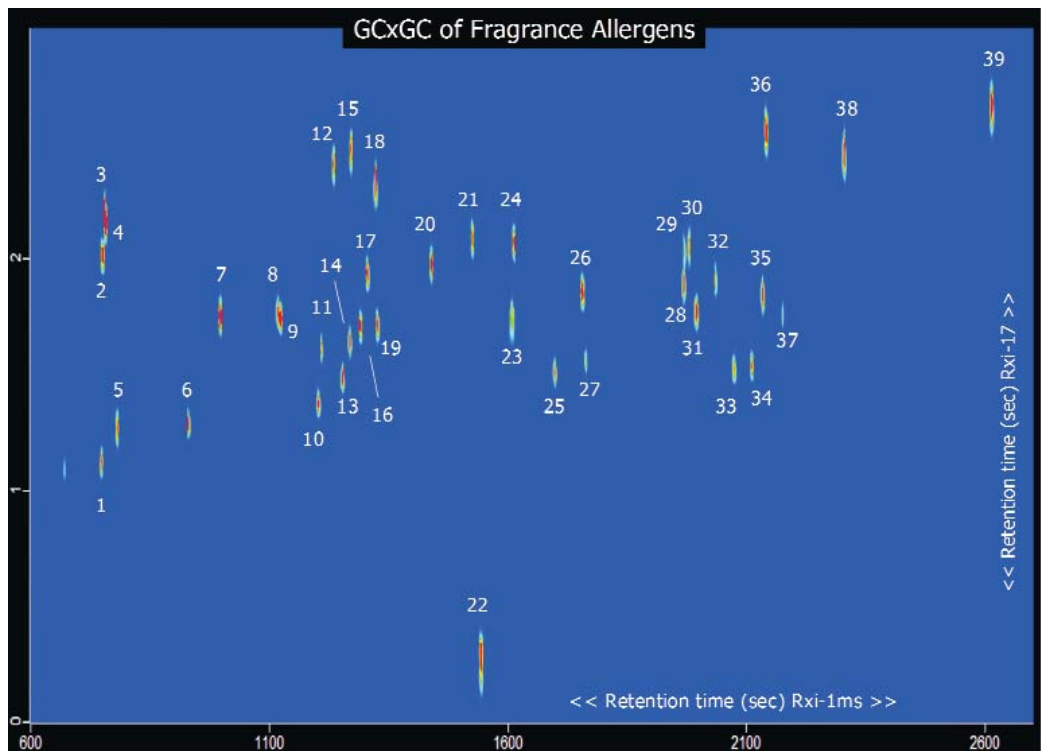
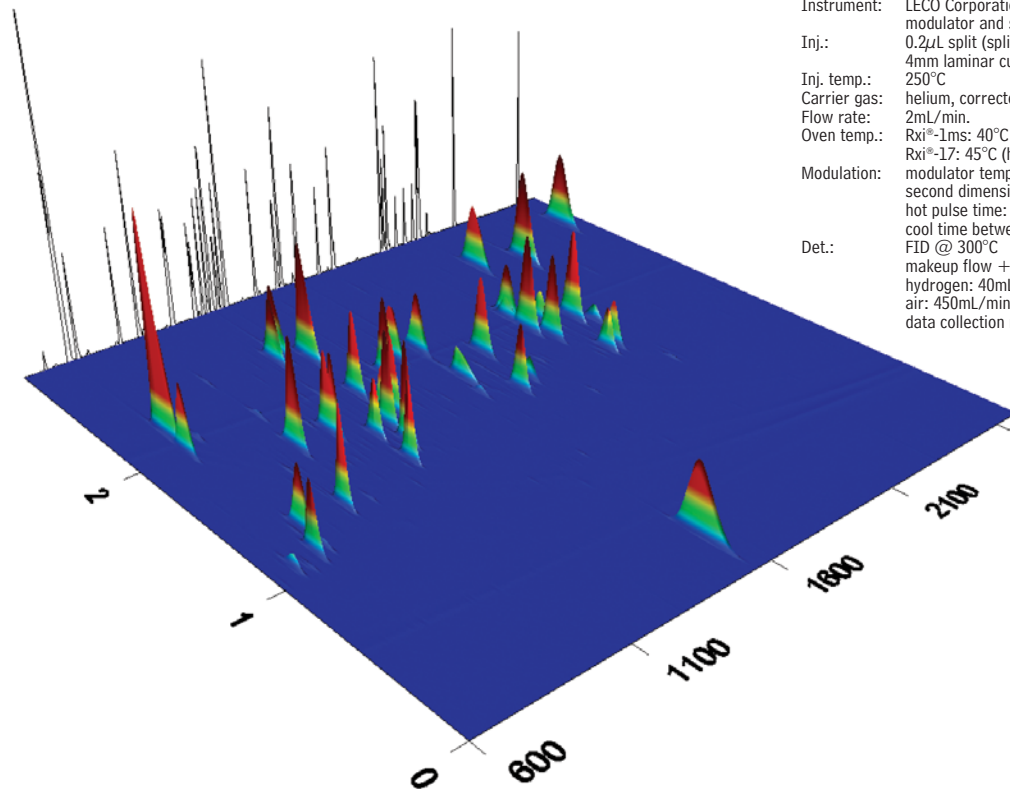


Fragrance Allergens on Rxi®-1ms & Rxi®-17 (GC x GC)



1. limonene
2. 1-fluoronaphthalene
3. benzyl alcohol
4. phenyl acetaldehyde
5. eucalyptol
6. linalool
7. camphor
8. methyl-2-octynoate
9. estragole
10. citronellol
11. citral 1
12. *trans*-cinnamaldehyde
13. geraniol
14. citral 2
15. anise alcohol
16. hydroxycitronellol
17. safrole
18. cinnamyl alcohol
19. methyl-2-nonynoate
20. eugenol
21. methyl eugenol
22. coumarin
23. hydroxycitronellol contaminant
24. isoeugenol
25. α -isomethyl ionone 1
26. lilial
27. α -isomethyl ionone 2
28. amyl cinnamal
29. lylal 1
30. lylal 2
31. amylcinnamyl alcohol 1
32. amylcinnamyl alcohol 2
33. farnesol 1
34. farnesol 2
35. hexyl cinnamal 1
36. benzyl benzoate
37. hexyl cinnamal 2
38. benzyl salicylate
39. benzyl cinnamate

GC_FF01010



GC_FF01011

Columns: Rxi®-1ms, 30m, 0.25mm ID, 0.25 μ m (cat.# 13323)
 Rxi®-17, 1m, 0.10mm ID, 0.10 μ m (10m, cat.# 13501)
 Sample: fragrance allergens in MTBE
 Instrument: LECO Corporation GCxGC/FID with quad-jet, dual-stage modulator and secondary oven
 Inj.: 0.2 μ L split (split ratio 1:200), 4mm laminar cup splitter (cat.# 20801)
 Inj. temp.: 250°C
 Carrier gas: helium, corrected constant flow via pressure ramps
 Flow rate: 2mL/min.
 Oven temp.: Rxi®-1ms: 40°C (hold 1 min.) to 240°C @ 4°C/min.
 Rxi®-17: 45°C (hold 1 min.) to 245°C @ 4°C/min.
 Modulation: modulator temperature offset: 20°C
 second dimension separation time: 3 sec.
 hot pulse time: 0.8 sec.
 cool time between stages: 0.7 sec.
 Det.: FID @ 300°C
 makeup flow + column flow: 50mL/min.
 hydrogen: 40mL/min.
 air: 450mL/min.
 data collection rate: 200 Hz