

REVIEWED

By Tamara Salazar at 2:44 pm, May 03, 2021

4/29/2021

Worklist: 4936

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-1379	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	10	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-1379	11	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-1379	12	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-1379	2	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	3	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	4	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	5	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	6	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-1379	7	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-1379	8	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	
P2021-1379	9	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ	

AA

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

Extraction Date: 4/30/2021

Analyst: Amber Gerheart

Plate lot#: 201206

Plate Expiration: 6/6/2021

Mobile phase A: 10mM Amm Form

Mobile phase B: 0.1% Formic Acid in MeOH

Instant Buffer I

Ethyl Acetate

LC Methanol

Blank Blood Lot: Lampire 20L20723

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

LCMS-QQ 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: 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:

AA

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	P2021-1379-4	P2021-1379-12	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	P2021-1379-5	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Negative Blood	P2021-1379-6	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	Negative Urine	P2021-1379-7	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	Urine External	P2021-1379-8	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	P2021-1379-1	P2021-1379-9	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	P2021-1379-2	P2021-1379-10	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	P2021-1379-3	P2021-1379-11	IS + Sample	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

AA



Idaho State Police Forensic Services

**AM #25 Blood and 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: 031820)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
Methanol (LCMS)	Fisher	193068	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared: 03/18/20			
Prepared By: Sarah Pickle			
Expires: 03/18/21			

Urine External Control Solution (Lot: WS052220)

200 ul of methanol external control solution was added to 9800 ul of urine.

Approximately 100ng/mL of each compound.

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	03/18/21	

As per AM 21, use of expired controls are okay as urine samples are reported qualitatively

AG

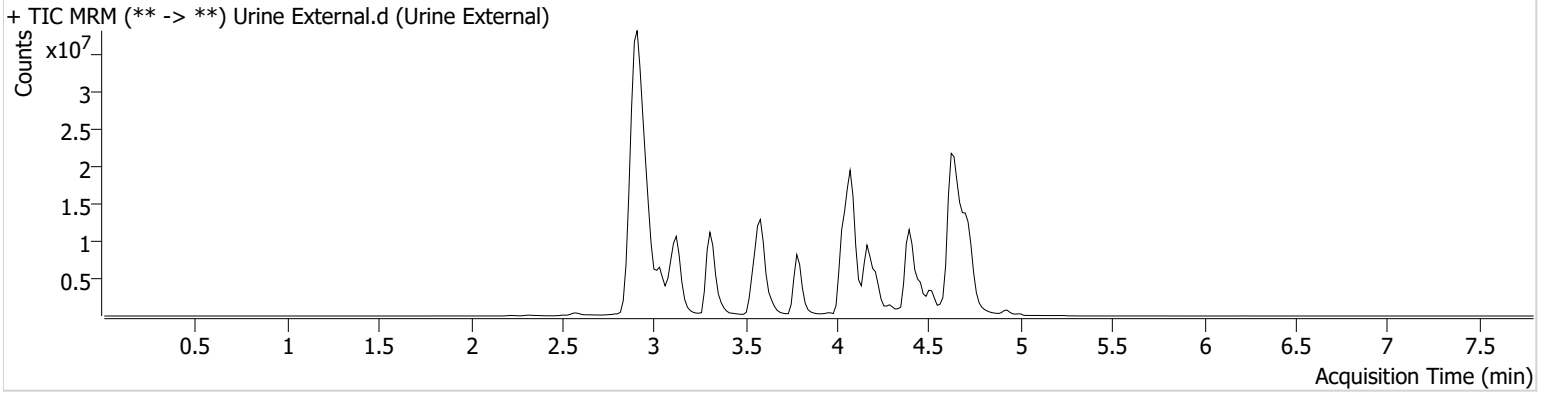


AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/3/2021 8:38:07 AM

Instrument	Instrument 1	Data File	Urine External.d
Type	Sample	Sample	Urine External
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P6-E1	Comment	
Injection Volume	5		
Acq. Date-Time	4/30/2021 12:39:30 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	36889182	29527.05	990.90	29339564	69.8854
Amphetamine	2.905	38679799	1387.71	1091.42	12914963	76.1174
O-desmethyl-tramadol	2.930	55167014	67742.14	1571.67	48407325	42.2569

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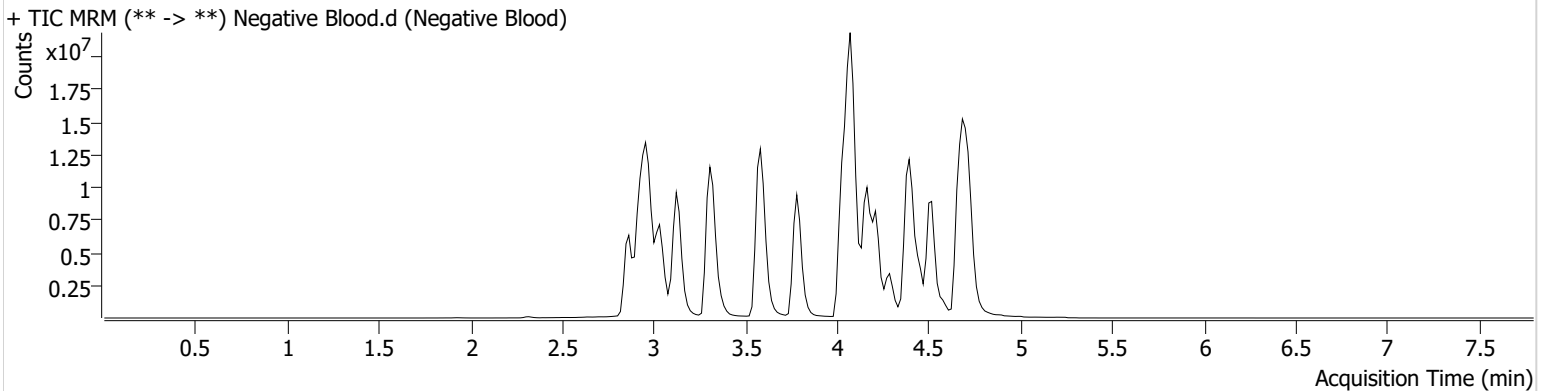


AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/3/2021 8:38:07 AM

Instrument	Instrument 1	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P6-C1	Comment	
Injection Volume	5		
Acq. Date-Time	4/30/2021 12:22:43 PM		
Sample Info.			

Sample Chromatogram



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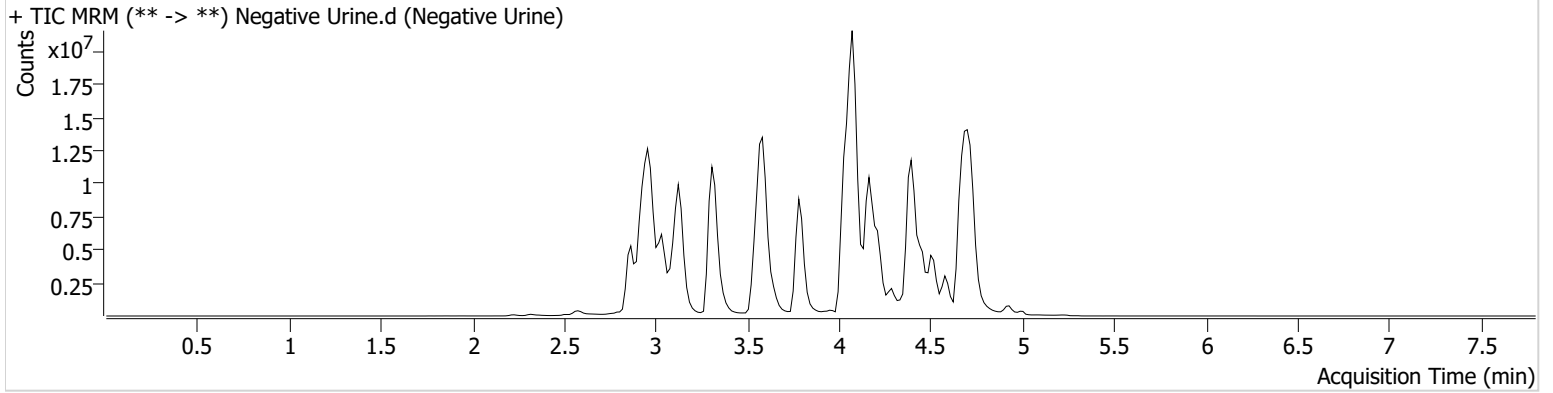


AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/3/2021 8:38:07 AM

Instrument	Instrument 1	Data File	Negative Urine.d
Type	Sample	Sample	Negative Urine
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P6-D1	Comment	
Injection Volume	5		
Acq. Date-Time	4/30/2021 12:31:06 PM		
Sample Info.			

Sample Chromatogram



AM

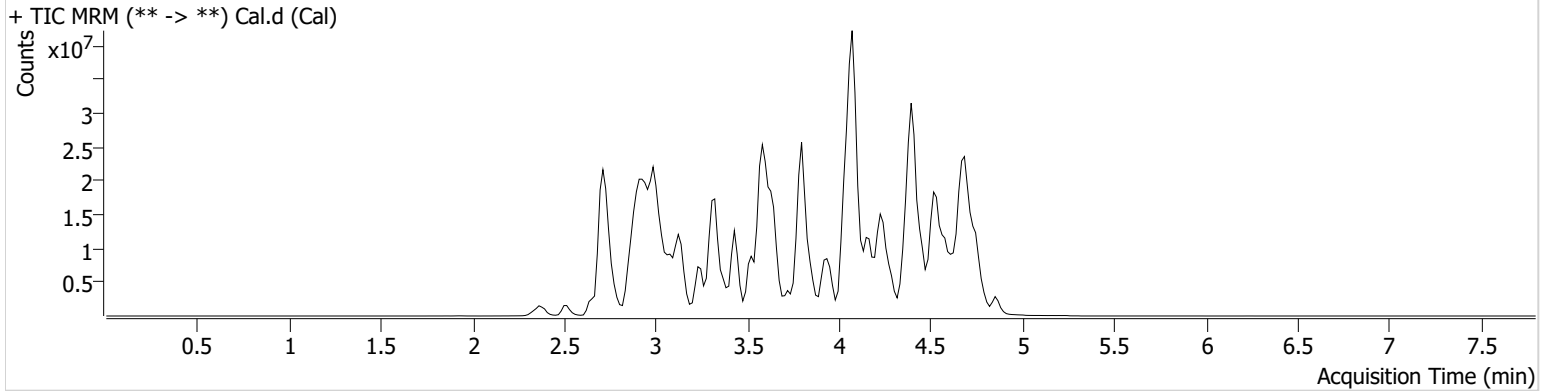


AM #25 Multi-Drug Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 5/3/2021 8:38:07 AM

Instrument	Instrument 1	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Amber Gerheart
Sample Position	P6-A1	Comment	
Injection Volume	5		
Acq. Date-Time	4/30/2021 12:14:09 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.953	120523	3605.00	8681.51	3581994	10.0000
7-aminoclonazepam	3.584	2247629	232.77	619.99	9744572	10.0000
7-aminoflunitrazepam	3.783	3394933	1579.65	55414.33	9744572	10.0000
Acetyl Fentanyl	3.933	761115	500.70	413170.07	43033478	10.0000
Acetyl Norfentanyl	2.901	720108	2696.89	3347.22	43033478	10.0000
a-hydroxyalprazolam	4.531	952242	313.28	146.71	9744572	10.0000
alpha-hydroxymidazolam	4.606	5411540	1086.99	751.76	9744572	10.0000
Alpha-PHP	3.849	7841806	19638.37	631.65	43033478	10.0000
alpha-PVP	3.575	9012866	938.46	410.71	20686107	10.0000
Alprazolam	4.626	6515952	1542.53	6948.11	36217534	10.0000
Amitriptyline	4.461	1212908	229.65	119.96	5361668	10.0000
Amphetamine	2.905	8139274	3072.49	2505.95	20686107	10.0000
Benzoylcegonine	3.385	557310	1014.60	426.47	995341	10.0000
Brompheniramine	4.041	163744	140.67	2445.20	52399336	10.0000
Buprenorphine	4.786	2037610	77978.22	112248.92	7995855	10.0000
Bupropion	3.804	10346055	804.94	783.84	30568715	10.0000
Carbamazepine	4.250	19623302	∞	798.18	1865633	10.0000
Carisoprodol	4.233	2864797	451.54	235.38	16605560	10.0000
Chlordiazepoxide	4.750	3268398	296.70	2864.00	36217534	10.0000
Chlorpheniramine	3.954	13253070	62439.73	52.12	52399336	10.0000
Citalopram	4.071	5153362	484.29	423.10	52399336	10.0000
Clomipramine	4.655	1102245	3932.81	701.22	52399336	10.0000
Clonazepam	4.455	4214063	948.93	386.03	36217534	10.0000
Clonazolam	4.375	3373596	1433433.31	821967.57	36217534	10.0000
Cocaethylene	3.796	9901315	9535495.58	25557.61	39763519	10.0000
Cocaine	3.582	9383356	5224793.20	6096.48	39763519	10.0000
Codeine	2.866	725615	2859.90	7690.63	21282746	10.0000
Cyclobenzaprine	4.370	1880702	651.78	71.91	5361668	10.0000
Desipramine	4.386	2767780	574.30	388.26	5361668	10.0000
Dextromethorphan	4.093	3596398	207.49	2109.21	18137467	10.0000
Dextrorphan	3.372	5210313	844.87	1457.01	18137467	10.0000
Diazepam	4.859	3596492	2348.89	1023.04	36217534	10.0000
Dihydrocodeine	2.774	2043844	266.00	1316.98	21282746	10.0000
Diphenhydramine	4.047	16066118	1046.09	1052.26	52399336	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.168	2357786	512.88	112.57	33617200	10.0000
Doxylamine	3.647	18544707	23737.89	7232.70	18137467	10.0000
EDDP	4.076	2868803	464.48	680.10	6548806	10.0000
Estazolam	4.535	15219418	1501.44	955.82	36217534	10.0000
Etizolam	4.636	859748	817632.55	2832086.04	36217534	10.0000
Fentanyl	4.162	464697	125.80	2885.90	26928593	10.0000
Flualprazolam	4.484	2459578	176041.60	2354700.47	36217534	10.0000
Flunitrazepam	4.579	7427059	5188310.54	1673.92	36217534	10.0000
Fluoxetine	4.335	1064695	645169.64	179.51	1342678	10.0000
Flurazepam	4.237	7284886	4375118.98	750715.20	36217534	10.0000
Hydrocodone	3.064	3287078	495.96	587.16	21282746	10.0000
Hydromorphone	2.519	2703811	774.98	999.10	313548	10.0000
Imipramine	4.414	5362584	1553.88	61.08	5361668	10.0000
Ketamine	3.620	6414160	2011962.33	364.45	27961189	10.0000
Lamotrigine	3.618	525237	2142.03	3252.44	52399336	10.0000
Levamisole	3.009	5962876	1586.30	698.54	39763519	10.0000
Levetiracetam	2.659	2548063	1030.02	1662.04	52399336	10.0000
Lorazepam	4.439	1621812	844.26	∞	36217534	10.0000
Maprotiline	4.461	814108	81.91	212.86	5361668	10.0000
MDA	3.010	5971545	994.88	224.89	40174758	10.0000
MDEA	3.238	8744504	2358.84	1048.11	40174758	10.0000
MDMA	3.085	11542780	26819.83	986.88	40174758	10.0000
Meperidine	3.619	4511116	600.66	459.47	18137467	10.0000
Meprobamate	3.668	1654220	352.52	3385.04	16605560	10.0000
Methadone	4.395	10611050	783.25	866.30	6548806	10.0000
Methamphetamine	2.996	13277778	814.11	346.73	40174758	10.0000
Methocarbamol	3.573	1107909	867.58	235.12	6548806	10.0000
Methylphenidate	3.528	20619001	2235.01	403.23	31941493	10.0000
Metoprolol	3.433	1387966	240.29	849.97	18137467	10.0000
Midazolam	4.775	1297069	619.19	535643.94	36217534	10.0000
Mirtazapine	4.063	5494012	1690532.85	1194154.35	18137467	10.0000
Mitragynine	4.251	795062	466755.89	1575646.13	18137467	10.0000
Morphine	2.337	495789	∞	551.85	313548	10.0000
Norbuprenorphine	3.838	155116	90618.85	76802.06	7995855	10.0000
Nordiazepam	4.707	3117619	784.13	2123.38	36217534	10.0000
Norfentanyl	3.329	14040040	28336.15	2190.29	43033478	10.0000
Norhydrocodone	2.944	63936	60.78	39.61	313548	10.0000
Norketamine	3.728	1477919	306.01	1278719.51	27961189	10.0000
Normeperidine	3.605	4078539	639.37	391.13	52399336	10.0000
Noroxycodone	2.896	2510446	199.24	402.25	27961189	10.0000
Nortriptyline	4.432	715962	561.76	66.69	5361668	10.0000
O-desmethyl-tramadol	2.915	14131785	43540.02	580.82	52399336	10.0000
Olanzapine	3.858	1996269	1023.46	2743.92	1865633	10.0000
Oxazepam	4.521	6863541	1721.74	197.96	26804275	10.0000
Oxycodone	2.939	6184604	1074.74	1991.24	27961189	10.0000
Oxymorphone	2.363	2759235	354.18	6295.70	313548	10.0000
Paroxetine	4.346	170975	59583.60	157569.88	1342678	10.0000
Phenazepam	4.651	5610096	4260.01	712.15	36217534	10.0000
Phencyclidine	3.926	11142043	636.64	390.85	18137467	10.0000
Phentermine	3.149	3090405	226.78	27.64	31941493	10.0000
Phenytoin	4.141	3100380	1170.44	1122.14	1865633	10.0000
Promethazine	4.368	5926153	5903.00	491.90	52399336	10.0000
Pseudoephedrine	2.720	60672699	946.05	15413.87	40174758	10.0000
Quetiapine	4.574	7347645	920.44	4023.20	46304473	10.0000
Sertraline	4.581	242893	301.13	314.64	1342678	10.0000
Sufentanil	4.558	318008	275272.93	103.42	43033478	10.0000
Tapentadol	3.438	10636468	1160.64	1135.68	27961189	10.0000
Temazepam	4.673	10014591	449.94	356.87	36217534	10.0000
Tramadol	3.433	17416018	851.59	326.64	52399336	10.0000
Trazodone	4.742	9471514	5718934.37	7341284.50	33617200	10.0000

Cal

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AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.800	13182878	217767.86	2337.63	1342678	10.0000
Zaleplon	4.351	7106987	5536718.70	1109.91	46304473	10.0000
Zolpidem	4.396	18111809	6367232.63	5452635.94	46304473	10.0000
Zopiclone	4.282	1812467	641019.17	1408921.95	9296027	10.0000

AA

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

Extraction Date: 4/30/2021

Analyst: Amber Gerheart

Plate lot#: 210412

Plate Expiration: 10/12/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Blood Lot: Lampire 20L20723

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: THC-OH not evaluated

Curve range: THC 5-100 ng/mL

AK

	1	2	3	4	5	6
A	IS + Cal. 1	Negative Blood	P2021-1379-6	IS + Sample	IS + Sample	IS + QC_1
B	IS + Cal. 2	Negative Urine	P2021-1379-7	IS + Sample	IS + Sample	IS + Cal. 7
C	IS + Cal. 3	Urine External	P2021-1379-8	IS + Sample	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	P2021-1379-1	P2021-1379-9	IS + Sample	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	P2021-1379-2	P2021-1379-10	IS + Sample	IS + Sample	IS + Cal. 4
F	IS + Cal. 6	P2021-1379-3	P2021-1379-11	IS + Sample	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	P2021-1379-4	P2021-1379-12	IS + Sample	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2021-1379-5	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

AS



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		
Prepared By:	Tamara Salazar/Amber Gerheart		

Urine External Control Solution (Lot: 04232021)

200 ul of methanol external control solution was added to 9800 ul of blood.

Approximately 20ng/mL each

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Lampire	20L20724
Methanol External Control Solution	-	WS03052021
Prepared:	04/23/2021	
Prepared by:	Sarah Collins	

AM

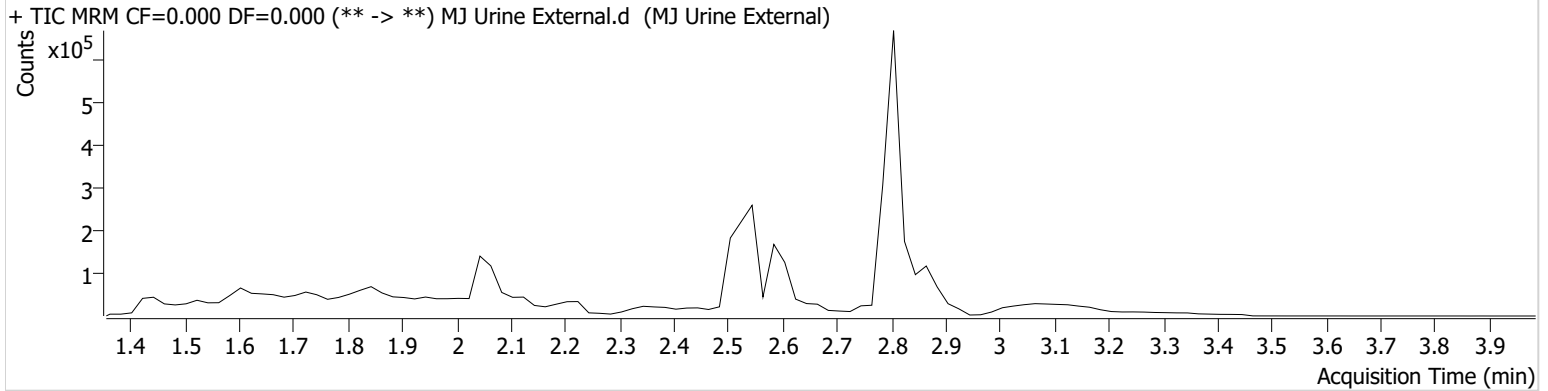


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Urine External.d
Type	Sample	Sample	MJ Urine External
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-C2	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 4:36:59 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	12024	121964	13.7917 ng/ml
THC-COOH	2.585	29213	266733	10.2397 ng/ml
THC-OH	2.554	10763	698623	8.1827 ng/ml

AG

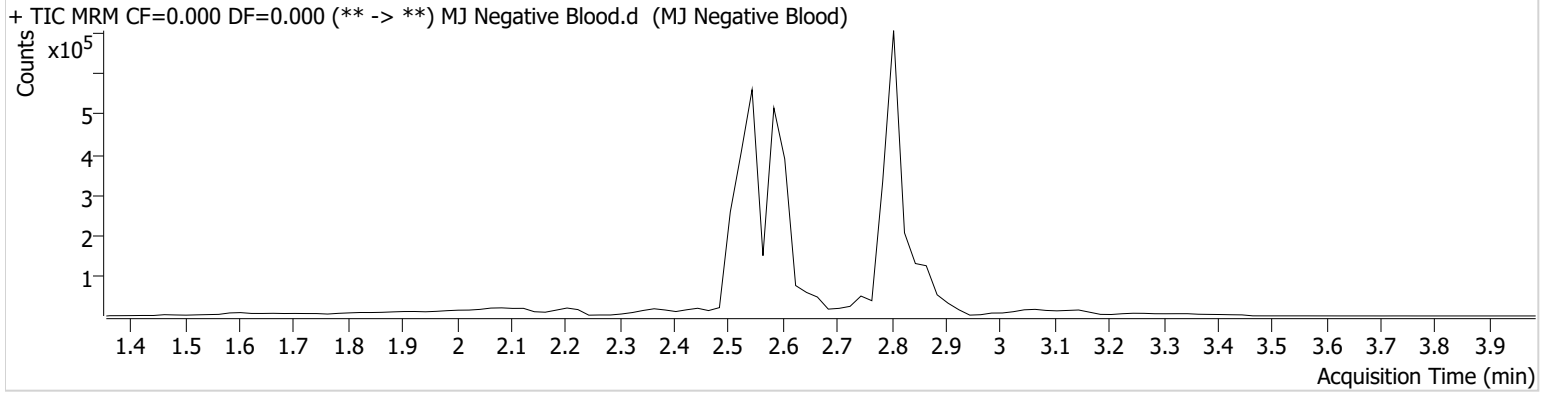


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument Type	Instrument 1 Sample	Data File	MJ Negative Blood.d
Acq. Method	AM 26 THCS.m	Sample	MJ Negative Blood
Sample Position	P5-A2	Operator	Amber Gerheart
Injection Volume	10	Comment	
Acq. Date-Time	4/30/2021 4:23:57 PM		
Sample Info.			

Sample Chromatogram



AM

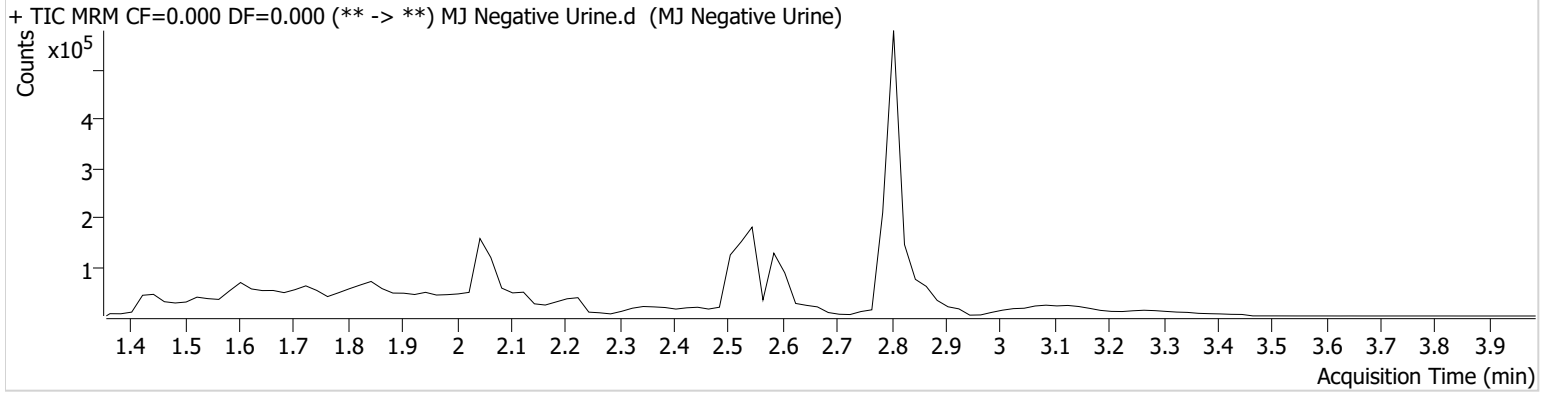


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Negative Urine.d
Type	Sample	Sample	MJ Negative Urine
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-B2	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 4:30:28 PM		
Sample Info.			

Sample Chromatogram



AM

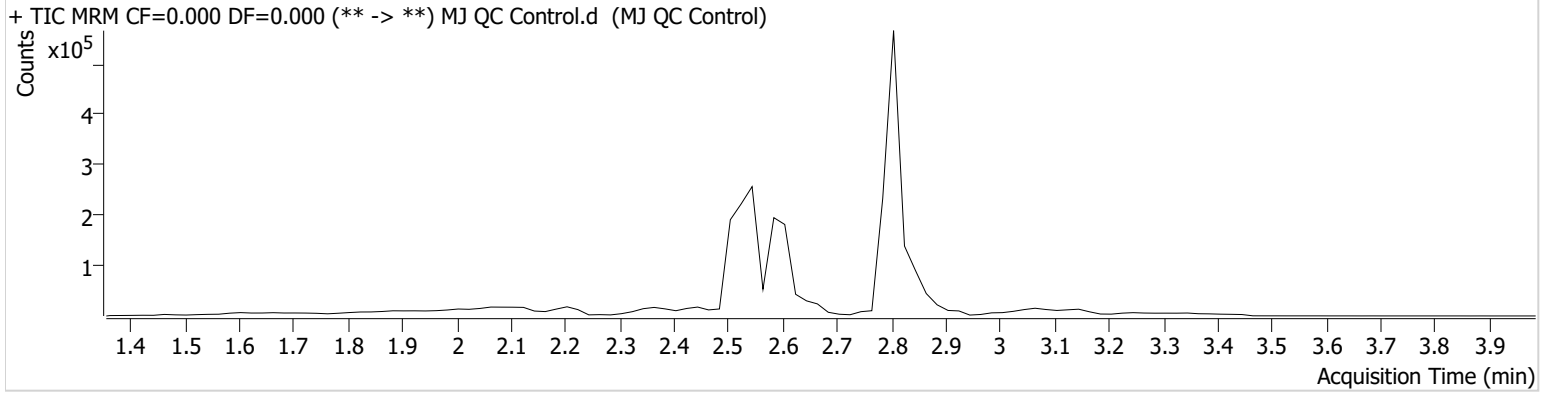


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ QC Control.d
Type	Sample	Sample	MJ QC Control
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-H1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 4:10:53 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	3014	78683	5.2868 ng/ml
THC-COOH	2.605	91257	304776	28.6750 ng/ml
THC-OH	2.554	5055	785712	1.9419 ng/ml Low

AM

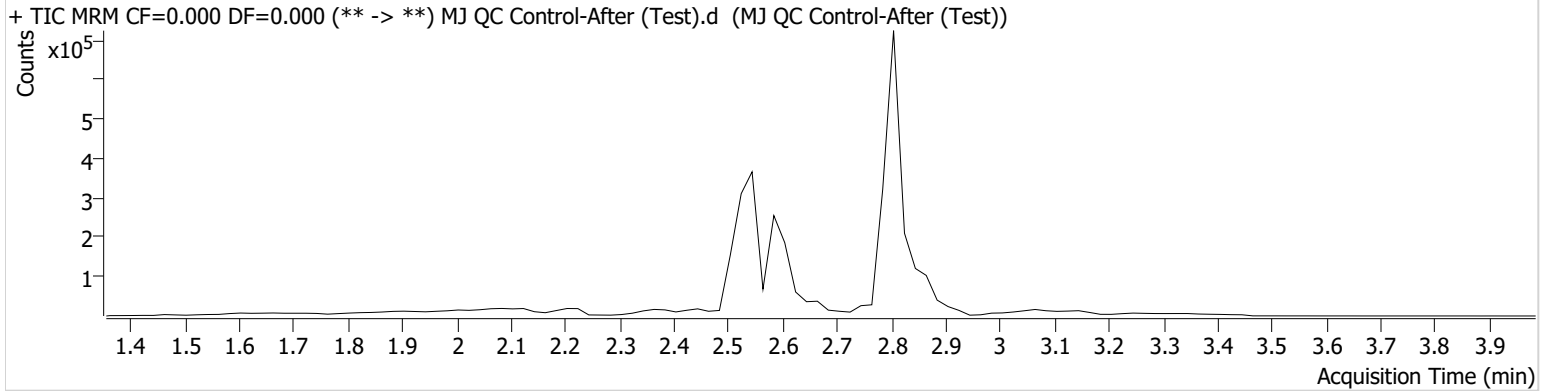


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ QC Control-After (Test).d
Type	Sample	Sample	MJ QC Control-After (Test)
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-H1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 6:01:47 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	4877	134903	4.9834 ng/ml
THC-COOH	2.625	59031	444646	12.4957 ng/ml
THC-OH	2.554	5410	933672	1.4972 ng/ml Low

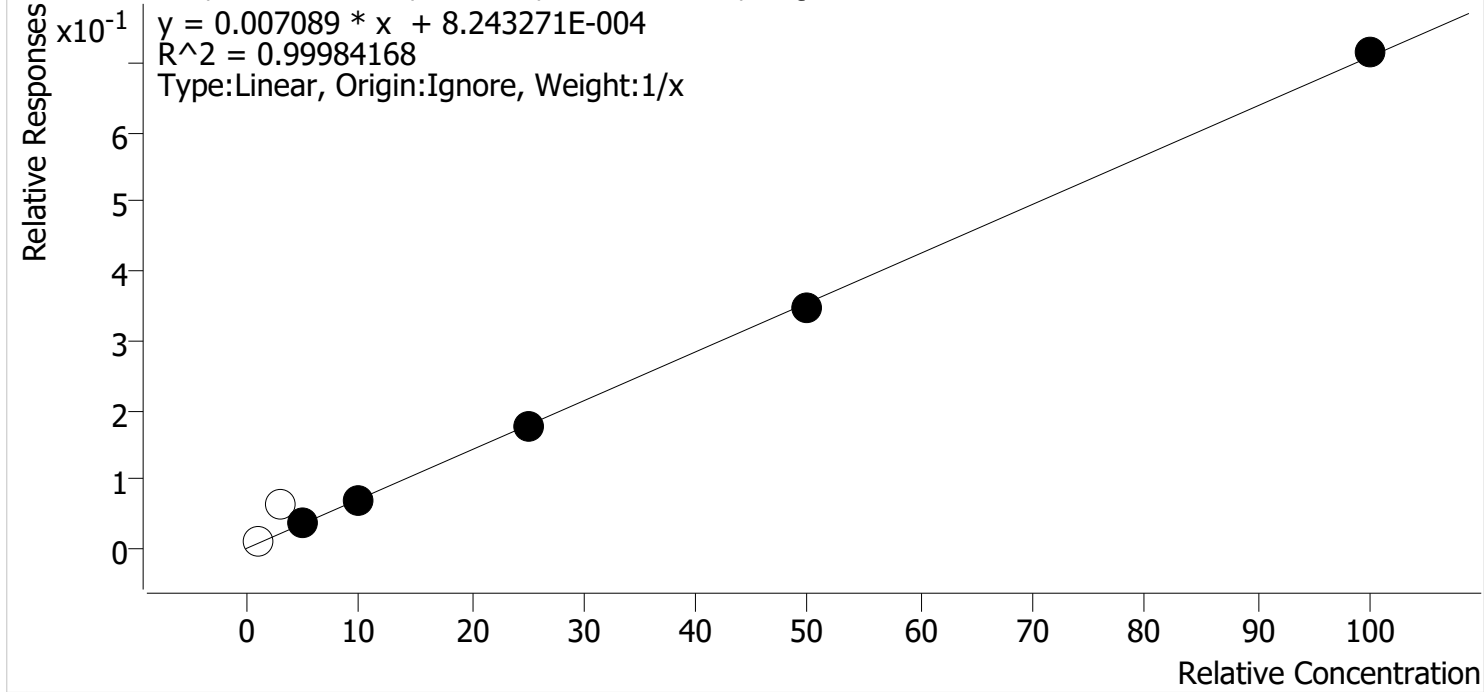
AM



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/3/2021 8:40 AM
Analyst Name ISP\datastor
Analyte THC **Internal Standard** THC-D3

THC - 7 Levels, 5 Levels Used, 7 Points, 5 Points Used, 0 QCs



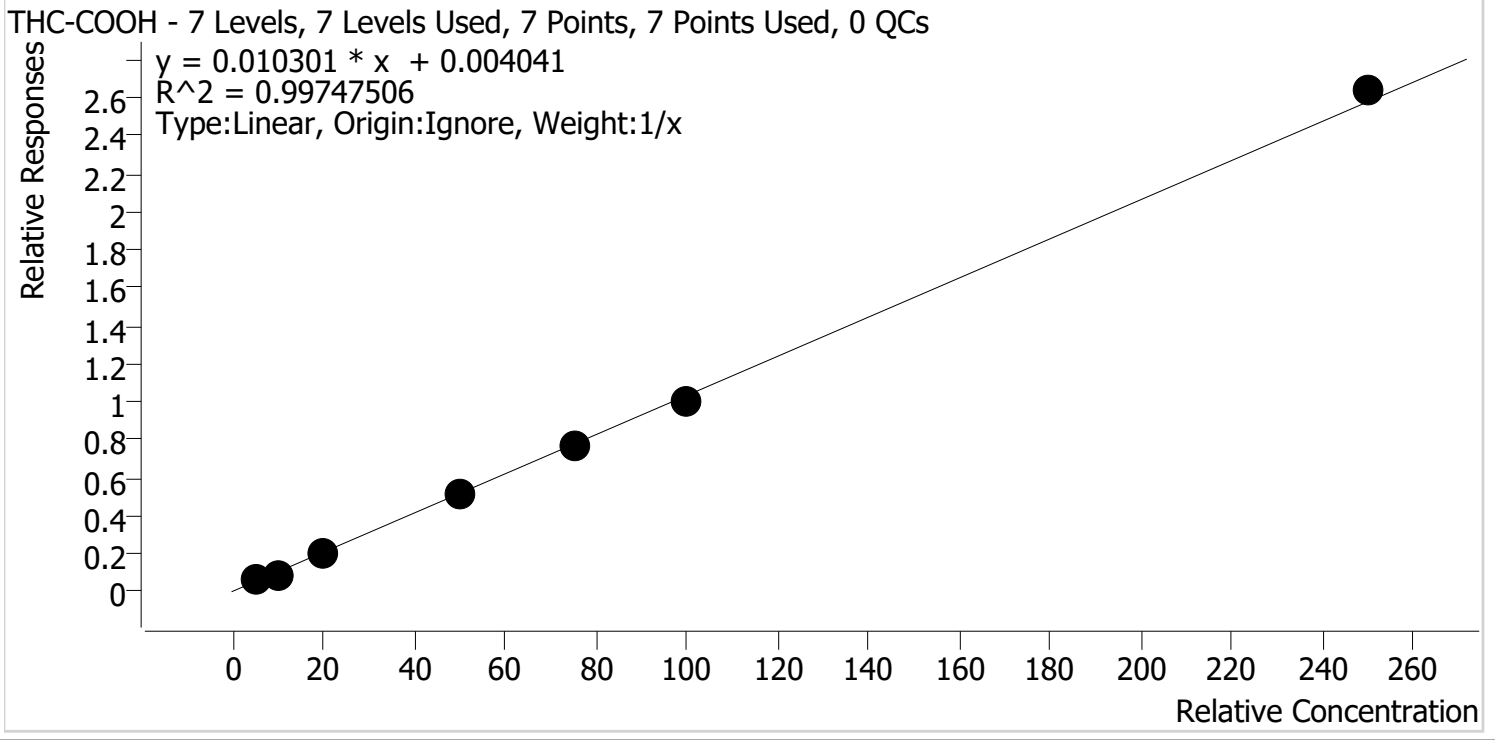
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	1.5	153.6
MJ Cal 2	2	x	3.0	9.3	309.0
MJ Cal 3	3	✓	5.0	5.1	101.1
MJ Cal 4	4	✓	10.0	10.0	100.2
MJ Cal 5	5	✓	25.0	24.8	99.4
MJ Cal 6	6	✓	50.0	49.3	98.5
MJ Cal 7	7	✓	100.0	100.8	100.8

AM



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/3/2021 8:40 AM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	6.3	125.9
MJ Cal 2	2	✓	10.0	8.4	83.9
MJ Cal 3	3	✓	20.0	18.4	91.9
MJ Cal 4	4	✓	50.0	49.8	99.6
MJ Cal 5	5	✓	75.0	75.0	100.0
MJ Cal 6	6	✓	100.0	96.5	96.5
MJ Cal 7	7	✓	250.0	255.6	102.3

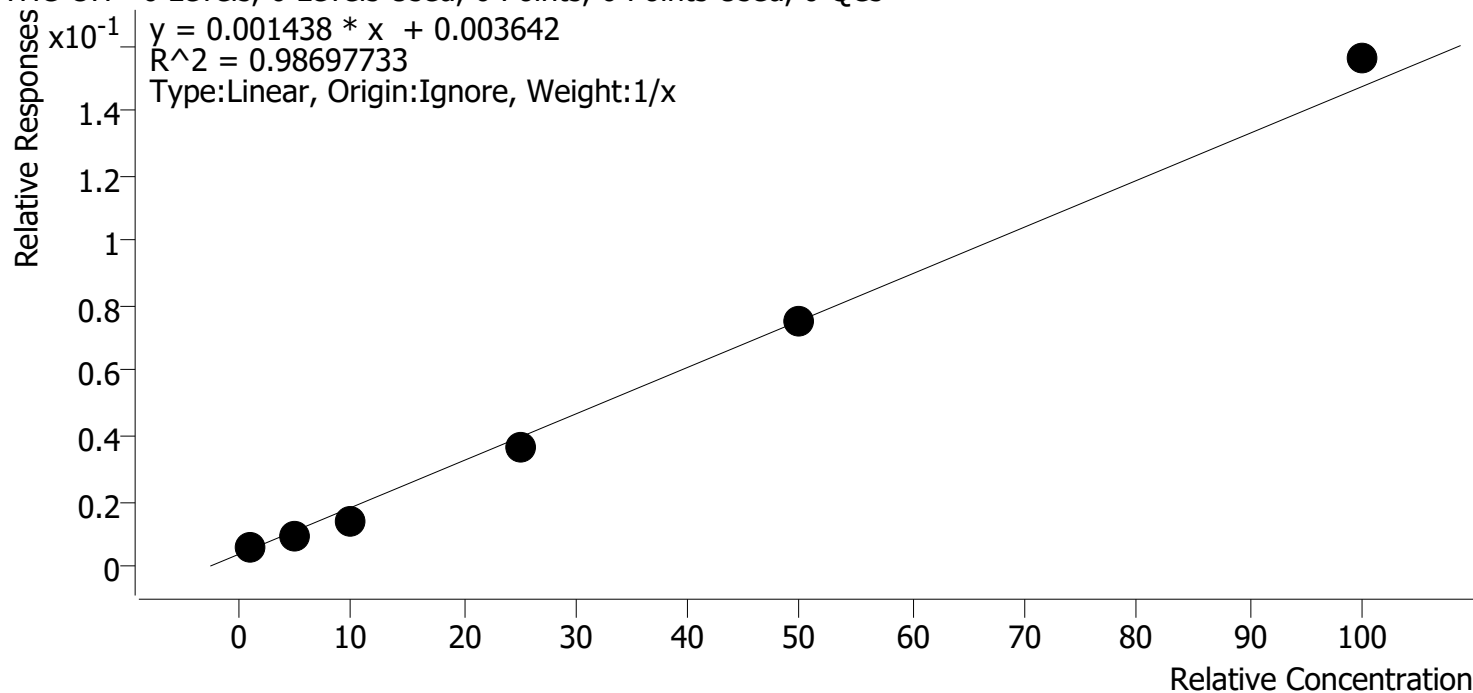
AS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 5/3/2021 8:40 AM
Analyst Name ISP\datastor
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 1	1	✓	1.0	1.6	161.3
MJ Cal 3	3	✓	5.0	3.5	69.8
MJ Cal 4	4	✓	10.0	7.2	71.8
MJ Cal 5	5	✓	25.0	22.8	91.3
MJ Cal 6	6	✓	50.0	49.9	99.8
MJ Cal 7	7	✓	100.0	106.0	106.0

Compound not evaluated

AM

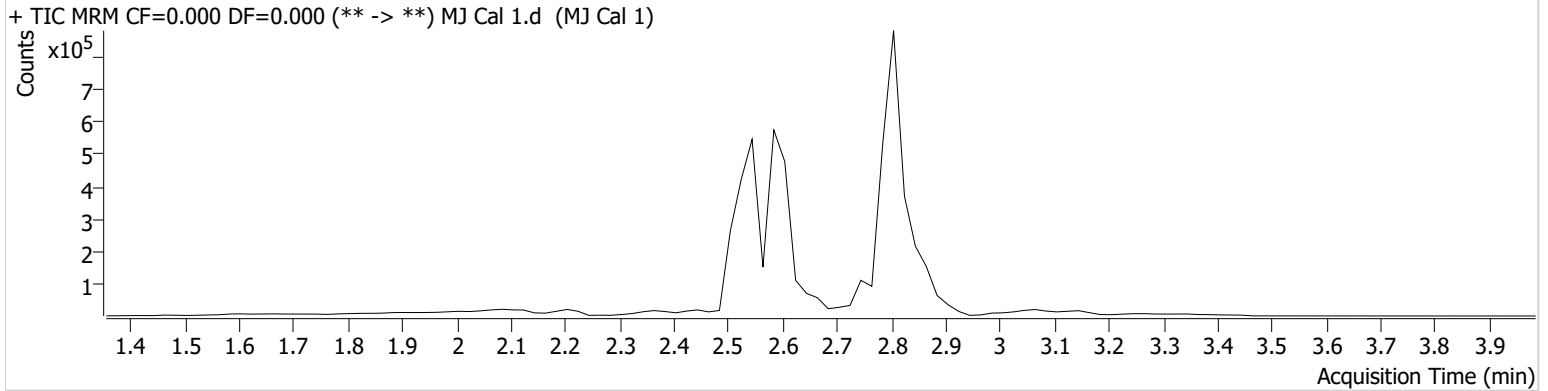


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-A1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 3:25:03 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	2761	235678	1.5362 ng/ml	Low
THC-COOH	2.585	77772	1129066	6.2946 ng/ml	
THC-OH	2.534	9533	1599210	1.6130 ng/ml	Low

AM

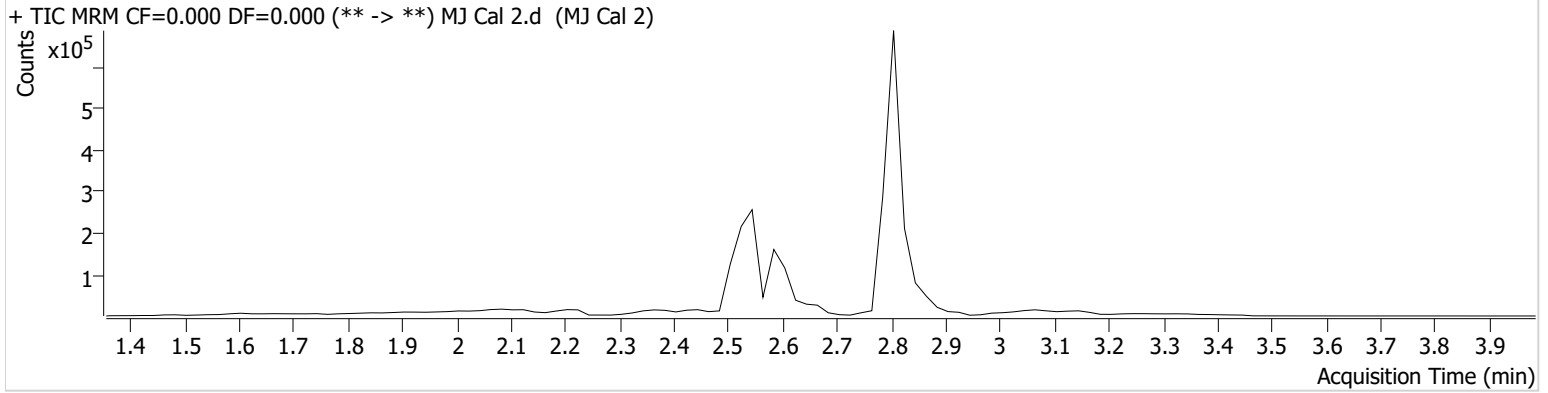


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-B1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 3:31:45 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2690	40434	9.2698 ng/ml
THC-COOH	2.625	26953	297991	8.3884 ng/ml

AM



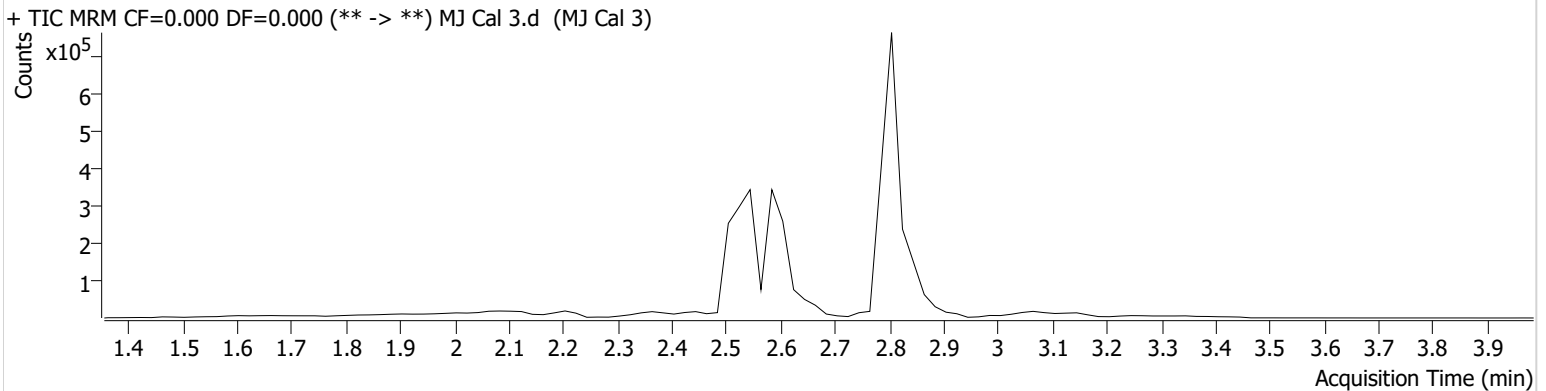
AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument Instrument 1
Type Cal
Acq. Method AM 26 THCS.m
Sample Position P5-C1
Injection Volume 10
Acq. Date-Time 4/30/2021 3:38:18 PM
Sample Info.

Data File MJ Cal 3.d
Sample MJ Cal 3
Operator Amber Gerheart
Comment

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	4507	122958	5.0541 ng/ml
THC-COOH	2.585	102417	529797	18.3741 ng/ml
THC-OH	2.554	9234	1066452	3.4896 ng/ml

AM



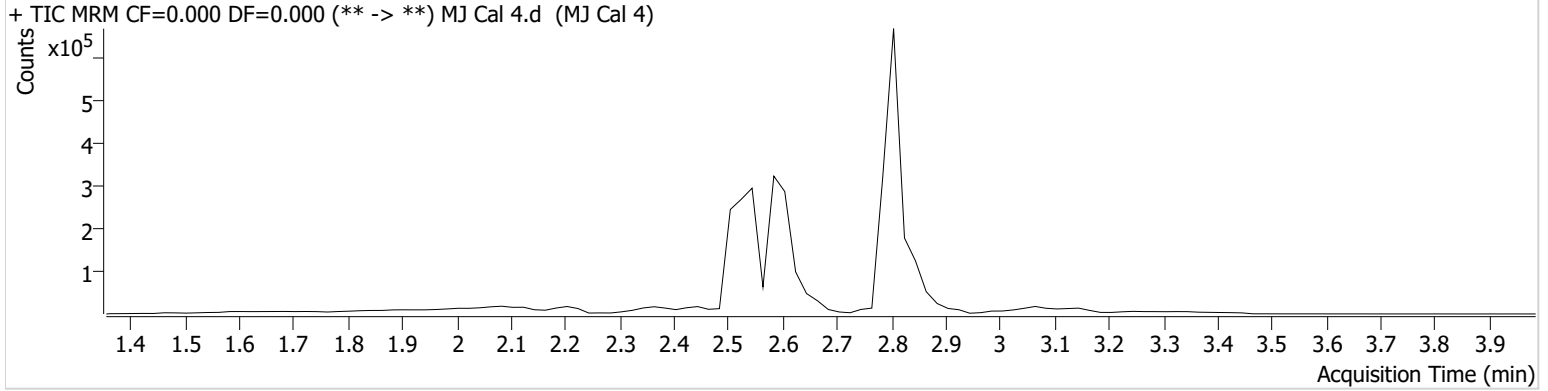
AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument Instrument 1
Type Cal
Acq. Method AM 26 THCS.m
Sample Position P5-D1
Injection Volume 10
Acq. Date-Time 4/30/2021 3:44:49 PM
Sample Info.

Data File MJ Cal 4.d
Sample MJ Cal 4
Operator Amber Gerheart
Comment

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	7133	99267	10.0203 ng/ml
THC-COOH	2.585	202433	391660	49.7832 ng/ml
THC-OH	2.554	12652	906180	7.1783 ng/ml

AM

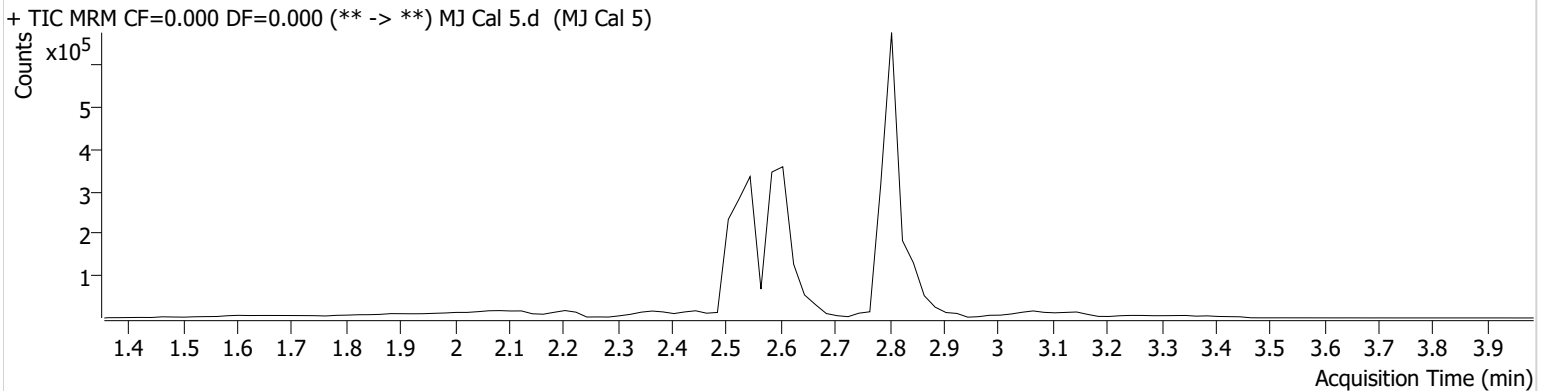


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-E1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 3:51:20 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	16679	94267	24.8435 ng/ml
THC-COOH	2.585	279575	359832	75.0334 ng/ml
THC-OH	2.554	29537	810040	22.8305 ng/ml

AM



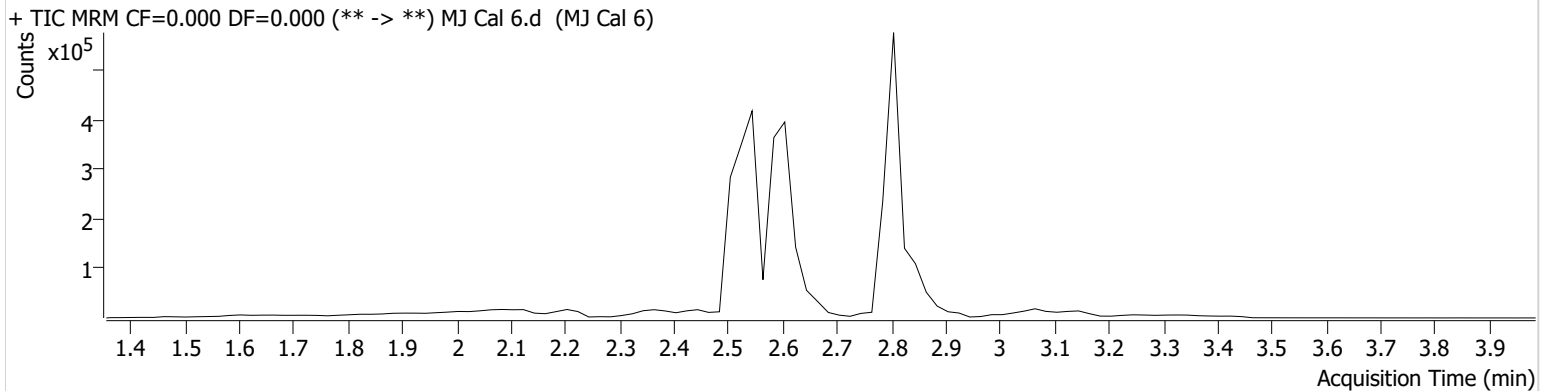
AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument Instrument 1
Type Cal
Acq. Method AM 26 THCS.m
Sample Position P5-F1
Injection Volume 10
Acq. Date-Time 4/30/2021 3:57:51 PM
Sample Info.

Data File MJ Cal 6.d
Sample MJ Cal 6
Operator Amber Gerheart
Comment

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	27404	78295	49.2585 ng/ml
THC-COOH	2.585	326650	327325	96.4857 ng/ml
THC-OH	2.554	60096	797025	49.9154 ng/ml

AM

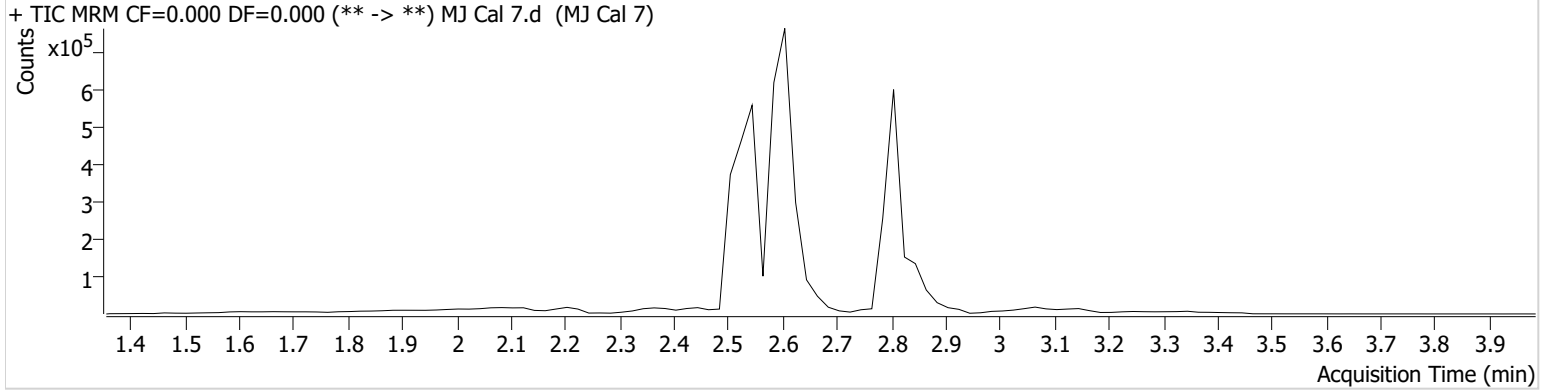


AM #26 Cannabinoids Screen Results

Batch results G:\TOX\Pocatello\Falco\2021\AM 25-26\043021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 5/3/2021 8:40:19 AM

Instrument	Instrument 1	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-G1	Comment	
Injection Volume	10		
Acq. Date-Time	4/30/2021 4:04:22 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	56465	78914	100.8236 ng/ml
THC-COOH	2.585	801587	303932	255.6405 ng/ml
THC-OH	2.514	118100	757106	105.9732 ng/ml