

Supporting information

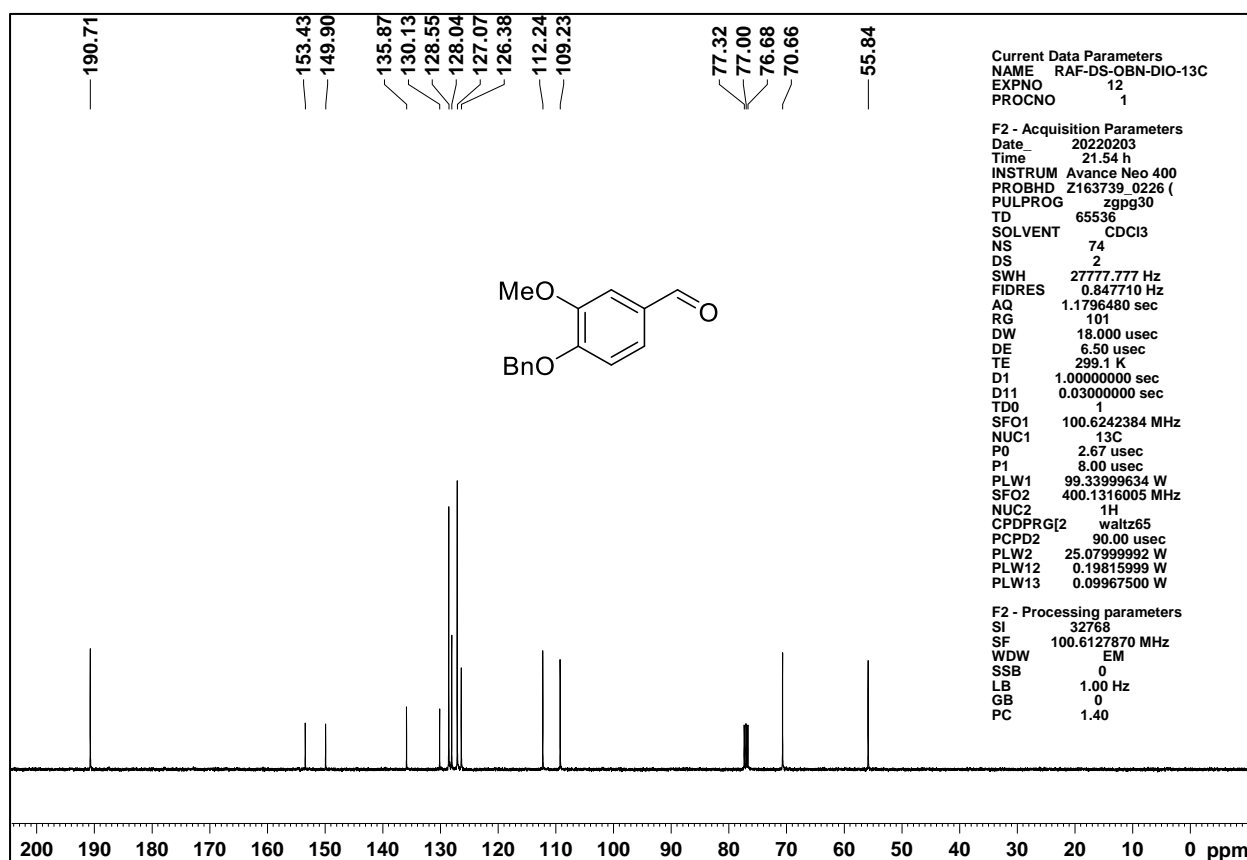
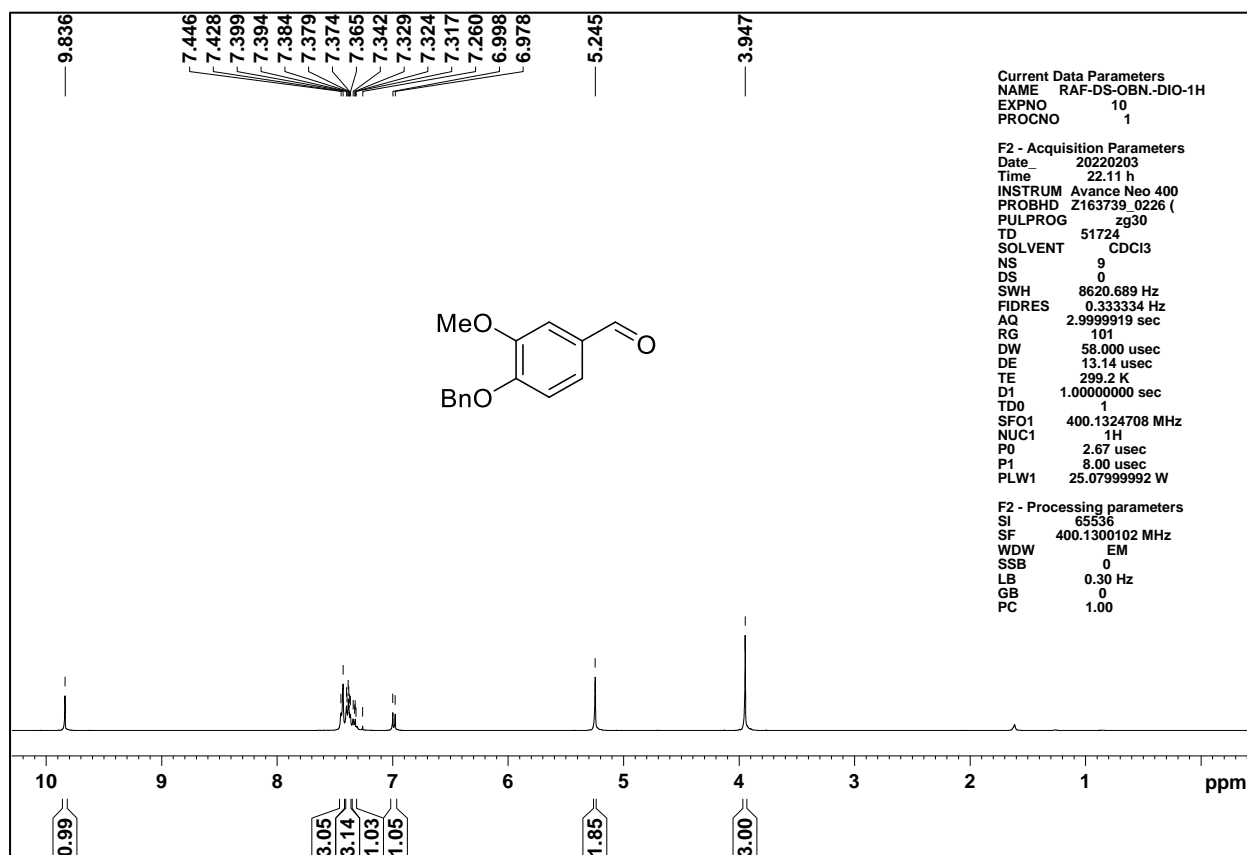
Asymmetric Total Synthesis of Diosniponols A and B

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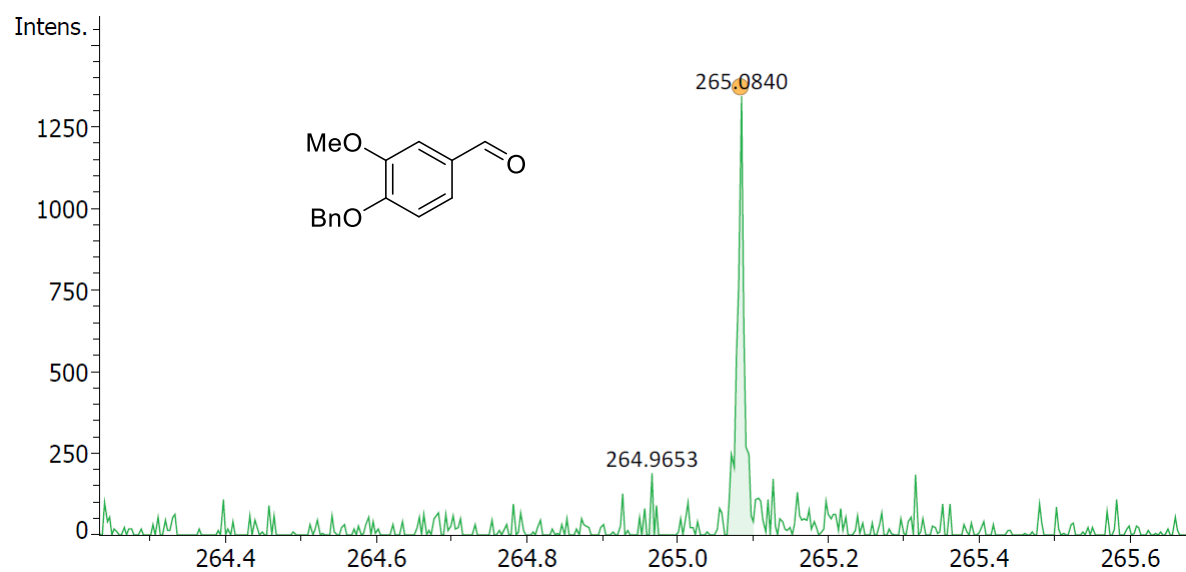
¹H and ¹³C NMR spectra and HRMS spectra of all compounds

S2–S24

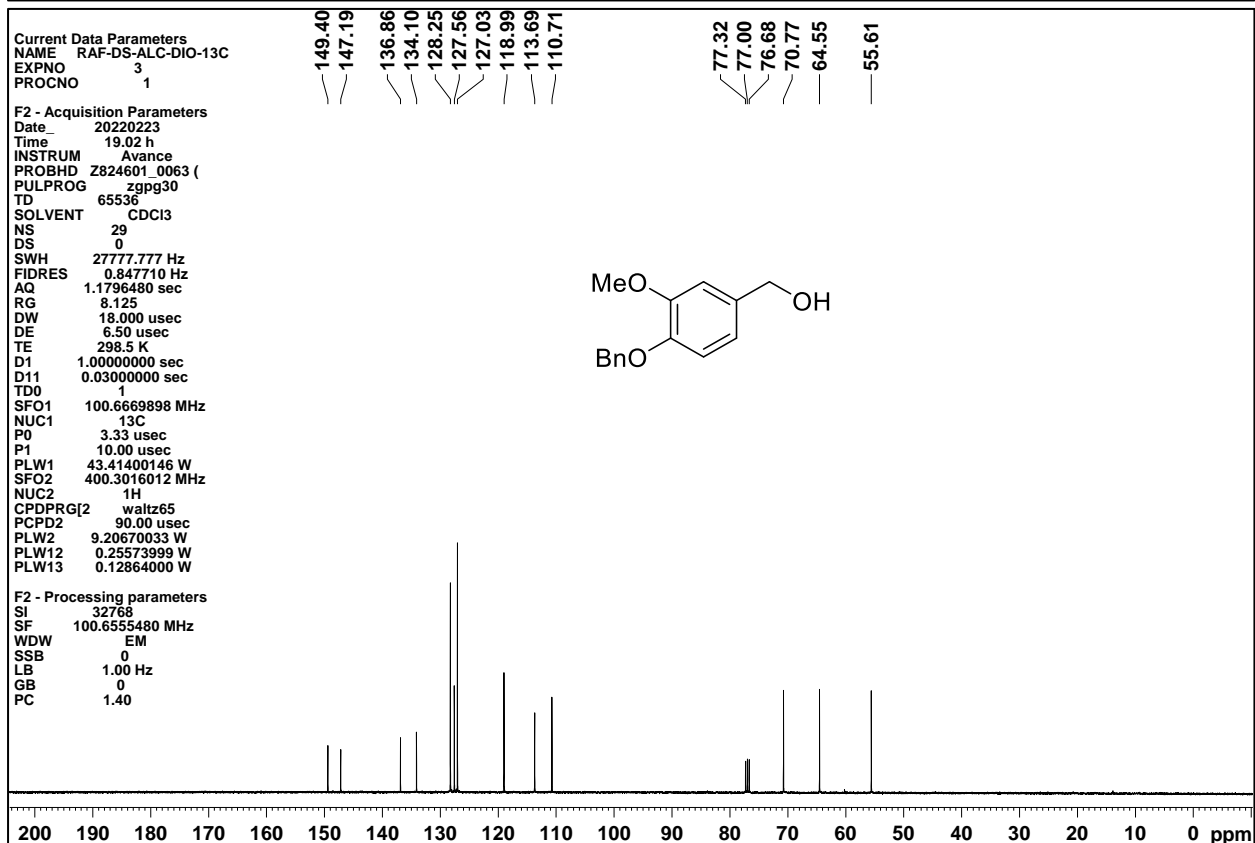
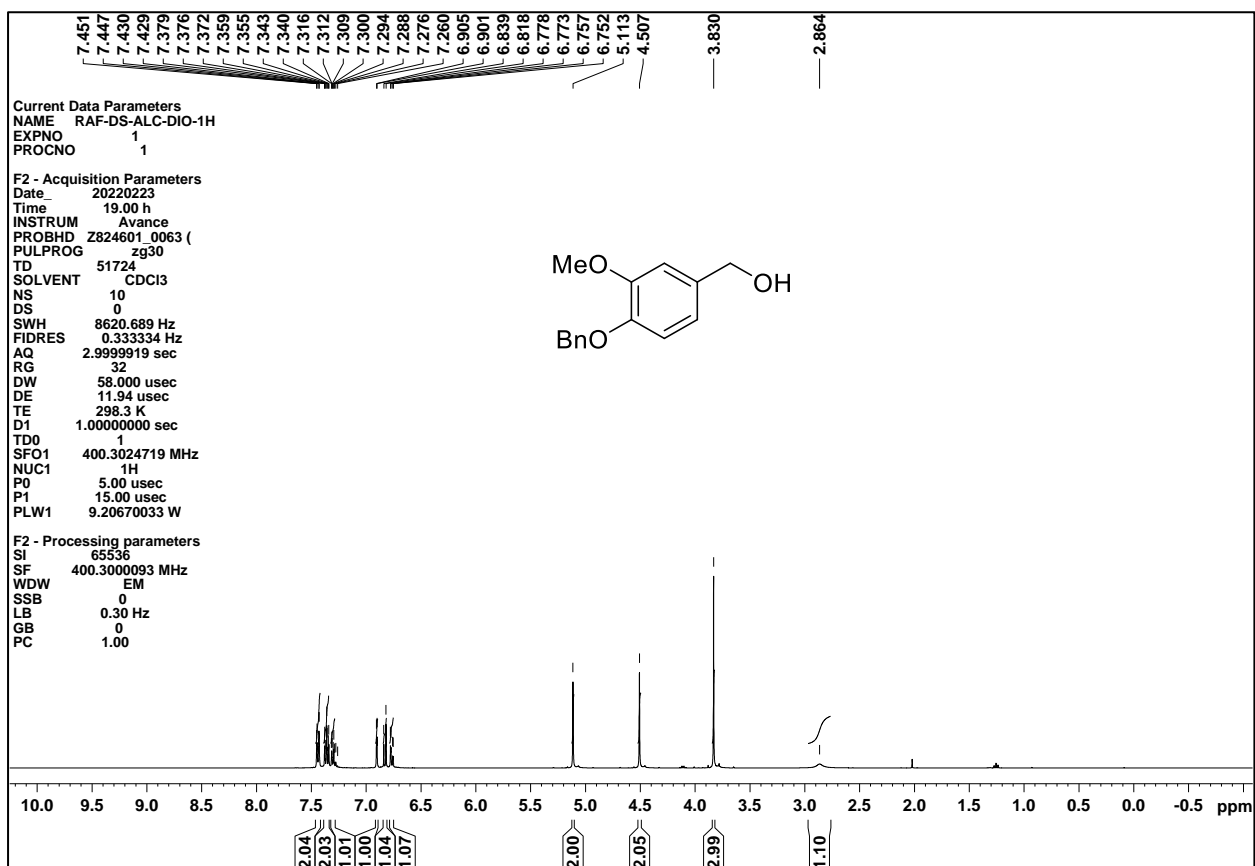
¹H NMR (400 MHz, CDCl₃) and ¹³C{¹H} NMR (100 MHz, CDCl₃) of compound 6



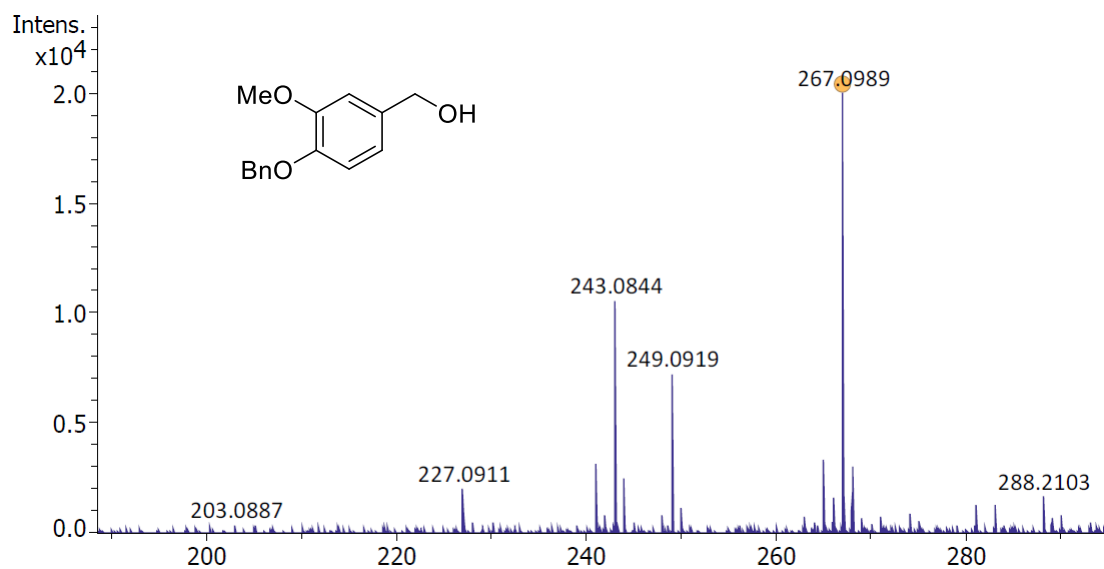
6: HRMS (ESI-TOF) m/z : $[M + Na]^+$ calcd for $C_{15}H_{14}O_3Na$ 265.0835, found 265.0840.



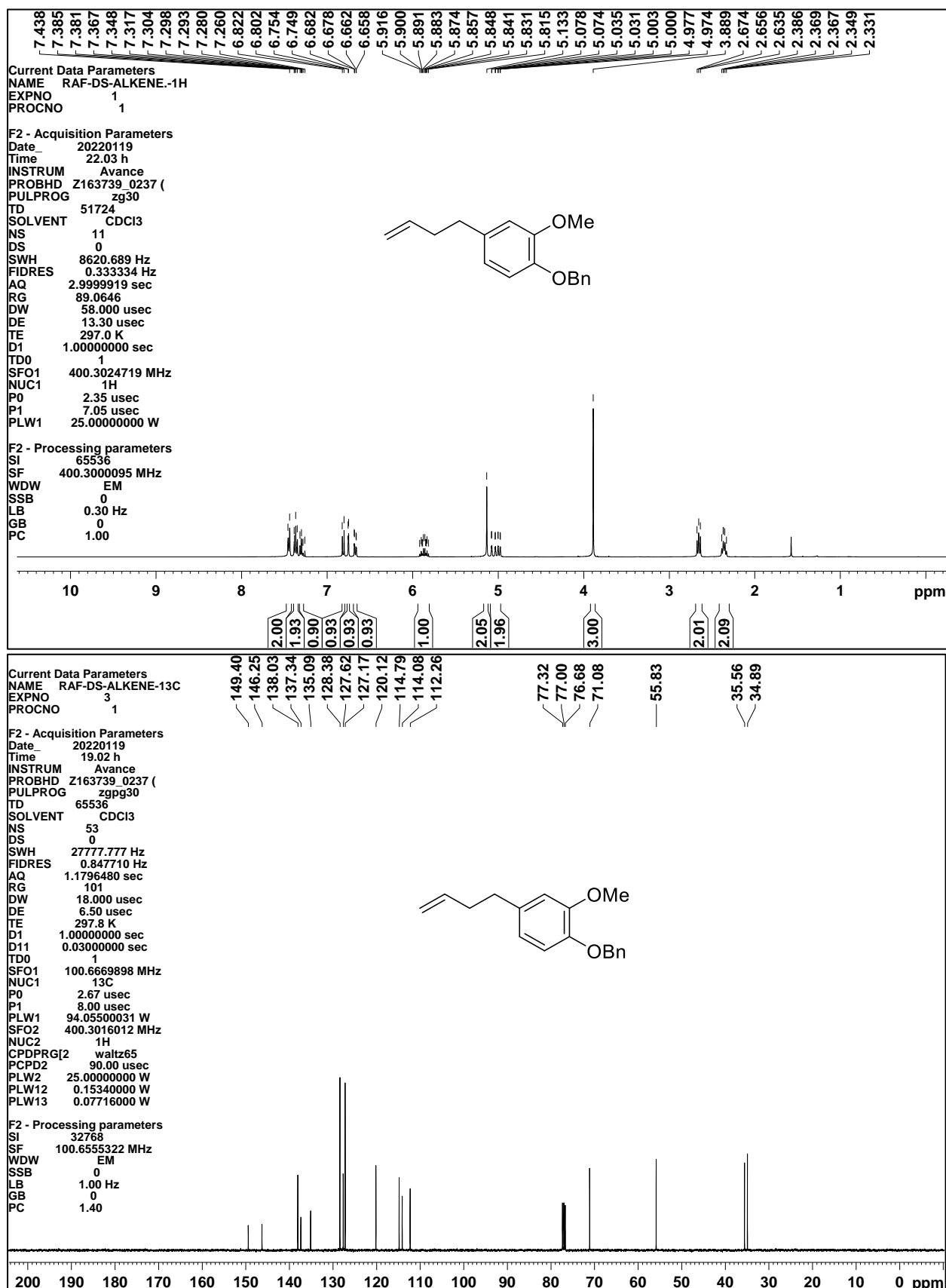
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound 7



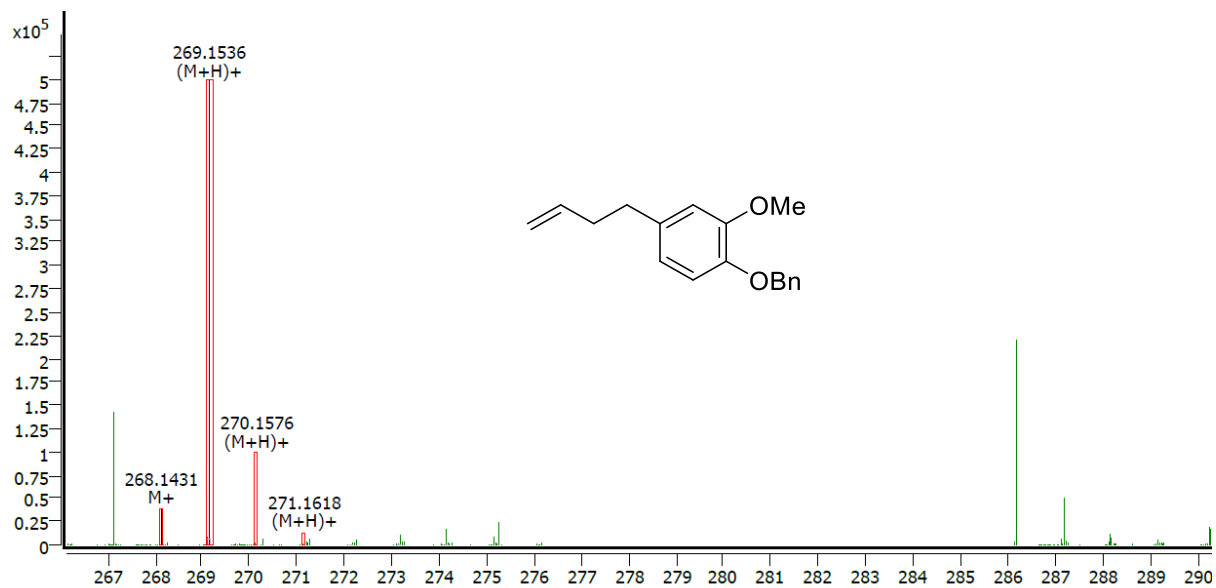
7: HRMS (ESI-TOF) m/z : $[M + Na]^+$ calcd for $C_{15}H_{16}O_3Na$ 267.0992, found 267.0989.



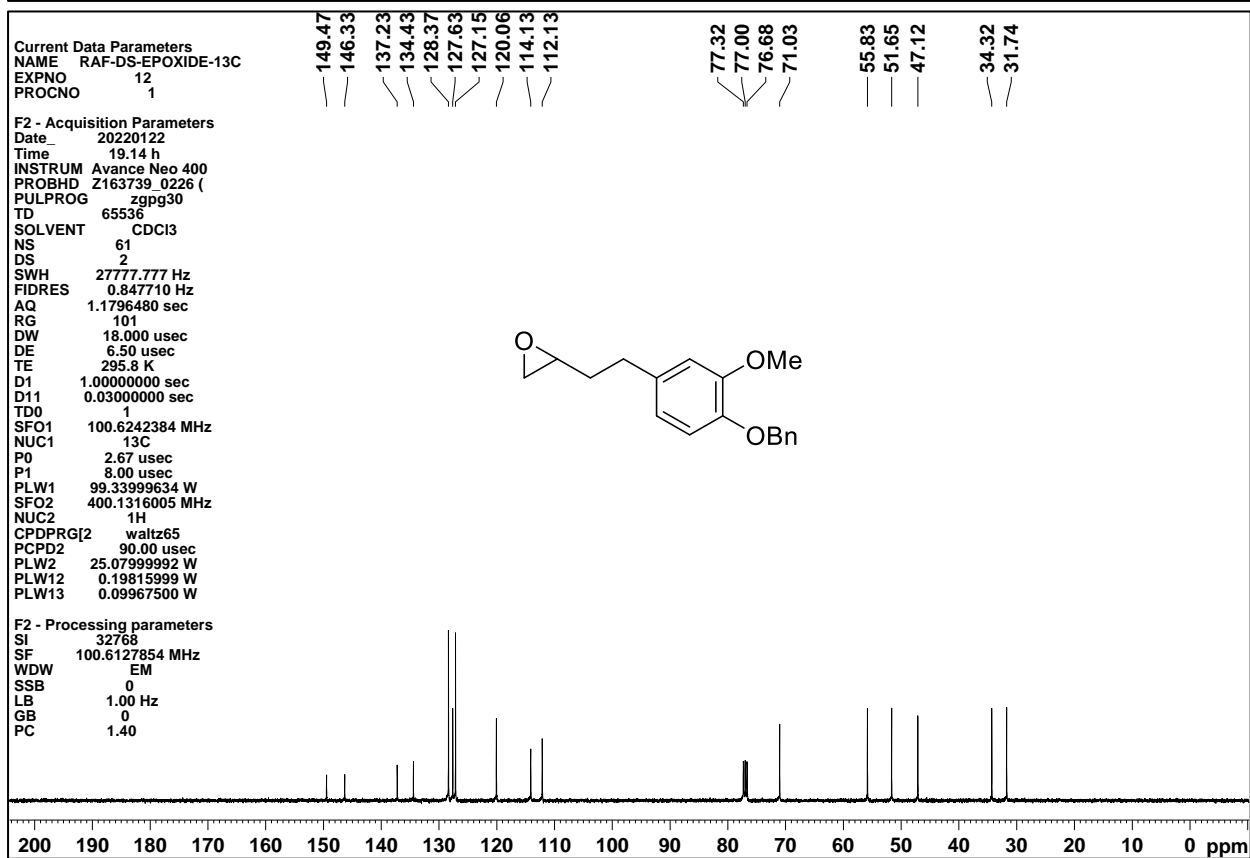
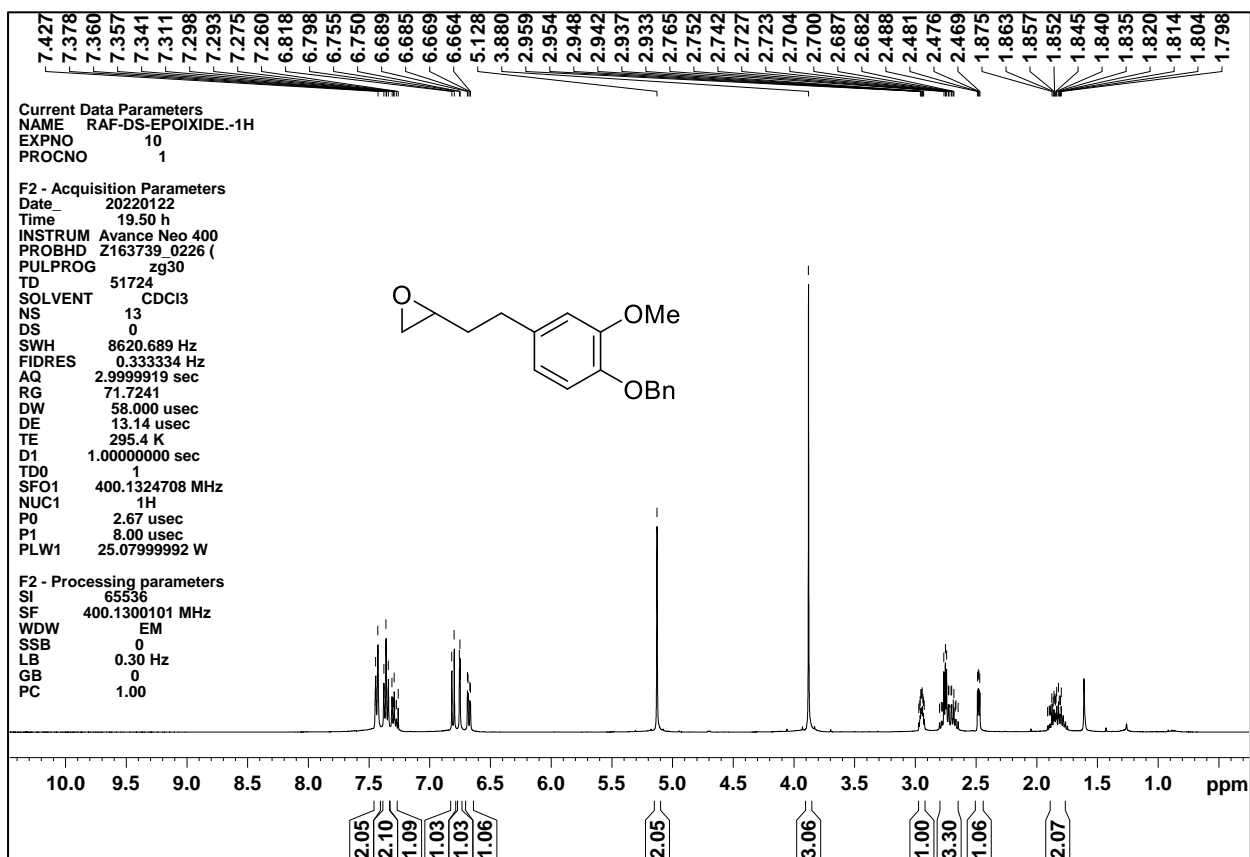
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound **8**



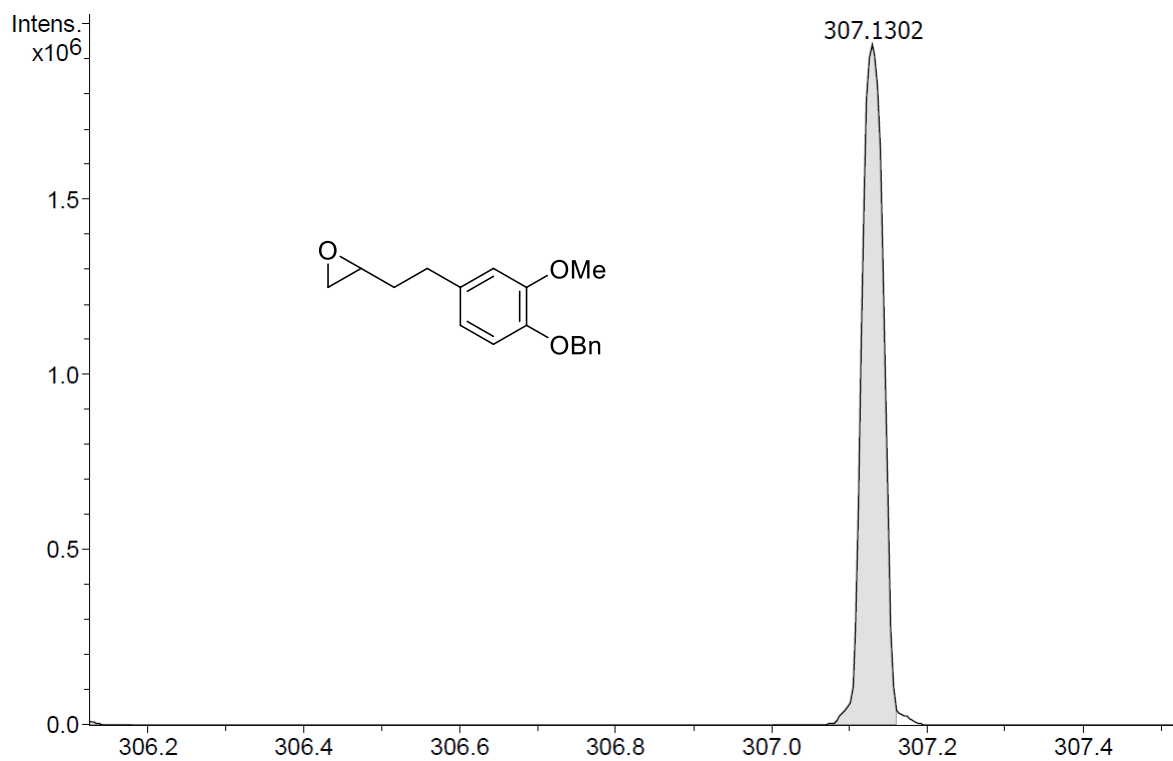
8: HRMS (ESI-TOF) m/z : $[M + H]^+$ calcd for $C_{18}H_{21}O_2$ 269.1536, found 269.1536.



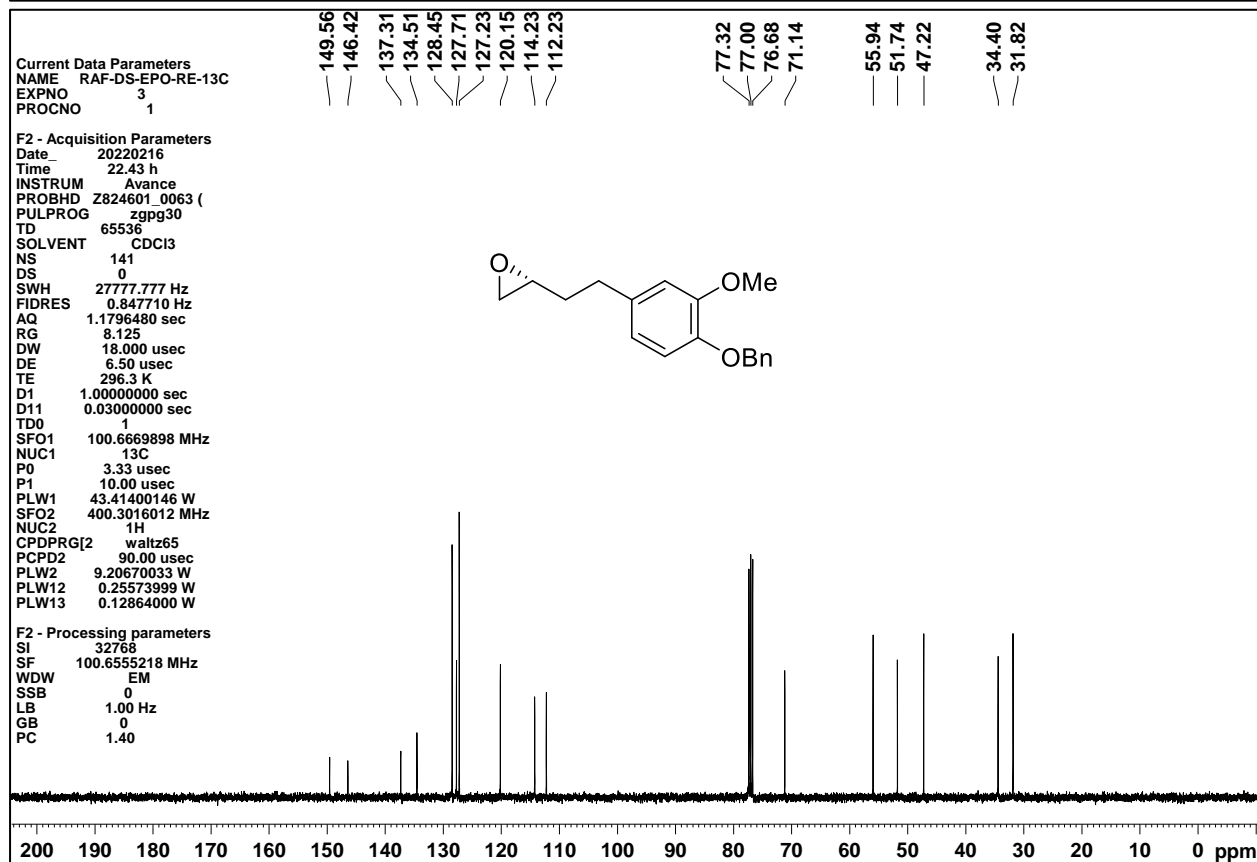
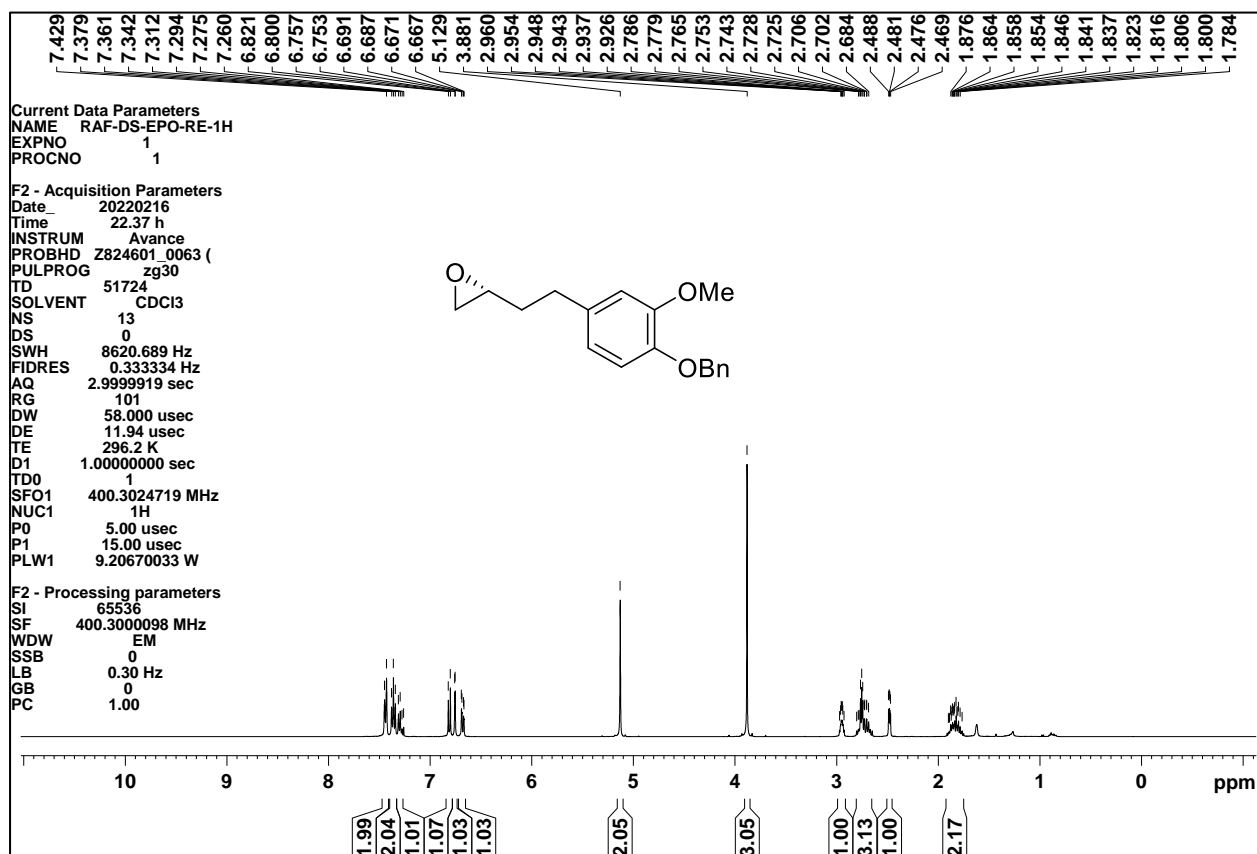
¹H NMR (400 MHz, CDCl₃) and ¹³C{¹H} NMR (100 MHz, CDCl₃) of compound (±)-4



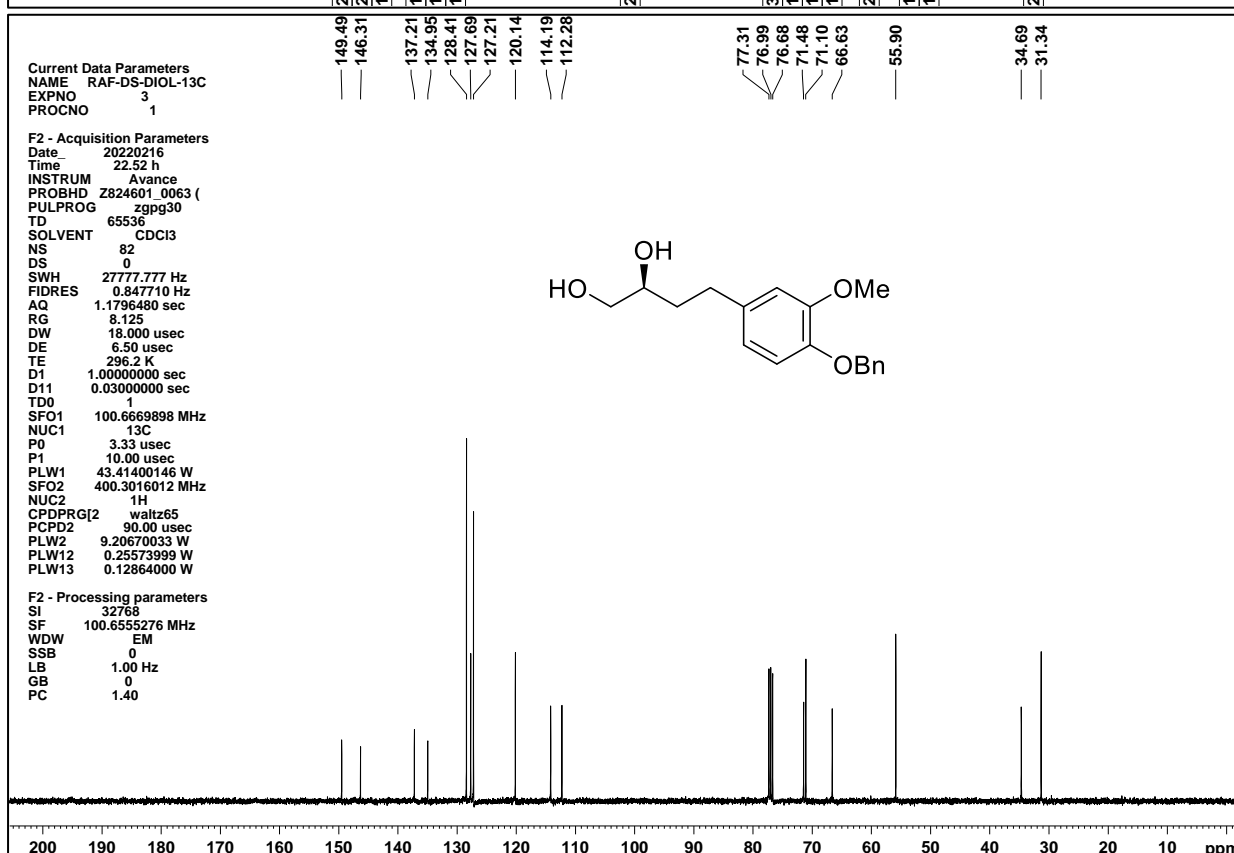
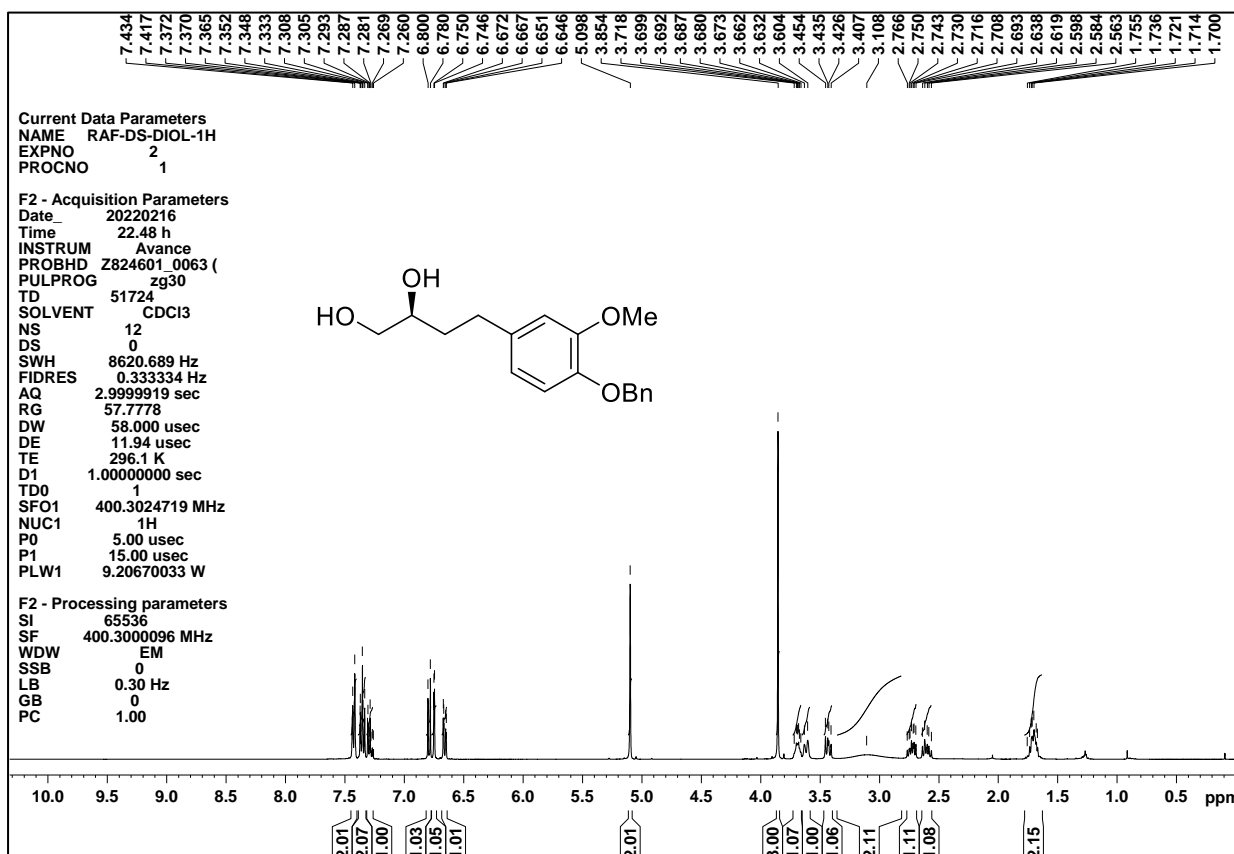
(±)-4: HRMS (ESI-TOF) m/z : $[M + Na]^+$ calcd for $C_{18}H_{20}O_3Na$ 307.1305, found 307.1302.



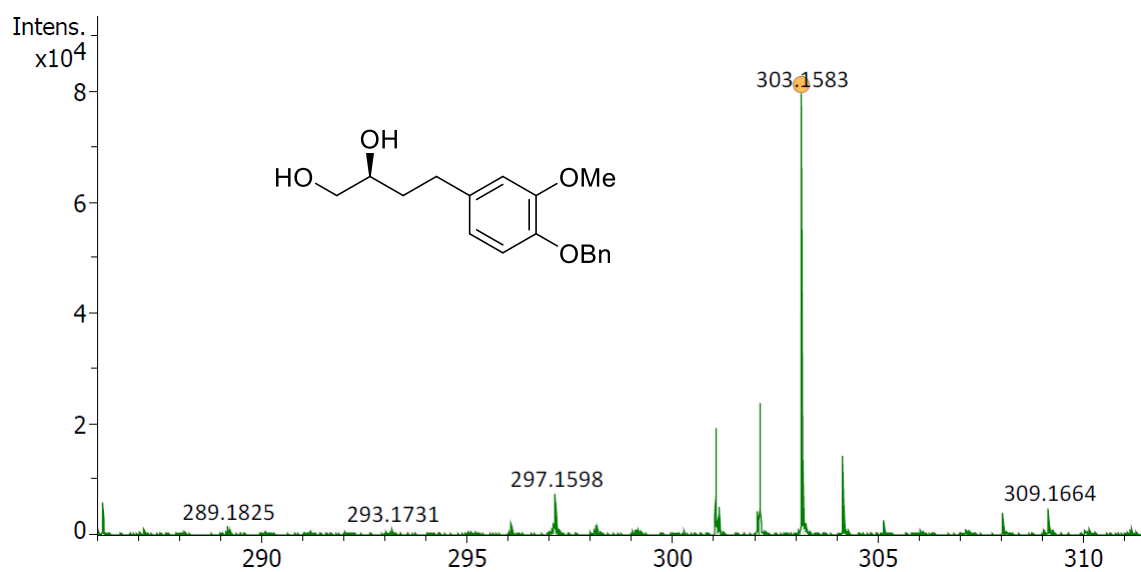
¹H NMR (400 MHz, CDCl₃) and ¹³C{¹H} NMR (100 MHz, CDCl₃) of compound 4



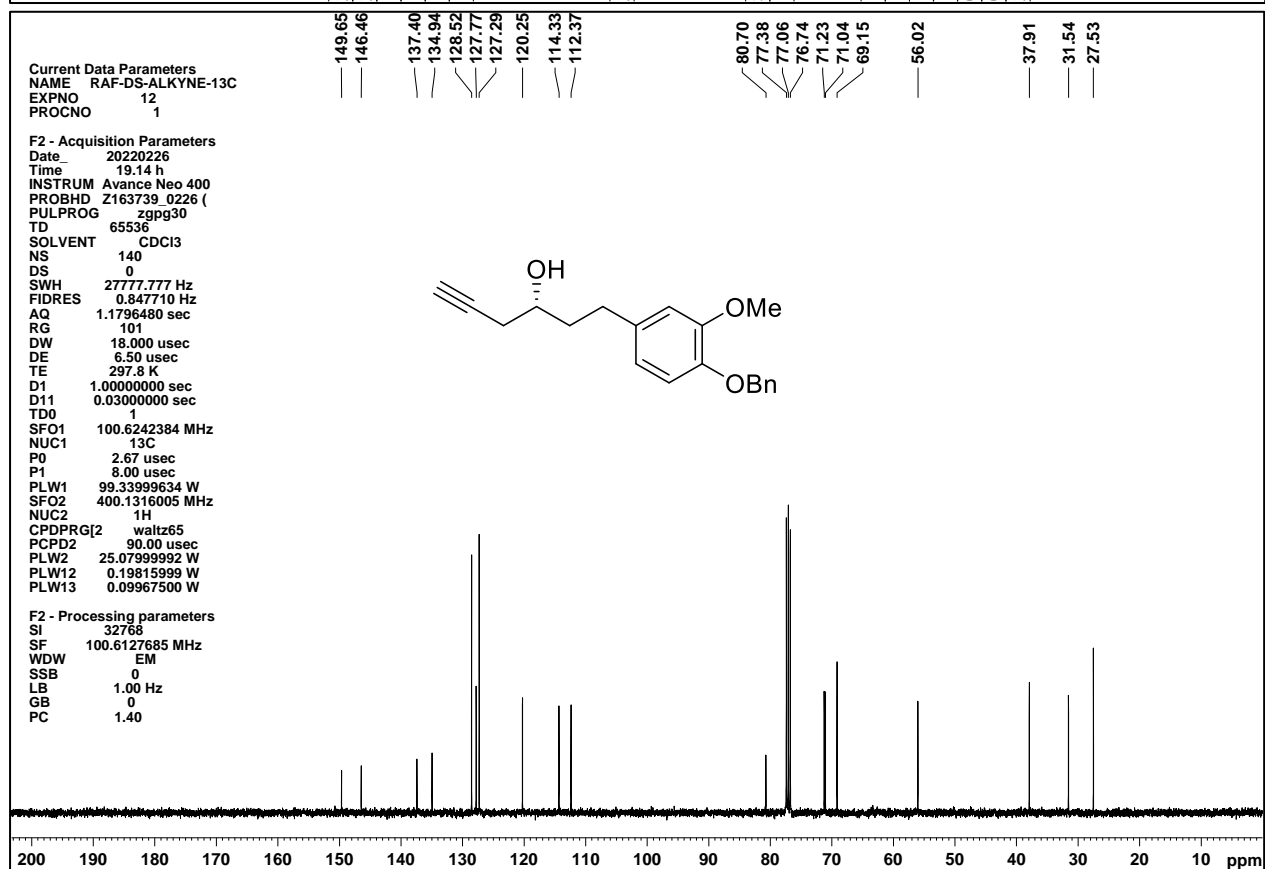
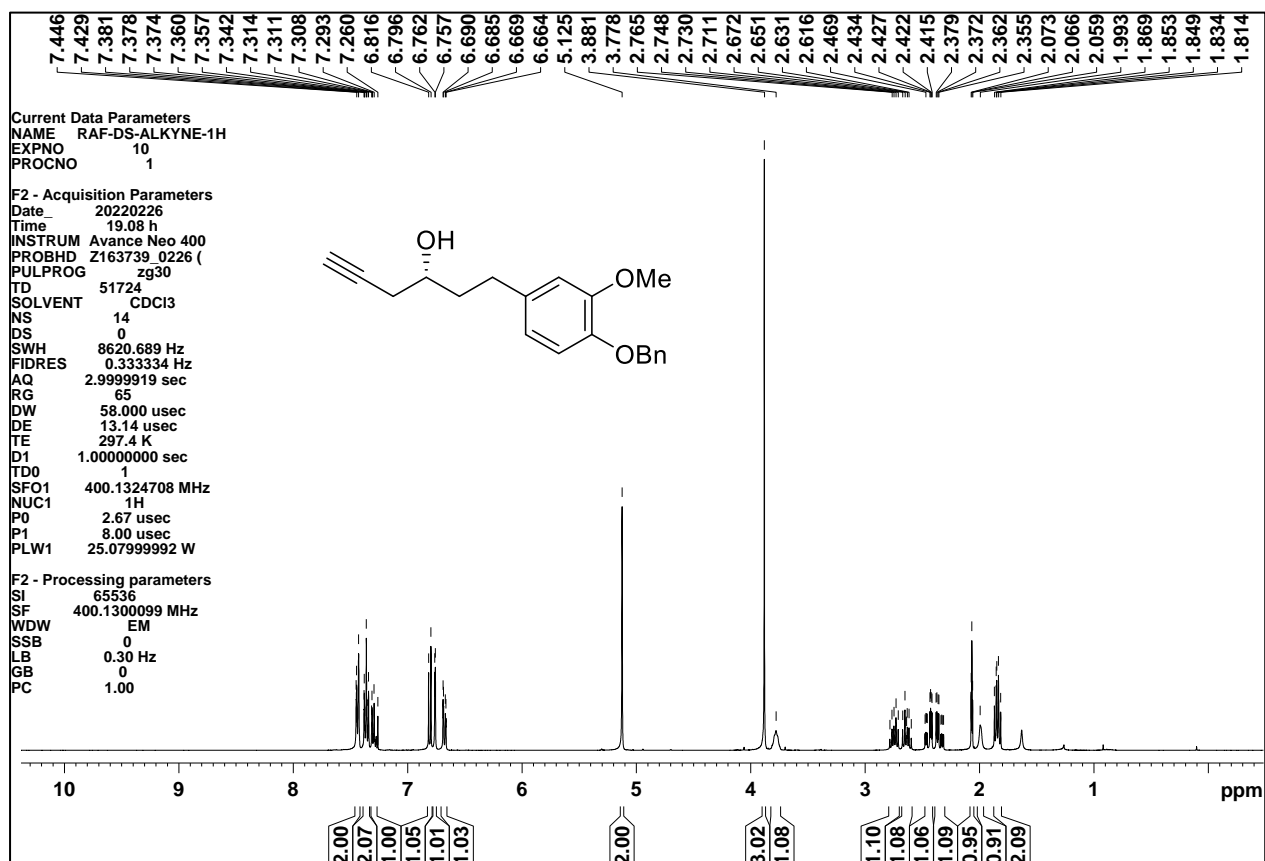
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound 9



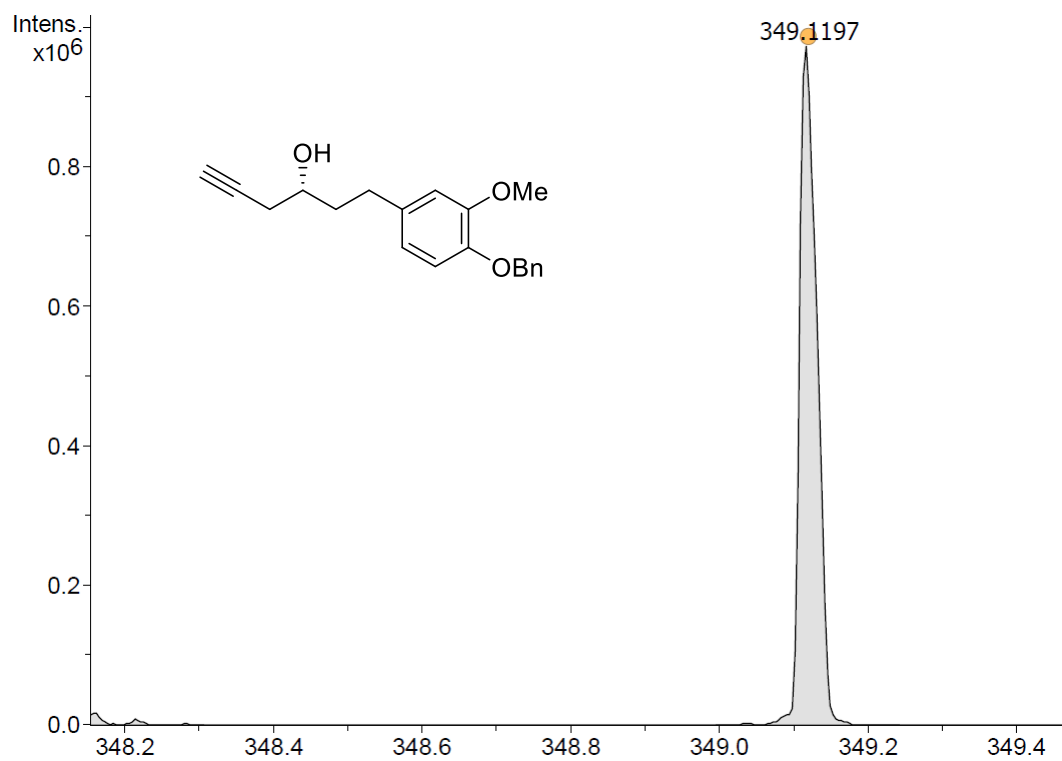
9: HRMS (ESI-TOF) m/z : $[M + H]^+$ calcd for $C_{18}H_{23}O_4$ 303.1591, found 303.1583.



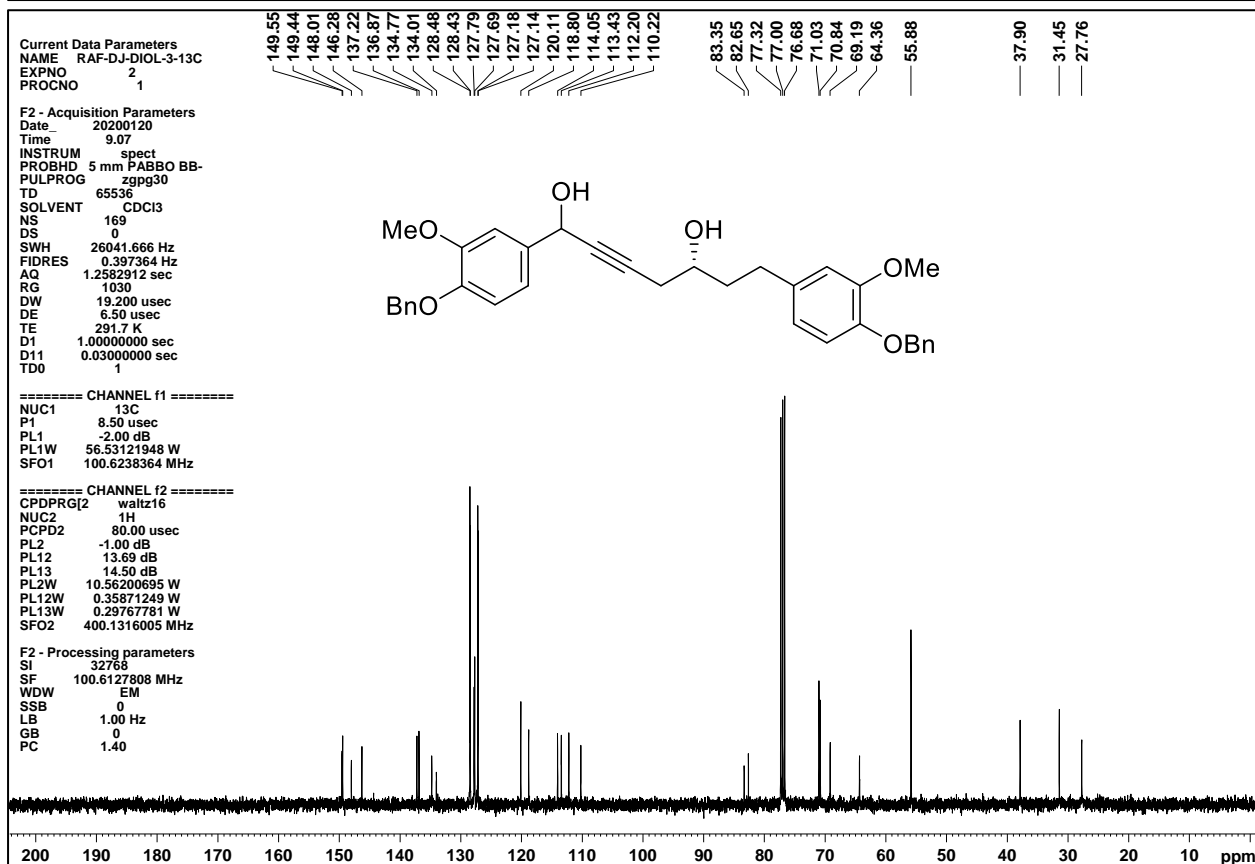
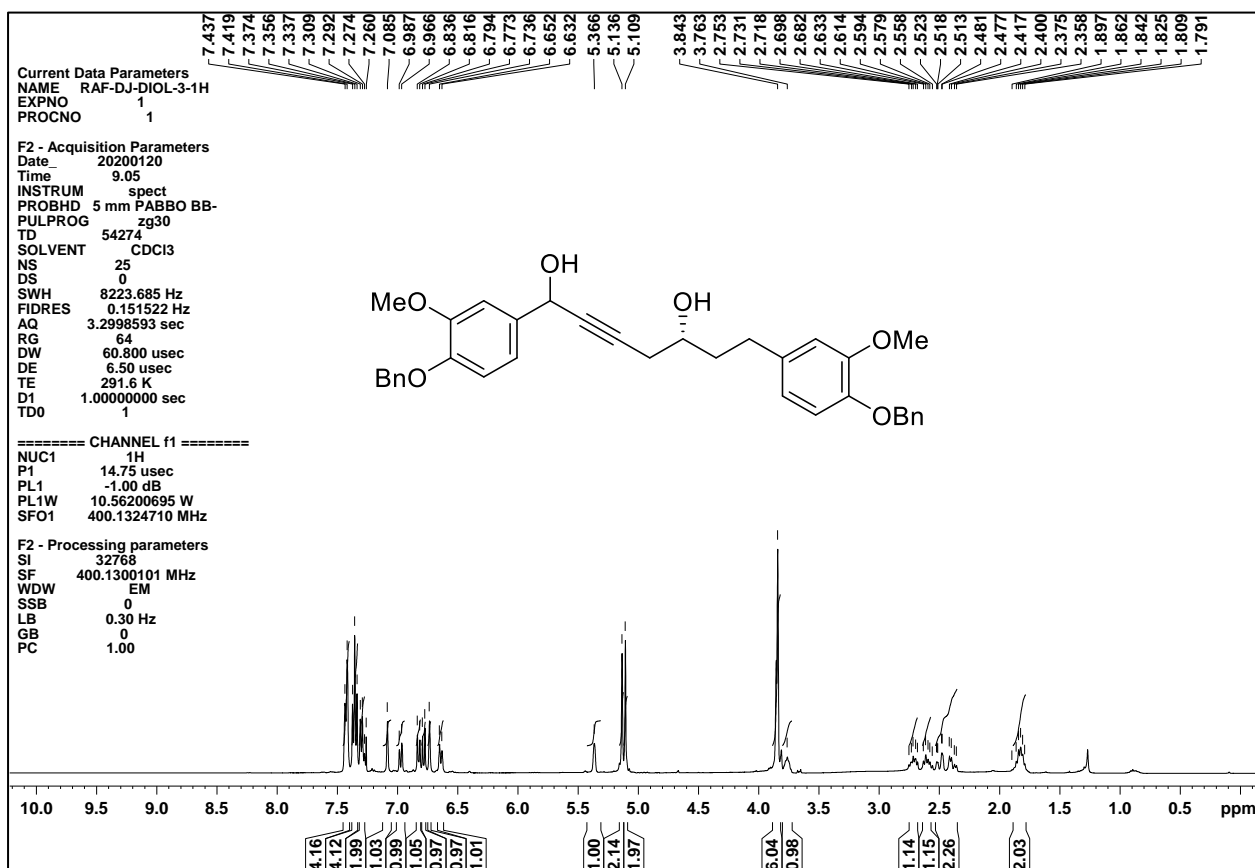
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound **10**



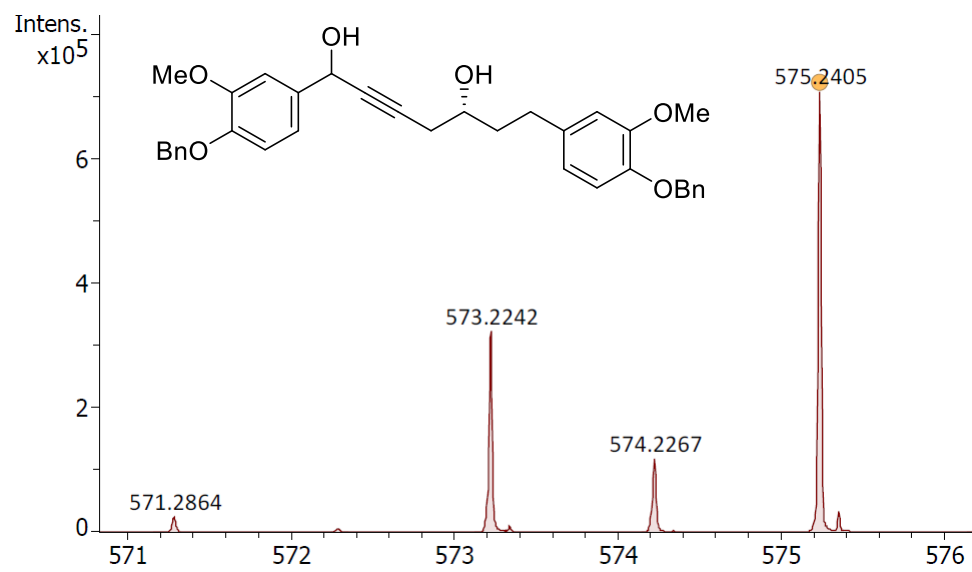
10: HRMS (ESI-TOF) m/z : $[M+K]^+$ calcd for $C_{20}H_{22}O_3K$ 349.1201, found 349.1197.



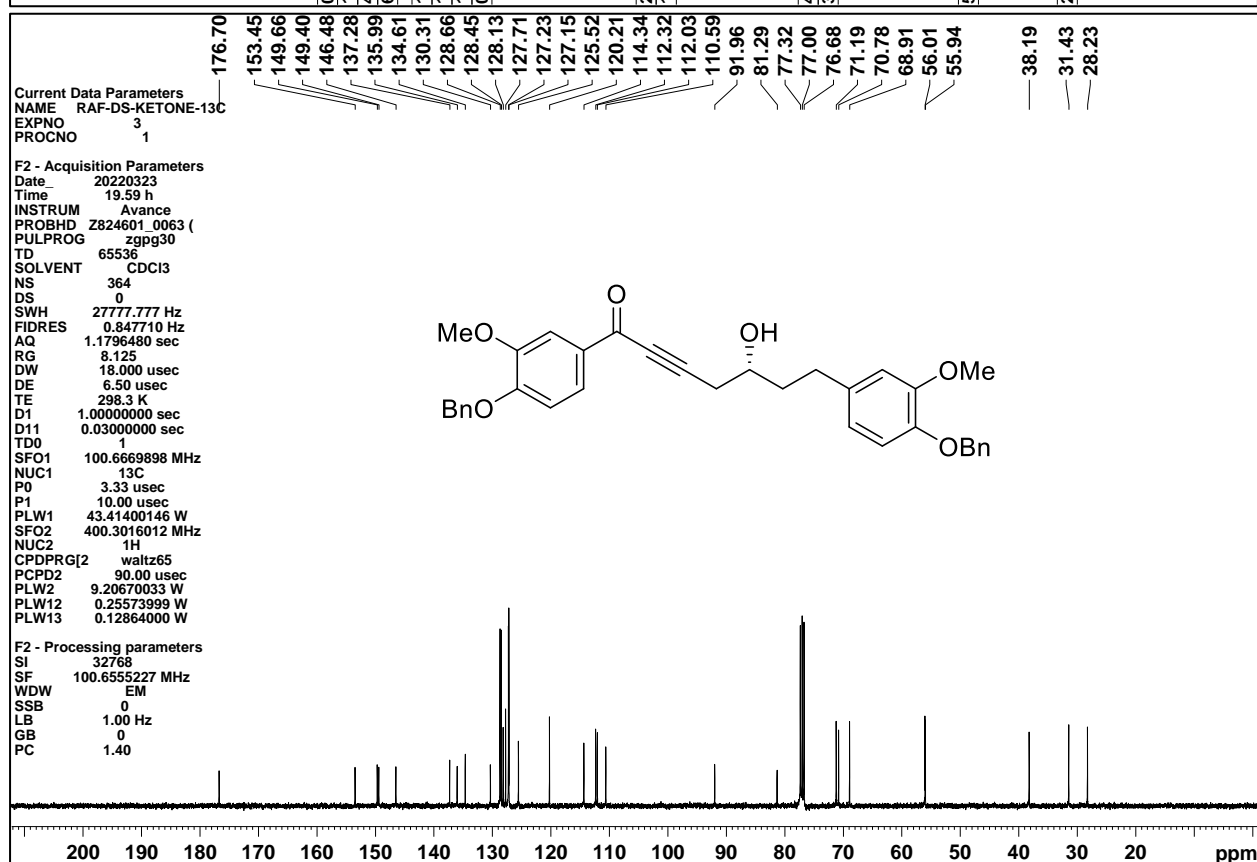
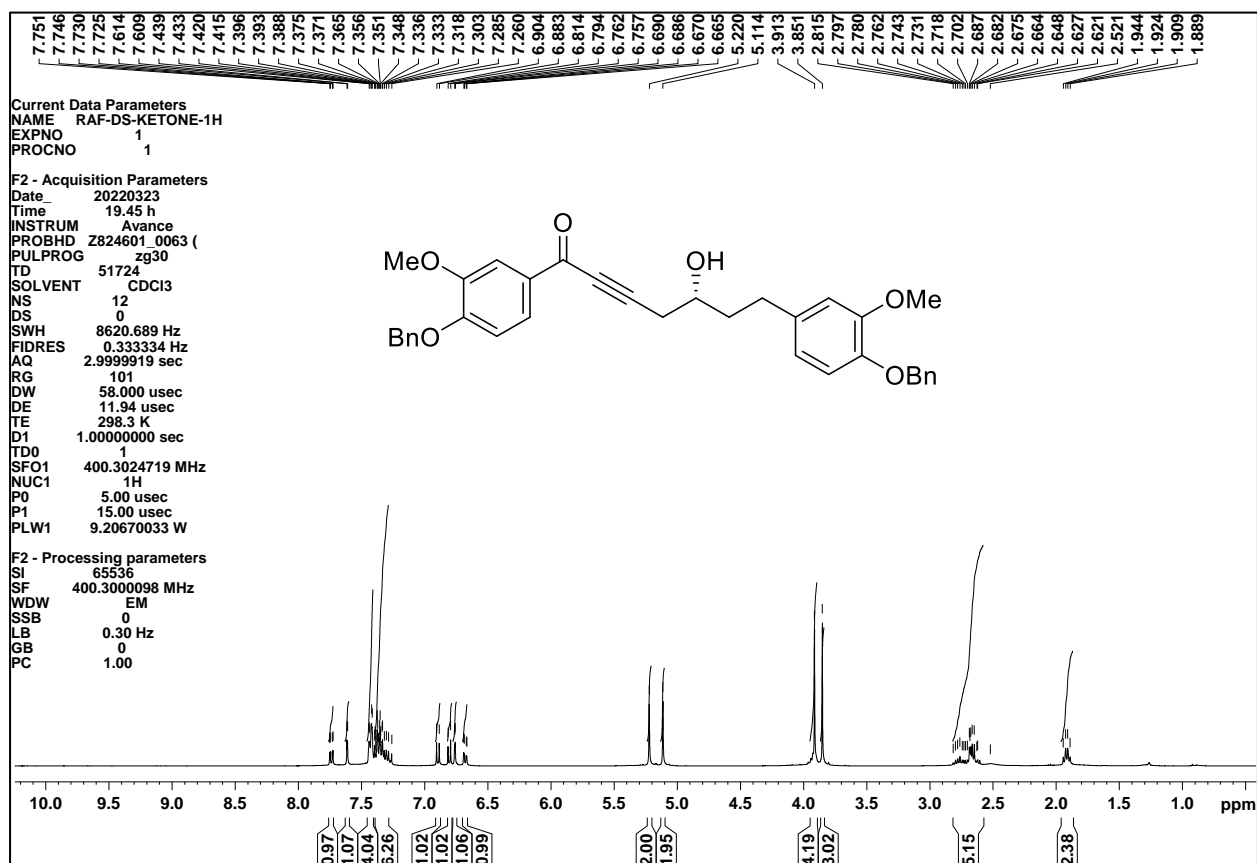
¹H NMR (400 MHz, CDCl₃) and ¹³C{¹H} NMR (100 MHz, CDCl₃) of compound **11**



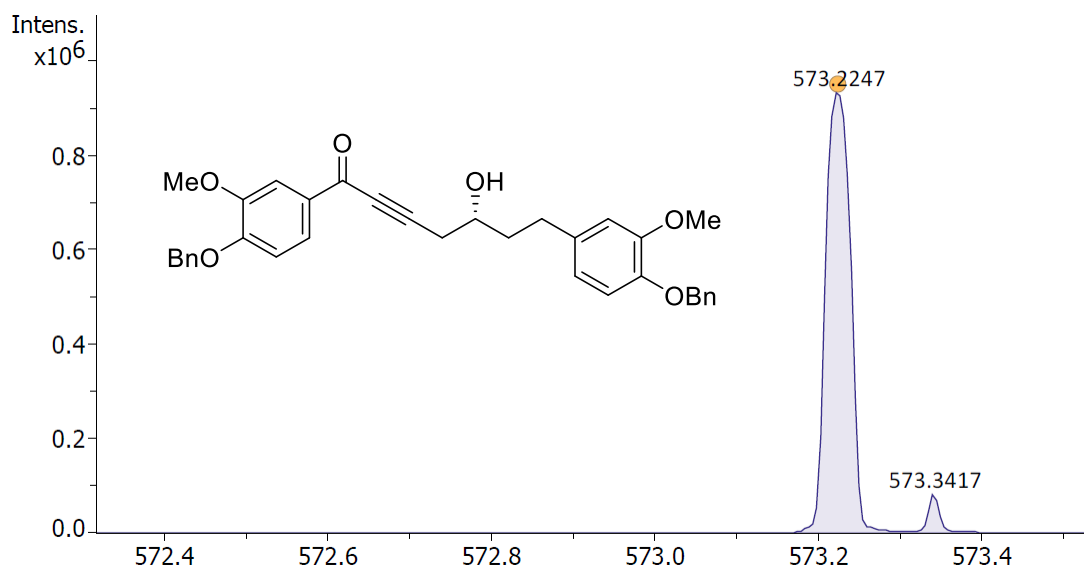
11: HRMS (ESI-TOF) m/z : $[M + Na]^+$ calcd for $C_{35}H_{36}O_6Na$ 575.2404, found 575.2405.



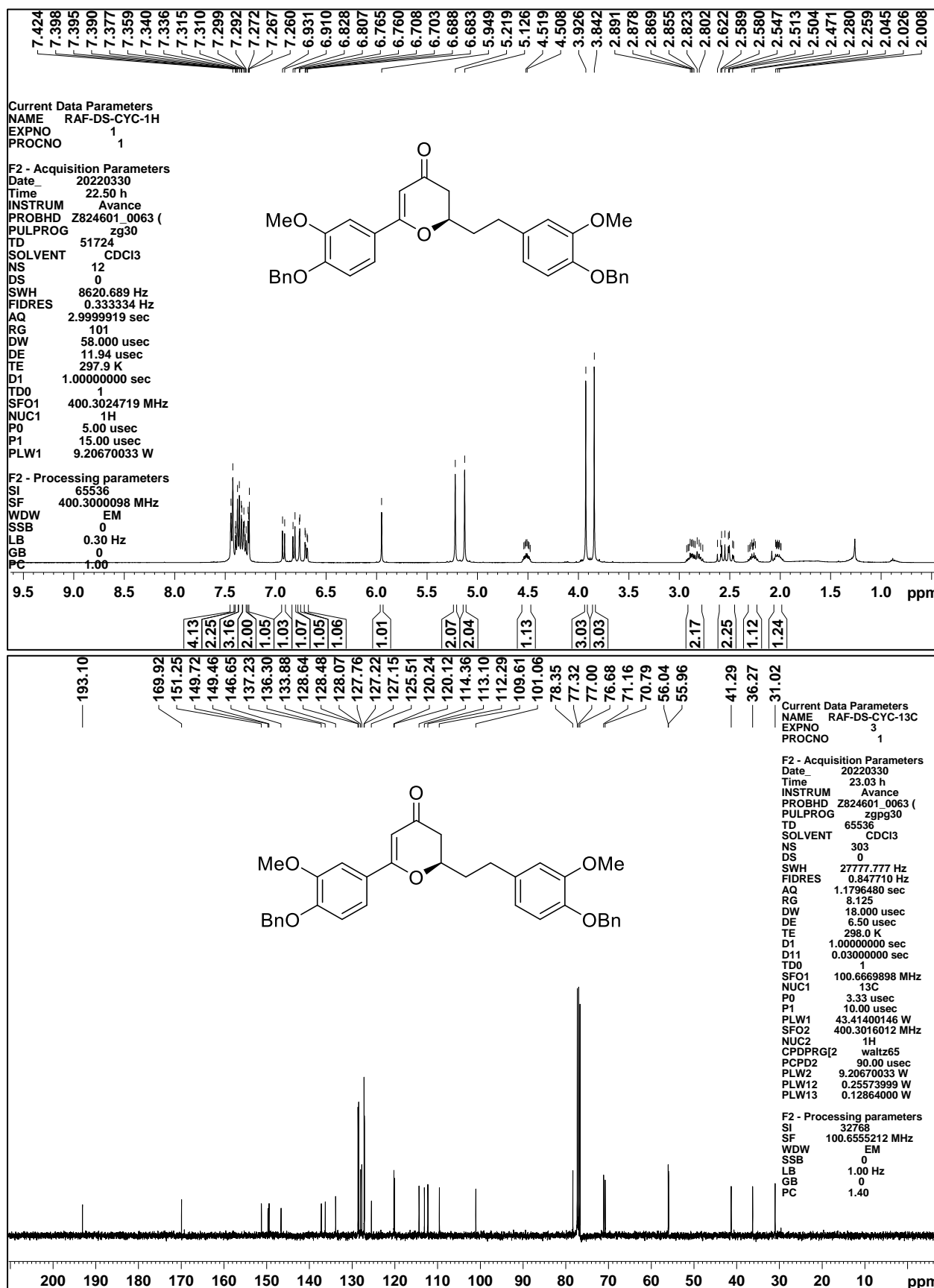
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound **3**



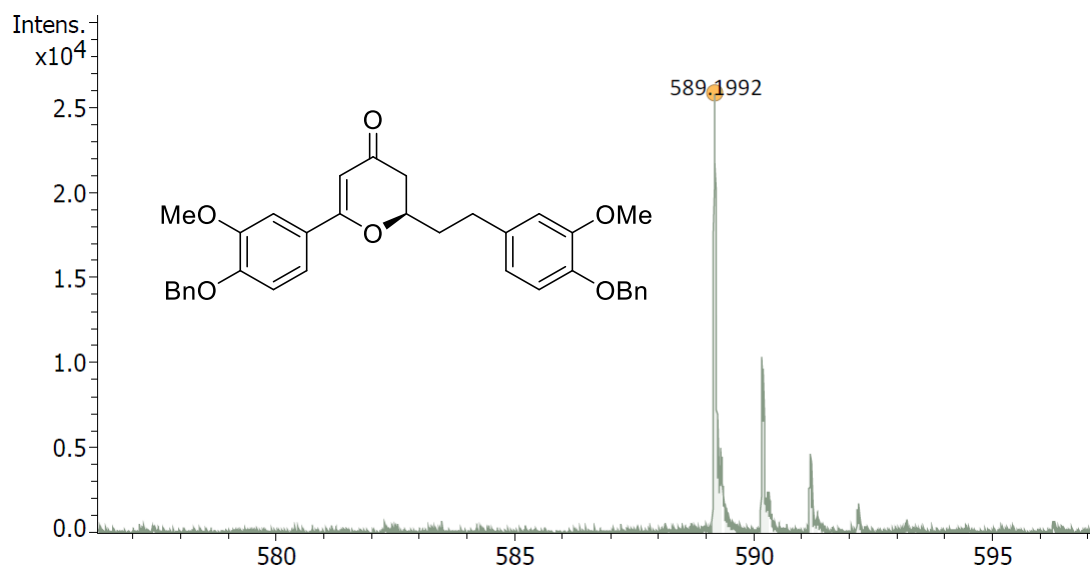
3: HRMS (ESI-TOF) m/z : $[M + Na]^+$ calcd for $C_{35}H_{34}O_6Na$ 573.2248, found 573.2247.



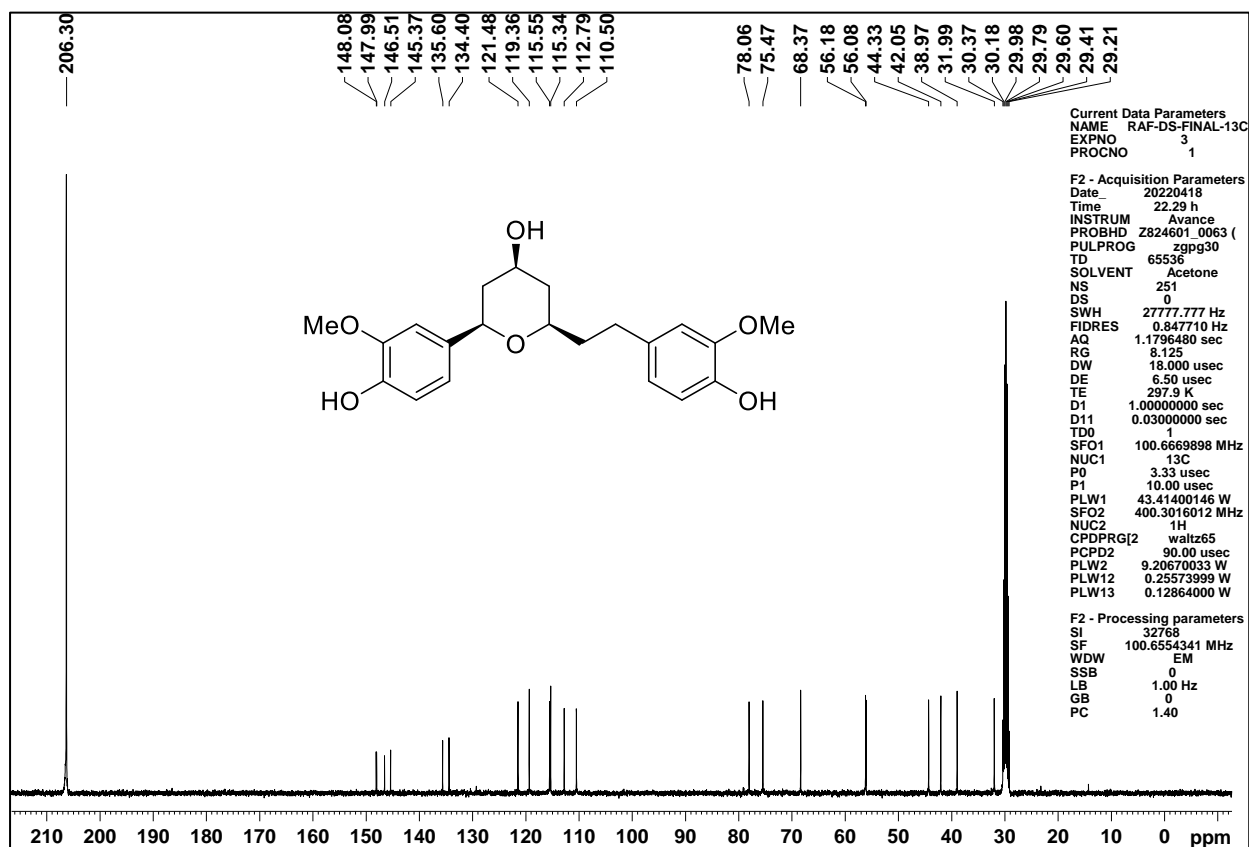
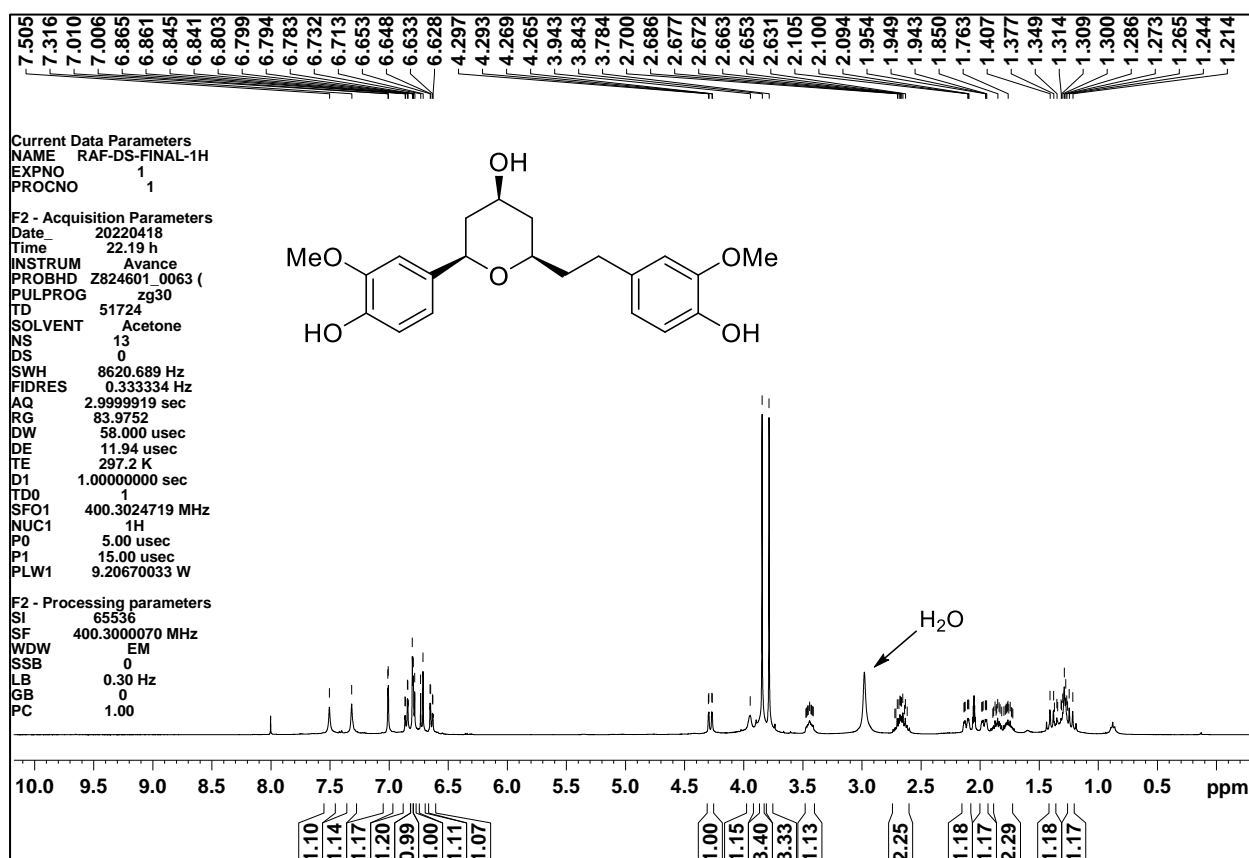
^1H NMR (400 MHz, CDCl_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CDCl_3) of compound 2



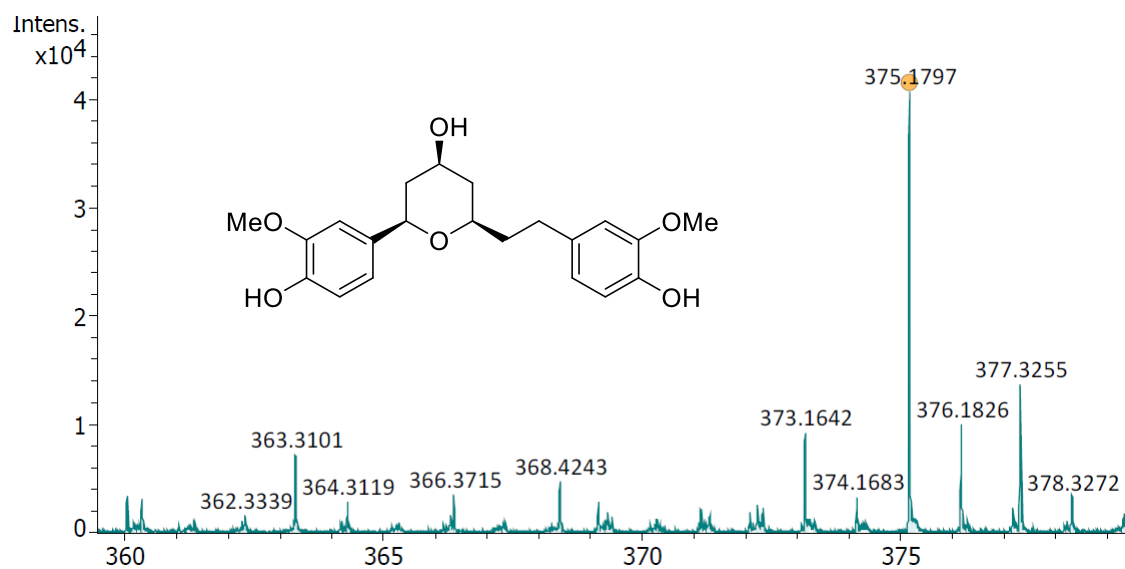
2: HRMS (ESI-TOF) m/z : $[M + K]^+$ calcd for $C_{35}H_{34}O_6K$ 589.1987, found 589.1992.



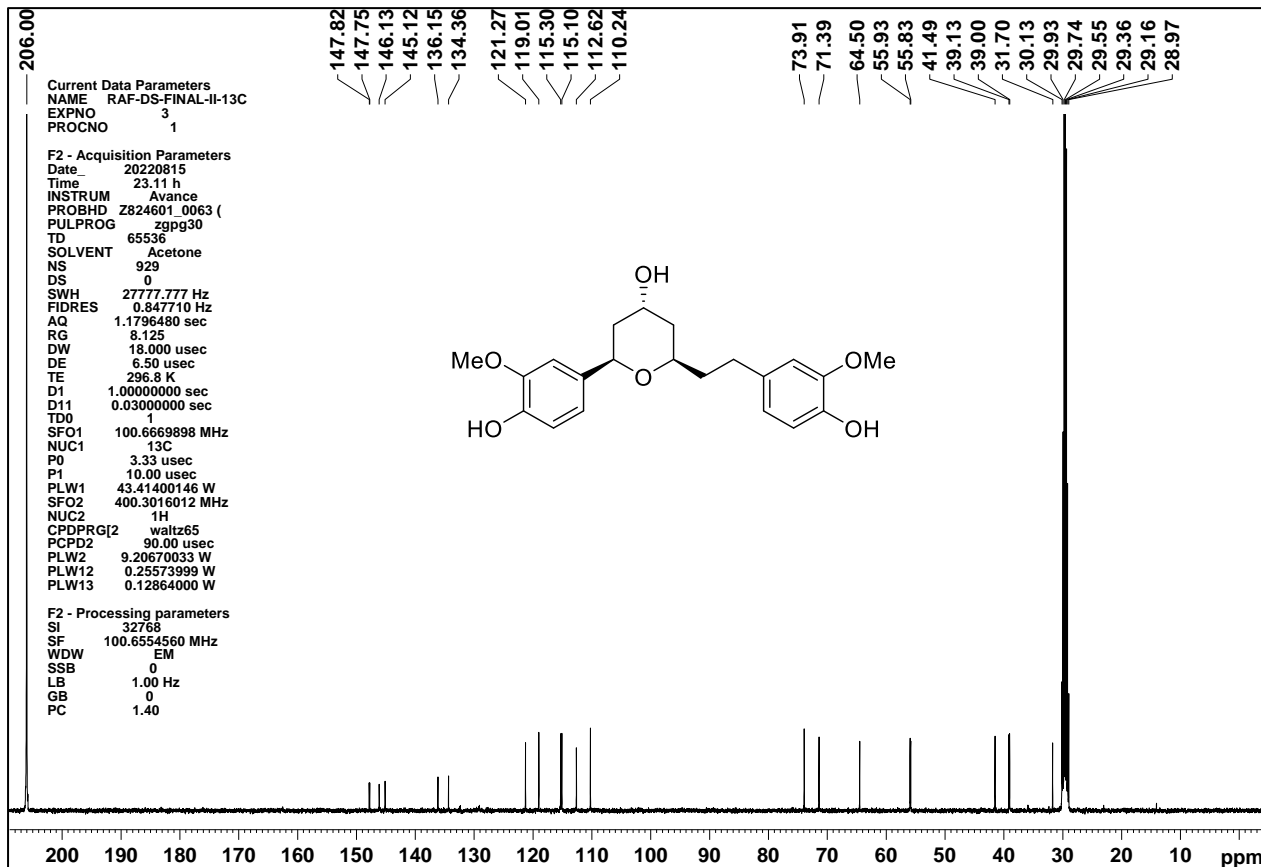
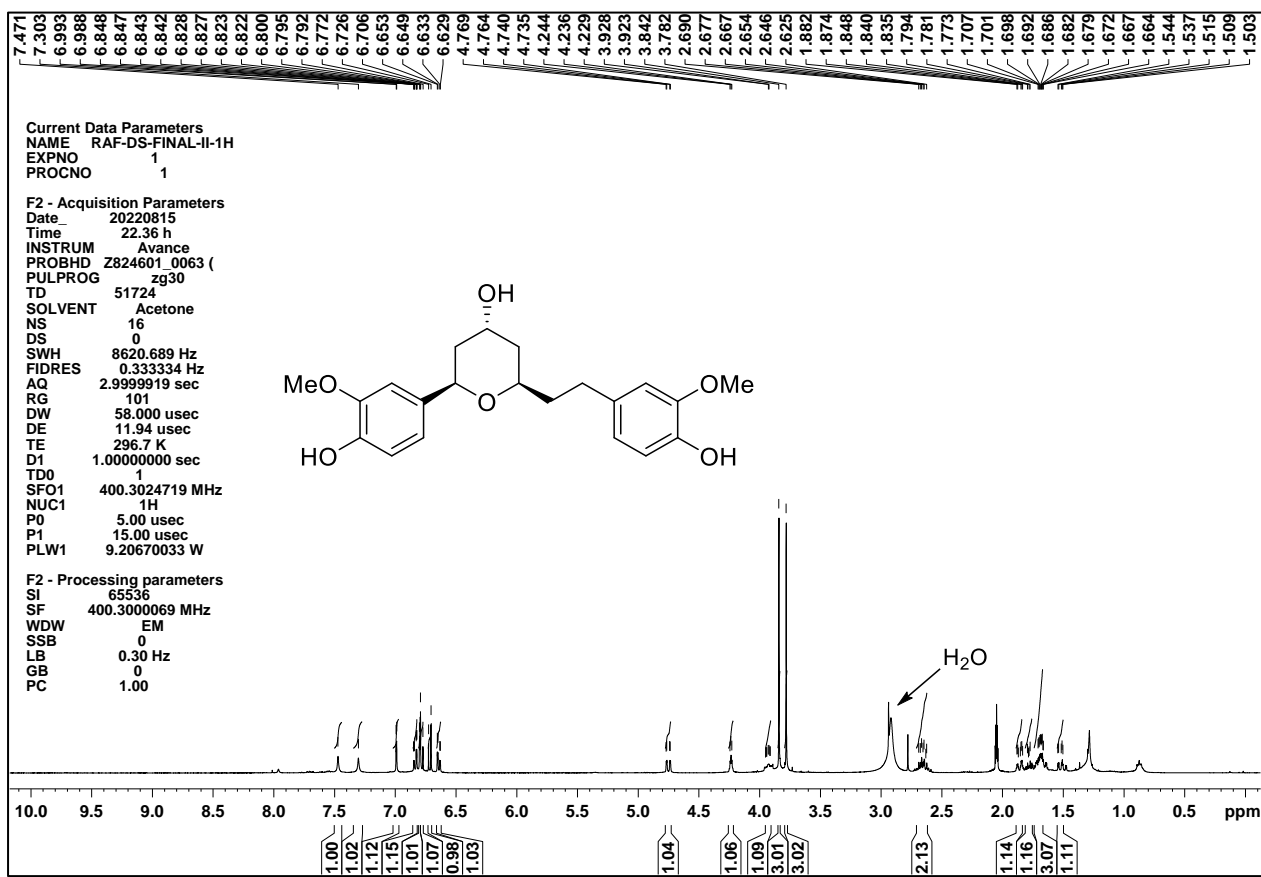
^1H NMR (400 MHz, CD_3COCD_3) and $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CD_3COCD_3) of compound **1a**



1a: HRMS (ESI-TOF) m/z : $[M + H]^+$ calcd for $C_{21}H_{27}O_6$ 375.1802, found 375.1797.



^1H NMR (400 MHz, CD_3COCD_3) of $^{13}\text{C}\{^1\text{H}\}$ NMR (100 MHz, CD_3COCD_3) of compound **1b**



1b: HRMS (ESI-TOF) m/z : $[M + H]^+$ calcd for $C_{21}H_{27}O_6$ 375.1802, found 375.1800.

