

**REVIEWED**


















By Sarah Collins at 12:30 pm, Sep 18, 2023




**REVIEWED**

By Brittany Wylie at 7:38 am, Sep 20, 2023

**Worklist: 6494**

<u>LAB_CASE</u>	<u>ITEM</u>	<u>ITEM_TYPE</u>	<u>DESCRIPTION</u>	
C2023-1941	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1945	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1946	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-1953	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1959	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1960	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1974	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-1978	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-1979	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2000	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2003	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2014	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-2016	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2032	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2045	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2023-2064	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-2077	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-2088	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
C2023-2096	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: 09/12/23 Analyst: Anne Nord  10/4/23  
Plate lot#: 230712 Plate retest date: 1/12/2023 4

**Mobile phase A:** 10mM Ammonium Formate  
0.5M Ammonium Hydroxide

**Mobile phase B:** 0.1% Formic Acid in MeOH  
Ethyl Acetate LC 20% Methanol

**Blank Blood Lot:** 23C57106 **Blank Urine lot:** 8423

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

**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  $\mu$ L blood (**calibrated pipette**) or 250 ul urine in wells of analytical (standards) plate. **Pipette ID:** 390993
- 3. Pipette **250  $\mu$ L of 0.5 M ammonium hydroxide** in wells of analytical plate.
- 4. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
- 5. Transfer **300  $\mu$ L of blood or urine+base** mixture to corresponding wells of SLE+ plate.
- 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) Manifold ID: 66792*
- 7. Wait 5 minutes.
- 8. Add **900  $\mu$ L ethyl acetate**.
- 9. Wait 5 minutes.
- 10. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left)*.
- 11. Add **900  $\mu$ L ethyl acetate**.
- 12. Wait 5 minutes.
- 13. Apply positive pressure for approx. 10-15 seconds. *(12-15 PSI- Selector to the left)*.
- 14. 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*
- 15. Reconstitute in **100  $\mu$ L 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				1941-1	2003-1					2014-1		
B	Cal 1			1945-1	2016-1					2064-1	1946-1	
C				1953-2	2032-1						1974-1	
D	internal control urine			1959-1	2045-1						2077-1	
E				1960-1	2096-1						2088-1	
F				1978-1	negative urine							
G				1979-1								
H			negative blood	2000-1								

C2023-\_\_\_\_-

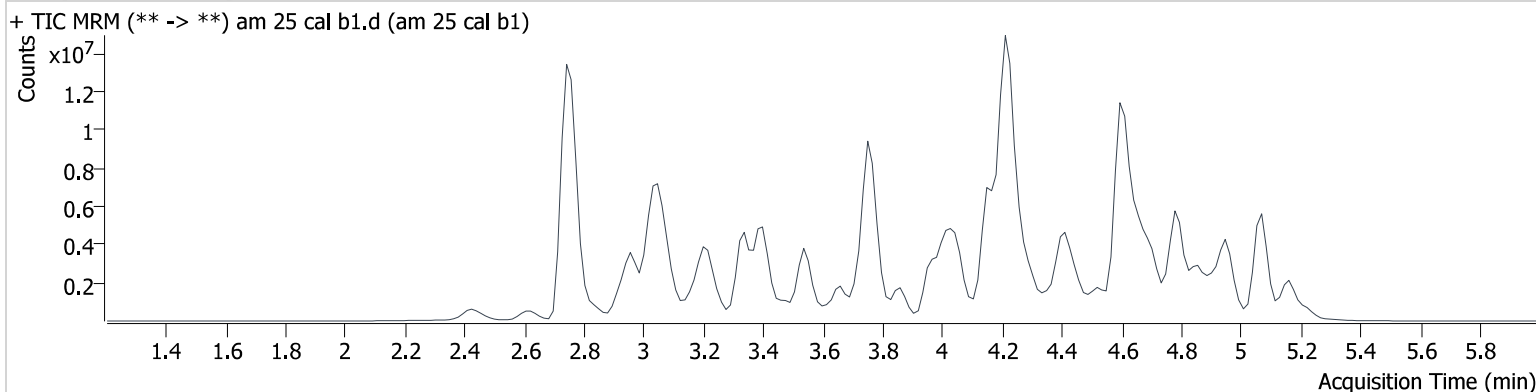
plate position 2

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\mds.batch.bin  
**Calibration Last Update** 9/13/2023 9:24:51 AM

**Instrument** 69679 **Data File** am 25 cal b1.d  
**Type** Cal **Sample** am 25 cal b1  
**Acq. Method** mds713.m **Operator** Anne Nord  
**Sample Position** P2-B1 **Comment**  
**Injection Volume** 2.5  
**Acq. Date-Time** 9/12/2023 11:55:15 AM  
**Sample Info.**

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
10-OH-Carbamazepine	3.867	577546	4444.3	12.0	818670	10.000
6-MAM	3.107	31204	52.6	23857.0	1046228	10.000
7-aminoclonazepam	3.632	169533	72291.2	147486.5	1261710	10.000
7-aminoflunitrazepam	3.848	548655	449.7	119.9	1261710	10.000
9-Hydroxyrisperidone	4.178	3288582	4185.9	52098.1	1261710	10.000
Acetyl Fentanyl	4.183	210631	169.5	62560.8	5060043	10.000
Acetyl Norfentanyl	2.917	157660	1602.1	115.6	12206465	10.000
a-hydroxyalprazolam	4.705	69115	66.7	17853.4	818670	10.000
alpha-hydroxymidazolam	4.765	606958	432.4	851.5	4038209	10.000
alpha-PHP	4.037	1978443	214.9	2296111.0	4552748	10.000
alpha-PVP	3.730	2234765	1004.6	548.1	4552748	10.000
Alprazolam	4.784	886719	480.8	225.3	4038209	10.000
Amitriptyline	4.711	898102	196.4	166.3	3883327	10.000
Amphetamine	2.967	1448062	745.4	2214.0	4552748	10.000
Benzoylecgonine	3.463	26076	200.1	680.2	109745	10.000
Bromazolam	4.856	309516	3327.3	3260.3	4038209	10.000
Brompheniramine	4.276	83847	17928.7	6.8	6020578	10.000
Buprenorphine	5.249	5531	2550.1	10916.3	1600064	10.000
Bupropion	4.053	2339410	1289.7	2047.1	9823398	10.000
Carbamazepine	4.361	3311213	1460.5	1511.3	3919950	10.000
Carisoprodol	4.298	461803	2053.4	100.0	2525695	10.000
Chlordiazepoxide	4.969	243916	703.1	202.7	4038209	10.000
Chlorpheniramine	4.157	3563203	84405.9	19860.4	6020578	10.000
Chlorpromazine	4.966	890937	241496.2	4421.9	3751129	10.000
Citalopram	4.306	1712633	410.8	262243.8	36638449	10.000
Clomipramine	4.966	983469	4070.9	317.2	1623519	10.000
Clonazepam	4.645	167509	338.4	∞	35709	10.000
Clonazolam	4.518	290849	107208.6	33374.1	818670	10.000
clozapine	4.796	2484024	722389.0	1004290.3	11381811	10.000
Cocaethylene	3.969	2419380	994281.7	2577.5	15402997	10.000
Cocaine	3.770	3175060	1072.9	976.0	15402997	10.000
Codeine	3.048	202539	7587.8	4770.0	3919950	10.000



# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Cyclobenzaprine	4.620	1560820	800.3	41.3	3883327	10.000
Desipramine	4.621	2300137	594746.9	1072.9	3883327	10.000
Dextromethorphan	4.266	1146822	246148.8	204590.4	6020578	10.000
Dextrorphan	3.481	1555407	3496.5	375.2	4552748	10.000
Diazepam	5.047	512447	478.4	683.7	4038209	10.000
Dihydrocodeine	2.834	671488	864.0	23591.7	3919950	10.000
Dimethyltriptamine	3.057	1099007	929.6	9844.8	4552748	10.000
Diphenhydramine	4.221	6419027	427.5	470.5	36638449	10.000
Doxepin	4.418	1091072	1196.0	56.2	11381811	10.000
Doxylamine	3.757	4912304	2205.0	2985.3	4552748	10.000
Duloxetine	4.571	34684	12396.7	276.1	1623519	10.000
EDDP	4.234	313165	112829.6	2083.7	1380784	10.000
Estazolam	4.694	1447909	716.0	154.4	4038209	10.000
Etizolam	4.765	58778	27520.9	191200.4	4038209	10.000
Fentanyl	4.412	160903	105.1	101037.0	9492253	10.000
Flualprazolam	4.613	326820	103949.9	136.0	4038209	10.000
Flunitrazepam	4.753	705920	655.2	125078.3	818670	10.000
Fluorofentanyl	4.472	147713	60126.0	141.8	9492253	10.000
Fluoxetine	4.538	1270664	281.2	33547.6	1623519	10.000
Flurazepam	4.517	1920628	709.1	256113.3	1600064	10.000
Hydrocodone	3.263	693080	44861.2	108.9	3919950	10.000
Hydromorphone	2.624	590445	3983.6	904.8	141283	10.000
hydroxyzine	4.900	2409202	900931.5	11739.0	11381811	10.000
Imipramine	4.665	3173263	285085.4	1154.0	3883327	10.000
Ketamine	3.976	1433038	810.9	237.0	5879065	10.000
Lamotrigine	3.728	110090	125.2	46164.8	4552748	10.000
Levamisole	3.193	1127879	1516.5	140.4	15402997	10.000
Levetiracetam	2.601	315461	355.7	579.9	1261710	10.000
Lorazepam	4.614	28066	64.3	94.8	818670	10.000
Maprotiline	4.634	263261	533.4	37.5	3883327	10.000
MDA	3.103	1372715	264.2	130.3	12192455	10.000
MDEA	3.332	2535479	600.5	435.4	12192455	10.000
MDMA	3.178	2230101	722.2	4489.9	12192455	10.000
Meperidine	3.775	1327602	509.3	1583.2	141283	10.000
Meprobamate	3.731	144720	31188.5	25.0	2525695	10.000
Methadone	4.599	3731023	1777.5	1185.9	5060043	10.000
Methamphetamine	3.073	1431848	∞	∞	12192455	10.000
Methocarbamol	3.683	118573	173.4	441.1	2525695	10.000
Methylphenidate	3.668	4312762	84939.0	423.8	6615186	10.000
Metoprolol	3.542	497077	328.6	13283.5	4552748	10.000
Midazolam	4.919	325541	136224.1	78378.9	1261710	10.000
Mirtazapine	4.451	1704949	3373.5	2063.7	1600064	10.000
Mitragynine	4.516	290555	88579.3	622799.5	9492253	10.000
Morphine	2.459	181305	527.5	4149.9	141283	10.000
Norbuprenorphine	3.964	44041	10303.0	18280.9	1600064	10.000
Nordiazepam	4.911	158039	193.4	170.0	4038209	10.000
Norfentanyl	3.422	2494912	891.6	650.6	12206465	10.000
Norhydrocodone	3.004	125368	175.3	178972.7	3919950	10.000
norketamine	4.069	181228	110.3	4465.1	5879065	10.000
Normeperidine	3.729	1355947	357.9	514.6	141283	10.000
Noroxycodone	2.957	820993	∞	2299.3	3919950	10.000
Nortriptyline	4.667	866022	762.9	1368.7	1623519	10.000
O-desmethyl-tramadol	2.961	3664161	10870.0	∞	5060043	10.000
O-Desmethylvenlafaxine	3.342	1102231	1507.0	∞	5060043	10.000
Olanzapine	4.123	1322251	545323.6	5567.8	1623519	10.000
Oxazepam	4.710	114276	58.6	32.6	818670	10.000
Oxycodone	3.077	1276059	223.1	519.9	5879065	10.000
Oxymorphone	2.425	907674	26.2	229.4	141283	10.000
Paroxetine	4.581	142161	254.3	20232.3	1623519	10.000
Phenazepam	4.825	245183	212067.6	752536.6	4038209	10.000



# AM #25 Multi-Drug Screen Results

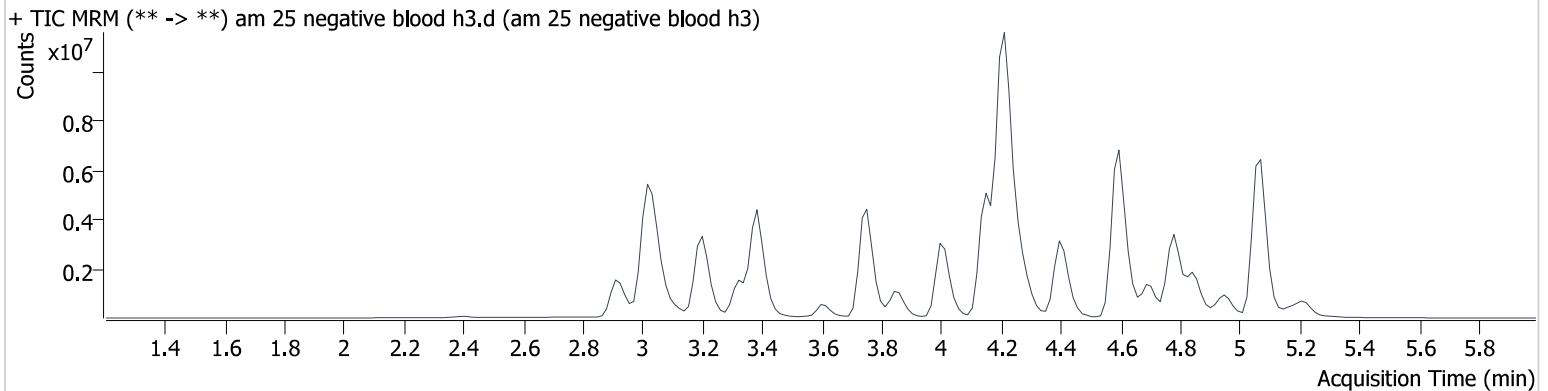
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Phencyclidine	4.052	2993268	2096.8	606.0	5060043	10.000
Phentermine	3.242	554388	∞	50.7	6615186	10.000
Phenytoin	4.252	75218	128.8	14.2	35709	10.000
primidone	3.516	91336	115.0	32.8	35709	10.000
Promethazine	4.664	2815163	137447.2	307.8	3883327	10.000
Pseudoephedrine	2.752	42711884	2880.9	1664.1	6615186	10.000
Quetiapine	4.945	3321751	1421758.8	708105.2	6020578	10.000
Risperidone	4.393	3298537	1365.7	556.6	6020578	10.000
Sertraline	4.876	315627	145484.1	328.8	1623519	10.000
Sufentanil	4.869	143438	41220.5	57030.9	9492253	10.000
Tapentadol	3.562	2478121	1160.1	1157.1	5879065	10.000
Temazepam	4.862	898553	603.0	62.5	4038209	10.000
Topiramate	3.920	7632	2312.3	1732.4	40135	10.000
Tramadol	3.542	7782670	441.4	41.6	1046228	10.000
Trazodone	5.159	3557098	1375888.1	855095.1	5060043	10.000
Venlafaxine	3.956	3818569	539.7	170.7	5060043	10.000
Xylazine	3.485	212422	132.0	1165.7	5060043	10.000
Zaleplon	4.494	644417	176345.9	148851.1	818670	10.000
Zolpidem	4.616	4604763	774029.2	441.1	22089439	10.000
Zopiclone	4.640	380819	539.2	1298.3	1872539	10.000

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\mds.batch.bin  
**Calibration Last Update** 9/13/2023 9:24:51 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative blood h3.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative blood h3
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-H3	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/12/2023 12:08:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

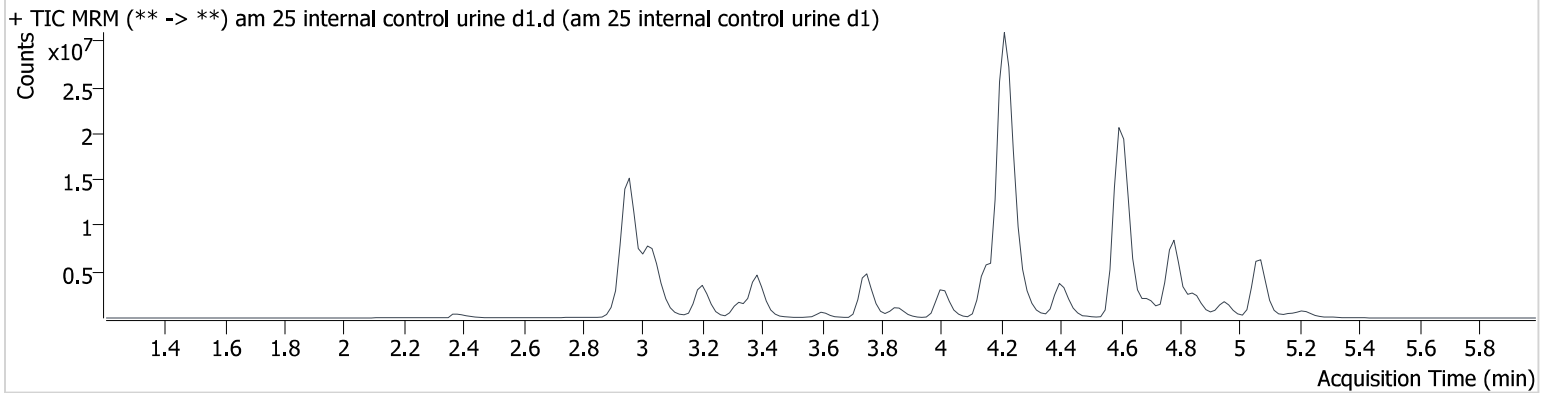


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\mds.batch.bin  
**Calibration Last Update** 9/13/2023 9:24:51 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 internal control urine d1.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 internal control urine d1
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-D1	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/12/2023 12:02:05 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.784	8092112	889.4	1058.2	3995395	92.237
Amphetamine	2.967	15521552	2605.1	1950.7	4900688	99.578
Codeine	3.033	2329164	22787.5	32998.6	4427399	101.818
Diphenhydramine	4.221	53988683	997.8	19346.8	35883809	85.876
Zolpidem	4.616	43279343	10110267.1	73983.1	19998162	103.817

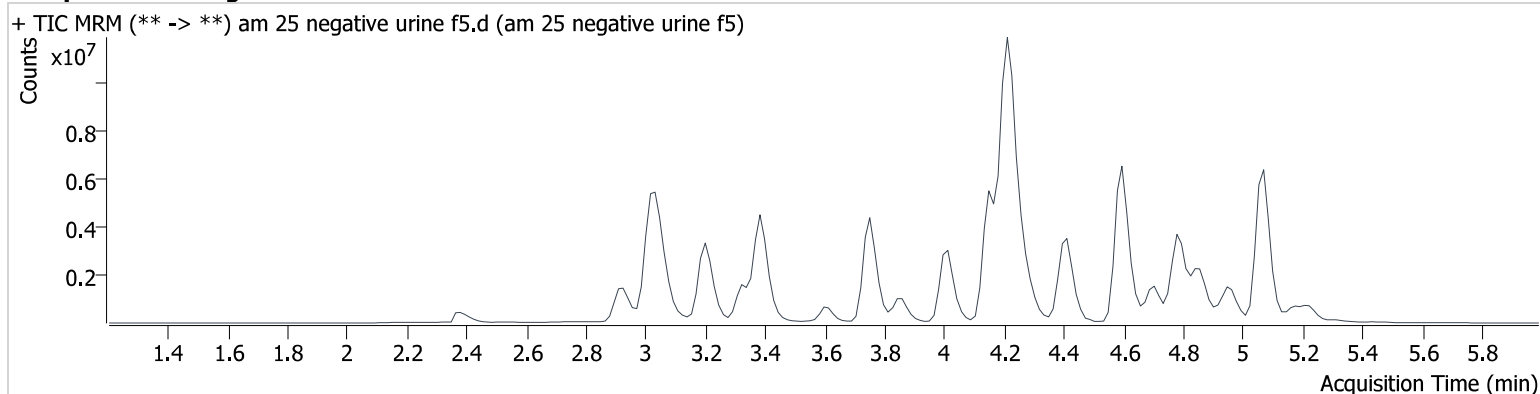


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\mds.batch.bin  
**Calibration Last Update** 9/13/2023 9:24:51 AM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative urine f5.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative urine f5
<b>Acq. Method</b>	mds713.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P2-F5	<b>Comment</b>	
<b>Injection Volume</b>	2.5		
<b>Acq. Date-Time</b>	9/12/2023 1:42:43 PM		
<b>Sample Info.</b>			

## Sample Chromatogram





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

Extraction Date: 9/12/23 Analyst: Anne Nord

Plate lot#: 230627 Plate retest date: 12/27/2023

**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:** 23C57106 **Urine Blank:** 8423

**Column:** Agilent Phenyl Hexyl (4.6x50mm: 2.7 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 **800 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:

Sample C2023-2088-1 was re-injected due to low internal standard response.



	1	2	3	4	5	6
a	cal 1	Internal control urine	1979-1	1946-1		
b	cal 2	negative blood	2000-1	1974-1		
c	cal 3	1941-1	2003-1	2014-1		
d	cal 4	1945-1	2016-1	2064-1		
e	cal 5	1953-2 mixing plate	2032-1	2077-1		
f	cal 6	1959-1	2045-1	2088-1		
g	cal 7	1960-1	2096-1	1978-1 SLE and injection plate		
h	Internal control (blood)	1978-1 mixing plate	negative urine	1953-2 SLE and injection plate		

Plate position 3

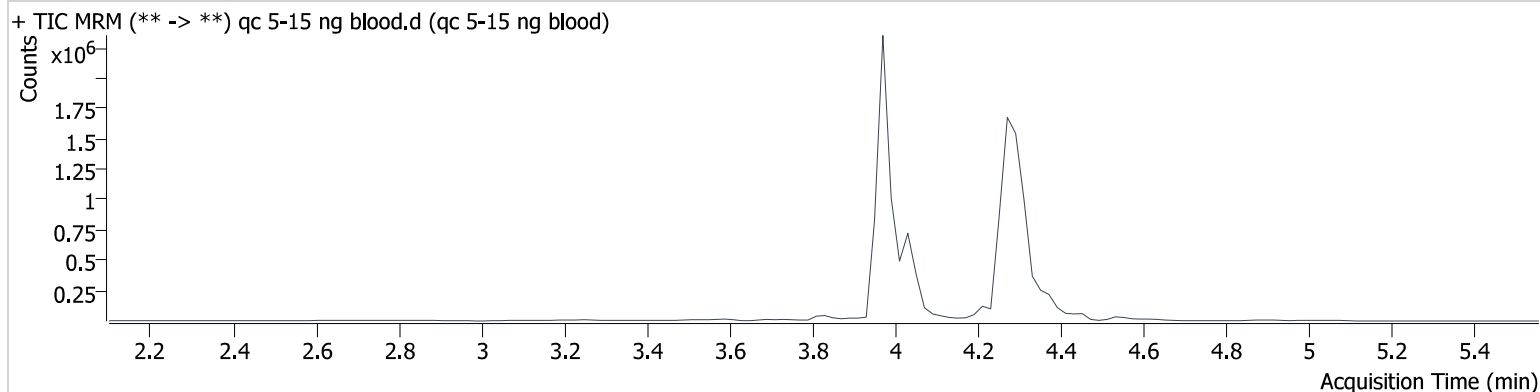
c2023-\_\_\_\_-\_\_

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 4:09:13 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



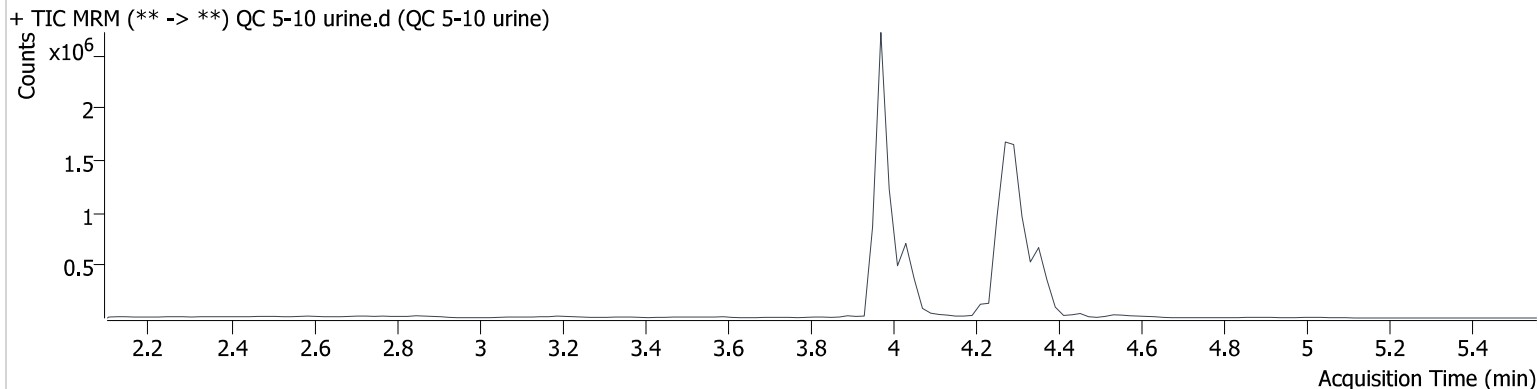
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	11205	266550	4.207 ng/ml
THC-COOH	4.033	217813	1063005	15.160 ng/ml
THC-OH	3.979	34851	4935108	4.669 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 AM

<b>Instrument</b>	69679	<b>Data File</b>	QC 5-10 urine.d
<b>Type</b>	Sample	<b>Sample</b>	QC 5-10 urine
<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>	9/12/2023 4:15:41 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



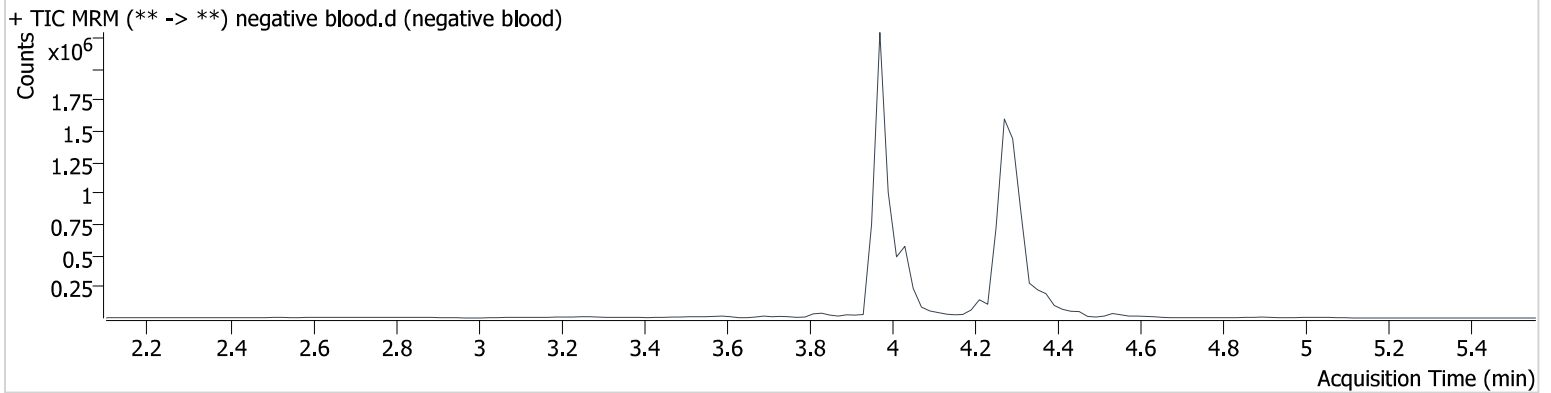
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.365	28408	781343	3.655 ng/ml
THC-COOH	4.033	199389	1040550	14.168 ng/ml
THC-OH	3.979	40201	5760332	4.613 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 4:22:09 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

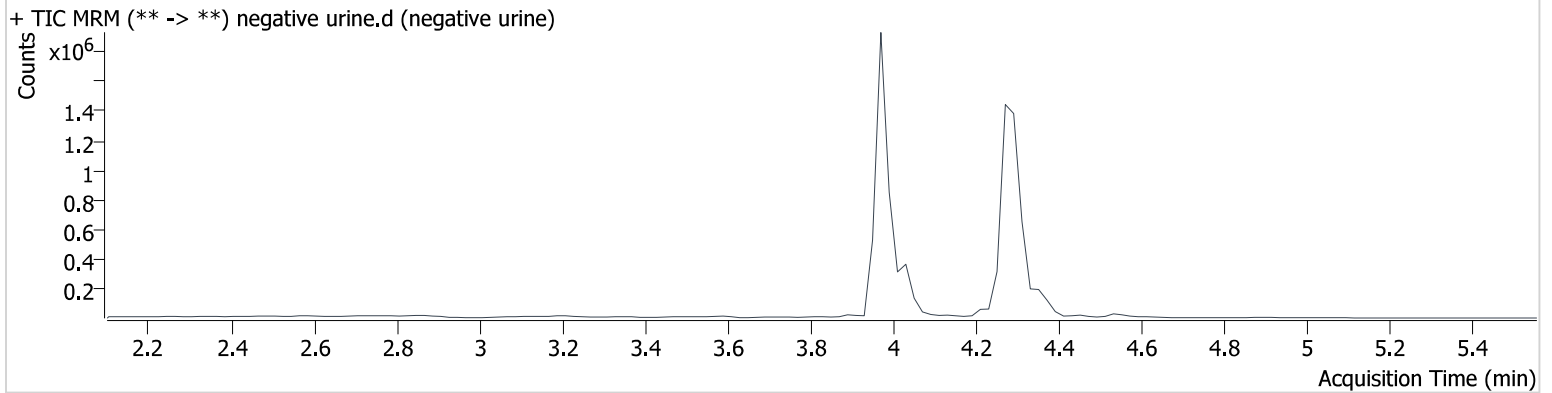


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 AM

<b>Instrument</b>	69679	<b>Data File</b>	negative urine.d
<b>Type</b>	Sample	<b>Sample</b>	negative urine
<b>Acq. Method</b>	am 26 cann scr 5-5-20.m	<b>Operator</b>	Anne Nord
<b>Sample Position</b>	P3-H3	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/12/2023 5:52:43 PM		
<b>Sample Info.</b>			

## Sample Chromatogram

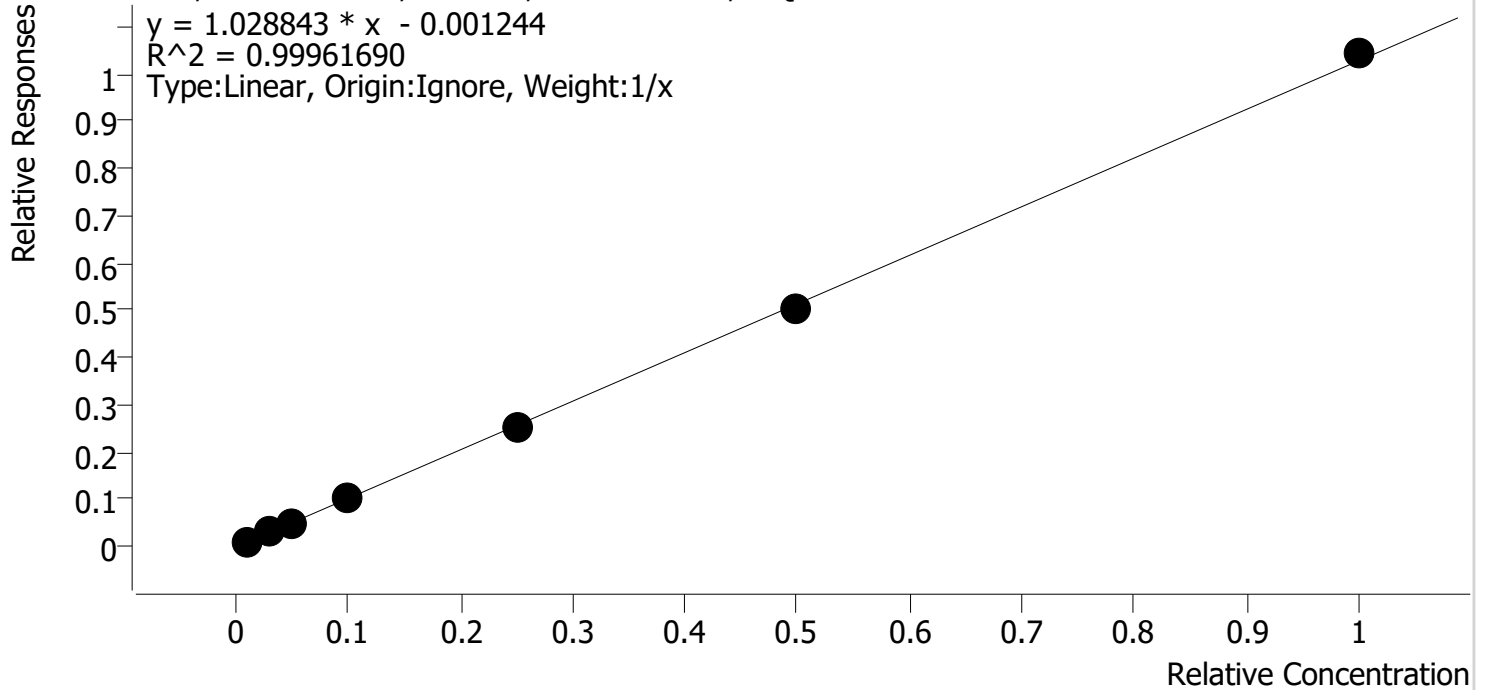


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Last Cal. Update** 9/13/2023 9:22 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	110.2
cal 2	2	✓	3.0	2.9	96.2
cal 3	3	✓	5.0	4.8	96.0
cal 4	4	✓	10.0	9.9	98.6
cal 5	5	✓	25.0	24.8	99.3
cal-6	6	✓	50.0	49.1	98.2
cal-7	7	✓	100.0	101.4	101.4

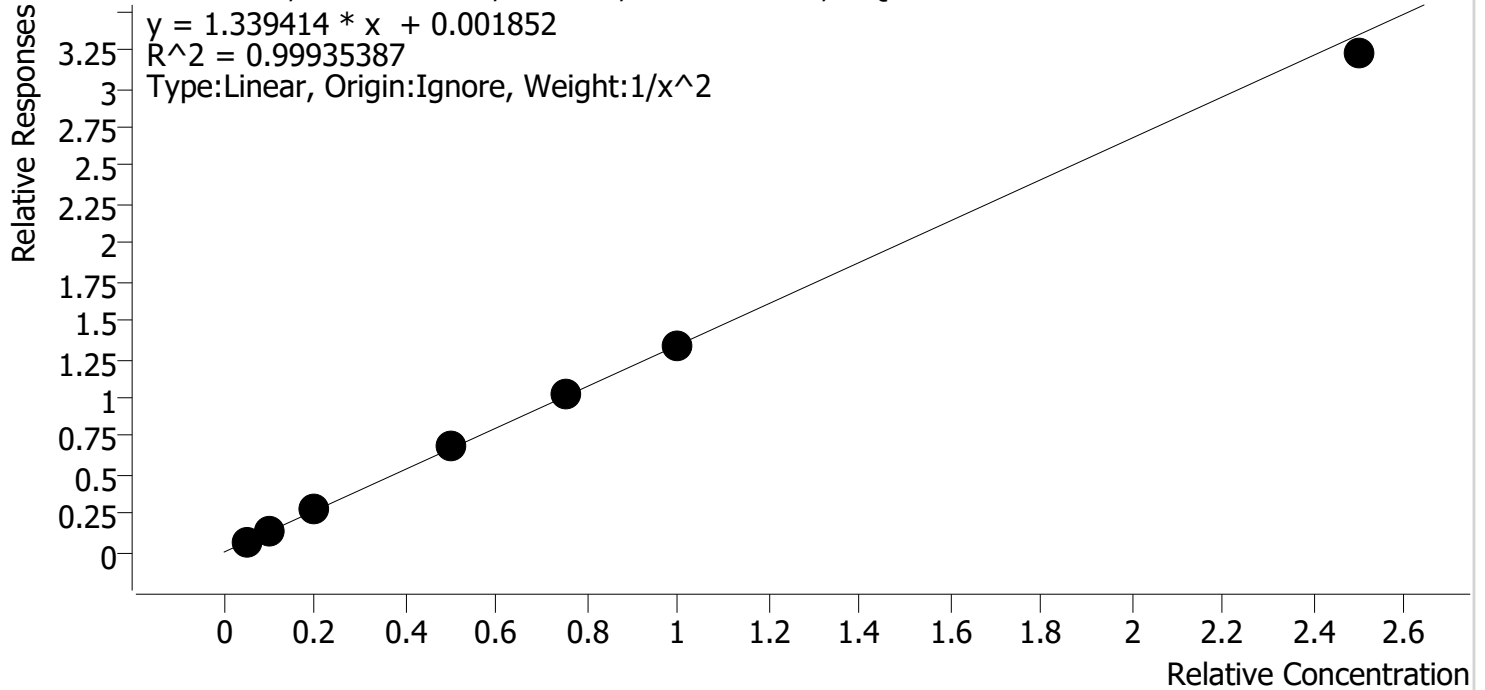


# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Last Cal. Update** 9/13/2023 9:22 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, 0 QCs



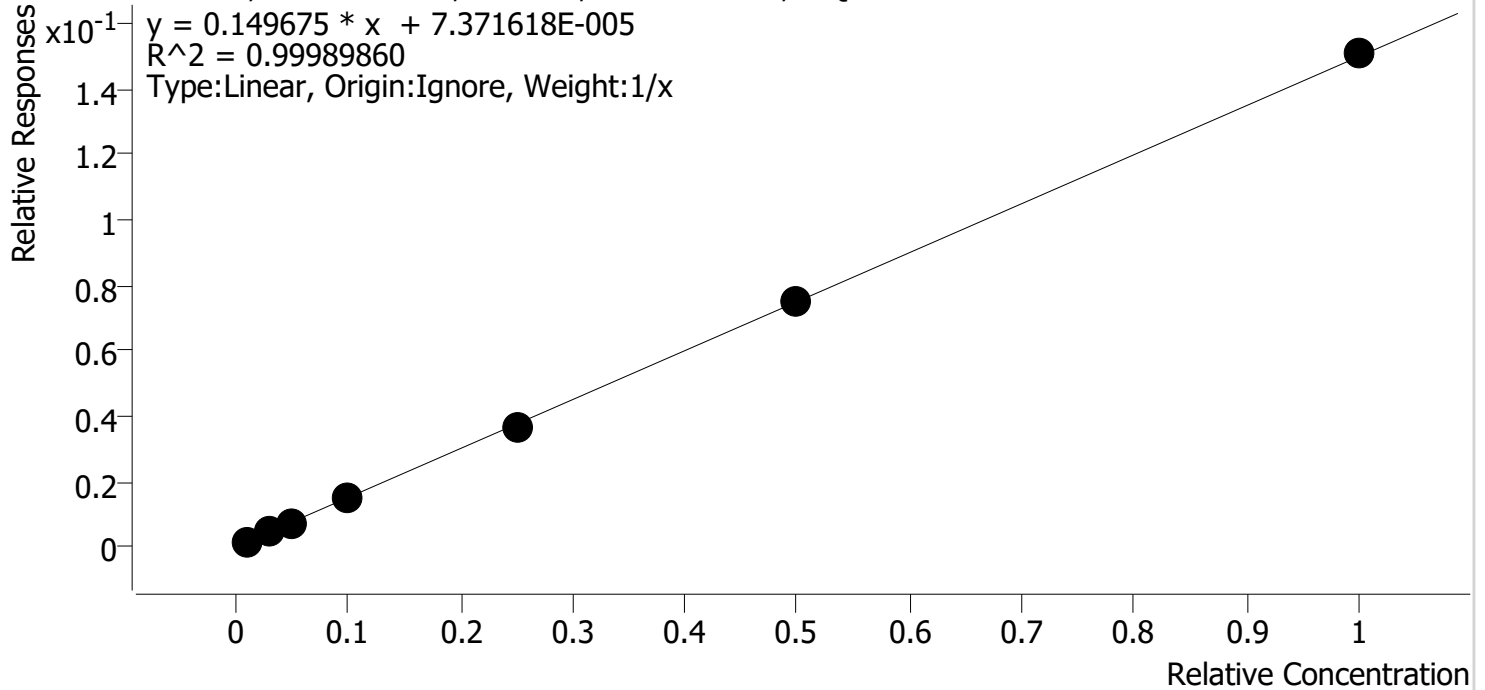
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	4.9	98.9
cal 2	2	✓	10.0	10.1	101.0
cal 3	3	✓	20.0	20.4	101.8
cal 4	4	✓	50.0	51.0	102.0
cal 5	5	✓	75.0	75.9	101.2
cal-6	6	✓	100.0	98.7	98.7
cal-7	7	✓	250.0	240.8	96.3

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Last Cal. Update** 9/13/2023 9:22 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, 0 QCs



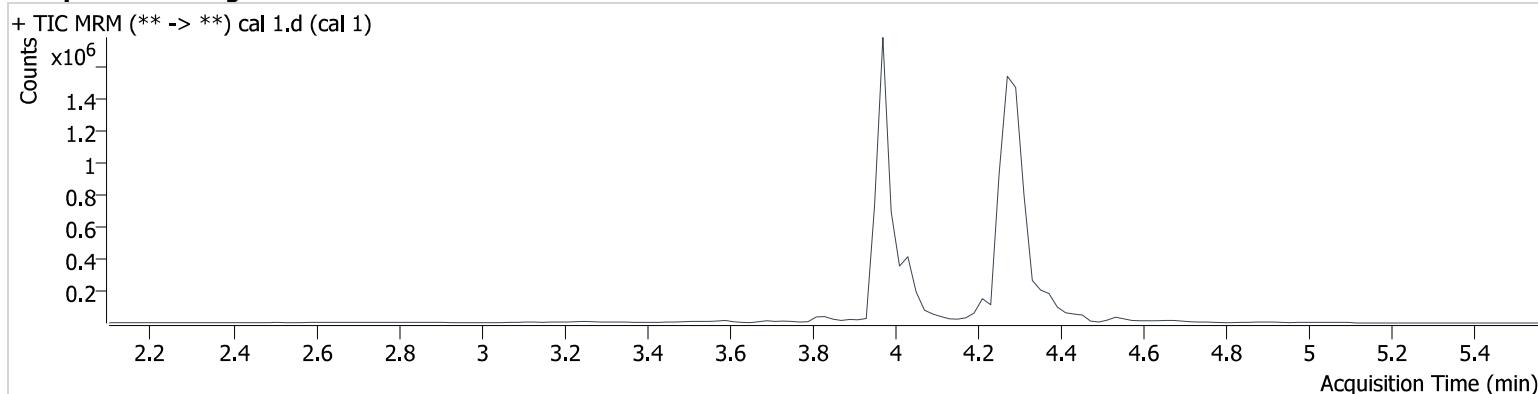
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.0	98.6
cal 2	2	✓	3.0	3.1	104.2
cal 3	3	✓	5.0	5.0	99.7
cal 4	4	✓	10.0	9.9	98.9
cal 5	5	✓	25.0	24.6	98.5
cal-6	6	✓	50.0	49.8	99.6
cal-7	7	✓	100.0	100.6	100.6

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:23:46 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



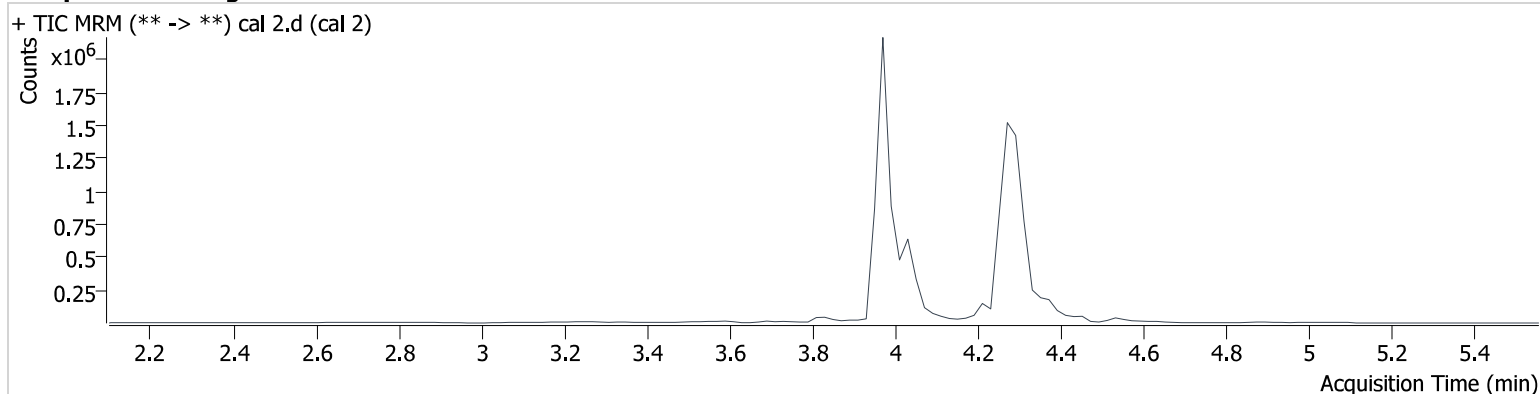
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	2521	249763	1.102 ng/ml <b>Low</b>
THC-COOH	4.033	52694	773925	4.945 ng/ml <b>Low</b>
THC-OH	3.979	6030	3891447	0.986 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:30:24 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



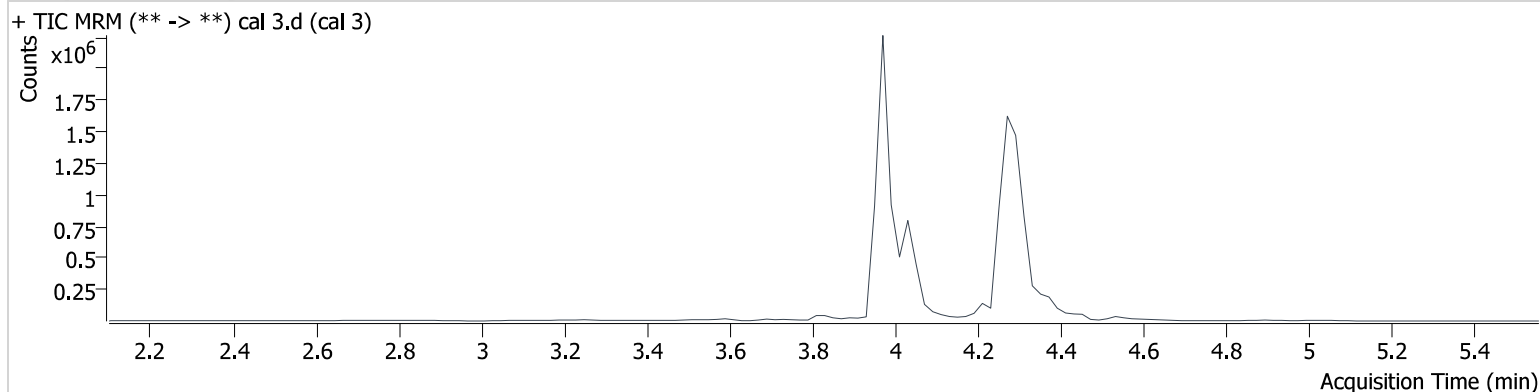
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	6908	242735	2.887 ng/ml <b>Low</b>
THC-COOH	4.033	146921	1071341	10.100 ng/ml
THC-OH	3.979	22049	4639330	3.126 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:36:52 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



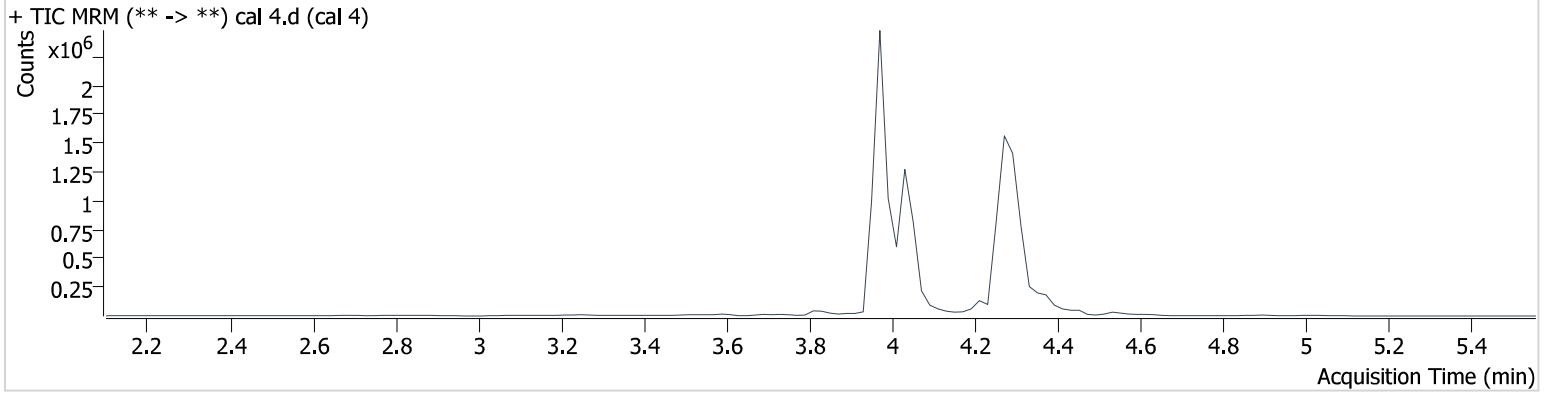
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	11906	247243	4.801 ng/ml
THC-COOH	4.033	296565	1079988	20.363 ng/ml
THC-OH	3.979	36072	4789520	4.983 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:43:20 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



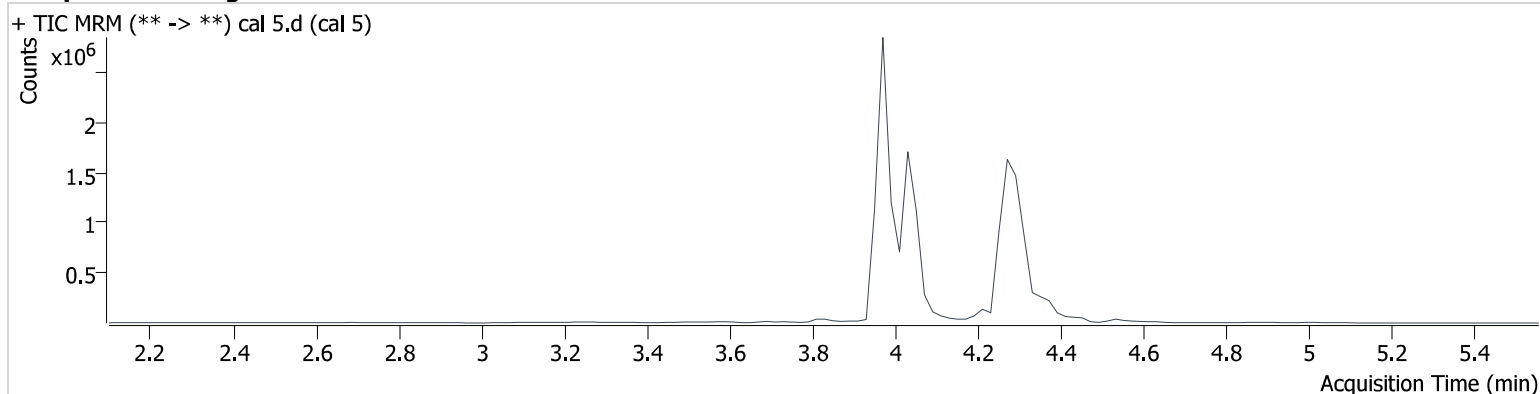
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	24078	240245	9.862 ng/ml
THC-COOH	4.033	755280	1103019	50.984 ng/ml
THC-OH	3.979	73429	4938083	9.886 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:49:48 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



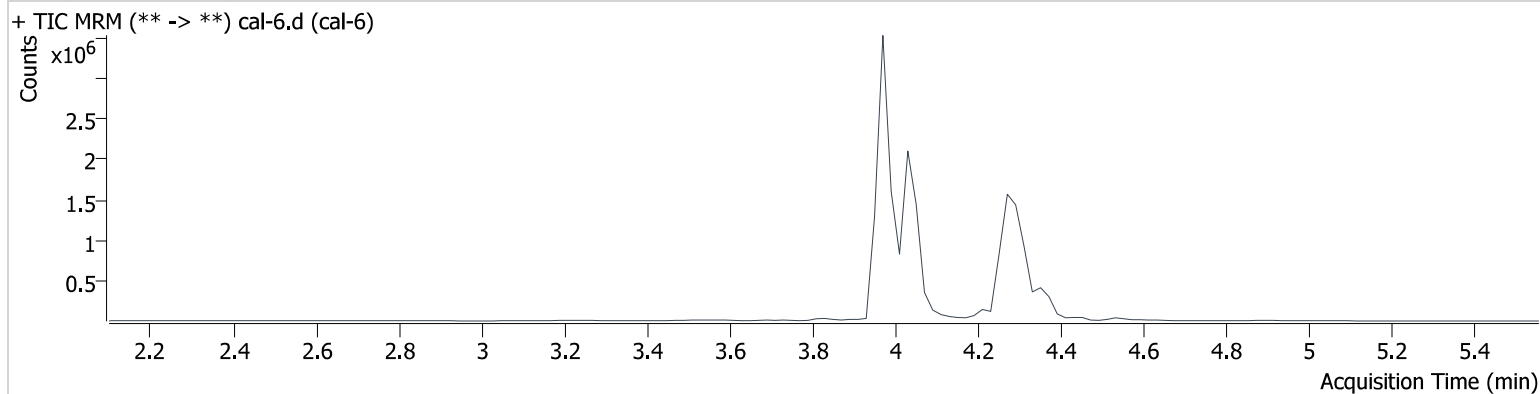
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	71466	281089	24.833 ng/ml
THC-COOH	4.033	1152829	1131405	75.935 ng/ml
THC-OH	3.979	178214	4826120	24.622 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 3:56:16 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.365	213105	423103	49.076 ng/ml
THC-COOH	4.033	1507526	1138200	98.747 ng/ml
THC-OH	3.979	355956	4769868	49.809 ng/ml

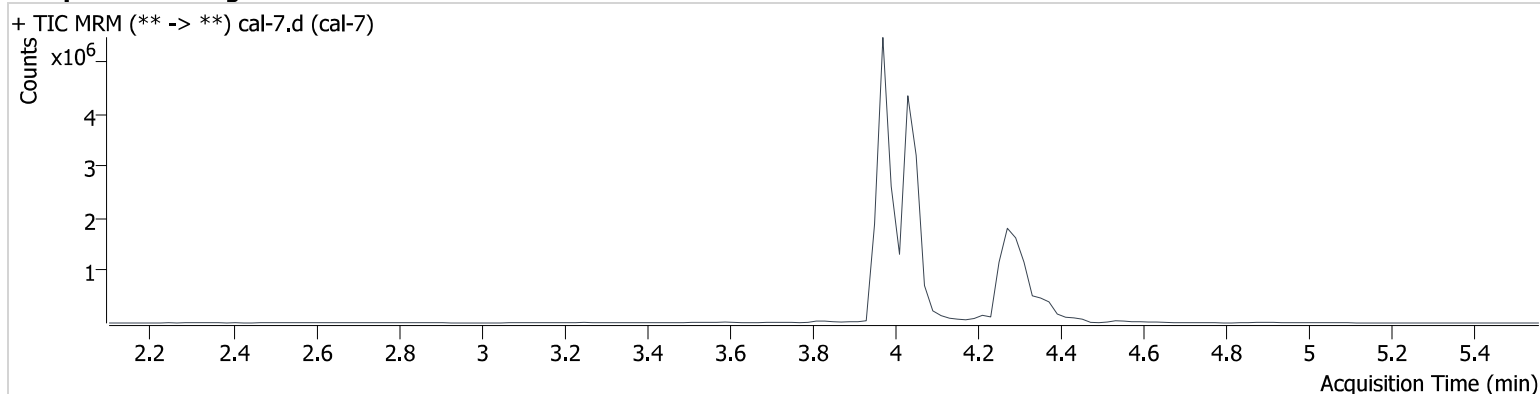


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2023\am 25-26\091223\QuantResults\cann.batch.bin  
**Calibration Last Update** 9/13/2023 9:22:56 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>	9/12/2023 4:02:45 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.385	302457	290155	101.438 ng/ml
THC-COOH	4.033	3675249	1138874	240.795 ng/ml
THC-OH	3.979	779945	5177922	100.588 ng/ml