REVIEWED
By Celena Shrum at 12:45 pm, Apr 30, 2021

4/23/2021

Worklist: 4923

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2021-0870	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2021-1056	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2021-1439	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2021-1444	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
M2021-1522	2	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-0703	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-0712	3	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-0732	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-0961	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-0980	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1023	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1024	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1090	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1097	1	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1097	2	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1097	3	URINE	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ
P2021-1135	1	UCK	AM 25/AM 26 Urine MultiDrug/THC Screen by LC-QQQ

There was insufficient sample to run cases P2021-0980-1 and P2021-1024-1 on AM 26.

SC

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

Extraction Date: 04/23/21 Analyst: Sarah Collins
Plate lot#: IDP-120-201206 Plate Expiration: 06/06/21

Mobile phase A: 10mM Amm Form Instant Buffer I
Mobile phase B: 0.1% Formic Acid in MeOH Ethyl Acetate LC Methanol
Blank Blood Lot: Lampire 20L20724
Blank Urine Lot: POCO31319
LCMS-QQQ ID: 069901
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. 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: #16**
☒ 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: 300 uL
☒ 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: *The run stopped before running any samples due to the sampler wasn't able to grab the analytical plate. The sampler error was fixed and samples were injected 4/24/21.*

&c

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1										p2021-1023-1	m2021-1439-2
B	IS + Cal. 1										p2021-0980-1	m2021-1056-2
C										p2021-1135-1	p2021-0961-1	m2021-0870-3
D										p2021-1097-3	p2021-0732-1	external urine
E										p2021-1097-2	p2021-0712-3	negative urine
F										p2021-1097-1	p2021-0703-1	negative blood
G										p2021-1090-1	m2021-1522-2	IS + Cal. 1
H										p2021-1024-1	m2021-1444-2	IS + Cal. 1

8C

Idaho State Police Forensic Services

AM #25 Blood and Urine Multi-Drug Screen by LCMS-QQQ And AM #28 Urine Multi-Drug Confirmatory Analysis by LCMS-QQQ—Panel 1

Methanol External Control Solution (Lot: 031820)

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

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

Urine External Control Solution (Lot: WS052220)

200 ul of methanol external control solution was added to 9800 ul of urine.
Approximately 100ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Urine	Pocatello Lab	POC031319
Methanol External Control Solution		031820
Prepared:	05/22/20	
Prepared by:	Celena Shrum	
Expires:	N/A	

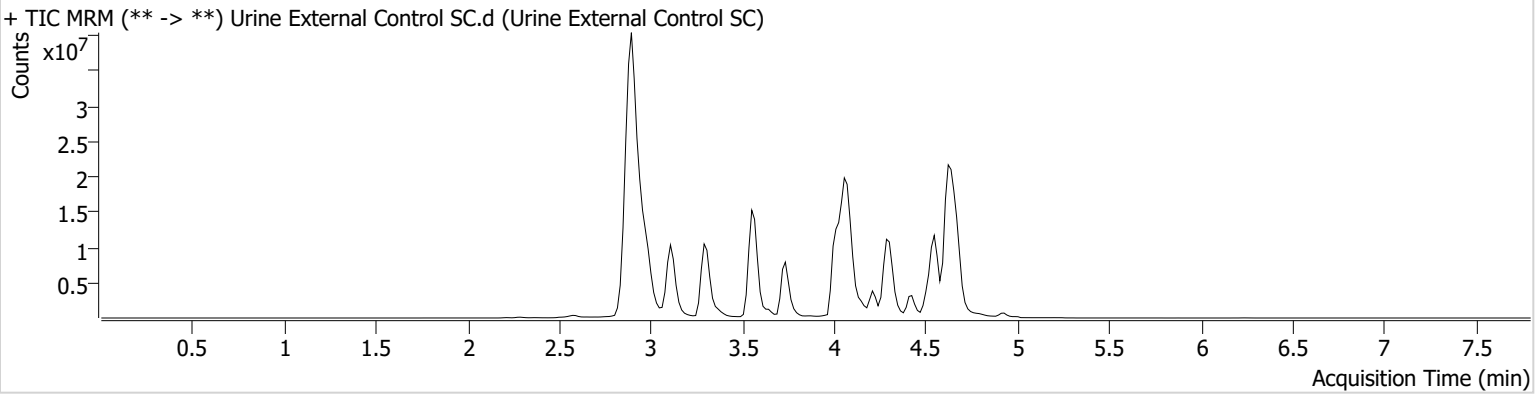
SC

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 4/26/2021 4:15:12 PM

Instrument	Instrument 1	**Data File**	Urine External Control SC.d
Type	Sample	**Sample**	Urine External Control SC
Acq. Method	AM 25 MDS.m	**Operator**	Sarah Collins
Sample Position	P6-D12	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/24/2021 2:35:16 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	36192051	5309.14	9542.56	31914453	71.3127
Amphetamine	2.890	37545759	1119.62	1535.99	11763362	91.0967
O-desmethyl-tramadol	2.915	51452816	18210.81	1377.25	48437977	28.2339

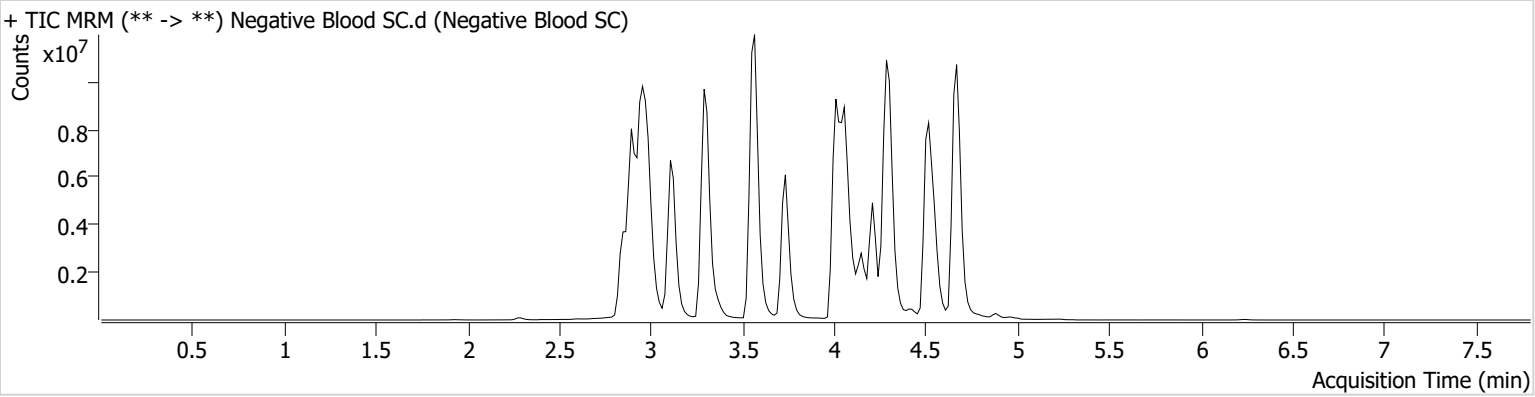
SC

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update	4/26/2021 4:15:12 PM

Instrument	Instrument 1	**Data File**	Negative Blood SC.d
Type	Sample	**Sample**	Negative Blood SC
Acq. Method	AM 25 MDS.m	**Operator**	Sarah Collins
Sample Position	P6-F12	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/24/2021 2:01:38 PM		
Sample Info.			

Sample Chromatogram



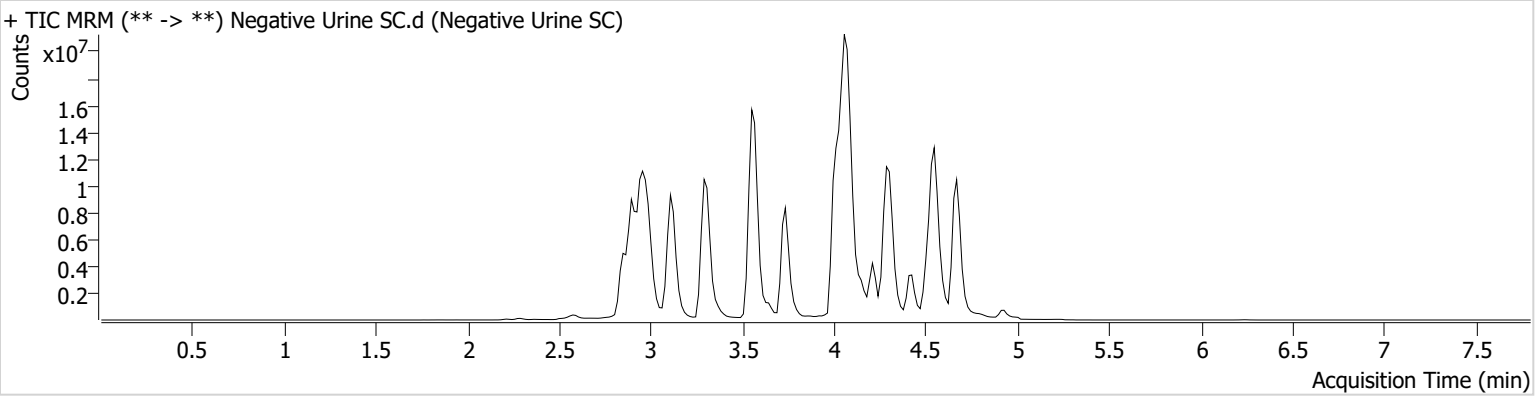
SC

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update	4/26/2021 4:15:12 PM

Instrument	Instrument 1	**Data File**	Negative Urine SC.d
Type	Sample	**Sample**	Negative Urine SC
Acq. Method	AM 25 MDS.m	**Operator**	Sarah Collins
Sample Position	P6-E12	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/24/2021 2:18:27 PM		
Sample Info.			

Sample Chromatogram



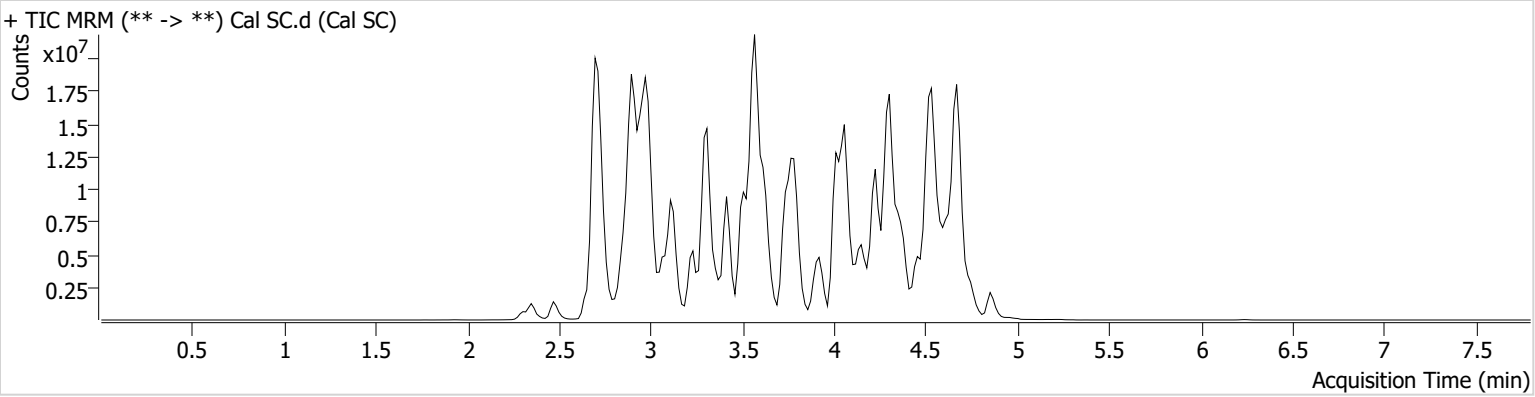
SC

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 25.batch.bin
Calibration Last Update 4/26/2021 4:15:12 PM

Instrument	Instrument 1	**Data File**	Cal SC.d
Type	Cal	**Sample**	Cal SC
Acq. Method	AM 25 MDS.m	**Operator**	Sarah Collins
Sample Position	P6-H12	**Comment**	
Injection Volume	5		
Acq. Date-Time	4/24/2021 1:44:37 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.907	103249	163.21	83479.61	3064120	10.0000
7-aminoclonazepam	3.584	2309664	823.21	921160.09	9439035	10.0000
7-aminoflunitrazepam	3.783	3538341	583.35	707999.40	9439035	10.0000
Acetyl Fentanyl	3.856	141300	52.61	67302.76	36270043	10.0000
Acetyl Norfentanyl	2.886	544557	1624.34	78.58	36270043	10.0000
a-hydroxyalprazolam	4.531	794568	88.78	775649.75	9439035	10.0000
alpha-hydroxymidazolam	4.606	3871895	675.43	1171247.15	9439035	10.0000
Alpha-PHP	3.803	4630541	11547.05	1014.30	36270043	10.0000
alpha-PVP	3.529	6829557	2319.11	433.40	12633607	10.0000
Alprazolam	4.626	5676372	670.97	2088.67	35695357	10.0000
Amitriptyline	4.431	141606	22.42	22.70	614799	10.0000
Amphetamine	2.890	4426436	951.38	4756.33	12633607	10.0000
Benzoylecgonine	3.385	452266	61.24	1874.33	806259	10.0000
Brompheniramine	4.026	32611	22.38	170.23	32368608	10.0000
Buprenorphine	4.588	415524	1931.47	65427.81	1906324	10.0000
Bupropion	3.758	5709141	554.49	403.58	21041155	10.0000
Carbamazepine	4.234	17866628	∞	662.84	1901921	10.0000
Carisoprodol	4.233	2367614	1127.04	164.91	13774205	10.0000
Chlordiazepoxide	4.750	2606779	2012.94	1625.55	35695357	10.0000
Chlorpheniramine	3.923	3550397	665.54	16.18	32368608	10.0000
Citalopram	4.055	1795066	383.29	202.45	32368608	10.0000
Clomipramine	4.624	161948	22.99	370.19	32368608	10.0000
Clonazepam	4.455	3593122	1229.73	∞	35695357	10.0000
Clonazolam	4.375	3792473	2266331.99	846791.57	35695357	10.0000
Cocaethylene	3.765	7428517	6802917.63	200350.27	35555738	10.0000
Cocaine	3.567	8200291	9044115.28	430.32	35555738	10.0000
Codeine	2.821	702565	1615.69	872.61	16691677	10.0000
Cyclobenzaprine	4.339	251523	181371.93	5.72	614799	10.0000
Desipramine	4.370	382492	473.14	172.82	614799	10.0000
Dextromethorphan	4.063	825787	2084.44	90827.36	4459624	10.0000
Dextrorphan	3.356	3319945	6273844.03	651.40	4459624	10.0000
Diazepam	4.859	2772298	4082.85	675.93	35695357	10.0000
Dihydrocodeine	2.743	1718969	547.75	668.99	16691677	10.0000
Diphenhydramine	4.017	5270206	14357.46	500.32	32368608	10.0000

SC

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.138	328624	101.41	15.11	8740067	10.0000
Doxylamine	3.632	12485910	16159.04	333.50	4459624	10.0000
EDDP	4.061	1142883	246.24	302.52	2631857	10.0000
Estazolam	4.535	13374497	3026.74	836.41	35695357	10.0000
Etizolam	4.636	687656	494461.16	1317061.64	35695357	10.0000
Fentanyl	4.100	46590	15.05	468.02	3927967	10.0000
Flualprazolam	4.484	2115115	1881495.08	1678857.49	35695357	10.0000
Flunitrazepam	4.579	6422431	2302.67	781713.14	35695357	10.0000
Fluoxetine	4.319	152361	165.07	3.57 **Low**	340925	10.0000
Flurazepam	4.175	2515059	1962857.25	410835.66	35695357	10.0000
Hydrocodone	3.003	2582164	967.75	570.61	16691677	10.0000
Hydromorphone	2.473	2276587	732.09	1011.01	329763	10.0000
Imipramine	4.383	680773	244.47	22.08	614799	10.0000
Ketamine	3.513	6065584	1084.50	306.88	24312780	10.0000
Lamotrigine	3.587	430733	443.30	1746.41	32368608	10.0000
Levamisole	2.963	4591708	1687.56	471.52	35555738	10.0000
Levetiracetam	2.659	2018221	181.39	722.14	32368608	10.0000
Lorazepam	4.439	1426047	254.76	1217.72	35695357	10.0000
Maprotiline	4.431	95797	11.69	16.93	614799	10.0000
MDA	2.994	3273590	1019.65	357.80	31167628	10.0000
MDEA	3.223	5469692	469.58	∞	31167628	10.0000
MDMA	3.070	7610060	29975.08	619.50	31167628	10.0000
Meperidine	3.588	2869296	5008.39	260.93	4459624	10.0000
Meprobamate	3.668	1134681	722.85	163.37	13774205	10.0000
Methadone	4.380	2498416	1058.59	531.32	2631857	10.0000
Methamphetamine	2.996	8999905	3916.77	20999.92	31167628	10.0000
Methocarbamol	3.573	1082622	703.05	47.83	2631857	10.0000
Methylphenidate	3.497	13677992	1423.46	142.65	23203106	10.0000
Metoprolol	3.418	940203	305.51	26414.23	4459624	10.0000
Midazolam	4.760	617865	372.01	1011.76	35695357	10.0000
Mirtazapine	3.924	2024537	1790.01	2022.52	4459624	10.0000
Mitragynine	4.190	117101	64701.63	151564.71	4459624	10.0000
Morphine	2.307	434054	1538.24	1628.51	329763	10.0000
Norbuprenorphine	3.822	40698	18014.72	32586.69	1906324	10.0000
Nordiazepam	4.707	2831852	621.73	1180.67	35695357	10.0000
Norfentanyl	3.313	10024290	12146.83	1018.34	36270043	10.0000
Norhydrocodone	2.929	65311	45.20	16.32	329763	10.0000
Norketamine	3.606	886048	208.10	45131.79	24312780	10.0000
Normeperidine	3.590	2167122	1050.96	1257.41	32368608	10.0000
Noroxycodone	2.881	2081199	151.78	387.11	24312780	10.0000
Nortriptyline	4.402	88834	632.24	24.65	614799	10.0000
O-desmethyl-tramadol	2.915	12177991	24178.54	440.30	32368608	10.0000
Olanzapine	3.796	253394	428.81	930.44	1901921	10.0000
Oxazepam	4.521	5939887	3105.13	229.33	24579070	10.0000
Oxycodone	2.909	5618019	1080.44	1736.71	24312780	10.0000
Oxymorphone	2.347	2360970	306.09	432.96	329763	10.0000
Paroxetine	4.331	31274	8.25	23902.60	340925	10.0000
Phenazepam	4.651	4510635	1927.11	1305.47	35695357	10.0000
Phencyclidine	3.911	4805982	645.36	197.58	4459624	10.0000
Phentermine	3.133	1952651	243.65	29.83	23203106	10.0000
Phenytoin	4.141	2894893	897.17	653.29	1901921	10.0000
Promethazine	4.337	820499	344.56	32.18	32368608	10.0000
Pseudoephedrine	2.705	56170071	21982.48	867.66	31167628	10.0000
Quetiapine	4.467	2411727	1869471.44	936215.38	42413579	10.0000
Sertraline	4.550	66467	73.41	585.32	340925	10.0000
Sufentanil	4.436	35106	19970.08	14.79	36270043	10.0000
Tapentadol	3.422	7722176	1841.00	1551.58	24312780	10.0000
Temazepam	4.673	9756068	2349.70	491.08	35695357	10.0000
Tramadol	3.418	13563563	596.70	100.15	32368608	10.0000
Trazodone	4.605	1910609	1575037.73	725595.99	8740067	10.0000

Cal SC

SC

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.784	8926555	2025.33	442.35	340925	10.0000
Zaleplon	4.351	6962309	6441773.75	34906.63	42413579	10.0000
Zolpidem	4.304	14323154	10017.81	1362.64	42413579	10.0000
Zopiclone	4.160	1650336	663102.25	693.65	8870828	10.0000

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

Extraction Date: 04/23/21 Analyst: Sarah Collins
Plate lot#: IDP-108-2-210412 Plate Expiration: 10/12/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile
Blank Blood Lot: Lampire 20L20724 **Column**: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)
Blank Urine Lot: POCO31319
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. 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:** 3382167
☒ 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: 800 uL
☒ 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, Curve weighting of Linear 1/x with r^2 values ≥0.98 for each analyte
☒ 3. RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less).
☒ 4. Case sample response for THC and OH-THC 3ng/mL (quantitative), Carboxy-THC: ~~10~~ng/mL (qualitative only) will be reported. Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL.
qualitative 4/30/21
5-10 4/30/21
☒ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
☒ 6 Enter QCs into control charting.
☒ 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: *The run stopped before running any samples due to the sampler wasn't able to grab the analytical plate. The sampler error was fixed and samples were injected 4/24/21.*

Curve range limited: THC 3-100, THC-OH 3-100

&c

	1	2	3	4	5	6
A	IS + Cal. 1	negative blood	p2021-0703-1	p2021-1097-3		
B	IS + Cal. 2	negative urine	p2021-0712-3	p2021-1135-1		
C	IS + Cal. 3	external urine	p2021-0732-1			
D	IS + Cal. 4	m2021-0870-3	p2021-0961-1			
E	IS + Cal. 5	m2021-1056-2	p2021-1023-1			
F	IS + Cal. 6	m2021-1439-2	p2021-1090-1			
G	IS + Cal. 7	m2021-1444-2	p2021-1097-1			
H	IS + QC_1	m2021-1522-2	p2021-1097-2			

All wells to contain 100 µl of residual DMSO

SC

Idaho State Police
Forensic Services

AM #26 Screening of THC and Metabolites and AM #27 Confirmation of THC and Metabolites Blood External Control Prep Sheet

Methanol External Control Solution (Lot: WS03052021)

10 µL of 1mg/mL THC, 100 µL of 100 µg/mL THC-OH, C-THC in 9790 µL MeOH

Approximate concentration 1ug/mL.

Component	***Source***	***Source Lot Number***	***Expiration Date***
Methanol (LCMS)	Fisher	200921	
THC	Cerilliant	FE01041701	03/31/2022
C-THC	Cerilliant	FE08011801	08/31/2023
THC-OH	Cerilliant	FE07221601	07/31/2021
Prepared:	03/05/2021		
Prepared By:	Tamara Salazar/Amber Gerheart		

Urine External Control Solution (Lot: 04232021)

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

Approximately 20ng/mL each

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

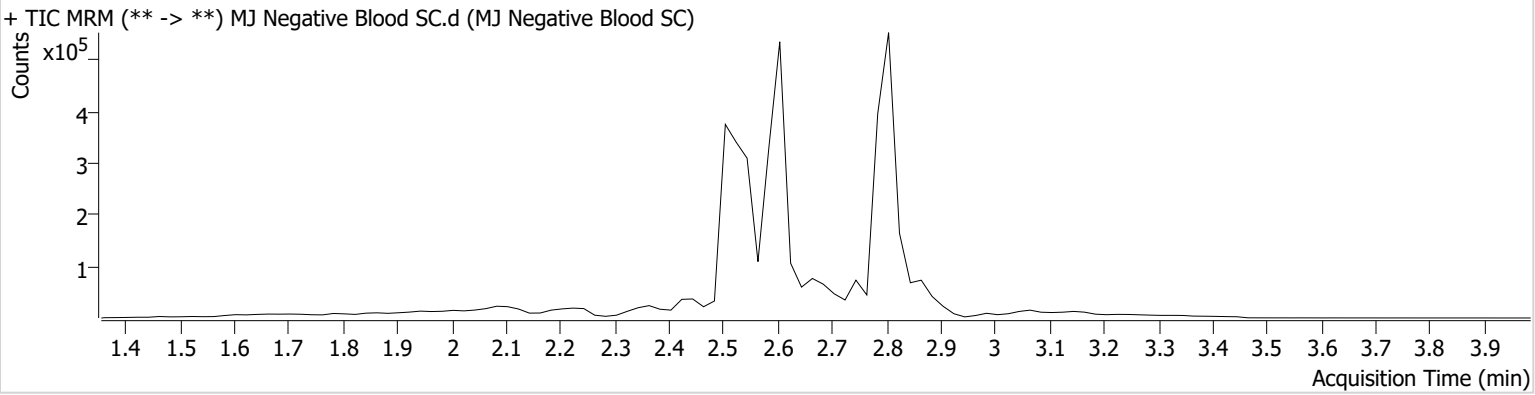
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Negative Blood SC.d
Type	Sample	**Sample**	MJ Negative Blood SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 9:18:24 PM		
Sample Info.			

Sample Chromatogram



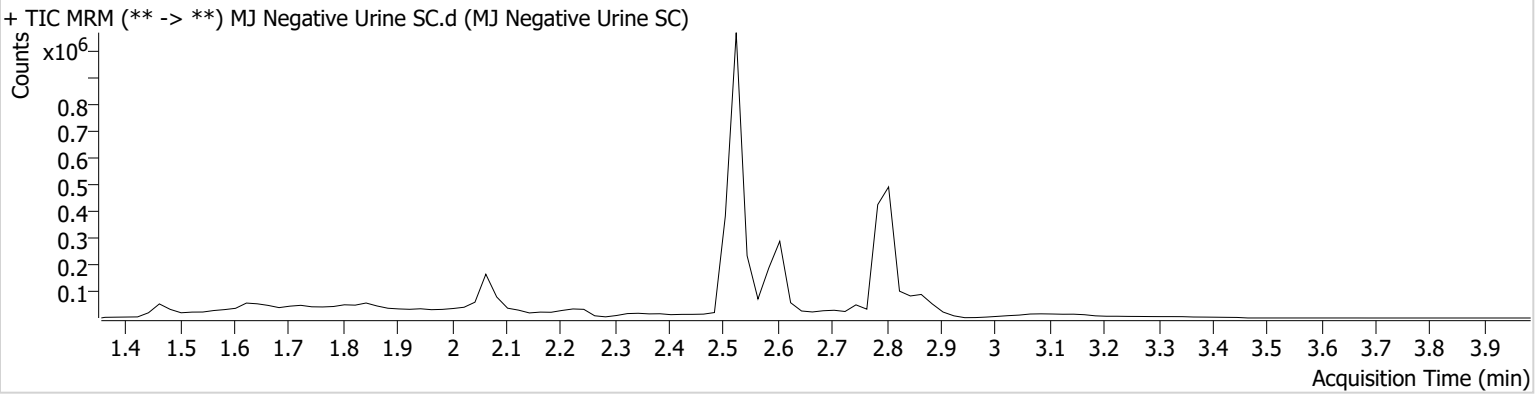
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Negative Urine SC.d
Type	Sample	**Sample**	MJ Negative Urine SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-B2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 7:14:24 PM		
Sample Info.			

Sample Chromatogram



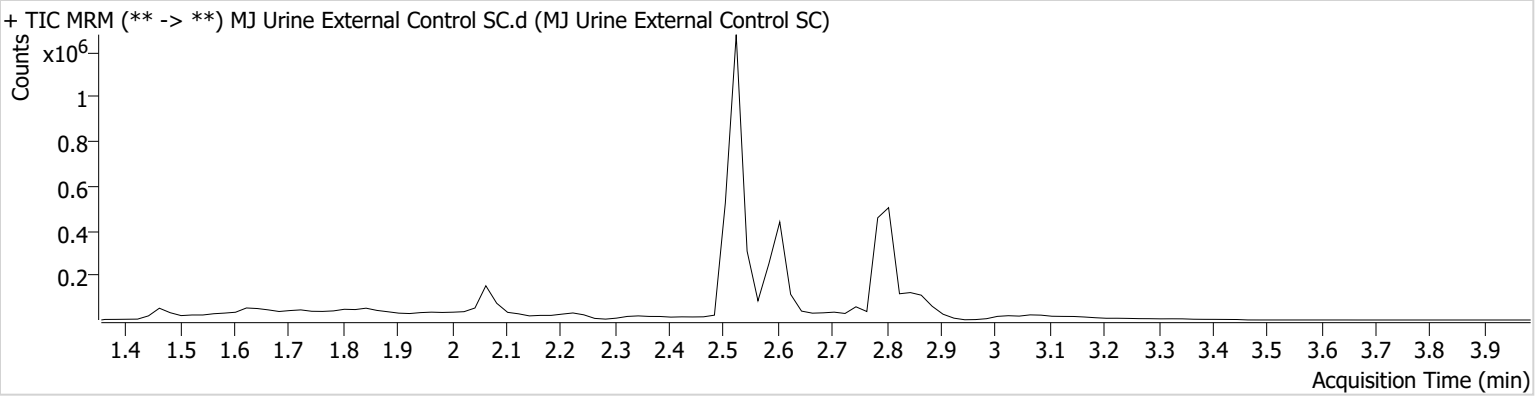
AM #26 Cannabinoids Screen Results

SC

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Urine External Control SC.d
Type	Sample	**Sample**	MJ Urine External Control SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-C2	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 7:27:28 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	17061	169676	7.7071	ng/ml
THC-COOH	2.627	49065	643434	12.1693	ng/ml
THC-OH	2.534	49584	2368635	13.2675	ng/ml

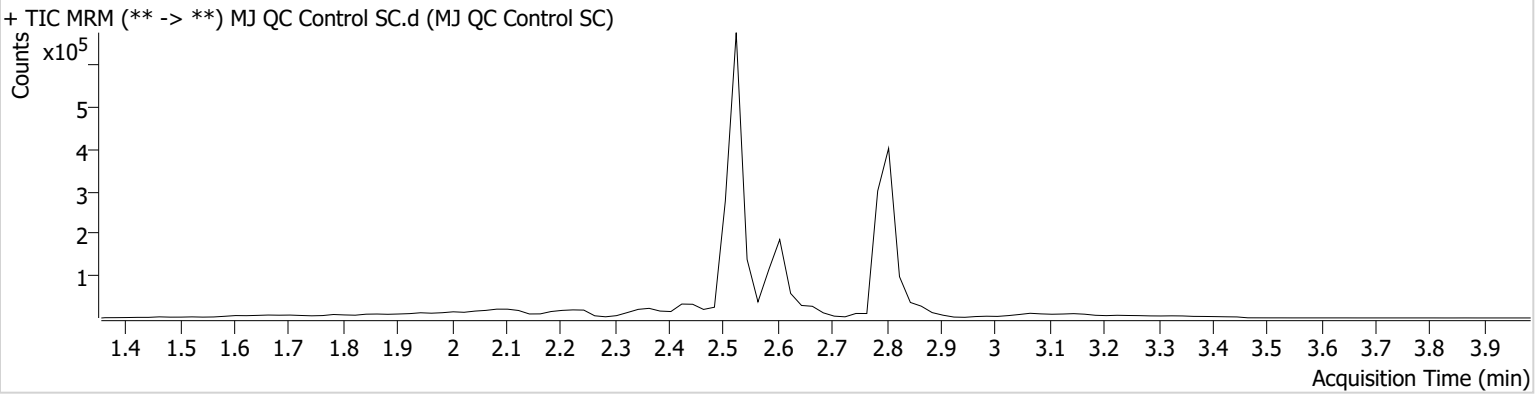
AM #26 Cannabinoids Screen Results

SC

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ QC Control SC.d
Type	Sample	**Sample**	MJ QC Control SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 7:01:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1135	16262	4.1921	ng/ml
THC-COOH	2.627	27559	258206	17.0202	ng/ml
THC-OH	2.534	9338	1267450	4.9247	ng/ml

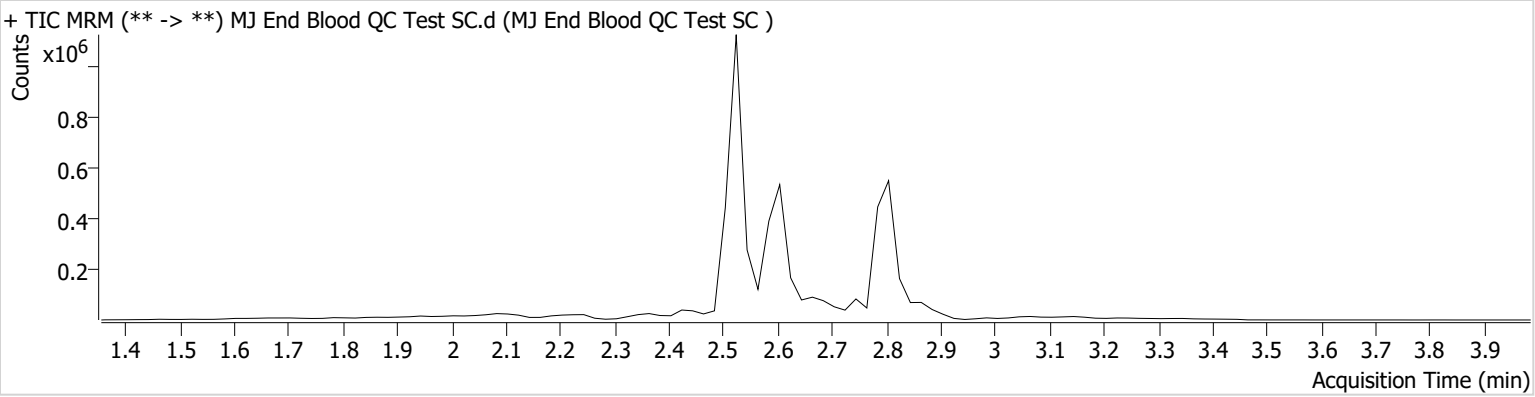
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ End Blood QC Test SC.d
Type	Sample	**Sample**	MJ End Blood QC Test SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 9:31:30 PM		
Sample Info.			

Sample Chromatogram

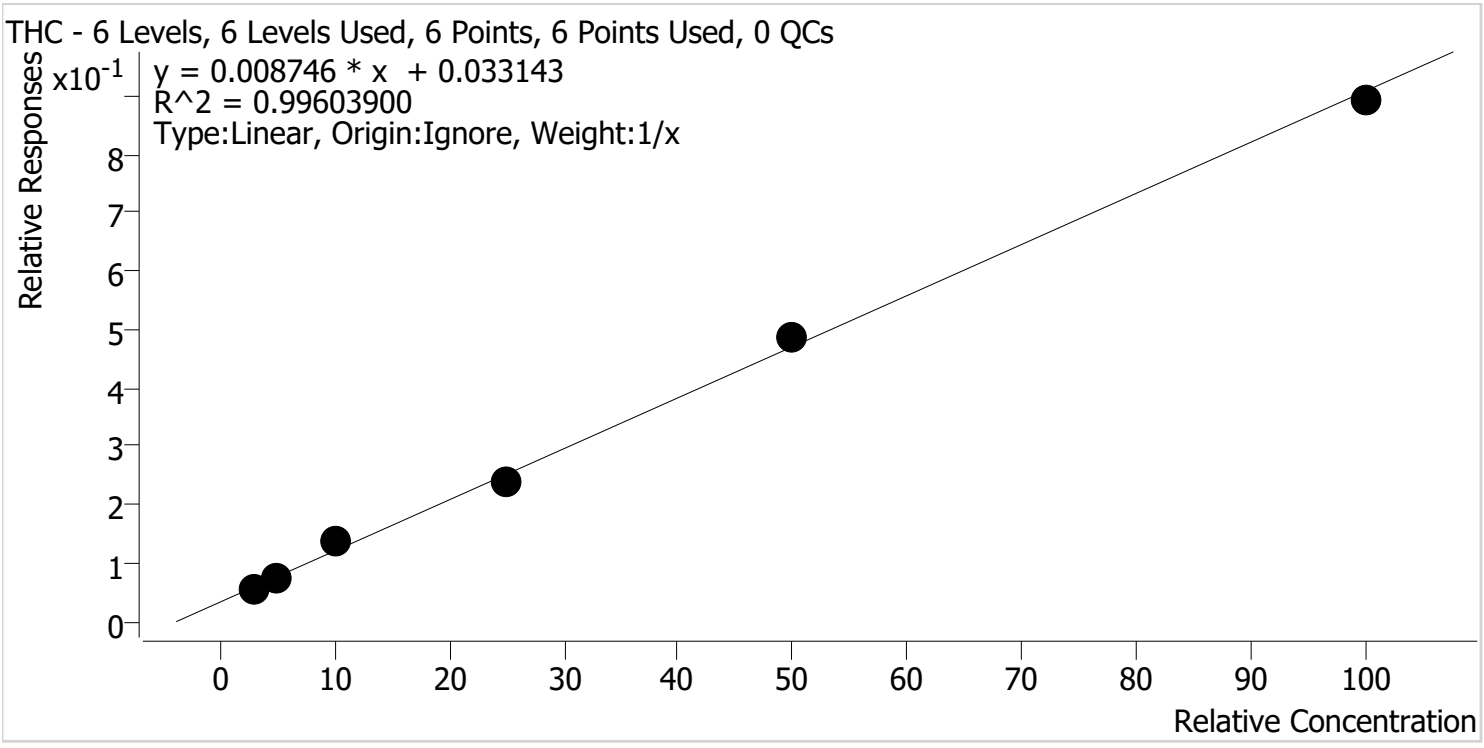


Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	2200	40553	2.4127	ng/ml	**Low**
THC-COOH	2.627	75900	898659	13.4751	ng/ml	
THC-OH	2.534	18449	2164112	5.6365	ng/ml	

SC

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update	4/26/2021 3:25 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3

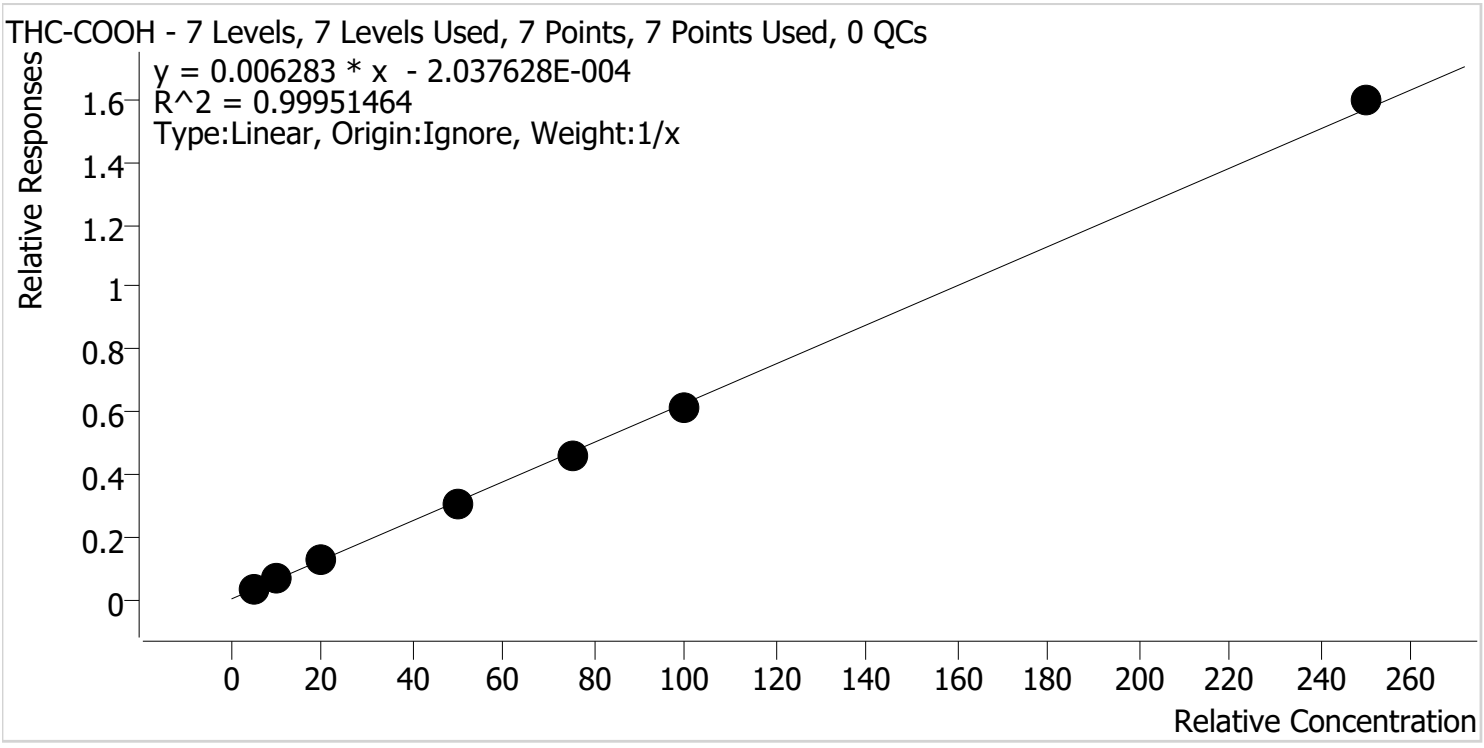


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2 SC	2	✔	3.0	2.7	88.5
MJ Cal 3 SC	3	✔	5.0	4.8	96.5
MJ Cal 4 SC	4	✔	10.0	11.8	118.3
MJ Cal 5 SC	5	✔	25.0	23.7	94.7
MJ Cal 6 SC	6	✔	50.0	51.9	103.9
MJ Cal 7 SC	7	✔	100.0	98.1	98.1

SC

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update	4/26/2021 3:25 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9

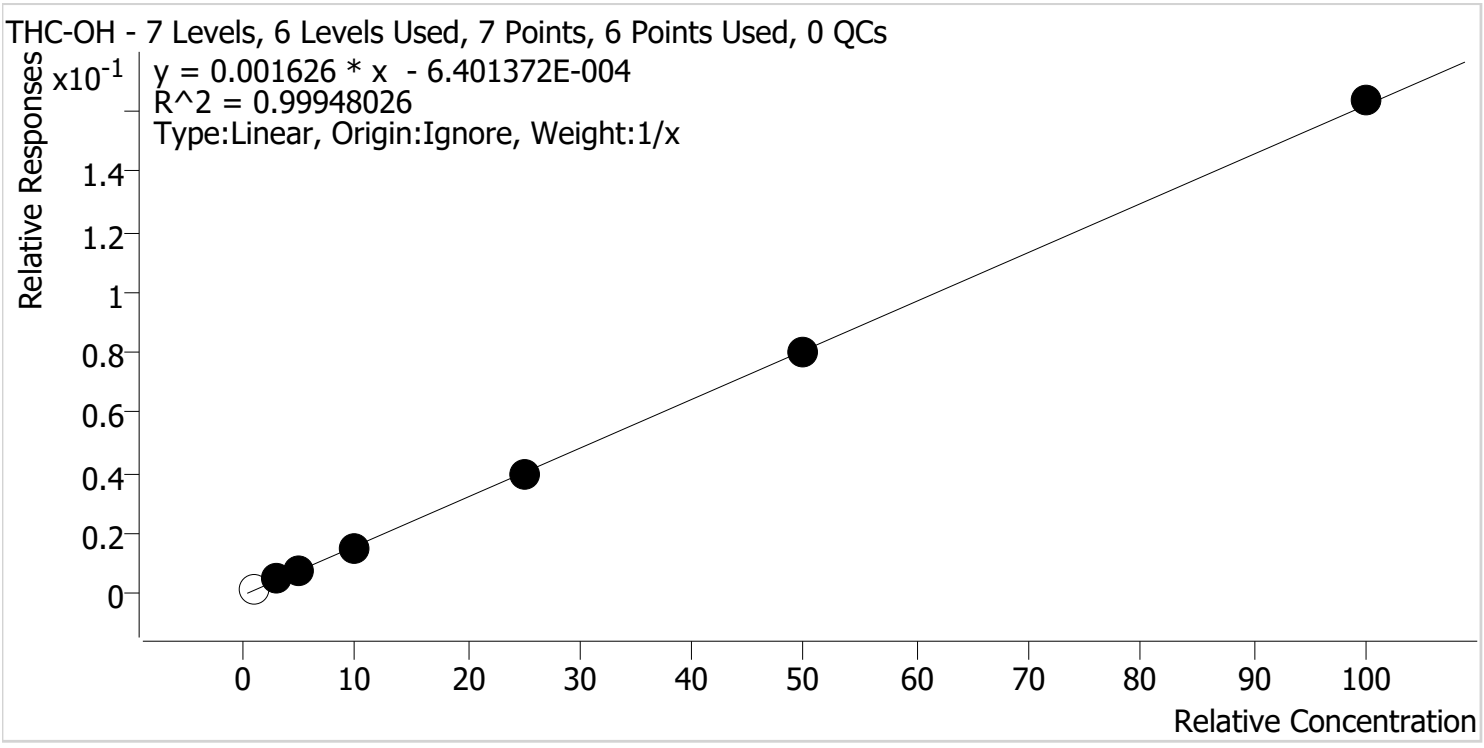


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1 SC	1	✔	5.0	5.3	105.2
MJ Cal 2 SC	2	✔	10.0	10.1	101.3
MJ Cal 3 SC	3	✔	20.0	19.5	97.7
MJ Cal 4 SC	4	✔	50.0	49.0	98.1
MJ Cal 5 SC	5	✔	75.0	73.3	97.7
MJ Cal 6 SC	6	✔	100.0	98.3	98.3
MJ Cal 7 SC	7	✔	250.0	254.4	101.8

SC

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Last Cal. Update	4/26/2021 3:25 PM
Analyst Name	ISP\datastor
Analyte	THC-OH
Internal Standard	THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1 SC	1	✗	1.0	1.3	133.6
MJ Cal 2 SC	2	✔	3.0	3.3	109.0
MJ Cal 3 SC	3	✔	5.0	4.9	97.5
MJ Cal 4 SC	4	✔	10.0	9.4	94.4
MJ Cal 5 SC	5	✔	25.0	24.6	98.4
MJ Cal 6 SC	6	✔	50.0	49.9	99.7
MJ Cal 7 SC	7	✔	100.0	100.9	100.9

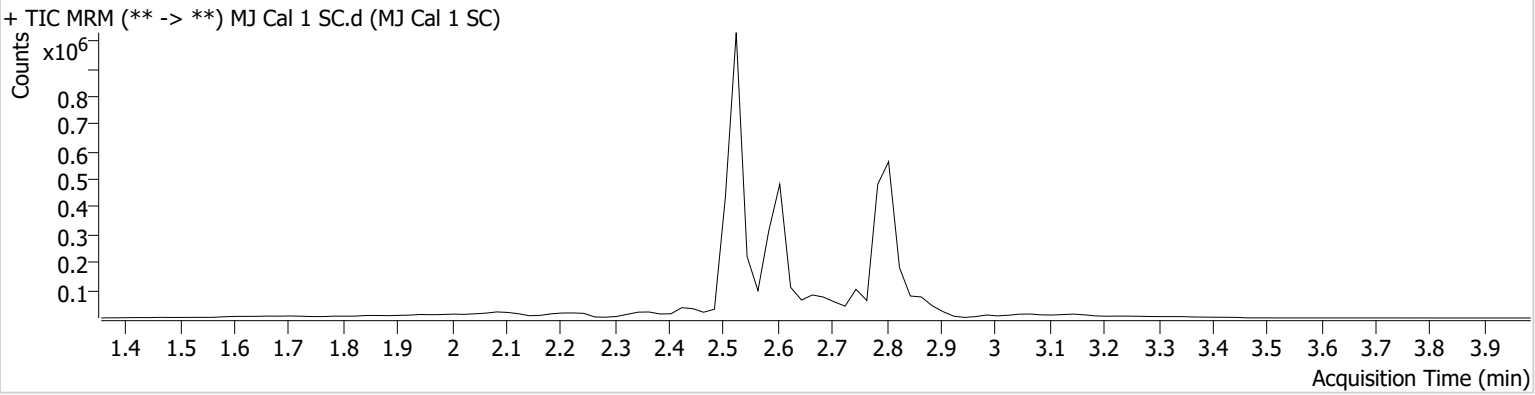
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 1 SC.d
Type	Cal	**Sample**	MJ Cal 1 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:15:29 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC-COOH	2.627	26154	796675	5.2576	ng/ml	
THC-OH	2.534	3095	2019594	1.3362	ng/ml	**Low**

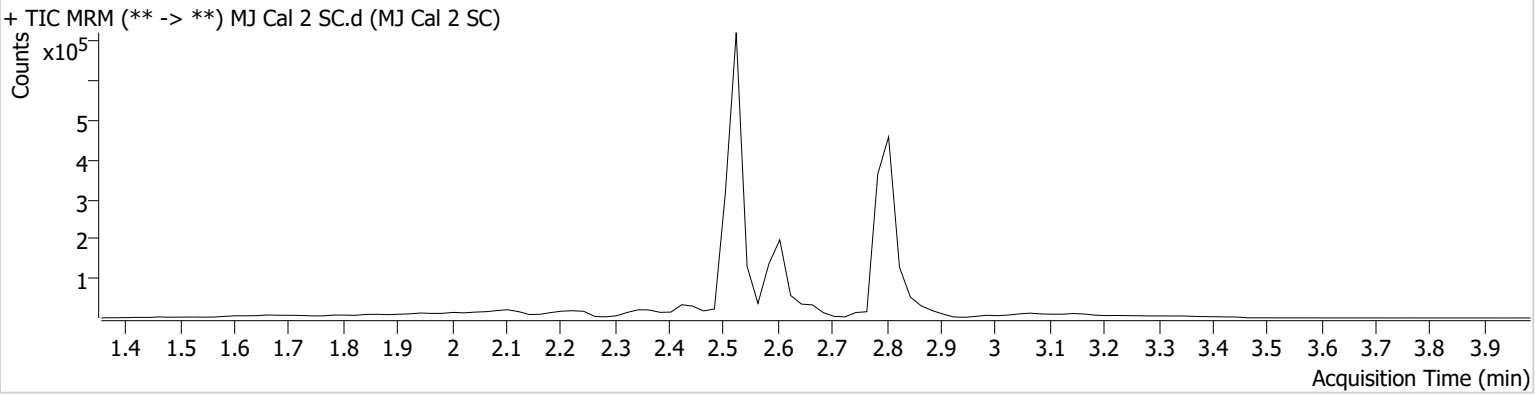
AM #26 Cannabinoids Screen Results

SC

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 2 SC.d
Type	Cal	**Sample**	MJ Cal 2 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:22:10 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.879	1015	18008	2.6557	ng/ml	Low
THC-COOH	2.627	20665	325887	10.1250	ng/ml	
THC-OH	2.534	6333	1354232	3.2696	ng/ml	

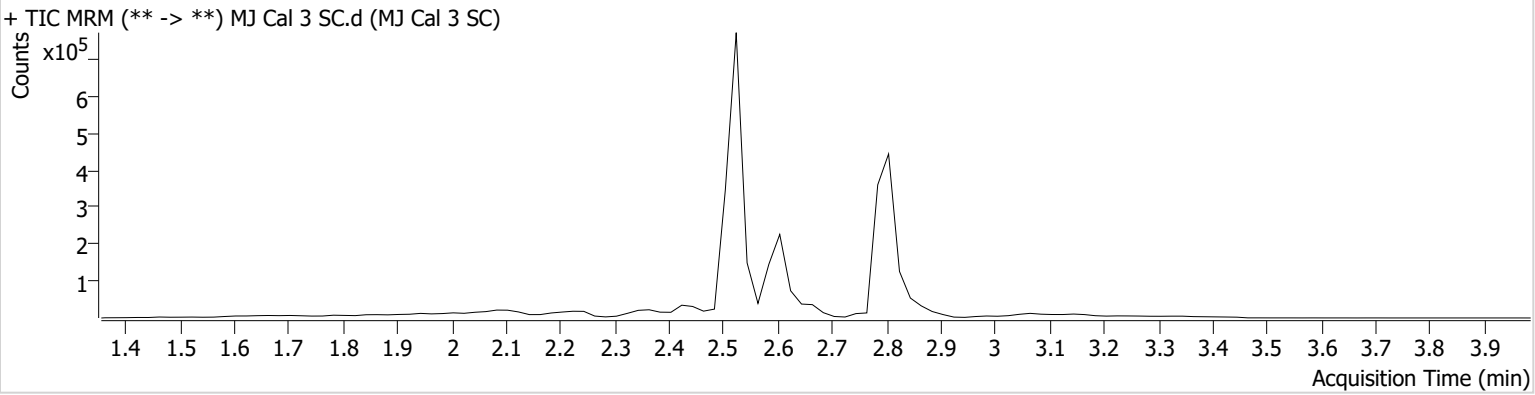
AM #26 Cannabinoids Screen Results

SC

Batch results D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update 4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 3 SC.d
Type	Cal	**Sample**	MJ Cal 3 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:28:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	1425	18908	4.8253	ng/ml
THC-COOH	2.627	39243	320235	19.5370	ng/ml
THC-OH	2.534	10712	1470294	4.8741	ng/ml

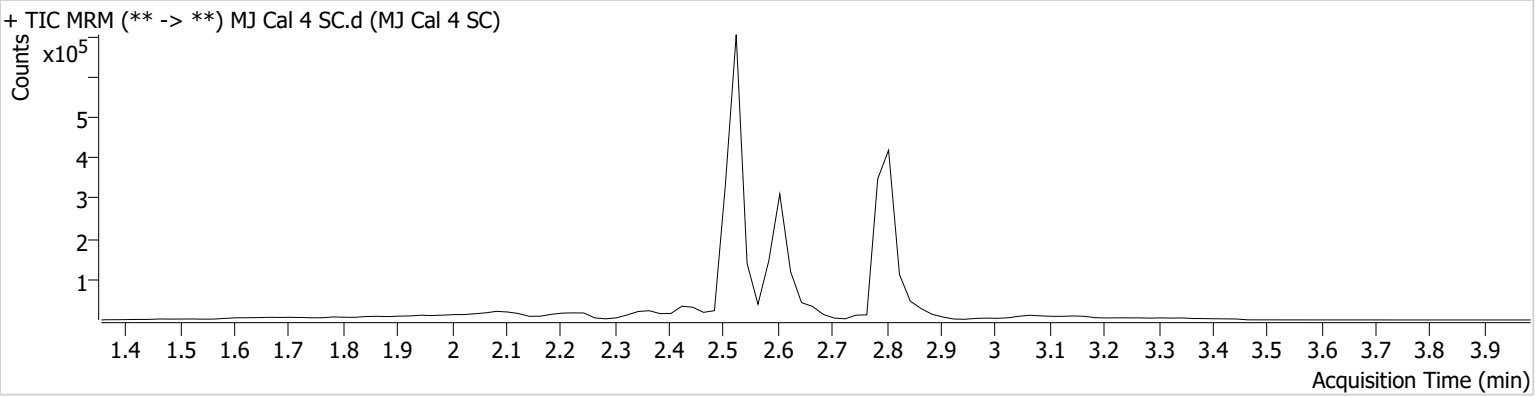
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 4 SC.d
Type	Cal	**Sample**	MJ Cal 4 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:35:13 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	2129	15581	11.8329	ng/ml
THC-COOH	2.627	86134	279716	49.0441	ng/ml
THC-OH	2.534	19362	1316067	9.4414	ng/ml

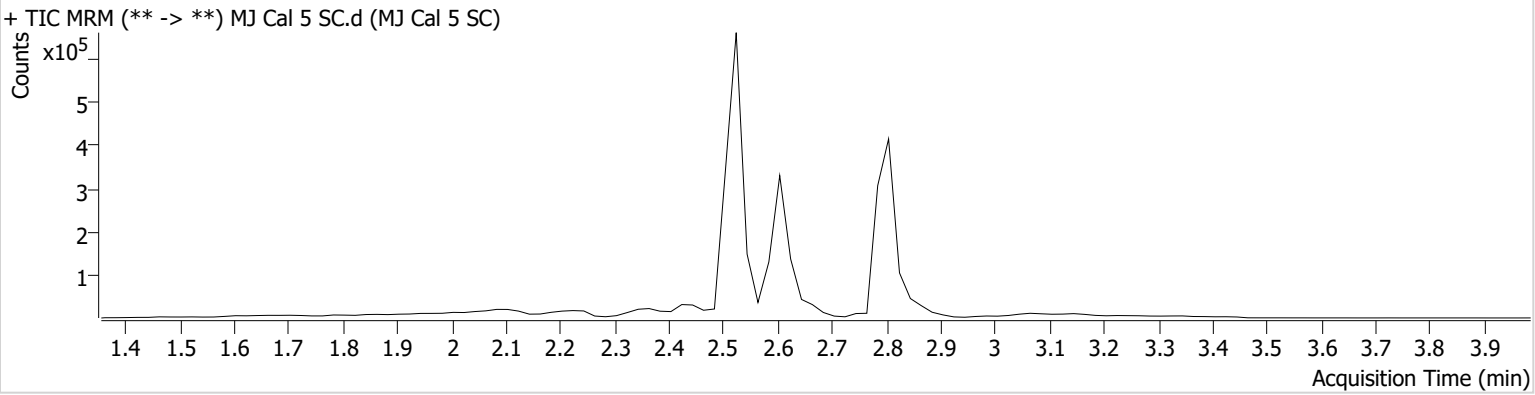
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 5 SC.d
Type	Cal	**Sample**	MJ Cal 5 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:41:44 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	3744	15587	23.6729 ng/ml
THC-COOH	2.627	106885	232224	73.2895 ng/ml
THC-OH	2.534	45431	1153653	24.6121 ng/ml

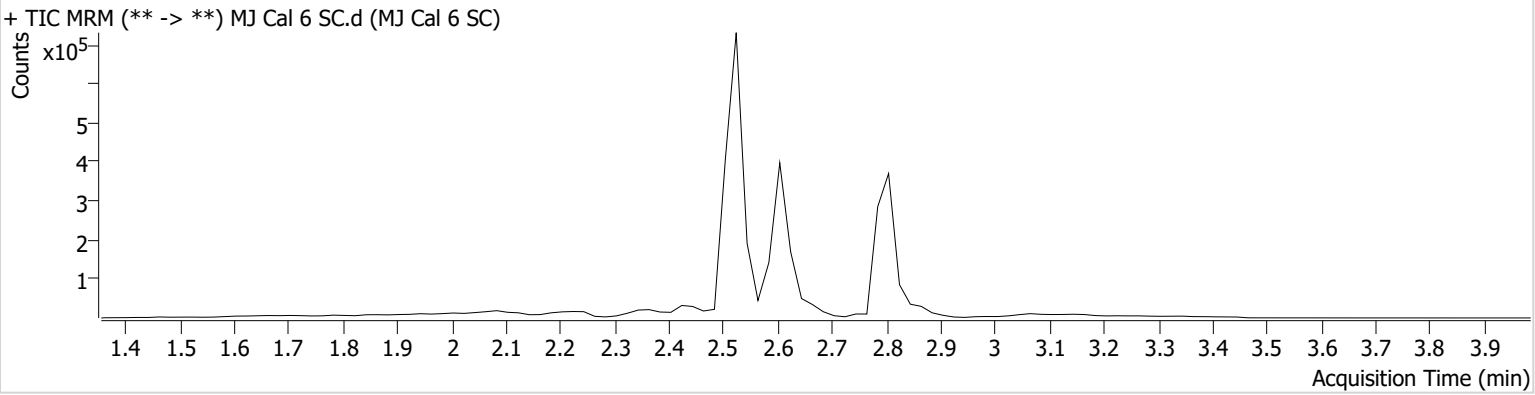
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 6 SC.d
Type	Cal	**Sample**	MJ Cal 6 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:48:15 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.879	7092	14551	51.9361 ng/ml
THC-COOH	2.627	139579	225971	98.3444 ng/ml
THC-OH	2.534	92311	1147492	49.8667 ng/ml

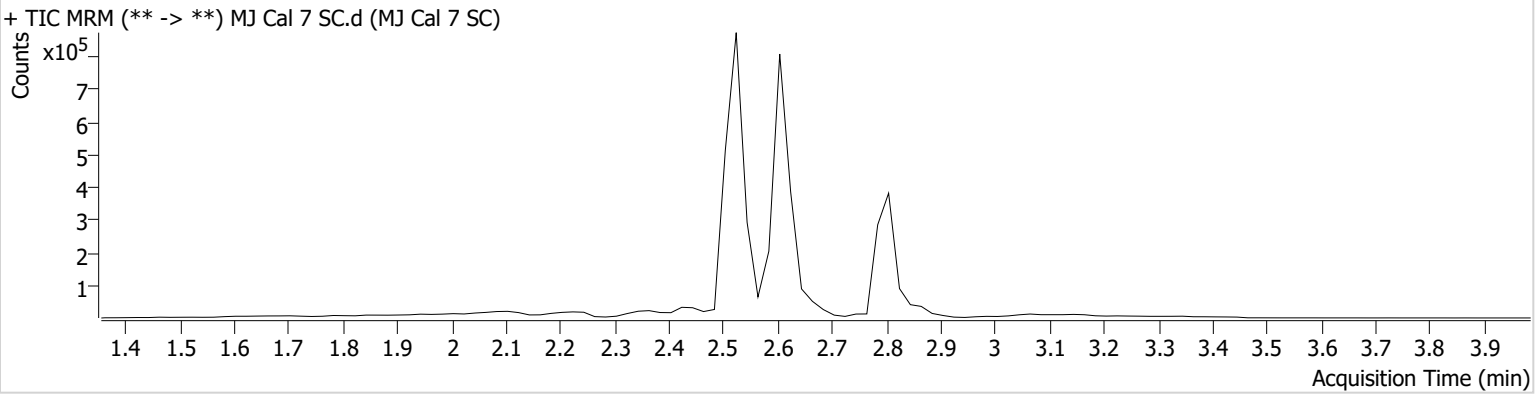
AM #26 Cannabinoids Screen Results

SC

Batch results	D:\MassHunter\Data\2021\AM 27-28\042421 AM 25 26 SC\QuantResults\AM 26.batch.bin
Calibration Last Update	4/26/2021 3:25:20 PM

Instrument	Instrument 1	**Data File**	MJ Cal 7 SC.d
Type	Cal	**Sample**	MJ Cal 7 SC
Acq. Method	AM 26 THCS.m	**Operator**	Sarah Collins
Sample Position	P5-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	4/24/2021 6:54:46 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.879	12752	14314	98.0771	ng/ml
THC-COOH	2.627	350777	219486	254.4024	ng/ml
THC-OH	2.534	184614	1129224	100.9361	ng/ml