

Supporting Information

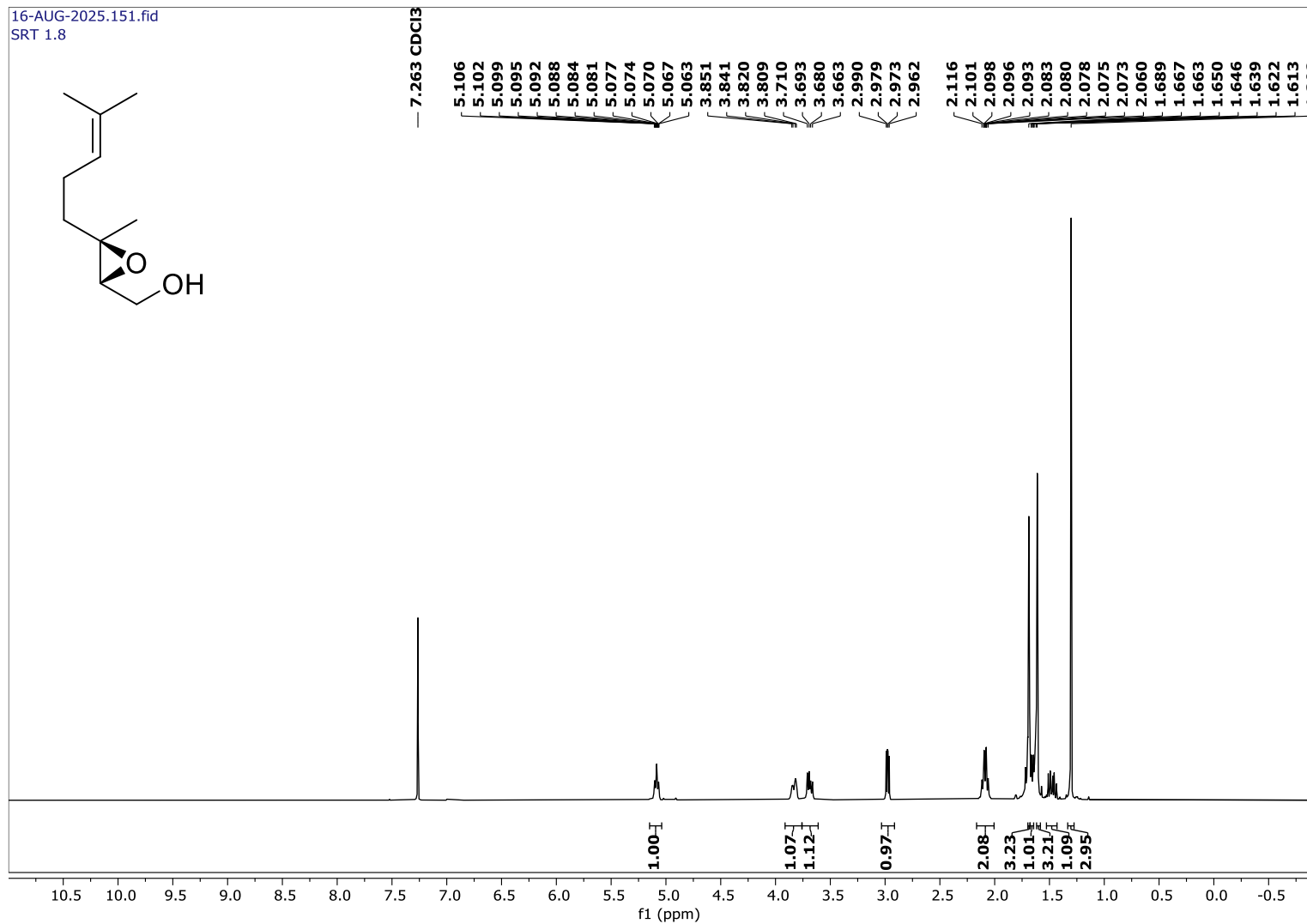
Total synthesis of (+)-cassiol

Badrodin Ayyub Shaikh,* Shoba R. Tejesvani

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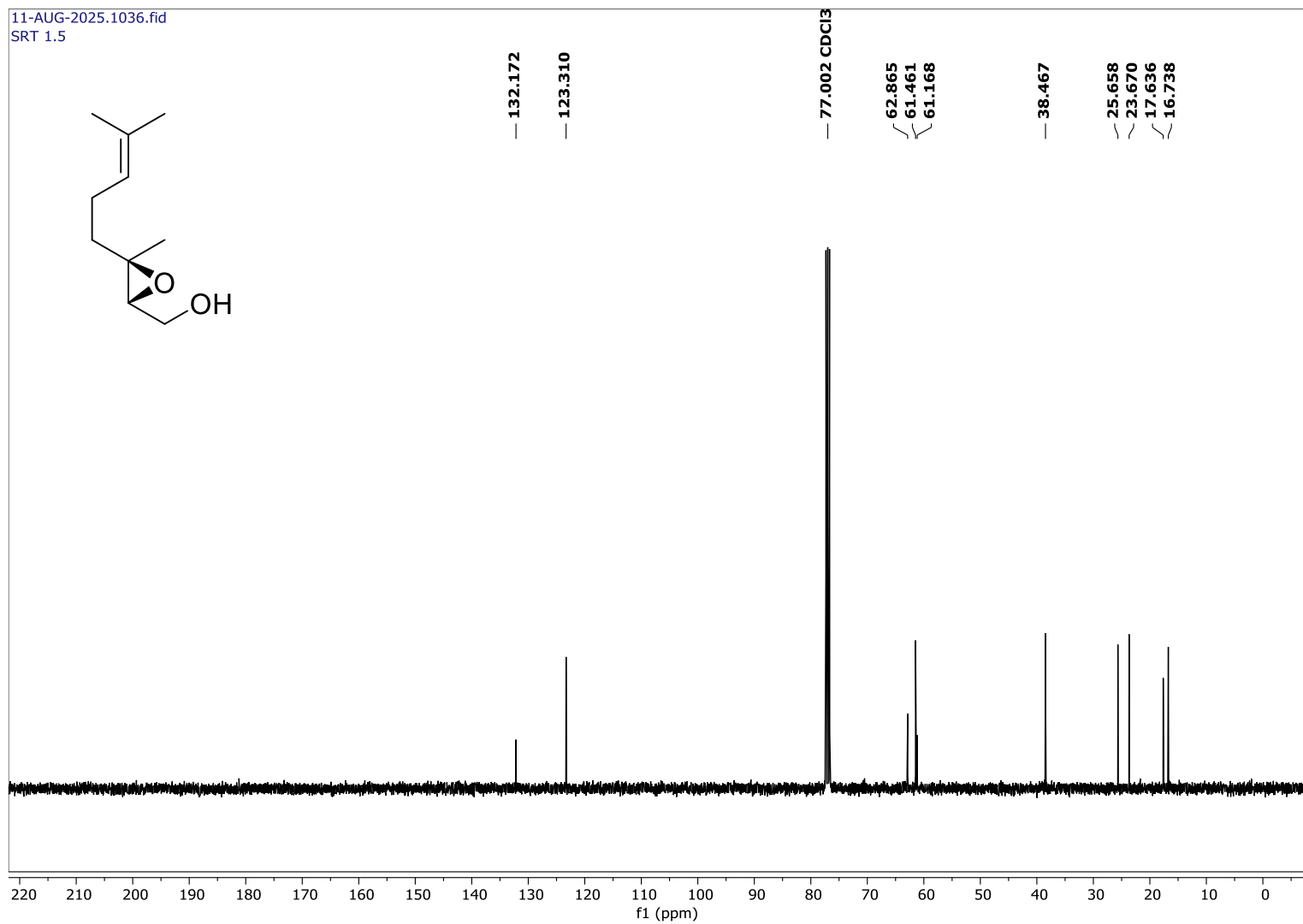
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2.	HPLC data for S3	S31-S32

16-AUG-2025.151.fid
SRT 1.8



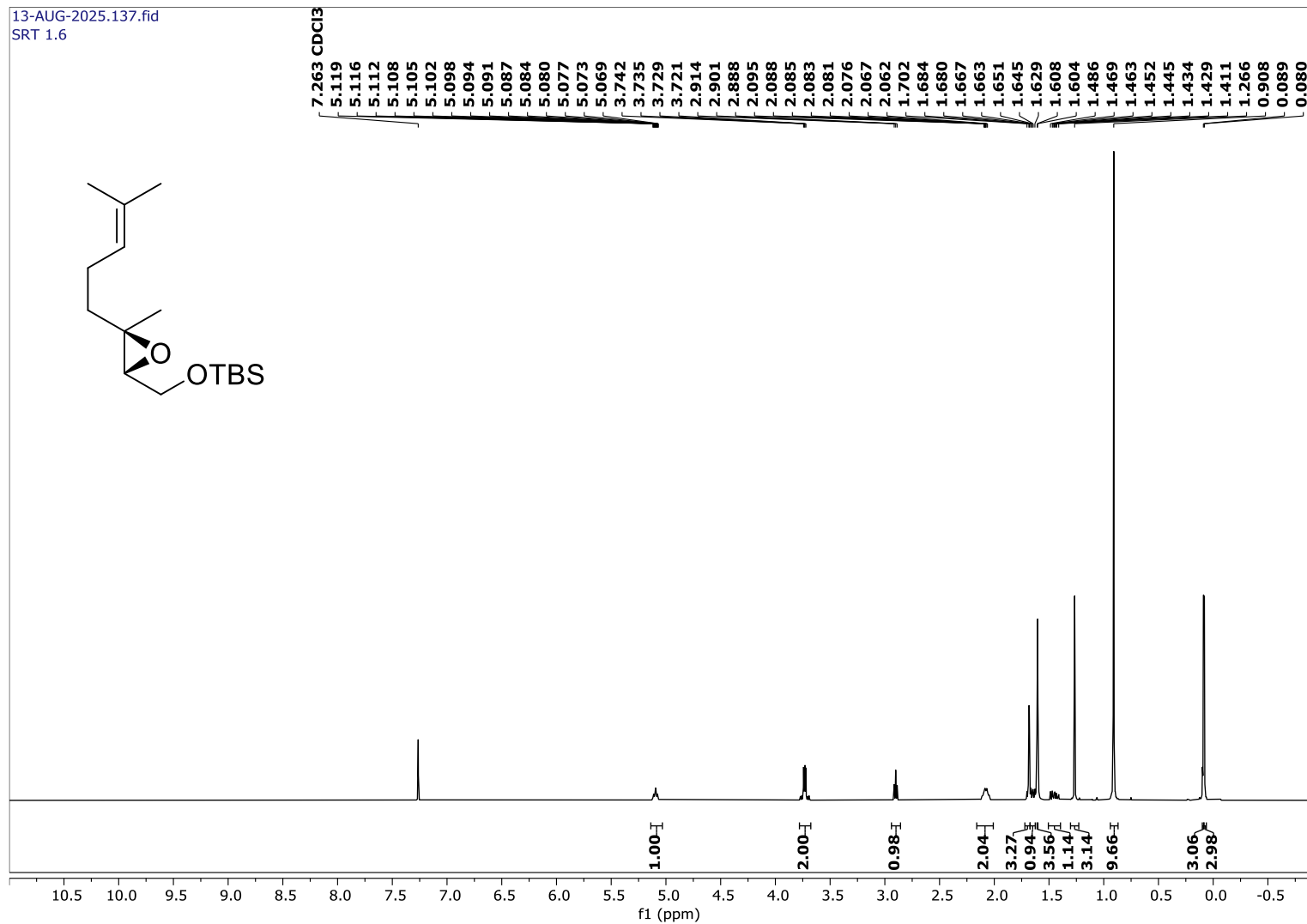
¹H NMR spectrum (400 MHz, CDCl₃) of **8**

11-AUG-2025.1036.fid
SRT 1.5



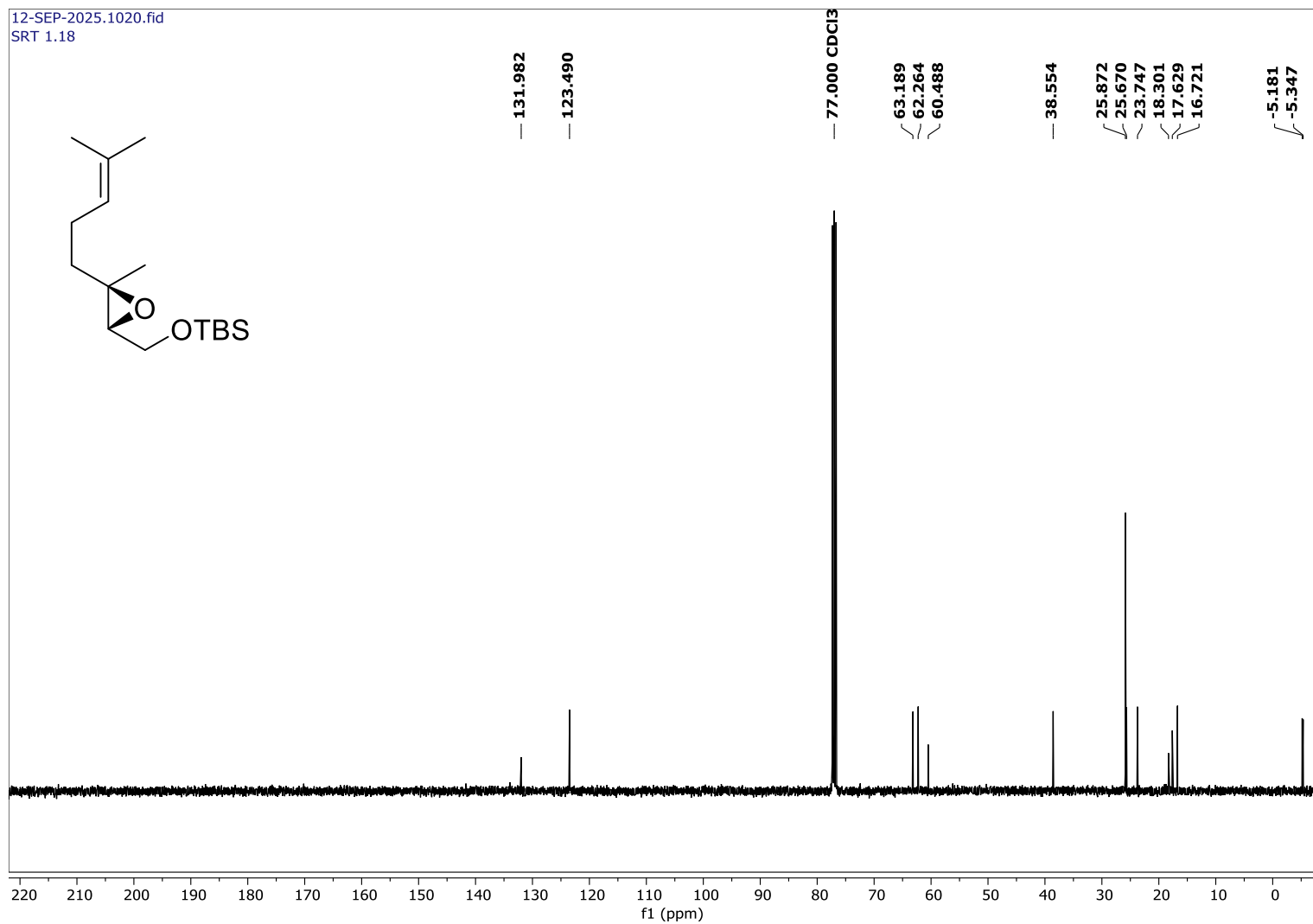
¹³C NMR spectrum (100 MHz, CDCl₃) of **8**

13-AUG-2025.137.fid
SRT 1.6



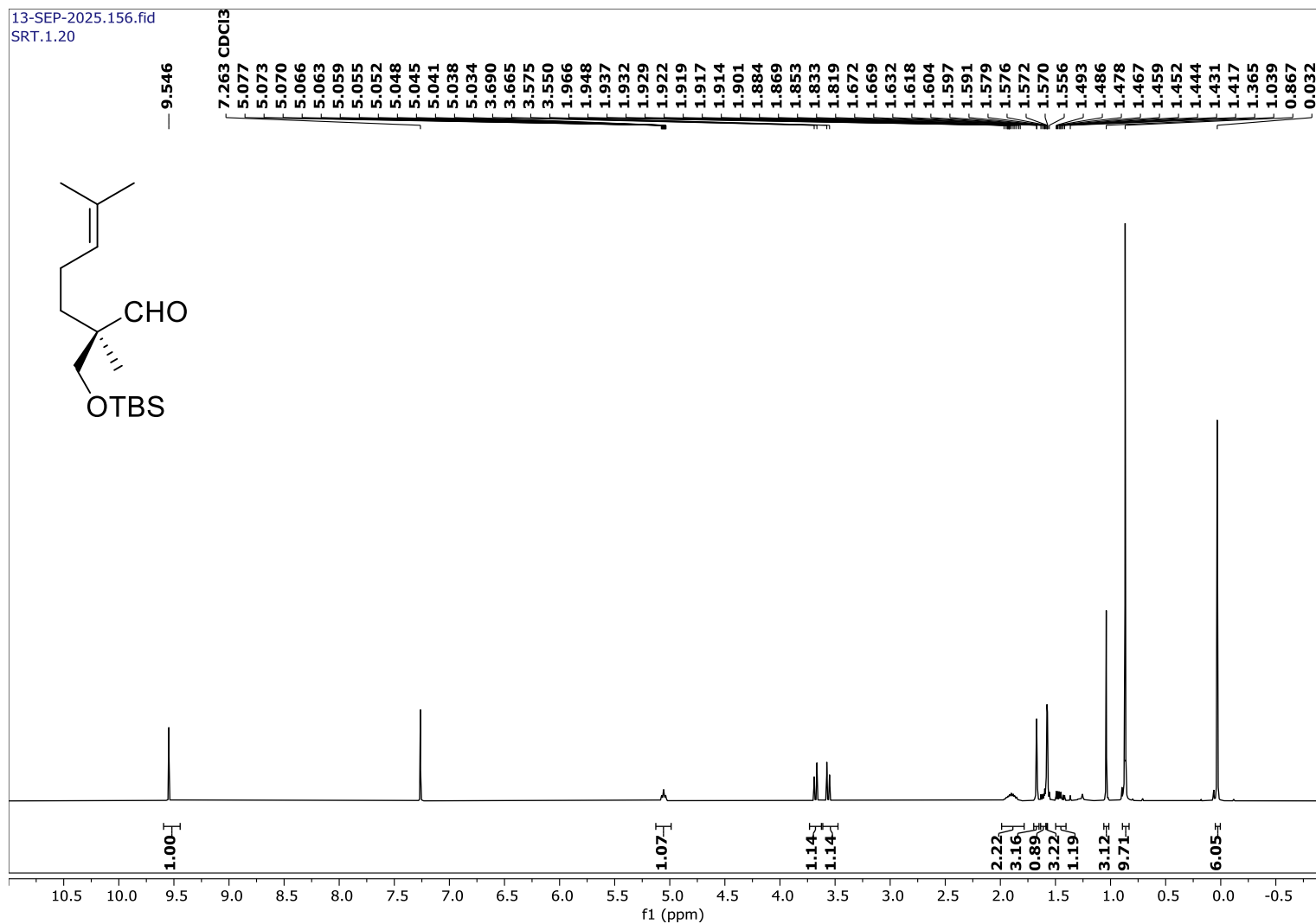
¹H NMR spectrum (400 MHz, CDCl₃) of 9

12-SEP-2025.1020.fid
SRT 1.18

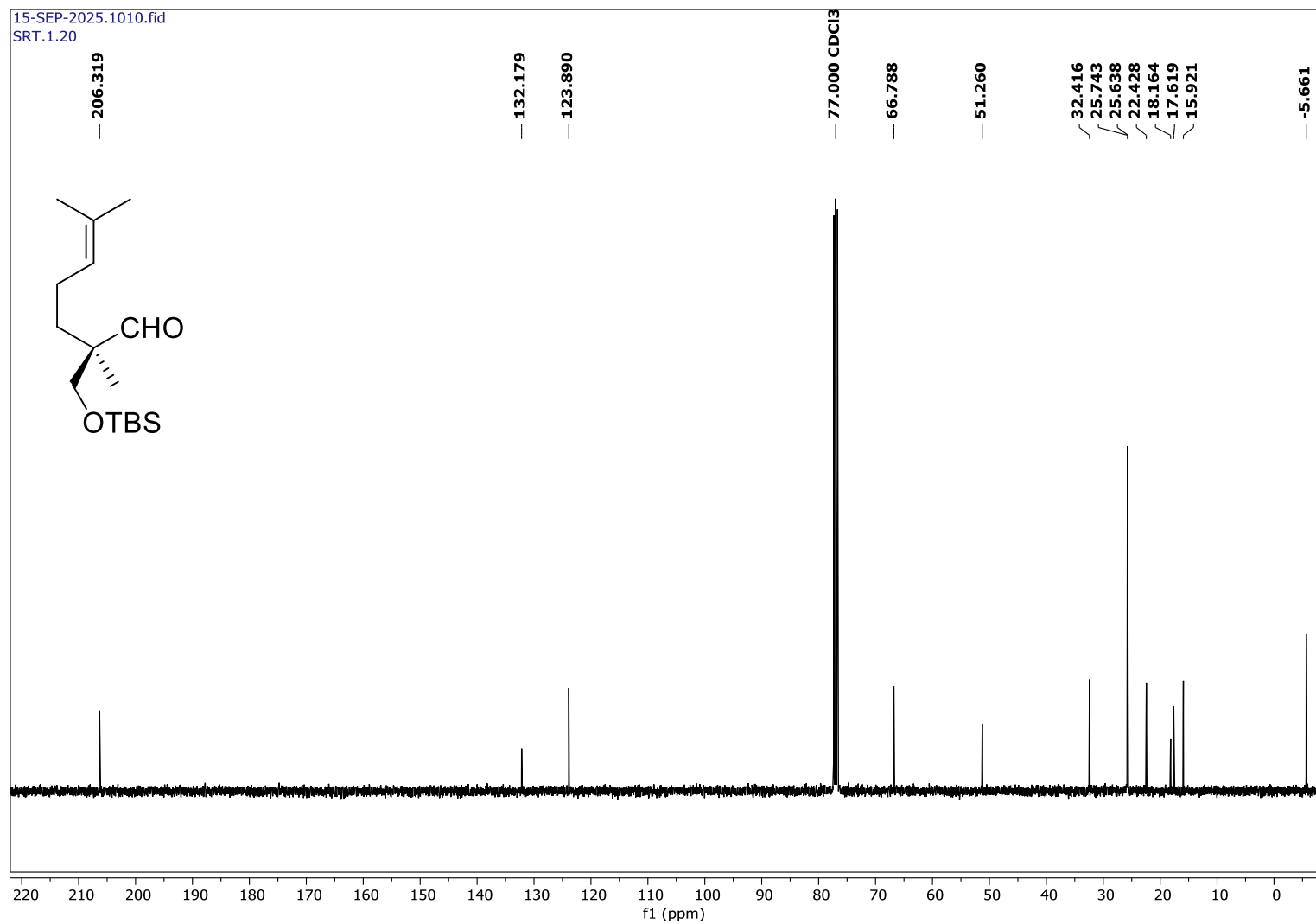


¹³C NMR spectrum (100 MHz, CDCl₃) of **9**

13-SEP-2025.156.fid
SRT.1.20

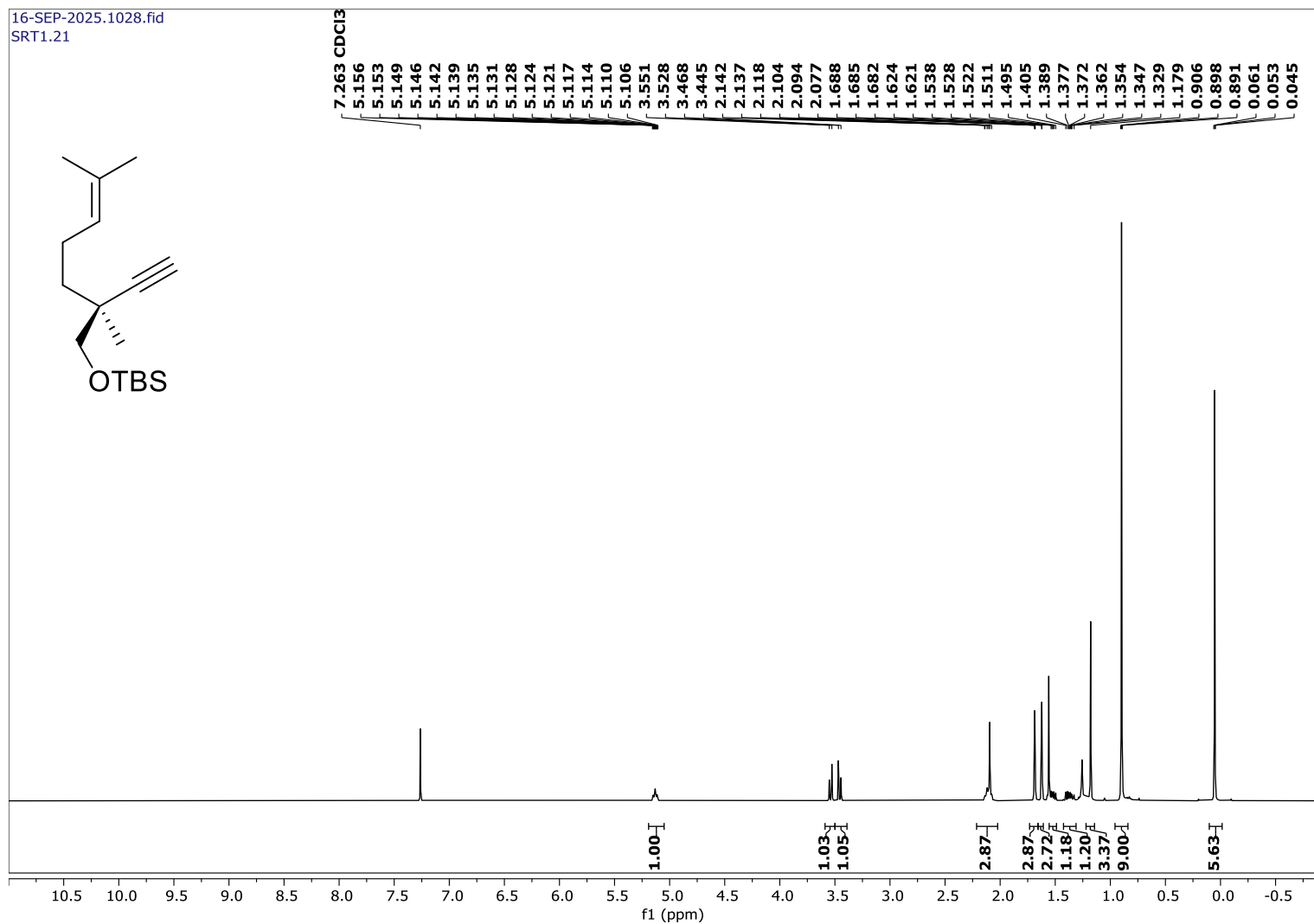


¹H NMR spectrum (400 MHz, CDCl₃) of **10**



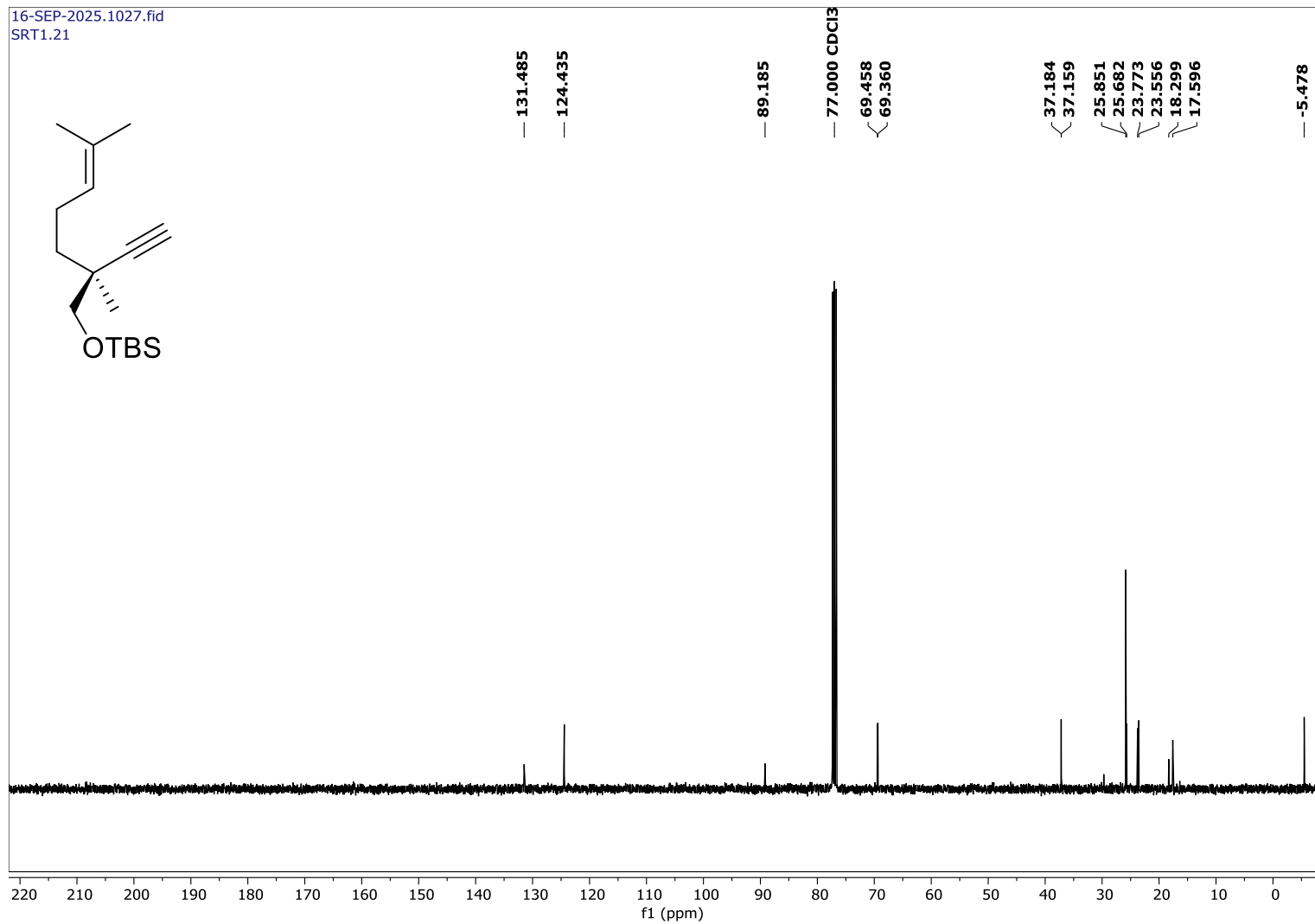
¹³C NMR spectrum (100 MHz, CDCl₃) of **10**

16-SEP-2025.1028.fid
SRT1.21



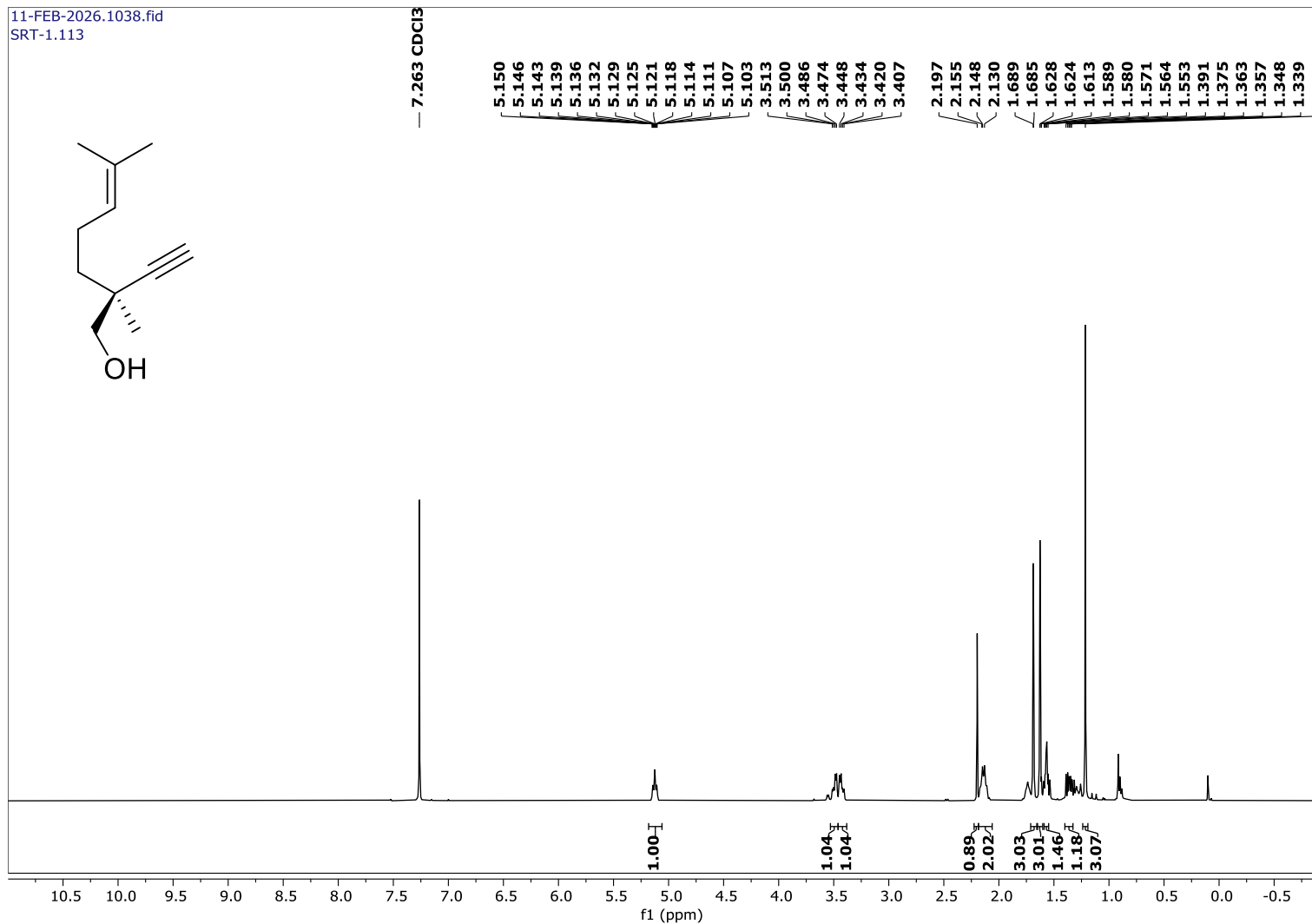
¹H NMR spectrum (400 MHz, CDCl₃) of 11

16-SEP-2025.1027.fid
SRT1.21

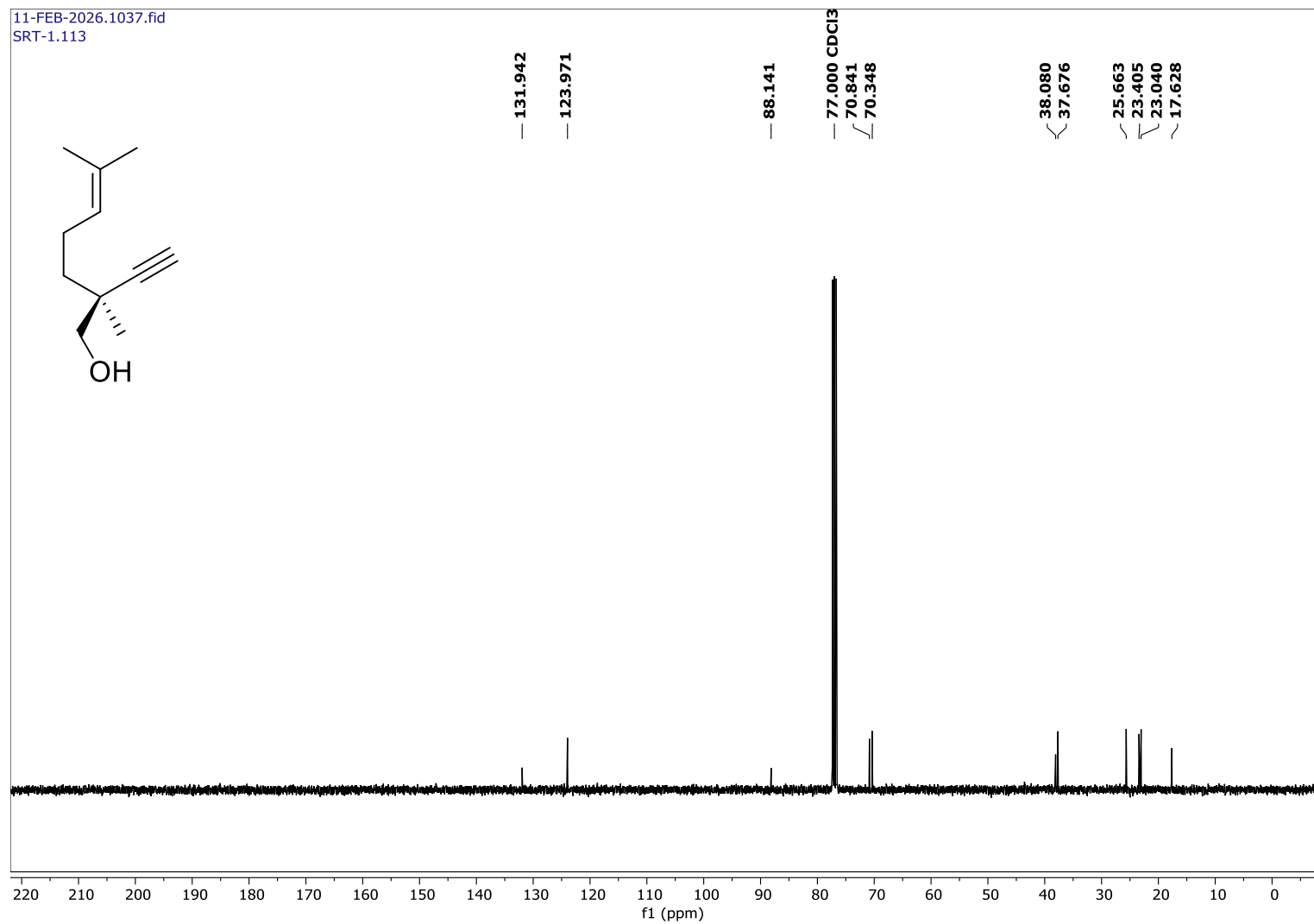


^{13}C NMR spectrum (100 MHz, CDCl_3) of 11

11-FEB-2026.1038.fid
SRT-1.113

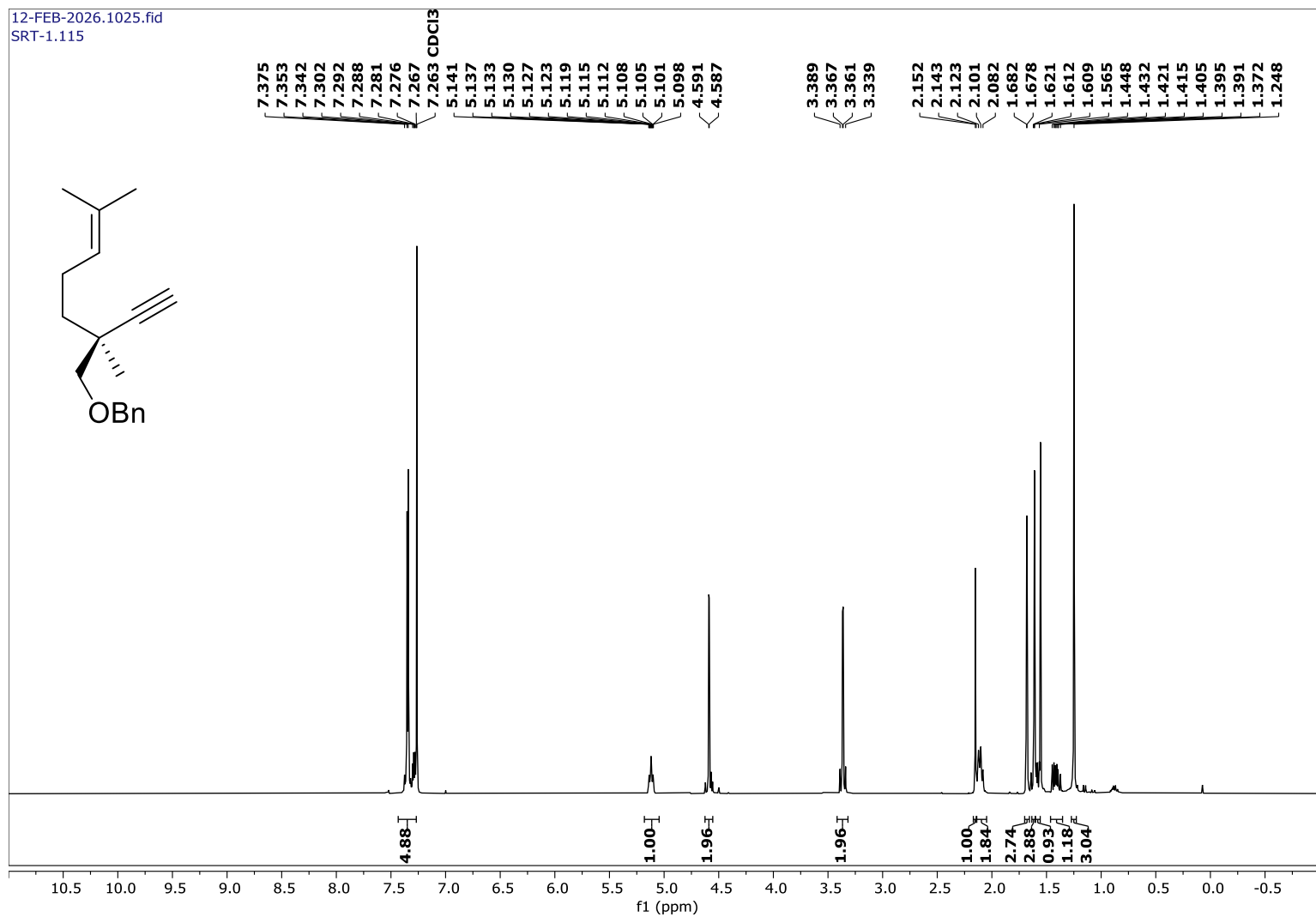


¹H NMR spectrum (400 MHz, CDCl₃) of S1

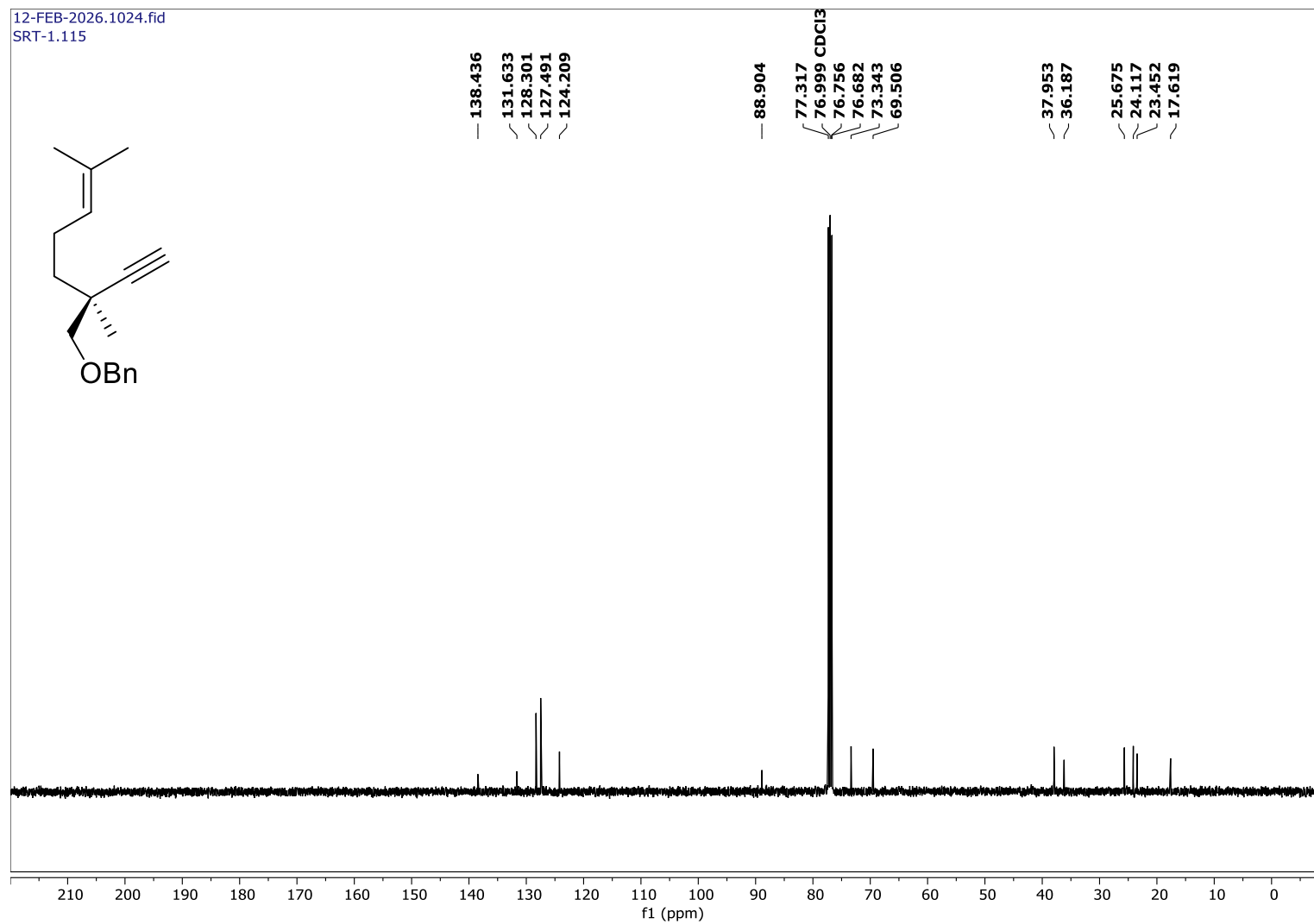


¹³C NMR spectrum (100 MHz, CDCl₃) of **S1**

12-FEB-2026.1025.fid
SRT-1.115

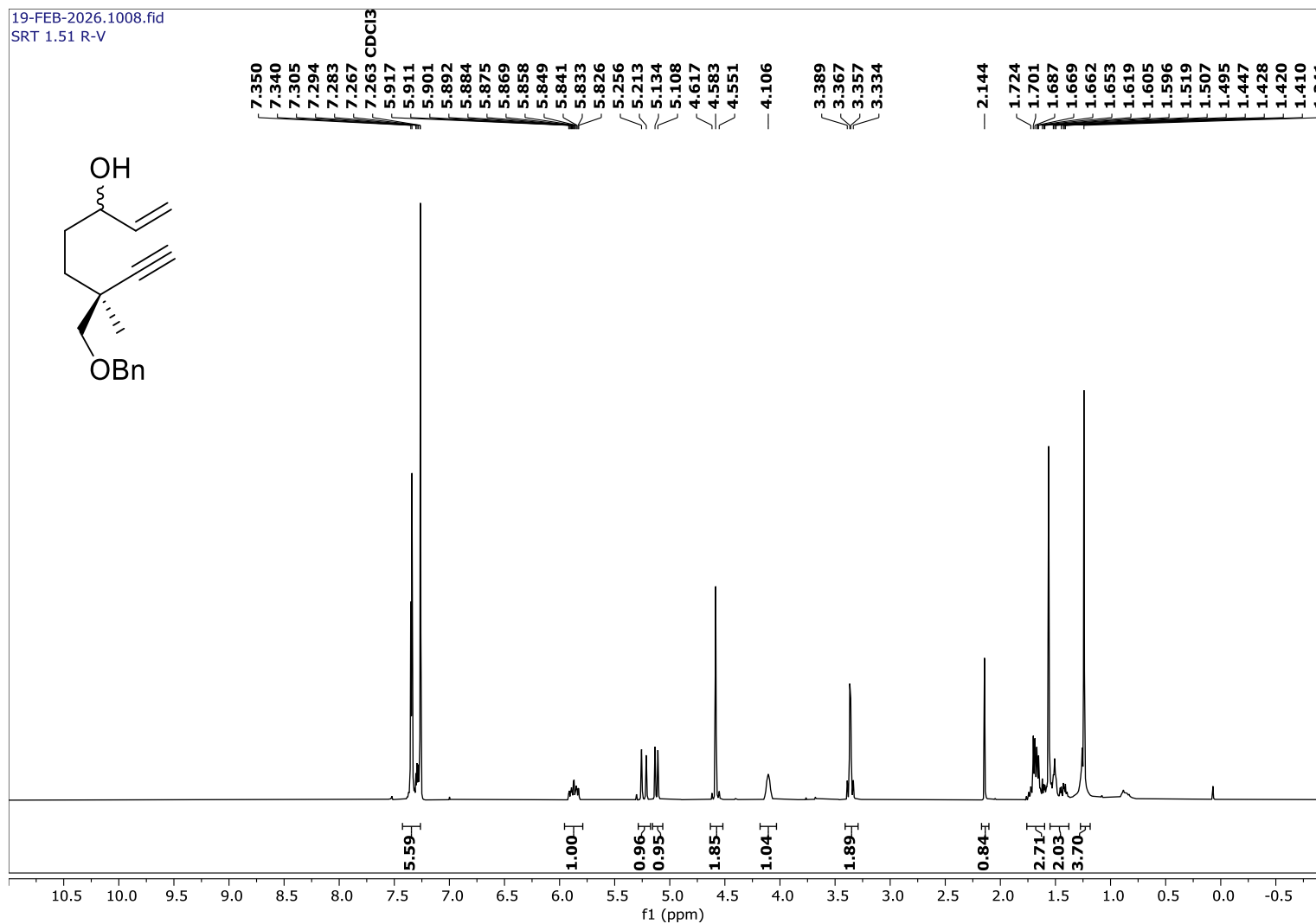


¹H NMR spectrum (400 MHz, CDCl₃) of **12**



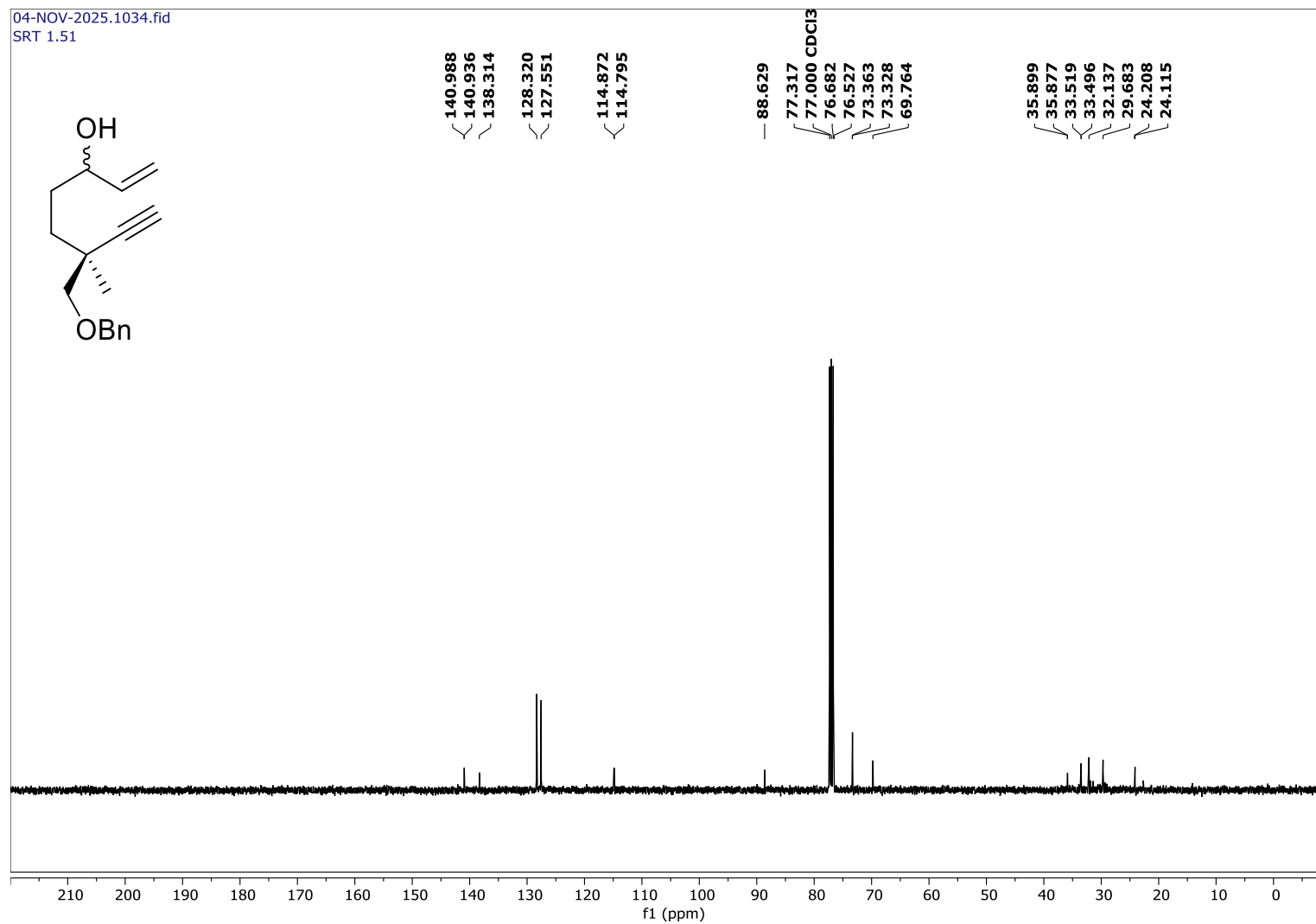
¹³C NMR spectrum (100 MHz, CDCl₃) of **12**

19-FEB-2026.1008.fid
SRT 1.51 R-V



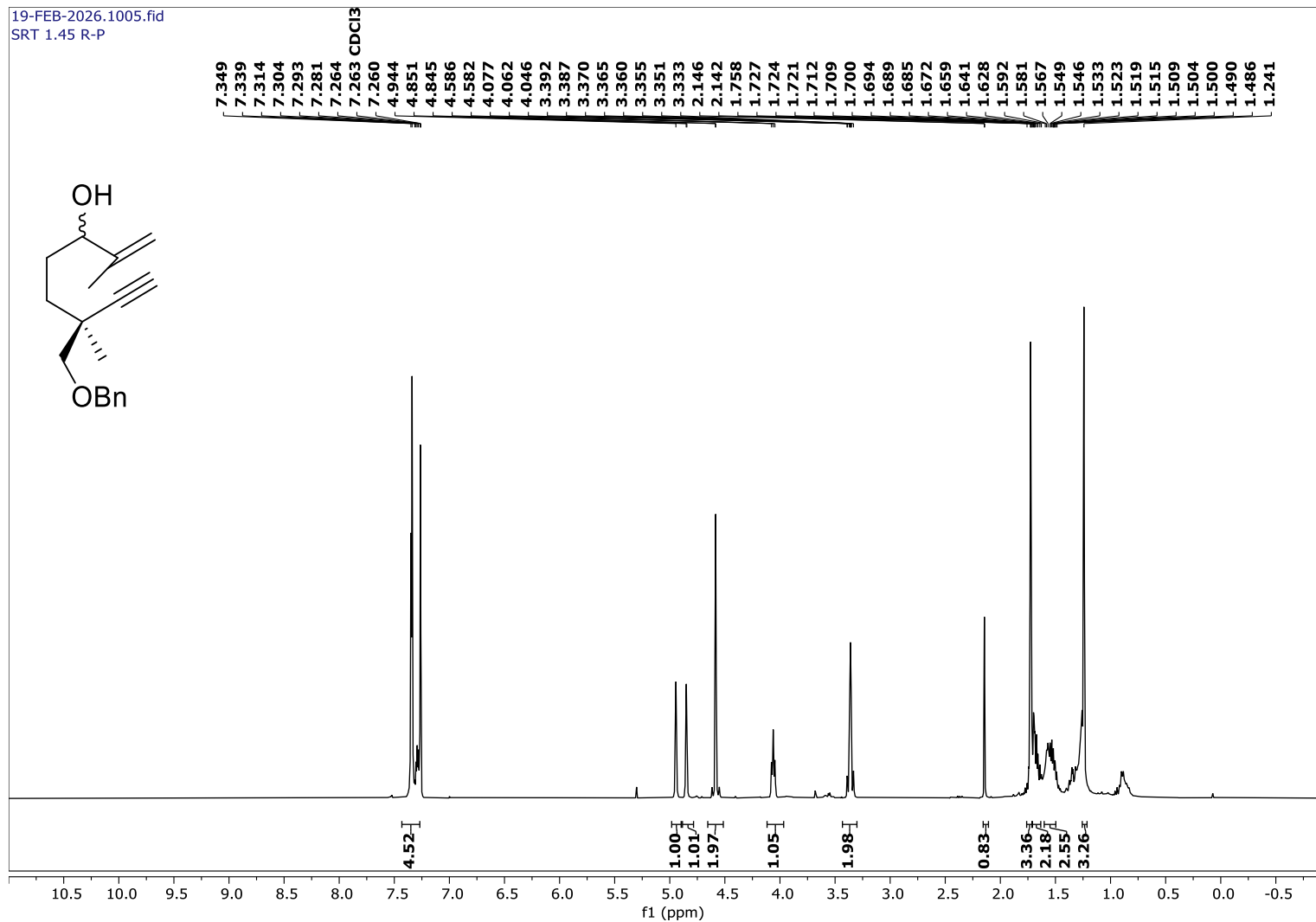
¹H NMR spectrum (400 MHz, CDCl₃) of 14

04-NOV-2025.1034.fid
SRT 1.51



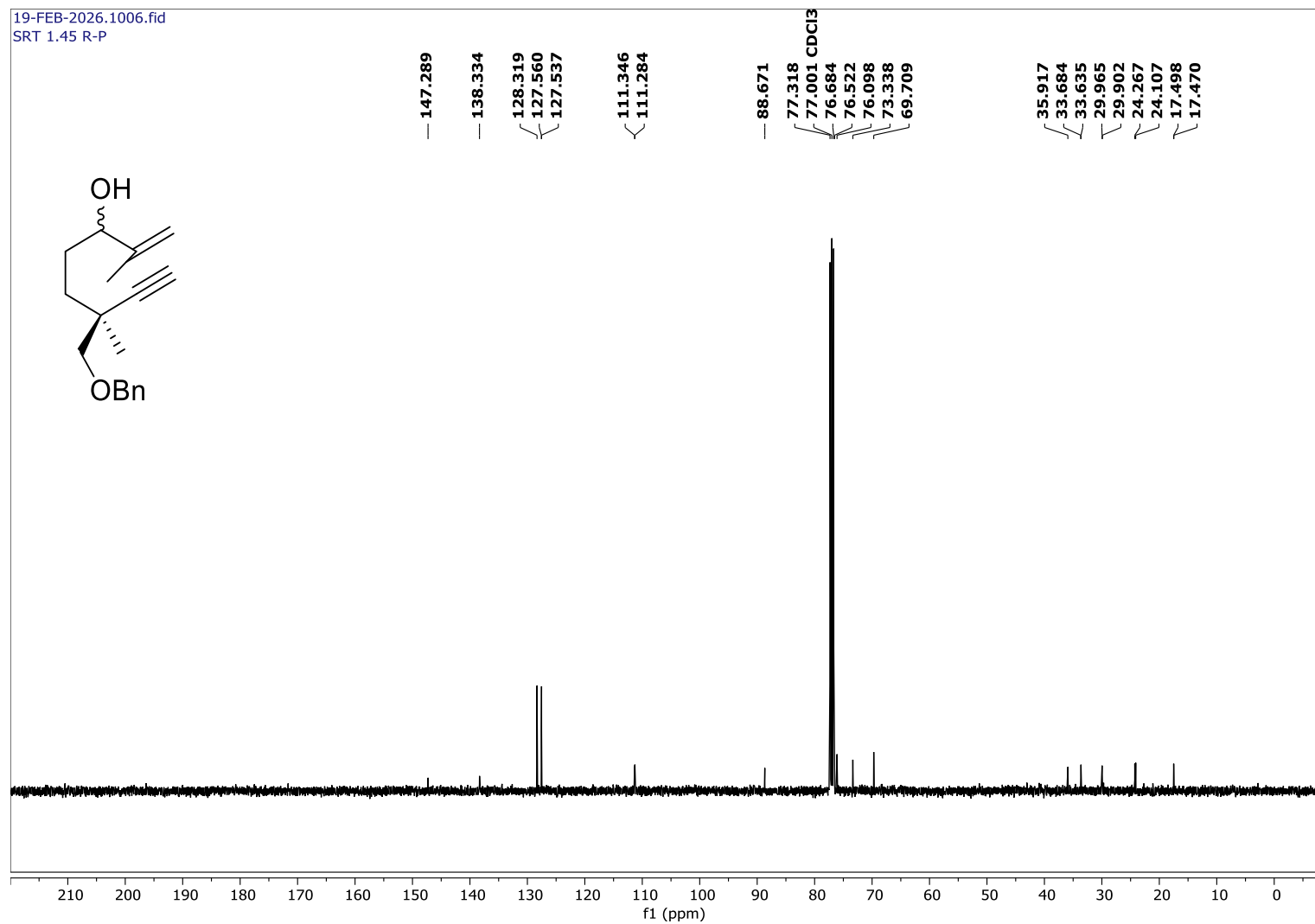
¹³C NMR spectrum (100 MHz, CDCl₃) of **14**

19-FEB-2026.1005.fid
SRT 1.45 R-P

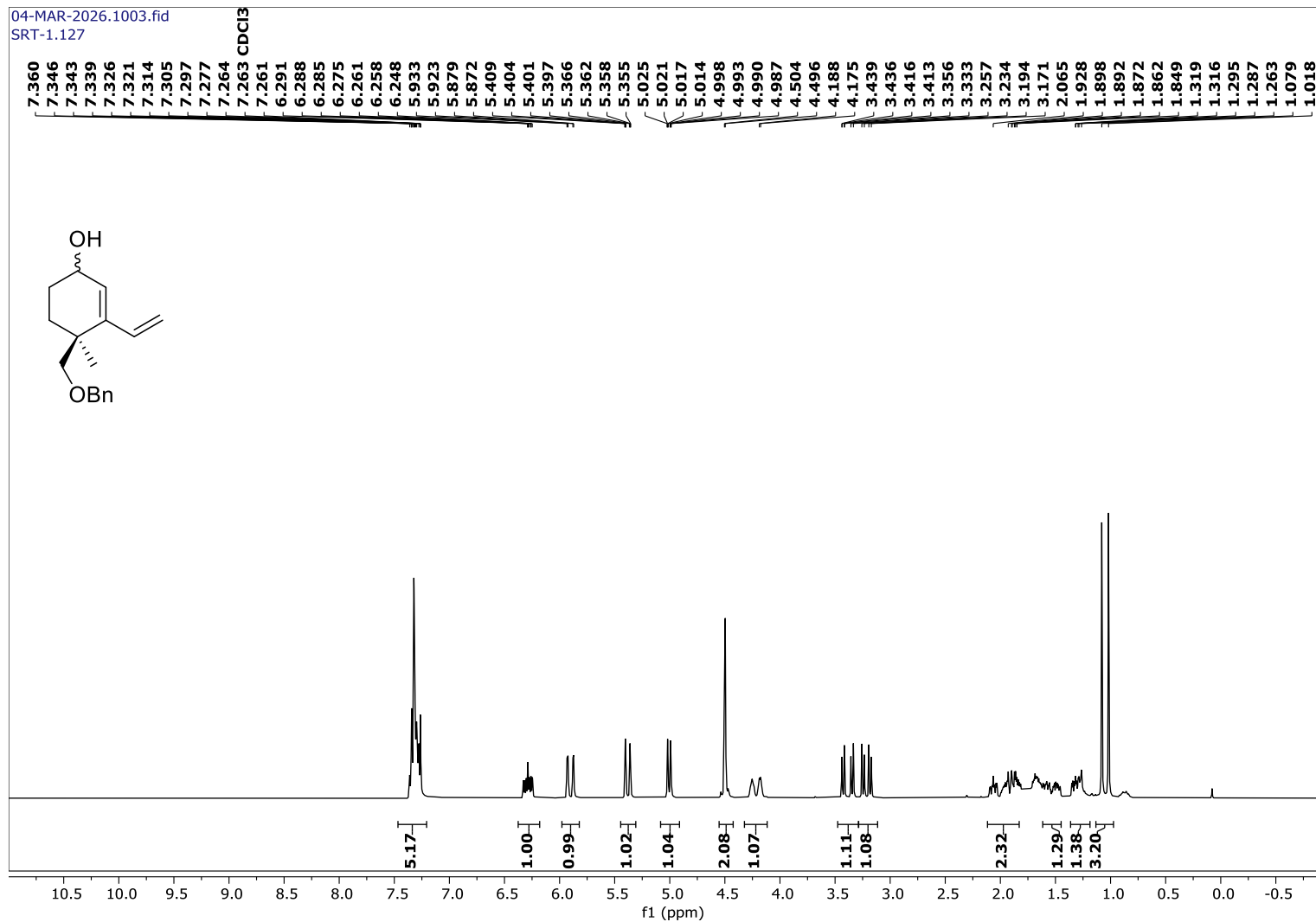


¹H NMR spectrum (400 MHz, CDCl₃) of 13

19-FEB-2026.1006.fid
SRT 1.45 R-P

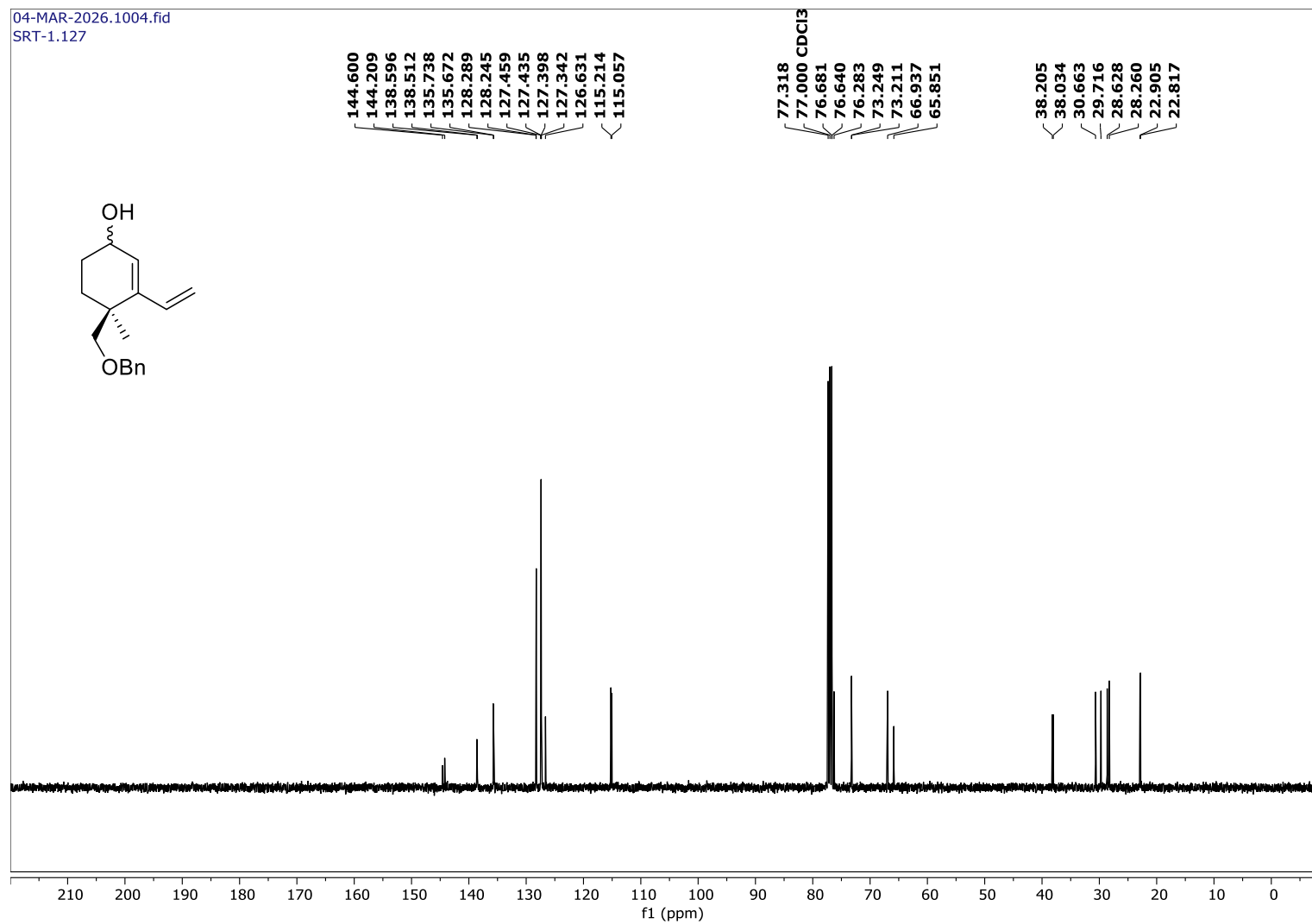


¹³C NMR spectrum (100 MHz, CDCl₃) of **13**

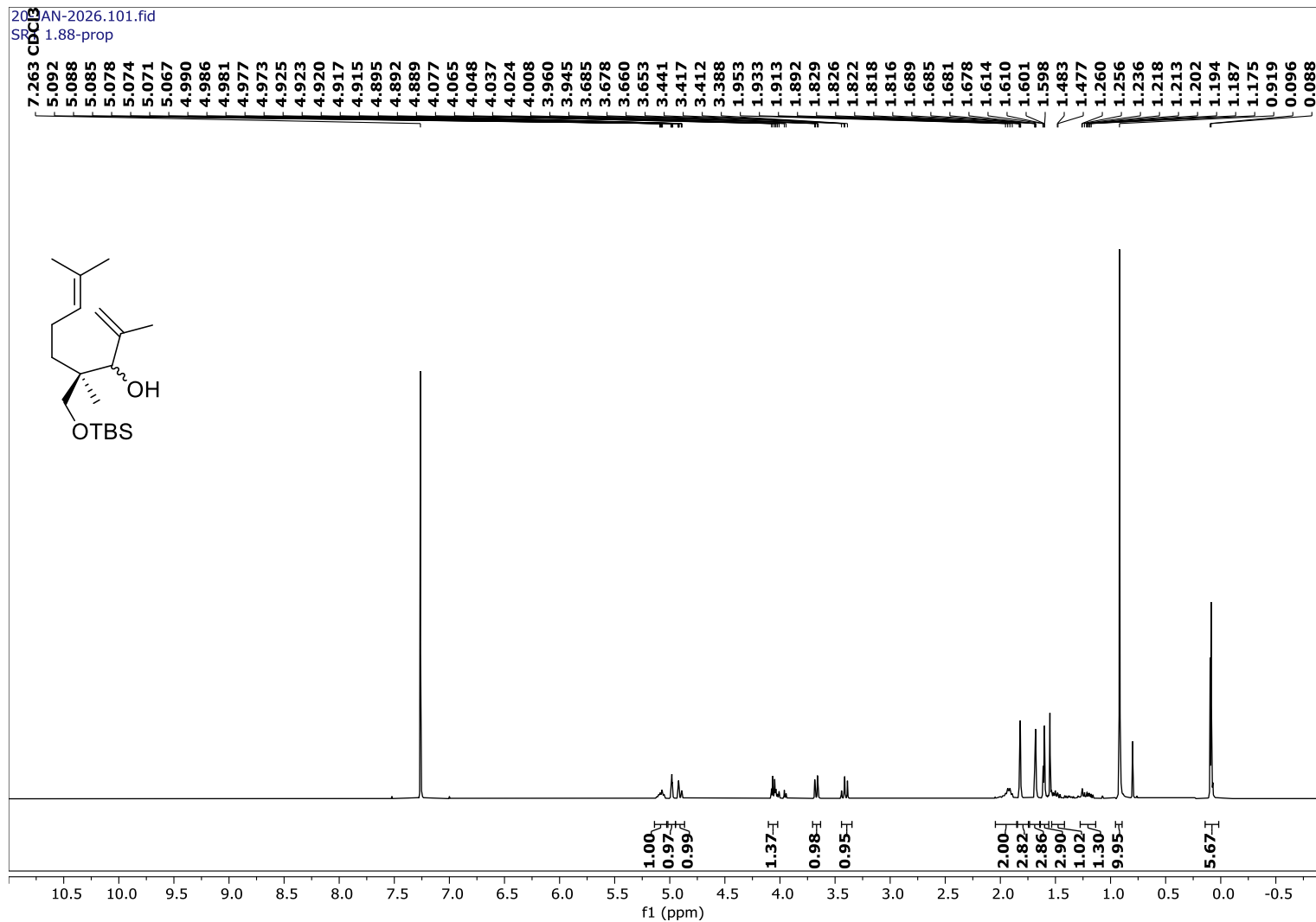


¹H NMR spectrum (400 MHz, CDCl₃) of **15**

04-MAR-2026.1004.fid
SRT-1.127

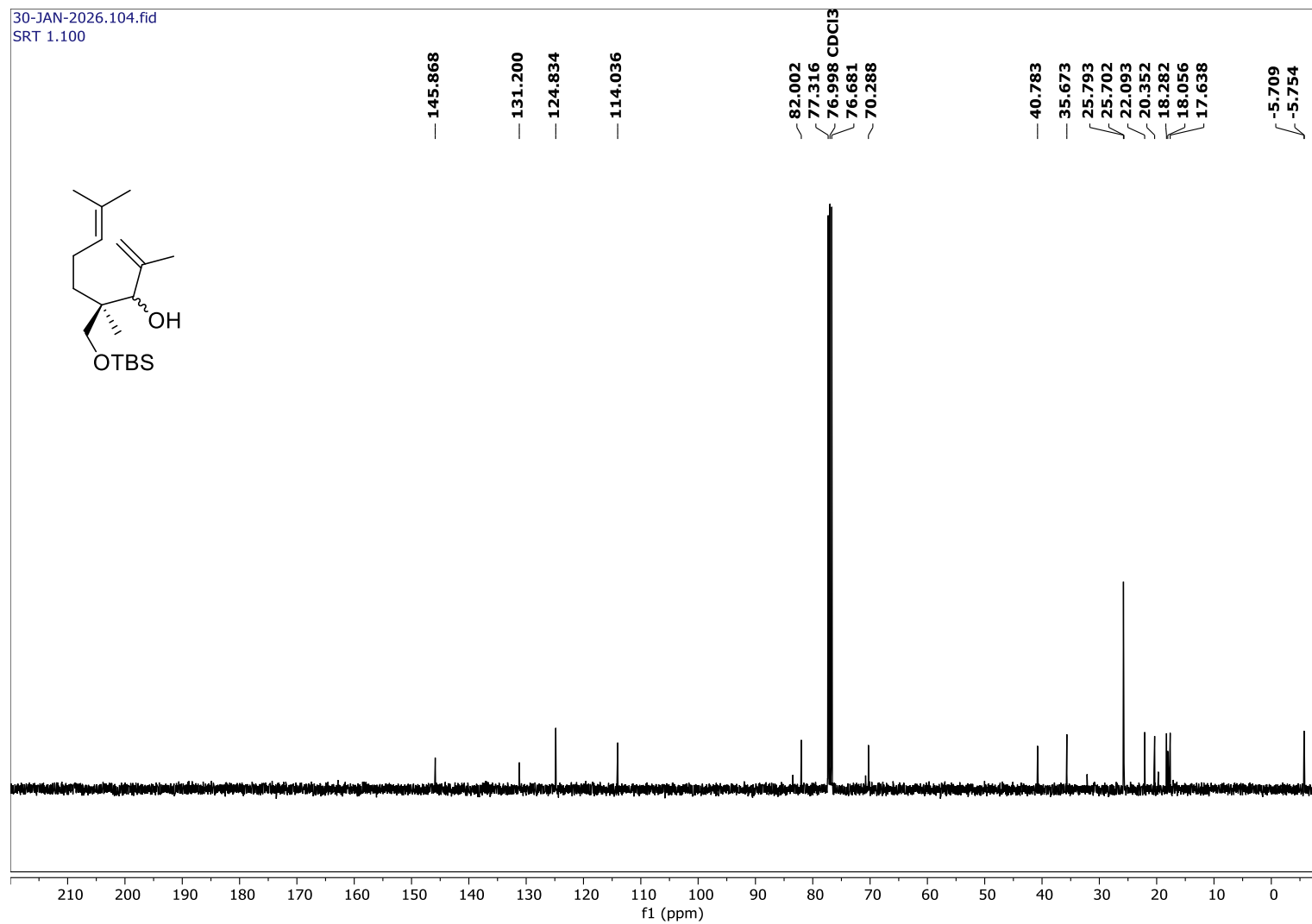


¹³C NMR spectrum (100 MHz, CDCl₃) of **15**

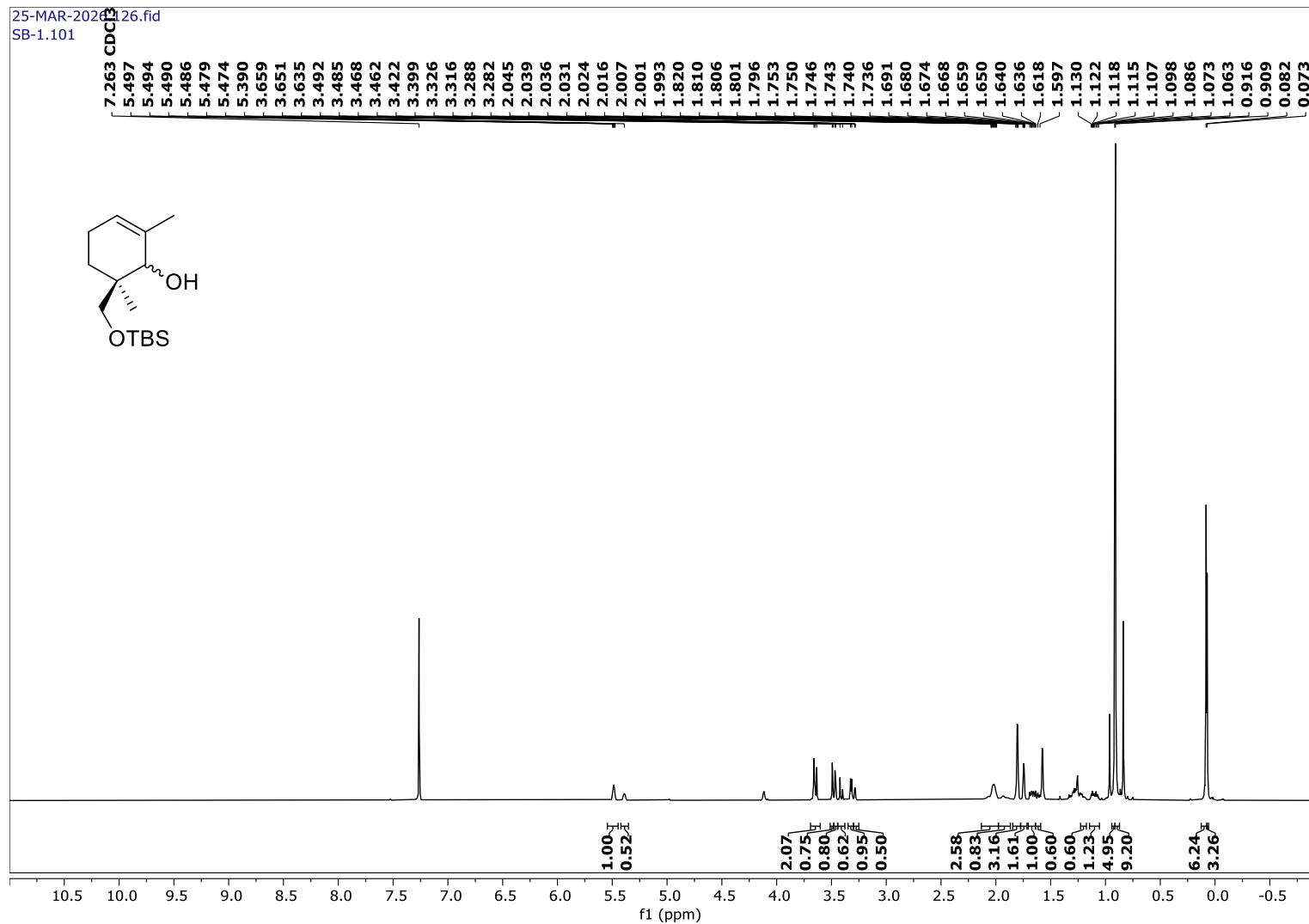


¹H NMR spectrum (400 MHz, CDCl₃) of **20**

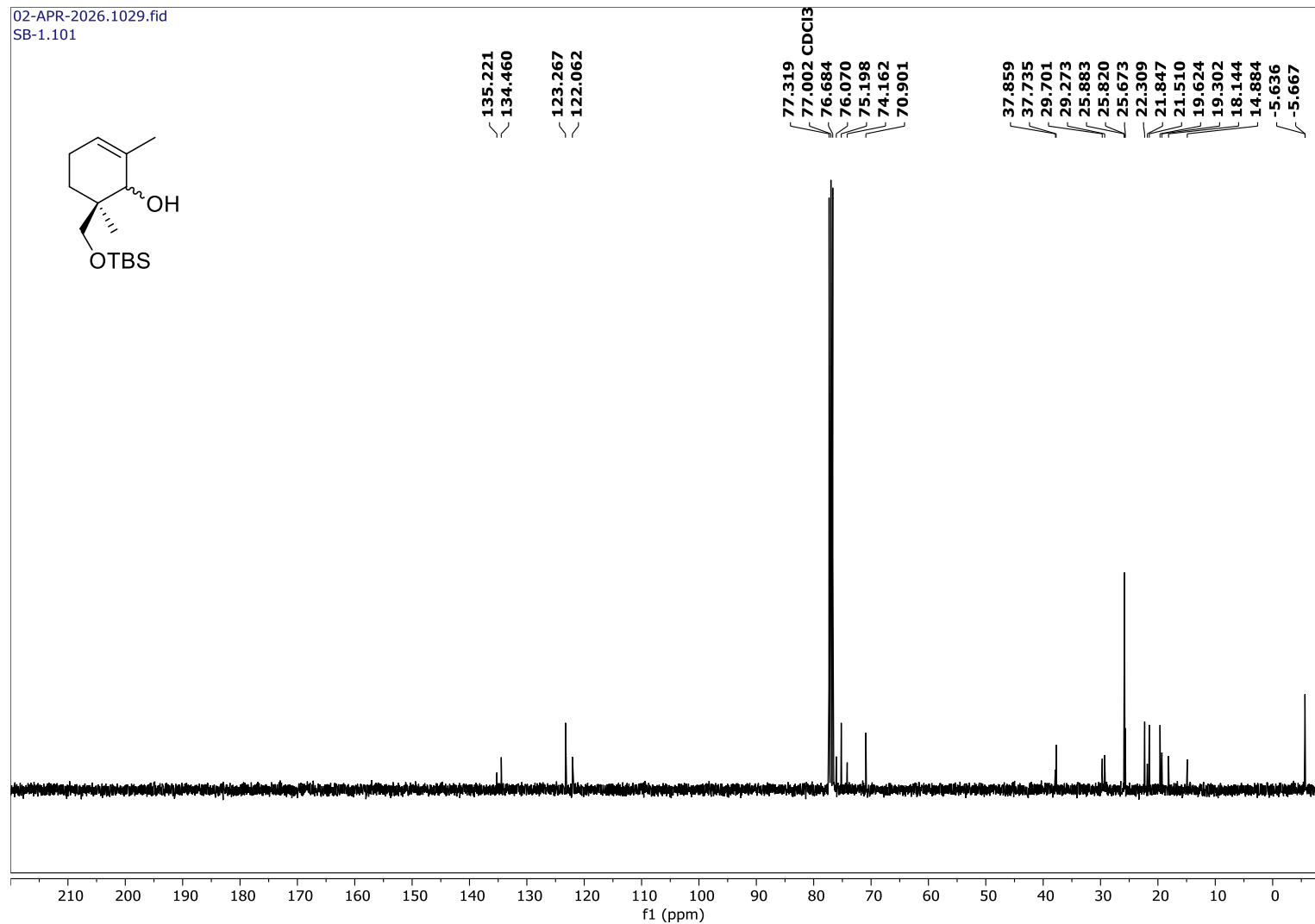
30-JAN-2026.104.fid
SRT 1.100



¹³C NMR spectrum (100 MHz, CDCl₃) of **20**

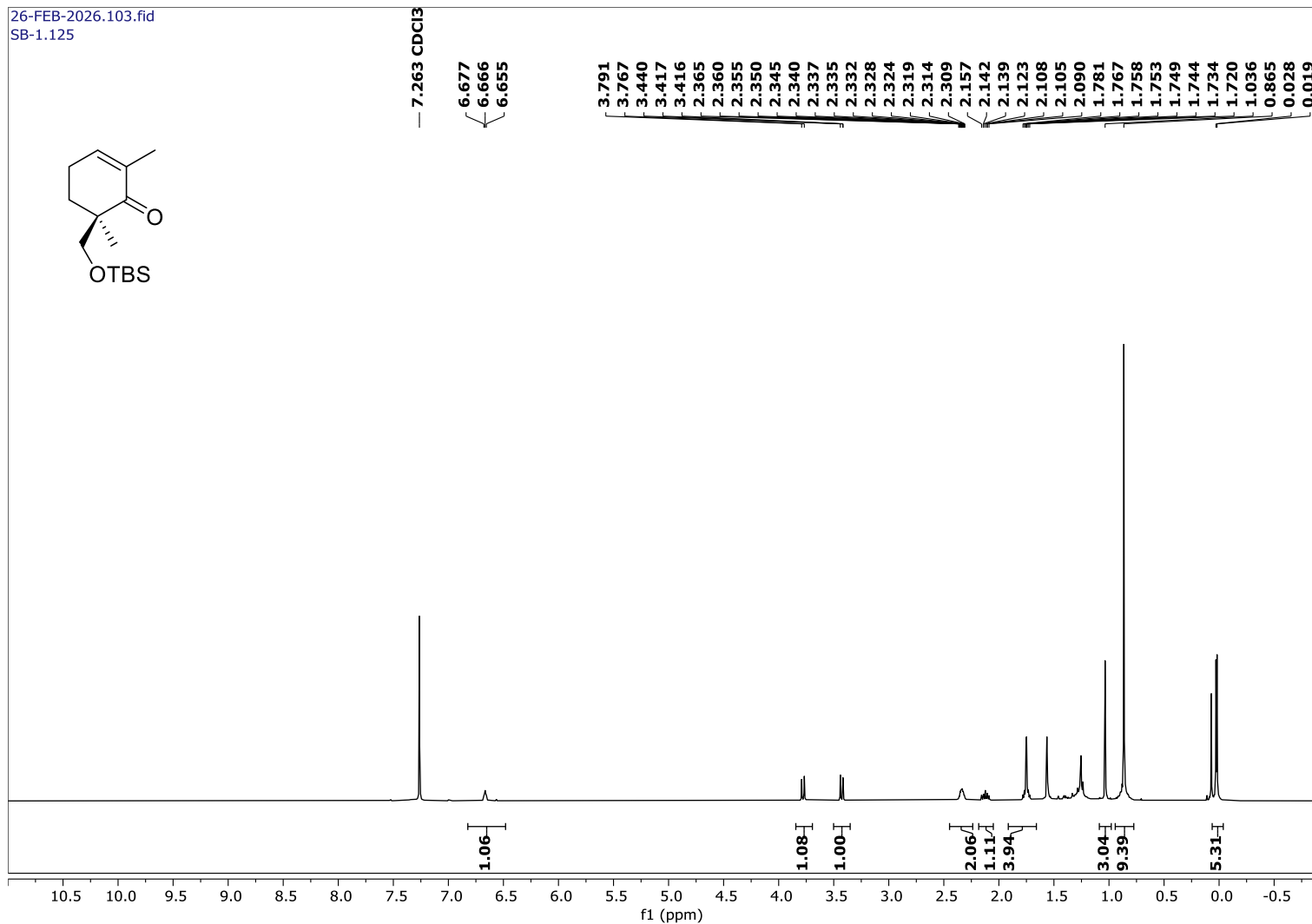
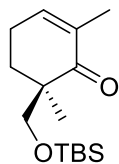


¹H NMR spectrum (400 MHz, CDCl₃) of **S2**



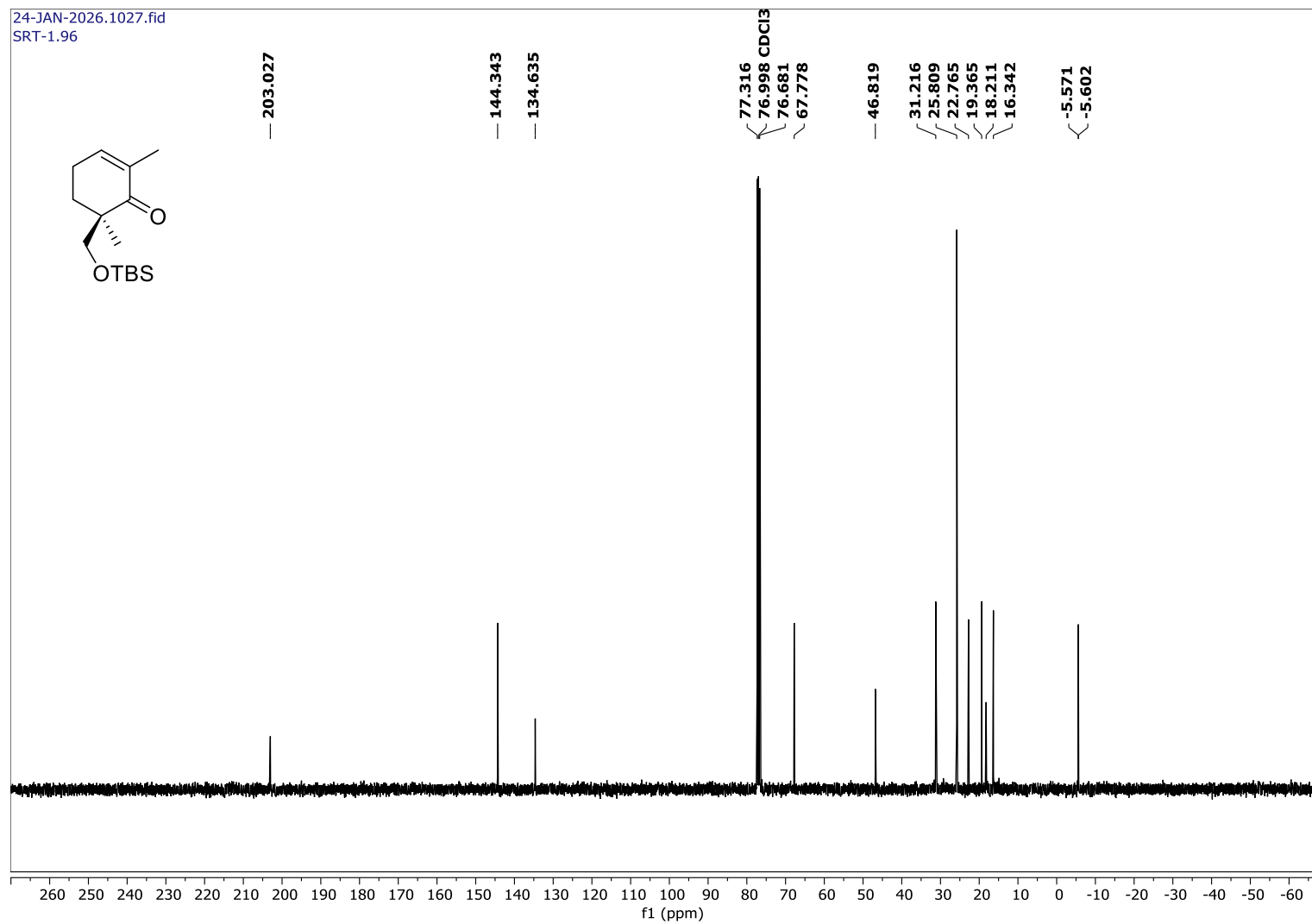
¹³C NMR spectrum (100 MHz, CDCl₃) of S2

26-FEB-2026.103.fid
SB-1.125

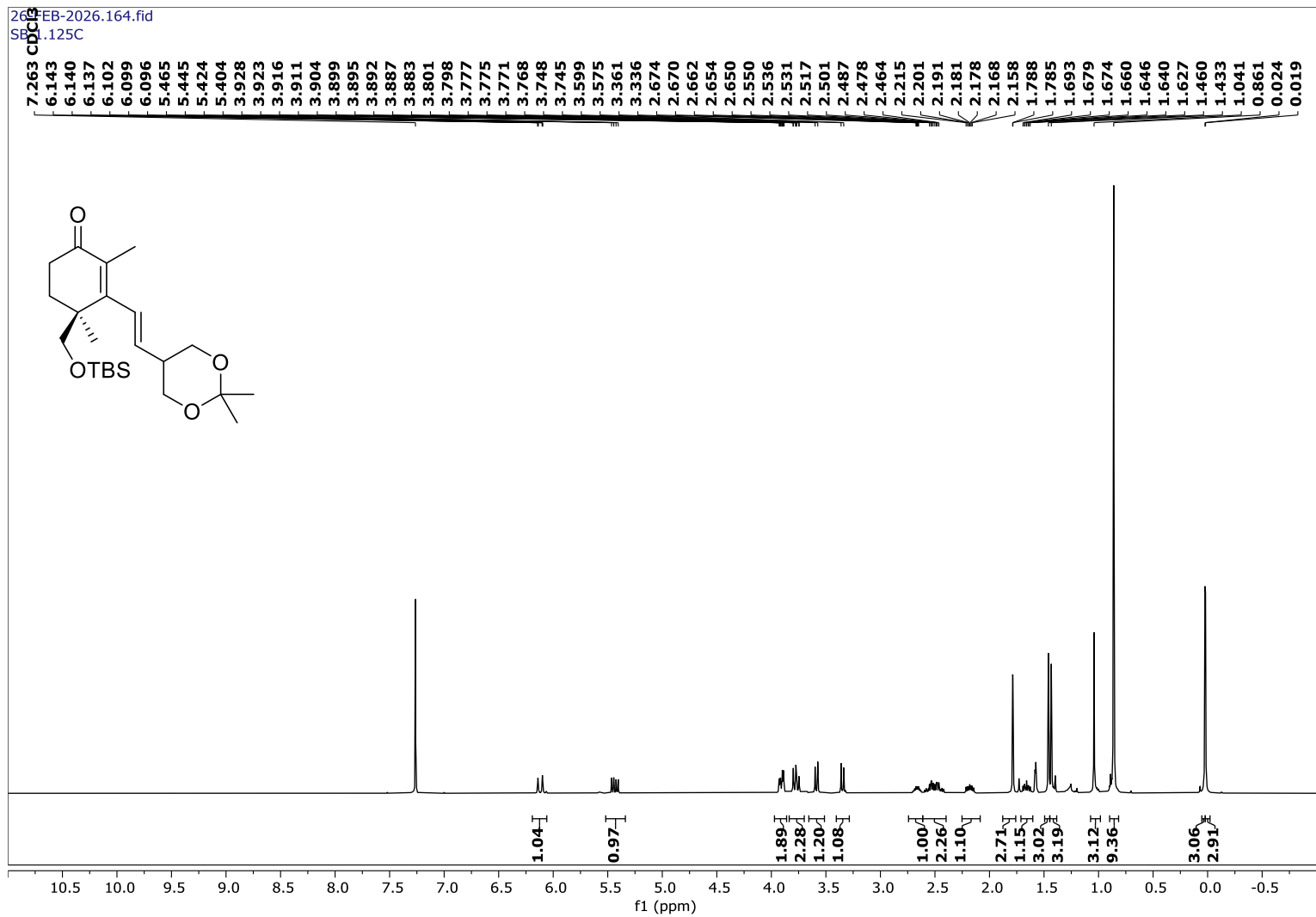


¹H NMR spectrum (400 MHz, CDCl₃) of **21**

24-JAN-2026.1027.fid
SRT-1.96

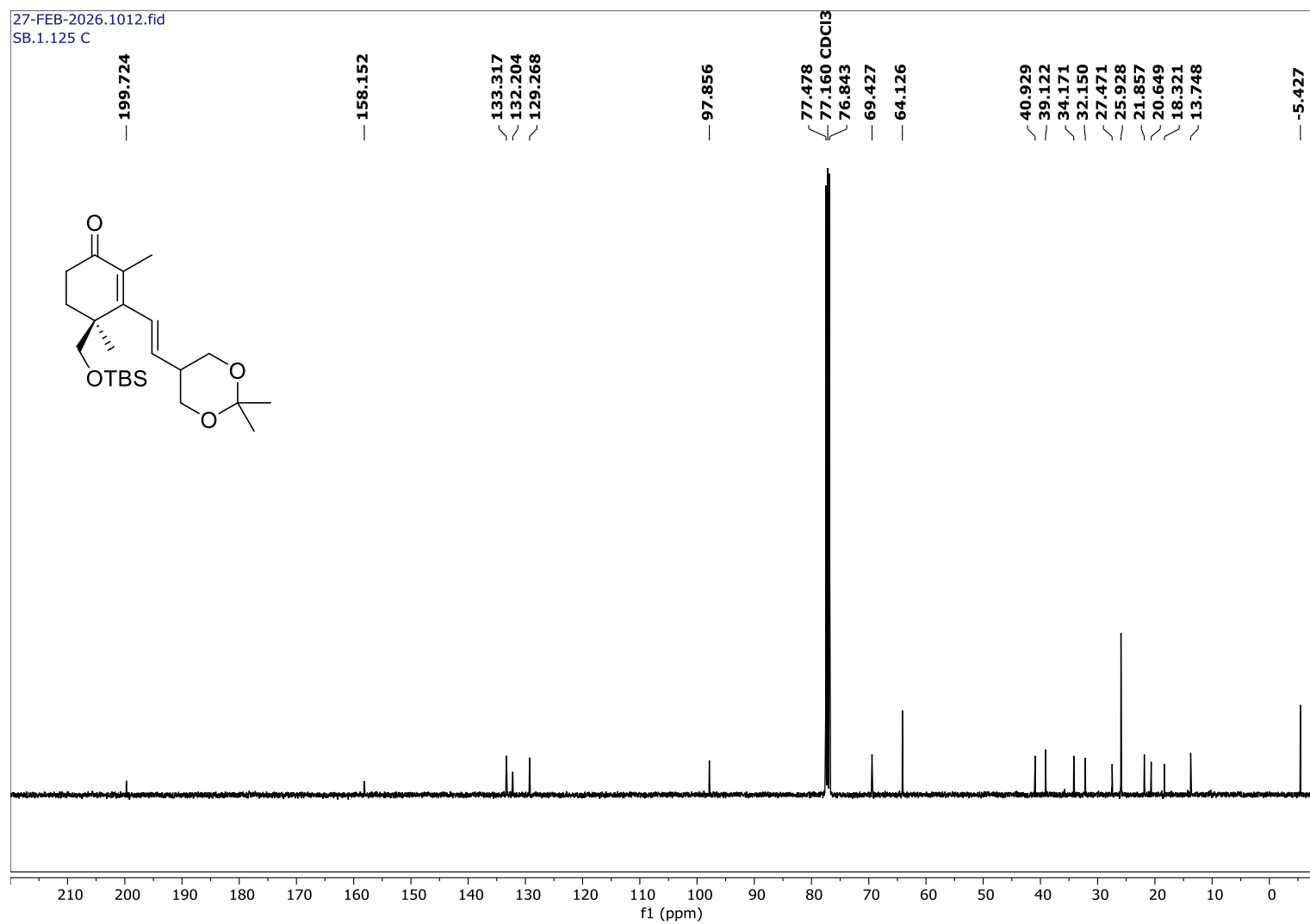


^{13}C NMR spectrum (100 MHz, CDCl_3) of **21**

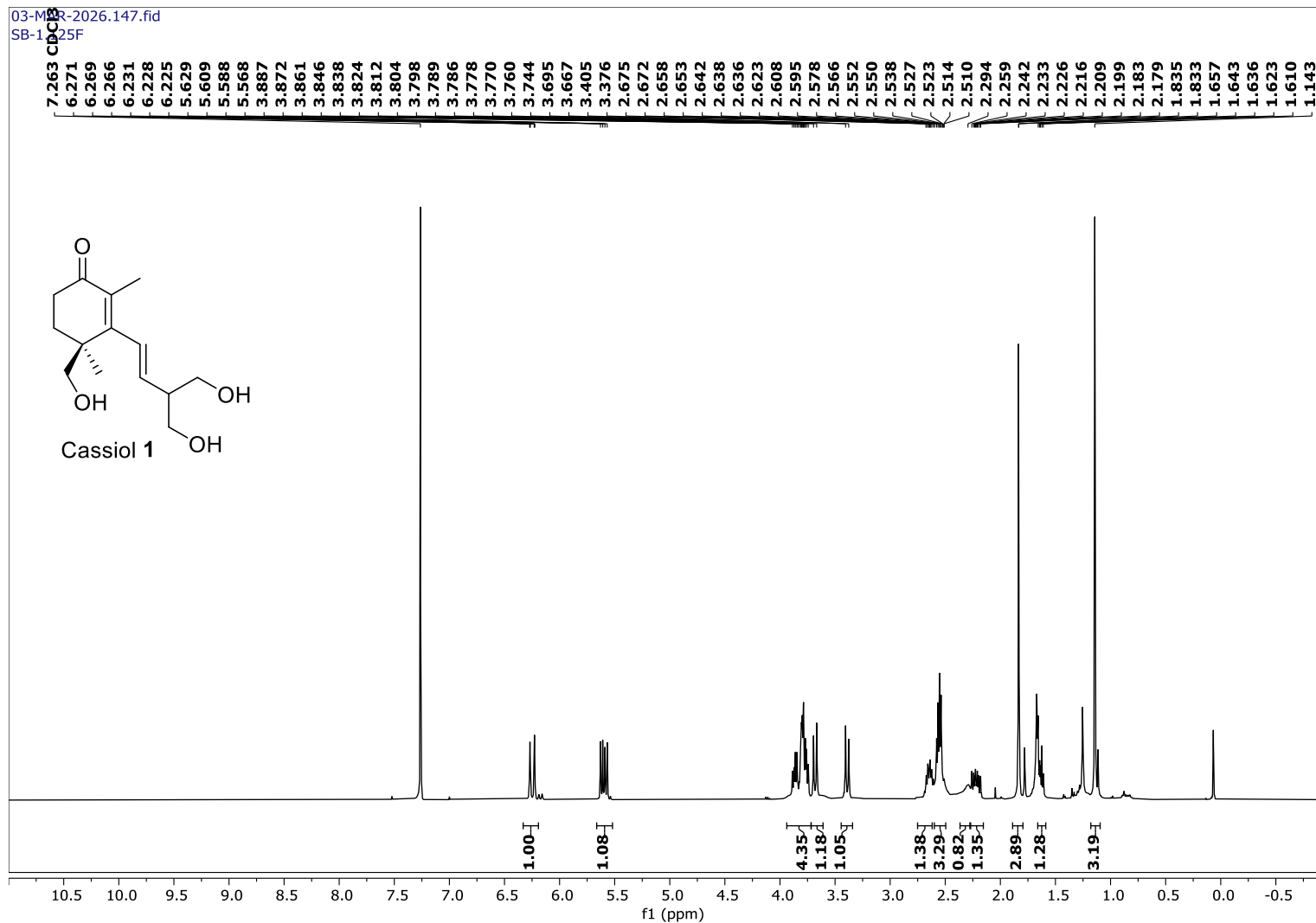


¹H NMR spectrum (400 MHz, CDCl₃) of **22**

27-FEB-2026.1012.fid
SB.1.125 C

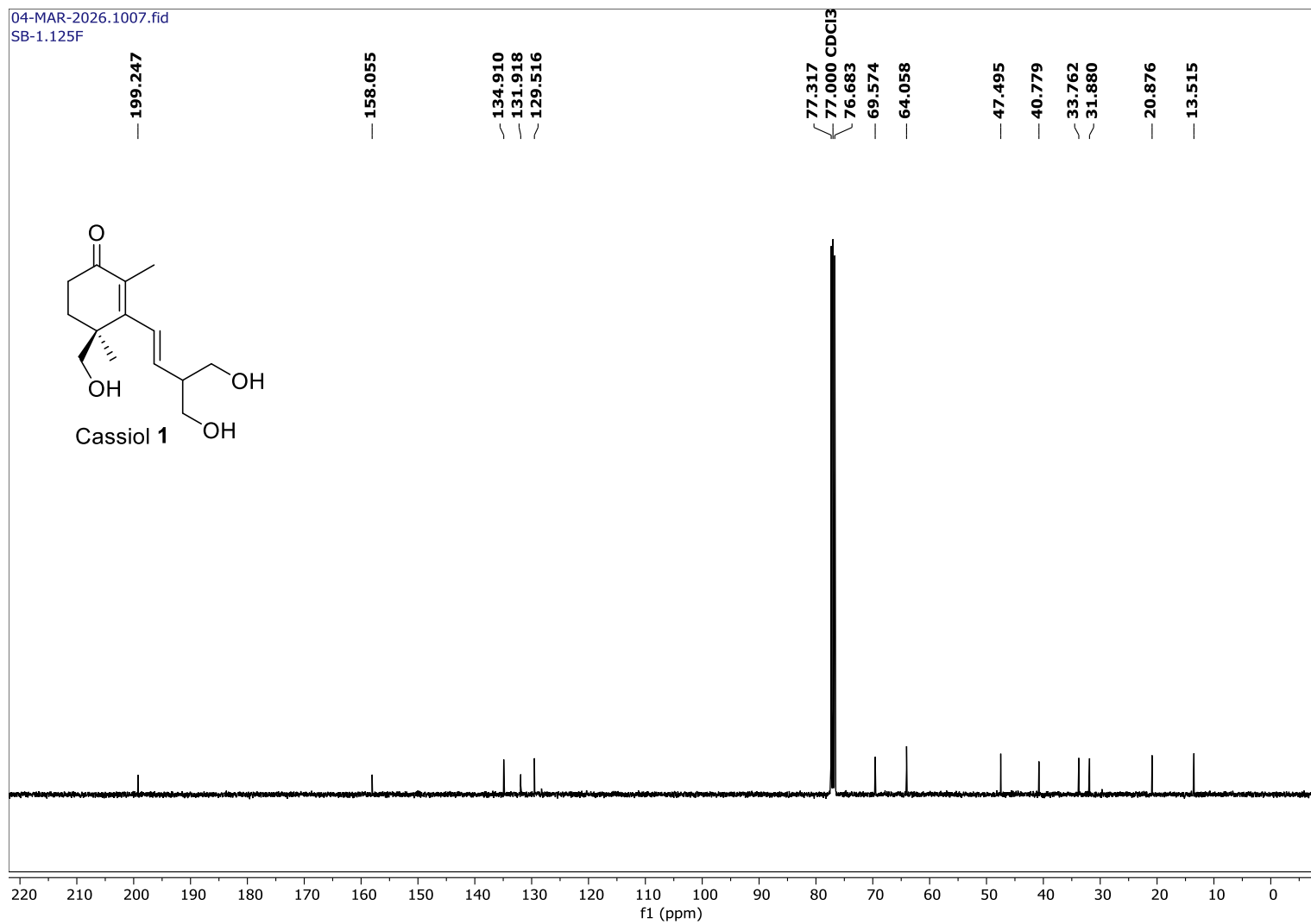


¹³C NMR spectrum (100 MHz, CDCl₃) of **22**

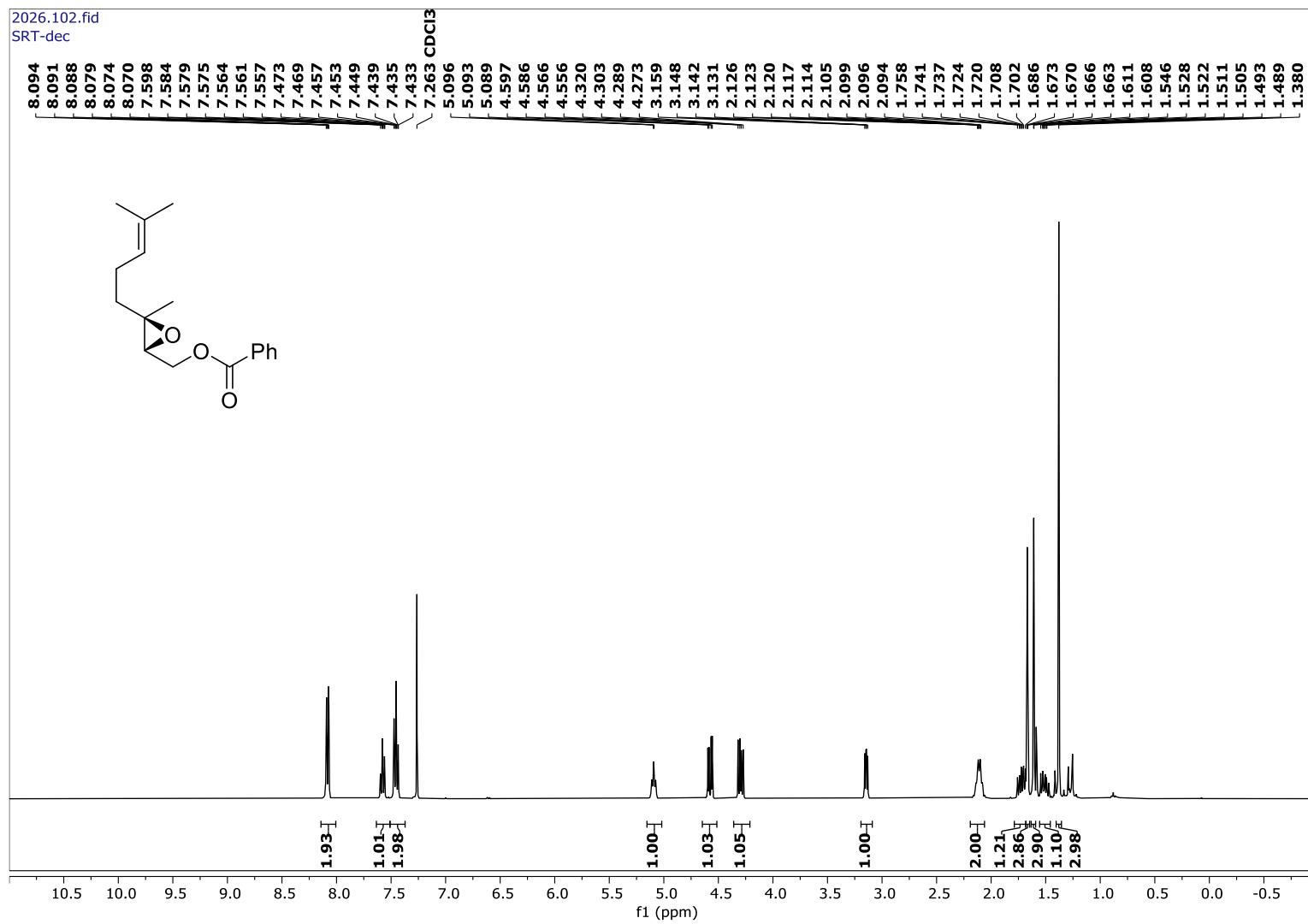


¹H NMR spectrum (400 MHz, CDCl₃) of **1**

04-MAR-2026.1007.fid
SB-1.125F



¹³C NMR spectrum (100 MHz, CDCl₃) of **1**

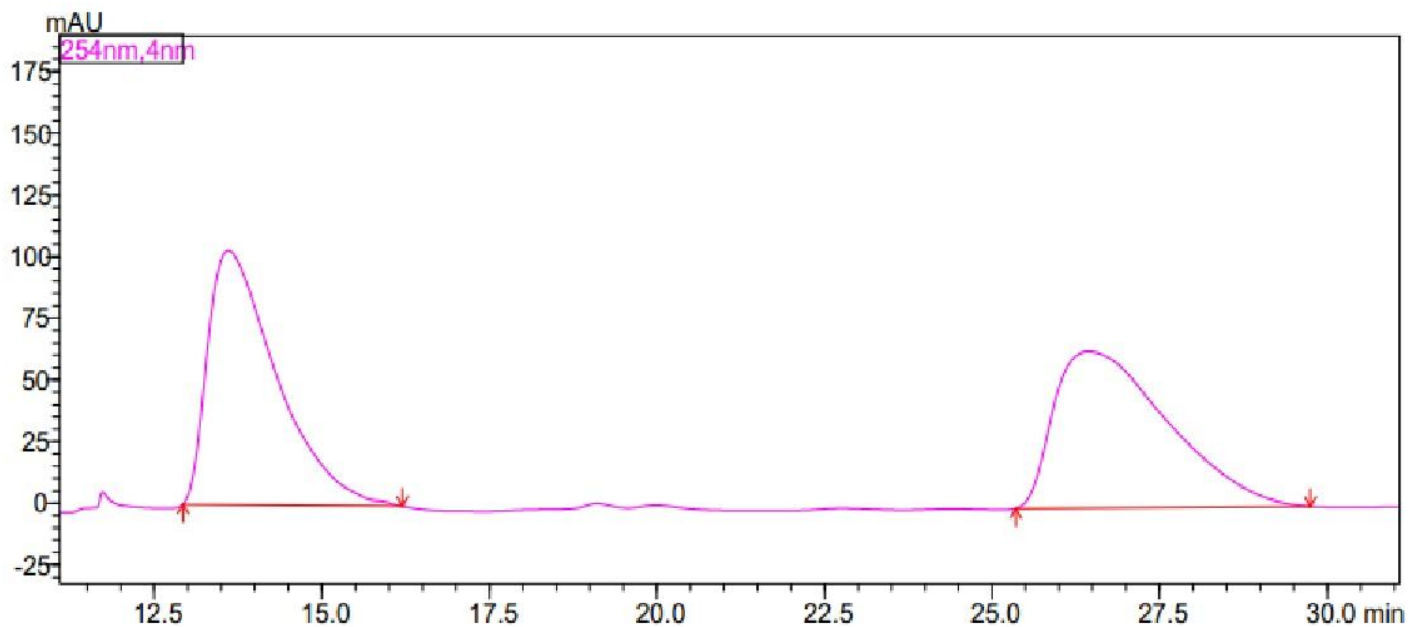


¹H NMR spectrum (400 MHz, CDCl₃) of **S3**

HPLC analysis of racemic S3

Column	Chiralpak OD-H	
Flow rate	0.7 mL/min	
Injection volume	20 μ L	
Detection wavelength	254 nm	
Mobile Phase	A: Hexane	B: <i>i</i> PrOH
Gradient	A:B = 99:01	

Peak#	Ret. Time	Area	Height	Area%	Height%
1	13.604	7376612	102964	49.641	61.877
2	26.437	7483238	63436	50.359	38.123
Total		14859850	166400	100.000	100.000



HPLC analysis of S3

Peak#	Ret. Time	Area	Height	Area%	Height%
1	13.348	36273319	547879	92.845	94.895
2	25.767	2795519	29476	7.155	5.105
Total		39068838	577355	100.000	100.000

