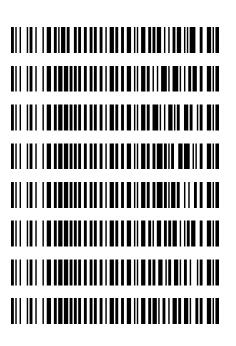
REVIEWED By Anne Nord at 1:14 pm, Aug 13, 2024

Worklist: 6891

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2024-2991	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-2146	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-2177	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-2196	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-2197	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-2210	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQQ
P2024-2213	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2024-2246	1	BCK	AM 27 Blood THC Quant by LC-QQQ



8/8/2024

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

Extraction Date: 08/09/2024 Plate lot#: 240513 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: Lampire 24C52816 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Tamara Salazar</u> Plate Retest Date: 11/13/2024 Mobile phase B: 0.1% Formic acid in Acetonitrile Blank Urine Lot: POC021022 LCMS-QQQ ID: 069901

Pre-Analytic:

- \boxtimes 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:

- \boxtimes 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- ☑ 2. Using a calibrated pipette, pipette 1000µL blood or 1000µL urine in wells of analytical (standards) plate. Pipette ID: 42
- 3. Urine hydrolysis add 100 ul BG turbo, and 200 ul BG turbo buffer to the urine samples in wells of the analytical plate.
- ☑ 4. Add **500µL of 0.1% formic acid in water** in the wells of the analytical plate.
- \boxtimes 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Δ 6. Transfer 700-800µL of blood+acid or urine+acid mixture to corresponding wells of SLE+ plate. Amount transferred: 750 µL
- 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
- \boxtimes 8. Wait 5 minutes.
- 9. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 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)
- \boxtimes 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

- \boxtimes 1. Create batch and process data.
- \boxtimes 2. Make any necessary integration changes, Curve weighting of Linear 1/x with r² values ≥ 0.98 for each analyte
- RT +/- 3% or 0.100 min, whichever is greater, +/- 20% Accuracy for greater than (+/- 30% for 10ng/ml or less). Ion ratios must be within +/- 20% of the averaged calibrators
- \boxtimes 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- \boxtimes 5. Enter QCs into control charting.
- ☑ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Samples were initially injected on 08/09/2024, but the run showed signs of significant ion suppression. The instrument was cleaned, and the samples were reconstituted and re-injected on 08/12/2024. The reinjection data was used for evaluation.

Calibrator 2 did not inject properly with initial injection and was reinjected.



	1	2	2	4		C
	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1			P2024-2213-1	IS + QC_1
В	IS + Cal. 2				P2024-2197-1	IS + Cal. 7
С	IS + Cal. 3				P2024-2196-1	IS + Cal. 6
D	IS + Cal. 4				P2024-2177-1	IS + Cal. 5
E	IS + Cal. 5				P2024-2146-1	IS + Cal. 4
F	IS + Cal. 6			P2024-2210-1	M2024-2991-2	IS + Cal. 3
G	IS + Cal. 7			Neg Urine	Neg Blood	IS + Cal. 2
Н	IS + QC_1			P2024-2246-1	IS + QC_1	IS + Cal. 1

All wells to contain 100 μl of residual DMSO



Batch results

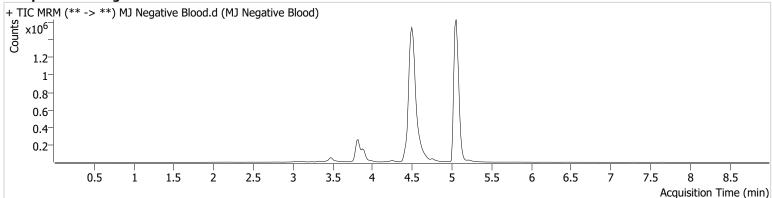
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument Falco (069901) Sample Туре Acq. Method **Sample Position** P5-G5 **Injection Volume** 10 Acq. Date-Time Sample Info.

AM 27 Agilent Method.m 8/12/2024 12:40:25 PM

Data File Sample Operator Comment MJ Negative Blood.d MJ Negative Blood Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

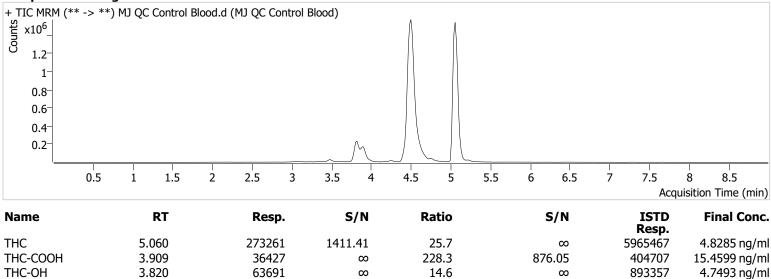
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument Falco (069901) Type QC Acq. Method **Sample Position** P5-A6 **Injection Volume** 10 Acq. Date-Time Sample Info.

AM 27 Agilent Method.m 8/12/2024 12:14:12 PM

Data File Sample Operator Comment MJ QC Control Blood.d MJ QC Control Blood Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.



Data File

Operator

Comment

Sample



Batch results

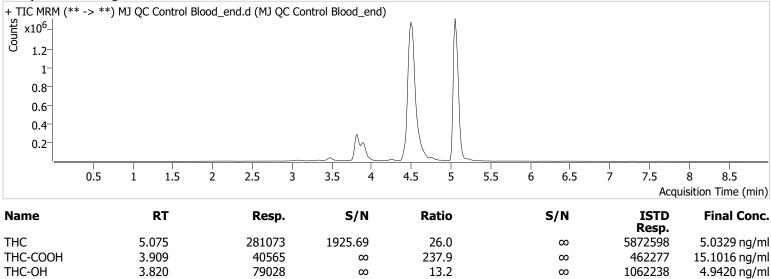
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument Falco (069901) Type QC Acq. Method **Sample Position** P5-A6 **Injection Volume** 10 Acq. Date-Time Sample Info.

AM 27 Agilent Method.m 8/12/2024 5:28:48 PM

MJ QC Control Blood end.d MJ QC Control Blood end Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

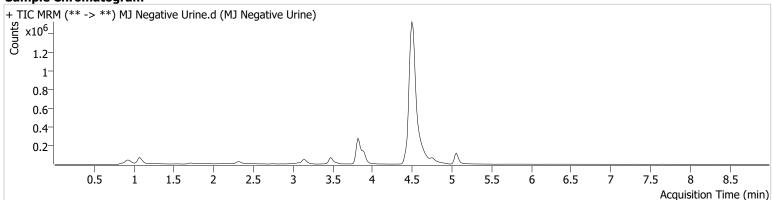
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901
Туре	Sample
Acq. Method	AM 27 Agilent
Sample Position	P5-G4
Injection Volume	10
Acq. Date-Time	8/12/2024 4:1
Sample Info.	

L) Method.m 10:10 PM

Data File Sample Operator Comment MJ Negative Urine.d MJ Negative Urine Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





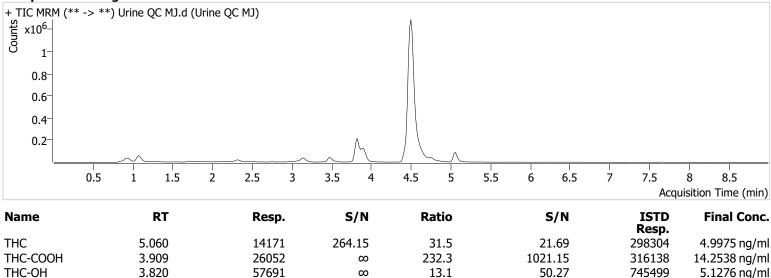
Batch results

D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901)
Туре	QC
Acq. Method	AM 27 Agilent Method.m
Sample Position	P5-H5
Injection Volume	10
Acq. Date-Time	8/12/2024 5:02:35 PM
Sample Info.	

Data File Sample Operator Comment Urine QC MJ.d Urine QC MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.







AM #27 Cannabinoids Quant. Calibration Curve Report

Batc	h resu	lts		D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin								
Last	Cal. U	pdate		8/13/2024 1:19 PM								
Analy	yst Na	me	ISP\Datastor									
Anal	nalyte THC						Internal	Standard	THC-D	3		
Relative Responses H	- 7 Le 1- 0.9- 0.8- 0.7- 0.6- 0.5- 0.4- 0.3- 0.2- 0.1- 0-	y = 0. R^2 =	0100 0.99	52 * x 9969684	- 0.00272	28	hints Used,	3 QC	25			
			0	10	20	30	40	50	60	70	80 90	100
										Relative	Concentration	
		Sample	9		Leve	1	Enabled		Expected Concentration		oncentration	Accuracy
		Cal 1 M	J		1		~		1.0		1.1	110.2
Cal 2 MJ_r			2		~		3.0		3.0	98.6		

~

~

~

r

~

5.0

10.0

25.0

50.0

100.0

4.8

9.6

24.8

49.9

100.9

95.7

95.5

99.2

99.8

100.9

3

4

5

6

7

Cal 3 MJ

Cal 4 MJ

Cal 5 MJ

Cal 6 MJ

Cal 7 MJ





AM #27 Cannabinoids Quant. Calibration Curve Report

	A۱۷	1#	27 C	ann	abin	old	<u>s Qua</u>	ant.	Calib	<u>ratio</u>	<u>n Ci</u>	irve	<u>керо</u>	ort	RENS	IC SE
Batch res	sults		D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin													
Last Cal.	Update		8/13/2024 1:19 PM													
Analyst N	st Name ISP\Datastor															
Analyte			THC-C	ООН					I	nternal	Standa	ard	THC-C	OOH-D	99	
THC-COO 1.6 1.4 1.2 1.2 1.4 0.8 0.6 0.4 0.4 0.2 0	y = 0 R^2 Type).006 = 0.9	s, 7 Lev 301 * x 9992108 Par, Orig	: - 0. 32	007412	2		nts Use	ed, 3 QC).s						
	- <u> </u>	0	20	40	60	80	100	120	140	160	180	200	220 Relative	240	260	
												Ĩ		CULCE		<u> </u>
Sample			Level		Enab	led	Expe Concer	cted tration	Final	Conce	ntration	Ac	curacy			
<u> </u>																

S	ample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
С	al 1 MJ	1	~	5.0	5.5	110.5
Ca	l 2 MJ_r	2	~	10.0	9.8	98.3
С	al 3 MJ	3	~	20.0	19.0	95.0
С	al 4 MJ	4	~	50.0	48.9	97.9
С	al 5 MJ	5	~	75.0	73.9	98.5
С	al 6 MJ	6	~	100.0	97.7	97.7
С	al 7 MJ	7	~	250.0	255.1	102.1
			•	•		





AM #27 Cannabinoids Quant. Calibration Curve Report

Batc	h resu	lts	D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin								
Last	Cal. U	pdate	8/13/2024 1:19 PM								
Anal	yst Na	me	e ISP\Datastor								
Anal	yte		THC-OH Internal Standard THC-OH-D3							H-D3	
Relative Responses H	C-OH - 1.6 1.4 1.2 1- 0.8 0.6 0.4 0.2 0- 0-	y = 0.016	100 * x 9983149	- 0.00517 9	0	7 Points Used	d, 3 QC	5			
		0	10	20	30	40	50	60	70 80		100 Concentration
	Sample			Level		Enabled		pected centration	Final Con	centration	Accuracy
		Cal 1 MJ		1		7		1.0	1.1		107.6
		Cal 2 MJ_r		2		~		3.0	2	.9	96.4
		Cal 3 MJ		3		~		5.0	4	.9	97.1
Cal 4 MJ 4					~		10.0	9	.9	99.4	
1											

r

r

~

25.0

50.0

100.0

24.9

49.5

100.9

Cal 5 MJ

Cal 6 MJ

Cal 7 MJ

5

6

7

99.7

98.9

100.9

Cal 1 MJ.d



Batch results

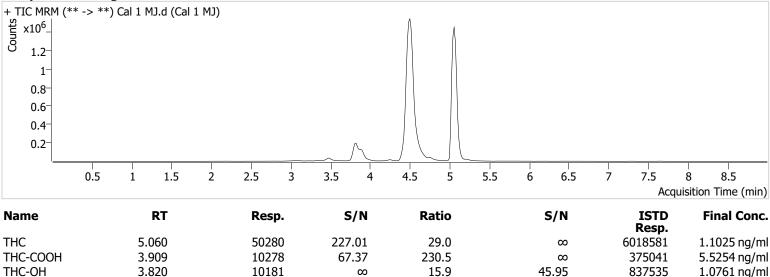
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Falco (069901)
Cal
AM 27 Agilent Method.m
P5-H6
10
8/12/2024 10:15:51 AM

Data File Sample Operator Comment

Cal 1 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

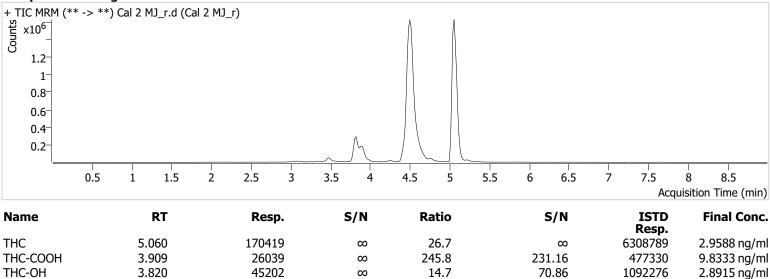
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update8/13/2024 1:19:15 PMInstrumentFalco (069901)TypeCalAcq. MethodAM 27 Agilent Method.mSample PositionP5-G6Injection Volume10Acq. Date-Time8/12/2024 11:48:00 AMSample Info.P3-C1

Data File Sample Operator Comment

Cal 2 MJ_r Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

Cal 2 MJ r.d





Batch results

D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

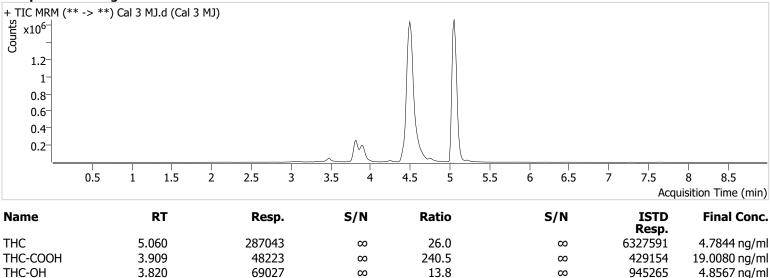
Cal 3 MJ.d

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901)
Туре	Cal
Acq. Method	AM 27 Agilent Method.m
Sample Position	P5-F6
Injection Volume	10
Acq. Date-Time	8/12/2024 10:42:13 AM
Sample Info.	

Data File Sample Operator Comment

Cal 3 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.



Cal 4 MJ.d



Batch results

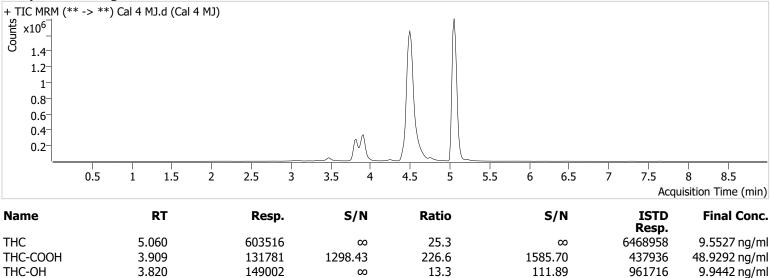
D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

InstrumentFalco (069901)TypeCalAcq. MethodAM 27 Agilent Method.mSample PositionP5-E6Injection Volume10Acq. Date-Time8/12/2024 10:55:20 AMSample Info.Cal

Data File Sample ethod.m Operator Comment

Cal 4 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Cal 5 MJ.d

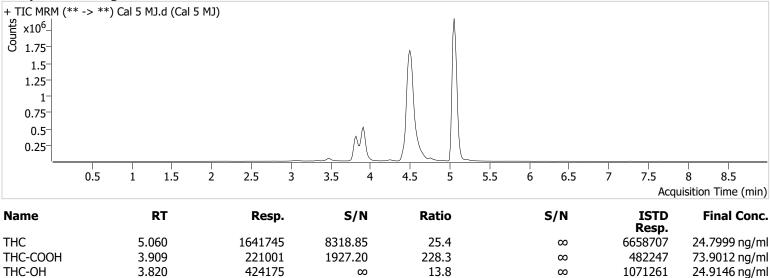
Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901)
Туре	Cal
Acq. Method	AM 27 Agilent Method.
Sample Position	P5-D6
Injection Volume	10
Acq. Date-Time	8/12/2024 11:08:26 A
Sample Info.	

) Method.m 08:26 AM

Data File Sample Operator Comment

Cal 5 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

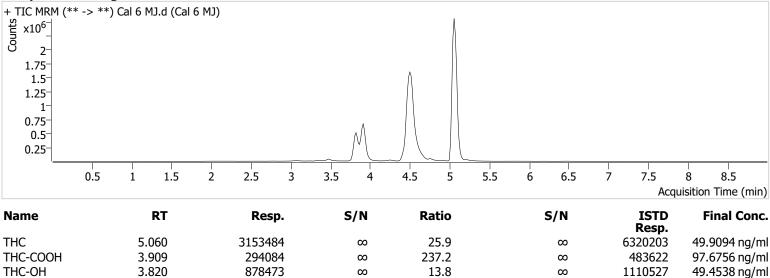
Cal 6 MJ.d

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901)
Туре	Cal
Acq. Method	AM 27 Agilent Method.m
Sample Position	P5-C6
Injection Volume	10
Acq. Date-Time	8/12/2024 11:21:33 AM
Sample Info.	

Data File Sample Operator Comment

Cal 6 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.





Batch results

D:\MassHunter\Data\2024\AM 27 28\080924 AM 27 28 TS\AM 28 reinject after QQQ error\QuantResults\AM 27.batch.bin

Calibration Last Update 8/13/2024 1:19:15 PM

Instrument	Falco (069901)
Туре	Cal
Acq. Method	AM 27 Agilent Method.m
Sample Position	P5-B6
Injection Volume	10
Acq. Date-Time	8/12/2024 11:34:40 AM
Sample Info.	

Data File Sample Operator Comment Cal 7 MJ.d Cal 7 MJ Tamara Salazar Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within the confines of the methods.

