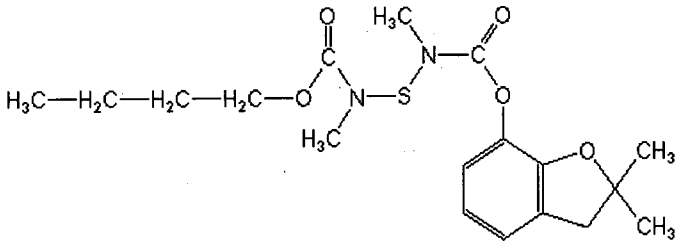
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Furathiocarb

CAS No.: 65907-30-4
Formula: C18H26N2O5S
Molecular mass (lowest isotopes): 382,16 amu

Structure:



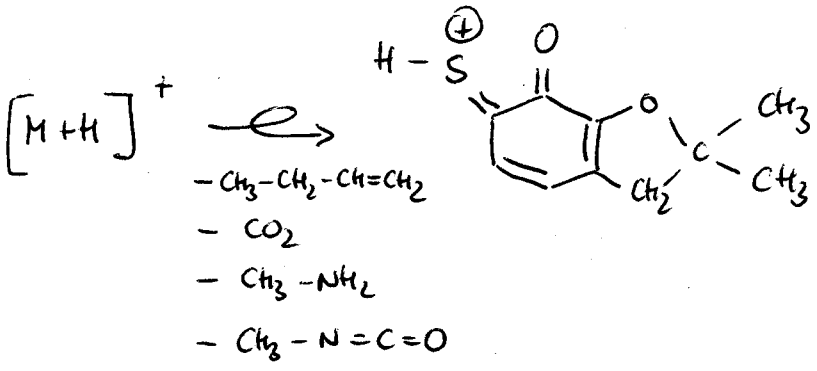
Ionisation: ESI + Quasimolecular ion: 383,2 amu = [M+H]+

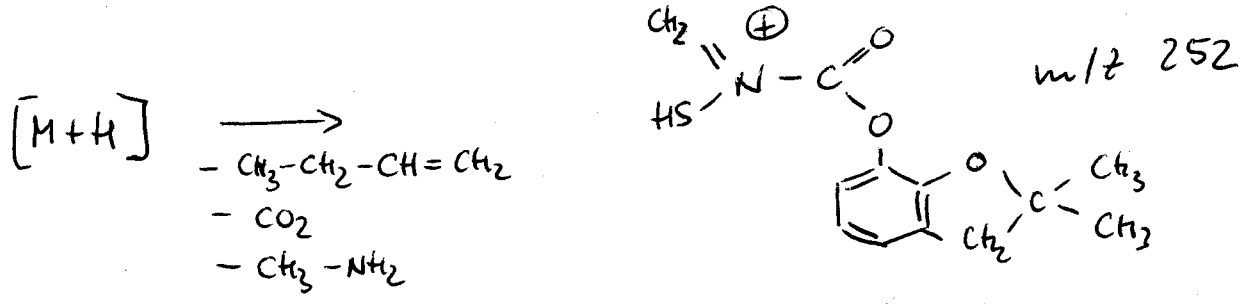
Analyte sensitive parameter set (API 2000)

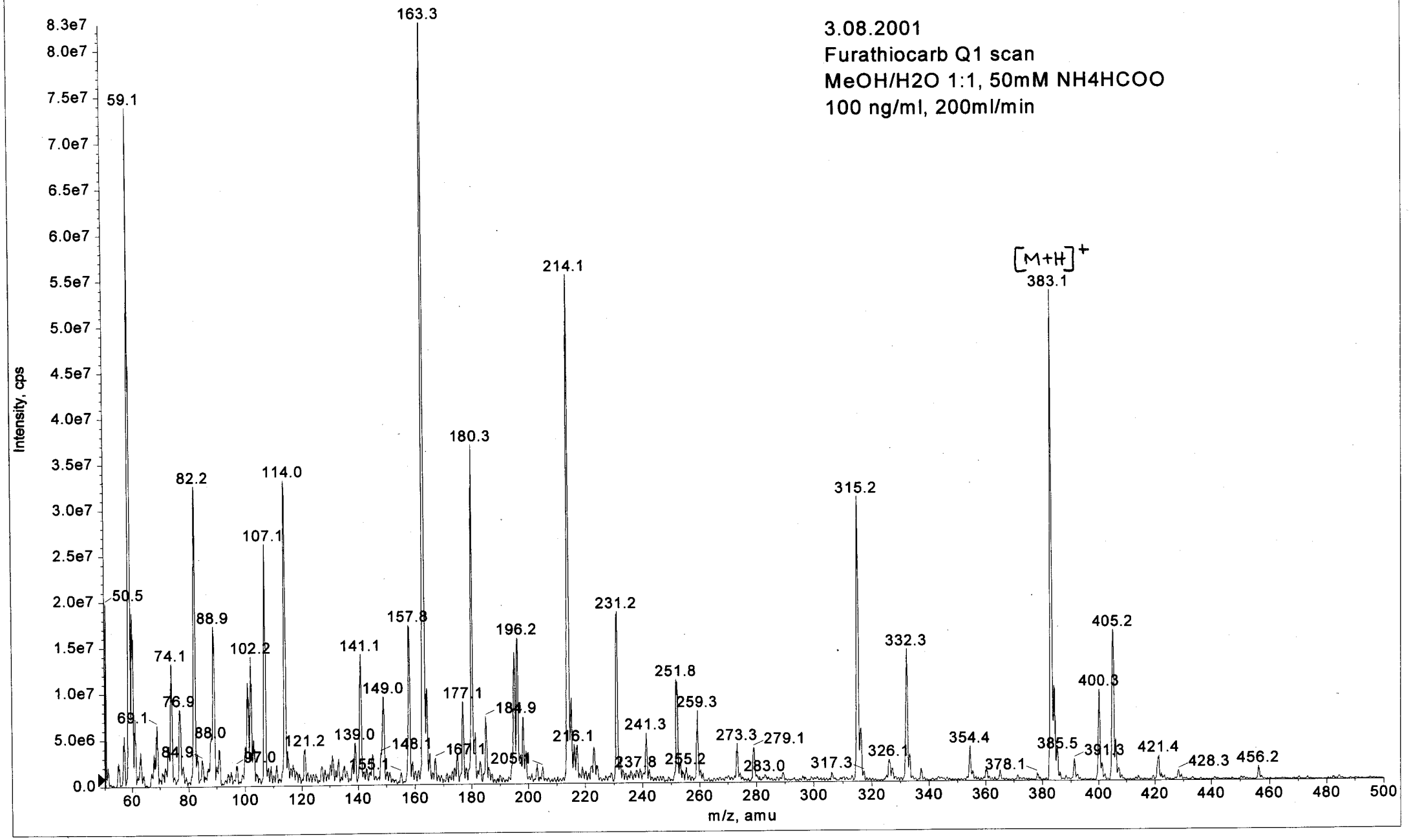
Transition	383,2 → 195,0	383,2 → 251,9
Declustering potential (DP)*)	49 V	49 V
Focusing potential (FP)	350 V	350 V
Entrance potential (EP)	12,0 V	8,5 V
Collision cell entrance potential (CEP)	14 V	16 V
Collision energy (CE)	23 V	19 V
Collision cell exit potential (CXP)	10 V	12 V

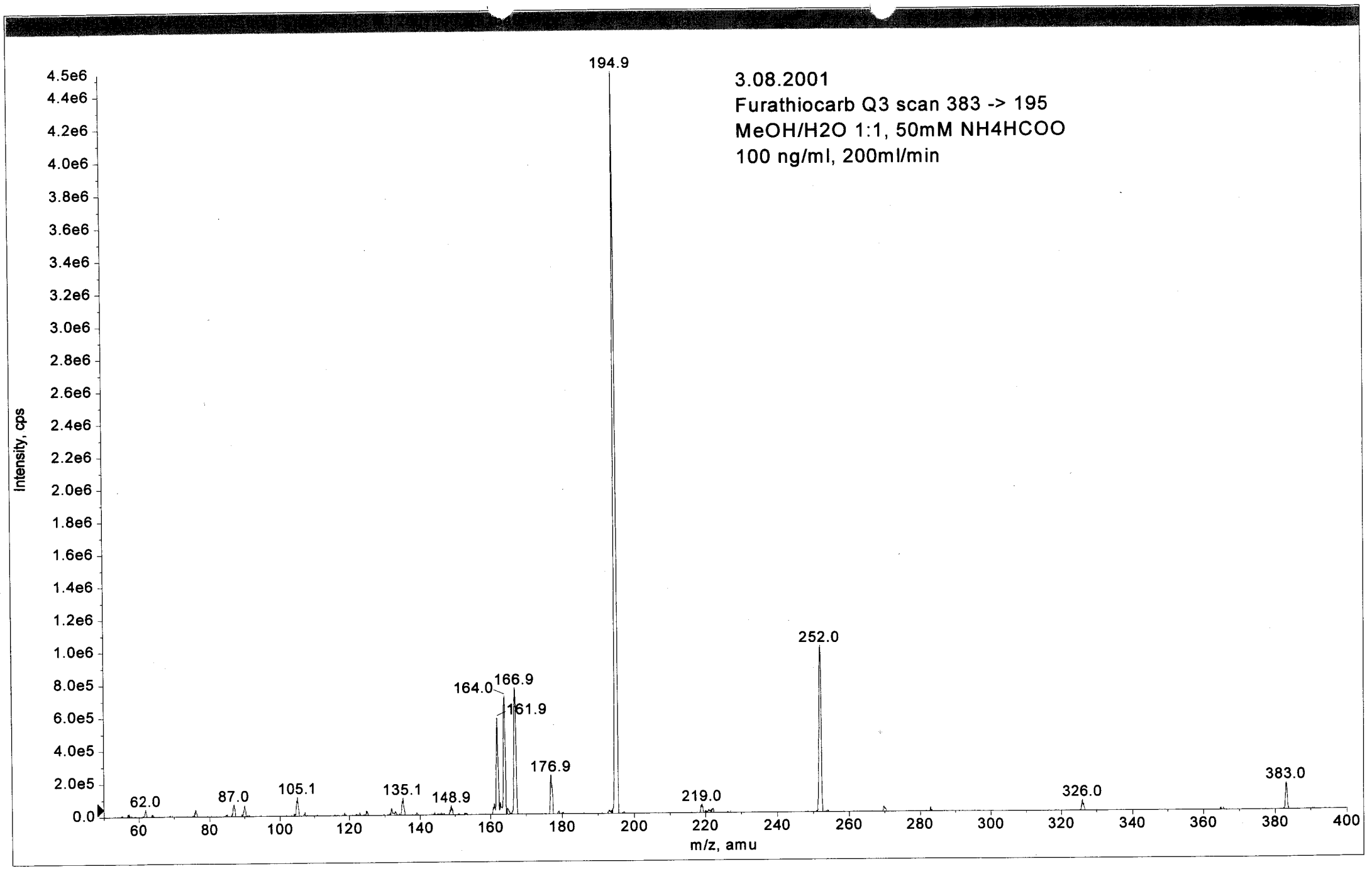
*) For API 3000 and 4000 enhance DP by 20V

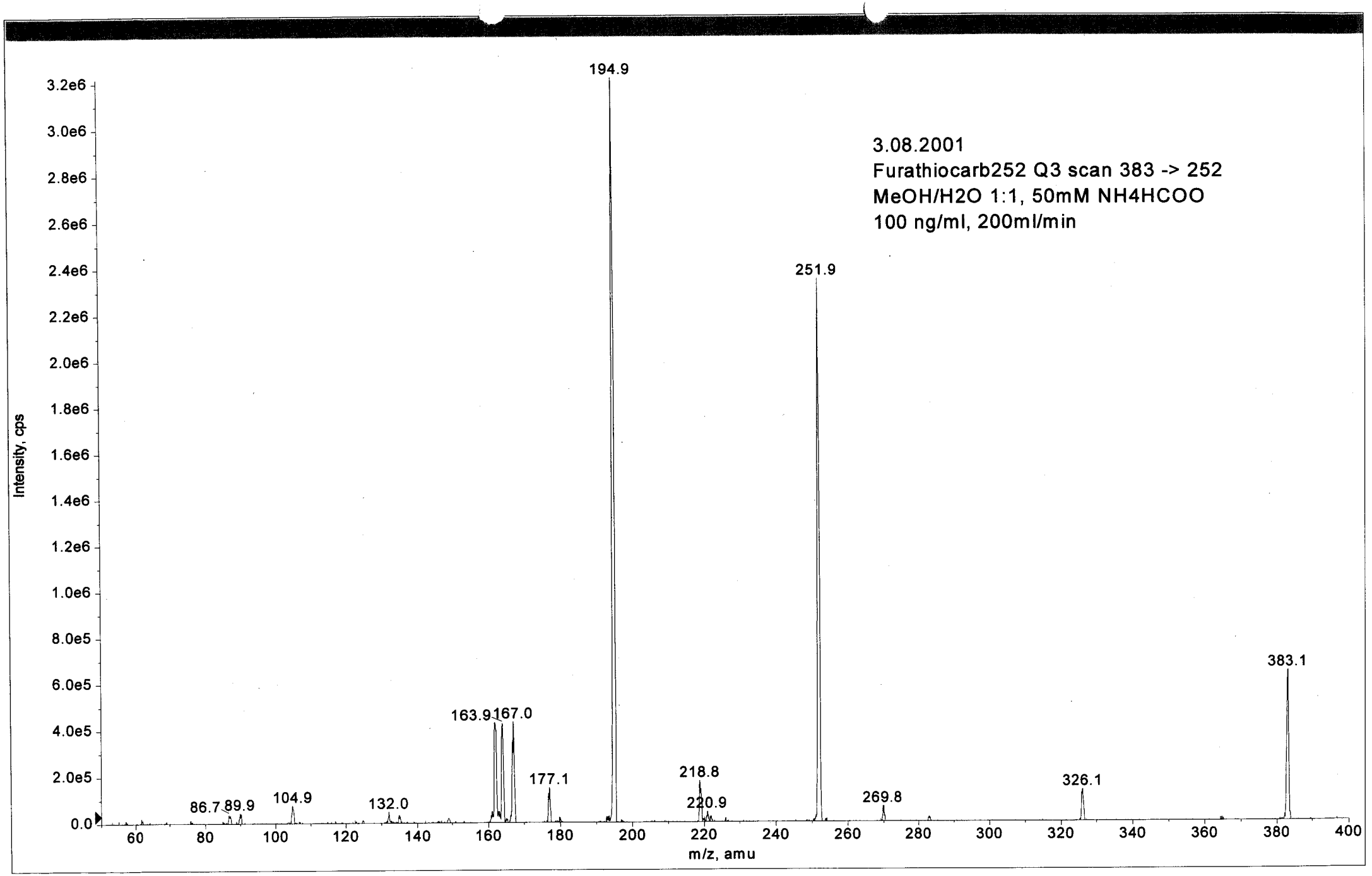
Fragmentation






3.08.2001
Furathiocarb Q1 scan
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200ml/min
[M+H]+
383.1
163.3
214.1
59.1
180.3
114.0
82.2
315.2
107.1
231.2
405.2
332.3
400.3
251.8
259.3
196.2
157.8
141.1
149.0
177.1
184.9
241.3
216.1
273.3
279.1
354.4
326.1
317.3
378.1
385.5
391.3
421.4
428.3
456.2
283.0
255.2
237.8
205.1
167.1
155.1
148.1
139.0
121.2
97.0
84.9
88.0
76.9
74.1
69.1
102.2
88.9
50.5
Intensity, cps
m/z, amu
8.3e7
8.0e7
7.5e7
7.0e7
6.5e7
6.0e7
5.5e7
5.0e7
4.5e7
4.0e7
3.5e7
3.0e7
2.5e7
2.0e7
1.5e7
1.0e7
5.0e6
0.0
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
420
440
460
480
500


3.08.2001
Furathiocarb Q3 scan 383 -> 195
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200ml/min
Intensity, cps
m/z, amu
194.9
252.0
164.0
166.9
161.9
176.9
383.0
326.0
219.0
62.0
87.0
105.1
135.1
148.9


3.08.2001
Furathiocarb252 Q3 scan 383 -> 252
MeOH/H2O 1:1, 50mM NH4HCOO
100 ng/ml, 200ml/min
194.9
251.9
383.1
163.9
167.0
177.1
218.8
220.9
326.1
269.8
104.9
132.0
86.7
89.9
Intensity, cps
m/z, amu
3.2e6
3.0e6
2.8e6
2.6e6
2.4e6
2.2e6
2.0e6
1.8e6
1.6e6
1.4e6
1.2e6
1.0e6
8.0e5
6.0e5
4.0e5
2.0e5
0.0
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400