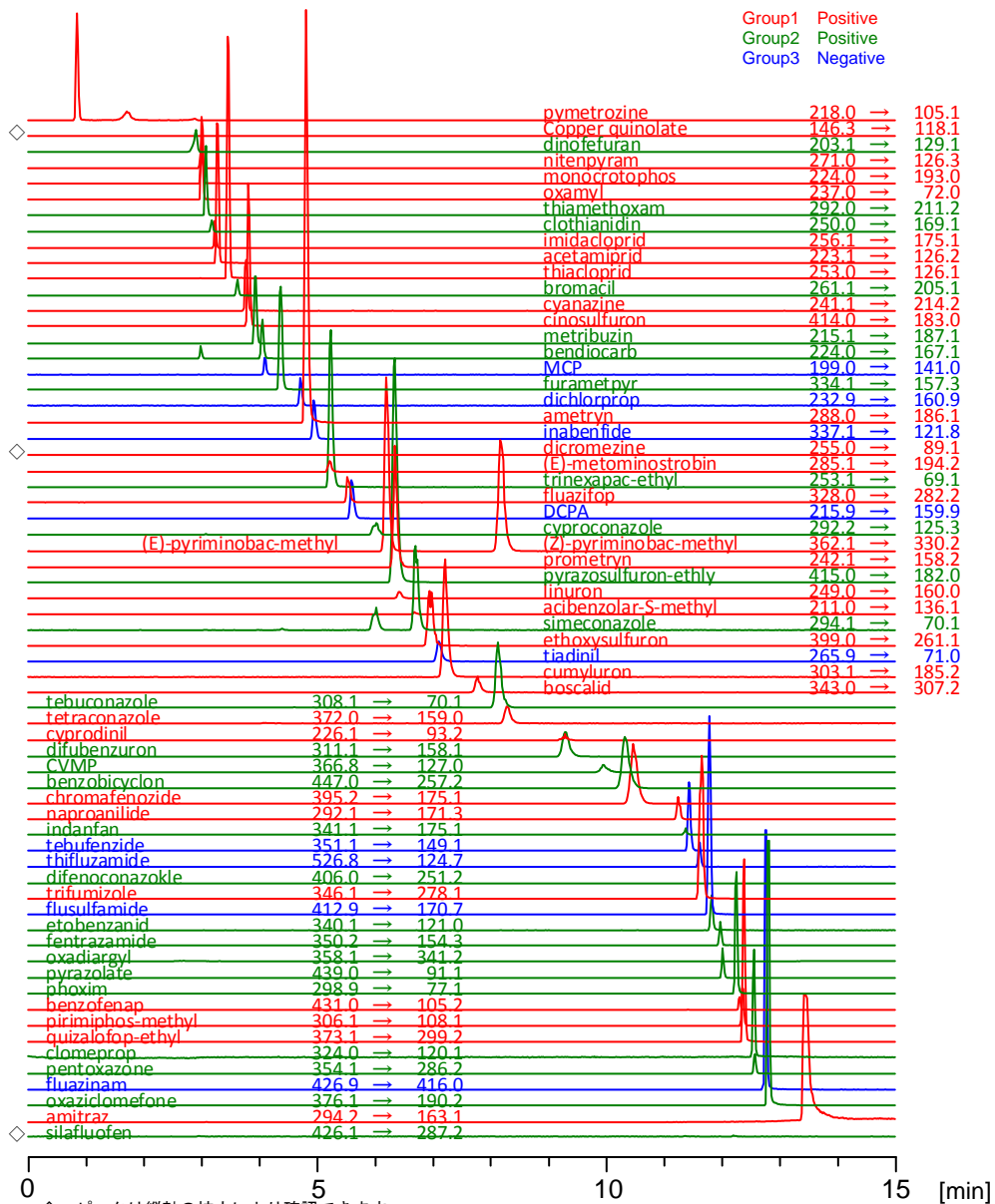


環境試料, 農作物において検査が必要とされる農薬は増え続けており, 複数の農薬を一斉に且つ短時間で分析する手法が求められています. CAPCELL CORE C₁₈ S2.7 (2.1 mm i.d. x 100 mm) を用いた一斉分析例を示します. 66成分を 15分間で分析することが可能でした.

The number of controlled pesticides in environmental samples and agricultural products keeps on growing, and a quick method for their simultaneous analysis is demanded. The following results were obtained with CAPCELL CORE C₁₈ S2.7 (2.1 mm i.d. x 100 mm) , where 66 pesticides were analyzed within fifteen minutes.



- ◇ ピークは縦軸の拡大により確認できます.
- ◇ Peaks can be recognized by changing the vertical scale.

【HPLC Conditions】

Column	: CAPCELL CORE C ₁₈ S2.7 ; 2.1 mm i.d. x 100 mm
Mobile phase	: A) 5 mmol/L CH ₃ COONH ₄ , 0.1 % HCOOH B) 5 mmol/L CH ₃ COONH ₄ , CH ₃ CN B 5 % (0 min) → 5 % (1 min) → 40 % (1.5 min) → 40 % (9 min) → 95 % (12 min) → 95 % (14 min) → 5 % (14.1 min) Gradient
Flow rate	: 300 μL/min
Temperature	: 35 °C
Detection	: MS/MS (SRM : Selected Reaction Monitoring)
Ionization	: ESI Positive, Negative
Inj. vol.	: 3 μL
Sample dissolved in	: 63-Standard mixture (20 μg/mL each, in CH ₃ CN, Wako Industries, Ltd , Osaka Japan) was diluted to 80 ng/mL. The solution also included separately added copper quinolate, fluaxinam, and amitraz, so that their concentrations were 240, 80, and 80 ng/mL, respectively. ※ 1 μg/mL = 1 ppm