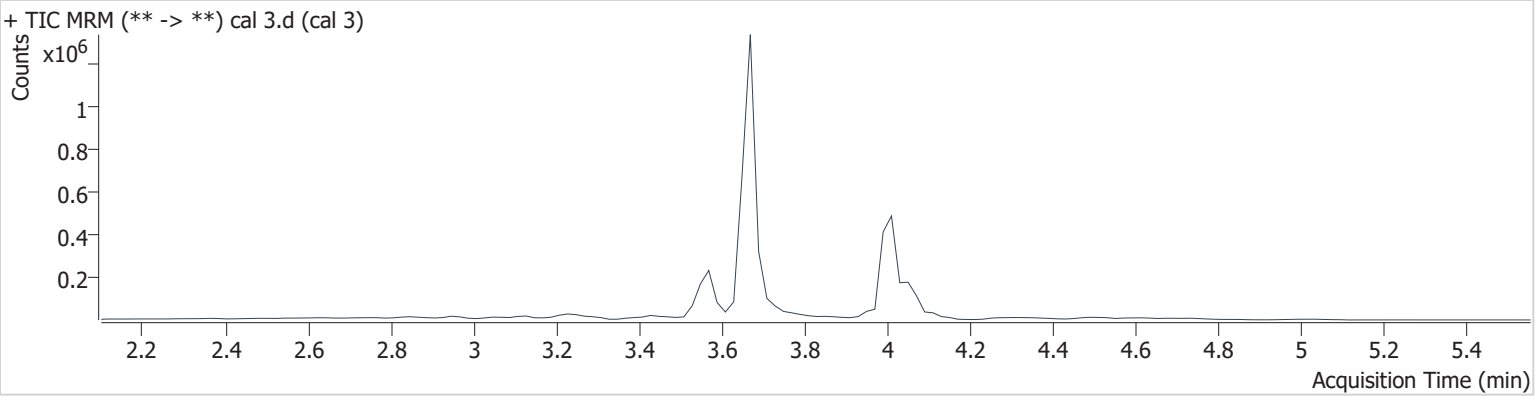
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	9770	392400	3.011 ng/ml
THC-COOH	3.572	49146	463940	10.215 ng/ml
THC-OH	3.679	21679	4420378	2.931 ng/ml **Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 2:44:17 PM		
Sample Info.			

Sample Chromatogram



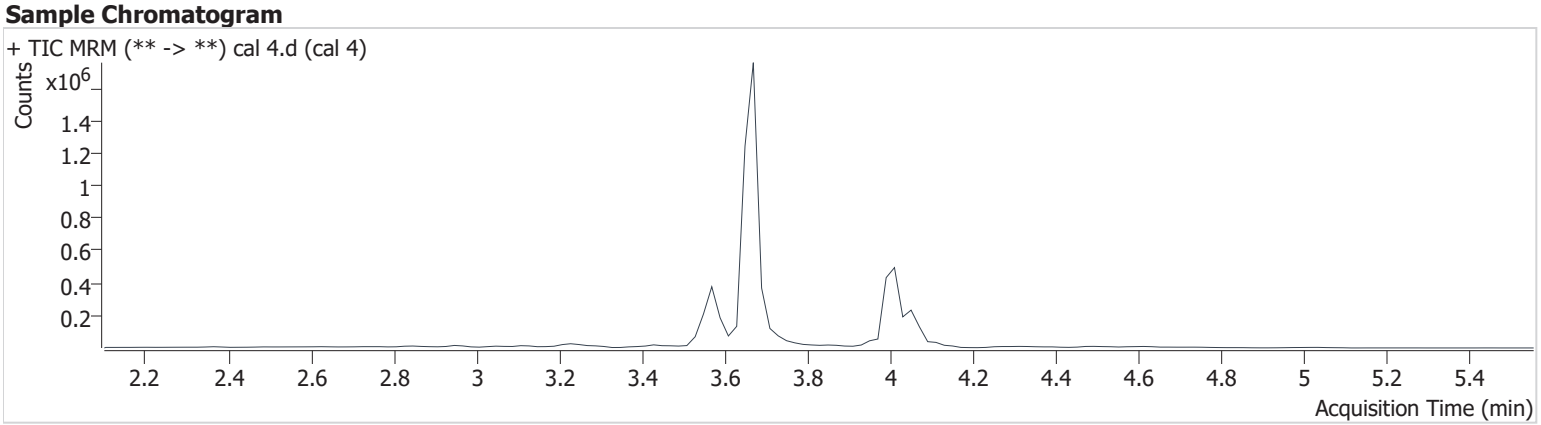
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	11574	271522	4.980 ng/ml
THC-COOH	3.572	71545	382247	18.098 ng/ml
THC-OH	3.679	22825	2761334	4.955 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 2:50:54 PM		
Sample Info.			

Sample Chromatogram



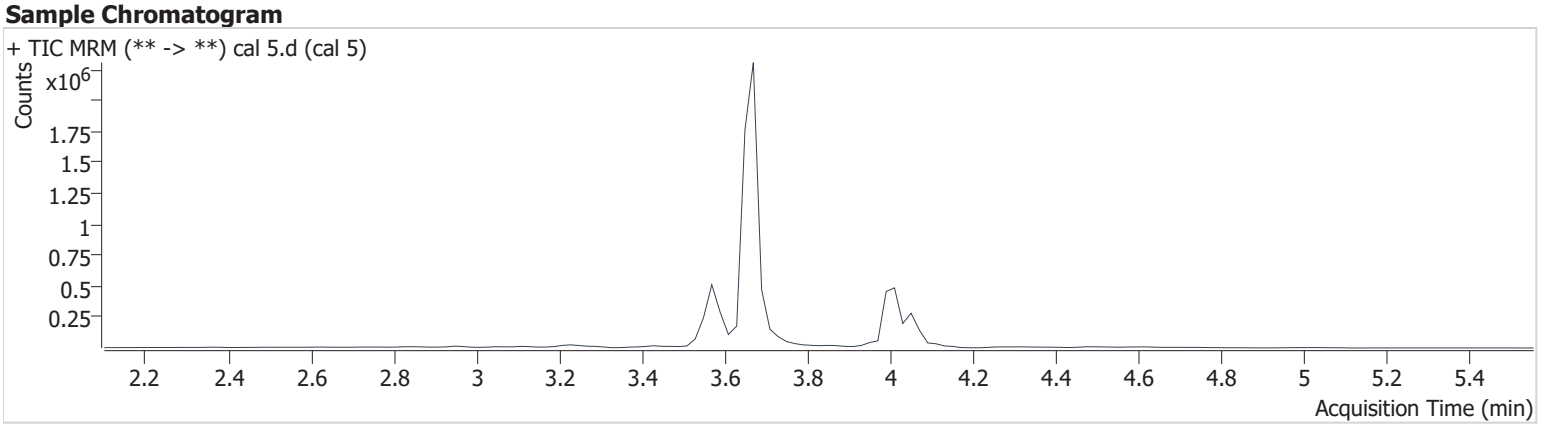
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	28773	334687	9.796 ng/ml
THC-COOH	3.572	212274	397977	51.691 ng/ml
THC-OH	3.679	60084	3719131	9.707 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 2:57:32 PM		
Sample Info.			

Sample Chromatogram



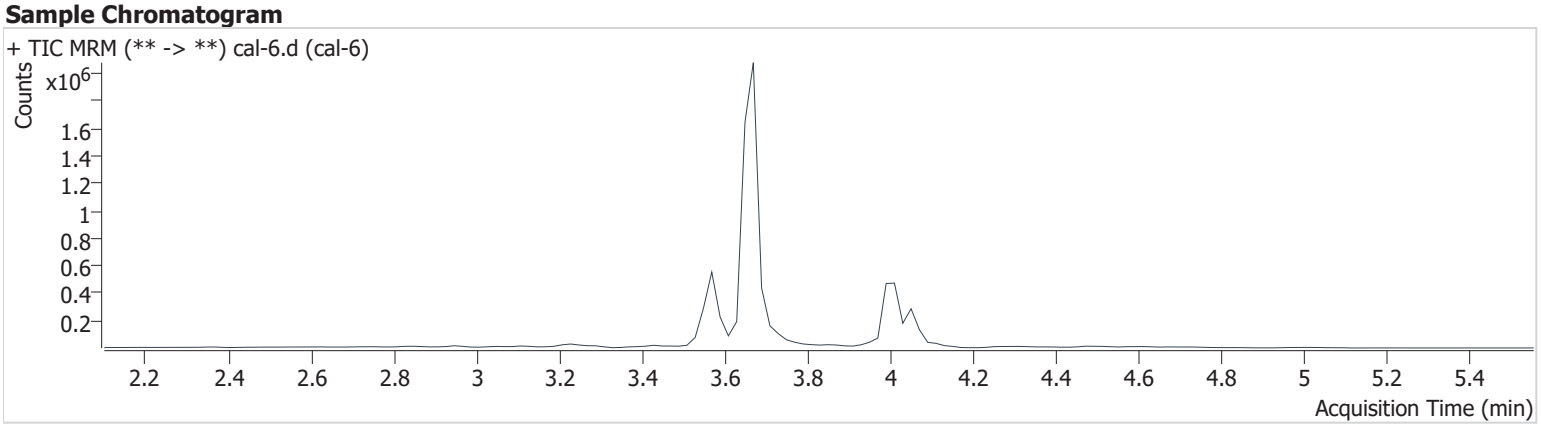
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	77574	352903	24.667 ng/ml
THC-COOH	3.572	347668	426862	78.965 ng/ml
THC-OH	3.679	167813	4182197	24.143 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 3:04:09 PM		
Sample Info.			

Sample Chromatogram



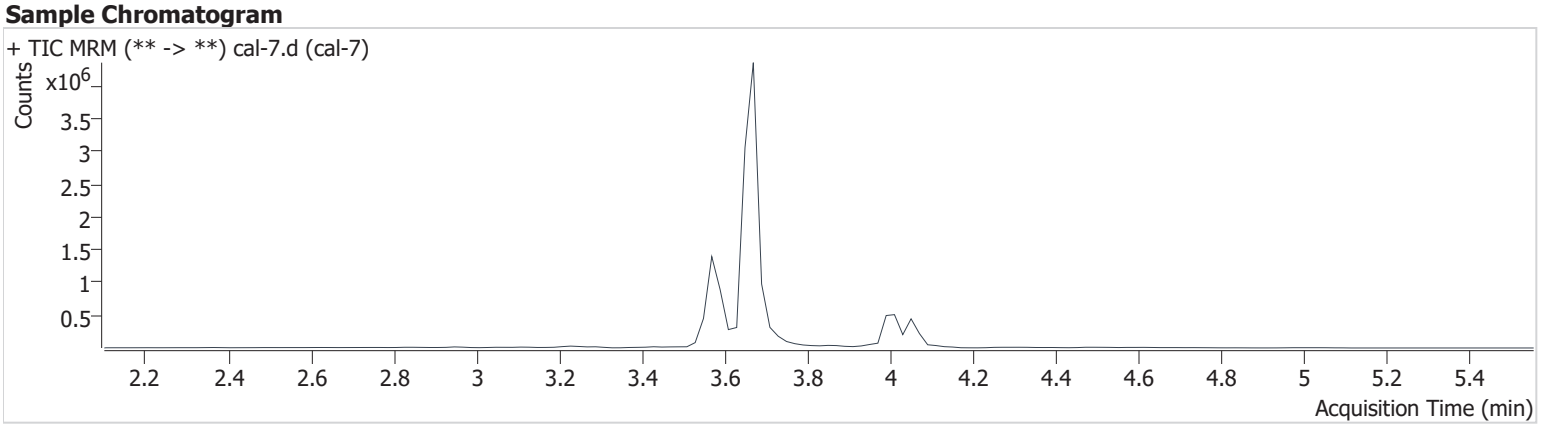
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	134735	300832	50.005 ng/ml
THC-COOH	3.572	373418	392705	92.201 ng/ml
THC-OH	3.679	251369	3012688	50.228 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2022\am 25-26\011122\QuantResults\cann.batch.bin
Calibration Last Update 1/12/2022 12:02:20 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	1/11/2022 3:10:46 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	319634	354183	100.512 ng/ml
THC-COOH	3.572	1203719	442293	264.008 ng/ml
THC-OH	3.679	699145	4169937	100.954 ng/ml