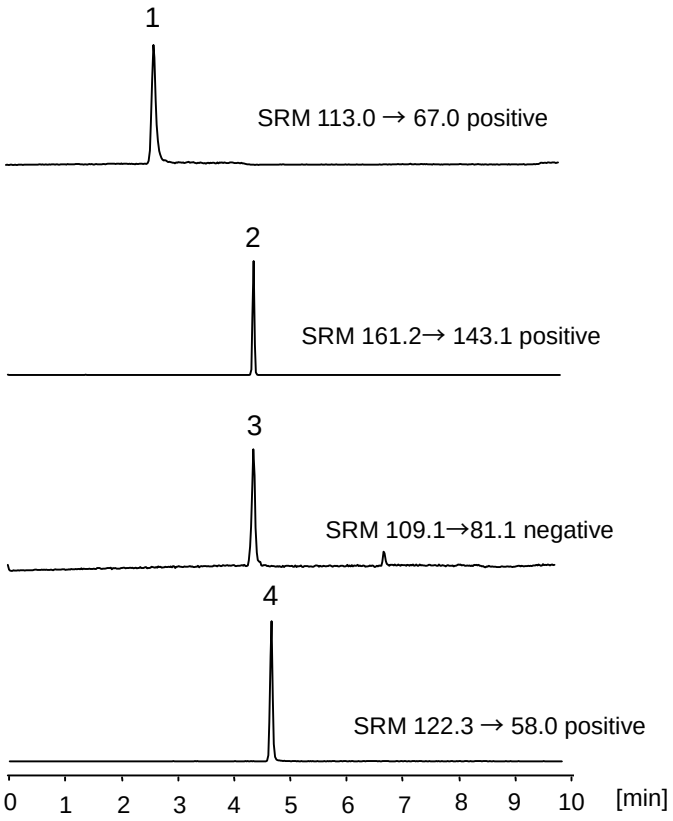
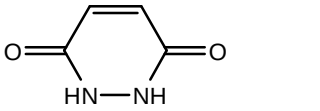
## 農薬 Pesticides

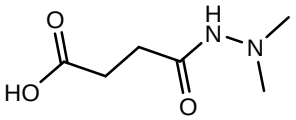
逆相系カラムでは保持が困難な農薬４種類の親水性相互作用クロマトグラフィー（HILIC）用カラム，PC HILIC S5（2.0 mm i.d. x 150 mm）を用いた LC-MS 分析例を示します．

Four pesticides hard to retain with reversed phase were analyzed with LC-MS using PC HILIC S5 (2.0 mm i.d. x 150 mm), or a column for hydrophilic interaction chromatography (HILIC).

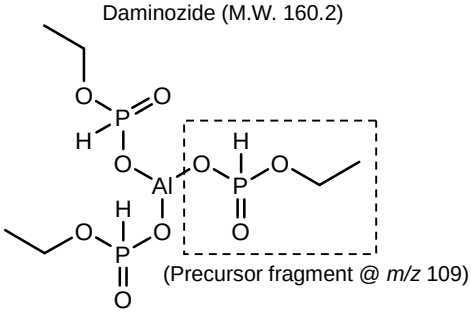


1. マレイン酸ヒドラジド (250 ng/mL)
Maleic hydrazide (M.W. 112.1)

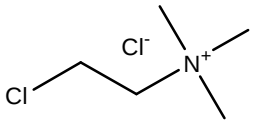


2. ダミノジド (60 ng/mL)
Daminozide (M.W. 160.2)



(Precursor fragment @ *m/z* 109)

3. ホセチルアルミニウム (60 ng/mL)
Fosetyl-aluminum (M.W. 354.1)



4. クロメクワット 塩酸塩 (12 ng/mL)
Chlormequat chloride (M.W. 158.1)

【HPLC Conditions】

| | |
|---|---|
| Column | : PC HILIC S5 ; 2.0 mm i.d. x 150 mm |
| Mobile phase | : A) 10 mmol/L $CH_3COONH_4$, 0.025 vol% HCOOH, B) $CH_3CN$<br>B 90 % (0 min) → 90 % (2 min) → 30 % (3 min)<br>→ 30 % (6 min) → 90 % (6.1 min) Gradient |
| Flow rate | : 300 μL/min |
| Temperature | : 35 °C |
| Detection | : MS/MS (SRM) |
| Ionization | : ESI positive, negative |
| Inj. vol. | : 2 μL |
| Sample dissolved in | : 90 % $CH_3CN$ |

※ 1 μg/mL = 1 ppm