

Supplementary material

Euphosantianane E–G: Three new premyrsinane type diterpenoids from *Euphorbia sanctae-catharinae* with contribution to chemotaxonomy

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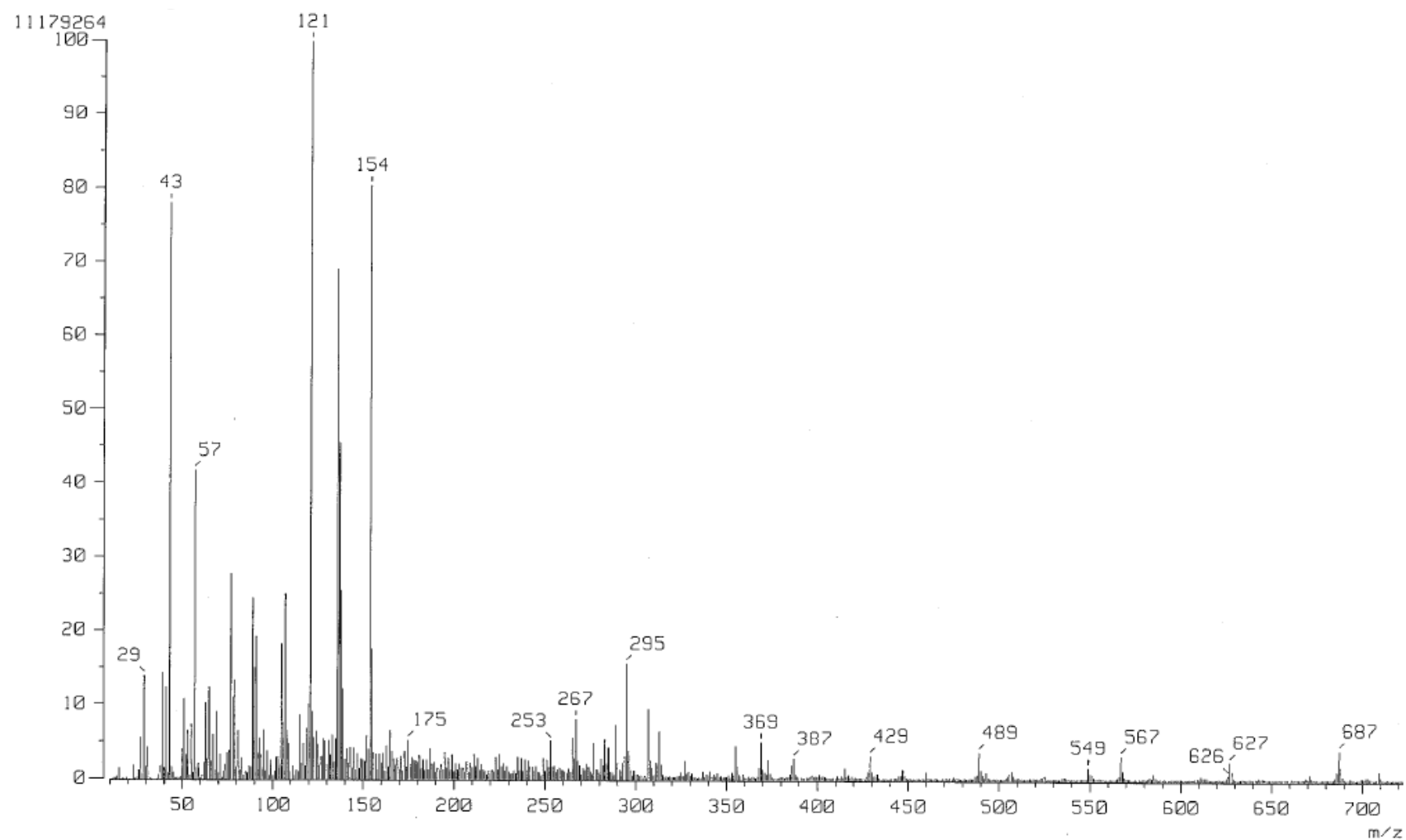
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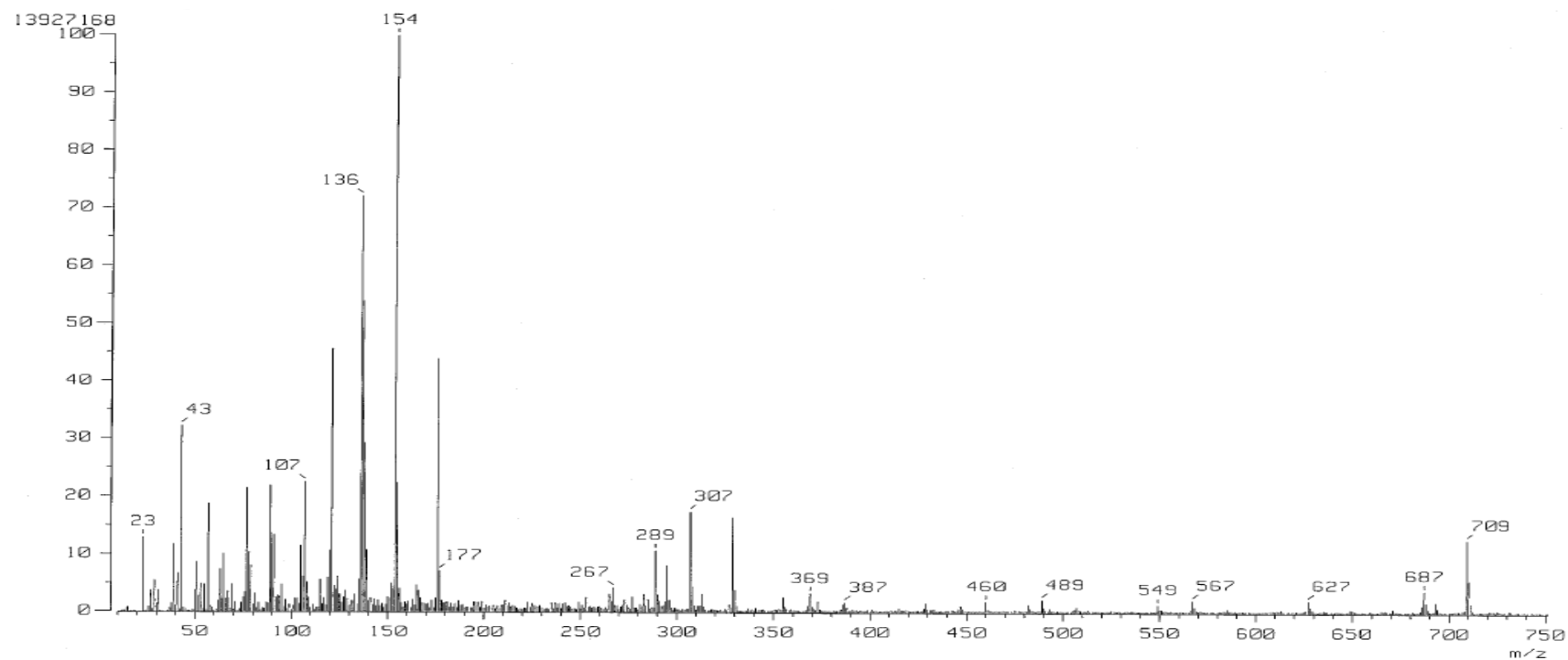
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S1: FAB-MS of 1



S2: FAB-MS of 1

Date : 16-Jul-2018 14:42

Instrument: MS700D

Sample: ESS-12

Note: MStation

Inlet: Direct Ion Mode: FAB+

RT: 4.16 min Scan#: 19

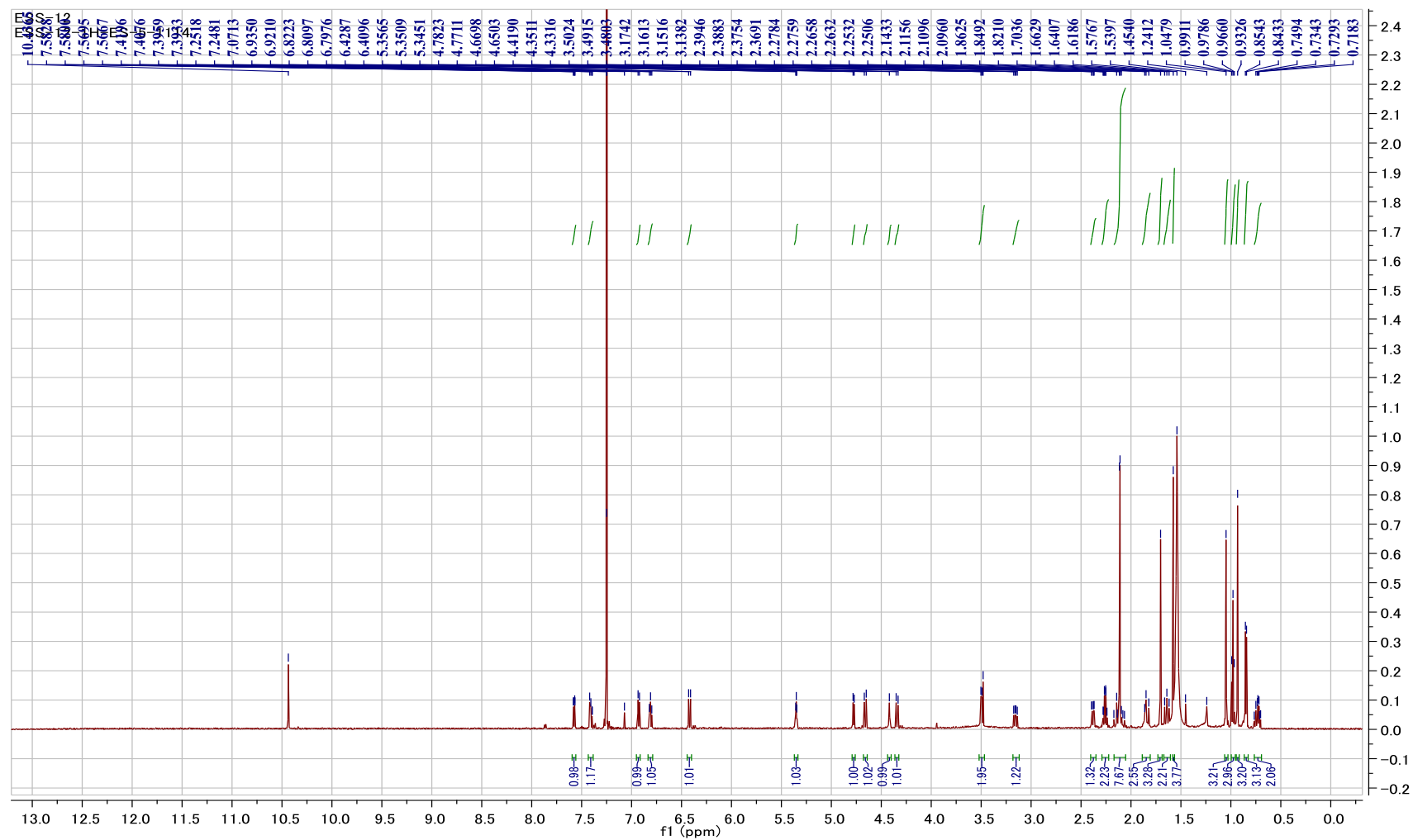
Elements: C 150/0, H 250/0, O 50/0

Mass Tolerance: 5mmu

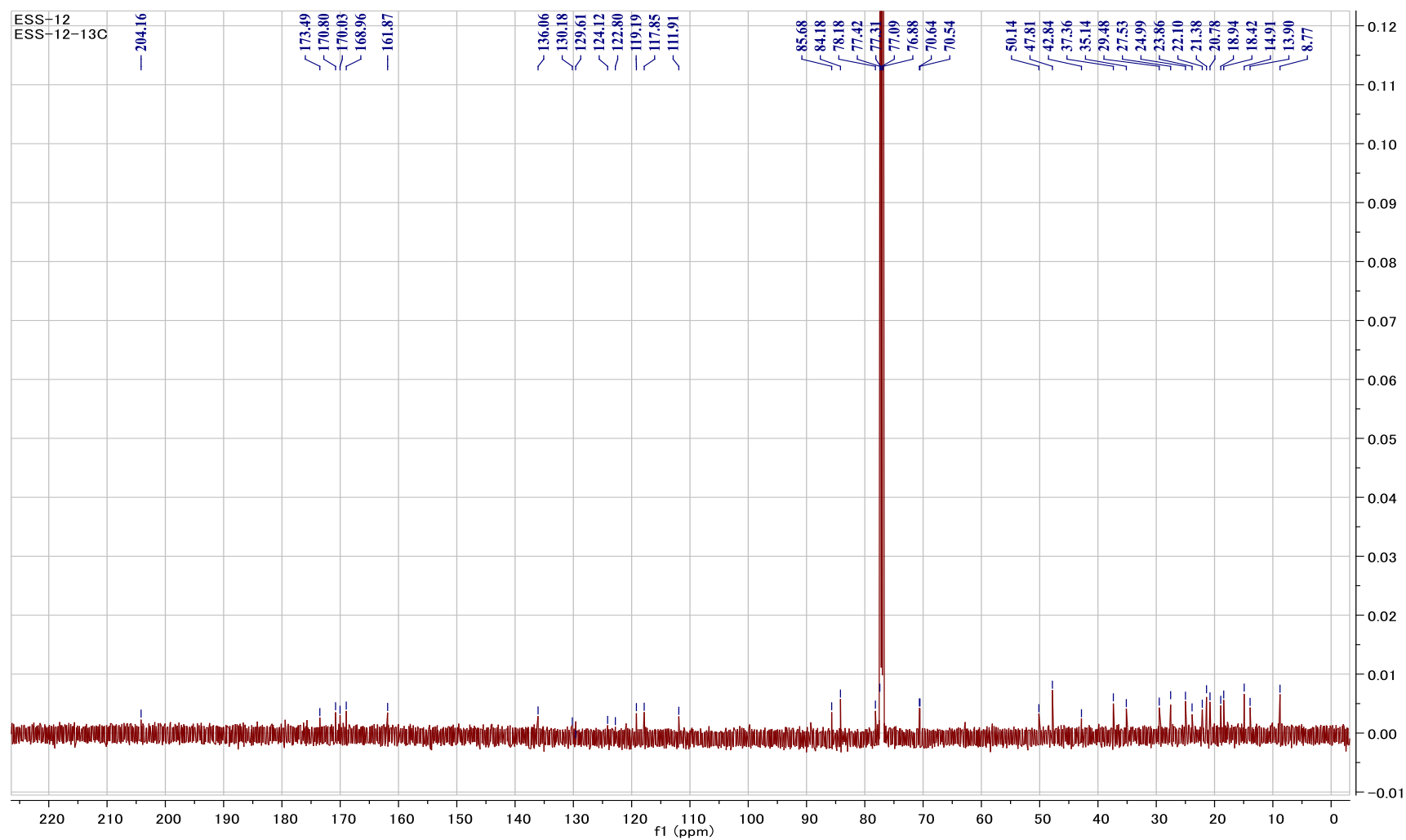
Unsaturation (U.S.): 0.0 - 15.0

Observed m/z	Int %	Err. [ppm / mmu]	U.S.	Composition
1 709.2930	100.00	-1.1 / -0.6	13.5	C36 H46 O13 Na

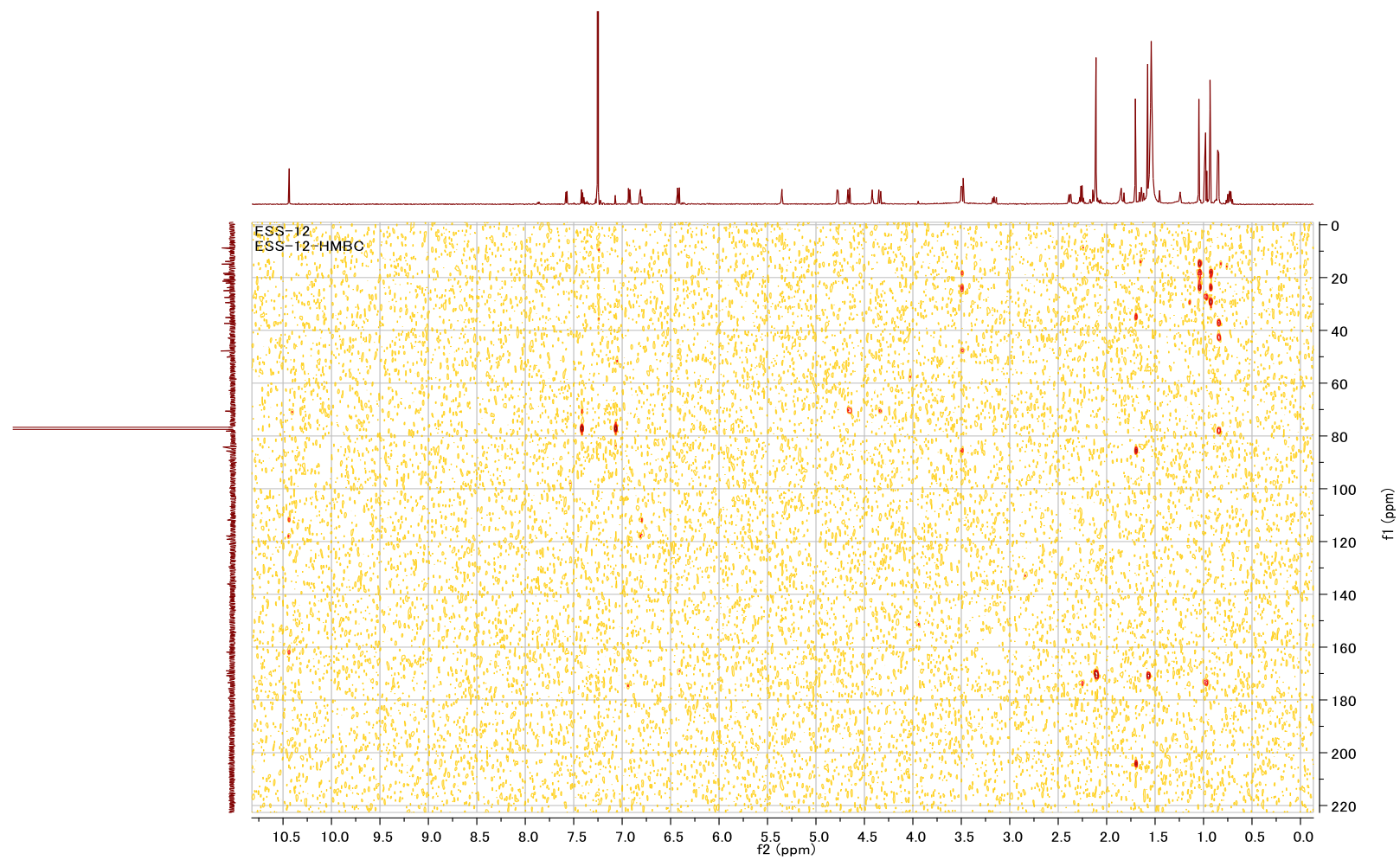
S3: HR-FAB-MS of 1



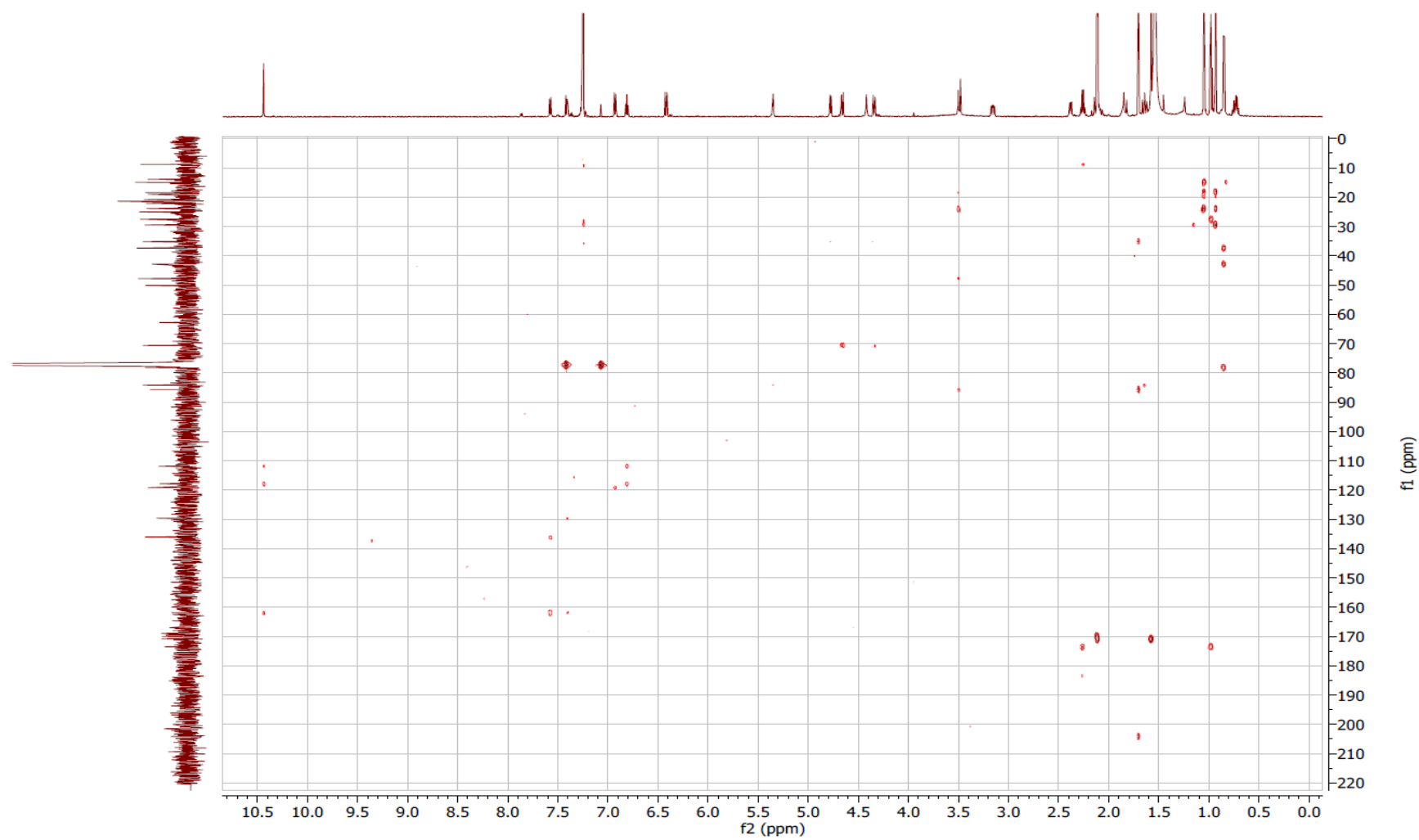
S4: ^1H NMR (600 Hz, CDCl_3) of **1**



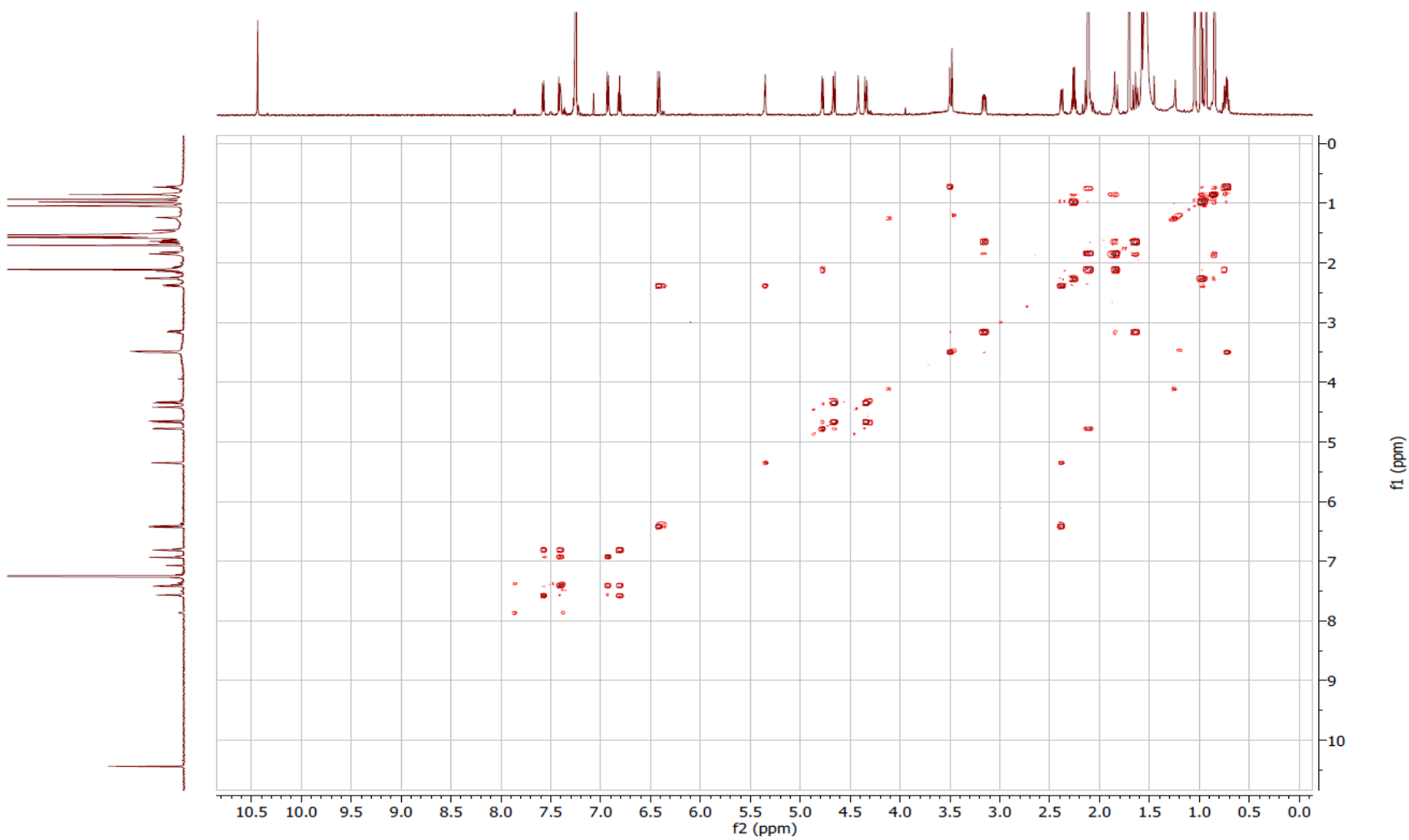
S5: ¹³C NMR (600 Hz, CDCl₃) of **1**



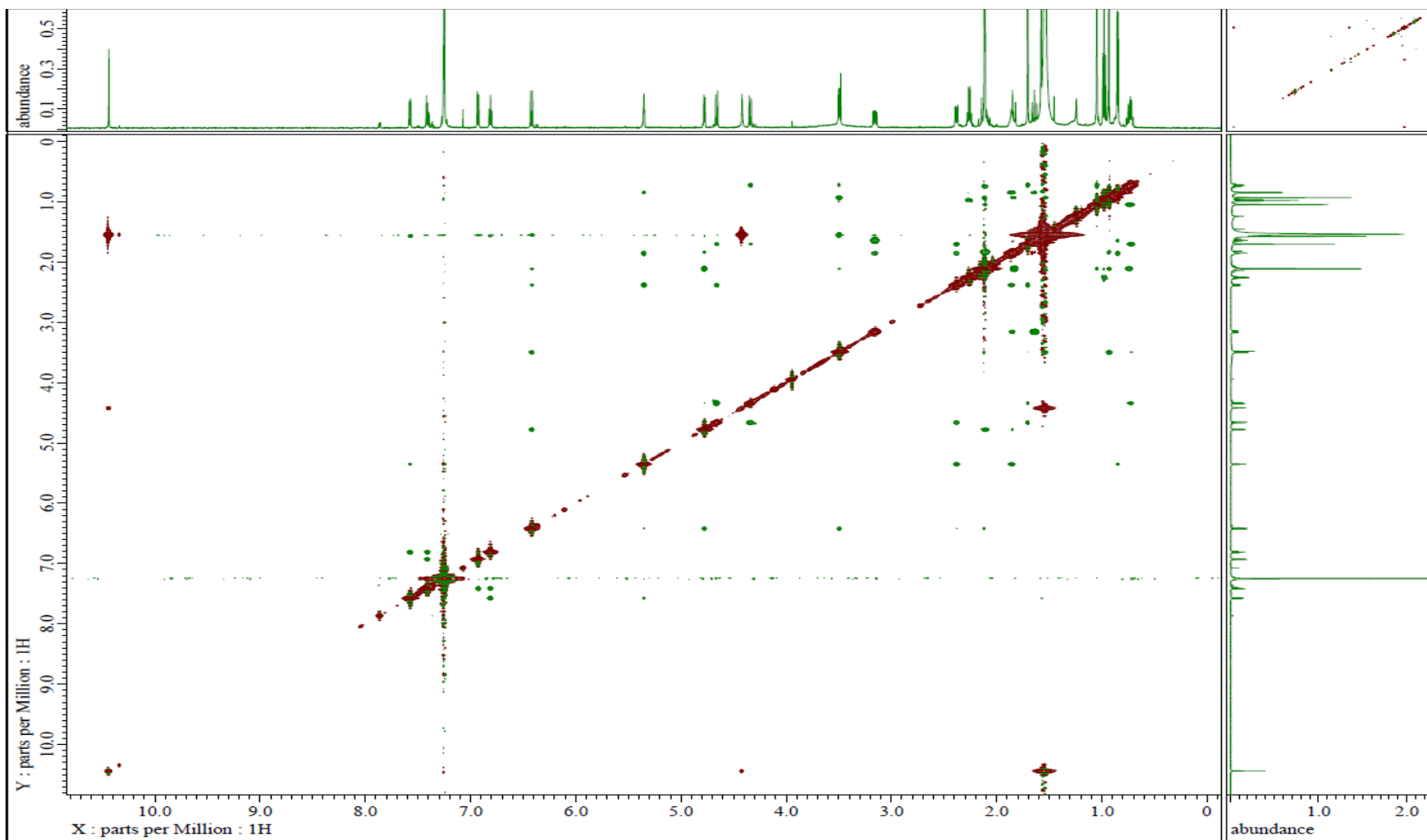
S6: HMQC (CDCl_3) of **1**



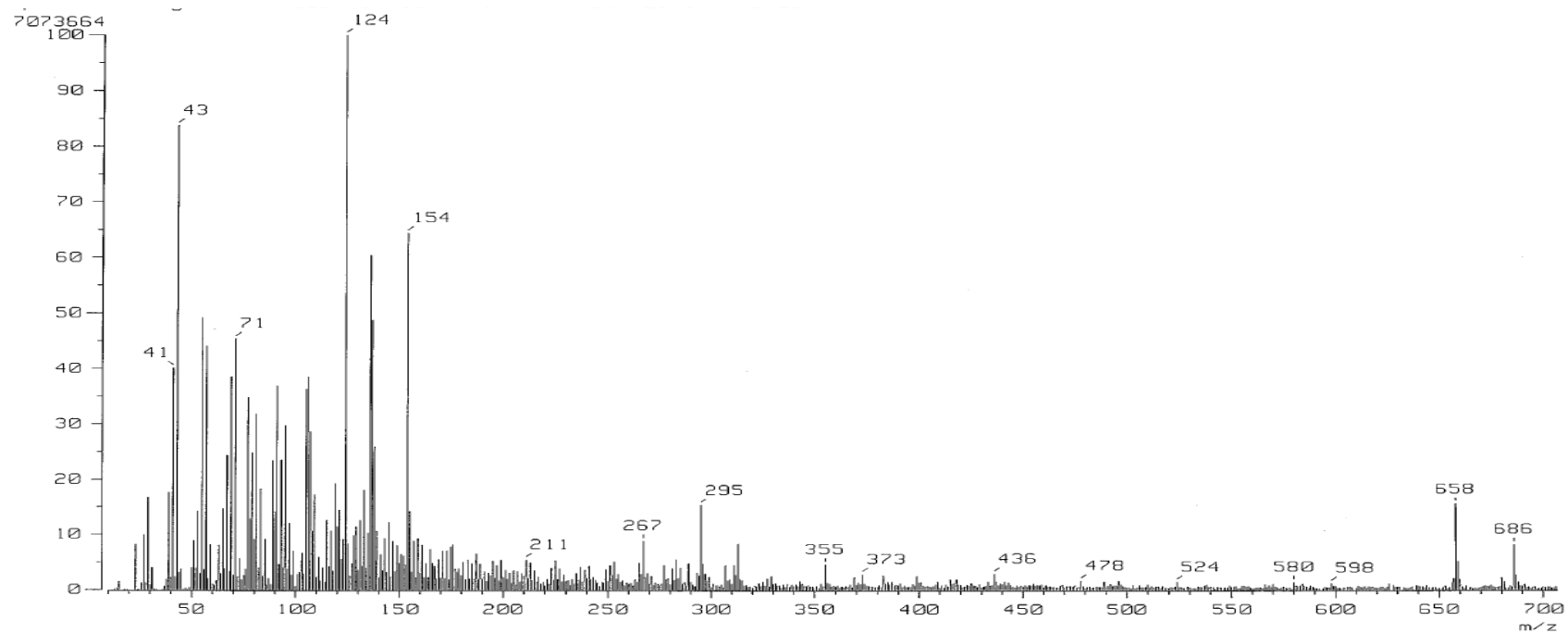
S7: HMBC (CDCl₃) of **1**



S8: ^1H ^1H COSY (CDCl_3) of **1**



S9: NOESY (CDCl₃) of 1

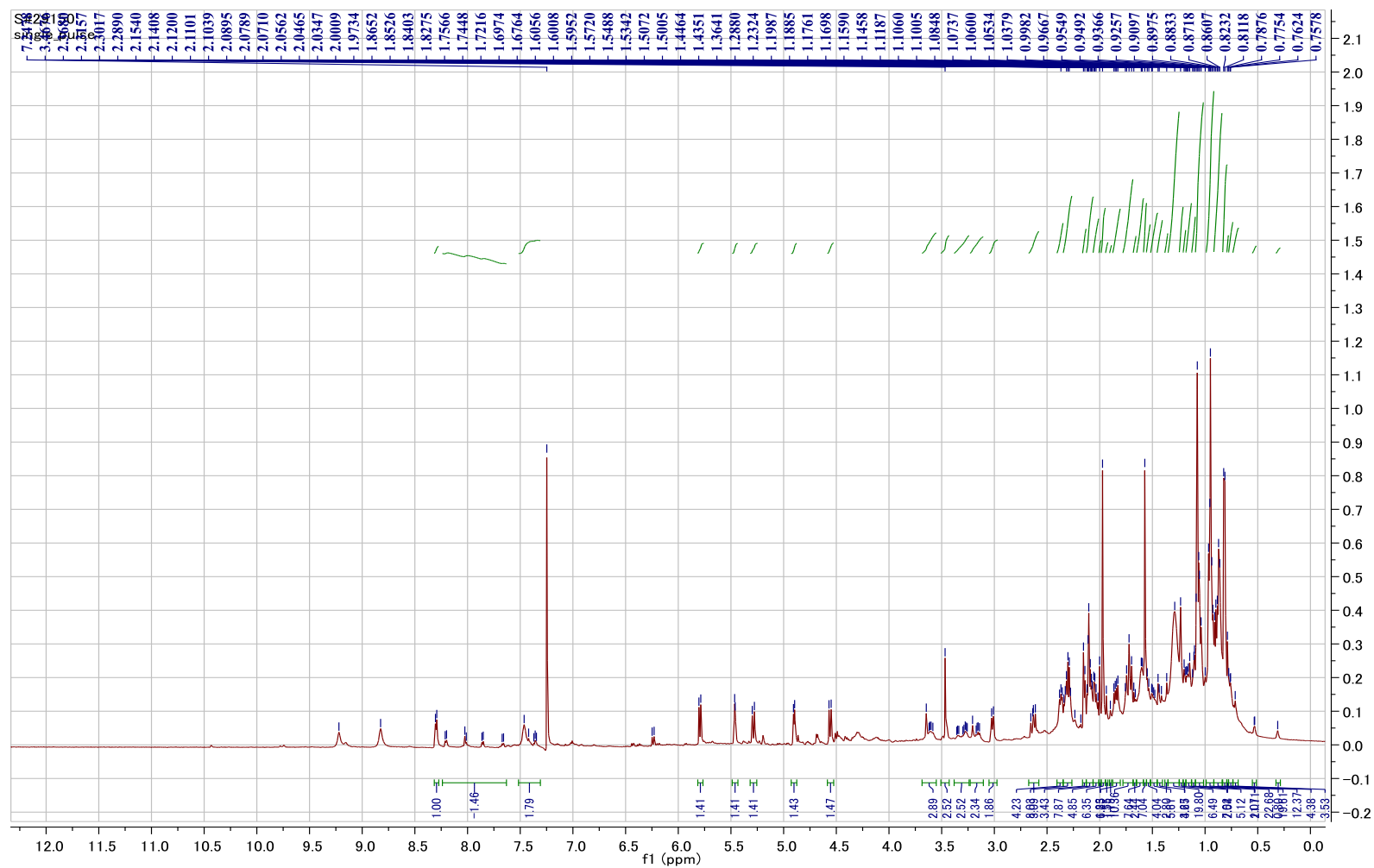


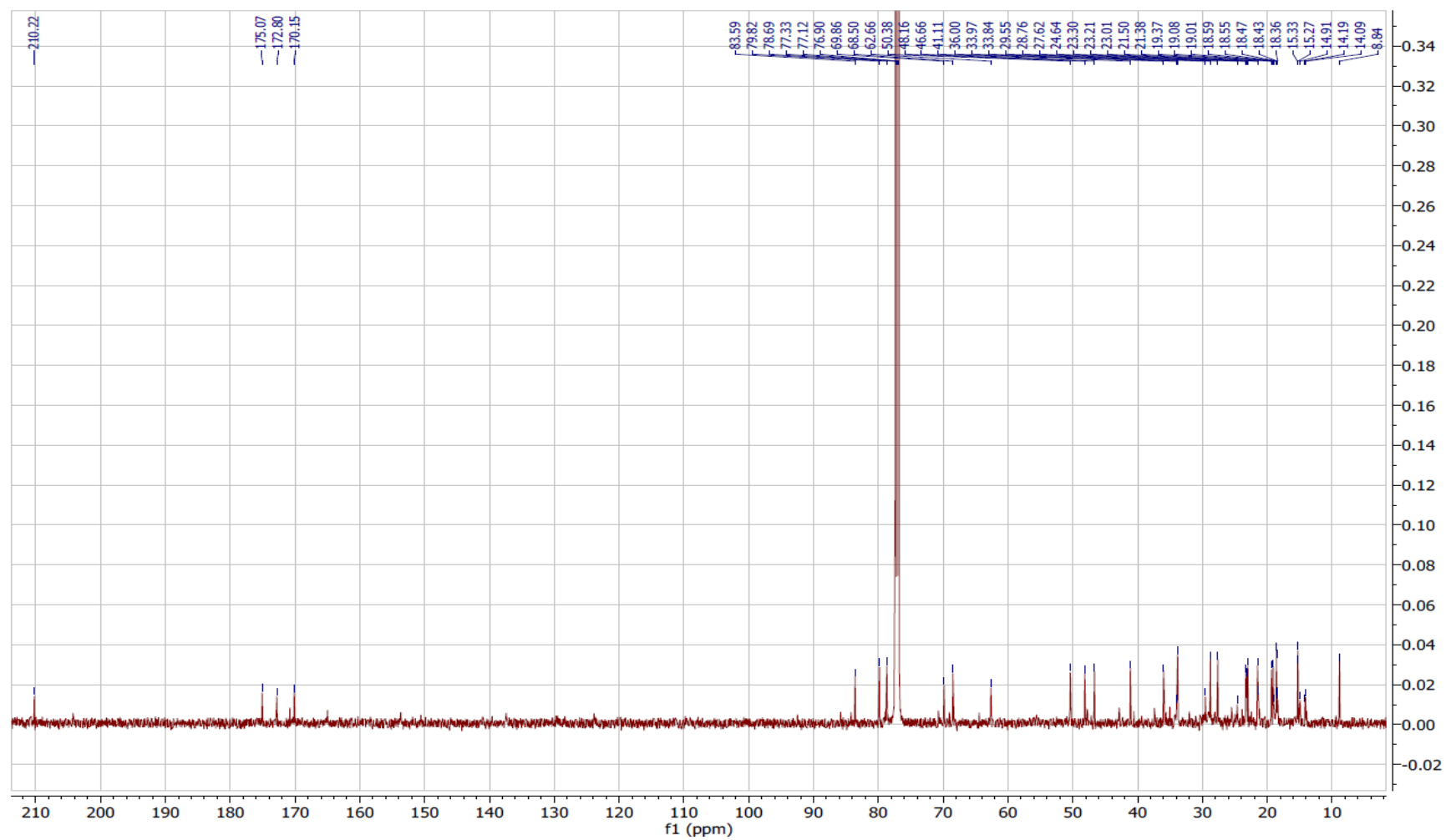
S10: FAB-MS of 2

Date : 23-Jul-2018 16:12
 Instrument: MS700D
 Sample: ESS-23
 Note: MStation
 Inlet: Direct Ion Mode: FAB+
 RT: 3.24 min Scan#: 19
 Elements: C 150/0, H 250/0, O 50/0
 Mass Tolerance: 5mmu
 Unsaturation (U.S.): 0.0 - 15.0

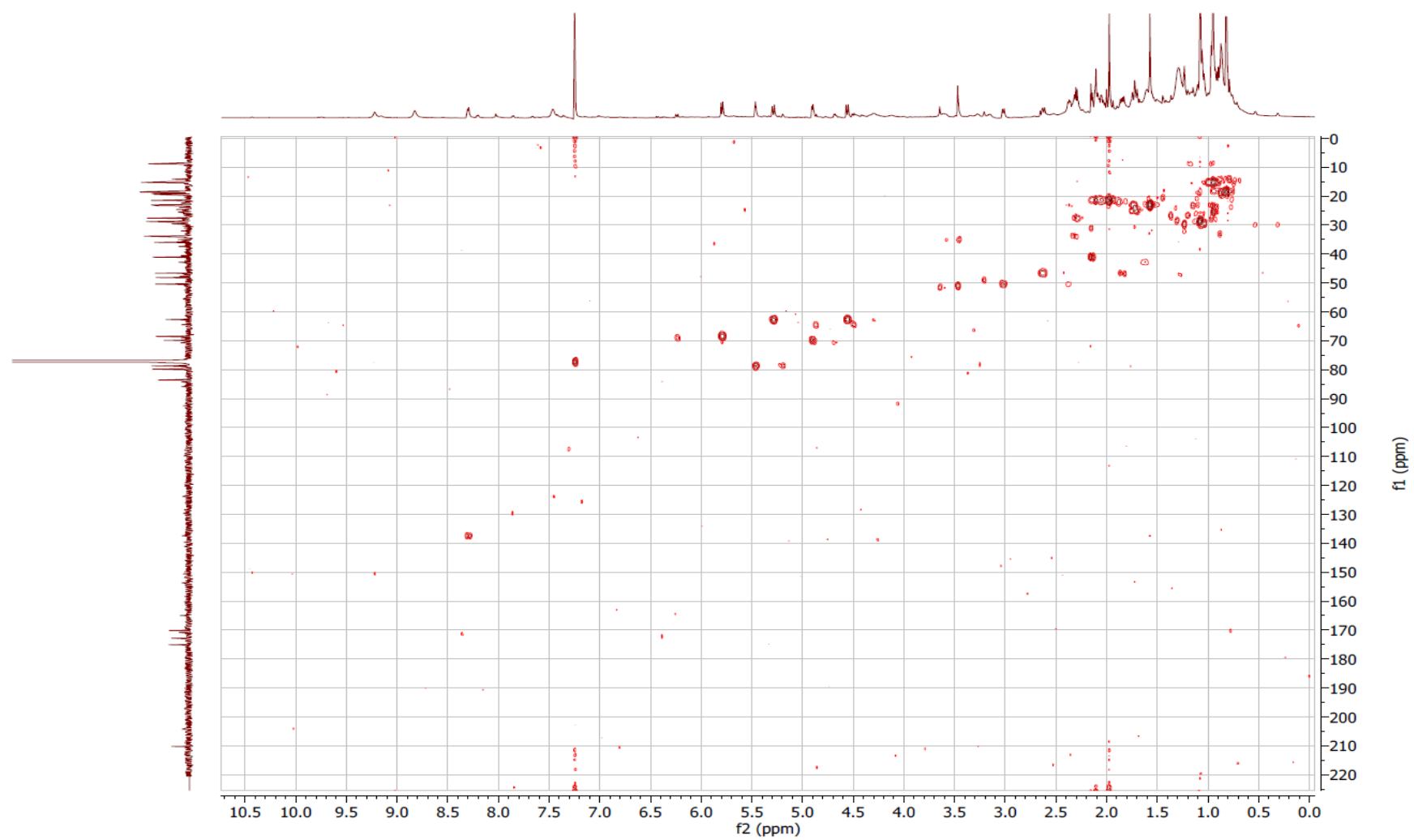
Observed m/z	Int %	Err. [ppm 1 mmu]	U.S	Composition
1 685.3089	100.00	-1.1 / -0.6	13.5	C36 H47 N O12

S11: HR-FAB-MS of 2

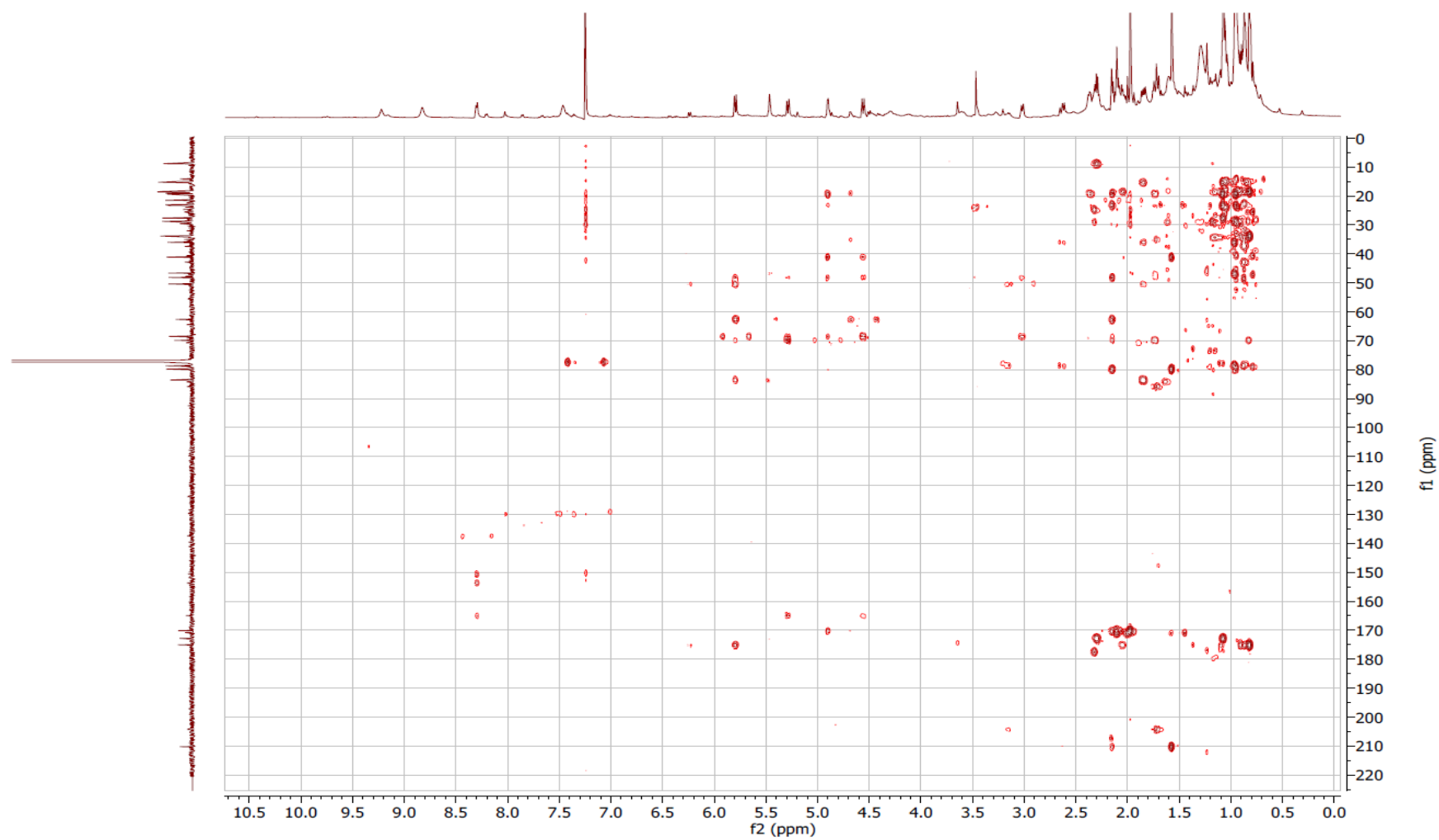




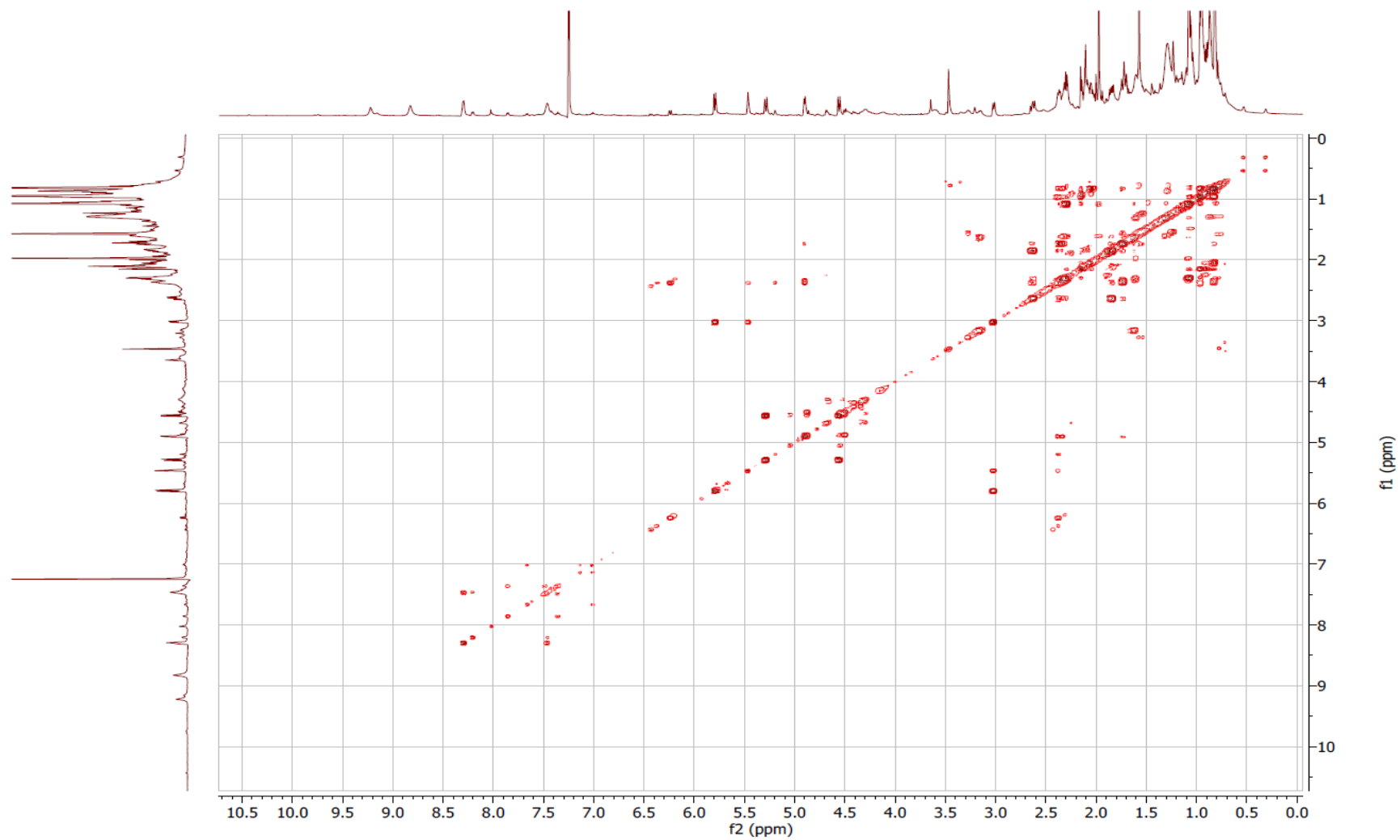
S13: ¹³C NMR (600 Hz, CDCl₃) of 2



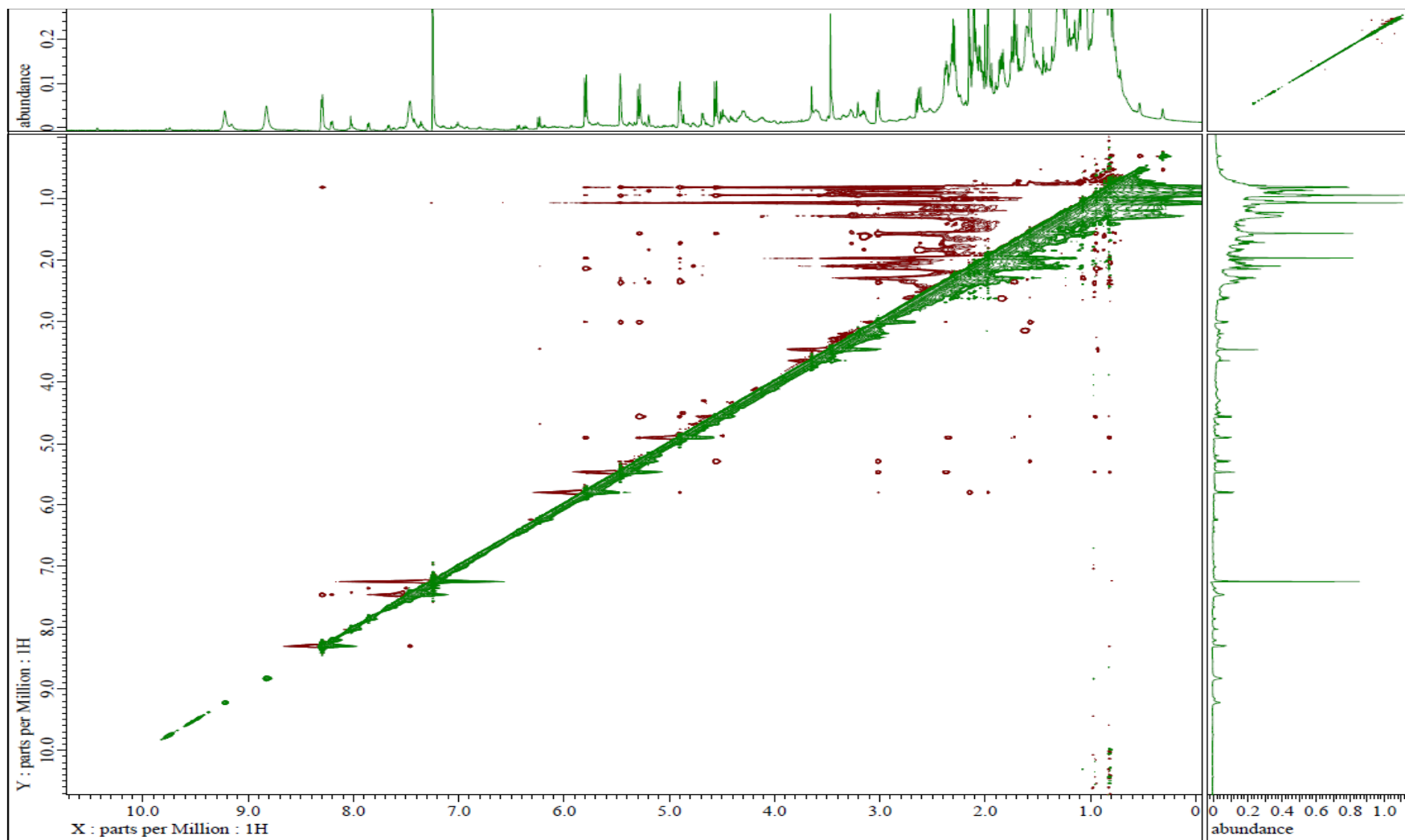
S14: HMQC (CDCl₃) of 2



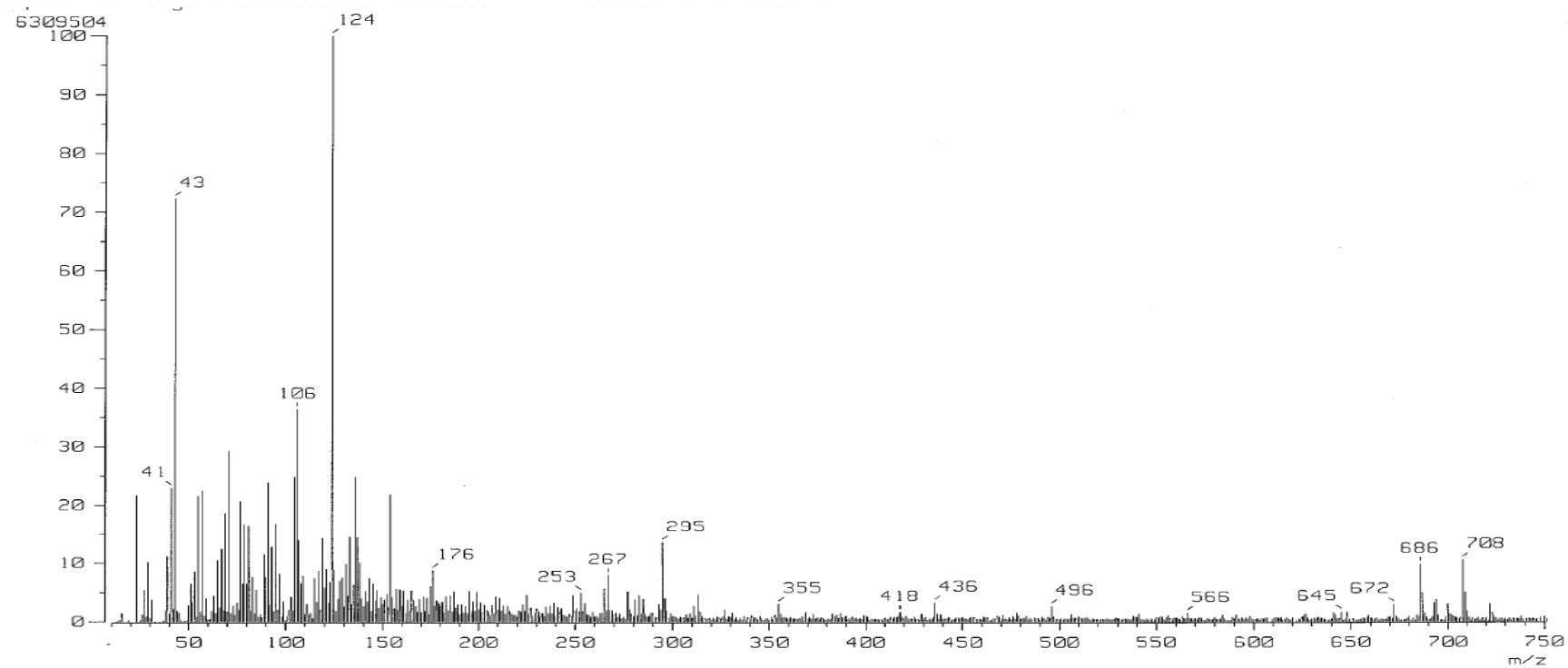
S15: HMBC (CDCl_3) of 2



S16: ^1H ^1H COSY (CDCl_3) of **2**



S17: NOESY (CDCl₃) of 2

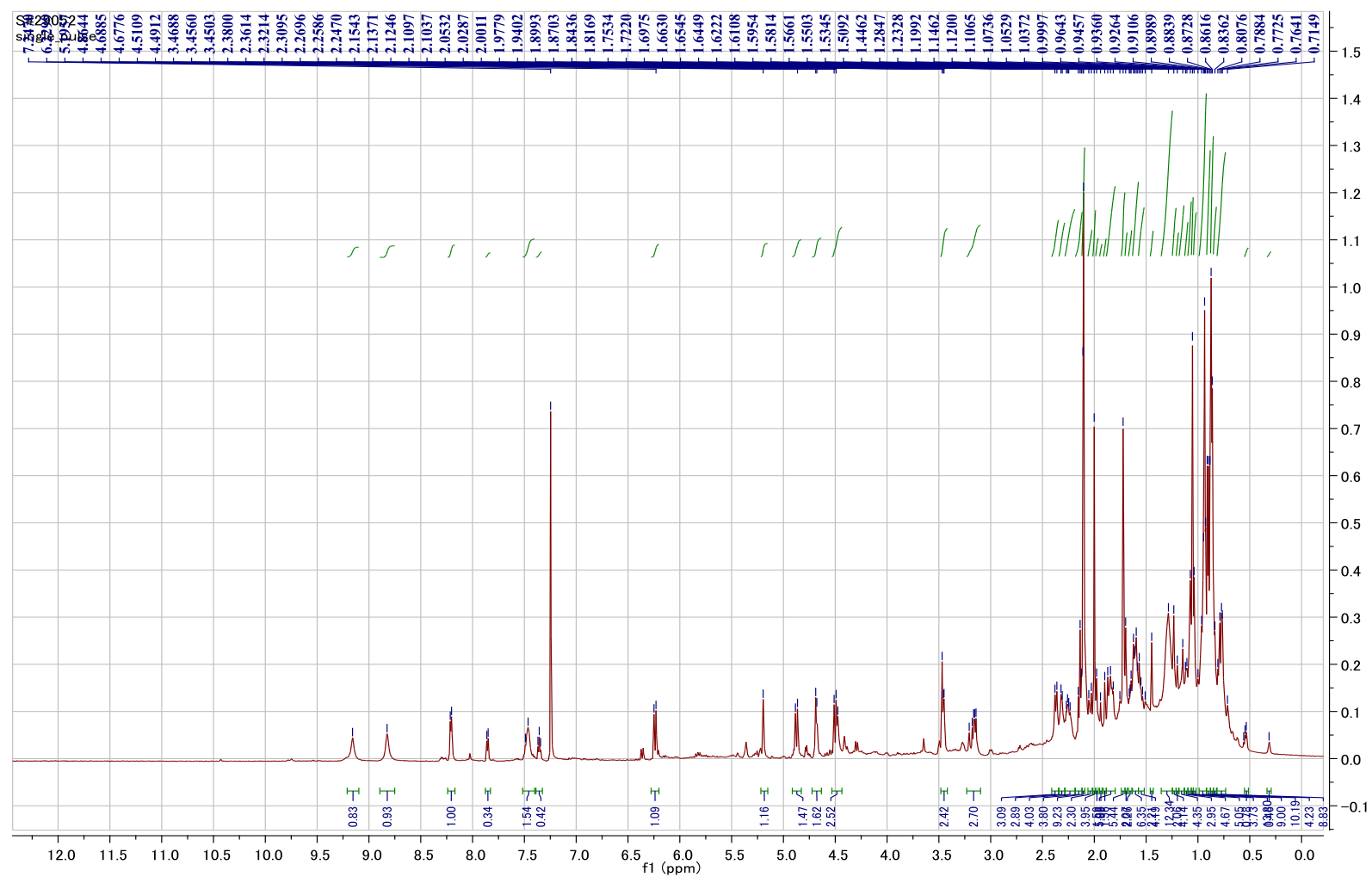


S18: FAB-MS of 3

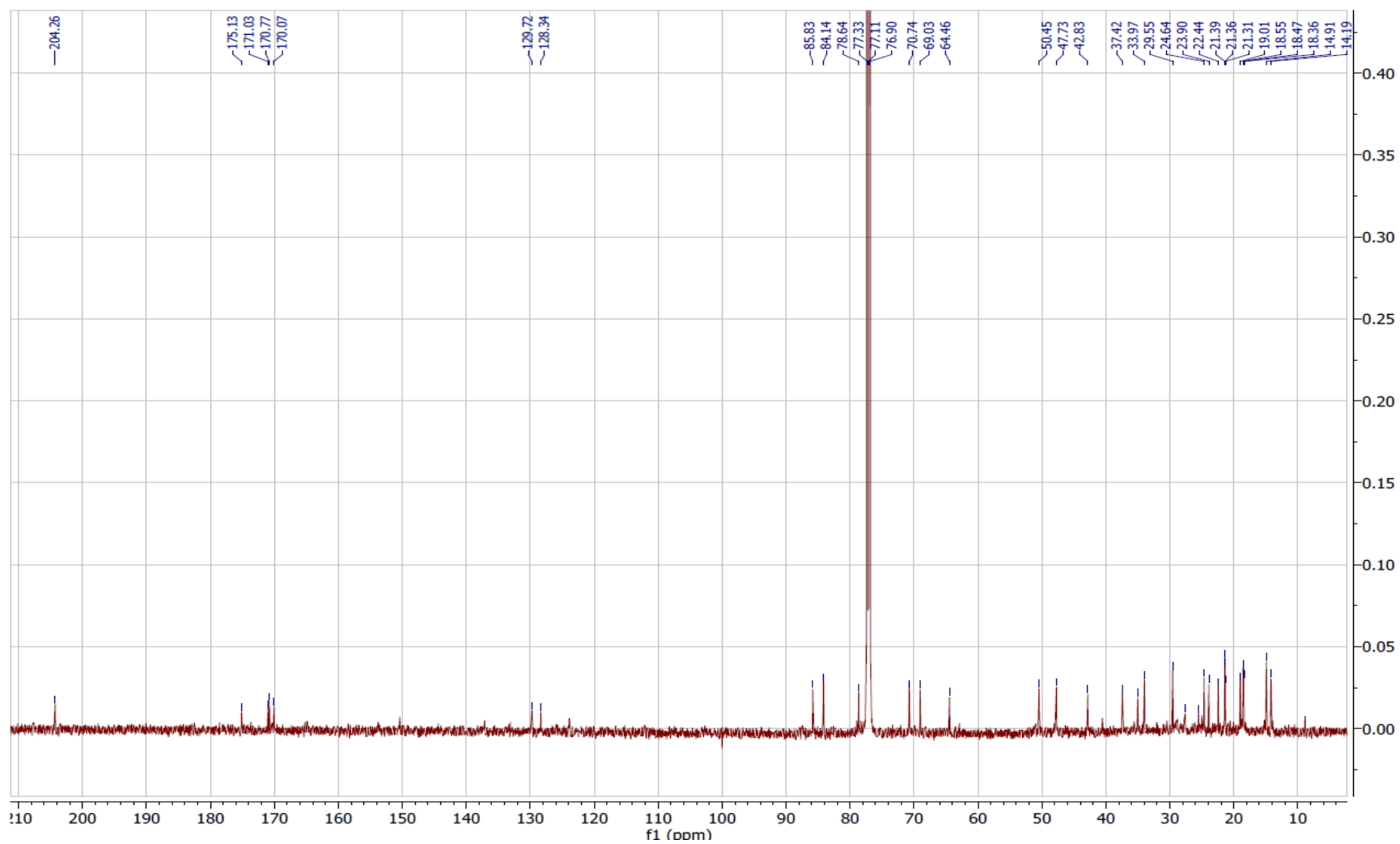
Date : 28-Jul-2018 17:31
 Instrument: MS700D
 Sample: ESS-21
 Note: MStation
 Inlet: Direct Ion Mode: FAB+
 RT: 3.76 min Scan#: 19
 Elements: C 150/0, H 250/0, O 50/0
 Mass Tolerance: 5mmu
 Unsaturation (U.S.): 0.0 - 15.0

Observed m/z	Int %	Err. [ppm mmu]	U.S.	Composition
1 708.3090	100.00	-1.1 -0.6	13.5	C ₃₆ H ₄₇ N O ₁₂ Na

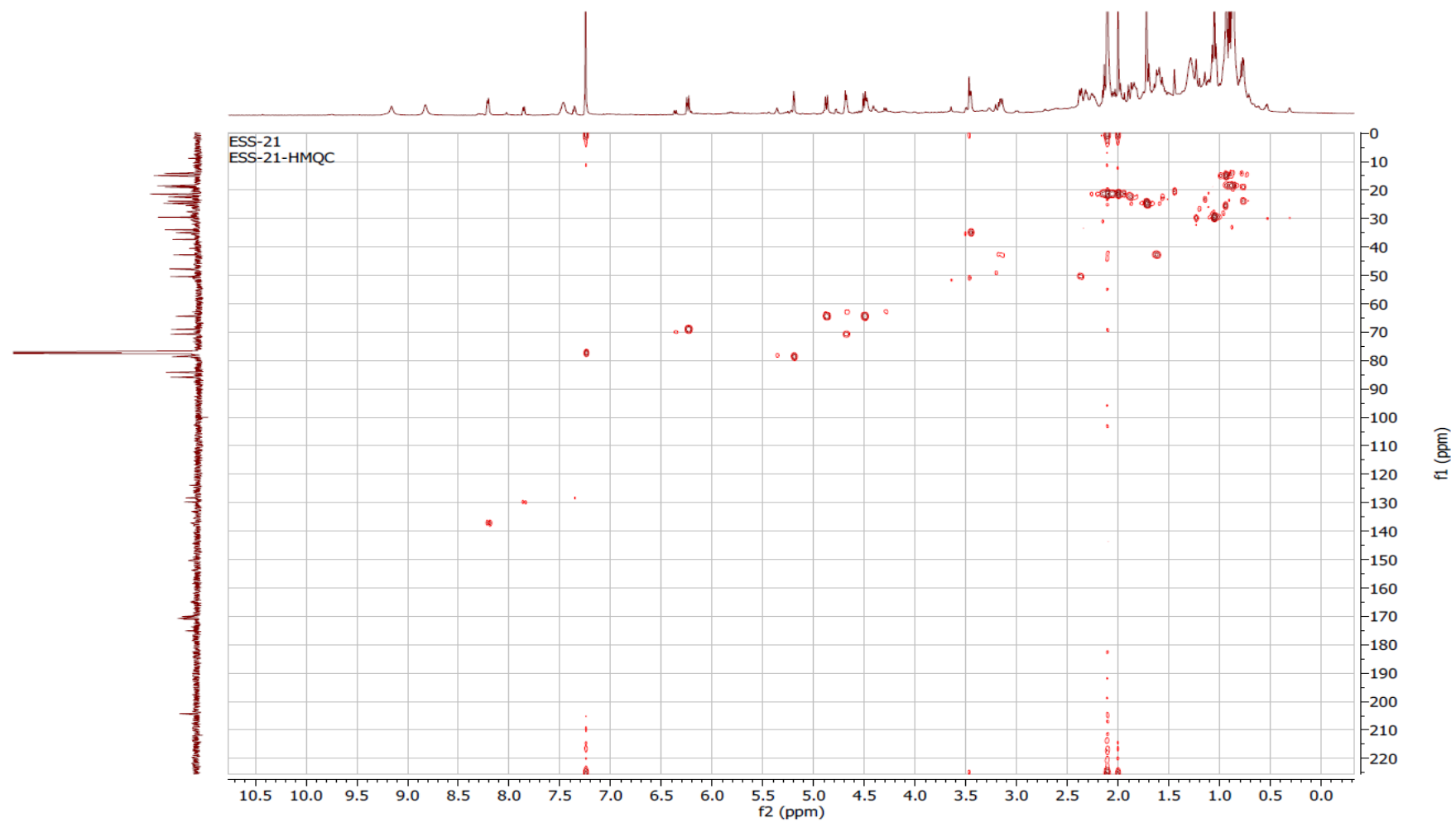
S19: FAB-MS of 3



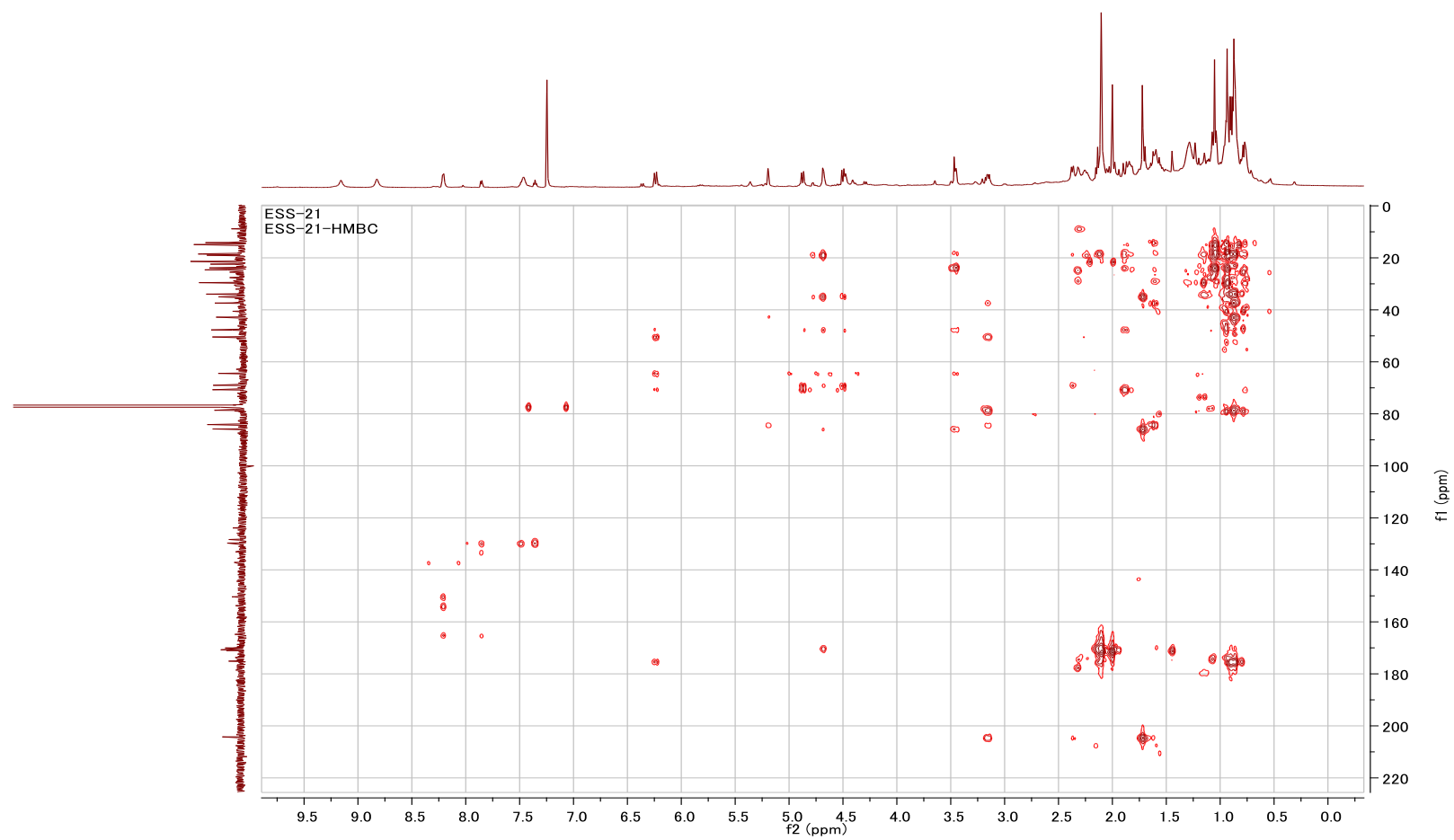
S20: ^1H NMR (600 Hz, CDCl_3) of **3**



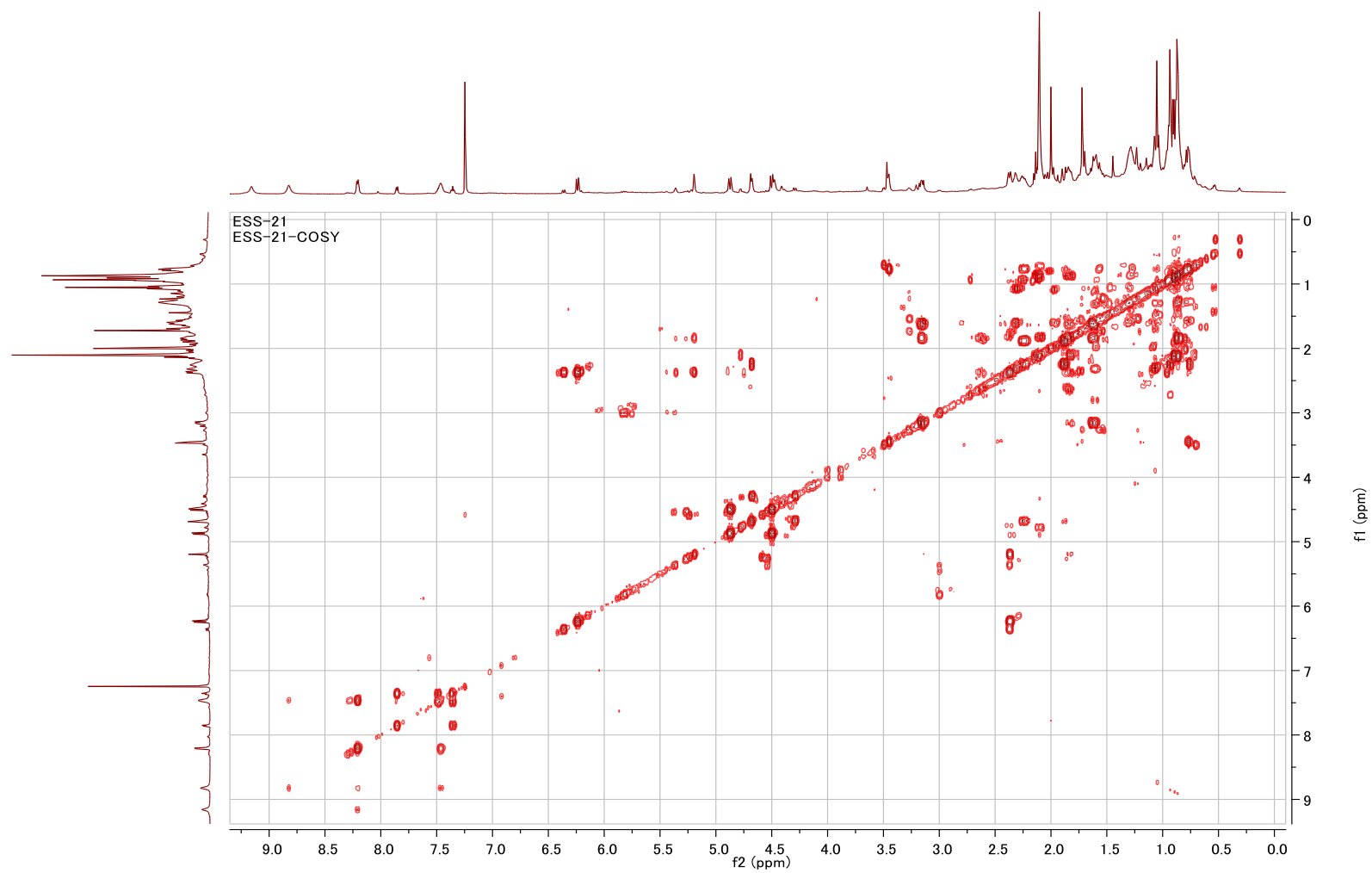
S21: ^{13}C NMR (600 Hz, CDCl_3) of 3



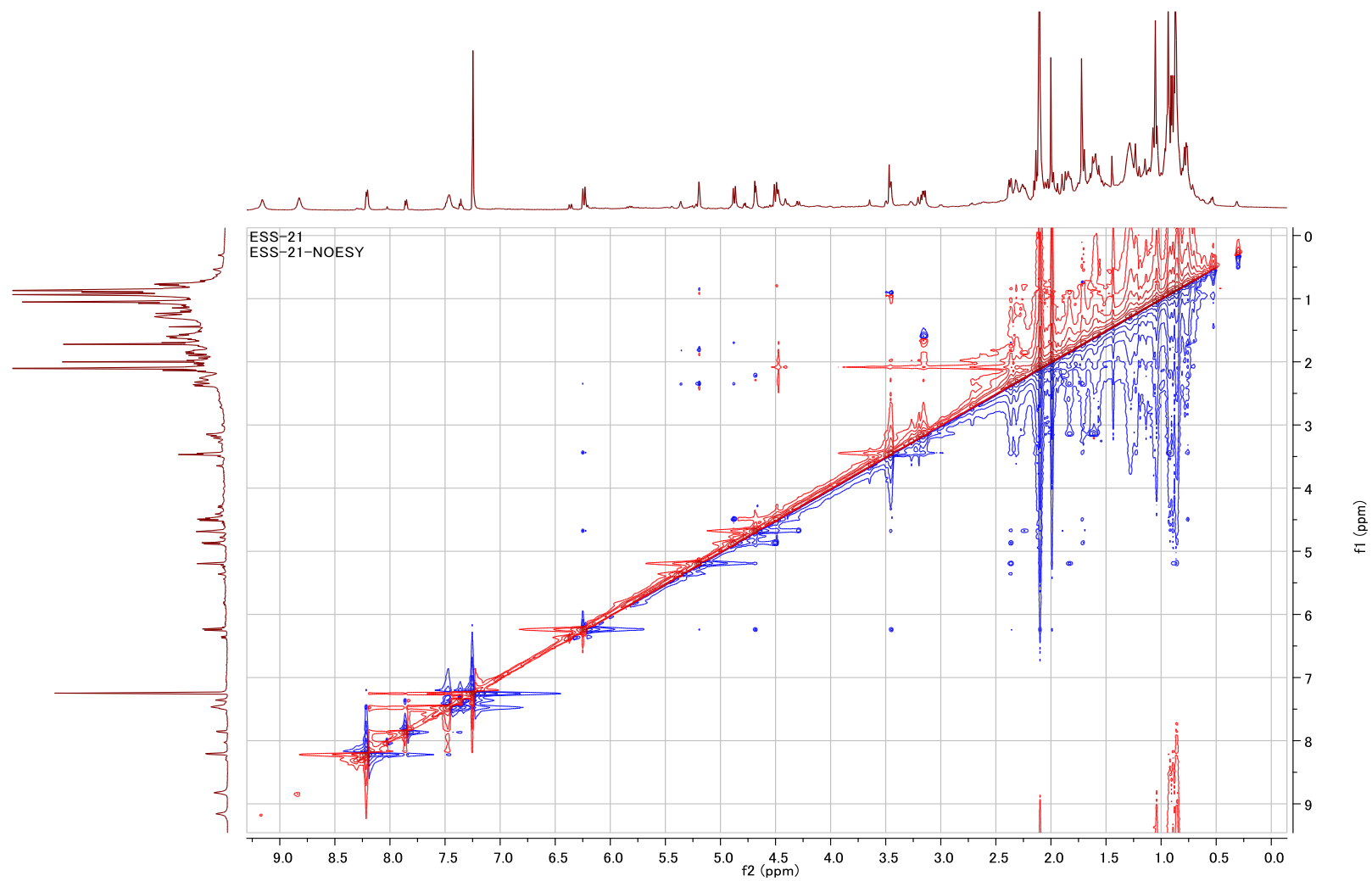
S22: HMQC of 3



S23: HMBC of 3



S24: ^1H - ^1H COSY of **3**



S25: NOESY of 3