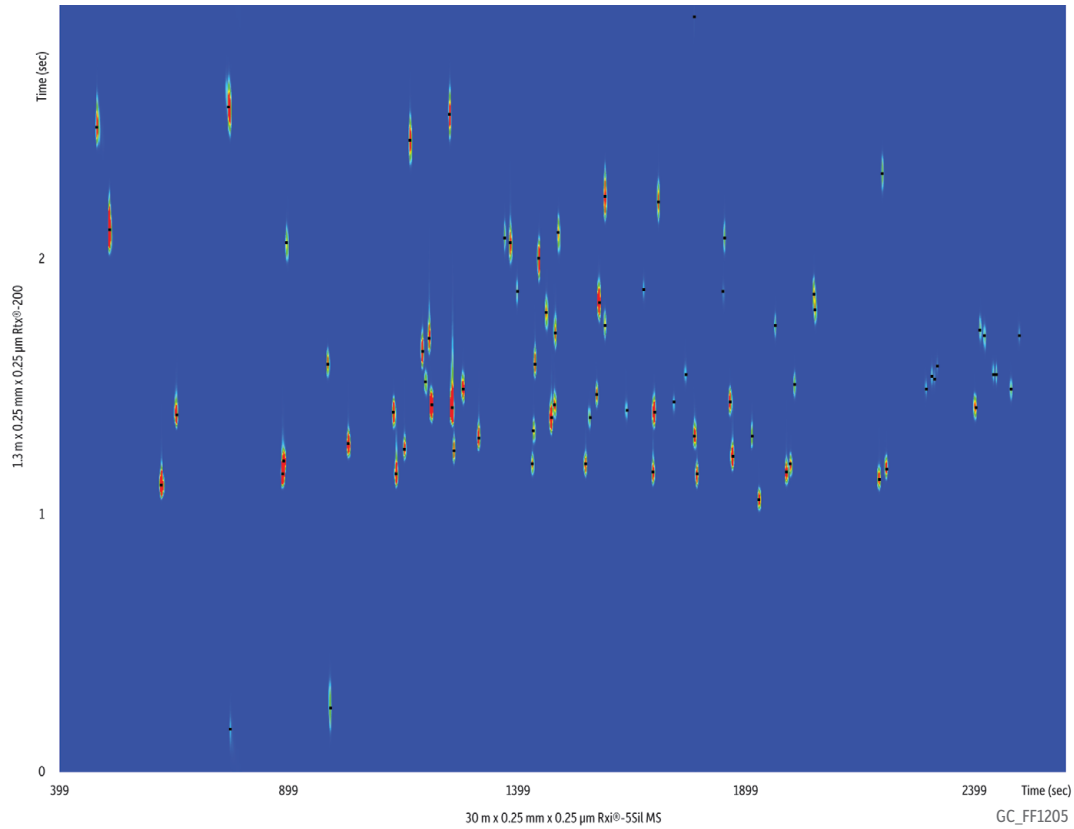


Marijuana Pesticides by GCxGC on Rxi®-5Sil MS and Rtx®-200



Peaks	t ₁ (sec)	t ₂ (sec)	Peaks	t ₁ (sec)	t ₂ (sec)	Peaks	t ₁ (sec)	t ₂ (sec)
1. Methamidophos	480	2.51	28. Metalaxyl	1398	1.87	55. Endosulfan sulfate	1851	2.08
2. Dichlorvos	507	2.11	29. Pentachlorothioanisole	1431	1.20	56. Fenhexamid	1863	1.44
3. 1,2,3,5-Tetrachlorobenzene	621	1.12	30. Pirimiphos methyl	1434	1.33	57. 4,4'-DDT	1869	1.23
4. Nicotine	654	1.39	31. Methiocarb	1437	1.59	58. Propargite	1911	1.31
5. Mevinphos	768	2.59	32. Dichlofluanid	1446	2.00	59. Piperonyl butoxide	1926	1.06
6. Acephate	771	0.17	33. Malathion	1461	1.79	60. Iprodione	1962	1.74
7. Pentachlorobenzene	885	1.16	34. Chlorpyrifos	1473	1.38	61. Bifenthrin	1986	1.17
8. o-Phenylphenol	888	1.21	35. Fenthion	1479	1.43	62. Dicofol	1995	1.20
9. Tebuthiuron	894	2.06	36. DCPA methyl ester (Chlorthal-dimethyl)	1482	1.71	63. Fenpropathrin	2004	1.51
10. Tetrachloronitrobenzene (Tecnazene)	984	1.59	37. Parathion	1488	2.10	64. Phosalone	2046	1.86
11. Omethoate	990	0.25	38. Cyprodinil	1548	1.20	65. Azinphos methyl	2049	1.80
12. 2,3,5,6-Tetrachloroaniline	1029	1.28	39. Heptachlor epoxide	1557	1.38	66. cis-Permethrin	2190	1.14
13. α-BHC	1128	1.40	40. Thiabendazole	1572	1.47	67. Coumaphos	2196	2.33
14. Hexachlorobenzene	1134	1.16	41. Captan	1578	1.83	68. trans-Permethrin	2205	1.18
15. Pentachloroanisole	1152	1.26	42. Folpet	1590	1.74	69. Cypermethrin 1	2292	1.49
16. Dimethoate	1164	2.46	43. Procymidone	1590	2.24	70. Cypermethrin 2	2304	1.54
17. β-BHC	1191	1.64	44. Endosulfan I	1638	1.41	71. Cypermethrin 3	2310	1.53
18. Pentachloronitrobenzene	1197	1.52	45. Imazail	1674	1.88	72. Cypermethrin 4	2316	1.58
19. Pentachlorobenzonitrile	1206	1.69	46. 4,4'-DDE	1695	1.17	73. Pyraclostrobin	2400	1.42
20. γ-BHC	1212	1.43	47. Dieldrin	1698	1.40	74. Fluvalinate 1	2409	1.72
21. Chlorothalonil	1251	2.56	48. Myclobutanil	1707	2.22	75. Fluvalinate 2	2418	1.70
22. Anthracene	1257	1.42	49. Endrin	1740	1.44	76. Difenoconazole 1	2439	1.55
23. Diazinon	1260	1.25	50. Endosulfan II	1767	1.55	77. Difenoconazole 2	2445	1.55
24. δ-BHC	1281	1.49	51. 4,4'-DDD	1785	1.31	78. Deltamethrin	2478	1.49
25. Pentachloroaniline	1314	1.30	52. Oxadixyl	1785	2.94	79. Azoxystrobin	2496	1.70
26. Vinclozolin	1371	2.08	53. 2,4'-DDT	1791	1.16			
27. Carbaryl	1383	2.06	54. Carfentrazone ethyl	1848	1.87			

Column Rxi®-5Sil MS 30 m, 0.25 mm ID, 0.25 µm (cat.# 13623)
Rtx®-200 1.3 m, 0.25 mm ID, 0.25 µm (cat.# 15020)

Sample Diluent: Toluene

Injection
Inj. Vol.: 1 µL splitless (hold 1 min)
Liner: Premium 4 mm single taper w/wool (cat.# 23303.1)
Inj. Temp.: 250 °C
Purge Flow: 40 mL/min

Oven
Oven Temp: Rxi®-5Sil MS: 80 °C (hold 1 min) to 310 °C at 5 °C/min
Rtx®-200: 85 °C (hold 1 min) to 315 °C at 5 °C/min
He, corrected constant flow (2 mL/min)

Carrier Gas Modulation
Modulator Temp. Offset: 20 °C
Second Dimension Separation Time: 3 sec

Hot Pulse Time: 0.9 sec
Cool Time between Stages: 0.6 sec
Detector TOFMS
Transfer Line Temp.: 290 °C
Analyzer Type: TOF
Source Temp.: 225 °C
Electron Energy: 70 eV
Mass Defect: -20 mu/100 u
Solvent Delay Time: 5 min
Tune Type: PFTBA
Ionization Mode: EI
Acquisition Range: 45-550 amu
Spectral Acquisition Rate: 100 spectra/sec
Instrument Notes LECO Pegasus 4D GCxGC-TOFMS
Rtx®-200 (cat.# 15020) is a 15 m column. A 1.3 m section was used as the second dimension column.