

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

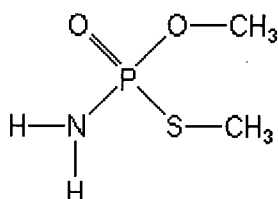
### Analyte: Methamidophos

CAS No.: 10265-92-6

Formula: C<sub>2</sub>H<sub>8</sub>NO<sub>2</sub>P<sub>3</sub>S

Molecular mass (lowest isotopes): 141,00 amu

Structure:



Ionisation: ESI +

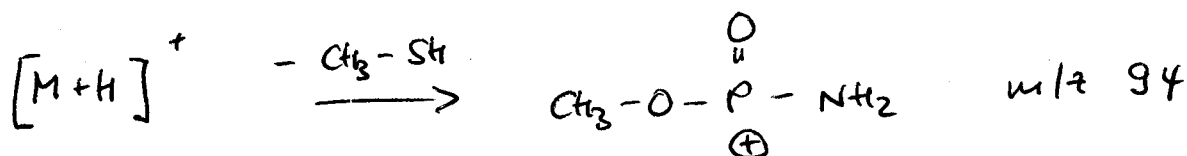
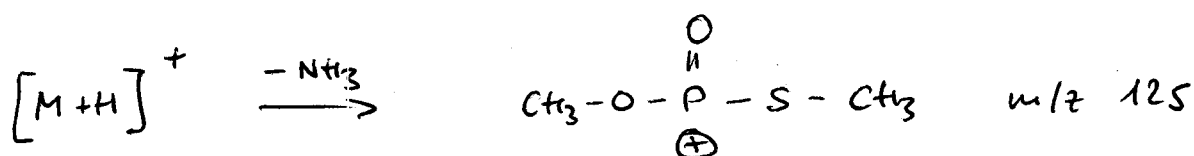
Quasimolecular ion: 142,0 amu = [M+H]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

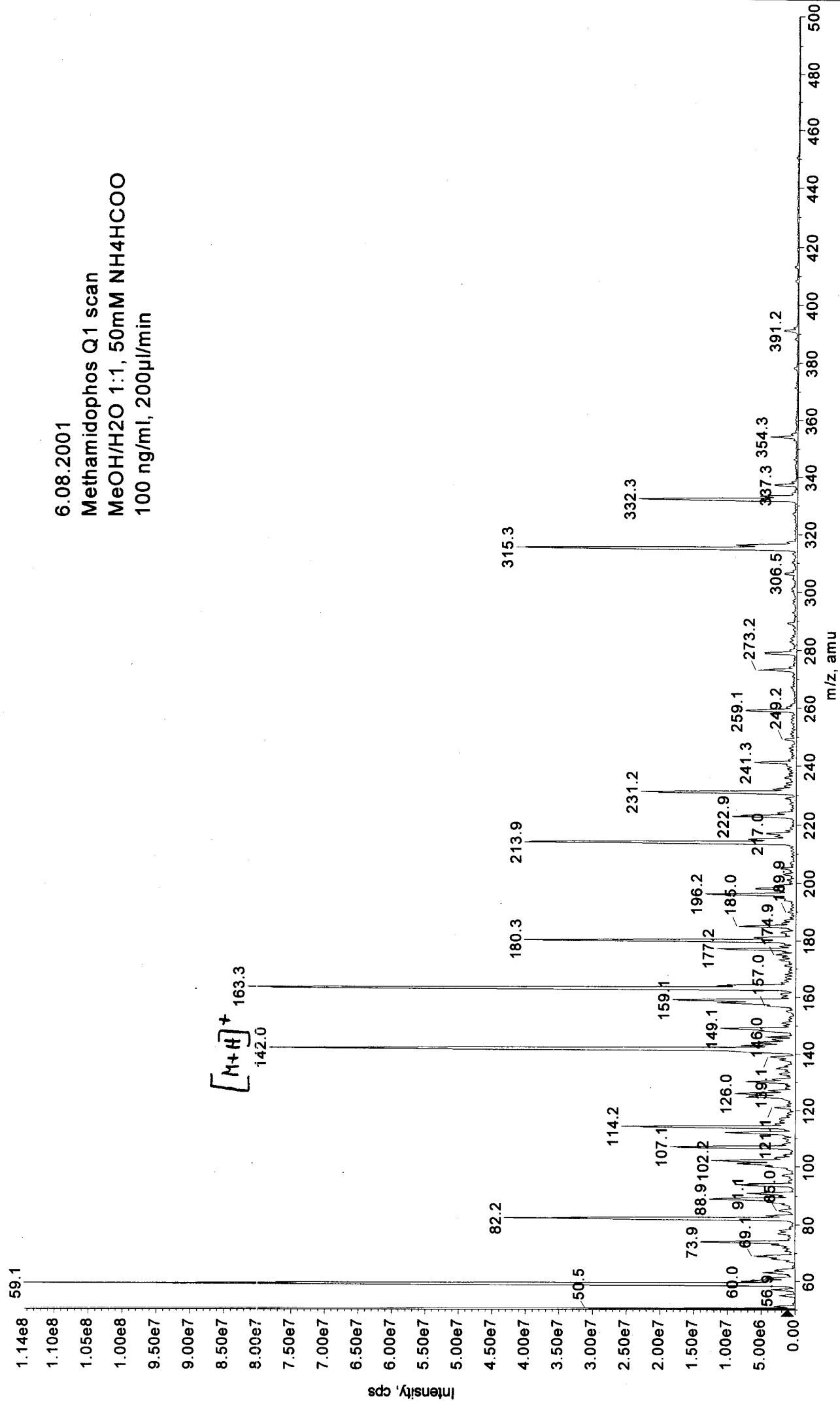
Transition	142,0 → 124,9	142,0 → 93,9
Declustering potential (DP) <sup>*)</sup>	26 V	26 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	12,0 V	11,0 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	19 V	19 V
Collision cell exit potential (CXP)	6 V	14 V

\*) For API 3000 and 4000 enhance DP by 20V

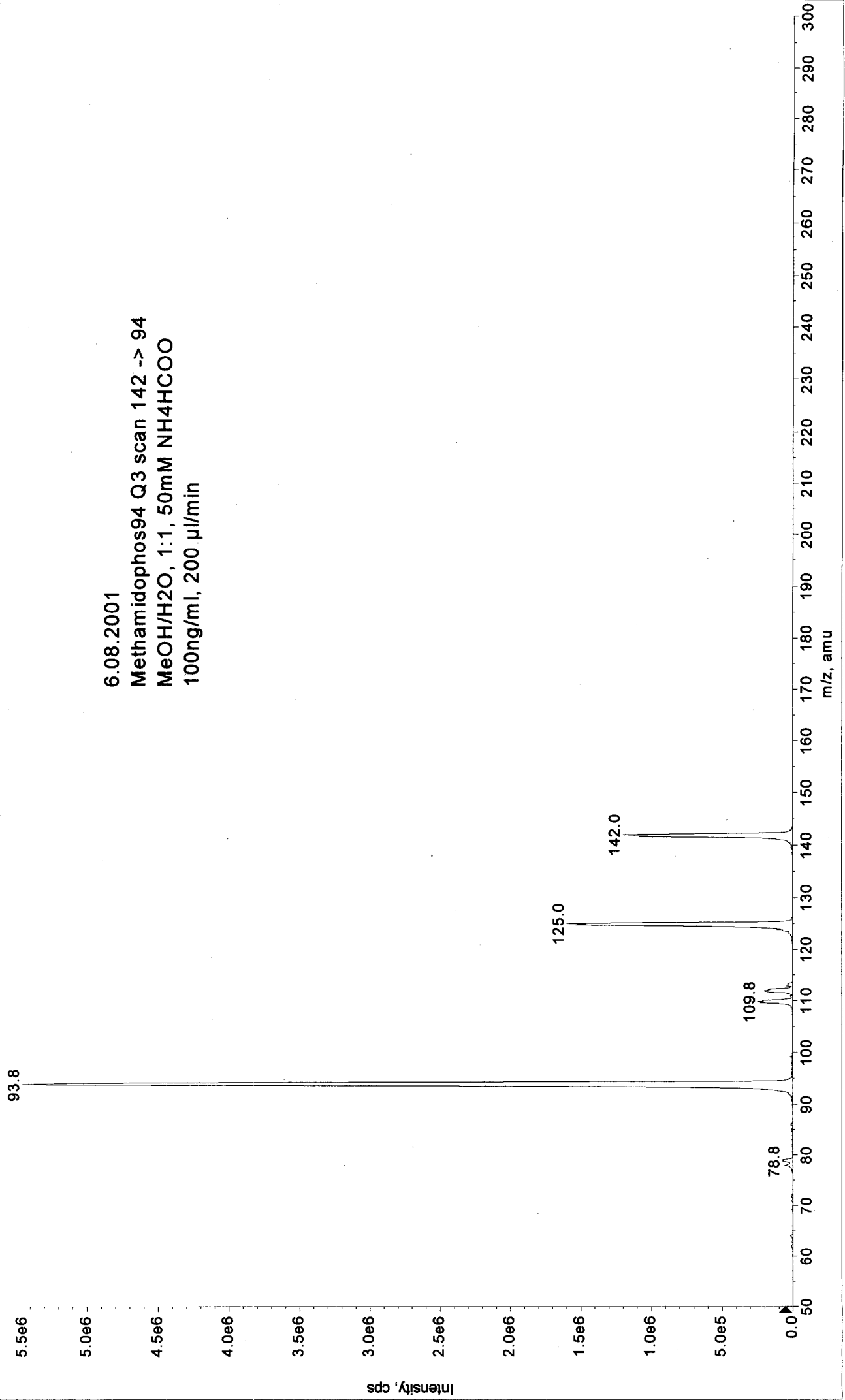
### Fragmentation



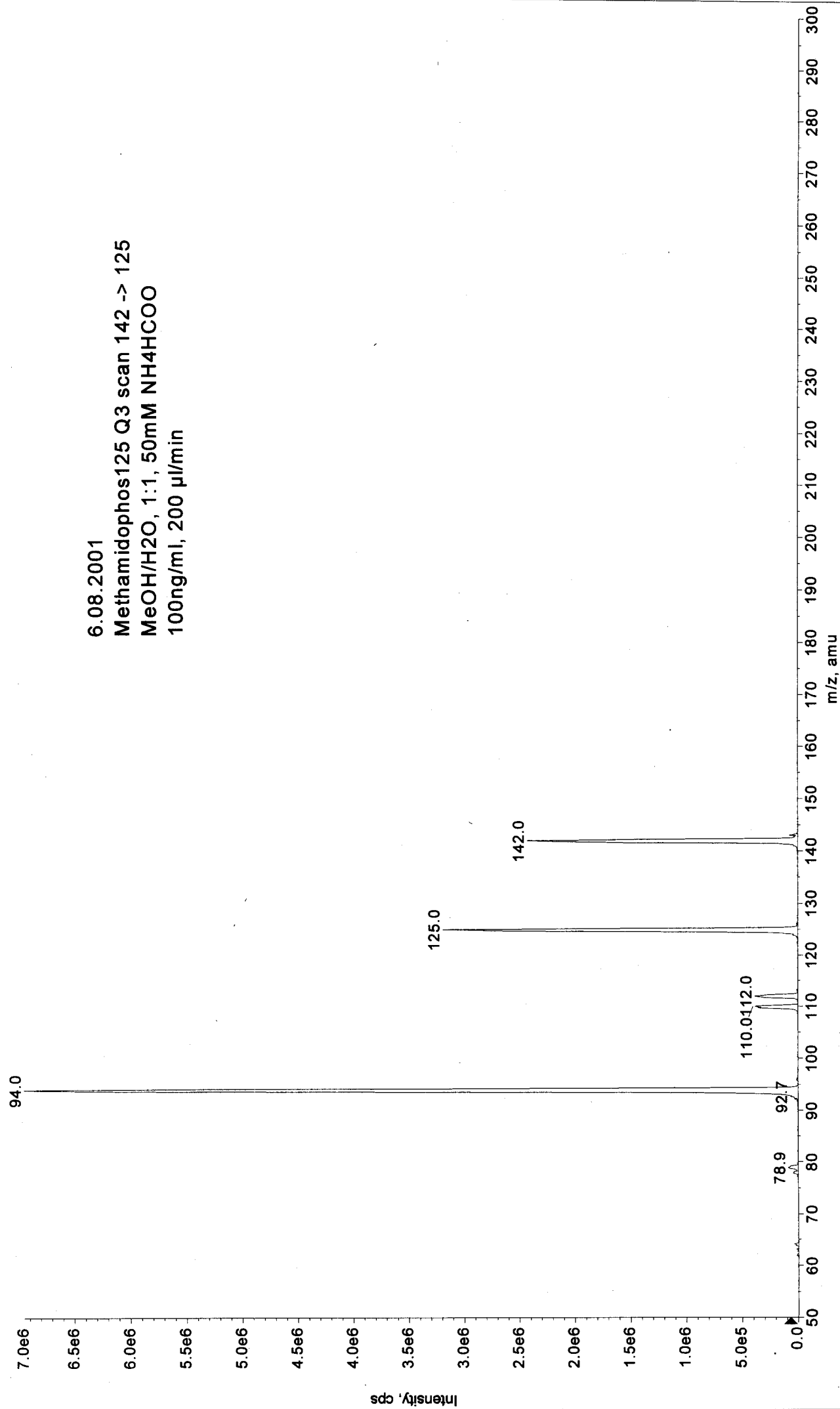
6.08.2001  
Methamidophos Q1 scan  
MeOH/H<sub>2</sub>O 1:1, 50mM NH<sub>4</sub>HCOO  
100 ng/ml, 200µl/min



6.08.2001  
Methamidophos94 Q3 scan 142 -> 94  
MeOH/H2O, 1:1, 50mM NH4HCOO  
100ng/ml, 200 µl/min



6.08.2001  
Methamidophos125 Q3 scan 142 -> 125  
MeOH/H2O, 1:1, 50mM NH4HCOO  
100ng/ml, 200 µl/min



6.08.2001  
Methamidophos Q3 scan 142 -> 79  
MeOH/H2O 1:1, 50mM NH4HCOO  
100 ng/ml, 200µl/min

