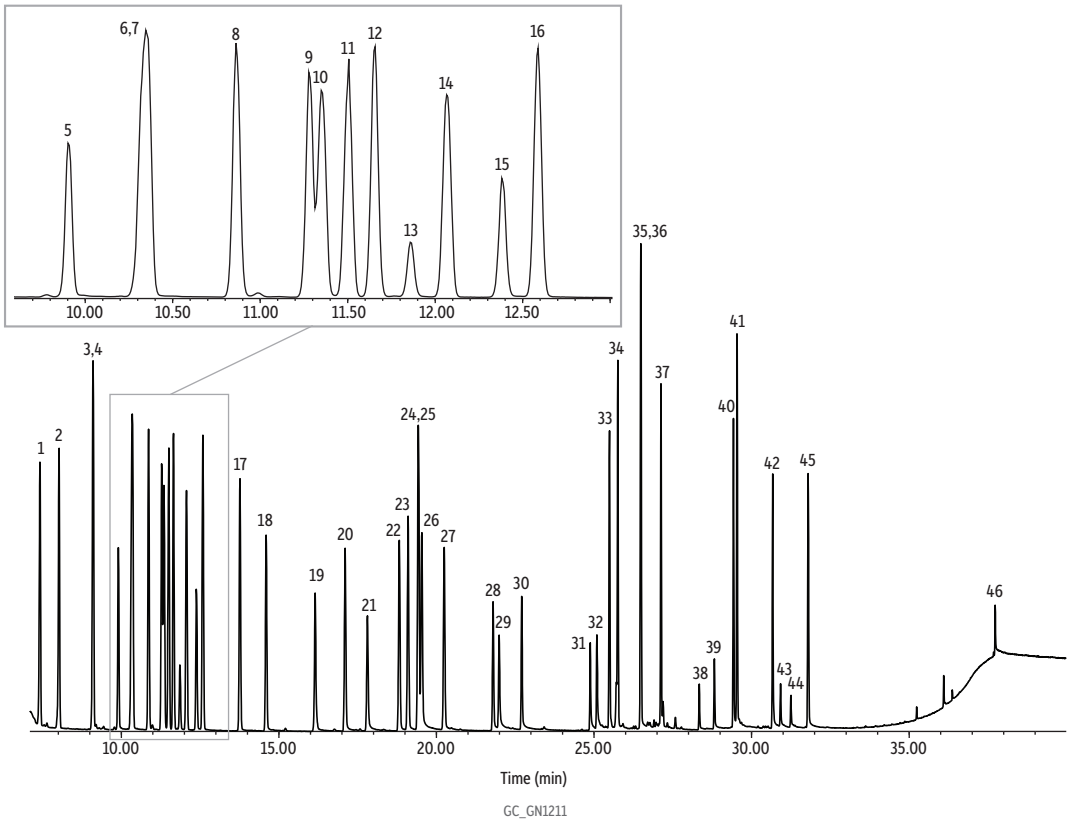
Terpenes MegaMix #1 on Rxi-1301Sil MS

- Increased number of terpenes.
- Improved separation of terpenes.



Column	Rxi-1301Sil MS, 30 m, 0.25 mm ID, 0.25 µm (cat.# 16094)
Sample	Terpenes MegaMix #1 (cat.# 34142)
Diluent:	Isopropanol
Conc.:	10 µg/mL
Injection	
Inj. Vol.:	1 µL split (split ratio 25:1)
Liner:	Topaz 4.0 mm ID Precision inlet liner w/ wool (cat.# 23305)
Inj. Temp.:	280 °C
Split Vent Flow Rate:	45 mL/min
Oven	
Oven Temp.:	40 °C (hold 0.5 min) to 100 °C at 3 °C/min to 200 °C at 8 °C/min to 300 °C at 25 °C/min (hold 3 min)
Carrier Gas	He, constant flow
Flow Rate:	1.8 mL/min
Detector	5977B
Scan Program:	

Group	Start Time (min)	Scan Range (amu)	Scan Rate (scans/sec)
1	6.5	35-350	2.3

Transfer Line Temp.:	300 °C
Analyzer Type:	Quadrupole
Source Type:	HES
Source Temp.:	325 °C
Quad Temp.:	200 °C
Electron Energy:	70 eV
Solvent Delay Time:	6.5 min
Tune Type:	BFB
Ionization Mode:	EI
Instrument	Agilent 7890B GC & 5977B MSD

	Peaks	tR (min)
1.	alpha-Pinene	7.39
2.	Camphene	8.00
3.	(-)-beta-Pinene	9.07
4.	Sabinene	9.07
5.	Beta-myrcene	9.89
6.	3-Carene	10.30
7.	R-(-)-alpha-Phellandrene	10.30
8.	alpha-Terpinene	10.84
9.	D-Limonene	11.26
10.	*m*-Isopropyltoluene	11.32
11.	*p*-Cymene	11.51
12.	Eucalyptol	11.64
13.	*cis*-beta-Ocimene	11.86
14.	*o*-Isopropyltoluene	12.03
15.	*trans*-beta-Ocimene	12.37
16.	gamma-Terpinene	12.56
17.	Terpinolene	13.74
18.	Sabinene hydrate	14.57
19.	Linalool	16.14
20.	(1R)-endo-(+)-Fenchyl alcohol	17.09
21.	(-)-Isopulegol	17.81
22.	Isoborneol	18.81
23.	Terpinen-4-ol	19.08
24.	(+)-Borneol	19.39
25.	L(-)-Borneol	19.39
26.	Menthol	19.52
27.	alpha-Terpineol	20.23
28.	Nerol	21.79
29.	Citronellol	21.99
30.	Geraniol	22.70
31.	Thymol	24.87
32.	Carvacrol	25.08
33.	(-)-alpha-Cedrene	25.47
34.	Beta-caryophyllene	25.75
35.	alpha-Humulene	26.46
36.	*trans*-beta-Farnesene	26.46
37.	Valencene	27.12
38.	*cis*-Nerolidol	28.34
39.	*trans*-Nerolidol	28.81
40.	(-)-Guaiol	29.41
41.	Cedrol	29.53
42.	(-)-alpha-Bisabolol	30.66
43.	Farnesol 1	30.92
44.	Farnesol 2	31.25
45.	Phytane (2,6,10,14-Tetramethylhexadecane)	31.78
46.	Squalene	37.73

All compounds at 10 µg/mL.