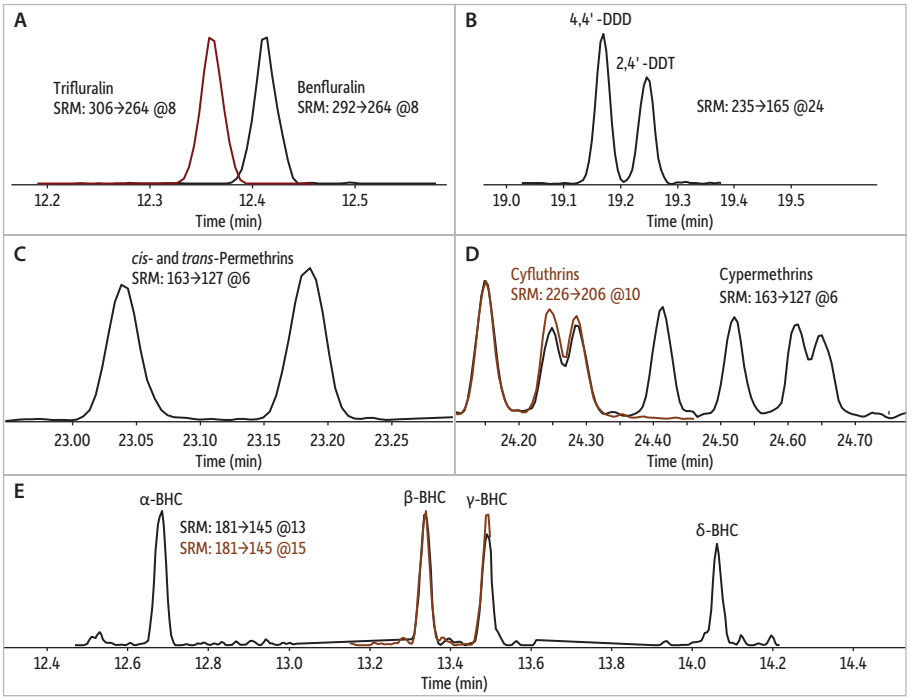
Selected Compounds from GC Multiresidue Pesticide Standards Kit on Rxi-5ms



GC_FS0610

Peaks	t_R (min)	Conc. (ng/g)	Precursor Ion	Product Ion	Collision Energy	Mix
1. Trifluralin	12.35	10	306	264	8	3
2. Benfluralin	12.43	10	292	264	8	3
3. α-BHC	12.70	10	181	145	13	2
4. β-BHC	13.33	10	181	145	15	2
5. γ-BHC	13.49	10	181	145	15	2
6. δ-BHC	14.05	10	181	145	13	2
7. DDD, p,p'-	19.17	10	235	165	24	2
8. DDT, o,p'-	19.25	10	235	165	24	2
9. Permethrin, *cis*-	23.04	10	183	168	10	6
10. Permethrin, *trans*-	23.19	10	183	153	14	6
11. Cyfluthrins	24.00-24.35	10	226	206	10	6
12. Cypermethrins	24.35-24.70	10	163	127	6	6

Column	Rxi-5ms, 30 m, 0.25 mm ID, 0.25 µm (cat.# 13423)
Standard/Sample	GC multiresidue pesticide standards kit (cat.# 32562)
Diluent:	Toluene
Injection	
Inj. Vol.:	1 µL splitless (hold 0.5 min)
Liner:	Topaz, single taper inlet liner w/wool, 4.0 mm x 6.5 x 78.5 (cat.# 23447)
Inj. Temp.:	250 °C
Oven	
Oven Temp.:	90 °C (hold 1 min) to 330 °C at 8.5 °C/min (hold 5 min)
Carrier Gas	He, constant flow
Flow Rate:	1.4 mL/min
Detector	TSQ8000
Transfer Line Temp.:	280 °C
Source Temp.:	325 °C
Solvent Delay Time:	5 min
Tune Type:	PFTBA
Ionization Mode:	EI
Instrument	Thermo Trace GC
Sample Preparation	Brown Rice Extract: 5 g of brown rice flour was mixed with 10 mL of water. After a 60 second vortex, the brown rice flour was fortified at 10 ng/g with all residues from the GC multiresidue pesticides kit (cat.# 32562). The fortified brown rice flour suspension was shaken for 30 minutes. Extraction was performed using 10 mL of acetonitrile and the original unbuffered Q-sep QuEChERS salts (cat.# 25848). After centrifugation, the supernatant was removed and further cleaned up with pre-filled Q-sep QuEChERS dSPE tubes containing 150 mg $MgSO_4$, 50 mg PSA, and 50 mg C18-EC (cat.# 26125). Orange Extract: 10 g of homogenized orange was fortified at 10 ng/g with all residues from the GC multiresidue pesticide kit (cat.# 32562), mixed with 10 mL acetonitrile and two steel ball bearings ($^1/_{16}$"), and shaken for 10 minutes. Q-sep QuEChERS extraction salts for EN 15662 (cat.# 25849) were added, and the sample was shaken for 1 minute. The sample was centrifuged for 5 minutes, and the supernatant was removed and further cleaned up with prefilled Q-sep QuEChERS dSPE tubes containing 150 mg $MgSO_4$, 50 mg PSA, and 50 mg C18-EC (cat.# 26125). The extracts were analyzed in a short-cap, screw-thread vial (cat.# 21143) and capped with a short-cap, screw-vial closure (cat.# 24495).