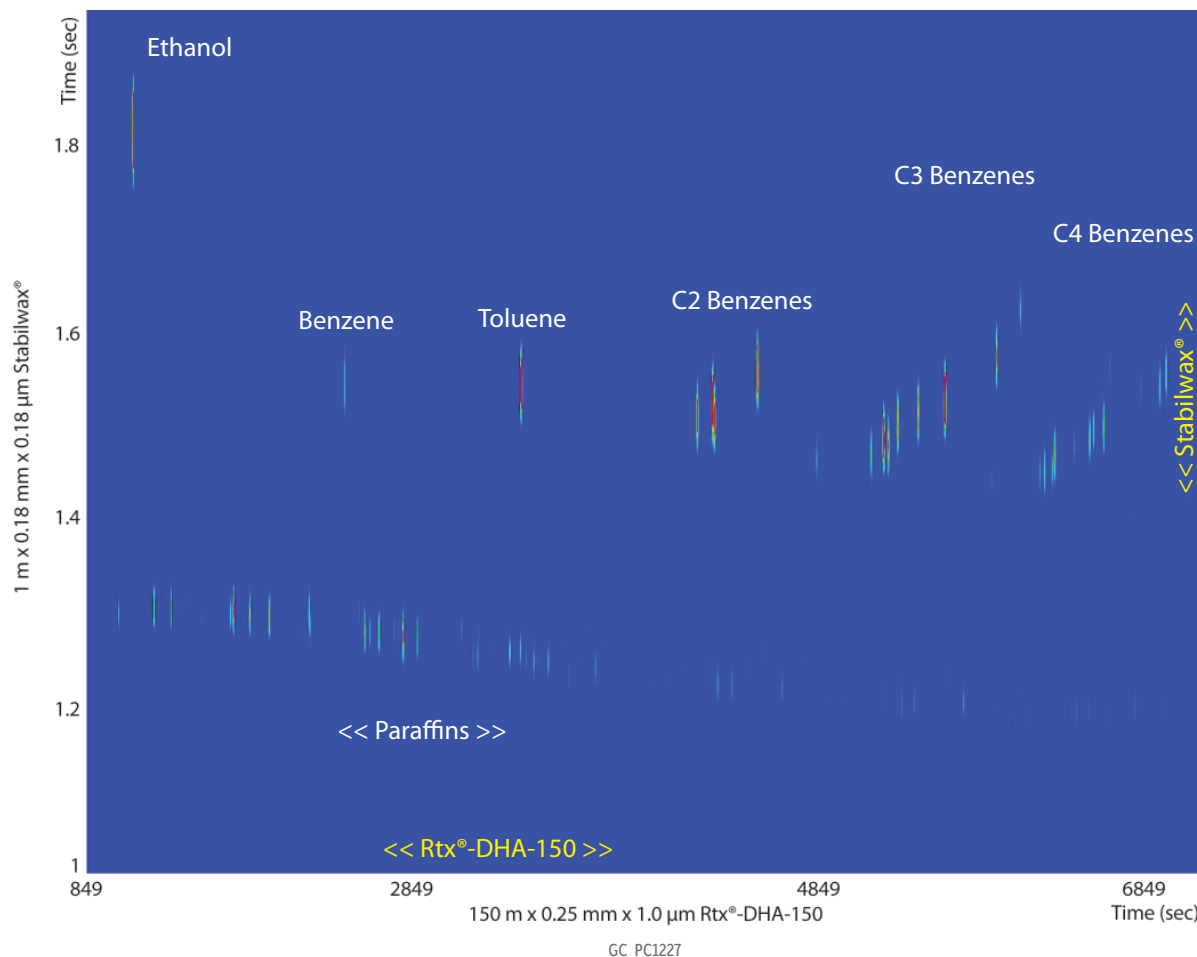


Separation of Ethanol and Aromatics from Paraffins in Gasoline with GCxGC on Rtx®-DHA-150 and Stabilwax®

Peaks	1st Dim RT (sec)	2nd Dim RT (sec)
1. Ethanol	1110	1.84
2. Benzene	2319	1.56
3. Toluene	3330	1.56



Column	Rtx®-DHA-150 150 m, 0.25 mm ID, 1.00 µm (cat.# 10149) Stabilwax® 1 m, 0.18 mm ID, 0.18 µm (cat.# 15118)	Detector	FID @ 270 °C
Sample	Gasoline	Constant Column	50 mL/min.
Conc.:	"Neat" (undiluted)	+ Constant Make-up:	N ₂
Injection		Make-up Gas Type:	
Inj. Vol.:	0.1 µL split (split ratio 200:1)	Data Rate:	200 Hz
Liner:	4 mm split Precision® liner w/semivolatiles wool (cat.# 21022-231.1)	Instrument	LECO GCxGC-FID
Inj. Temp.:	275 °C	Notes	The Stabilwax® column (cat.# 15118) is a 2 m column. A 1 m section was used as a second dimension column.
Oven			
Oven Temp:	Rtx®-DHA-150: 40 °C (hold 1 min.) to 245 °C at 1 °C/min. Stabilwax®: 45 °C (hold 1 min.) to 250 °C at 1 °C/min. He, corrected constant flow (1.8 mL/min.)		IP deactivated guard column (cat.# 10102) is a 1 m column. A 0.2 m section was used as a transfer line from the second dimension column to the detector.
Carrier Gas			
Modulation			
Modulator Temp. Offset:	20 °C		
Second Dimension			
Separation Time:	3 sec.		
Hot Pulse Time:	0.8 sec.		
Cool Time between			
Stages:	0.7 sec.		