

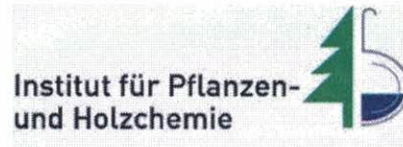


Technische Universität Dresden, Fachrichtung Forstwissenschaften,
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AZ:

Tharandt, 26. November 2020

Analysen der Extrakte von *Pinus sylvestris* aus Brandenburg

Sehr geehrter Herr Topf,

beiliegend schicke ich Ihnen die Analysen der von Ihnen isolierten ätherischen Öle. Die Zusammensetzung finden Sie im beiliegenden Probenprotokoll. Wichtige Inhaltsstoffe sind Caren und Pinen.

Ich halte das Probenmaterial für äußerst interessant. Vor allem die Gewinnung auf rein wässrigem Weg führt zur Isolierung von unveränderten Inhaltsstoffen. Ich freue mich auf die weitere Zusammenarbeit.

Mit freundlichen Grüßen

Prof. Dr. habil. Steffen Fischer
Institutsdirektor

Anlage: Probenprotokoll

Postadresse (Briefe)
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TU Dresden,
Pienner Straße 19,
01737 Tharandt

Internet <https://tu-dresden.de>

Besucheradresse
Pienner Straße 19,
01737 Tharandt

*Zufahrt für
Rollstuhlfahrer
zum EG über Rampe
Haupteingang*

Kein Zugang für elektronisch signierte sowie verschlüsselte elektronische Dokumente.

Steuernummer
(Inland)
203/149/02549

Umsatzsteuer-Id-Nr.
(Ausland)
DE 188 369 991

Bankverbindung
Commerzbank AG,
Filiale Dresden

IBAN
DE52 8504 0000 0800 4004 00
BIC COBADEFF850

Mitglied von:



**DRESDEN
concept**
Exzellenz aus
Wissenschaft
und Kultur

Kiefer ÖL Hr. Topf

D:\Data\Flüssig\2020\5977_201117_001.D

D:\MassHunter\GCMS\1\methods\Extrakt Kiefer.M

INT TIC: 5977_201117_001.D\data.ms

Oven Temperature 40°C -5°C/min-300°C/ 10 min

Back SS Inlet He 280°C, Split 50:1, Liner Agilent 5183-4691: 990 µL (Split, straight liner with glass wool)

Fri Nov 20 13:01:24 2020

PK	RT	Area Pct	Library/ID	CAS	Qual
1	3.544	0.10	Toluene	000108-88-3	95
2	6.921	0.33	α-Pinene	002867-05-2	91
3	7.426	23.39	.alpha.-Pinene	000080-56-8	94
4	7.669	1.16	Camphene	000079-92-5	96
5	7.918	0.06	Benzaldehyde	000100-52-7	97
6	8.209	1.29	1,3,5-Cycloheptatriene, 3,7,7-trimethyl-	003479-89-8	93
7	8.464	6.76	Bicyclo[3.1.1]heptane, 6,6-dimethyl-2-methylene-,	018172-67-3	94
8	8.684	1.10	.beta.-Myrcene	000123-35-3	95
9	9.539	22.07	(+)-3-Carene	000498-15-7	95
10	9.788	2.01	Benzene, 1-methyl-3-(1-methylethyl)-	000535-77-3	95
11	9.936	2.82	D-Limonene	005989-27-5	99
12	10.643	0.10	.gamma.-Terpinene	000099-85-4	97
13	11.040	0.04	3-Methyl-4-cyclohexene-1,2-dicarboxylic anhydrid	005333-84-6	59
14	11.301	0.17	2-Carene	000554-61-0	89
15	11.438	0.63	Cyclohexene, 1-methyl-4-(1-methylethylidene)-	000586-62-9	98
16	11.562	0.63	Benzene, 1-methyl-4-(1-methylethenyl)-	001195-32-0	96
17	11.853	1.02	3-Oxatricyclo[4.1.1.0(2,4)]octane, 2,7,7-trimethyl-	001686-14-2	86
18	12.150	0.36	(1,3-Dimethyl-2-methylene-cyclopentyl)-methanol	1000190-16-2	43
19	12.459	0.44	Fenchol	001632-73-1	98
20	12.631	0.09	.alpha.-Campholenal	004501-58-0	80
21	12.821	0.83	Cyclohexene, 1,2-dimethyl-	001674-10-8	42
22	13.135	1.30	2-Methylenebicyclo[2.1.1]hexane	005164-65-8	47
23	13.272	0.83	(+)-2-Bornanone	000464-49-3	98
24	13.491	0.17	Bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-	000465-31-6	98
25	13.622	0.29	Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.	000547-60-4	94
26	14.002	0.64	endo-Borneol	000507-70-0	97
27	14.115	0.66	2-Caren-4-ol	006617-35-2	95
28	14.251	1.80	3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-, (R	020126-76-5	94
29	14.578	2.89	Benzenemethanol, .alpha.,.alpha.,4-trimethyl-	001197-01-9	50
30	14.779	3.77	.alpha.-Terpineol	000098-55-5	90
31	14.946	0.44	trans-Verbenol	001820-09-3	30
32	15.064	0.38	Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1'	001196-01-6	98
33	15.355	0.27	2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	000503-93-5	70
34	15.551	0.25	Benzene, 2-methoxy-1-methyl-4-(1-methylethyl)-	006379-73-3	80
35	15.818	0.04	Acetaldehyde, (3,3-dimethylcyclohexylidene)-, (Z)-	026532-24-1	53
36	15.925	0.09	2-Butanone, 4-phenyl-	002550-26-7	98
37	16.091	0.23	4,7,7-Trimethylbicyclo[4.1.0]hept-3-en-2-one	081800-50-2	91
38	16.299	0.25	trans-2,3-Epoxydecane	054125-39-2	53
39	16.602	0.26	Benzene, 1-methyl-3-(1-methylethyl)-	000535-77-3	45
40	16.803	0.05	Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1.alpha.	004863-59-6	25
41	16.999	0.55	Pentaleno[1,2-b]oxirene, octahydro-, (1a.alpha.,1b	055449-71-3	46

42	17.207	0.39	Bis[bicyclo[3.2.0]hept-2-en-4-yl]ether	1000153-89-5	53
43	17.355	0.32	Cyclohexanemethanol, 4-methylene-	001004-24-6	53
44	17.522	0.37	Spiro[4.5]dec-1-ene	000697-27-8	47
45	17.836	1.18	4,7,7-Trimethylbicyclo[4.1.0]hept-3-en-2-one	081800-50-2	97
46	18.085	0.21	Bicyclo[3.1.1]hept-2-ene-2-carboxaldehyde, 6,6-di	000564-94-3	50
47	18.400	0.81	Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	000508-32-7	87
48	18.513	0.59	Acetamide, N-phenyl-	000103-84-4	58
49	18.792	2.01	Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethyl-	000464-17-5	93
50	19.237	1.09	trans-.beta.-Ocimene	003779-61-1	52
51	19.356	0.27	.alpha.-ylangene	1000374-19-0	98
52	19.522	0.52	.alfa.-Copaene	1000360-33-0	99
53	19.718	0.27	3-Cyclohexene-1-methanol, 5-hydroxy-.alpha.,,alpl	000498-71-5	80
54	19.955	0.11	1,4-Methano-1H-indene, octahydro-4-methyl-8-m	003650-28-0	98
55	20.157	0.96	Methyleugenol	000093-15-2	98
56	20.448	1.37	Longifolene	000475-20-7	99
57	20.614	0.11	.beta.-ylangene	1000374-19-1	99
58	20.804	0.14	8-Hydroxycarvotanacetone	007712-46-1	53
59	20.911	0.30	(1R,2S,6S,7S,8S)-8-Isopropyl-1-methyl-3-methylen	018252-44-3	97
60	21.136	0.05	Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1'	001196-01-6	41
61	21.439	0.28	(E)-.beta.-Famesene	018794-84-8	96
62	21.718	0.11	1,1,3-Trimethyl-1-silacyclo-3-pentene	003528-14-1	25
63	21.825	0.06	2-Propenoic acid, 3-phenyl-, ethyl ester	000103-36-6	95
64	22.038	0.86	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methy	039029-41-9	99
65	22.294	0.06	2-Cyclohexen-1-one, 4-(2-oxopropyl)-	056051-94-6	46
66	22.650	1.99	.alpha.-Muurolene	031983-22-9	99
67	22.816	0.11	Butanoic acid, 3-methyl-, 1,7,7-trimethylbicyclo[2.:	007779-73-9	25
68	22.976	0.29	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methy	039029-41-9	99
69	23.083	0.60	1-Isopropyl-4,7-dimethyl-1,2,3,5,6,8a-hexahydron	016729-01-4	97
70	23.451	0.14	Cyclopentene, 1,2,3-trimethyl-	000473-91-6	25
71	23.629	0.07	.alpha.-Calacorene	021391-99-1	98
72	23.961	0.31	cis-Z-.alpha.-Bisabolene epoxide	1000131-71-2	46
73	24.288	0.13	Acetic acid, 6,6-dimethyl-2-methylene-7-(3-oxobut	1000186-15-5	43
74	24.620	0.27	Caryophyllene oxide	001139-30-6	94
75	24.763	0.09	1,2-Ethanediol, 1,2-dimyrtenyl-	1005182-93-3	22
76	25.107	0.05	1,4-Methanoazulen-9-ol, decahydro-1,5,5,8a-tetra	000465-24-7	94
77	25.249	0.16	(1S,3aS,4S,5S,7aR,8R)-5-Isopropyl-1,7a-dimethyloc	021966-93-8	99
78	25.386	0.14	4,4-Dimethyl-3-(3-methylbut-3-enylidene)-2-meth	079718-83-5	83
79	25.499	0.06	cis-Z-.alpha.-Bisabolene epoxide	1000131-71-2	50
80	26.080	0.22	1-Naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro-1,6-d	133645-25-7	93
81	26.282	0.17	(1S,4S)-4-Isopropyl-1,6-dimethyl-1,2,3,4-tetrahydr	123932-45-6	83
82	26.502	0.08	Epizonarene	041702-63-0	93
83	26.769	0.07	Acetamide, N-phenyl-	000103-84-4	52
84	27.066	0.07	(3R,4aS,8aS)-8a-Methyl-5-methylene-3-(prop-1-en	212394-95-1	38
85	28.686	0.05	Benzyl Benzoate	000120-51-4	95
86	28.823	0.05	2-Methoxybenzoic acid, allyl ester	031994-79-3	44
87	30.781	0.12	Benzamide, 4-fluoro-N-[2-(4-pyridinyl)ethyl]-	1000350-03-4	30
88	30.930	0.05	p-Menth-8-ene, 3-methylene-	1000151-25-7	35
89	31.351	0.14	Benzene, 1,1'-(1-methylethylidene)bis[4-methoxy-	001568-83-8	42
90	31.582	0.16	Benzamide, 4-fluoro-N-[2-(4-pyridinyl)ethyl]-	1000350-03-4	42
91	32.081	0.17	Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,8a,9	001686-67-5	84

92	32.366	0.28	Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,9,10,:	001686-56-2	97
93	32.728	0.13	(3E,5E,7E)-6-Methyl-8-(2,6,6-trimethyl-1-cyclohexe	017974-57-1	53
94	33.357	0.13	Phenanthrene, 7-ethenyl-1,2,3,4,4a,4b,5,6,7,8,10,:	001686-66-4	53
95	33.595	0.18	(Z)-1-Methyl-4-(6-methylhept-5-en-2-ylidene)cyclc	013062-00-5	46
96	33.868	0.05	2,6,9,11-Dodecatetraenal, 2,6,10-trimethyl-, (E,E	017909-77-2	35
97	33.980	0.06	Bicyclo[7.2.0]undec-4-ene, 4,11,11-trimethyl-8-me	000118-65-0	49
98	34.283	0.09	cis-Chrysanthenol	055722-60-6	64
99	34.390	0.04	7-Isopropyl-1,1,4a-trimethyl-1,2,3,4,4a,9,10,10a-o	109680-01-5	99
100	34.871	0.09	Selenofenchone	061849-83-0	44
101	35.334	0.06	trans-2-Caren-4-ol	004017-82-7	46
102	37.358	0.05	Thunbergol	025269-17-4	53
103	37.939	0.06	((1R,4aR,4bS,7R,10aR)-1,4a,7-Trimethyl-7-vinyl-1,2	024563-84-6	90
104	39.275	0.04	Methyl dehydroabietate	001235-74-1	96
		100.00			

Data Path : D:\Data\Flüssig\2020\
Data File : 5977_201117_001.D
Acq On : 17 Nov 2020 12:23
Operator : admin
Sample : Märkisches Kiefernöl Hr. Topf
Misc :
ALS Vial : 1 Sample Multiplier: 1

Search Libraries: D:\MassHunter\Library\NIST14.L Minimum Quality: 90

Unknown Spectrum: Apex

Integration Events: ChemStation Integrator - autoint1.e

Pk#	RT	Area%	Library/ID	Ref#	CAS#	Qual
1	3.544	0.10	D:\MassHunter\Library\NIST14.L Toluene	2476	000108-88-3	95
			Toluene	2482	000108-88-3	94
			Toluene	2481	000108-88-3	93
2	6.921	0.33	D:\MassHunter\Library\NIST14.L Bicyclo[3.1.0]hex-2-ene, 2-methyl- 5-(1-methylethyl)-	16278	002867-05-2	91
			Bicyclo[3.1.0]hex-2-ene, 2-methyl- 5-(1-methylethyl)-	16271	002867-05-2	91
			Bicyclo[3.1.1]hept-2-ene, 3,6,6-tri- methyl-	16207	004889-83-2	86
3	7.425	23.39	D:\MassHunter\Library\NIST14.L .alpha.-Pinene	16070	000080-56-8	94
			(1R)-2,6,6-Trimethylbicyclo[3.1.1] hept-2-ene	16224	007785-70-8	94
			(1R)-2,6,6-Trimethylbicyclo[3.1.1] hept-2-ene	16226	007785-70-8	94
4	7.669	1.16	D:\MassHunter\Library\NIST14.L Camphene	16029	000079-92-5	96
			Camphene	16039	000079-92-5	95
			Bicyclo[2.2.1]heptane, 2,2-dimethyl- 1-3-methylene-, (1S)-	16285	005794-04-7	94
5	7.918	0.06	D:\MassHunter\Library\NIST14.L Benzaldehyde	5152	000100-52-7	97
			Benzaldehyde	5148	000100-52-7	96
			Benzaldehyde	5151	000100-52-7	96
6	8.209	1.29	D:\MassHunter\Library\NIST14.L 1,3,5-Cycloheptatriene, 3,7,7-trimethyl-	15258	003479-89-8	93
			1,3,5-Cycloheptatriene, 3,7,7-trimethyl-	15259	003479-89-8	93
			Benzene, 1-methyl-3-(1-methylethyl)-	15242	000535-77-3	90
7	8.464	6.76	D:\MassHunter\Library\NIST14.L Bicyclo[3.1.1]heptane, 6,6-dimethyl- 1-2-methylene-, (1S)-	16288	018172-67-3	94
			.beta.-Pinene	16055	000127-91-3	94
			.beta.-Pinene	16059	000127-91-3	93
8	8.684	1.10	D:\MassHunter\Library\NIST14.L .beta.-Myrcene	16066	000123-35-3	95
			.beta.-Myrcene	16061	000123-35-3	87
			Bicyclo[3.1.0]hex-2-ene, 4-methyl- 1-(1-methylethyl)-	16276	028634-89-1	83
9	9.538	22.07	D:\MassHunter\Library\NIST14.L (+)-3-Carene	16050	000498-15-7	95
			Cyclopropane, 1,1-dimethyl-2-(3-methyl- 1,3-butadienyl)-	16283	068998-21-0	94
			(1R)-2,6,6-Trimethylbicyclo[3.1.1] hept-2-ene	16224	007785-70-8	94

10	9.788	2.01	D:\MassHunter\Library\NIST14.L				
			Benzene, 1-methyl-3-(1-methylethyl)-	15243	000535-77-3	95	
			p-Cymene	15142	000099-87-6	95	
			o-Cymene	15145	000527-84-4	94	
11	9.936	2.82	D:\MassHunter\Library\NIST14.L				
			D-Limonene	16046	005989-27-5	99	
			D-Limonene	16042	005989-27-5	94	
			Limonene	16032	000138-86-3	94	
12	10.642	0.10	D:\MassHunter\Library\NIST14.L				
			.gamma.-Terpinene	16078	000099-85-4	97	
			.gamma.-Terpinene	16077	000099-85-4	95	
			.gamma.-Terpinene	16075	000099-85-4	94	
13	11.040	0.04	D:\MassHunter\Library\NIST14.L				
			3-Methyl-4-cyclohexene-1,2-dicarboxylic anhydride	37233	005333-84-6	59	
			Bicyclo[3.2.0]hept-6-ene	2640	004927-03-1	53	
			Tricyclo[4.1.0.0(2,7)]heptane	2654	000287-13-8	49	
14	11.301	0.17	D:\MassHunter\Library\NIST14.L				
			2-Carene	16030	000554-61-0	89	
			Cyclohexene, 3-methyl-6-(1-methylidene)-	16231	000586-63-0	87	
			Cyclohexene, 1-methyl-4-(1-methylidene)-	16230	000586-62-9	64	
15	11.438	0.63	D:\MassHunter\Library\NIST14.L				
			Cyclohexene, 1-methyl-4-(1-methylidene)-	16238	000586-62-9	98	
			Cyclohexene, 1-methyl-4-(1-methylidene)-	16237	000586-62-9	96	
			Cyclohexene, 1-methyl-4-(1-methylidene)-	16236	000586-62-9	96	
16	11.562	0.63	D:\MassHunter\Library\NIST14.L				
			Benzene, 1-methyl-4-(1-methylethenyl)-	14415	001195-32-0	96	
			Benzene, (2-methyl-1-propenyl)-	14386	000768-49-0	83	
			Benzene, 1-methyl-3-(1-methylethenyl)-	14416	001124-20-5	83	
17	11.853	1.02	D:\MassHunter\Library\NIST14.L				
			3-Oxatricyclo[4.1.1.0(2,4)]octane, 2,7,7-trimethyl-	26091	001686-14-2	86	
			3-Oxatricyclo[4.1.1.0(2,4)]octane, 2,7,7-trimethyl-	26097	001686-14-2	59	
			2,4-Heptadiene, 2,4-dimethyl-	10893	074421-05-9	43	
18	12.150	0.36	D:\MassHunter\Library\NIST14.L				
			(1,3-Dimethyl-2-methylene-cyclopentyl)-methanol	19272	1000190-16-2	43	
			Methoxy(methyl)chlorosilane	5732	018151-27-4	38	
			7-Oxabicyclo[4.1.0]heptane, 1-methyl-4-(1-methylethenyl)-	26136	001195-92-2	35	
19	12.459	0.44	D:\MassHunter\Library\NIST14.L				
			Fenchol	27445	001632-73-1	98	
			Fenchol	27441	001632-73-1	98	
			Fenchol, exo-	27499	022627-95-8	95	
20	12.631	0.09	D:\MassHunter\Library\NIST14.L				
			.alpha.-Campholenal	25864	004501-58-0	80	
			.alpha.-Campholenal	25862	004501-58-0	78	
			.alpha.-Campholenal	25863	004501-58-0	76	
21	12.821	0.83	D:\MassHunter\Library\NIST14.L				
			Cyclohexene, 1,2-dimethyl-	6084	001674-10-8	42	
			1-Methyl-2-methylenecyclohexane	6116	002808-75-5	38	
			1-Methylcycloheptene	6039	055308-20-8	27	
22	13.135	1.30	D:\MassHunter\Library\NIST14.L				
			2-Methylenebicyclo[2.1.1]hexane	2657	005164-65-8	47	

			Bicyclo[3.2.0]hept-6-ene	2640	004927-03-1	47
			1,5-Cyclohexadiene-1-methanol, 4-(1-methylethyl)-	26077	019876-45-0	38
23	13.272	0.83	D:\MassHunter\Library\NIST14.L (+)-2-Bornanone	25851	000464-49-3	98
			Camphor	25783	000076-22-2	96
			Bicyclo[2.2.1]heptan-2-one, 1,7,7-trimethyl-, (1S)-	26094	000464-48-2	96
24	13.491	0.17	D:\MassHunter\Library\NIST14.L Bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-	27715	000465-31-6	98
			Bicyclo[2.2.1]heptan-2-ol, 2,3,3-trimethyl-	27723	000465-31-6	43
			3-Methoxybut-1-ene	1763	017351-24-5	38
25	13.622	0.29	D:\MassHunter\Library\NIST14.L Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.alpha.,5.alpha.)-	26148	000547-60-4	94
			Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-	26016	018358-53-7	93
			Bicyclo[3.1.1]heptan-3-one, 2,6,6-trimethyl-, (1.alpha.,2.alpha.,5.alpha.)-	26147	000547-60-4	87
26	14.002	0.64	D:\MassHunter\Library\NIST14.L endo-Borneol	27485	000507-70-0	97
			Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1S-endo)-	27823	000464-45-9	91
			Bicyclo[2.2.1]heptan-2-ol, 1,7,7-trimethyl-, (1S-endo)-	27818	000464-45-9	90
27	14.115	0.66	D:\MassHunter\Library\NIST14.L 2-Caren-4-ol	25822	006617-35-2	95
			trans-2-Caren-4-ol	25857	004017-82-7	90
			1(3H)-Isobenzofuranone, 3a,4,5,7a-tetrahydro-4-hydroxy-3a,7a-dimethyl-, (3a.alpha.,4.beta.,7a.alpha.)-(./-.)-	49294	054346-06-4	53
28	14.251	1.80	D:\MassHunter\Library\NIST14.L 3-Cyclohexen-1-ol, 4-methyl-1-(1-methylethyl)-, (R)-	27776	020126-76-5	94
			Terpinen-4-ol	27505	000562-74-3	93
			Terpinen-4-ol	27498	000562-74-3	91
29	14.578	2.89	D:\MassHunter\Library\NIST14.L Benzenemethanol, .alpha.,.alpha.,4-trimethyl-	24558	001197-01-9	50
			Benzenemethanol, .alpha.,.alpha.,4-trimethyl-	24557	001197-01-9	50
			Tricyclo[3.3.1.1(3,7)]decane, 2-bromo-	77546	007314-85-4	47
30	14.779	3.77	D:\MassHunter\Library\NIST14.L .alpha.-Terpineol	27530	000098-55-5	90
			(+)-4-Carene	16052	029050-33-7	83
			(1R)-2,6,6-Trimethylbicyclo[3.1.1]hept-2-ene	16224	007785-70-8	70
31	14.946	0.44	D:\MassHunter\Library\NIST14.L trans-Verbenol	25837	001820-09-3	30
			trans-p-mentha-1(7),8-dien-2-ol	25934	1000374-16-7	30
			Benzene, tert-butyl-	15169	000098-06-6	15
32	15.064	0.38	D:\MassHunter\Library\NIST14.L Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-	24595	001196-01-6	98
			Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-	24597	001196-01-6	97
			Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-	24571	000080-57-9	94

33	15.355	0.27	D:\MassHunter\Library\NIST14.L				
			2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	24534	000503-93-5	70	
			2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	24535	000503-93-5	60	
			Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-	24597	001196-01-6	49	
34	15.551	0.25	D:\MassHunter\Library\NIST14.L				
			Benzene, 2-methoxy-1-methyl-4-(1-methylethyl)-	34991	006379-73-3	80	
			Benzene, 1-methoxy-4-methyl-2-(1-methylethyl)-	34995	031574-44-4	60	
			Benzene, 2-methoxy-4-methyl-1-(1-methylethyl)-	34994	001076-56-8	60	
35	15.818	0.04	D:\MassHunter\Library\NIST14.L				
			Acetaldehyde, (3,3-dimethylcyclohexylidene)-, (Z)-	26084	026532-24-1	53	
			Benzene, 1,4-dimethoxy-2-methyl-O-Methoxy-.alpha.-methylbenzyl alcohol	26824	024599-58-4	49	
				26856	013513-82-1	47	
36	15.925	0.09	D:\MassHunter\Library\NIST14.L				
			2-Butanone, 4-phenyl-	23261	002550-26-7	98	
			2-Butanone, 3-phenyl-	23256	000769-59-5	95	
			2-Butanone, 4-phenyl-	23257	002550-26-7	94	
37	16.091	0.23	D:\MassHunter\Library\NIST14.L				
			4,7,7-Trimethylbicyclo[4.1.0]hept-3-en-2-one	24544	081800-50-2	91	
			2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	24534	000503-93-5	89	
			2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	24535	000503-93-5	70	
38	16.299	0.25	D:\MassHunter\Library\NIST14.L				
			trans-2,3-Epoxydecane	29195	054125-39-2	53	
			Cyclohexanol, 3,3,5-trimethyl-	20547	000116-02-9	46	
			2-Fluorobenzyl alcohol, methyl ether	19116	1000365-13-7	38	
39	16.602	0.26	D:\MassHunter\Library\NIST14.L				
			Benzene, 1-methyl-3-(1-methylethyl)-	15242	000535-77-3	45	
			Benzene, tert-butyl-	15169	000098-06-6	45	
			Benzene, tert-butyl-	15165	000098-06-6	43	
40	16.803	0.05	D:\MassHunter\Library\NIST14.L				
			Bicyclo[3.1.1]heptane, 2,6,6-trimethyl-, [1R-(1.alpha.,2.alpha.,5.alpha.)]-	17430	004863-59-6	25	
			3,4-Octadiene, 2,2,7,7-tetramethyl	36613	061092-76-0	22	
			Limonene oxide, cis-	25866	013837-75-7	22	
41	16.999	0.55	D:\MassHunter\Library\NIST14.L				
			Pentaleno[1,2-b]oxirene, octahydro-, (1a.alpha.,1b.alpha.,4a.beta.,5a.alpha.)-	10798	055449-71-3	46	
			2,4-Hexadiene, 2,5-dimethyl-	6104	000764-13-6	45	
			2,4-Hexadiene, 3,4-dimethyl-, (E,Z)-	6141	002417-88-1	43	
42	17.207	0.39	D:\MassHunter\Library\NIST14.L				
			Bis[bicyclo[3.2.0]hept-2-en-4-yl]ether	66802	1000153-89-5	53	
			Acetamide, N-phenyl-	15866	000103-84-4	52	
			Acetamide, N-phenyl-	15860	000103-84-4	52	
43	17.355	0.32	D:\MassHunter\Library\NIST14.L				
			Cyclohexanemethanol, 4-methylene-(+)-3-Carene	11698	001004-24-6	53	
				16050	000498-15-7	52	
			3-Carene	16036	013466-78-9	50	
44	17.522	0.37	D:\MassHunter\Library\NIST14.L				

			Spiro[4.5]dec-1-ene	16089	000697-27-8	47
			.gamma.-Terpinene	16077	000099-85-4	47
			Bicyclo[3.1.0]hexane, 4-methylene-1-(1-methylethyl)-	16275	003387-41-5	47
45	17.836	1.18	D:\MassHunter\Library\NIST14.L			
			4,7,7-Trimethylbicyclo[4.1.0]hept-3-en-2-one	24544	081800-50-2	97
			2,4-Cycloheptadien-1-one, 2,6,6-trimethyl-	24535	000503-93-5	83
			Bicyclo[3.1.1]hept-2-en-6-one, 2,7,7-trimethyl-	24569	000473-06-3	70
46	18.085	0.21	D:\MassHunter\Library\NIST14.L			
			Bicyclo[3.1.1]hept-2-ene-2-carboxaldehyde, 6,6-dimethyl-	24605	000564-94-3	50
			2,4-Nonadien-6-yn-1-ol, (E,E)-	16878	043212-86-8	50
			Dispiro[2.1.2.1]octane	5519	025399-32-0	47
47	18.400	0.81	D:\MassHunter\Library\NIST14.L			
			Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	16251	000508-32-7	87
			3-Carene	16036	013466-78-9	87
			Tricyclo[2.2.1.0(2,6)]heptane, 1,7,7-trimethyl-	16249	000508-32-7	87
48	18.513	0.59	D:\MassHunter\Library\NIST14.L			
			Acetamide, N-phenyl-	15860	000103-84-4	58
			Bicyclo[3.1.0]hex-2-ene, 2-methyl-5-(1-methylethyl)-	16271	002867-05-2	58
			Acetamide, N-phenyl-	15866	000103-84-4	58
49	18.792	2.01	D:\MassHunter\Library\NIST14.L			
			Bicyclo[2.2.1]hept-2-ene, 1,7,7-trimethyl-	16214	000464-17-5	93
			.alpha.-Terpinyl acetate	61555	000080-26-2	91
			.alpha.-Terpinyl acetate	61556	000080-26-2	91
50	19.237	1.09	D:\MassHunter\Library\NIST14.L			
			trans-.beta.-Ocimene	16094	003779-61-1	52
			Bicyclo[3.1.1]hept-2-ene, 3,6,6-trimethyl-	16207	004889-83-2	50
			.beta.-Phellandrene	16090	000555-10-2	50
51	19.356	0.27	D:\MassHunter\Library\NIST14.L			
			.alpha.-ylangene	68550	1000374-19-0	98
			Ylangene	68483	014912-44-8	96
			1,2,4-Metheno-1H-indene, octahydro-1,7a-dimethyl-5-(1-methylethyl)-, [1S-(1.alpha.,2.alpha.,3a.beta.,4.alpha.,5.alpha.,7a.beta.,8S*)]-	68943	022469-52-9	95
52	19.522	0.52	D:\MassHunter\Library\NIST14.L			
			.alpha.-Copaene	68522	1000360-33-0	99
			Copaene	68472	003856-25-5	99
			.alpha.-Cubebene	68557	017699-14-8	98
53	19.718	0.27	D:\MassHunter\Library\NIST14.L			
			3-Cyclohexene-1-methanol, 5-hydroxy-.alpha.,.alpha.,4-trimethyl-	39791	000498-71-5	80
			Sobrerol 8-acetate	76041	093133-02-9	58
			trans-Chrysanthenol	25860	038043-83-3	55
54	19.955	0.11	D:\MassHunter\Library\NIST14.L			
			1,4-Methano-1H-indene, octahydro-4-methyl-8-methylene-7-(1-methylethyl)-, [1S-(1.alpha.,3a.beta.,4.alpha.,7.alpha.,7a.beta.)]-	68934	003650-28-0	98
			1,4-Methano-1H-indene, octahydro-4-methyl-8-methylene-7-(1-methylethyl)-, [1S-(1.alpha.,3a.beta.,4.alpha.,7.alpha.,7a.beta.)]-	68933	003650-28-0	94
			Aromandendrene	68525	000489-39-4	90
55	20.157	0.96	D:\MassHunter\Library\NIST14.L			

			Methyleugenol	45823	000093-15-2	98
			Methyleugenol	45822	000093-15-2	98
			Methyleugenol	45824	000093-15-2	96
56	20.448	1.37	D:\MassHunter\Library\NIST14.L			
			Longifolene	68502	000475-20-7	99
			Longifolene	68498	000475-20-7	99
			Longifolene	68503	000475-20-7	99
57	20.614	0.11	D:\MassHunter\Library\NIST14.L			
			.beta.-ylangene	68536	1000374-19-1	99
			.beta.-copaene	68520	1000374-18-9	98
			Tricyclo[4.4.0.0(2,7)]decane, 1-methyl-3-methylene-8-(1-methylethyl)-, stereoisomer	68821	020479-06-5	93
58	20.804	0.14	D:\MassHunter\Library\NIST14.L			
			8-Hydroxycarvotanacetone	37846	007712-46-1	53
			Cyclohexanol, 2,3-dimethyl-1H-Imidazole, 1-ethyl-2-methyl	12890	001502-24-5	53
				5843	021202-52-8	52
59	20.911	0.30	D:\MassHunter\Library\NIST14.L			
			(1R,2S,6S,7S,8S)-8-Isopropyl-1-methyl-3-methylenetricyclo[4.4.0.0(2,7)]decane-rel-.beta.-copaene	68812	018252-44-3	97
			Bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene-	68520	1000374-18-9	96
				68697	150320-52-8	94
60	21.136	0.05	D:\MassHunter\Library\NIST14.L			
			Bicyclo[3.1.1]hept-3-en-2-one, 4,6,6-trimethyl-, (1S)-1-Hexen-3-yne, 2,5,5-trimethyl-cis-4,7,10,13,16,19-Docosahexaenoic acid, picolinyl ester	24597	001196-01-6	41
				10234	037439-53-5	25
				246869	1000333-23-6	22
61	21.439	0.28	D:\MassHunter\Library\NIST14.L			
			(E)-.beta.-Famesene	68594	018794-84-8	96
			(1S,5S,6R)-6-Methyl-2-methylene-6-(4-methylpent-3-en-1-yl)bicyclo[3.1.1]heptane	68803	015438-94-5	95
			cis-.beta.-Farnesene	68604	028973-97-9	95
62	21.718	0.11	D:\MassHunter\Library\NIST14.L			
			1,1,3-Trimethyl-1-silacyclo-3-pentene	11497	003528-14-1	25
			Spiro[4.5]decane-2,6-dione	36219	187975-88-8	12
			2(5H)-Furanone, 3,5,5-trimethyl-	11410	050598-50-0	11
63	21.825	0.06	D:\MassHunter\Library\NIST14.L			
			2-Propenoic acid, 3-phenyl-, ethyl ester	44349	000103-36-6	95
			2-Propenoic acid, 3-phenyl-, ethyl ester, (E)-	44370	004192-77-2	94
			Ethyl (Z)-cinnamate	44272	004610-69-9	94
64	22.038	0.86	D:\MassHunter\Library\NIST14.L			
			Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1.alpha.,4a.beta.,8a.alpha.)-	68910	039029-41-9	99
			.gamma.-Muurolene	68586	030021-74-0	99
			.gamma.-Muurolene	68584	030021-74-0	98
65	22.294	0.06	D:\MassHunter\Library\NIST14.L			
			2-Cyclohexen-1-one, 4-(2-oxopropyl)-	26834	056051-94-6	46
			E-8-Methyl-7-dodecen-1-ol acetate	102379	1000131-32-2	25
			Hydroxy-.alpha.-terpenyl acetate	76050	1000293-00-9	22
66	22.650	1.99	D:\MassHunter\Library\NIST14.L			
			.alpha.-Muurolene	68581	031983-22-9	99
			.alpha.-Muurolene	68582	010208-80-7	99
			.alpha.-Muurolene	68583	031983-22-9	98

67	22.816	0.11	D:\MassHunter\Library\NIST14.L	Butanoic acid, 3-methyl-, 1,7,7-trimethylbicyclo[2.2.1]hept-2-yl ester, exo-	100424	007779-73-9	25
				Isobornyl propionate	74285	002756-56-1	25
				Oxalic acid, bis(2-ethylhexyl) ester	173042	1000309-39-0	22
68	22.976	0.29	D:\MassHunter\Library\NIST14.L	Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1.alpha.,4a.beta.,8a.alpha.)-	68910	039029-41-9	99
				Naphthalene, 1,2,4a,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-.gamma.-Muurolene	68752	000483-75-0	97
					68586	030021-74-0	97
69	23.083	0.60	D:\MassHunter\Library\NIST14.L	1-Isopropyl-4,7-dimethyl-1,2,3,5,6,8a-hexahydronaphthalene	68698	016729-01-4	97
				Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-cis)-	68800	000483-76-1	95
				Naphthalene, 1,2,3,5,6,8a-hexahydro-4,7-dimethyl-1-(1-methylethyl)-, (1S-cis)-	68799	000483-76-1	94
70	23.451	0.14	D:\MassHunter\Library\NIST14.L	Cyclopentene, 1,2,3-trimethyl-4,4-Dimethyl-2-cyclopenten-1-one	6112	000473-91-6	25
				4,7-Methanobenzofuran, 2,2'-oxybis[octahydro-7,8,8-trimethyl-, [2.alpha.(2'R*,3'aS*,4'R*,7'R*,7'aS*),3a.alpha.,4.alpha.,7.alpha.,7a.alpha.]-	5967	022748-16-9	25
					223836	081955-10-4	25
71	23.629	0.07	D:\MassHunter\Library\NIST14.L	.alpha.-Calacorene	65296	021391-99-1	98
				1,1,5-Trimethyl-1,2-dihydronaphthalene	41664	1000357-25-8	80
				Benzene, 1-methyl-3-[(1-methylethylidene)cyclopropyl]-	41681	056701-42-9	64
72	23.961	0.31	D:\MassHunter\Library\NIST14.L	cis-Z-.alpha.-Bisabolene epoxide	83575	1000131-71-2	46
				Alloaromadendrene oxide-(1)	83565	1000156-12-8	38
				Ledene oxide-(II)	83515	1000159-36-7	30
73	24.288	0.13	D:\MassHunter\Library\NIST14.L	Acetic acid, 6,6-dimethyl-2-methylen-7-(3-oxobutylidene)oxepan-3-yl methyl ester	139883	1000186-15-5	43
				1H-1,4-Diazepine, hexahydro-1-(2-pyridinyl)-	45245	1000337-93-1	38
				Longifolenaldehyde	83526	019890-84-7	38
74	24.620	0.27	D:\MassHunter\Library\NIST14.L	Caryophyllene oxide	83533	001139-30-6	94
				Caryophyllene oxide	83536	001139-30-6	91
				Bicyclo[6.1.0]nonane, 9-(1-methylethylidene)-	35103	056666-90-1	46
75	24.763	0.09	D:\MassHunter\Library\NIST14.L	1,2-Ethandiol, 1,2-dimyrtenyl-1H-1,3a-Ethanopentalen-4-ol, hexahydro-, trans-	161830	1005182-93-3	22
				Hydroxy-.alpha.-terpenyl acetate	26048	117306-48-6	22
					76050	1000293-00-9	22
76	25.107	0.05	D:\MassHunter\Library\NIST14.L	1,4-Methanoazulen-9-ol, decahydro-1,5,5,8a-tetramethyl-, [1R-(1.alpha.,3a.beta.,4.alpha.,8a.beta.,9S*)]-	85851	000465-24-7	94
				Naphthalene, decahydro-4a-methyl-1-methylene-7-(1-methylethenyl)-, [68863	017066-67-0	64

			4aR-(4a.alpha.,7.alpha.,8a.beta.)] Aciphyllene	68501	087745-31-1	55
77	25.249	0.16	D:\MassHunter\Library\NIST14.L (1S,3aS,4S,5S,7aR,8R)-5-Isopropyl-1,7a-dimethyloctahydro-1H-1,4-methanoinden-8-ol .tau.-Muurolol .gamma.-Muurolene	85826 85705 68569	021966-93-8	99 70 60
78	25.386	0.14	D:\MassHunter\Library\NIST14.L 4,4-Dimethyl-3-(3-methylbut-3-enylidene)-2-methylenebicyclo[4.1.0]heptane Tricyclo[5.2.2.0(1,6)]undecan-3-ol, 2-methylene-6,8,8-trimethyl-Eudesma-4(15),7-dien-1.beta.-ol	66881 83624 83576	079718-83-5	83 58 45
79	25.499	0.06	D:\MassHunter\Library\NIST14.L cis-Z-.alpha.-Bisabolene epoxide Caryophyllene oxide Caryophyllene oxide	83575 83533 83536	1000131-71-2	50 43 43
80	26.080	0.22	D:\MassHunter\Library\NIST14.L 1-Naphthalenol, 1,2,3,4,4a,7,8,8a-octahydro-1,6-dimethyl-4-(1-methylethyl)-, [1S-(1.alpha.,4.alpha.,4a.beta.,8a.beta.)]-Copaene .gamma.-Muurolene	85879 68472 68569	133645-25-7	93 92 83
81	26.282	0.17	D:\MassHunter\Library\NIST14.L (1S,4S)-4-Isopropyl-1,6-dimethyl-1,2,3,4-tetrahydronaphthalen-1-ol.alpha.-Cadinol .tau.-Muurolol	81694 85709 85705	123932-45-6	83 60 42
82	26.502	0.08	D:\MassHunter\Library\NIST14.L Epizonarene Naphthalene, 1,2,3,4,4a,5,6,8a-octahydro-7-methyl-4-methylene-1-(1-methylethyl)-, (1.alpha.,4a.beta.,8a.alpha.)-Bicyclo[4.4.0]dec-1-ene, 2-isopropyl-5-methyl-9-methylene-	68504 68902 68697	041702-63-0 039029-41-9	93 76 64
83	26.769	0.07	D:\MassHunter\Library\NIST14.L Acetamide, N-phenyl-Silane, chlorodimethyloctyl-Allylchlorodimethylsilane	15860 70059 15384	000103-84-4	52 52 49
84	27.066	0.07	D:\MassHunter\Library\NIST14.L (3R,4aS,8aS)-8a-Methyl-5-methylene-3-(prop-1-en-2-yl)-1,2,3,4,4a,5,6,8a-octahydronaphthalene Naphthalene, 1,2,3,4-tetrahydro-1,6-dimethyl-4-(1-methylethyl)-, (1S-cis)-trans-Calamenene	66892 66886 66837	212394-95-1	38 35 35
85	28.686	0.05	D:\MassHunter\Library\NIST14.L Benzyl Benzoate Benzoic acid, 2-phenylhydrazide Benzyl Benzoate	76381 76194 76379	000120-51-4	95 91 91
86	28.823	0.05	D:\MassHunter\Library\NIST14.L 2-Methoxybenzoic acid, allyl ester 7-Methylene-bicyclo[3.3.1]nonan-3-one oxime Cyclohexanone, 2-(2-butynyl)-	57340 35722 24438	031994-79-3	44 41 38
87	30.781	0.12	D:\MassHunter\Library\NIST14.L Benzamide, 4-fluoro-N-[2-(4-pyridinyl)ethyl]- Benzamide, 2-fluoro-N-[2-(4-pyridinyl)ethyl]-	105878 105877	1000350-03-4	30 30

			nyl)ethyl]- Camphene	16029	000079-92-5	25
88	30.930	0.05	D:\MassHunter\Library\NIST14.L p-Menth-8-ene, 3-methylene- 1,3,6-Heptatriene, 2,5,5-trimethyl Acrylanilide	24640 16167 23134	1000151-25-7 029548-02-5 002210-24-4	35 20 18
89	31.351	0.14	D:\MassHunter\Library\NIST14.L Benzene, 1,1'-(1-methylethylidene) bis[4-methoxy- 4b,8-Dimethyl-2-isopropylphenanthr ene, 4b,5,6,7,8,8a,9,10-octahydro- Adamantane, 1-(4-methylphenylamino)-	117526 117602 103356	001568-83-8 1000197-14-1 019984-39-5	42 35 25
90	31.582	0.16	D:\MassHunter\Library\NIST14.L Benzamide, 4-fluoro-N-[2-(4-pyridi nyl)ethyl]- Benzamide, 3-fluoro-N-(2-ethylphen yl)- Benzamide, 2-fluoro-N-[2-(4-pyridi nyl)ethyl]-	105878 105075 105877	1000350-03-4 1000339-89-3 1000320-11-5	42 38 38
91	32.081	0.17	D:\MassHunter\Library\NIST14.L Phenanthrene, 7-ethenyl-1,2,3,4,4a ,4b,5,6,7,8,8a,9-dodecahydro-1,1,4 b,7-tetramethyl-, [4aS-(4a.alpha., 4b.beta.,7.alpha.,8a.alpha.)]- Naphthalene, decahydro-1,1,4a-trim ethyl-6-methylene-5-(3-methylene-4 -pentenyl)-, [4aS-(4a.alpha.,5.alp ha.,8a.beta.)]- Phenanthrene, 7-ethenyl-1,2,3,4,4a ,4b,5,6,7,8,8a,9-dodecahydro-1,1,4 b,7-tetramethyl-, [4aS-(4a.alpha., 4b.beta.,7.alpha.,8a.alpha.)]-	133065 133062 133064	001686-67-5 000511-02-4 001686-67-5	84 60 50
92	32.366	0.28	D:\MassHunter\Library\NIST14.L Phenanthrene, 7-ethenyl-1,2,3,4,4a ,4b,5,6,7,9,10,10a-dodecahydro-1,1 ,4a,7-tetramethyl-, [4aS-(4a.alpha ,4b.beta.,7.beta.,10a.beta.)]- Phenanthrene, 7-ethenyl-1,2,3,4,4a ,4b,5,6,7,9,10,10a-dodecahydro-1,1 ,4a,7-tetramethyl-, [4aS-(4a.alpha ,4b.beta.,7.beta.,10a.beta.)]- (E)-15,16-Dinorlabda-8(17),12-dien -14-yl	133069 133070 121298	001686-56-2 001686-56-2 167817-63-2	97 93 47
93	32.728	0.13	D:\MassHunter\Library\NIST14.L (3E,5E,7E)-6-Methyl-8-(2,6,6-trime thyl-1-cyclohexenyl)-3,5,7-octatri en-2-one Bicyclo[5.2.0]nonane, 2-methylene- 4,8,8-trimethyl-4-vinyl- Cyclohexane-1-methanol, 3,3-dimeth yl-2-(3-methyl-1,3-butadienyl)-	119461 68695 72661	017974-57-1 242794-76-9 1000196-01-5	53 45 38
94	33.357	0.13	D:\MassHunter\Library\NIST14.L Phenanthrene, 7-ethenyl-1,2,3,4,4a ,4b,5,6,7,8,10,10a-dodecahydro-1,1 ,4a,7-tetramethyl-, [4aS-(4a.alpha ,4b.beta.,7.beta.,10a.beta.)]- 1,3,6,10-Cyclotetradecatetraene, 3 ,7,11-trimethyl-14-(1-methylethyl) -, [S-(E,Z,E,E)]- 1,3,6,10-Cyclotetradecatetraene, 3 ,7,11-trimethyl-14-(1-methylethyl) -, [S-(E,Z,E,E)]-	133068 133055 133052	001686-66-4 001898-13-1 001898-13-1	53 30 25
95	33.595	0.18	D:\MassHunter\Library\NIST14.L (Z)-1-Methyl-4-(6-methylhept-5-en- 2-ylidene)cyclohex-1-ene trans-Verbenol	68694 25837	013062-00-5 001820-09-3	46 45

			p-Mentha 1(7),8-dien-2-ol	25900	035907-10-9	43
96	33.868	0.05	D:\MassHunter\Library\NIST14.L 2,6,9,11-Dodecatetraenal, 2,6,10-t rimethyl-, (E,E,E)- 2,5-Diacetyl-4-methylpyridine (3R,6R)-3-Hydroperoxy-3-methyl-6-(prop-1-en-2-yl)cyclohex-1-ene	81677 45153 38057	017909-77-2	35 30 27
97	33.980	0.06	D:\MassHunter\Library\NIST14.L Bicyclo[7.2.0]undec-4-ene, 4,11,11 -trimethyl-8-methylene-, [1R-(1R*,4 Z,9S*)]- Bicyclo[7.2.0]undec-4-ene, 4,11,11 -trimethyl-8-methylene- Bicyclo[7.2.0]undec-4-ene, 4,11,11 -trimethyl-8-methylene-, [1R-(1R*,4 Z,9S*)]-	68788 68687 68785	000118-65-0	49 49 45
98	34.283	0.09	D:\MassHunter\Library\NIST14.L cis-Chrysanthenol 1,3,6-Heptatriene, 2,5,6-trimethyl Bicyclo[5.2.0]nonane, 2-methylene- 4,8,8-trimethyl-4-vinyl-	25855 16166 68695	055722-60-6	64 42 41
99	34.390	0.04	D:\MassHunter\Library\NIST14.L 7-Isopropyl-1,1,4a-trimethyl-1,2,3 ,4,4a,9,10,10a-octahydrophenanthre ne Phenanthrene, 1,2,3,4,4a,9,10,10a- octahydro-1,1,4a-trimethyl-7-(1-me thylethyl)-, (4aS-trans)- 7-Isopropyl-1,1,4a-trimethyl-1,2,3 ,4,4a,9,10,10a-octahydrophenanthre ne	131008 131010 131007	109680-01-5	99 99 49
100	34.871	0.09	D:\MassHunter\Library\NIST14.L Selenofenchone (3S,3aR,6R,8aS)-7,7-Dimethyl-8-met hylenooctahydro-1H-3a,6-methanoazu lene-3-carbaldehyde Panaxene	79240 81729 68478	061849-83-0	44 42 42
101	35.334	0.06	D:\MassHunter\Library\NIST14.L trans-2-Caren-4-ol 2-Cyclohexen-1-ol, 2-methyl-5-(1-m ethylethenyl)-, cis- Bicyclo[2.2.1]hept-2-en-2-amine, N ,N-dimethyl-	25857 26121 17235	004017-82-7	46 46 45
102	37.358	0.05	D:\MassHunter\Library\NIST14.L Thunbergol Santalol, cis,.alpha.- (E)-5-((1R,3R,6S)-2,3-Dimethyltric yclo[2.2.1.0 ^{2,6}]heptan-3-yl)-2-met hylpent-2-enal	150221 83541 81719	025269-17-4	53 38 30
103	37.939	0.06	D:\MassHunter\Library\NIST14.L ((1R,4aR,4bS,7R,10aR)-1,4a,7-Trime thyl-7-vinyl-1,2,3,4,4a,4b,5,6,7,9 ,10,10a-dodecahydrophenanthren-1-y l)methanol p-Menth-8-ene, 3-methylene- Thunbergol	148282 24640 150221	024563-84-6	90 51 50
104	39.275	0.04	D:\MassHunter\Library\NIST14.L Methyl dehydroabietate Methyl dehydroabietate Methyl dehydroabietate	173501 173505 173503	001235-74-1	96 96 94

File :D:\Data\Flüssig\2020\5977_201117_001.D
Operator : admin
Acquired : 17 Nov 2020 12:23 using AcqMethod Extrakt Kiefer.M
Instrument : MSD
Sample Name: Märkisches Kiefernöl Hr. Topf
Misc Info :
Vial Number: 1

