

TBI-FORENSIC SERVICES DIVISION PERFORMANCE VERIFICATION FORM

Instrument/Method to Verify:

LC/MS "Dolly" (Agilent 1260 Infinity Lab LC/MSD Single Quadrupole) - 1% THC Screen Method

Check the appropriate box: New Validation ☐ Modification ☐ Performance Check ☒

Laboratory: NCL ☐ KCL ☐ JCL ☒ Unit: Forensic Chemistry

Based on training and competency, the following analyst(s) are authorized by the Technical Leader to participate in this study:

Name Carter L. DeRen Title SA/FS3 Initials CLD

Completed:

Name _____ Title _____ Initials _____

Completed:

Name _____ Title _____ Initials _____

Completed:

Verification of final review:

Unit Supervisor: Rachel Strandquist

Section Manager: Mark Dunlap
Mark Dunlap (Sep 20, 2025 12:02:44 CDT)

Unit Supervisor:

Section Manager:

Unit Supervisor:

Section Manager:

Regional Administrator: Donna C. Nelson
Donna Nelson (Sep 3, 2025 12:01:31 CDT)

IT Manager: Matthew Buck

Regional Administrator:

Regional Administrator:

Quality Assurance Manager: Shad Johnson

By signing below, I have verified this study meets all requirements and I deem this procedure/instrument fit for the intended use:

Technical Leader: Brett Trotter

All information must be submitted to the Quality Assurance Manager prior to the implementation of the procedure/instrument. If applicable, include training plan and competency testing schedule.



Forensic Chemistry Performance Verification

1% THC Screen

**Liquid Chromatograph/Mass Spectrometer
(Agilent 1260 Infinity Lab LC/MSD Single Quadrupole)
TBI FCU ID – Dolly**

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WD

Forensic Chemistry Performance Verification – 1% THC Screen

Liquid Chromatograph/Mass Spectrometer
(Agilent 1260 Infinity Lab LC/MSD Single Quadrupole)
TBI FCU ID – Dolly

1. Purpose:

The purpose of this performance check is to document the performance and accuracy of the Liquid Chromatograph/Mass Spectrometer (LC/MS) instrument for the 1% THC screen through the analysis of various standards and samples. The LC/MS must also successfully separate Δ^9 -Tetrahydrocannabinol (Δ^9 -THC) and Tetrahydrocannabinolic acid (THC-A), which thermally degrades to Δ^9 -THC.



Forensic Chemistry Performance Verification – 1% THC Screen

Liquid Chromatograph/Mass Spectrometer
(Agilent 1260 Infinity Lab LC/MSD Single Quadrupole)
TBI FCU ID – Dolly

2. Components and Methods Currently in Use:

Instrument Components

Liquid Chromatograph

Vial Sampler (Infinity II)

Product Number: G7129A

Serial Number: DEAEQ69711

Binary Pump (Infinity II)

Product Number: G7112B

Serial Number: DEAE902034

Single Quadrupole Mass Spectrometer (LC/MSD iQ)

Product Number: G6160A

Serial Number: SG2404R002

Software Version

OpenLab CDS v. 2.6

LC/MS Method

Cannabis Method Raptor

Mobile Phase A: 0.1% Formic Acid in high purity water

Mobile Phase B: 0.1% Formic Acid in Acetonitrile

Column: Raptor Fluorophenyl 2.7µm, 100 x 3.0mm

Binary Pump:

Pressure Limits – min 0.00 bar / max 600.00 bar

Gas Flow – 13.0 L/min

Nebulizer – 45.0 psi

Gas Temperature - 325°C

Oven Temperature – 45.0°C

Injection Volume – 3.00 µL

Time (min)	Mobile A (%)	Mobile B (%)	Flow Rate (mL/min)
0.00	51.0	49.0	0.900
9.50	51.0	49.0	-
10.00	0.0	100.0	-
11.00	0.0	100.0	-
11.10	51.0	49.0	-
12.00	51.0	49.0	-

Forensic Chemistry Performance Verification – 1% THC Screen

Liquid Chromatograph/Mass Spectrometer
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TBI FCU ID – Dolly

3. Procedure:

A series of samples will be run over multiple days to evaluate the instrument's ability to detect and separate different cannabinoids, specifically Δ 9-THC and THC-A, and the repeatability of the detection and separation. This is important for determining whether the Δ 9-THC concentration exceeds 1% in comparison to a known standard through the THC Screening procedure. The method must also be able to detect and separate Cannabidiol (CBD), Δ 8-Tetrahydrocannabinol (Δ 8-THC), and Δ 10-Tetrahydrocannabinol (Δ 10-THC).

The standard and samples will be prepared according to the Gas Chromatograph/Mass Spectrometer (GC/MS) THC screening procedure and then diluted using 26 μ L of the respective standard/sample in 2mL of LC/MS grade Acetonitrile (ACN). Samples will be run over the course of multiple days to show repeatability of results. A weekly autotune or checktune will be performed prior to any samples being run. All samples will be run on the "Cannabis Method Raptor" method and the data collected will include the retention time, mass spectrum, and area for each peak. The peak area will then be used in comparison to a known 1% Δ 9-THC standard in order to calculate the amount of Δ 9-THC within the sample (greater or lesser than 1%).

Liquid Chromatograph/Mass Spectrometer
(Agilent 1260 Infinity Lab LC/MSD Single Quadrupole)
TBI FCU ID – Dolly

4. Standards, Samples, Solvents, and Reagents Used:

Standard/Sample Source & Lot Number	Solvent	Expiration Date
Δ9-THC Acid (THC-A) Cerilliant FE03162224	Acetonitrile	10/2026
Δ8-THC Cerilliant FE02172272	Methanol	4/2027
Δ9-THC Cerilliant FE06212201	Methanol	10/2027
Δ10-THC Cerilliant FN03052401	Methanol	6/2027
Cannabidiol (CBD) Cerilliant FE10112209	Methanol	8/2028
Cannabinoid Mix (working standards listed above)	Methanol	8/11/26
“Hemp” Training Sample 22 (less than 1%)	n/a	n/a
Marijuana 1 Training sample 6 (greater than 1%)	n/a	n/a
Marijuana 2 FCDEPEW 24-5031 item1	n/a	n/a
Marijuana 3 FCDEPEW 24-5031 item2	n/a	n/a

Solvent/Reagent	Lot Number/Bottle Number	Exp Date
Acetonitrile	64316 / 2 of 3	Until consumed
Formic Acid	241217	2/2027
Tribenzylamine internal standard	-	4/22/26
Methanol	24K2761006 / 2 of 4	11/24/25
Deionized water	n/a	Until consumed

Forensic Chemistry Performance Verification – 1% THC Screen

Liquid Chromatograph/Mass Spectrometer
(Agilent 1260 Infinity Lab LC/MSD Single Quadrupole)
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5. Training and Competency

Special Agent/Forensic Scientist (SA/FS) Andrea King and the unit Technical Leader, Brett Trotter, from the Nashville laboratory provided training to all Jackson scientists on the LC/MS operation, maintenance, and data analysis software. All scientists performed competency tests on the extraction procedure, operation, and data analysis using the LC/MS.

SA/FS DePew will familiarize the other scientists in the Jackson laboratory with the new report for the 1% THC screen using the LC/MS prior to any of them using this methodology in casework. Since all scientists have proved competency in the 1% THC screen extraction procedure and operation of the LC/MS instrument, no additional competency tests are required.

6. Results and Conclusions

The LC/MS demonstrated satisfactory performance overall based on the analysis of multiple standards and samples. The “Cannabis Method Raptor” method was able to successfully separate Δ 9-THC, Δ 8-THC, Δ 10-THC, THC-A, and CBD. It also provided expected calculations for the 1% THC screen.

The sample identified as “Marijuana 1” was calculated to be greater than 1% on the GC/MS, however the LC/MS analysis showed this sample to be less than 1%. This discrepancy is due to the greater concentration of THC-A in the sample that was degraded to Δ 9-THC with the high temperature of the GC/MS. This illustrates the differences in the instrumentation – the GC/MS providing the total THC in comparison to the LC/MS providing the true Δ 9-THC in the sample.

It is also important to note that CBD, Δ 8-THC, Δ 9-THC, and Δ 10-THC have almost identical mass spectrum. If these samples are suspected to be present in casework, the respective standards will need to be run in conjunction, and the retention times used to distinguish the peaks.

The LC/MS provided satisfactory performance and is considered suitable for use in casework.

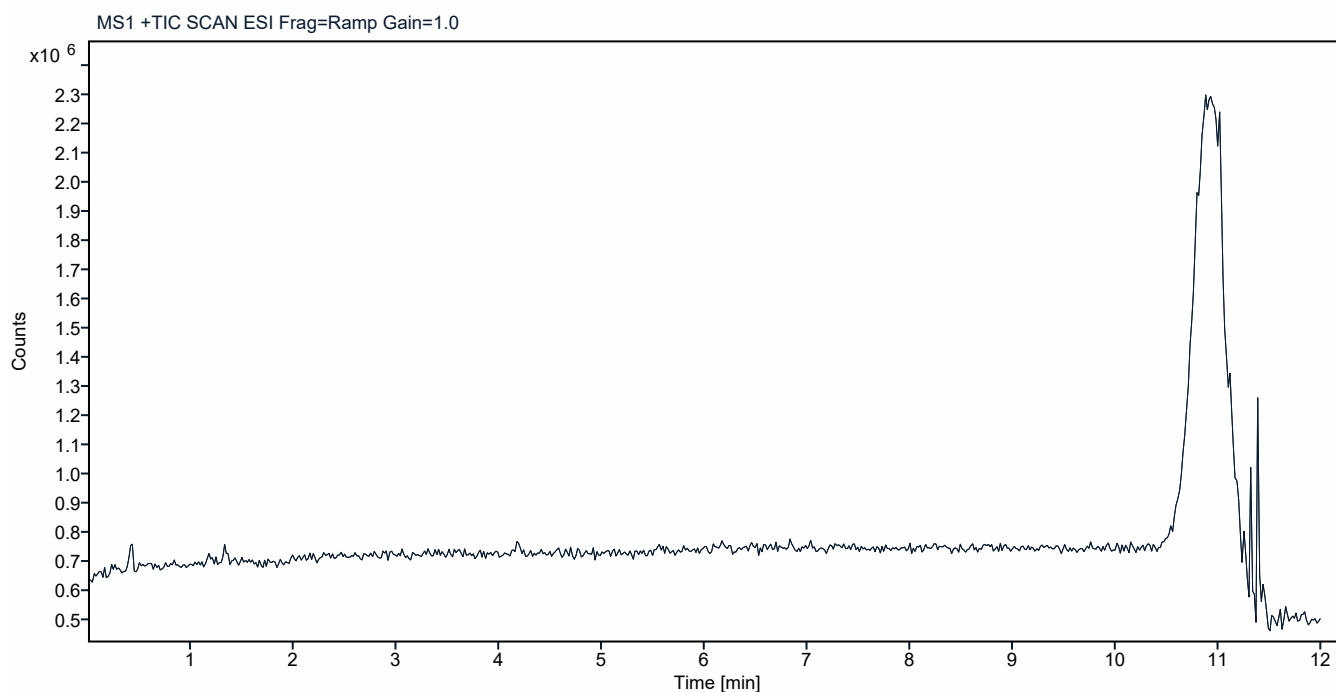
Appendix A

Individual Standards and Cannabinoid Mix Data

Analysis Report

CD

Sample Name	Blank 8-13-25 Cannabinoid Mix MeOH: ACN	Injection Data File Name	Mix Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A2	Injection Acquired Date	2025-08-13 09:24:53-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix Blank.sirsl



Analysis Report

CD

Sample Name Cannabinoid Mix (see logbook for lot #s) MeOH:ACN exp. 8-11-26

Injection Data File Mix.dx
Name

Instrument Dolly
Name

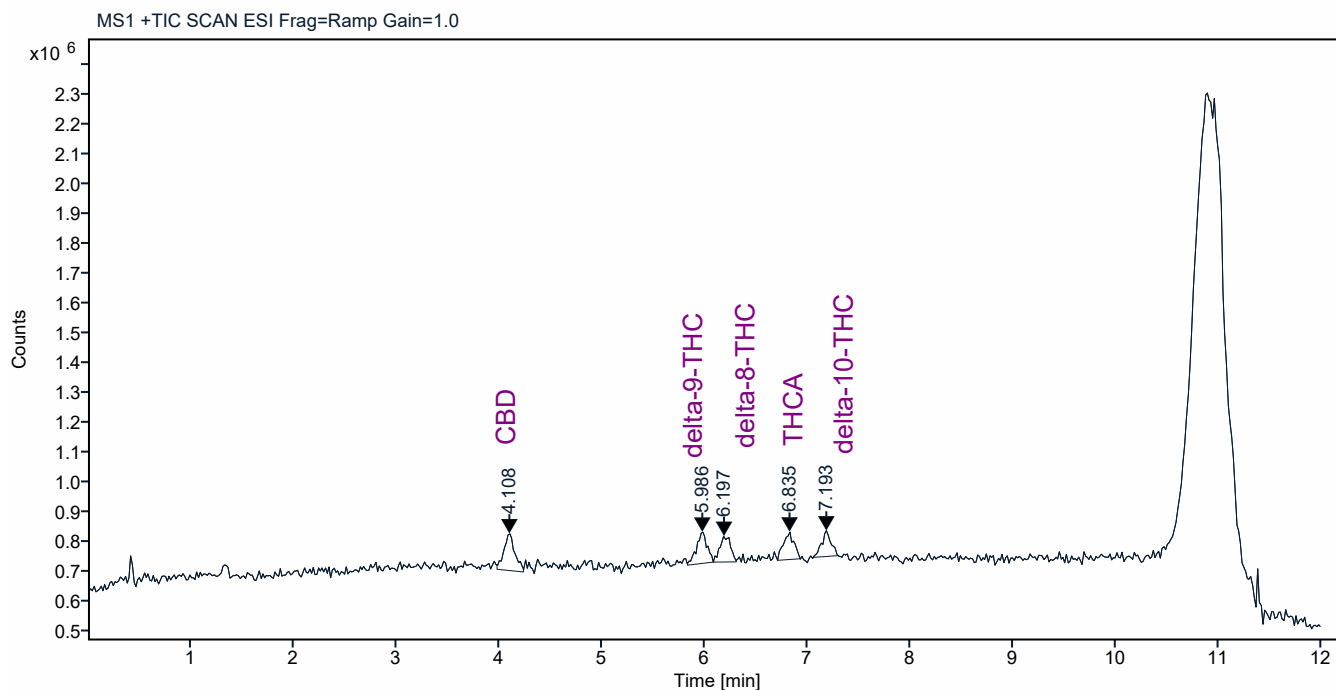
Injection Acq Cannabis Method Raptor.amx
Method Name

Sample Vial P1-A3
Number

Injection Acquired 2025-08-13 09:38:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix.sirslt

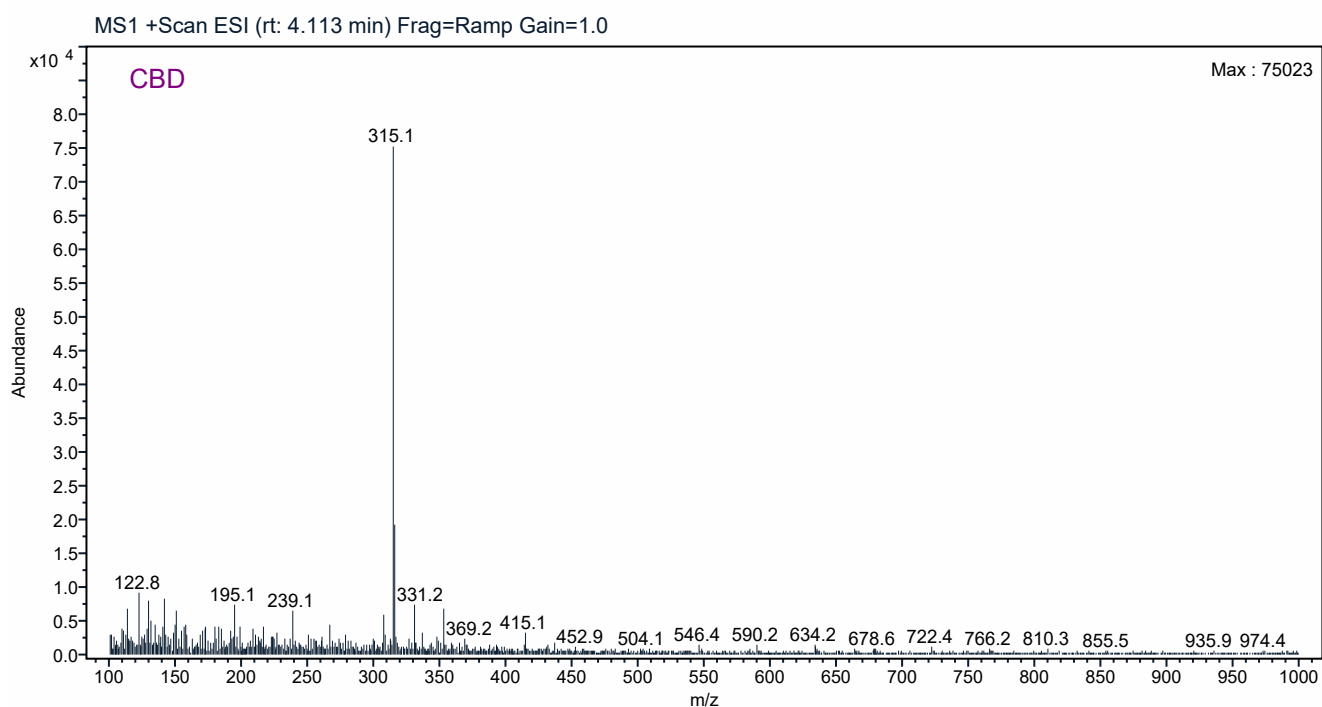


Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

4.108

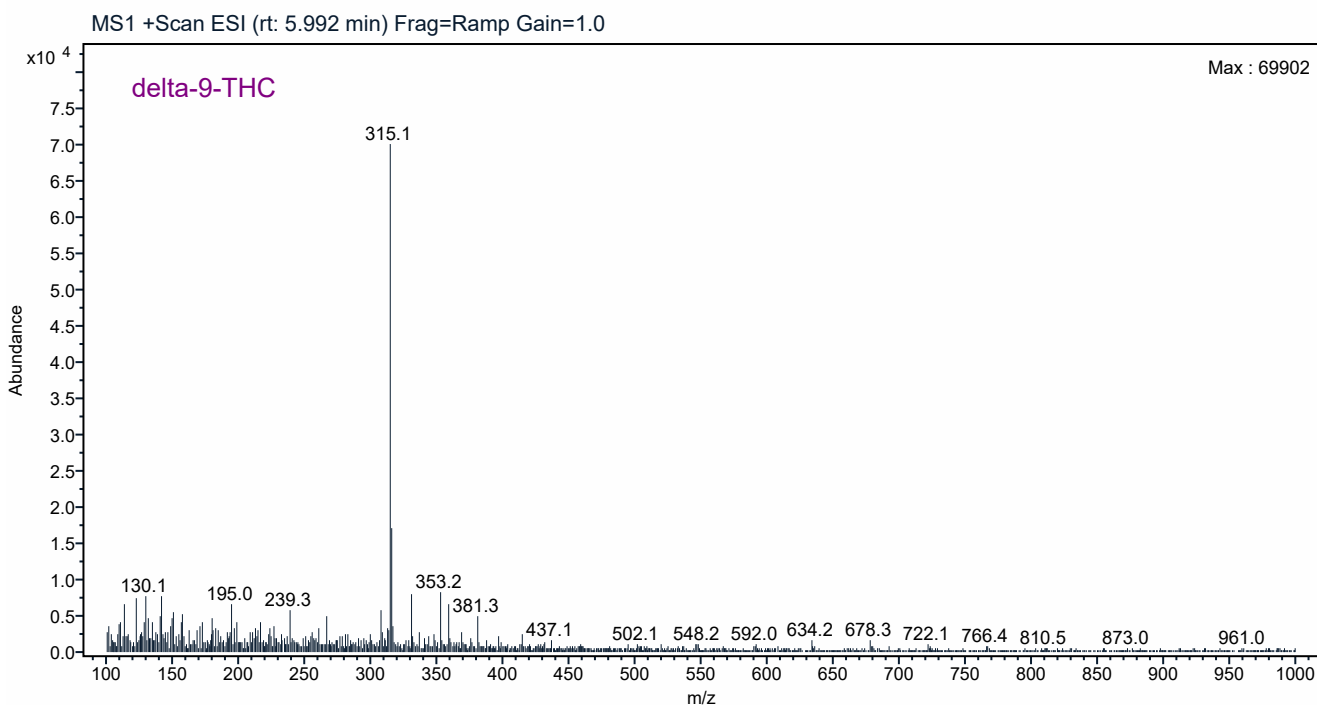


Analysis Report

CD

Sample Name	Cannabinoid Mix (see logbook for lot #s) MeOH:ACN exp. 8-11-26	Injection Data File Name	Mix.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-13 09:38:29-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 5.986



Analysis Report

Sample Name Cannabinoid Mix (see logbook for lot #s) MeOH:ACN exp. 8-11-26

Injection Data File Mix.d\ Name

Instrument Name	Dolly
-----------------	-------

Injection Acq	Cannabis Method Raptor.amx
Method Name	

Sample Vial P1-A3
Number

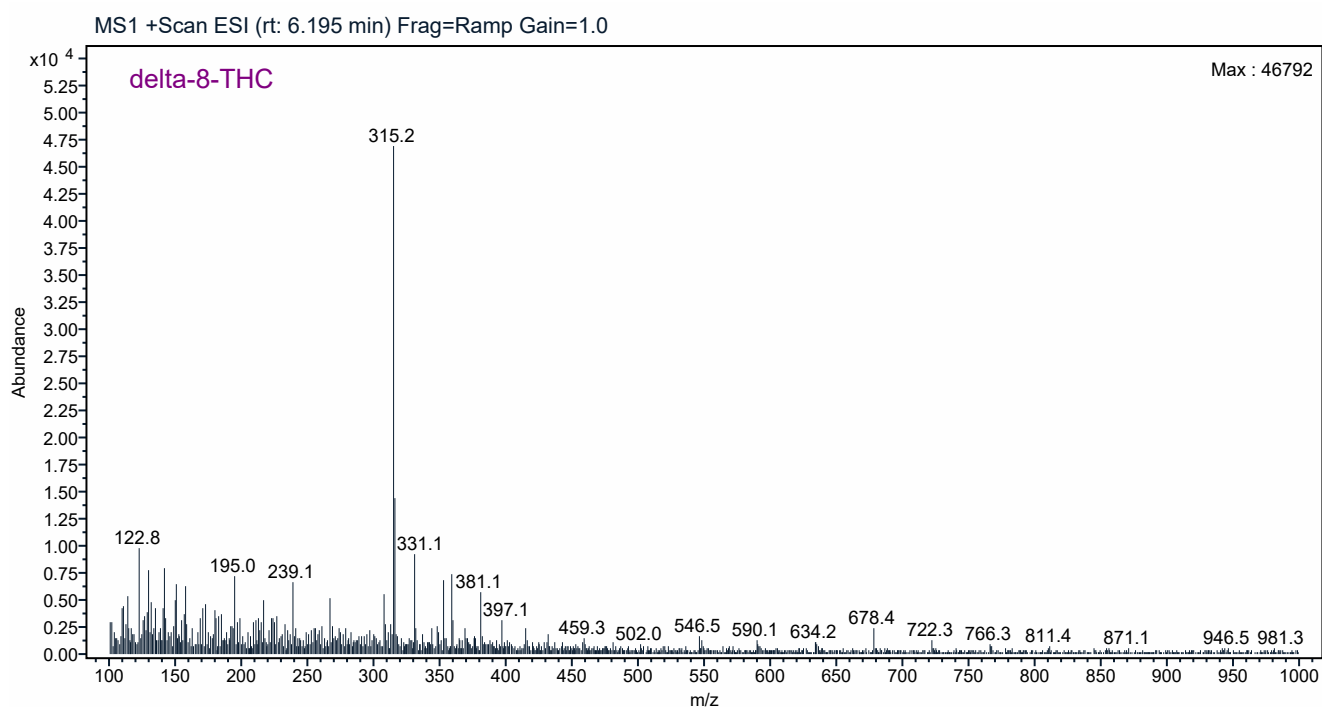
Injection Acquired 2025-08-13 09:38:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix.sirsl

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time 6.197



Analysis Report

CD

Sample Name Cannabinoid Mix (see logbook for lot #s) MeOH:ACN exp. 8-11-26

Injection Data File Mix.dx
Name

Instrument Dolly
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Sample Vial P1-A3
Number

Injection Acquired 2025-08-13 09:38:29-05:00
Date

Injection Volume 3.000

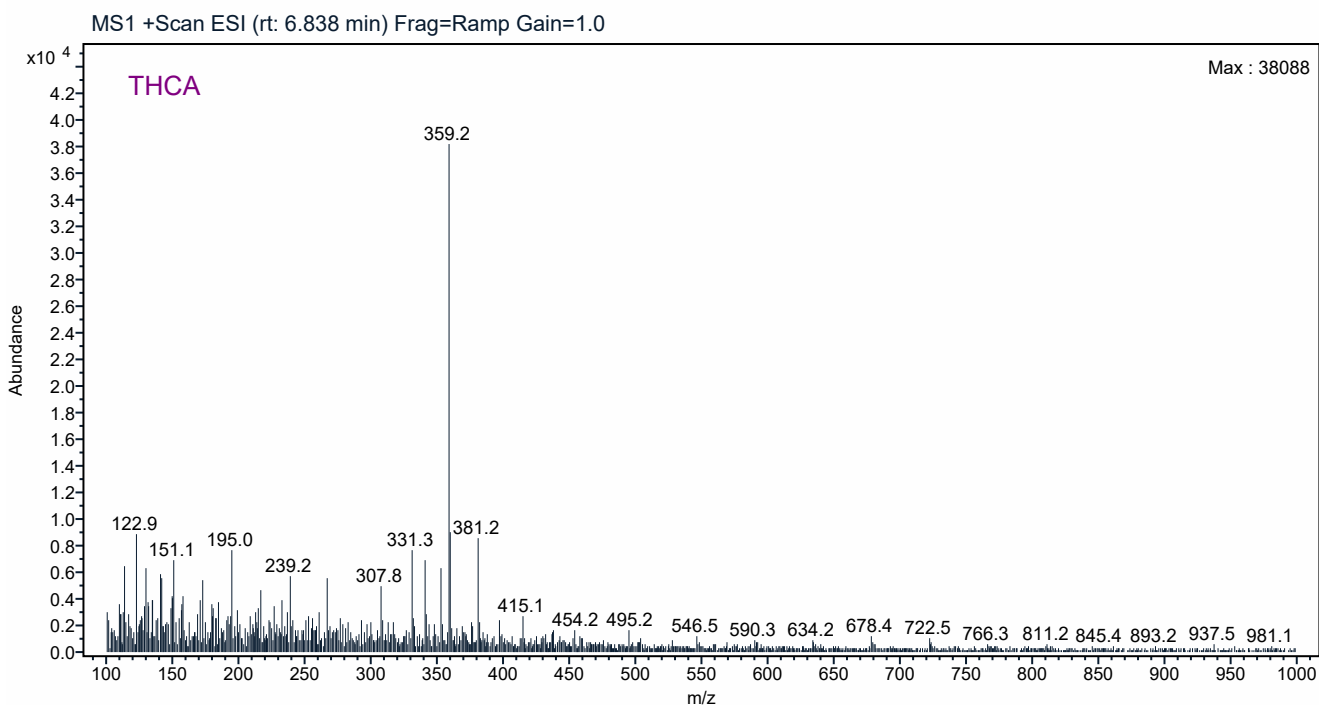
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.835

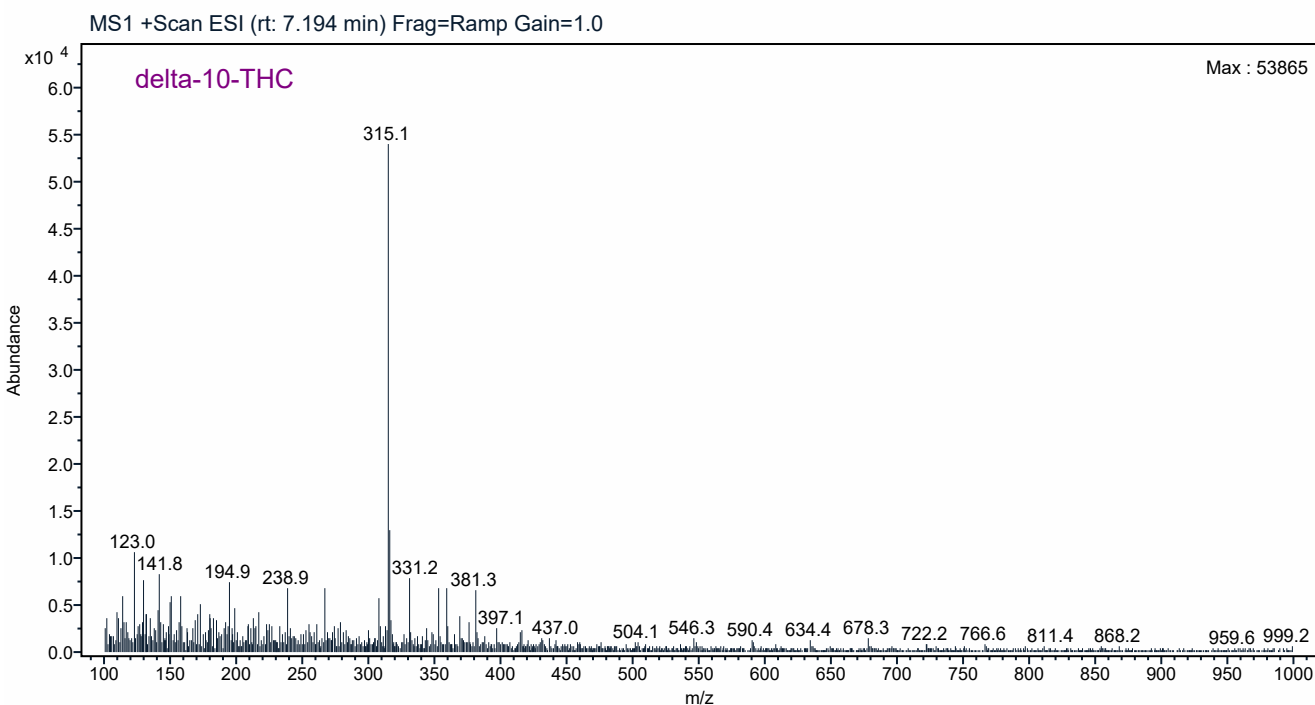


Analysis Report



Sample Name	Cannabinoid Mix (see logbook for lot #s) MeOH:ACN exp. 8-11-26	Injection Data File Name	Mix.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-13 09:38:29-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Mix.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 7.193



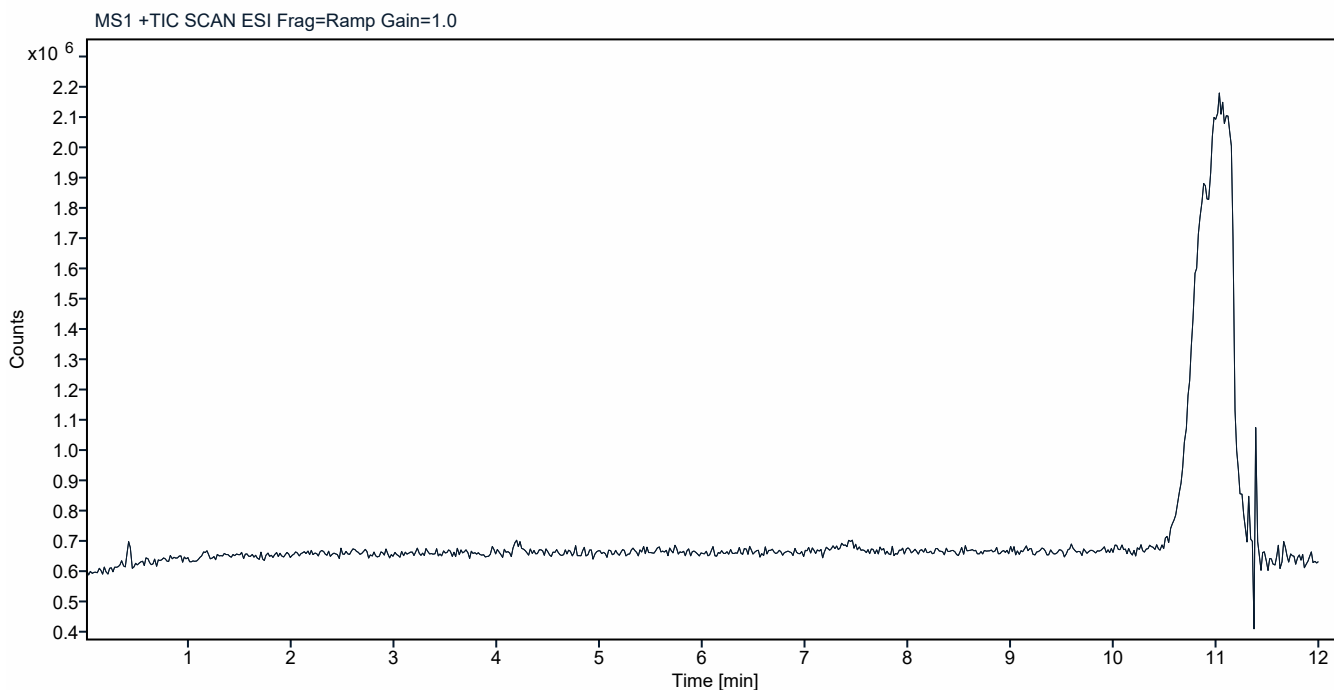
Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
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5.986	0.2513	753220.8724	105679.2642	21.4984
6.197	0.2233	632102.6867	86894.7237	18.0414
6.835	0.2221	655085.0233	93129.6108	18.6974
7.193	0.2429	545958.6251	86649.5056	15.5827

Analysis Report

CD

Sample Name	Blank 8-11-25 Cannabidiol MeOH:ACN	Injection Data File	CBD Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-11 12:49:57-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\CBD Blank.sirsl



Analysis Report

CD

Sample Name Cannabidiol Cerilliant FE10112207
MeOH:ACN exp. 8-2028

Injection Data File CBD.dx
Name

Instrument Dolly
Name

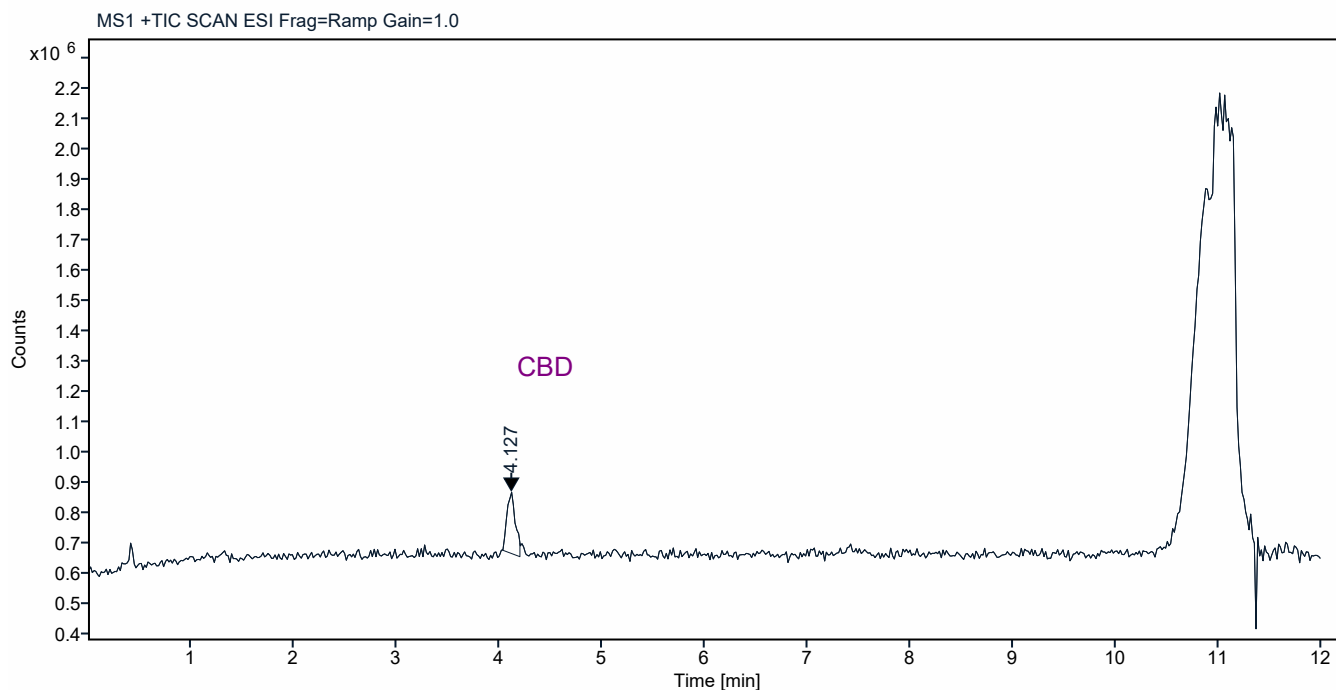
Injection Acq Cannabis Method Raptor.amx
Method Name

Sample Vial P1-A8
Number

Injection Acquired 2025-08-11 13:03:32-05:00
Date

Injection Volume 3.000

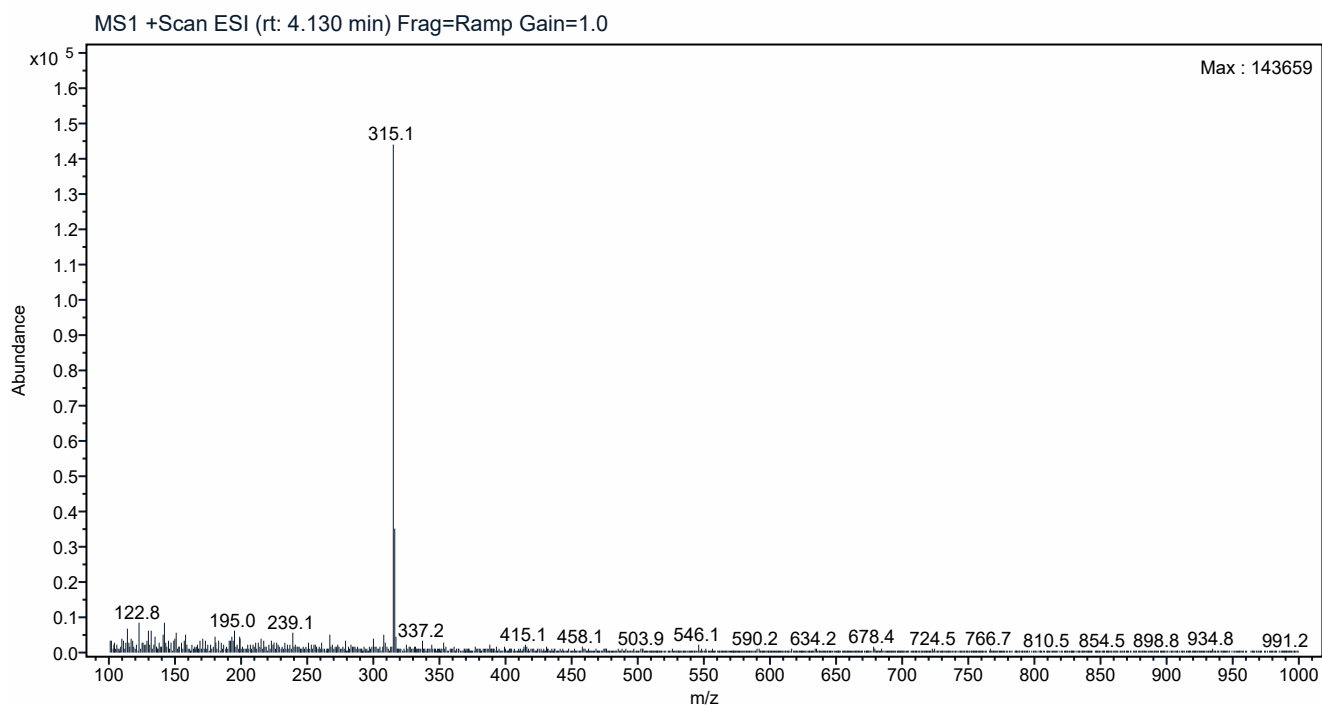
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-11-25\CBD.sirslt

**Signal Name**

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

4.127



Analysis Report



Sample Name Cannabidiol Cerilliant FE10112207
MeOH:ACN exp. 8-2028

Instrument Dolly
Name

Sample Vial P1-A8
Number

Injection Volume 3.000

Injection Data File CBD.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 13:03:32-05:00
Date

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
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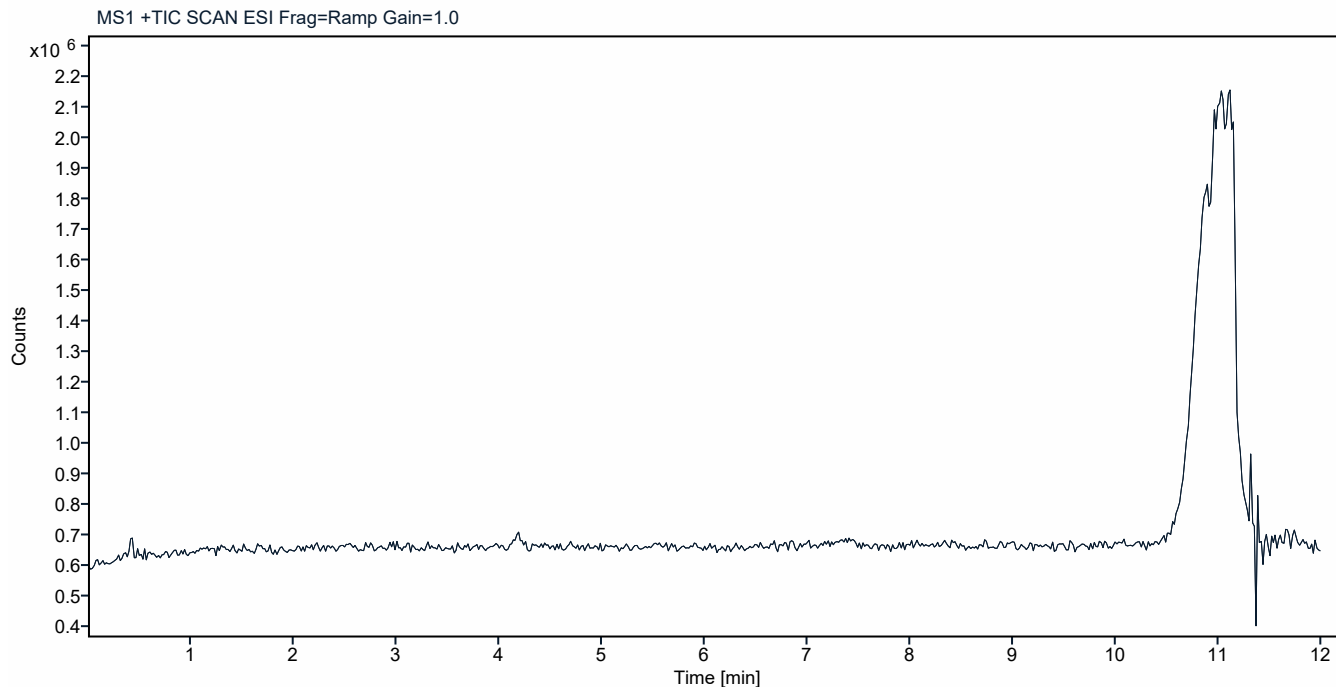
Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
4.127	0.1737	1145328.9696	202722.5661	100.0000

Analysis Report

CD

Sample Name	Blank 8-11-25 delta8THC MeOH:ACN	Injection Data File Name	D8THC Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-11 10:47:34-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\D8THC Blank.sirslt



Analysis Report

CD

Sample Name delta-8-THC Cerilliant FE02172272
MeOH:ACN exp. 4-2027

Instrument Dolly
Name

Sample Vial P1-A5
Number

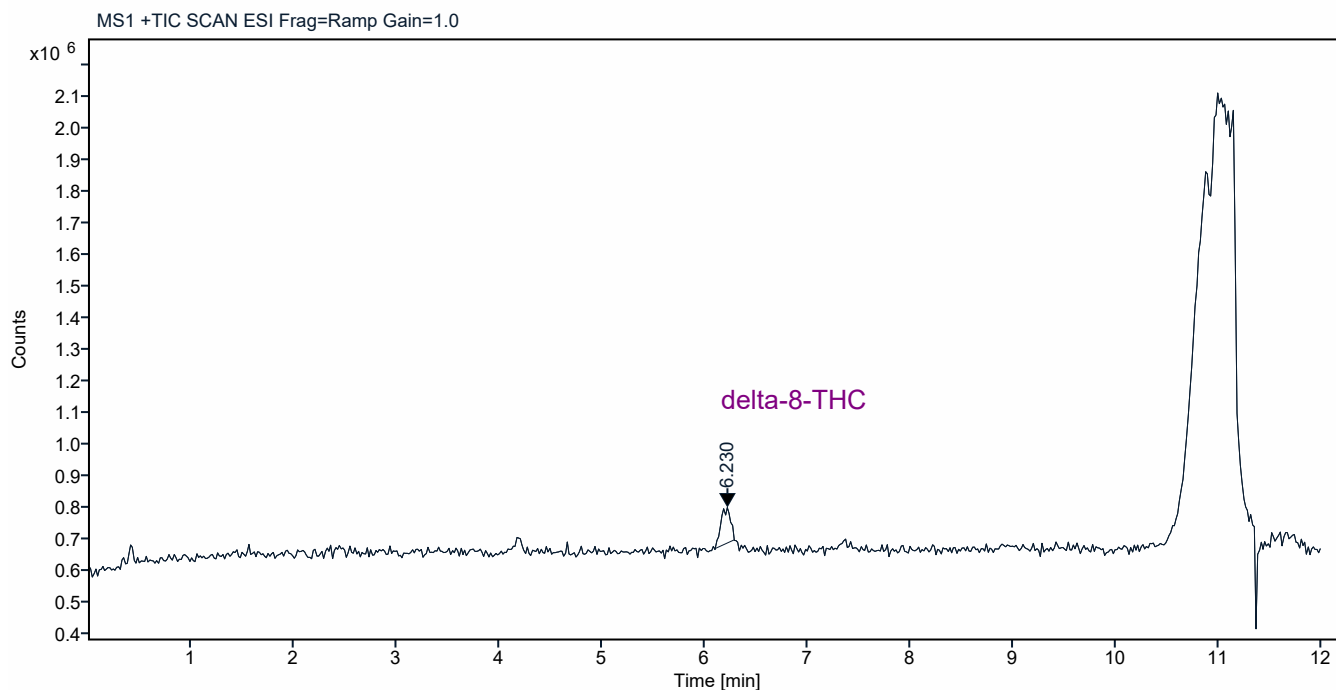
Injection Volume 3.000

Injection Data File D8THC.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 11:01:08-05:00
Date

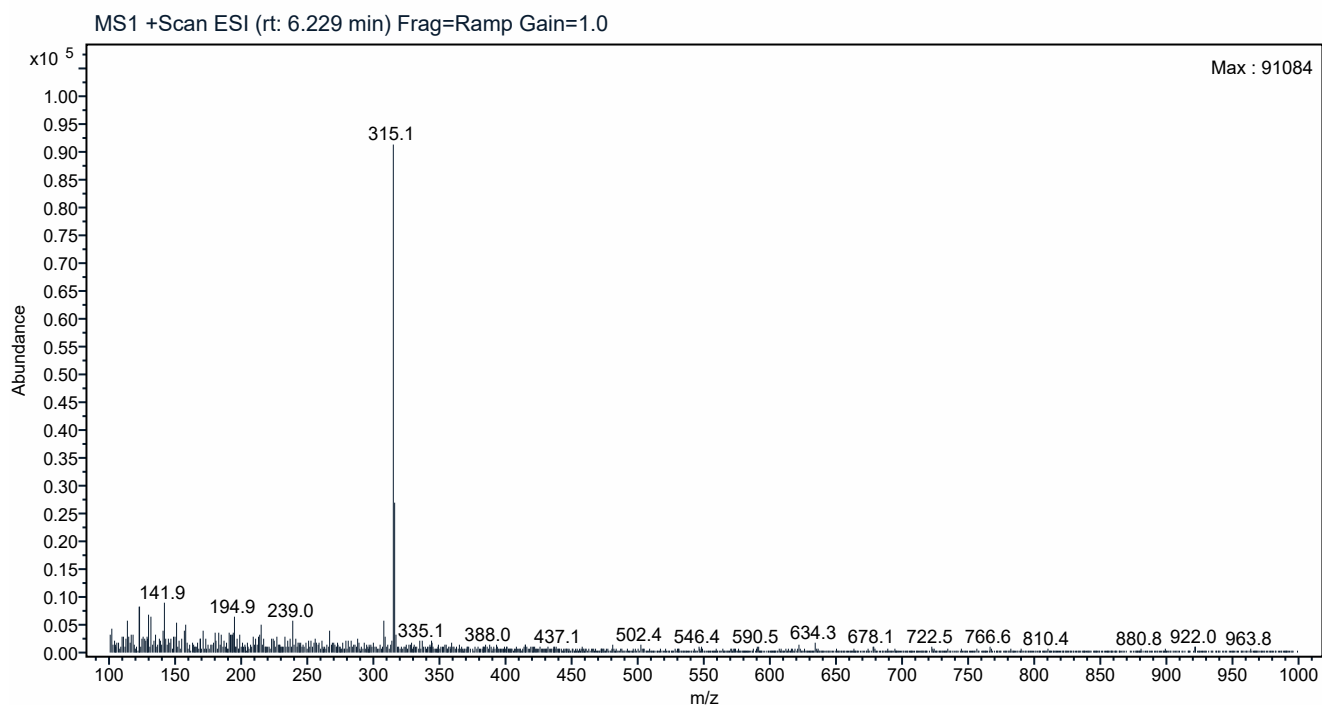
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-11-25\D8THC.sirslt

**Signal Name**

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.230



Analysis Report



Sample Name delta-8-THC Cerilliant FE02172272
MeOH:ACN exp. 4-2027

Instrument Dolly
Name

Sample Vial P1-A5
Number

Injection Volume 3.000

Injection Data File D8THC.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 11:01:08-05:00
Date

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
11-25\D8THC.sirslt

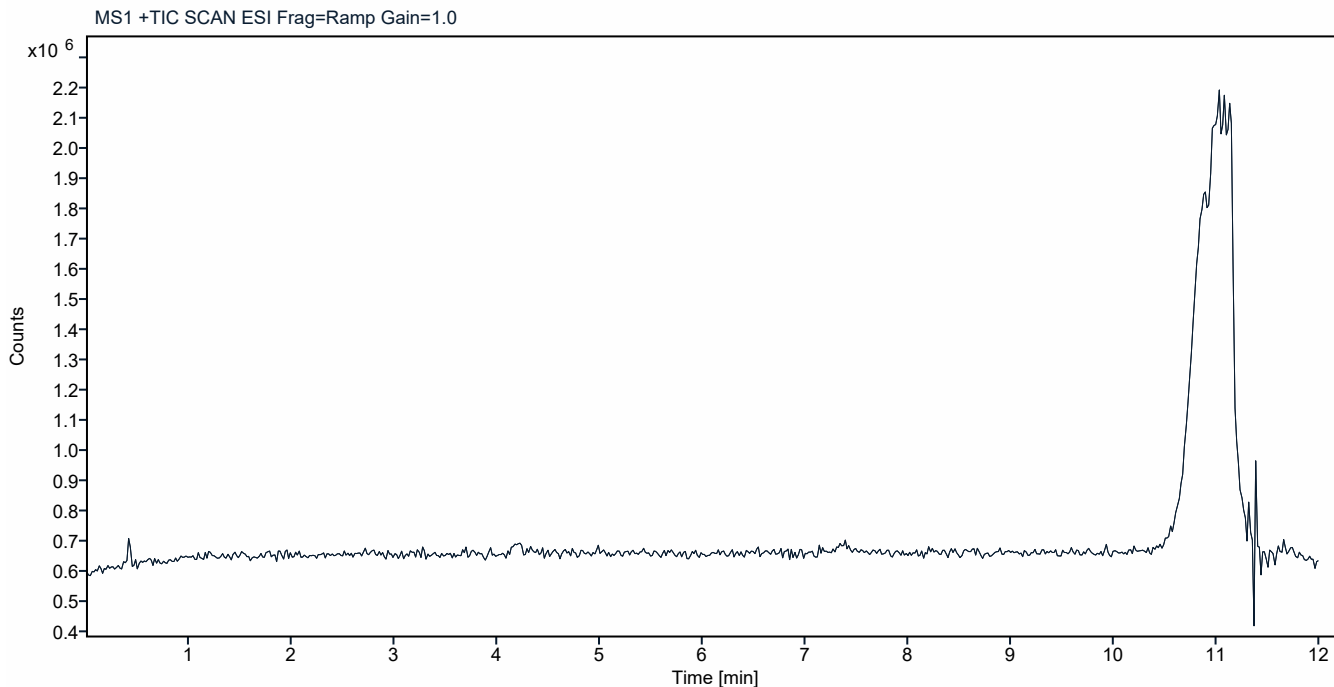
Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
6.230	0.1836	738988.5287	111938.5296	100.0000

Analysis Report

CD

Sample Name	Blank 8-11-25 delta9THC MeOH:ACN	Injection Data File	D9THC Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-11 11:28:21-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\D9THC Blank.sirsl



Analysis Report

CD

Sample Name delta-9-THC Cerilliant FE06212201
MeOH:ACN exp. 10-2027

Instrument Dolly
Name

Sample Vial P1-A6
Number

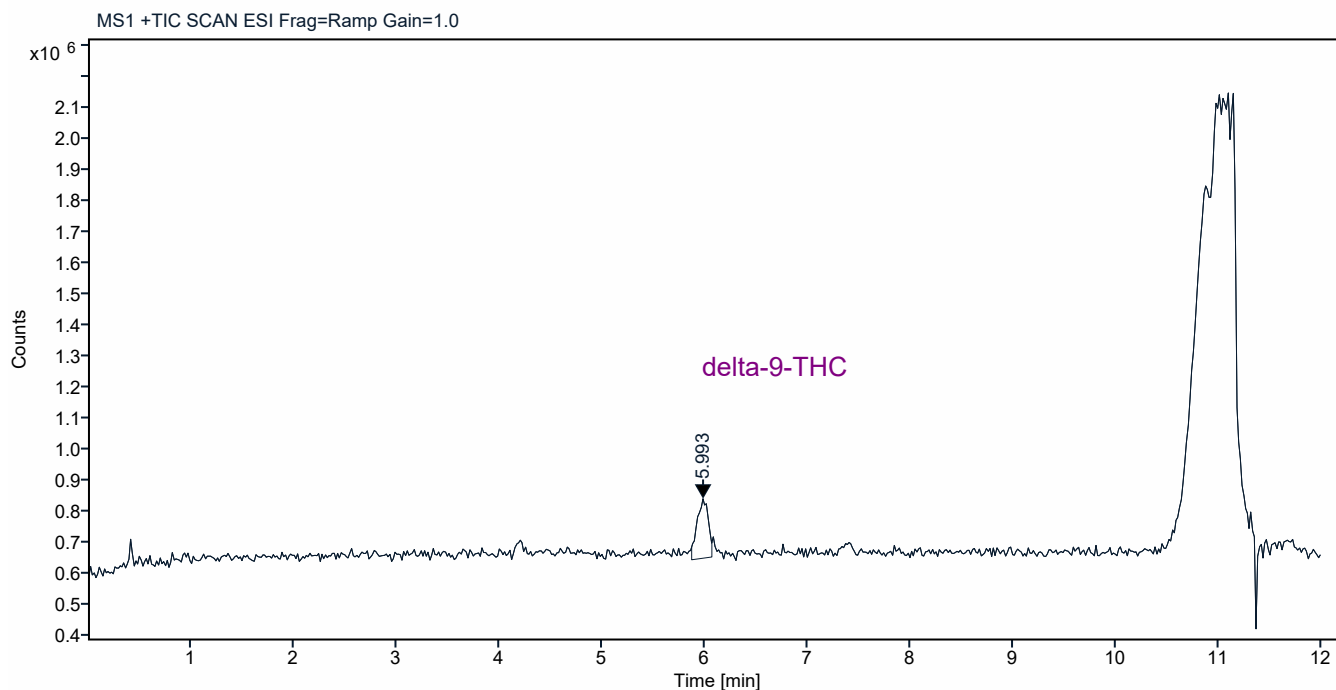
Injection Volume 3.000

Injection Data File D9THC.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 11:41:57-05:00
Date

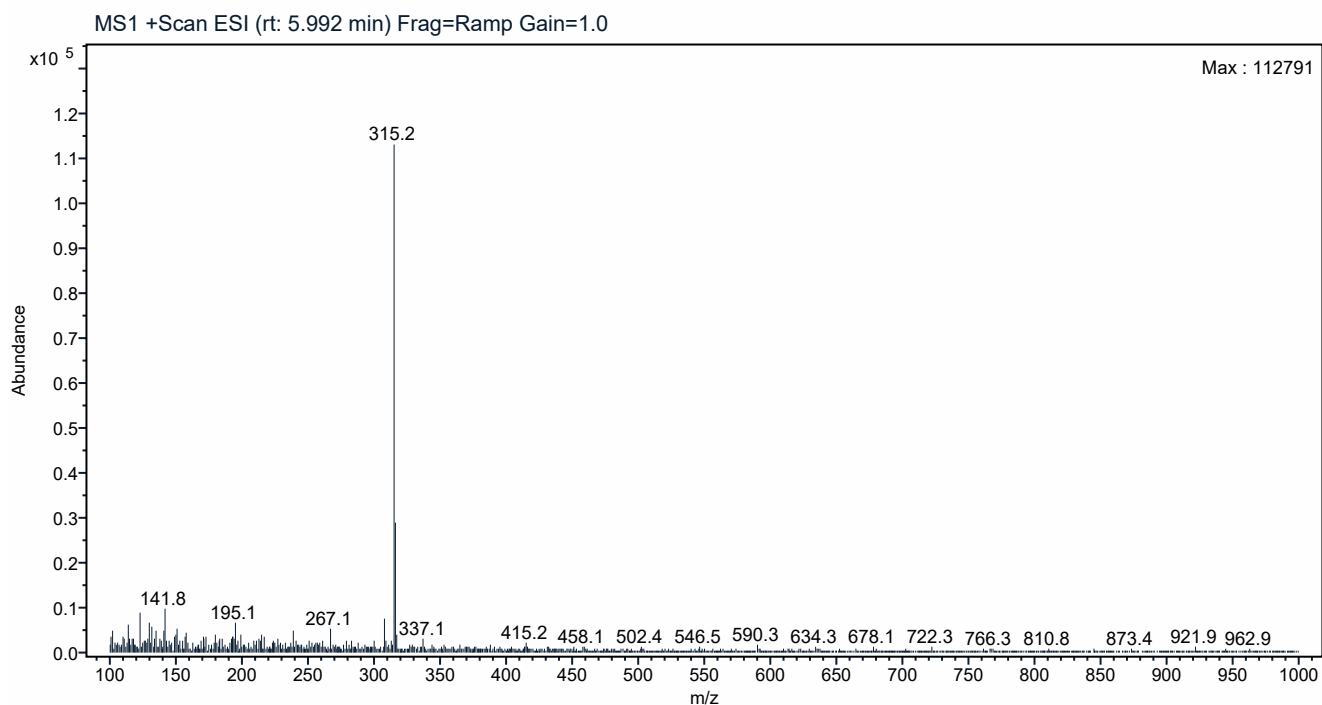
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
11-25\D9THC.sirslt

**Signal Name**

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.993



Analysis Report



Sample Name delta-9-THC Cerilliant FE06212201
MeOH:ACN exp. 10-2027

Instrument Dolly
Name

Sample Vial P1-A6
Number

Injection Volume 3.000

Injection Data File D9THC.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 11:41:57-05:00
Date

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
11-25\D9THC.sirslt

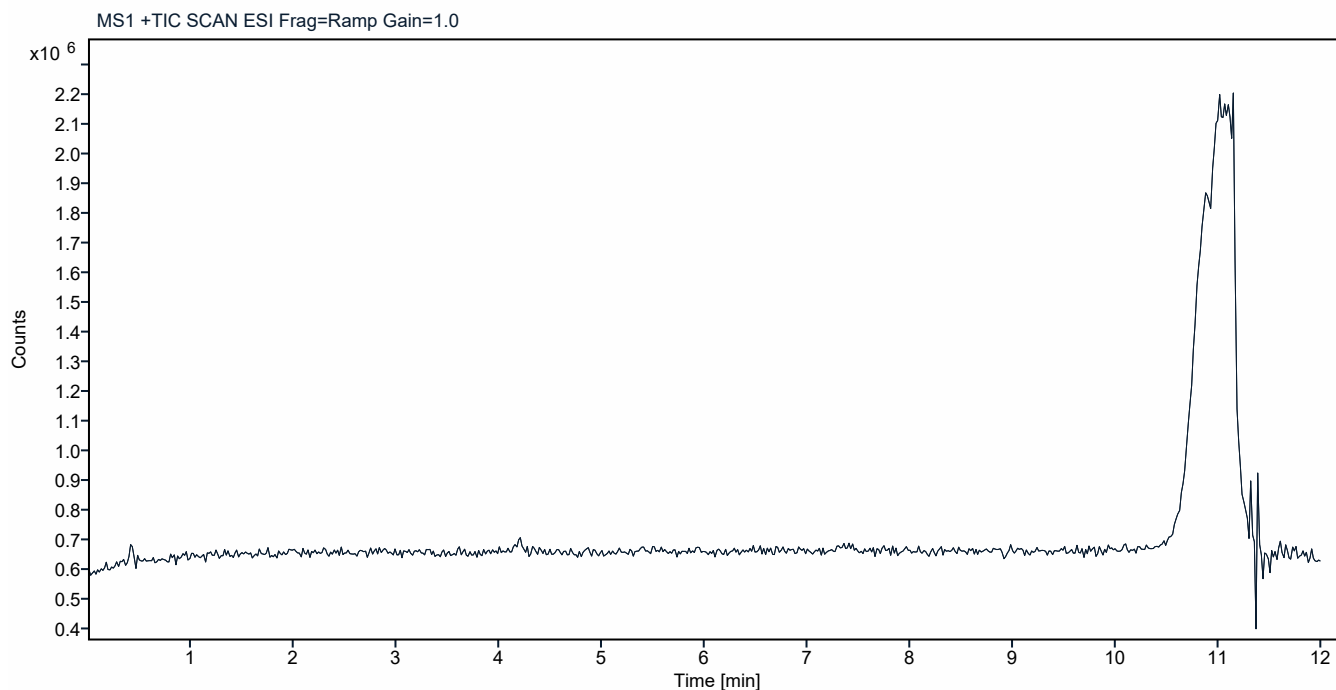
Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
5.993	0.1966	1454557.8173	191417.4613	100.0000

Analysis Report

CD

Sample Name	Blank 8-11-25 delta10THC MeOH:ACN	Injection Data File	D10THC Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-11 12:09:10-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\D10THC Blank.sirsl



Analysis Report

CD

Sample Name delta-10-THC Cerilliant FN03052401
MeOH:ACN exp. 6-2027

Injection Data File D10THC.dx
Name

Instrument Dolly
Name

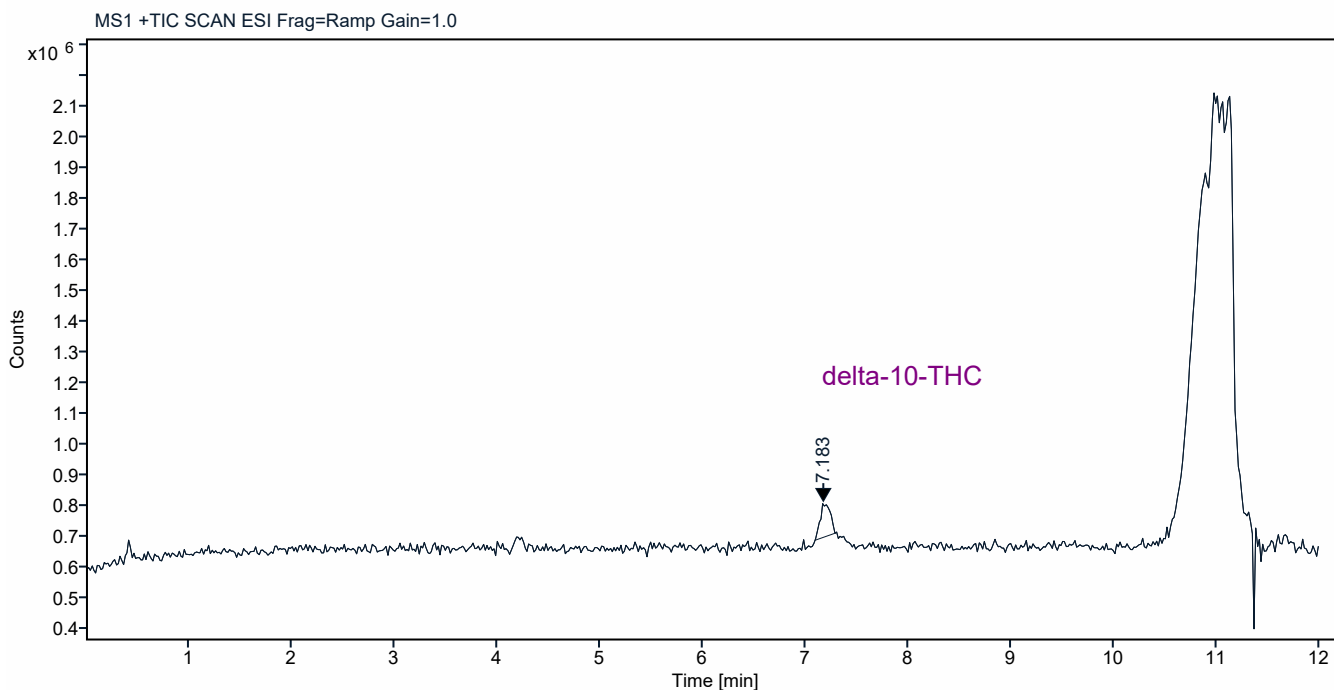
Injection Acq Cannabis Method Raptor.amx
Method Name

Sample Vial P1-A7
Number

Injection Acquired 2025-08-11 12:22:44-05:00
Date

Injection Volume 3.000

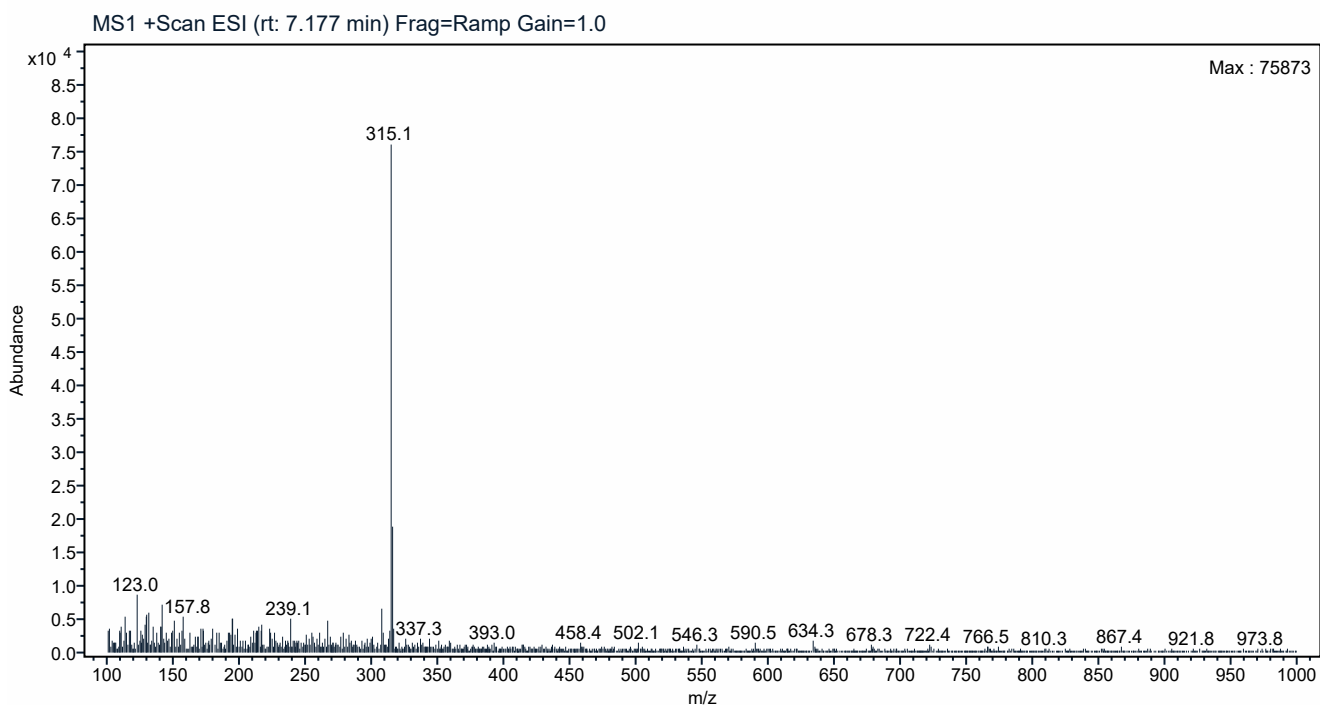
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-11-25\D10THC.sirslt

**Signal Name**

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

7.183



Analysis Report



Sample Name delta-10-THC Cerilliant FN03052401
MeOH:ACN exp. 6-2027

Instrument Dolly
Name

Sample Vial P1-A7
Number

Injection Volume 3.000

Injection Data File D10THC.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-11 12:22:44-05:00
Date

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
11-25\D10THC.sirslt

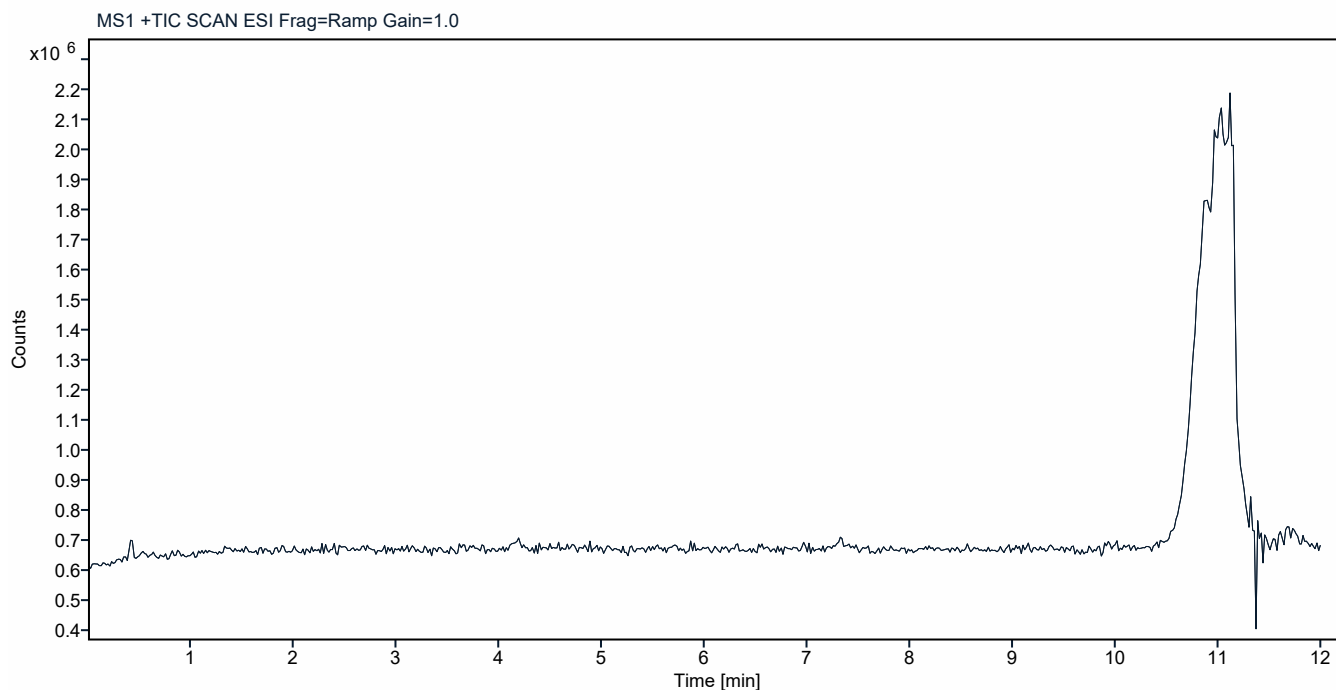
Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
7.183	0.1922	737096.3329	113551.7048	100.0000

Analysis Report

CD

Sample Name	Blank 8-11-25 THCA std MeOH:ACN	Injection Data File	THCA Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A3	Injection Acquired Date	2025-08-11 10:06:46-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\THCA Blank.sirsl

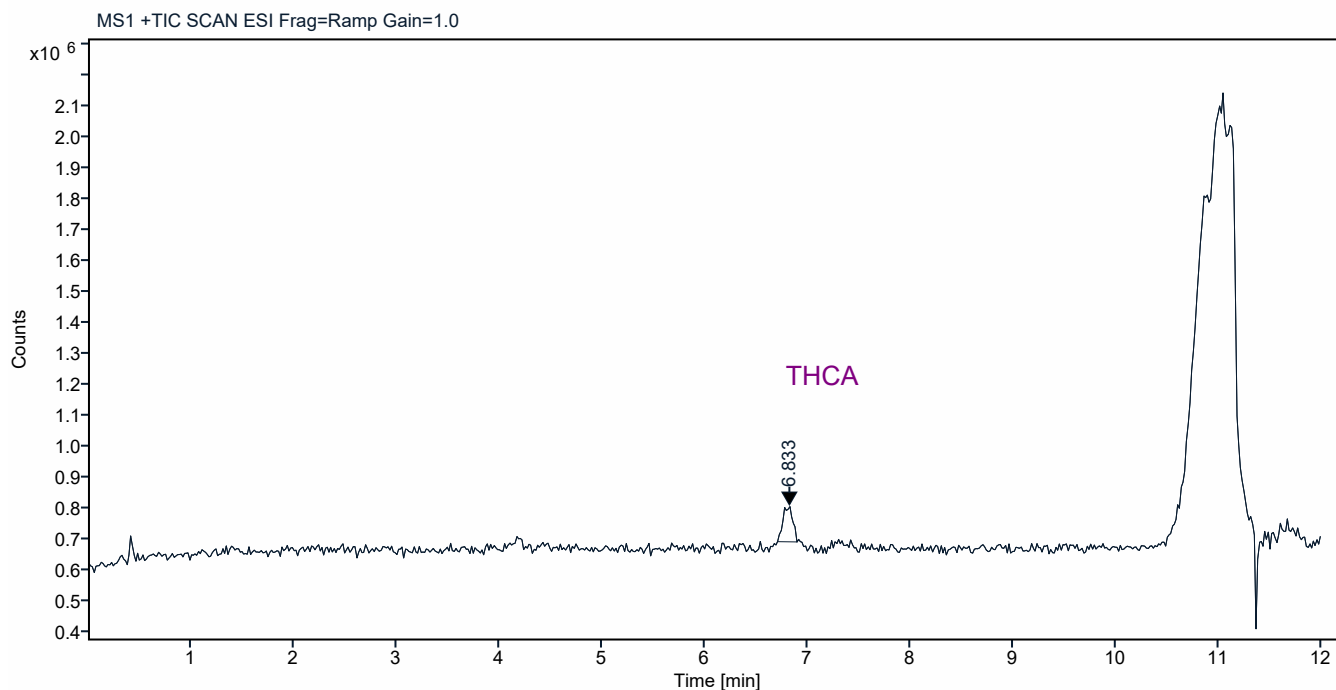


Analysis Report

CD

Sample Name delta-9-THC Acid Cerilliant
FE03162224 MeOH:ACN exp. 10-2026
Instrument Dolly
Name
Sample Vial P1-A4
Number
Injection Volume 3.000

Injection Data File THCA.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-11 10:20:21-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-11-25\THCA.sirslt

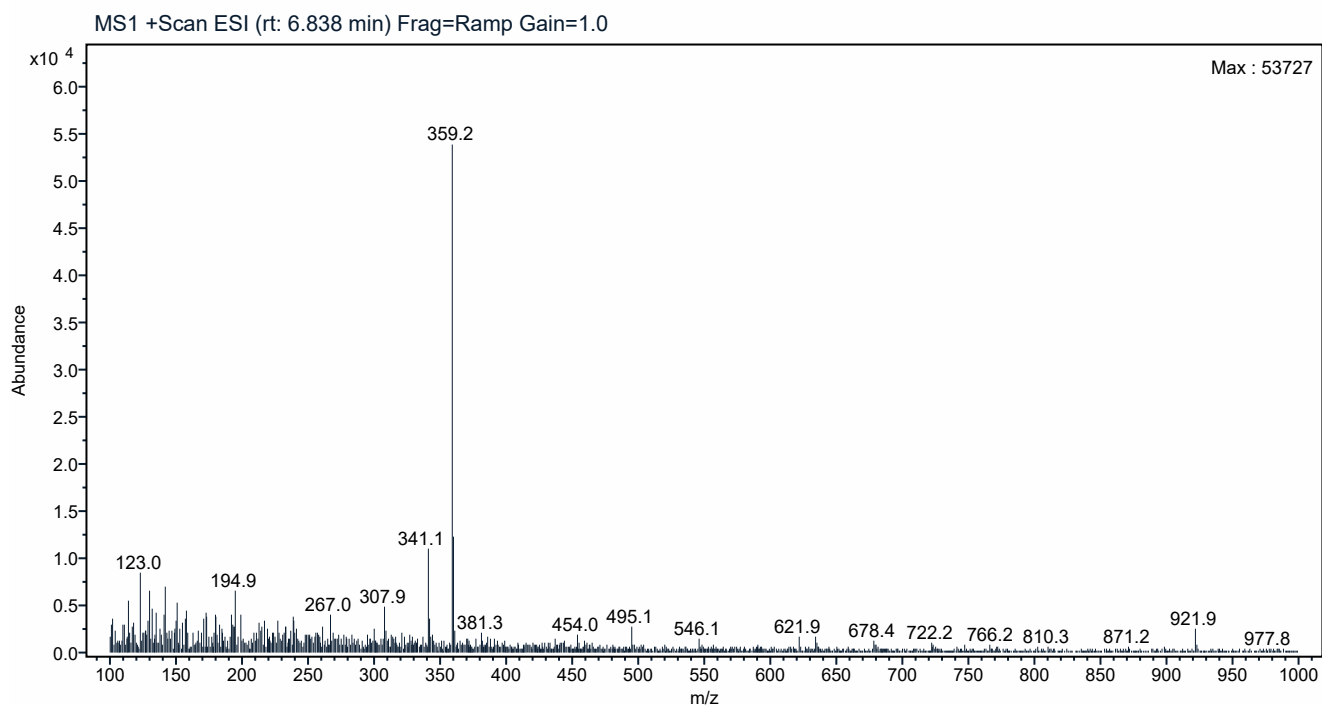


Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.833



Analysis Report



Sample Name	delta-9-THC Acid Cerilliant FE03162224 MeOH:ACN exp. 10-2026	Injection Data File	THCA.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-A4	Injection Acquired Date	2025-08-11 10:20:21-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-11-25\THCA.sirslt

Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
6.833	0.1873	760673.1134	115445.1134	100.0000

CD

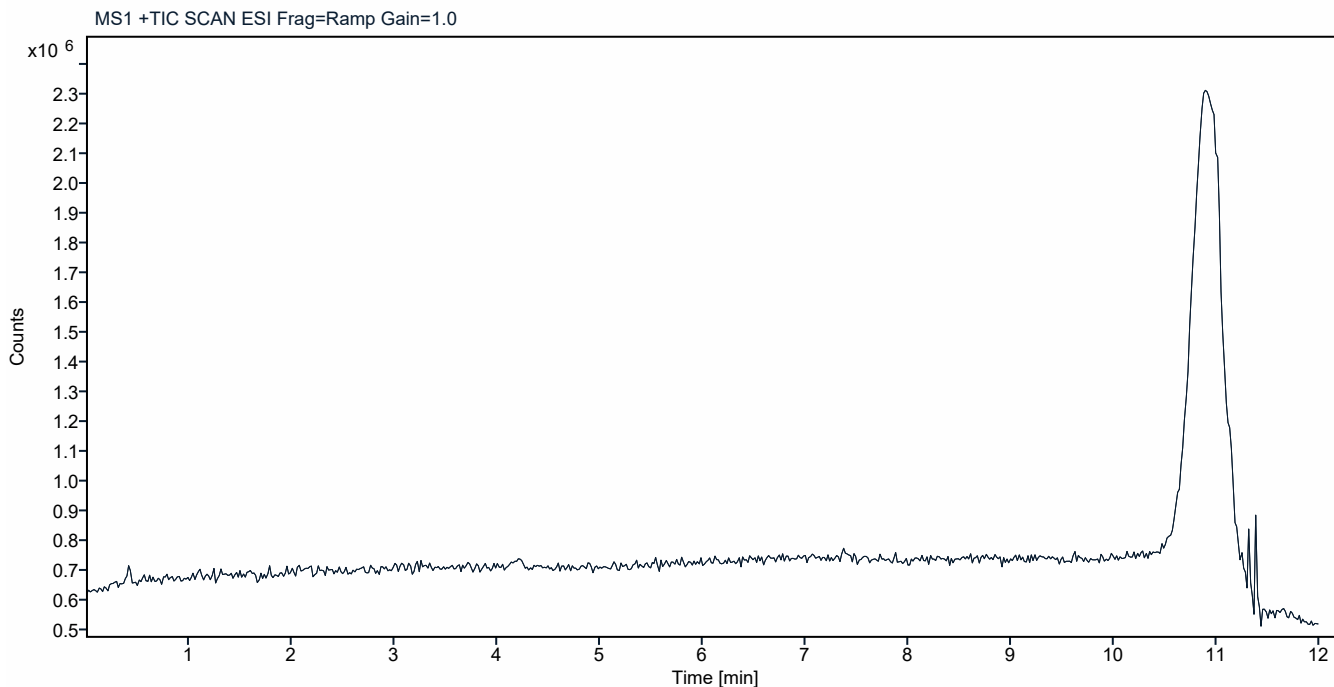
Appendix B

Data and Calculations from 08/13/25

Analysis Report

CD

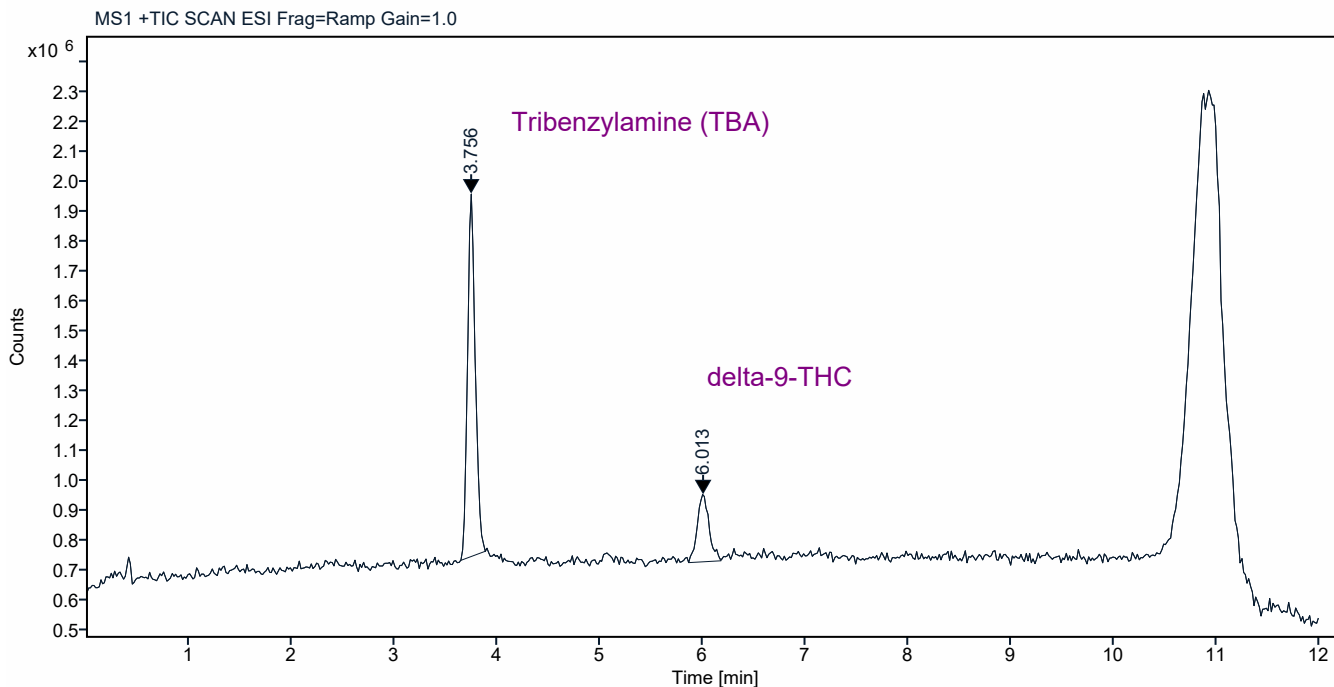
Sample Name	Blank 8-13-25 1% THC Calibrator MeOH:ACN	Injection Data File	THC Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-13 10:19:21-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\THC Blank.sirsl
Processing Method: LC/MS Spectral Deconvolution			



Analysis Report

CD

Sample Name	1% THC Calibrator MeOH:ACN Made 8/13/25	Injection Data File	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-13 10:32:56-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\THC.sirsl
Processing Method	LC/MS Spectral Deconvolution		



Analysis Report

WD

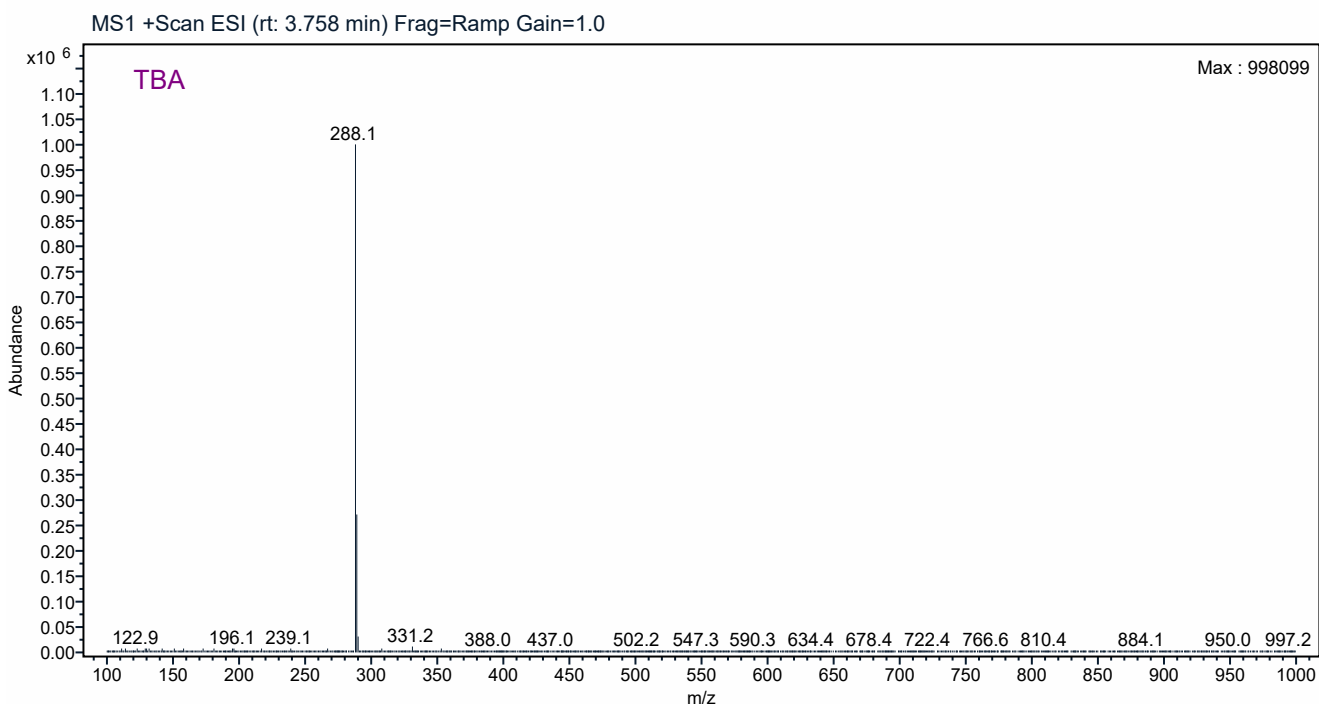
Sample Name	1% THC Calibrator MeOH:ACN Made 8/13/25	Injection Data File	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-13 10:32:56-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\THC.sirsl
Processing Method	LC/MS Spectral Deconvolution		

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.756

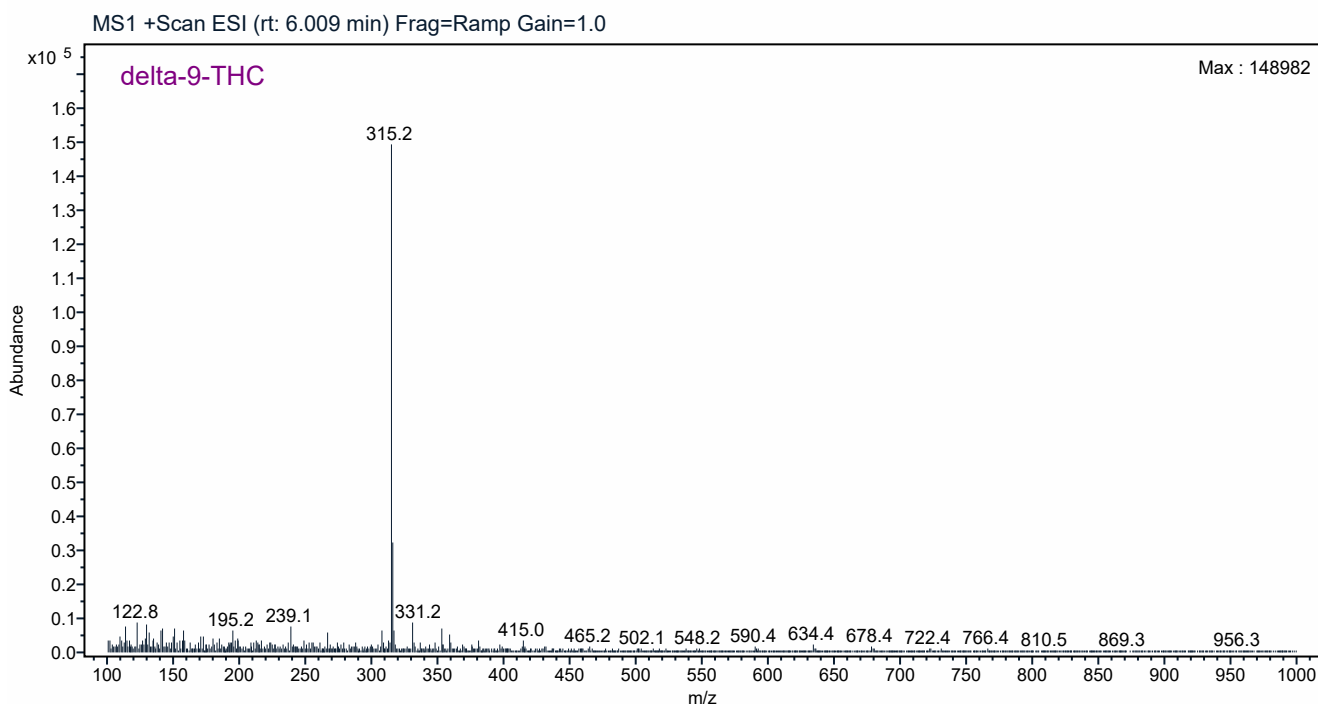


Analysis Report



Sample Name 1% THC Calibrator MeOH:ACN Made 8/13/25 Injection Data File THC.dx
 Name
 Instrument Dolly Injection Acq Cannabis Method Raptor.amx
 Name Method Name
 Sample Vial P1-B2 Injection Acquired 2025-08-13 10:32:56-05:00
 Number Date
 Injection Volume 3.000 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\THC.sirslt
 Processing Method: LC/MS Spectral Deconvolution

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.013



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.756	0.2424	6338492.0554	1213912.7489	77.8727
6.013	0.3148	1801069.0191	225702.4799	22.1273

Analysis Report

CD

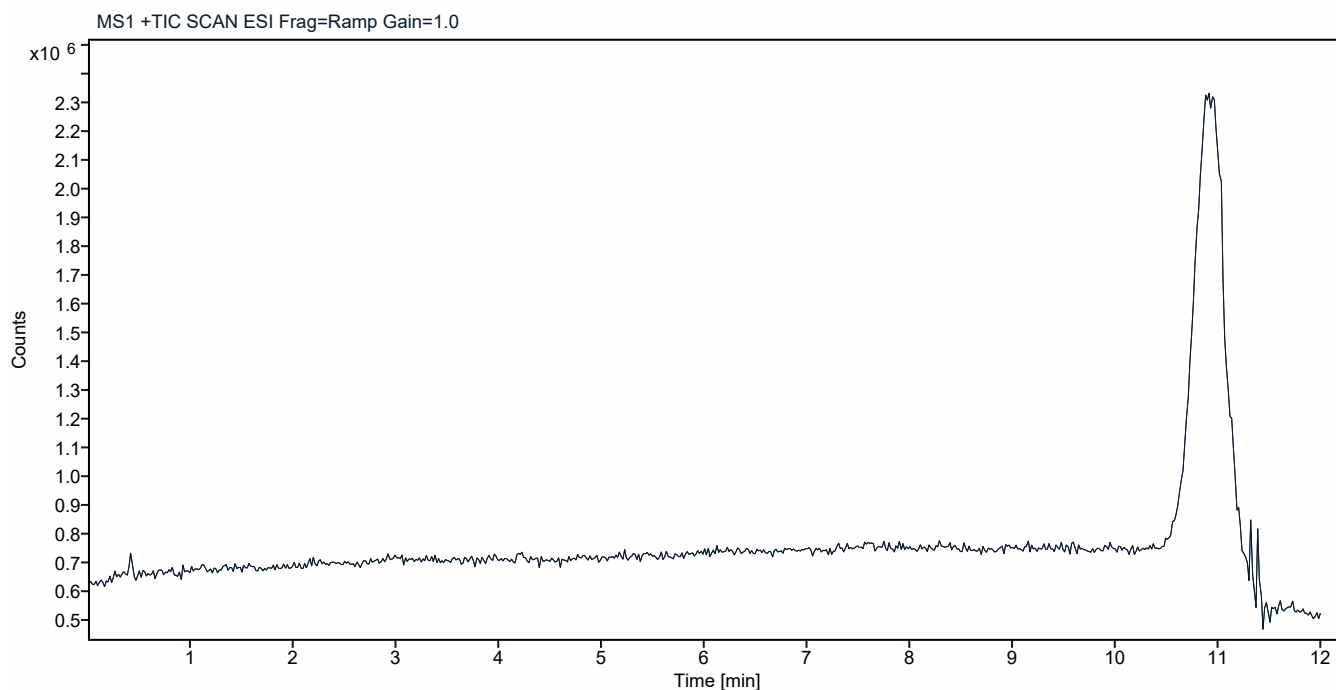
Sample Name Blank 8-13-25 Hemp MeOH:ACN

Injection Data File Hemp Blank.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B1
NumberInjection Acquired 2025-08-13 11:00:11-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Hemp Blank.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

CD

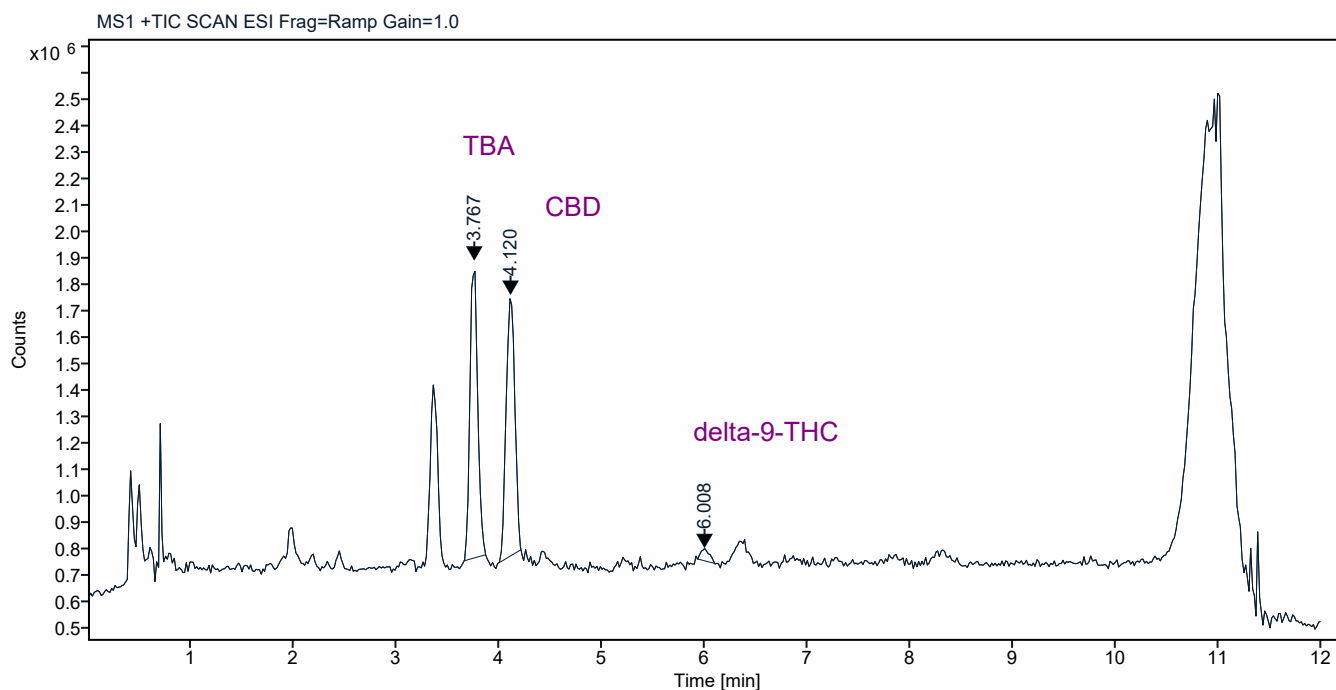
Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-13 11:13:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
13-25\Hemp.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

WD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-13 11:13:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Hemp.sirslt

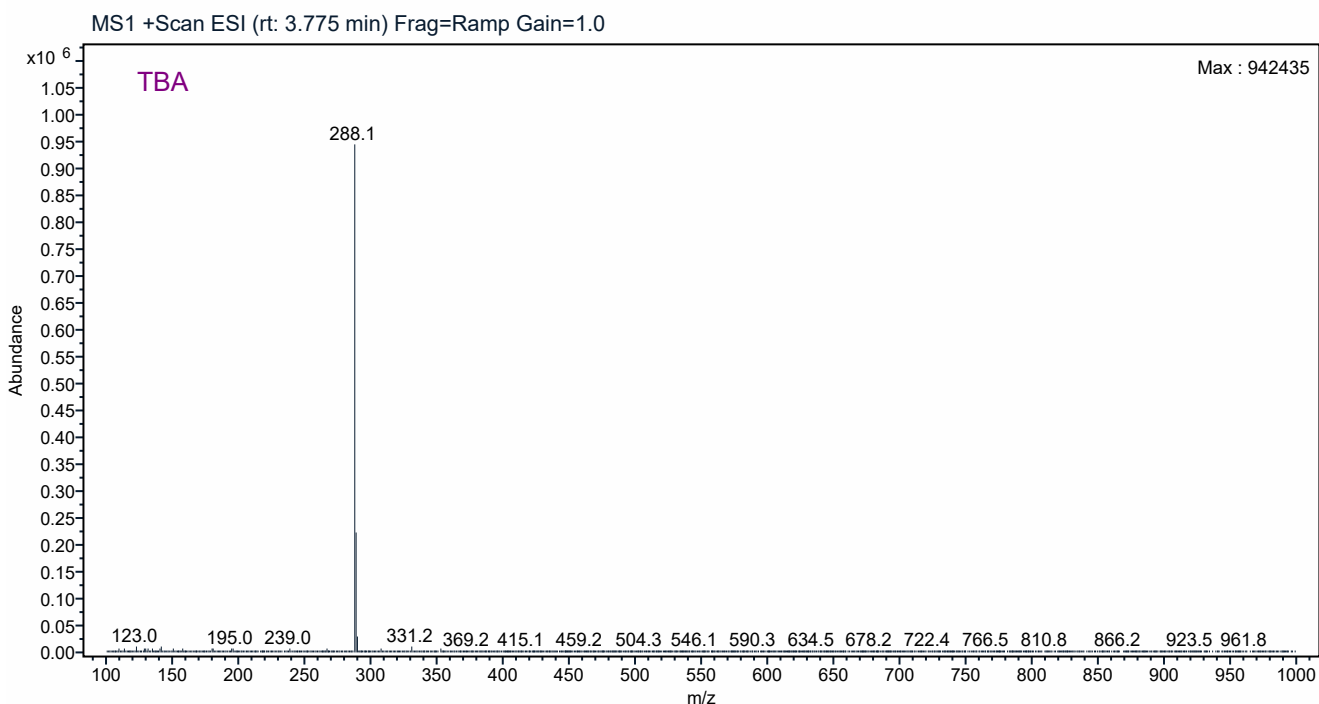
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.767



Analysis Report

CD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-13 11:13:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Hemp.sirslt

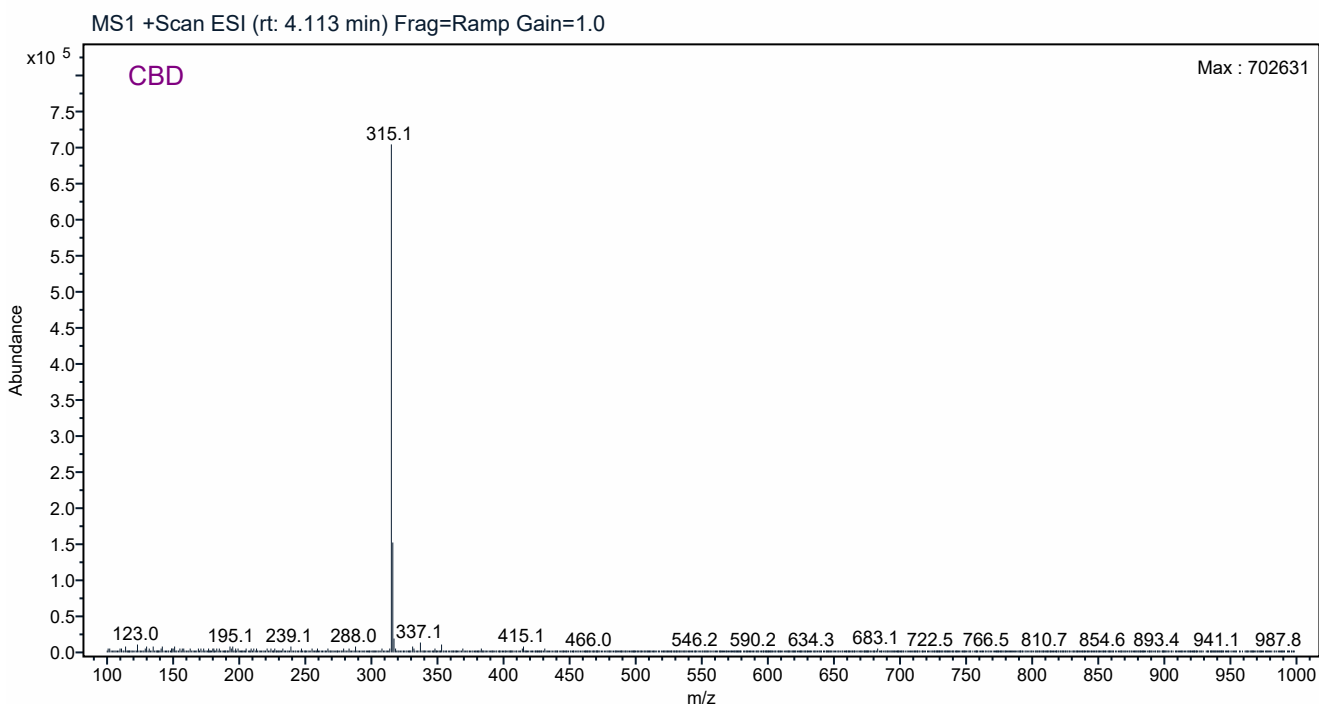
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

4.120



Analysis Report



Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-13 11:13:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\Hemp.sirslt

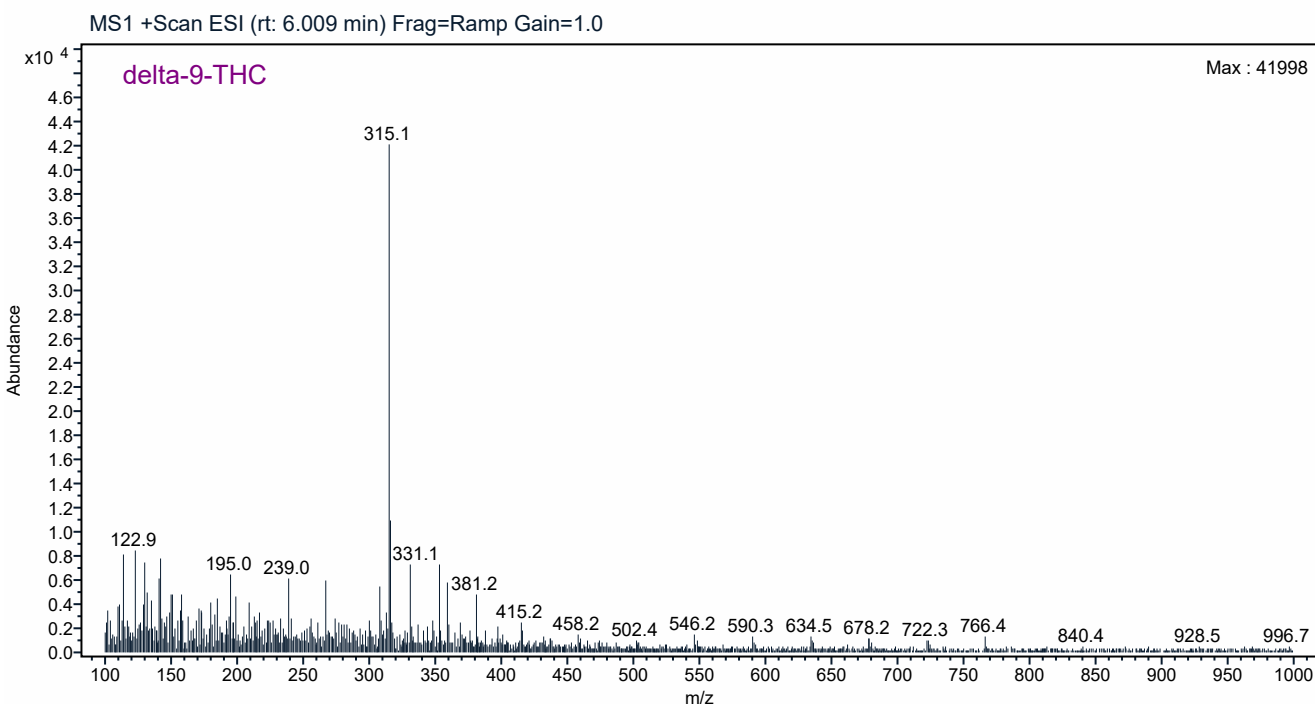
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.008



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.767	0.2084	5781204.8883	1124279.1350	48.9660
4.120	0.2113	5760865.5230	987033.5152	48.7937
6.008	0.1786	264505.0043	47120.3583	2.2403

Δ^9 THC Screening

Laboratory / Exhibit Number: **Hemp**Date: **8/13/2025**Analyst: **CLD**Page: **40** Δ^9 THC - Manufacturer / Lot Number: **Cerilliant FE06212201**Methanol Lot Number: **24K2761006**Internal Standard Prepared Date: **4/22/25**Pipette(s): **JCL-FC-004** (Sample Preparation) **JCL-FC-002** (Dilution - LC/MS)Analytical Balance: **JCL-FC-011**Sample weight: **100.76** mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard AbundanceStandard Ratio = **1801069.0191** / **6338492.0554**Standard Ratio = **0.2841478704016993**

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard AbundanceSample Ratio = **264505.0043** / **5781204.8883**Sample Ratio = **0.04575257397213254**

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = **0.0457525** x (100 mg / **100.76** mg)Corrected Sample Ratio = **0.0457525** x **0.9924573243350535**Corrected Sample Ratio = **0.045407477**

Result:

The Corrected Sample Ratio (**0.04540**) is **Less** than the Standard Ratio (**0.28414**)Therefore the sample is **Less** than 1% Δ^9 Tetrahydrocannabinol.

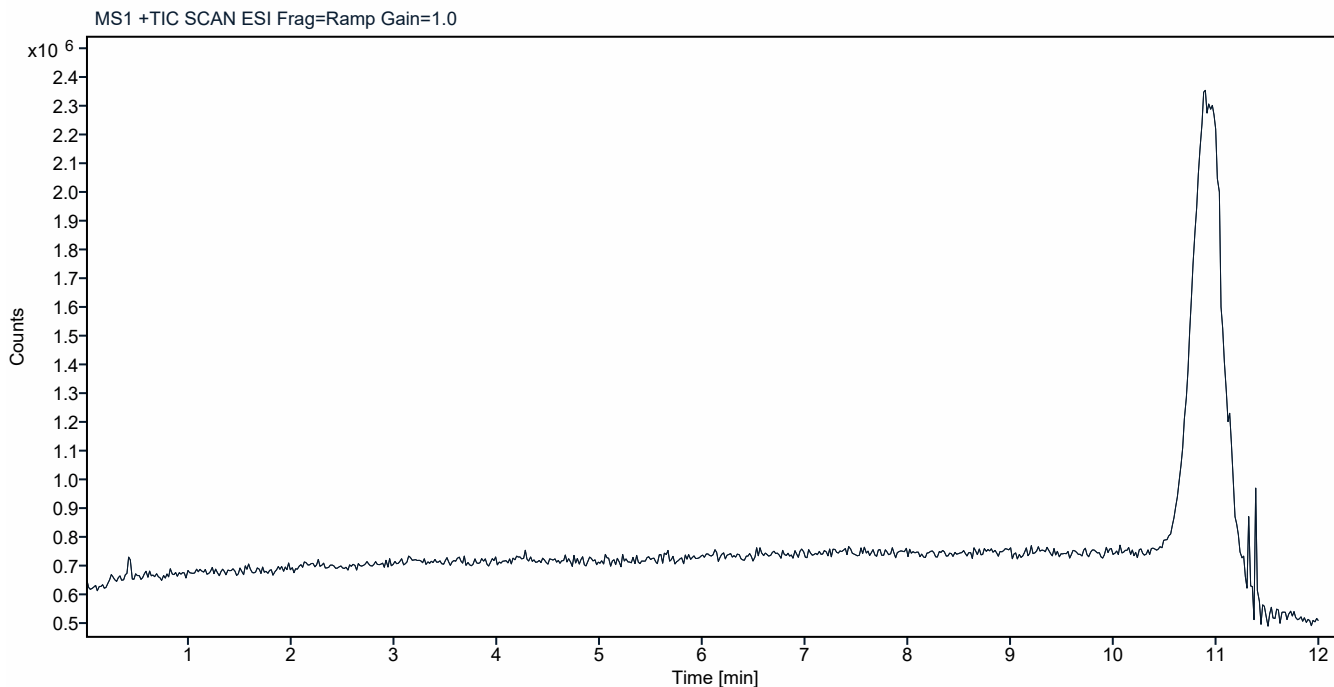
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana1 MeOH:ACN	Injection Data File	MJ1 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-13 11:41:01-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ1 Blank.sirslt
Processing Method: LC/MS Spectral Deconvolution			

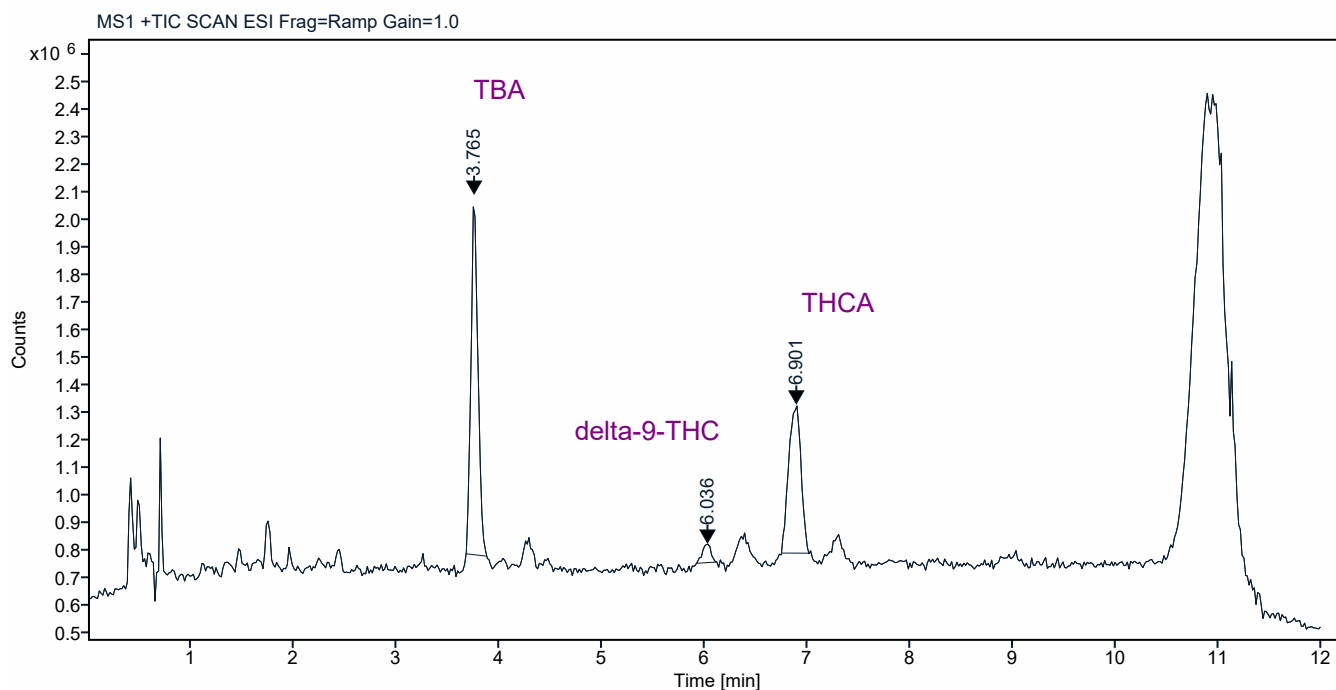




Analysis Report

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 11:54:35-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ1.sirslt



Analysis Report

WD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

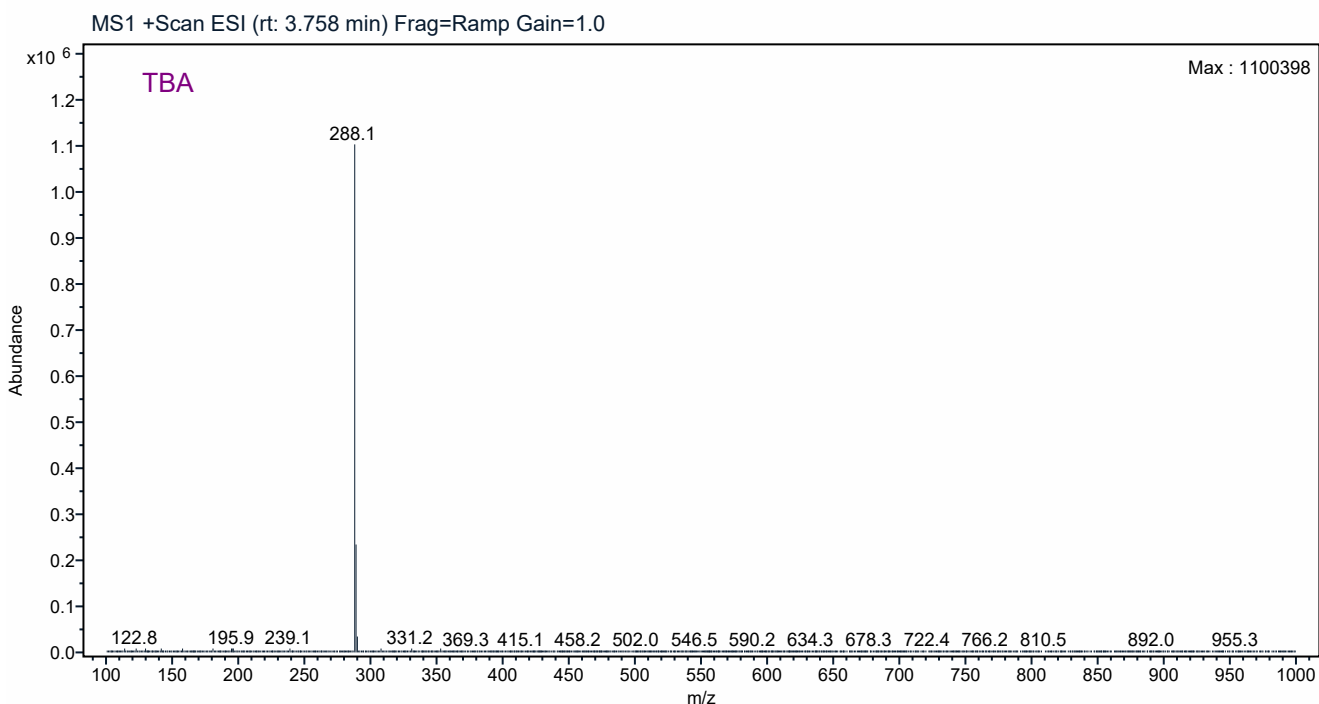
Injection Data File MJ1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 11:54:35-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ1.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.765



Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

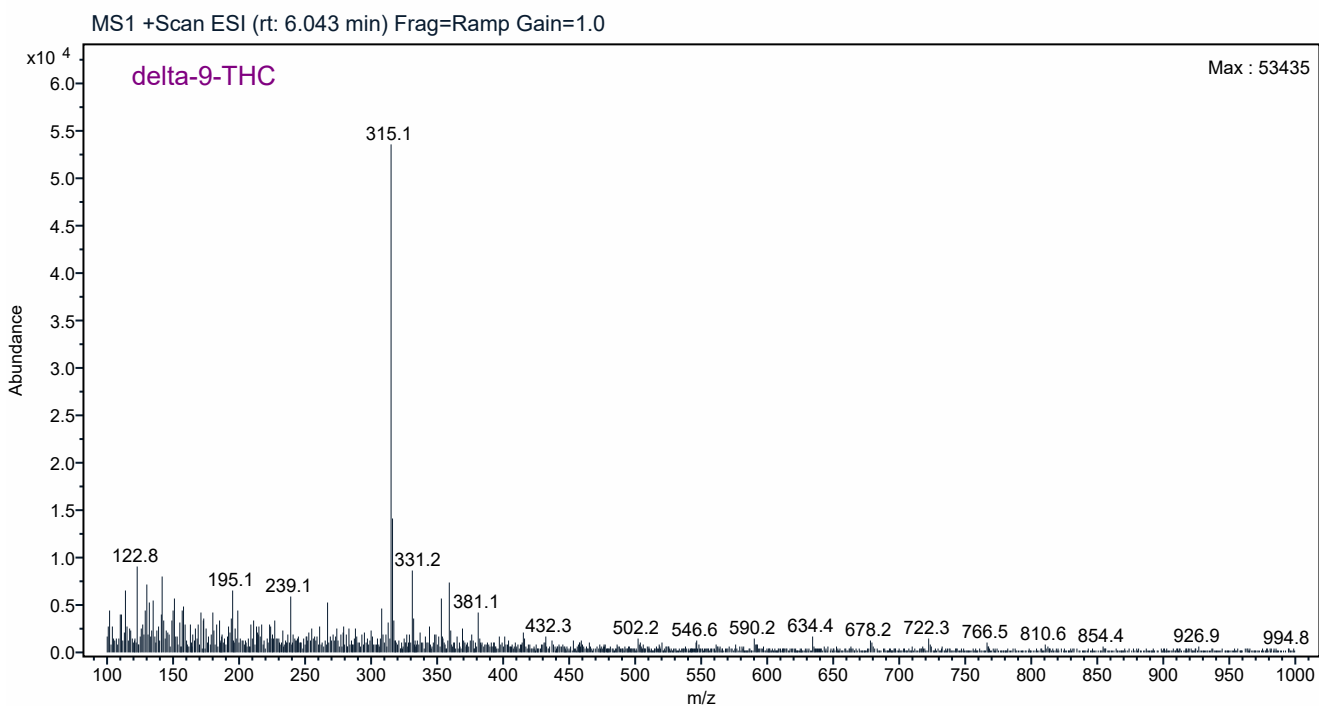
Injection Data File MJ1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 11:54:35-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ1.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.036



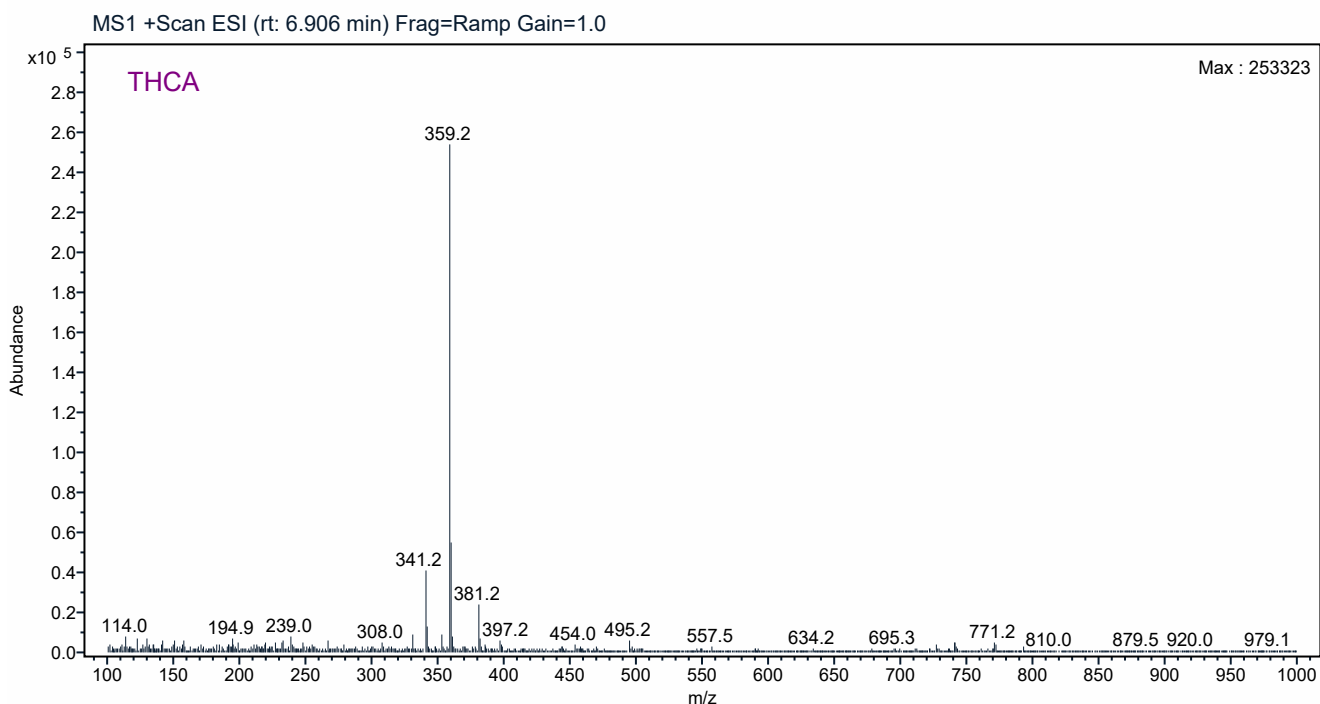
Analysis Report



Sample Name Marijuana 1 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B4
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ1.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-13 11:54:35-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ1.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.901



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.765	0.1996	6063019.1774	1305716.5128	55.4765
6.036	0.1960	390061.2109	67514.9523	3.5691
6.901	0.2679	4475904.5365	538524.8697	40.9544

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 1

Date: 8/13/2025

Analyst: CLD

Page: 46

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 100.37 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,801,069.0191 / 6,338,492.0554

Standard Ratio = 0.284

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 390,061.2109 / 6,063,019.1774

Sample Ratio = 0.064

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.064 x (100 mg / 100.37 mg)

Corrected Sample Ratio = 0.064 x 0.99631

Corrected Sample Ratio = 0.064

Result:

The Corrected Sample Ratio (0.064) is Less than the Standard Ratio (0.284)

Therefore the sample is Less than 1% Δ^9 Tetrahydrocannabinol.

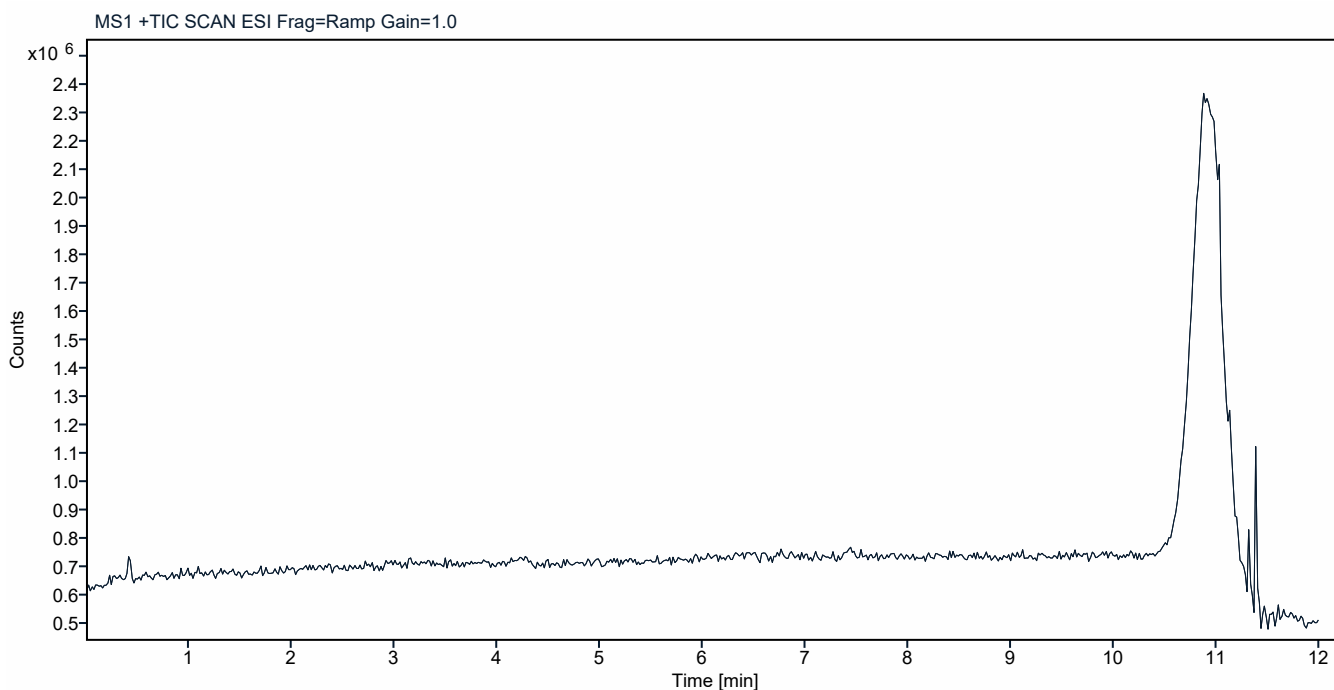
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana2 MeOH:ACN	Injection Data File	MJ2 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-13 12:21:50-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ2 Blank.sirsl
Processing Method	LC/MS Spectral Deconvolution		

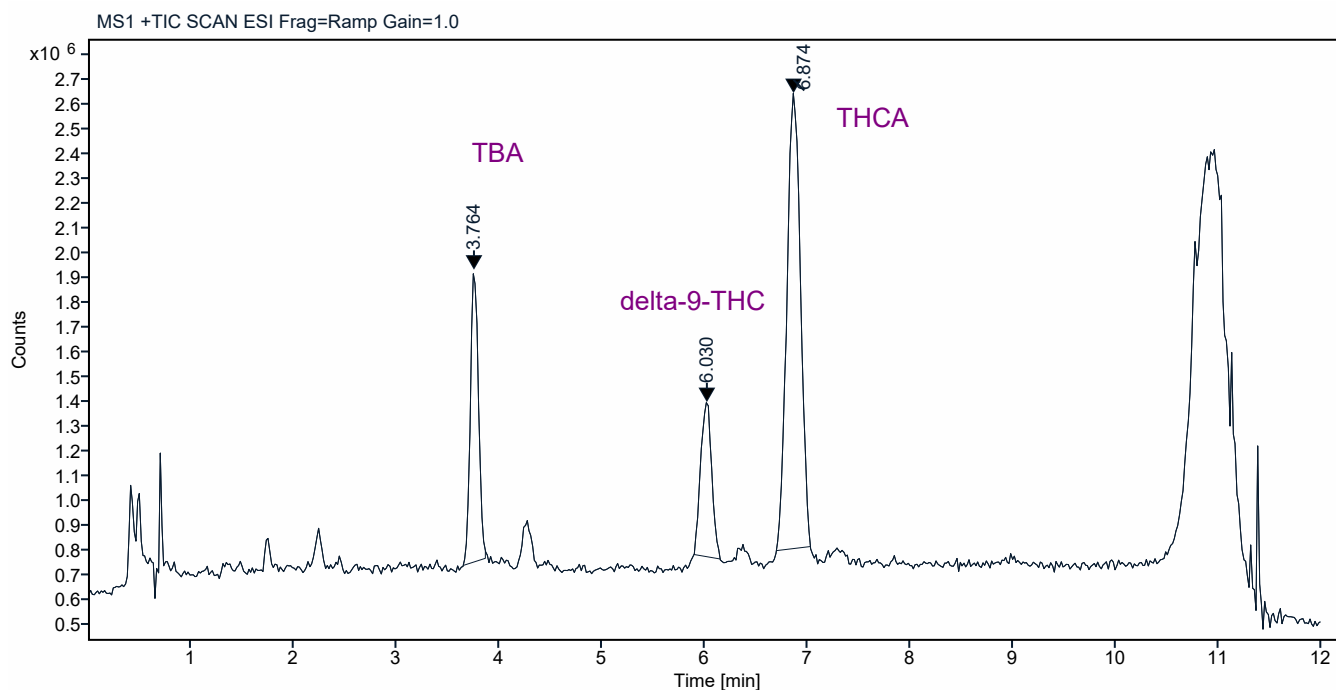


Analysis Report

CD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 12:35:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ2.sirslt



Analysis Report

WD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

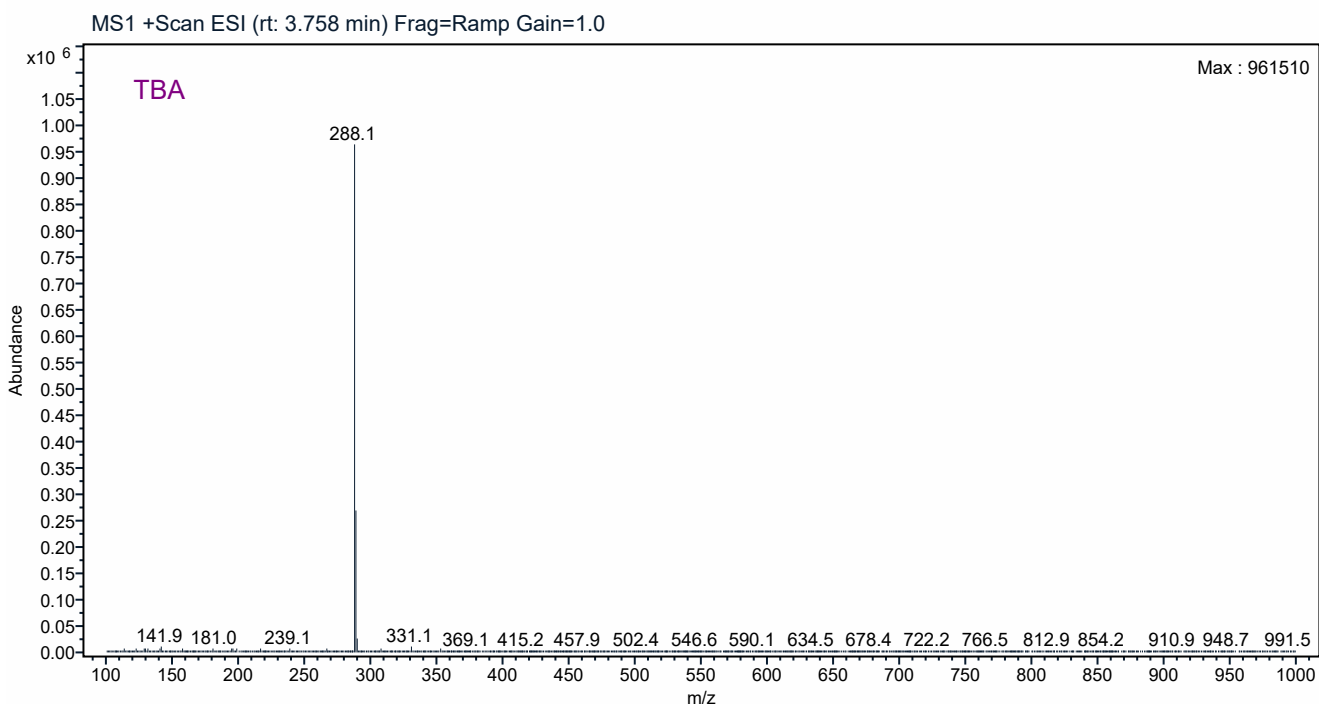
Injection Data File MJ2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 12:35:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ2.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.764



Analysis Report

WD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

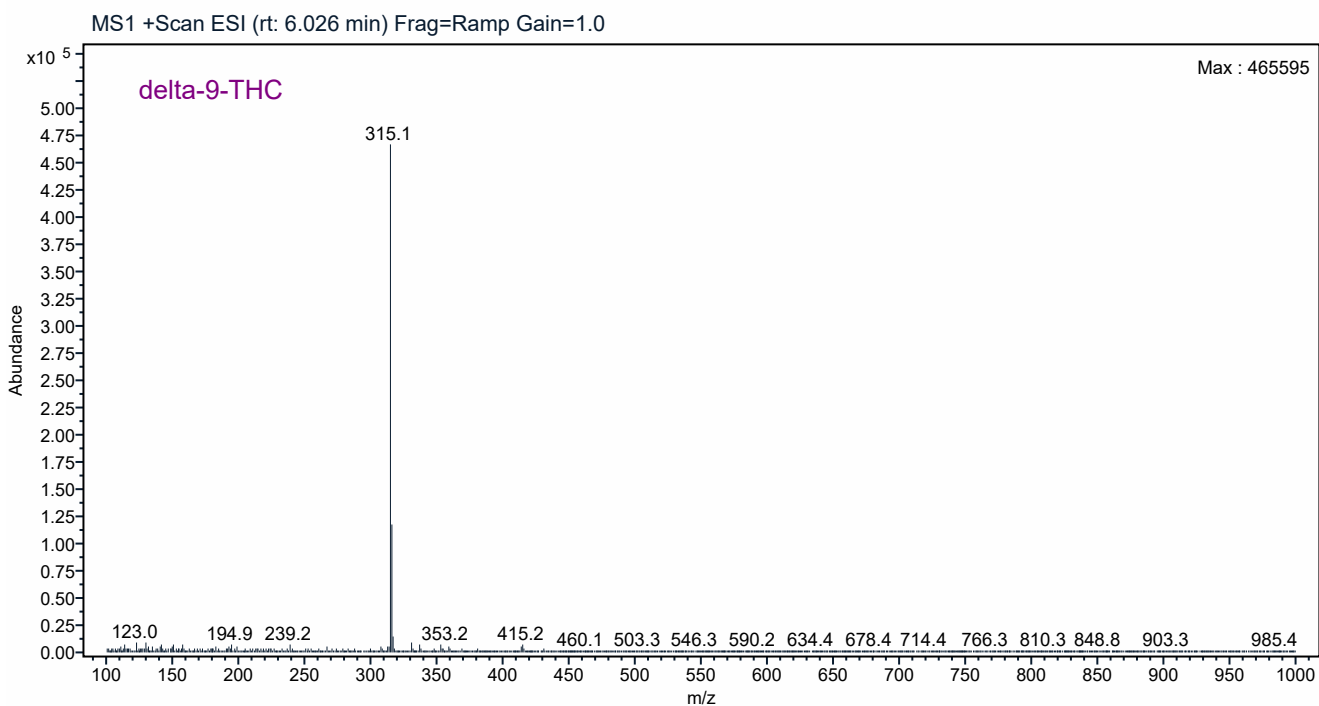
Injection Data File MJ2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 12:35:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ2.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.030



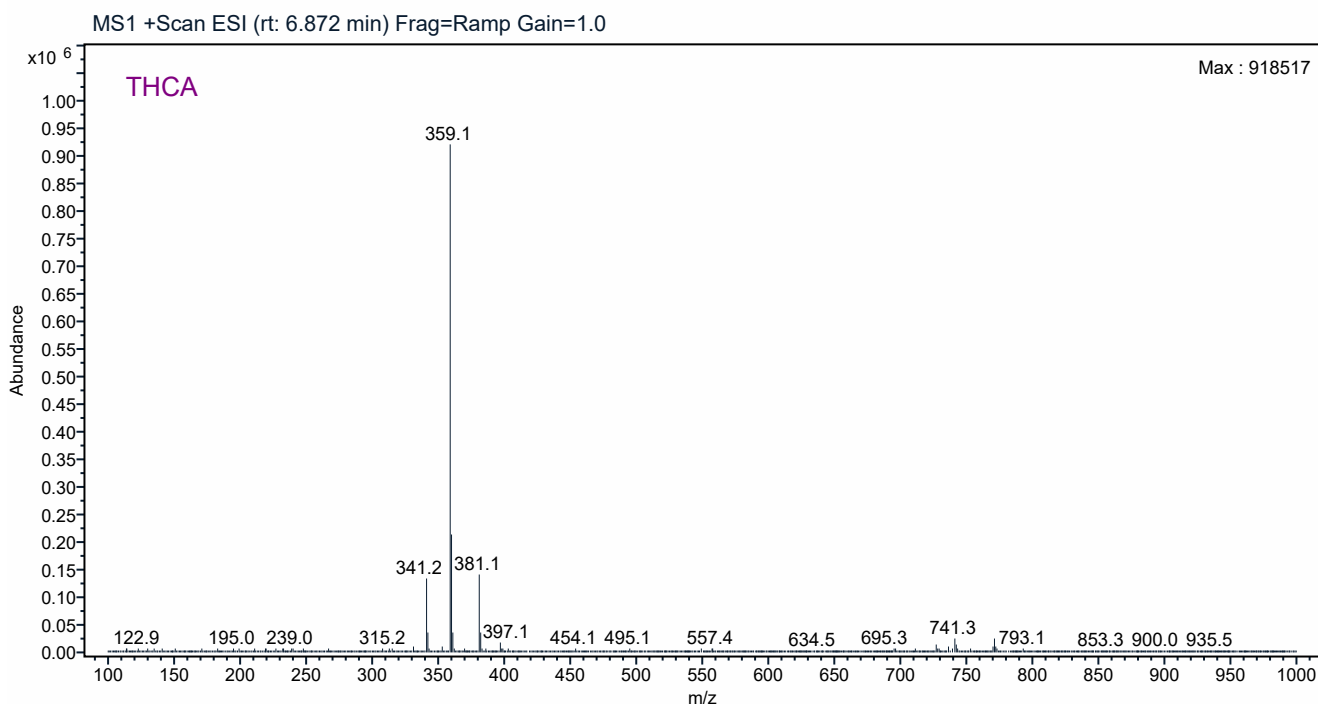
Analysis Report



Sample Name Marijuana 2 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B5
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ2.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-13 12:35:26-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ2.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.874



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.764	0.2161	6402314.6834	1179856.3102	22.8240
6.030	0.2556	4649550.5865	623878.7296	16.5755
6.874	0.3324	16998925.5631	1838567.4000	60.6005

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 2

Date: 8/13/2025

Analyst: CLD

Page: 52

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.58 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,801,069.0191 / 6,338,492.0554

Standard Ratio = 0.284

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 4,649,550.5865 / 6,402,314.6834

Sample Ratio = 0.726

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.726 x (100 mg / 99.58 mg)

Corrected Sample Ratio = 0.726 x 1.00422

Corrected Sample Ratio = 0.729

Result:

The Corrected Sample Ratio (0.729) is Greater than the Standard Ratio (0.284)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

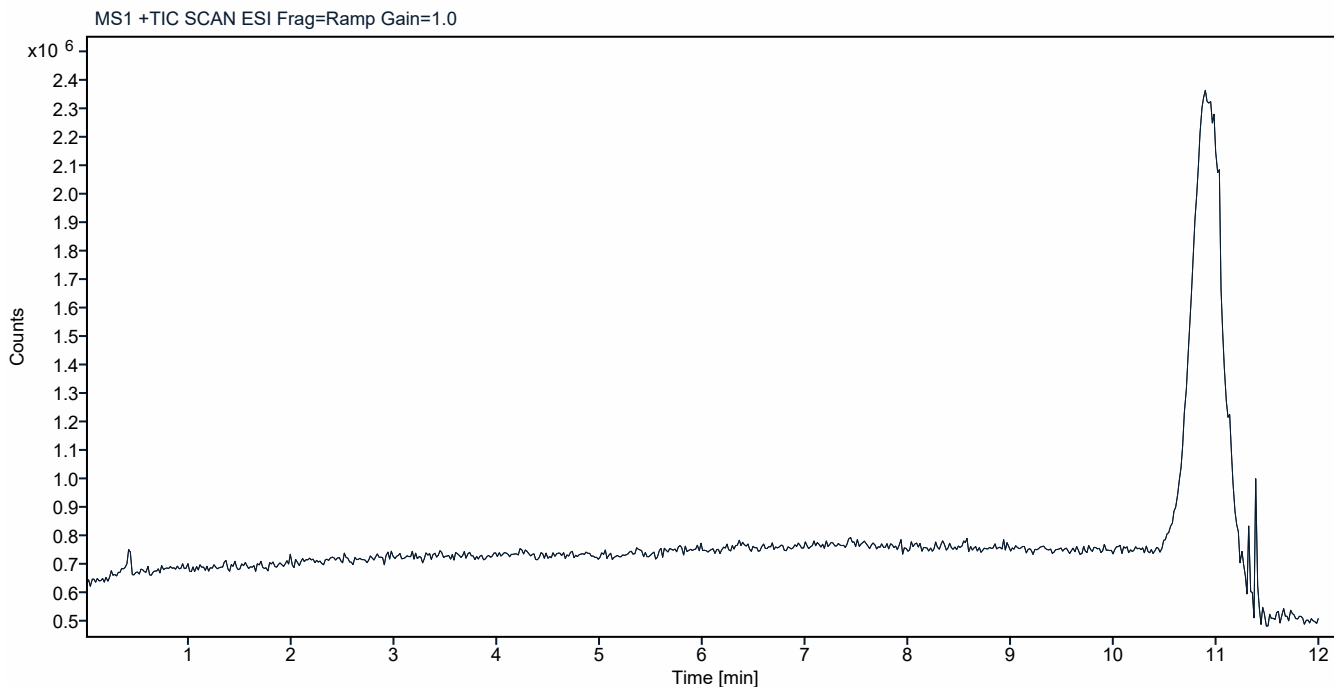
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

uo

Sample Name	Blank 8-13-25 Marijuana3 MeOH:ACN	Injection Data File	MJ3 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-13 13:02:40-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ3 Blank.sirsl
Processing Method: LC/MS Spectral Deconvolution			

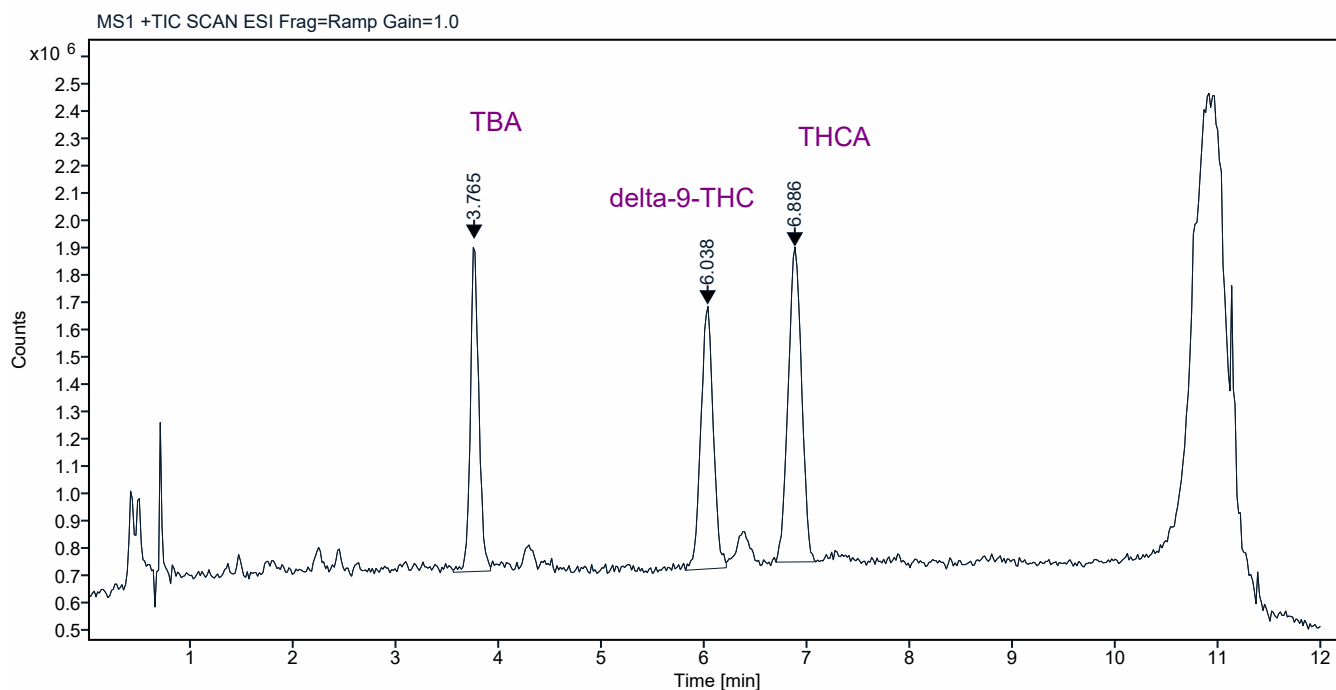


Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 13:16:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ3.sirslt



Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

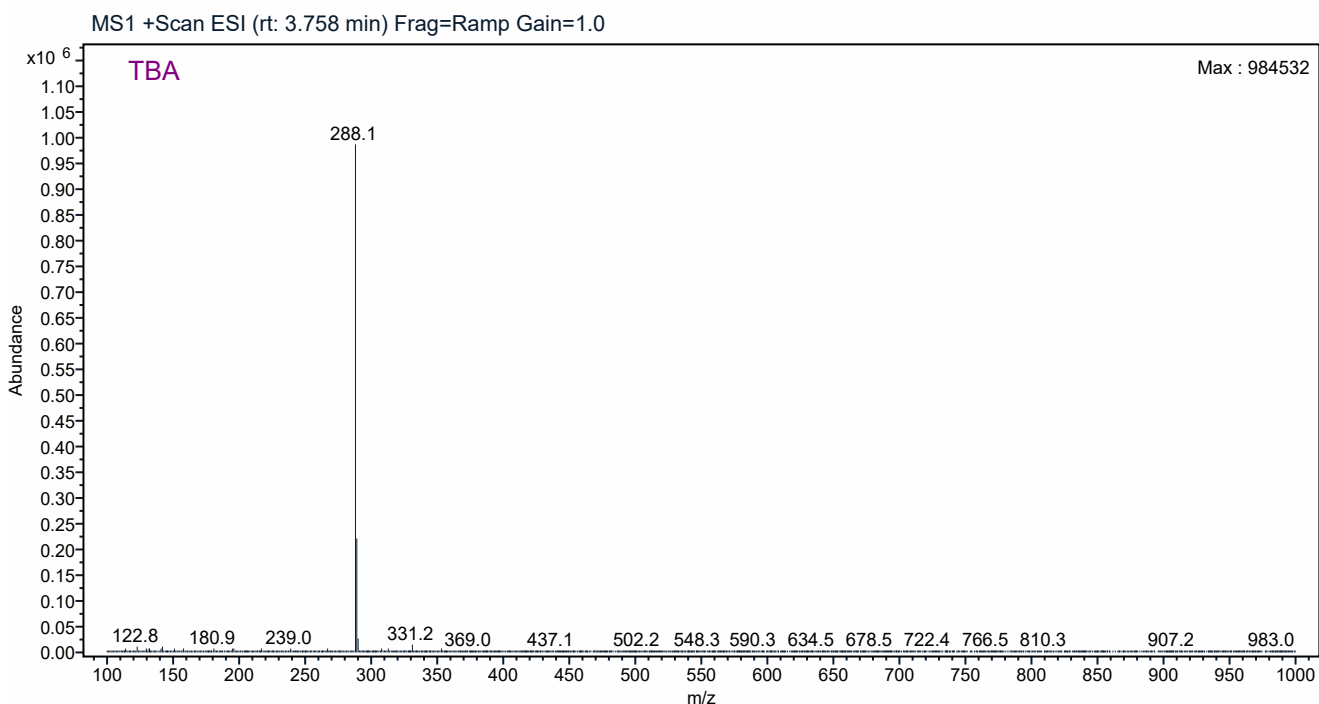
Injection Data File MJ3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 13:16:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ3.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.765



Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

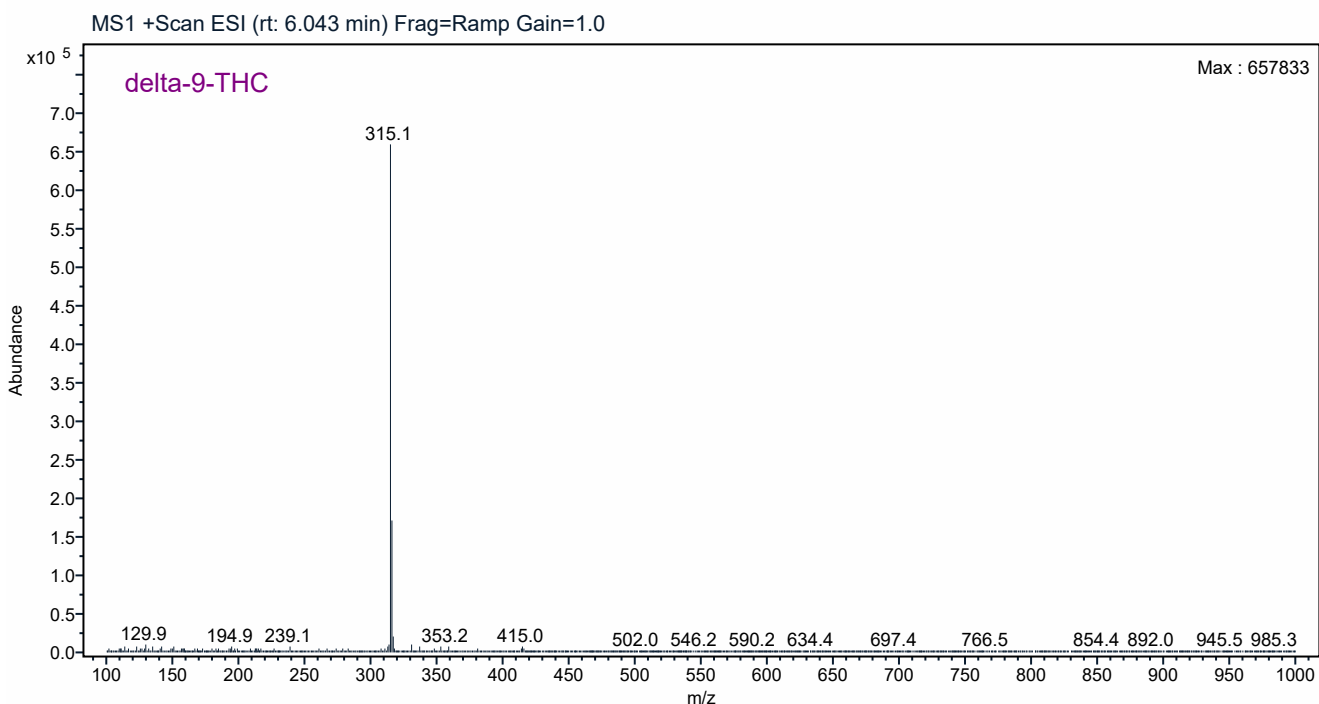
Injection Data File MJ3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 13:16:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ3.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

6.038



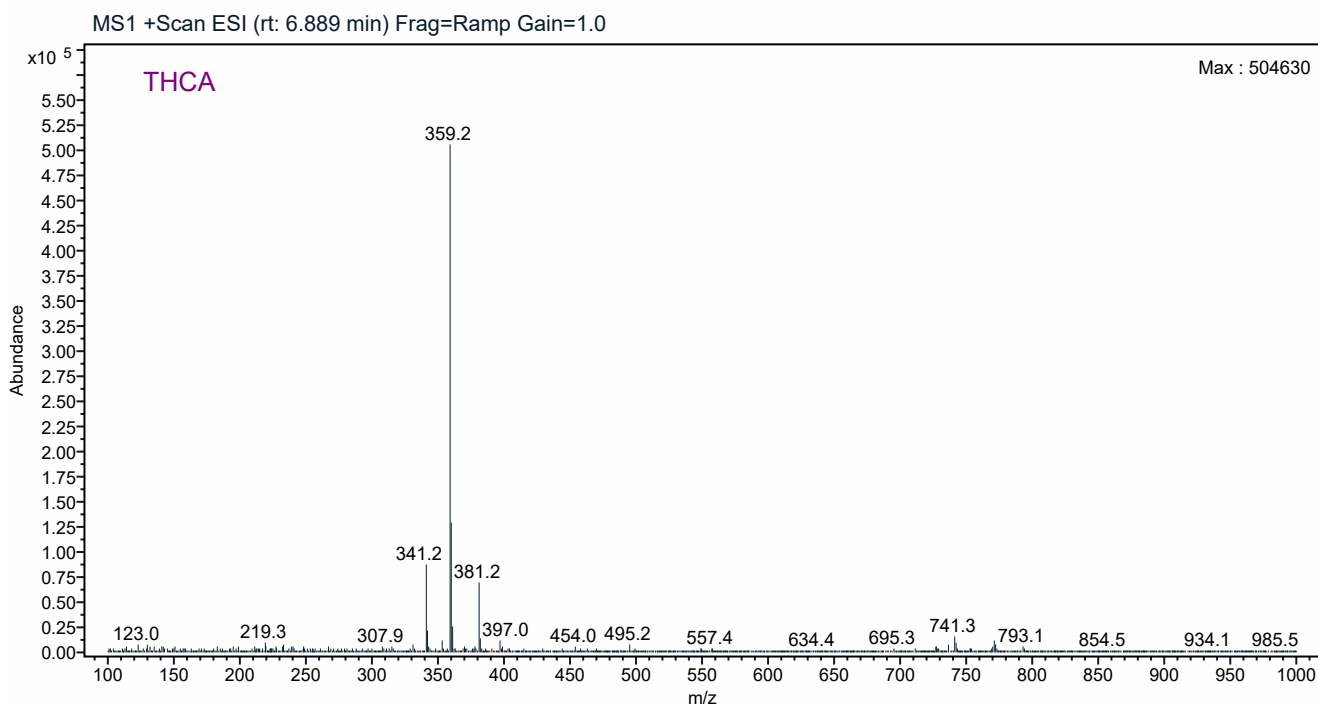
Analysis Report



Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File MJ3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-13 13:16:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-13-25\MJ3.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.886



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.765	0.3634	6825364.5832	1217446.2484	26.8350
6.038	0.3961	8071159.2415	967409.0033	31.7331
6.886	0.3890	10538022.8163	1154321.1175	41.4319

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 3

Date: 8/13/2025

Analyst: CLD

Page: 58

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.93 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,801,069.0191 / 6,338,492.0554

Standard Ratio = 0.284

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 8,071,159.2415 / 6,825,364.5832

Sample Ratio = 1.183

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 1.183 x (100 mg / 99.93 mg)

Corrected Sample Ratio = 1.183 x 1.00070

Corrected Sample Ratio = 1.183

Result:

The Corrected Sample Ratio (1.183) is Greater than the Standard Ratio (0.284)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

CD

Appendix C

Data and Calculations from 08/14/25

Analysis Report

CD

Sample Name Blank 8-13-25 1% THC Calibrator
MeOH:ACN

Instrument Dolly
Name

Sample Vial P1-B1
Number

Injection Volume 3.000

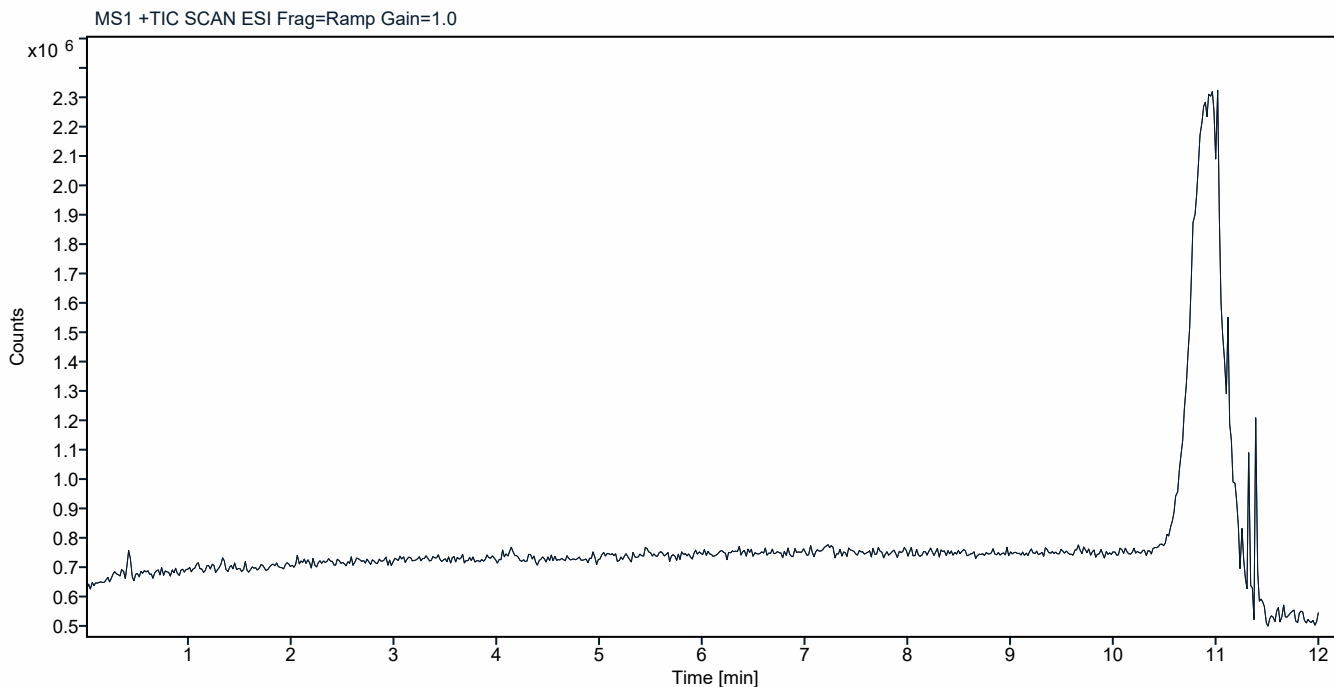
Processing Method: LC/MS Spectral Deconvolution

Injection Data File THC Blank.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-14 08:38:05-05:00
Date

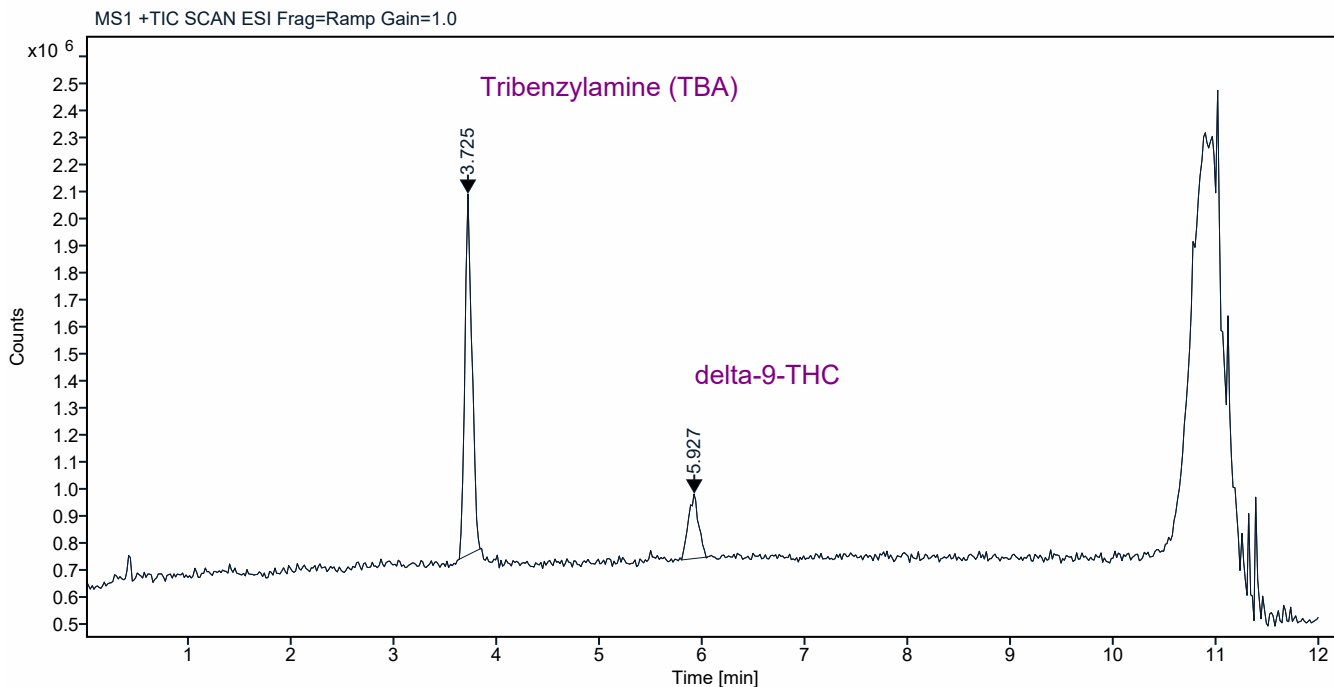
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\THC Blank.sirslt



Analysis Report

CD

Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File Name	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-14 08:51:40-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\THC.sirsl
Processing Method	LC/MS Spectral Deconvolution		



Analysis Report

WD

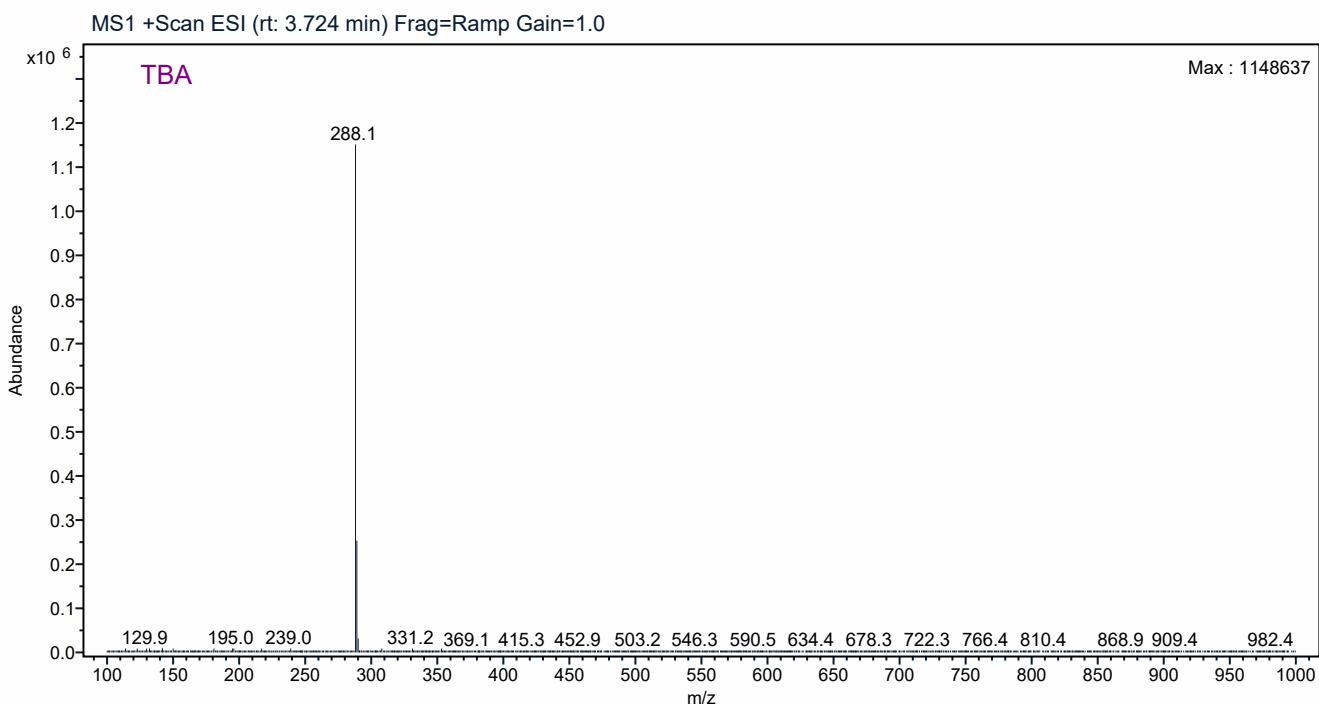
Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File Name	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-14 08:51:40-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\THC.sirsl
Processing Method	LC/MS Spectral Deconvolution		

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.725

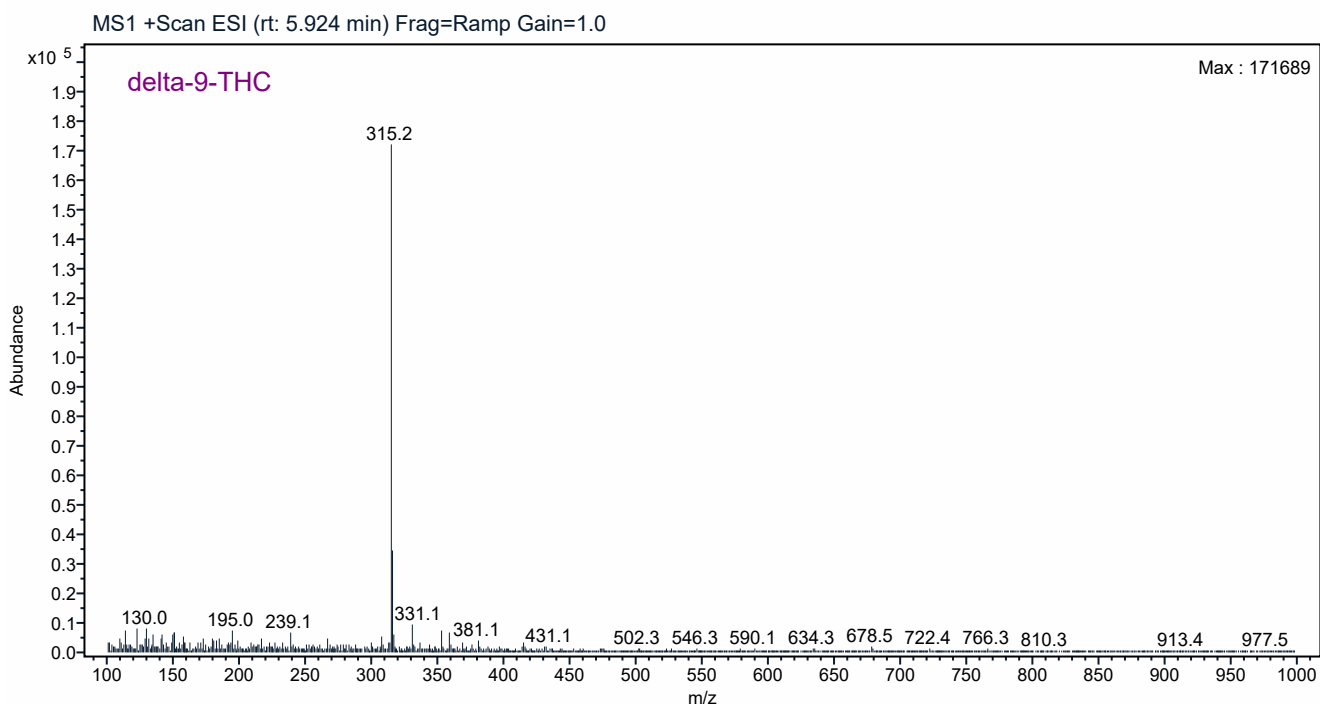


Analysis Report



Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-14 08:51:40-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\THC.sirslt
Processing Method: LC/MS Spectral Deconvolution			

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 5.927



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.725	0.2081	6363340.8348	1335299.2277	79.3495
5.927	0.2358	1656042.0128	239376.2062	20.6505

Analysis Report

uo

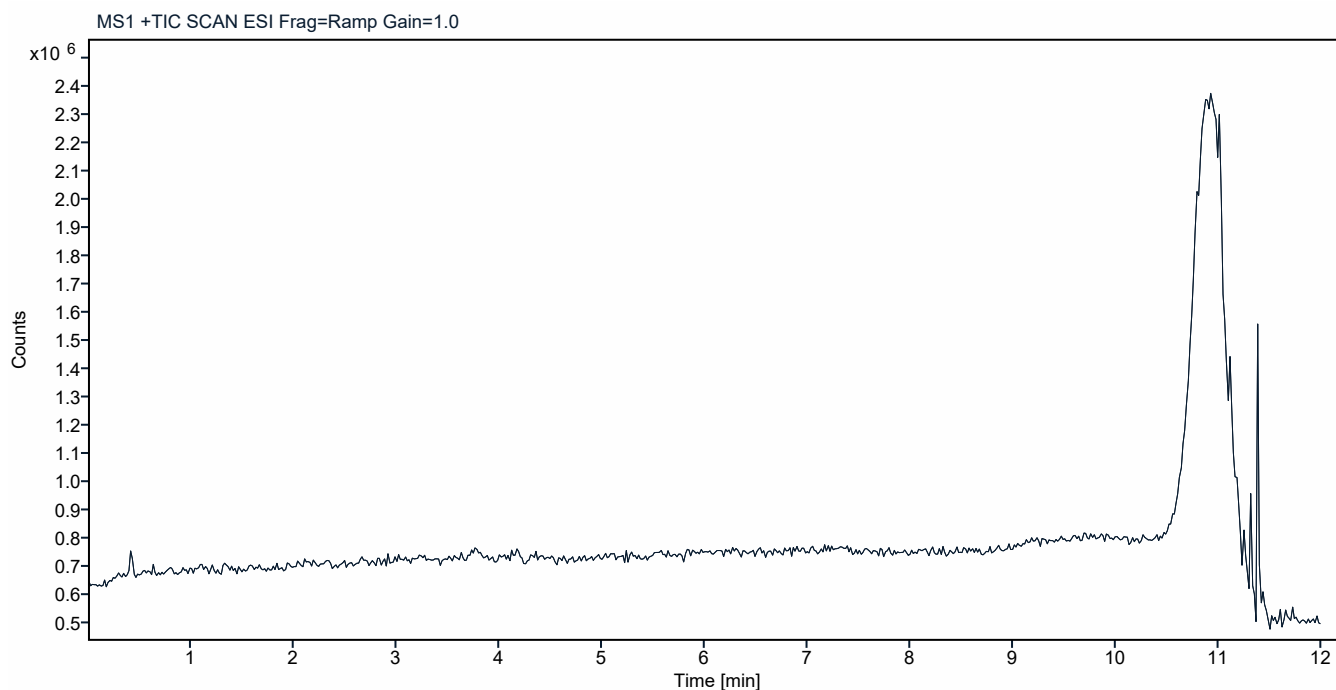
Sample Name Blank 8-13-25 Hemp MeOH:ACN

Injection Data File Hemp Blank.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B1
NumberInjection Acquired 2025-08-14 09:18:55-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Hemp Blank.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

CD

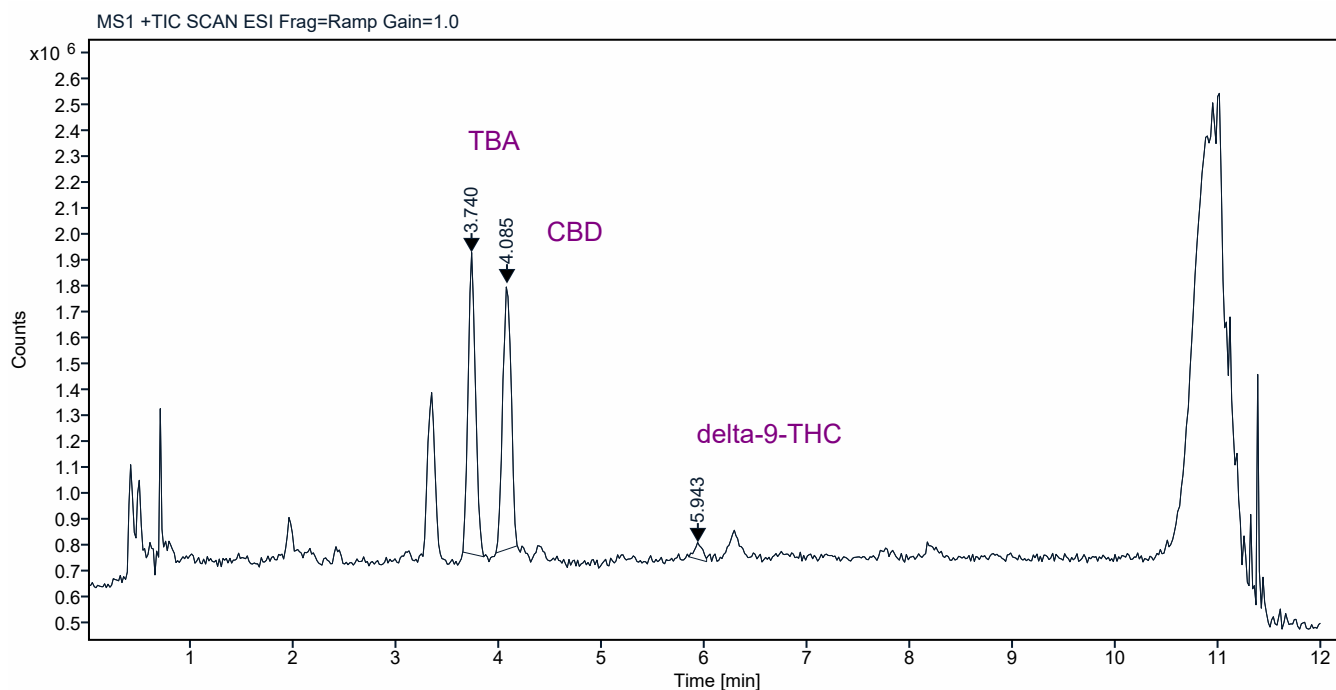
Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-14 09:32:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Hemp.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

WD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-14 09:32:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Hemp.sirslt

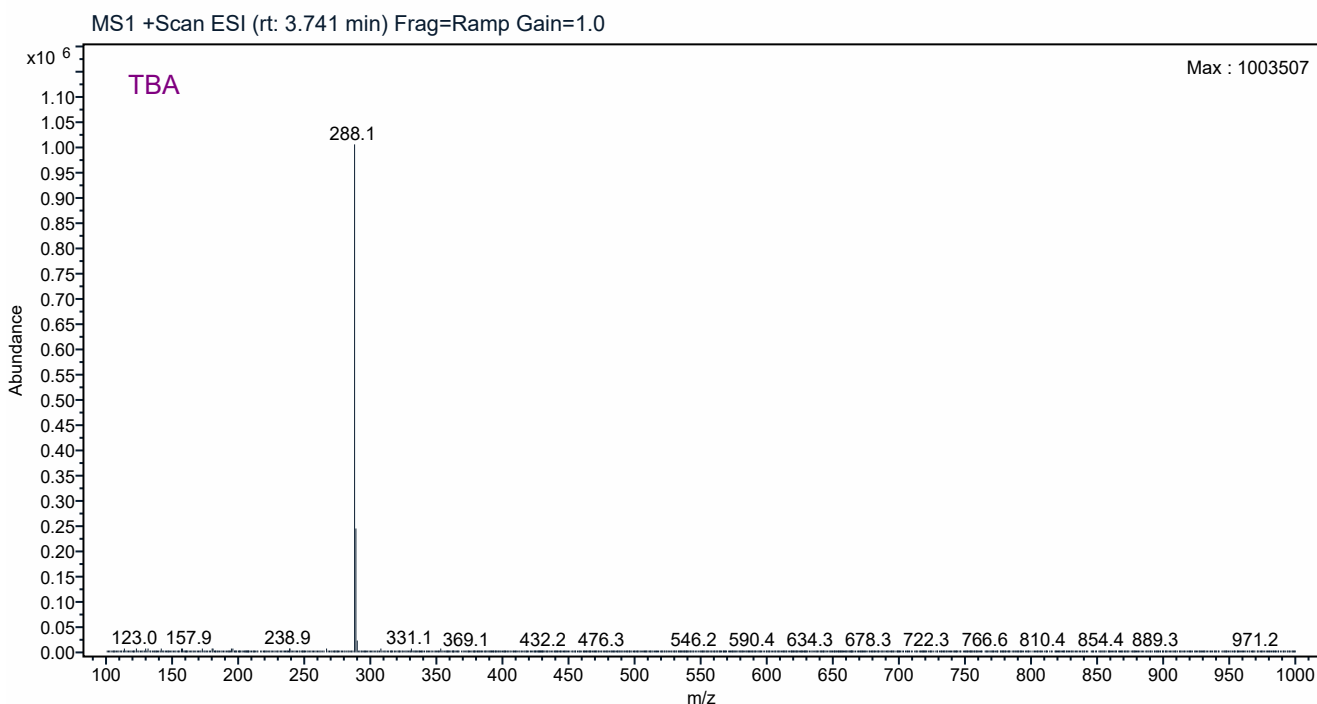
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.740



Analysis Report

CD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-14 09:32:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Hemp.sirslt

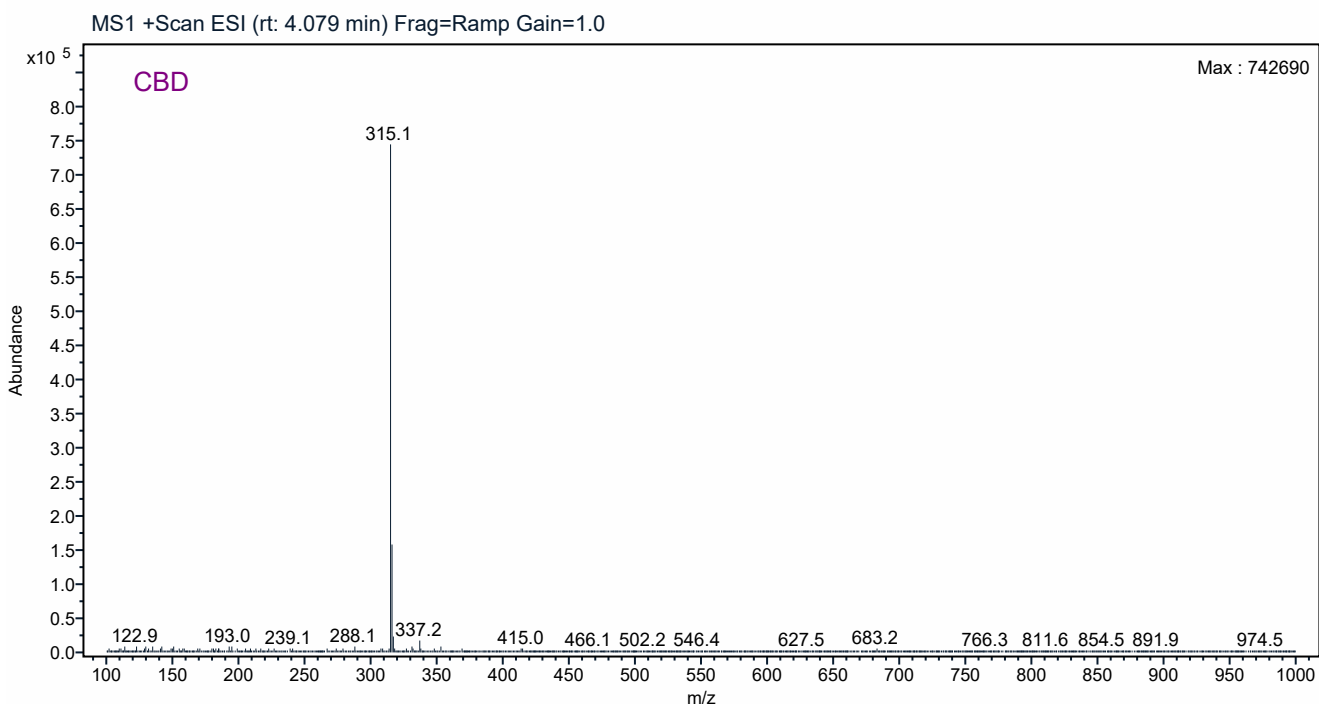
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

4.085



Analysis Report



Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-14 09:32:29-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Hemp.sirslt

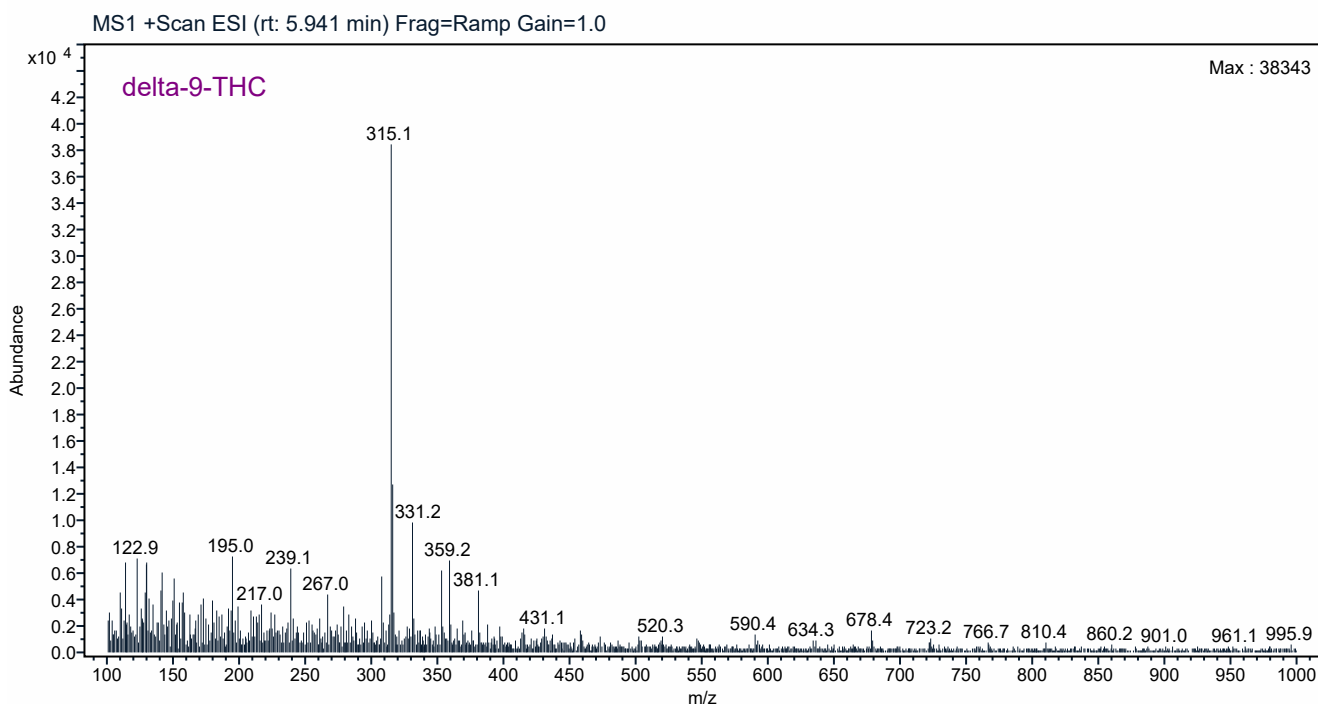
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.943



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.740	0.2052	5802261.9582	1164054.6089	48.3952
4.085	0.2086	5834930.9360	1025829.8603	48.6677
5.943	0.1717	352133.2158	64778.1338	2.9371

Δ^9 THC Screening

Laboratory / Exhibit Number: **Hemp**Date: **8/14/2025**Analyst: **CLD**Page: **69** Δ^9 THC - Manufacturer / Lot Number: **Cerilliant FE06212201**Methanol Lot Number: **24K2761006**Internal Standard Prepared Date: **4/22/25**Pipette(s): **JCL-FC-004** (Sample Preparation) **JCL-FC-002** (Dilution - LC/MS)Analytical Balance: **JCL-FC-011**Sample weight: **100.76** mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard AbundanceStandard Ratio = **1,656,042.0128** / **6,363,340.8348**Standard Ratio = **0.260**

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard AbundanceSample Ratio = **352,133.2158** / **5,802,261.9582**Sample Ratio = **0.061**

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = **0.061** x (100 mg / **100.76** mg)Corrected Sample Ratio = **0.061** x **0.99246**Corrected Sample Ratio = **0.060**

Result:

The Corrected Sample Ratio (**0.060**) is **Less** than the Standard Ratio (**0.260**)Therefore the sample is **Less** than 1% Δ^9 Tetrahydrocannabinol.

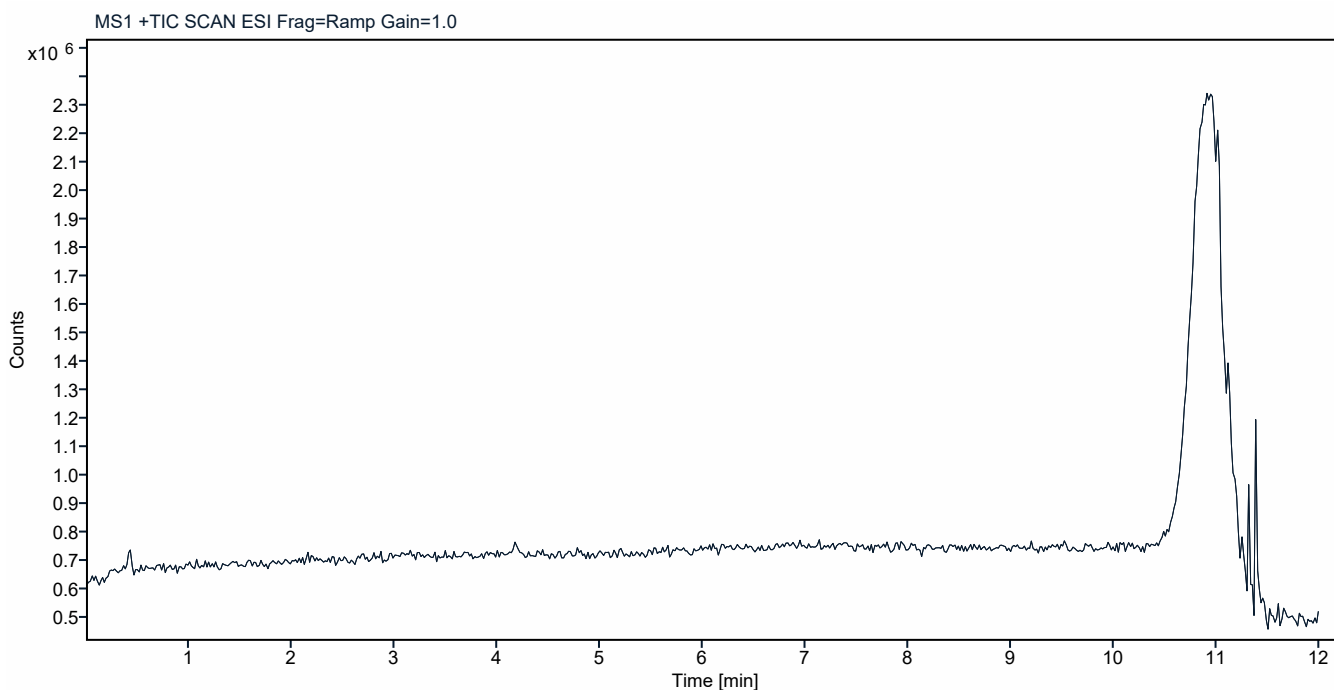
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana1 MeOH:ACN	Injection Data File Name	Marijuana1 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-14 09:59:44-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana1 Blank.sirsl
Processing Method	LC/MS Spectral Deconvolution		

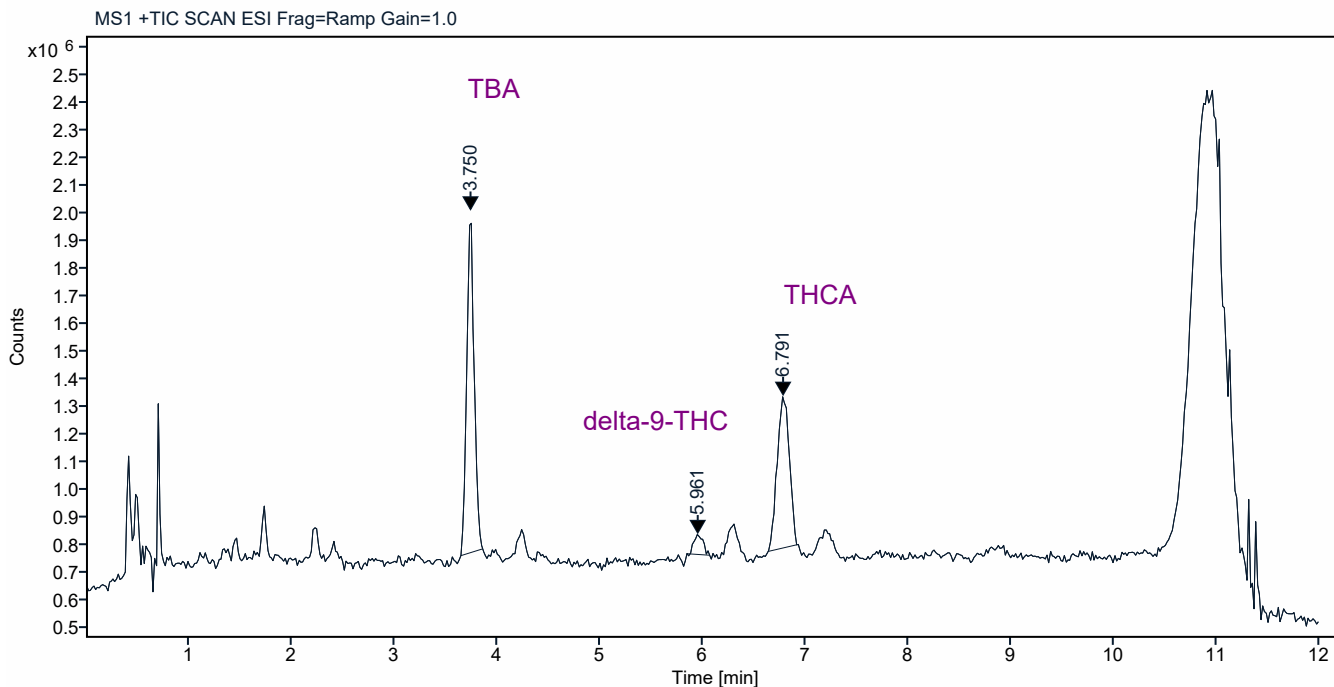


Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:13:20-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana1.sirslt



Analysis Report

WD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

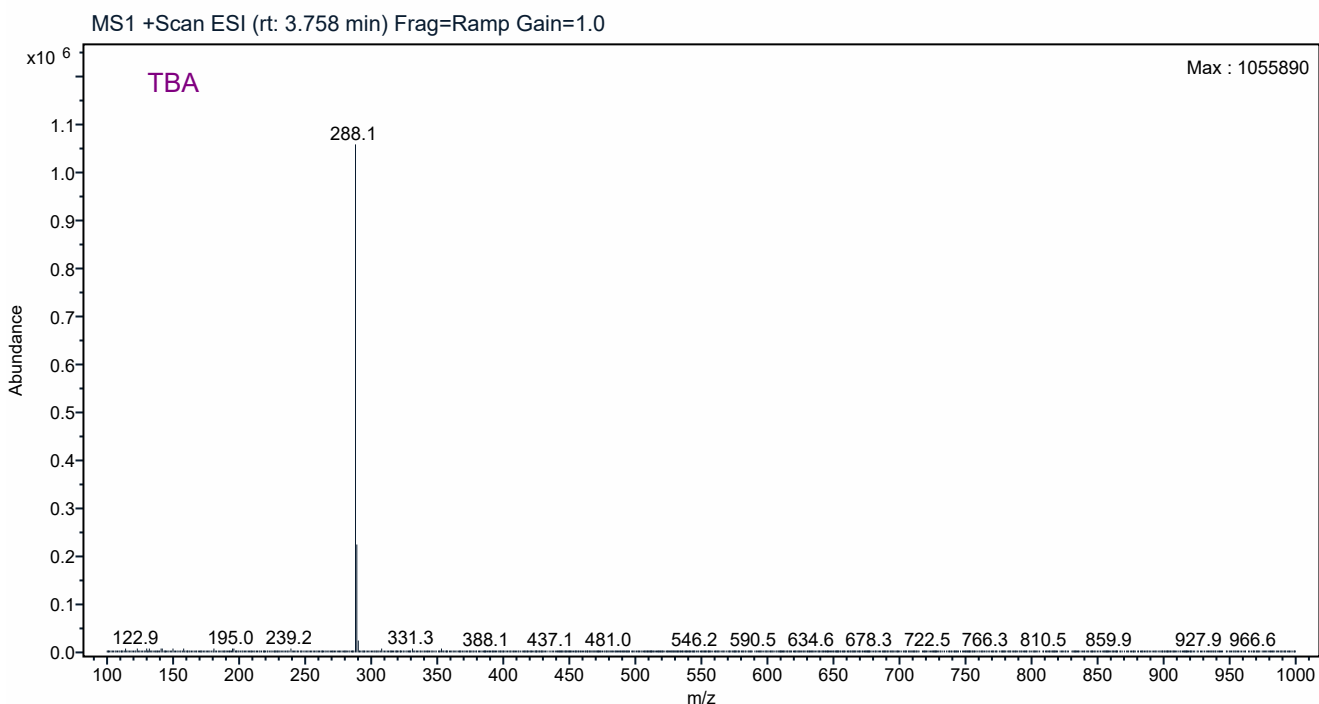
Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:13:20-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana1.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.750



Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

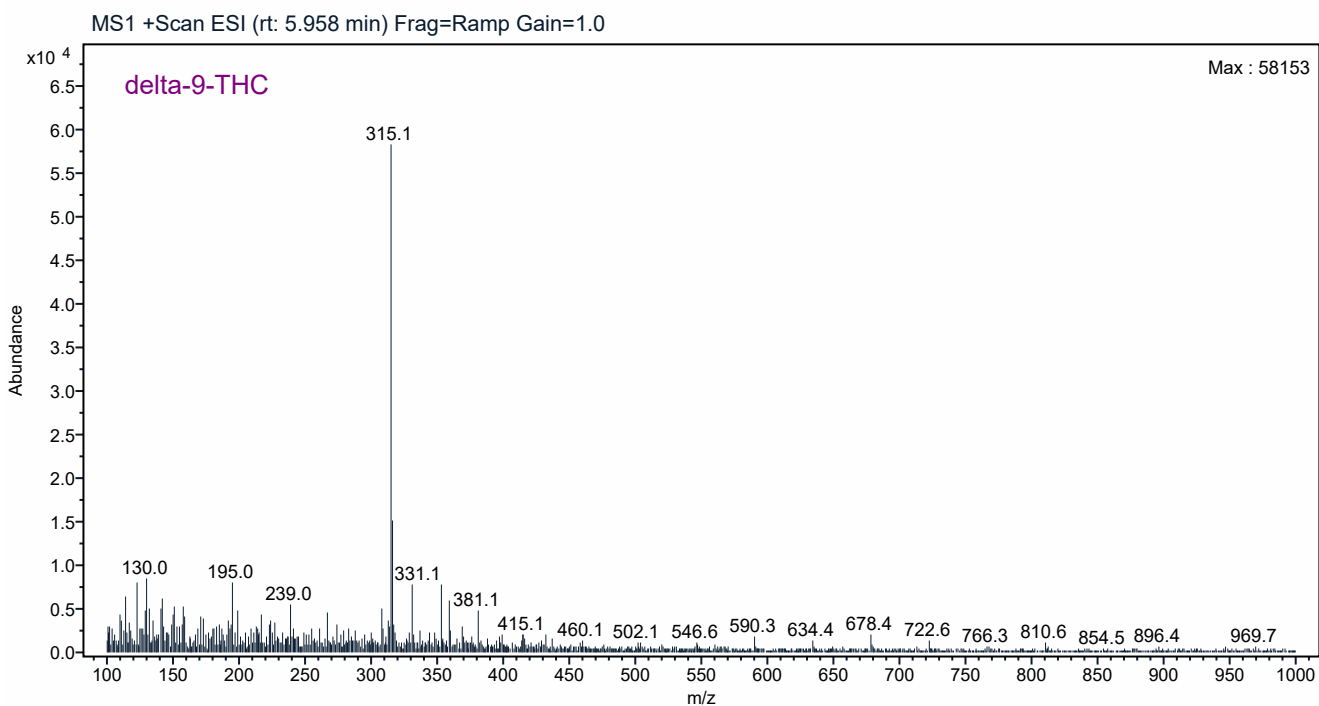
Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:13:20-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana1.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.961



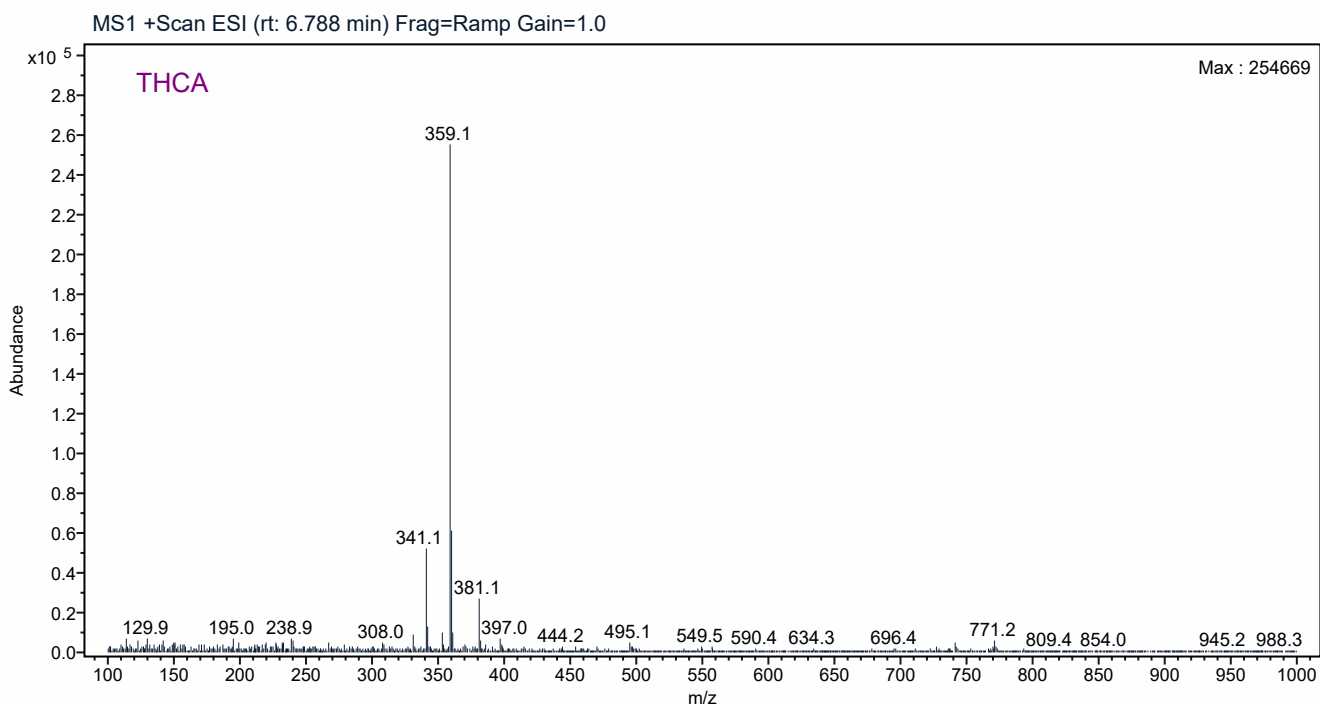
Analysis Report



Sample Name Marijuana 1 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B4
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-14 10:13:20-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana1.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.791



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.750	0.2134	6093066.2616	1236855.4809	55.1008
5.961	0.2206	448886.9375	72595.8081	4.0594
6.791	0.2869	4516077.4342	549051.7946	40.8398

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 1

Date: 8/14/2025

Analyst: CLD

Page: 75

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 100.37 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,656,042.0128 / 6,363,340.8348

Standard Ratio = 0.260

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 448,886.9375 / 6,093,066.2616

Sample Ratio = 0.074

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.074 x (100 mg / 100.37 mg)

Corrected Sample Ratio = 0.074 x 0.99631

Corrected Sample Ratio = 0.073

Result:

The Corrected Sample Ratio (0.073) is Less than the Standard Ratio (0.260)

Therefore the sample is Less than 1% Δ^9 Tetrahydrocannabinol.

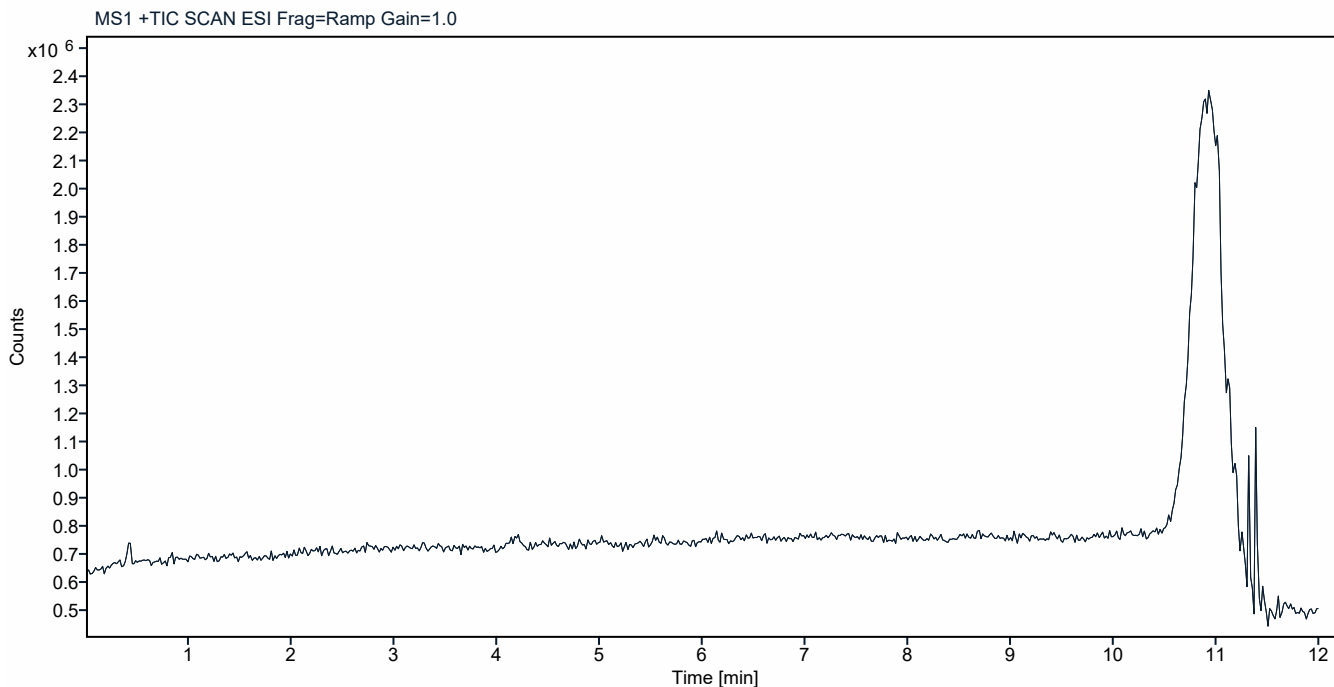
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana2 MeOH:ACN	Injection Data File Name	Marijuana2 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-14 10:40:35-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana2 Blank.sirsl
Processing Method	LC/MS Spectral Deconvolution		

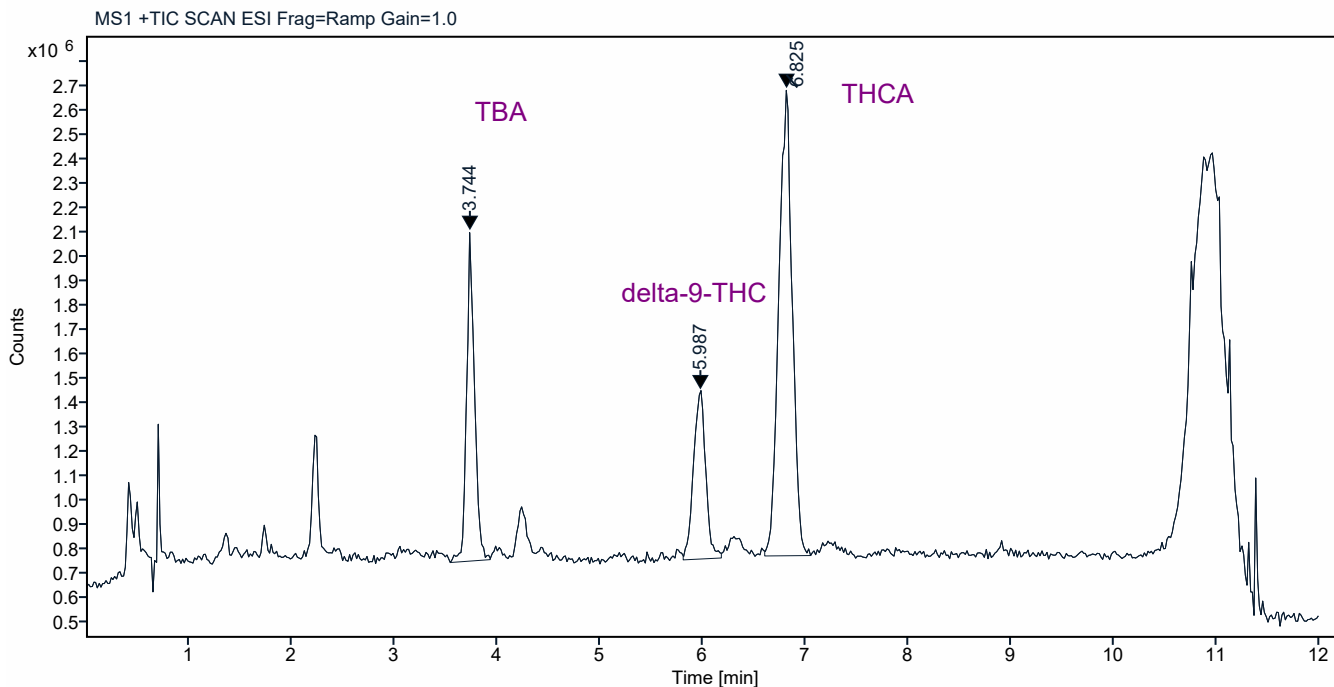


Analysis Report

CD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:54:10-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana2.sirslt



Analysis Report

WD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

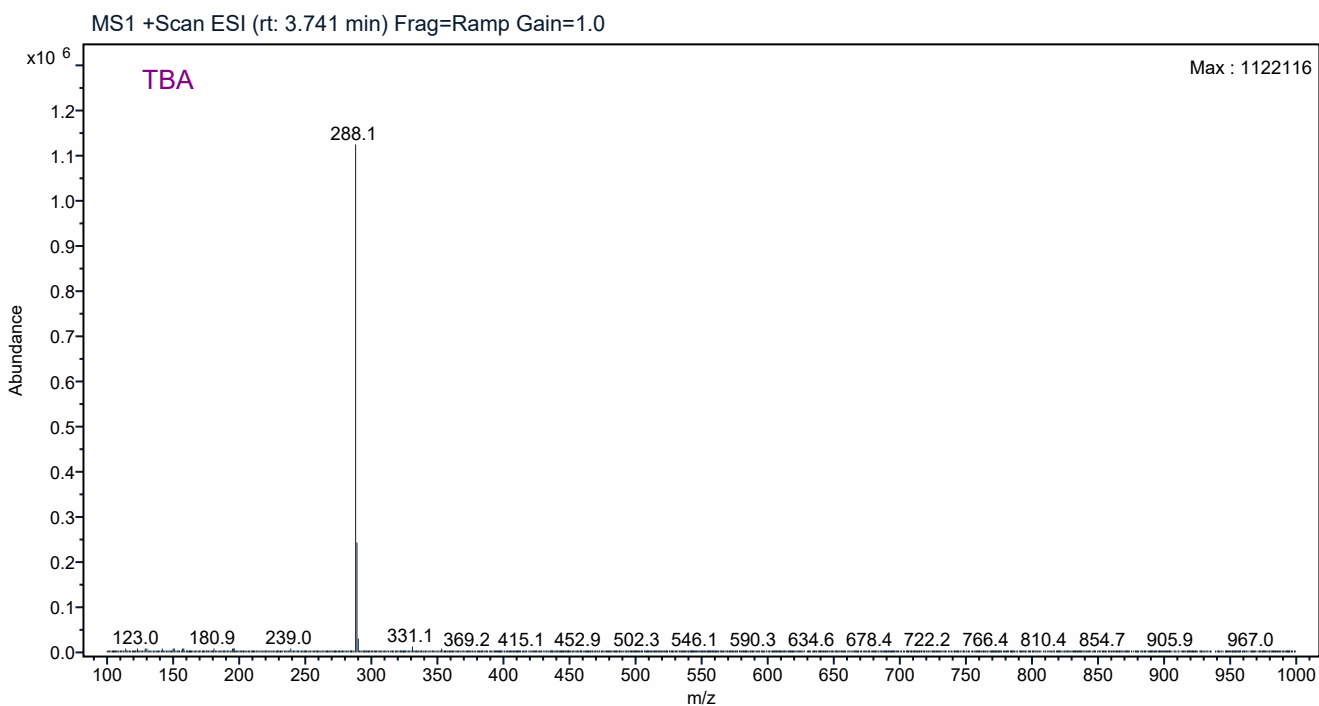
Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:54:10-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana2.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.744



Analysis Report

WD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

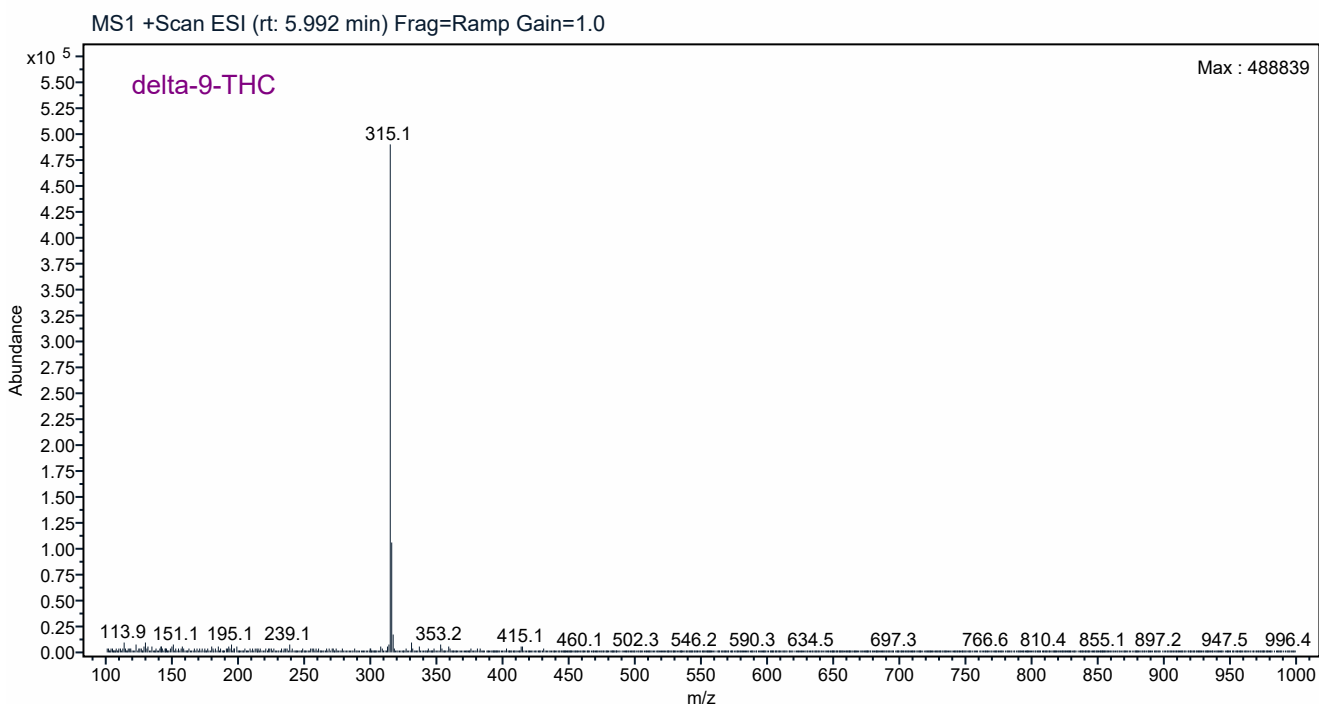
Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 10:54:10-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana2.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.987



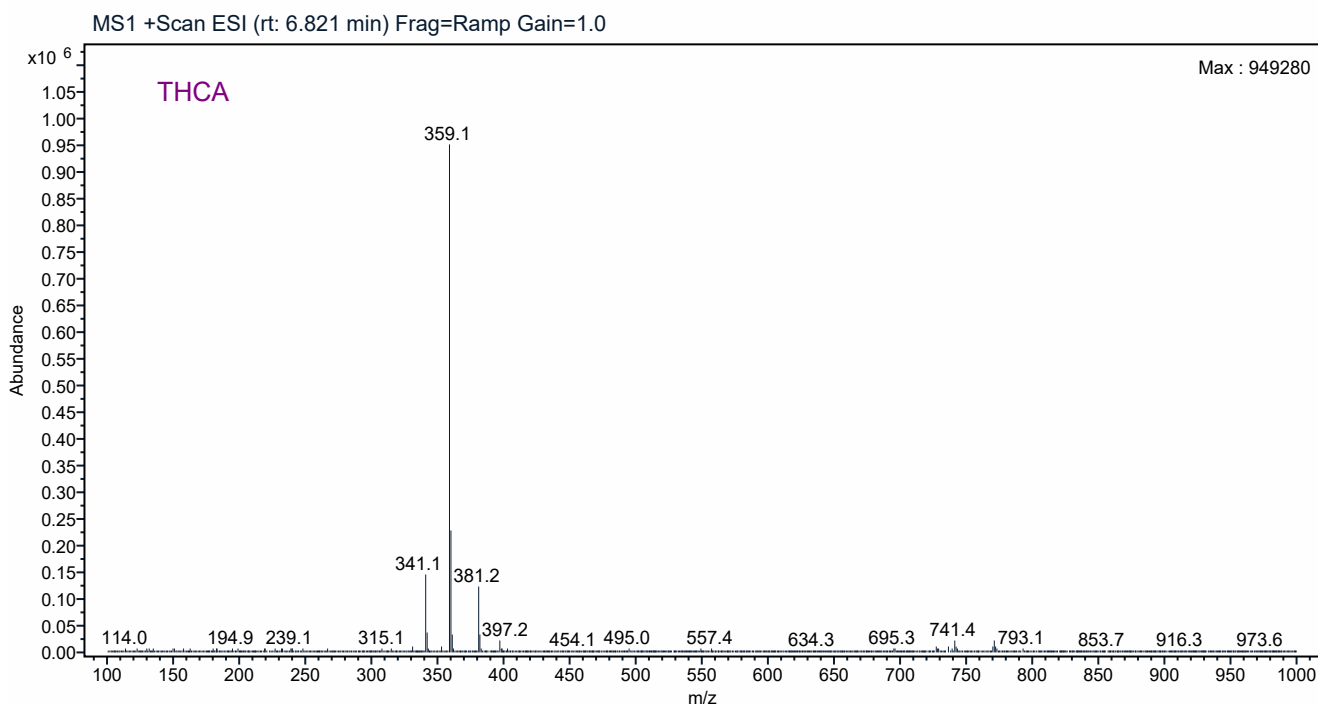
Analysis Report



Sample Name Marijuana 2 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B5
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana2.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-14 10:54:10-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana2.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.825



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.744	0.3867	7205141.5582	1358195.8877	23.7568
5.987	0.3715	5700962.7404	695893.6482	18.7972
6.825	0.4458	17422644.7684	1919191.1936	57.4460

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 2

Date: 8/14/2025

Analyst: CLD

Page: 81

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.58 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,656,042.0128 / 6,363,340.8348

Standard Ratio = 0.260

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 5,700,962.7404 / 7,205,141.5582

Sample Ratio = 0.791

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.791 x (100 mg / 99.58 mg)

Corrected Sample Ratio = 0.791 x 1.00422

Corrected Sample Ratio = 0.795

Result:

The Corrected Sample Ratio (0.795) is Greater than the Standard Ratio (0.260)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

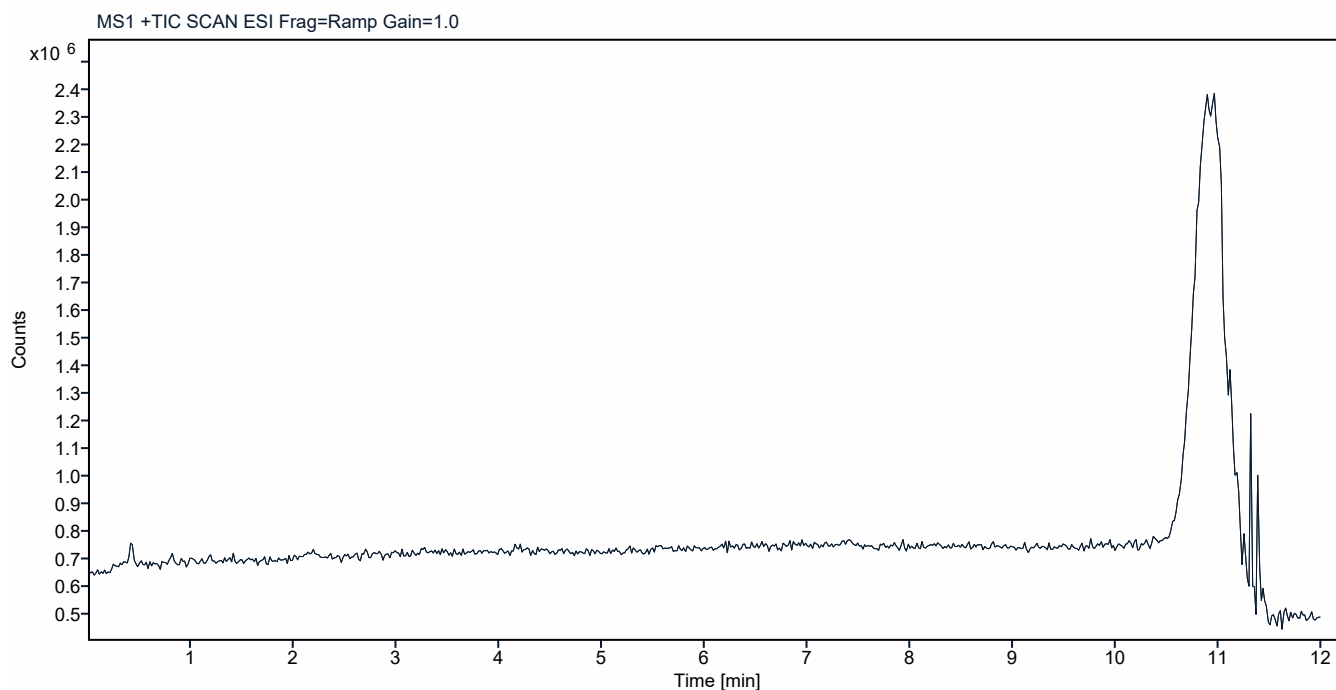
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
 1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana3 MeOH:ACN	Injection Data File Name	Marijuana3 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-14 11:21:25-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana3 Blank.sirsl
Processing Method	LC/MS Spectral Deconvolution		

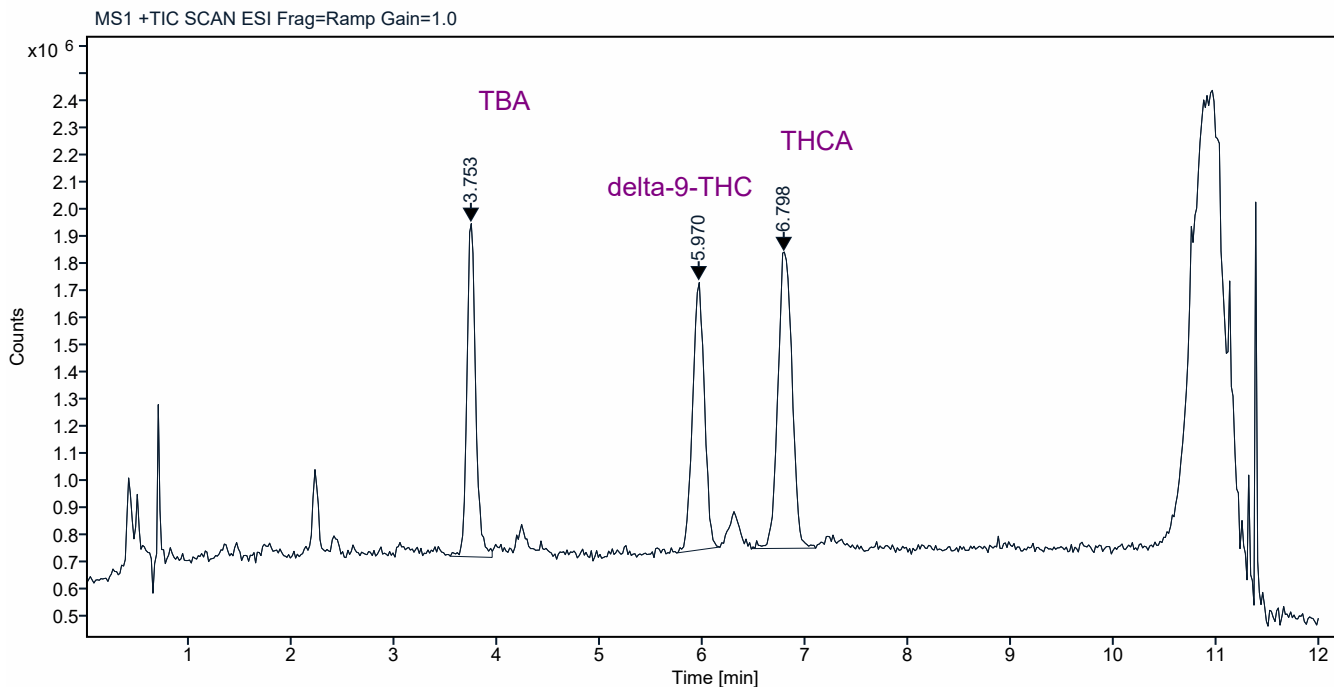


Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 11:35:01-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana3.sirsl



Analysis Report

WD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

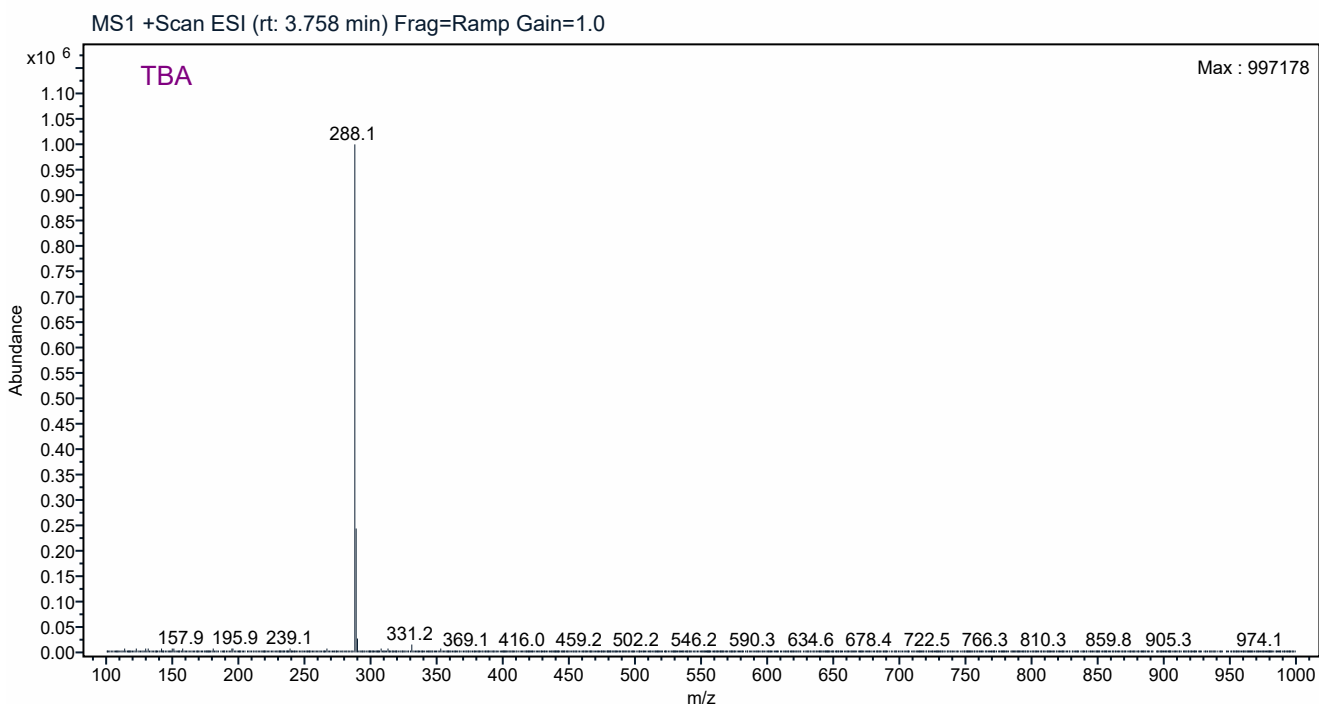
Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 11:35:01-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana3.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.753



Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

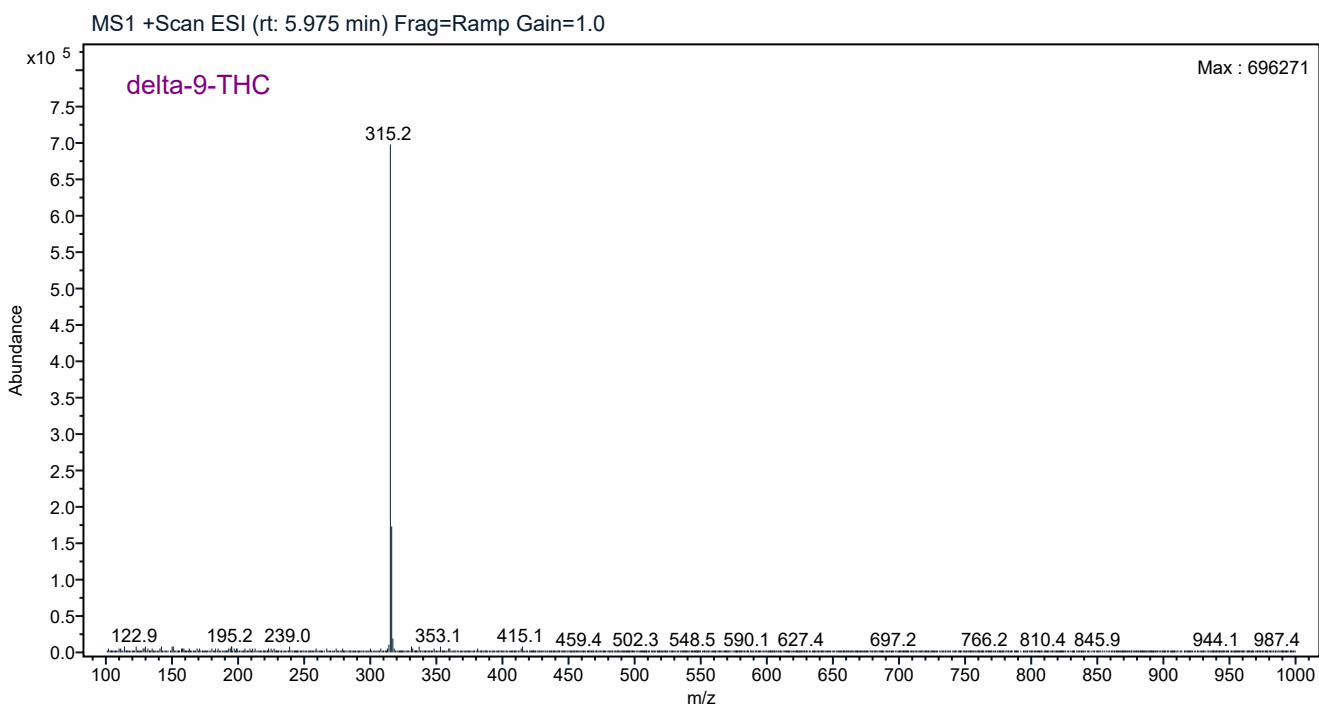
Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-14 11:35:01-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana3.sirslt

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.970



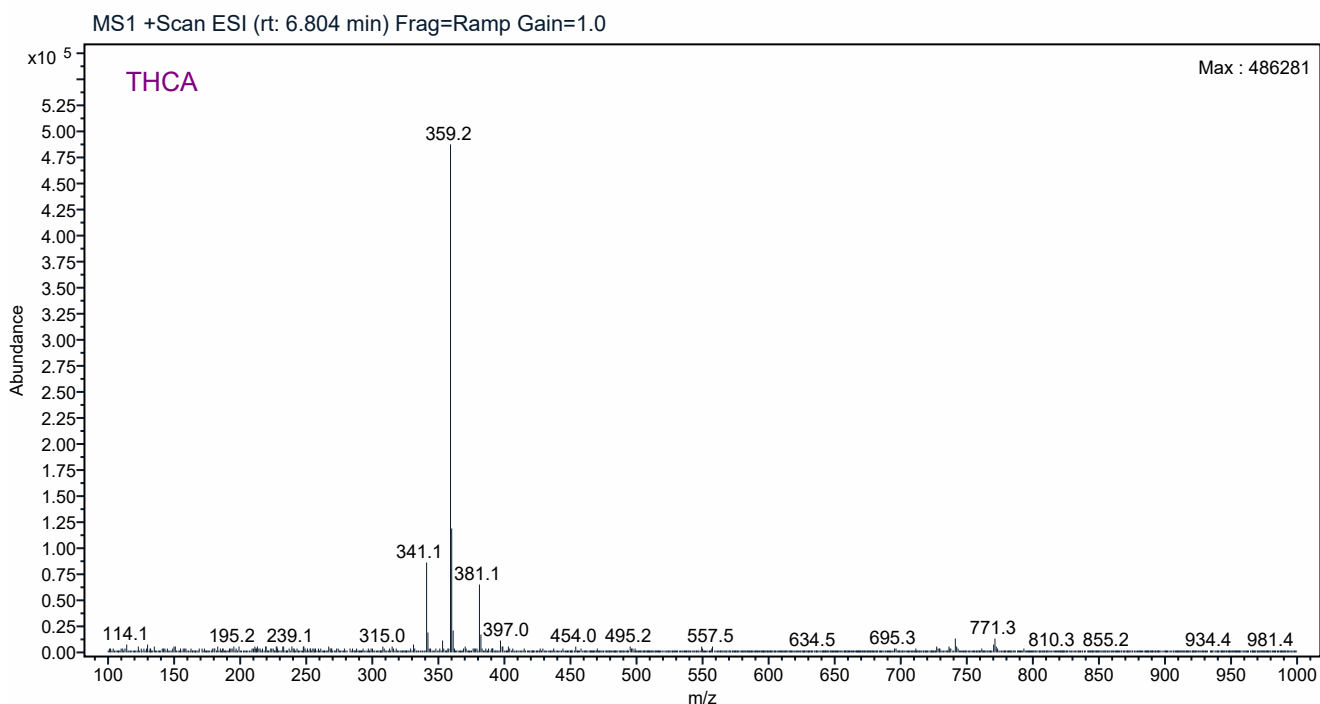
Analysis Report



Sample Name Marijuana 3 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B6
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-14 11:35:01-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-14-25\Marijuana3.sirsl
 t

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.798



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.753	0.4059	7273176.8718	1233502.3692	28.2725
5.970	0.4174	7914843.3851	992952.1179	30.7668
6.798	0.6215	10537266.0374	1094757.4252	40.9607

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 3

Date: 8/14/2025

Analyst: CLD

Page: 87

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.93 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,656,042.0128 / 6,363,340.8348

Standard Ratio = 0.260

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 7,914,843.3851 / 7,273,176.8718

Sample Ratio = 1.088

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 1.088 x (100 mg / 99.93 mg)

Corrected Sample Ratio = 1.088 x 1.00070

Corrected Sample Ratio = 1.089

Result:

The Corrected Sample Ratio (1.089) is Greater than the Standard Ratio (0.260)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

CD

Appendix D

Data and Calculations from 08/15/25

Analysis Report

CD

Sample Name Blank 8-13-25 1% THC Calibrator
MeOH:ACN

Instrument Dolly
Name

Sample Vial P1-B1
Number

Injection Volume 3.000

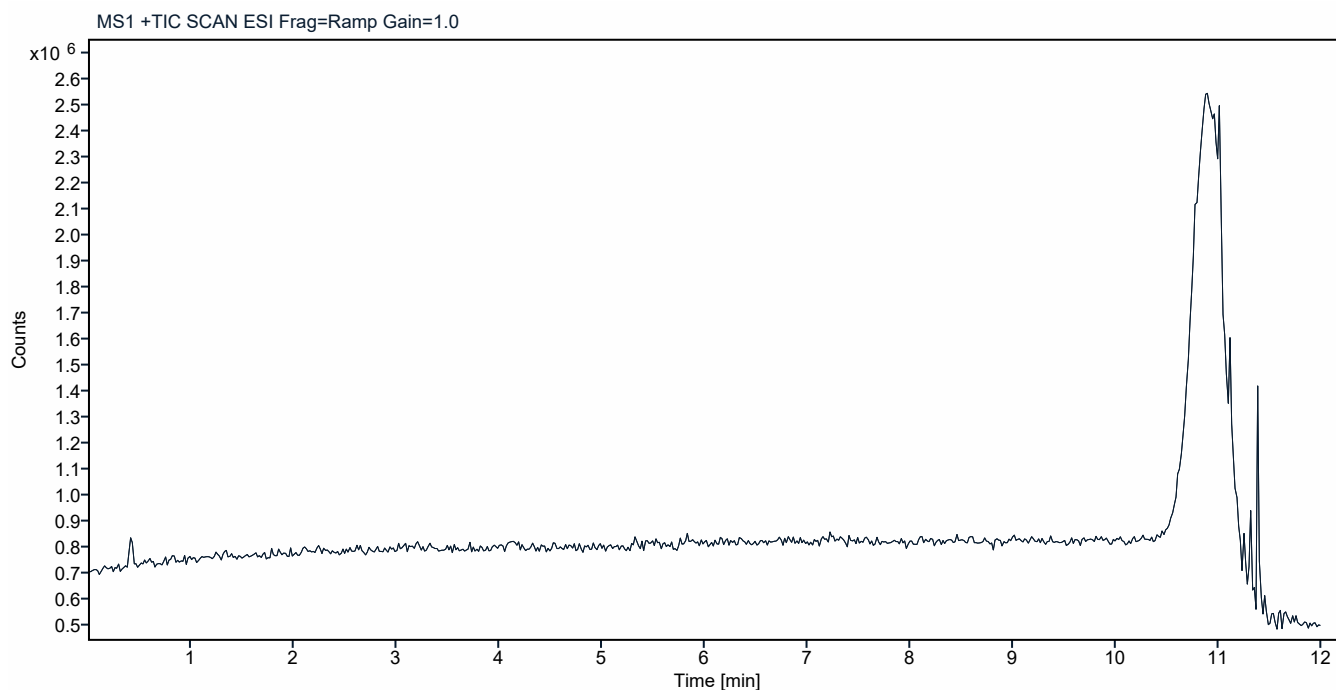
Processing Method: LC/MS Spectral Deconvolution

Injection Data File THC Blank.dx
Name

Injection Acq Cannabis Method Raptor.amx
Method Name

Injection Acquired 2025-08-15 08:36:20-05:00
Date

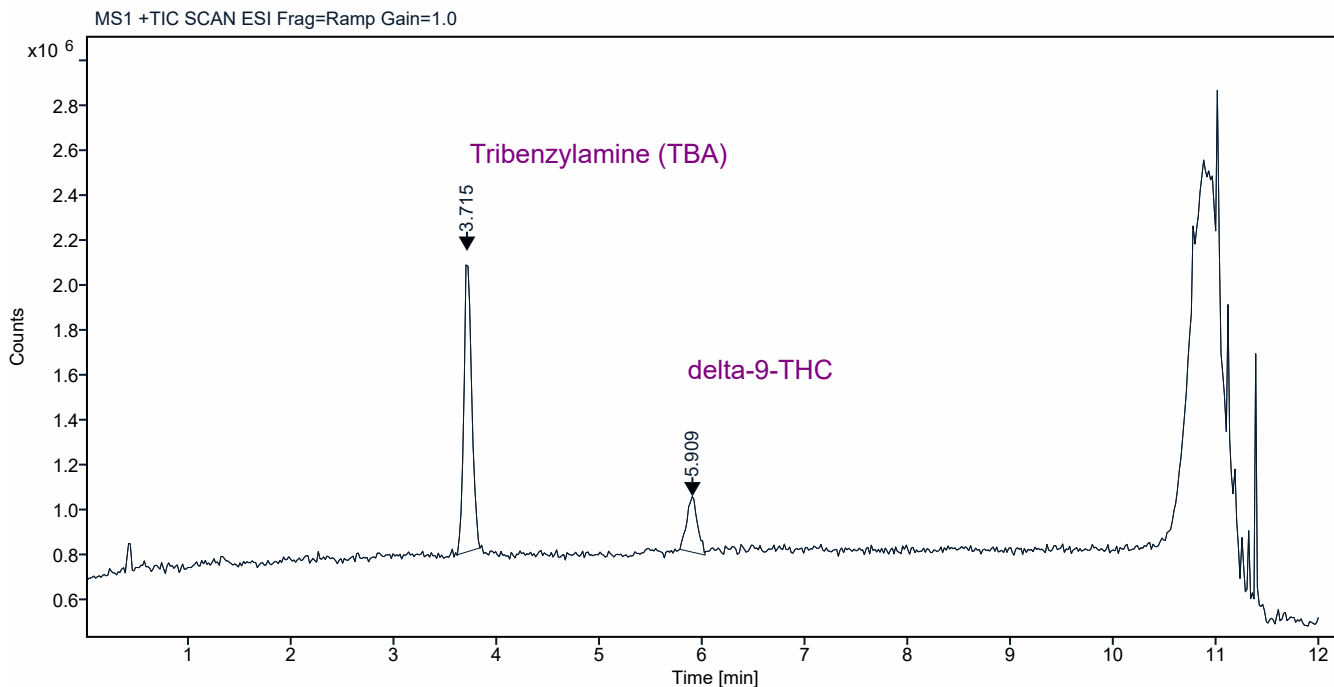
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
15-25\THC Blank.sirsl



Analysis Report

CD

Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File Name	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-15 08:49:56-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\THC.sirslt
Processing Method	LC/MS Spectral Deconvolution		



Analysis Report

CD

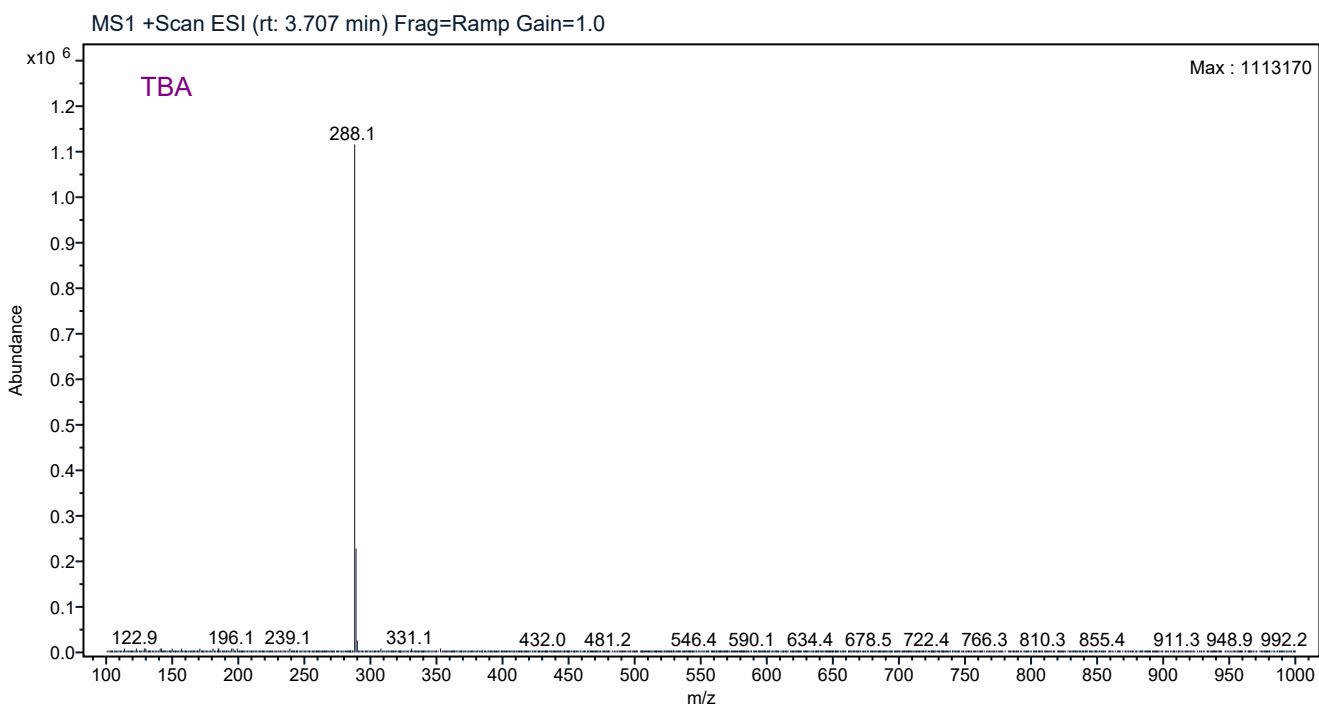
Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File Name	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-15 08:49:56-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\THC.sirsl
Processing Method	LC/MS Spectral Deconvolution		

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.715

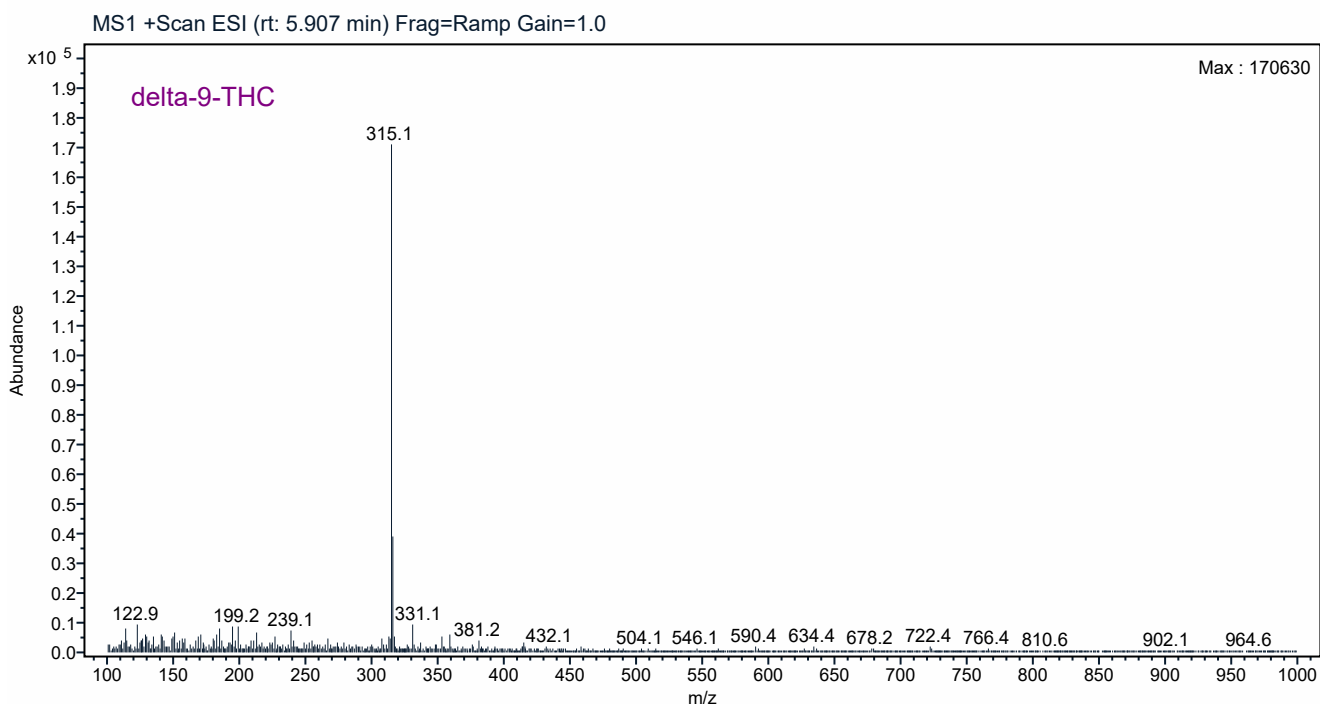


Analysis Report



Sample Name	1% THC Calibrator MeOH:ACN Made 8-13-25	Injection Data File	THC.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B2	Injection Acquired Date	2025-08-15 08:49:56-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\THC.sirslr
Processing Method: LC/MS Spectral Deconvolution			

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 5.909



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.715	0.2228	6864341.1837	1339536.4940	79.3204
5.909	0.2461	1789602.8571	247733.2152	20.6796

Analysis Report

CD

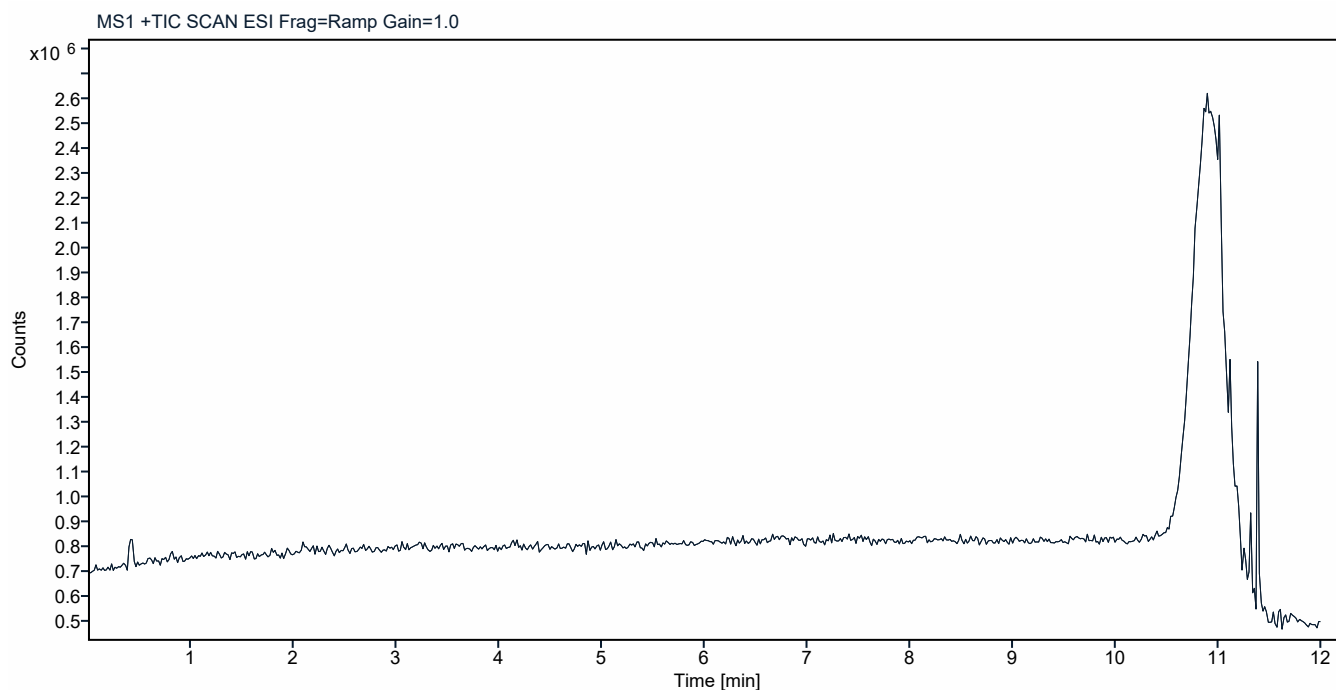
Sample Name Blank 8-13-25 Hemp MeOH:ACN

Injection Data File Hemp Blank.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B1
NumberInjection Acquired 2025-08-15 09:17:11-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Hemp Blank.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

CD

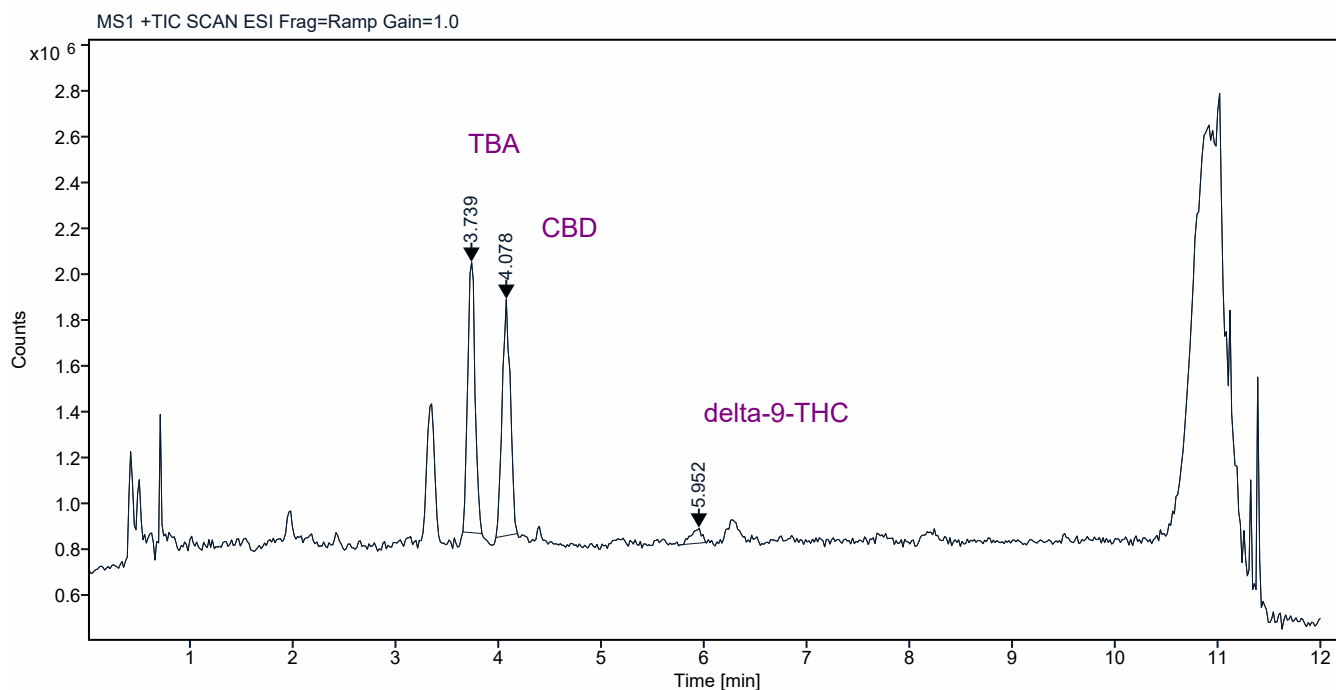
Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-15 09:30:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Hemp.sirslt

Processing Method: LC/MS Spectral Deconvolution



Analysis Report

WD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-15 09:30:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Hemp.sirsl
t

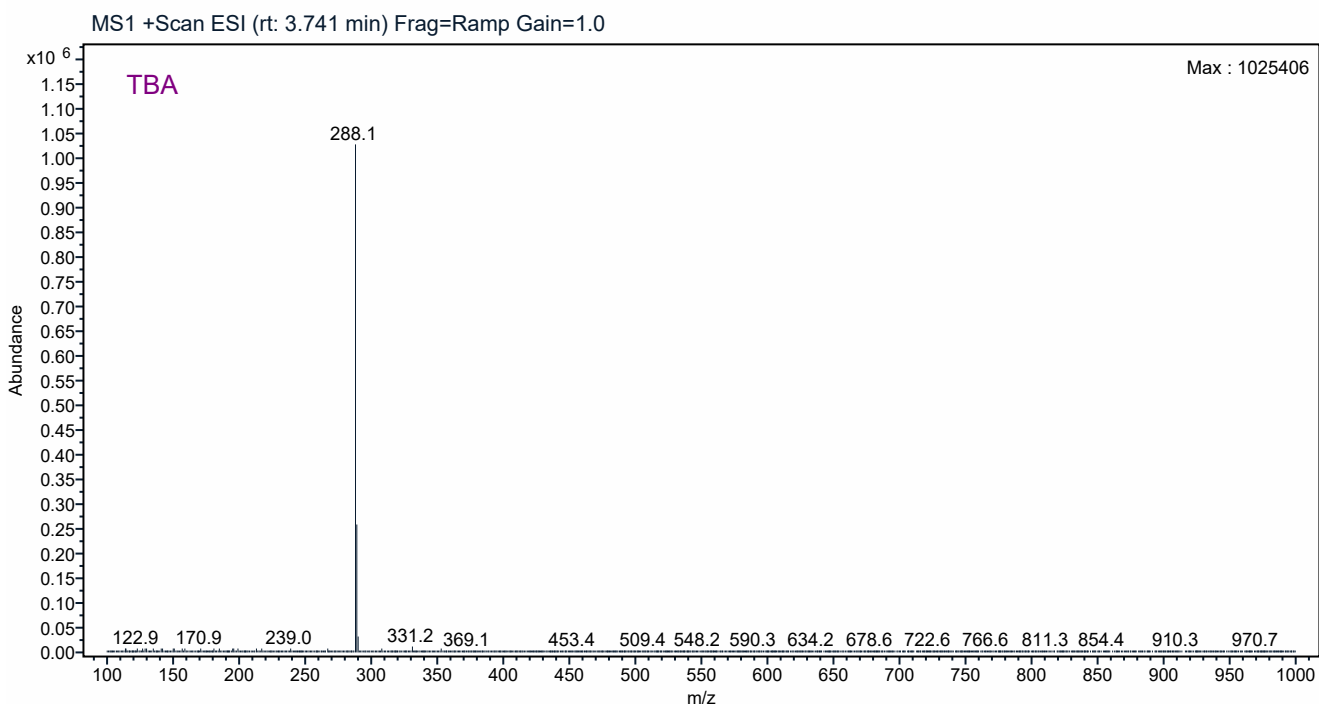
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

3.739



Analysis Report

CD

Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-15 09:30:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Hemp.sirslt

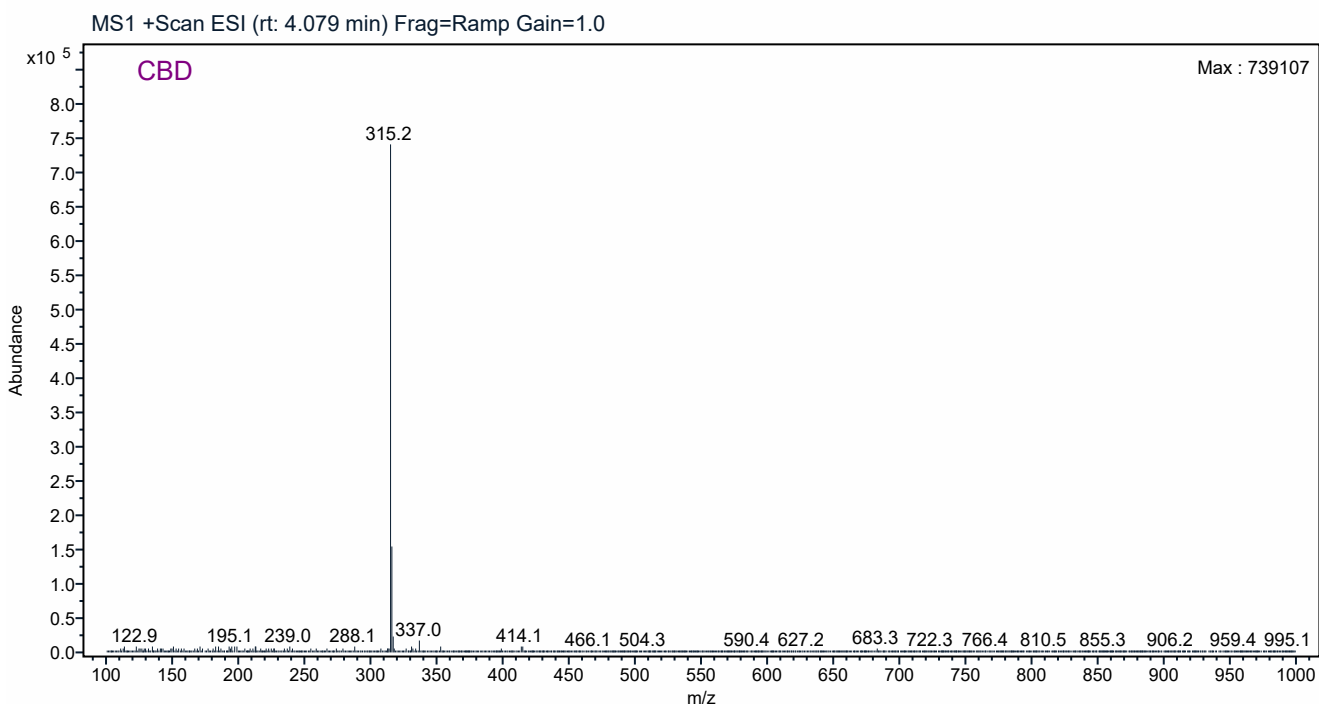
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

4.078



Analysis Report



Sample Name Hemp MeOH:ACN

Injection Data File Hemp.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B3
NumberInjection Acquired 2025-08-15 09:30:46-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Hemp.sirslt

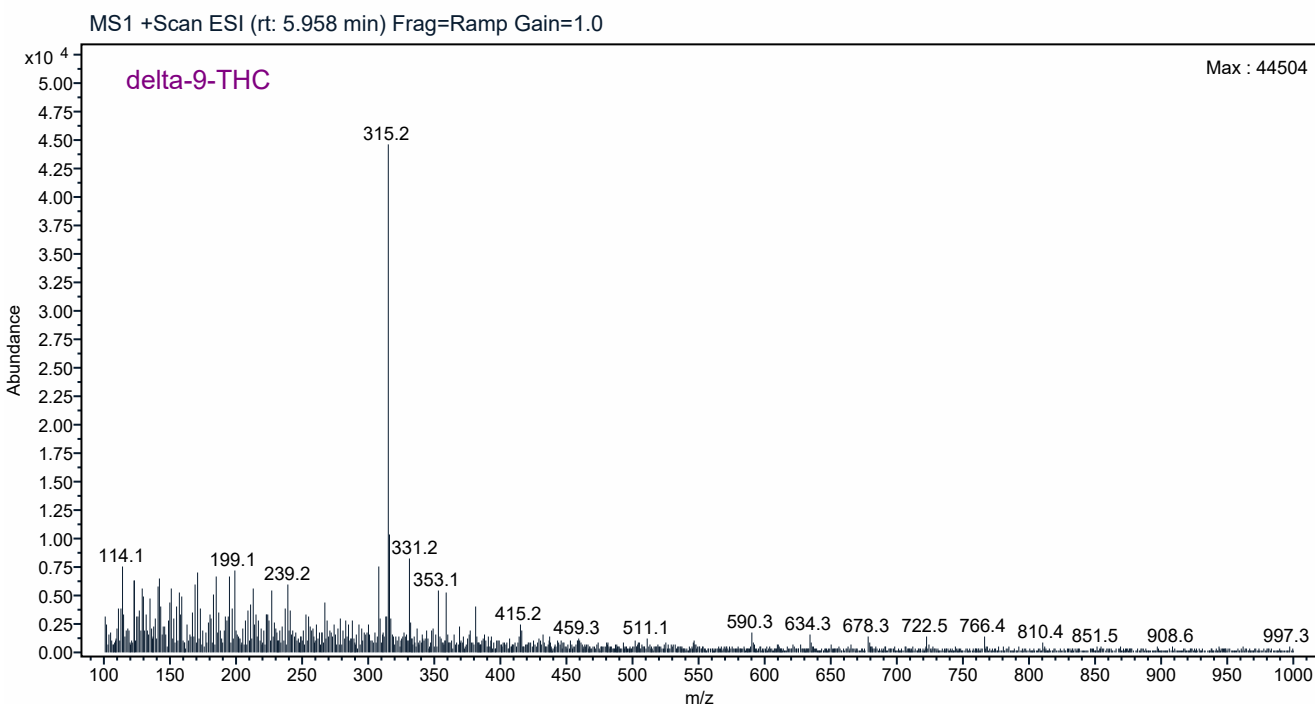
Processing Method: LC/MS Spectral Deconvolution

Signal Name

MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

Peak Retention Time

5.952



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.739	0.1872	5916678.2092	1181060.3513	49.0234
4.078	0.2103	5684906.1315	1032099.6262	47.1030
5.952	0.2250	467516.9607	66685.6000	3.8737

Δ^9 THC Screening

Laboratory / Exhibit Number: **Hemp**Date: **8/15/2025**Analyst: **CLD**Page: **98** Δ^9 THC - Manufacturer / Lot Number: **Cerilliant FE06212201**Methanol Lot Number: **24K2761006**Internal Standard Prepared Date: **4/22/25**Pipette(s): **JCL-FC-004** (Sample Preparation) **JCL-FC-002** (Dilution - LC/MS)Analytical Balance: **JCL-FC-011**Sample weight: **100.76** mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard AbundanceStandard Ratio = **1,789,602.8571** / **6,864,341.1837**Standard Ratio = **0.261**

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard AbundanceSample Ratio = **467,516.9607** / **5,916,678.2092**Sample Ratio = **0.079**

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = **0.079** x (100 mg / **100.76** mg)Corrected Sample Ratio = **0.079** x **0.99246**Corrected Sample Ratio = **0.078**

Result:

The Corrected Sample Ratio (**0.078**) is **Less** than the Standard Ratio (**0.261**)Therefore the sample is **Less** than 1% Δ^9 Tetrahydrocannabinol.

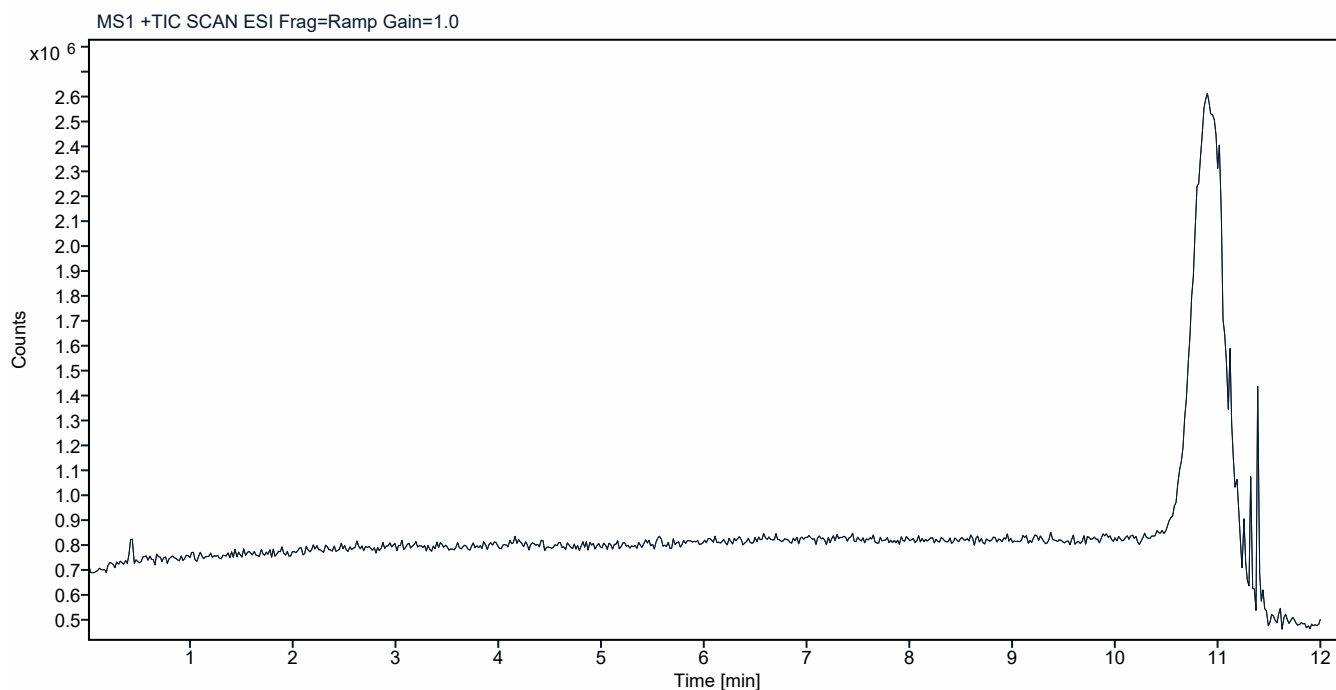
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana1 MeOH:ACN	Injection Data File Name	Marijuana1 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-15 09:58:00-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana1 Blank.sirsl
Processing Method: LC/MS Spectral Deconvolution			

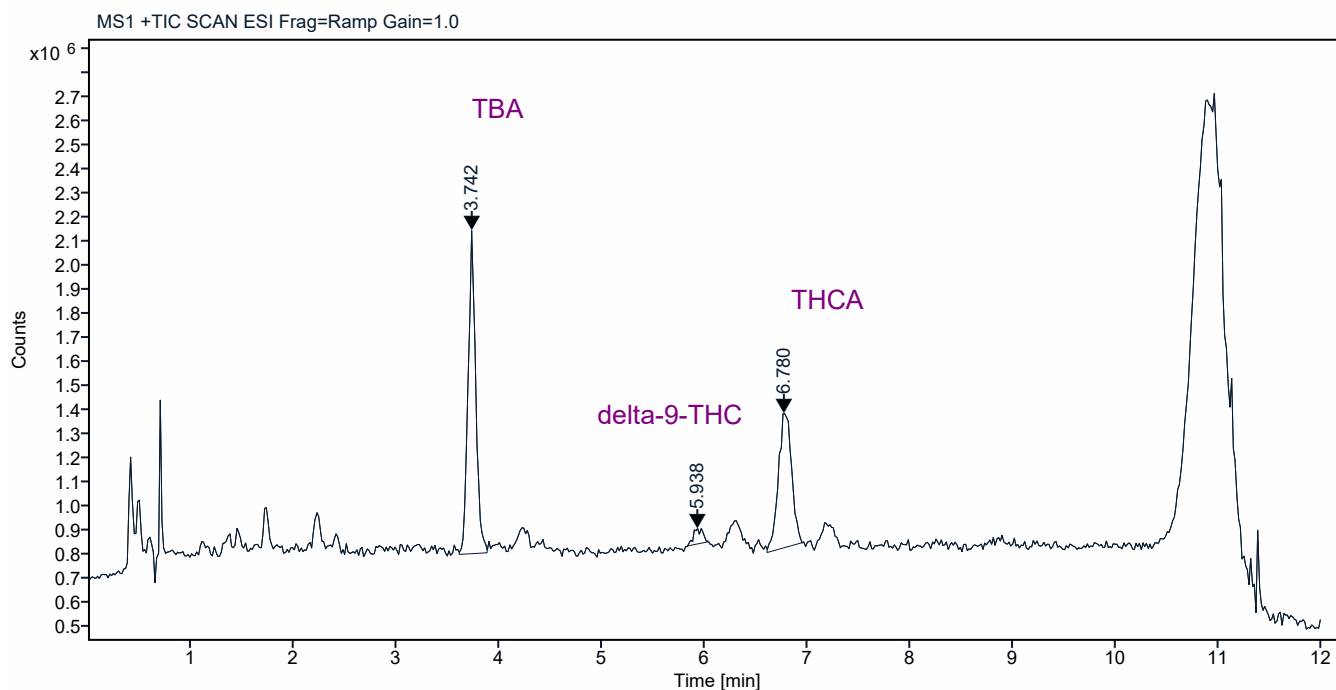


Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:11:36-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana1.sirsl



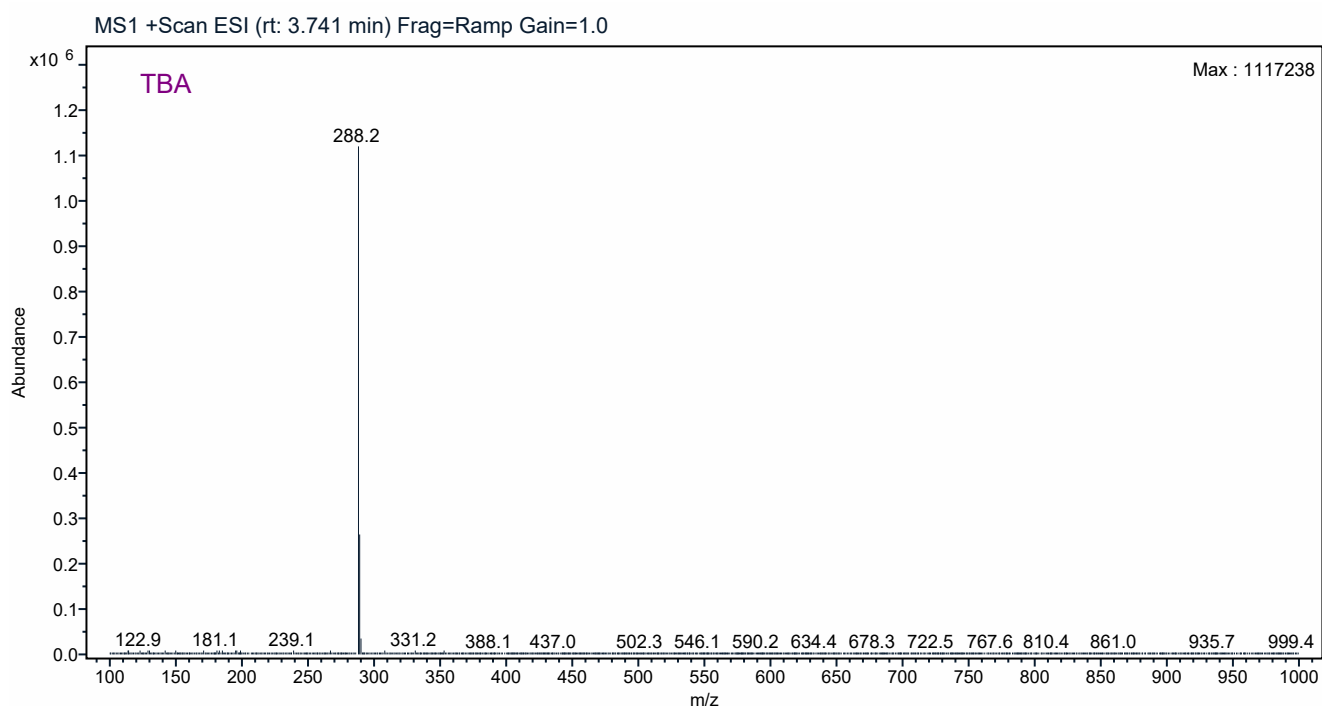
Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:11:36-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana1.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 3.742



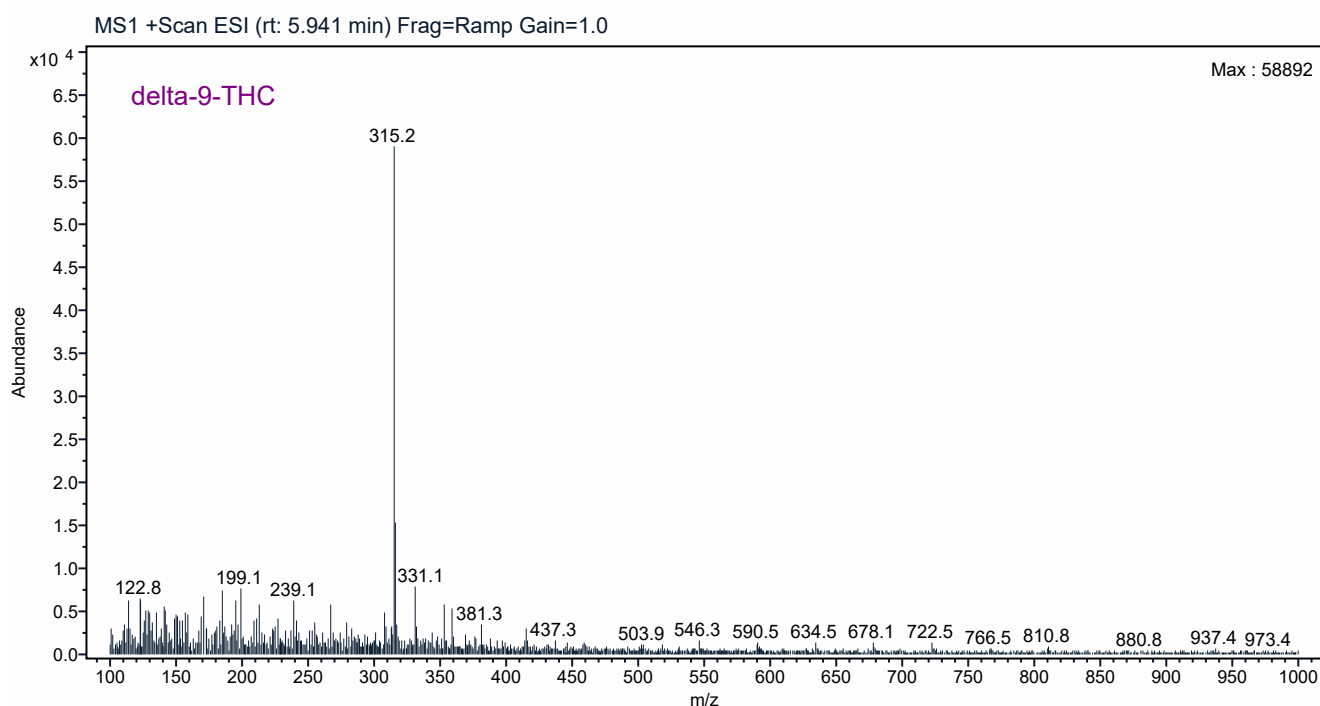
Analysis Report

CD

Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:11:36-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana1.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 Peak Retention Time 5.938



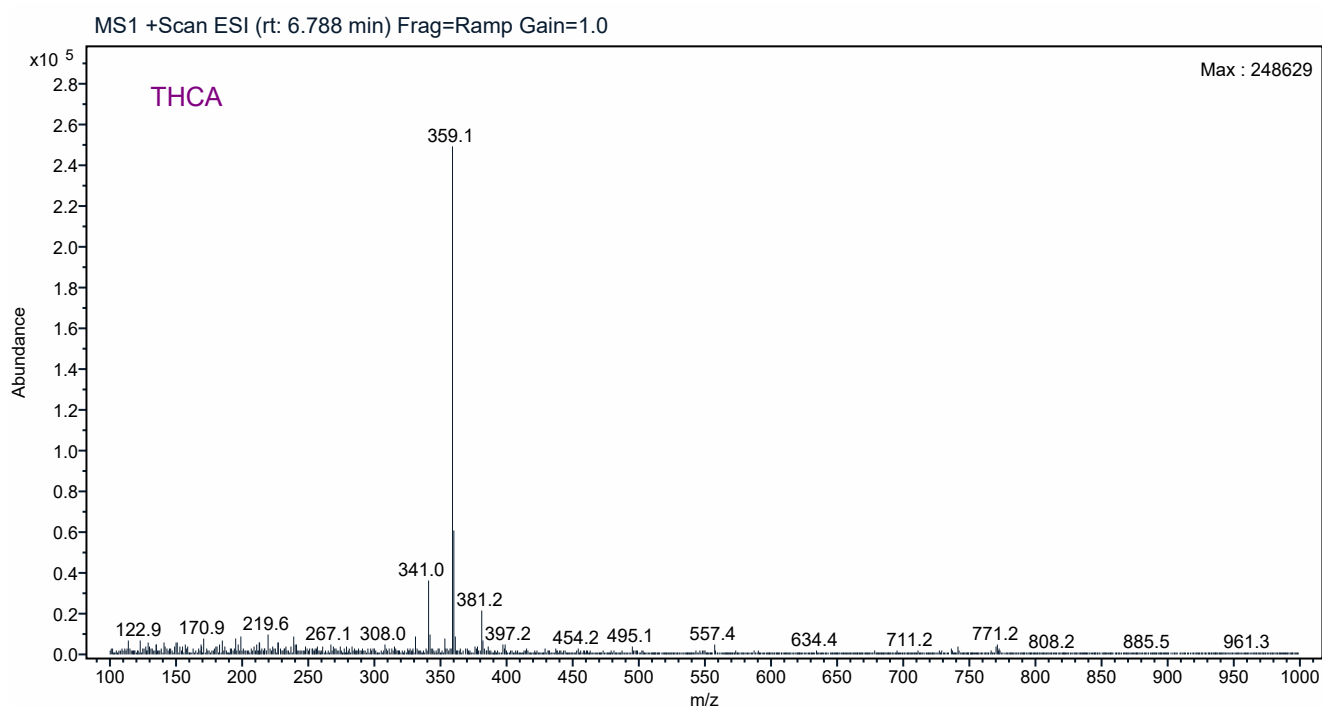
Analysis Report



Sample Name Marijuana 1 MeOH:ACN
Instrument Dolly
Sample Vial P1-B4
Number
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana1.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:11:36-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana1.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.780



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.742	0.2703	6910765.8439	1343642.8861	56.0477
5.938	0.2026	402754.5699	64475.8703	3.2664
6.780	0.3452	5016629.5638	558808.6011	40.6859

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 1

Date: 8/15/2025

Analyst: CLD

Page: 104

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 100.37 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,789,602.8571 / 6,864,341.1837

Standard Ratio = 0.261

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 402,754.5699 / 6,910,765.8439

Sample Ratio = 0.058

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.058 x (100 mg / 100.37 mg)

Corrected Sample Ratio = 0.058 x 0.99631

Corrected Sample Ratio = 0.058

Result:

The Corrected Sample Ratio (0.058) is Less than the Standard Ratio (0.261)

Therefore the sample is Less than 1% Δ^9 Tetrahydrocannabinol.

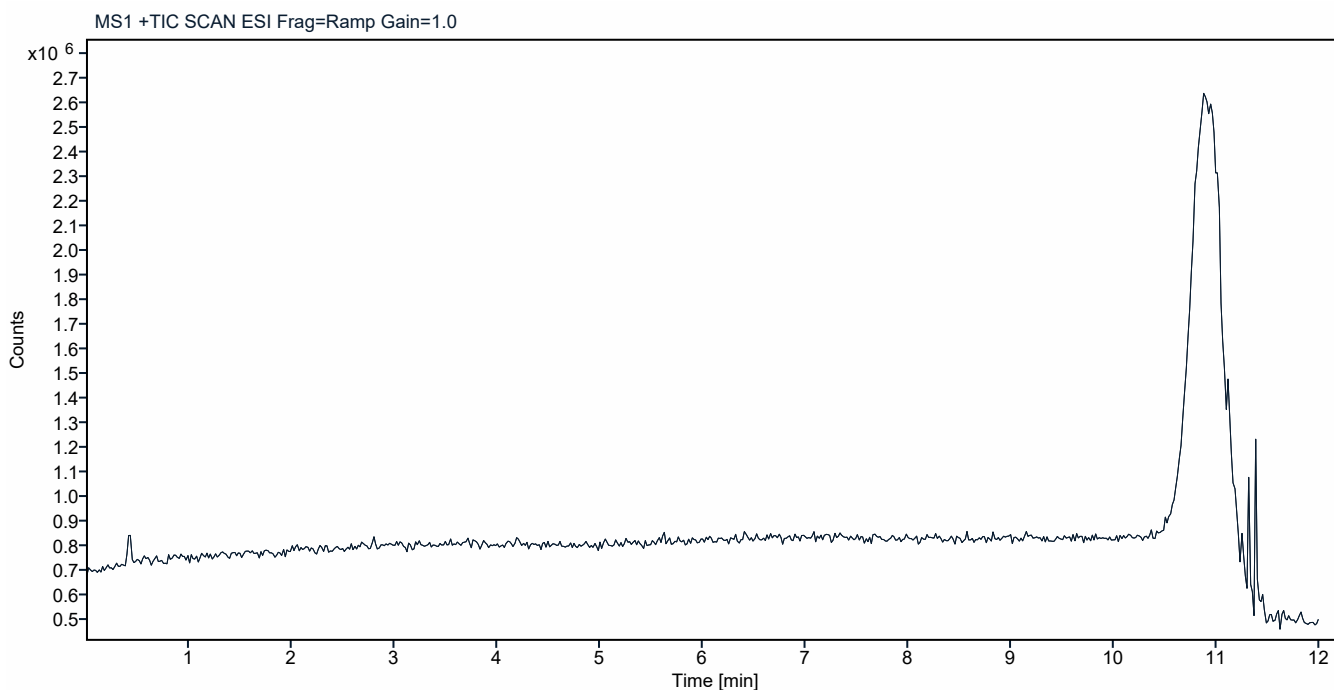
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana2 MeOH:ACN	Injection Data File Name	Marijuana2 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-15 10:38:50-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana2 Blank.sirsl
Processing Method: LC/MS Spectral Deconvolution			



Analysis Report

CD

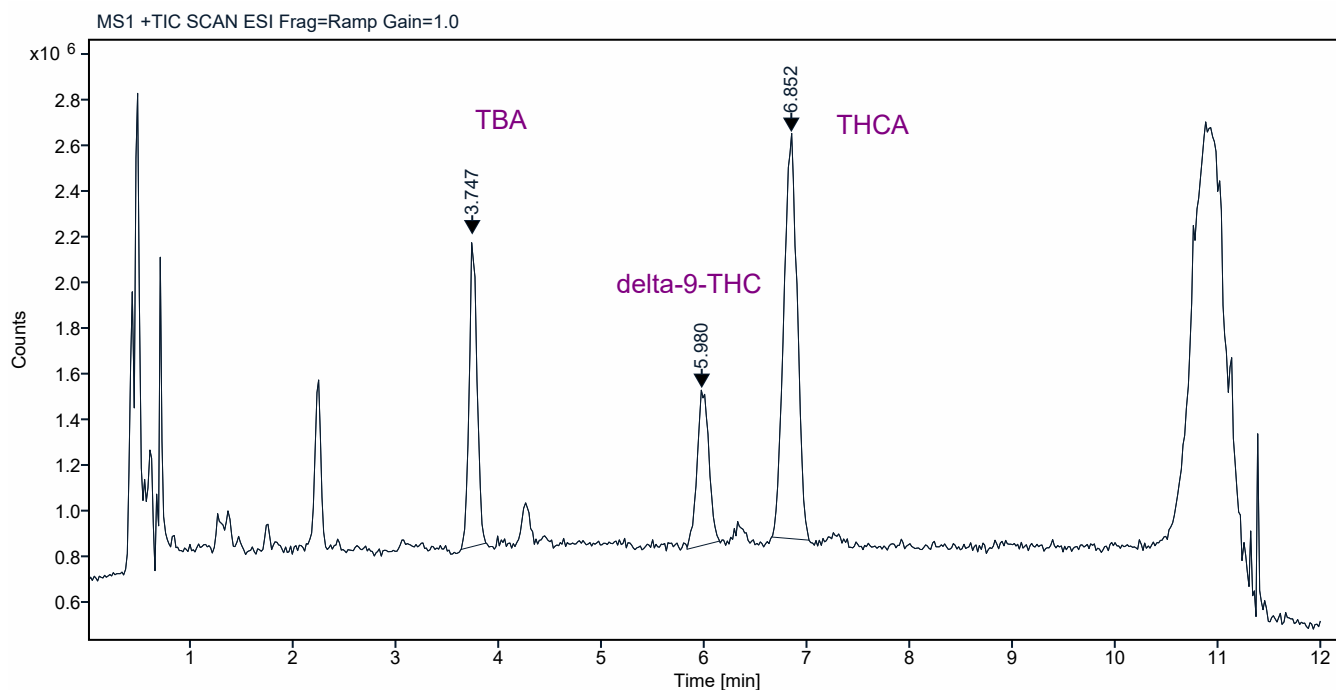
Sample Name Marijuana 2 MeOH:ACN

Injection Data File Marijuana2.dx
NameInstrument Dolly
NameInjection Acq Cannabis Method Raptor.amx
Method NameSample Vial P1-B5
NumberInjection Acquired 2025-08-15 10:52:26-05:00
Date

Injection Volume 3.000

Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-
15-25\Marijuana2.sirsl

Processing Method: LC/MS Spectral Deconvolution



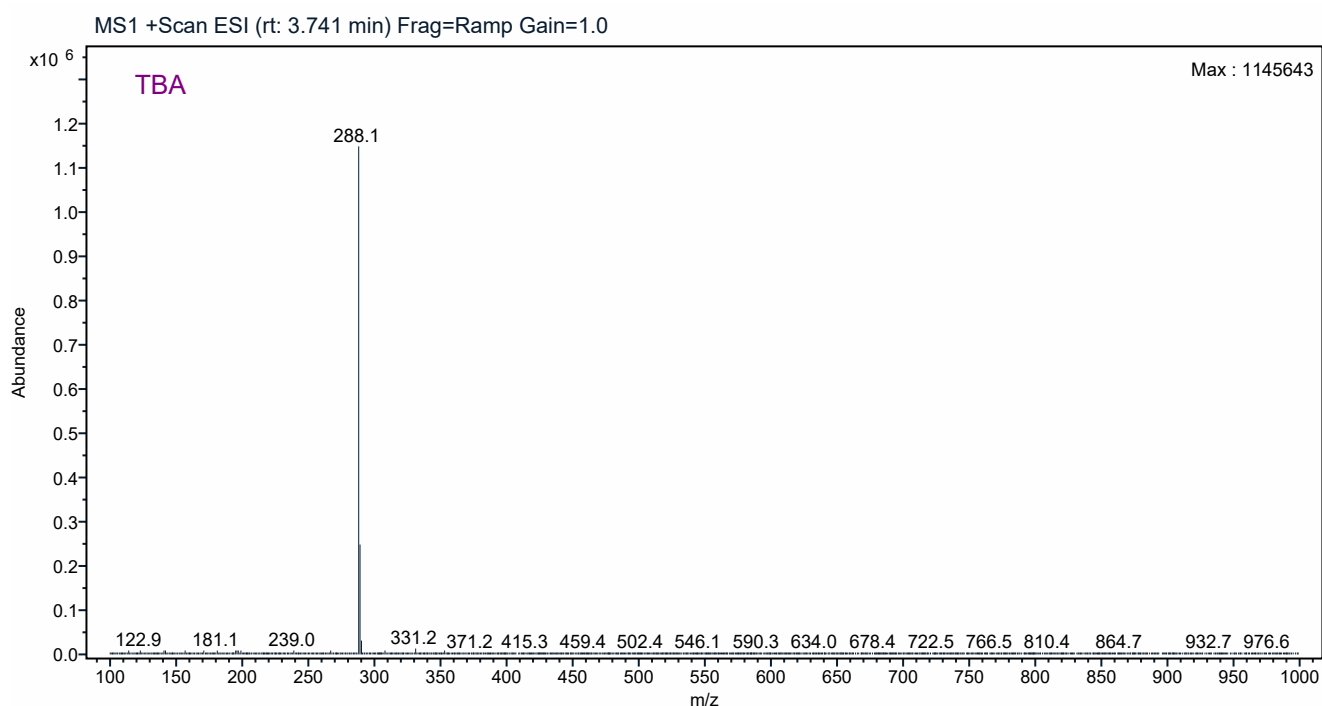
Analysis Report

CD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:52:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana2.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 3.747



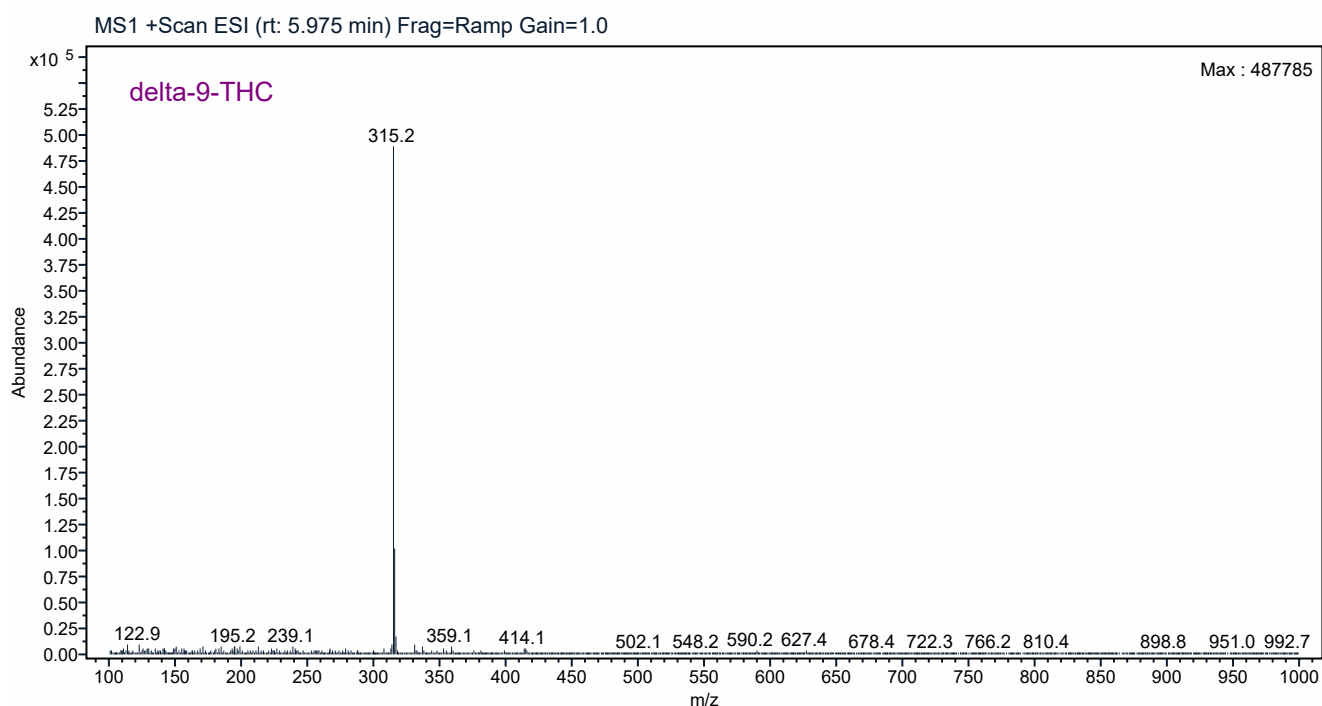
Analysis Report

WD

Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:52:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana2.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 5.980



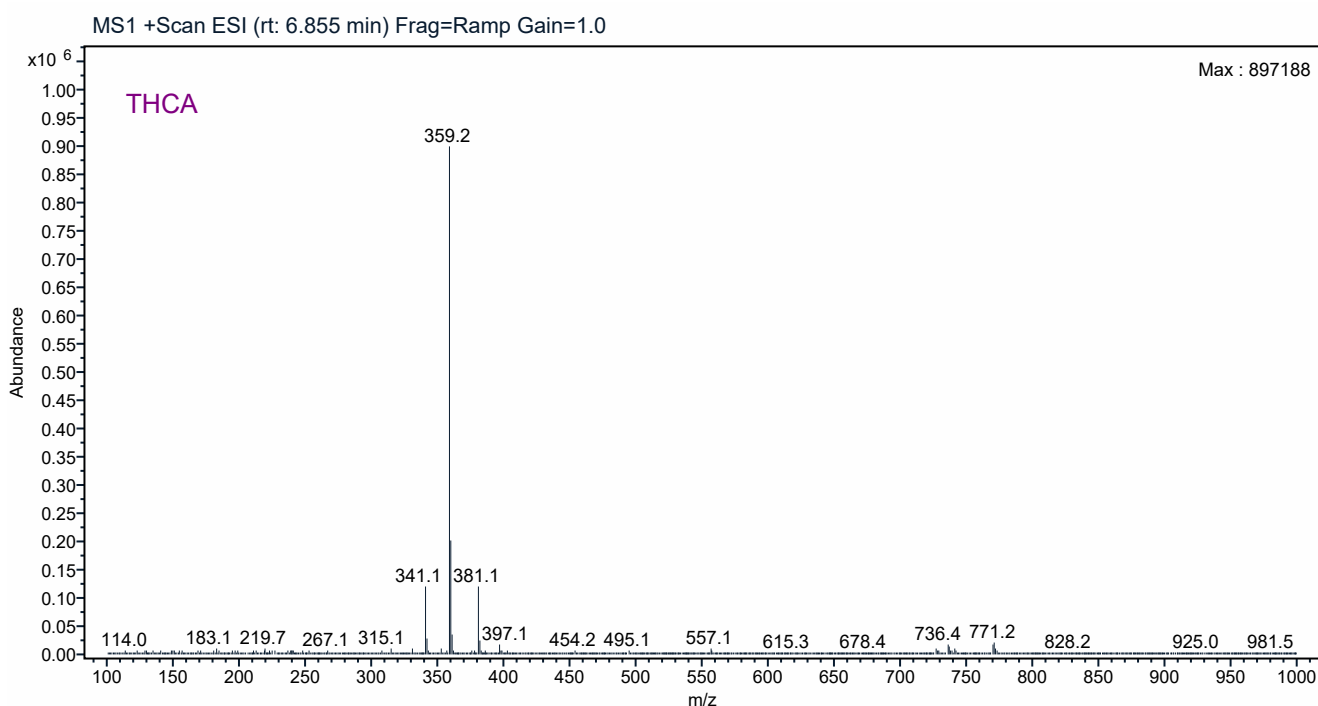
Analysis Report



Sample Name Marijuana 2 MeOH:ACN
Instrument Dolly
Sample Vial P1-B5
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana2.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 10:52:26-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana2.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.852



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.747	0.2450	7131683.6489	1366612.8659	24.8505
5.980	0.3172	5451263.5480	689526.3306	18.9950
6.852	0.3635	16115411.2080	1780557.6036	56.1545

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 2

Date: 8/15/2025

Analyst: CLD

Page: 110

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.58 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,789,602.8571 / 6,864,341.1837

Standard Ratio = 0.261

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 5,451,263.5480 / 7,131,683.6489

Sample Ratio = 0.764

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 0.764 x (100 mg / 99.58 mg)

Corrected Sample Ratio = 0.764 x 1.00422

Corrected Sample Ratio = 0.768

Result:

The Corrected Sample Ratio (0.768) is Greater than the Standard Ratio (0.261)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

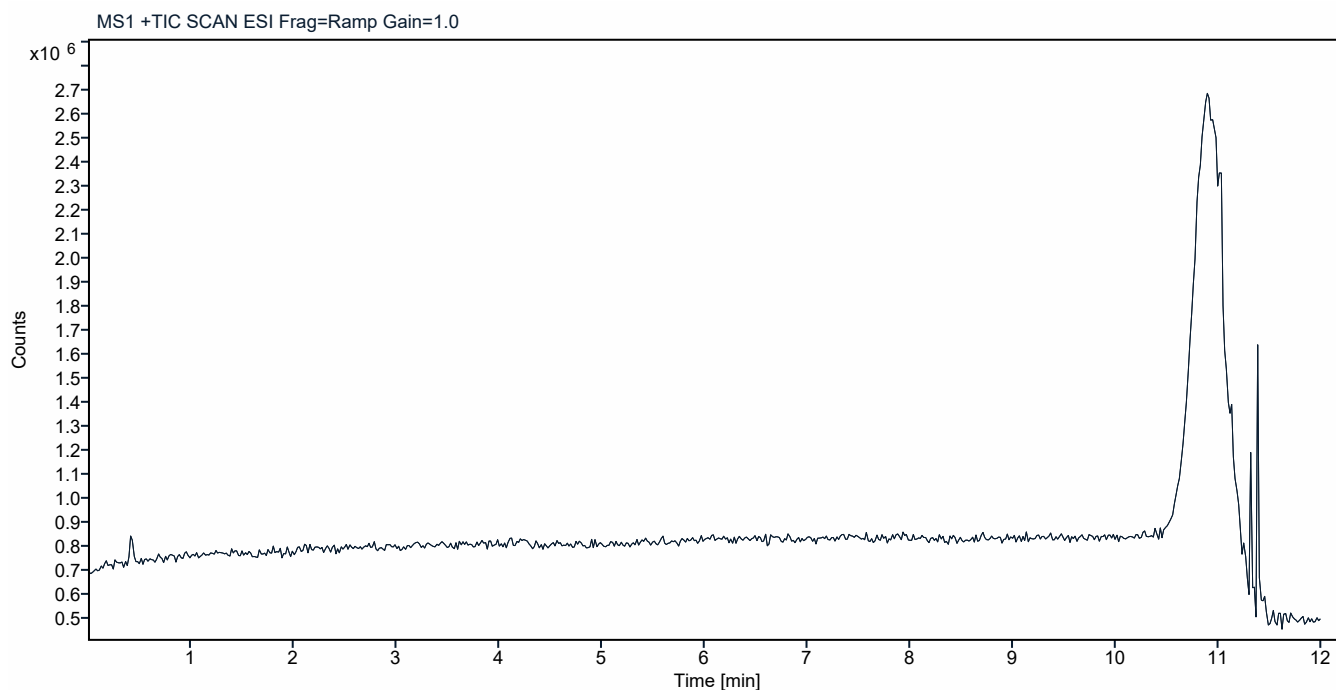
Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
1% Δ^9 THC Standard must meet the acceptance criteria.

Analysis Report

CD

Sample Name	Blank 8-13-25 Marijuana3 MeOH:ACN	Injection Data File Name	Marijuana3 Blank.dx
Instrument Name	Dolly	Injection Acq Method Name	Cannabis Method Raptor.amx
Sample Vial Number	P1-B1	Injection Acquired Date	2025-08-15 11:19:40-05:00
Injection Volume	3.000	Data File Path	C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana3 Blank.sirsl
Processing Method	LC/MS Spectral Deconvolution		

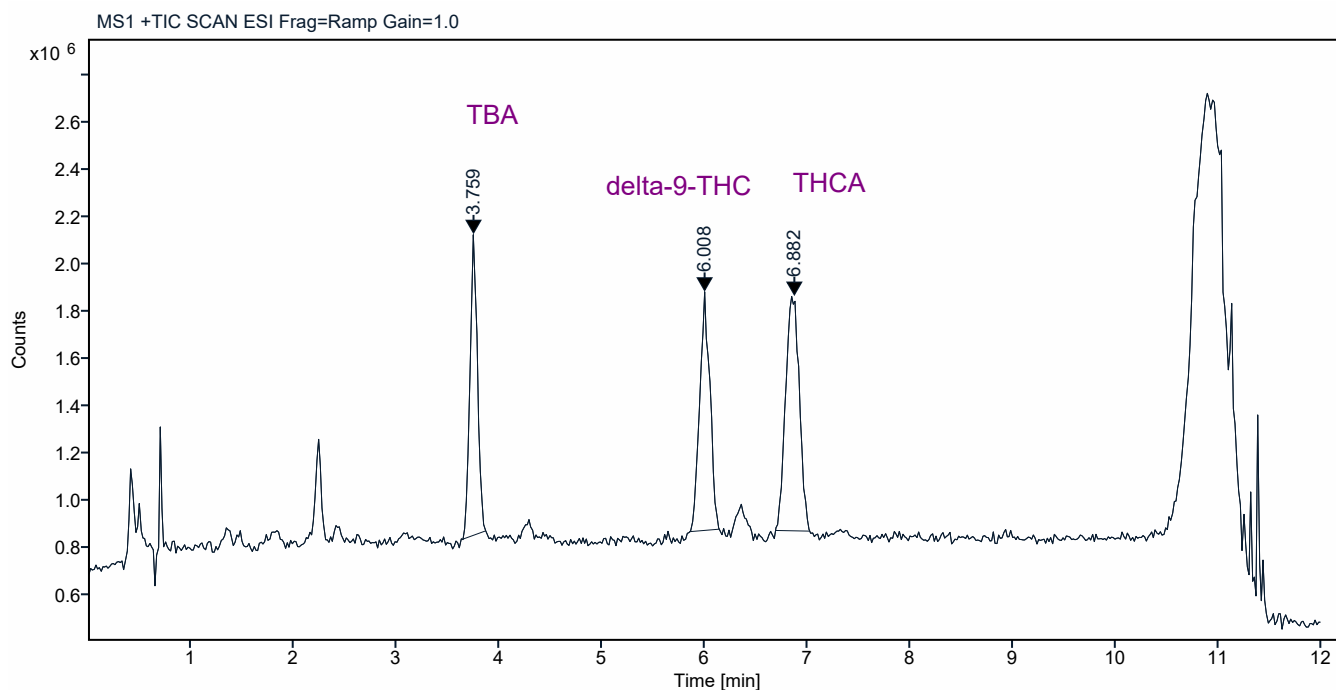


Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 11:33:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana3.sirslt



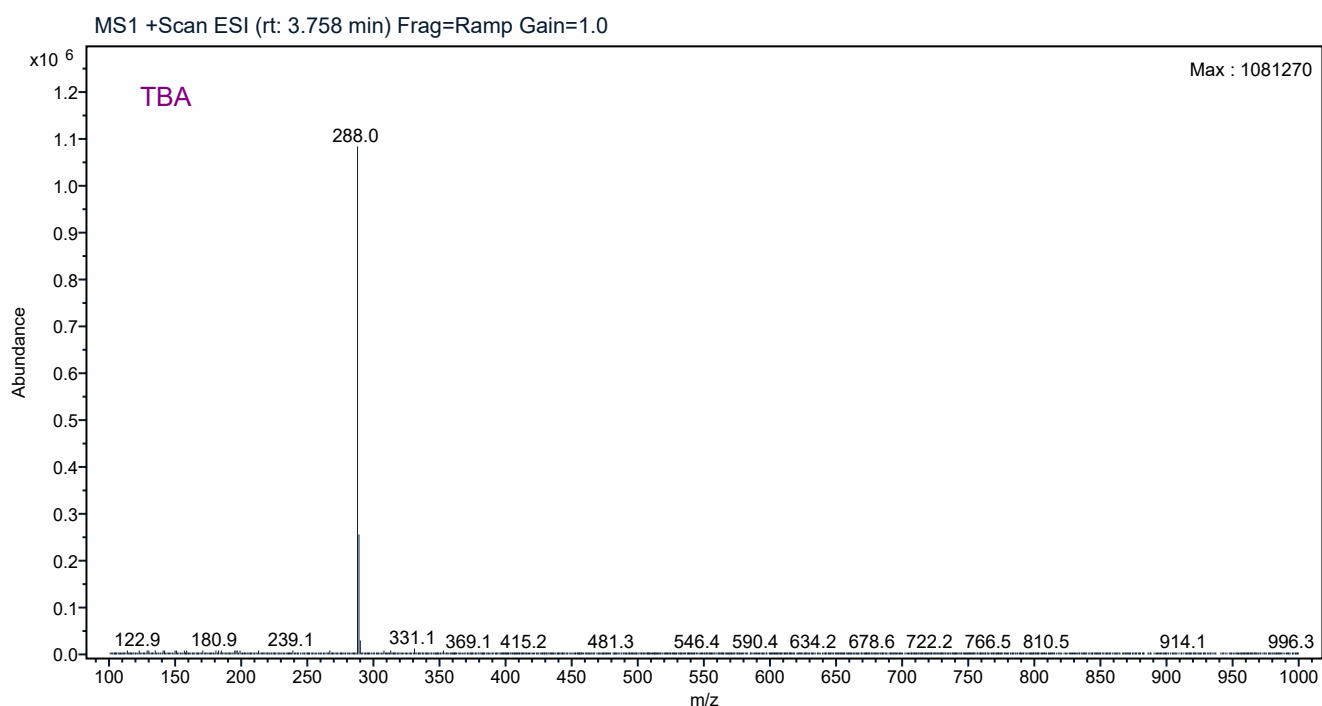
Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 11:33:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana3.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 3.759



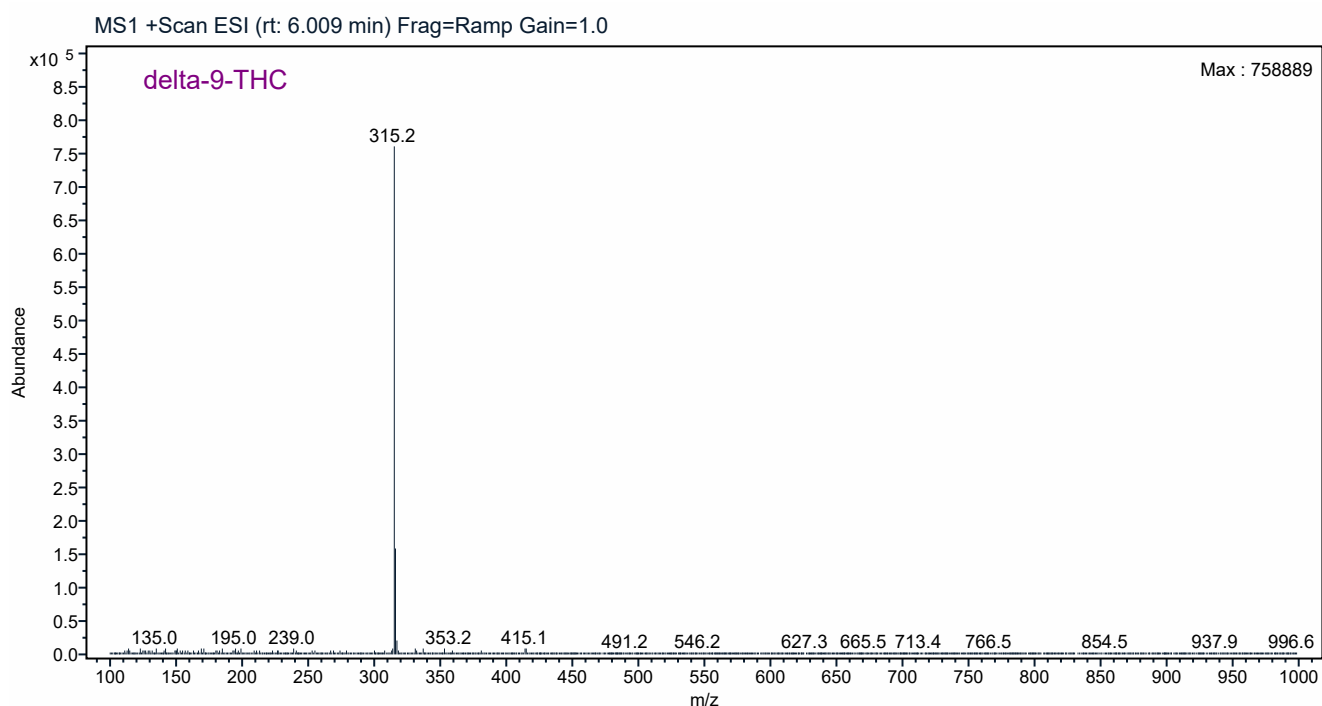
Analysis Report

CD

Sample Name Marijuana 3 MeOH:ACN
Instrument Dolly
Sample Vial P1-B6
Injection Volume 3.000
Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
Name
Injection Acq Cannabis Method Raptor.amx
Method Name
Injection Acquired 2025-08-15 11:33:16-05:00
Date
Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana3.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 Peak Retention Time 6.008



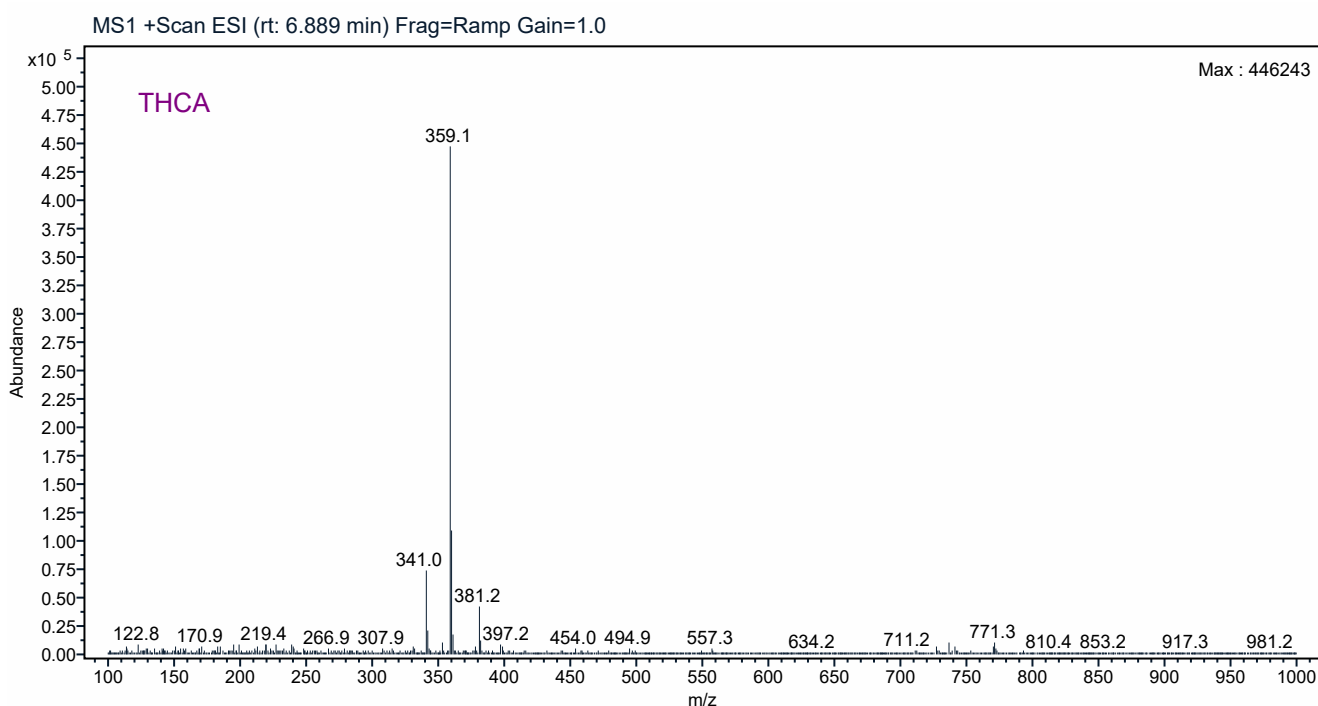
Analysis Report



Sample Name Marijuana 3 MeOH:ACN
 Instrument Dolly
 Name
 Sample Vial P1-B6
 Number
 Injection Volume 3.000
 Processing Method: LC/MS Spectral Deconvolution

Injection Data File Marijuana3.dx
 Name
 Injection Acq Cannabis Method Raptor.amx
 Method Name
 Injection Acquired 2025-08-15 11:33:16-05:00
 Date
 Data File Path C:\CDSPProjects\Dolly\Results\CLD\8-15-25\Marijuana3.sirslt

Signal Name MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0 **Peak Retention Time** 6.882



Signal: MS1 +TIC SCAN ESI Frag=Ramp Gain=1.0

RT [min]	Width [min]	Area	Height	Area%
3.759	0.2202	6387736.9178	1274254.2858	28.1651
6.008	0.2845	7015100.0224	1010185.5612	30.9313
6.882	0.3337	9276751.4004	993645.1640	40.9035

Δ^9 THC Screening

Laboratory / Exhibit Number: Marijuana 3

Date: 8/15/2025

Analyst: CLD

Page: 116

 Δ^9 THC - Manufacturer / Lot Number: Cerilliant FE06212201

Methanol Lot Number: 24K2761006

Internal Standard Prepared Date: 4/22/25

Pipette(s): JCL-FC-004 (Sample Preparation) JCL-FC-002 (Dilution - LC/MS)

Analytical Balance: JCL-FC-011

Sample weight: 99.93 mg ☐ Net Static Weighing ☒ Net Dynamic Weighing

Comparison Standard

Standard Ratio = Δ^9 THC Standard Abundance / Internal Standard Abundance

Standard Ratio = 1,789,602.8571 / 6,864,341.1837

Standard Ratio = 0.261

Sample

Sample Ratio = Δ^9 THC Sample Abundance / Internal Standard Abundance

Sample Ratio = 7,015,100.0224 / 6,387,736.9178

Sample Ratio = 1.098

Weight Adjustment

Corrected Sample Ratio = Sample Ratio x (100 mg / Sample weight)

Corrected Sample Ratio = 1.098 x (100 mg / 99.93 mg)

Corrected Sample Ratio = 1.098 x 1.00070

Corrected Sample Ratio = 1.099

Result:

The Corrected Sample Ratio (1.099) is Greater than the Standard Ratio (0.261)

Therefore the sample is Greater than 1% Δ^9 Tetrahydrocannabinol.

Comparison standard abundances and sample abundances must be calculated with the same integration parameters.

The initial threshold integration parameter if using GC/MS was n/a
 1% Δ^9 THC Standard must meet the acceptance criteria.

8/13/2025		
Hemp	delta 9-THC standard	Sample
THC abundance	1801069.0191	264505.0043
TBA abundance	6338492.0554	5781204.8883
Abundance Ratio	0.284	0.046
Corrected abundance ratio		0.045
Result	Less than 1%	
Marijuana 1	delta 9-THC standard	Sample
THC abundance	1801069.0191	390061.2109
TBA abundance	6338492.0554	6063019.1774
Abundance Ratio	0.284	0.064
Corrected abundance ratio		0.064
Result	Less than 1%	
Marijuana 2	delta 9-THC standard	Sample
THC abundance	1801069.0191	4649550.5865
TBA abundance	6338492.0554	6402314.6834
Abundance Ratio	0.284	0.726
Corrected abundance ratio		0.729
Result	Greater than 1%	
Marijuana 3	delta 9-THC standard	Sample
THC abundance	1801069.0191	8071159.2415
TBA abundance	6338492.0554	6825364.5832
Abundance Ratio	0.284	1.183
Corrected abundance ratio		1.183
Result	Greater than 1%	

8/14/2025		
Hemp	delta 9-THC standard	Sample
THC abundance	1656042.0128	352133.2158
TBA abundance	6363340.8348	5802261.9582
Abundance Ratio	0.260	0.061
Corrected abundance ratio		0.06
Result	Less than 1%	
Marijuana 1	delta 9-THC standard	Sample
THC abundance	1656042.0128	448886.9375
TBA abundance	6363340.8348	6093066.2616
Abundance Ratio	0.260	0.074
Corrected abundance ratio		0.073
Result	Less than 1%	
Marijuana 2	delta 9-THC standard	Sample
THC abundance	1656042.0128	5700962.7404
TBA abundance	6363340.8348	7205141.5582
Abundance Ratio	0.260	0.791
Corrected abundance ratio		0.795
Result	Greater than 1%	
Marijuana 3	delta 9-THC standard	Sample
THC abundance	1656042.0128	7914843.3851
TBA abundance	6363340.8348	7273176.8718
Abundance Ratio	0.260	1.088
Corrected abundance ratio		1.089
Result	Greater than 1%	

8/15/2025		
Hemp	delta 9-THC standard	Sample
THC abundance	1789602.8571	467516.9607
TBA abundance	6864341.1837	5916678.2092
Abundance Ratio	0.261	0.079
Corrected abundance ratio		0.078
Result	Less than 1%	
Marijuana 1	delta 9-THC standard	Sample
THC abundance	1789602.8571	402754.5699
TBA abundance	6864341.1837	6910765.8439
Abundance Ratio	0.261	0.058
Corrected abundance ratio		0.058
Result	Less than 1%	
Marijuana 2	delta 9-THC standard	Sample
THC abundance	1789602.8571	5451263.5480
TBA abundance	6864341.1837	7131683.6489
Abundance Ratio	0.261	0.764
Corrected abundance ratio		0.768
Result	Greater than 1%	
Marijuana 3	delta 9-THC standard	Sample
THC abundance	1789602.8571	7015100.0224
TBA abundance	6864341.1837	6387736.9178
Abundance Ratio	0.261	1.098
Corrected abundance ratio		1.099
Result	Greater than 1%	

MS Autotune Report - InfinityLab LC/MSD iQ

Instrument Information

Model	G6160A LC/MSD iQ	Autotune Date	2025-08-11T08:54:43-05:00
Serial Number	SG2404R002	SW/FW Version	3.0.1539/8.2.8
Ion Source	ESI	Ionization Mode	ESI
Last Tuned By	SYSTEM (SYSTEM)	Overall Result	Passed

Vacuum And Temperature

Rough Vac (Torr)	1.78E+0	High Vac (Torr)	4.03E-6
Turbo1 Speed (%)	100.0	MS Heater (°C)	65

Positive Ion Mode

Detector Settings

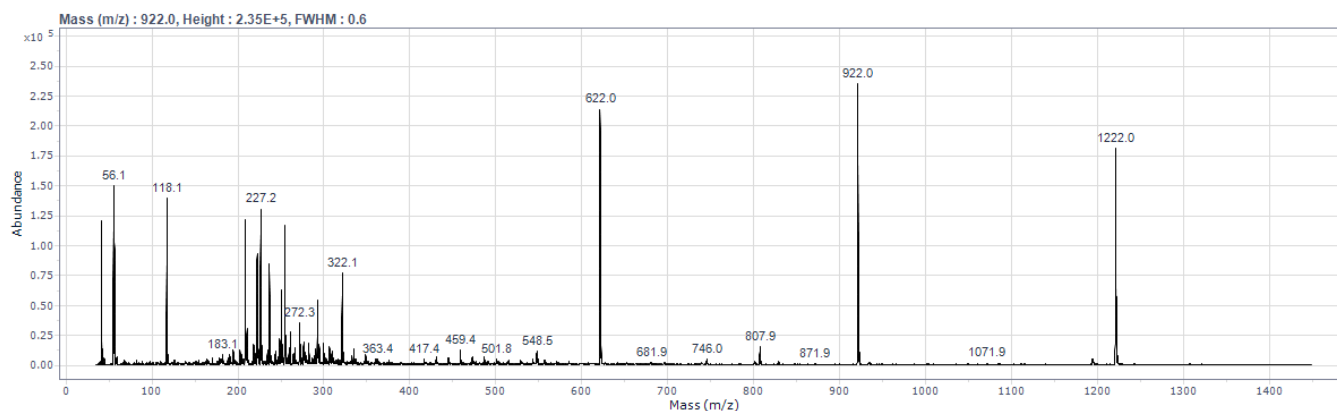
HED (kV)	-10	EMV (V)	800
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MS Peak Width: Unit, Scan Speed: Normal

Calibration Information

Result

Passed



Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
118.09	0.01	0.00	139874	Passed
322.05	0.00	0.01	66595	Passed
622.03	0.02	0.00	179231	Passed
922.01	-0.01	0.01	195551	Passed
1221.99	0.01	0.00	164378	Passed

MS Peak Width: Wide, Scan Speed: Normal

Calibration Information

Result

Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
118.09	-0.01	-0.01	154621	Passed
322.05	-0.01	0.02	80645	Passed
622.03	-0.01	-0.04	193497	Passed
922.01	0.01	-0.04	197597	Passed
1221.99	0.02	-0.01	183585	Passed

MS Peak Width: Widest, Scan Speed: Normal

Calibration Information

Result

Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
118.09	-0.01	0.02	164968	Passed
322.05	-0.04	0.05	100769	Passed
622.03	-0.02	-0.02	224612	Passed
922.01	0.02	-0.04	251967	Passed
1221.99	0.04	-0.06	234517	Passed

MS Scan Speed: Fast

Calibration Information	Result
	Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
118.09	0.01	-0.03	145868	Passed
322.05	0.01	0.02	77156	Passed
622.03	-0.02	-0.01	258812	Passed
922.01	-0.01	-0.02	219260	Passed
1221.99	-0.02	-0.01	285543	Passed

MS Scan Speed: Ultra

Calibration Information	Result
	Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
118.09	0.02	-0.02	147135	Passed
322.05	-0.03	0.00	98340	Passed
622.03	0.02	0.03	284163	Passed
922.01	0.02	-0.01	350024	Passed
1221.99	0.01	-0.02	293253	Passed

Lag Factor Results

MS1 Scan

Result
Passed

Lag Factor Result Table

Scan Speed	Samples	Step Size	Result
0.00	SIM	0.10	Passed
50.00	125.00	0.10	Passed
250.00	25.00	0.10	Passed
520.83	12.00	0.10	Passed
1250.00	5.00	0.10	Passed
1562.50	4.00	0.10	Passed
2083.33	3.00	0.10	Passed
3125.00	2.00	0.10	Passed

Detector Gain

Result
Passed

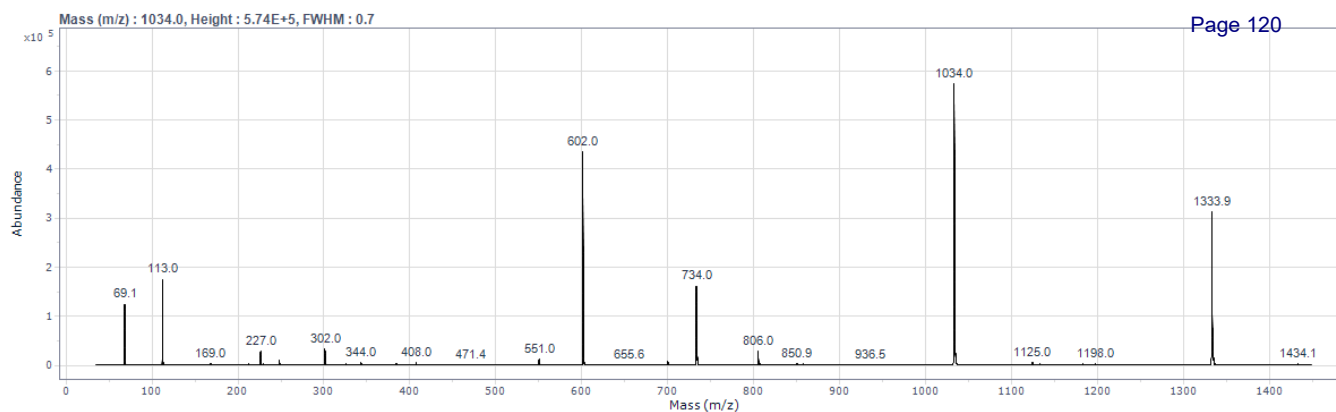
Negative Ion Mode

Detector Settings

HED (kV)	10	EMV (V)	820
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MS Peak Width: Unit, Scan Speed: Normal

Calibration Information	Result
	Passed



Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
112.99	0.01	-0.01	183478	Passed
302.00	0.00	0.00	28609	Passed
601.98	-0.01	0.00	445615	Passed
1033.99	0.00	0.01	548655	Passed
1333.97	0.00	0.00	315170	Passed

MS Peak Width: Wide, Scan Speed: Normal

Calibration Information

Result

Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
112.99	0.02	-0.03	196498	Passed
302.00	-0.01	0.01	28988	Passed
601.98	-0.01	0.02	356719	Passed
1033.99	0.00	0.01	630499	Passed
1333.97	0.00	0.00	704387	Passed

MS Peak Width: Widest, Scan Speed: Normal

Calibration Information

Result

Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
112.99	-0.01	0.05	200148	Passed
302.00	-0.01	-0.06	26697	Passed
601.98	-0.02	0.01	387284	Passed
1033.99	-0.03	-0.01	768625	Passed
1333.97	0.03	-0.04	1013823	Passed

MS Scan Speed: Fast

Calibration Information

Result

Passed

Mass Calibration Results

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
112.99	0.00	0.02	216488	Passed
302.00	0.00	0.01	27430	Passed
601.98	-0.02	0.00	483642	Passed
1033.99	0.01	0.03	532924	Passed
1333.97	0.06	-0.03	91374	Passed

MS Scan Speed: Ultra

Calibration Information

Result

Passed

Mass Calibration Results

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CD

Theoretical (m/z)	Mass Delta(m/z)	Width Delta(m/z)	Abundance	Result
112.99	-0.04	0.05	217817	Passed
302.00	0.00	-0.03	28656	Passed
601.98	0.02	-0.04	531094	Passed
1033.99	0.03	0.00	856474	Passed
1333.97	-0.01	-0.03	737282	Passed

Lag Factor Results**MS1 Scan****Result** Passed**Lag Factor Result Table**

Scan Speed	Samples	Step Size	Result
0.00	SIM	0.10	Passed
50.00	125.00	0.10	Passed
250.00	25.00	0.10	Passed
520.83	12.00	0.10	Passed
1250.00	5.00	0.10	Passed
1562.50	4.00	0.10	Passed
2083.33	3.00	0.10	Passed
3125.00	2.00	0.10	Passed

Detector Gain**Result** Passed

Acquisition Method Report

Acquisition Method: Cannabis Method Raptor

Path: C:\CDSPProjects\Dolly\Methods

1 Method Information

Last Saved As:	C:\CDSPProjects\Dolly\Methods\Cannabis Method Raptor.amx	Modified:	2025-08-06 08:00:05-05:00	Modifier:	SYSTEM (SYSTEM)
Created:	2024-12-18 12:45:12-06:00	Creator:	SYSTEM (SYSTEM)	Description:	THC Method
Version:	2025-0806-1300-05803	Method Status:	Generic		

2 Binary Pump Method

Flow:	0.900 mL/min	Use Solvent Types:	Yes	Low Pressure Limit:	0.00 bar
High Pressure Limit:	600.00 bar	Maximum Flow Gradient:	100.000 mL/min ²	Module Display Name:	Binary Pump
Module Type:	G7112B	Order:	1		

Solvent Composition

Empty columns are hidden.

Channel	Solvent 1	Solvent 2	Name 2	Selected	Used	Percent
A	H2O	H2O	0.1% FA	Ch. 2	Yes	51.0 %
B	H2O	ACN	0.1% FA	Ch. 2	Yes	49.0 %

Timetable

Time	A	B	Flow	Pressure
Start. Cond. min	51.0 %	49.0 %	0.900 mL/min	600.00 bar
9.50 min	51.0 %	49.0 %	--- mL/min	--- bar
10.00 min	0.0 %	100.0 %	--- mL/min	--- bar
11.00 min	0.0 %	100.0 %	--- mL/min	--- bar
11.10 min	51.0 %	49.0 %	--- mL/min	--- bar
12.00 min	51.0 %	49.0 %	--- mL/min	--- bar

2.1 Stroke A

Automatic Stroke Calculation A:	Yes
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2.2 Stroke B

Automatic Stroke Calculation B:	Yes
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2.3 Stoptime

Stoptime Mode:	Time set	Stoptime:	12.00 min
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2.4 Posttime

Posttime Mode:	Time set	Posttime:	1.00 min
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3 Sampler Method

Module Display Name:	Sampler	Module Type:	G7129A	Order:	1
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3.1 Auxiliary

Draw Speed:	100 µL/min	Eject Speed:	100 µL/min	Wait Time After Draw:	1.2 s
Needle Height Offset:	0.2 mm				

3.2 Injection

Injection Mode:	Injection with needle wash	Injection Volume:	3.00 µL
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3.2.1 Needle Wash

Needle Wash Location:	Flush Port	Wash Time:	3 s
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3.3 High throughput

Sample Flush-Out Factor: 6.0 | Injection Valve to Bypass for Delay Volume Reduction: Yes

3.3.1 Overlapped Injection

Overlapped Injection Mode: Off

3.4 Stoptime

Stoptime Mode: As Pump/No Limit

3.5 Posttime

Posttime Mode: Off

4 Column Oven Method

Module Display Name: Column Oven | Module Type: G7130A | Order: 1

4.1 Temperature Control

Temperature Control Mode: Temperature Set | Temperature: 45.0 °C

4.1.1 Temperature Not Ready Limit

Temperature Not Ready Limit On: Yes | Temperature Not Ready Limit Value: 0.8 °C | Temperature Equilibration Time: 0.0 min

4.2 Enforce column for run

Enforce column for run is enabled: No

4.3 Stoptime

Stoptime Mode: As Pump/Injector

4.4 Posttime

Posttime Mode: Off

5 Method

Module Display Name: SQ Mass Spectrometer | Module Type: LC/MSD iQ | Order: 1

5.1 General

Acquire Mode: Advanced	Tune File: atunes.tune	Ion Source: ESI
Optimized Method: Off	Last Compound Optimized Time:	Last Source Optimized Time:
Time Filter Enabled: On	Time filter window: 0.02 min	

5.2 Stop Time

Stop Mode: By Pump Time

5.3 Time Segment

Time Segment	
Start Time	Scan Type
0 min	Scan

5.3.1

Targeted Points Per Second Enabled: On | Targeted Points Per Second: 0.99 Hz | SIM %: 0 %

5.3.2 Time Segment 1

5.3.2.1 Scan Type: Scan

Empty columns are hidden.

Acquisition Method Report



Start mass	End mass	Scan time	Detector Gain Factor	Fragmentor	Fragmentor ramp?	Polarity	Threshold	Data Storage	Ion Mode
100 m/z	1000 m/z	1008 ms	1	Ramp(1) V	Enabled	+	0	Centroid	ESI

5.3.2.2 Fragmentor Ramp

Ramp(1)

Fragmentor Ramp Mass	Fragmentor Ramp Voltage
75 m/z	90 V
250 m/z	100 V
450 m/z	110 V
750 m/z	120 V
1000 m/z	130 V

5.3.2.3 Source Parameter

Source Parameter

Parameter Id	Positive Value	Negative Value
Gas Temperature (°C)	325	325
Gas Flow (L/min)	13	13
Nebulizer (psi)	45	45
Capillary Voltage (V)	3500	3500

5.4 Chromatogram

Chromatogram

Chromatogram Type	Label
Channel TIC	TIC

5.5 Timetable

Timetable

Start Time	Timetable Type	Timetable Value
0 min	Diverter Valve	To MS

6 Method Properties

Instrument Technique: Liquid Chromatography

7 Schema version

Schema version: 2.3

Method Audit Trail

Method audit trail is not printed