

Client



Source

Grapefruit (*Citrus x paradisi*, Red)

NF-GRAP-21-A

Sample

Grapefruit (*Citrus x paradisi*, Red)

Batch #:..... NF-GRAP-21-A

Type:..... Essential Oil

CAS Number:.... 8016-20-4

Nature's Fusions

Client



Website

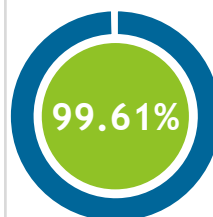
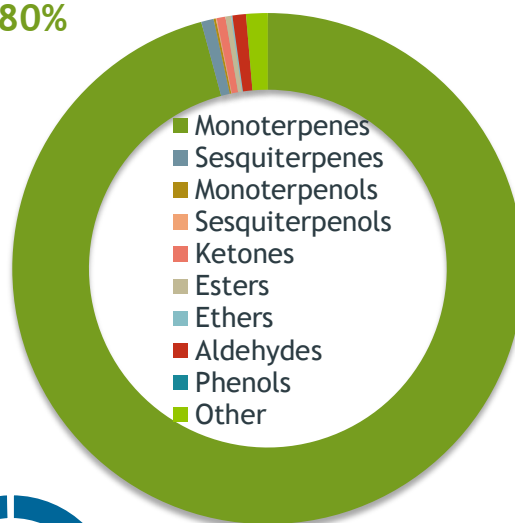


Primary

92.03%Limonene2.22%Myrcene0.83%Auraptene

Monoterpenes

95.80%



Percentage Identified

Result



Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine Essential Oil of Grapefruit (*Citrus x paradisi*, Red)

Internal Number: | EVS-4294



Essential Validation
Services

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Monoterpenes	95.80%	95.80%
Sesquiterpenes		0.79%
Monoterpenols		0.14%
Sesquiterpenols		0.06%
Ketones		0.55%
Esters		0.35%
Ethers		0.09%
Aldehydes		0.85%
Phenols		0.00%
Other		1.37%

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Grapefruit (*Citrus x paradisi*, Red)

NF-GRAP-21-A

Total Percentage		99.61%		
Number	RT	Area %	Compound Name	Chemical Family
1	7.95	0.01%	alpha-Thujene	Monoterpene
2	8.19	0.58%	alpha-Pinene	Monoterpene
3	9.74	0.49%	Sabinene	Monoterpene
4	9.91	0.20%	beta-Pinene	Monoterpene
5	10.49	2.22%	Myrcene	Monoterpene
6	11.07	0.20%	Octanal	Aliphatic Aldehyde
7	11.97	0.02%	para-Cymene	Monoterpene
8	12.34	92.03%	Limonene	Monoterpene
9	12.54	0.01%	(E)-beta-Ocimene	Monoterpene
10	12.99	0.15%	(Z)-beta-Ocimene	Monoterpene
11	13.46	0.08%	gamma-Terpinene	Monoterpene
12	14.13	0.03%	1-Octanol	Aliphatic Alcohol
13	14.67	0.01%	Terpinolene	Monoterpene
14	15.00	0.01%	6,7-Epoxyterpinene	Monoterpene Ether
15	15.40	0.06%	Linalool	Monoterpenol
16	15.62	0.07%	Nonanal	Aliphatic Aldehyde
17	15.99	0.01%	Heptyl acetate	Monoterpene Ester
18	16.82	0.03%	cis-Limonene oxide	Monoterpene Ether
19	17.03	0.03%	trans-Limonene oxide	Monoterpene Ether
20	17.79	0.07%	Citronellal	Monoterpene Aldehyde
21	19.70	0.05%	alpha-Terpineol	Monoterpenol
22	20.29	0.37%	Decanal	Aliphatic Aldehyde
23	20.54	0.14%	Octyl acetate	Aliphatic Ester
24	20.81	0.01%	trans-Carveol	Monoterpenol
25	21.25	0.01%	Citronellol	Monoterpenol
26	21.69	0.01%	Neral	Monoterpene Aldehyde
27	21.88	0.01%	Carvone	Monoterpene Ketone
28	23.04	0.02%	Geranial	Monoterpene Aldehyde
29	23.34	0.01%	1-Decanol	Monoterpenol
30	24.86	0.02%	Undecanal	Sesquiterpene Aldehyde
31	26.47	0.02%	alpha-Terpinyl acetate	Monoterpene Ester
32	26.68	0.03%	Citronellyl acetate	Monoterpene Ester
33	27.06	0.03%	Neryl acetate	Monoterpene Ester
34	27.66	0.08%	alpha-Copaene	Sesquiterpene
35	27.91	0.12%	Geranyl acetate	Monoterpene Ester

Grapefruit (*Citrus x paradisi*, Red)

NF-GRAP-21-A

[illegible]



Grapefruit (*Citrus x paradisi*, Red)
NF-GRAP-21-A

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Grapefruit (Citrus x paradisi, Red)
NF-GRAP-19-D

Sample

Grapefruit (Citrus x paradisi, Red)

Batch #:..... NF-GRAP-19-D

Type:..... Essential Oil

CAS Number:... 8016-20-4

Nature's Fusions

Client

Nature's FUSIONS
ESSENTIAL OILS

Website

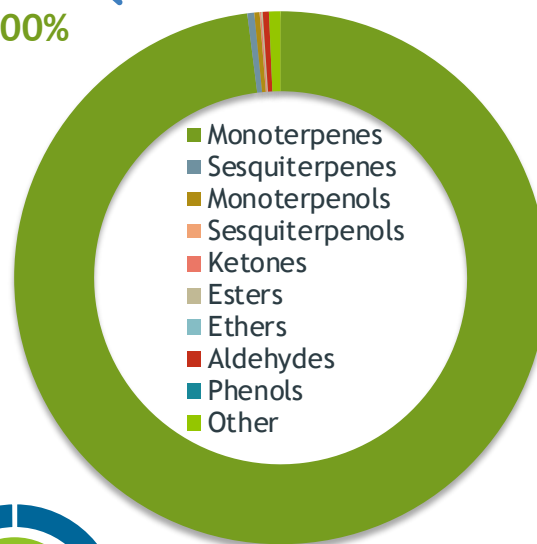


Primary

95.24%Limonene (Co-Eluting)1.96%Myrcene0.47%alpha-Pinene

Monoterpenes

98.00%

Percentage
Identified

Result

APPROVED

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Grapefruit (Citrus x paradisi, Red)

Internal Number: | EVS-2962



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Monoterpenes	98.00%	98.00%
Sesquiterpenes		0.42%
Monoterpenols		0.32%
Sesquiterpenols		0.03%
Ketones		0.06%
Esters		0.10%
Ethers		0.00%
Aldehydes		0.37%
Phenols		0.00%
Other		0.70%

Grapefruit (Citrus x paradisi, Red)
NF-GRAP-19-D

[illegible]



Source



Grapefruit (Citrus x paradisi, Red)
NF-GRAP-19-D

[illegible]

Client

Nature's FUSIONS
ESSENTIAL OILS

Source

Grapefruit (Citrus x paradisi, Red)
FR-GRAP-19-A

Sample

Grapefruit (Citrus x paradisi, Red)

Batch #:..... FR-GRAP-19-A

Type:..... Essential Oil

CAS Number:... 8016-20-4

Nature's Fusions

Client

Nature's FUSIONS
ESSENTIAL OILS

Website

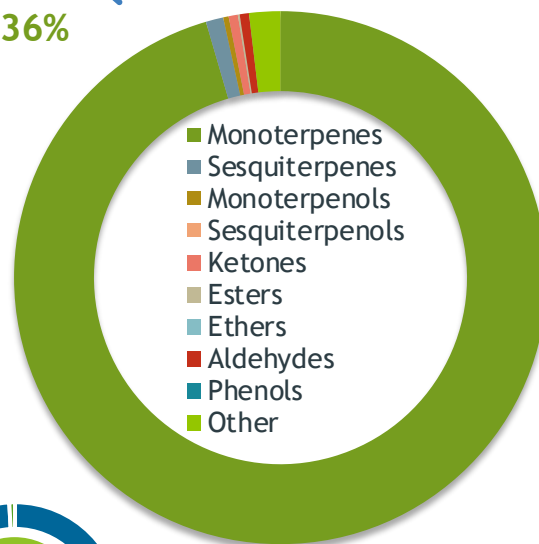


Primary

91.30%Limonene2.36%Myrcene0.85%Auraptanol

Monoterpenes

95.36%

Percentage
Identified

Result

APPROVED

Conclusion

No adulterants, diluents, or contaminants were detected via this method. This oil meets the expected profile for genuine essential oil of Grapefruit (Citrus x paradisi, Red)

Internal Number: | EVS-2904



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Monoterpenes	95.36%	95.36%
Sesquiterpenes	1.06%	
Monoterpenols	0.33%	
Sesquiterpenols	0.00%	
Ketones	0.56%	
Esters	0.11%	
Ethers	0.00%	
Aldehydes	0.56%	
Phenols	0.00%	
Other	1.89%	



Grapefruit (Citrus x paradisi, Red)
FR-GRAP-19-A

Total Percentage		99.14%			
Number	RT	Area %	Compound Name	RI	Chemical Family
1	12.91	0.69%	alpha-Pinene	936.10	Monoterpene
2	14.58	0.68%	Sabinene	973.00	Monoterpene
3	14.71	0.08%	beta-Pinene	974.00	Monoterpene
4	15.31	2.36%	Myrcene	989.20	Monoterpene
5	15.80	0.22%	Octanal	998.00	Aliphatic Aldehyde
6	17.07	91.30%	Limonene	1029.50	Monoterpene
7	17.27	0.03%	(Z)-beta-Ocimene	1037.80	Monoterpene
8	17.28	Co-Eluting	beta-Phellandrene	1030.00	Monoterpene
9	17.69	0.20%	(E)-beta-Ocimene	1047.70	Monoterpene
10	18.16	0.02%	gamma-Terpinene	1054.00	Monoterpene
11	18.60	0.04%	1-Octanol	1075.14	Aliphatic Alcohol
12	19.76	0.10%	Nonanal	1104.00	Aliphatic Aldehyde
13	21.83	0.08%	Citronellal	1154.50	Monoterpene Aldehyde
14	23.31	0.11%	Hexyl butyrate	1186.80	Aliphatic Ester
15	23.77	0.33%	alpha-Terpineol	1191.71	Monoterpenol
16	23.96	0.11%	Decanal	1206.57	Aliphatic Aldehyde
17	29.89	0.23%	alpha-Copaene	1379.00	Sesquiterpene
18	30.34	0.14%	beta-Elemene	1389.20	Sesquiterpene
19	30.72	0.05%	Dodecanal	1397.80	Aliphatic Aldehyde
20	31.36	0.47%	beta-Caryophyllene	1427.14	Sesquiterpene
21	32.44	0.06%	alpha-Humulene	1461.43	Sesquiterpene
22	33.29	0.04%	Germacrene D	1484.71	Sesquiterpene
23	34.49	0.12%	delta-Cadinene	1524.14	Sesquiterpene
24	42.52	0.56%	Nootkatone	1807.00	Sesquiterpene Ketone
25	50.38	0.05%	Osthole	2145.00	Coumarin
26	52.57	0.09%	Auraptenol	2230.00	Coumarin
27	59.20	0.85%	Auraptenol	2230.00	Coumarin
28	60.66	0.13%	Tangeretin	3155.00	Flavonoid



Grapefruit (Citrus x paradisi, Red)
FR-GRAP-19-A

[illegible]



Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Pink Grapefruit (Citrus paradisi)
Batch # | 171176B
CAS Number | 8016-20-4
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.



X

Validated By:

Essential Validation Services

747 SW 2nd Ave, Gainesville, FL 32601

Phone: 317-361-5044 E-mail: Adam@essentialvalidationservices.com

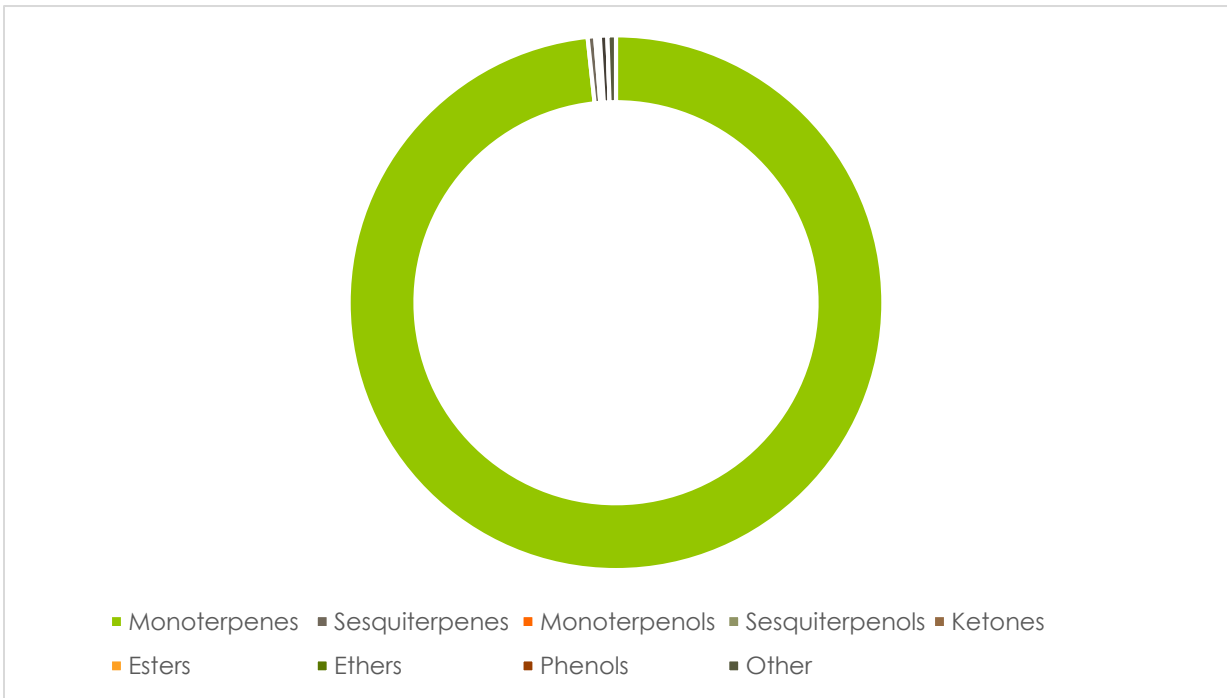
Summary of Analyses

A fresh sample of Pink Grapefruit (Citrus paradisi) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.



Main Compounds	Percentages
Limonene	94.12%
Myrcene	2.60%
alpha-Pinene	0.63%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
98.21%	0.45%	0.12%	0.00%	0.16%
Esters	Ethers	Aldehydes	Phenols	Other
0.00%	0.00%	0.46%	0.00%	0.51%





[illegible]



Essential Validation Services





Sample:

Client: | Nature's Fusions
Sample: | Pink Grapefruit (Citrus racemosa)
Batch # | R119865-04
CAS Number | 8016-20-4
Type: | Essential Oil

Conclusion:

- No adulterants, diluents, or contaminants were detected via this method.



X

Validated By:

Essential Validation Services

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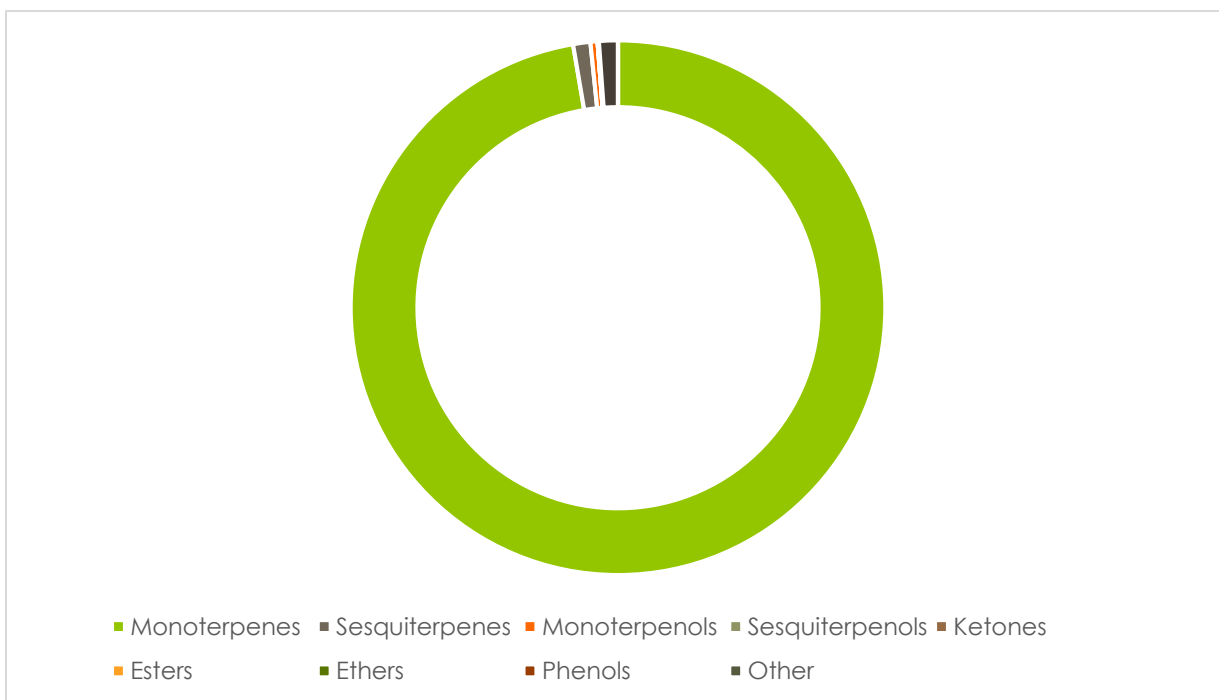
Summary of Analyses

A fresh sample of Pink Grapefruit (Citrus racemosa) Essential Oil (10 uL in .5 to .5 mL Hexane + ETOH) was prepared and analyzed via split injection GC/EI-MS.



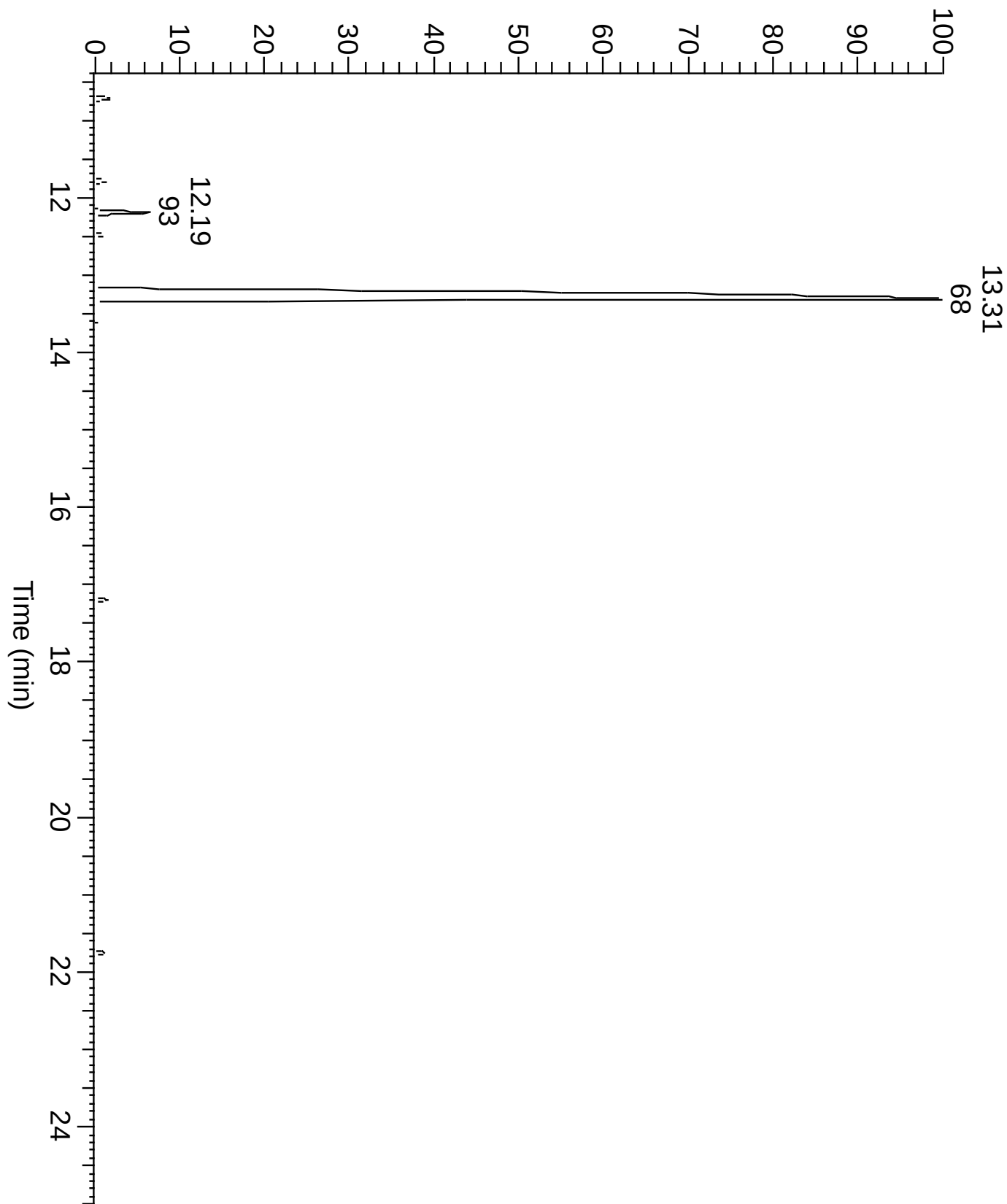
Main Compounds	Percentages
Limonene	92.76%
Myrcene	2.53%
alpha-Pinene	0.83%
Sabinene	0.57%
Decanal	0.53%

Monoterpenes	Sesquiterpenes	Monoterpenols	Sesquiterpenols	Ketones
97.25%	1.04%	0.43%	0.00%	0.00%
Esters	Ethers	Aldehydes	Phenols	Other
0.08%	0.00%	1.14%	0.00%	0.00%





RT: 10.39 - 25.17



[illegible]