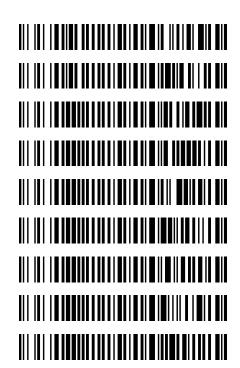




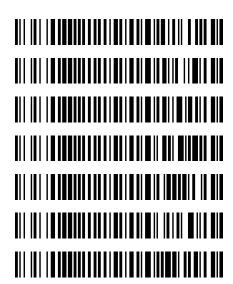
Worklist: 6535

LAB CASE ITEM	ITEM TYPE	DESCRIPTION
M2023-4038	СОВСК	AM 27 Blood THC Quant by LC-QQQ
M2023-4209 5	BCK	AM 27 Blood THC Quant by LC-QQQ
P2023-2690	BCK	AM 27 Blood THC Quant by LC-QQQ
P2023-2706	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-2971	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-2977	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-3022	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-3037	BCK	AM 27 Blood THC Quant by LC-QQQ
P2023-3053	ВСК	AM 27 Blood THC Quant by LC-QQQ



Worklist: 6529

LAB CASE	<u>ITEM</u>	ITEM TYPE	DESCRIPTION
P2023-2558	3	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-2564	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2023-2567	1	BLOOD	AM 27 Blood THC Quant by LC-QQQ
P2023-2740	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-2784	1	вск	AM 27 Blood THC Quant by LC-QQQ
P2023-2891	1	ВСК	AM 27 Blood THC Quant by LC-QQQ
P2023-3057	1	BCK	AM 27 Blood THC Quant by LC-QQQ



Samples will be re-extracted and ran at a later date.



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

Extraction Date: 10/18/2023 Analyst: Celena Shrum

Plate lot#: 230627 Plate Retest Date: 12/27/2023

Mobile phase A: 0.1% Formic Acid in LCMS Water **Mobile phase B:** 0.1% Formic acid in Acetonitrile

Blank Blood Lot: Lampire 23E52981 Column: Phenomenex Phenyl Hexyl (4.6x50mm, 2.6um)

LCMS-QQQ ID: 069901

Pre-Analytic:

☑ 1. Check levels of mobile phases and needle wash refill as needed. Ensure waste is not full.

Analytic:

- ☑ 1. Remove standards, plate, controls, and samples from cold storage. Allow to reach room temperature.
- Urine hydrolysis (if applicable): 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 or 1000μl hydrolyzed urine into the appropriate wells of the analytical (standards) plate. Pipette ID: #42
- ☑ 4. Place on shaking incubator at ambient temp., 900rpm for 15 minutes.

- ☑ 7. Transfer 800µL of blood+acid mixture or urine+acid to corresponding wells of SLE+ plate.
- 8. 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 9. Wait 5 minutes.
- ≥ 10. Add 2.25mL MTBE. (Add in 3 increments of 750uL)
- \boxtimes 11. Wait 5 minutes.
- □ 12. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ≥ 13. Add 2.25mL Hexane. (Add in 3 increments of 750uL)
- \boxtimes 14. Wait 5 minutes.
- □ 15. Apply positive pressure for approx. 15 seconds. (10-15 PSI- Selector to the left).
- ☑ 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 \ge 0.98 for each analyte
- ✓ 4. Case sample response for THC 1ng/mL and OH-THC 3ng/mL (quantitative), Carboxy-THC: 5ng/mL (qualitative only) will be reported. Samples with a THC or OH-THC response over 50 ng/mL will be reported out as greater than 50 ng/mL. THC concentrations of 1-3ng/mL will be reported qualitatively.
- ☑ 5. Did all QCs pass for each analyte? (if not, describe in comments section)
- ⊠ 7. Central File Packet to include: LIMS Worklist, Method Checklist, Calibration and Control Reports

COMMENTS: The run stopped acquiring about half-way through. The samples that failed to acquire as well as the end QC were reconstituted, and the run was restarted the next day (10/19/23). The end QC had missed being reconstituted and did not inject, so it was reconstituted and reinjected on 10/20/23. Curve Limits: THC 3-100- Calibrator 1 dropped due to accuracy and ratio.

Tamara Salazar included case samples in this run. Celena Shrum acted as the primary analyst and performed steps 4-17. I, Tamara Salazar, approve of all steps utilized in this method.

Due to poor chromatography in some compounds, the samples included in worklist 6529 will be re-extracted and ran at a later date.

	1	2	3	4	5	6
а				P2023-2784-1 TS	P2023-2977-1	QC 1
b				P2023-2740-1 TS	P2023-2971-1	cal 100 ng
С				P2023-2567-1 TS	P2023-2706-1	cal 50 ng
d				P2023-2564-1 TS	P2023-2690-1	cal 25 ng
e				P2023-2558-3 TS	M2023-4209-5	cal 10ng
f			P2023-3022-1	P2023-3053-1	M2023-4038-1	cal 5 ng
g			P2023-3057-1 TS	P2023-3037-1	NEG Blood	cal 3 ng
h			P2023-2891-1 TS	P2023-3022-1*	QC 2	cal 1ng

^{*}Moved during SLE portion of the extraction

D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin **Batch results Calibration Last Update** 10/20/2023 10:03:02 AM

Instrument **Type** Acq. Method **Sample Position** Falco (069901) Sample

AM 27 Agilent Method.m

P1-G5 **Injection Volume** 10

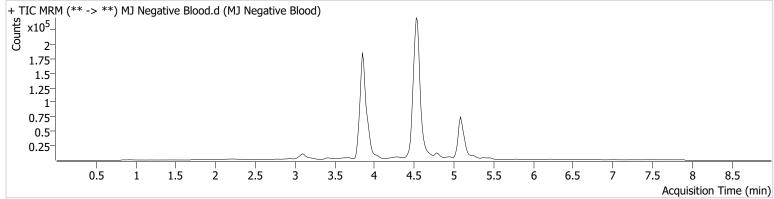
Acq. Date-Time Sample Info.

10/18/2023 6:09:47 PM

Data File Sample Operator Comment

MJ Negative Blood.d MJ Negative Blood Celena Shrum

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.



D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin **Batch results Calibration Last Update** 10/20/2023 10:03:02 AM

Instrument **Type** Acq. Method **Sample Position** Falco (069901) QC

P1-A6

Injection Volume Acq. Date-Time Sample Info.

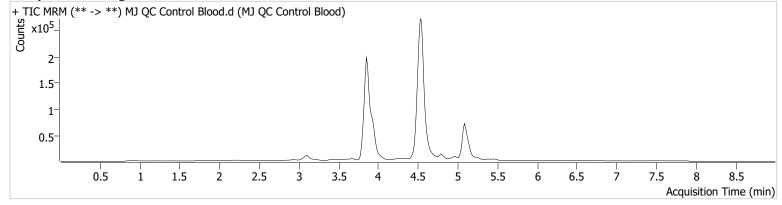
AM 27 Agilent Method.m

10/18/2023 5:43:33 PM

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Data File MJ QC Control Blood.d **Sample** MJ QC Control Blood Operator Celena Shrum Comment

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	11289	43.36	32.0	∞	271386	4.4886 ng/ml
THC-COOH	3.939	1 4 527	272.23	245.6	675.65	163919	14.3398 ng/ml
THC-OH	3.865	51857	∞	13.5	72.89	861140	4.3919 ng/ml

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type Acq. Method Falco (069901)

QC

AM 27 Agilent Method.m

Sample Position Injection Volume Acq. Date-Time P1-H5 10

10/20/2023 8:44:32 AM

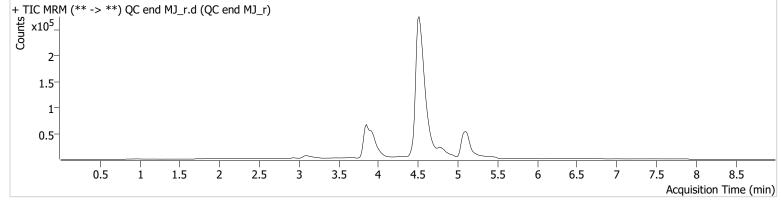
Sample Info.

Data File Sample Operator Comment

QC end MJ_r.d QC end MJ_r Celena Shrum

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conclusions within the confines of the methods.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	10624	∞	29.1	16.91	317024	3.6758 ng/ml
THC-COOH	3.95 4	7963	194.04	251.6	∞	83159	15.4394 ng/ml
THC-OH	3.865	27863	∞	12.7	23.87	413341	4.9174 ng/ml

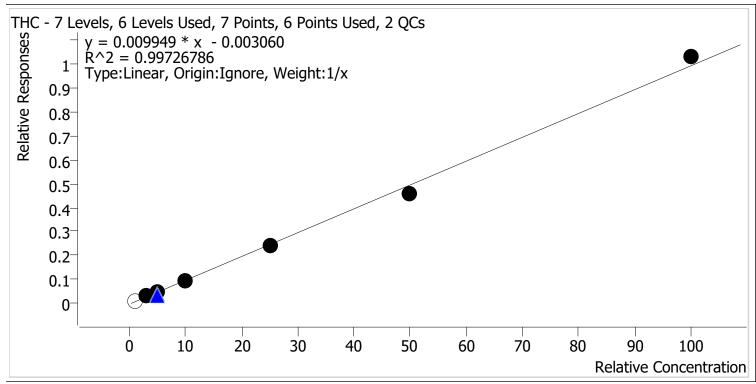


Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin

Last Cal. Update 10/20/2023 10:03 AM

Analyst Name ISP\Datastor

Analyte THC Internal Standard THC-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	х	1.0	1.4	138.7
Cal 2 MJ	2	V	3.0	3.2	107.6
Cal 3 MJ	3	~	5.0	5.0	99.1
Cal 4 MJ	4	V	10.0	9.8	97.6
Cal 5 MJ	5	V	25.0	24.6	98.5
Cal 6 MJ	6	~	50.0	46.7	93.4
Cal 7 MJ	7	~	100.0	103.7	103.7

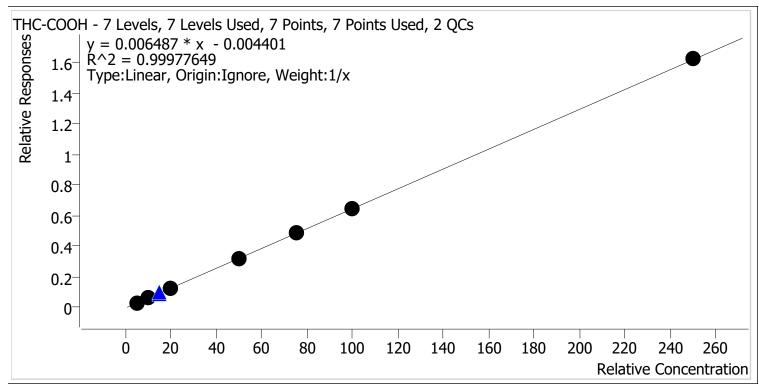


Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin

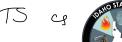
Last Cal. Update 10/20/2023 10:03 AM

Analyst Name ISP\Datastor

Analyte THC-COOH Internal Standard THC-COOH-D9



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	~	5.0	5.1	102.7
Cal 2 MJ	2	V	10.0	10.1	101.1
Cal 3 MJ	3	V	20.0	19.4	97.2
Cal 4 MJ	4	~	50.0	48.8	97.6
Cal 5 MJ	5	V	75.0	76.4	101.9
Cal 6 MJ	6	~	100.0	99.2	99.2
Cal 7 MJ	7	V	250.0	250.9	100.4



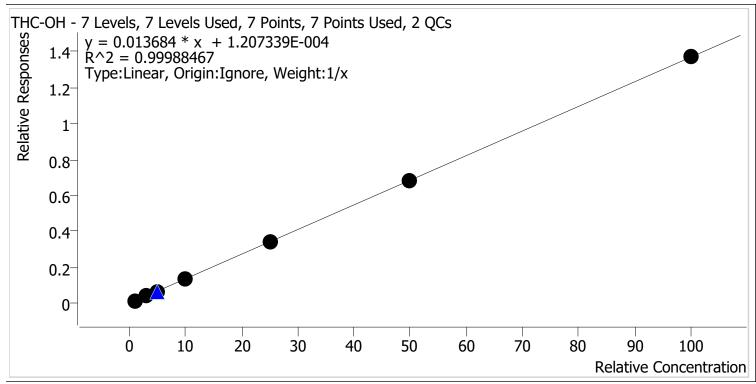
AM #27 Cannabinoids Quant. Calibration Curve Report

D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin **Batch results**

Last Cal. Update 10/20/2023 10:03 AM

Analyst Name ISP\Datastor

THC-OH **Analyte Internal Standard** THC-OH-D3



Sample	Level	Enabled	Expected Concentration	Final Concentration	Accuracy
Cal 1 MJ	1	V	1.0	1.0	102.5
Cal 2 MJ	2	V	3.0	3.1	101.7
Cal 3 MJ	3	~	5.0	4.8	95.3
Cal 4 MJ	4	V	10.0	10.0	99.5
Cal 5 MJ	5	V	25.0	25.3	101.4
Cal 6 MJ	6	~	50.0	49.8	99.5
Cal 7 MJ	7	~	100.0	100.1	100.1

D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin **Batch results Calibration Last Update** 10/20/2023 10:03:02 AM

Instrument **Type** Acq. Method Falco (069901) Cal

Sample Position P1-H6

Injection Volume 10

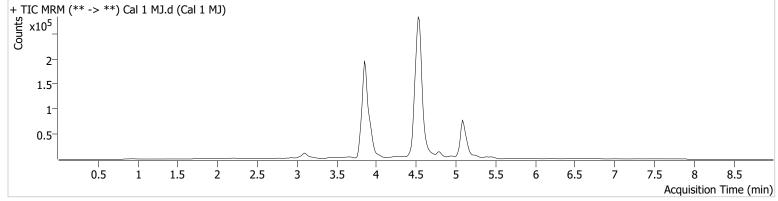
Acq. Date-Time Sample Info.

AM 27 Agilent Method.m

10/18/2023 3:58:27 PM

Data File Cal 1 MJ.d Sample Cal 1 MJ Operator Celena Shrum Comment

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	3358	25.60	56.0 High	∞	312854	1.3865 ng/ml
THC-COOH	3.939	4886	129.63	252.6	∞	168986	5.1353 ng/ml
THC-OH	3.865	12740	∞	12.5	15.34	900971	1.0246 ng/ml

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AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type Acq. Method Falco (069901) Cal

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Acq. Method
Sample Position
Injection Volume

AM 27 Agilent Method.m P1-G6

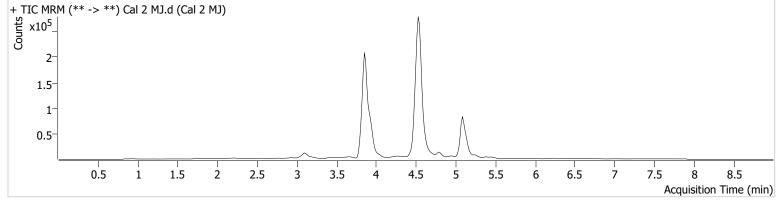
P1-G

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Acq. Date-Time Sample Info.

Data FileCal 2 MJ.dSampleCal 2 MJOperatorCelena ShrumCommentOnly drugs and

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	9393	∞	31.4	24.66	323107	3.2294 ng/ml
THC-COOH	3.939	10473	191.90	241.1	193.95	171118	10.1136 ng/ml
THC-OH	3.865	37843	∞	14.3	œ	903533	3.0520 ng/ml

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AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type Acq. Method Falco (069901) Cal

AM 27 Agilent Method.m P1-F6

Sample Position
Injection Volume

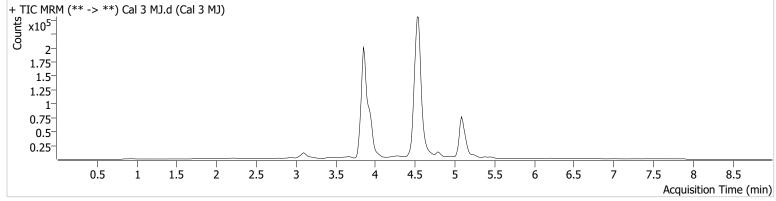
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Acq. Date-Time Sample Info.

Data File Sample Operator Comment

Cal 3 MJ.d Cal 3 MJ Celena Shrum

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	14484	∞	27.7	∞	313087	4.9572 ng/ml
THC-COOH	3.939	20074	∞	244.1	1055.45	165022	19.4311 ng/ml
THC-OH	3.865	55 4 97	∞	14.5	118.62	849974	4.7627 ng/ml

D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin **Batch results Calibration Last Update** 10/20/2023 10:03:02 AM

Instrument **Type** Acq. Method Falco (069901) Cal

AM 27 Agilent Method.m

Sample Position Injection Volume 10

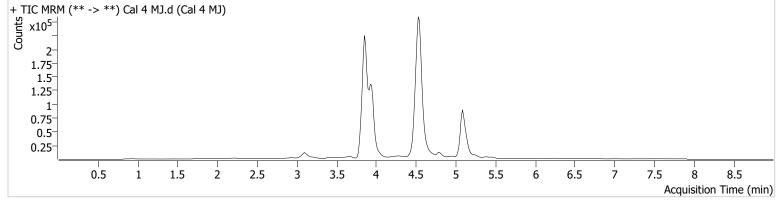
Acq. Date-Time Sample Info.

P1-E6

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Data File Sample Operator Comment Cal 4 MJ.d Cal 4 MJ Celena Shrum

> 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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	30119	∞	28.4	∞	320337	9.7579 ng/ml
THC-COOH	3.939	52489	2009.52	244.7	∞	168213	48.7819 ng/ml
THC-OH	3.865	120692	∞	15.2	∞	885247	9.9545 ng/ml

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AM #27 Cannabinoids Quant. Results

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type Acq. Method Falco (069901) Cal

AM 27 Agilent Method.m P1-D6

Sample Position Injection Volume Acq. Date-Time

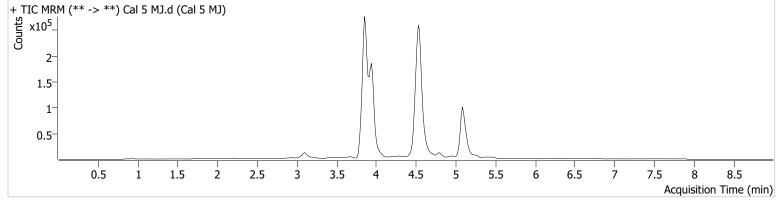
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Sample Info.

Data FileCalSampleCalOperatorCelCommentOnl

Cal 5 MJ.d Cal 5 MJ Celena Shrum

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	76134	508.89	26.3	39.17	314625	24.6293 ng/ml
THC-COOH	3.939	83443	∞	242.1	2175.72	169894	76.3922 ng/ml
THC-OH	3.865	314485	∞	14.5	869.33	906343	25.3482 ng/ml

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type Acq. Method

Injection Volume

Falco (069901) Cal

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Acq. Method AM 27 Agilent Method.m Sample Position P1-C6

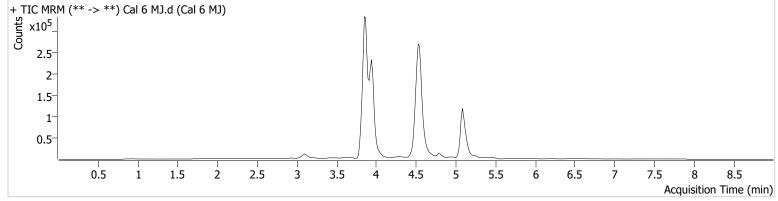
P1-C 10

10/18/2023 5:04:12 PM

Acq. Date-Time Sample Info.

Data FileCal 6 MJ.dSampleCal 6 MJOperatorCelena ShrumCommentOnly drugs and

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	139050	∞	26.5	∞	301336	46.6874 ng/ml
THC-COOH	3.939	101200	2477.49	247.4	1868.43	158335	99.2079 ng/ml
THC-OH	3.865	589195	∞	14.5	529.84	865136	49.7610 ng/ml

Batch results D:\MassHunter\Data\2023\AM 27 28\101823 AM 27 28 CS TS\QuantResults\AM 27.batch.bin 10/20/2023 10:03:02 AM

Instrument Type

Falco (069901)

Cal

Acq. Method AM 27 Agilent Method.m

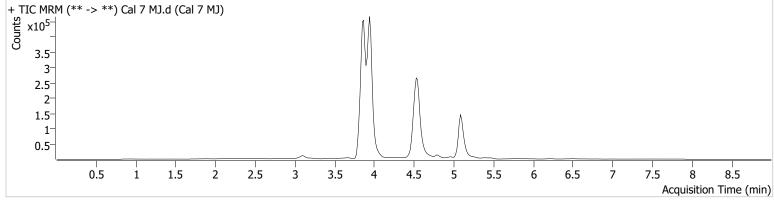
Sample Position Injection Volume Acq. Date-Time P1-B6 10

Sample Info.

10/18/2023 5:17:18 PM

Data File Sample Operator Comment Cal 7 MJ.d Cal 7 MJ Celena Shrum

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.



Name	RT	Resp.	S/N	Ratio	S/N	ISTD Resp.	Final Conc.
THC	5.090	265815	∞	24.8	∞	258307	103.7388 ng/ml
THC-COOH	3.939	248874	5 44 2.22	240.6	9041.00	153303	250.9380 ng/ml
THC-OH	3.865	1137037	∞	14.7	∞	830054	100.0970 ng/ml