

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

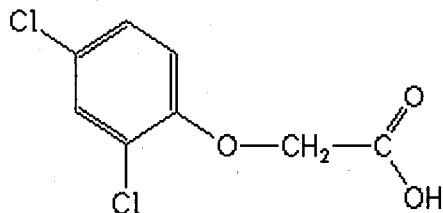
Analyte: 2,4-D

CAS No.: 94-75-7

Formula: C₈H₆Cl₂O₃

Molecular mass (lowest isotopes): 219,97 amu

Structure:



Ionisation: ESI -

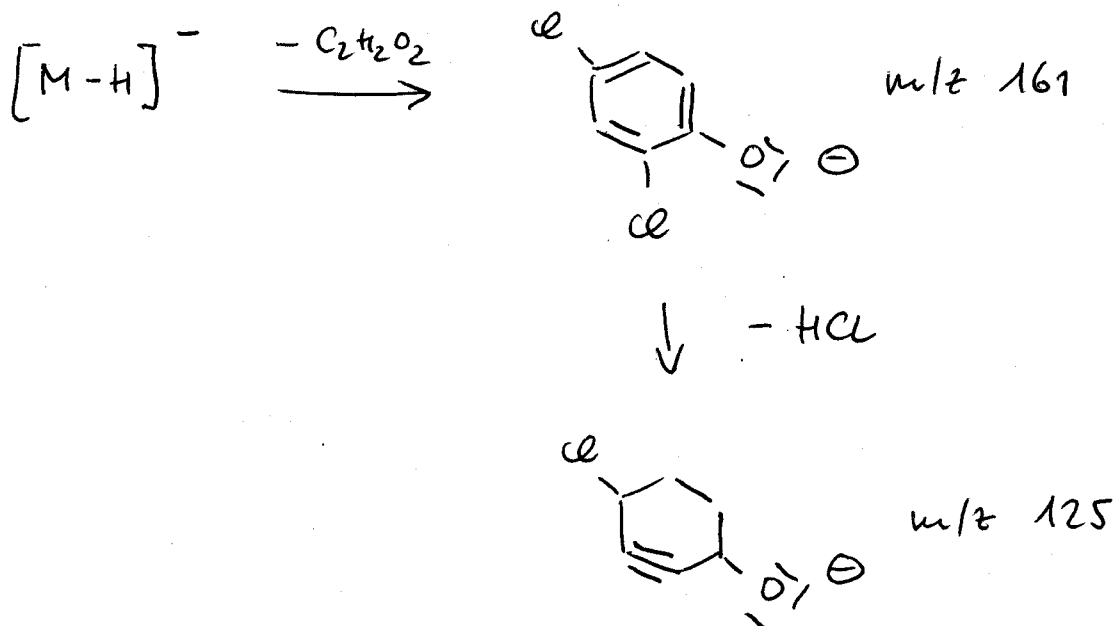
Quasimolecular ion: 219,0 amu = [M-H]⁻

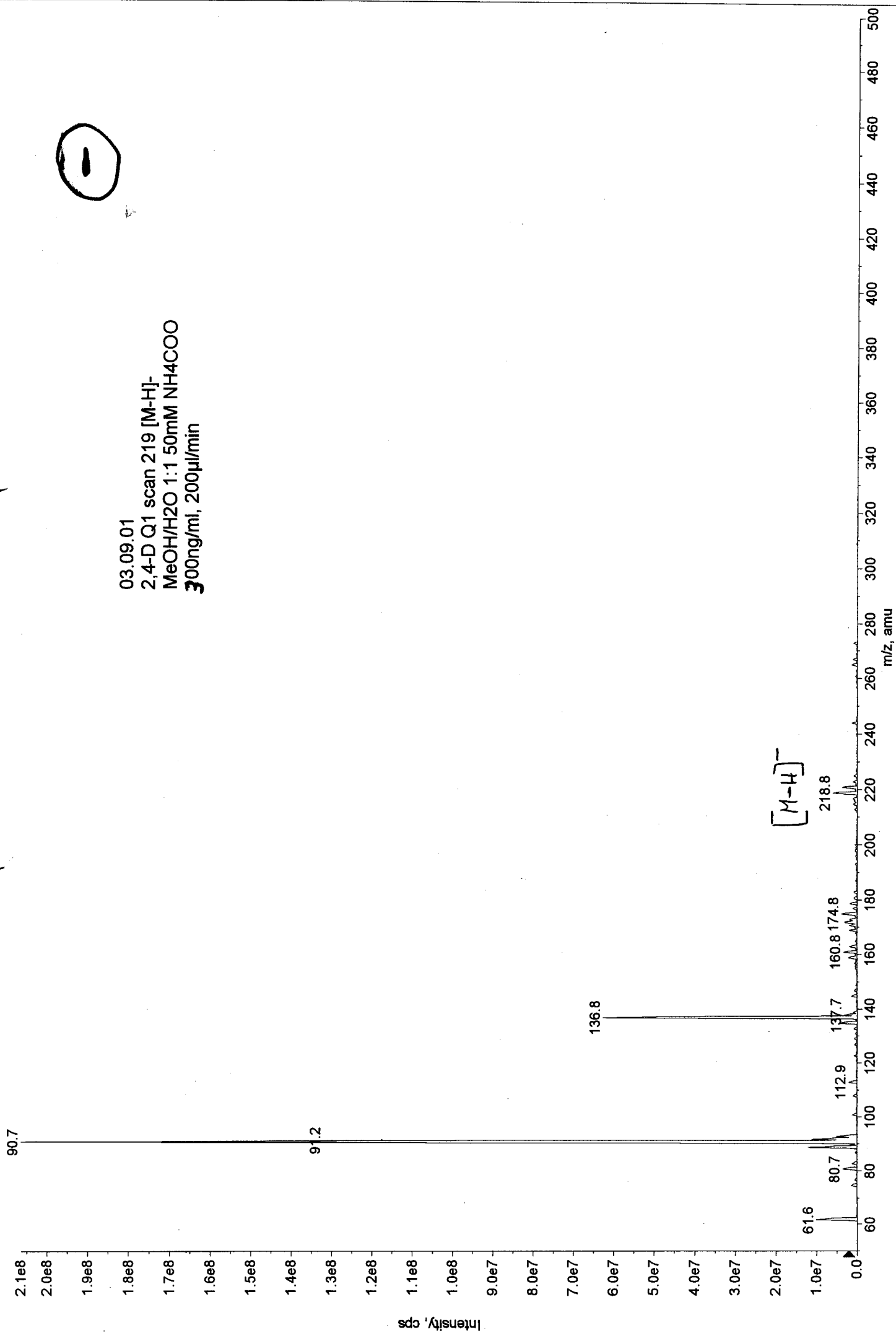
Analyte sensitive parameter set (API 2000)

Transition	219,0 → 160,9	219,0 → 124,9
Declustering potential (DP)*)	-19V	-19 V
Focusing potential (FP)	-350 V	-350 V
Entrance potential (EP)	10,0 V	9,5 V
Collision cell entrance potential (CEP)	-22 V	-20 V
Collision energy (CE)	-14 V	-34 V
Collision cell exit potential (CXP)	-10 V	-26 V

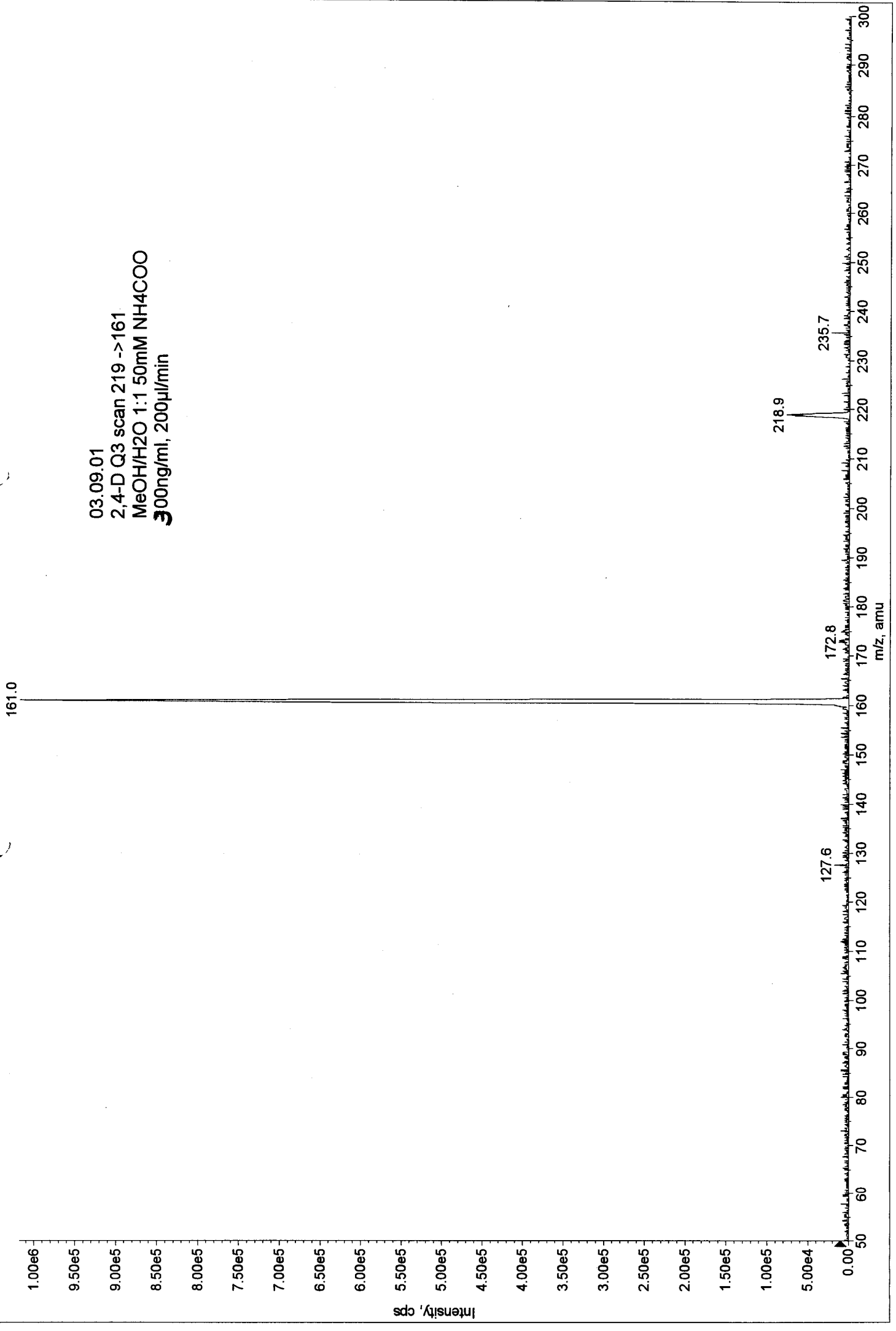
*) For API 3000 and 4000 enhance DP by 20V

Fragmentation





03.09.01
2,4-D Q3 scan 219 ->161
MeOH/H2O 1:1 50mM NH4COO
300ng/ml, 200µl/min



03.09.01
2,4-D125 Q3 scan 219 ->125
MeOH/H2O 1:1 50mM NH4COO
300ng/ml, 200µl/min

