

**BfR**

Risiken erkennen – Gesundheit schützen

## MS/MS Parameters of Pesticides

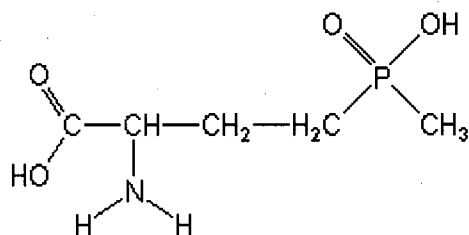
### Analyte: Glufosinate

CAS No.: 77182-82-2

Formula: C<sub>5</sub>H<sub>12</sub>NO<sub>4</sub>P

Molecular mass (lowest isotopes): 181,05 amu

Structure:



Ionisation: ESI +

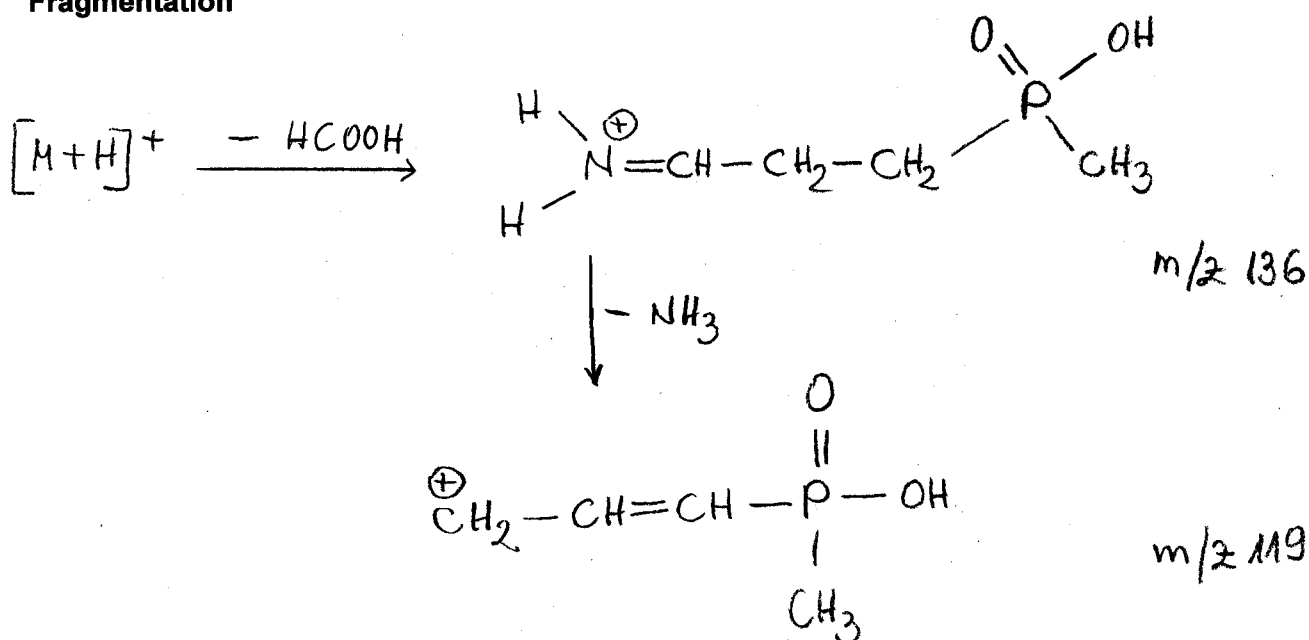
Quasimolecular ion: 182,1 amu = [M+H]<sup>+</sup>

Analyte sensitive parameter set (API 2000)

Transition	182,1 → 136,1	182,1 → 119,0
Declustering potential (DP) <sup>*)</sup>	31 V	31 V
Focusing potential (FP)	370 V	320 V
Entrance potential (EP)	11,5 V	12,0 V
Collision cell entrance potential (CEP)	12 V	12 V
Collision energy (CE)	19 V	25 V
Collision cell exit potential (CXP)	6 V	6 V

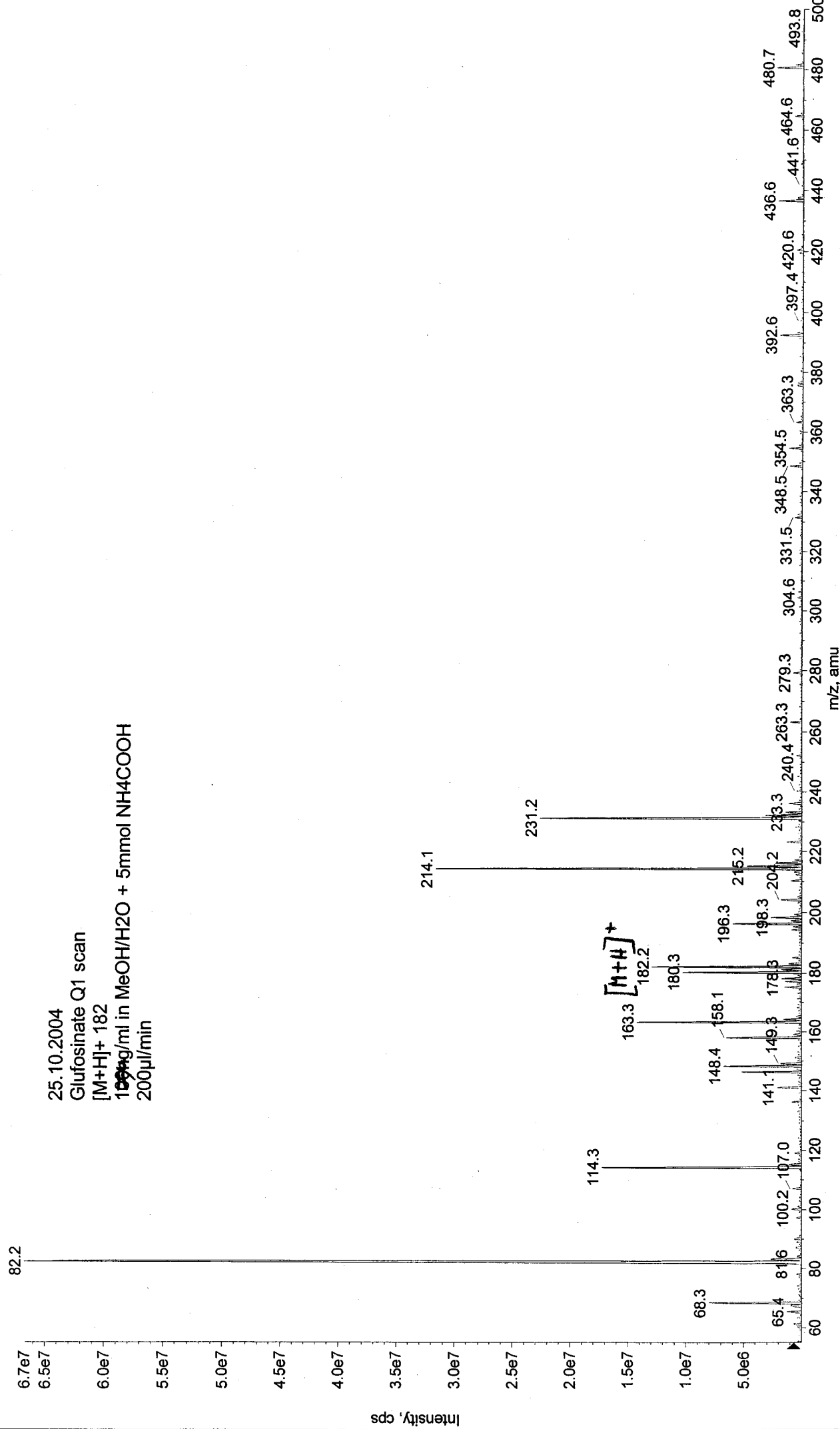
<sup>\*)</sup> For API 3000 and 4000 enhance DP by 20V

### Fragmentation



+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20041025134122.wiff (Turbo Spray)

Max. 6.7e7 cps.



25.10.2004  
Glufosinate Q1 scan  
[M+H]<sup>+</sup> 182  
1000 µg/ml in MeOH/H<sub>2</sub>O + 5mmol NH<sub>4</sub>COOH  
200 µl/min

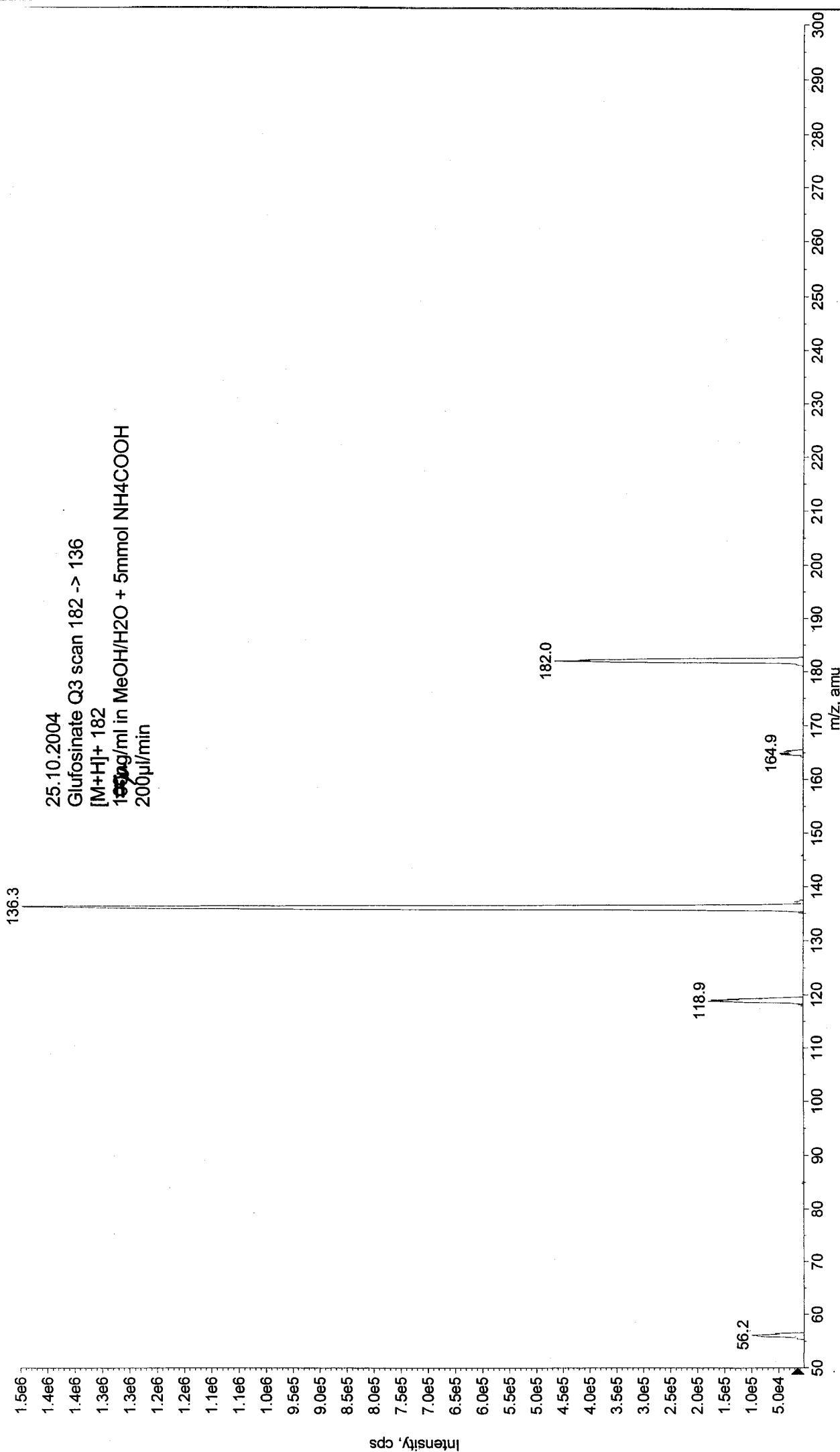
Printing Time: 13:49:09  
Printing Date: Monday, October 25, 2004

Acq. Time: 13:47  
Date: Monday, October 25, 2004  
File: MT20041025134707.wiff

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

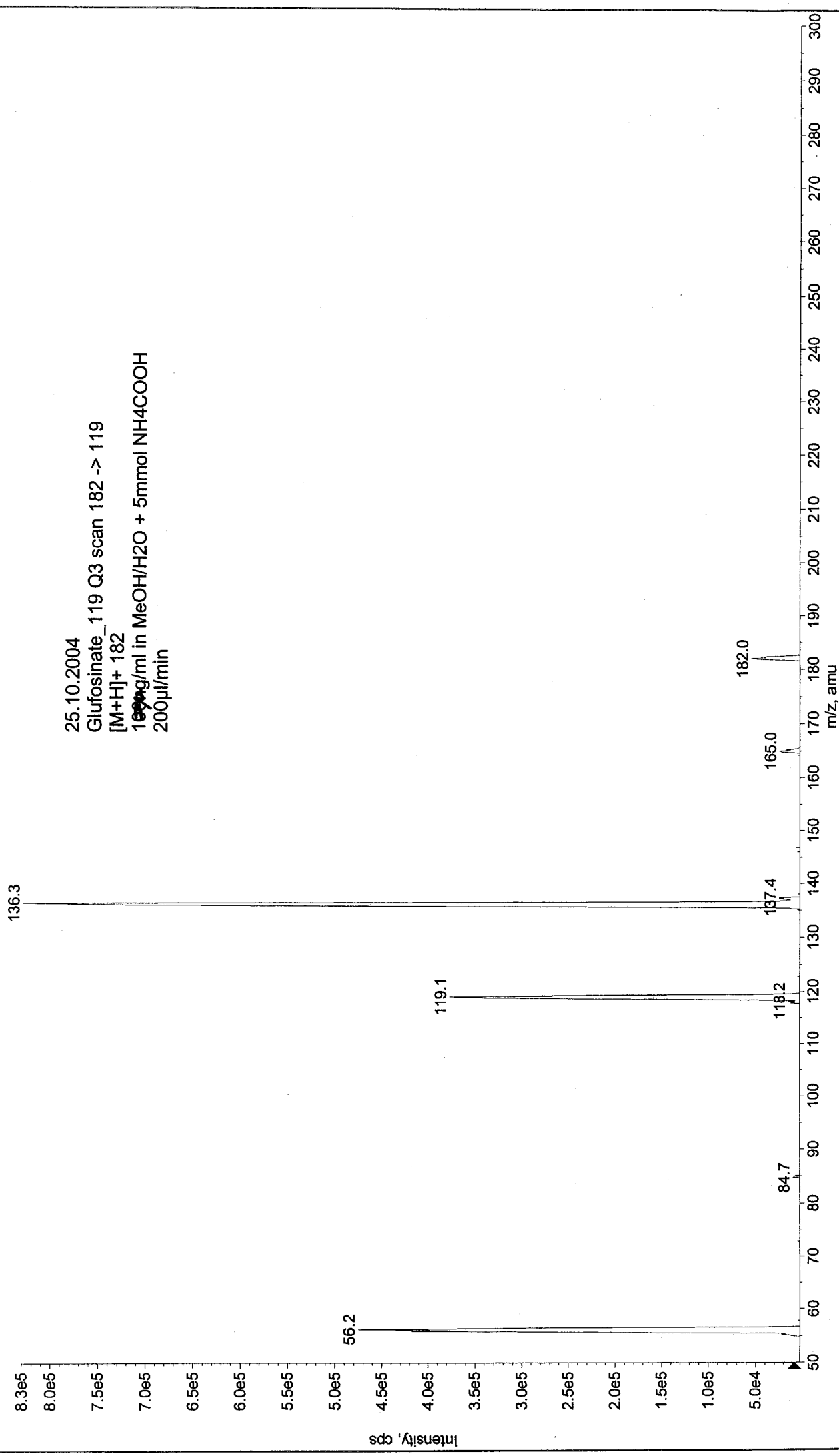
+MS2 (182.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20041025134707.wiff (Turbo Spray)

Max. 1.5e6 cps.



+MS2 (182.00): 30 MCA scans from Sample 1 (TuneSampleID) of MT20041025135807.wiff (Turbo Spray)

Max. 8.3e5 cps



25.10.2004  
Glufosinate\_119 Q3 scan 182 -> 119  
[M+H]<sup>+</sup> 182  
1000 µg/ml in MeOH/H<sub>2</sub>O + 5mmol NH<sub>4</sub>COOH  
200 µl/min