

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

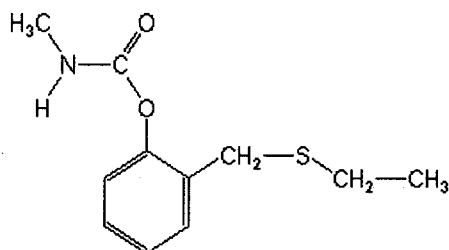
### Analyte: Ethiofencarb

CAS No.: 29973-13-5

Formula: C<sub>11</sub>H<sub>15</sub>NO<sub>2</sub>S

Molecular mass (lowest isotopes): 225,08 amu

Structure:



Ionisation: ESI +

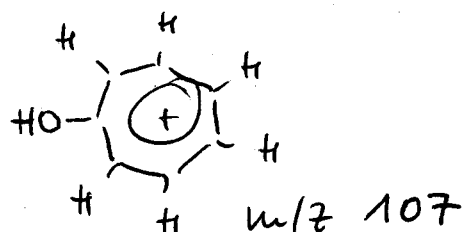
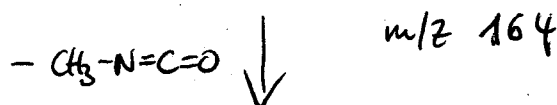
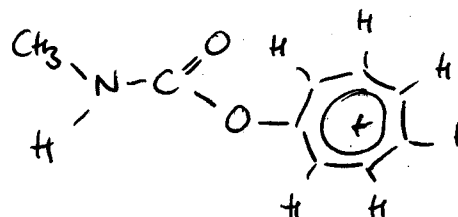
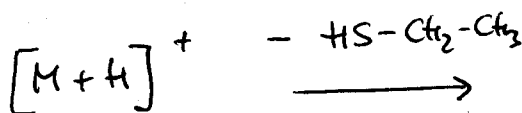
Quasimolecular ion: 226,1 amu = [M+H]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

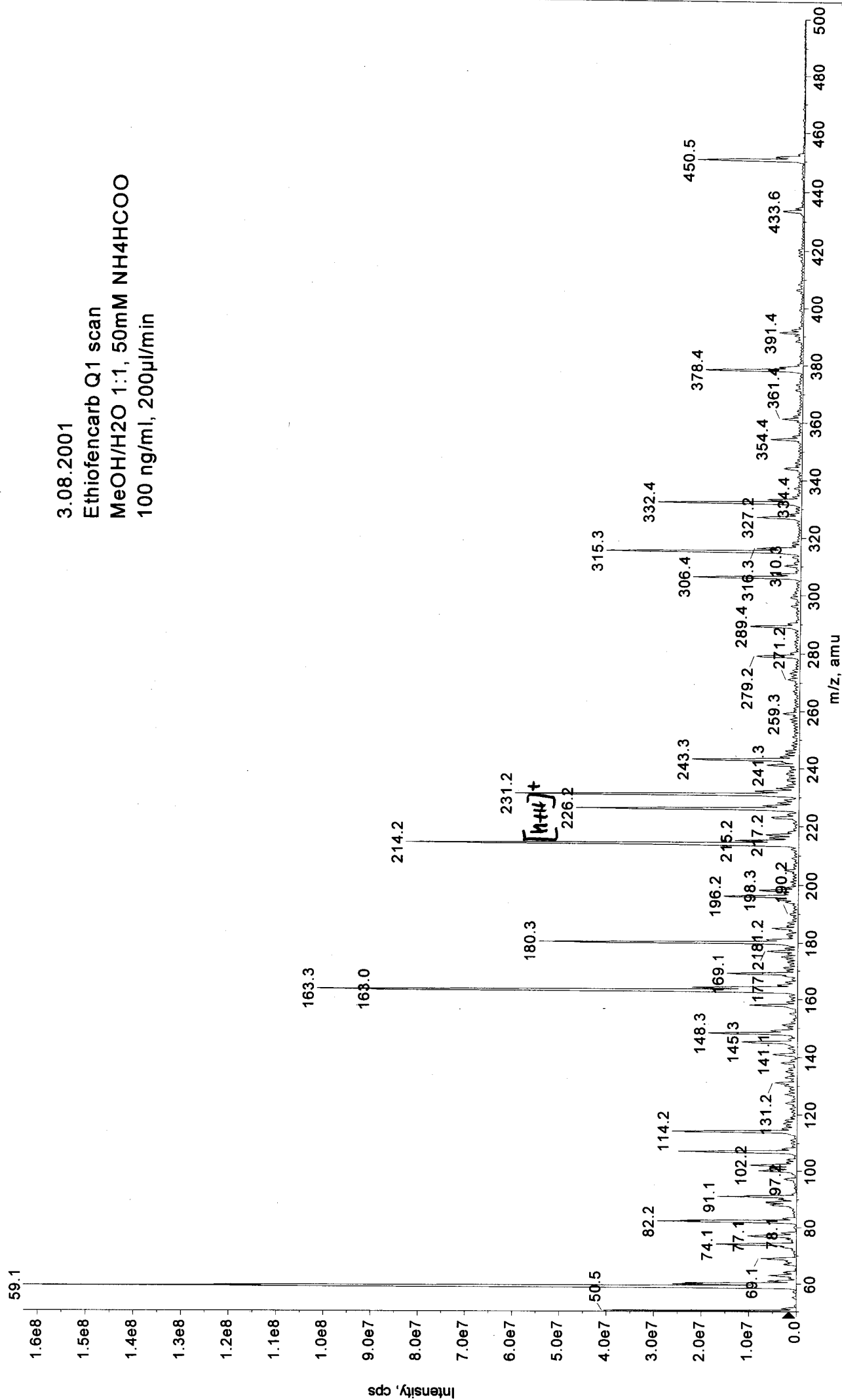
Transition	226,1 → 107,2	226,1 → 164,0
Declustering potential (DP) <sup>*)</sup>	14 V	14 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	9,5 V	9,0 V
Collision cell entrance potential (CEP)	12 V	20 V
Collision energy (CE)	21 V	13 V
Collision cell exit potential (CXP)	4 V	8 V

<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation



3.08.2001  
Ethiofencarb Q1 scan  
MeOH/H<sub>2</sub>O 1:1, 50mM NH<sub>4</sub>HCOO  
100 ng/ml, 200µl/min



107.1

Intensity, cps

9.0e6  
8.5e6  
8.0e6  
7.5e6  
7.0e6  
6.5e6  
6.0e6  
5.5e6  
5.0e6  
4.5e6  
4.0e6  
3.5e6  
3.0e6  
2.5e6  
2.0e6  
1.5e6  
1.0e6  
5.0e5  
0.0

3.08.2001

Ethiofencarb Q3 scan 226 -> 107  
MeOH:H2O, 1:1, 50mM NH4HCOO  
100ng/ml, 200µl/min

164.0

m/z, amu

300

290

280

270

260

250

240

230

220

210

200

190

180

170

160

150

140

130

120

110

100

90

80

70

60

50

3.08.2001  
Ethiofencarb164 Q3 scan 226 ->164  
MeOH:H2O, 1:1, 50mM NH4HCOO  
100ng/ml, 200µl/min

