

REVIEWED





By Sarah Collins at 4:44 pm, Aug 26, 2021

8/19/2021

Worklist: 5188

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-3441	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3504	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3519	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-3588	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2476	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2488	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2522	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2552	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2642	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2643	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2644	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2645	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2646	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2647	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2648	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2669	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2673	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2678	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2698	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2705	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2708	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	


Worklist: 5188

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-2710	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2711	1	BCK	AM 25 Blood Multi-Drug Screen by LC-QQQ	
P2021-2718	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-2720	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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8/19/2021

Worklist: 5189

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-2476	2	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: 8/20/2021

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:

Checklist for both worklist 5188 and 5189

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	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	P2021-2476-2	P2021-2646-1	P2021-2708-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	P2021-2488-1	P2021-2647-1	P2021-2710-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Blood Negative	P2021-2522-3	P2021-2648-1	P2021-2711-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	M2021-3441-1	P2021-2552-1	P2021-2669-1	P2021-2718-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	M2021-3504-2	P2021-2642-1	P2021-2673-1	P2021-2720-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	M2021-3519-3	P2021-2643-1	P2021-2678-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	M2021-3588-4	P2021-2644-1	P2021-2698-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	P2021-2476-1	P2021-2645-1	P2021-2705-1	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

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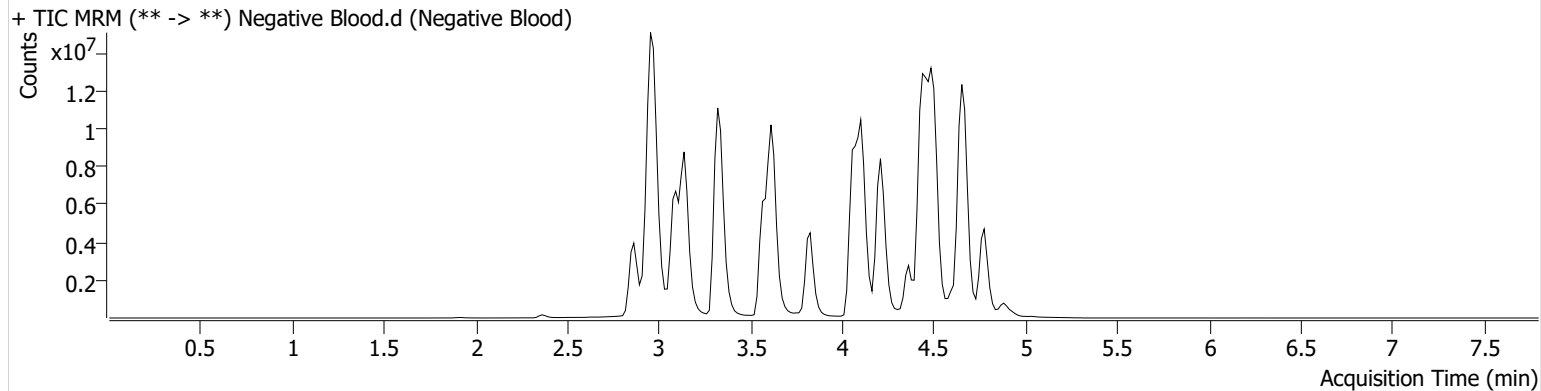


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 8/23/2021 1:51:56 PM

Instrument	Falco (069901)	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	8/21/2021 1:55:09 AM		
Sample Info.			

Sample Chromatogram



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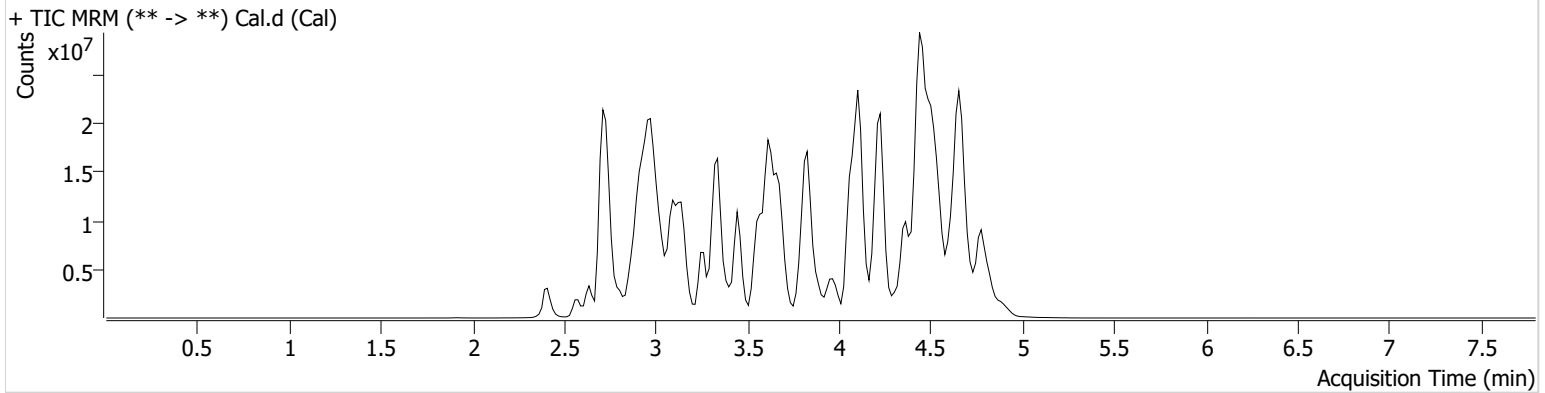


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 25.batch.bin
Calibration Last Update 8/23/2021 1:51:56 PM

Instrument	Falco (069901)	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	8/21/2021 1:46:33 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.999	134492	3252.47	62342.25	4067330	10.0000
7-aminoclonazepam	3.584	2409368	2105365.15	614.61	16761968	10.0000
7-aminoflunitrazepam	3.783	7408182	5750420.39	187942.21	16761968	10.0000
Acetyl Fentanyl	4.010	329913	159.34	179320.14	40828514	10.0000
Acetyl Norfentanyl	2.916	716727	264.42	160.75	40828514	10.0000
a-hydroxyalprazolam	4.515	854177	965.20	181338.57	16761968	10.0000
alpha-hydroxymidazolam	4.606	3009408	348.76	697.62	16761968	10.0000
Alpha-PHP	3.895	4324320	18028.90	4339.38	40828514	10.0000
alpha-PVP	3.621	5994305	418.11	220.92	13733551	10.0000
Alprazolam	4.626	6994806	1805.71	715.33	41202843	10.0000
Amitriptyline	4.492	1629050	227.02	617.70	6895520	10.0000
Amphetamine	2.905	5768261	2793.50	1994.20	13733551	10.0000
Benzoylcegonine	3.385	680724	484601.51	137.88	1211011	10.0000
Brompheniramine	4.072	81524	44807.61	196.42	38797598	10.0000
Buprenorphine	4.908	843335	5785.05	120361.27	3059120	10.0000
Bupropion	3.850	5089486	815.56	680.33	18548668	10.0000
Carbamazepine	4.234	24365515	∞	519.01	1512184	10.0000
Carisoprodol	4.217	3428485	1019.62	138.67	19634184	10.0000
Chlordiazepoxide	4.735	2662358	174.03	3693.59	41202843	10.0000
Chlorpheniramine	3.984	6130282	1675.95	28.46	38797598	10.0000
Citalopram	4.101	2988841	349.80	585761.75	38797598	10.0000
Clomipramine	4.701	3416395	17628.94	12000.98	38797598	10.0000
Clonazepam	4.440	2955389	760.76	297480.17	41202843	10.0000
Clonazolam	4.375	4462267	2456922.09	876819.68	41202843	10.0000
Cocaethylene	3.826	6767745	3020526.96	5865.18	35484247	10.0000
Cocaine	3.629	8330930	9987919.85	781.90	35484247	10.0000
Codeine	2.912	845721	4605.58	268.49	23028807	10.0000
Cyclobenzaprine	4.400	2162668	284.34	171.98	6895520	10.0000
Desipramine	4.416	3697850	502781.49	885.25	6895520	10.0000
Dextromethorphan	4.124	1491460	254.18	341.28	8409444	10.0000
Dextrorphan	3.403	3559211	831587.31	1173405.00	8409444	10.0000
Diazepam	4.843	1826755	1305.84	1739.81	41202843	10.0000
Dihydrocodeine	2.804	2279515	915.78	6769.89	23028807	10.0000
Diphenhydramine	4.064	7134753	5533015.18	2297.74	38797598	10.0000

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AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.214	1573834	166.83	44.53	24930218	10.0000
Doxylamine	3.678	14456580	8567.85	377.13	8409444	10.0000
EDDP	4.107	1739397	247.26	210.92	4146158	10.0000
Estazolam	4.535	16479929	2555.92	4107.92	41202843	10.0000
Etizolam	4.636	1044618	716160.23	8285340.95	41202843	10.0000
Fentanyl	4.238	265363	115.62	71534.54	17206063	10.0000
Flualprazolam	4.484	2576293	1295767.94	1561708.97	41202843	10.0000
Flunitrazepam	4.564	7760228	3009.28	12481.45	41202843	10.0000
Fluoxetine	4.350	2590088	756.04	57.92	6805263	10.0000
Flurazepam	4.298	3305483	2306538.72	600222.52	41202843	10.0000
Hydrocodone	3.124	3258833	1710.60	1073.91	23028807	10.0000
Hydromorphone	2.579	3313205	69324.22	19853.69	479672	10.0000
Imipramine	4.445	4054096	1294.51	399.75	6895520	10.0000
Ketamine	3.697	8305020	21971.54	261.13	31884937	10.0000
Lamotrigine	3.618	606890	19857.70	76906.61	38797598	10.0000
Levamisole	3.039	5702118	907.80	219.89	35484247	10.0000
Levetiracetam	2.644	3292193	853.82	2541.87	38797598	10.0000
Lorazepam	4.439	1262379	918.89	43.29	41202843	10.0000
Maprotiline	4.415	389213	27.68	83.89	6895520	10.0000
MDA	3.025	3826993	377.80	305.27	30578240	10.0000
MDEA	3.253	5617312	431.75	239.28	30578240	10.0000
MDMA	3.101	7347320	712.27	384.50	30578240	10.0000
Meperidine	3.649	2909694	337.72	8943.51	8409444	10.0000
Meprobamate	3.652	2127843	1521337.70	146.03	19634184	10.0000
Methadone	4.426	4642708	430.76	144.75	4146158	10.0000
Methamphetamine	3.011	8145289	2876.60	423.55	30578240	10.0000
Methocarbamol	3.573	933890	278.25	186.79	4146158	10.0000
Methylphenidate	3.543	12657936	549.55	871.62	26282495	10.0000
Metoprolol	3.463	1091978	663.52	257.03	8409444	10.0000
Midazolam	4.775	1006499	184999.53	∞	41202843	10.0000
Mirtazapine	4.202	2919404	1235.88	6039.32	8409444	10.0000
Mitragynine	4.313	402405	102309.65	648915.92	8409444	10.0000
Morphine	2.397	645074	∞	680.84	479672	10.0000
Norbuprenorphine	3.868	75669	102570.79	57530.64	3059120	10.0000
Nordiazepam	4.692	3782611	6820015.44	533.39	41202843	10.0000
Norfentanyl	3.344	12281466	427.98	156.36	40828514	10.0000
Norhydrocodone	2.959	49611	155.47	256.30	479672	10.0000
Norketamine	3.805	1574948	311.53	4466.69	31884937	10.0000
Normeperidine	3.621	1769535	500.91	237.91	38797598	10.0000
Noroxycodone	2.911	3045383	163.58	349.50	31884937	10.0000
Nortriptyline	4.463	1269205	510.68	113.45	6895520	10.0000
O-desmethyl-tramadol	2.930	17381966	1364.31	1420.87	38797598	10.0000
Olanzapine	3.934	1443647	1174716.66	175540.24	1512184	10.0000
Oxazepam	4.505	6871914	2357.60	335.07	29725922	10.0000
Oxycodone	2.970	7082596	1193.92	488.27	31884937	10.0000
Oxymorphone	2.408	3099596	877.44	24250.43	479672	10.0000
Paroxetine	4.377	351391	111905.29	1137.58	6805263	10.0000
Phenazepam	4.636	5199057	4493.50	2570192.37	41202843	10.0000
Phencyclidine	3.957	4521892	25115.12	928.07	8409444	10.0000
Phentermine	3.164	2267268	283.13	15.69	26282495	10.0000
Phenytoin	4.126	2453637	1168.28	1311.61	1512184	10.0000
Promethazine	4.429	6005713	438307.69	1445.01	38797598	10.0000
Pseudoephedrine	2.720	62547021	897.54	1206.44	30578240	10.0000
Quetiapine	4.635	3489884	2244791.16	2264655.61	53575462	10.0000
Sertraline	4.611	1235434	1903.67	1406.00	6805263	10.0000
Sufentanil	4.634	176175	182551.78	355.26	40828514	10.0000
Tapentadol	3.453	8533906	458.18	1743.08	31884937	10.0000
Temazepam	4.673	11912809	4471.57	536.67	41202843	10.0000
Tramadol	3.449	16739138	129679.19	75.49	38797598	10.0000
Trazodone	4.803	5093684	786.91	1214.95	24930218	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.830	9882945	1809.30	304.99	6805263	10.0000
Zaleplon	4.351	6313717	9100146.29	3778.86	53575462	10.0000
Zolpidem	4.457	19553237	13429331.33	46741.96	53575462	10.0000
Zopiclone	4.359	1577040	1007429.84	558966.69	8611791	10.0000

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

Extraction Date: 8/20/2021

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-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, 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:

Checklist for both worklist 5188 and 5189

Instrument stopped due to high pressure twice during analysis. Issue was fixed and the analysis resumed normally.

Plate Map for the Analytical Plate

	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	P2021-2522-3	P2021-2648-1	P2021-2718-1	IS + QC_1
B	IS + Cal. 2	M2021-3441-1	P2021-2552-1	P2021-2669-1	P2021-2720-1	IS + Cal. 7
C	IS + Cal. 3	M2021-3504-2	P2021-2642-1	P2021-2673-1	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	M2021-3519-3	P2021-2643-1	P2021-2678-1	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	M2021-3588-4	P2021-2644-1	P2021-2698-1	IS + Sample	IS + Cal. 4
F	IS + Cal. 6	P2021-2476-1	P2021-2645-1	P2021-2705-1	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	P2021-2476-2	P2021-2646-1	P2021-2708-1	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2021-2488-1	P2021-2647-1	P2021-2710-1	IS + Sample	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

Plate Map for the SLE and Sample Plate

	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	P2021-2522-3	P2021-2648-1	P2021-2718-1	IS + QC_1
B	IS + Cal. 2	M2021-3441-1	P2021-2552-1	P2021-2669-1	P2021-2720-1	IS + Cal. 7
C	IS + Cal. 3	M2021-3504-2	P2021-2642-1	P2021-2673-1	P2021-2646-1	IS + Cal. 6
D	IS + Cal. 4	M2021-3519-3	P2021-2643-1	P2021-2678-1	P2021-2698-1	IS + Cal. 5
E	IS + Cal. 5	M2021-3588-4	P2021-2644-1	P2021-2698-1 Moved due to clot	P2021-2705-1	IS + Cal. 4
F	IS + Cal. 6	P2021-2476-1	P2021-2645-1	P2021-2705-1 Moved due to clot	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	P2021-2476-2	P2021-2646-1 Moved due to clot	P2021-2708-1	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2021-2488-1	P2021-2647-1	P2021-2710-1	IS + Sample	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

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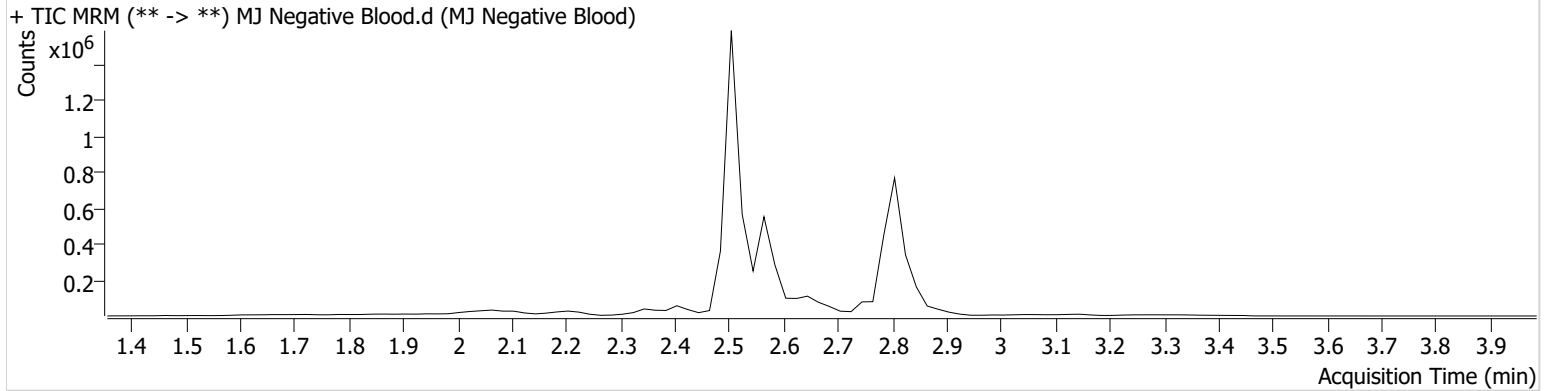


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-A2	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 3:23:01 PM		
Sample Info.			

Sample Chromatogram



AG

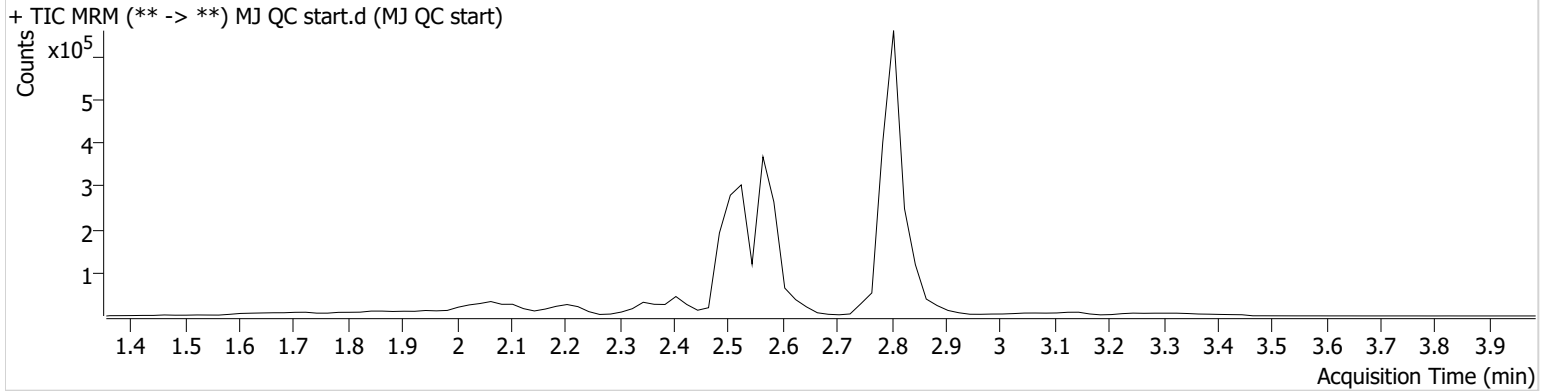


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-H1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 3:09:53 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	4604	122287	4.7978 ng/ml
THC-COOH	2.587	111200	460398	17.5074 ng/ml
THC-OH	2.534	10018	839387	4.1503 ng/ml

AG

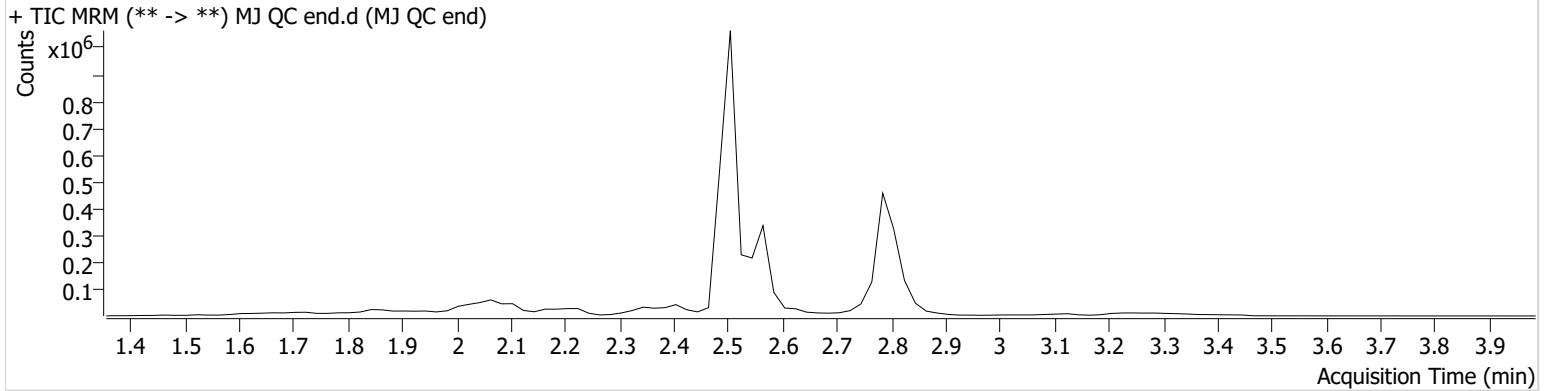


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 PM

Instrument	Falco (069901)	Data File	MJ QC end.d
Type	Sample	Sample	MJ QC end
Acq. Method	AM 26 THCS.m	Operator	Amber Gerheart
Sample Position	P5-H1	Comment	
Injection Volume	10		
Acq. Date-Time	8/21/2021 12:43:53 AM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	4165	96389	5.5019 ng/ml
THC-COOH	2.587	35578	497259	6.1972 ng/ml
THC-OH	2.514	16930	2022729	2.0340 ng/ml Low

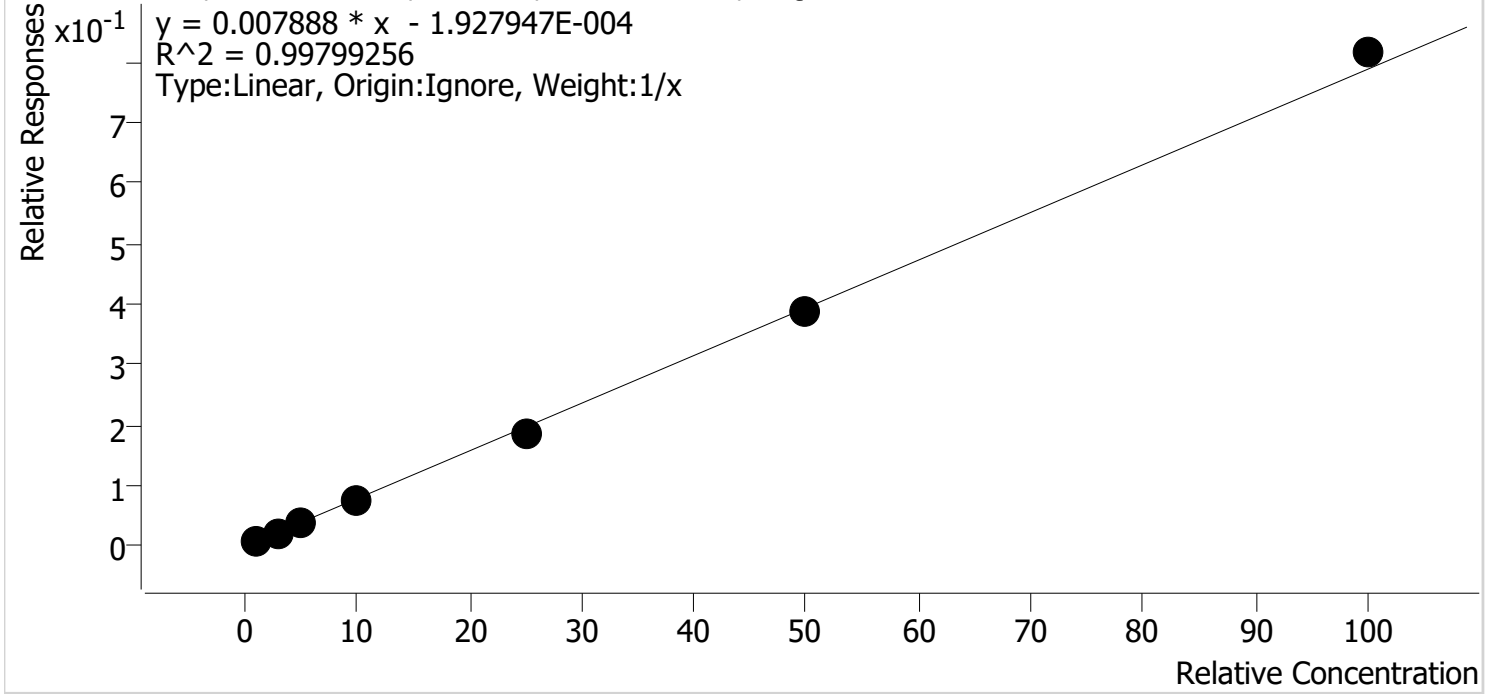
AKH



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 8/24/2021 12:59 PM
Analyst Name ISP\lagerheart
Analyte THC **Internal Standard** THC-D3

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



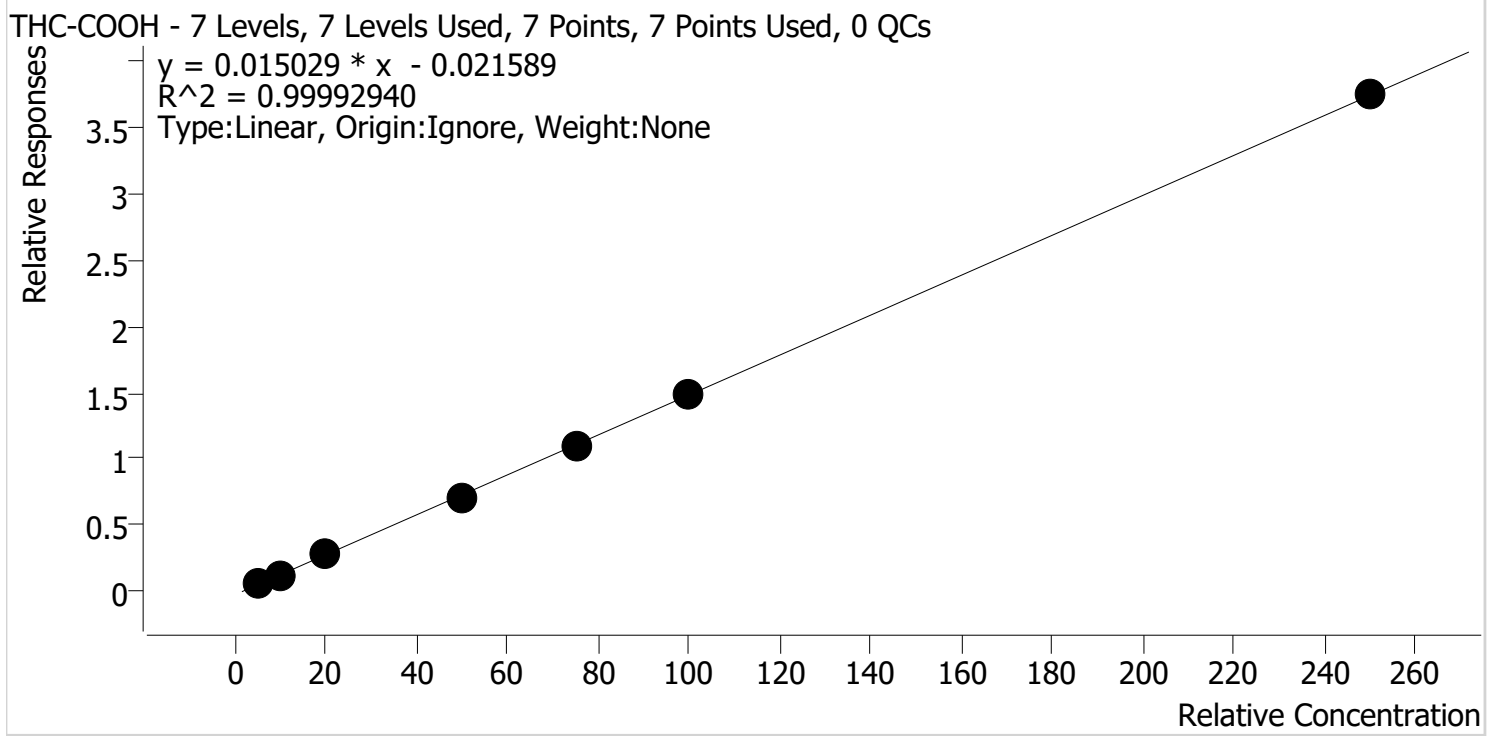
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.2	118.1
MJ Cal 2	2	✓	3.0	3.0	98.6
MJ Cal 3	3	✓	5.0	4.8	95.7
MJ Cal 4	4	✓	10.0	9.2	92.4
MJ Cal 5	5	✓	25.0	23.5	94.1
MJ Cal 6	6	✓	50.0	48.9	97.7
MJ Cal 7	7	✓	100.0	103.4	103.4

AS



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 8/24/2021 12:59 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	5.9	118.8
MJ Cal 2	2	✓	10.0	10.1	101.1
MJ Cal 3	3	✓	20.0	20.4	102.2
MJ Cal 4	4	✓	50.0	48.7	97.4
MJ Cal 5	5	✓	75.0	74.7	99.6
MJ Cal 6	6	✓	100.0	99.7	99.7
MJ Cal 7	7	✓	250.0	250.4	100.2

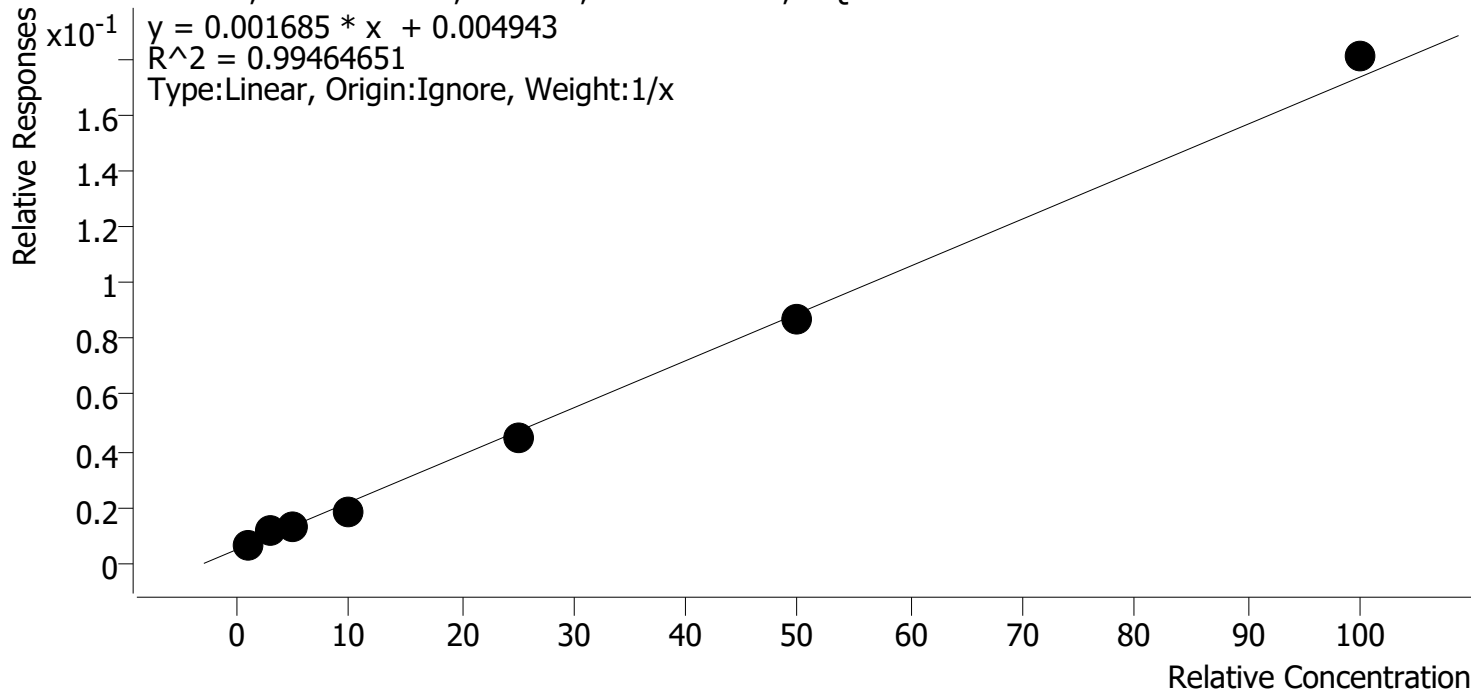
AKH



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results C:\Users\lagerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Last Cal. Update 8/24/2021 12:59 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	1.0	102.2
MJ Cal 2	2	✓	3.0	3.7	122.8
MJ Cal 3	3	✓	5.0	5.0	99.9
MJ Cal 4	4	✓	10.0	8.0	79.6
MJ Cal 5	5	✓	25.0	23.6	94.2
MJ Cal 6	6	✓	50.0	48.5	96.9
MJ Cal 7	7	✓	100.0	104.3	104.3

AG

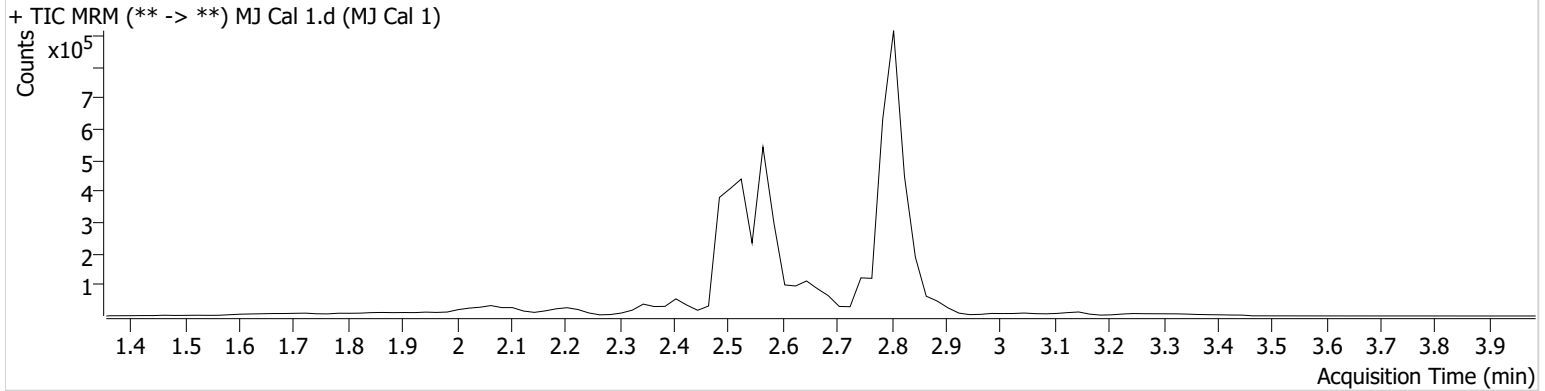


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-A1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:23:51 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	2059	225718	1.1809 ng/ml	Low
THC-COOH	2.587	50731	749795	5.9384 ng/ml	
THC-OH	2.554	9657	1449030	1.0218 ng/ml	Low

AG

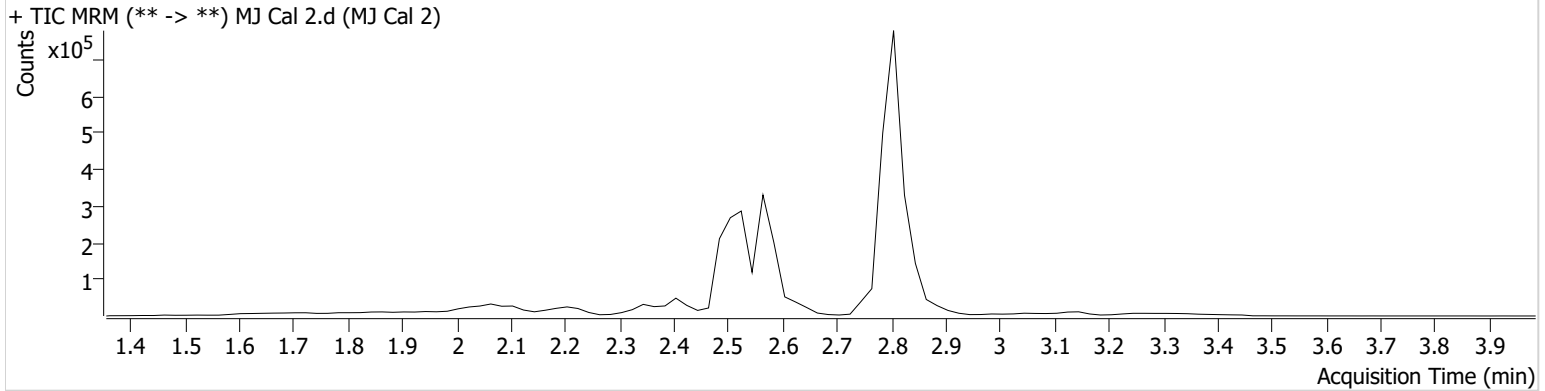


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-B1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:30:34 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	3665	158415	2.9577 ng/ml	Low
THC-COOH	2.587	61601	472612	10.1092 ng/ml	
THC-OH	2.514	9635	863994	3.6852 ng/ml	

AG

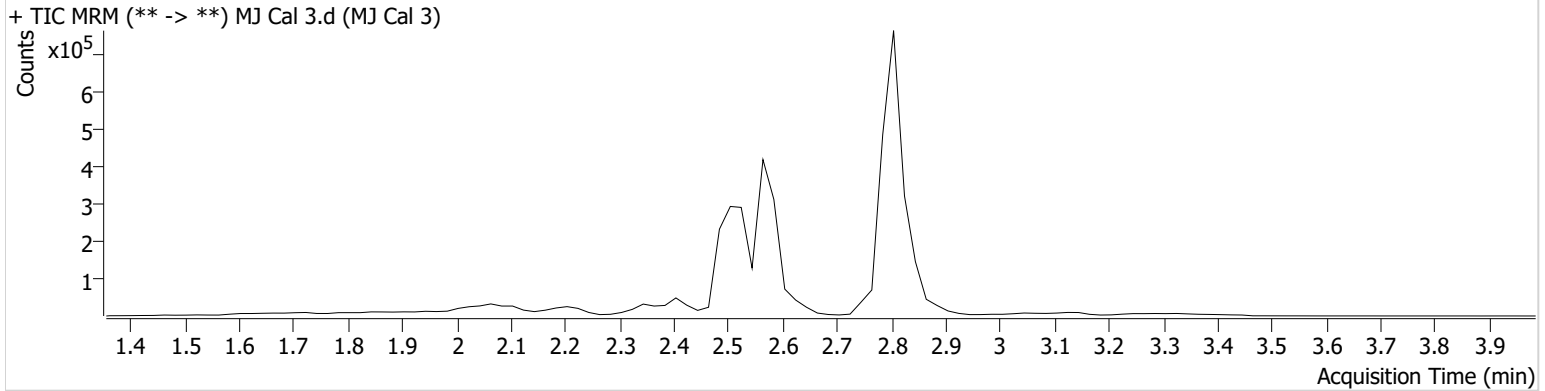


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-C1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:37:07 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	5937	158177	4.7831 ng/ml
THC-COOH	2.587	147283	515502	20.4469 ng/ml
THC-OH	2.494	11867	888348	4.9951 ng/ml

AG

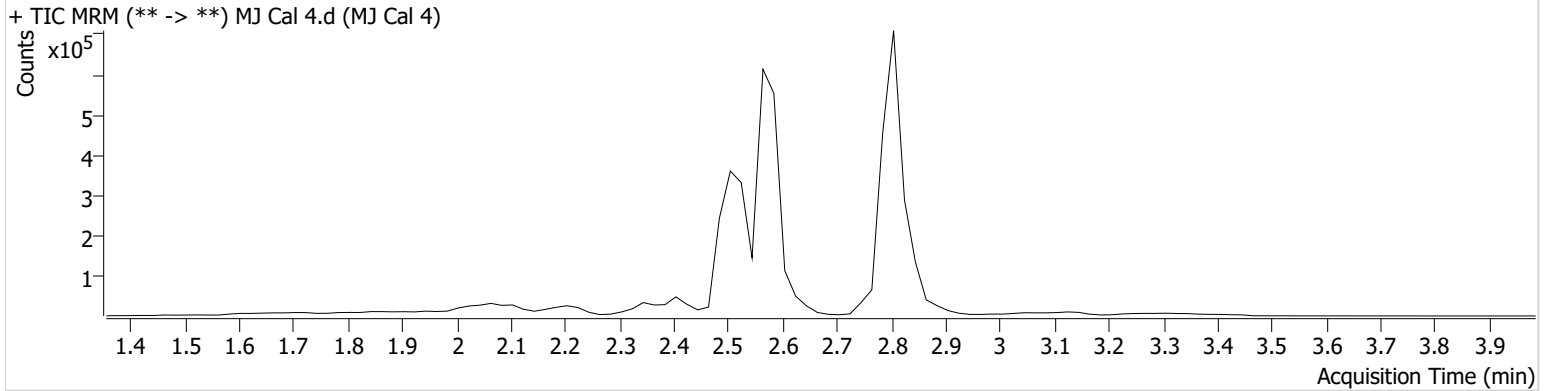


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-D1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:43:40 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	11078	152410	9.2387 ng/ml
THC-COOH	2.587	367474	517140	48.7177 ng/ml
THC-OH	2.534	16947	923380	7.9601 ng/ml

AG

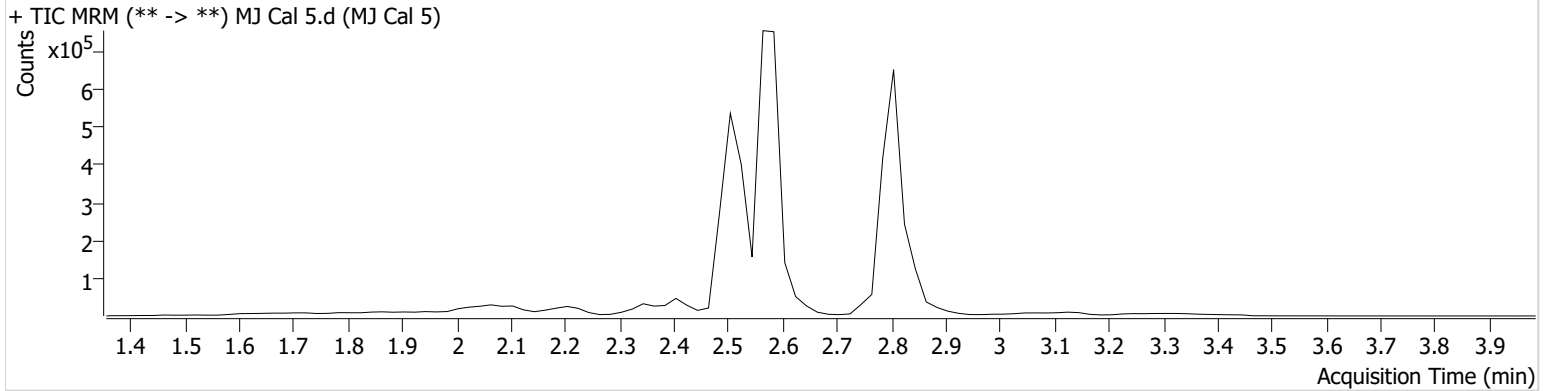


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-E1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:50:13 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	23303	125736	23.5199 ng/ml
THC-COOH	2.587	549146	498972	74.6652 ng/ml
THC-OH	2.534	40587	909428	23.5569 ng/ml

AG

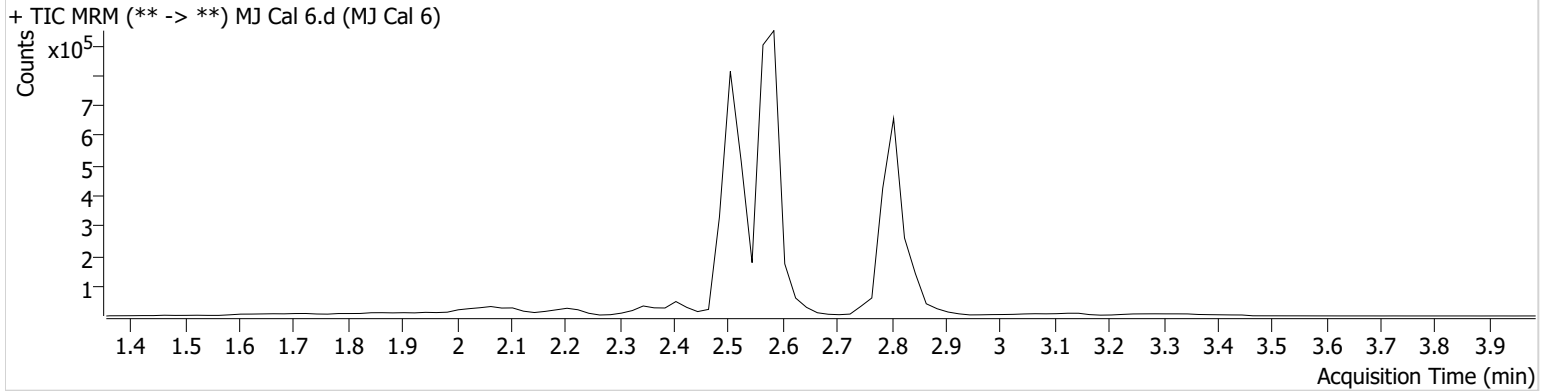


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-F1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 2:56:46 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	47008	121994	48.8743 ng/ml
THC-COOH	2.587	718134	486239	99.7076 ng/ml
THC-OH	2.534	77573	895800	48.4681 ng/ml

AG

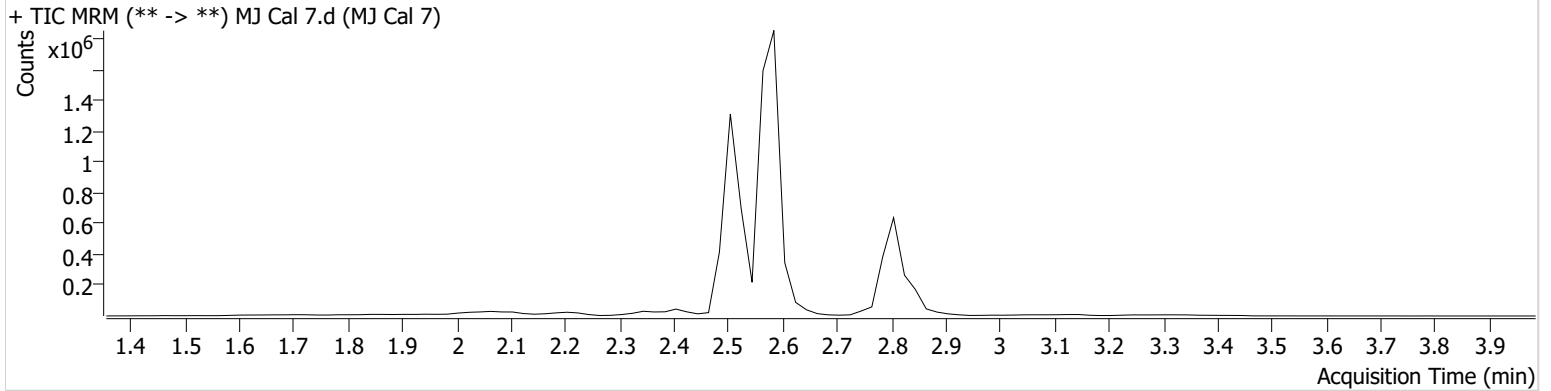


AM #26 Cannabinoids Screen Results

Batch results C:\Users\agerheart\Desktop\082021 AM 25 26 AG\QuantResults\AM 26.batch.bin
Calibration Last Update 8/24/2021 12:59:16 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	P5-G1	Comment	
Injection Volume	10		
Acq. Date-Time	8/20/2021 3:03:20 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	94369	115677	103.4454 ng/ml
THC-COOH	2.587	1584136	423352	250.4149 ng/ml
THC-OH	2.534	149415	826972	104.3128 ng/ml