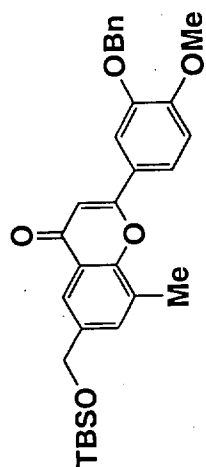
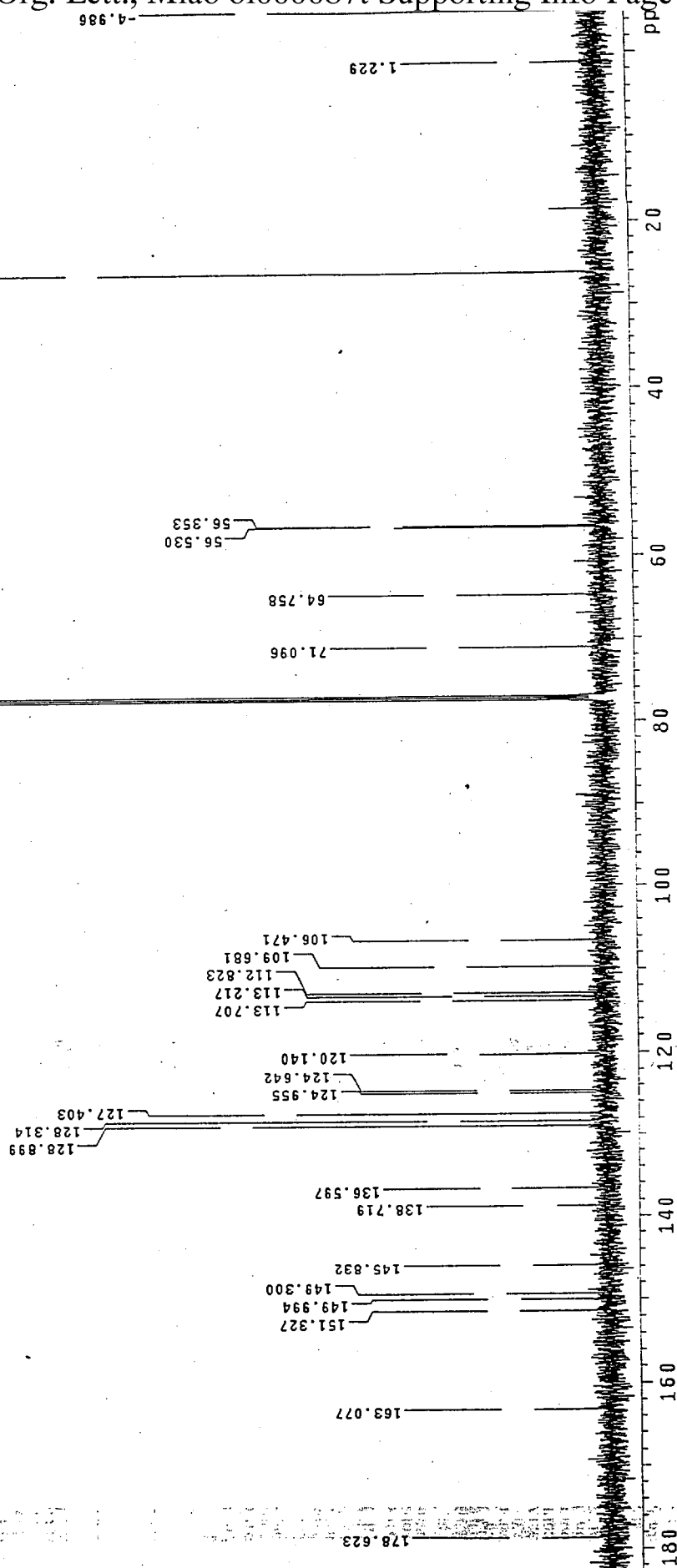


30



172B
 Solvent: cdcl3
 Temp. 25.0 C / 298.1 K
 INOVA-500 "fcb-nmr"
 PULSE SEQUENCE
 Relax. delay 2.000 sec
 Pulse 52.7 degrees
 Acq. time 0.800 sec
 Width 28001.4 Hz
 1736 repetitions
 OBSERVE C13, 125.6585735 MHz
 DECOUPLE H1, 499.7378656 MHz
 Power 35 dB
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 line broadening 0.5 Hz
 FT size 32768
 Total time 61 minutes



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STANDARD PROTON PARAMETERS

Pulse Sequence: s2pul

Solvent: CDCl₃

Temp: 25.0 C / 298.1 K

INNOVA-500 "iccb-nmr"

PULSE SEQUENCE

Pulse 45.0 degrees

Acq. time 1.892 sec

Width 8000.0 Hz

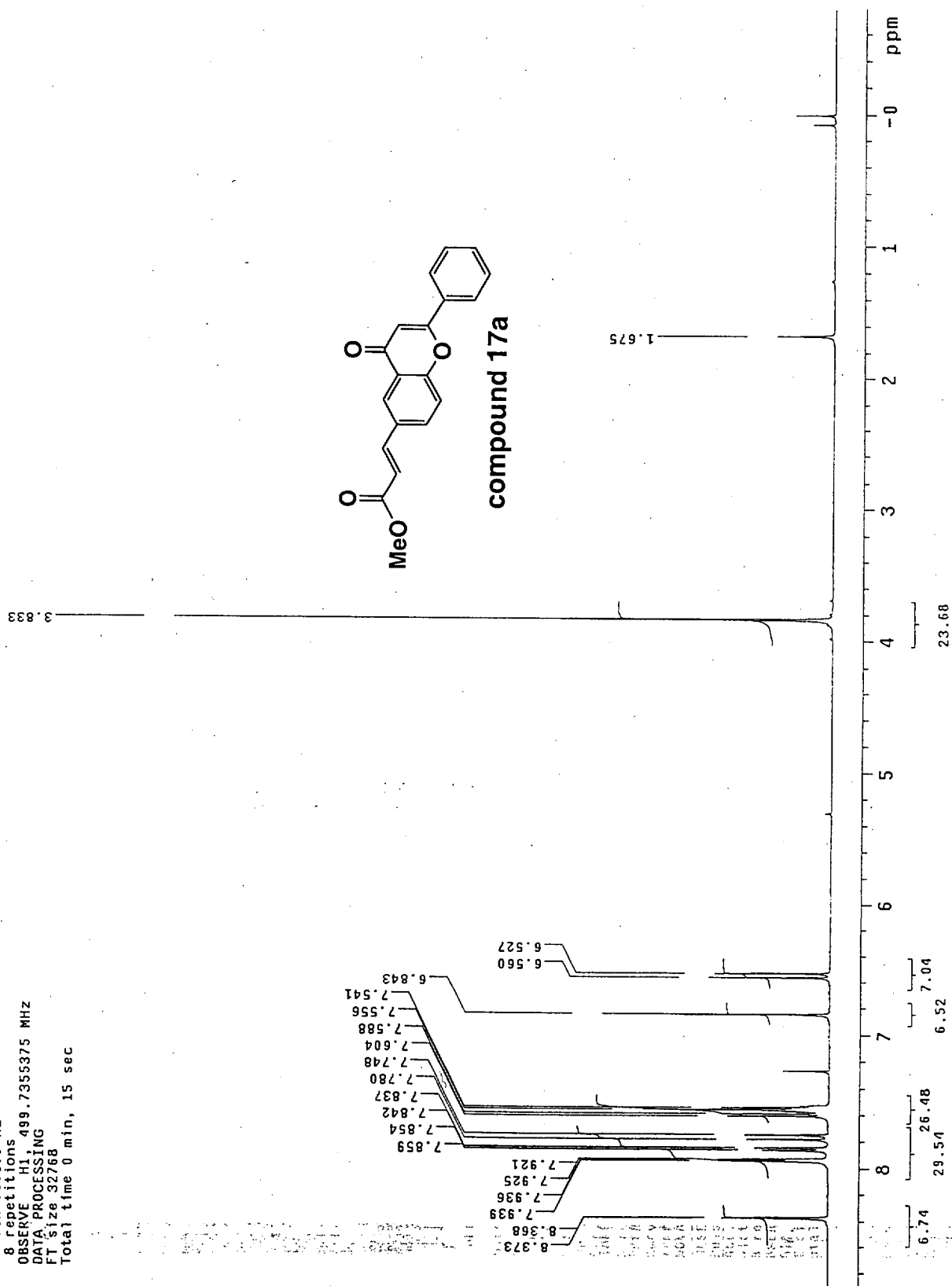
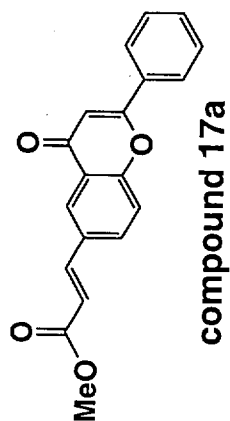
8 repetitions

OBSERVE H1 499.7355375 MHz

DATA PROCESSING

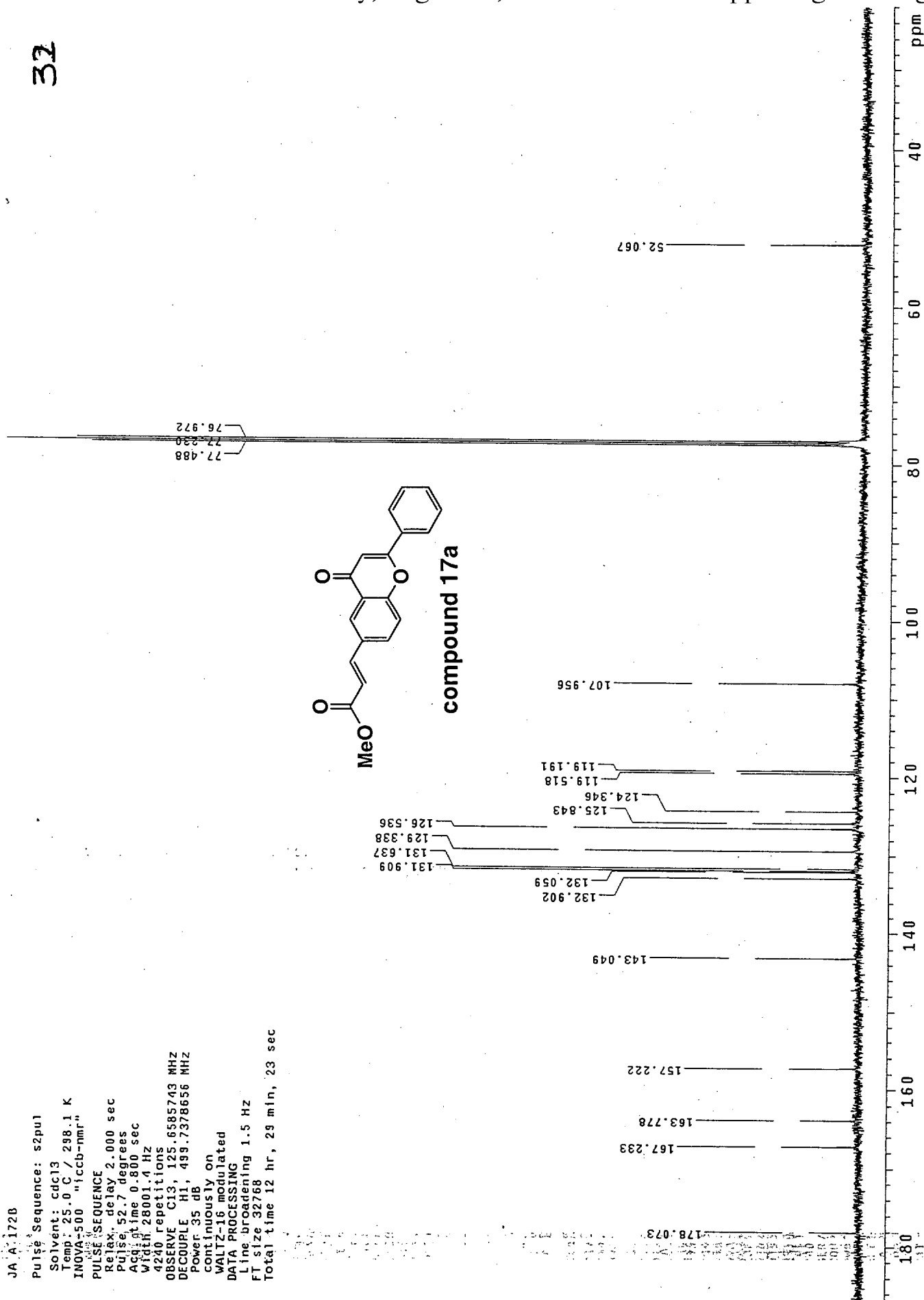
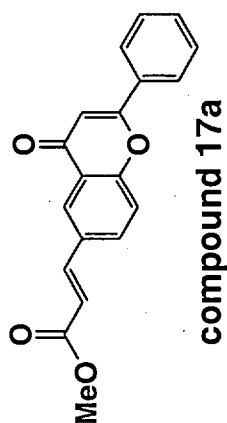
FT size 32768

Total time 0 min, 15 sec



32

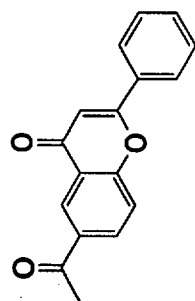
JA A 172B
 Pulse Sequence: s2pu1
 Solvent: cdcl3
 Temp: 25.0 C / 298.1 K
 INOVA-500 "1ccb-nmr"
 PULSE SEQUENCE
 Relax: delay 2.000 sec
 Pulse: 52.7 degrees
 Acq: time 0.800 sec
 Width: 28001.4 Hz
 4240 repetitions
 OBSERVE C13, 125.6585743 MHz
 DECOUPLE H1, 499.7378656 MHz
 Power: 35 dB,
 continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.5 Hz
 FT size 32768
 Total time 12 hr, 29 min, 23 sec



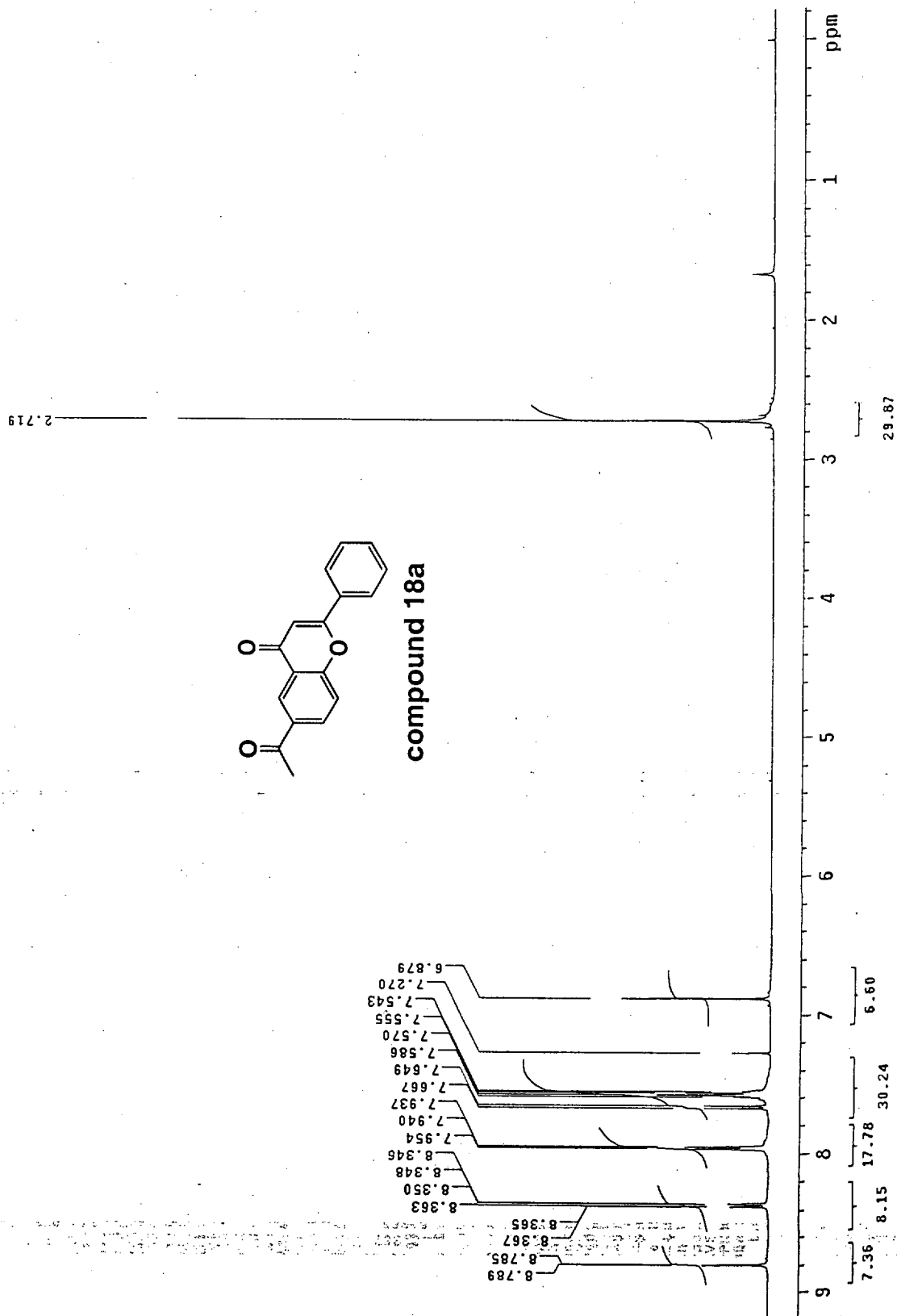
33

STANDARD PROTON PARAMETERS

Pulse Sequence: s2pu1
 Solvent: CDCl3
 Temp: 25.0 C / 298.1 K
 INOVA-500 "iccb-nmr"
 PULSE SEQUENCE
 Pulse 45.0 degrees
 Acq. time 1.892 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7355375 MHz
 DATA PROCESSING
 FI size 32768
 Total time 0 min, 15 sec



compound 18a



34

JALIA-172B

Pulse Sequence: s2pul

Solvent: cdcl3

Temp. 25.0 C / 298.1 K

INQVA-500 "iccb-nmr"

PULSE SEQUENCE

Relax. delay 2.000 sec

Pulse 52.7 degrees

Acq. time 0.800 sec

Width 28001.4 Hz

704 repetitions

OBSERVE C13, 125.6585743 MHz

DECOUPLE H1, 499.7378656 MHz

Power 35 dB

continuously on

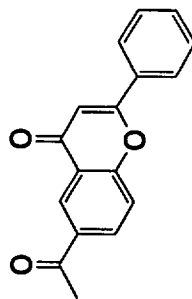
WALTZ-16 modulated

DATA PROCESSING

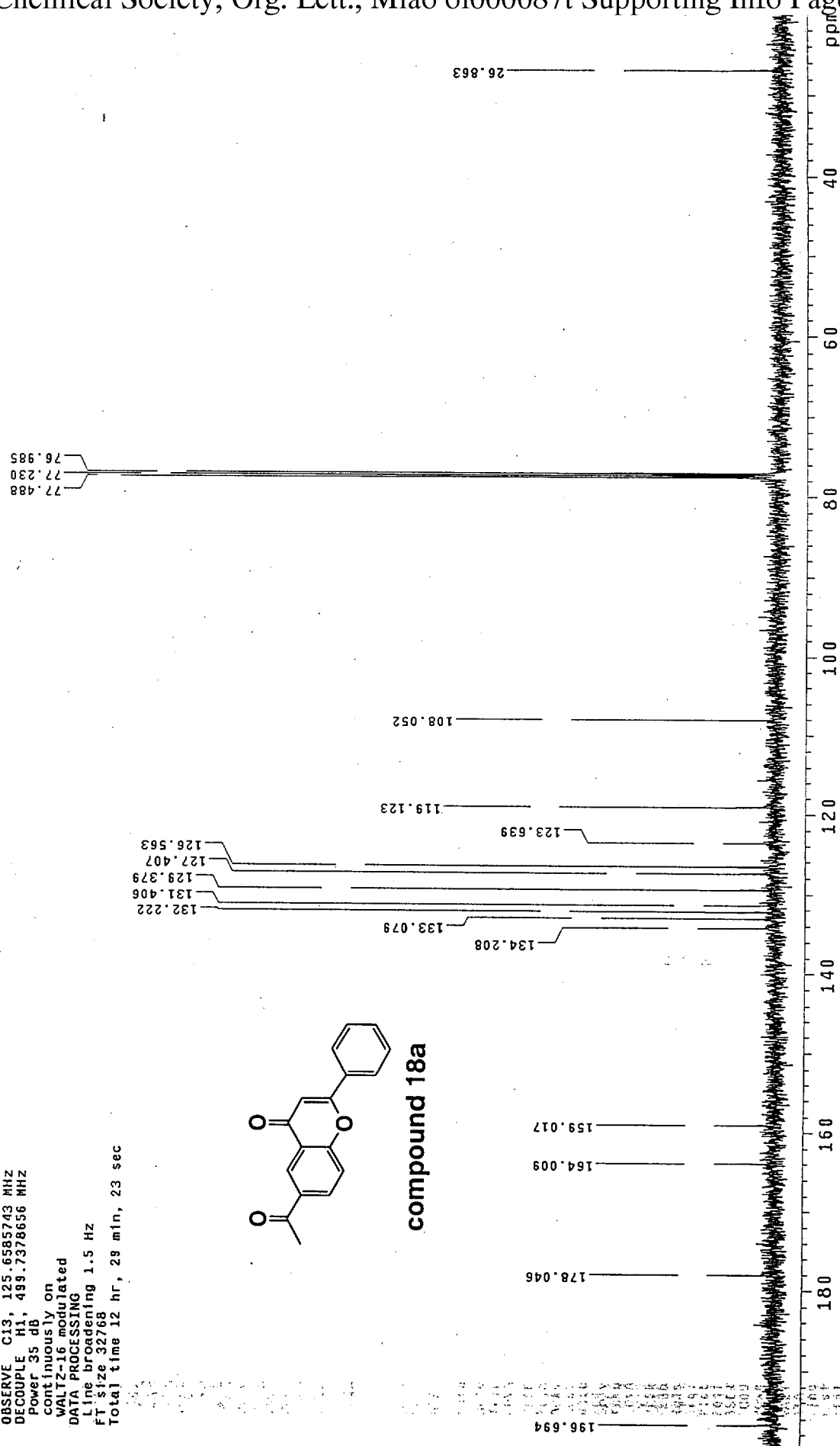
Line broadening 1.5 Hz

FT size 32768

Total time 12 hr, 29 min, 23 sec



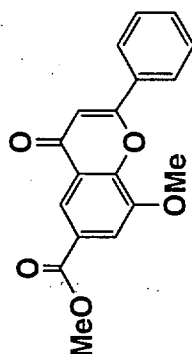
compound 18a



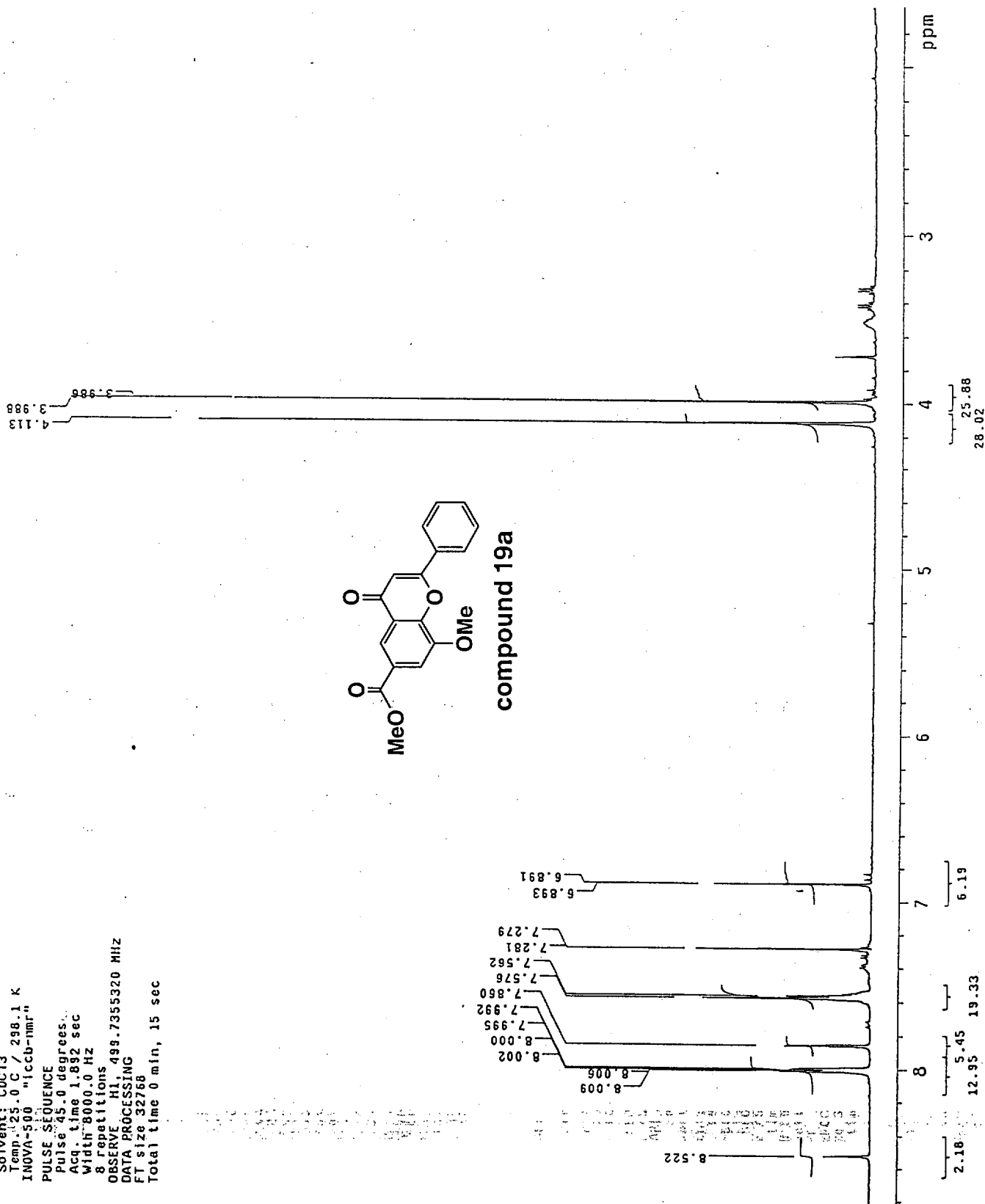
35

STANDARD PROTON PARAMETERS

Pulse Sequence: s2pu1
Solvent: CDCl3
Temp: 25.0 C / 298.1 K
INOVA-500 "fcb-nmr"
PULSE SEQUENCE
Pulse 45.0 degrees
Acq. time 1.892 sec
Width 8000.0 Hz
8 repetitions
OBSERVE H1, 499.7355320 MHz
DATA PROCESSING
FT size 32768
Total time 0 min, 15 sec



compound 19a



36

JA A 1720

Pulse Sequence: s2pul

Solvent: cdcl3

Temp: 25.0 C / 298.1 K

INOVAPRO "fcb-nmr"

PULSE SEQUENCE

Relax delay 2.000 sec

Pulse 52.7 degrees

Acq. time 0.800 sec

Width 28001.4 Hz

16000 Repetitions

OBSERVE C13, 125.6585726 MHz

DECOUPLE H1, 499.7378656 MHz

Power 35 dB,

continuously on

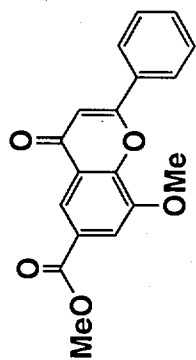
WALTZ-16 modulated

DATA PROCESSING

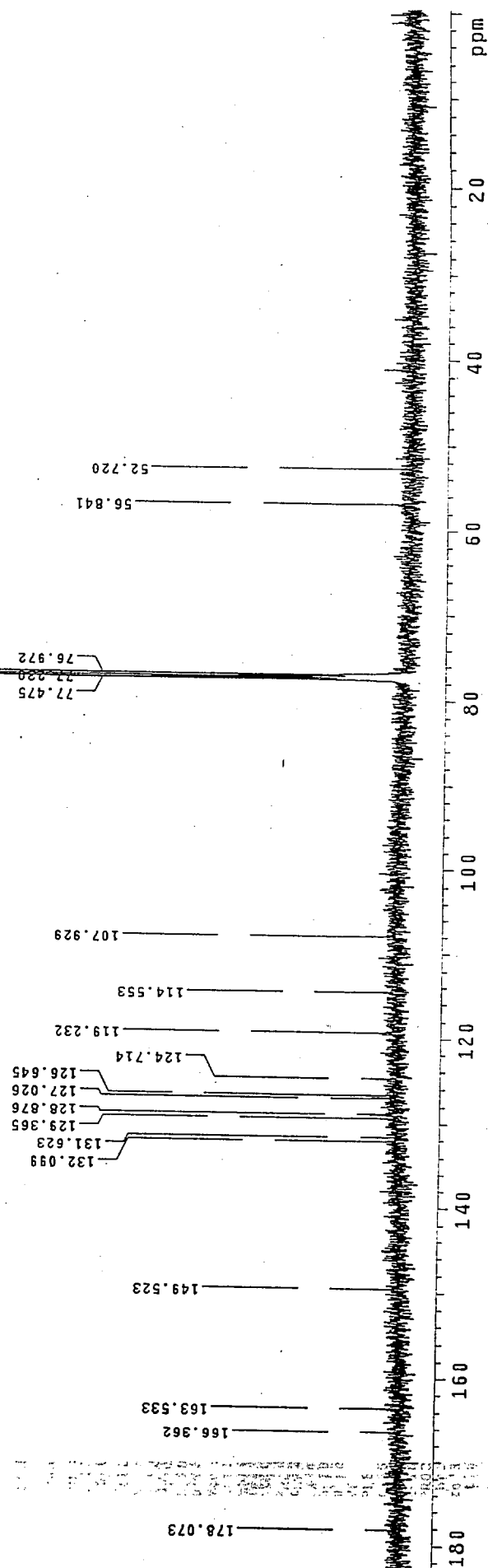
Line broadening 1.0 Hz

FT size 32768

Total time 12 hr, 29 min, 23 sec



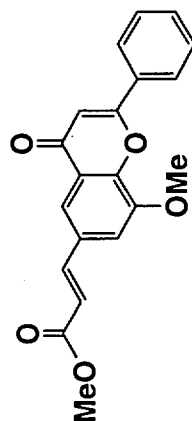
compound 19a



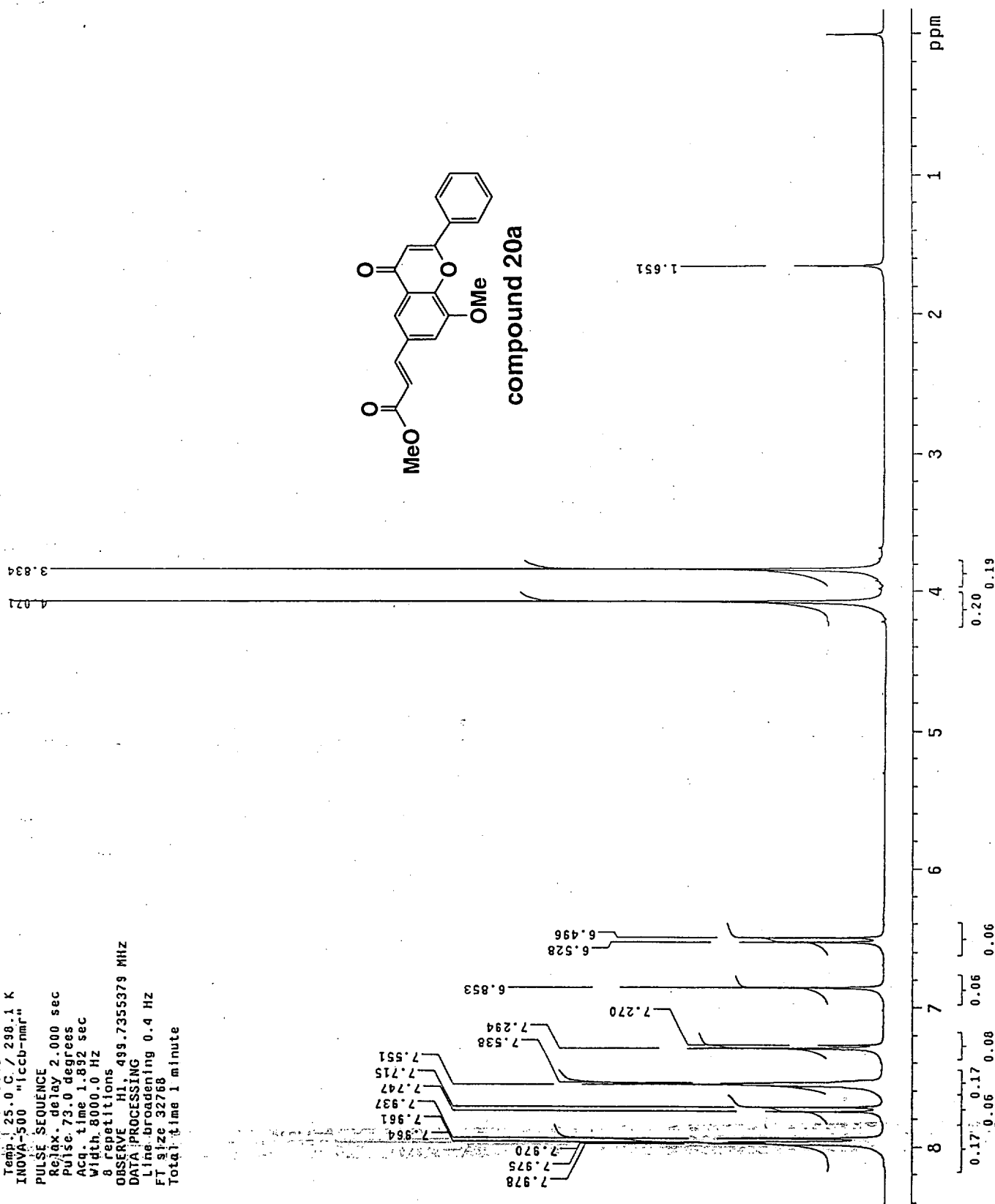
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STANDARD PROTON PARAMETERS

Solvent: CDCl₃
 Temp: 25.0 C / 298.1 K
 INOVA-500 "iccb-nmr"
 PULSE SEQUENCE
 Relax. delay 2.000 sec
 Pulse 73.0 degrees
 Acq. time 1.892 sec
 Width 8000.0 Hz
 8 repetitions
 OBSERVE H1, 499.7355379 MHz
 DATA PROCESSING
 Line broadening 0.4 Hz
 FT size 32768
 Total time 1 minute

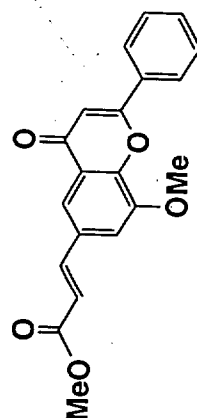


compound 20a

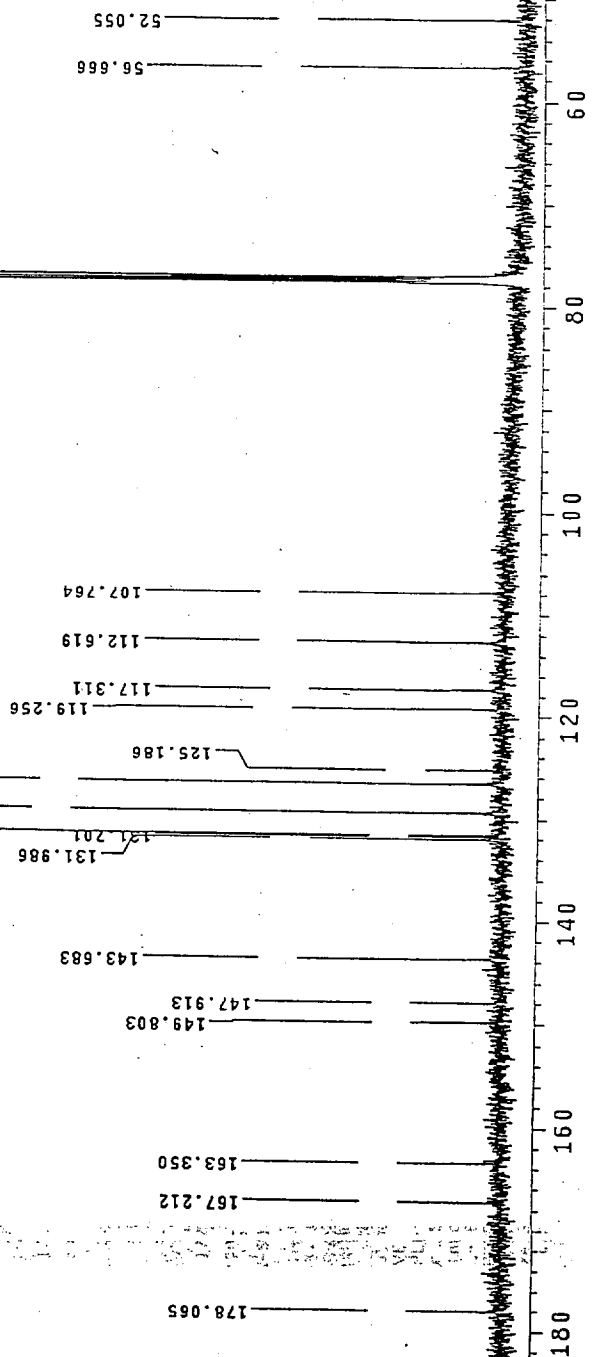


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JA A 1720
 Solvent: cdcl3
 Temp: 25.0 C / 298.1 K
 INOVA-500 "1ccb-nmr"
 PULSE SEQUENCE
 Relax: delay 2.000 sec
 Pulse: 52.7 degrees
 Acq: time 0.800 sec
 Width: 28001.4 Hz
 14336 repetitions
 OBSERVE C13, 125.6585735 MHz
 DECOUPLE H1, 499.7378656 MHz
 Power: 35 dB
 Continuously on
 WALTZ-16 modulated
 DATA PROCESSING
 Line broadening 1.5 Hz
 FT size 32768
 Total time 11.2 hours



compound 20a



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