

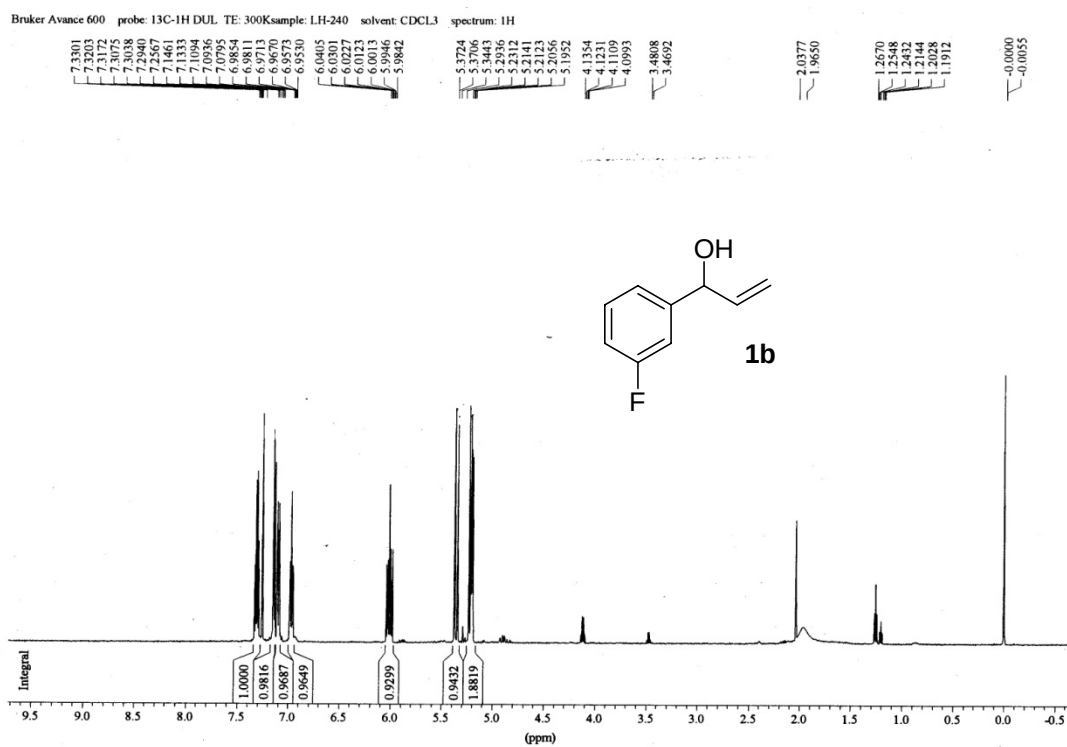
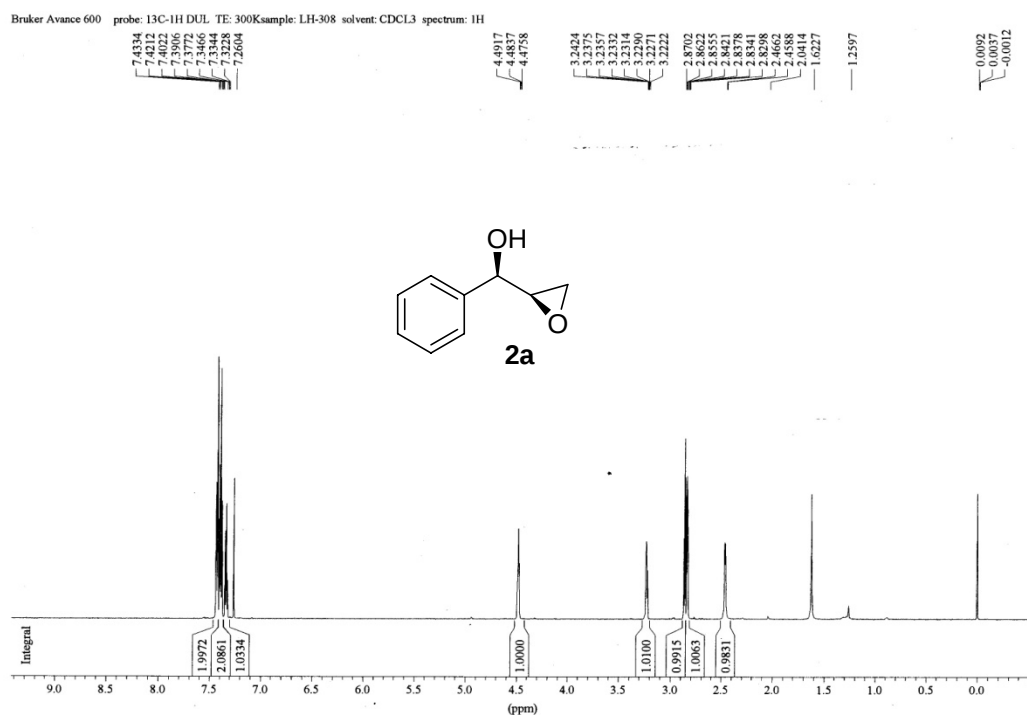
Selected ¹H NMR, ¹³C NMR and HPLC

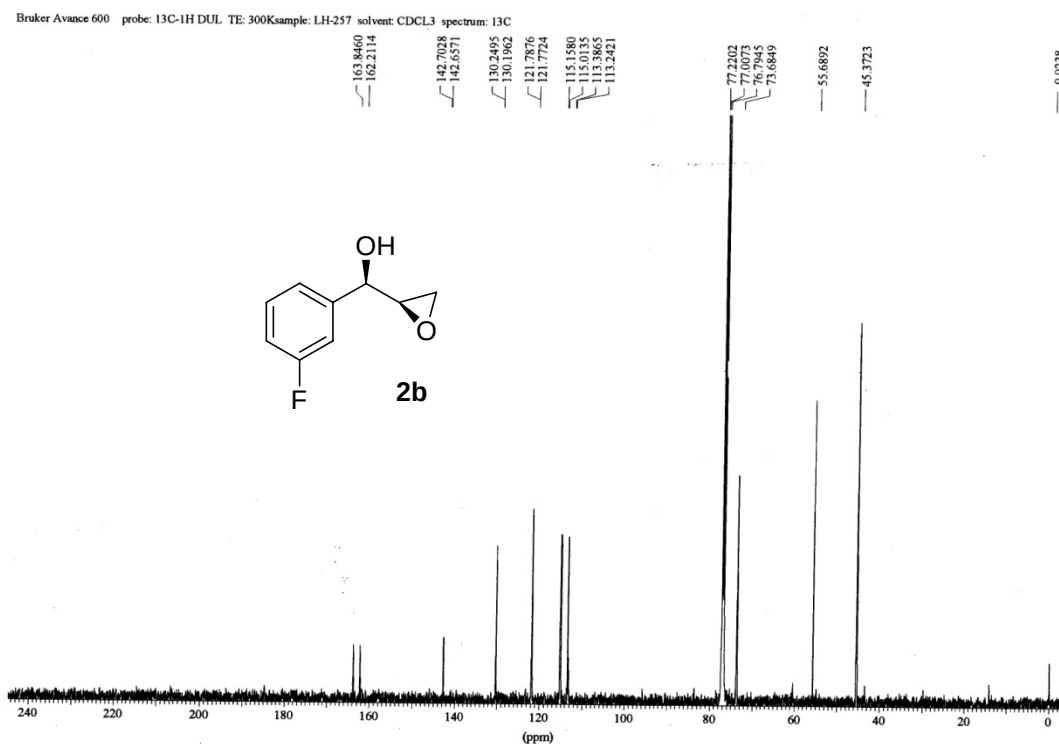
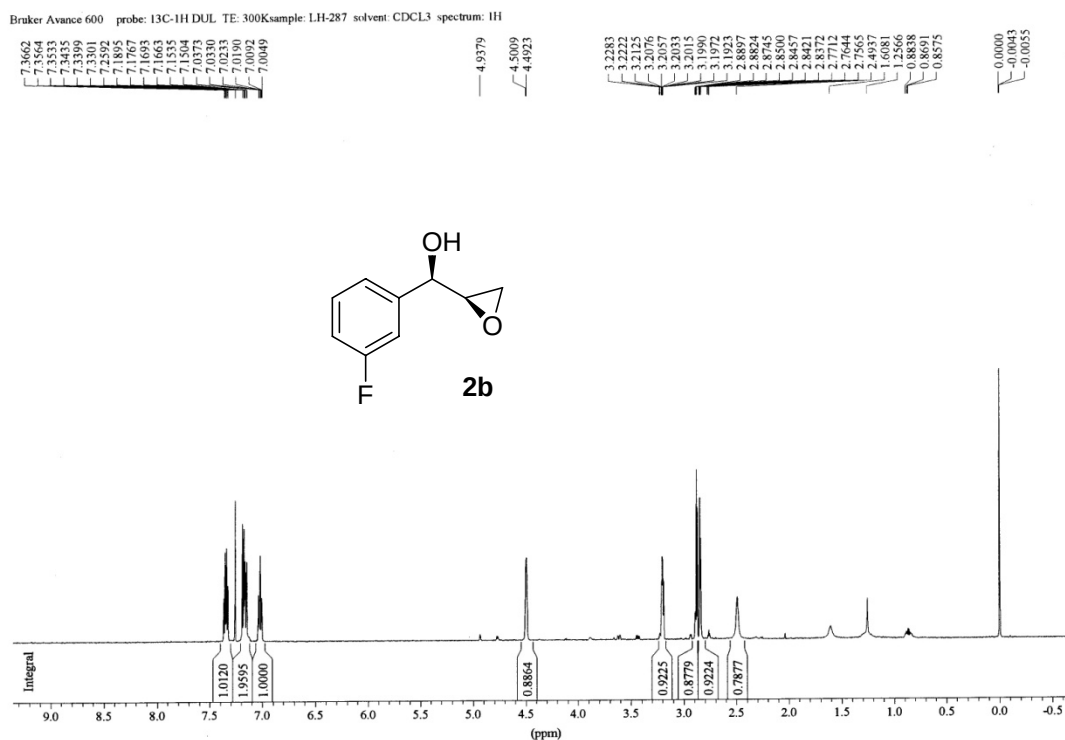
Highly Diastereo- and Enantioselective Epoxidation of Secondary Allylic Alcohols Catalyzed by Styrene Monooxygenase

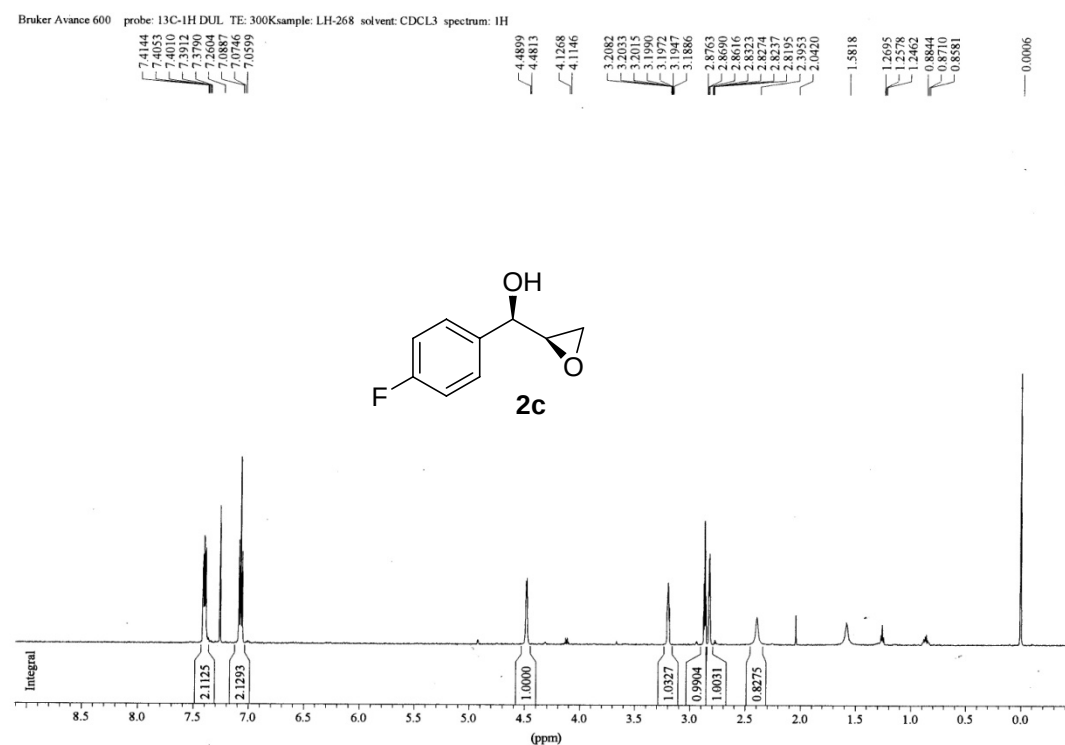
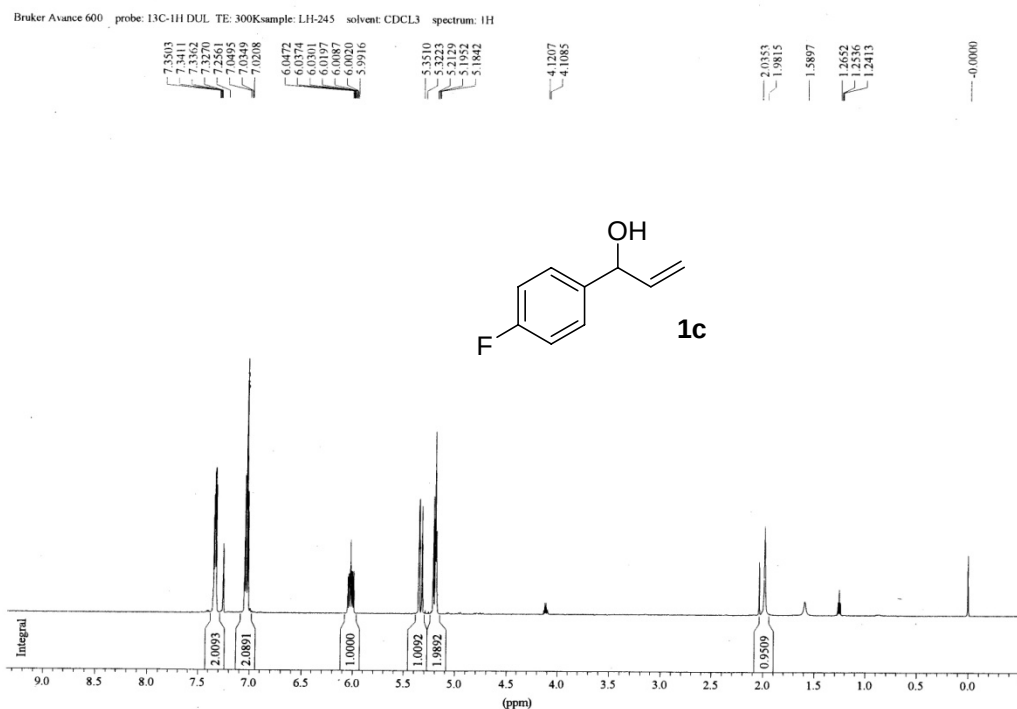
*Hui Lin, Yan Liu, and Zhong-Liu Wu**

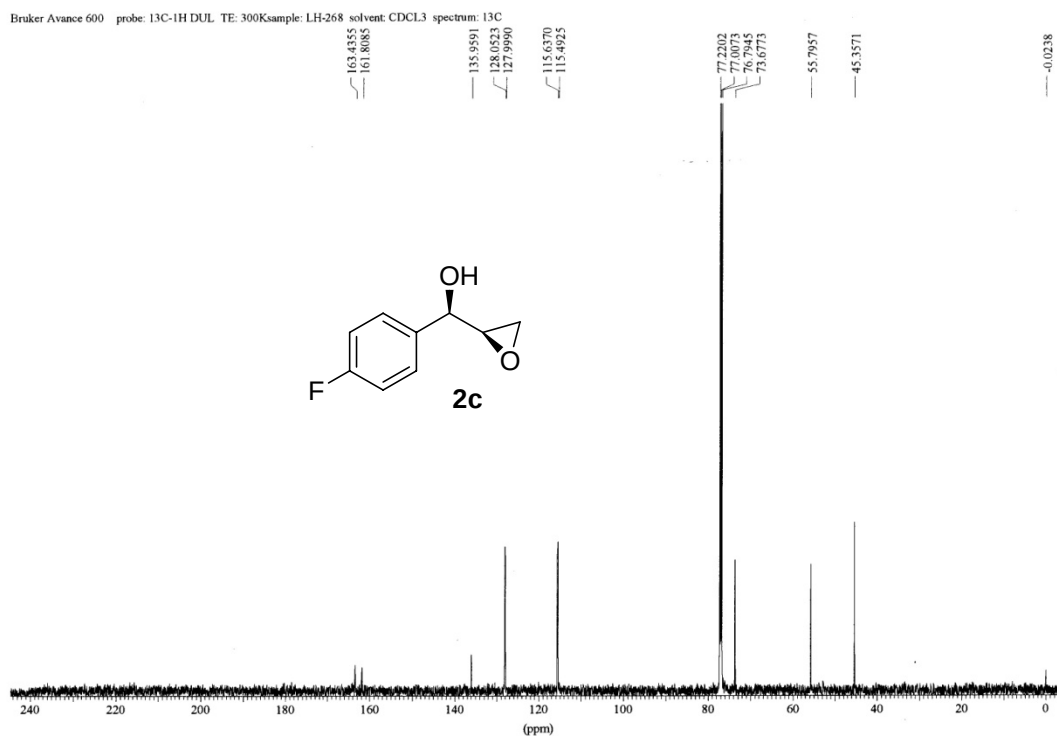
Selected ¹ H NMR and ¹³ C NMR.....	S2
Chiral HPLC analysis of 2a ee value	S24

Selected ^1H NMR and ^{13}C NMR

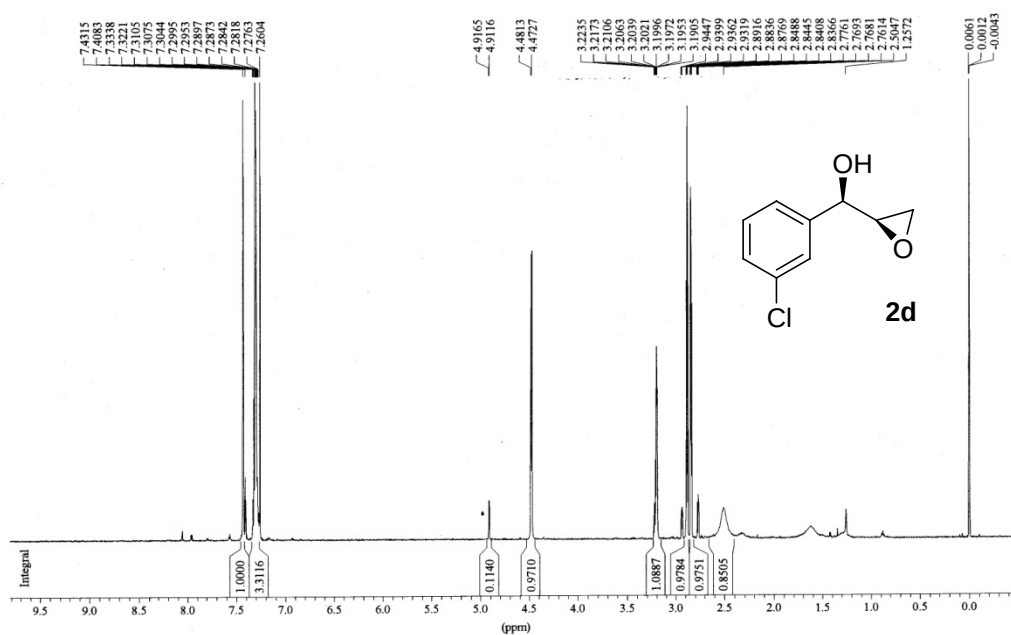




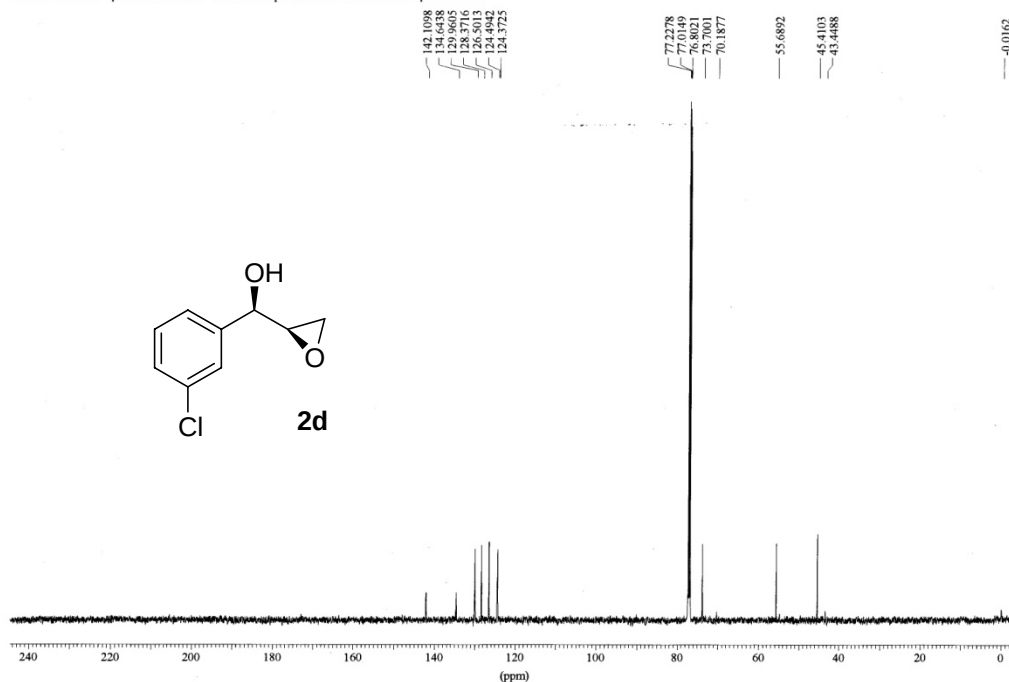


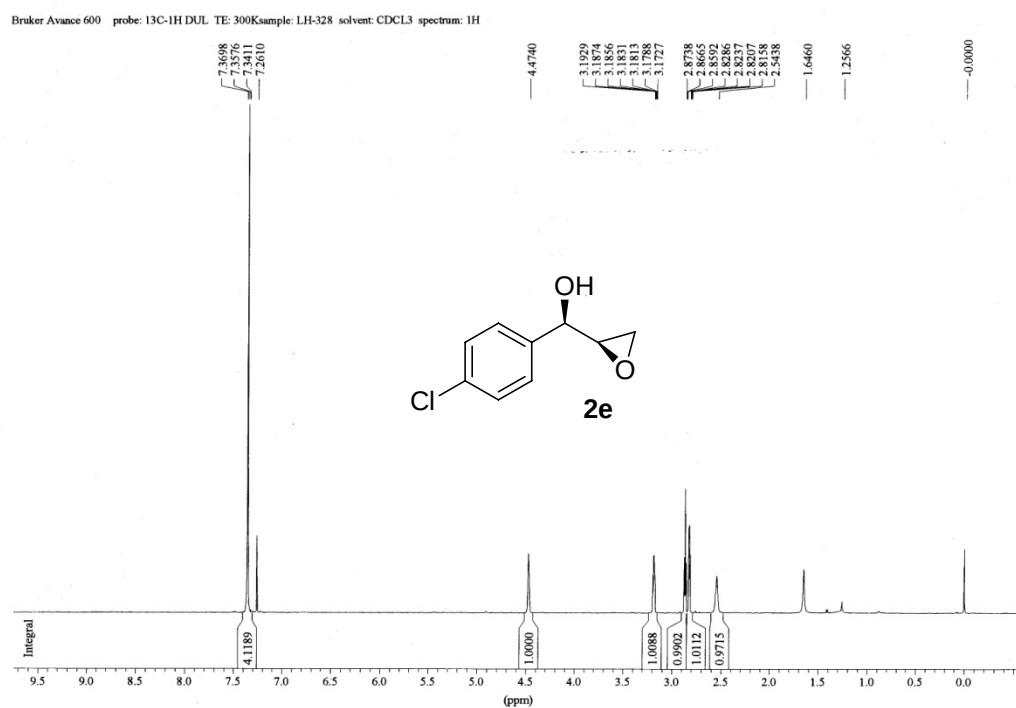
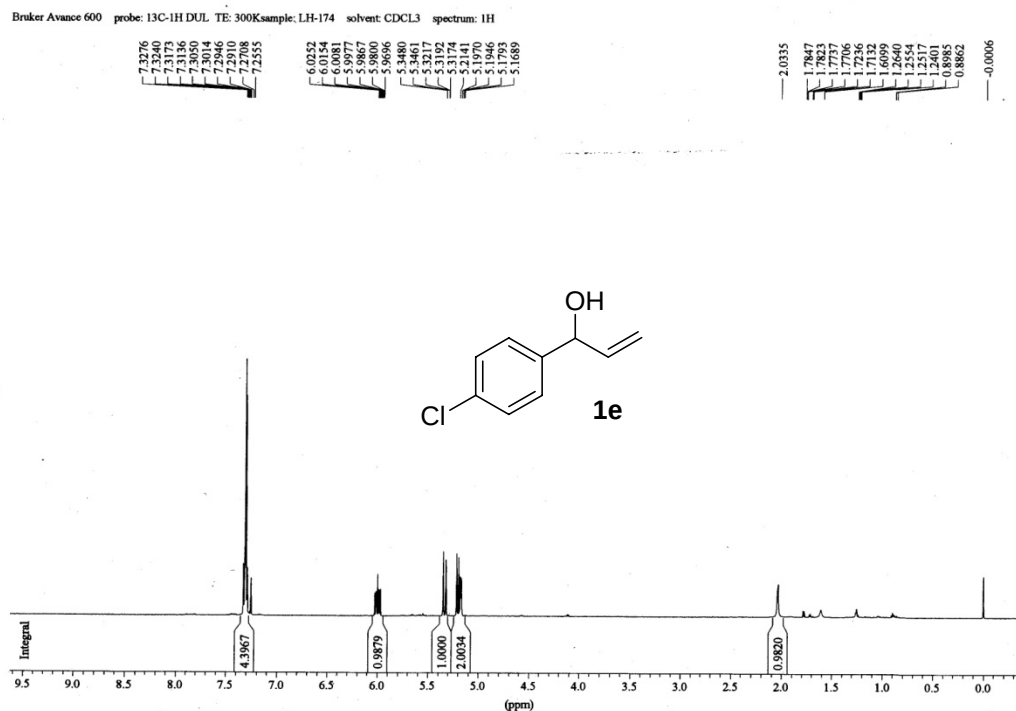


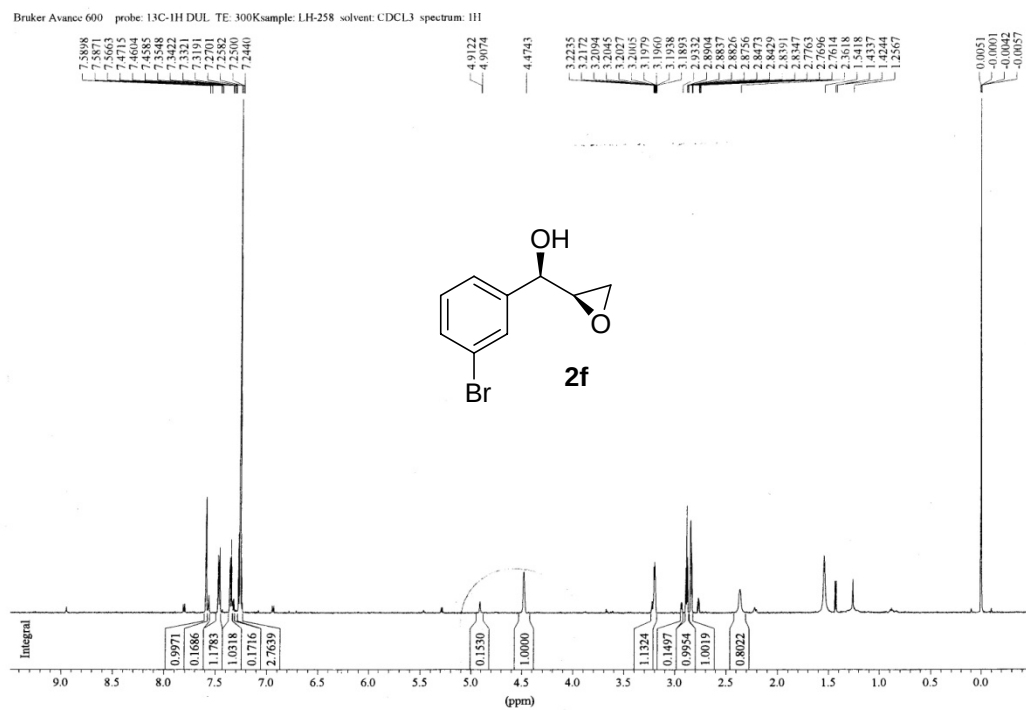
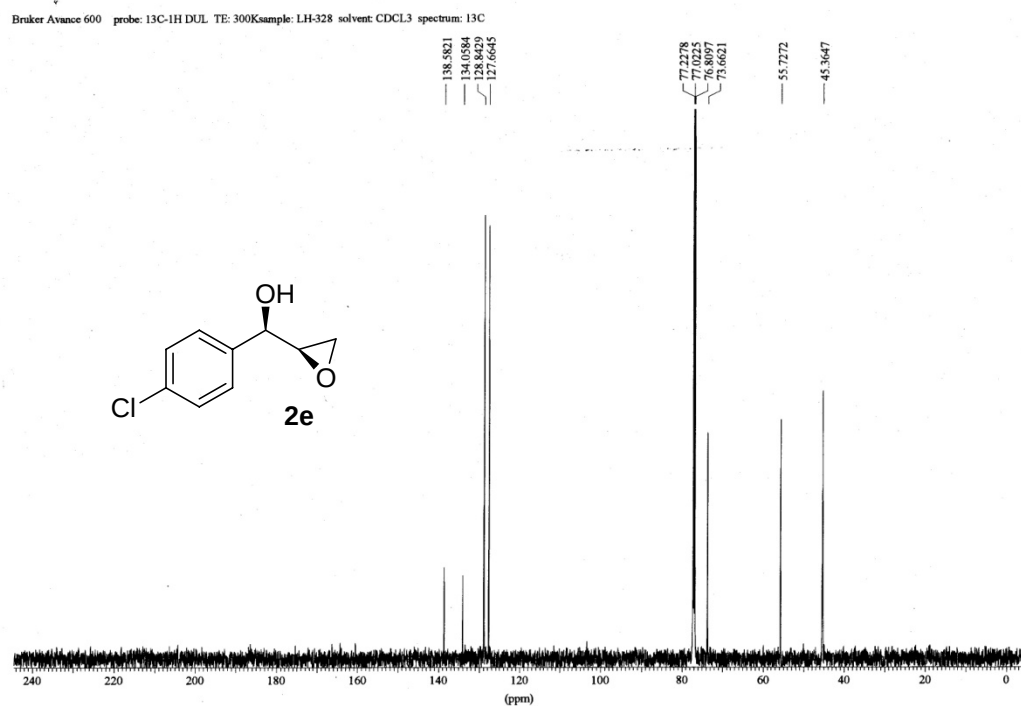
Brüker Avance 600 probe: 13C-1H DUL TE: 300Ksample: LH-324 solvent: CDCl₃ spectrum: 1H

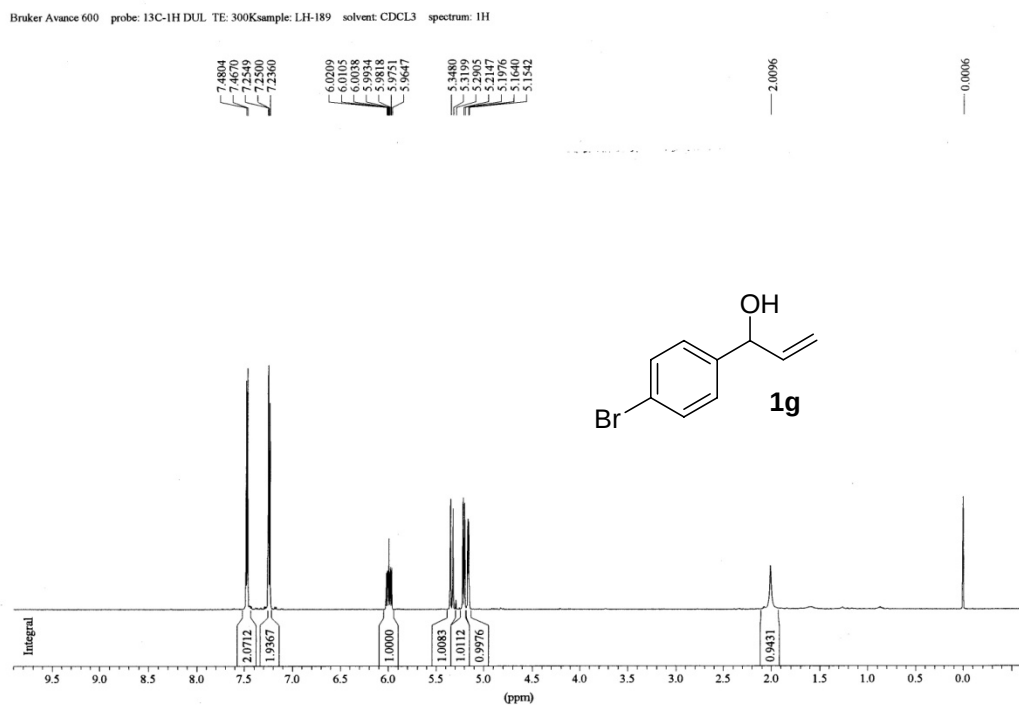
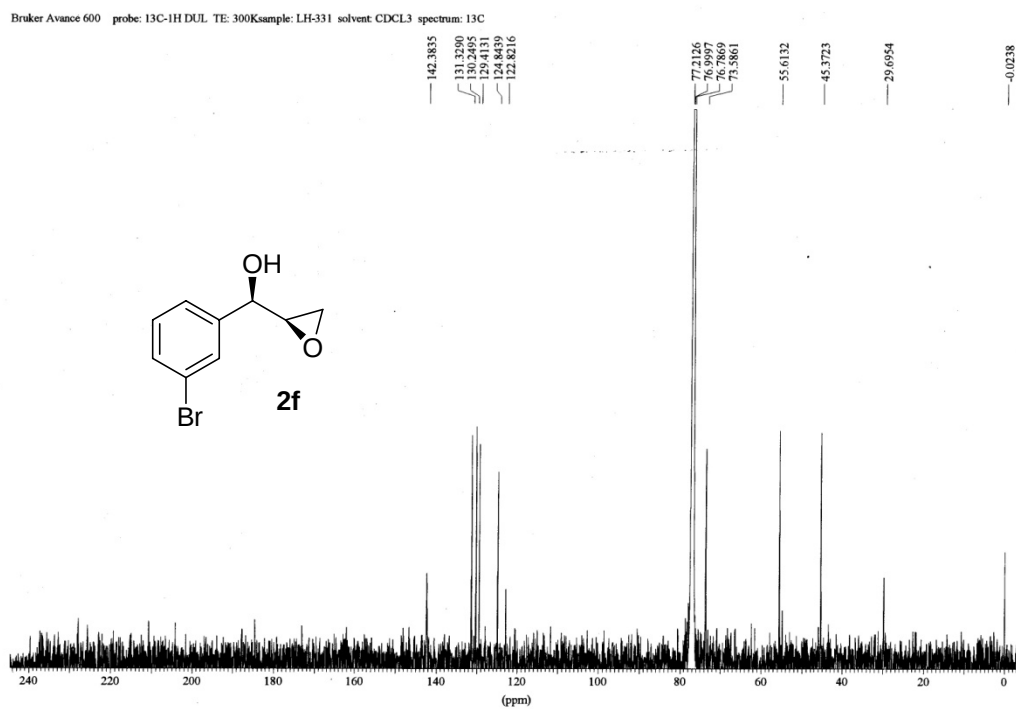


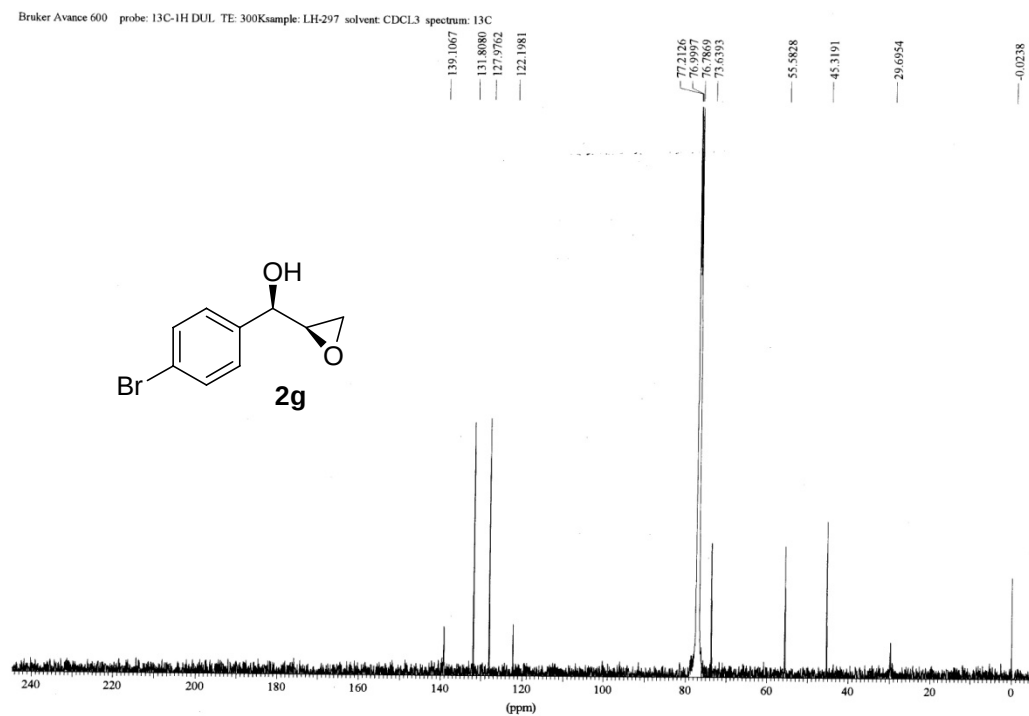
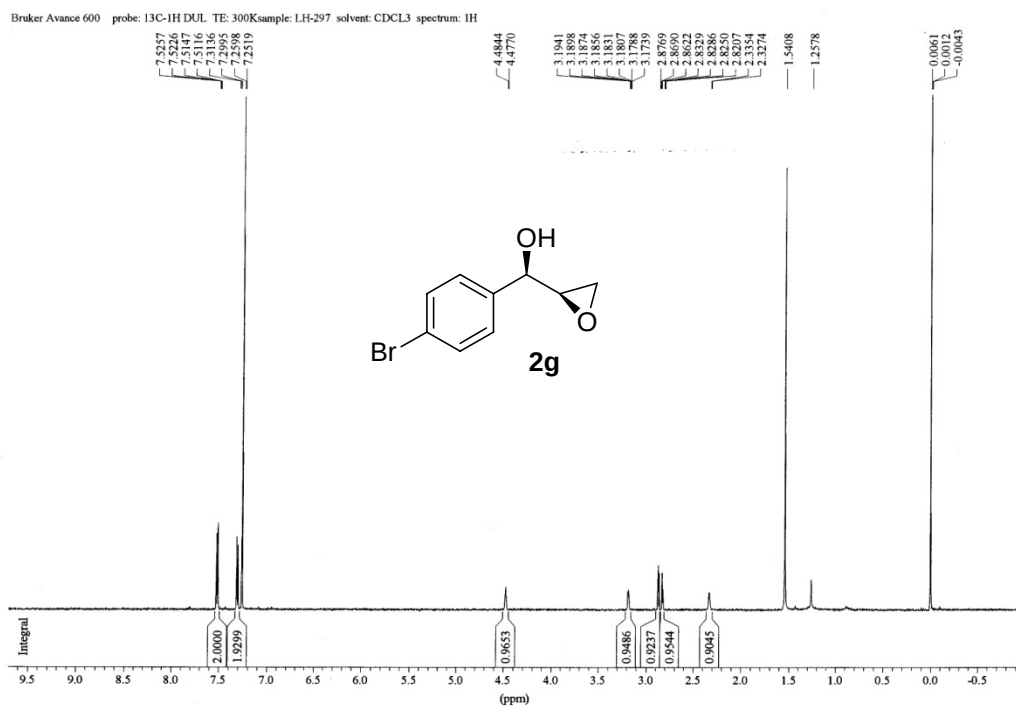
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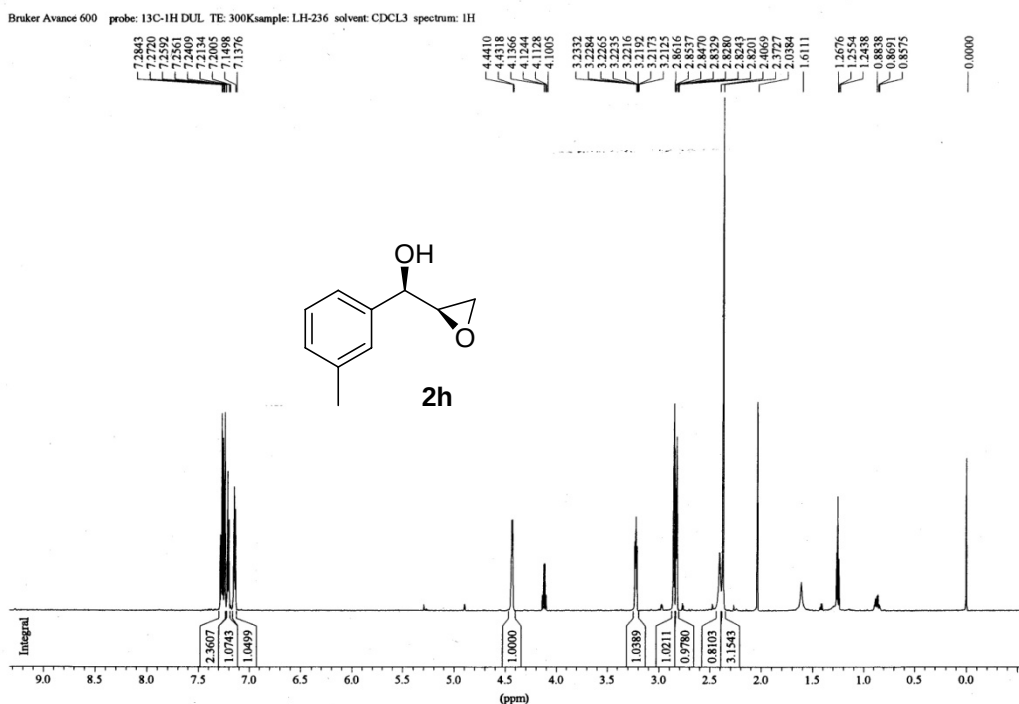
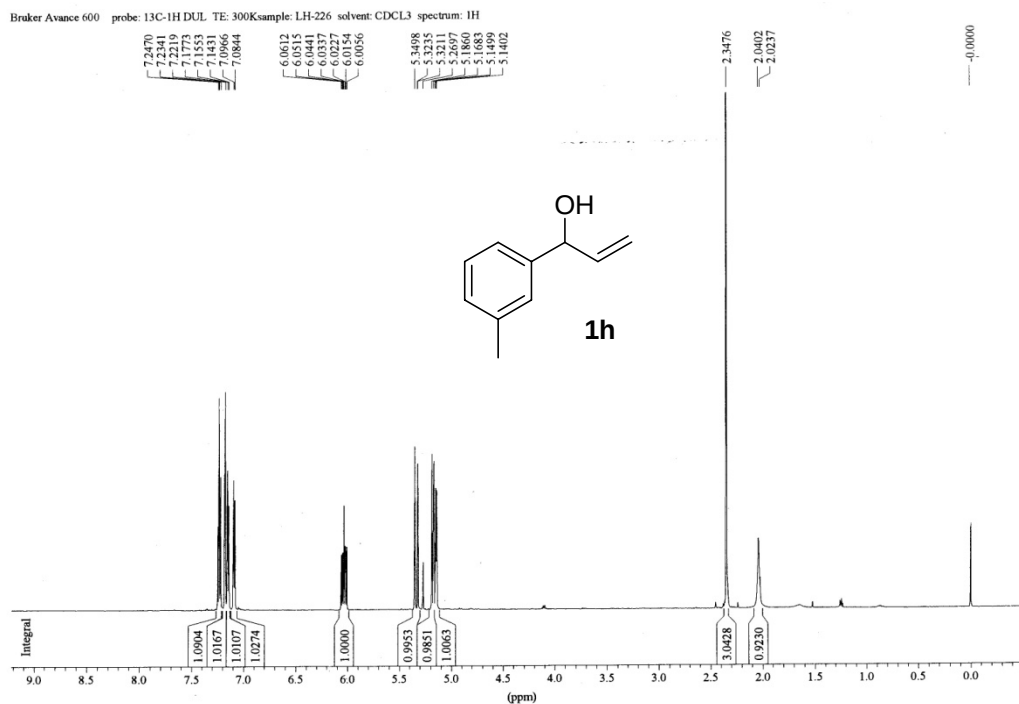




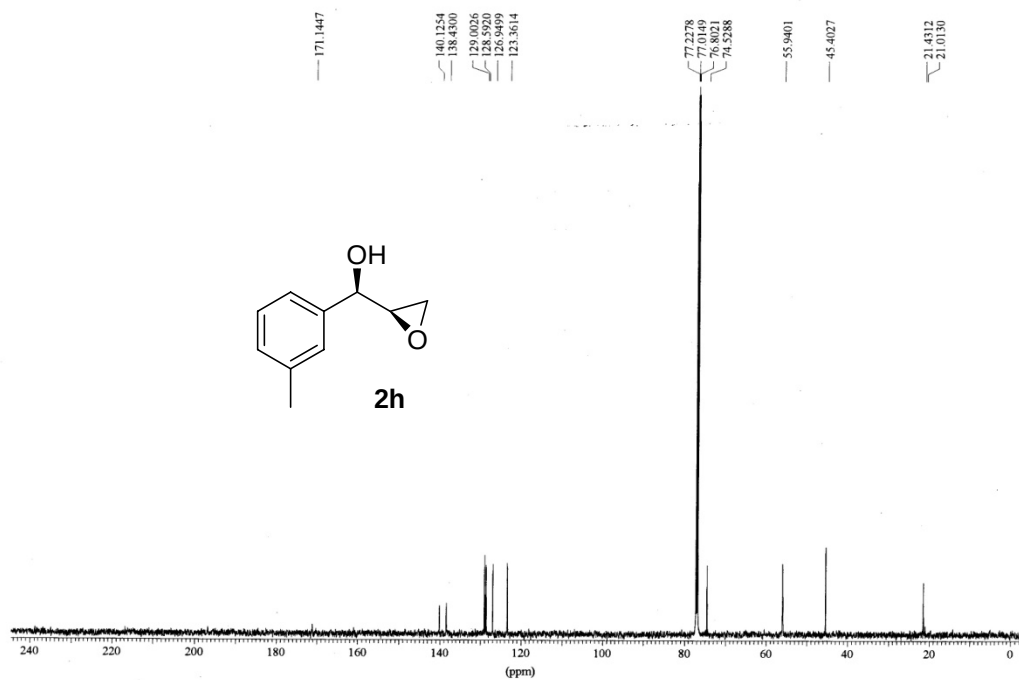




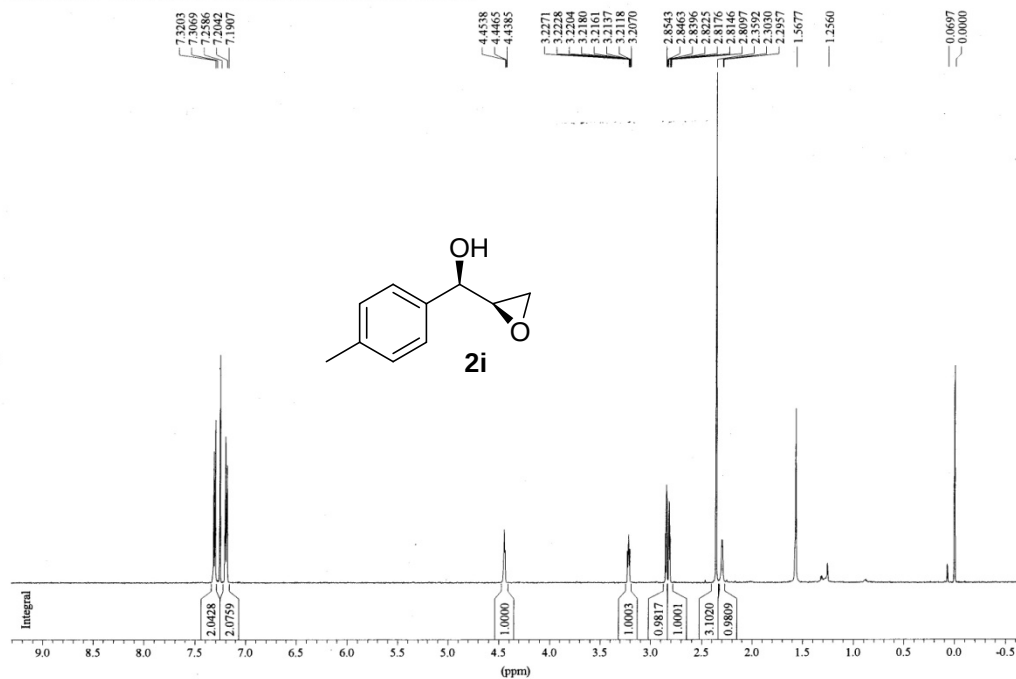




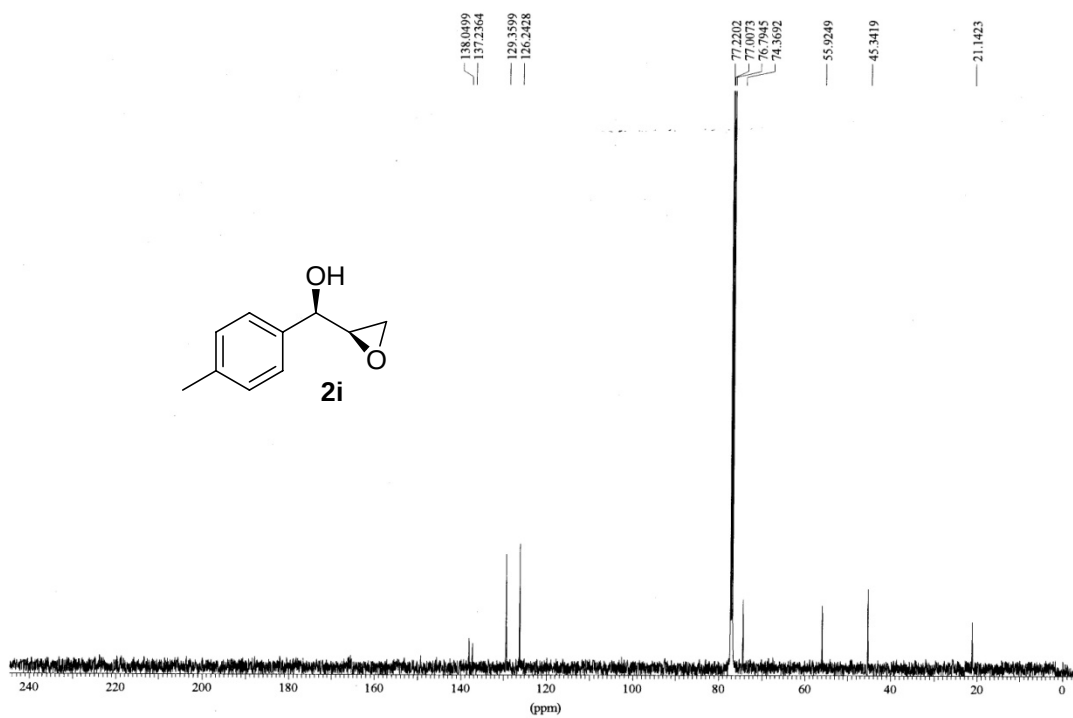
Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-236 solvent: CDCL3 spectrum: 13C



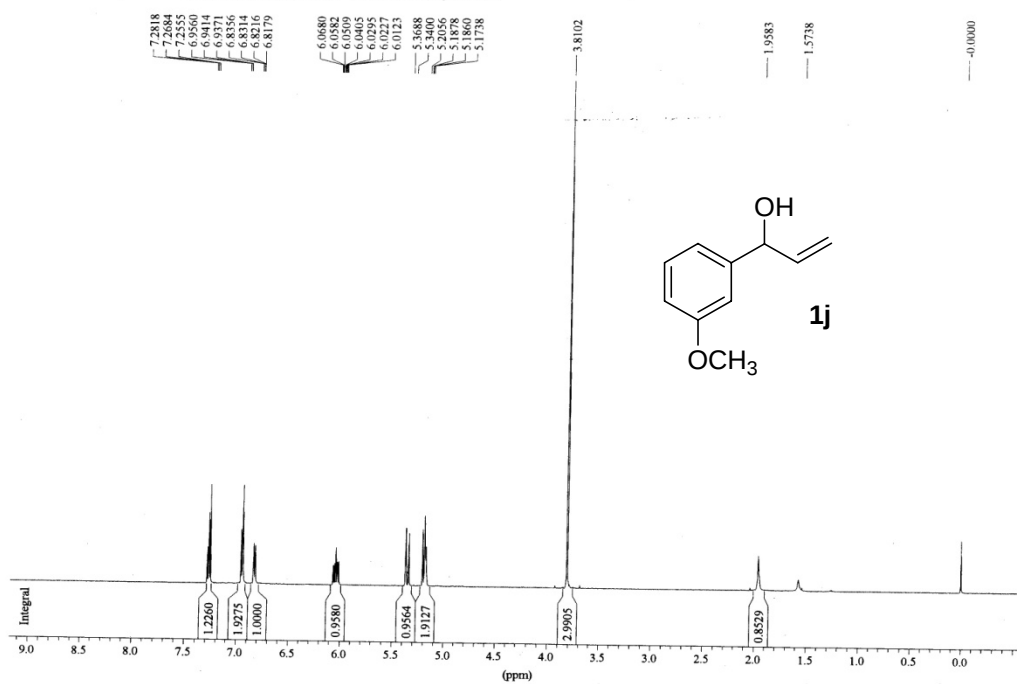
Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-329 solvent: CDCL3 spectrum: 1H

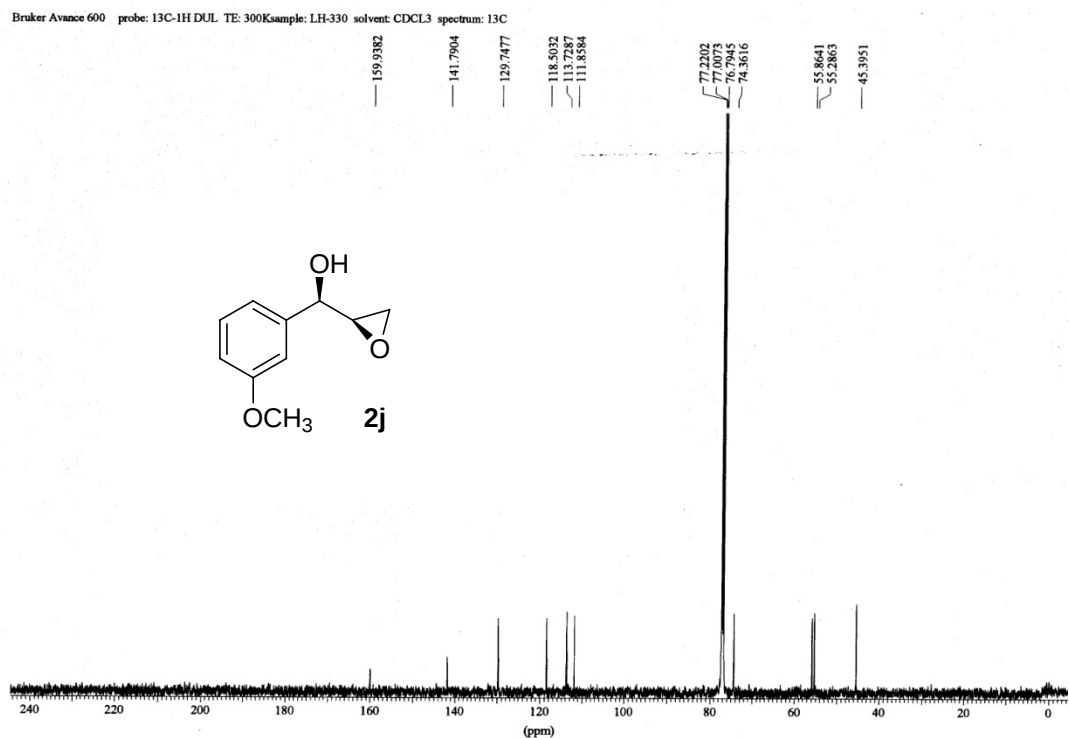
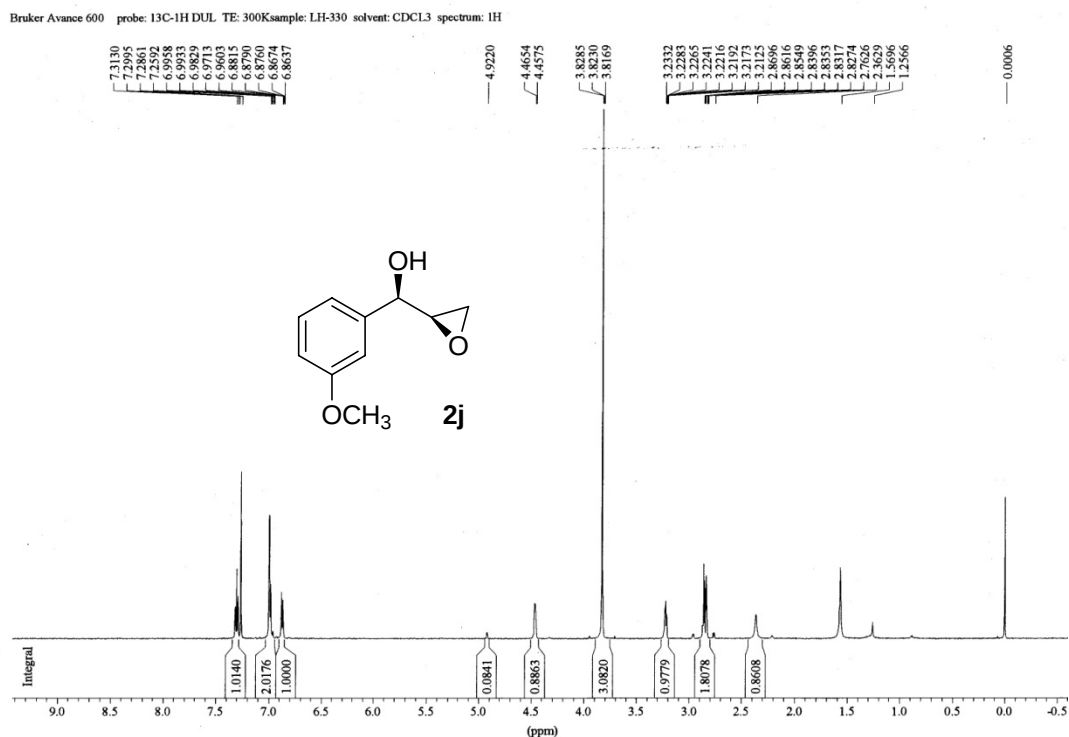


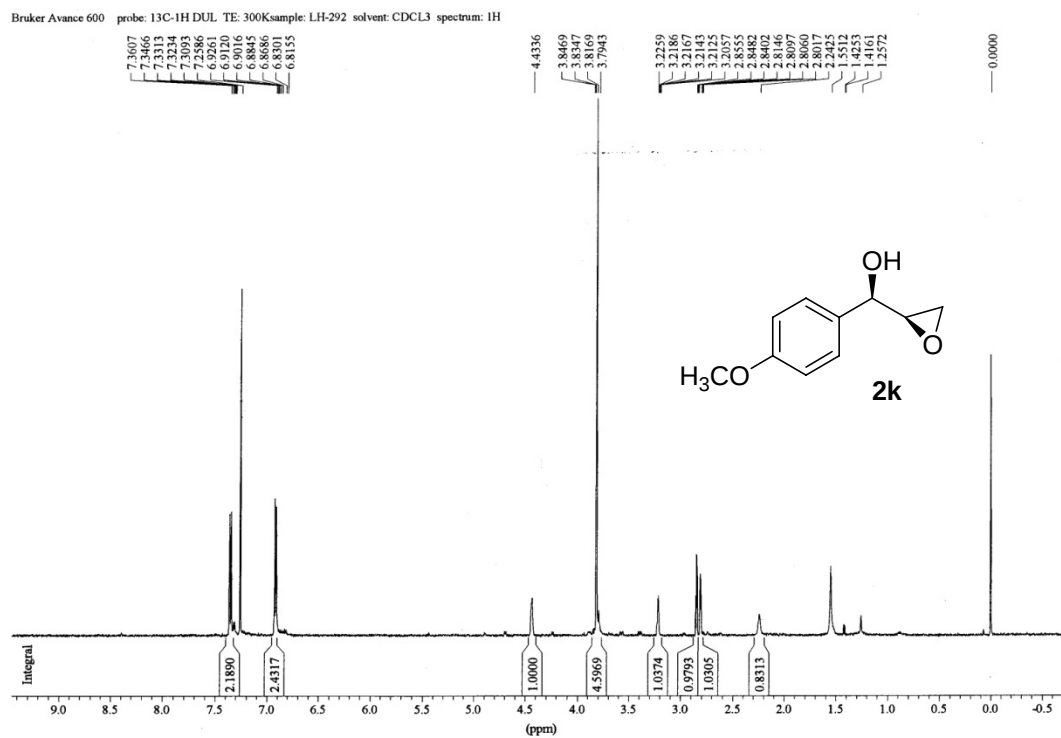
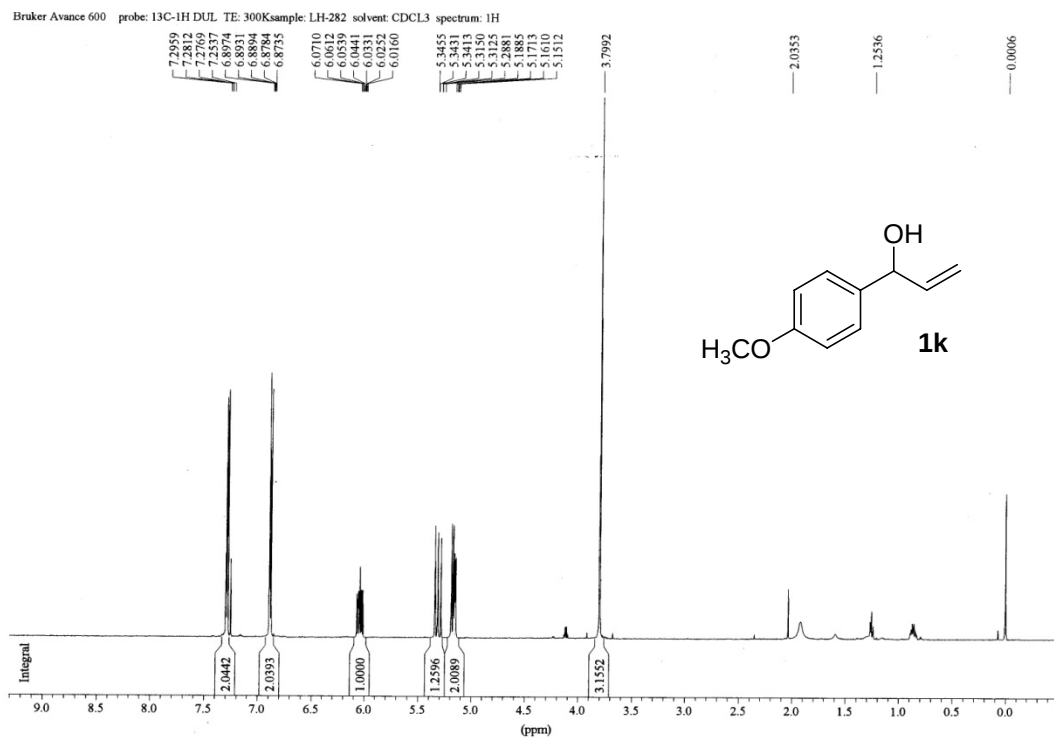
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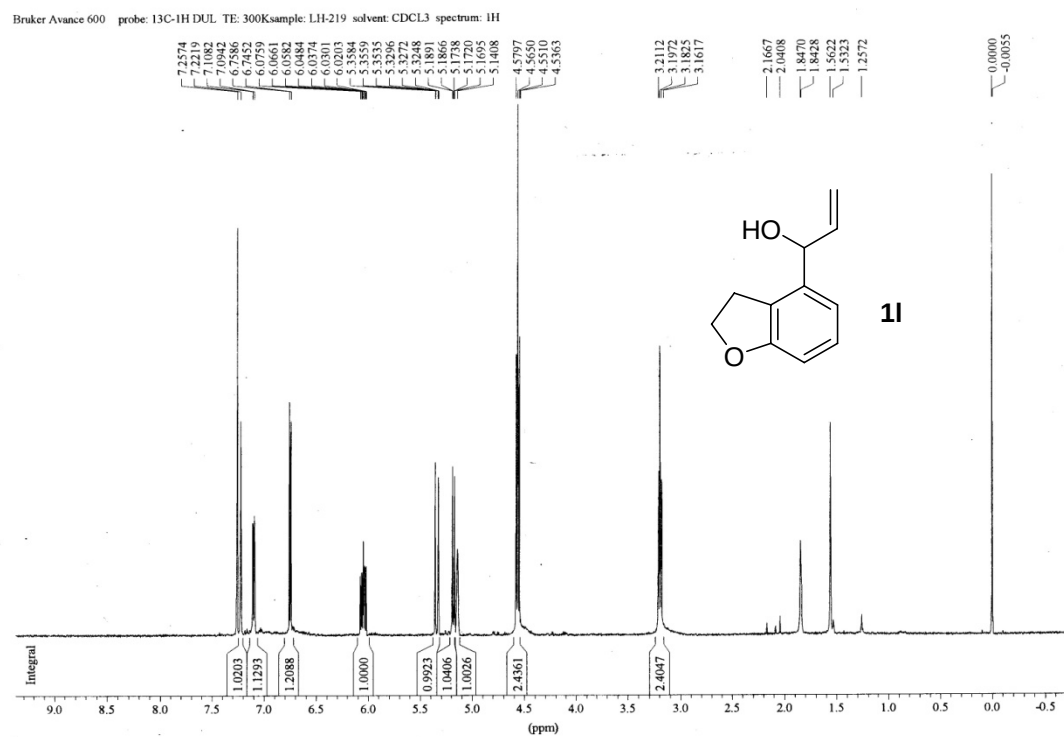
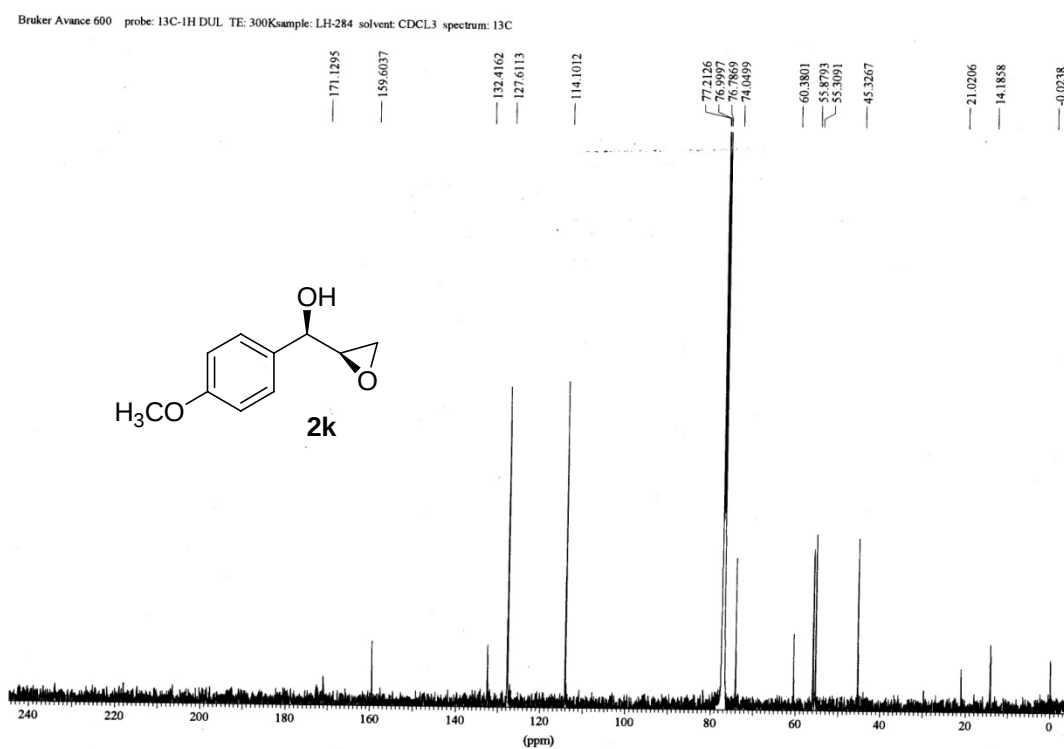


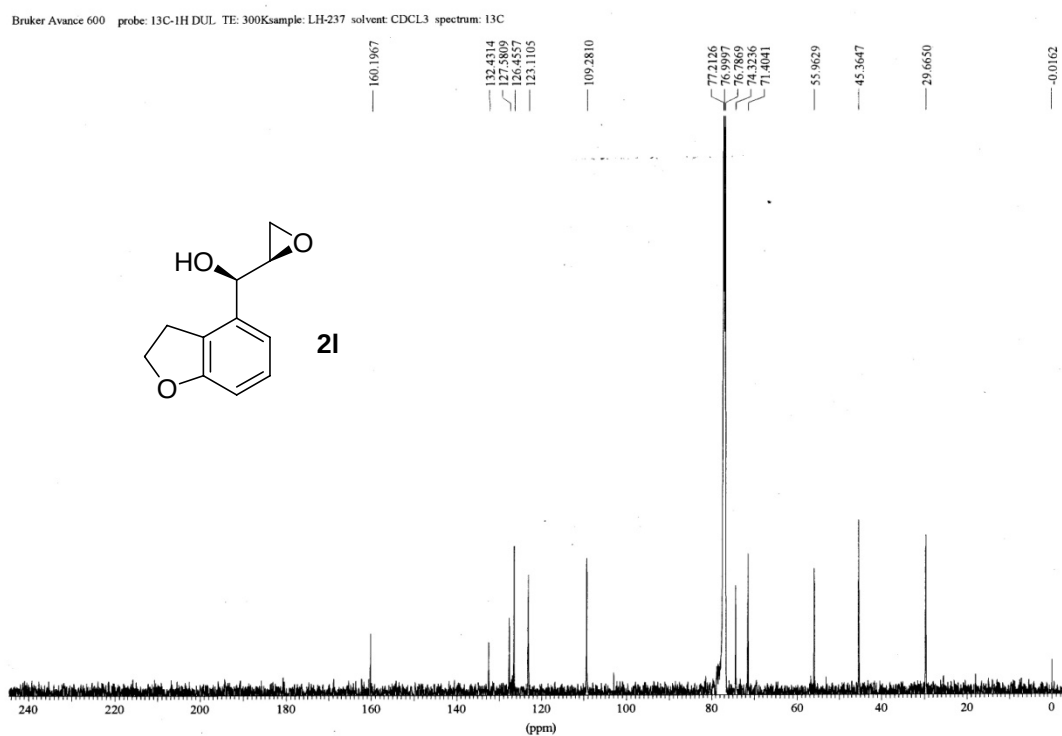
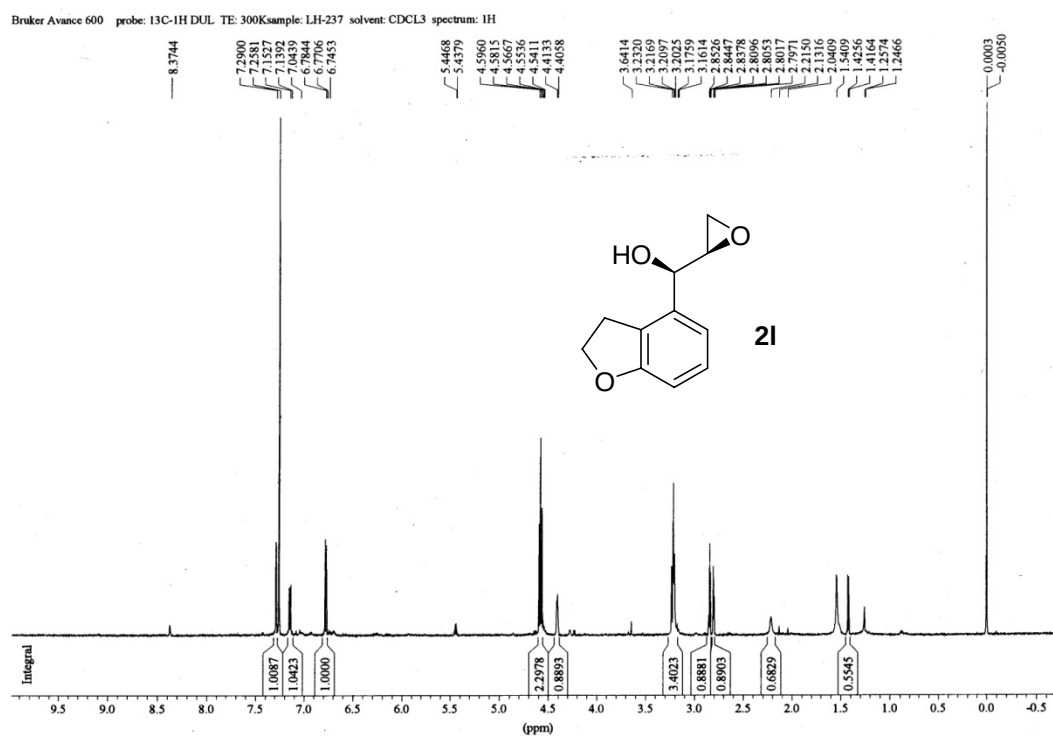
Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-244 solvent: CDCL3 spectrum: 1H



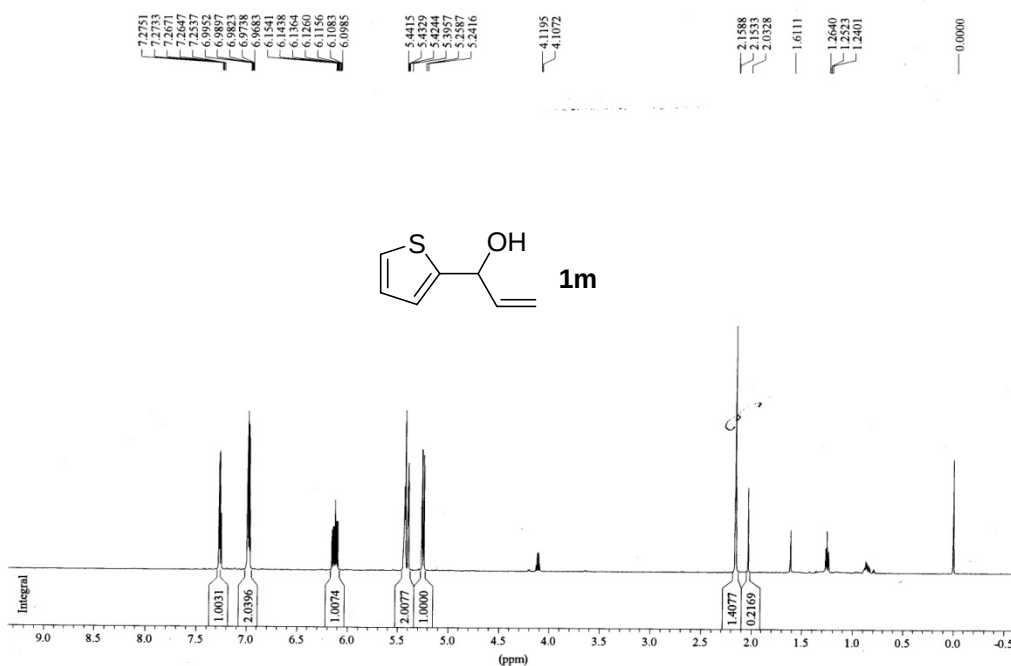




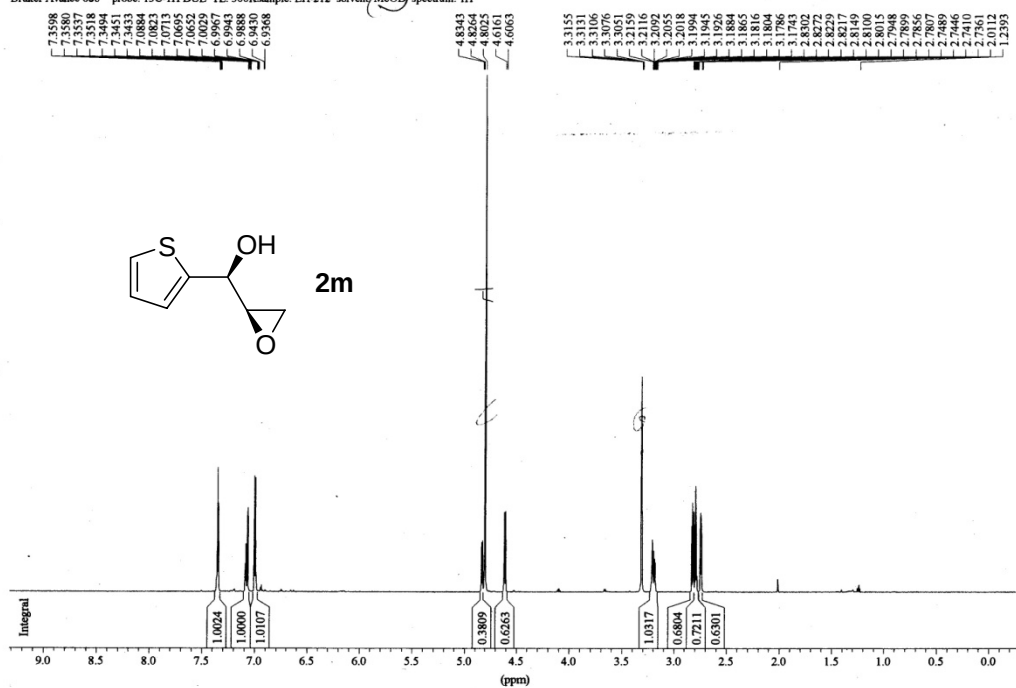


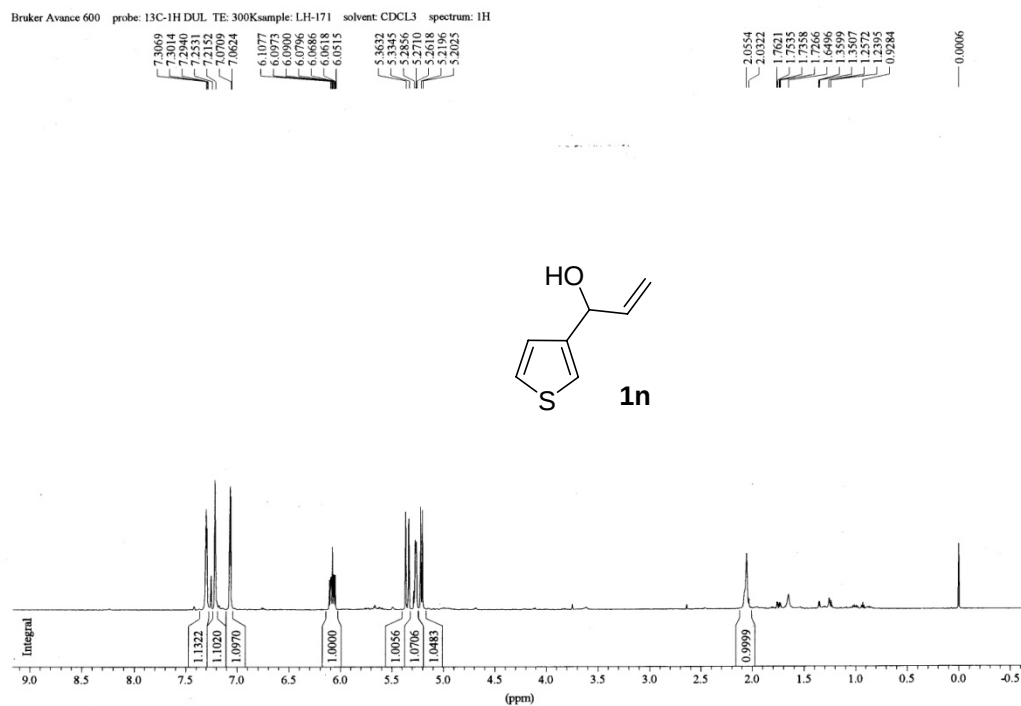
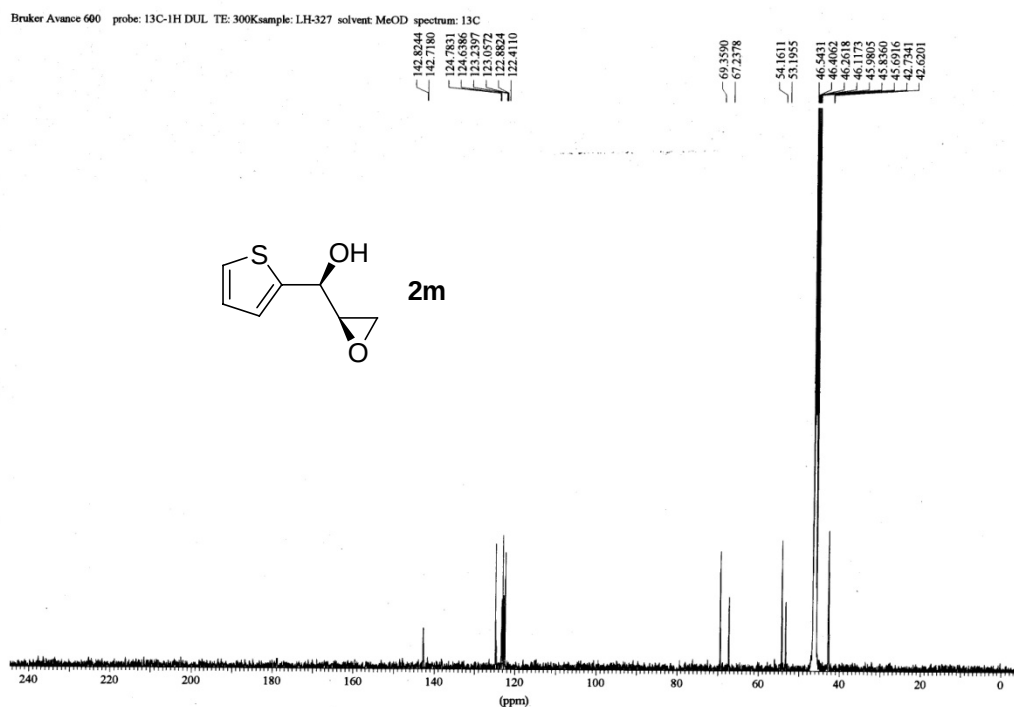


Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-185 solvent: CDCl3 spectrum: 1H

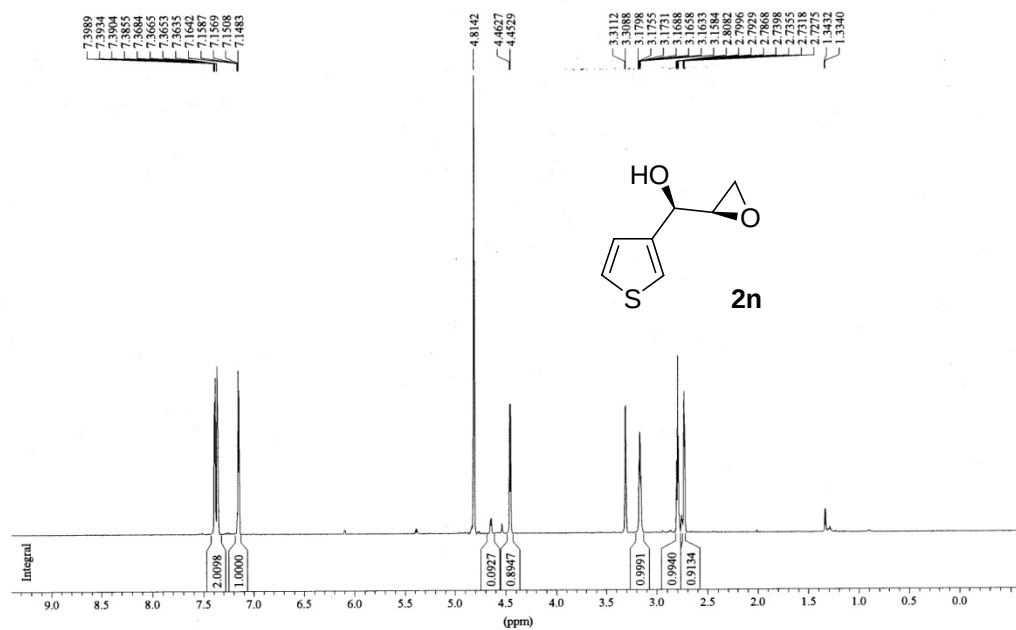


Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-212 solvent: MeOD spectrum: 1H

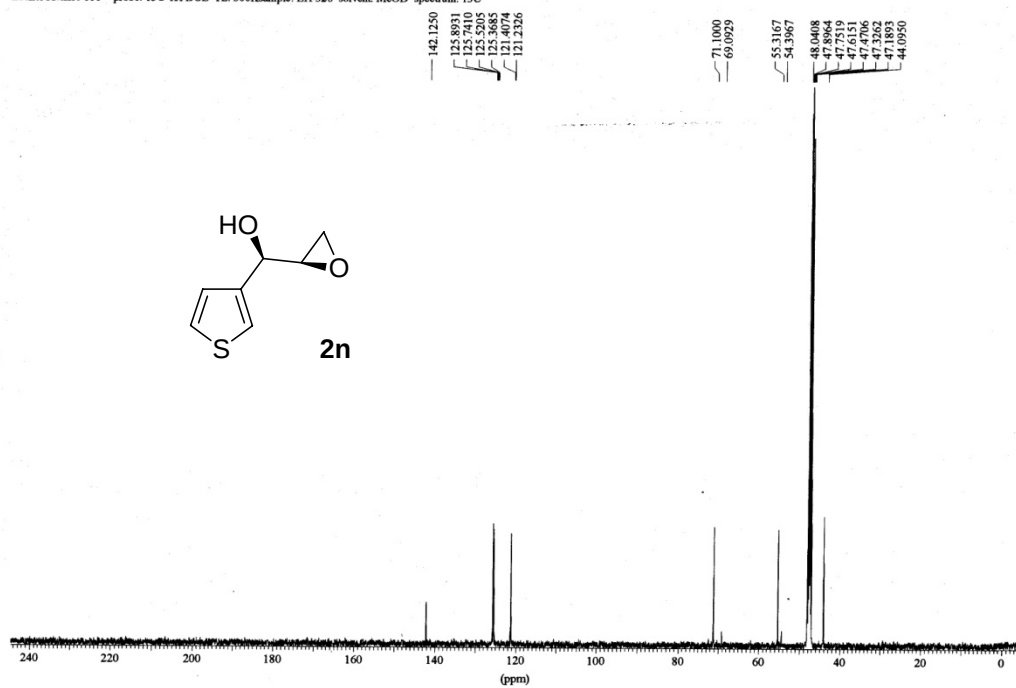


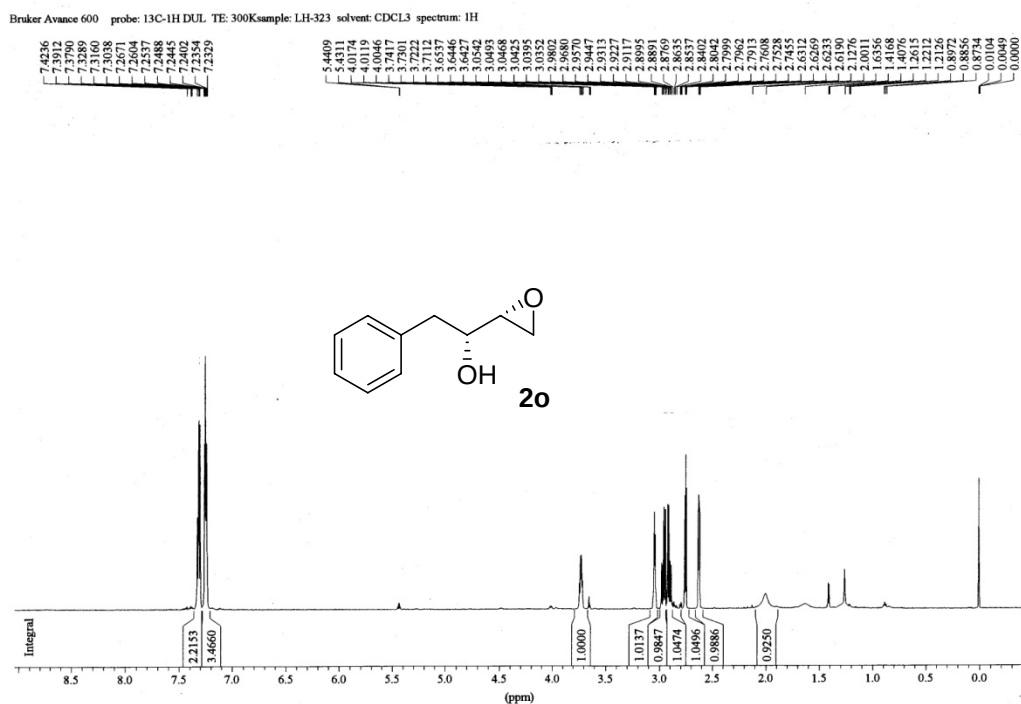
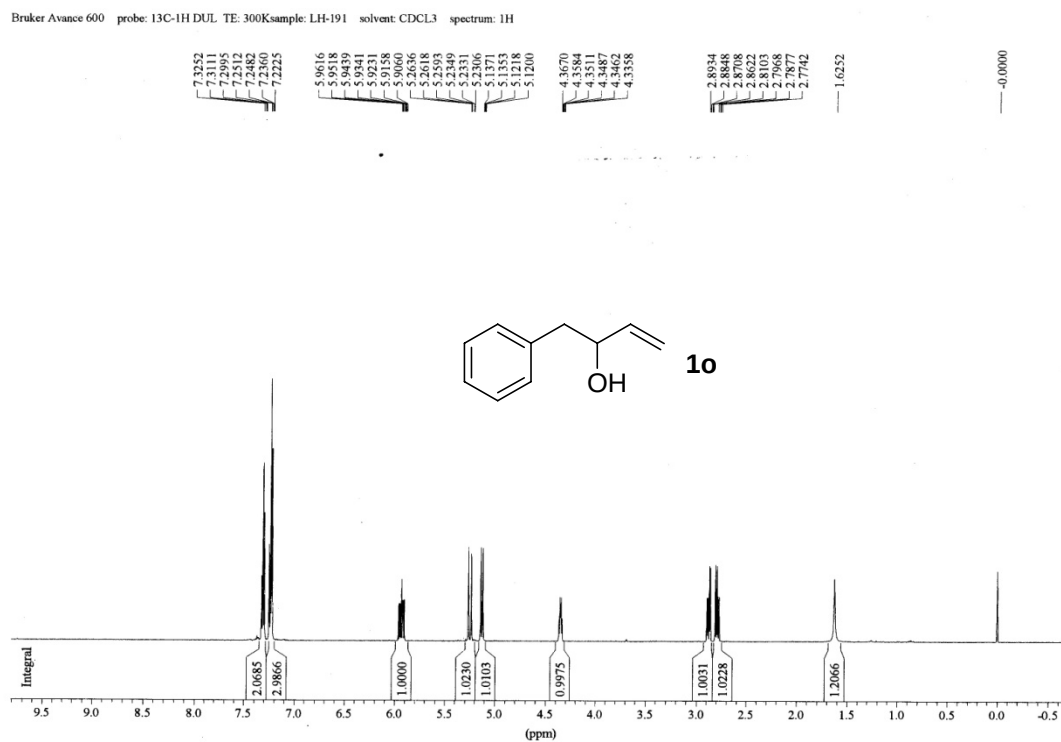


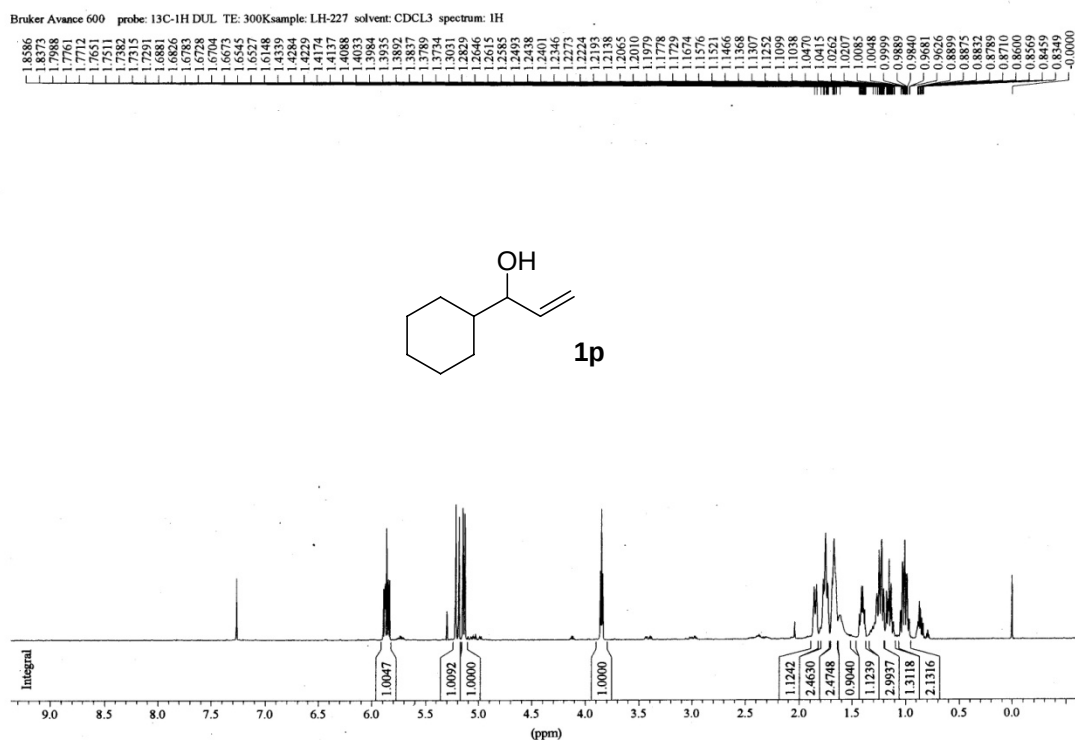
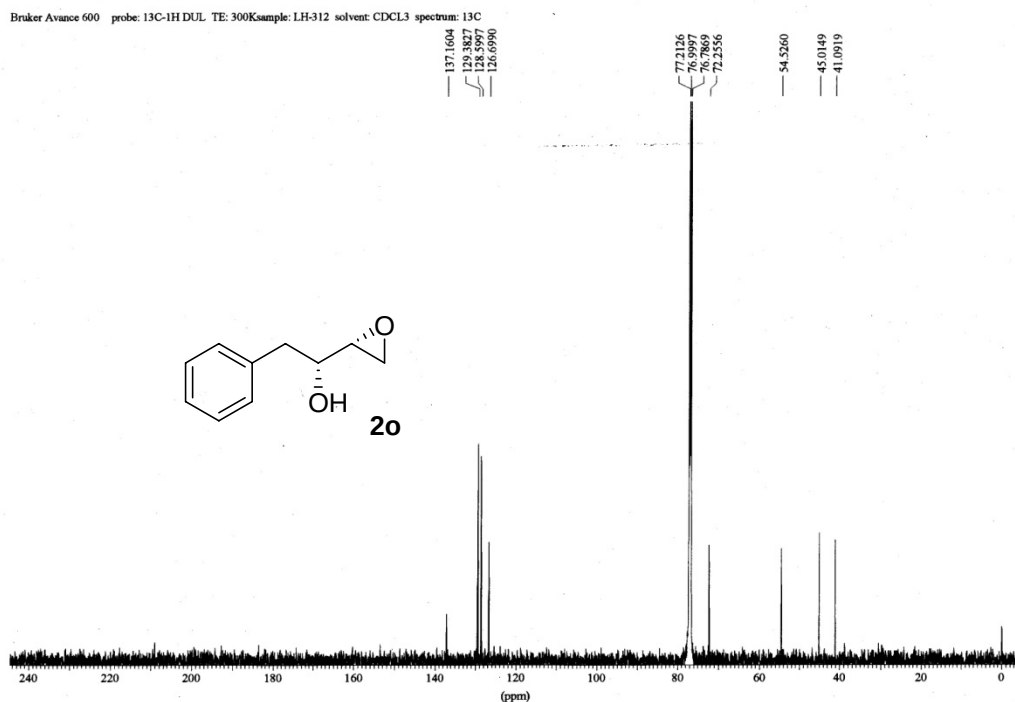
Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-326 solvent: MeOD spectrum: 1H

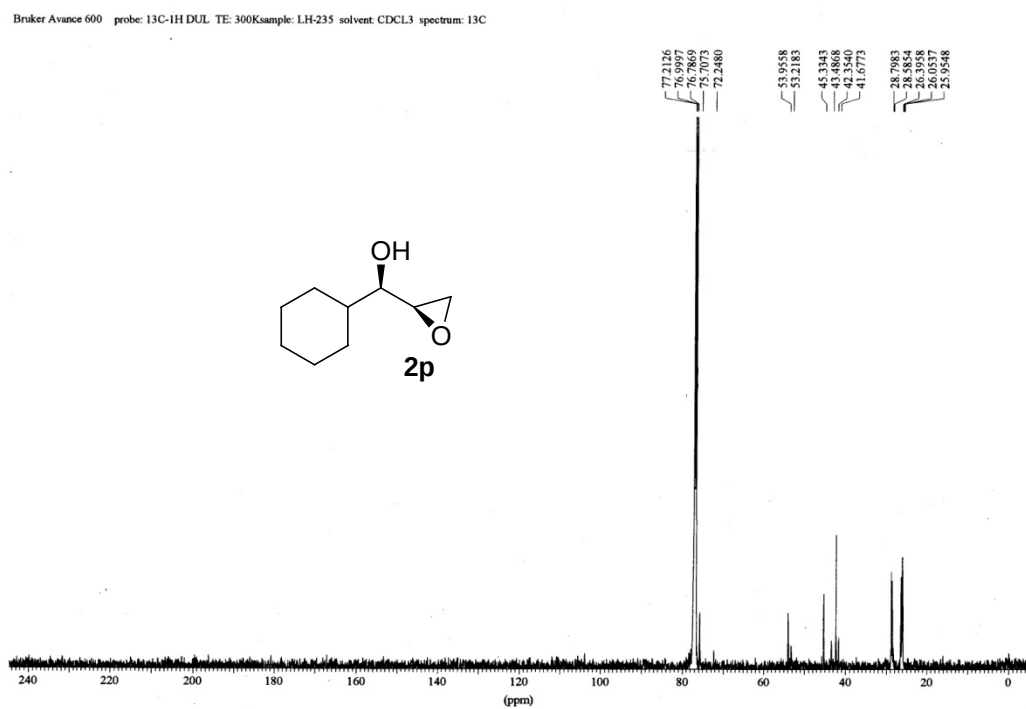
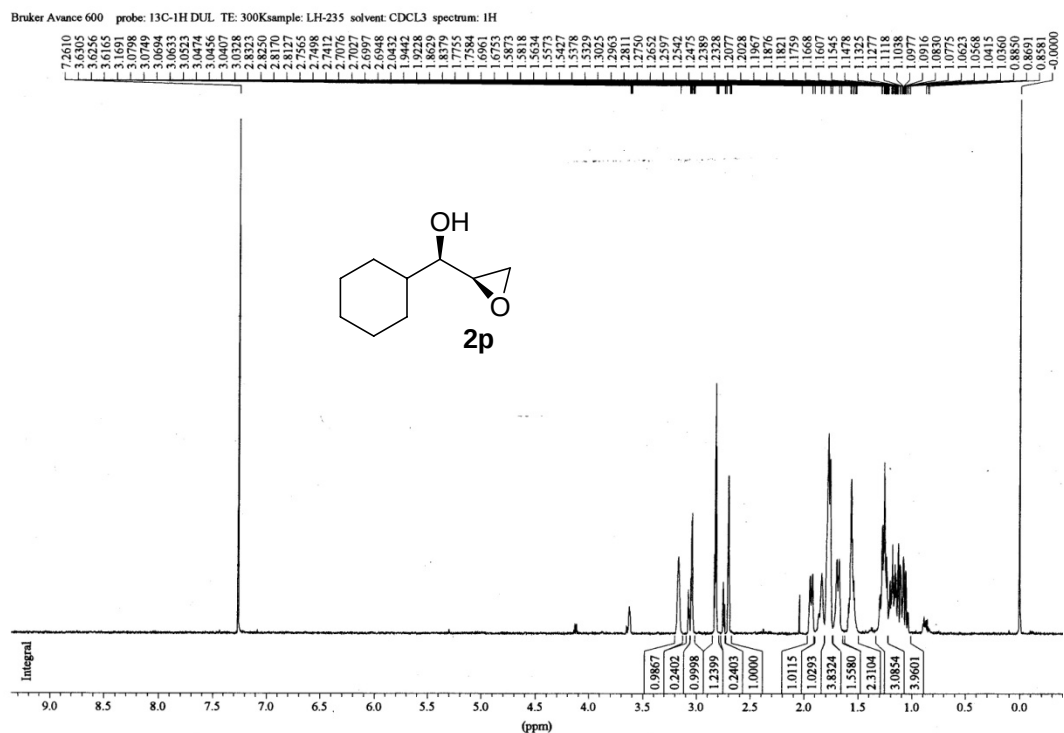


Bruker Avance 600 probe: 13C-1H DUL TE: 300K sample: LH-326 solvent: MeOD spectrum: 13C

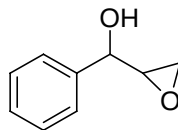








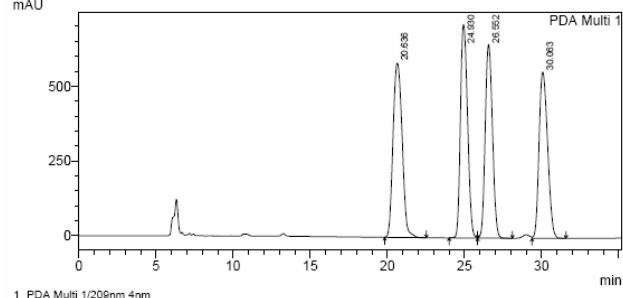
Chiral HPLC analysis of 2a ee value



==== Wu Group's Shimadzu LCsolution Analysis Report ====

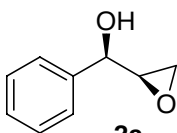
D:\...epoxidation\手性分析\epoxidation of unconjugated olefins\oxiran-2-yl(phenyl)methanol-2.lcd
Acquired by : Admin
Sample Name : oxiran-2-yl(phenyl)methanol
Injection Volume : 5 uL
Data File Name : oxiran-2-yl(phenyl)methanol-2.lcd
Method File Name : B-90.lcm
Report File Name : 报告格式.lcr
Data Acquired : 2009-12-5 14:24:52
Description : oxiran-2-yl(phenyl)methanol
AS-H (4.6*250), 0.5 ml/min; 90% n-Hexane; oven 35; 1.9 MPa

<Chromatogram>
mAU



PeakTable

Peak#	Ret. Time	Area	Height	Area %
1	20.636	23923668	383302	26.797
2	24.930	22832664	713928	25.375
3	26.652	21114394	647092	23.650
4	30.063	21406620	555769	23.978
Total		89277346	2500092	100.000



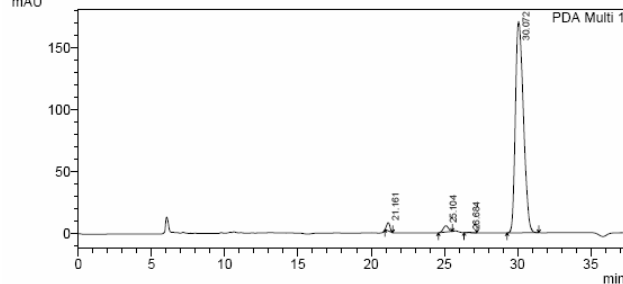
2a

from the wild type SMO

==== Wu Group's Shimadzu LCsolution Analysis Report ====

D:\...epoxidation\手性分析\epoxidation of unconjugated olefins\oxiran-2-yl(phenyl)methanol-6-p.lcd
Acquired by : Admin
Sample Name : oxiran-2-yl(phenyl)methanol-6-p
Injection Volume : 5 uL
Data File Name : oxiran-2-yl(phenyl)methanol-6-p.lcd
Method File Name : B-90.lcm
Report File Name : 报告格式.lcr
Data Acquired : 2009-12-5 15:21:37
Description : oxiran-2-yl(phenyl)methanol-6-p
AS-H (4.6*250), 0.5 ml/min; 90% n-Hexane; oven 35; 1.9 MPa

<Chromatogram>
mAU



PeakTable

Peak#	Ret. Time	Area	Height	Area %
1	21.161	102875	6557	1.526
2	25.104	123475	5096	1.832
3	26.684	7488	318	0.111
4	30.072	6507605	170503	96.531
Total		6741442	182475	100.000