

**Table 2: Chemicals identified from the volatiles released by intact *Apis mellifera* and *Meliponula ferruginea* colonies.**

Peak No.	Retention time (min)	Compound Name	Honey Bee	Meliponine Bee
1	7.43	2,3-heptanediene	-	+
2	8.53	Isopentyl acetate <sup>‡</sup>	+	+
3	8.91	2- Heptanone <sup>‡</sup>	+	+
4	9.00	Nonane	+	-
5	9.09	2-Heptanol <sup>‡</sup>	+	+
6	9.60	3-methyl-2-butenyl acetate	+	+
7	9.76	$\alpha$ -pinene <sup>‡</sup>	+	-
8	10.08	Camphene	+	-
9	10.37	Benzaldehyde	-	+
10	10.38	Phenol	+	-
11	10.93	6-methyl-5-Hepten-2-one	+	+
12	11.00	Pentyl furan	-	+
13	11.16	Decane	-	+
14	11.23	Octanal <sup>‡</sup>	+	+
15	11.37	Isovaleric acid	-	+
16	11.43	Hexyl acetate <sup>‡</sup>	+	-
17	11.62	<i>o</i> -Cymene	-	+
18	11.70	Limonene <sup>‡</sup>	+	-
19	11.71	$\beta$ -Phellandrene	-	+
20	11.76	1,8- Cineole	+	-
21	11.82	Benzyl alcohol	+	-
22	11.88	Hexanoic acid <sup>‡</sup>	-	+
23	12.06	( <i>E</i> )- $\beta$ -Ocimene <sup>‡</sup>	+	+
24	12.45	Octanol <sup>‡</sup>	+	-
25	12.51	( <i>Z</i> )-Linalool oxide (furanoid) <sup>‡</sup>	+	-
26	12.77	( <i>E</i> )-Linalool oxide (furanoid) <sup>‡</sup>	+	-
27	12.79	Guaiacol	+	-
28	12.88	2-Nonanone <sup>‡</sup>	-	+
29	12.89	Methyl benzoate	+	-
30	12.95	Undecane	-	+
31	12.96	2-Nonanol <sup>‡</sup>	+	-
32	13.07	Nonanal <sup>‡</sup>	+	+
33	13.12	6-methyl-3,5-heptadien-2-one	-	+
34	13.19	Heptanoic acid <sup>‡</sup>	-	+
35	13.31	Phenyl ethyl alcohol <sup>‡</sup>	+	+

36	13.35	Methyl octanoate	+	-
37	14.02	Benzyl acetate	+	-
38	14.31	Terpinen-4-ol	-	+
39	14.36	Naphthalene	+	-
40	14.52	Methyl salicylate	+	-
41	14.54	Dodecane	-	+
42	14.63	Decanal <sup>‡</sup>	+	+
43	14.70	Octanoic acid <sup>‡</sup>	+	+
44	14.81	(2 <i>E</i> , 4 <i>E</i> )-Nonadienal	+	-
45	15.53	Ethyl acetophenone	+	-
46	15.72	Nonanoic acid <sup>‡</sup>	-	+
47	16.00	Tridecane <sup>‡</sup>	-	+
48	16.03	Carvacrol	+	-
49	16.29	(2 <i>E</i> , 4 <i>E</i> )-Decadienal	-	+
50	16.79	$\alpha$ -Cubebene	+	+
51	16.99	Nonalactone	-	+
52	17.08	$\alpha$ -ylangene	-	+
53	17.16	$\alpha$ -Copaene	+	+
54	17.24	Tetradecene	+	+
55	17.34	Tetradecane <sup>‡</sup>	+	-
56	17.32	$\beta$ - Bourbonene	-	+
57	17.61	( <i>Z</i> )- Caryophyllene	-	+
58	17.70	$\alpha$ -Bergamotene <cis>	-	+
59	17.78	( <i>E</i> )- $\beta$ -Caryophyllene <sup>‡</sup>	+	-
60	17.85	Allo-Aromadendrene	-	+
61	17.91	$\beta$ - Copaene	-	+
62	18.02	$\alpha$ - Sequiphellandrene	-	+
63	18.08	Geranyl acetone	-	+
64	18.18	Sesquisabinene	-	+
65	18.21	$\alpha$ - Humulene <sup>‡</sup>	+	+
66	18.34	9-epi-( <i>E</i> )-Caryophyllene	-	+
67	18.55	Germacrene D	+	-
68	18.56	$\beta$ -funbrene	-	+
69	18.61	Pentadecane	+	-
70	18.64	$\beta$ - Selinene	-	+
71	18.74	$\delta$ -Gurjunene	+	-
72	18.76	$\alpha$ -Muurolene	-	+
73	18.81	2,4-bis (1,1-dimethylethylphenol)	+	-
74	18.82	Methyl <i>p</i> -tert-butyl phenyl acetate	-	+
75	18.86	Butylated hydroxyl toluene	+	-
76	18.95	$\delta$ -Cadinene	+	+
77	19.04	$\delta$ -Amorphene	-	+
78	19.73	Pentadecanol	+	-
79	19.74	Hexadecene	-	+
80	19.86	Caryophyllene oxide	+	+

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<sup>‡</sup>Refers to compounds whose identities were confirmed with commercial synthetic standards

