

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

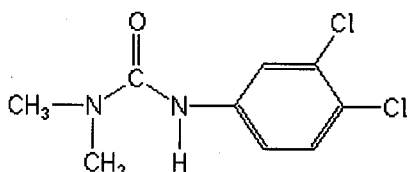
Analyte: Diuron

CAS No.: 330-54-1

Formula: C₉H₁₀Cl₂N₂O

Molecular mass (lowest isotopes): 232,02 amu

Structure:



Ionisation: ESI +

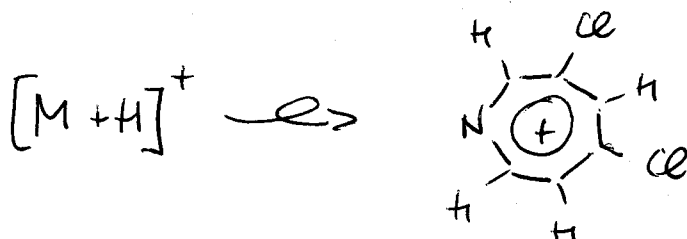
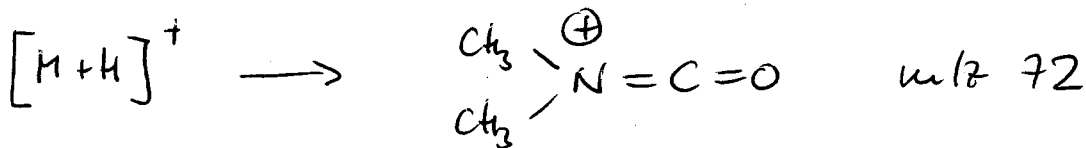
Quasimolecular ion: 233,0 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

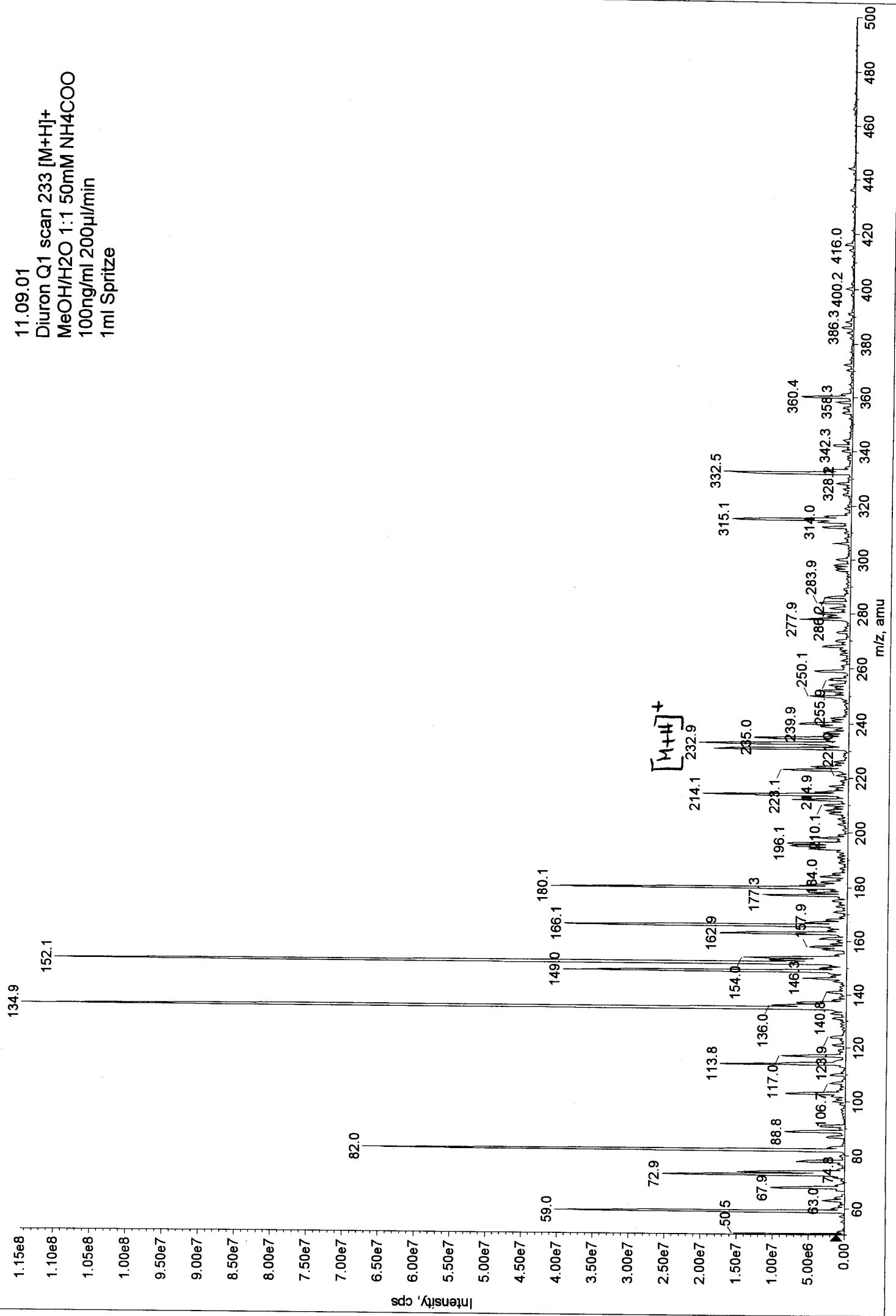
Transition	233,0 → 72,0	233,0 → 159,9
Declustering potential (DP) ^{*)}	66 V	66 V
Focusing potential (FP)	310 V	320 V
Entrance potential (EP)	9,5 V	10,0 V
Collision cell entrance potential (CEP)	16 V	16 V
Collision energy (CE)	31 V	33 V
Collision cell exit potential (CXP)	10 V	8 V

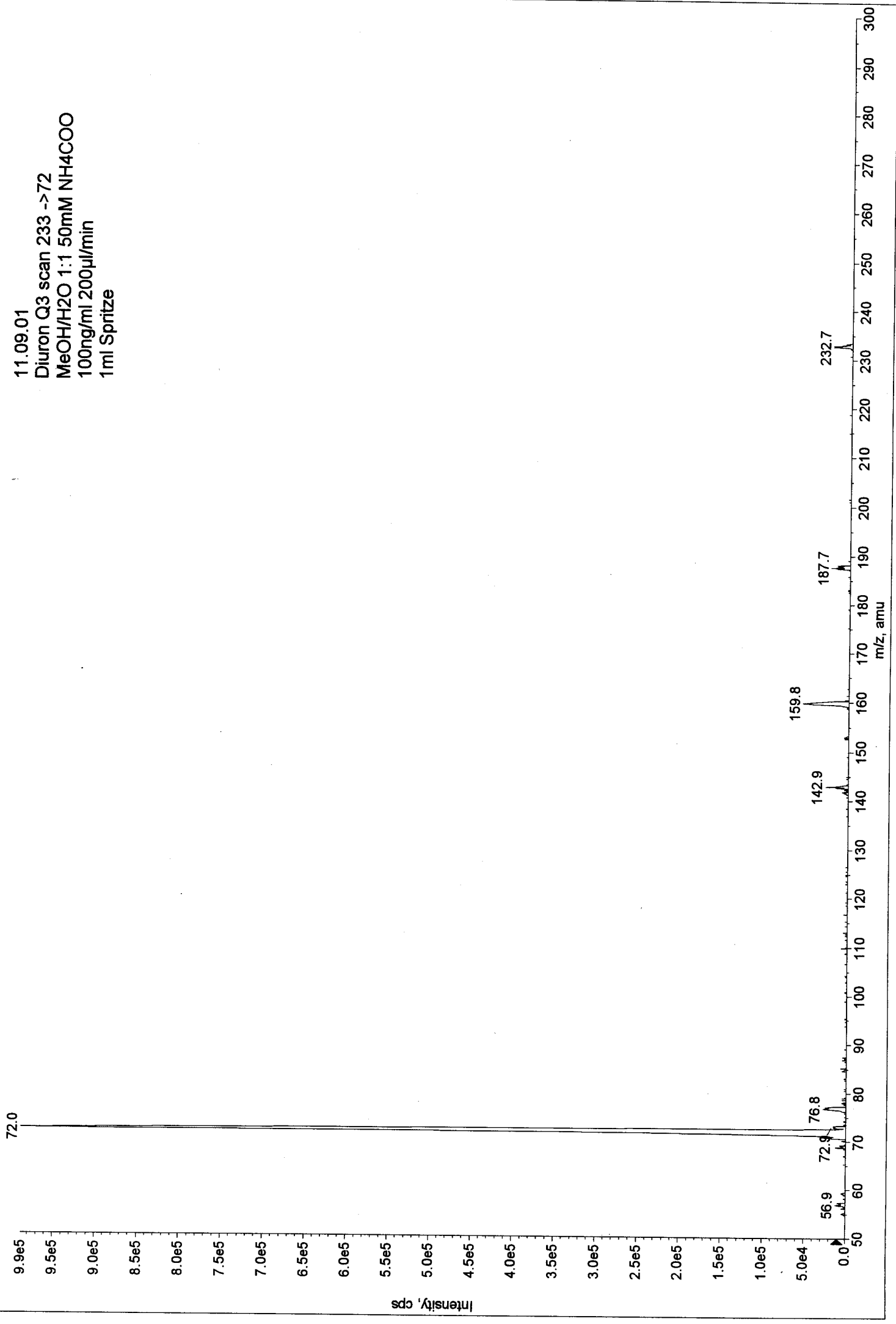
^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation



11.09.01
Diuron Q1 scan 233 [M+H]⁺
MeOH/H₂O 1:1 50mM NH₄COO
100ng/ml 200µl/min
1ml Spritze





11.09.01
Diuron160 Q3 scan 233 ->160
MeOH/H2O 1:1 50mM NH4COO
100ng/ml 200µl/min
1ml Spritze

