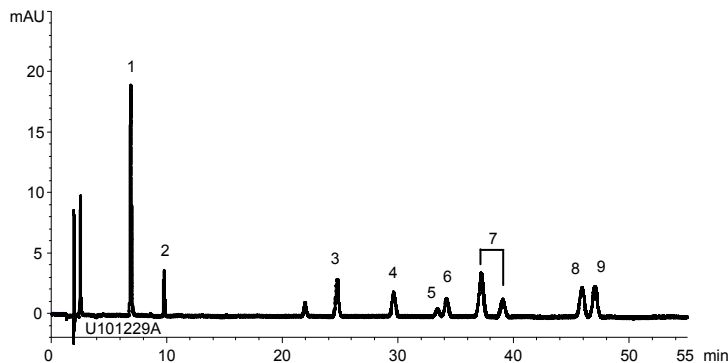


## ゴルフ場使用農薬 - 1.9 $\mu\text{m}$ カラムによる分析高速化

Pesticides used on golf course – method transfer from HPLC to UHPLC

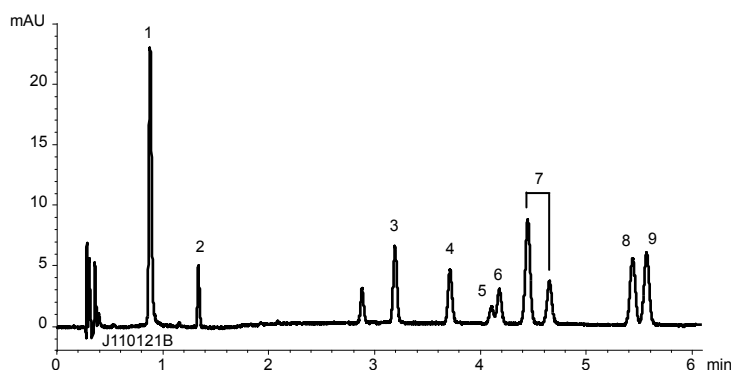
U110127A

### Conventional LC method



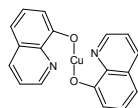
Column : YMC-Triart C18 (5  $\mu\text{m}$ , 12 nm)  
150 X 2.0 mmI.D.  
Flow rate : 0.2 mL/min  
Gradient : 5%B (0-3 min),  
5-30%B (3-10 min).  
30-45%B (10-55 min)

### UHPLC method



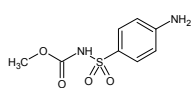
Column : YMC-Triart C18 (1.9  $\mu\text{m}$ , 12 nm)  
50 X 2.0 mmI.D.  
Flow rate : 0.6 mL/min  
Gradient : 5%B (0-0.3 min),  
5-30%B (0.3-1.0 min).  
30-45%B (1.0-6.0 min)

1.



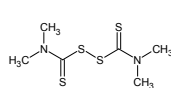
Oxine-copper  
(Copper 8-quinolinolate)

2.



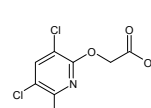
Asulam

3.



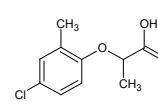
Thiram

4.



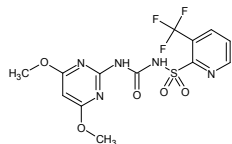
Triclopyr

5.



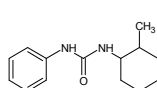
Mecoprop

6.



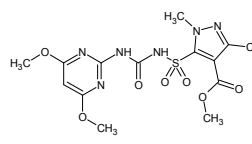
Flazasulfuron

7.



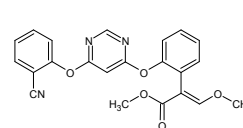
Siduron

8.



Halosulfuron-methyl

9.



Azoxystrobin

Eluent : A) water/formic acid (100/0.1)  
B) acetonitrile/formic acid (100/0.1)  
Temperature : 40°C  
Detection : UV at 240 nm  
Injection : 1  $\mu\text{L}$  (5  $\mu\text{g/mL}$ )