

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

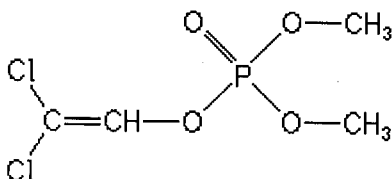
Analyte: Dichlorvos

CAS No.: 62-73-7

Formula: C₄H₇Cl₂O₄P

Molecular mass (lowest isotopes): 219,95 amu

Structure:



Ionisation: ESI +

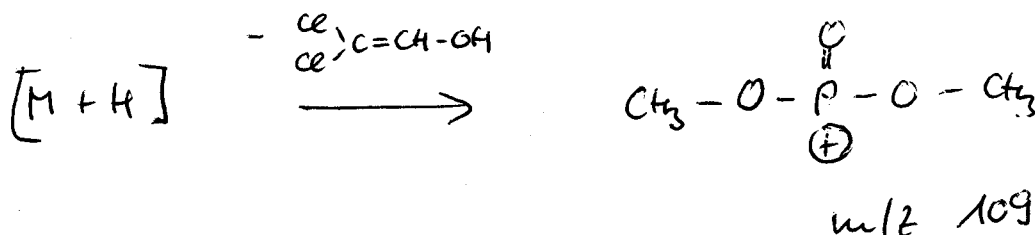
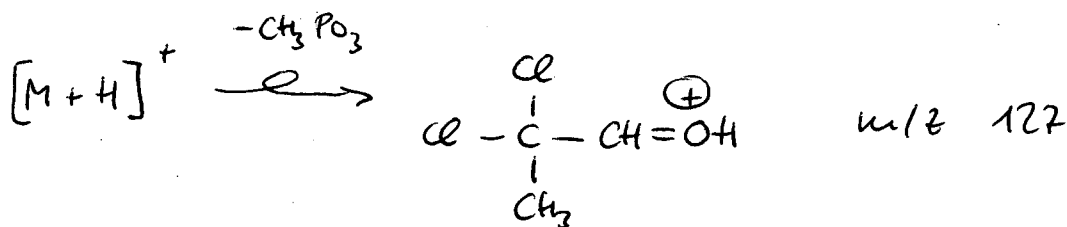
Quasimolecular ion: 220,9 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

Transition	220,9 → 127,1	220,9 → 108,9
Declustering potential (DP)*)	26 V	26 V
Focusing potential (FP)	370 V	350 V
Entrance potential (EP)	12,0 V	12,0 V
Collision cell entrance potential (CEP)	12 V	14 V
Collision energy (CE)	27 V	25 V
Collision cell exit potential (CXP)	6 V	6 V

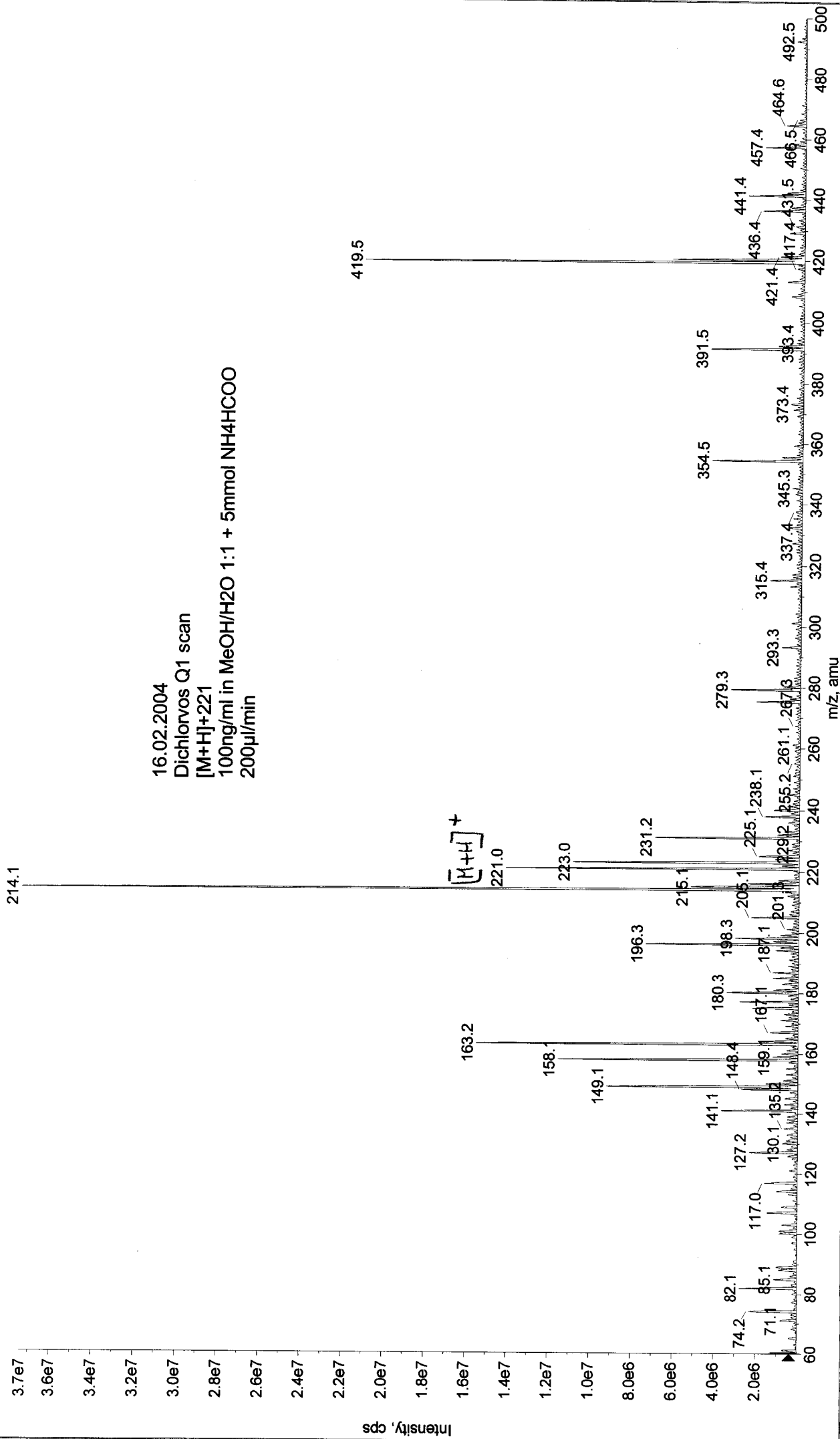
*) For API 3000 and 4000 enhance DP by 20V

Fragmentation



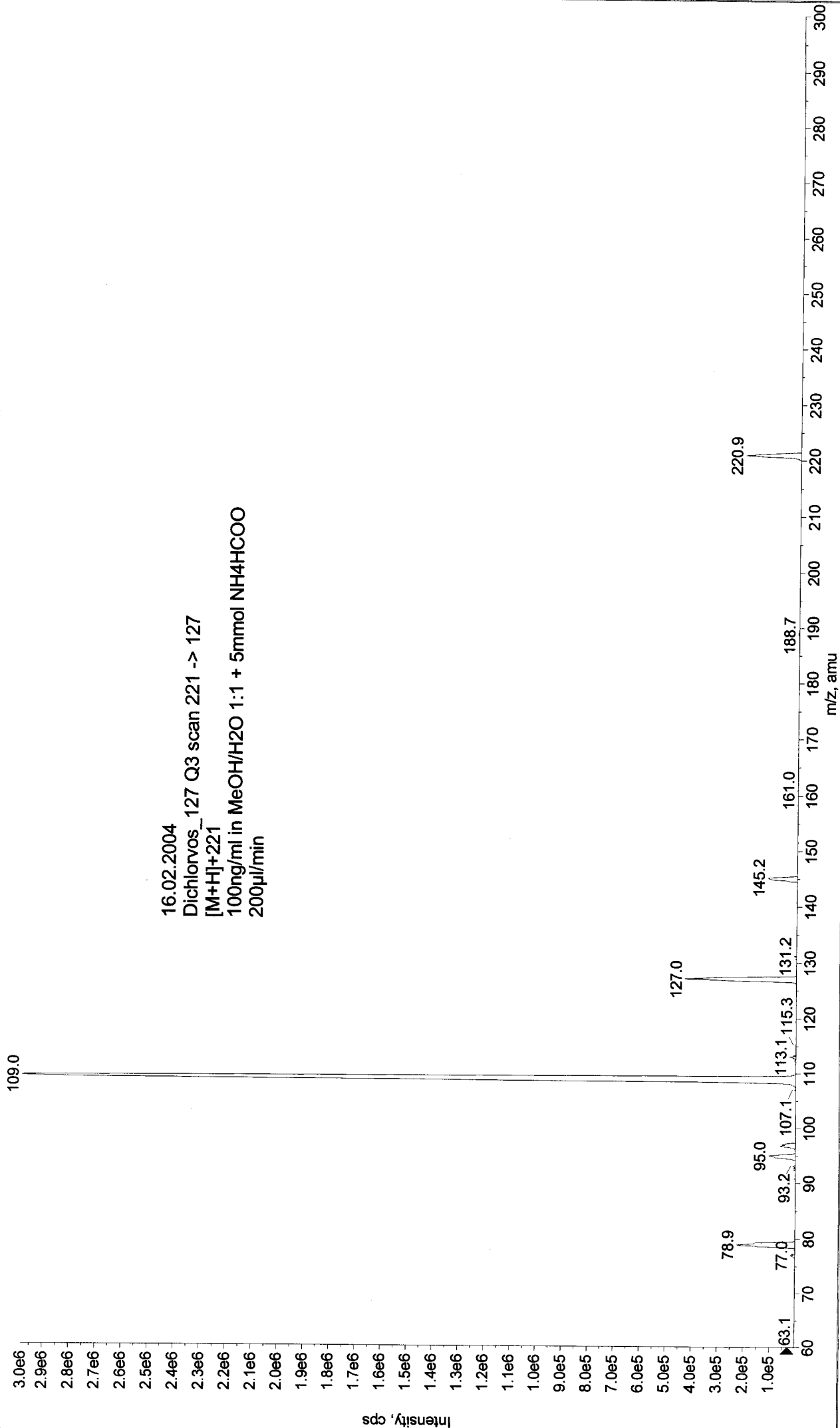
+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20040216100733.wiff (Turbo Spray)

Max. 3.7e7 cps



+MS2 (221.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20040216103305.wiff (Turbo Spray)

Max. 3.0e6 cps.



16.02.2004
Dichlorvos_127 Q3 scan 221 -> 127
[M+H]⁺221
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄HCOO
200µl/min

Max. 2.9e6 cps.
+MS2 (221.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20040216101301.wiff (Turbo Spray)

