REVIEWED
By Celena Shrum at 11:38 am, Jun 14, 2021

TS 6/9/2021

Worklist: 5031

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-5173	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2021-1933	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1536	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1565	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1592	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1603	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1605	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1612	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1614	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1699	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1833	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1865	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1866	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1869	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1870	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1899	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1902	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1903	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1911	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1927	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1928	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

Worklist: 5031

TS

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2021-1930	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1931	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1932	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1941	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1948	5	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2021-1951	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

	1	2	3	4	5	6	7	8	9	10	11	12
A	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1927-1	P2021-1865-1	P2021-1565-1
B	IS + Cal. 1	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1951-1	P2021-1911-1	P2021-1833-3	P2021-1536-1
C	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1948-5	P2021-1903-1	P2021-1699-1	M2021-1933-1
D	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1941-1	P2021-1902-1	P2021-1614-1	M2020-5173-1
E	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1932-1	P2021-1899-1	P2021-1612-1	External Control
F	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1931-1	P2021-1870-1	P2021-1605-1	Neg Blood
G	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1930-1	P2021-1869-1	P2021-1603-1	IS + Cal. 1
H	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	IS + Sample	P2021-1928-1	P2021-1866-1	P2021-1592-1	IS + Cal. 1

All wells to contain 60 µl of residual DMSO

TS

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

Extraction Date: 06/09/2021 Analyst: Tamara Salazar
Plate lot#: IDP-120-201206 Plate Re-Test Date: 06/06/2021—External control added
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 20L20723 **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 and urine** (if applicable) 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 urine+base (if applicable)** mixture to corresponding wells of SLE+ plate. Amount transferred: *300uL*
☒ 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 **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. If run contains urine, add 50µL 1% HCl in MeOH to wells and place plate cover on plate before drying.
☒ 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: External control added to the run due to extraction being complete after the recommended re-test date.

TS

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: 120320)

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

Component	***Source***	***Source Lot Number***	***Expiration Date***
Methanol (LCMS)	Fisher	197468	
O-desmethyl Tramadol	Cerilliant	FN01241702	04/30/2022
Amphetamine	Cerilliant	FE04061701	06/30/2022
Alprazolam	Cerilliant	FE07061604	07/31/2021
Prepared:	12/03/2020		
Prepared By:	Celena Shrum		
Expires:	07/31/2021		

Blood External Control Solution (Lot: WS060421)

100 µL of methanol external control solution was added to 9900 µL of blood.
External control ran with worklist 5028 on 06/04/2021 to determine concentrations.
Approximately 85ng/mL of each compound.

Component	***Source***	***Source Lot Number***
Negative Blood	Lampire	20L20723
Methanol External Control Solution		120320
Prepared:	06/04/2021	
Prepared by:	Celena Shrum	
Expires:	07/31/2021	

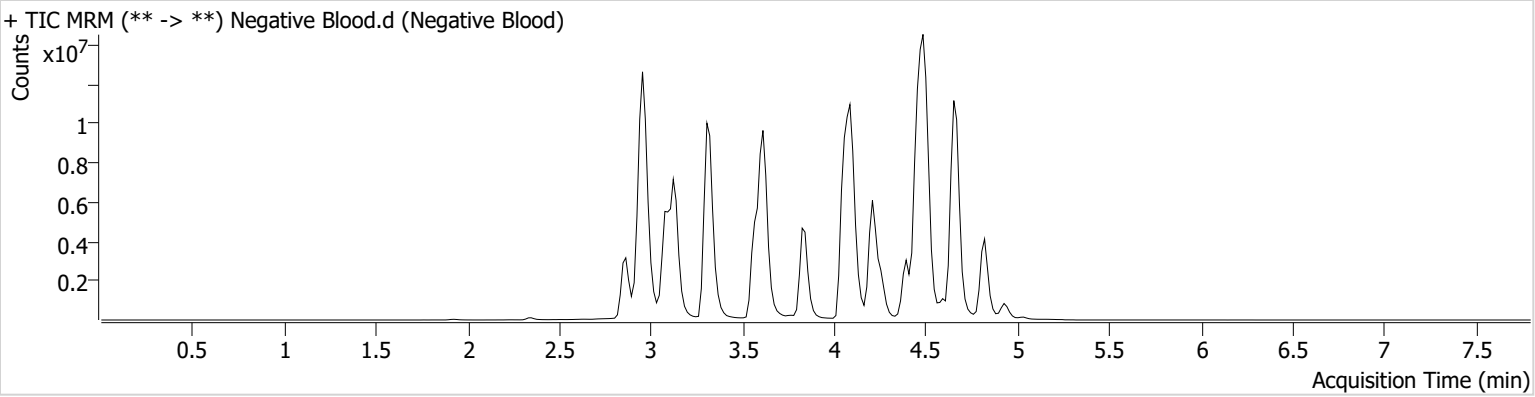
TS

AM #25 Multi-Drug Screen Results

Batch results	D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update	6/14/2021 7:11:05 AM

Instrument	Falco (069901)	**Data File**	Negative Blood.d
Type	Sample	**Sample**	Negative Blood
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P2-F12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/9/2021 8:19:54 PM		
Sample Info.			

Sample Chromatogram



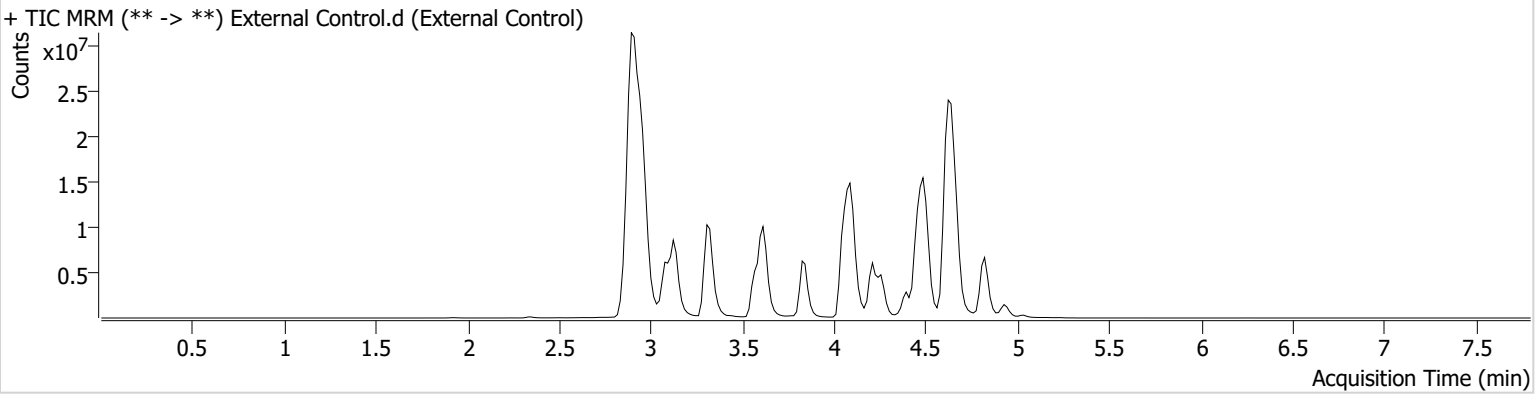
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 6/14/2021 7:11:05 AM

Instrument	Falco (069901)	**Data File**	External Control.d
Type	Sample	**Sample**	External Control
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P2-E12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/9/2021 8:28:18 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.626	37358444	27941.73	1434.00	35550093	61.3617
Amphetamine	2.905	31647989	2827.80	27613.74	11421349	67.8647
O-desmethyl-tramadol	2.930	49085641	172638.04	910.21	35877435	35.4278

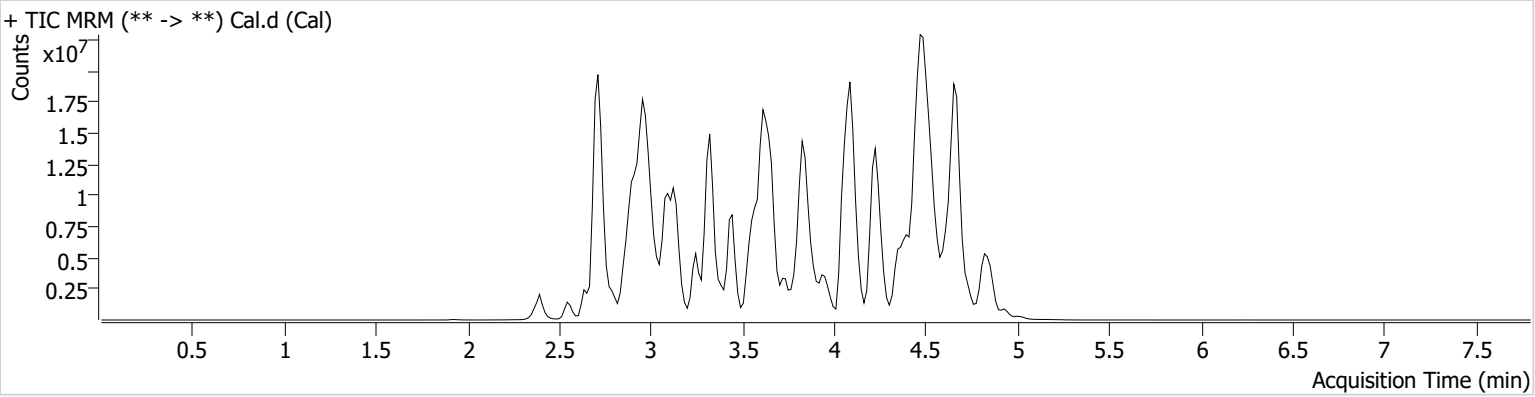
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 6/14/2021 7:11:05 AM

Instrument	Falco (069901)	**Data File**	Cal.d
Type	Cal	**Sample**	Cal
Acq. Method	AM 25 MDS.m	**Operator**	Tamara Salazar
Sample Position	P2-H12	**Comment**	
Injection Volume	5		
Acq. Date-Time	6/9/2021 8:11:20 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.999	103825	28078.04	97.60	3012187	10.0000
7-aminoclonazepam	3.584	2749580	2989.75	2602009.48	12791883	10.0000
7-aminoflunitrazepam	3.783	5170684	4376.75	805493.13	12791883	10.0000
Acetyl Fentanyl	4.025	176133	253.76	43025.01	35554962	10.0000
Acetyl Norfentanyl	2.901	566326	2744.86	368.11	35554962	10.0000
a-hydroxyalprazolam	4.515	678890	618.57	162142.93	12791883	10.0000
alpha-hydroxymidazolam	4.606	4083623	1810.49	1650182.96	12791883	10.0000
Alpha-PHP	3.895	4050663	12803.52	2463.63	35554962	10.0000
alpha-PVP	3.621	4991173	425.62	947.15	12193462	10.0000
Alprazolam	4.626	5801418	1010.39	572.96	33875327	10.0000
Amitriptyline	4.492	330724	17.52	54.27	1709107	10.0000
Amphetamine	2.905	4978652	1141.71	1079.98	12193462	10.0000
Benzoylecgonine	3.369	522110	221.74	40288.20	862370	10.0000
Brompheniramine	4.072	44144	198.14	86.49	31250688	10.0000
Buprenorphine	4.999	414818	462.37	33650.89	1845664	10.0000
Bupropion	3.865	4813546	506.46	718.29	17851730	10.0000
Carbamazepine	4.235	18651163	∞	1709.45	1413461	10.0000
Carisoprodol	4.217	2695029	77082.04	502.24	16569913	10.0000
Chlordiazepoxide	4.735	2064052	530.70	2347.74	33875327	10.0000
Chlorpheniramine	3.969	3699314	2015.80	840.82	31250688	10.0000
Citalopram	4.086	1850617	704.10	356565.77	31250688	10.0000
Clomipramine	4.701	781988	4746.67	2203.61	31250688	10.0000
Clonazepam	4.440	2713216	1407.60	709447.56	33875327	10.0000
Clonazolam	4.375	3559501	2193921.87	760134.37	33875327	10.0000
Cocaethylene	3.826	6622270	32624.13	2251.49	33156682	10.0000
Cocaine	3.629	6601433	4403642.11	439.00	33156682	10.0000
Codeine	2.912	628418	2080.31	497.75	17827430	10.0000
Cyclobenzaprine	4.400	618025	130.46	22.14	1709107	10.0000
Desipramine	4.401	1036191	2983.91	111.02	1709107	10.0000
Dextromethorphan	4.124	865433	327.56	235.00	4743668	10.0000
Dextrorphan	3.387	3060595	518.87	1002009.44	4743668	10.0000
Diazepam	4.859	2051215	2802.34	3052.71	33875327	10.0000
Dihydrocodeine	2.789	1656005	4003.22	391.56	17827430	10.0000
Diphenhydramine	4.064	4843858	1935.60	368.19	31250688	10.0000

TS

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Doxepin	4.199	532602	102.25	24.73	13927136	10.0000
Doxylamine	3.662	12659615	274.27	614.75	4743668	10.0000
EDDP	4.092	1510965	279.96	233.31	3372806	10.0000
Estazolam	4.535	12404540	2282.24	1914.00	33875327	10.0000
Etizolam	4.636	735499	725134.11	2755514.47	33875327	10.0000
Fentanyl	4.269	87188	35.74	208.57	5850656	10.0000
Flualprazolam	4.484	1873722	10767.78	2282.78	33875327	10.0000
Flunitrazepam	4.564	6139583	1564.49	14186.95	33875327	10.0000
Fluoxetine	4.350	609060	582090.47	56.96	1790451	10.0000
Flurazepam	4.329	2472630	1509331.35	424342.87	33875327	10.0000
Hydrocodone	3.109	2505209	7499.11	1078.48	17827430	10.0000
Hydromorphone	2.549	2351108	1031.37	4580.19	326577	10.0000
Imipramine	4.445	1300323	10355.45	40.68	1709107	10.0000
Ketamine	3.743	6132482	800.47	326.67	25464174	10.0000
Lamotrigine	3.633	450878	915.40	14713.76	31250688	10.0000
Levamisole	3.054	4071659	340.13	415.96	33156682	10.0000
Levetiracetam	2.644	2436278	1252.44	1715.76	31250688	10.0000
Lorazepam	4.439	1186534	616.40	542.41	33875327	10.0000
Maprotiline	4.492	196751	34.15	53.75	1709107	10.0000
MDA	3.010	3574757	199.37	287.64	26036764	10.0000
MDEA	3.253	4855878	376.04	628.16	26036764	10.0000
MDMA	3.101	6705093	1464.84	383.35	26036764	10.0000
Meperidine	3.649	2691672	389.54	5386.14	4743668	10.0000
Meprobamate	3.668	1520188	908.30	114.41	16569913	10.0000
Methadone	4.426	2536891	15097.30	500.56	3372806	10.0000
Methamphetamine	3.011	6207655	1468.04	274.57	26036764	10.0000
Methocarbamol	3.573	837560	515.18	492216.13	3372806	10.0000
Methylphenidate	3.543	11445852	948.40	621.09	21502546	10.0000
Metoprolol	3.448	898662	283.71	1012700.37	4743668	10.0000
Midazolam	4.776	799118	483933.24	1266547.28	33875327	10.0000
Mirtazapine	4.248	2198048	2163.71	916.99	4743668	10.0000
Mitragynine	4.328	171573	237267.57	233770.11	4743668	10.0000
Morphine	2.367	449563	1310.73	640.78	326577	10.0000
Norbuprenorphine	3.868	41276	17248.28	11349.07	1845664	10.0000
Nordiazepam	4.707	2984188	3570.81	987.80	33875327	10.0000
Norfentanyl	3.329	9485739	459.96	183.27	35554962	10.0000
Norhydrocodone	2.944	58203	24.97	451.71	326577	10.0000
Norketamine	3.851	1300614	325.01	70257.61	25464174	10.0000
Normeperidine	3.605	1432493	753.87	662.53	31250688	10.0000
Noroxycodone	2.896	2306548	192.06	419.40	25464174	10.0000
Nortriptyline	4.448	313258	2694.55	52.20	1709107	10.0000
O-desmethyl-tramadol	2.915	12068359	42183.06	348.09	31250688	10.0000
Olanzapine	3.551	13908	6409.32	2255.88	1413461	10.0000
Oxazepam	4.521	5231986	1287.44	468.18	22370442	10.0000
Oxycodone	2.970	5017386	1228.12	2329.19	25464174	10.0000
Oxymorphone	2.393	2212326	688.62	442.57	326577	10.0000
Paroxetine	4.377	81189	87.31	15933.02	1790451	10.0000
Phenazepam	4.651	4487476	1177.35	1892489.78	33875327	10.0000
Phencyclidine	3.941	4197613	6044.58	∞	4743668	10.0000
Phentermine	3.164	1714062	173.22	16.88	21502546	10.0000
Phenytoin	4.126	2509783	5045.60	2358.43	1413461	10.0000
Promethazine	4.429	1698748	1442065.61	199.10	31250688	10.0000
Pseudoephedrine	2.720	53043822	1186.42	2062.71	26036764	10.0000
Quetiapine	4.665	2688286	1283.80	407.47	43919443	10.0000
Sertraline	4.596	302860	6554.66	732.82	1790451	10.0000
Sufentanil	4.680	61310	32293.88	30.06	35554962	10.0000
Tapentadol	3.453	7245447	1563.44	1570.23	25464174	10.0000
Temazepam	4.673	8725672	1400.39	314.67	33875327	10.0000
Tramadol	3.433	12681780	1391.10	132.66	31250688	10.0000
Trazodone	4.849	2957080	322.85	411.26	13927136	10.0000

Cal

TS

AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Venlafaxine	3.815	8427907	966.30	398.91	1790451	10.0000
Zaleplon	4.351	5343540	3940.39	630.86	43919443	10.0000
Zolpidem	4.473	15681229	6917215.08	24476.30	43919443	10.0000
Zopiclone	4.405	1666523	888.66	638604.77	8582319	10.0000

TS

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

Extraction Date: 06/09/2021 Analyst: Tamara Salazar
Plate lot#: IDP-108-2-210412 Plate Re-Test Date: 10/12/21
Mobile phase A: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile
Blank Blood Lot: Lampire 20L20723 **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 and urine (if applicable) (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, 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: 800uL
☒ 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:

TS

	1	2	3	4	5	6
A	IS + Cal. 1	Neg Blood	P2021-1612-1	P2021-1899-1	P2021-1932-1	
B	IS + Cal. 2	M2020-5173-1	P2021-1614-1	P2021-1902-1	P2021-1941-1	
C	IS + Cal. 3	M2021-1933-1	P2021-1699-1	P2021-1903-1	P2021-1948-5	
D	IS + Cal. 4	P2021-1536-1	P2021-1833-3	P2021-1911-1	P2021-1951-1	
E	IS + Cal. 5	P2021-1565-1	P2021-1865-1	P2021-1927-1	P2021-1605-1	
F	IS + Cal. 6	P2021-1592-1	P2021-1866-1	P2021-1928-1		
G	IS + Cal. 7	P2021-1603-1	P2021-1869-1	P2021-1930-1		
H	IS + QC_1	Sample moved during step 6 to E5	P2021-1870-1	P2021-1931-1		

All wells to contain 100 µl of residual DMSO

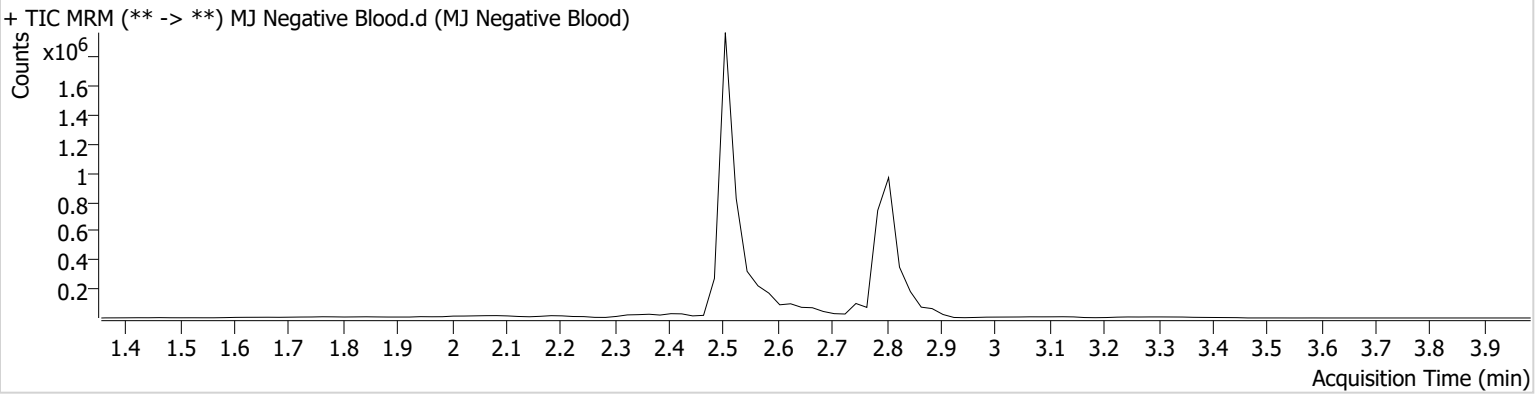
TS

AM #26 Cannabinoids Screen Results

Batch results	D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update	6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Negative Blood.d
Type	Sample	**Sample**	MJ Negative Blood
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-A2	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:48:59 PM		
Sample Info.			

Sample Chromatogram



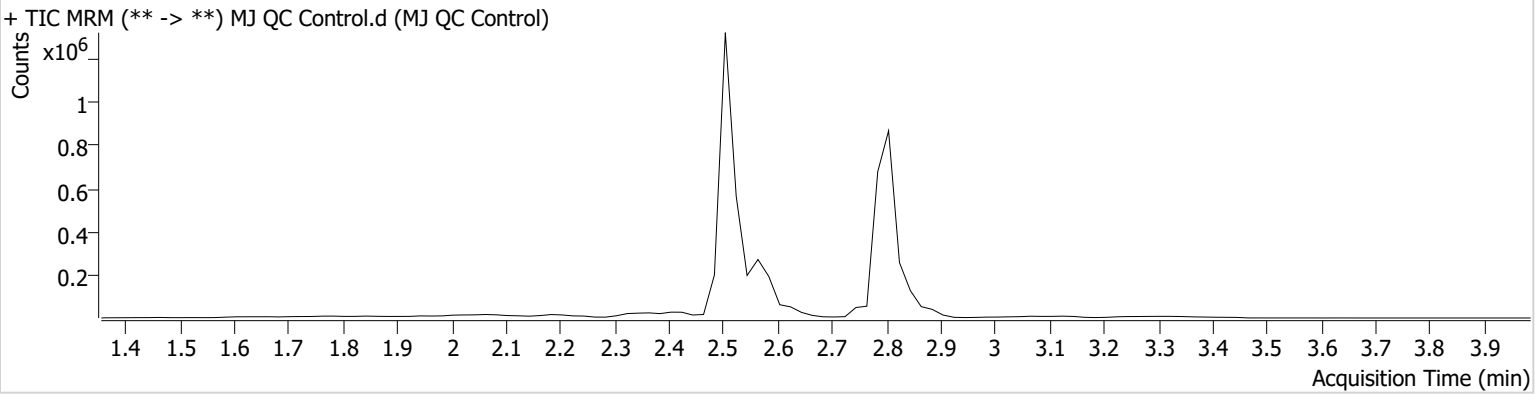
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ QC Control.d
Type	Sample	**Sample**	MJ QC Control
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-H1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:35:54 PM		
Sample Info.			

Sample Chromatogram

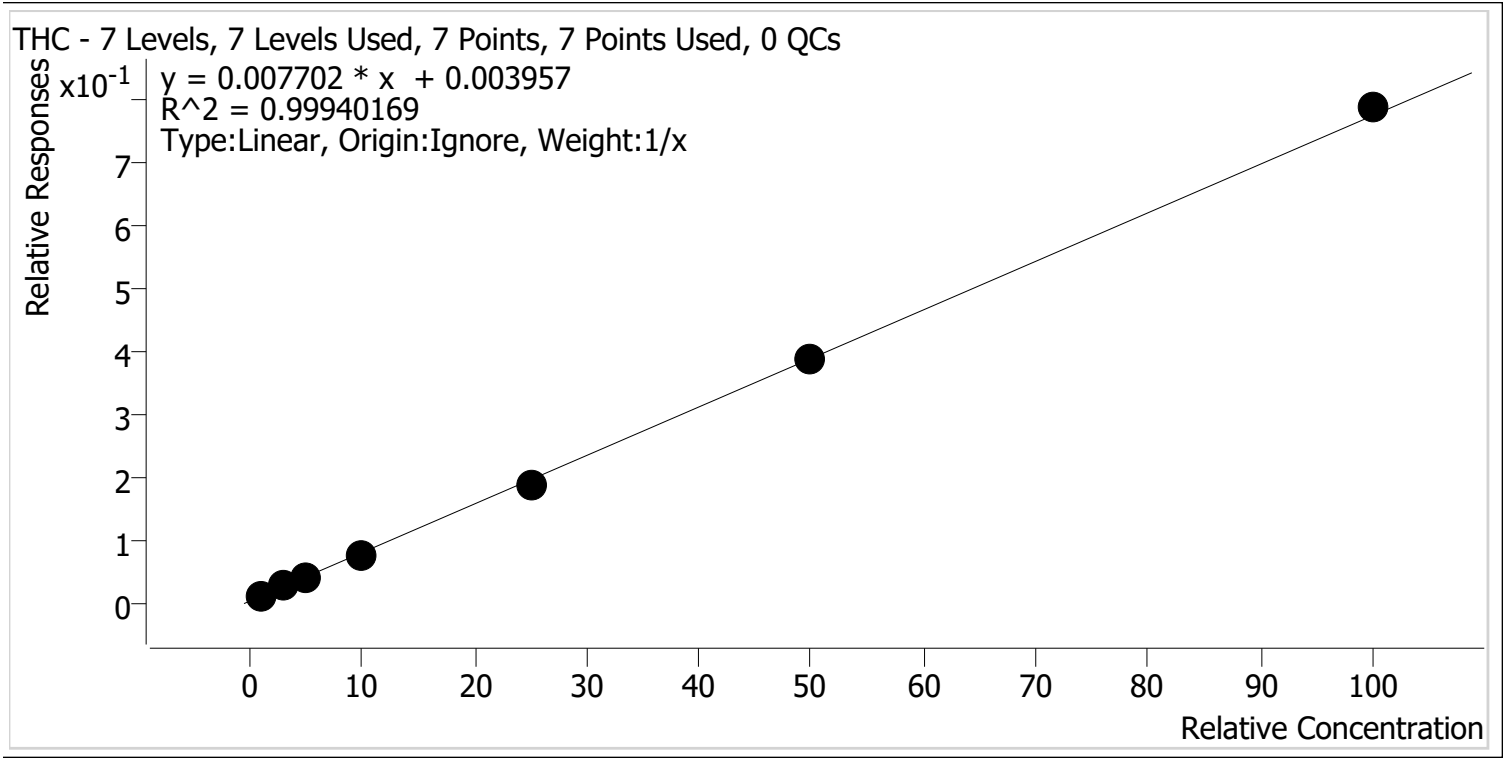


Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	3651	93978	4.5307	ng/ml
THC-COOH	2.567	139691	294251	29.3405	ng/ml
THC-OH	2.514	20008	2353679	4.9244	ng/ml

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	6/10/2021 7:15 AM
Analyst Name	ISP\datastor
Analyte	THC
Internal Standard	THC-D3

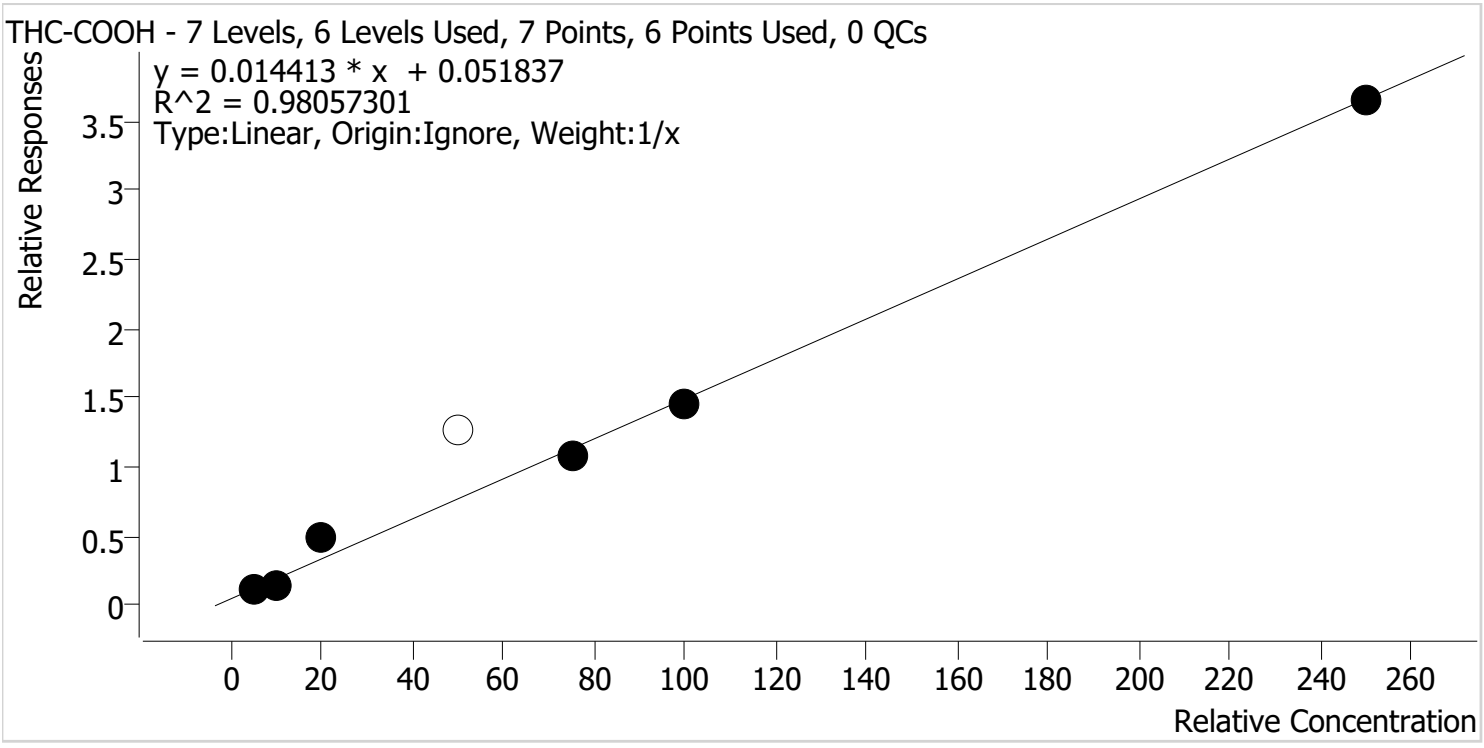


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	1.0	1.1	111.2
MJ Cal 2	2	✔	3.0	3.0	99.8
MJ Cal 3	3	✔	5.0	4.7	94.6
MJ Cal 4	4	✔	10.0	9.7	97.0
MJ Cal 5	5	✔	25.0	24.1	96.2
MJ Cal 6	6	✔	50.0	49.8	99.6
MJ Cal 7	7	✔	100.0	101.6	101.6

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 6/10/2021 7:15 AM
Analyst Name ISP\datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

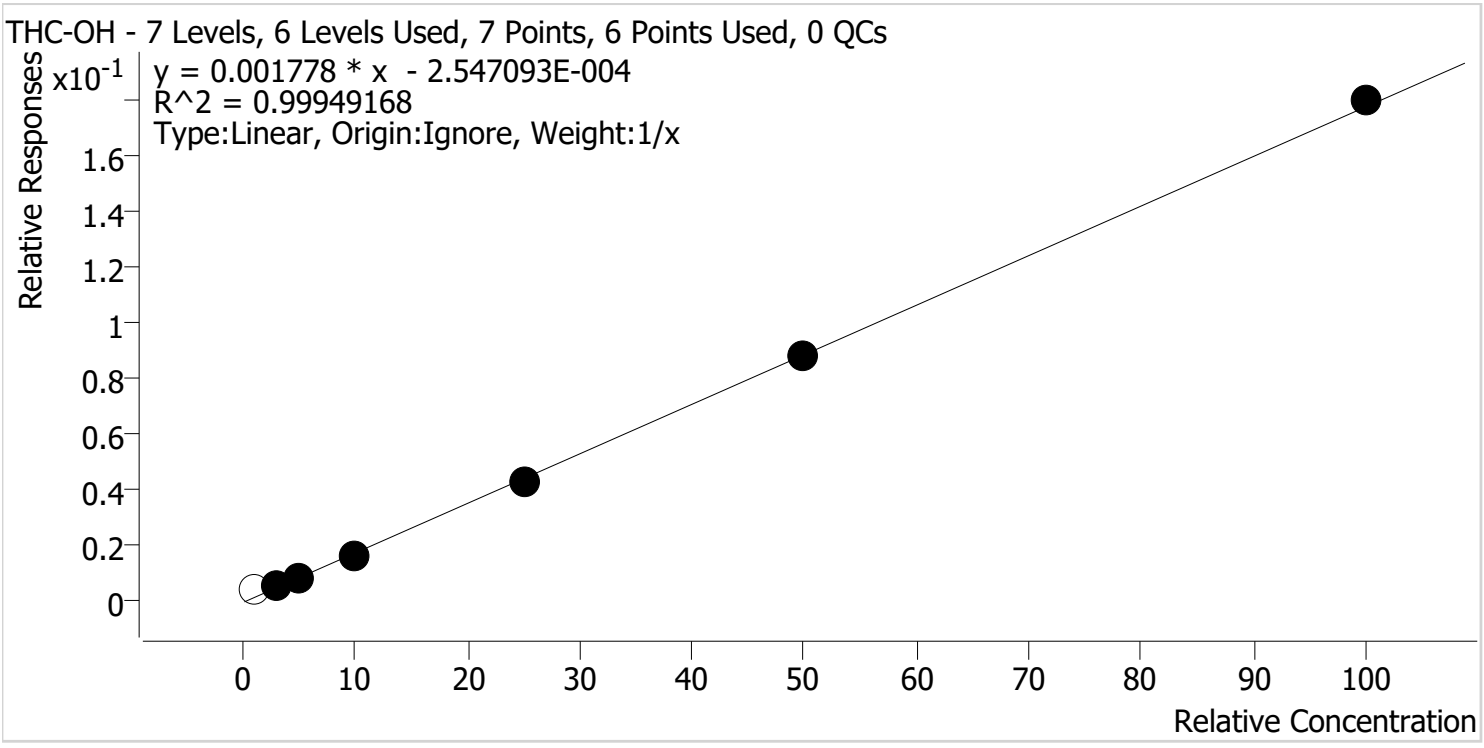


Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✔	5.0	5.0	99.2
MJ Cal 2	2	✔	10.0	5.6	56.3
MJ Cal 3	3	✔	20.0	30.1	150.7
MJ Cal 4	4	✗	50.0	85.1	170.2
MJ Cal 5	5	✔	75.0	71.9	95.8
MJ Cal 6	6	✔	100.0	98.2	98.2
MJ Cal 7	7	✔	250.0	249.2	99.7

TS

AM #26 Cannabinoids Screen Calibration Curve Report

Batch results	D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Last Cal. Update	6/10/2021 7:15 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	2.8	280.1
MJ Cal 2	2	✔	3.0	3.1	104.6
MJ Cal 3	3	✔	5.0	5.1	101.4
MJ Cal 4	4	✔	10.0	9.7	97.0
MJ Cal 5	5	✔	25.0	24.0	96.0
MJ Cal 6	6	✔	50.0	49.9	99.7
MJ Cal 7	7	✔	100.0	101.2	101.2

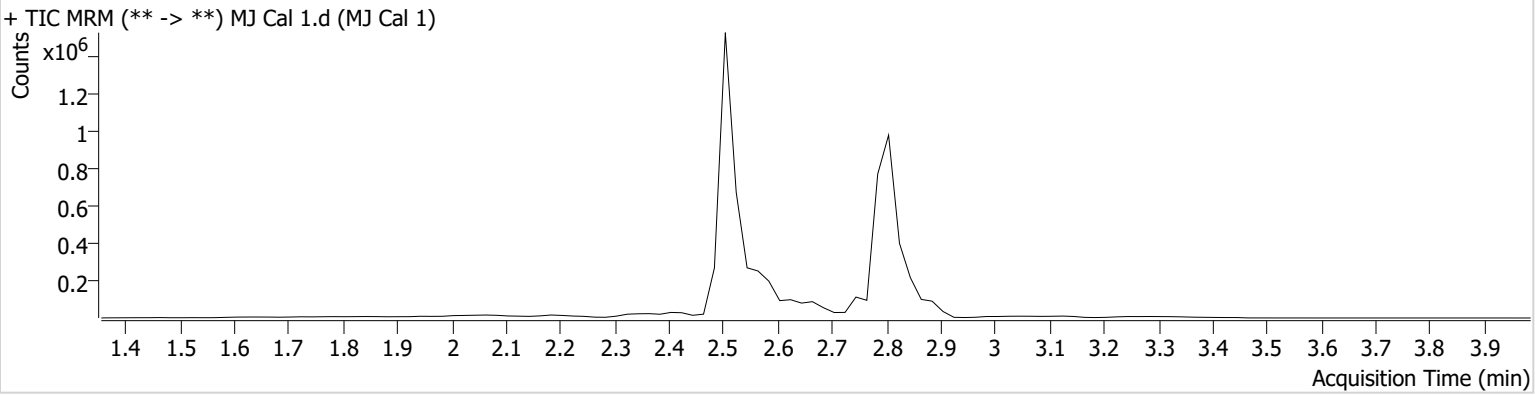
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 1.d
Type	Cal	**Sample**	MJ Cal 1
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-A1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 2:50:01 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2006	160149	1.1123	ng/ml	**Low**
THC-COOH	2.567	53586	434404	4.9619	ng/ml	**Low**
THC-OH	2.514	13089	2770021	2.8010	ng/ml	**Low**

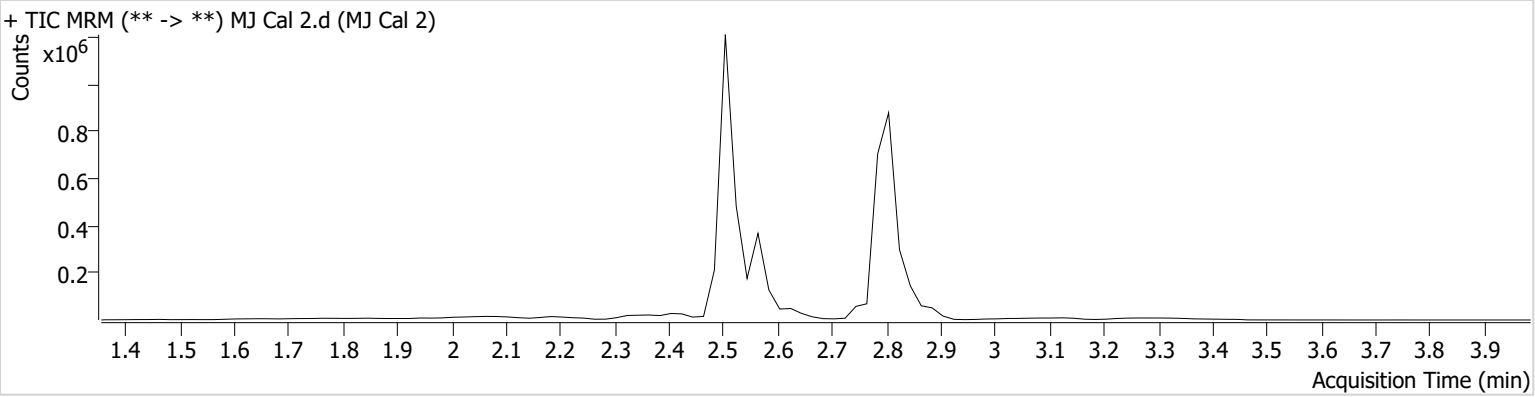
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 2.d
Type	Cal	**Sample**	MJ Cal 2
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-B1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 2:56:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.859	2851	105573	2.9930	ng/ml	**Low**
THC-COOH	2.567	66784	502113	5.6314	ng/ml	
THC-OH	2.514	11744	2205667	3.1379	ng/ml	

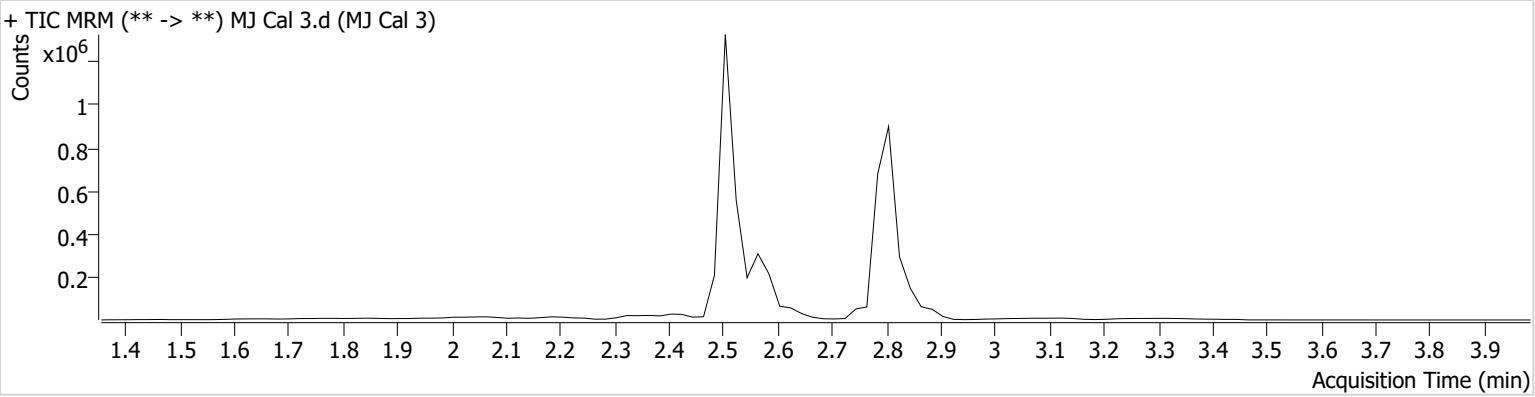
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 3.d
Type	Cal	**Sample**	MJ Cal 3
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-C1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:03:14 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	4315	106839	4.7300	ng/ml
THC-COOH	2.567	156718	322219	30.1479	ng/ml
THC-OH	2.514	20715	2364048	5.0714	ng/ml

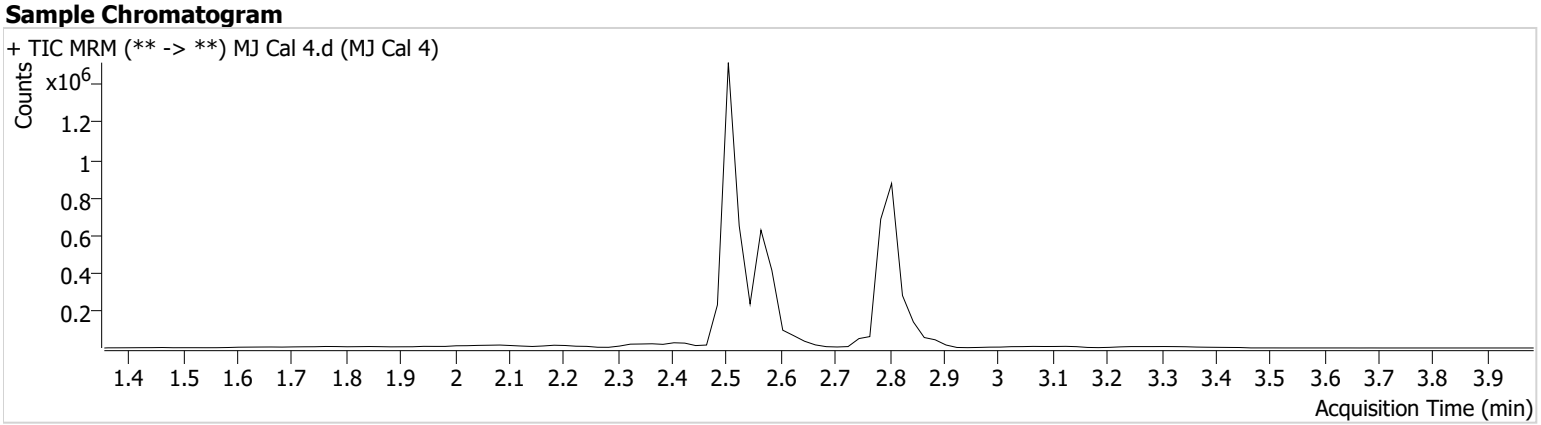
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 4.d
Type	Cal	**Sample**	MJ Cal 4
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-D1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:09:45 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	7924	100758	9.6972	ng/ml
THC-COOH	2.567	421950	330067	85.0972	ng/ml
THC-OH	2.514	43188	2540474	9.7045	ng/ml

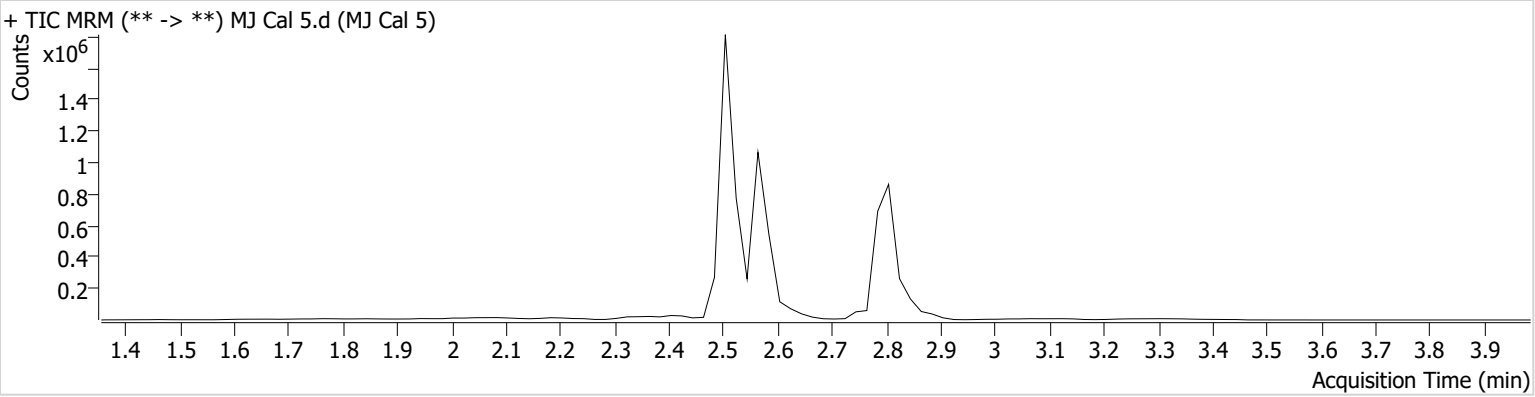
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 5.d
Type	Cal	**Sample**	MJ Cal 5
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-E1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:16:17 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	17739	93741	24.0566 ng/ml
THC-COOH	2.567	613390	563953	71.8655 ng/ml
THC-OH	2.514	107292	2530120	23.9935 ng/ml

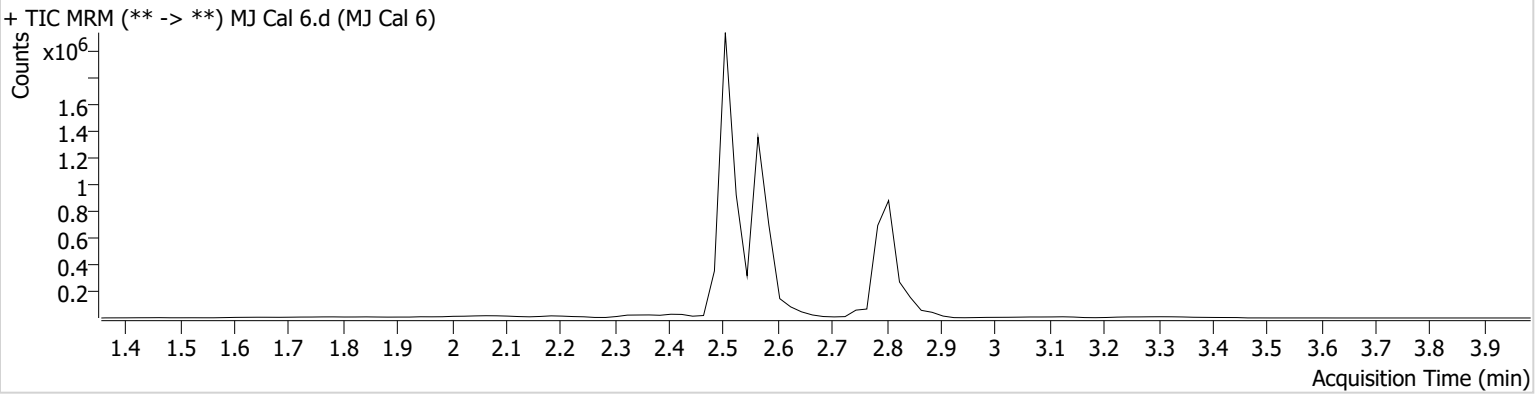
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 6.d
Type	Cal	**Sample**	MJ Cal 6
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-F1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:22:48 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	36752	94855	49.7954	ng/ml
THC-COOH	2.567	837562	570757	98.2157	ng/ml
THC-OH	2.514	208280	2356075	49.8625	ng/ml

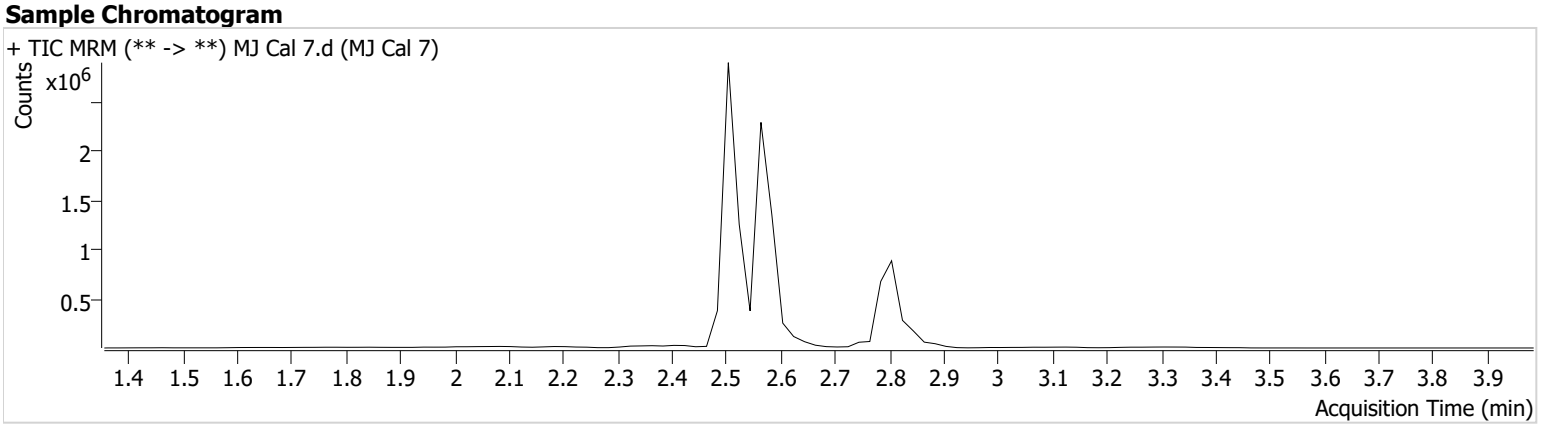
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2021\AM 25-26\060921 AM 25 26 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 6/10/2021 7:15:36 AM

Instrument	Falco (069901)	**Data File**	MJ Cal 7.d
Type	Cal	**Sample**	MJ Cal 7
Acq. Method	AM 26 THCS.m	**Operator**	Tamara Salazar
Sample Position	P1-G1	**Comment**	
Injection Volume	10		
Acq. Date-Time	6/9/2021 3:29:21 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	69674	88581	101.6156	ng/ml
THC-COOH	2.567	1709532	469223	249.1775	ng/ml
THC-OH	2.514	391021	2175564	101.2302	ng/ml