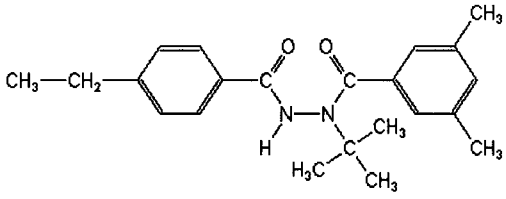
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Tebufenozid

CAS No.: 112410-23-8
Formula: C22H28N2O2
Molecular mass (lowest isotopes): 352,22 amu

Structure:



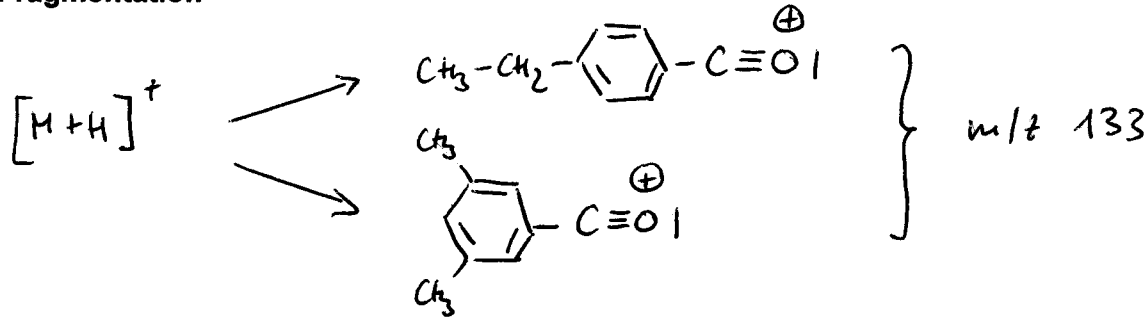
Ionisation: ESI + Quasimolecular ion: 353,2 amu = [M+H]+

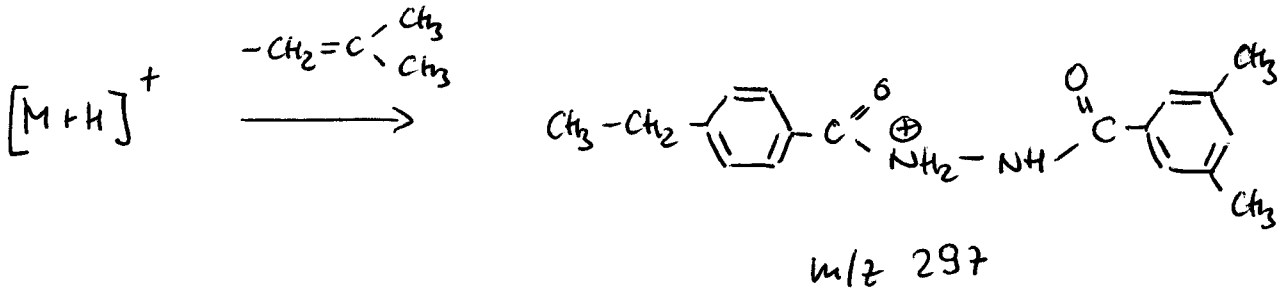
Analyte sensitive parameter set (API 2000)

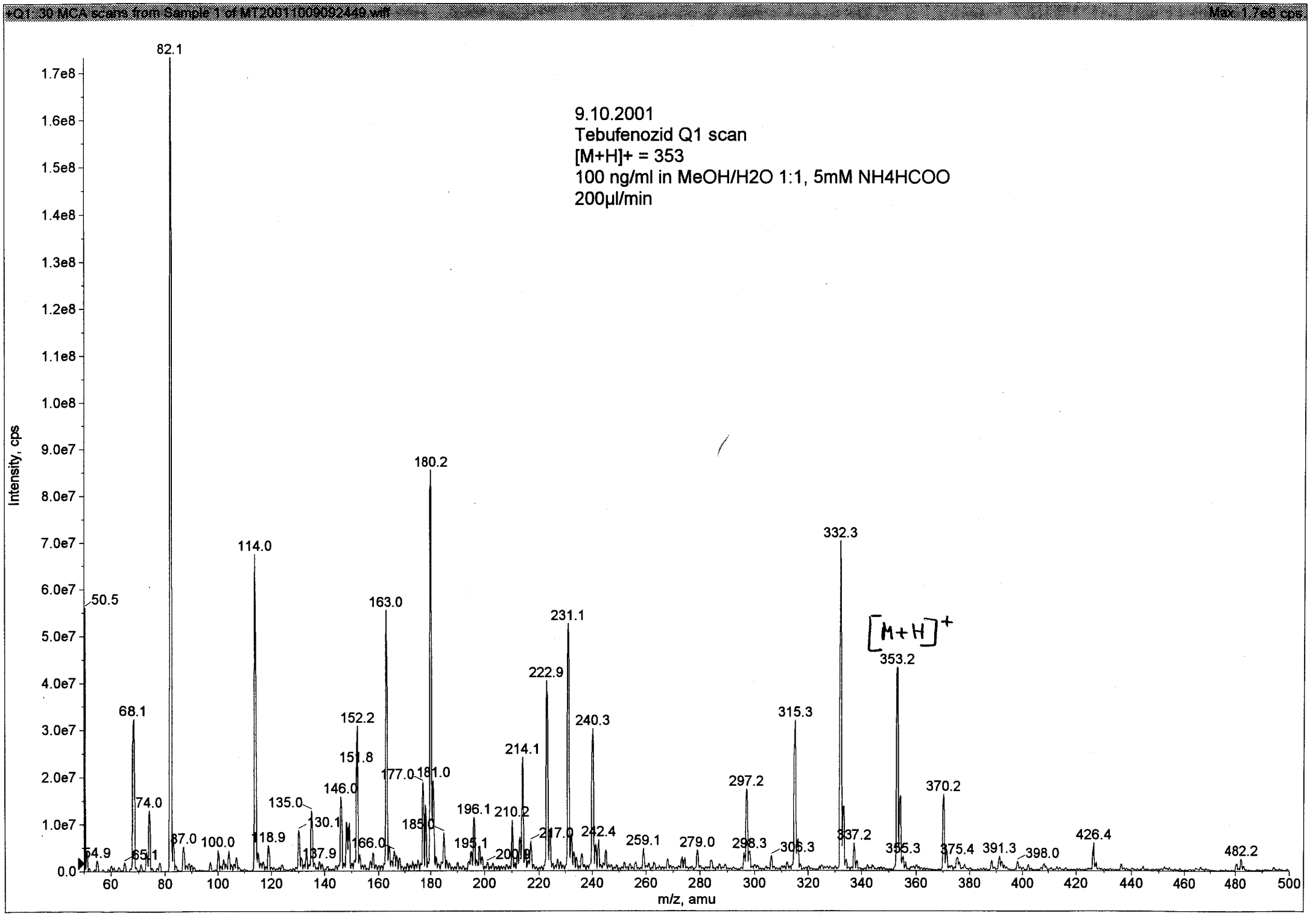
Transition	353,2 → 296,9	353,2 → 133,0
Declustering potential (DP)*)	41 V	41 V
Focusing potential (FP)	330 V	350 V
Entrance potential (EP)	11,5 V	11,5 V
Collision cell entrance potential (CEP)	24 V	24 V
Collision energy (CE)	15 V	23 V
Collision cell exit potential (CXP)	16 V	6 V

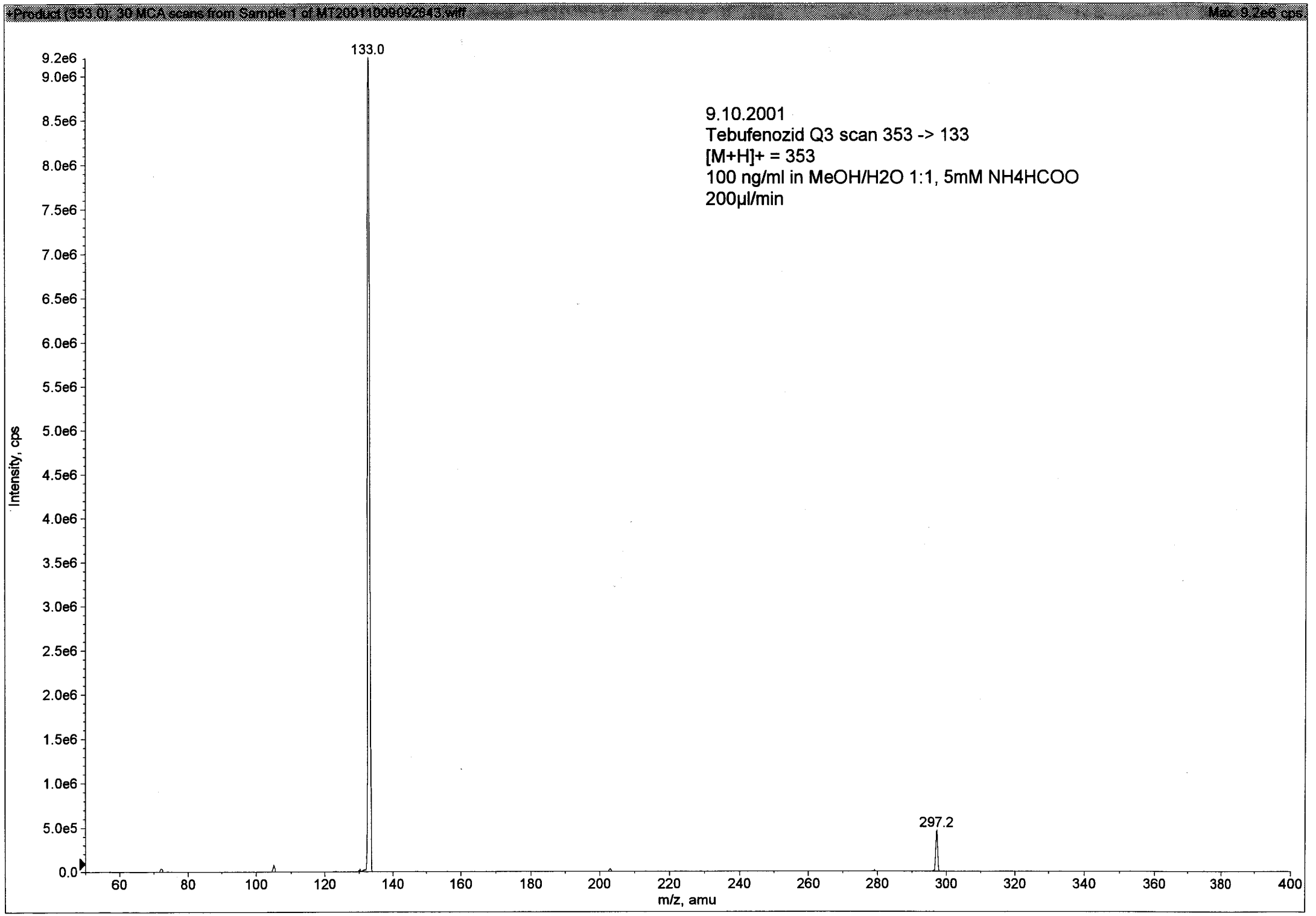
*) For API 3000 and 4000 enhance DP by 20V

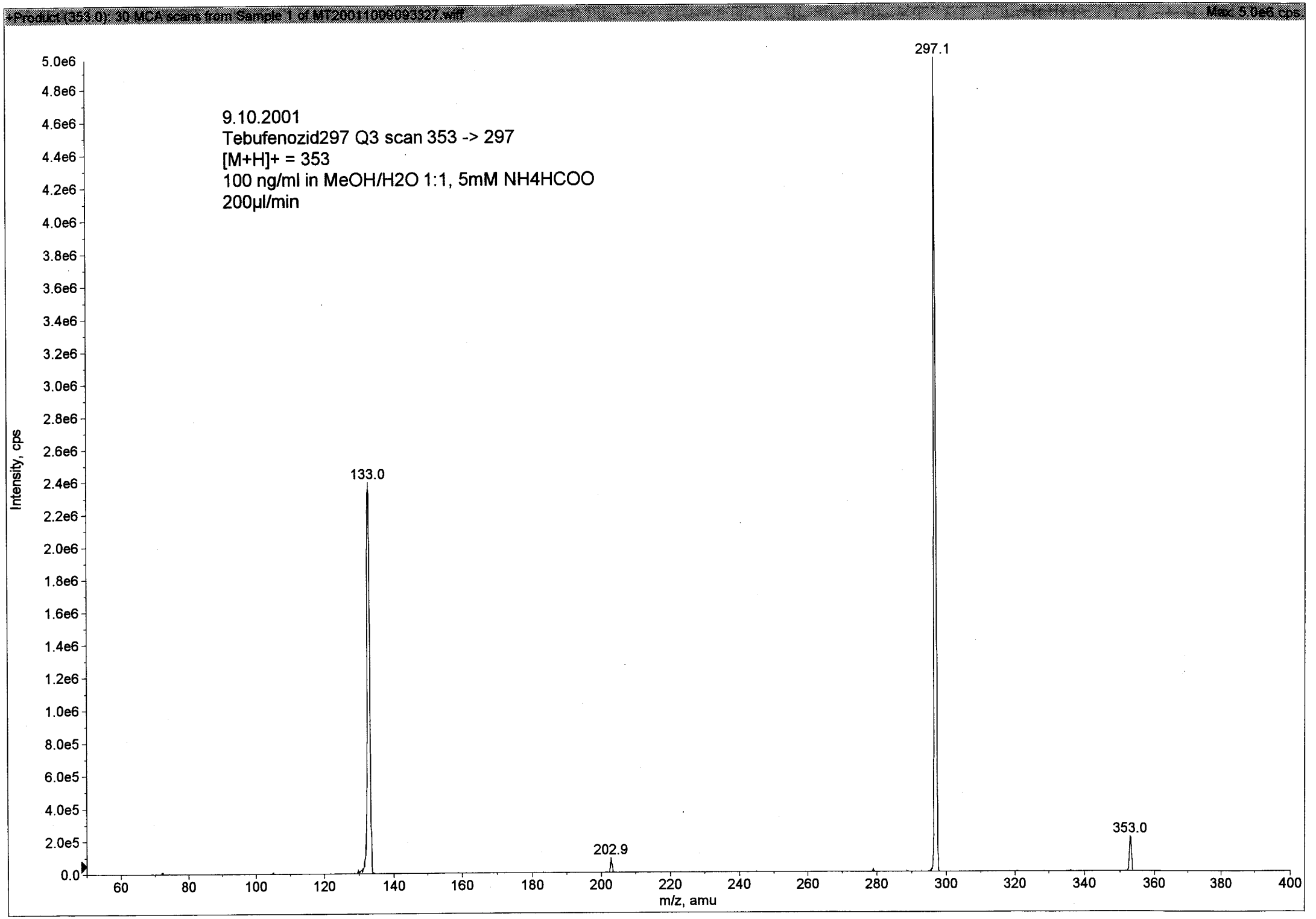
Fragmentation

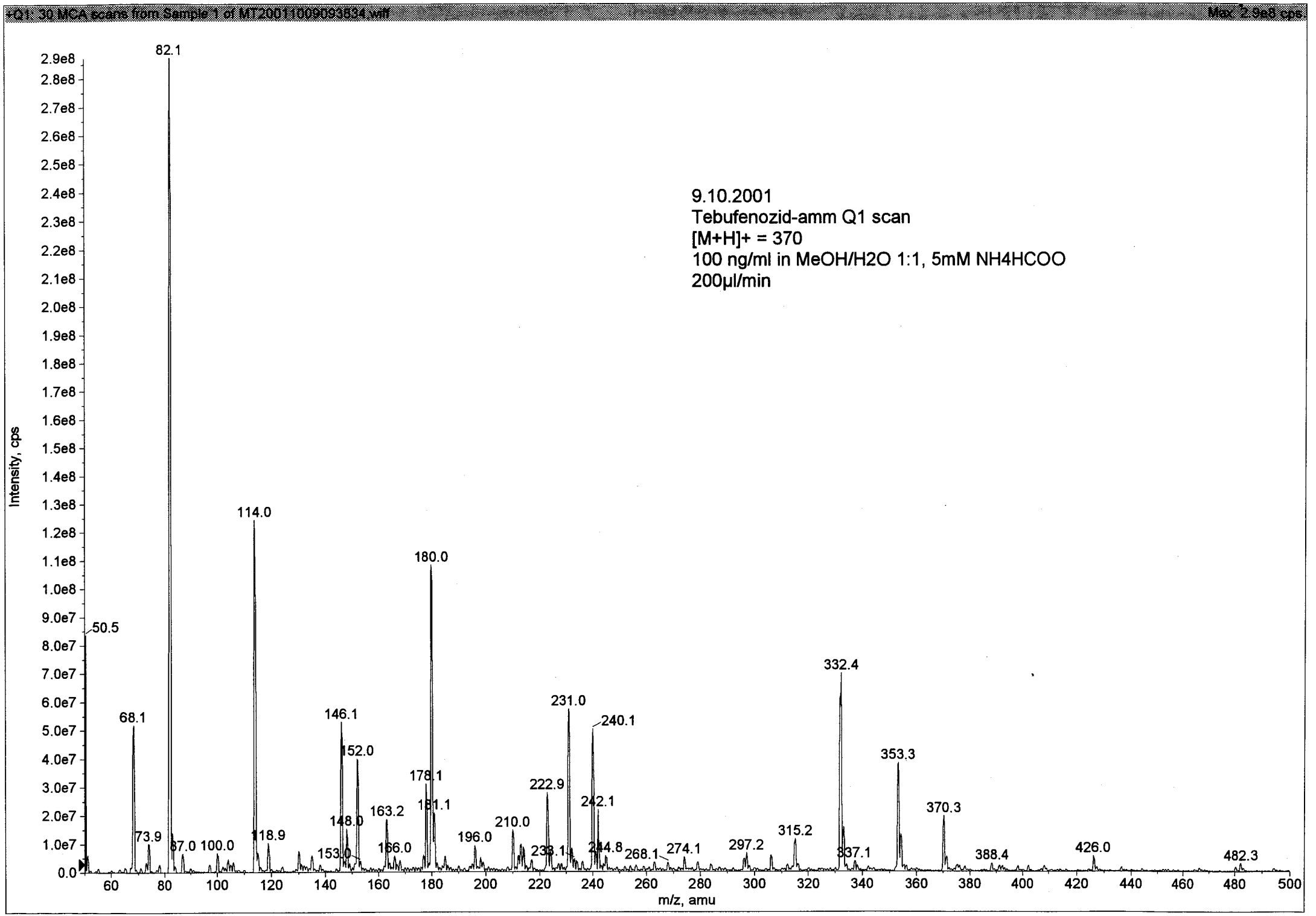


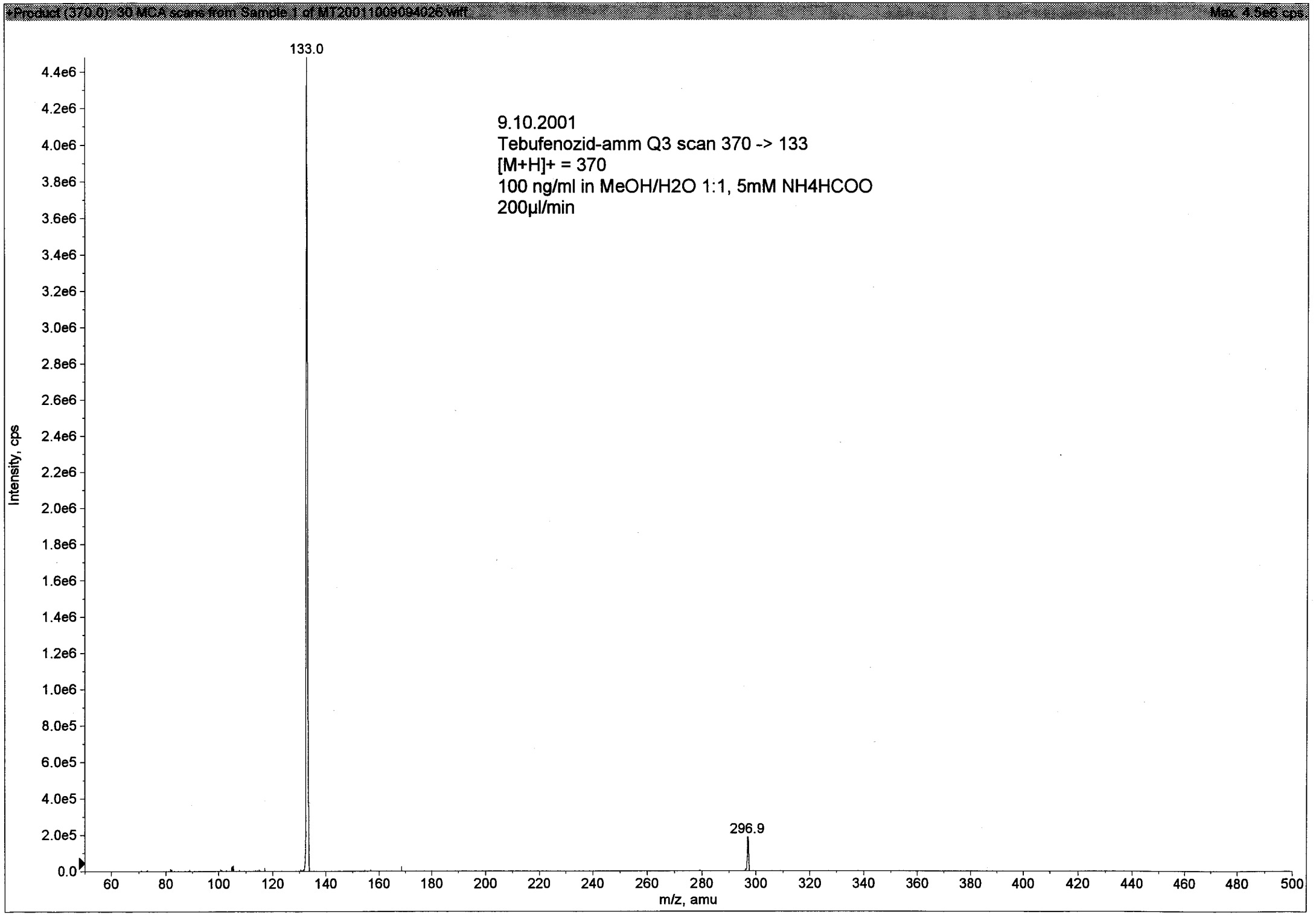



+Q1: 30 MCA scans from Sample 1 of MT20011009092449.wiff
Max. 1.7e8 cps.
9.10.2001
Tebufenozid Q1 scan
[M+H]+ = 353
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min
[M+H]+
Intensity, cps
m/z, amu


+Product (353.0): 30 MCA scans from Sample 1 of MT20011009092643.wiff
Max. 9.2e6 cps.
133.0
297.2
9.10.2001
Tebufenozid Q3 scan 353 -> 133
[M+H]+ = 353
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min
Intensity, cps
9.2e6
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
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
m/z, amu


+Product (353.0): 30 MCA scans from Sample 1 of MT20011009093527.wiff
Max. 5.0e6 cps.
9.10.2001
Tebufenozid297 Q3 scan 353 -> 297
[M+H]+ = 353
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min
297.1
133.0
202.9
353.0
Intensity, cps
m/z, amu
5.0e6
4.8e6
4.6e6
4.4e6
4.2e6
4.0e6
3.8e6
3.6e6
3.4e6
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


+Q1: 30 MCA scans from Sample 1 of MT20011009093834.wiff
Max. 2.9e8 cps.
9.10.2001
Tebufenozid-amm Q1 scan
[M+H]+ = 370
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min
Intensity, cps
m/z, amu
82.1
114.0
180.0
50.5
68.1
146.1
152.0
231.0
240.1
332.4
353.3
178.1
181.1
222.9
242.1
370.3
163.2
148.0
210.0
315.2
73.9
87.0
100.0
118.9
153.0
166.0
196.0
233.1
244.8
268.1
274.1
297.2
337.1
388.4
426.0
482.3


+Product (370.0): 30 MCA scans from Sample 1 of MT20011009094026.wiff
Max. 4.5e6 cps.
133.0
296.9
9.10.2001
Tebufenozid-amm Q3 scan 370 -> 133
[M+H]+ = 370
100 ng/ml in MeOH/H2O 1:1, 5mM NH4HCOO
200µl/min
Intensity, cps
4.4e6
4.2e6
4.0e6
3.8e6
3.6e6
3.4e6
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
420
440
460
480
500
m/z, amu