

SERVICE DE SPECTROMETRIE DE MASSE DE L'ISIC (SSMI)

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ANALYSES GC-MS

Le 17 Juillet 2012

Objet: Analyse d'une huile essentielle par GC-MS
Nom: **Jasmin Sambac**
Lot: **JSA401J092673**
Destinataire : Entreprise Gedane (Lausanne, Suisse)
Composés majoritaires: **α -Farnesene ; Linalool ; Benzyl Acetate**

CONDITIONS EXPERIMENTALES

Type d'instrument : GC CP-3800 couplé au 1200L Triple quadrupole MS/MS (Varian)

Mode d'ionisation : Impact électronique (IE), 70 eV (mode positif)

Gamme de masse : m/z 50-300 en 0.5 sec

Colonne : FactorFour VF-5ms (5% phenyl-methyl 95% dimethyl polysiloxane, 0.25mm x 30 m)

Débit : 1 mL/min

Gradient : 50°C pendant 3 min; Montée à 150°C en 20 min; Montée à 250°C en 7 min

Calibrant : FC43

Echantillons : Huile essentielle diluée 1:500 dans l'éther. Injection de 1 μ L.

Figure 1 – Chromatogramme TIC-GC/MS d'huile essentielle de Jasmin Sambac (JSA401J092673) analysée sur colonne capillaire FactorFour VF-5ms (5% phenyl-methyl 95% dimethylpolysiloxane, 0.25mm x 30 m). Les numéros des pics sont reportés dans la Table 1.

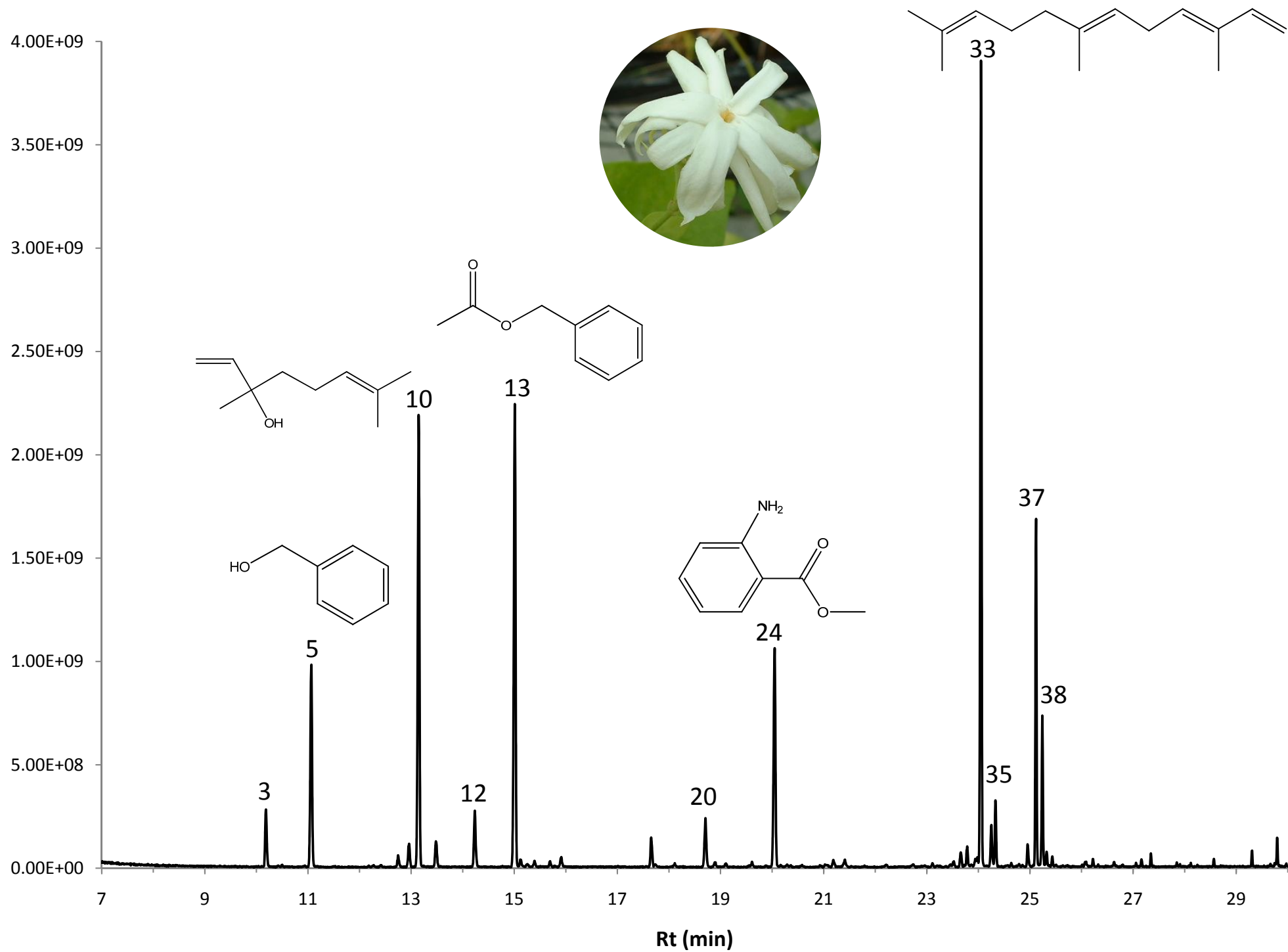


Table 1 – Composition de l'huile essentielle de Jasmin Sambac (JSA401J092673)

N°	Retention Time (min.)	Area	% of Total	Identification (NIST 08/MassFinder)	Prob (%)
1	5.74	8.32E+07	0.25	Cis 3-Hexenol	89
2	6.13	9.40E+07	0.29	Ethylbenzene	74
3	10.19	5.84E+08	1.78	(Z)-Hex-3-enyl Acetate	79
4	10.50	1.40E+07	0.04	(Z)-Hex-2-enyl Acetate	46
5	11.07	2.33E+09	7.07	Benzyl Alcohol	81
6	12.28	2.22E+07	0.07	Cis-Linalool Oxide	18
7	12.41	1.92E+07	0.06	Benzyl Formate	10
8	12.75	1.23E+08	0.37	Trans-Linalool Oxide	77
9	12.96	2.76E+08	0.84	Methyl Benzoate	53
10	13.15	5.01E+09	15.23	Linalool	75
11	13.48	3.07E+08	0.93	β -Phenylethanol	89
12	14.24	6.27E+08	1.90	Phenylacetone	73
13	15.01	5.34E+09	16.23	Benzyl Acetate	80
14	15.12	7.26E+07	0.22	Neroloxide / Pinocamphone	*
15	15.26	2.90E+07	0.09	Ethyl Benzoate	10
16	15.39	5.37E+07	0.16	Linalool Oxide	45
17	15.70	5.32E+07	0.16	Cis 3-Hexenyl iso-butyrate	34
18	15.91	1.05E+08	0.32	Methyl Salicylate	70
19	17.66	3.13E+08	0.95	β -Phenethyl Acetate	74
20	18.71	5.91E+08	1.80	Indole	87
21	18.89	5.13E+07	0.16	O-Methylbenzyl Acetate	12
22	19.11	4.03E+07	0.12	(E)-Cinnamyl Alcohol	55
23	19.61	4.35E+07	0.13	(S)-(-)-1,2,4-Butanetriol,4-acetate	77
24	20.05	2.65E+09	8.04	Methyl Anthranilate	80
25	20.29	2.18E+07	0.07	10-epi-Italicene	55
26	21.41	1.00E+08	0.31	Cis- β -Elemene	55
27	22.21	3.34E+07	0.10	β -Caryophyllene	10
28	23.11	4.00E+07	0.12	α -Humulene	50
29	23.53	6.04E+07	0.18	5-epi-Aristolochene / Cis- β -Guaiene	59/52
30	23.66	1.50E+08	0.46	Germacrene D	23
31	23.78	1.80E+08	0.55	Cis/Trans- α -Farnesene	55
32	23.94	1.53E+08	0.46	α -Muurolene	86
33	24.05	7.13E+09	21.68	α-Farnesene	66
34	24.25	3.95E+08	1.20	γ-Amorphene	67
35	24.33	5.75E+08	1.75	ω-Cadinene	74
36	24.96	2.19E+08	0.66	Nerolidol	23
37	25.12	2.70E+09	8.22	(Z)-3-Hexenyl Benzoate	79
38	25.24	1.18E+09	3.58	Germacrene D-4-ol	71
39	25.32	1.17E+08	0.36	E-2-Hexenyl Benzoate	10
40	25.43	8.01E+07	0.24	Methyl N-Acetylanthranilate	66
41	26.07	7.16E+07	0.22	τ -Cadinol	15
42	26.22	5.80E+07	0.18	α -Cadinol	32
43	27.16	4.83E+07	0.15	2-Octyl Benzoate	20
44	27.35	8.58E+07	0.26	Benzyl Benzoate	66
45	27.85	2.06E+07	0.06	Trans-Farnesol	15
46	28.12	2.04E+07	0.06	β -Phenylethyl Benzoate	15
47	28.57	5.05E+07	0.15	Methyl Hexadecanoate	26
48	29.31	1.06E+08	0.32	Geranyl Linalool	10
49	29.80	2.06E+08	0.63	Methyl Linoleate	28
50	31.18	2.71E+08	0.82	1-Docosene	10

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9	12.96	2.76E+08	0.84	Methyl Benzoate
10	13.15	5.01E+09	15.23	Linalool
11	13.48	3.07E+08	0.93	β -Phenylethanol
12	14.24	6.27E+08	1.90	Phenylacetone nitrile
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42	26.22	5.80E+07	0.18	α -Cadinol
43	27.16	4.83E+07	0.15	2-Octyl Benzoate
44	27.35	8.58E+07	0.26	Benzyl Benzoate
45	27.85	2.06E+07	0.06	Trans-Farnesol
46	28.12	2.04E+07	0.06	β -Phenylethyl Benzoate
47	28.57	5.05E+07	0.15	Methyl Hexadecanoate
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