

Date : August 3, 2023

CERTIFICATE OF ANALYSIS – GC PROFILING

SAMPLE IDENTIFICATION

Internal code : 23E17-PTH01

Customer identification : Organic Turmeric CO2 Extract - TK0111R

Type : CO2 extract

Source : *Curcuma longa*

Customer : Plant Therapy

ANALYSIS

Method: Dilution of a known amount with an appropriate solvent, and addition of a methyl octanoate internal standard for quantitation. Application of a correction factor¹. Analysis with PC-MAT-004 - Terpenes and volatiles profiling by response factor (in French); identifications validated by GC-MS.

Analyst : Sylvain Mercier, M. Sc., Chimiste 2014-005

Analysis date : May 25, 2023

Checked and approved by :

Alexis St-Gelais, Ph. D., Chimiste 2013-174

Notes: This report may not be published, including online, without the written consent from Laboratoire PhytoChemia. This report is digitally signed, it is only considered valid if the digital signature is intact. The results only describe the samples that were submitted to the assays.

This report is an update from the first version issued on May 25, 2023, to update the customer identification.

REFERENCE

(1) Cachet, T.; Brevard, H.; Chaintreau, A.; Demyttenaere, J.; French, L.; Gassenmeier, K.; Joulain, D.; Koenig, T.; Leijts, H.; Liddle, P.; et al. IOFI Recommended Practice for the Use of Predicted Relative-Response Factors for the Rapid Quantification of Volatile Flavouring Compounds by GC-FID. *Flavour Fragr. J.* 2016, 31 (3), 191–194.

PHYSICOCHEMICAL DATA

Physical aspect: Bright yellow liquid

Refractive index: 1.5145 ± 0.0003 (20 °C; method PC-MAT-016)

CONCLUSION

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

ANALYSIS SUMMARY

Identification	(mg/g)	% m/m	Classe
2,3-Butanediol isomer II	0.11	0.01	Aliphatic alcohol
α -Thujene	0.04	tr	Monoterpene
α -Pinene	1.39	0.14	Monoterpene
Camphene	0.03	tr	Monoterpene
β -Pinene	0.14	0.01	Monoterpene
6-Methyl-5-hepten-2-one	0.12	0.01	Aliphatic ketone
Myrcene	0.41	0.04	Monoterpene
α -Phellandrene	7.57	0.76	Monoterpene
Δ^3 -Carene	0.24	0.02	Monoterpene
α -Terpinene	0.17	0.02	Monoterpene
para-Cymene	3.63	0.36	Monoterpene
Limonene	0.84	0.08	Monoterpene
1,8-Cineole	10.01	1.00	Monoterpenic ether
γ -Terpinene	0.30	0.03	Monoterpene
Terpinolene	0.78	0.08	Monoterpene
Linalool	2.23	0.22	Monoterpenic alcohol
Unknown	0.24	0.02	Oxygenated monoterpene
Camphor	0.24	0.02	Monoterpenic ketone
Borneol	0.04	tr	Monoterpenic alcohol
δ -Terpineol	0.03	tr	Monoterpenic alcohol
Terpinen-4-ol	0.21	0.02	Monoterpenic alcohol
4-Methylacetophenone	0.22	0.02	Simple phenolic
para-Cymen-8-ol	0.17	0.02	Monoterpenic alcohol
α -Terpineol	0.52	0.05	Monoterpenic alcohol
Unknown	5.74	0.57	Unknown
Unknown	0.29	0.03	Monoterpenic ester
Thymol	0.17	0.02	Monoterpenic alcohol
Carvacrol	0.15	0.02	Monoterpenic alcohol
para-Menth-5-en-1,2-diol isomer III	0.57	0.06	Monoterpenic alcohol
Eugenol	0.73	0.07	Phenylpropanoid
Unknown	0.63	0.06	Terpene derivative
Unknown	0.15	0.02	Terpene derivative
Unknown	0.95	0.10	Terpene derivative
Unknown	0.22	0.02	Terpene derivative
Unknown	0.54	0.05	Unknown
Unknown	0.44	0.04	Sesquiterpene
Acora-3,7(14)-diene	0.16	0.02	Sesquiterpene
Sesquithujene	1.13	0.11	Sesquiterpene
β -Caryophyllene	3.99	0.40	Sesquiterpene
(<i>trans</i> ?) -6-Hydroxy-para-menth-1-en-3-one	1.52	0.15	Monoterpenic alcohol
α -Santalene	1.13	0.11	Sesquiterpene
Caryophylla-4(12),8(13)-diene	0.52	0.05	Sesquiterpene
γ -Elemene	0.10	0.01	Sesquiterpene
<i>trans</i> - α -Bergamotene	0.45	0.05	Sesquiterpene
(<i>E</i>)-Vestitenone	0.18	0.02	Terpenic ketone
Unknown	1.79	0.18	Unknown
α -Humulene	2.25	0.23	Sesquiterpene

Unknown	1.11	0.11	Sesquiterpene
β -Acoradiene	1.11	0.11	Sesquiterpene
(<i>E</i>)- β -Farnesene	2.62	0.26	Sesquiterpene
γ -Curcumene	1.76	0.18	Sesquiterpene
ar-Curcumene	22.05	2.21	Sesquiterpene
Unknown	0.27	0.03	Sesquiterpene
α -Zingiberene	36.53	3.65	Sesquiterpene
Unknown	0.44	0.04	Sesquiterpene
β -Bisabolene	7.51	0.75	Sesquiterpene
β -Curcumene	0.31	0.03	Sesquiterpene
Unknown	1.67	0.17	Oxygenated sesquiterpene
Unknown	2.12	0.21	Oxygenated sesquiterpene
β -Sesquiphellandrene	42.91	4.29	Sesquiterpene
(<i>E</i>)- γ -Bisabolene	2.17	0.22	Sesquiterpene
Unknown	1.00	0.10	Sesquiterpene
Selina-4(15),7(11)-diene	1.68	0.17	Sesquiterpene
Selina-3,7(11)-diene	0.96	0.10	Sesquiterpene
Unknown	0.42	0.04	Sesquiterpene
Germacrene B	0.21	0.02	Sesquiterpene
<i>cis</i> -Sesquisabinene hydrate	0.83	0.08	Sesquiterpenic alcohol
Unknown	0.16	0.02	Oxygenated sesquiterpene
Unknown	0.89	0.09	Oxygenated sesquiterpene
Unknown	1.05	0.11	Unknown
(<i>E</i>)-Nerolidol	1.41	0.14	Sesquiterpenic alcohol
Caryophyllene oxide	0.81	0.08	Sesquiterpenic ether
Unknown	2.23	0.22	Oxygenated sesquiterpene
ar-Turmerol	6.00	0.60	Sesquiterpenic alcohol
<i>trans</i> -Sesquisabinene hydrate	0.20	0.02	Sesquiterpenic alcohol
Unknown	0.37	0.04	Oxygenated sesquiterpene
ar-Dihydroturmerone	4.17	0.42	Sesquiterpenic ketone
Unknown	15.24	1.52	Oxygenated sesquiterpene
Unknown	1.64	0.16	Oxygenated sesquiterpene
<i>cis</i> -Zingiberenol	5.67	0.57	Sesquiterpenic alcohol
Unknown	5.75	0.58	Oxygenated sesquiterpene
<i>trans</i> -Zingiberenol	4.64	0.46	Sesquiterpenic alcohol
Unknown	11.91	1.19	Oxygenated sesquiterpene
Unknown	4.94	0.49	Oxygenated sesquiterpene
Unknown	9.79	0.98	Oxygenated sesquiterpene
ar-Turmerone	197.94	19.79	Sesquiterpenic ketone
Unknown	3.11	0.31	Oxygenated sesquiterpene
α -Turmerone	241.23	24.12	Sesquiterpenic ketone
(<i>E</i>)- α -Santalal	1.43	0.14	Sesquiterpenic aldehyde
Unknown	1.77	0.18	Oxygenated sesquiterpene
Unknown	5.93	0.59	Oxygenated sesquiterpene
(<i>Z</i>)- γ -Atlantone	2.28	0.23	Sesquiterpenic ketone
Unknown	3.05	0.31	Oxygenated sesquiterpene
β -Turmerone	128.81	12.88	Sesquiterpenic ketone
(<i>E</i>)- γ -Atlantone	0.86	0.09	Sesquiterpenic ketone
(<i>Z</i>)- α -Atlantone	5.15	0.52	Sesquiterpenic ketone
Curcuphenol	1.61	0.16	Sesquiterpenic alcohol
(6 <i>S</i> ,7 <i>R</i>)-Bisabolone	11.01	1.10	Sesquiterpenic ketone
Unknown	1.08	0.11	Oxygenated sesquiterpene

Xanthorizzhol?	0.65	0.07	Sesquiterpenic alcohol
Unknown	4.98	0.50	Unknown
Unknown	3.49	0.35	Oxygenated sesquiterpene
Unknown	5.11	0.51	Oxygenated sesquiterpene
(E)- α -Atlantone	23.37	2.34	Sesquiterpenic ketone
Unknown	4.41	0.44	Oxygenated sesquiterpene
Unknown	0.49	0.05	Oxygenated sesquiterpene
Unknown	6.24	0.62	Oxygenated sesquiterpene
Unknown	0.92	0.09	Oxygenated sesquiterpene
Unknown	10.44	1.04	Unknown
Unknown	2.80	0.28	Oxygenated sesquiterpene
Unknown	1.53	0.15	Oxygenated sesquiterpene
Unknown	1.12	0.11	Oxygenated sesquiterpene
Unknown	0.99	0.10	Oxygenated sesquiterpene
Unknown	0.85	0.09	Oxygenated sesquiterpene
Unknown	0.55	0.06	Oxygenated sesquiterpene
Unknown	1.68	0.17	Oxygenated sesquiterpene
Unknown	8.51	0.85	Oxygenated sesquiterpene
Unknown	3.36	0.34	Unknown
Unknown	0.27	0.03	Oxygenated sesquiterpene
Unknown	1.07	0.11	Oxygenated sesquiterpene
Tumeronol B?	0.72	0.07	Sesquiterpenic alcohol
Unknown	4.36	0.44	Oxygenated sesquiterpene
Unknown	0.64	0.06	Oxygenated sesquiterpene
Palmitic acid	2.19	0.22	Aliphatic acid
Unknown	3.46	0.35	Oxygenated sesquiterpene
Unknown	0.85	0.09	Oxygenated sesquiterpene
Unknown	4.33	0.43	Oxygenated sesquiterpene
Stearic acid	0.34	0.03	Aliphatic acid
Consolidated total	963.03 mg/g	96.30%	

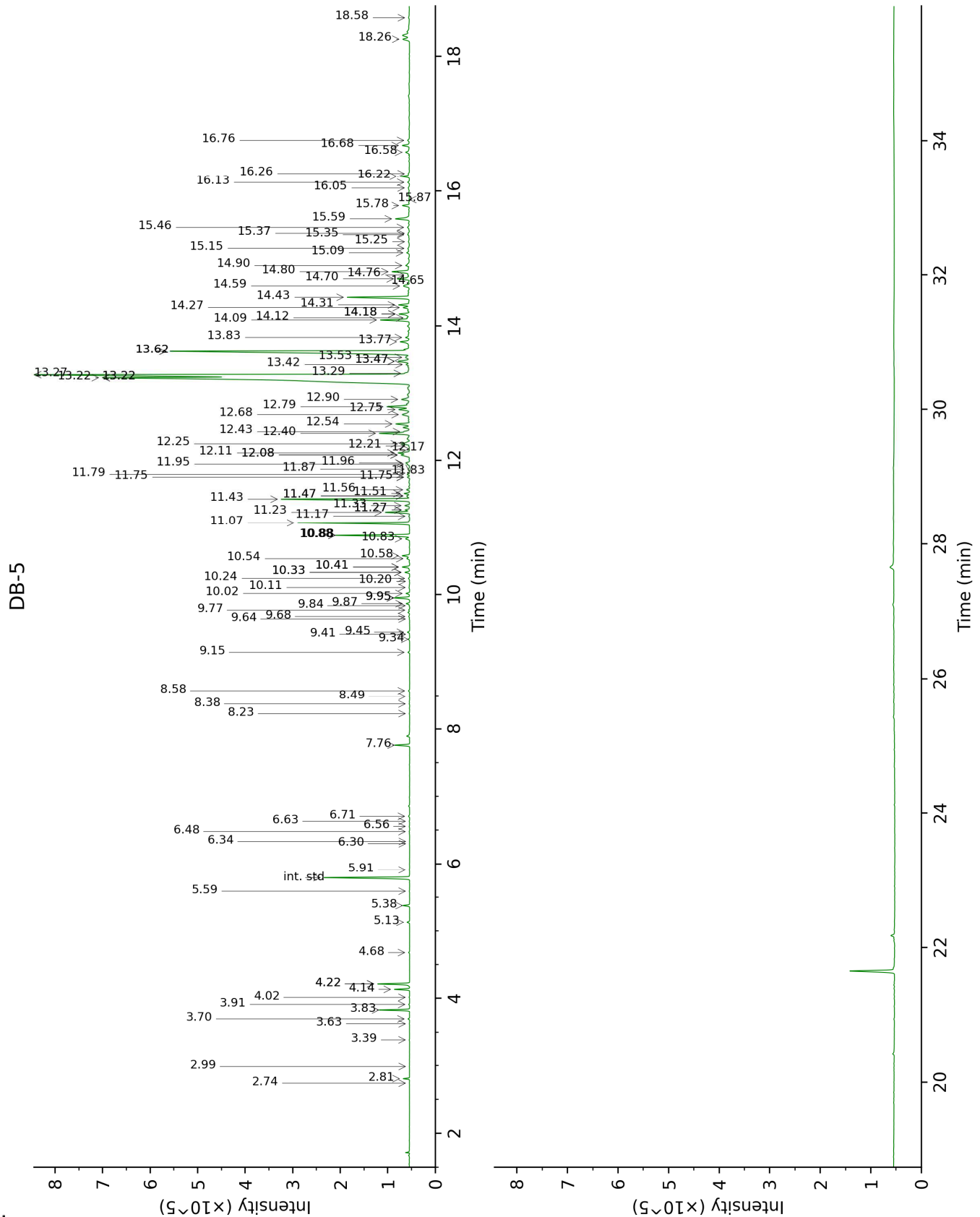
tr: The compound has been detected below tr5% of total signal.

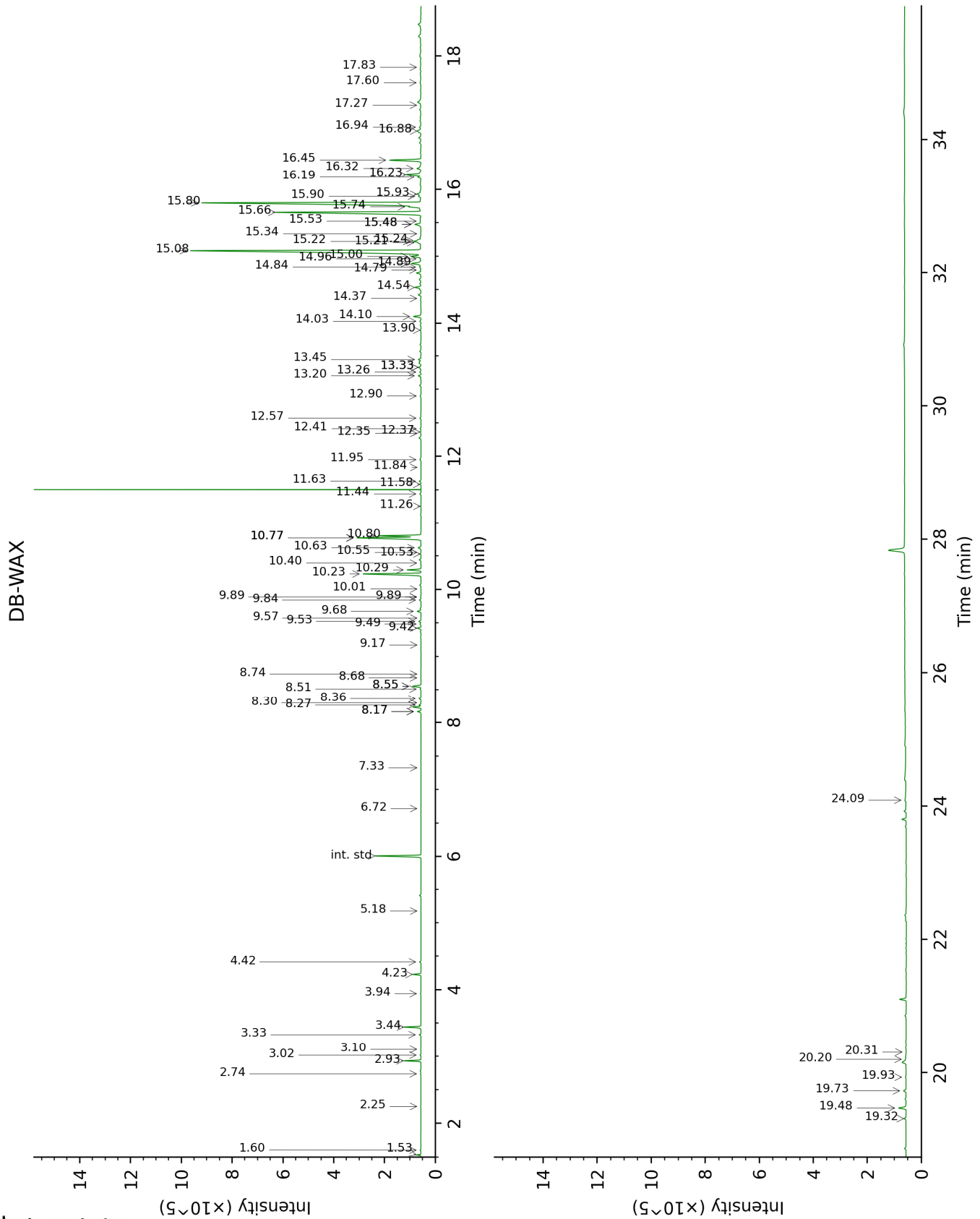
Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).

Unknown compounds are expressed in equivalents of internal standard without correction.

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.





FULL ANALYSIS DATA

Identification	Column DB-5			Column DB-WAX		
	R.T	R.I	mg/g	R.T	R.I	mg/g
2,3-Butanediol isomer II	1.33	809	0.11	8.17*	1516	3.99
α-Thujene	2.74	928	0.04	1.60	1010	0.29
α-Pinene	2.81	933	1.39	1.53	1003	1.44
Camphene	2.99	945	0.03			
β-Pinene	3.39	973	0.14	2.25	1072	0.15
6-Methyl-5-hepten-2-one	3.63	989	0.12	5.18	1300	0.09
Myrcene	3.70	994	0.41	3.02	1137	0.37
α-Phellandrene	3.83	1004	7.57	2.93	1130	7.72
Δ3-Carene	3.91	1009	0.24	2.74	1115	0.27
α-Terpinene	4.02	1016	0.17	3.10	1144	0.19
para-Cymene	4.14	1023	3.63	4.23	1230	3.80
Limonene	4.22*	1028	9.22	3.33	1161	0.84
1,8-Cineole	4.22*	1028	[10.48]	3.44	1170	10.01
γ-Terpinene	4.68	1058	0.30	3.94	1209	0.33
Terpinolene	5.13	1087	0.78	4.42	1244	0.75
Linalool	5.38	1102	2.23	8.17*	1516	[2.43]
Unknown [m/z 83, 55 (30), 135 (15), 109 (12), 150 (12)]	5.59	1116	0.24	6.72	1407	0.18
Camphor	5.91	1137	0.24	7.33	1453	0.16
Borneol	6.30	1163	0.04	9.89*†	1651	[1.52]
δ-Terpineol	6.34	1165	0.03	9.57	1626	0.30
Terpinen-4-ol	6.48	1174	0.21	8.68	1555	0.26
4-Methylacetophenone	6.56	1180	0.22	10.56	1706	0.18
para-Cymen-8-ol	6.64	1184	0.17	11.63	1797	1.09
α-Terpineol	6.71	1189	0.52	9.89*†	1651	[1.52]
Unknown [m/z 119, 91 (31), 117 (17), 120 (11), 150 (11)]	7.76	1260	5.74			
Unknown [m/z 93, 43 (60), 108 (58), 69 (36), 41 (35)... 150 (5), 184 (1)]	8.23	1292	0.29	13.26	1943	1.10
Thymol	8.38	1302	0.17	15.21	2129	1.62
Carvacrol	8.49	1307	0.15	15.52	2160	0.73
para-Menth-5-en-1,2-diol isomer III	8.58	1313	0.57	15.34	2142	0.53
Eugenol	9.15	1354	0.73	14.96	2104	0.82
Unknown [m/z 105, 91 (66), 120 (53), 93 (48), 77 (47), 71 (46), 43 (37), 145 (22)... 178 (2)]	9.34	1368	0.63	11.58	1793	0.50
Unknown [m/z 105, 120 (38), 145 (37),	9.41	1373	0.15			

121 (34), 93 (28), 91 (26)...						
Unknown [m/z 119, 161 (36), 43 (33), 176 (26), 91 (24), 105 (22)]	9.44	1375	0.95	12.57	1880	0.95
Unknown [m/z 43, 105 (50), 120 (40), 145 (36), 119 (33), 93 (30)... 176 (6)]	9.64	1389	0.22	11.84	1815	0.15
Unknown [m/z 71, 100 (92), 111 (79), 69 (46), 109 (45)...	9.68	1392	0.54	17.27	2342	0.71
Unknown [m/z 119, 93 (83), 91 (51), 77 (32), 41 (31)... 202 (16)]	9.77	1399	0.44	8.51	1542	0.80
Acora-3,7(14)-diene	9.84	1403	0.16	8.30	1526	0.23
Sesquithujene	9.87	1406	1.13	8.27	1523	0.98
β -Caryophyllene	9.95*	1412	5.11	8.56*	1546	5.27
(<i>trans</i> ?)-6-Hydroxy-para-menth-1-en-3-one	9.95*	1412	[6.93]	16.94	2306	1.52
α -Santalene	10.02	1417	1.13	8.36	1531	1.22
Caryophylla-4(12),8(13)-diene	10.11	1424	0.52	8.74	1560	0.19
γ -Elemene	10.20	1430	0.10	9.17	1594	0.12
<i>trans</i> - α -Bergamotene	10.24	1434	0.45	8.56*	1546	[5.27]
(<i>E</i>)-Vestitenone	10.33*	1440	1.73	12.34	1860	0.18
Unknown [m/z 91, 129 (98), 143 (94), 185 (81), 200 (76)...	10.33*	1440	[2.00]			
α -Humulene	10.41*	1446	2.43	9.42	1614	2.25
Unknown [m/z 69, 91 (78), 109 (54), 202 (43), 41 (36), 120 (34)]	10.41*	1446	[3.23]	9.49	1619	1.11
β -Acoradiene	10.54	1456	1.11	9.52	1622	1.34
(<i>E</i>)- β -Farnesene	10.58	1459	2.62	9.68	1634	2.29
γ -Curcumene	10.83	1478	1.76	9.84†	1648	1.31
α -Curcumene	10.88*	1482	21.70	10.80	1727	22.05
Unknown [m/z 95, 119 (77), 91 (72), 105 (64), 202 (63), 93 (61), 145 (57), 131 (56)]	10.88*	1482	[30.71]	10.01	1661	0.27
α -Zingiberene	11.07	1496	36.53	10.23	1679	37.19
Unknown [m/z 119, 91 (14), 120 (10), 117 (9)... 200? (2)]	11.17	1504	0.44	11.95	1825	1.32
β -Bisabolene	11.23	1508	7.51	10.29	1684	7.66
β -Curcumene	11.27*	1511	1.57	10.40	1692	0.31
Unknown [m/z 93, 91 (62), 119 (57), 105	11.27*	1511	[2.09]			

(44), 43 (43)... 220? (1)]						
Unknown [m/z 121, 93 (56), 91 (12), 94 (11), 122 (10)...220]	11.33	1516	2.12	13.45	1960	2.26
β-Sesquiphellandrene	11.42	1524	42.91	10.77*	1724	44.55
(E)-γ-Bisabolene	11.47*	1528	1.44	10.63	1712	2.17
Unknown [m/z 91, 79 (97), 119 (91), 105 (75), 159 (65), 93 (61)...202(14)]	11.47*	1528	[1.92]	11.44	1781	1.00
Selina-4(15),7(11)-diene	11.51	1530	1.68	10.77*	1724	[44.55]
Selina-3,7(11)-diene	11.56	1535	0.96	10.77*	1724	[44.55]
Unknown [m/z 91, 93 (82), 79 (79), 77 (68), 67 (55), 41 (49)... 202 (12)]	11.75*	1549	0.94	10.53	1704	0.42
Germacrene B	11.75*	1549	[0.71]	11.26	1765	0.21
cis-Sesquisabinene hydrate	11.79	1553	0.83	13.33*	1949	1.84
Unknown [m/z 138, 96 (100), 95 (85), 109 (74), 110 (60), 105 (57)... 220 (10)]	11.83	1556	0.16	12.37	1862	0.61
Unknown [m/z 96, 138 (97), 95 (70), 109 (69), 67 (49), 110 (49), 41 (43), 79 (42)... 220 (10)]	11.87	1559	0.89	12.41	1866	0.76
Unknown [m/z 109, 67 (30), 43 (24), 91 (19)...]	11.95	1565	1.05			
(E)-Nerolidol	11.96	1566	1.41	13.90	2001	0.58
Caryophyllene oxide	12.08*†	1575	9.04	12.90	1910	0.81
Unknown [m/z 105, 83 (65), 120 (41), 119 (35), 91 (29), 55 (22)... 218? (t)]	12.08*†	1575	[10.89]	13.20	1937	2.23
ar-Turmerol	12.11†	1578	[8.50]	15.48*	2156	5.45
trans-Sesquisabinene hydrate	12.17	1583	0.20	14.37	2047	0.21
Unknown [m/z 43, 91 (63), 41 (61), 79 (58), 95 (49), 93 (47)... 202 (36)...]	12.21	1586	0.37			
ar-Dihydroturmerone	12.25	1589	4.17	14.03	2014	0.85
Unknown [m/z 119, 132 (17), 91 (12), 120 (10), 117 (9)... 216? (2)]	12.40	1601	15.24	14.89	2097	11.02

Unknown [m/z 94, 79 (81), 91 (44), 43 (40), 125 (34), 77 (33), 93 (30)... 218 (11)]	12.43	1603	1.64	13.33*	1949	[2.25]
<i>cis</i> -Zingiberenol	12.54	1612	5.67	14.54	2063	4.49
Unknown [m/z 119, 85 (92), 105 (37), 120 (36), 91 (28)... 218 (6)]	12.68	1624	5.75	16.32	2242	5.31
<i>trans</i> -Zingiberenol	12.75	1630	4.64	15.22	2130	5.47
Unknown [m/z 120, 91 (29), 43 (25), 93 (23), 77 (21)... 218 (1)]	12.80	1633	11.91	14.10	2021	6.83
Unknown [m/z 83, 109 (45), 43 (43), 55 (36), 41 (35)... 220 (3)]	12.90	1642	4.94	15.93	2201	4.46
Unknown [m/z 105, 119 (63), 120 (45), 83 (44), 91 (16)...218 (9)]	13.22*†	1669	532.17	15.00	2108	9.79
ar-Turmerone	13.22*†	1669	[420.38]	15.80	2188	197.94
Unknown [m/z 95, 96 (40), 69 (26), 109 (24), 41 (23)...222 (6)]	13.22*†	1669	[532.17]	16.19	2228	3.11
α-Turmerone	13.27†	1673	[447.52]	15.08	2116	241.23
(<i>E</i>)-α-Santalal	13.29	1674	1.43	14.84	2092	1.19
Unknown [m/z 69, 41 (90), 123 (74), 122 (51)... 206 (14), 218 (2)]	13.42	1685	1.77	15.90	2198	2.58
Unknown [m/z 69, 41 (59), 118 (33), 43 (32), 55 (31)... 234? (t)]	13.47*	1689	7.03	16.88	2300	5.93
(<i>Z</i>)-γ-Atlantone	13.47*	1689	[5.91]	15.24	2132	2.28
Unknown [m/z 199, 132 (99), 59 (25), 91 (20), 117 (19), 43 (14)... 216? (6)]	13.53	1694	3.05	17.83	2403	0.87
β-Turmerone	13.62*	1702	129.66	15.66	2174	128.81
(<i>E</i>)-γ-Atlantone	13.62*	1702	[129.67]	15.48*	2156	[5.87]
(<i>Z</i>)-α-Atlantone	13.77	1715	5.15	15.74	2182	7.95
Curcuphenol	13.83	1720	1.61	19.32	2572	1.24
(6 <i>S</i> ,7 <i>R</i>)-Bisabolone	14.09	1743	11.01	16.23	2232	11.91
Unknown [m/z 120, 91 (22), 59 (20), 121 (19), 105 (15)... 218 (1)]	14.12	1746	1.08	14.80	2088	0.76
Xanthorizzhol?	14.18*	1751	4.53	19.94	2644	0.65
Unknown [m/z 83, 105 (81), 93 (74), 120 (71), 109 (65), 91 (58)...]	14.18*	1751	[5.81]			

Unknown [m/z 83, 55 (21), 43 (13), 41 (9), 91 (8)... 234? (1)]	14.27	1759	3.49	17.60	2378	2.32
Unknown [m/z 119, 83 (30), 91 (14), 120 (11), 114 (9)... 234 (1)]	14.31	1762	5.11			
(E)- α -Atlantone	14.43	1772	23.37	16.45	2255	23.66
Unknown [m/z 95, 136 (77), 83 (68), 125 (55), 109 (40), 110 (39)... 234 (7)]	14.59	1787	4.41	19.48	2590	7.21
Unknown [m/z 83, 120 (39), 121 (38), 119 (30), 123 (29), 55 (19)...218 (5)]	14.65	1792	0.49			
Unknown [m/z 83, 93 (61), 55 (24), 94 (24), 43 (22), 91 (19)... 234? (1)]	14.70	1796	6.24			
Unknown [m/z 69, 43 (95), 41 (84), 109 (78), 95 (54), 93 (49)... 177 (36), 220 (2)...]	14.76	1801	0.92	20.20	2676	0.76
Unknown [m/z 83, 121 (74), 114 (74), 93 (40), 55 (20), 91 (20)...]	14.80	1805	10.44			
Unknown [m/z 83, 119 (56), 95 (53), 234 (32), 91 (30)]	14.90	1814	2.80	19.73	2620	2.62
Unknown [m/z 83, 136 (51), 43 (46), 109 (29), 55 (26), 119 (22)...234 (1)]	15.08	1831	1.53			
Unknown [m/z 83, 136 (36), 55 (26), 109 (21), 79 (17), 43 (16)... 232 (11)]	15.15	1837	1.12			
Unknown [m/z 43, 83 (37), 109 (21), 55 (19), 111 (17)...]	15.25	1846	0.99			
Unknown [m/z 83, 107 (37), 43 (32), 135 (30), 55 (27)...]	15.35	1855	0.85			
Unknown [m/z 83, 123 (44), 55 (20), 98 (10)...]	15.37	1857	0.55	20.31	2689	0.17
Unknown [m/z 118, 83 (68), 55 (25), 117 (20), 43 (16)... 232 (1)]	15.46	1865	1.68			

Unknown [m/z 83, 43 (24), 55 (21), 109 (15), 135 (14)... 232 (1)]	15.59	1877	8.51			
Unknown [m/z 83, 137 (86), 110 (70), 109 (31), 95 (29)...]	15.78	1895	3.36			
Unknown [m/z 83, 43 (14), 55 (14), 92 (7), 91 (7)... 232 (1)]	15.87	1903	0.27			
Unknown [m/z 83, 55 (15), 43 (14), 91 (8)... 232 (1)]	16.05	1919	1.07			
Tumeronol B?	16.13	1928	0.72			
Unknown [m/z 83, 149 (24), 135 (24), 55 (24), 43 (13)... 232 (3)]	16.22	1936	4.36			
Unknown [m/z 83, 55 (18), 43 (14), 84 (6)... 232 (t)]	16.26	1940	0.64			
Palmitic acid	16.58	1971	2.19			
Unknown [m/z 83, 55 (22), 43 (22), 119 (19), 41 (10)...]	16.68	1980	3.46			
Unknown [m/z 83, 43 (22), 55 (20), 98 (14), 119 (14)...]	16.76	1988	0.85	24.09	3183	3.18
Unknown [m/z 83, 55 (18), 43 (16), 98 (11)...]	18.26	2137	4.33			
Stearic acid	18.58	2170	0.34			

*: 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 tr5% of total signal.

Individual compounds contents were corrected following the method of Cachet et al., 2016 (Flavour and Fragrance Journal guidelines).

Unknown compounds are expressed in equivalents of internal standard without correction.

R.T.: Retention time (minutes)

R.I.: Retention index