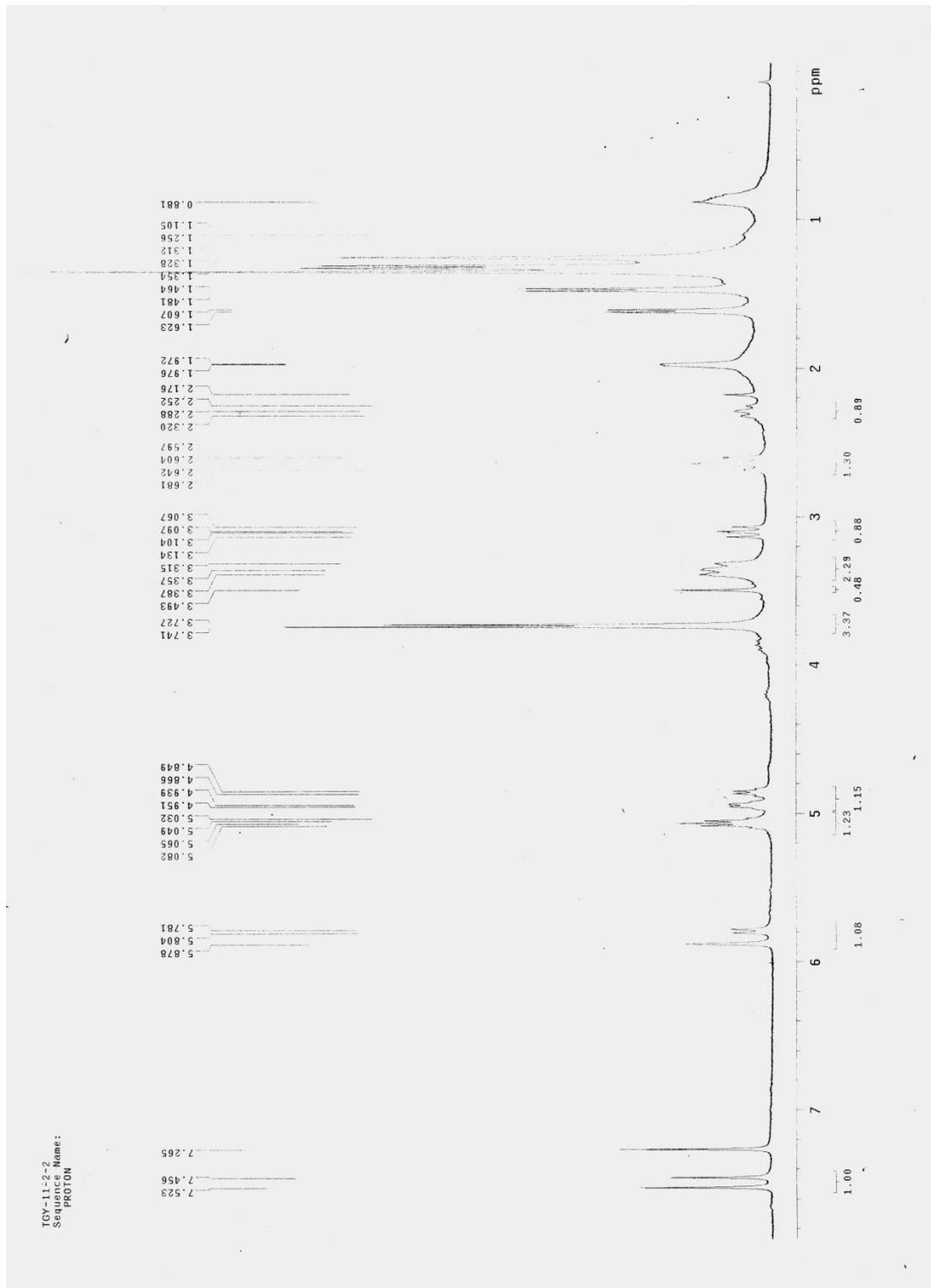
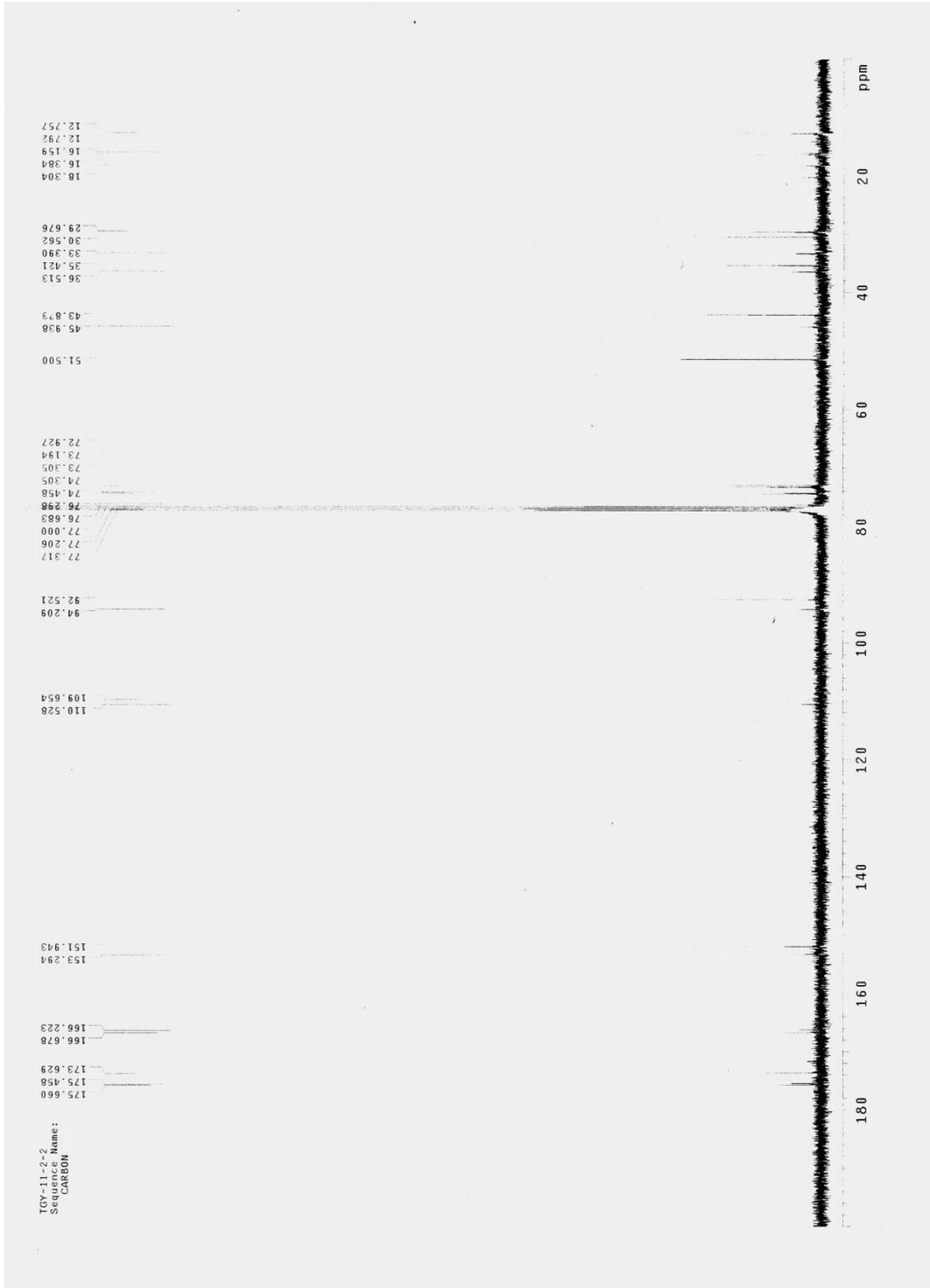


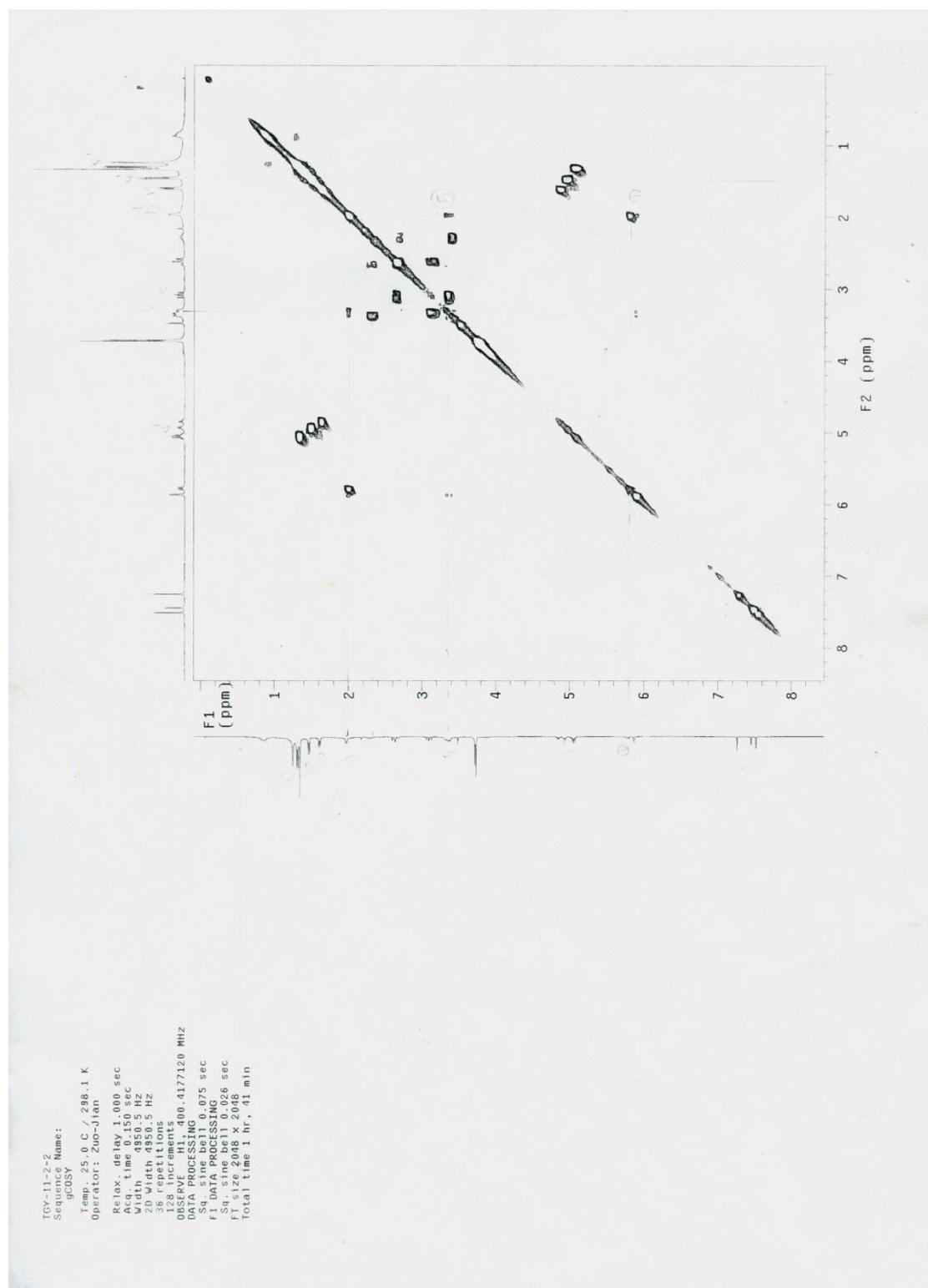
¹H NMR spectrum of Gonocarin A (1)



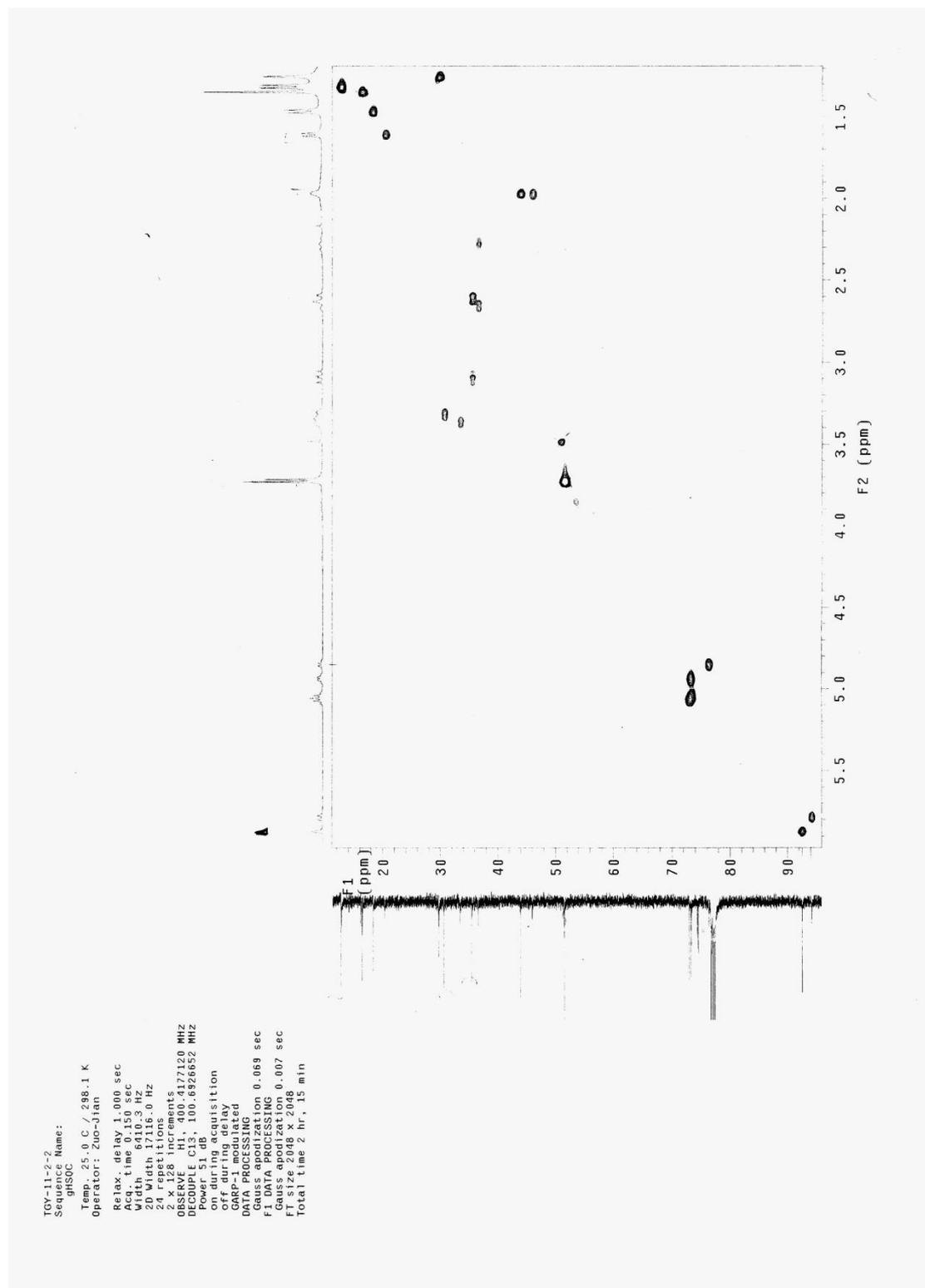
¹³C NMR spectrum of Gonocarin A (1)



COSY spectrum of Gonocarin A (1)

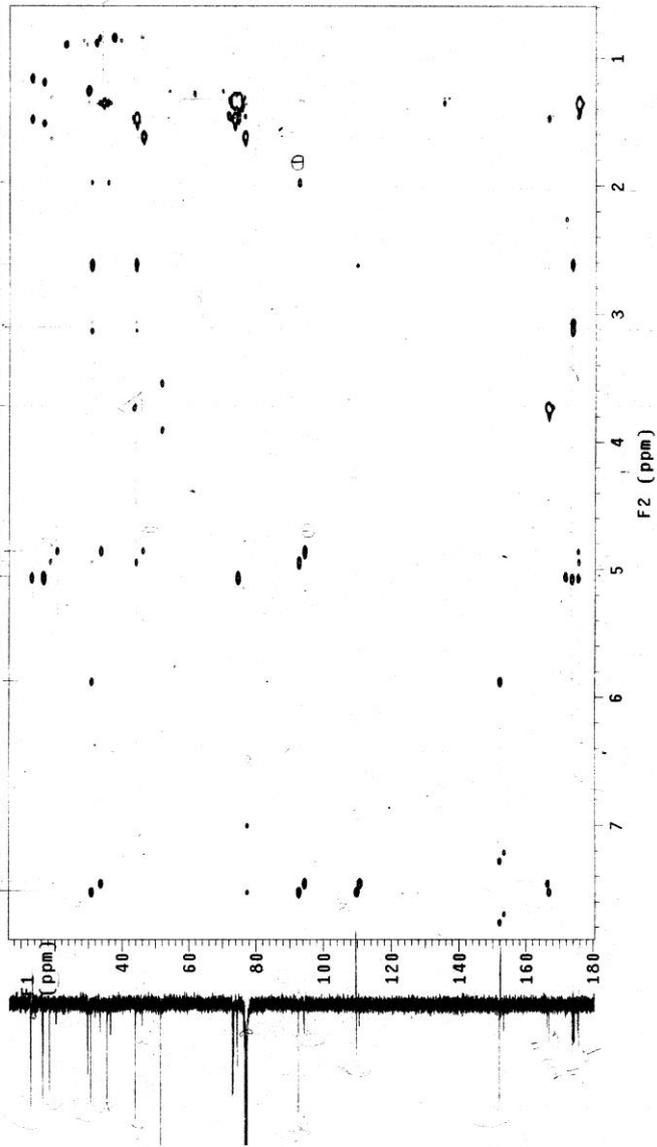


HMQC spectrum of Gonocarin A (1)



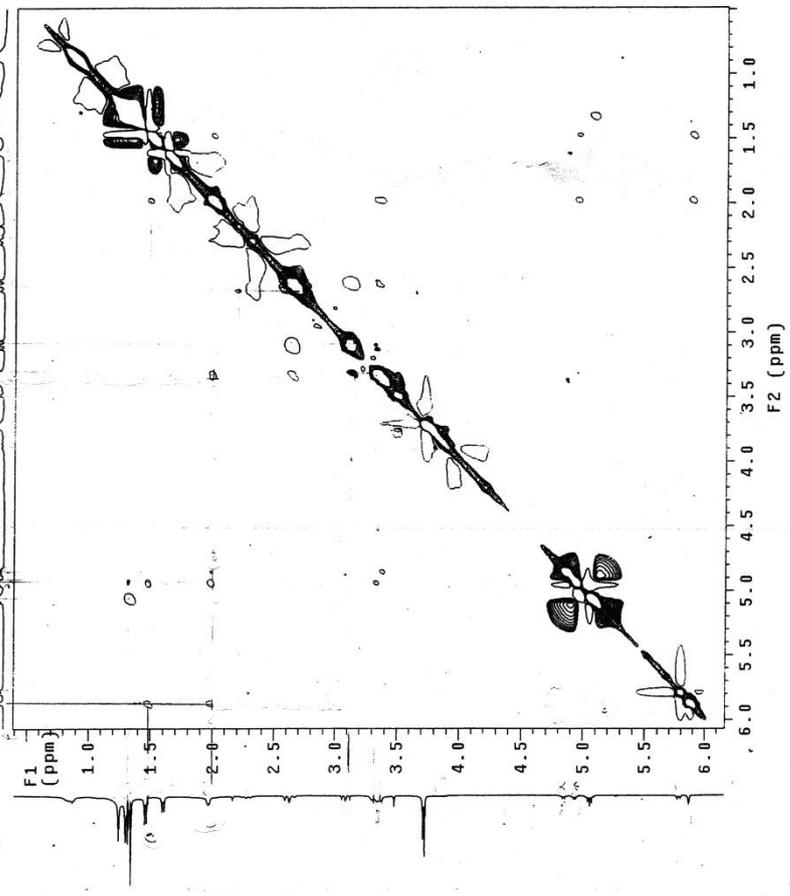
HMBC spectrum of Gonocarin A (1)

TOY-11-2-2
Sequence Name:
gHMBC
Temp. 25.0 C / 298.1 K
Operator: Zuo-Jian
Relax. delay 1.000 sec
Acq. time 0.150 sec
Width 6410.3 Hz
2D Width 24161.9 Hz
2D F2 increments
2 x 500
OBSERVE H1, 400.4177120 MHz
DATA PROCESSING
Sg. sine bell 0.075 sec
F1 DATA PROCESSING
FT size 2048 x 2048
Total time 4 hr. 14 min

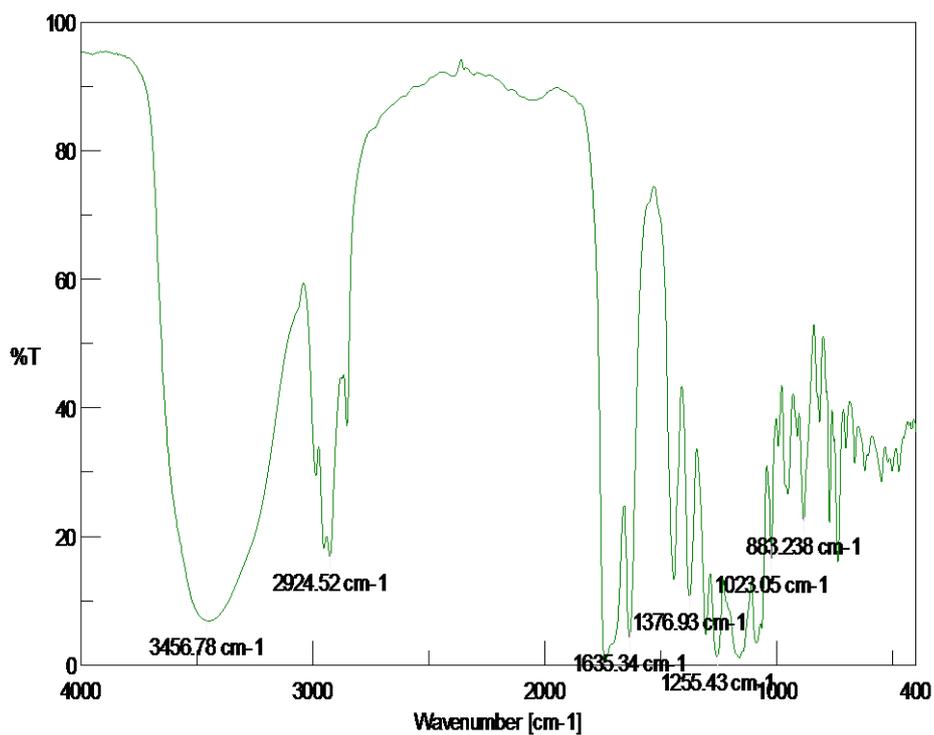


NOESY spectrum of Gonocarin A (1)

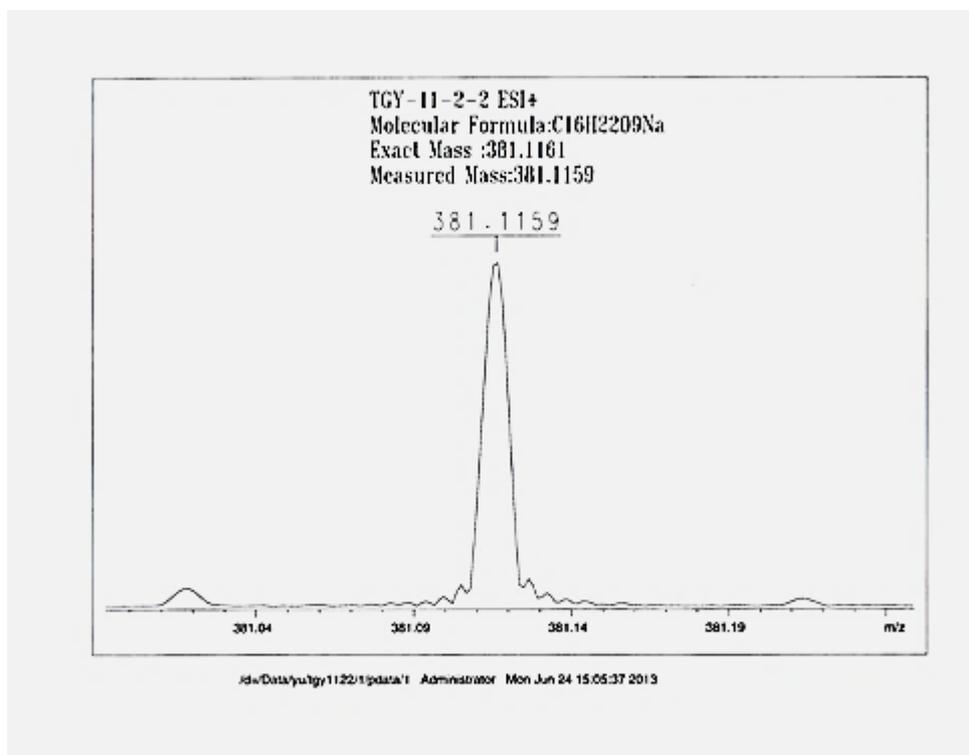
TOY-11-2-2
Sequence Name:
NOESY
Temp: 25.0 C / 288.1 K
Operator: Zuo-Jian
Relax. delay 1.000 sec
Acq. time 05.50 sec
AQ 0.100 sec
2D Width 4850.5 Hz
16 repetitions
0.0500 increments
F1 F2 00.4177120 MHz
DATA PROCESSING
Gauss apodization 0.068 sec
F1 DATA PROCESSING
Gauss apodization 0.037 sec
F2 size 2048
Total time 3 hr, 44 min



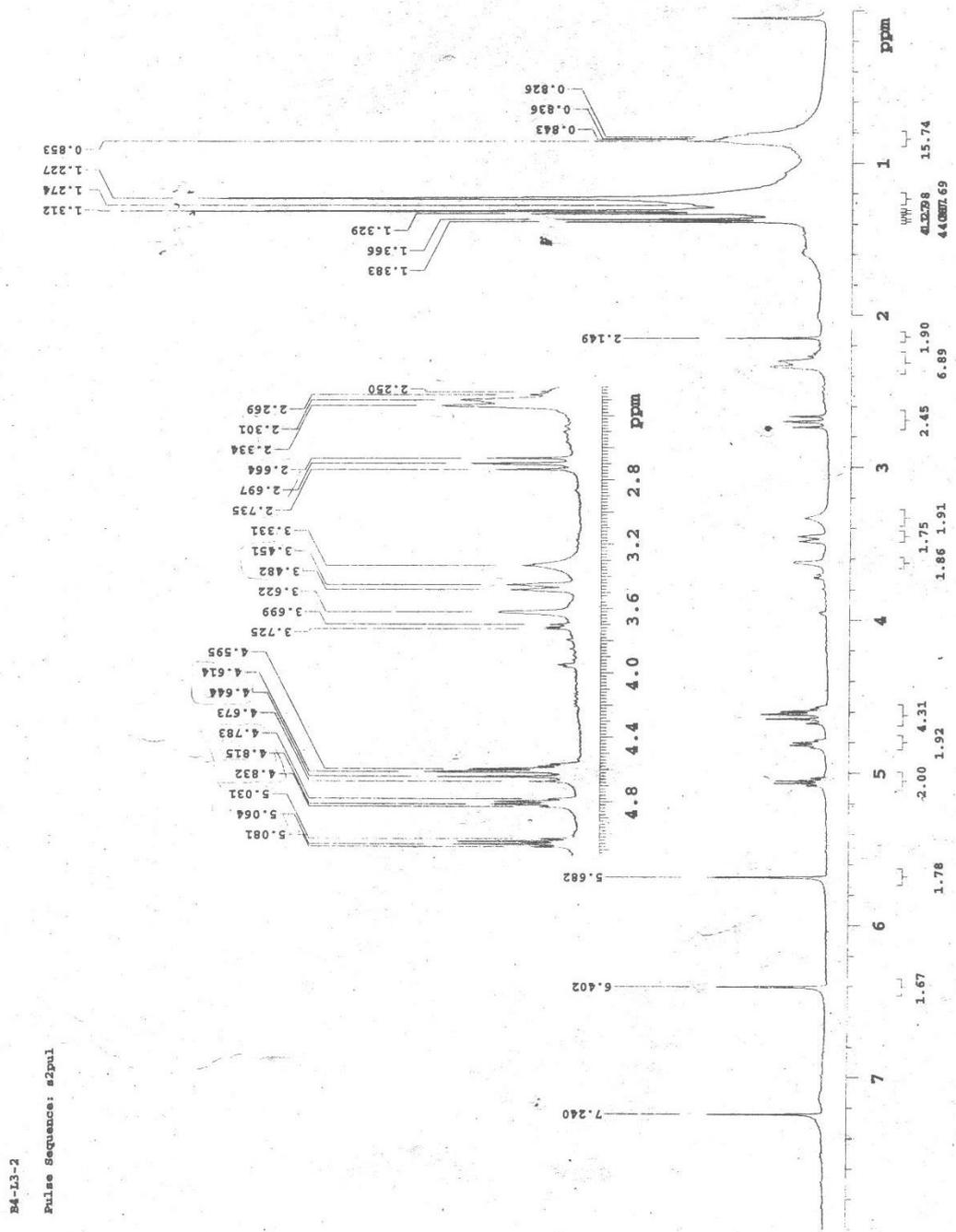
IR spectrum of Gonocarin A (1)



HRESIMS spectrum of Gonocarin A (1)

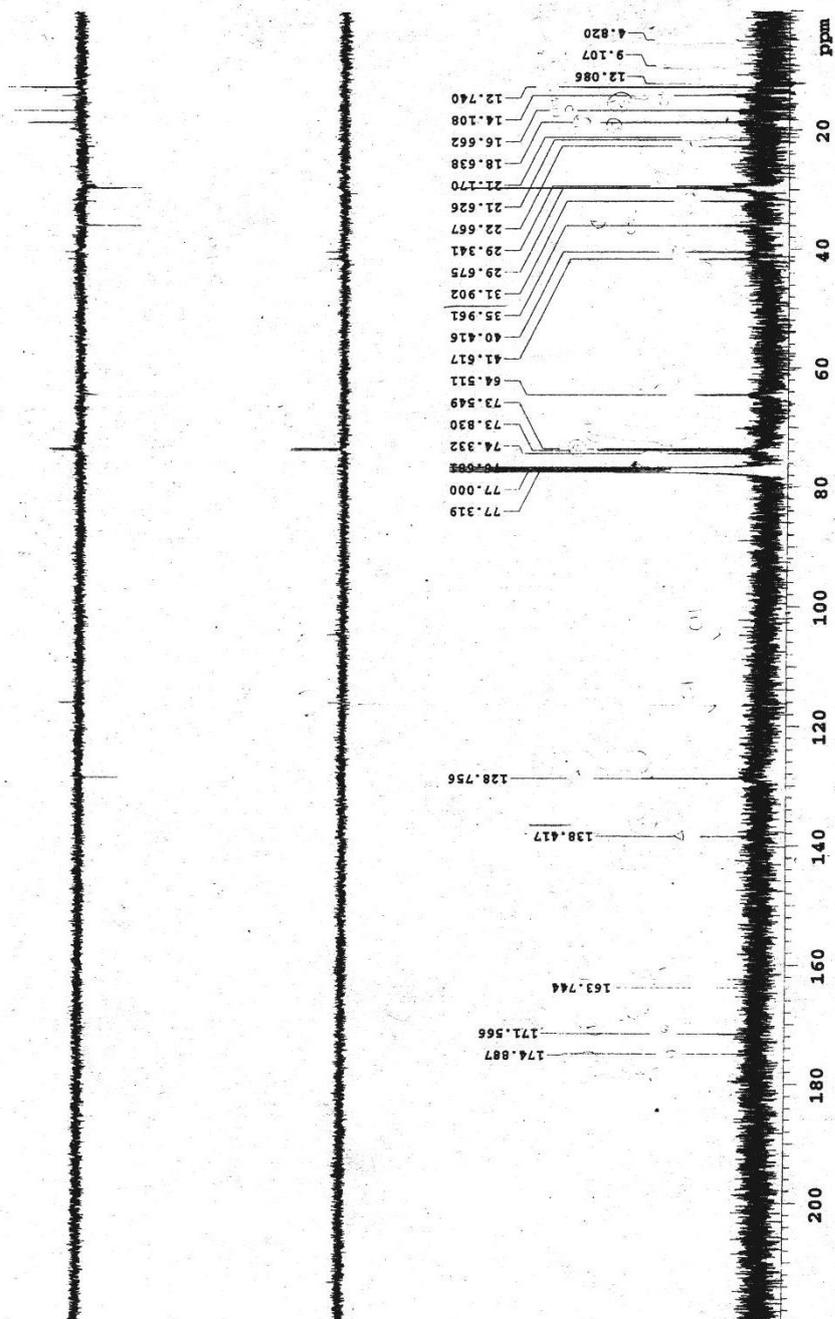


¹H NMR spectrum of Gonocarin B (2)

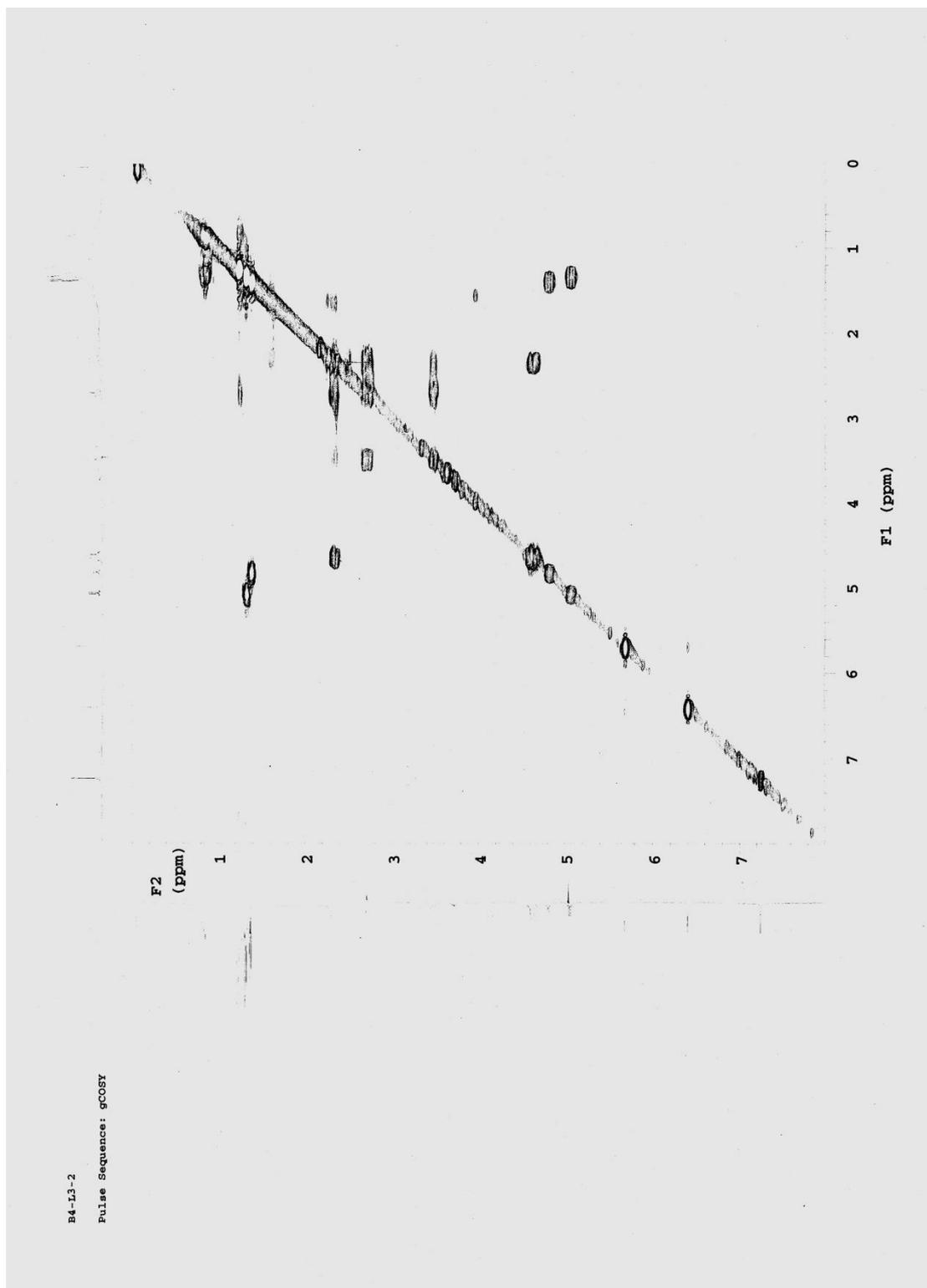


¹³C NMR and DEPT spectrum of Gonocarin B (2)

B4-03-2
Pulse Sequence: s2pul



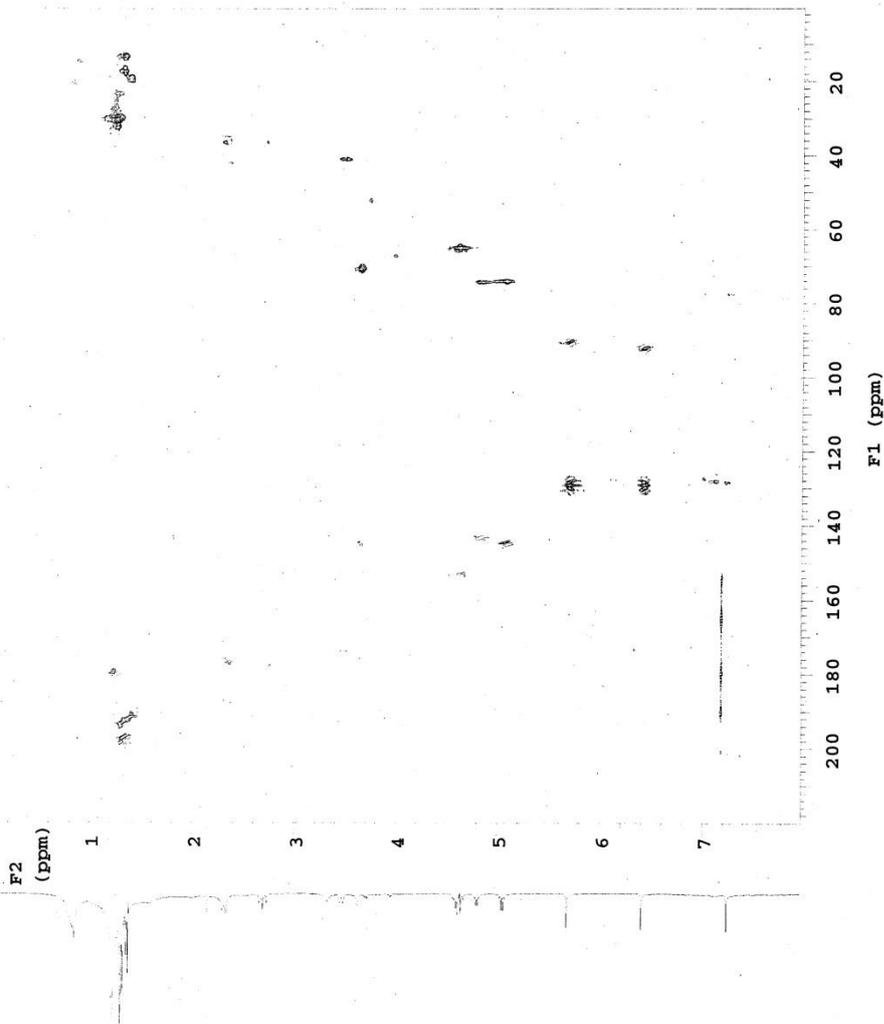
COSY spectrum of Gonocarin B (2)



HMQC spectrum of Gonocarin B (2)

B4-L3-2

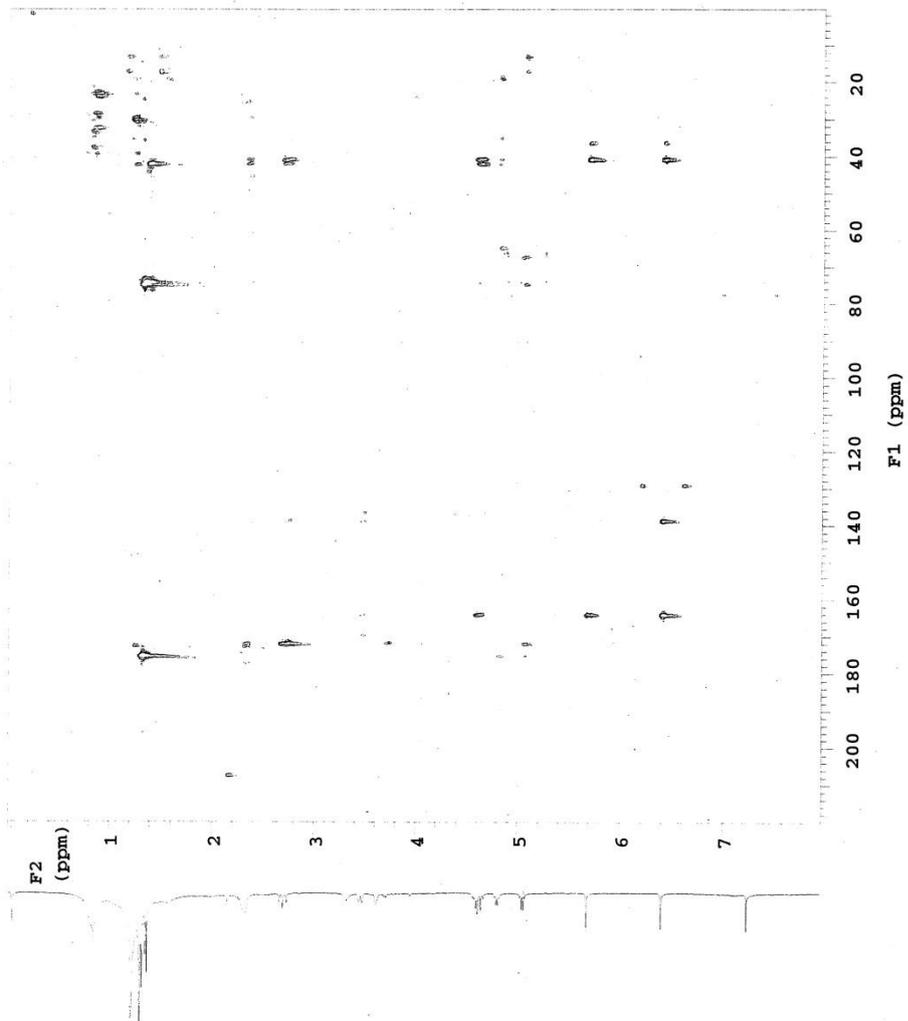
Pulse Sequence: gmqc



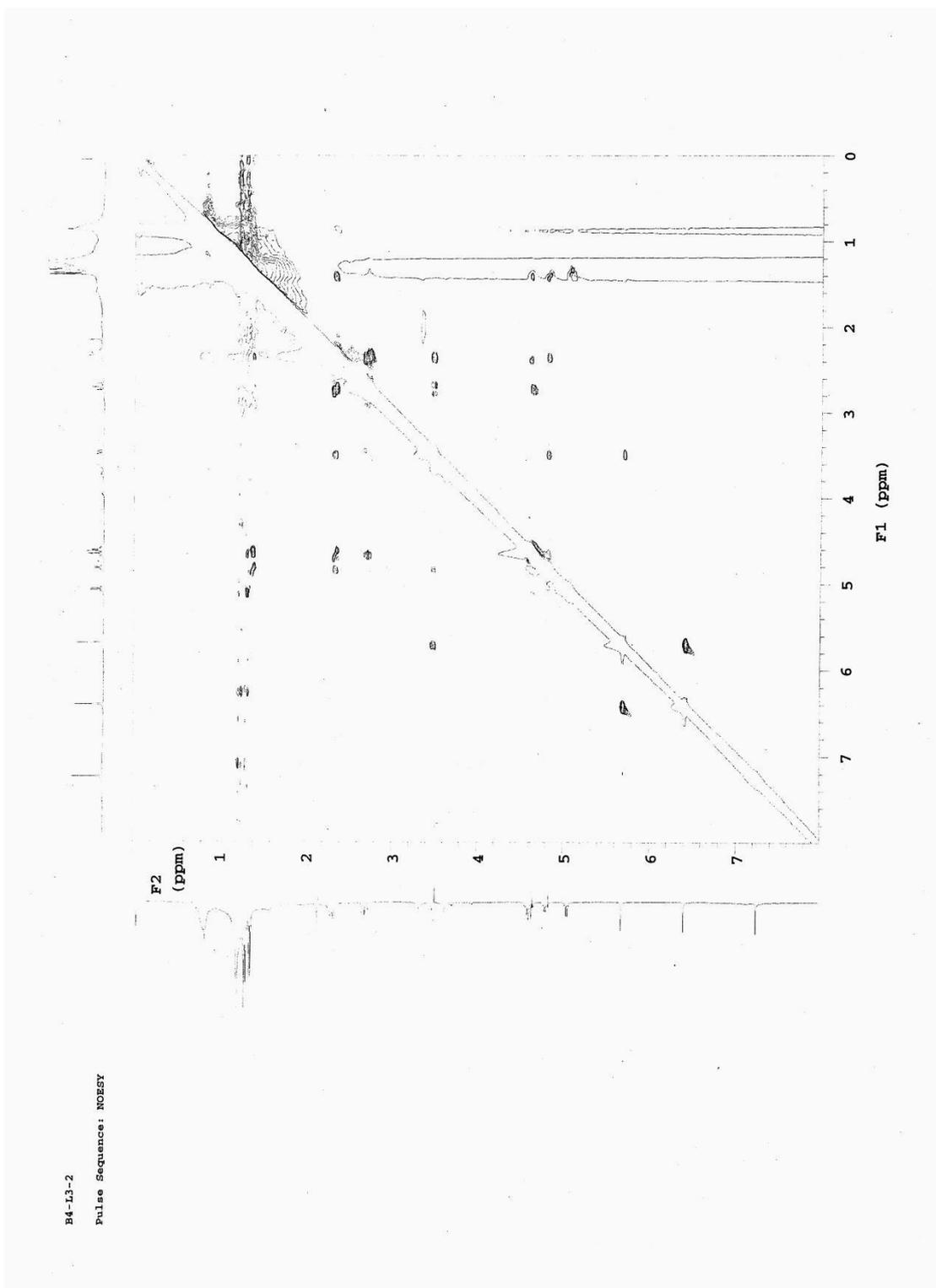
HMBC spectrum of Gonocarin B (2)

B4-13-2

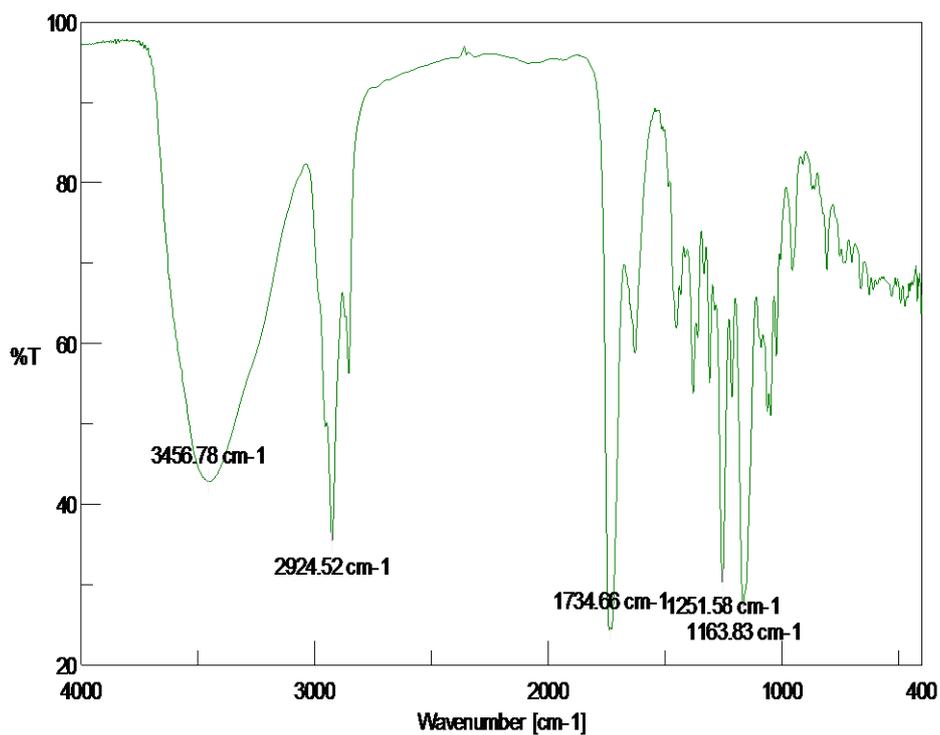
Pulse Sequence: ghmec



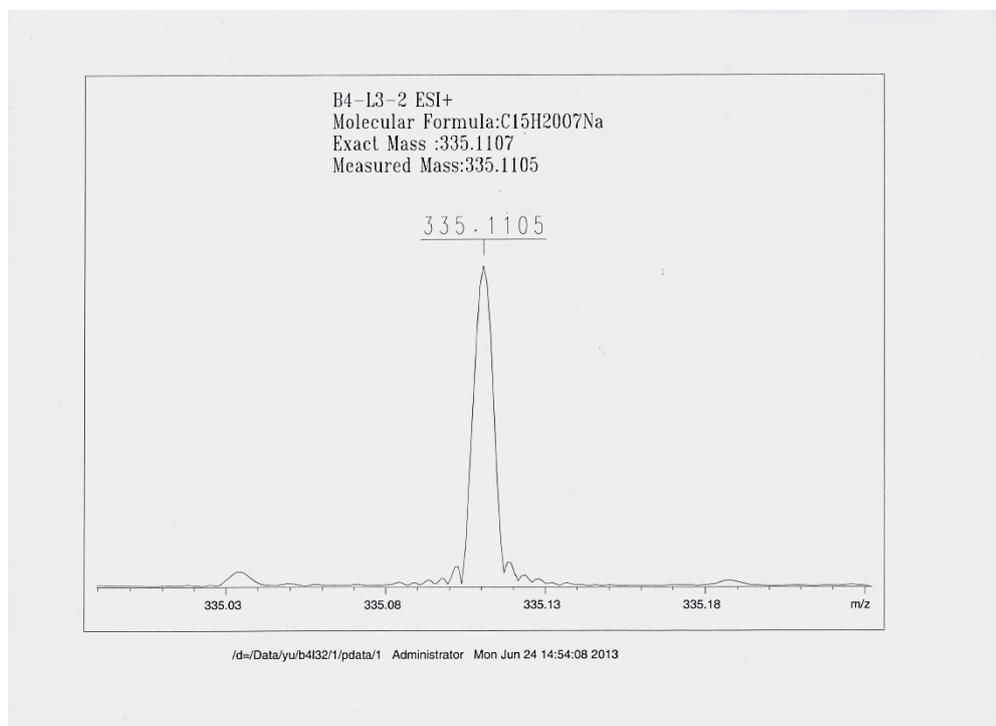
NOESY spectrum of Gonocarin B (2)



IR spectrum of Gonocarin B (2)



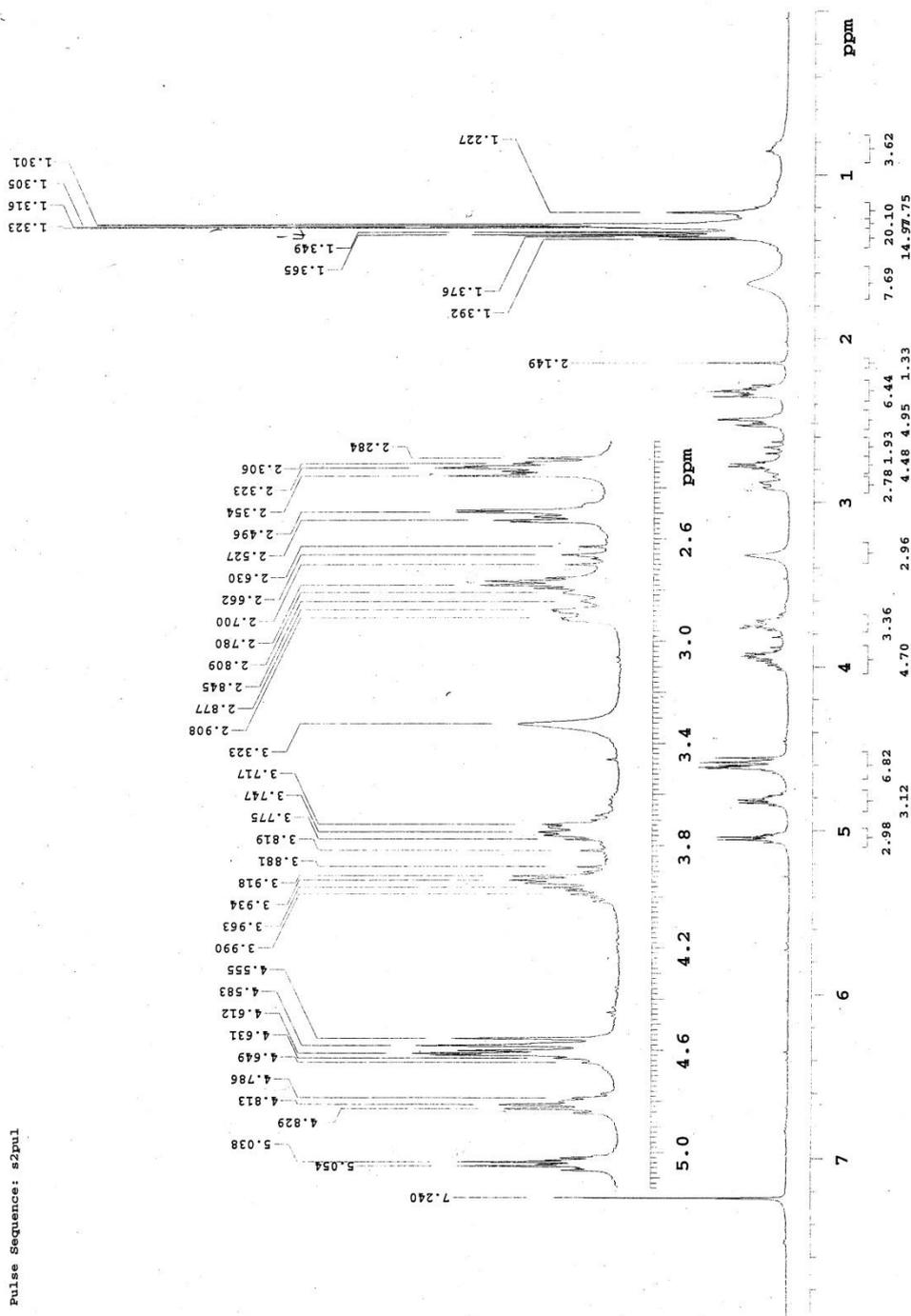
HR-ESI-MS spectrum of Gonocarin B (2)



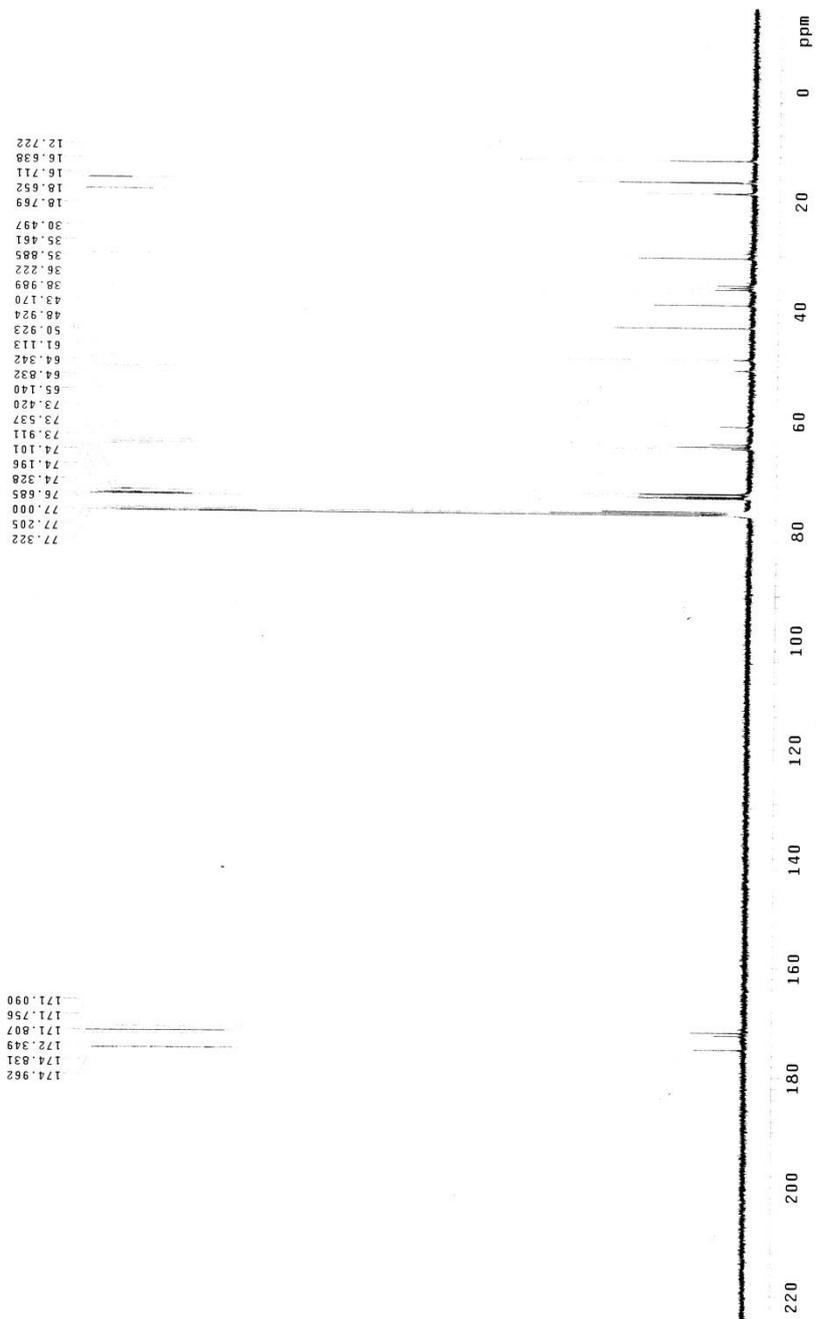
¹H NMR spectrum of Gonocarin C (3)

B7-L5-2

Pulse Sequence: s2pul



¹³C NMR spectrum of Gonocarin C (3)

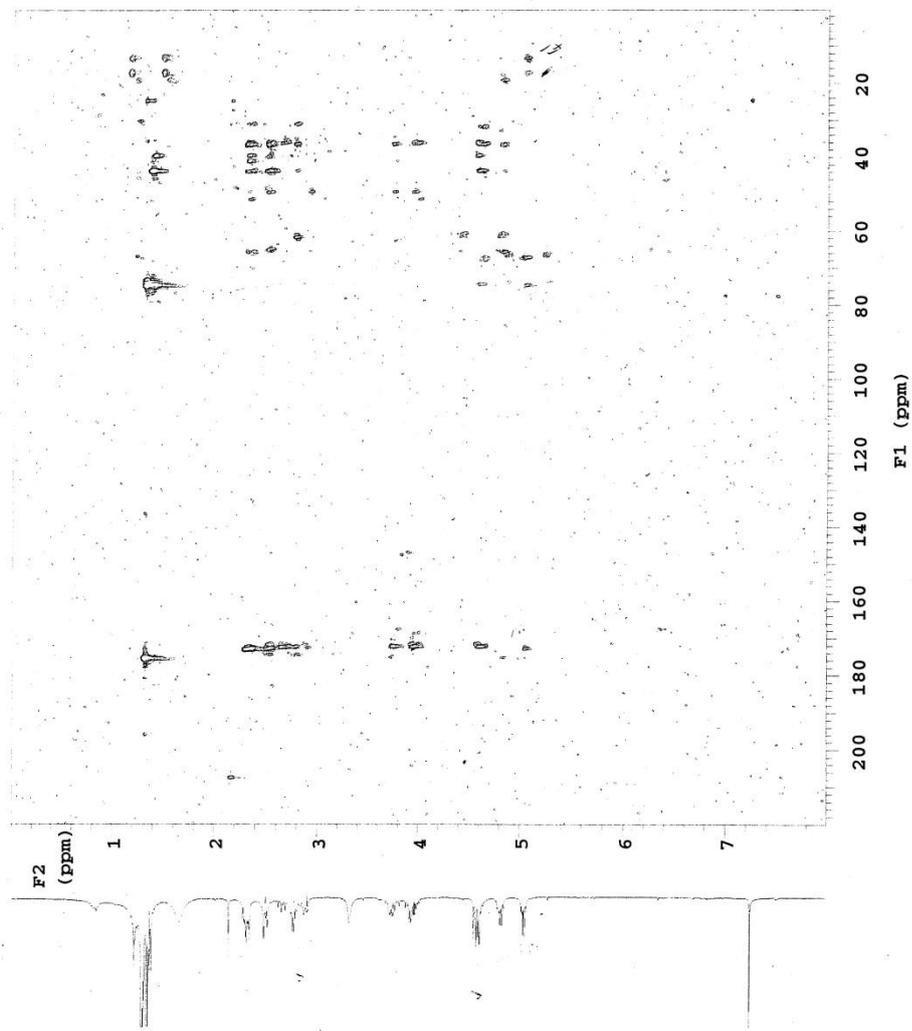


Str⁴ Carbon experiment
Automation directory:
Sample: 11-2-11-2
Pulse Sequence: s2pul

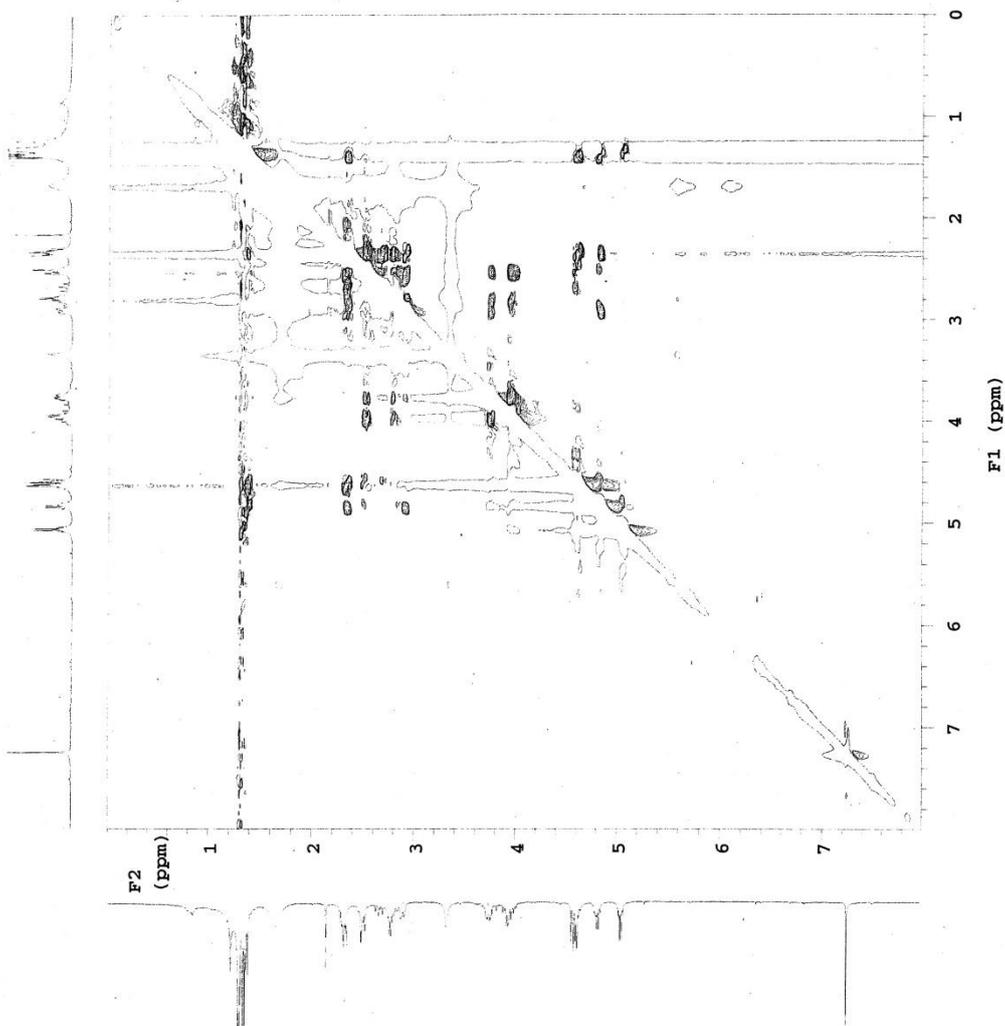
HMBC spectrum of Gonocarin C (3)

B7-15-2

Pulse Sequence: gHMBC

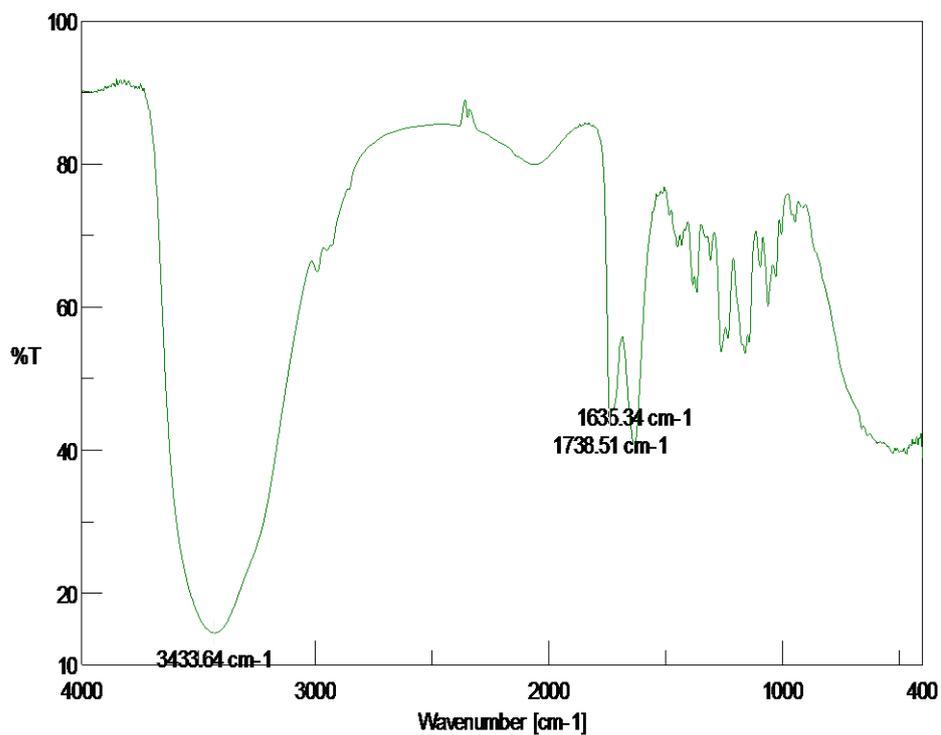


NOESY spectrum of Gonocarin C (3)

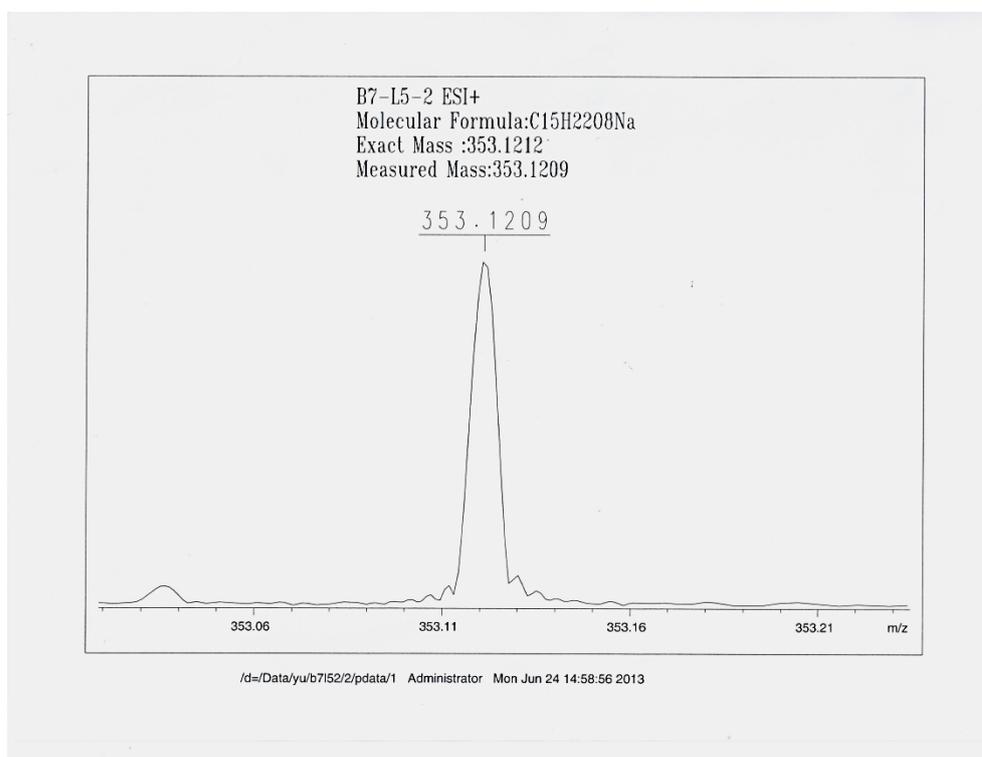


B7-15-2
Pulse Sequence: NOESY

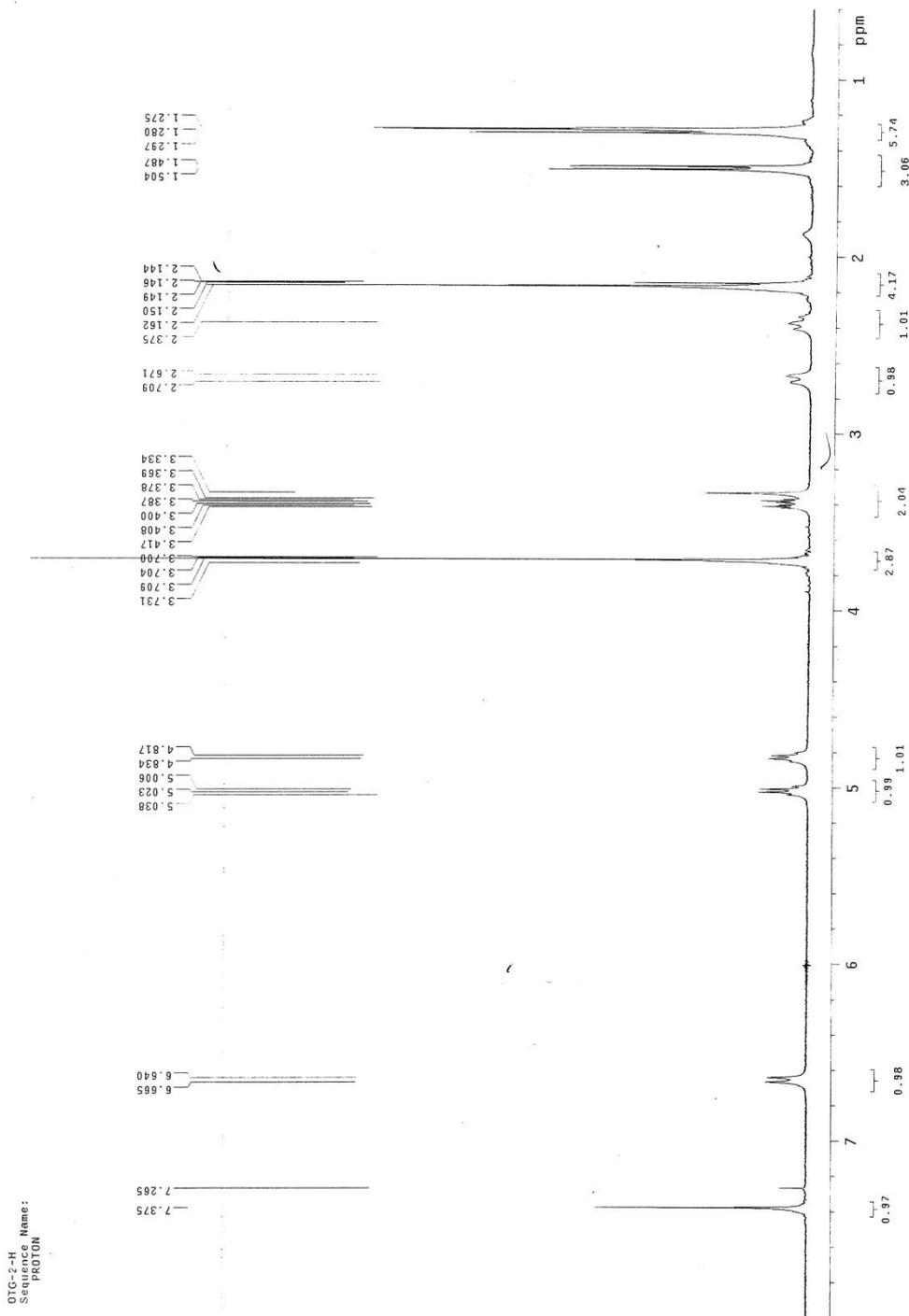
IR spectrum of Gonocarin C (3)



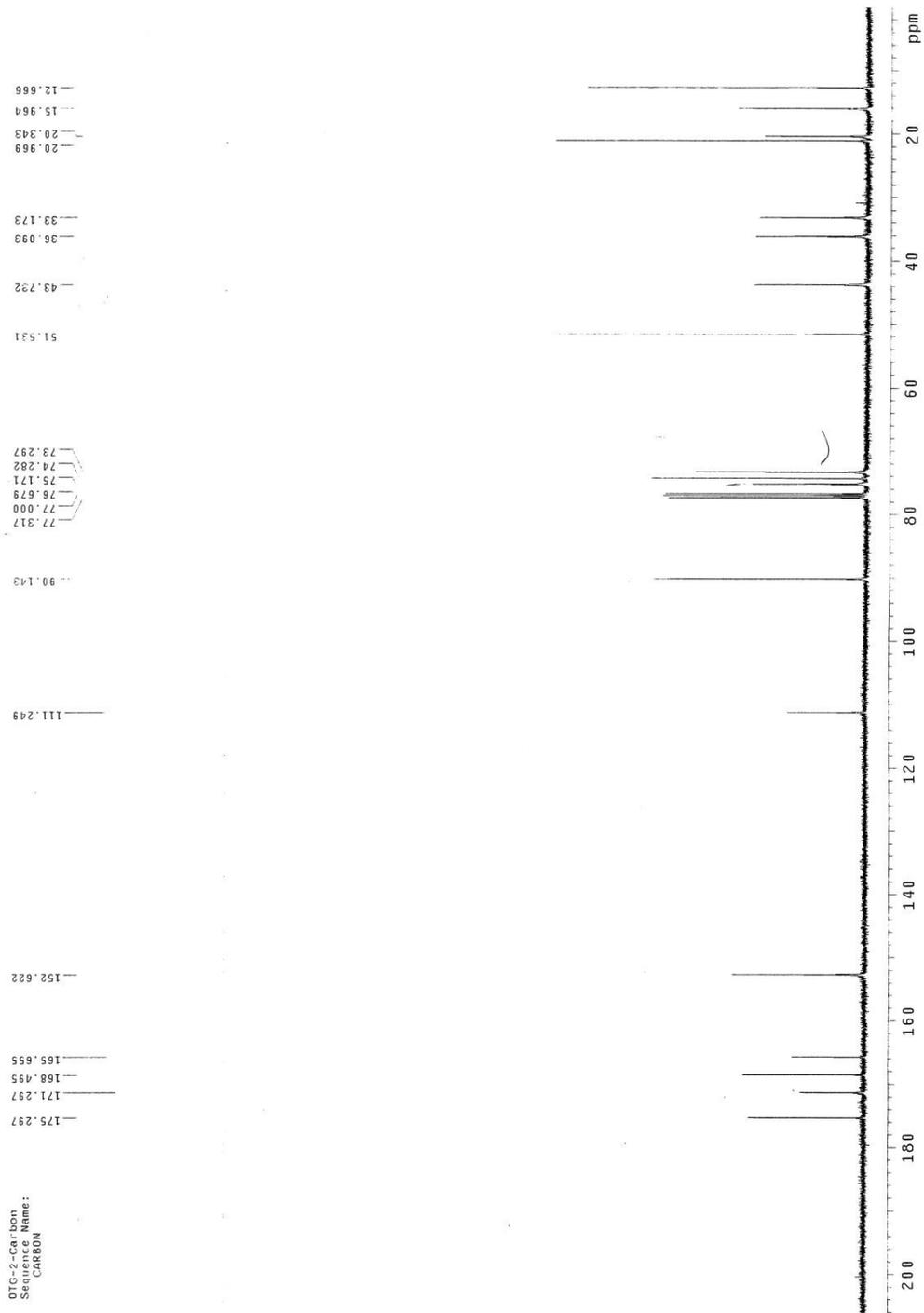
HR-ESI-MS spectrum of Gonocarin C (3)



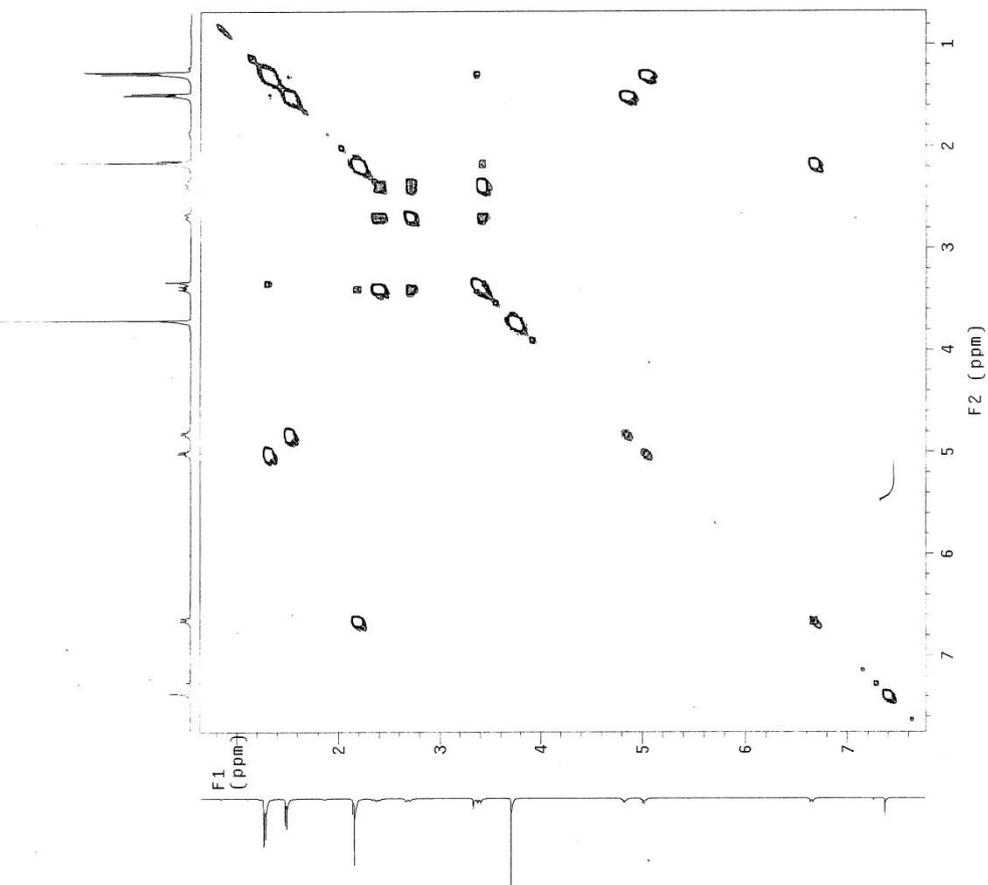
¹H NMR spectrum of Gonocarin A monoacetate (4)



¹³C NMR spectrum of Gonocarin A monoacetate (4)



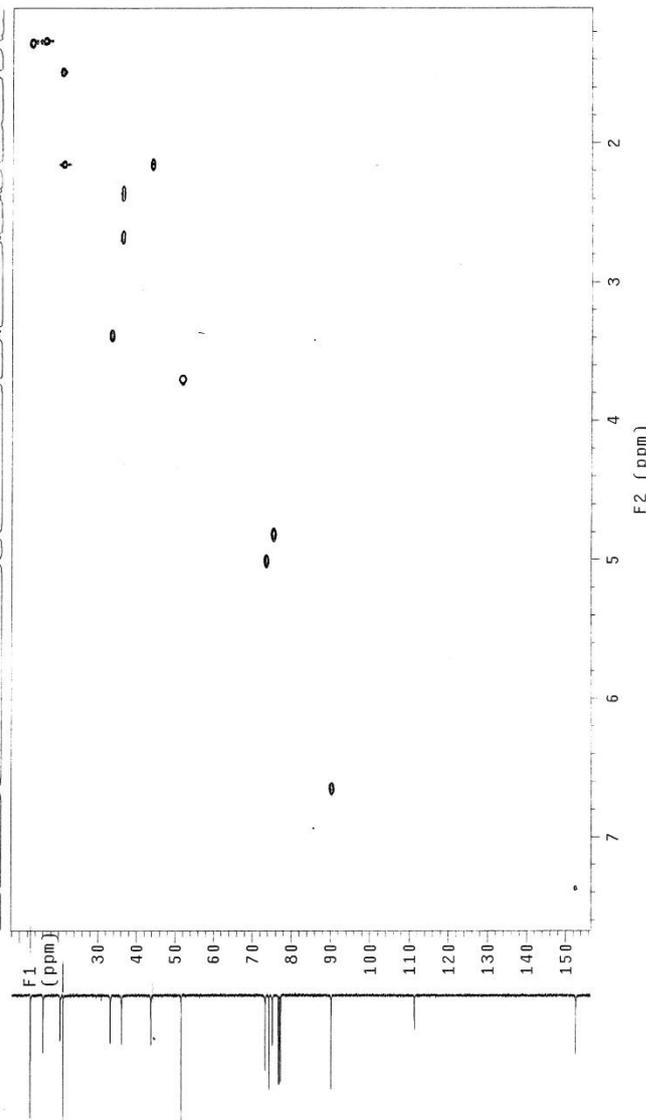
COSY spectrum of Gonocarin A monoacetate (4)



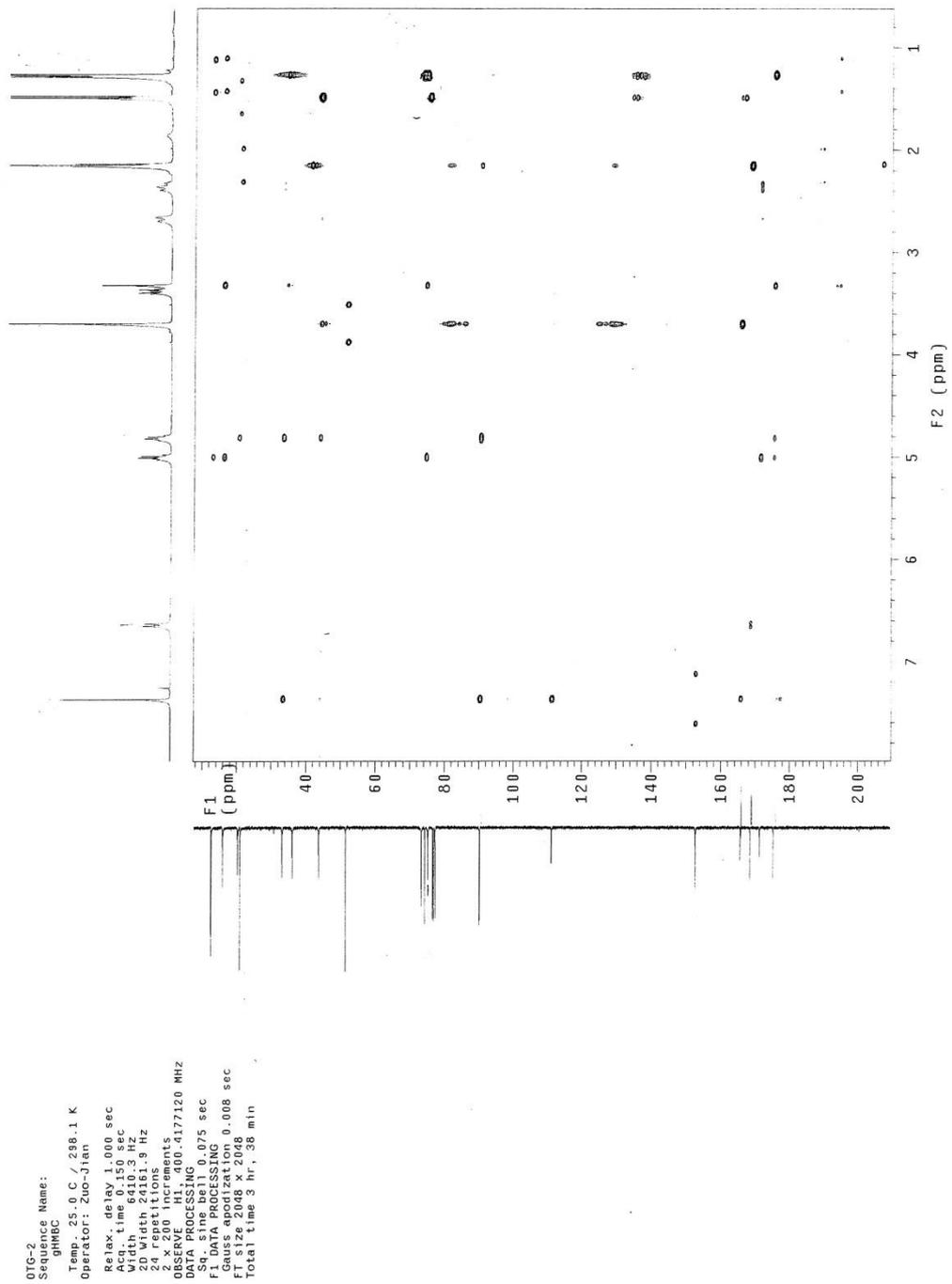
DTG-2
Service Name:
JG-COSY
Temp. 25.0 C / 298.1 K
Operator: Zuo-Jian
Relax. delay 1.000 sec
Acq. time 3846.2 sec
Width 3846.2 Hz
2D Width 3846.2 Hz
32 repetitions
288 increments
Observed 00.4177120 MHz
DATA PROCESSING
Sf. sine bell 0.075 sec
F1 DATA PROCESSING
Sf. sine bell 1.003 sec
F2. sine bell 1.003 sec
Total time 1 hr, 30 min

HMQC spectrum of Gonocarin A monoacetate (4)

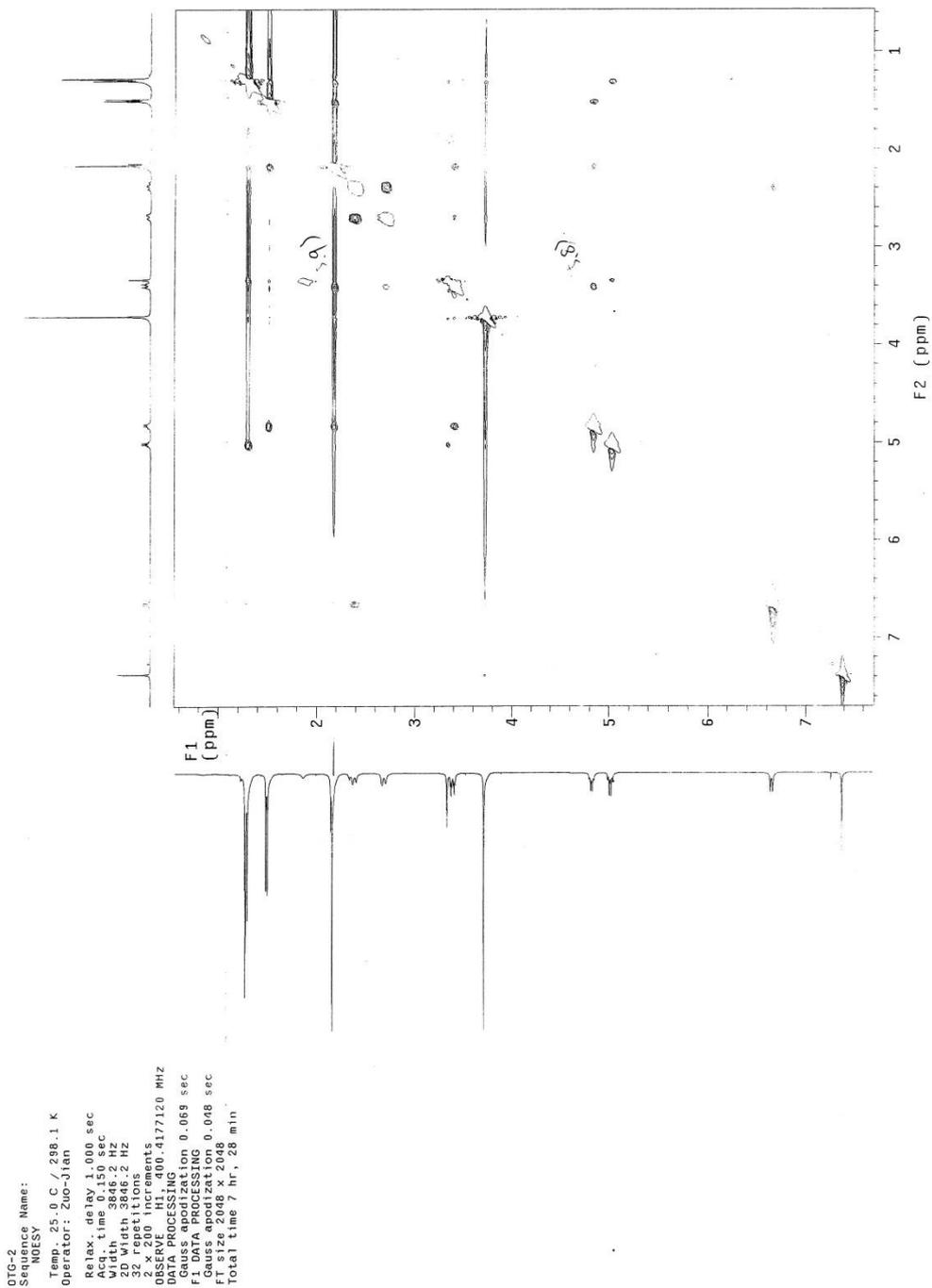
OTG-2
 Sequence Name:
 ghsoc
 Temp. 25.0 C / 288.1 K
 Operator: Zuo-Jian
 Relax. delay 1.000 sec
 Acq. time 0.150 sec
 Width 6410.3 Hz
 F2 width 16.0 Hz
 2 x 128 increments
 OBSERVE H1, 400.4177120 MHz
 DECOUPLE C13, 100.626652 MHz
 on during acquisition
 off during delay
 GARP-1 modulated
 DATA PROCESSING
 Omega modulation 0.068 sec
 F2 DATA PROCESSING
 Gauss apodization 0.007 sec
 FT size 2048 x 2048
 Total time 1 hr, 42 min



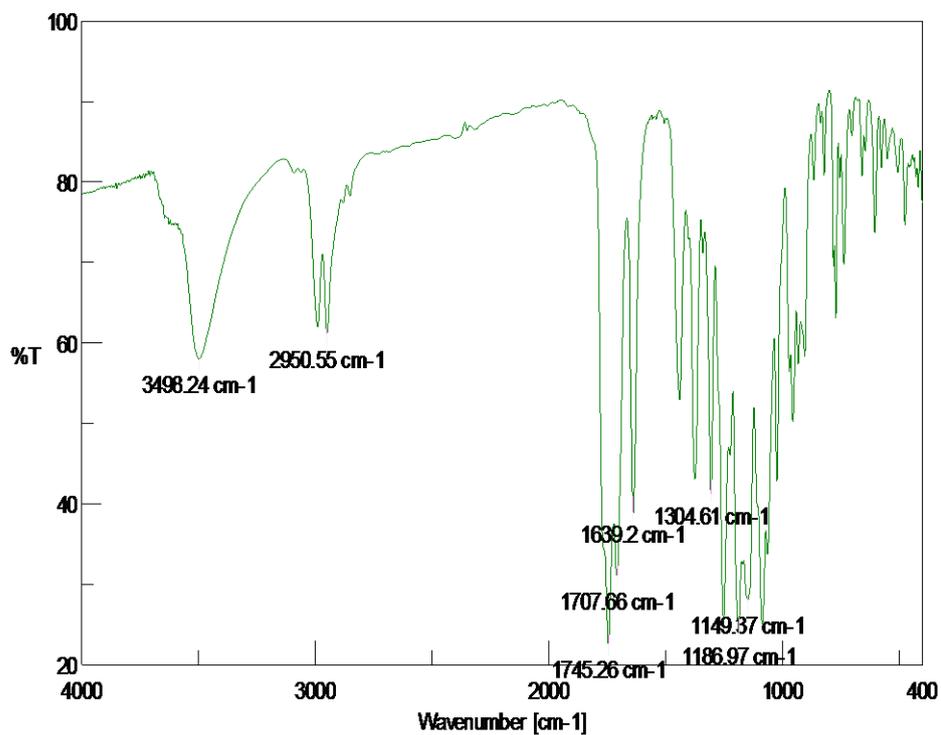
HMBC spectrum of Gonocarin A monoacetate (4)



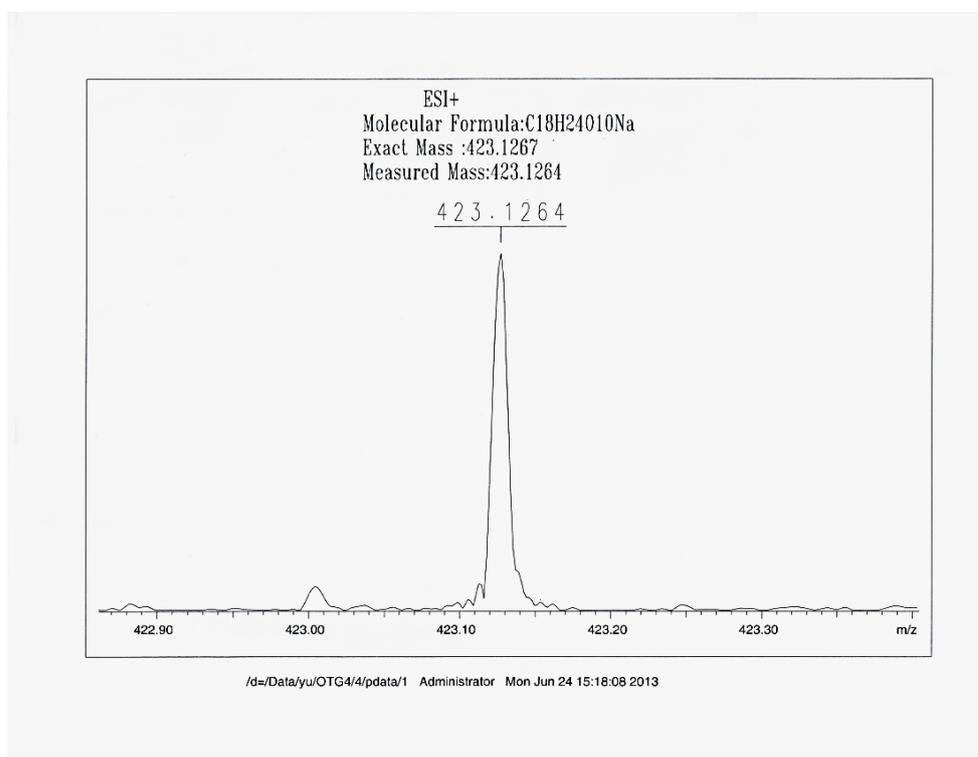
NOESY spectrum of Gonocarin A monoacetate (4)



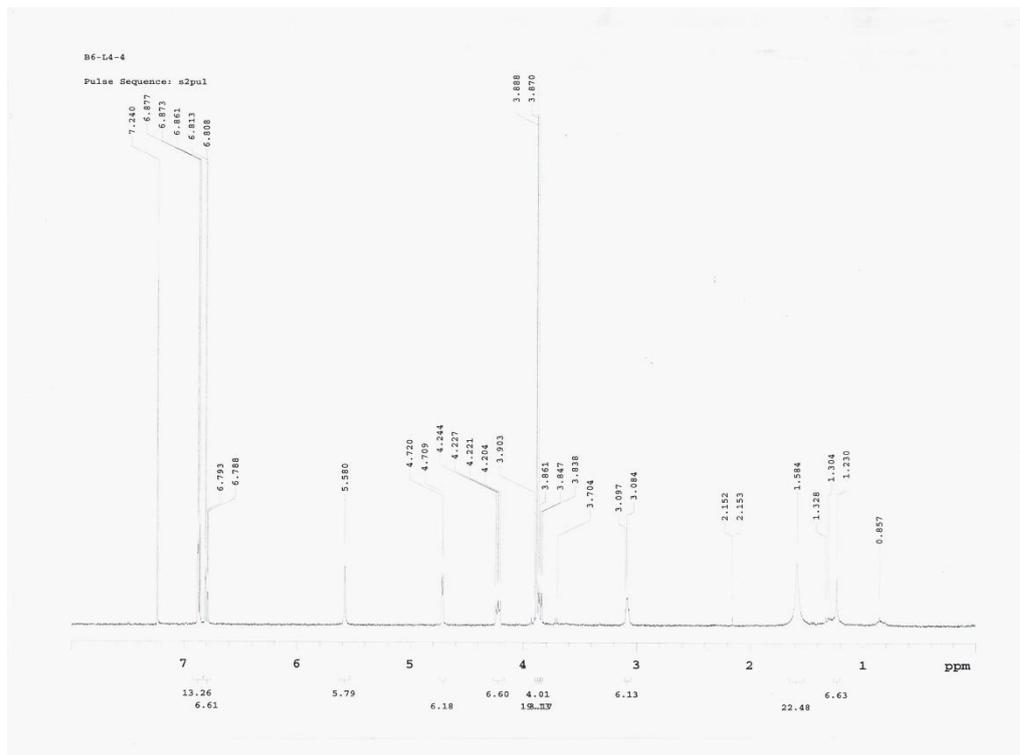
IR spectrum of Gonocarin A monoacetate (4)



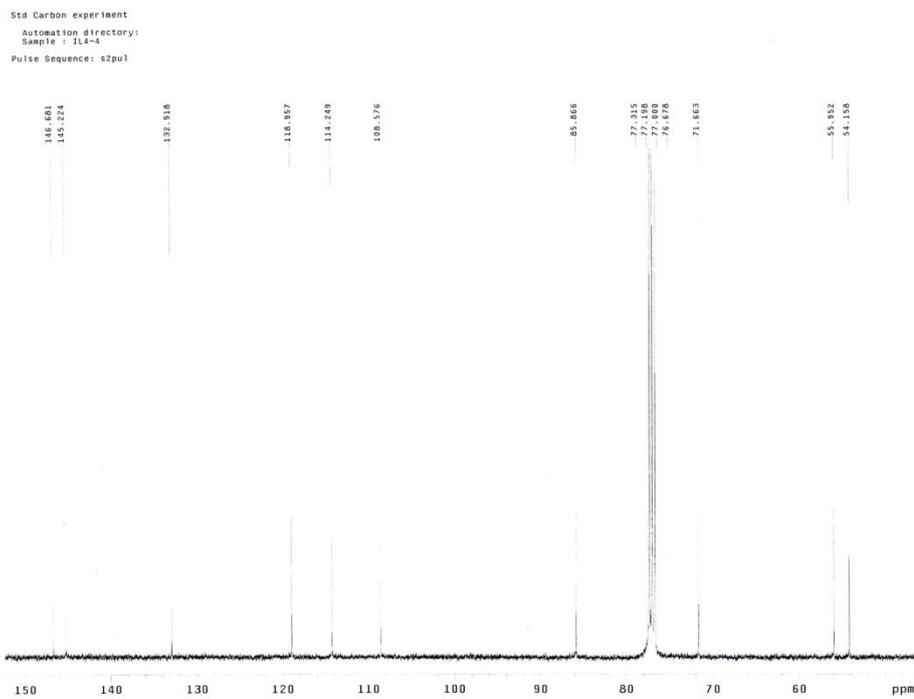
HRESIMS spectrum of Gonocarin A monoacetate (4)



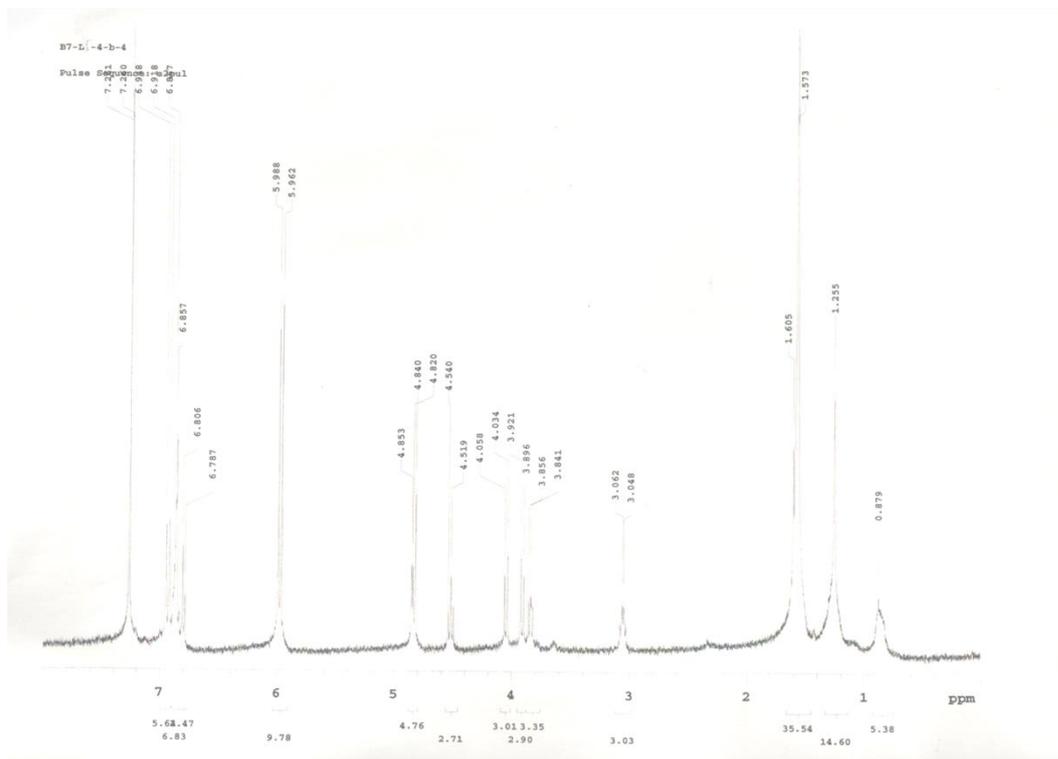
¹H NMR spectrum of Pinoresinol (5)



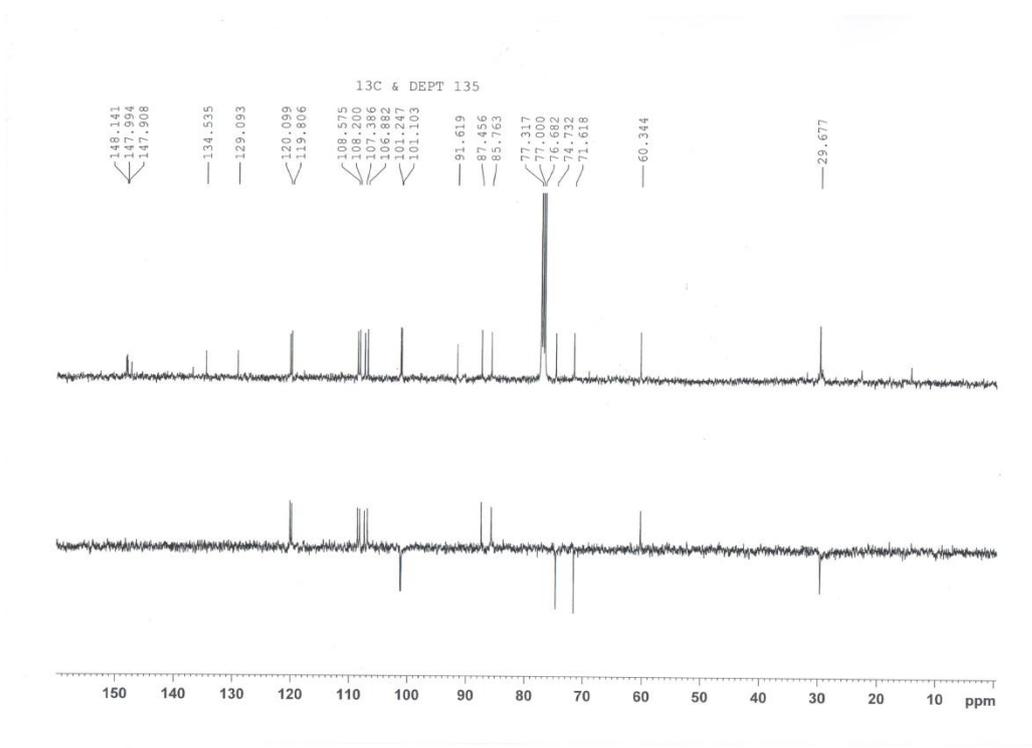
¹³C NMR spectrum of Pinoresinol (5)



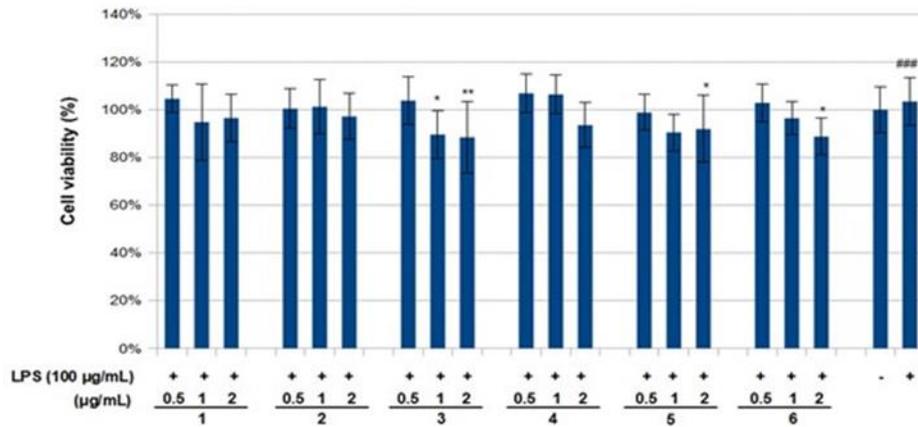
¹H NMR spectrum of Paulownin (6)



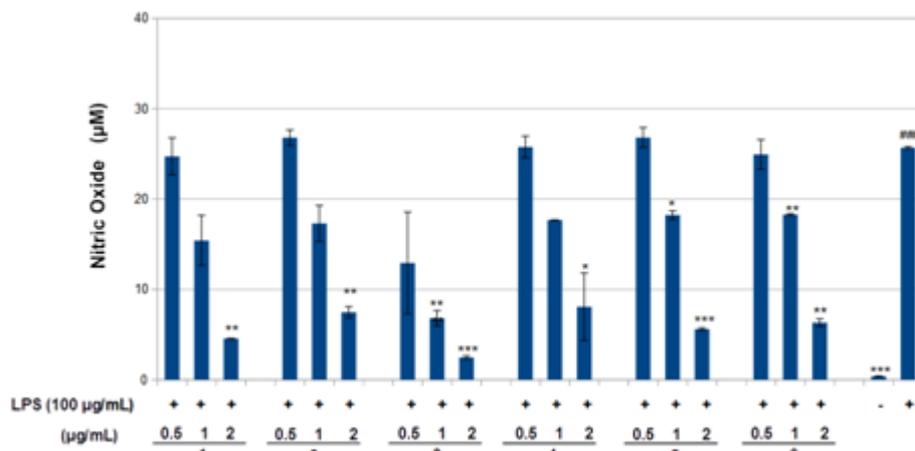
¹³C NMR spectrum of Paulownin (6)



A



B



C

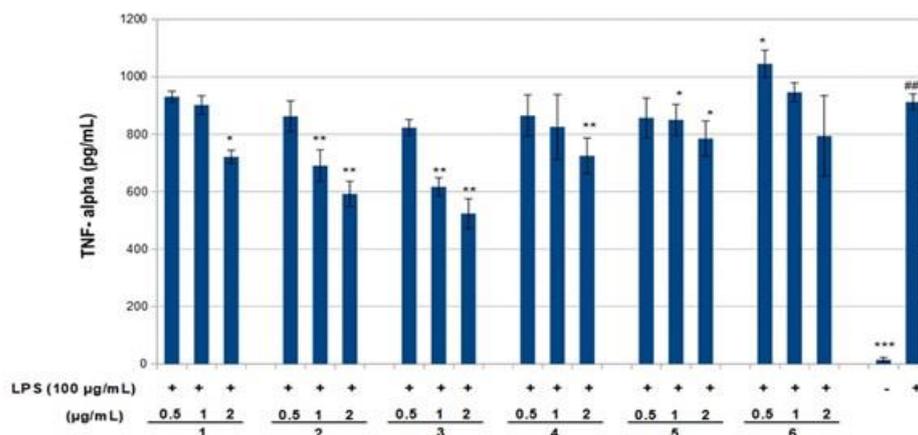


Figure 4. Cytotoxicity of the compounds 1-6 were isolated from the seed of *gonocaryum calleryanum* in RAW264.7 macrophage cells (A), and the effects of the compounds 1-6 on LPS induced NO (B) and TNF- α (C) productions of RAW264.7 macrophages.