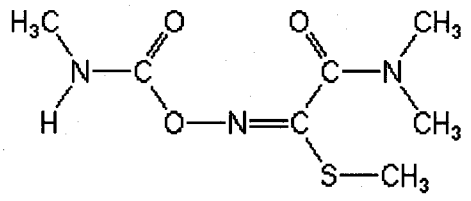
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Oxamyl

CAS No.: 23135-22-0
Formula: C7H13N3O3S
Molecular mass (lowest isotopes): 219,07 amu

Structure:



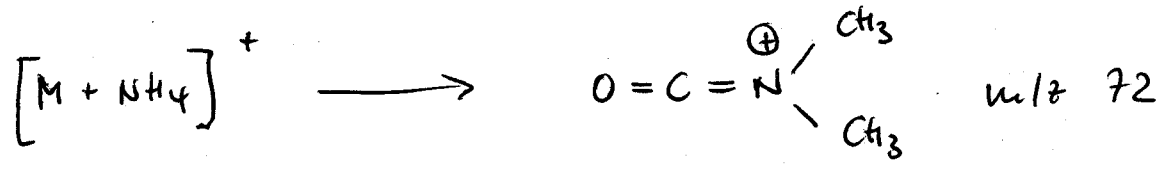
Ionisation: ESI + Quasimolecular ion: 237,1 amu = [M+NH4]+

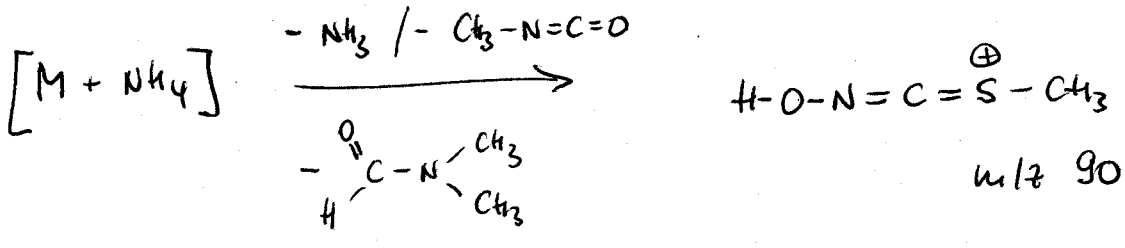
Analyte sensitive parameter set (API 2000)

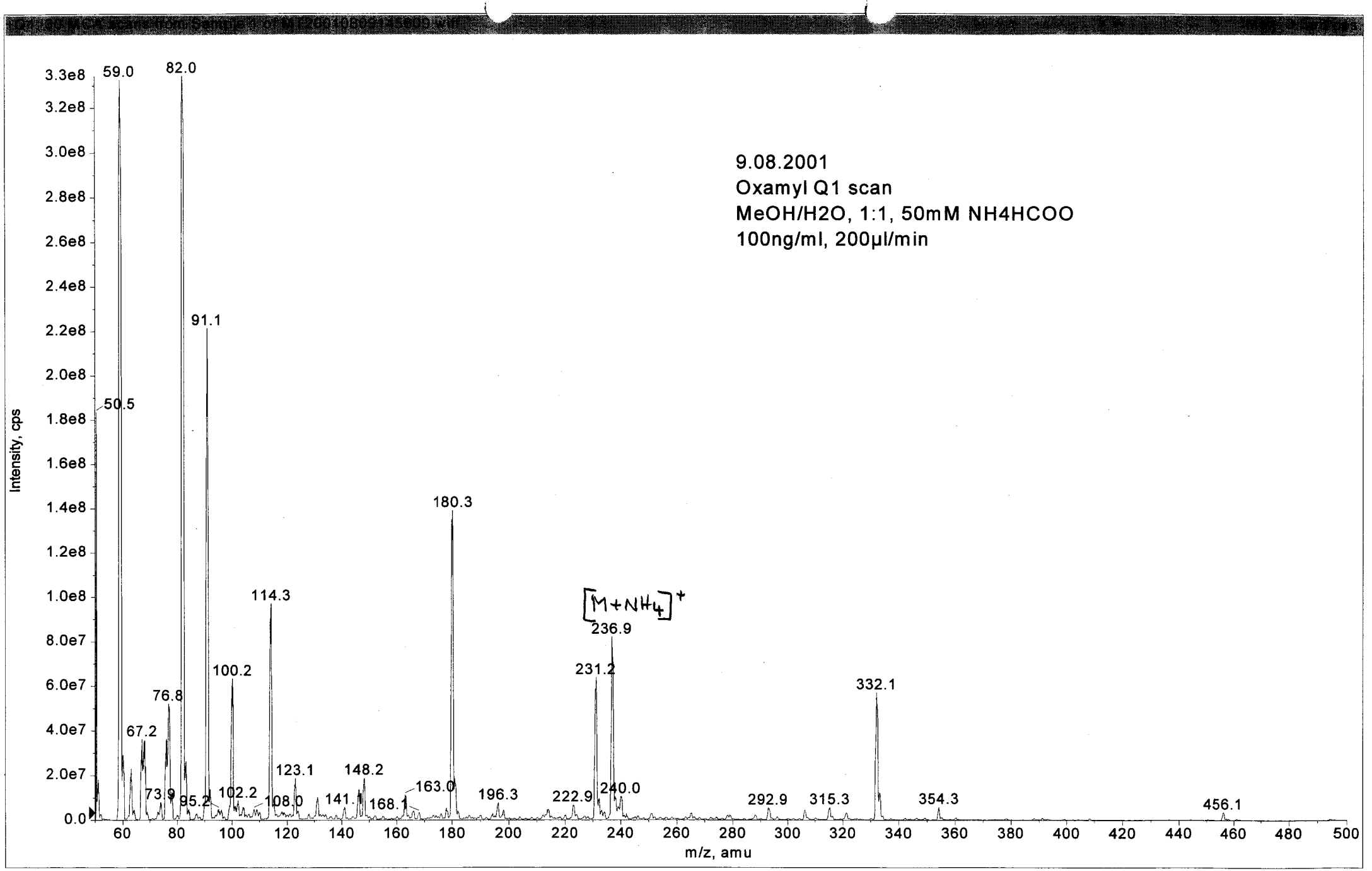
Transition	237,1 → 72,0	237,1 → 90,0
Declustering potential (DP)*)	1 V	1 V
Focusing potential (FP)	360 V	340 V
Entrance potential (EP)	5,5 V	4,5 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	21 V	13 V
Collision cell exit potential (CXP)	10 V	4 V

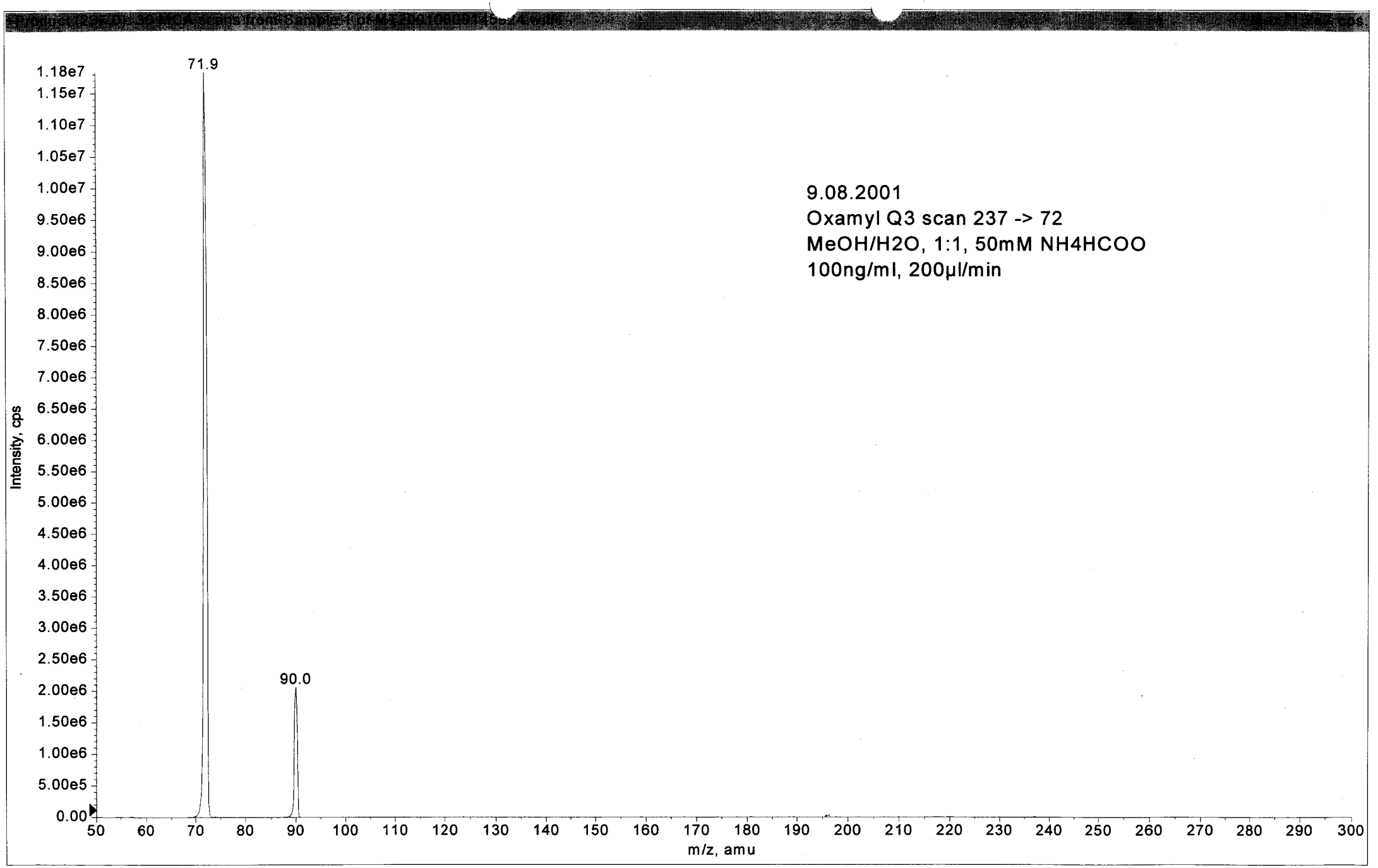
*) For API 3000 and 4000 enhance DP by 20V

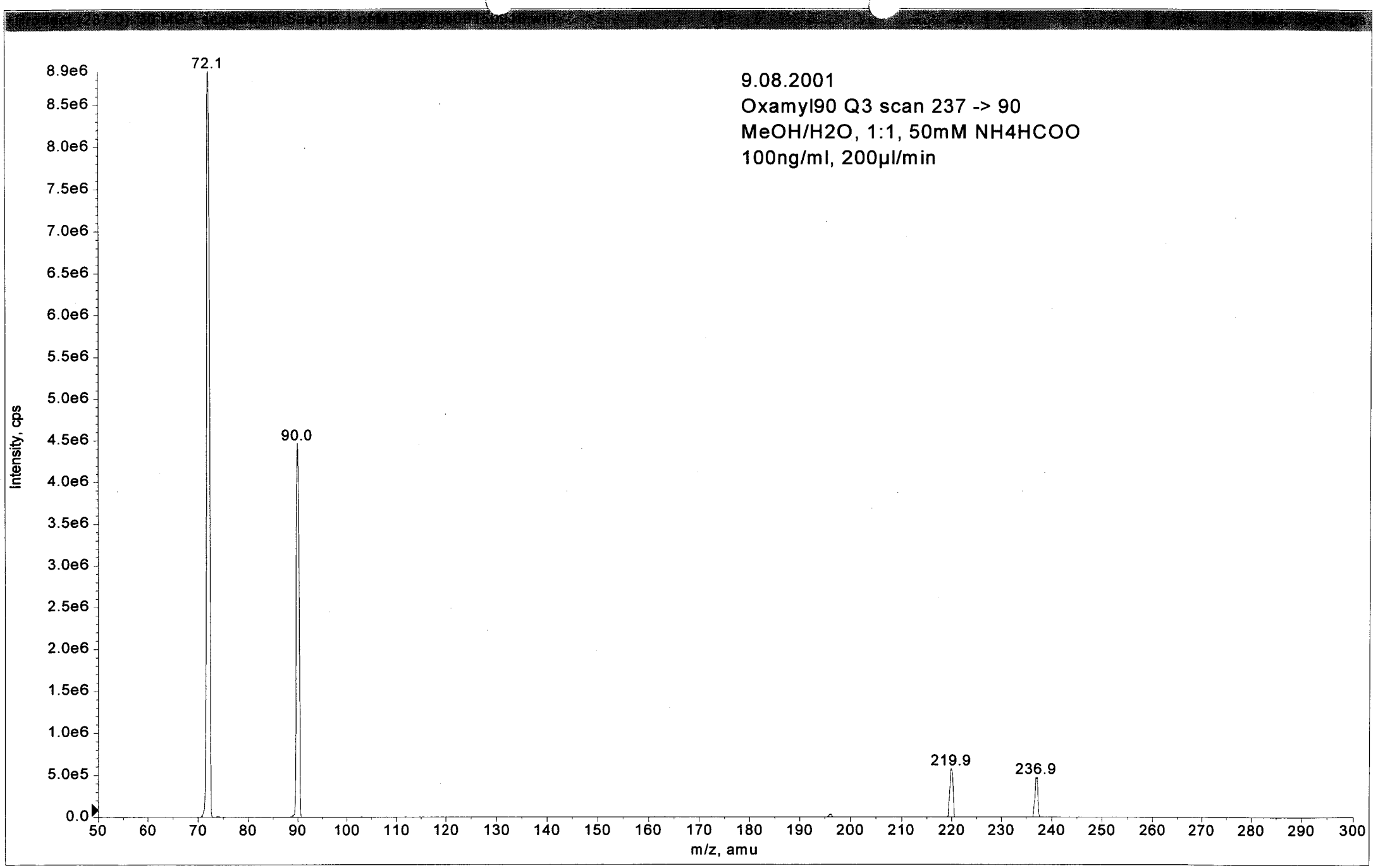
Fragmentation






9.08.2001
Oxamyl Q1 scan
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, 200µl/min
[M+NH4]+
Intensity, cps
m/z, amu
59.0
82.0
91.1
50.5
180.3
114.3
236.9
231.2
100.2
76.8
67.2
332.1
123.1
148.2
73.9
95.2
102.2
108.0
141.1
168.1
163.0
196.3
222.9
240.0
292.9
315.3
354.3
456.1


71.9
90.0
9.08.2001
Oxamyl Q3 scan 237 -> 72
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, 200µl/min
Intensity, cps
m/z, amu
1.18e7
1.15e7
1.10e7
1.05e7
1.00e7
9.50e6
9.00e6
8.50e6
8.00e6
7.50e6
7.00e6
6.50e6
6.00e6
5.50e6
5.00e6
4.50e6
4.00e6
3.50e6
3.00e6
2.50e6
2.00e6
1.50e6
1.00e6
5.00e5
0.00
50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300


9.08.2001
Oxamyl90 Q3 scan 237 -> 90
MeOH/H2O, 1:1, 50mM NH4HCOO
100ng/ml, 200µl/min
72.1
90.0
219.9
236.9
Intensity, cps
m/z, amu
8.9e6
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
50 60 70 80 90 100 110 120 130 140 150 160 170 180 190 200 210 220 230 240 250 260 270 280 290 300