

Date : August 03, 2020

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

**Internal code** : 20G24-PTH02

**Customer identification** : Cedarwood Virginia - Berje - C70106202R

**Type** : Essential oil

**Source** : *Juniperus virginiana*

**Customer** : Plant Therapy

ANALYSIS

**Method**: PC-MAT-014  - Analysis of the composition of an essential oil or other volatile liquid by FAST GC-FID (in French); identifications validated by GC-MS.

**Analyst** : Fanny Charlier, B. Sc., chimiste à l'entraînement

**Analysis date** : July 28, 2020

Checked and approved by :

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Alexis St-Gelais, M. Sc., chimiste 2013-174

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*PHYSICOCHEMICAL DATA*

**Physical aspect:** Faintly yellow liquid

**Refractive index:** 1.5048 ± 0.0003 (20 °C; method PC-MAT-016)

*ISO 4724:2004 - OIL OF CEDARWOOD, VIRGINIAN*

<b>Compound</b>	<b>Min. %</b>	<b>Max. %</b>	<b>Observed %</b>	<b>Complies?</b>
Widdrol	2	5	2	Yes
α-Cedrol	16	25	17	Yes
Cuparene	1.5	7.0	1.5	Yes
cis-Thujopsene	10	25	20	Yes
α-Cedrene + β-funebrene	20	35	24	Yes
β-Cedrene + β-caryophyllene	4	8	5	Yes
<b>Refractive index</b>	1.5010	1.5100	1.5048	Yes

*CONCLUSION*

No adulterant, contaminant or diluent has been detected using this method.

## ANALYSIS SUMMARY – CONSOLIDATED CONTENTS

New readers of similar reports are encouraged to read table footnotes at least once.

Identification	%	Class
Unknown	0.01	Monoterpene
$\alpha$ -Pinene	0.13	Monoterpene
Camphene	tr	Monoterpene
$\alpha$ -Fenchene	0.01	Monoterpene
Thuja-2,4(10)-diene	0.01	Monoterpene
$\beta$ -Pinene	0.01	Monoterpene
$\alpha$ -Methylstyrene	0.01	Normonoterpene
Myrcene	0.01	Monoterpene
$\Delta^3$ -Carene	0.01	Monoterpene
para-Cymene	0.01	Monoterpene
Limonene	0.02	Monoterpene
$\gamma$ -Terpinene	tr	Monoterpene
Unknown	tr	Oxygenated monoterpene
para-Cymenene	0.01	Monoterpene
Terpinolene	0.01	Monoterpene
$\alpha$ -Campholenal	tr	Monoterpenic aldehyde
<i>trans</i> -Pinocarveol	0.02	Monoterpenic alcohol
Camphor	0.01	Monoterpenic ketone
Citronellal	0.01	Monoterpenic aldehyde
Borneol	0.02	Monoterpenic alcohol
Terpinen-4-ol	0.03	Monoterpenic alcohol
meta-Cymen-8-ol	0.01	Monoterpenic alcohol
para-Cymen-8-ol	0.03	Monoterpenic alcohol
$\alpha$ -Terpineol	0.03	Monoterpenic alcohol
Myrtenol	0.03	Monoterpenic alcohol
Verbenone	0.04	Monoterpenic ketone
<i>trans</i> -Carveol	0.01	Monoterpenic alcohol
Carvacrol methyl ether	0.03	Monoterpenic ether
Bornyl acetate	0.02	Monoterpenic ester
Brasila-1,10-diene	0.04	Sesquiterpene
Carvacrol	0.02	Monoterpenic alcohol
African-1-ene	0.08	Sesquiterpene
$\alpha$ -Terpinyl acetate	0.06	Monoterpenic ester
Cyclosativene II	0.16	Sesquiterpene
2-epi- $\alpha$ -Funebrene	0.76	Sesquiterpene
$\alpha$ -Duprezianene	0.75	Sesquiterpene
Isolongifolene	0.08	Sesquiterpene
$\beta$ -Elemene	0.19	Sesquiterpene
$\alpha$ -Funebrene	0.29	Sesquiterpene
$\alpha$ -Chamipinene	0.18	Sesquiterpene
Unknown	0.18	Sesquiterpene
$\beta$ -Funebrene	1.62	Sesquiterpene
$\beta$ -Cedrene	4.12	Sesquiterpene
$\alpha$ -Cedrene	22.54	Sesquiterpene
$\beta$ -Caryophyllene	0.55	Sesquiterpene

β-Duprezianene	0.62	Sesquiterpene
cis-Thujopsene	20.42	Sesquiterpene
Isobazzanene	0.19	Sesquiterpene
trans-α-Bergamotene	0.11	Sesquiterpene
β-Barbatene	0.08	Sesquiterpene
Prezizaene	0.24	Sesquiterpene
α-Himachalene	0.26	Sesquiterpene
7,8-Dehydro-α-acoradiene?	0.25	Sesquiterpene
Cadina-4,11-diene	0.11	Sesquiterpene
α-Humulene	0.12	Sesquiterpene
Thujopsadiene?	0.11	Sesquiterpene
α-Acoradiene	0.29	Sesquiterpene
(E)-β-Farnesene	1.01	Sesquiterpene
β-Acoradiene	0.02	Sesquiterpene
Thujopsene isomer	0.38	Sesquiterpene
β-Chamigrene	0.26	Sesquiterpene
Unknown	1.27	Sesquiterpene
γ-Himachalene	0.08	Sesquiterpene
Unknown	0.27	Sesquiterpene
ar-Curcumene	0.15	Sesquiterpene
Valencene	0.07	Sesquiterpene
Pseudowiddrene	1.35	Sesquiterpene
α-Chamigrene	1.04	Sesquiterpene
β-Himachalene	0.45	Sesquiterpene
α-Cuprenene	1.16	Sesquiterpene
Cuparene	1.50	Sesquiterpene
1,2-Dihydrocuparene	0.31	Sesquiterpene
α-Alaskene	0.37	Sesquiterpene
α-Dehydro-ar-himachalene	0.03	Sesquiterpene
Unknown	0.46	Sesquiterpene
1,4-Dihydrocuparene	0.13	Sesquiterpene
β-Curcumene	0.10	Sesquiterpene
7-epi-α-Selinene	0.08	Sesquiterpene
γ-Dehydro-ar-himachalene	0.03	Sesquiterpene
δ-Cadinene	0.22	Sesquiterpene
β-Sesquiphellandrene	0.24	Sesquiterpene
γ-Cuprenene	0.69	Sesquiterpene
Unknown	0.24	Oxygenated sesquiterpene
ar-Himachalene	0.16	Sesquiterpene
δ-Cuprenene epimer I	0.11	Sesquiterpene
Unknown	0.13	Oxygenated sesquiterpene
δ-Cuprenene epimer II	0.11	Sesquiterpene
Unknown	0.13	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Caryophyllenyl alcohol	0.08	Sesquiterpenic alcohol
Unknown	0.18	Oxygenated sesquiterpene
Caryophyllene oxide	0.02	Sesquiterpenic ether
Caryophyllene oxide isomer	0.01	Sesquiterpenic ether
allo-Cedrol	0.27	Sesquiterpenic alcohol
α-Cedrol	17.21	Sesquiterpenic alcohol
Widdrol	1.65	Sesquiterpenic alcohol
epi-Cedrol	0.29	Sesquiterpenic alcohol

Unknown	0.02	Oxygenated sesquiterpene
10-epi-Cubenol	0.09	Sesquiterpenic alcohol
Unknown	0.12	Oxygenated sesquiterpene
$\alpha$ -Acorenol	0.39	Sesquiterpenic alcohol
$\beta$ -Acorenol	0.16	Sesquiterpenic alcohol
Unknown	0.09	Oxygenated sesquiterpene
Unknown	0.28	Oxygenated sesquiterpene
Unknown	0.58	Oxygenated sesquiterpene
Himachalol	0.20	Sesquiterpenic alcohol
Unknown	0.01	Oxygenated sesquiterpene
Unknown	0.19	Oxygenated sesquiterpene
Unknown	0.21	Oxygenated sesquiterpene
Cedrenol analog	0.35	Sesquiterpenic alcohol
14-Hydroxy-9-epi-( <i>E</i> )-caryophyllene	0.12	Sesquiterpenic alcohol
1,7-diepi- $\alpha$ -Cedrenal?	0.12	Sesquiterpenic aldehyde
Khusiol	0.09	Sesquiterpenic alcohol
Cedr-8-en-13-ol	0.22	Sesquiterpenic alcohol
$\alpha$ -Bisabolol	0.32	Sesquiterpenic alcohol
$\alpha$ -Cedrenol	0.13	Sesquiterpenic alcohol
Unknown	0.25	Oxygenated sesquiterpene
Mayurone?	0.03	Norsesquiterpenic ketone
Thujopsenal	0.17	Sesquiterpenic aldehyde
Unknown	0.06	Oxygenated sesquiterpene
Thujopsenal analog	0.03	Sesquiterpenic aldehyde
Unknown	0.03	Oxygenated sesquiterpene
Cuparenal	0.04	Sesquiterpenic aldehyde
Unknown	0.16	Oxygenated sesquiterpene
Cedryl acetate	0.05	Sesquiterpenic ester
Unknown	0.02	Oxygenated sesquiterpene
Unknown	0.03	Oxygenated sesquiterpene
$\beta$ -Acoradienol?	0.03	Sesquiterpenic alcohol
Unknown	0.08	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.04	Oxygenated sesquiterpene
Unknown	0.07	Oxygenated sesquiterpene
Nootkatone analog	0.01	Sesquiterpenic ketone
Manool	0.07	Diterpenic alcohol
7,13-Abietadiene	0.01	Diterpene
<b>Consolidated total</b>	<b>92.18%</b>	

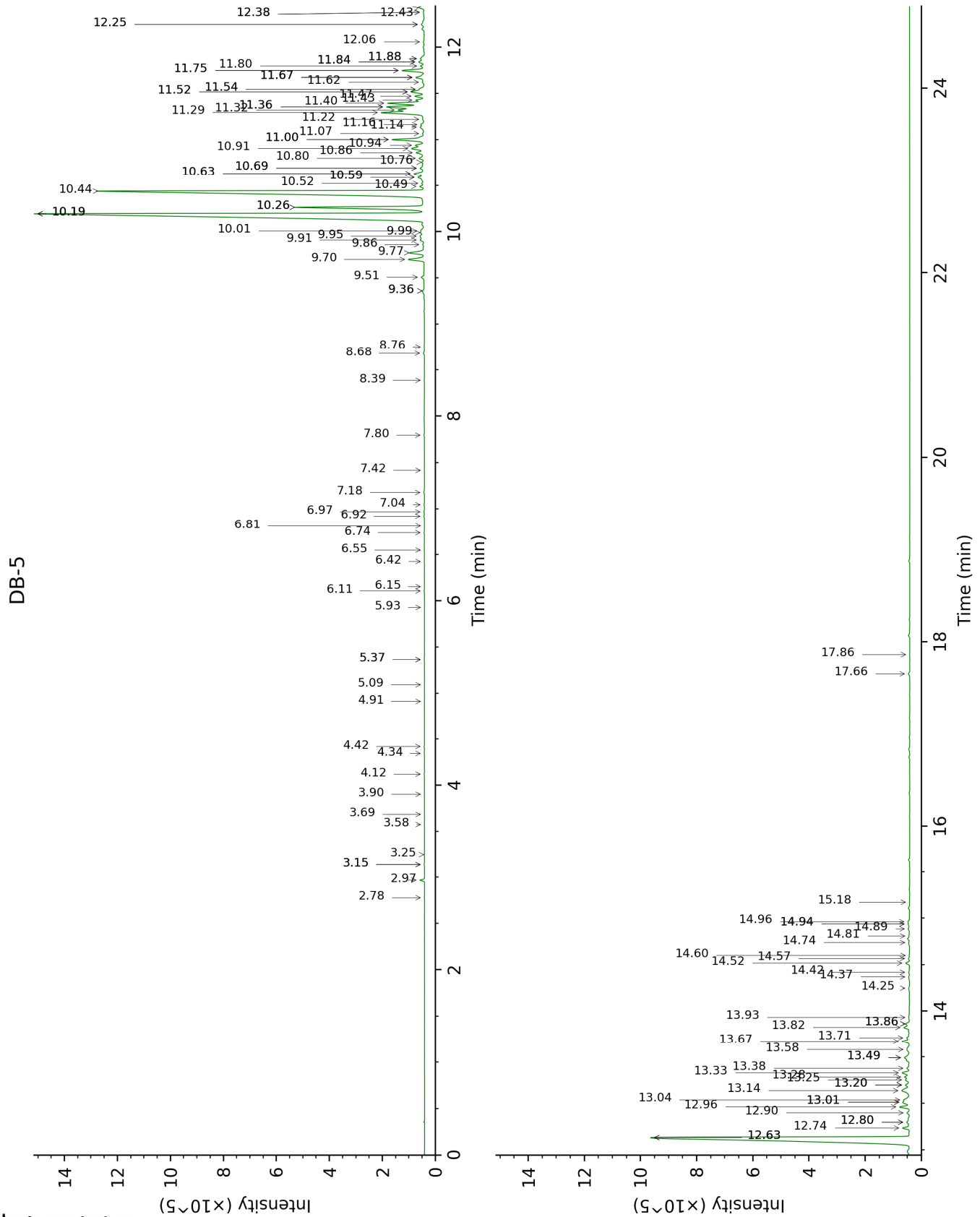
tr: The compound has been detected below 0.005% of total signal.

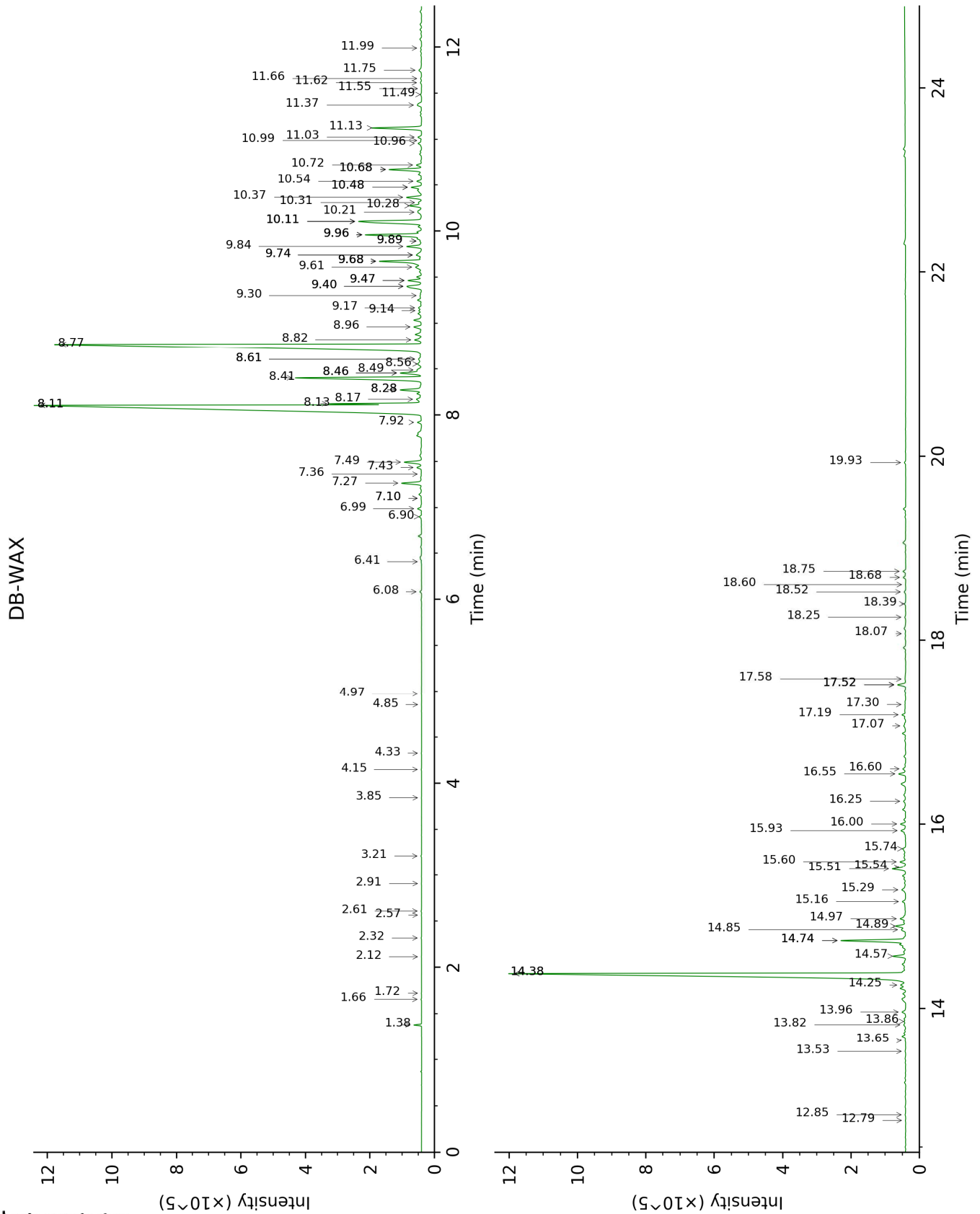
Note: no correction factor was applied

**About "consolidated" data:** The table above presents the breakdown of the sample volatile constituents after applying an algorithm to collapse data acquired from the multi-columns system of PhytoChemia into a single set of consolidated contents. In case of discrepancies between columns, the algorithm is set to prioritize data from the most standard DB-5 column, and smallest values so as to avoid overestimating individual content. This process is semi-automatic. Advanced users are invited to consult the "Full analysis data" table after the chromatograms in this report to access the full untreated data and perform their own calculations if needed.

**Unknowns:** Unknown compounds' mass spectral data is presented in the "Full analysis data" table. The occurrence of unknown compounds is to be expected in many samples, and does not denote particular problems unless noted otherwise in the conclusion.

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FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	%	R.T	R.I	%
Unknown [m/z 105, 79 (80), 91 (78), 77 (69), 78 (56), 93 (46), 120 (44)... 136 (4)]	2.78	917	0.01	2.57	1106	0.01
α-Pinene	2.97	929	0.13	1.38	989	0.12
Camphene	3.15*	941	0.02	1.72	1025	tr
α-Fenchene	3.15*	941	[0.02]	1.66	1018	0.01
Thuja-2,4(10)-diene	3.25	948	0.01	2.32	1084	0.01
β-Pinene	3.58	970	0.01	2.12	1064	0.01
α-Methylstyrene	3.69	977	0.01	4.98	1285	0.01
Myrcene	3.90	992	0.01	2.91	1132	0.01
Δ3-Carene	4.12	1006	0.01	2.61	1109	0.01
para-Cymene	4.34	1021	0.01	4.15	1226	0.01
Limonene	4.42	1025	0.02	3.21	1156	0.01
γ-Terpinene	4.91	1056	tr	3.84	1204	0.01
Unknown [m/z 79, 93 (60), 43 (40), 94 (35), 137 (33), 77 (26), 91 (20), 152 (18)]	5.09	1068	tr	4.85	1277	tr
para-Cymenene	5.37*	1085	0.02	6.41	1388	0.01
Terpinolene	5.37*	1085	[0.02]	4.33	1239	0.01
α-Campholenal	5.93	1122	tr	7.10*	1438	0.03
trans-Pinocarveol	6.11	1133	0.02	9.30	1607	0.07
Camphor	6.15	1136	0.01	7.36	1457	0.01
Citronellal	6.42	1154	0.01	7.10*	1438	[0.03]
Borneol	6.55	1162	0.02	9.89*	1654	0.04
Terpinen-4-ol	6.74	1174	0.03	8.61*	1553	0.14
meta-Cymen-8-ol	6.81	1179	0.01	11.55	1792	0.01
para-Cymen-8-ol	6.92	1186	0.03	11.62	1798	0.04
α-Terpineol	6.97	1189	0.03	9.89*	1654	[0.04]
Myrtenol	7.04	1194	0.03	10.99	1745	0.02
Verbenone	7.18	1203	0.04	9.74*	1642	0.25
trans-Carveol	7.42	1219	0.01	11.49	1786	0.04
Carvacrol methyl ether	7.80	1242	0.03	8.61*	1553	[0.14]
Bornyl acetate	8.39	1282	0.02	8.28*	1528	0.63
Brasila-1,10-diene	8.68	1302	0.04	6.08	1364	0.04
Carvacrol	8.76	1306	0.02	15.54	2160	0.05
African-1-ene	9.36*	1349	0.14	6.90	1424	0.08
α-Terpinyl acetate	9.36*	1349	[0.14]	9.74*	1642	[0.25]
Cyclosativene II	9.51	1360	0.16	6.99	1430	0.12
2-epi-α-Funebrene	9.70	1373	0.76	7.27	1450	0.60
α-Duprezianene	9.77	1378	0.75	7.49	1467	0.54
Isolongifolene	9.86	1384	0.08	7.44	1463	0.14
β-Elemene	9.91	1388	0.19	8.49†	1544	[0.85]
α-Funebrene	9.95	1391	0.29	7.92	1501	0.12
α-Chamipinene	9.99	1394	0.18	8.11*	1515	26.06

Unknown [m/z 107, 91 (86), 93 (83), 79 (81), 162 (74), 41 (73), 133 (72)... 204 (13)]	10.01	1395	0.18	8.17	1520	0.21
β-Funebrene	10.19*	1408	28.29	8.13	1516	1.62
β-Cedrene	10.19*	1408	[28.29]	8.41	1538	4.12
α-Cedrene	10.19*	1408	[28.29]	8.11*	1515	[26.06]
β-Caryophyllene	10.26*	1413	5.31	8.46*†	1542	0.85
β-Duprezianene	10.26*	1413	[5.31]	8.28*	1528	[0.63]
cis-Thujopsene	10.44	1426	20.42	8.77	1566	19.99
Isobazzanene	10.49	1430	0.19	8.56	1549	0.19
trans-α-Bergamotene	10.52	1433	0.11	8.46*†	1542	[0.85]
β-Barbatene	10.59*	1438	0.39	9.14	1594	0.08
Prezizaene	10.59*	1438	[0.39]	8.82	1570	0.24
α-Himachalene	10.63*	1441	0.54	8.96	1580	0.26
7,8-Dehydro-α-acoradiene?	10.63*	1441	[0.54]	9.61	1632	0.25
Cadina-4,11-diene	10.69*	1445	0.23	9.17	1597	0.11
α-Humulene	10.69*	1445	[0.23]	9.40*	1615	0.65
Thujopsadiene?	10.76	1450	0.11	10.21	1679	0.11
α-Acoradiene	10.80	1453	0.29	9.40*	1615	[0.65]
(E)-β-Farnesene	10.86†	1458	1.04	9.68*	1637	1.35
β-Acoradiene	10.91†	1461	[1.04]	9.47*	1620	0.40
Thujopsene isomer	10.94	1464	0.38	9.47*	1620	[0.40]
β-Chamigrene	11.00*	1468	1.52	9.68*	1637	[1.35]
Unknown [m/z 91, 105 (93), 161 (77), 93 (73), 119 (71), 133 (69)... 204 (31)]	11.00*	1468	[1.52]			
γ-Himachalene	11.07	1473	0.08	9.68*	1637	[1.35]
Unknown [m/z 189, 91 (95), 105 (93), 133 (84), 119 (75), 41 (59), 93 (46)... 204 (33)]	11.14†	1478	0.42	9.96*	1660	1.69
ar-Curcumene	11.16†	1480	[0.42]	10.72	1722	0.15
Valencene	11.22	1485	0.07	9.96*	1660	[1.69]
Pseudowiddrene	11.30†	1490	3.03	9.96*	1660	[1.69]
α-Chamigrene	11.32†	1492	[3.03]	10.11*	1671	2.58
β-Himachalene	11.36*	1495	1.61	9.84	1650	0.45
α-Cuprenene	11.36*	1495	[1.61]	10.11*	1671	[2.58]
Cuparene	11.40	1498	1.50	11.13	1756	1.38
1,2-Dihydrocuparene	11.43	1500	0.31	10.28	1685	0.36
α-Alaskene	11.47	1503	0.37	10.11*	1671	[2.58]
α-Dehydro-ar-himachalene	11.52*†	1507	0.87	11.66	1801	0.03
Unknown [m/z 121, 123 (45), 91 (24), 107 (24), 122 (24),	11.52*†	1507	[0.87]	10.37	1692	0.46

95 (23)... 204 (11)]						
1,4-Dihydrocuparene	11.54*†	1509	[0.87]	10.54	1707	0.13
β-Curcumene	11.54*†	1509	[0.87]	10.31	1688	0.10
7-epi-α-Selinene	11.62	1515	0.08	10.48*	1702	0.30
γ-Dehydro-ar-himachalene	11.67*	1519	0.49	11.99	1830	0.03
δ-Cadinene	11.67*	1519	[0.49]	10.48*	1702	[0.30]
β-Sesquiphellandrene	11.67*	1519	[0.49]	10.68*	1718	0.93
γ-Cuprenene	11.75*	1525	0.92	10.68*	1718	[0.93]
Unknown [m/z 91, 107 (97), 105 (93), 41 (92), 109 (78), 43 (78), 121 (76), 135 (75)... 220 (21)]	11.75*	1525	[0.92]			
ar-Himachalene	11.80	1529	0.16	11.75	1809	0.13
δ-Cuprenene epimer I	11.84*	1532	0.28	10.96	1742	0.11
Unknown [m/z 43, 95 (81), 207 (61), 41 (55), 55 (50)... 222 (3)]	11.84*	1532	[0.28]	13.96	2008	0.13
δ-Cuprenene epimer II	11.88*	1535	0.23	11.03	1748	0.11
Unknown [m/z 106, 41 (86), 43 (84), 149 (75), 69 (75), 91 (63), 93 (61)... 220 (1)]	11.88*	1535	[0.23]	11.37	1777	0.13
Unknown [m/z 91, 119 (98), 121 (91), 105 (85), 43 (82), 41 (76)... 205 (37), 220 (16)]	12.06	1549	0.04	13.53	1968	0.02
Caryophyllenyl alcohol	12.25*	1564	0.22	13.82	1995	0.08
Unknown [m/z 95, 191 (52), 107 (50), 121 (32), 81 (31)...]	12.25*	1564	[0.22]	14.25	2036	0.18
Caryophyllene oxide	12.38*	1574	0.08	12.85	1906	0.02
Caryophyllene oxide isomer	12.38*	1574	[0.08]	12.79	1900	0.01
allo-Cedrol	12.43	1578	0.27	14.38*	2048	17.48
α-Cedrol	12.63*	1594	18.86	14.38*	2048	[17.48]
Widdrol	12.63*	1594	[18.86]	14.74*	2082	1.92
epi-Cedrol	12.74	1602	0.29	14.89	2097	0.32
Unknown [m/z 138, 110 (77), 137 (75), 107 (62), 91 (61), 93 (60), 109 (57)... 220 (34)]	12.80*	1608	0.16	13.65	1979	0.02

10-epi-Cubenol	12.80*	1608	[0.16]	13.86	1999	0.09
Unknown [m/z 107, 41 (86), 123 (85), 82 (79), 95 (77), 93 (76), 91 (73), 69 (71)... 220 (13)]	12.90	1616	0.12	14.85	2093	0.16
$\alpha$ -Acorenol	12.96	1621	0.39	14.57	2066	0.37
$\beta$ -Acorenol	13.01*	1625	0.37	14.97	2105	0.16
Unknown [m/z 132, 175 (22), 119 (18), 91 (18), 157 (18)... 219 (10)]	13.01*	1625	[0.37]	15.74	2180	0.09
Unknown [m/z 105, 93 (78), 95 (75), 131 (72), 119 (71), 132 (70), 91 (67), 120 (49)... 202 (39), 220 (9)]	13.04	1627	0.28	16.00	2208	0.15
Unknown [m/z 132, 91 (24), 119 (22), 105 (21), 133 (17), 117 (16)... 219 (3)]	13.14	1636	0.58			
Himachalol	13.20*	1640	0.21	15.28	2136	0.20
Unknown [m/z 123, 81 (77), 95 (77), 107 (72), 41 (72), 93 (66), 55 (64)... 220? (13)]	13.20*	1640	[0.21]			
Unknown [m/z 41, 91 (96), 79 (88), 69 (82), 123 (80), 93 (80)... 220 (8)]	13.25	1645	0.19	17.52*	2366	0.24
Unknown [m/z 43, 81 (84), 41 (64), 67 (62), 95 (58), 79 (58)... 204 (48), 220 (2)]	13.28	1648	0.21	15.60	2166	0.17
Cedrenol analog	13.33	1651	0.35	16.55	2263	0.21
14-Hydroxy-9-epi-( <i>E</i> )-caryophyllene	13.38	1655	0.12	16.60	2269	0.10
1,7-diepi- $\alpha$ -Cedrenal?	13.49*	1665	0.32	15.16	2123	0.12
Khusiol	13.49*	1665	[0.32]	16.25	2233	0.09
Cedr-8-en-13-ol	13.58	1672	0.22	17.07	2318	0.11
$\alpha$ -Bisabolol	13.67	1680	0.32	15.51	2158	0.42
$\alpha$ -Cedrenol	13.71	1683	0.13	17.19	2331	0.11
Unknown [m/z 91, 105 (87), 123 (74), 135 (70), 107 (60), 79 (59)... 220 (13)]	13.82	1692	0.25			
Mayurone?	13.86*	1695	0.18	17.30	2343	0.03
Thujopsenal	13.86*	1695	[0.18]	15.93	2200	0.17
Unknown [m/z 105,	13.93	1701	0.06	17.58	2373	0.06

69 (77), 91 (66), 119 (65), 111 (56), 107 (45), 55 (45)... 220? (2)]						
Thujopsenal analog	14.25	1728	0.03	17.52*	2366	[0.24]
Unknown [m/z 105, 91 (83), 79 (78), 135 (67), 107 (56), 67 (53)... 220 (9)]	14.37	1739	0.03			
Cuparenal	14.42	1743	0.04			
Unknown [m/z 105, 69 (79), 111 (66), 119 (60), 91 (50), 55 (41)... 203 (11), 220 (1)]	14.52	1752	0.16			
Cedryl acetate	14.57	1756	0.05	14.74*	2082	[1.92]
Unknown [m/z 91, 105 (74), 93 (67), 79 (59), 133 (54), 41 (47), 107 (46)...]	14.60	1759	0.02	18.60	2485	0.01
Unknown [m/z 121, 136 (47), 119 (27), 91 (27), 105 (22), 41 (21)... 220 (4)]	14.74	1771	0.03	18.52	2476	0.05
β-Acoradienol?	14.81	1777	0.03	18.25	2446	0.03
Unknown [m/z 189, 91 (48), 133 (40), 105 (40), 41 (34), 187 (34)... 220 (5)]	14.89	1784	0.08	18.75	2501	0.08
Unknown [m/z 148, 141 (99), 91 (74), 105 (52), 41 (42), 121 (42), 133 (37)... 218 (32)]	14.94*	1788	0.07	19.93	2638	0.04
Unknown [m/z 120, 121 (93), 93 (85), 105 (74), 119 (68), 91 (58), 123 (49)... 220 (8)]	14.94*	1788	[0.07]	18.40	2462	0.04
Unknown [m/z 121, 136 (53), 91 (22), 93 (19), 79 (15), 105 (13)... 220 (3)]	14.96	1791	0.07	18.68	2494	0.08
Nootkatone analog	15.18	1809	0.01	18.07	2426	0.02
Manool	17.66	2042	0.07			
7,13-Abietadiene	17.86	2063	0.01	17.52*	2366	[0.24]
<b>Total identified</b>		<b>94.76%</b>			<b>90.26%</b>	
<b>Total reported</b>		<b>97.51%</b>			<b>92.37%</b>	

\*: Two or more compounds are coeluting on this column

[xx]: Duplicate percentage due to coelutions, not taken into account in the consolidated total

†: Peaks apexes were resolved, but peaks overlapped and were summed for analysis

tr: The compound has been detected below 0.005% of total signal.

Note: no correction factor was applied  
R.T.: Retention time (minutes)  
R.I.: Retention index