

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

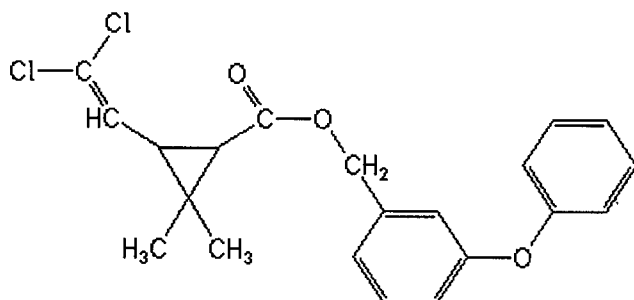
Analyte: Permethrin

CAS No.: 52645-53-1

Formula: C₂₁H₂₀Cl₂O₃

Molecular mass (lowest isotopes): 390,08 amu

Structure:



Ionisation: ESI +

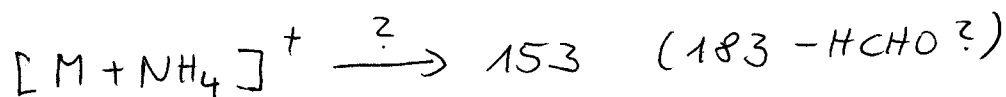
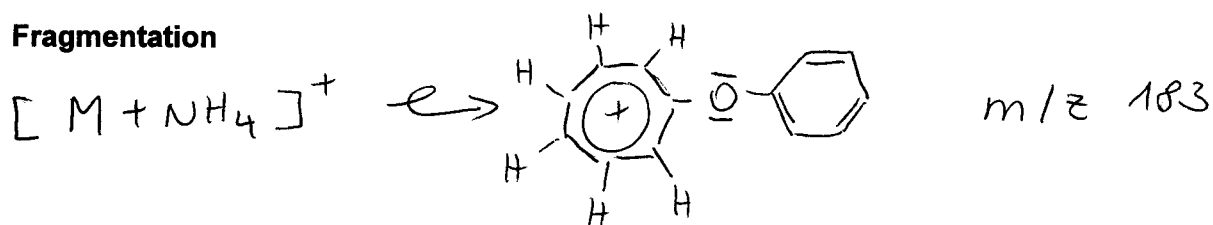
Quasimolecular ion: 408,1 amu = [M+NH₄]⁺

Analyte sensitive parameter set (API 2000)

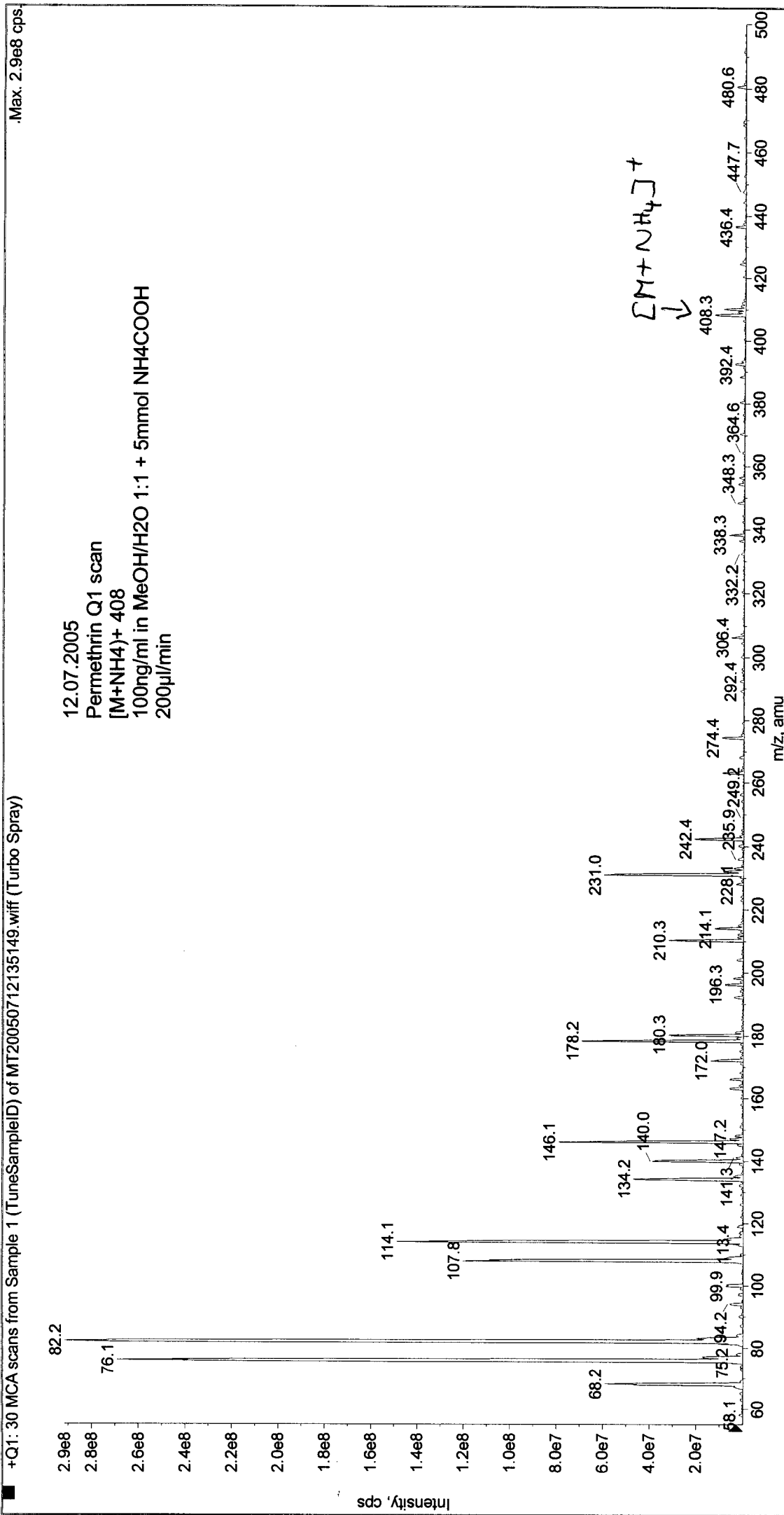
Transition	408,1 → 183,1	408,1 → 153,1
Declustering potential (DP) ^{*)}	36V	36 V
Focusing potential (FP)	350 V	370 V
Entrance potential (EP)	7,5 V	8,5 V
Collision cell entrance potential (CEP)	22 V	20 V
Collision energy (CE)	25 V	63 V
Collision cell exit potential (CXP)	10 V	8 V

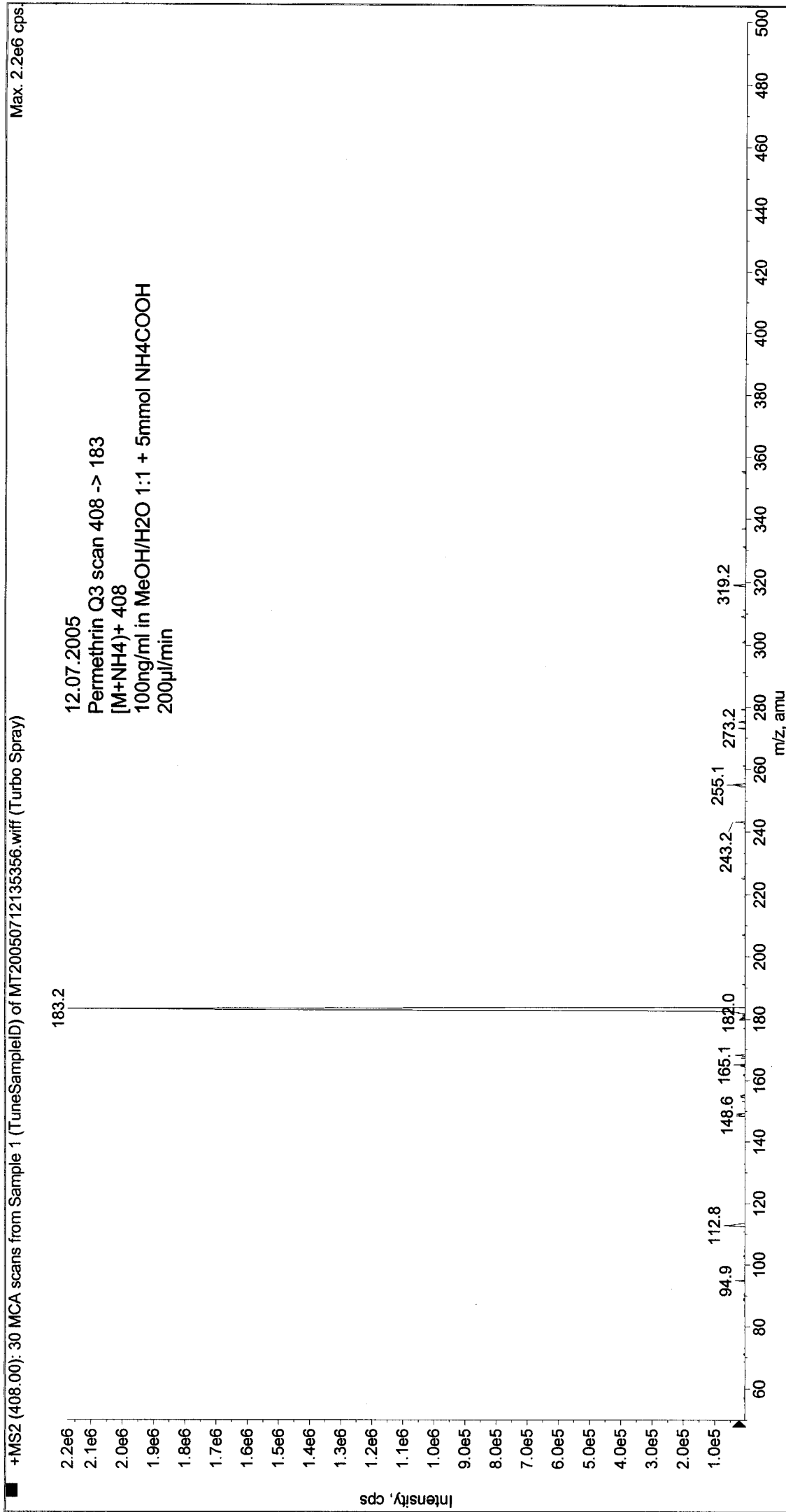
^{*)} For API 3000 and 4000 enhance DP by 20V

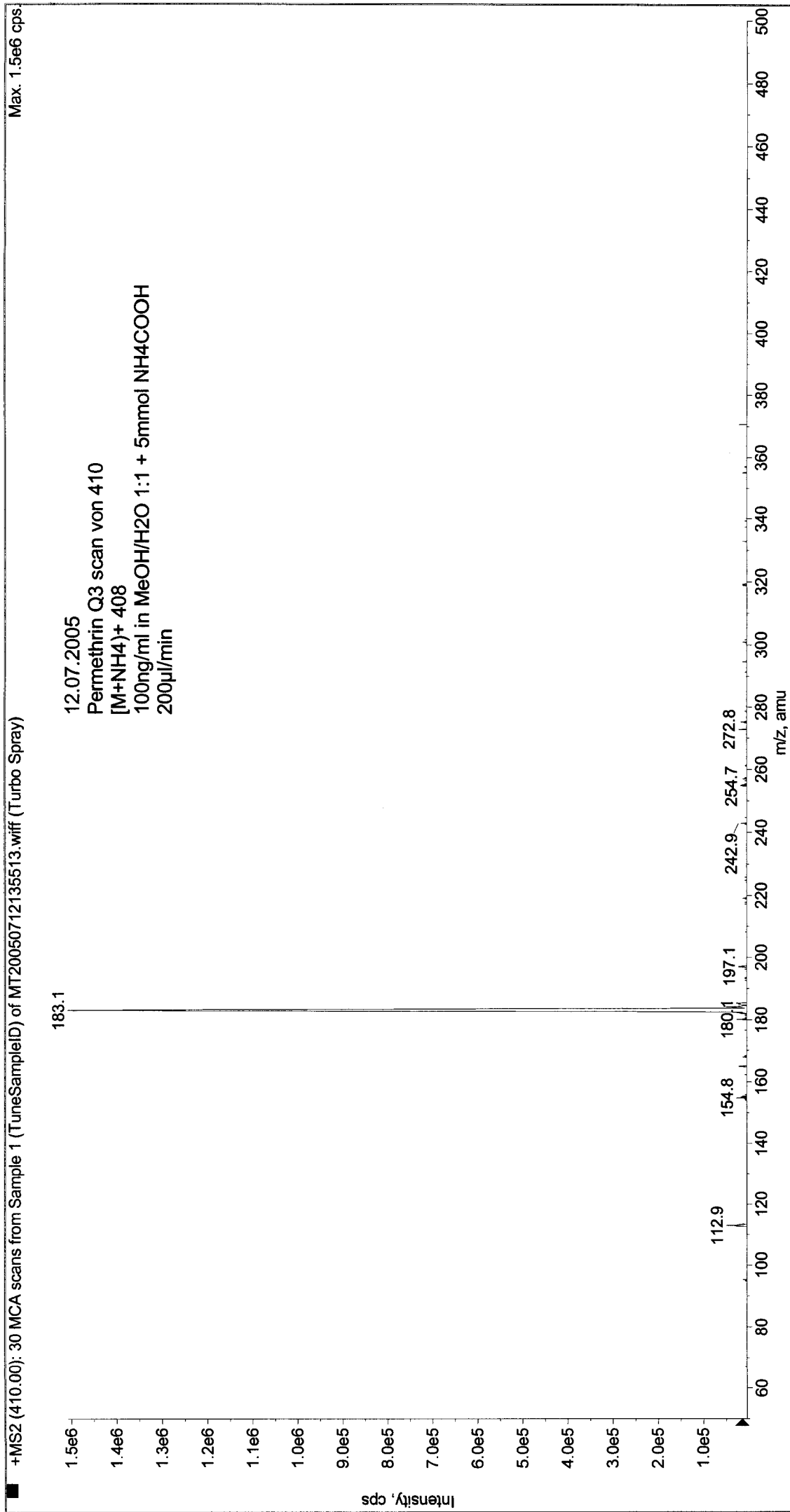
Fragmentation



+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20050712135149.wiff (Turbo Spray)

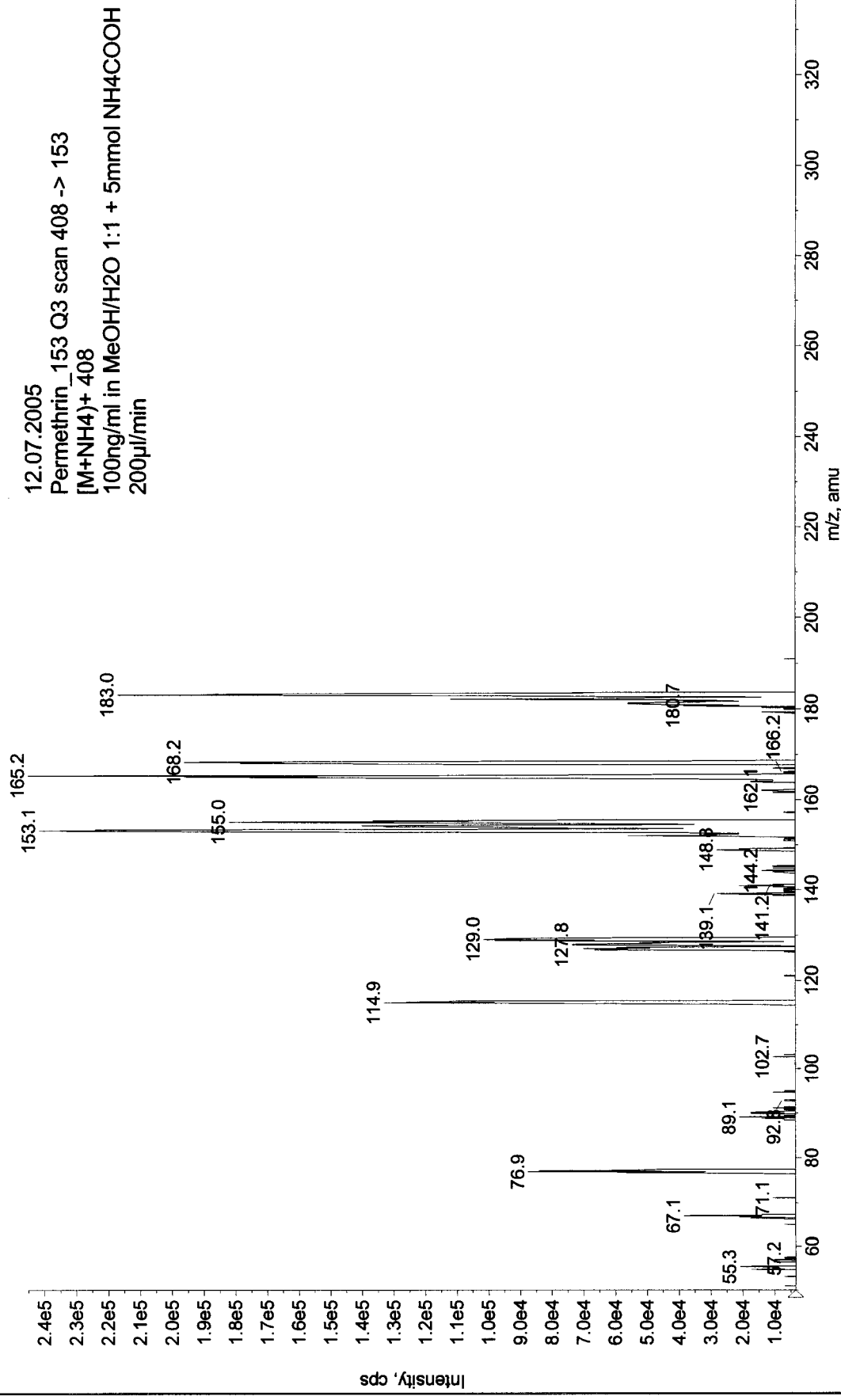






■ +MS2 (408.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050712135830.wiff (Turbo Spray)

Max. 2.5e5 cps



+MS2 (410.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050712140006.wiff (Turbo Spray)

Max. 1.5e5 cps

