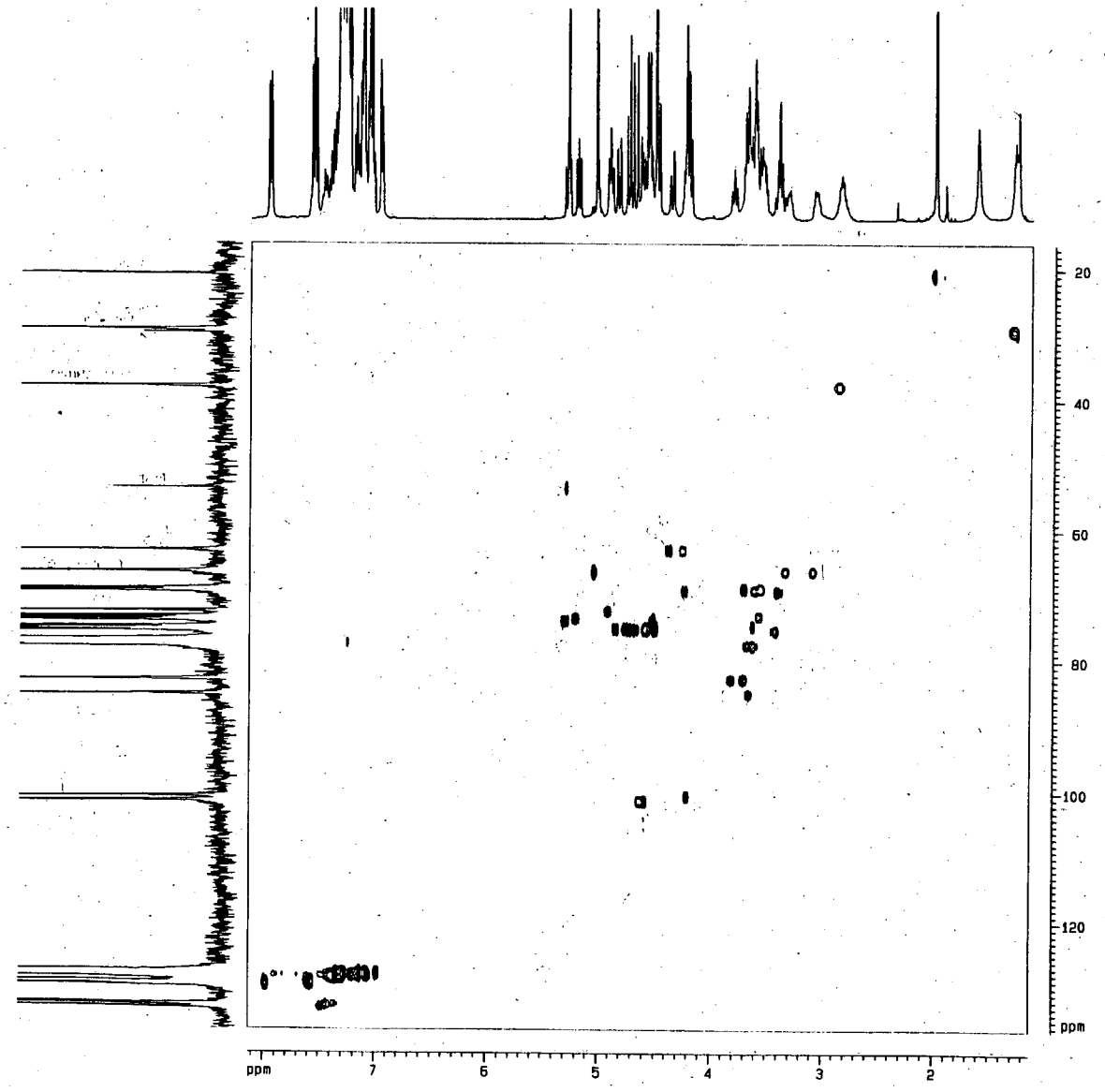
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8.

R Geurtsen Protected trisaccharide R4/41/1 in CDCl3 at +31C, set temp
Gradient HSQC experiment (Inverse CH correlation) (AMX400)



Current Data Parameters

NAME	oc2irg1
EXPNO	3
PROCNO	1

F2 - Acquisition Parameters

Date_	971021
Time	19.10
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PROBHD	5 mm QNP 1H
PULPROG	invigatp
TD	2048
SOLVENT	CDCl3
NS	16
DS	16
SWH	3311.258 Hz
FIDRES	1.616625 Hz
AQ	0.3092980 sec
RG	32768
DW	151.000 usec
DE	215.71 usec
TE	233.0 K
P16	1000.00 usec
L21	100
P1	10.50 usec
P3	15.50 usec
CNST2	145.0000000
D16	0.00010000 sec
HL1	4 dB
D11	0.0300000 sec
DL0	18.00 dB
D1	2.00000000 sec
D4	1724.1379395 sec
P2	21.0 usec
P4	31.0 usec
SFO2	100.6216958 MHz
DECNUC	13C
D20	0.0011000 sec
D13	0.0000040 sec
D27	0.0000080 sec
D0	0.0000030 sec
D21	0.0006161 sec
DE	215.71 usec
SFO1	400.1361607 MHz
NUCLEUS	1H
CPDPRG	garp
P31	73.00 usec
IN0	0.00001450 sec

F1 - Acquisition parameters

ND0	4
TD	256
SFO1	100.6217 MHz
FIDRES	67.349136 Hz
SW	171.349 ppm

F2 - Processing parameters

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SF	400.1343941 MHz
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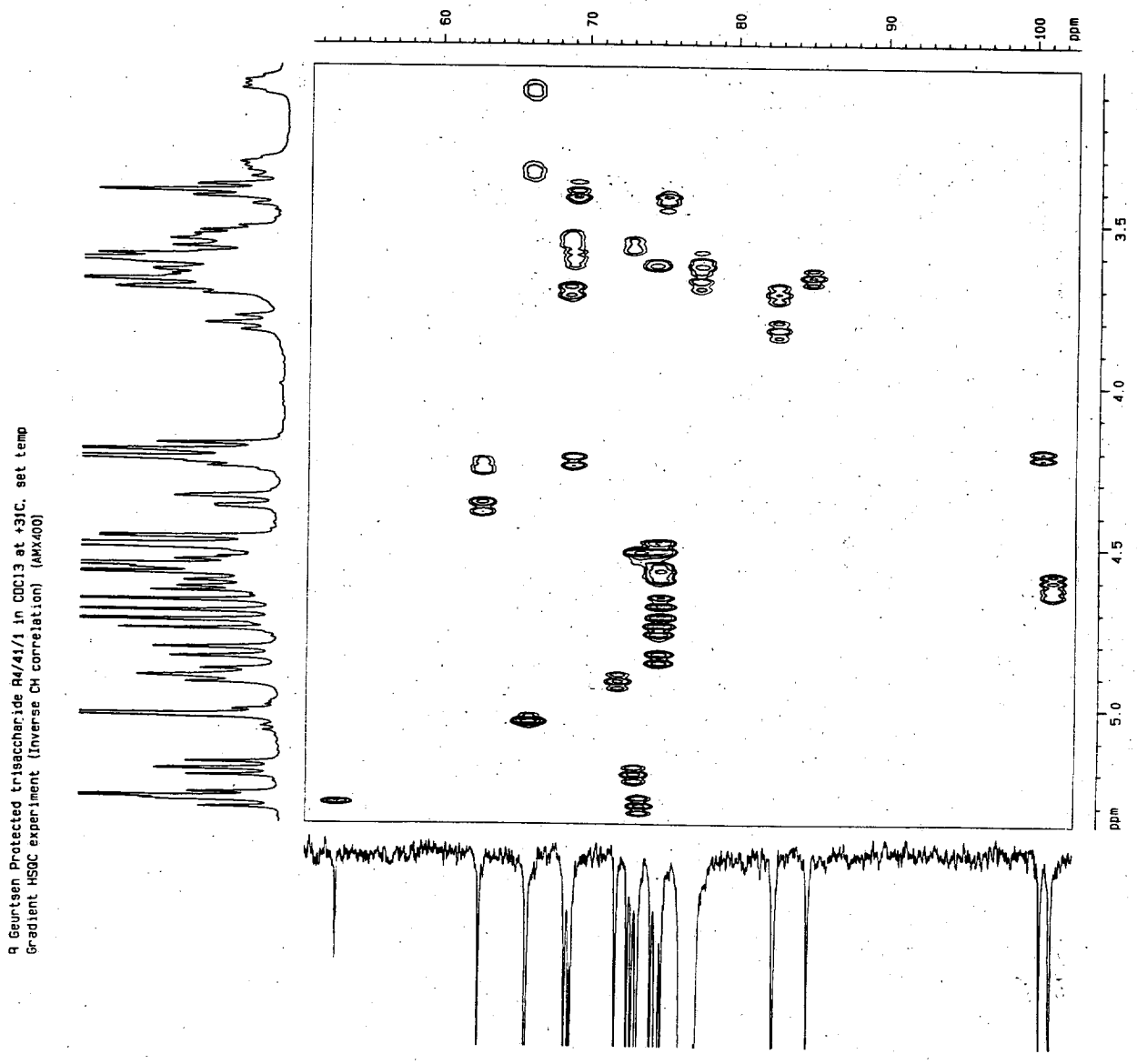
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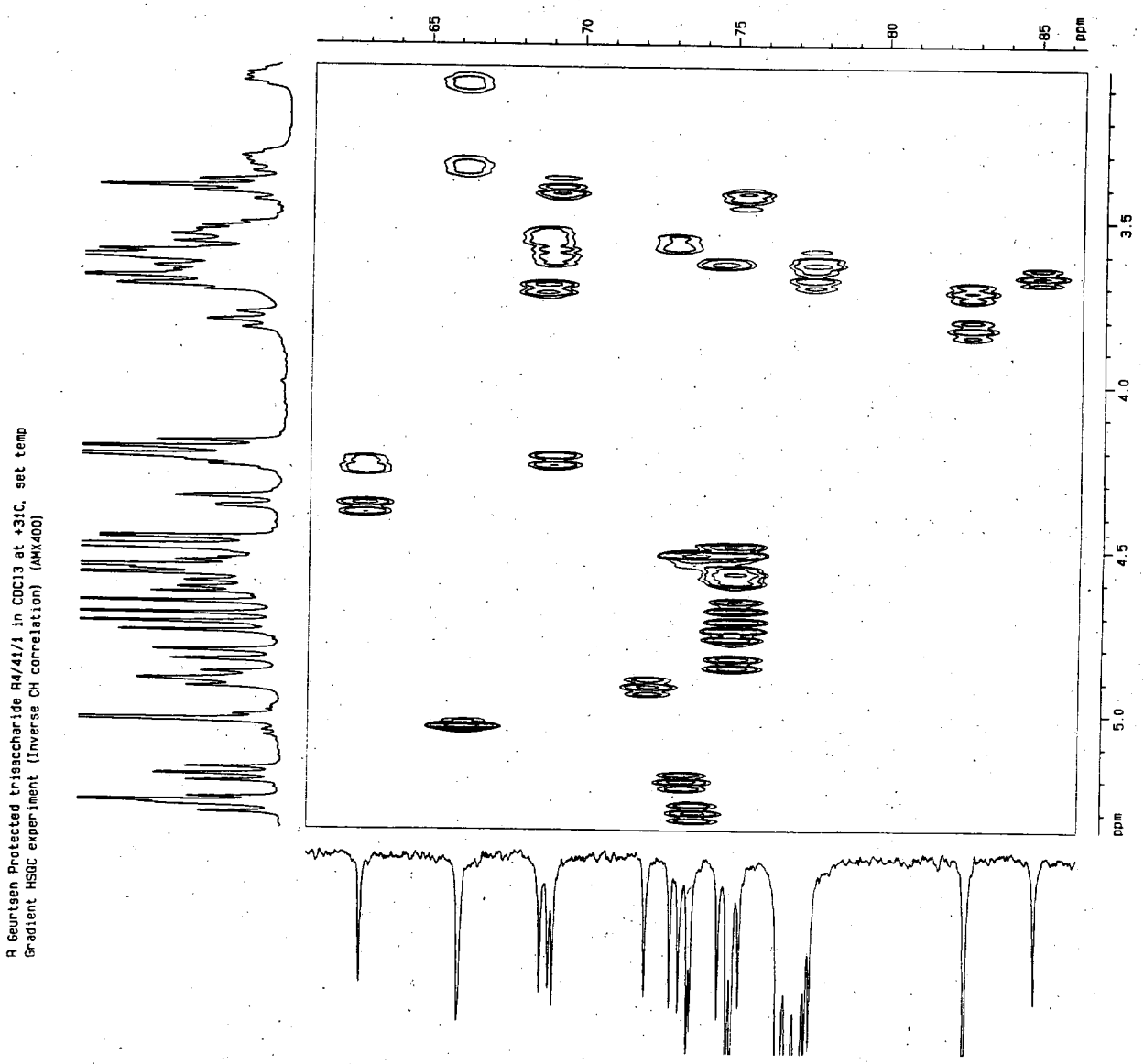
2D NMR plot parameters

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F2PHI	1.130 ppm
F2HI	452.10 Hz
F1PLO	136.480 ppm
F1LO	13731.75 Hz
F1PHI	16.156 ppm
F1HI	1625.74 Hz
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F2HZCM	164.82108 Hz/cm
F1PPMCM	7.07773 ppm/cm

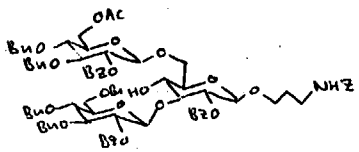
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RGE -R GEURTSEN

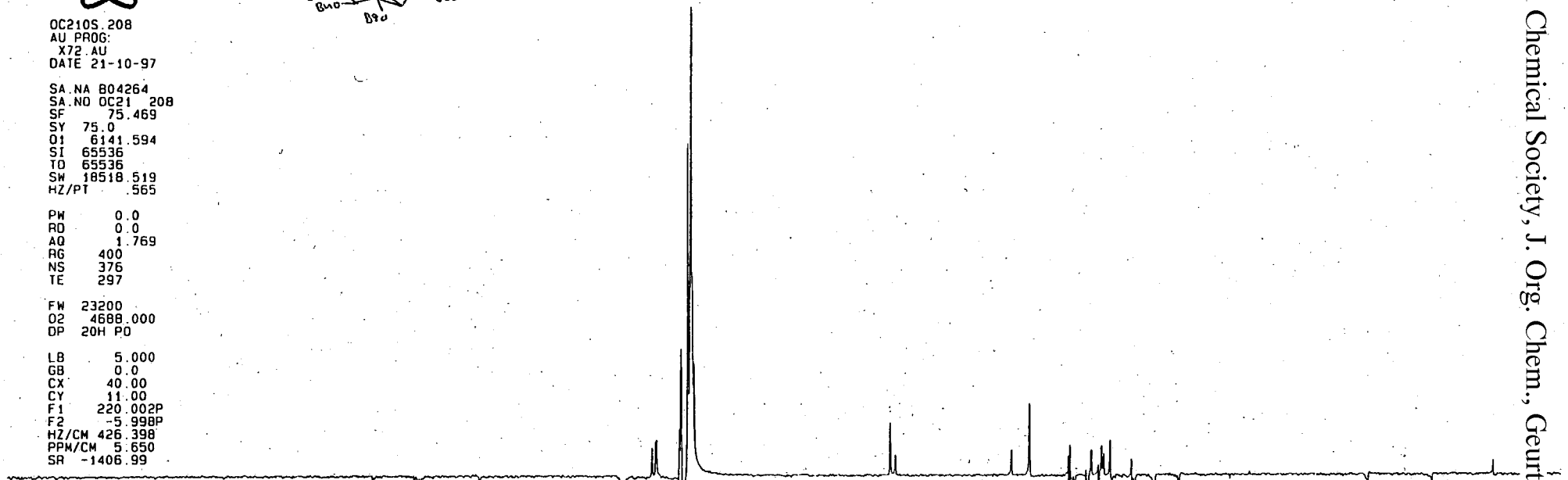
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DATE 21-10-97

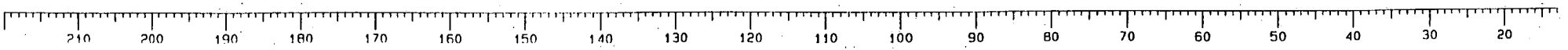
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SY 75.0
O1 6141.594
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SW 18518.519
HZ/PT .565

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RD 0.0
AQ 1.769
RG 400
NS 376
TE 297

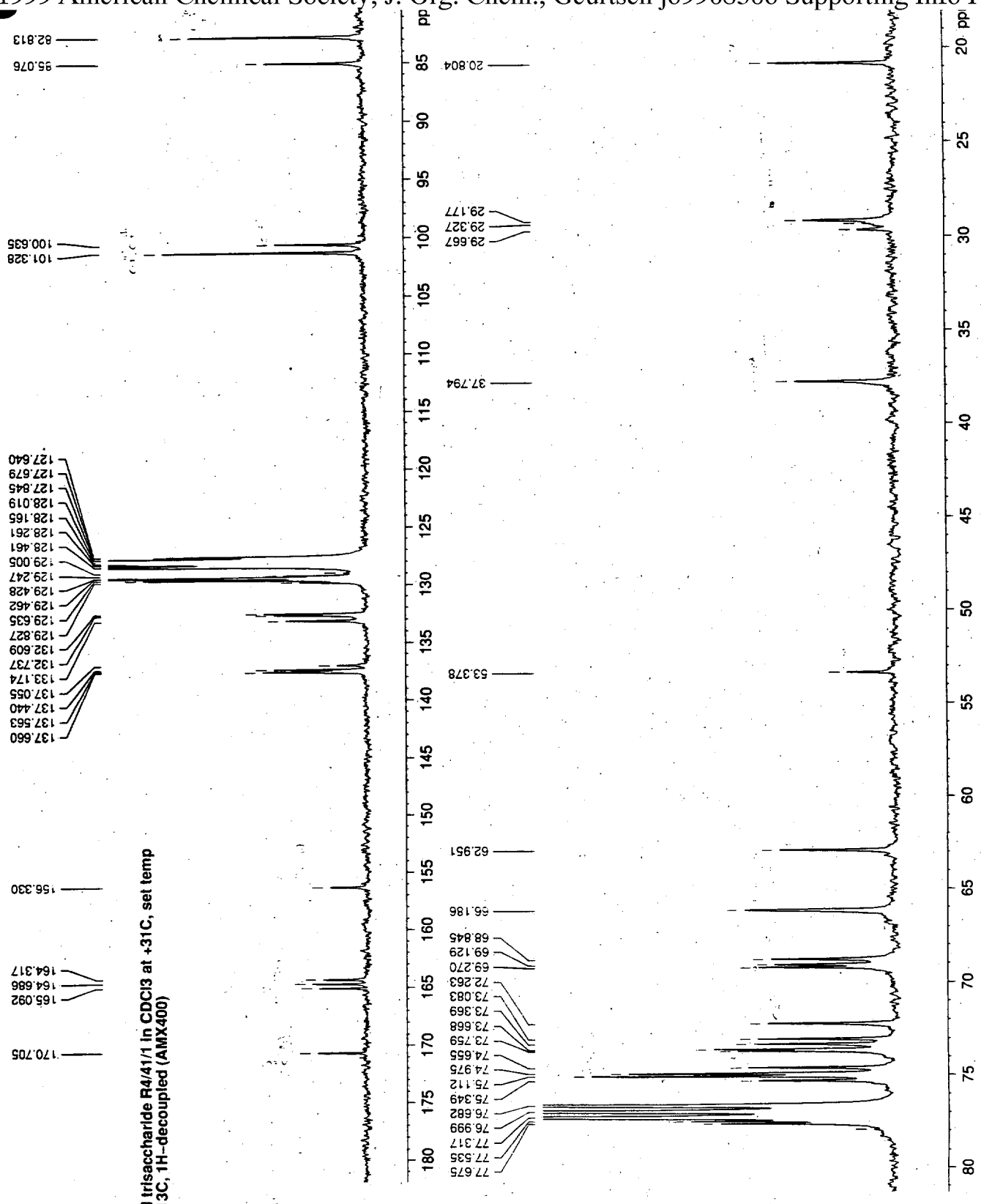
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DP 20H PO

LB 5.000
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CY 11.00
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PPM/CM 5.650
SR -1406.99

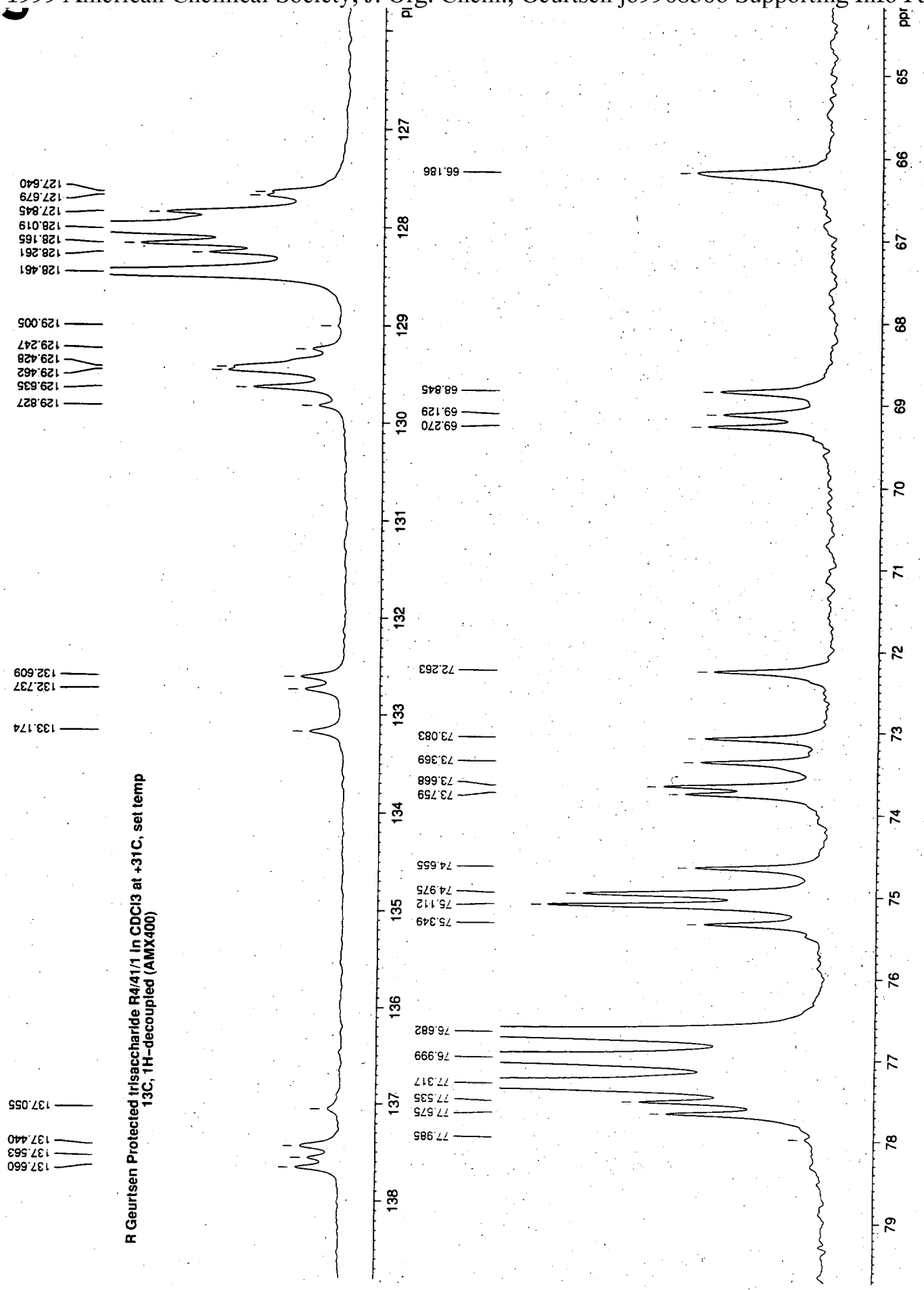


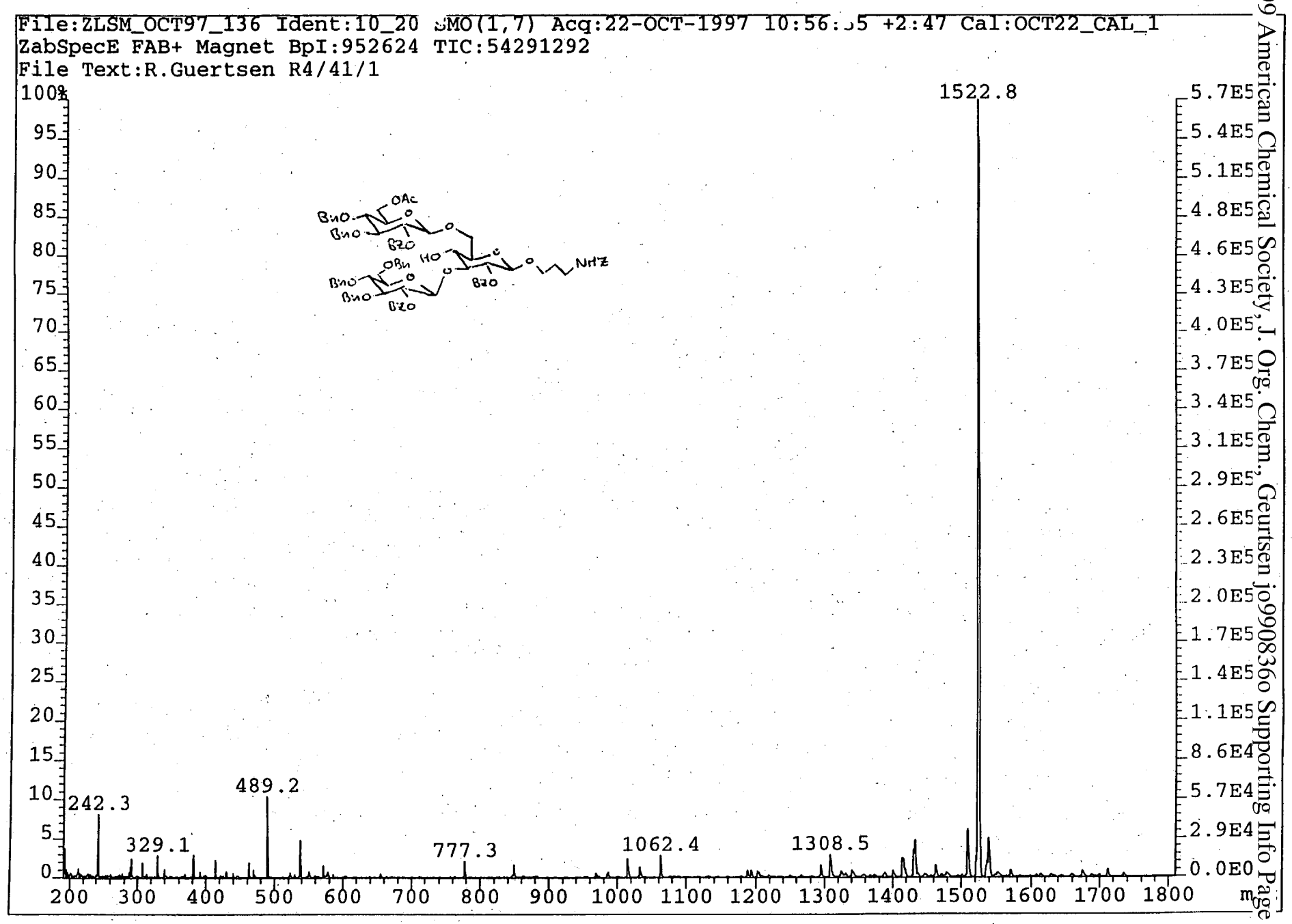


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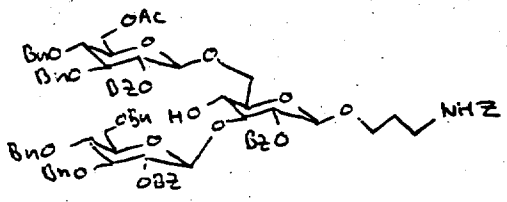
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ZabSpecE FAB+ Voltage BpI:715840 TIC:27708972 Flags:NORM DEL ERR
File Text:R.Guertsen R4/41/1

8.

Heteroatom Max: 50 Ion: Both Even and Odd
Limits:

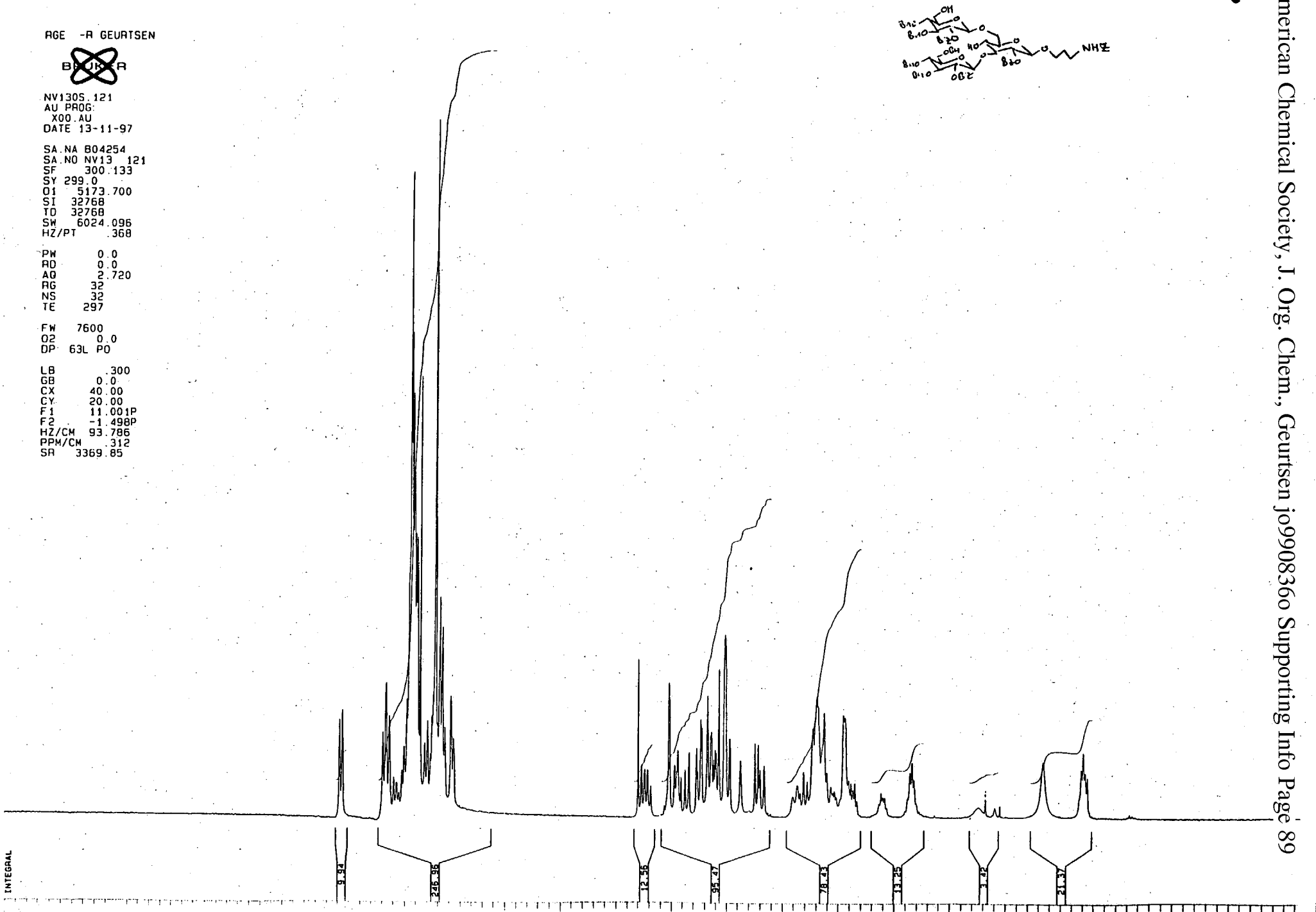
				-0.5	87	89	1	22	1
1522.574610	10.0			60.0	87	89	1	22	1

Mass	mDa	PPM	Calc. Mass	DBE	C	H	N	O	Na
1522.574610	2.8	1.8	1522.577394	43.5	87	89	1	22	1



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9.



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9.

RGE -A GEURTSEN

BRUKER

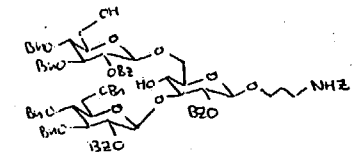
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DATE 22-10-97

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SA.NO OC22 158
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SY 299.0
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SI 32768
TD 32768
SW 6024.096
HZ/PT .368

PW 0.0
RD 0.0
AQ 2.720
RG 10
NS 32
TE 297

FW 7600
O2 0.0
DP 63L PO

LB .300
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CY 20.00
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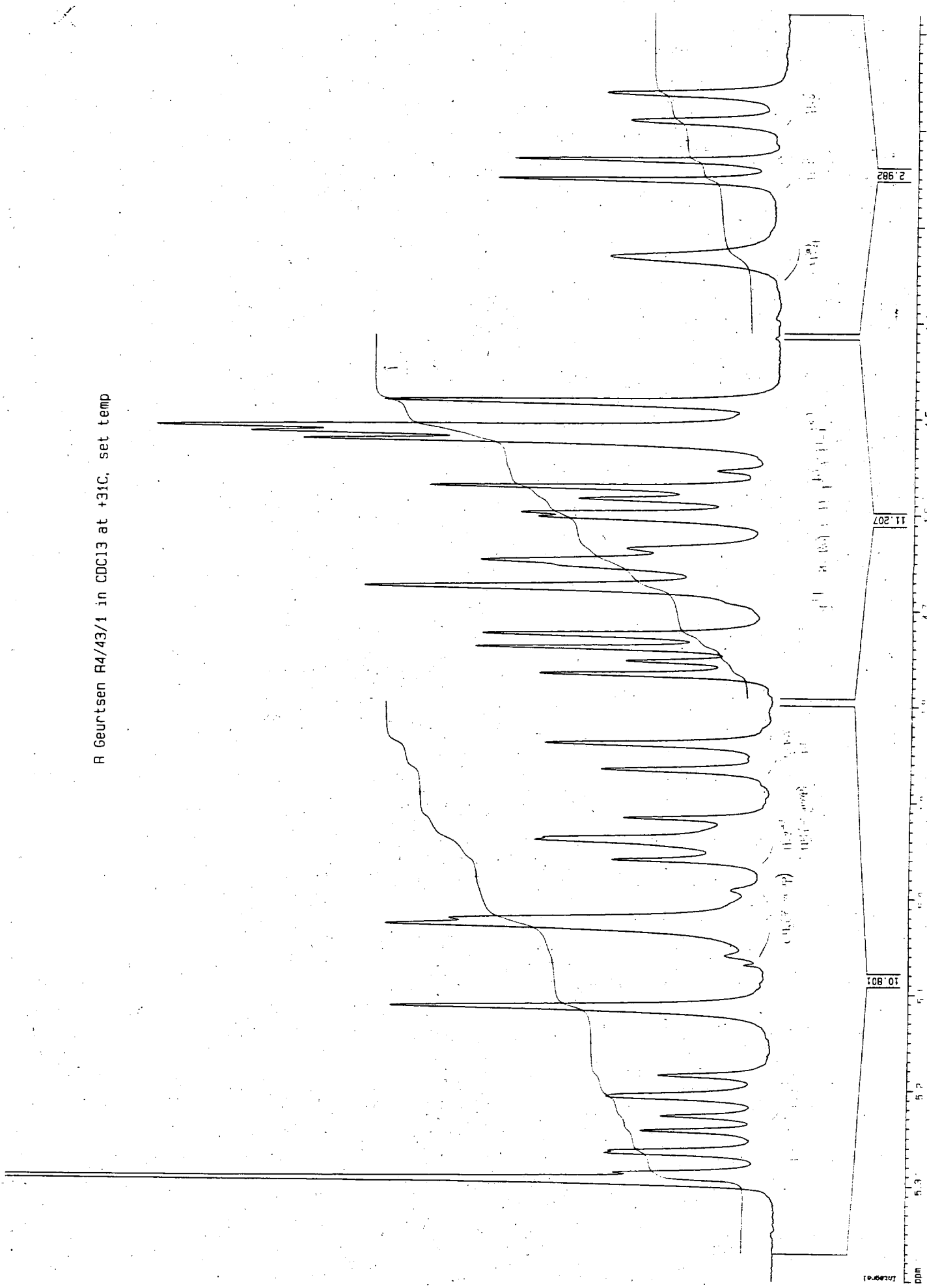


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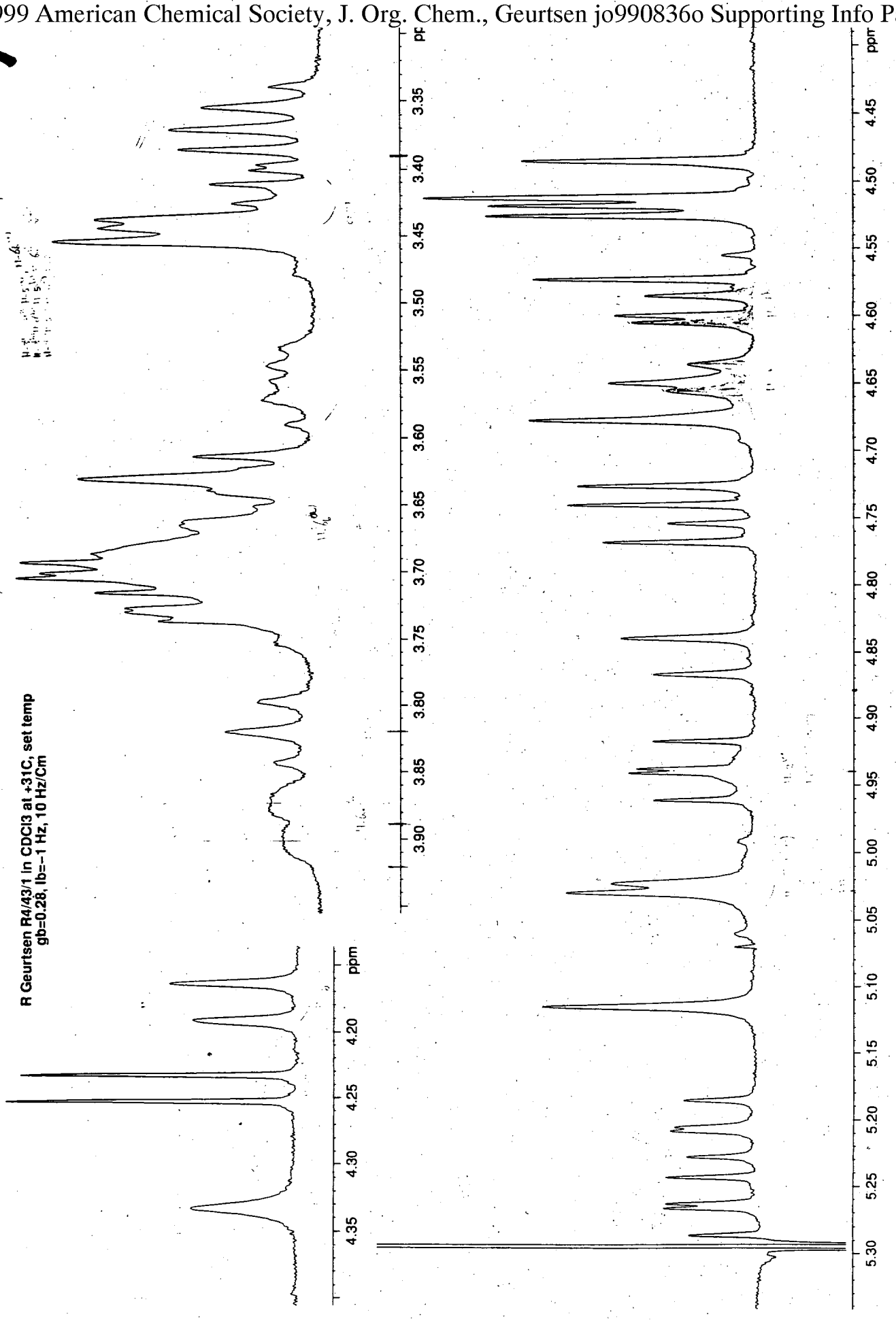
8.30
92.28
96.07
80.72
7.89
7.12
9.09

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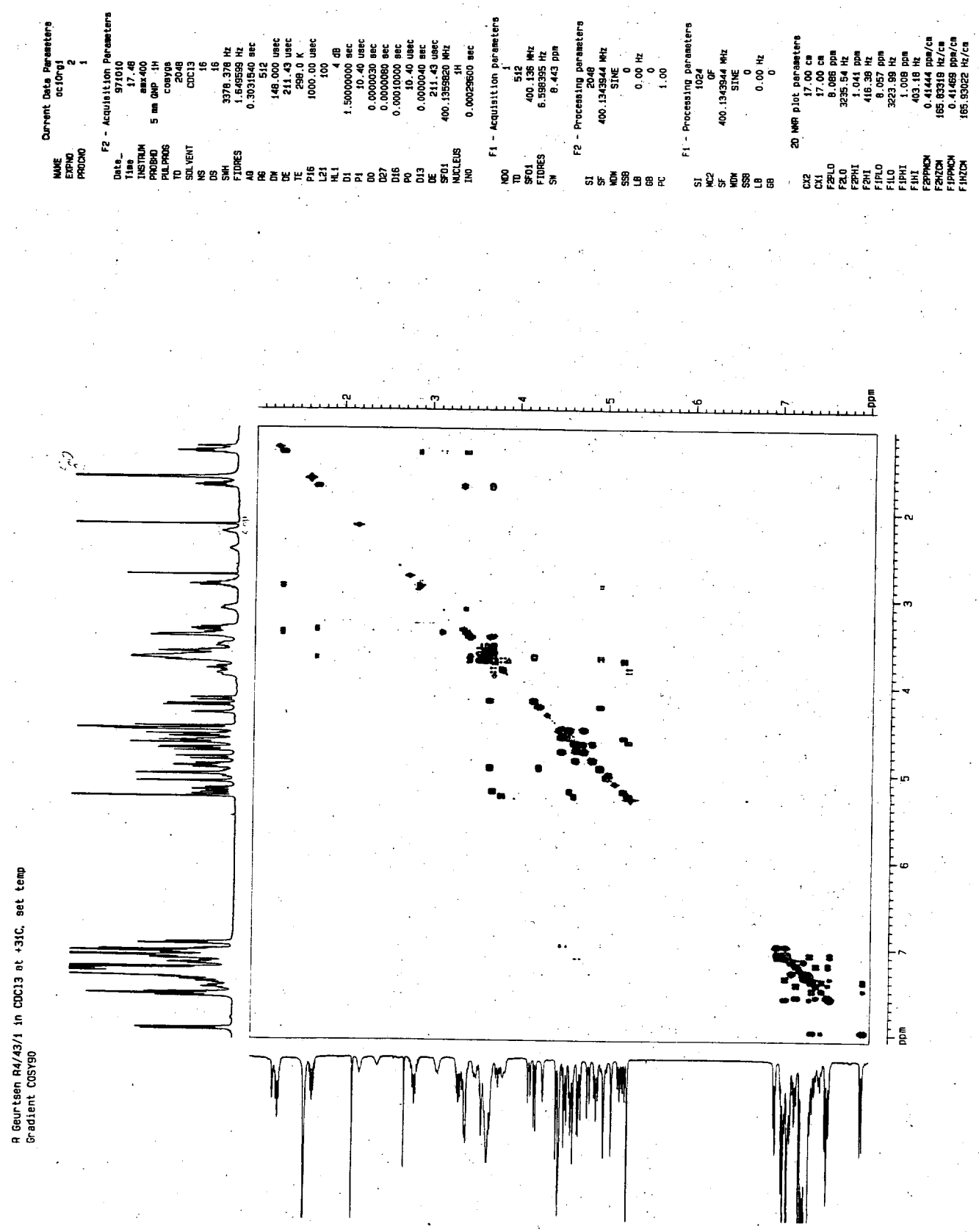
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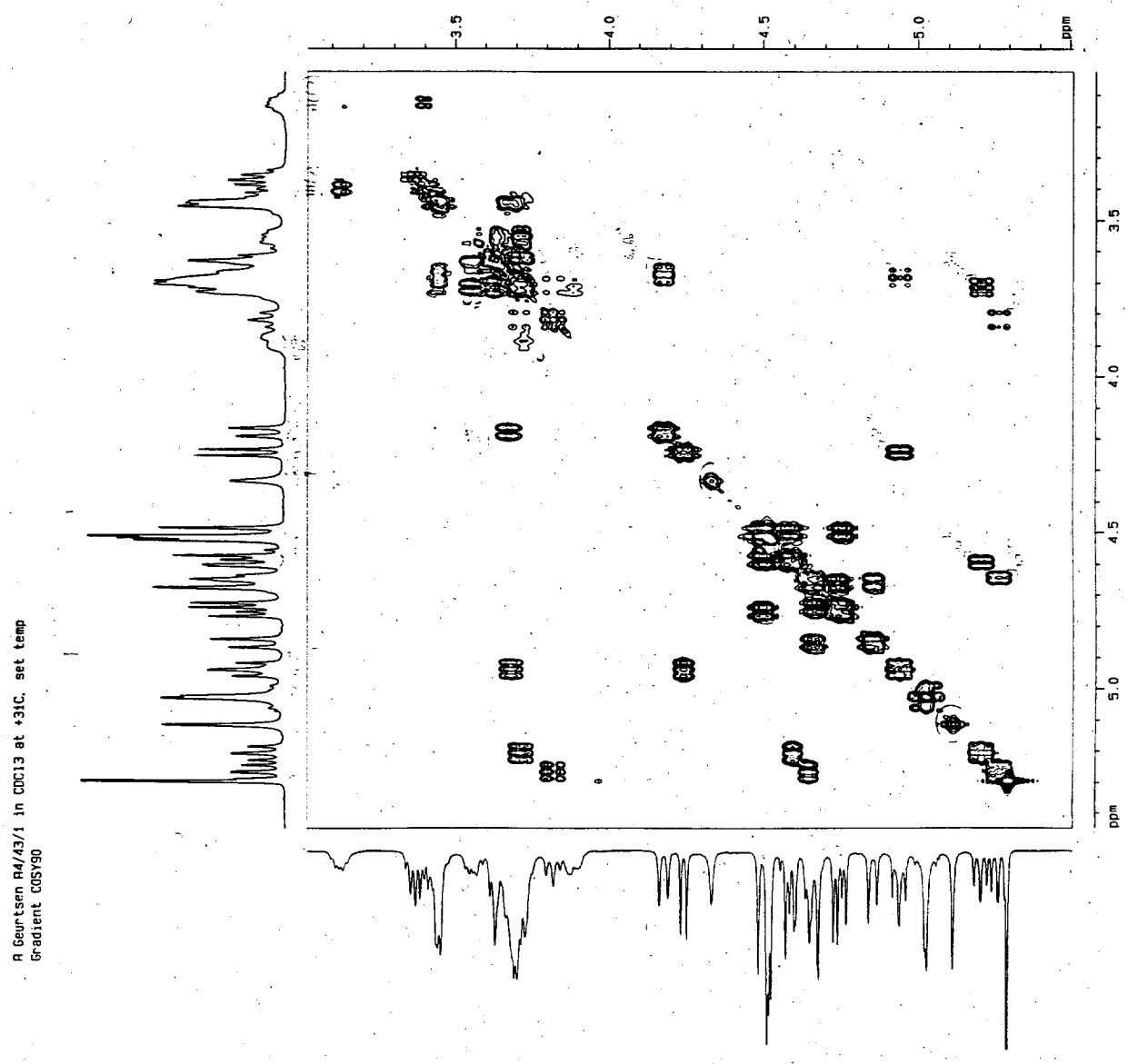
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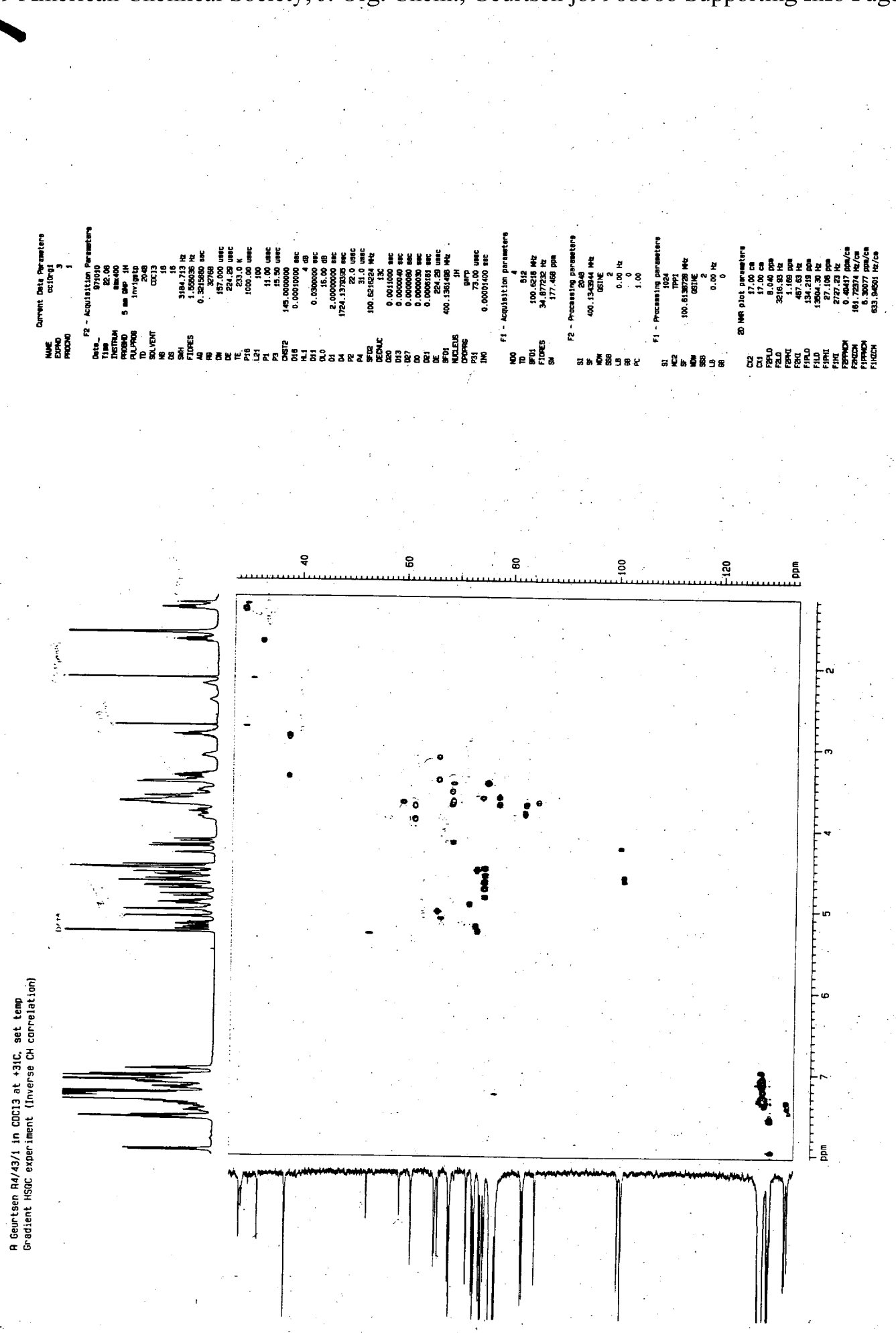
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Current Data Parameters
NAME                  octbrgl
EXPNO                       3
PROCNO                      1

F2 - Acquisition Parameters
Data_                  971010
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INSTRUM                 dmx400
PROBHD     5 mm BBI  1H
PULPROG                 invigs1p
TD                        2048
SOLVENT                   CDCl3
NS                          16
DS                          16
SWH                   3184.713 Hz
FIDRES                1.555036 Hz
AQ                    0.3215060 sec
RG                        32768
DW                      157.000 usec
DE                      224.29 usec
TE                      233.0 K
P16                    1000.00 usec
L21                         100
P1                        11.00 usec
P3                        15.50 usec
CNST2                 145.0000000
D16                   0.00010000 sec
PL1                       4 dB
D11                   0.0300000 sec
PL10                     16.00 dB
D1                    2.00000000 sec
D4                    1724.1379335 msec
P2                        22.0 usec
P4                        31.0 usec
SFO2                  100.6218224 MHz
DEUNUC                      13C
D20                   0.0011000 sec
D13                   0.0000040 sec
D27                   0.0000080 sec
D0                    0.0000030 sec
D21                   0.0006161 sec
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SFO1                  400.1361498 MHz
NUCLEUS                     1H
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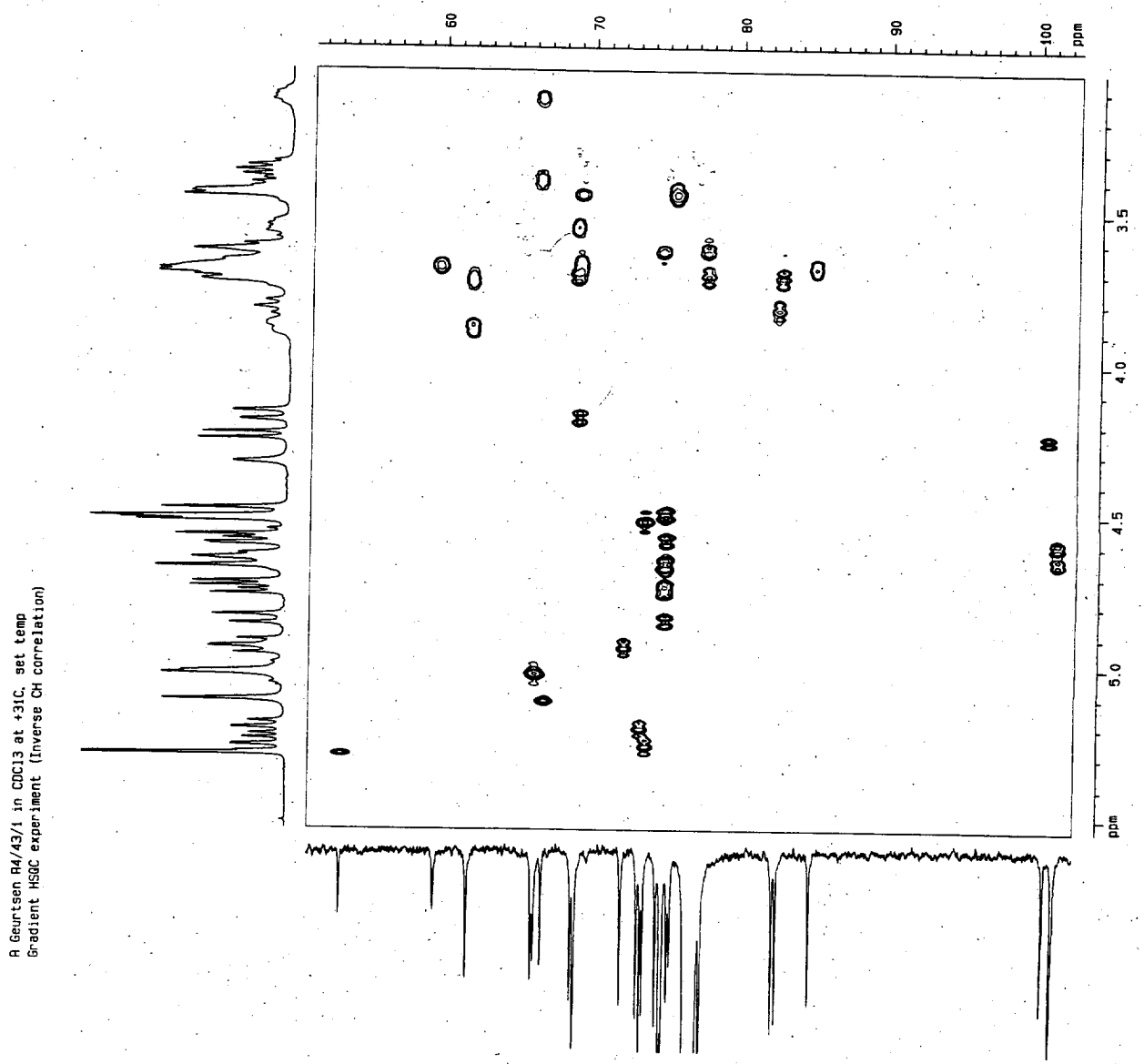
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SFO1                  34.877232 Hz
FIDRES                177.458 ppm
SW

F2 - Processing parameters
SI                        2048
SF                    400.1343944 MHz
WDW                       QSINE
SSB                           2
LB                     0.00 Hz
GB                            0
PC                         1.00

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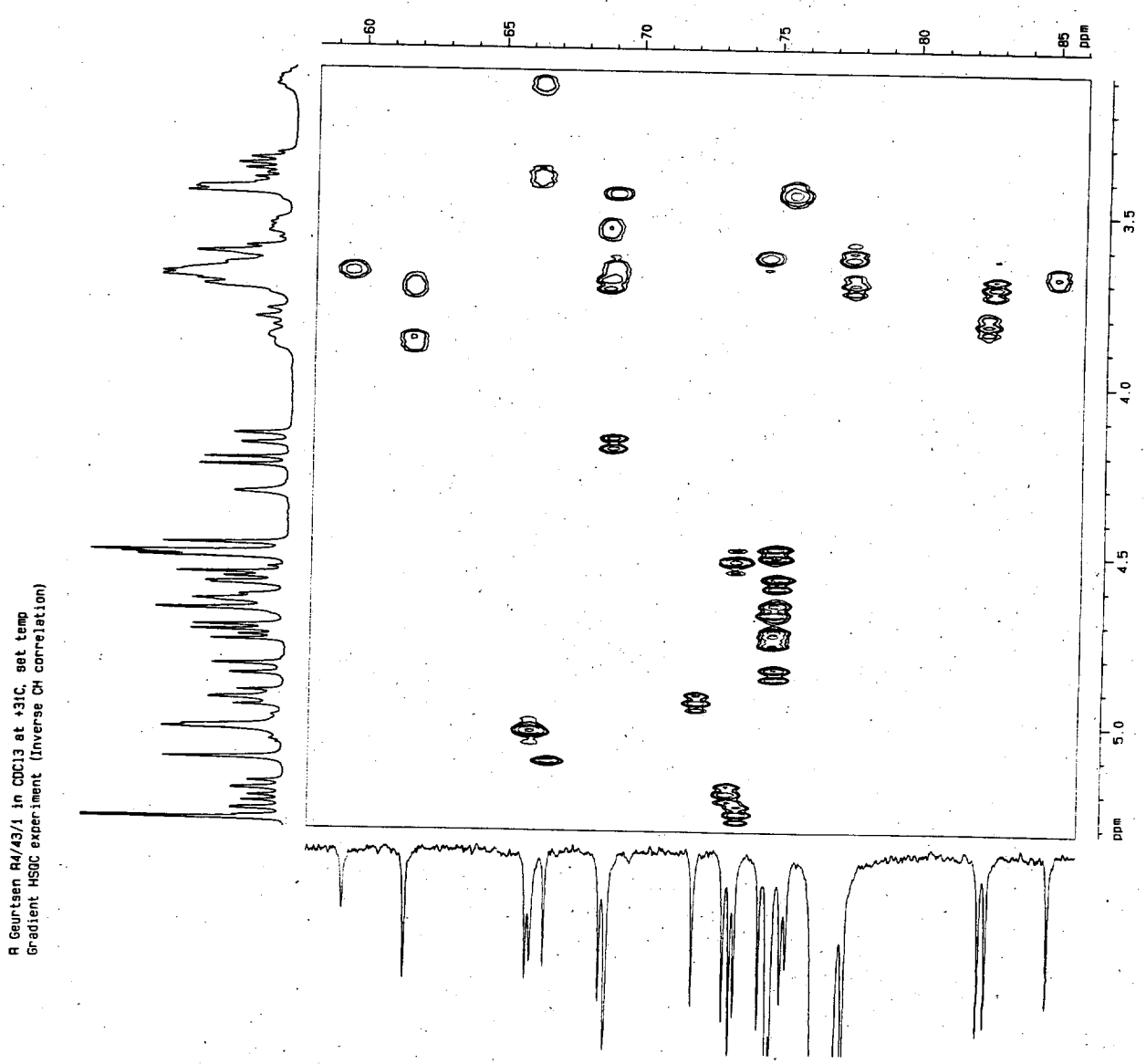
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CY1                     17.00 cm
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F2LO                 3216.83 Hz
F2HI                    1.169 ppm
F2HZ                  457.63 Hz
F1PLO                   134.219 ppm
F1LO                 13504.30 Hz
F1PHI                   27.105 ppm
F1HI                 2727.23 Hz
F2PPMCM                 0.40417 ppm/cm
F2HZCM               161.72374 Hz/cm
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F1HZCM               633.94651 Hz/cm
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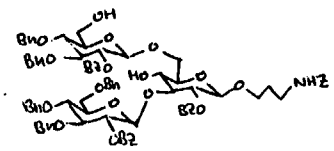
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9



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9.



RGE -A GEURTSEN

BRUKER

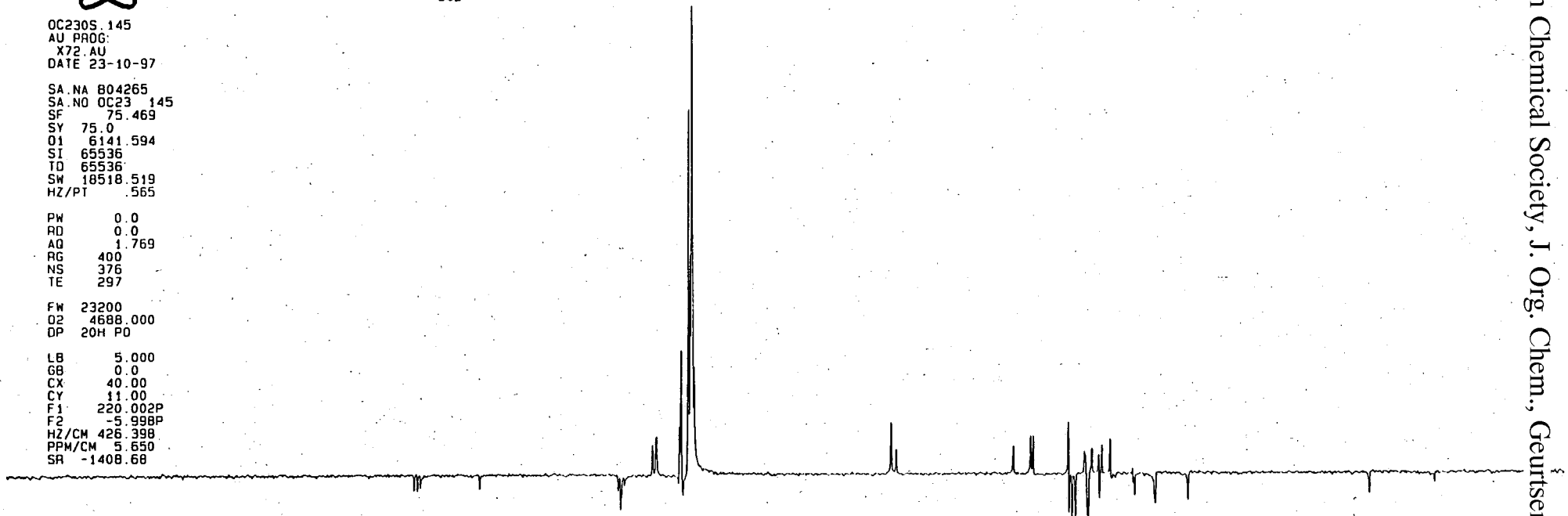
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DATE 23-10-97

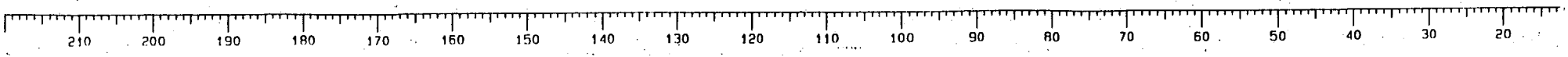
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NS 376
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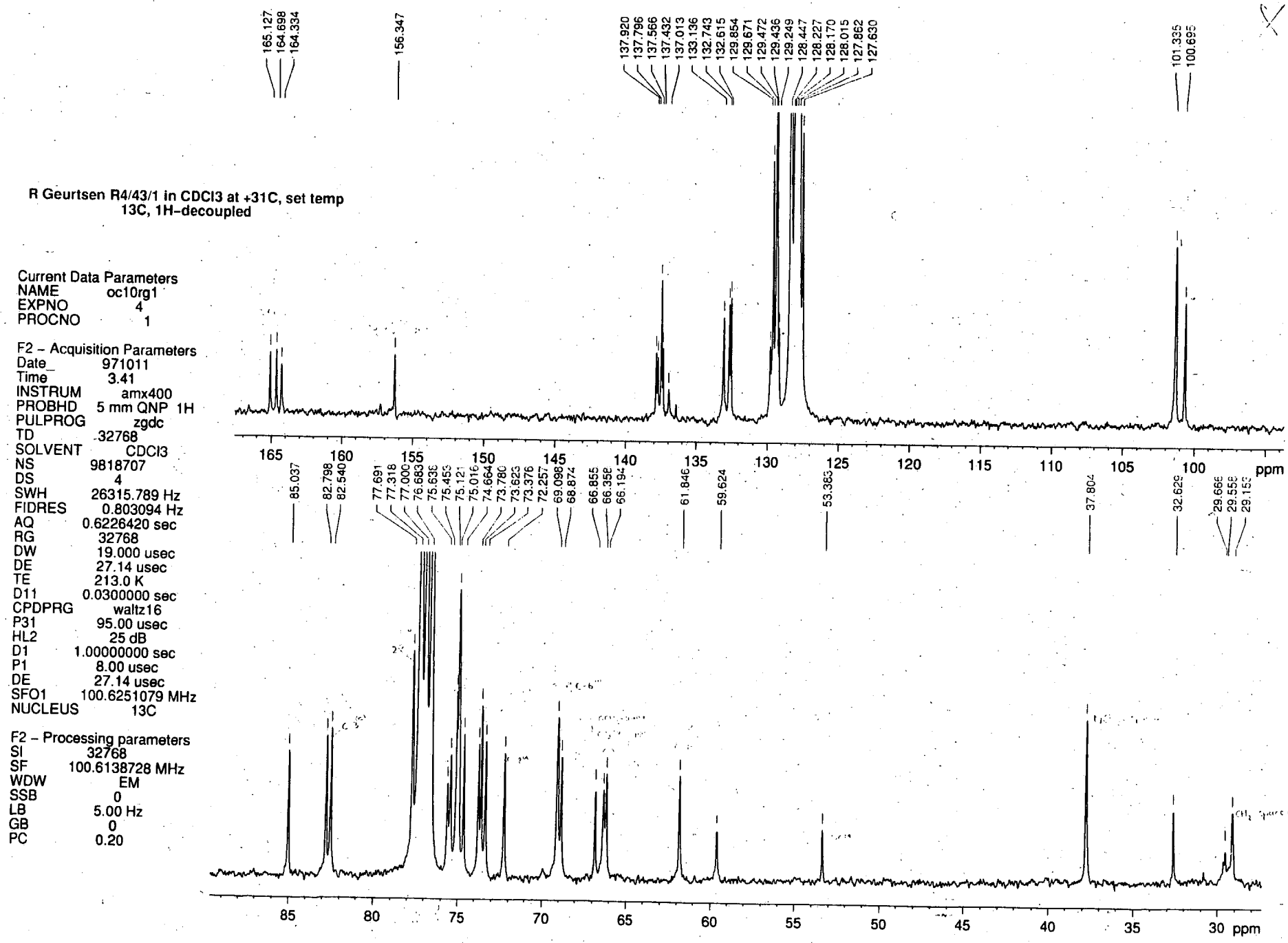
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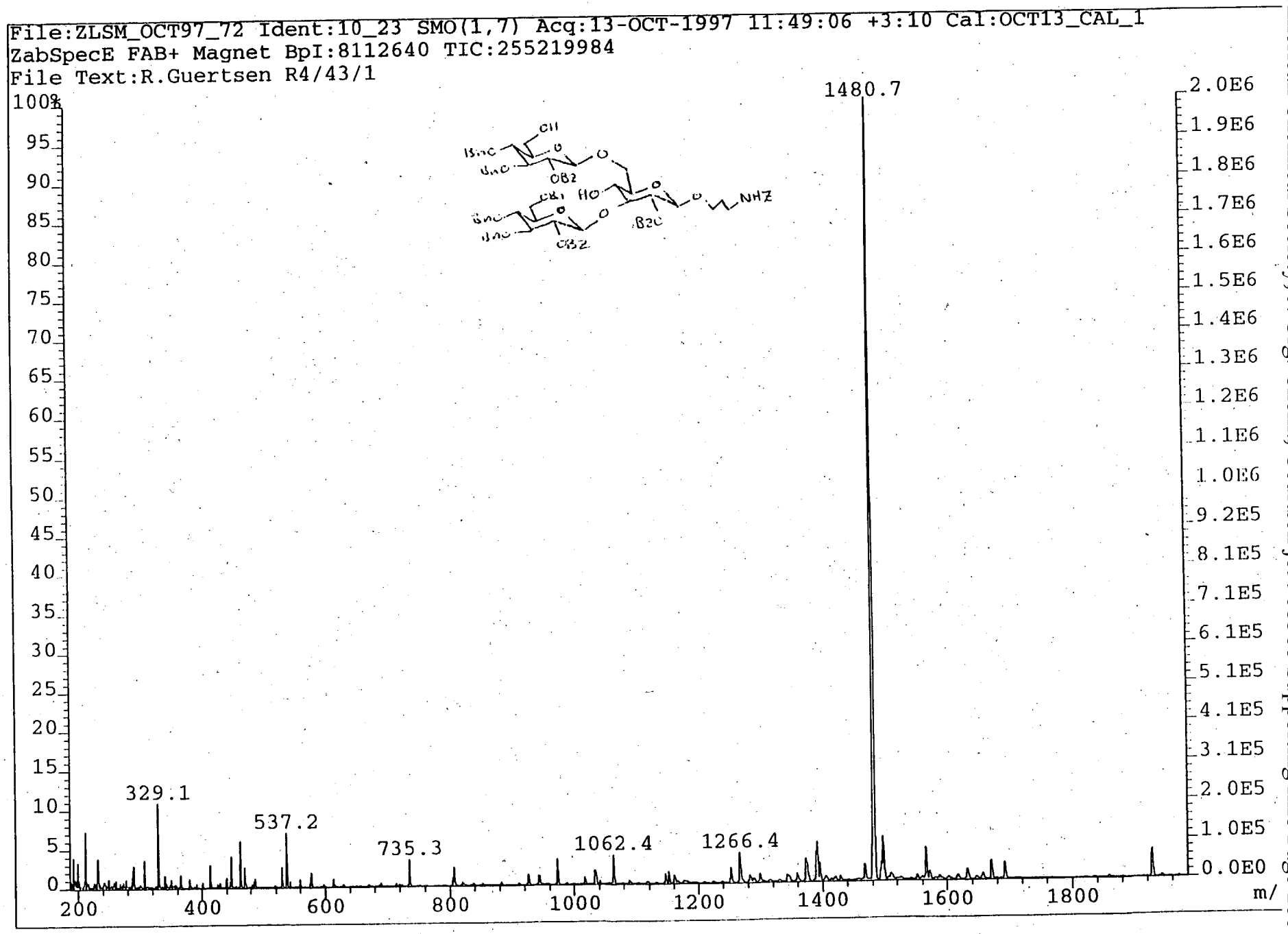




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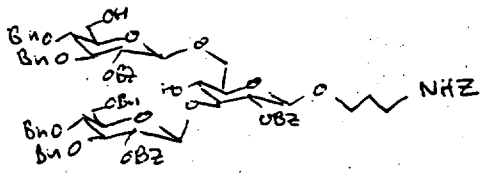
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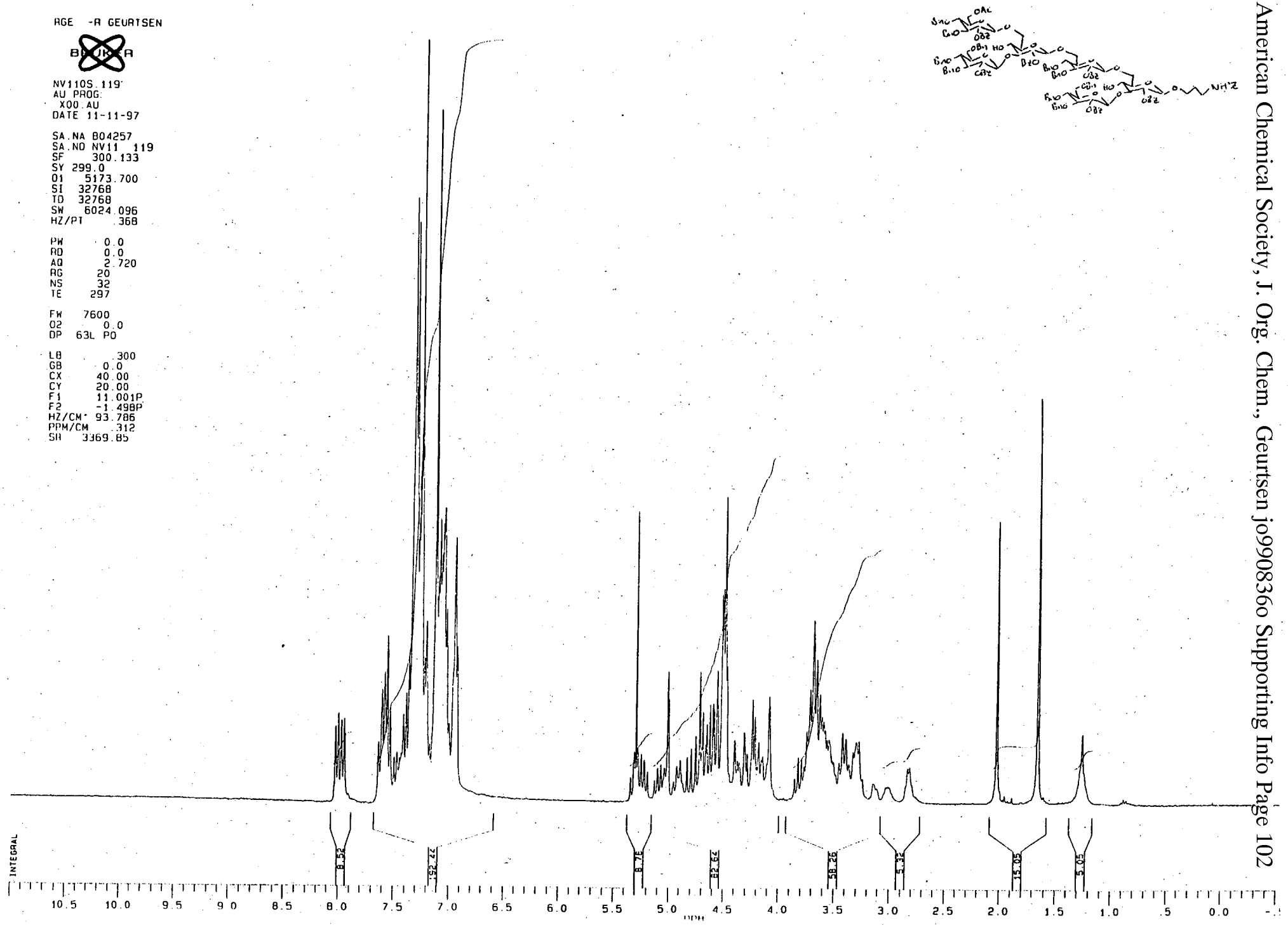
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Limits:

			-0.5	85	87	1	21	1
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Mass	mDa	PPM	Calc. Mass	DBE	C	H	N	O	Na
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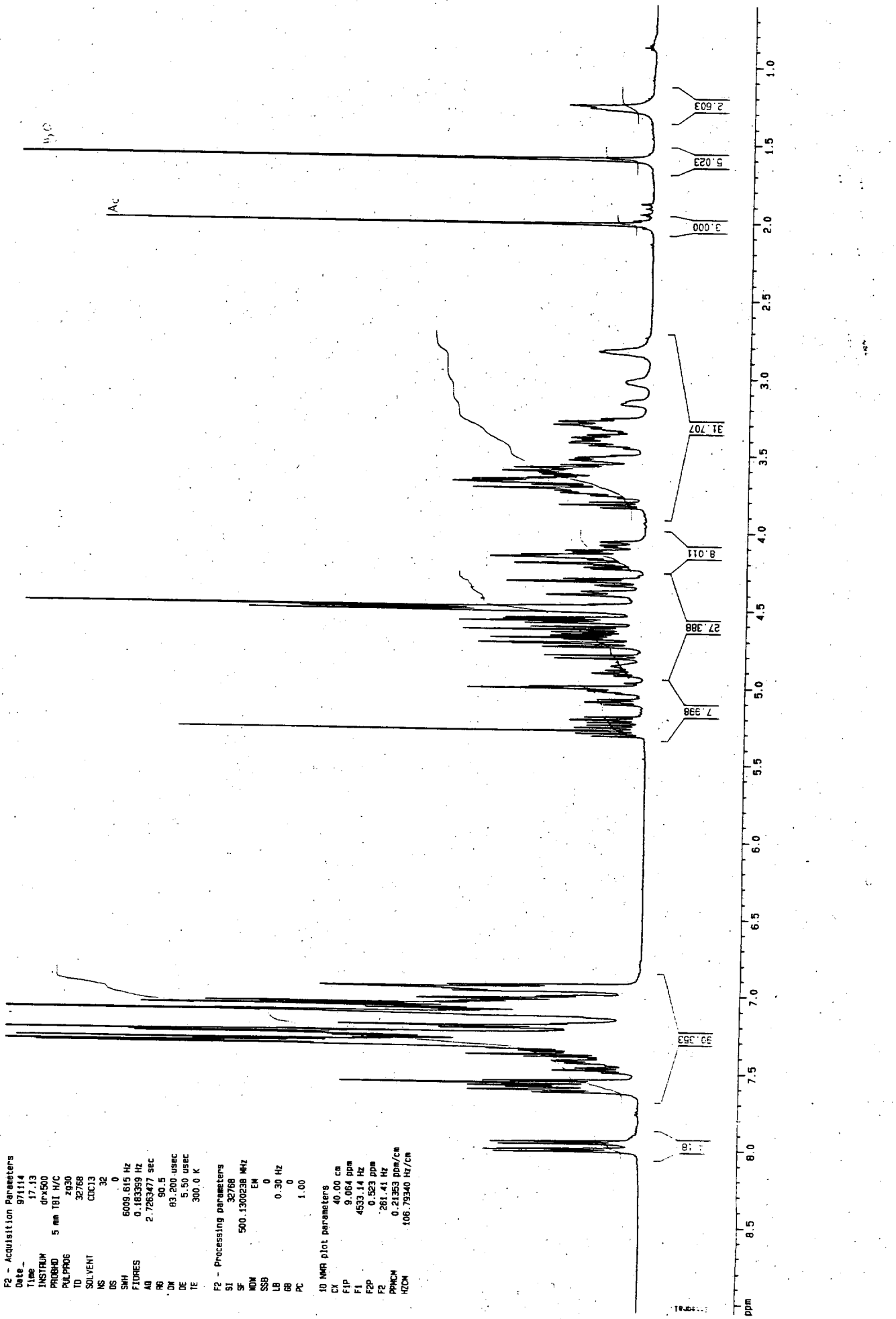
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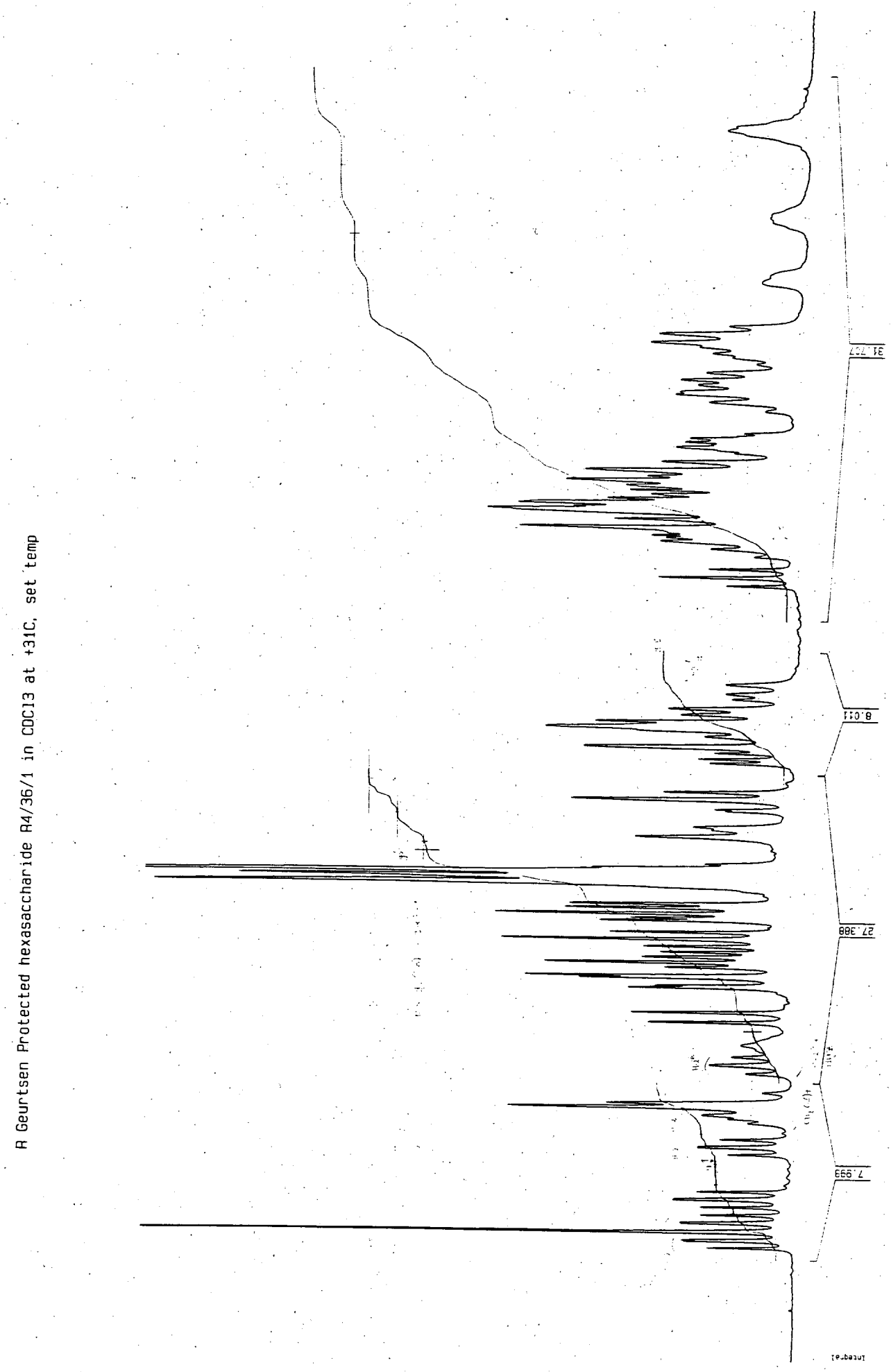
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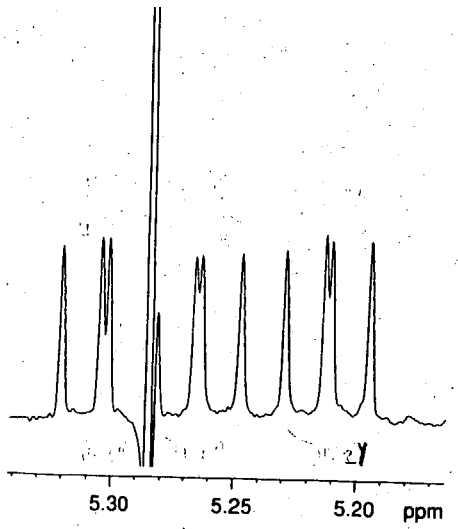


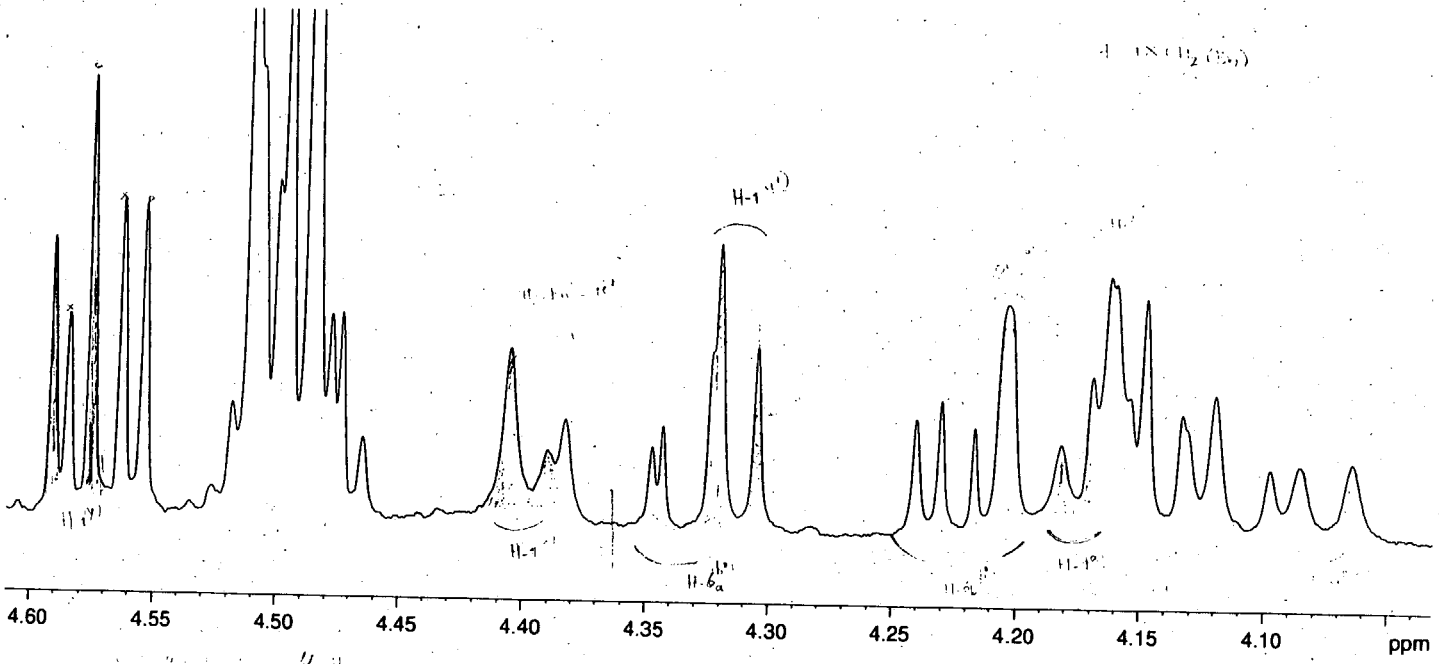
© 1999 American Chemical Society, J. Org. Chem., Geurtsen jo9908360 Supporting Info Page 104

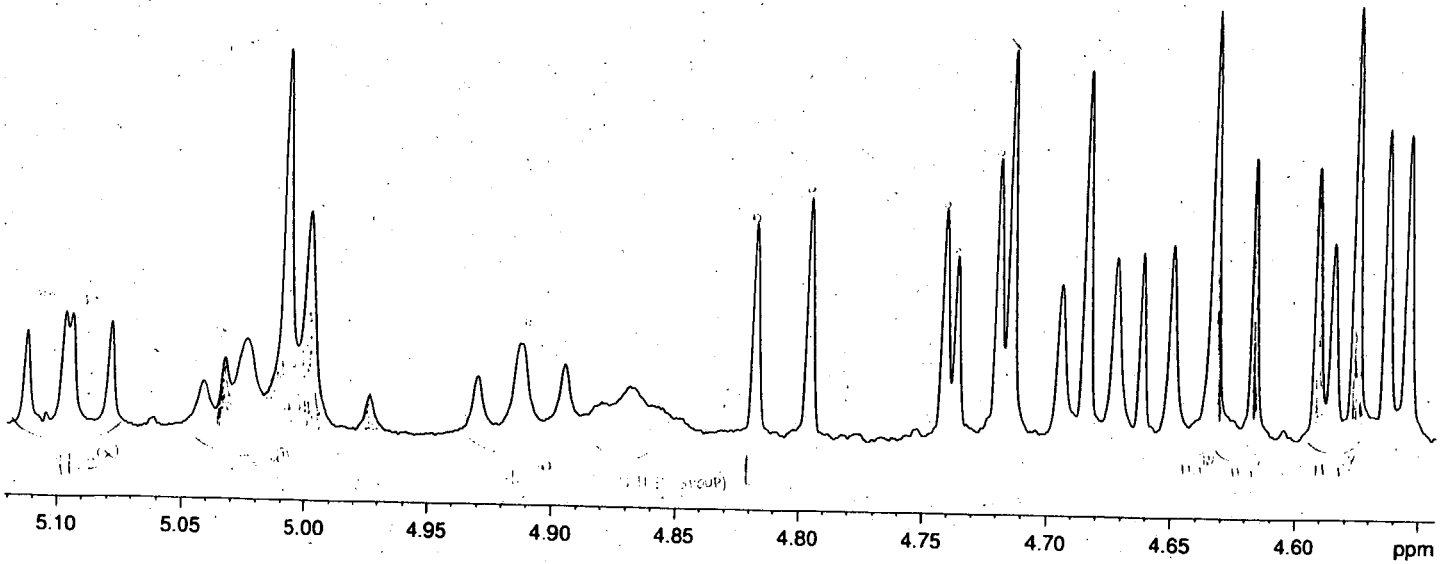
14



R Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
gb=0.28, lb=–1 Hz, 10 Hz/Cm

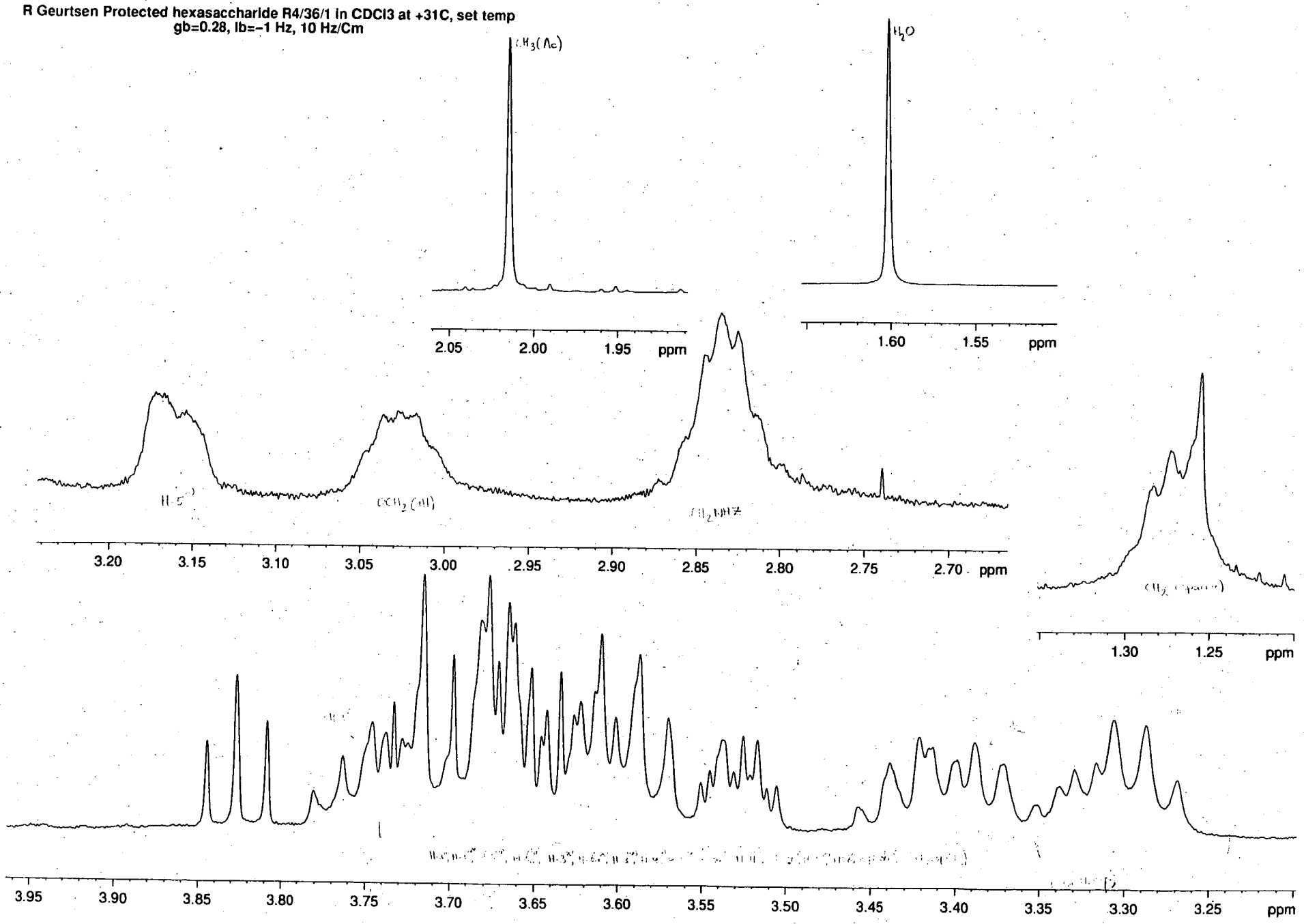




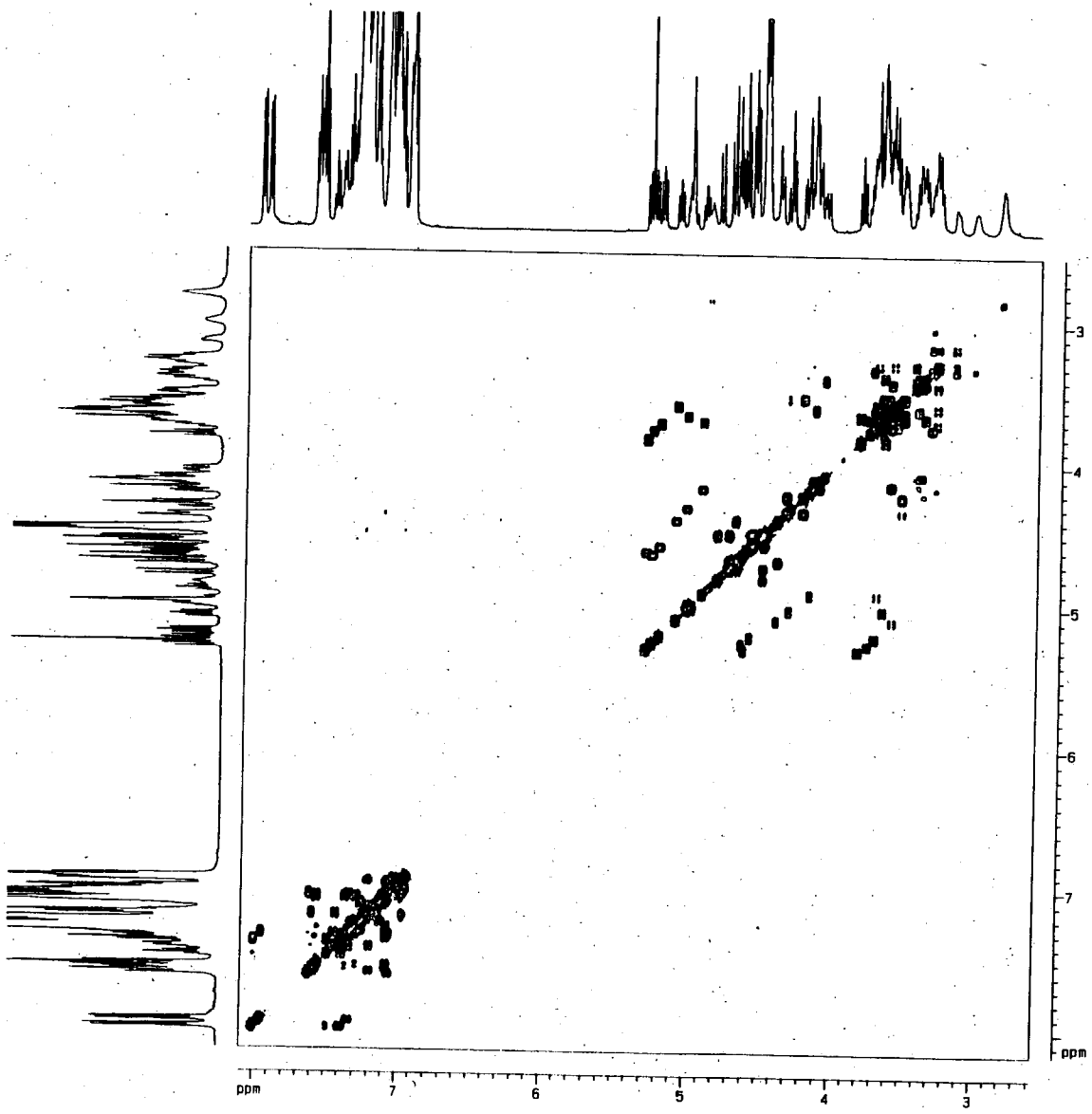


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R Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
Gradient COSY90



EXPNO	2
PROCNO	1

F2 - Acquisition Parameters

Date_	971117
Time	18.13
INSTRUM	drx500
PROBHD	5 mm TBI H/C
PULPROG	cosygp
TD	2048
SOLVENT	CDCl3
NS	16
DS	16
SWH	4464.286 Hz
FIDRES	2.179827 Hz
AQ	0.2294260 sec
RG	90.5
DW	112.000 usec
DE	5.50 usec
TE	300.0 K
d0	0.0000030 sec
d13	0.0000030 sec
D1	2.00000000 sec
P1	10.00 usec
P16	1000.00 usec
GPX1	0.00 %
GPY1	0.00 %
GPZ1	10.00 %
GPNAM1	sine.100
D16	0.00010000 sec
PO	10.00 usec
GPX2	0.00 %
GPY2	0.00 %
GPZ2	10.00 %
GPNAM2	sine.100
DE	5.50 usec
SFO1	500.1321856 MHz
NUC1	1H
PL1	0.00 dB
IN0	0.00022400 sec

F1 - Acquisition parameters

ND0	1
TD	512
SFO1	500.1322 MHz
FIDRES	8.719308 Hz
SW	8.926 ppm

F2 - Processing parameters

SI	2048
SF	500.1300238 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	0.20

F1 - Processing parameters

SI	1024
MC2	QF
SF	500.1300238 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

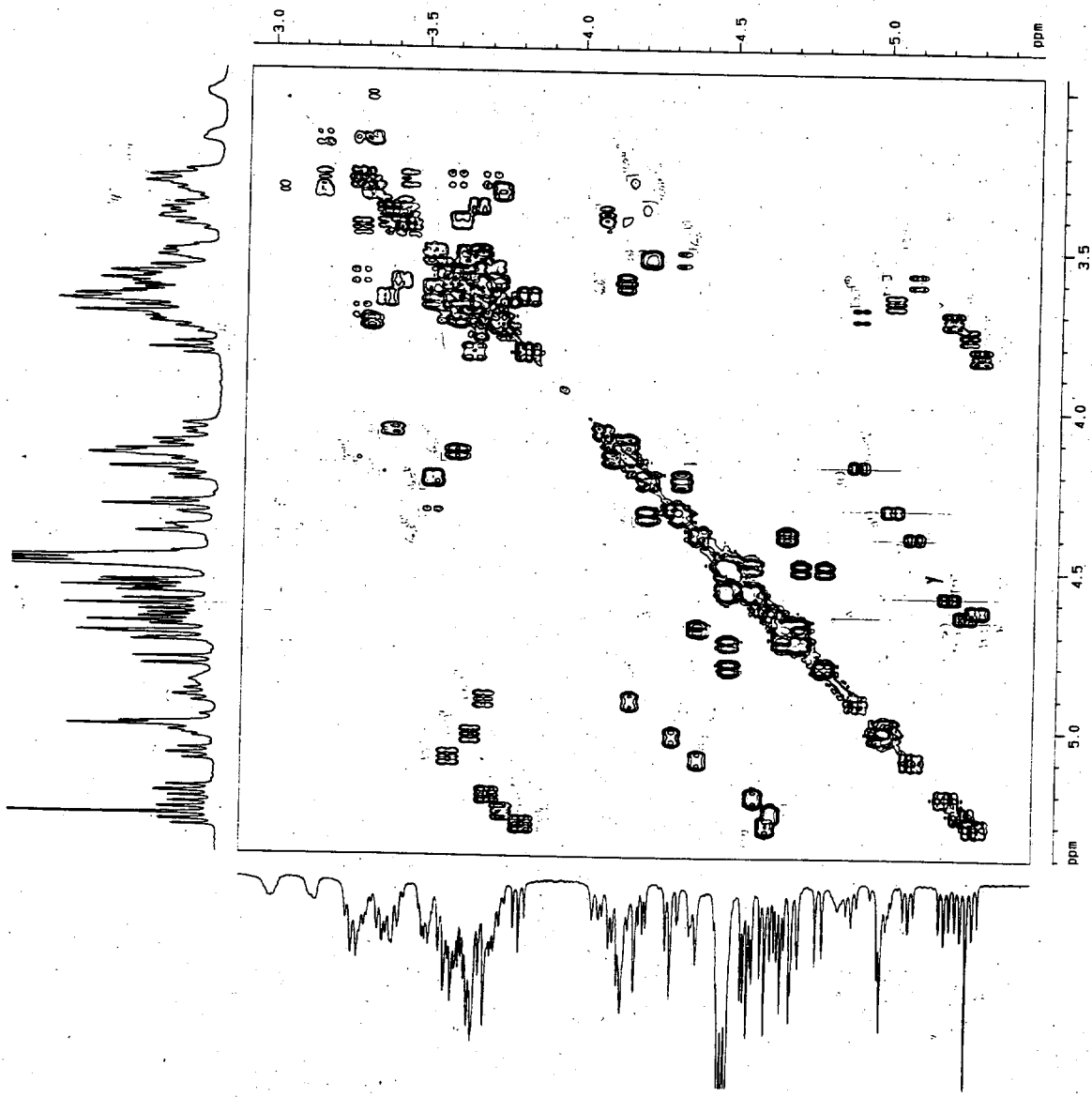
2D NMR plot parameters

CX2	17.00 cm
CX1	17.00 cm
F2PLO	8.097 ppm
F2LO	4049.53 Hz
F2PHI	2.575 ppm
F2HI	1287.69 Hz
F1PLO	8.158 ppm
F1LO	4080.05 Hz
F1PHI	2.509 ppm
F1HI	1254.99 Hz
F2PPMCM	0.32484 ppm/cm
F2HZCM	162.46123 Hz/cm
F1PPMCM	0.33227 ppm/cm
F1HZCM	166.17975 Hz/cm

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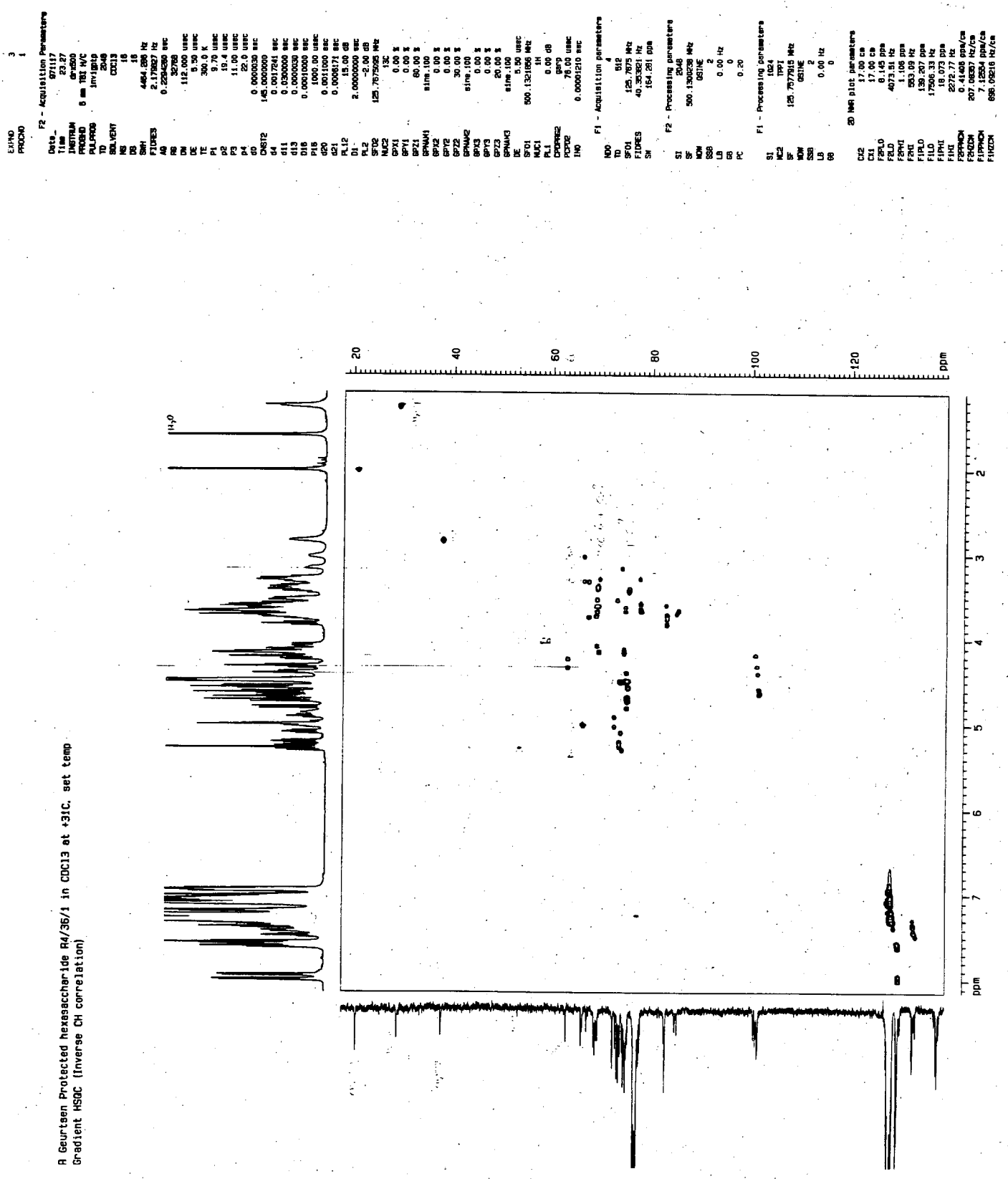
14



R Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
Gradient COSY90

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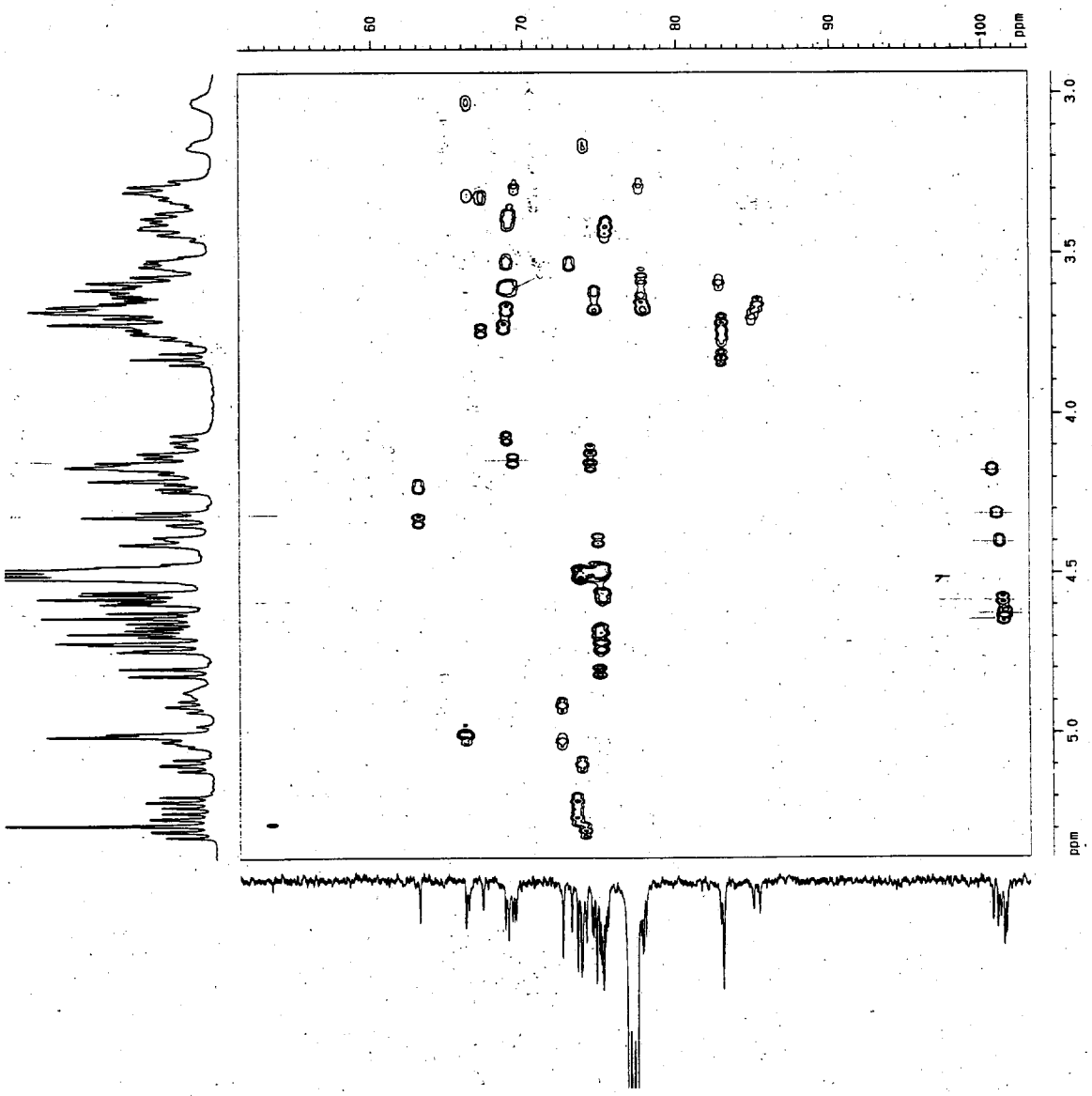
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A Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
Gradient HSQC (Inverse CH correlation)

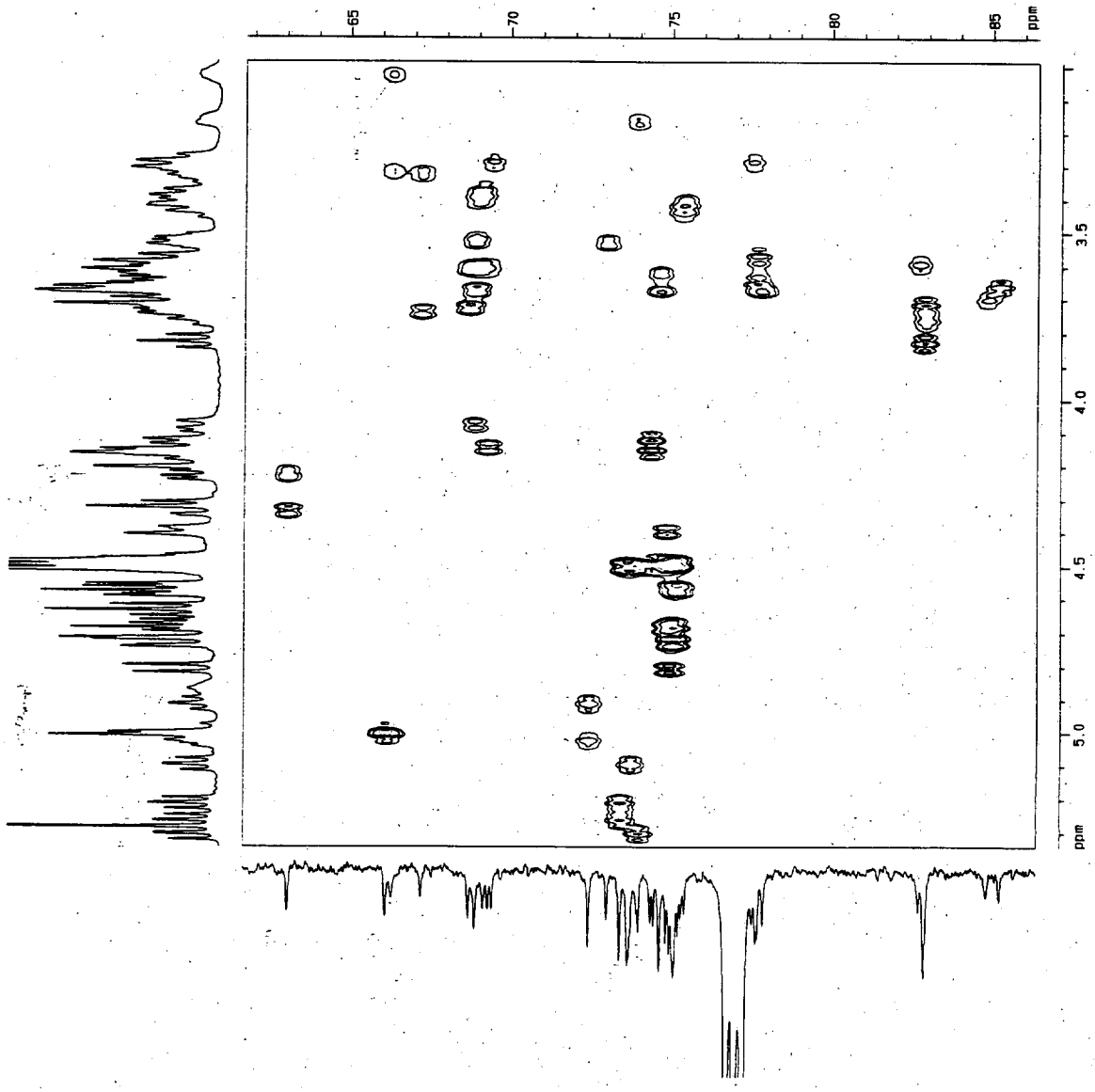
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14



R Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
Gradient HSQC (Inverse CH correlation)

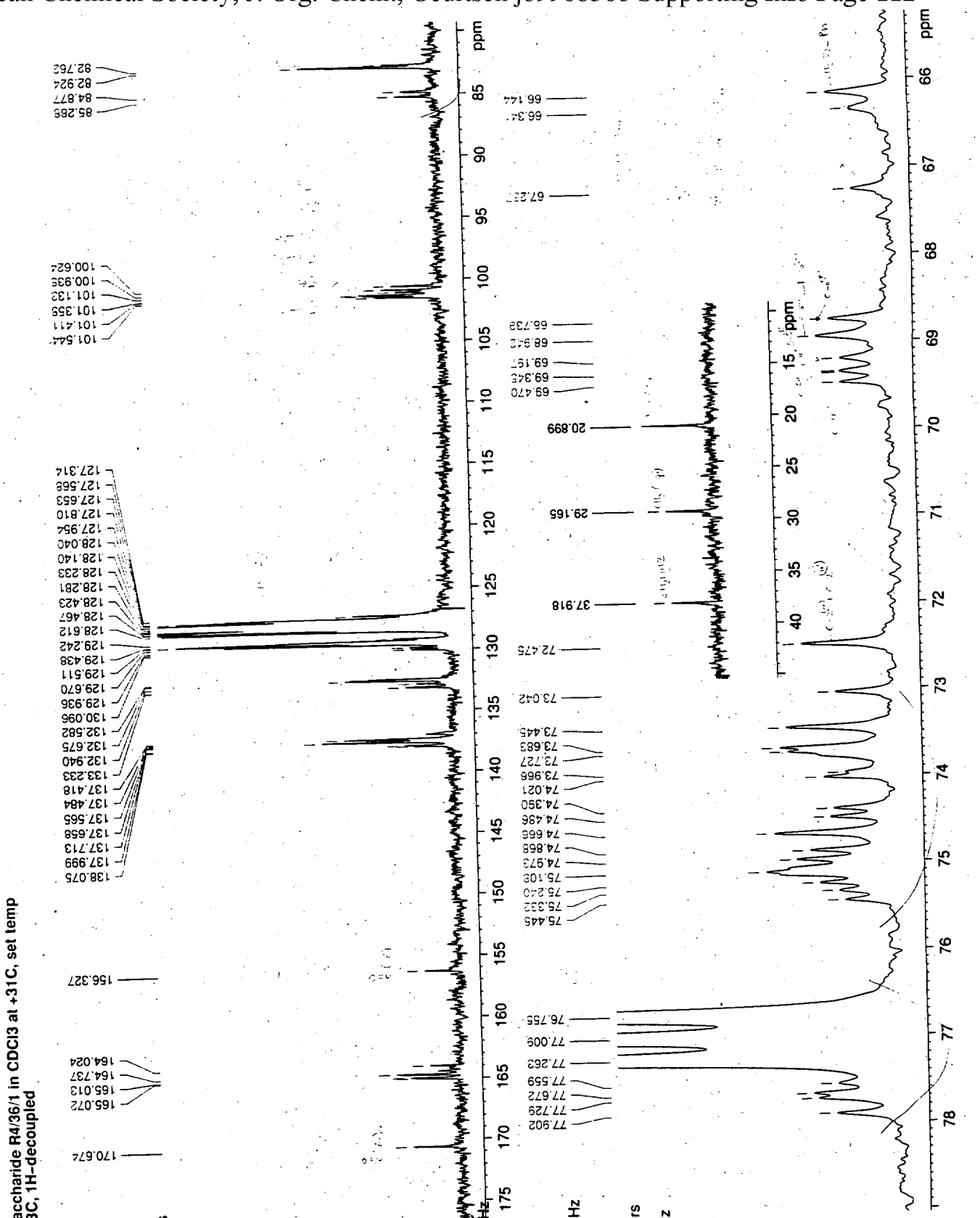
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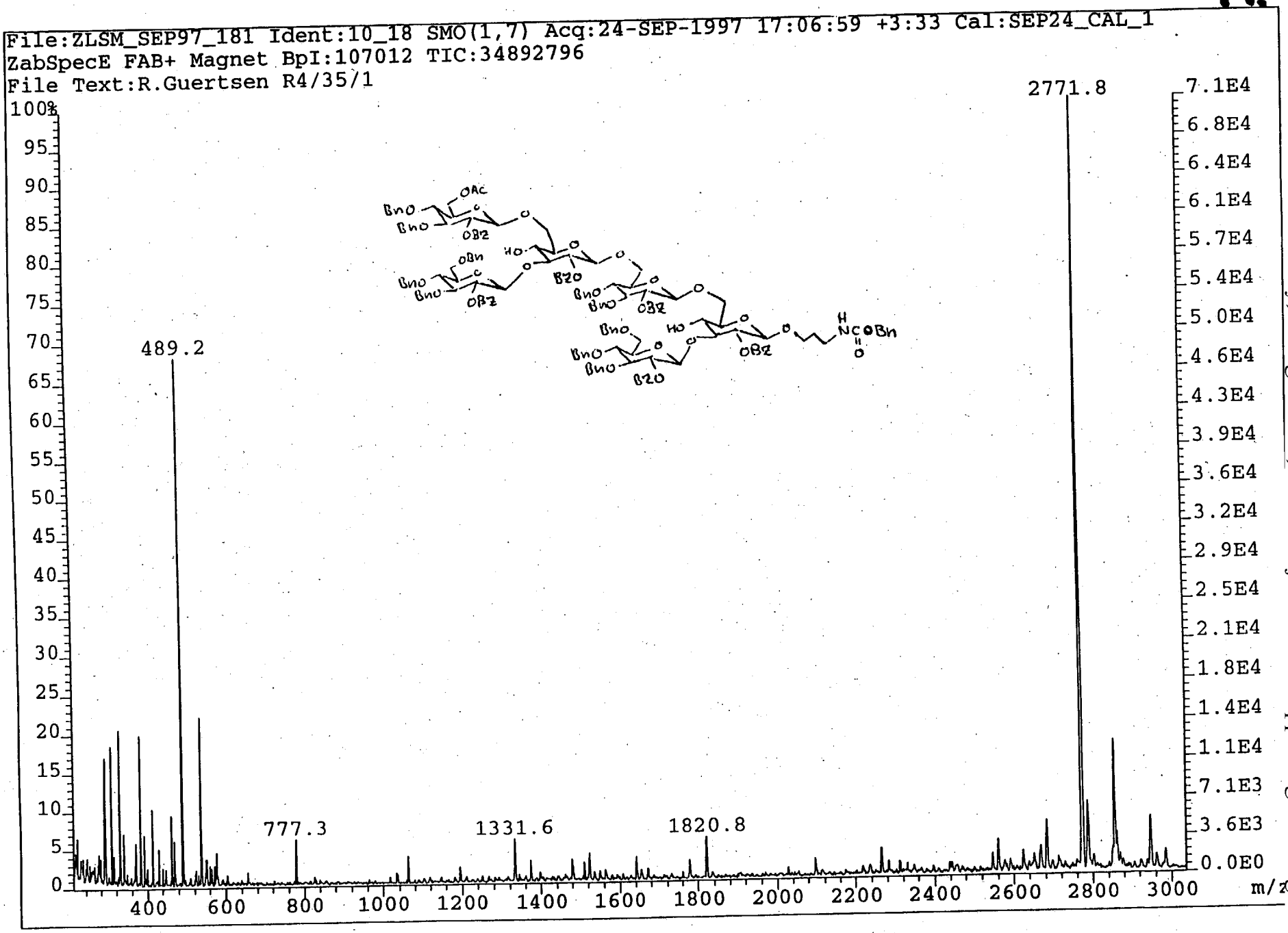
A Geurtsen Protected hexasaccharide R4/36/1 in CDCl3 at +31C, set temp
Gradient HSQC (Inverse CH correlation)

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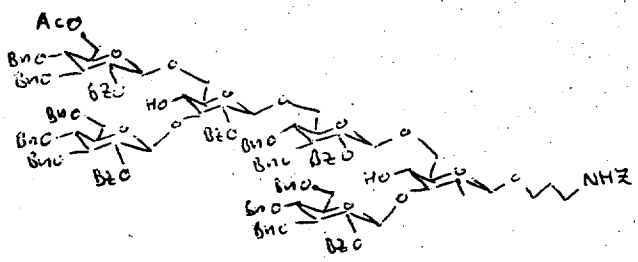
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Elemental Composition **Date : 12-JUN-1998**

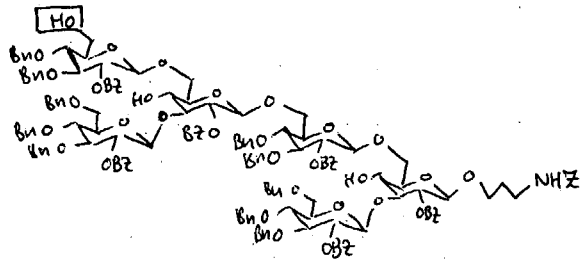
File:ZLSM_JUN98_82 Ident:37_41 SM0(5,7) PKD(7,3,7,0.00%,0.0,0.00%,F,F)
ZabSpecE FAB+ Voltage BpI:708352 TIC:78613152 Flags:NORM DEL ERR
File Text:R.Guertsen R4/36/1
Heteroatom Max: 50 Ion: Both Even and Odd
Limits:

				-0.5	160	0	161	1	40	1
2771.047304	10.0			90.0	161	1	161	1	40	1

Mass	mDa	PPM	Calc. Mass	DBE	C	13C	H	N	O	Na
2771.047304	2.0	0.7	2771.049261	81.5	161		161	1	40	1



15.



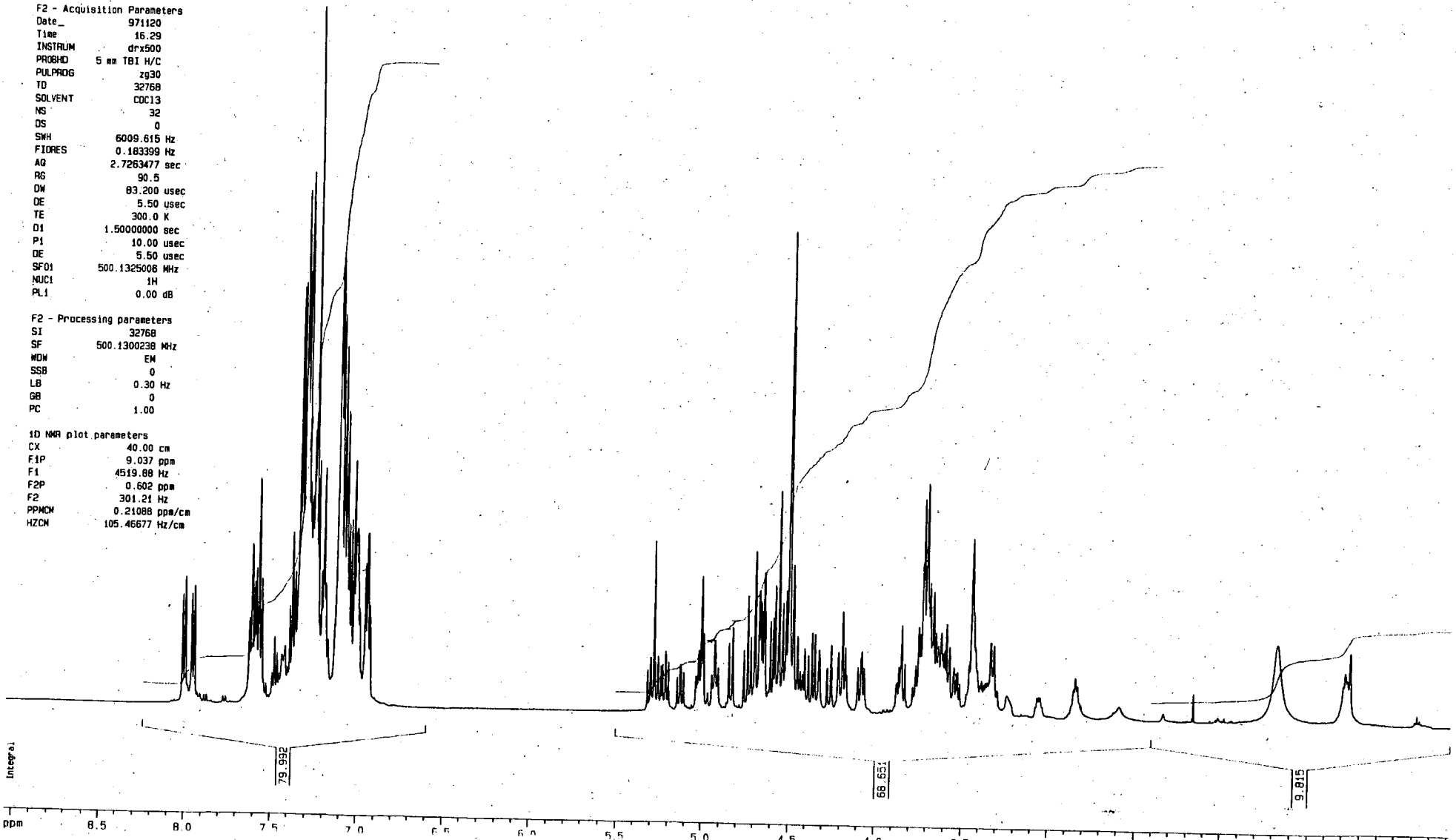
A Geurtsen R4/47/1 Hexasaccharide in CDCl3 at +31C, set temp

Current Data Parameters
NAME nv20rg1d
EXPNO 1
PROCNO 1

F2 - Acquisition Parameters
Date_ 971120
Time 16.29
INSTRUM drx500
PROBHD 5 mm TBI H/C
PULPROG zg30
TD 32768
SOLVENT CDCl3
NS 32
DS 0
SWH 6009.615 Hz
FIDRES 0.183399 Hz
AQ 2.7263477 sec
RG 90.5
DW 83.200 usec
DE 5.50 usec
TE 300.0 K
D1 1.50000000 sec
P1 10.00 usec
DE 5.50 usec
SFO1 500.1325006 MHz
NUC1 1H
PL1 0.00 dB

F2 - Processing parameters
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WDW EM
SSB 0
LB 0.30 Hz
GB 0
PC 1.00

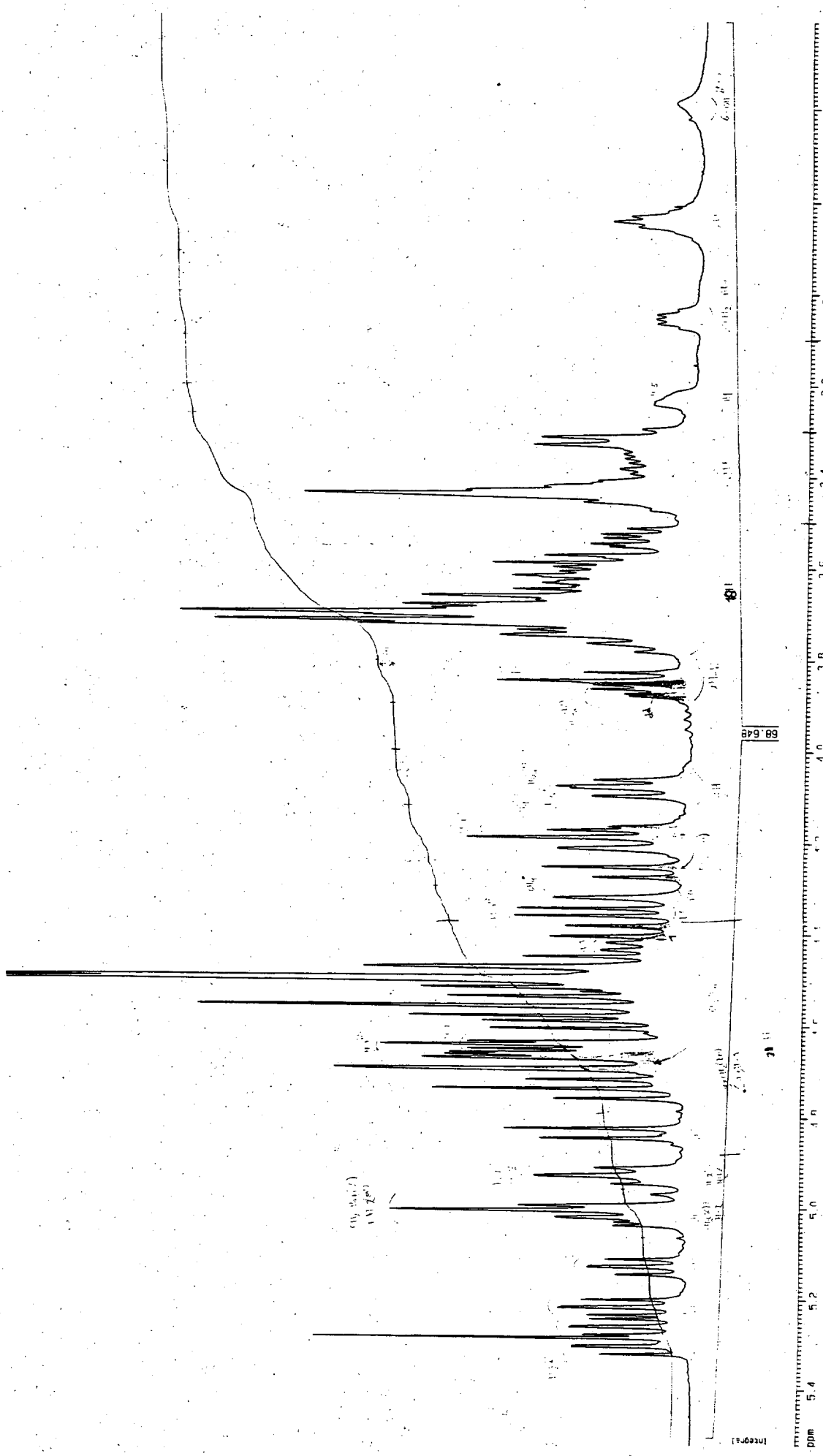
1D NMR plot parameters
CX 40.00 cm
F1P 9.037 ppm
F1 4519.88 Hz
F2P 0.602 ppm
F2 301.21 Hz
PPMCM 0.21088 ppm/cm
HZCM 105.46677 Hz/cm



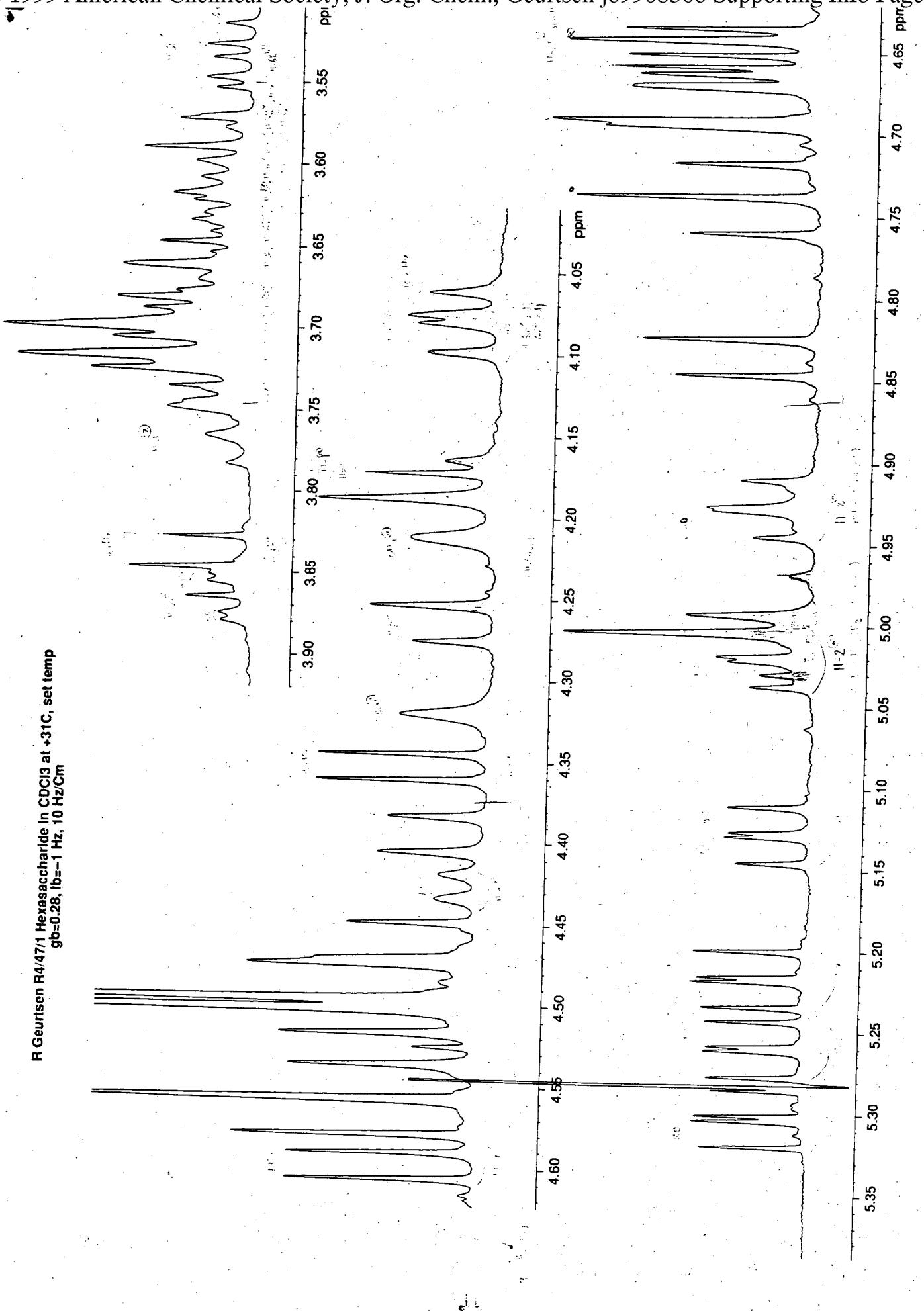
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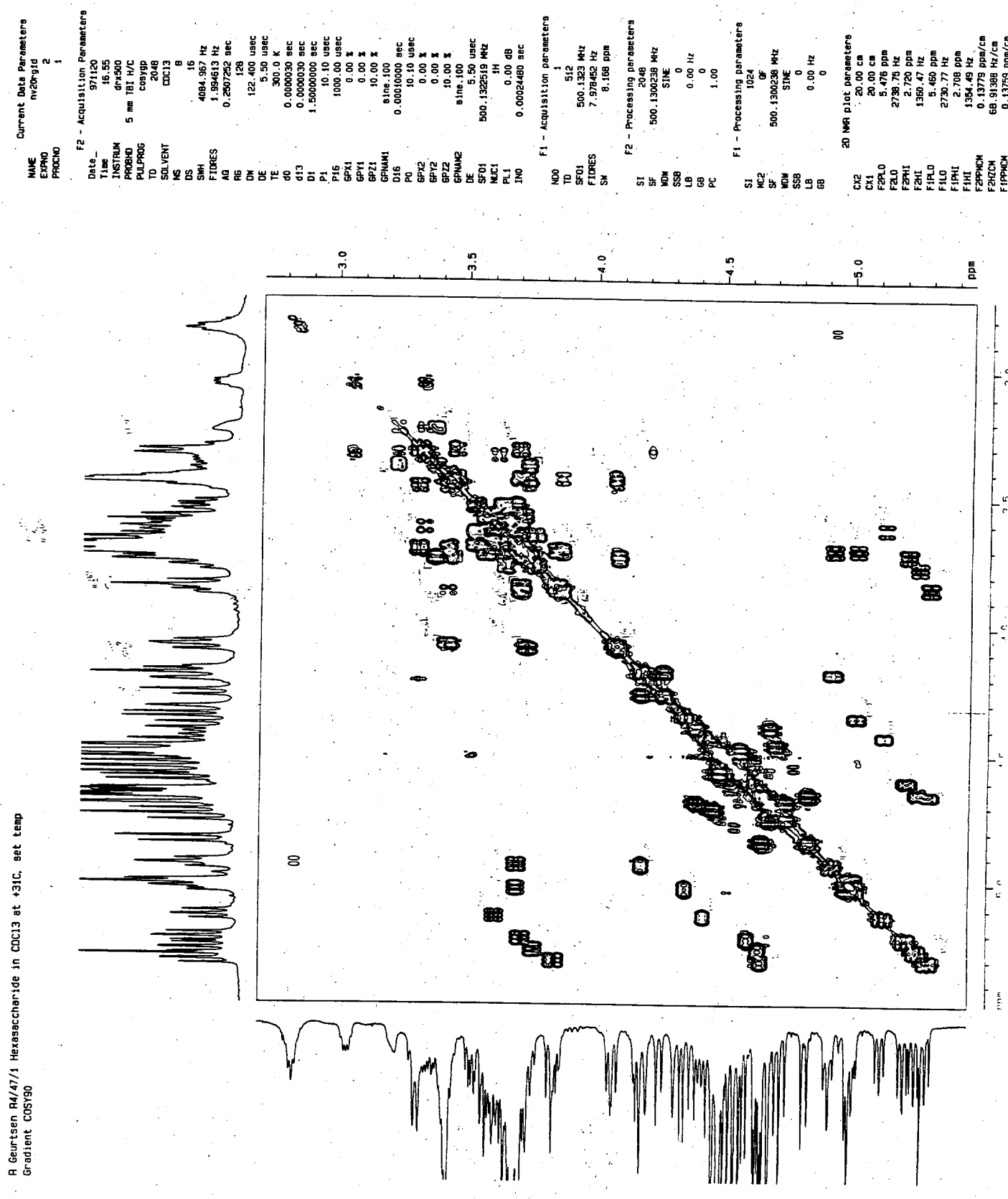


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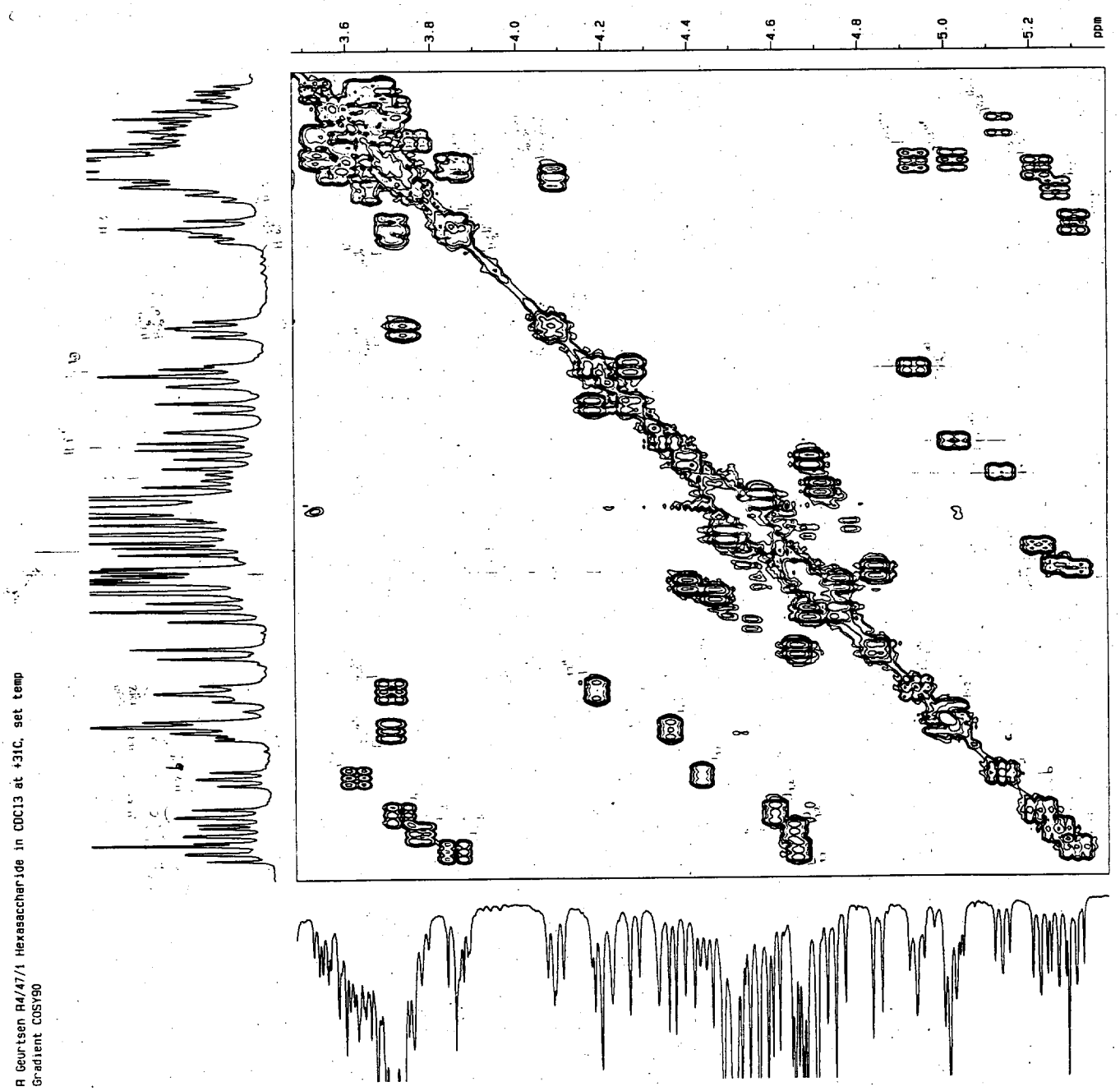
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