

## MS/MS Parameters of Pesticides

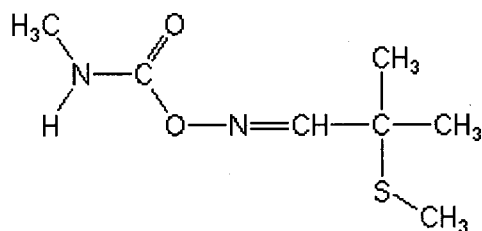
### Analyte: Aldicarb

CAS No.: 116-06-3

Formula: C<sub>7</sub>H<sub>14</sub>N<sub>2</sub>O<sub>2</sub>S

Molecular mass (lowest isotopes): 190,08 amu

Structure:



Ionisation: ESI +

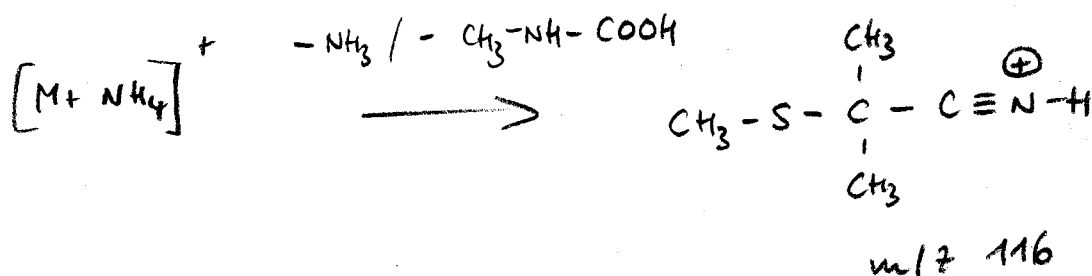
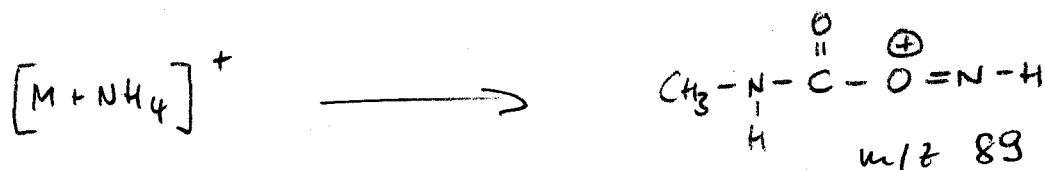
Quasimolecular ion: 208,1 amu = [M+NH<sub>4</sub>]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

Transition	208,1 → 89,1	208,1 → 116,0
Declustering potential (DP) <sup>*)</sup>	6 V	6 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	7,0 V	6,5 V
Collision cell entrance potential (CEP)	12 V	10 V
Collision energy (CE)	21 V	13 V
Collision cell exit potential (CXP)	6 V	6 V

<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20 V

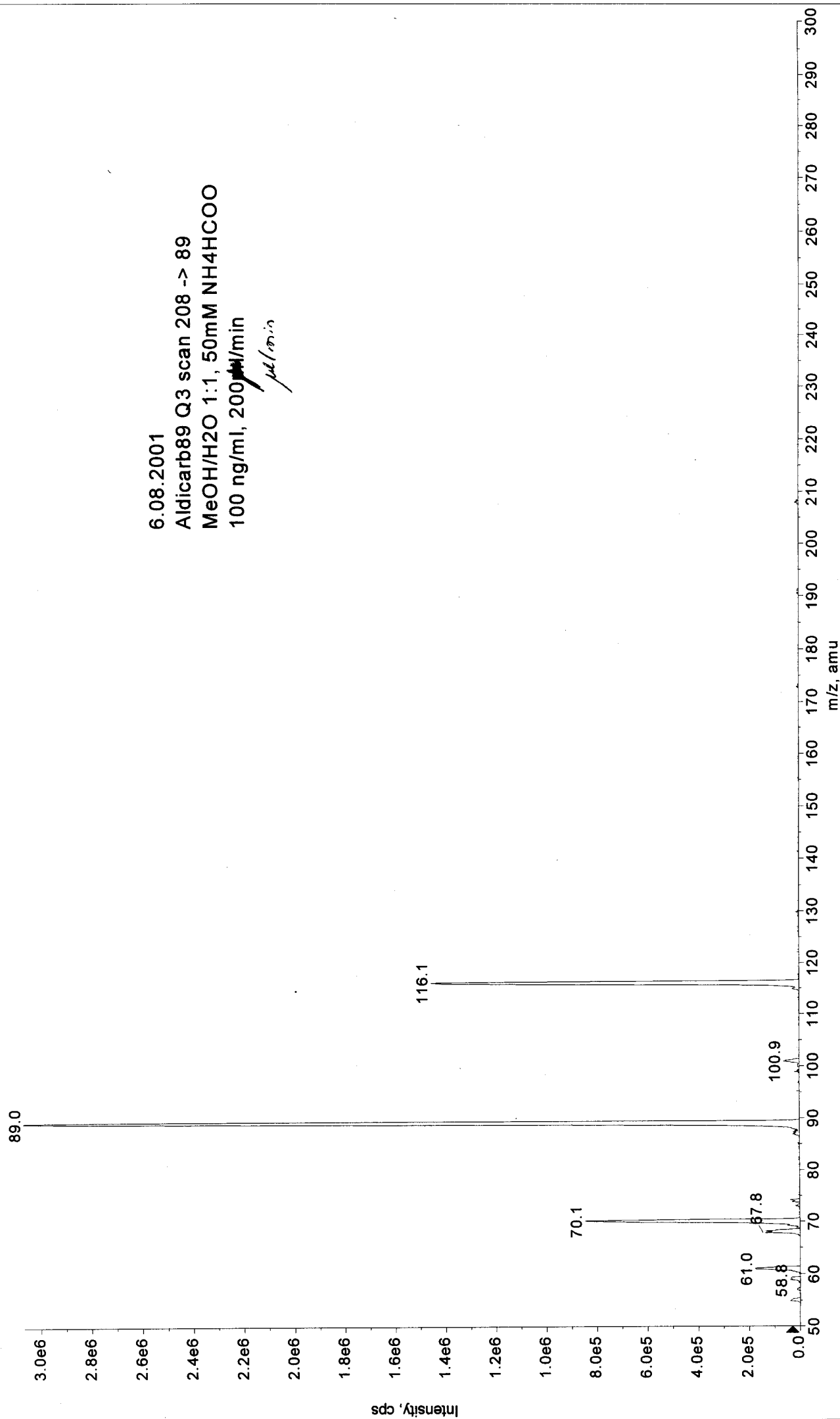
### Fragmentation



6.08.2001  
Aldicarb Q1 scan  
MeOH/H2O 1:1, 50mM NH4HCOO  
100 ng/ml, 200  $\mu$ l/min  
 $[M+NH_4]^+ = 208$



6.08.2001  
Aldicarb89 Q3 scan 208 -> 89  
MeOH/H2O 1:1, 50mM NH4HCOO  
100 ng/ml, 200  $\mu$ l/min



6.08.2001  
Aldicarb Q3 scan 208 -> 116  
MeOH/H2O 1:1, 50mM NH4HCOO  
100 ng/ml, 200ml/min

