

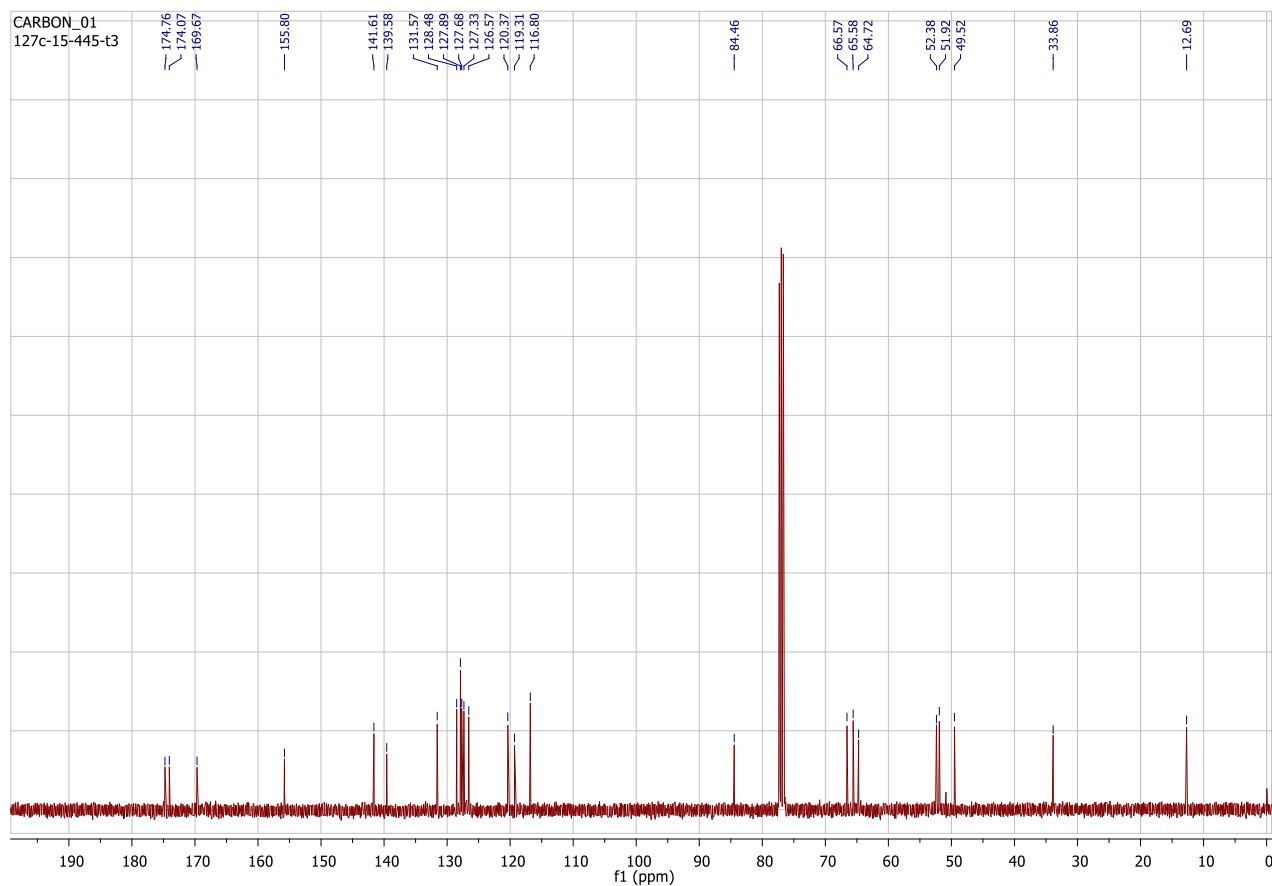
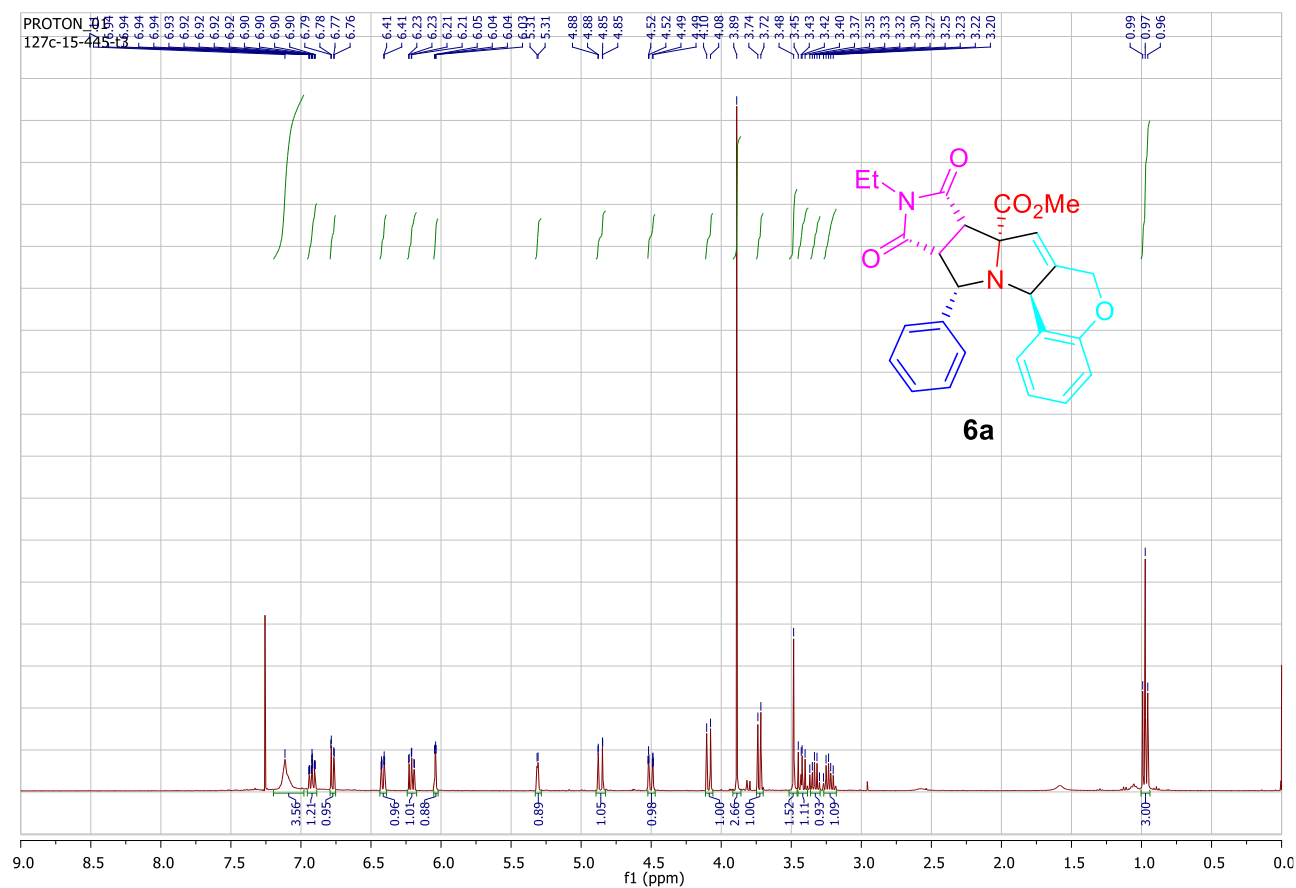
One-pot Double [3+2] Cycloadditions for Diastereoselective Synthesis of Pyrrolidine-based Polycyclic Systems

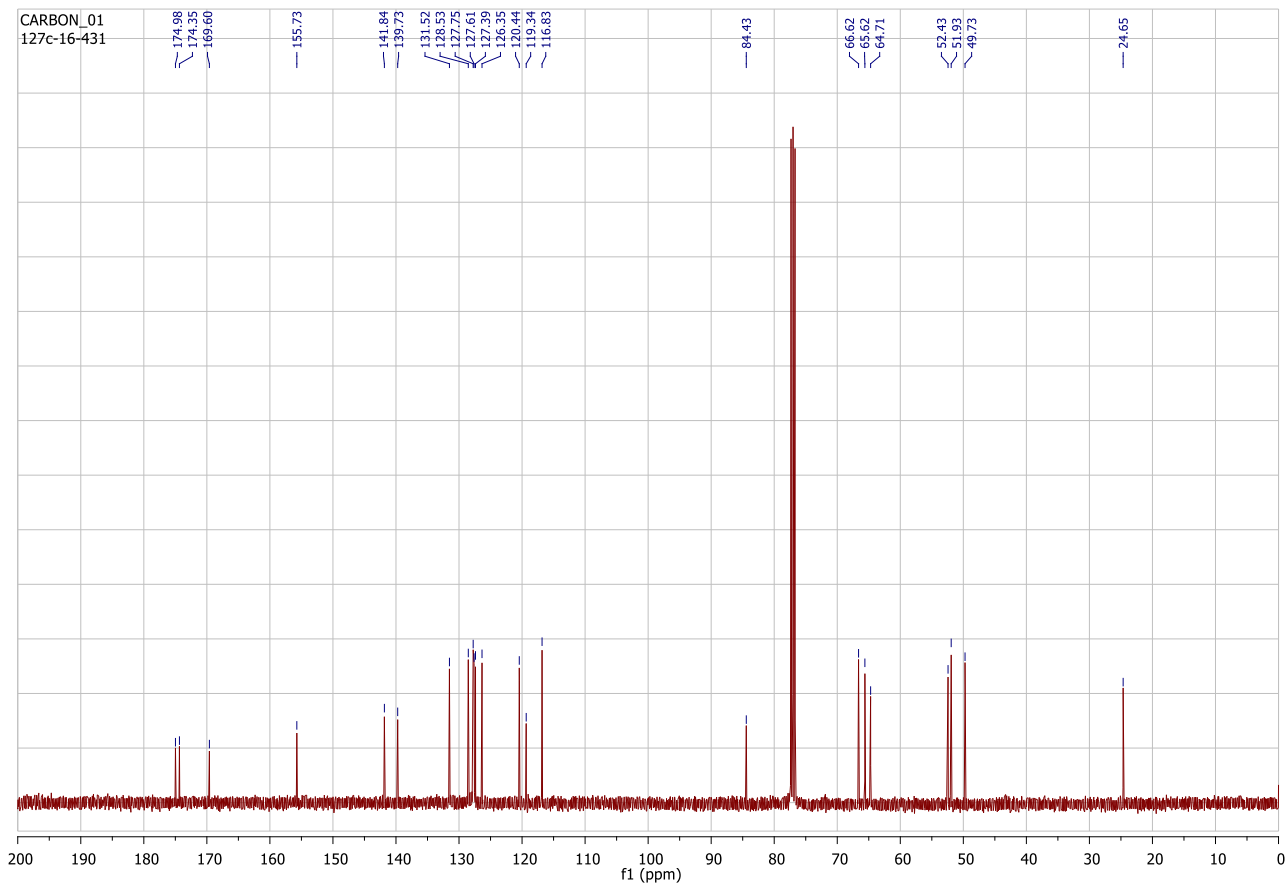
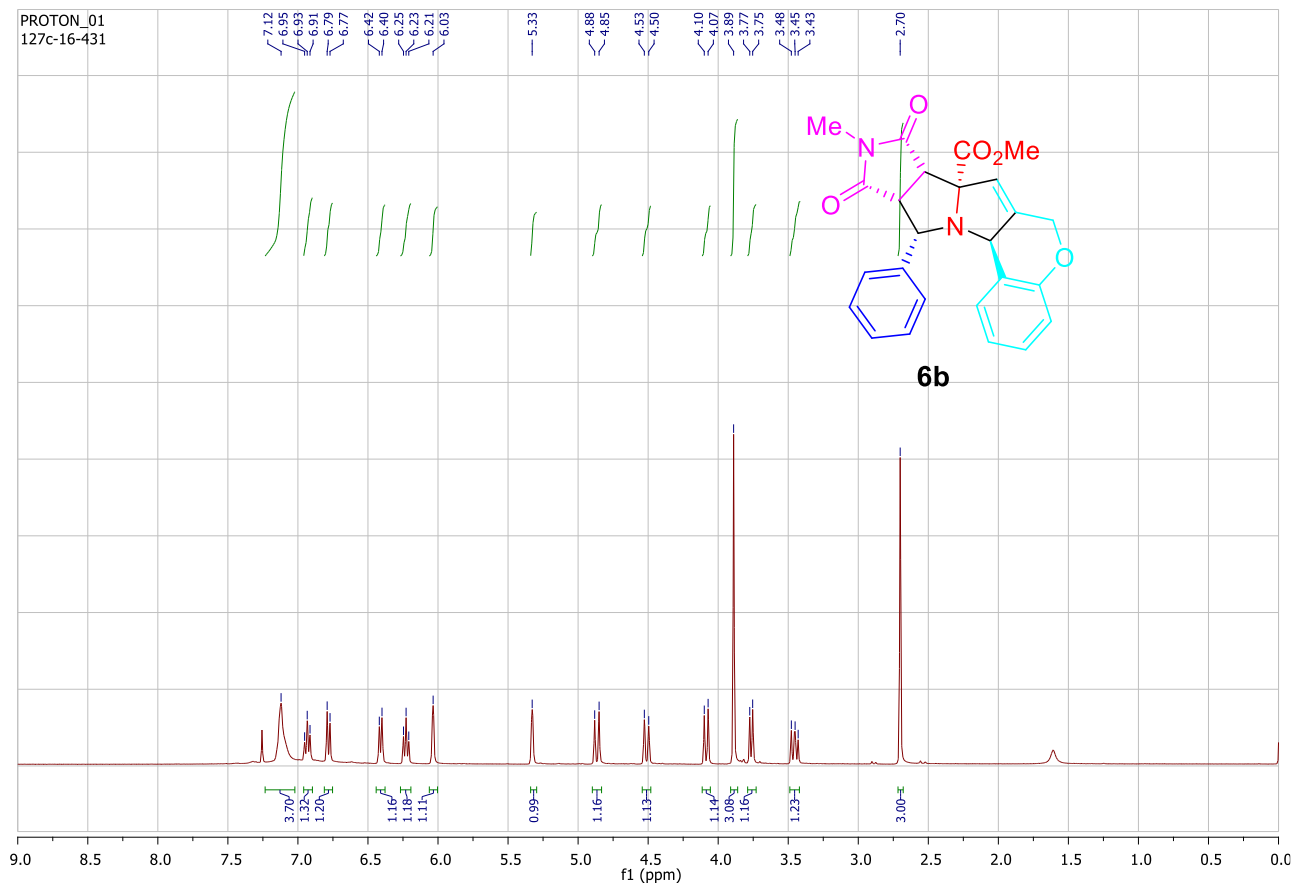
Xiaofeng Zhang, Weiqi Qiu, Xiaoming Ma, Jason Evans, Manpreet Kaur, Jerry P. Jasinski, Wei Zhang

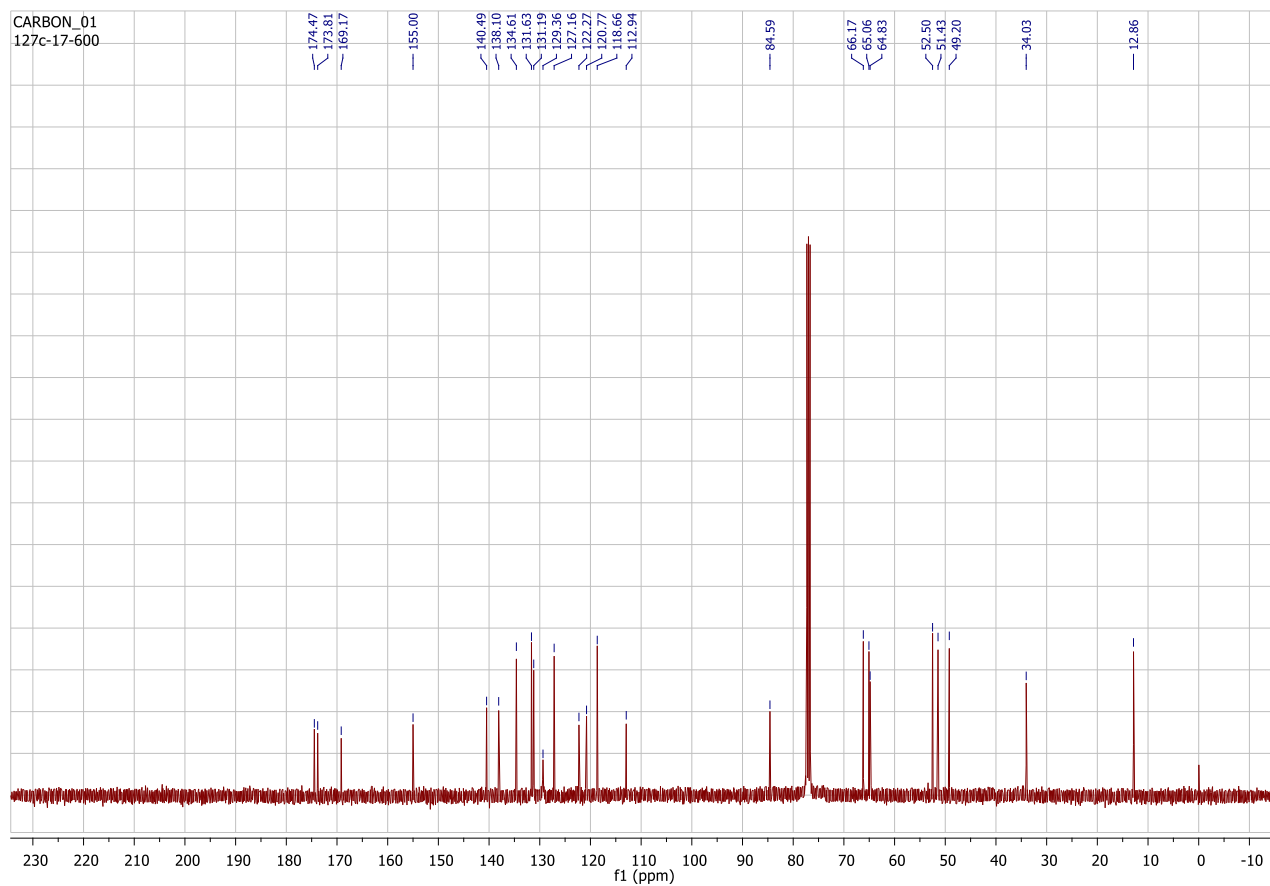
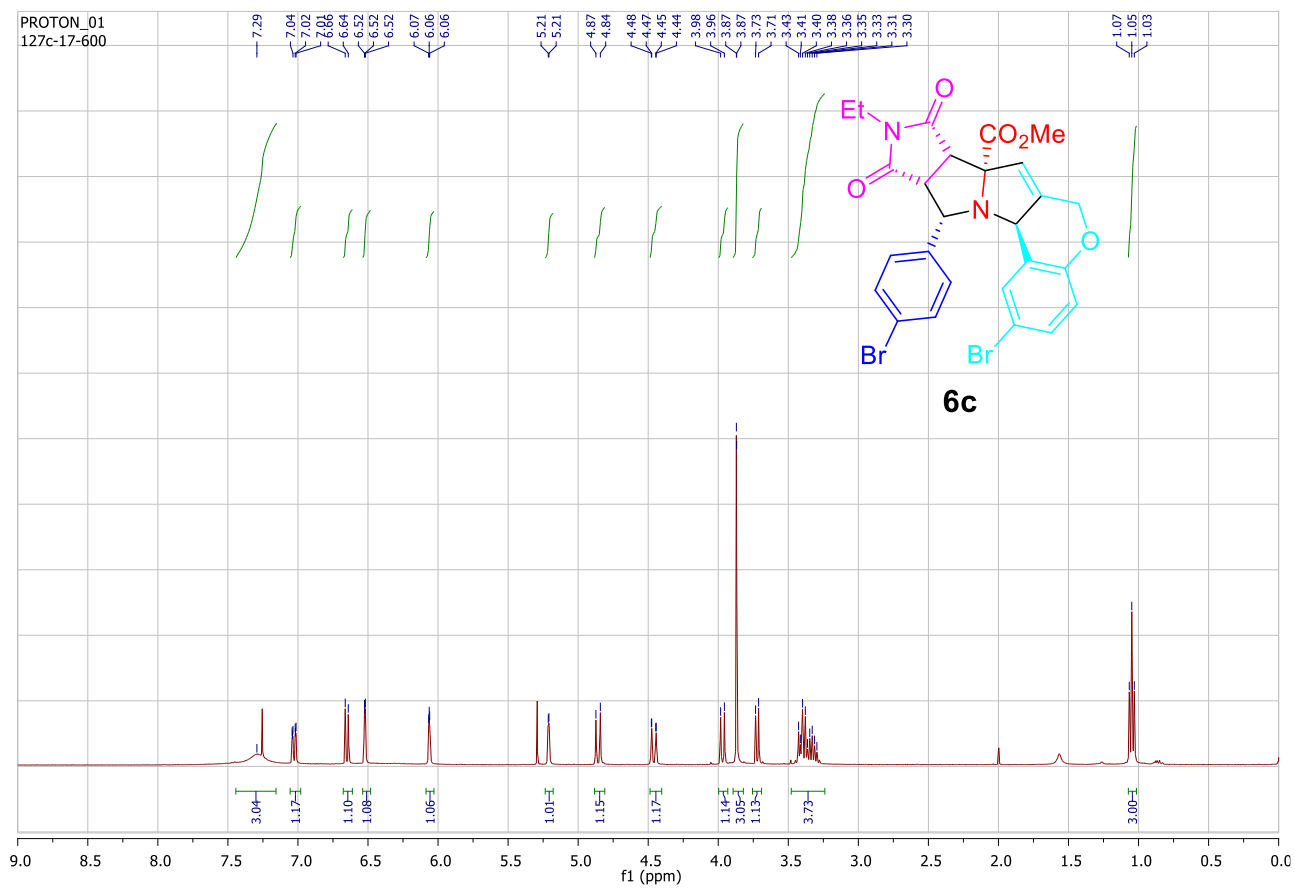
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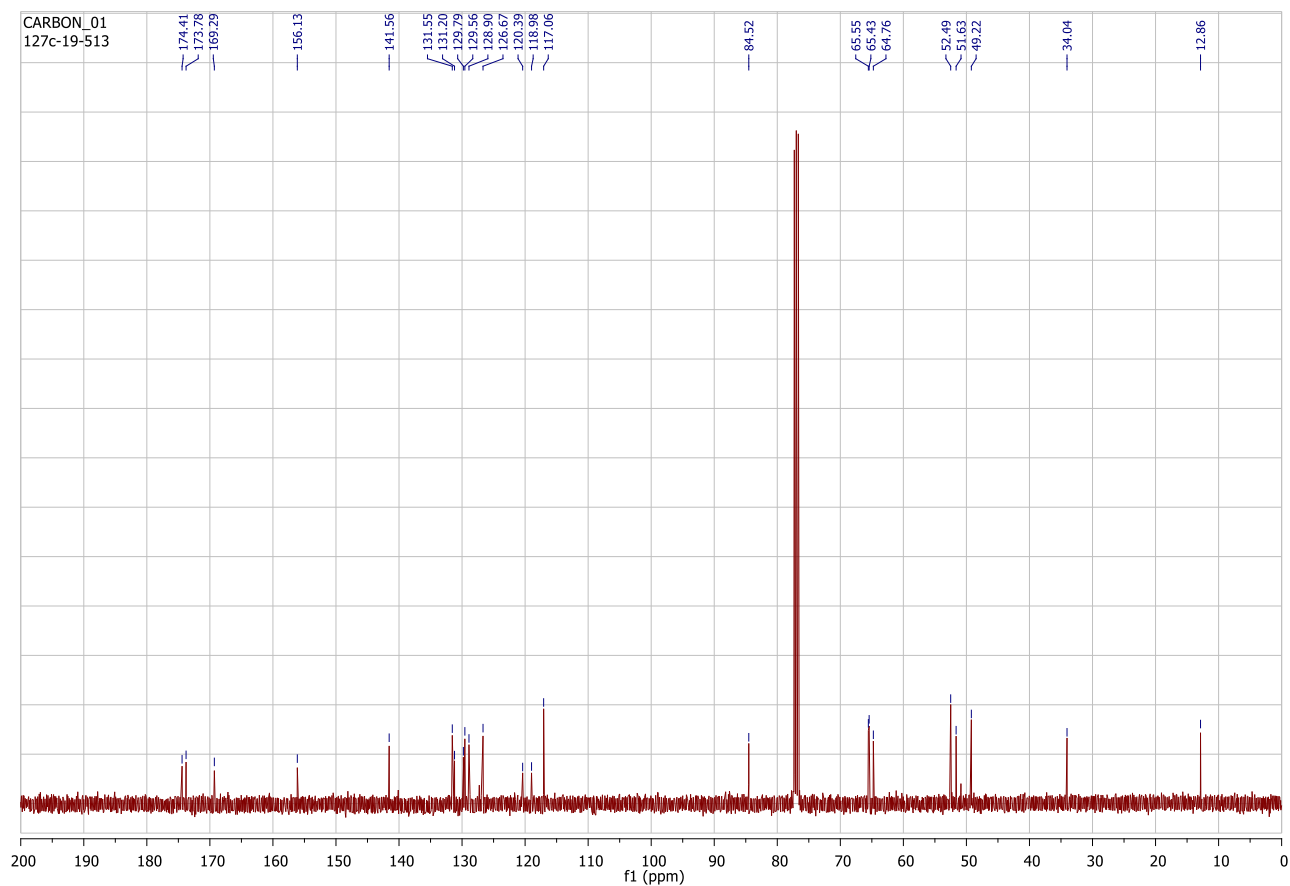
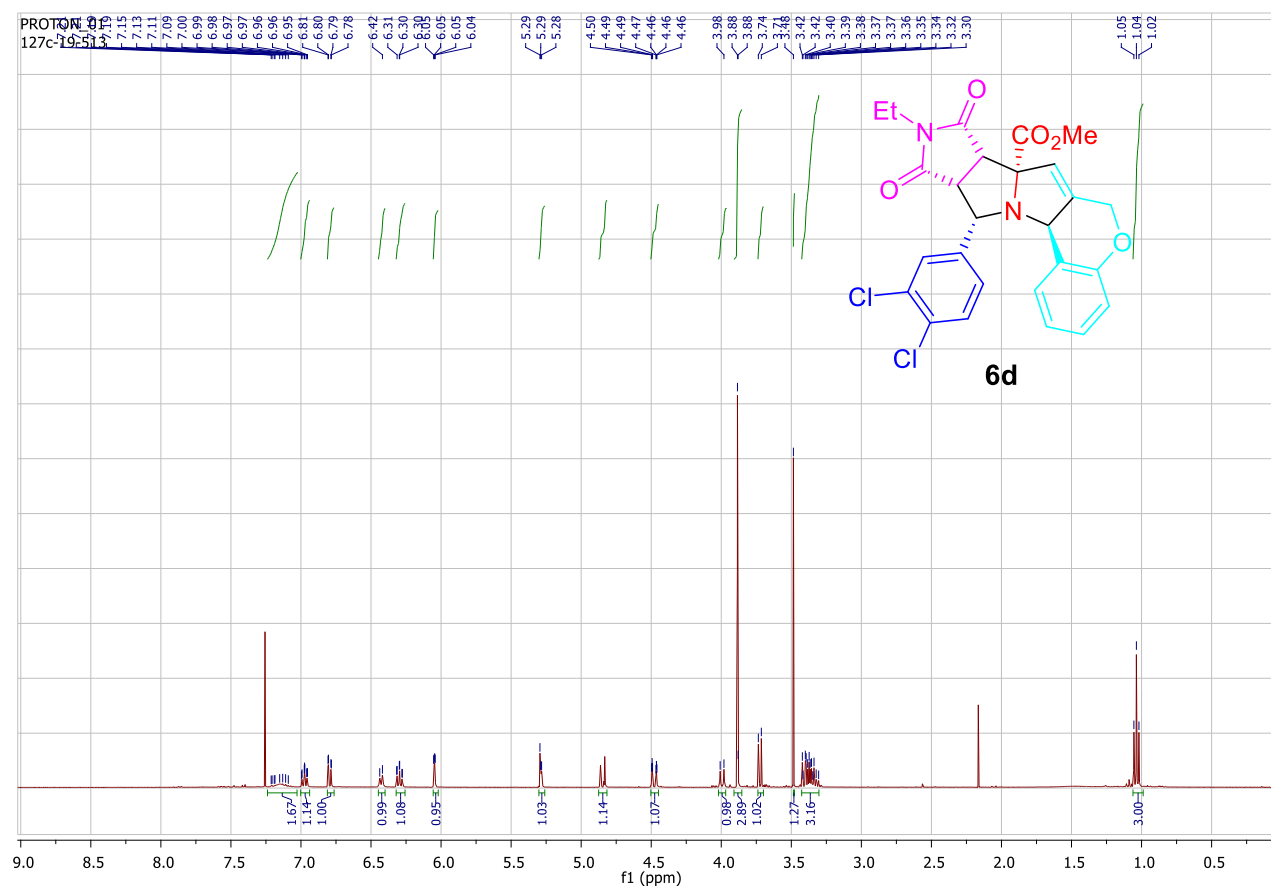
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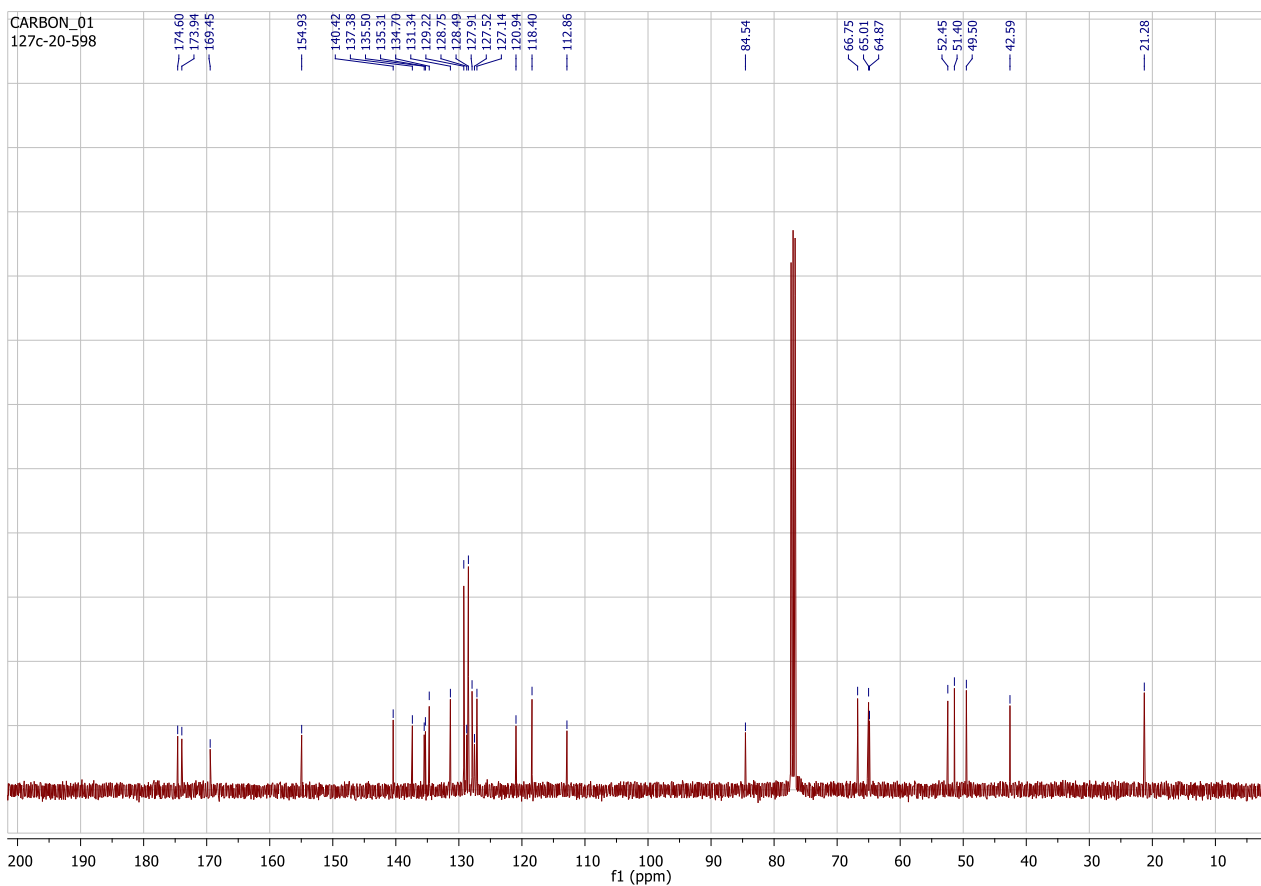
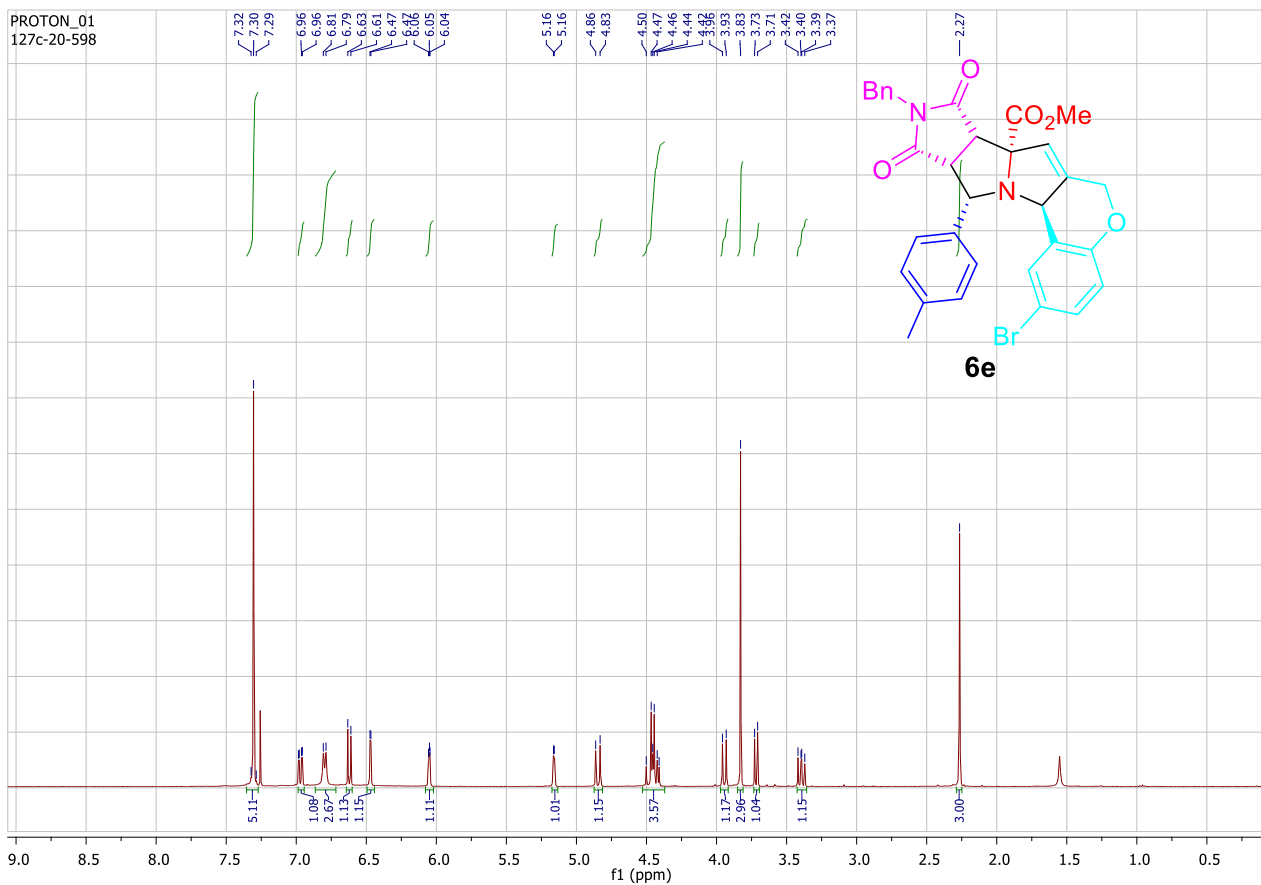
1. NMR Spectra of Products

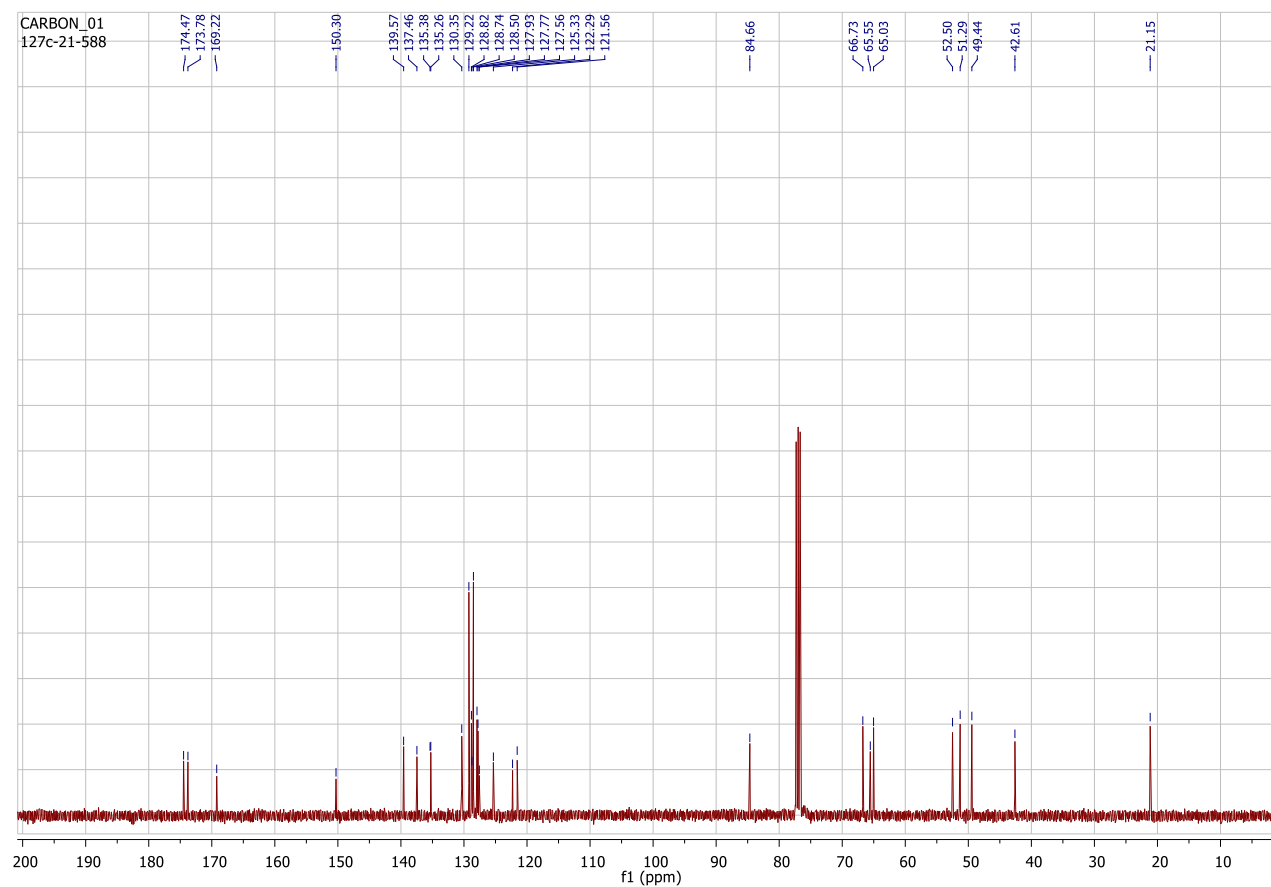
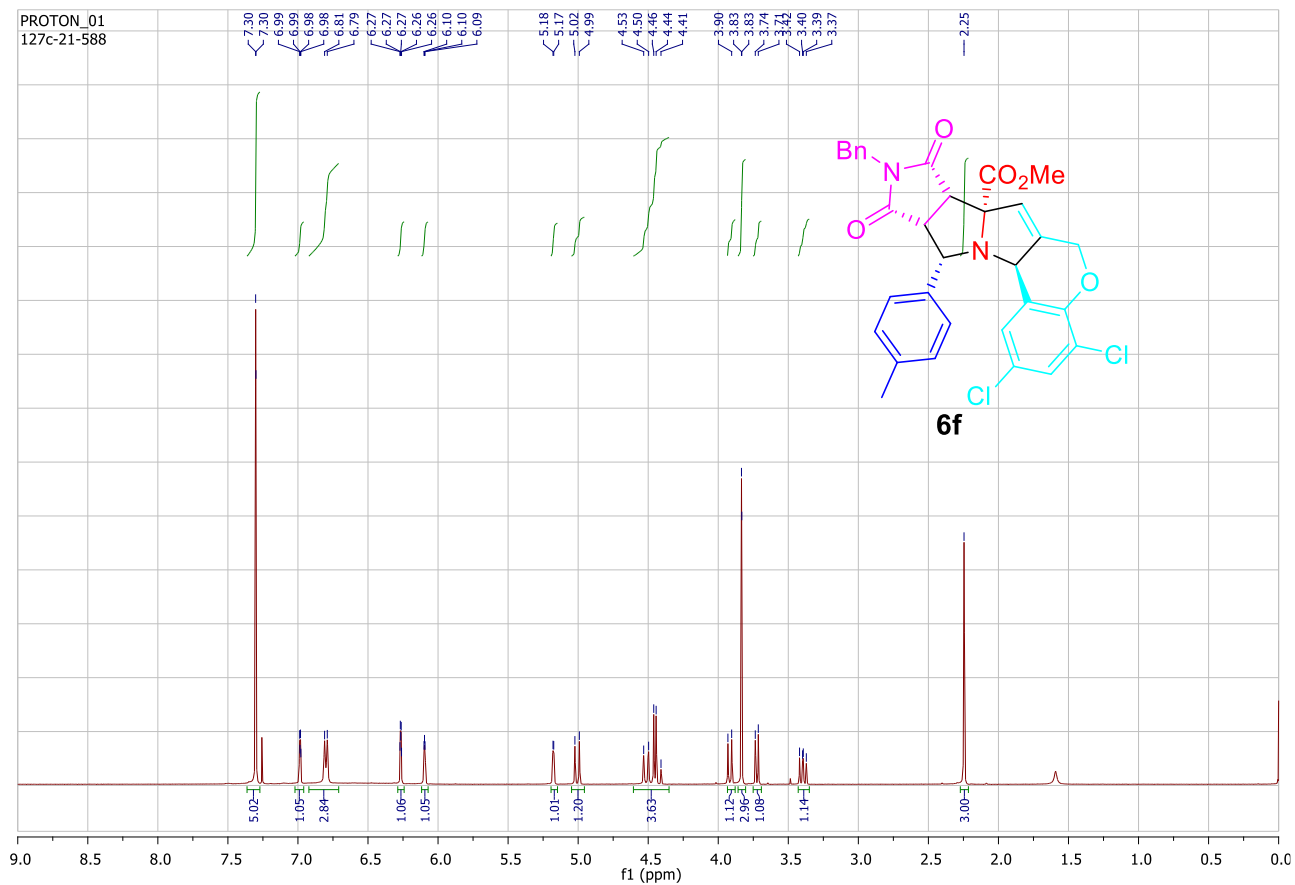


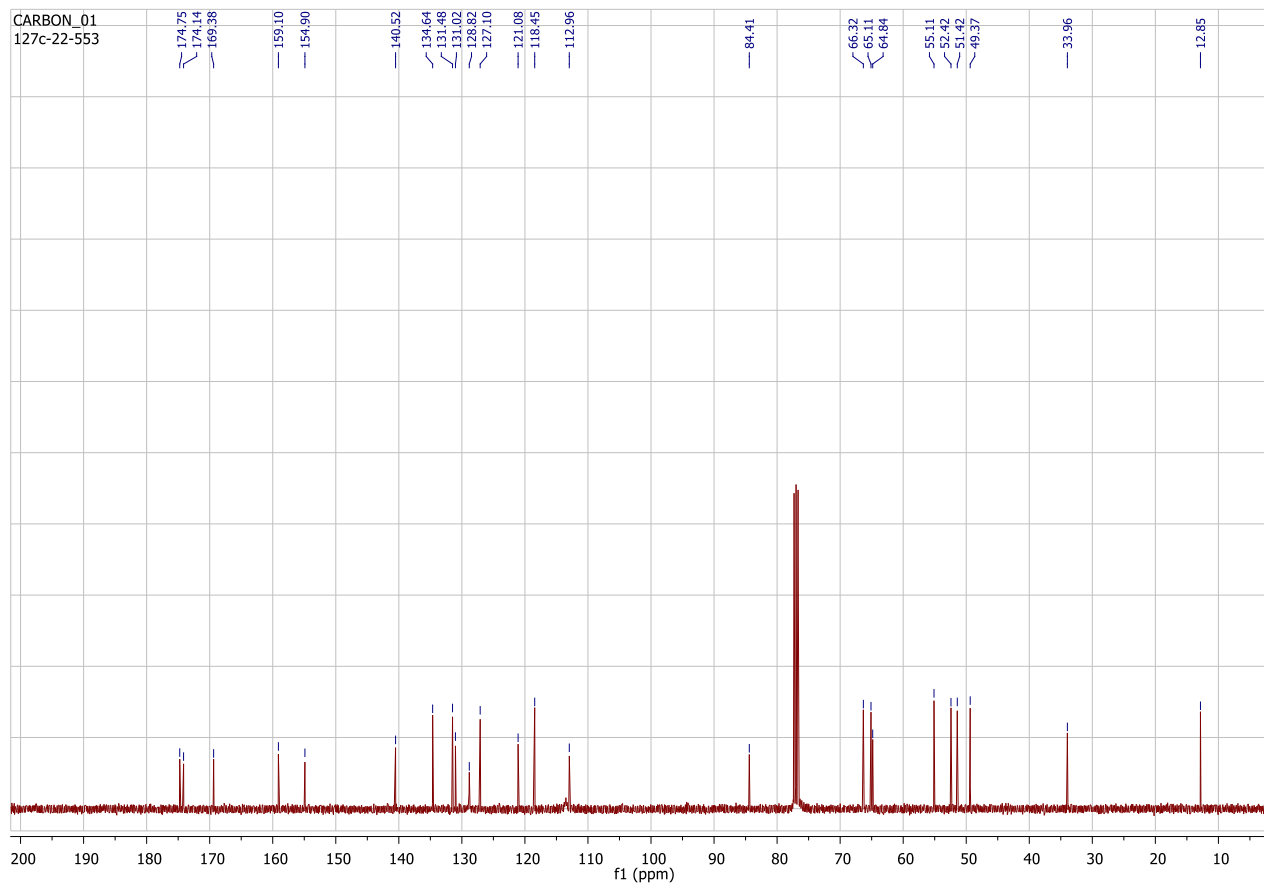
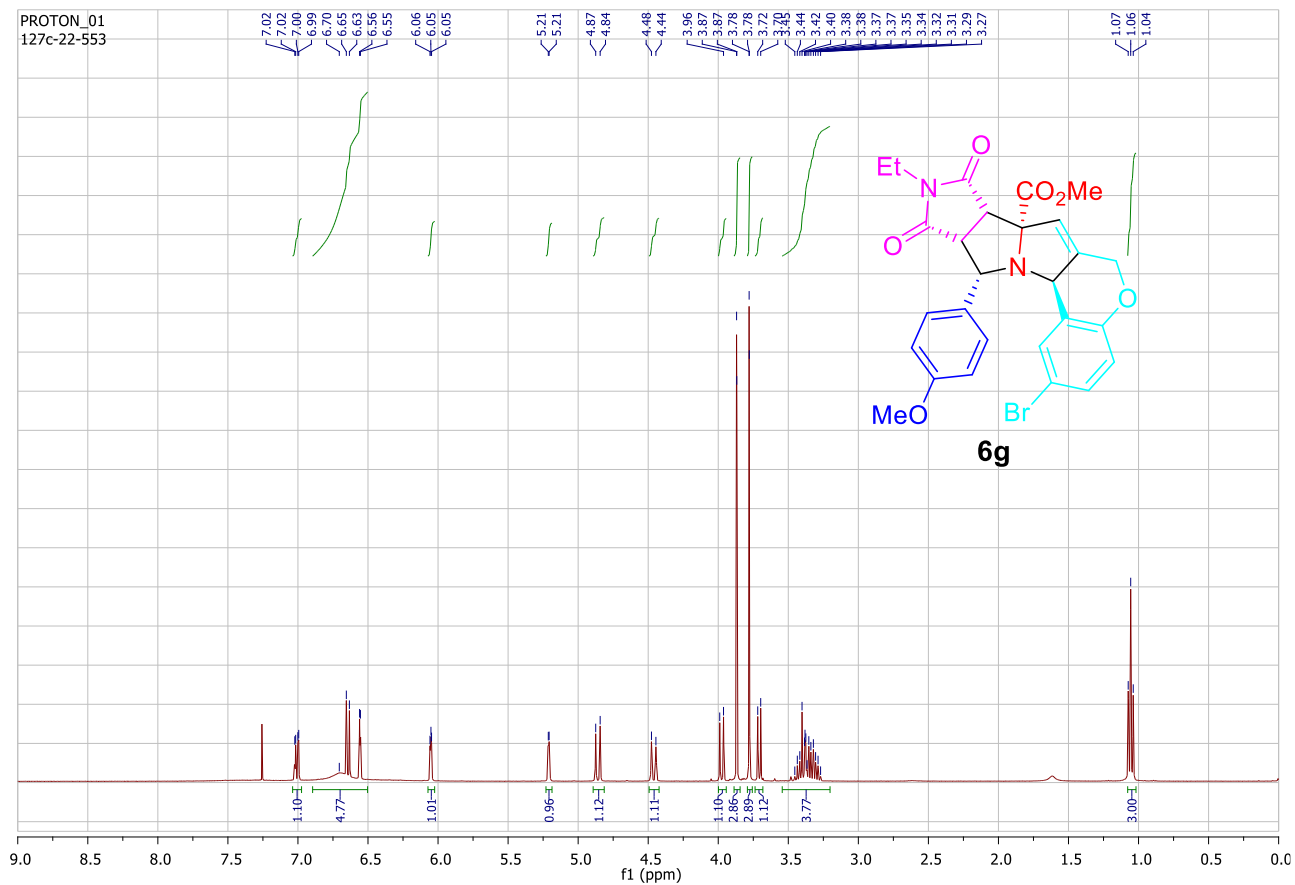


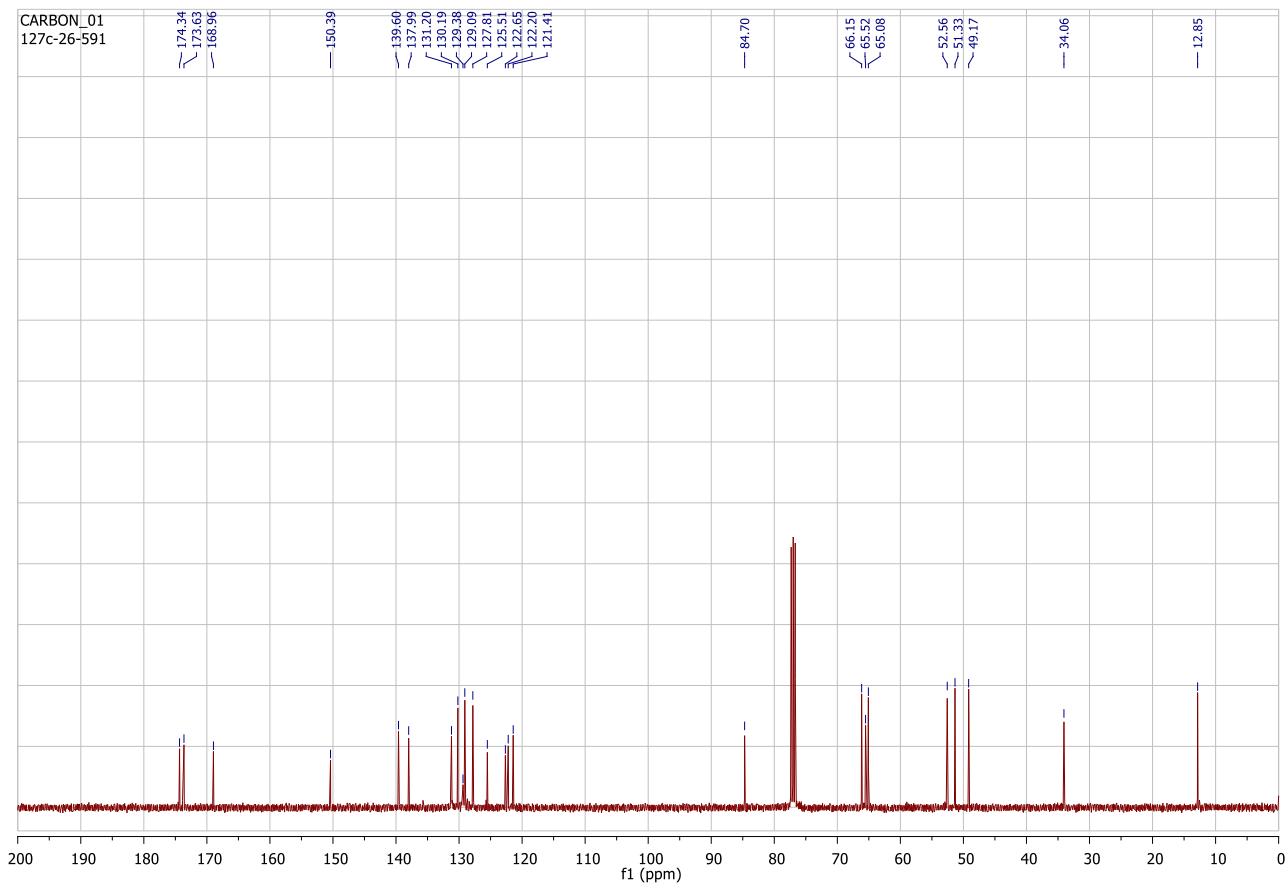
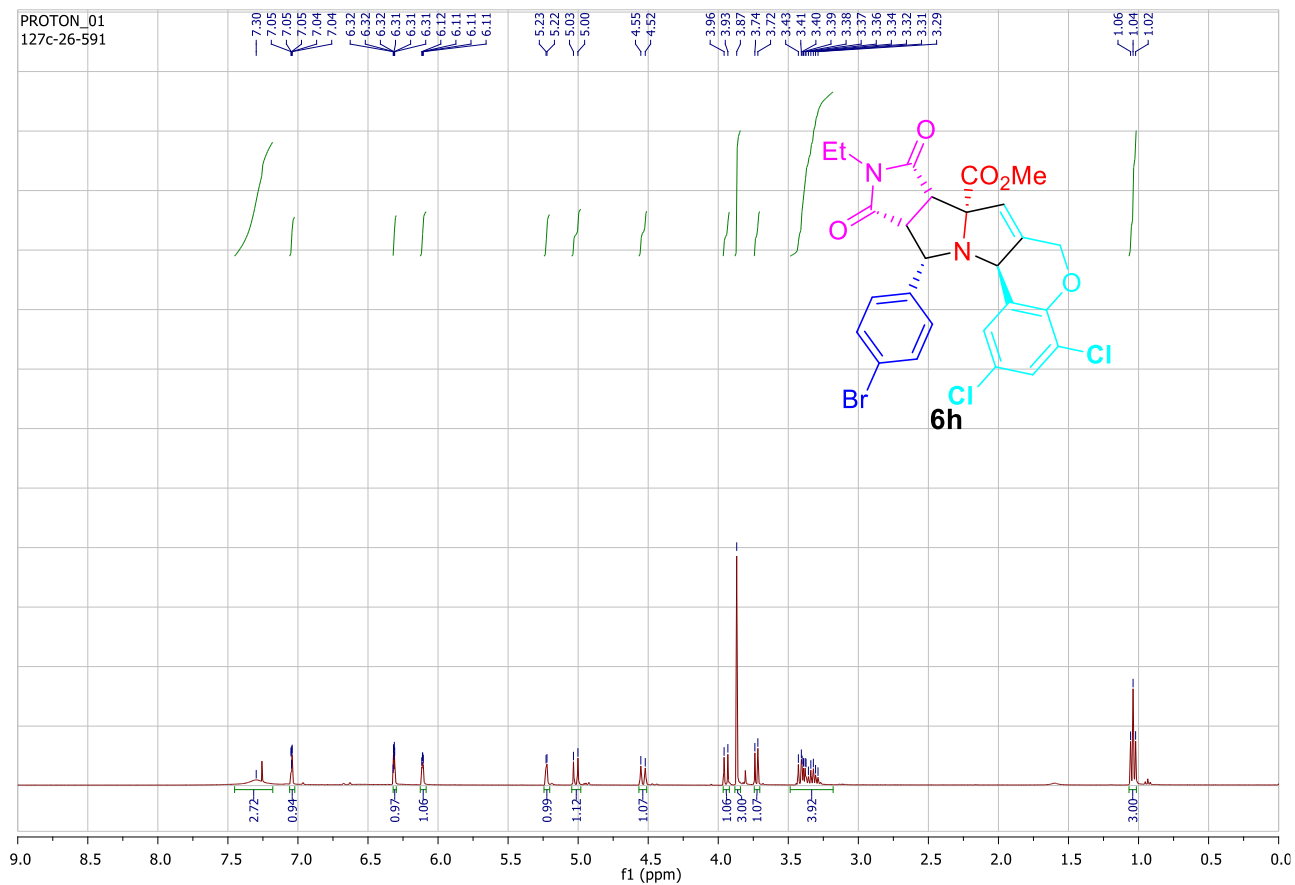


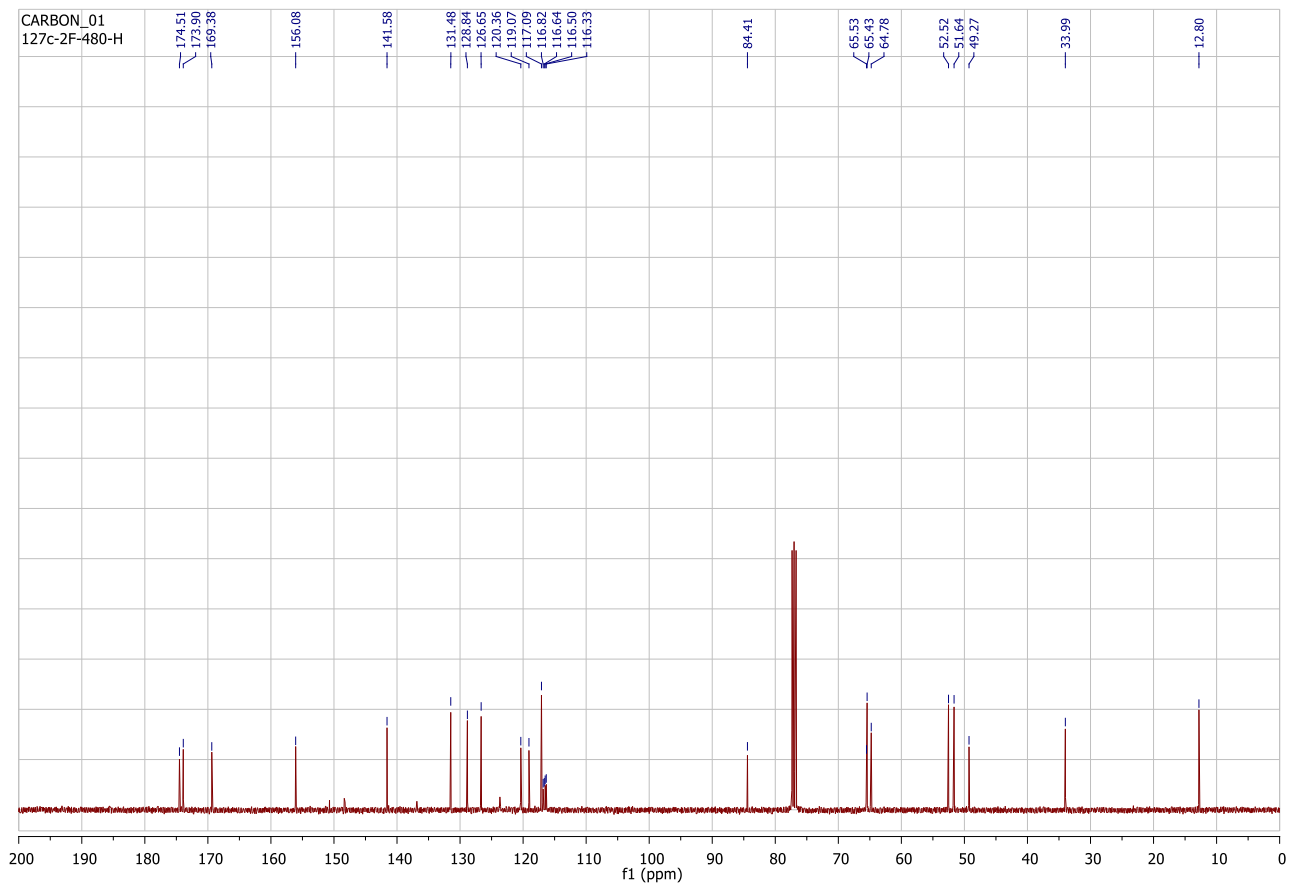
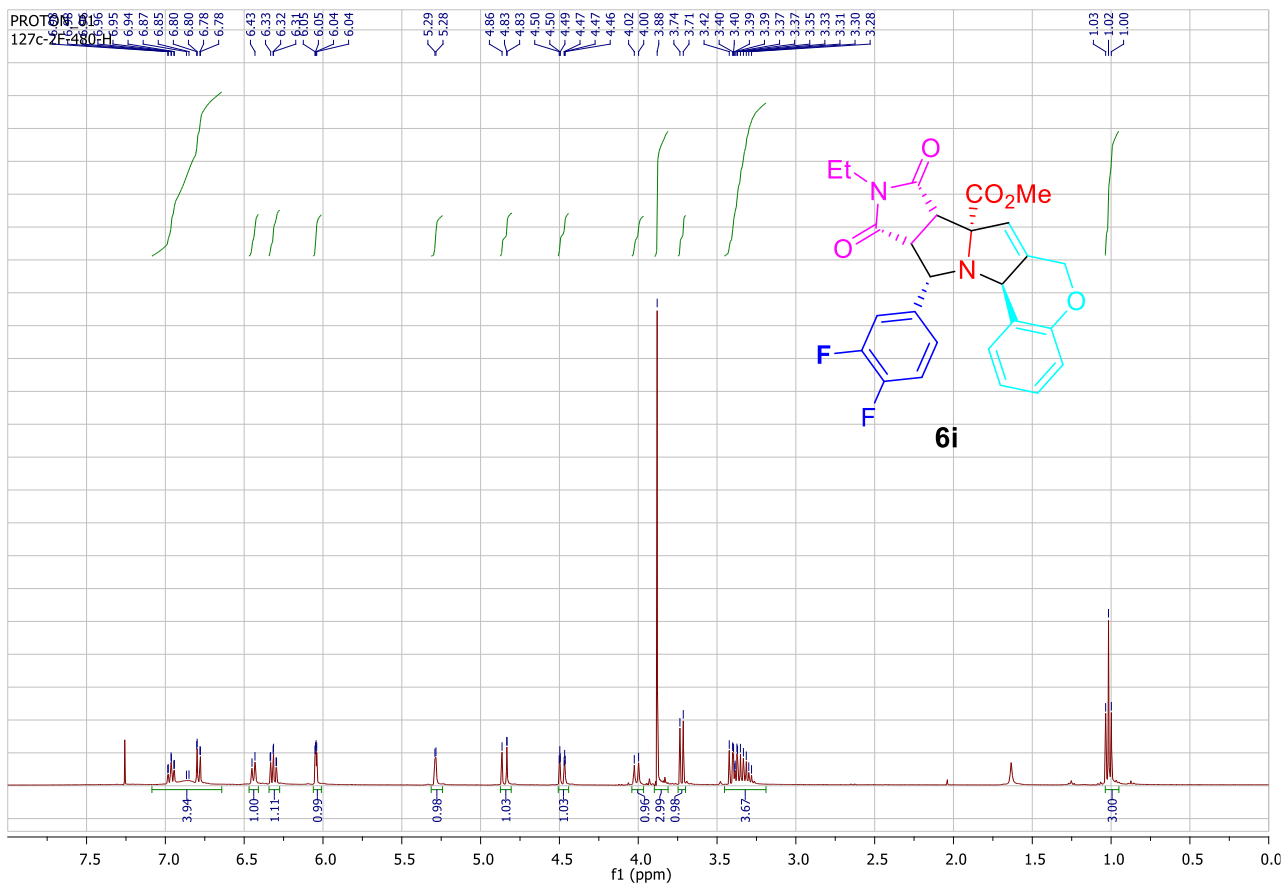


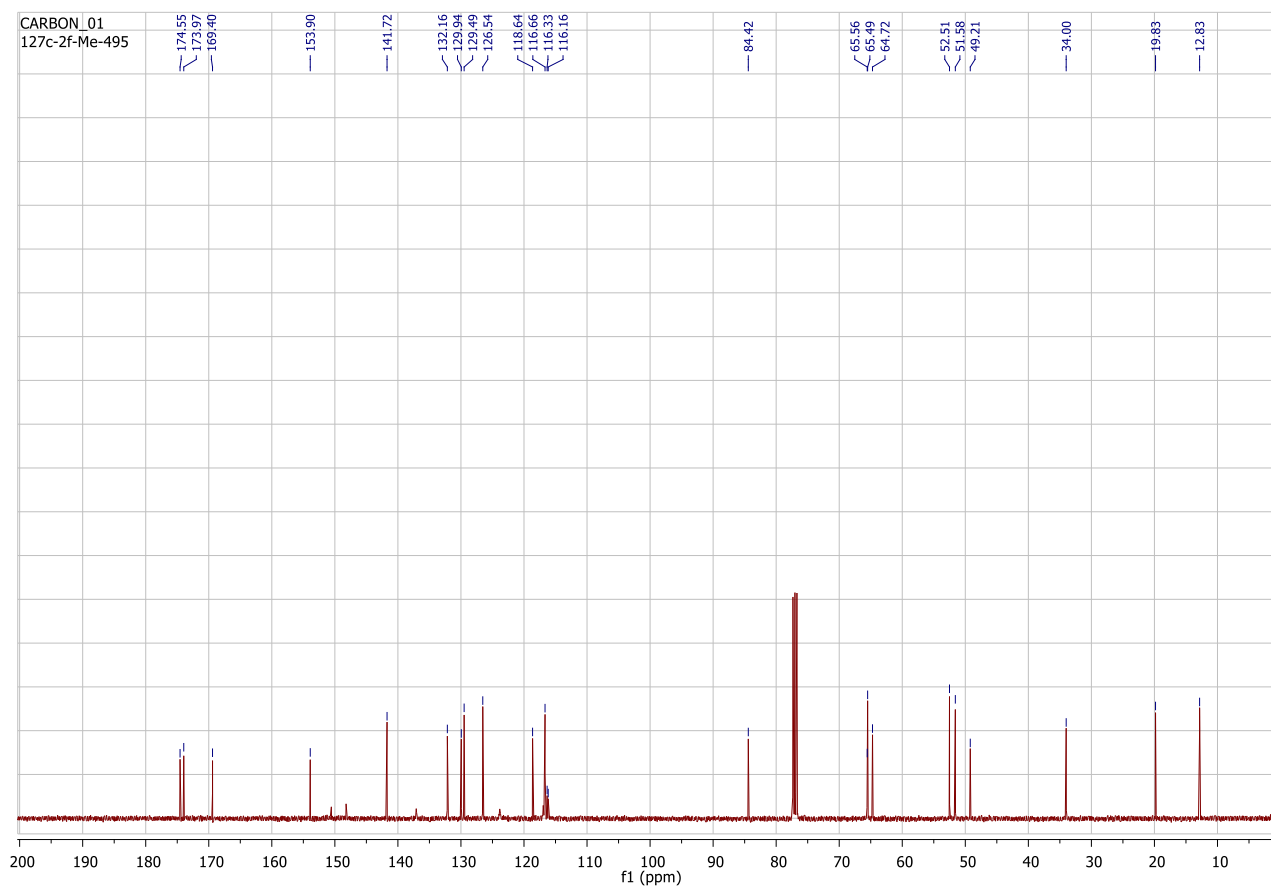
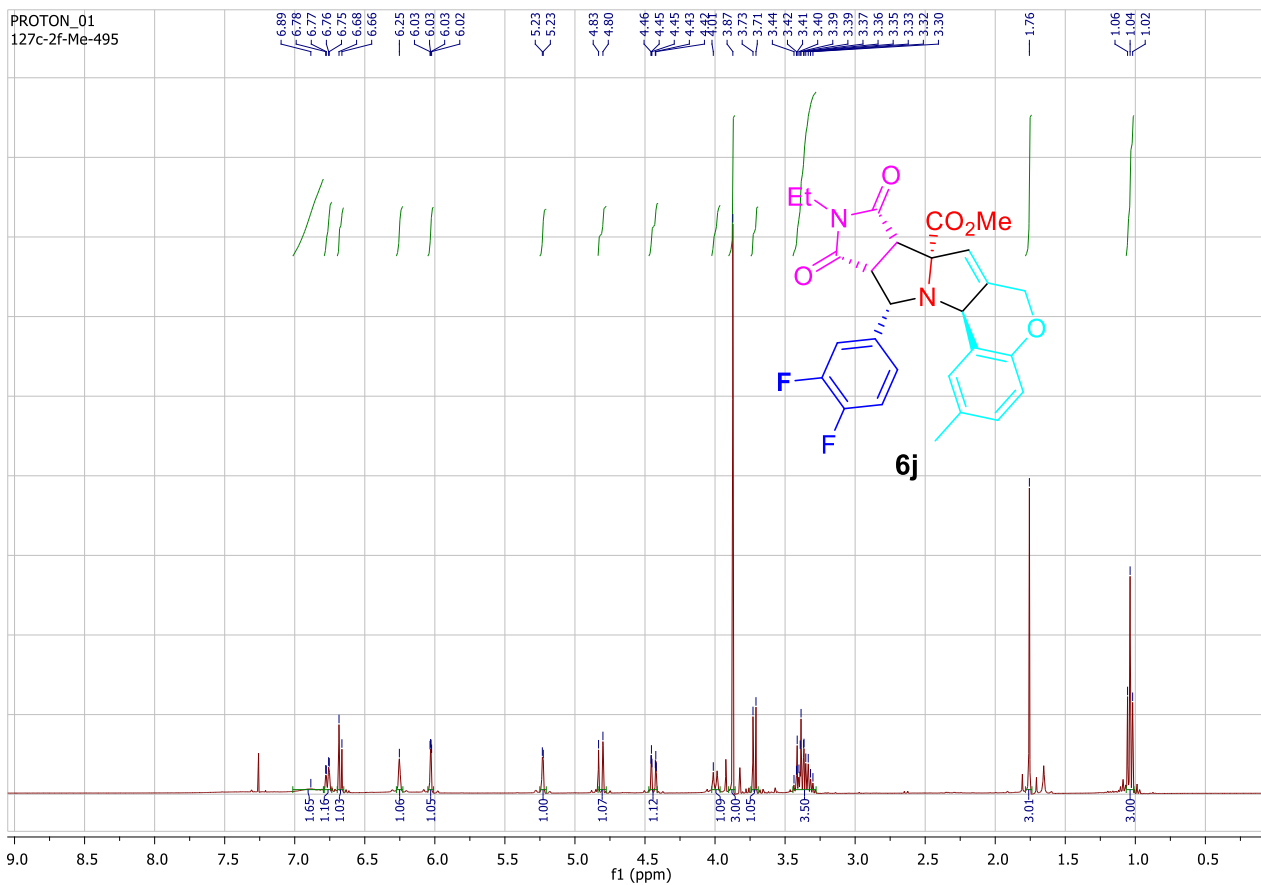


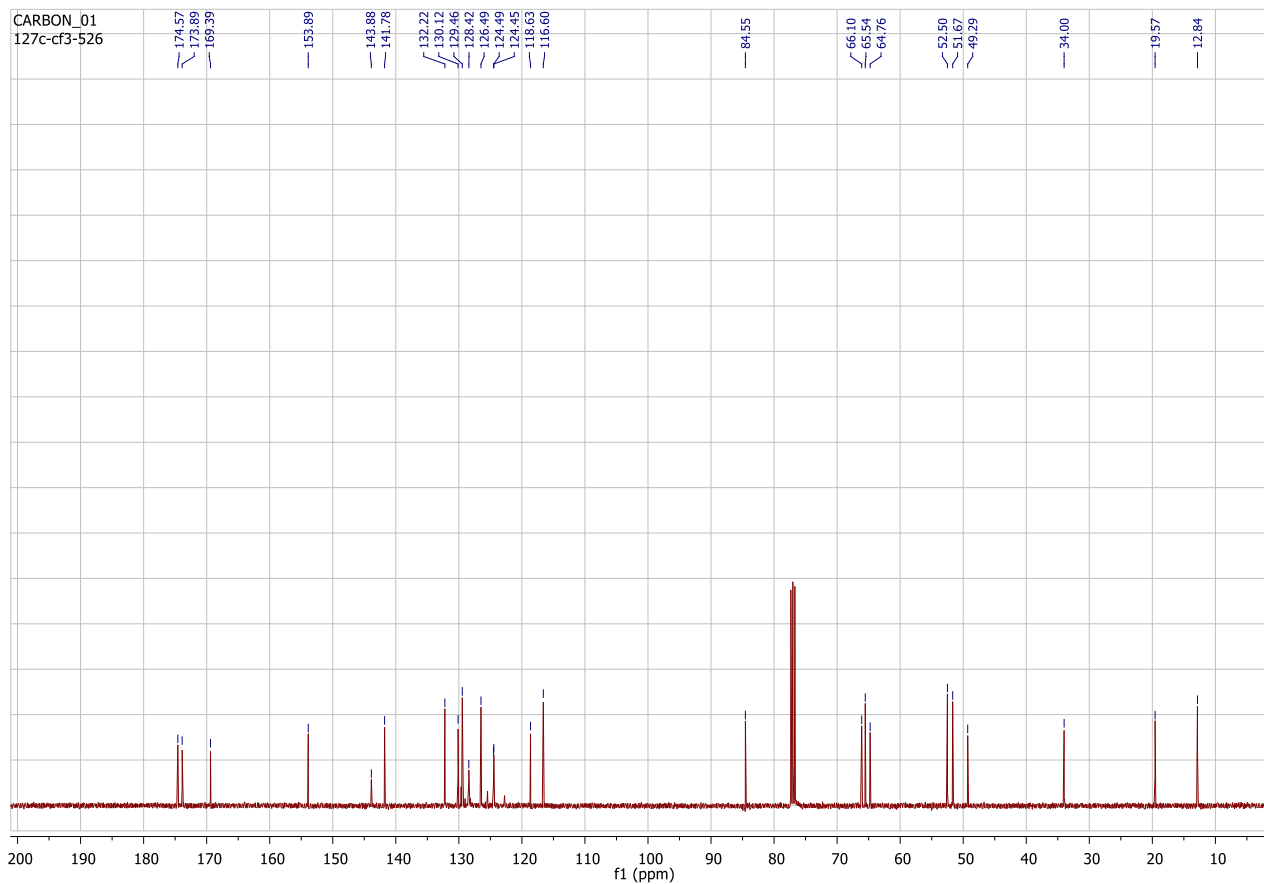
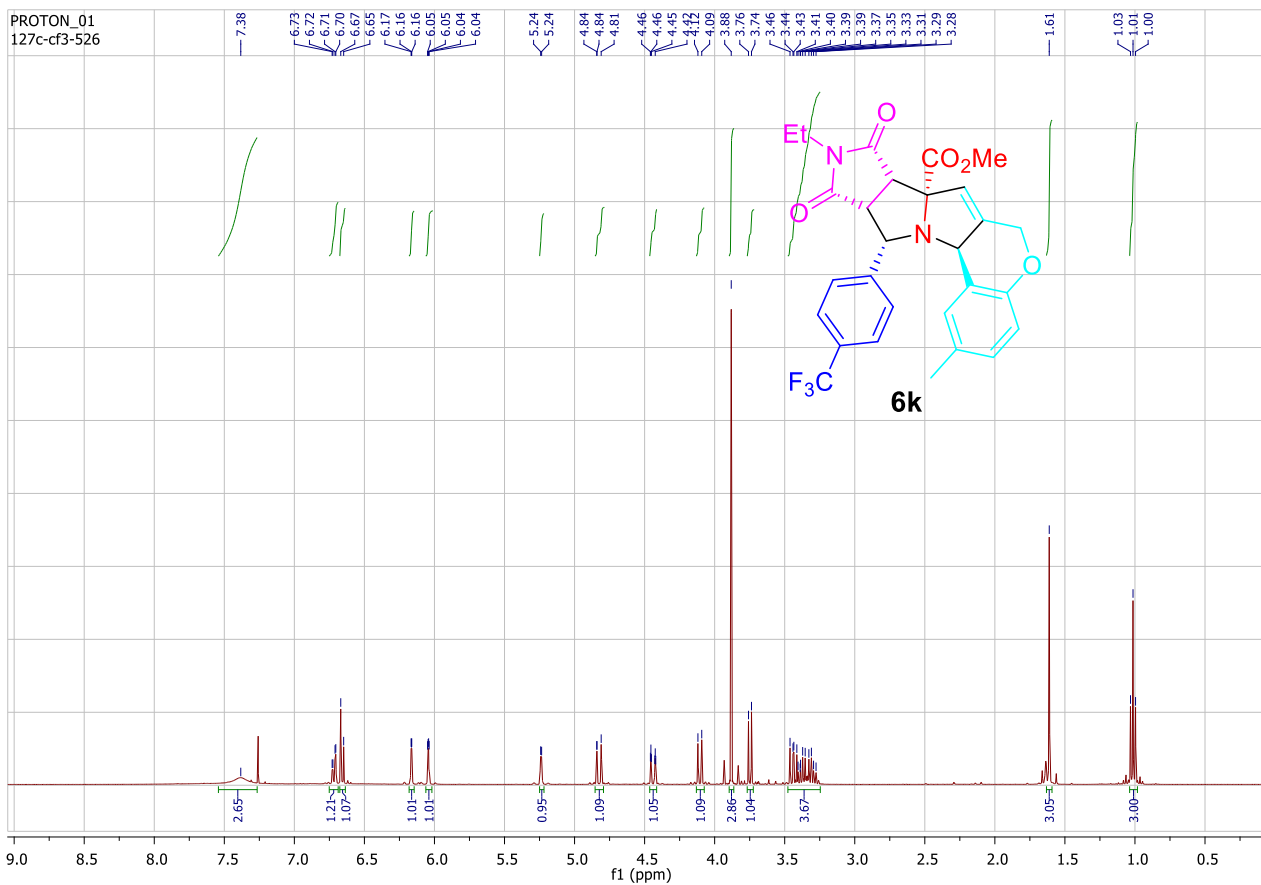


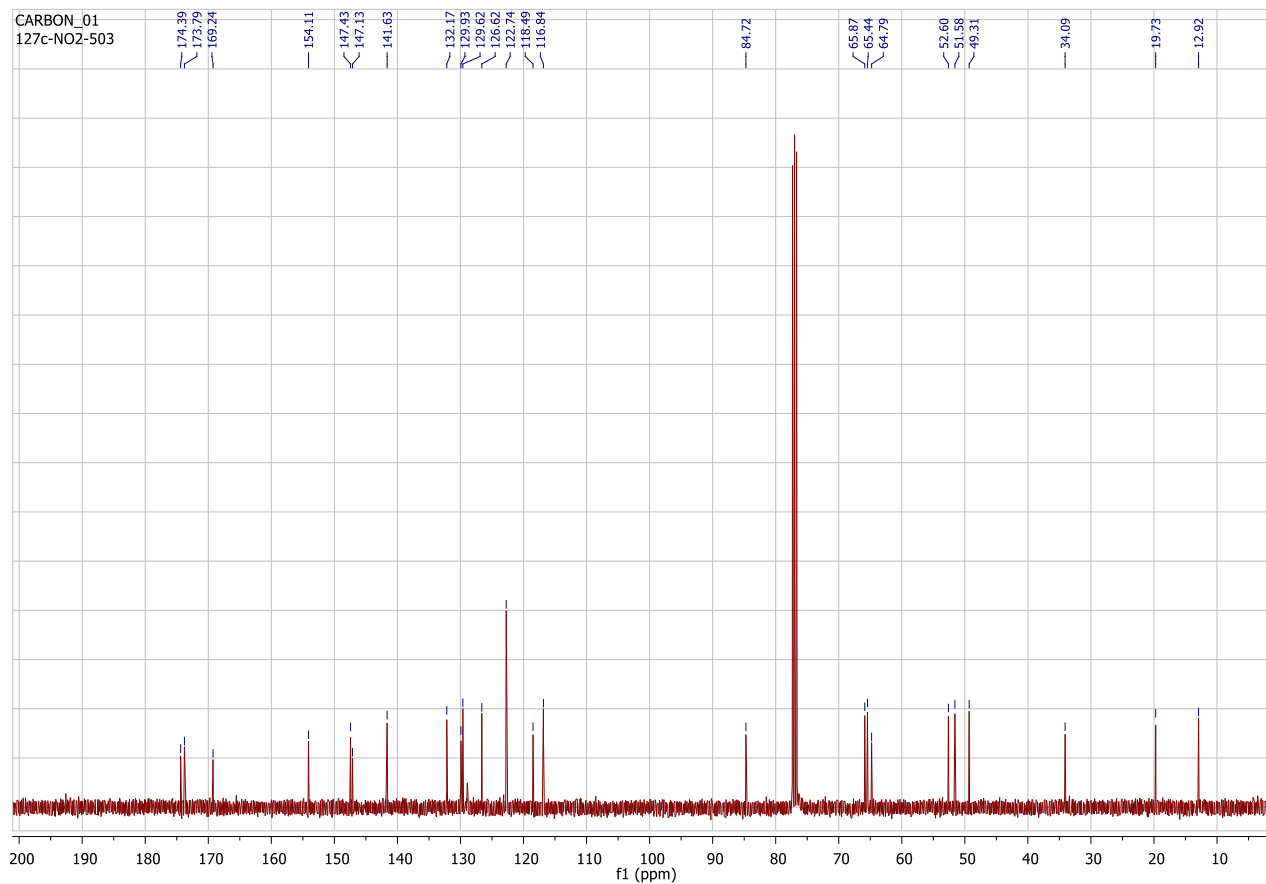
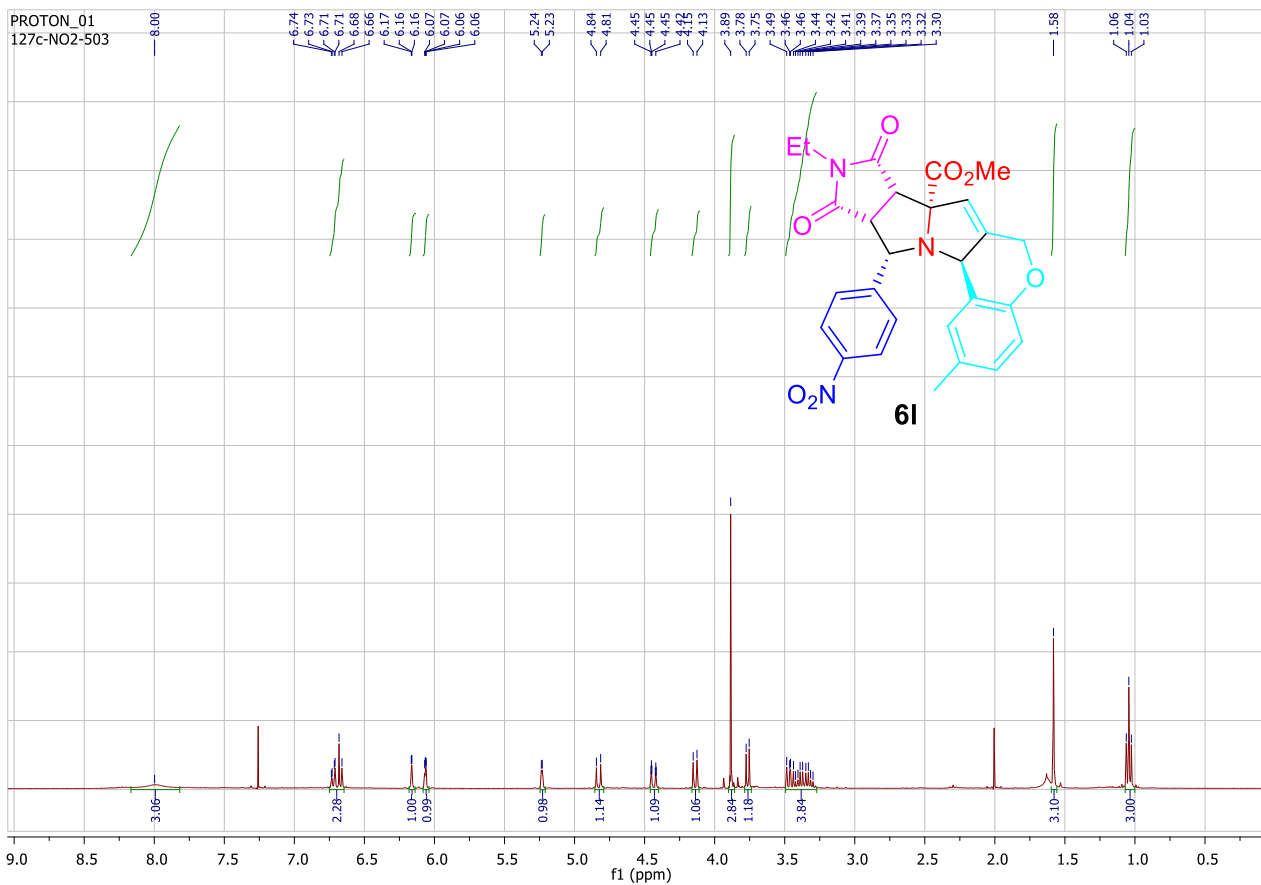


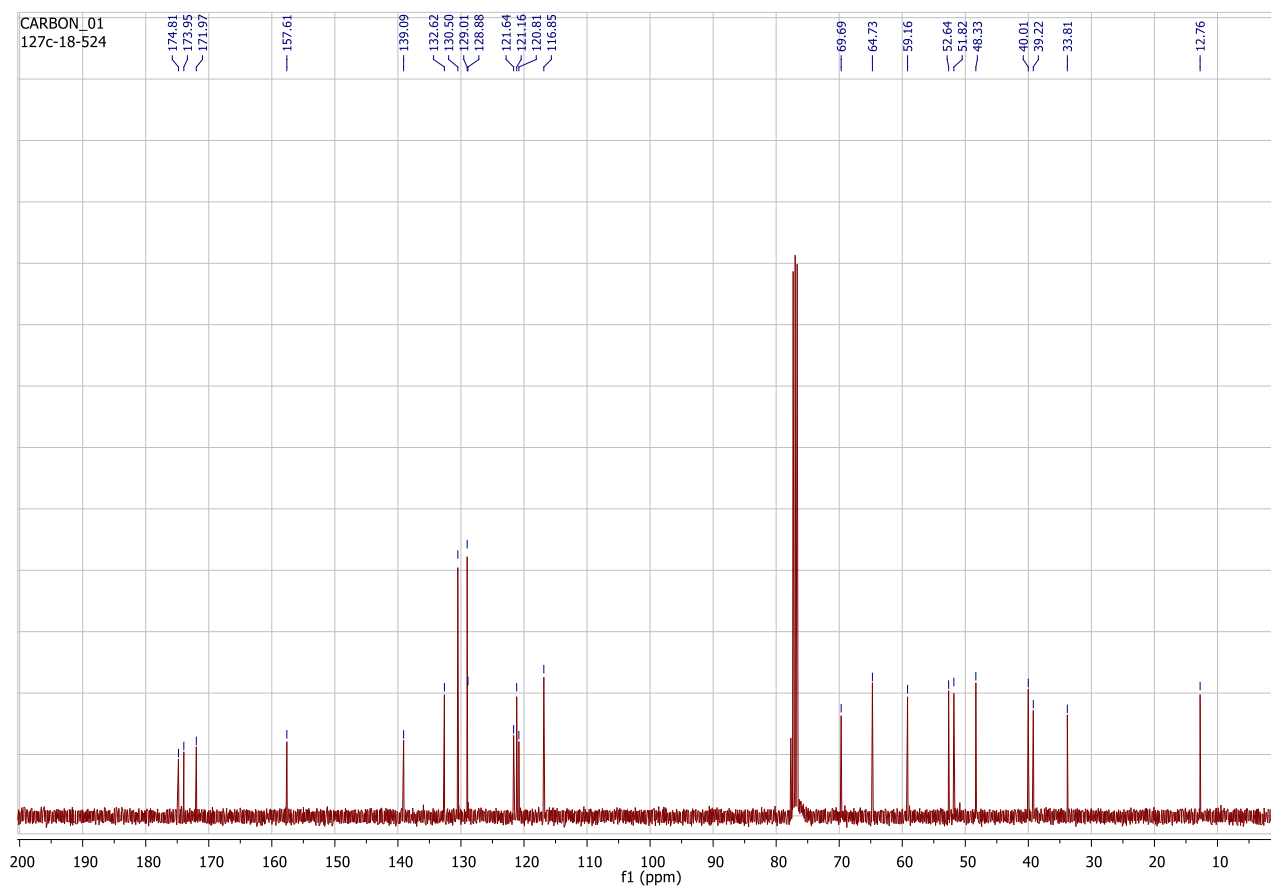
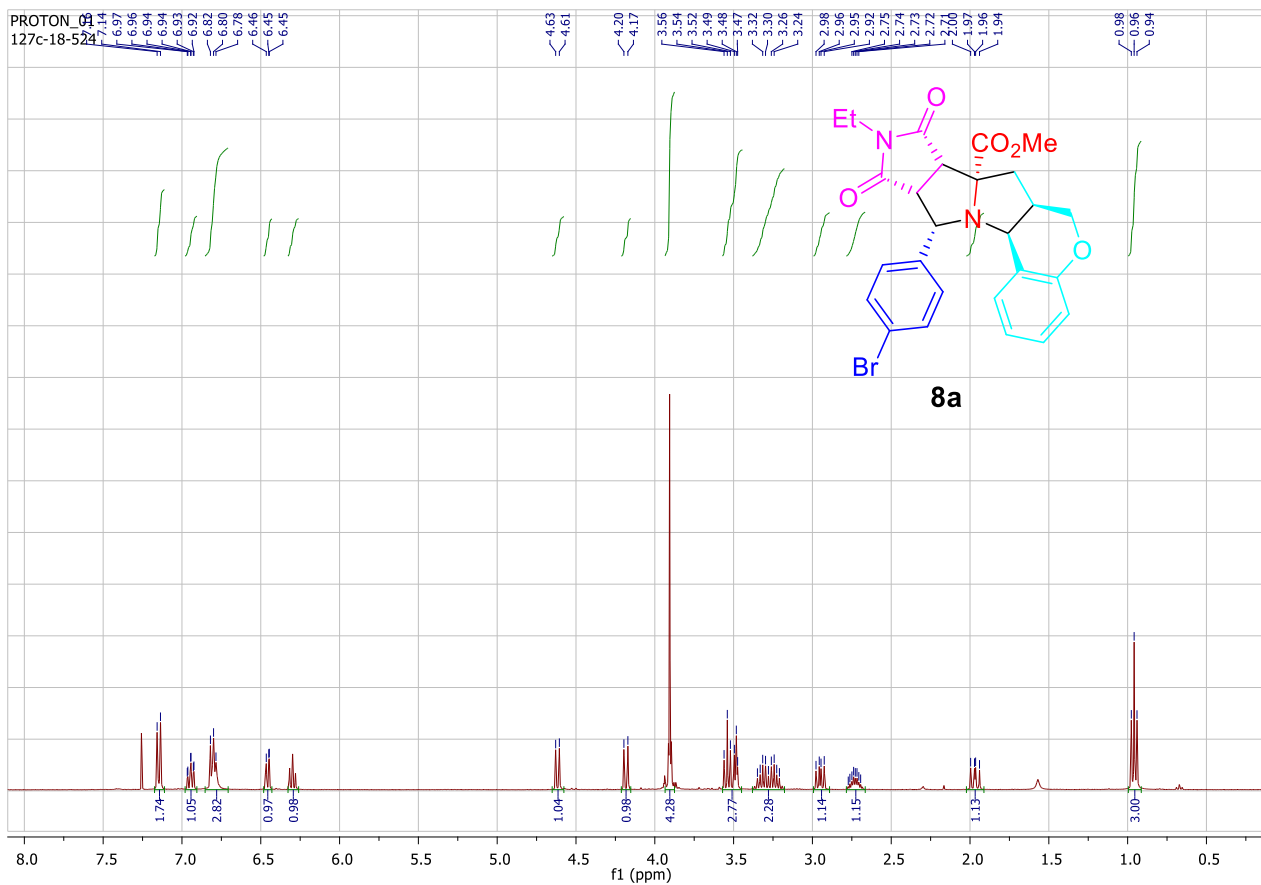


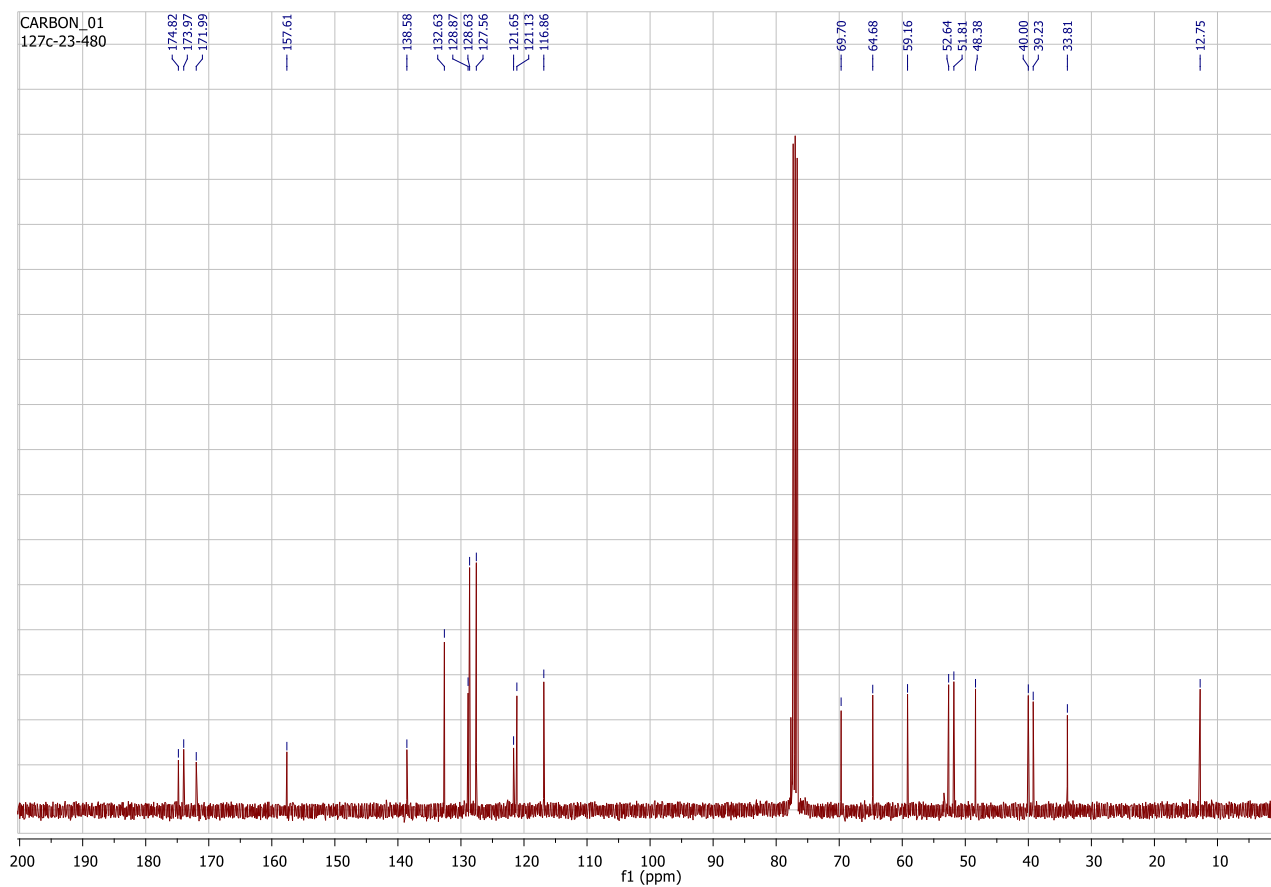
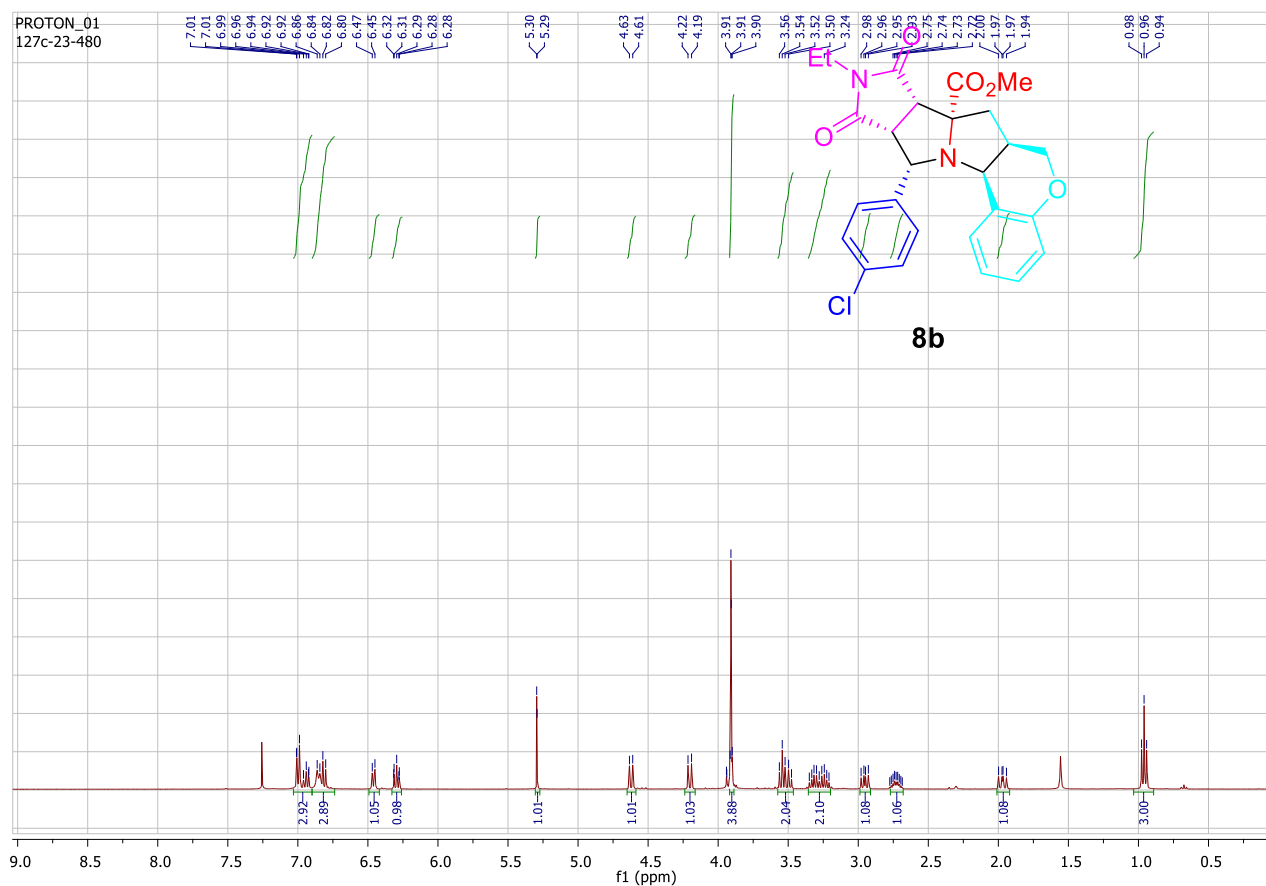


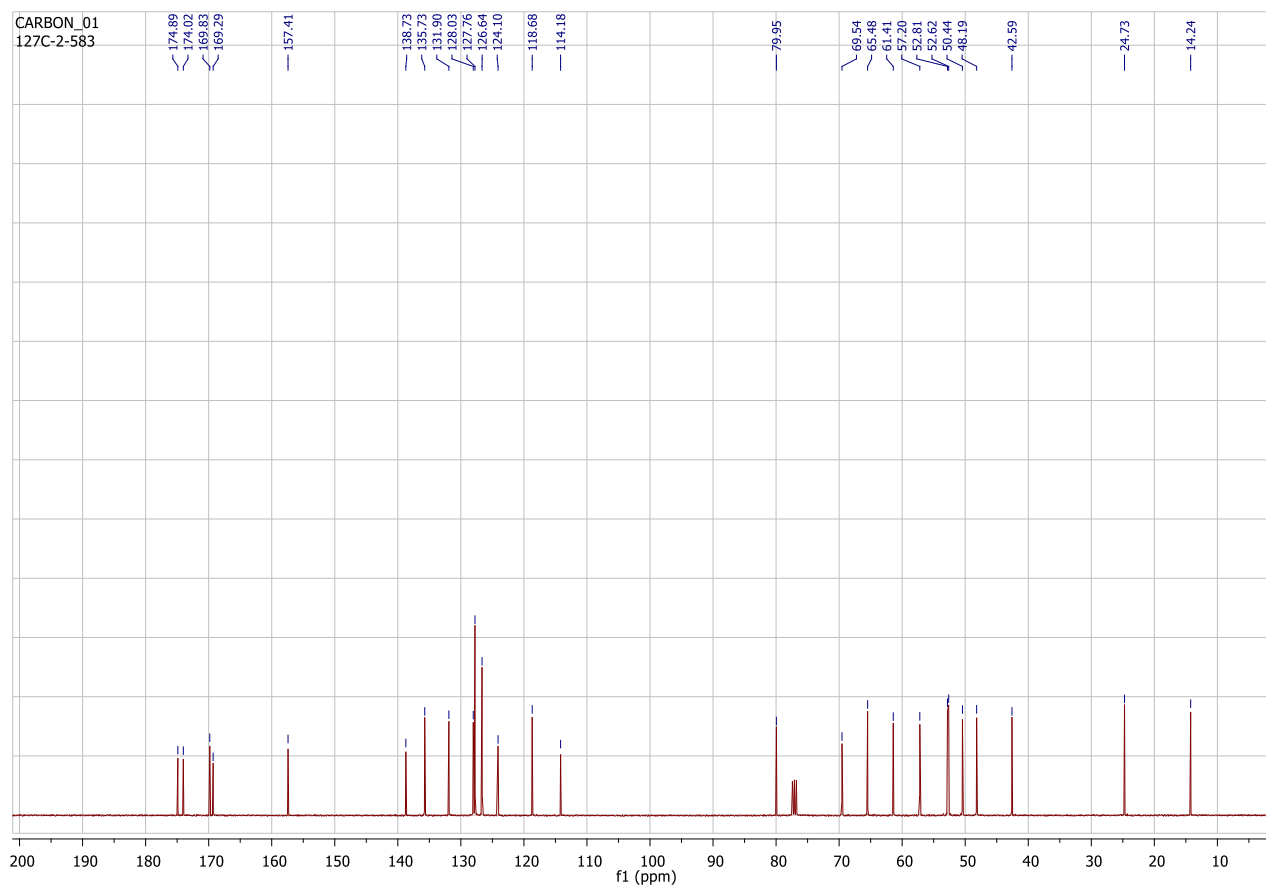
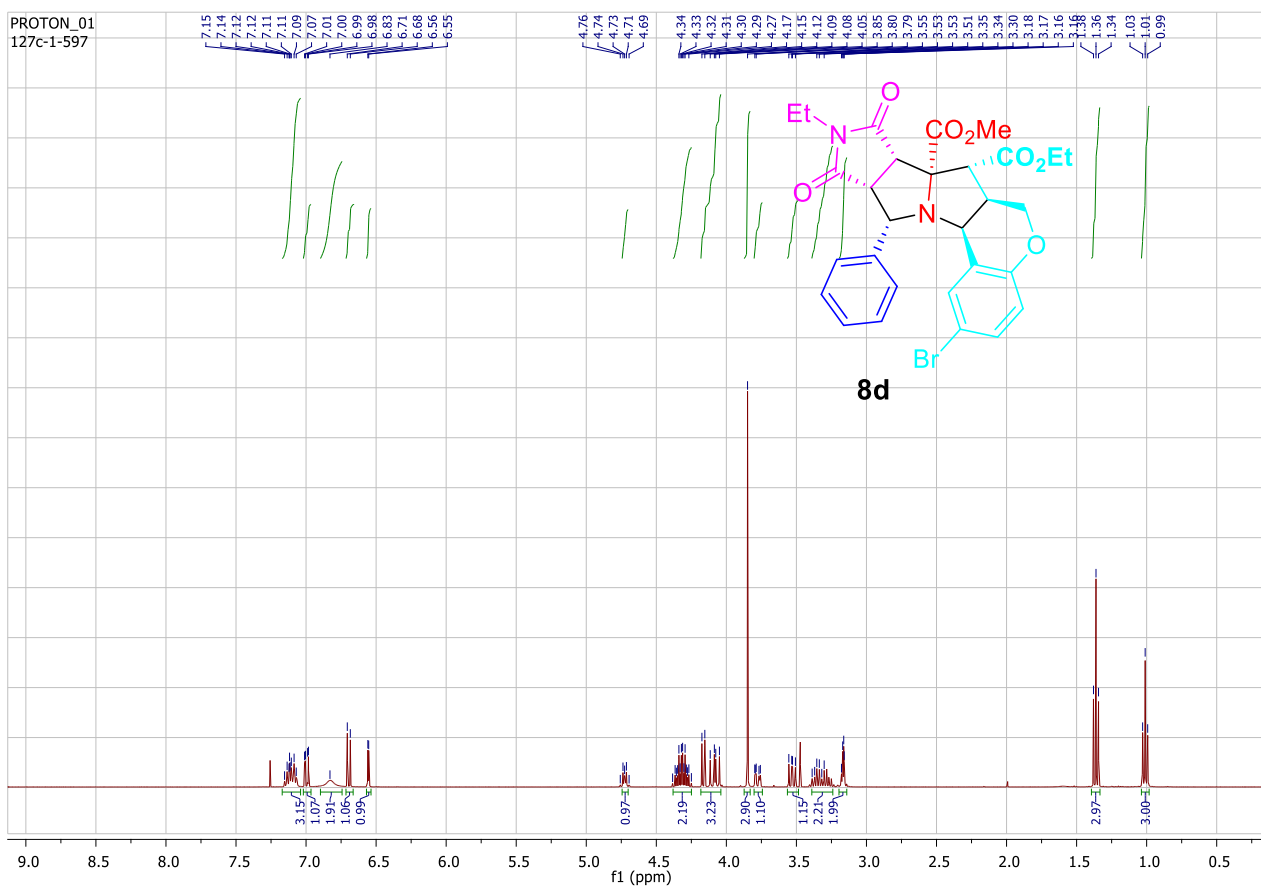


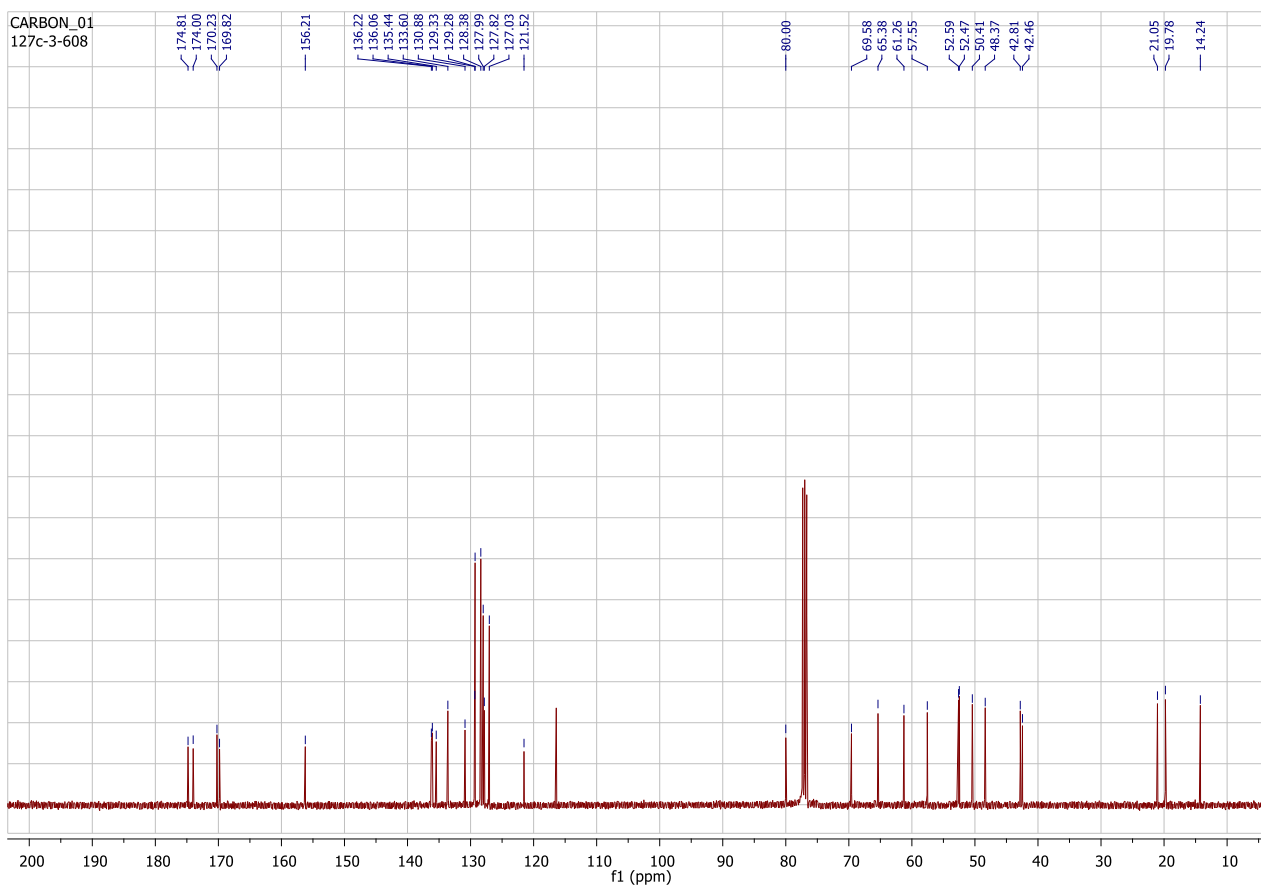
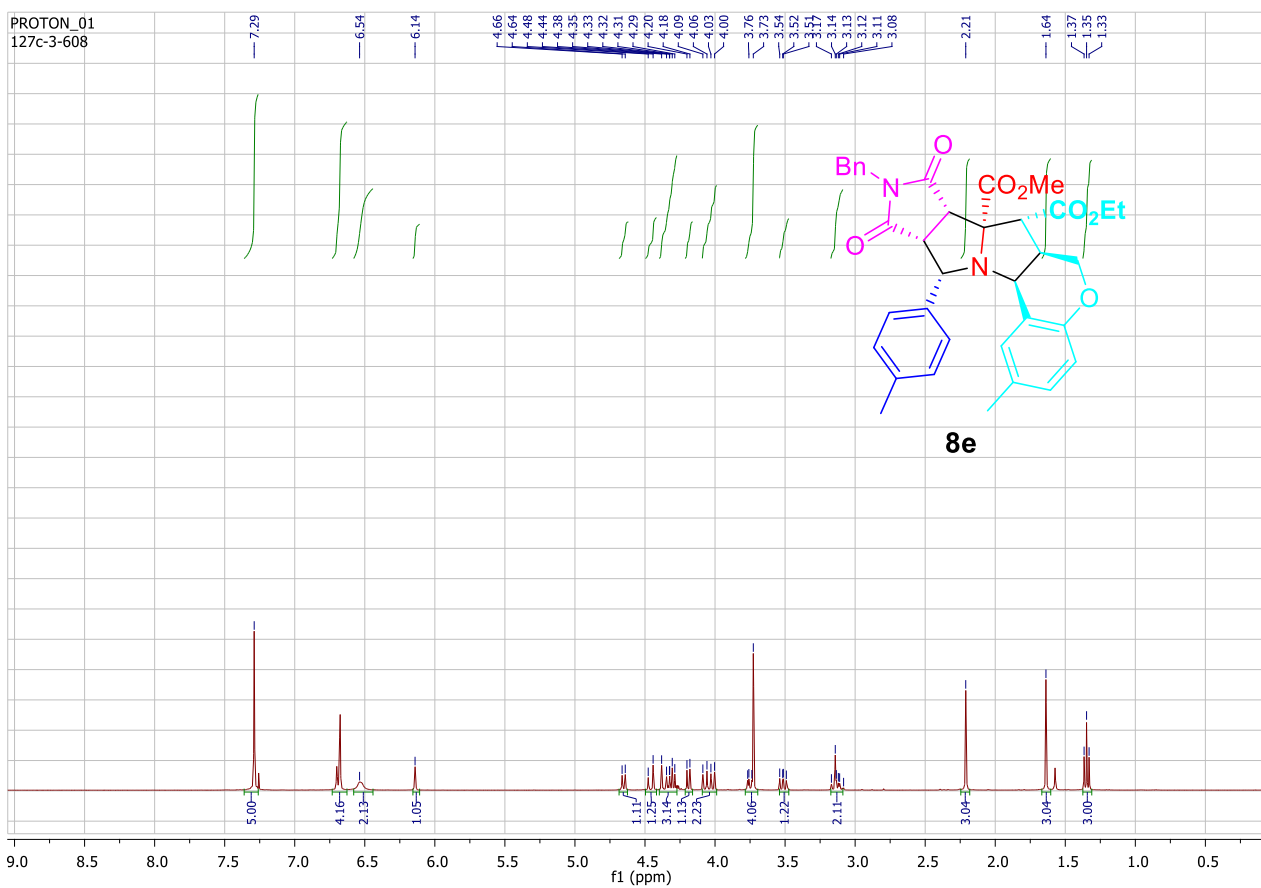


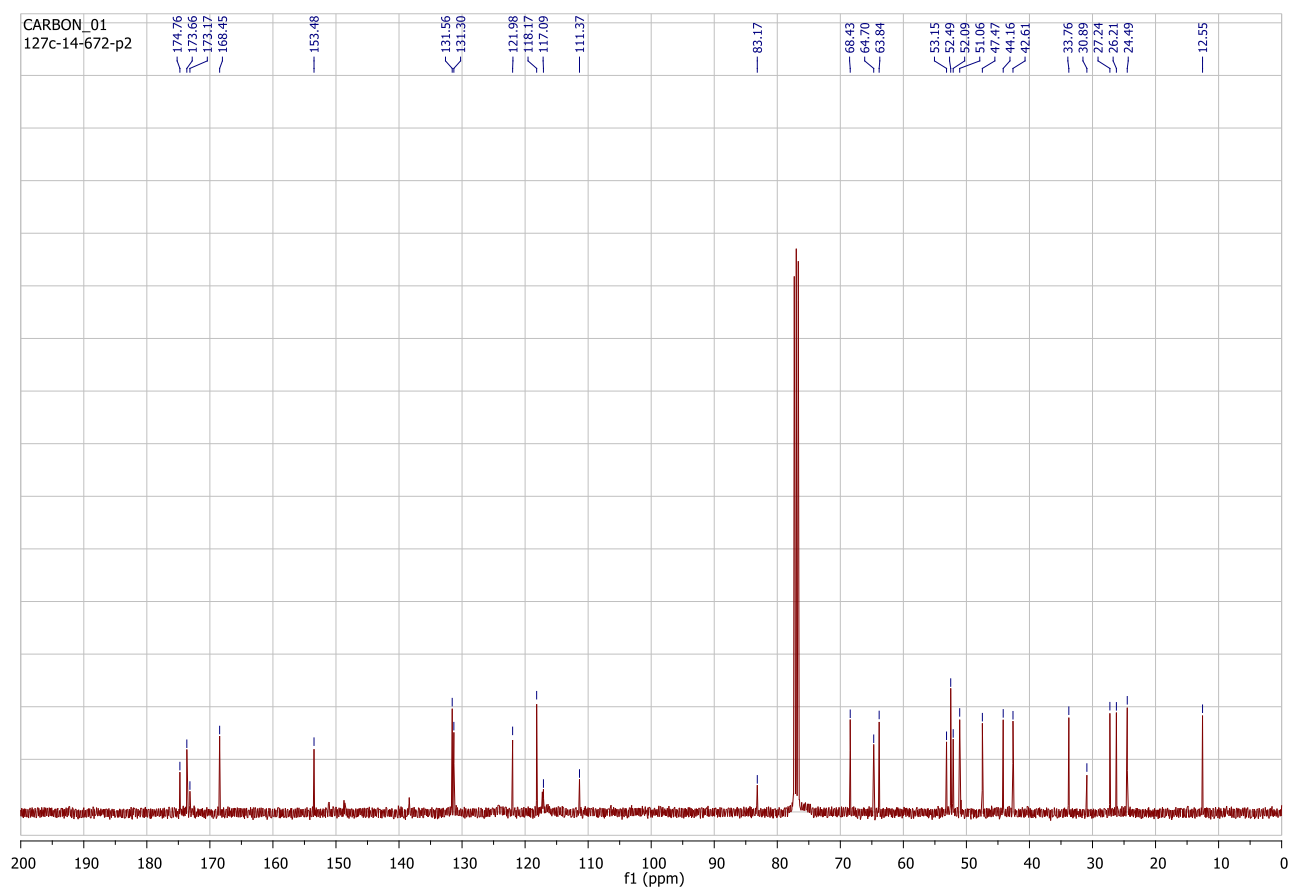
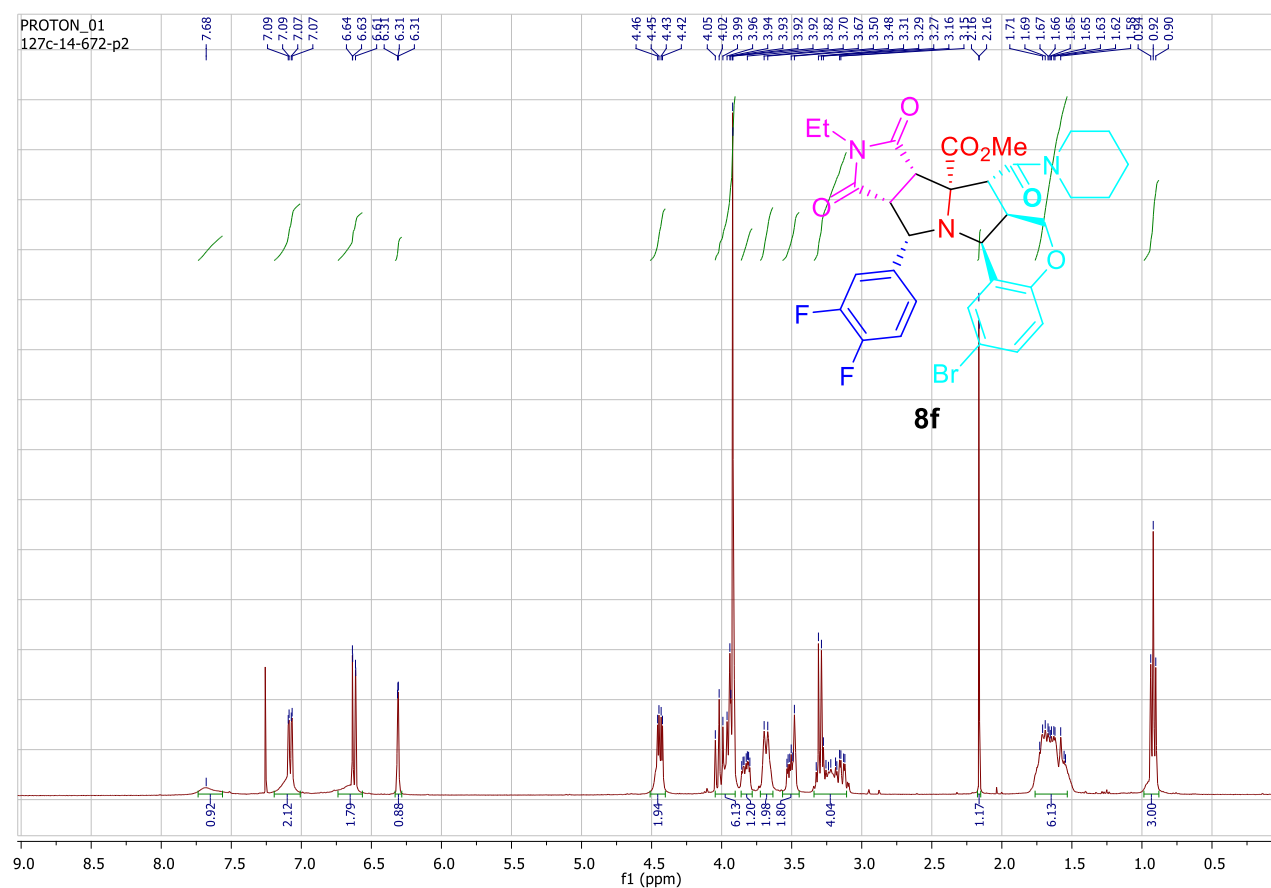


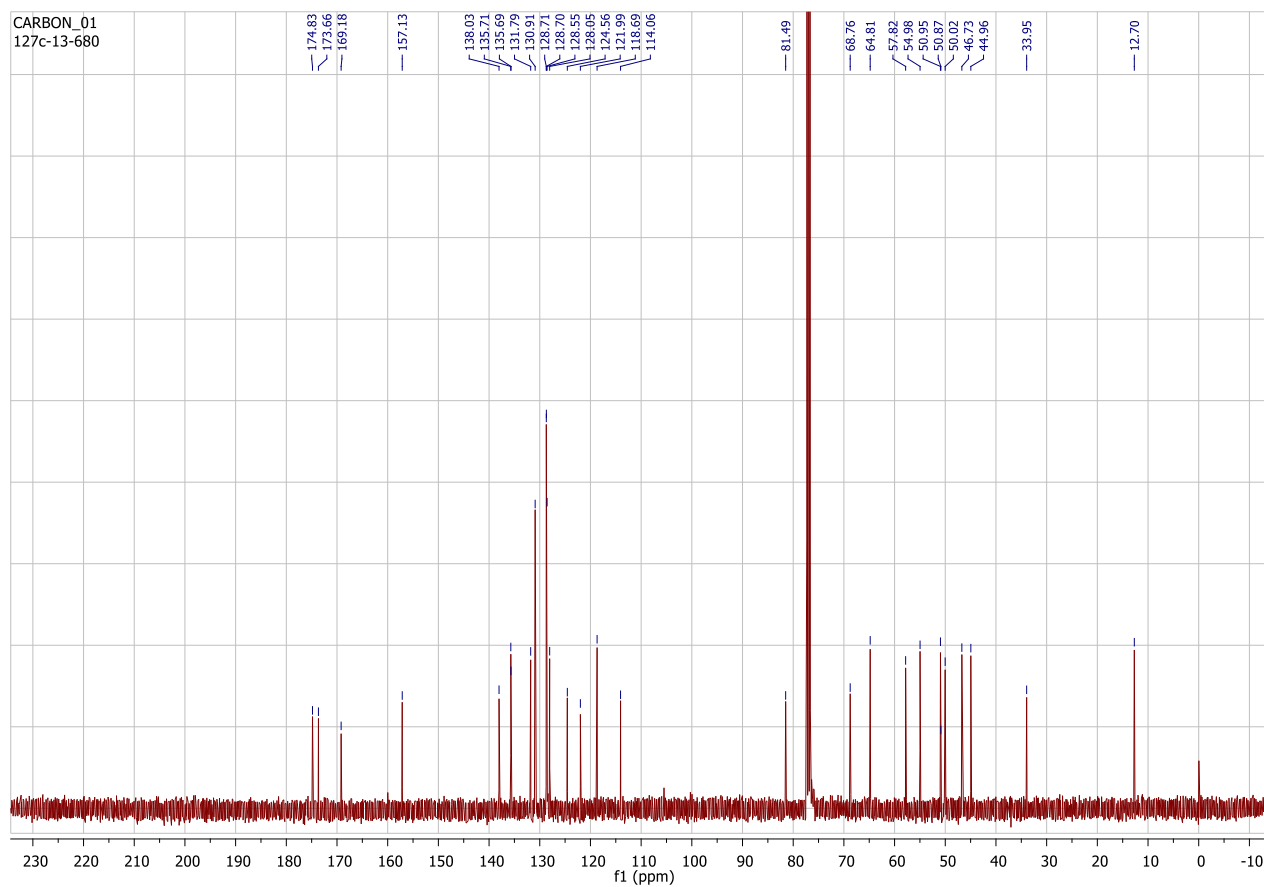
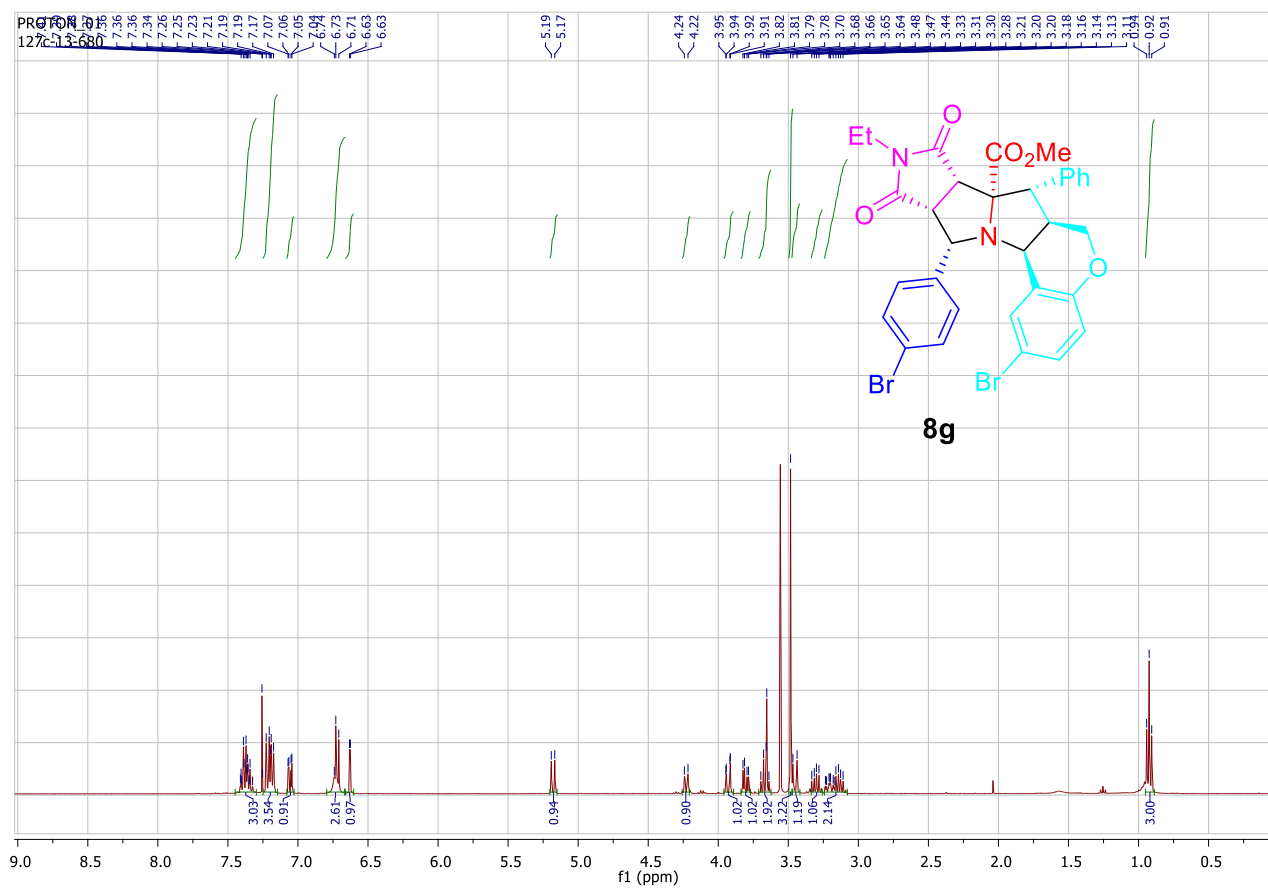


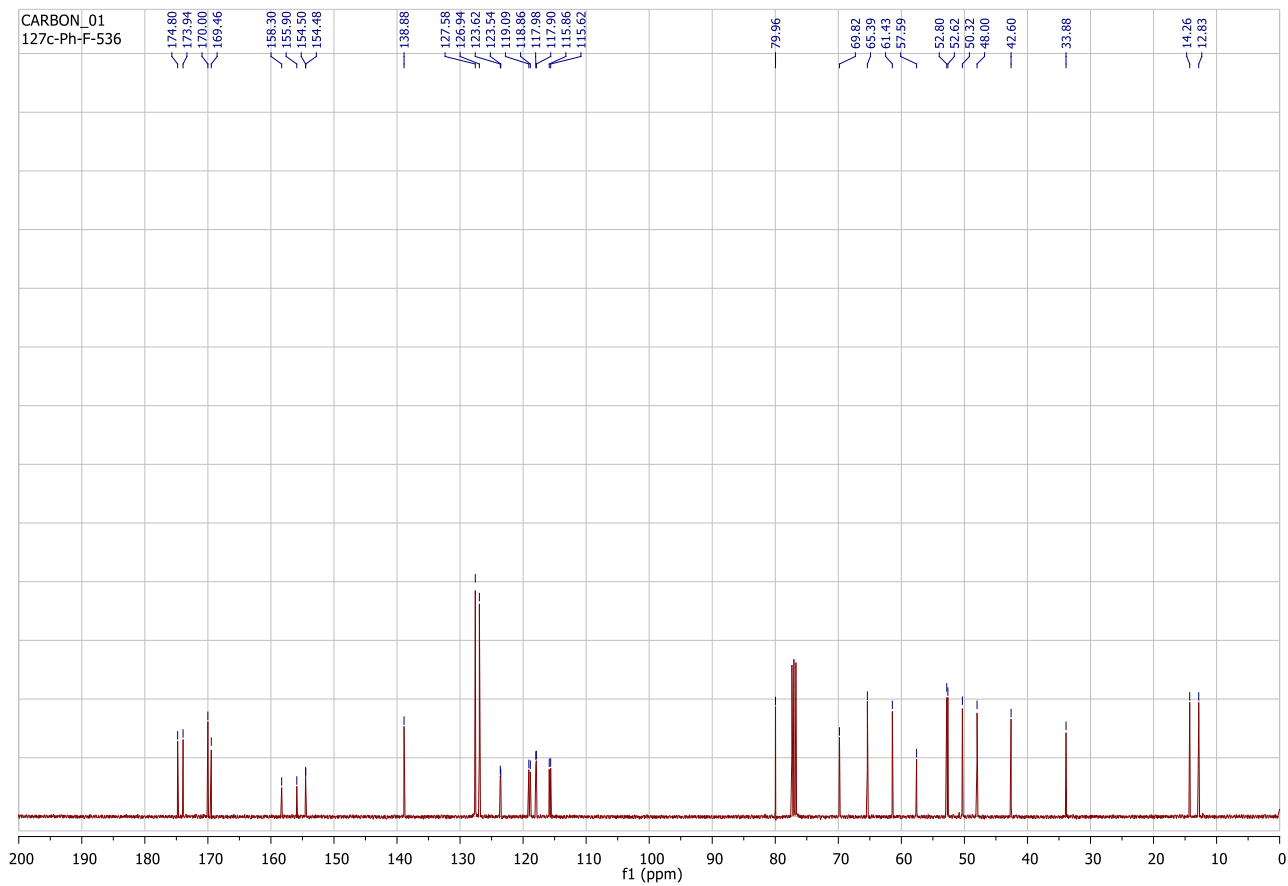
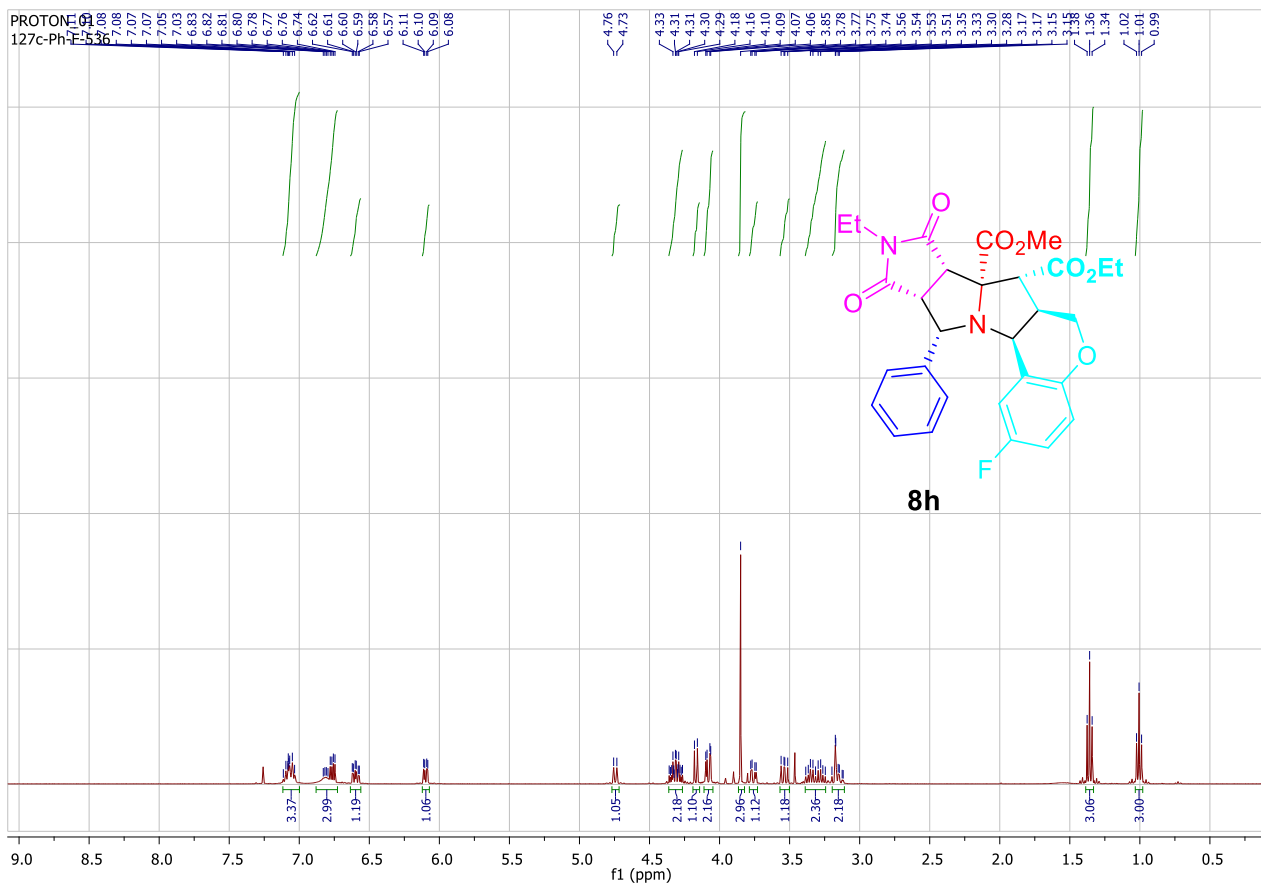


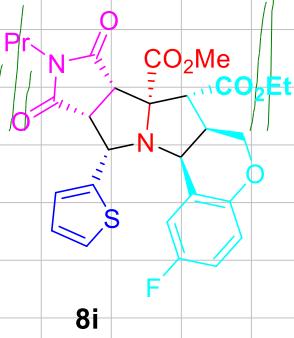


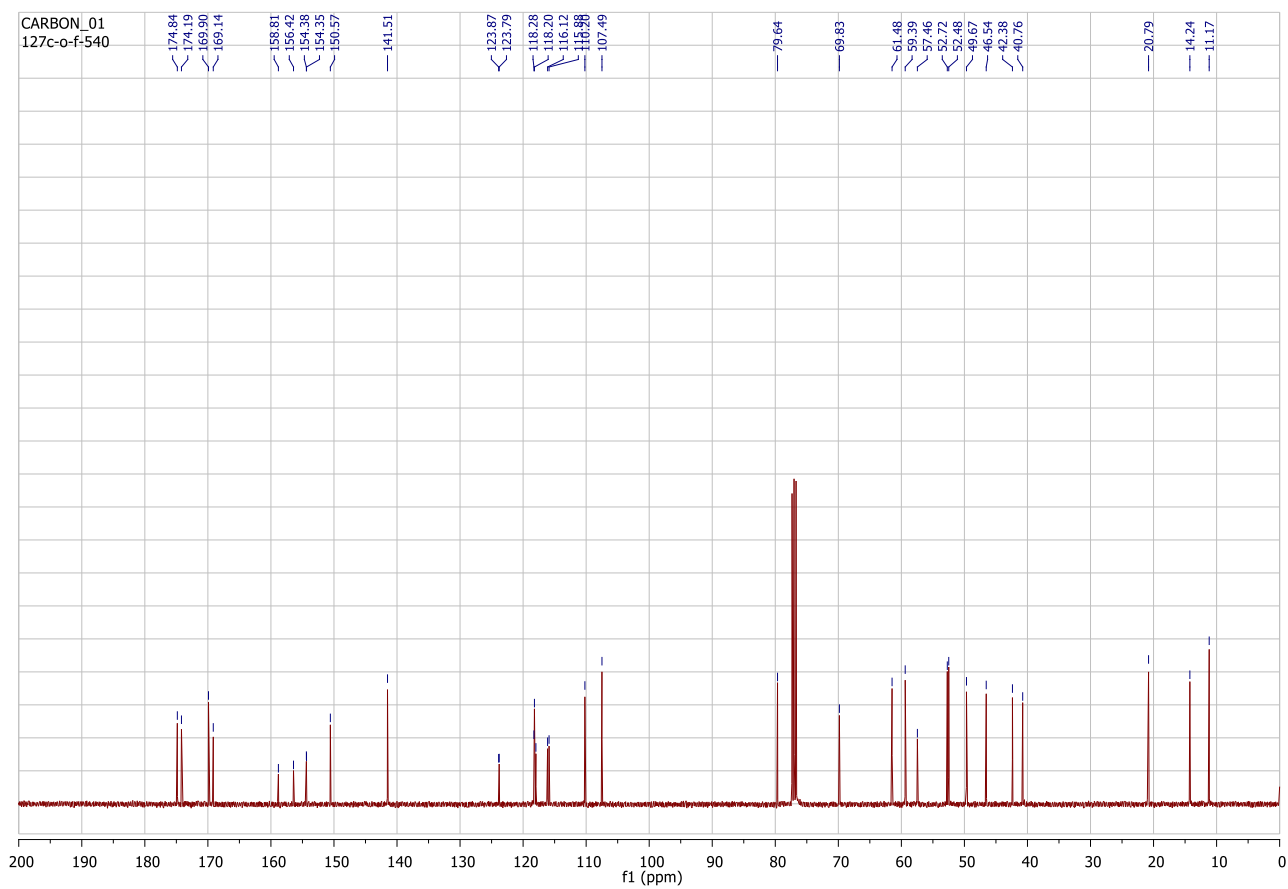
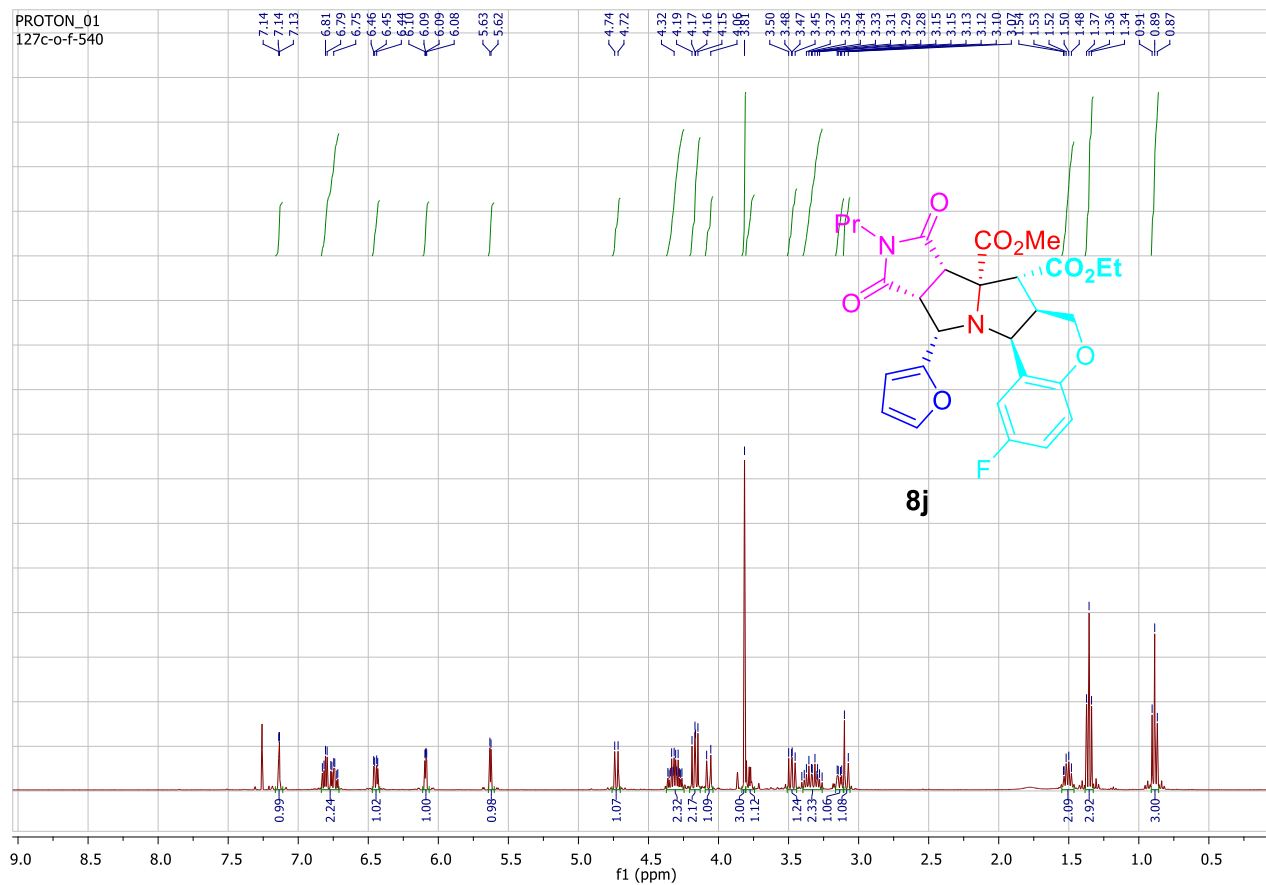






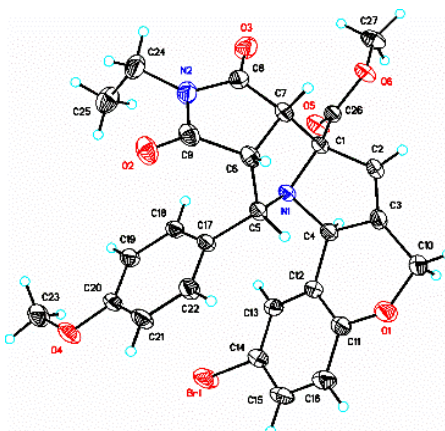






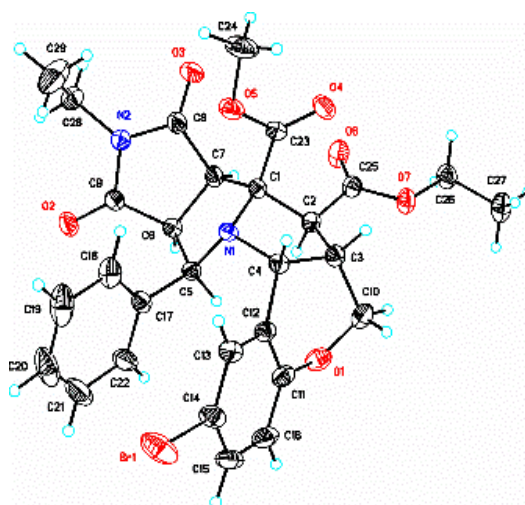
2. X-Ray Crystal Structure Analysis of 6g and 8d

X-ray crystal structure of compound **6g** (Ellipsoid contour probability 30%)



complex	6g
Formula	$\text{C}_{27}\text{H}_{25}\text{BrN}_2\text{O}_6$
Formula weight	553.40
Crystal system	triclinic
space group	<i>P</i> -1
<i>a</i> (Å)	6.1480(3)
<i>b</i> (Å)	9.3553(7)
<i>c</i> (Å)	21.4639(14)
α (°)	97.508(6)
β (°)	91.047(5)
γ (°)	93.474(5)
Volume(Å ³)	1221.27(13)
<i>Z</i>	2
<i>T</i> (K)	293(2)
<i>D</i> _{calcd} (g/m ³)	1.505
<i>F</i> (000)	568
Crystal size/mm ³	0.24 × 0.12 × 0.08
Radiation	CuKα (λ = 1.54184)
2 θ range for data collection/°	8.312 to 142.384
Index ranges	-5 ≤ <i>h</i> ≤ 7, -11 ≤ <i>k</i> ≤ 11, -23 ≤ <i>l</i> ≤ 26
Reflections collected	8057
Goodness-of-fit on <i>F</i> ²	1.037
Largest diff. peak/hole / e Å ⁻³	0.55/-0.51
Data/restraints/parameters	4658/0/329
CCDC NO.	1852574

X-ray crystal structure of compound **8d** (Ellipsoid contour probability 30%)



complex	8d
Formula	$\text{C}_{29}\text{H}_{29}\text{BrN}_2\text{O}_7$
Formula weight	597.45
Crystal system	monoclinic
space group	$P2_1/n$
a (Å)	14.6471(3)
b (Å)	9.8270(2)
c (Å)	19.3981(3)
α (°)	90
β (°)	104.564(2)
γ (°)	90
Volume(Å ³)	2702.39(9)
Z	4
T (K)	293(2)
D_{calcd} (g/m ³)	1.468
$F(000)$	1232
Crystal size/mm ³	$0.36 \times 0.24 \times 0.22$
Radiation	$\text{CuK}\alpha$ ($\lambda = 1.54184$)
2θ range for data collection/°	6.802 to 142.666
Index ranges	$-18 \leq h \leq 17, -9 \leq k \leq 11, -17 \leq l \leq 23$
Reflections collected	11287
Goodness-of-fit on F^2	1.037
Largest diff. peak/hole / e Å ⁻³	0.63/-0.61
Data/restraints/parameters	5160/0/356
CCDC NO.	1852575