


**Worklist: 6942****REVIEWED**

By Britany Wylie at 11:47 am, Oct 03, 2024

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2024-1695	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1704	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1713	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1868	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1870	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2024-1870	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1884	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1893	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1901	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1909	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1919	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1927	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1934	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2024-1950	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2024-3998	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

Also re-extracted and run with this worklist

M2024-3542-2

C2024-1810-1

C2024-1747-1



## AM# 25: Multi-Drug Screen in Blood and Urine by LC-MS/MS

Extraction Date: 09/30/24

Plate lot#: 240524

Mobile phase A: 10mM Amm Form

Blank Blood Lot: 24C52043

LCMS-QQQ ID: 69679

Analyst: Anne Nord

Plate Retest Date: 11/24/2024

Mobile phase B: 0.1% Formic Acid in MeOH

Blank Urine Lot: 6524

Column: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)

### 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. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.  
**Pipette ID: 390993** Urine samples add 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes
- ☒ 3. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- ☒ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 5. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.  
Amount transferred: 250
- ☒ 6. 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).**
- ☒ 7. Wait 5 minutes.
- ☒ 8. Add **900uL ethyl acetate**.
- ☒ 9. Wait 5 minutes.
- ☒ 10. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 11. Add **900uL ethyl acetate**.
- ☒ 12. Wait 5 minutes.
- ☒ 13. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 14. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. ☒ If run contains urine or at the analyst's discretion, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying (optional). SPE Dry ID: 75401
- ☒ 15. Reconstitute in **100µL 20% LC MeOH** 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 of 5 or greater or 2-5 for discretionary range.
- ☒ 4. Did all QCs pass for each analyte? If no, describe issue in comments (below).
- ☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Mikel Buffaloe was hands of the analyst.

*After the run was started, it was discovered some of the compounds were outside the acquisition window. The acquisition method was updated, and I started the run over.*

*Gabapentin was not evaluated in this run, due to poor response on the calibrator.*

	1	2	3	4	5	6	7	8	9	10	11	12
A	cal 1		1909-2	1747-1								
B		1868-1	1934-1									
C	internal urine control	1870-2	1950-2									
D		1884-1	negative urine									
E	Negative blood	1893-1	1870-1									
F	1695-1	1901-1	M2024-3998-2									
G	1704-1	1919-1	1810-1									
H	1713-1	1927-1	M2024-3542-2									

C2024-\_\_\_\_-

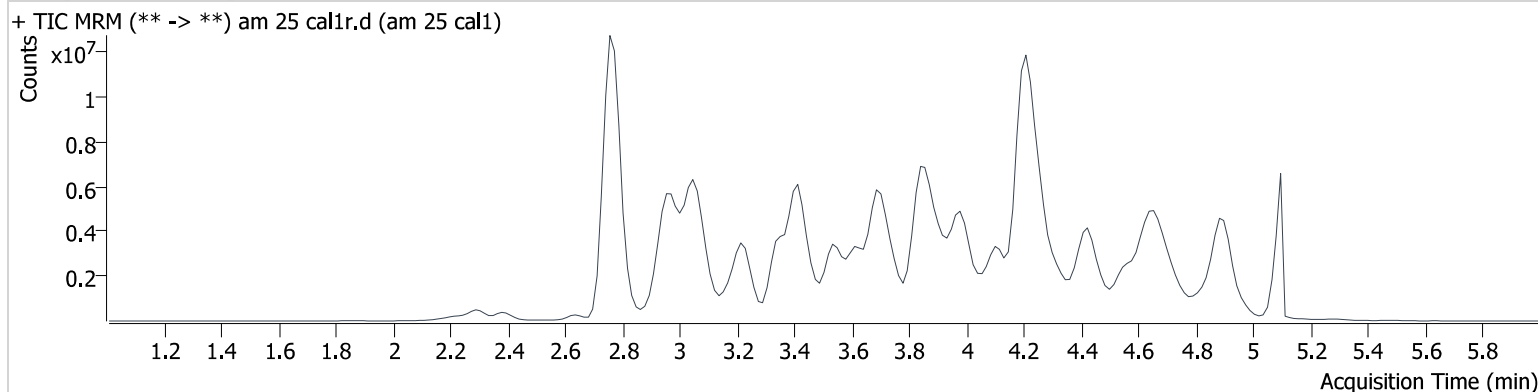
plate position 2

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\am25.batch.bin  
**Calibration Last Update** 10/1/2024 2:53:42 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 cal1r.d
<b>Type</b>	Cal	<b>Sample</b>	am 25 cal1
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-A1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/30/2024 12:44:12 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.909	628803	2624.5	107.4	807792	10.000
6-MAM	2.906	31471	9427.5	3809.4	957824	10.000
7-aminoclonazepam	3.629	260177	119.6	106.4	1303498	10.000
7-aminoflunitrazepam	3.875	599999	910.9	516.7	1303498	10.000
9-Hydroxyrisperidone	3.991	2831997	2357.9	23621.2	1303498	10.000
Acetyl Fentanyl	3.856	176300	291.0	35945.4	4473691	10.000
Acetyl Norfentanyl	2.930	66228	∞	∞	16606179	10.000
a-hydroxyalprazolam	4.748	45918	∞	210.0	807792	10.000
alpha-hydroxymidazolam	4.685	699849	1508.2	216.9	3199315	10.000
alpha-PHP	3.910	1761698	901.7	514.2	4479379	10.000
alpha-PVP	3.604	2240085	1602.3	1401.1	4479379	10.000
Alprazolam	4.827	695361	169.7	141.7	807792	10.000
Amitriptyline	4.677	1176319	911.1	318.7	4635840	10.000
Amphetamine	2.981	1744349	440.6	874.9	4479379	10.000
Benzoylcegonine	3.490	23079	622.6	∞	86712	10.000
Bromazepam	4.914	502669	315.4	1507.7	3199315	10.000
Brompheniramine	4.242	60334	2382.7	3884.6	34626177	10.000
Buprenorphine	4.159	2903	1412.4	37.3	1236314	10.000
Bupropion	3.864	2168592	531.4	333.8	8558005	10.000
Carbamazepine	4.404	3636935	∞	269.5	3740559	10.000
Carisoprodol	4.340	516506	178.4	40.4	2769346	10.000
Chlordiazepoxide	4.813	399776	∞	∞	3199315	10.000
Chlorpheniramine	4.137	3392358	4551.2	12402.3	34626177	10.000
Chlorpromazine	4.902	1166341	305.2	249678.7	6143265	10.000
Citalopram	4.302	1794142	688.2	249233.1	34626177	10.000
Clomipramine	4.903	1438557	683.0	15982.7	2725883	10.000
Clonazepam	4.688	157117	122.7	40.7	807792	10.000
Clonazepam	4.576	190463	26431.5	26761.5	807792	10.000
clozapine	4.424	2387678	1320.9	399699.9	9389550	10.000
Cocaethylene	3.919	2315301	1445.8	1073726.4	11963286	10.000
Cocaine	3.689	2469221	826381.9	158.9	11963286	10.000
Codeine	2.772	236707	25823.8	113113.3	3740559	10.000
Cyclobenzaprine	4.585	1805511	270.3	66.8	4635840	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Desipramine	4.648	3228860	1350408.1	916.0	4635840	10.000
Dextromethorphan	4.262	1189646	418942.7	260200.3	6071296	10.000
Dextrorphan	3.478	1633880	393.0	124662.3	4479379	10.000
Diazepam	5.090	506023	269.5	268.0	3199315	10.000
Dihydrocodeine	2.724	662101	1507.3	2969.5	3740559	10.000
Dimethyltryptamine	3.054	1187515	1830.7	22270.9	4479379	10.000
Diphenhydramine	4.217	4718974	2085.7	468.0	34626177	10.000
Doxepin	4.368	1276138	513.9	842.6	9389550	10.000
Doxylamine	3.692	3912214	538.6	420.5	4479379	10.000
Duloxetine	4.583	58868	10648.3	104845.4	2725883	10.000
EDDP	4.260	333238	266.1	87.7	1734663	10.000
Estazolam	4.752	1232898	332.5	307.6	3199315	10.000
Etizolam	4.823	67396	18162.7	106754.5	3199315	10.000
Fentanyl	4.117	153161	73.0	24511.8	9339530	10.000
Flualprazolam	4.655	300147	1089.5	536.0	3199315	10.000
Flunitrazepam	4.796	624847	217.0	90297.0	807792	10.000
Fluorofentanyl	4.131	138910	48729.3	246.8	9339530	10.000
Fluoxetine	4.566	1748791	986.5	458.9	2725883	10.000
Flurazepam	4.298	1453757	424727.4	754729.7	1236314	10.000
Hydrocodone	3.000	753855	161654.5	2769.3	3740559	10.000
Hydromorphone	2.382	584623	647.2	506.2	6078373	10.000
hydroxyzine	4.714	2129481	1976.0	3066.9	9389550	10.000
Imipramine	4.646	3400615	2441.4	54.3	4635840	10.000
Ketamine	3.449	1568208	1115.5	79.8	6078373	10.000
Lamotrigine	3.632	1314060	8464.7	511.3	4479379	10.000
Levamisole	2.946	1013070	1852.3	408.6	11963286	10.000
Levetiracetam	2.644	365659	501.3	305.2	1303498	10.000
Lorazepam	4.656	21482	13165.3	∞	807792	10.000
Maprotiline	4.662	950410	243.6	204.8	4635840	10.000
MDA	3.116	1746504	353.7	554.4	13162550	10.000
MDEA	3.344	2365470	1845.1	1012.2	13162550	10.000
MDMA	3.176	2539523	1185.1	2657.8	13162550	10.000
Meperidine	3.694	1102547	547.4	175.4	957824	10.000
Meprobamate	3.758	134321	717.7	155.1	2769346	10.000
Methadone	4.612	3148907	3270.8	1168.3	4473691	10.000
Methamphetamine	3.071	1829573	2659310059855 82.0	∞	13162550	10.000
Methocarbamol	3.725	81650	198.0	227.6	3740559	10.000
Methylphenidate	3.634	4701124	1040.9	595.6	11540157	10.000
Metoprolol	3.555	422854	1894.7	191168.6	4479379	10.000
Midazolam	4.501	285706	259.6	38935.0	1303498	10.000
Mirtazapine	3.754	1439753	15296.4	2807.2	1236314	10.000
Mitragynine	4.298	219283	328.9	557.3	9339530	10.000
Morphine	2.216	198721	385.9	1350.1	120944	10.000
Norbuprenorphine	3.960	59948	27353.3	18312.0	1236314	10.000
Nordiazepam	4.954	299119	54709.7	104.9	3199315	10.000
Norfentanyl	3.419	3370730	3348.2	236.4	16606179	10.000
Norhydrocodone	3.001	37269	12839.8	173.8	3740559	10.000
norketamine	3.435	235089	117.6	1527.7	6078373	10.000
Normeperidine	3.742	1592764	296.3	444.7	957824	10.000
Noroxycodone	2.969	754488	∞	524.3	3740559	10.000
Nortriptyline	4.679	1123680	1807.4	432.4	2725883	10.000
O-desmethyl-tramadol	2.959	3626119	17139.8	103.5	4473691	10.000
O-Desmethylvenlafaxine	3.354	994264	∞	15311.4	4473691	10.000
Olanzapine	3.181	387128	1327.1	17859.7	2725883	10.000
Oxazepam	4.768	126400	∞	∞	807792	10.000
Oxycodone	2.952	1255114	888.0	97604.6	6078373	10.000
Oxymorphone	2.287	940571	585.5	4633.9	6078373	10.000
Paroxetine	4.593	266376	∞	∞	2725883	10.000
Phenazepam	4.884	331118	94055.5	52001.8	3199315	10.000

# AM #25 Multi-Drug Screen Results

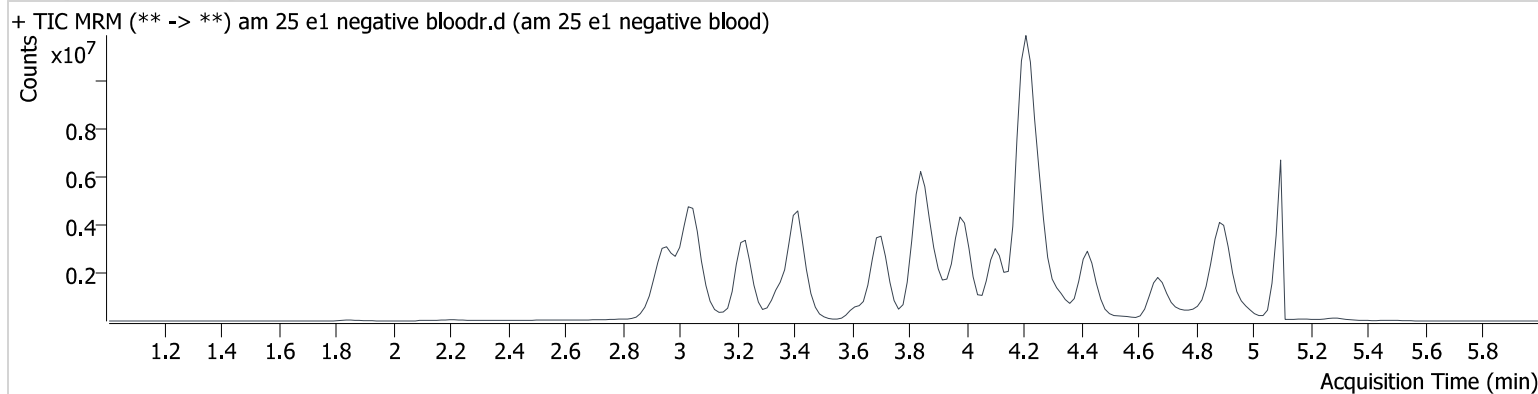
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Phencyclidine	4.065	2735865	2115.5	279.4	4473691	10.000
Phentermine	3.255	898678	∞	1394226 1533210. 9	11540157	10.000
Phenytoin	4.295	64336	∞	4348.0	28380	10.000
primidone	3.559	1098216	1126.1	1436.6	16606179	10.000
Promethazine	4.553	3588995	1922.5	295.2	4635840	10.000
Pseudoephedrine	2.766	46045453	1846.6	3699.5	11540157	10.000
Quetiapine	4.468	2413852	2801.5	396361.6	2725883	10.000
Risperidone	4.160	2336610	788579.0	61417.6	34626177	10.000
Sertraline	4.858	582979	476805.8	∞	2725883	10.000
Sufentanil	4.391	99319	61391.5	22841.1	9339530	10.000
Tapentadol	3.559	2800127	1494.1	1033.4	6078373	10.000
Temazepam	4.920	677185	625.1	47.6	3199315	10.000
Topiramate	3.963	98721	99.5	16406.1	38790	10.000
Tramadol	3.540	7618105	∞	58.9	957824	10.000
Trazodone	4.253	1778771	781.9	1025.6	7924550	10.000
Venlafaxine	3.968	3590717	13965.6	123.2	4473691	10.000
Xylazine	3.451	211461	119.8	∞	4473691	10.000
Zaleplon	4.551	567919	112498.4	988.3	807792	10.000
Zolpidem	3.843	3027220	2607.8	3847.0	14732805	10.000
Zopiclone	3.946	313872	1428.5	∞	1748273	10.000

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\am25.batch.bin  
**Calibration Last Update** 10/1/2024 2:53:42 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 e1 negative bloodr.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 e1 negative blood
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-E1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/30/2024 12:57:50 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

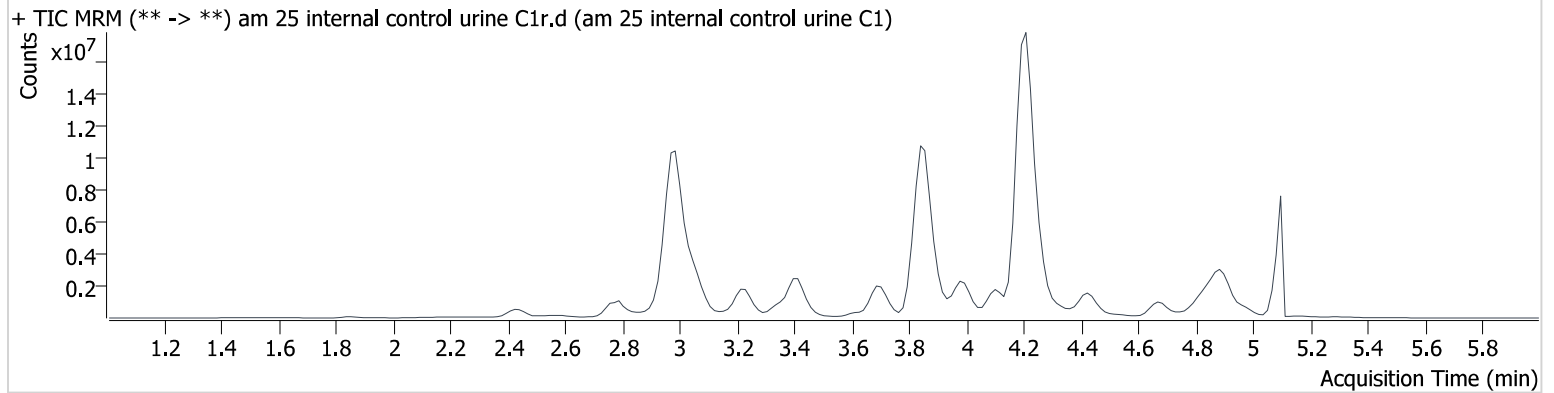


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\am25.batch.bin  
**Calibration Last Update** 10/1/2024 2:53:42 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 internal control urine C1r.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 internal control urine C1
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/30/2024 12:51:06 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.827	2544898	40.8	93.8	364305	81.151
Amphetamine	2.996	10992091	1402.5	3344.8	2606163	108.309
Codeine	2.772	1722059	5456.9	31294.1	2188184	124.362
Diphenhydramine	4.217	38252488	21201.0	1152.5	22167403	126.620
Zolpidem	3.858	25234003	5281.1	6892.1	10200411	120.395

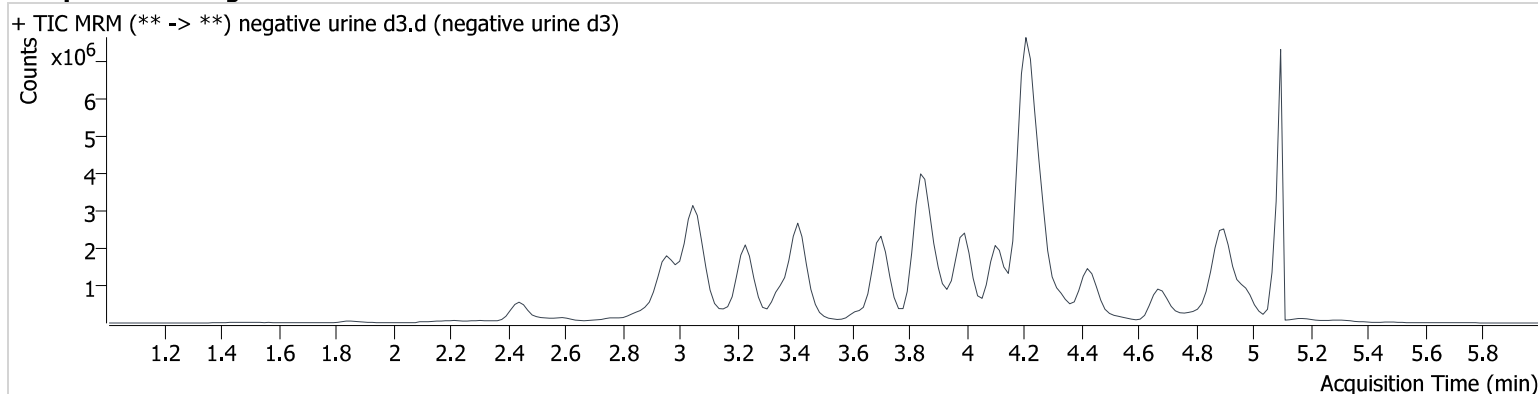


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\am25.batch.bin  
**Calibration Last Update** 10/1/2024 2:53:42 PM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine d3.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine d3
<b>Acq. Method</b>	mds 4324.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-D3	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/30/2024 2:32:06 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





## AM# 26: Screening of THC and Metabolites in Blood and Urine by LC-MS/MS

Extraction Date: 9/30/24

Plate lot#: 240513

Mobile phase A: 10mM Amm Form in LCMS water

Blank Blood Lot: 24C52043

LCMS-QQQ ID: 69679

Analyst: Anne Nord

Plate Retest Date: 11/13/2024

Mobile phase B: 0.1% Formic acid in MeOH

Blank Urine Lot: 6524

Column: Agilent Phenyl Hexyl (4.6x50mm, 2.7um)

### 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. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. **Pipette ID: K52558G**
- ☒ 3. **Urine hydrolysis add 100 ul BG turbo, and 200 ul BG turbo buffer to the urine samples in wells of the analytical plate.**
- ☒ 4. Add **500µL of 0.1% formic acid in water** in the wells of the analytical plate
- ☒ 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- ☒ 6. Transfer **700-800µL of blood+acid or urine+acid** mixture to corresponding wells of SLE+ plate.  
Amount transferred: **750 µL**
- ☒ 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)**
- ☒ 8. Wait 5 minutes.
- ☒ 9. Add **2.25mL MTBE. (Add in 3 increments of 750uL)**
- ☒ 10. Wait 5 minutes.
- ☒ 11. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 12. Add **2.25mL Hexane. (Add in 3 increments of 750uL)**
- ☒ 13. Wait 5 minutes.
- ☒ 14. Apply positive pressure for approx. 15 seconds. **(10-15 PSI- Selector to the left).**
- ☒ 15. Remove plate containing eluate. Place on SPE Dry 75401 and evaporate to dryness at approx. 35°C.
- ☒ 16. Reconstitute in **100µL 100% MeOH** and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- ☒ 1. Create batch and process data.
- ☒ 2. Make any necessary integration changes, R<sup>2</sup> values ≥0.98 for each analyte
- ☒ 3. RT +/- 2% or 0.100 min, whichever is greater
- ☒ 4. Confirmation testing on case samples with a response for THC and OH-THC of 3ng/mL or greater and/or Carboxy-THC at 10ng/mL or greater (analyst discretion between 5-10ng/mL) may be pursued.
- ☒ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- ☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: M2024-3998-2 was injected with the wrong acquisition method, the sample was re-injected with the correct method the next day. The Positive blood control was re-injected after it.

Mikel Buffaloe hands of the analyst for this extraction.

	1	2	3	4	5	6
a	cal 1	Internal control urine	1884-1	negative urine		
b	cal 2	negative blood	1893-1	m2024-3542-2		
c	cal 3	1695-1	1901-1	1747-1		
d	cal 4	1704-1	1919-1	1810-1		
e	cal 5	1713-1	1927-1	1870-1		
f	cal 6		1909-2	m2024-3998-2		
g	cal 7	1868-1	1934-1			
h	Internal control (blood)	1870-2	1950-2			

Plate position 3

c2024-\_\_\_\_-\_\_

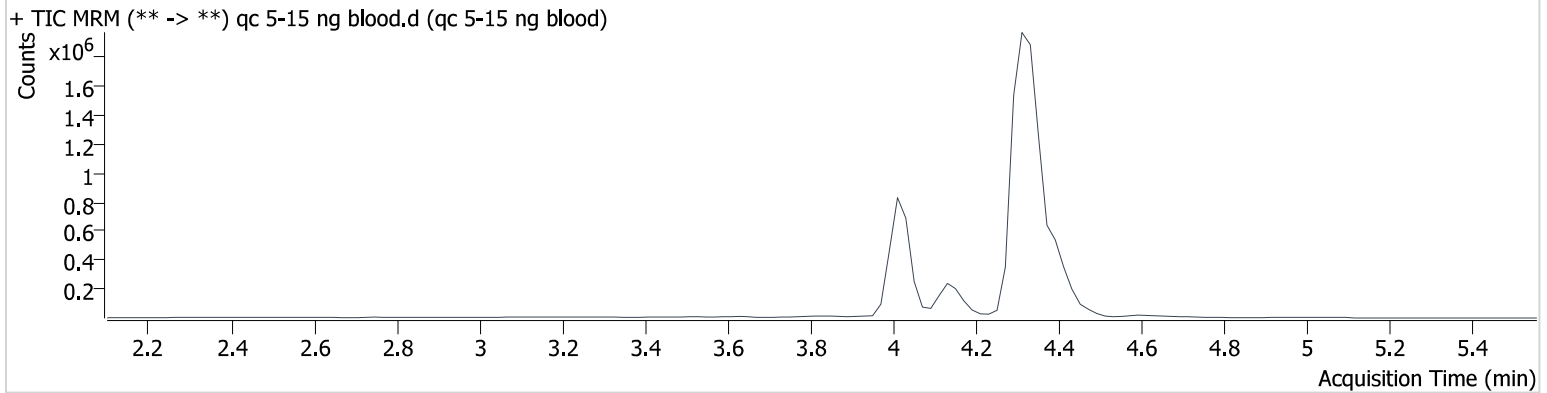
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-15 ng blood.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-15 ng blood
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 4:18:27 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	16203	397609	4.948 ng/ml
THC-COOH	4.153	106291	612444	14.910 ng/ml
THC-OH	4.019	20097	2600031	4.756 ng/ml

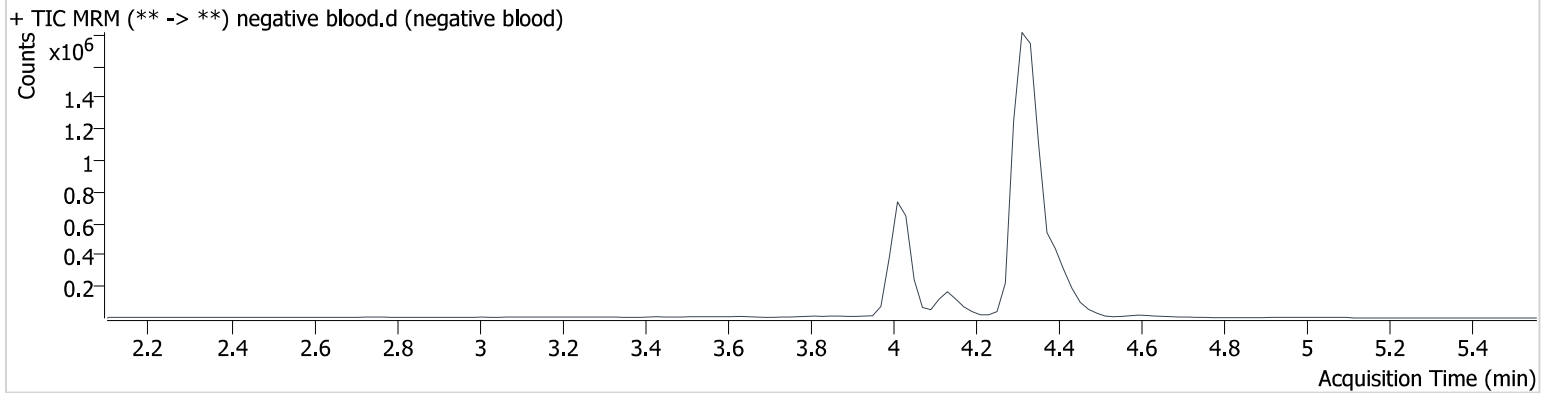
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	negative blood
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-B2	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 4:31:23 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



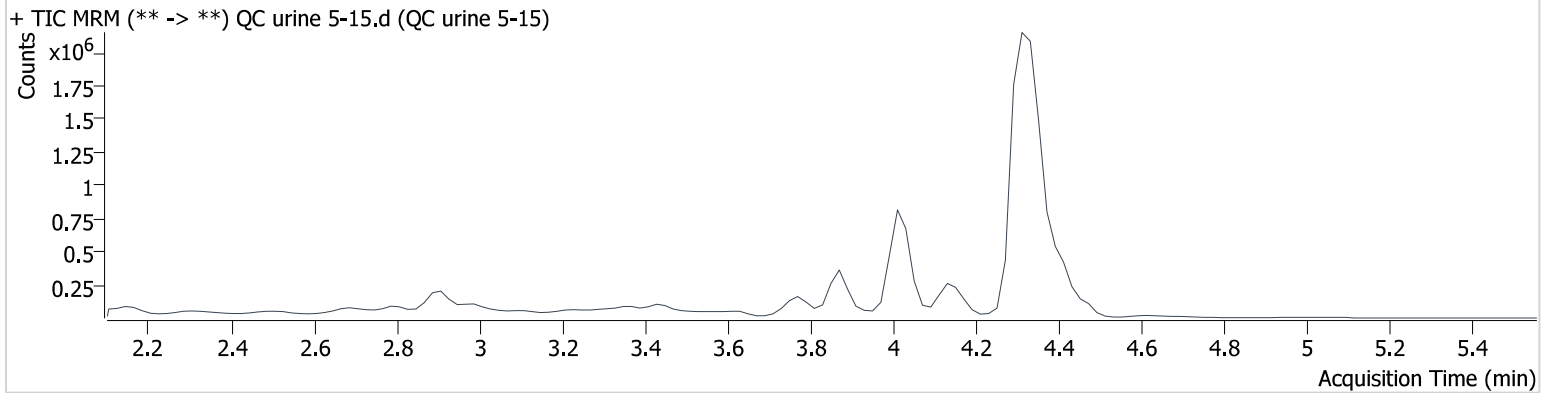


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	QC urine 5-15.d
<b>Type</b>	QC	<b>Sample</b>	QC urine 5-15
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A2	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 4:24:55 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	17173	451366	4.628 ng/ml
THC-COOH	4.153	117659	669809	15.087 ng/ml
THC-OH	4.019	13450	2441720	3.411 ng/ml

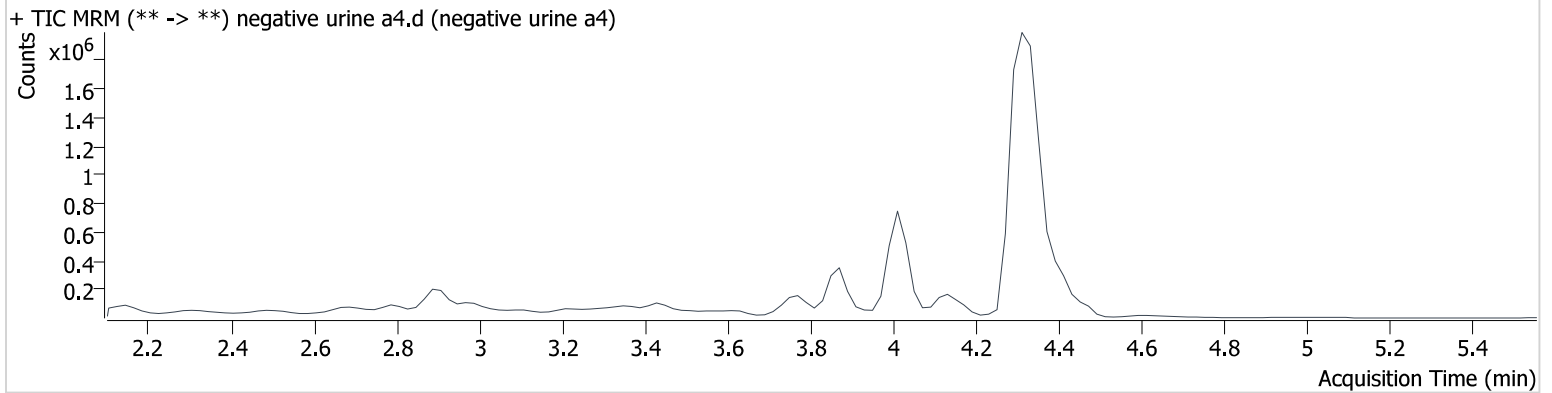
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine a4.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine a4
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A4	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 6:01:58 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



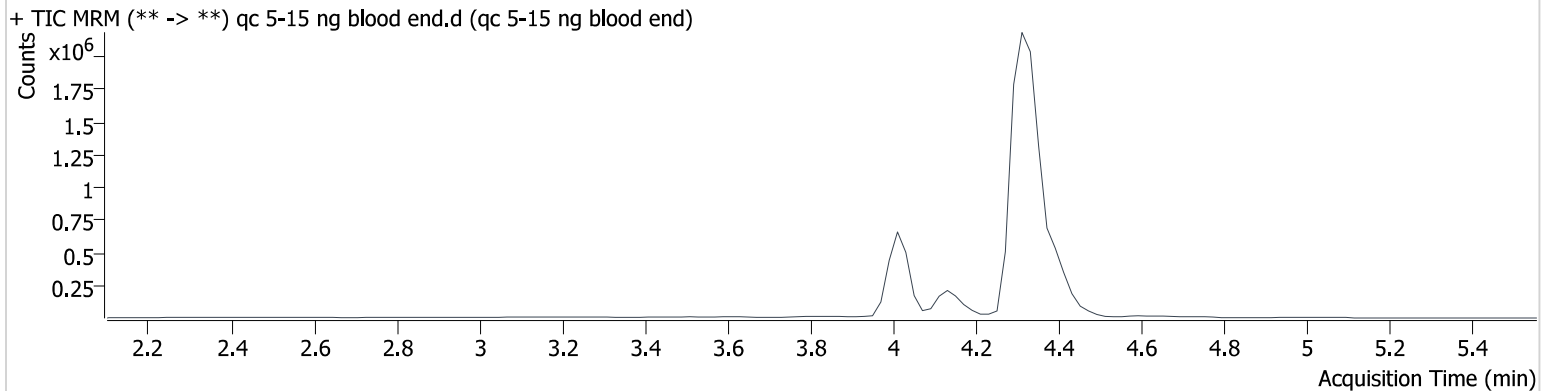
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-15 ng blood end.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-15 ng blood end
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	10/1/2024 9:16:43 AM		
<b>Sample Info.</b>			

## Sample Chromatogram



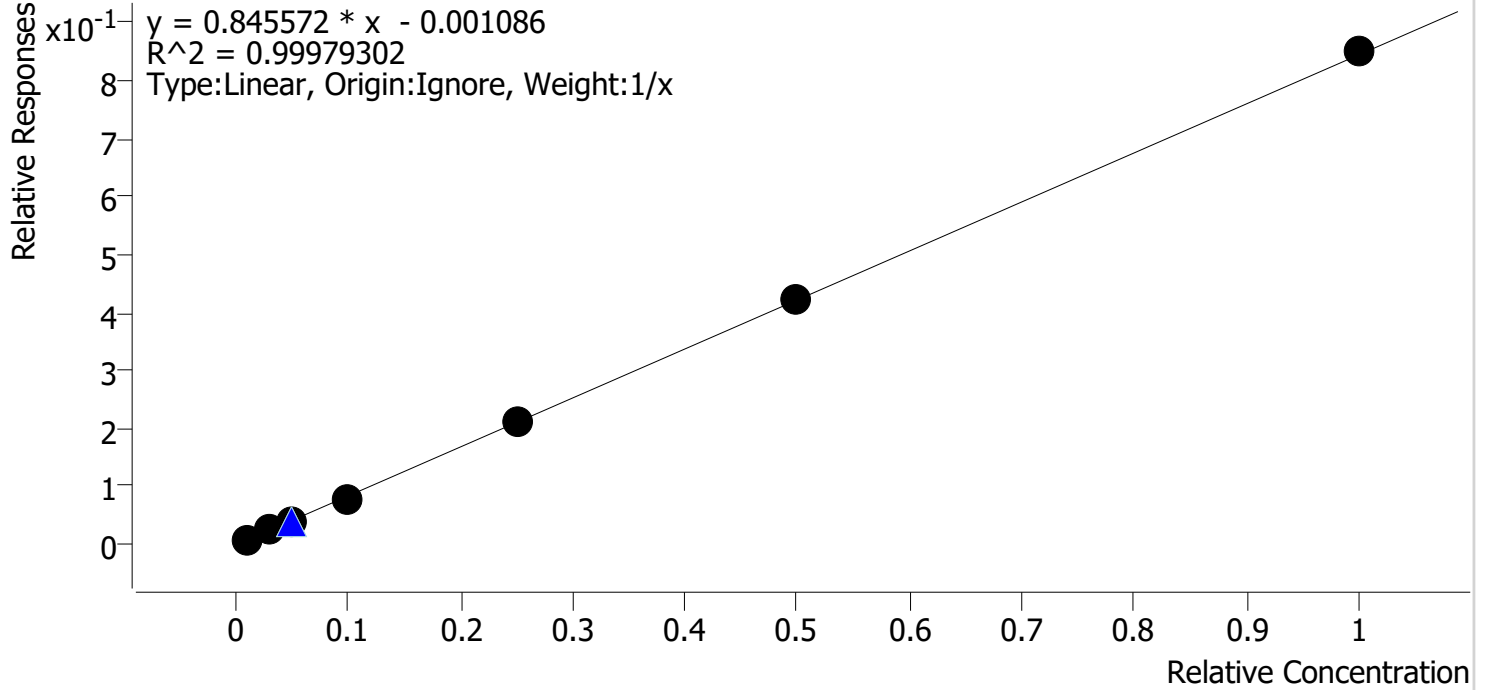
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	13943	339557	4.984 ng/ml
THC-COOH	4.153	91128	591889	13.269 ng/ml
THC-OH	4.019	16380	2098434	4.802 ng/ml



# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Last Cal. Update** 10/1/2024 9:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs

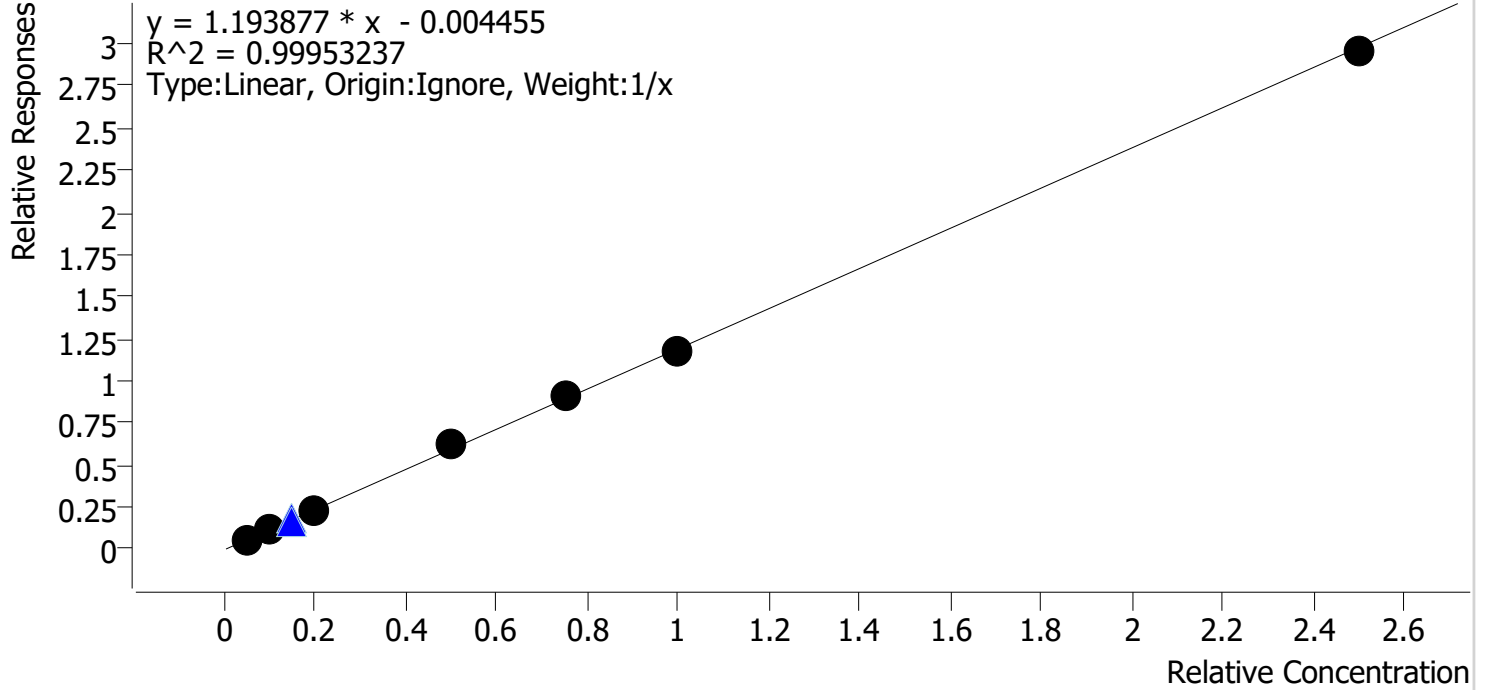


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	108.0
cal 2	2	✓	3.0	3.0	98.6
cal 3	3	✓	5.0	4.9	97.8
cal 4	4	✓	10.0	9.6	95.6
cal 5	5	✓	25.0	24.8	99.2
cal-6	6	✓	50.0	50.1	100.1
cal-7	7	✓	100.0	100.6	100.6

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Last Cal. Update** 10/1/2024 9:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs

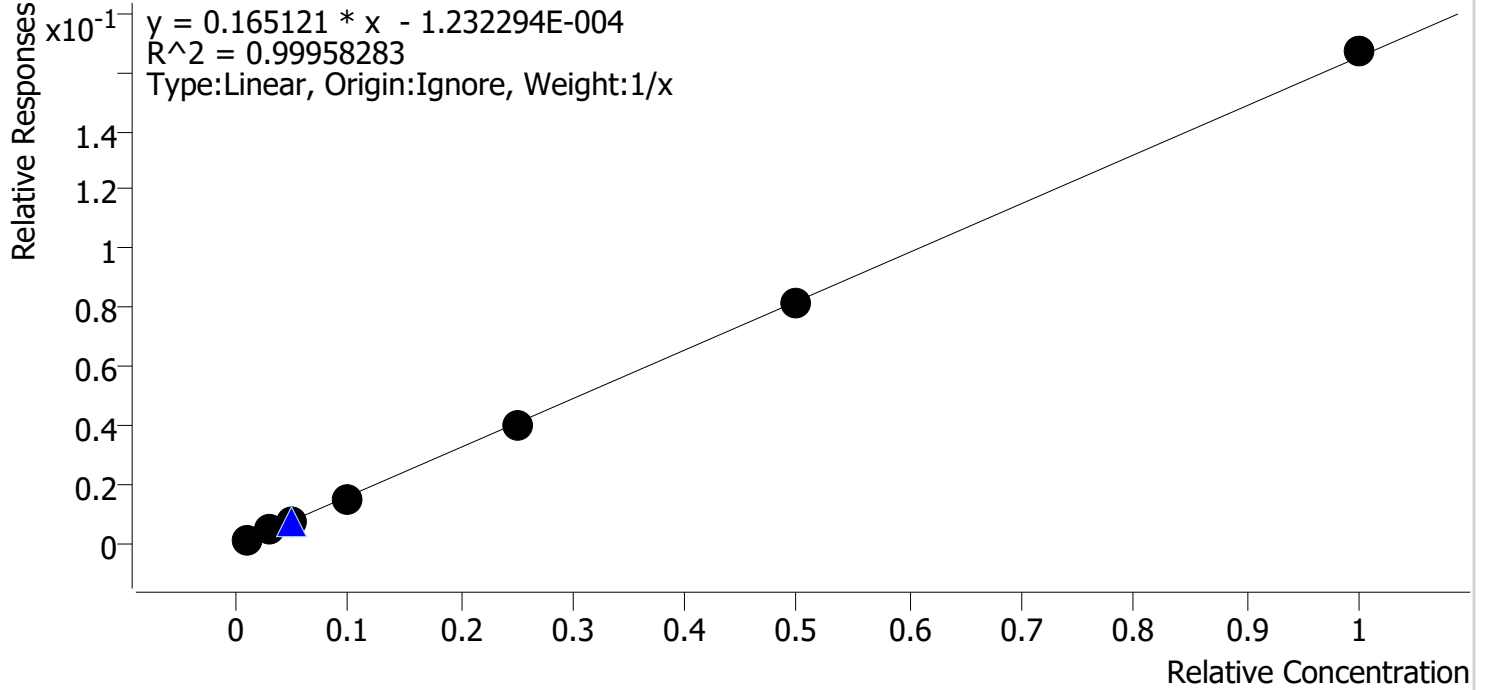


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.0	100.2
cal 2	2	✓	10.0	9.9	99.1
cal 3	3	✓	20.0	19.2	95.8
cal 4	4	✓	50.0	52.2	104.5
cal 5	5	✓	75.0	76.3	101.7
cal-6	6	✓	100.0	99.5	99.5
cal-7	7	✓	250.0	247.8	99.1

# Compound Calibration Report

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Last Cal. Update** 10/1/2024 9:28 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-OH **Internal Standard** THC-OH-d3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	111.6
cal 2	2	✓	3.0	2.9	96.5
cal 3	3	✓	5.0	4.9	98.2
cal 4	4	✓	10.0	9.4	94.2
cal 5	5	✓	25.0	24.7	98.8
cal-6	6	✓	50.0	49.9	99.8
cal-7	7	✓	100.0	101.1	101.1

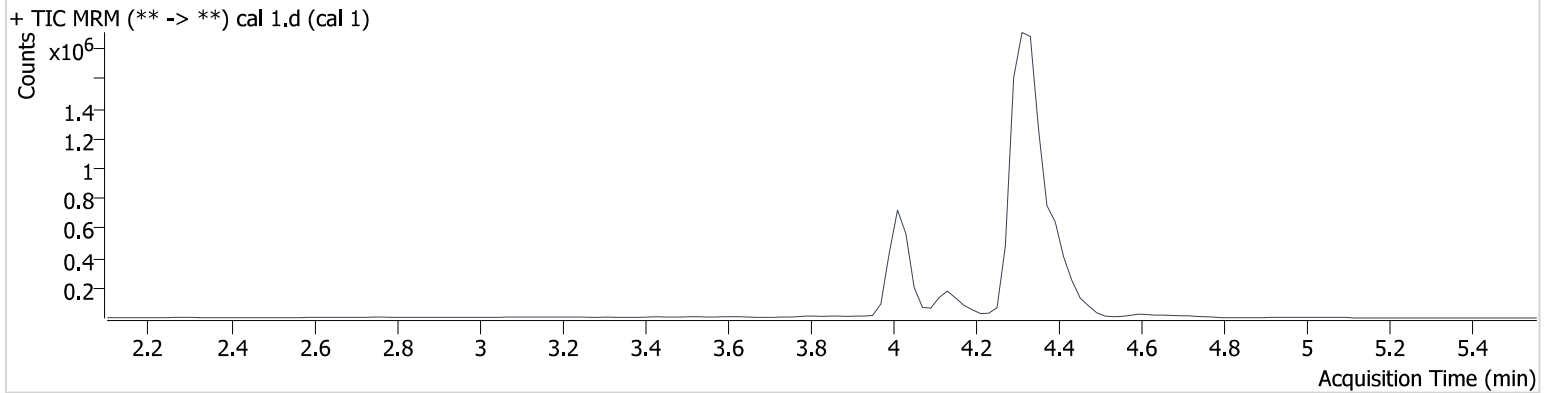
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	cal 1
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 3:33:04 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	4139	514318	1.080 ng/ml <b>Low</b>
THC-COOH	4.153	31139	562617	5.009 ng/ml <b>Low</b>
THC-OH	4.019	4084	2375468	1.116 ng/ml <b>Low</b>

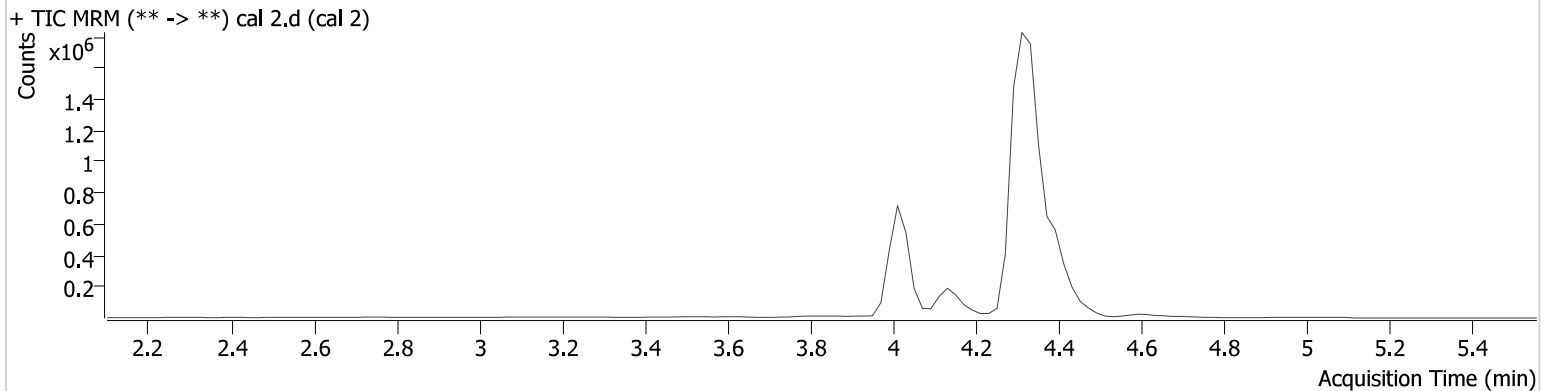
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	cal 2
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-B1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 3:39:42 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	11484	480230	2.957 ng/ml <b>Low</b>
THC-COOH	4.153	60190	528422	9.914 ng/ml <b>Low</b>
THC-OH	4.019	10553	2267232	2.894 ng/ml <b>Low</b>

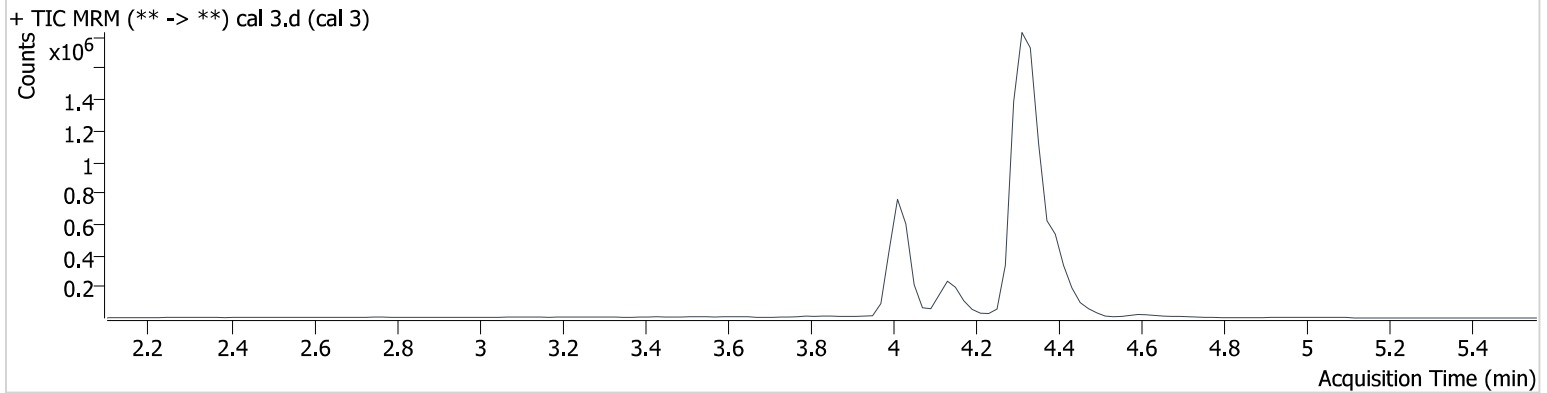
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	cal 3
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 3:46:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	19139	475274	4.891 ng/ml
THC-COOH	4.153	119406	532461	19.157 ng/ml
THC-OH	4.019	18624	2333164	4.909 ng/ml

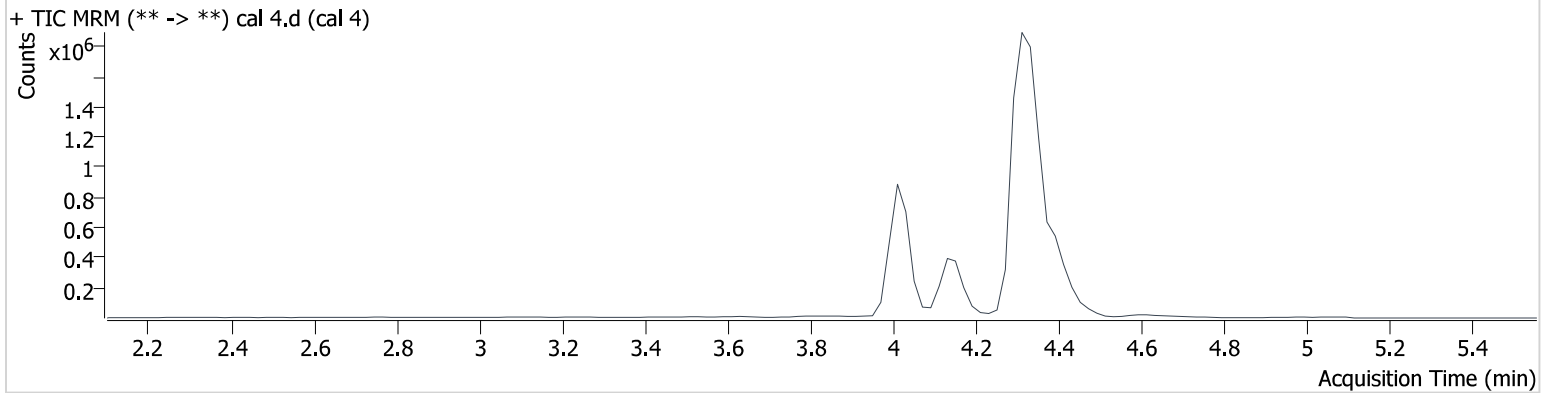
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	cal 4
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-D1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 3:52:37 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	34366	430850	9.561 ng/ml
THC-COOH	4.153	352300	568856	52.247 ng/ml
THC-OH	4.019	39475	2559510	9.415 ng/ml

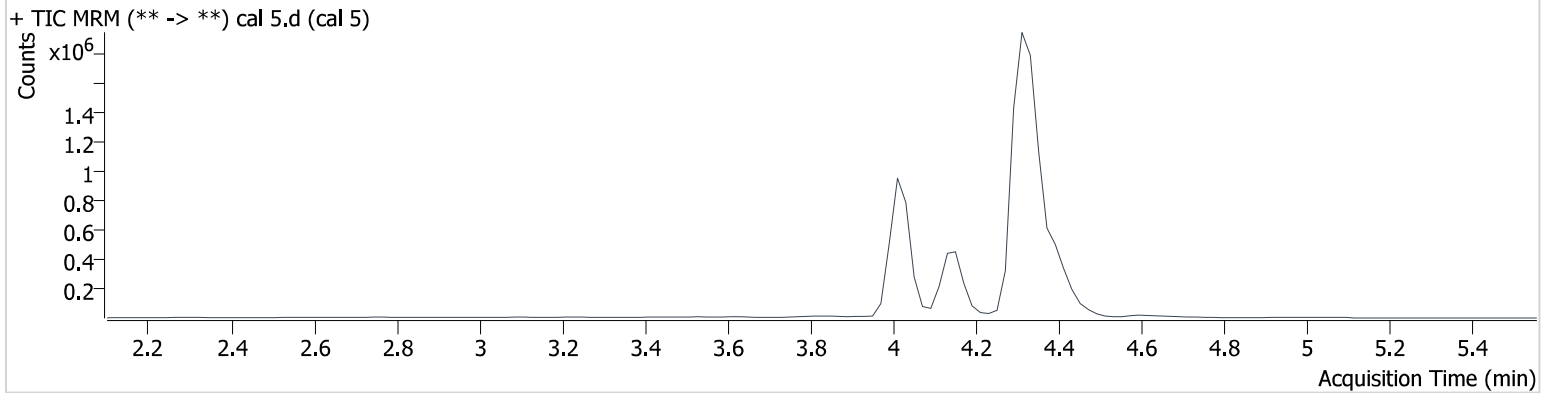
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	cal 5
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-E1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 3:59:05 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	79421	380581	24.808 ng/ml
THC-COOH	4.153	455348	502287	76.307 ng/ml
THC-OH	4.019	93935	2310645	24.695 ng/ml



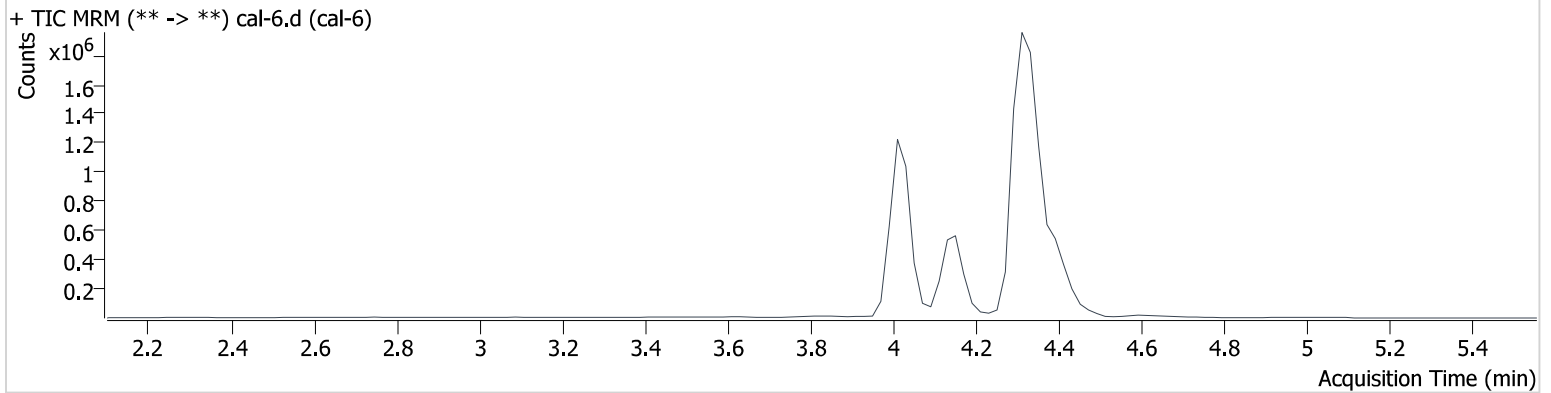
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal-6.d
<b>Type</b>	Cal	<b>Sample</b>	cal-6
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-F1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 4:05:32 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	162812	385510	50.074 ng/ml
THC-COOH	4.153	595670	503247	99.517 ng/ml
THC-OH	4.019	189229	2300860	49.882 ng/ml

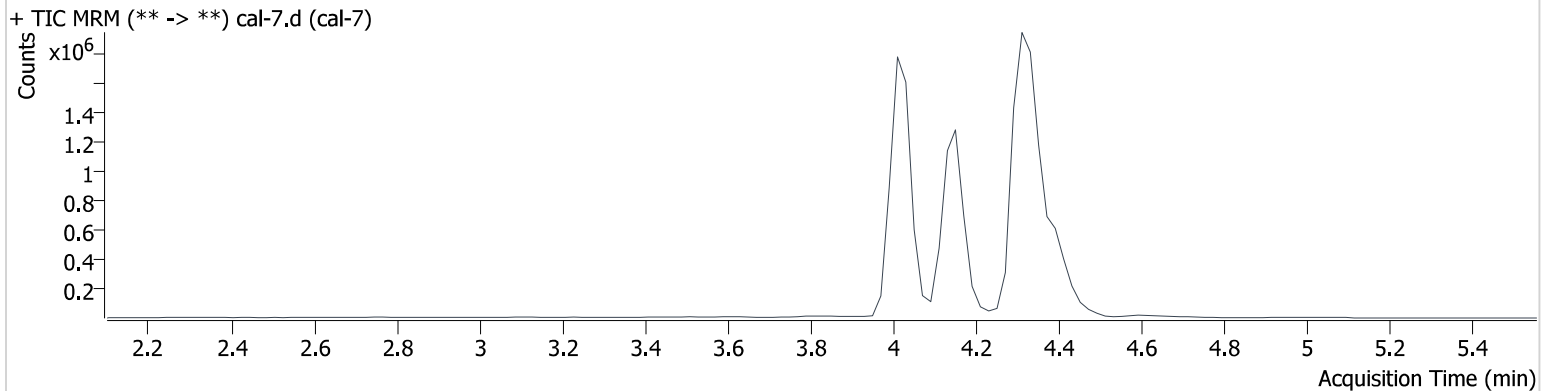
*[Signature]*

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2024\am 25-26\093024\QuantResults\cann.batch.bin  
**Calibration Last Update** 10/1/2024 9:28:55 AM

<b>Instrument</b>	69679	<b>Data File</b>	cal-7.d
<b>Type</b>	Cal	<b>Sample</b>	cal-7
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-G1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/30/2024 4:12:00 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.405	331324	389883	100.629 ng/ml
THC-COOH	4.153	1563642	529230	247.849 ng/ml
THC-OH	4.019	398812	2391004	101.090 ng/ml