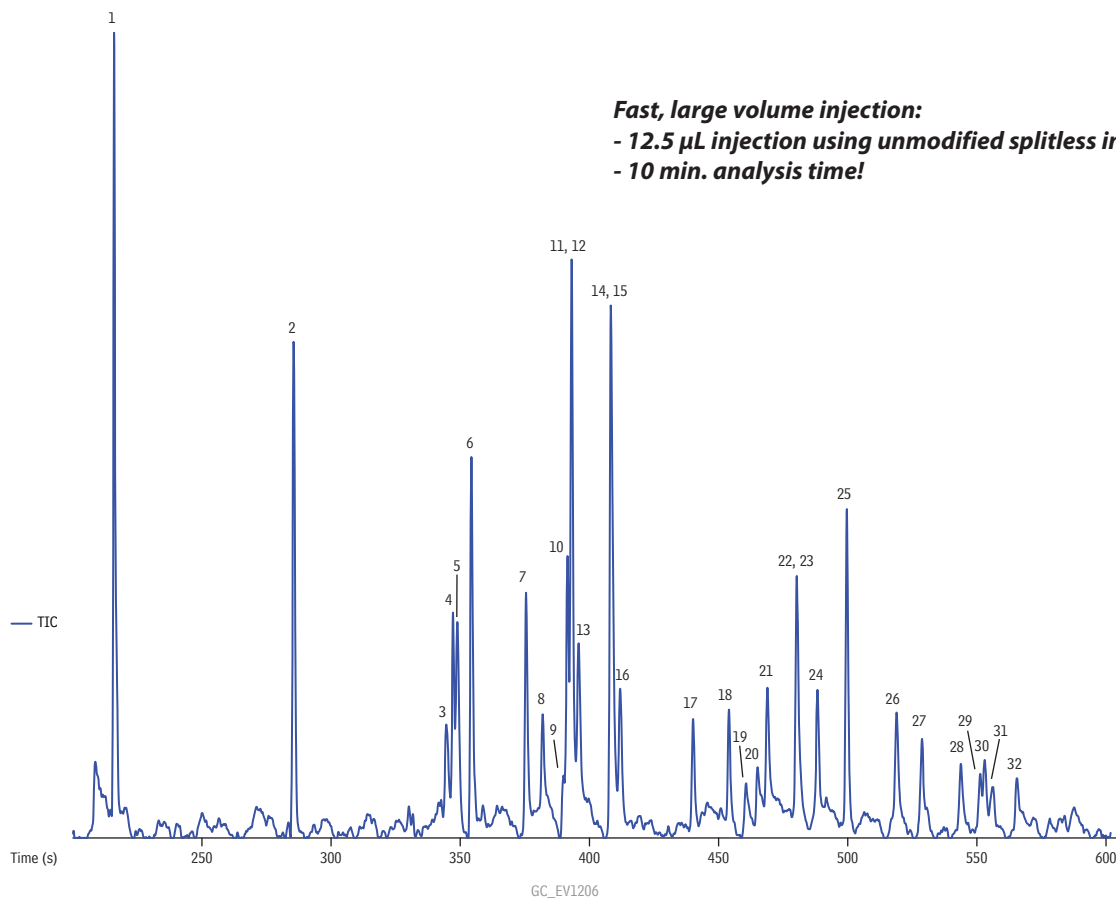


Pesticides and Brominated Flame Retardants by EPA Method 527 on Rxi®-5Sil MS



Fast, large volume injection:
 - 12.5 µL injection using unmodified splitless injector.
 - 10 min. analysis time!

- | | | |
|--------------------------------|-------------------------|-------------------|
| Peaks | 11. Thiobencarb | 22. Bifenthrin |
| 1. 1,3-Dimethyl-2-nitrobenzene | 12. Chlorpyrifos | 23. Chrysene-d12 |
| 2. Acenaphthene-d10 | 13. Parathion | 24. BDE-47 |
| 3. Dimethoate | 14. Terbufos sulfone | 25. Mirex |
| 4. Atrazine | 15. Oxychlorthane | 26. BDE-100 |
| 5. Propazine | 16. Esbiol | 27. BDE-99 |
| 6. Phenanthrene-d10 | 17. Nitrofen | 28. Perylene-d12 |
| 7. Vinclozoline | 18. Kepone | 29. Fenvalerate |
| 8. Prometryne | 19. Norflurazon | 30. BB-153 |
| 9. Bromacil | 20. Hexazinone | 31. Esfenvalerate |
| 10. Malathion | 21. Triphenyl phosphate | 32. BDE-153 |

Column Rxi®-5Sil MS, 15 m, 0.25 mm ID, 0.25 µm (cat.# 13620) using IP Deactivated Guard Column 5 m, 0.53 mm ID (cat.# 10045) with Universal Press-Tight Connectors (cat.# 20429)

Sample PBDE Mix (cat.# 33098)
 Pesticides Mix #1, Method 527 (cat.# 33007)
 Pesticides Mix #2, Method 527 (cat.# 33008)
 Internal Standard, Method 527 (cat.# 33010)
 Surrogate Standard, Method 527 (cat.# 33009)
 Ethyl acetate:methylene chloride (1:1)
 40 pg/µL (500 pg on-column)

Diluent:
 Conc.:
Injection
 Inj. Vol.: 12.5 µL splitless (hold 0.583 min.)
 Liner: Gooseneck Splitless (4mm) w/Semivolatiles Wool (cat.# 20799-231.5)
 Inj. Temp.: 250 °C
 Purge Flow: 40 mL/min.

Oven
 Oven Temp: 40 °C (hold 0.60 min.) to 320 °C at 30 °C/min. (hold 1.07 min.)

Carrier Gas
 He, constant flow

Flow Rate: 2 mL/min.

Detector
 MS

Mode:
 Transfer Line Temp.: 290 °C
 Analyzer Type: TOF
 Source Temp.: 225 °C
 Electron Energy: -70 eV
 Mass Defect: -20 mu/100 u
 Solvent Delay Time: 3.33 min.
 Acquisition Range: 45 - 750 amu
 Spectral Acquisition Rate: 10 spectra/sec

Instrument Notes
 LECO Pegasus 4D GCxGC-TOFMS
 Carrier Gas Flow: 2 mL/min. corrected constant flow via pressure ramps