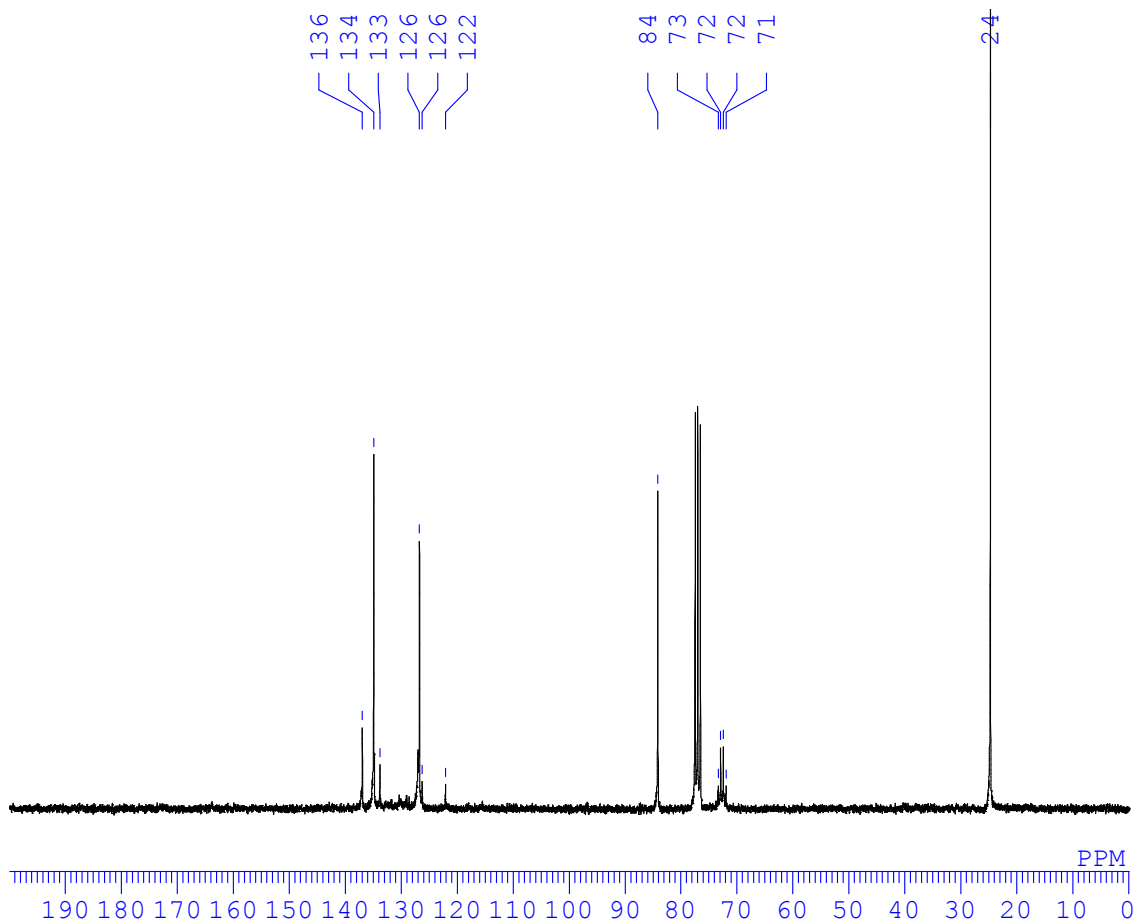
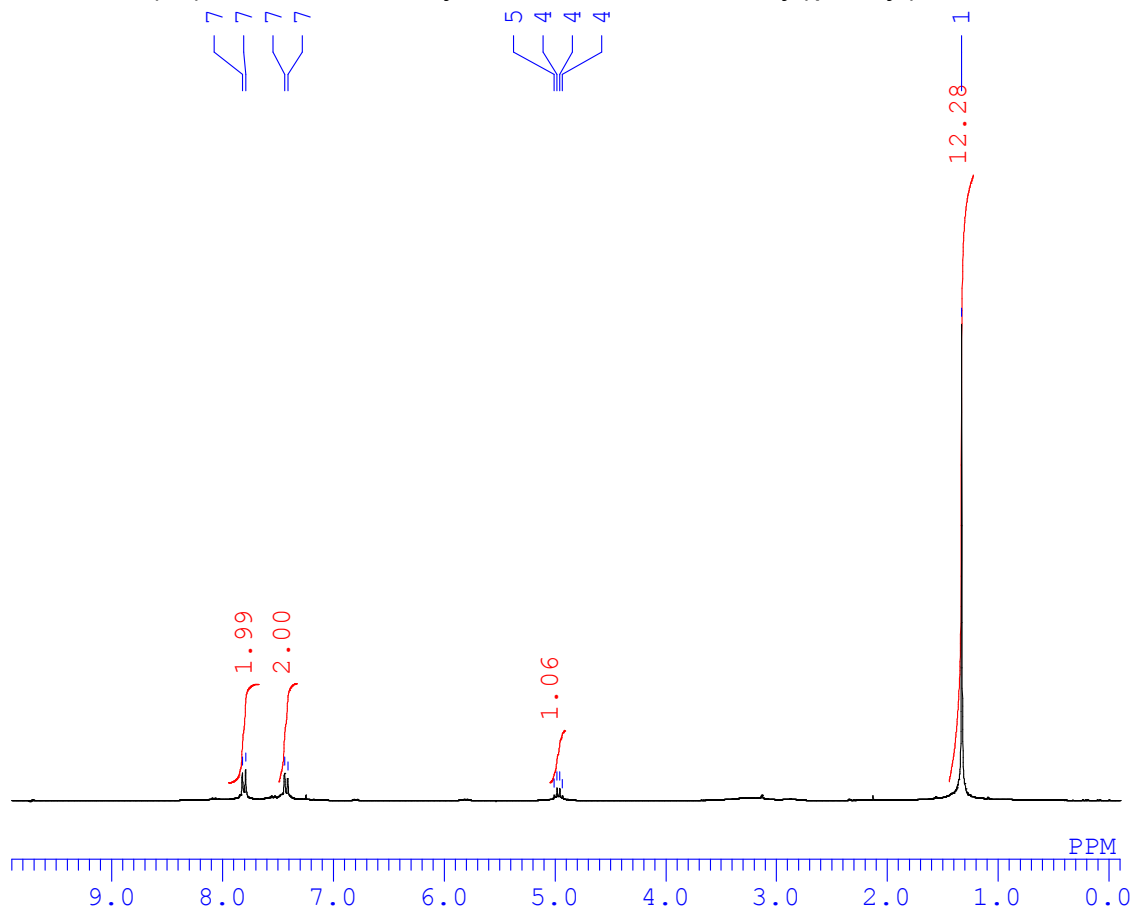
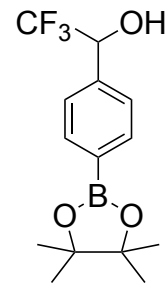


Supporting Information

**Synthesis of trifluoromethyldiaziriny phenylboronic acid derivatives for photoaffinity labeling**

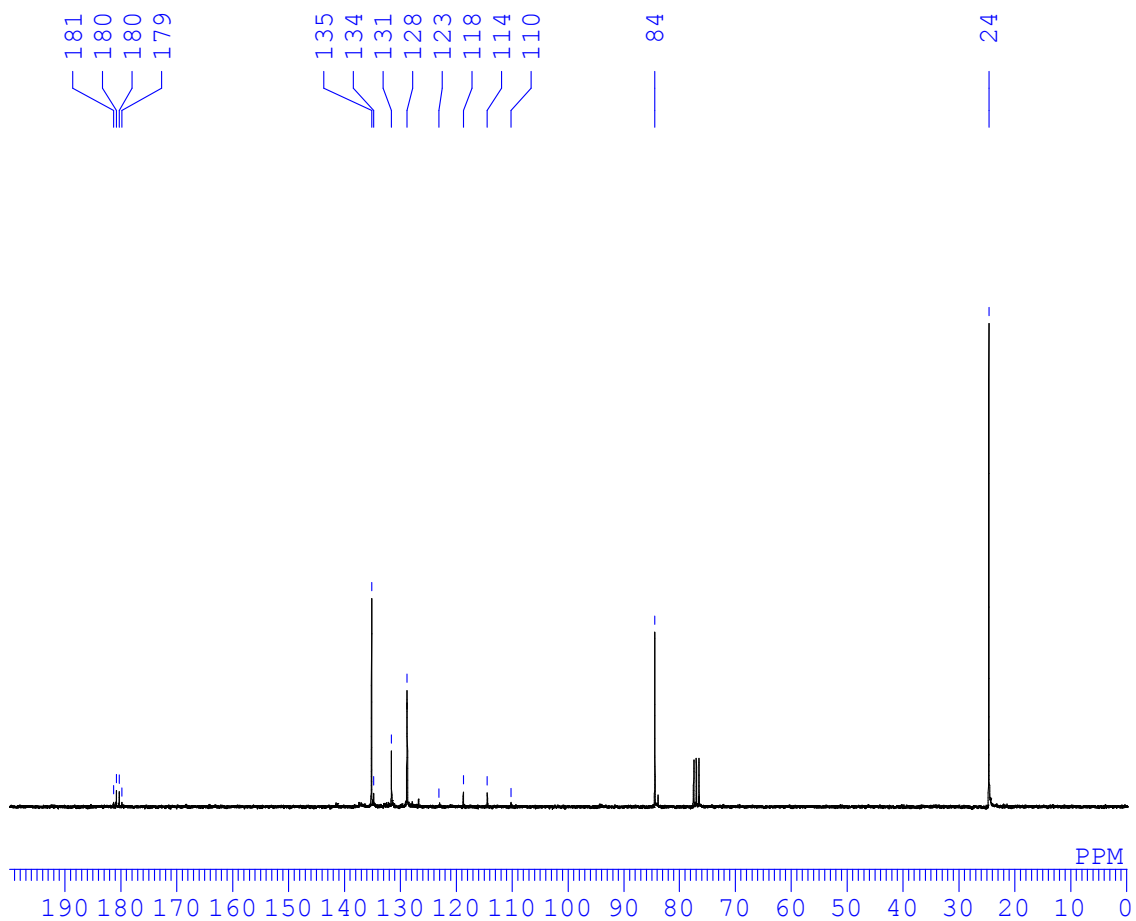
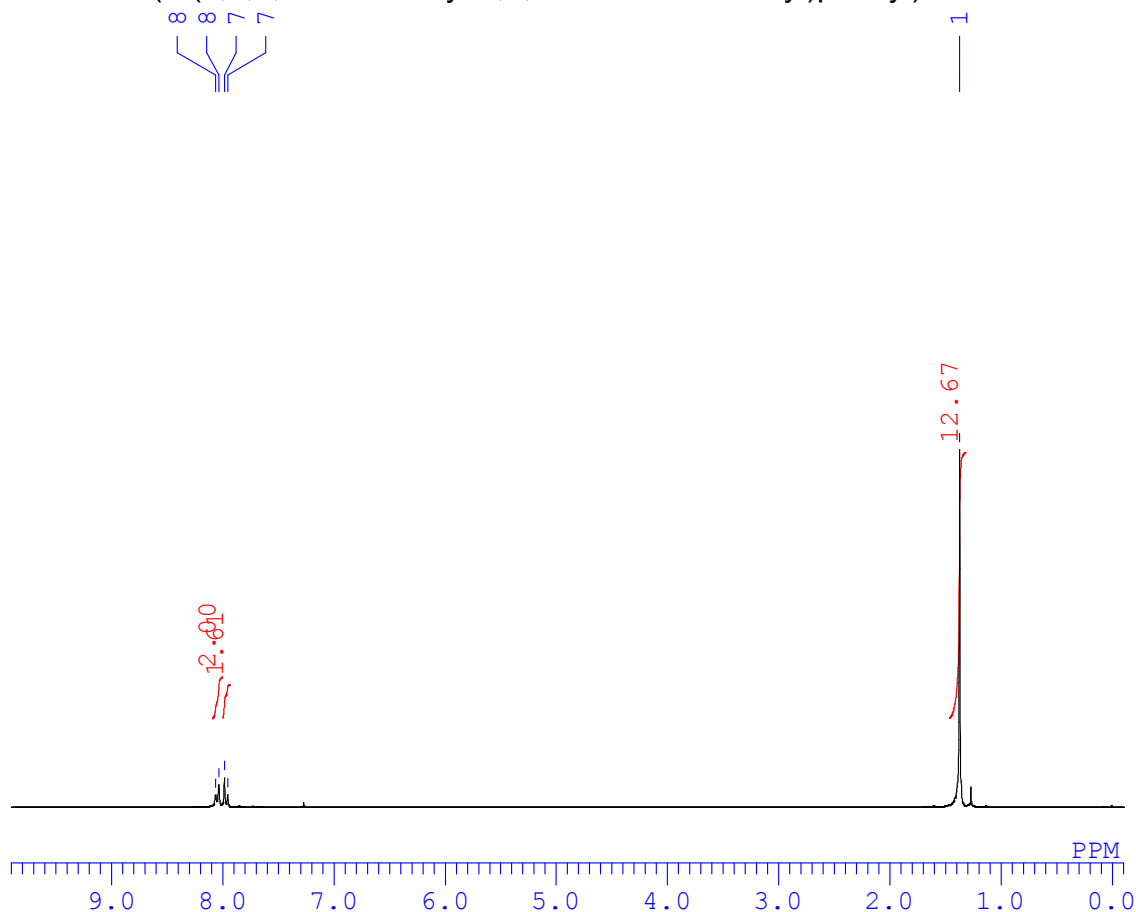
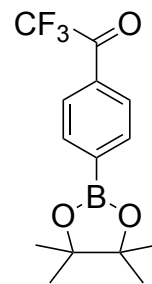
Manami Hashinoki, Natsumi Kurokawa, Yuta Murai, Zetryana Puteri Tachrim, Yasuko Sakihama, Takeyuki Suzuki, and Makoto Hashimoto\*

2,2,2-trifluoro-1-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)ethan-1-ol **2**

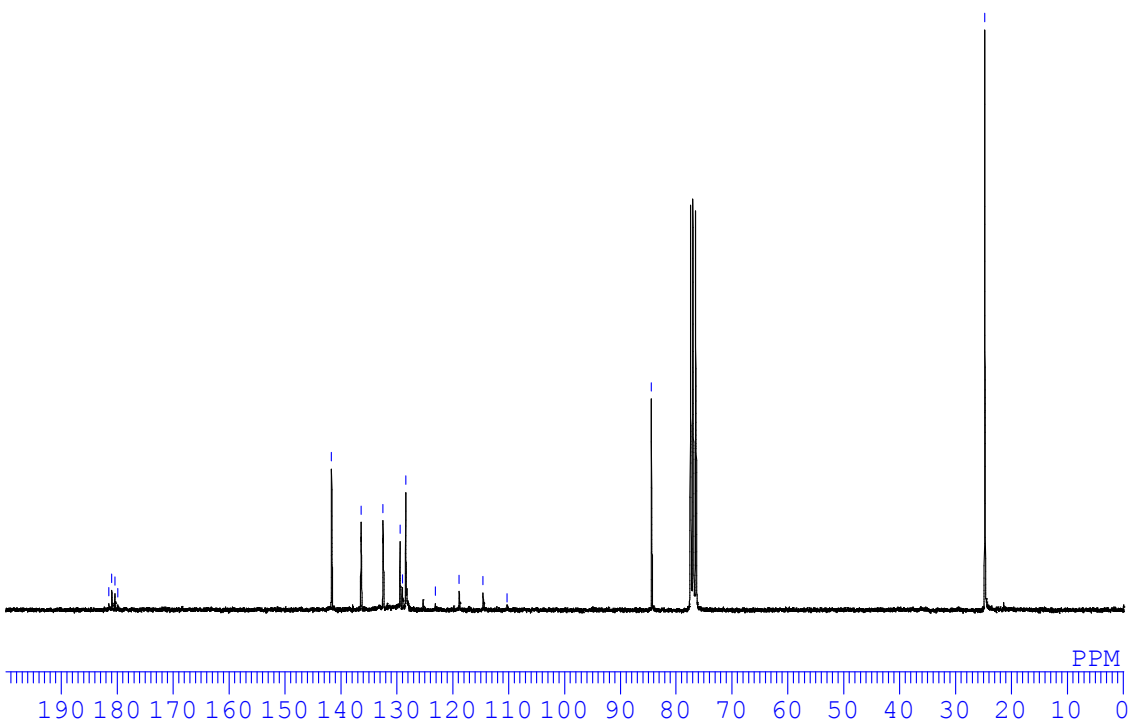
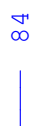
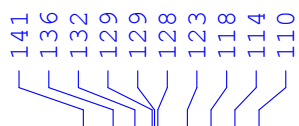
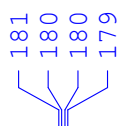
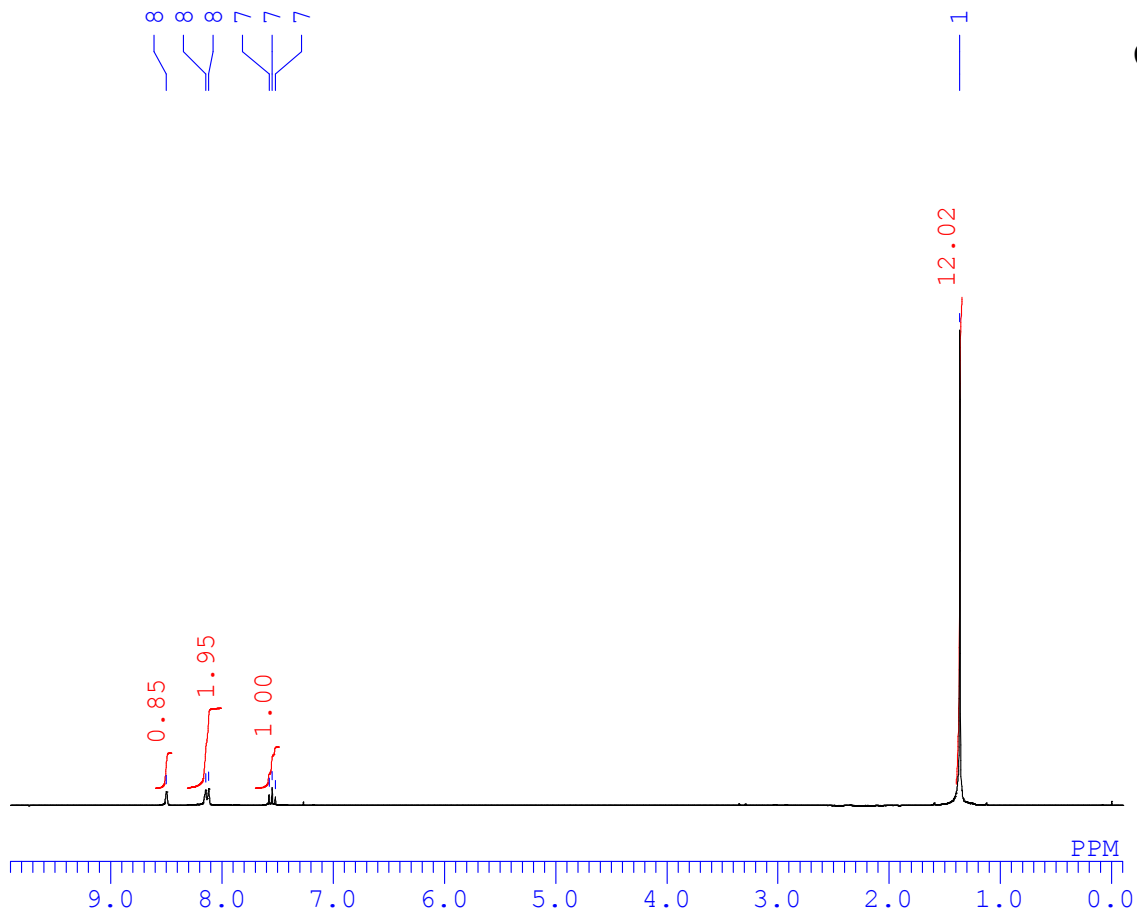
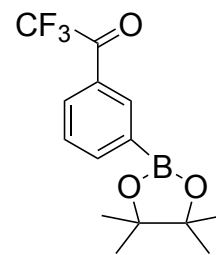
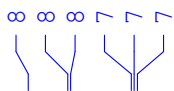




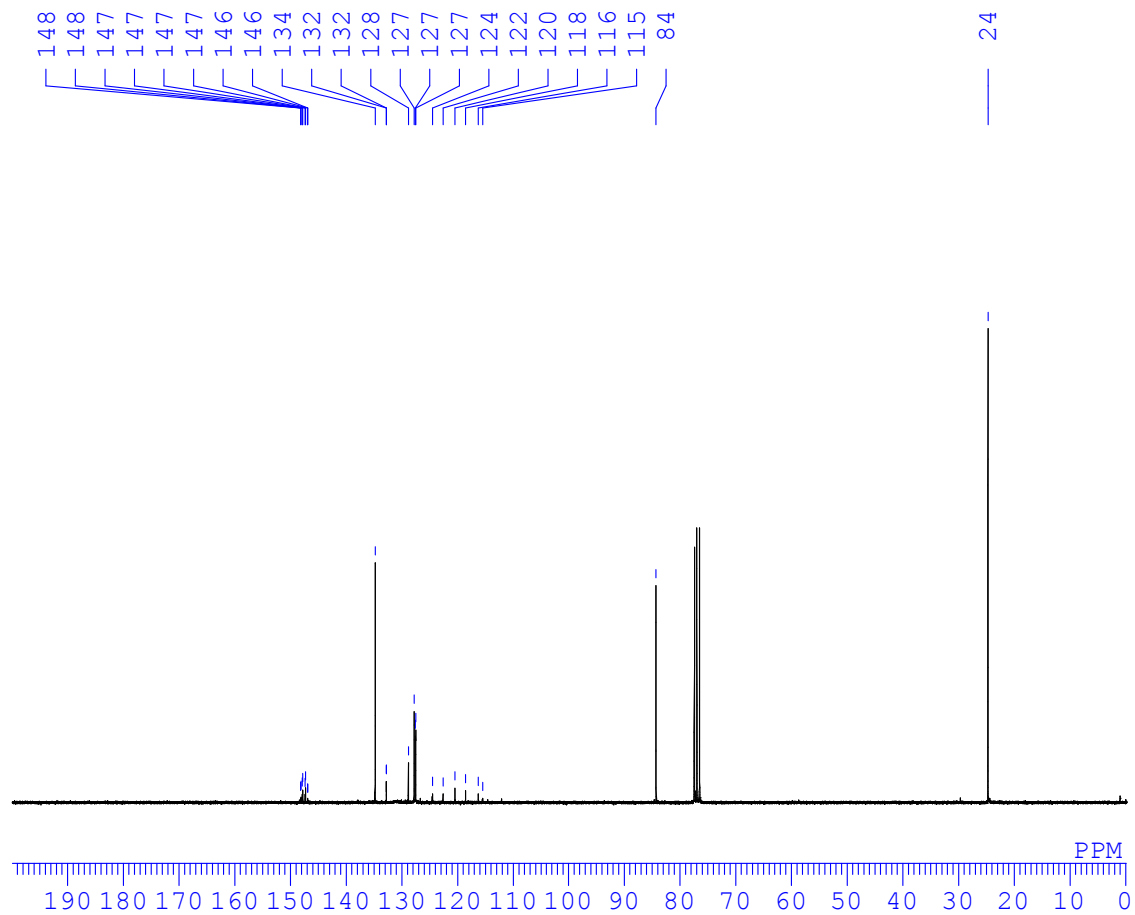
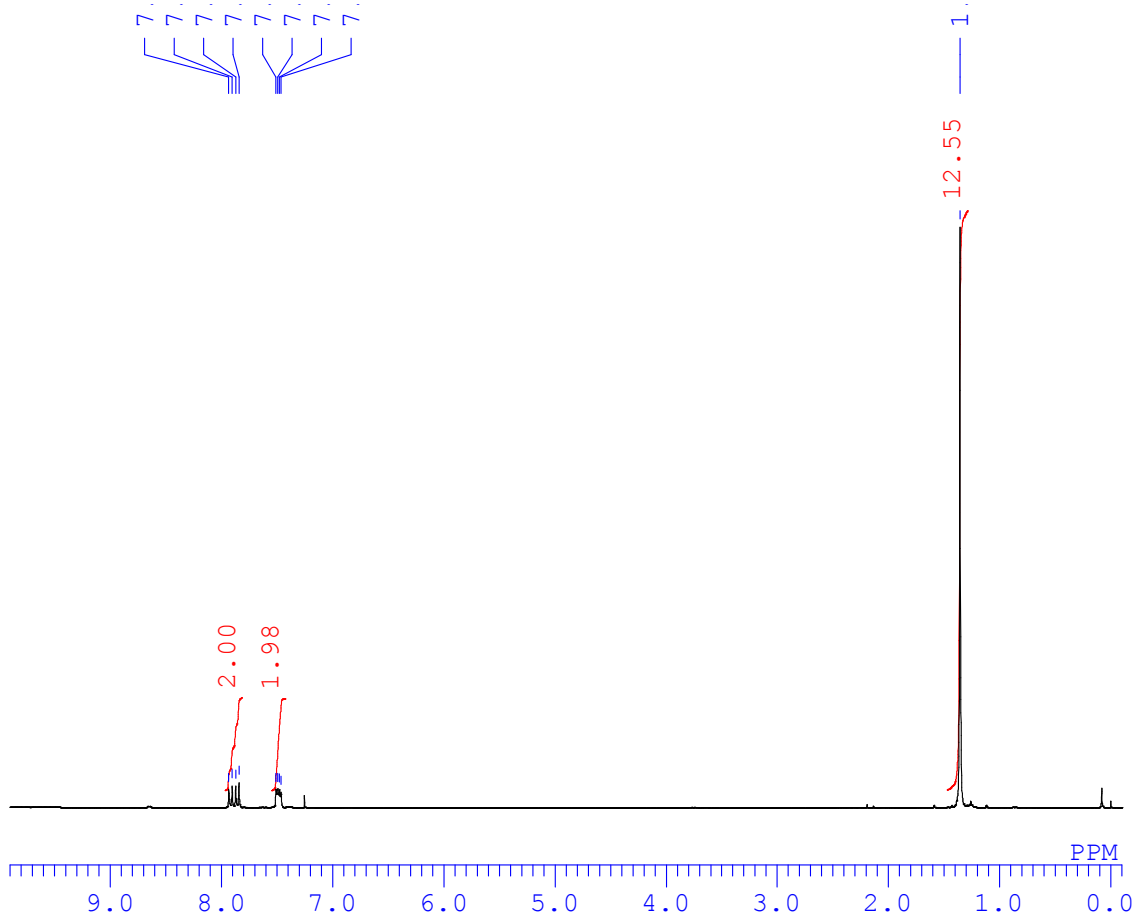
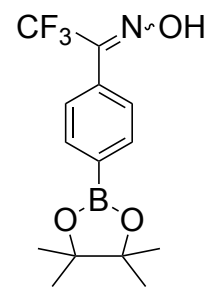
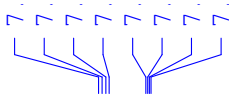
2,2,2-trifluoro-1-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)ethan-1-one **5**



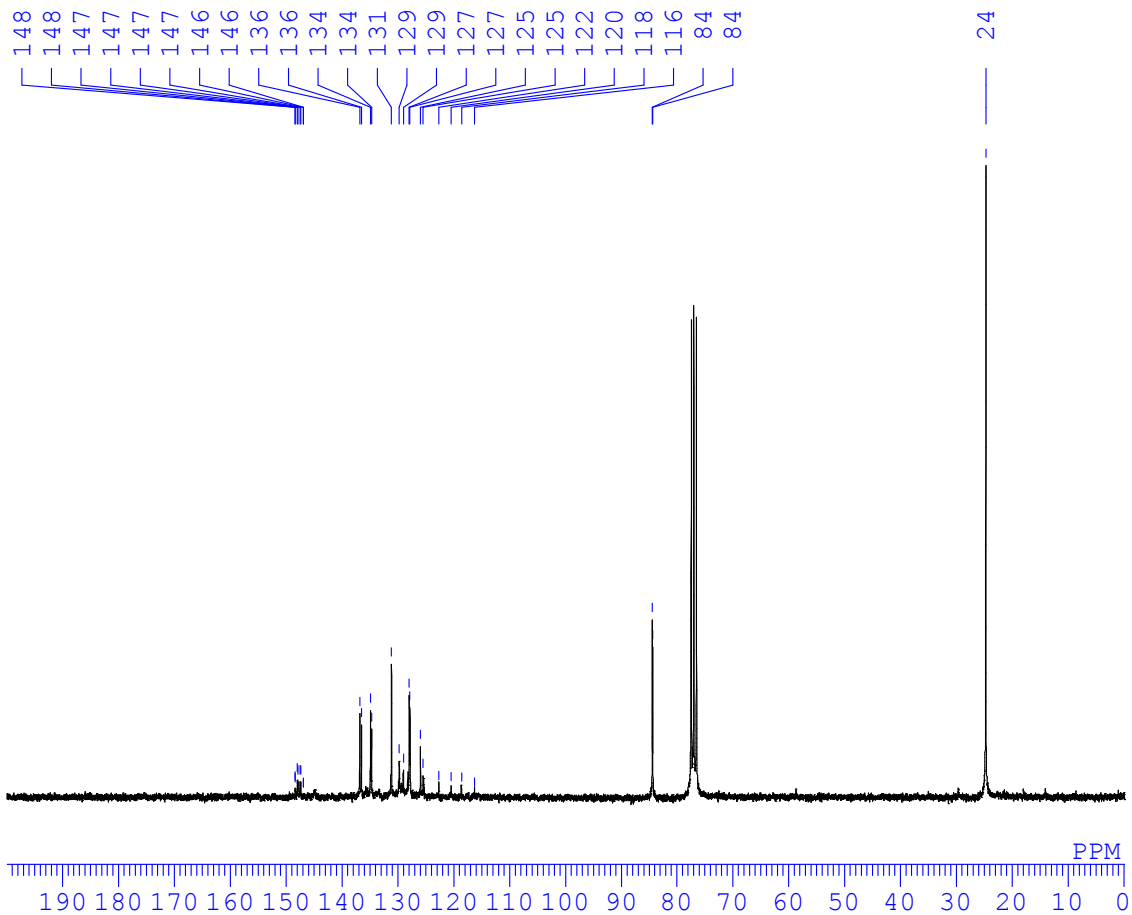
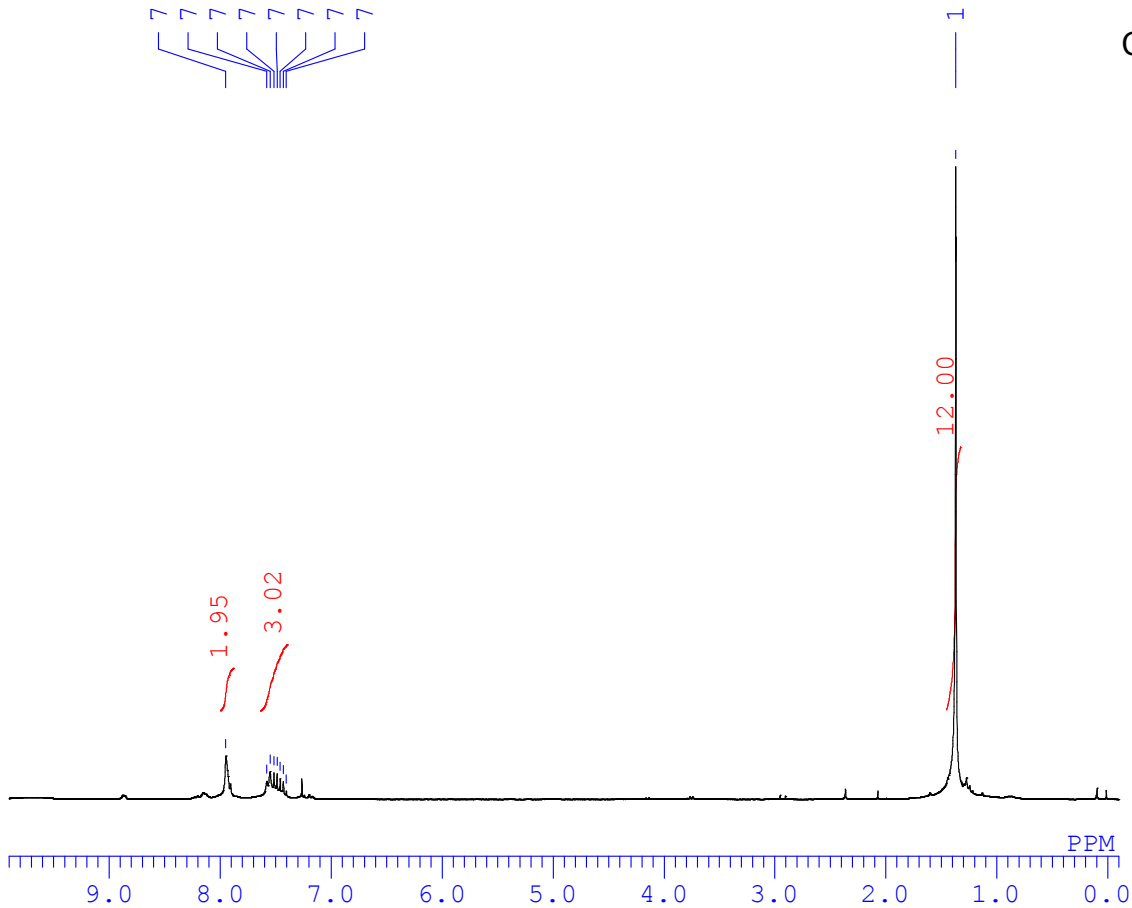
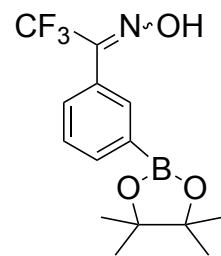
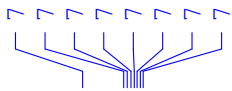
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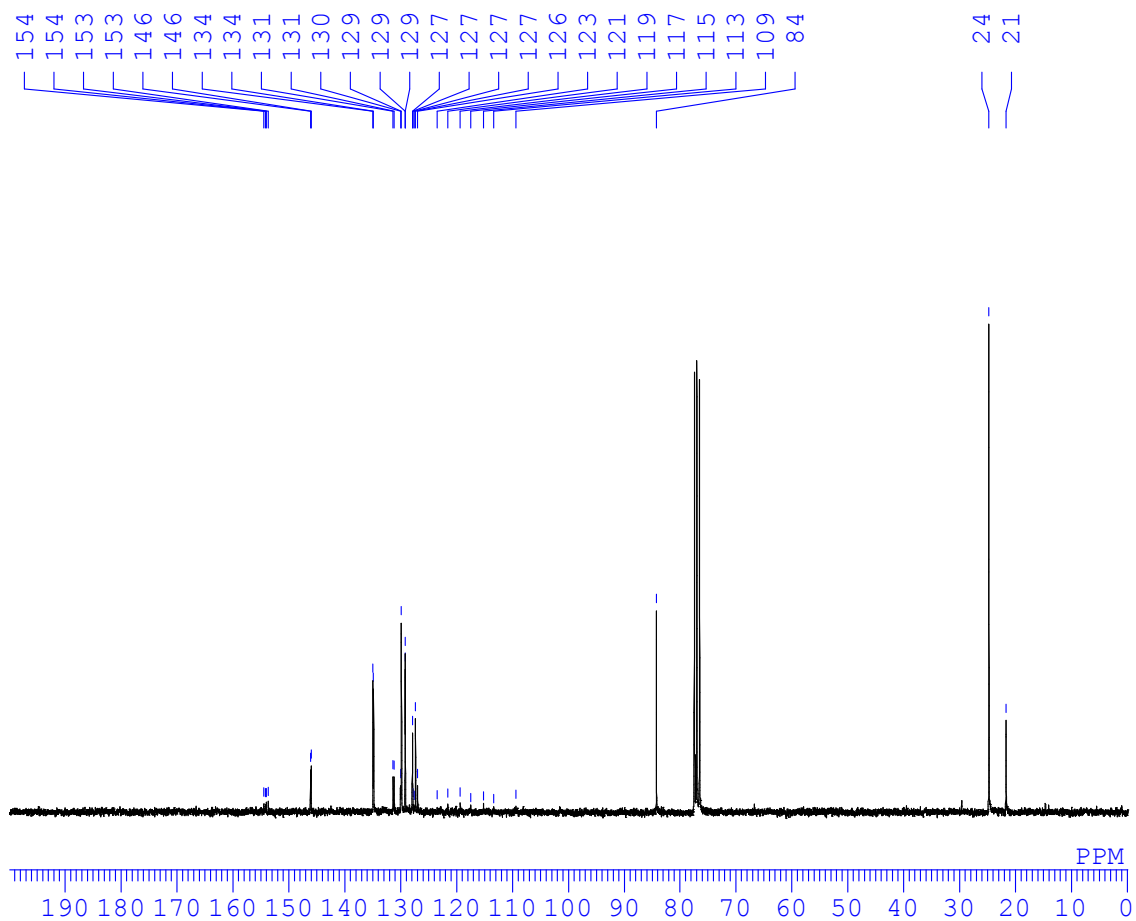
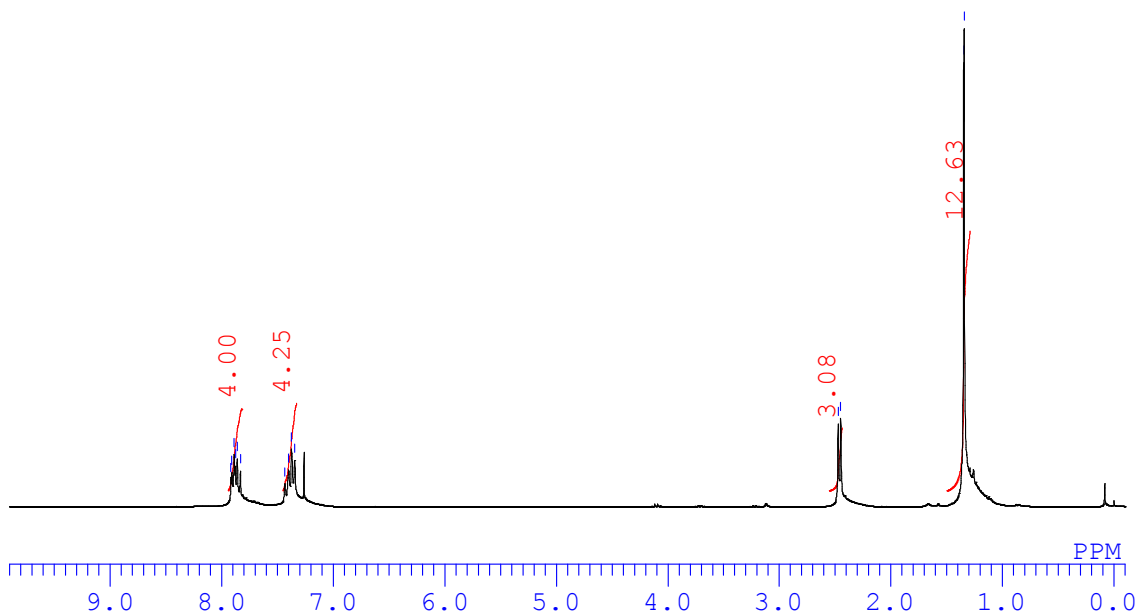
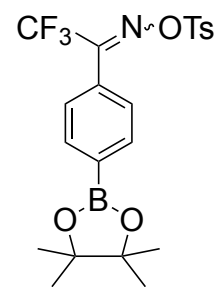
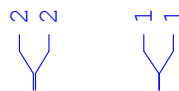
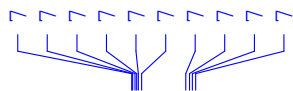
2,2,2-trifluoro-1-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)ethan-1-one oxime 7



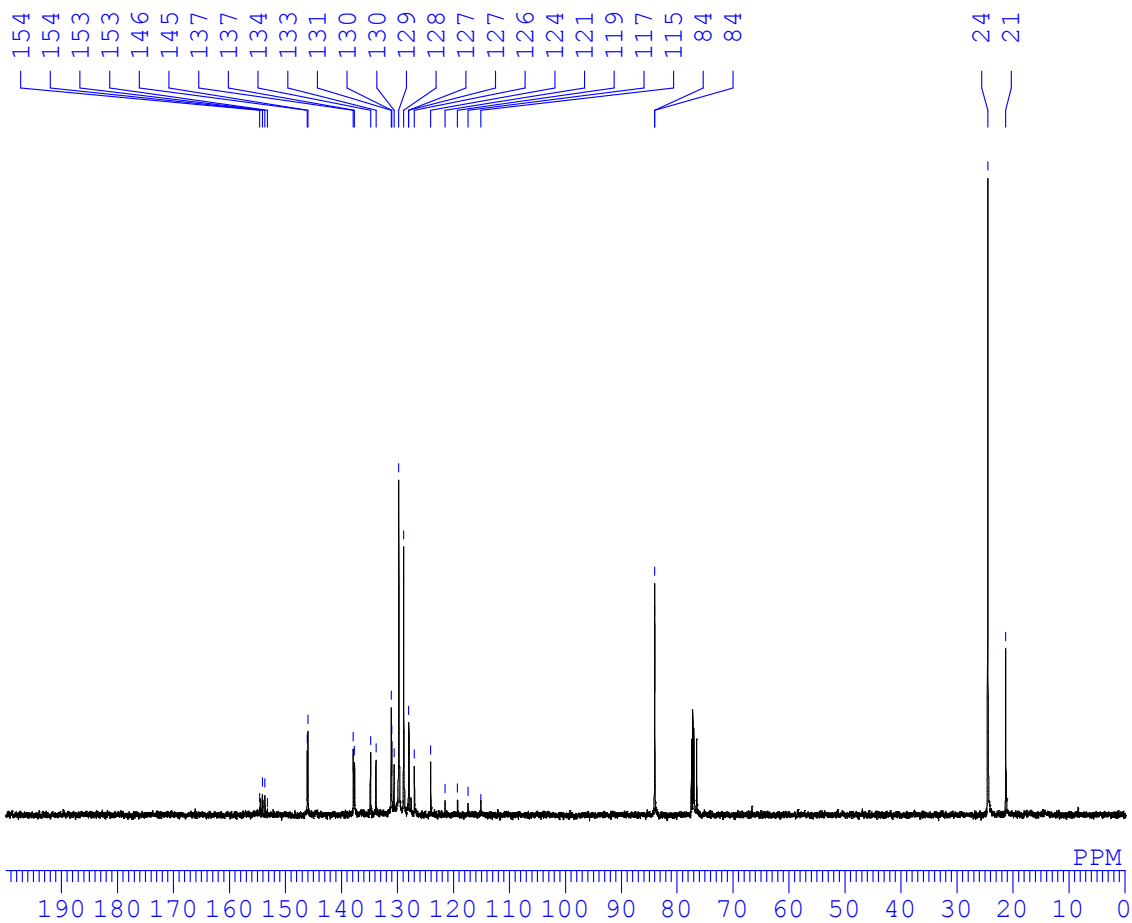
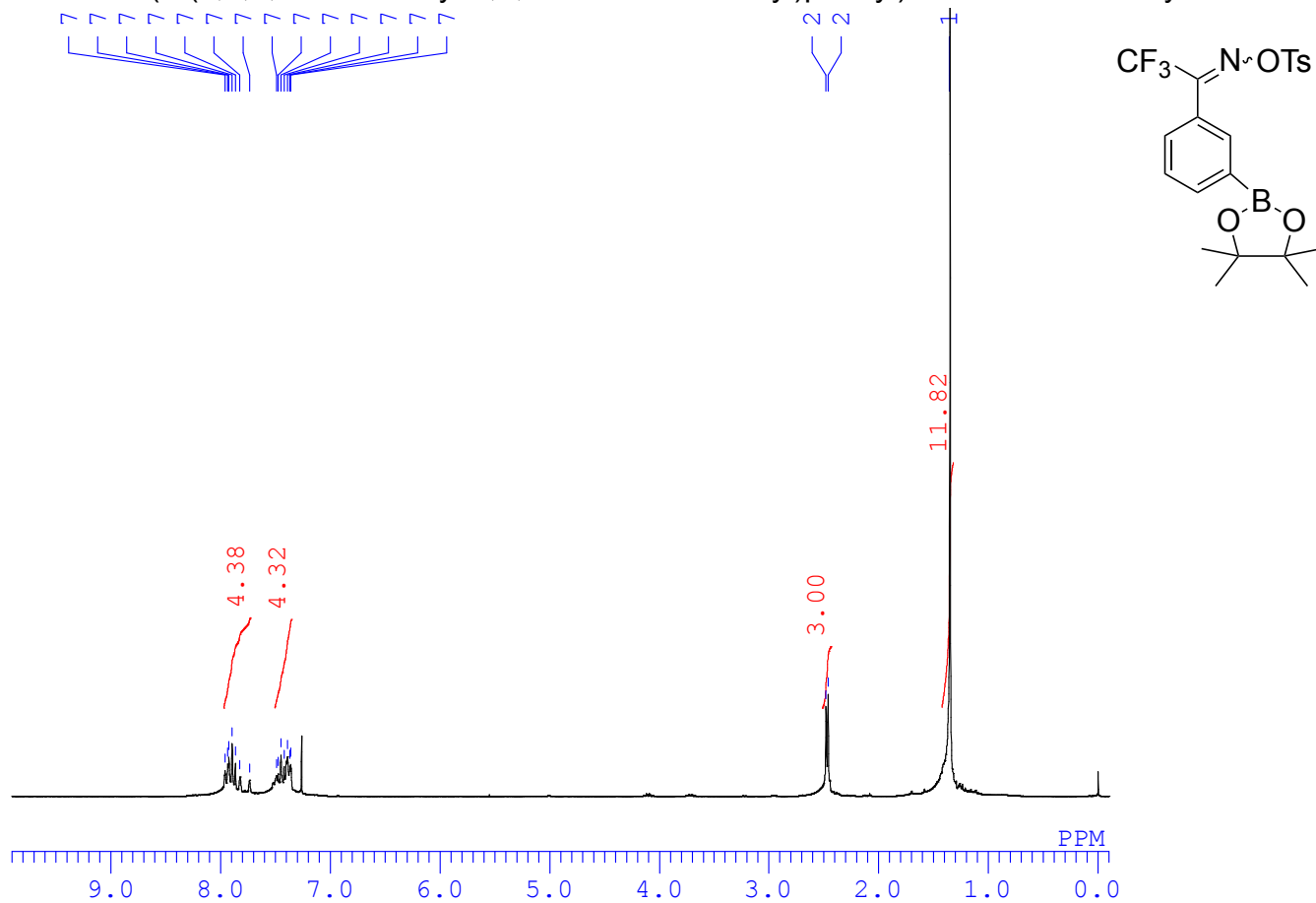
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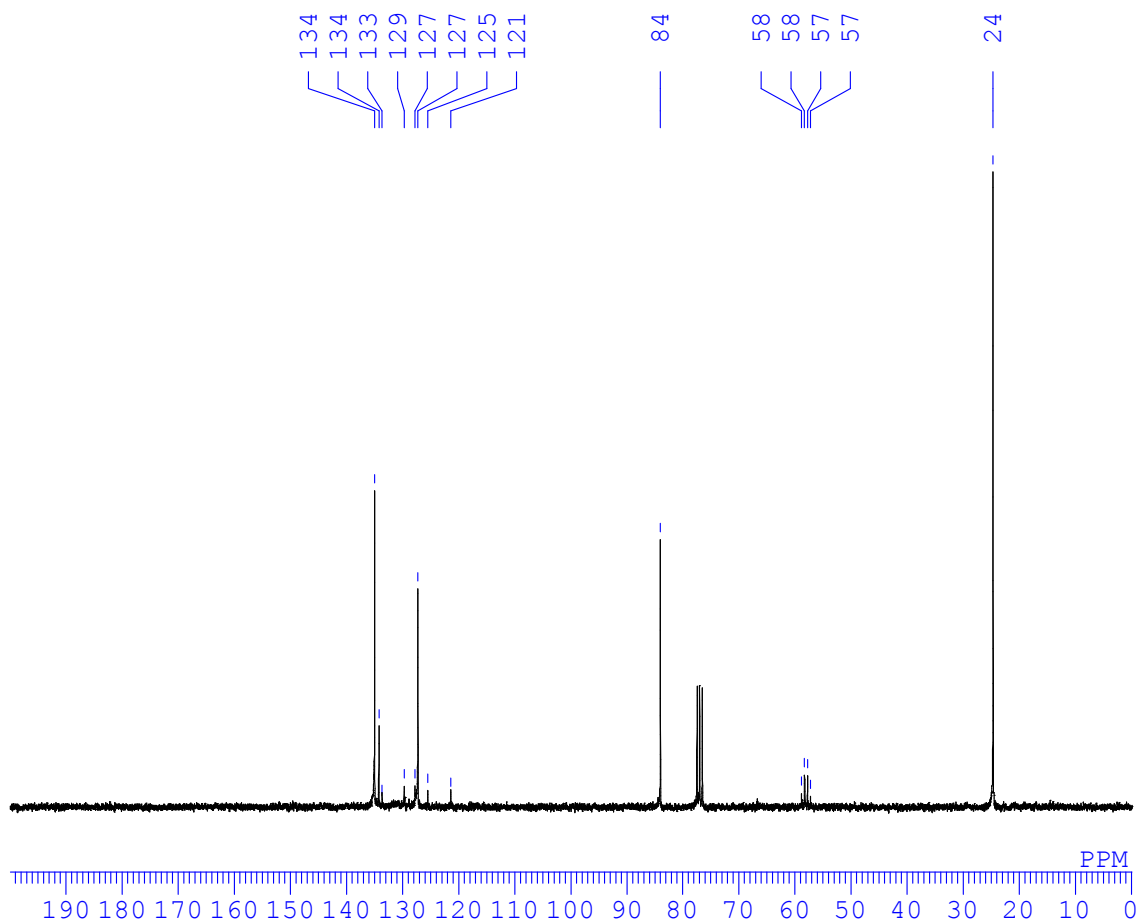
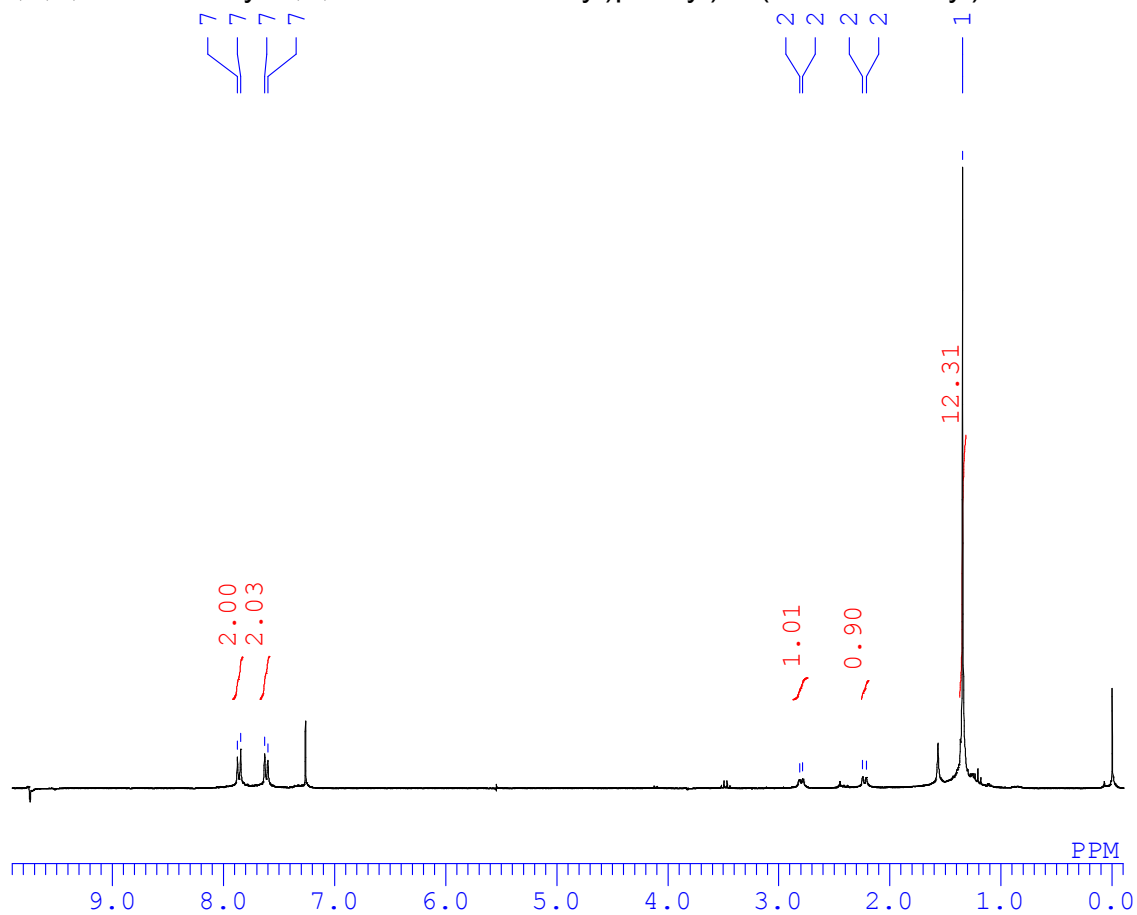
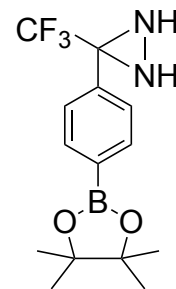
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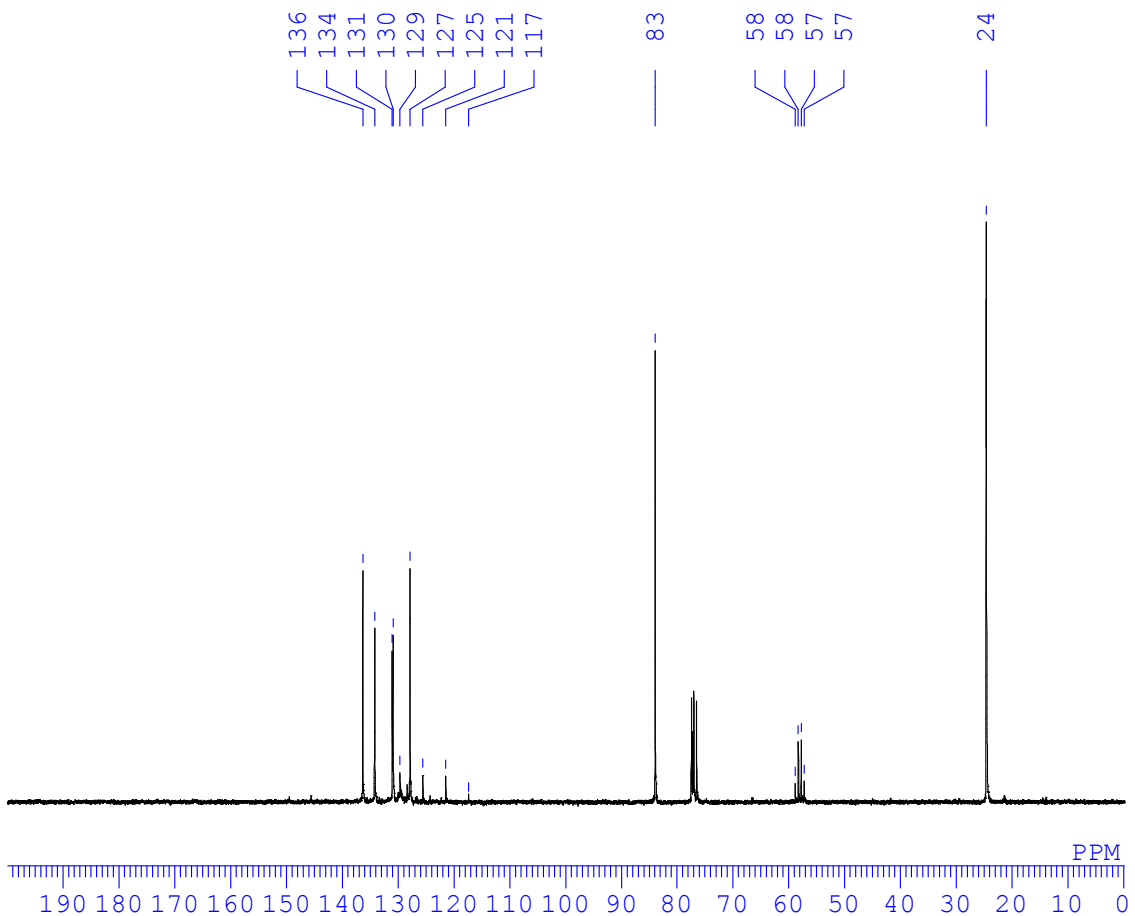
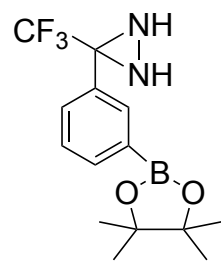
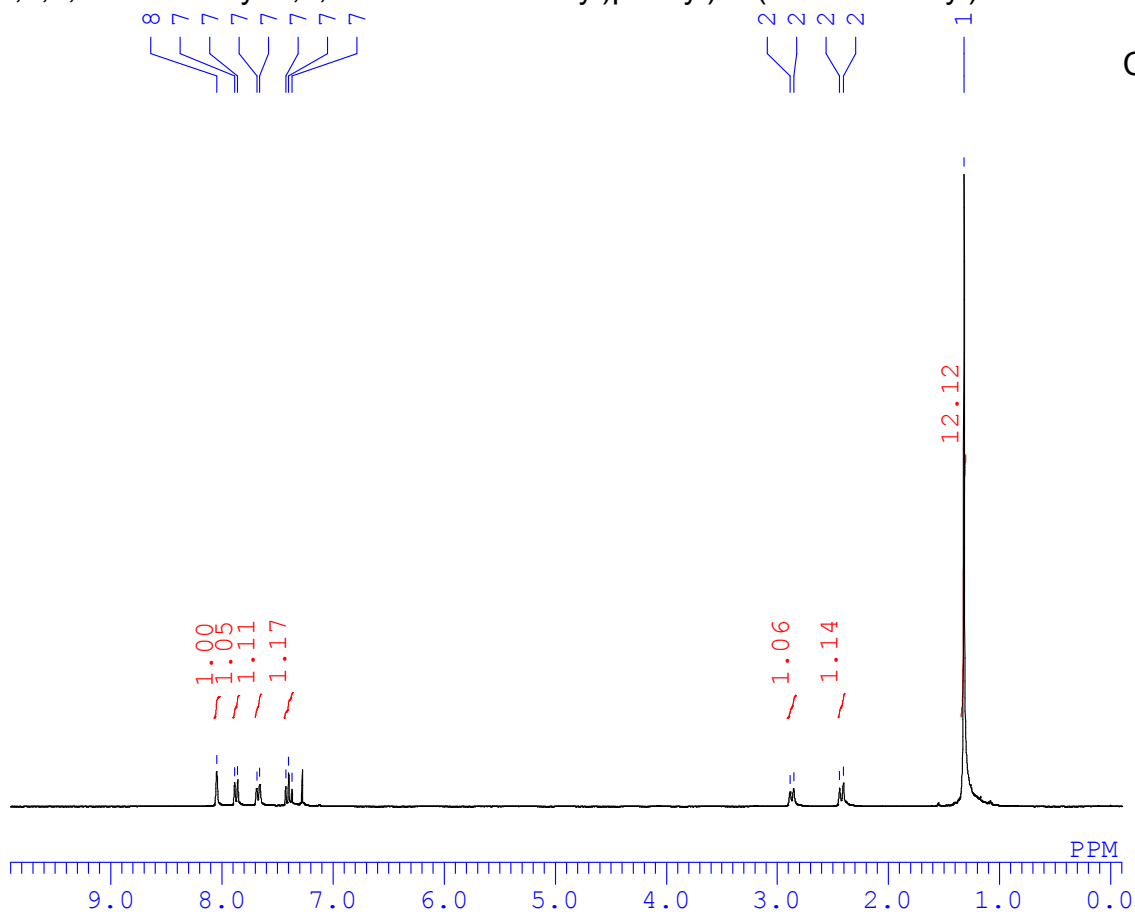
2,2,2-trifluoro-1-(3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)ethan-1-one O-tosyl oxime **10**



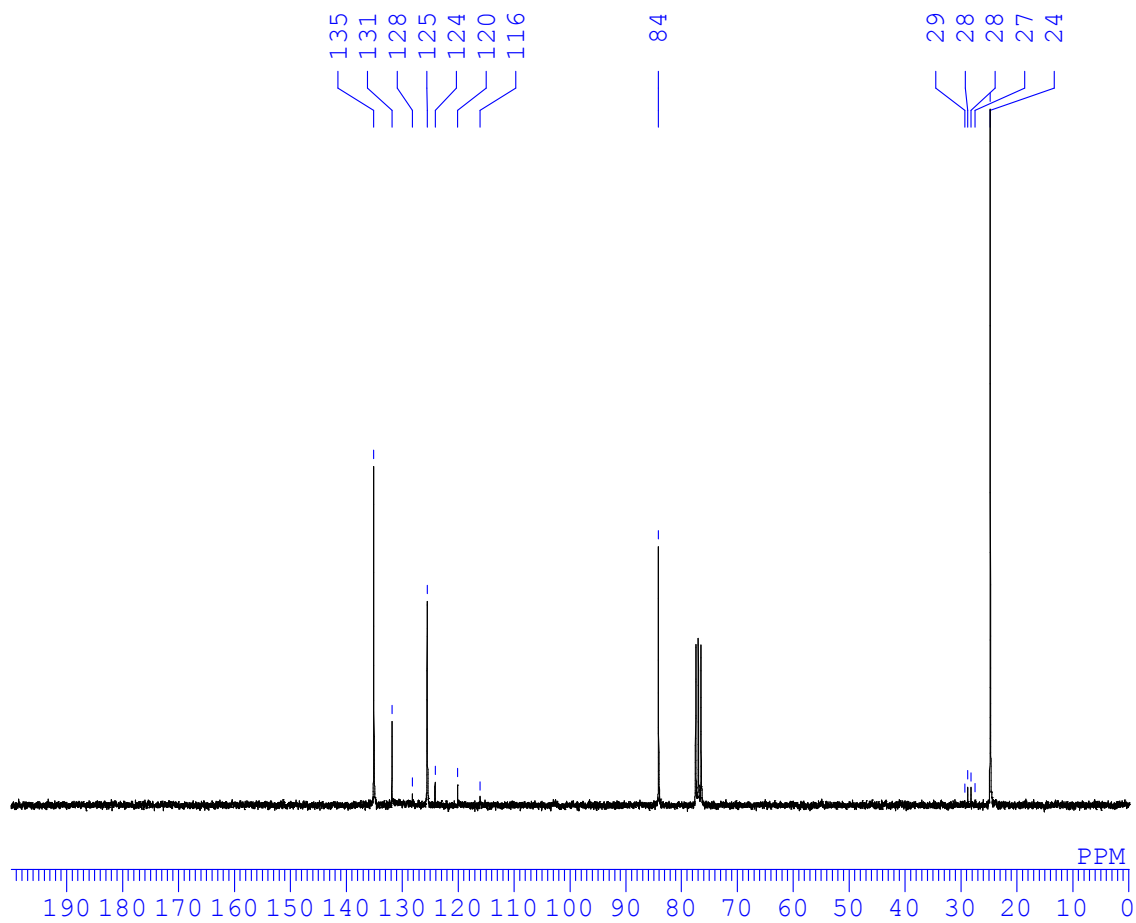
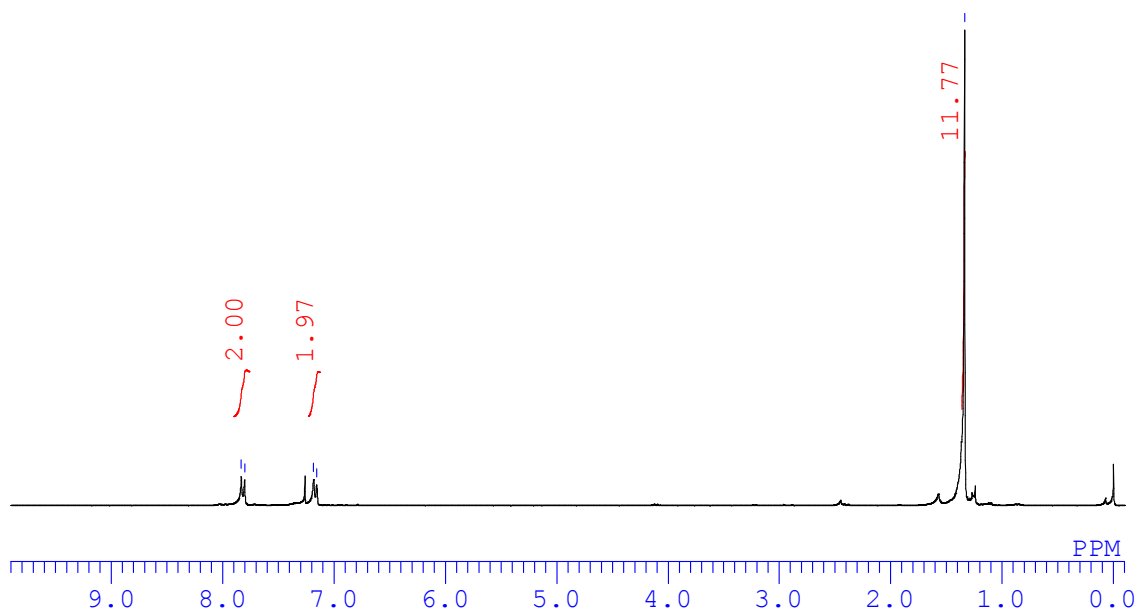
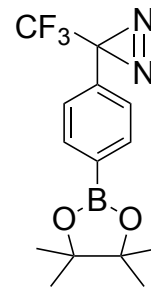
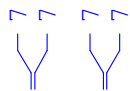
3-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)-3-(trifluoromethyl)diaziridine **11**



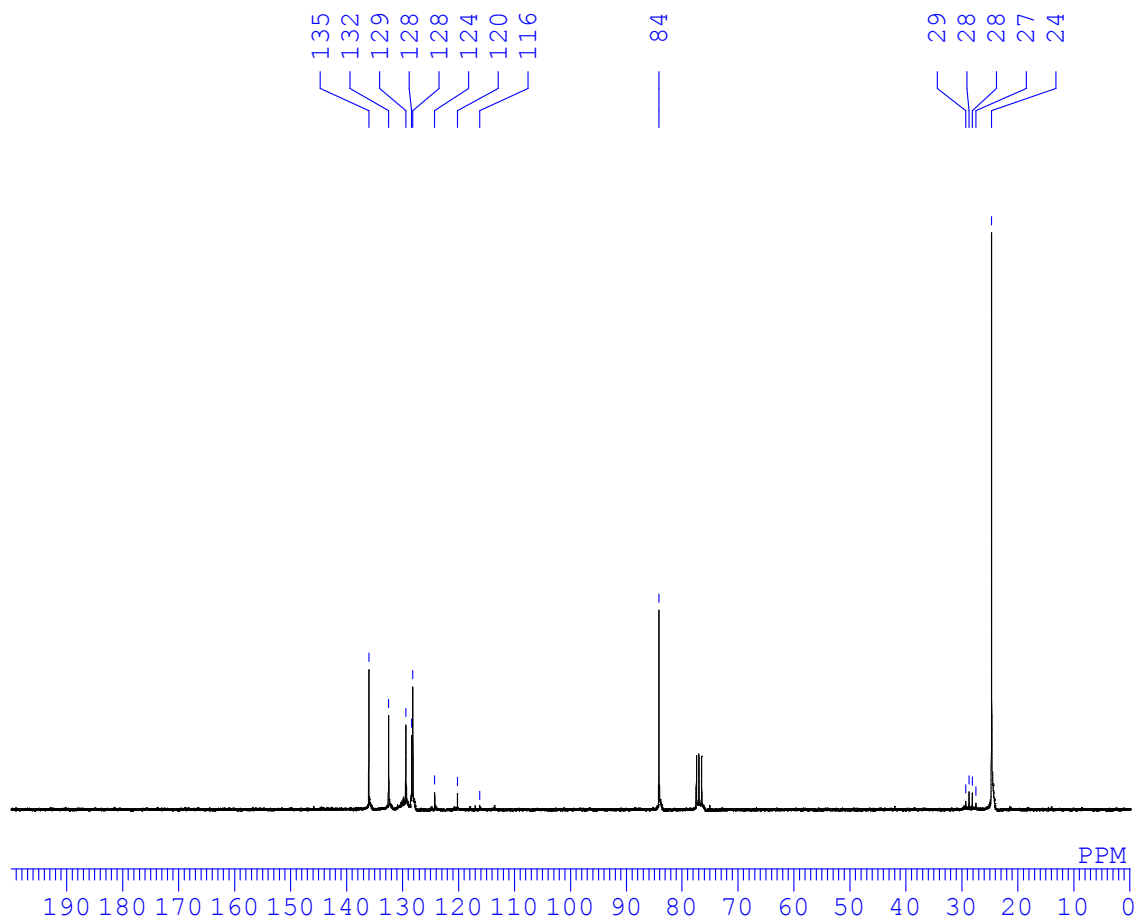
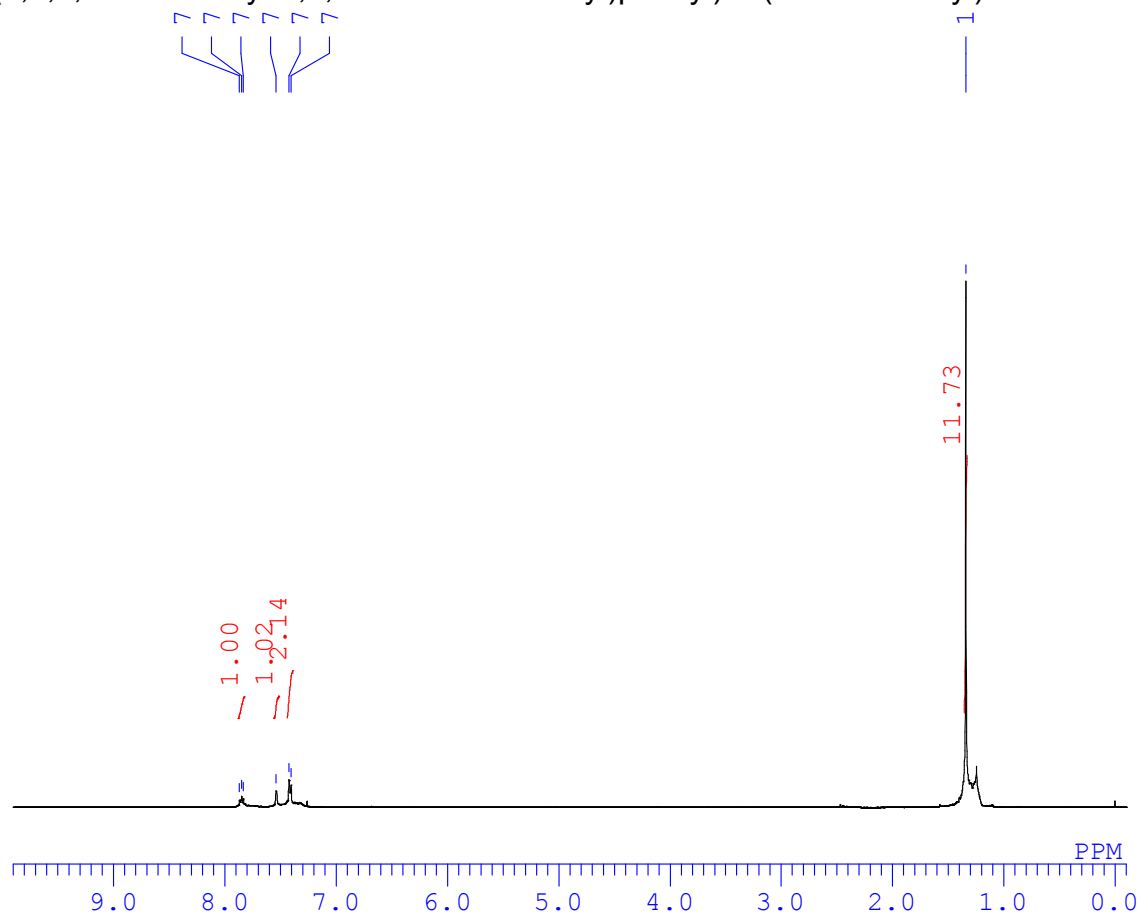
3-(3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)-3-(trifluoromethyl)diaziridine **12**



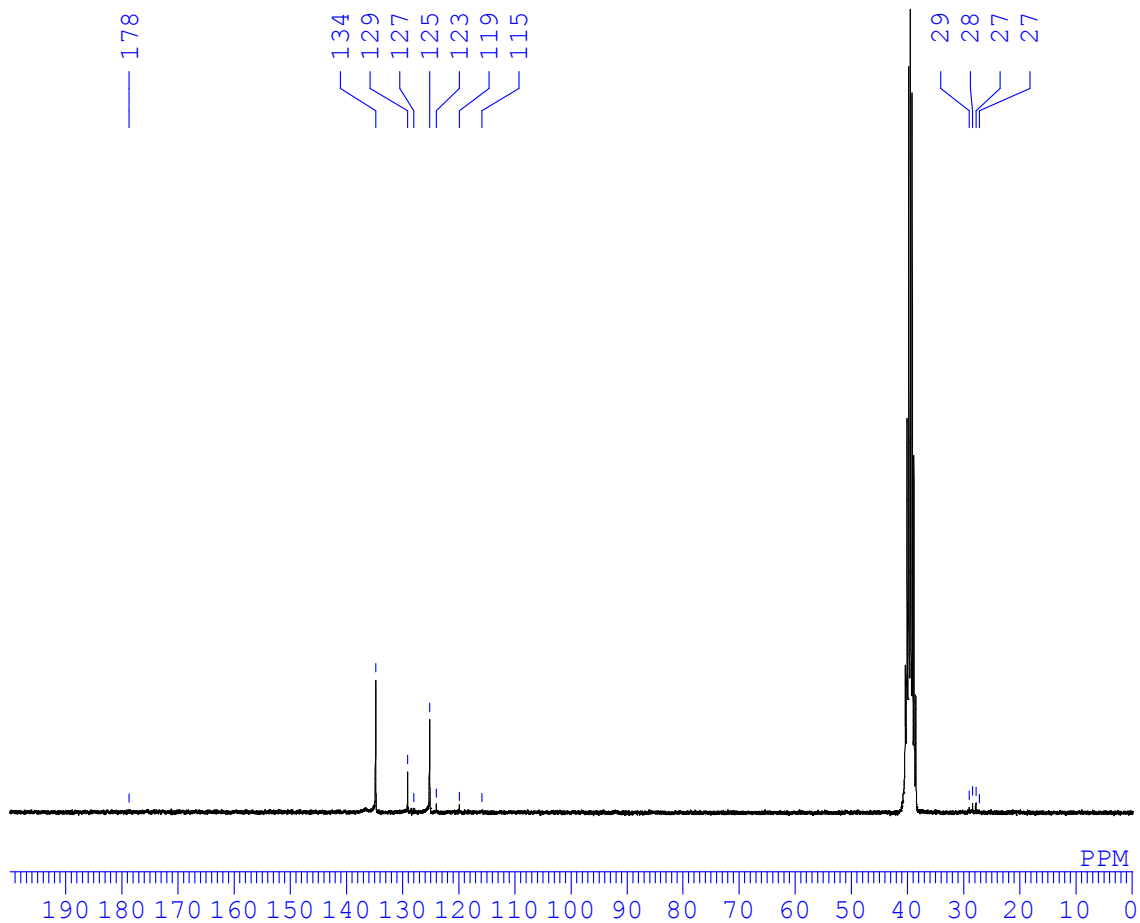
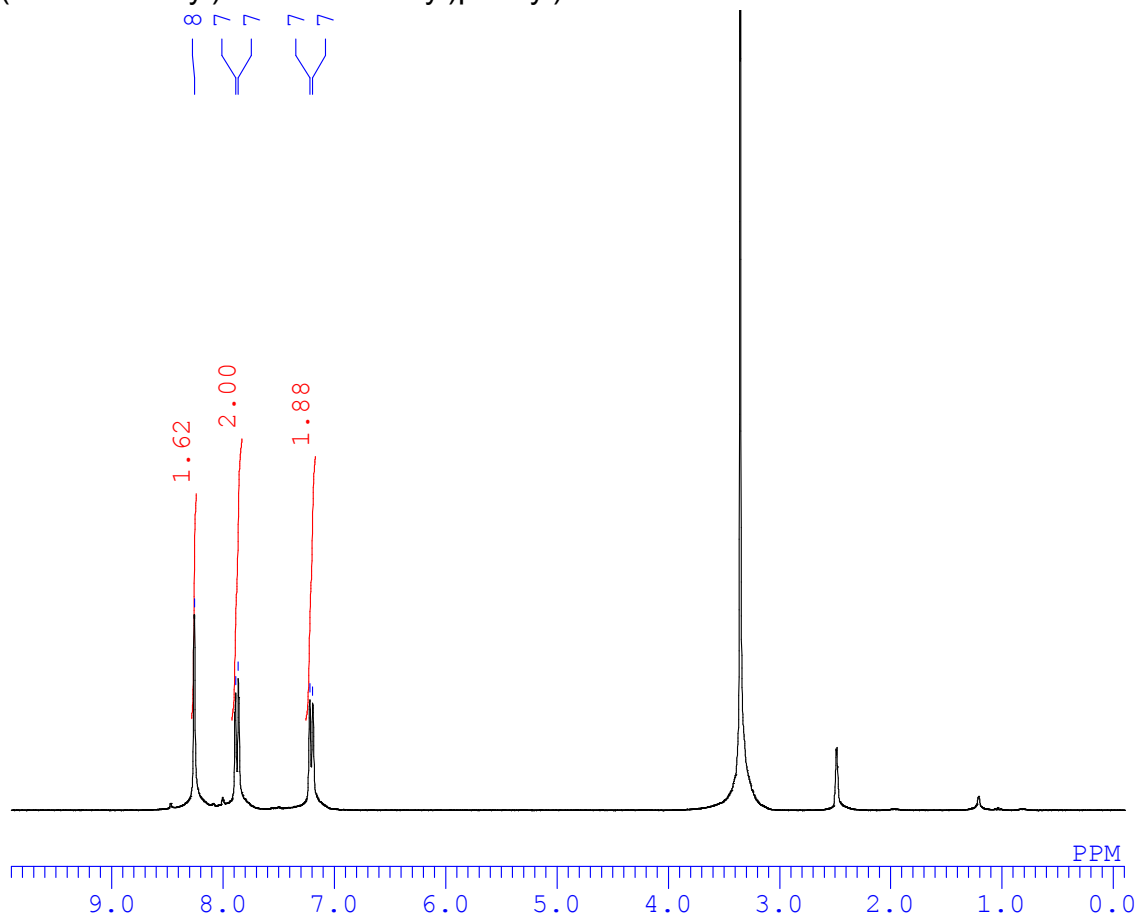
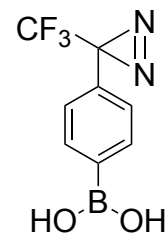
3-(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)-3-(trifluoromethyl)-3H-diazirine **13**



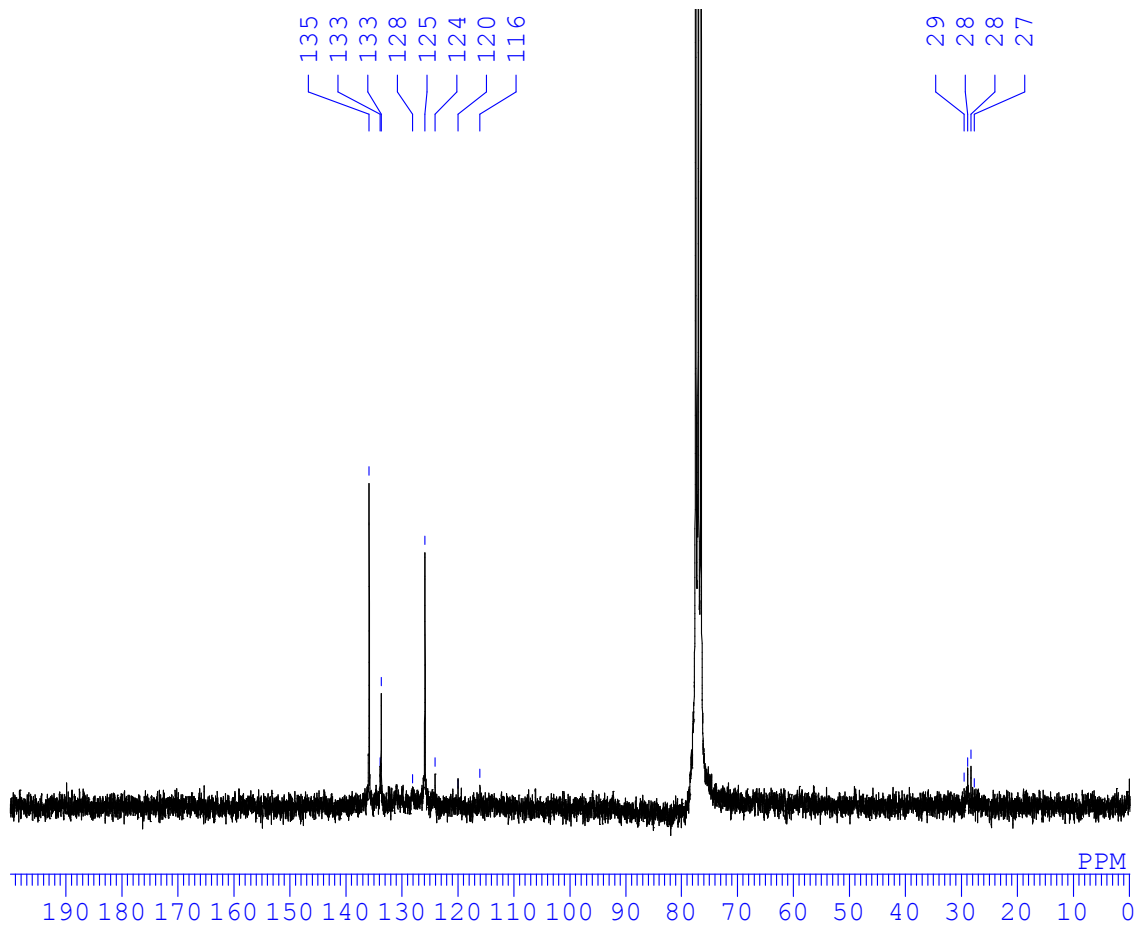
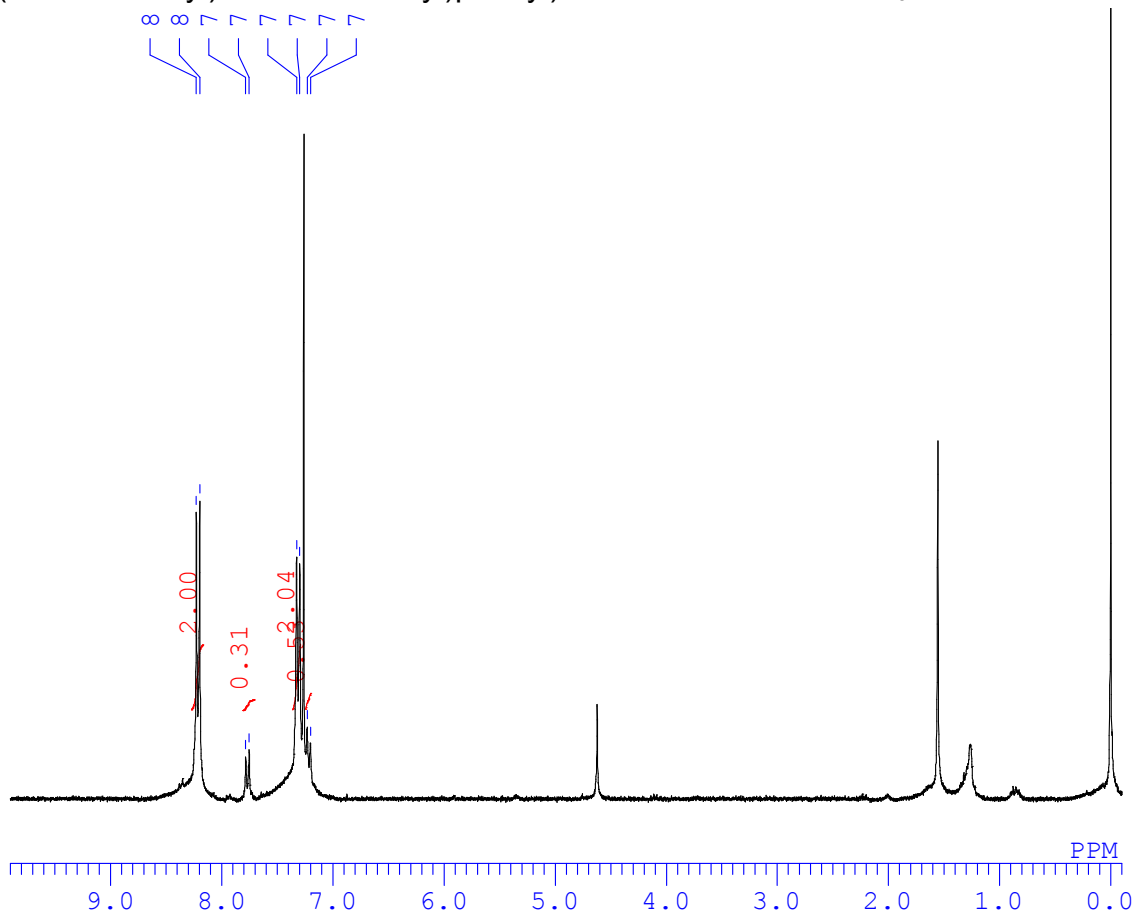
3-(3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)-3-(trifluoromethyl)-3H-diazirine **14**



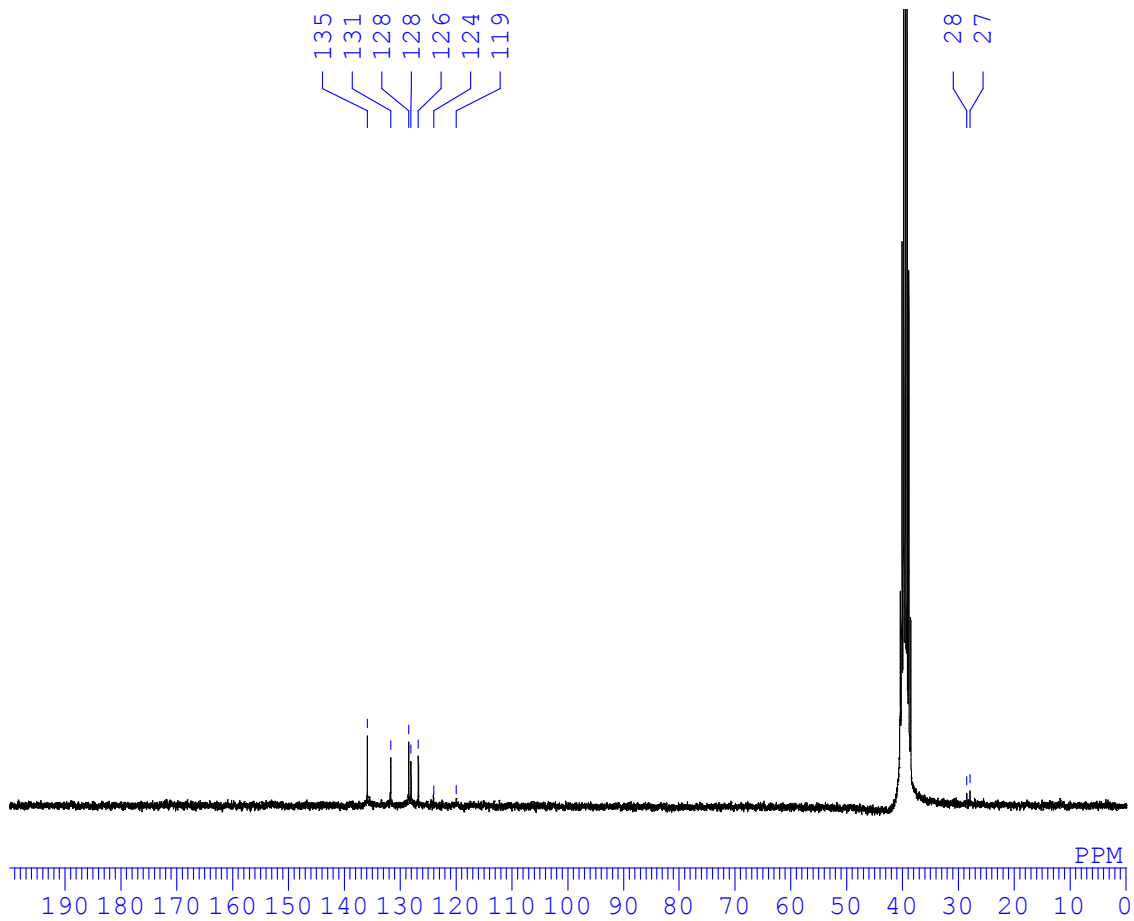
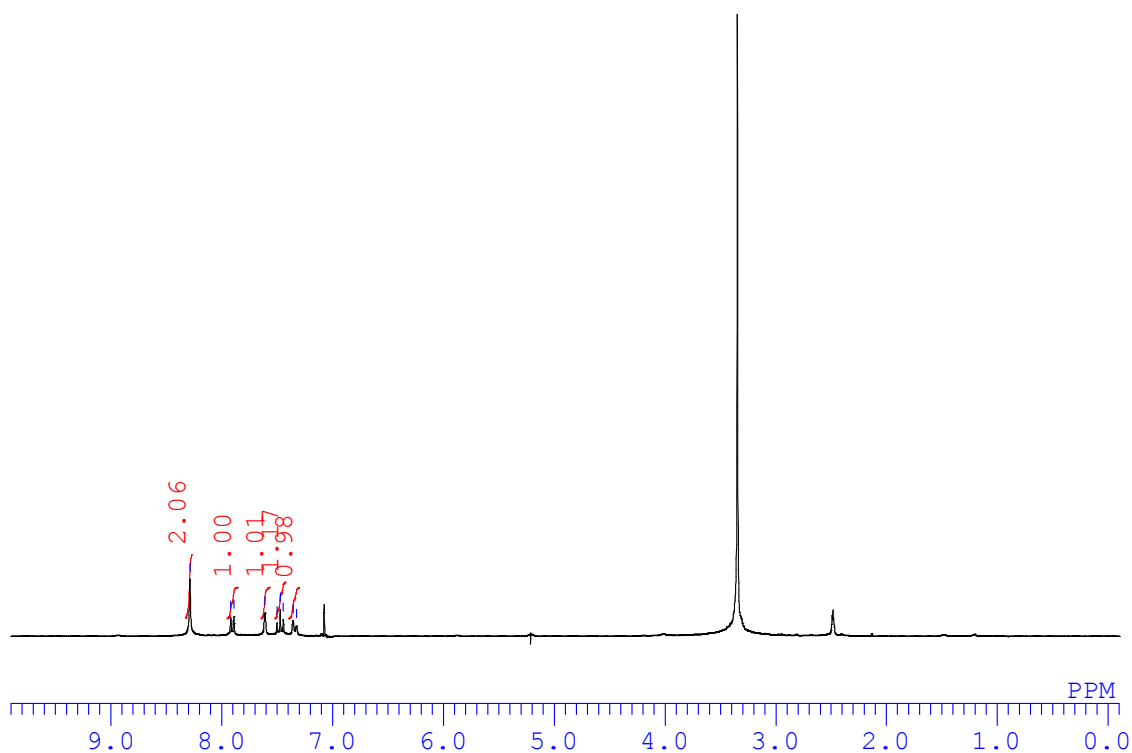
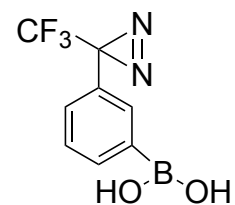
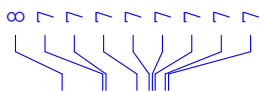
(4-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)boronic acid **15** in DMSO-d6



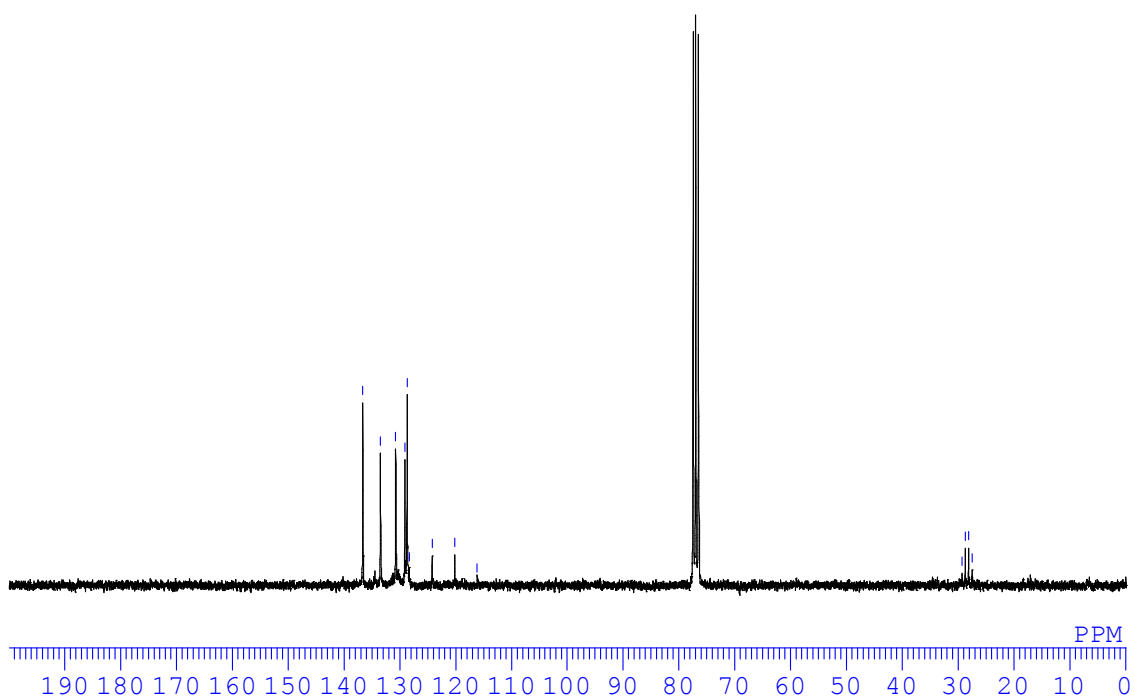
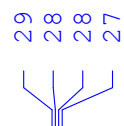
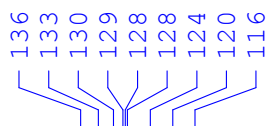
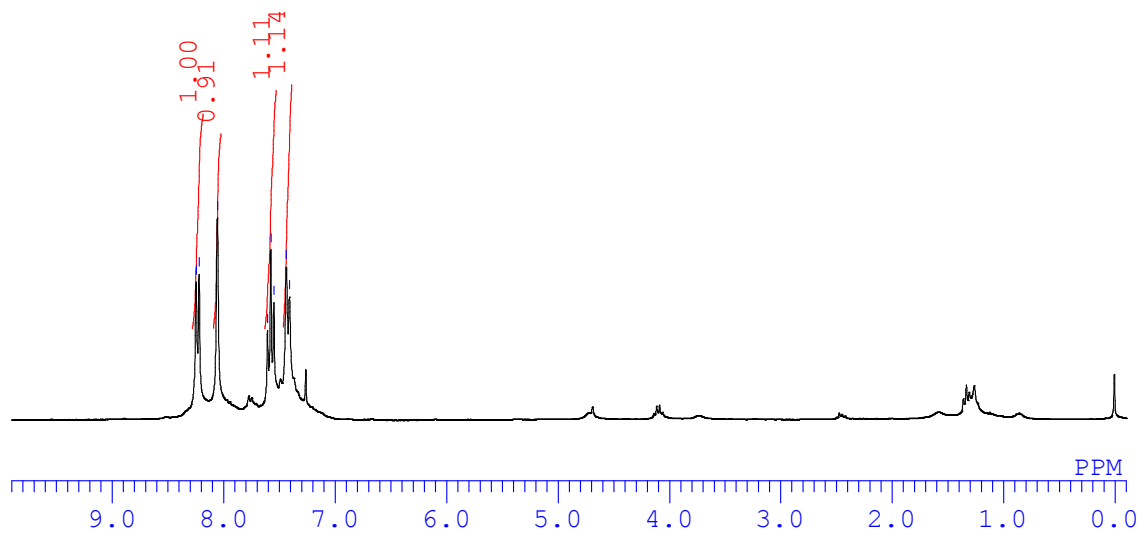
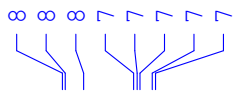
(4-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)boronic acid **15** in CDCl<sub>3</sub>



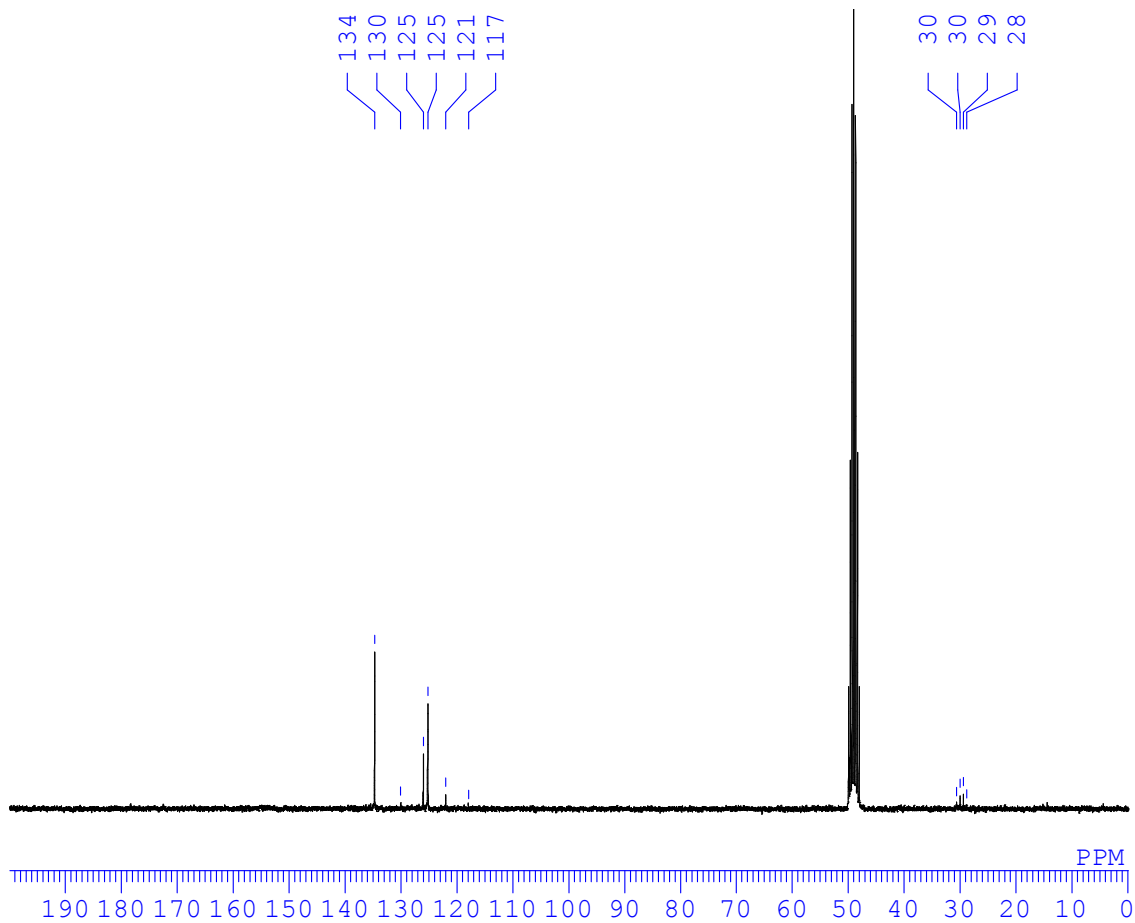
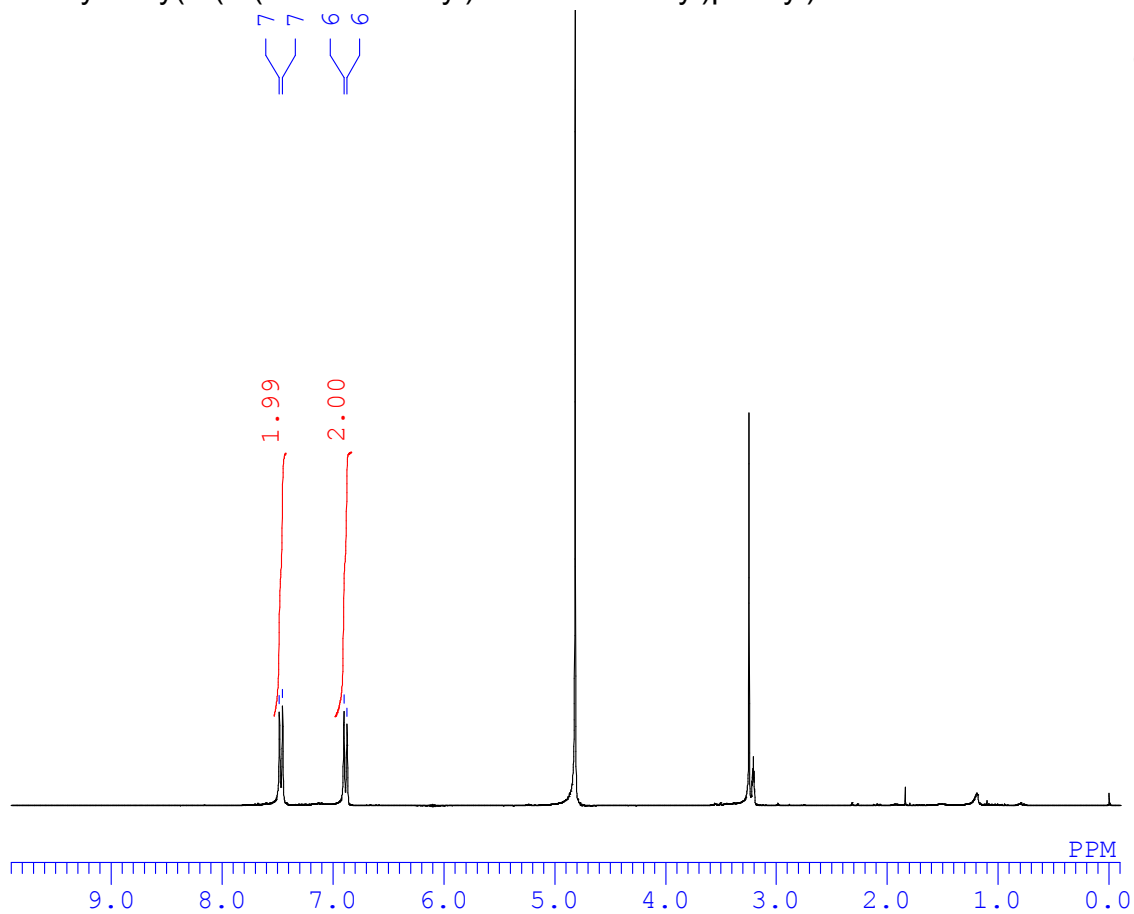
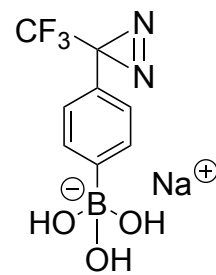
(3-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)boronic acid **16** in DMSO-d6



(3-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)boronic acid **16** in CDCl<sub>3</sub>



Sodium trihydroxy(4-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)borate 17



Sodium trihydroxy(3-(3-(trifluoromethyl)-3H-diazirin-3-yl)phenyl)borate **18**

