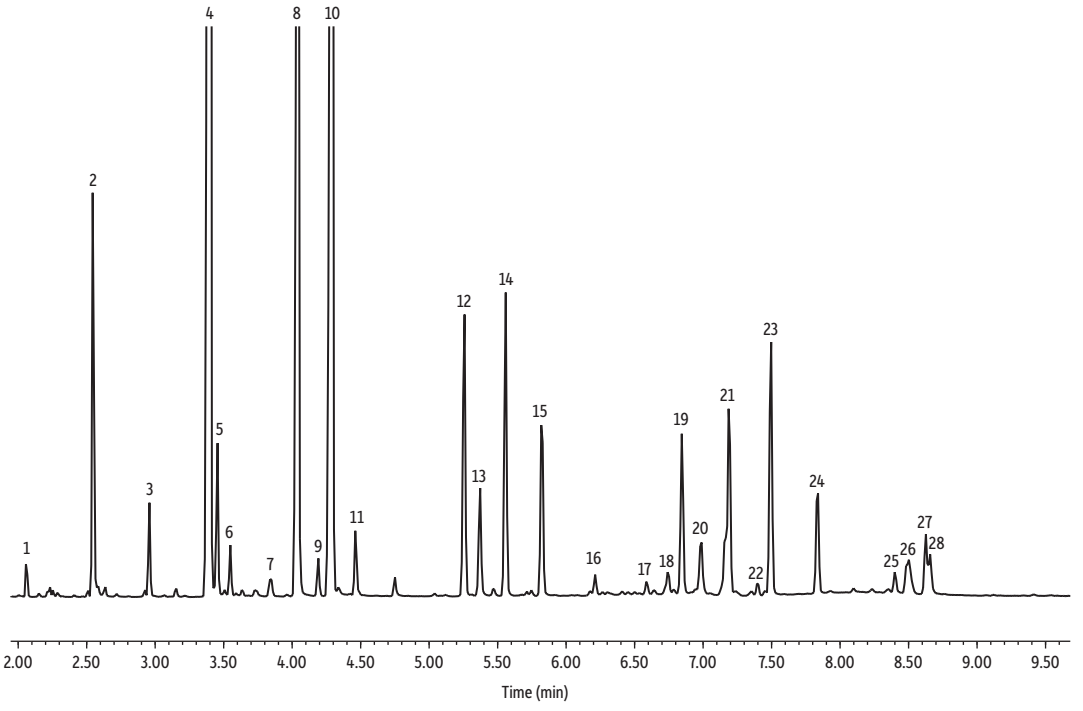
Citronella Oil on Rxi-5Sil MS



GC_FF1308

Peaks	t_R (min)	Peaks	t_R (min)
1. α-Pinene	2.059	15. β-Elemene	5.822
2. D-Limonene	2.545	16. Caryophyllene	6.212
3. Linalool	2.958	17. α-Caryophyllene	6.587
4. Citronellal	3.400	18. α-Amorphene	6.743
5. Isopulegol isomer 1	3.455	19. Germacrene D	6.845
6. Isopulegol isomer 2	3.549	20. α-Muurolene	6.985
7. α-Terpineol	3.844	21. δ-Cadinene	7.189
8. β-Citronellol	4.042	22. α-Cadinene	7.398
9. Z-Citral	4.191	23. Elemol	7.495
10. Geraniol	4.292	24. Germacrene D	7.835
11. E-Citral	4.462	25. γ-Eudesmol	8.400
12. Citronellyl propionate	5.257	26. α-Cadinol	8.501
13. Eugenol	5.371	27. α-Eudesmol	8.626
14. Geranyl acetate	5.558	28. β-Eudesmol	8.656

Column Rxi-5Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Sample Citronella oil
Diluent: Acetone
Conc.: 5%
Injection
Inj. Vol.: 1 µL split (split ratio 100:1)
Liner: Topaz 4.0 mm ID Precision inlet liner w/wool (cat.# 23305)
Inj. Temp.: 250 °C
Oven
Oven Temp.: 100 °C to 300 °C at 11 °C/min (hold 10 min)
Carrier Gas He, constant flow
Flow Rate: 1.31 mL/min
Detector MS
Mode: Scan
Scan Program:

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	1.00	35-500	5

Transfer Line Temp.: 300 °C
Analyzer Type: Quadrupole
Source Type: Inert
Source Temp.: 230 °C
Quad Temp.: 150 °C
Instrument Agilent 7890A GC & 5975C MSD
Notes All peaks were identified using the NIST MS EI spectra library (2005).