Supporting Information

for

Asymmetric Au-catalyzed cycloisomerization of 1,6-enynes: An entry to bicyclo[4.1.0]heptene

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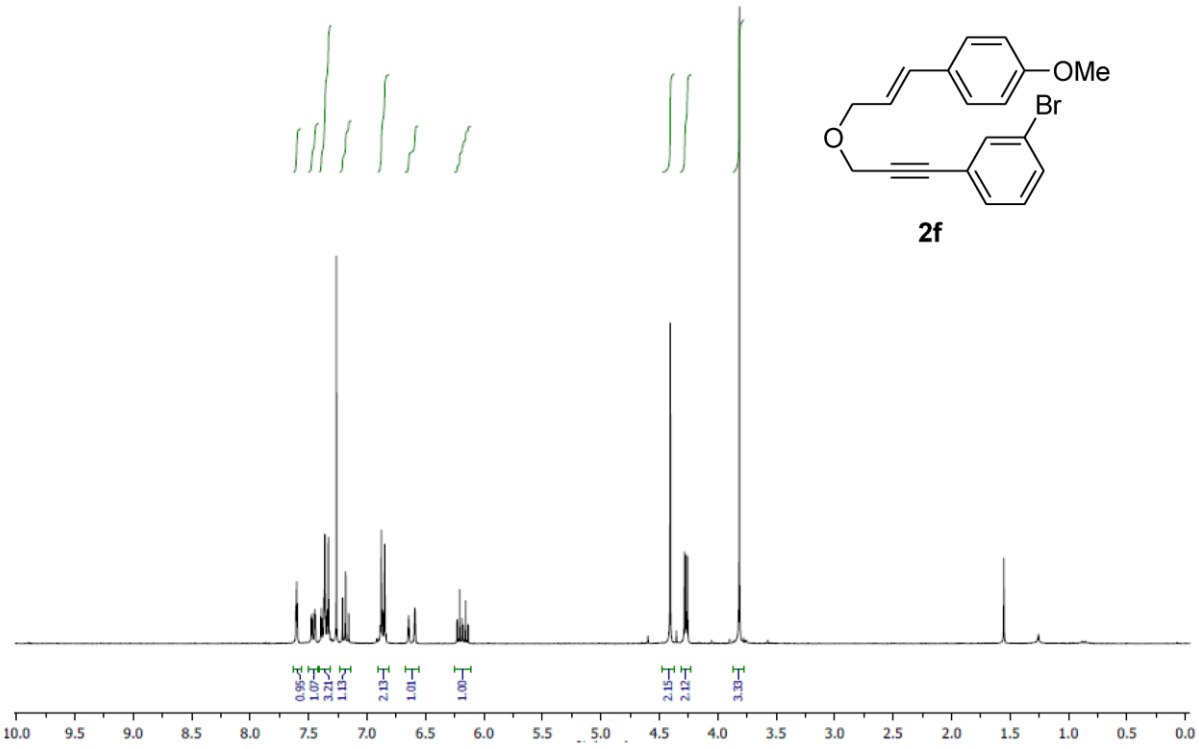
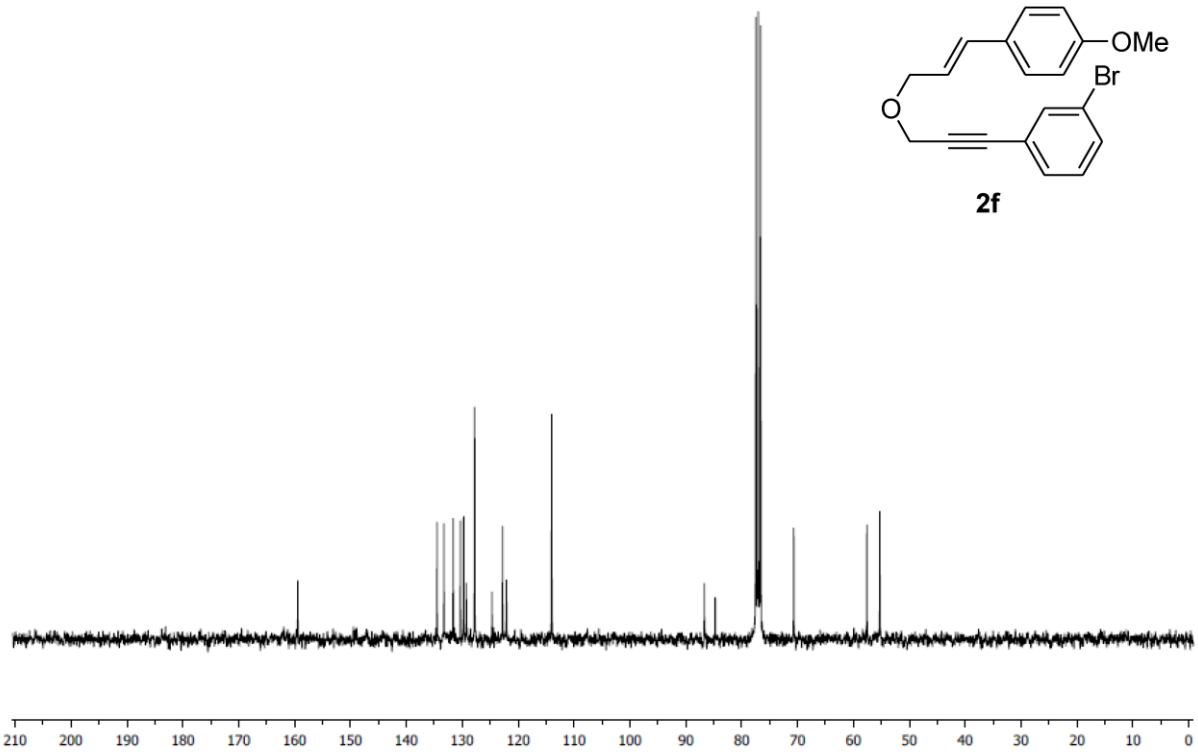
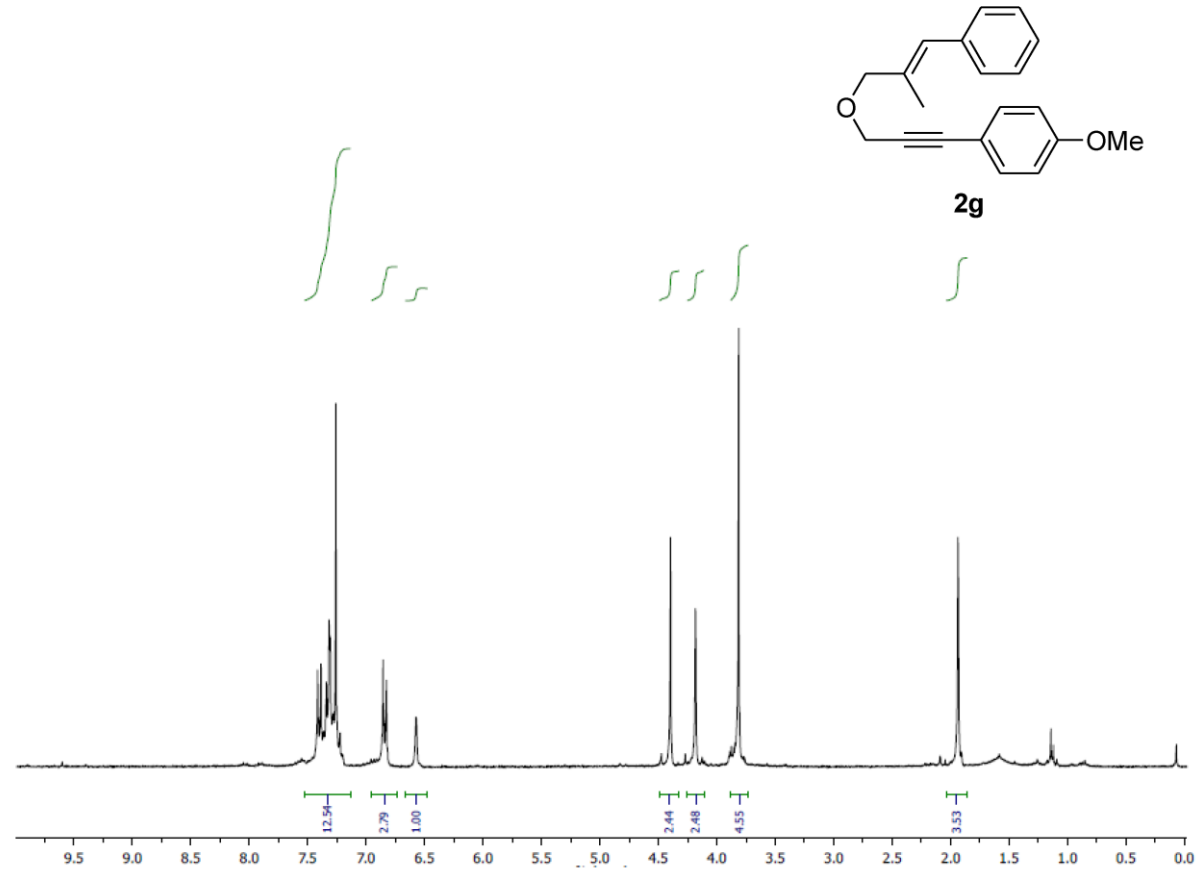
Spectral data

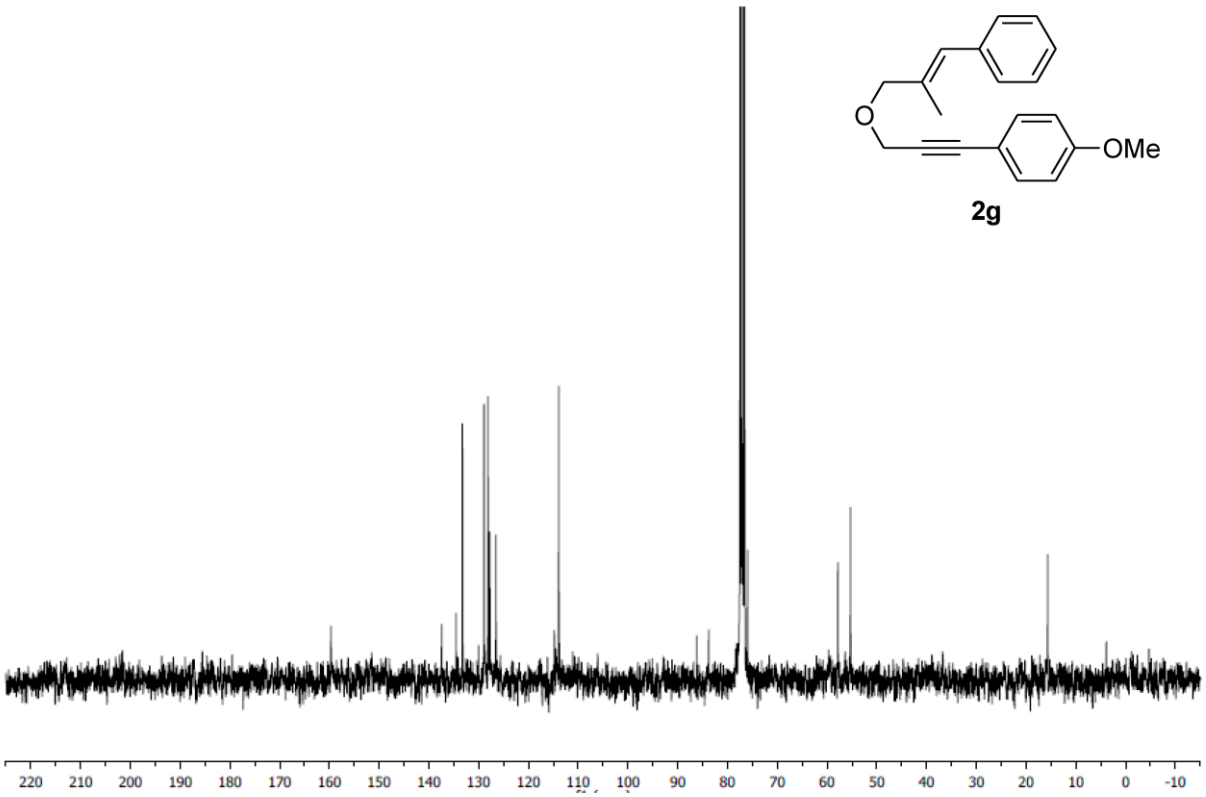


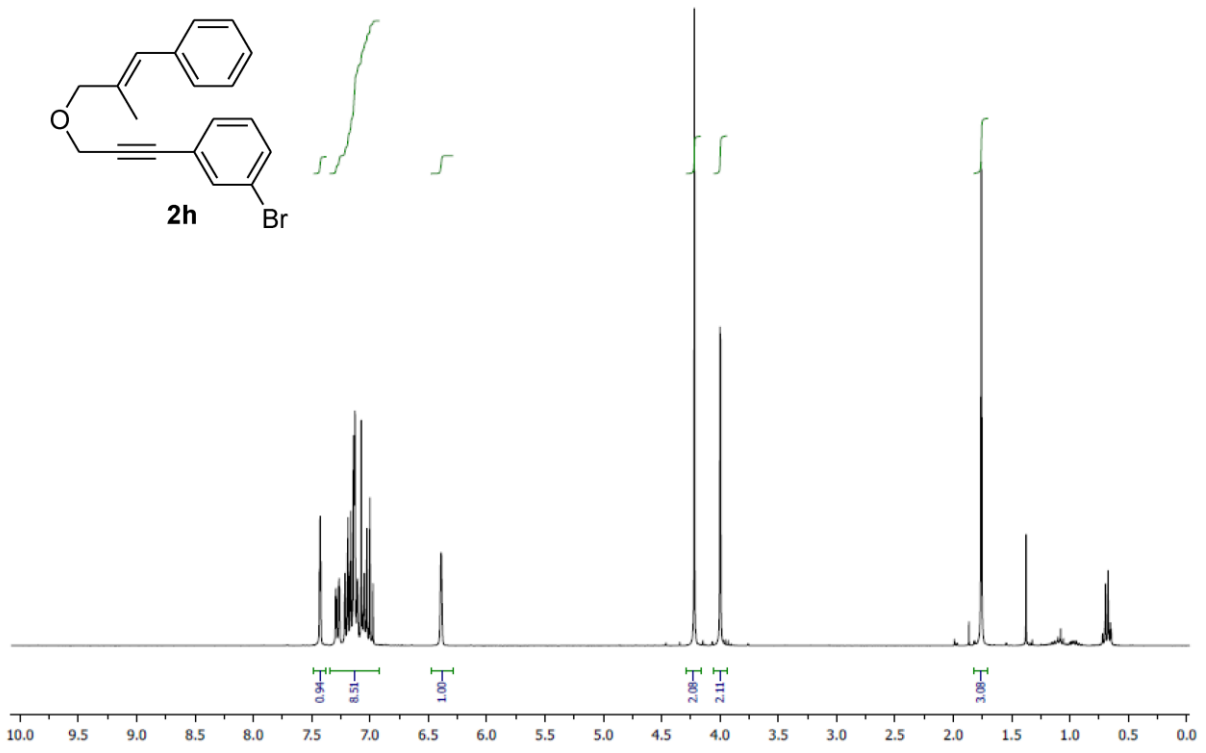

OMe
Br
O
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

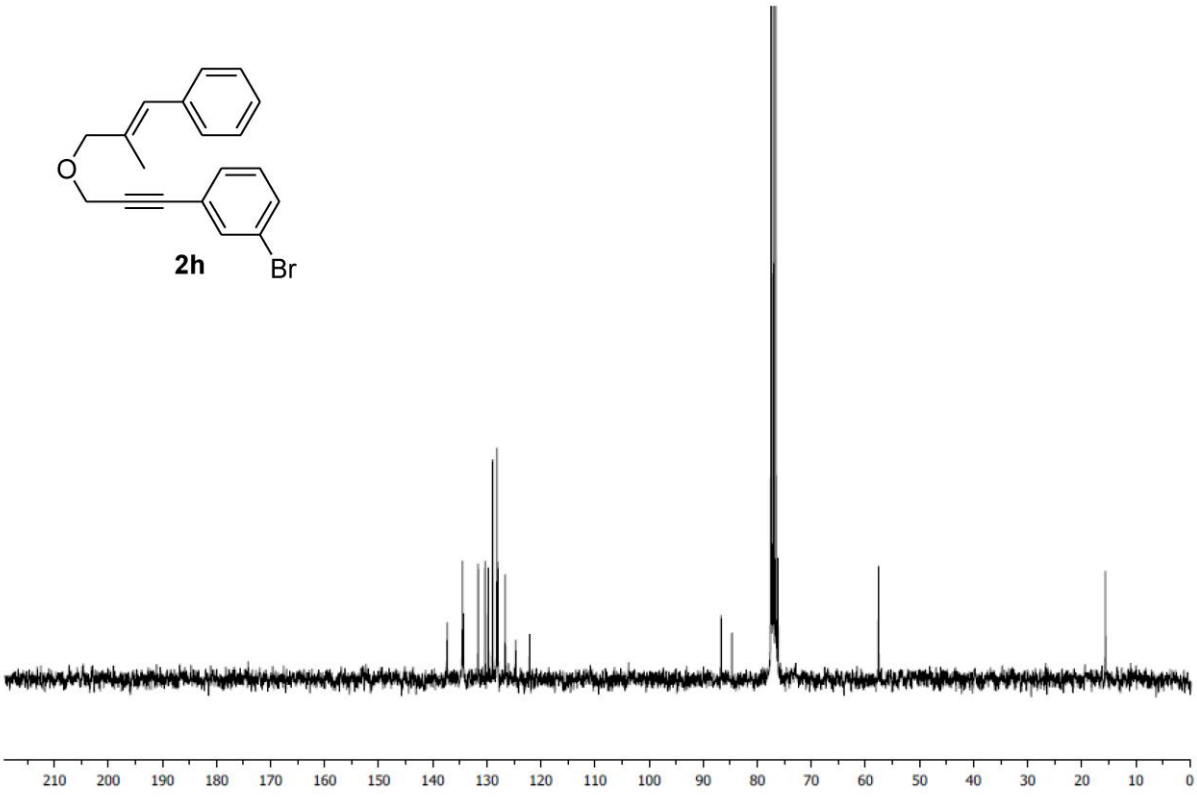
2f

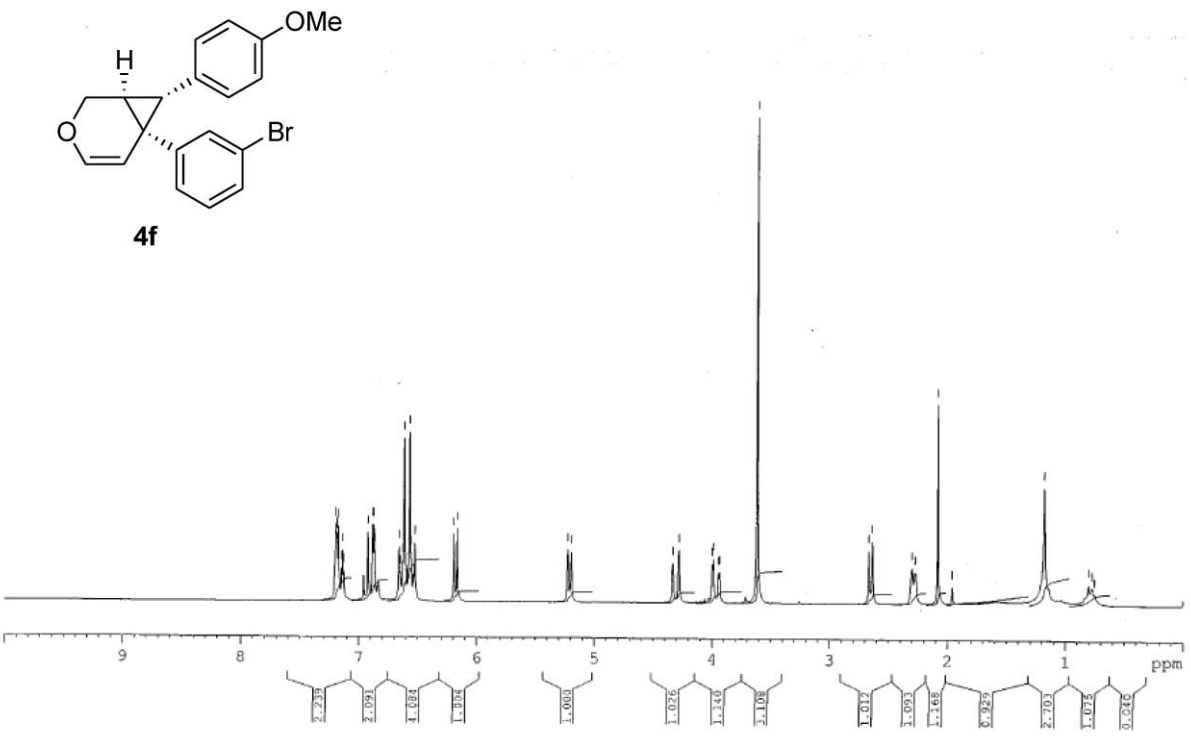

O
OMe
12.54
2.79
1.00
2.44
2.48
4.55
3.53
9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0

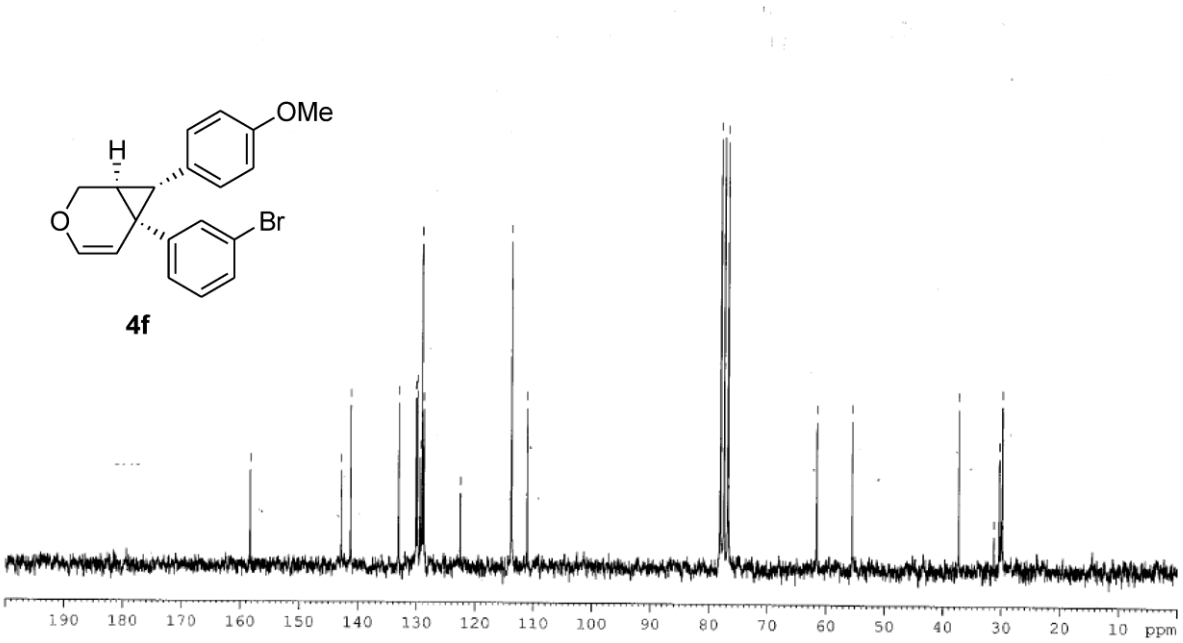
2g


OMe
2g
220 210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 -10


2h
Br
0.94
8.51
1.00
2.09
2.11
3.08
10.0 9.5 9.0 8.5 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 0.0

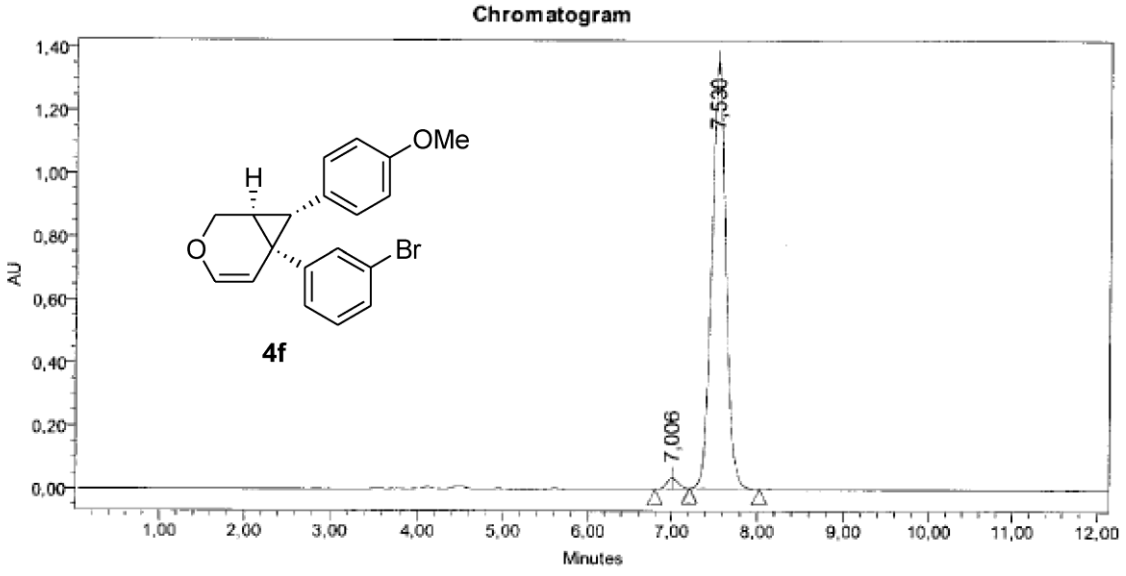

O
Br
2h
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

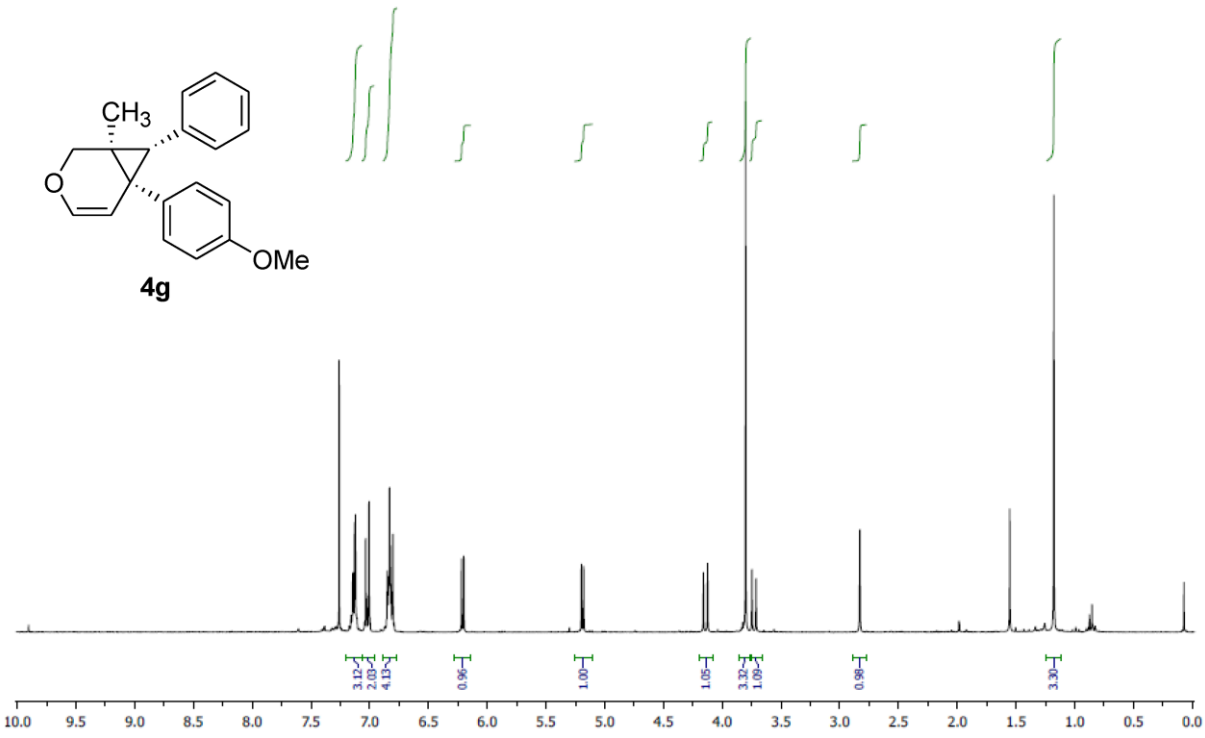

OMe
H
O
Br
4f
9 8 7 6 5 4 3 2 1 ppm
2.295
2.091
1.084
1.004
1.000
1.026
1.140
3.108
1.010
1.093
1.168
0.929
2.703
1.075
0.040

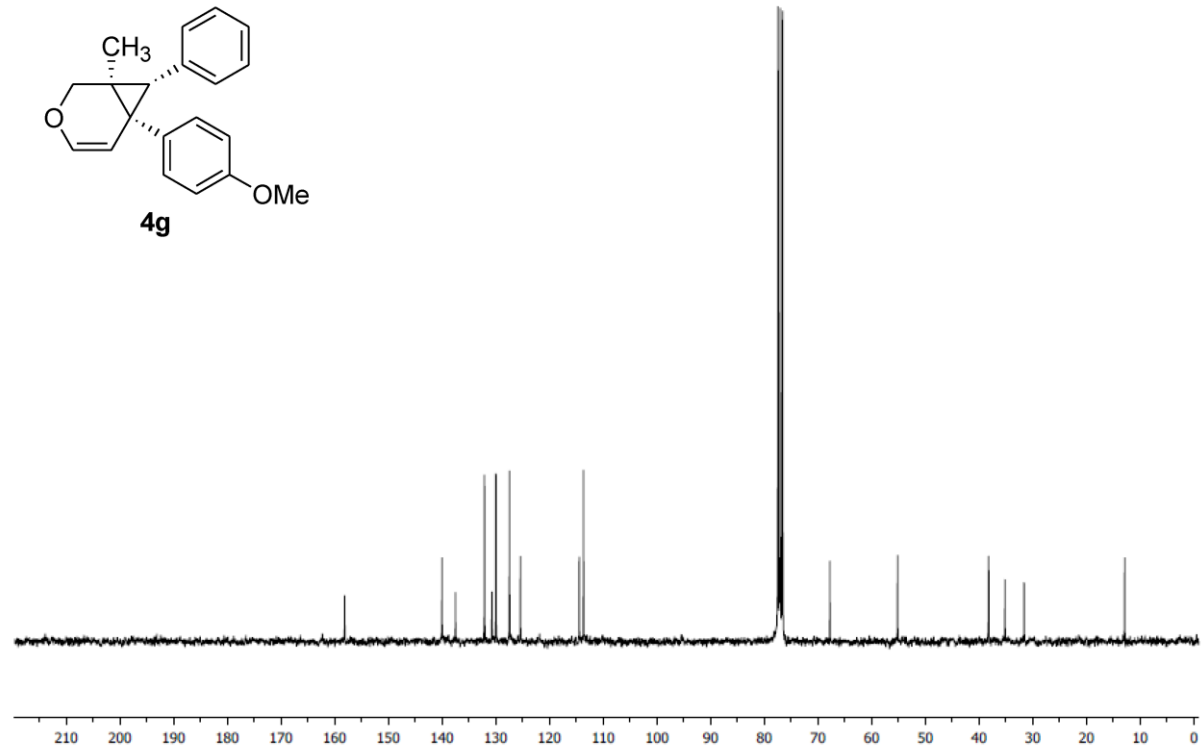


Column : Chiracel AD-H
Eluant : Hex/i-PrOH 97/3
Flow (mL/min) : 1,0

	Retention Time (min)	Area	%Area
1	7,006	319515	2,04
2	7,530	15342711	97,96

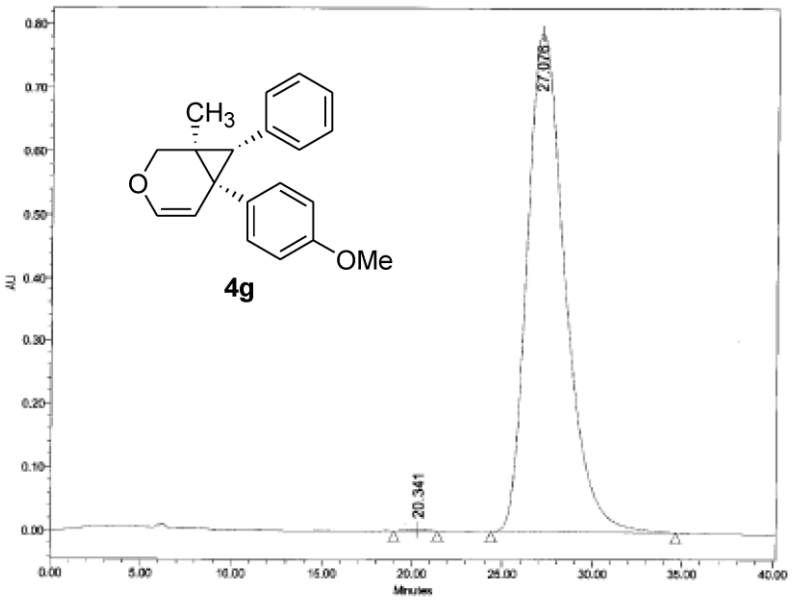


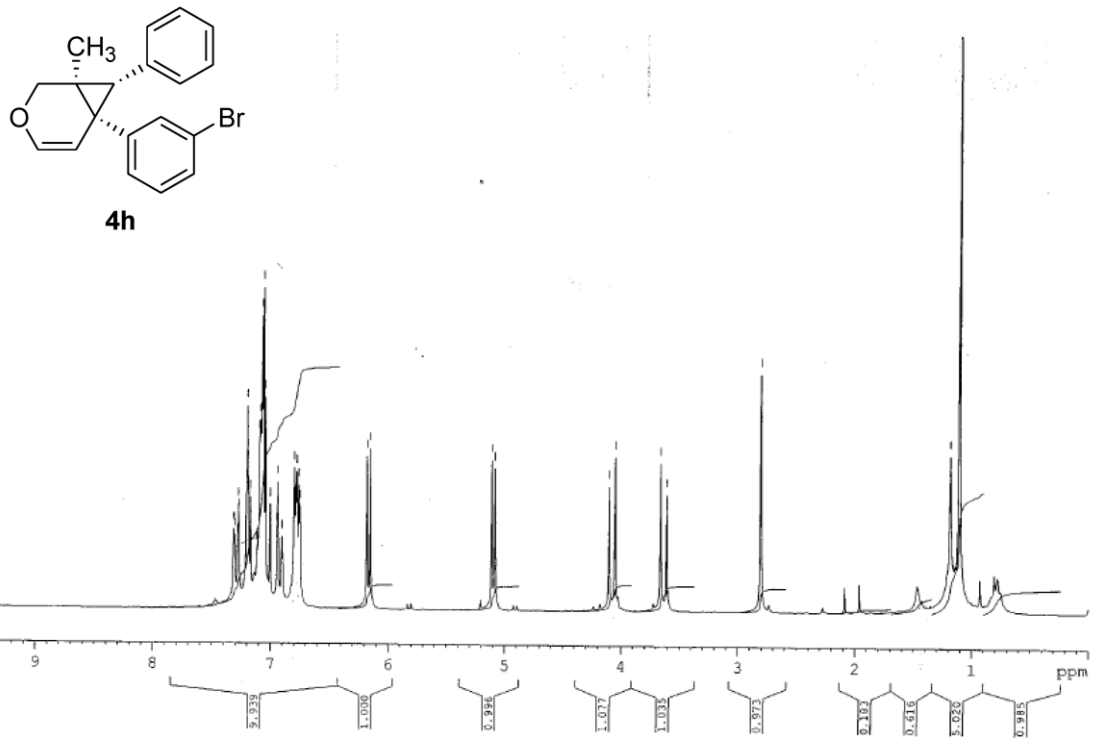

CH3
O
OMe
4g
3.12
2.03
4.13
0.96
1.00
1.05
3.32
1.09
0.98
3.30
10.0 9.5 9.0 8.5 8.0 7.5 7.0 6.5 6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0 0.5 0.0

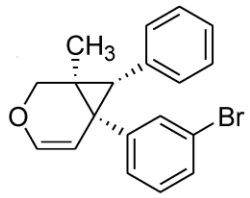

CH3
O
OMe
4g
210 200 190 180 170 160 150 140 130 120 110 100 90 80 70 60 50 40 30 20 10 0

Eluant (Hexane/i-PrOH) : 99/1
Column : Chiracel OJ
Flow : 0.5 mL/min
T° : 20°C

	Retention Time (min)	% Area
1	20.341	0.14
2	27.076	99.86



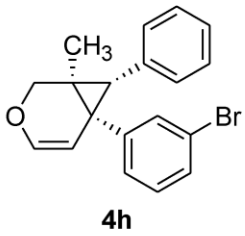




4h

Eluant (Hexane/i-PrOH) : 99.9/0.1
Column : Chiracel IA
Flow : 0.5 mL/min
T° : 20°C

	Retention Time (min)	% Area
1	11.804	13.60
2	12.607	86.40



4h