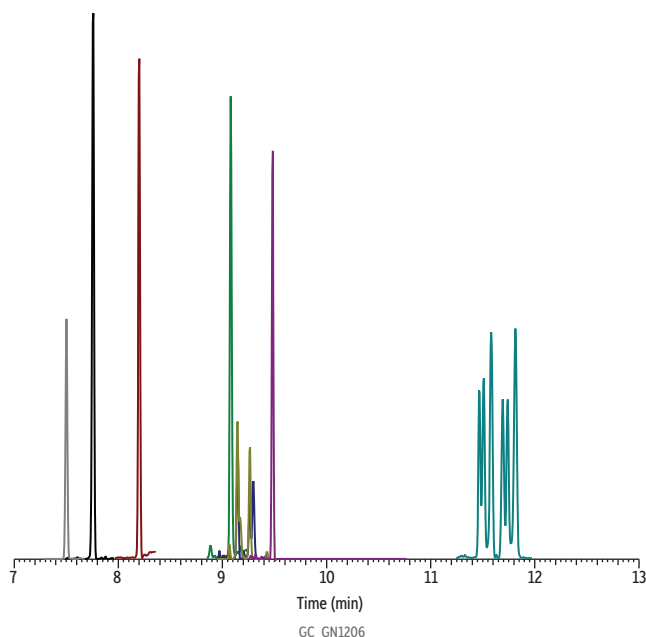


GC Amenable Pesticides Regulated by California in Brownies on Rxi-5ms

- GC amenable pesticides regulated by California (2019).
- Quantify pesticides in cannabis edibles at low ng/g concentrations.



Peaks	ta (min)	Polarity	Precursor Ion	Product Ion	Transition Type
1. Atrazine-d5	7.5	Positive	220.0	58.0	Quantifier
2. Atrazine-d5	7.5	Positive	205.0	127.0	Qualifier
3. Quintozene	7.8	Positive	294.9	236.9	Quantifier
4. Quintozene	7.8	Positive	236.8	118.9	Qualifier
5. Methyl parathion	8.2	Positive	263.0	109.0	Quantifier
6. Methyl parathion	8.2	Positive	263.0	79.0	Qualifier
7. Captan	9.1	Positive	184.0	149.1	Quantifier
8. Captan	9.1	Positive	184.0	134.1	Qualifier
9. trans-Chlordane	9.1	Positive	271.9	237.0	Quantifier
10. trans-Chlordane	9.1	Positive	372.9	265.9	Qualifier
11. cis-Chlordane	9.3	Positive	372.9	265.9	Quantifier
12. cis-Chlordane	9.3	Positive	271.9	237.0	Qualifier
13. Chlorfenapyr	9.5	Positive	247.1	227.1	Quantifier
14. Chlorfenapyr	9.5	Positive	59.1	31.1	Qualifier
15. Cyfluthrin	11.5	Positive	163.0	127.1	Quantifier
16. Cyfluthrin	11.5	Positive	199.1	170.1	Qualifier
17. Cypermethrin	11.7	Positive	163.0	127.1	Quantifier
18. Cypermethrin	11.7	Positive	181.1	152.1	Qualifier

Column Sample Rxi-5ms, 30 m, 0.25 mm ID, 0.25 μ m (cat.# 13423)
 California pesticide standard #1 (cat.# 34124)
 California pesticide standard #2 (cat.# 34125)
 California pesticide standard #3 (cat.# 34126)
 California pesticide standard #4 (cat.# 34127)
 California pesticide standard #5 (cat.# 34128)
 California pesticide standard #6 (cat.# 34129)
 Atrazine-d5 (cat.# 31984)

Diluent: Acetonitrile
Conc.: 5-7.5 ng/mL. Expected concentration range in extract after extracting from brownie fortified at 100 ng/g (final extract was diluted in half with acetonitrile).

Injection
Inj. Vol.: 1 μ L splitless
Liner: Topaz 4.0 mm ID single taper inlet liner w/wool (cat.# 23447)
Inj. Temp.: 250 °C
Purge Flow: 5 mL/min

Oven
Oven Temp.: 90 °C (hold 1 min) to 310 °C at 25 °C/min (hold 10 min)

Carrier Gas
Flow Rate: He, constant flow
 1.4 mL/min

Detector
Transfer Line
Temp.: 290 °C
Analyzer Type: Quadrupole
Source Temp.: 330 °C
Electron Energy: 70 eV
Tune Type: PFTBA
Ionization Mode: EI

Instrument
Notes
 Thermo Scientific TSQ 8000 Triple Quadrupole GC-MS