

MS/MS Parameters of Pesticides

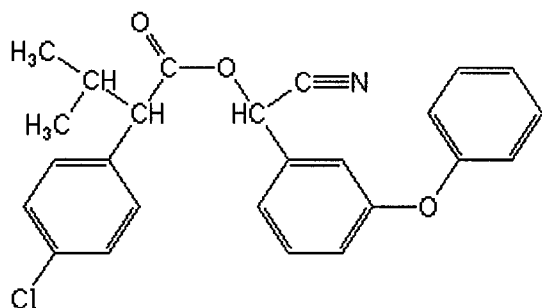
Analyte: Fenvalerate

CAS No.: 51630-58-1

Formula: C₂₅H₂₂ClNO₃

Exact molecular mass (lowest isotopes): 419,13 amu

Structure:



Ionisation: ESI +

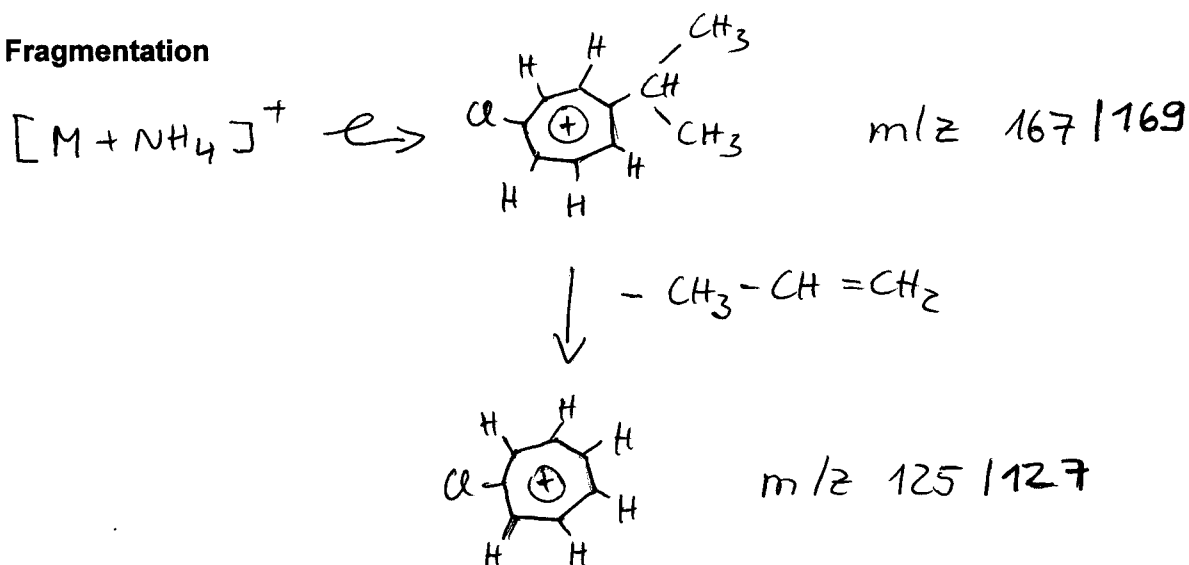
Quasimolecular ion: 437,1 amu = [M+NH₄]⁺

Analyte sensitive parameter set (API 2000)

Transition	437,1 → 167,0	437,1 → 125,0
Declustering potential (DP) ^{*)}	36V	36 V
Focusing potential (FP)	360 V	340 V
Entrance potential (EP)	10,0 V	9,0 V
Collision cell entrance potential (CEP)	20 V	22 V
Collision energy (CE)	23 V	57 V
Collision cell exit potential (CXP)	10 V	6 V

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

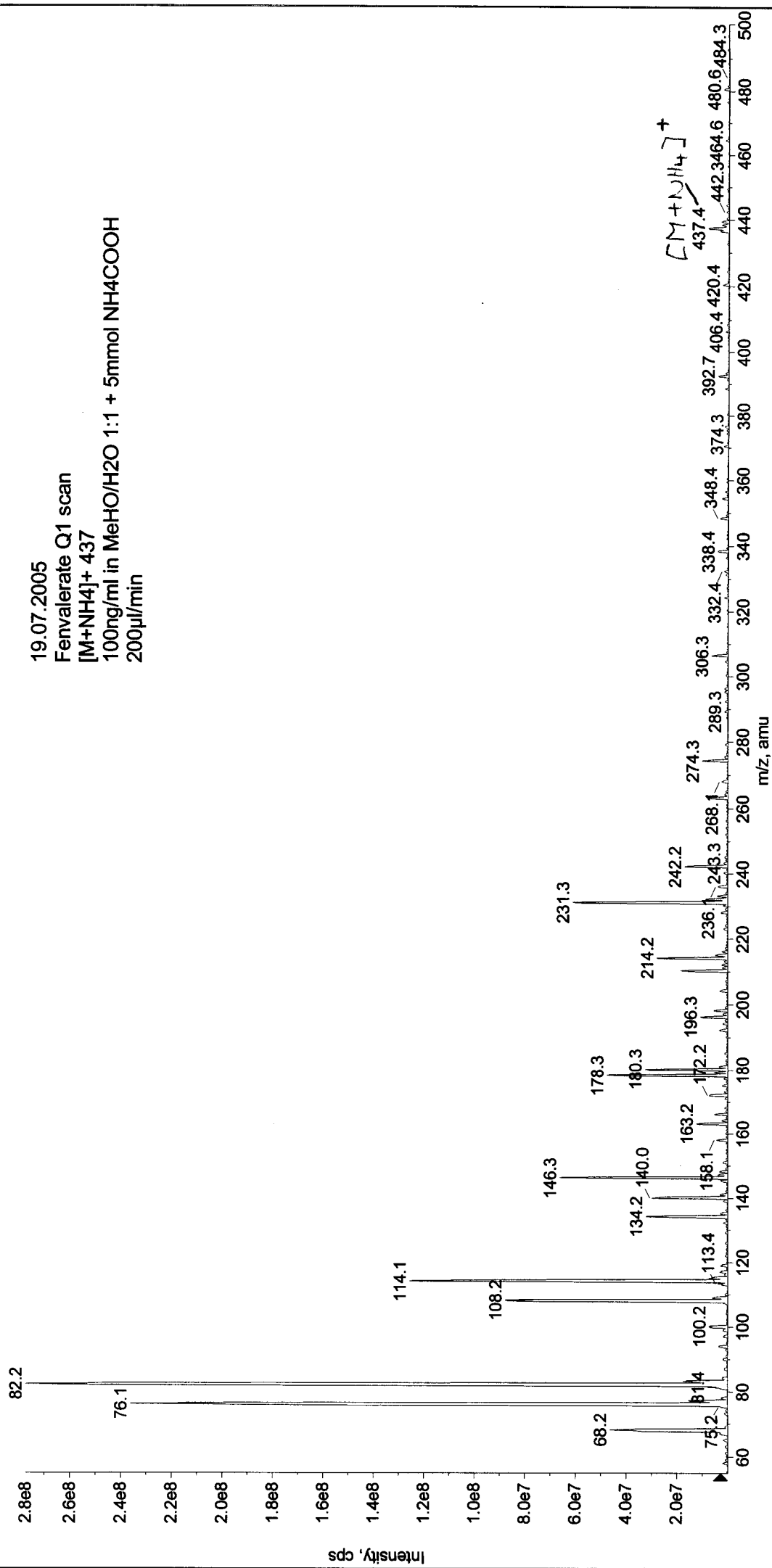
Fragmentation



+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20050719114737.wiff (Turbo Spray)

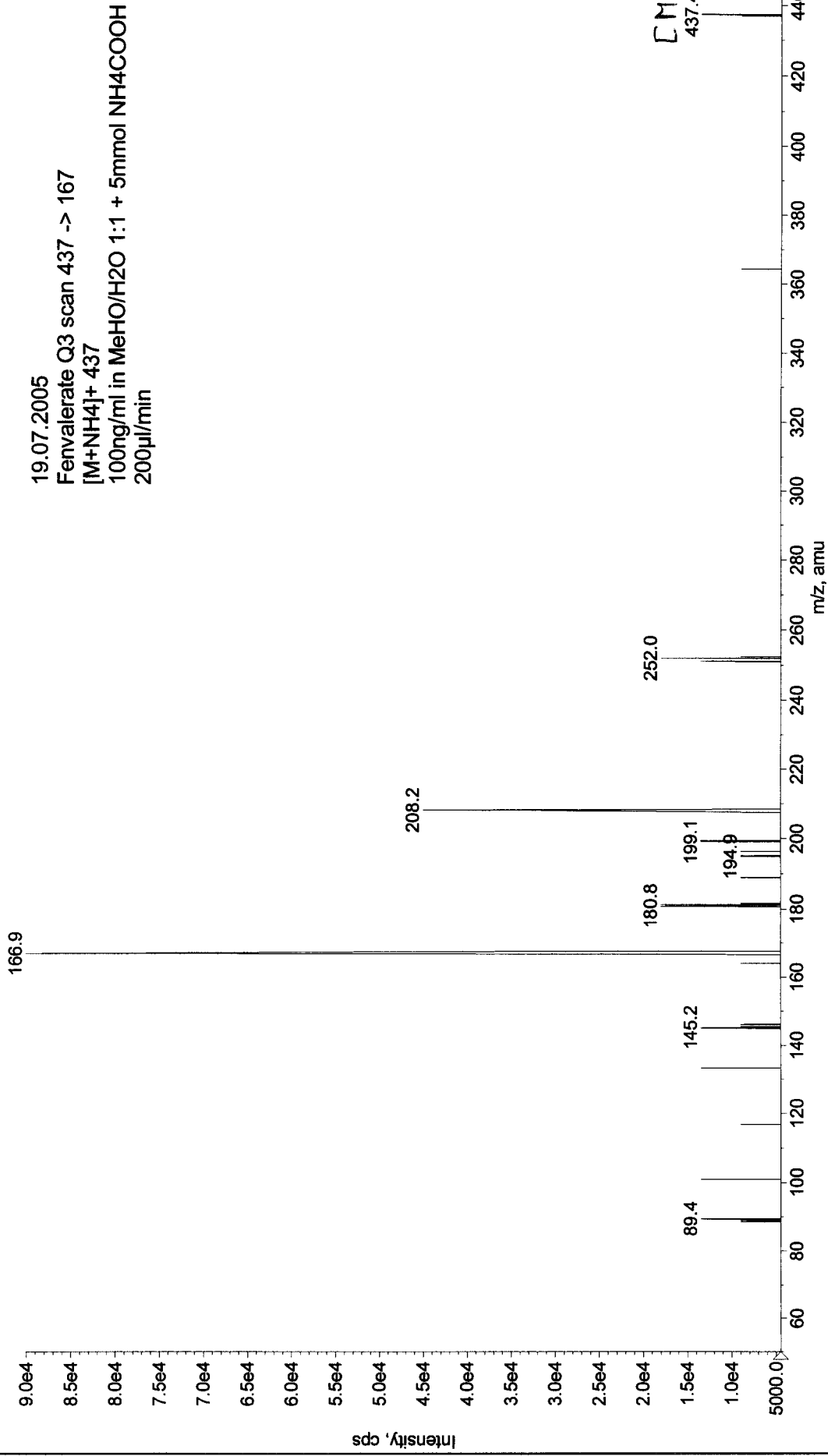
Max. 2.8e8 cps

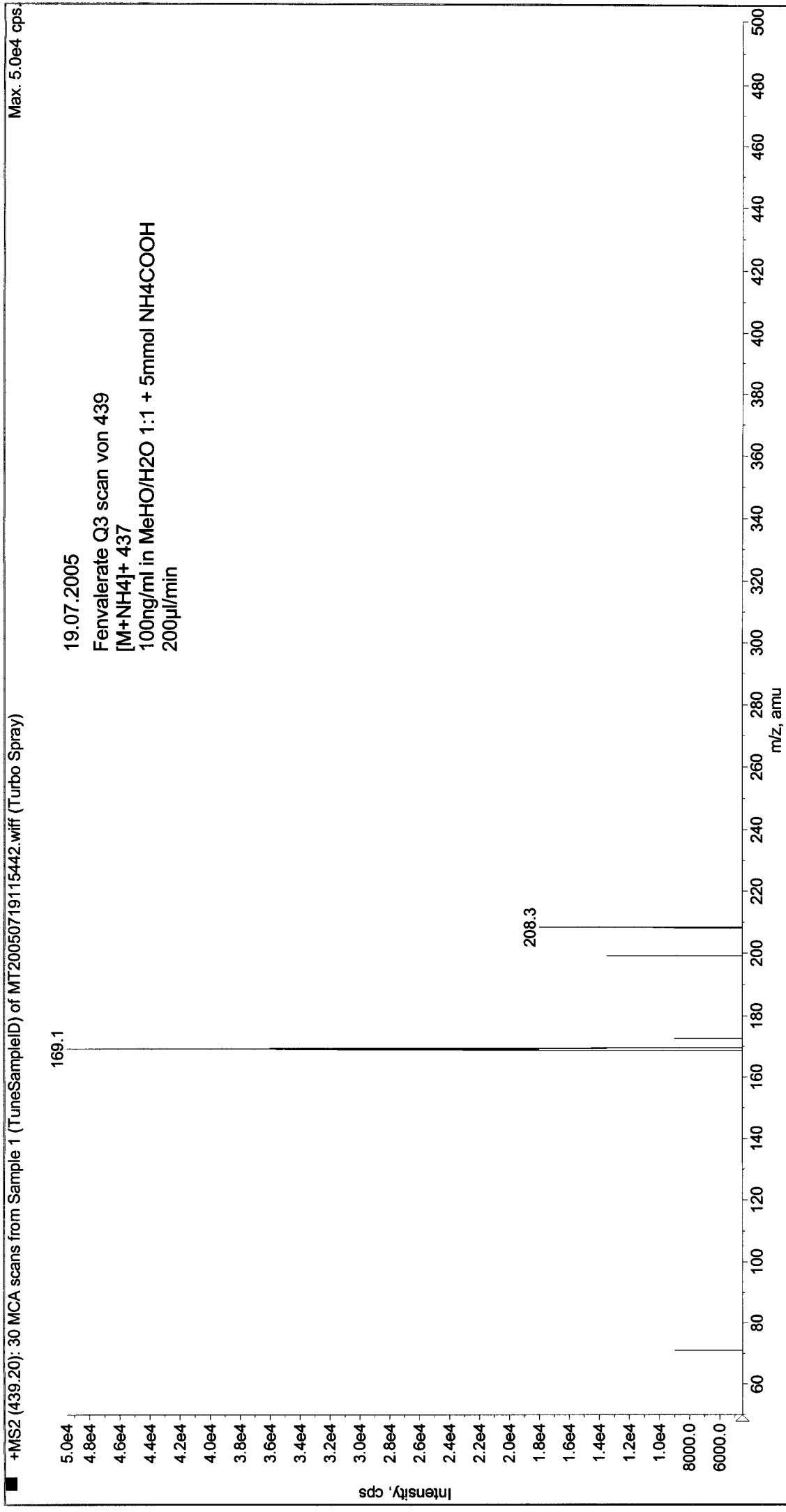
19.07.2005
Fenvalerate Q1 scan
[M+NH4]⁺ 437
100ng/ml in MeHO/H₂O 1:1 + 5mmol NH₄COOH
200µl/min



+MS2 (437.30): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050719115215.wiff (Turbo Spray)

Max. 9.0e4 cps





■ +MS2 (437.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050719115801.wiff (Turbo Spray)

Max. 6.7e4 cps



