Supporting Information for:

Total Synthesis and Biological Evaluation of Ipomoeassin F and Its Unnatural *11R*-Epimer

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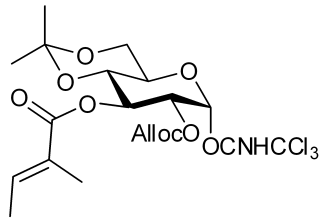
ZGH-Ipom-1-165-A-131010 1H in CDCL3

8.649 7.271 7.269 6.891 6.877 6.873 6.859 6.856 6.578 6.568 5.884 5.882 5.870 5.857 5.855 5.841 5.827 5.814 5.813 5.635 5.611 5.587 5.309 5.306 5.265 5.263 5.236 5.234 5.231 5.210 5.207 5.050 5.048 5.040 5.025 5.024 5.016 5.014 4.594 4.580 4.017 4.005 3.993 3.980 3.970 3.965 3.953 3.941 3.877 3.853 3.829 3.802 3.797 3.773 3.747 1.834 1.832 1.815 1.797 1.584 1.486 1.425 1.405



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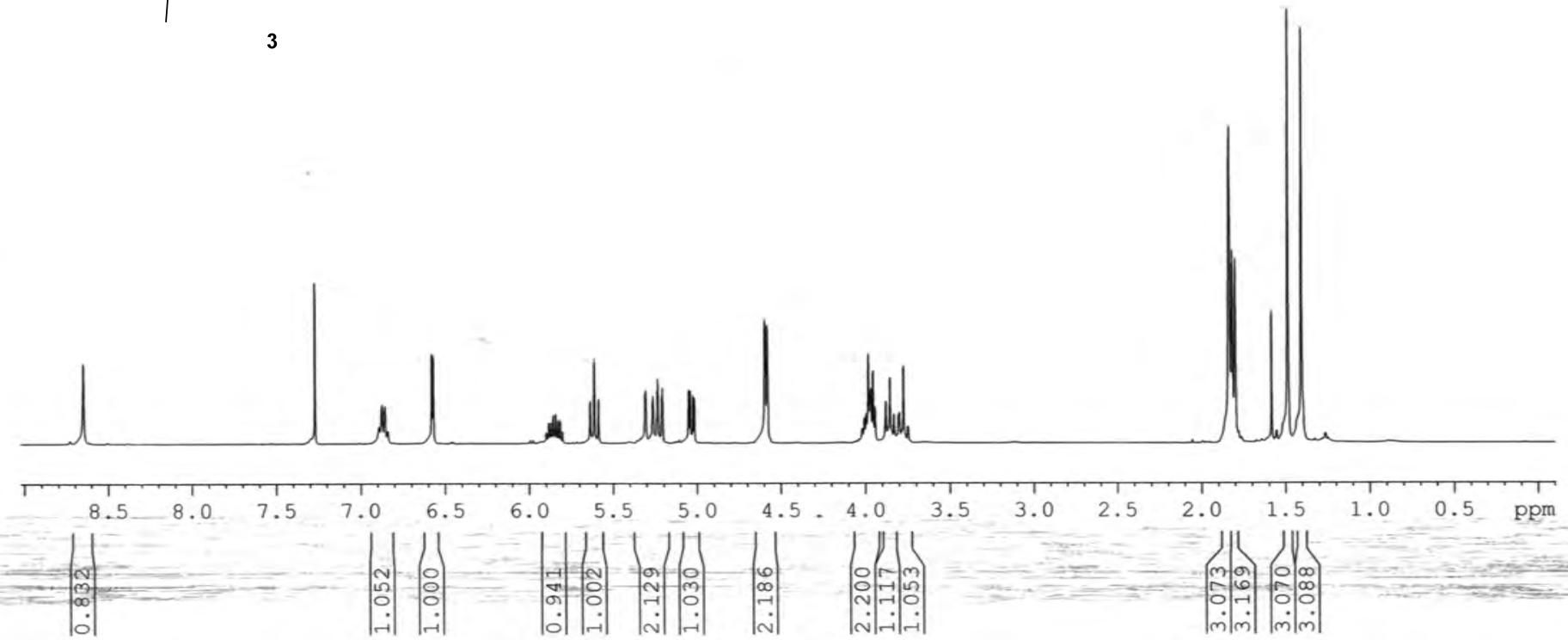
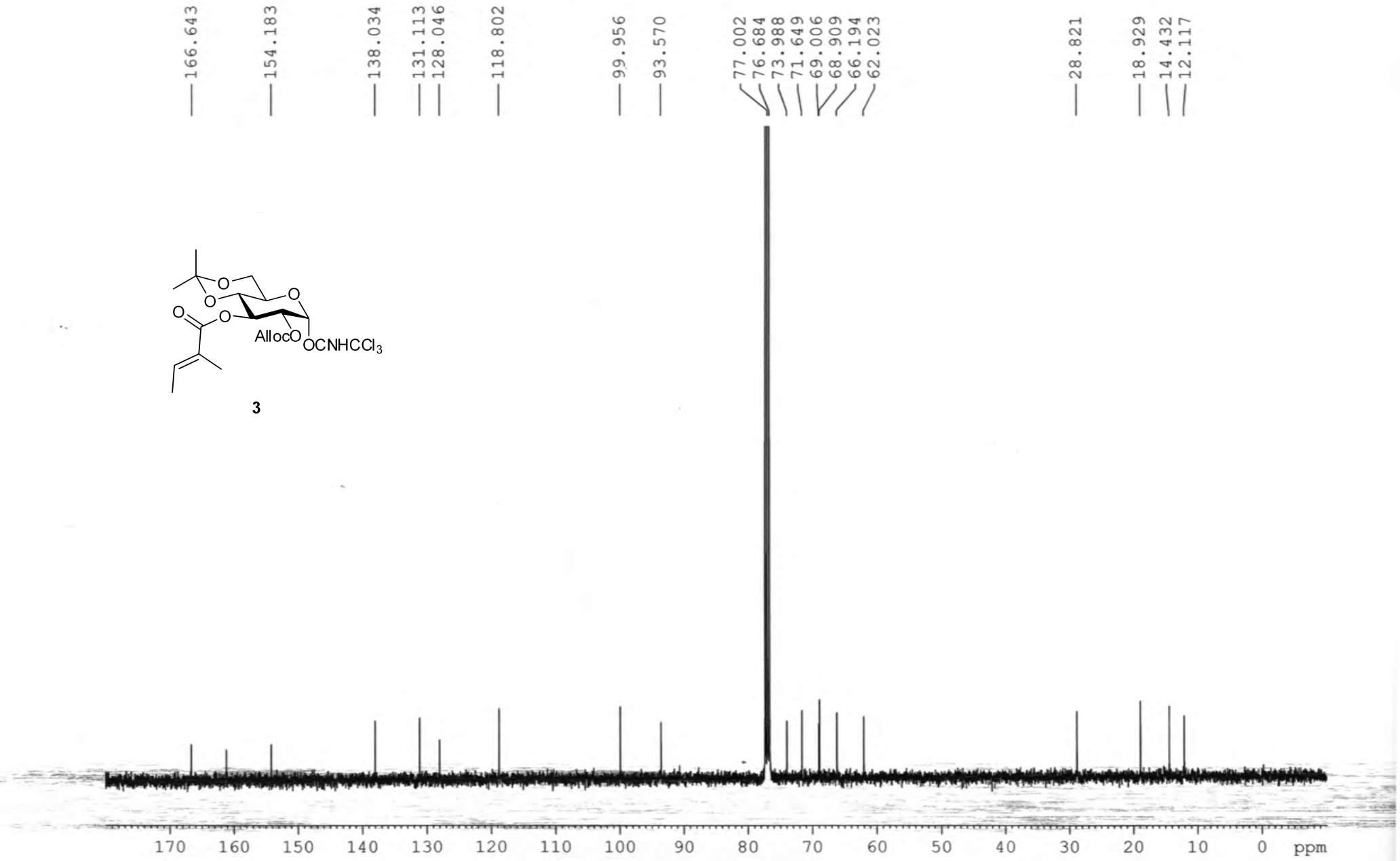


ZGH-Ipom-1-165-A-131010 13C in CDCl3



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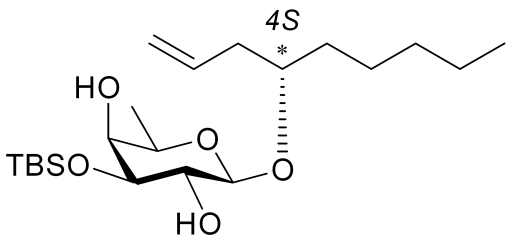

6a

ZGH-Ipom-2-16-A 13C in CDCl3

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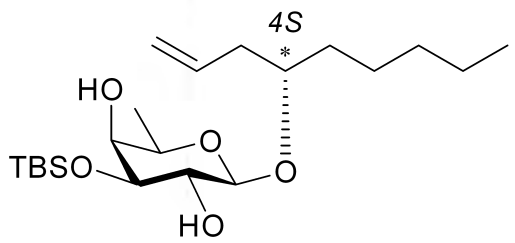
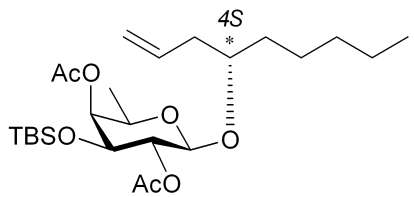
102.244
78.881
77.318
77.204
77.001
76.683
74.864
72.145
72.077
69.999
38.534
34.724
31.804
25.741
24.728
22.558
18.096
16.369
14.079
-4.430
-4.975



6a

ZGH-Ipom-2-22-A 1H in CDCL3



24

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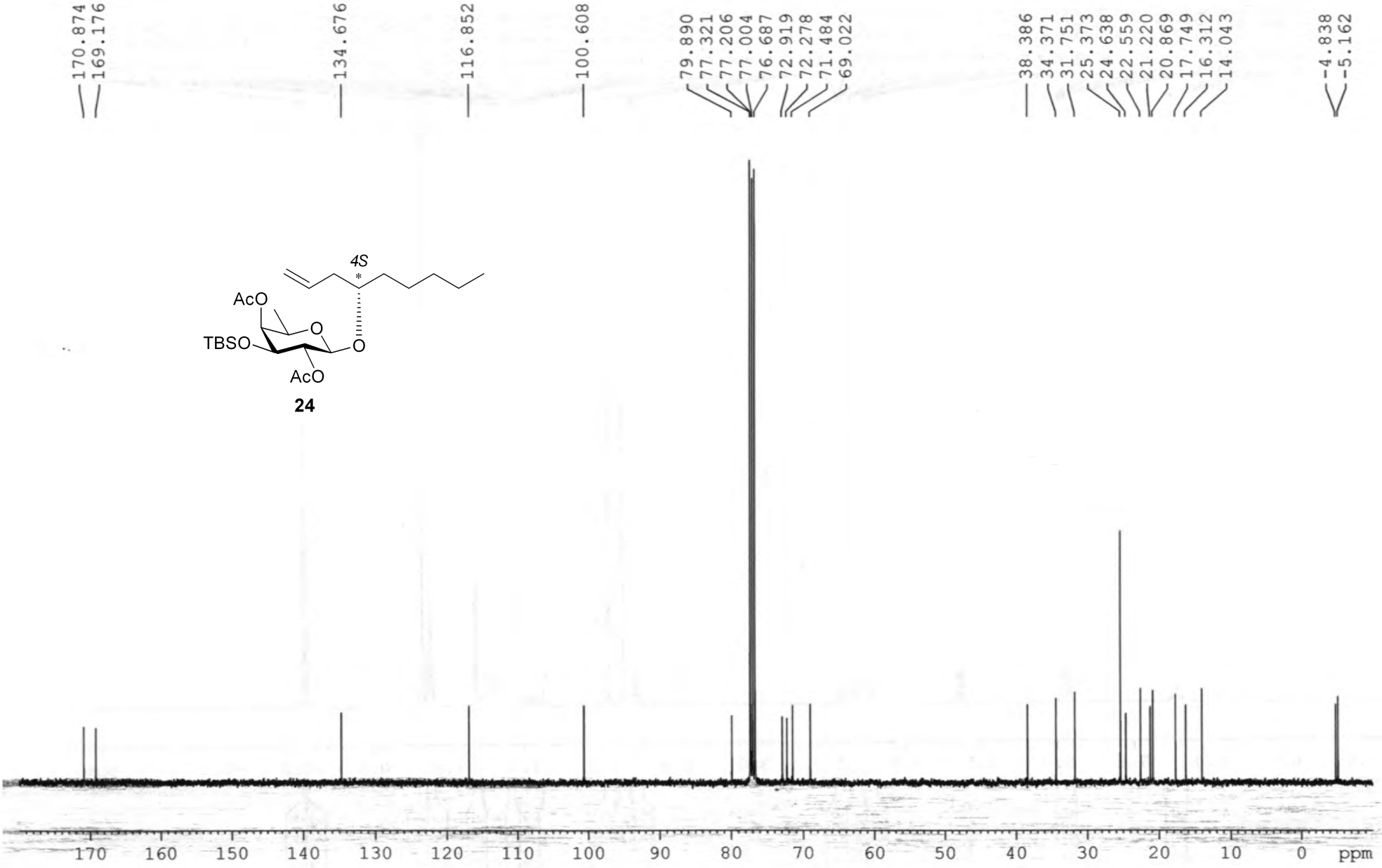

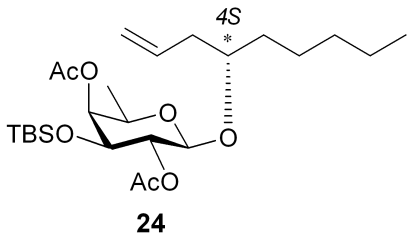

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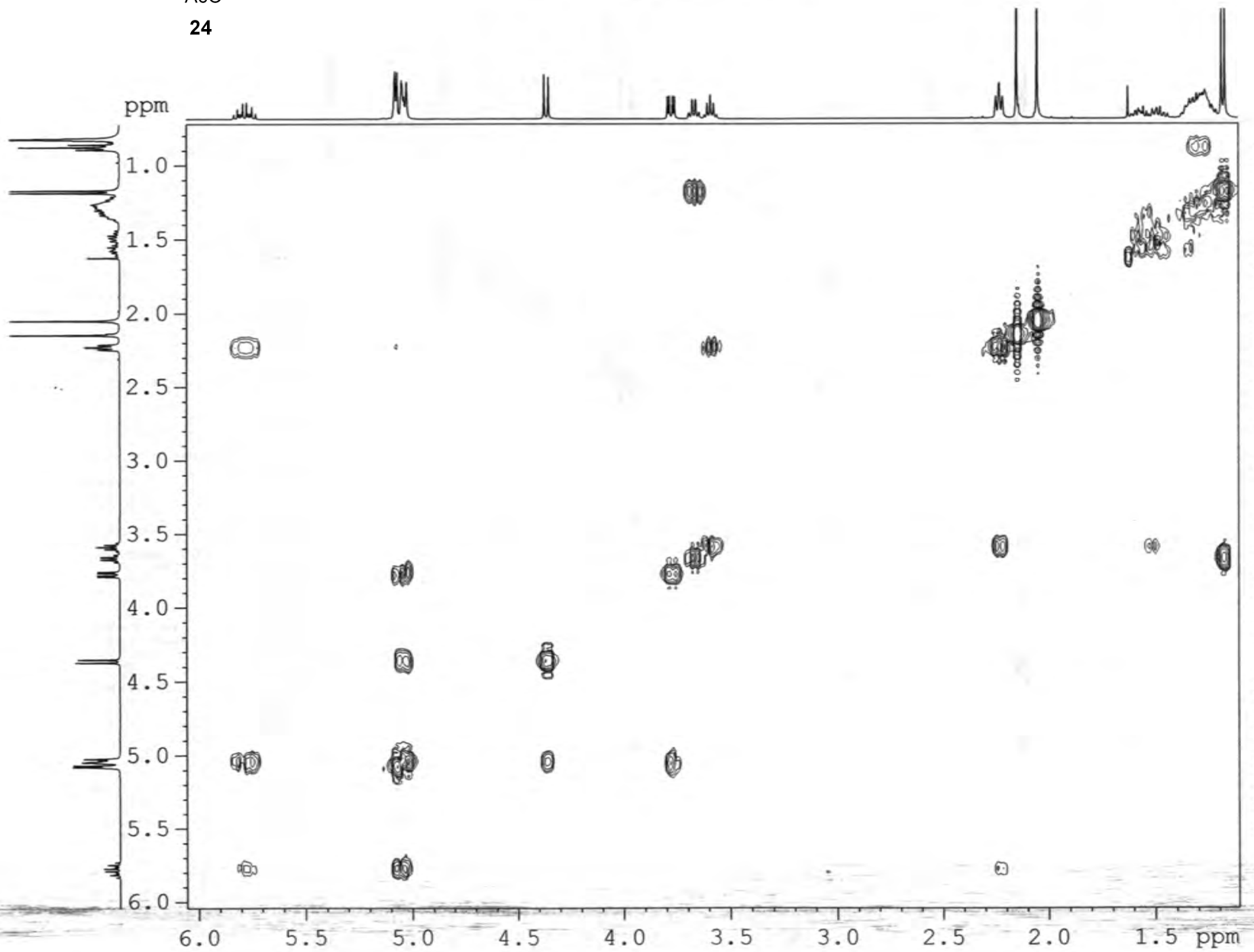
ZGH-Ipom-2-22-A COSY



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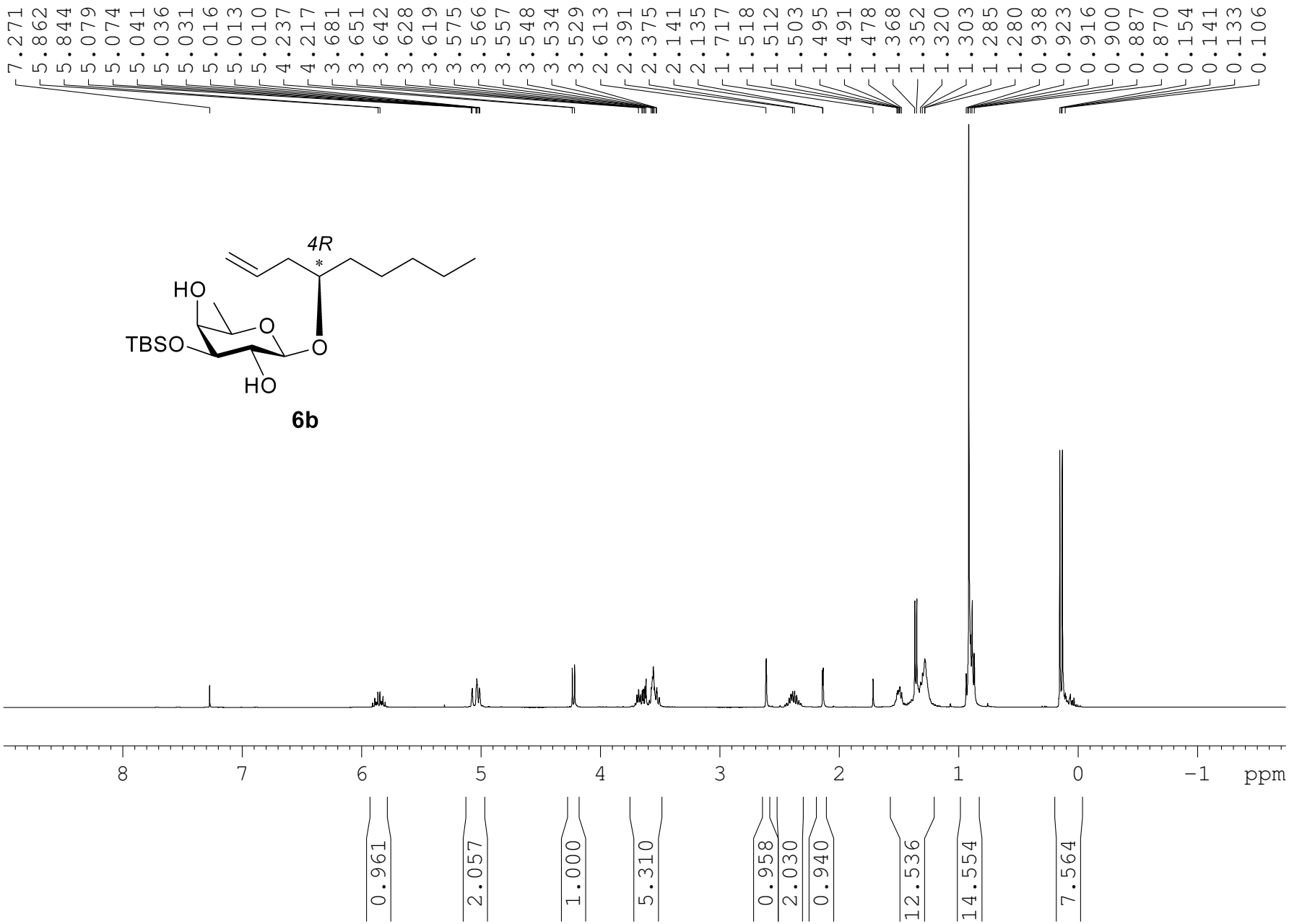
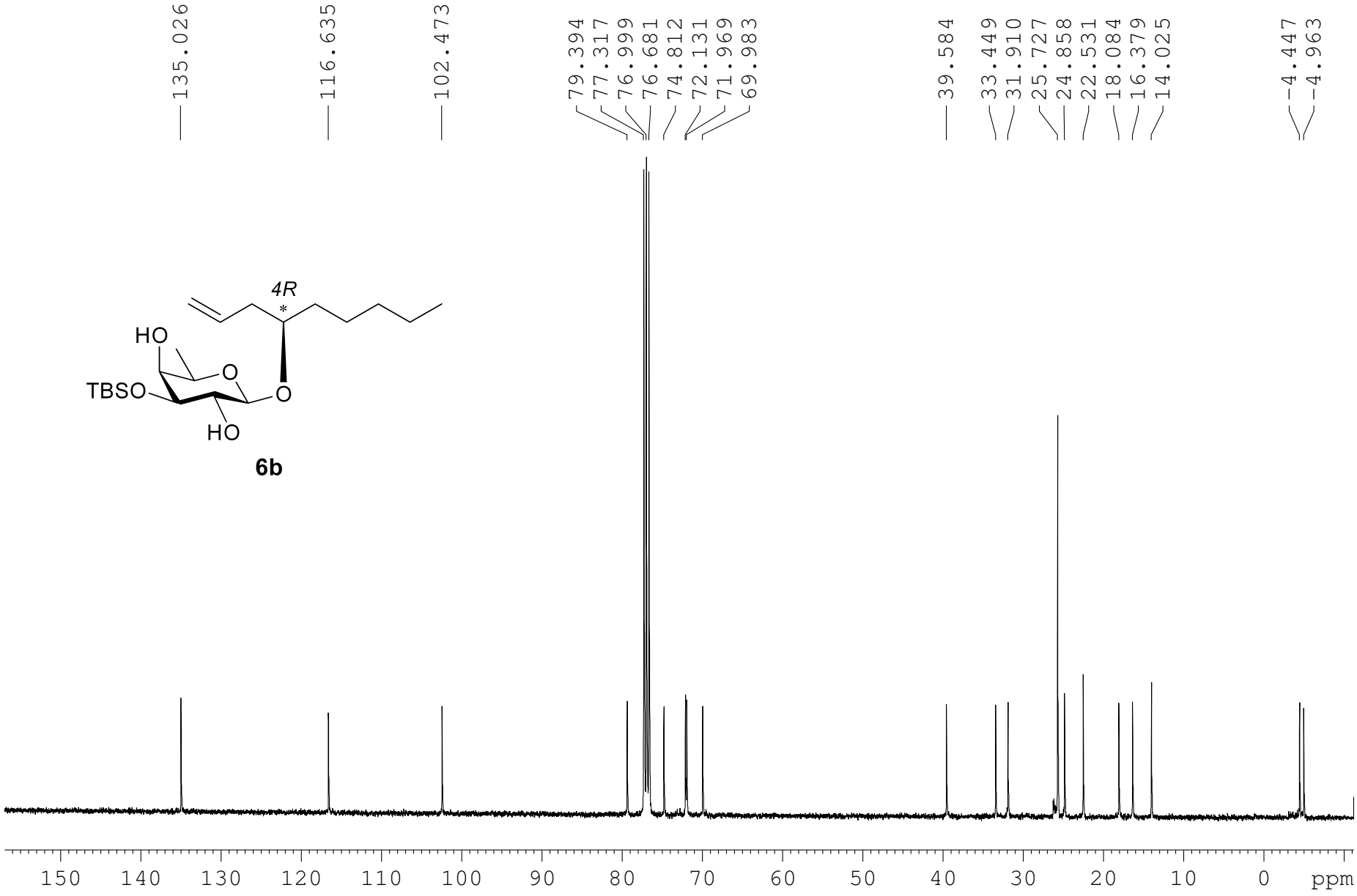
EXPNO	2
PROCNO	1
Date_	20150323
Time	12.35
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	114
DW	93.600 usec
DE	6.50 usec
TE	292.8 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

EDB-Ipom-1-103-A-150518 in CDCL3



EDB-Ipom-1-103-A-150518 13C in CDCl3



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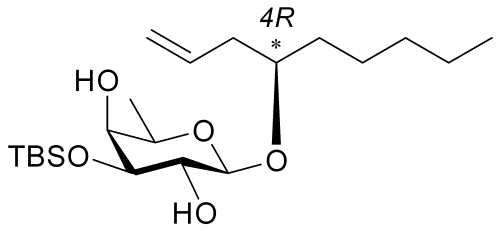

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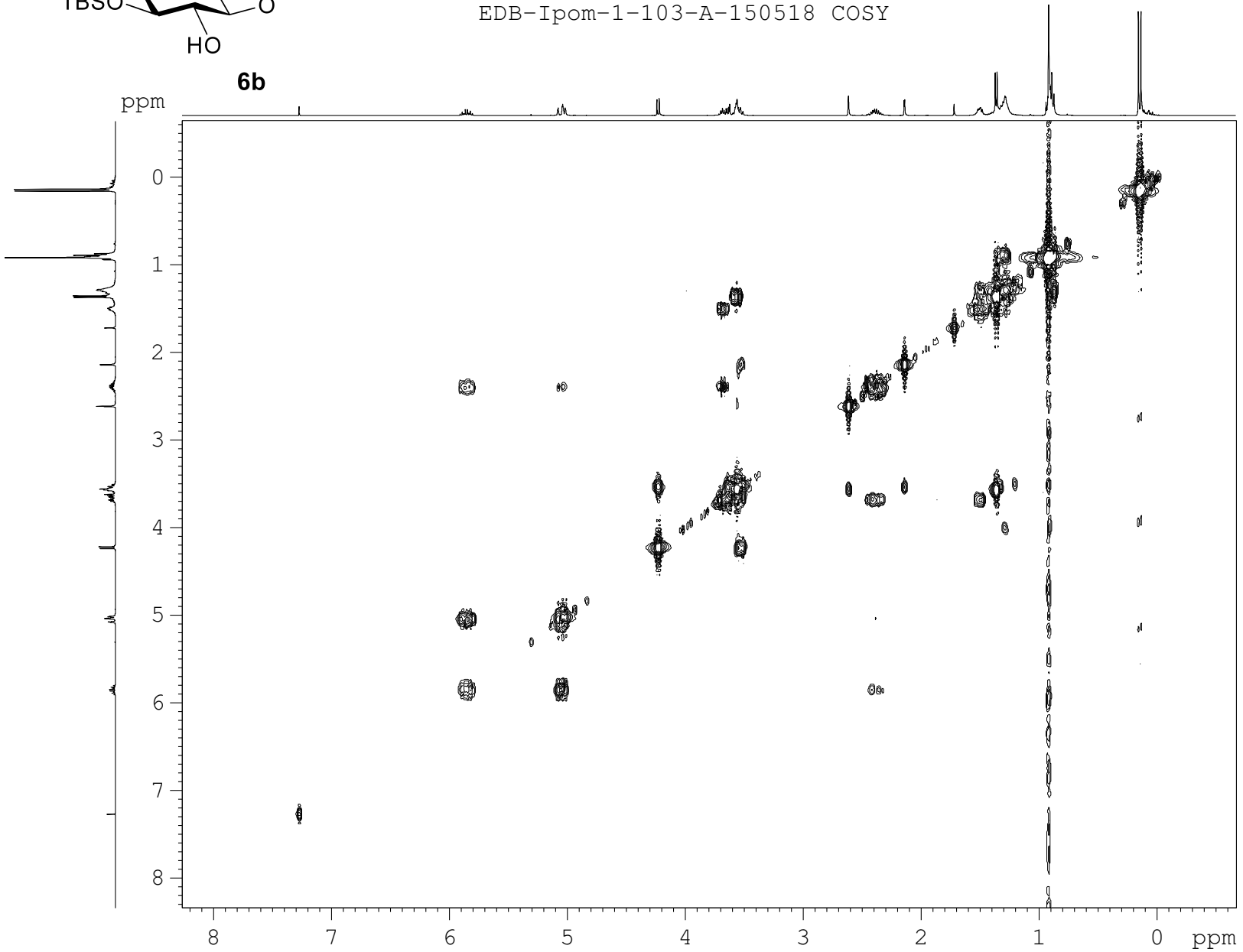

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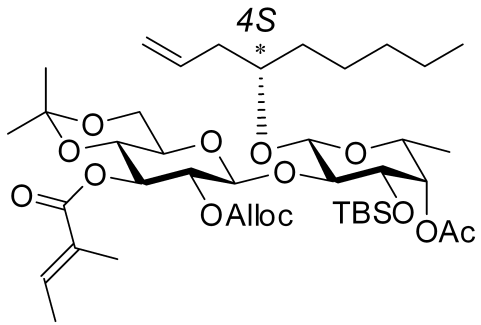
PROCNO	1
Date_	20150615
Time	21.24
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	80.6
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

ZGH-Ipom-2-25-A 1H in CDCL3



7a

ZGH-Ipom-2-25-A 13C in CDCl3

170.781
166.840
154.198
137.904
135.639
131.407
128.022
118.293
116.190
101.342
99.609
99.543
80.505
77.318
77.202
77.112
77.000
76.682
75.501
73.445
73.416
72.252
71.786
68.855
68.365
67.253
62.197
38.407
34.279
31.838
28.894
25.802
24.608
22.616
20.933
18.847
17.713
16.525
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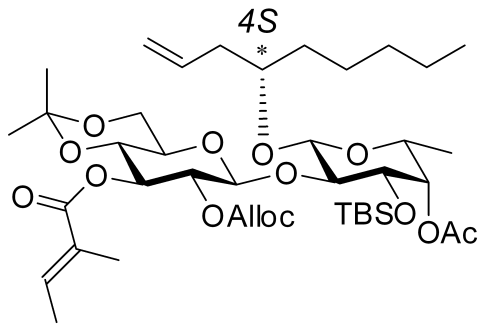
14.046
12.054
-4.293
-4.896



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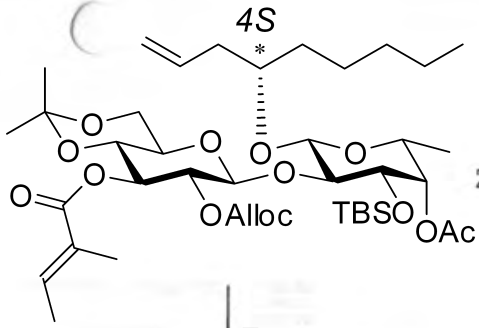
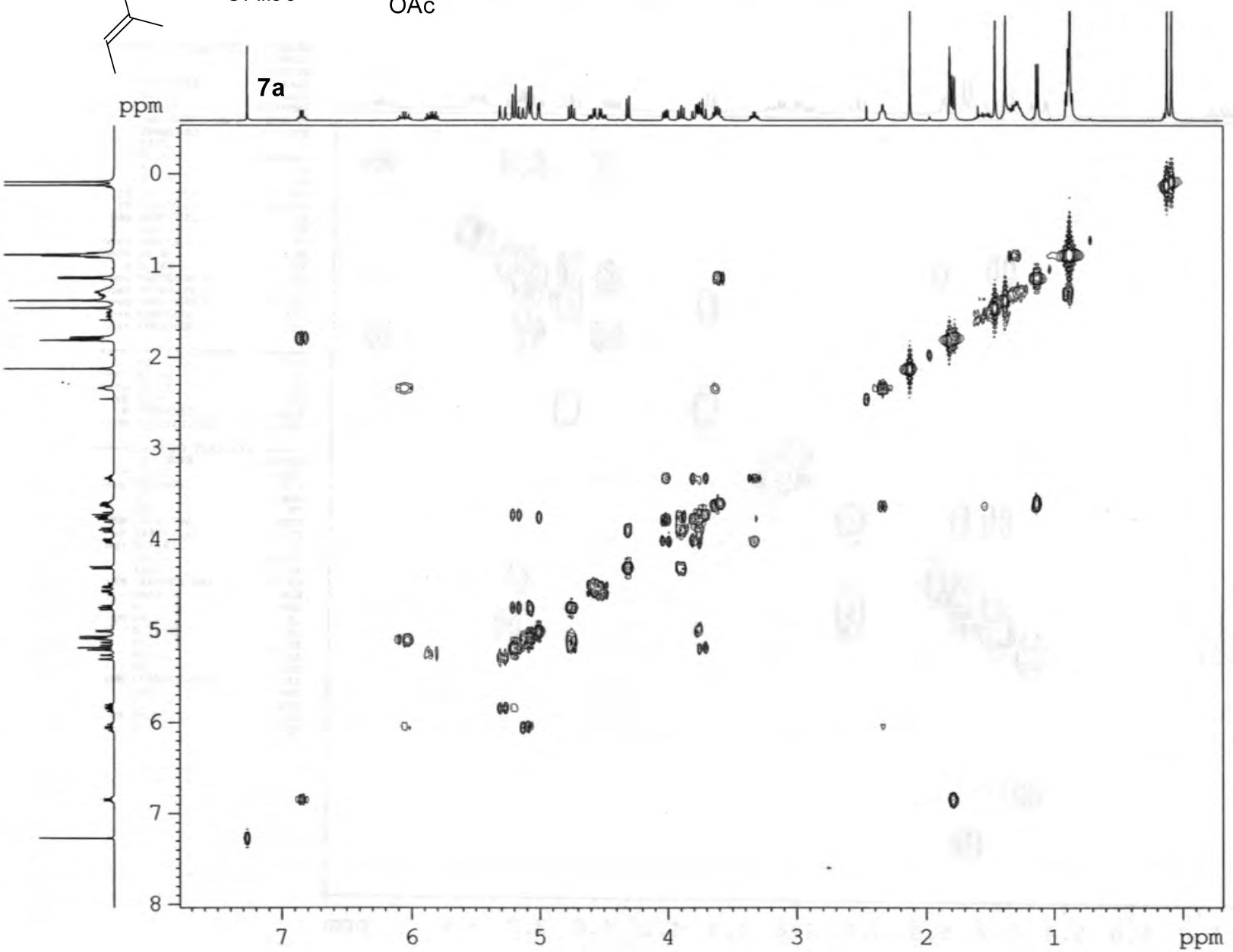


ZGH-Ipom-2-25-A-150106 COSY

7a



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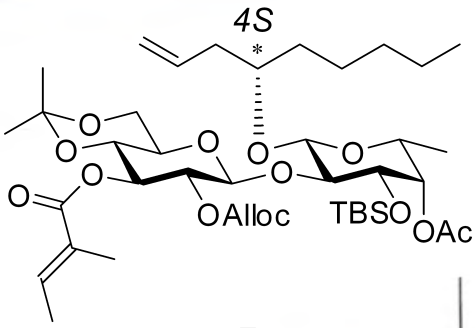
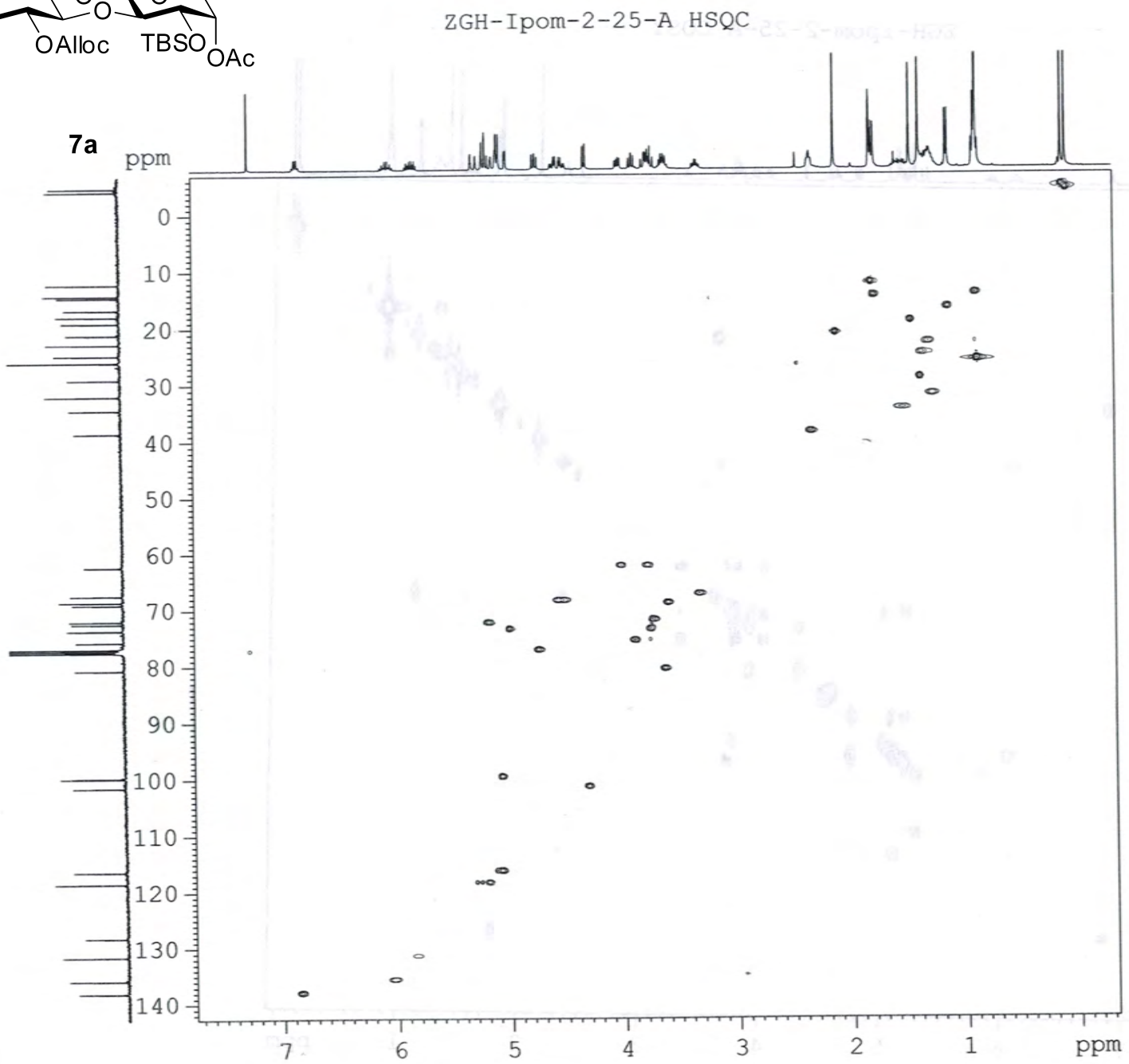
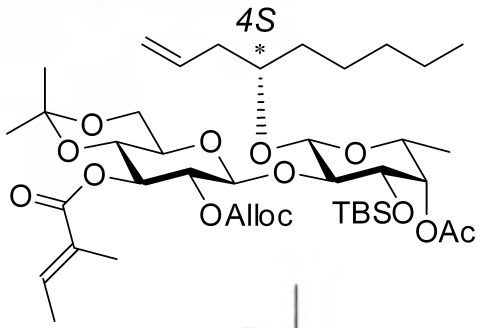
EXPNO	2
PROCNO	1
Date_	20150107
Time	21.12
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	161
DW	93.600 usec
DE	6.50 usec
TE	292.2 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0


4S
*
OAlloc
TBSO
OAc

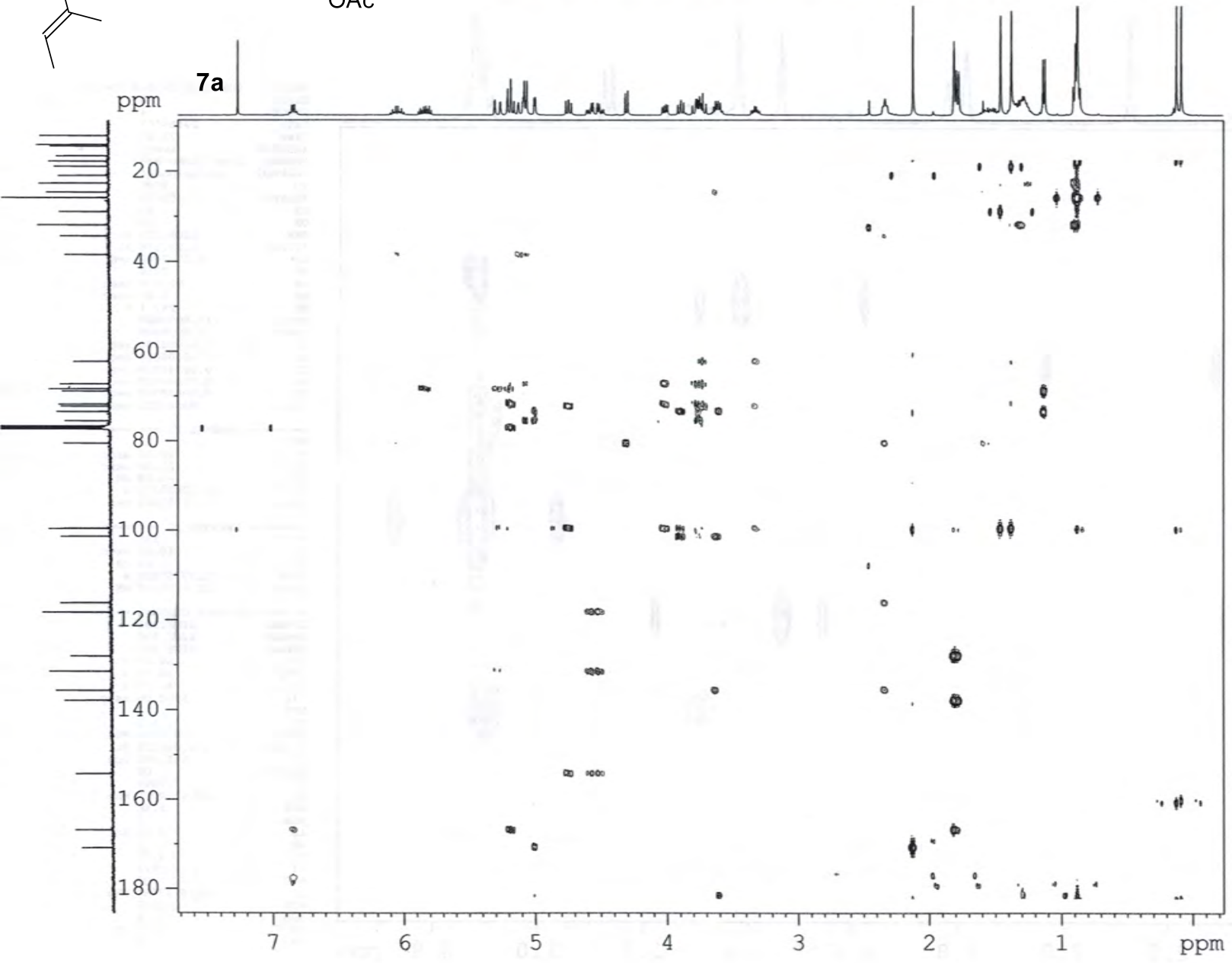
7a


ZGH-Ipom-2-25-A HSQC
ppm
0
10
20
30
40
50
60
70
80
90
100
110
120
130
140
7
6
5
4
3
2
1
ppm



7a

ZGH-Ipom-2-25-A-150106 HMBC in CDCL3



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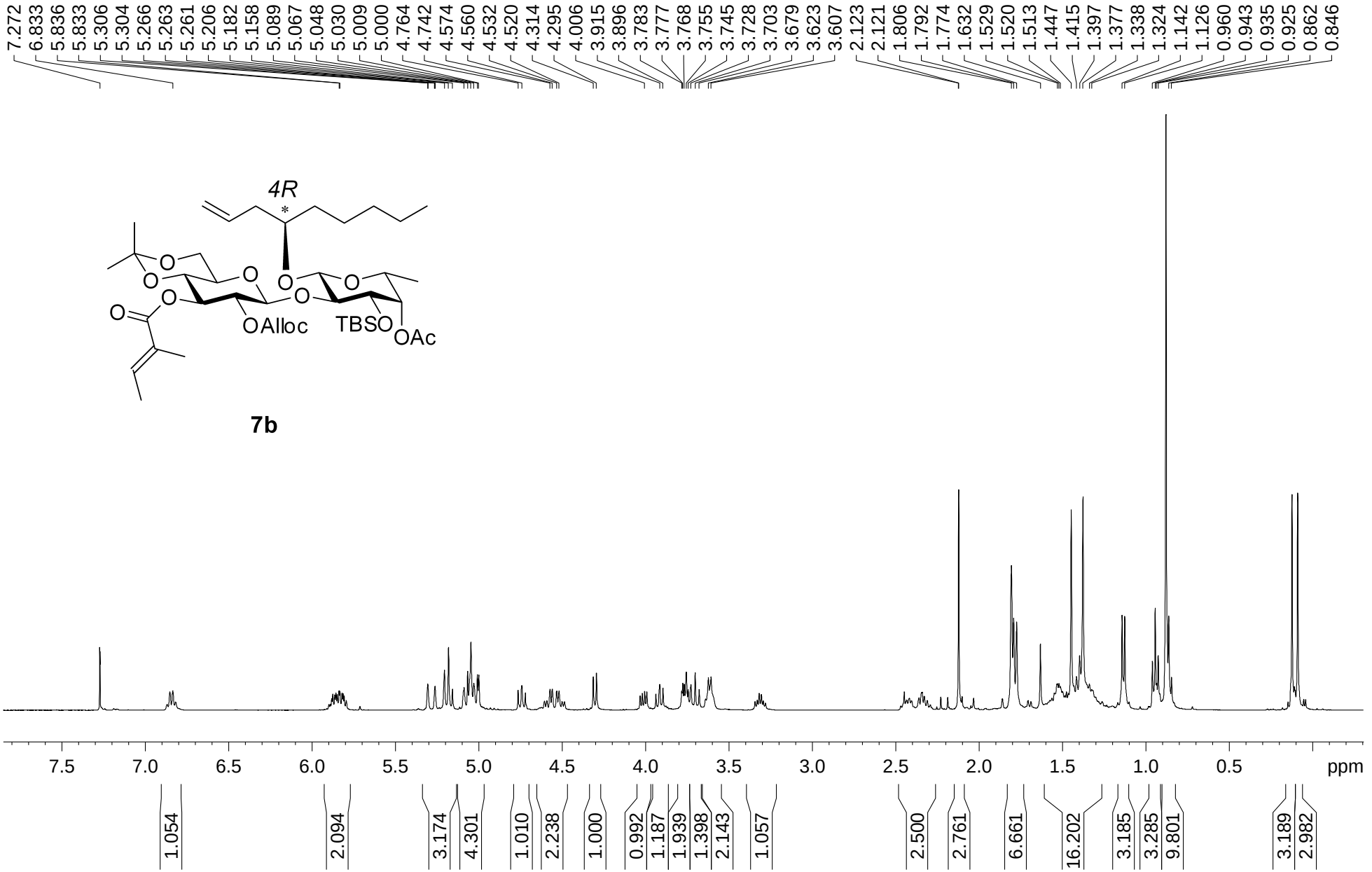
EXPNO	5
PROCNO	1
Date_	20150107
Time	23.35
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDCl3
NS	15
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.1 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
======== CHANNEL f2 ========	
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	122
SFO1	100.6228 MHz
FIDRES	136.088226 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

EDB-Ipom-1-112-A-150608 in CDCL3



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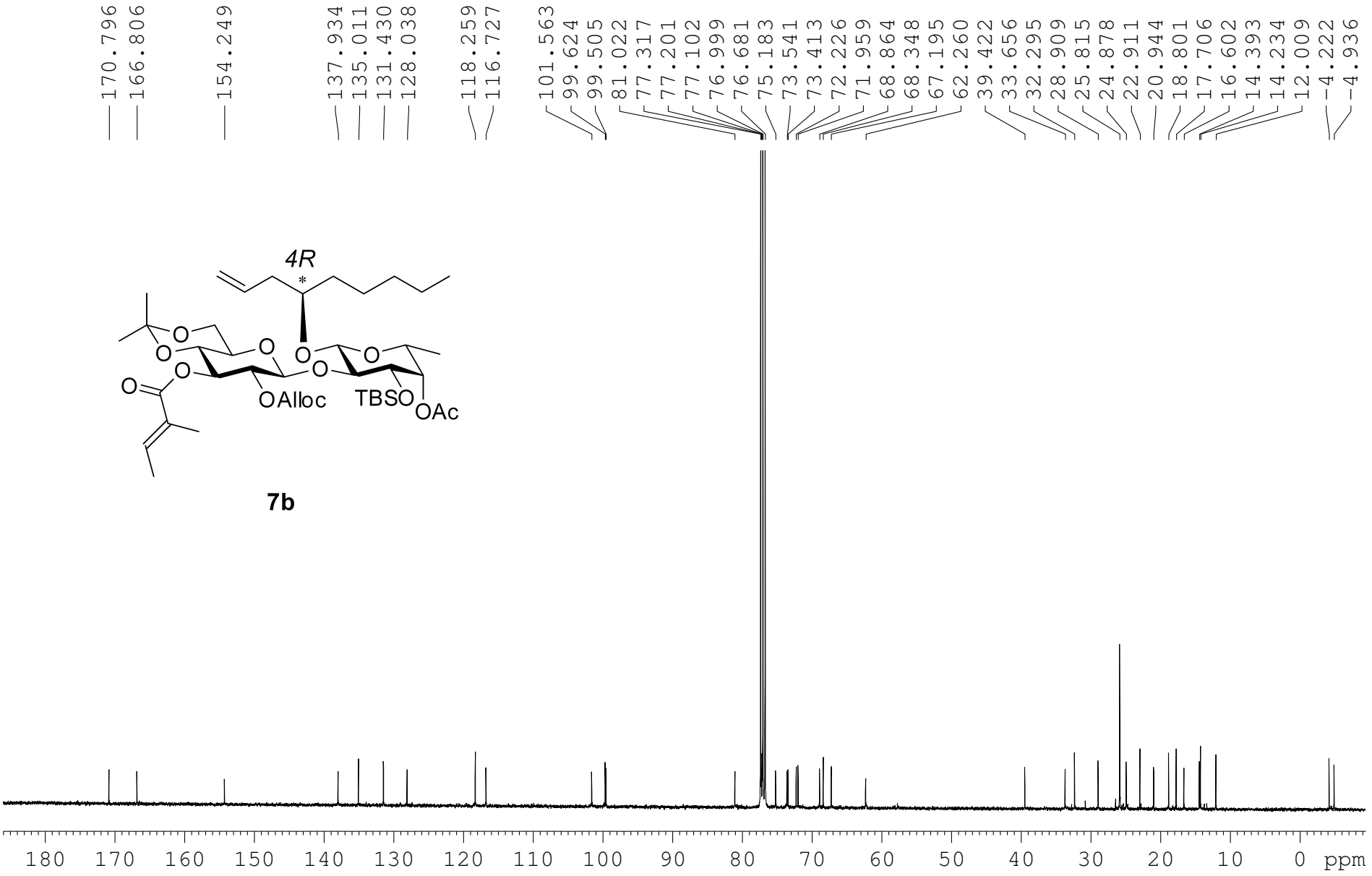
EDB-Ipom-1-112-A-150608 13C in CDCl3



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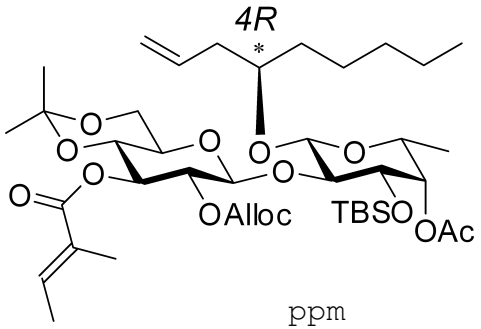

EDB-Ipom-1-112-A-150608 COSY

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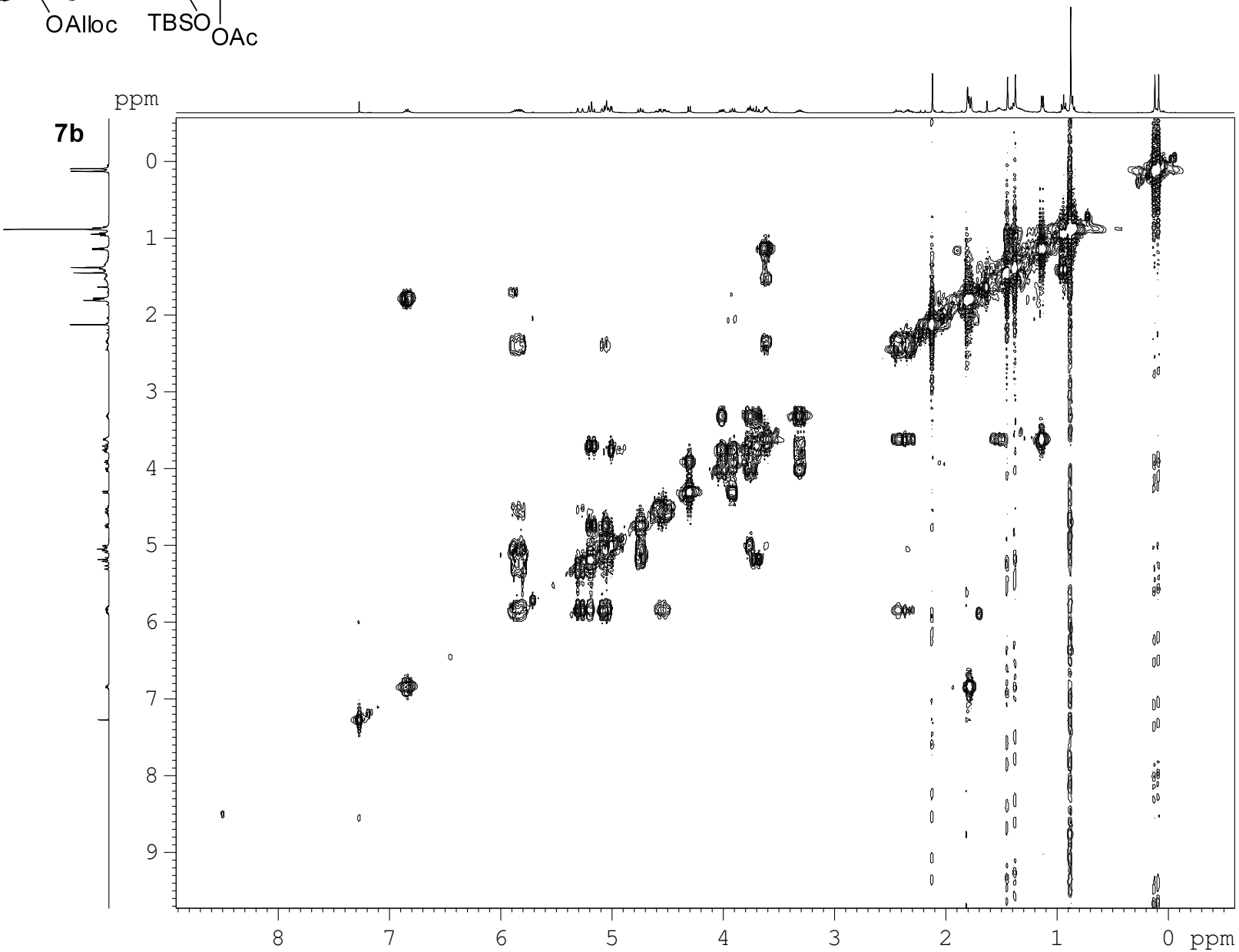
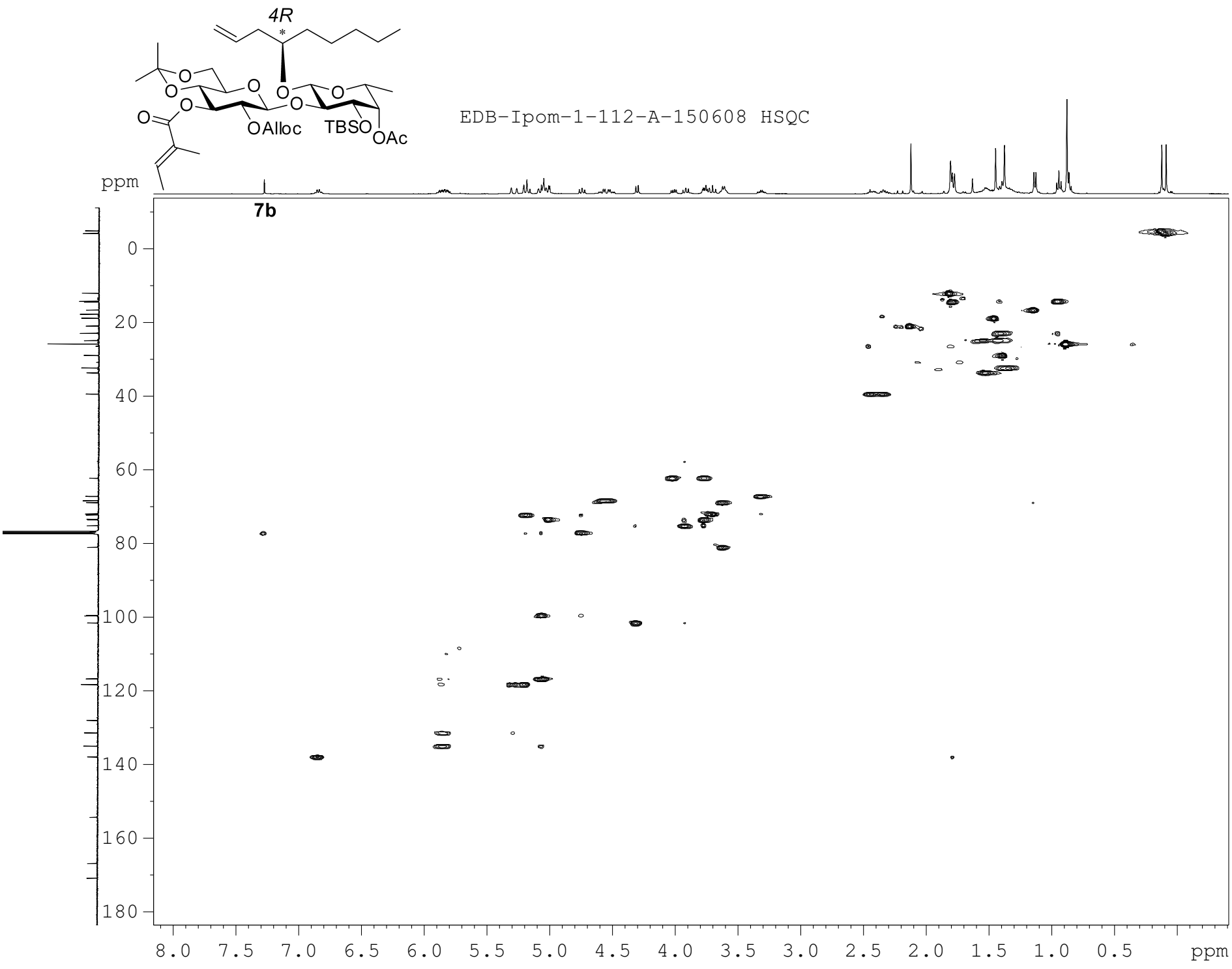
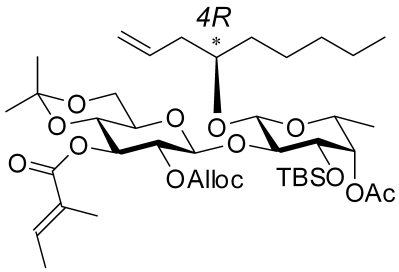
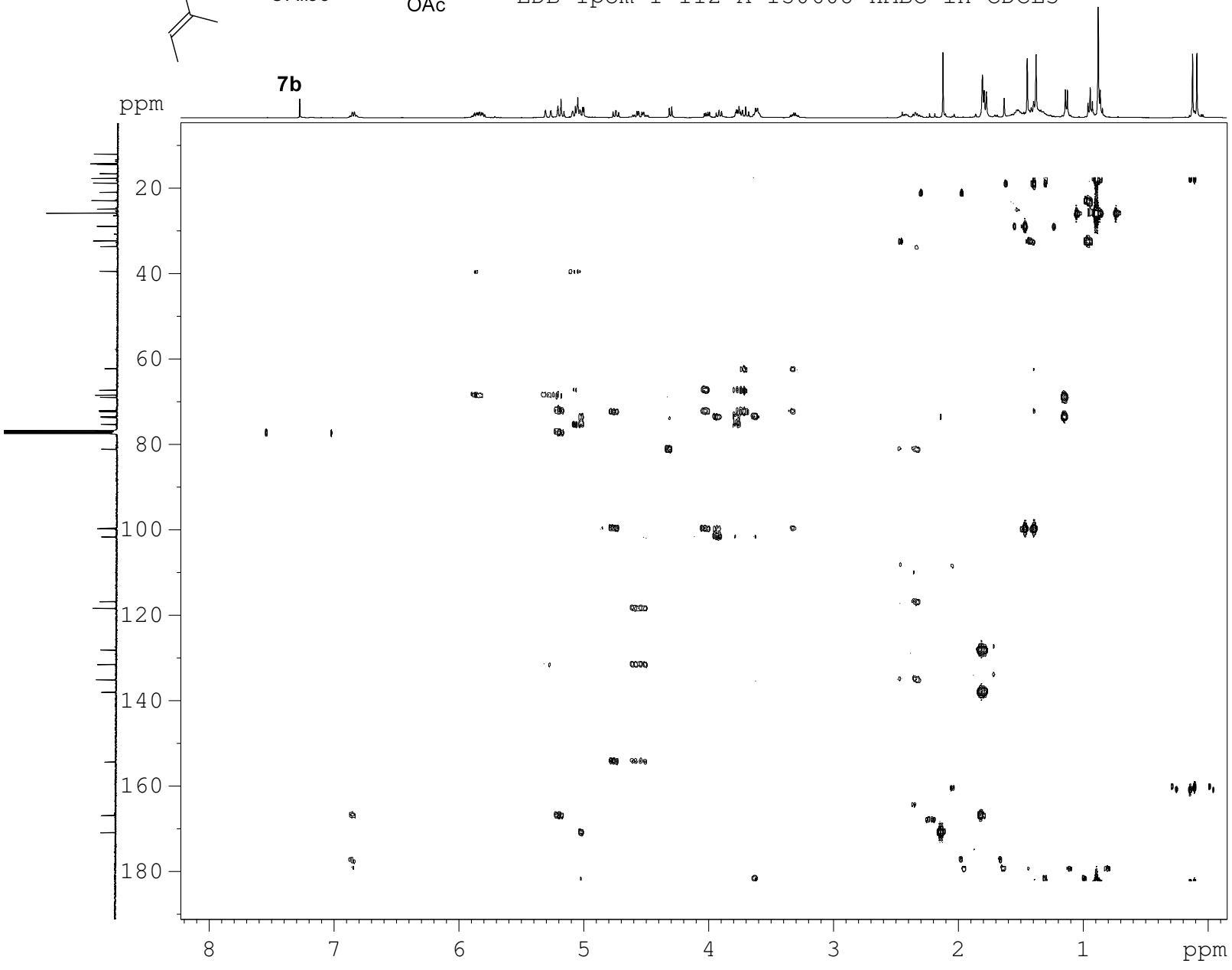


NAME	EDB-Ipom-1-112-A-150608
EXPNO	2
PROCNO	1
Date_	20150610
Time	22.15
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	114
DW	93.600 usec
DE	6.50 usec
TE	292.3 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0


4R
OAlloc
TBSO
OAc
EDB-Ipom-1-112-A-150608 HSQC
ppm
7b
0
20
40
60
80
100
120
140
160
180
8.0
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
ppm



EDB-Ipom-1-112-A-150608 HMBC in CDCL3

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PROCNO                          1
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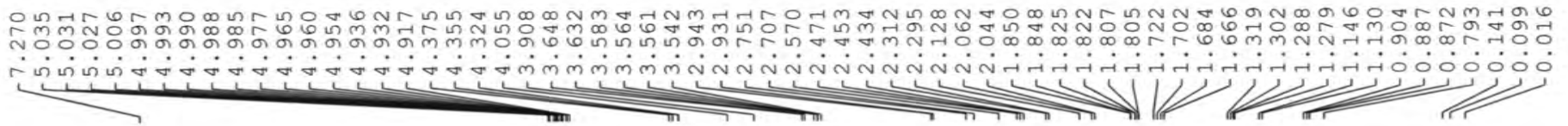
Time                         3.11
INSTRUM                     spect
PROBHD    5 mm PABBO BB-
PULPROG     hmbcgplpndqf
TD                           4096
SOLVENT                    CDCl3
NS                             50
DS                             16
SWH                    5208.333 Hz
FIDRES                 1.271566 Hz
AQ                     0.3932660 sec
RG                          2050
DW                        96.000 usec
DE                         6.50 usec
TE                        292.6 K
CNST2                145.0000000
CNST13                10.0000000
D0                    0.00000300 sec
D1                    1.50000000 sec
D2                    0.00344828 sec
D6                    0.05000000 sec
D16                   0.00020000 sec
IN0                   0.00003010 sec

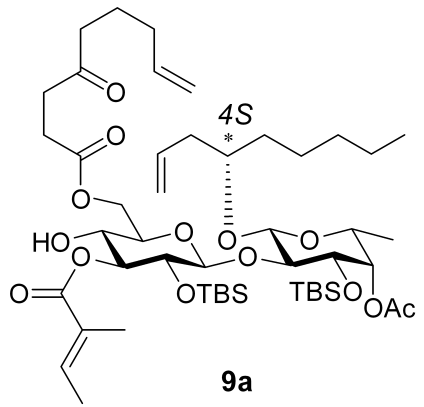
======== CHANNEL f1 ========
NUC1                         1H
P1                        10.00 usec
P2                        20.00 usec
PL1                       -3.50 dB
PL1W                31.17620277 W
SFO1                400.1325208 MHz

======== CHANNEL f2 ========
NUC2                        13C
P3                        10.00 usec
PL2                       -2.10 dB
PL2W                58.37759399 W
SFO2                100.6228138 MHz

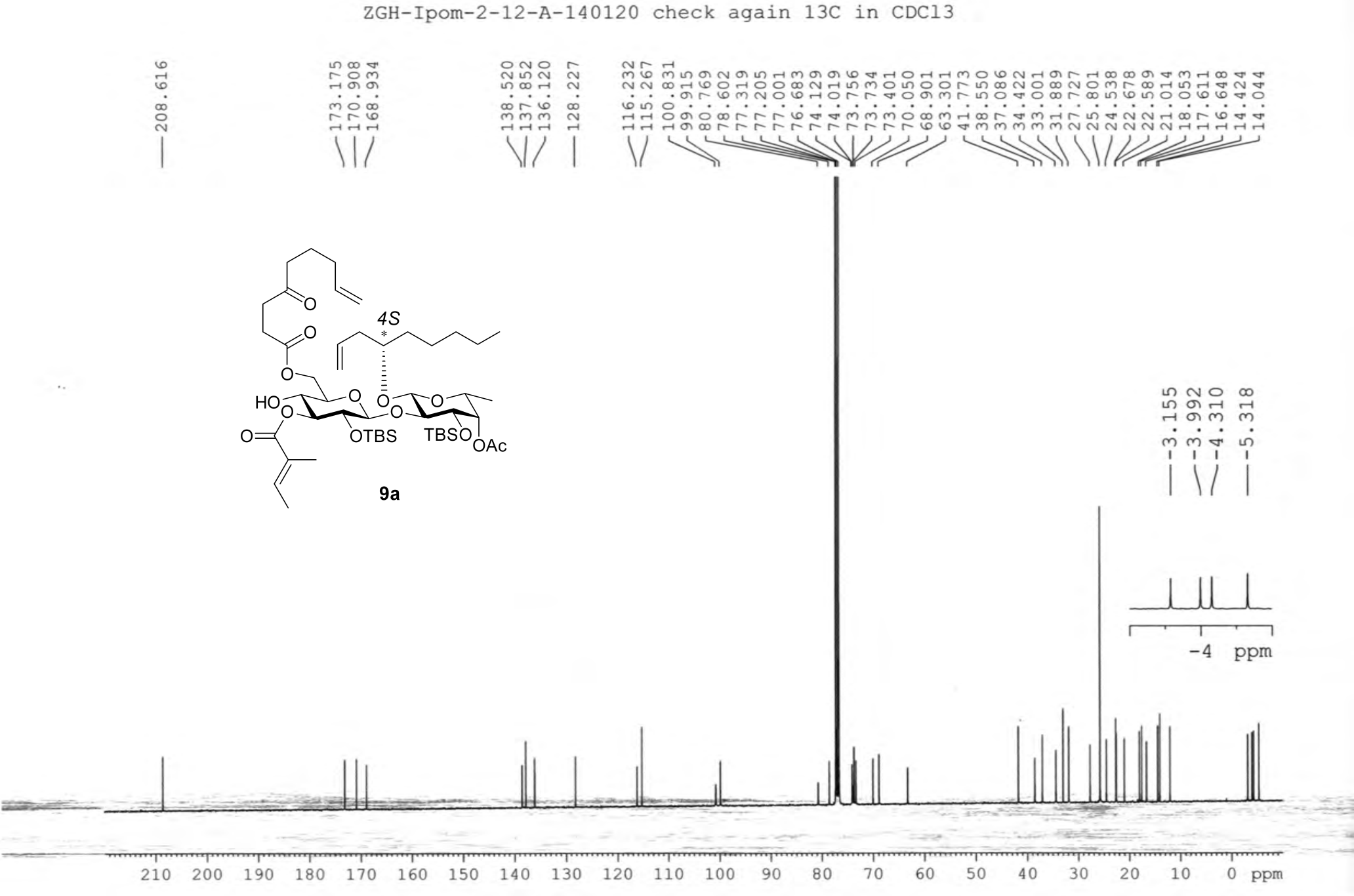
====== GRADIENT CHANNEL =====
GPNAM1                 SINE.100
GPNAM2                 SINE.100
GPNAM3                 SINE.100
GPZ1                      50.00 %
GPZ2                      30.00 %
GPZ3                      40.10 %
P16                     1000.00 usec
ND0                           2
TD                          128
SFO1                  100.6228 MHz
FIDRES                129.709091 Hz
SW                       165.000 ppm
FnMODE                       QF
SI                         2048
SF                  400.1300000 MHz
WDW                        SINE
SSB                           0
LB                         0.00 Hz
GB                            0
PC                         4.00
SI                         1024
MC2                          QF
SF                  100.6127690 MHz
WDW                        SINE
SSB                           0
LB                         0.00 Hz
GB                            0
```

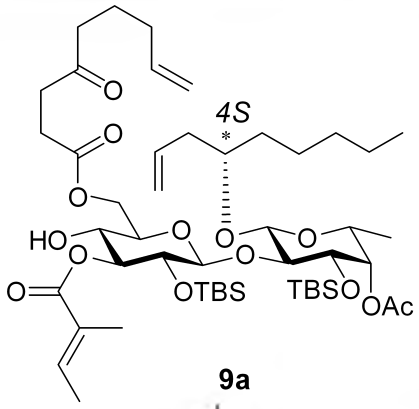
ZGH-Ipom-2-12-A-140120 check again 1H in CDCL3





9a


ZGH-Ipom-2-12-A-140120 check again 13C in CDCl3
208.616
173.175
170.908
168.934
138.520
137.852
136.120
128.227
116.232
115.267
100.831
99.915
80.769
78.602
77.319
77.205
77.001
76.683
74.129
74.019
73.756
73.734
73.401
70.050
68.901
63.301
41.773
38.550
37.086
34.422
33.001
31.889
27.727
25.801
24.538
22.678
22.589
21.014
18.053
17.611
16.648
14.424
14.044
4S
HO
OTBS
TBSO
OAc
9a
-3.155
-3.992
-4.310
-5.318
-4 ppm
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm



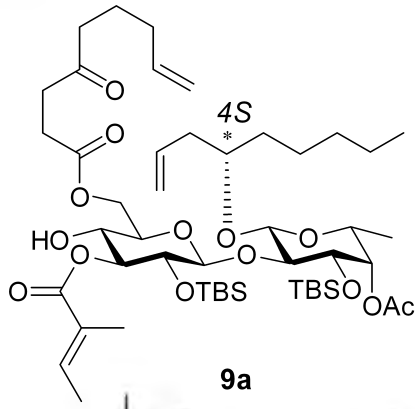
9a

ZGH-Ipom-2-12-A-131217 COSY

NAME	ZGH-Ipom-2-12-A-131217
EXPNO	3
PROCNO	1
Date_	20131217
Time	21.13
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	101
DW	93.600 usec
DE	6.50 usec
TE	292.5 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

ppm 0 1 2 3 4 5 6 7

7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0 ppm



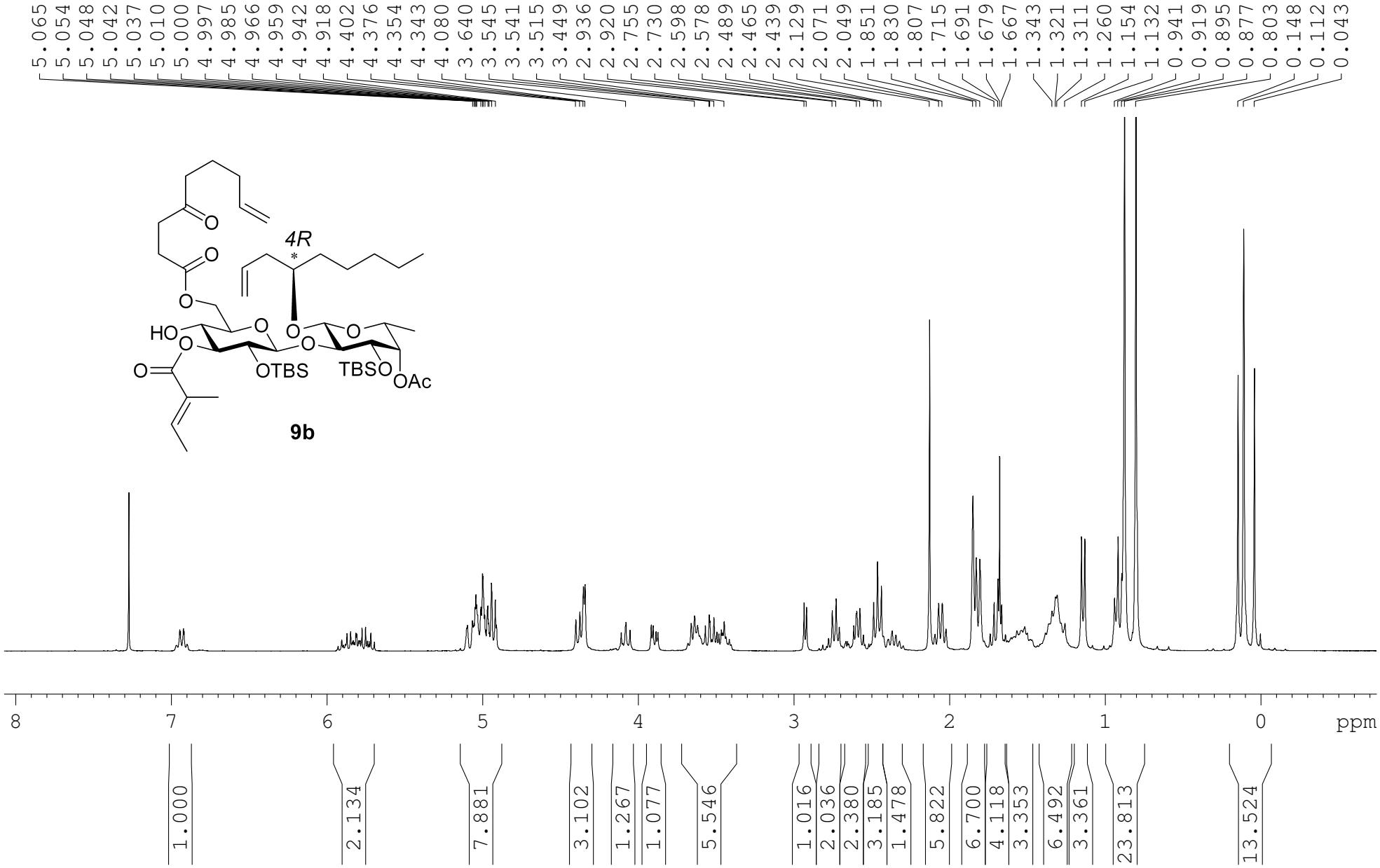
9a

ZGH-Ipom-2-12-A-131217 HSQC

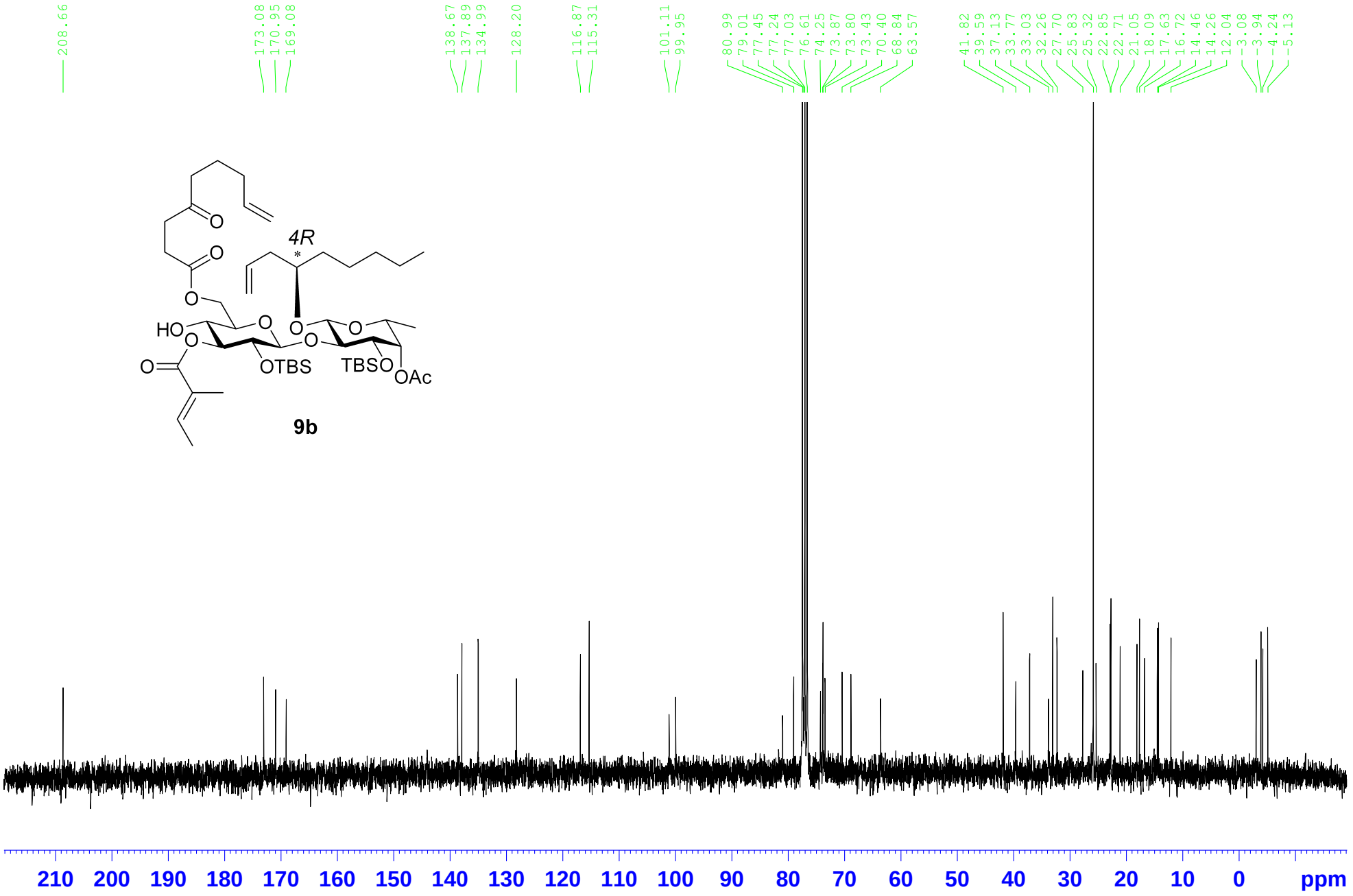
NAME	ZGH-Ipom-2-12-A-131217
EXPNO	4
PROCNO	1
Date_	20131217
Time	20.58
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	2
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.8 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

300 MHz

EDB-Ipom-1-64-A-140801 in CDCl3

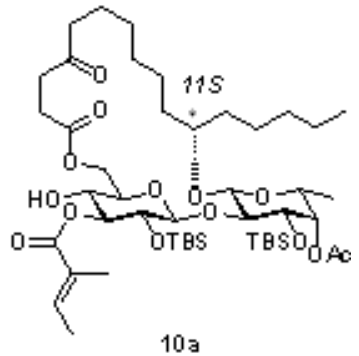


EDB-Ipom-1-64-A-140801 13C in CDCl3 300 MHz

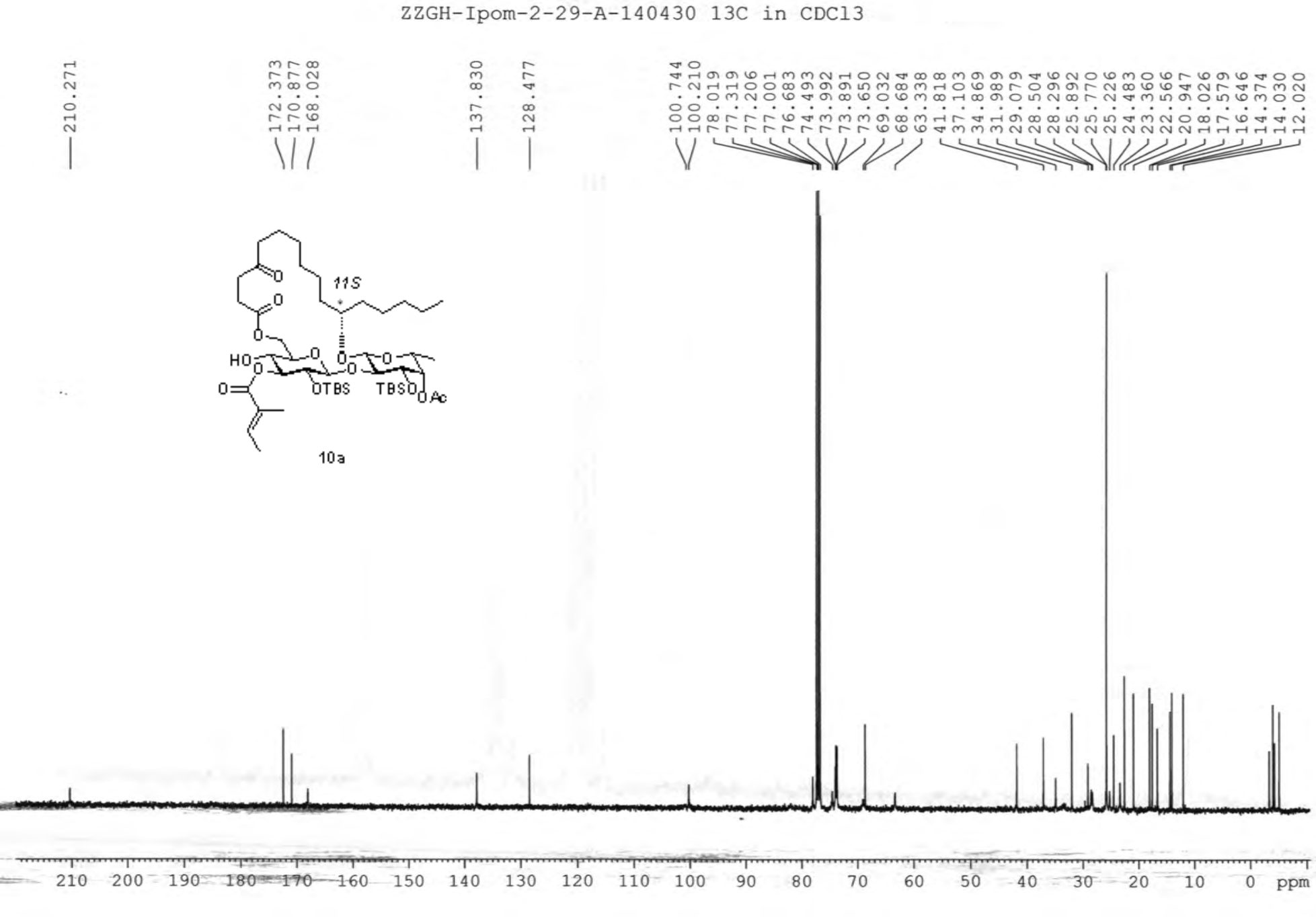


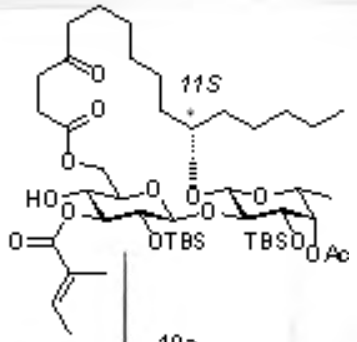
ZGH-Ipom-2-29-A-140430 1H in CDCL3

7.270 6.952 6.949 6.935 6.931 5.023 4.995 4.989 4.971 4.099 4.077 3.942 3.927 3.694 3.678 3.494 3.475 3.472 3.453 3.440 3.424 3.104 3.094 2.918 2.893 2.718 2.686 2.678 2.655 2.651 2.636 2.628 2.611 2.593 2.586 2.574 2.508 2.491 2.482 2.467 2.459 2.450 2.110 1.873 1.825 1.823 1.808 1.806 1.672 1.647 1.401 1.379 1.361 1.321 1.304 1.289 1.282 1.261 1.135 1.119 0.909 0.892 0.865 0.811 0.160 0.114 0.097 0.014



10a


ZZGH-Ipom-2-29-A-140430 13C in CDCl3
210.271
172.373
170.877
168.028
137.830
128.477
100.744
100.210
78.019
77.319
77.206
77.001
76.683
74.493
73.992
73.891
73.650
69.032
68.684
63.338
41.818
37.103
34.869
31.989
29.079
28.504
28.296
25.892
25.770
25.226
24.483
23.360
22.566
20.947
18.026
17.579
16.646
14.374
14.030
12.020
11S
HO
OTBS
TBSO
OAc
10a
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

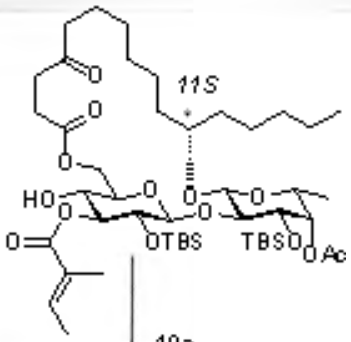


ZGH-Ipom-2-29-A-140430 COSY

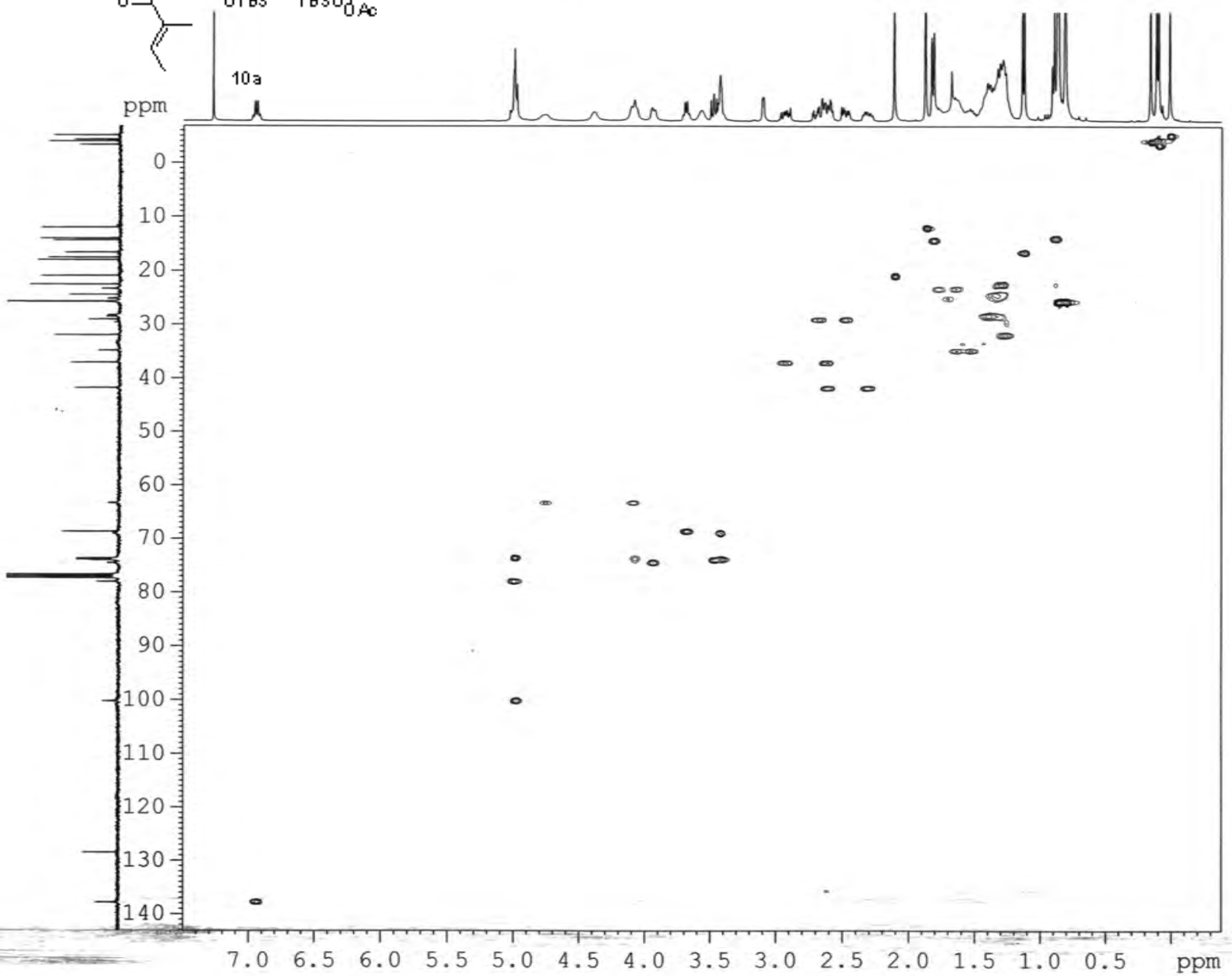
10a

ppm

NAME	ZGH-Ipom-2-29-A-140430
EXPNO	2
PROCNO	1
Date_	20150317
Time	14.23
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	161
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	102
SFO1	400.1324 MHz
FIDRES	52.371376 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



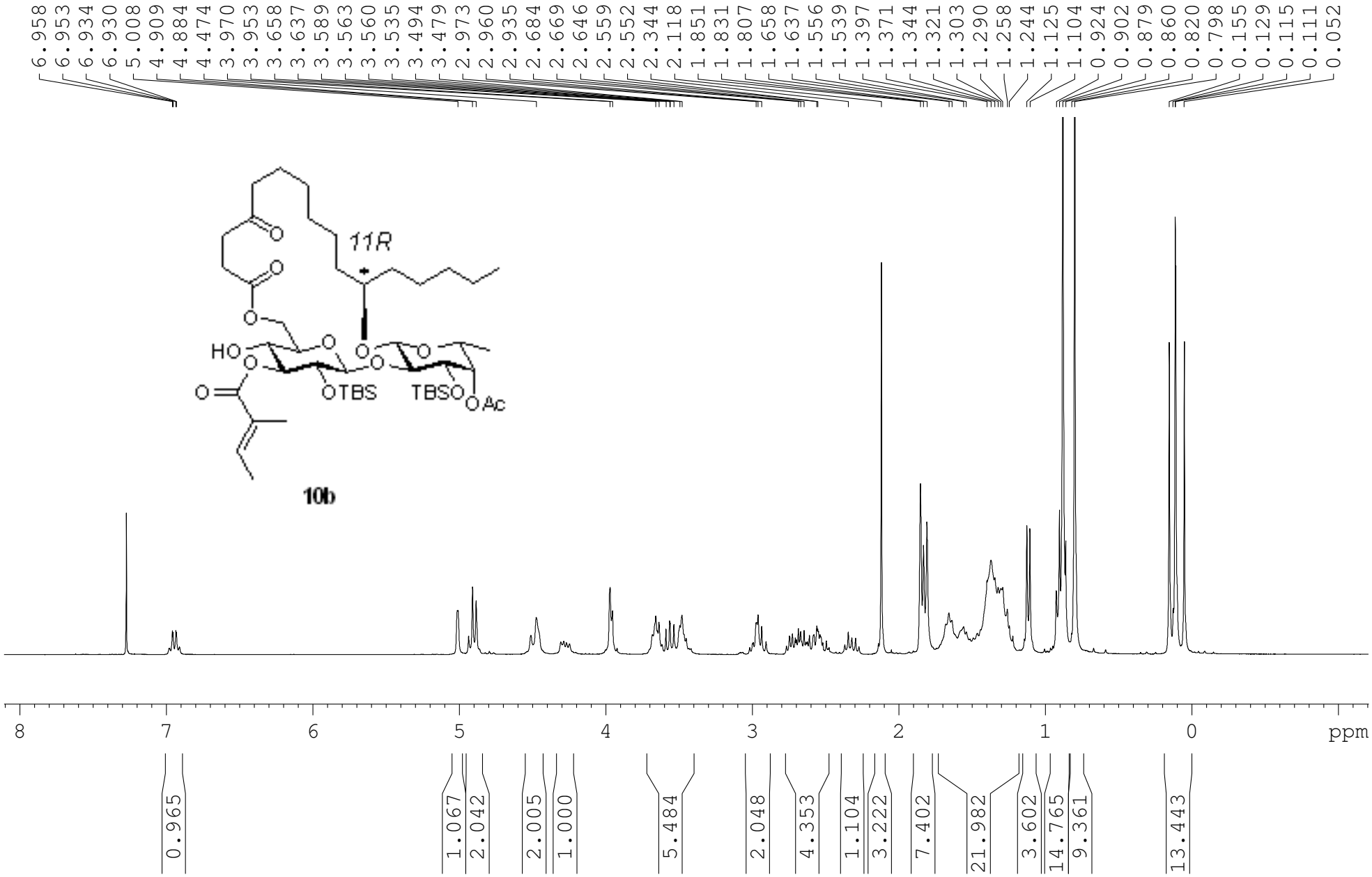
ZGH-Ipom-2-29-A-140430 HSQC



NAME	ZGH-Ipom-2-29-A-140430
EXPNO	4
PROCNO	1
Date_	20150318
Time	7.02
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDC13
NS	8
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	293.0 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

300 MHz

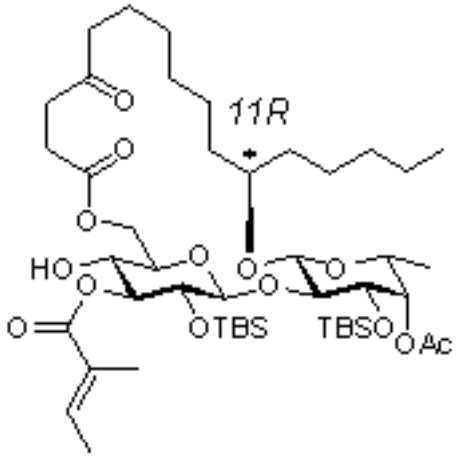
EDB-Ipom-1-66-A-140808 in CDCl3



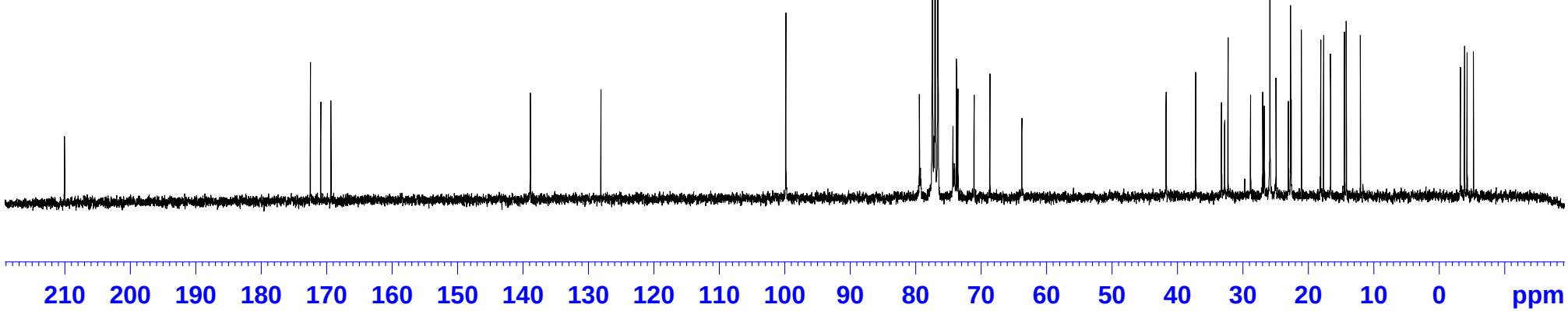
EDB-Ipom-1-66-A-140808 13C in CDCl3

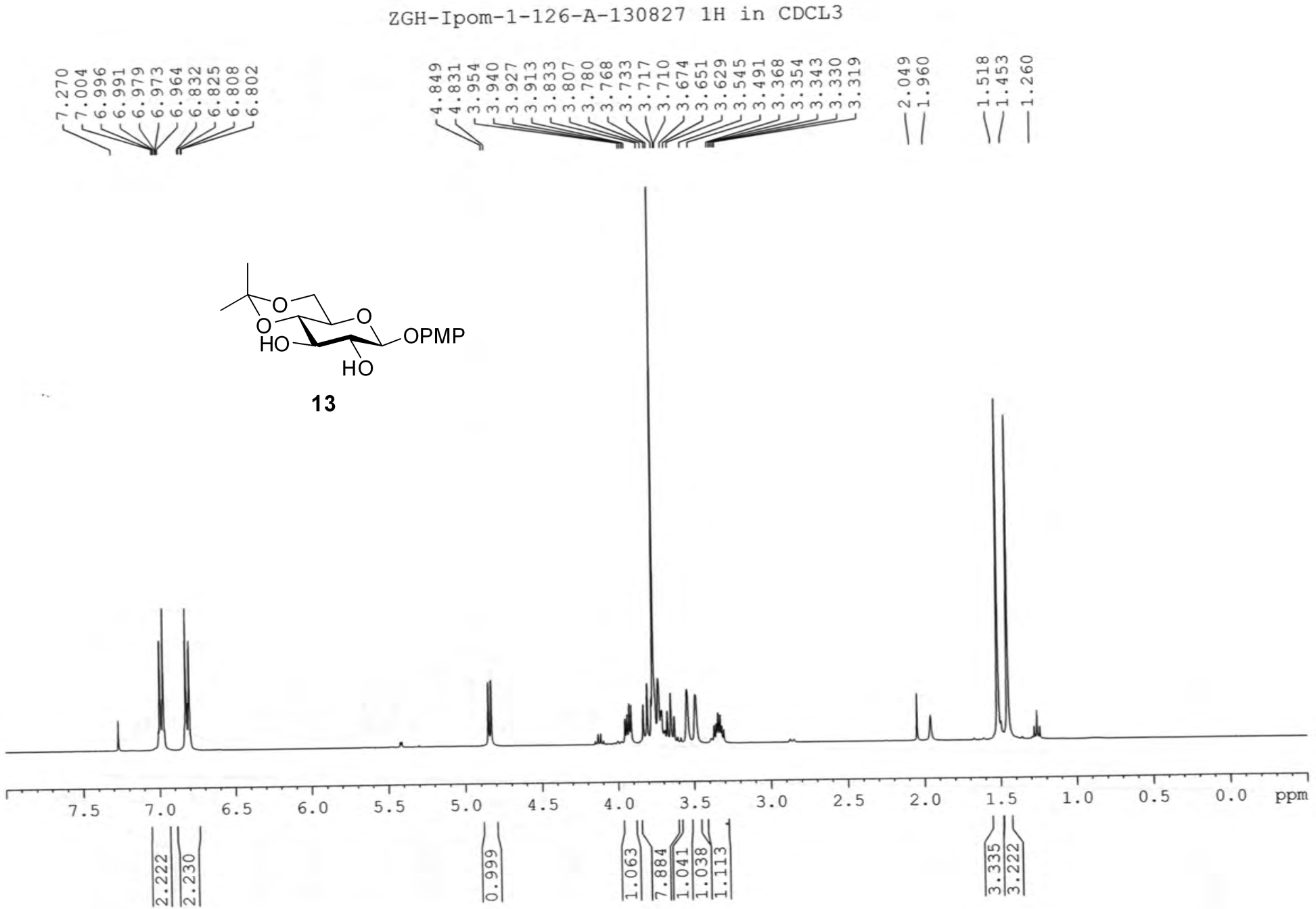
300 MHz

210.09
172.51
170.93
169.37
138.89
128.11
99.84
79.44
79.27
77.46
77.23
77.03
76.61
74.29
74.08
73.79
73.76
73.54
71.08
68.65
63.78
41.74
37.21
33.27
32.78
32.27
28.83
26.96
26.72
25.97
25.85
24.94
23.04
22.71
22.62
21.05
18.11
17.66
16.59
14.47
14.19
12.04
-3.25
-3.88
-4.27
-5.24



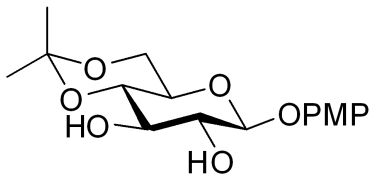
10b



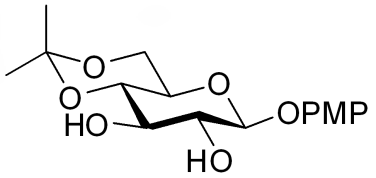

ZGH-Ipom-1-126-A-130827 1H in CDCL3
7.270
7.004
6.996
6.991
6.979
6.973
6.964
6.832
6.825
6.808
6.802
4.849
4.831
3.954
3.940
3.927
3.913
3.833
3.807
3.780
3.768
3.733
3.717
3.710
3.674
3.651
3.629
3.545
3.491
3.368
3.354
3.343
3.330
3.319
2.049
1.960
1.518
1.453
1.260
O
O
O
HO
HO
OPMP
13
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ppm
2.222
2.230
0.999
1.063
7.884
1.041
1.038
1.113
3.335
3.222

ZGH-Ipom-1-126-A-130827 13C in CDCl3

155.552
150.839
118.516
118.415
114.534
102.317
99.883
77.316
76.998
76.680
74.359
73.447
72.961
67.318
61.959
55.579
28.943
19.022

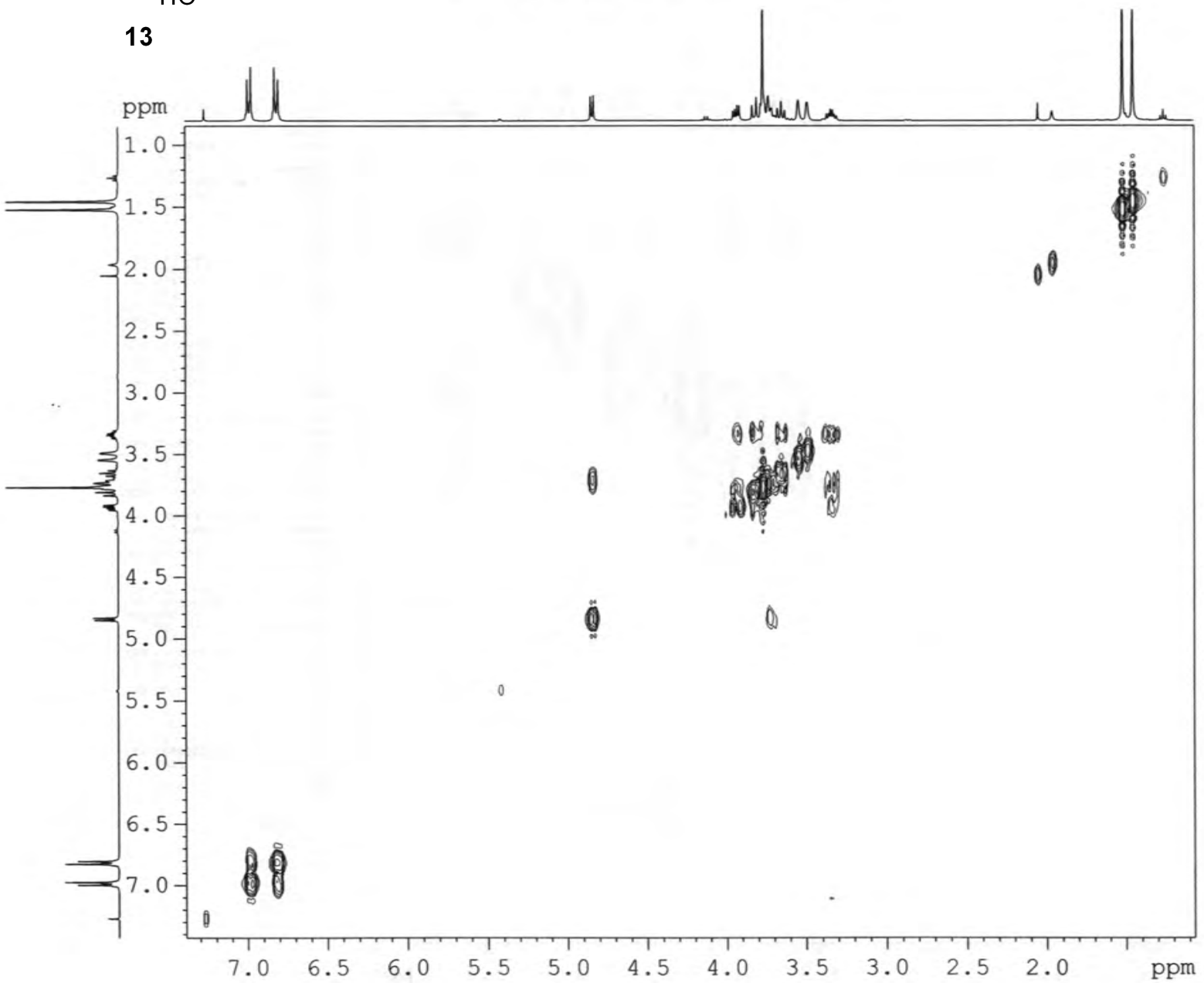


13

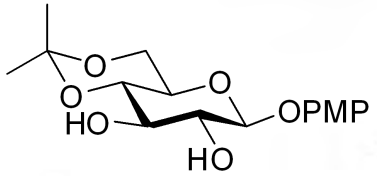


13

ZGH-Ipom-1-126-A-130827 COSY

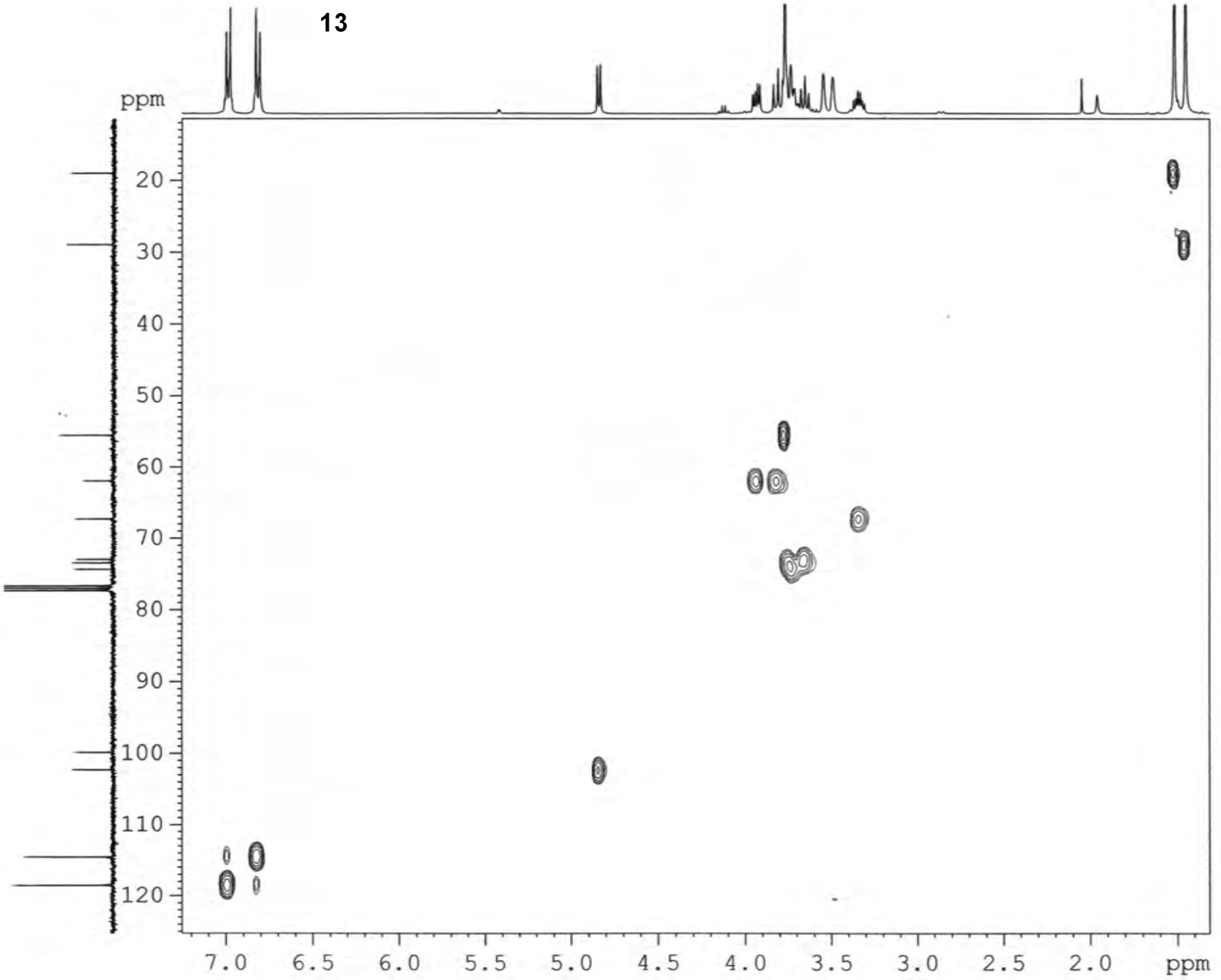


NAME	ZGH-Ipom-1-126-A-130827
EXPNO	2
PROCNO	1
Date_	20150313
Time_	19.26
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	114
DW	93.600 usec
DE	6.50 usec
TE	292.7 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	91
SFO1	400.1324 MHz
FIDRES	58.701981 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



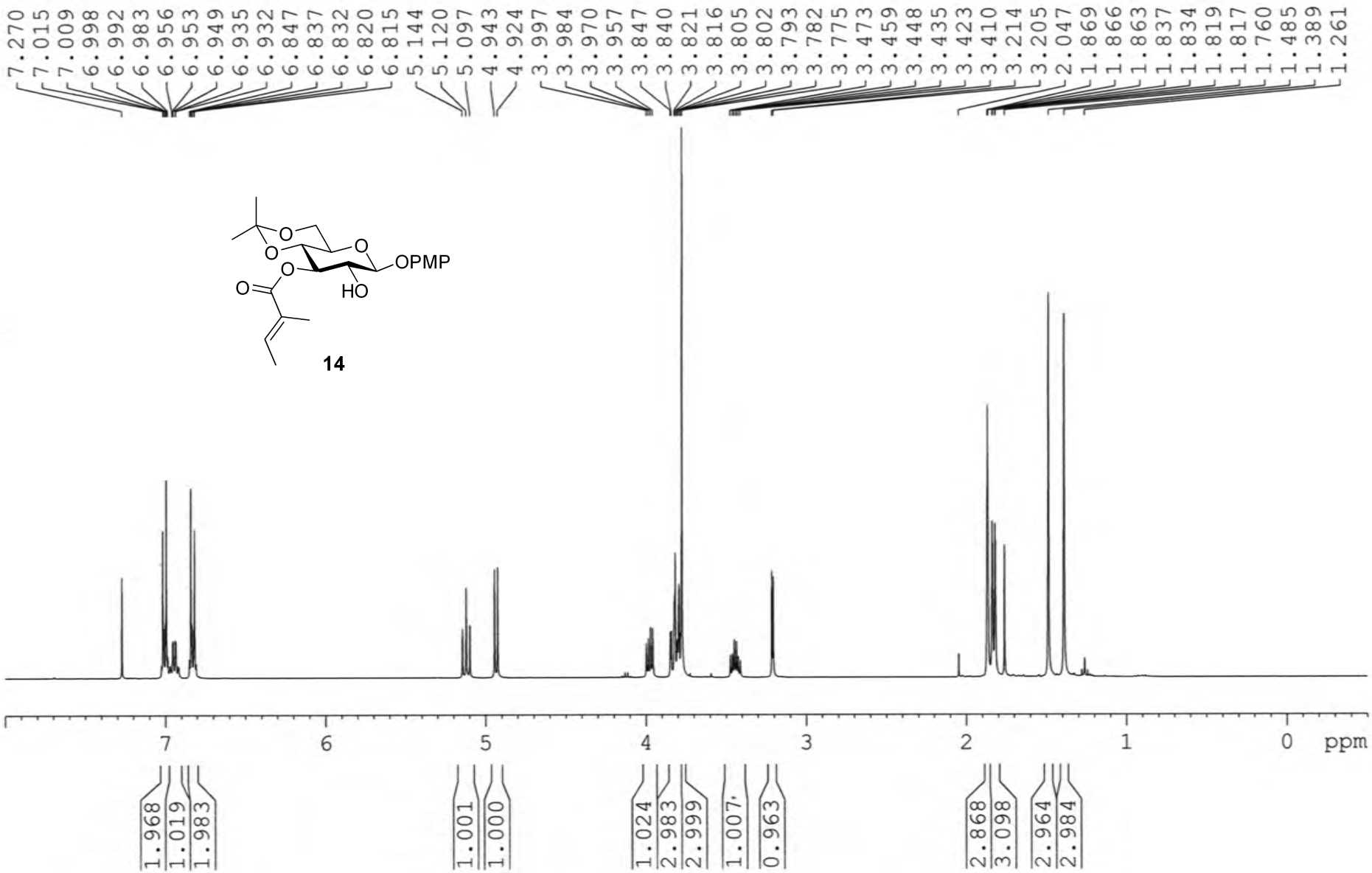
13

ZGH-Ipom-1-126-A-130827 HSQC

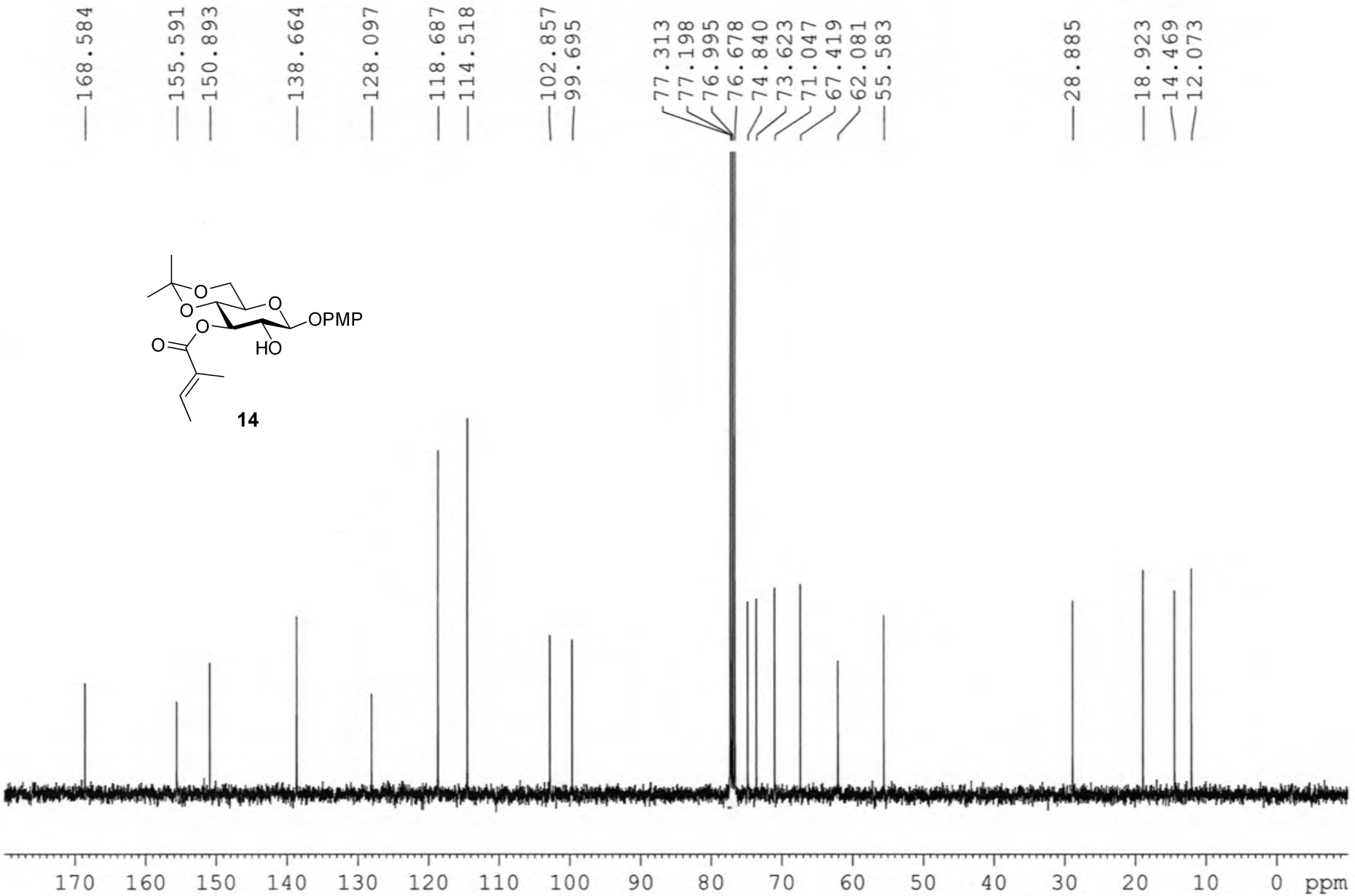


NAME	ZGH-Ipom-1-126-A-130827
EXPNO	4
PROCNO	1
Date_	20150313
Time	19.38
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	4
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.5 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	75
SFO1	100.6203 MHz
FIDRES	222.222214 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

ZGH-Ipom-1-132-B-130831 in CDCl3

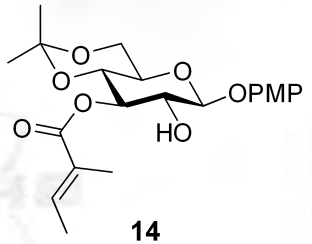


ZGH-Ipom-1-132-B-130831 13C in CDCl3

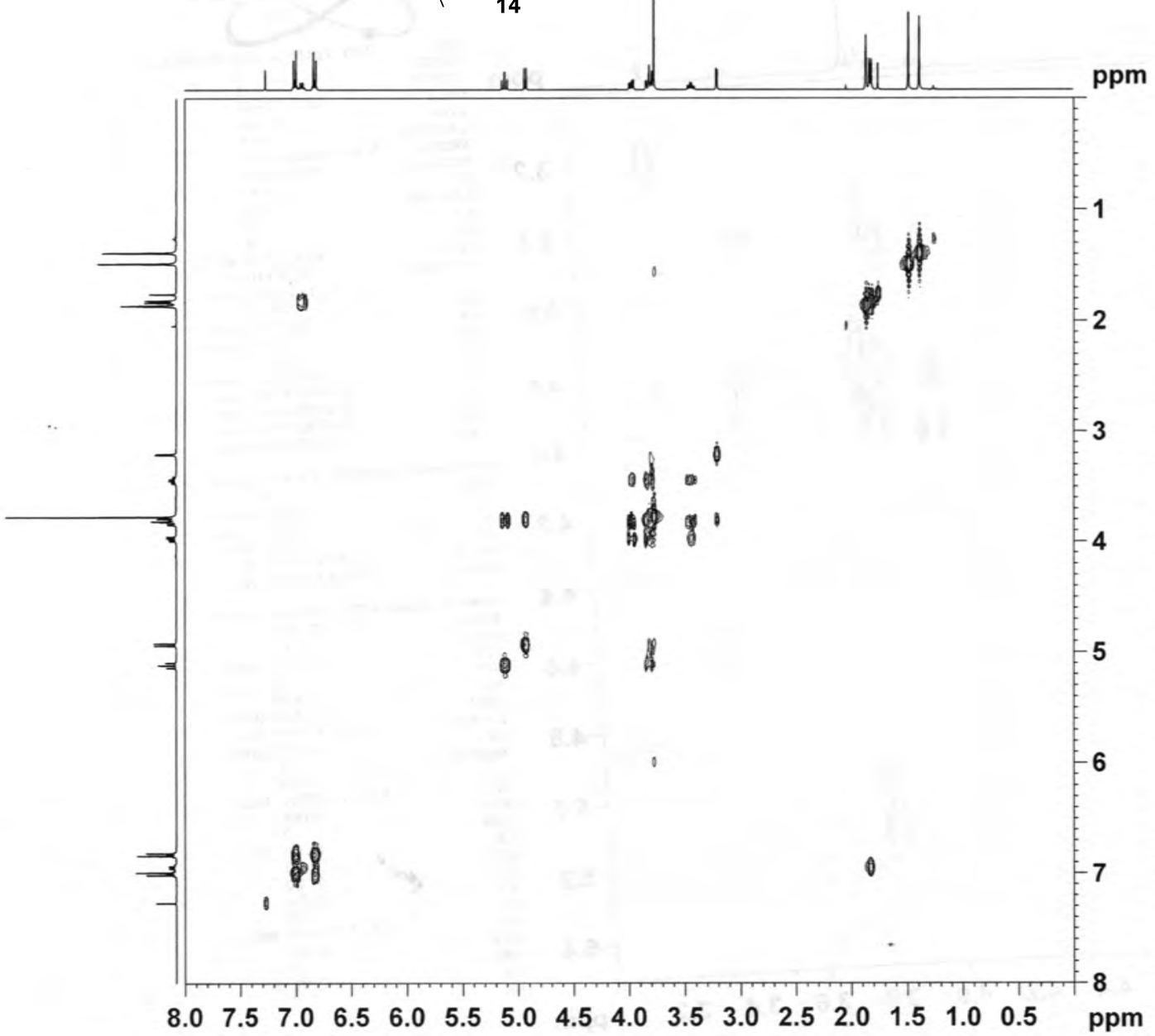


14

H-Ipom-1-132-B-130831 COSY



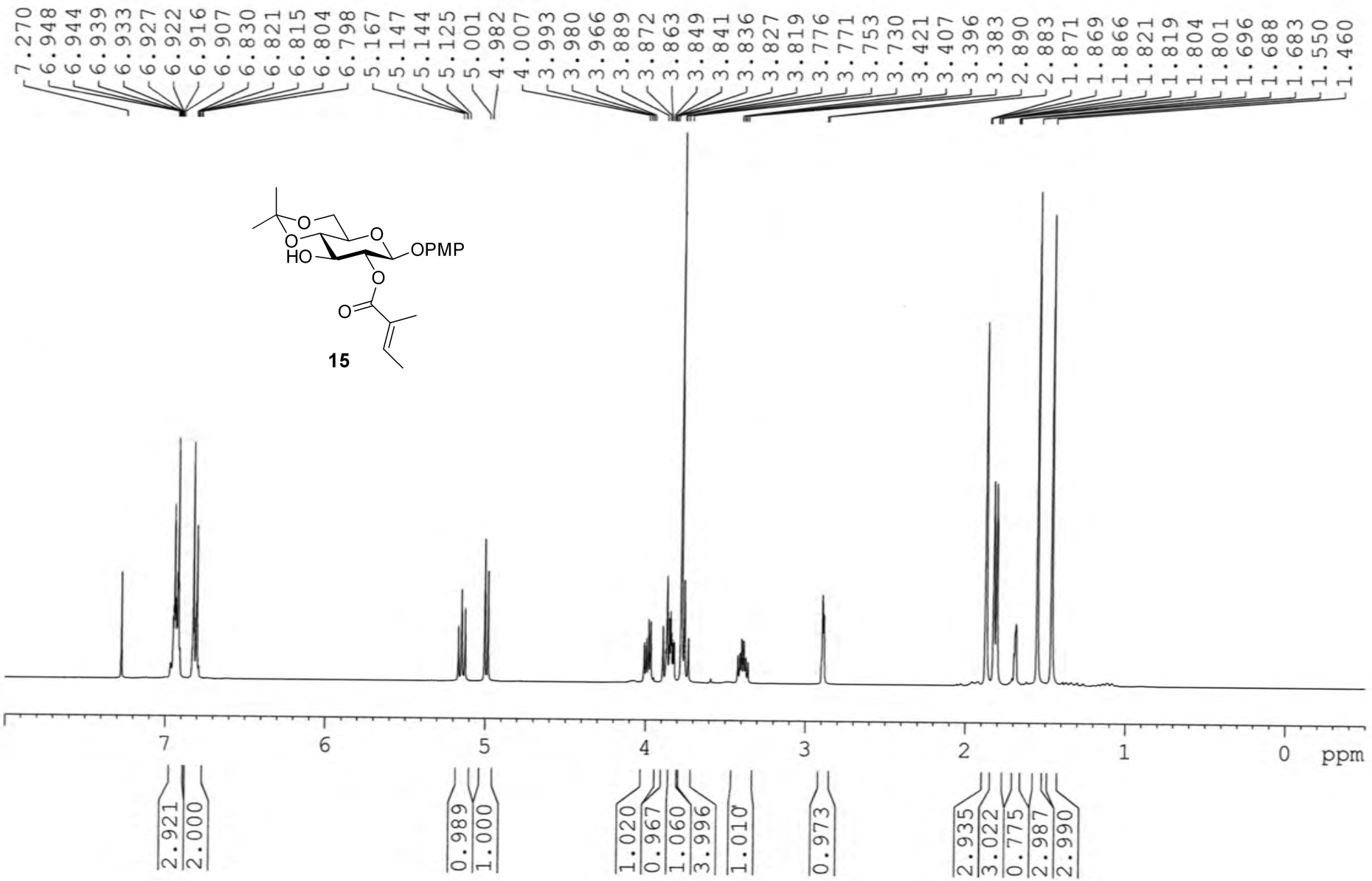
14



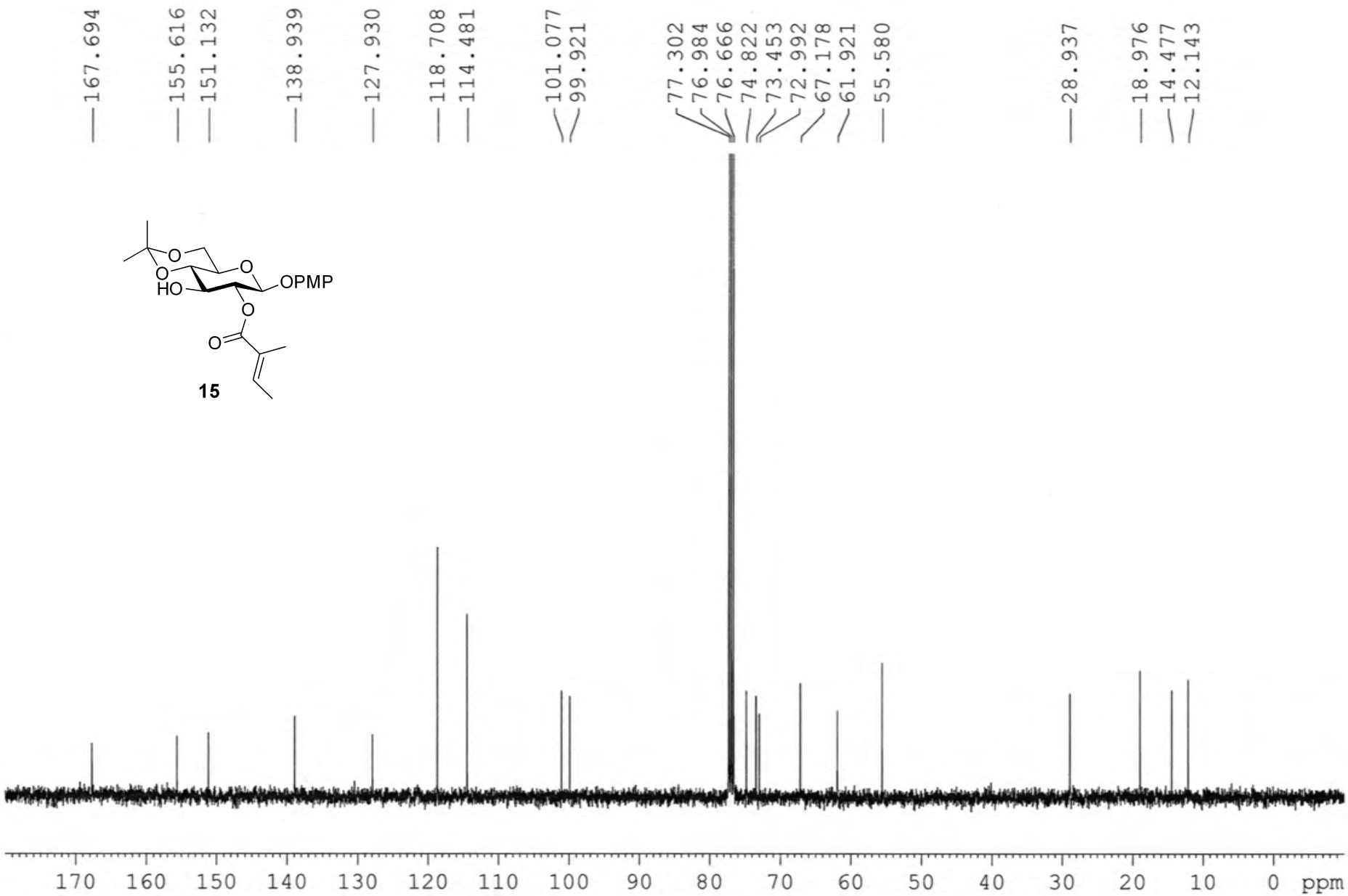
BRUKER

NAME	ZGH-Ipom-1-132-B-130831
EXPNO	3
PROCNO	1
Date_	20130903
Time	22.03
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	90.5
DW	93.600 usec
DE	6.50 usec
TE	293.8 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

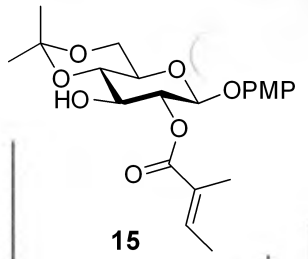
ZGH-Ipom-1-132-A-130831 in CDCl3



ZGH-Ipom-1-132-A-130831 13C in CDCl3

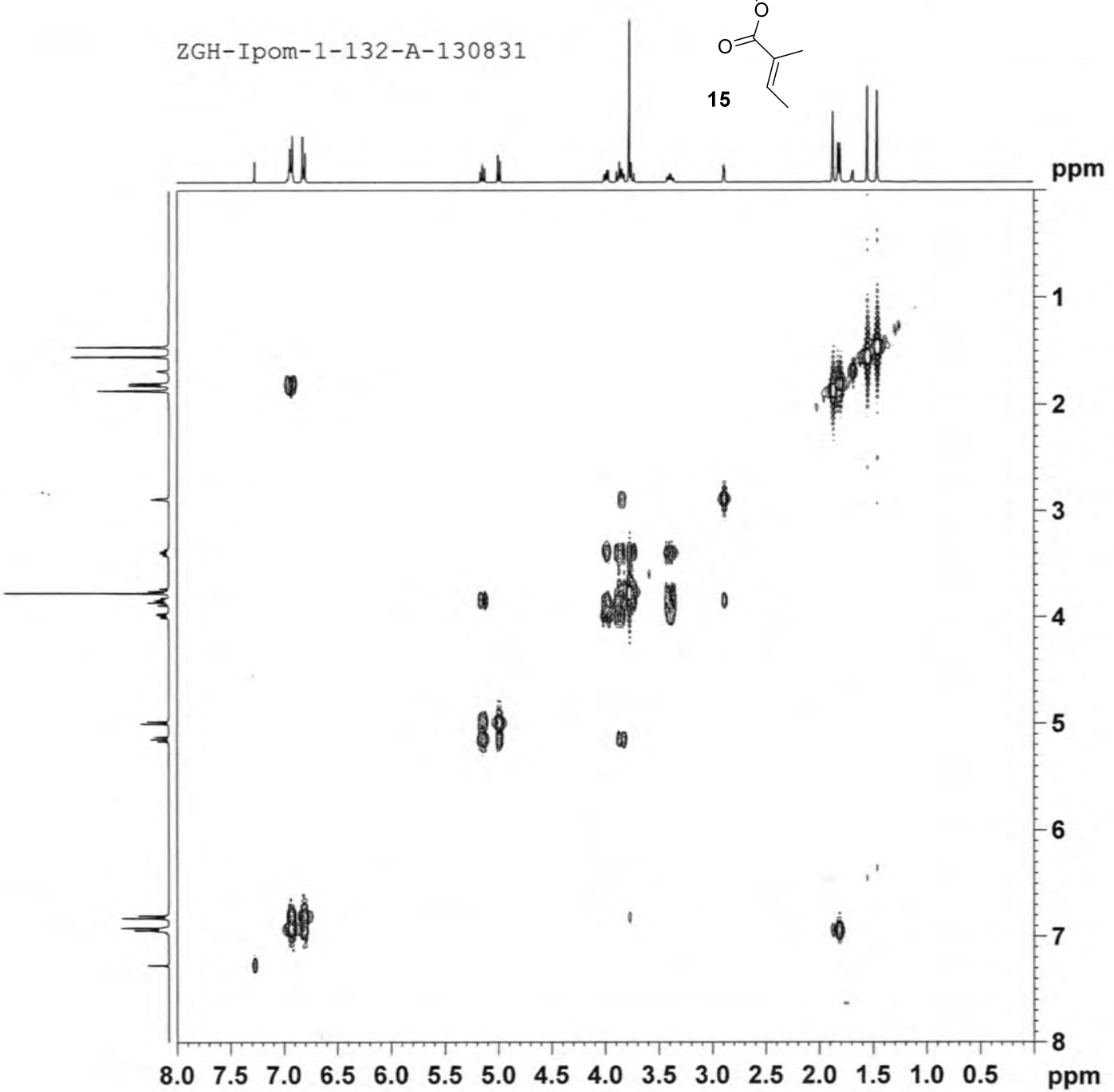


15



15

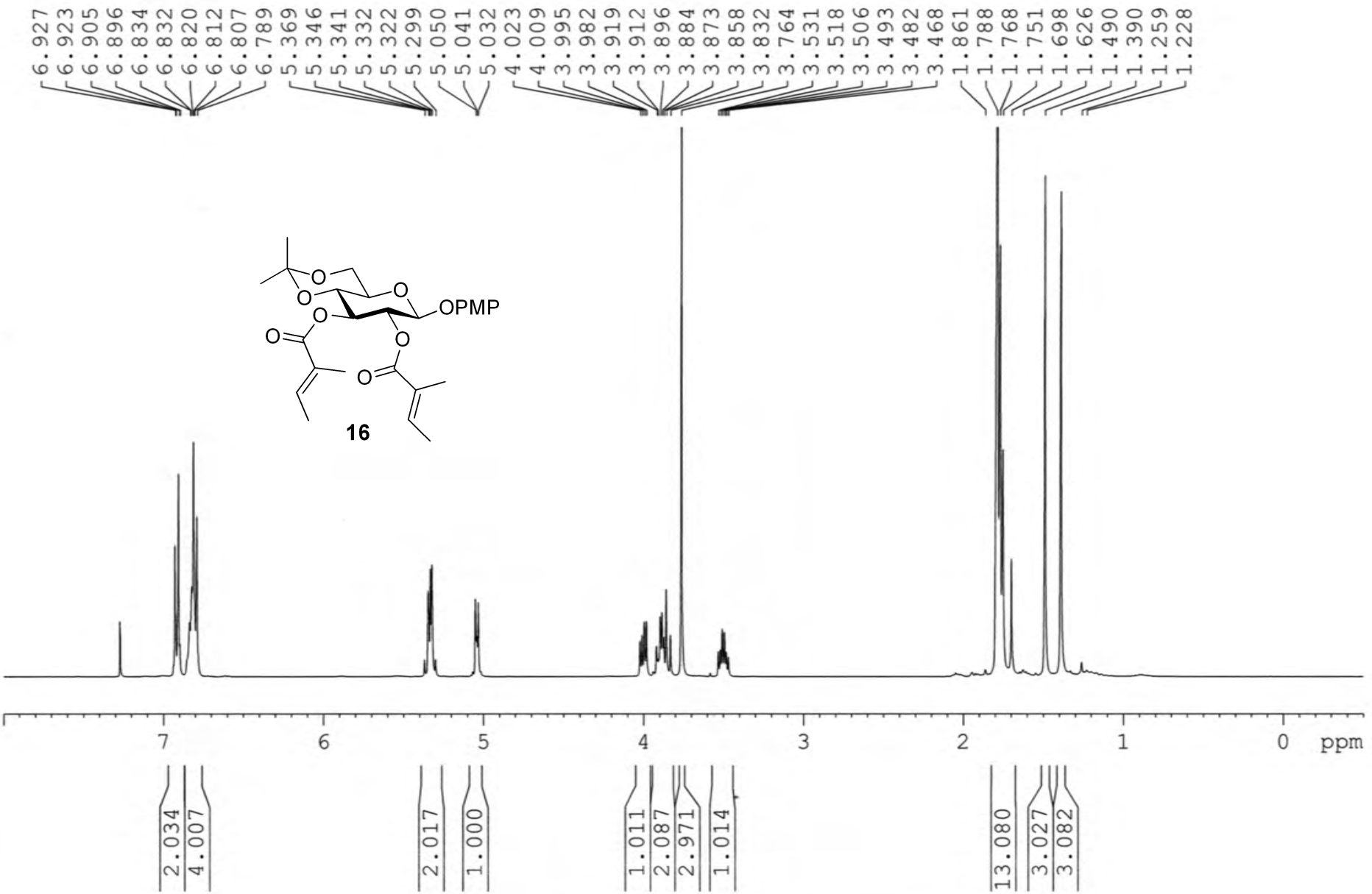
ZGH-Ipom-1-132-A-130831



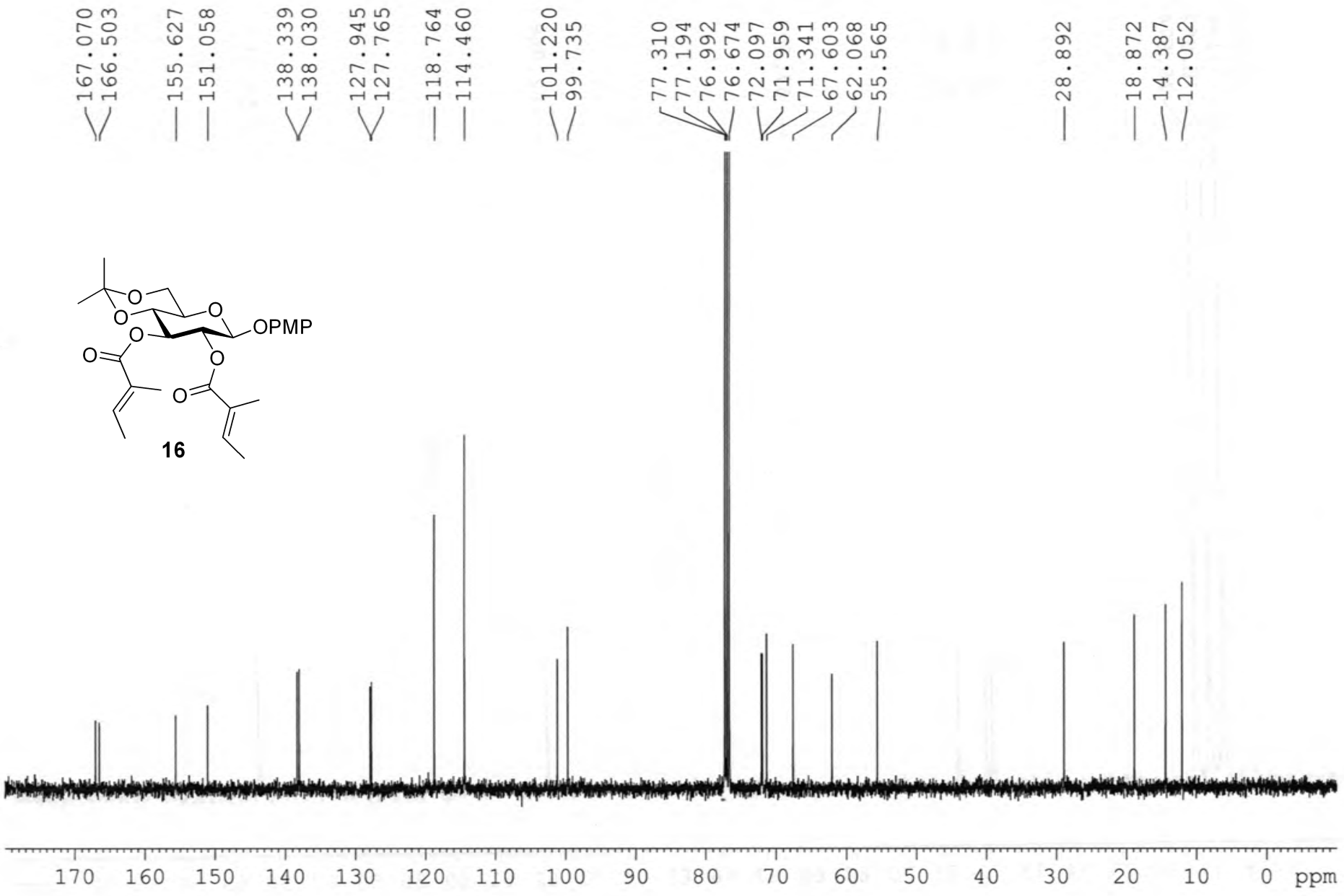
BRUKER

NAME	ZGH-Ipom-1-132-A-130831
EXPNO	2
PROCNO	1
Date_	20130903
Time	20.31
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDC13
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	144
DW	93.600 usec
DE	6.50 usec
TE	293.5 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

ZGH-Ipom-1-132-C-130831 in CDCl3



ZGH-Ipom-1-132-C-130831 13C in CDCl3

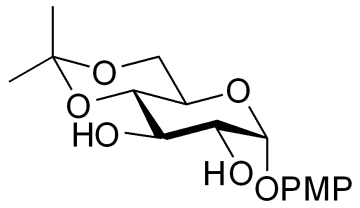


16

ZGH-Ipom-1-126-B-130827 1H in CDCL3

7.275
7.270
7.003
6.985
6.980
6.971
6.830
6.811
6.807
6.799

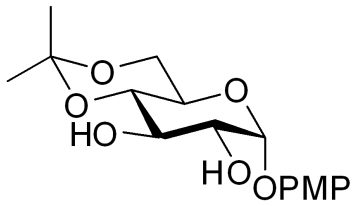
5.414
5.405
4.031
4.026
4.008
4.003
3.985
3.980
3.866
3.853
3.833
3.815
3.803
3.769
3.759
3.747
3.737
3.728
3.714
3.699
3.632
3.610
3.587
3.444
3.425
2.994
2.971
2.951
2.045
2.026
1.522
1.444
1.277
1.259
1.241



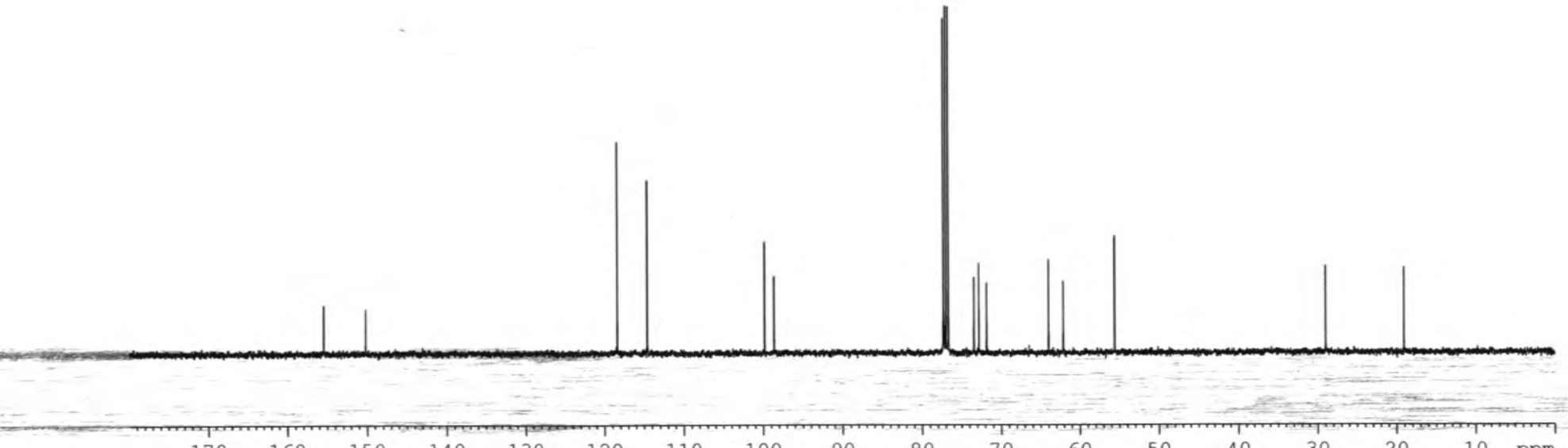
18

ZGH-Ipom-1-126-B-130827 13C in CDCl3

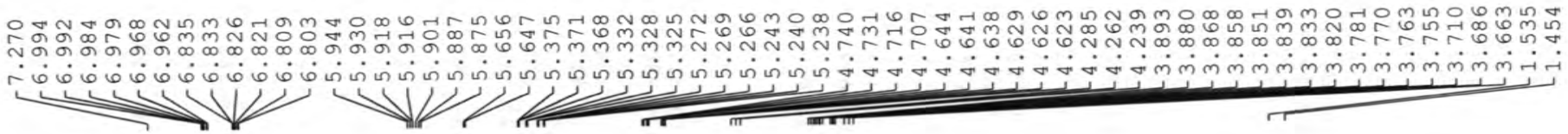
155.418
150.180
118.406
114.638
99.803
98.619
77.319
77.201
77.001
76.683
73.430
72.806
71.845
63.990
62.129
55.589
28.999
19.075

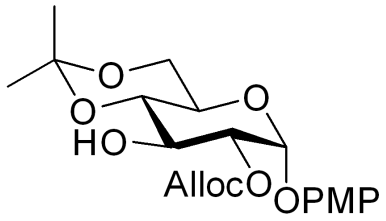


18



ZGH-Ipom-1-152-A-131001 1H in CDCL3

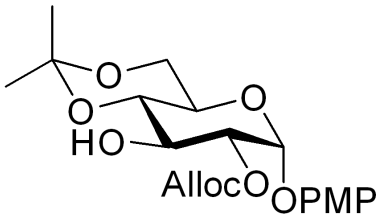




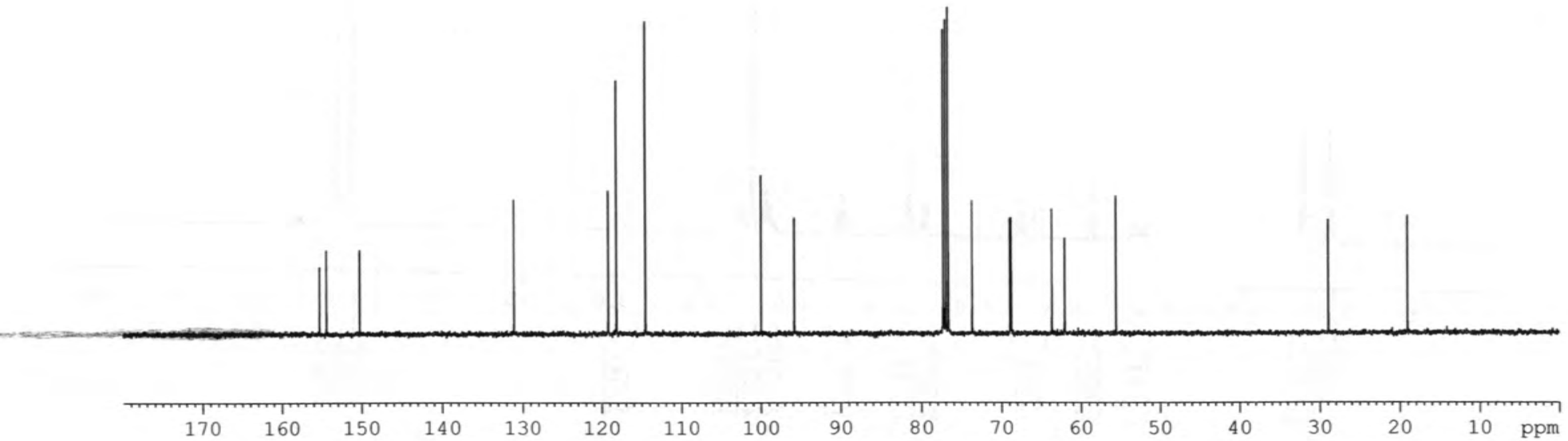
19

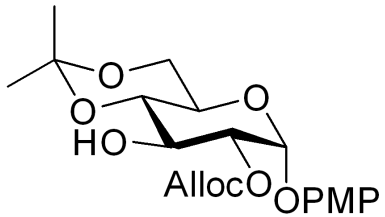
ZGH-Ipom-1-152-A-131001 13C in CDCl3

155.280
154.433
150.253
131.072
119.197
118.161
114.544
99.973
95.836
77.317
76.999
76.680
73.674
68.913
68.763
63.662
62.043
55.563
28.923
19.046



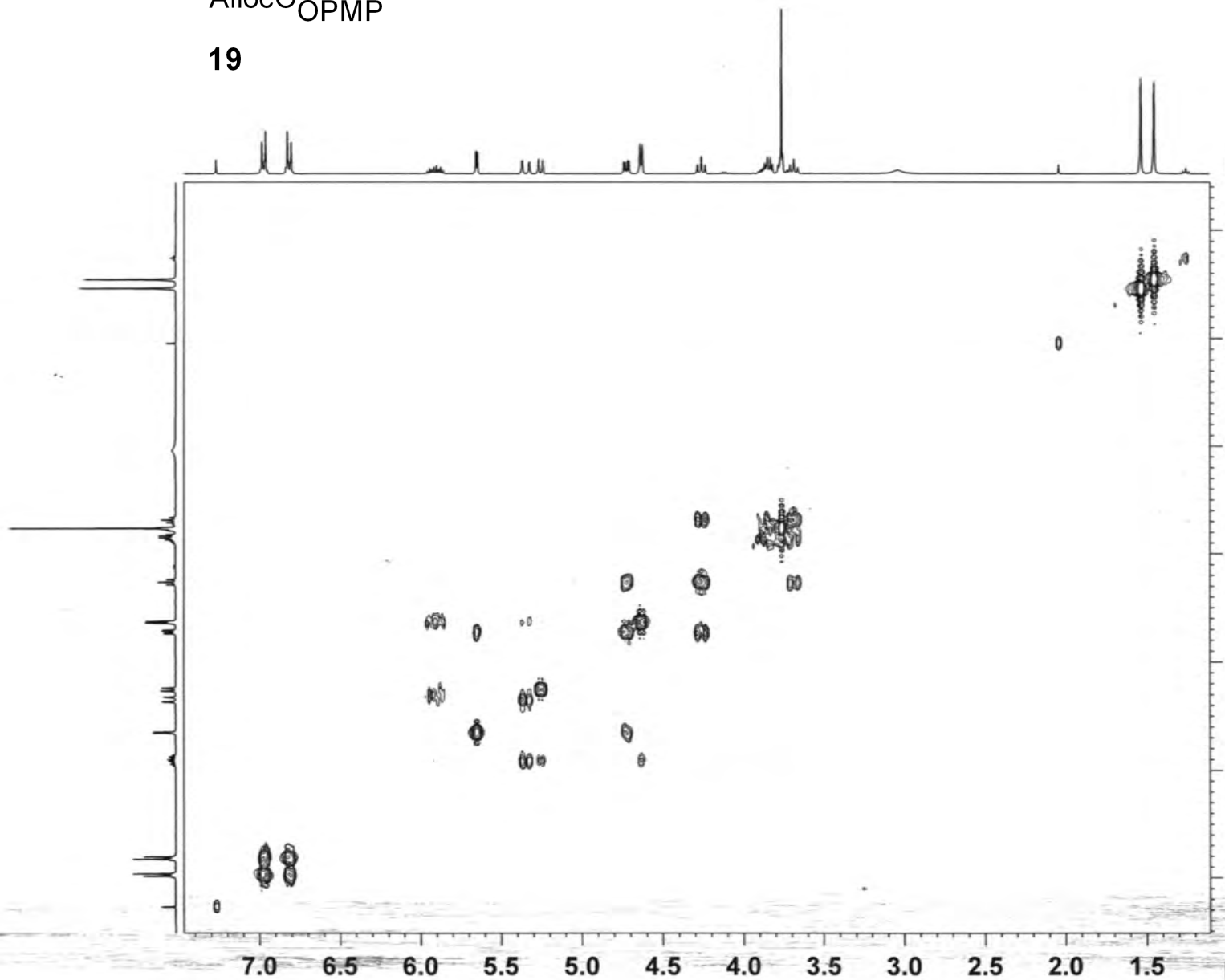
19



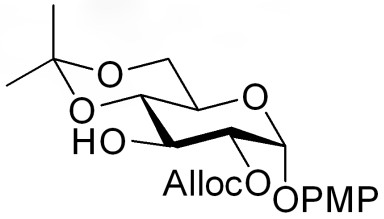


19

ZGH-Ipom-1-152-A-131001 COSY

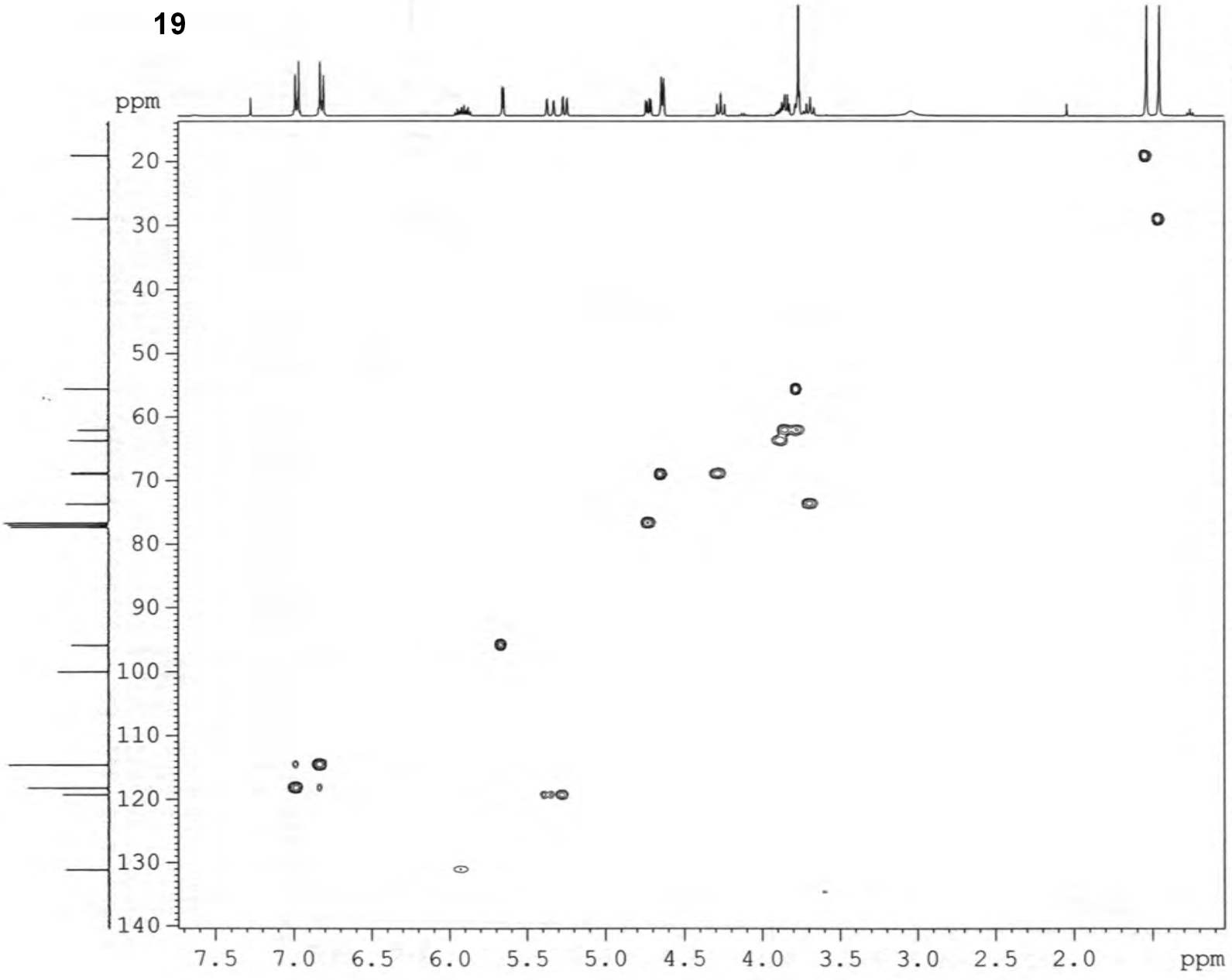


NAME	ZGH-Ipom-1-152-A-131001
EXPNO	3
PROCNO	1
Date_	20131001
Time	22.51
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	71.8
DW	93.600 usec
DE	6.50 usec
TE	293.6 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
========	CHANNEL f1 ========
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======	GRADIENT CHANNEL =====
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



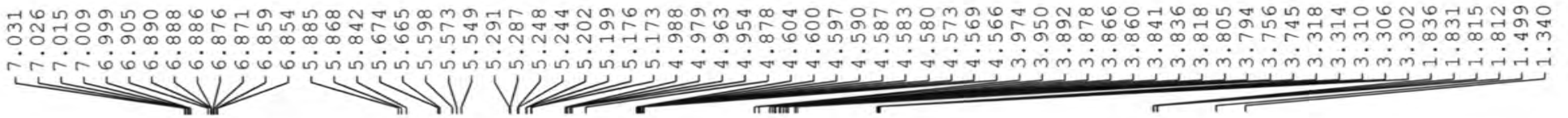
19

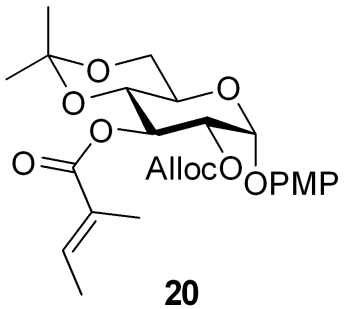
ZGH-Ipom-1-152-A-131001 HSQC



NAME	ZGH-Ipom-1-152-A-131001
EXPNO	41
PROCNO	1
Date_	20150313
Time	0.08
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	8
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.3 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	163
SFO1	100.6203 MHz
FIDRES	102.249489 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

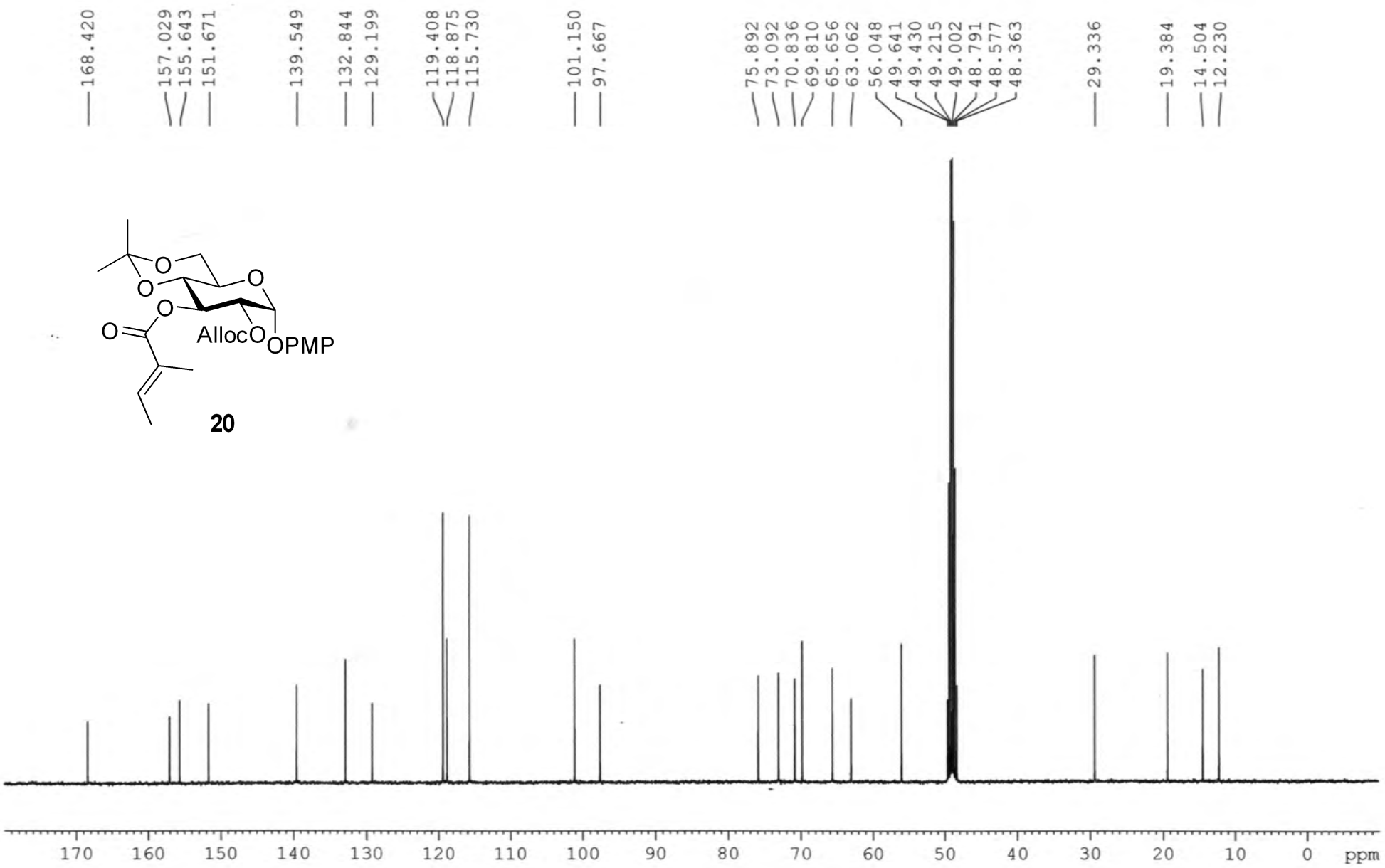
ZGH-Ipom-1-153-A-140203 1H in MeOD



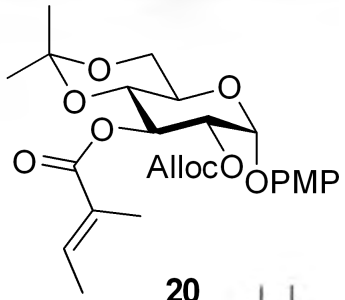


20

ZGH-Ipom-1-153-A-140203 13C in MeOD

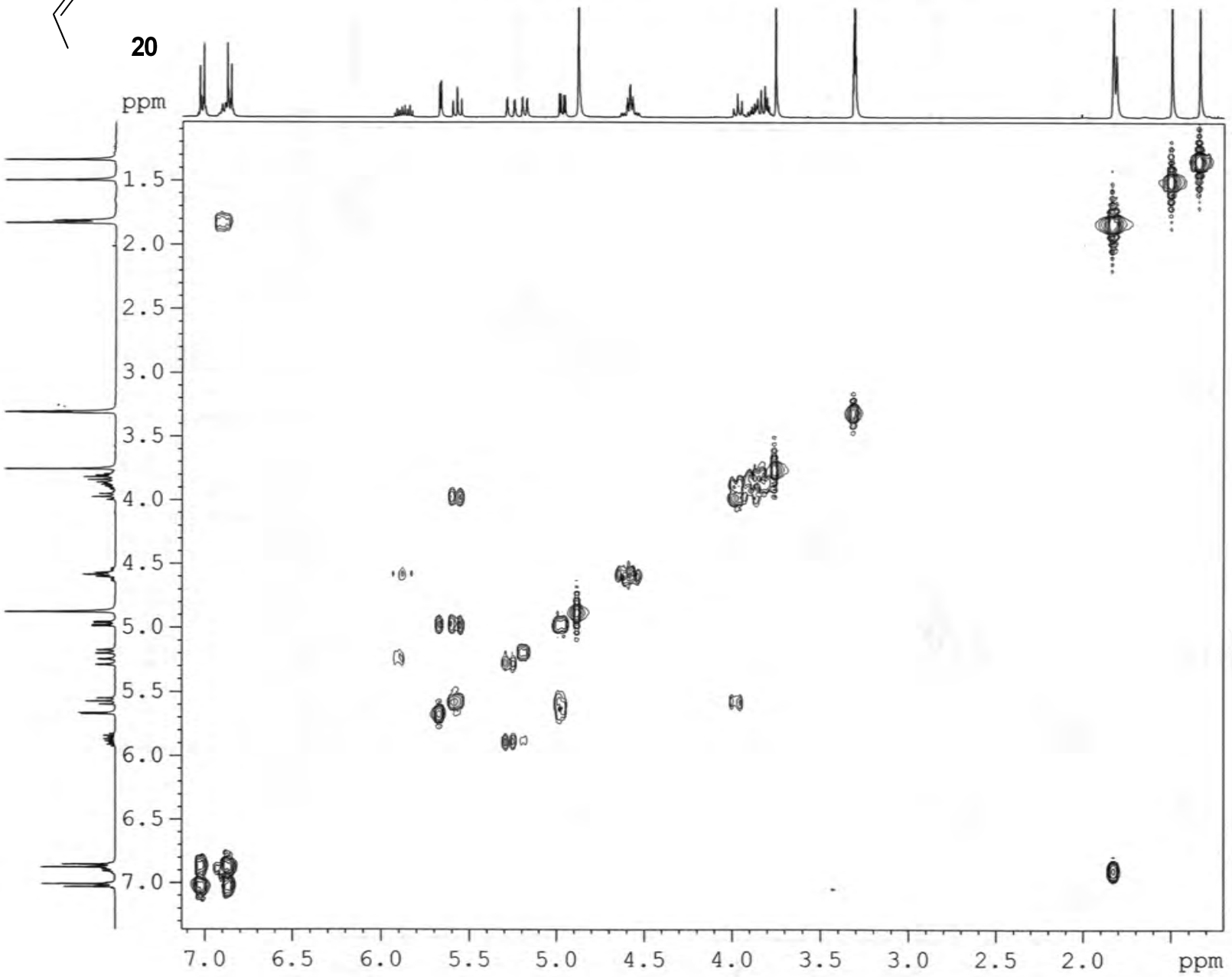


20

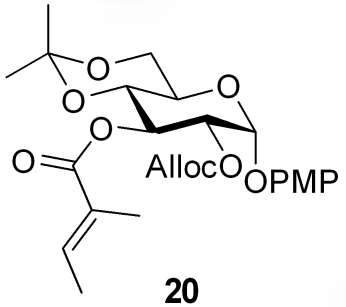


20

ZGH-Ipom-1-153-A-140203 COSY in MeOD

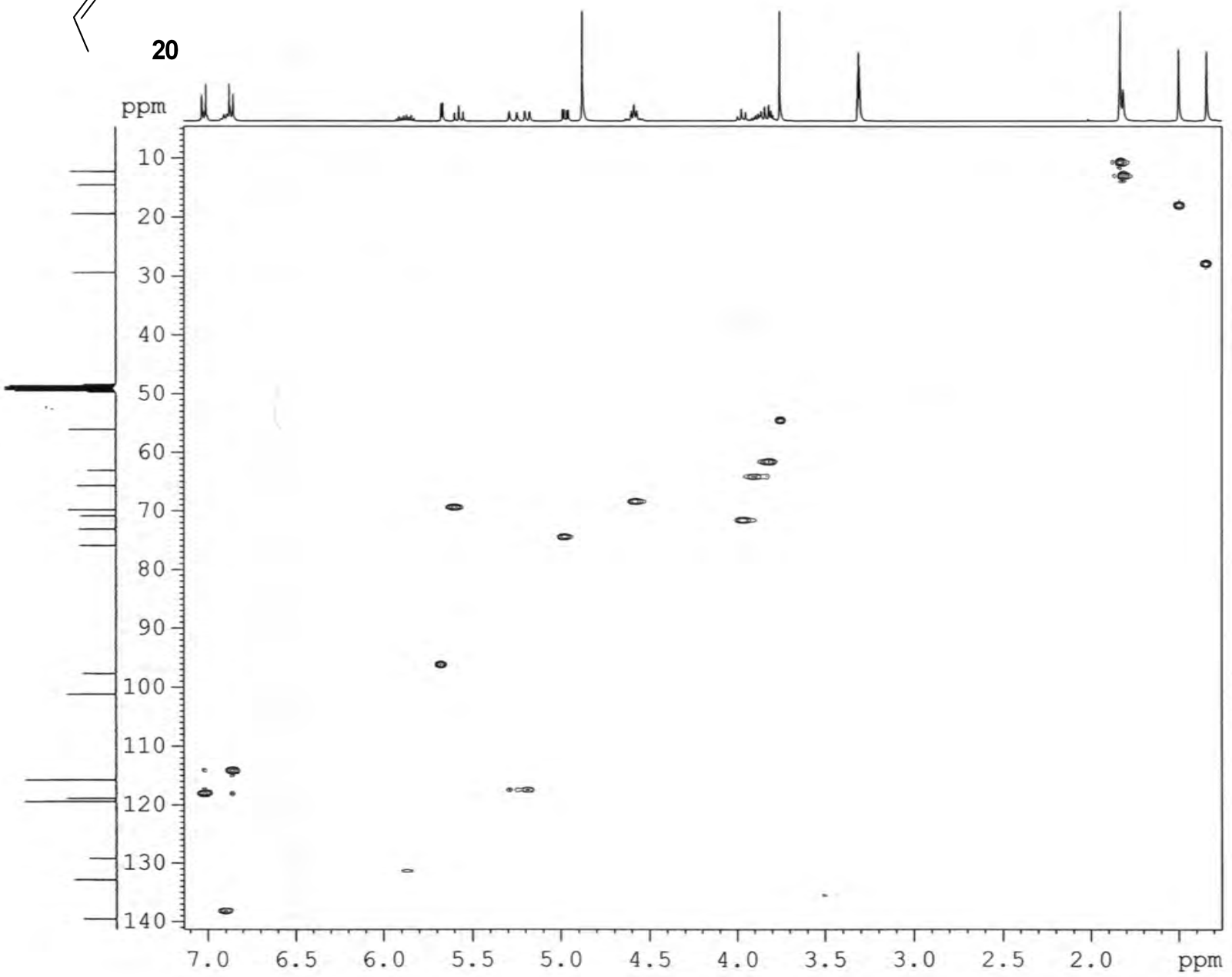


NAME	ZGH-Ipom-1-153-A-140203 check agai
EXPNO	2
PROCNO	1
Date_	20140512
Time	22.45
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	MeOD
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	362
DW	93.600 usec
DE	6.50 usec
TE	292.2 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



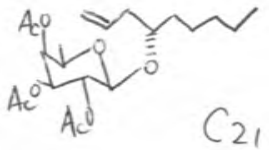
20

ZGH-Ipom-1-153-A-140203 HSQC in MeOD



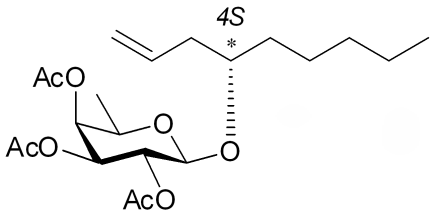
NAME	ZGH-Ipom-1-153-A-140203 check agair
EXPNO	4
PROCNO	1
Date_	20140512
Time_	23.30
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	MeOD
NS	2
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	293.0 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

ZGH-Ipom-1-175-A-131028 1H in CDCL3



$C_{21}H_{34}O_8$

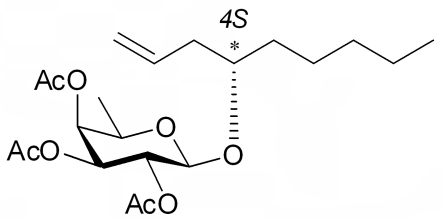
7.271
7.270
5.775
5.758
5.732
5.213
5.205
5.178
5.158
5.152
5.132
5.078
5.075
5.047
5.044
5.042
5.033
5.021
5.012
4.994
4.986
4.482
4.463
3.772
3.755
3.634
3.619
3.605
2.247
2.231
2.216
2.169
2.033
2.007
1.978
1.667
1.577
1.554
1.518
1.497
1.481
1.340
1.323
1.306
1.287
1.280
1.270
1.236
1.215
1.203
1.187
0.894
0.878
0.860



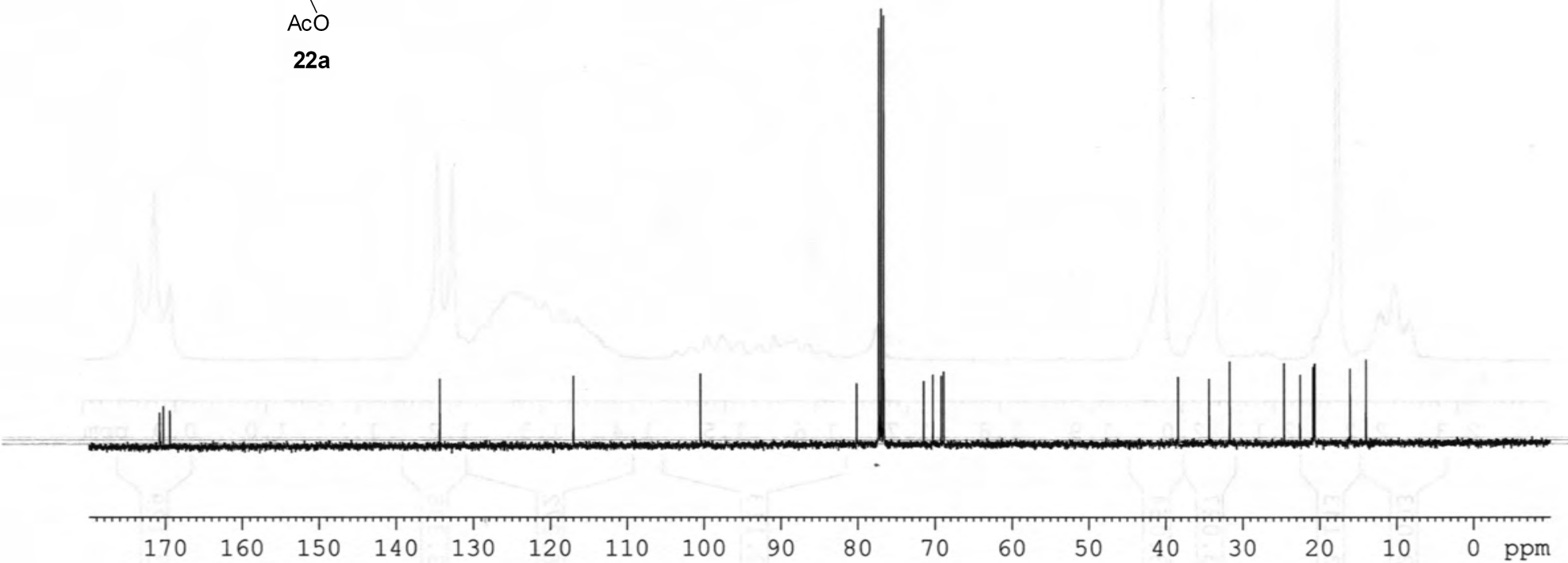
22a

ZGH-Ipom-1-175-A-131028 13C in CDCl3

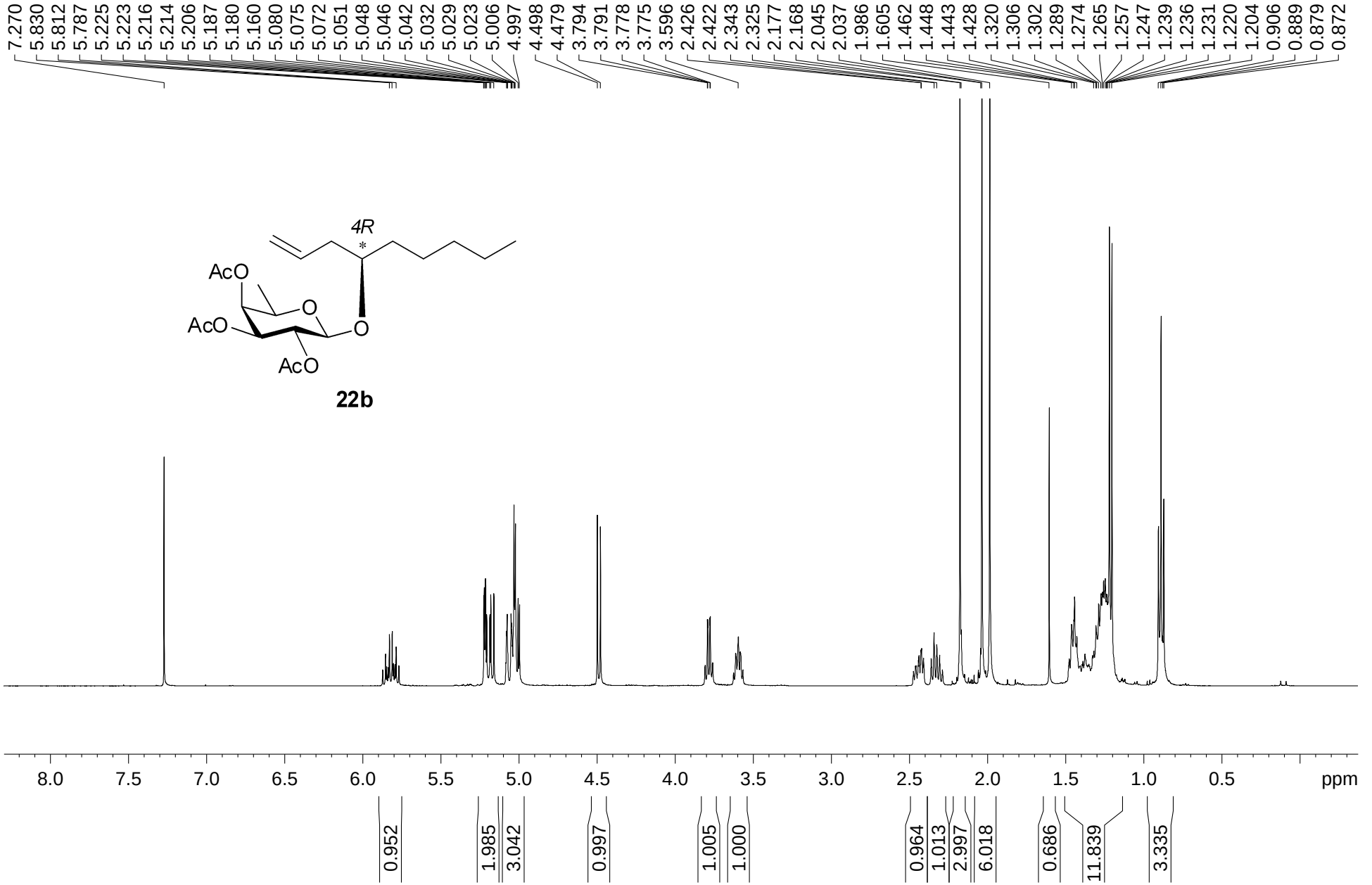
170.775
170.262
169.407
134.402
117.011
100.485
80.160
77.301
76.983
76.665
71.482
70.306
69.239
68.892
38.373
34.363
31.686
24.601
22.521
20.837
20.698
20.613
16.070
14.002

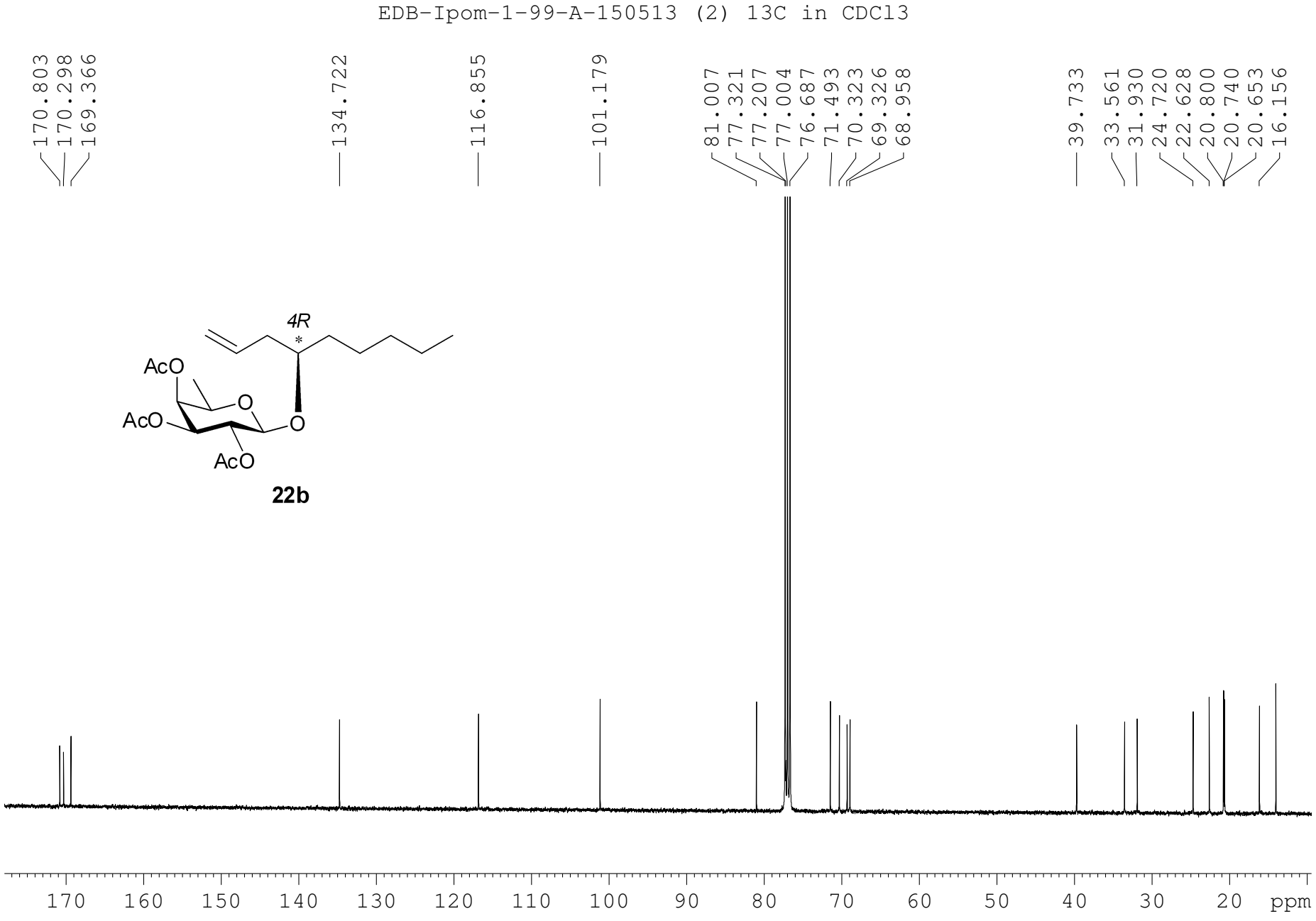


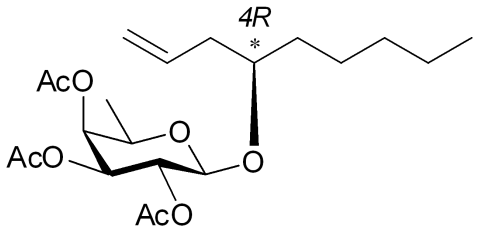
22a



EDB-Ipom-1-99-A-150513 (2) 1H in CDCL3

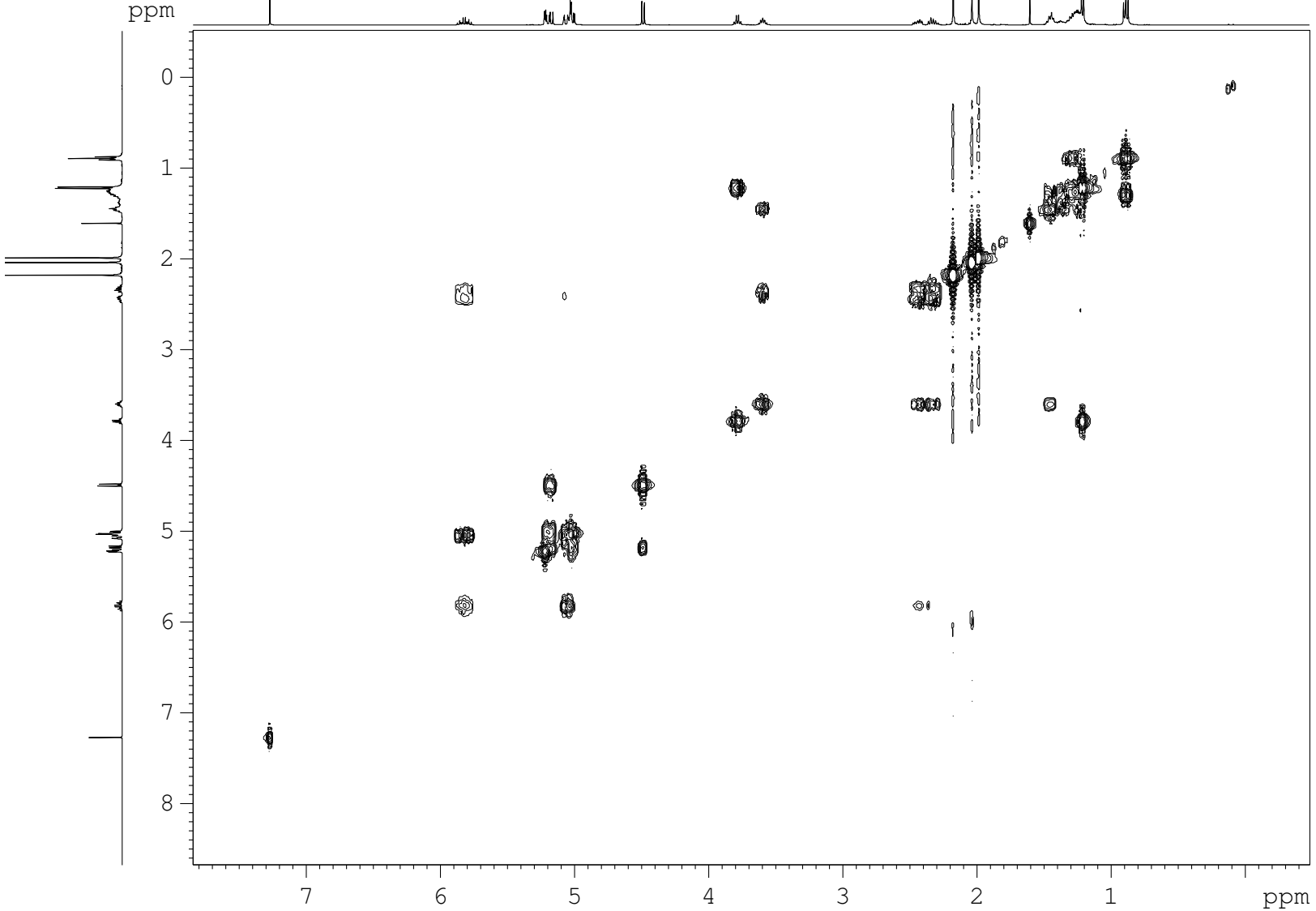



EDB-Ipom-1-99-A-150513 (2) 13C in CDCl3
170.803
170.298
169.366
134.722
116.855
101.179
81.007
77.321
77.207
77.004
76.687
71.493
70.323
69.326
68.958
39.733
33.561
31.930
24.720
22.628
20.800
20.740
20.653
16.156
4R
*
AcO
AcO
AcO
O
O
22b
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
ppm



22b

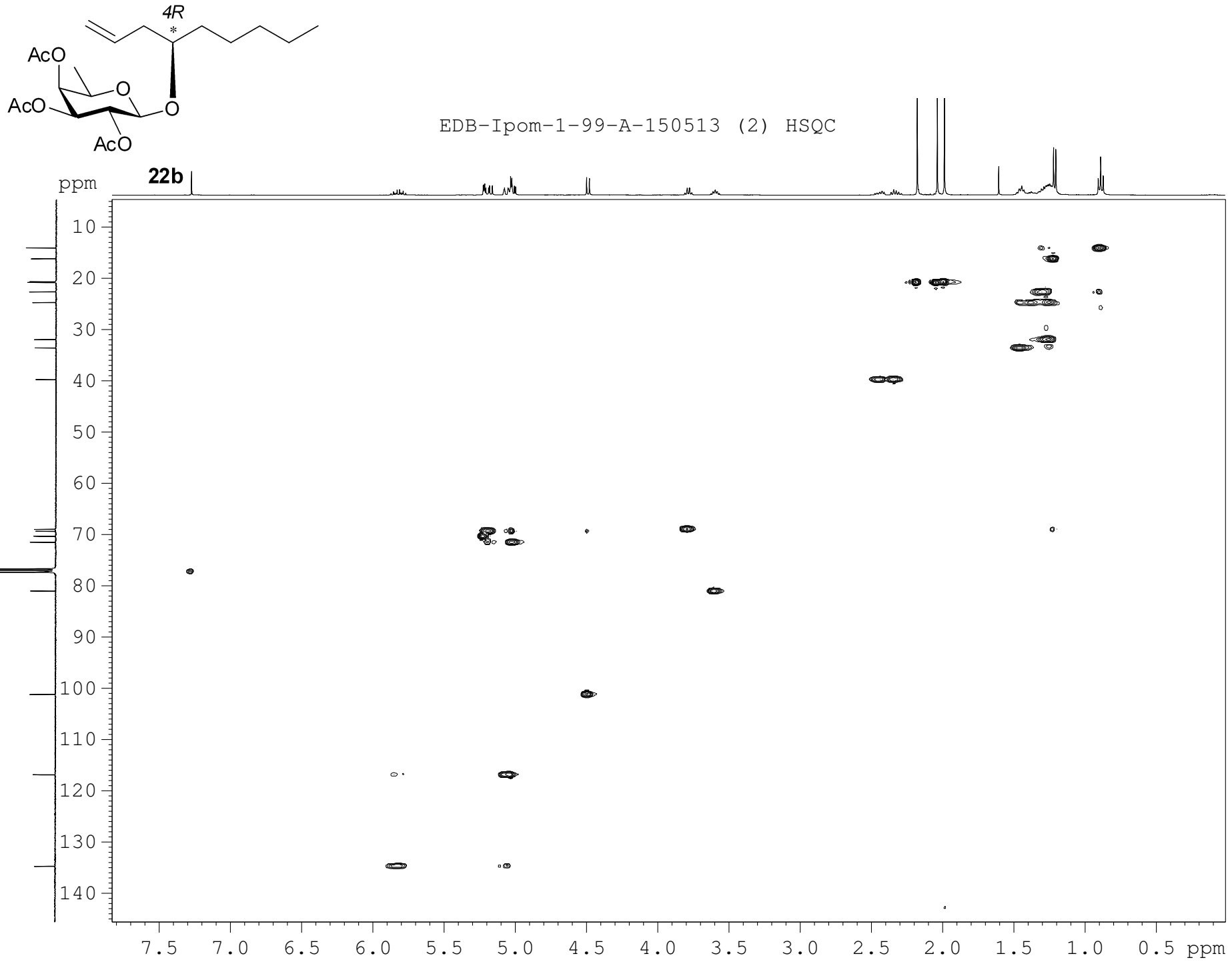
EDB-Ipom-1-99-A-150513 (2) COSY




```
NAME      EDB-Ipom-1-99-A-150513 (2
EXPNO                        2
PROCNO                       1
Date_                 20150623
Time                     23.33
INSTRUM                  spect
PROBHD    5 mm PABBO BB-
PULPROG              cosygpqf
TD                       2048
SOLVENT                  CDCl3
NS                          4
DS                          8
SWH                  5341.880 Hz
FIDRES               2.608340 Hz
AQ                   0.1917428 sec
RG                         203
DW                    93.600 usec
DE                     6.50 usec
TE                     292.5 K
D0                0.00000300 sec
D1                1.48689198 sec
D13               0.00000400 sec
D16               0.00020000 sec
IN0               0.00018720 sec

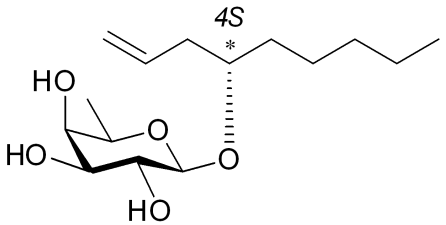
======== CHANNEL f1 ========
NUC1                        1H
P0                    10.00 usec
P1                    10.00 usec
PL1                    -3.50 dB
PL1W             31.17620277 W
SFO1             400.1324057 MHz

====== GRADIENT CHANNEL =====
GPNAM1               SINE.100
GPZ1                  10.00 %
P16                 1000.00 usec
ND0                         1
TD                        128
SFO1               400.1324 MHz
FIDRES              41.733440 Hz
SW                    13.350 ppm
FnMODE                     QF
SI                       1024
SF               400.1300040 MHz
WDW                      SINE
SSB                         0
LB                    0.00 Hz
GB                          0
PC                     1.00
SI                       1024
MC2                        QF
SF               400.1300033 MHz
WDW                      SINE
SSB                         0
LB                    0.00 Hz
GB                          0
```

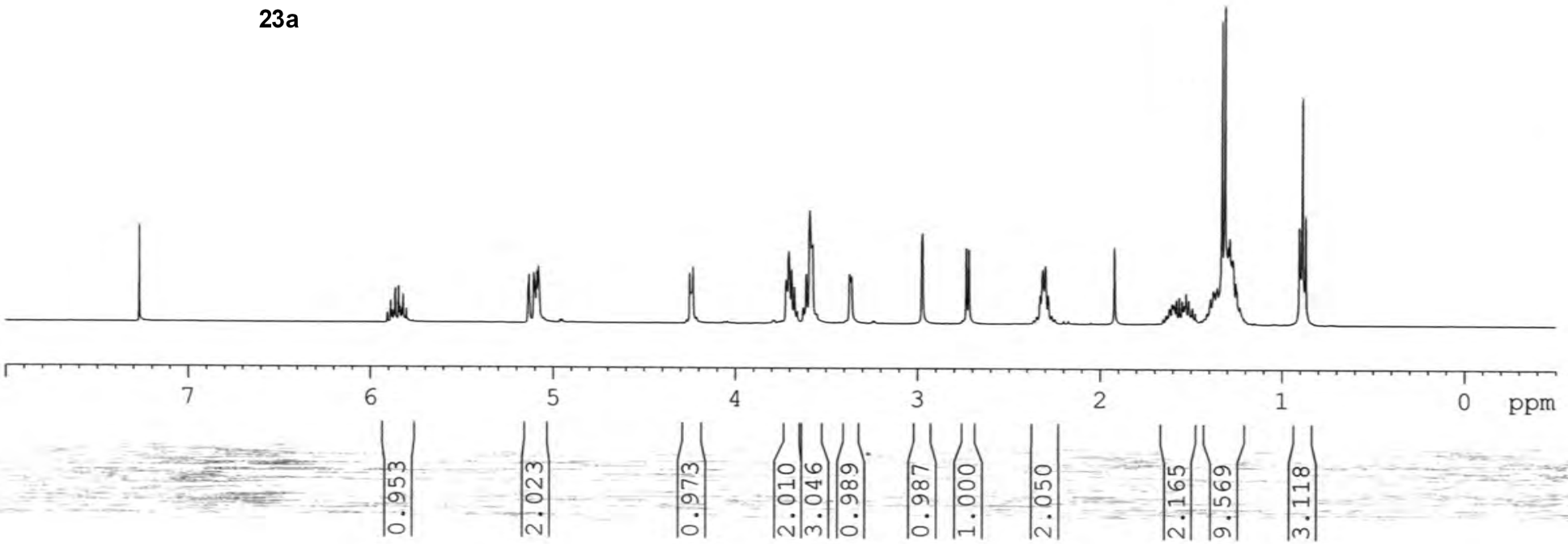

4R
*
AcO
AcO
AcO
O
O
EDB-Ipom-1-99-A-150513 (2) HSQC
22b
ppm
10
20
30
40
50
60
70
80
90
100
110
120
130
140
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5 ppm

ZGH-Ipom-1-176-A-131029 1H in CDCL3

7.270
5.888
5.863
5.845
5.838
5.820
5.135
5.131
5.105
5.103
5.100
5.088
5.080
4.249
4.230
3.719
3.716
3.705
3.690
3.675
3.625
3.609
3.591
3.579
3.575
3.371
3.359
2.973
2.733
2.719
2.328
2.314
2.312
2.300
2.284
1.921
1.619
1.615
1.605
1.599
1.595
1.589
1.581
1.565
1.550
1.542
1.535
1.527
1.512
1.493
1.393
1.377
1.370
1.362
1.355
1.329
1.313
1.293
1.286
1.275
1.269
1.254
1.247
1.230
0.904
0.897
0.887
0.869

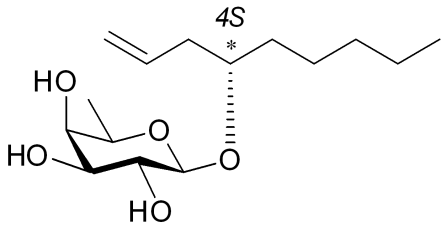


23a

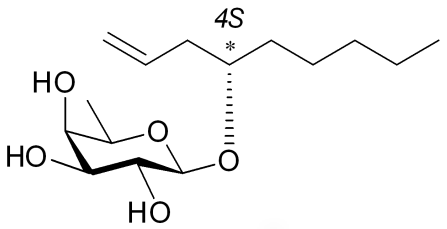


ZGH-Ipom-1-176-A-131029 Check 150316 13C in CDCl3

135.029
117.464
102.264
79.240
77.318
77.000
76.682
73.905
72.053
71.552
70.468
38.637
34.716
31.746
24.798
22.558
16.326
14.068

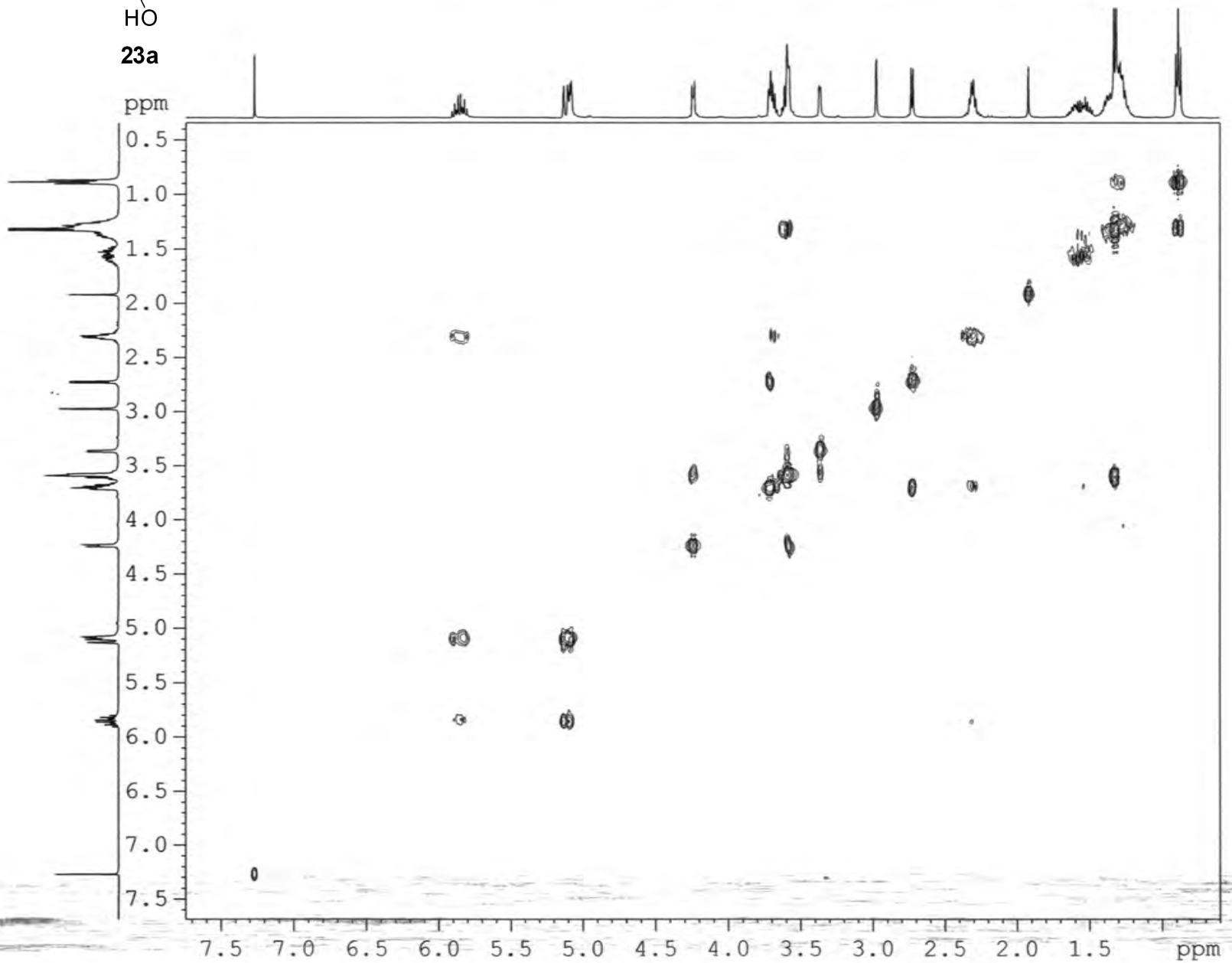


23a



23a

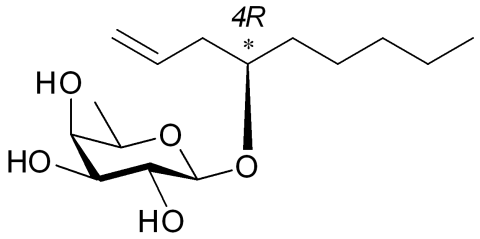
ZGH-Ipom-1-176-A-131029 Check 150316 COSY



NAME	ZGH-Ipom-1-176-A-131029
EXPNO	3
PROCNO	1
Date_	20150316
Time	11.12
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	161
DW	93.600 usec
DE	6.50 usec
TE	292.6 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

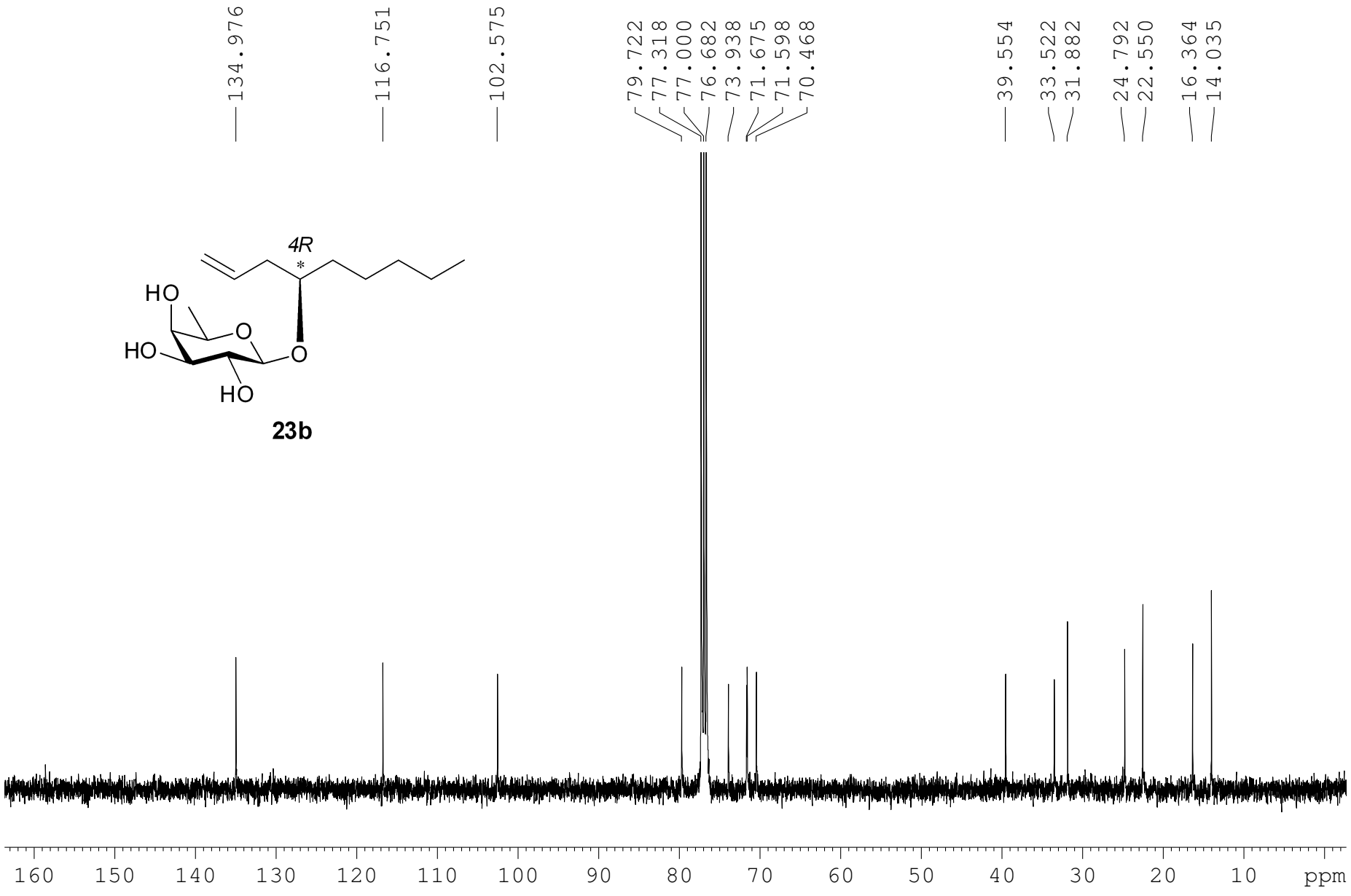
EDB-Ipom-1-101-A-150515 in CDCL3

7.271
5.880
5.854
5.837
5.811
5.088
5.084
5.050
5.045
5.041
5.024
5.019
4.262
4.244
4.244
3.714
3.699
3.684
3.669
3.648
3.623
3.604
3.587
3.570
3.409
3.244
2.407
2.393
2.390
2.380
2.377
2.363
2.346
1.528
1.523
1.513
1.504
1.489
1.406
1.398
1.388
1.368
1.343
1.322
1.306
1.288
1.283
1.277
1.260
0.923
0.902
0.885
0.867

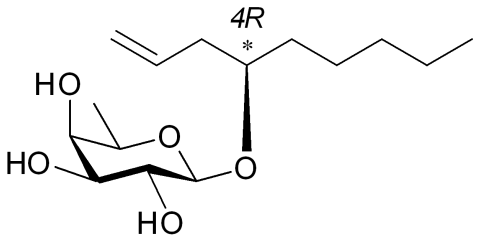


23b

EDB-Ipom-1-101-A-150515 13C in CDCl3

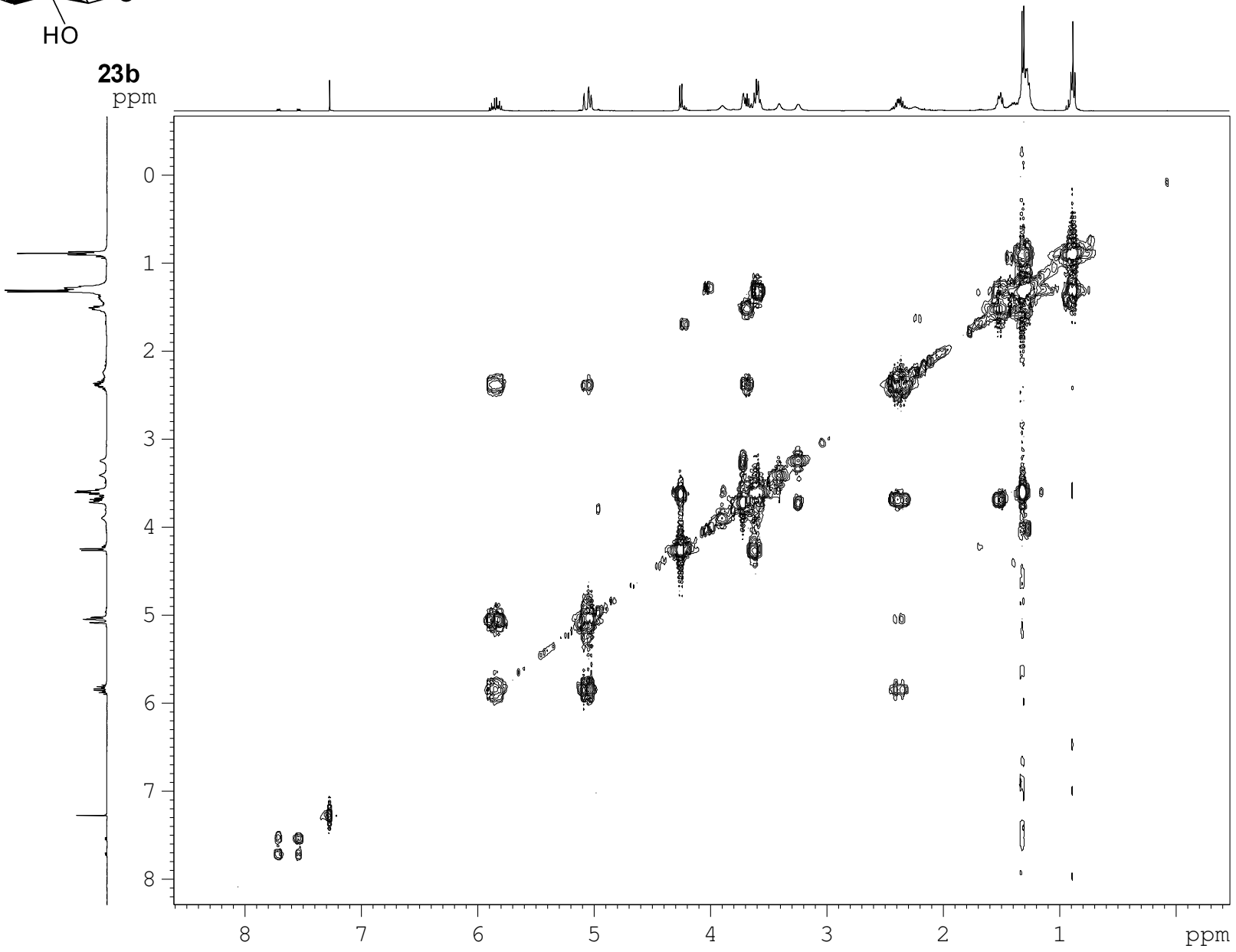


23b



EDB-Ipom-1-101-A-150515 COSY

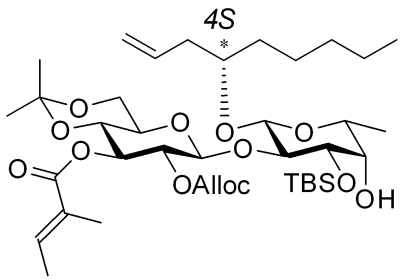
23b



NAME	EDB-Ipom-1-101-A-150515
EXPNO	5
PROCNO	1
Date_	20150621
Time	19.22
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	80.6
DW	93.600 usec
DE	6.50 usec
TE	292.3 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

ZGH-Ipom-2-24-A-150108 1H in CDCL3

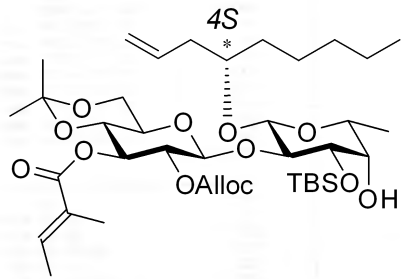
7.270 5.304 5.300 5.261 5.257 5.213 5.207 5.204 5.190 5.181 5.177 5.166 5.100 5.079 5.069 5.060 5.043 4.734 4.714 4.710 4.569 4.555 4.528 4.514 4.299 4.280 3.804 3.784 3.756 3.745 3.721 3.717 3.708 3.696 3.640 3.518 3.510 3.491 2.378 2.374 2.311 2.294 2.279 1.805 1.803 1.786 1.784 1.769 1.766 1.712 1.446 1.431 1.367 1.351 1.328 1.317 1.301 1.282 1.271 1.257 1.252 0.969 0.924 0.898 0.881 0.864 0.171 0.101



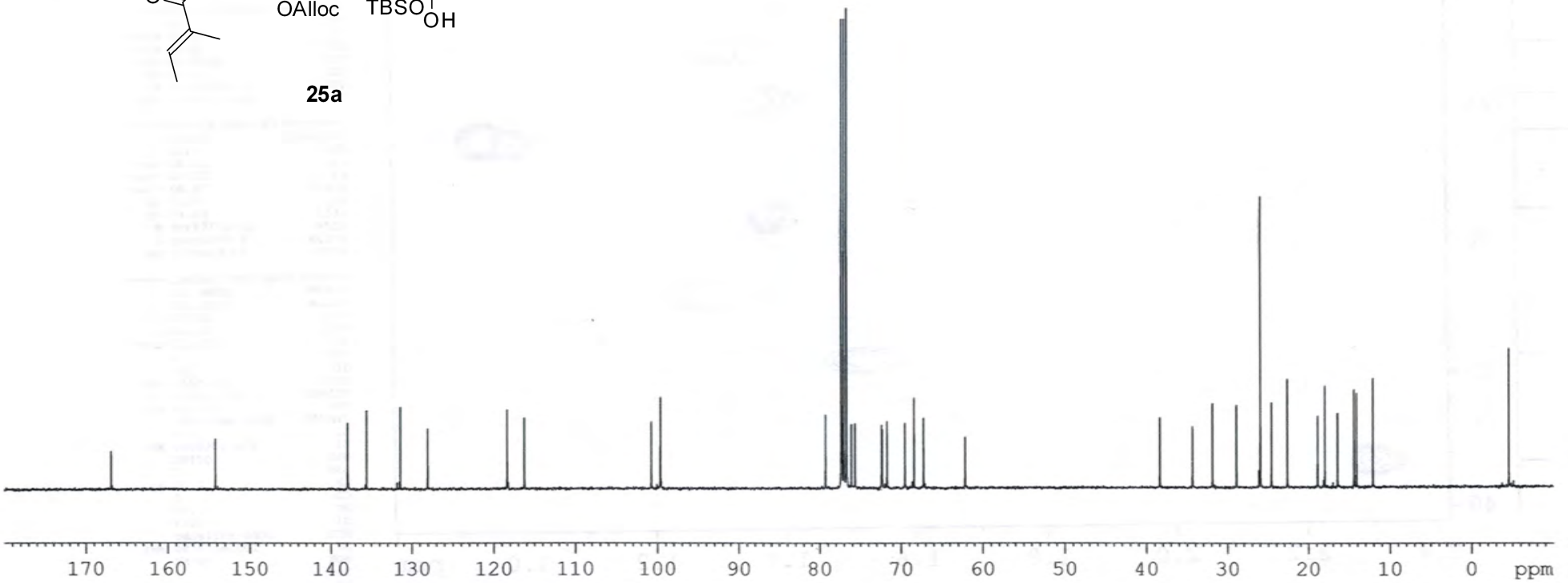
25a

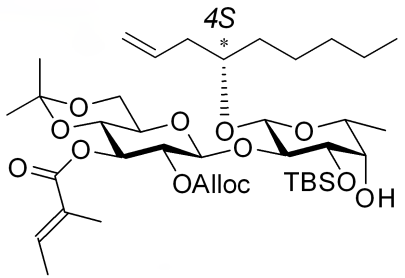
ZGH-Ipom-2-24-A-150108 13C in CDCl3

166.880
154.149
137.905
135.560
131.391
128.029
118.346
116.250
100.724
99.618
99.601
79.267
77.322
77.220
77.004
76.687
76.070
75.620
72.361
72.282
71.690
69.493
68.382
67.219
62.128
38.319
34.316
31.850
28.882
26.104
25.935
24.566
22.601
18.896
18.840
17.956
16.395
14.380
14.077
12.062
-4.582



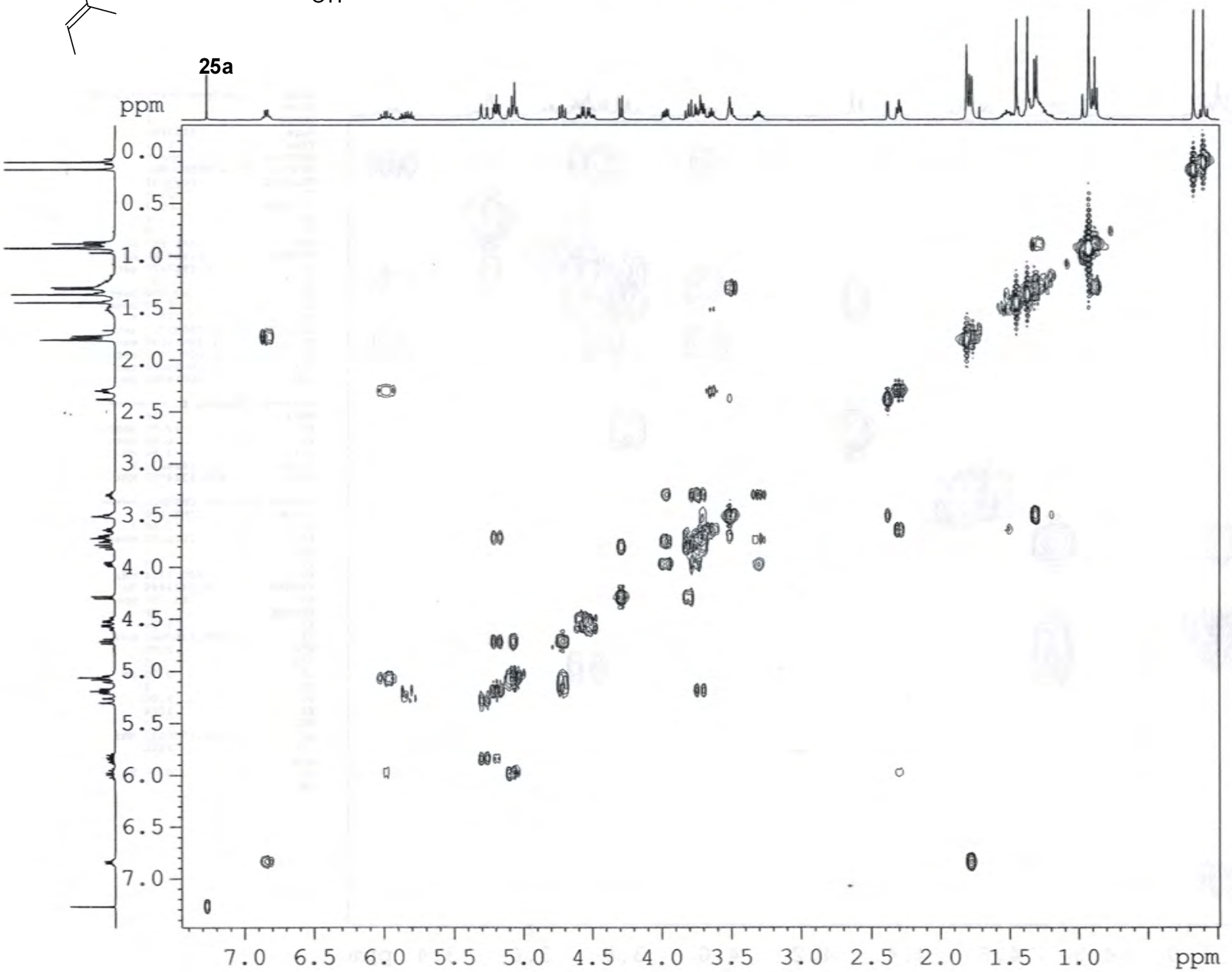
25a



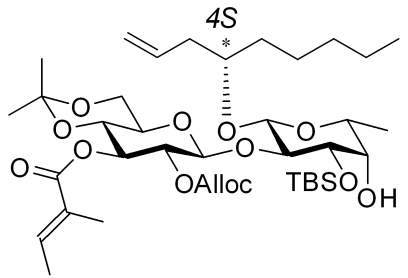


ZGH-Ipom-2-24-A-150108 COSY

25a

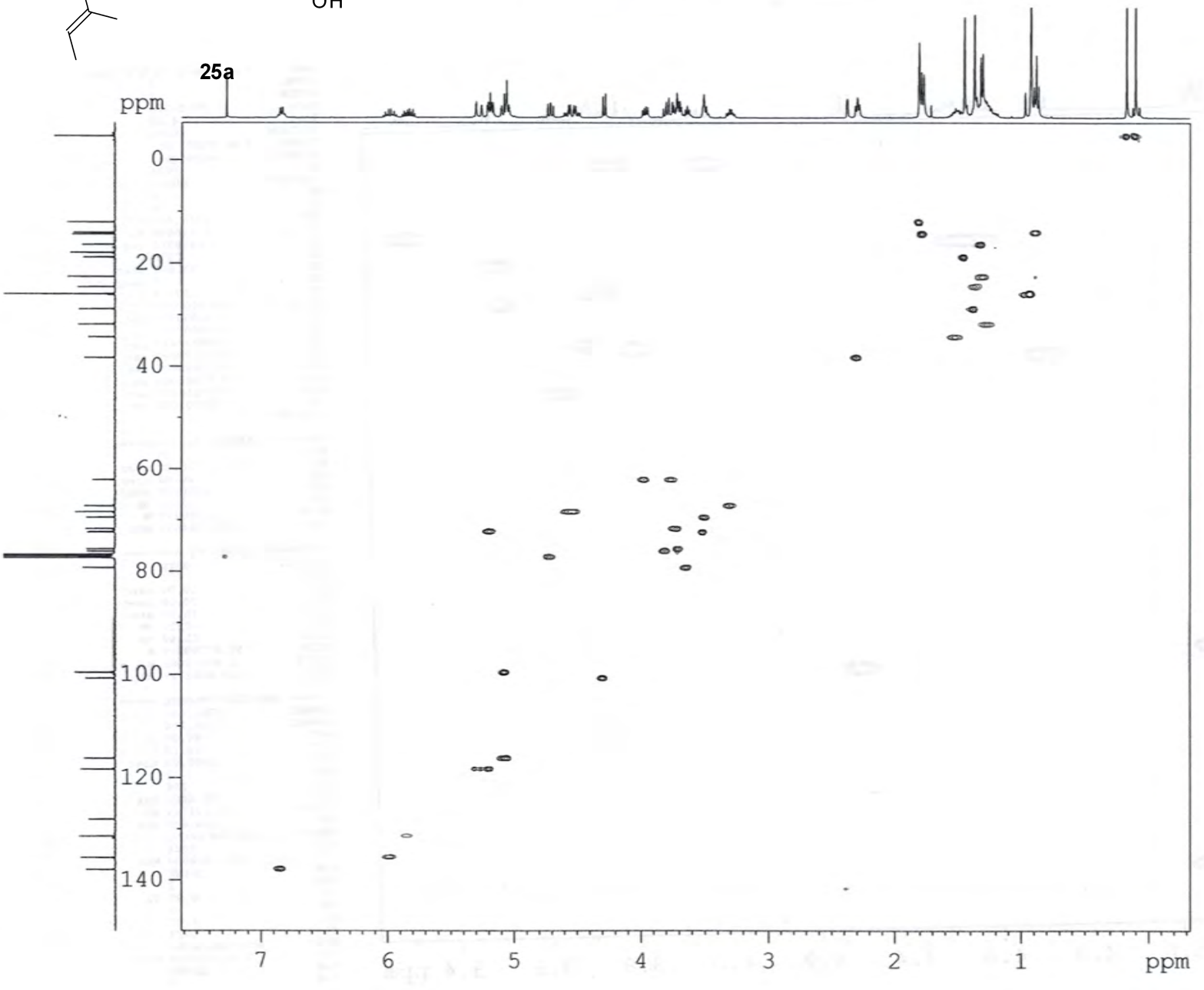


NAME	ZGH-Ipom-2-24-A-150108
EXPNO	2
PROCNO	1
Date_	20150109
Time_	2.21
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	57
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

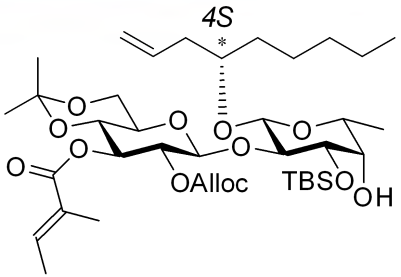


ZGH-Ipom-2-24-A-150108 HSQC

25a

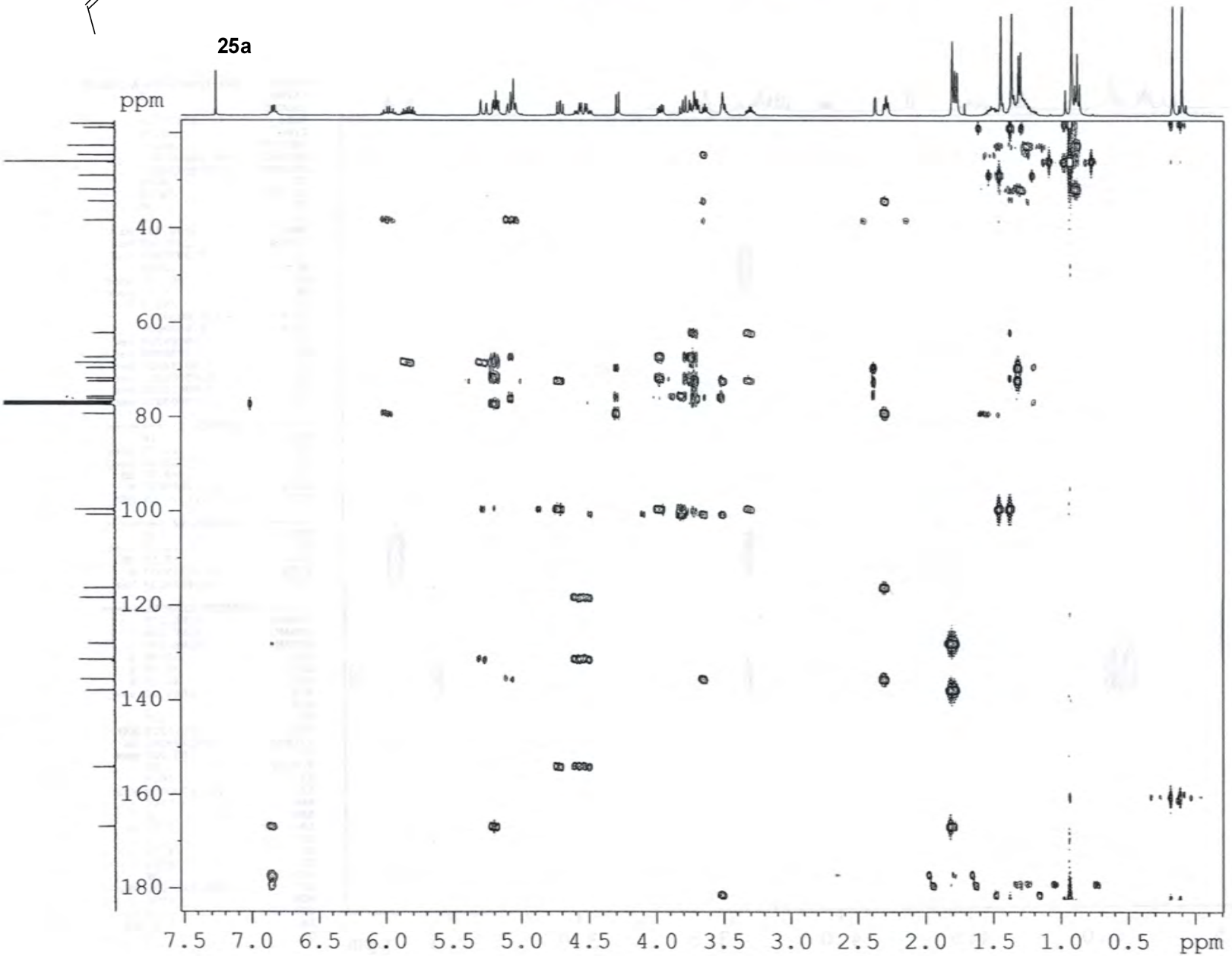


NAME	ZGH-Ipom-2-24-A-150108
EXPNO	4
PROCNO	1
Date_	20150109
Time	4.28
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	8
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.9 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0



25a

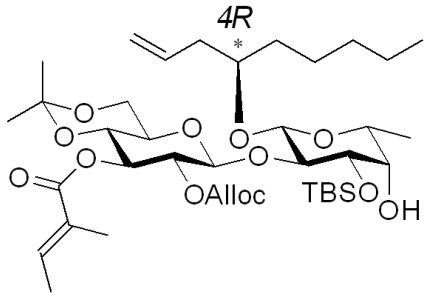
ZGH-Ipom-2-24-A-150108 HMBC in CDCL3



NAME	ZGH-Ipom-2-24-A-150108
EXPNO	5
PROCNO	1
Date_	20150109
Time_	5.24
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDCl3
NS	30
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
========	CHANNEL f1 ========
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
========	CHANNEL f2 ========
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
======	GRADIENT CHANNEL =====
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	128
SFO1	100.6228 MHz
FIDRES	129.709091 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

EDB-Ipom-1-111-A-150605 in CDCL3

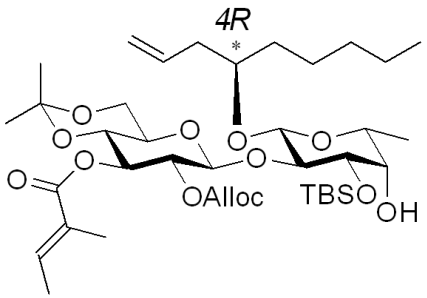
7.270
5.851
5.308
5.305
5.265
5.216
5.211
5.208
5.193
5.185
5.182
5.169
5.064
5.044
5.020
4.718
4.714
4.293
4.274
3.827
3.808
3.743
3.723
3.716
3.700
3.692
3.676
3.525
3.521
3.510
2.368
2.363
1.808
1.792
1.774
1.663
1.493
1.482
1.471
1.460
1.443
1.413
1.394
1.374
1.328
1.312
0.950
0.933
0.916
0.887
0.179
0.108



25b

EDB-Ipom-1-111-A-150605 13C in CDCl3

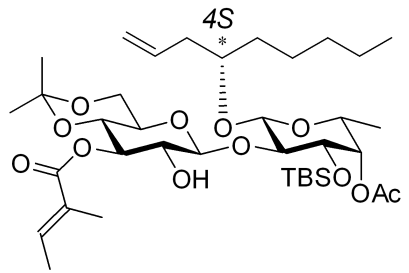
166.848
154.193
137.923
135.212
131.417
128.046
118.319
116.525
101.117
99.606
79.941
77.209
75.784
75.724
72.358
72.260
71.833
69.493
68.367
67.145
62.178
39.405
33.447
32.262
28.897
25.962
24.720
22.867
18.793
17.967
16.471
14.394
14.208
12.027
-4.525



25b

170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

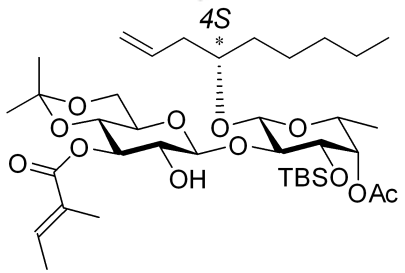
ZGH-Ipom-1-169-A 1H in CDCL3



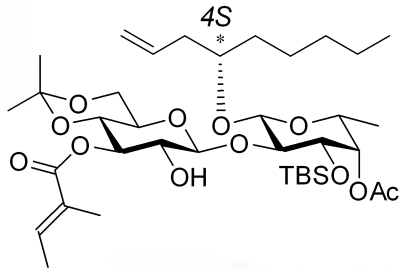
26a

ZGH-Ipom-1-169-A 13C in CDCl3

170.779
167.529
137.253
134.570
128.409
116.906
104.578
101.378
99.573
79.120
79.017
77.321
77.207
77.003
76.686
75.384
72.804
72.682
72.648
71.622
68.754
68.286
62.171
38.068
33.951
31.788
28.931
25.765
24.297
22.572
20.860
18.869
17.802
16.423
14.313
14.045
12.087
-4.508
-4.577

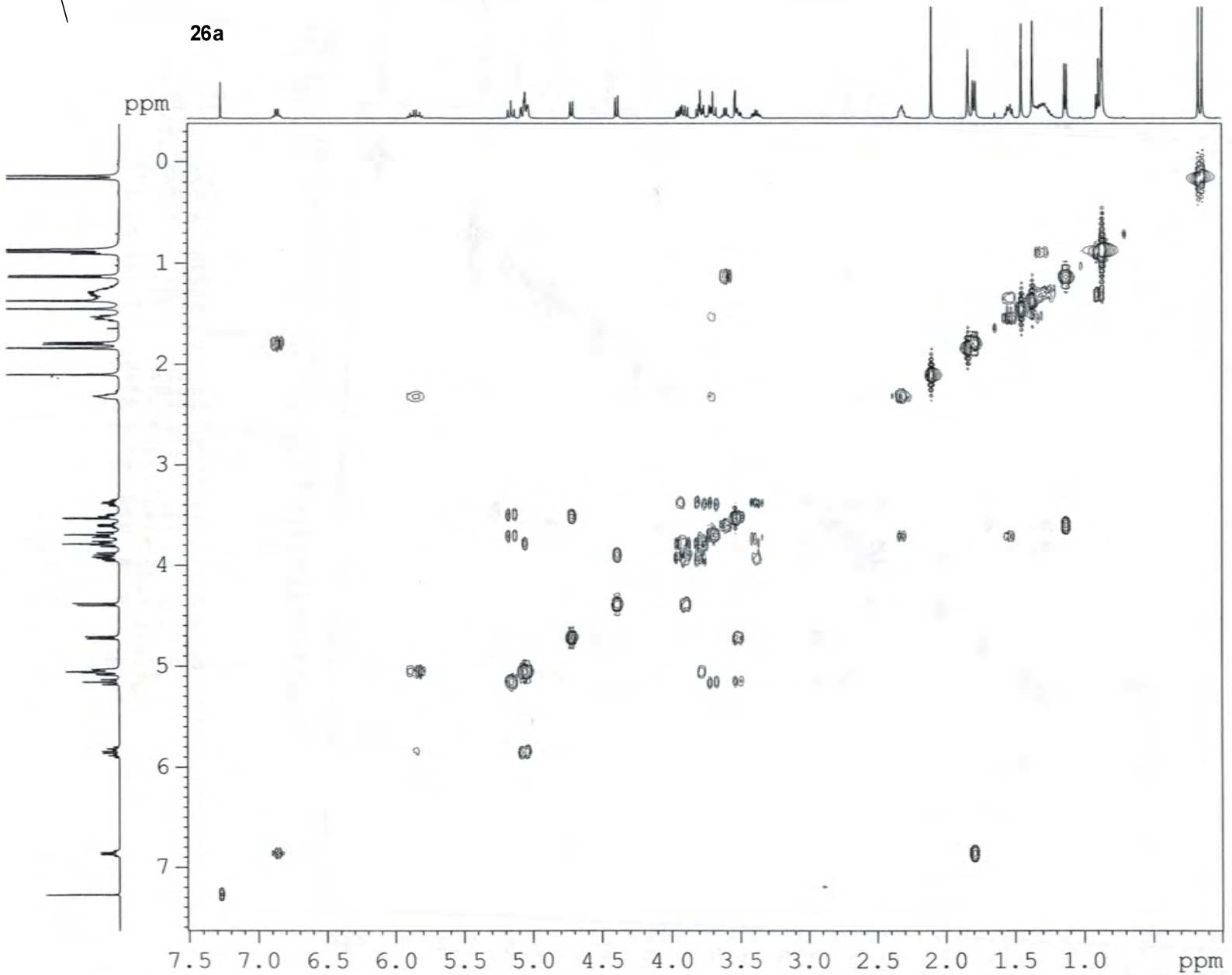


26a

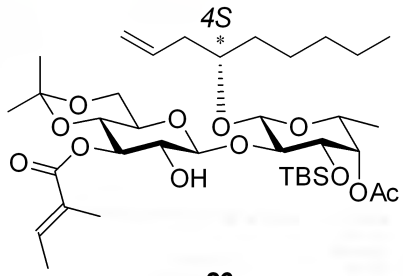


26a

ZGH-Ipom-1-169-A-150130 COSY

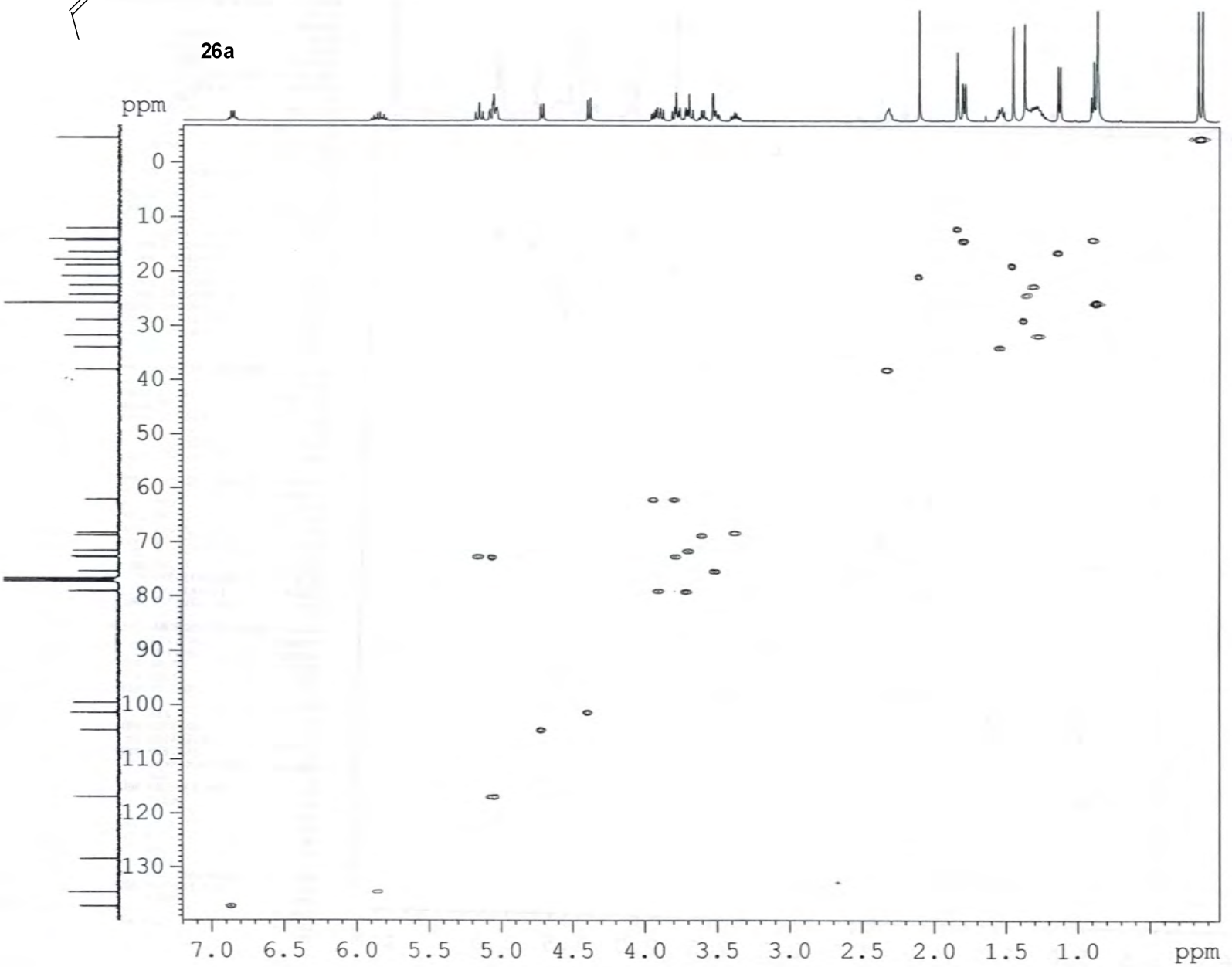


NAME	ZGH-Ipom-1-169-A
EXPNO	2
PROCNO	1
Date_	20150131
Time	11.58
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	4
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	80.6
DW	93.600 usec
DE	6.50 usec
TE	292.8 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
========	CHANNEL f1 ========
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======	GRADIENT CHANNEL =====
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



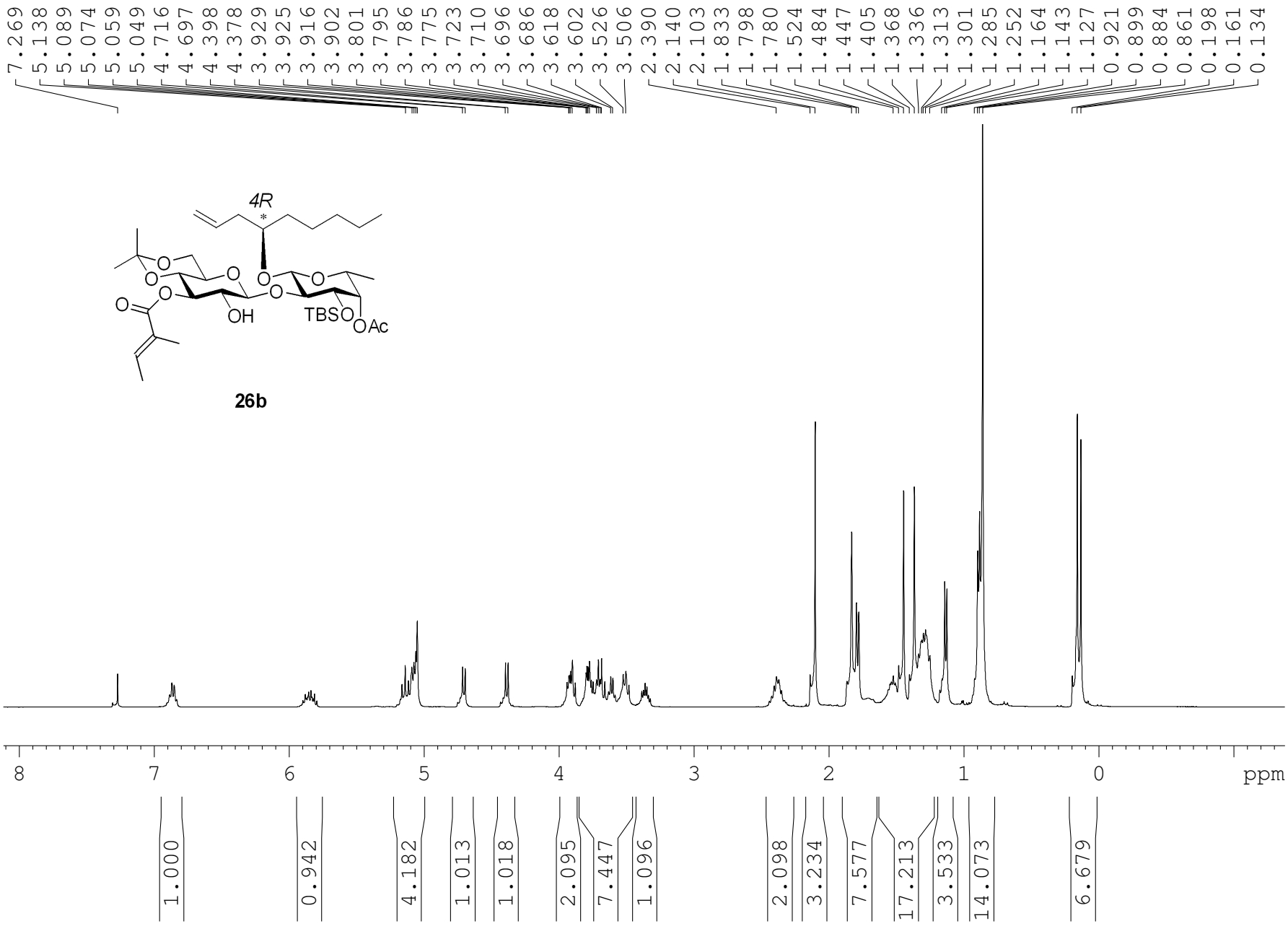
26a

ZGH-Ipom-1-169-A-150130 HSQC



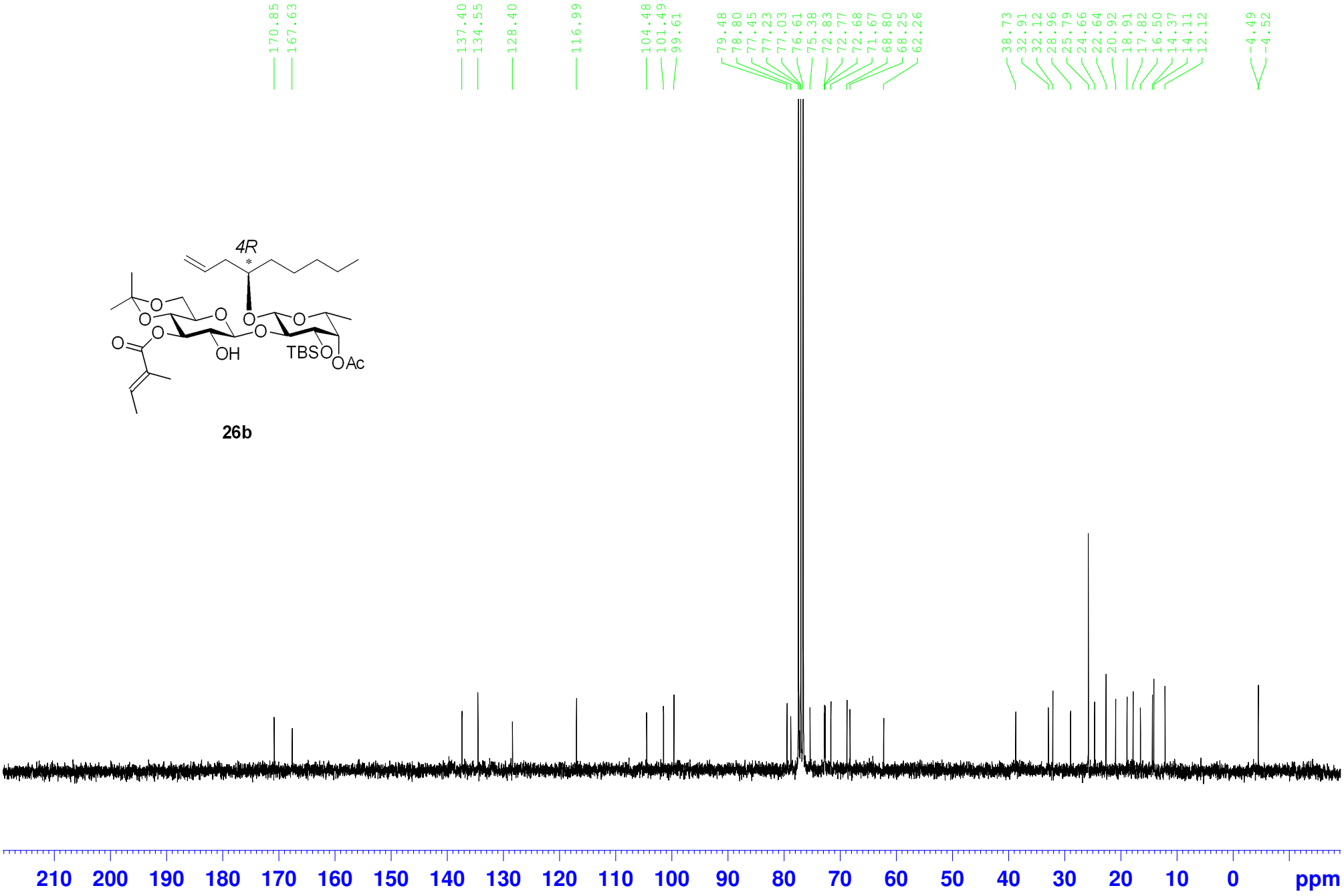
NAME	ZGH-Ipom-1-169-A	
EXPNO	4	
PROCNO	1	
Date_	20150131	
Time	13.10	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	hsqcetgpsi	
TD	1024	
SOLVENT	CDCl3	
NS	4	
DS	16	
SWH	5341.880	Hz
FIDRES	5.216680	Hz
AQ	0.0958964	sec
RG	2050	
DW	93.600	usec
DE	6.50	usec
TE	293.4	K
CNST2	145.0000000	
D0	0.00000300	sec
D1	1.50000000	sec
D4	0.00172414	sec
D11	0.03000000	sec
D13	0.00000400	sec
D16	0.00020000	sec
D24	0.00110000	sec
IN0	0.00003000	sec
ZGOPTNS		
======== CHANNEL f1 ========		
NUC1	1H	
P1	10.00	usec
P2	20.00	usec
P28	1000.00	usec
PL1	-3.50	dB
PL1W	31.17620277	W
SFO1	400.1324057	MHz
======== CHANNEL f2 ========		
CPDPRG2	garp	
NUC2	13C	
P3	10.00	usec
P4	20.00	usec
PCPD2	75.00	usec
PL2	-2.10	dB
PL12	15.40	dB
PL2W	58.37759399	W
PL12W	1.03811681	W
SFO2	100.6202727	MHz
====== GRADIENT CHANNEL =====		
GPNAM1	SINE.100	
GPNAM2	SINE.100	
GPZ1	80.00	%
GPZ2	20.10	%
P16	1000.00	usec
ND0	2	
TD	256	
SFO1	100.6203	MHz
FIDRES	65.104164	Hz
SW	165.639	ppm
FnMODE	Echo-Antiecho	
SI	1024	
SF	400.1300000	MHz
WDW	QSINE	
SSB	2	
LB	0.00	Hz
GB	0	
PC	1.00	
SI	1024	
MC2	echo-antiecho	
SF	100.6127690	MHz
WDW	QSINE	
SSB	2	
LB	0.00	Hz
GB	0	

EDB-Ipom-1-28-A-recovered in CDCL3



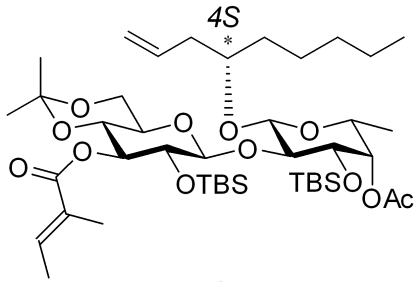
26b

EDB-Ipom-1-28-A-140722 13C in CDCl3 300 MHz



26b

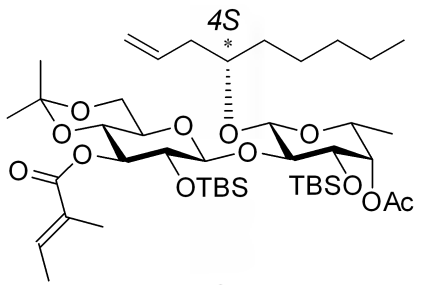
ZGH-Ipom-1-170-A-140226 1H in CDCL3



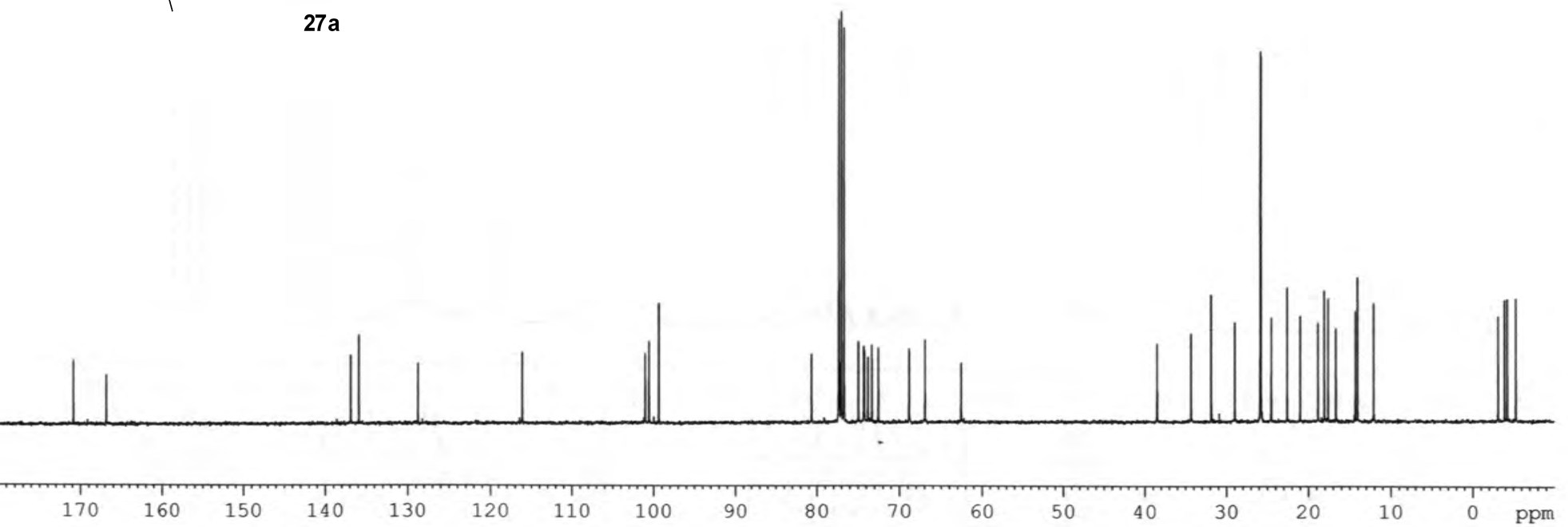
27a

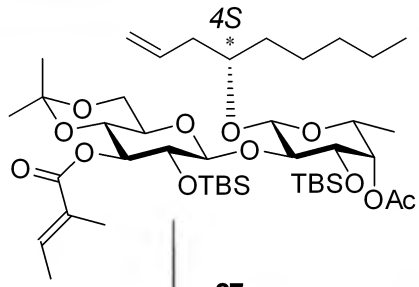
ZGH-Ipom-1-170-A-140226

170.875
166.810
136.852
135.881
128.713
116.084
100.991
100.532
99.327
80.640
77.319
77.203
77.001
76.683
74.923
74.259
74.179
73.769
73.301
72.498
68.802
66.899
62.508
38.463
34.286
31.839
28.942
25.823
25.754
24.488
22.576
20.991
18.812
18.060
17.602
16.657
14.286
14.010
12.079
-3.147
-3.947
-4.275



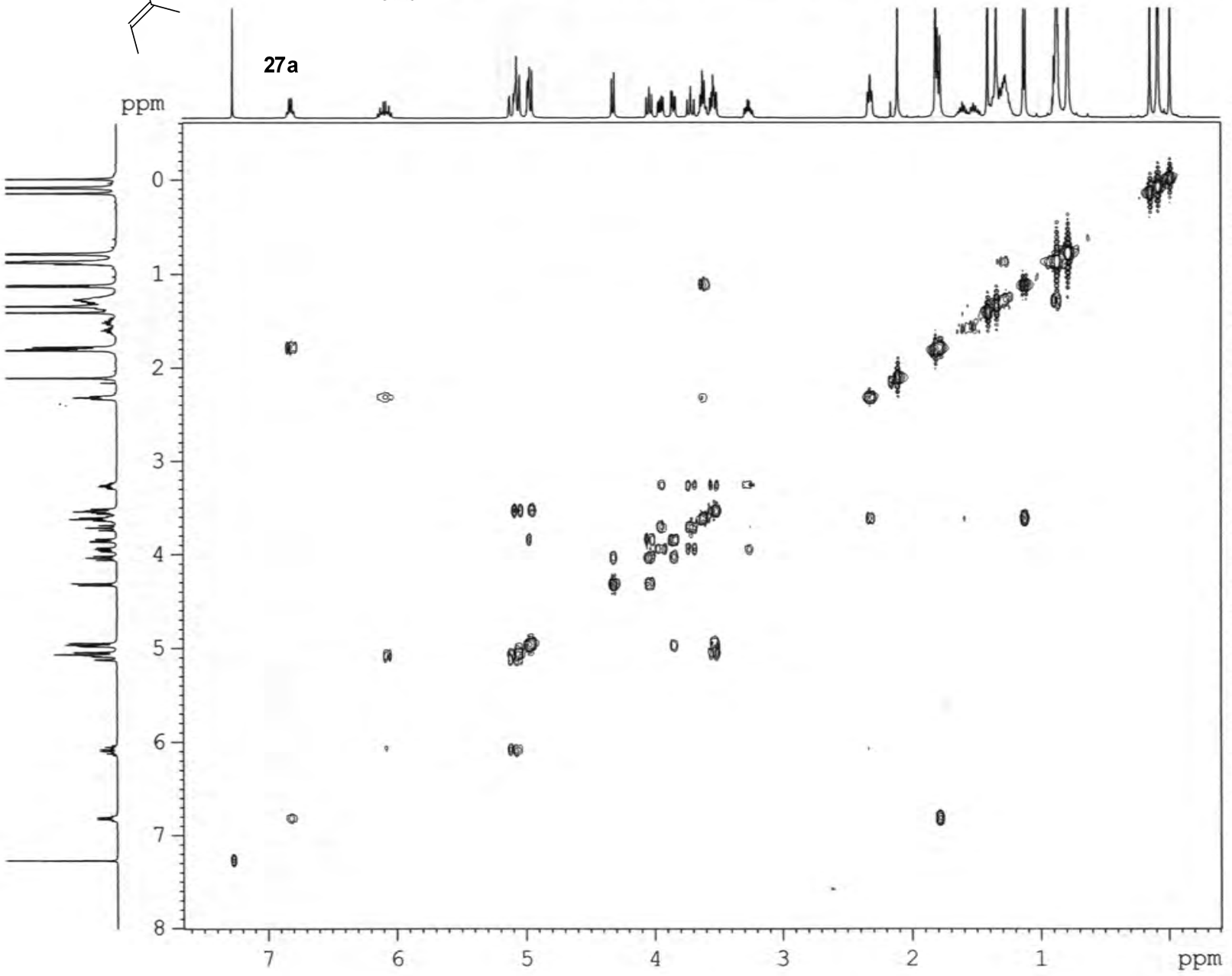
27a



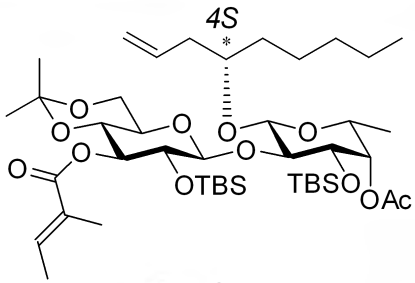


ZGH-Ipom-1-170-A-140226 COSY

27a

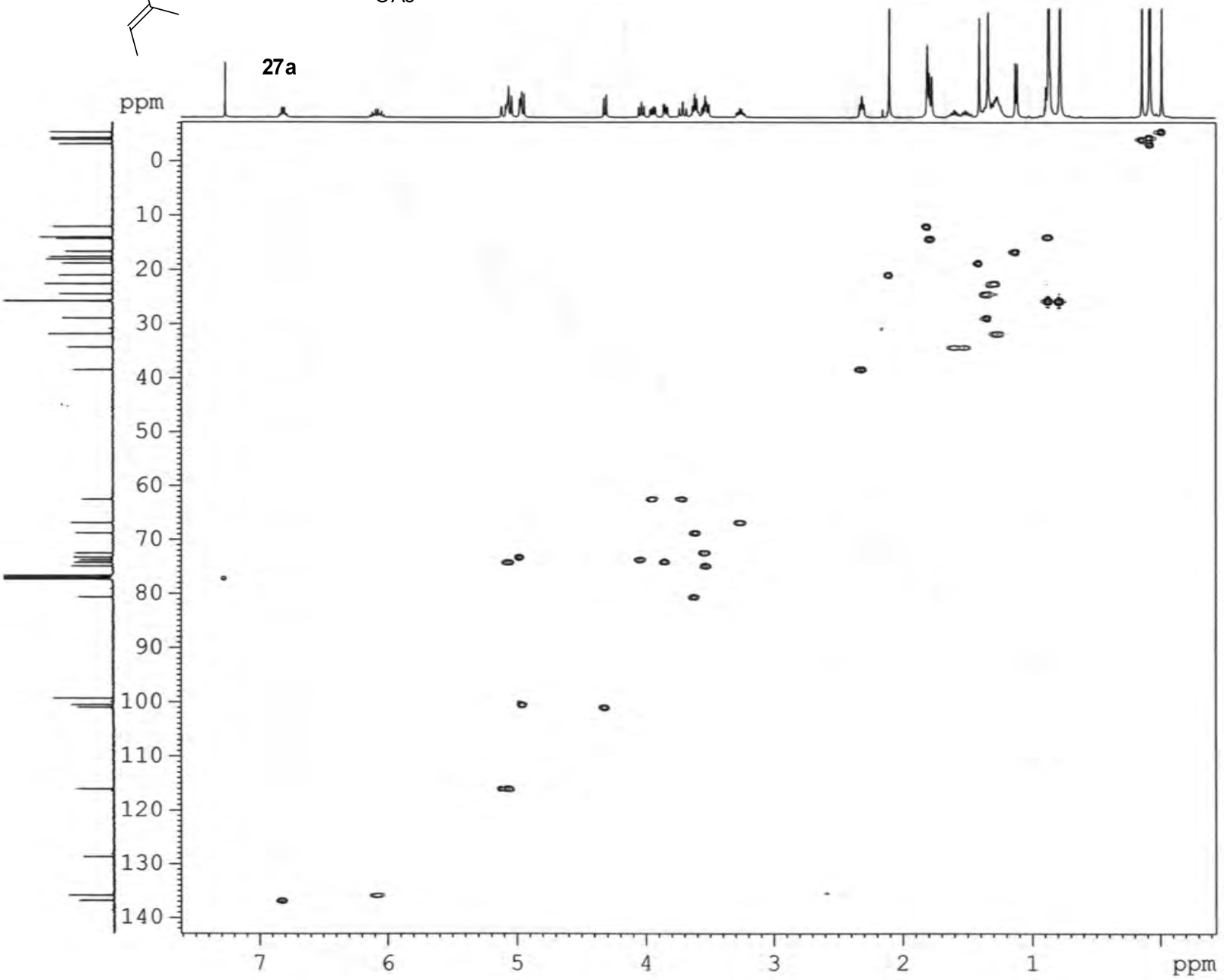


NAME	ZGH-Ipom-1-170-A-140226
EXPNO	3
PROCNO	1
Date_	20140302
Time	22.32
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	28.5
DW	93.600 usec
DE	6.50 usec
TE	292.8 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

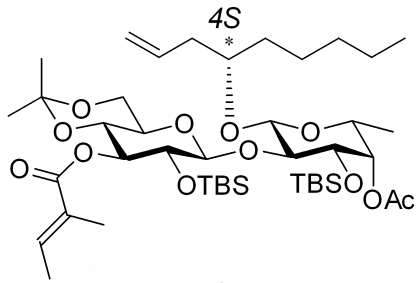


27a

ZGH-Ipom-1-170-A-140226 HSQC

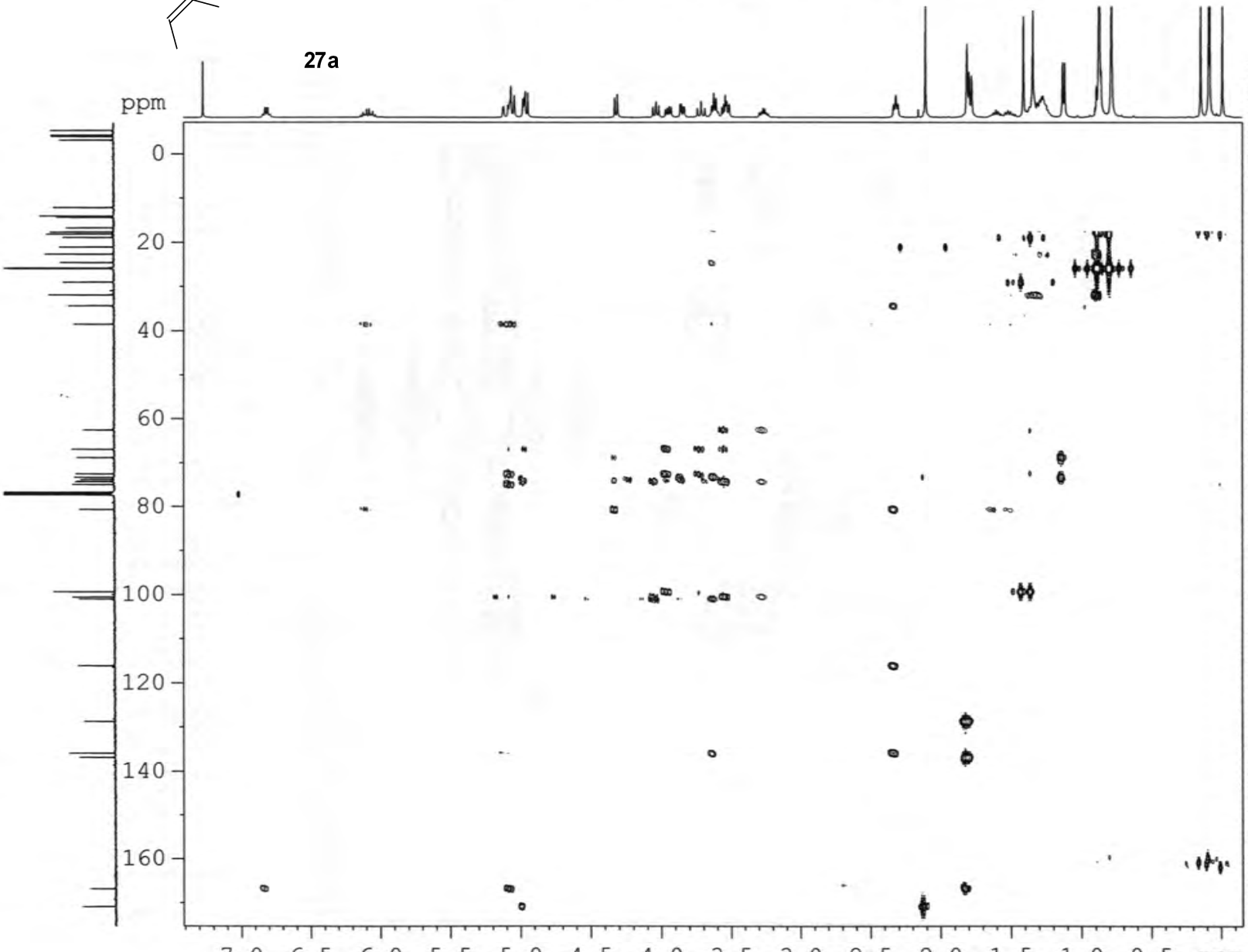


NAME	ZGH-Ipom-1-170-A-140226
EXPNO	4
PROCNO	1
Date_	20140302
Time	22.40
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	6
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.3 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
========	CHANNEL f1 ========
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
========	CHANNEL f2 ========
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
======	GRADIENT CHANNEL =====
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

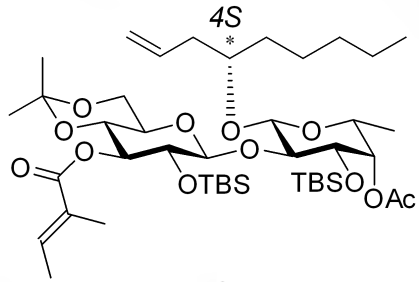


27a

ZGH-Ipom-1-170-A-140226 HMBC in CDCL3

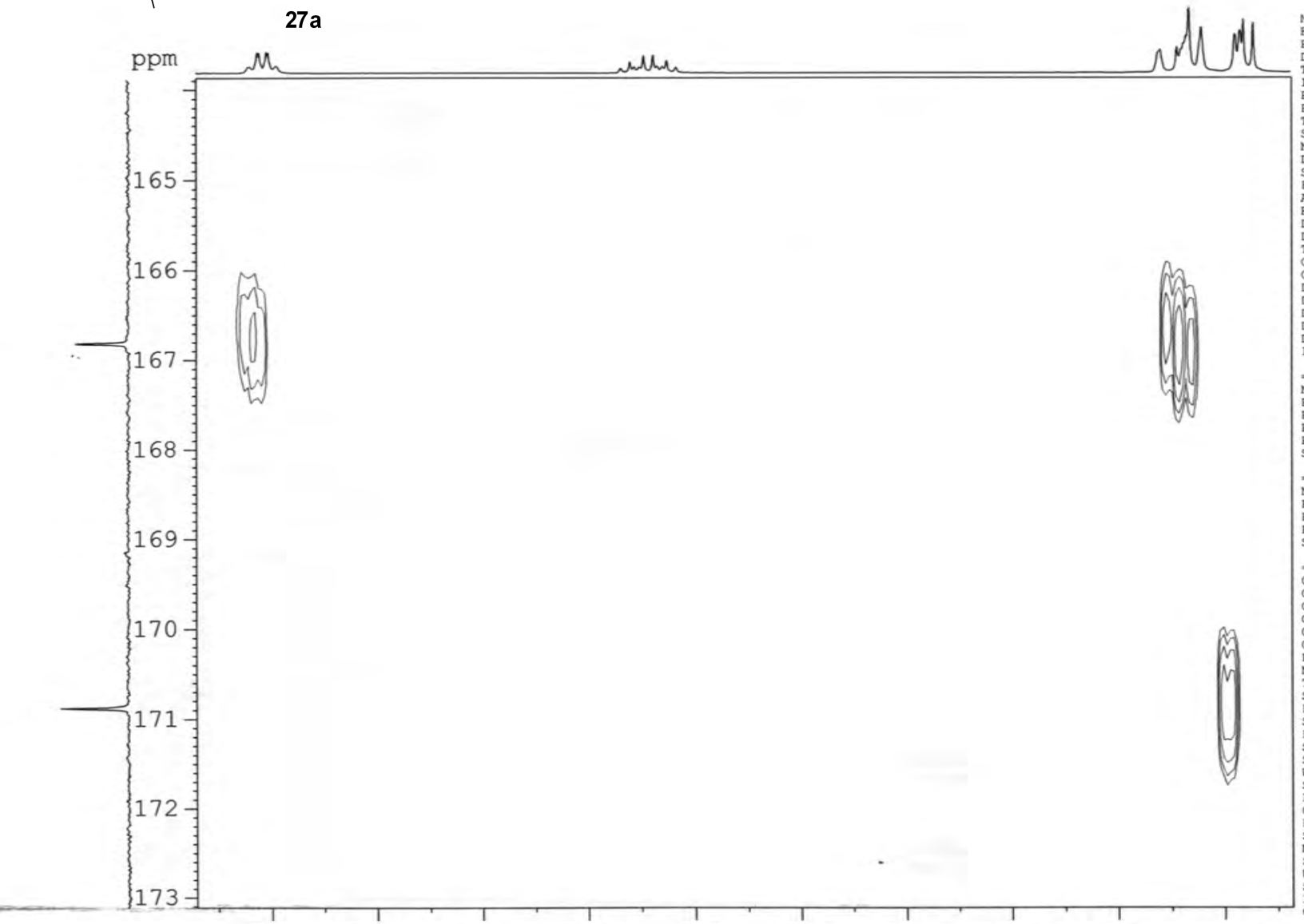


NAME	ZGH-Ipom-1-170-A-140226
EXPNO	5
PROCNO	1
Date_	20150314
Time	0.23
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDC13
NS	90
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.3 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
======== CHANNEL f2 ========	
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	128
SFO1	100.6228 MHz
FIDRES	129.709091 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



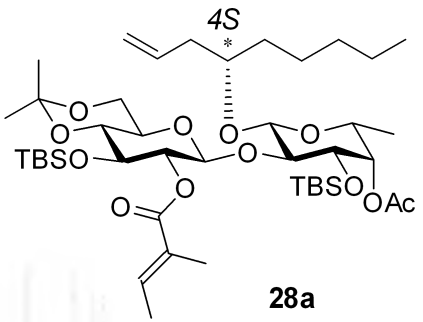
ZGH-Ipom-1-170-A-140226 HMBC in CDCL3

27a

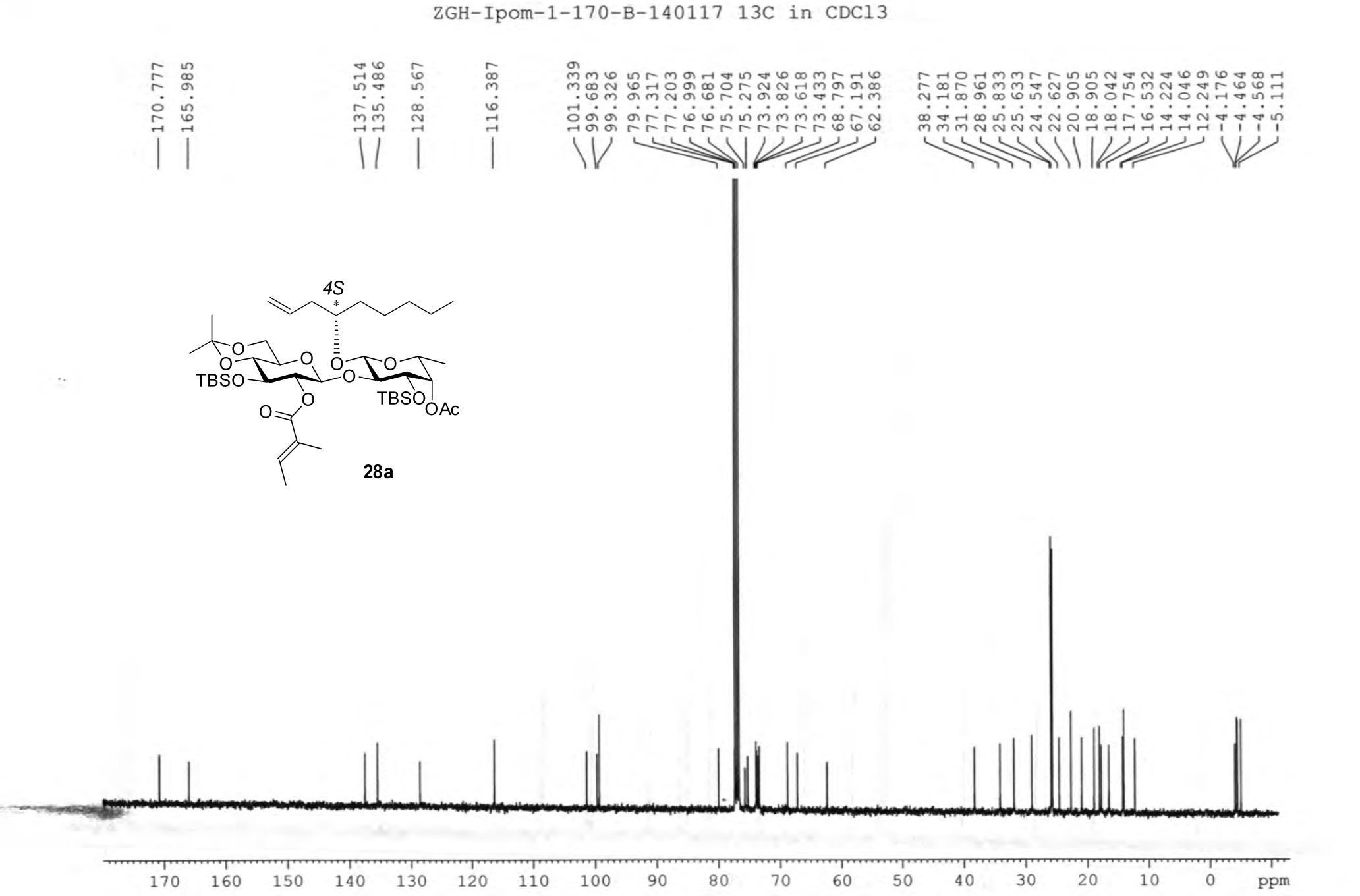


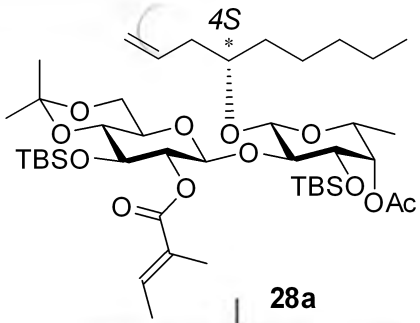
NAME	ZGH-Ipom-1-170-A-140226
EXPNO	5
PROCNO	1
Date_	20150314
Time	0.23
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDC13
NS	90
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.3 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
======== CHANNEL f2 ========	
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	128
SFO1	100.6228 MHz
FIDRES	129.709091 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

ZGH-Ipom-1-170-B-140119 1H in CDCL3



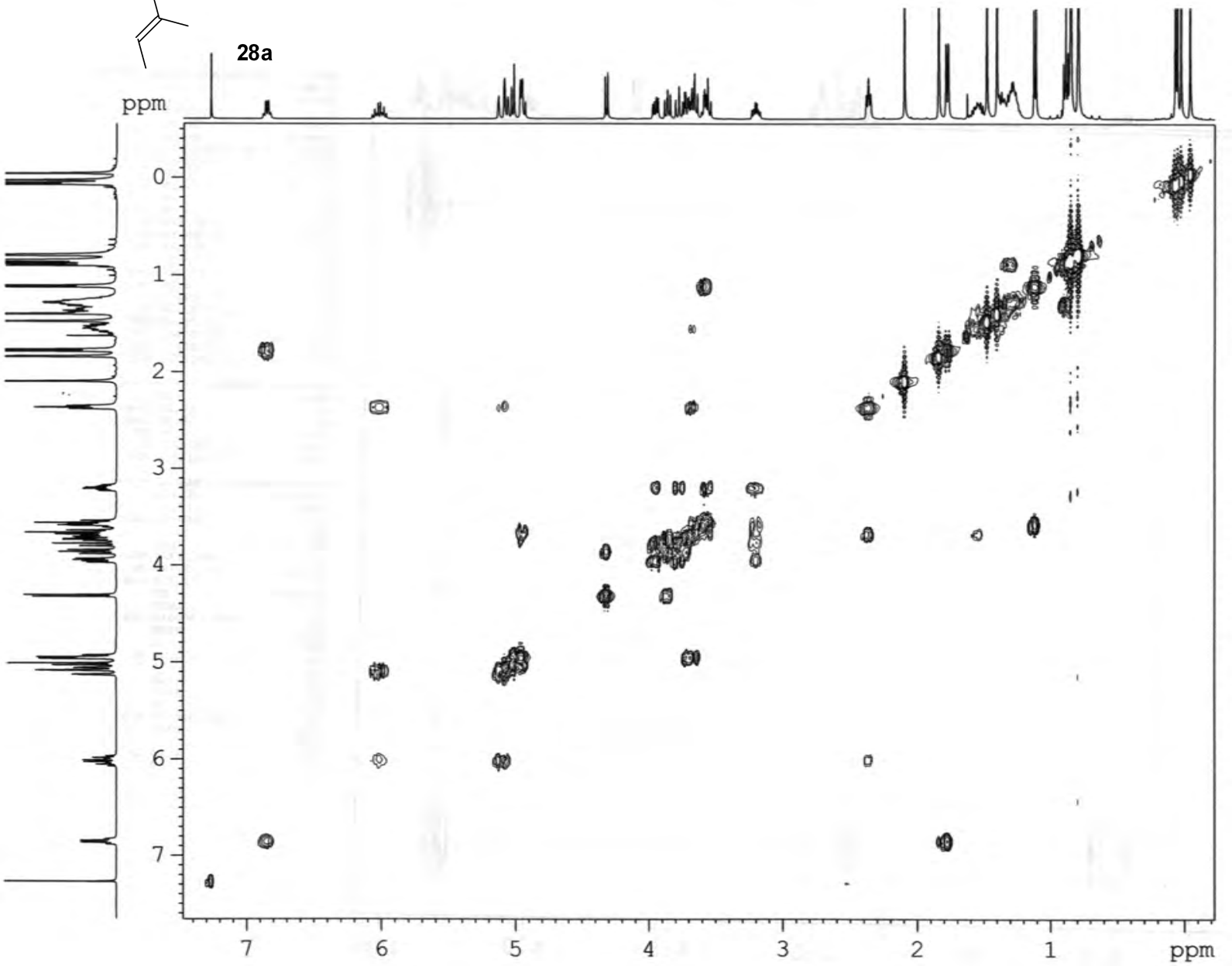
28a


ZGH-Ipom-1-170-B-140117 13C in CDCl3
170.777
165.985
137.514
135.486
128.567
116.387
101.339
99.683
99.326
79.965
77.317
77.203
76.999
76.681
75.704
75.275
73.924
73.826
73.618
73.433
68.797
67.191
62.386
38.277
34.181
31.870
28.961
25.833
25.633
24.547
22.627
20.905
18.905
18.042
17.754
16.532
14.224
14.046
12.249
-4.176
-4.464
-4.568
-5.111
4S
TBSO
TBSO
OAc
28a
170
160
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
ppm

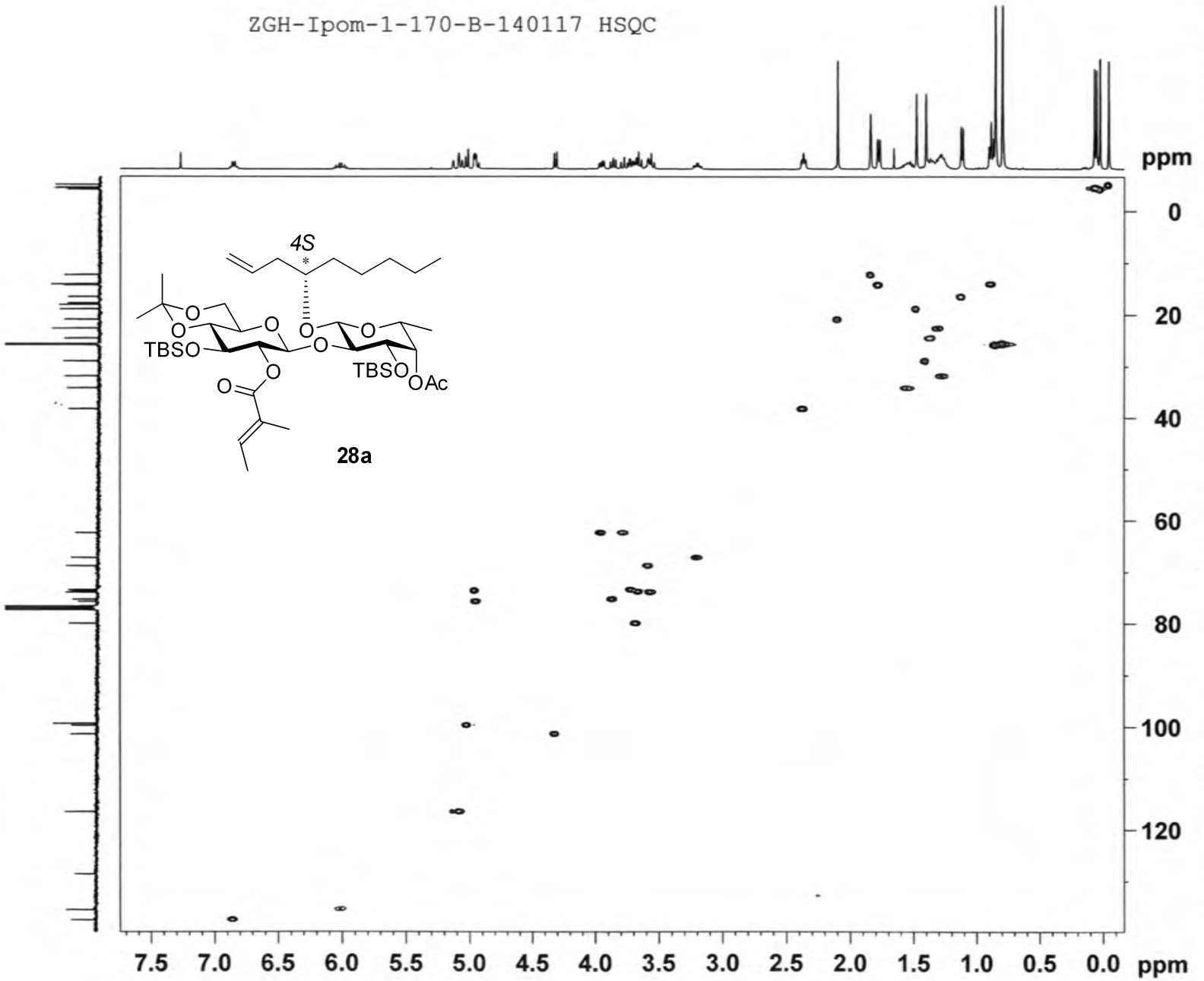


28a

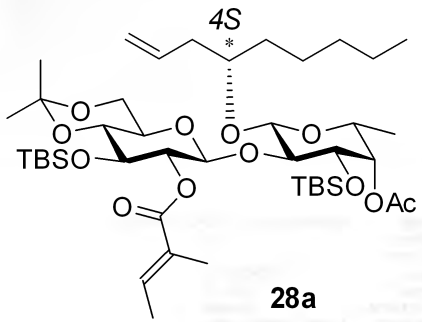
ZGH-Ipom-1-170-B-140119 COSY



NAME	ZGH-Ipom-1-170-B-140119
EXPNO	2
PROCNO	1
Date_	20141204
Time	22.38
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	8
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	101
DW	93.600 usec
DE	6.50 usec
TE	292.6 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

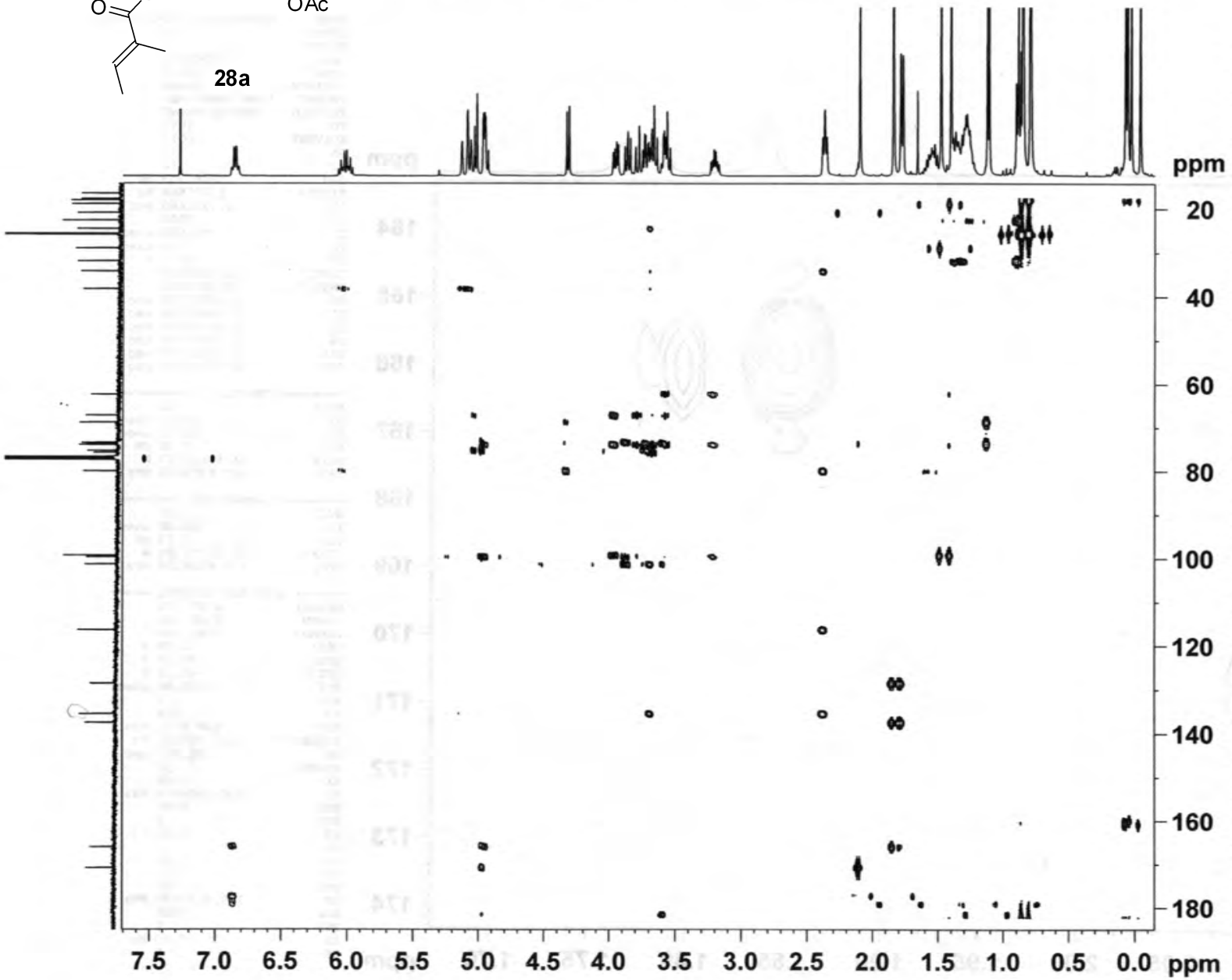


NAME	ZGH-Ipom-1-170-B-140117
EXPNO	4
PROCNO	1
Date_	20140120
Time	23.18
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	4
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.5 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0



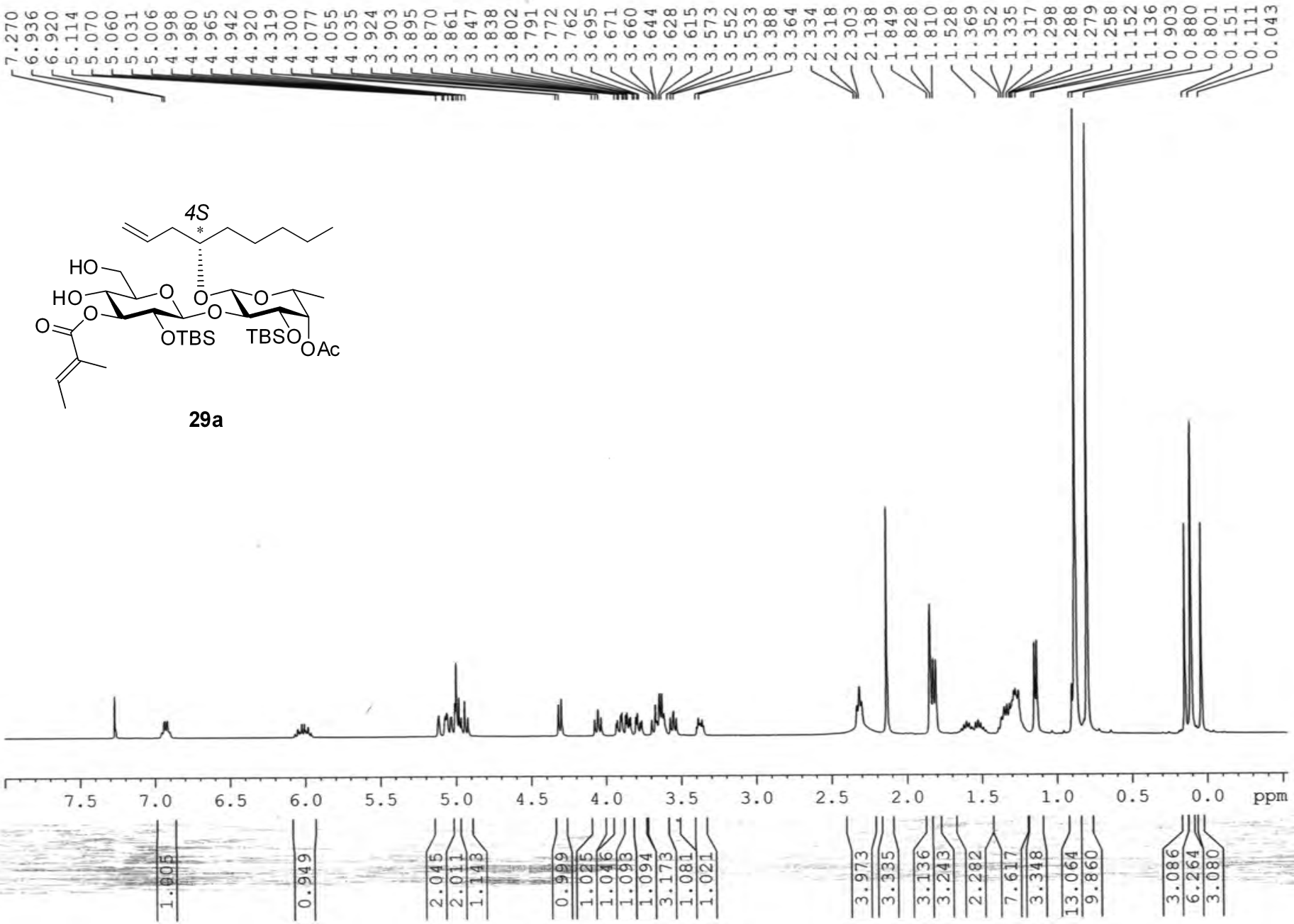
28a

ZGH-Ipom-1-170-B-140119 HMBC in CDCL3

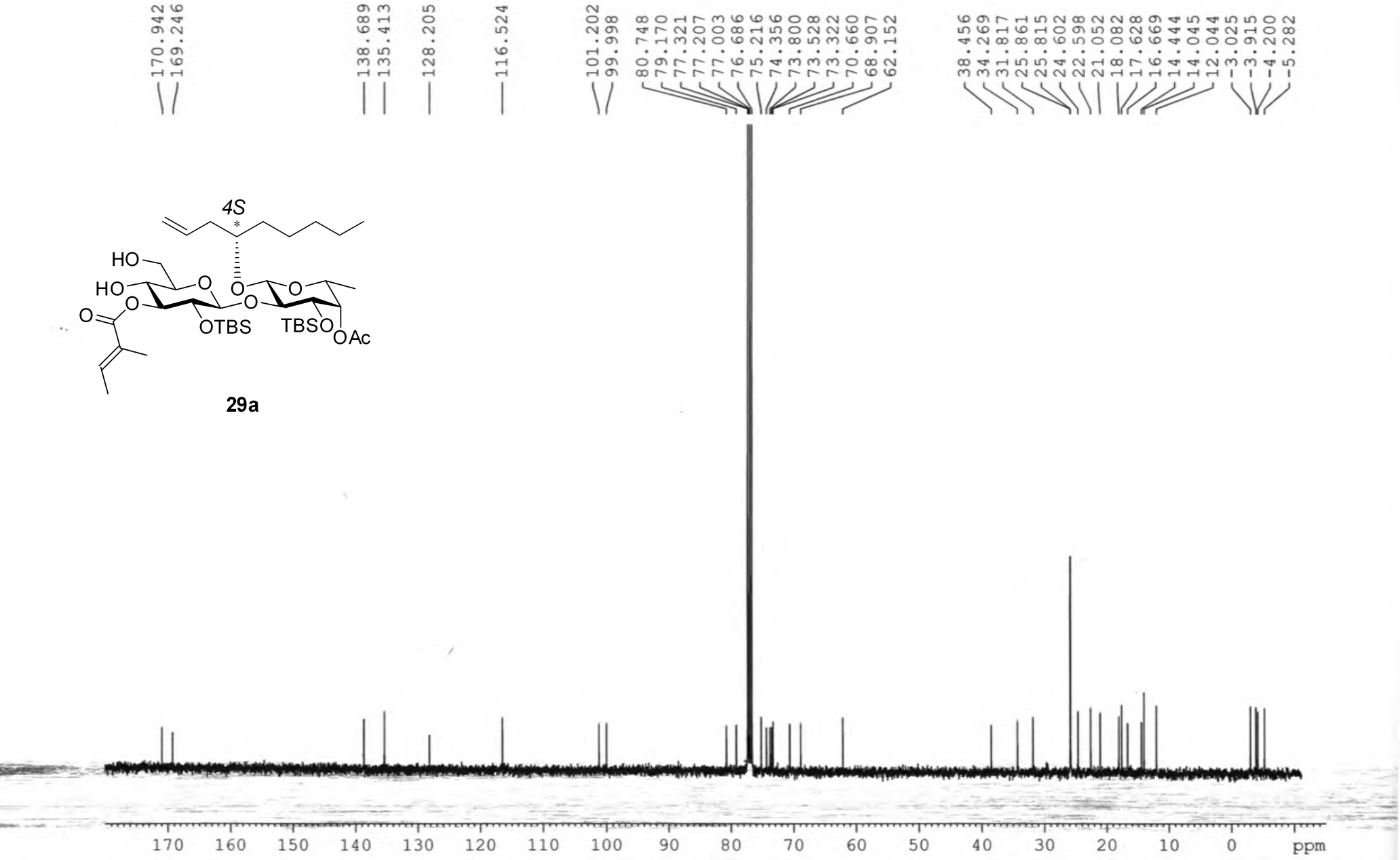


NAME	ZGH-Ipom-1-170-B-140119
EXPNO	15
PROCNO	1
Date_	20141202
Time	23.10
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDCl3
NS	70
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
========	CHANNEL f1 ========
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
========	CHANNEL f2 ========
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
======	GRADIENT CHANNEL =====
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	128
SFO1	100.6228 MHz
FIDRES	129.709091 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

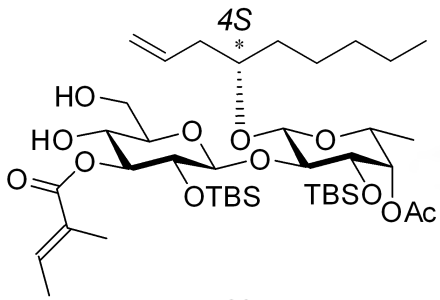
ZGH-Ipom-1-173-A-131028 1H in CDCL3



ZGH-Ipom-1-173-A-131028 13C in CDCl3

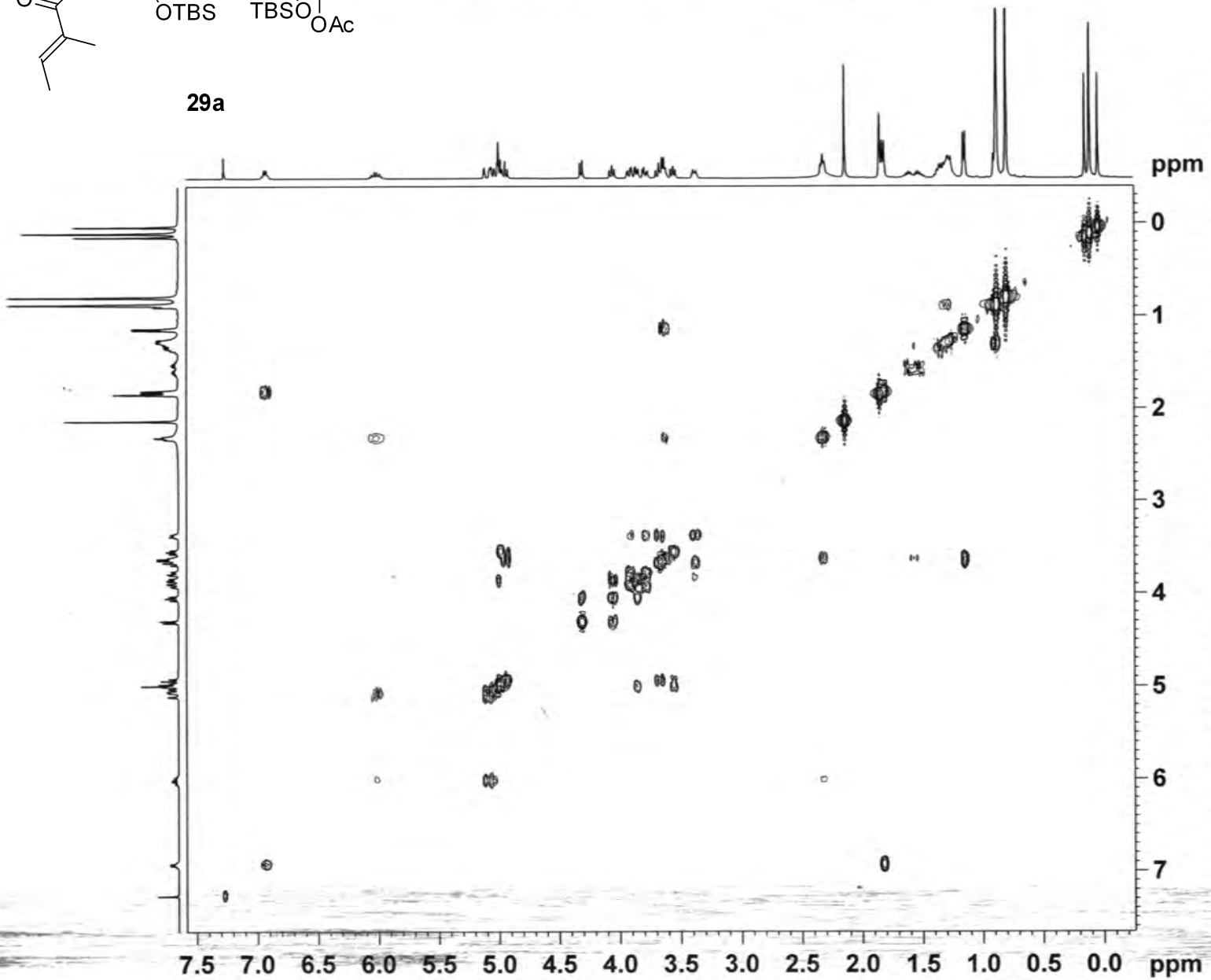


29a

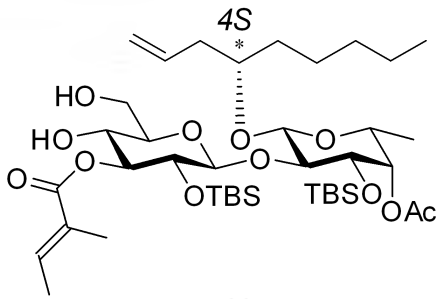


29a

ZGH-Ipom-1-173-A-131028 in CDCl3 COSY

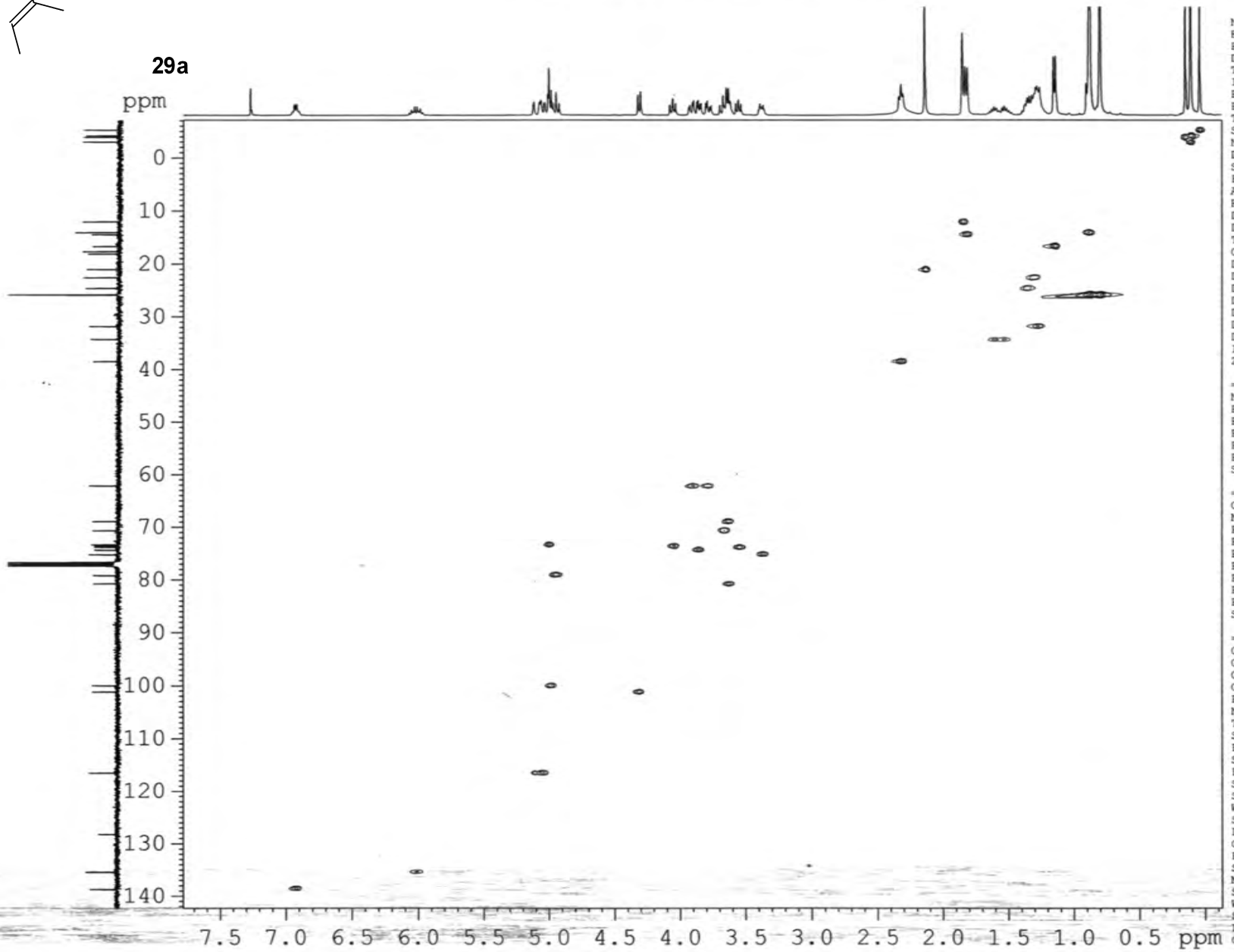


NAME	ZGH-Ipom-1-173-A-131028	
EXPNO	3	
PROCNO	1	
Date_	20131031	
Time	14.15	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	cosygpqf	
TD	2048	
SOLVENT	CDCl3	
NS	2	
DS	8	
SWH	5341.880	Hz
FIDRES	2.608340	Hz
AQ	0.1917428	sec
RG	114	
DW	93.600	usec
DE	6.50	usec
TE	292.5	K
D0	0.00000300	sec
D1	1.48689198	sec
D13	0.00000400	sec
D16	0.00020000	sec
IN0	0.00018720	sec
======== CHANNEL f1 ========		
NUC1	1H	
P0	10.00	usec
P1	10.00	usec
PL1	-3.50	dB
PL1W	31.17620277	W
SFO1	400.1324057	MHz
====== GRADIENT CHANNEL =====		
GPNAM1	SINE.100	
GPZ1	10.00	%
P16	1000.00	usec
ND0	1	
TD	128	
SFO1	400.1324	MHz
FIDRES	41.733440	Hz
SW	13.350	ppm
FnMODE	QF	
SI	1024	
SF	400.1300040	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	
PC	1.00	
SI	1024	
MC2	QF	
SF	400.1300033	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	



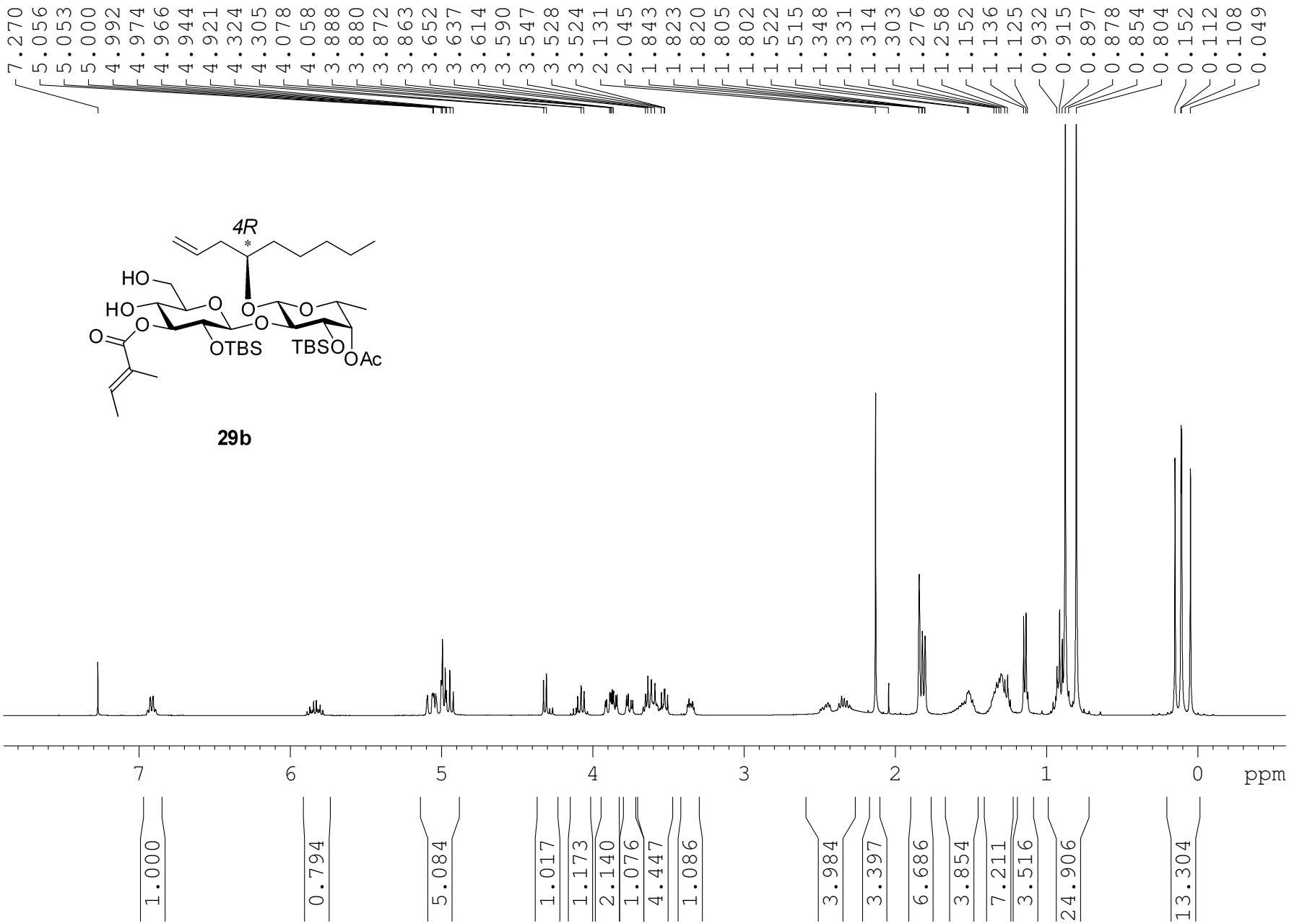
29a

ZGH-Ipom-1-173-A-131028 HSQC

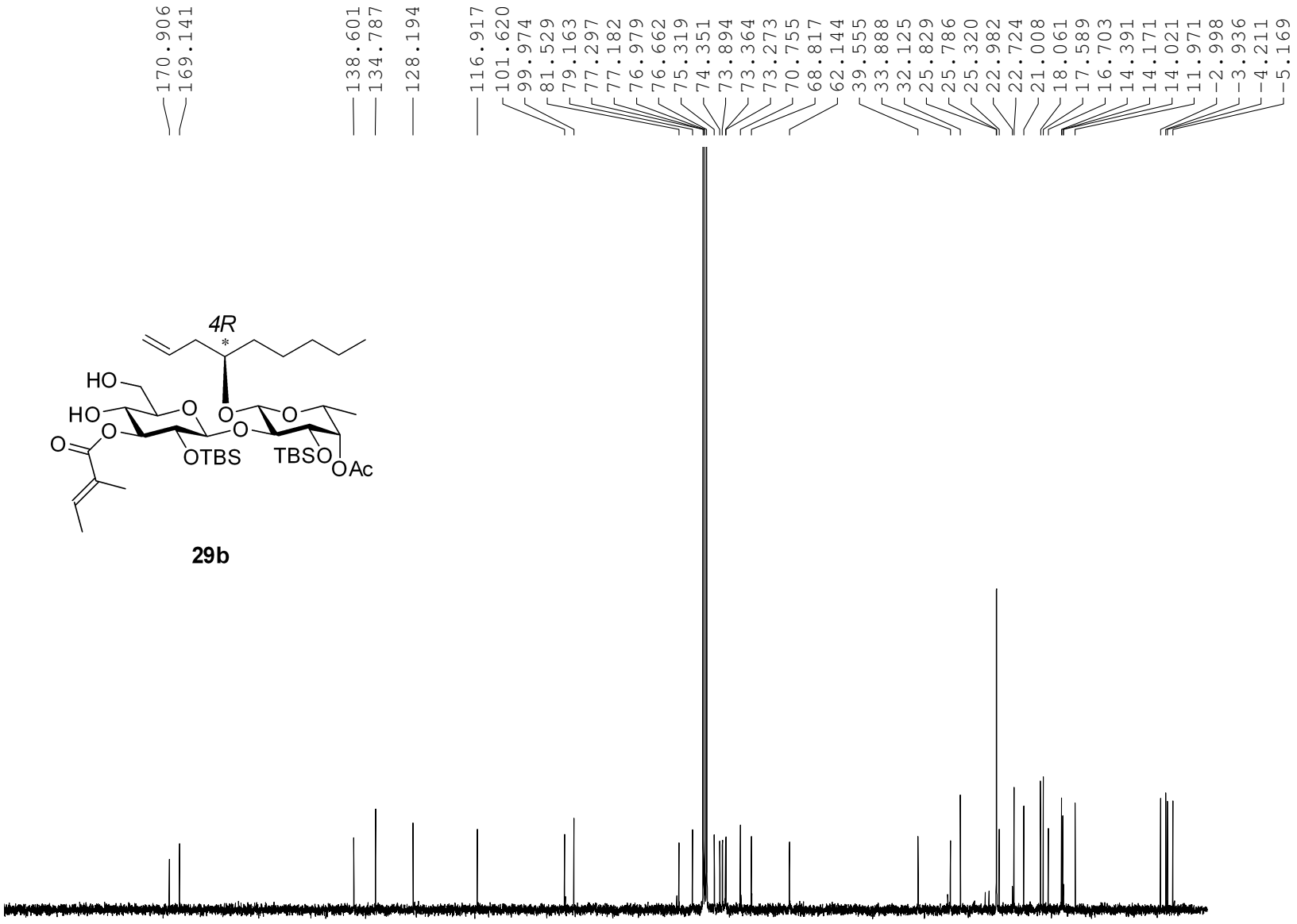


NAME	ZGH-Ipom-1-173-A-131028
EXPNO	4
PROCNO	1
Date_	20150313
Time	23.40
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDC13
NS	4
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.0 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

EDB-Ipom-1-56-A-140714 in CDCL3

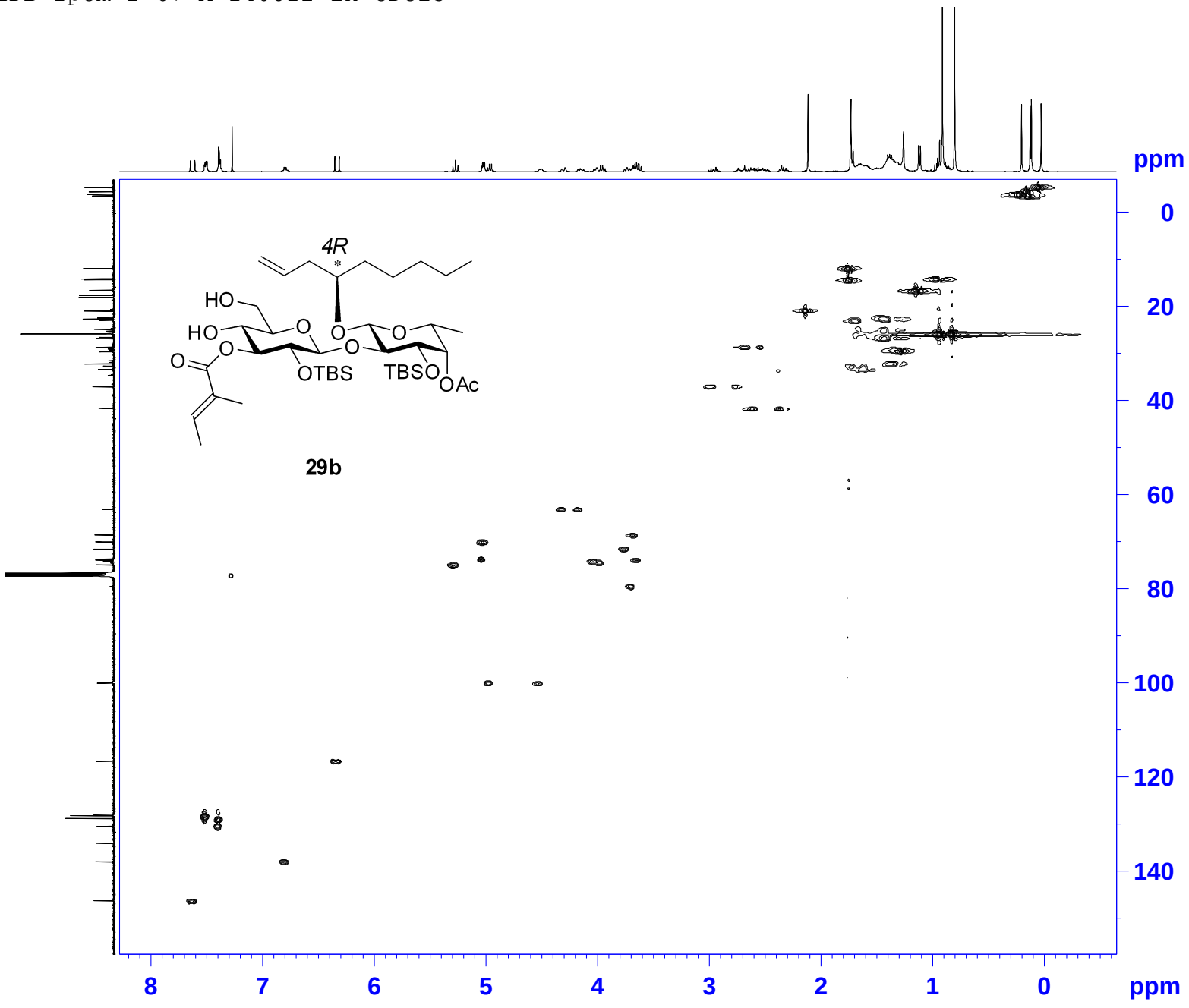


EDB-Ipom-1-56-A-140714 13C in CDCl3



29b

EDB-Ipom-1-67-A-140812 in CDCl3

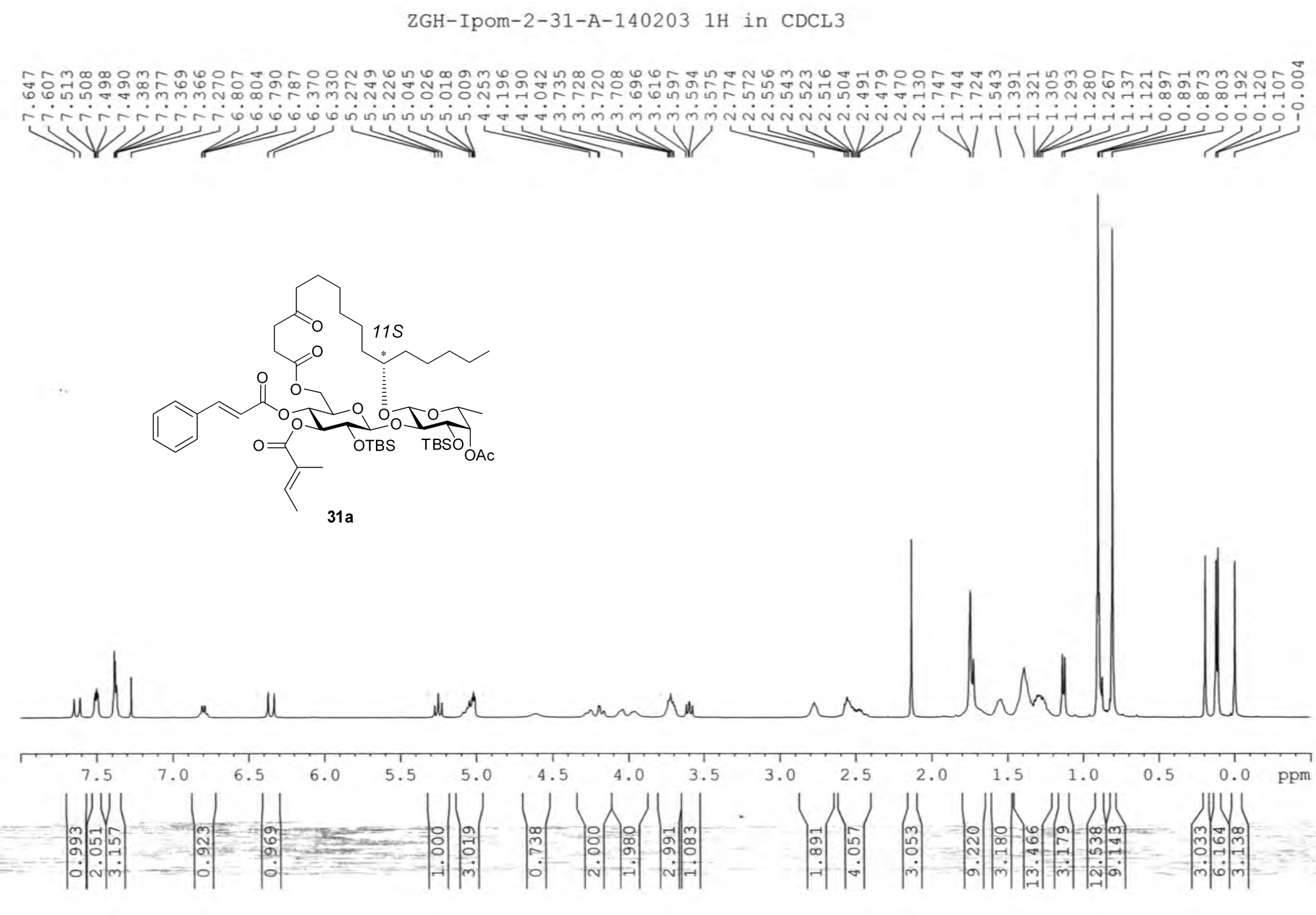



```
NAME      EDB-Ipom-1-67-A-140812
EXPNO                          4
PROCNO                         1
Date_                   20140828
Time                        5.20
INSTRUM                    spect
PROBHD    5 mm PABBO BB-
PULPROG              hsqcetgpsi
TD                          1024
SOLVENT                   CDCl3
NS                             2
DS                            16
SWH                    5341.880 Hz
FIDRES                 5.216680 Hz
AQ                     0.0958964 sec
RG                          2050
DW                       93.600 usec
DE                        6.50 usec
TE                       293.2 K
CNST2                145.0000000
D0                   0.00000300 sec
D1                   1.50000000 sec
D4                   0.00172414 sec
D11                  0.03000000 sec
D13                  0.00000400 sec
D16                  0.00020000 sec
D24                  0.00110000 sec
IN0                  0.00003000 sec
ZGOPTNS

======== CHANNEL f1 ========
NUC1                         1H
P1                        10.00 usec
P2                        20.00 usec
P28                     1000.00 usec
PL1                       -3.50 dB
PL1W                 31.17620277 W
SFO1                400.1324057 MHz

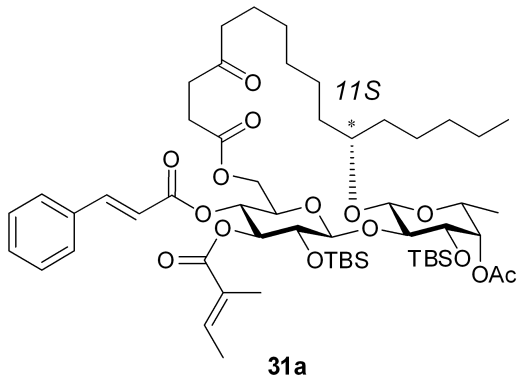
======== CHANNEL f2 ========
CPDPRG2                   garp
NUC2                       13C
P3                        10.00 usec
P4                        20.00 usec
PCPD2                     75.00 usec
PL2                       -2.10 dB
PL12                      15.40 dB
PL2W                 58.37759399 W
PL12W                 1.03811681 W
SFO2                100.6202727 MHz

====== GRADIENT CHANNEL =====
GPNAM1                 SINE.100
GPNAM2                 SINE.100
GPZ1                      80.00 %
GPZ2                      20.10 %
P16                     1000.00 usec
ND0                            2
TD                           256
SFO1                100.6203 MHz
FIDRES               65.104164 Hz
SW                     165.639 ppm
FnMODE           Echo-Antiecho
SI                          1024
SF                400.1300000 MHz
WDW                       QSINE
SSB                            2
LB                         0.00 Hz
GB                             0
PC                         1.00
SI                          1024
MC2               echo-antiecho
SF                100.6127690 MHz
WDW                       QSINE
SSB                            2
LB                         0.00 Hz
GB                             0
```


ZGH-Ipom-2-31-A-140203 1H in CDCL3
7.647
7.607
7.513
7.508
7.498
7.490
7.383
7.377
7.369
7.366
7.270
6.807
6.804
6.790
6.787
6.370
6.330
5.272
5.249
5.226
5.045
5.026
5.018
5.009
4.253
4.196
4.190
4.042
3.735
3.728
3.720
3.708
3.696
3.616
3.597
3.594
3.575
2.774
2.572
2.556
2.543
2.523
2.516
2.504
2.491
2.479
2.470
2.130
1.747
1.744
1.724
1.543
1.391
1.321
1.305
1.293
1.280
1.267
1.137
1.121
0.897
0.891
0.873
0.803
0.192
0.120
0.107
-0.004
11S
OTBS
TBSO
OAc
31a
7.5
7.0
6.5
6.0
5.5
5.0
4.5
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
ppm
0.993
2.051
3.157
0.923
0.969
1.000
3.019
0.738
2.000
1.980
2.991
1.083
1.891
4.057
3.053
9.220
3.180
13.466
3.179
12.538
9.143
3.033
6.164
3.138

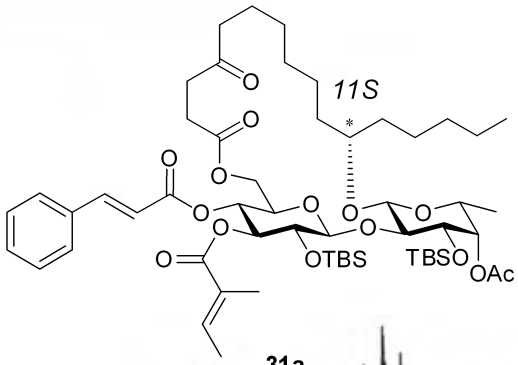
ZGH-Ipom-2-31-A-140203 13C in CDCl3

209.131
171.955
170.964
166.912
165.629
146.008
137.949
134.093
130.479
128.816
128.222
128.121
116.807
99.845
99.810
77.309
77.193
76.992
76.674
75.194
73.876
73.757
71.224
68.748
41.654
36.928
34.290
31.951
28.478
27.859
27.390
25.794
25.685
24.440
22.592
21.004
18.001
17.728
16.520
14.359
14.082
11.953



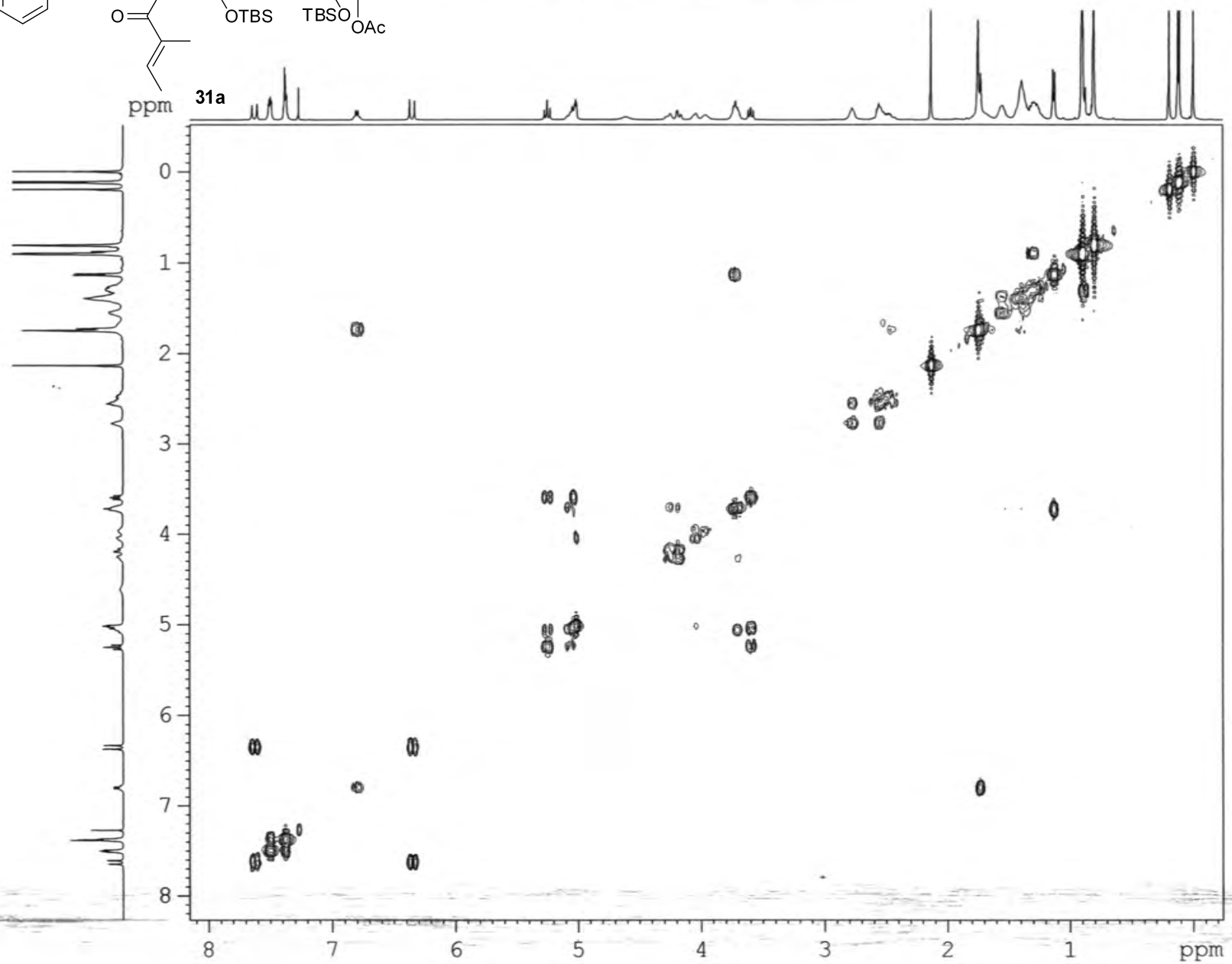
31a

210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 ppm

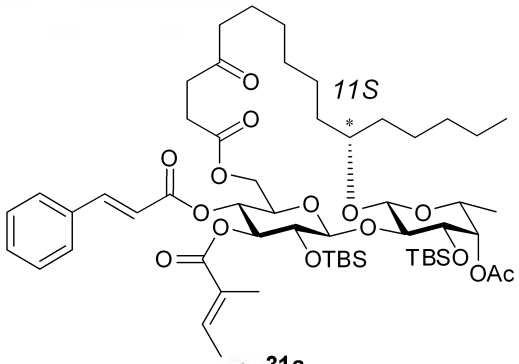


ZGH-Ipom-2-31-A-140203 COSY

31a

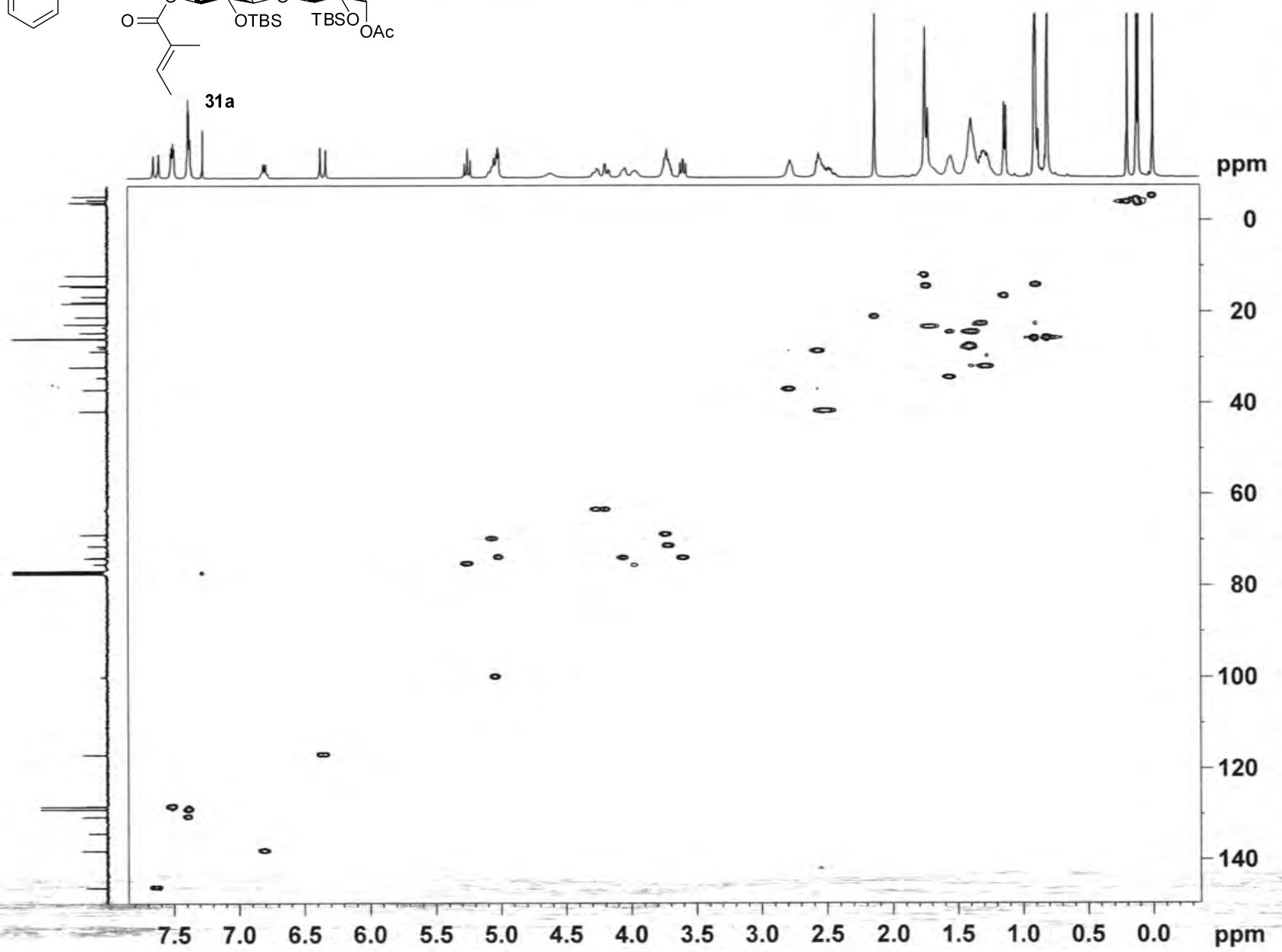


NAME	ZGH-Ipom-2-31-A-140203
EXPNO	3
PROCNO	1
Date_	20140205
Time_	18.56
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	8
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	50.8
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0



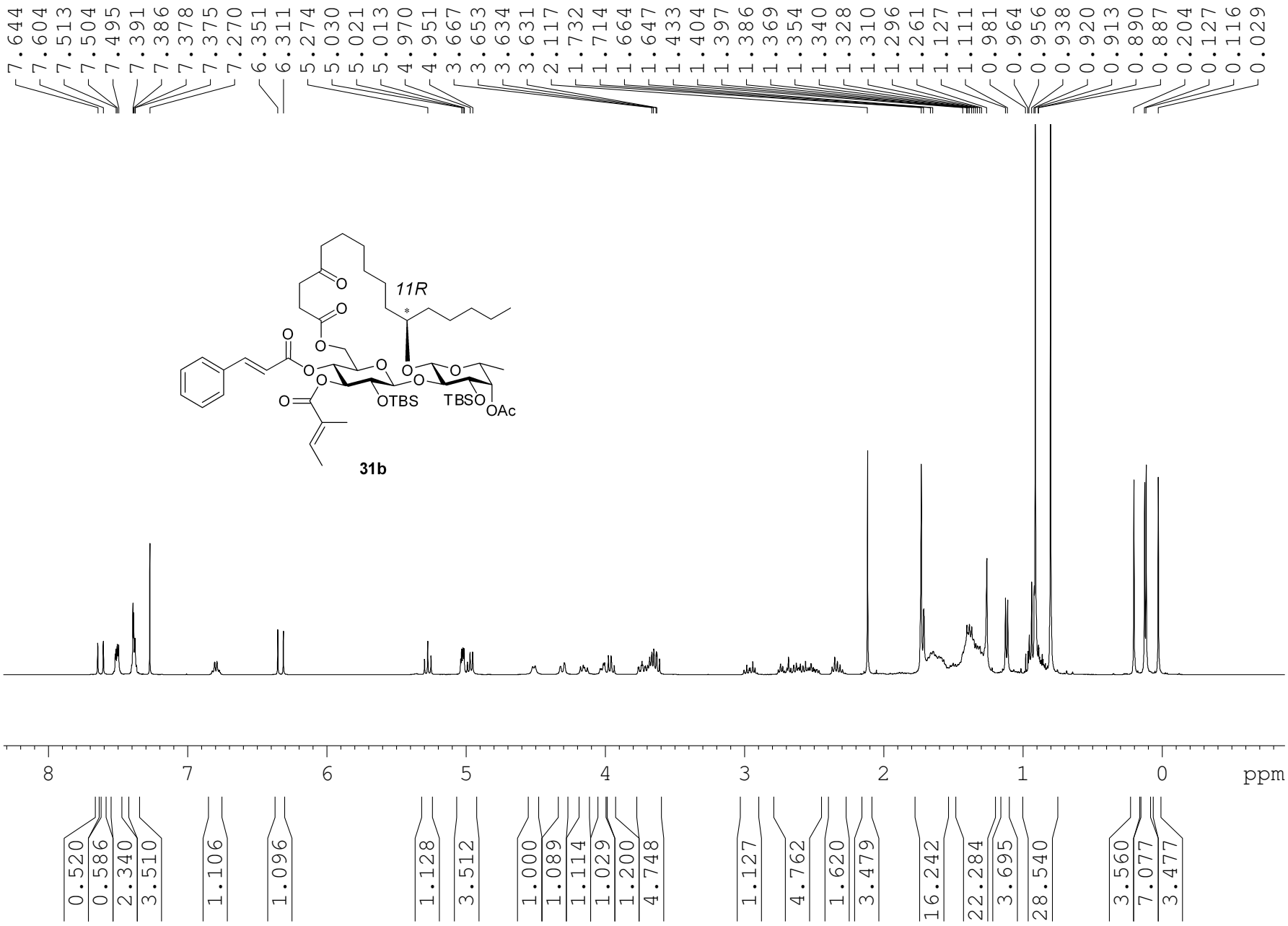
31a

ZGH-Ipom-2-31-A-140203 HSQC

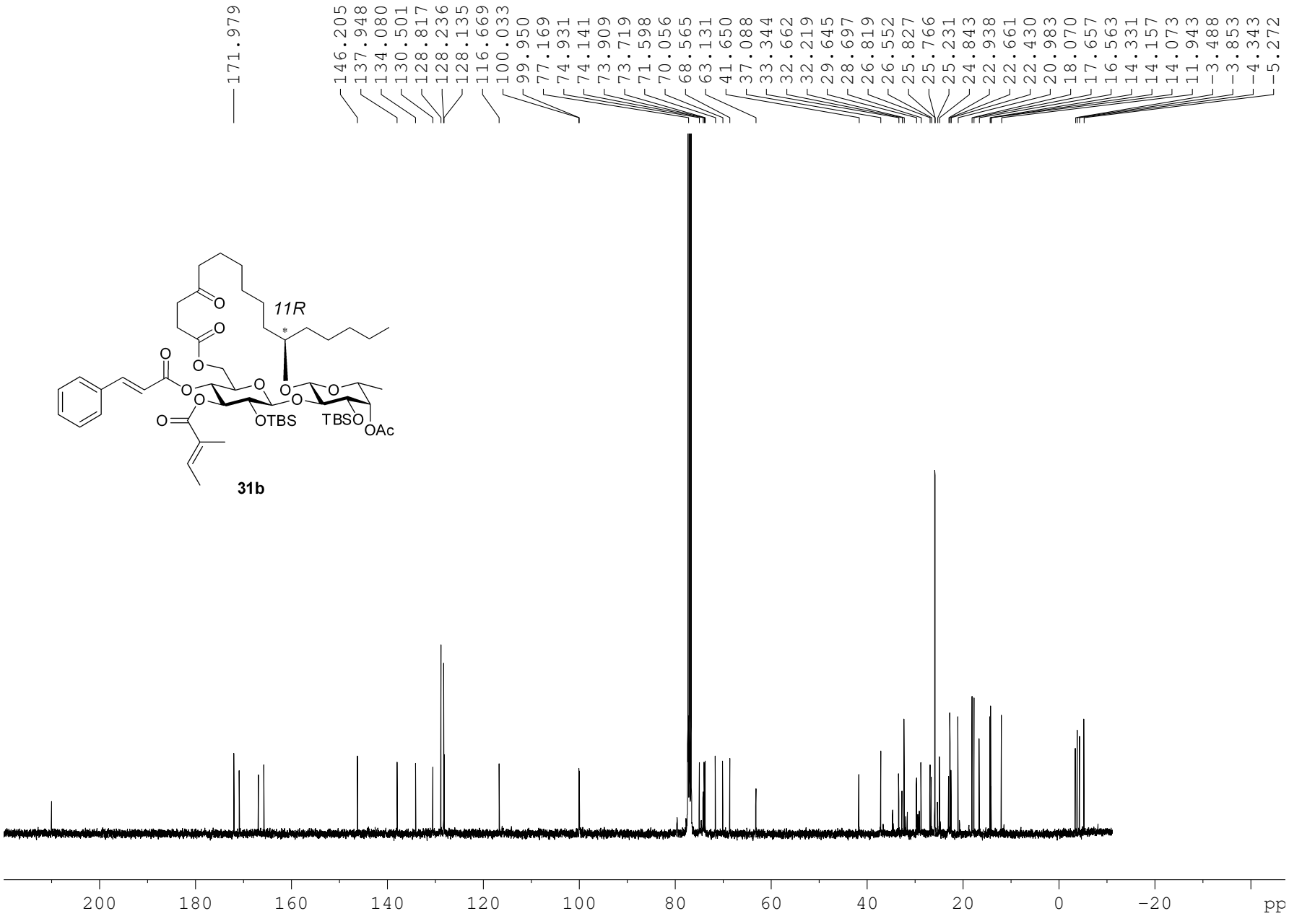


NAME	ZGH-Ipom-2-31-A-140203
EXPNO	4
PROCNO	1
Date_	20140205
Time	19.06
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	8
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

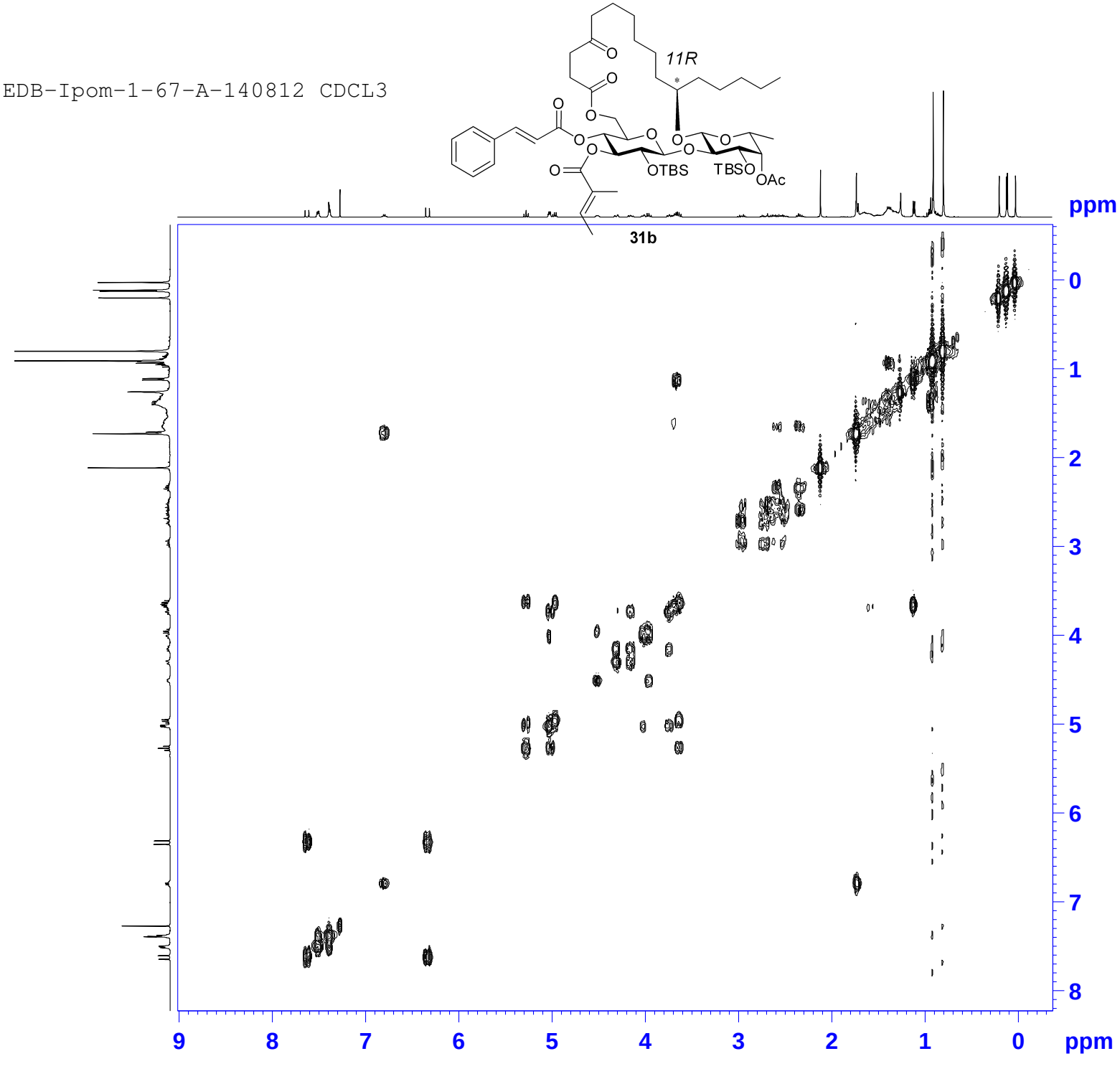
EDB-Ipom-1-67-A-140812 in CDCL3



EDB-Ipom-1-67-A-140812 13C in CDCl3



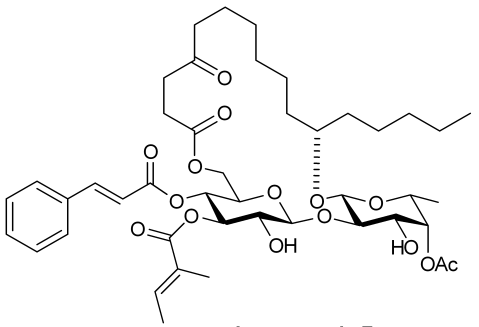
EDB-Ipom-1-67-A-140812 CDCL3



NAME	EDB-Ipom-1-67-A-140812	
EXPNO	3	
PROCNO	1	
Date_	20140828	
Time	5.12	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	cosygpqf	
TD	2048	
SOLVENT	CDCl3	
NS	2	
DS	0	
SWH	5341.880	Hz
FIDRES	2.608340	Hz
AQ	0.1917428	sec
RG	128	
DW	93.600	usec
DE	6.50	usec
TE	293.9	K
D0	0.00000300	sec
D1	1.48689198	sec
D13	0.00000400	sec
D16	0.00020000	sec
IN0	0.00018720	sec
======== CHANNEL f1 ========		
NUC1	1H	
P0	10.00	usec
P1	10.00	usec
PL1	-3.50	dB
PL1W	31.17620277	W
SFO1	400.1324057	MHz
====== GRADIENT CHANNEL =====		
GPNAM1	SINE.100	
GPZ1	10.00	%
P16	1000.00	usec
ND0	1	
TD	128	
SFO1	400.1324	MHz
FIDRES	41.733440	Hz
SW	13.350	ppm
FnMODE	QF	
SI	1024	
SF	400.1300040	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	
PC	1.00	
SI	1024	
MC2	QF	
SF	400.1300033	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	

ZGH-Ipom-2-34-A 1H in CDCL3

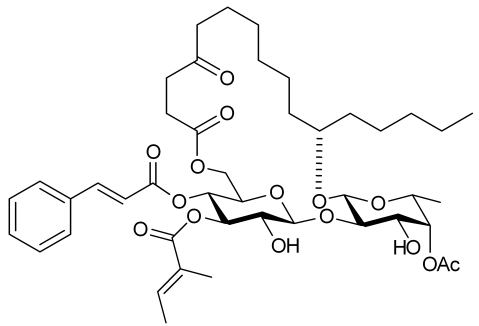
7.658 7.618 7.519 7.514 7.504 7.495 7.398 7.392 7.384 7.381 7.270 6.891 6.888 6.370 6.330 5.340 5.316 5.291 5.167 5.151 5.143 5.119 4.629 4.609 4.577 4.462 4.454 4.421 4.402 4.159 3.937 3.697 3.681 3.679 3.674 3.654 3.638 2.764 2.185 1.771 1.768 1.765 1.759 1.741 1.738 1.635 1.539 1.525 1.517 1.503 1.372 1.355 1.338 1.324 1.308 1.299 1.294 1.284 1.266 1.251 1.248 1.238 1.222 1.196 1.180 0.912 0.896 0.878



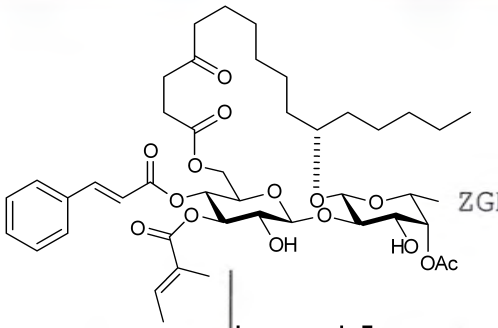
Ipomoeassin F

ZGH-Ipom-2-34-A-140215 check again

210.010
171.786
171.693
168.796
165.409
146.125
139.782
133.964
130.624
128.874
128.246
127.536
116.666
105.679
100.182
82.767
79.732
77.319
77.204
77.001
76.683
75.817
73.943
72.692
72.569
72.435
68.790
67.444
61.752
41.827
37.564
34.322
33.083
31.892
29.118
29.019
28.291
24.675
24.483
23.465
22.635
20.929
16.327
14.581
14.086
11.954

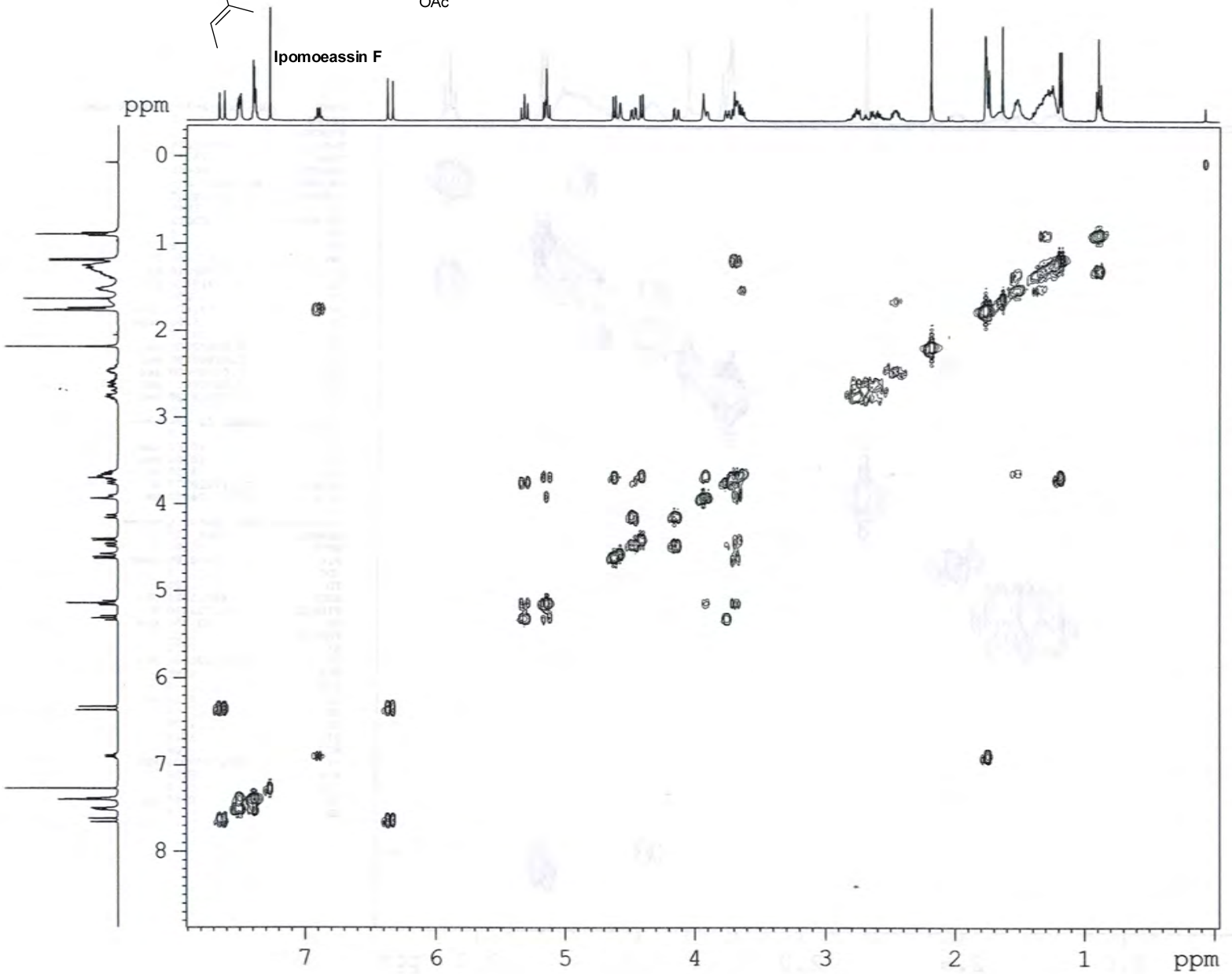


Ipomoeassin F

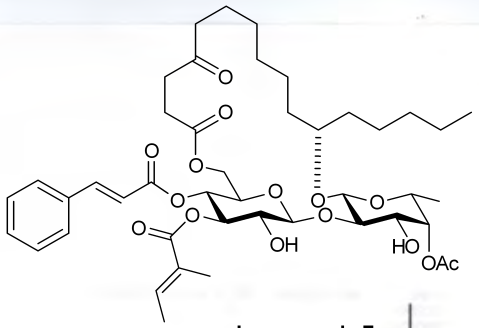


Ipomoeassin F

ZGH-Ipom-2-34-A COSY in CDCl3

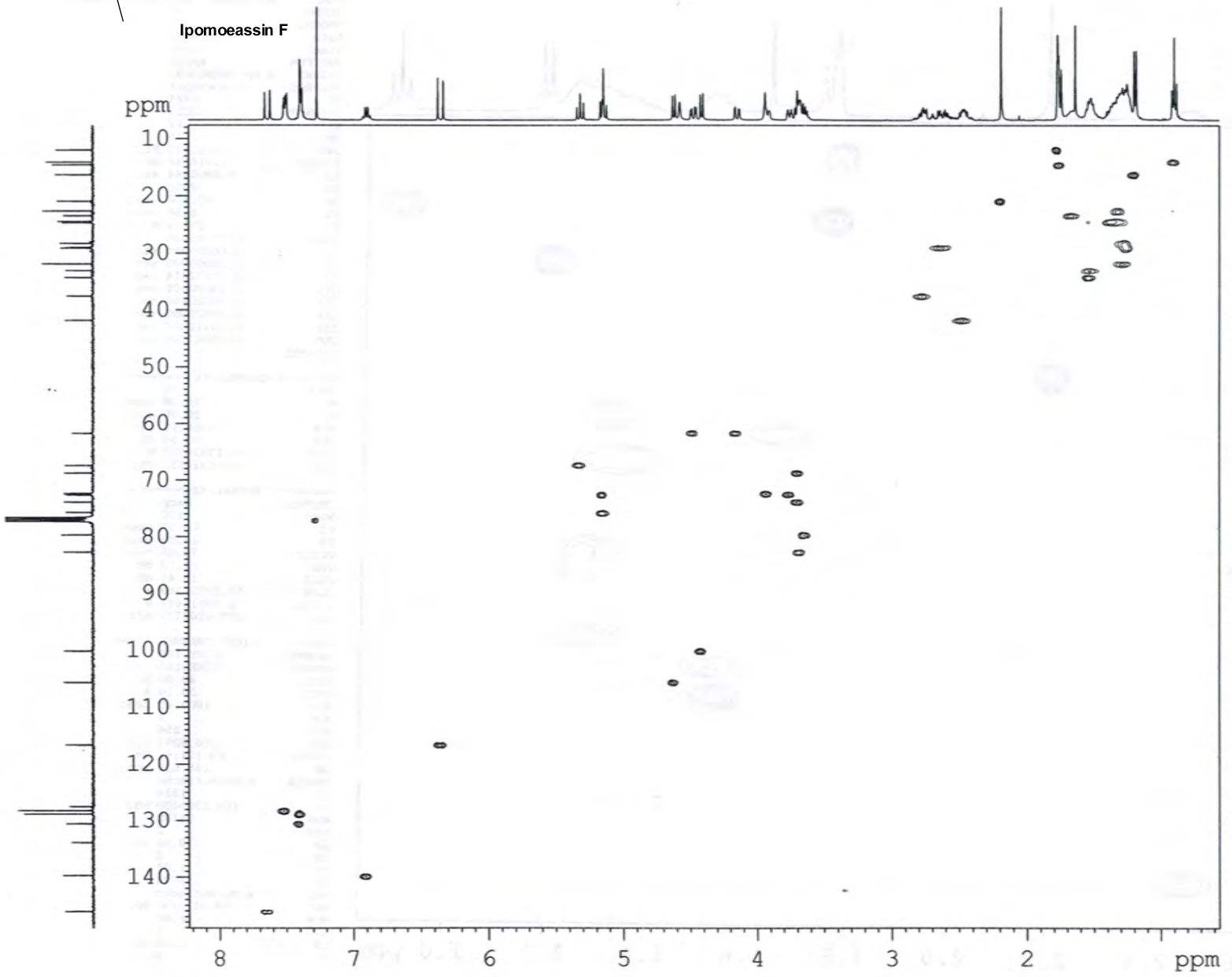


NAME	ZGH-Ipom-2-34-A check again	
EXPNO	2	
PROCNO	1	
Date_	20141204	
Time	23.23	
INSTRUM	spect	
PROBHD	5 mm PABBO BB-	
PULPROG	cosygpqf	
TD	2048	
SOLVENT	CDCl3	
NS	8	
DS	8	
SWH	5341.880	Hz
FIDRES	2.608340	Hz
AQ	0.1917428	sec
RG	256	
DW	93.600	usec
DE	6.50	usec
TE	292.4	K
D0	0.00000300	sec
D1	1.48689198	sec
D13	0.00000400	sec
D16	0.00020000	sec
IN0	0.00018720	sec
======== CHANNEL f1 ========		
NUC1	1H	
P0	10.00	usec
P1	10.00	usec
PL1	-3.50	dB
PL1W	31.17620277	W
SFO1	400.1324057	MHz
====== GRADIENT CHANNEL =====		
GPNAM1	SINE.100	
GPZ1	10.00	%
P16	1000.00	usec
ND0	1	
TD	128	
SFO1	400.1324	MHz
FIDRES	41.733440	Hz
SW	13.350	ppm
FnMODE	QF	
SI	1024	
SF	400.1300040	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	
PC	1.00	
SI	1024	
MC2	QF	
SF	400.1300033	MHz
WDW	SINE	
SSB	0	
LB	0.00	Hz
GB	0	

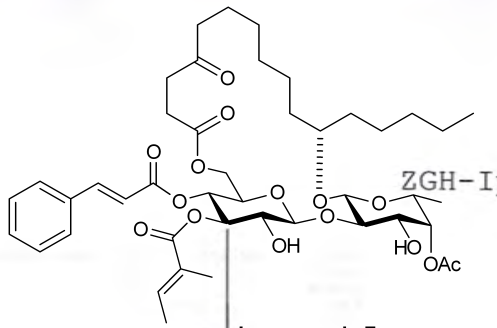


Ipomoeassin F

ZGH-Ipom-2-34-A HSQC in CDCl3

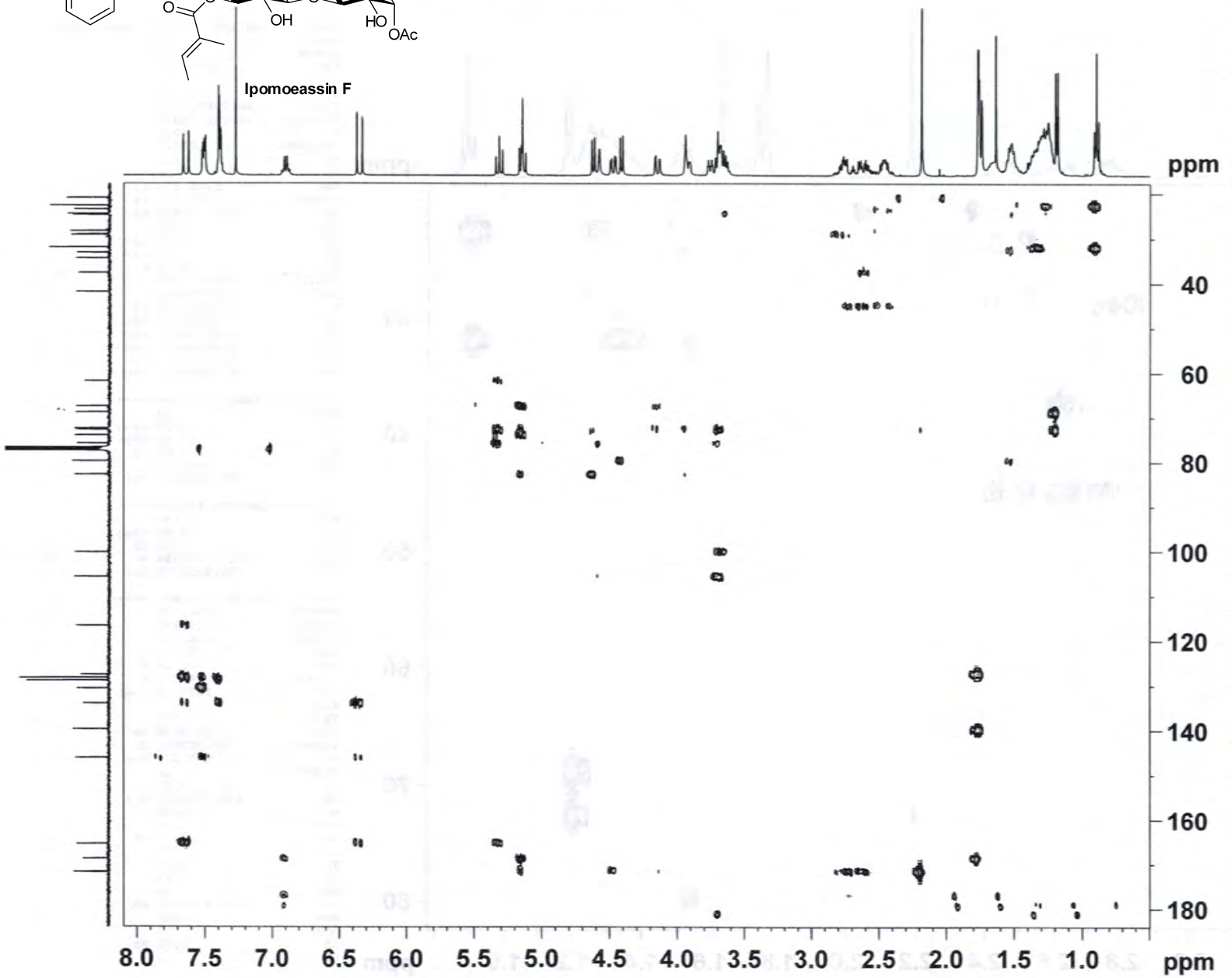


NAME	ZGH-Ipom-2-34-A check again
EXPNO	4
PROCNO	1
Date_	20141205
Time	6.51
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	12
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

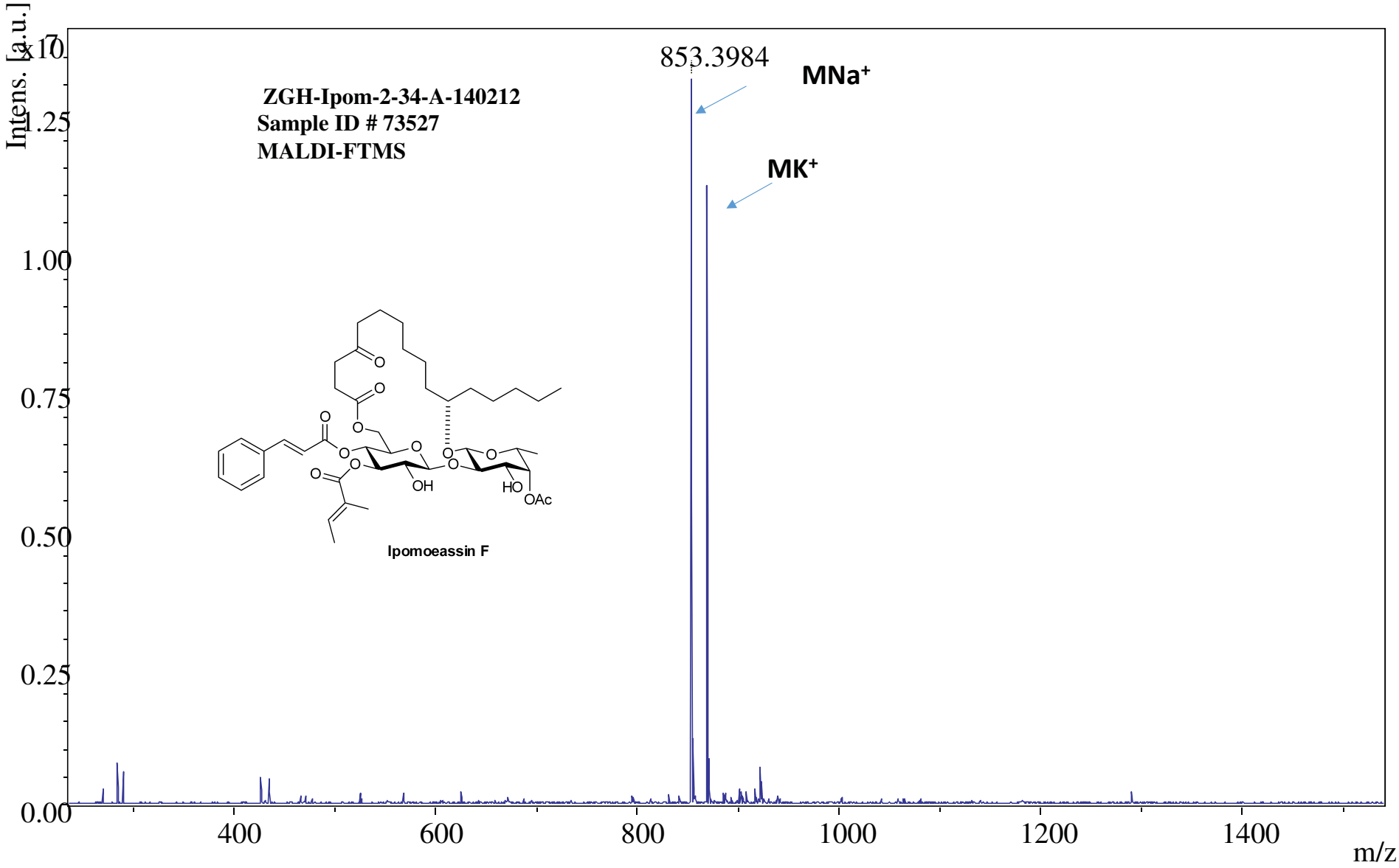


Ipomoeassin F

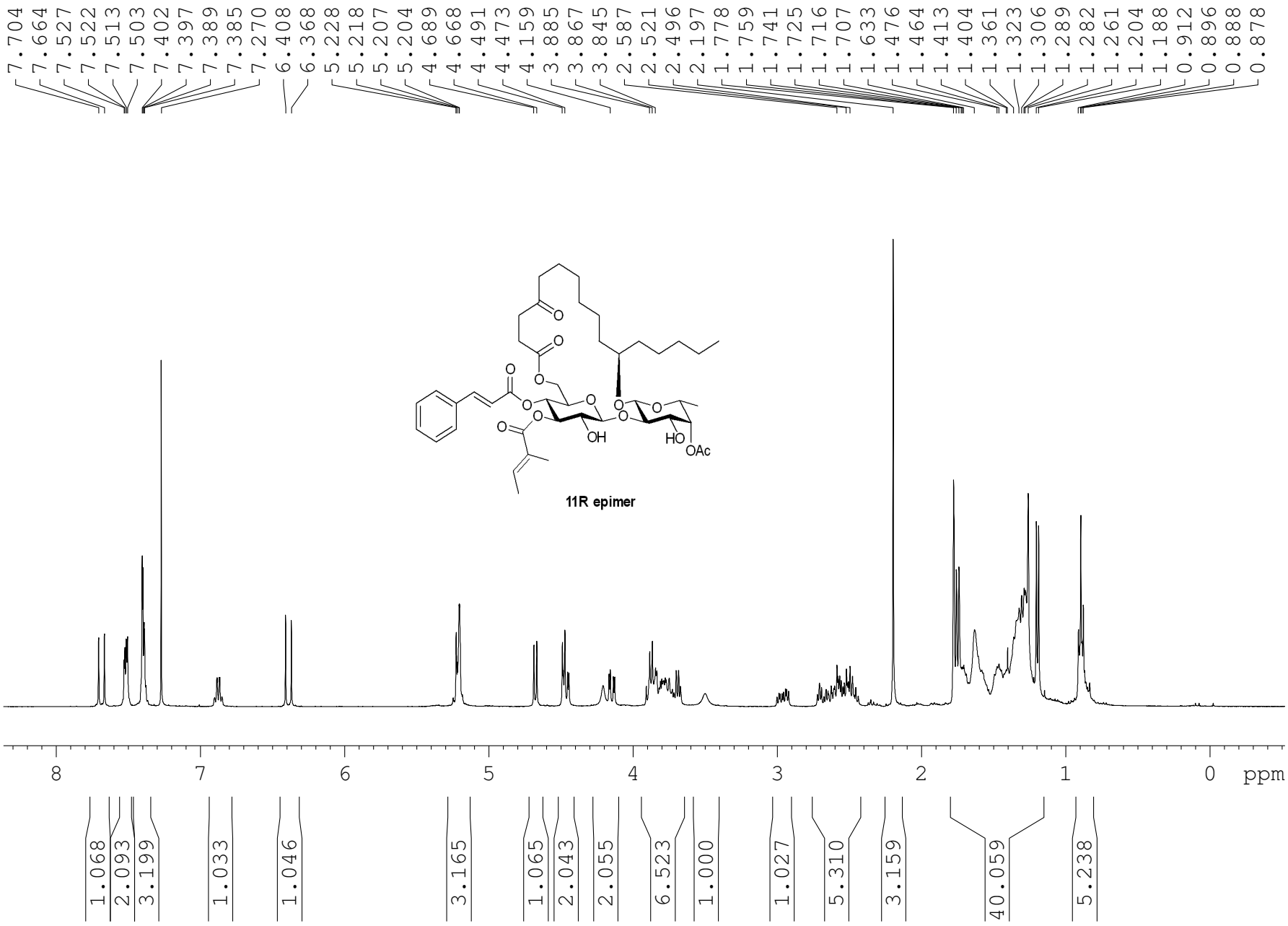
ZGH-Ipom-2-34-A HMBC in CDCL3



NAME	ZGH-Ipom-2-34-A check again
EXPNO	3
PROCNO	1
Date_	20141204
Time	23.56
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hmbcgplpndqf
TD	4096
SOLVENT	CDCl3
NS	100
DS	16
SWH	5208.333 Hz
FIDRES	1.271566 Hz
AQ	0.3932660 sec
RG	2050
DW	96.000 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
CNST13	10.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D2	0.00344828 sec
D6	0.05000000 sec
D16	0.00020000 sec
IN0	0.00003010 sec
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1325208 MHz
======== CHANNEL f2 ========	
NUC2	13C
P3	10.00 usec
PL2	-2.10 dB
PL2W	58.37759399 W
SFO2	100.6228138 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPNAM3	SINE.100
GPZ1	50.00 %
GPZ2	30.00 %
GPZ3	40.10 %
P16	1000.00 usec
ND0	2
TD	128
SFO1	100.6228 MHz
FIDRES	129.709091 Hz
SW	165.000 ppm
FnMODE	QF
SI	2048
SF	400.1300000 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	4.00
SI	1024
MC2	QF
SF	100.6127690 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

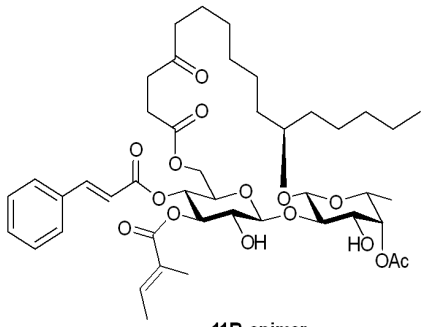

Intens. [a.u.]
x10
1.25
1.00
0.75
0.50
0.25
0.00
853.3984
MNa+
MK+
ZGH-Ipom-2-34-A-140212
Sample ID # 73527
MALDI-FTMS
OH
HO
OAc
Ipomoeassin F
400
600
800
1000
1200
1400
m/z

EDB-Ipom-1-68-B-140925 in CDCL3



EDB-Ipom-1-68-C-140925 13C in CDCl3

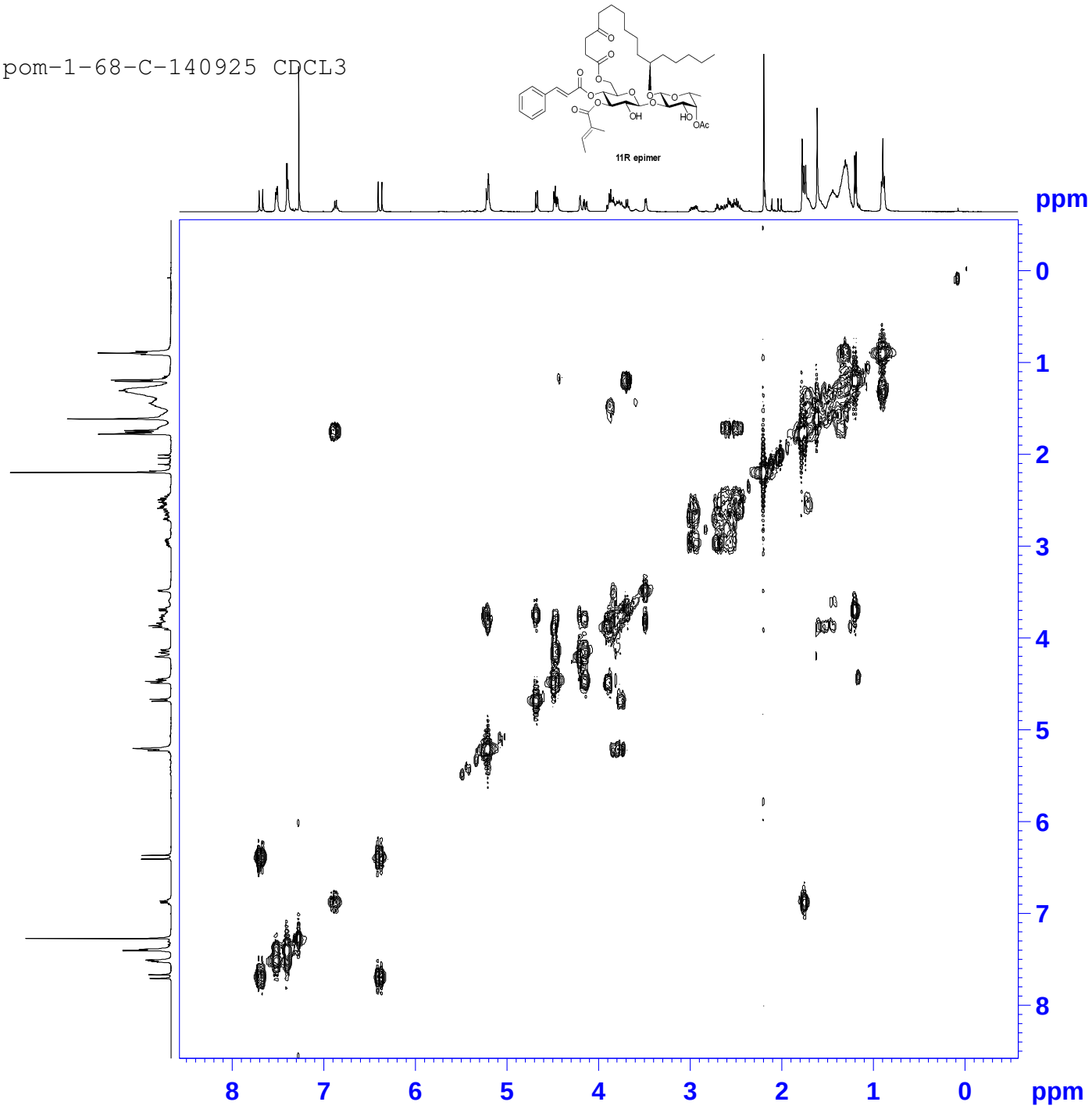
209.290
171.685
171.420
168.169
165.533
146.180
139.036
133.967
130.624
128.896
128.212
127.711
116.677
103.078
97.903
78.436
77.173
75.937
74.543
72.611
72.112
72.005
71.698
69.175
68.563
62.409
41.905
37.405
37.321
33.116
32.341
31.991
31.874
28.737
28.073
27.398
25.287
24.632
23.453
23.109
22.610
22.571
20.896
16.280
14.474
14.039
14.013
11.981



11R epimer

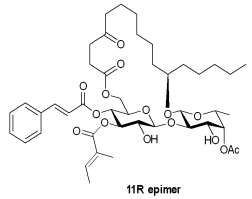
200 180 160 140 120 100 80 60 40 20 0 -20

EDB-Ipom-1-68-C-140925 CDCL3

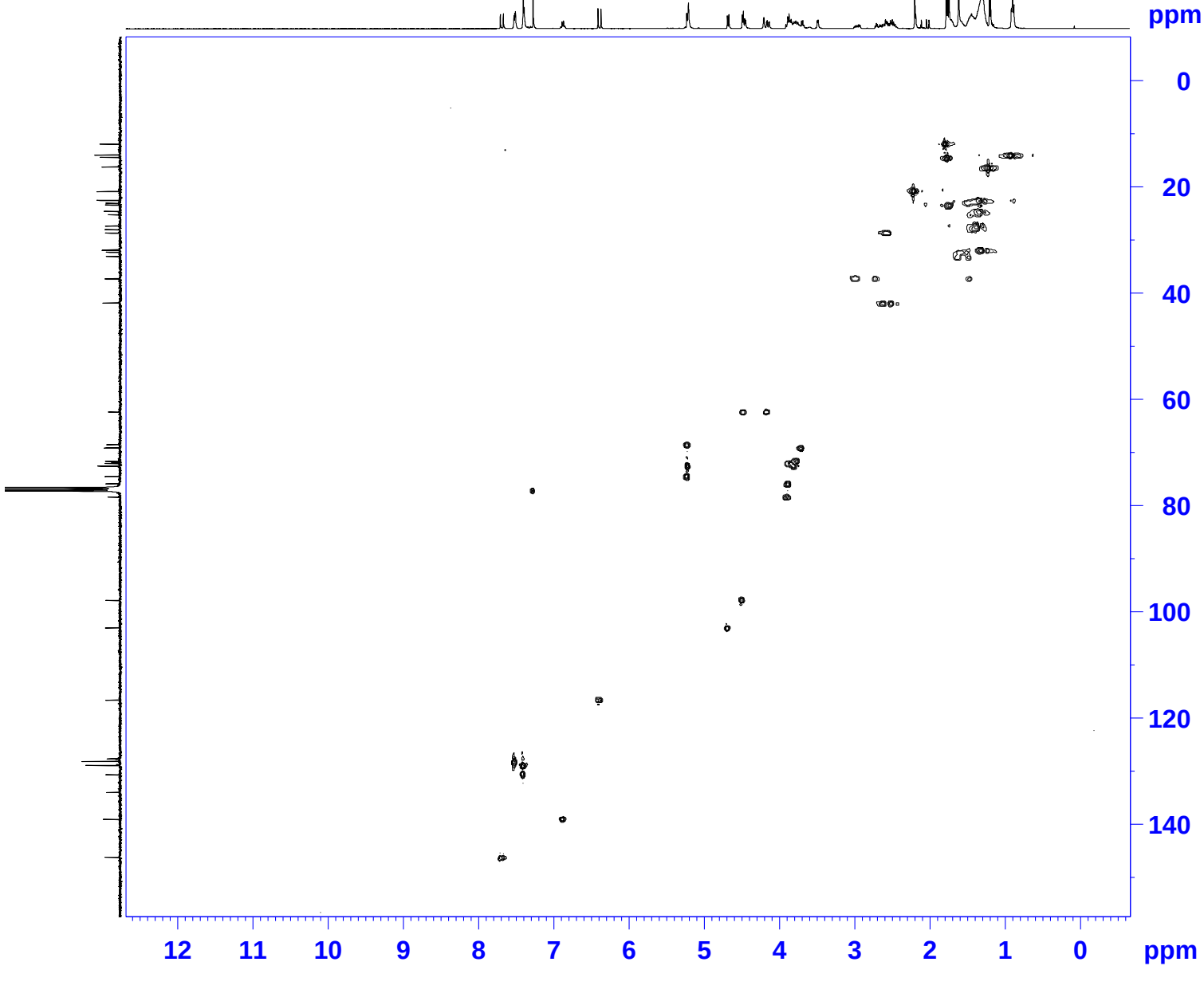


NAME	EDB-Ipom-1-68-C-140925
EXPNO	3
PROCNO	1
Date_	20141011
Time	8.23
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	cosygpqf
TD	2048
SOLVENT	CDCl3
NS	2
DS	0
SWH	5341.880 Hz
FIDRES	2.608340 Hz
AQ	0.1917428 sec
RG	128
DW	93.600 usec
DE	6.50 usec
TE	293.1 K
D0	0.00000300 sec
D1	1.48689198 sec
D13	0.00000400 sec
D16	0.00020000 sec
IN0	0.00018720 sec
======== CHANNEL f1 ========	
NUC1	1H
P0	10.00 usec
P1	10.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPZ1	10.00 %
P16	1000.00 usec
ND0	1
TD	128
SFO1	400.1324 MHz
FIDRES	41.733440 Hz
SW	13.350 ppm
FnMODE	QF
SI	1024
SF	400.1300040 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	QF
SF	400.1300033 MHz
WDW	SINE
SSB	0
LB	0.00 Hz
GB	0

EDB-Ipom-1-68-C-140925 in CDCl3



11R epimer

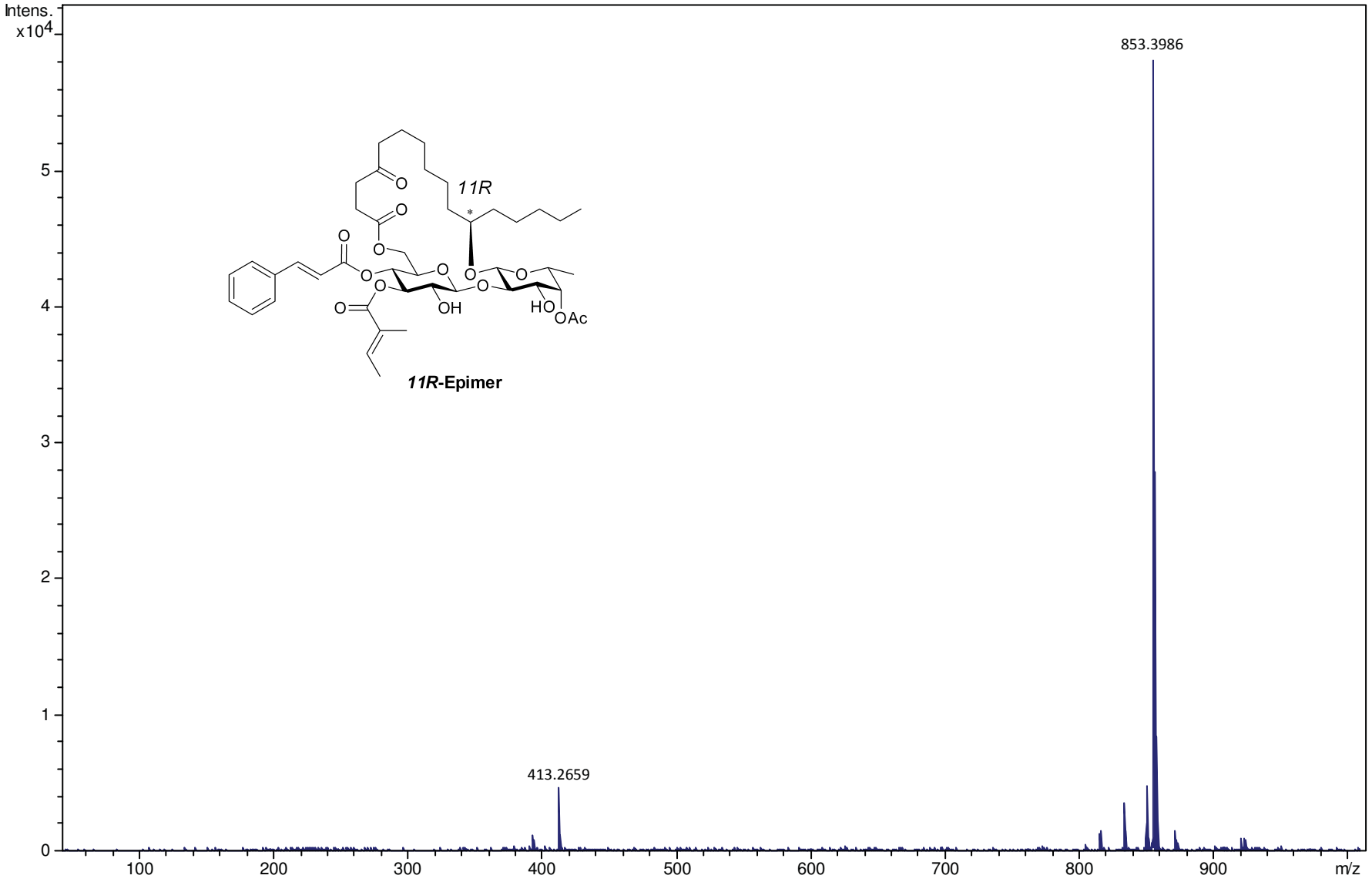


NAME	EDB-Ipom-1-68-C-140925
EXPNO	4
PROCNO	1
Date_	20141011
Time	8.31
INSTRUM	spect
PROBHD	5 mm PABBO BB-
PULPROG	hsqcetgpsi
TD	1024
SOLVENT	CDCl3
NS	2
DS	16
SWH	5341.880 Hz
FIDRES	5.216680 Hz
AQ	0.0958964 sec
RG	2050
DW	93.600 usec
DE	6.50 usec
TE	292.4 K
CNST2	145.0000000
D0	0.00000300 sec
D1	1.50000000 sec
D4	0.00172414 sec
D11	0.03000000 sec
D13	0.00000400 sec
D16	0.00020000 sec
D24	0.00110000 sec
IN0	0.00003000 sec
ZGOPTNS	
======== CHANNEL f1 ========	
NUC1	1H
P1	10.00 usec
P2	20.00 usec
P28	1000.00 usec
PL1	-3.50 dB
PL1W	31.17620277 W
SFO1	400.1324057 MHz
======== CHANNEL f2 ========	
CPDPRG2	garp
NUC2	13C
P3	10.00 usec
P4	20.00 usec
PCPD2	75.00 usec
PL2	-2.10 dB
PL12	15.40 dB
PL2W	58.37759399 W
PL12W	1.03811681 W
SFO2	100.6202727 MHz
====== GRADIENT CHANNEL =====	
GPNAM1	SINE.100
GPNAM2	SINE.100
GPZ1	80.00 %
GPZ2	20.10 %
P16	1000.00 usec
ND0	2
TD	256
SFO1	100.6203 MHz
FIDRES	65.104164 Hz
SW	165.639 ppm
FnMODE	Echo-Antiecho
SI	1024
SF	400.1300000 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0
PC	1.00
SI	1024
MC2	echo-antiecho
SF	100.6127690 MHz
WDW	QSINE
SSB	2
LB	0.00 Hz
GB	0

ESI Mass Spectrum

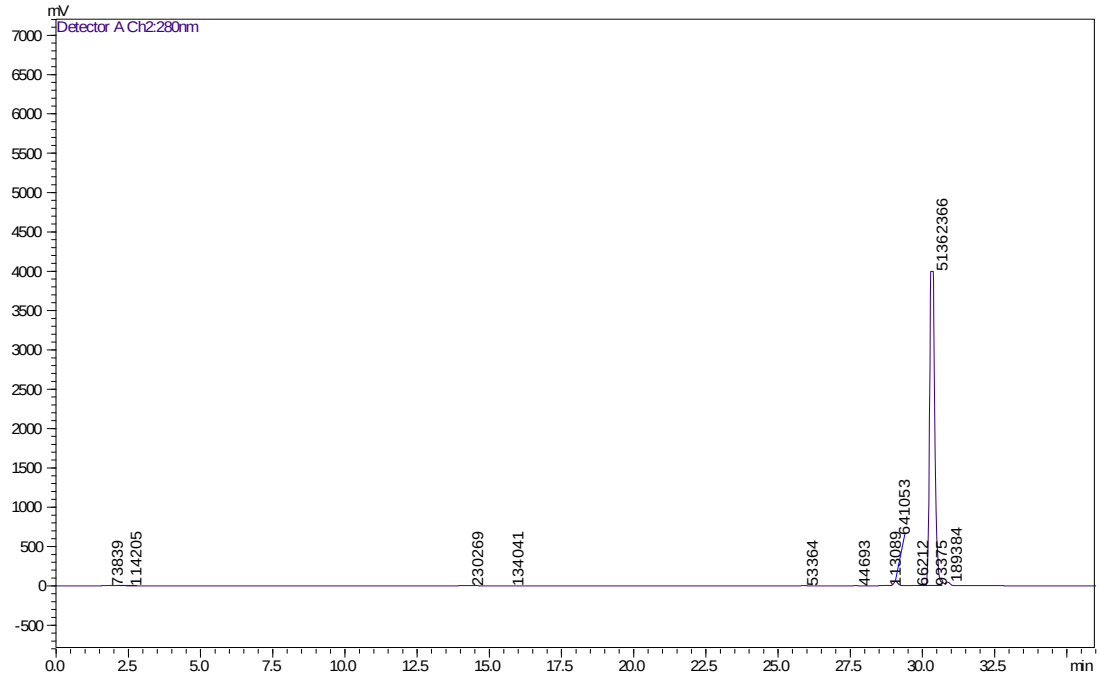
Sample Name: EI-68
Sample id#: 982220
Instrument: ultrOTOF-Q

11/6/2014



***11R*-Epimer**

HPLC for **Ipomoeassin F** (96.7%; MeCN/H_2O 1:9, 0–5 min; increase to 9:1 over 20 min, 5–25 min; 9:1, 25–35 min; finally return to 1:9 in a minute, 35–36 min; 1 mL/min, t_R = 30.4 min).



HPLC for **11R-Epimer** (95.3%; MeCN/H_2O 3:1; 1 mL/min, t_R = 17.1 min)