

AA

9/29/2021

**REVIEWED**  
*By Sarah Collins at 1:13 pm, Oct 12, 2021*










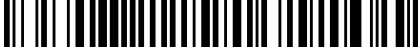
**Worklist: 5252**

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
* M2021-3485	2	UCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3546	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3978	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2709	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2715	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2729	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2768	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2786	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2817	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2918	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2948	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2949	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2950	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2951	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2981	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2982	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2983	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2984	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2993	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2995	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3010	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

\*Logged as a urine collection kit but contained blood samples.

Worklist: 5252

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<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-3026	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3027	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3028	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3033	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3034	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3036	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3037	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3046	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3059	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-3062	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 9/29/2021

Plate lot#: 210611

**Mobile phase A:** 10mM Amm Form  
Instant Buffer I

**Blank Blood Lot:** Lampire 20L20724

**LCMS-QQ ID:** 069901

Analyst: Amber Gerheart

Plate Retest Date: 12/11/2021

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

**Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

**Blank Urine Lot:** N/A

### 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: In blank well, add 250µL urine, 40µL BG Turbo, and 100µL Instant Buffer I. Place on plate shaker for 5 minutes.
- 3. Using a calibrated pipette, pipette **250µL blood and urine** (if applicable) into wells of analytical (standards) plate.  
**Pipette ID: 42**
- 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 5. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 6. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 7. Transfer **200-450µL of blood+base and urine+base (if applicable)** mixture to corresponding wells of SLE+ plate.  
Amount transferred: 300µL
- 8. 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).*
- 9. Wait 5 minutes.
- 10. Add **900uL ethyl acetate.**
- 11. Wait 5 minutes.
- 12. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 13. Add **900uL ethyl acetate.**
- 14. Wait 5 minutes.
- 15. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 16. Remove plate containing eluate. Place on SPE Dry and evaporate to dryness at approx. 35°C. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
- 17. 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:

Maprotiline and norhydrocodone not evaluated

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	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	P2021-2729-1	P2021-2951-1	P2021-3026-1	P2021-3059-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	P2021-2768-1	P2021-2981-2	P2021-3027-1	P2021-3062-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Blood Negative	P2021-2786-1	P2021-2982-1	P2021-3028-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	M2021-3485-2	P2021-2817-1	P2021-2983-1	P2021-3033-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	M2021-3546-2	P2021-2918-1	P2021-2984-1	P2021-3034-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	M2021-3978-2	P2021-2948-1	P2021-2993-1	P2021-3036-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	P2021-2709-1	P2021-2949-1	P2021-2995-1	P2021-3037-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	P2021-2715-1	P2021-2950-1	P2021-3010-1	P2021-3046-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1

All wells to contain 60 µl of residual DMSO



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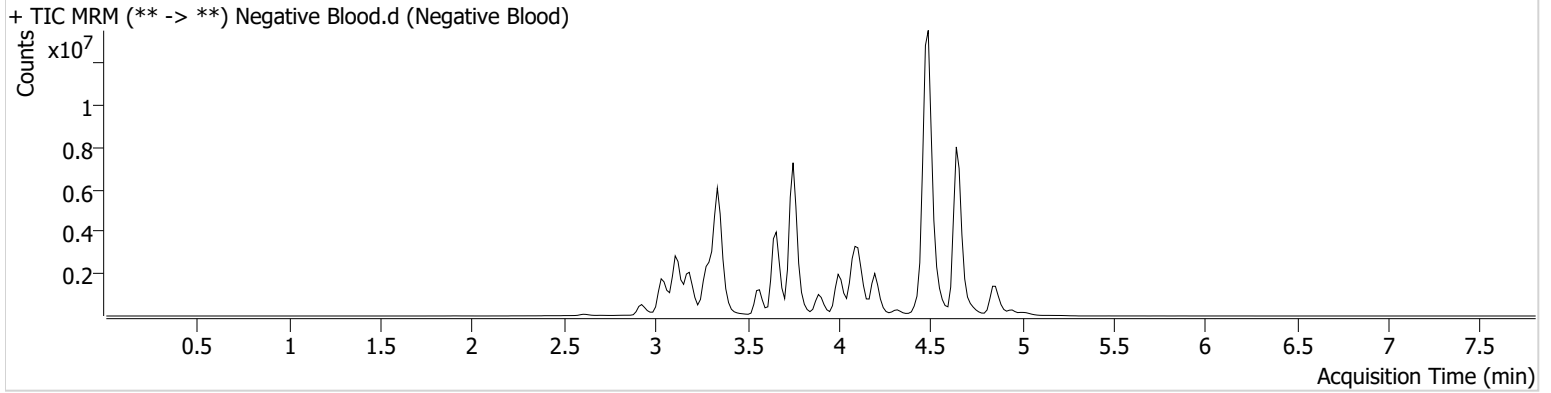


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\092921 AM 25 26 AG\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 10/6/2021 10:56:06 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	Negative Blood
<b>Acq. Method</b>	AM 25 MDS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P2-C1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/29/2021 5:24:38 PM		
<b>Sample Info.</b>			

## Sample Chromatogram



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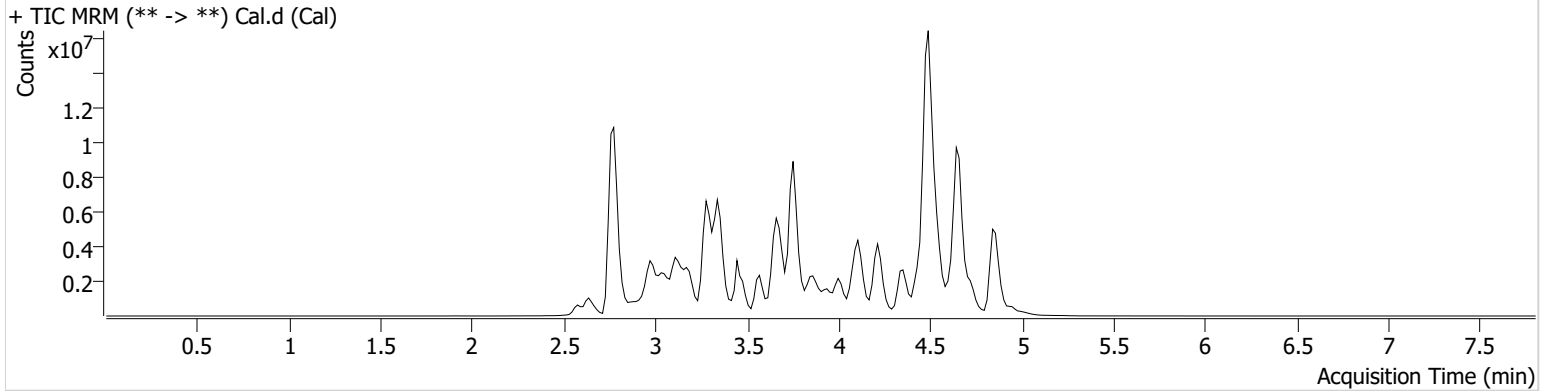


# AM #25 Multi-Drug Screen Results

**Batch results** D:\MassHunter\Data\2021\AM 25-26\092921 AM 25 26 AG\QuantResults\AM 25.batch.bin  
**Calibration Last Update** 10/6/2021 10:56:06 AM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	Cal.d
<b>Type</b>	Cal	<b>Sample</b>	Cal
<b>Acq. Method</b>	AM 25 MDS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P2-A1	<b>Comment</b>	
<b>Injection Volume</b>	5		
<b>Acq. Date-Time</b>	9/29/2021 5:16:04 PM		

**Sample Chromatogram**



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	3.214	35043	39468.30	13747.89	918139	10.0000
7-aminoclonazepam	3.572	628257	115.03	174.11	3495421	10.0000
7-aminoflunitrazepam	3.787	1639004	950.25	246521.23	3495421	10.0000
Acetyl Fentanyl	4.106	19896	83.32	3739.50	13871458	10.0000
Acetyl Norfentanyl	2.963	183374	27190.63	331.09	13871458	10.0000
a-hydroxyalprazolam	4.505	200325	44.14	60620.92	3495421	10.0000
alpha-hydroxymidazolam	4.596	700602	483.42	222342.92	3495421	10.0000
Alpha-PHP	3.960	637088	715.46	119.48	13871458	10.0000
alpha-PVP	3.685	1559036	1087.27	726.30	1727756	10.0000
Alprazolam	4.616	1982195	351.73	409.27	21423096	10.0000
Amitriptyline	4.528	60619	6.12	18.38	259366	10.0000
Amphetamine	2.966	1098003	203.75	222.75	1727756	10.0000
Benzoylcegonine	3.371	211257	157383.59	48.20	397431	10.0000
Brompheniramine	4.091	5863	8.03	34.01	5660419	10.0000
Buprenorphine	5.035	79744	36548.74	7806.16	284815	10.0000
Bupropion	3.930	650726	296.29	374.90	2242520	10.0000
Carbamazepine	4.223	7561402	∞	1954.41	755390	10.0000
Carisoprodol	4.206	837883	487134.17	100.97	4835883	10.0000
Chlordiazepoxide	4.725	1116621	241.14	1052.33	21423096	10.0000
Chlorpheniramine	4.004	435562	245.90	12.92	5660419	10.0000
Citalopram	4.106	288375	346.14	73682.15	5660419	10.0000
Clomipramine	4.722	94566	1277.76	910.06	5660419	10.0000
Clonazepam	4.430	1486048	1154.40	452.39	21423096	10.0000
Clonazolam	4.365	1153253	543768.53	283883.87	21423096	10.0000
Cocaethylene	3.861	1458016	1741437.67	3965.44	11833011	10.0000
Cocaine	3.662	2383157	1479376.20	4788.52	11833011	10.0000
Codeine	3.201	300562	304853.95	864.91	5925961	10.0000
Cyclobenzaprine	4.421	80624	68.62	4.61 <b>Low</b>	259366	10.0000
Desipramine	4.421	163349	240.71	47.82	259366	10.0000
Dextromethorphan	4.159	100245	833.49	315.92	583583	10.0000
Dextrorphan	3.435	592906	151.20	181.15	583583	10.0000
Diazepam	4.849	917036	∞	268.70	21423096	10.0000
Dihydrocodeine	2.576	38591	23.32	14.30	5925961	10.0000
Diphenhydramine	4.098	542095	831.03	127.31	5660419	10.0000

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# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.234	82480	146.84	9.00	1985009	10.0000
Doxylamine	3.696	2681363	145.35	15401.66	583583	10.0000
EDDP	4.111	252556	140.51	644.71	694502	10.0000
Estazolam	4.525	5434088	1491.25	628.81	21423096	10.0000
Etizolam	4.642	296096	195600.98	467793.84	21423096	10.0000
Fentanyl	4.320	7553	5.55	5153.66	691551	10.0000
Flualprazolam	4.490	464967	197946.30	16040.44	21423096	10.0000
Flunitrazepam	4.554	2316735	742.53	401858.41	21423096	10.0000
Fluoxetine	4.355	74193	206.33	4.04 <b>Low</b>	202016	10.0000
Flurazepam	4.379	194906	138277.81	17658.05	21423096	10.0000
Hydrocodone	3.324	794534	534088.15	340.01	5925961	10.0000
Hydromorphone	2.883	1016842	9962.52	13159.06	213222	10.0000
Imipramine	4.465	159333	97448.91	80.50	259366	10.0000
Ketamine	3.869	2347929	9898.78	114.38	9350793	10.0000
Lamotrigine	3.636	194612	869.65	116826.77	5660419	10.0000
Levamisole	3.271	1803552	9832.30	137.88	11833011	10.0000
Levetiracetam	2.644	1087343	854.89	739.43	5660419	10.0000
Lorazepam	4.429	599383	2436.55	∞	21423096	10.0000
MDA	3.072	501794	117.79	34.25	5209618	10.0000
MDEA	3.286	758862	425.06	813.49	5209618	10.0000
MDMA	3.148	1227212	3233.82	287.51	5209618	10.0000
Meperidine	3.713	507489	203.27	72.78	583583	10.0000
Meprobamate	3.655	336829	526601.89	47.71	4835883	10.0000
Methadone	4.431	295808	787.49	81.92	694502	10.0000
Methamphetamine	3.073	1433393	65.77	39.02	5209618	10.0000
Methocarbamol	3.560	549102	442.37	3655.84	694502	10.0000
Methylphenidate	3.576	1576531	3628.06	566.35	4634816	10.0000
Metoprolol	3.465	199028	2299.08	173262.50	583583	10.0000
Midazolam	4.781	149951	119462.87	52990.79	21423096	10.0000
Mirtazapine	4.360	329734	60444.68	567.19	583583	10.0000
Mitragynine	4.379	19281	12210.41	13427.19	583583	10.0000
Morphine	2.670	210720	369.37	4706.90	213222	10.0000
Norbuprenorphine	3.902	4218	1935.70	2672.69	284815	10.0000
Nordiazepam	4.697	1087292	939.14	452.80	21423096	10.0000
Norfentanyl	3.361	2753430	164844.61	117.63	13871458	10.0000
Norhydrocodone	2.883 <b>Low</b>	7084	115.43	3.93 <b>Low</b>	213222	10.0000
Norketamine	3.946	443309	135.00	2715.00	9350793	10.0000
Normeperidine	3.638	315435	351.87	141.77	5660419	10.0000
Noroxycodone	2.957	888635	∞	86.74	9350793	10.0000
Nortriptyline	4.468	45975	187.64	11.18	259366	10.0000
O-desmethyl-tramadol	2.991	5514987	13398.19	480.40	5660419	10.0000
Olanzapine	4.015	112279	78812.56	20557.70	755390	10.0000
Oxazepam	4.511	2242113	186.80	266.85	12178389	10.0000
Oxycodone	3.139	2074371	377.25	501.35	9350793	10.0000
Oxymorphone	2.576	772639	315.38	11138.52	213222	10.0000
Paroxetine	4.382	11332	3351.56	2504.84	202016	10.0000
Phenazepam	4.641	1284253	1588.12	343658.09	21423096	10.0000
Phencyclidine	3.975	452149	116.70	82.33	583583	10.0000
Phentermine	3.211	383989	31.97	∞	4634816	10.0000
Phenytoin	4.114	1400598	409.84	267.60	755390	10.0000
Promethazine	4.465	253423	128910.43	72.66	5660419	10.0000
Pseudoephedrine	2.782	33171699	7793.76	512.48	5209618	10.0000
Quetiapine	4.701	429698	416.82	237073.33	30775773	10.0000
Sertraline	4.617	38264	17813.54	71.59	202016	10.0000
Sufentanil	4.732	7100	4019.26	4.81 <b>Low</b>	13871458	10.0000
Tapentadol	3.470	1608644	401.59	258.61	9350793	10.0000
Temazepam	4.664	3728076	1407.98	232.23	21423096	10.0000
Tramadol	3.466	4084694	1851.59	78.43	5660419	10.0000
Trazodone	4.885	469498	324222.57	199189.43	1985009	10.0000
Venlafaxine	3.833	1676602	37966.03	91.64	202016	10.0000

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# AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Zaleplon	4.341	3297274	996.53	1265.62	30775773	10.0000
Zolpidem	4.493	5779266	2987281.77	3388.82	30775773	10.0000
Zopiclone	4.440	514248	271155.67	84.73	2866473	10.0000

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

Extraction Date: 9/29/2021Analyst: Amber Gerheart

Plate lot#: 210609

Plate Retest Date: 12/09/2021

**Mobile phase A:** 0.1% Formic Acid in LCMS Water      **Mobile phase B:** 0.1% Formic acid in Acetonitrile**Blank Blood Lot:** Lampire 20L20724**Column:** Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)**LCMS-QQ ID:** 069901**Blank Urine Lot:** N/A

### 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 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes.  
Using a calibrated pipette, add **1000µl blood and urine (if applicable) (calibrated pipette)** into the appropriate wells of analytical (standards) plate. **Pipette ID: 16**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **500µL 0.1% formic acid in water blood sample, 500 µL saturated phosphate buffer in urine** in wells of 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: 800µL
- 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 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: Run stopped overnight due to incorrect volume of mobile phase, updated mobile phase bottles and run continued with no further issues on 9/30/2021.

THC not evaluated

Plate Map for the Analytical Plate

AK

	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	P2021-2786-1	P2021-2982-1	P2021-3028-1	IS + QC_1
B	IS + Cal. 2	M2021-3485-2	P2021-2817-1	P2021-2983-1	P2021-3033-1	IS + Cal. 7
C	IS + Cal. 3	M2021-3546-2	P2021-2918-1	P2021-2984-1	P2021-3034-1	IS + Cal. 6
D	IS + Cal. 4	M2021-3978-2	P2021-2948-1	P2021-2993-1	P2021-3036-1	IS + Cal. 5
E	IS + Cal. 5	P2021-2709-1	P2021-2949-1	P2021-2995-1	P2021-3037-1	IS + Cal. 4
F	IS + Cal. 6	P2021-2715-1	P2021-2950-1	P2021-3010-1	P2021-3046-1	IS + Cal. 3
G	IS + Cal. 7	P2021-2729-1	P2021-2951-1	P2021-3026-1	P2021-3059-1	IS + Cal. 2
H	IS + QC_1	P2021-2768-1	P2021-2981-2	P2021-3027-1	P2021-3062-1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

Plate Map for the SLE and Sample Plate

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	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	P2021-2786-1	P2021-2982-1	P2021-3028-1	P2021-2709-1
B	IS + Cal. 2	M2021-3485-2	P2021-2817-1	P2021-2983-1	P2021-3033-1	IS + Cal. 7
C	IS + Cal. 3	M2021-3546-2	P2021-2918-1	P2021-2984-1	P2021-3034-1	IS + Cal. 6
D	IS + Cal. 4	M2021-3978-2	P2021-2948-1	P2021-2993-1	P2021-3036-1	IS + Cal. 5
E	IS + Cal. 5	P2021-2709-1 (sample moved due to clot)	P2021-2949-1	P2021-2995-1	P2021-3037-1	IS + Cal. 4
F	IS + Cal. 6	P2021-2715-1	P2021-2950-1	P2021-3010-1	P2021-3046-1	IS + Cal. 3
G	IS + Cal. 7	P2021-2729-1	P2021-2951-1	P2021-3026-1	P2021-3059-1	IS + Cal. 2
H	IS + QC_1	P2021-2768-1	P2021-2981-2	P2021-3027-1	P2021-3062-1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

AA

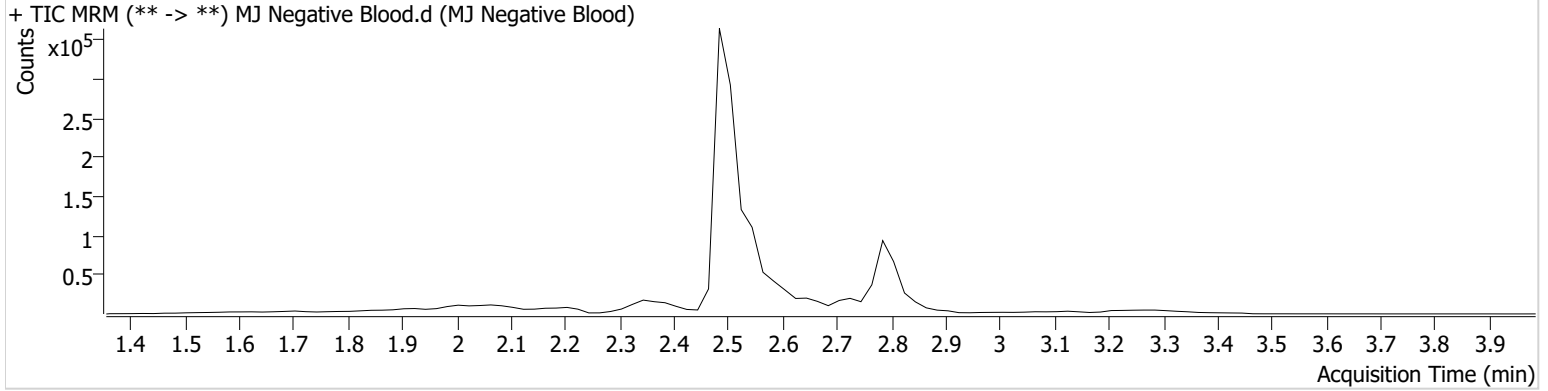


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Negative Blood.d
<b>Type</b>	Sample	<b>Sample</b>	MJ Negative Blood
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-A2	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 11:26:35 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC-OH	2.514	3974	894894	1.6797 ng/ml	<b>Low</b>



AA

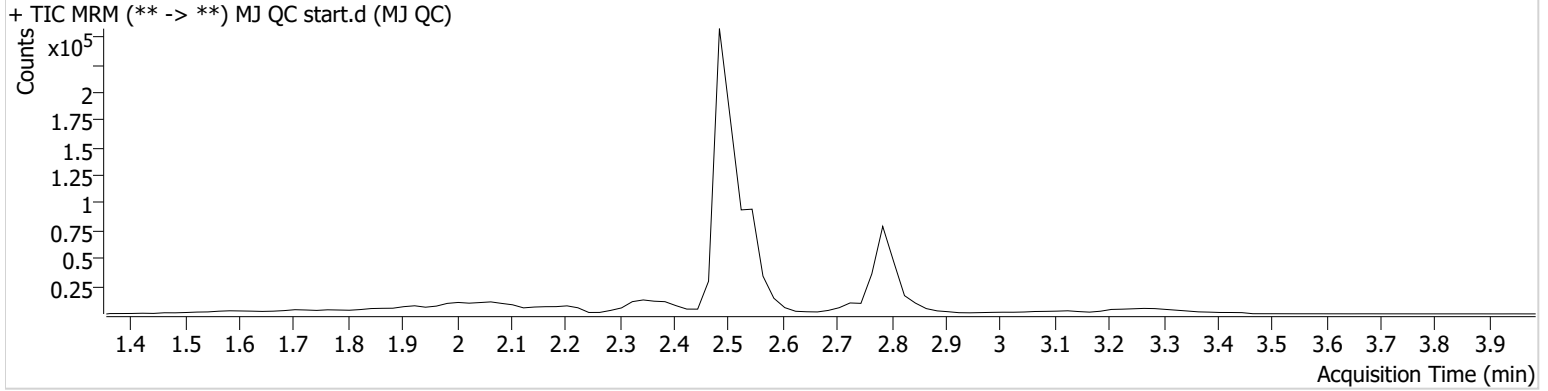


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ QC start.d
<b>Type</b>	Sample	<b>Sample</b>	MJ QC
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-H1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 11:13:27 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



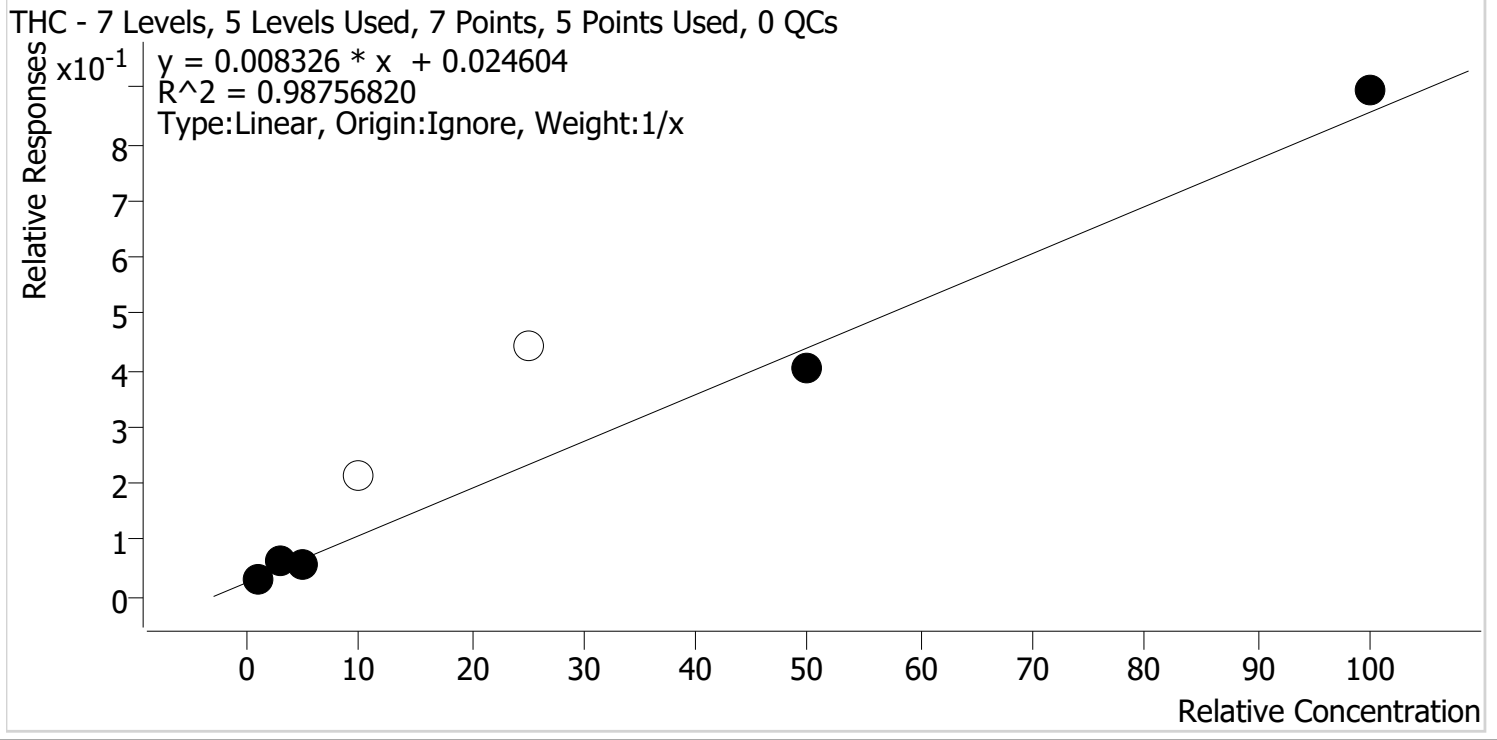
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	1049	10096	9.5258 ng/ml
THC-COOH	2.547	31121	111785	16.7831 ng/ml
THC-OH	2.494	4877	544681	4.4412 ng/ml

AA



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 10/1/2021 1:49 PM  
**Analyst Name** ISP\lagerheart  
**Analyte** THC **Internal Standard** THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	0.8	82.5
MJ Cal 2	2	✓	3.0	4.5	150.2
MJ Cal 3	3	✓	5.0	3.6	71.8
MJ Cal 4	4	x	10.0	23.0	230.3
MJ Cal 5	5	x	25.0	50.7	202.9
MJ Cal 6	6	✓	50.0	45.5	91.0
MJ Cal 7	7	✓	100.0	104.6	104.6

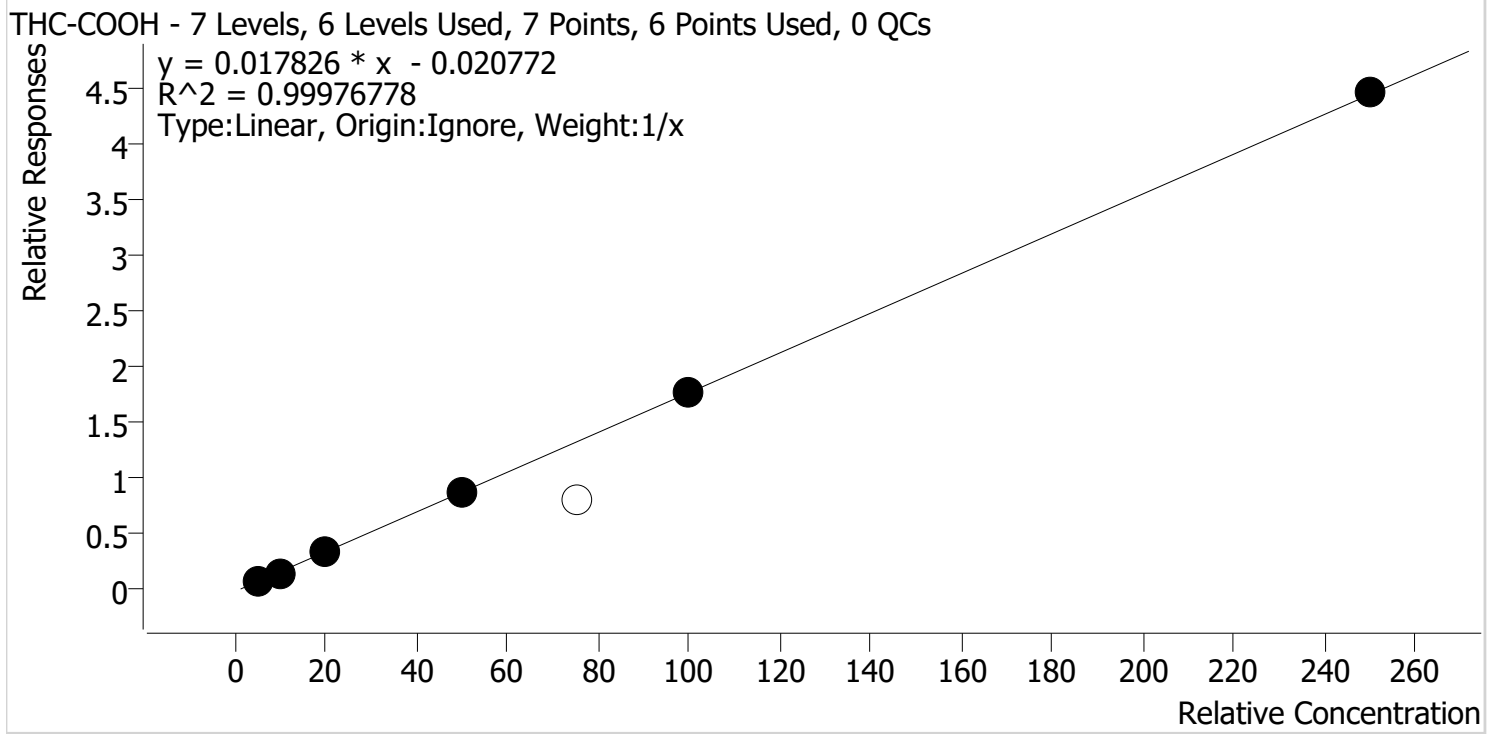
Compound not evaluated

AA



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 10/1/2021 1:49 PM  
**Analyst Name** ISP\lagerheart  
**Analyte** THC-COOH **Internal Standard** THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.4	107.1
MJ Cal 2	2	✓	10.0	9.3	93.1
MJ Cal 3	3	✓	20.0	20.1	100.4
MJ Cal 4	4	✓	50.0	49.8	99.6
MJ Cal 5	5	✗	75.0	45.8	61.1
MJ Cal 6	6	✓	100.0	99.6	99.6
MJ Cal 7	7	✓	250.0	250.9	100.4

Cal 5 dropped due to peak cutting off

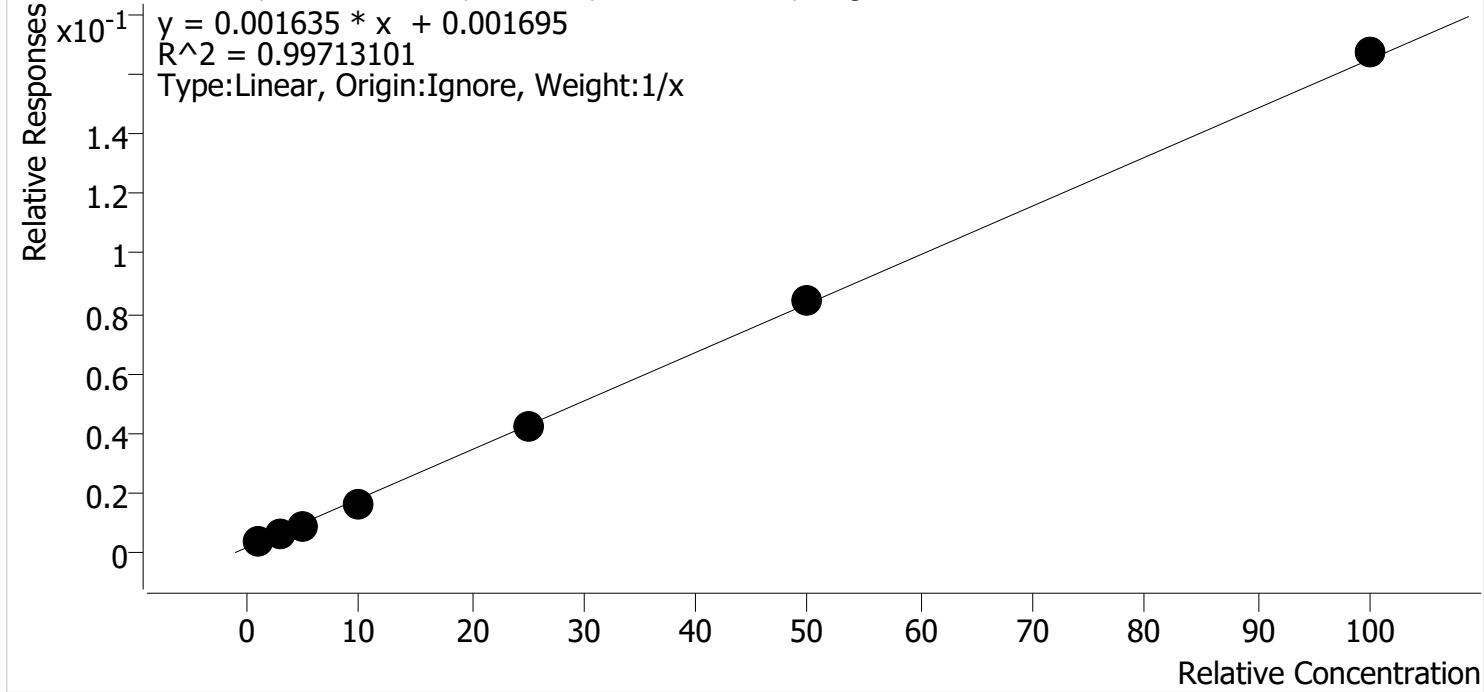
AA



# AM #26 Cannabinoids Screen Calibration Curve Report

**Batch results** C:\Users\lagerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Last Cal. Update** 10/1/2021 1:49 PM  
**Analyst Name** ISP\lagerheart  
**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
MJ Cal 1	1	✓	1.0	1.4	139.8
MJ Cal 2	2	✓	3.0	2.4	81.3
MJ Cal 3	3	✓	5.0	4.3	87.0
MJ Cal 4	4	✓	10.0	9.1	90.7
MJ Cal 5	5	✓	25.0	24.5	98.2
MJ Cal 6	6	✓	50.0	50.8	101.6
MJ Cal 7	7	✓	100.0	101.4	101.4

AA

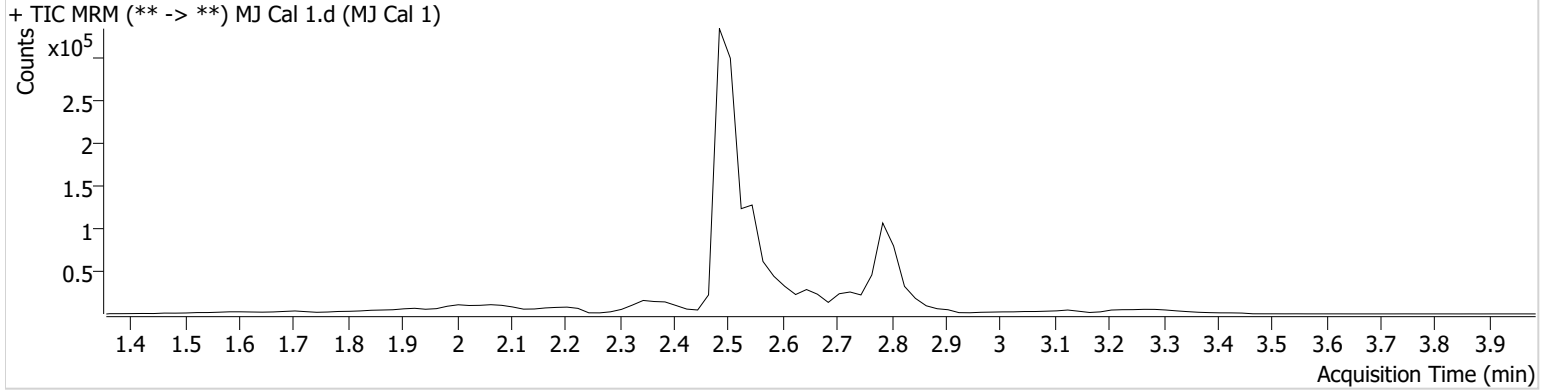


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 1.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 1
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-A1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 10:27:25 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	471	14979	0.8249 ng/ml	<b>Low</b>
THC-COOH	2.547	14074	188559	5.3526 ng/ml	
THC-OH	2.514	3234	812385	1.3983 ng/ml	<b>Low</b>

AA

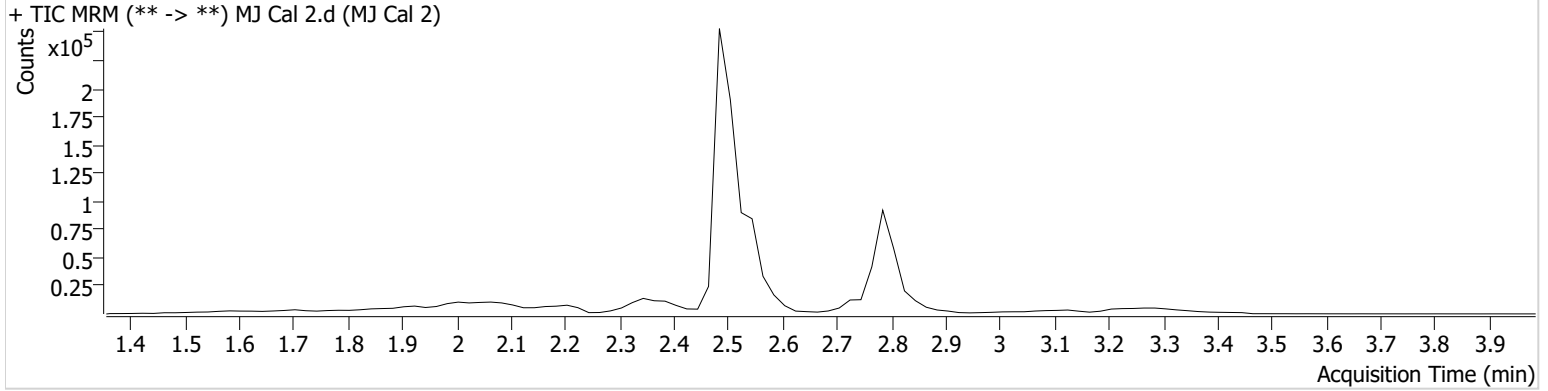


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 2.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 2
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-B1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 10:34:08 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	820	13203	4.5047 ng/ml
THC-COOH	2.547	17266	118948	9.3085 ng/ml
THC-OH	2.494	3242	570730	2.4383 ng/ml <b>Low</b>

AA

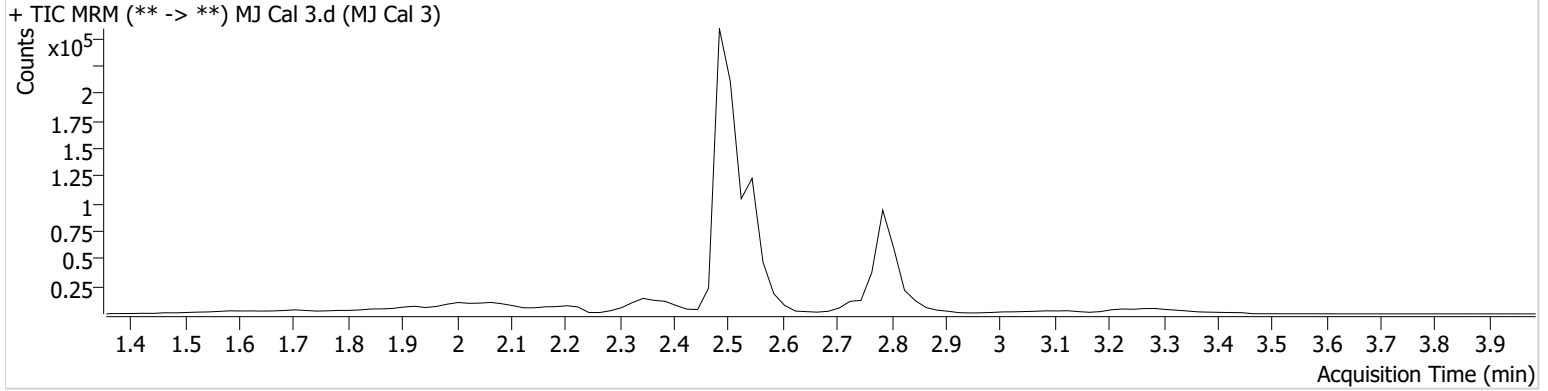


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 3.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 3
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-C1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 10:40:43 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	702	12883	3.5891 ng/ml
THC-COOH	2.547	43632	129438	20.0754 ng/ml
THC-OH	2.494	5234	594553	4.3488 ng/ml

AA



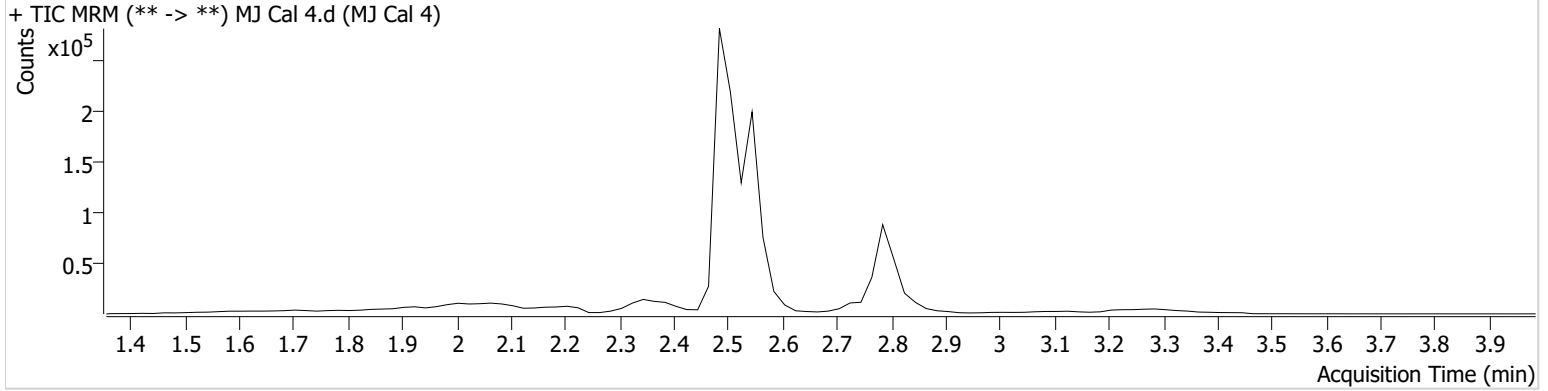
# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 4.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 4
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-D1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 10:47:16 PM		

**Sample Info.**

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	2593	11982	23.0350 ng/ml
THC-COOH	2.547	110556	127585	49.7761 ng/ml
THC-OH	2.494	9874	597505	9.0722 ng/ml



AA

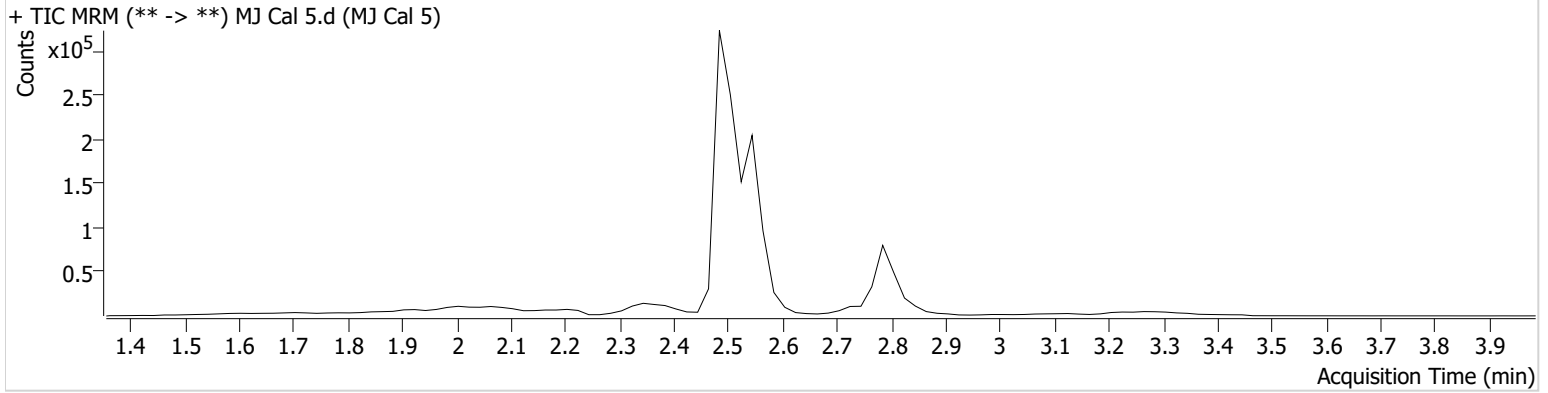


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 5.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 5
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-E1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 10:53:49 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	5311	11884	50.7199 ng/ml
THC-COOH	2.567	95889	120453	45.8235 ng/ml
THC-OH	2.494	24495	585749	24.5448 ng/ml

AA

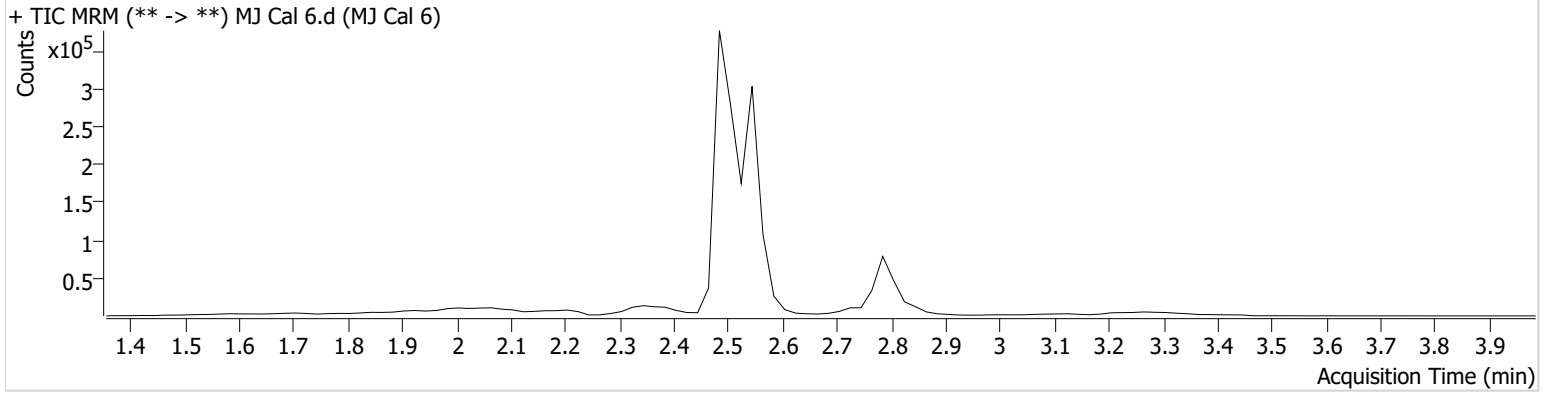


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 6.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 6
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-F1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 11:00:22 PM		

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	4485	11118	45.4931 ng/ml
THC-COOH	2.547	196721	112153	99.5650 ng/ml
THC-OH	2.494	45827	540619	50.8185 ng/ml

AA

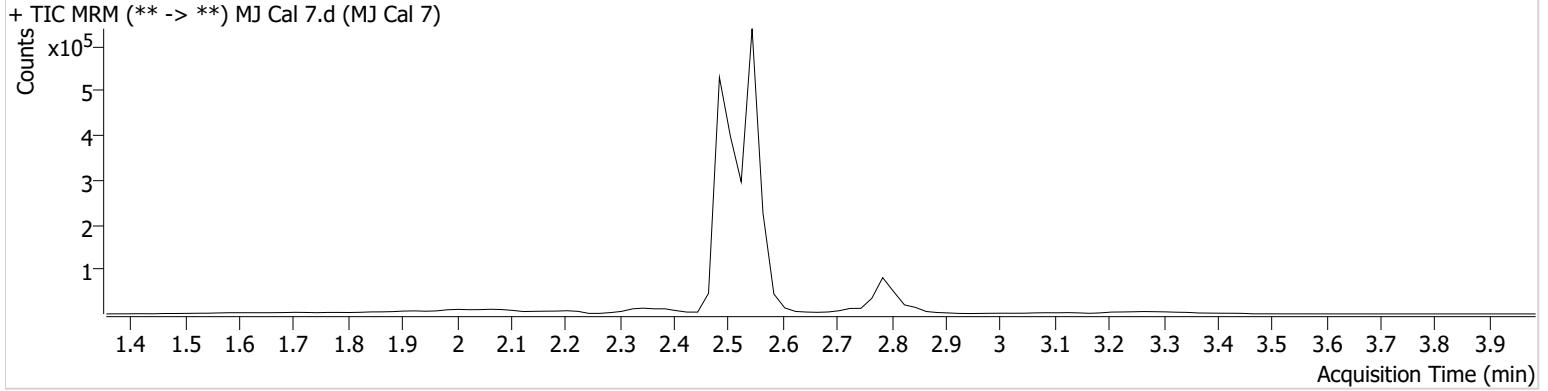


# AM #26 Cannabinoids Screen Results

**Batch results** C:\Users\agerheart\Desktop\092921 AM 25 26 AG\QuantResults\AM 26.batch.bin  
**Calibration Last Update** 10/1/2021 1:49:25 PM

<b>Instrument</b>	Falco (069901)	<b>Data File</b>	MJ Cal 7.d
<b>Type</b>	Cal	<b>Sample</b>	MJ Cal 7
<b>Acq. Method</b>	AM 26 THCS.m	<b>Operator</b>	Amber Gerheart
<b>Sample Position</b>	P1-G1	<b>Comment</b>	
<b>Injection Volume</b>	10		
<b>Acq. Date-Time</b>	9/29/2021 11:06:54 PM		
<b>Sample Info.</b>			

**Sample Chromatogram**



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	9888	11043	104.5882 ng/ml
THC-COOH	2.547	477697	107297	250.9224 ng/ml
THC-OH	2.494	91157	544478	101.3791 ng/ml