

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

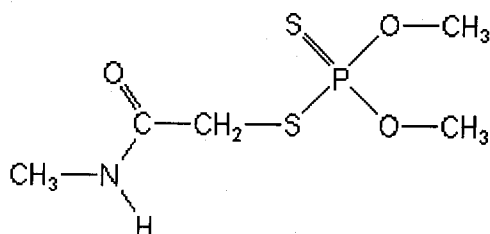
Analyte: Dimethoate

CAS No.: 60-51-5

Formula: C₅H₁₂NO₃PS₂

Molecular mass (lowest isotopes): 229,00 amu

Structure:



Ionisation: ESI +

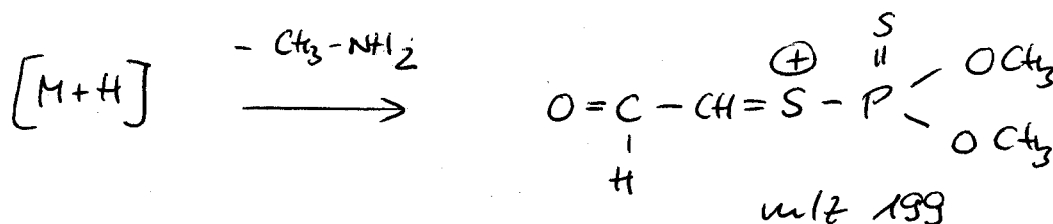
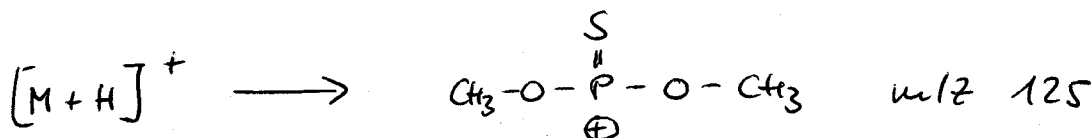
Quasimolecular ion: 230,0 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

Transition	230,0 → 125,0	230,0 → 198,8
Declustering potential (DP) ^{*)}	14 V	14 V
Focusing potential (FP)	360 V	350 V
Entrance potential (EP)	10,0 V	10,0 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	29 V	13 V
Collision cell exit potential (CXP)	6 V	10 V

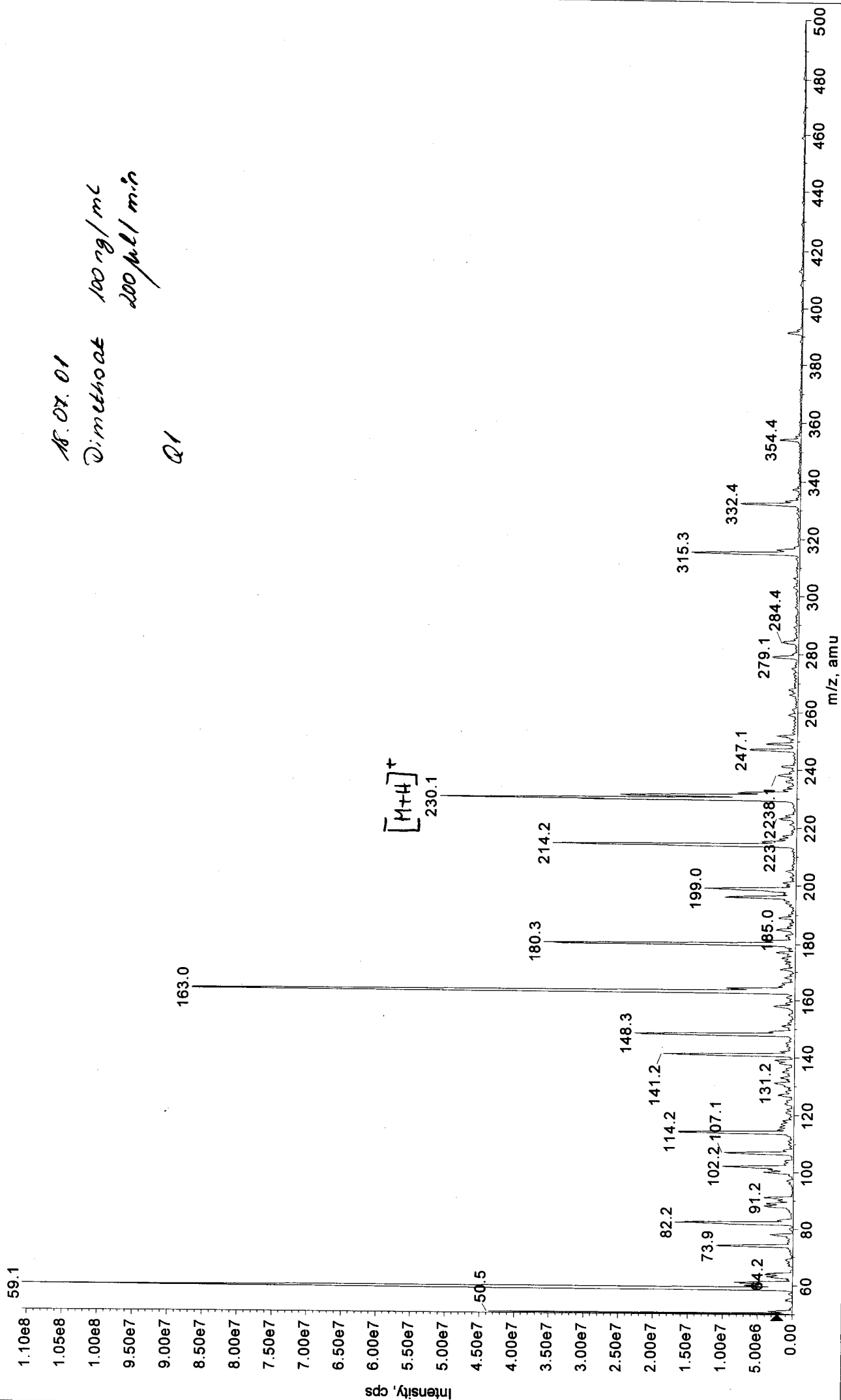
^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation

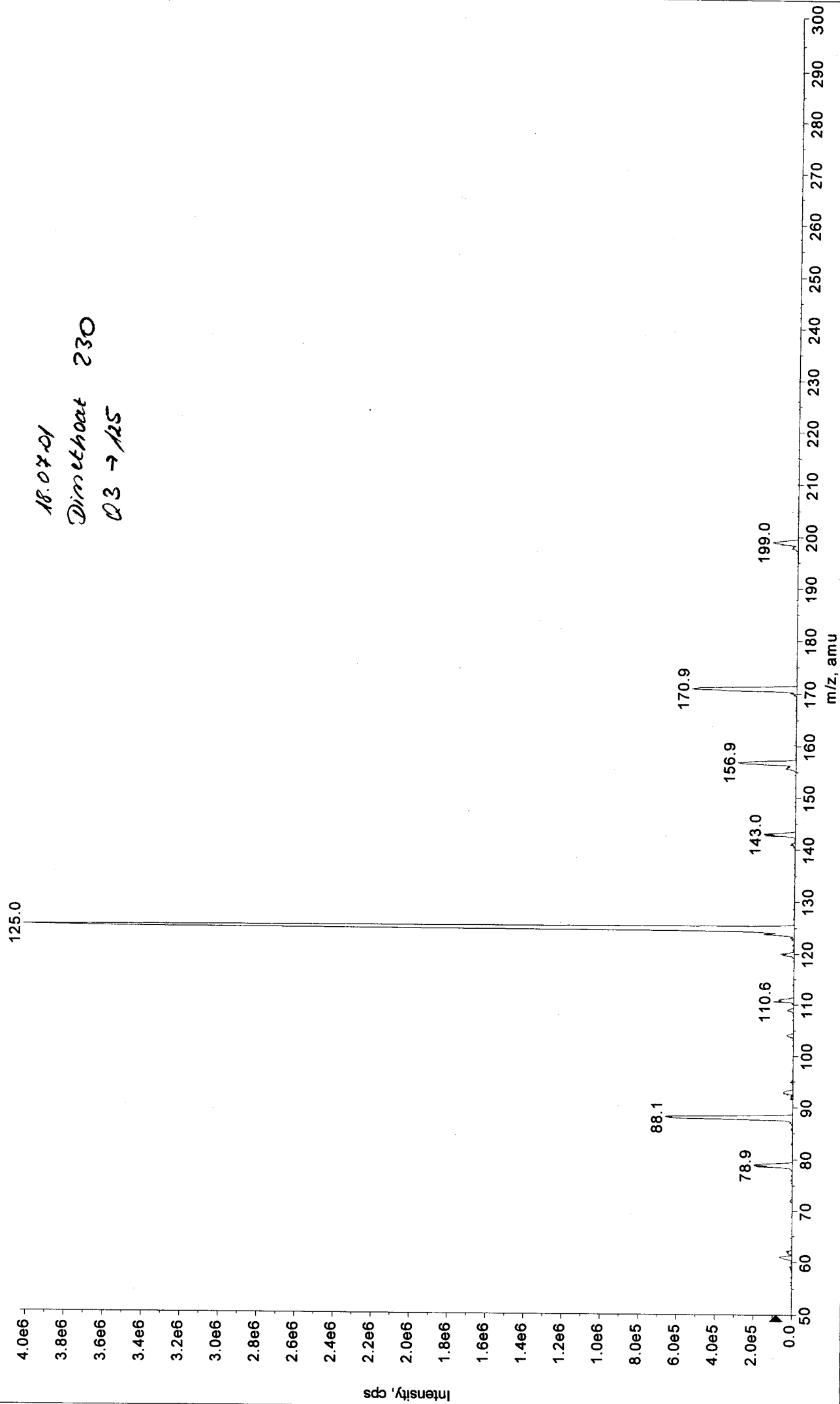


18.07.01
Dimethoate 100 ng/ml
200 µl/min

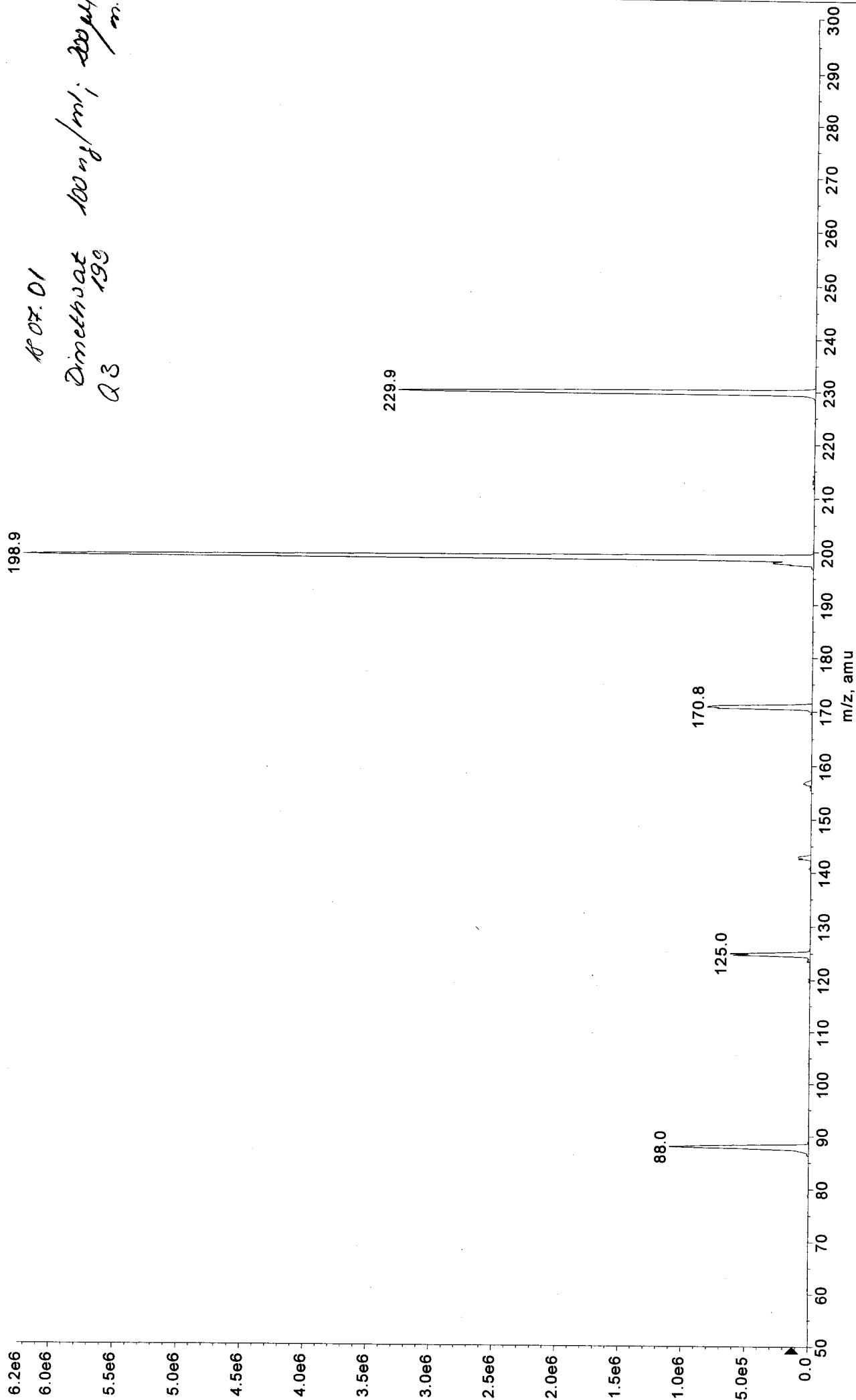
Q1



18.07.01
Dimethoat 230
Q3 → 125



Intensity, cps



807.01

Dimethylsulfate 100 ng/ml; 200 µl/min

Q3