

4/13/2022

REVIEWED

By Brittany Wylie at 11:20 am, Apr 13, 2022

**Worklist: 5777**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
C2022-0478	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0673	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0686	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0701	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0706	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0712	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0730	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0767	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0773	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0792	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0793	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0800	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0801	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
C2022-0804	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: 4/12/22      Analyst: Anne Nord  
Plate lot#: 211015      Plate retest date: 04/15/22

**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:** 22B52020 **Blank Urine lot:**      **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. Pipette 250 µL 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 µL 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 µL 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 µL 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 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: *Blood only run*  
*C2022-0792-1 SLE well clogged transferred approximately 200ul to a new well, this aliquot was evaluated.*

**Request for Departure from an Analytical Method or Quality Standard**

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Deviation Number (assigned by QM): TOX-22-01

Date of Request: **2/3/2022**

Requestor/Discipline: Celena Shrum/Toxicology

Analytical Method/Quality Standard, Revision #: AM #25, AM #28, AM #29, Revision 13

Temporary or Permanent Deviation: Permanent

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**Scope of Deviation** (record specific information, e.g. affected programs, evidence types, expected end date; etc): Deviation will remain in place until the change is made in the next method revision.

**Deviation Request** (Describe detailed instructions of the changes being made; include reference to specific section number(s) in the method manual): 4.1.4 (Place plate on shaking incubator at approximately 900 rpm for approximately 15 minutes) of AM #25, AM # 28, and AM #29 is being removed. The removal of this step was tested in the validation “Addition of Compounds/Modifications for the MDS” (approved on 2/2/2022) and it was determined that that step is not necessary and can be removed.

**Technical Justification for Analytical Method Deviations:** Refer to validation “Addition of Compounds/Modifications for the MDS” (approved on 2/2/2022)

**Technical Review**

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Departure approved  
Comments:

Departure Not Approved  
Comments:

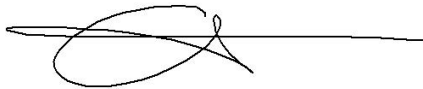
Approver: Rachel Cutler  
Title: Laboratory Manager

Date: 2/10/2022

**Quality Review**

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Quality Approver: Jason Crowe  
Title: Quality Manager  
Date: 2/10/2022

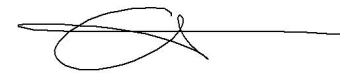


	1	2	3	4	5	6	7	8	9	10	11	12
A	Cal 1	712-1	804-1									
B		730-1	792-1									
C	neg blood	767-2										
D	478-1	773-1										
E	673-1	792-1 *										
F	686-1	793-1										
G	701-1	800-1										
H	706-1	801-1										

C2022-0\_\_

\* well clogged, new aliquot taken and placed in another well

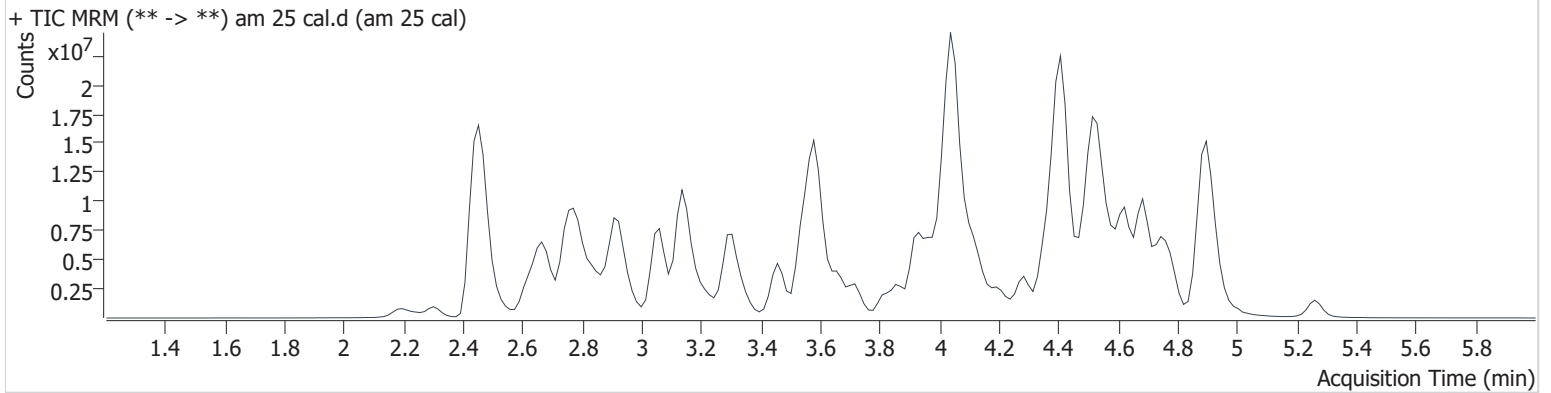
# AM #25 Multi-Drug Screen Results



**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/12/2022 1:21:41 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 cal.d
<b>Type</b>	Cal	<b>Sample</b>	am 25 cal
<b>Acq. Method</b>	mds713.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>	4/12/2022 11:21:23 AM		

## Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.998	60916	107.1	99.7	1640511	10.000
7-aminoclonazepam	3.355	839049	317.7	244.7	3384356	10.000
7-aminoflunitrazepam	3.584	1446114	2604999.6	163.7	3384356	10.000
Acetyl Fentanyl	4.285	443630	219.4	66648.1	27633586	10.000
Acetyl Norfentanyl	2.656	299305	2720.3	313.1	27633586	10.000
a-hydroxyalprazolam	4.378	338800	136.6	75758.2	3384356	10.000
alpha-hydroxymidazolam	4.469	2659829	381.8	861.8	3384356	10.000
alpha-PHP	3.986	2698986	2611.9	347.9	9710362	10.000
alpha-PVP	3.666	4013714	8159.8	458.6	9710362	10.000
Alprazolam	4.489	1870000	483.9	328.3	13847019	10.000
Amitriptyline	4.600	1751950	178.4	458.1	9682814	10.000
Amphetamine	2.662	4053831	841.5	4841.3	9710362	10.000
Benzoylcegonine	3.123	142011	79812.2	8050.7	323030	10.000
Brompheniramine	4.071	99591	31.2	36.9	47426615	10.000
Buprenorphine	5.273	126103	5906.8	566.4	3304076	10.000
Bupropion	3.987	3958877	1412.4	1086.2	17321341	10.000
Carbamazepine	4.064	5727657	1879.1	480.1	156106	10.000
Carisoprodol	4.047	1006899	1502479.6	361.7	5521730	10.000
Chlordiazepoxide	4.613	724714	2355.6	912.8	13847019	10.000
Chlorpheniramine	3.968	6004639	14317.0	122.9	47426615	10.000
Citalopram	4.054	2605285	948.6	171.3	47426615	10.000
Clomipramine	4.870	3853157	1192773.4	1182.1	7670919	10.000
Clonazepam	4.286	973611	835.2	267.8	13847019	10.000
Clonazolam	4.206	1335248	460.1	241712.7	13847019	10.000
Cocaethylene	3.810	3896109	834.4	1018.6	47426615	10.000
Cocaine	3.611	4840752	1495.9	594.6	28745073	10.000
Codeine	2.954	463667	966.8	845.4	232900	10.000
Cyclobenzaprine	4.477	3817042	3906.1	150.3	9682814	10.000
Desipramine	4.370	5854683	3854.2	2997.9	9682814	10.000
Dextromethorphan	4.138	2236127	5647.9	2093.4	11887196	10.000
Dextrorphan	3.281	2434729	656.0	544.1	11887196	10.000
Diazepam	4.751	1074226	8634.7	741.5	13847019	10.000
Dihydrocodeine	2.694	1125625	367.4	484.1	3293071	10.000
Diphenhydramine	4.047	7939341	18894.6	2360.1	47426615	10.000

# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.275	2210774	1065.8	166.1	22988279	10.000
Doxylamine	3.570	8183807	∞	∞	4944755	10.000
EDDP	4.014	1477302	233.4	86.8	3293071	10.000
Estazolam	4.398	4149145	1145.2	753.4	13847019	10.000
Etizolam	4.515	186671	54615.9	504.2	13847019	10.000
Fentanyl	4.516	328163	129.0	375.6	22702358	10.000
Flualprazolam	4.347	733971	6914.6	1278.3	13847019	10.000
Flunitrazepam	4.426	1801647	1088.9	4096.6	13847019	10.000
Fluoxetine	4.287	4080762	11846.7	494209.6	9390536	10.000
Flurazepam	4.544	3108415	1332267.6	2057749.7	13847019	10.000
Hydrocodone	3.245	1486257	2095.8	626.6	8655779	10.000
Hydromorphone	2.501	1028898	583.5	1599.2	232900	10.000
Imipramine	4.522	6158962	760.1	930.5	9682814	10.000
Ketamine	3.972	2840714	1562.7	367.9	19832770	10.000
Lamotrigine	3.434	261119	553.1	743.7	47426615	10.000
Levamisole	3.085	2133117	5574.7	520.1	11887196	10.000
Levetireacetam	2.310	1086768	∞	1147.6	7670919	10.000
Lorazepam	4.285	294765	970.7	∞	13847019	10.000
Maprotiline	4.599	1008380	665.8	69.5	9682814	10.000
MDA	2.796	2560709	958.2	142.9	25795399	10.000
MDEA	3.069	3578499	438.9	8263.0	25795399	10.000
MDMA	2.902	4377038	401.3	663.7	25795399	10.000
Meperidine	3.679	2538306	431.1	812.3	11887196	10.000
Meprobamate	3.437	589973	286.6	424.2	5521730	10.000
Methadone	4.395	5609276	447.3	289.2	3293071	10.000
Methamphetamine	2.798	6653359	∞	6840.2	25795399	10.000
Methocarbamol	3.343	219405	1005.9	335.7	3293071	10.000
Methylphenidate	3.466	8772534	2434.1	498.1	19832770	10.000
Metoprolol	3.280	650696	764.6	3626.2	11887196	10.000
Midazolam	4.670	643239	286236.6	231359.6	13847019	10.000
Mirtazapine	4.555	3170985	2627.7	947.9	11887196	10.000
Mitragynine	4.528	504003	1201.1	906.6	11887196	10.000
Morphine	2.259	254609	1961.7	700.3	232900	10.000
Norbuprenorphine	3.805	88566	24226.2	42365.3	232900	10.000
Nordiazepam	4.570	922184	1002.0	562.9	13847019	10.000
Norfentanyl	3.160	5111594	131219.5	474.5	27633586	10.000
Norhydrocodone	2.743	60991	104.4	49.7	8655779	10.000
norketamine	3.942	578921	205.5	6444.9	19832770	10.000
Normeperidine	3.482	2412597	8469.1	217.8	47426615	10.000
Noroxycodone	2.665	1687585	138.8	331.9	12936856	10.000
Nortriptyline	4.416	2450425	2118118.8	436.6	9682814	10.000
O-desmethyl-tramadol	2.685	6485615	1447.7	523.8	47426615	10.000
Olanzapine	4.087	1821257	1779.2	433.4	156106	10.000
Oxazepam	4.367	1261590	275.3	151.2	5317439	10.000
Oxycodone	2.892	2633399	1594.4	238.9	12936856	10.000
Oxymorphone	2.195	1576359	308.9	204.3	232900	10.000
Paroxetine	4.346	569809	267.9	1000.0	9390536	10.000
Phenazepam	4.515	1285046	738985.6	∞	13847019	10.000
Phencyclidine	3.879	4520961	263.4	288.0	11887196	10.000
Phentermine	2.949	56891	81.0	∞	19832770	10.000
Phenytol	3.955	263150	313.8	153.1	156106	10.000
Promethazine	4.629	7826909	665.9	253.9	47426615	10.000
Pseudoephedrine	2.462	57641843	27940.5	32776.4	25795399	10.000
Quetiapine	4.743	4938117	1579028.9	1144444.4	37022359	10.000
Sertraline	4.642	1848111	1374203.7	2110512.0	9390536	10.000
Sufentanil	4.956	369536	3245.6	600.6	27633586	10.000
Tapentadol	3.299	4394557	1787.4	1007.3	3293071	10.000
Temazepam	4.536	2571943	1905.7	142.4	13847019	10.000



# AM #25 Multi-Drug Screen Results

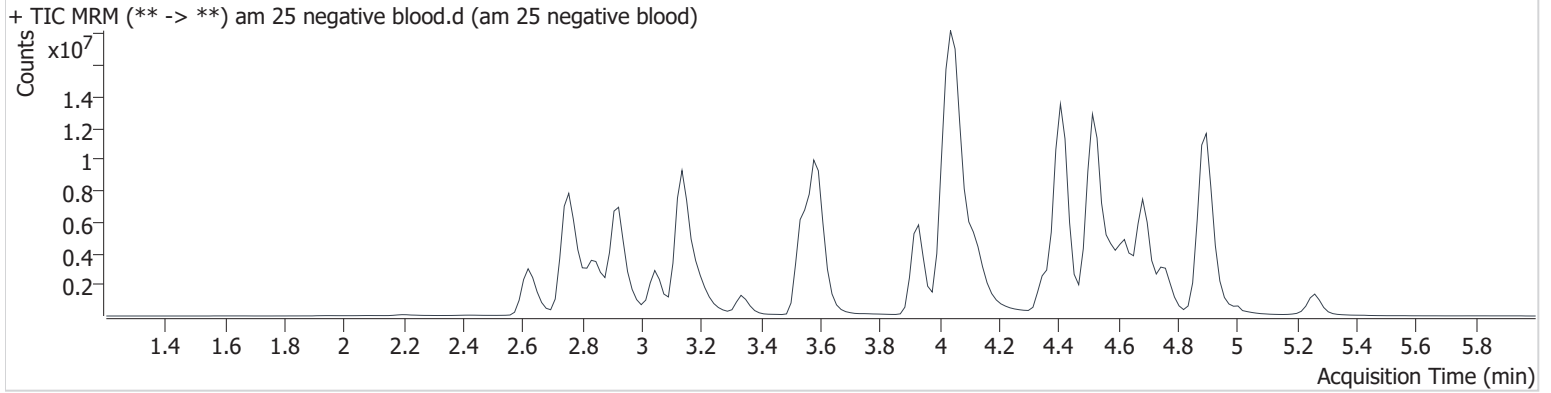
Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Tramadol	3.311	7066024	2342.7	38.2	47426615	10.000
Trazodone	4.911	5037982	1324.0	1282.3	22988279	10.000
Venlafaxine	3.721	5425718	1783.0	294.5	9390536	10.000
Zaleplon	4.196	1830246	1272531.9	1216.2	37022359	10.000
Zolpidem	4.427	7740949	3777.3	3345.4	37022359	10.000
Zopiclone	4.420	958579	467199.8	654.2	4944755	10.000

# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\mds.batch.bin  
**Calibration Last Update** 4/12/2022 1:21:41 PM

<b>Instrument</b>	69679	<b>Data File</b>	am 25 negative blood.d
<b>Type</b>	Sample	<b>Sample</b>	am 25 negative blood
<b>Acq. Method</b>	mds713.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>	4/12/2022 11:28:09 AM		
<b>Sample Info.</b>			

## Sample Chromatogram







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

Extraction Date: 4/12/22 Analyst: Anne Nord

Plate lot#: 211018 Plate retest date: 4/18/22

**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:** 22B52020 **Urine Blank:**

**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:

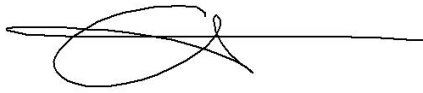
- 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- 2. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.  
Pipette 1000 µL blood (calibrated pipette) in wells of analytical (standards) 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 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: Blood only run.

C2022-0792-1 on step 6 the SLE well clogged, a new aliquot of ~ 700 ul was added to another well, that aliquot was evaluated.



	1	2	3	4	5	6
a	cal 1	792-1**	730-1			
b	cal 2	negative blood	767-2			
c	cal 3	478-1	773-1			
d	cal 4	673-1	792-1 *			
e	Cal 5	686-1	793-1			
f	cal 6	701-1	800-1			
g	cal 7	706-1	801-1			
h	Internal control (blood)	712-1	804-1			

c2022-0\_\_\_\_-\_\_

\* well clogged on SLE plate new aliquot taken and placed in A2

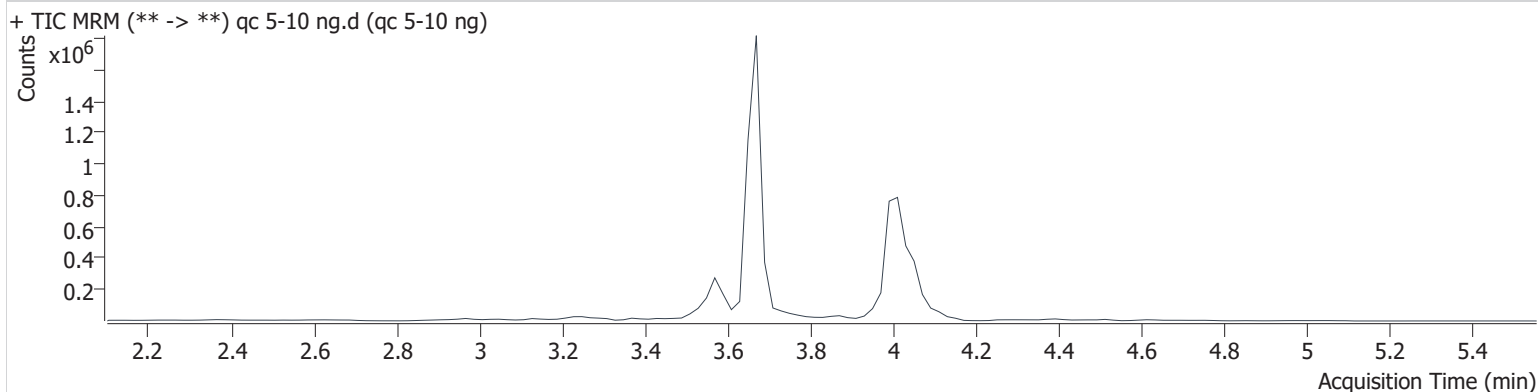
\*\* placed here on SLE plate, came from spot D3 on standard plate.

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 AM

<b>Instrument</b>	69679	<b>Data File</b>	qc 5-10 ng.d
<b>Type</b>	QC	<b>Sample</b>	qc 5-10 ng
<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>	4/12/2022 2:16:12 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



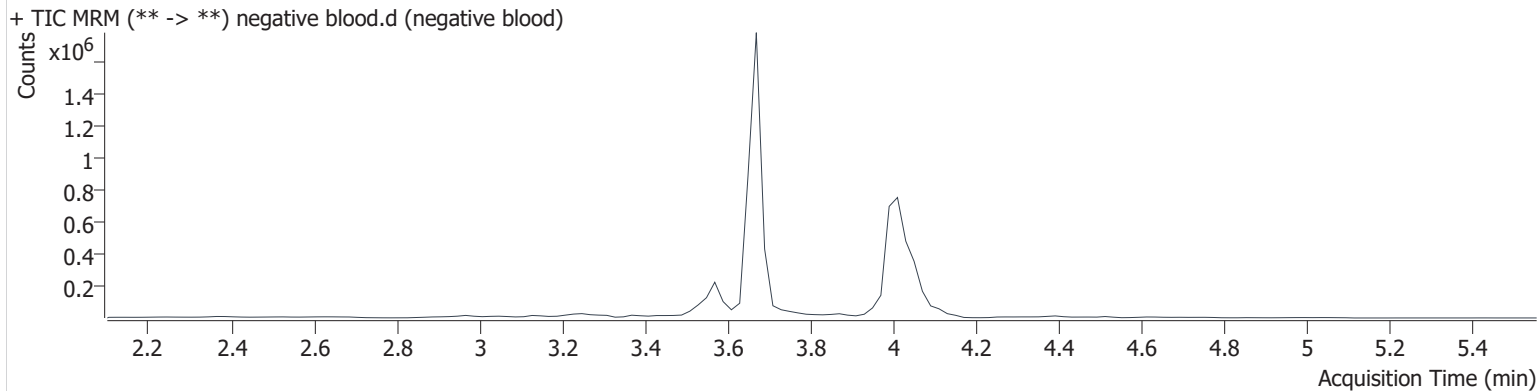
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	14688	390243	4.629 ng/ml
THC-COOH	3.592	94803	483261	16.221 ng/ml
THC-OH	3.679	35601	3900978	5.121 ng/ml

# AM #26 Cannabinoids Screen Results

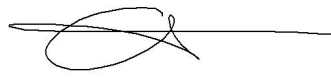
**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 AM

<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>	4/12/2022 2:22:49 PM		
<b>Sample Info.</b>			

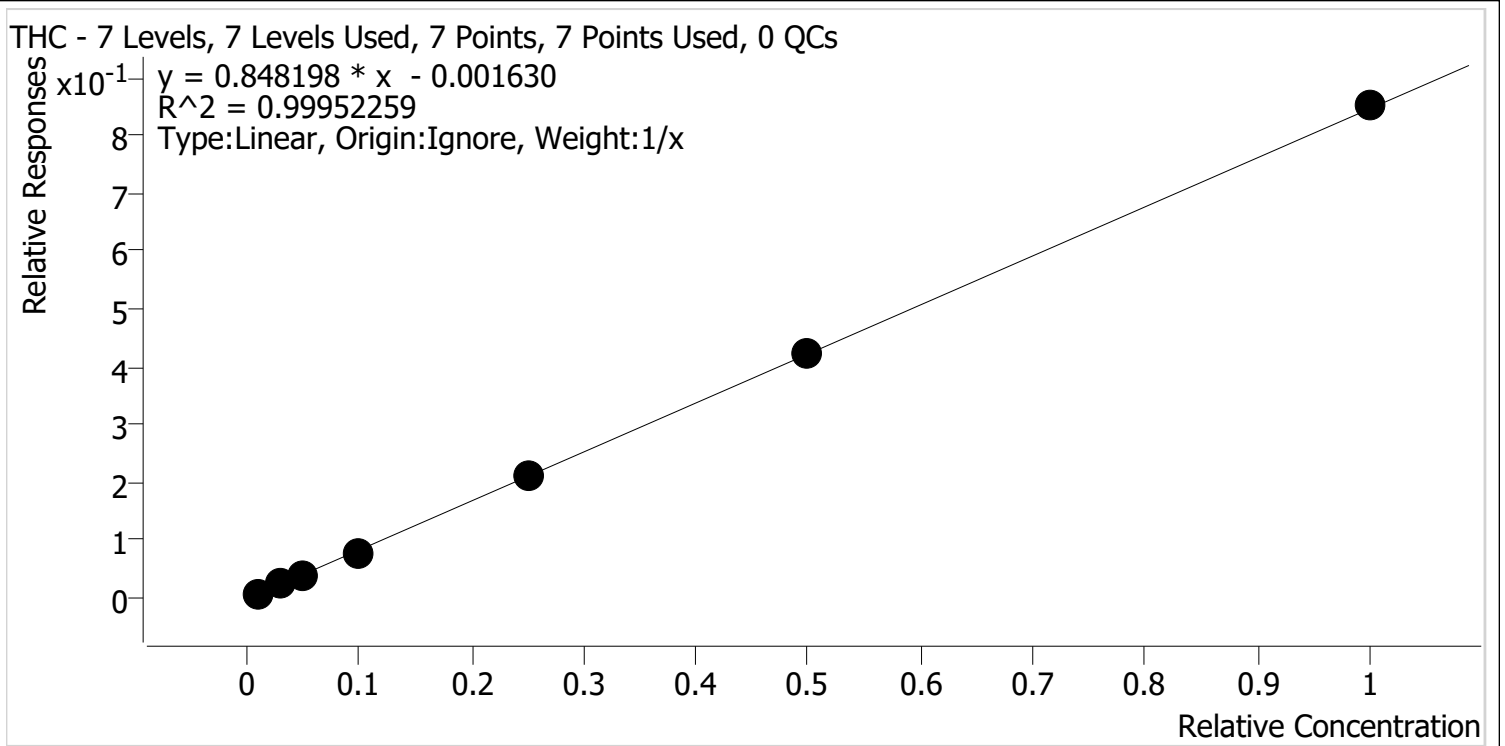
## Sample Chromatogram



# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Last Cal. Update** 4/13/2022 10:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC **Internal Standard** THC-d3



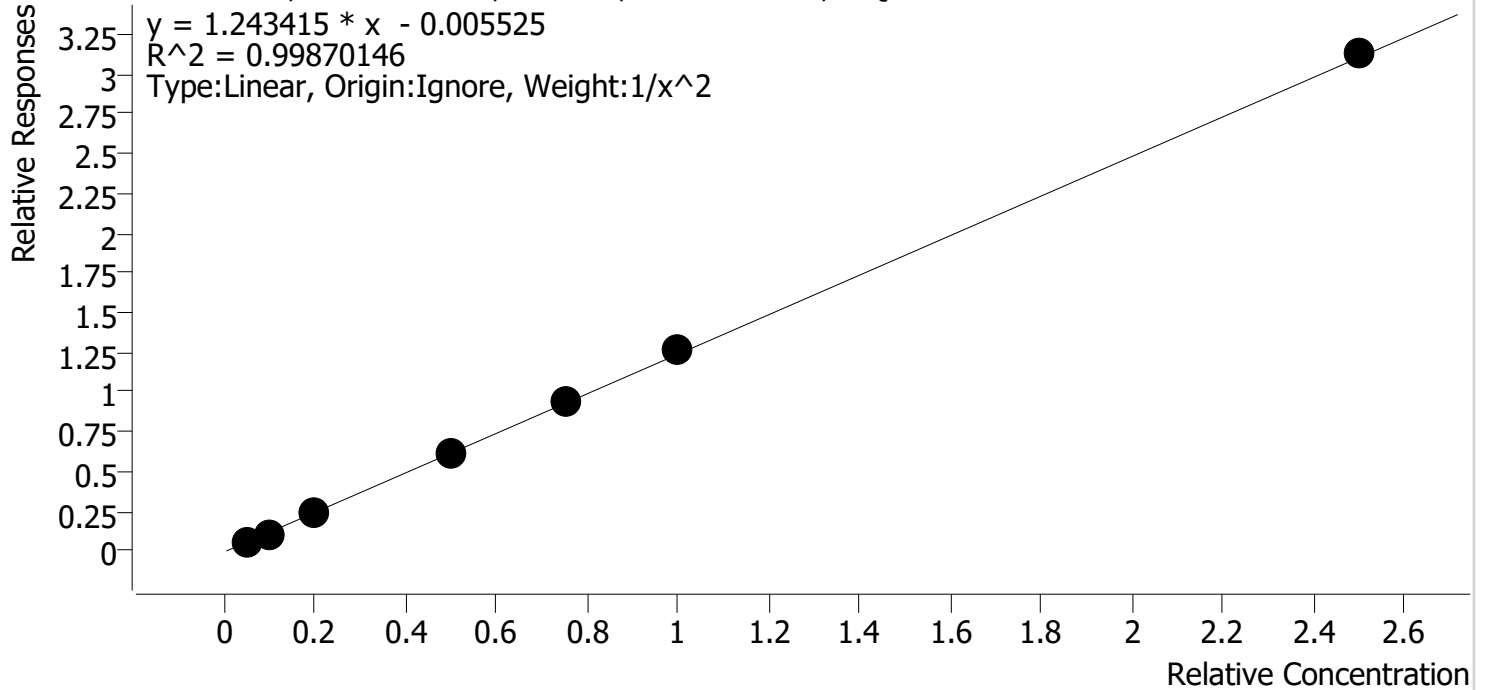
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	109.8
cal 2	2	✓	3.0	2.9	98.0
cal 3	3	✓	5.0	4.9	97.7
cal 4	4	✓	10.0	9.3	92.6
cal 5	5	✓	25.0	25.4	101.7
cal-6	6	✓	50.0	49.8	99.6
cal-7	7	✓	100.0	100.6	100.6

# Compound Calibration Report



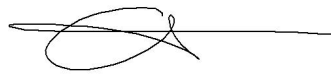
**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Last Cal. Update** 4/13/2022 10:40 AM  
**Analyst Name** ISP\datastor  
**Analyte** THC-COOH **Internal Standard** THC-COOH-d9

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



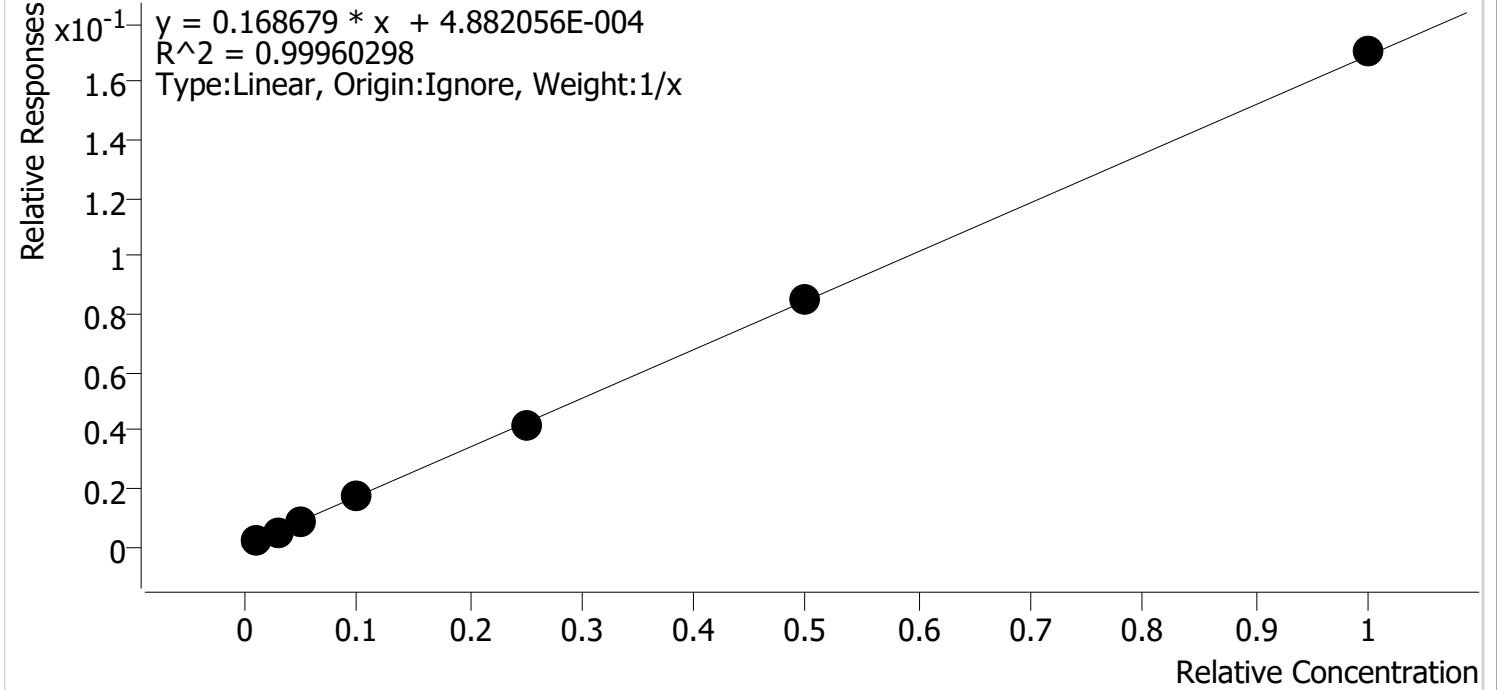
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	5.0	5.1	102.8
cal 2	2	✓	10.0	9.4	93.8
cal 3	3	✓	20.0	20.2	100.8
cal 4	4	✓	50.0	49.6	99.1
cal 5	5	✓	75.0	76.0	101.3
cal-6	6	✓	100.0	101.4	101.4
cal-7	7	✓	250.0	252.0	100.8

# Compound Calibration Report



**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Last Cal. Update** 4/13/2022 10:40 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



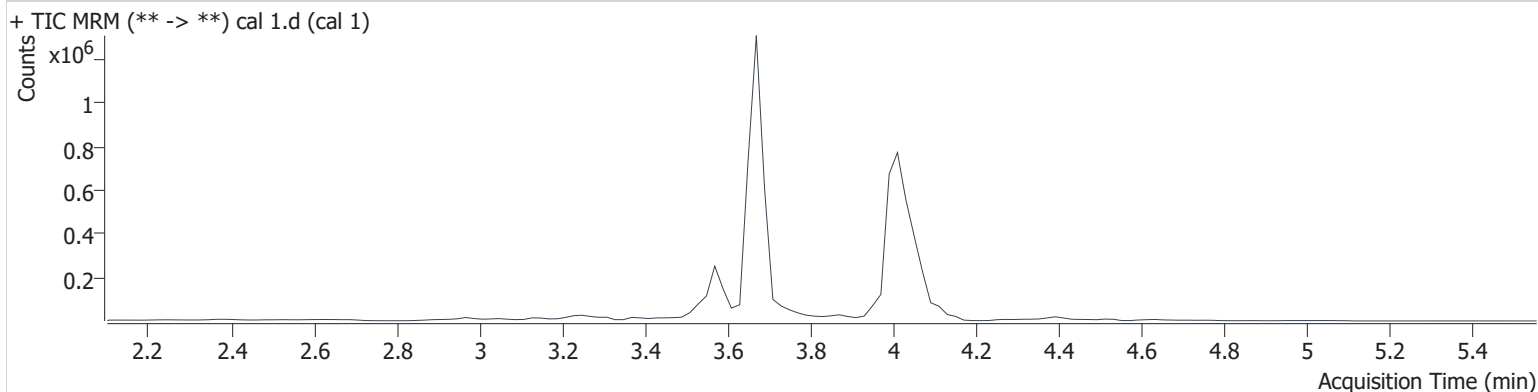
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
cal 1	1	✓	1.0	1.1	113.7
cal 2	2	✓	3.0	2.8	94.5
cal 3	3	✓	5.0	4.7	94.9
cal 4	4	✓	10.0	9.8	97.9
cal 5	5	✓	25.0	24.4	97.8
cal-6	6	✓	50.0	50.2	100.4
cal-7	7	✓	100.0	100.8	100.8

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 1:29:52 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	3629	472162	1.098 ng/ml <b>Low</b>
THC-COOH	3.592	30519	522514	5.142 ng/ml <b>Low</b>
THC-OH	3.679	7991	3321435	1.137 ng/ml <b>Low</b>

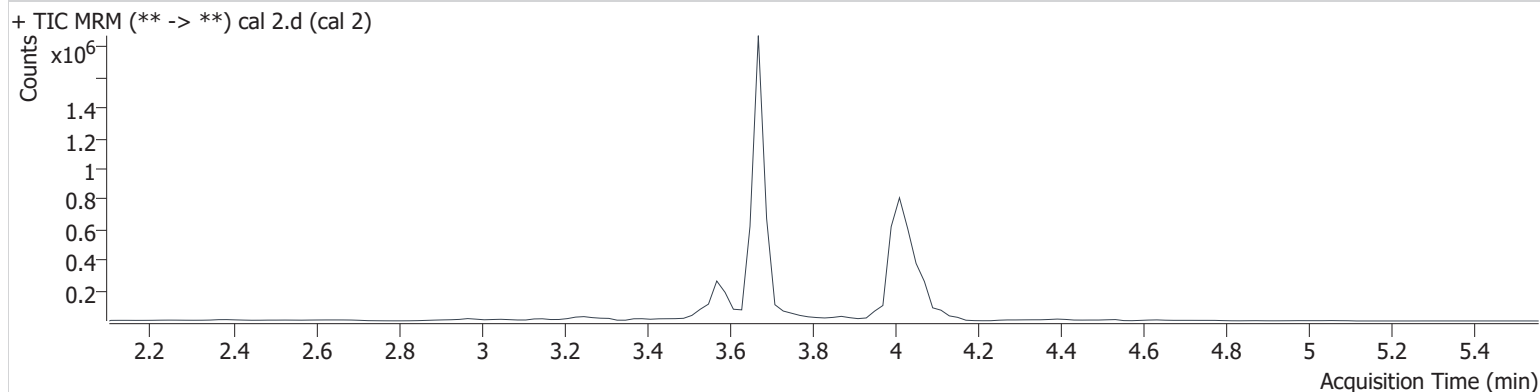


# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 1:36:30 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



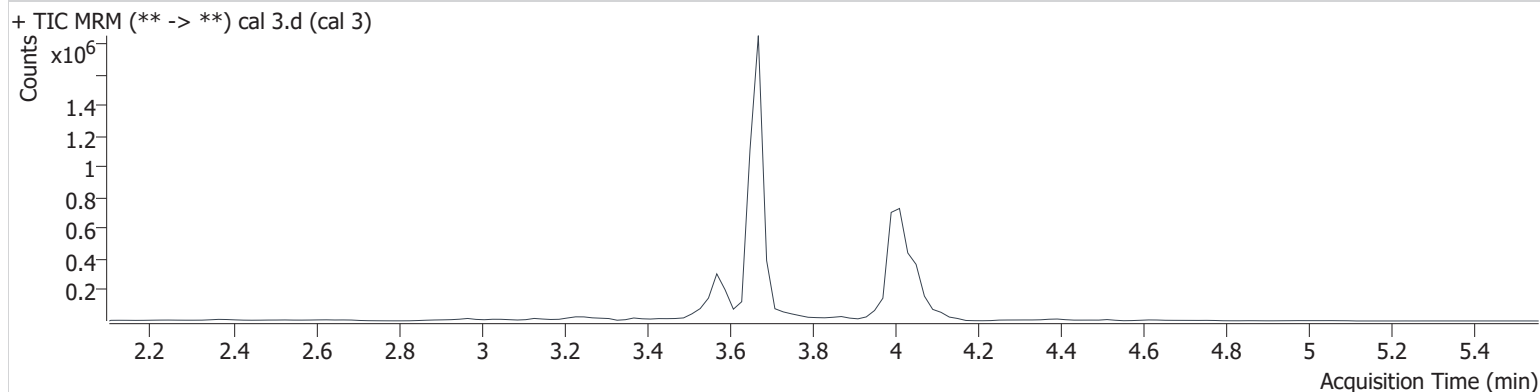
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	10192	437422	2.939 ng/ml <b>Low</b>
THC-COOH	3.592	59427	535027	9.377 ng/ml <b>Low</b>
THC-OH	3.679	20184	3830852	2.834 ng/ml <b>Low</b>

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 1:43:07 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



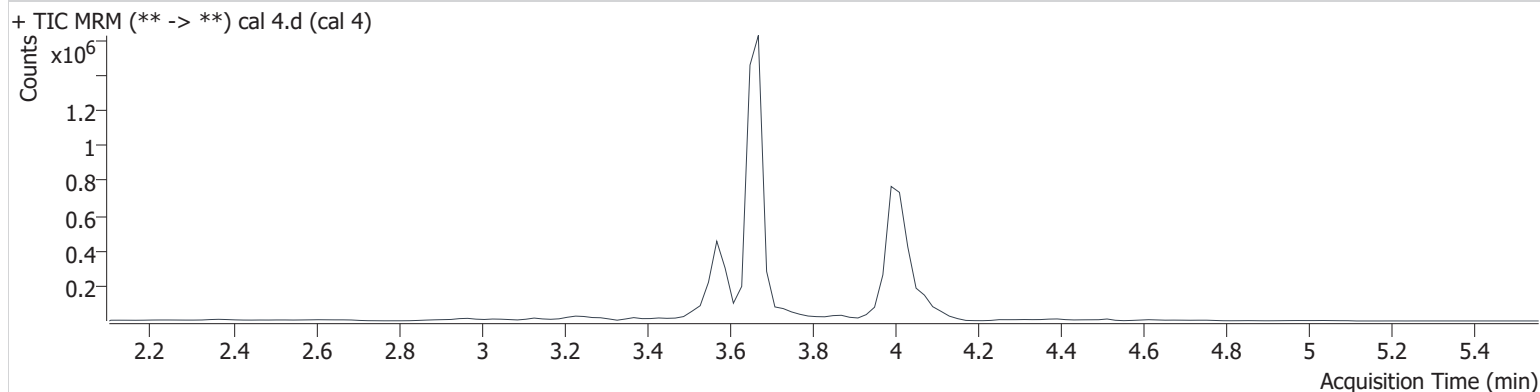
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.064	15989	401627	4.886 ng/ml
THC-COOH	3.592	120107	490036	20.156 ng/ml
THC-OH	3.679	33459	3939379	4.746 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 1:49:45 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



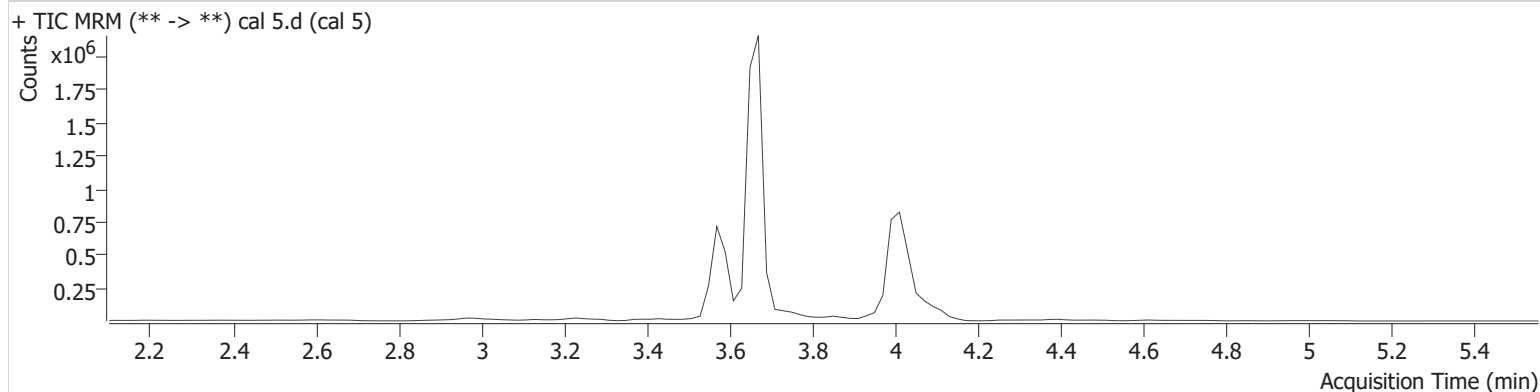
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	15747	204622	9.265 ng/ml
THC-COOH	3.572	291498	477246	49.566 ng/ml
THC-OH	3.679	63756	3750400	9.789 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 1:56:22 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



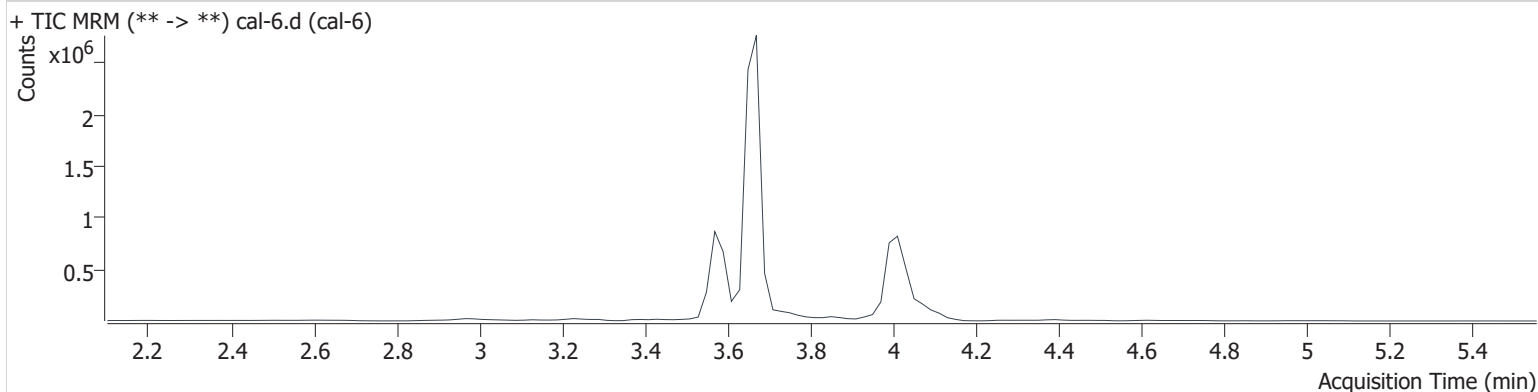
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	49278	230350	25.414 ng/ml
THC-COOH	3.572	543248	578442	75.975 ng/ml
THC-OH	3.679	172083	4125053	24.442 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 2:03:00 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



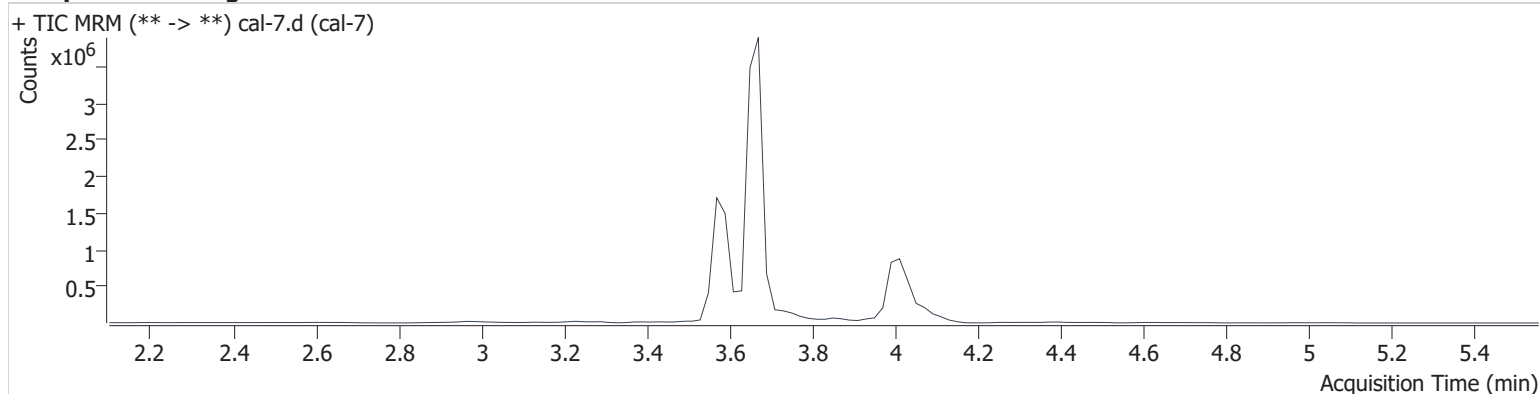
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	94749	225215	49.792 ng/ml
THC-COOH	3.572	710123	565765	101.388 ng/ml
THC-OH	3.679	347620	4080181	50.219 ng/ml

# AM #26 Cannabinoids Screen Results

**Batch results** D:\MassHunter\Data\2022\am 25-26\041222\QuantResults\cann.batch.bin  
**Calibration Last Update** 4/13/2022 10:40:48 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>	4/12/2022 2:09:36 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	4.084	205566	241356	100.607 ng/ml
THC-COOH	3.572	1675996	535860	251.983 ng/ml
THC-OH	3.658	686505	4024705	100.833 ng/ml