

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

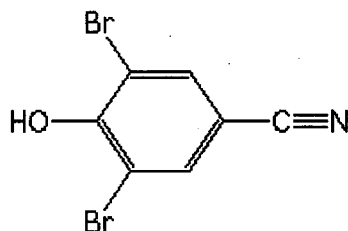
Analyte: Bromoxynil

CAS No.: 1689-84-5

Formula: C₇H₃Br₂NO

Molecular mass (lowest isotopes): 274,86 amu

Structure:



Ionisation: ESI -

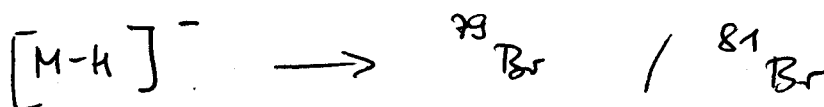
Quasimolecular ion: 273,9 amu = [M-H]⁻

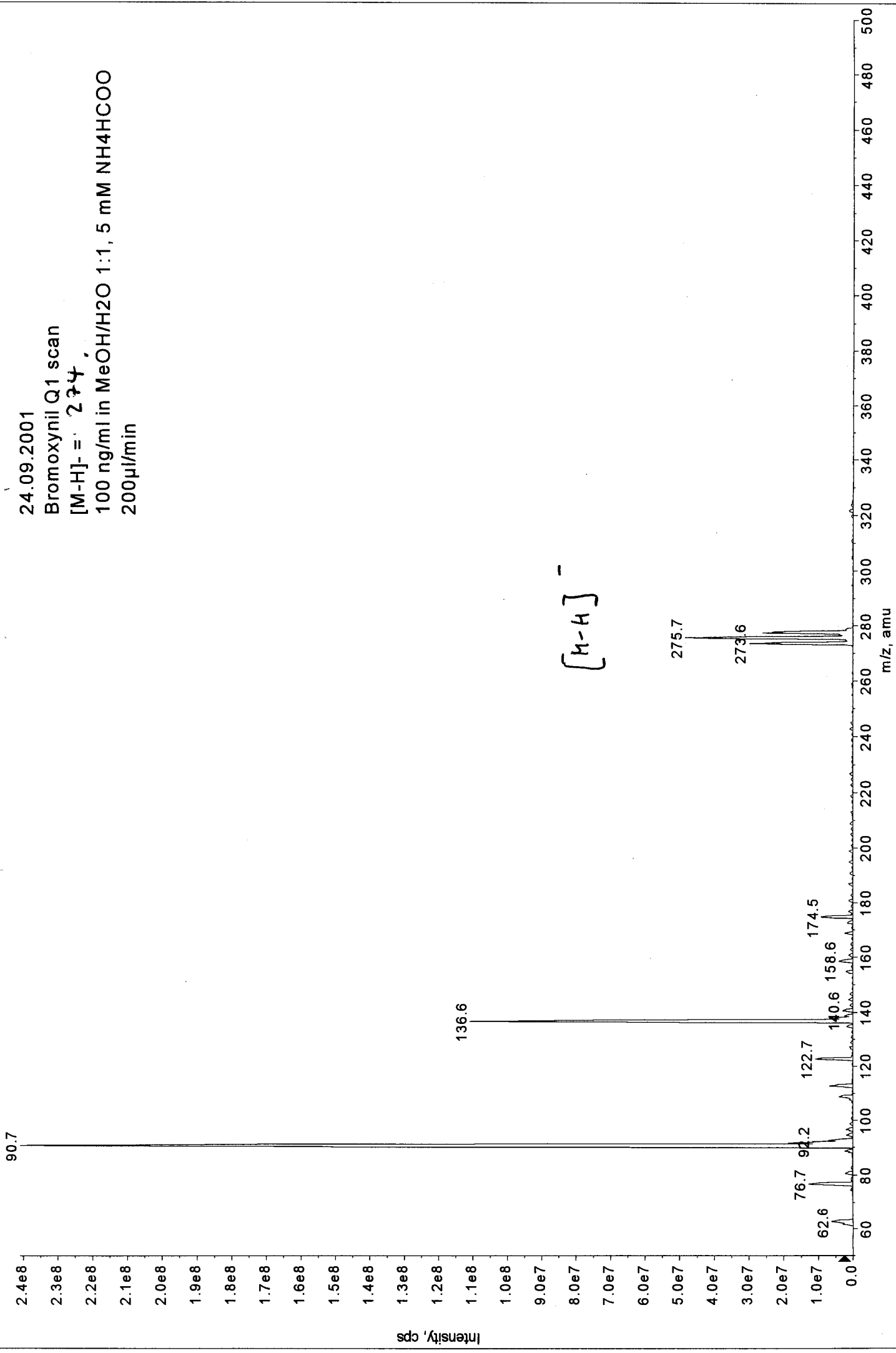
Analyte sensitive parameter set (API 2000)

Transition	273,9 → 79,0	277,9 → 80,9
Declustering potential (DP)*)	-51V	-51 V
Focusing potential (FP)	-340 V	-350 V
Entrance potential (EP)	-9,5 V	9,5 V
Collision cell entrance potential (CEP)	-24 V	-22 V
Collision energy (CE)	-36 V	-40 V
Collision cell exit potential (CXP)	-14 V	-12 V

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

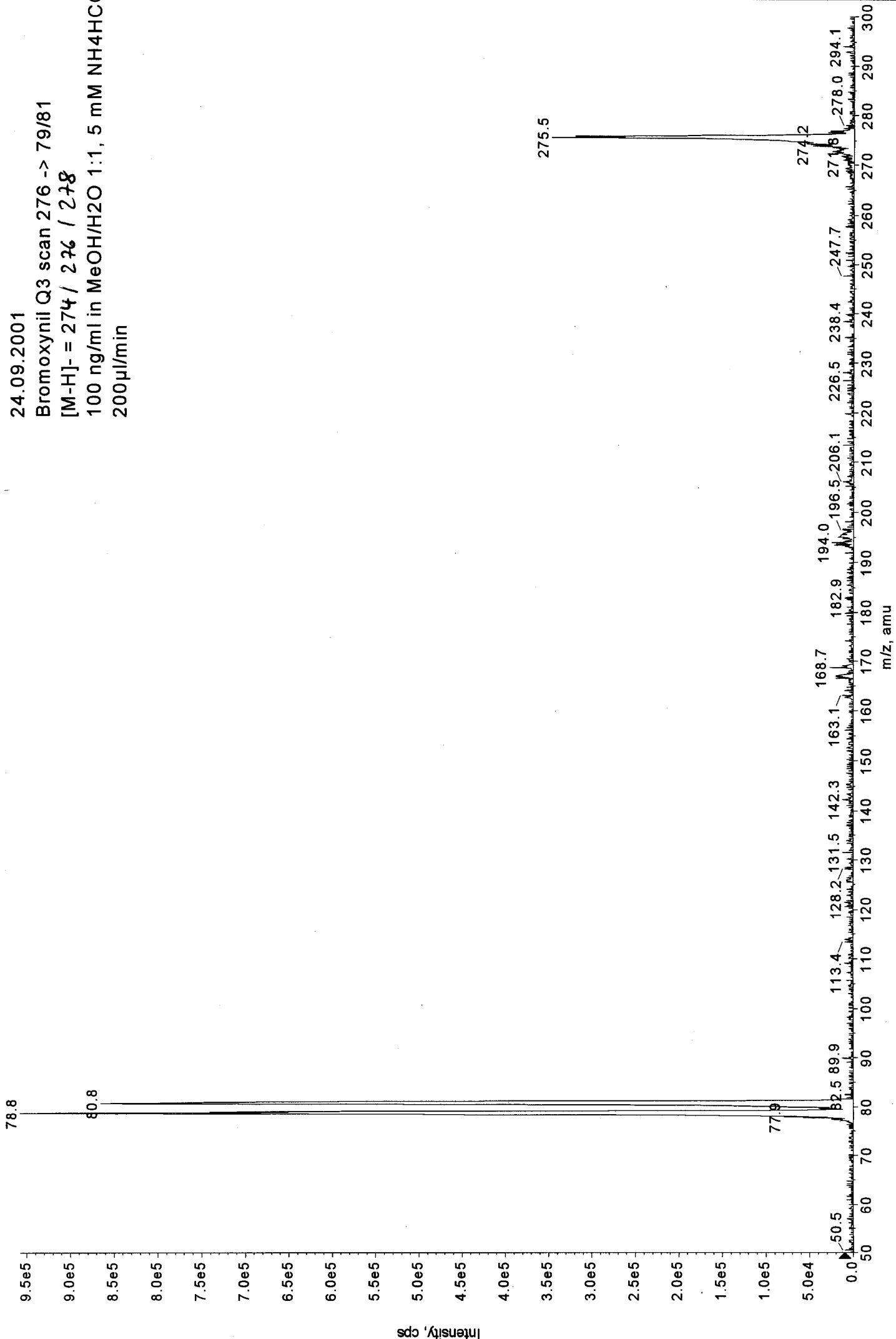
Fragmentation



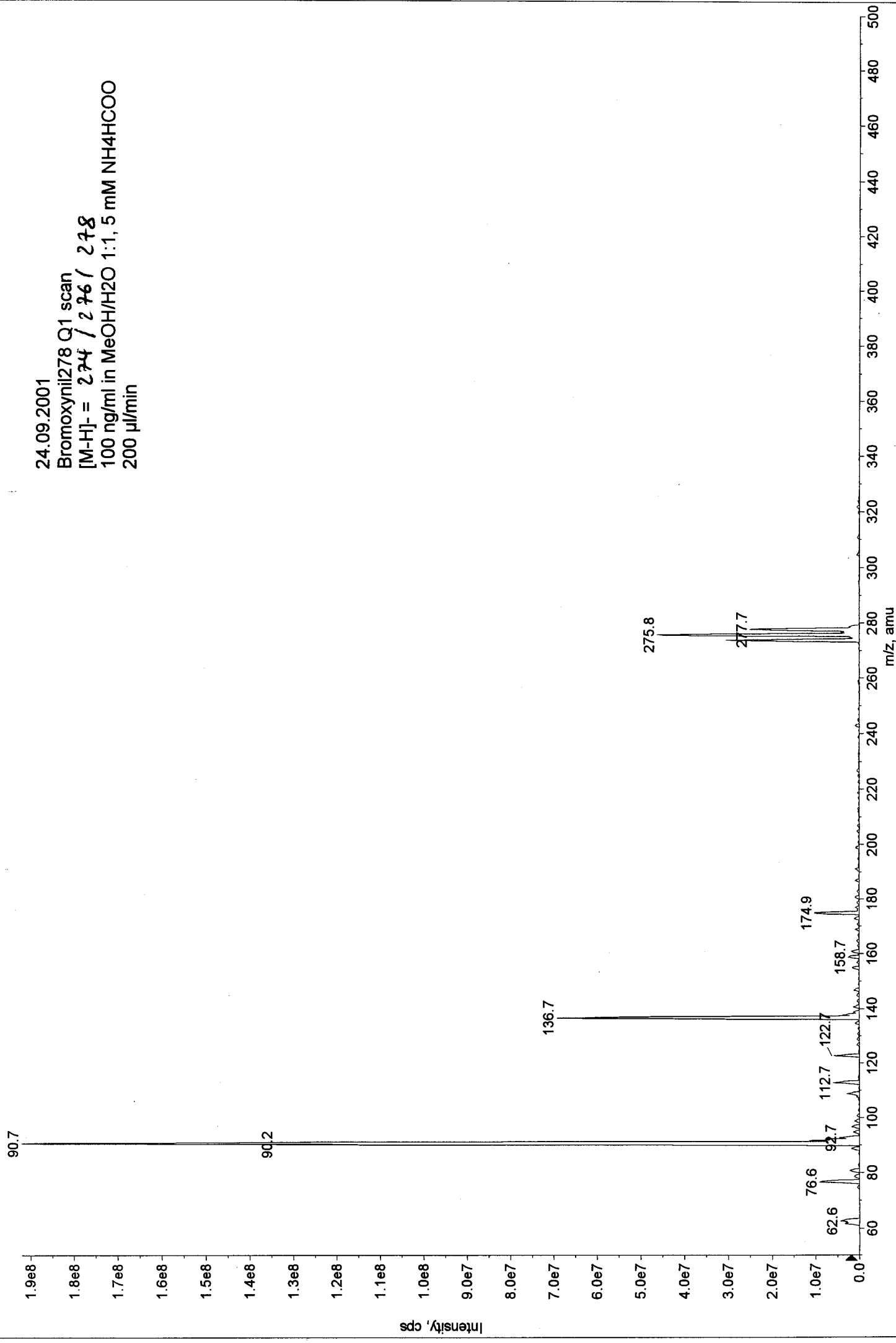


24.09.2001
Bromoxynil Q1 scan
[M-H]⁻ = 274
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 μl/min

24.09.2001
Bromoxynil Q3 scan 276 -> 79/81
[M-H]⁻ = 274 / 276 / 278
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCO₃
200 µl/min



24.09.2001
Bromoxynil278 Q1 scan
[M-H]⁻ = 274 / 276 / 278
100 ng/ml in MeOH/H₂O 1:1, 5 mM NH₄HCOO
200 µl/min



24.09.2001
Bromoxynil278 Q3 scan 278 -> 81
[M-H]⁻ = 278
100 ng/ml in MeOH/H₂O 1:1, 5mM NH₄HCOO
200 µl/min

