


AR

9/16/2021

Worklist: 5239

REVIEWED

By Britany Wylie at 7:58 am, Sep 27, 2021

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-3080	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3282	5	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3282	6	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3476	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3481	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3570	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3636	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3636	5	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3636	6	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3824	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3907	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3914	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3939	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-3939	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
M2021-4060	4	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-2184	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-2677	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-2868	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-3047	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

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

Extraction Date: 9/17/2021

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: POC031319

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:

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	M2021-3282-6	M2021-3907-4	P2021-3047-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	M2021-3476-1	M2021-3914-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Blood Negative	M2021-3481-2	M2021-3939-3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	IS + Sample	M2021-3570-3	M2021-3939-4	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	Negative Urine	M2021-3636-4	M2021-4060-4	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	Urine External	M2021-3636-5	P2021-2184-2	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	M2021-3080-4	M2021-3636-6	P2021-2677-3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	M2021-3282-5	M2021-3824-2	P2021-2868-1	IS + Sample	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

AK



Idaho State Police Forensic Services

AM #25 Urine Multi-Drug Screen by LCMS-QQQ And AM #28 Urine Multi-Drug Confirmatory Analysis by LCMS-QQQ---Panel 1

Methanol External Control Solution (Lot: 120320)

100 µL of 1mg/mL stock was added to each drug to 9700 µL of LC MeOH.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	197468	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/03/2020		
Prepared By:	Celena Shrum		
Expires:	07/31/2021		

Urine External Control Solution (Lot: WS061521)

100 µL of methanol external control solution was added to 9900 µL of urine.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		120320
Prepared:	09/17/2021	
Prepared by:	Amber Gerheart	
Expires:	07/31/2021	

AR

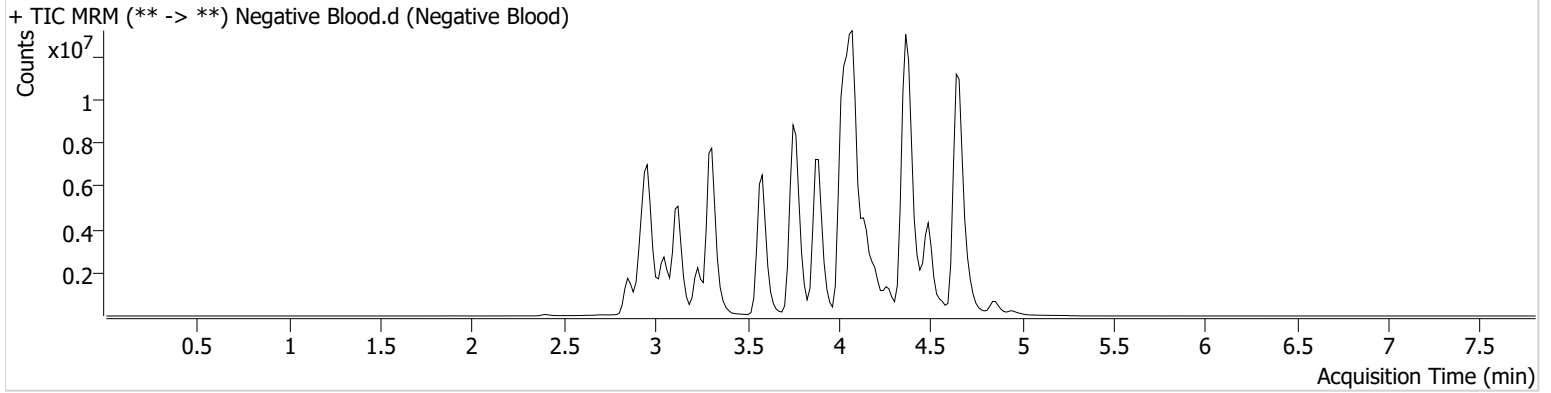


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2021 11:03:55 AM

Instrument	Falco (069901)	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-C1	Comment	
Injection Volume	5		
Acq. Date-Time	9/17/2021 6:32:54 PM		
Sample Info.			

Sample Chromatogram



AG

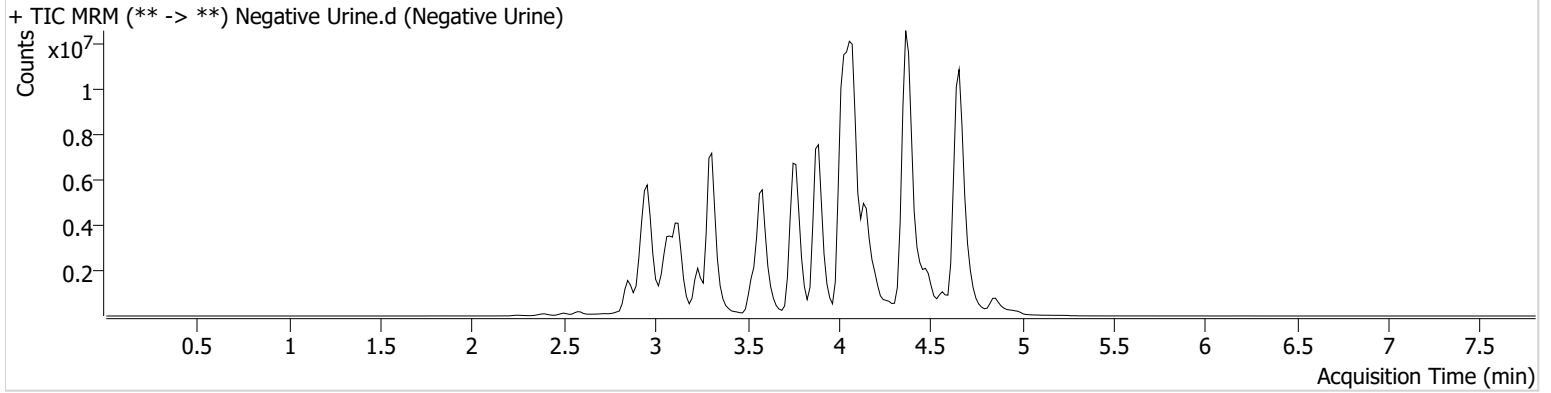


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2021 11:03:55 AM

Instrument	Falco (069901)	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-E1	Comment	
Injection Volume	5		
Acq. Date-Time	9/17/2021 6:41:17 PM		
Sample Info.			

Sample Chromatogram



AR

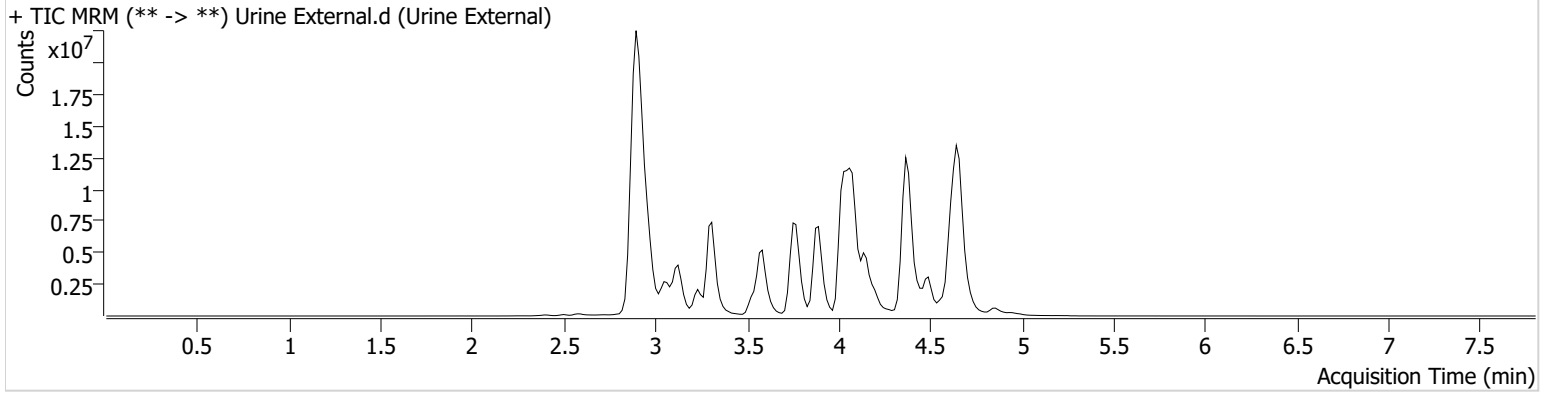


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2021 11:03:55 AM

Instrument	Falco (069901)	Data File	Urine External.d
Type	Sample	Sample	Urine External
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-F1	Comment	
Injection Volume	5		
Acq. Date-Time	9/17/2021 6:49:41 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.616	11724653	2531.79	1281.45	16649424	75.1020
Amphetamine	2.890	19426978	1029.78	1189.29	4225218	69.1943
O-desmethyl-tramadol	2.915	34840391	840.94	338.27	44100557	53.2752

AR

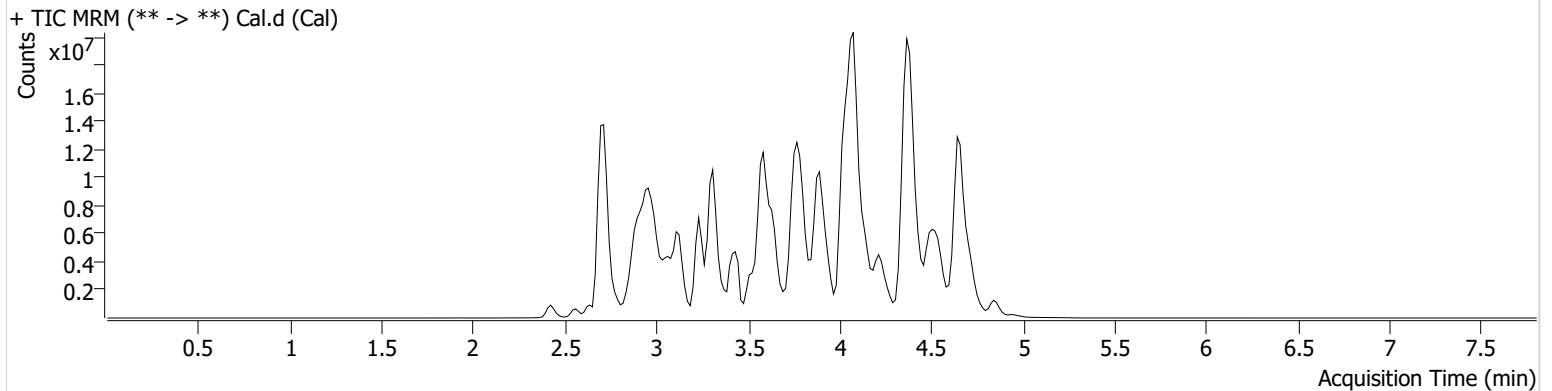


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 9/21/2021 11:03:55 AM

Instrument	Falco (069901)	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P2-B1	Comment	
Injection Volume	5		
Acq. Date-Time	9/17/2021 6:24:19 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.953	46491	422.96	10028.01	945113	10.0000
7-aminoclonazepam	3.572	517404	379.49	267.02	2884614	10.0000
7-aminoflunitrazepam	3.786	1221222	3990.31	∞	2884614	10.0000
Acetyl Fentanyl	3.921	231131	198.73	71031.71	27167458	10.0000
Acetyl Norfentanyl	2.886	254861	459.07	2962.40	27167458	10.0000
a-hydroxyalprazolam	4.505	184422	201.33	1469.89	2884614	10.0000
alpha-hydroxymidazolam	4.596	798789	225.33	11496.42	2884614	10.0000
Alpha-PHP	3.837	3221923	1142.36	4890.99	27167458	10.0000
alpha-PVP	3.561	4103795	10127.56	1443.22	5744281	10.0000
Alprazolam	4.616	1680642	2601.94	288.68	17923636	10.0000
Amitriptyline	4.451	751045	158.09	145.14	2969837	10.0000
Amphetamine	2.890	3816993	1519.47	4276.92	5744281	10.0000
Benzoylcegonine	3.371	194419	131047.16	921.37	384608	10.0000
Brompheniramine	4.045	49939	44309.88	215.45	42763747	10.0000
Buprenorphine	4.730	844332	7119.55	33260.15	2893337	10.0000
Bupropion	3.807	4282223	3134.17	431.22	14532242	10.0000
Carbamazepine	4.223	6499453	∞	989.90	514130	10.0000
Carisoprodol	4.206	740858	4204.35	115.27	4335306	10.0000
Chlordiazepoxide	4.725	1080384	∞	825.11	17923636	10.0000
Chlorpheniramine	3.942	4536504	4172.21	16.21	42763747	10.0000
Citalopram	4.060	2285734	666.41	404.06	42763747	10.0000
Clomipramine	4.645	680555	136020.48	2055.60	42763747	10.0000
Clonazepam	4.430	1052002	921.11	173.29	17923636	10.0000
Clonazolam	4.365	821975	349875.06	195073.30	17923636	10.0000
Cocaethylene	3.799	3624625	12411.32	1495.18	21049914	10.0000
Cocaine	3.585	3936401	2368245.38	589.61	21049914	10.0000
Codeine	2.882	323233	939579.45	353.40	8914729	10.0000
Cyclobenzaprine	4.359	1009663	571.63	123.53	2969837	10.0000
Desipramine	4.375	1416867	1609.34	1576.77	2969837	10.0000
Dextromethorphan	4.097	1344323	184.67	133629.92	7101356	10.0000
Dextrorphan	3.374	1864342	14247.01	1286.17	7101356	10.0000
Diazepam	4.849	919970	714.10	496.67	17923636	10.0000
Dihydrocodeine	2.789	939200	1641.52	628.95	8914729	10.0000
Diphenhydramine	4.036	5371162	2711.42	440.62	42763747	10.0000

Cal

AR



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.157	1133786	181.83	200.51	17392596	10.0000
Doxylamine	3.649	8664756	640.76	219.96	7101356	10.0000
EDDP	4.080	1521713	344.29	210.02	3871467	10.0000
Estazolam	4.525	4528887	608.84	979.70	17923636	10.0000
Etizolam	4.642	216672	151675.62	522696.76	17923636	10.0000
Fentanyl	4.151	147409	352.87	628.47	9747363	10.0000
Flualprazolam	4.490	442779	197671.73	2148.41	17923636	10.0000
Flunitrazepam	4.554	1957707	648.61	33440.84	17923636	10.0000
Fluoxetine	4.324	640890	3554.22	41.14	1154127	10.0000
Flurazepam	4.226	1891675	674.66	125383.17	17923636	10.0000
Hydrocodone	3.065	1243344	423.33	312.54	8914729	10.0000
Hydromorphone	2.564	1223206	2145.62	113.11	199509	10.0000
Imipramine	4.404	2109445	557.42	592.17	2969837	10.0000
Ketamine	3.607	3222253	382.55	344.63	10680341	10.0000
Lamotrigine	3.605	211592	1028.38	31404.03	42763747	10.0000
Levamisole	3.010	2616727	1952.48	815.63	21049914	10.0000
Levetiracetam	2.644	1098491	1174.60	924.25	42763747	10.0000
Lorazepam	4.429	469240	267.13	440.77	17923636	10.0000
Maprotiline	4.451	387770	36.28	64.95	2969837	10.0000
MDA	3.010	1627892	253.50	292.57	19110680	10.0000
MDEA	3.240	3017954	339.65	535.44	19110680	10.0000
MDMA	3.086	3963560	11198.85	544.60	19110680	10.0000
Meperidine	3.621	2247087	1388.62	237.47	7101356	10.0000
Meprobamate	3.654	341451	52106.52	88.73	4335306	10.0000
Methadone	4.400	3446980	2736.30	192.89	3871467	10.0000
Methamphetamine	2.996	3796467	12.94	598.09	19110680	10.0000
Methocarbamol	3.560	553482	234.98	989.12	3871467	10.0000
Methylphenidate	3.515	7652848	69.35	76.43	16819652	10.0000
Metoprolol	3.435	483489	2928.27	321.40	7101356	10.0000
Midazolam	4.766	456674	556.77	41592.13	17923636	10.0000
Mirtazapine	4.067	2369751	122003.27	1446.25	7101356	10.0000
Mitragynine	4.241	257309	126723.46	236143.99	7101356	10.0000
Morphine	2.427	222419	438.05	1471.38	199509	10.0000
Norbuprenorphine	3.841	49534	32626.78	95166.51	2893337	10.0000
Nordiazepam	4.697	824985	572011.75	450.88	17923636	10.0000
Norfentanyl	3.315	5968394	10002.34	1590.10	27167458	10.0000
Norhydrocodone	2.944	8963	27.01	2089.20	199509	10.0000
Norketamine	3.716	611597	170.70	21363.48	10680341	10.0000
Normeperidine	3.592	1835940	1808.57	104.26	42763747	10.0000
Noroxycodone	2.881	1010606	∞	183.17	10680341	10.0000
Nortriptyline	4.422	544368	406.64	202.76	2969837	10.0000
O-desmethyl-tramadol	2.915	6341461	9353.74	321.75	42763747	10.0000
Olanzapine	3.861	1762529	1091385.05	5209.77	514130	10.0000
Oxazepam	4.495	2086828	565.59	240.33	11492005	10.0000
Oxycodone	2.940	2447294	728.67	621.85	10680341	10.0000
Oxymorphone	2.423	794892	500.44	∞	199509	10.0000
Paroxetine	4.351	100348	98.39	118520.83	1154127	10.0000
Phenazepam	4.626	995198	5132.91	210966.31	17923636	10.0000
Phencyclidine	3.930	3393597	604.77	296.90	7101356	10.0000
Phentermine	3.150	1360423	967.25	9.28	16819652	10.0000
Phenytoin	4.114	971657	864.53	1906.34	514130	10.0000
Promethazine	4.357	3476075	768.13	167.09	42763747	10.0000
Pseudoephedrine	2.721	44404560	2306.99	1604.38	19110680	10.0000
Quetiapine	4.533	2793869	871607.60	2272731.40	38102566	10.0000
Sertraline	4.570	214013	25911.83	172.22	1154127	10.0000
Sufentanil	4.517	104683	29663.30	55.03	27167458	10.0000
Tapentadol	3.424	3549822	825.81	280.85	10680341	10.0000
Temazepam	4.664	2936780	665.35	92.65	17923636	10.0000
Tramadol	3.420	7484492	1858.06	185.94	42763747	10.0000
Trazodone	4.702	3791039	1737145.77	2182695.72	17392596	10.0000

Cal

AR



AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.803	5078641	1205.28	720.41	1154127	10.0000
Zaleplon	4.341	2365706	67876.66	337.35	38102566	10.0000
Zolpidem	4.386	7813430	2429550.60	156600.17	38102566	10.0000
Zopiclone	4.272	440210	163998.71	351.29	2360531	10.0000

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

Extraction Date: 9/17/2021

Analyst: 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-QQQ ID: 069901

Blank Urine Lot: POC031319

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: 42**
- 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, R² 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: Limited Curve Range: THC-OH 3-100 ng/mL

	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	M2021-3481-2	M2021-3939-3	IS + Sample	IS + QC_1
B	IS + Cal. 2	IS + Sample	M2021-3570-3	M2021-3939-4	IS + Sample	IS + Cal. 7
C	IS + Cal. 3	Negative Urine	M2021-3636-4	M2021-4060-4	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	Urine External	M2021-3636-5	P2021-2184-2	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	M2021-3080-4	M2021-3636-6	P2021-2677-3	IS + Sample	IS + Cal. 4
F	IS + Cal. 6	M2021-3282-5	M2021-3824-2	P2021-2868-1	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	M2021-3282-6	M2021-3907-4	P2021-3047-1	IS + Sample	IS + Cal. 2
H	IS + QC_1	M2021-3476-1	M2021-3914-1	IS + Sample	IS + Sample	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

AR



**Idaho State Police
Forensic Services**

**AM #26 Screening of THC and Metabolites and AM #27
Confirmation of THC and Metabolites Blood External
Control Prep Sheet**

Methanol External Control Solution (Lot: WS03052021)

10 µL of 1mg/mL THC, 100 µL of 100 µg/mL THC-OH, C-THC in 9790 µL MeOH

Approximate concentration 1ug/mL.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	200921	
THC	Cerilliant	FE01041701	03/31/2022
C-THC	Cerilliant	FE08011801	08/31/2023
THC-OH	Cerilliant	FE07221601	07/31/2021
Prepared:	03/05/2021		
Expires:	07/31/2021		
Prepared By:	Tamara Salazar/Amber Gerheart		

Urine External Control Solution (Lot: 072821)

200 ul of methanol external control solution was added to 9900 ul of blood.

Approximately 20ng/mL each

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution	-	WS03052021
Prepared:	07/28/2021	
repared by:	Celena Shrum	

AR

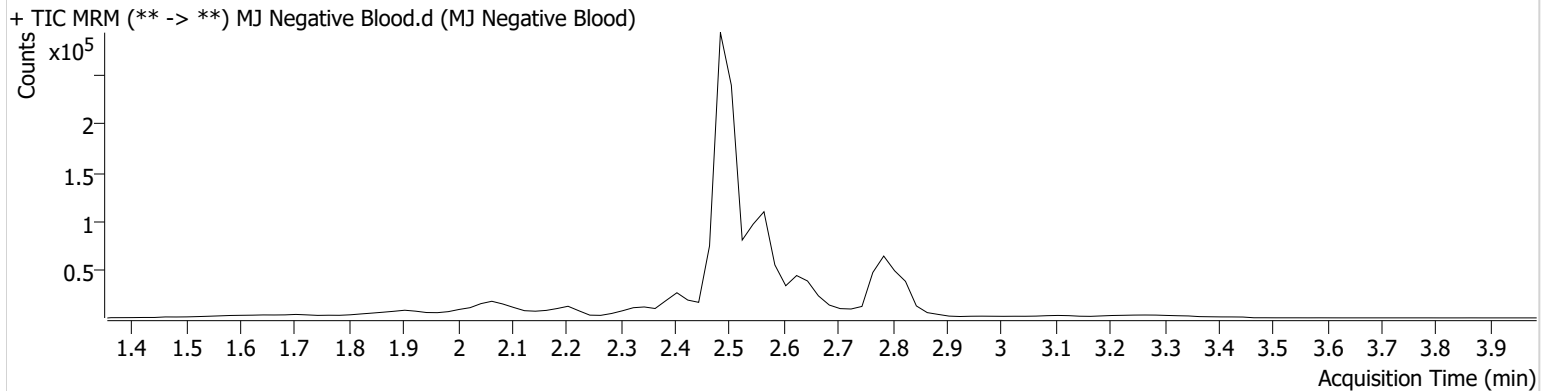


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-A2	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 11:10:51 PM		
Sample Info.			

Sample Chromatogram



AR

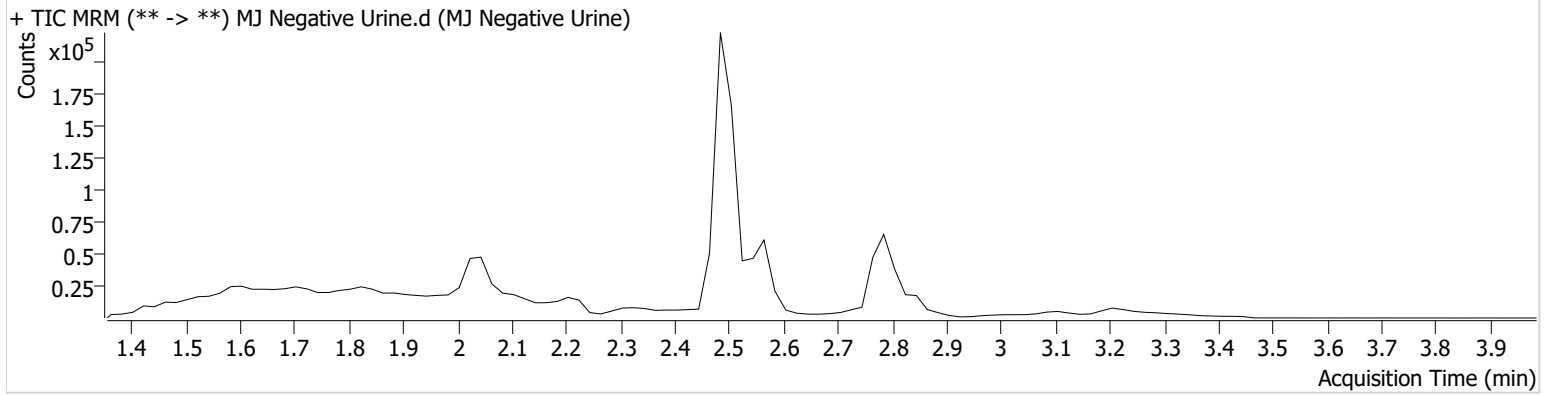


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Negative Urine.d
Type	Sample	Sample	MJ Negative Urine
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-C2	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 11:17:25 PM		
Sample Info.			

Sample Chromatogram



AR

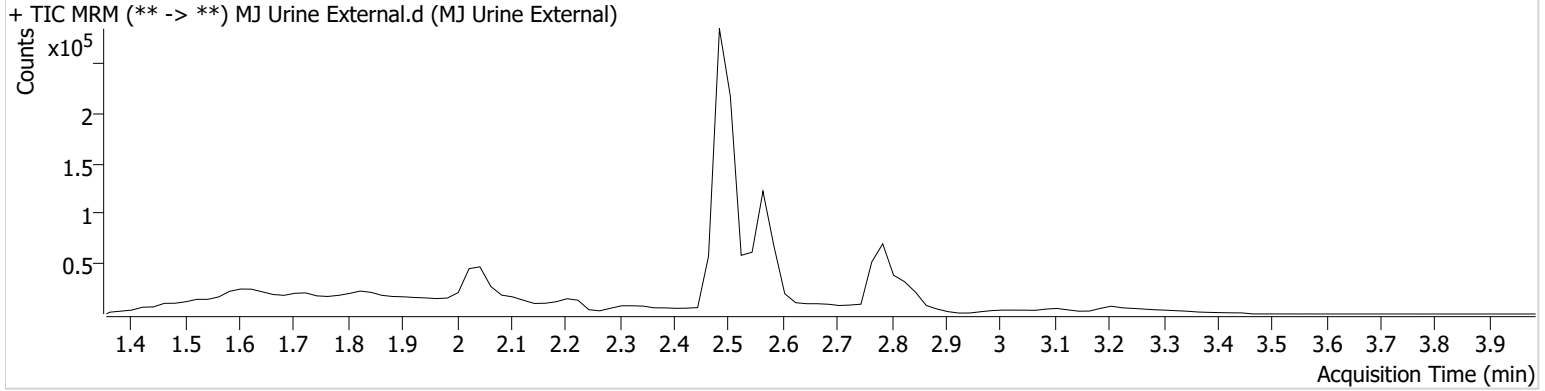


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Urine External.d
Type	Sample	Sample	MJ Urine External
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-D2	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 11:23:58 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	3814	40660	11.7101 ng/ml
THC-COOH	2.567	44903	163784	18.2426 ng/ml
THC-OH	2.494	14795	596133	14.0222 ng/ml

AR

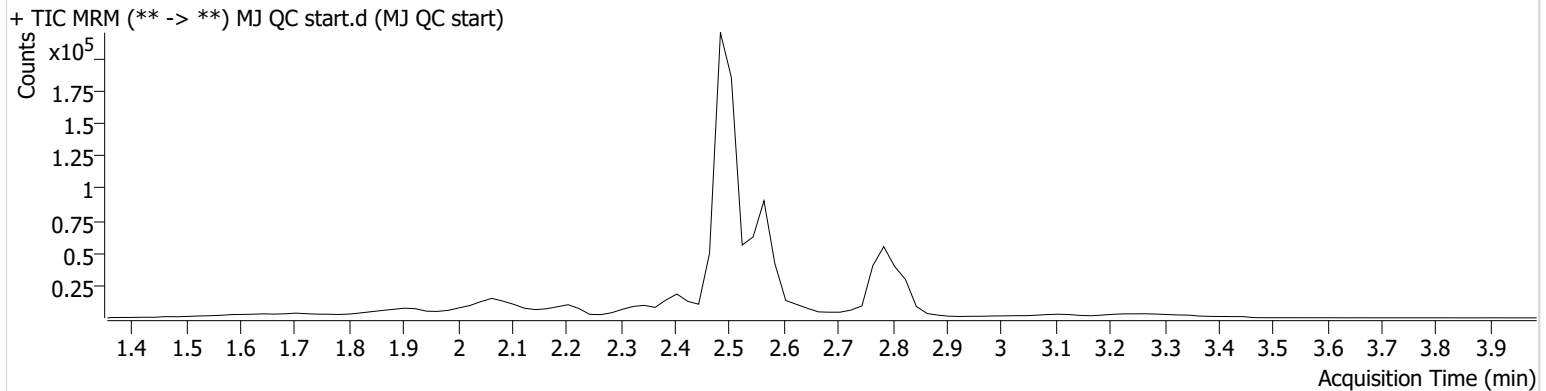


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ QC start.d
Type	Sample	Sample	MJ QC start
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:57:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	1306	32576	4.7768 ng/ml
THC-COOH	2.567	27407	114660	16.0055 ng/ml
THC-OH	2.494	5388	533353	5.4625 ng/ml

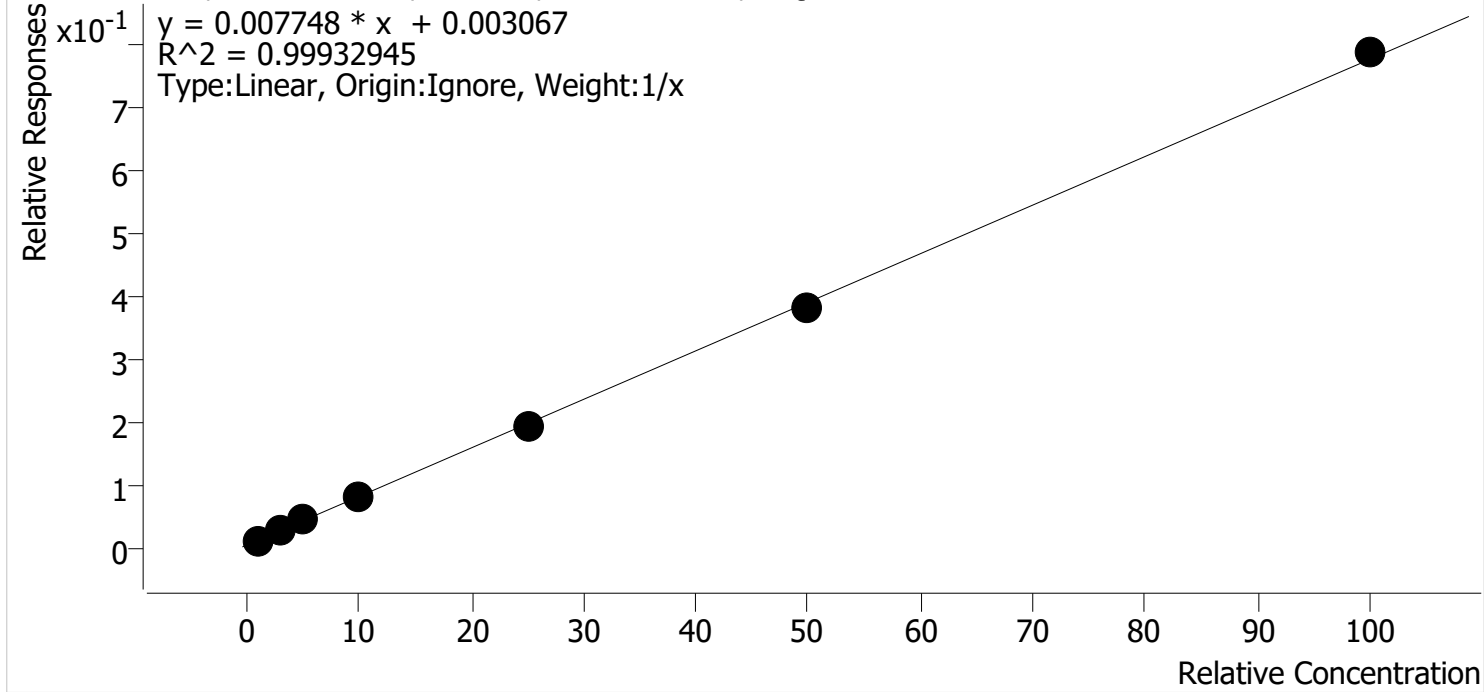
AR



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 9/20/2021 12:53 PM
Analyst Name ISP\lagerheart
Analyte THC **Internal Standard** THC-D3

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



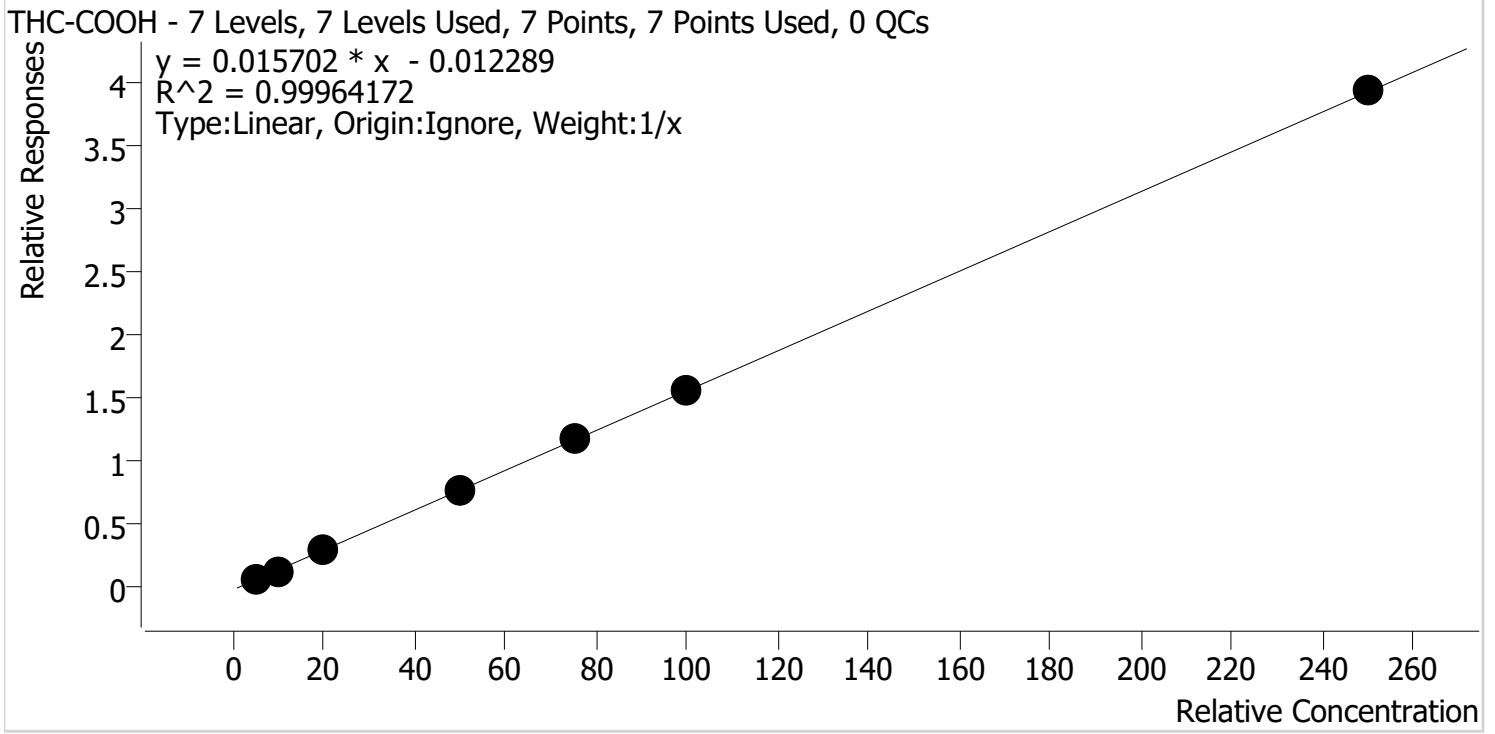
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	0.9	89.1
MJ Cal 2	2	✓	3.0	3.3	109.4
MJ Cal 3	3	✓	5.0	5.2	103.9
MJ Cal 4	4	✓	10.0	10.0	100.2
MJ Cal 5	5	✓	25.0	24.7	98.9
MJ Cal 6	6	✓	50.0	48.5	97.1
MJ Cal 7	7	✓	100.0	101.4	101.4

AA



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 9/20/2021 12:53 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	5.5	110.1
MJ Cal 2	2	✓	10.0	9.2	92.0
MJ Cal 3	3	✓	20.0	19.4	97.0
MJ Cal 4	4	✓	50.0	50.3	100.6
MJ Cal 5	5	✓	75.0	75.3	100.4
MJ Cal 6	6	✓	100.0	99.7	99.7
MJ Cal 7	7	✓	250.0	250.7	100.3

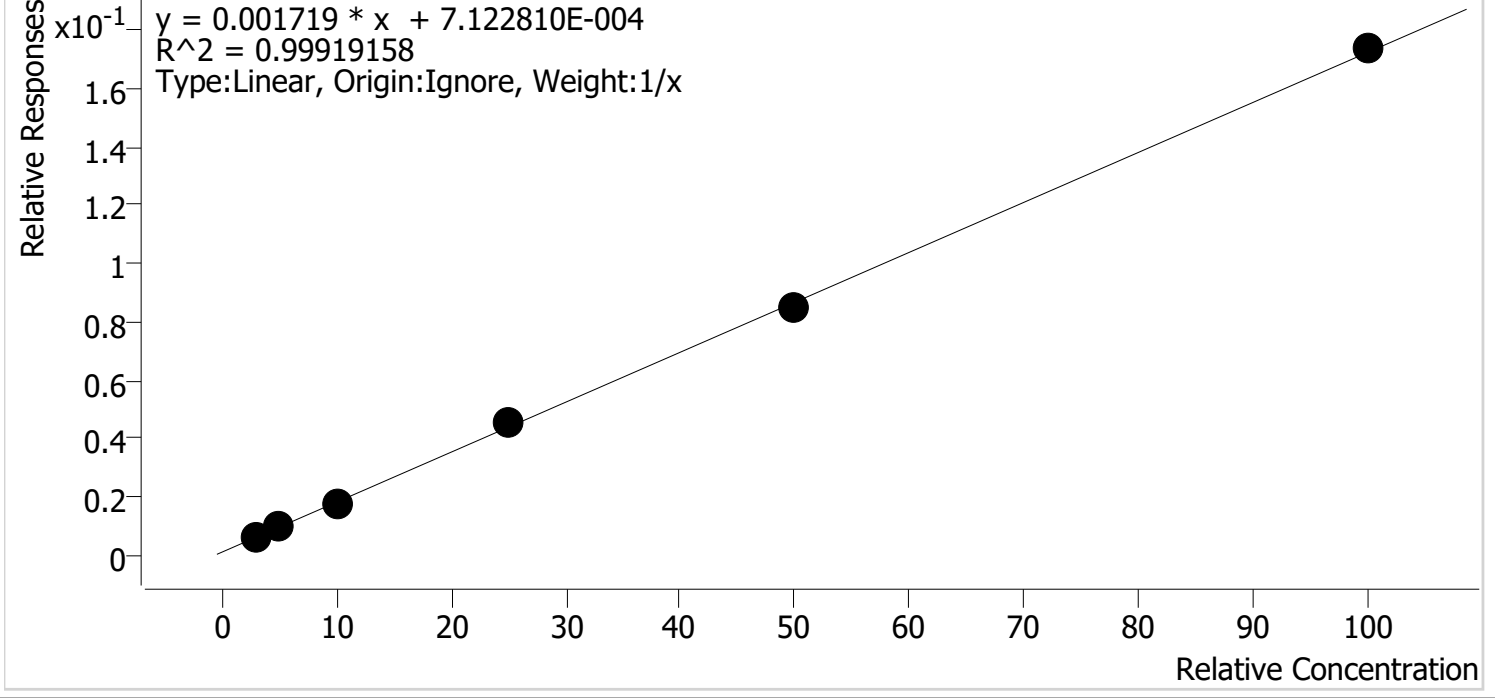
AR



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 9/20/2021 12:53 PM
Analyst Name ISP\lagerheart
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 6 Levels, 6 Levels Used, 6 Points, 6 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2	2	✓	3.0	3.1	103.7
MJ Cal 3	3	✓	5.0	5.0	100.4
MJ Cal 4	4	✓	10.0	9.4	93.7
MJ Cal 5	5	✓	25.0	26.0	103.9
MJ Cal 6	6	✓	50.0	48.8	97.6
MJ Cal 7	7	✓	100.0	100.7	100.7

AR

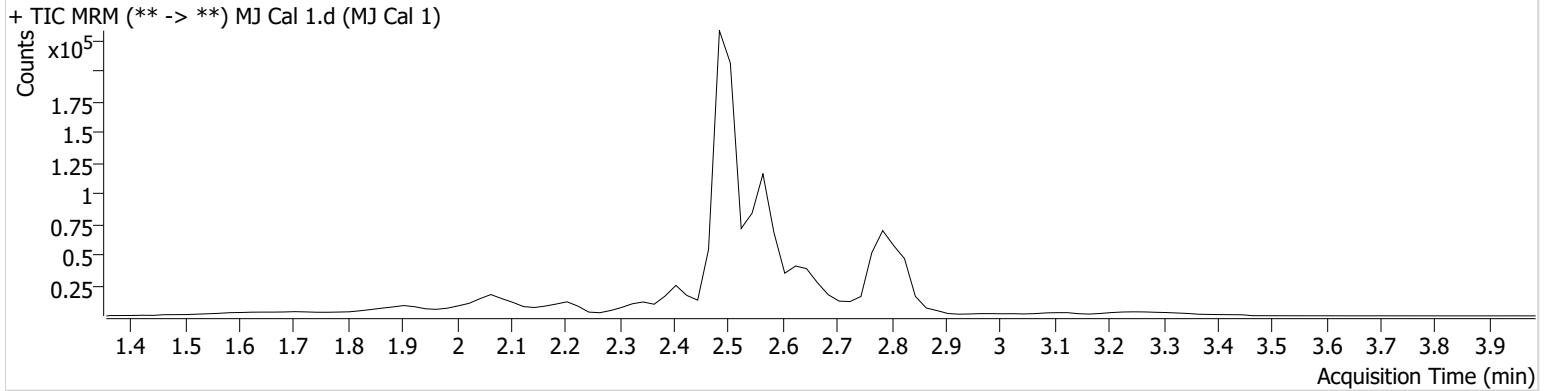


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-A1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:11:37 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	509	51009	0.8909 ng/ml	Low
THC-COOH	2.567	13032	175691	5.5065 ng/ml	

AR

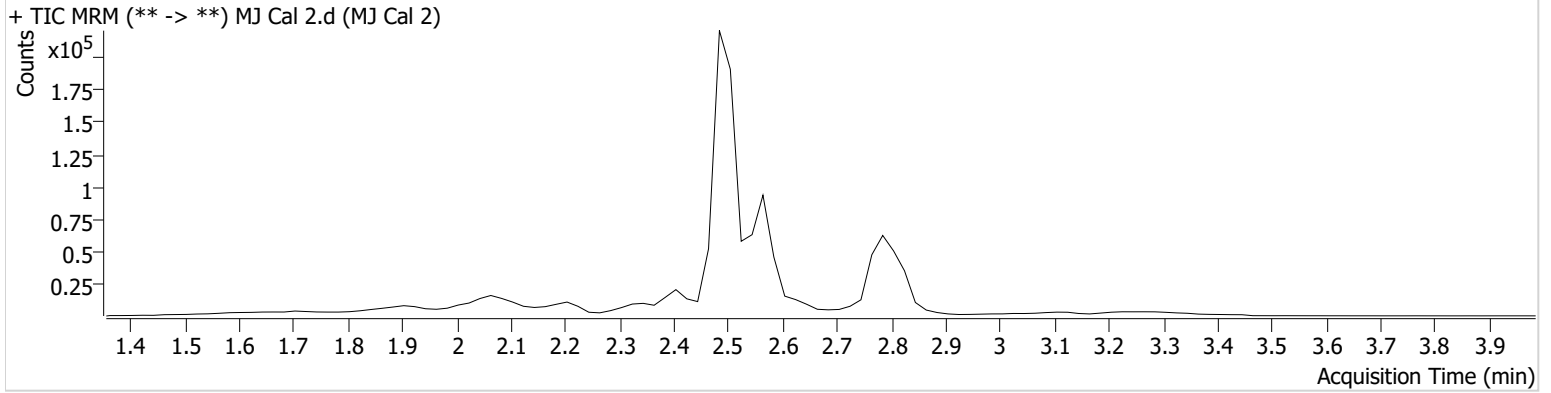


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:18:22 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	965	33856	3.2833 ng/ml
THC-COOH	2.567	18378	139024	9.2015 ng/ml
THC-OH	2.494	3403	561247	3.1122 ng/ml

AR

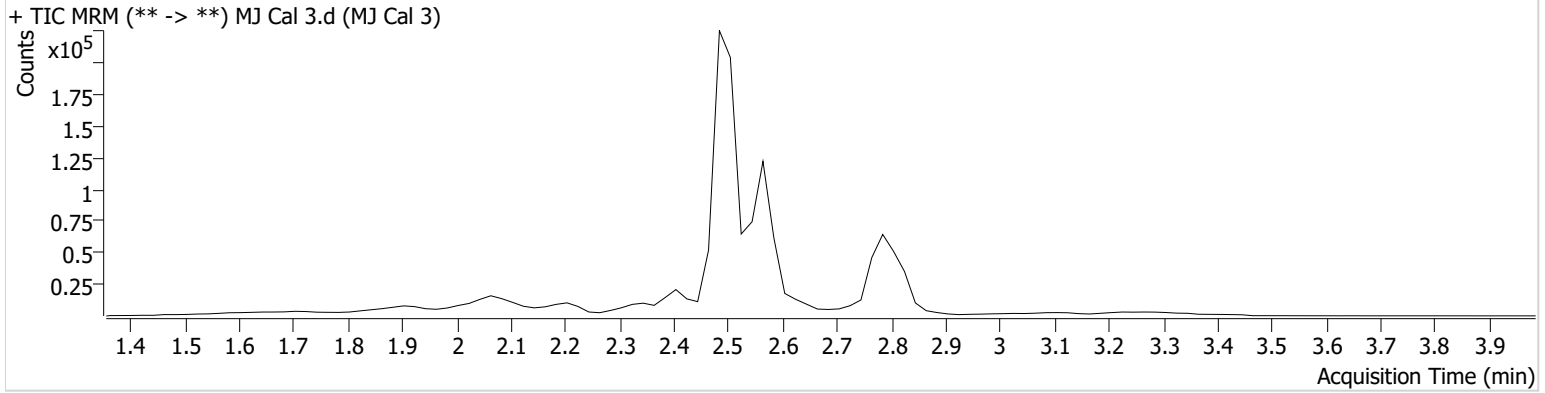


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:24:55 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	1667	38476	5.1964 ng/ml
THC-COOH	2.567	42614	145764	19.4012 ng/ml
THC-OH	2.494	5387	576765	5.0192 ng/ml

AR

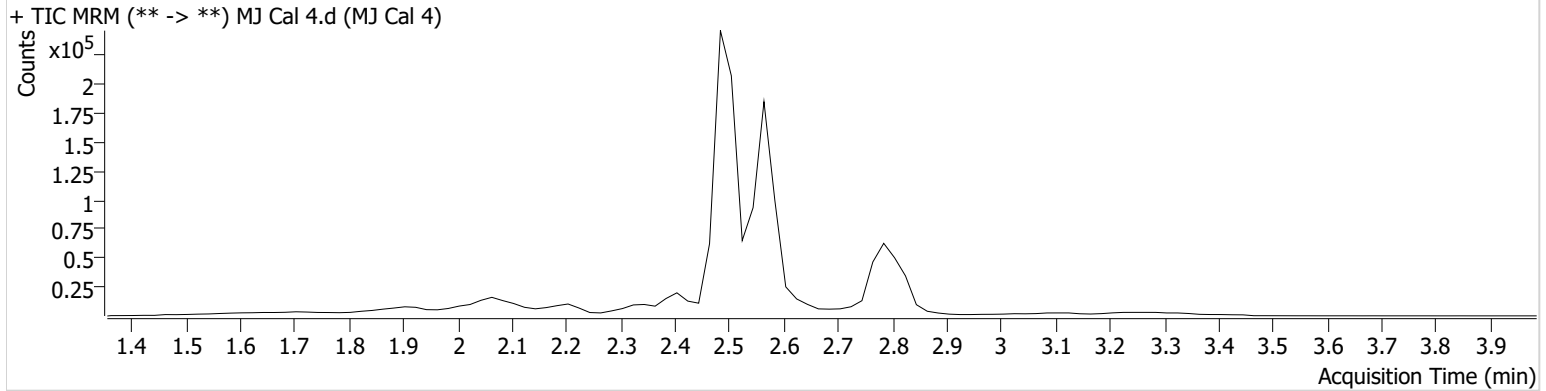


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:31:28 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	3151	39049	10.0207 ng/ml
THC-COOH	2.567	109399	140753	50.2818 ng/ml
THC-OH	2.494	9603	571165	9.3656 ng/ml

AR

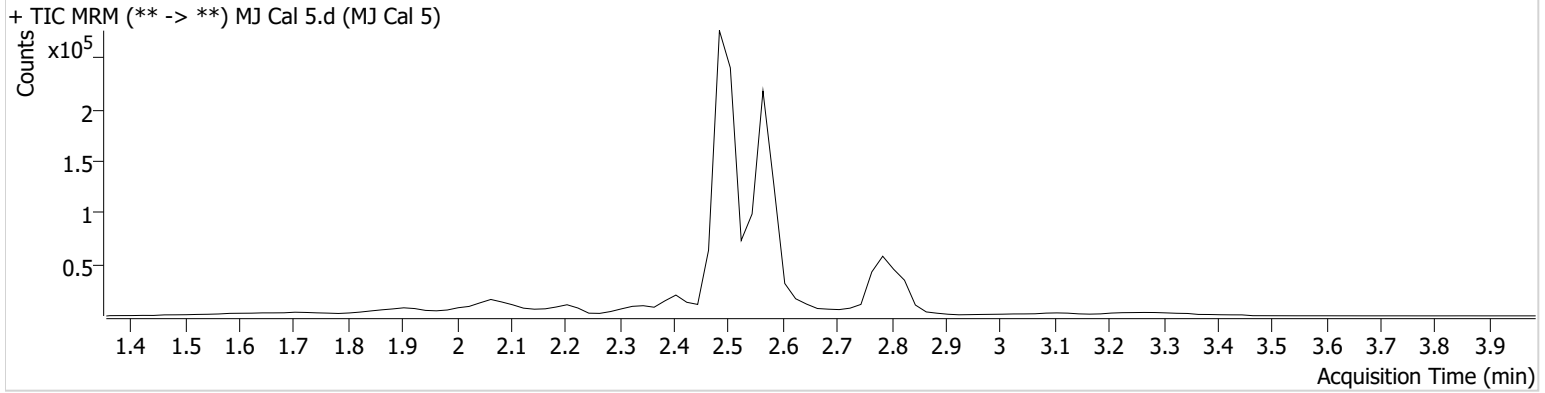


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:38:02 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	6722	34533	24.7301 ng/ml
THC-COOH	2.567	150601	128770	75.2650 ng/ml
THC-OH	2.494	25164	554883	25.9653 ng/ml

AR



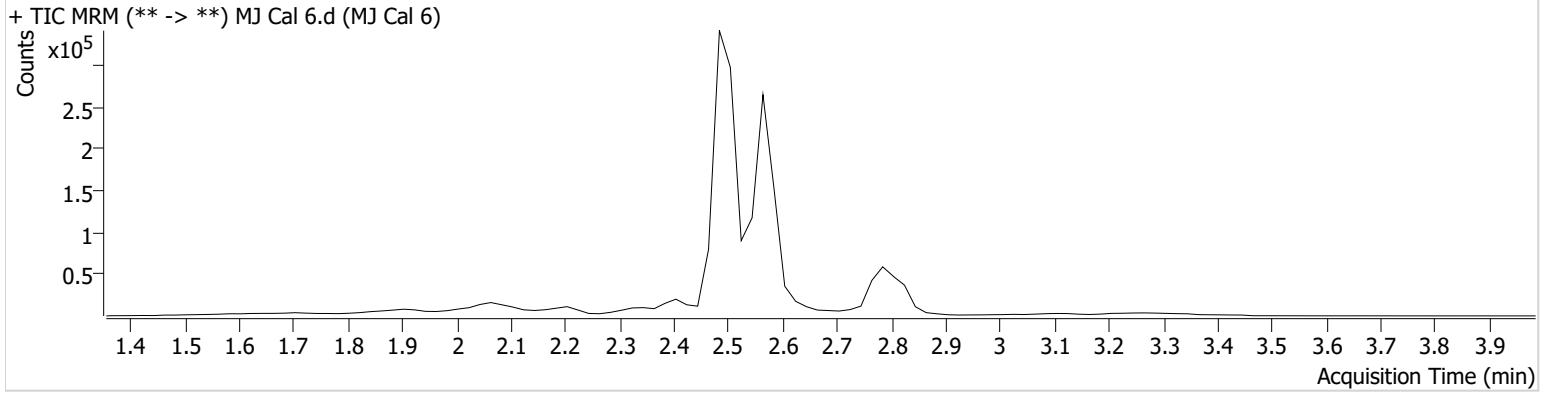
AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:44:36 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	12952	34170	48.5283 ng/ml
THC-COOH	2.567	194345	125179	99.6570 ng/ml
THC-OH	2.494	49045	579454	48.8207 ng/ml

AR



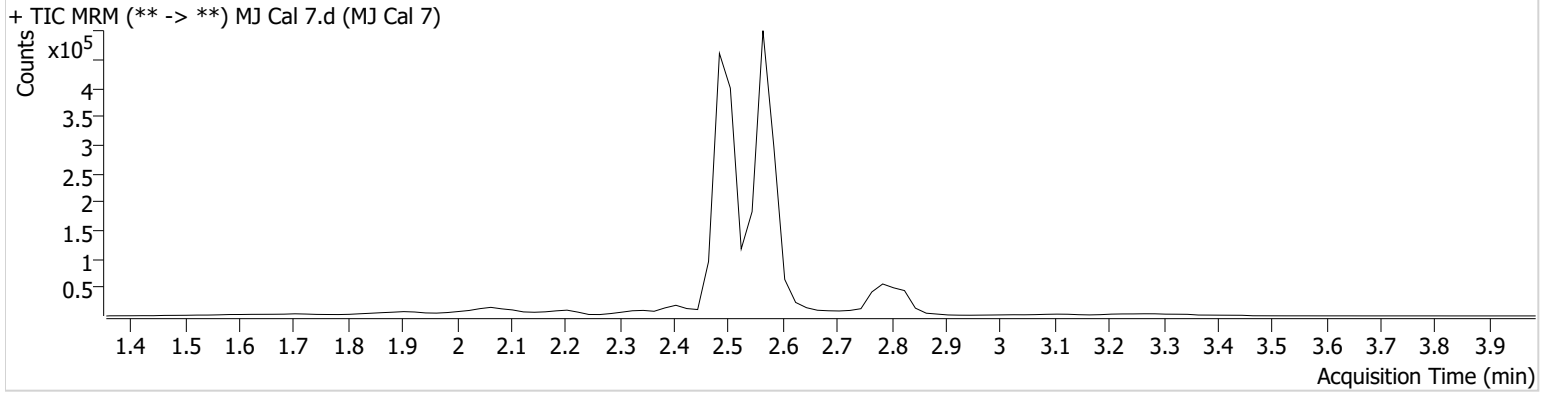
AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\091721 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 9/20/2021 12:53:04 PM

Instrument	Falco (069901)	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	9/17/2021 10:51:09 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	25645	32532	101.3502 ng/ml
THC-COOH	2.567	432780	110290	250.6870 ng/ml
THC-OH	2.494	95975	552034	100.7170 ng/ml