

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

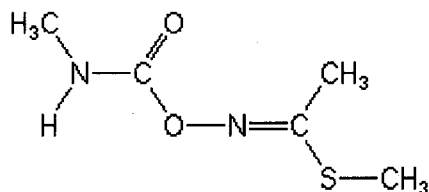
Analyte: Methomyl

CAS No.: 16752-77-5

Formula: C₅H₁₀N₂O₂S

Molecular mass (lowest isotopes): 162,05 amu

Structure:



Ionisation: ESI +

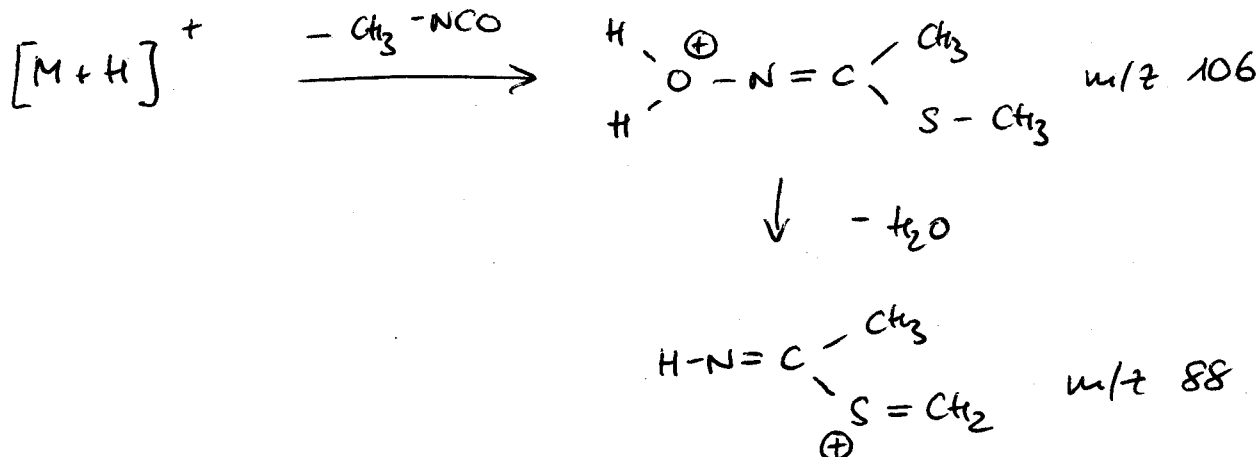
Quasimolecular ion: 163,0 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

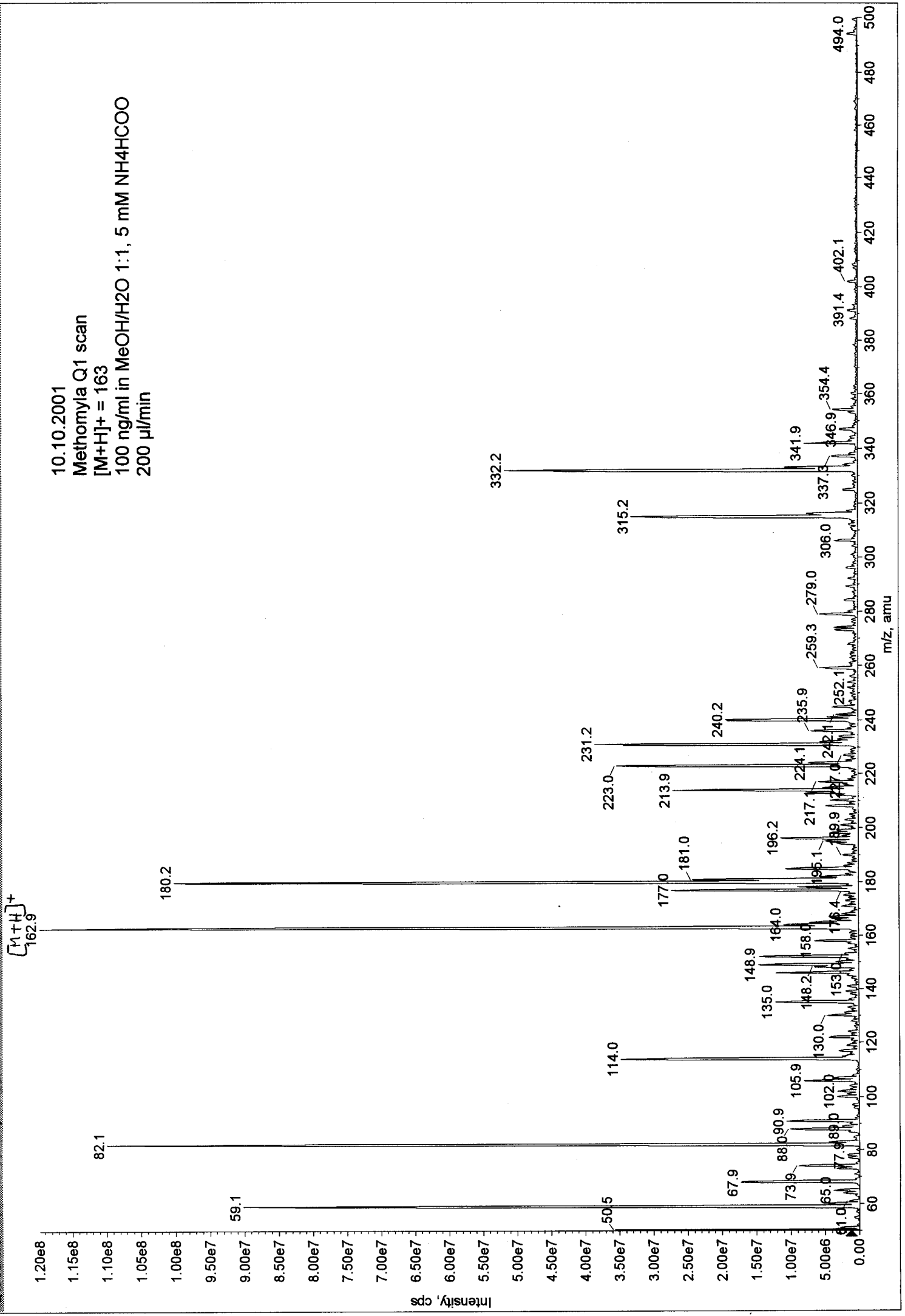
Transition	163,0 → 106,0	163,0 → 88,0
Declustering potential (DP) ^{*)}	41 V	41 V
Focusing potential (FP)	360 V	340 V
Entrance potential (EP)	12,0 V	12,0 V
Collision cell entrance potential (CEP)	14 V	14 V
Collision energy (CE)	13 V	13 V
Collision cell exit potential (CXP)	6 V	6 V

^{*)} For API 3000 and 4000 enhance DP by 20V

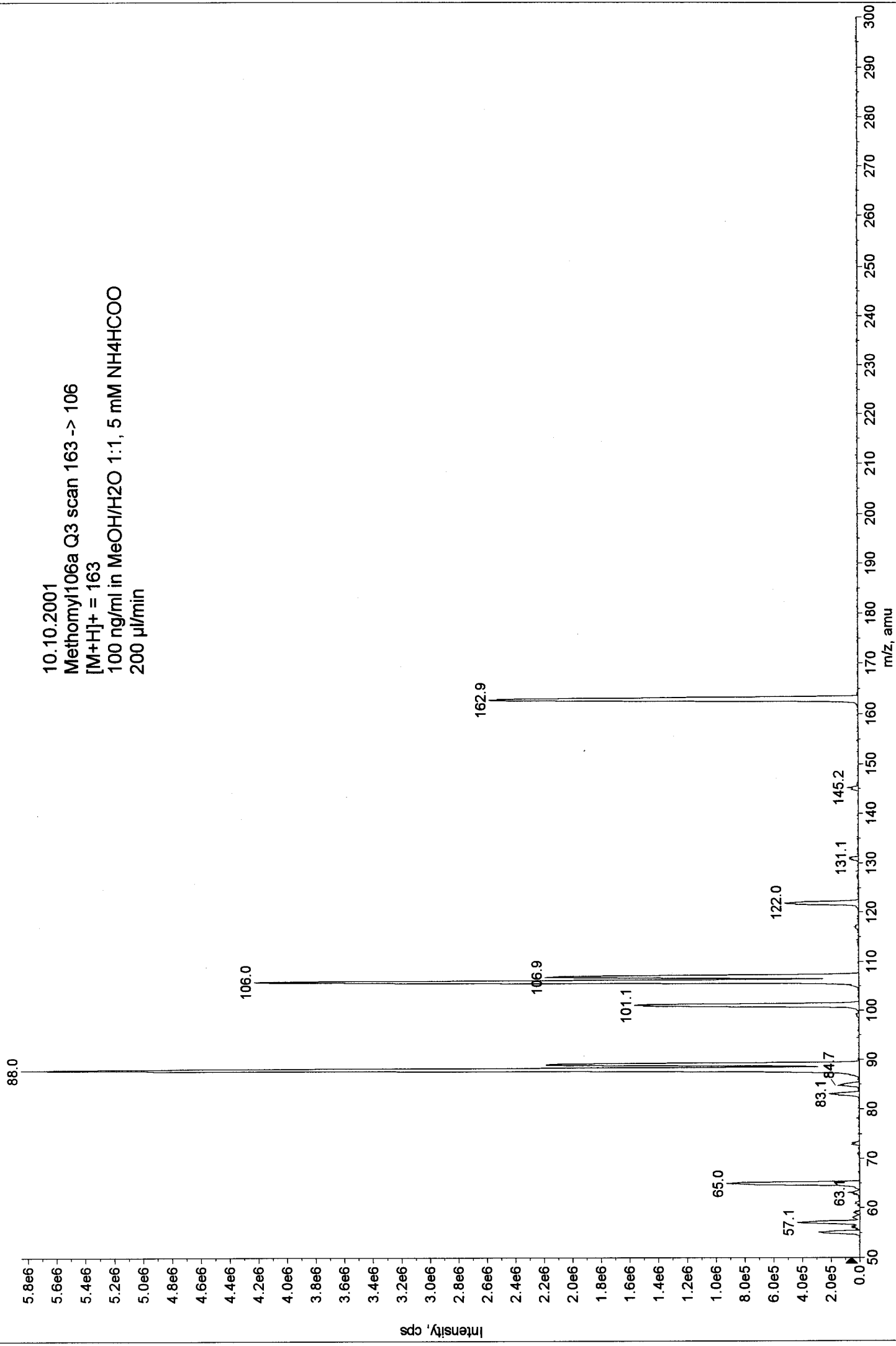
Fragmentation



10.10.2001
Methomyia Q1 scan
[M+H]⁺ = 163
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 µl/min



10.10.2001
Methomy106a Q3 scan 163 -> 106
[M+H]⁺ = 163
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 µl/min



10.10.2001
Methomyl Q3 scan 163 -> 88
[M+H]⁺ = 163
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 µl/min

