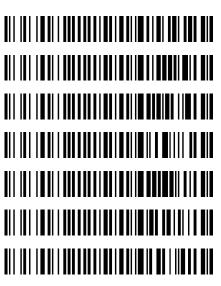
Worklist: 6271

Worklist: 62/1				By Britany Wylie at 8:12 am, Mar 14, 2023
LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION	by Dritany wyne at 6.12 ani, mai 14, 2023
C2023-0383	1	ВСК	AM 27 Blood THC Quant by LC-QQQ	
C2023-0385	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQ	Q
C2023-0393	1	ВСК	AM 27 Blood THC Quant by LC-QQQ	
C2023-0418	1	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQ	Q
C2023-0441	2	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQ	Q
C2023-0443	2	ВСК	AM 27 Blood THC Quant by LC-QQQ	
C2023-0461	3	UCK	AM 27 Urine Cannabinoids Confirmation by LC-QQ	Q



REVIEWED

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

Extraction Date 3-9-23 Plate lot#: 230113 Analyst: <u>Anne Nord</u> Plate re-test: 7/13/23

Mobile phase A: 0.1% Formic Acid in LCMS Water MTBE LCMS Methanol Blank Blood Lot: 22B52016-1 Urine Blank: 12522 LCMS-QQQ ID: 69679

Mobile phase B: 0.1% Formic acid in Acetonitrile Hexane Column: UCT Selectra DA 100 x 2.1mm 3um

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:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- Image: 2. Urine hydrolysis: add 1.5 ml urine to blank plate, add 250 ul 1N KOH mix and incubate at 40 degrees for 15 minutes.

Pipette 1000µL blood (calibrated pipette) Pipette ID: I41142J in wells of analytical (standards) plate.

- ☑ 3. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- A. Pipette 500μL 0.1% formic acid in water blood sample, 500 ul saturated phosphate buffer in urine in wells of analytical plate.
- \boxtimes 5. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.
- **6**. Transfer **800μL of blood+acid** or urine acid 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: 66792
- \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: 66819
- Σ 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
- ☑ 3. 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. SN > 10
- ☑ 4. Case sample response for THC 1ng/ml LOD 3ng/ml LOQ, OH-THC 3ng/mL LOD and LOQ, Carboxy-THC: 5 ng/mL (qualitative only). Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL.
- \boxtimes 5. Did all QCs pass for each analyte? (if not is it describe in comments section)
- ☑ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: Curve limits THC 3-100 dropped cal 1 due to poor response for qualifier ion C2023-0383-1 was not injected on 3-9-23 injected 3-10-23 and evaluated.

C2023-0441-2 was not injected (the wrong position was injected) on 3-9-23 the correct location was injected and evaluated 3-10-23.

4 5								
3	441-2	461-3						
2	Internal urine	negative blood	383-1	393-1	443-2	negative urine	385-1	418-1
1	cal 1	cal 2	cal 3	cal 4	Cal 5	cal 6	cal 7	Internal control (blood)
	а	q	C	q	е	Ļ	50	Ч

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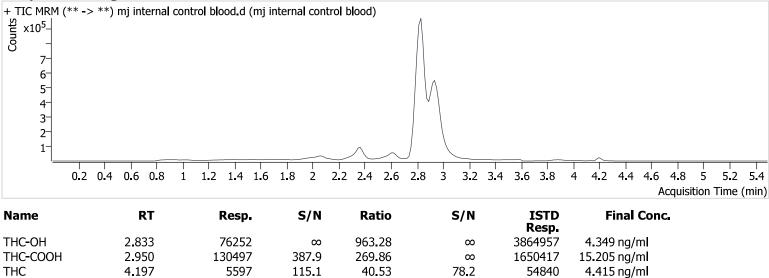
Plate position 3

c2023-0_____

Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Instrument	69679
Туре	QC
Acq. Method	thc quant 60 40.m
Sample Position	P3-H1
Injection Volume	10
Acq. Date-Time	3/9/2023 5:52:39 PM
Sample Info	

Data File Sample Operator Comment mj internal control blood.d mj internal control blood Anne Nord

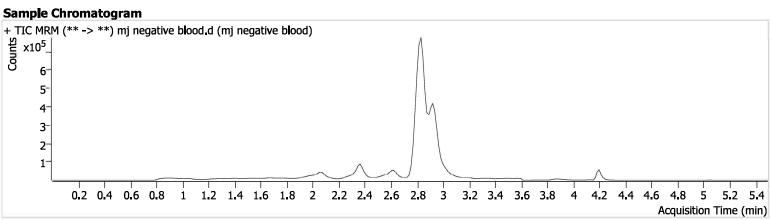


D:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.bin **Batch results** Calibration Last Update 3/10/2023 1:00:11 PM

Instrument	69679
Туре	Sample
Acq. Method	thc quant 60 40.m
Sample Position	P3-B2
Injection Volume	10
Acq. Date-Time	3/9/2023 5:59:15 PM
Sample Info	

Data File Sample Operator Comment

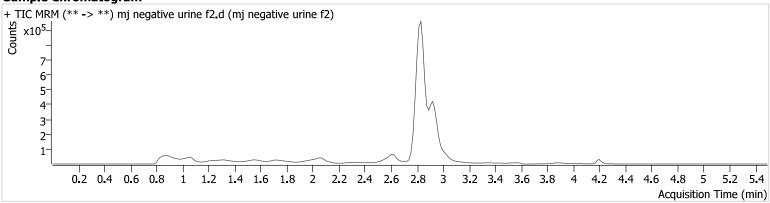
mj negative blood.d mj negative blood Anne Nord



D:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.bin **Batch results** Calibration Last Update 3/10/2023 1:00:11 PM

Instrument 69679 Sample Туре Acq. Method Sample Position P3-F2 **Injection Volume** 10 Acq. Date-Time Sample Info.

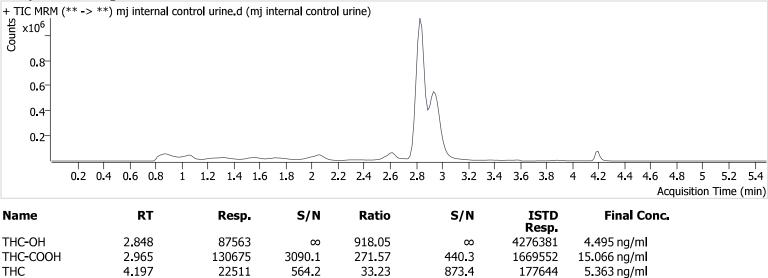
thc quant 60 40.m 3/9/2023 6:32:15 PM Data File Sample Operator Comment mj negative urine f2.d mj negative urine f2 Anne Nord



D:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.bin **Batch results** Calibration Last Update 3/10/2023 1:00:11 PM

Instrument	69679
Туре	Sample
Acq. Method	thc quant 60 40.
Sample Position	P3 - A2
Injection Volume	10
Acq. Date-Time	3/9/2023 7:31:3
Sample Info	

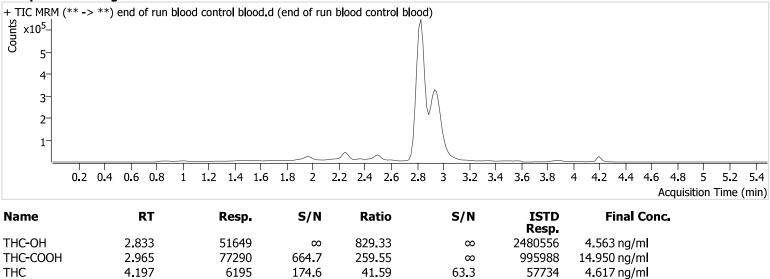
m 9 PM Data File Sample Operator Comment mj internal control urine.d mj internal control urine Anne Nord

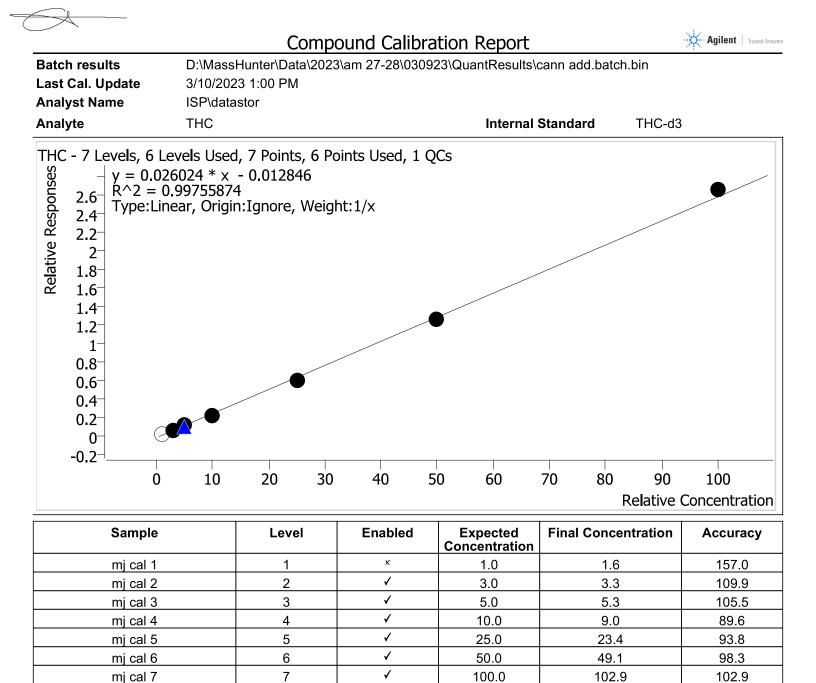


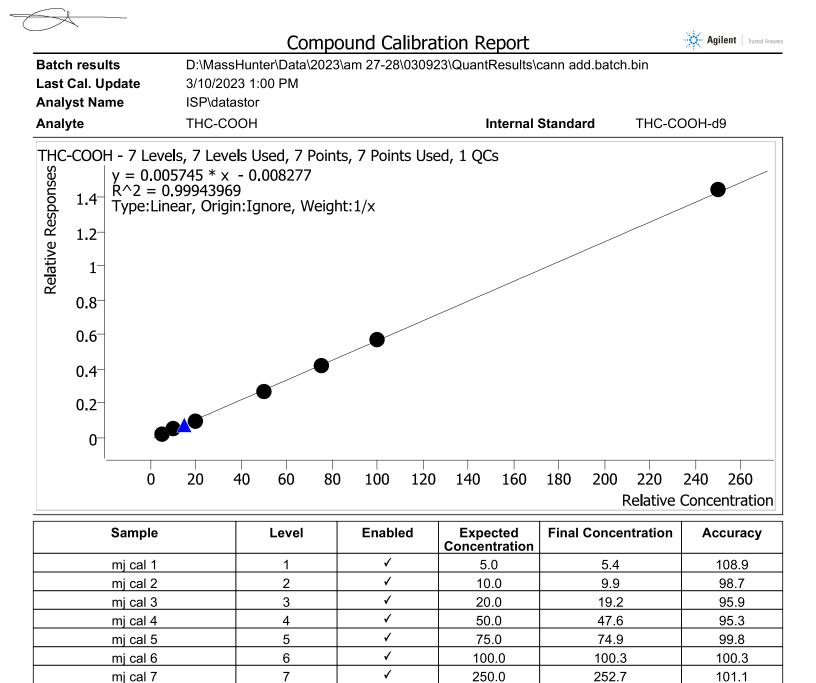
Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

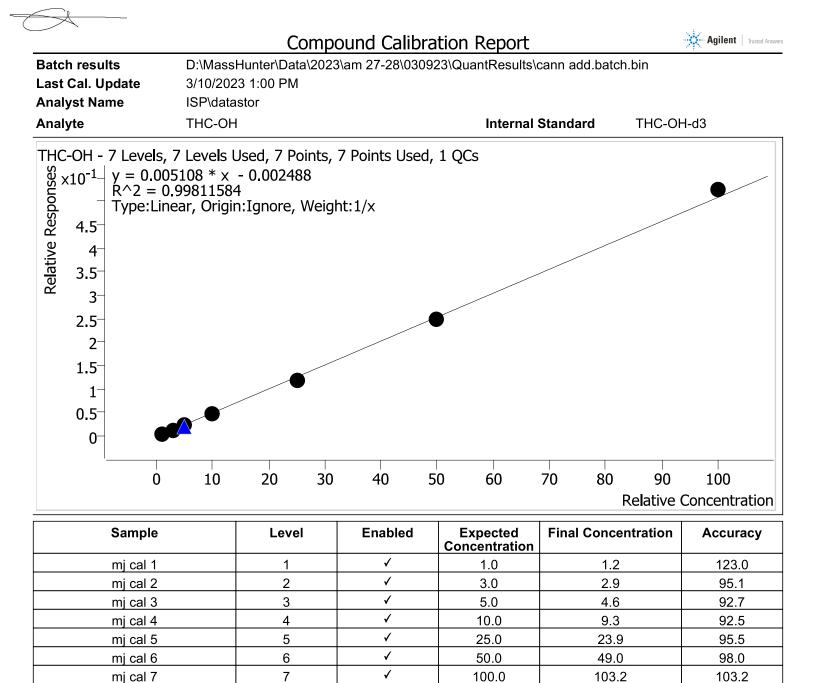
Instrument Type	69679 Sample
Acq. Method	thc quant 60 40.m
Sample Position	P3-H1
Injection Volume	10
Acq. Date-Time	3/10/2023 12:14:05 PM
Sample Info.	

Data File Sample n Operator Comment end of run blood control blood.d end of run blood control blood Anne Nord





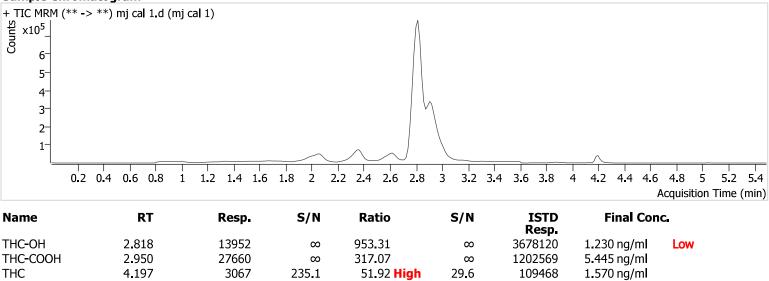




Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Instrument	69679
Type	Cal
Acq. Method	thc quant 60 40.m
Sample Position	P3-A1
Injection Volume	10
Acq. Date-Time	3/9/2023 5:06:19 PM
Sample Info.	5/9/2025 5.00.19 PM

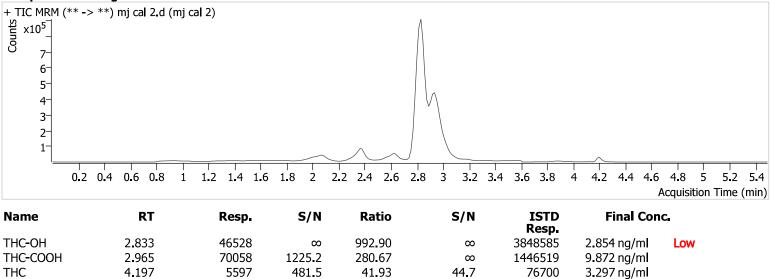
Data File Sample Operator Comment mj cal 1.d mj cal 1 Anne Nord



Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

69679 Cal thc quant 60 40.m P3-B1 10 3/9/2023 5:13:05 PM
5/9/2025 5:15:05 PM

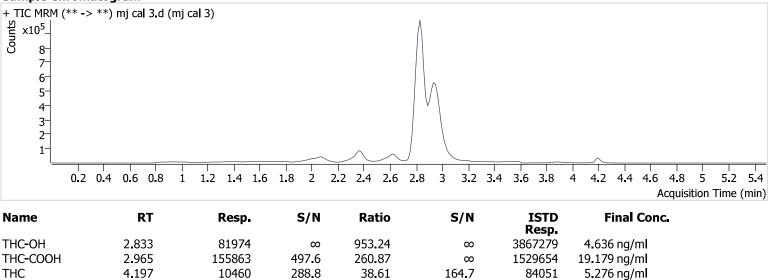
Data File Sample Operator Comment mj cal 2.d mj cal 2 Anne Nord



Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

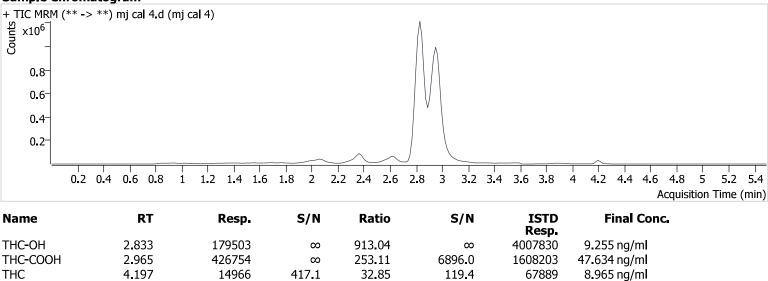
Instrument	69679
Туре	Cal
Acq. Method	thc quant 60 40.m
Sample Position	P3-C1
Injection Volume	10
Acq. Date-Time	3/9/2023 5:19:41 PM
Sample Info.	

Data File Sample Operator Comment mj cal 3.d mj cal 3 Anne Nord



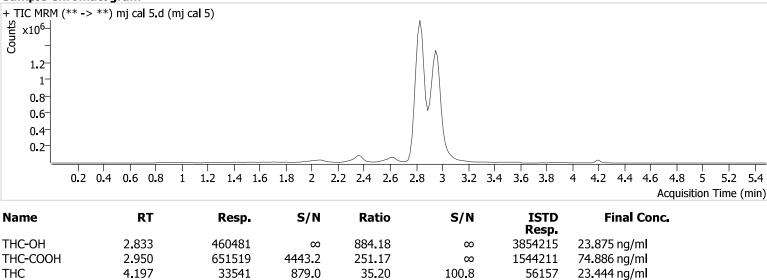
Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Data File Sample Operator Comment mj cal 4.d mj cal 4 Anne Nord



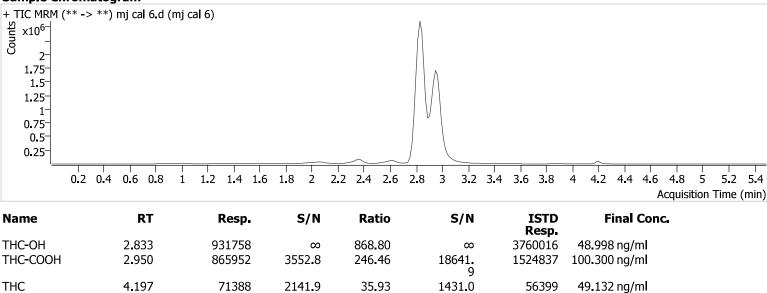
Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Data File Sample Operator Comment mj cal 5.d mj cal 5 Anne Nord



Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Data File Sample Operator Comment mj cal 6.d mj cal 6 Anne Nord



Batch resultsD:\MassHunter\Data\2023\am 27-28\030923\QuantResults\cann add.batch.binCalibration Last Update3/10/2023 1:00:11 PM

Instrument	69679
Type	Cal
Acq. Method	thc quant 60 40.m
Sample Position	P3-G1
Injection Volume	10
Acq. Date-Time	3/9/2023 5:46:03 PM
Sample Info.	3/9/2023 5:46:03 PM

Data File Sample Operator Comment mj cal 7.d mj cal 7 Anne Nord

