

BS

Worklist: 4195

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2019-4692	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1137	51	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1161	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1233	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1239	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1303	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1306	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
M2020-1343	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0612	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0865	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-0903	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1017	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1045	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1121	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1126	3	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1141	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1153	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1180	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1181	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1223	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1225	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

Worklist: 4195

B

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
P2020-1226	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1227	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1228	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1243	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	
P2020-1247	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ	

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

13

Extraction Date: 04/28/2020
Plate Item #: IDP-107 Plate Lot#: 190725

Analyst: Tamara Salazar
Plate Expiration: 01/25/2020—Ok, deviation in place

Mobile phase A: 10mM Amm Form
0.5M Ammonium Hydroxide
Blank Blood Lot: Hemostat 445283-3
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 **250µL blood (calibrated pipette)** in wells of analytical (standards) plate. **Pipette ID: 42**
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **250µL 0.5M ammonium hydroxide** in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **300µL 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) 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.
SPE Dry ID: 067103
- 16. Reconstitute in **100µL 100% 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.
Worklist path: *D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wklst 4195 TS*
Batch Name: *AM 25*
- 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:

TS

**Idaho State Police
Forensic Services
Toxicology Discipline**

Request for Departure from an Analytical Method

Date of Request
01/13/2020

Forensic Scientist
Celena Shrum

Analytical Methods
Toxicology AM #25, Toxicology AM #26/27, and AM #28

Deviation

The expiration dates listed for the current batch of PinPoint ToxBox extraction plates are as follows:

- *MDS (batch IDP-107-190725)- Expiration is 1/25/2020
- *THC (batch IDP-108-190716)- Expiration is 1/16/2020
- *MDQ P1 (batch IDP-111-190729)- Expiration is 1/29/2020
- *MDQ P2 (batch IDP-112-190730)- Expiration is 1/30/2020

I am issuing a deviation to allow for the use of the remaining plates of these batches. The controls will be used to evaluate if the plate is working as intended. In addition, at least one external control must be included for each run.

Celena Shrum

Date: 01/13/2020
Celena Shrum
Toxicology Discipline Lead



Idaho State Police Forensic Services

TS

**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: 031820)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>	<i>Expiration Date</i>
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		

Blood External Control Solution (Lot: WS031820)

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

<i>Component</i>	<i>Source</i>	<i>Source Lot Number</i>
Negative Blood	Hemostat	445283-3
Methanol External Control Solution		031820
Prepared:	03/18/20	
Prepared by:	Sarah Pickle	
Expires:	03/18/21	

TS



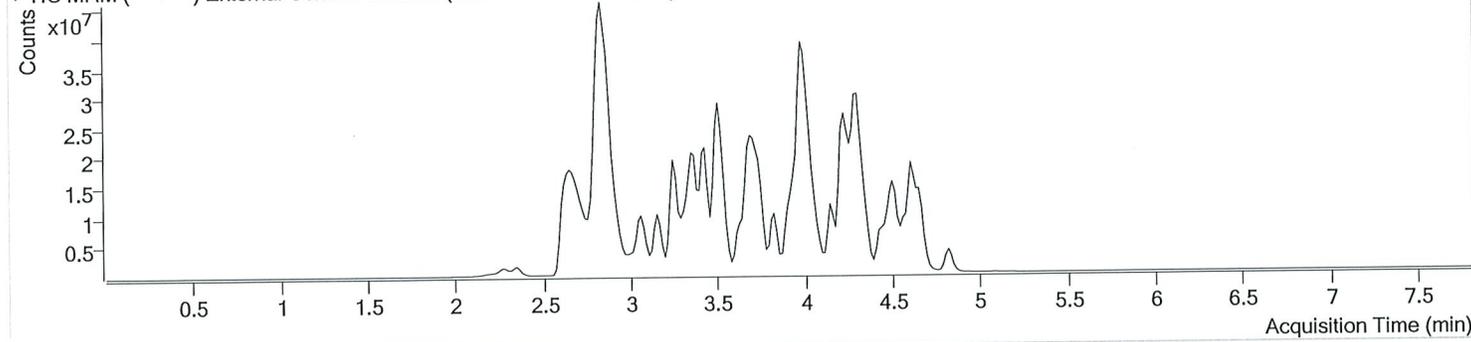
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/29/2020 1:16:24 PM

Instrument	Falco	Data File	External Control- Blood.d
Type	Sample	Sample	External Control- Blood
Acq. Method	am 25 all.m	Operator	Tamara Salazar
Sample Position	P1-D1	Comment	
Injection Volume	5		
Acq. Date-Time	4/28/2020 5:49:37 PM		

Sample Chromatogram

+ TIC MRM (** -> **) External Control- Blood.d (External Control- Blood)



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.610	21595818	∞	∞	6559872	106.6540
Amphetamine	2.828	27355883	612.95	∞	8580545	99.6877
O-desmethyl-tramadol	2.867	56922415	∞	106.59	42152186	54.5113

TS

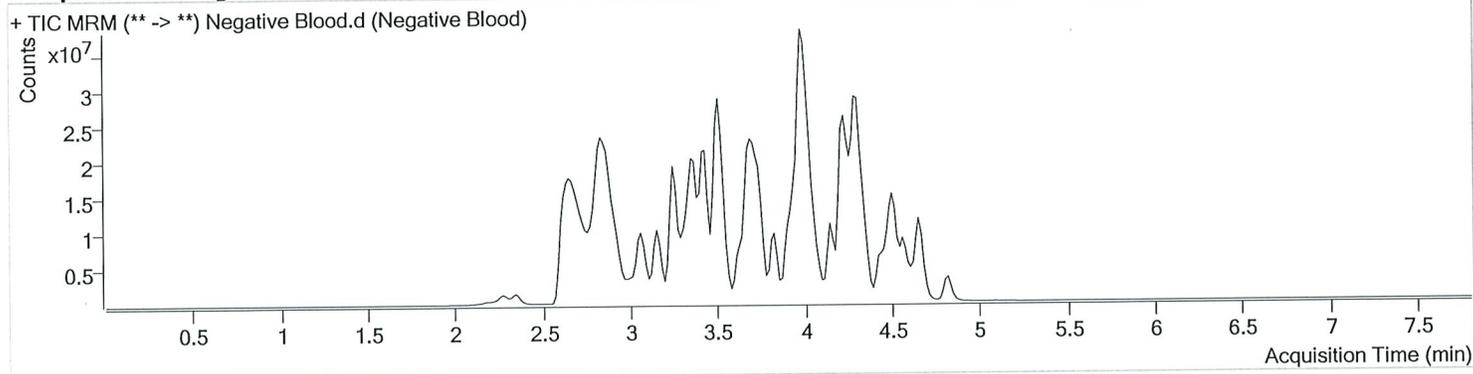


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 25.batch.bin
Calibration Last Update 4/29/2020 1:16:24 PM

Instrument	Falco	Data File	Negative Blood.d
Type	Sample	Sample	Negative Blood
Acq. Method	am 25 all.m	Operator	Tamara Salazar
Sample Position	P1-C1	Comment	
Injection Volume	5		
Acq. Date-Time	4/28/2020 5:41:17 PM		
Sample Info.			

Sample Chromatogram



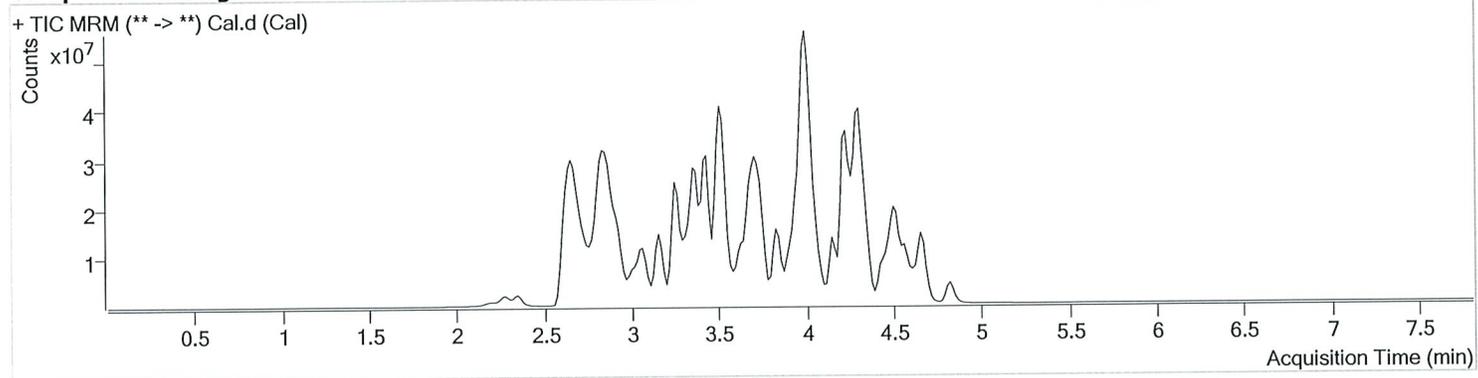


AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk\st 4195 TS\QuantResults\AM 25.batch.bin
 Calibration Last Update 4/29/2020 1:16:24 PM

Instrument	Falco	Data File	Cal.d
Type	Cal	Sample	Cal
Acq. Method	am 25 all.m	Operator	Tamara Salazar
Sample Position	P1-A1	Comment	
Injection Volume	5		
Acq. Date-Time	4/28/2020 5:32:48 PM		

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.799	59368	104.09	57.17	1719790	10.0000
7-aminoclonazepam	3.552	1968171	891.00	496.92	8135314	10.0000
7-aminoflunitrazepam	3.766	3554394	246.13	1842.45	21383797	10.0000
Acetyl Fentanyl	3.671	570086	206.24	297.96	33763534	10.0000
Acetyl Norfentanyl	2.839	402782	∞	80.76	19941999	10.0000
a-hydroxyalprazolam	4.515	234550	325.61	21.84	1253647	10.0000
alpha-hydroxymidazolam	4.498	1607623	748.47	238996.27	10287387	10.0000
alpha-PVP	3.436	6414392	7463.36	614.62	27819479	10.0000
Alprazolam	4.610	2382602	∞	∞	7718879	10.0000
Amitriptyline	4.338	4738629	2997.48	204.71	10711133	10.0000
Amphetamine	2.828	3140567	978.73	901.11	9820048	10.0000
Benzoylcegonine	3.367	1205643	199.46	642.72	5730806	10.0000
Buprenorphine	3.974	442241	196.71	106346.60	2357547	10.0000
Bupropion	3.634	5590240	878.20	∞	17846450	10.0000
Carbamazepine	4.235	7905383	337.10	1452.00	36081038	10.0000
Carisoprodol	4.217	1327054	2155.54	58.16	7574156	10.0000
Chlordiazepoxide	4.581	838294	∞	∞	21280415	10.0000
Chlorpheniramine	3.860	27965	33.43	∞	46472620	10.0000
Citalopram	3.978	2193052	2290.47	298113.35	10683510	10.0000
Clonazepam	4.440	1831114	40.63	19011.38	3193966	10.0000
Cocaine	3.489	7803415	3912461.53	321.22	33397295	10.0000
Codeine	2.697	412005	734.57	1123.80	1646048	10.0000
Cyclobenzaprine	4.262	4171580	∞	166.69	14605957	10.0000
Desipramine	4.294	5843462	334415.14	5559.57	29718754	10.0000
Dextromethorphan	3.984	1693985	127.80	937.56	8574509	10.0000
Dextrorphan	3.309	3783942	899.62	6431.65	23588180	10.0000
Diazepam	4.844	1105242	390.70	∞	6156521	10.0000
Dihydrocodeine	2.665	948501	1446.28	907.08	5608120	10.0000
Diphenhydramine	3.954	12681354	4735664.00	934.06	46472620	10.0000
Doxepin	4.060	3213620	∞	4.62 Low	19060823	10.0000
Doxylamine	3.522	14683691	∞	1297.38	45874852	10.0000
EDDP	4.013	6133967	∞	748.76	35656891	10.0000
Estazolam	4.535	6314802	∞	∞	18671378	10.0000
Etizolam	4.636	371676	528.45	5156.02	18671378	10.0000

Cal

AM #25 Multi-Drug Screen Results

TD



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	3.915	504025	427.69	98.24	28610320	10.0000
Flunitrazepam	4.563	3074163	∞	957.23	614030	10.0000
Fluoxetine	4.257	3816248	1074.41	156.33	16443206	10.0000
Flurazepam	4.036	2816498	1146.04	346573.52	614030	10.0000
Hydrocodone	2.880	1782759	312.49	94.37	11160296	10.0000
Hydromorphone	2.353	1644198	1323.29	∞	5691489	10.0000
Imipramine	4.291	7029319	61737.72	∞	24568787	10.0000
Ketamine	3.265	5629465	∞	280.22	25437332	10.0000
Lamotrigine	3.433	390763	136.07	255.69	16424811	10.0000
Levamisole	2.855	4005495	236.10	∞	33397295	10.0000
Lorazepam	4.439	664250	335.20	430.05	3193966	10.0000
Maprotiline	4.338	4646904	∞	∞	10711133	10.0000
MDA	2.947	3208454	∞	1182.41	14740569	10.0000
MDEA	3.160	6813580	6712.67	1228.82	30480874	10.0000
MDMA	3.023	7644300	34882.37	∞	5142508	10.0000
Meperidine	3.510	3400867	178.28	878.64	16424811	10.0000
Meprobamate	3.652	763385	224.66	148.33	3679609	10.0000
Methadone	4.318	7751753	851950.85	375.56	30526446	10.0000
Methamphetamine	2.933	6820029	∞	2010.20	25253700	10.0000
Methocarbamol	3.556	651811	326.45	∞	16424811	10.0000
Methylphenidate	3.435	13005986	∞	∞	43372308	10.0000
Metoprolol	3.369	852803	1159.74	415383.84	16424811	10.0000
Midazolam	4.362	772240	3380.91	277.43	8636391	10.0000
Mirtazapine	3.584	3791622	17818.50	∞	16424811	10.0000
Mitragynine	4.051	380704	49721.66	873844.23	19060823	10.0000
Morphine	2.188	202838	79.52	∞	90454	10.0000
Norbuprenorphine	3.744	94834	20518.22	91607.71	496251	10.0000
Nordiazepam	4.693	2096184	∞	6333.78	7151651	10.0000
Norfentanyl	3.266	8600596	26646052.65	188.60	34155729	10.0000
Norhydrocodone	2.866	32122	∞	∞	1091932	10.0000
Normeperidine	3.527	2888611	728.04	417.59	10763712	10.0000
Noroxycodone	2.818	1152775	∞	138.01	4069930	10.0000
Nortriptyline	4.341	2229968	297392.08	∞	5369549	10.0000
O-desmethyl-tramadol	2.852	11398812	350.95	∞	46013266	10.0000
Olanzapine	3.150	1548789	408.51	314.87	1039341	10.0000
Oxazepam	4.505	2953774	2132.68	315.90	19248329	10.0000
Oxycodone	2.831	2980359	201.03	288.64	14426203	10.0000
Oxymorphone	2.273	1500118	162.80	∞	5485105	10.0000
Paroxetine	4.269	512807	188.33	12.57	12866305	10.0000
Phenazepam	4.651	1883627	∞	2672.90	9178905	10.0000
Phencyclidine	3.833	7191953	1243.77	∞	29865641	10.0000
Phentermine	3.086	1984233	318.93	6.53	23851629	10.0000
Phenytoin	4.126	136773	95.96	∞	1039341	10.0000
Promethazine	4.213	13250930	398.93	∞	38257372	10.0000
Pseudoephedrine	2.658	57229559	∞	∞	166423031	10.0000
Quetiapine	4.160	3583017	502.37	5882.30	5281892	10.0000
Sertraline	4.472	2587908	997.15	580.15	12866305	10.0000
Sufentanil	4.160	405427	316.12	133.38	24639637	10.0000
Tapentadol	3.374	5901074	∞	4032.75	28253980	10.0000
Temazepam	4.673	4298985	∞	∞	20430158	10.0000
Tramadol	3.354	14169956	∞	159.83	45563497	10.0000
Trazodone	3.976	4671063	5553.82	27830.14	25203070	10.0000
Venlafaxine	3.721	10280637	4907.58	2652.46	40588915	10.0000
Zaleplon	4.350	2425980	525.01	272214.52	5292388	10.0000
Zolpidem	3.703	11757576	4738.97	25270400.20	41728952	10.0000
Zopiclone	3.638	292329	187.75	94.61	1621620	10.0000

AM# 26: THC and Metabolites Screen in Blood by LC-MS/MS

Extraction Date: 04/28/2020

Analyst: Tamara Salazar

Plate lot# IDP-108-2, 200303

Plate Expiration: 09-03-2020

Mobile phase A: 10mM Ammonium Formate
0.1% Formic Acid in Water

MTBE

Mobile phase B: 0.1% Formic acid in MeOH
Hexane

Blank Blood Lot: 445283-3

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

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 **1000 µL blood** into the appropriate wells of analytical (standards) plate.
Pipette ID: #42
- 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes. *Shaker ID: 067105*
- 4. Pipette **500 µL 0.1% formic acid in water** for blood samples in wells of analytical plate.
- 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- 6. Transfer **800 µL of blood+acid** mixture to corresponding wells of SLE+ plate.
- 7. Apply positive pressure for approx. 4 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 **2.25 mL 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 **2.25 mL 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.
Worklist path: *D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wklst 4195 TS*
Batch Name: *AM 26*
- 2. Calculated sample concentration of 3 ng/mL or greater for THC and THC-OH, a calculated sample concentration of 10 ng/mL or greater for Carboxy-THC.
- 3. Retention time within +/- 2% or +/- .100 min whichever is greater of the average retention time of the calibrators.
- 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:

TS

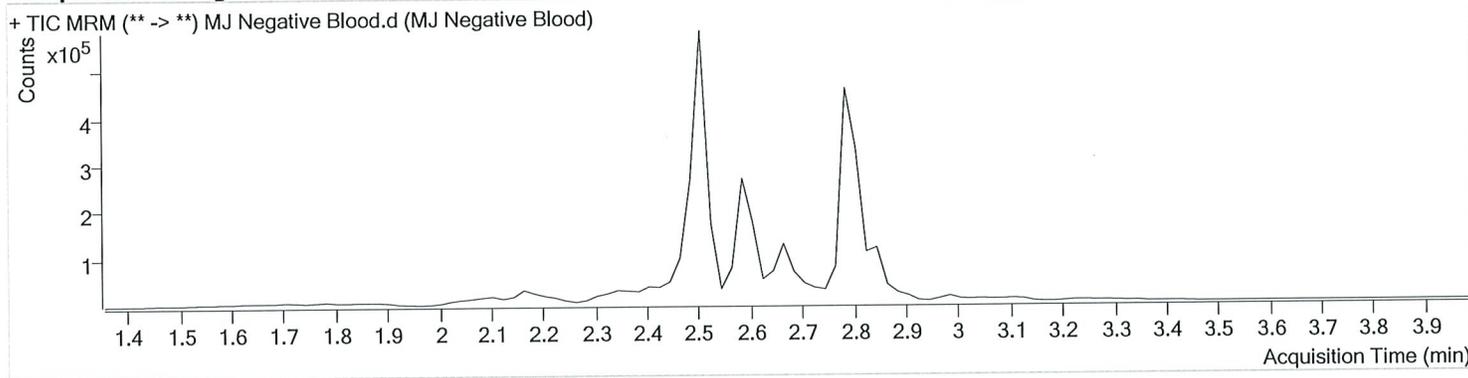


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Negative Blood.d
Type	Sample	Sample	MJ Negative Blood
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-A2	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 2:03:11 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC-OH	2.491	53895	1113051	1.2863 ng/ml Low

TS

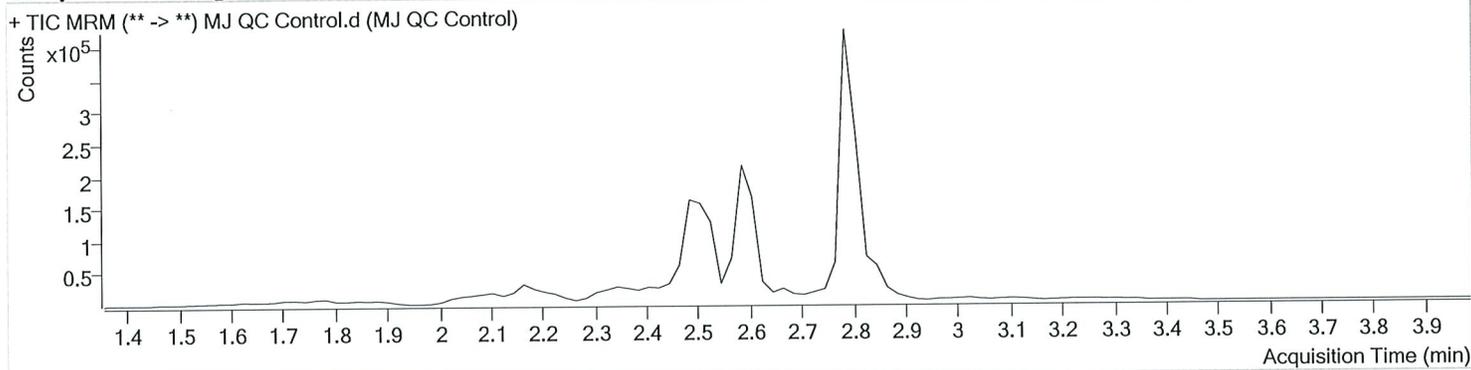


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ QC Control.d
Type	Sample	Sample	MJ QC Control
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-H1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:50:09 PM		
Sample Info.			

Sample Chromatogram



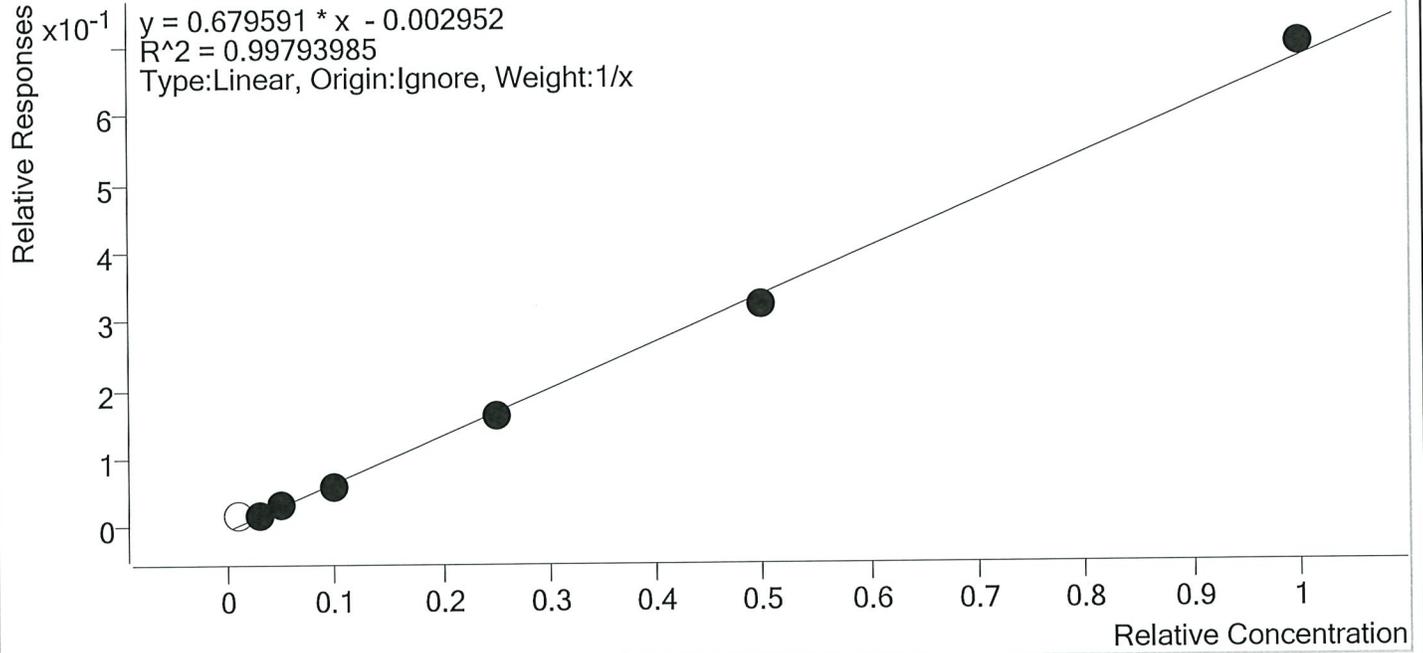
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	1507	70753	3.5686 ng/ml
THC-COOH	2.605	43059	255501	13.8883 ng/ml
THC-OH	2.512	90720	392302	7.3086 ng/ml



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/29/2020 1:13 PM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-d3

THC - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



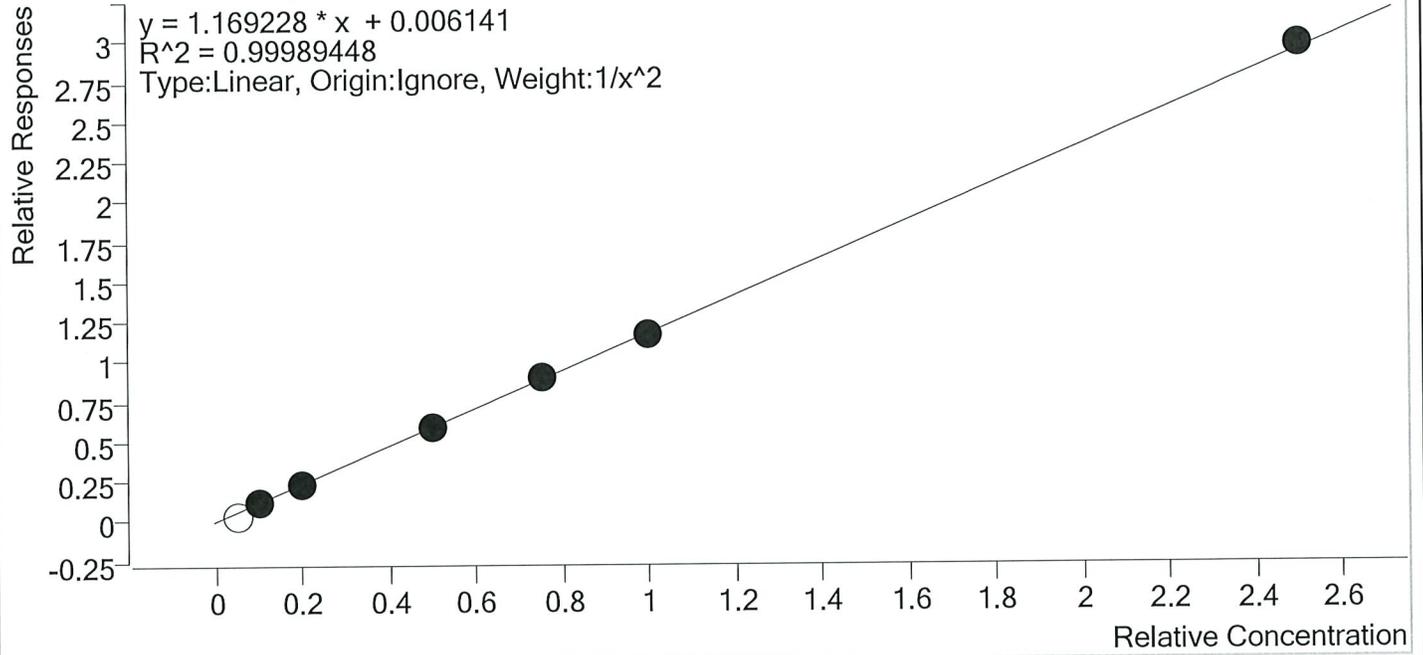
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	1.0	3.2	320.8
MJ Cal 2	2	✓	3.0	3.2	107.2
MJ Cal 3	3	✓	5.0	5.1	102.7
MJ Cal 4	4	✓	10.0	9.3	93.3
MJ Cal 5	5	✓	25.0	24.7	98.7
MJ Cal 6	6	✓	50.0	47.5	95.0
MJ Cal 7	7	✓	100.0	103.1	103.1



AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk\lst 4195 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/29/2020 1:13 PM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-d9

THC-COOH - 7 Levels, 6 Levels Used, 7 Points, 6 Points Used, 0 QCs



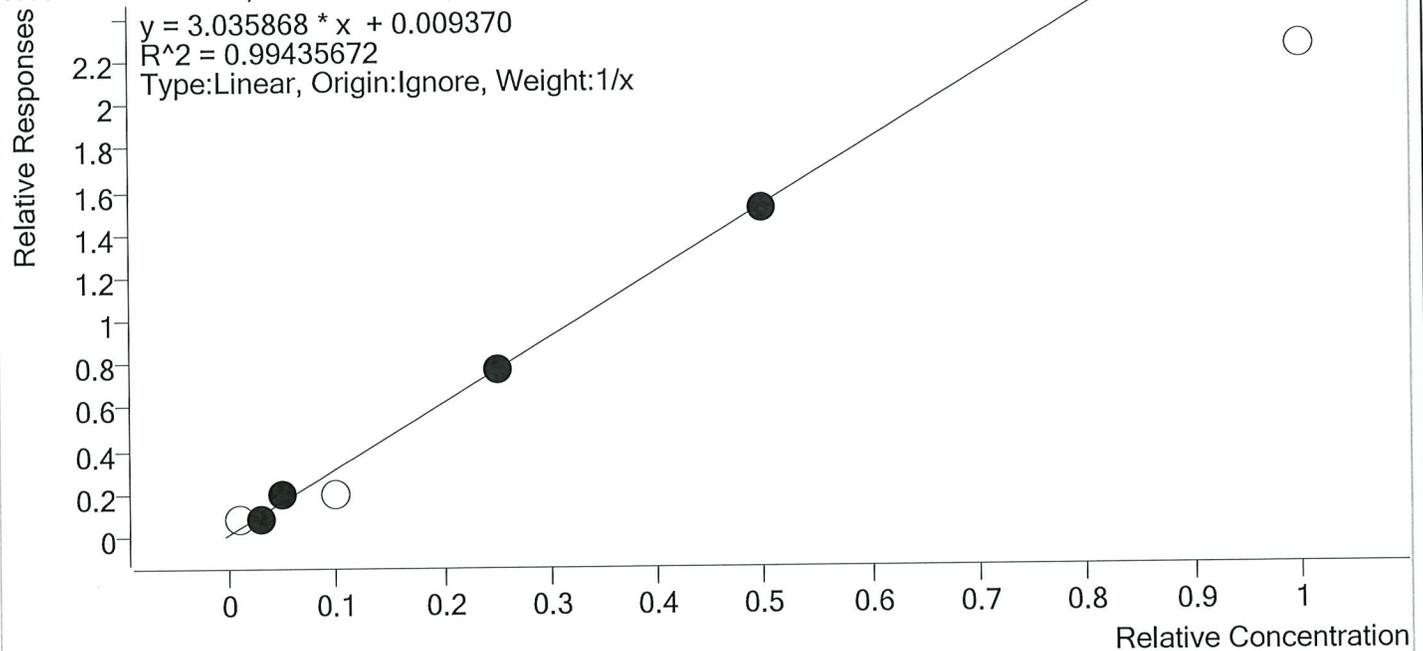
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	5.0	2.5	50.4
MJ Cal 2	2	✓	10.0	10.0	100.3
MJ Cal 3	3	✓	20.0	19.9	99.6
MJ Cal 4	4	✓	50.0	49.7	99.4
MJ Cal 5	5	✓	75.0	75.4	100.5
MJ Cal 6	6	✓	100.0	99.0	99.0
MJ Cal 7	7	✓	250.0	252.9	101.1



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Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk\lst 4195 TS\QuantResults\AM 26.batch.bin
Last Cal. Update 4/29/2020 1:13 PM
Analyst Name ISP\Datator
Analyte THC-OH **Internal Standard** THC-OH-d3

THC-OH - 7 Levels, 4 Levels Used, 7 Points, 4 Points Used, 0 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	×	1.0	2.5	254.9
MJ Cal 2	2	✓	3.0	2.4	80.6
MJ Cal 3	3	✓	5.0	6.0	119.9
MJ Cal 4	4	×	10.0	6.1	61.0
MJ Cal 5	5	✓	25.0	25.2	100.7
MJ Cal 6	6	✓	50.0	49.4	98.8
MJ Cal 7	7	×	100.0	73.7	73.7

Calibrator four dropped due to quantifier ion and ITSD peaks cutting off. TS
 04/29/2020

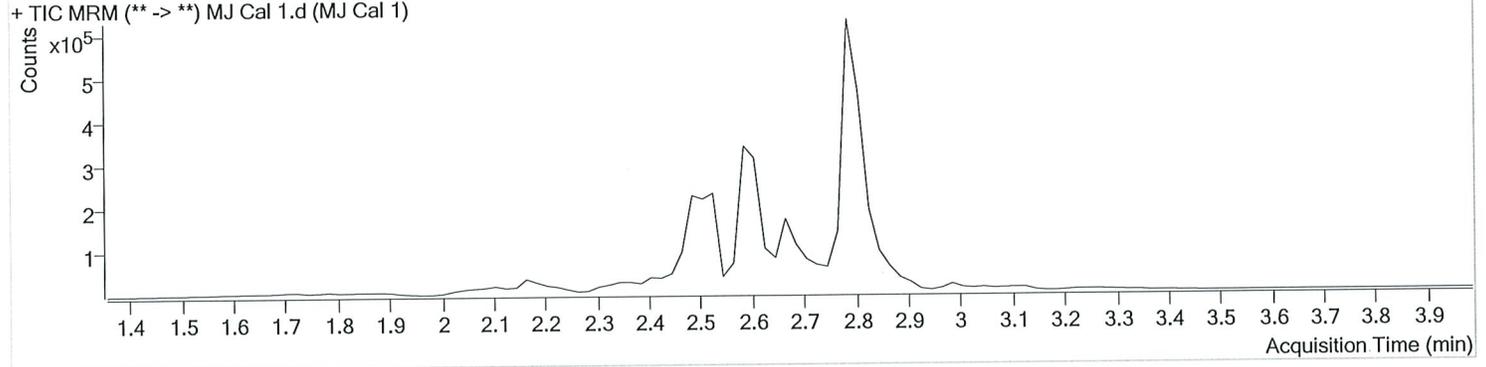


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 1.d
Type	Cal	Sample	MJ Cal 1
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-A1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:04:23 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.859	1432	75963	3.2082 ng/ml	
THC-COOH	2.625	17449	489890	2.5211 ng/ml	Low
THC-OH	2.491	58251	671344	2.5495 ng/ml	Low

TS



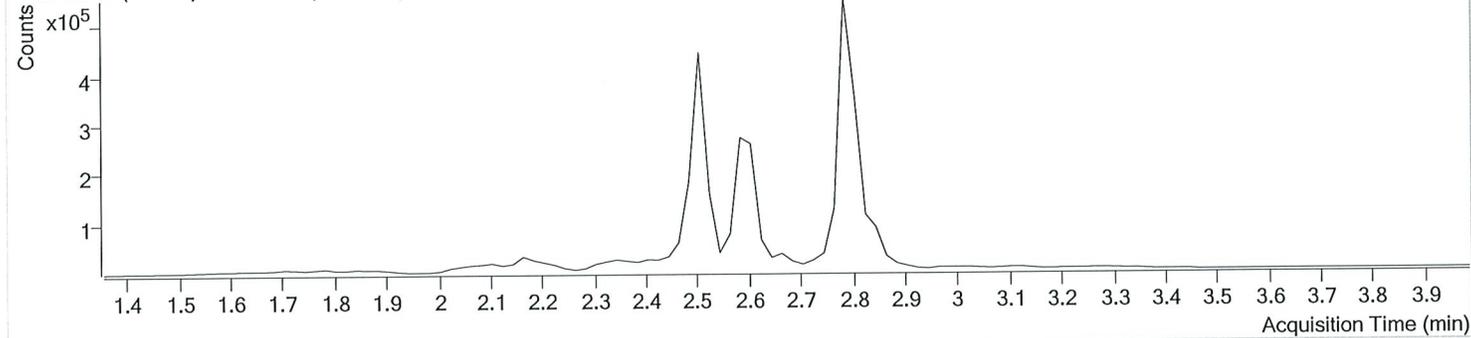
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 2.d
Type	Cal	Sample	MJ Cal 2
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-B1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:11:04 PM		
Sample Info.			

Sample Chromatogram

+ TIC MRM (** -> **) MJ Cal 2.d (MJ Cal 2)



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2106	111473	3.2147 ng/ml
THC-COOH	2.605	52718	427063	10.0324 ng/ml
THC-OH	2.512	68681	829566	2.4185 ng/ml Low

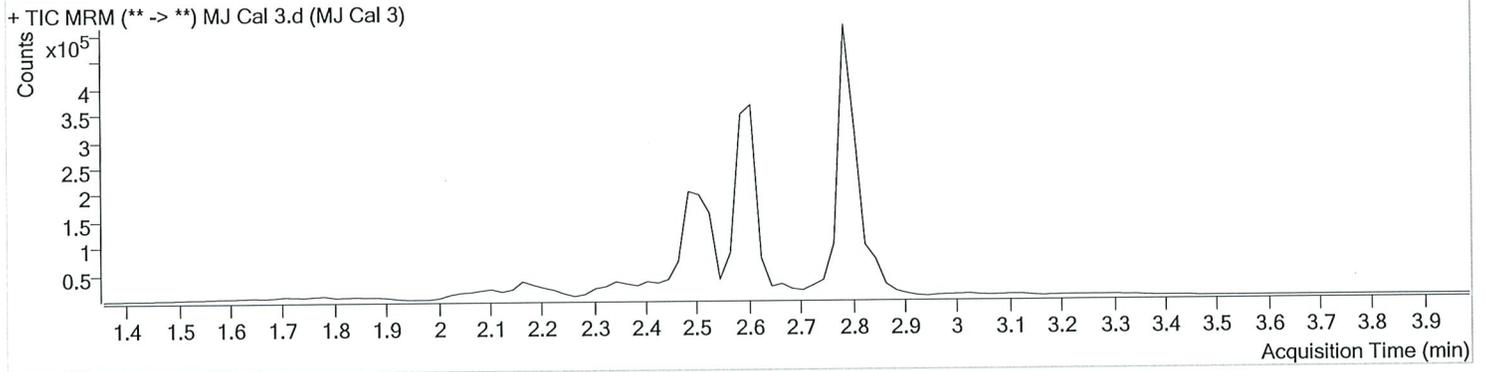


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 3.d
Type	Cal	Sample	MJ Cal 3
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-C1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:17:36 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	2902	90796	5.1372 ng/ml
THC-COOH	2.605	111064	464829	19.9101 ng/ml
THC-OH	2.512	99281	518944	5.9931 ng/ml

TS

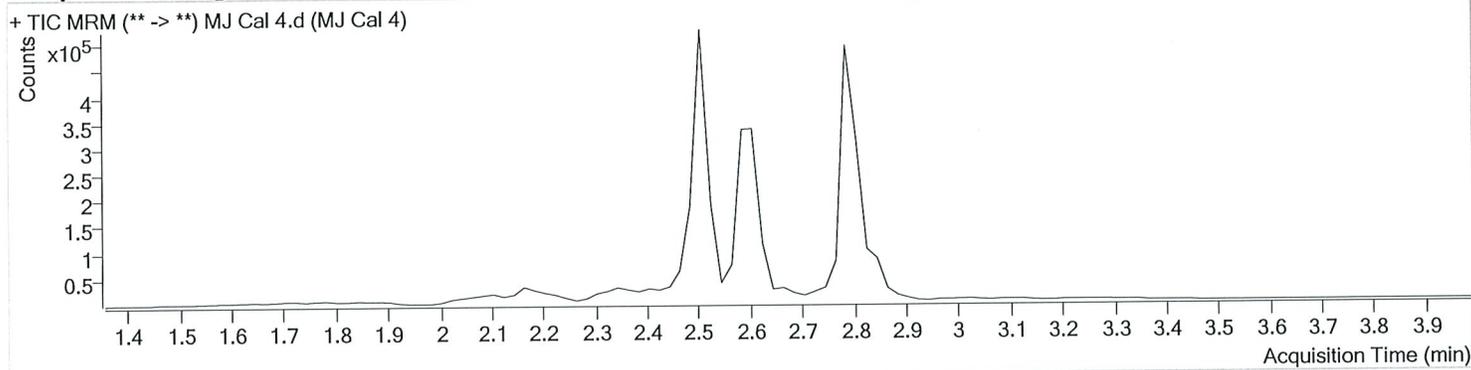


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 4.d
Type	Cal	Sample	MJ Cal 4
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-D1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:24:08 PM		

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	6209	102753	9.3254 ng/ml
THC-COOH	2.605	221751	377647	49.6951 ng/ml
THC-OH	2.512	168241	864323	6.1031 ng/ml

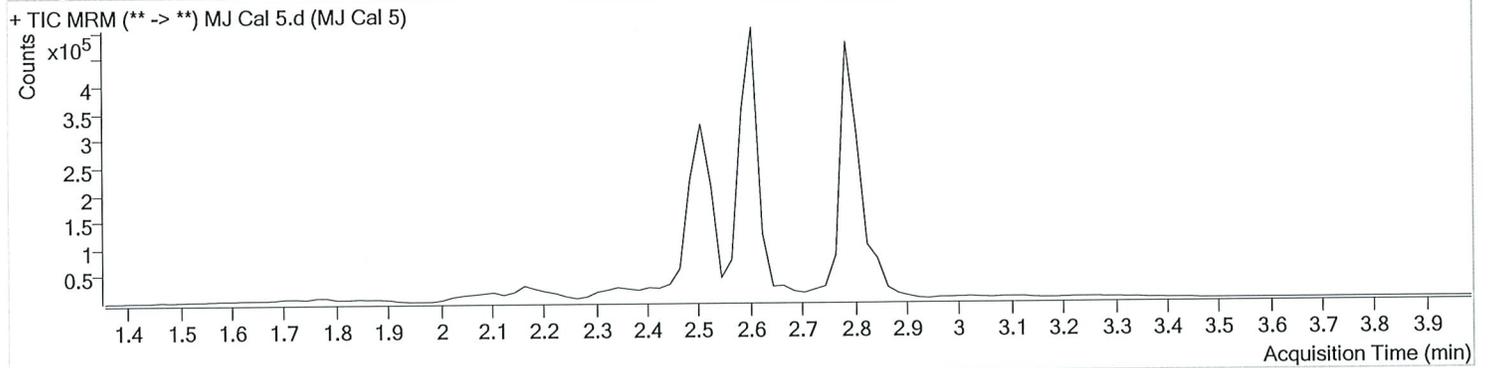


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 5.d
Type	Cal	Sample	MJ Cal 5
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-E1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:30:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	15634	94908	24.6730 ng/ml
THC-COOH	2.605	280516	315952	75.4088 ng/ml
THC-OH	2.512	375945	485982	25.1727 ng/ml

TS

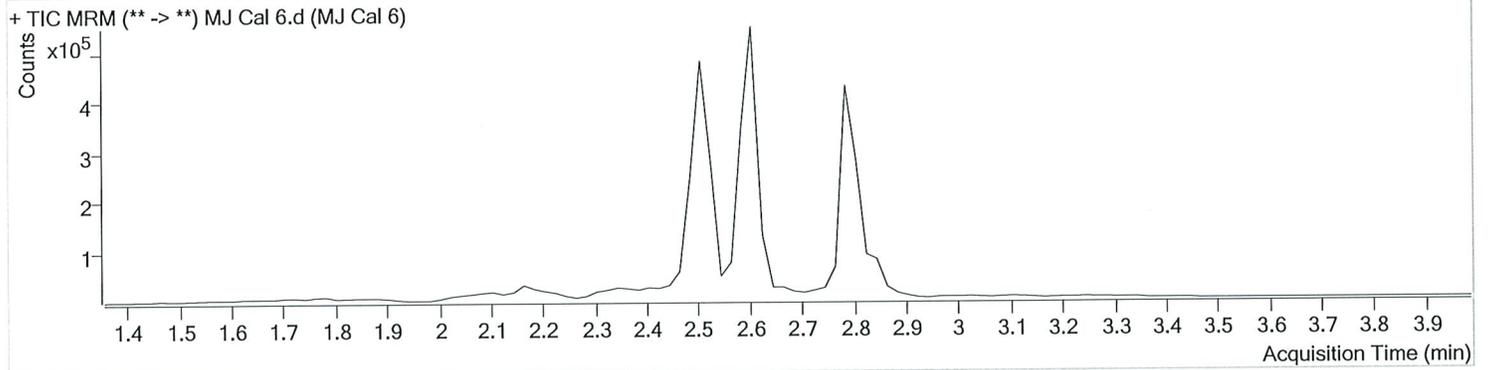


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 6.d
Type	Cal	Sample	MJ Cal 6
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-F1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:37:09 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	25061	78347	47.5022 ng/ml
THC-COOH	2.605	323034	277483	99.0410 ng/ml
THC-OH	2.512	677212	448614	49.4157 ng/ml

15

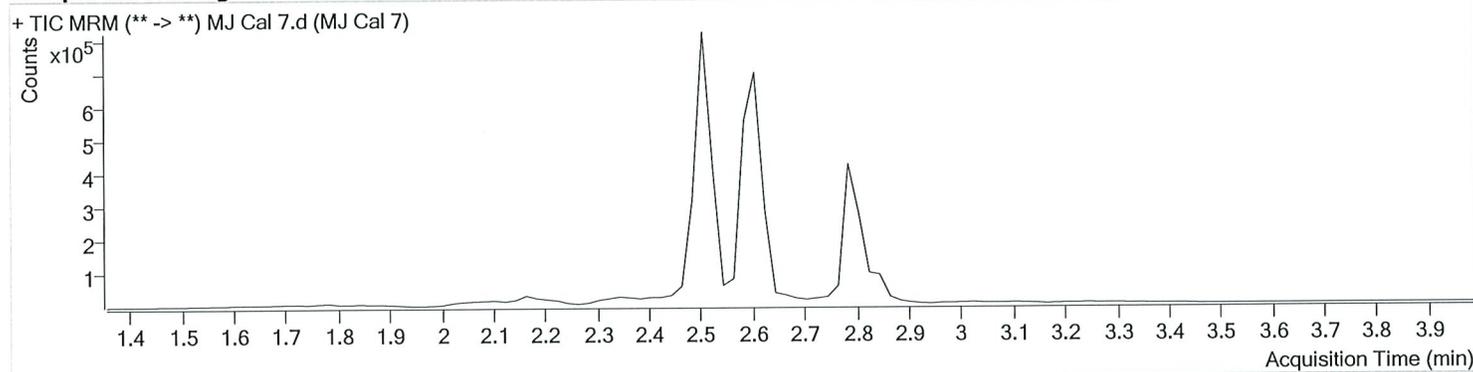


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\042820 AM 25_26 wk1st 4195 TS\QuantResults\AM 26.batch.bin
Calibration Last Update 4/29/2020 1:13:34 PM

Instrument	Falco	Data File	MJ Cal 7.d
Type	Cal	Sample	MJ Cal 7
Acq. Method	am 26 test.m	Operator	Tamara Salazar
Sample Position	P3-G1	Comment	
Injection Volume	10		
Acq. Date-Time	4/28/2020 1:43:39 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.859	54260	77733	103.1474 ng/ml
THC-COOH	2.605	792494	267480	252.8736 ng/ml
THC-OH	2.512	960656	427444	73.7210 ng/ml