

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

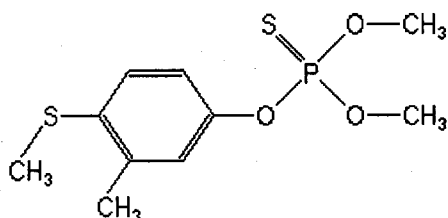
Analyte: Fenthion

CAS No.: 55-38-9

Formula: C₁₀H₁₅O₃PS₂

Molecular mass (lowest isotopes): 278,02 amu

Structure:



Ionisation: ESI +

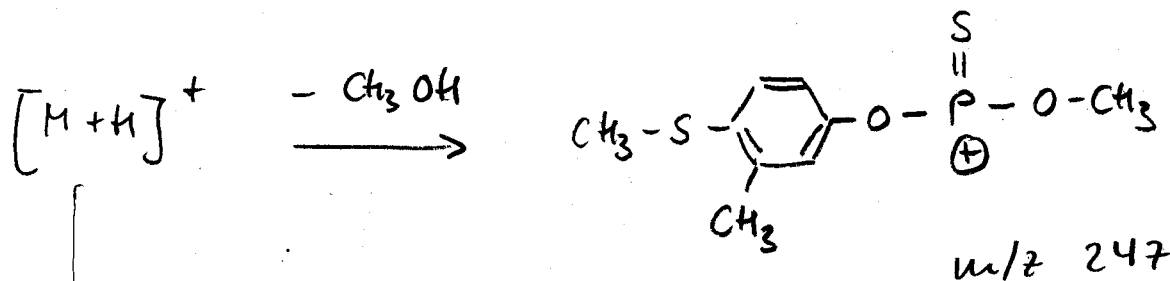
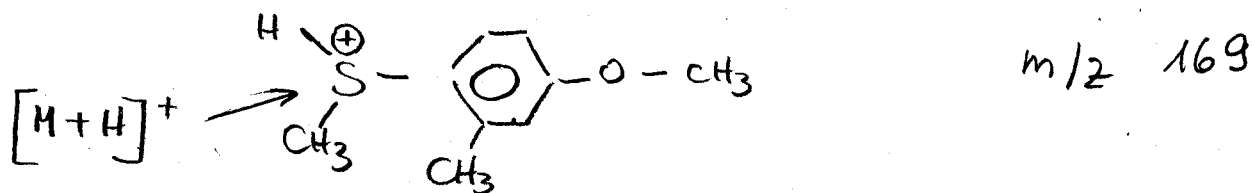
Quasimolecular ion: 279,1 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

Transition	279,1 → 169,1	279,1 → 247,1
Declustering potential (DP) ^{*)}	31 V	31 V
Focusing potential (FP)	370 V	340 V
Entrance potential (EP)	12,0 V	10,5 V
Collision cell entrance potential (CEP)	16 V	16 V
Collision energy (CE)	23 V	17 V
Collision cell exit potential (CXP)	8 V	14 V

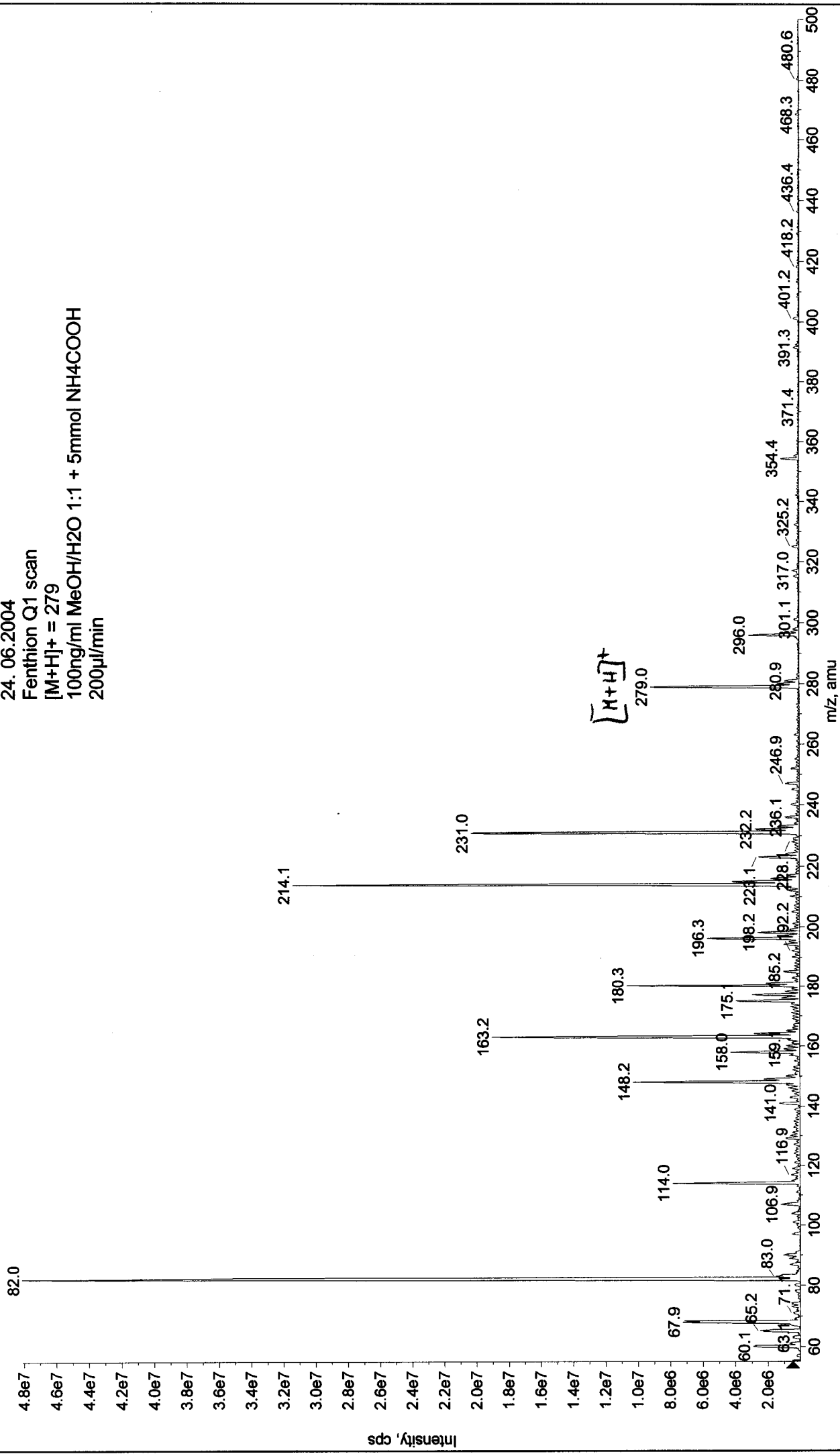
^{*)} For API 3000 and 4000 enhance DP by 20V

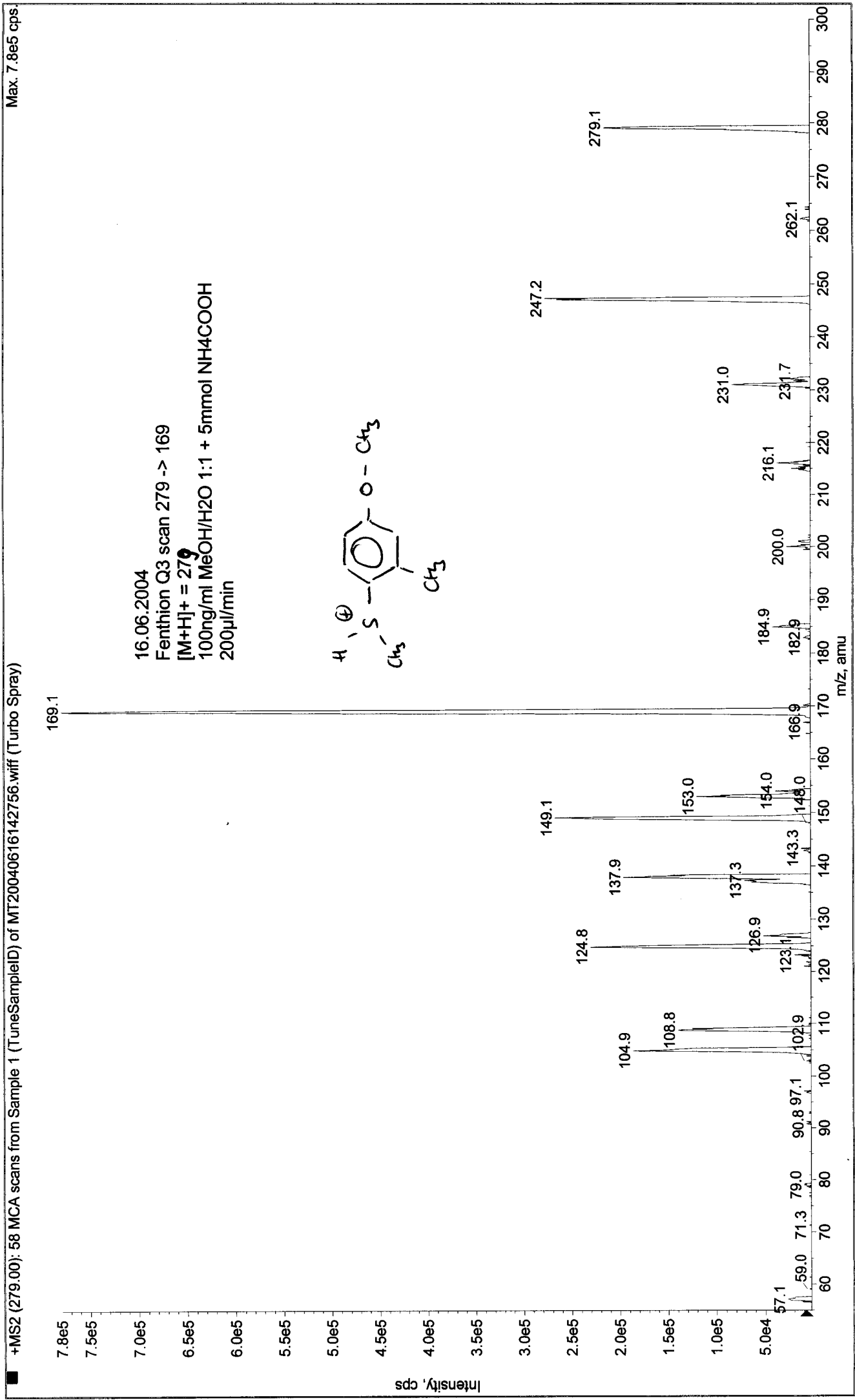
Fragmentation

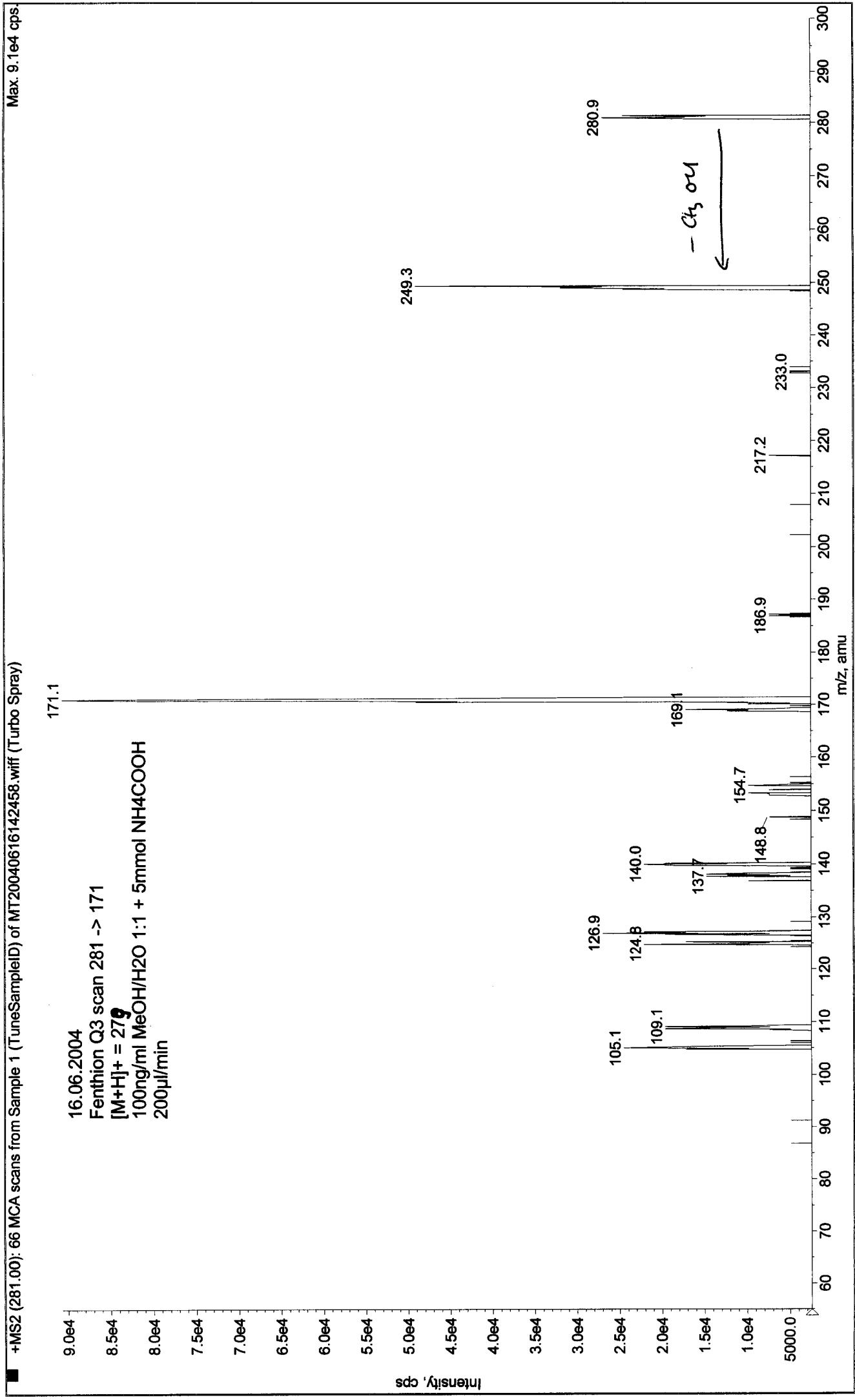


■ +Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20040624135904.wiff (Turbo Spray) Max. 4.8e7 cps.

24. 06.2004
Fenthion Q1 scan
[M+H]⁺ = 279
100ng/ml MeOH/H₂O 1:1 + 5mmol NH₄COOH
200µl/min







+MS2 (279.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20040624141826.wiff (Turbo Spray) Max. 7.5e5 cps.

24. 06.2004
Fenthion_247 Q3 scan 279 -> 247
[M+H]⁺ = 279
100ng/ml MeOH/H₂O 1:1 + 5mmol NH₄COOH
200µl/min

