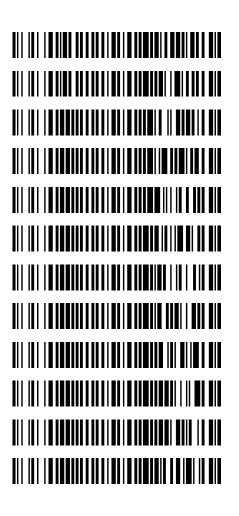


Worklist: 6809

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
M2024-1606	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
M2024-1784	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-0980	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1062	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ
P2024-1104	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1217	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1367	3	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1369	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1393	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1405	2	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1406	1	BCK	AM 27 Blood THC Quant by LC-QQQ
P2024-1418	3	BCK	AM 27 Blood THC Quant by LC-QQQ



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

Extraction Date: 05/10/2024 Plate lot#: 231212 Mobile phase A: 0.1% Formic Acid in LCMS Water Blank Blood Lot: Lampire 23A52595 Column: UCT Selectra DA 100 x 2.1mm 3um Analyst: <u>Sarah Collins</u> Plate Retest Date: 06/12/2024 Mobile phase B: 0.1%/ Formic acid in Acetonitrile Blank Urine Lot: N/A LCMS-QQQ ID: 069901

Pre-Analytic:

- \boxtimes 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.
- \boxtimes 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. Urine hydrolysis: add 1.5mL urine to blank plate, add 250µl 1N KOH. Shake and incubate at 40 degrees for 15 minutes. Using a calibrated pipette, add 1000µl blood and urine (if applicable) (calibrated pipette) into the appropriate wells of analytical (standards) plate. Pipette ID: #42
- \boxtimes 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- Add 500µL of 0.1% formic acid in water to blood samples, and 500µL of saturated phosphate buffer to urine samples in the wells of the analytical plate.
- \boxtimes 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
- 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)
- \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.
- ☑ 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.
- Solution 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: THC-OH 3-100 calibrator 1 dropped due to ratio

Analytical Plate Map

	1	2	3	4	5	6
А	IS + Cal. 1	IS + QC_2			p2024-1217-2	IS + QC_1 start
В	IS + Cal. 2			m2024-1606-1	p2024-1104-1	IS + Cal. 7
с	IS + Cal. 3		p2024-1418-3 p2024-1062-1		IS + Cal. 6	
D	IS + Cal. 4			p2024-1406-1	p2024-0980-1	IS + Cal. 5
E	IS + Cal. 5			p2024-1405-2	m2024-1784-2	IS + Cal. 4
F	IS + Cal. 6			p2024-1393-1	m2024-1606-1*	IS + Cal. 3
G	IS + Cal. 7			p2024-1369-1	negative blood	IS + Cal. 2
н	IS + QC_1			p2024-1367-3	IS + QC_2 end	IS + Cal. 1

X

All wells to contain 100 μl of residual DMSO

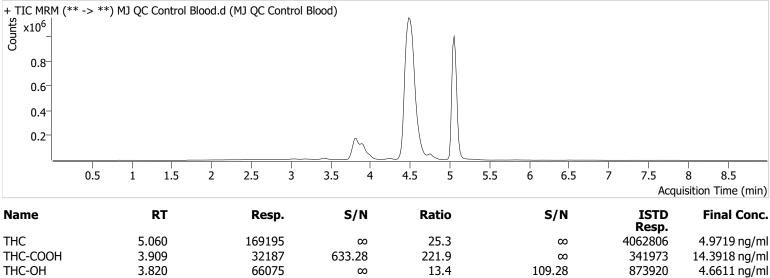
*Moved during analytical step 6 due to blood clot

Samples were moved on the SLE plate; column 4 to column 1, column 5 to column 2, and column 6 to column 3



Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) QC AM 27 Agilent Method.m P1-A3 10 5/10/2024 11:56:57 AM Data File Sample Operator Comment MJ QC Control Blood.d MJ QC Control Blood Sarah Collins 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.



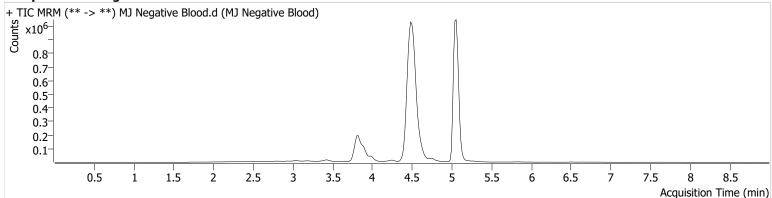


Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Sample AM 27 Agilent Method.m P1-G2 10 5/10/2024 12:23:10 PM Data File Sample Operator Comment

MJ Negative Blood Sarah Collins 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.

MJ Negative Blood.d

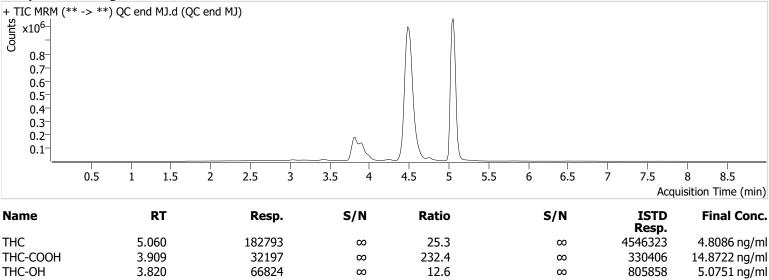




Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) QC AM 27 Agilent Method.m P1-H2 10 5/10/2024 6:03:38 PM Data File Sample Operator Comment QC end MJ.d QC end MJ Sarah Collins 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.

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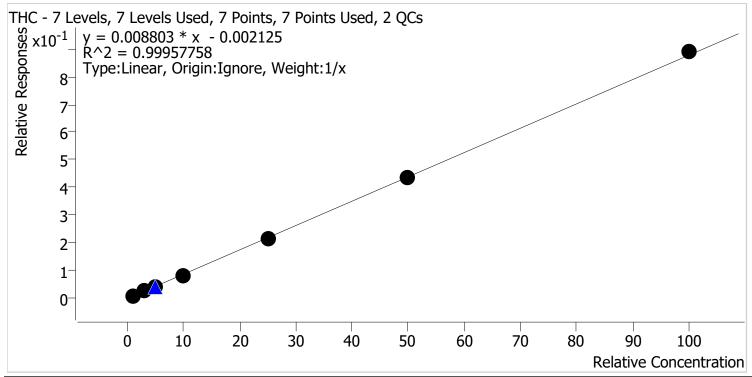




26

AM #27 Cannabinoids Quant. Calibration Curve Report

Analyte	THC	Internal Standard	THC-D3					
Analyst Name	ISP\datastor							
Last Cal. Update	5/14/2024 10:09 AM							
Batch results	D:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.bin							



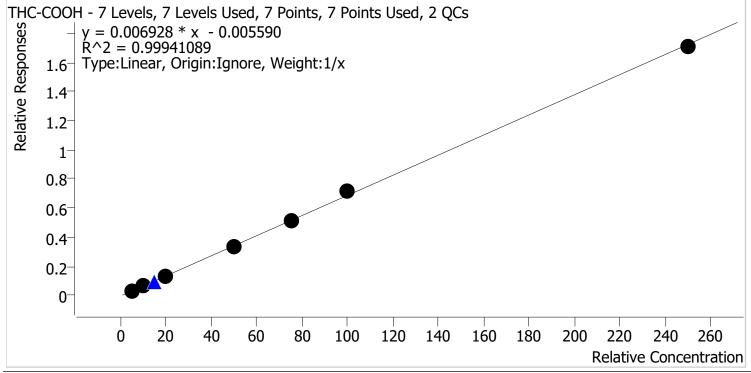
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	~	1.0	1.1	109.7
Cal 2 MJ	2	~	3.0	2.9	98.1
Cal 3 MJ	3	~	5.0	4.9	98.1
Cal 4 MJ	4	~	10.0	9.6	96.2
Cal 5 MJ	5	~	25.0	24.2	96.9
Cal 6 MJ	6	~	50.0	49.8	99.7
Cal 7 MJ	7	~	100.0	101.4	101.4



80

AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results	D:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.bin								
Last Cal. Update	5/14/2024 10:09 AM								
Analyst Name	ISP\datastor								
Analyte	ТНС-СООН	Internal Standard	THC-COOH-D9						
THE COOL 7 Levels 7 Levels Hand 7 Deints 7 Deints Hand 2 OCs									



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓ 5.0 5.1		102.5	
Cal 2 MJ	2	~	10.0	9.9	98.8
Cal 3 MJ	3	~	20.0	19.5	97.6
Cal 4 MJ	4	~	50.0	49.3	98.7
Cal 5 MJ	5	~	75.0	74.4	99.2
Cal 6 MJ	6	~	100.0	104.2	104.2
Cal 7 MJ	7	~	250.0	247.6	99.0



8C

AM #27 Cannabinoids Quant. Calibration Curve Report

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Batc	h resu	lts					\AM 27 28\	051024	AM 27 28 S	SC\QuantRe	sults\A	M 27.batc	h.bin
	Cal. U	-			24 10:09 A	М							
Analyst Name ISP\datastor													
Anal	yte			THC-OF	1				Interr	al Standar	d	THC-OH	-D3
THC	с-он -	7 Lev	els, 6	Levels	Used, 7 P	oints,	6 Points U	sed, 2	QCs				
ses		y = 0).0176	70 * x	- 0.0067	52							
ÖÜ	1.8-			995928		Waial							
sesp	1.6-	Туре	Linea	r, Origi	n:Ignore,	weigi	1L: 1/X						
Relative Responses	1.4-												
elat	1.2-												
Ř	1-												
	0.8-												
	0.6-												
	0.4-												
	0.2												
	0-		01	V									
		I	0	10	20	30	40	50	60	70	80	90	100
			U	10	20	50	40	50	OU	70			Concentration
	Sample Level Enabled Expected Final Concentration Accur					Accuracy							

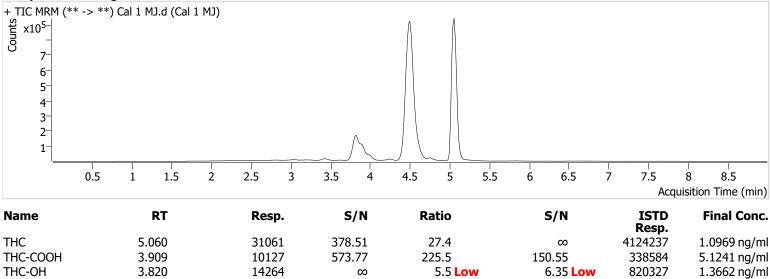
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	1 × 1.0 1.4		136.6	
Cal 2 MJ	2	~	3.0	3.2	106.8
Cal 3 MJ	3	~	5.0	4.8	97.0
Cal 4 MJ	4	~	10.0	9.9	98.8
Cal 5 MJ	5	~	25.0	24.2	96.7
Cal 6 MJ	6	~	50.0	49.9	99.8
Cal 7 MJ	7	~	100.0	101.0	101.0



Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-H3 10 5/10/2024 10:11:59 AM Data File Sample Operator Comment Cal 1 MJ.d Cal 1 MJ Sarah Collins 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.

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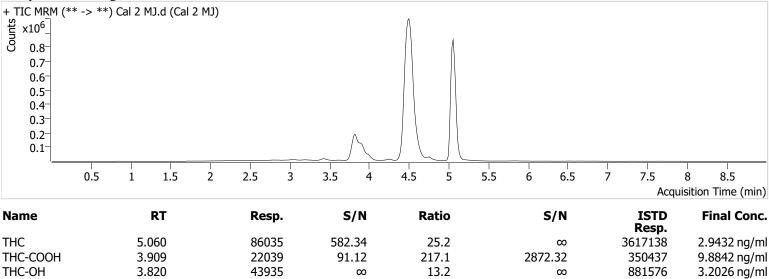
Cal 2 MJ.d



Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-G3 10 5/10/2024 10:25:14 AM Data File Sample Operator Comment

Cal 2 MJ Sarah Collins 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.



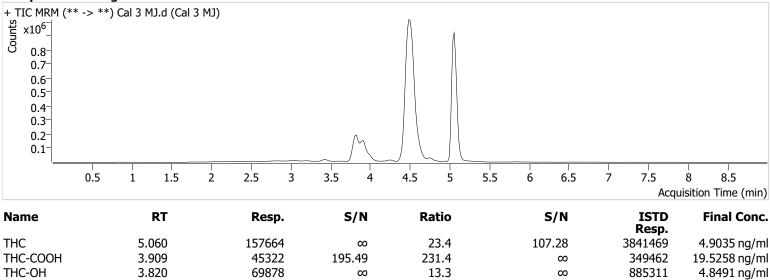
Cal 3 MJ.d



Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-F3 10 5/10/2024 10:38:20 AM Data File Sample Operator Comment

Cal 3 MJ Sarah Collins 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.



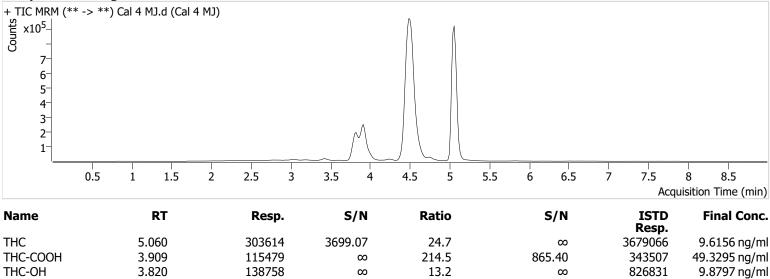
Cal 4 MJ.d



Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-E3 10 5/10/2024 10:51:26 AM Data File Sample Operator Comment

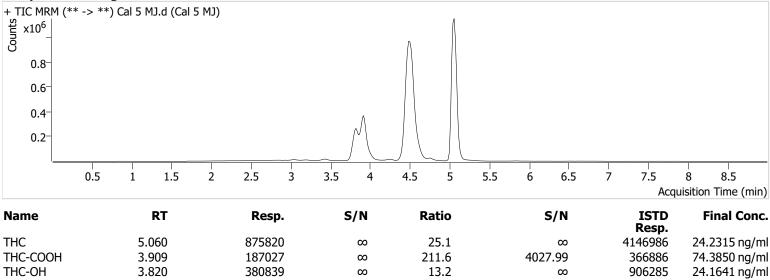
Cal 4 MJ Sarah Collins Only drugs and concentrations listed on the laboratory report itself are appropriate to be used for interpretation purposes. Any drugs or values included in the notes but not included on the report are used by laboratory personnel to make determinations/reach conclusions within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





Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-D3 10 5/10/2024 11:04:34 AM Data File Sample Operator Comment Cal 5 MJ.d Cal 5 MJ Sarah Collins 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.

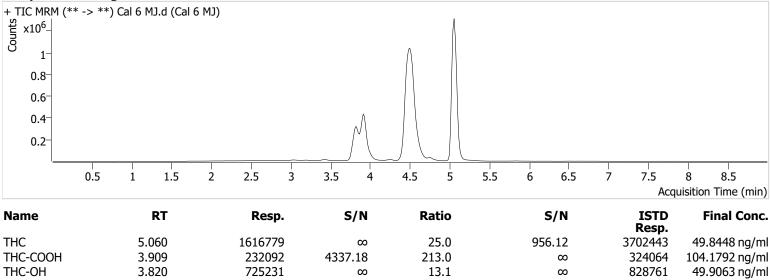




Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-C3 10 5/10/2024 11:17:39 AM Data File Sample Operator Comment Cal 6 MJ.d Cal 6 MJ Sarah Collins 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.

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Batch resultsD:\MassHunter\Data\2024\AM 27 28\051024 AM 27 28 SC\QuantResults\AM 27.batch.binCalibration Last Update5/14/2024 10:09:04 AM

Instrument Type Acq. Method Sample Position Injection Volume Acq. Date-Time Sample Info. Falco (069901) Cal AM 27 Agilent Method.m P1-B3 10 5/10/2024 11:30:45 AM Data File Sample Operator Comment Cal 7 MJ.d Cal 7 MJ Sarah Collins 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.

