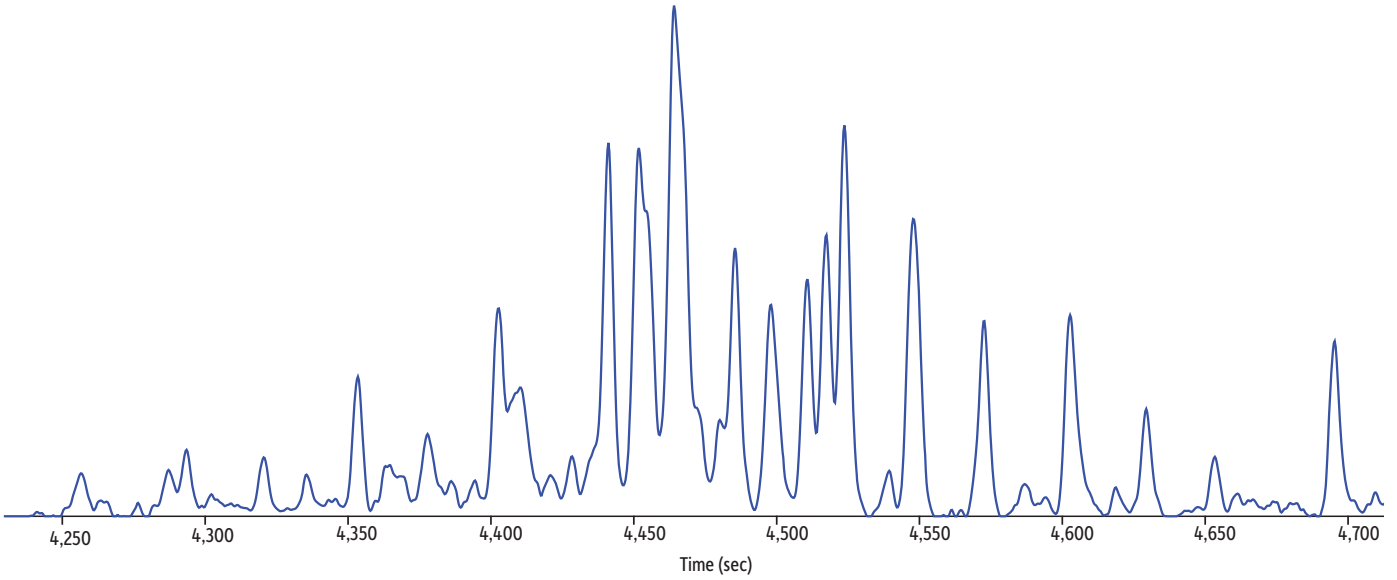
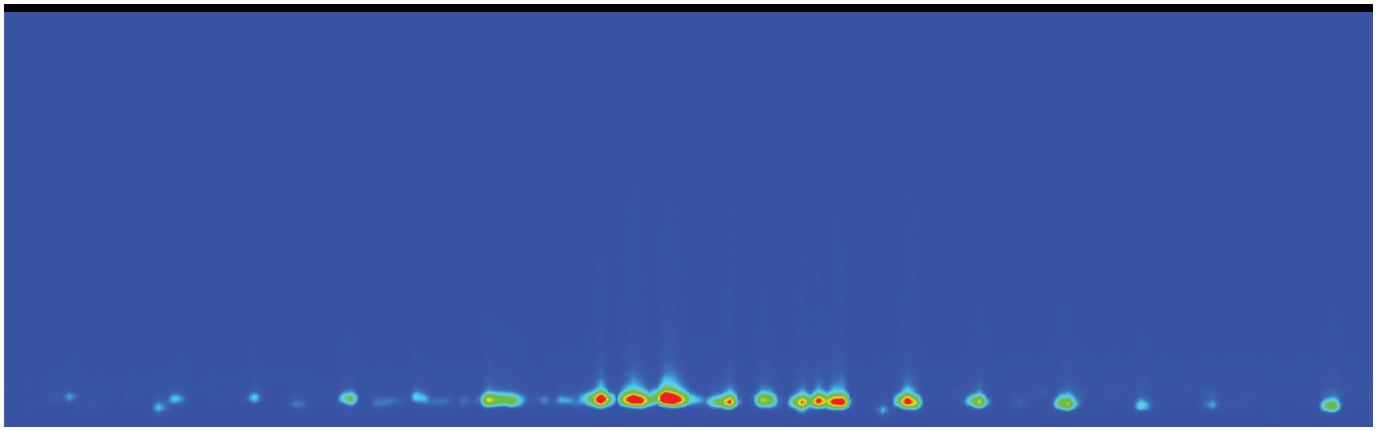
C3-Phenanthrenes on Rxi-17Sil MS and Rxi-1HT by 1D and 2D GC (m/z 220)





GC_PC1251

Column	Rxi-17Sil MS 60 m, 0.25 mm ID, 0.10 µm (cat.# custom) Rxi-1HT 1 m, 0.25 mm ID, 0.10 µm (cat.# 13950)
Sample	Riser pipe oil from Deepwater Horizon oil spill
Diluent:	Methylene chloride
Conc.:	10 mg/mL
Injection	
Inj. Vol.:	1.0 µL split (split ratio 10:1)
Liner:	Premium 4 mm Precision liner w/wool (cat.# 23305)
Inj. Temp.:	275 °C
Oven	
Oven Temp.:	Rxi-17Sil MS: 40 °C (hold 1 min) to 320 °C at 2.5 °C/min (hold 7 min) Rxi-1HT: 45 °C (hold 1 min) to 325 °C at 2.5 °C/min (hold 7 min)
Carrier Gas	He, corrected constant flow (1 mL/min)

Modulation	
Modulator Temp. Offset:	20 °C
Second Dimension Separation Time:	2.8 sec
Hot Pulse Time:	1.0 sec
Cool Time between Stages:	0.4 sec
Detector	MS
Mode:	
Transfer Line Temp.:	300 °C
Analyzer Type:	TOF
Source Temp.:	250 °C
Electron Energy:	-70 eV
Mass Defect:	100 mu/100 u
Ionization Mode:	EI
Acquisition Range:	45 to 550 amu
Spectral Acquisition Rate:	100 spectra/sec
Instrument	LECO Pegasus 4D GCxGC-TOFMS
Notes	1D chromatogram collected using same instrument conditions except: Second Dimension Separation Time: 0 sec Spectral Acquisition Rate: 3 spectra/sec

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