REVIEWED
By Sarah Collins at 2:01 pm, Apr 28, 2021

4/28/2021

Worklist: 4930

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-3163	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1131	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1486	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1512	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1525	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1586	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1590	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1027	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1085	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1088	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1089	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1091	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1114	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1134	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1140	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1142	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1165	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1174	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1175	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1176	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1177	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 4930

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2021-1180	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1181	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1207	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1209	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1224	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: 04/21/2021
Plate lot#: 201206
Mobile phase A: 10mM Amm Form
Instant Buffer I
Blank Blood Lot: Lampire 20L20724
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 06/06/2021
Mobile phase B: 0.1% Formic Acid in MeOH
Ethyl Acetate LC Methanol
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

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:

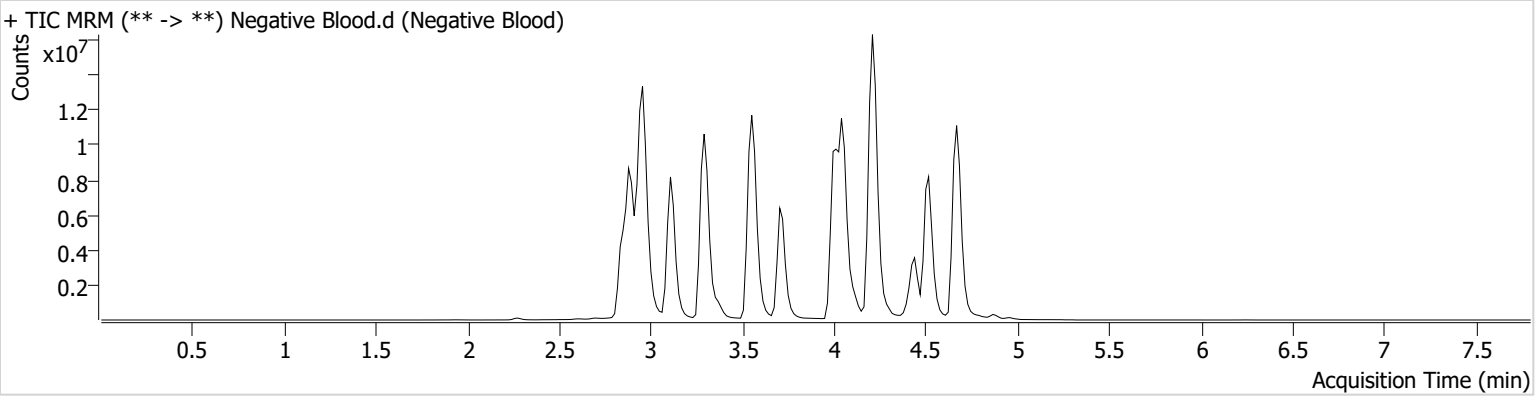
	1	2	3	4	5	6	7	8	9	10	11	12
A					Blood NEG	P2021-1085-1	P2021-1142-1	P2021-1207-2				
B	CAL				M2020-3163-1	P2021-1088-1	P2021-1165-2	P2021-1209-1				
C					M2021-1486-3	P2021-1089-1	P2021-1174-1	P2021-1224-1				
D					M2021-1512-2	P2021-1091-1 (B)	P2021-1175-1					
E					M2021-1525-1	P2021-1114-1	P2021-1176-1					
F					M2021-1586-2	M2021-1131-2	P2021-1177-1					
G					M2021-1590-2	P2021-1134-1	P2021-1180-1					
H					P2021-1027-1	P2021-1140-1	P2021-1181-1					

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update	4/28/2021 7:35:10 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-A5	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/21/2021 7:54:13 PM		
Sample Info.			

Sample Chromatogram

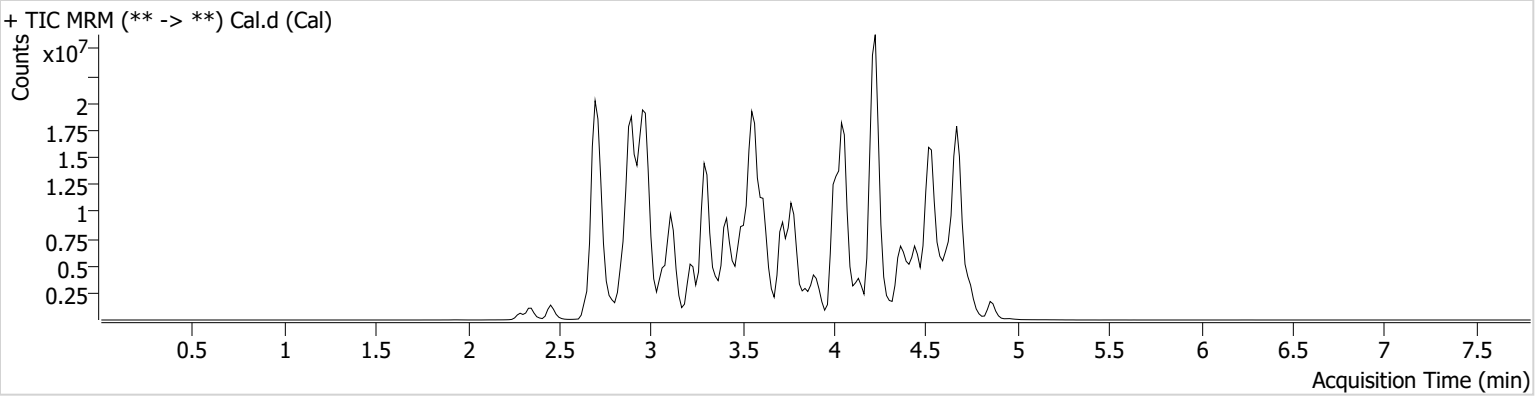


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/28/2021 7:35:10 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	4/21/2021 7:45:37 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.892	94967	43747.74	73432.65	2782063	10.0000
7-aminoclonazepam	3.584	1566260	363.75	432.65	6068395	10.0000
7-aminoflunitrazepam	3.783	2224665	485.15	221.05	6068395	10.0000
Acetyl Fentanyl	3.810	170755	50.10	74403.30	35512896	10.0000
Acetyl Norfentanyl	2.886	500201	755.79	156.46	35512896	10.0000
a-hydroxyalprazolam	4.531	745765	1299.38	568.89	6068395	10.0000
alpha-hydroxymidazolam	4.606	3807458	606.13	710.88	6068395	10.0000
Alpha-PHP	3.788	4241266	20294.83	1166.67	35512896	10.0000
alpha-PVP	3.513	6624226	1620.89	1030.08	12490160	10.0000
Alprazolam	4.626	5778100	1437.37	413.24	35416722	10.0000
Amitriptyline	4.415	277547	60.02	69.42	1147952	10.0000
Amphetamine	2.890	4547367	1147.78	728.84	12490160	10.0000
Benzoylecgonine	3.385	507796	709.64	134.74	912009	10.0000
Brompheniramine	4.010	39985	105.05	410.03	33221410	10.0000
Buprenorphine	4.465	447504	650.42	44144.80	1974856	10.0000
Bupropion	3.727	5078699	1087.21	369.27	19250406	10.0000
Carbamazepine	4.250	16779109	∞	1765.70	1635157	10.0000
Carisoprodol	4.233	2301602	1584.66	131.62	14308347	10.0000
Chlordiazepoxide	4.750	2952814	479.90	1267.92	35416722	10.0000
Chlorpheniramine	3.923	4134680	9512.64	61.28	33221410	10.0000
Citalopram	4.055	2001687	803.24	379.62	33221410	10.0000
Clomipramine	4.609	425968	5779.85	188.43	33221410	10.0000
Clonazepam	4.455	3001272	1853.09	370.43	35416722	10.0000
Clonazolam	4.375	3363502	2212698.56	1264.51	35416722	10.0000
Cocaethylene	3.765	7354933	9072.00	6345.59	36451792	10.0000
Cocaine	3.552	8423419	893.03	1289.73	36451792	10.0000
Codeine	2.790	691175	1331.19	1297.12	15856165	10.0000
Cyclobenzaprine	4.339	439328	259.72	8.78	1147952	10.0000
Desipramine	4.355	683874	281.17	282.71	1147952	10.0000
Dextromethorphan	4.063	1030016	3641.81	358.97	5474411	10.0000
Dextrorphan	3.356	3554987	7714.20	1444.40	5474411	10.0000
Diazepam	4.859	2149426	537.46	950.68	35416722	10.0000
Dihydrocodeine	2.728	1642745	2119.93	737.45	15856165	10.0000
Diphenhydramine	4.017	5896101	1275.83	673.33	33221410	10.0000

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.122	496957	128.14	21.59	9774924	10.0000
Doxylamine	3.616	14104344	845.55	12686.87	5474411	10.0000
EDDP	4.061	1097928	378.83	574.43	2533057	10.0000
Estazolam	4.535	12696317	2179.30	2795.81	35416722	10.0000
Etizolam	4.636	742284	235926.73	1260718.73	35416722	10.0000
Fentanyl	4.054	70249	26.95	23959.41	5315776	10.0000
Flualprazolam	4.484	2167852	2596.35	949945.39	35416722	10.0000
Flunitrazepam	4.579	5920864	1122.43	380238.13	35416722	10.0000
Fluoxetine	4.319	335287	397.84	25.54	934957	10.0000
Flurazepam	4.145	2908103	1050.22	946663.62	35416722	10.0000
Hydrocodone	2.988	2475869	798.73	669.18	15856165	10.0000
Hydromorphone	2.457	2238227	34996.03	1329.28	340749	10.0000
Imipramine	4.368	1042916	1637.14	1105.65	1147952	10.0000
Ketamine	3.451	5915812	1266.76	356.79	24027550	10.0000
Lamotrigine	3.572	434399	675.79	539.38	33221410	10.0000
Levamisole	2.932	4307035	15329.15	2095.04	36451792	10.0000
Levetiracetam	2.659	2260714	636.68	2397.32	33221410	10.0000
Lorazepam	4.439	1211583	989.78	187.92	35416722	10.0000
Maprotiline	4.415	177371	40.23	391.35	1147952	10.0000
MDA	2.994	3646287	1449.04	404.49	31840552	10.0000
MDEA	3.223	5953232	9691.60	582.69	31840552	10.0000
MDMA	3.070	7833162	767.26	476.26	31840552	10.0000
Meperidine	3.572	3143120	15237.14	341.43	5474411	10.0000
Meprobamate	3.668	1616319	481.22	156.09	14308347	10.0000
Methadone	4.380	2897013	986.84	221.49	2533057	10.0000
Methamphetamine	2.981	9176136	690.61	322.90	31840552	10.0000
Methocarbamol	3.589	1488966	372.88	301.30	2533057	10.0000
Methylphenidate	3.497	13443178	1633.53	151.99	24962162	10.0000
Metoprolol	3.418	974486	501.26	1000923.82	5474411	10.0000
Midazolam	4.745	637284	526190.58	348696.10	35416722	10.0000
Mirtazapine	3.847	2212149	28853.56	1547.17	5474411	10.0000
Mitragynine	4.159	115375	110527.26	217108.86	5474411	10.0000
Morphine	2.292	432370	∞	357.69	340749	10.0000
Norbuprenorphine	3.807	43983	32154.49	48942.48	1974856	10.0000
Nordiazepam	4.707	2833677	1138.90	989.47	35416722	10.0000
Norfentanyl	3.313	9444964	929.81	773.32	35512896	10.0000
Norhydrocodone	2.913	66604	115.18	125.07	340749	10.0000
Norketamine	3.529	869410	389.95	688.75	24027550	10.0000
Normeperidine	3.574	2438946	1077.69	557.91	33221410	10.0000
Noroxycodone	2.865	1748004	327.25	334.61	24027550	10.0000
Nortriptyline	4.402	199948	359.46	28.08	1147952	10.0000
O-desmethyl-tramadol	2.899	11976702	1151.36	2521.96	33221410	10.0000
Olanzapine	3.750	193583	105588.48	215.18	1635157	10.0000
Oxazepam	4.521	5688282	1174.76	336.13	23665114	10.0000
Oxycodone	2.909	5297919	642.23	668.80	24027550	10.0000
Oxymorphone	2.347	2268240	252.53	148.02	340749	10.0000
Paroxetine	4.331	44810	81.08	1592.97	934957	10.0000
Phenazepam	4.651	4640988	24704.69	33173.39	35416722	10.0000
Phencyclidine	3.895	5267898	1137.68	1485.10	5474411	10.0000
Phentermine	3.133	2191907	127.47	17.83	24962162	10.0000
Phenytoin	4.141	2620408	1544.14	1028.43	1635157	10.0000
Promethazine	4.306	1225590	139.47	192.45	33221410	10.0000
Pseudoephedrine	2.705	54324094	7447.93	6908.81	31840552	10.0000
Quetiapine	4.405	2397789	911.93	427786.48	41602959	10.0000
Sertraline	4.550	155806	166281.65	357.26	934957	10.0000
Sufentanil	4.375	48810	219.44	36.04	35512896	10.0000
Tapentadol	3.422	7901153	651.88	532.52	24027550	10.0000
Temazepam	4.689	9592366	2478.99	297.98	35416722	10.0000
Tramadol	3.402	13539092	3627.09	143.15	33221410	10.0000
Trazodone	4.482	2087963	1863.27	1347.49	9774924	10.0000

Cal

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.784	9123601	1300.80	1028.06	934957	10.0000
Zaleplon	4.351	5753109	23022454.00	146326.08	41602959	10.0000
Zolpidem	4.227	14695715	5320298.79	13222.46	41602959	10.0000
Zopiclone	4.052	1015139	344949.55	276041.58	5628780	10.0000

Cal

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

Extraction Date: 04/21/2021
Plate lot#: IDP-108-2-210412
Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: Lampire 20L20724
LCMS-QQQ ID: 069901

Analyst: Celena Shrum
Plate Expiration: 10/12/2021
Mobile phase B: 0.1% Formic acid in Acetonitrile
Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

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, 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: Curve Limitations: THC 1-100, c-THC 5-250, and THC-OH 5-100

	1	2	3	4	5	6
a	cal 1ng	Blood NC	P2021-1085-1	P2021-1142-1	P2021-1207-2	
b	cal 3 ng	M2020-3163-1	P2021-1088-1	P2021-1165-2	P2021-1209-1	
c	cal 5 ng	M2021-1486-3	P2021-1089-1	P2021-1174-1	P2021-1224-1	
d	cal 10ng		P2021-1091-1 (B)	P2021-1175-1	M2021-1512-2	
e	cal 25 ng	M2021-1525-1	P2021-1114-1	P2021-1176-1		
f	cal 50 ng	M2021-1586-2	M2021-1131-2	P2021-1177-1		
g	cal 100 ng	M2021-1590-2	P2021-1134-1	P2021-1180-1		
h	QC 1	P2021-1027-1	P2021-1140-1	P2021-1181-1		

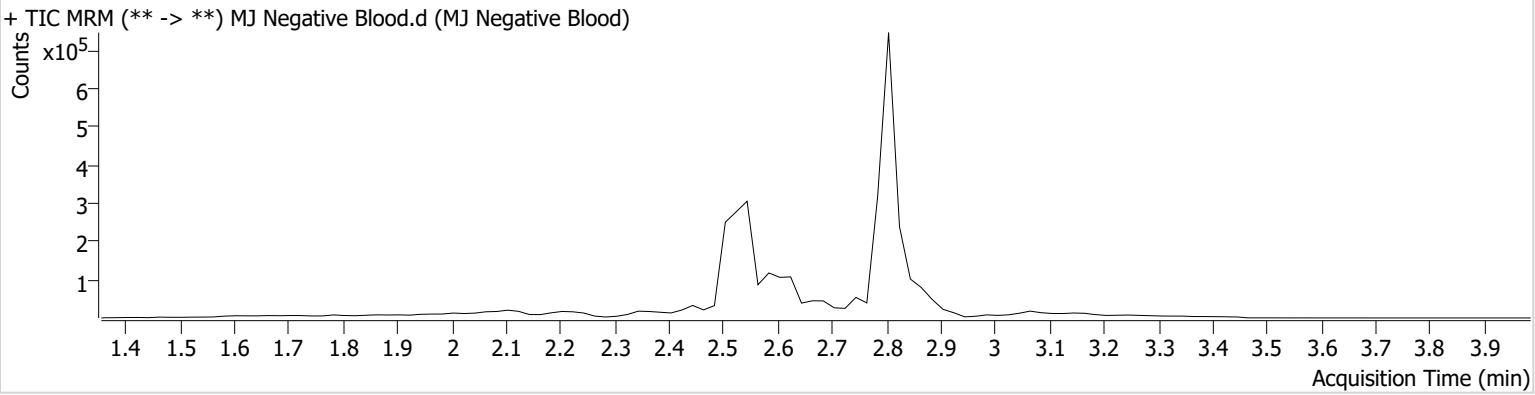
M2021-1512-2 moved from D2 on extraction plate to D5 during extraction

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update	4/28/2021 8:09:37 AM

Instrument	Instrument 1	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/21/2021 3:31:34 PM		
Sample Info.			

Sample Chromatogram



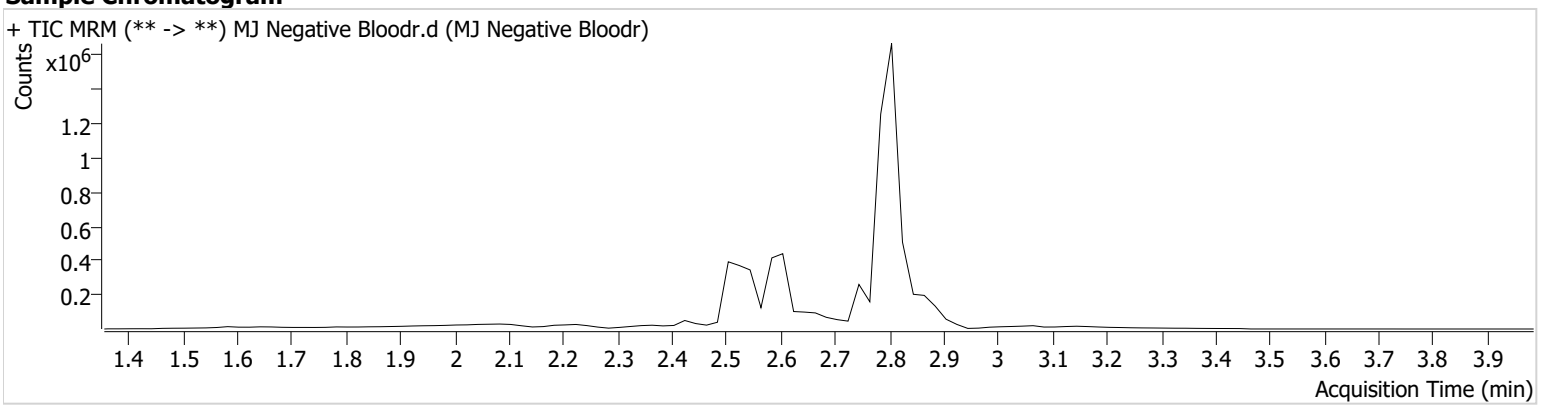
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 AM

Instrument	Instrument 1	**Data File**	MJ Negative Bloodr.d
Type	Sample	**Sample**	MJ Negative Bloodr
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/28/2021 7:50:00 AM		
Sample Info.			

P2021-1142-1 was reinjected due to low ISTD responses. The negative blank was reinjected prior to the reinject since it had been several days since the sample was originally injected.

Sample Chromatogram

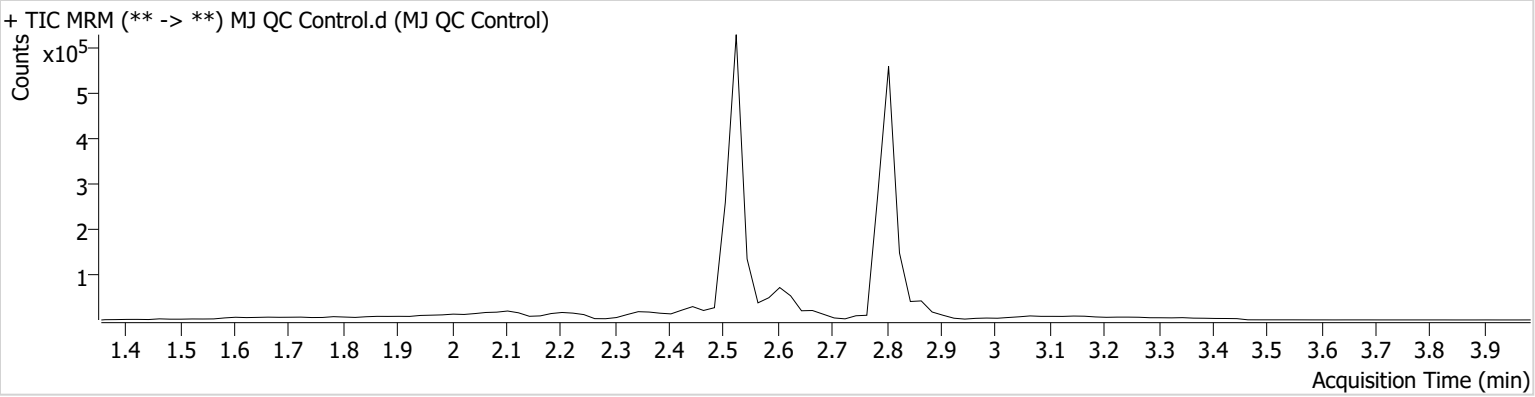


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 3:18:29 PM		
Sample Info.			

Sample Chromatogram



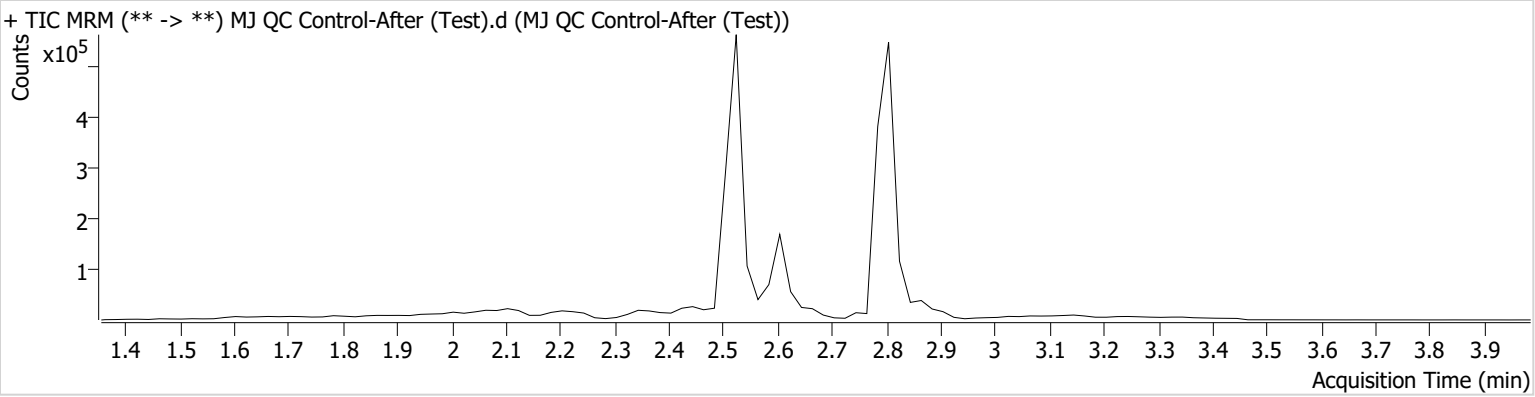
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1685	25049	5.4262	ng/ml
THC-COOH	2.607	32835	90723	15.9094	ng/ml
THC-OH	2.534	9648	1169851	7.1403	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 6:43:00 PM		
Sample Info.			

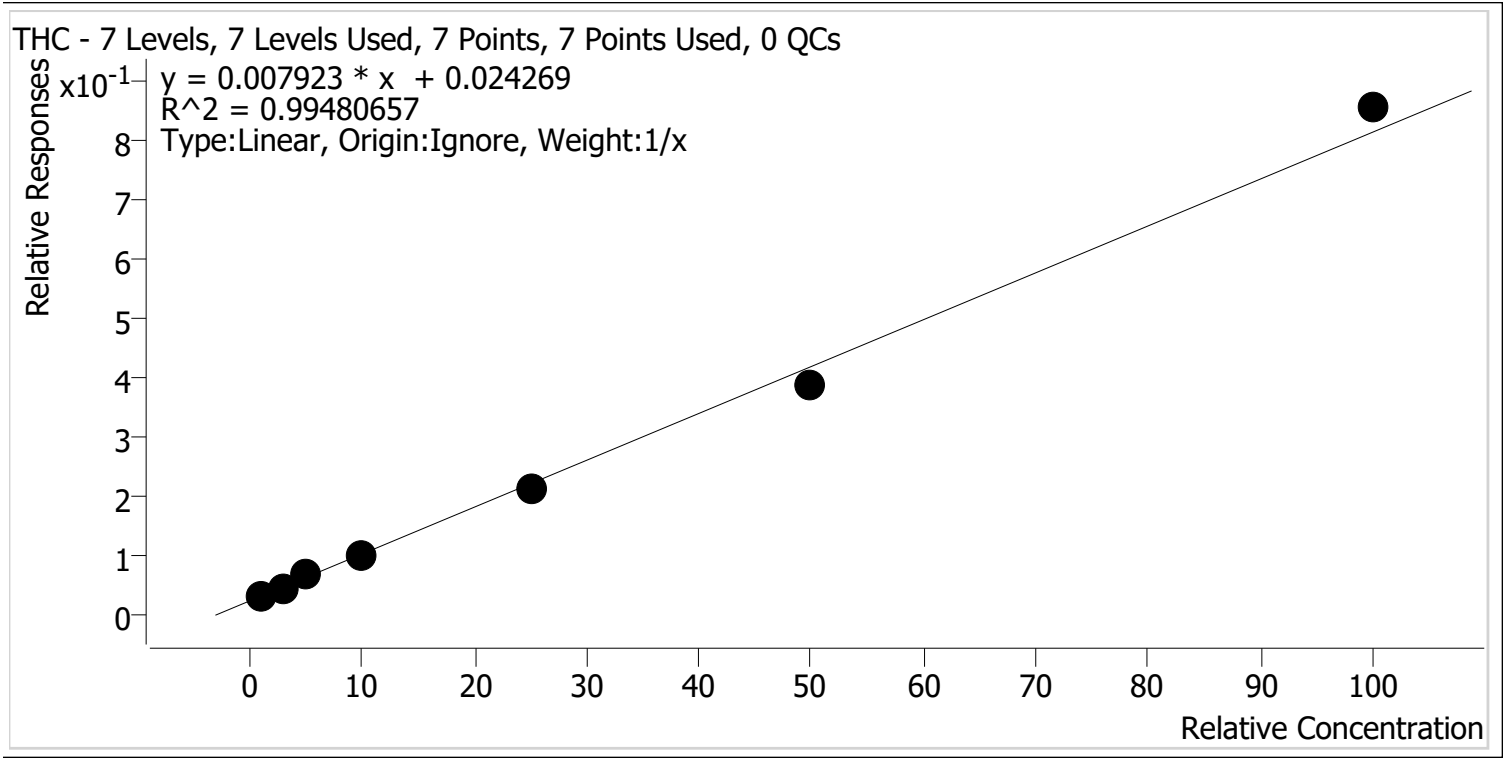
Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1573	19795	6.9639	ng/ml
THC-COOH	2.607	36760	200004	7.6777	ng/ml
THC-OH	2.534	8780	1075204	7.0948	ng/ml

AM #26 Cannabinoids Screen Calibration Curve Report

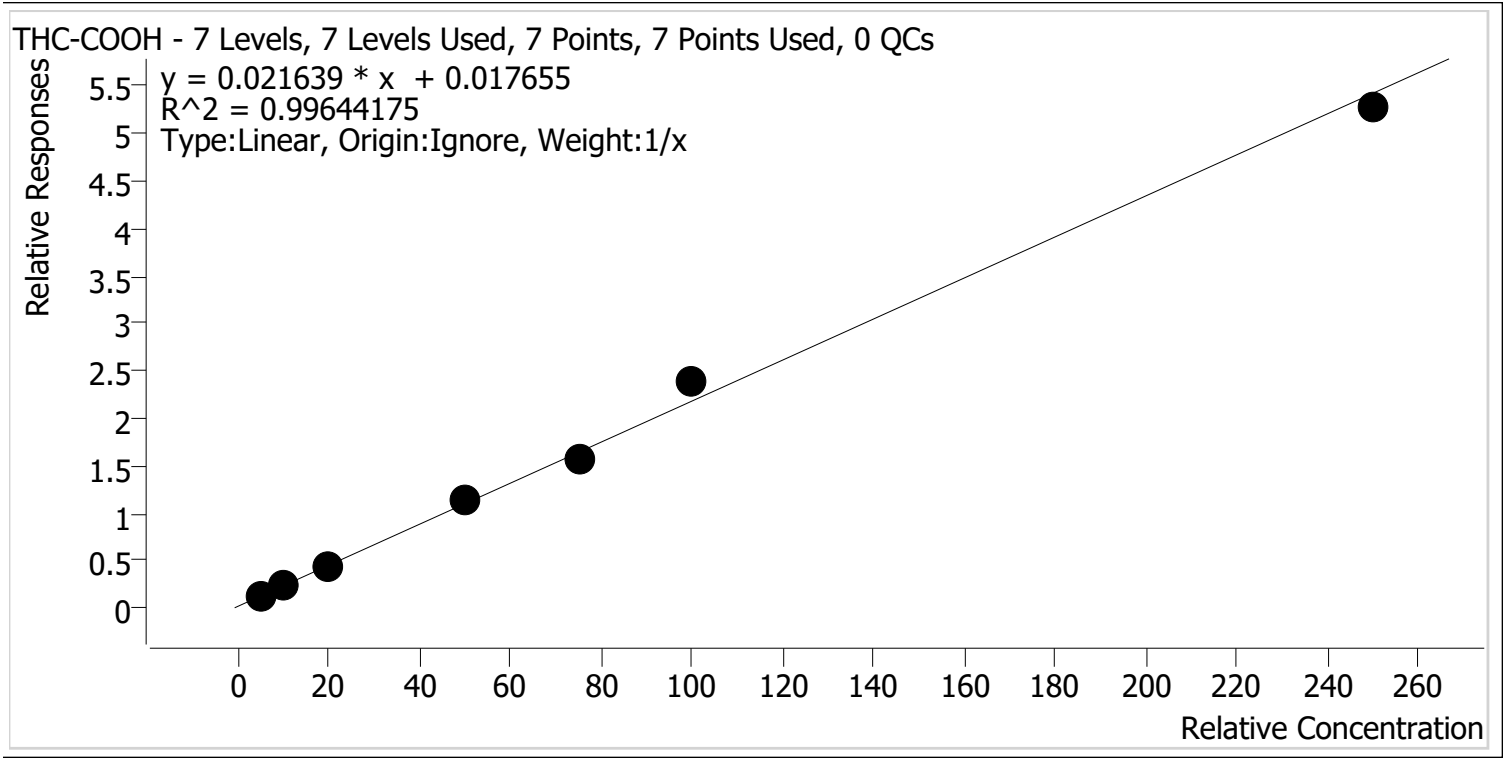
Batch results	D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	4/28/2021 8:09 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	110.2
MJ Cal 2	2	✔	3.0	2.6	87.1
MJ Cal 3	3	✔	5.0	5.8	115.7
MJ Cal 4	4	✔	10.0	9.4	94.1
MJ Cal 5	5	✔	25.0	24.0	95.9
MJ Cal 6	6	✔	50.0	45.9	91.9
MJ Cal 7	7	✔	100.0	105.2	105.2

AM #26 Cannabinoids Screen Calibration Curve Report

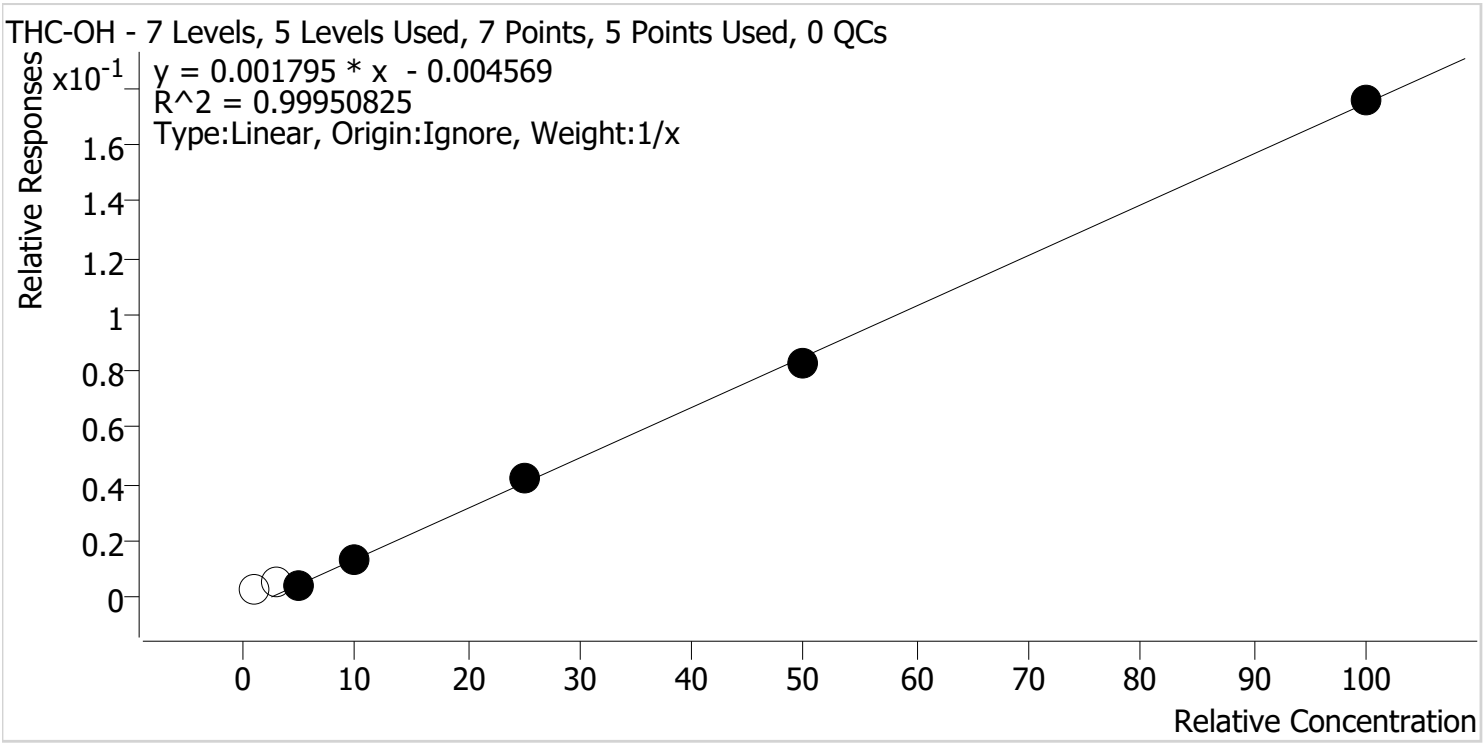
Batch results	D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	4/28/2021 8:09 AM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	5.1	101.7
MJ Cal 2	2	✔	10.0	9.8	98.2
MJ Cal 3	3	✔	20.0	18.9	94.7
MJ Cal 4	4	✔	50.0	51.0	102.0
MJ Cal 5	5	✔	75.0	72.2	96.3
MJ Cal 6	6	✔	100.0	110.0	110.0
MJ Cal 7	7	✔	250.0	243.0	97.2

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Last Cal. Update	4/28/2021 8:09 AM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



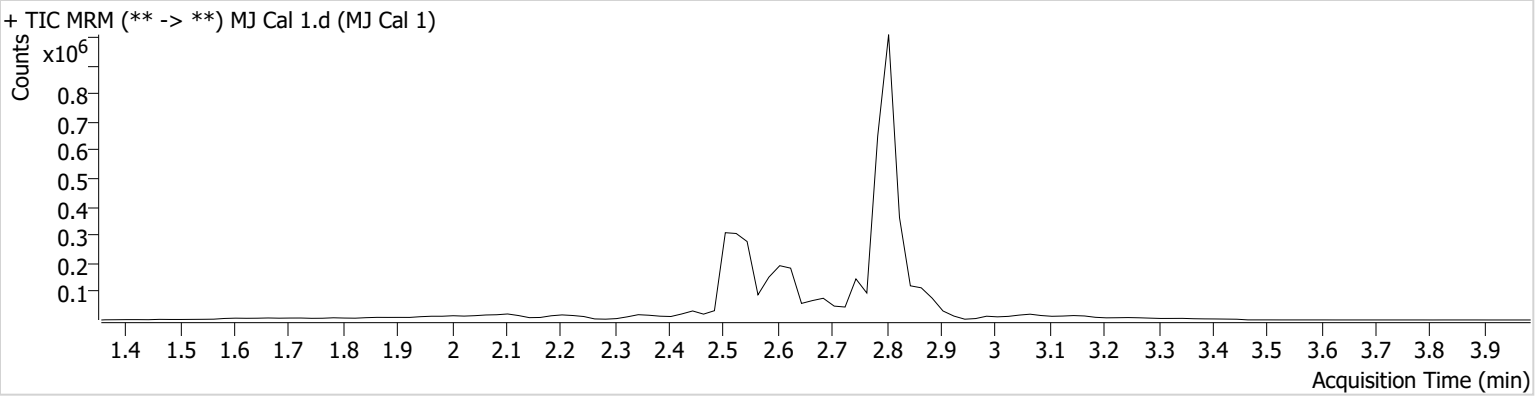
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✗	1.0	4.2	418.8
MJ Cal 2	2	✗	3.0	5.2	173.4
MJ Cal 3	3	✔	5.0	4.9	97.7
MJ Cal 4	4	✔	10.0	10.1	101.4
MJ Cal 5	5	✔	25.0	25.7	102.9
MJ Cal 6	6	✔	50.0	48.7	97.5
MJ Cal 7	7	✔	100.0	100.5	100.5

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 AM

Instrument	Instrument 1	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	AM 26 THCS.m	**Operator**	Celena Shrum
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/21/2021 2:32:25 PM		
Sample Info.			

Sample Chromatogram



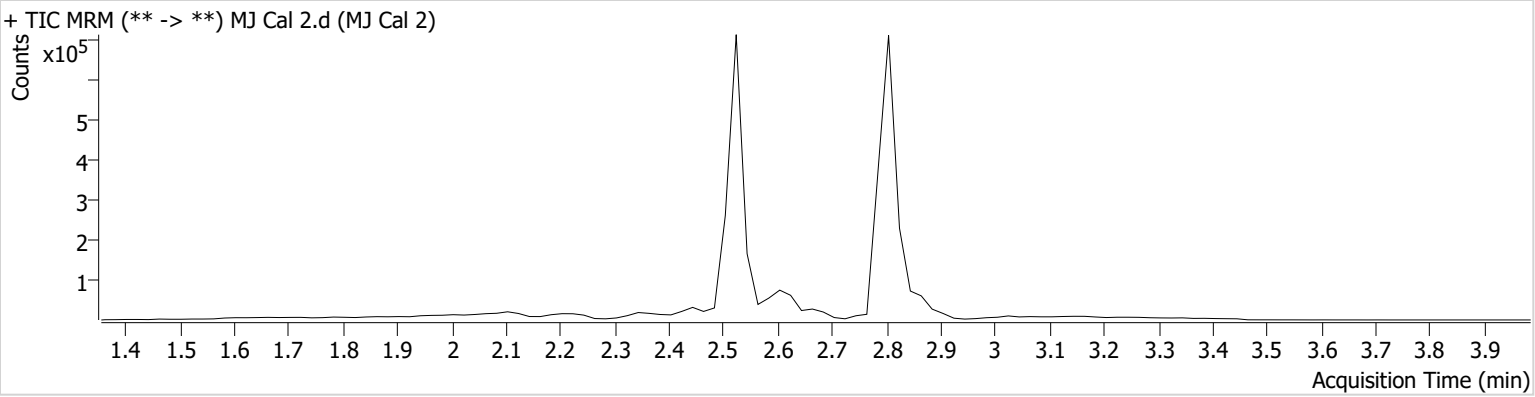
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2342	70967	1.1024	ng/ml	**Low**
THC-COOH	2.607	44219	346434	5.0827	ng/ml	
THC-OH	2.534	3167	1074336	4.1879	ng/ml	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 2:39:08 PM		
Sample Info.			

Sample Chromatogram



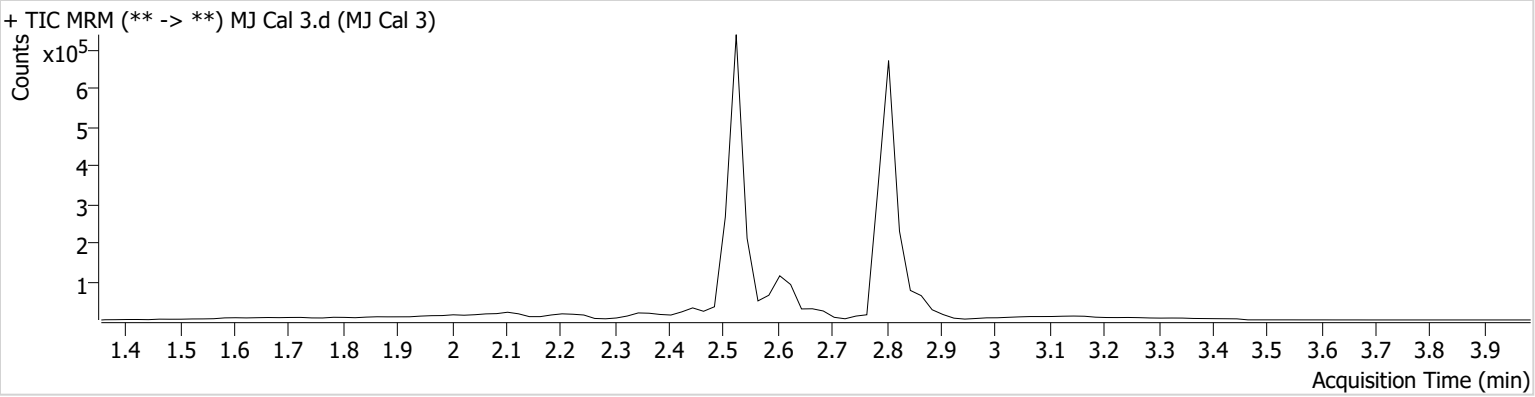
Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	1492	33179	2.6126	ng/ml	Low
THC-COOH	2.607	28580	124139	9.8233	ng/ml	
THC-OH	2.534	6351	1331456	5.2032	ng/ml	

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 2:45:42 PM		
Sample Info.			

Sample Chromatogram



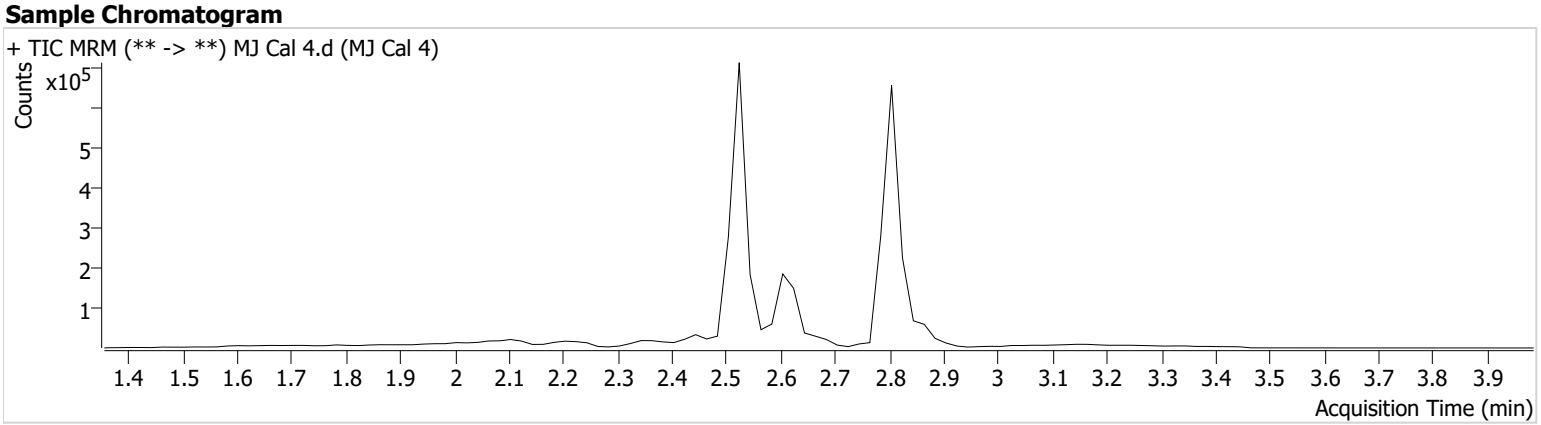
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	2462	35118	5.7836	ng/ml
THC-COOH	2.607	60076	140573	18.9339	ng/ml
THC-OH	2.514	5909	1408160	4.8834	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 2:52:13 PM		
Sample Info.			

Sample Chromatogram



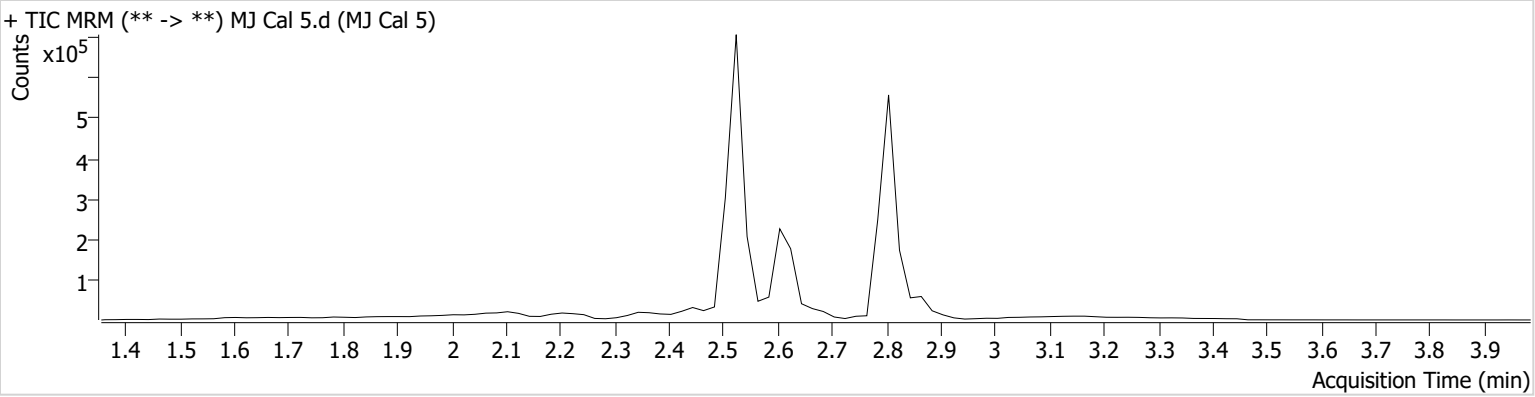
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	3408	34497	9.4068	ng/ml
THC-COOH	2.607	130822	116715	50.9818	ng/ml
THC-OH	2.534	17806	1305513	10.1444	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 2:58:44 PM		
Sample Info.			

Sample Chromatogram



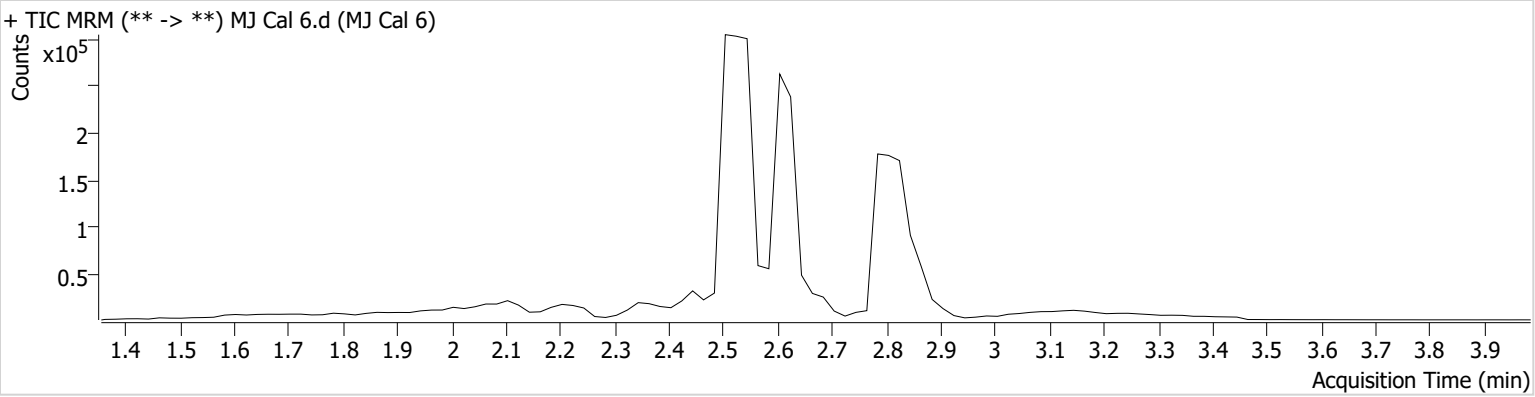
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	6999	32679	23.9686	ng/ml
THC-COOH	2.607	167356	105881	72.2277	ng/ml
THC-OH	2.534	50381	1210886	25.7254	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 3:05:18 PM		
Sample Info.			

Sample Chromatogram



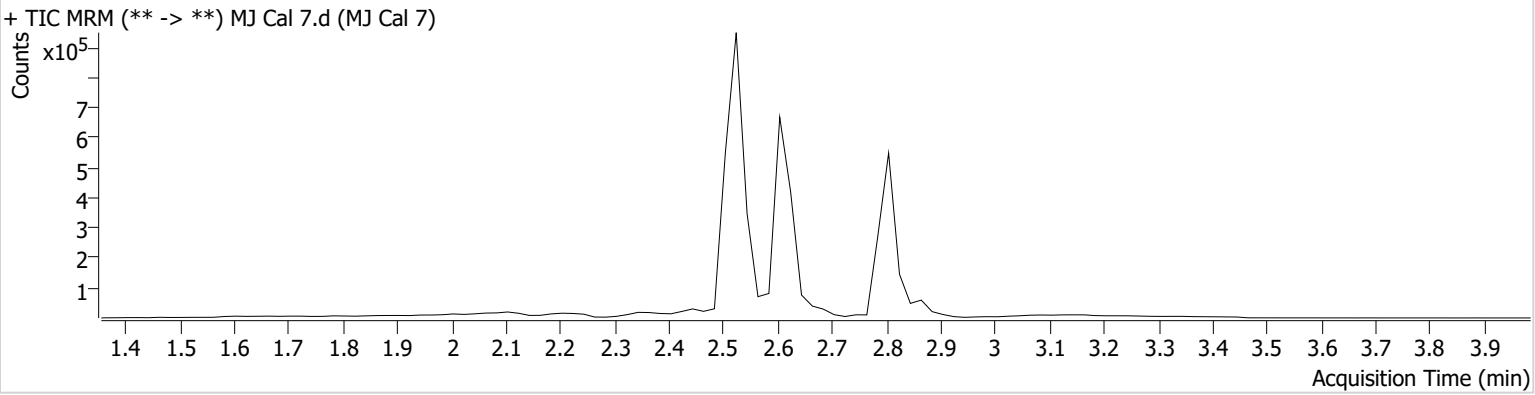
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	26771	68970	45.9290	ng/ml
THC-COOH	2.607	215162	89730	109.9959	ng/ml
THC-OH	2.514	54245	654221	48.7389	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\042121 AM 25 26 CS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/28/2021 8:09:37 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	4/21/2021 3:11:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	22631	26384	105.1970	ng/ml
THC-COOH	2.607	516191	97856	242.9548	ng/ml
THC-OH	2.534	211870	1204916	100.5078	ng/ml