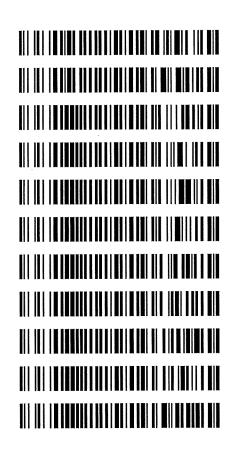
#### **REVIEWED**

By Tamara Salazar at 8:29 am, Aug 11, 2020



Worklist: 4420

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2020-2568	1	вск	AM 27 Blood THC Quant by LC-QQQ
M2020-2806	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2066	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2073	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2020-2074	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2075	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2091	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2093	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2103	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2108	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2020-2150	1	вск	AM 27 Blood THC Quant by LC-QQQ



### AM# 27: Quantitation of THC and Metabolites in Blood by LC-MS/MS

Extraction Date: 08/06/20

Analyst: Sarah Pickle

Plate lot#: IDP-108-2-200303

Plate Expiration: 09/03/20

Mobile phase A: 0.1% Formic Acid in LCMS Water

Mobile phase B: 0.1% Formic acid in Acetonitrile

MTRE

LCMS Methanol

Hexane

Blank Blood Lot: Hemostat 445283-4

Column: UCT Selectra DA 100 x 2.1mm 3um

LCMS-QQQ ID: 069901

### **Pre-Analytic:**

☑ 2. Ensure correct column is installed and begin mobile phase flow allow to equilibrate ~ 30 minutes.

#### Analytic:

- × 2. Pipette 1000 μL blood (calibrated pipette) in wells of analytical (standards) plate. Pipette ID: #27
- ☑ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Δ. Pipette 500 μL 0.1% formic acid in LCMS water in wells of analytical plate.

- ✓ 7. Apply positive pressure for approx. 10-15 seconds (or until no liquid remains on top of sorbent).
   (Load at 85-95 PSI- Selector to the right) Manifold ID: 067104
- 8. Wait 5 minutes.
- × 9. Add 2.25 mL MTBE. (Add in 3 increments of 750 μL)
- $\boxtimes$  10. Wait 5 minutes.
- ⊠ 11. Apply positive pressure for approx. 15 seconds. (12-15 PSI- Selector to the left).
- 🖂 12. Add 2.25 mL Hexane. (Add in 3 increments of 750 μL)
- ⊠ 13. Wait 5 minutes.
- ⊠ 14. Apply positive pressure for approx. 15 seconds. (12-15 PSI- Selector to the left).
- 🗵 16. Reconstitute in 100 μL 100% MeOH and heat seal plate with foil. Place in autosampler and run worklist.

### Post-Analytic

- □ 1. Create batch and process data.
- $\boxtimes$  2. Make any necessary integration changes, Curve weighting of Linear 1/x with  $r^2$  values  $\ge$  0.98 for each analyte

- ∑ 5. Did all QCs pass for each analyte? Y / N
- ⊠ 7 Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Hands of the analyst Sophie Jackson. Curves limited: THC-OH 3-100

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Falco

Sample Type Acq. Method

AM 27 THC quant.m

Sample Position **Injection Volume**  P3-H5

10

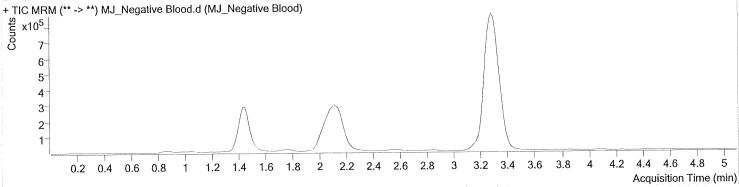
8/6/2020 2:00:45 PM

Acq. Date-Time Sample Info.

Data File Sample Operator Comment

MJ\_Negative Blood.d MJ\_Negative Blood

Sarah Pickle



Data File

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument Type

Falco

Acq. Method **Sample Position** 

P3-A6

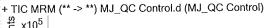
**Injection Volume** Acq. Date-Time Sample Info.

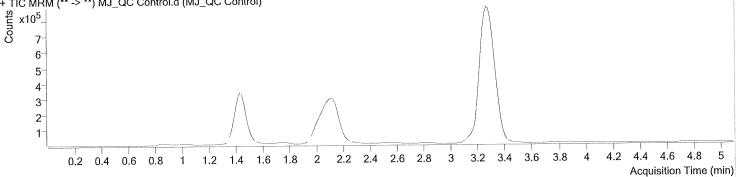
Sample

8/6/2020 1:45:32 PM

Sample Operator AM 27 THC quant.m Comment MJ\_QC Control.d MJ\_QC Control

Sarah Pickle





Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	182827	∞	8.8	∞	1256957	5.0729	ng/ml
THC-COOH	1.459	150709	∞	55.6	∞	422993	15.5388	ng/ml
THC	3.285	272383	∞	28.0	1265.00	6854563	4.3161	ng/ml

57

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

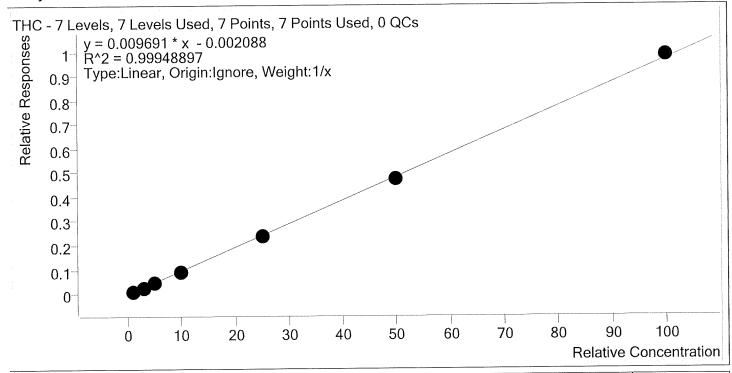
Last Cal. Update Analyst Name 8/7/2020 9:36 AM ISP\datastor

Analyte

THC

Internal Standard

THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	<b>✓</b>	1.0	1.1	112.7
MJ Cal 2	2	<b>1</b>	3.0	2.9	96.4
MJ Cal 3	3	<b>/</b>	5.0	4.8	95.4
MJ Cal 4	4	<b>V</b>	10.0	9.7	97.2
MJ Cal 5	5	<b>✓</b>	25.0	24.4	97.7
MJ Cal 6	6	<b>/</b>	50.0	49.4	98.9
MJ Cal 7	7	<b>1</b>	100.0	101.6	101.6

/

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Last Cal. Update

8/7/2020 9:36 AM

**Analyst Name** 

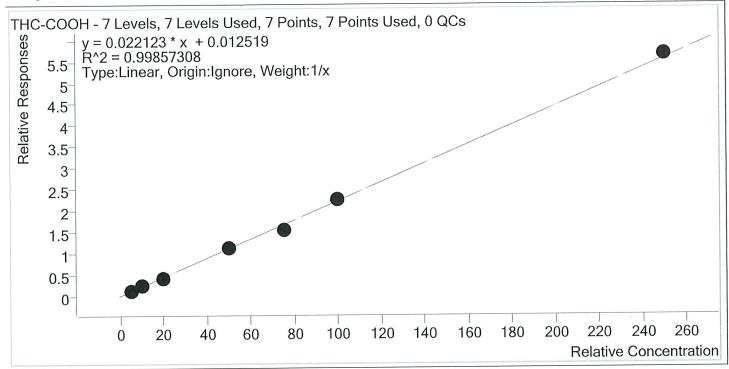
Analyte

ISP\datastor

THC-COOH

Internal Standard

THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	✓	5.0	5.5	109.0
MJ Cal 2	2	✓	10.0	10.2	102.5
MJ Cal 3	3	✓	20.0	18.4	92.1
MJ Cal 4	4	✓	50.0	49.8	99.5
MJ Cal 5	5	✓	75.0	70.4	93.8
MJ Cal 6	6	✓	100.0	101.2	101.2
MJ Cal 7	7	<b>√</b>	250.0	254.5	101.8



Batch results D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Last Cal. Update

8/7/2020 9:36 AM

**Analyst Name** 

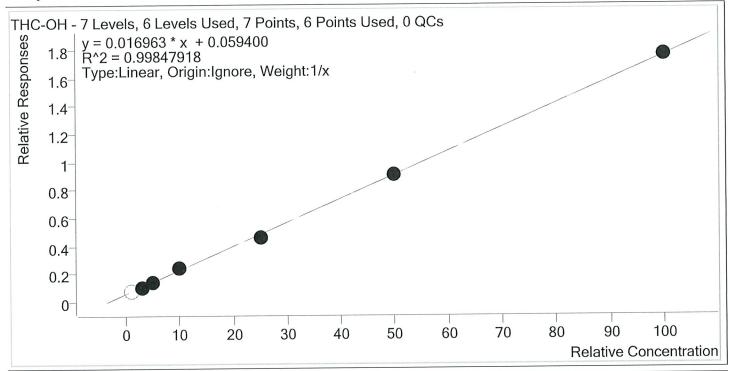
ISP\datastor

Analyte

THC-OH

Internal Standard

THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
MJ Cal 1	1	Х	1.0	1.2	122.2
MJ Cal 2	2	<b>√</b>	3.0	2.8	92.3
MJ Cal 3	3	<b>√</b>	5.0	5.0	99.5
MJ Cal 4	4	<b>√</b>	10.0	11.3	112.5
MJ Cal 5	5	✓	25.0	24.0	96.1
MJ Cal 6	6	✓	50.0	49.7	99.4
MJ Cal 7	7	✓	100.0	100.3	100.3

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Type

Acq. Method

**Sample Position** 

**Injection Volume** Acq. Date-Time

Falco

AM 27 THC quant.m

P3-H6

8/6/2020 12:44:44 PM

Sample Info.

**Data File** Sample Operator

Comment

MJ\_Cal 1.d MJ\_Cal 1

Sarah Pickle

Sample C	hroma	itogr	am																				
+ TIC MRM stuno O 7 6 5 4 3 2 1	(** -> *	*) MJ_	Cal 1	.d (MJ	J_Cal	1)	$\wedge$																
'=	0.2	0.4	0.6	0.8	1	1.2	1.4	1.6	1.8	2	2.2	2.4	2.6	2.8	3	3.2	3.4	3.6	3.8	4	4.2	4.6 iisition	5 (min)

Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.483	98243	∞	5.2 <b>Low</b>	19.30	1226111	1.2218	ng/ml <b>Low</b>
THC-COOH	1.444	55399	∞	46.2	∞	416176	5.4510	ng/ml
THC	3.270	63486	550.75	27.2	149.42	7187065	1.1270	ng/ml <b>Low</b>

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

**Data File** 

Operator

Comment

Sample

MJ\_Cal 2.d

Sarah Pickle

MJ\_Cal 2

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Falco Cal

Type Acq. Method

AM 27 THC quant.m

**Sample Position** 

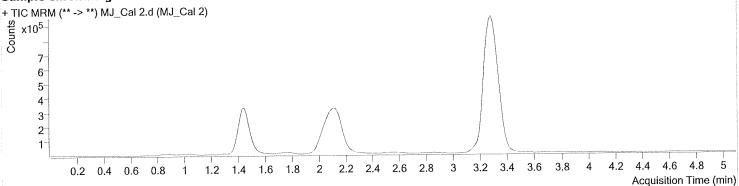
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**Injection Volume** Acq. Date-Time

P3-G6

8/6/2020 12:52:28 PM

Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.483	131943	∞	8.8	&	1240645	2.7677	ng/ml <b>Low</b>
THC-COOH	1.474	101107	∞	49.9	&	422635	10.2475	ng/ml
THC	3.300	188240	1395.24	28.6	&	7254462	2.8932	ng/ml <b>Low</b>

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Type

Acq. Method

**Sample Position** 

**Injection Volume** 

Acq. Date-Time

Falco Cal

AM 27 THC quant.m

P3-F6 10

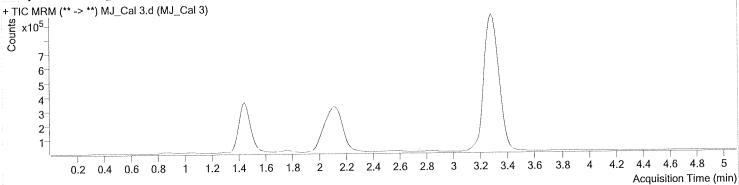
8/6/2020 1:00:03 PM

Sample Info.

**Data File** Sample

Operator Comment MJ\_Cal 3.d MJ\_Cal 3

Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	178379	∞	8.8	∞	1240873	4.9727	ng/ml
THC-COOH	1.474	175245	∞	61.8	∞	417053	18.4275	ng/ml
THC	3.300	318582	1122.93	27.8	∞	7214494	4.7724	ng/ml

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument Type

Falco Cal

Acq. Method Sample Position

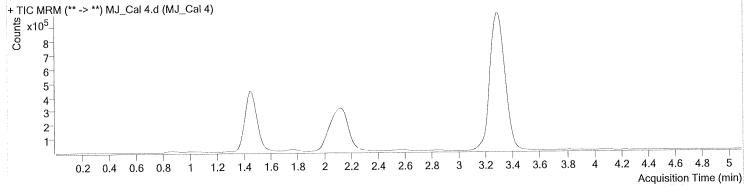
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**Injection Volume** Acq. Date-Time Sample Info.

AM 27 THC quant.m P3-E6

8/6/2020 1:07:37 PM

**Data File** Sample Operator Comment MJ\_Cal 4.d MJ\_Cal 4 Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	305631	∞	9.8	333.16	1221181	11.2523	ng/ml
THC-COOH	1.474	456336	∞	57.6	∞	409884	49.7576	ng/ml
THC	3.300	646176	7176.54	26.3	353.09	7013444	9.7231	ng/ml

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Falco

P3-D6

10

Type Acq. Method Cal AM 27 THC quant.m

8/6/2020 1:15:11 PM

**Sample Position** 

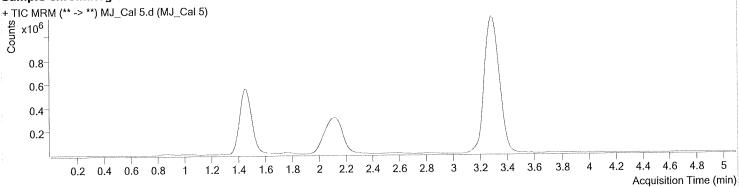
**Injection Volume** 

Acq. Date-Time Sample Info.

Data File Sample

Operator Comment MJ\_Cal 5.d

MJ\_Cal 5 Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	Conc.
THC-OH	1.453	566769	∞	12.2	∞	1213969	24.0210	ng/ml
THC-COOH	1.474	633201	∞	61.1	∞	403406	70.3831	ng/ml
THC	3.300	1642714	3829.43	26.1	∞	7003020	24.4218	ng/ml

Data File

Operator

Comment

Sample

**Batch results** 

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin

MJ\_Cal 6.d

Sarah Pickle

MJ\_Cal 6

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

Falco Cal

Type

Acq. Method **Sample Position**  AM 27 THC quant.m

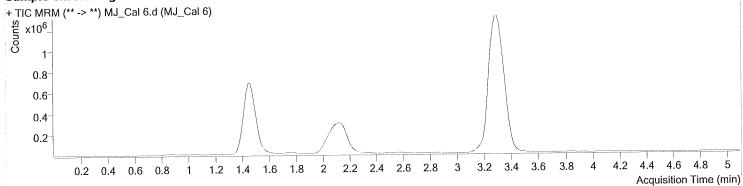
P3-C6

**Injection Volume** Acq. Date-Time

10

8/6/2020 1:22:46 PM

Sample Info.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Fina	l Conc.
THC-OH	1.453	1070947	∞	12.7	&	1186801	49.6949	ng/ml
THC-COOH	1.474	866738	∞	57.2	&	385005	101.1920	ng/ml
THC	3.300	3178991	15991.00	26.2	&	6665732	49.4301	ng/ml

D:\MassHunter\Data\2020\AM 27-28\080620 AM 27 28 SJ SP\QuantResults\AM 27 SJ SP.batch.bin **Batch results** 

Calibration Last Update 8/7/2020 9:36:29 AM

Instrument

**Type** 

Cal

Acq. Method **Sample Position** 

**Injection Volume** 

Acq. Date-Time

8/6/2020 1:30:21 PM

Sample Info.

Falco

AM 27 THC quant.m

P3-B6

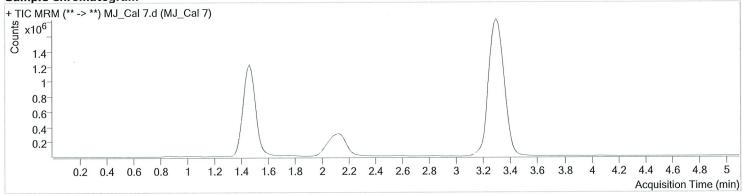
Sample Operator Comment

**Data File** 

MJ\_Cal 7.d

MJ\_Cal 7

Sarah Pickle



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.	
THC-OH	1.453	2087849	∞	12.8	$\infty$	1185836	100.2914	ng/ml
THC-COOH	1.474	2092023	∞	58.4	$\infty$	370673	254.5414	ng/ml
THC	3.300	6499033	3119.23	26.3	$\infty$	6612894	101.6324	ng/ml