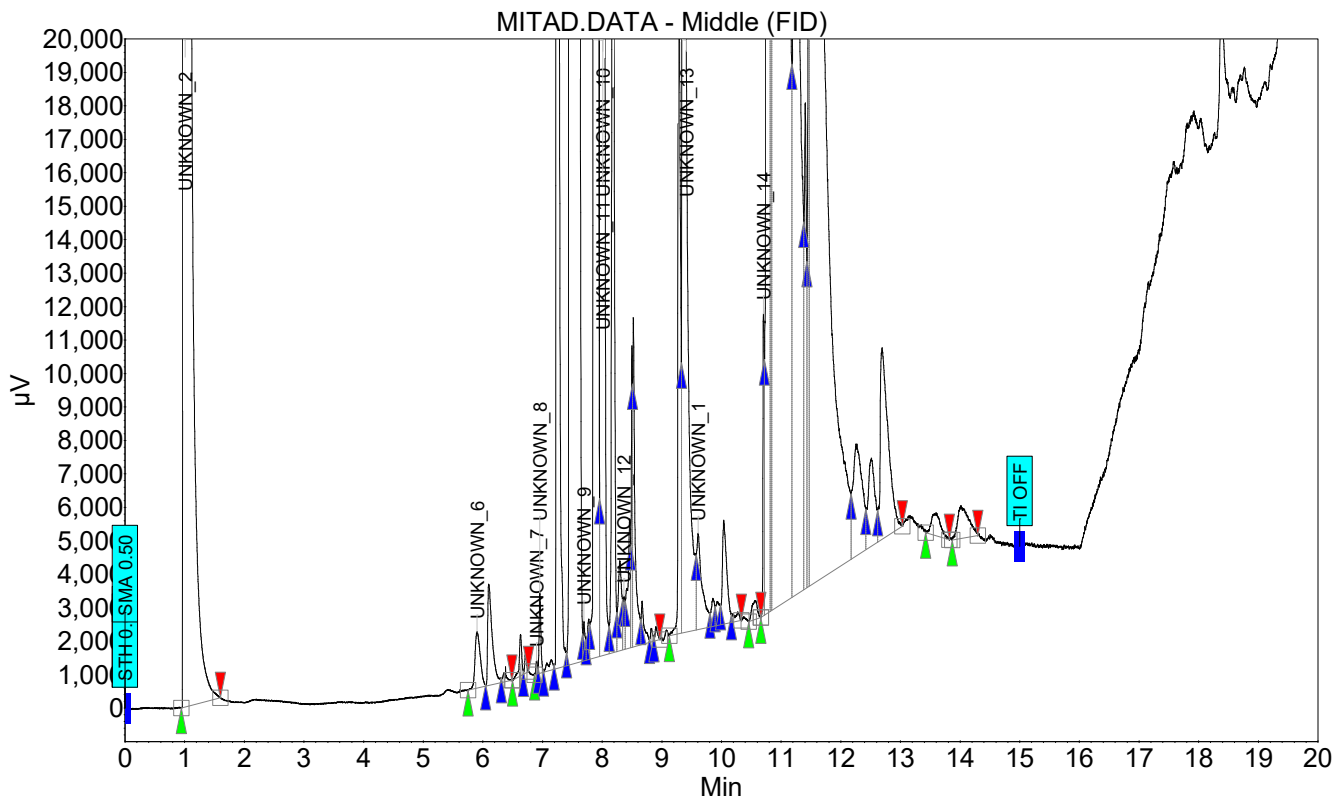


Chromatogram : MITAD_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.



CHROMATOGRAM METHOD REPORT :

Control method :

Scion/Bruker/Varian 400-GC Series (Exclu

Autosampler (8410)

Autosampler	ENABLED
First injector used	Position 2
Syringe volume	10 uL
Advance tray	NO
Clean between injections	NO
Use injection delay	NO
Delay between injections	1.0 min
Injection mode	Std (Split/Splitless)
Sample penetration depth	90 %
Solvent penetration depth	90 %

Abort clean

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Vial	I
Volume	5.0 uL
Strokes	1
Drawup speed	5.0 uL/s

Clean mode

Pre-injection solvent flushes	3
Pre-injection sample flushes	0
Post-injection solvent flushes	5
Clean solvent source	I

Injectors

Front (PWOC)

EFC 23 - Flow program	Rate (mL/min/min)	Step (mL/min)	Time (min)
	Initial	10.0	0.00
		Total time	0.00

EFC 23

Enabled OFF

Heat-only zone 1

Heater	OFF
Setpoint	50 °C

Middle (S/SL)

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Split event table	Time (min)	Split state	Split ratio
	Initial	ON	25

EFC 25

Enabled ON

Heat-only zone 2

Heater	ON
Setpoint	230 °C

Column oven

Stabilization time 0.50 min

Column oven zone

Heater ON

Temperature program	Rate (°C/min)	Step (°C)	Time (min)
	Initial	100	4.00
	25.0	200	8.00
	20.0	250	5.00
		Total time	23.50

Valve oven

Rear (Small valve oven)

Heat-only zone 3

Heater	OFF
Setpoint	50 °C

Columns

Front

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Carrier gas	Helium
Length	15.00 m
Inside diameter	200 um
Type	WCOT

Middle

Carrier gas	Helium
Length	30.00 m
Inside diameter	320 um
Type	PLOT

Pressure mode	Constant flow
Column flow	2.20 mL/min
Pressure pulse	DISABLED

Detectors

Heat-only zone 4

Heater	OFF
Setpoint	50 °C

Front (TCD)

Electronics	OFF
Time constant	Fast
Data rate	10 Hz

Filament temp. limit	390 °C
Filament temperature	50 °C

TCD event table	Time (min)	Range	Autozero	Polarity
	Initial	0.05	YES	POSITIVE

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

EFC 14

Enabled	OFF
Make-up (Helium) flow	25 mL/min
Reference (Helium) flow	30.0 mL/min

Heat-only zone 5

Heater	ON
Setpoint	250 °C

Middle (FID)

Electronics	ON
Time constant	Fast
Data rate	10 Hz

FID event table	Time (min)	Range	Autozero
	Initial	12	YES

EFC 11

Enabled	ON
Make-up (Nitrogen) flow	28 mL/min
Combustion (H2) flow	30.0 mL/min
Combustion (Air) flow	300.0 mL/min

Ouput ports

Front

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Front	0

Middle

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Middle	0

Rear

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Rear	0

Valves

Valve event table	Time (min)	Gas Sample Valve
	Initial	Fill

Miscellaneous

Start automatically when ready NO

Acquisition :
Run Name : MITAD
Run Id. : -1
Run Time : 24.00

Integration method :
Reduce Noise : Yes
Spike Parameter : 1
Use Relative Threshold ? : Yes
Peak saturation level : min = 0 max = 0

Integration events :

Active	Time	Event	ON	Value
Yes	0.00	Set Peak Width		0.5
Yes	0.00	Set Threshold		0.05
Yes	0.00	Set Minimal Area		0.5
Yes	15.00	Turn Integration	OFF	

Manual actions :

Chromatogram : MITAD_channel1

System : 450 GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Manual integration action count : 17

Action #1 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 15 at 9.33
Action #2 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 21 at 10.84
Action #3 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 3 at 6.31
Action #4 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 4 at 6.68
Action #5 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 5 at 6.92
Action #6 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 8 at 7.67
Action #7 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 9 at 7.79
Action #8 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 12 at 8.34
Action #9 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 13 at 8.48
Action #10 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 37 at 8.65
Action #11 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 14 at 8.87
Action #12 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 37 at 8.51
Action #13 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 17 at 9.89
Action #14 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 18 at 10.17
Action #15 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 20 at 10.72
Action #16 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 22 at 11.38
Action #17 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 23 at 11.47

Peak Identification table :

Peak Name	RT [min]	Abs.Window[min]	Window %	Ref?	Mode
UNKNOWN_2	1.14	0.20	0.00		Nearest
heptano	1.48	0.20	0.00		Nearest
UNKNOWN_4	2.11	0.20	0.00		Nearest
UNKNOWN_5	4.10	0.20	0.00		Nearest
UNKNOWN_6	5.86	0.20	0.00		Nearest
UNKNOWN_7	6.93	0.20	0.00		Nearest
UNKNOWN_8	6.96	0.20	0.00		Nearest
UNKNOWN_9	7.71	0.20	0.00		Nearest
UNKNOWN_10	7.84	0.20	0.00		Nearest
UNKNOWN_11	8.04	0.20	0.00		Nearest
UNKNOWN_12	8.41	0.20	0.00		Nearest
UNKNOWN_13	9.32	0.20	0.00		Nearest
UNKNOWN_1	9.54	0.20	0.00		Nearest
UNKNOWN_14	10.71	0.20	0.00		Nearest

Resolve with references : No

Group Identification table :

Group Name	Group type	Parameters
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Chromatogram : MITAD_channel1

System : 450-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Peak results :

Index	Name	Time [Min]	Quantity [% Area]	Height [µV]	Area [µV.Min]	Area % [%]
1	UNKNOWN 2	0.98	92.51	300324591.5	1997058.5	92.512
2	UNKNOWN 6	5.90	0.01	1674.4	171.0	0.008
3	UNKNOWN	6.10	0.01	3026.7	265.5	0.012
31	UNKNOWN	6.38	0.00	443.7	20.8	0.001
4	UNKNOWN	6.63	0.00	1235.6	59.4	0.003
32	UNKNOWN	6.72	0.00	591.2	22.9	0.001
5	UNKNOWN 7	6.90	0.00	398.1	12.3	0.001
33	UNKNOWN 8	6.95	0.00	2405.3	83.1	0.004
6	UNKNOWN	7.15	0.00	295.2	30.4	0.001
7	UNKNOWN	7.23	0.17	82702.5	3650.2	0.169
8	UNKNOWN	7.45	3.92	970329.2	84635.0	3.921
34	UNKNOWN 9	7.69	0.00	1177.5	46.6	0.002
9	UNKNOWN	7.77	0.00	1195.3	55.5	0.003
35	UNKNOWN 10	7.86	0.67	285069.2	14456.5	0.670
10	UNKNOWN 11	7.96	0.59	274739.8	12717.0	0.589
11	UNKNOWN	8.17	0.11	76047.9	2286.8	0.106
12	UNKNOWN	8.30	0.01	2680.3	186.2	0.009
36	UNKNOWN 12	8.36	0.00	1581.6	63.2	0.003
13	UNKNOWN	8.46	0.01	3857.4	223.5	0.010
37	UNKNOWN	8.50	0.01	9014.9	209.6	0.010
40	UNKNOWN	8.52	0.02	9840.2	439.8	0.020
38	UNKNOWN	8.67	0.00	1290.5	75.7	0.004
14	UNKNOWN	8.82	0.00	386.6	16.8	0.001
39	UNKNOWN	8.90	0.00	395.3	19.5	0.001
15	UNKNOWN	9.28	0.05	23511.1	1030.2	0.048
29	UNKNOWN 13	9.34	0.17	49516.9	3630.3	0.168
16	UNKNOWN 1	9.61	0.01	2866.5	311.4	0.014
17	UNKNOWN	9.86	0.00	826.2	55.9	0.003
41	UNKNOWN	9.93	0.00	714.9	54.8	0.003
18	UNKNOWN	10.04	0.01	3106.6	267.8	0.012
42	UNKNOWN	10.28	0.00	265.1	28.6	0.001
19	UNKNOWN	10.56	0.00	564.7	58.4	0.003
20	UNKNOWN 14	10.70	0.01	9026.2	224.9	0.010
43	UNKNOWN	10.75	0.17	65581.4	3668.4	0.170
21	UNKNOWN	10.83	0.06	57497.7	1343.5	0.062
30	UNKNOWN	10.87	0.62	73689.6	13452.1	0.623
22	UNKNOWN	11.23	0.18	27065.0	3895.4	0.180
44	UNKNOWN	11.40	0.03	14522.2	640.7	0.030
23	UNKNOWN	11.46	0.03	22605.0	639.2	0.030
45	UNKNOWN	11.50	0.48	44513.0	10432.7	0.483
24	UNKNOWN	12.25	0.03	3354.8	598.9	0.028
25	UNKNOWN	12.51	0.02	2631.2	349.4	0.016
26	UNKNOWN	12.69	0.04	5726.3	895.3	0.041
27	UNKNOWN	13.60	0.01	684.3	118.4	0.005
28	UNKNOWN	14.02	0.01	973.4	206.9	0.010
Total			100.00	302464212.1	2158708.8	100.000

CHROMATOGRAM METHOD REPORT :

Control method :

Scion/Bruker/Varian 400-GC Series (Exclu

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Autosampler (8410)

Autosampler	ENABLED
First injector used	Position 2
Syringe volume	10 uL
Advance tray	NO
Clean between injections	NO
Use injection delay	NO
Delay between injections	1.0 min
Injection mode	Std (Split/Splitless)
Sample penetration depth	90 %
Solvent penetration depth	90 %

Abort clean

Vial	I
Volume	5.0 uL
Strokes	1
Drawup speed	5.0 uL/s

Clean mode

Pre-injection solvent flushes	3
Pre-injection sample flushes	0
Post-injection solvent flushes	5
Clean solvent source	I

Injectors

Front (PWOC)

EFC 23 - Flow program	Rate (mL/min/min)	Step (mL/min)	Time (min)
	Initial	10.0	0.00
		Total time	0.00

EFC 23

Chromatogram : MITAD_channel1

System : 450 GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Enabled	OFF
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Heat-only zone 1

Heater	OFF
Setpoint	50 °C

Middle (S/SL)

Split event table	Time (min)	Split state	Split ratio
	Initial	ON	25

EFC 25

Enabled	ON
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Heat-only zone 2

Heater	ON
Setpoint	230 °C

Column oven

Stabilization time	0.50 min
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Column oven zone

Heater	ON
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Temperature program	Rate (°C/min)	Step (°C)	Time (min)
	Initial	100	4.00
	25.0	200	8.00
	20.0	250	5.00
		Total time	23.50

Chromatogram : MITAD_channel1

System : 450 GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Valve oven

Rear (Small valve oven)

Heat-only zone 3

Heater	OFF
Setpoint	50 °C

Columns

Front

Carrier gas	Helium
Length	15.00 m
Inside diameter	200 um
Type	WCOT

Middle

Carrier gas	Helium
Length	30.00 m
Inside diameter	320 um
Type	PLOT

Pressure mode	Constant flow
Column flow	2.20 mL/min
Pressure pulse	DISABLED

Detectors

Heat-only zone 4

Heater	OFF
Setpoint	50 °C

Front (TCD)

Electronics	OFF
Time constant	Fast

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Electronics	OFF
Data rate	10 Hz

Filament temp. limit	390 °C
Filament temperature	50 °C

TCD event table	Time (min)	Range	Autozero	Polarity
	Initial	0.05	YES	POSITIVE

EFC 14

Enabled	OFF
Make-up (Helium) flow	25 mL/min
Reference (Helium) flow	30.0 mL/min

Heat-only zone 5

Heater	ON
Setpoint	250 °C

Middle (FID)

Electronics	ON
Time constant	Fast
Data rate	10 Hz

FID event table	Time (min)	Range	Autozero
	Initial	12	YES

EFC 11

Chromatogram : MITAD_channel1

System : 450-CC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Enabled	ON
Make-up (Nitrogen) flow	28 mL/min
Combustion (H2) flow	30.0 mL/min
Combustion (Air) flow	300.0 mL/min

Output ports

Front

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Front	0

Middle

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Middle	0

Rear

ENABLED NO

Output port program	Time (min)	Detector source	Attenuation (2^X)
	Initial	Rear	0

Valves

Valve event table	Time (min)	Gas Sample Valve
	Initial	Fill

Miscellaneous

Start automatically when ready NO

Chromatogram : MITAD_channel1

System : 456-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Acquisition :
System : 456-GC
Project : Aceites
Run Name : MITAD
Description
Run Id. : -1
Run Time : 24.00
Vial : 10
Rack : 0
Analysis : Unknown
Injection volume : 1.00

Scale :
RT Min : 0.00
RT Max : 20.00
Y Min : -1,000.00
Y Max : 20,000.00
Divisor factor : 1.00
Multiplier factor : 1.00
Sample mass : 0.00

Run log :

Injection report for Position 2

Injection occurred at 07/11/2025 01:21:45 p. m.

Scion/Bruker/Varian 400-GC Series (Exclu [Scion/Bruker/Varian 400-GC Series (Excluding 430)]
Wrapper 5.0.8.31952
Firmware 32834
Driver 4.1.0.394

Preprocessing :
Blank Subtract :
File:
N.A.

Integration method :
Reduce Noise : Yes
Spike Parameter : 1
Use Relative Threshold ? : Yes
Peak saturation level : min = 0 max = 0

Integration events :

Active	Time	Event	ON	Value
Yes	0.00	Set Peak Width		0.5
Yes	0.00	Set Threshold		0.05
Yes	0.00	Set Minimal Area		0.5
Yes	15.00	Turn Integration	OFF	

Manual actions :
Manual integration action count : 17
Action #1 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 15 at 9.33
Action #2 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 21 at 10.84
Action #3 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 3 at 6.31

Chromatogram : MITAD_channel1

System : 450 GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

Action #4 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 4 at 6.68
Action #5 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 5 at 6.92
Action #6 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 8 at 7.67
Action #7 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 9 at 7.79
Action #8 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 12 at 8.34
Action #9 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 13 at 8.48
Action #10 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 37 at 8.65
Action #11 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 14 at 8.87
Action #12 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 37 at 8.51
Action #13 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 17 at 9.89
Action #14 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 18 at 10.17
Action #15 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 20 at 10.72
Action #16 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 22 at 11.38
Action #17 : 21/11/2025 01:02:12 p. m. : SPLIT peak # 23 at 11.47

Peak Identification table :

Peak Name	RT [min]	Abs.Window[min]	Window %	Ref?	Mode
UNKNOWN_2	1.14	0.20	0.00		Nearest
heptano	1.48	0.20	0.00		Nearest
UNKNOWN_4	2.11	0.20	0.00		Nearest
UNKNOWN_5	4.10	0.20	0.00		Nearest
UNKNOWN_6	5.86	0.20	0.00		Nearest
UNKNOWN_7	6.93	0.20	0.00		Nearest
UNKNOWN_8	6.96	0.20	0.00		Nearest
UNKNOWN_9	7.71	0.20	0.00		Nearest
UNKNOWN_10	7.84	0.20	0.00		Nearest
UNKNOWN_11	8.04	0.20	0.00		Nearest
UNKNOWN_12	8.41	0.20	0.00		Nearest
UNKNOWN_13	9.32	0.20	0.00		Nearest
UNKNOWN_1	9.54	0.20	0.00		Nearest
UNKNOWN_14	10.71	0.20	0.00		Nearest

Resolve with references : No

Group Identification table :

Group Name	Group type	Parameters
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Calibration Method :

Method type : Response %

Response : Area

Standard Unit : g/l

Calibration curve file name :

Factors : Curve

Subtract internal standard mass

Response unit : Curve

Unknown mode : None

Calibration components :

Component	Level 1	Level 2	Level 3	Level 4	Control Sample
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Suitability tests :

Export :

Chromatogram : MITAD_channel1

System : 456-GC
Method : Biodiesel FAME 2023
User : User1

Acquired : 07/11/2025 01:21:45 p. m.
Processed : 21/11/2025 01:02:12 p. m.
Printed : 21/11/2025 01:02:24 p. m.

File 1 :
Export type : EXCEL
Format
Add a new sheet.
Destination :
File name : SEQNAME
File path : C:\Users\456-GC\Documents\Andres_2025\2025-11-07\MMORAN\
File ext. : .XLS
Content :
- Peak results (format :)

Post Run :

Print Method :
File name : : default_standard
Copies : 0

Summary :