REVIEWED
By Sarah Pickle at 1:31 pm, Jun 05, 2020

TS

6/5/2020

Worklist: 4281

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
M2020-1819	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1875	5	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1878	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1905	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-1966	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
M2020-2008	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1520	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1521	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1522	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1523	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1560	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1561	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1563	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1586	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1593	2	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1604	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1605	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1611	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1623	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1624	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1627	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

Worklist: 4281

LAB_CASE	ITEM	ITEM_TYPE	DESCRIPTION
P2020-1628	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1634	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ
P2020-1657	1	BCK	AM 25/AM 26 Blood MultiDrug/THC Screen by LC-QQQ

TS

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

Extraction Date: 06/04/2020
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 445283-4
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 00.5M 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.
☒ 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

Rachel Cutler
Lab Manager 5/22/20

I had approved of this deviation verbally but Celena signed it instead of me by mistake. Was noticed during audit.

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: 031820)

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	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.

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

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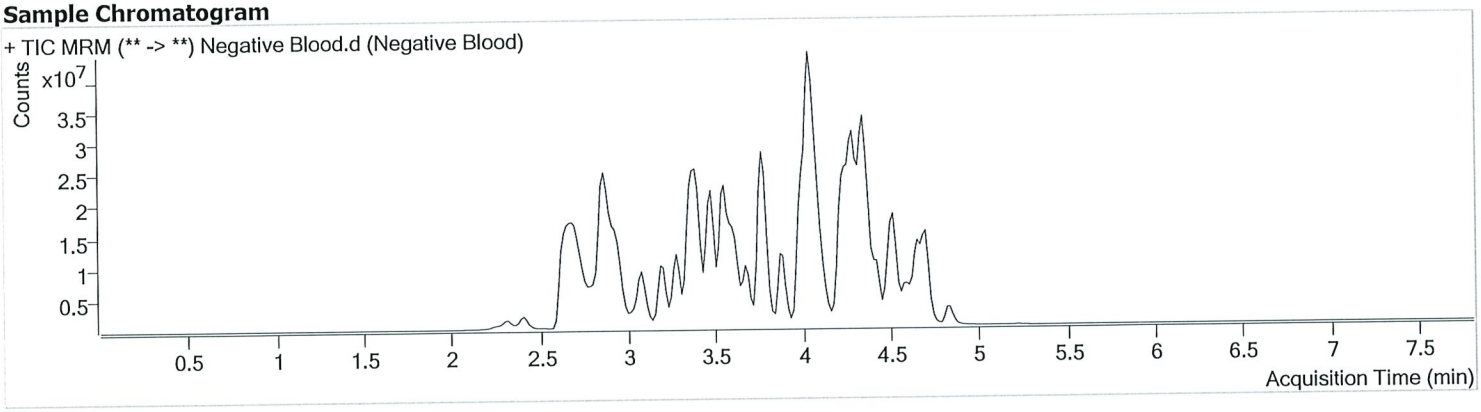
AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 25 TS.batch.bin
Calibration Last Update 6/5/2020 11:23:01 AM

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	6/4/2020 3:31:23 PM		
Sample Info.			

Sample Chromatogram



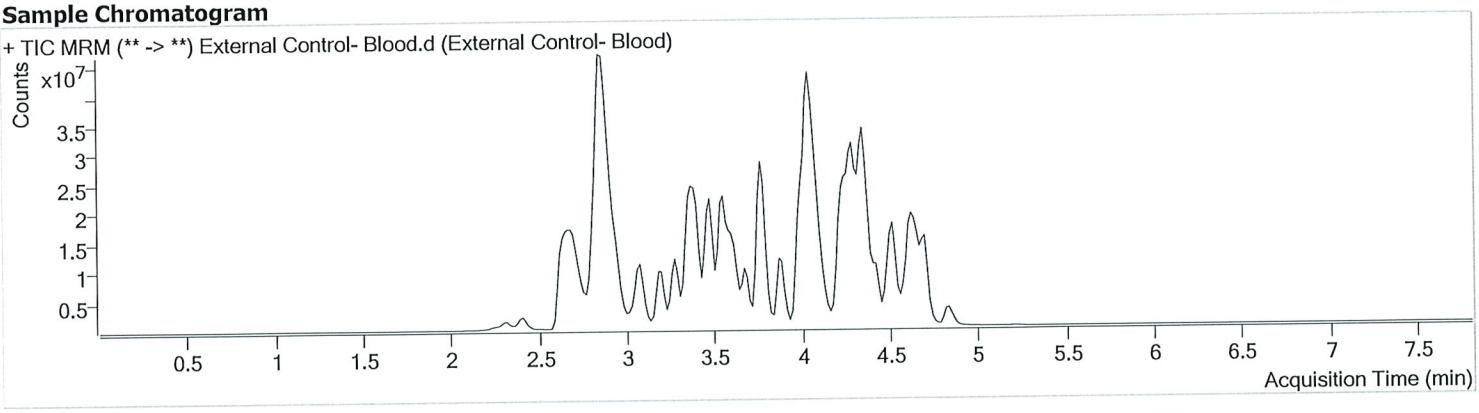
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 25 TS.batch.bin
Calibration Last Update 6/5/2020 11:23:01 AM

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	6/4/2020 3:39:42 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Alprazolam	4.625	21143743	∞	944.98	6566819	104.1142
Amphetamine	2.843	32004815	∞	3683.25	9515492	100.9625
O-desmethyl-tramadol	2.883	58243192	∞	499.75	44374230	50.2017

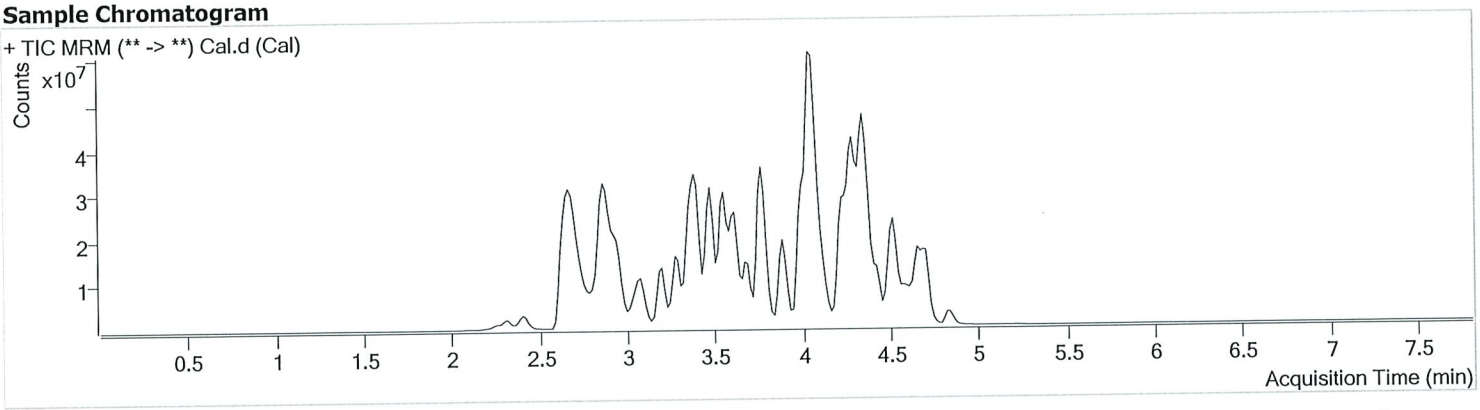
TS

AM #25 Multi-Drug Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 25 TS.batch.bin
Calibration Last Update 6/5/2020 11:23:01 AM

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	6/4/2020 3:22:55 PM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
6-MAM	2.860	67198	110.60	443.15	1766980	10.0000
7-aminoclonazepam	3.582	1882771	314.31	602653.12	8065312	10.0000
7-aminoflunitrazepam	3.797	3750049	600.98	1471.57	21592851	10.0000
Acetyl Fentanyl	3.778	553953	235.33	327667.89	34234102	10.0000
Acetyl Norfentanyl	2.869	464936	275.14	211.34	21788890	10.0000
a-hydroxyalprazolam	4.515	290976	96.24	2487.11	1713135	10.0000
alpha-hydroxymidazolam	4.591	2040366	739.50	95196.74	13091708	10.0000
alpha-PVP	3.497	7565686	15494.33	138.21	30478310	10.0000
Alprazolam	4.625	2404713	108.93	∞	7775825	10.0000
Amitriptyline	4.384	6179065	∞	692.56	14079124	10.0000
Amphetamine	2.843	3463604	296.04	471.48	10396907	10.0000
Benzoylecgonine	3.367	1139741	1164058.76	237.40	5476034	10.0000
Buprenorphine	4.250	847379	669.99	13624.40	4711902	10.0000
Bupropion	3.695	8182459	∞	621.14	24937840	10.0000
Carbamazepine	4.234	9505815	∞	740.26	39162245	10.0000
Carisoprodol	4.217	1696258	189379.91	228.54	9603983	10.0000
Chlordiazepoxide	4.704	1196713	425.45	1672.26	22900548	10.0000
Chlorpheniramine	3.907	40720	40.30	19643.30	50043408	10.0000
Citalopram	4.024	4033395	715.17	462.33	18465436	10.0000
Clonazepam	4.440	2398895	6214.23	10769.27	4070113	10.0000
Cocaine	3.534	8833650	525675.92	3537.90	35147473	10.0000
Codeine	2.758	574123	612.09	51.89	2574526	10.0000
Cyclobenzaprine	4.307	4883763	7768.27	167.29	16832460	10.0000
Desipramine	4.340	7117156	373.38	390.93	33611385	10.0000
Dextromethorphan	4.030	2016974	∞	6389.09	9909639	10.0000
Dextrorphan	3.355	3701216	6372.51	980.94	23622580	10.0000
Diazepam	4.843	1398336	∞	1424.00	7238383	10.0000
Dihydrocodeine	2.711	1398015	295.36	87.25	6383803	10.0000
Diphenhydramine	4.001	13922930	791784.29	361.68	50043408	10.0000
Doxepin	4.107	3360424	2148.36	6.21	20365602	10.0000
Doxylamine	3.615	16052538	16749.49	∞	47152824	10.0000
EDDP	4.061	6220633	376.21	280082.14	37182682	10.0000
Estazolam	4.535	7143742	∞	1383.73	20026622	10.0000
Etizolam	4.651	399834	687.04	16724.17	20026622	10.0000

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AM #25 Multi-Drug Screen Results

Name	RT	Resp.	S/N	S/N	ISTD Resp.	Calc. Conc.
Fentanyl	4.007	477163	83.65	216354.73	27694704	10.0000
Flunitrazepam	4.563	3639690	2486.01	130233.93	785785	10.0000
Fluoxetine	4.287	3968401	315.63	90.90	16065143	10.0000
Flurazepam	4.113	4197002	465191.32	416.61	785785	10.0000
Hydrocodone	2.940	1924452	122.22	45.47	12807563	10.0000
Hydromorphone	2.427	1863093	∞	∞	7215764	10.0000
Imipramine	4.352	8194284	∞	∞	28147964	10.0000
Ketamine	3.372	5170040	185.55	260.72	24921268	10.0000
Lamotrigine	3.509	506589	204.69	1334.42	18958609	10.0000
Levamisole	2.916	4951621	∞	∞	35147473	10.0000
Lorazepam	4.424	881074	420327.40	328.61	4070113	10.0000
Maprotiline	4.384	6056676	∞	∞	14079124	10.0000
MDA	2.962	3518561	156.74	61.98	15315314	10.0000
MDEA	3.206	7191294	441.85	352.80	31791814	10.0000
MDMA	3.054	8082409	∞	∞	5385579	10.0000
Meperidine	3.555	3798083	218.85	323.55	18958609	10.0000
Meprobamate	3.652	1008043	748.72	98.01	4660799	10.0000
Methadone	4.364	10094059	2235411.44	364370.16	34063492	10.0000
Methamphetamine	2.949	4905035	64.45	∞	24925275	10.0000
Methocarbamol	3.572	654839	366.54	125.66	18958609	10.0000
Methylphenidate	3.481	14200120	∞	∞	46015350	10.0000
Metoprolol	3.416	942446	822.86	550.90	18958609	10.0000
Midazolam	4.715	1081798	255.12	181.32	12418585	10.0000
Mirtazapine	3.754	4315462	∞	31395.97	18958609	10.0000
Mitragynine	4.128	606776	250467.30	1754553.25	20365602	10.0000
Morphine	2.262	321623	7094.85	2082.01	188477	10.0000
Norbuprenorphine	3.806	126956	97067.71	79070.14	566657	10.0000
Nordiazepam	4.693	1913871	∞	68.48	6987768	10.0000
Norfentanyl	3.297	10646332	419.71	1212.78	37051160	10.0000
Norhydrocodone	2.897	48537	374.24	40.45	1629659	10.0000
Normeperidine	3.558	2880870	278.61	13.51	11423636	10.0000
Noroxycodone	2.864	1407213	∞	131.99	4567503	10.0000
Nortriptyline	4.386	3019875	486663.50	229.16	7638383	10.0000
O-desmethyl-tramadol	2.883	12112045	∞	81.30	46325614	10.0000
Olanzapine	3.672	2389571	2104899.67	323.18	877653	10.0000
Oxazepam	4.505	3573918	949.78	228.66	23542283	10.0000
Oxycodone	2.876	3751677	3563.37	490.60	16585437	10.0000
Oxymorphone	2.318	1680067	175.41	∞	6400542	10.0000
Paroxetine	4.315	580920	358.78	∞	16423164	10.0000
Phenazepam	4.636	1992392	2674.02	656.27	9261723	10.0000
Phencyclidine	3.894	8013597	496.99	363.78	31363951	10.0000
Phentermine	3.101	2015631	142.38	22.25	23627576	10.0000
Phenytoin	4.125	170038	6359.74	∞	877653	10.0000
Promethazine	4.274	12148607	7313.14	255.91	38302060	10.0000
Pseudoephedrine	2.673	58585768	∞	397.38	140268452	10.0000
Quetiapine	4.298	3532945	13641.02	223.95	4583863	10.0000
Sertraline	4.518	3231297	802702.61	690.16	16423164	10.0000
Sufentanil	4.282	371555	272.09	595.34	23829795	10.0000
Tapentadol	3.405	6209788	1214.15	∞	29200772	10.0000
Temazepam	4.657	5413945	∞	255.22	23394361	10.0000
Tramadol	3.401	14706318	1565.44	96.13	44494927	10.0000
Trazodone	4.283	5857365	∞	12738.71	31288560	10.0000
Venlafaxine	3.767	9414914	9800.14	1455.59	40293839	10.0000
Zaleplon	4.365	2564949	9078.25	222.54	6209152	10.0000
Zolpidem	4.073	6114479	∞	∞	32109766	10.0000
Zopiclone	3.883	755684	442549.08	159.90	4289679	10.0000

Cal

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

Extraction Date: 06/04/2020

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

Mobile phase B: 0.1% Formic acid in MeOH
MTBE
Hexane

Blank Blood Lot: 445283-4

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.
☒ 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: *Curves limited: THC 3-100, THC-OH 3-100 (cal 3 dropped due to ITSD peak cut off)*

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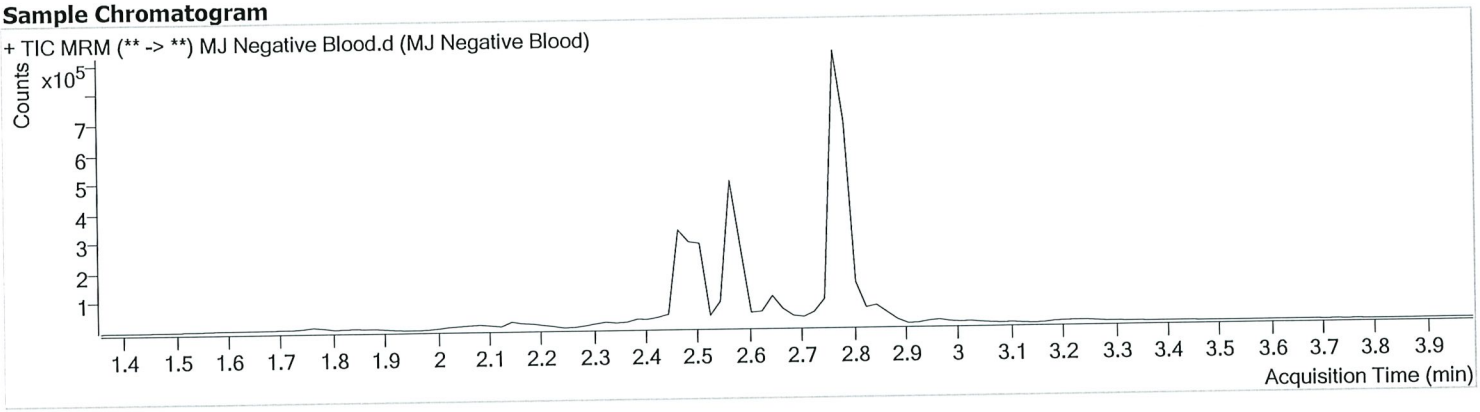
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:43:02 AM		
Sample Info.			

Sample Chromatogram

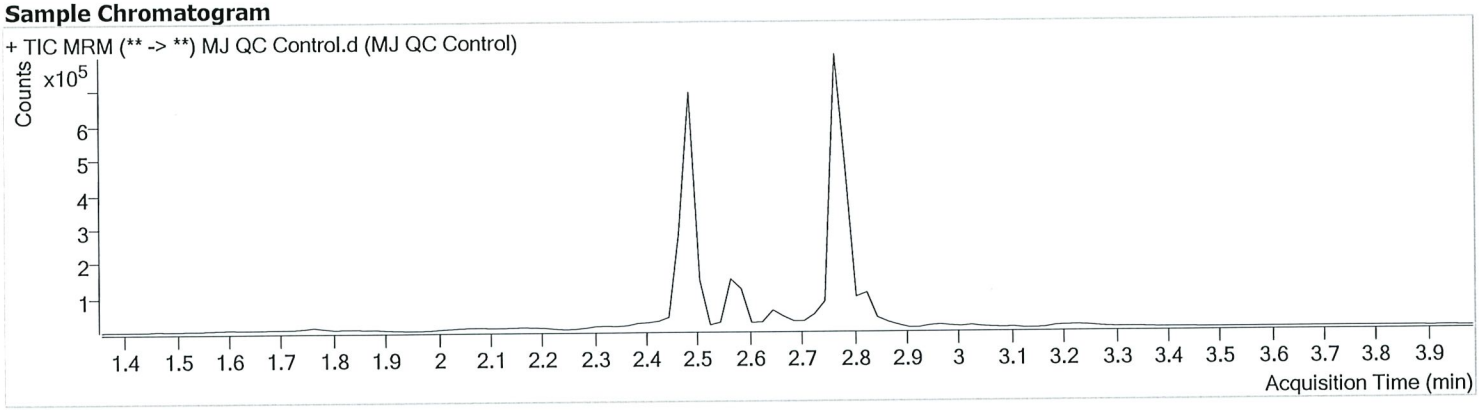


AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:30:00 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	4705	145430	4.9497	ng/ml
THC-COOH	2.585	44599	194743	18.7784	ng/ml
THC-OH	2.491	10209	1230158	3.2146	ng/ml

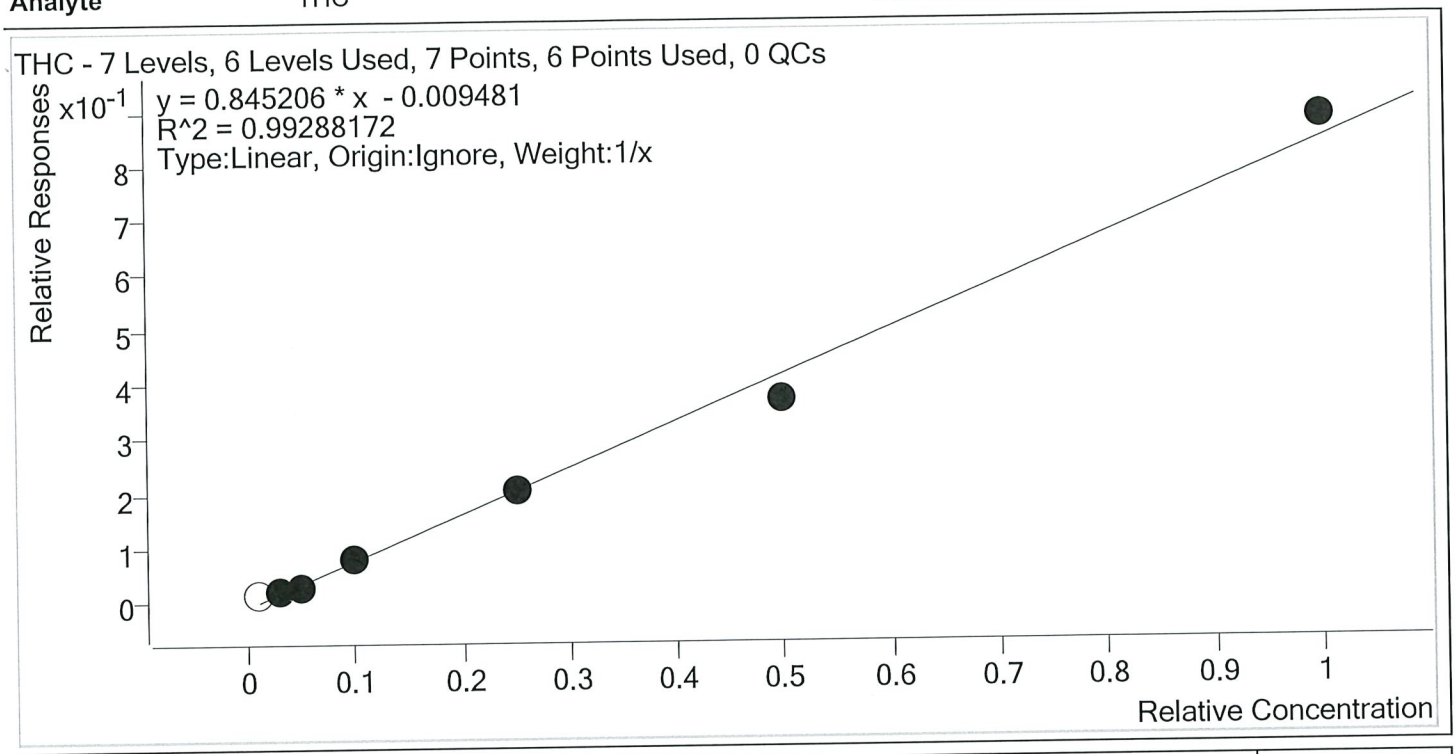
AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin

Last Cal. Update 6/5/2020 1:12 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	2.9	286.1
MJ Cal 2	2	✓	3.0	3.3	110.2
MJ Cal 3	3	✓	5.0	4.3	87.0
MJ Cal 4	4	✓	10.0	10.8	108.4
MJ Cal 5	5	✓	25.0	25.1	100.5
MJ Cal 6	6	✓	50.0	44.5	89.1
MJ Cal 7	7	✓	100.0	104.8	104.8

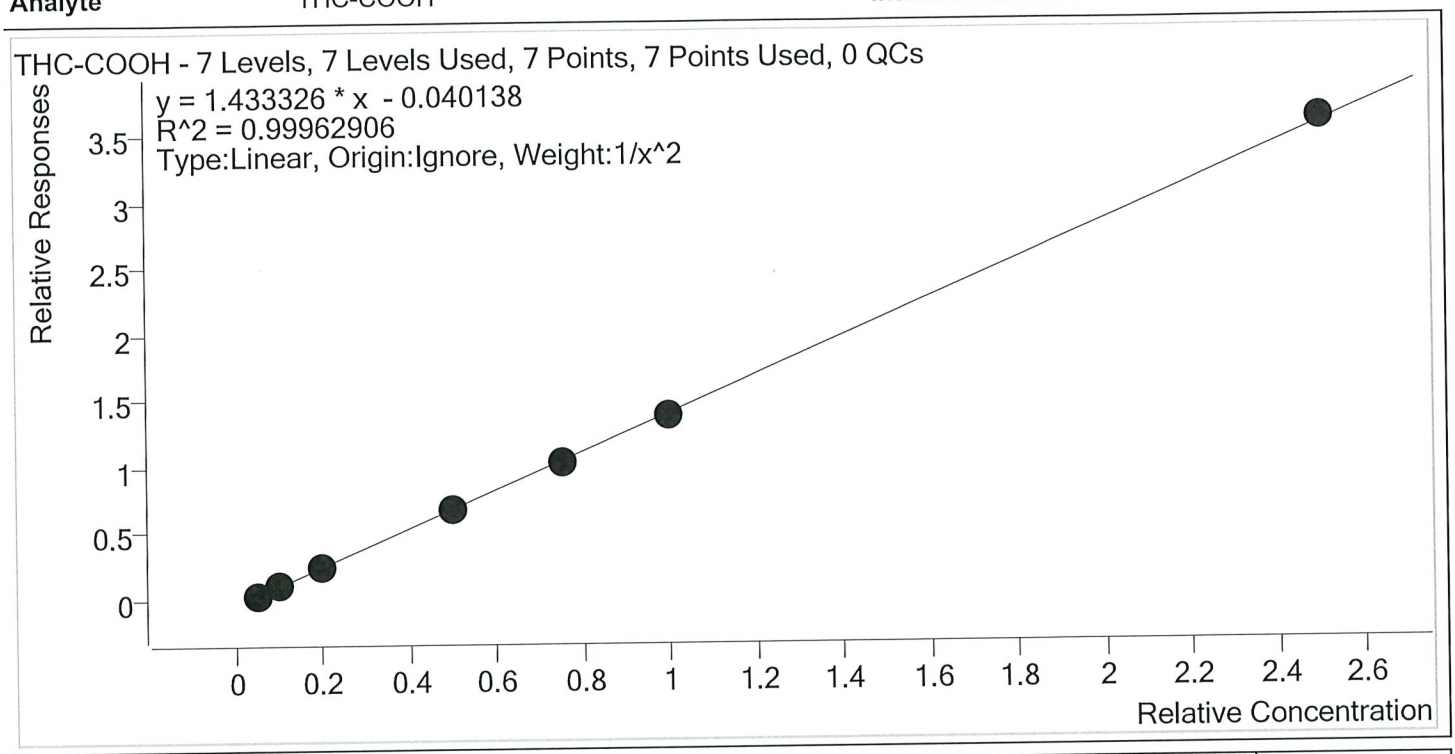
AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin

Last Cal. Update 6/5/2020 1:12 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	5.0	100.0
MJ Cal 2	2	✓	10.0	9.9	98.8
MJ Cal 3	3	✓	20.0	20.6	103.1
MJ Cal 4	4	✓	50.0	49.5	99.0
MJ Cal 5	5	✓	75.0	74.1	98.8
MJ Cal 6	6	✓	100.0	99.2	99.2
MJ Cal 7	7	✓	250.0	252.6	101.0

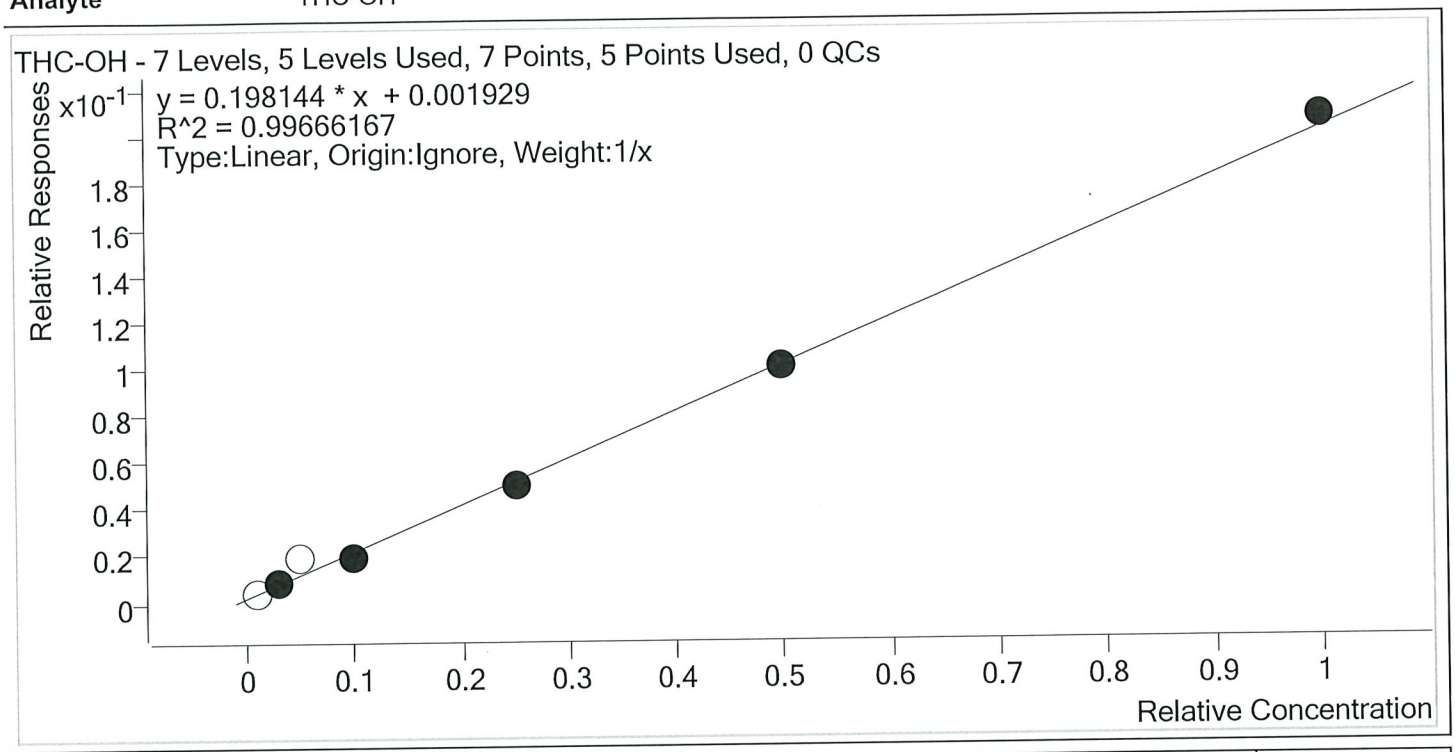
AM #26 Cannabinoids Screen Calibration Curve Report

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin

Last Cal. Update 6/5/2020 1:12 PM

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	1.1	113.4
MJ Cal 2	2	✓	3.0	3.5	118.3
MJ Cal 3	3	×	5.0	8.4	167.7
MJ Cal 4	4	✓	10.0	8.5	85.0
MJ Cal 5	5	✓	25.0	23.8	95.0
MJ Cal 6	6	✓	50.0	49.5	99.0
MJ Cal 7	7	✓	100.0	102.7	102.7

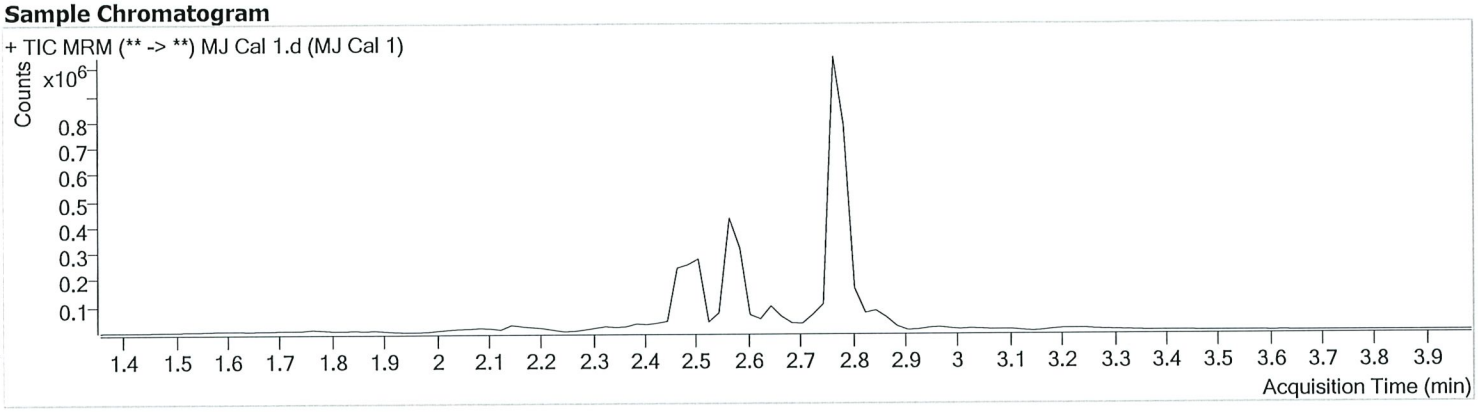
B

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 10:44:10 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.		
THC	2.839	2014	136982	2.8614	ng/ml	**Low**
THC-COOH	2.565	24174	766416	5.0009	ng/ml	
THC-OH	2.491	3020	723191	1.1340	ng/ml	**Low**

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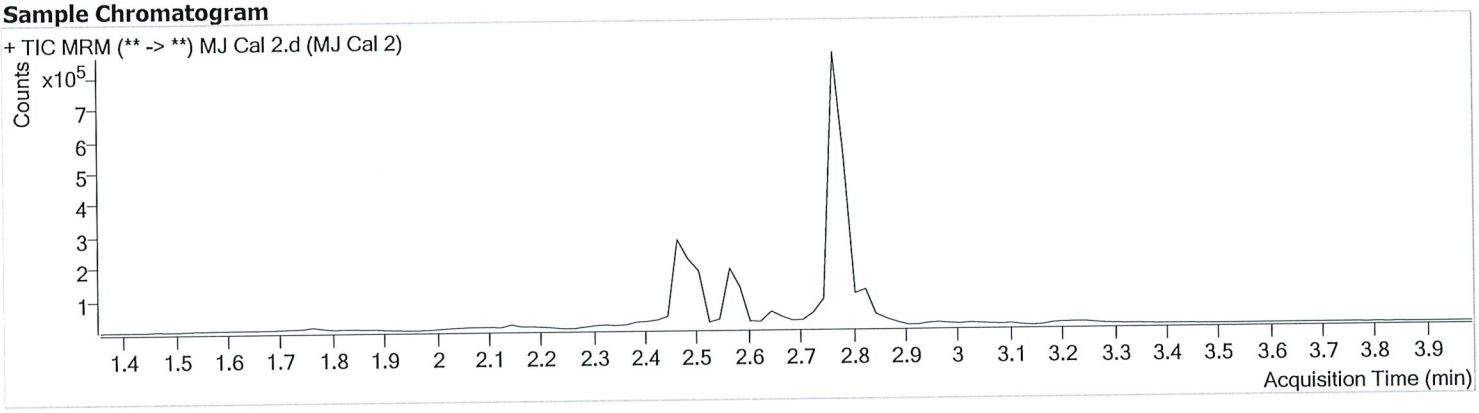
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 10:50:50 AM		
Sample Info.			

Sample Chromatogram



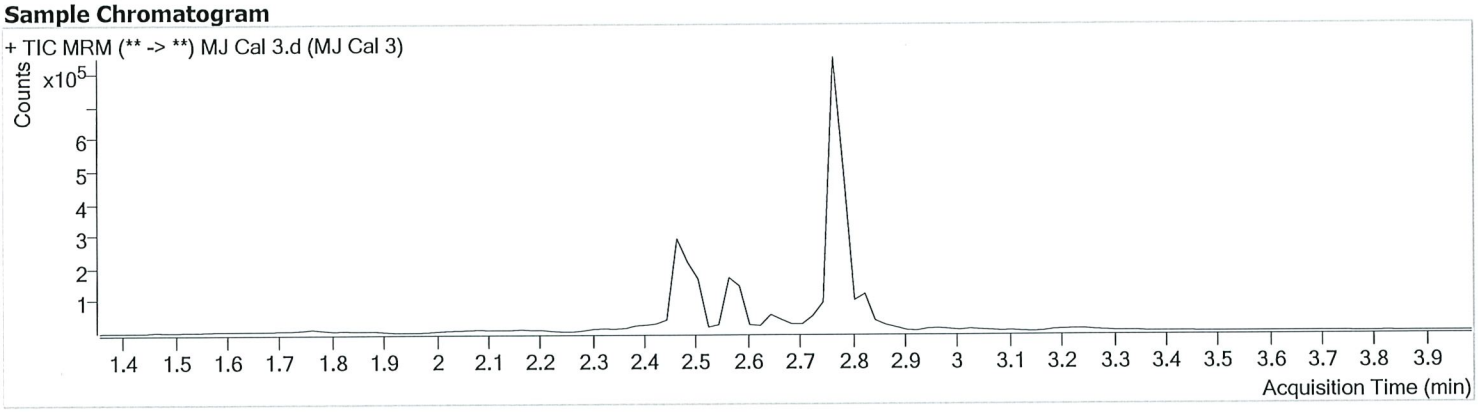
Name	RT	Resp.	ISTD Resp.	Final Conc.
THC	2.839	2473	133962	3.3060 ng/ml
THC-COOH	2.585	27679	272707	9.8816 ng/ml
THC-OH	2.491	6360	709881	3.5479 ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 10:57:22 AM		
Sample Info.			

Sample Chromatogram



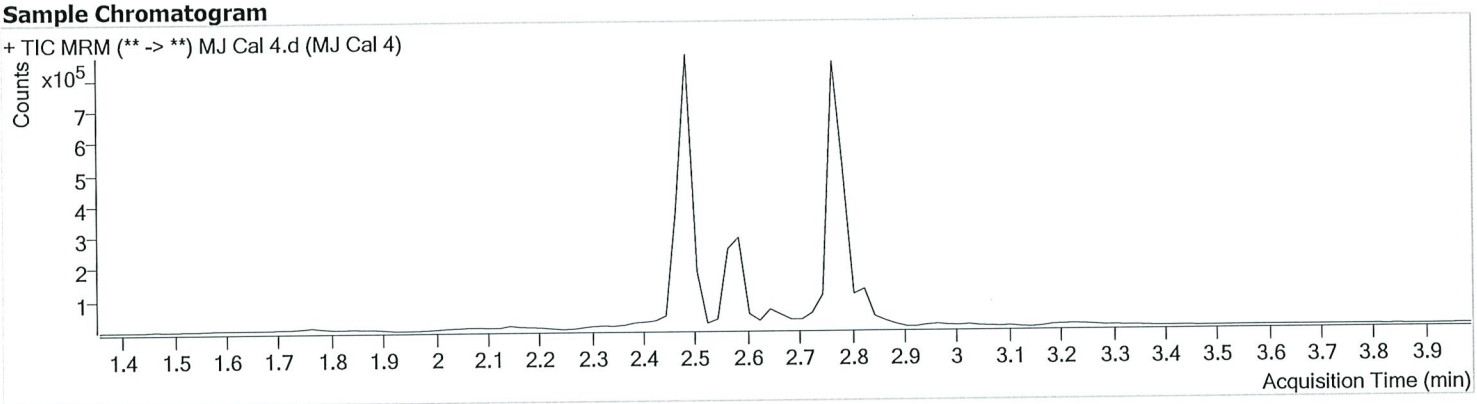
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	4298	157577	4.3490	ng/ml
THC-COOH	2.585	54949	215183	20.6162	ng/ml
THC-OH	2.491	12584	678641	8.3848	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:03:54 AM		
Sample Info.			

Sample Chromatogram



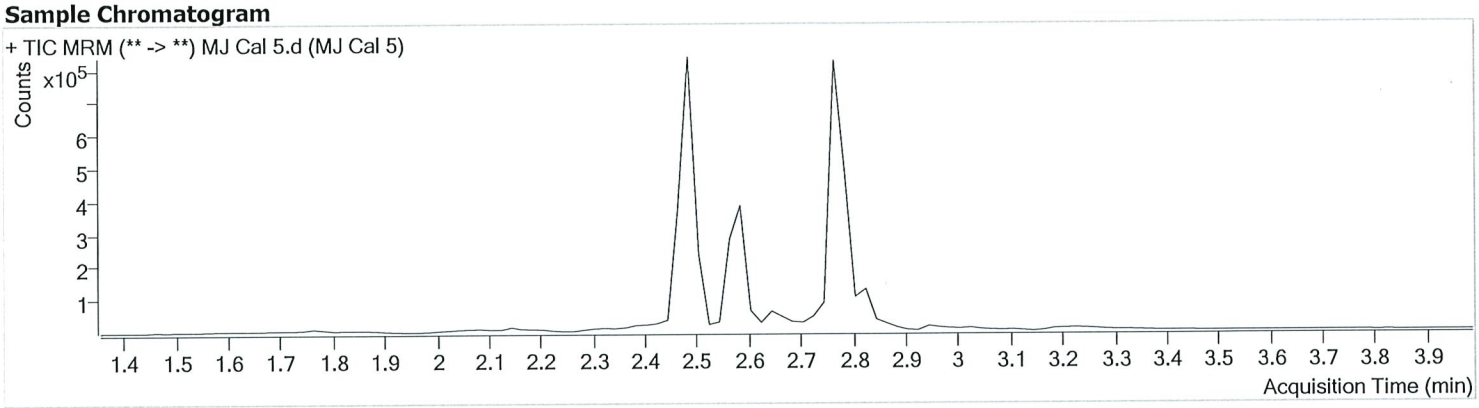
Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	11463	139599	10.8371	ng/ml
THC-COOH	2.585	161605	241428	49.5008	ng/ml
THC-OH	2.491	26662	1420414	8.4994	ng/ml

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:10:27 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	26399	130077	25.1332	ng/ml
THC-COOH	2.585	232707	227656	74.1160	ng/ml
THC-OH	2.491	65915	1345057	23.7586	ng/ml

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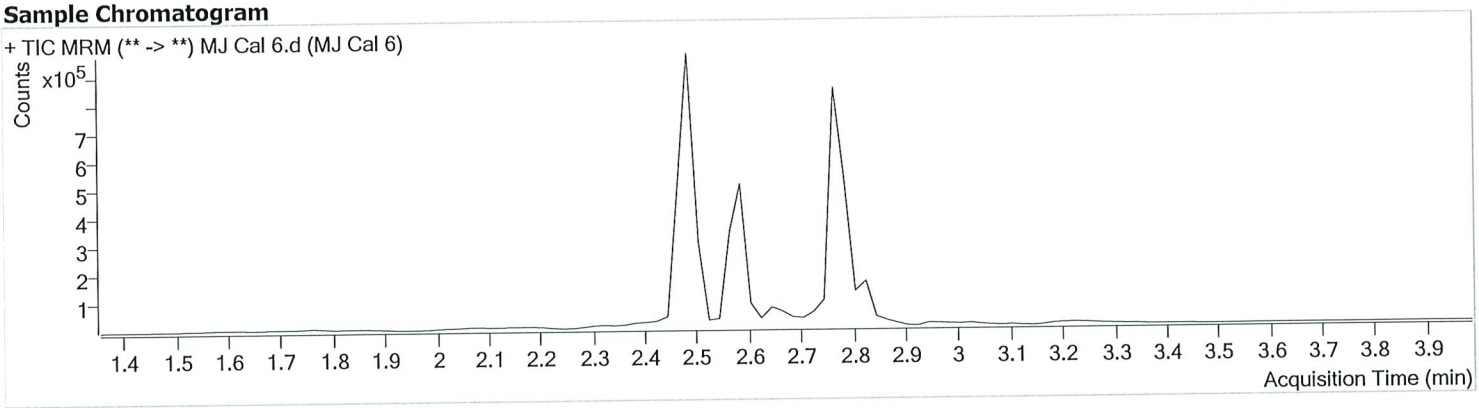
AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:16:59 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	52336	142616	44.5401	ng/ml
THC-COOH	2.585	321252	232445	99.2233	ng/ml
THC-OH	2.491	138187	1381310	49.5152	ng/ml

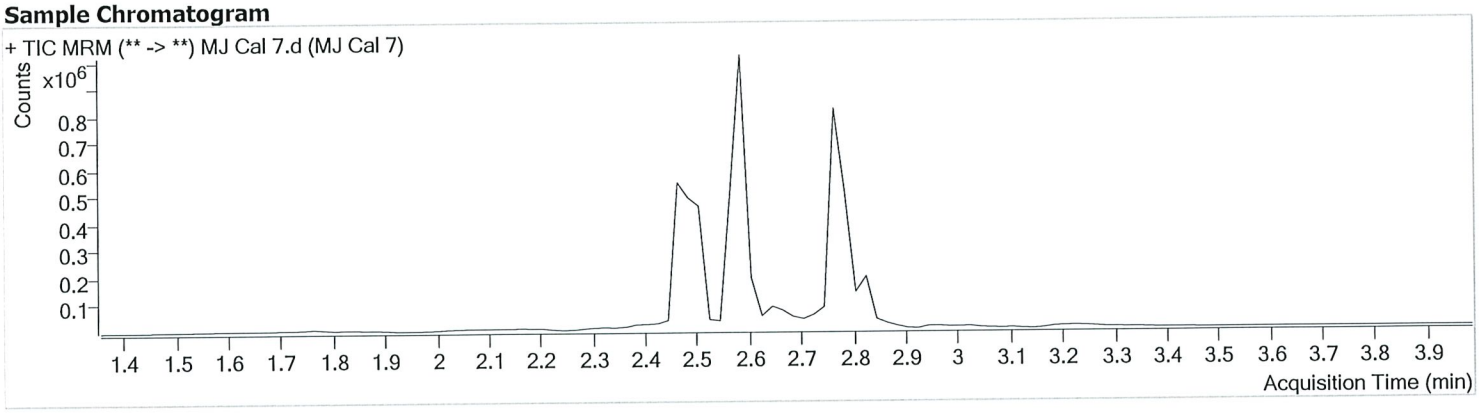
TS

AM #26 Cannabinoids Screen Results

Batch results D:\MassHunter\Data\2020\AM 25-26\060420 AM 25_26 wklst 4281 TS\QuantResults\AM 26 TS.batch.bin
Calibration Last Update 6/5/2020 1:12:10 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	6/4/2020 11:23:29 AM		
Sample Info.			

Sample Chromatogram



Name	RT	Resp.	ISTD Resp.	Final Conc.	
THC	2.839	118061	134683	104.8346	ng/ml
THC-COOH	2.585	701733	195994	252.5954	ng/ml
THC-OH	2.471	131948	642452	102.6790	ng/ml