

**BfR**

Risiken erkennen – Gesundheit schützen

MS/MS Parameters of Pesticides

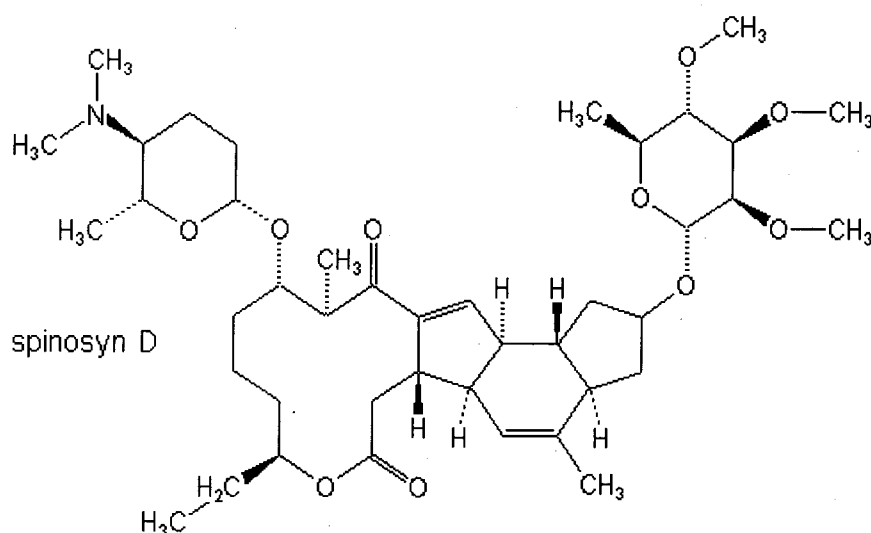
Analyte: Spinosyn D

CAS No.: 131929-63-0

Formula: C₄₂H₆₇NO₁₀

Molecular mass (lowest isotopes): 745,48 amu

Structure:



Ionisation: ESI +

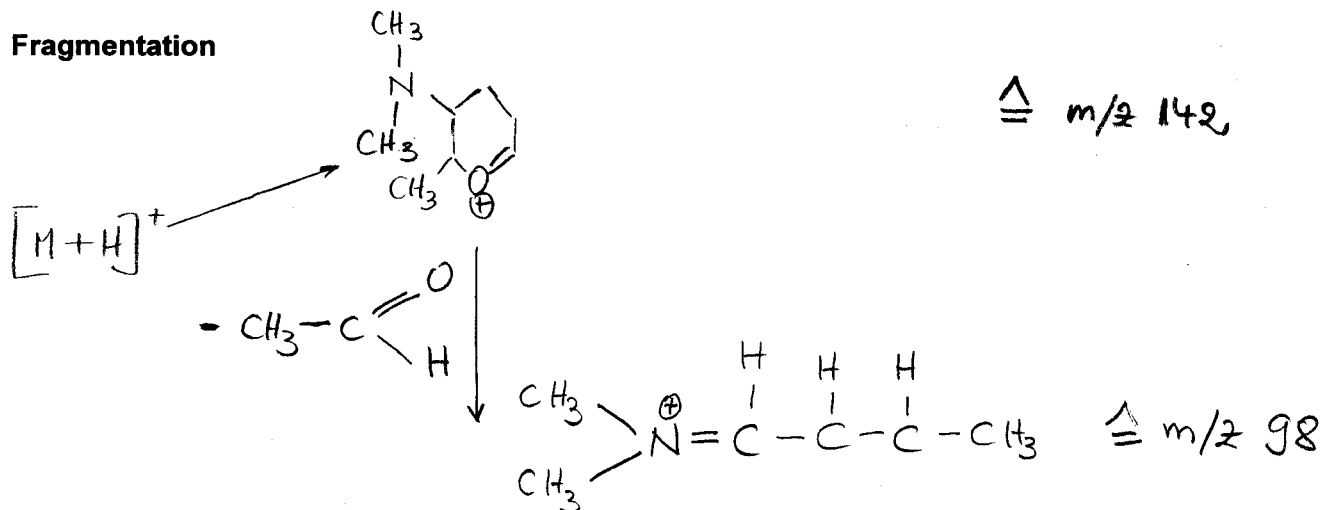
Quasimolecular ion: 746,5 amu = [M+H]⁺

Analyte sensitive parameter set (API 2000)

Transition	746,5 → 142,2	746,5 → 98,1
Declustering potential (DP) ^{*)}	61V	61 V
Focusing potential (FP)	370 V	370 V
Entrance potential (EP)	11,5 V	10,5 V
Collision cell entrance potential (CEP)	32 V	32 V
Collision energy (CE)	39 V	79 V
Collision cell exit potential (CXP)	8 V	6 V

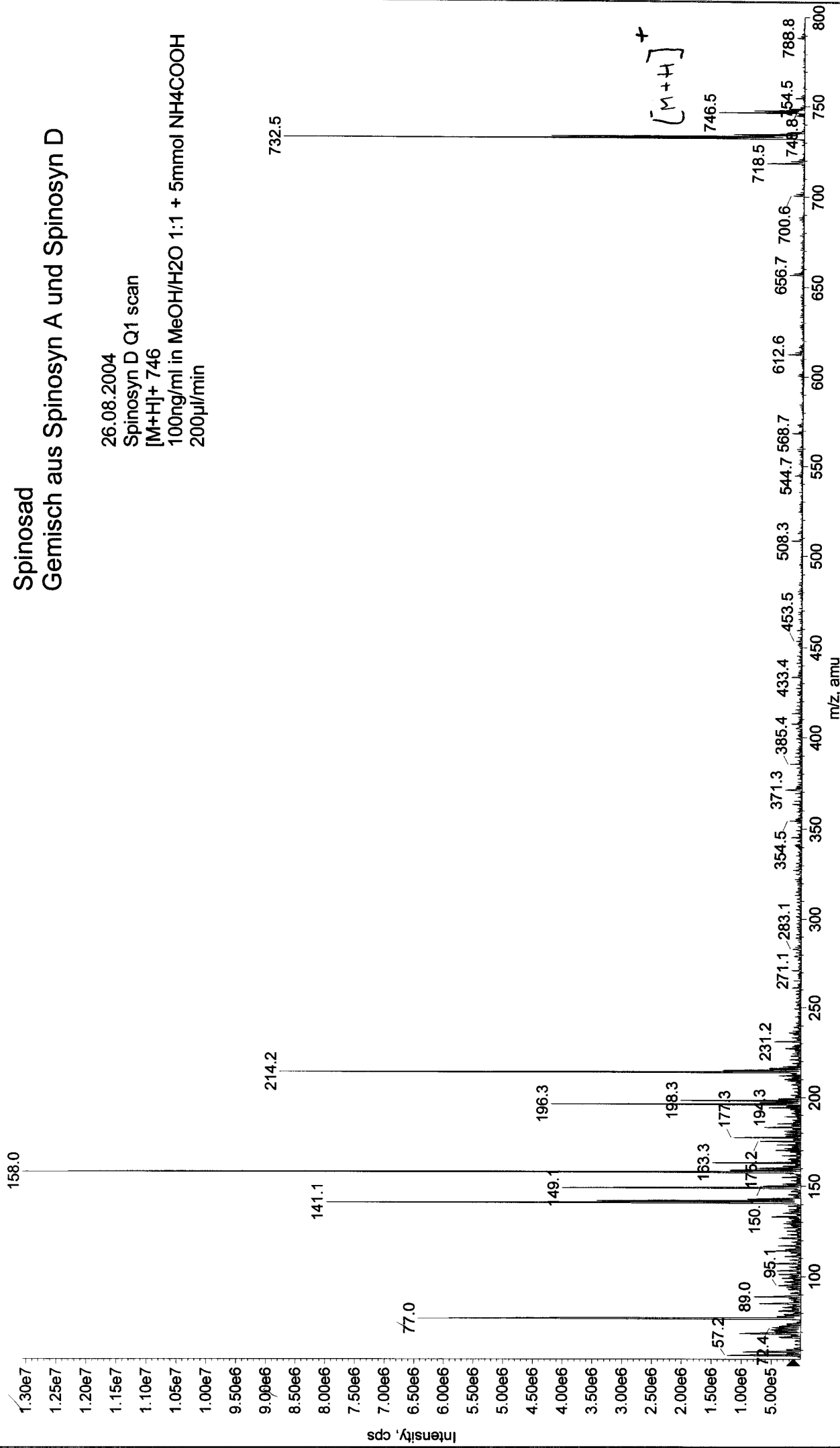
^{*)} For API 3000 and 4000 enhance DP by 20V

Fragmentation



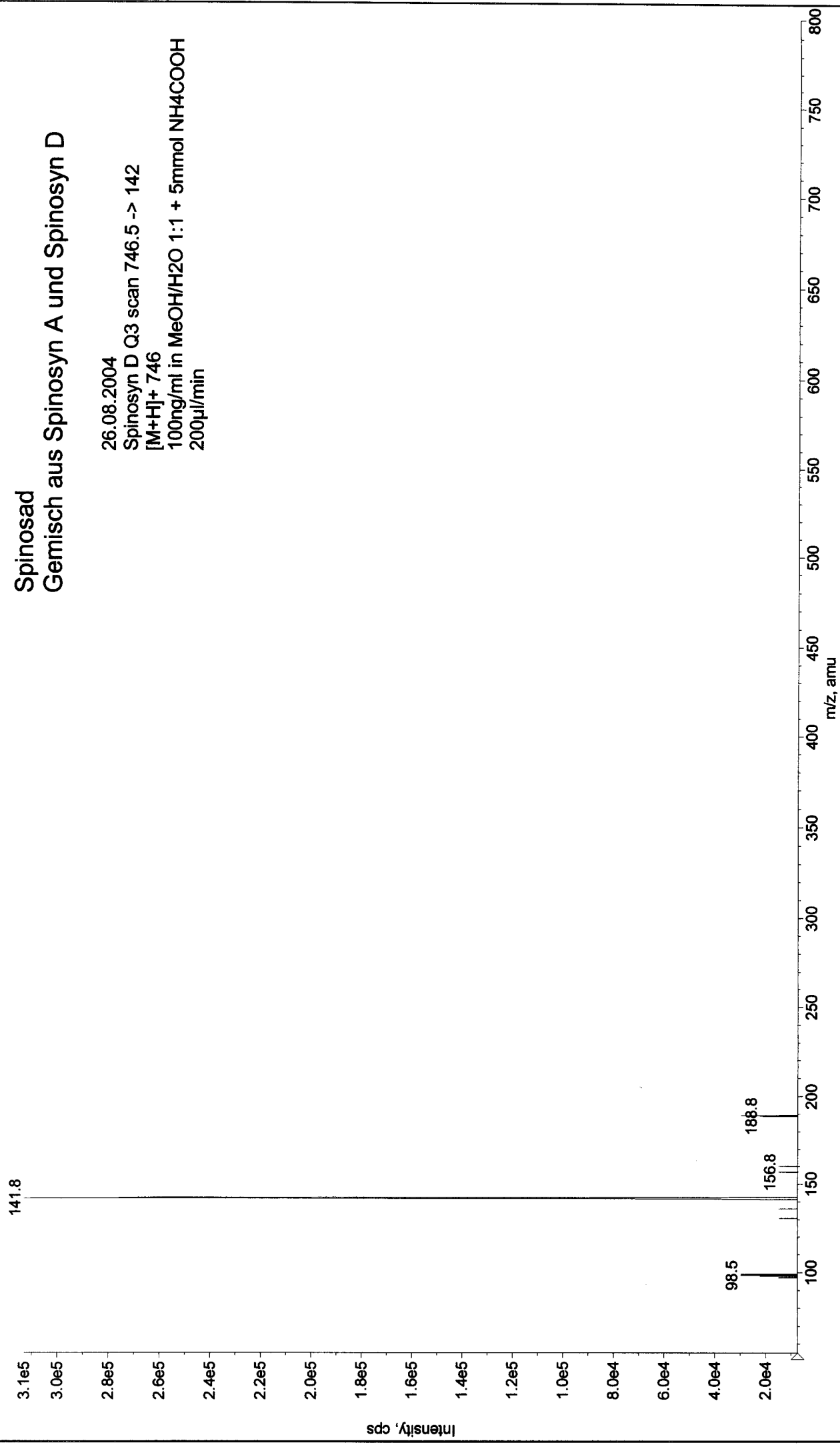
+Q1: 30 MCA scans from Sample 1 (TuneSampleID) of MT20040826114438.wiff (Turbo Spray)

Max. 1.3e7 cps



Max. 3.1e5 cps

+MS2 (746.50): 30 MCA scans from Sample 1 (TuneSampleID) of MT20040826114820.wiff (Turbo Spray)



Max. 1.2e5 cps

+MS2 (746.50): 30 MCA scans from Sample 1 (TuneSampleID) of MT20040826115902.wiff (Turbo Spray)

Spinosad Gemisch aus Spinosyn A und Spinosyn D

26.08.2004
Spinosyn D_98 Q3 scan 746.5 -> 98
[M+H]⁺ 746
100ng/ml in MeOH/H₂O 1:1 + 5mmol NH₄COOH
200µl/min

