

Supporting Information

Concise Synthetic Approach to Brazilin via Pd-Catalyzed Allylic Arylation

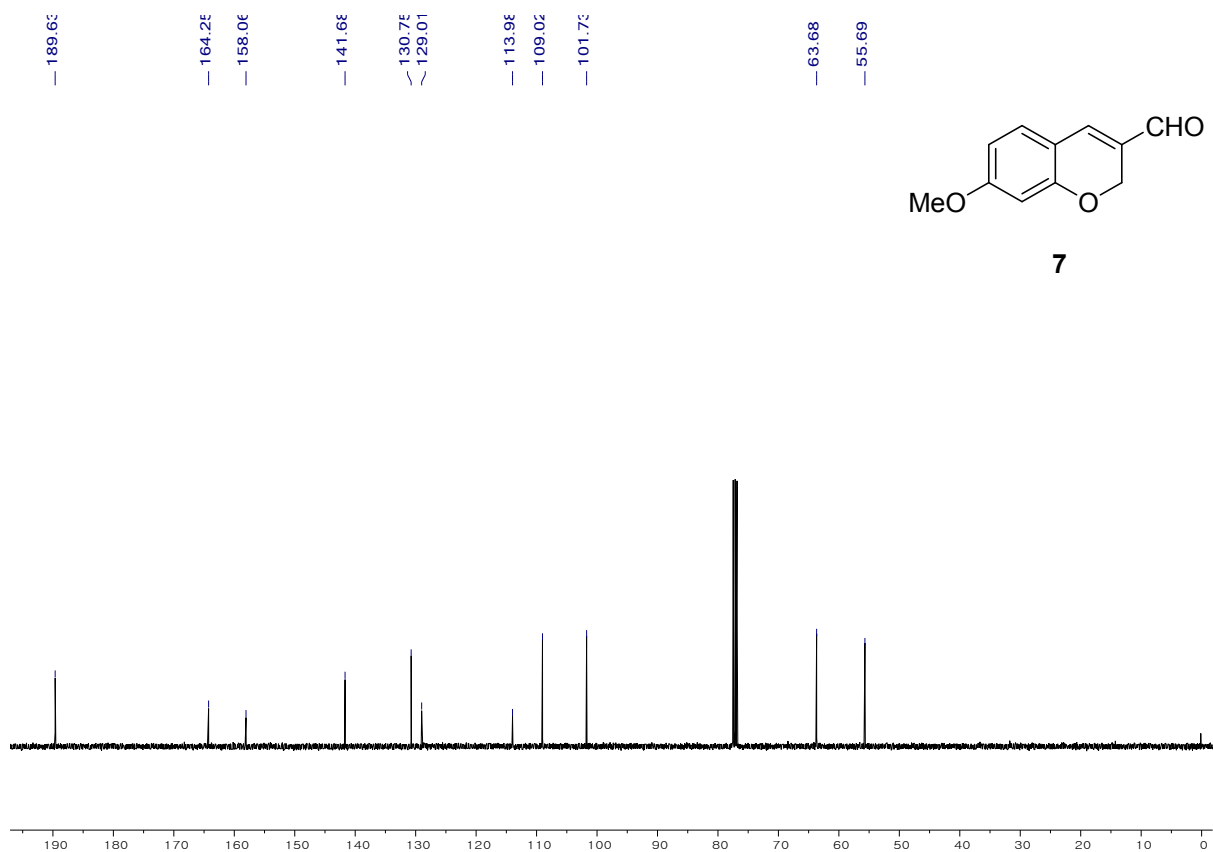
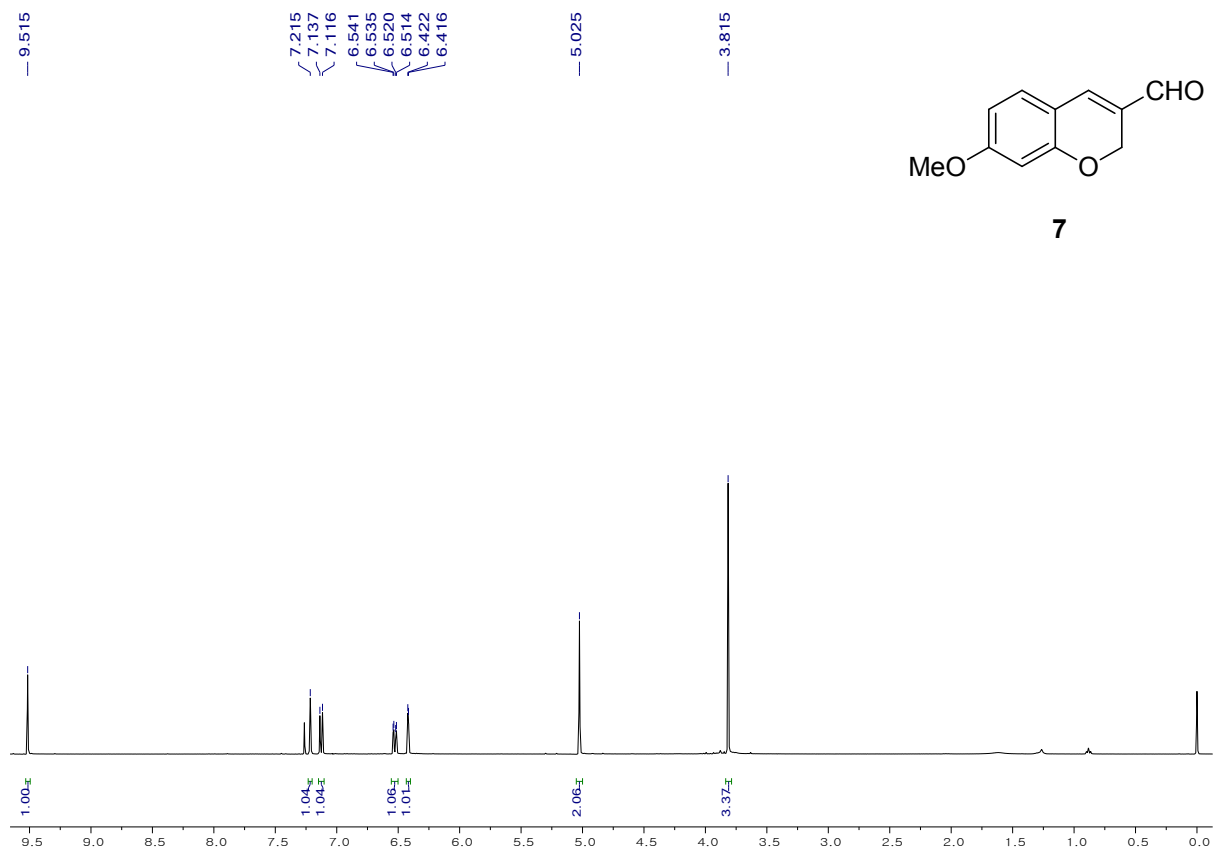
Youngeun Jung and Ikyon Kim*

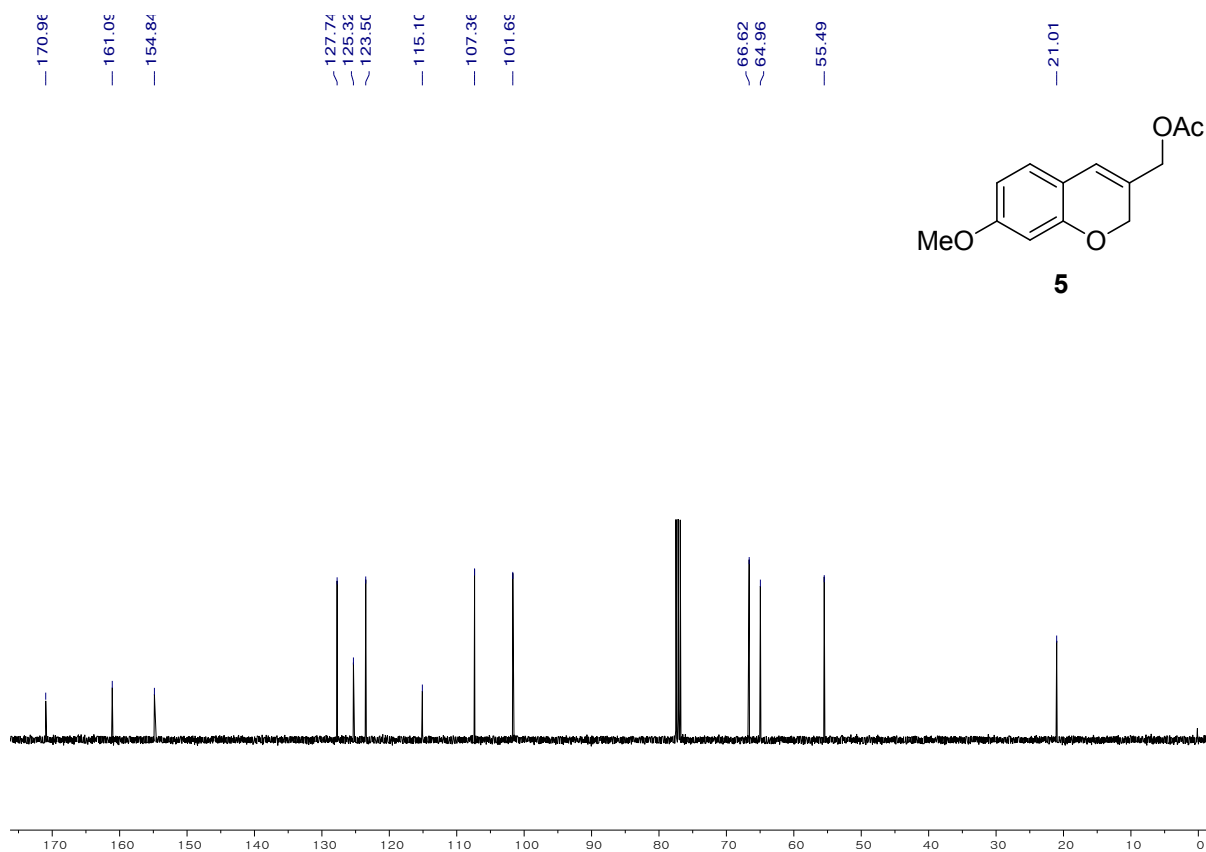
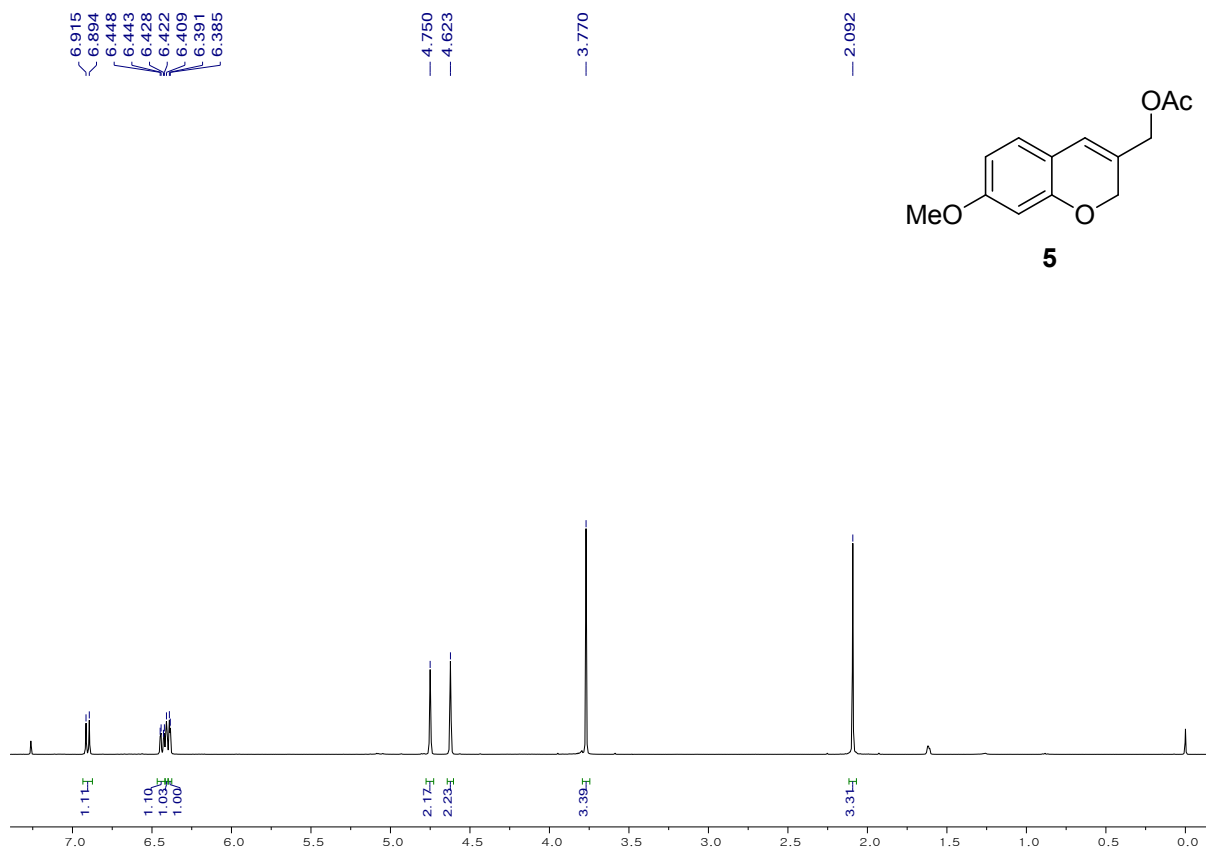
College of Pharmacy and Yonsei Institute of Pharmaceutical Sciences, Yonsei University
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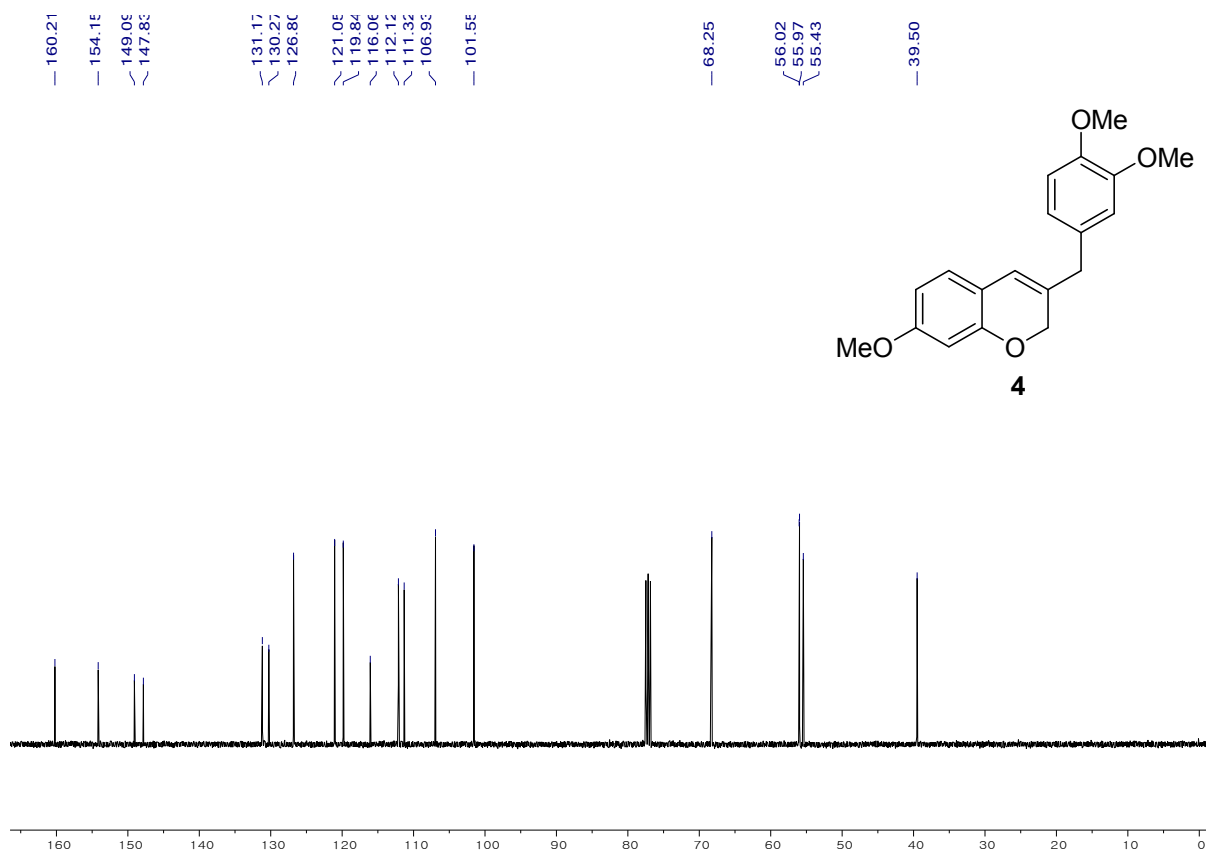
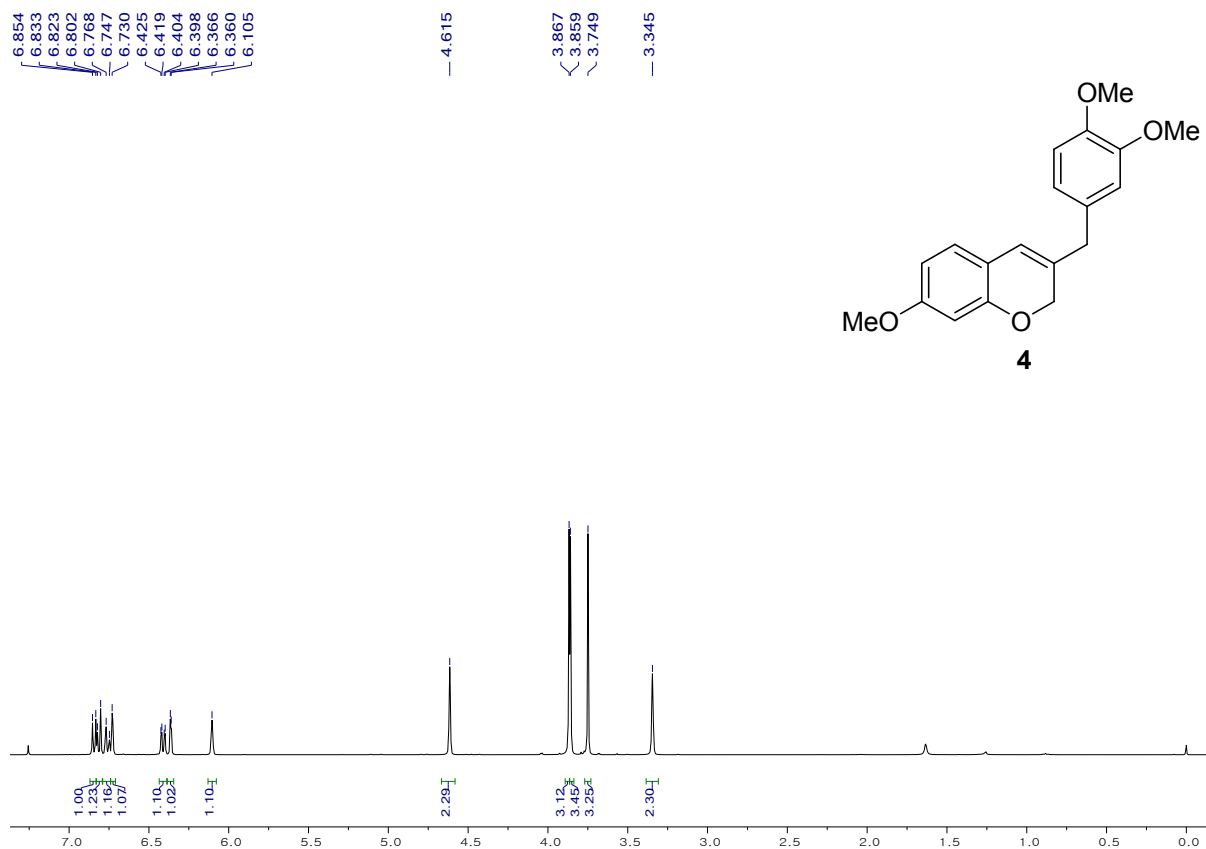
* Corresponding author. Tel.: +82 32 749 4515; fax: +82 32 749 4105; e-mail:
ikyonkim@yonsei.ac.kr

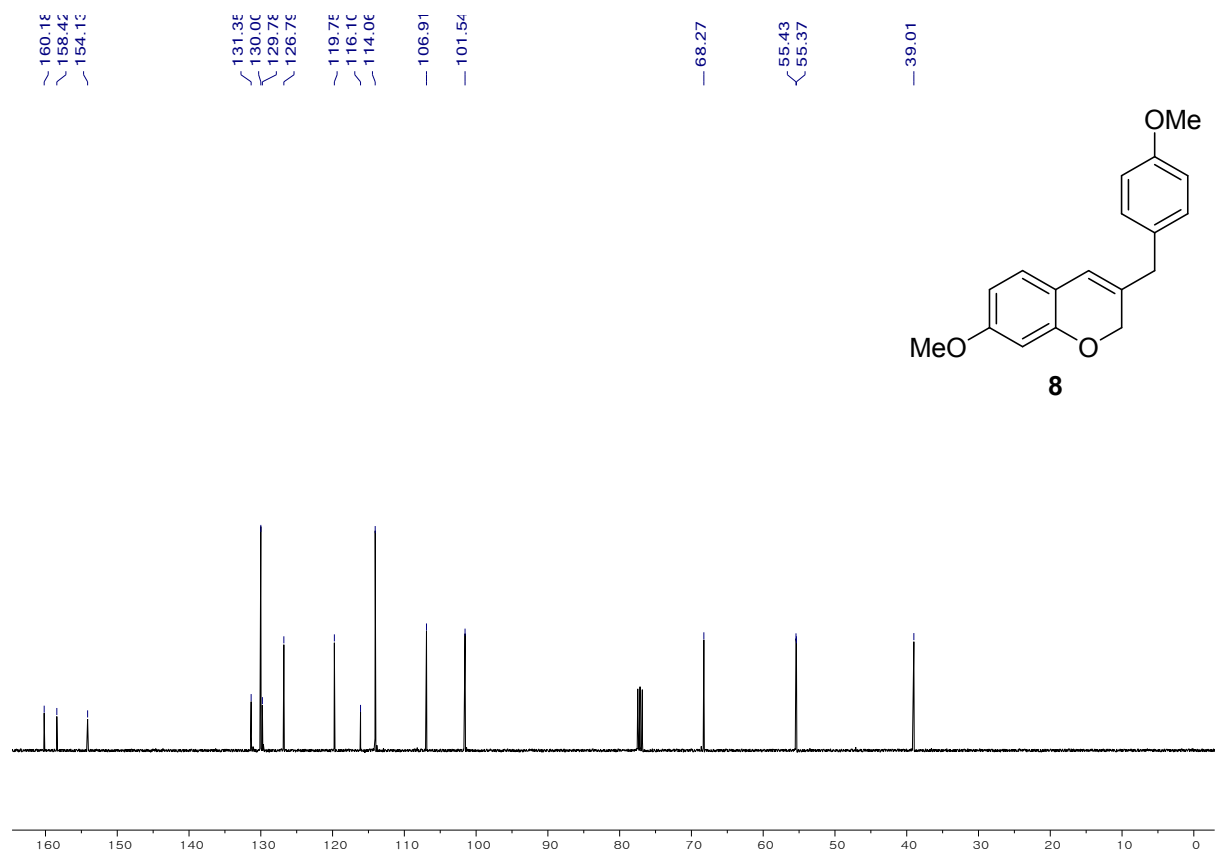
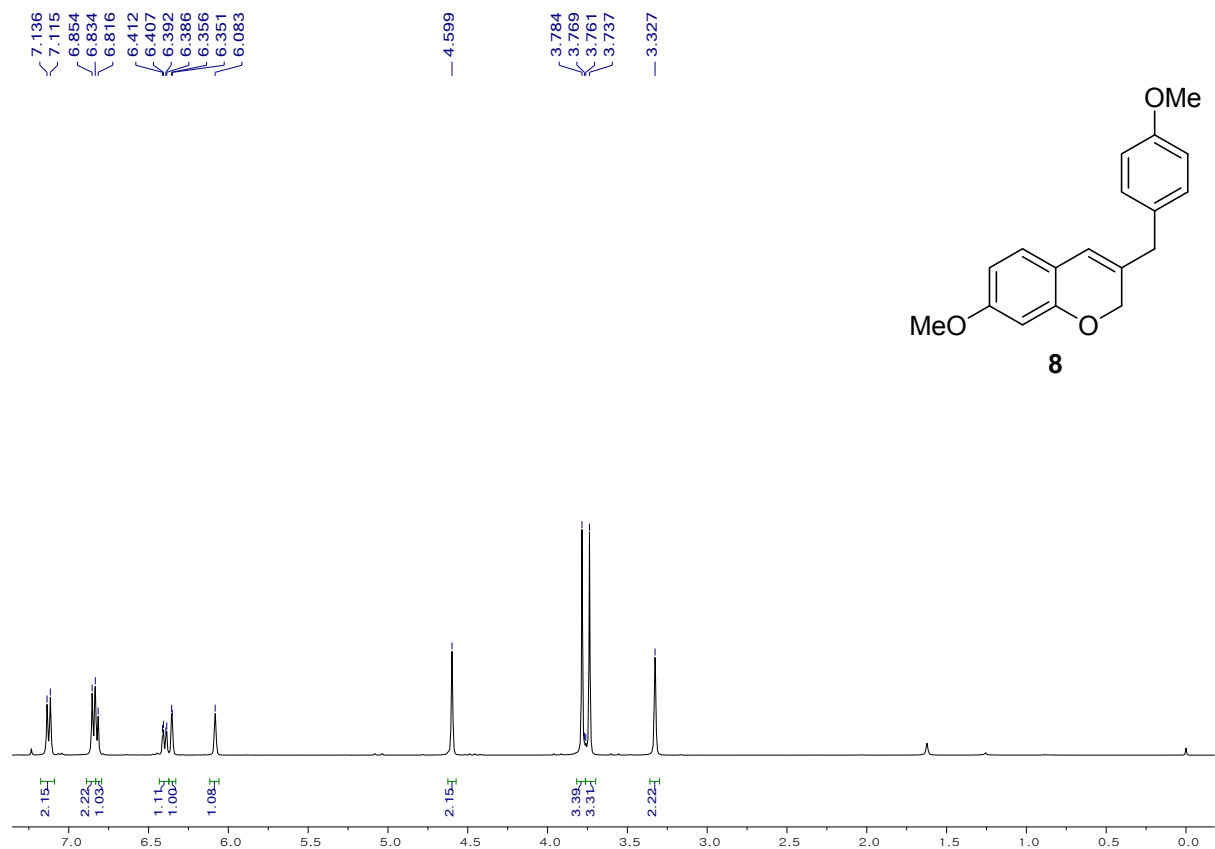
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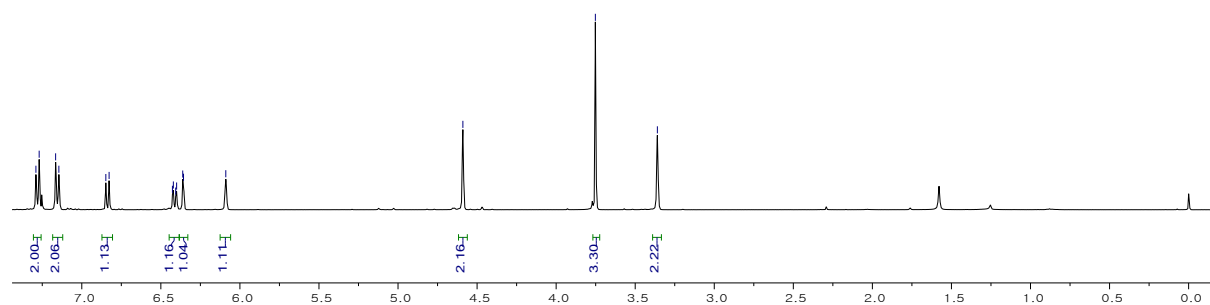
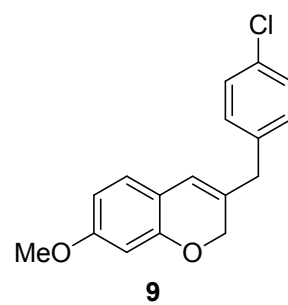


7.290
7.270
7.165
7.145
6.848
6.827
6.427
6.421
6.406
6.400
6.362
6.357
6.089

— 4.590

— 3.752

— 3.360



— 160.37

— 154.14

136.34

132.53

130.41

130.30

128.83

126.93

120.48

115.87

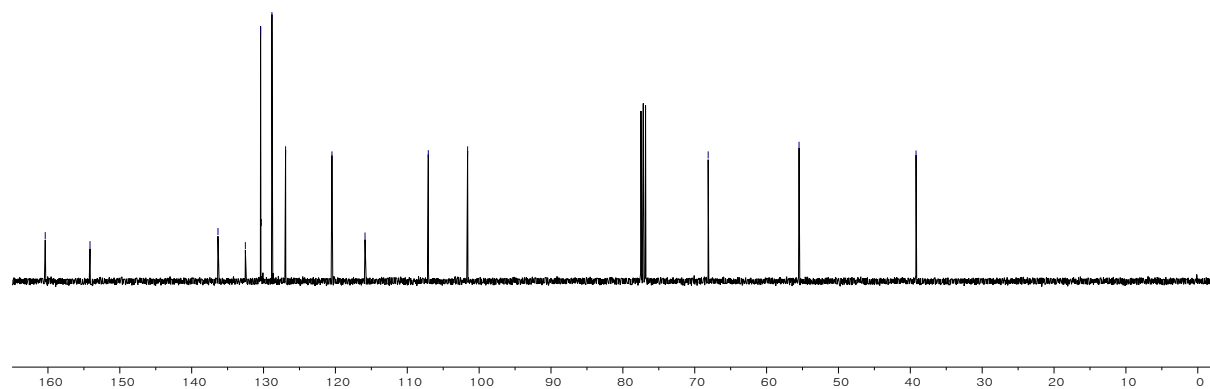
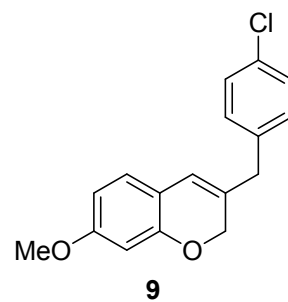
107.07

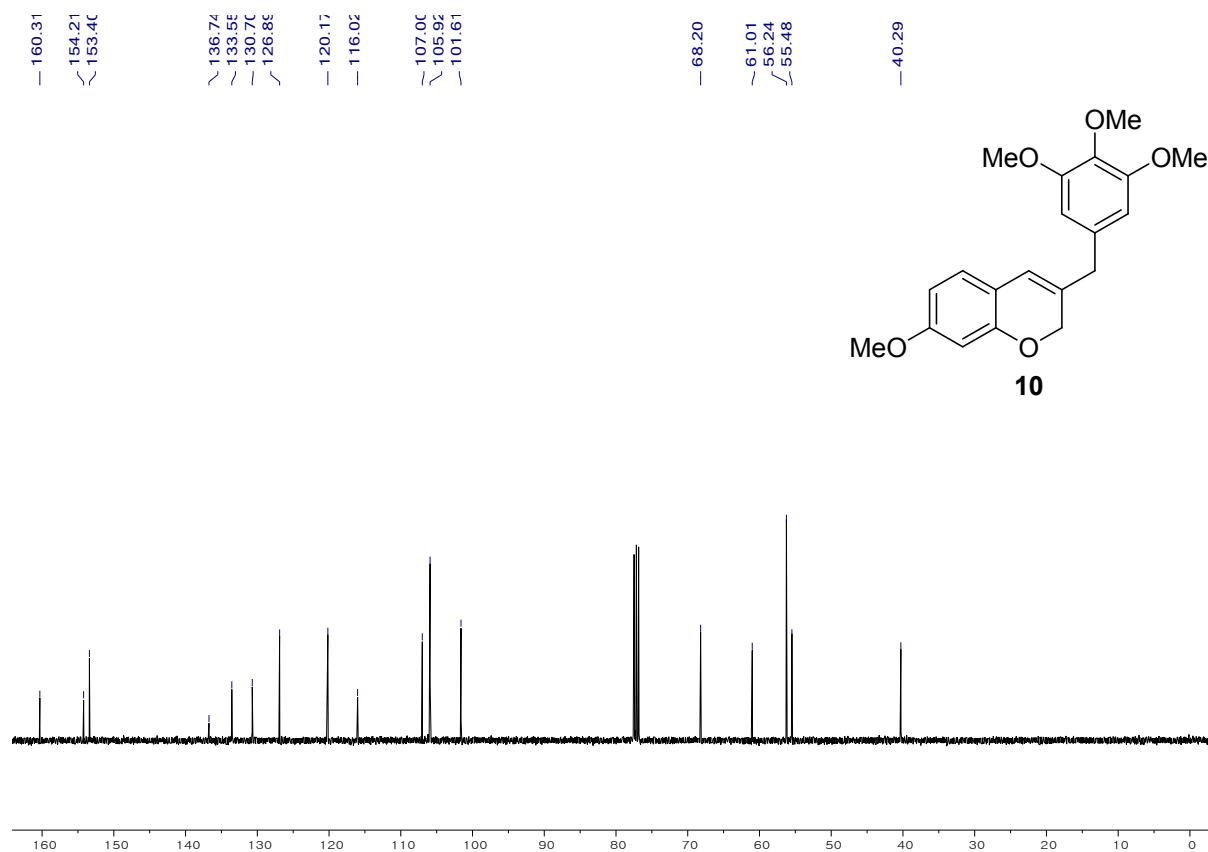
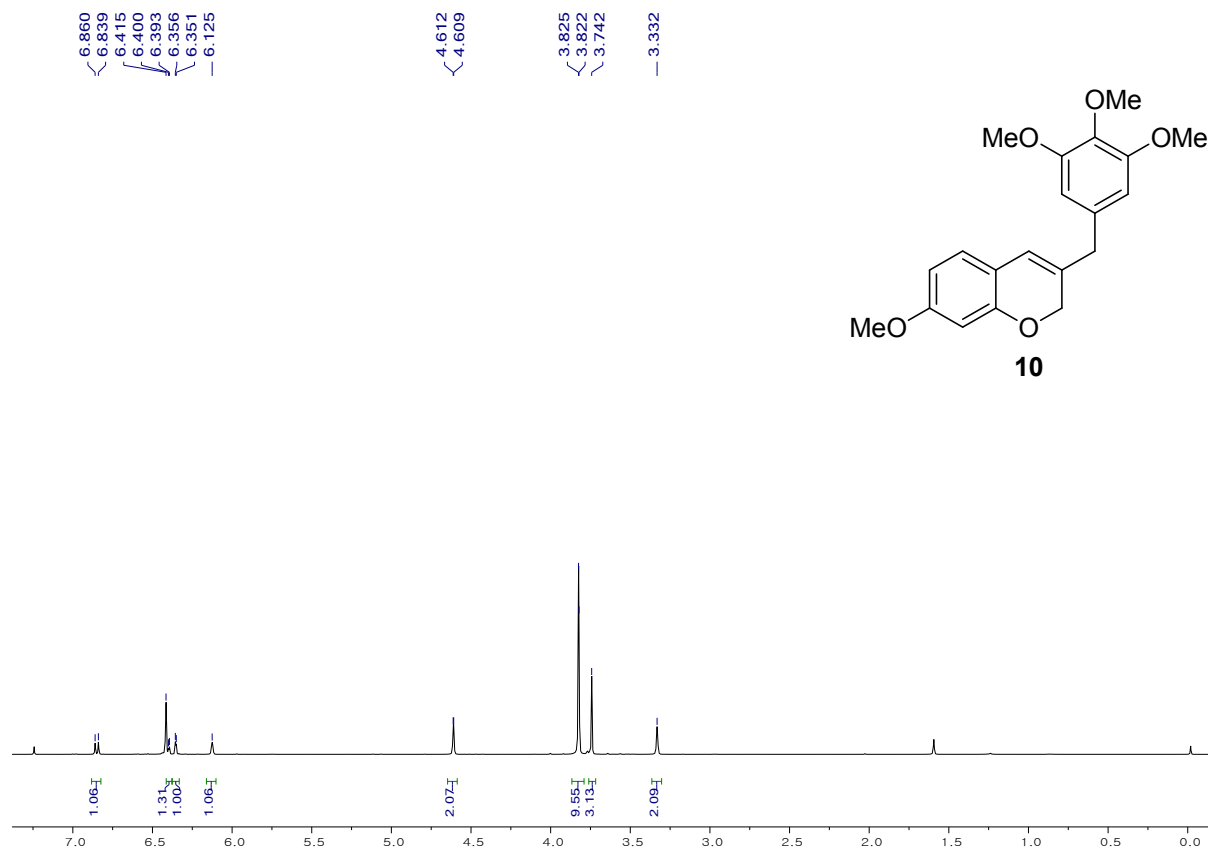
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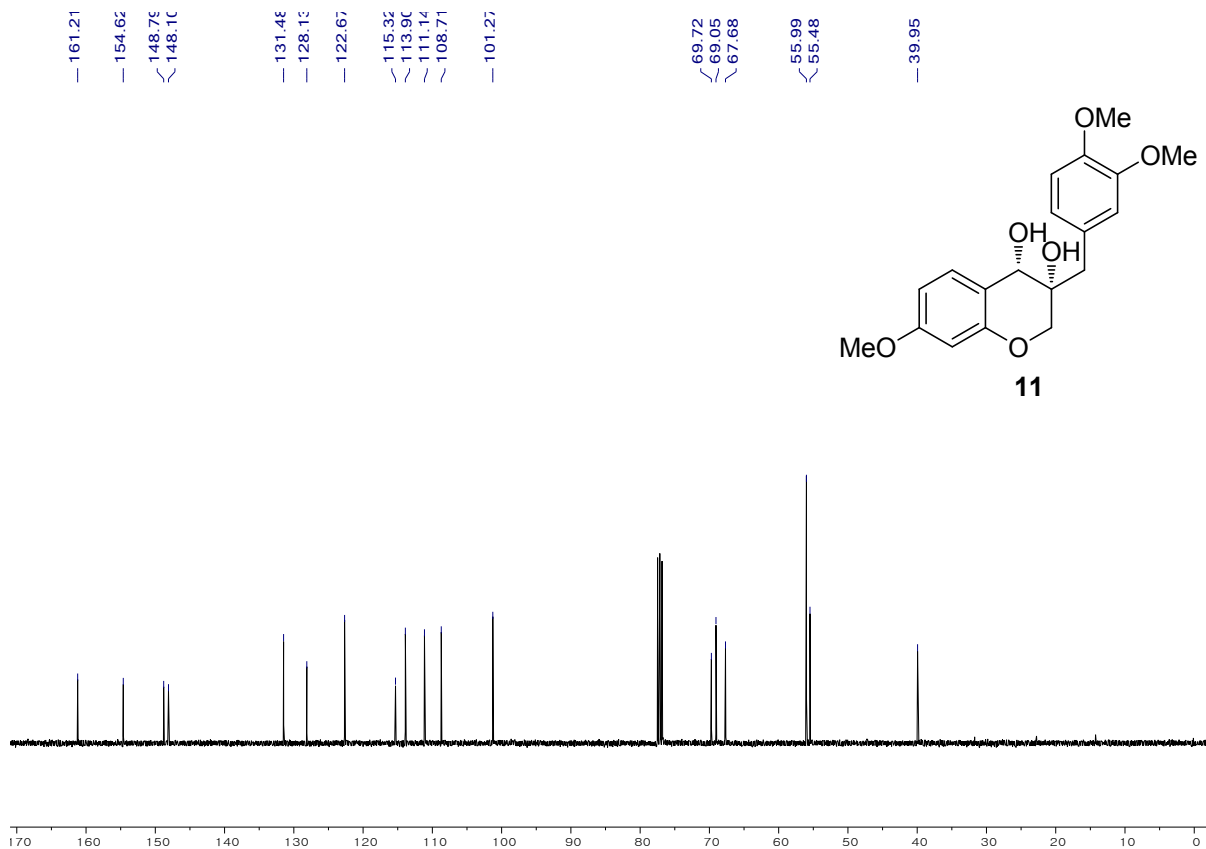
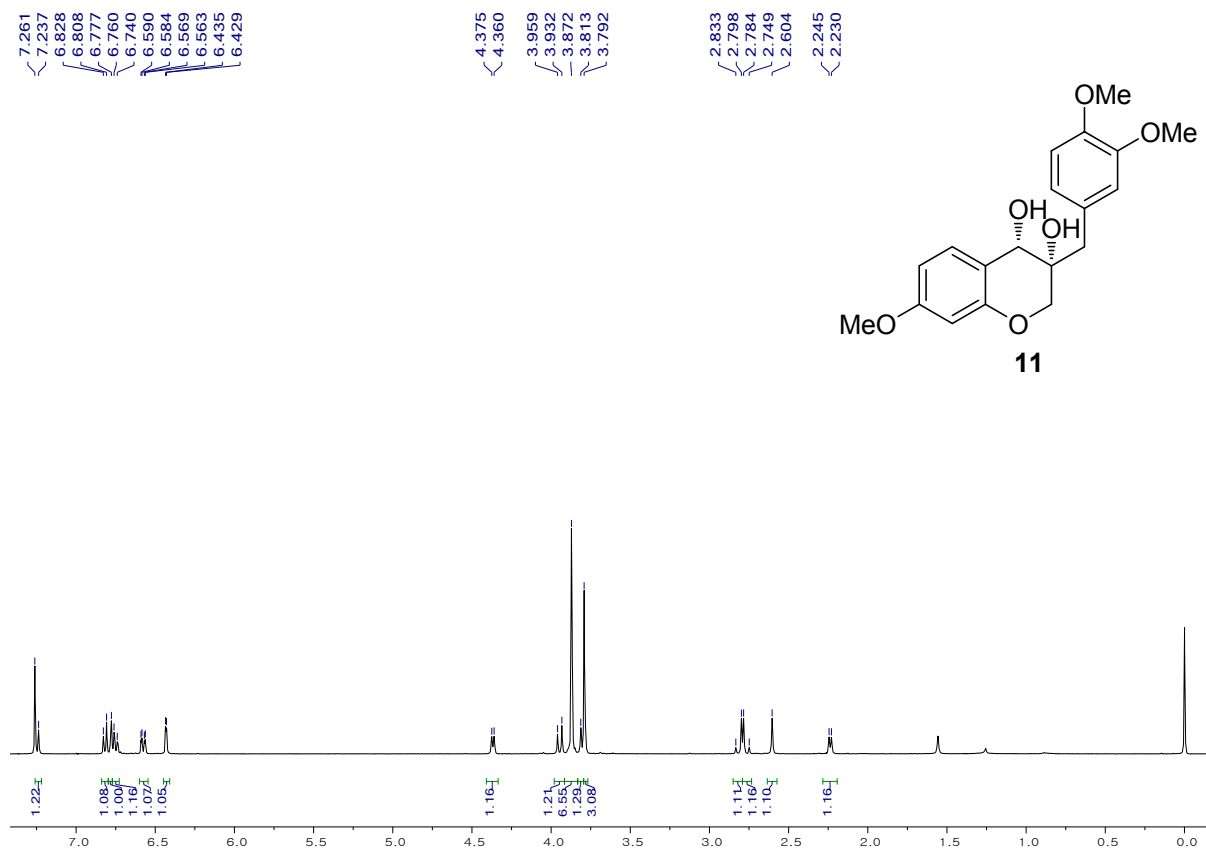
— 68.130

— 55.484

— 39.203

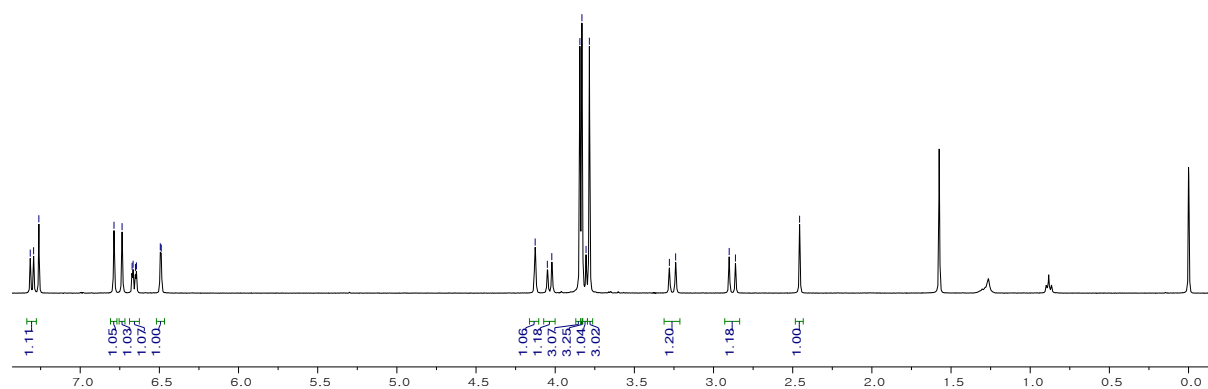
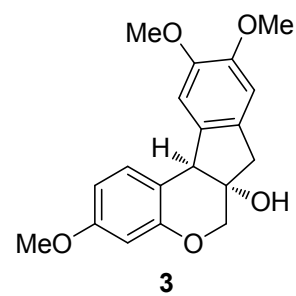




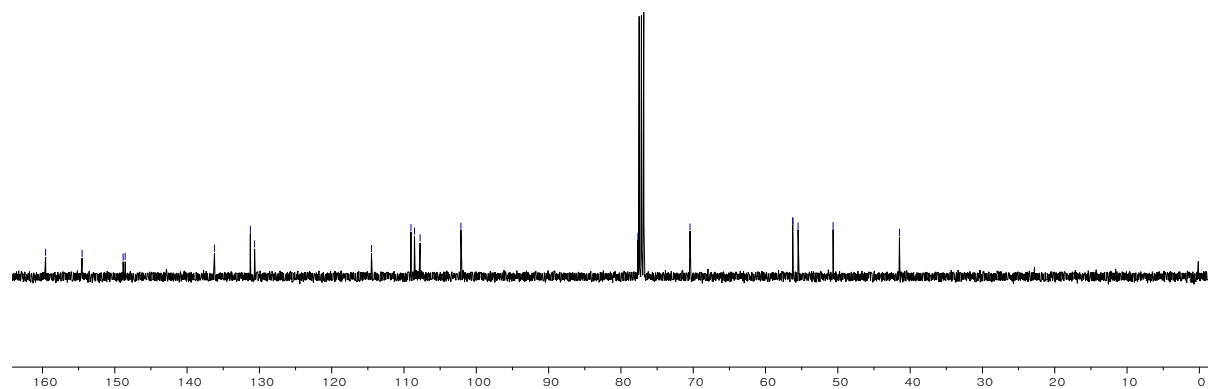
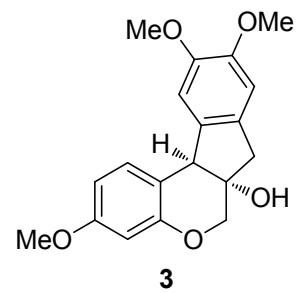


7.316
7.294
7.261
6.787
6.736
6.672
6.666
6.651
6.645
6.494
6.488

4.127
4.050
4.022
3.844
3.831
3.805
3.784
3.279
3.239
2.901
2.862
2.457



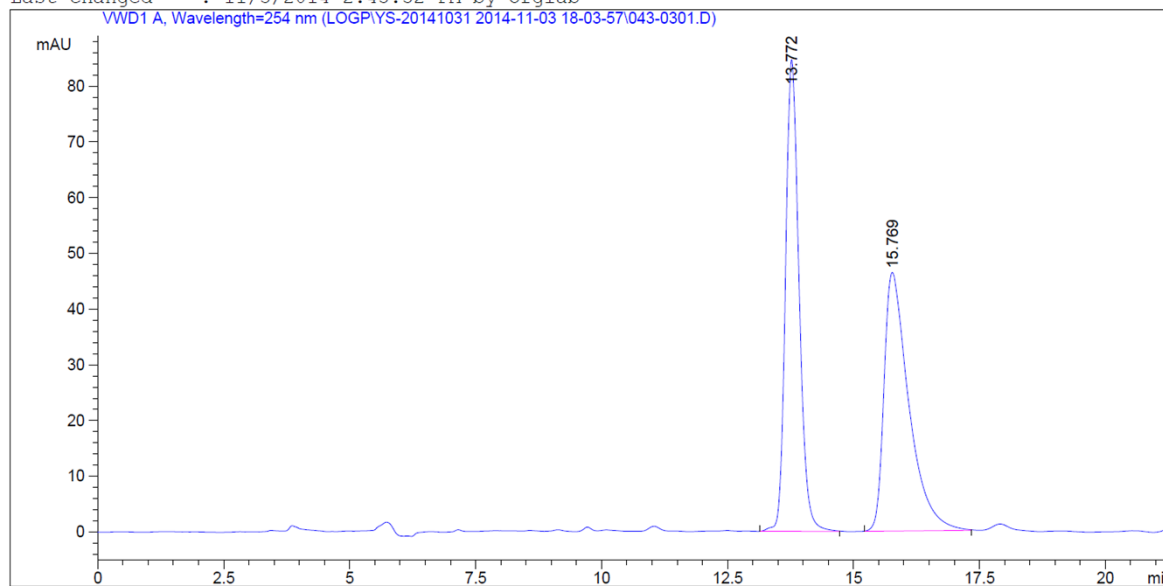
159.57
154.52
148.85
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136.21
131.25
130.66
114.50
109.04
108.55
107.78
102.13
77.65
70.45
56.24
56.21
55.50
50.66
41.48



Chiral HPLC data of racemic 11

Data File C:\CHEM32\1\DATA\LOGP\YS-20141031 2014-11-03 18-03-57\043-0301.D
Sample Name: JYE-X-14

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Acq. Operator   : Orlab                      Seq. Line :    3
Acq. Instrument : Instrument 1                Location  : Vial 43
Injection Date  : 11/3/2014 7:09:04 PM        Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : C:\Chem32\1\DATA\LOGP\YS-20141031 2014-11-03 18-03-57\YS-2014-7-22.M
Last changed    : 11/3/2014 7:07:36 PM by Orlab
                  (modified after loading)
Analysis Method : C:\CHEM32\1\METHODS\YS-2014-7-22.M
Last changed    : 11/3/2014 2:45:52 PM by Orlab
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Area Percent Report

```
=====
Sorted By      : Signal
Multiplier     : 1.0000
Dilution       : 1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU *s	Height [mAU]	Area %
1	13.772	BB	0.2868	1584.53894	84.64179	49.9193
2	15.769	BB	0.5088	1589.66345	46.41177	50.0807

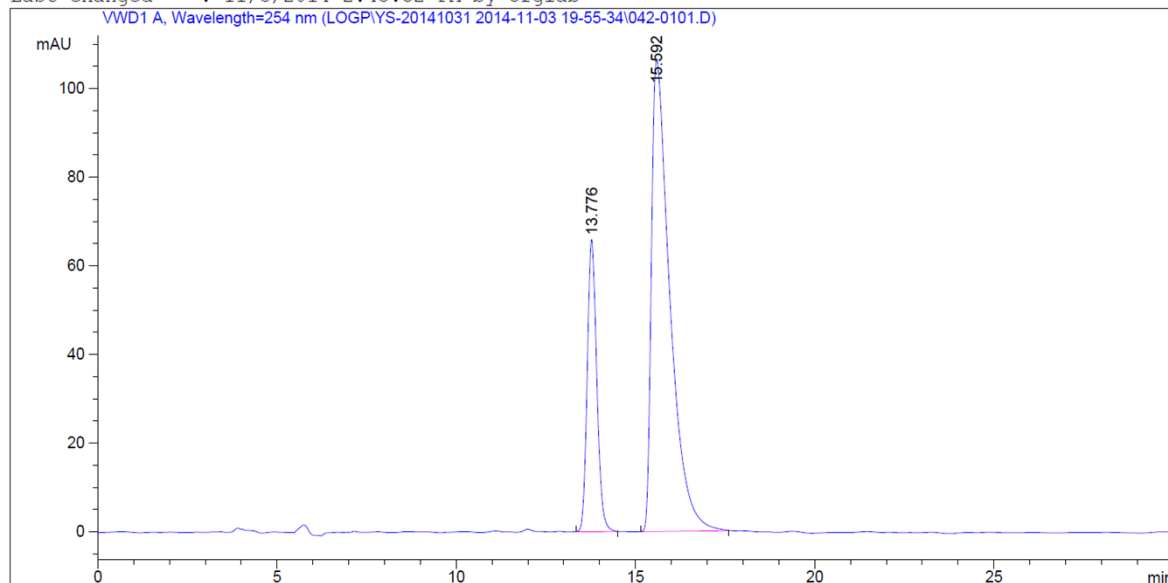
Totals : 3174.20239 131.05357

*** End of Report ***

Chiral HPLC data of **11** after asymmetric dihydroxylation

Data File C:\CHEM32\1\DATA\LOGP\YS-20141031 2014-11-03 19-55-34\042-0101.D
Sample Name: JYE-X-12

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Acq. Instrument : Instrument 1                Location  : Vial 42
Injection Date  : 11/3/2014 7:57:03 PM        Inj       :    1
                                           Inj Volume: 5 µl
Acq. Method     : C:\Chem32\1\DATA\LOGP\YS-20141031 2014-11-03 19-55-34\YS-2014-7-22.M
Last changed    : 11/3/2014 7:55:32 PM by Orglab
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Last changed    : 11/3/2014 2:45:52 PM by Orglab
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Area Percent Report

```
=====
Sorted By      :      Signal
Multiplier     :      1.0000
Dilution       :      1.0000
Use Multiplier & Dilution Factor with ISTDs
=====
```

Signal 1: VWD1 A, Wavelength=254 nm

Peak #	RetTime [min]	Type	Width [min]	Area mAU*s	Height [mAU]	Area %
1	13.776	BB	0.2849	1214.51233	65.90023	24.2080
2	15.592	BB	0.5286	3802.48096	106.52449	75.7920

Totals : 5016.99329 172.42472

*** End of Report ***