

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

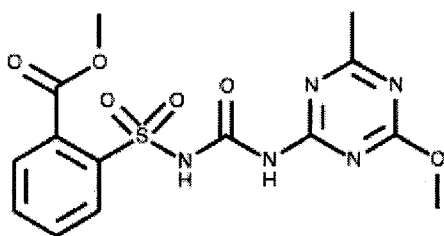
Analyte: Metsulfuron-methyl

CAS No.: 74223-64-6

Formula: C₁₄H₁₅N₅O₆S

Molecular mass (lowest isotopes): 381,07 amu

Structure:



Ionisation: ESI +

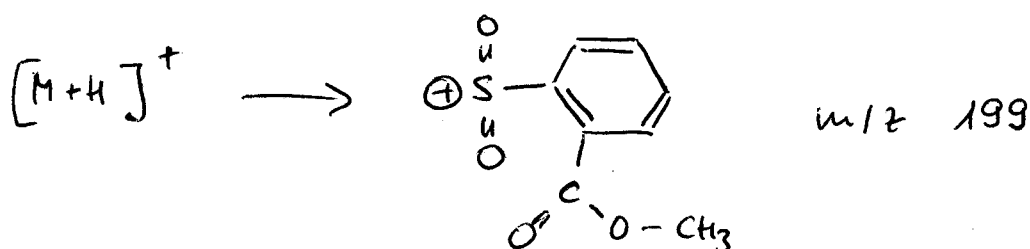
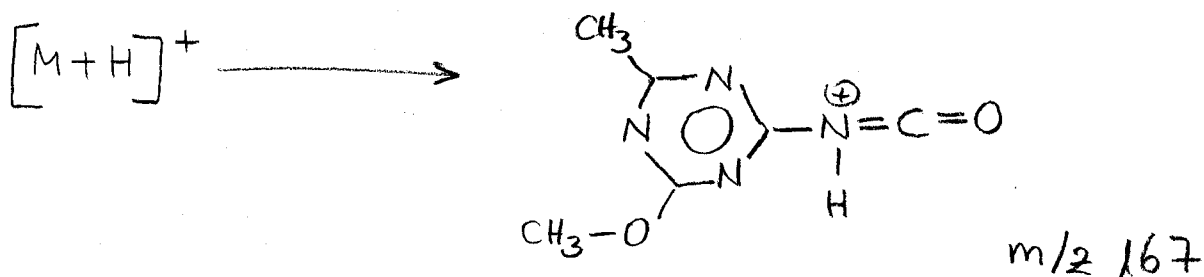
Quasimolecular ion: 382,1 amu = [M+H]⁺

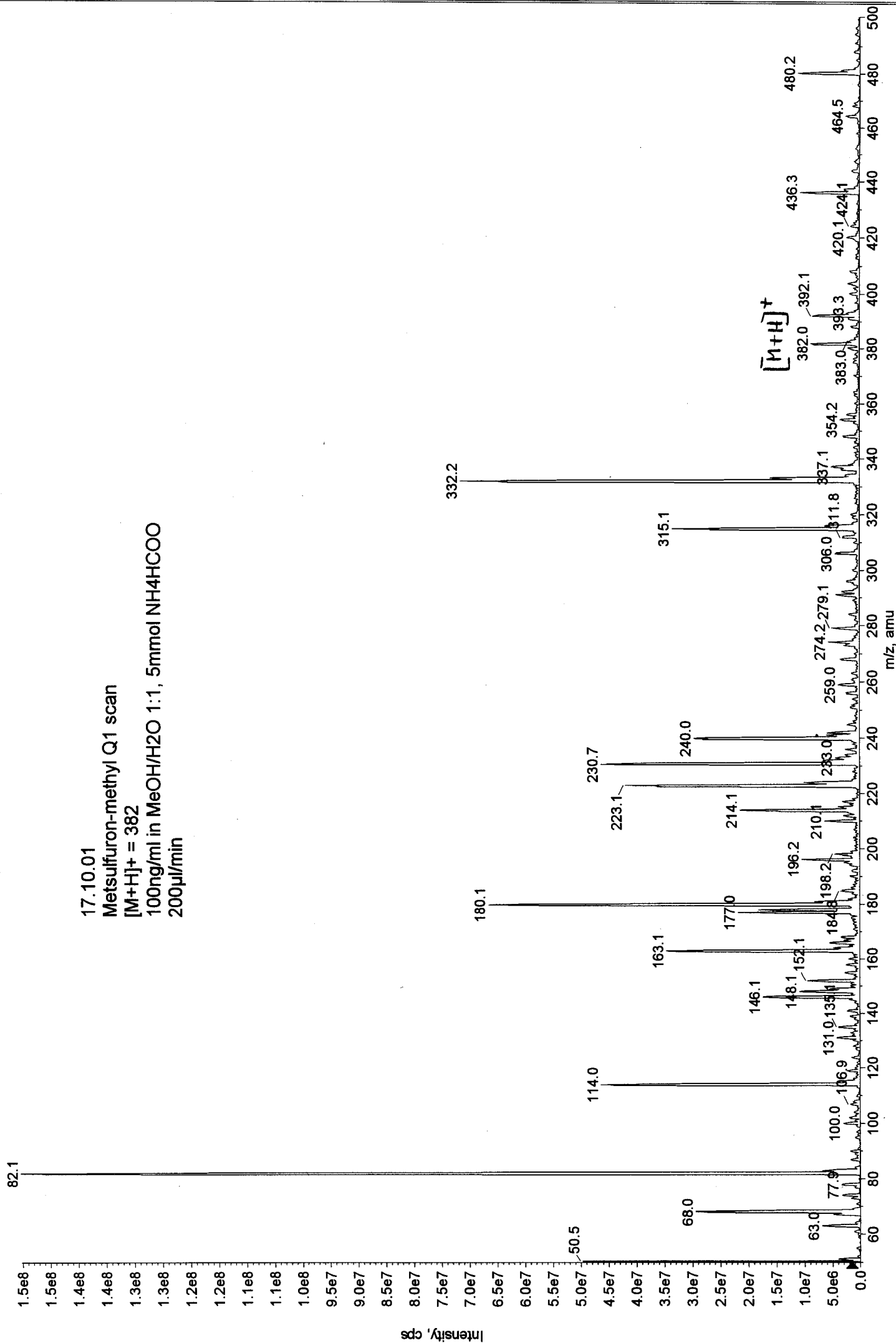
Analyte sensitive parameter set (API 2000)

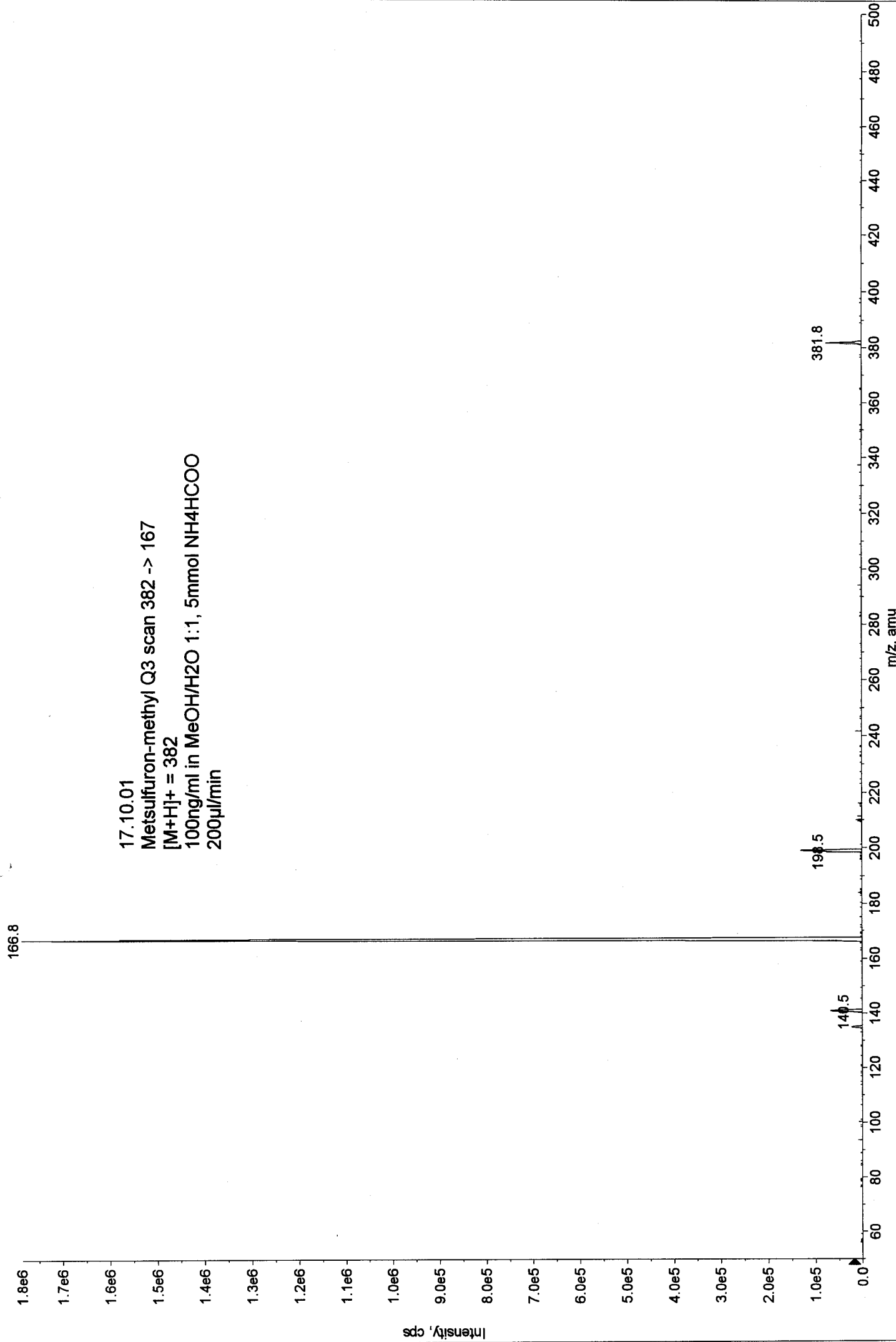
| Transition | 382,1 → 198,9 | 382,1 → 167,0 |
|---|---------------|---------------|
| Declustering potential (DP) ^{*)} | 34 V | 34 V |
| Focusing potential (FP) | 360 V | 340 V |
| Entrance potential (EP) | 10,5 V | 12,0 V |
| Collision cell entrance potential (CEP) | 22 V | 22 V |
| Collision energy (CE) | 27 V | 21 V |
| Collision cell exit potential (CXP) | 10 V | 8 V |

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

Fragmentation







17.10.01
Metsulfuron-methyl Q3 scan 382 -> 167
[M+H]⁺ = 382
100ng/ml in MeOH/H₂O 1:1, 5mmol NH₄HCOO
200µl/min

