

# Supplementary Materials.

**Table S1.** Most abundant volatile compounds contained in the samples analysed, expressed in area% as average of three measurements by GC-FID analysis.

	Compounds	LRI <sub>ex</sub>	LRI <sub>lit</sub>	Simil. %	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
1	Acetic aldehyde	457	-	90	0.14 ± 0.02	0.03 ± 0.00	0.05 ± 0.01	0.06 ± 0.01	0.03 ± 0.00	0.02 ± 0.00
2	Ethanol	475	-	97	0.85 ± 0.09	0.36 ± 0.04	0.78 ± 0.08	0.14 ± 0.02	0.18 ± 0.02	0.20 ± 0.02
3	Acetone	491	-	97	0.32 ± 0.03	0.11 ± 0.01	0.21 ± 0.02	0.78 ± 0.08	0.10 ± 0.01	0.03 ± 0.00
4	Formic acid	529	480	90	0.67 ± 0.07	3.69 ± 0.40	3.18 ± 0.34	3.79 ± 0.41	0.23 ± 0.02	0.01 ± 0.00
5	Methyl acetate	566	633	90	0.06 ± 0.01	0.25 ± 0.03	0.98 ± 0.10	-	0.38 ± 0.04	0.01 ± 0.00
6	2,3-Butanedione	581	561	90	0.11 ± 0.01	0.05 ± 0.01	0.10 ± 0.01	-	0.02 ± 0.00	0.01 ± 0.00
7	3-Methyl-2-pentanone	578	745	90	0.06 ± 0.01	0.16 ± 0.02	0.04 ± 0.00	-	0.03 ± 0.00	0.04 ± 0.00
8	2-Methylfuran	583	588	92	0.06 ± 0.01	-	-	-	1.21 ± 0.13	0.12 ± 0.01
9	Ethanoic acid	638	661	98	0.60 ± 0.06	10.47 ± 1.12	5.09 ± 0.55	11.16 ± 1.20	16.13 ± 1.73	8.19 ± 0.88
10	Isobutyl alcohol	735	621	94	0.01 ± 0.00	0.04 ± 0.00	-	0.03 ± 0.00	0.04 ± 0.00	0.12 ± 0.01
11	(E)-2-Butenal	641	650	91	tr	0.03 ± 0.00	0.06 ± 0.01	0.10 ± 0.01	-	-
12	Butyl alcohol	658	653	90	tr	0.11 ± 0.01	0.13 ± 0.01	0.03 ± 0.00	-	-
13	3-Hydroxy-pentene	681	691	97	0.02 ± 0.00	0.01 ± 0.00	0.06 ± 0.01	0.10 ± 0.01	-	-
14	Propyl methyl ketone	685	682	90	tr	0.01 ± 0.00	0.58 ± 0.06	0.16 ± 0.02	-	-
15	3-Pentanone	699	697	94	0.06 ± 0.01	-	-	0.10 ± 0.01	-	-
16	<i>n</i> -Pentanal	701	696	90	0.10 ± 0.01	0.08 ± 0.01	0.04 ± 0.00	0.07 ± 0.01	-	0.16 ± 0.02
17	Pyruvic acid	704	696	96	0.03 ± 0.00	0.05 ± 0.01	0.04 ± 0.00	0.06 ± 0.01	0.05 ± 0.01	tr
18	Ethyl propanoate	711	708	90	0.01 ± 0.00	-	-	0.02 ± 0.00	-	tr
19	3-Hydroxy-2-butanone	716	716	91	0.35 ± 0.04	-	-	0.03 ± 0.00	-	0.03 ± 0.00
20	Isoprenol	730	724	93	0.09 ± 0.01	0.01 ± 0.00	0.01 ± 0.00	0.02 ± 0.00	-	0.01 ± 0.00
21	Isopentyl alcohol	734	729	97	0.06 ± 0.01	-	0.07 ± 0.01	0.05 ± 0.01	0.07 ± 0.01	0.07 ± 0.01
22	<i>sec</i> -Butyl-carbinol	737	733	92	0.03 ± 0.00	-	0.08 ± 0.01	-	0.10 ± 0.01	-
23	Isopropyl ethyl ketone	746	742	90	0.02 ± 0.00	0.01 ± 0.00	0.06 ± 0.01	0.03 ± 0.00	-	-
24	3-Hexanone	746	782	90	0.03 ± 0.00	-	0.11 ± 0.01	-	-	-
25	(Z)-2-Pentenal	754	-	90	tr	-	0.03 ± 0.00	-	-	-
26	(E)-2-Pentenal	754	751	90	0.01 ± 0.00	0.02 ± 0.00	0.23 ± 0.02	-	-	-
27	Isobutyric acid	755	774	90	-	-	-	0.03 ± 0.00	0.05 ± 0.01	-
28	Toluene	764	763	94	1.04 ± 0.11	0.04 ± 0.00	1.99 ± 0.21	0.09 ± 0.01	-	-
29	Pentyl alcohol	767	763	95	0.03 ± 0.00	0.07 ± 0.01	0.16 ± 0.02	-	0.03 ± 0.00	0.16 ± 0.02
30	(E)-2-Penten-1-ol	769	761	90	0.02 ± 0.00	-	0.05 ± 0.01	-	0.02 ± 0.00	-
31	Prenol	776	772	90	0.01 ± 0.00	-	0.19 ± 0.02	-	0.09 ± 0.01	-
32	Butanoic acid	784	818	90	0.02 ± 0.00	-	0.11 ± 0.01	0.08 ± 0.01	0.06 ± 0.01	0.01 ± 0.00
33	$\alpha$ -Octene	791	788	90	0.18 ± 0.02	0.12 ± 0.01	0.10 ± 0.01	0.04 ± 0.00	0.02 ± 0.00	0.03 ± 0.00
34	3-Methyl-crotonaldehyde	789	780	90	0.01 ± 0.00	0.02 ± 0.00	-	-	-	0.01 ± 0.00
35	<i>n</i> -Octane	800	800	96	0.03 ± 0.00	0.01 ± 0.00	0.01 ± 0.00	-	-	-
36	<i>n</i> -Hexanal	802	801	96	0.07 ± 0.01	0.53 ± 0.06	2.88 ± 0.31	2.72 ± 0.29	0.10 ± 0.01	0.93 ± 0.10
37	1,3-Octadiene	820	827	90	0.02 ± 0.00	0.12 ± 0.01	-	0.10 ± 0.01	0.01 ± 0.00	0.04 ± 0.00
38	Furfural	831	845	98	0.02 ± 0.00	0.43 ± 0.05	-	-	1.09 ± 0.12	0.16 ± 0.02
39	Isovaleric acid	835	842	90	0.14 ± 0.01	0.28 ± 0.03	0.88 ± 0.09	-	-	0.02 ± 0.00
40	(E)-Ethyl crotonate	843	839	93	0.01 ± 0.00	0.30 ± 0.03	0.02 ± 0.00	0.07 ± 0.01	0.09 ± 0.01	-
41	Ethyl 2-methylbutyrate	847	842	90	0.02 ± 0.00	0.08 ± 0.01	0.04 ± 0.00	0.03 ± 0.00	0.08 ± 0.01	0.01 ± 0.00
42	(E)-2-Hexenal	844	850	90	-	0.39 ± 0.04	0.01 ± 0.00	0.14 ± 0.02	0.07 ± 0.01	-
43	(E)-3-Hexenol	851	847	90	0.01 ± 0.00	0.14 ± 0.02	0.07 ± 0.01	-	-	0.15 ± 0.02
44	(Z)-3-Hexenol	854	853	96	0.52 ± 0.06	0.64 ± 0.07	0.04 ± 0.00	-	0.04 ± 0.00	-
45	(E)-2-Hexenol	866	864	90	0.01 ± 0.00	0.01 ± 0.00	-	-	-	-
46	<i>n</i> -Hexanol	869	867	96	0.12 ± 0.01	0.10 ± 0.01	0.17 ± 0.02	0.10 ± 0.01	0.26 ± 0.03	0.13 ± 0.01
47	Isoamyl acetate	875	871	97	0.03 ± 0.00	0.04 ± 0.00	0.03 ± 0.00	0.04 ± 0.00	0.30 ± 0.03	-
48	2-Methylbutyl acetate	881	873	90	0.02 ± 0.00	0.04 ± 0.00	0.07 ± 0.01	0.01 ± 0.00	0.22 ± 0.02	0.15 ± 0.02
49	<i>n</i> -Pentanoic acid	882	911	90	0.02 ± 0.00	-	-	0.02 ± 0.00	0.01 ± 0.00	0.15 ± 0.02
50	3-Methyl-3-buten-1-yl-acetate	884	878	90	0.02 ± 0.00	0.12 ± 0.01	0.03 ± 0.00	0.10 ± 0.01	-	0.08 ± 0.01
51	1-Buten-1-one	885	-	90	0.02 ± 0.00	-	0.03 ± 0.00	0.17 ± 0.02	-	-
52	Styrene	886	891	90	0.01 ± 0.00	-	0.16 ± 0.02	-	0.33 ± 0.04	-
53	Pentyl methyl ketone	890	887	90	0.01 ± 0.00	0.14 ± 0.02	-	-	-	-
54	Ethylbenzene	859	857	90	-	0.05 ± 0.01	0.02 ± 0.00	-	-	-
55	(E)-4-Heptenal	894	901	90	0.02 ± 0.00	0.04 ± 0.00	0.04 ± 0.00	-	-	-
56	<i>n</i> -Nonene	895	890	90	tr	0.08 ± 0.01	-	-	-	-
57	Heptanal	903	906	94	0.04 ± 0.00	0.40 ± 0.04	0.52 ± 0.06	0.67 ± 0.07	0.14 ± 0.02	0.59 ± 0.06
58	2-Acetyl furan	907	913	90	0.01 ± 0.00	0.12 ± 0.01	-	0.11 ± 0.01	-	-
59	Tricyclene	908	923	90	0.01 ± 0.00	0.06 ± 0.01	0.03 ± 0.00	-	-	-

60	$\gamma$ -Butyrolactone	911	910	90	0.03 $\pm$ 0.00	-	0.10 $\pm$ 0.01	-	-	0.15 $\pm$ 0.02
61	(E)-3-Nonene	913	886	90	0.01 $\pm$ 0.00	0.06 $\pm$ 0.01	-	-	0.03 $\pm$ 0.00	-
62	Pentyl acetate	915	915	93	0.02 $\pm$ 0.00	-	0.01 $\pm$ 0.00	-	0.23 $\pm$ 0.02	-
63	3-Methyl-apopinene	923	927	94	0.04 $\pm$ 0.00	-	0.06 $\pm$ 0.01	0.03 $\pm$ 0.00	0.01 $\pm$ 0.00	0.01 $\pm$ 0.00
64	$\alpha$ -Thujene	927	927	91	0.01 $\pm$ 0.00	-	0.08 $\pm$ 0.01	0.02 $\pm$ 0.00	-	0.04 $\pm$ 0.00
65	$\alpha$ -Pinene	935	933	95	6.52 $\pm$ 0.70	3.64 $\pm$ 0.39	10.82 $\pm$ 1.16	6.94 $\pm$ 0.74	0.24 $\pm$ 0.03	1.61 $\pm$ 0.17
66	Dihydromyrcene	943	948	90	0.22 $\pm$ 0.02	0.01 $\pm$ 0.00	0.01 $\pm$ 0.00	0.02 $\pm$ 0.00	0.13 $\pm$ 0.01	0.08 $\pm$ 0.01
67	$\alpha$ -Fenchene	947	950	91	0.02 $\pm$ 0.00	0.02 $\pm$ 0.00	0.21 $\pm$ 0.02	0.14 $\pm$ 0.02	-	0.08 $\pm$ 0.01
68	$\gamma$ -Pentalactone	949	954	92	0.04 $\pm$ 0.00	0.10 $\pm$ 0.01	-	-	0.27 $\pm$ 0.03	0.06 $\pm$ 0.01
69	Camphene	951	953	96	0.33 $\pm$ 0.04	0.36 $\pm$ 0.04	0.48 $\pm$ 0.05	0.43 $\pm$ 0.05	-	0.10 $\pm$ 0.01
70	Thuja-2,4(10)-diene	954	953	93	0.07 $\pm$ 0.01	0.06 $\pm$ 0.01	0.06 $\pm$ 0.01	0.05 $\pm$ 0.01	-	0.02 $\pm$ 0.00
71	(E)-2-Heptenal	958	956	94	0.14 $\pm$ 0.02	1.05 $\pm$ 0.11	0.92 $\pm$ 0.10	1.81 $\pm$ 0.19	0.25 $\pm$ 0.03	1.20 $\pm$ 0.13
72	5-Methyl furfural	961	960	92	0.05 $\pm$ 0.01	0.03 $\pm$ 0.00	0.35 $\pm$ 0.04	0.06 $\pm$ 0.01	-	-
73	Benzaldehyde	964	960	90	0.08 $\pm$ 0.01	0.06 $\pm$ 0.01	0.03 $\pm$ 0.00	0.12 $\pm$ 0.01	0.87 $\pm$ 0.09	0.34 $\pm$ 0.04
74	<i>n</i> -Heptanol	972	970	90	0.05 $\pm$ 0.01	0.22 $\pm$ 0.02	0.06 $\pm$ 0.01	0.05 $\pm$ 0.01	0.09 $\pm$ 0.01	0.08 $\pm$ 0.01
75	Sabinene	973	972	91	-	0.09 $\pm$ 0.01	0.05 $\pm$ 0.01	-	0.04 $\pm$ 0.00	0.07 $\pm$ 0.01
76	1-Octen-3-one	974	973	92	-	0.14 $\pm$ 0.02	-	0.34 $\pm$ 0.04	0.08 $\pm$ 0.01	0.11 $\pm$ 0.01
77	$\beta$ -Pinene	978	978	97	1.54 $\pm$ 0.17	-	1.16 $\pm$ 0.12	0.05 $\pm$ 0.01	1.01 $\pm$ 0.11	0.04 $\pm$ 0.00
78	Vinyl amyl carbinol	982	978	90	0.24 $\pm$ 0.03	0.99 $\pm$ 0.11	1.09 $\pm$ 0.12	-	-	1.58 $\pm$ 0.17
79	6-Methyl-hept-5-en-2-one	985	986	90	0.30 $\pm$ 0.03	1.28 $\pm$ 0.14	1.79 $\pm$ 0.19	1.30 $\pm$ 0.14	0.75 $\pm$ 0.08	1.07 $\pm$ 0.11
80	Myrcene	989	991	95	3.69 $\pm$ 0.40	2.28 $\pm$ 0.24	1.51 $\pm$ 0.16	2.14 $\pm$ 0.23	0.90 $\pm$ 0.10	1.72 $\pm$ 0.18
81	2-Pentyl-furan	992	991	90	0.13 $\pm$ 0.01	-	-	-	0.24 $\pm$ 0.03	-
82	6-Methyl-hept-5-en-2-ol	994	995	90	0.02 $\pm$ 0.00	-	0.14 $\pm$ 0.02	0.60 $\pm$ 0.06	0.24 $\pm$ 0.03	-
83	<i>n</i> -Hexanoic acid	995	997	90	0.03 $\pm$ 0.00	0.29 $\pm$ 0.03	0.06 $\pm$ 0.01	0.18 $\pm$ 0.02	0.09 $\pm$ 0.01	0.16 $\pm$ 0.02
84	Mesitylene	996	994	90	-	-	-	0.10 $\pm$ 0.01	0.10 $\pm$ 0.01	0.34 $\pm$ 0.04
85	<i>n</i> -Decane	1000	1000	93	0.07 $\pm$ 0.01	0.66 $\pm$ 0.07	0.20 $\pm$ 0.02	-	0.19 $\pm$ 0.02	0.27 $\pm$ 0.03
86	3-Octanol	998	999	90	-	-	-	-	0.16 $\pm$ 0.02	0.91 $\pm$ 0.10
87	<i>n</i> -Octanal	1004	983	93	0.09 $\pm$ 0.01	3.37 $\pm$ 0.36	2.33 $\pm$ 0.25	2.08 $\pm$ 0.22	0.37 $\pm$ 0.04	1.86 $\pm$ 0.20
88	(Z)-3-Hexenyl acetate	1005	1008	97	0.66 $\pm$ 0.07	-	-	-	-	0.12 $\pm$ 0.01
89	$\alpha$ -Phellandrene	1007	1007	91	0.69 $\pm$ 0.07	0.44 $\pm$ 0.05	0.86 $\pm$ 0.09	0.43 $\pm$ 0.05	0.15 $\pm$ 0.02	-
90	$\delta$ -3-Carene	1010	1009	90	0.08 $\pm$ 0.01	0.23 $\pm$ 0.02	-	-	0.73 $\pm$ 0.08	0.69 $\pm$ 0.07
91	Isopentyl isobutyrate	1012	1014	92	0.16 $\pm$ 0.02	0.36 $\pm$ 0.04	0.05 $\pm$ 0.01	-	0.06 $\pm$ 0.01	-
92	(E)-2-Hexenyl acetate	1015	1017	93	0.05 $\pm$ 0.01	0.05 $\pm$ 0.01	0.77 $\pm$ 0.08	0.08 $\pm$ 0.01	0.45 $\pm$ 0.05	0.13 $\pm$ 0.01
93	$\alpha$ -Terpinene	1018	1018	94	0.45 $\pm$ 0.05	0.22 $\pm$ 0.02	0.11 $\pm$ 0.01	0.23 $\pm$ 0.02	0.21 $\pm$ 0.02	0.44 $\pm$ 0.05
94	Pelargol	1021	1200	90	0.18 $\pm$ 0.02	0.05 $\pm$ 0.01	0.17 $\pm$ 0.02	0.06 $\pm$ 0.01	0.12 $\pm$ 0.01	0.13 $\pm$ 0.01
95	<i>p</i> -Cymene	1025	1025	90	0.54 $\pm$ 0.06	0.74 $\pm$ 0.08	1.27 $\pm$ 0.14	0.87 $\pm$ 0.09	2.16 $\pm$ 0.23	2.97 $\pm$ 0.32
96	Limonene	1021	1030	97	4.71 $\pm$ 0.50	3.90 $\pm$ 0.42	6.24 $\pm$ 0.67	3.96 $\pm$ 0.42	3.28 $\pm$ 0.35	4.58 $\pm$ 0.49
97	$\beta$ -Phellandrene	1022	1031	96	1.14 $\pm$ 0.12	0.14 $\pm$ 0.01	0.19 $\pm$ 0.02	0.74 $\pm$ 0.08	0.42 $\pm$ 0.05	0.54 $\pm$ 0.06
98	(Z)- $\beta$ -Ocimene	1025	1035	90	2.72 $\pm$ 0.29	0.71 $\pm$ 0.08	0.08 $\pm$ 0.01	0.91 $\pm$ 0.10	0.41 $\pm$ 0.04	0.71 $\pm$ 0.08
99	Oct-3-en-2-one	1033	1036	90	-	0.09 $\pm$ 0.01	0.12 $\pm$ 0.01	0.15 $\pm$ 0.02	0.08 $\pm$ 0.01	0.53 $\pm$ 0.06
100	2(3H)-Furanone, dihydro-3-hydroxy-4,4-dimethyl-,	1040	1032	92	0.35 $\pm$ 0.04	0.05 $\pm$ 0.01	0.05 $\pm$ 0.01	0.26 $\pm$ 0.03	0.35 $\pm$ 0.04	0.13 $\pm$ 0.01
101	(Z)-2-Octenal	1045	1047	90	0.08 $\pm$ 0.01	0.10 $\pm$ 0.01	0.02 $\pm$ 0.00	0.03 $\pm$ 0.00	-	0.22 $\pm$ 0.02
102	Phenylacetaldehyde	1046	1045	90	-	0.07 $\pm$ 0.01	-	-	0.18 $\pm$ 0.02	-
103	(E)- $\beta$ -Ocimene	1047	1046	96	5.48 $\pm$ 0.59	1.13 $\pm$ 0.12	0.10 $\pm$ 0.01	0.79 $\pm$ 0.08	0.19 $\pm$ 0.02	1.22 $\pm$ 0.13
104	$\gamma$ -Hexalactone	1053	1060	90	0.02 $\pm$ 0.00	0.14 $\pm$ 0.02	0.01 $\pm$ 0.00	0.05 $\pm$ 0.01	0.16 $\pm$ 0.02	0.22 $\pm$ 0.02
105	4-Methyl decane	1054	1060	90	0.03 $\pm$ 0.00	0.84 $\pm$ 0.09	0.13 $\pm$ 0.01	0.17 $\pm$ 0.02	0.45 $\pm$ 0.05	0.14 $\pm$ 0.02
106	(E)-2-Octenal	1056	1047	90	0.05 $\pm$ 0.01	1.68 $\pm$ 0.18	0.02 $\pm$ 0.00	1.11 $\pm$ 0.12	0.03 $\pm$ 0.00	0.28 $\pm$ 0.03
107	$\gamma$ -Terpinene	1057	1058	94	0.67 $\pm$ 0.07	0.49 $\pm$ 0.05	0.95 $\pm$ 0.10	0.76 $\pm$ 0.08	0.52 $\pm$ 0.06	2.99 $\pm$ 0.32
108	(E)-Decahydro-naphthalene	1061	1062	93	0.08 $\pm$ 0.01	0.06 $\pm$ 0.01	0.13 $\pm$ 0.01	0.02 $\pm$ 0.00	-	1.20 $\pm$ 0.13
109	2-Methyl decane	1062	1064	90	0.17 $\pm$ 0.02	0.32 $\pm$ 0.03	0.01 $\pm$ 0.00	0.14 $\pm$ 0.02	0.73 $\pm$ 0.08	0.13 $\pm$ 0.01
110	(Z)-2-Octenol	1068	1067	94	-	0.55 $\pm$ 0.06	0.16 $\pm$ 0.02	0.47 $\pm$ 0.05	0.19 $\pm$ 0.02	0.51 $\pm$ 0.05
111	Octanol	1072	1076	90	0.21 $\pm$ 0.02	1.82 $\pm$ 0.20	0.62 $\pm$ 0.07	0.93 $\pm$ 0.10	-	1.39 $\pm$ 0.15
112	(Z)-Linalool oxide	1075	1169	90	0.05 $\pm$ 0.01	1.10 $\pm$ 0.12	0.31 $\pm$ 0.03	0.52 $\pm$ 0.06	1.13 $\pm$ 0.12	0.12 $\pm$ 0.01
113	Heptanoic acid	1076	1116	92	0.06 $\pm$ 0.01	0.05 $\pm$ 0.00	0.03 $\pm$ 0.00	0.07 $\pm$ 0.01	-	0.13 $\pm$ 0.01
114	Terpinolene	1080	1086	94	1.26 $\pm$ 0.14	1.30 $\pm$ 0.14	0.28 $\pm$ 0.03	-	0.08 $\pm$ 0.01	0.24 $\pm$ 0.03
115	(E)-Linalool oxide	1088	1086	90	-	-	0.04 $\pm$ 0.00	0.57 $\pm$ 0.06	0.60 $\pm$ 0.06	0.23 $\pm$ 0.02
116	<i>p</i> -Cymenene	1077	1093	90	0.80 $\pm$ 0.09	0.85 $\pm$ 0.09	0.19 $\pm$ 0.02	0.41 $\pm$ 0.04	0.50 $\pm$ 0.05	0.60 $\pm$ 0.06
117	(E)-4-Nonenal	1095	1098	90	0.02 $\pm$ 0.00	0.24 $\pm$ 0.03	0.08 $\pm$ 0.01	0.16 $\pm$ 0.02	0.05 $\pm$ 0.01	0.02 $\pm$ 0.00
118	(3E,5E)-3,5-Octadien-2-one	1096	1073	91	0.22 $\pm$ 0.02	-	0.03 $\pm$ 0.00	0.10 $\pm$ 0.01	0.20 $\pm$ 0.02	0.16 $\pm$ 0.02
119	<i>n</i> -Undecane	1100	1100	90	-	1.18 $\pm$ 0.13	0.25 $\pm$ 0.03	0.18 $\pm$ 0.02	0.98 $\pm$ 0.11	0.02 $\pm$ 0.00
120	(Z)-3-Hexenyl propanoate	1101	1101	92	0.07 $\pm$ 0.01	-	0.02 $\pm$ 0.00	-	0.07 $\pm$ 0.01	-
121	2-Methylbutyl-2-methylbutyrate	1102	1104	90	0.76 $\pm$ 0.08	-	0.01 $\pm$ 0.00	-	-	0.18 $\pm$ 0.02
122	Linalool	1103	1101	91	-	0.12 $\pm$ 0.01	0.16 $\pm$ 0.02	-	0.30 $\pm$ 0.03	0.67 $\pm$ 0.07

123	3-Methylbutyl-2-methylbutyrate	1104	1104	92	0.04 ± 0.00	-	0.10 ± 0.01	-	0.12 ± 0.01	-
124	<i>n</i> -Nonanal	1105	1107	90	1.05 ± 0.11	5.69 ± 0.61	5.15 ± 0.55	7.84 ± 0.84	1.31 ± 0.14	5.14 ± 0.55
125	2-Methylbutyl isovalerate	1108	1109	92	0.12 ± 0.01	0.13 ± 0.01	-	0.05 ± 0.01	0.06 ± 0.01	0.05 ± 0.01
126	Heptyl acetate	1112	1114	90	0.10 ± 0.01	-	0.04 ± 0.00	0.03 ± 0.00	0.10 ± 0.01	0.11 ± 0.01
127	Phenethyl alcohol	1115	1113	93	0.43 ± 0.05	0.51 ± 0.05	0.43 ± 0.05	0.49 ± 0.05	0.27 ± 0.03	0.10 ± 0.01
128	<i>endo</i> -Fenchol	1122	1119	90	0.12 ± 0.01	0.05 ± 0.01	-	0.23 ± 0.02	0.07 ± 0.01	0.06 ± 0.01
129	<i>dihydro</i> -Citronellal	1128	1125	90	-	0.01 ± 0.00	0.12 ± 0.01	0.04 ± 0.00	0.06 ± 0.01	0.03 ± 0.00
130	Fenchyl alcohol	1123	1123	90	0.14 ± 0.02	0.18 ± 0.02	0.04 ± 0.00	0.03 ± 0.00	0.05 ± 0.01	0.03 ± 0.00
131	<i>allo</i> -(4E,6Z)-Ocimene	1129	1128	90	0.33 ± 0.04	0.23 ± 0.02	0.01 ± 0.00	0.37 ± 0.04	0.25 ± 0.03	0.27 ± 0.03
132	2-Vinyl anisole	1132	1135	91	-	0.06 ± 0.01	-	0.07 ± 0.01	-	-
133	Cosmene	1133	1131	90	0.69 ± 0.07	0.03 ± 0.00	0.01 ± 0.00	-	-	0.04 ± 0.00
134	3-Nonen-2-one	1140	1137	90	0.70 ± 0.08	0.14 ± 0.02	0.02 ± 0.00	0.08 ± 0.01	0.09 ± 0.01	0.02 ± 0.00
135	<i>neo-allo</i> -Ocimene	1141	1145	90	1.33 ± 0.14	0.26 ± 0.03	0.01 ± 0.00	0.10 ± 0.01	0.07 ± 0.01	0.04 ± 0.00
136	(E)-Pinocarveol	1142	1141	94	0.23 ± 0.02	0.01 ± 0.00	0.19 ± 0.02	0.23 ± 0.02	0.29 ± 0.03	0.09 ± 0.01
137	(Z)-2-Nonenal	1148	1148	90	0.35 ± 0.04	0.07 ± 0.01	0.02 ± 0.00	0.08 ± 0.01	0.08 ± 0.01	0.06 ± 0.01
138	(Z)- $\beta$ -Terpineol	1149	1149	91	0.21 ± 0.02	0.12 ± 0.01	0.01 ± 0.00	0.01 ± 0.00	0.05 ± 0.01	0.12 ± 0.01
139	6-Methyl undecane	1151	1152	90	0.20 ± 0.02	-	0.01 ± 0.00	0.11 ± 0.01	0.14 ± 0.02	0.07 ± 0.01
140	Neomenthol	1155	1170	92	0.38 ± 0.04	0.17 ± 0.02	-	0.03 ± 0.00	0.10 ± 0.01	0.36 ± 0.04
141	Camphene hydrate	1156	1156	90	0.70 ± 0.08	0.03 ± 0.00	0.03 ± 0.00	0.02 ± 0.00	tr	-
142	(E)-2-Nonenal	1162	1163	96	0.11 ± 0.01	0.81 ± 0.09	0.37 ± 0.04	1.12 ± 0.12	0.09 ± 0.01	0.68 ± 0.07
143	Pinocarvone	1166	1164	90	0.56 ± 0.06	0.12 ± 0.01	0.08 ± 0.01	0.13 ± 0.01	0.11 ± 0.01	0.25 ± 0.03
144	3-Methyl undecane	1167	1170	91	0.75 ± 0.08	-	0.02 ± 0.00	0.01 ± 0.00	-	0.08 ± 0.01
145	Isoborneol	1168	1165	94	0.05 ± 0.01	0.14 ± 0.02	0.11 ± 0.01	0.19 ± 0.02	0.34 ± 0.04	0.13 ± 0.01
146	Nonanol	1174	1176	90	0.08 ± 0.01	0.40 ± 0.04	0.30 ± 0.03	0.29 ± 0.03	0.57 ± 0.06	0.04 ± 0.00
147	Borneol	1176	1173	91	0.47 ± 0.05	0.88 ± 0.09	0.19 ± 0.02	0.50 ± 0.05	0.58 ± 0.06	0.12 ± 0.01
148	(Z)-Pinocamphone	1180	1176	92	-	-	0.03 ± 0.00	0.09 ± 0.01	0.11 ± 0.01	0.06 ± 0.01
149	Octanoic acid	1181	1192	91	0.43 ± 0.05	0.11 ± 0.01	-	-	-	0.02 ± 0.00
150	4-Terpinenol	1183	1184	90	-	0.17 ± 0.02	0.04 ± 0.00	0.14 ± 0.02	0.69 ± 0.07	0.52 ± 0.06
151	(Z)-3-Hexenyl-butyrate	1185	1187	91	1.94 ± 0.21	0.05 ± 0.01	-	0.06 ± 0.01	0.17 ± 0.02	0.03 ± 0.00
152	1-Dodecene	1190	1191	90	0.74 ± 0.08	-	-	-	0.18 ± 0.02	0.01 ± 0.00
153	Octyl methyl ketone	1194	1196	91	0.86 ± 0.09	0.26 ± 0.03	0.01 ± 0.00	0.06 ± 0.01	0.05 ± 0.01	0.12 ± 0.01
154	(E)-4-Decenal	1195	1197	92	0.29 ± 0.03	0.11 ± 0.01	0.03 ± 0.00	0.02 ± 0.00	0.11 ± 0.01	0.08 ± 0.01
155	$\alpha$ -Terpineol	1198	1195	95	1.07 ± 0.11	1.85 ± 0.20	0.24 ± 0.03	0.57 ± 0.06	1.18 ± 0.13	1.17 ± 0.13
156	<i>n</i> -Dodecane	1200	1200	92	1.02 ± 0.11	0.78 ± 0.08	0.19 ± 0.02	0.21 ± 0.02	-	-
157	1,6-Dihydrocarveol	1201	1203	91	0.86 ± 0.09	0.03 ± 0.00	-	-	3.28 ± 0.35	1.30 ± 0.14
158	(E)-Dihydrocarvone	1204	1204	90	0.24 ± 0.03	-	-	-	0.58 ± 0.06	0.15 ± 0.02
159	Decanal	1207	1208	93	0.07 ± 0.01	0.52 ± 0.06	0.18 ± 0.02	0.51 ± 0.05	-	0.87 ± 0.09
160	Verbenone	1208	1205	90	0.38 ± 0.04	0.05 ± 0.01	-	-	-	0.08 ± 0.01
161	Octyl acetate	1210	1214	90	0.01 ± 0.00	0.09 ± 0.01	0.05 ± 0.01	0.14 ± 0.02	0.36 ± 0.04	0.10 ± 0.01
162	2,5-Dimethyl-undecane	1211	1210	90	0.21 ± 0.02	0.08 ± 0.01	0.05 ± 0.01	0.05 ± 0.01	0.18 ± 0.02	0.02 ± 0.00
163	(2E,4E)-Nonadienal	1218	1218	91	0.04 ± 0.00	0.13 ± 0.01	0.02 ± 0.00	0.18 ± 0.02	0.09 ± 0.01	0.40 ± 0.04
164	Fenchyl acetate	1220	1219	90	0.01 ± 0.00	0.08 ± 0.01	0.05 ± 0.01	0.11 ± 0.01	-	0.09 ± 0.01
165	Citronellyl nitrile	1221	1221	90	0.13 ± 0.01	0.24 ± 0.03	-	0.11 ± 0.01	0.08 ± 0.01	0.25 ± 0.03
166	(E)- <i>p</i> -Mentha-1(7),8-dien-2-ol	1226	1230	91	0.09 ± 0.01	0.07 ± 0.01	-	-	0.14 ± 0.02	0.08 ± 0.01
167	Decane, 5-ethyl-5-methyl-(Z)-3-Hexenyl-2-methylbutanoate	1229	-	92	0.13 ± 0.01	0.08 ± 0.01	0.04 ± 0.00	0.01 ± 0.00	0.16 ± 0.02	0.22 ± 0.02
168		1230	1231	90	1.06 ± 0.11	0.32 ± 0.03	0.08 ± 0.01	0.05 ± 0.01	0.06 ± 0.01	0.03 ± 0.00
169	6-Ethyl-undecane	1231	1230	93	0.47 ± 0.05	0.24 ± 0.03	0.16 ± 0.02	0.07 ± 0.01	0.10 ± 0.01	0.15 ± 0.02
170	Cuminaldehyde	1240	1243	90	0.57 ± 0.06	0.03 ± 0.00	0.01 ± 0.00	0.14 ± 0.02	0.21 ± 0.02	0.27 ± 0.03
171	Carvone	1245	1246	90	0.09 ± 0.01	0.05 ± 0.01	0.04 ± 0.00	0.01 ± 0.00	1.61 ± 0.17	7.55 ± 0.81
172	(Z)-2-Decenal	1248	1250	91	0.09 ± 0.01	0.17 ± 0.02	0.03 ± 0.00	0.04 ± 0.00	0.14 ± 0.02	0.06 ± 0.01
173	Linalyl acetate	1250	1250	92	0.86 ± 0.09	0.15 ± 0.02	0.65 ± 0.07	0.68 ± 0.07	0.19 ± 0.02	0.01 ± 0.00
174	Ionane	1253	1246	92	0.47 ± 0.05	0.14 ± 0.02	0.02 ± 0.00	0.10 ± 0.01	0.08 ± 0.01	0.06 ± 0.01
175	(E)-2-Decenal	1264	1265	94	0.56 ± 0.06	2.94 ± 0.32	0.59 ± 0.06	0.95 ± 0.10	0.19 ± 0.02	1.55 ± 0.17
176	Nonanoic acid	1274	1289	95	0.08 ± 0.01	0.04 ± 0.00	0.38 ± 0.04	0.27 ± 0.03	0.30 ± 0.03	0.03 ± 0.00
177	Bornyl acetate	1287	1285	96	0.97 ± 0.10	0.29 ± 0.03	0.32 ± 0.03	0.46 ± 0.05	0.29 ± 0.03	0.28 ± 0.03
178	2- <i>tert</i> -Butyl-, (Z)-cyclohexanol acetate	1295	1291	90	0.04 ± 0.00	0.15 ± 0.02	0.20 ± 0.02	0.27 ± 0.03	0.03 ± 0.00	0.71 ± 0.08
179	1-Tridecene	1297	1292	90	0.36 ± 0.04	0.18 ± 0.02	-	0.08 ± 0.01	0.41 ± 0.04	0.01 ± 0.00
180	<i>n</i> -Tridecane	1300	1300	91	0.07 ± 0.01	0.36 ± 0.04	0.02 ± 0.00	0.02 ± 0.00	0.83 ± 0.09	0.03 ± 0.00
181	1-Terpinen-4-yl acetate	1301	1296	90	0.13 ± 0.01	0.52 ± 0.06	0.01 ± 0.00	0.27 ± 0.03	-	0.01 ± 0.00
182	Carvacrol	1302	1300	91	0.08 ± 0.01	0.06 ± 0.01	0.38 ± 0.04	0.02 ± 0.00	0.30 ± 0.03	0.80 ± 0.09
183	<i>n</i> -Undecanal	1309	1309	90	0.01 ± 0.00	0.42 ± 0.05	0.02 ± 0.00	0.03 ± 0.00	0.56 ± 0.06	0.46 ± 0.05
184	Dihydro citronellol acetate	1312	1319	91	0.09 ± 0.01	0.21 ± 0.02	0.17 ± 0.02	0.08 ± 0.01	0.29 ± 0.03	0.07 ± 0.01
185	(Z)-3-Hexenyl tiglate	1322	1325	93	0.53 ± 0.06	1.04 ± 0.11	0.02 ± 0.00	0.04 ± 0.00	0.22 ± 0.02	0.33 ± 0.04

186	$\gamma$ -Terpinyl acetate	1349	1358	91	0.16 $\pm$ 0.02	0.26 $\pm$ 0.03	0.14 $\pm$ 0.02	0.28 $\pm$ 0.03	0.55 $\pm$ 0.06	0.25 $\pm$ 0.03
187	5-Methyl tridecane	1350	1348	92	0.07 $\pm$ 0.01	0.04 $\pm$ 0.00	0.02 $\pm$ 0.00	-	0.04 $\pm$ 0.00	0.03 $\pm$ 0.00
188	Eugenol	1351	1357	90	0.01 $\pm$ 0.00	-	0.03 $\pm$ 0.00	0.01 $\pm$ 0.00	0.23 $\pm$ 0.02	0.01 $\pm$ 0.00
189	(Z)-Geranyl acetate	1355	1361	91	0.02 $\pm$ 0.00	0.03 $\pm$ 0.00	0.05 $\pm$ 0.01	0.08 $\pm$ 0.01	-	-
190	2(3H)-Furanone, dihydro-5-pentyl-	1359	1362	90	0.09 $\pm$ 0.01	0.01 $\pm$ 0.00	0.04 $\pm$ 0.00	0.01 $\pm$ 0.00	0.08 $\pm$ 0.01	0.09 $\pm$ 0.01
191	(Z)-8-Undecenal	1361	1365	93	0.05 $\pm$ 0.01	0.13 $\pm$ 0.01	0.04 $\pm$ 0.00	0.03 $\pm$ 0.00	0.19 $\pm$ 0.02	0.14 $\pm$ 0.02
192	Isoledene	1369	1372	91	0.25 $\pm$ 0.03	0.04 $\pm$ 0.00	0.01 $\pm$ 0.00	0.10 $\pm$ 0.01	0.19 $\pm$ 0.02	0.08 $\pm$ 0.01
193	$\alpha$ -Ylangene	1373	1371	90	0.51 $\pm$ 0.05	0.53 $\pm$ 0.06	0.79 $\pm$ 0.08	0.91 $\pm$ 0.10	0.24 $\pm$ 0.03	0.52 $\pm$ 0.06
194	Cyclosativene	1377	1367	90	0.33 $\pm$ 0.04	-	0.02 $\pm$ 0.00	-	0.62 $\pm$ 0.07	0.04 $\pm$ 0.00
195	$\alpha$ -Copaene	1380	1375	92	1.00 $\pm$ 0.11	0.98 $\pm$ 0.11	1.56 $\pm$ 0.17	1.82 $\pm$ 0.20	0.06 $\pm$ 0.01	0.69 $\pm$ 0.07
196	$\beta$ -Bourbonene	1381	1382	90	0.13 $\pm$ 0.01	0.05 $\pm$ 0.01	0.01 $\pm$ 0.00	0.02 $\pm$ 0.00	0.25 $\pm$ 0.03	0.32 $\pm$ 0.03
197	$\beta$ -Elemene	1387	1390	90	0.16 $\pm$ 0.02	0.20 $\pm$ 0.02	0.02 $\pm$ 0.00	-	-	0.13 $\pm$ 0.01
198	$\alpha$ -Gurjunene	1395	1406	92	-	-	0.04 $\pm$ 0.00	0.07 $\pm$ 0.01	0.02 $\pm$ 0.00	0.01 $\pm$ 0.00
199	Sativene	1397	1394	93	0.13 $\pm$ 0.01	0.05 $\pm$ 0.01	0.02 $\pm$ 0.00	0.03 $\pm$ 0.00	0.03 $\pm$ 0.00	0.04 $\pm$ 0.00
200	<i>n</i> -Tetradecane	1400	1400	91	0.17 $\pm$ 0.02	0.71 $\pm$ 0.08	0.04 $\pm$ 0.00	-	0.18 $\pm$ 0.02	0.06 $\pm$ 0.01
201	Decyl methyl ketone	1401	1393	90	0.18 $\pm$ 0.02	-	0.04 $\pm$ 0.00	0.03 $\pm$ 0.00	0.05 $\pm$ 0.01	0.02 $\pm$ 0.00
202	Dodecanal	1404	1410	91	-	-	-	0.02 $\pm$ 0.00	-	0.01 $\pm$ 0.00
203	(Z)-Caryophyllene	1410	1413	90	0.47 $\pm$ 0.05	0.11 $\pm$ 0.01	-	0.47 $\pm$ 0.05	0.47 $\pm$ 0.05	0.04 $\pm$ 0.00
204	$\beta$ -Longipinene	1416	1405	92	0.14 $\pm$ 0.02	-	0.08 $\pm$ 0.01	0.34 $\pm$ 0.04	0.03 $\pm$ 0.00	-
205	Bicyclo [5.2.0]nonane, 2-methylene-4,8,8-trimethyl-4-vinyl-	1418	-	90	0.04 $\pm$ 0.00	1.01 $\pm$ 0.11	0.15 $\pm$ 0.02	0.16 $\pm$ 0.02	0.11 $\pm$ 0.01	0.43 $\pm$ 0.05
206	Bicyclo[5.2.0]nonane, 4-methylene-2,8,8-trimethyl-2-vinyl-	1419	-	90	0.47 $\pm$ 0.05	0.24 $\pm$ 0.03	0.02 $\pm$ 0.00	-	0.06 $\pm$ 0.01	0.26 $\pm$ 0.03
207	Isocaryophyllene	1420	1419	91	0.23 $\pm$ 0.02	-	-	-	0.13 $\pm$ 0.01	0.05 $\pm$ 0.01
208	$\gamma$ -Elemene	1421	1432	90	0.05 $\pm$ 0.01	0.33 $\pm$ 0.04	0.01 $\pm$ 0.00	-	-	0.07 $\pm$ 0.01
209	(E)-Caryophyllene	1425	1425	96	4.78 $\pm$ 0.51	5.73 $\pm$ 0.61	8.31 $\pm$ 0.89	9.28 $\pm$ 0.99	11.62 $\pm$ 1.24	12.47 $\pm$ 1.34
210	$\alpha$ -Guaiene	1435	1438	93	4.12 $\pm$ 0.44	0.01 $\pm$ 0.00	0.02 $\pm$ 0.00	-	tr	-
211	10,10-Dimethyl-2,6-dimethylenebicyclo[7.2.0]undecane	1433	1440	91	-	0.02 $\pm$ 0.00	0.40 $\pm$ 0.04	0.58 $\pm$ 0.06	0.43 $\pm$ 0.05	0.75 $\pm$ 0.08
212	Isopentyl benzoate	1442	1439	93	0.38 $\pm$ 0.04	0.11 $\pm$ 0.01	0.01 $\pm$ 0.00	0.11 $\pm$ 0.01	0.18 $\pm$ 0.02	0.05 $\pm$ 0.01
213	(E)- $\alpha$ -Bergamotene	1434	1432	90	-	0.03 $\pm$ 0.00	0.03 $\pm$ 0.00	-	tr	0.01 $\pm$ 0.00
214	Aromadendrene	1451	1438	90	0.04 $\pm$ 0.00	0.04 $\pm$ 0.00	0.04 $\pm$ 0.00	0.04 $\pm$ 0.00	0.03 $\pm$ 0.00	-
215	(E)-Geranylacetone	1453	1450	95	0.29 $\pm$ 0.03	1.34 $\pm$ 0.14	0.41 $\pm$ 0.04	1.59 $\pm$ 0.17	0.66 $\pm$ 0.07	0.45 $\pm$ 0.05
216	(E)-9-epi-Caryophyllene	1456	1464	90	0.37 $\pm$ 0.04	0.45 $\pm$ 0.05	0.24 $\pm$ 0.03	0.77 $\pm$ 0.08	0.74 $\pm$ 0.08	0.69 $\pm$ 0.07
217	$\alpha$ -Humulene	1463	1454	95	1.48 $\pm$ 0.16	1.05 $\pm$ 0.11	0.95 $\pm$ 0.10	2.19 $\pm$ 0.23	2.52 $\pm$ 0.27	2.32 $\pm$ 0.25
218	Guaia-6,9-diene	1452	-	91	-	0.01 $\pm$ 0.00	0.02 $\pm$ 0.00	0.03 $\pm$ 0.00	0.02 $\pm$ 0.00	-
219	Germacrene D	1479	1480	92	0.05 $\pm$ 0.01	0.12 $\pm$ 0.01	0.12 $\pm$ 0.01	0.14 $\pm$ 0.02	0.20 $\pm$ 0.02	0.08 $\pm$ 0.01
220	$\gamma$ -Muurolene	1481	1478	94	0.69 $\pm$ 0.07	1.11 $\pm$ 0.12	1.57 $\pm$ 0.17	1.56 $\pm$ 0.17	0.98 $\pm$ 0.11	0.73 $\pm$ 0.08
221	$\alpha$ -Amorphene	1485	1482	90	0.33 $\pm$ 0.04	0.37 $\pm$ 0.04	0.39 $\pm$ 0.04	0.57 $\pm$ 0.06	0.52 $\pm$ 0.06	0.26 $\pm$ 0.03
222	$\delta$ -Selinene	1492	1489	96	0.30 $\pm$ 0.03	0.49 $\pm$ 0.05	0.62 $\pm$ 0.07	0.80 $\pm$ 0.09	0.35 $\pm$ 0.04	0.26 $\pm$ 0.03
223	$\beta$ -Selinene	1495	1492	94	0.17 $\pm$ 0.02	0.31 $\pm$ 0.03	0.46 $\pm$ 0.05	0.43 $\pm$ 0.05	0.46 $\pm$ 0.05	0.25 $\pm$ 0.03
224	$\varepsilon$ -Amorphene	1498	1502	91	0.09 $\pm$ 0.01	0.27 $\pm$ 0.03	0.29 $\pm$ 0.03	0.33 $\pm$ 0.04	0.30 $\pm$ 0.03	0.13 $\pm$ 0.01
225	(Z)- $\beta$ -Guaiene	1499	1498	90	0.19 $\pm$ 0.02	-	0.41 $\pm$ 0.04	0.65 $\pm$ 0.07	-	-
226	$\alpha$ -Muurolene	1502	1497	92	0.46 $\pm$ 0.05	0.62 $\pm$ 0.07	0.49 $\pm$ 0.05	0.70 $\pm$ 0.08	0.10 $\pm$ 0.01	0.03 $\pm$ 0.00
227	$\alpha$ -Selinene	1500	1501	92	-	-	-	-	0.93 $\pm$ 0.10	0.63 $\pm$ 0.07
228	$\beta$ -Bisabolene	1511	1511	90	0.14 $\pm$ 0.02	0.09 $\pm$ 0.01	-	0.06 $\pm$ 0.01	0.17 $\pm$ 0.02	0.11 $\pm$ 0.01
229	2,4-bis(1,1-Dimethylethyl)-phenol	1512	1519	91	0.04 $\pm$ 0.00	-	0.01 $\pm$ 0.00	0.03 $\pm$ 0.00	-	0.18 $\pm$ 0.02
230	$\delta$ -Cadinene	1523	1518	97	0.84 $\pm$ 0.09	0.53 $\pm$ 0.06	0.98 $\pm$ 0.11	0.91 $\pm$ 0.10	0.31 $\pm$ 0.03	0.35 $\pm$ 0.04
231	(E)-Calamenene	1526	1527	90	0.07 $\pm$ 0.01	0.10 $\pm$ 0.01	0.30 $\pm$ 0.03	0.44 $\pm$ 0.05	0.11 $\pm$ 0.01	0.10 $\pm$ 0.01
232	(E)-Cadina-1,4-diene	1538	1536	91	0.11 $\pm$ 0.01	0.11 $\pm$ 0.01	0.02 $\pm$ 0.00	0.15 $\pm$ 0.02	0.13 $\pm$ 0.01	0.03 $\pm$ 0.00
233	Selina-4(15),7(11)-diene	1543	1540	90	0.29 $\pm$ 0.03	-	0.21 $\pm$ 0.02	0.36 $\pm$ 0.04	0.10 $\pm$ 0.01	-
234	$\alpha$ -Calacorene	1546	1547	90	0.04 $\pm$ 0.00	0.08 $\pm$ 0.01	0.06 $\pm$ 0.01	0.17 $\pm$ 0.02	0.06 $\pm$ 0.01	0.05 $\pm$ 0.01
235	Selina-3,7(11)-diene	1548	1546	92	0.16 $\pm$ 0.02	0.05 $\pm$ 0.01	0.06 $\pm$ 0.01	0.09 $\pm$ 0.01	0.16 $\pm$ 0.02	0.11 $\pm$ 0.01
236	Italicene epoxide	1556	1546	90	0.03 $\pm$ 0.00	0.12 $\pm$ 0.01	0.08 $\pm$ 0.01	0.20 $\pm$ 0.02	0.19 $\pm$ 0.02	0.09 $\pm$ 0.01
237	2-Methyl-, 4-(2,6,6-trimethyl-1-cyclohexen-1-yl)-but-2-enal	1578	1581	92	0.01 $\pm$ 0.00	-	-	-	1.14 $\pm$ 0.12	0.64 $\pm$ 0.07
238	Caryophyllene oxide	1590	1587	90	0.28 $\pm$ 0.03	0.35 $\pm$ 0.04	0.44 $\pm$ 0.05	0.39 $\pm$ 0.04	0.18 $\pm$ 0.02	0.20 $\pm$ 0.02
239	(Z)-3-Hexenyl-benzoate	1593	1573	90	0.21 $\pm$ 0.02	0.08 $\pm$ 0.01	-	0.01 $\pm$ 0.00	0.04 $\pm$ 0.00	0.06 $\pm$ 0.01
240	Caryolan-8-ol	1594	1575	91	0.03 $\pm$ 0.00	0.11 $\pm$ 0.01	-	0.02 $\pm$ 0.00	0.26 $\pm$ 0.03	-
241	Caryophyllene alcohol	1595	1575	95	0.05 $\pm$ 0.01	0.18 $\pm$ 0.02	0.02 $\pm$ 0.00	0.08 $\pm$ 0.01	-	0.13 $\pm$ 0.01
242	<i>n</i> -Hexadecane	1600	1600	90	0.03 $\pm$ 0.00	0.14 $\pm$ 0.02	0.01 $\pm$ 0.00	0.15 $\pm$ 0.02	0.22 $\pm$ 0.02	0.12 $\pm$ 0.01

243	Humulene epoxide I	1602	1604	90	0.04 ± 0.00	0.04 ± 0.00	0.08 ± 0.01	0.21 ± 0.02	0.05 ± 0.01	0.02 ± 0.00
244	n-Tetradecanal	1612	1614	92	0.02 ± 0.00	0.02 ± 0.00	0.02 ± 0.00	0.05 ± 0.01	0.12 ± 0.01	0.02 ± 0.00
245	Isopropyl-laurate	1615	1625	91	0.11 ± 0.01	0.56 ± 0.06	0.03 ± 0.00	0.01 ± 0.00	0.02 ± 0.00	0.03 ± 0.00
246	Humulene epoxide II	1618	1613	90	0.03 ± 0.00	0.05 ± 0.01	0.04 ± 0.00	0.07 ± 0.01	0.08 ± 0.01	0.01 ± 0.00
247	Muurola-4,10(14)-dien-1-beta-ol	1632	1632	90	0.02 ± 0.00	0.02 ± 0.00	0.03 ± 0.00	0.02 ± 0.00	0.08 ± 0.01	0.01 ± 0.00
248	allo-Aromandendrene epoxide	1640	1644	90	-	-	0.02 ± 0.00	0.03 ± 0.00	0.04 ± 0.00	0.03 ± 0.00
249	Humulenol-II	1644	1650	90	0.08 ± 0.01	-	0.07 ± 0.01	0.10 ± 0.01	0.07 ± 0.01	0.03 ± 0.00
250	Caryophylla-4(12),8(13)-dien-5-beta-ol	1645	1636	93	0.07 ± 0.01	0.05 ± 0.01	0.10 ± 0.01	0.20 ± 0.02	0.05 ± 0.01	0.05 ± 0.01
251	4-Cadinen-10-ol	1659	1659	90	0.03 ± 0.00	0.07 ± 0.01	0.01 ± 0.00	0.04 ± 0.00	0.04 ± 0.00	
252	Germacra-4(15),5,10(14)-trien-1-alpha-ol	1665	1683	90	0.05 ± 0.01	-	0.09 ± 0.01	0.11 ± 0.01	0.16 ± 0.02	0.09 ± 0.01
253	Cadalene	1681	1677	90	0.03 ± 0.00	0.05 ± 0.01	0.01 ± 0.00	0.10 ± 0.01	0.17 ± 0.02	0.01 ± 0.00
254	n-Heptadecane	1700	1700	94	0.01 ± 0.00	-	0.02 ± 0.00	0.04 ± 0.00	0.04 ± 0.00	0.07 ± 0.01
255	Phytone	1843	1841	92	0.02 ± 0.00	0.01 ± 0.00	-	0.03 ± 0.00	0.04 ± 0.00	0.01 ± 0.00
256	(5E,9E)-Farnesyl acetone	1916	1915	90	0.01 ± 0.00	0.02 ± 0.00	0.01 ± 0.00	0.04 ± 0.00	0.01 ± 0.00	0.01 ± 0.00
257	Methyl-hexadecanoate	1923	1925	90	0.01 ± 0.00	-	0.01 ± 0.00	0.05 ± 0.01	0.04 ± 0.00	tr
258	Cembrene	1934	1939	94	0.19 ± 0.02	0.49 ± 0.05	0.17 ± 0.02	1.21 ± 0.13	0.96 ± 0.10	0.91 ± 0.10
259	Cembrene ISOMER	1948	-	90	0.01 ± 0.00	-	-	0.03 ± 0.00	0.03 ± 0.00	0.02 ± 0.00
260	Neocembrene	1965	1960	95	0.02 ± 0.00	0.03 ± 0.00	0.01 ± 0.00	0.07 ± 0.01	0.06 ± 0.01	0.05 ± 0.01
261	Ethyl palmitate	1990	1993	90	0.02 ± 0.00	-	-	0.02 ± 0.00	0.04 ± 0.00	tr
262	Cembrene C	2019	2020	90	0.06 ± 0.01	-	-	-	0.02 ± 0.00	0.01 ± 0.00
<b>TOTAL</b>					<b>87.49 ± 9.37</b>	<b>96.19 ± 10.30</b>	<b>86.71 ± 9.29</b>	<b>99.47 ± 10.66</b>	<b>90.17 ± 9.66</b>	<b>97.20 ± 10.41</b>

The compounds number is reported in order of elution, considering the total number of compounds eluted. tr-traces

**Table S2.** Identification of the polyphenolic compounds in *R. coriaria* extracts by using HILIC×RP-LC-PDA/MS in positive and negative ionization mode.

Peak No.	Compound	Chemical family	T <sub>R</sub> (min) RSD (%) (n=6)	[M-H] <sup>-</sup> /[M+H] <sup>+</sup>	λ <sub>max</sub> (nm)	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6
1	Tetragalloyl-hexoside	Gallic acid derivate	1.515 (0.57)	787/-	277	x	x	x	x	x	-
2	Pentagalloyl-hexoside	Gallic acid derivate	1.61 (0.47)	939/-	277	x	x	x	x	x	-
3	Hexagalloyl-hexoside	Gallic acid derivate	1.64 (0.66)	1091/-	278	x	x	x	x	x	x
4	Heptagalloyl-hexoside	Gallic acid derivate	1.70 (0.75)	1243/-	276	x	x	x	x	x	x
5	Octagalloyl-hexoside	Gallic acid derivate	1.73 (0.73)	1395/-	276	x	x	x	x	x	x
6	Nonagalloyl-hexoside	Gallic acid derivate	1.78 (0.60)	1547/-	275	x	x	x	x	x	x
7	Galloyl-valoneic acid bilactone I	Gallic acid derivate	5.64 (0.04)	621/-	279	-	-	x	x	-	-
8	Galloyl-valoneic acid bilactone II	Gallic acid derivate	7.64 (0.06)	621/-	278	-	-	x	x	-	-
9	Chrysoriol	Luteolin derivate	11.42 (0.11)	-/301	277	x	x	x	x	x	x
10	Quercetin rhamnoside I	Quercetin derivate	11.65 (0.07)	447/449	254, 352	x	x	-	-	-	-
11	Quercetin rhamnoside II	Quercetin derivate	12.50 (0.17)	447/449	254, 352	x	x	x	x	-	x
12	Malic acid	Malic acid derivate	13.19 (0.07)	133/-	237	x	x	x	x	x	x
13	Levoglucozan gallate	Gallic acid derivate	13.75 (0.06)	313/315	286	x	x	x	-	-	-
14	Protocatechuic acid hexoside	Protocatechuic acid derivate	15.47 (0.11)	315/-	258	x	x	x	x	x	x
15	Rutin	Quercetin derivate	15.75	609/-	266, 353	x	-	-	-	-	-
16	Quercetin hexoside I	Quercetin derivate	15.76 (0.09)	463/465	259, 350	x	x	x	x	x	x
17	Quercetin hexoside II	Quercetin derivate	15.77 (0.11)	463/465	259, 350	x	x	x	x	x	x
18	Quercetin hexoside III	Quercetin derivate	15.80 (0.10)	463/465	259, 350	-	x	x	x	-	-
19	Methyl digallate I	Gallic acid derivate	15.82 (0.03)	335/-	265	x	x	x	x	-	x
20	Methyl digallate II	Gallic acid derivate	15.83 (0.02)	335/-	265	-	-	x	x	-	-
21	Quercetin rhamnoside III	Quercetin derivate	15.84 (0.11)	447/449	259, 350	x	x	x	x	x	x
22	Apiin	Quercetin derivate	15.88 (0.05)	563/-	267, 332	x	x	x	x	-	-
23	Quercetin hexoside IV	Quercetin derivate	15.91 (0.09)	463/465	259, 350	x	x	x	x	-	-
24	Quercetin	Quercetin derivate	15.92 (0.06)	301/303	259, 350	x	x	-	-	-	x
25	Gallic acid	Gallic acid derivate	16.37 (0.08)	169/-	277	x	x	x	x	x	x
26	Galloyl shikimic acid I	Gallic acid derivate	16.42 (0.07)	325/-	276	x	x	x	x	-	-
27	Gallic acid O-malic acid I	Gallic acid derivate	16.48 (0.08)	285/-	276	x	x	x	x	x	x
28	Peonidin O-glucoside I	Cyanidin derivate	16.65 (0.01)	-/463	282, 515	x	x	x	x	x	-
29	Myricetin	Quercetin derivate	16.69 (0.09)	-/319	260, 359	x	x	x	x	x	x
30	Galloylshikimic acid II	Gallic acid derivate	17.52 (0.15)	325/-	273	x	-	x	x	x	-
31	Gallic acid O-malic acid II	Gallic acid derivate	17.56 (0.13)	285/-	276	x	x	x	x	x	x
32	Apigenin glucoside	Apigenin derivate	17.80	-/433	265, 344	-	-	-	-	x	-
33	Peonidin O-glucoside II	Cyanidin derivate	17.85 (0.02)	-/463	280, 515	x	x	x	x	-	x
34	Myricetin O-rhamnosylglucose	Quercetin derivate	17.92 (0.11)	-/625	262, 357	-	x	x	x	-	x
35	Myricetin O-glucuronide I	Quercetin derivate	17.97 (0.05)	493/495	262, 355	x	x	-	-	-	-
36	Quinic acid	Quinic acid derivate	18.20	191/-	237	x	x	x	x	x	-

37	Galloylshikimic acid III	Gallic acid derivate	(0.09) 18.47	325/-	274	-	-	x	-	-	-
38	Peonidin O-pentoside	Cyanidin derivate	18.81 (0.24)	-/433	273, 503	x	x	x	x	-	-
39	Myricetin O-glucuronide II	Quercetin derivate	18.93 (0.06)	493/495	261, 355	x	x	x	x	-	x
40	Quercetin rhamnoside IV	Quercetin derivate	19.94 (0.02)	447/449	262, 354	x	x	-	-	-	-
41	Di-galloyl hexoside I	Gallic acid derivate	21.70 (0.05)	483/-	275	x	x	x	x	x	x
42	Cyanidin O-hexoside I O-Methyl	Cyanidin derivate	21.73	-/449	279, 517	-	-	x	-	-	-
43	cyanidinO(2''galloyl)-galactoside	Cyanidin derivate	21.89	-/615	278, 518	-	-	x	-	-	-
44	Galloyl hexoside I	Gallic acid derivate	22.20 (0.11)	331/-	275	x	-	x	-	-	-
45	Cyanidin O-hexoside II	Cyanidin derivate	22.22	-/449	274, 516	-	-	x	-	-	-
46	Di-galloyl hexoside II	Gallic acid derivate	22.59	483/-	276	x	-	-	-	-	-
47	Di-galloyl hexoside III O-Methyl-cyanidin	Gallic acid derivate	22.70 (0.08)	483/-	276	x	x	x	x	x	x
48	O(2''galloyl)-galactoside II	Cyanidin derivate	22.90 (0.06)	-/615	278, 516	x	x	x	x	-	x
49	Galloylpyrogallol	Gallic acid derivate	23.20 (0.11)	277/-	238	x	x	-	-	-	x
50	Galloyl hexoside II	Gallic acid derivate	23.37 (0.02)	331/-	275	x	-	x	x	-	-
51	O-galloylnorbergenin I	Gallic acid derivate	23.48 (0.11)	-/467	276	x	-	x	x	-	-
52	Digalloyl hexoside malic acid I	Gallic acid derivate	23.58	599/-	276	-	x	-	-	-	-
53	Di-galloyl hexoside IV	Gallic acid derivate	23.63 (0.15)	483/-	276	x	-	x	x	x	-
54	Cyanidin O-hexoside III	Cyanidin derivate	23.74 (0.02)	-/449	279, 518	-	x	x	x	-	-
55	Tri-galloyl-hexoside I O-Methyl-cyanidin	Gallic acid derivate	23.80 (0.14)	635/-	276	x	x	x	x	-	-
56	O(2''galloyl)-galactoside III	Cyanidin derivate	23.89	-/615	278, 516	-	-	x	-	-	-
57	Galloyl hexoside III	Gallic acid derivate	24.21 (0.01)	331/-	275	x	-	x	x	x	-
58	Di-galloyl hexoside V	Gallic acid derivate	24.30 (0.01)	483/-	274	-	-	x	x	x	-
59	O-galloylnorbergenin II	Gallic acid derivate	25.44 (0.24)	-/467	277	x	-	-	x	-	-
60	Digalloyl hexoside malic acid II	Gallic acid derivate	25.52 (0.13)	599/-	277	x	x	x	x	-	-
61	Trigalloyllevoglucosan I	Gallic acid derivate	25.67 (0.10)	-/619	278	x	x	x	x	-	x
62	Digalloyl hexoside malic acid III	Gallic acid derivate	26.48 (0.12)	599/-	277	x	x	x	x	-	-
63	Digalloyl hexoside VI	Gallic acid derivate	26.60 (0.16)	483/-	274	x	x	x	x	x	x
64	Tri-galloyl-hexoside II	Gallic acid derivate	26.80 (0.08)	635/-	276	x	x	x	x	-	x
65	O-galloylnorbergenin III	Gallic acid derivate	27.43 (0.11)	-/467	277	x	x	x	x	-	x
66	O-galloylnorbergenin IV	Gallic acid derivate	27.65 (0.13)	-/467	277	x	-	x	x	-	x
67	Tri-galloyl-hexoside III	Gallic acid derivate	27.83 (0.11)	635/-	276	x	x	x	x	-	x
68	Di-O-galloyl-hexahydroxydiphenoyl-scylo-quercitol I	Gallic acid derivate	27.95 (0.10)	-/771	278	x	-	-	-	-	x
69	Digalloyl hexoside VII	Gallic acid derivate	28.62 (0.13)	483/-	275	x	x	x	x	-	-
70	Tri-galloyl-hexoside IV	Gallic acid derivate	29.73 (0.14)	635/-	276	x	-	x	x	-	-
71	Di-O-galloyl-hexahydroxydiphenoyl-scylo-quercitol II	Gallic acid derivate	29.91 (0.04)	-/771	278	-	x	x	x	-	-
72	O-galloylnorbergenin V	Gallic acid derivate	30.62 (0.12)	-/467	275	x	x	x	x	x	x
73	Tri-galloyl-hexoside V	Gallic acid derivate	31.80	635/-	276	x	-	-	-	-	-

74	Cyanidin O-(2"-galloyl) galactoside	Cyanidin derivate	(0.02) 31.85 (0.05)	-/601	279, 517	x	-	x	x	-	-
75	Tetra-O-galloylhexoside	Gallic acid derivate	31.89 (0.01)	787/-	277	-	-	x	x	-	-
76	O-galloylnorbergenin VI	Gallic acid derivate	32.58 (0.06)	-/467	276	-	-	x	x	-	-
77	Trigalloyllevoglucosan II	Gallic acid derivate	32.63 (0.05)	-/619	276	-	-	x	x	-	-
78	Tri-galloyl-hexoside VI	Gallic acid derivate	32.75 (0.03)	635/-	276	x	x	x	-	-	x
79	Trigalloyllevoglucosan III	Gallic acid derivate	33.73 (0.04)	-/619	276	-	-	x	x	-	-
80	Trigalloyllevoglucosan IV	Gallic acid derivate	34.74 (0.13)	-/619	276	x	-	x	-	-	-
81	Tri-galloyl-hexoside VII	Gallic acid derivate	35.68 (0.08)	635/-	276	x	x	x	x	x	x
82	Tri-galloyl-hexoside VIII	Gallic acid derivate	35.72 (0.05)	635/-	276	-	-	x	x	-	-
83	Di-O-galloyl-hexahydroxydiphenyl-scylo-quercitol III	Gallic acid derivate	38.83 (0.09)	-/771	278	x	x	x	x	-	-