

## MS/MS Parameters of Pesticides

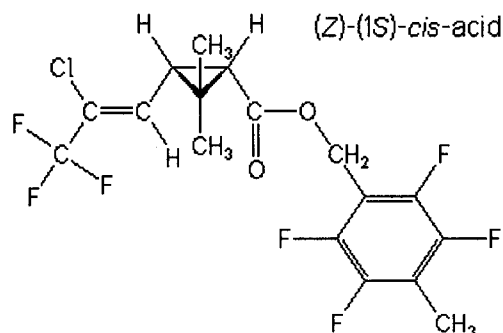
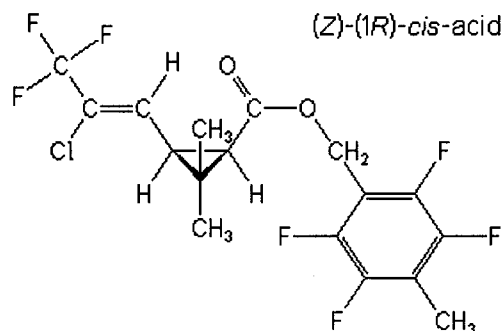
### Analyte: Tefluthrin

CAS No.: 79538-32-2

Formula: C<sub>17</sub>H<sub>14</sub>ClF<sub>7</sub>O<sub>2</sub>

Molecular mass (lowest isotopes): 418,06 amu

Structure:



Ionisation: ESI +

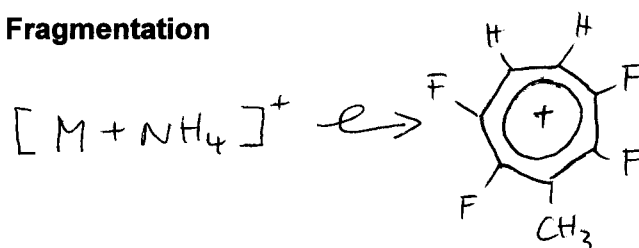
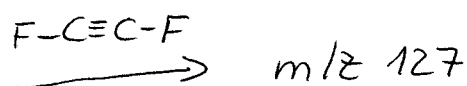
Quasimolecular ion: 436,1 amu = [M+NH<sub>4</sub>]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

Transition	436,1 → 177,1	436,1 → 127,0
Declustering potential (DP) <sup>*)</sup>	29V	29 V
Focusing potential (FP)	370 V	360 V
Entrance potential (EP)	9,5 V	12,0 V
Collision cell entrance potential (CEP)	20 V	22 V
Collision energy (CE)	29 V	79 V
Collision cell exit potential (CXP)	8 V	6 V

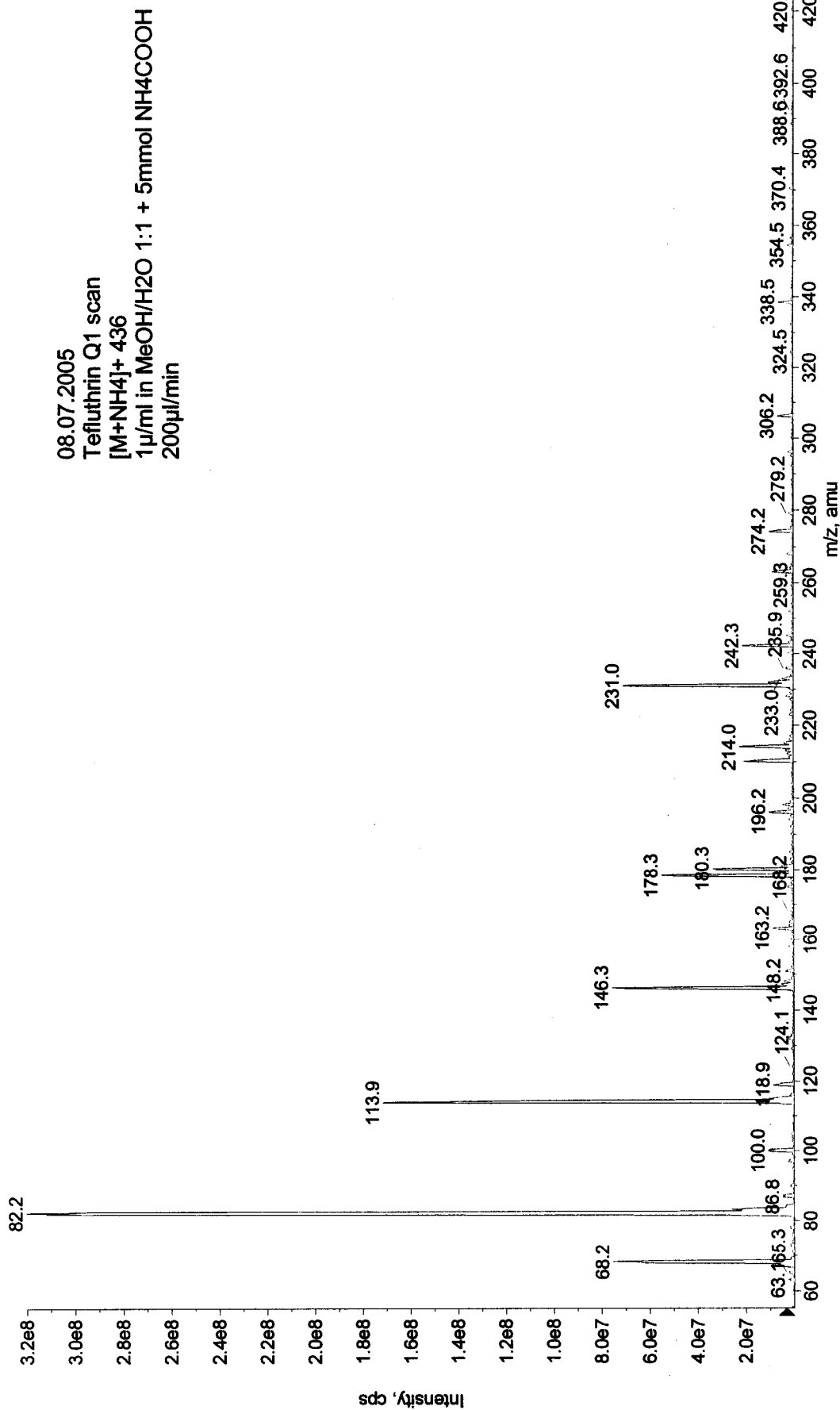
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

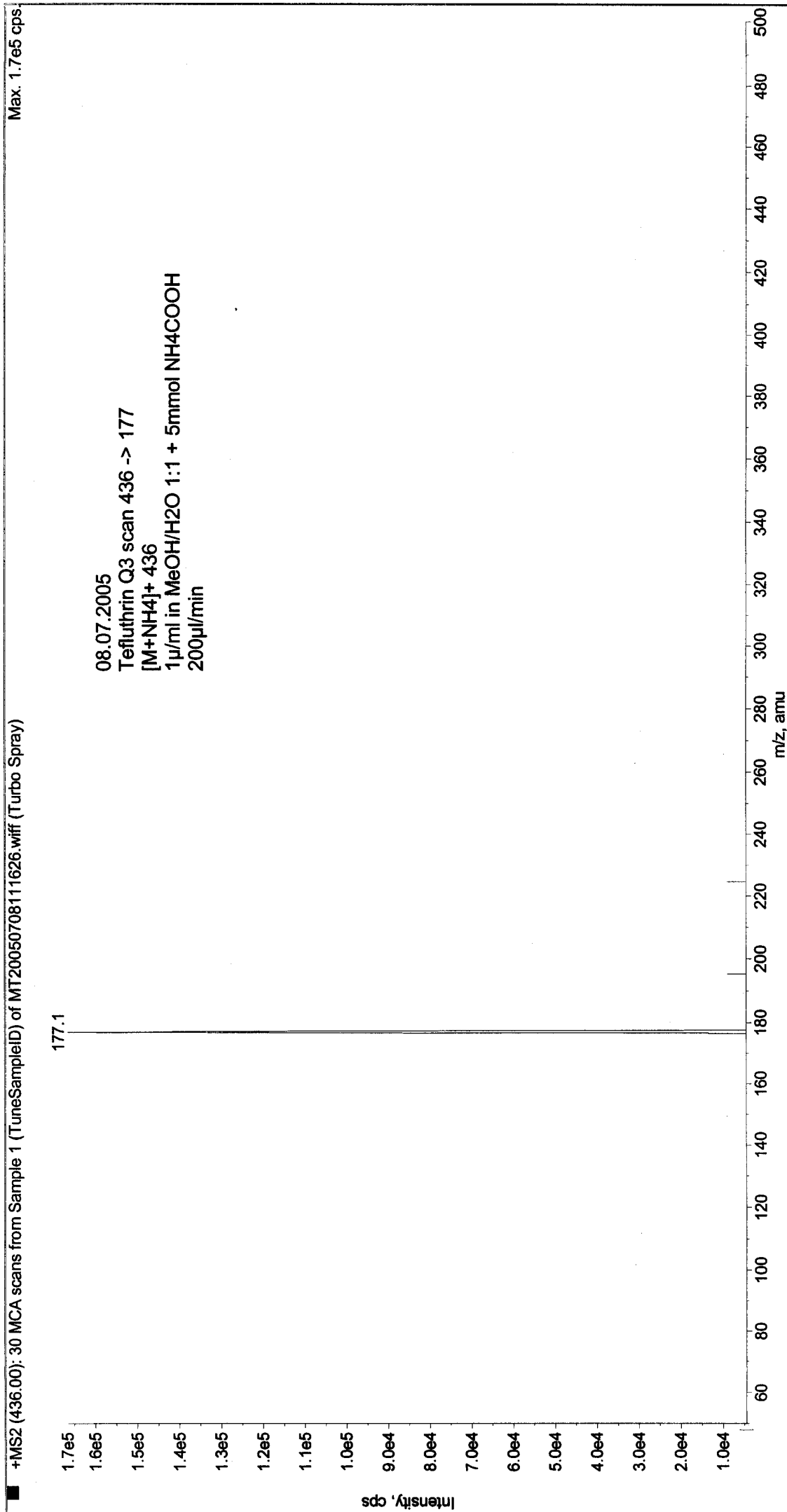
### Fragmentation


 $m/z$  177


+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20050708111348.wiff (Turbo Spray)

Max. 3.2e8 cps





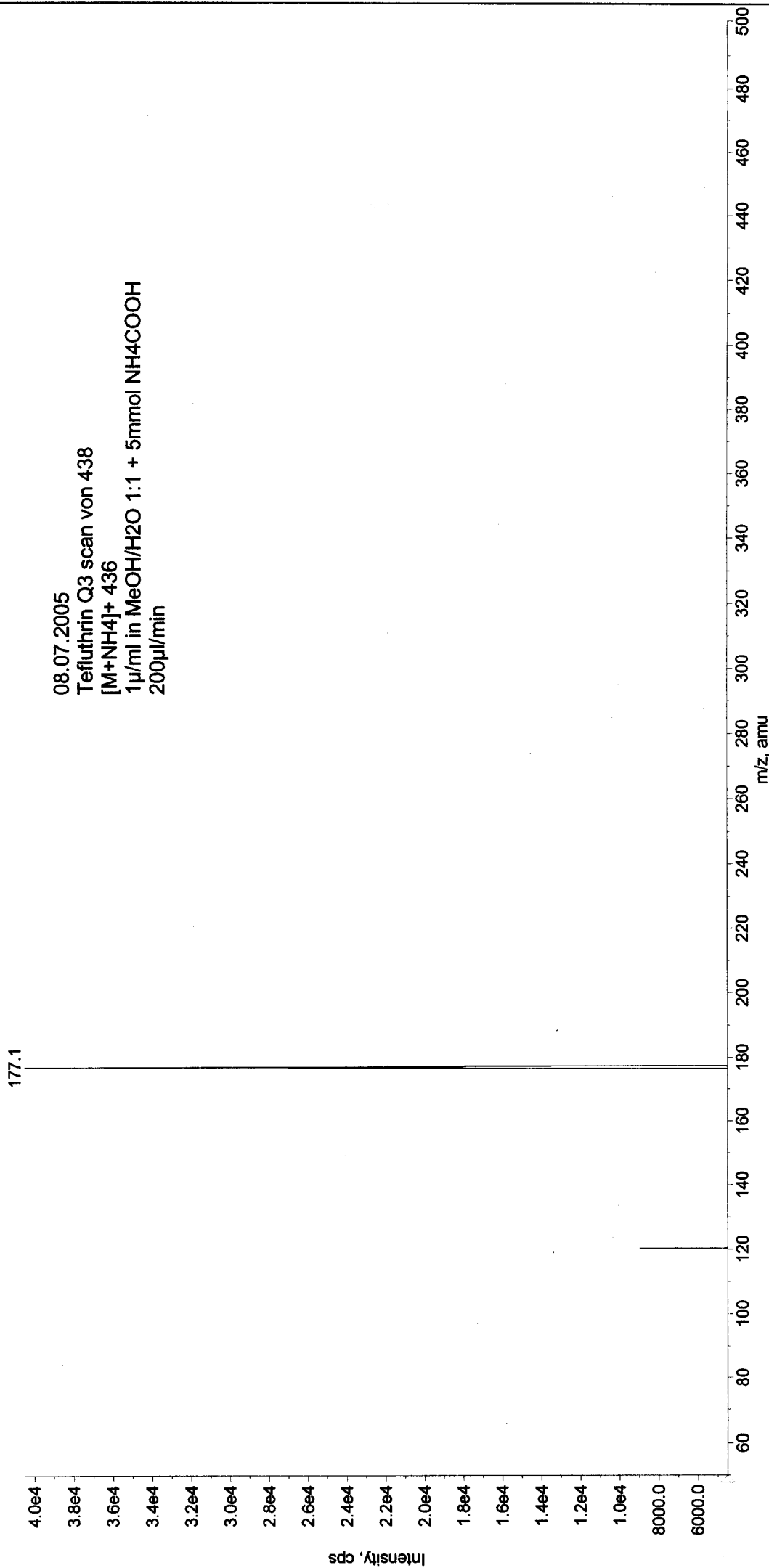
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Printing Date: Friday, July 08, 2005

Acq. Time: 11:17  
Acq. Date: Friday, July 08, 2005  
Acq. File: MT20050708111748.wiff

Sample Comment:  
Sample Name: TuneSampleID  
Batch Name: ManualTune.bat

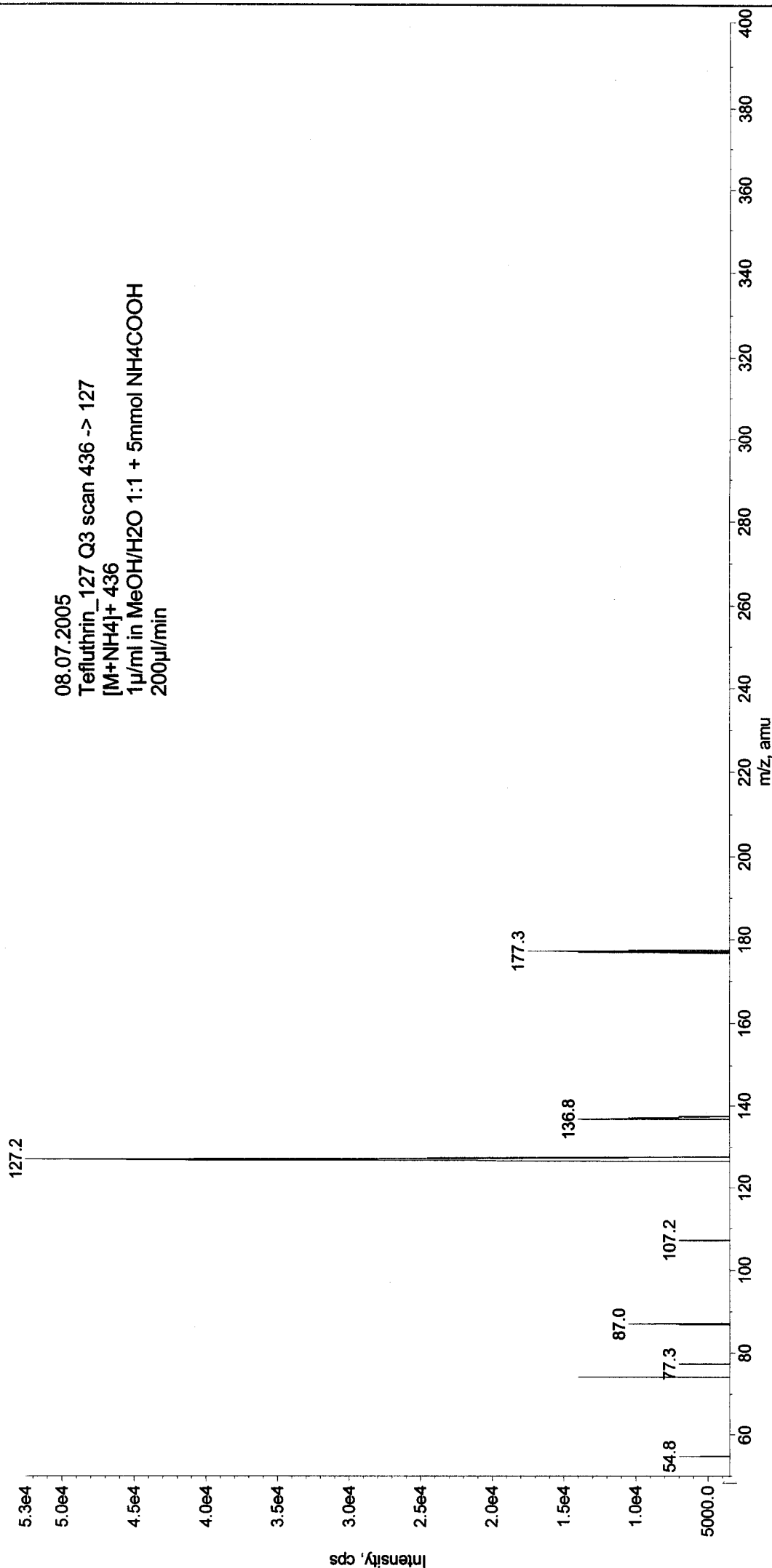
■ +MS2 (438.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050708111748.wiff (Turbo Spray)

Max. 4.1e4 cps



■ +MS2 (436.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20050708112111.wiff (Turbo Spray)

Max. 5.3e4 cps



08.07.2005  
Tefluthrin\_127 Q3 scan 436 -> 127  
[M+NH4]<sup>+</sup> 436  
1μ/ml in MeOH/H2O 1:1 + 5mmol NH4COOH  
200μl/min

Printing Time: 11:23:32  
Printing Date: Friday, July 08, 2005

Acq. Time: 11:22  
Acq. Date: Friday, July 08, 2005  
Acq. File: MT20050708112229.wiff

Sample Comment:  
Sample Name: TuneSampleID  
Batch Name: ManualTune.bat

