

REVIEWED

By Tamara Salazar at 8:00 am, Apr 06, 2021









3/29/2021

CS

Worklist: 4862

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2021-0777	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0921	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-0969	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-1027	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2021-1064	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0237	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0237	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0237	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0365	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0439	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0498	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0526	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0668	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0669	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0673	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0704	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0705	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0706	1	BLOOD	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0720	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0729	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0752	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 4862

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2021-0759	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0762	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0773	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0779	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0780	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0781	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0782	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2021-0783	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

P2021-0391-1 was also included in this run (AM 26 only).
CS 04/06/21

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

Extraction Date: 03/23/2021

Analyst: Celena Shrum

Plate lot#: 201206

Plate Expiration: 06/06/2021

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 20L20724

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

LCMS-QQQ ID: 069901

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. Using a calibrated pipette, pipette **250µL blood** into wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 4. Pipette **250µL 0.5 M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **200-450µL of blood+base and** mixture to corresponding wells of SLE+ plate.
Amount transferred: 300µl
- 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). Manifold ID: 067104
- 8. Wait 5 minutes.
- 9. Add **900uL ethyl acetate**.
- 10. Wait 5 minutes.
- 11. Apply positive pressure for approx. 15 seconds. *(10-15 PSI- Selector to the left).*
- 12. Add **900uL ethyl acetate**.
- 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 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:

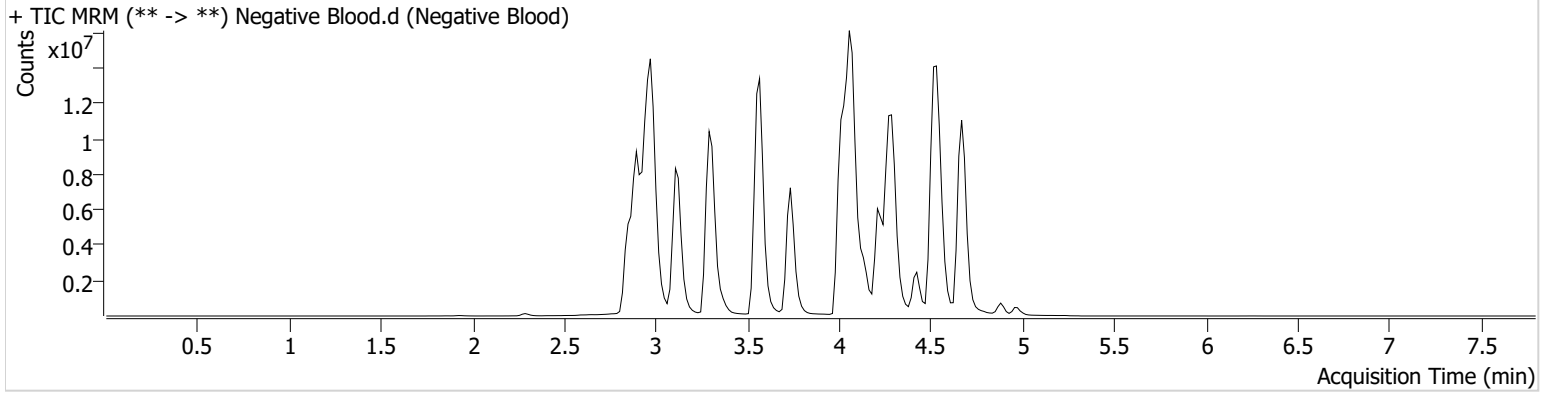
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/2/2021 7:29:53 AM

Instrument	Instrument 1	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-G1	Comment	
Injection Volume	5		
Acq. Date-Time	3/24/2021 9:46:38 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Methamphetamine	2.996	5130205	744.97	458.98	33961088	4.5801<10

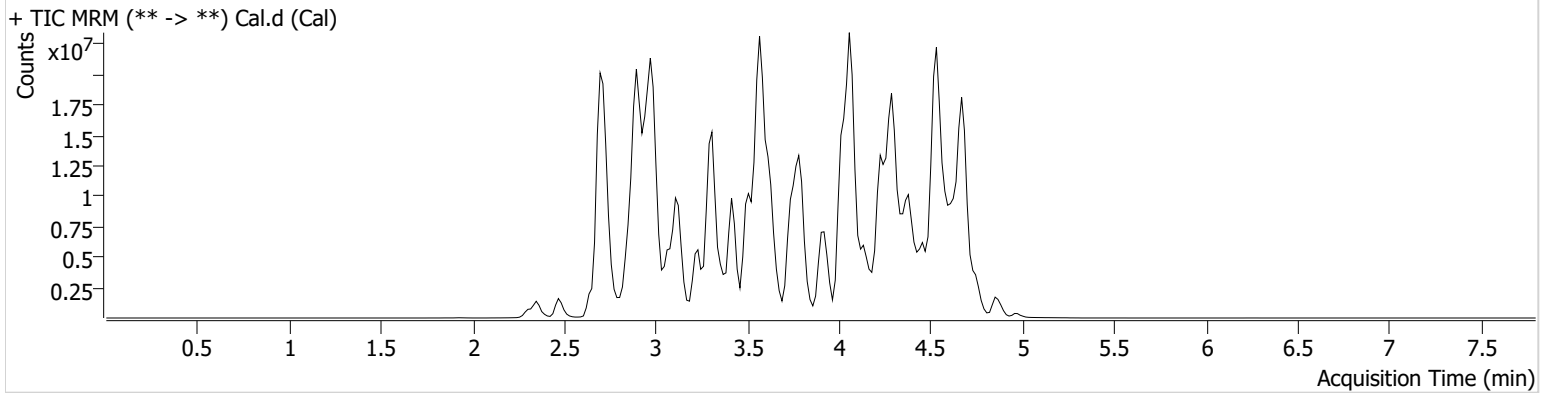
AM #25 Multi-Drug Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/2/2021 7:29:53 AM

Instrument	Instrument 1	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	AM 25 MDS.m	Operator	Celena Shrum
Sample Position	P2-B1	Comment	
Injection Volume	5		
Acq. Date-Time	3/24/2021 9:38:05 AM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.907	105039	1283.90	69697.10	3077268	10.0000
7-aminoclonazepam	3.584	2538463	5503.96	2151.51	9947860	10.0000
7-aminoflunitrazepam	3.783	3679447	376.80	1228.18	9947860	10.0000
Acetyl Fentanyl	3.856	306235	226.77	170602.41	37450398	10.0000
Acetyl Norfentanyl	2.886	575773	654.13	207.04	37450398	10.0000
a-hydroxyalprazolam	4.531	682232	1194.81	459.18	9947860	10.0000
alpha-hydroxymidazolam	4.606	4189256	653.87	236.11	9947860	10.0000
Alpha-PHP	3.803	4983056	14278.74	2900.11	37450398	10.0000
alpha-PVP	3.529	6986615	754.00	579.32	15165396	10.0000
Alprazolam	4.626	6081046	425.58	1417.44	34675798	10.0000
Amitriptyline	4.431	1206157	96.95	236.00	4710986	10.0000
Amphetamine	2.890	5229211	955.23	629.00	15165396	10.0000
Benzoylcegonine	3.385	513635	668.60	198.85	860487	10.0000
Brompheniramine	4.026	79477	935.68	932.96	38981811	10.0000
Buprenorphine	4.573	771765	6189.69	82238.57	3166005	10.0000
Bupropion	3.758	5737992	766.84	1184.68	21617600	10.0000
Carbamazepine	4.250	18013969	∞	553.30	1487051	10.0000
Carisoprodol	4.233	2927880	186148.57	422.75	17204790	10.0000
Chlordiazepoxide	4.750	3124136	3567.55	1099.23	34675798	10.0000
Chlorpheniramine	3.939	6553465	2387.02	6.30	38981811	10.0000
Citalopram	4.055	2773487	405.28	558.00	38981811	10.0000
Clomipramine	4.624	2374321	8364.27	6883.24	38981811	10.0000
Clonazepam	4.455	3041498	688830.84	674.76	34675798	10.0000
Clonazolam	4.375	3617593	1310840.22	895683.44	34675798	10.0000
Cocaethylene	3.765	8024240	8227.93	1655.69	37290460	10.0000
Cocaine	3.567	8832916	6767.85	2775.04	37290460	10.0000
Codeine	2.805	659647	3845.60	358.95	17918401	10.0000
Cyclobenzaprine	4.339	1817963	77832.82	16.08	4710986	10.0000
Desipramine	4.370	2803020	1753.84	1116.14	4710986	10.0000
Dextromethorphan	4.063	1622097	757.35	316.67	8443940	10.0000
Dextrorphan	3.356	3997336	2995.27	463.19	8443940	10.0000
Diazepam	4.858	2202411	676.19	1091.24	34675798	10.0000
Dihydrocodeine	2.743	1819588	3441.51	734.95	17918401	10.0000
Diphenhydramine	4.017	8096766	1478.68	950.97	38981811	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.153	1277665	284.29	36.60	19772334	10.0000
Doxylamine	3.632	14564868	2138.67	381.88	8443940	10.0000
EDDP	4.061	1605468	314.63	174.85	3506917	10.0000
Estazolam	4.535	11431381	858.62	3633.38	34675798	10.0000
Etizolam	4.636	756976	4037.74	1239435.73	34675798	10.0000
Fentanyl	4.085	186829	123.11	646.59	12836203	10.0000
Flualprazolam	4.484	2261986	2447.14	2301855.81	34675798	10.0000
Flunitrazepam	4.579	5689069	1086.74	1377.92	34675798	10.0000
Fluoxetine	4.319	1746050	468.48	58.37	6017952	10.0000
Flurazepam	4.175	3788780	4314400.22	611339.30	34675798	10.0000
Hydrocodone	3.003	2846570	1627.48	125.24	17918401	10.0000
Hydromorphone	2.473	2642845	3431.34	19700.73	401650	10.0000
Imipramine	4.383	3628897	1219.61	513.10	4710986	10.0000
Ketamine	3.497	6160160	1767.55	321.00	26109559	10.0000
Lamotrigine	3.587	589707	13284.59	52784.81	38981811	10.0000
Levamisole	2.963	5100028	2961.87	250.00	37290460	10.0000
Levetiracetam	2.659	2196490	1260.41	2691.19	38981811	10.0000
Lorazepam	4.455	1226862	696.72	∞	34675798	10.0000
Maprotiline	4.431	884285	52.03	302.77	4710986	10.0000
MDA	2.994	4212307	592.33	278.03	33707131	10.0000
MDEA	3.223	6712683	908.28	1288.07	33707131	10.0000
MDMA	3.070	9016589	725.90	2657.82	33707131	10.0000
Meperidine	3.588	3497692	553.10	2218.08	8443940	10.0000
Meprobamate	3.668	1853553	1737.54	106.12	17204790	10.0000
Methadone	4.380	5038699	1600.79	503.76	3506917	10.0000
Methamphetamine	2.996	11117436	2064.41	442.80	33707131	10.0000
Methocarbamol	3.589	1249216	348.99	882.83	3506917	10.0000
Methylphenidate	3.497	14452190	971.93	1215.81	25969291	10.0000
Metoprolol	3.418	1023570	568.18	670.85	8443940	10.0000
Midazolam	4.760	958639	738.00	686934.64	34675798	10.0000
Mirtazapine	3.924	3052210	40456.95	2355.57	8443940	10.0000
Mitragynine	4.190	335393	100423.49	400.65	8443940	10.0000
Morphine	2.307	512668	∞	686.90	401650	10.0000
Norbuprenorphine	3.822	74175	51795.91	72204.29	3166005	10.0000
Nordiazepam	4.707	3308657	1654.63	2263.04	34675798	10.0000
Norfentanyl	3.313	11038423	1125170.18	3724.71	37450398	10.0000
Norhydrocodone	2.913	74051	58.32	36.48	401650	10.0000
Norketamine	3.606	1104088	230.40	1401.16	26109559	10.0000
Normeperidine	3.590	2779091	684.72	225.79	38981811	10.0000
Noroxycodone	2.881	1975262	∞	138.78	26109559	10.0000
Nortriptyline	4.417	974872	547.99	240.79	4710986	10.0000
O-desmethyl-tramadol	2.899	12361247	1970.23	2156.68	38981811	10.0000
Olanzapine	3.796	275600	160993.58	78.06	1487051	10.0000
Oxazepam	4.521	5242372	1063.42	262.93	22428984	10.0000
Oxycodone	2.909	5867245	427.35	546.28	26109559	10.0000
Oxymorphone	2.347	2598349	6622.02	376.10	401650	10.0000
Paroxetine	4.331	223767	442.62	1276.37	6017952	10.0000
Phenazepam	4.651	5150607	2056.57	17860.02	34675798	10.0000
Phencyclidine	3.911	6388103	636.12	289.08	8443940	10.0000
Phentermine	3.149	2390058	201.06	31.97	25969291	10.0000
Phenytoin	4.141	2457889	799.29	1832.10	1487051	10.0000
Promethazine	4.337	4371860	528.46	439.88	38981811	10.0000
Pseudoephedrine	2.705	56409994	851.61	3684.40	33707131	10.0000
Quetiapine	4.467	3692831	2586.52	1205171.02	43657392	10.0000
Sertraline	4.565	1022898	7935.92	1633.90	6017952	10.0000
Sufentanil	4.420	173635	960.47	227.51	37450398	10.0000
Tapentadol	3.422	8660642	1464.35	4370.75	26109559	10.0000
Temazepam	4.689	9674683	1555.29	1468.29	34675798	10.0000
Tramadol	3.418	14199634	605.64	84.49	38981811	10.0000
Trazodone	4.590	4293194	774.31	993.34	19772334	10.0000

Cal

AM #25 Multi-Drug Screen Results



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.784	9752169	2477.65	539.83	6017952	10.0000
Zaleplon	4.351	4920272	1239.19	1798.17	43657392	10.0000
Zolpidem	4.289	15392453	4427.12	415.32	43657392	10.0000
Zopiclone	4.144	1014595	1176479.90	12250.95	5531477	10.0000

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

Extraction Date: 03/23/2021

Analyst: Celena Shrum

Plate lot#: IDP-108-2-201206

Plate Expiration: 06/06/2021

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

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. Using a calibrated pipette, add **1000µl blood (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** of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- 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)** Manifold ID: 067104
- 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. **SPE Dry ID: 067103**
- 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: Curve Limitations: THC 3-100, c-THC 5-250, and THC-OH 3-100

	1	2	3	4	5	6
a	cal 1ng	Blood NC	P2021-0237-3	P2021-0673-1	P2021-0762-1	P2021-0759-1 (moved from H4)
b	cal 3 ng	M2021-0777-1	P2021-0365-2	P2021-0704-1	P2021-0773-1	M2021-1027-2 (moved from D2)
c	cal 5 ng	M2021-0921-1	P2021-0391-1	P2021-0705-1	P2021-0779-1	
d	cal 10ng		P2021-0439-1	P2021-0706-1	P2021-0780-1	
e	cal 25 ng	Not used	P2021-0498-2	P2021-0720-1	P2021-0781-1	
f	cal 50 ng	M2021-1064-3	P2021-0526-1	P2021-0729-1	P2021-0782-1	
g	cal 100 ng	P2021-0237-1	P2021-0668-1	P2021-0752-2	P2021-0783-1	
h	QC 1	P2021-0237-2	P2021-0669-1		M2021-0969-1	

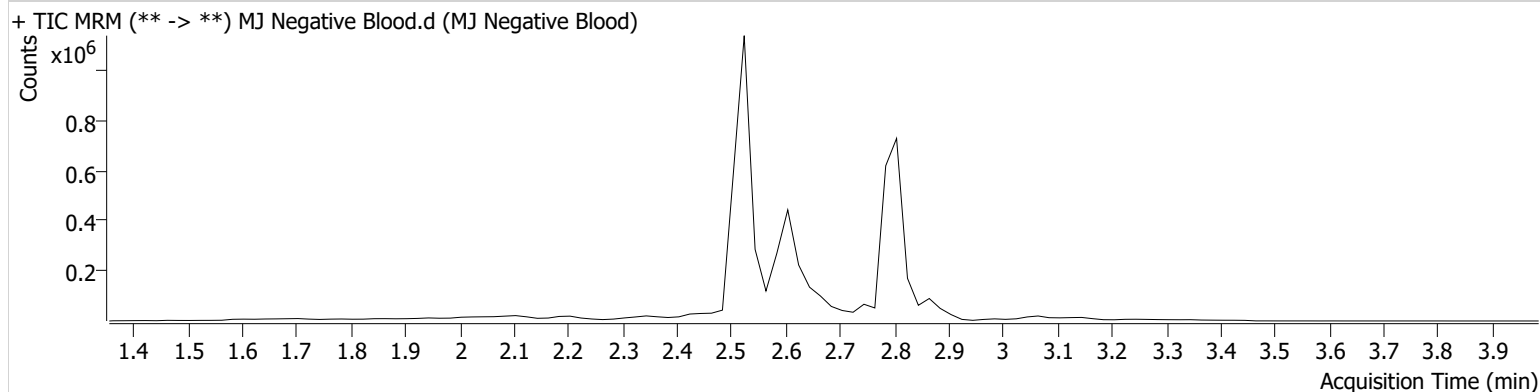
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument Type	Instrument 1 Sample	Data File	MJ Negative Blood.d
Acq. Method	AM 26 THCS.m	Sample	MJ Negative Blood
Sample Position	P1-A2	Operator	Celena Shrum
Injection Volume	10	Comment	
Acq. Date-Time	3/23/2021 4:52:58 PM		
Sample Info.			

Sample Chromatogram



AM #26 Cannabinoids Screen Results

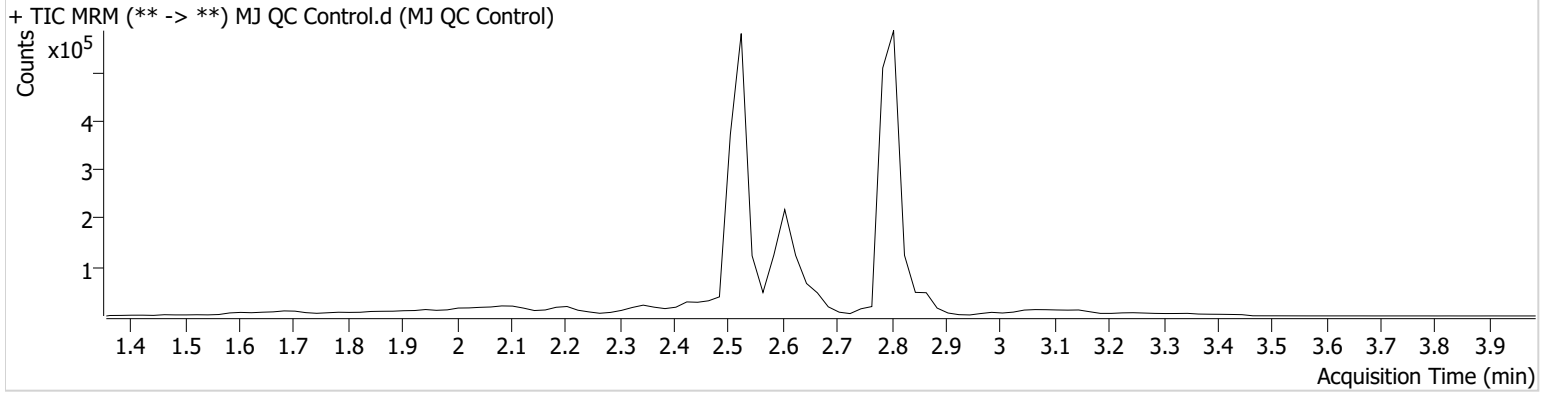


Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ QC Control.d
Type	Sample	Sample	MJ QC Control
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:39:52 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2893	20795	15.1058 ng/ml
THC-COOH	2.605	98237	310109	14.5146 ng/ml
THC-OH	2.534	7053	1218830	3.9065 ng/ml

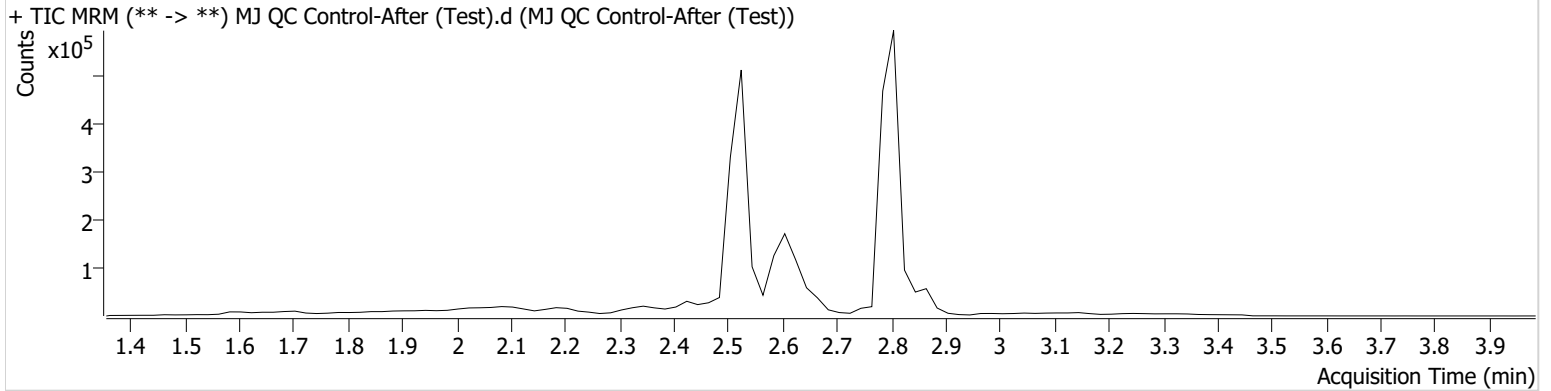
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 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	Celena Shrum
Sample Position	P1-H1	Comment	
Injection Volume	10		
Acq. Date-Time	3/24/2021 8:35:29 AM		
Sample Info.			

Sample Chromatogram

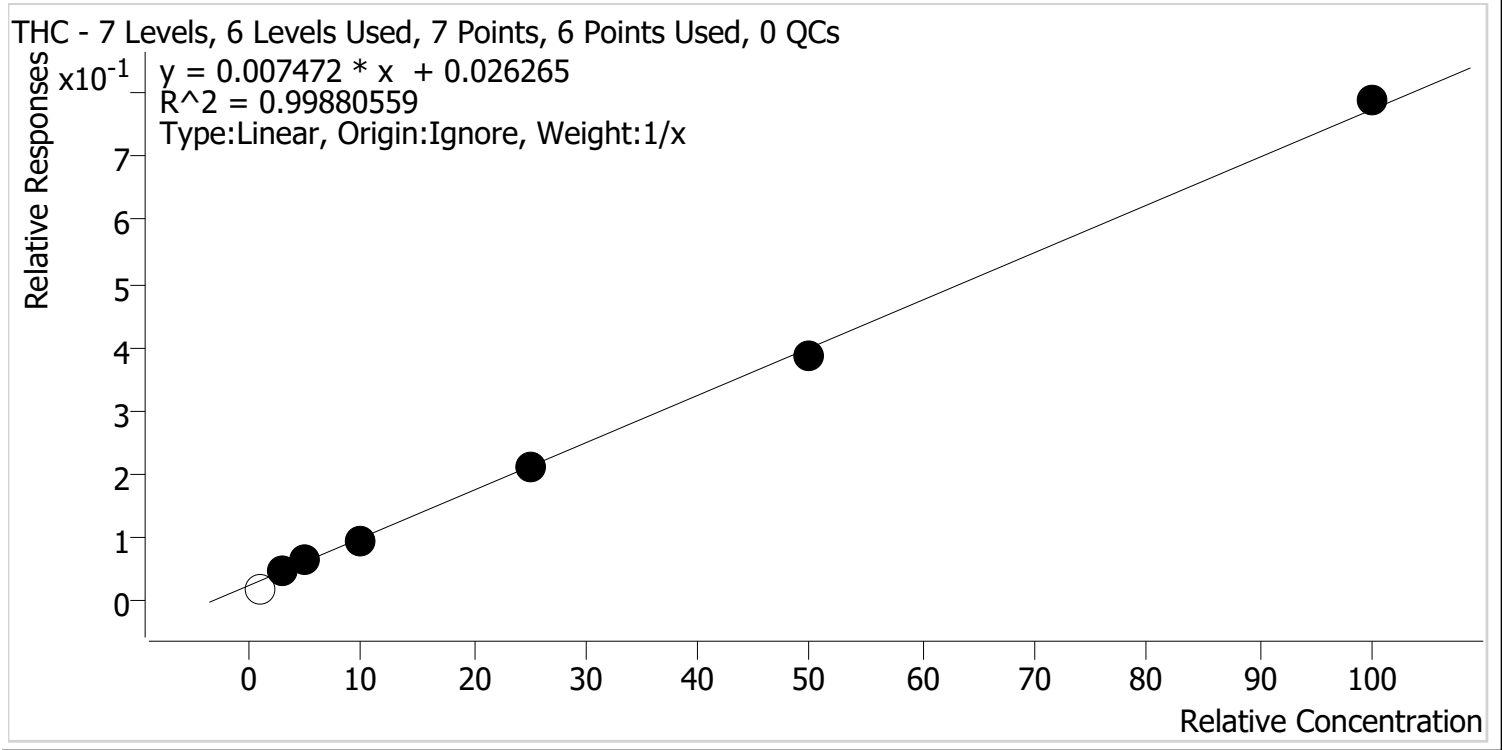


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2249	19472	11.9455 ng/ml
THC-COOH	2.605	71165	245351	13.1769 ng/ml
THC-OH	2.534	6243	1071634	3.9318 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/24/2021 8:51 AM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3

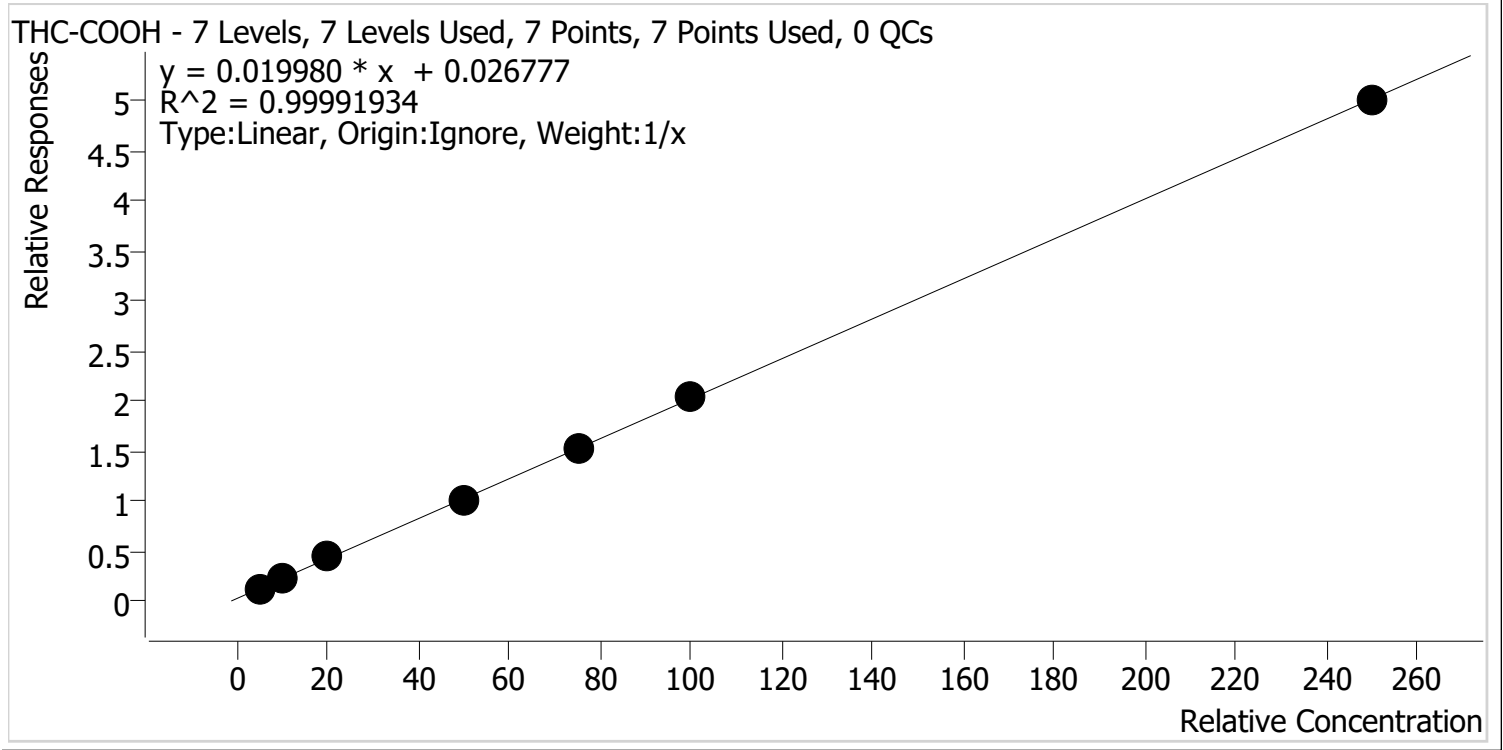


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	0.0	0.0
MJ Cal 2	2	✓	3.0	3.0	99.6
MJ Cal 3	3	✓	5.0	5.5	109.4
MJ Cal 4	4	✓	10.0	9.3	93.0
MJ Cal 5	5	✓	25.0	24.7	98.8
MJ Cal 6	6	✓	50.0	48.7	97.3
MJ Cal 7	7	✓	100.0	101.9	101.9



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/24/2021 8:51 AM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

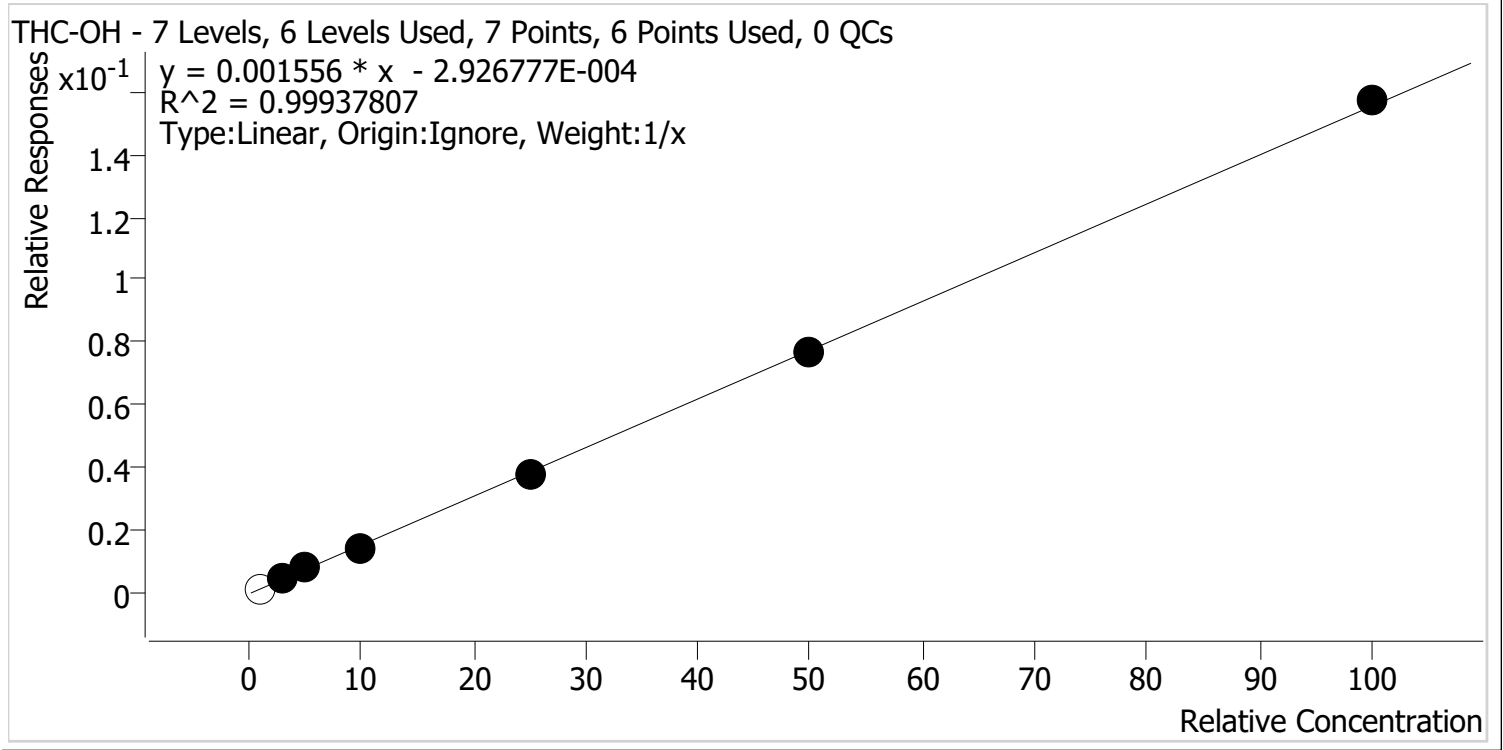


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	4.8	96.2
MJ Cal 2	2	✓	10.0	10.1	100.7
MJ Cal 3	3	✓	20.0	20.6	103.1
MJ Cal 4	4	✓	50.0	49.9	99.7
MJ Cal 5	5	✓	75.0	75.3	100.4
MJ Cal 6	6	✓	100.0	100.1	100.1
MJ Cal 7	7	✓	250.0	249.2	99.7



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update 3/24/2021 8:51 AM
Analyst Name ISP\Datastor
Analyte THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	x	1.0	1.1	107.6
MJ Cal 2	2	✓	3.0	2.9	97.5
MJ Cal 3	3	✓	5.0	5.4	108.7
MJ Cal 4	4	✓	10.0	9.6	96.1
MJ Cal 5	5	✓	25.0	24.4	97.4
MJ Cal 6	6	✓	50.0	49.5	99.1
MJ Cal 7	7	✓	100.0	101.1	101.1



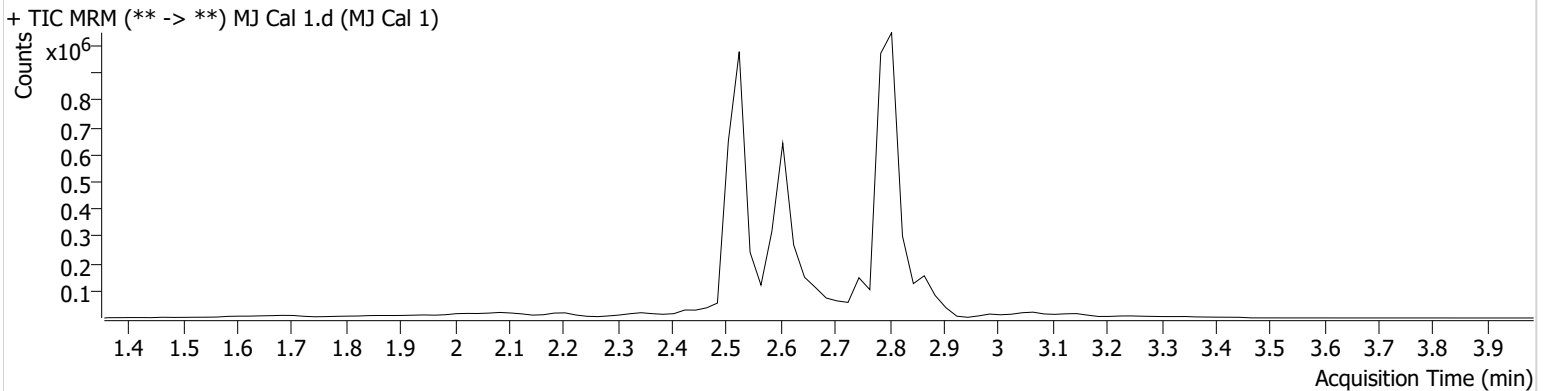
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument Instrument 1
Type Cal
Acq. Method AM 26 THCS.m
Sample Position P1-A1
Injection Volume 10
Acq. Date-Time 3/23/2021 3:54:04 PM
Sample Info.

Data File MJ Cal 1.d
Sample MJ Cal 1
Operator Celena Shrum
Comment

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC-COOH	2.605	119289	970541	4.8114 ng/ml	Low
THC-OH	2.534	3098	2243315	1.0756 ng/ml	Low

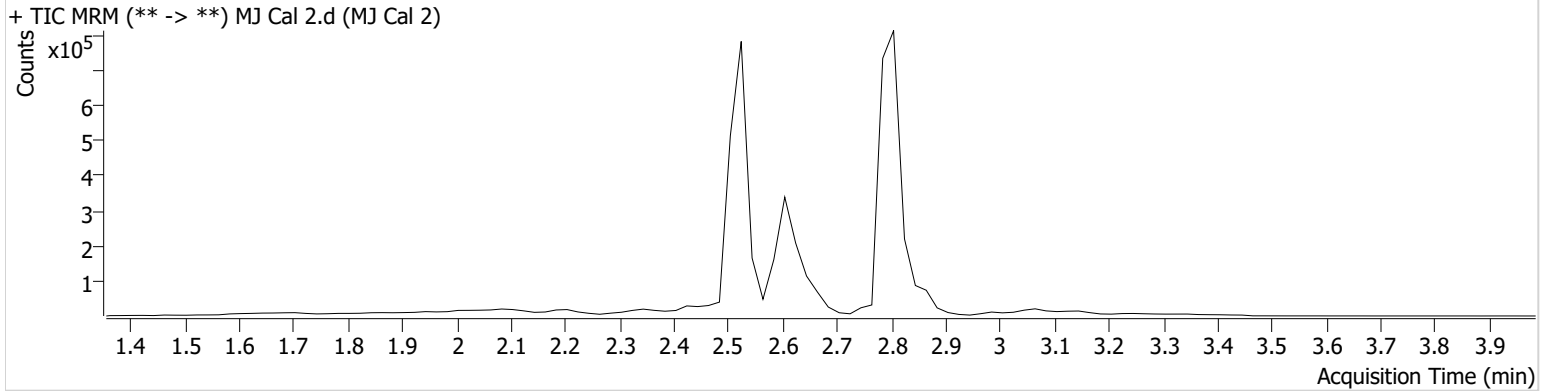
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-B1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:00:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1922	39559	2.9875 ng/ml	Low
THC-COOH	2.605	112625	493908	10.0726 ng/ml	
THC-OH	2.534	7246	1701051	2.9254 ng/ml	Low

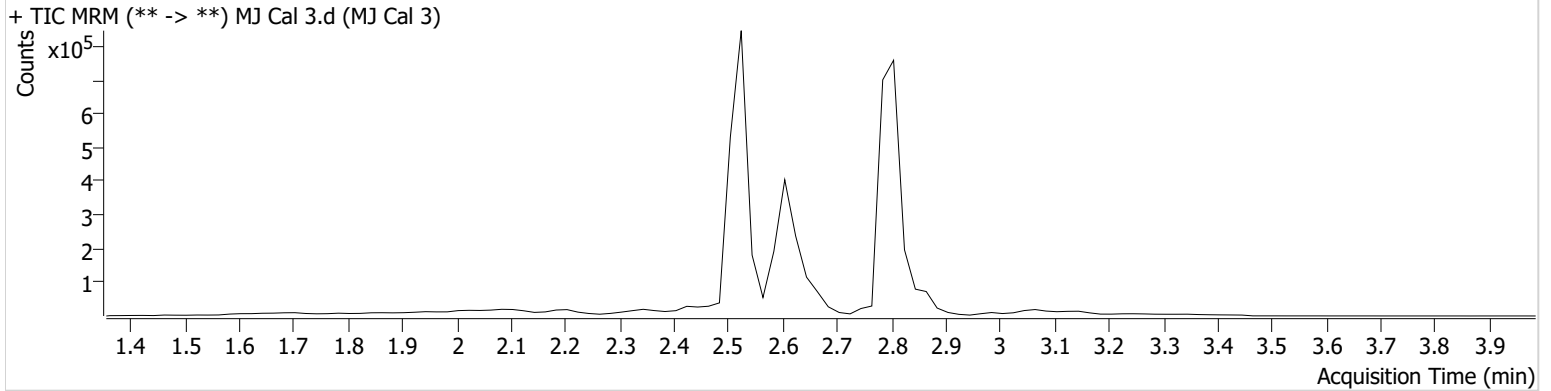
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-C1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:07:17 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	2591	38592	5.4719 ng/ml
THC-COOH	2.605	231680	527998	20.6211 ng/ml
THC-OH	2.534	14416	1765335	5.4359 ng/ml

AM #26 Cannabinoids Screen Results

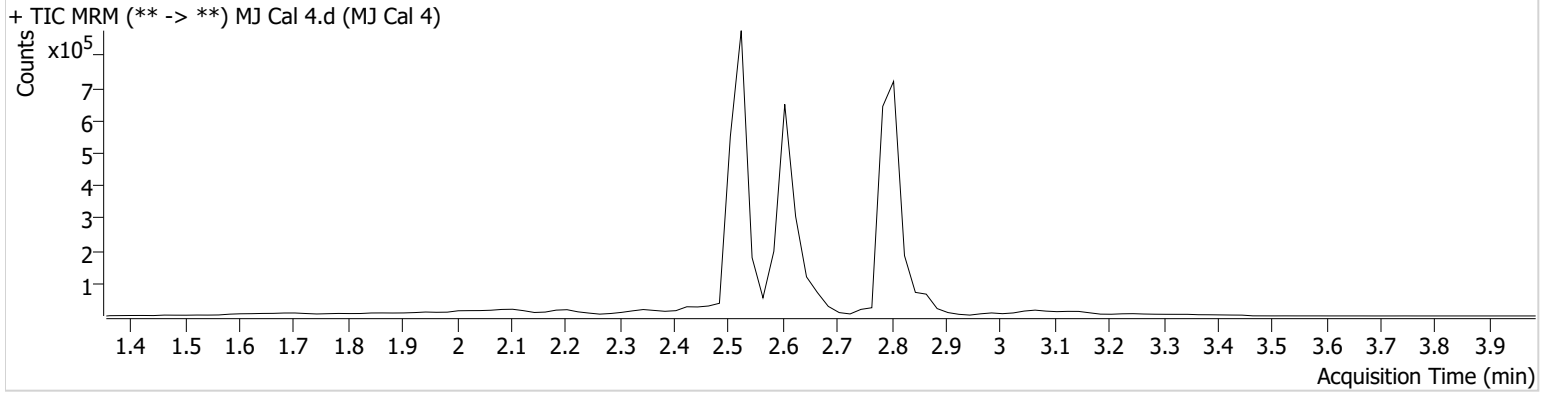


Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-D1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:13:48 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	3440	35938	9.2968 ng/ml
THC-COOH	2.605	485079	474115	49.8669 ng/ml
THC-OH	2.534	25102	1711652	9.6125 ng/ml

AM #26 Cannabinoids Screen Results

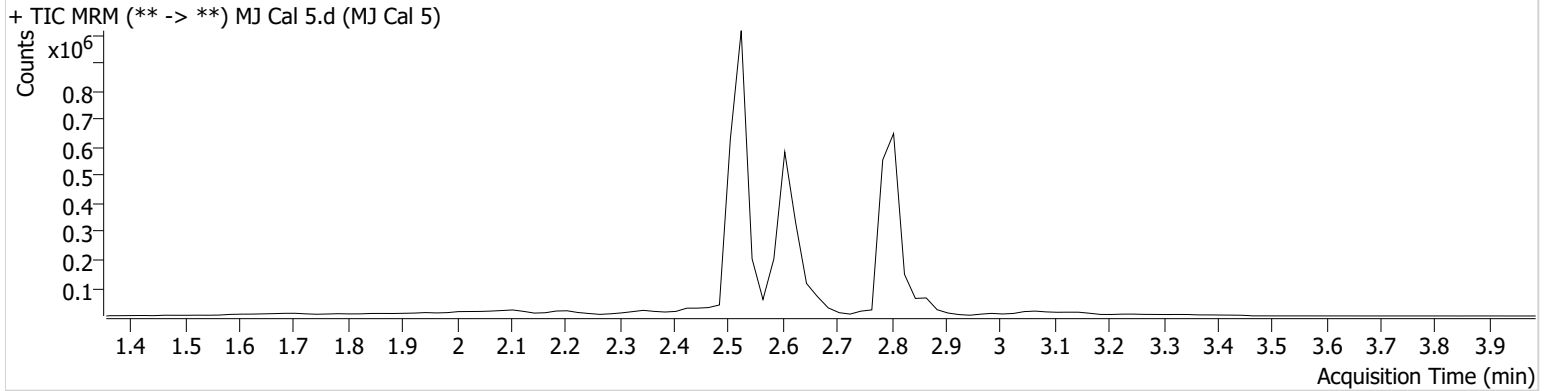


Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-E1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:20:19 PM		

Sample Info.

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	7112	33728	24.7053 ng/ml
THC-COOH	2.605	633133	413544	75.2856 ng/ml
THC-OH	2.534	63336	1683768	24.3607 ng/ml

CS

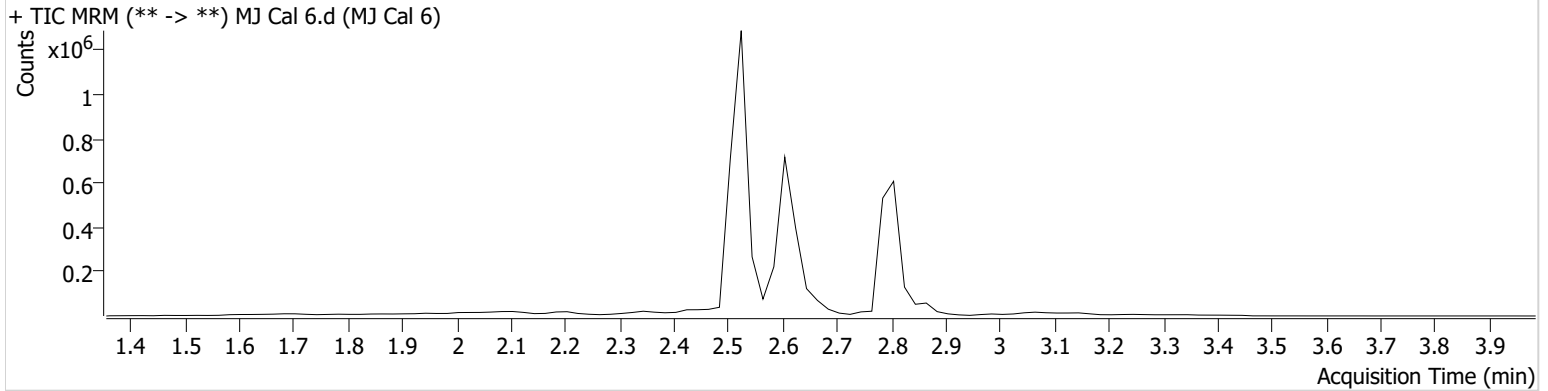


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-F1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:26:50 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	11729	30093	48.6504 ng/ml
THC-COOH	2.605	839346	413928	100.1484 ng/ml
THC-OH	2.534	125545	1634847	49.5368 ng/ml

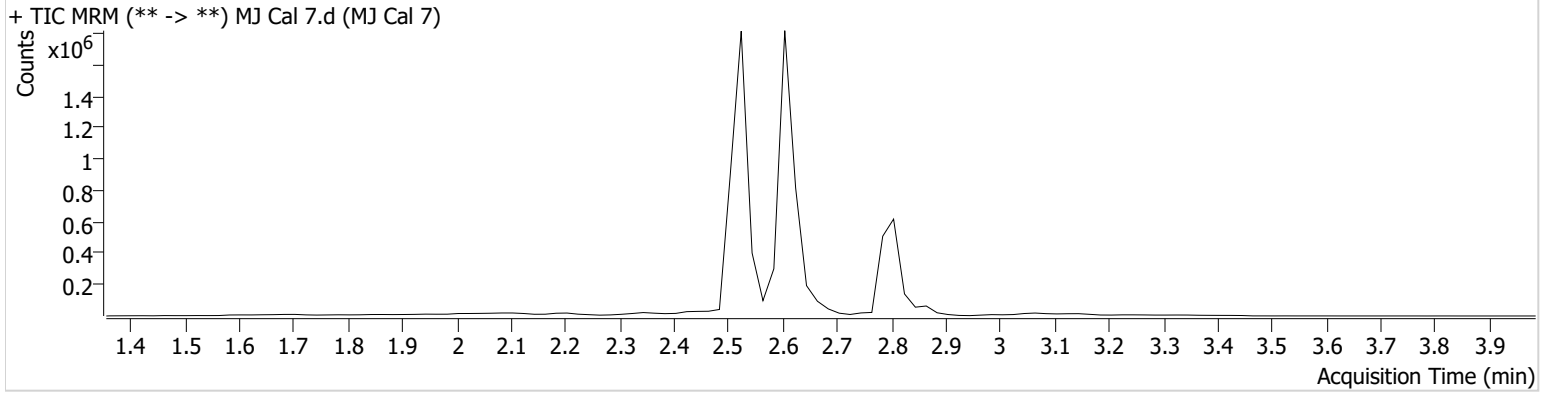
AM #26 Cannabinoids Screen Results



Batch results D:\MassHunter\Data\2021\AM 25-26\032321 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 3/24/2021 8:51:06 AM

Instrument	Instrument 1	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	AM 26 THCS.m	Operator	Celena Shrum
Sample Position	P1-G1	Comment	
Injection Volume	10		
Acq. Date-Time	3/23/2021 4:33:21 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	22166	28145	101.8881 ng/ml
THC-COOH	2.605	1938838	387325	249.1940 ng/ml
THC-OH	2.534	251718	1602513	101.1288 ng/ml