

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

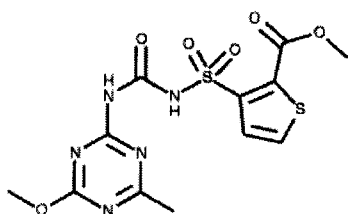
Analyte: Thifensulfuron-methyl

CAS No.: 79277-27-3

Formula: C₁₂H₁₃N₅O₆S₂

Molecular mass (lowest isotopes): 387,03 amu

Structure:



Ionisation: ESI +

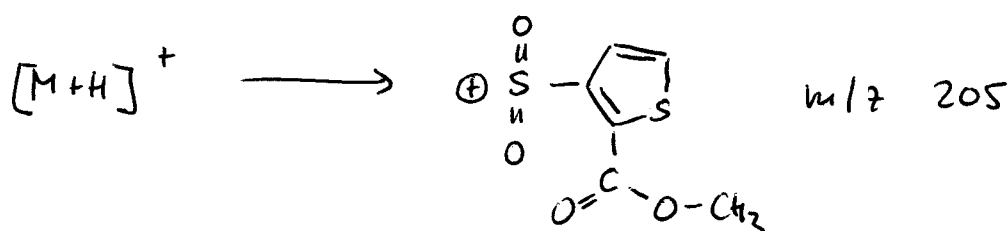
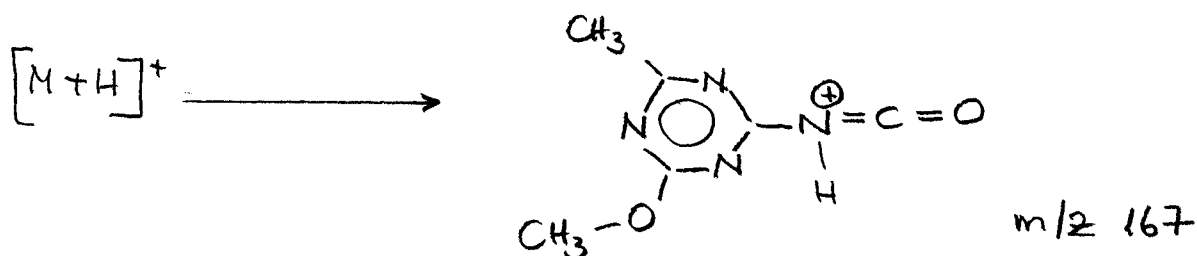
Quasimolecular ion: 388,0 amu = [M+H]⁺

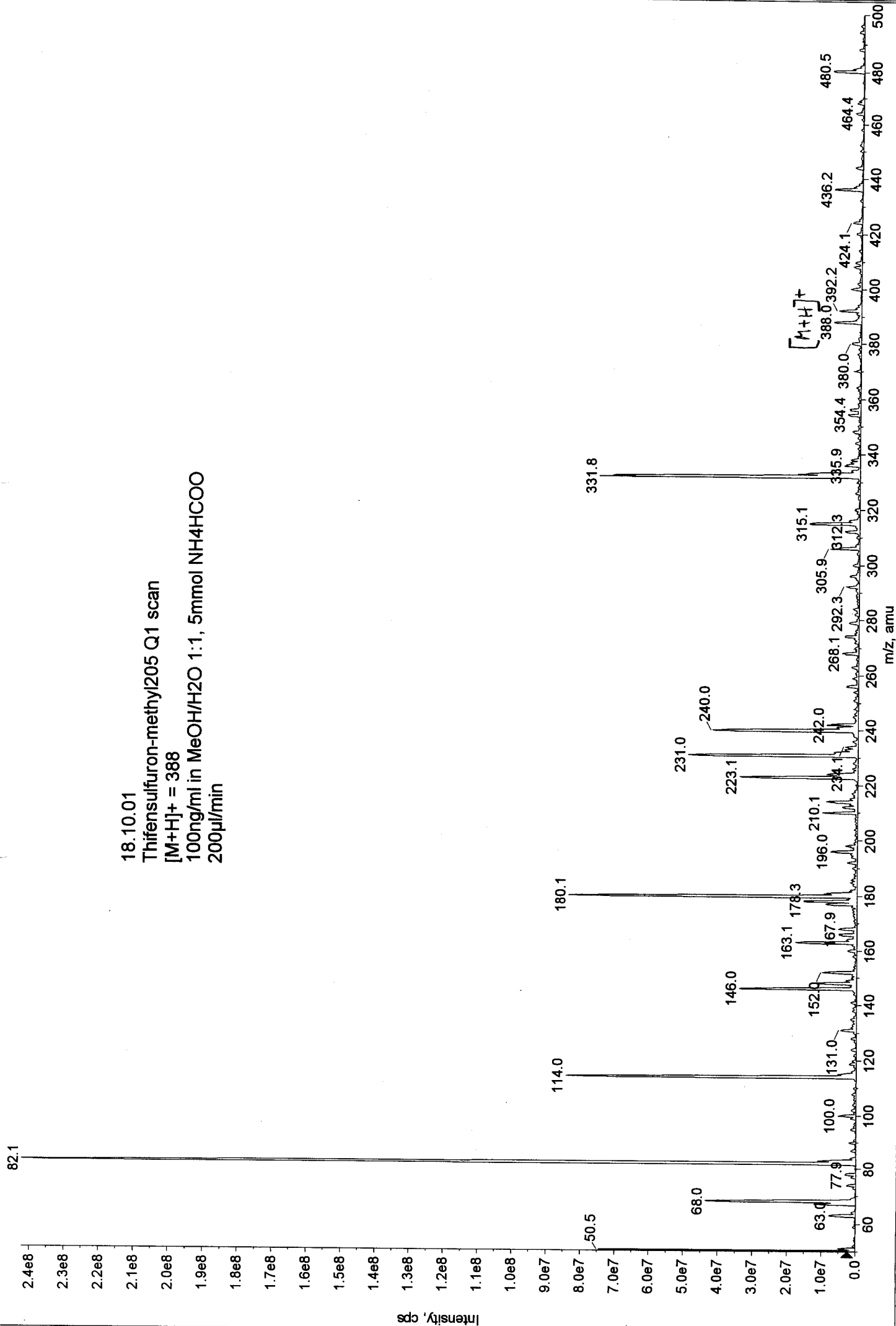
Analyte sensitive parameter set (API 2000)

Transition	388,0 → 167,0	388,0 → 204,9
Declustering potential (DP) ^{*)}	29 V	29 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	9,0 V	10,0 V
Collision cell entrance potential (CEP)	24 V	24 V
Collision energy (CE)	21 V	33 V
Collision cell exit potential (CXP)	8 V	10 V

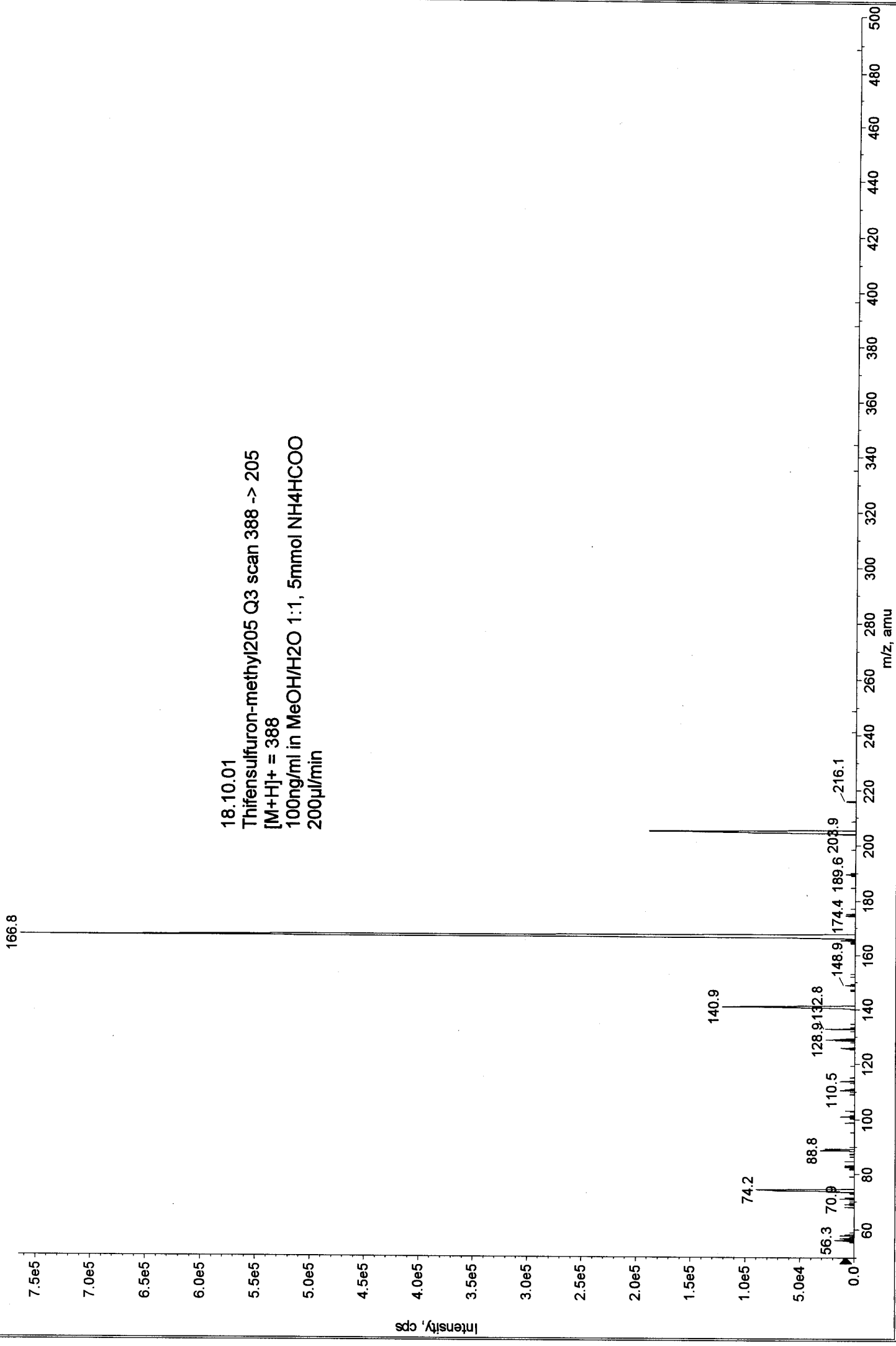
^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation





18.10.01
 Thifensulfuron-methyl/205 Q1 scan
 $[M+H]^+ = 388$
 100ng/ml in MeOH/H₂O 1:1, 5mmol NH₄HCOO
 200µl/min



18.10.01
Thiensenulfuron-methyl Q3 scan 388 -> 167
[M+H]⁺ = 388
100ng/ml in MeOH/H₂O 1:1, 5mmol NH₄HCOO
200µl/min

