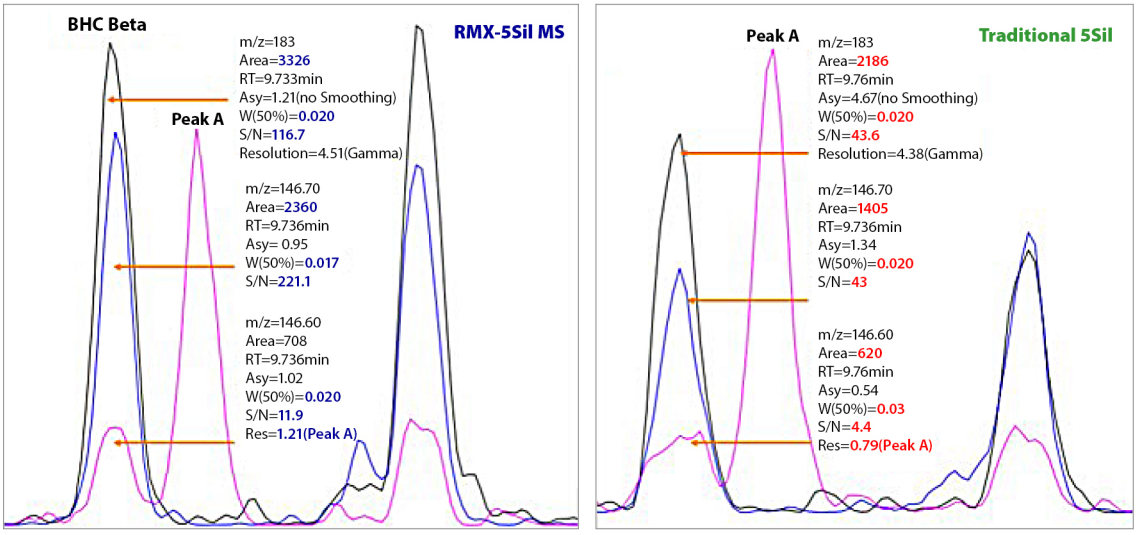
Now Foods Figure 4: Compared Traditional 5sil Columns to RMX-5Sil MS for Beta/Gamma BHCs in Lime Oil



GC_FS0621

Peaks	t_R (min)	Conc. (ng/mL)	Precursor	Product	Collision Energy
1. BHC, Beta	9.643	50	182.8	146.7	12
2. BHC, Beta	9.643	50	218.8	146.6	20
3. BHC, Beta	9.643	50	218.8	183	8
4. BHC, Gamma	9.782	50	182.8	146.7	12
5. BHC, Gamma	9.782	50	218.8	146.6	20
6. BHC, Gamma	9.782	50	218.8	183	8

Column	RMX-5Sil MS GC capillary column with 5 m Integra-Guard & Integra-Transfer Line, 30 m, 0.25 mm ID, 0.25 µm (cat.# 17323-124177)
Standard/Sample	Custom standards
Conc.:	50 pg on-column concentration
Injection	
Inj. Vol.:	1 µL splitless (hold 0.8 min)
Liner:	Topaz 4.0 mm ID single taper liner w/wool (cat.# 23447)
Inj. Temp.:	260 °C
Purge Flow:	60 mL/min
Oven	
Oven Temp.:	40 °C (hold 1.5 min) to 90 °C at 40 °C/min (hold 1.5 min) to 180 °C at 40 °C/min to 250 °C at 10 °C/min to 280 °C at 5 °C/min to 320 °C at 10 °C/min (hold 5 min)
Carrier Gas	He, constant flow
Flow Rate:	1.4 mL/min
Linear Velocity:	32 cm/sec @ 40 °C
Dead Time:	1.56 min @ 40 °C
Detector	Thermo Scientific TSQ 9610 Triple Quadrupole GC-MS
Transfer Line Temp.:	280 °C
Analyzer Type:	Quadrupole
Tune Type:	PFTBA
Ionization Mode:	EI
Instrument	Thermo Scientific Trace 1610 GC
Acknowledgement	NOW Foods