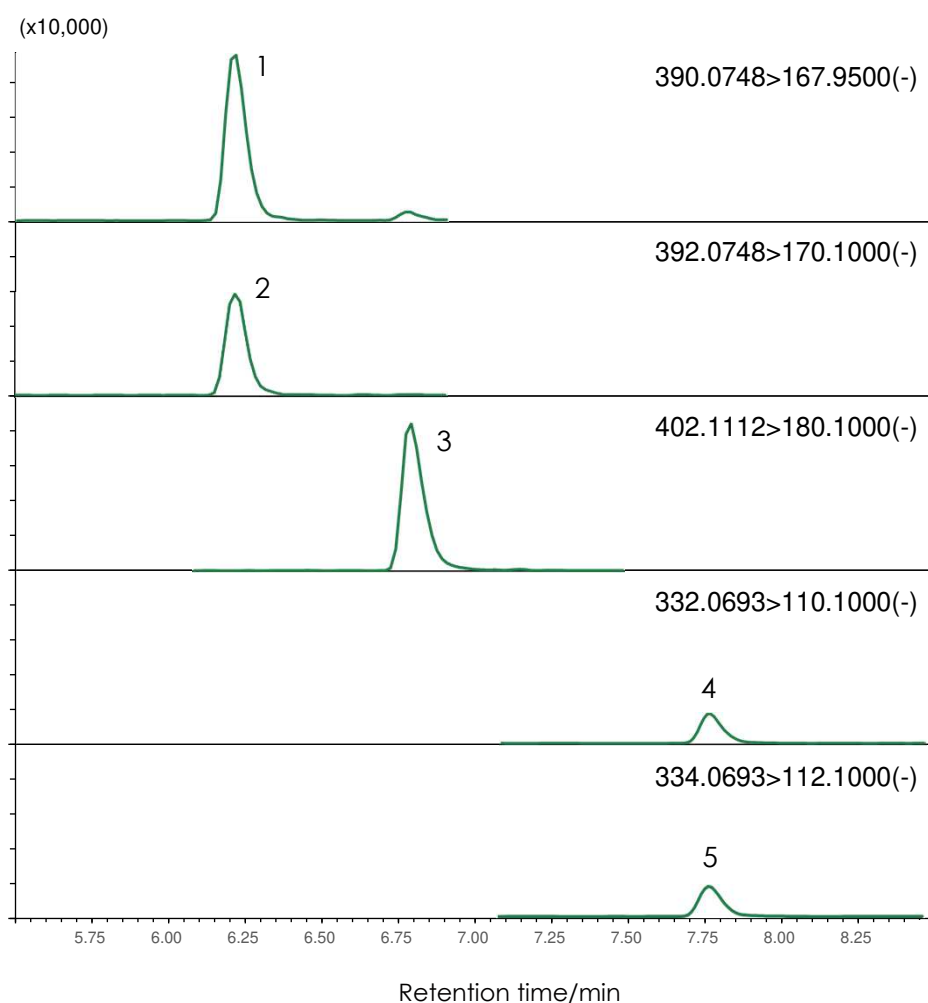


### グリホサート類の分離

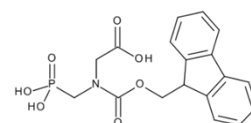
Prominert C18 3.5 μm, 150 x 2.1 mm i.d. MTF (Metal free)

### Glyphosate compounds (FMOC derivatization)



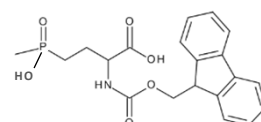
1,2

Glyphosate - FMOC



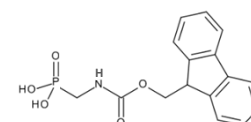
3

Glufosinate - FMOC



4,5

AMPA - FMOC



Sample:

1 = Glyphosate - FMOC

2 = [<sup>13</sup>C, <sup>15</sup>N] Glyphosate - FMOC

3 = Glufosinate - FMOC

4 = AMPA - FMOC

5 = [<sup>13</sup>C, <sup>15</sup>N] AMPA - FMOC

(AMPA: Aminomethyl phosphonic acid)

#### [HPLC Condition]

Column:

Prominert C18 3.5 μm, 150 x 2.1 mm i.d. MTF (Metal free)

Mobile phase:

A) 5 mM Ammonium acetate in Water

B) Acetonitrile

Gradient Program: see right

Flow rate: 0.25 mL/min

Column Temperature: 35 °C

Injection Volume: 10 μL

Instrument: LCMS-8050 (Shimadzu)

Time (min)	B.Conc(%)
0 – 1.01	5
1.01 – 9.50	5 → 63
9.50 – 11.0	63 → 95
11.0 – 13.0	95
13.0 – 18.0	5

#### [MS Condition]

Interface: ESI

Nebulizing gas flow: 2 L/min

Drying gas flow: 10 L/min

Heating gas flow: 10 L/min

DL temp.: 150 °C

Heat Block Temp.: 400 °C

Interface Temp.: 300 °C

CID-gas: 210 kPa

Interface voltage: -3 kV

提供：一般社団法人 農産物検査センター