










Worklist: 6980

<u>LAB CASE</u>	<u>ITEM</u>	<u>ITEM TYPE</u>	<u>DESCRIPTION</u>	
M2024-2586	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-4240	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
M2024-4396	3	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3321	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3365	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3372	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3395	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3438	1	BCK	AM 27 Blood THC Quant by LC-QQQ	
P2024-3458	1	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: 11/25/2024

Plate lot#: 240919

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: Tamara Salazar

Plate Retest Date: 03/19/2025

Mobile phase B: 0.1% Formic acid in Acetonitrile

Blank Urine Lot:

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, 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.
- ☒ 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: **750 µL**
- ☒ 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 **2.25mL 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 **2.25mL 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. Make any necessary integration changes, Curve weighting of Linear 1/x with r^2 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
- ☒ 4. Did all QCs pass for each analyte? (if not, describe in comments section)
- ☒ 5. Enter QCs into control charting.
- ☒ 6. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS:

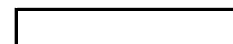
Calibrator 5 did not inject properly with the initial injection. The calibrator was reinjected.

Analytical Plate Map

TS

	1	2	3	4	5	6
A	IS + Cal. 1	IS + QC_1			P2024-3365-1	IS + QC_1
B	IS + Cal. 2	IS + QC_2			P2024-3321-1	IS + Cal. 7
C	IS + Cal. 3				M2024-4396-3	IS + Cal. 6
D	IS + Cal. 4				M2024-4240-1	IS + Cal. 5
E	IS + Cal. 5			P2024-3458-1	M2024-2586-1	IS + Cal. 4
F	IS + Cal. 6			P2024-3438-1	Blood Neg	IS + Cal. 3
G	IS + Cal. 7			P2024-3395-1	IS + QC_2	IS + Cal. 2
H	IS + Cal. 7			P2024-3372-1	IS + QC_1	IS + Cal. 1

All wells to contain 100 µl of residual DMSO



SLE Plate Map

TS

	1	2	3	4	5	6
A					P2024-3365-1	IS + QC_1
B					P2024-3321-1	IS + Cal. 7
C					M2024-4396-3	IS + Cal. 6
D				P2024-3458-1	M2024-4240-1	IS + Cal. 5
E				P2024-3458-1*	M2024-2586-1	IS + Cal. 4
F				P2024-3438-1	Blood Neg	IS + Cal. 3
G				P2024-3395-1	IS + QC_2	IS + Cal. 2
H				P2024-3372-1	IS + QC_1	IS + Cal. 1

*Sample moved during step 6 of the extraction due to clotting.



AM #27 Cannabinoids Quant. Results

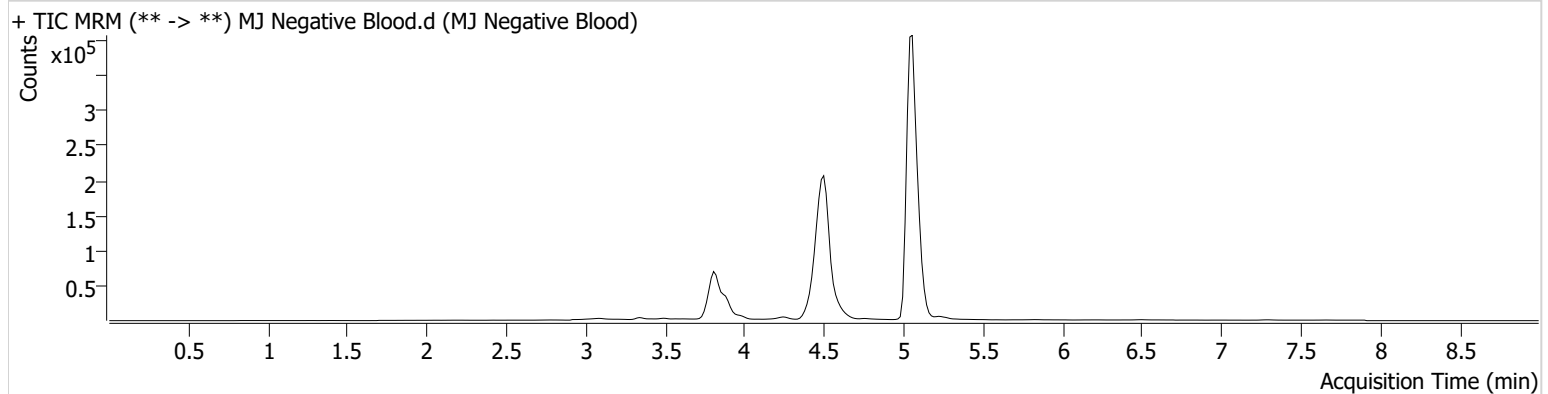
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Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type Sample
Acq. Method AM 27 Agilent Method.m
Sample Position P3-F5
Injection Volume 10
Acq. Date-Time 11/25/2024 2:28:06 PM
Sample Info.

Data File MJ Negative Blood.d
Sample MJ Negative Blood
Operator Tamara Salazar
Comment

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Sample Chromatogram





AM #27 Cannabinoids Quant. Results

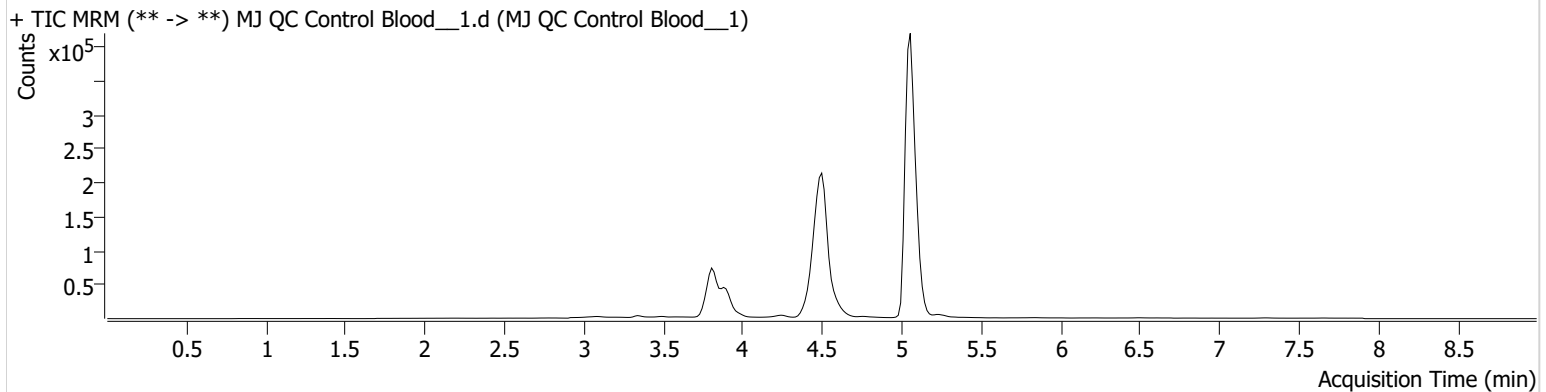
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Instrument Falco (069901)
Type QC
Acq. Method AM 27 Agilent Method.m
Sample Position P3-A6
Injection Volume 10
Acq. Date-Time 11/25/2024 2:01:53 PM
Sample Info.

Data File MJ QC Control Blood__1.d
Sample MJ QC Control Blood__1
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	81927	∞	26.5	201.21	1711904	5.0111 ng/ml
THC-COOH	3.909	11493	215.60	213.0	657.87	107017	14.9914 ng/ml
THC-OH	3.820	27805	∞	13.5	599.13	304666	5.1773 ng/ml

TS



AM #27 Cannabinoids Quant. Results

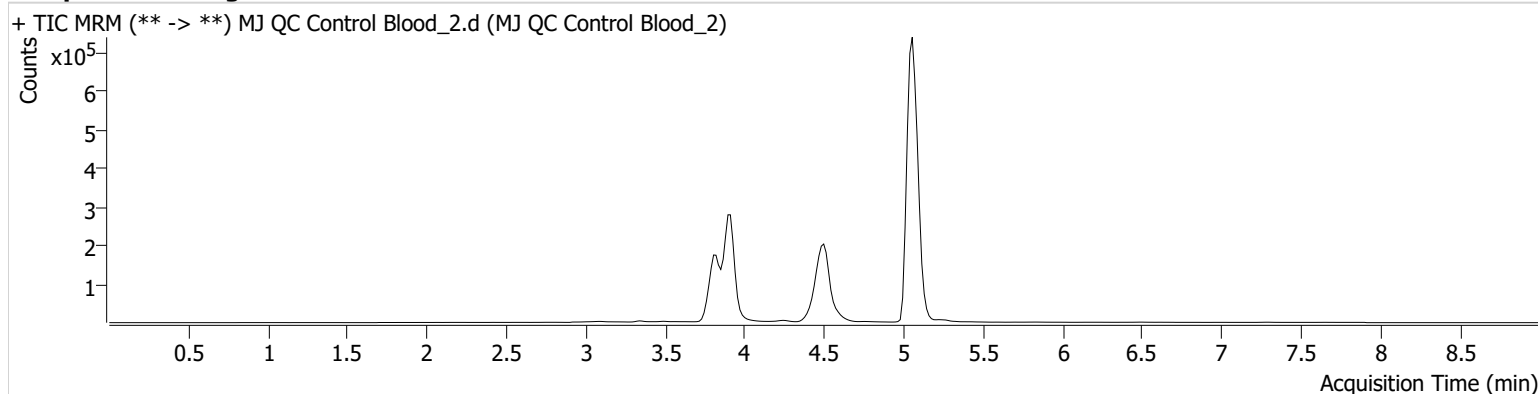
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Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type QC
Acq. Method AM 27 Agilent Method.m
Sample Position P3-G5
Injection Volume 10
Acq. Date-Time 11/25/2024 7:03:34 PM
Sample Info.

Data File MJ QC Control Blood_2.d
Sample MJ QC Control Blood_2
Operator Tamara Salazar
Comment

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Sample Chromatogram



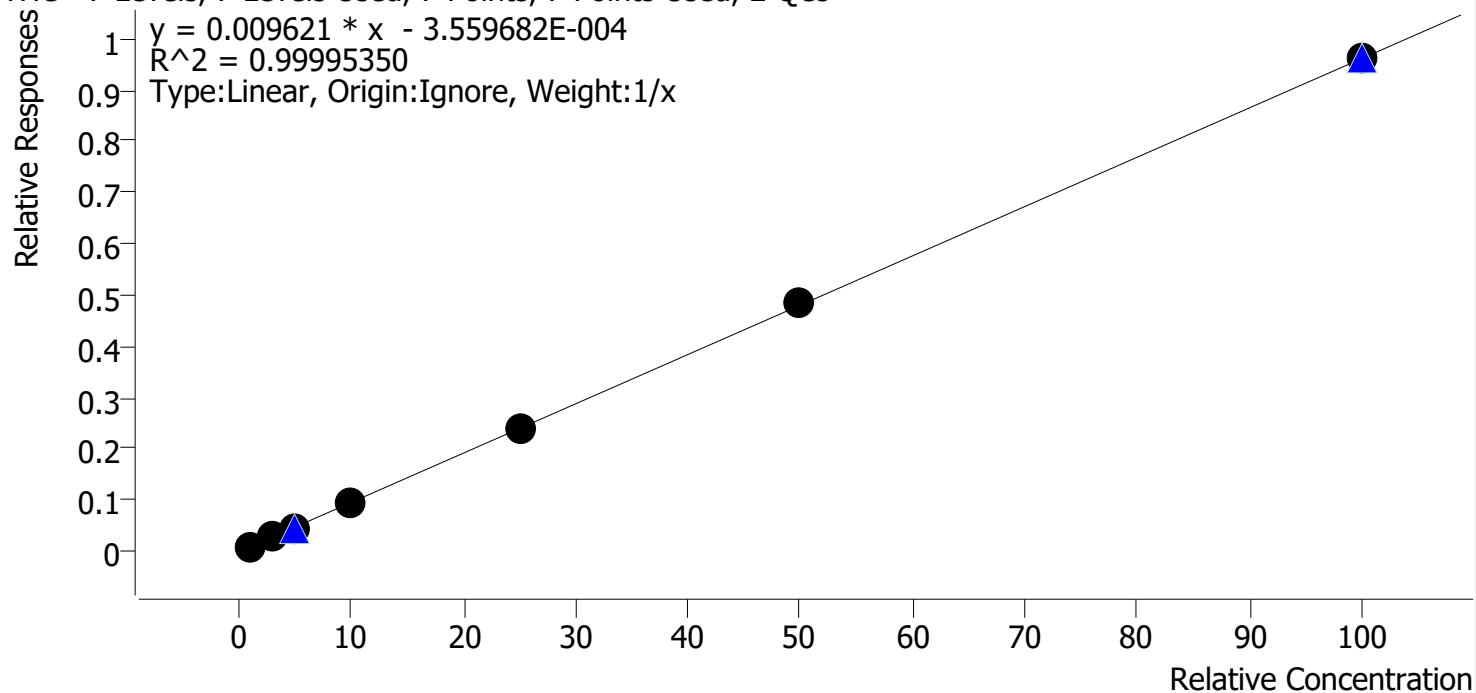
Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	1495736	∞	25.7	∞	1557780	99.8343 ng/ml
THC-COOH	3.909	172944	3137.45	213.4	12536.67	97876	244.0194 ng/ml
THC-OH	3.820	481202	∞	14.1	2599.36	296074	99.2073 ng/ml



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\112524 AM 27 28 TS\QuantResults\AM 27.batch.bin
Last Cal. Update 11/26/2024 3:28 PM
Analyst Name ISP\Datastor
Analyte THC **Internal Standard** THC-D3

THC - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



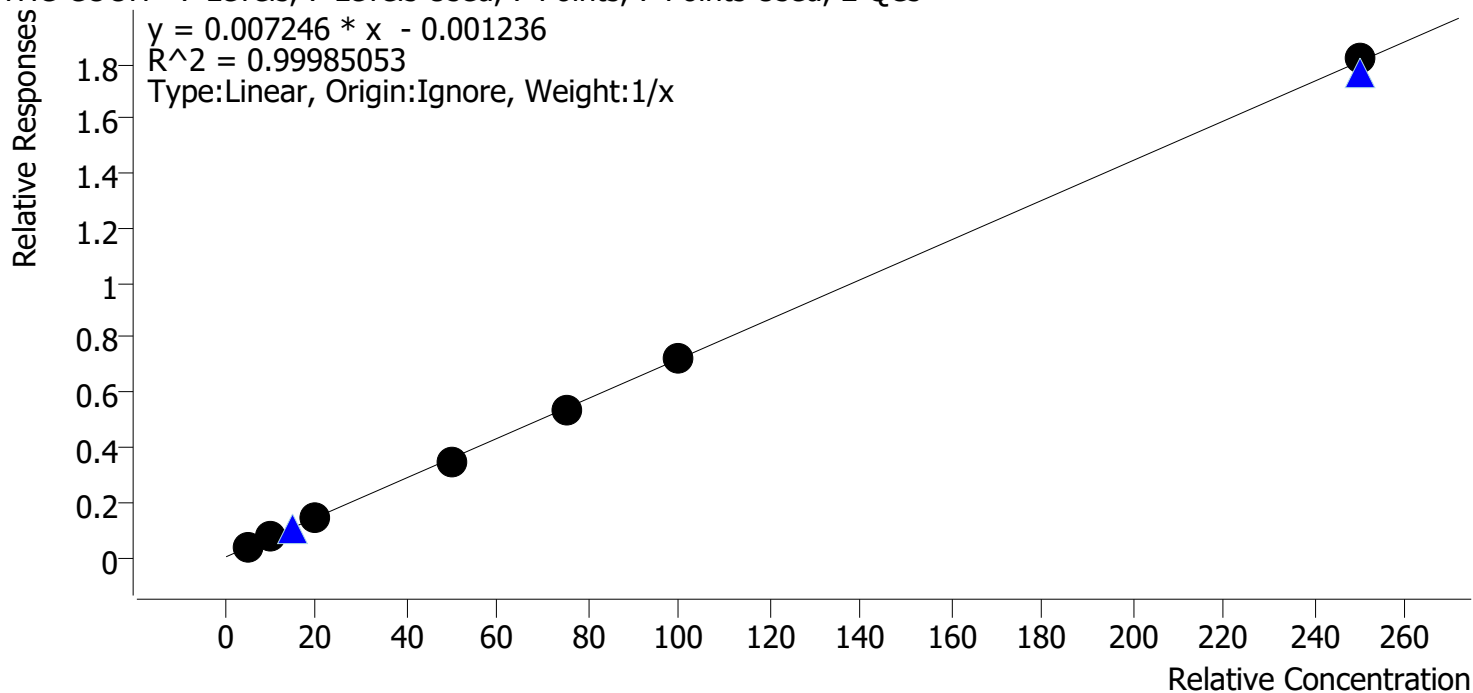
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.0	103.0
Cal 2 MJ	2	✓	3.0	3.0	99.8
Cal 3 MJ	3	✓	5.0	4.9	98.2
Cal 4 MJ	4	✓	10.0	9.8	98.1
Cal 5 MJ_r	5	✓	25.0	25.2	100.6
Cal 6 MJ	6	✓	50.0	50.1	100.3
Cal 7 MJ	7	✓	100.0	100.0	100.0



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\112524 AM 27 28 TS\QuantResults\AM 27.batch.bin
Last Cal. Update 11/26/2024 3:28 PM
Analyst Name ISP\Datastor
Analyte THC-COOH **Internal Standard** THC-COOH-D9

THC-COOH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



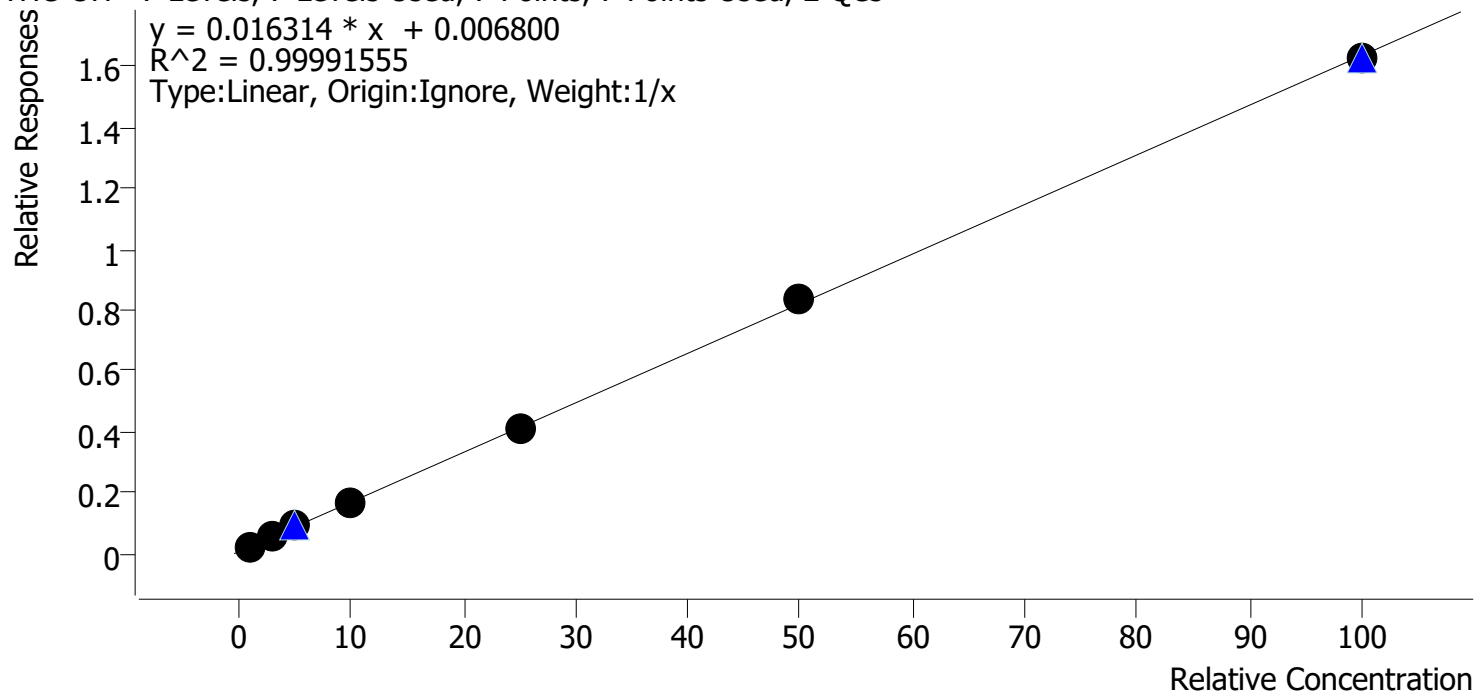
Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	5.0	5.2	104.9
Cal 2 MJ	2	✓	10.0	9.7	97.1
Cal 3 MJ	3	✓	20.0	20.0	100.1
Cal 4 MJ	4	✓	50.0	48.8	97.7
Cal 5 MJ_r	5	✓	75.0	74.6	99.4
Cal 6 MJ	6	✓	100.0	100.3	100.3
Cal 7 MJ	7	✓	250.0	251.4	100.5



AM #27 Cannabinoids Quant. Calibration Curve Report

Batch results D:\MassHunter\Data\2024\AM 27 28\112524 AM 27 28 TS\QuantResults\AM 27.batch.bin
Last Cal. Update 11/26/2024 3:28 PM
Analyst Name ISP\Datastor
Analyte THC-OH **Internal Standard** THC-OH-D3

THC-OH - 7 Levels, 7 Levels Used, 7 Points, 7 Points Used, 2 QCs



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	✓	1.0	1.0	99.3
Cal 2 MJ	2	✓	3.0	3.0	98.6
Cal 3 MJ	3	✓	5.0	5.1	102.0
Cal 4 MJ	4	✓	10.0	9.9	99.3
Cal 5 MJ_r	5	✓	25.0	25.1	100.3
Cal 6 MJ	6	✓	50.0	50.6	101.2
Cal 7 MJ	7	✓	100.0	99.4	99.4



AM #27 Cannabinoids Quant. Results

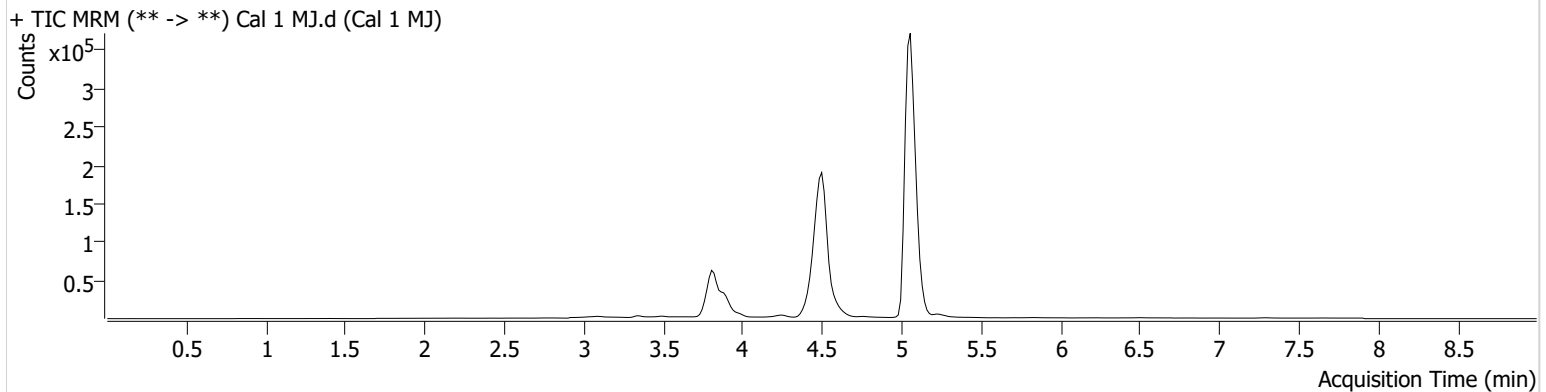
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Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-H6
Injection Volume 10
Acq. Date-Time 11/25/2024 12:16:54 PM
Sample Info.

Data File Cal 1 MJ.d
Sample Cal 1 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	15389	274.11	28.9	95.52	1610164	1.0304 ng/ml
THC-COOH	3.909	3440	33.79	211.4	245.17	93594	5.2427 ng/ml
THC-OH	3.820	6259	∞	12.6	31.32	272147	0.9928 ng/ml



AM #27 Cannabinoids Quant. Results

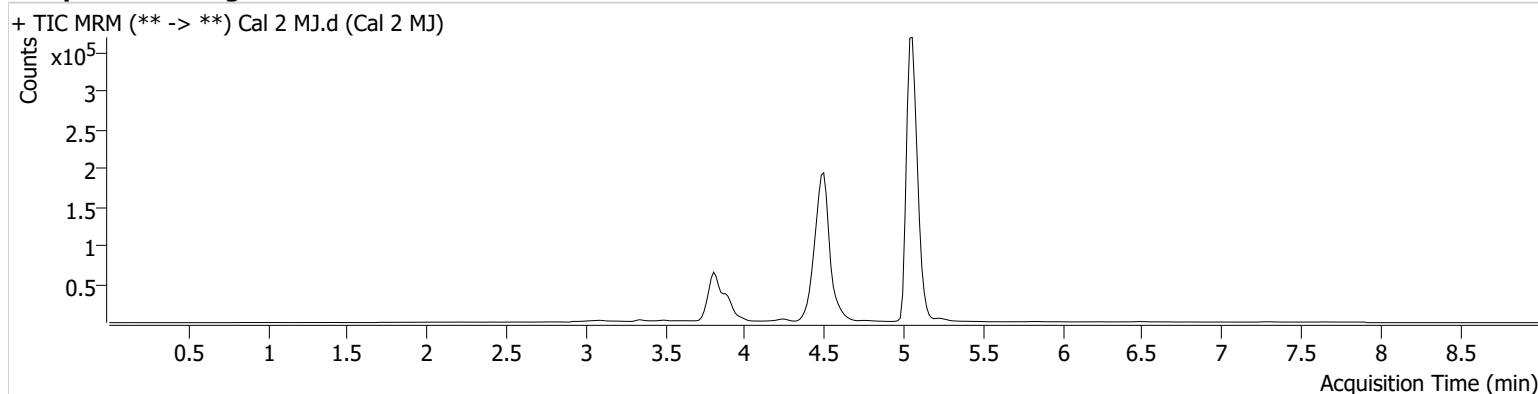
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Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-G6
Injection Volume 10
Acq. Date-Time 11/25/2024 12:30:09 PM
Sample Info.

Data File Cal 2 MJ.d
Sample Cal 2 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	45996	∞	27.6	∞	1616521	2.9944 ng/ml
THC-COOH	3.909	6664	185.02	219.5	334.51	96373	9.7140 ng/ml
THC-OH	3.820	15312	∞	13.8	73.26	278035	2.9590 ng/ml



AM #27 Cannabinoids Quant. Results

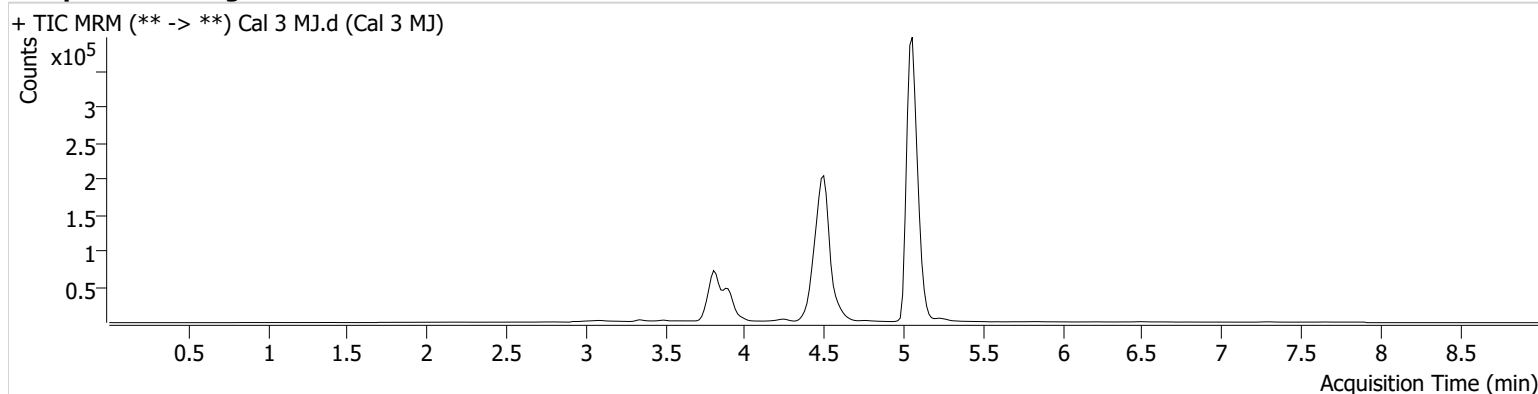
Batch results D:\MassHunter\Data\2024\AM 27 28\112524 AM 27 28 TS\QuantResults\AM 27.batch.bin
Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-F6
Injection Volume 10
Acq. Date-Time 11/25/2024 12:43:16 PM
Sample Info.

Data File Cal 3 MJ.d
Sample Cal 3 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	79235	∞	25.9	∞	1690333	4.9091 ng/ml
THC-COOH	3.909	14795	193.17	212.9	2033.32	102850	20.0224 ng/ml
THC-OH	3.820	27273	∞	13.6	97.41	303160	5.0975 ng/ml



AM #27 Cannabinoids Quant. Results

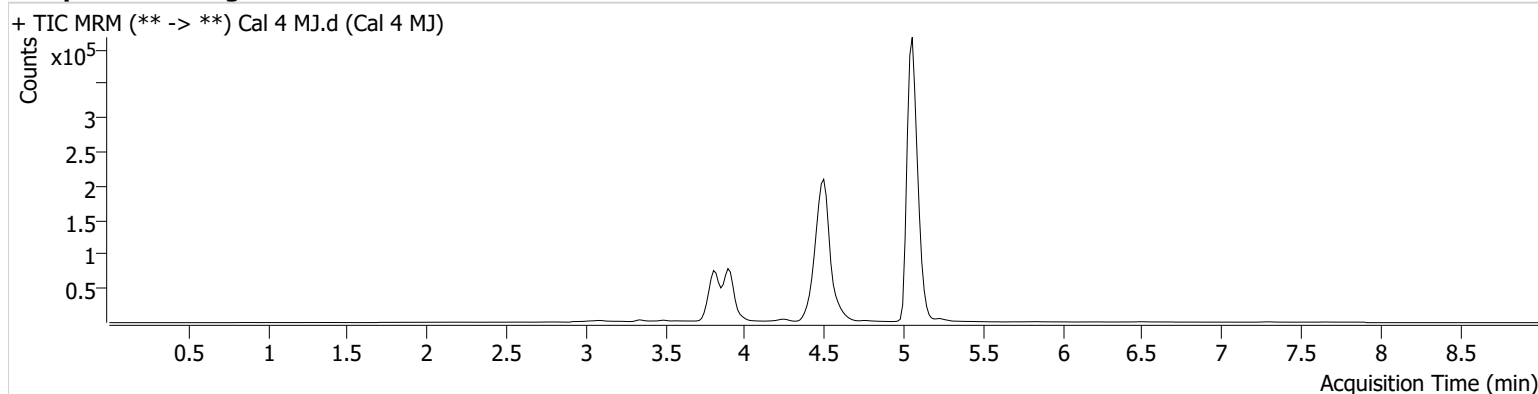
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Calibration Last Update 11/26/2024 3:28:26 PM

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Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-E6
Injection Volume 10
Acq. Date-Time 11/25/2024 12:56:22 PM
Sample Info.

Data File Cal 4 MJ.d
Sample Cal 4 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	152752	∞	26.3	877.93	1624729	9.8088 ng/ml
THC-COOH	3.909	34940	∞	218.9	2270.86	99094	48.8297 ng/ml
THC-OH	3.820	48971	∞	14.4	285.74	290100	9.9304 ng/ml



AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2024\AM 27 28\112524 AM 27 28 TS\QuantResults\AM 27.batch.bin
Calibration Last Update 11/26/2024 3:28:26 PM

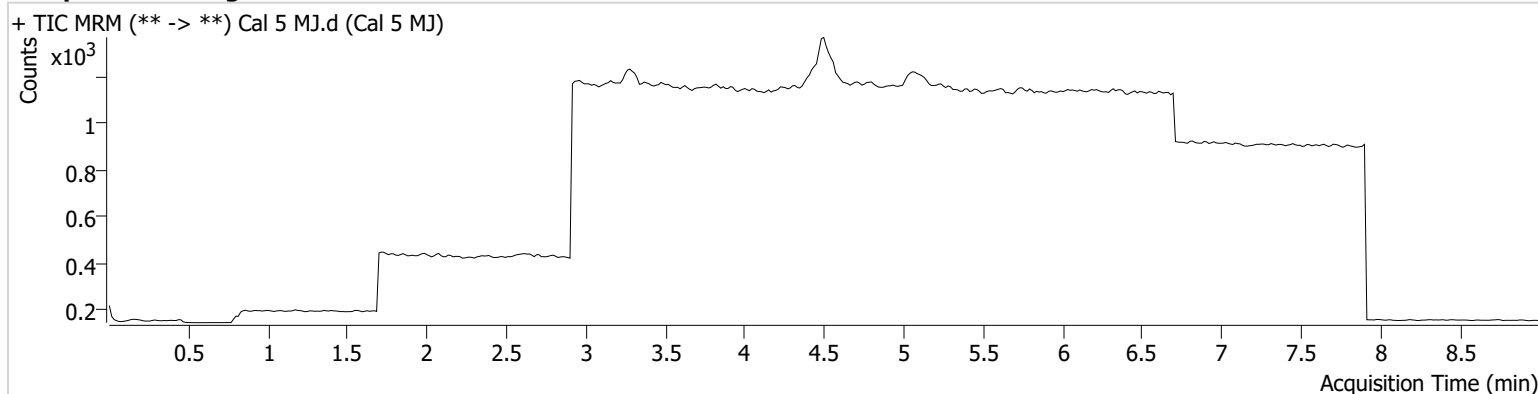
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Type Sample
Acq. Method AM 27 Agilent Method.m
Sample Position P3-D6
Injection Volume 10
Acq. Date-Time 11/25/2024 1:09:28 PM
Sample Info.

Calibrator did not inject properly. Please refer to re-injection data.

Data File Cal 5 MJ.d
Sample Cal 5 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram





AM #27 Cannabinoids Quant. Results

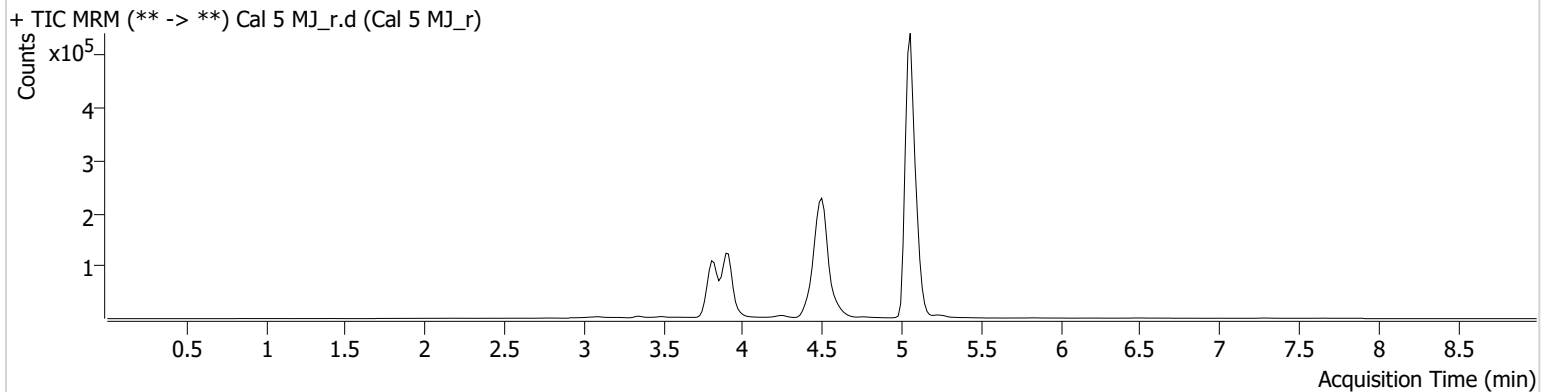
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Calibration Last Update 11/26/2024 3:28:26 PM

Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-D6
Injection Volume 10
Acq. Date-Time 11/25/2024 2:41:30 PM
Sample Info. Re-inject data.

Data File Cal 5 MJ_r.d
Sample Cal 5 MJ_r
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	423953	∞	25.6	∞	1753934	25.1601 ng/ml
THC-COOH	3.909	62209	∞	217.9	3747.99	115380	74.5778 ng/ml
THC-OH	3.820	142145	∞	14.0	387.54	341754	25.0781 ng/ml



AM #27 Cannabinoids Quant. Results

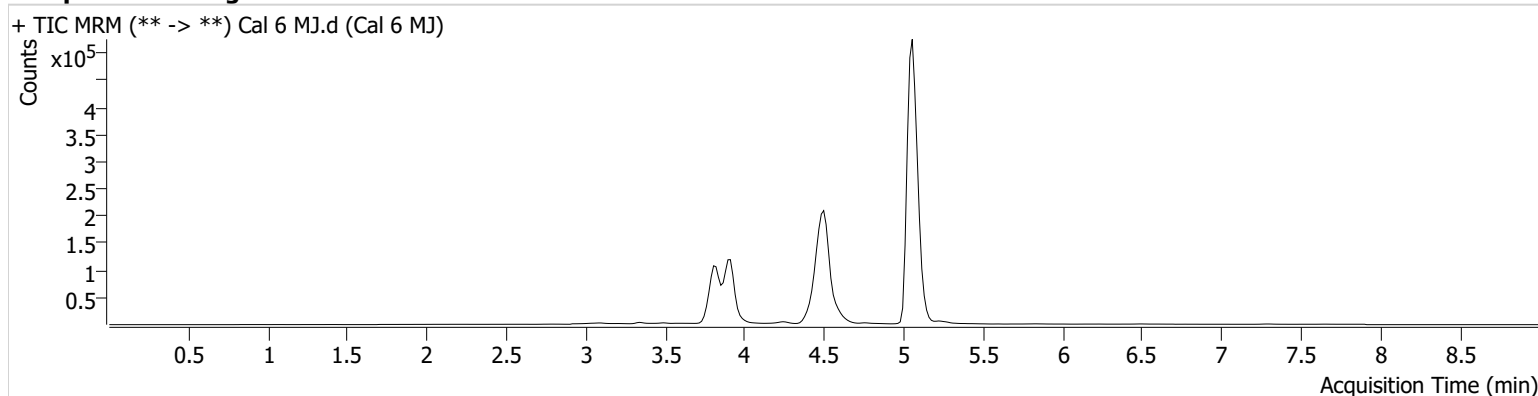
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Instrument Falco (069901)
Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-C6
Injection Volume 10
Acq. Date-Time 11/25/2024 1:22:34 PM
Sample Info.

Data File Cal 6 MJ.d
Sample Cal 6 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	688841	∞	25.4	∞	1428940	50.1413 ng/ml
THC-COOH	3.909	64118	1363.40	215.5	4036.22	88413	100.2530 ng/ml
THC-OH	3.820	215032	∞	14.1	1141.11	258475	50.5776 ng/ml



AM #27 Cannabinoids Quant. Results

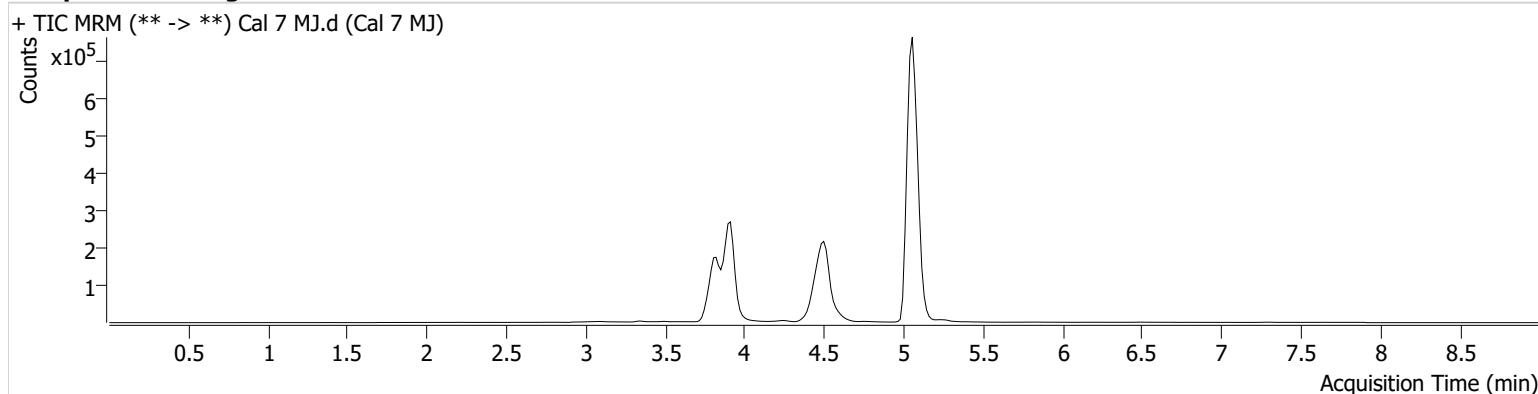
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Calibration Last Update 11/26/2024 3:28:26 PM

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Type Cal
Acq. Method AM 27 Agilent Method.m
Sample Position P3-B6
Injection Volume 10
Acq. Date-Time 11/25/2024 1:35:40 PM
Sample Info.

Data File Cal 7 MJ.d
Sample Cal 7 MJ
Operator Tamara Salazar
Comment

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Sample Chromatogram



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.060	1522398	∞	25.4	∞	1583618	99.9558 ng/ml
THC-COOH	3.909	170905	3884.25	209.5	15234.09	93895	251.3604 ng/ml
THC-OH	3.820	488807	∞	14.1	5403.54	300279	99.3645 ng/ml