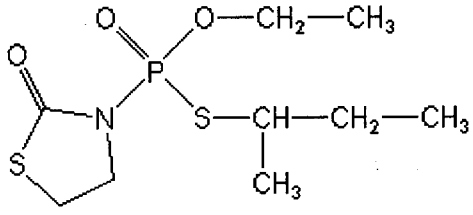
Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

Analyte: Fosthiazate

CAS No.: 98886-44-3
Formula: C9H18NO3PS2
Molecular mass (lowest isotopes): 283,05 amu

Structure:



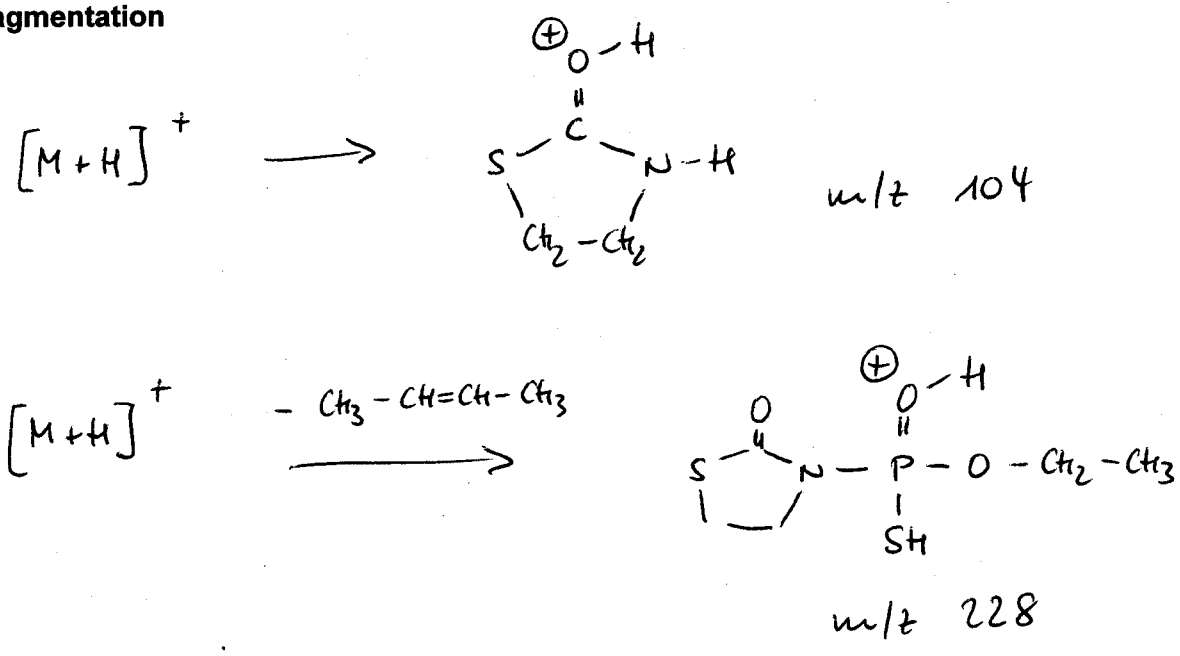
Ionisation: ESI + Quasimolecular ion: 284,0 amu = [M+H]+

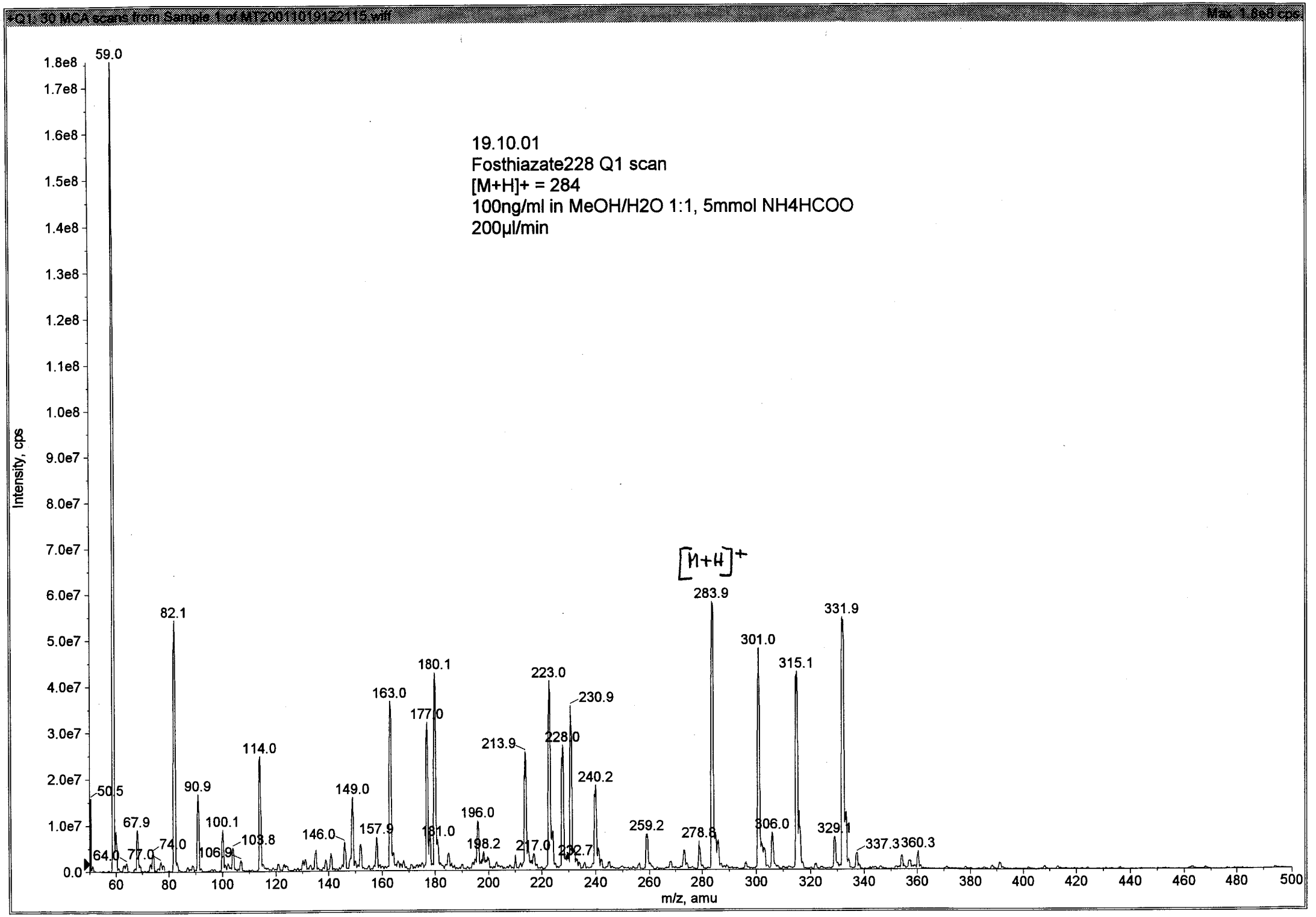
Analyte sensitive parameter set (API 2000)

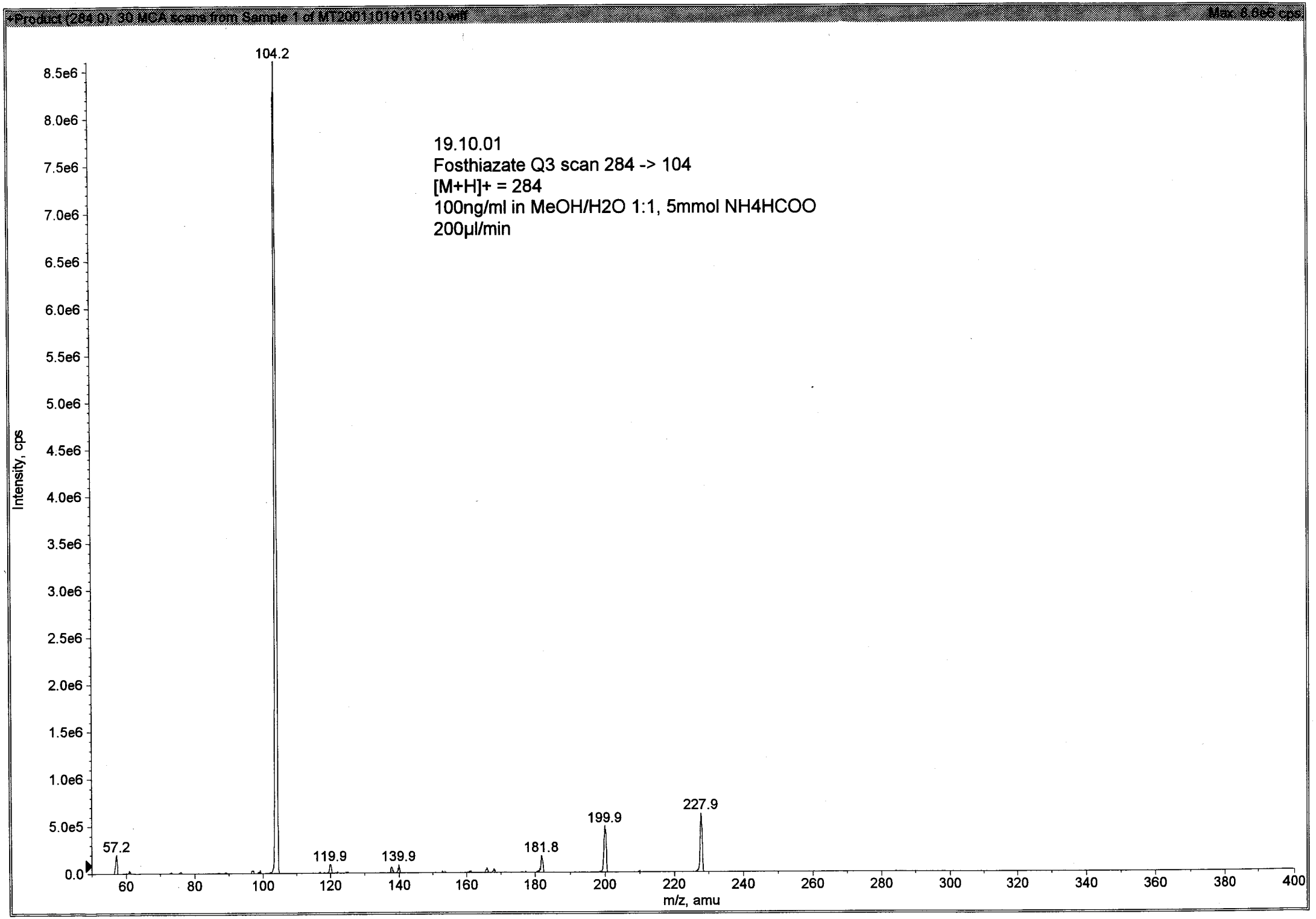
Transition	284,0 → 104,1	284,0 → 227,8
Declustering potential (DP)*)	61 V	61 V
Focusing potential (FP)	360 V	360 V
Entrance potential (EP)	12,0 V	9,5 V
Collision cell entrance potential (CEP)	18 V	16 V
Collision energy (CE)	27 V	15 V
Collision cell exit potential (CXP)	4 V	12 V

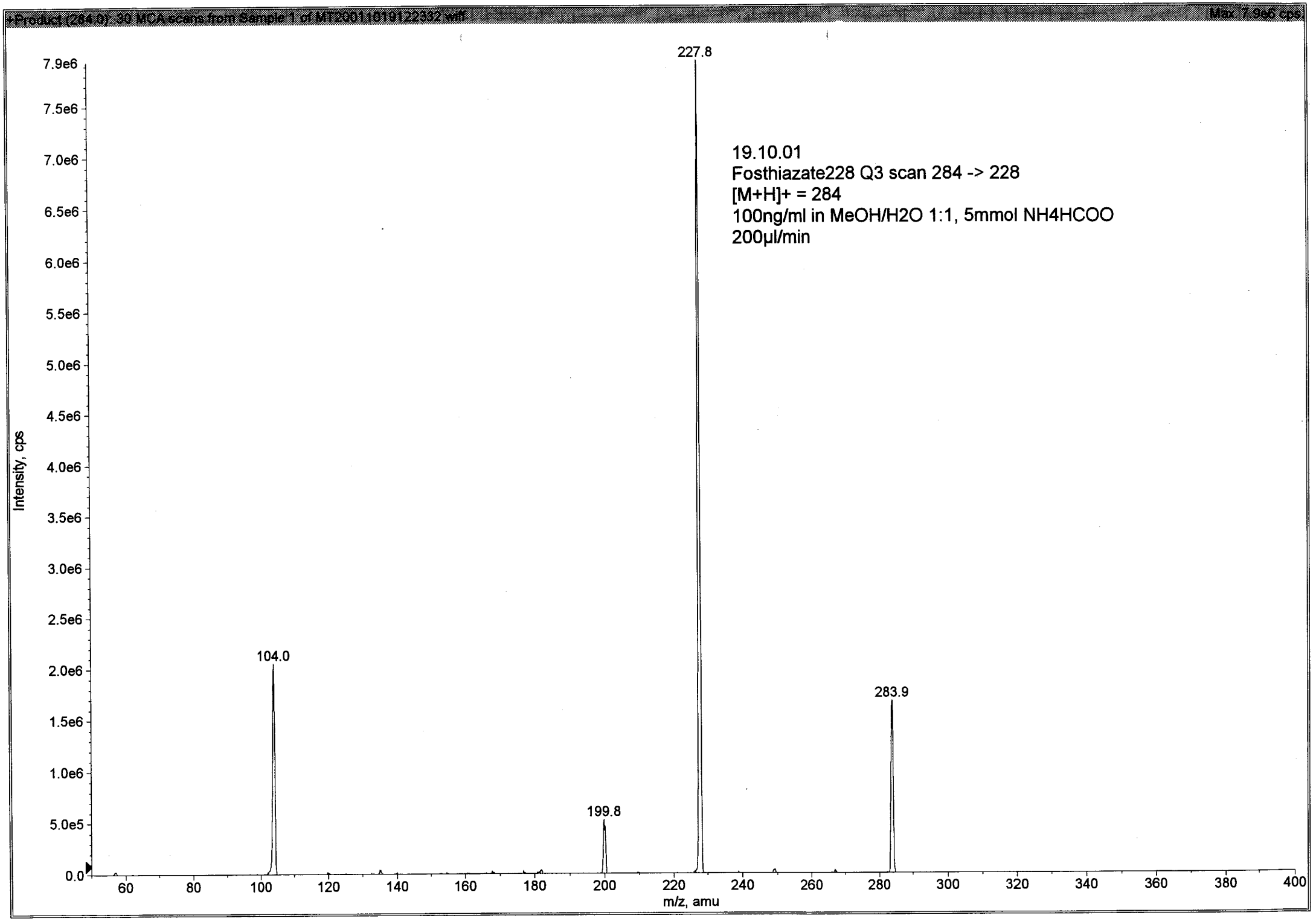
*) For API 3000 and 4000 enhance DP by 20V

Fragmentation




+Q1: 30 MCA scans from Sample 1 of MT20110(9122115.wiff
Max. 1.8e8 cps.
19.10.01
Fosthiazate228 Q1 scan
[M+H]+ = 284
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
[M+H]+
Intensity, cps
m/z, amu
59.0
82.1
283.9
331.9
301.0
315.1
180.1
223.0
230.9
163.0
177.0
213.9
228.0
114.0
240.2
90.9
149.0
50.5
67.9
100.1
196.0
259.2
278.8
306.0
329.1
337.3
360.3
146.0
157.9
181.0
198.2
217.0
232.7
64.0
77.0
74.0
106.9
103.8


+Product (284.0): 30 MCA scans from Sample 1 of MT20011019115110.wiff
Max. 8.8e6 cps.
104.2
19.10.01
Fosthiazate Q3 scan 284 -> 104
[M+H]+ = 284
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
Intensity, cps
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
57.2
119.9
139.9
181.8
199.9
227.9
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
400
m/z, amu


+Product (284.0): 30 MCA scans from Sample 1 of MT20011019122332.wiff
Max. 7.9e6 cps.
227.8
104.0
199.8
283.9
19.10.01
Fosthiazate228 Q3 scan 284 -> 228
[M+H]+ = 284
100ng/ml in MeOH/H2O 1:1, 5mmol NH4HCOO
200µl/min
Intensity, cps
m/z, amu
7.9e6
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