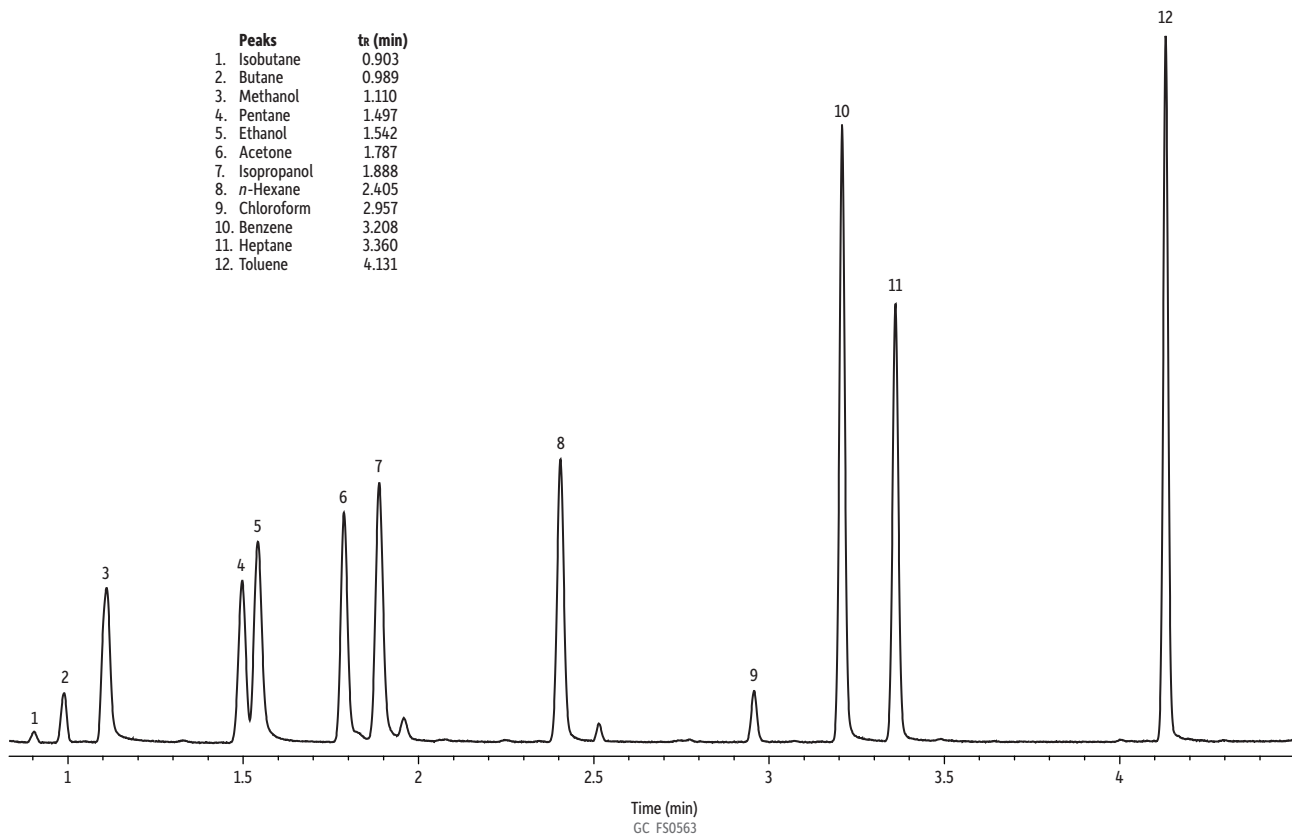


Residual Solvents in Cannabis Concentrates on Rxi-624Sil MS by Headspace-Full Evaporation Technique (HS-FET)

Peaks	tr (min)
1. Isobutane	0.903
2. Butane	0.989
3. Methanol	1.110
4. Pentane	1.497
5. Ethanol	1.542
6. Acetone	1.787
7. Isopropanol	1.888
8. n-Hexane	2.405
9. Chloroform	2.957
10. Benzene	3.208
11. Heptane	3.360
12. Toluene	4.131



Column Rxi-624Sil MS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 13868)
Sample Residual solvent mix
Diluent: Dimethyl sulfoxide (DMSO)
Conc.: 25 ppm (For the HS-FET technique, 10 µL of a 50 µg/mL standard was placed into a 20 mL headspace vial to represent a 25 ppm sample concentration, assuming a 20 mg sample weight.)
Injection headspace-loop split (split ratio 10:1)
Liner: Premium 1.0 mm ID straight inlet liner (cat.# 23333)
Headspace-Loop
Inj. Port Temp.: 250 °C
Instrument: Tekmar HT3
Inj. Time: 1.0 min
Transfer Line Temp.: 160 °C
Valve Oven Temp.: 160 °C
Needle Temp.: 140 °C
Sample Temp.: 140 °C
Platen temp
equil. time: 1.0 min
Sample Equil. Time: 30.0 min
Vial Pressure: 20 psi
Pressurize Time: 5.0 min
Loop Pressure: 15 psi
Loop Fill Time: 2.0 min
Oven
Oven Temp.: 35 °C (hold 1.5 min) to 300 °C at 30 °C/min (hold 2.0 min)
Carrier Gas He, constant flow
Linear Velocity: 80 cm/sec
Detector FID @ 320 °C
Make-up Gas
Flow Rate: 45 mL/min
Make-up Gas Type: N2
Hydrogen flow: 40 mL/min
Air flow: 450 mL/min
Data Rate: 20 Hz
Instrument Agilent/HP6890 GC
Notes For qualitative purposes only. The butane used for standard preparation was a mixture of butane and isobutane in an unknown ratio. The concentrations should be considered approximate, but do not exceed 50 ppm for any component.