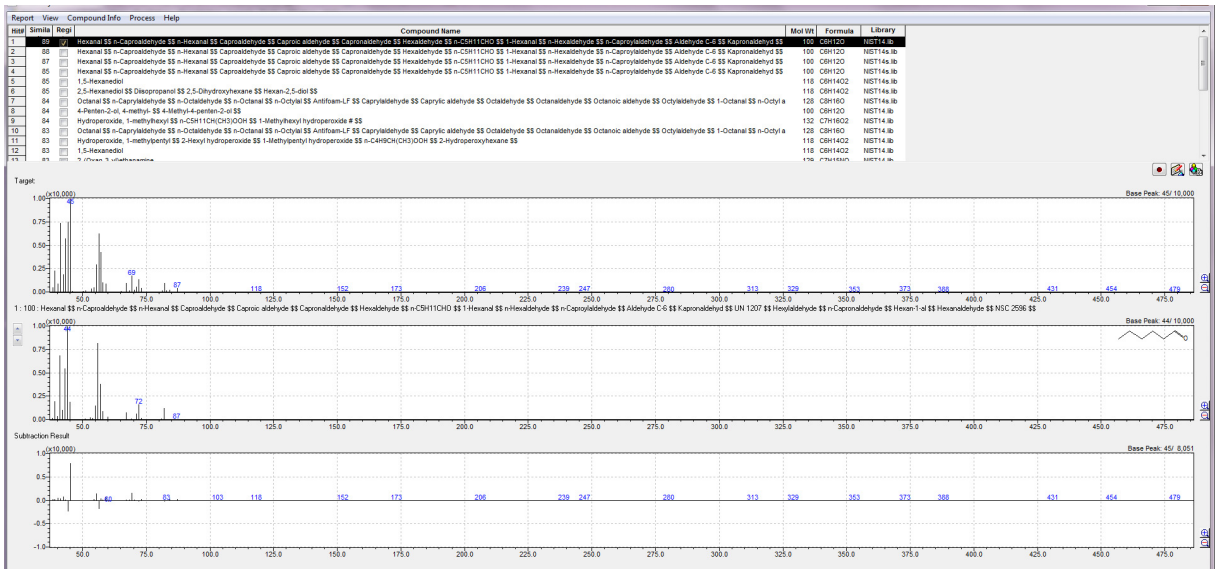
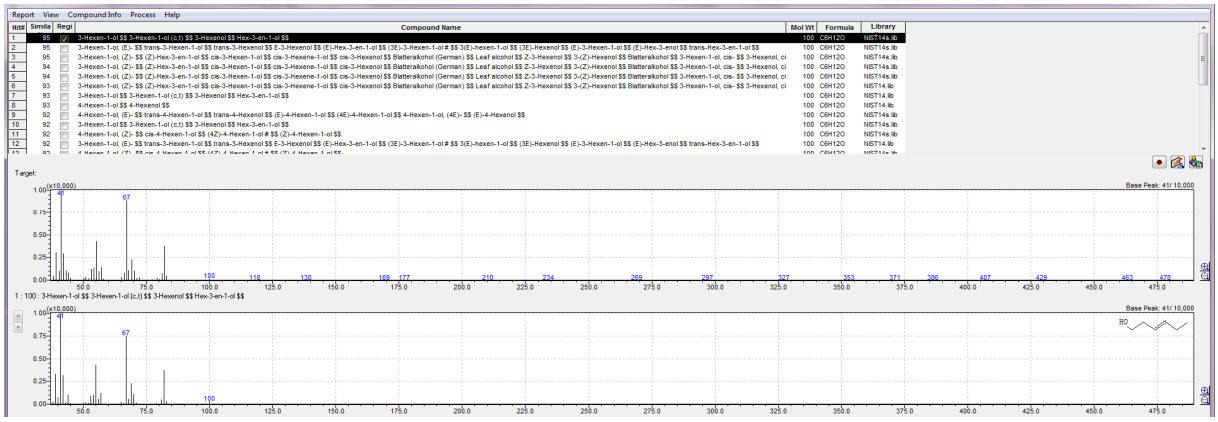
Supplementary Material S1. Comparison of the identified organic compounds (VOCs) with the mass spectral library.

Numbers 1-18 correspond with Table 1.

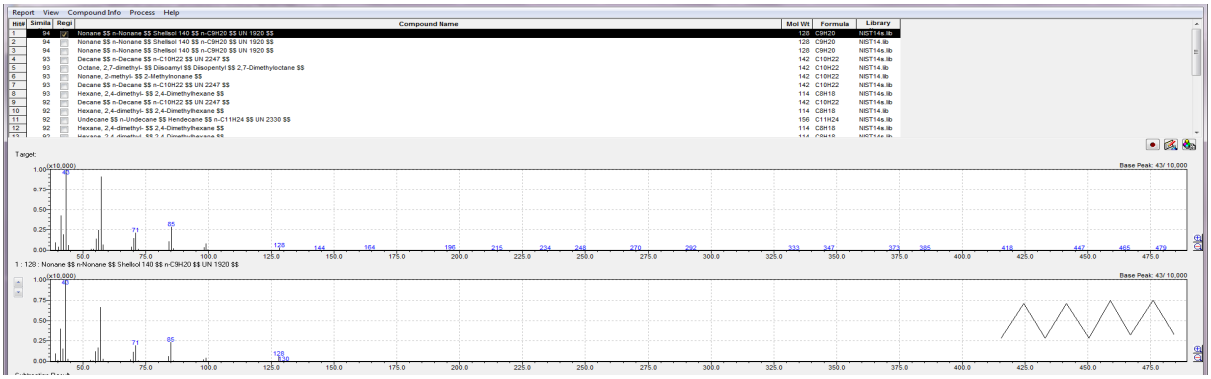
1.



2.



3.



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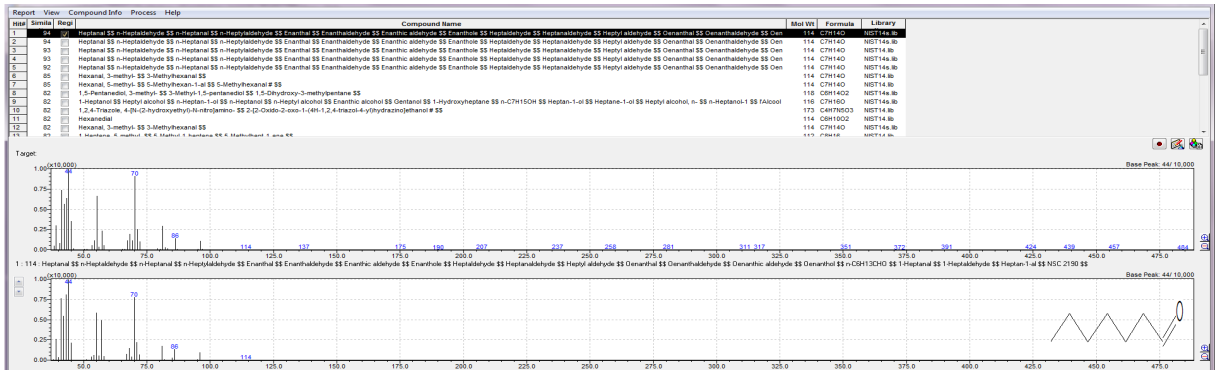
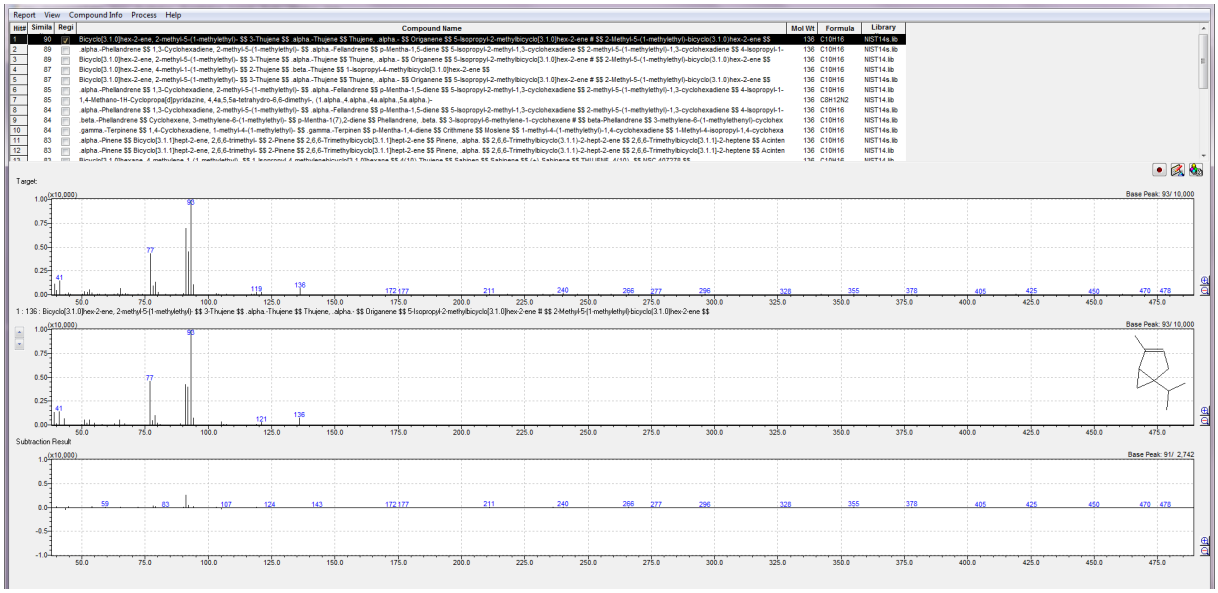
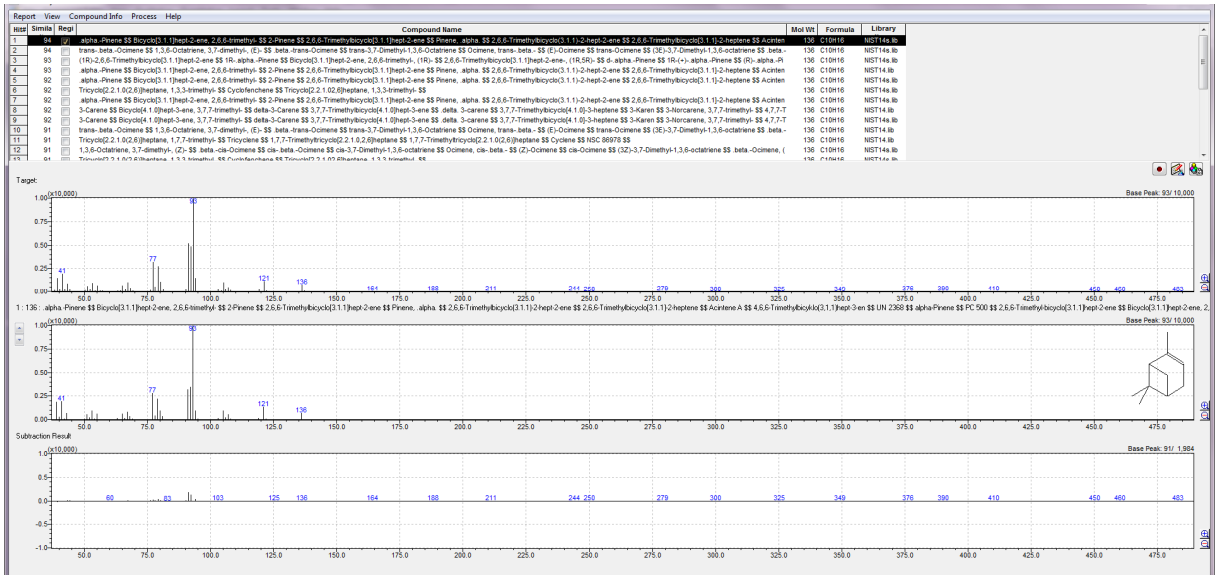


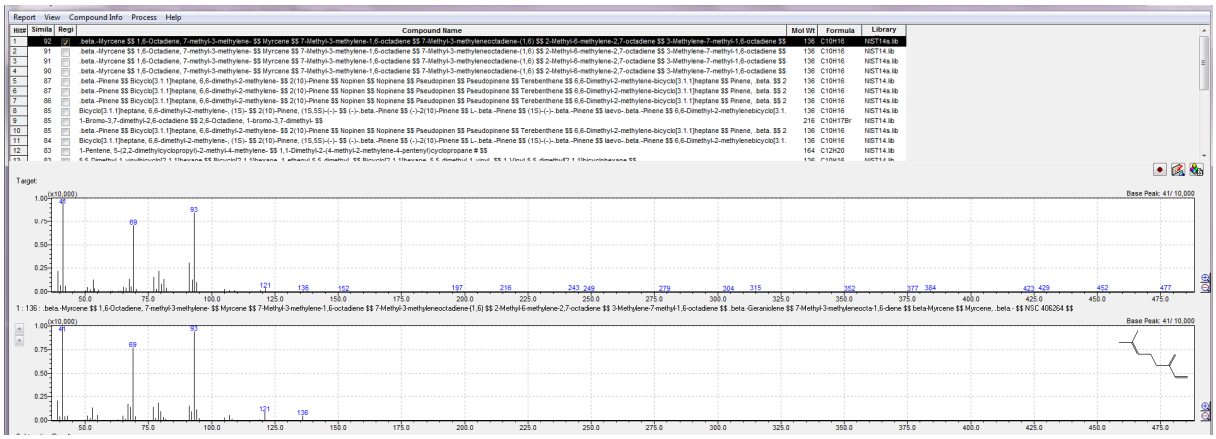
5.



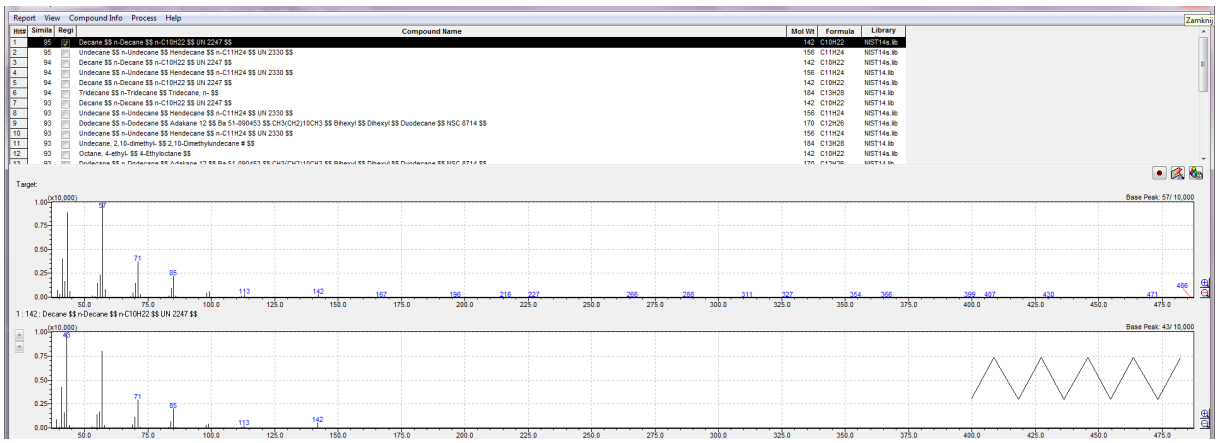
6.



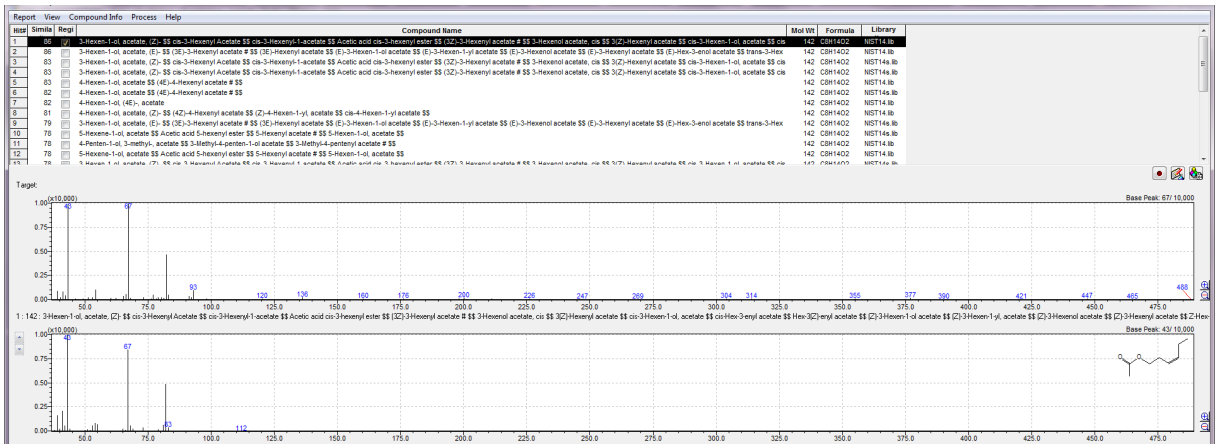
7.


Report View Compound Info Process Help
Hits Simila Regi Compound Name Mol Wt Formula Library
1 92 beta.-Myrcene $$ 1,6-Octadiene, 7-methyl-3-methylene- $$ Myrcene $$ 7-Methyl-3-methylene-1,6-octadiene $$ 7-Methyl-3-methyleneoctadiene-(1,6) $$ 2-Methyl-6-methylene-2,7-octadiene $$ 3-Methylene-7-methyl-1,6-octadiene $$ 136 C10H16 NIST14s.lib
2 91 beta.-Myrcene $$ 1,6-Octadiene, 7-methyl-3-methylene- $$ Myrcene $$ 7-Methyl-3-methylene-1,6-octadiene $$ 7-Methyl-3-methyleneoctadiene-(1,6) $$ 2-Methyl-6-methylene-2,7-octadiene $$ 3-Methylene-7-methyl-1,6-octadiene $$ 136 C10H16 NIST14.lib
3 91 beta.-Myrcene $$ 1,6-Octadiene, 7-methyl-3-methylene- $$ Myrcene $$ 7-Methyl-3-methylene-1,6-octadiene $$ 7-Methyl-3-methyleneoctadiene-(1,6) $$ 2-Methyl-6-methylene-2,7-octadiene $$ 3-Methylene-7-methyl-1,6-octadiene $$ 136 C10H16 NIST14s.lib
4 90 beta.-Myrcene $$ 1,6-Octadiene, 7-methyl-3-methylene- $$ Myrcene $$ 7-Methyl-3-methylene-1,6-octadiene $$ 7-Methyl-3-methyleneoctadiene-(1,6) $$ 2-Methyl-6-methylene-2,7-octadiene $$ 3-Methylene-7-methyl-1,6-octadiene $$ 136 C10H16 NIST14.lib
5 87 beta.-Pinene $$ Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- $$ 2(10)-Pinene $$ Nopinen $$ Nopinene $$ Pseudopinen $$ Pseudopinene $$ Terebenthene $$ 6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane $$ Pinene, beta. $$ 2 136 C10H16 NIST14.lib
6 87 beta.-Pinene $$ Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- $$ 2(10)-Pinene $$ Nopinen $$ Nopinene $$ Pseudopinen $$ Pseudopinene $$ Terebenthene $$ 6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane $$ Pinene, beta. $$ 2 136 C10H16 NIST14s.lib
7 86 beta.-Pinene $$ Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- $$ 2(10)-Pinene $$ Nopinen $$ Nopinene $$ Pseudopinen $$ Pseudopinene $$ Terebenthene $$ 6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane $$ Pinene, beta. $$ 2 136 C10H16 NIST14.lib
8 85 Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)- $$ 2(10)-Pinene, (1S,5S)-(-)- $$ (-)-.beta.-Pinene $$ (-)-2(10)-Pinene $$ L-.beta.-Pinene $$ (1S)-(-)-.beta.-Pinene $$ laevo-.beta.-Pinene $$ 6,6-Dimethyl-2-methylenebicyclo[3.1. 136 C10H16 NIST14s.lib
9 85 1-Bromo-3,7-dimethyl-2,6-octadiene $$ 2,6-Octadiene, 1-bromo-3,7-dimethyl- $$ 216 C10H17Br NIST14.lib
10 85 beta.-Pinene $$ Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene- $$ 2(10)-Pinene $$ Nopinen $$ Nopinene $$ Pseudopinen $$ Pseudopinene $$ Terebenthene $$ 6,6-Dimethyl-2-methylene-bicyclo[3.1.1]heptane $$ Pinene, beta. $$ 2 136 C10H16 NIST14s.lib
11 84 Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-, (1S)- $$ 2(10)-Pinene, (1S,5S)-(-)- $$ (-)-.beta.-Pinene $$ (-)-2(10)-Pinene $$ L-.beta.-Pinene $$ (1S)-(-)-.beta.-Pinene $$ laevo-.beta.-Pinene $$ 6,6-Dimethyl-2-methylenebicyclo[3.1. 136 C10H16 NIST14.lib
12 83 1-Pentene, 5-(2,2-dimethylcyclopropyl)-2-methyl-4-methylene- $$ 1,1-Dimethyl-2-(4-methyl-2-methylene-4-pentenyl)cyclopropane # $$ 164 C12H20 NIST14.lib
Target:
Base Peak: 41/ 10,000
1 : 136 : .beta.-Myrcene $$ 1,6-Octadiene, 7-methyl-3-methylene- $$ Myrcene $$ 7-Methyl-3-methylene-1,6-octadiene $$ 7-Methyl-3-methyleneoctadiene-(1,6) $$ 2-Methyl-6-methylene-2,7-octadiene $$ 3-Methylene-7-methyl-1,6-octadiene $$ .beta.-Geraniolene $$ 7-Methyl-3-methyleneocta-1,6-diene $$ beta-Myrcene $$ Myrcene, .beta.- $$ NSC 406264 $$
Base Peak: 41/ 10,000

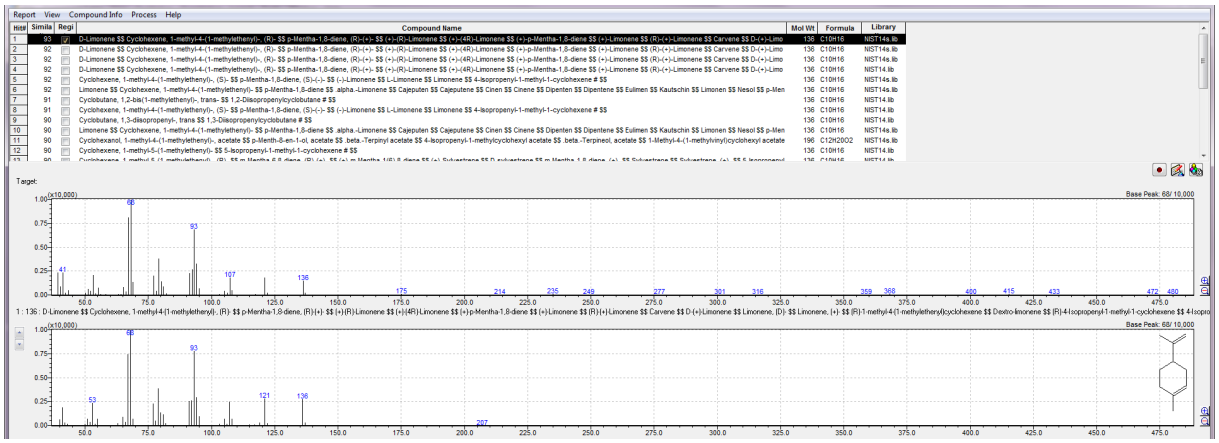
8.


Report View Compound Info Process Help
Zamknij
Hits Simila Regi Compound Name Mol Wt Formula Library
1 95 Decane $$ n-Decane $$ n-C10H22 $$ UN 2247 $$ 142 C10H22 NIST14s.lib
2 95 Undecane $$ n-Undecane $$ Hendecane $$ n-C11H24 $$ UN 2330 $$ 156 C11H24 NIST14s.lib
3 94 Decane $$ n-Decane $$ n-C10H22 $$ UN 2247 $$ 142 C10H22 NIST14s.lib
4 94 Undecane $$ n-Undecane $$ Hendecane $$ n-C11H24 $$ UN 2330 $$ 156 C11H24 NIST14.lib
5 94 Decane $$ n-Decane $$ n-C10H22 $$ UN 2247 $$ 142 C10H22 NIST14s.lib
6 94 Tridecane $$ n-Tridecane $$ Tridecane, n- $$ 184 C13H28 NIST14.lib
7 93 Decane $$ n-Decane $$ n-C10H22 $$ UN 2247 $$ 142 C10H22 NIST14.lib
8 93 Undecane $$ n-Undecane $$ Hendecane $$ n-C11H24 $$ UN 2330 $$ 156 C11H24 NIST14s.lib
9 93 Dodecane $$ n-Dodecane $$ Adakane 12 $$ Ba 51-990453 $$ CH3(CH2)10CH3 $$ Bihexyl $$ Dihexyl $$ Duodecane $$ NSC 8714 $$ 170 C12H26 NIST14s.lib
10 93 Undecane $$ n-Undecane $$ Hendecane $$ n-C11H24 $$ UN 2330 $$ 156 C11H24 NIST14s.lib
11 93 Undecane, 2,10-dimethyl- $$ 2,10-Dimethylundecane # $$ 184 C13H28 NIST14.lib
12 93 Octane, 4-ethyl- $$ 4-Ethyloctane $$ 142 C10H22 NIST14s.lib
Target:
Base Peak: 57/ 10,000
1 : 142 : Decane $$ n-Decane $$ n-C10H22 $$ UN 2247 $$
Base Peak: 43/ 10,000

9.


Report View Compound Info Process Help
Hits Simila Regi Compound Name Mol Wt Formula Library
1 86 3-Hexen-1-ol, acetate, (Z)- $$ cis-3-Hexenyl Acetate $$ cis-3-Hexenyl-1-acetate $$ Acetic acid cis-3-hexenyl ester $$ (3Z)-3-Hexenyl acetate # $$ 3-Hexenol acetate, cis $$ 3(Z)-Hexenyl acetate $$ cis-3-Hexen-1-ol, acetate $$ cis 142 C8H14O2 NIST14.lib
2 86 3-Hexen-1-ol, acetate, (E)- $$ (3E)-3-Hexenyl acetate # $$ (3E)-Hexenyl acetate $$ (E)-3-Hexen-1-ol acetate $$ (E)-3-Hexen-1-yl acetate $$ (E)-3-Hexenol acetate $$ (E)-3-Hexenyl acetate $$ (E)-Hex-3-enol acetate $$ trans-3-Hex 142 C8H14O2 NIST14.lib
3 83 3-Hexen-1-ol, acetate, (Z)- $$ cis-3-Hexenyl Acetate $$ cis-3-Hexenyl-1-acetate $$ Acetic acid cis-3-hexenyl ester $$ (3Z)-3-Hexenyl acetate # $$ 3-Hexenol acetate, cis $$ 3(Z)-Hexenyl acetate $$ cis-3-Hexen-1-ol, acetate $$ cis 142 C8H14O2 NIST14s.lib
4 83 3-Hexen-1-ol, acetate, (Z)- $$ cis-3-Hexenyl Acetate $$ cis-3-Hexenyl-1-acetate $$ Acetic acid cis-3-hexenyl ester $$ (3Z)-3-Hexenyl acetate # $$ 3-Hexenol acetate, cis $$ 3(Z)-Hexenyl acetate $$ cis-3-Hexen-1-ol, acetate $$ cis 142 C8H14O2 NIST14.lib
5 83 4-Hexen-1-ol, acetate $$ (4E)-4-Hexenyl acetate # $$ 142 C8H14O2 NIST14.lib
6 82 4-Hexen-1-ol, acetate $$ (4E)-4-Hexenyl acetate # $$ 142 C8H14O2 NIST14s.lib
7 82 4-Hexen-1-ol, (4E)-, acetate 142 C8H14O2 NIST14.lib
8 81 4-Hexen-1-ol, acetate, (Z)- $$ (4Z)-4-Hexenyl acetate $$ (Z)-4-Hexen-1-yl, acetate $$ cis-4-Hexen-1-yl acetate $$ 142 C8H14O2 NIST14.lib
9 79 3-Hexen-1-ol, acetate, (E)- $$ (3E)-3-Hexenyl acetate # $$ (3E)-Hexenyl acetate $$ (E)-3-Hexen-1-ol acetate $$ (E)-3-Hexen-1-yl acetate $$ (E)-3-Hexenol acetate $$ (E)-3-Hexenyl acetate $$ (E)-Hex-3-enol acetate $$ trans-3-Hex 142 C8H14O2 NIST14s.lib
10 78 5-Hexene-1-ol, acetate $$ Acetic acid 5-hexenyl ester $$ 5-Hexenyl acetate # $$ 5-Hexen-1-ol, acetate $$ 142 C8H14O2 NIST14s.lib
11 78 4-Penten-1-ol, 3-methyl-, acetate $$ 3-Methyl-4-penten-1-ol acetate $$ 3-Methyl-4-pentenyl acetate # $$ 142 C8H14O2 NIST14.lib
12 78 5-Hexene-1-ol, acetate $$ Acetic acid 5-hexenyl ester $$ 5-Hexenyl acetate # $$ 5-Hexen-1-ol, acetate $$ 142 C8H14O2 NIST14.lib
Target:
Base Peak: 67/ 10,000
1 : 142 : 3-Hexen-1-ol, acetate, (Z)- $$ cis-3-Hexenyl Acetate $$ cis-3-Hexenyl-1-acetate $$ Acetic acid cis-3-hexenyl ester $$ (3Z)-3-Hexenyl acetate # $$ 3-Hexenol acetate, cis $$ 3(Z)-Hexenyl acetate $$ cis-3-Hexen-1-ol, acetate $$ cis-Hex-3-enyl acetate $$ Hex-3(Z)-enyl acetate $$ (Z)-3-Hexen-1-ol acetate $$ (Z)-3-Hexen-1-yl, acetate $$ (Z)-3-Hexenol acetate $$ (Z)-3-Hexenyl acetate $$ Z-Hex
Base Peak: 43/ 10,000

10.



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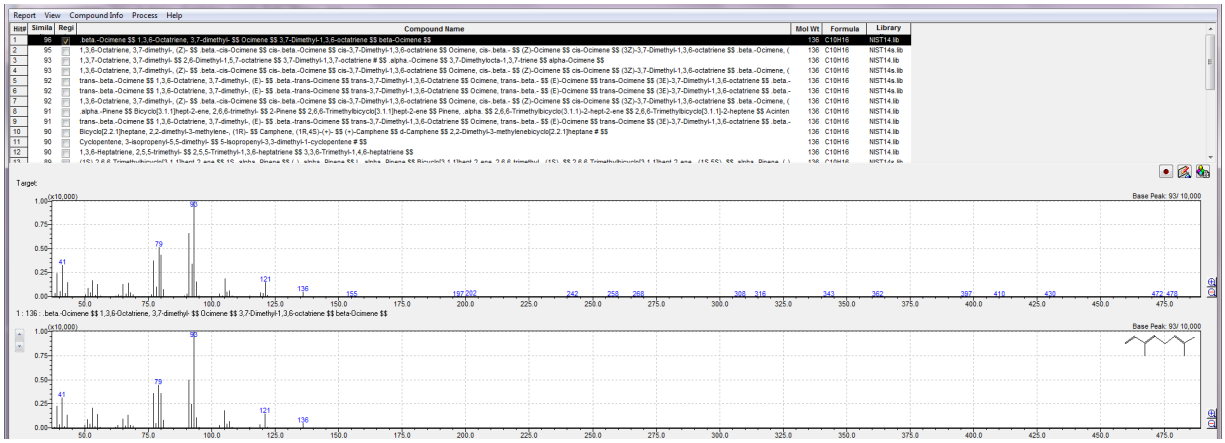

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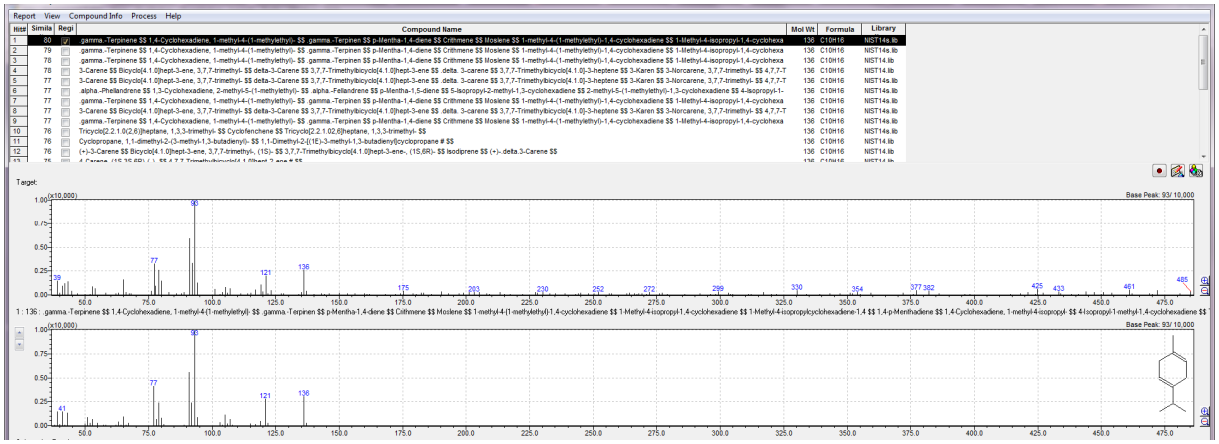
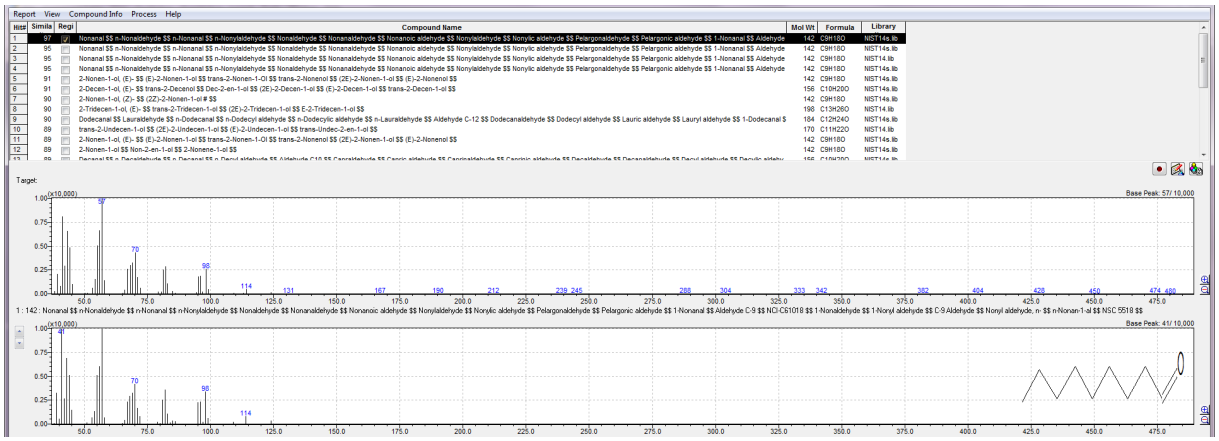
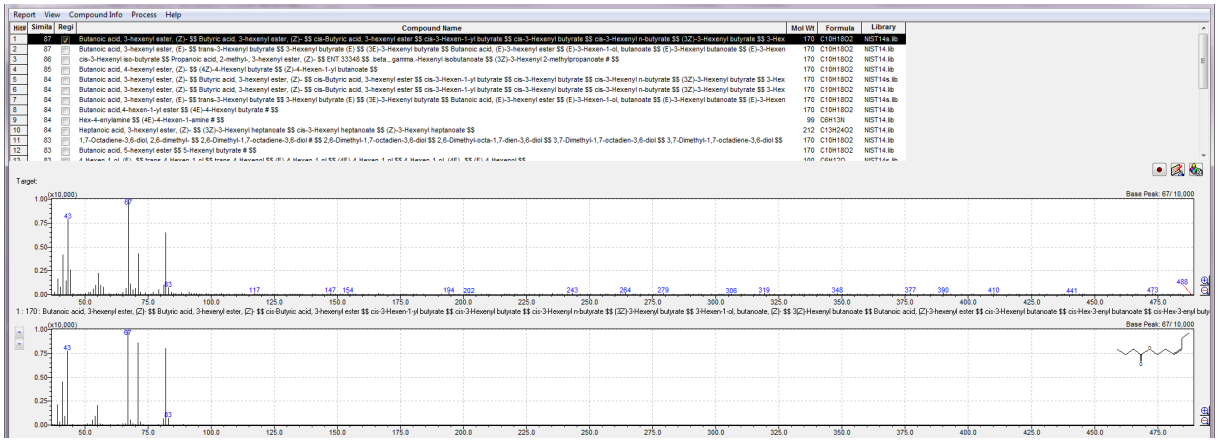


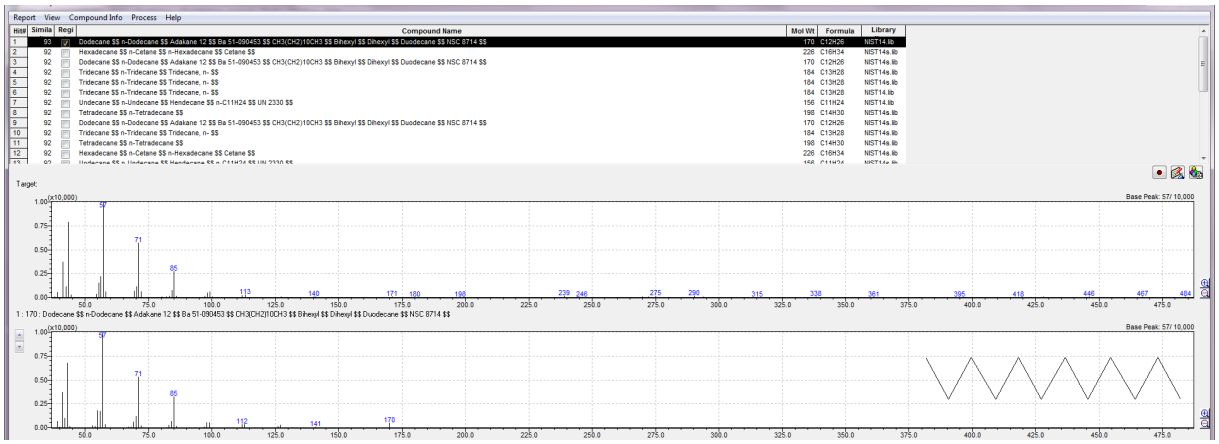
13.


Report View Compound Info Process Help
Hit# Simila Regi Compound Name Mol Wt Formula Library
1 97 Nonanal $$ n-Nonaldehyde $$ n-Nonanal $$ n-Nonylaldehyde $$ Nonaldehyde $$ Nonanaldehyde $$ Nonanoic aldehyde $$ Nonylaldehyde $$ Nonylic aldehyde $$ Pelargonaldehyde $$ Pelargonic aldehyde $$ 1-Nonanal $$ Aldehyde 142 C9H18O NIST14s.lib
2 95 Nonanal $$ n-Nonaldehyde $$ n-Nonanal $$ n-Nonylaldehyde $$ Nonaldehyde $$ Nonanaldehyde $$ Nonanoic aldehyde $$ Nonylaldehyde $$ Nonylic aldehyde $$ Pelargonaldehyde $$ Pelargonic aldehyde $$ 1-Nonanal $$ Aldehyde 142 C9H18O NIST14s.lib
3 95 Nonanal $$ n-Nonaldehyde $$ n-Nonanal $$ n-Nonylaldehyde $$ Nonaldehyde $$ Nonanaldehyde $$ Nonanoic aldehyde $$ Nonylaldehyde $$ Nonylic aldehyde $$ Pelargonaldehyde $$ Pelargonic aldehyde $$ 1-Nonanal $$ Aldehyde 142 C9H18O NIST14.lib
4 95 Nonanal $$ n-Nonaldehyde $$ n-Nonanal $$ n-Nonylaldehyde $$ Nonaldehyde $$ Nonanaldehyde $$ Nonanoic aldehyde $$ Nonylaldehyde $$ Nonylic aldehyde $$ Pelargonaldehyde $$ Pelargonic aldehyde $$ 1-Nonanal $$ Aldehyde 142 C9H18O NIST14s.lib
5 91 2-Nonen-1-ol, (E)- $$ (E)-2-Nonen-1-ol $$ trans-2-Nonen-1-Ol $$ trans-2-Nonenol $$ (2E)-2-Nonen-1-ol $$ (E)-2-Nonenol $$ 142 C9H18O NIST14s.lib
6 91 2-Decen-1-ol, (E)- $$ trans-2-Decenol $$ Dec-2-en-1-ol $$ (2E)-2-Decen-1-ol $$ (E)-2-Decen-1-ol $$ trans-2-Decen-1-ol $$ 156 C10H20O NIST14s.lib
7 90 2-Nonen-1-ol, (Z)- $$ (2Z)-2-Nonen-1-ol # $$ 142 C9H18O NIST14s.lib
8 90 2-Tridecen-1-ol, (E)- $$ trans-2-Tridecen-1-ol $$ (2E)-2-Tridecen-1-ol $$ E-2-Tridecen-1-ol $$ 198 C13H26O NIST14.lib
9 90 Dodecanal $$ Laurialdehyde $$ n-Dodecanal $$ n-Dodecyl aldehyde $$ n-Dodecylic aldehyde $$ n-Lauraldehyde $$ Aldehyde C-12 $$ Dodecanaldehyde $$ Dodecyl aldehyde $$ Lauric aldehyde $$ Lauryl aldehyde $$ 1-Dodecanal $ 184 C12H24O NIST14s.lib
10 89 trans-2-Undecen-1-ol $$ (2E)-2-Undecen-1-ol $$ (E)-2-Undecen-1-ol $$ trans-Undec-2-en-1-ol $$ 170 C11H22O NIST14.lib
11 89 2-Nonen-1-ol, (E)- $$ (E)-2-Nonen-1-ol $$ trans-2-Nonen-1-Ol $$ trans-2-Nonenol $$ (2E)-2-Nonen-1-ol $$ (E)-2-Nonenol $$ 142 C9H18O NIST14s.lib
12 89 2-Nonen-1-ol $$ Non-2-en-1-ol $$ 2-Nonene-1-ol $$ 142 C9H18O NIST14s.lib
Target:
Base Peak: 57/ 10,000
1 : 142 : Nonanal $$ n-Nonaldehyde $$ n-Nonanal $$ n-Nonylaldehyde $$ Nonaldehyde $$ Nonanaldehyde $$ Nonanoic aldehyde $$ Nonylaldehyde $$ Nonylic aldehyde $$ Pelargonaldehyde $$ Pelargonic aldehyde $$ 1-Nonanal $$ Aldehyde C-9 $$ NCI-C61018 $$ 1-Nonaldehyde $$ 1-Nonyl aldehyde $$ C-9 Aldehyde $$ Nonyl aldehyde, n- $$ n-Nonan-1-al $$ NSC 5518 $$
Base Peak: 41/ 10,000

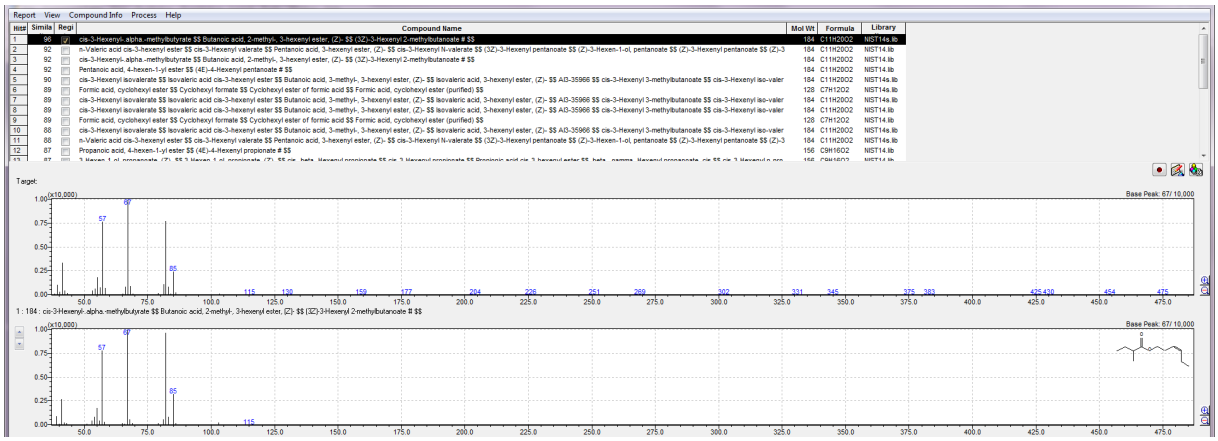
14.


Report View Compound Info Process Help
Hit# Simila Regi Compound Name Mol Wt Formula Library
1 87 Butanoic acid, 3-hexenyl ester, (Z)- $$ Butyric acid, 3-hexenyl ester, (Z)- $$ cis-Butyric acid, 3-hexenyl ester $$ cis-3-Hexen-1-yl butyrate $$ cis-3-Hexenyl butyrate $$ cis-3-Hexenyl n-butyrate $$ (3Z)-3-Hexenyl butyrate $$ 3-Hex 170 C10H18O2 NIST14s.lib
2 87 Butanoic acid, 3-hexenyl ester, (E)- $$ trans-3-Hexenyl butyrate $$ 3-Hexenyl butyrate (E) $$ (3E)-3-Hexenyl butyrate $$ Butanoic acid, (E)-3-hexenyl ester $$ (E)-3-Hexen-1-ol, butanoate $$ (E)-3-Hexenyl butanoate $$ (E)-3-Hexen 170 C10H18O2 NIST14.lib
3 86 cis-3-Hexenyl iso-butyrate $$ Propanoic acid, 2-methyl-, 3-hexenyl ester, (Z)- $$ ENT 33348 $$ beta, gamma.-Hexenyl isobutanoate $$ (3Z)-3-Hexenyl 2-methylpropanoate # $$ 170 C10H18O2 NIST14.lib
4 85 Butanoic acid, 4-hexenyl ester, (Z)- $$ (4Z)-4-Hexenyl butyrate $$ (Z)-4-Hexen-1-yl butanoate $$ 170 C10H18O2 NIST14.lib
5 84 Butanoic acid, 3-hexenyl ester, (Z)- $$ Butyric acid, 3-hexenyl ester, (Z)- $$ cis-Butyric acid, 3-hexenyl ester $$ cis-3-Hexen-1-yl butyrate $$ cis-3-Hexenyl butyrate $$ cis-3-Hexenyl n-butyrate $$ (3Z)-3-Hexenyl butyrate $$ 3-Hex 170 C10H18O2 NIST14.lib
6 84 Butanoic acid, 3-hexenyl ester, (Z)- $$ Butyric acid, 3-hexenyl ester, (Z)- $$ cis-Butyric acid, 3-hexenyl ester $$ cis-3-Hexen-1-yl butyrate $$ cis-3-Hexenyl butyrate $$ cis-3-Hexenyl n-butyrate $$ (3Z)-3-Hexenyl butyrate $$ 3-Hex 170 C10H18O2 NIST14.lib
7 84 Butanoic acid, 3-hexenyl ester, (E)- $$ trans-3-Hexenyl butyrate $$ 3-Hexenyl butyrate (E) $$ (3E)-3-Hexenyl butyrate $$ Butanoic acid, (E)-3-hexenyl ester $$ (E)-3-Hexen-1-ol, butanoate $$ (E)-3-Hexenyl butanoate $$ (E)-3-Hexen 170 C10H18O2 NIST14.lib
8 84 Butanoic acid,4-hexen-1-yl ester $$ (4E)-4-Hexenyl butyrate # $$ 170 C10H18O2 NIST14.lib
9 84 Hex-4-enylamine $$ (4E)-4-Hexen-1-amine # $$ 99 C6H13N NIST14.lib
10 84 Heptanoic acid, 3-hexenyl ester, (Z)- $$ (3Z)-3-Hexenyl heptanoate $$ cis-3-Hexenyl heptanoate $$ (Z)-3-Hexenyl heptanoate $$ 212 C13H24O2 NIST14.lib
11 83 1,7-Octadiene-3,6-diol, 2,6-dimethyl- $$ 2,6-Dimethyl-1,7-octadiene-3,6-diol # $$ 2,6-Dimethyl-1,7-octadien-3,6-diol $$ 2,6-Dimethyl-octa-1,7-dien-3,6-diol $$ 3,7-Dimethyl-1,7-octadien-3,6-diol $$ 3,7-Dimethyl-1,7-octadiene-3,6-diol $$ 170 C10H18O2 NIST14.lib
12 83 Butanoic acid, 5-hexenyl ester $$ 5-Hexenyl butyrate # $$ 170 C10H18O2 NIST14.lib
Target:
Base Peak: 67/ 10,000
1 : 170 : Butanoic acid, 3-hexenyl ester, (Z)- $$ Butyric acid, 3-hexenyl ester, (Z)- $$ cis-Butyric acid, 3-hexenyl ester $$ cis-3-Hexen-1-yl butyrate $$ cis-3-Hexenyl butyrate $$ cis-3-Hexenyl n-butyrate $$ (3Z)-3-Hexenyl butyrate $$ 3-Hexen-1-ol, butanoate, (Z)- $$ 3[Z)-Hexenyl butanoate $$ Butanoic acid, (Z)-3-hexenyl ester $$ cis-3-Hexenyl butanoate $$ cis-Hex-3-enyl buty
Base Peak: 67/ 10,000

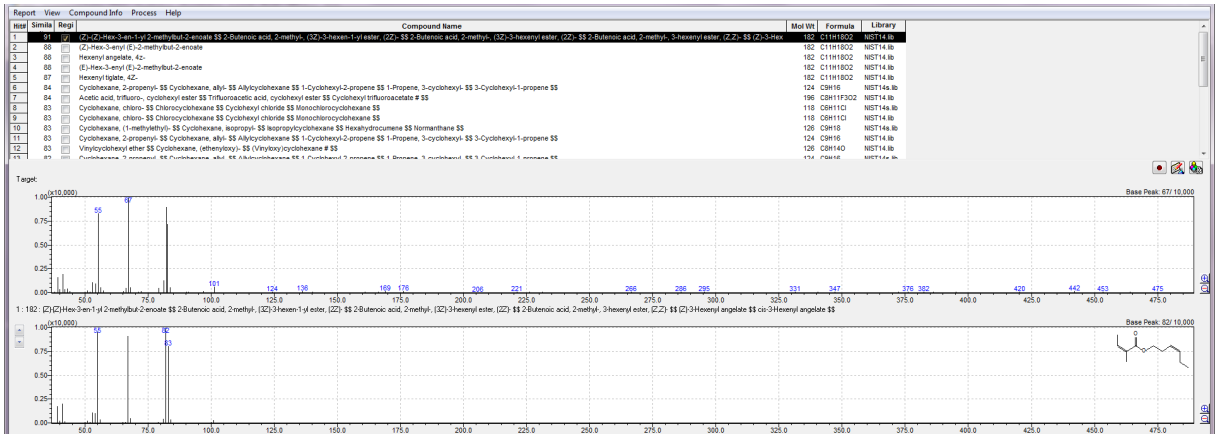
15.


Report View Compound Info Process Help
Hit# Simila Regi Compound Name Mol Wt Formula Library
1 93 Dodecane $$ n-Dodecane $$ Adakane 12 $$ Ba 51-090453 $$ CH3(CH2)10CH3 $$ Bihexyl $$ Dihexyl $$ Duodecane $$ NSC 8714 $$ 170 C12H26 NIST14.lib
2 92 Hexadecane $$ n-Cetane $$ n-Hexadecane $$ Cetane $$ 226 C16H34 NIST14.lib
3 92 Dodecane $$ n-Dodecane $$ Adakane 12 $$ Ba 51-090453 $$ CH3(CH2)10CH3 $$ Bihexyl $$ Dihexyl $$ Duodecane $$ NSC 8714 $$ 170 C12H26 NIST14.lib
4 92 Tridecane $$ n-Tridecane $$ Tridecane, n- $$ 184 C13H28 NIST14s.lib
5 92 Tridecane $$ n-Tridecane $$ Tridecane, n- $$ 184 C13H28 NIST14s.lib
6 92 Tridecane $$ n-Tridecane $$ Tridecane, n- $$ 184 C13H28 NIST14.lib
7 92 Undecane $$ n-Undecane $$ Hendecane $$ n-C11H24 $$ UN 2330 $$ 156 C11H24 NIST14.lib
8 92 Tetradecane $$ n-Tetradecane $$ 198 C14H30 NIST14s.lib
9 92 Dodecane $$ n-Dodecane $$ Adakane 12 $$ Ba 51-090453 $$ CH3(CH2)10CH3 $$ Bihexyl $$ Dihexyl $$ Duodecane $$ NSC 8714 $$ 170 C12H26 NIST14s.lib
10 92 Tridecane $$ n-Tridecane $$ Tridecane, n- $$ 184 C13H28 NIST14s.lib
11 92 Tetradecane $$ n-Tetradecane $$ 198 C14H30 NIST14s.lib
12 92 Hexadecane $$ n-Cetane $$ n-Hexadecane $$ Cetane $$ 226 C16H34 NIST14s.lib
Target:
Base Peak: 57/ 10,000
1 : 170 : Dodecane $$ n-Dodecane $$ Adakane 12 $$ Ba 51-090453 $$ CH3(CH2)10CH3 $$ Bihexyl $$ Dihexyl $$ Duodecane $$ NSC 8714 $$
Base Peak: 57/ 10,000

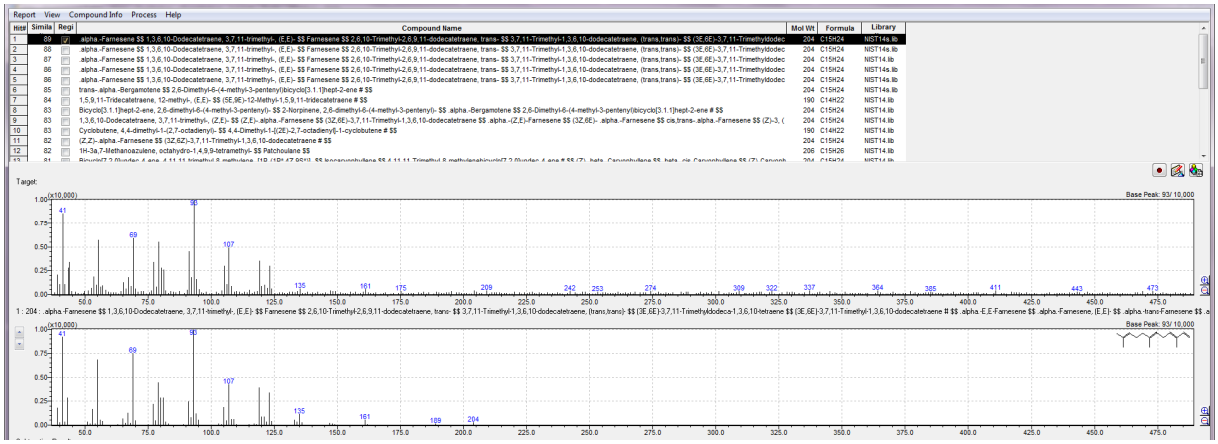
16.



17.



18.



Supplementary material S2. The description of ecological indices used for data analysis.

The **dominance index (*d*)** of each species was calculated according to the formula:

$$d = \frac{\mathrm{n}_i}{\mathrm{N}}$$

where n_i is the abundance of individuals belonging to the ith taxa and N – the total abundance of all taxa.

The **Berger-Parker dominance index (*D*)** was calculated according to the formula:

$$D = \frac{\mathrm{n}_{max}}{\mathrm{N}}$$

where n_{max} is the abundance of the most abundant species taxa and N – is the total abundance of all taxa.

The **Shannon-Weaver (*H'*)** index was calculated according to the following formula:

$$H' = -\sum_{i=1}^{R} \mathrm{D}\ \ln d$$

where p_i is the proportion of individuals belonging to the ith taxa.

The **Pielou (*J*)** index was calculated according to the formula:

$$J = \frac{\mathrm{H}'}{\ln(S)}$$

where H' is the Shannon-Weaver index and *S* is the total number of species in a sample.

The **Margalef's species richness (*S*)** index was calculated according to the following formula:

$$S = \frac{s-1}{\ln(N)}$$

where *s* is the total number of species in a sample and *N* the total number of individuals in the sample.

The **species stability (*C*)** was calculated according to the following formula:

$$C = 200\frac{n_a}{\mathrm{N}}$$

where n_a is the total number of samples with species and N is the total number of samples.

The **Jaccard similarity index (*SJ*)** was calculated according to the formula:

$$SJ = \frac{C}{\mathrm{a}+\mathrm{b}+\mathrm{c}}$$

where *c* is the number of shared species between the two sites and *a* and *b* are the number of species unique to each site.

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