REVIEWED
By Tamara Salazar at 1:03 pm, Feb 17, 2021

SJ

1/29/2021

Worklist: 4767

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-5173	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-5249	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0018	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0121	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0122	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0167	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0206	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-0310	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-3699	4	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-3795	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-3817	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0130	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0154	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0155	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0160	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0169	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0170	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0186	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0231	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0232	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-0235	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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Worklist: 4767

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2021-0238	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

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

Extraction Date: 2/11/21
Plate lot#: IDP-107-2-200511

Analyst: Sophia Jackson
Plate Expiration: 11/11/2020 – ok with external control

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide
Blank Blood Lot: Lampire 20L20725
LCMS-QQQ ID: 069901

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. Pipette **250 µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: #16**
☒ 3. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 4. Pipette **250 µL of 0.5 M ammonium hydroxide** in wells of analytical plate.
☒ 5. Place on shaking incubator at ambient temp., 900 rpm for 15 minutes.
☒ 6. Transfer **300 µL of blood+base** 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)***
☒ 8. Wait 5 minutes.
☒ 9. Add **900 µL ethyl acetate.**
☒ 10. Wait 5 minutes.
☒ 11. Apply positive pressure for approx. 10-15 seconds. ***(12-15 PSI- Selector to the left).***
☒ 12. Add **900 µL ethyl acetate.**
☒ 13. Wait 5 minutes.
☒ 14. Apply positive pressure for approx. 10-15 seconds. ***(12-15 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 **100 µL 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 5 or greater or 2-5 for discretionary range.
☒ 4. Did all QCs pass for each analyte? Y / N _____
☒ 5. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:
Due to extraction occurring after the expiration of the analytical plate, an external control was included with this run

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	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	M2021-0018-1	P2020-3817-1	P2021-0231-1								
B		M2021-0121-2	P2021-0130-1	P2021-0232-1								
C		M2021-0122-2	P2021-0154-1	P2021-0235-3								
D		M2021-0167-3	P2021-0155-1	P2021-0238-1								
E	External control	M2021-0206-1	P2021-0160-1									IS + Cal 2
F	Negative control	M2021-0310-2	P2021-0169-1									IS + Cal 2
G	M2020-5173-1	P2020-3699-4	P2021-0170-1									IS + Cal. 1
H	M2020-5249-1	P2020-3795-1	P2021-0186-1									IS + Cal. 1

All wells to contain 60 µl of residual DMSO

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Idaho State Police
Forensic Services

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

Methanol External Control Solution (Lot: 121020)

100 µL of 1mg/mL stock was added to each drug to 9600 µL of LC MeOH.

Component	*Source*	*Source Lot Number*	*Expiration Date*
Methanol (LCMS)	Fisher	197468	
Alprazolam	Cerilliant	FE07061604	07/31/2021
Clonazepam	Cerilliant	FE07131603	10/31/2021
Hydrocodone	Cerilliant	FE04241902	09/30/2024
Morphine	Cerilliant	FE06231704	07/31/2022
Prepared:	12/10/2020		
Prepared By:	Tamara Salazar		
Expires:	07/31/2021		

Blood External Control Solution (Lot: WS121020)

100 µL of methanol external control solution was added to 9900 µL of blood.
Approximately 100 ng/mL of each compound.

Component	*Source*	*Source Lot Number*
Negative Blood	Lampire	20L20725
Methanol External Control Solution		121020
Prepared:	12/10/2020	
Prepared by:	Tamara Salazar	
Expires:	07/31/2021	

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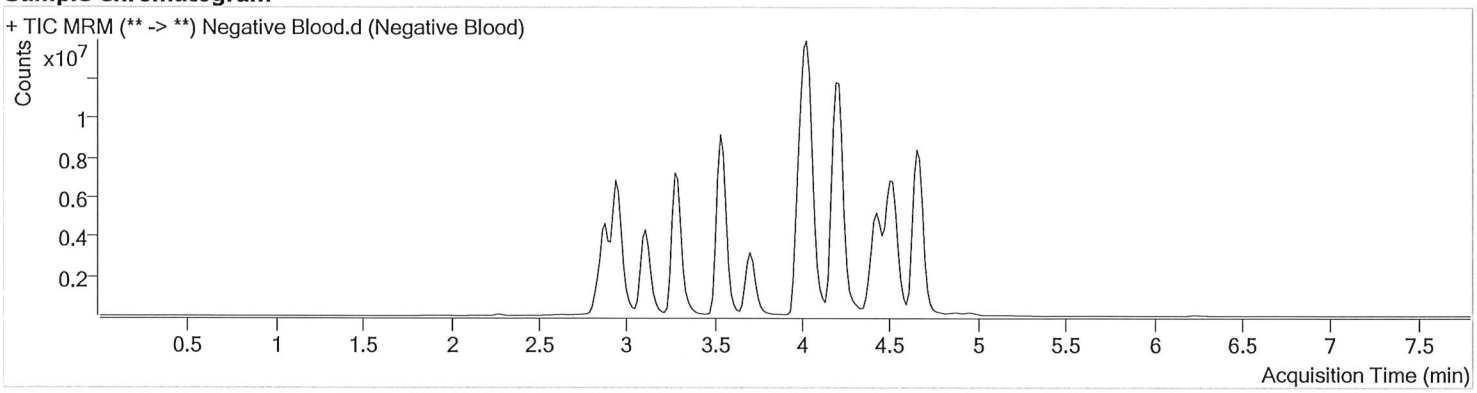
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\021121 AM 25 SJ\QuantResults\AM 25.batch.bin
Calibration Last Update 2/16/2021 1:12:07 PM

Instrument	Instrument 1	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 MDS.m	**Operator**	Sophia Jackson
Sample Position	P2-F1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/11/2021 11:10:52 AM		
Sample Info.			

Sample Chromatogram



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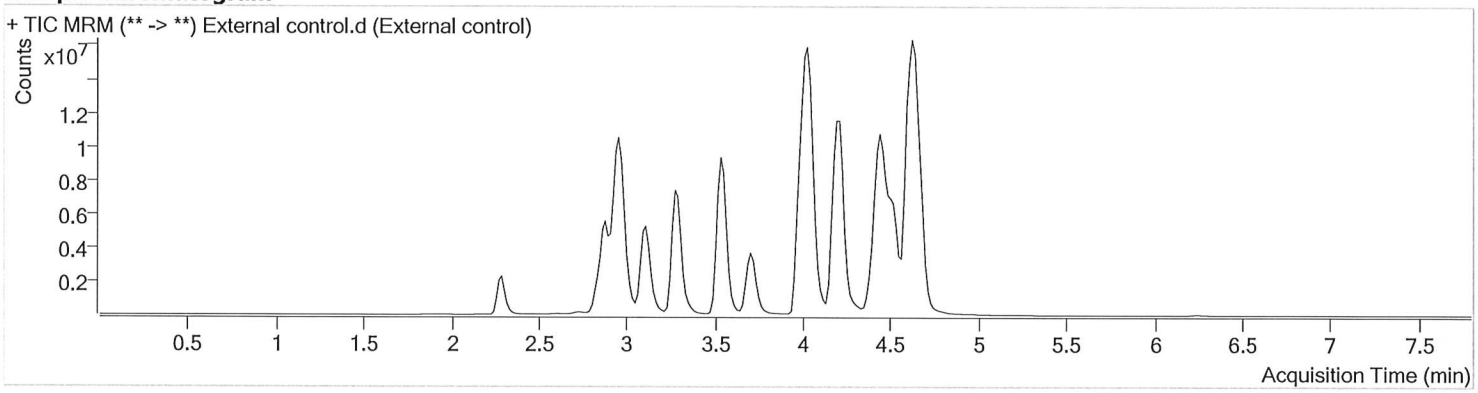
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\021121 AM 25 SJ\QuantResults\AM 25.batch.bin
Calibration Last Update 2/16/2021 1:12:07 PM

Instrument	Instrument 1	**Data File**	External control.d
Type	Sample	**Sample**	External control
Acq. Method	AM 25 MDS.m	**Operator**	Sophia Jackson
Sample Position	P2-E1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/11/2021 11:02:26 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.610	31600300	8137.79	∞	30294858	84.3540
Clonazepam	4.455	16535801	5628.24	∞	30294858	90.4556
Hydrocodone	2.973	11685368	185.93	277.55	8871020	76.2469
Morphine	2.291	2323396	∞	∞	182810	99.7038

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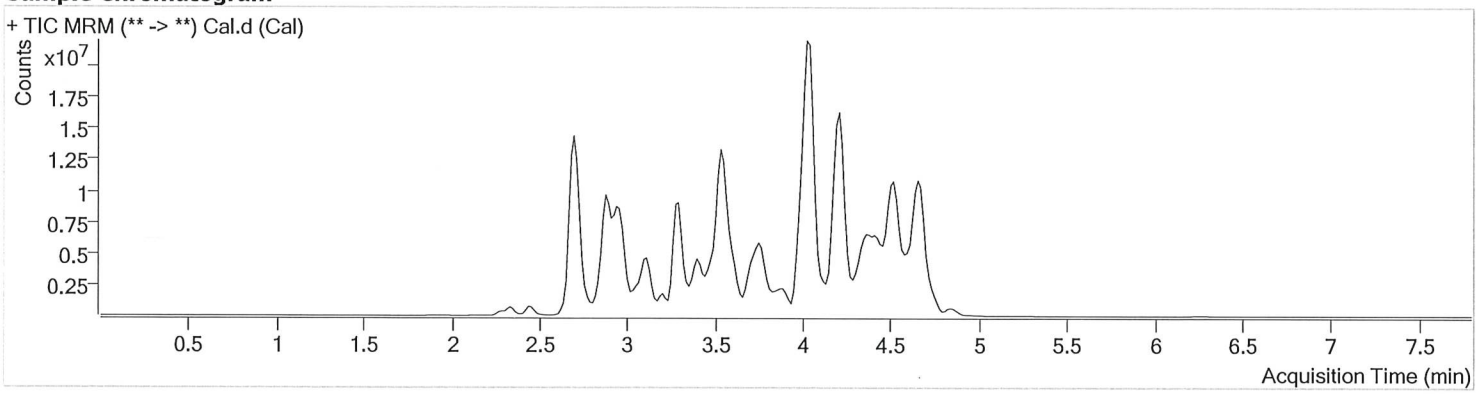
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\021121 AM 25 SJ\QuantResults\AM 25.batch.bin
Calibration Last Update 2/16/2021 1:12:07 PM

Instrument	Instrument 1	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Sophia Jackson
Sample Position	P2-A1	**Comment**	
Injection Volume	5		
Acq. Date-Time	2/11/2021 10:53:51 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.877	50962	70.11	48.59	1419764	10.0000
7-aminoclonazepam	3.569	1740087	5009.26	389.80	7184404	10.0000
7-aminoflunitrazepam	3.768	2718905	489.33	541.28	7184404	10.0000
Acetyl Fentanyl	3.810	187607	63.25	73455.08	26835237	10.0000
Acetyl Norfentanyl	2.870	261499	1261.91	87.43	26835237	10.0000
a-hydroxyalprazolam	4.515	400556	116.47	416.72	7184404	10.0000
alpha-hydroxymidazolam	4.591	3031290	3092.40	∞	7184404	10.0000
Alpha-PHP	3.773	1970870	1154.68	965.23	26835237	10.0000
alpha-PVP	3.498	3600457	5136.50	1148.04	5049457	10.0000
Alprazolam	4.610	3494411	775.84	3663.11	28259022	10.0000
Amitriptyline	4.400	1650480	∞	116.78	3859058	10.0000
Amphetamine	2.890	2322256	421.60	5964.37	5049457	10.0000
Benzoylecgonine	3.369	1092997	745613.92	20745.08	537930	10.0000
Brompheniramine	4.010	47339	13.00	186.88	28456352	10.0000
Buprenorphine	4.465	396380	1959.75	166.13	1504481	10.0000
Bupropion	3.727	2847004	∞	207.65	10350092	10.0000
Carbamazepine	4.235	10516862	∞	4491.53	757776	10.0000
Carisoprodol	4.233	1834359	123885.63	200.82	9520109	10.0000
Chlordiazepoxide	4.735	1945046	9.21	892.03	28259022	10.0000
Chlorpheniramine	3.908	3578641	∞	45.02	28456352	10.0000
Citalopram	4.040	1637813	∞	156.06	28456352	10.0000
Clomipramine	4.594	2124817	1464.51	∞	28456352	10.0000
Clonazepam	4.440	1705210	524897.44	10541.66	28259022	10.0000
Clonazolam	4.360	1943315	1687.53	2176.83	28259022	10.0000
Cocaethylene	3.750	3660514	495.90	120673.74	26161798	10.0000
Cocaine	3.536	4653620	3515169.34	490.89	26161798	10.0000
Codeine	2.790	353171	17917.77	492.91	8601258	10.0000
Cyclobenzaprine	4.324	1534868	280.67	32.26	3859058	10.0000
Desipramine	4.355	2406007	∞	∞	3859058	10.0000
Dextromethorphan	4.046	931255	47901.11	49436.39	4982632	10.0000
Dextrorphan	3.341	2091367	1155.01	4468.86	4982632	10.0000
Diazepam	4.843	1111581	∞	∞	28259022	10.0000
Dihydrocodeine	2.728	922830	∞	∞	8601258	10.0000
Diphenhydramine	4.002	4051611	476.44	189.48	28456352	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.122	961388	638.74	∞	12365041	10.0000
Doxylamine	3.601	6687779	6405.42	5238.43	4982632	10.0000
EDDP	4.045	4322395	19379.25	∞	2328503	10.0000
Estazolam	4.535	6900689	486.82	∞	28259022	10.0000
Etizolam	4.621	452263	377.53	271357.16	28259022	10.0000
Fentanyl	4.039	142526	292.31	23895.98	7426503	10.0000
Flualprazolam	4.484	1411276	1717.06	166.82	28259022	10.0000
Flunitrazepam	4.564	3103835	618314.36	35069.55	28259022	10.0000
Fluoxetine	4.319	1578630	∞	90.44	4352384	10.0000
Flurazepam	4.129	1897314	255034.13	2650.19	28259022	10.0000
Hydrocodone	2.973	1485966	52.59	∞	8601258	10.0000
Hydromorphone	2.442	1197885	∞	∞	205449	10.0000
Imipramine	4.368	2889720	∞	399.18	3859058	10.0000
Ketamine	3.451	3374979	∞	368.71	12689797	10.0000
Lamotrigine	3.556	304294	442.15	6652.63	28456352	10.0000
Levamisole	2.932	2087687	∞	183.21	26161798	10.0000
Levetiracetam	2.659	1176943	211.55	2965.59	28456352	10.0000
Lorazepam	4.439	610005	∞	∞	28259022	10.0000
Maprotiline	4.400	1655778	290.80	∞	3859058	10.0000
MDA	2.994	2256139	4225.29	∞	13538425	10.0000
MDEA	3.207	3363160	∞	112.75	13538425	10.0000
MDMA	3.055	4282904	482516.09	621.35	13538425	10.0000
Meperidine	3.572	1569800	∞	57696.92	4982632	10.0000
Meprobamate	3.652	1081525	393.34	177.44	9520109	10.0000
Methadone	4.365	2886958	248.05	150.93	2328503	10.0000
Methamphetamine	2.980	3408150	418.86	432.18	13538425	10.0000
Methocarbamol	3.573	638121	∞	9.90	2328503	10.0000
Methylphenidate	3.482	7153066	∞	∞	14167178	10.0000
Metoprolol	3.402	555356	2630.76	359933.28	4982632	10.0000
Midazolam	4.745	621775	∞	71.77	28259022	10.0000
Mirtazapine	3.847	1532225	132.50	1671.36	4982632	10.0000
Mitragynine	4.144	197512	122456.12	38687.30	4982632	10.0000
Morphine	2.291	261887	8.21	∞	205449	10.0000
Norbuprenorphine	3.792	43704	270.19	29863.48	1504481	10.0000
Nordiazepam	4.707	1834516	1185.24	1345.76	28259022	10.0000
Norfentanyl	3.298	5676304	494846.94	388.15	26835237	10.0000
Norhydrocodone	2.898	36339	32.17	29.64	205449	10.0000
Norketamine	3.529	747647	619.01	∞	12689797	10.0000
Normeperidine	3.574	1272787	238.26	119.24	28456352	10.0000
Noroxycodone	2.865	1508845	131.86	∞	12689797	10.0000
Nortriptyline	4.386	973858	1259.34	547.36	3859058	10.0000
O-desmethyl-tramadol	2.899	6693952	∞	1160.02	28456352	10.0000
Olanzapine	3.735	1045573	823914.54	3110.84	757776	10.0000
Oxazepam	4.521	3272510	∞	439.47	19661162	10.0000
Oxycodone	2.894	2960138	∞	∞	12689797	10.0000
Oxymorphone	2.332	1400261	306.46	263.26	205449	10.0000
Paroxetine	4.316	208001	3076.79	∞	4352384	10.0000
Phenazepam	4.636	3130309	127126.96	1545.80	28259022	10.0000
Phencyclidine	3.880	2589656	271.44	∞	4982632	10.0000
Phentermine	3.133	1141845	∞	16.70	14167178	10.0000
Phenytoin	4.126	1299813	542.89	61902.50	757776	10.0000
Promethazine	4.306	3363756	1939.31	148.86	28456352	10.0000
Pseudoephedrine	2.705	46201885	3907.97	∞	13538425	10.0000
Quetiapine	4.390	1898859	∞	441782.28	39963763	10.0000
Sertraline	4.534	841003	1285.41	678.08	4352384	10.0000
Sufentanil	4.375	115550	∞	∞	26835237	10.0000
Tapentadol	3.422	4181234	742.90	287877.13	12689797	10.0000
Temazepam	4.673	5387716	3122.62	501.13	28259022	10.0000
Tramadol	3.402	7437560	∞	229.33	28456352	10.0000
Trazodone	4.482	2676599	2033.15	439.85	12365041	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.769	5048287	3260.29	∞	4352384	10.0000
Zaleplon	4.335	2821784	45449.95	∞	39963763	10.0000
Zolpidem	4.212	8791783	1029.98	811.91	39963763	10.0000
Zopiclone	4.052	819289	370.84	127.43	4270704	10.0000

Cal

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

Extraction Date: 02/01/2021
Plate lot#: IDP-108-2-201206

Analyst: Sophia Jackson
Plate Expiration: 06/06/2021

Mobile phase A: 0.1% Formic Acid in LCMS Water
Blank Blood Lot: Lampire 20L20725
LCMS-QQQ ID: 069901

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. 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: 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, 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 limited: OH-THC 3-100 (calibrator 1 dropped due to poor response and peak shape)

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	1	2	3	4	5	6
A	IS + Cal. 1	Negative control	M2021-0310-2	P2021-0169-1		IS + QC_1
B	IS + Cal. 2	M2020-5173-1	P2020-3699-4	P2021-0170-1		IS + Cal. 7
C	IS + Cal. 3	M2020-5249-1	P2020-3795-1	P2021-0186-1		IS + Cal. 6
D	IS + Cal. 4	M2021-0018-1	P2020-3817-1	P2021-0231-1		IS + Cal. 5
E	IS + Cal. 5	M2021-0121-2	P2021-0130-1	P2021-0232-1		IS + Cal. 4
F	IS + Cal. 6	~~M2021-0122-2~~*	P2021-0154-1	P2021-0235-3		IS + Cal. 3
G	IS + Cal. 7	M2021-0167-3	P2021-0155-1	P2021-0238-1		IS + Cal. 2
H	IS + QC_1	M2021-0206-1	P2021-0160-1	M2021-0122-2*		IS + Cal. 1

All wells to contain 100 µl of residual DMSO

*M2021-0122-2 moved during analytical step 6 due to a blood clot

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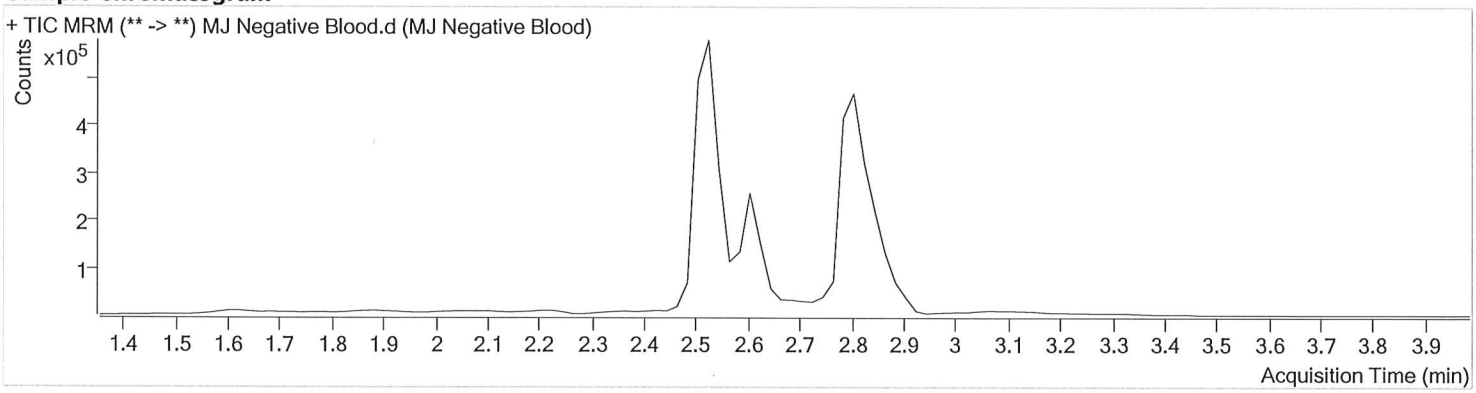
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:45:54 PM		
Sample Info.			

Sample Chromatogram



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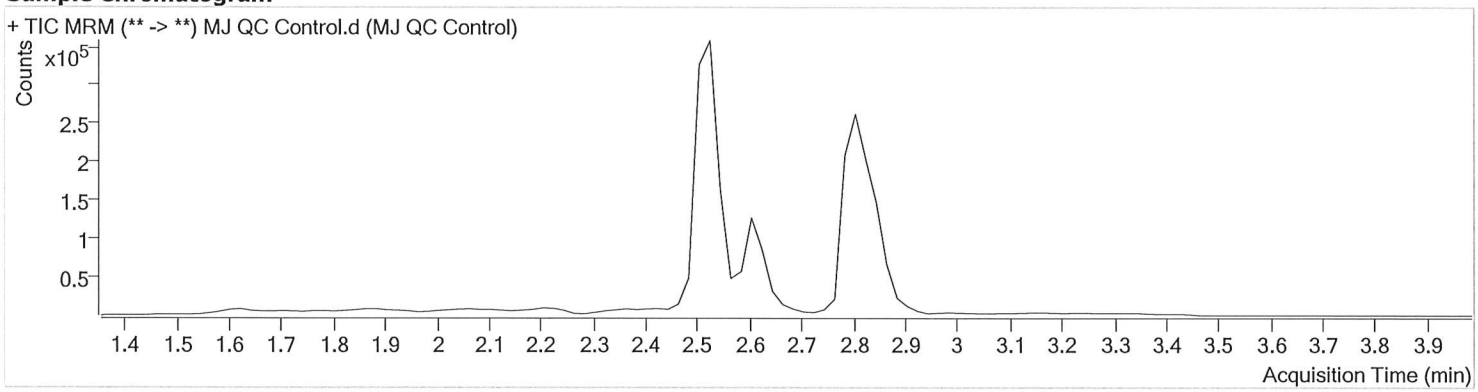
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:32:49 PM		
Sample Info.			

Sample Chromatogram

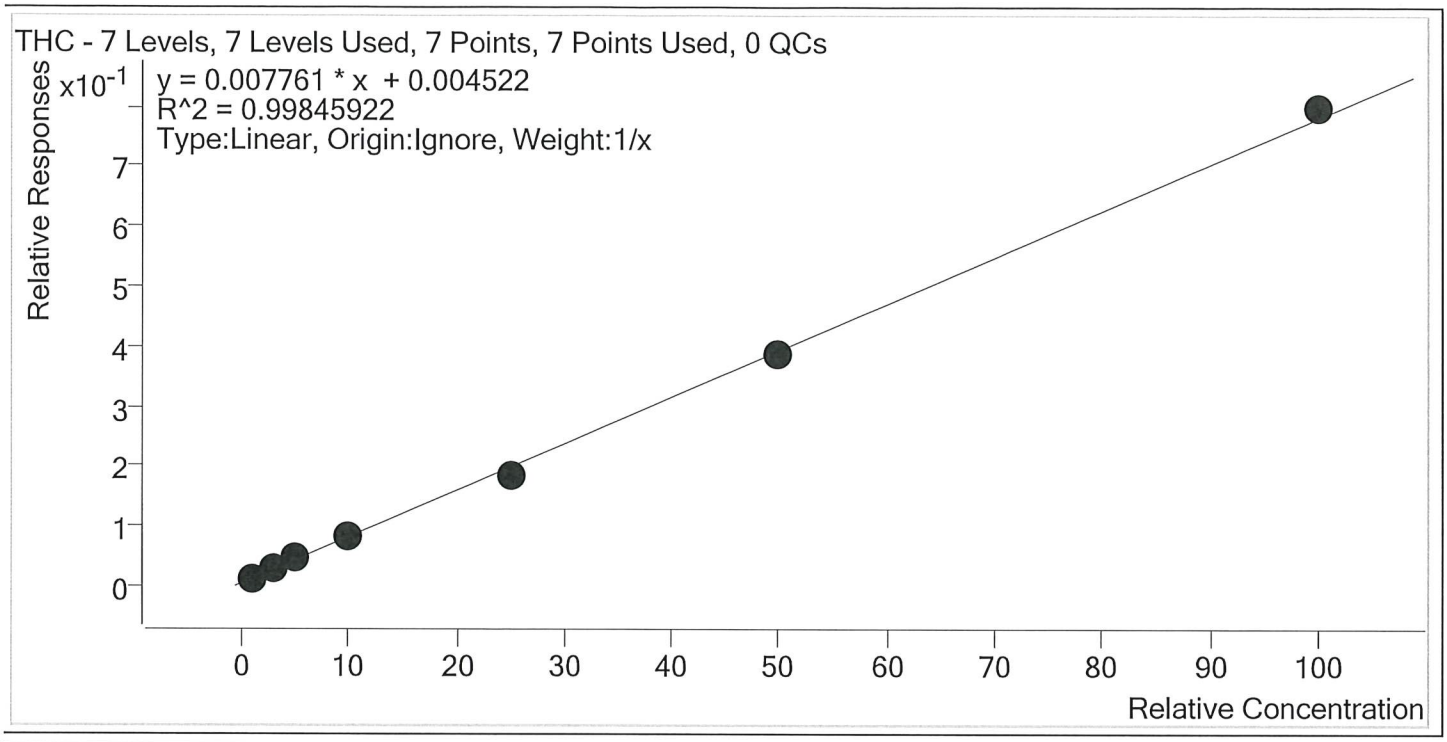


Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2338	65415	4.0235 ng/ml
THC-COOH	2.625	59142	221535	13.7752 ng/ml
THC-OH	2.512	70117	1001069	4.7333 ng/ml

SJ

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Last Cal. Update	2/16/2021 1:07 PM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3



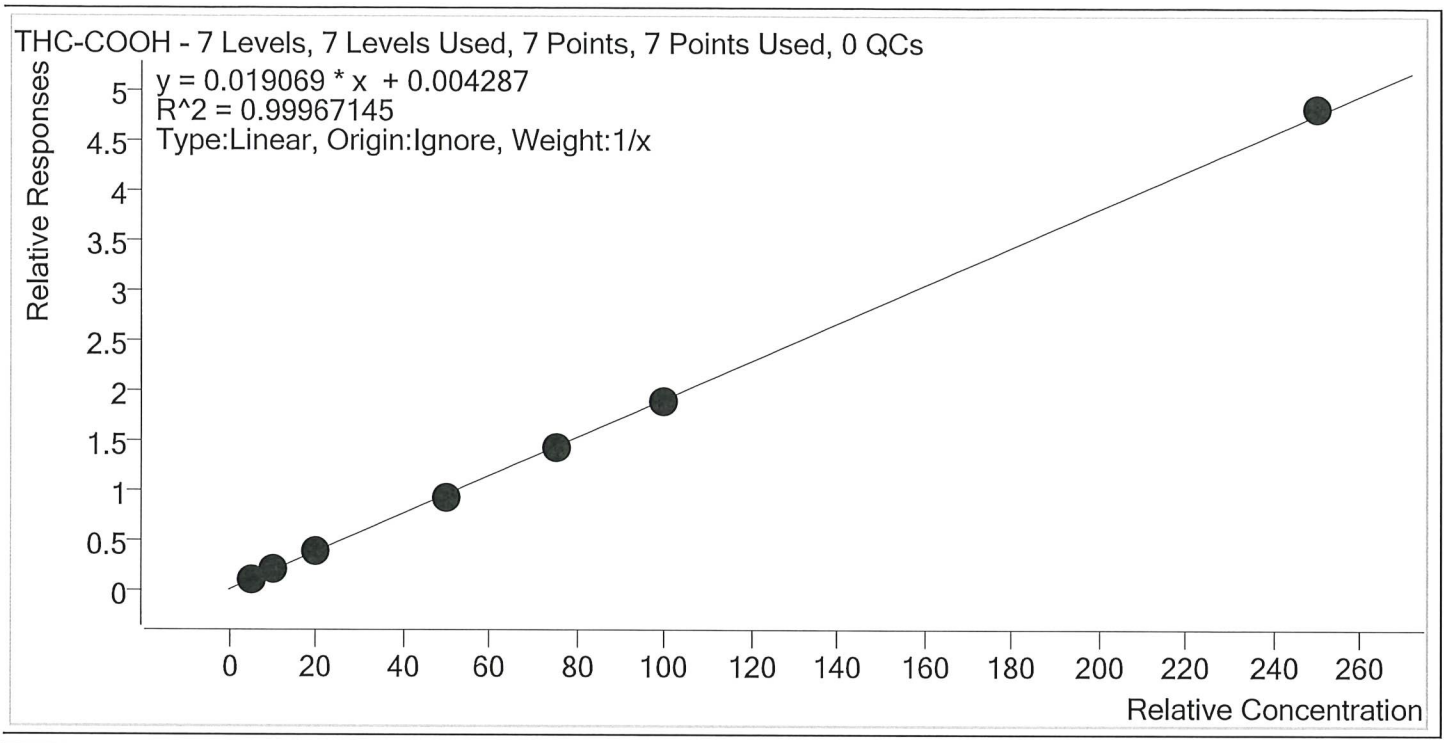
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	1.0	1.0	103.0
MJ Cal 2	2	✓	3.0	2.9	95.5
MJ Cal 3	3	✓	5.0	5.3	106.0
MJ Cal 4	4	✓	10.0	10.3	102.6
MJ Cal 5	5	✓	25.0	22.9	91.6
MJ Cal 6	6	✓	50.0	49.6	99.2
MJ Cal 7	7	✓	100.0	102.0	102.0

Generated at 1:08 PM on 2/16/2021

SJ

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Last Cal. Update	2/16/2021 1:07 PM
Analyst Name	ISP\datastor
Analyte	THC-COOH
Internal Standard	THC-COOH-D9

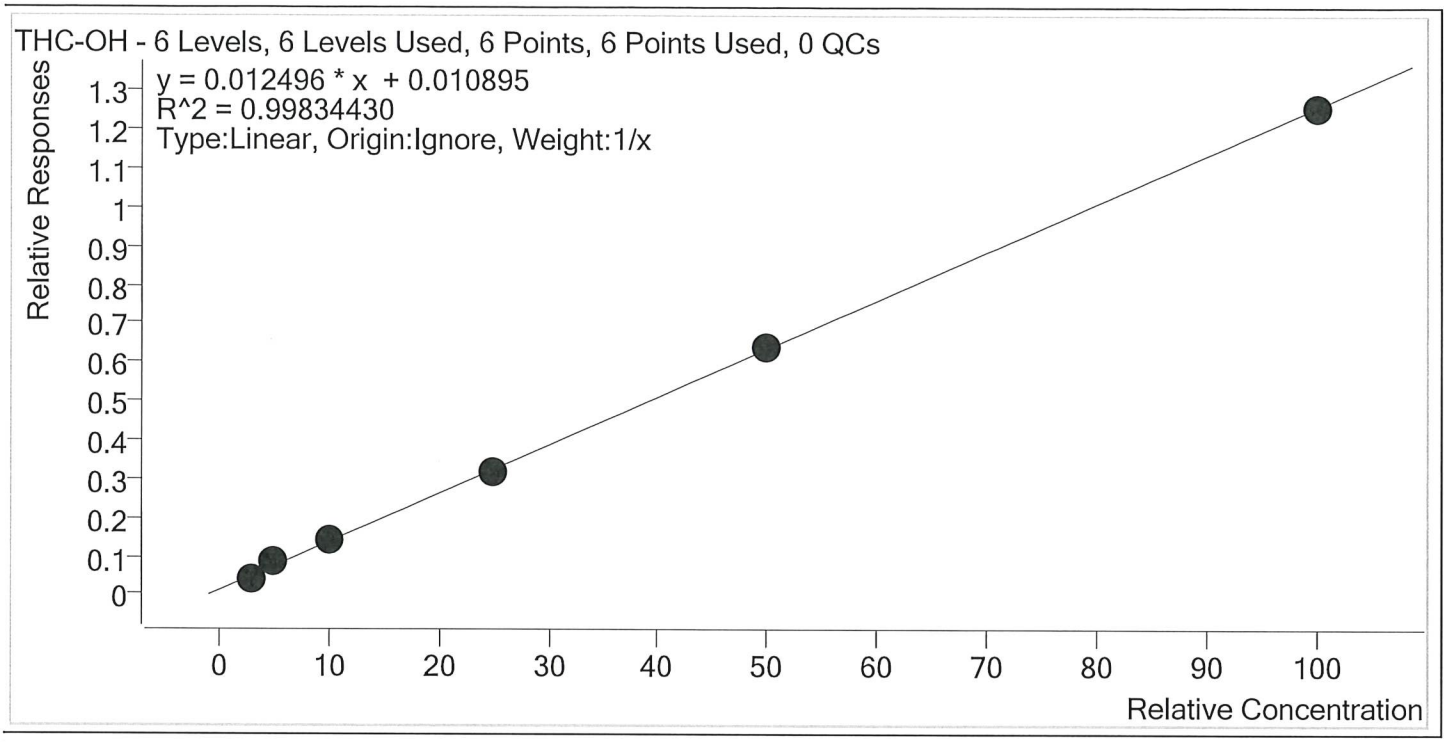


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.3	106.7
MJ Cal 2	2	✓	10.0	9.9	98.6
MJ Cal 3	3	✓	20.0	19.5	97.5
MJ Cal 4	4	✓	50.0	48.6	97.1
MJ Cal 5	5	✓	75.0	75.3	100.4
MJ Cal 6	6	✓	100.0	98.7	98.7
MJ Cal 7	7	✓	250.0	252.8	101.1

SJ

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Last Cal. Update 2/16/2021 1:07 PM
Analyst Name ISP\datastor
Analyte THC-OH **Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 2	2	✓	3.0	2.5	82.3
MJ Cal 3	3	✓	5.0	5.8	115.6
MJ Cal 4	4	✓	10.0	10.4	103.7
MJ Cal 5	5	✓	25.0	24.7	98.6
MJ Cal 6	6	✓	50.0	50.0	100.1
MJ Cal 7	7	✓	100.0	99.7	99.7

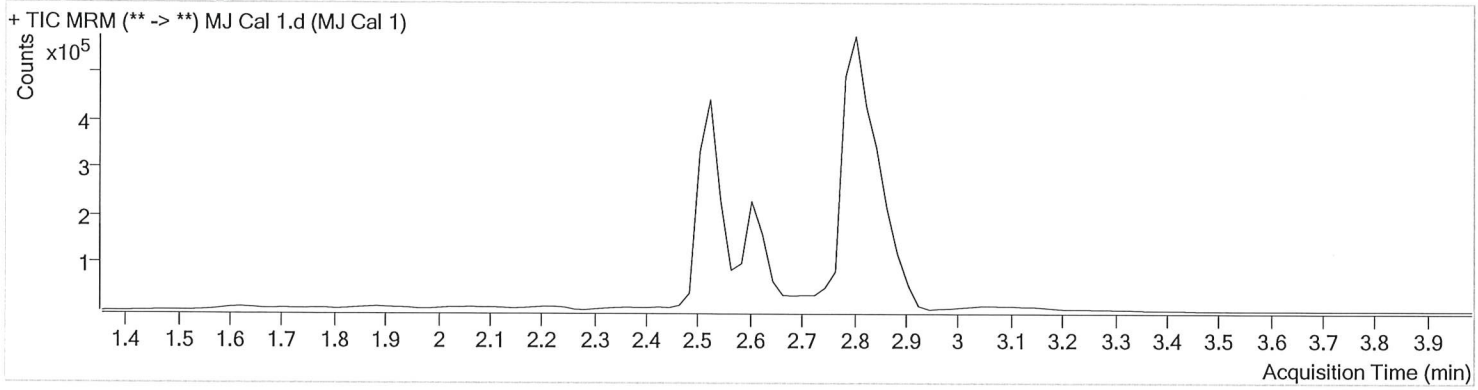
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 1:46:57 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2175	173767	1.0305	ng/ml	Low
THC-COOH	2.625	51280	483900	5.3325	ng/ml	

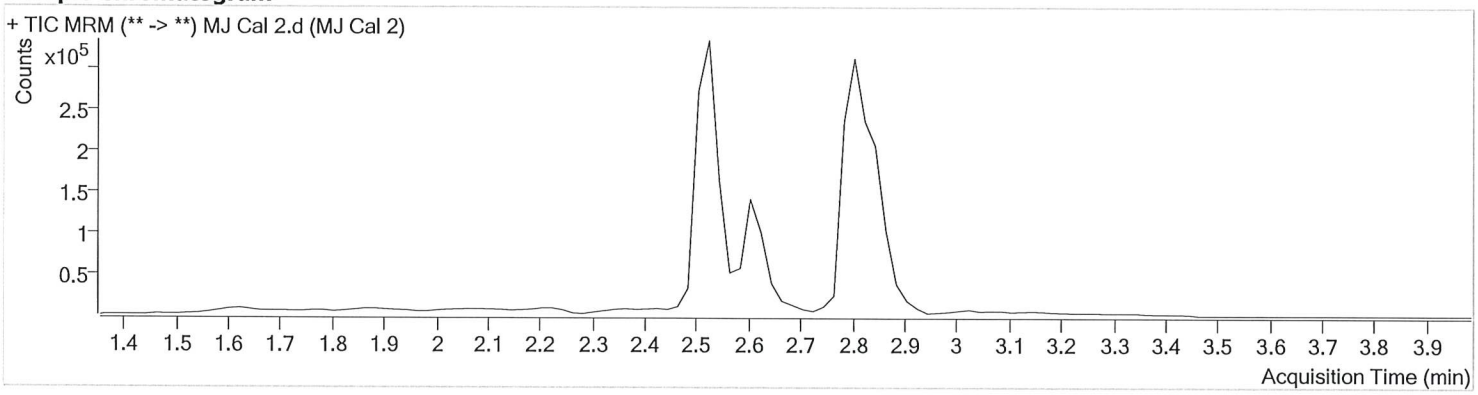
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 1:53:38 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2184	81619	2.8660	ng/ml	Low
THC-COOH	2.625	52736	274357	9.8552	ng/ml	
THC-OH	2.532	40676	974169	2.4696	ng/ml	Low

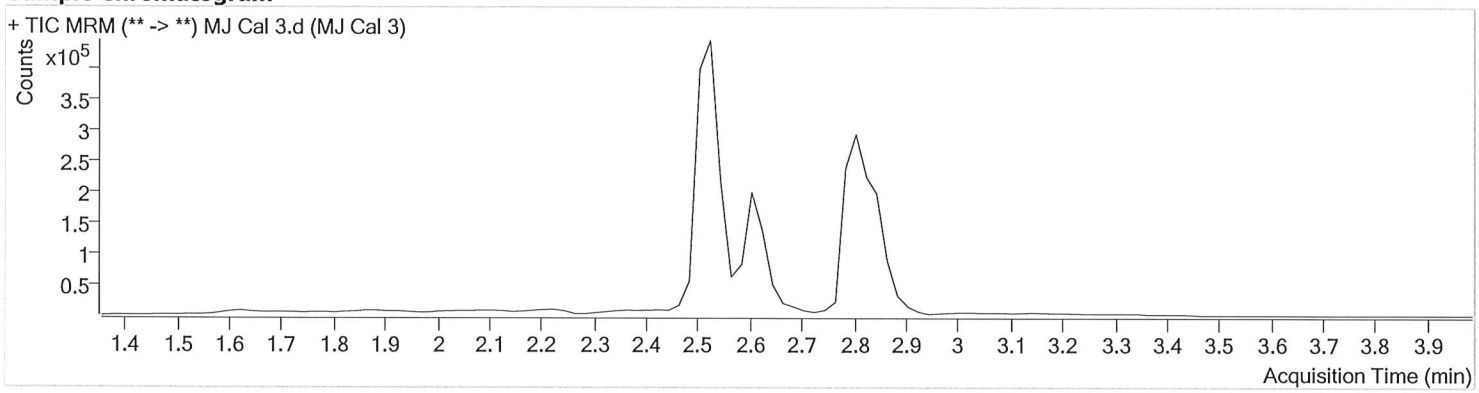
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:00:09 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	3916	85774	5.2995	ng/ml
THC-COOH	2.625	119368	317467	19.4933	ng/ml
THC-OH	2.532	106771	1284317	5.7811	ng/ml

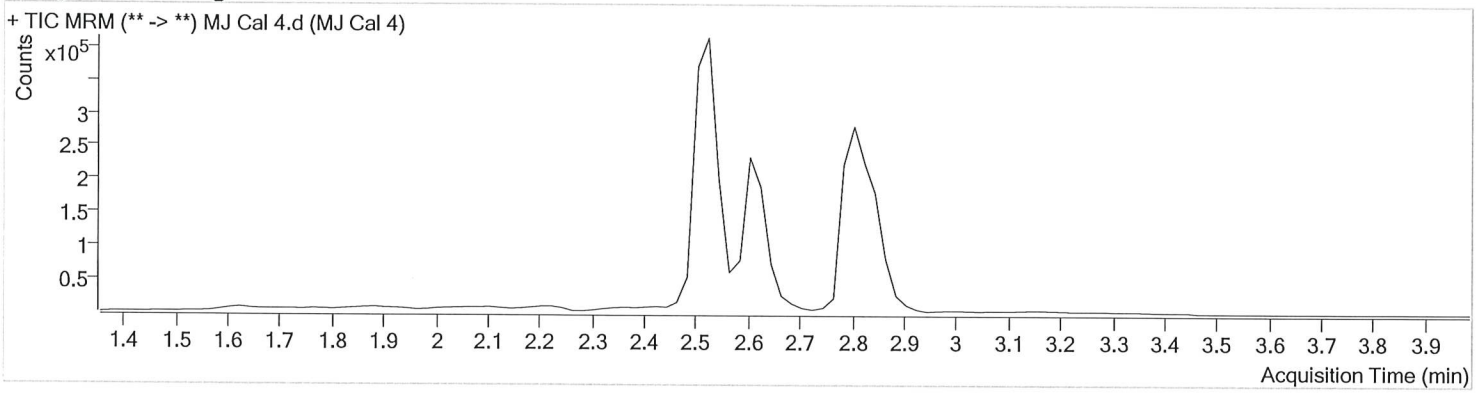
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:06:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	6112	72625	10.2617 ng/ml
THC-COOH	2.625	240499	258489	48.5668 ng/ml
THC-OH	2.532	159144	1133164	10.3673 ng/ml

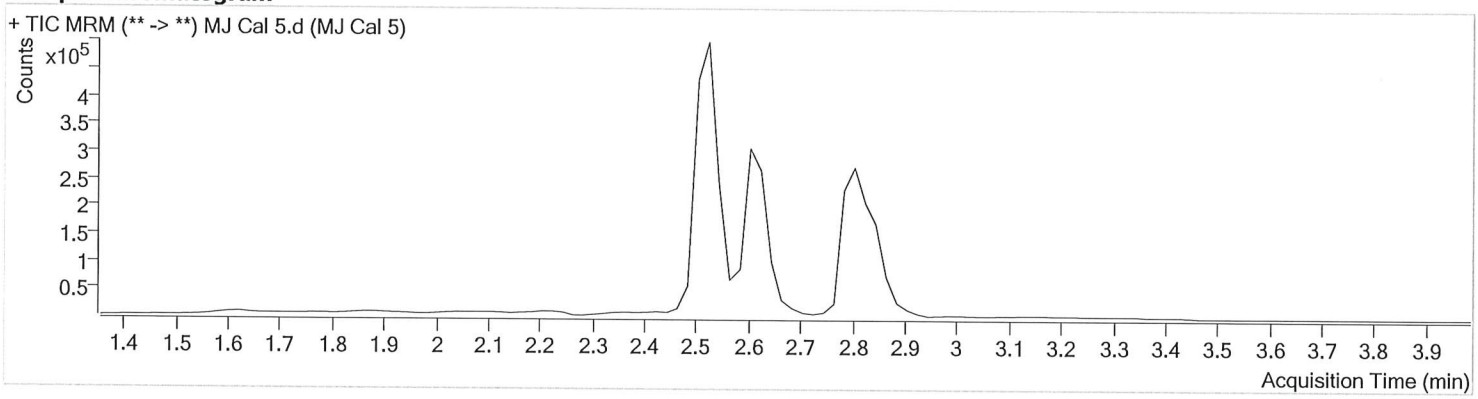
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:13:14 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	12952	71100	22.8895 ng/ml
THC-COOH	2.625	379566	263541	75.3043 ng/ml
THC-OH	2.532	364150	1141764	24.6516 ng/ml

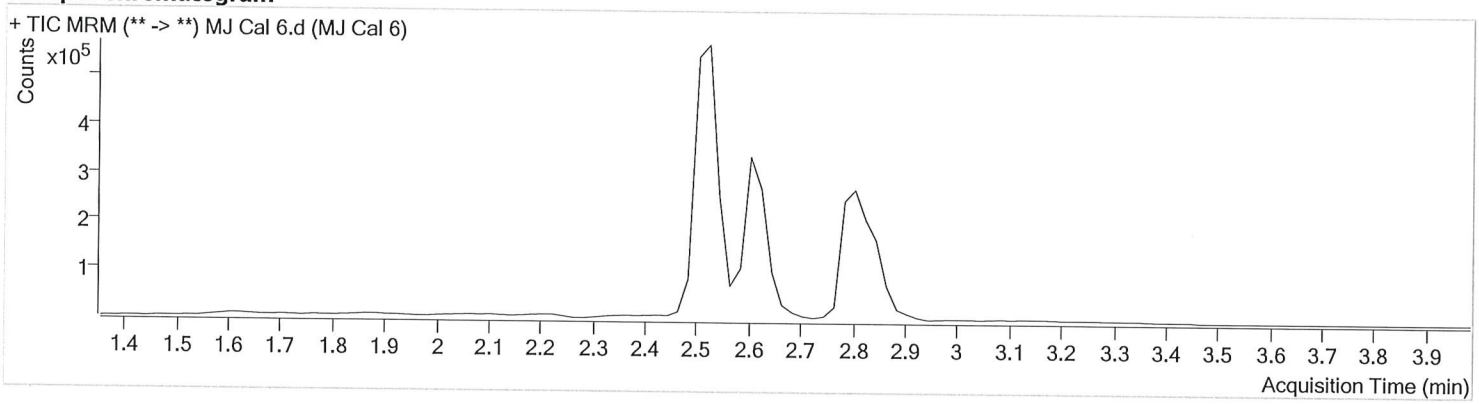
SJ

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update	2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:19:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	26284	67480	49.6042 ng/ml
THC-COOH	2.605	435697	230999	98.6872 ng/ml
THC-OH	2.532	646990	1016801	50.0493 ng/ml

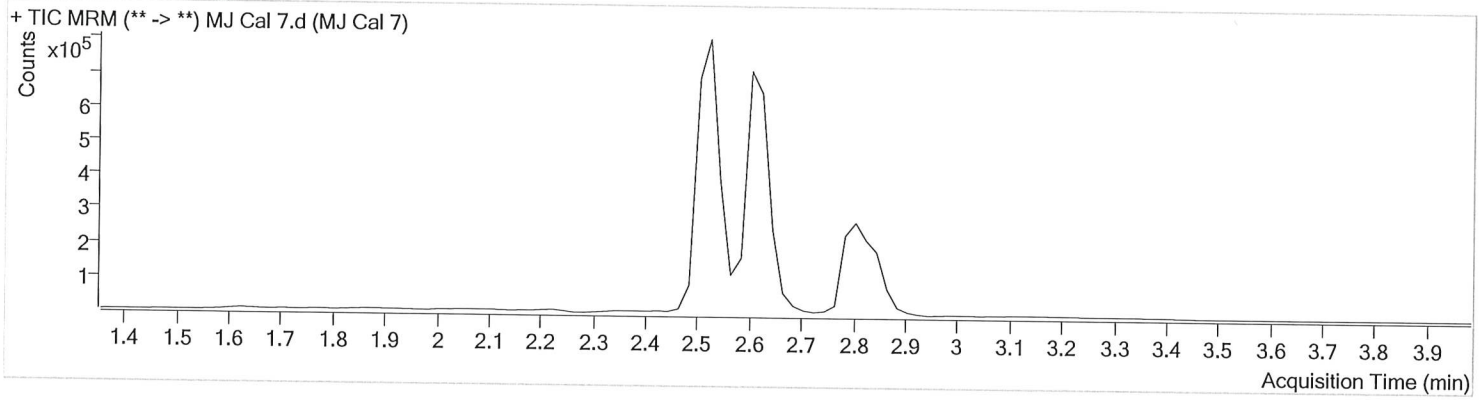
SJ

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\020121 AM 26 SJ\QuantResults\AM 26.batch.bin
Calibration Last Update 2/16/2021 1:07:30 PM

Instrument	Instrument 1	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	AM 26 THCS.m	**Operator**	Sophia Jackson
Sample Position	P1-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	2/1/2021 2:26:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	49877	62618	102.0487	ng/ml
THC-COOH	2.625	1157504	239939	252.7607	ng/ml
THC-OH	2.532	1319209	1049918	99.6811	ng/ml