

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

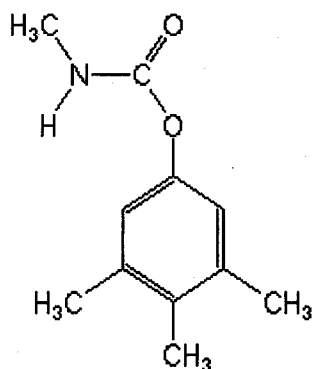
Analyte: 3,4,5-Trimethacarb

CAS No.: 2686-99-9

Formula: C₁₁H₁₅NO₂

Molecular mass (lowest isotopes): 193,11 amu

Structure:



Ionisation: ESI +

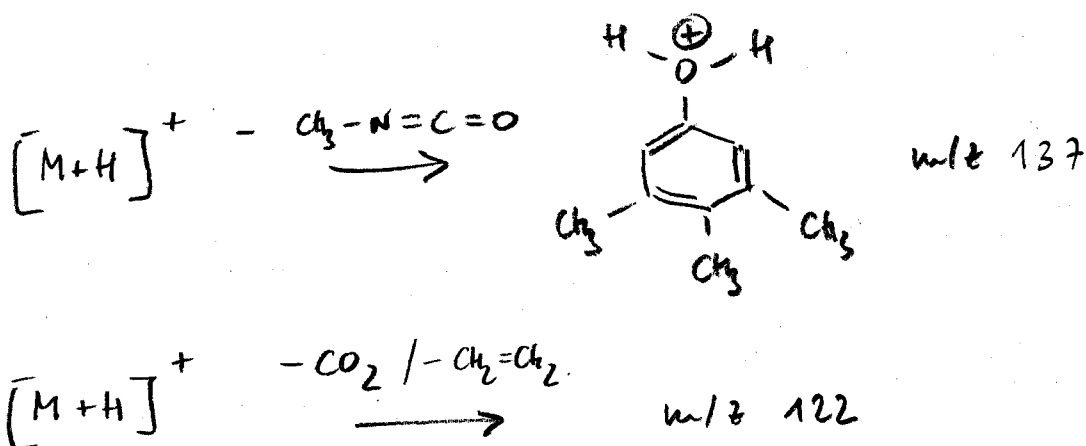
Quasimolecular ion: 194,1 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

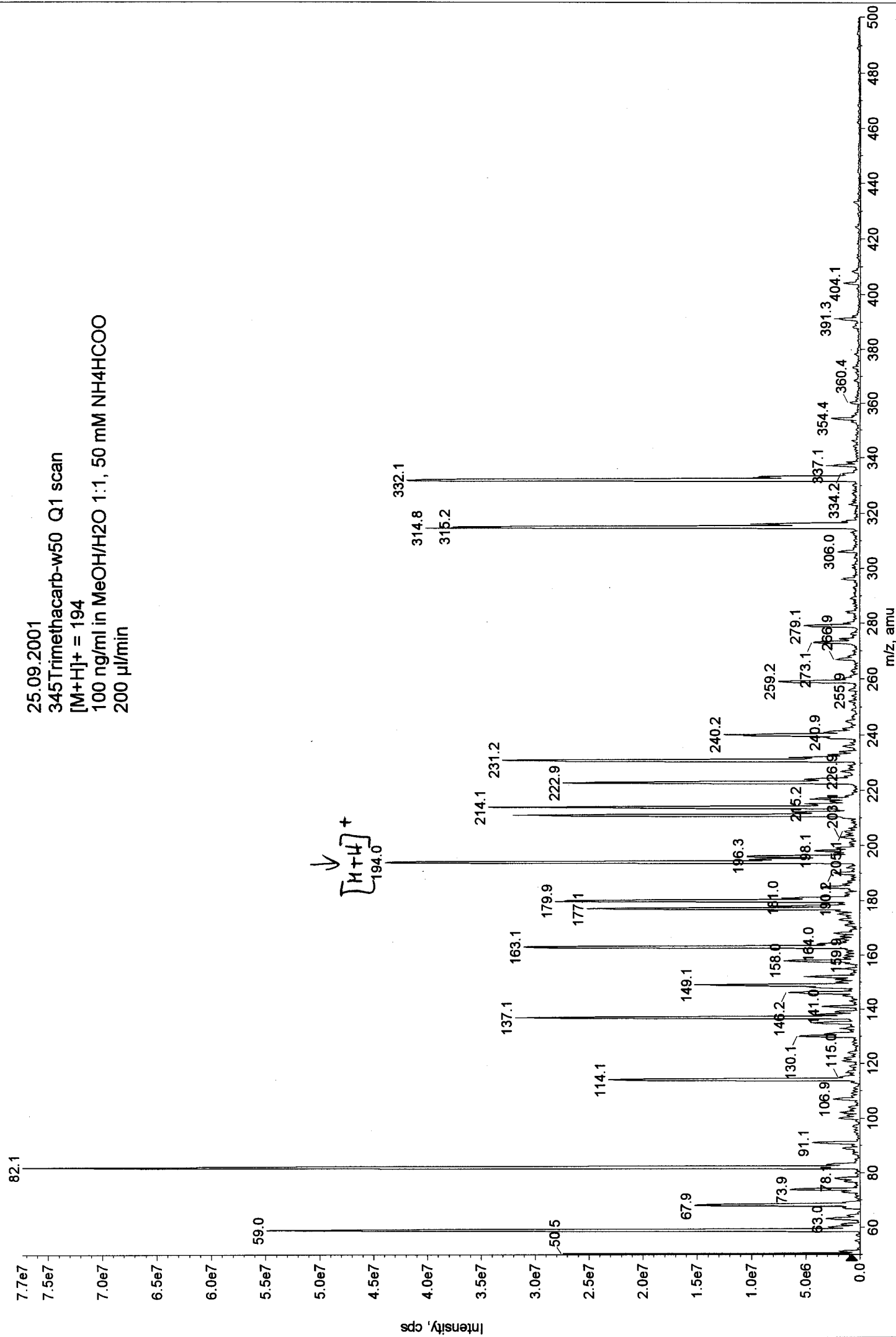
Transition	194,1 → 137,1	194,1 → 122,0
Declustering potential (DP) ^{*)}	61 V	61 V
Focusing potential (FP)	340 V	360 V
Entrance potential (EP)	10,0 V	10,0 V
Collision cell entrance potential (CEP)	14 V	14 V
Collision energy (CE)	15 V	35 V
Collision cell exit potential (CXP)	6 V	6 V

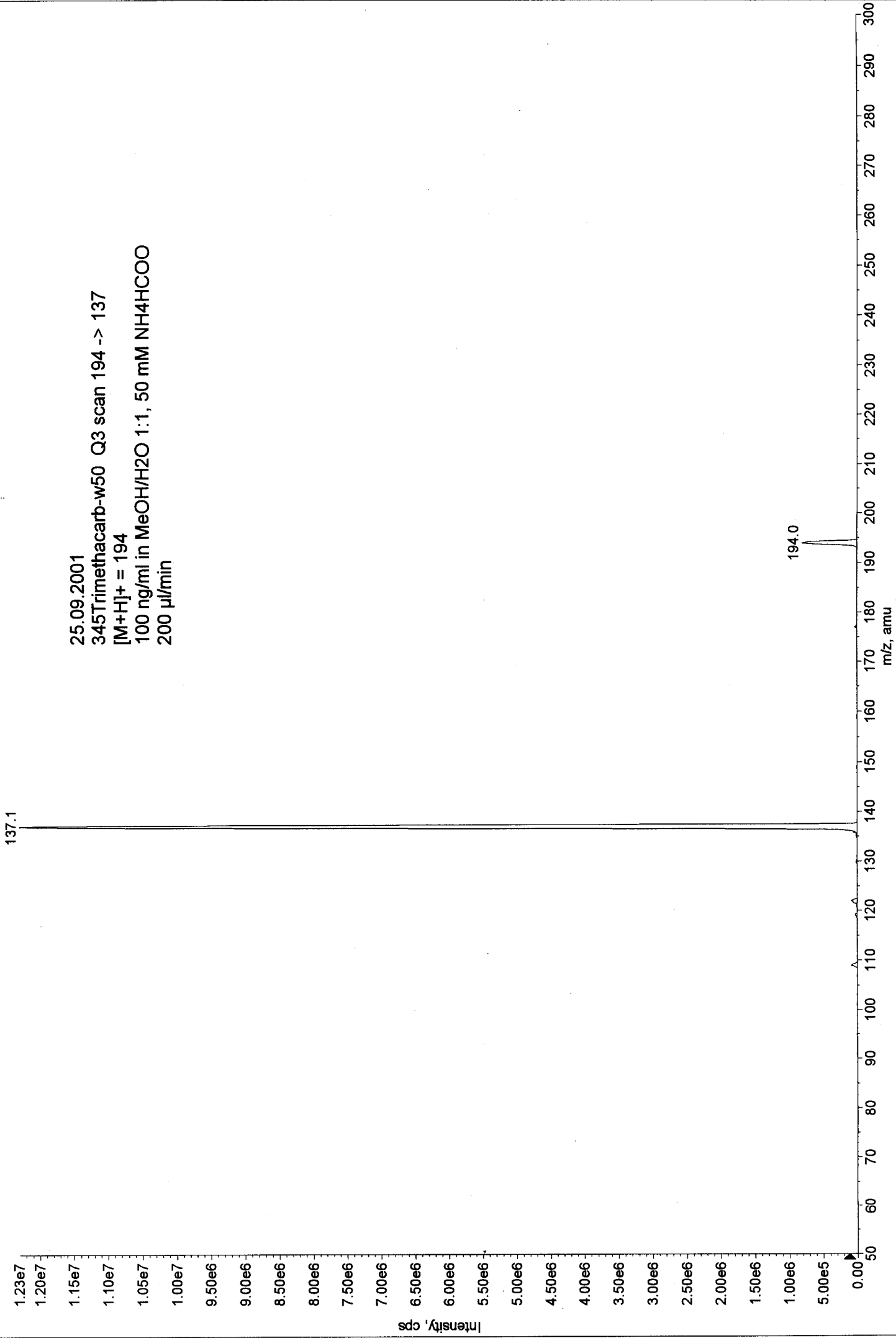
^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation



25.09.2001
345 Trimethacarb-w50 Q1 scan
[M+H]⁺ = 194
100 ng/ml in MeOH/H₂O 1:1, 50 mM NH₄HCOO
200 µl/min





25.09.2001
345Trimethacarb-w50 Q3 scan 194 -> 137
[M+H]⁺ = 194
100 ng/ml in MeOH/H₂O 1:1, 50 mM NH₄HCOO
200 µl/min

25.09.2001
345Trimethacarb122-w5 Q3 scan 194 -> 122
[M+H]⁺ = 194
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 µl/min

