REVIEWED
By Sarah Collins at 7:11 am, Aug 04, 2021

7/29/2021

Worklist: 5132

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2021-2949	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-2994	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-3036	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-3135	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-3249	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2340	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2451	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2457	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2458	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2459	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2470	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2471	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2472	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2473	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2474	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2475	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2478	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2479	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2484	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2487	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2523	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 5132

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2021-2527	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2528	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2529	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-2543	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 7/29/2021
Plate lot#: 210611
Mobile phase A: 10mM Amm Form
Instant Buffer I 20L20724
Blank Blood Lot: Lampire ~~20L20723~~
LCMS-QQQ ID: 069901 8/3/2021

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:

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	P2021-2340-2	P2021-2473-1	P2021-2527-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
B	IS + Cal. 1	P2021-2451-1	P2021-2474-1	P2021-2528-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
C	Blood Negative	P2021-2457-1	P2021-2475-1	P2021-2529-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
D	M2021-2949-1	P2021-2458-1	P2021-2478-1	P2021-2543-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
E	M2021-2994-1	P2021-2459-1	P2021-2479-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
F	M2021-3036-1	P2021-2470-1	P2021-2484-3	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample
G	M2021-3135-1	P2021-2471-1	P2021-2487-1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Cal. 1
H	M2021-3249-2	P2021-2472-1	P2021-2523-1	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

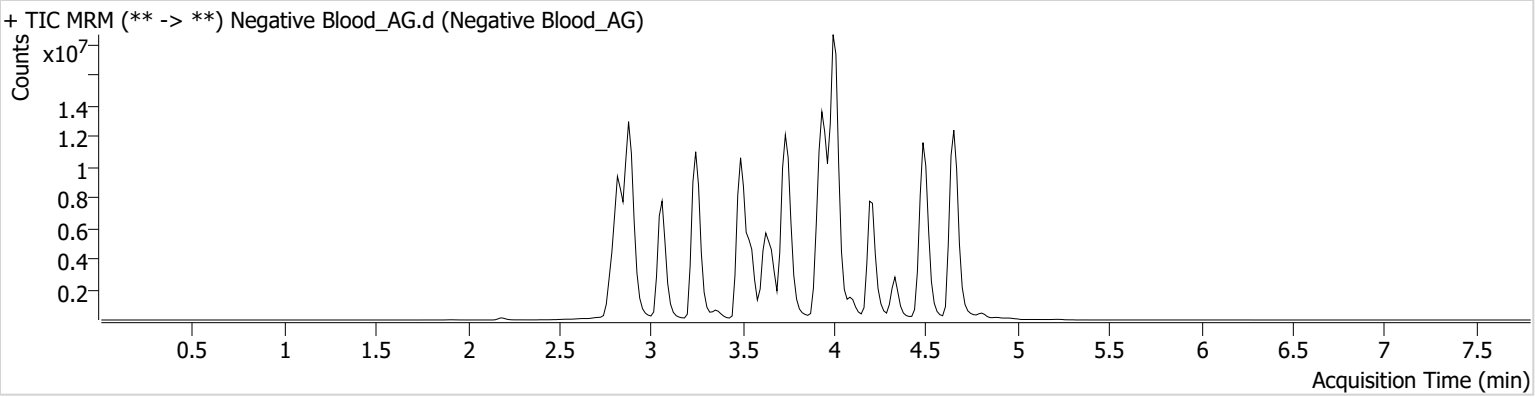
210611

AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\072821 AM 27 28 CS\QuantResults\AM 25 Amber.batch.bin
Calibration Last Update 8/2/2021 2:35:11 PM

Instrument	Falco (069901)	**Data File**	Negative Blood_AG.d
Type	Sample	**Sample**	Negative Blood_AG
Acq. Method	AM 25 MDS.m	**Operator**	Amber Gerheart
Sample Position	P6-C1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/29/2021 10:13:38 PM		
Sample Info.			

Sample Chromatogram

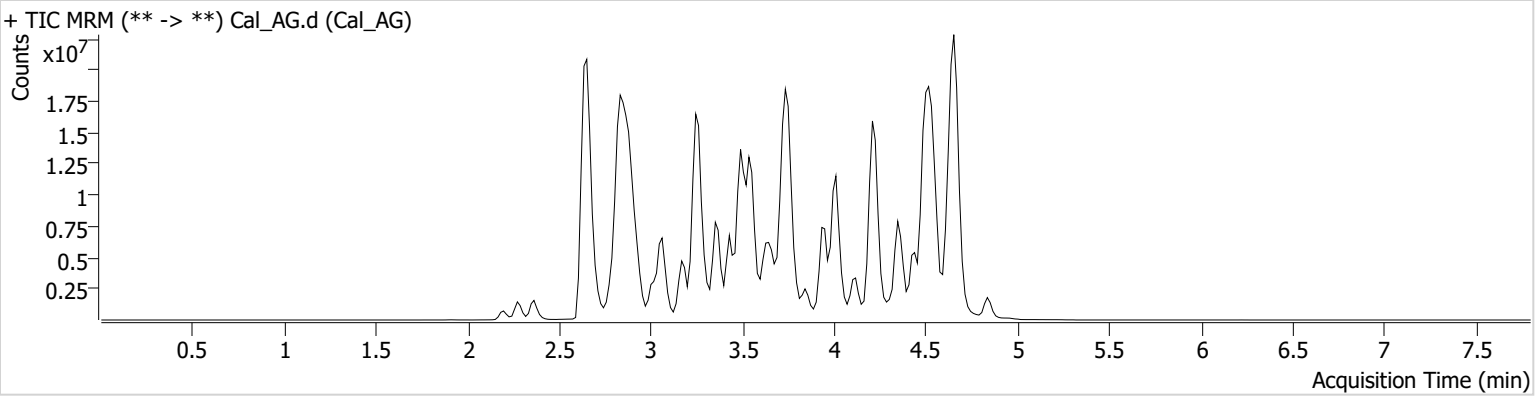


AM #25 Multi-Drug Screen Results

Batch results C:\Users\agerheart\Desktop\072821 AM 27 28 CS\QuantResults\AM 25 Amber.batch.bin
Calibration Last Update 8/2/2021 2:35:11 PM

Instrument	Falco (069901)	**Data File**	Cal_AG.d
Type	Cal	**Sample**	Cal_AG
Acq. Method	AM 25 MDS.m	**Operator**	Amber Gerheart
Sample Position	P6-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	7/29/2021 10:05:04 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.801	92167	38909.68	266.80	3164044	10.0000
7-aminoclonazepam	3.554	1860045	29215.31	632.13	11675851	10.0000
7-aminoflunitrazepam	3.768	4108195	466.54	24754.53	11675851	10.0000
Acetyl Fentanyl	3.687	77191	12.57	36327.11	33017645	10.0000
Acetyl Norfentanyl	2.840	535148	655.05	288728.42	33017645	10.0000
a-hydroxyalprazolam	4.515	917816	133.45	557.44	11675851	10.0000
alpha-hydroxymidazolam	4.529	2595563	747.82	1684.11	11675851	10.0000
Alpha-PHP	3.711	2188858	76260.15	9491.57	33017645	10.0000
alpha-PVP	3.437	4774323	8381.69	459.81	6092755	10.0000
Alprazolam	4.610	6961843	643.58	600.37	40248476	10.0000
Amitriptyline	4.339	130138	11.44	23.20	555542	10.0000
Amphetamine	2.829	2347769	717.86	717.69	6092755	10.0000
Benzoylecgonine	3.369	684191	1425.95	89.20	1158181	10.0000
Brompheniramine	3.949	19657	69.56	107.89	17299484	10.0000
Buprenorphine	4.021	194686	72183.45	21763.58	757198	10.0000
Bupropion	3.635	2193189	383.96	454.54	8838432	10.0000
Carbamazepine	4.234	25002225	5439.15	∞	2261072	10.0000
Carisoprodol	4.217	3897713	1299.21	177.85	22241086	10.0000
Chlordiazepoxide	4.627	1794182	330.89	795.07	40248476	10.0000
Chlorpheniramine	3.861	1808977	171.56	3.18 **Low**	17299484	10.0000
Citalopram	3.979	914655	234.02	183.61	17299484	10.0000
Clomipramine	4.517	224349	145042.22	282.15	17299484	10.0000
Clonazepam	4.440	5716123	1518.76	786.93	40248476	10.0000
Clonazolam	4.360	5517262	3114490.41	1667143.69	40248476	10.0000
Cocaethylene	3.703	3943074	6581.11	1103772.91	29207934	10.0000
Cocaine	3.491	6870269	3365680.62	1616.15	29207934	10.0000
Codeine	2.699	681606	1606579.50	1785.29	15721208	10.0000
Cyclobenzaprine	4.262	185623	128.40	6.02	555542	10.0000
Desipramine	4.294	346825	901.75	32.00	555542	10.0000
Dextromethorphan	3.985	388201	148.13	258.52	2161598	10.0000
Dextrorphan	3.311	2385366	4406.81	1291.94	2161598	10.0000
Diazepam	4.843	2638743	1174.55	1991.30	40248476	10.0000
Dihydrocodeine	2.667	1720153	719.56	622.73	15721208	10.0000
Diphenhydramine	3.955	2367189	590540.11	45944.76	17299484	10.0000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.061	186834	29.71	14.36	4835067	10.0000
Doxylamine	3.540	8944288	18131598.61	6818.84	2161598	10.0000
EDDP	4.014	941674	1051.48	207498.97	2185707	10.0000
Estazolam	4.535	18745517	2120.73	2626.06	40248476	10.0000
Etizolam	4.636	996155	890768.21	2462102.03	40248476	10.0000
Fentanyl	3.916	32475	8.61	6939.07	2226418	10.0000
Flualprazolam	4.484	2863499	2233347.97	1502349.01	40248476	10.0000
Flunitrazepam	4.564	9360641	1050.75	783553.77	40248476	10.0000
Fluoxetine	4.257	192604	166.74	76.58	464120	10.0000
Flurazepam	4.037	1114048	980.42	108497.77	40248476	10.0000
Hydrocodone	2.882	2342706	1292.60	844.55	15721208	10.0000
Hydromorphone	2.367	2374824	25355242.80	8184.23	354472	10.0000
Imipramine	4.306	488288	361693.07	48.72	555542	10.0000
Ketamine	3.282	4926210	87339.30	114.13	23996579	10.0000
Lamotrigine	3.419	554557	1149.55	8882.51	17299484	10.0000
Levamisole	2.856	3698046	34808.69	422.02	29207934	10.0000
Levetiracetam	2.644	2489185	591.84	1485.09	17299484	10.0000
Lorazepam	4.424	1904000	820.65	∞	40248476	10.0000
Maprotiline	4.339	101450	12.98	27105.71	555542	10.0000
MDA	2.933	2599766	571.93	55.31	17901681	10.0000
MDEA	3.161	3862952	580.61	517.10	17901681	10.0000
MDMA	3.024	5133270	919.17	336.58	17901681	10.0000
Meperidine	3.511	1669203	378.85	896.45	2161598	10.0000
Meprobamate	3.652	2288779	765.01	257.22	22241086	10.0000
Methadone	4.319	966012	120.42	179.91	2185707	10.0000
Methamphetamine	2.920	4099326	986.65	28110.56	17901681	10.0000
Methocarbamol	3.573	1589284	1951.03	358.34	2185707	10.0000
Methylphenidate	3.436	8480520	1418.61	612.08	16489424	10.0000
Metoprolol	3.371	747264	384698.46	1834311.79	2161598	10.0000
Midazolam	4.469	609693	275476.67	4452.46	40248476	10.0000
Mirtazapine	3.601	899649	202699.55	663.00	2161598	10.0000
Mitragynine	4.052	68138	30395.28	123008.07	2161598	10.0000
Morphine	2.201	498452	9356.73	910616.43	354472	10.0000
Norbuprenorphine	3.746	17930	10437.78	27538.35	757198	10.0000
Nordiazepam	4.692	3924199	1839.22	313.17	40248476	10.0000
Norfentanyl	3.267	8814130	6600041.66	493.12	33017645	10.0000
Norhydrocodone	2.868	36467	61.77	42.44	354472	10.0000
Norketamine	3.252	900335	399.02	6432.66	23996579	10.0000
Normeperidine	3.528	1413842	981.30	380.14	17299484	10.0000
Noroxycodone	2.820	1737381	421.78	395.06	23996579	10.0000
Nortriptyline	4.340	94940	35200.30	11.77	555542	10.0000
O-desmethyl-tramadol	2.853	13206425	1185.64	1972.14	17299484	10.0000
Olanzapine	3.276	172675	75213.73	3732.97	2261072	10.0000
Oxazepam	4.505	7318171	578.19	337.17	29333661	10.0000
Oxycodone	2.833	5180450	1185.44	474.14	23996579	10.0000
Oxymorphone	2.271	2813333	1019.40	866.98	354472	10.0000
Paroxetine	4.269	33688	24.68	11964.32	464120	10.0000
Phenazepam	4.636	5157144	1115.05	1144.34	40248476	10.0000
Phencyclidine	3.850	2181620	8230.12	498.28	2161598	10.0000
Phentermine	3.087	1278205	148.67	54.62	16489424	10.0000
Phenytoin	4.126	4152380	190678.93	2317.03	2261072	10.0000
Promethazine	4.214	586934	587.98	40.48	17299484	10.0000
Pseudoephedrine	2.660	50046696	16258.39	36576.52	17901681	10.0000
Quetiapine	4.160	904173	7631.54	1065.31	41235781	10.0000
Sertraline	4.473	87792	2342.02	35.65	464120	10.0000
Sufentanil	4.175	12950	13144.37	20.18	33017645	10.0000
Tapentadol	3.375	5906093	2880.54	975.94	23996579	10.0000
Temazepam	4.658	13246922	4500.65	256.13	40248476	10.0000
Tramadol	3.356	11768100	2204.84	73.42	17299484	10.0000
Trazodone	4.008	1015566	591.82	2021.19	4835067	10.0000

Cal_AG

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.722	5731427	10366.96	312.64	464120	10.0000
Zaleplon	4.351	9179639	7556486.61	127289.69	41235781	10.0000
Zolpidem	3.751	11685234	1236.29	4220.18	41235781	10.0000
Zopiclone	3.655	1337199	385.23	1022829.24	7256006	10.0000

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

Extraction Date: 7/29/2021 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 ~~20L20723~~ 20L20724 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
LCMS-QQQ ID: 069901 8/3/2021 **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^2 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:
Cal 1 reinjected due to low internal standard response in initial injection.
THC-COOH Cal 6 dropped due to cut off peak and low accuracy.

	1	2	3	4	5	6
A	IS + Cal. 1	Blood Negative	P2021-2457-1	P2021-2475-1	P2021-2529-1	IS + QC_1
B	IS + Cal. 2	M2021-2949-1	P2021-2458-1	P2021-2478-1	P2021-2543-1	IS + Cal. 7
C	IS + Cal. 3	M2021-2994-1	P2021-2459-1	P2021-2479-1	IS + Sample	IS + Cal. 6
D	IS + Cal. 4	M2021-3036-1	P2021-2470-1	P2021-2484-3	IS + Sample	IS + Cal. 5
E	IS + Cal. 5	M2021-3135-1	P2021-2471-1	P2021-2487-1	IS + Sample	IS + Cal. 4
F	IS + Cal. 6	M2021-3249-2	P2021-2472-1	P2021-2523-1	IS + Sample	IS + Cal. 3
G	IS + Cal. 7	P2021-2340-2	P2021-2473-1	P2021-2527-1	IS + Sample	IS + Cal. 2
H	IS + QC_1	P2021-2451-1	P2021-2474-1	P2021-2528-1	IS + Sample	IS + Cal. 1

All wells to contain 100 µl of residual DMSO

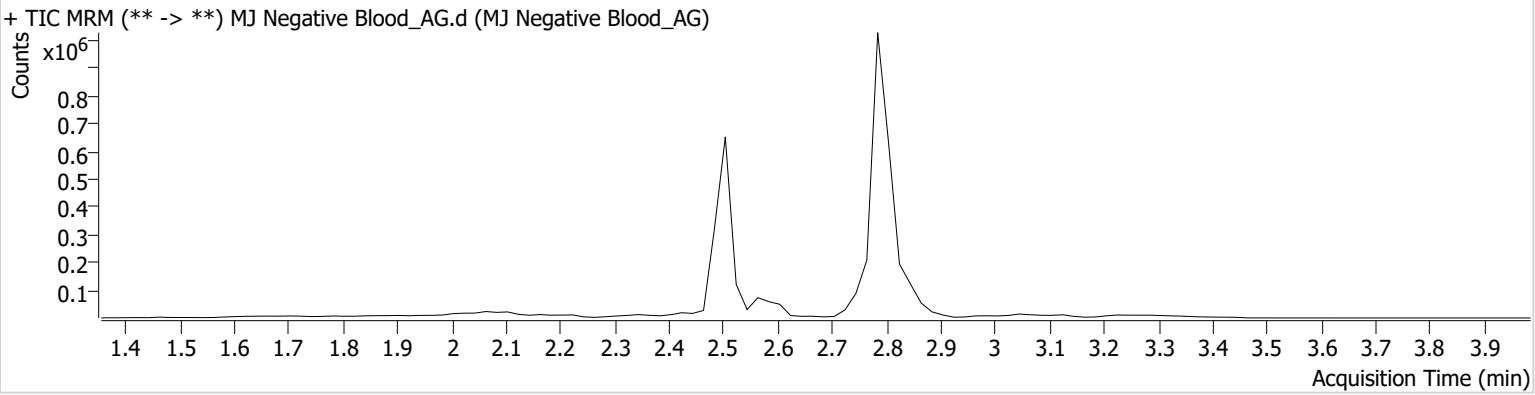
210609

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update	8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Negative Blood_AG.d
Type	Sample	**Sample**	MJ Negative Blood_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:37:59 AM		
Sample Info.			

Sample Chromatogram

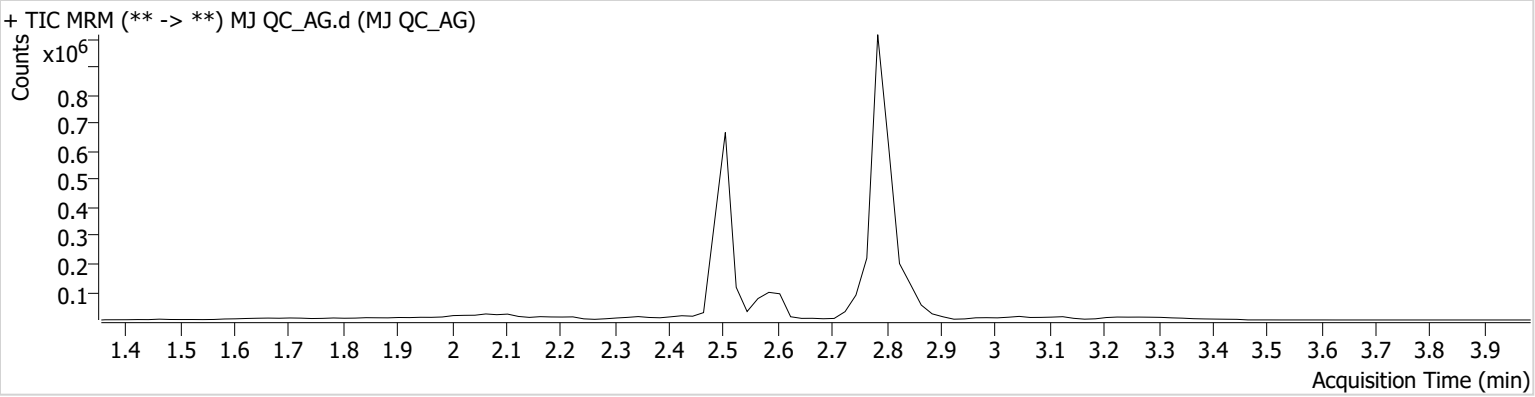


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ QC_AG.d
Type	QC	**Sample**	MJ QC_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:31:28 AM		
Sample Info.			

Sample Chromatogram



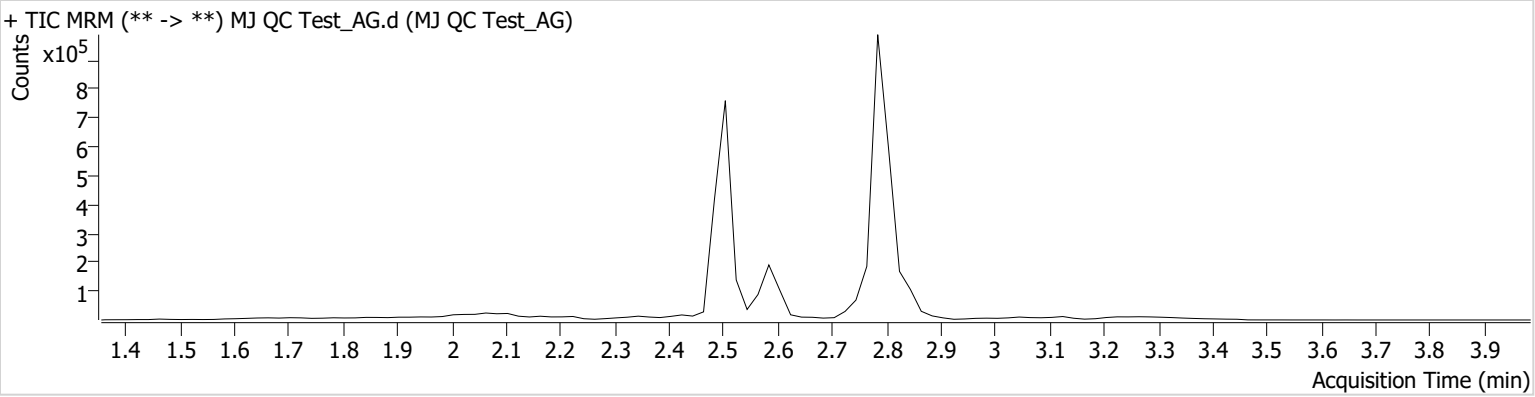
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	8860	214721	4.8639	ng/ml
THC-COOH	2.587	43397	151087	16.2716	ng/ml
THC-OH	2.514	10369	1273091	5.1370	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ QC Test_AG.d
Type	QC	**Sample**	MJ QC Test_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 11:27:52 AM		
Sample Info.			

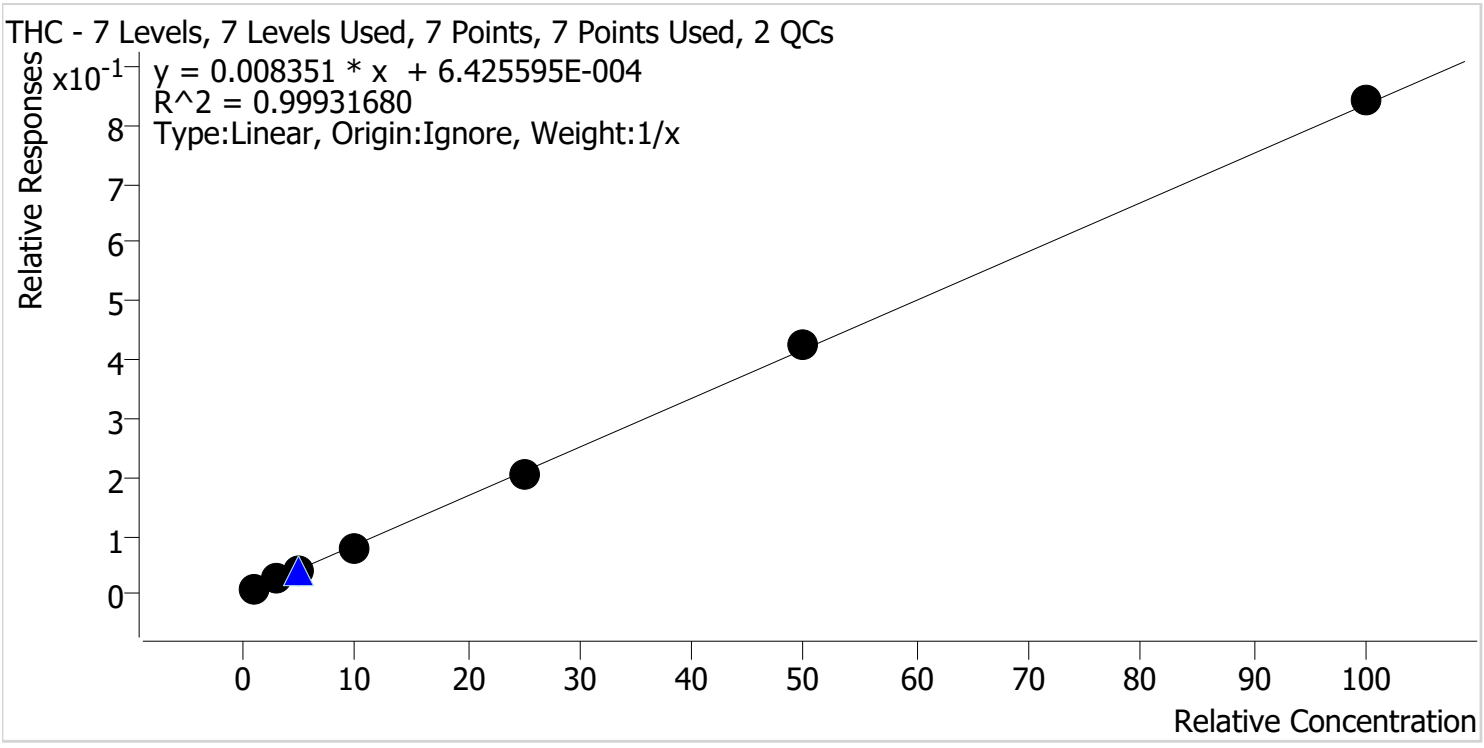
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	6638	166689	4.6915	ng/ml
THC-COOH	2.607	45729	278426	10.8546	ng/ml
THC-OH	2.514	11855	1477159	5.0647	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

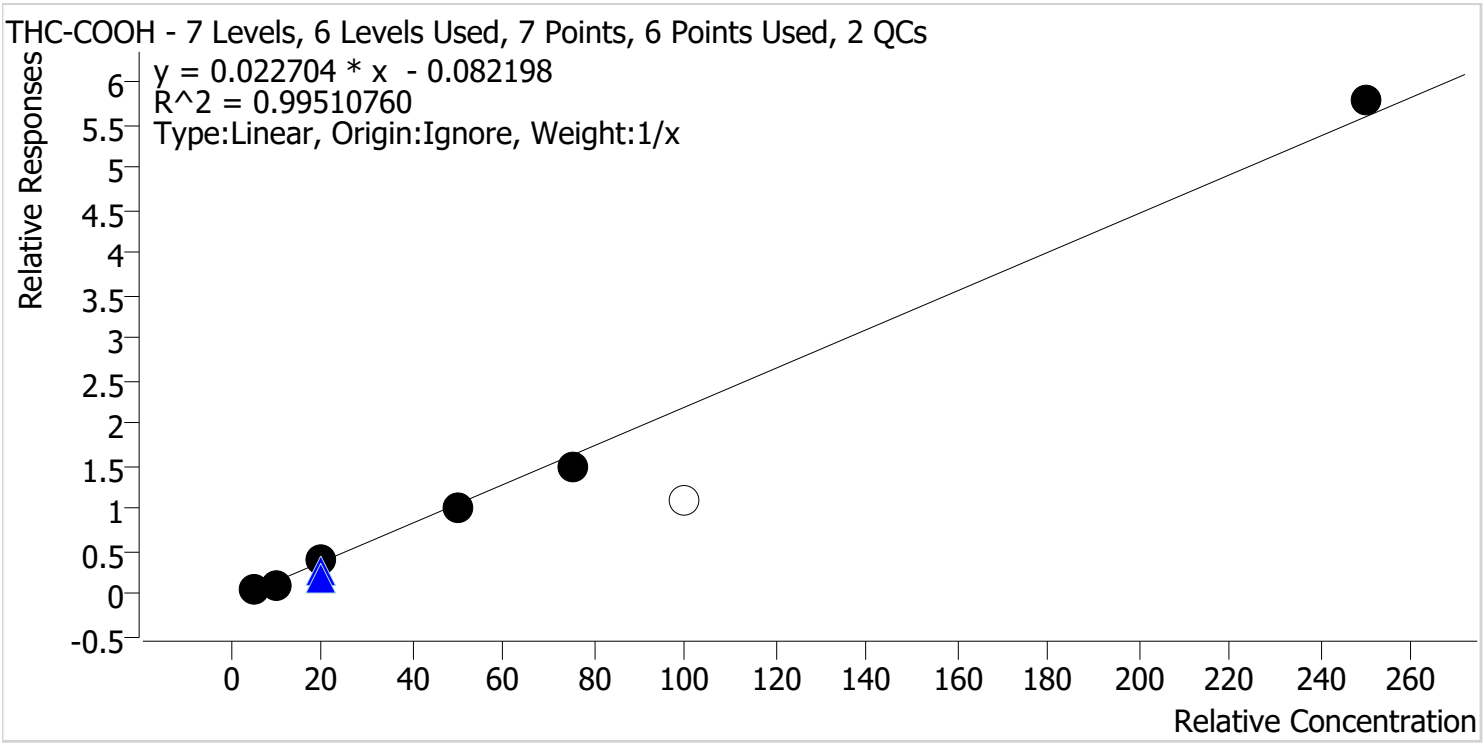
Batch results	D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Last Cal. Update	8/3/2021 2:25 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_AGr	1	✔	1.0	1.1	106.5
MJ Cal 2_AG	2	✔	3.0	3.2	107.0
MJ Cal 3_AG	3	✔	5.0	4.7	93.2
MJ Cal 4_AG	4	✔	10.0	9.4	94.4
MJ Cal 5_AG	5	✔	25.0	24.2	96.8
MJ Cal 6_AG	6	✔	50.0	50.6	101.3
MJ Cal 7_AG	7	✔	100.0	100.8	100.8

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Last Cal. Update 8/3/2021 2:25 PM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

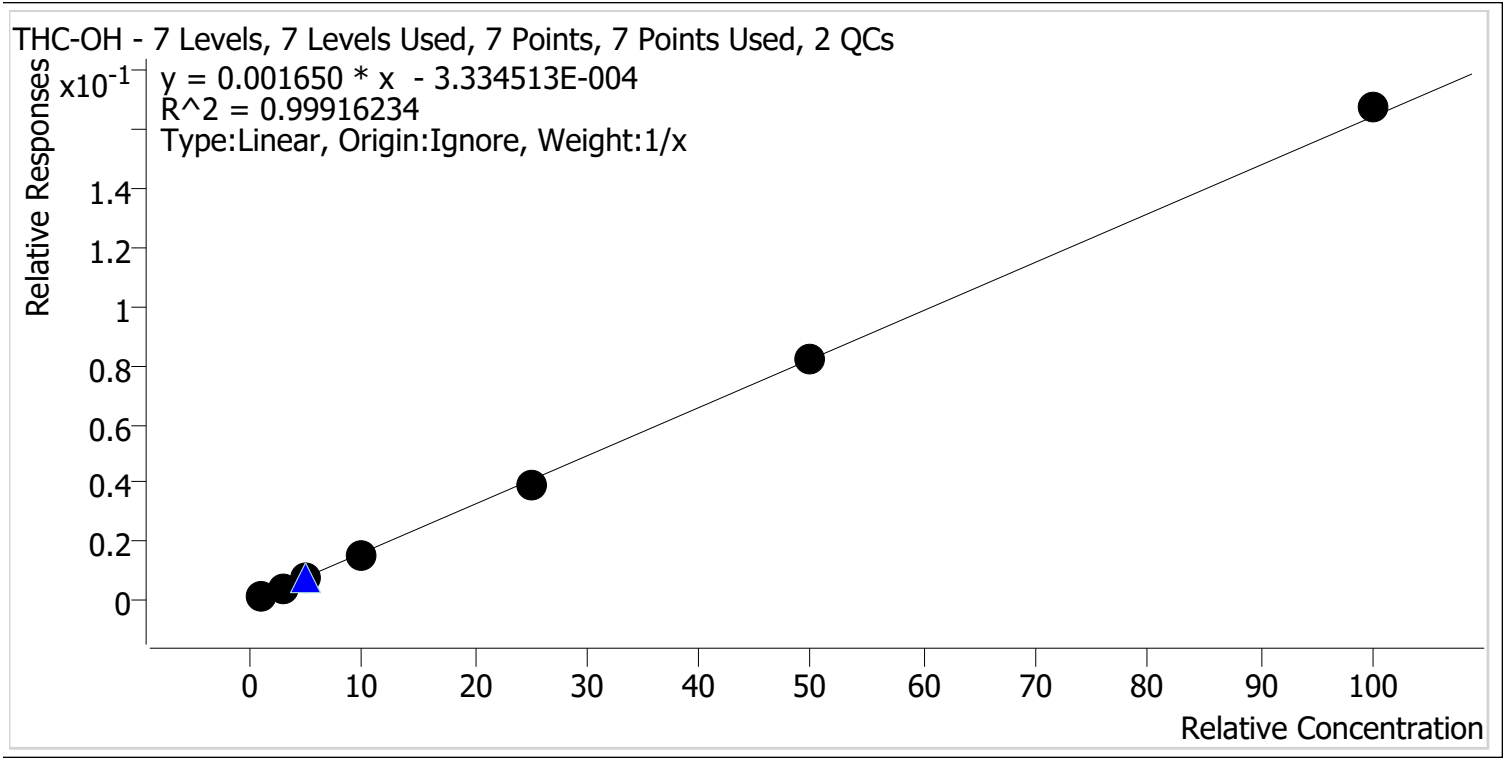


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_AGr	1	✔	5.0	6.1	121.2
MJ Cal 2_AG	2	✔	10.0	8.3	82.6
MJ Cal 3_AG	3	✔	20.0	21.2	106.0
MJ Cal 4_AG	4	✔	50.0	47.9	95.8
MJ Cal 5_AG	5	✔	75.0	68.3	91.1
* MJ Cal 6_AG	6	✗	100.0	51.1	51.1
MJ Cal 7_AG	7	✔	250.0	258.3	103.3

*Cal 6 dropped due to the peak being cut off and low accuracy

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Last Cal. Update	8/3/2021 2:25 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



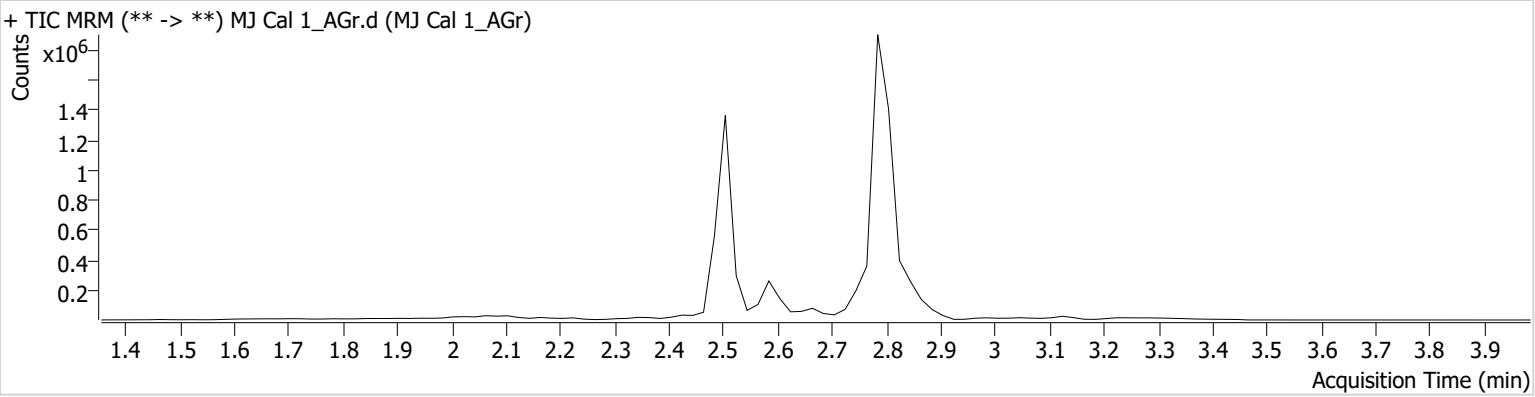
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1_AGr	1	✔	1.0	1.2	116.4
MJ Cal 2_AG	2	✔	3.0	2.8	94.9
MJ Cal 3_AG	3	✔	5.0	4.7	94.3
MJ Cal 4_AG	4	✔	10.0	9.7	97.4
MJ Cal 5_AG	5	✔	25.0	23.9	95.8
MJ Cal 6_AG	6	✔	50.0	49.7	99.5
MJ Cal 7_AG	7	✔	100.0	101.9	101.9

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 1_AGr.d
Type	Cal	**Sample**	MJ Cal 1_AGr
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 1:09:50 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2913	305385	1.0653	ng/ml	**Low**
THC-COOH	2.607	24767	446762	6.0622	ng/ml	
THC-OH	2.514	4142	2608592	1.1641	ng/ml	**Low**

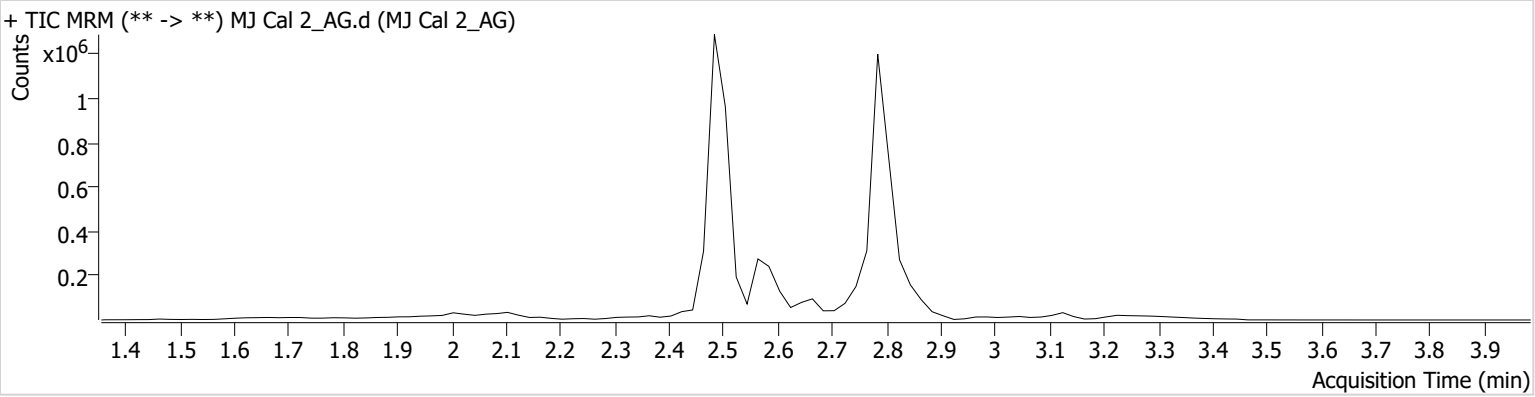
Cal 1 reinjected due to low internal standard response in initial injection.

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 2_AG.d
Type	Cal	**Sample**	MJ Cal 2_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 7:52:07 AM		
Sample Info.			

Sample Chromatogram



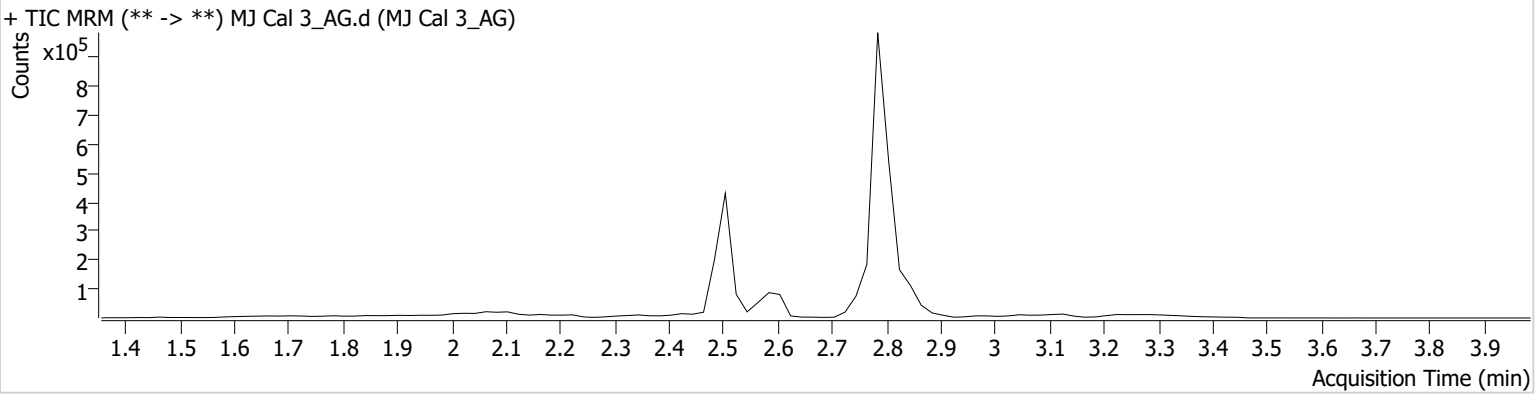
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.839	7077	257739	3.2108	ng/ml	
THC-COOH	2.607	56125	533321	8.2556	ng/ml	
THC-OH	2.494	13349	3059246	2.8459	ng/ml	**Low**

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 3_AG.d
Type	Cal	**Sample**	MJ Cal 3_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 7:58:51 AM		
Sample Info.			

Sample Chromatogram



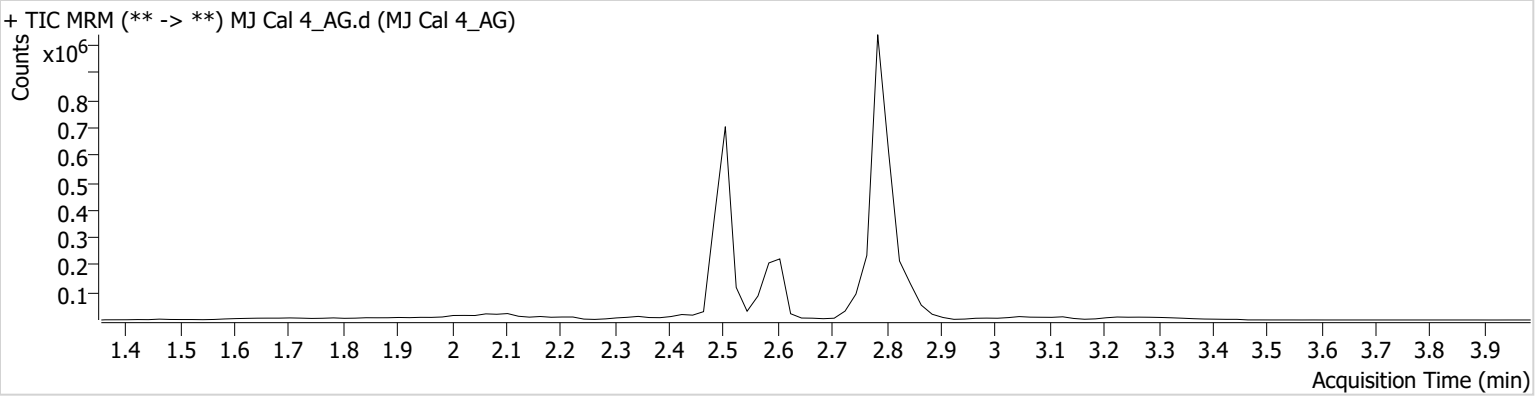
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	7086	179162	4.6590	ng/ml
THC-COOH	2.587	43887	109957	21.2002	ng/ml
THC-OH	2.514	6010	807299	4.7127	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 4_AG.d
Type	Cal	**Sample**	MJ Cal 4_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:05:22 AM		
Sample Info.			

Sample Chromatogram



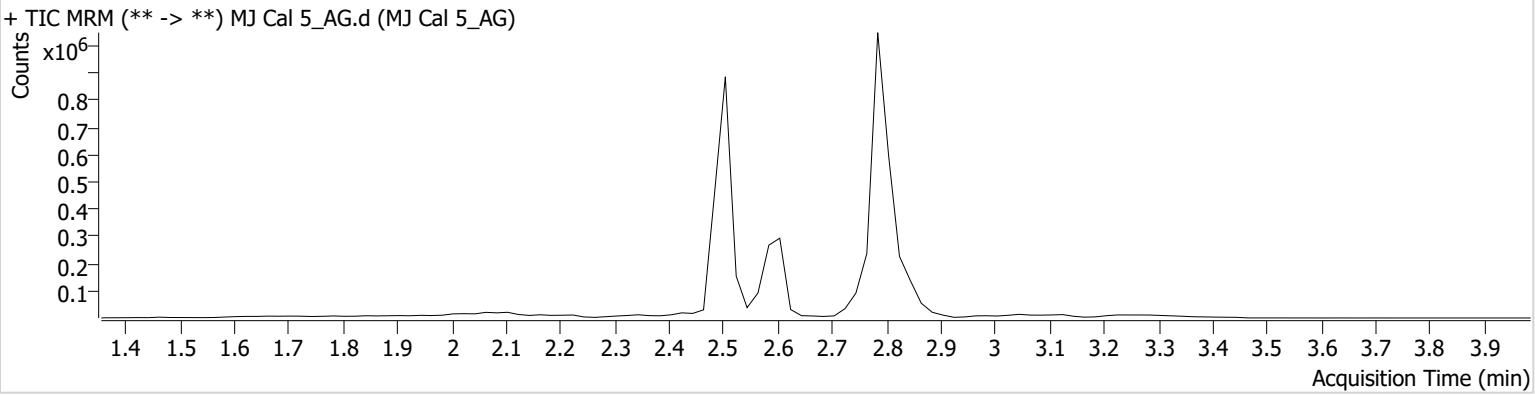
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	17792	223898	9.4380	ng/ml
THC-COOH	2.587	161330	160467	47.9029	ng/ml
THC-OH	2.514	19839	1260888	9.7355	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 5_AG.d
Type	Cal	**Sample**	MJ Cal 5_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:11:53 AM		
Sample Info.			

Sample Chromatogram



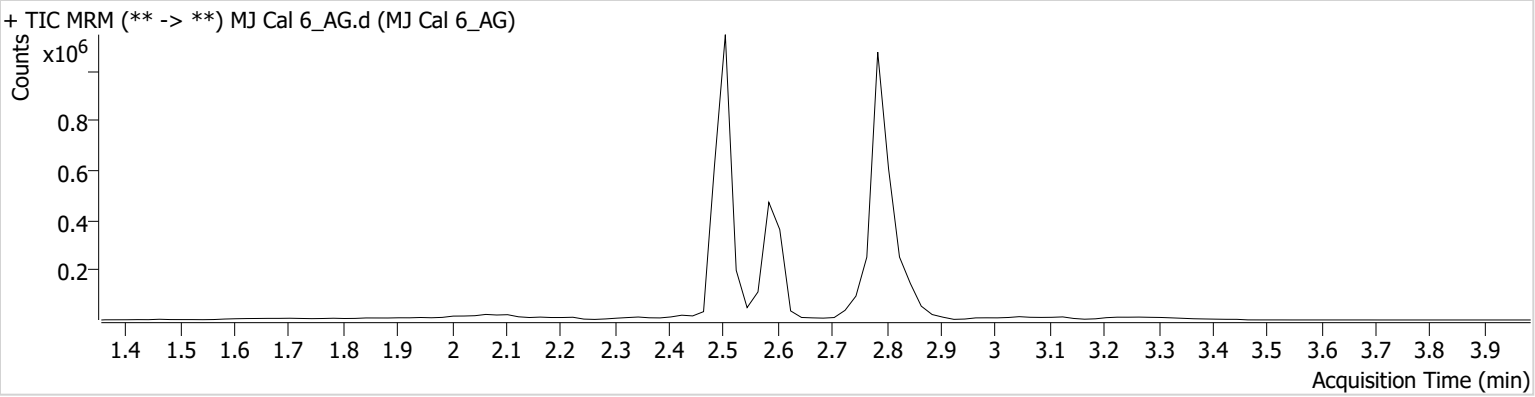
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	44023	217042	24.2102	ng/ml
THC-COOH	2.587	224783	153037	68.3156	ng/ml
THC-OH	2.514	51958	1326012	23.9440	ng/ml

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update	8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 6_AG.d
Type	Cal	**Sample**	MJ Cal 6_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:18:24 AM		
Sample Info.			

Sample Chromatogram



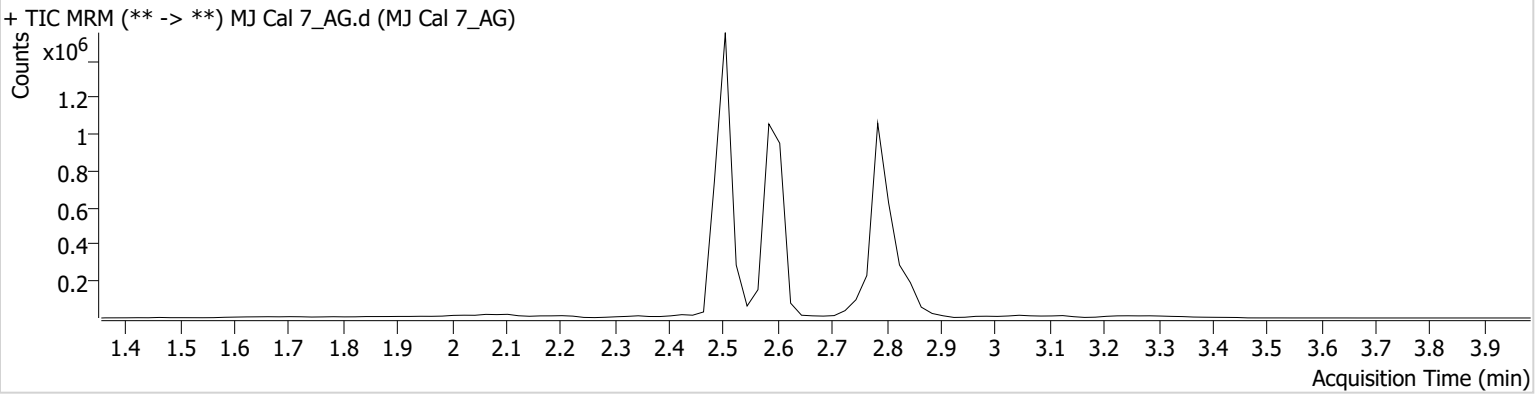
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	87475	206570	50.6285 ng/ml
THC-COOH	2.587	307767	285360	51.1246 ng/ml
THC-OH	2.514	112074	1370632	49.7462 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\072821 AM 27 28 CS\QuantResults\AM 26 Amber.batch.bin
Calibration Last Update 8/3/2021 2:25:13 PM

Instrument	Falco (069901)	**Data File**	MJ Cal 7_AG.d
Type	Cal	**Sample**	MJ Cal 7_AG
Acq. Method	AM 26 THCS.m	**Operator**	Amber Gerheart
Sample Position	P5-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	7/30/2021 8:24:55 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	166995	198245	100.7882	ng/ml
THC-COOH	2.587	931563	161133	258.2634	ng/ml
THC-OH	2.514	212247	1265155	101.8517	ng/ml