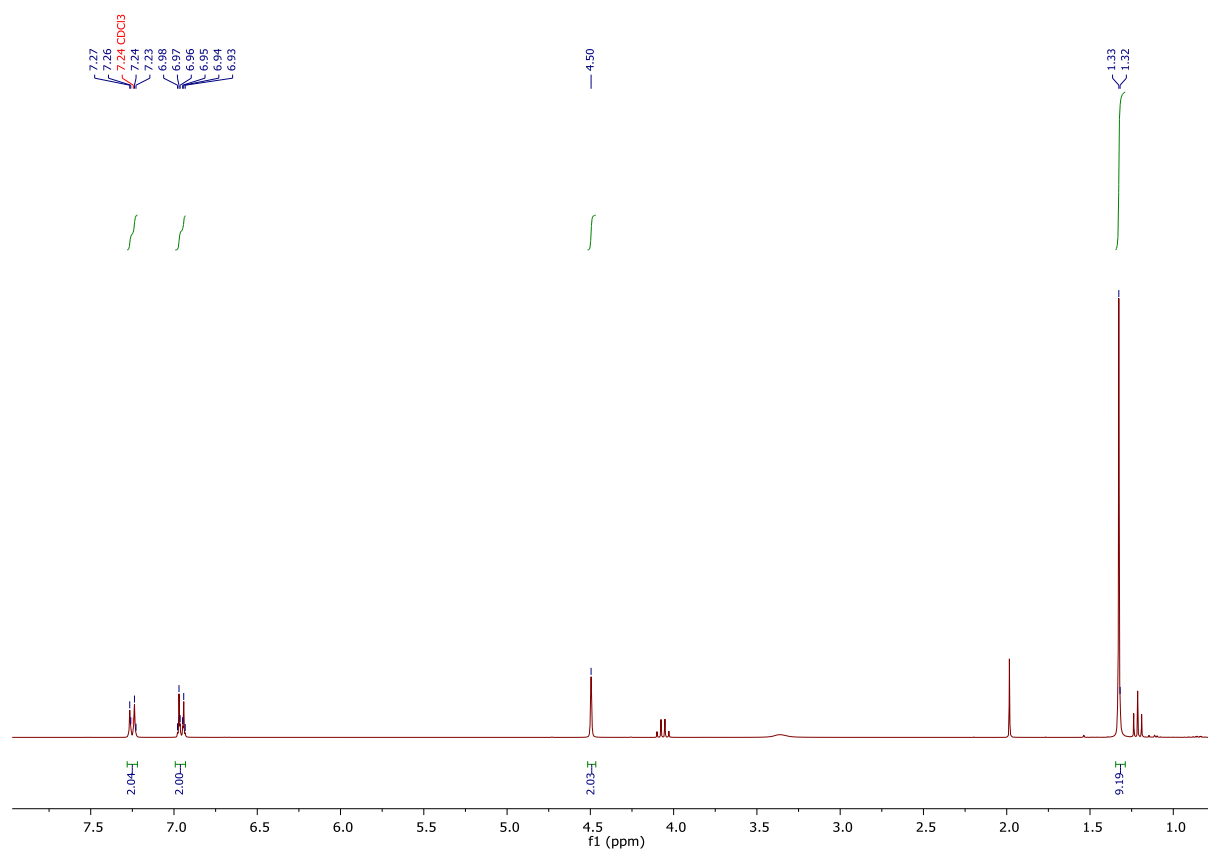
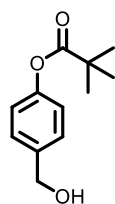
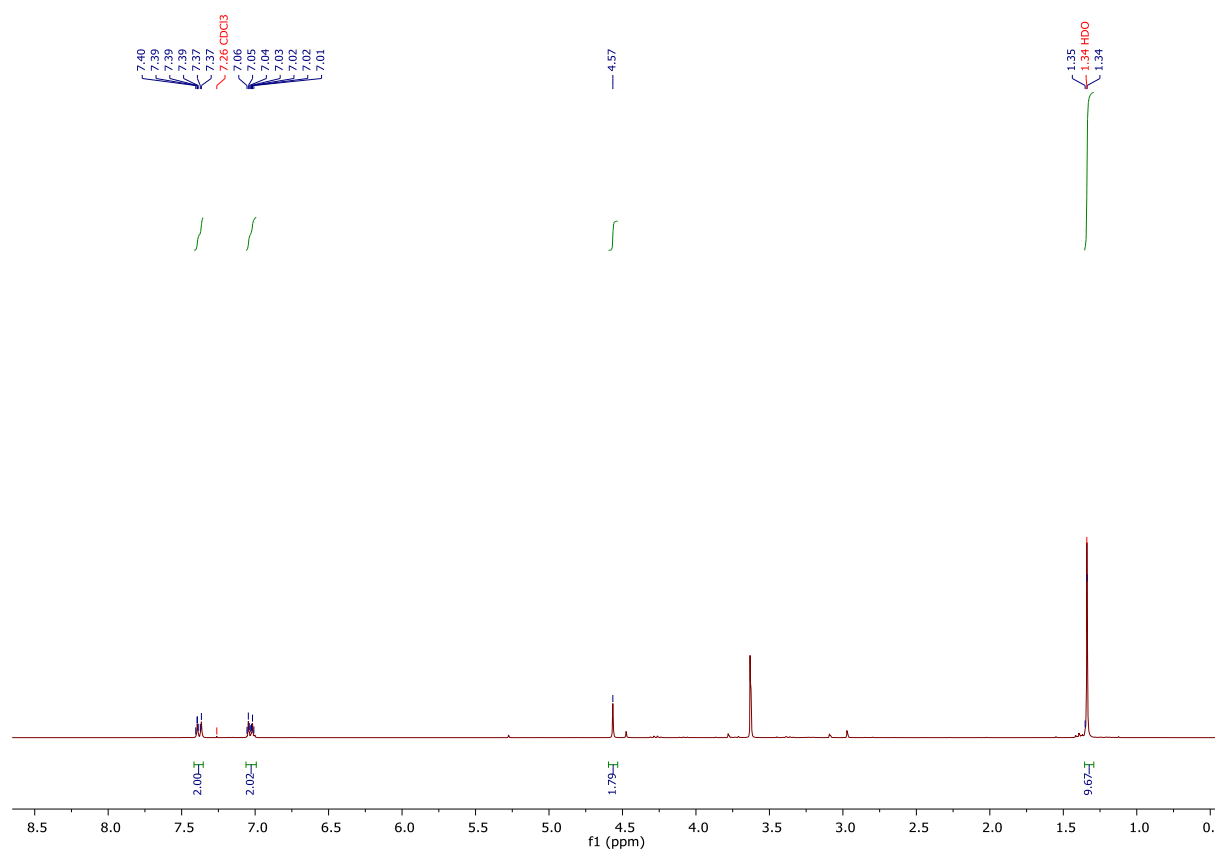
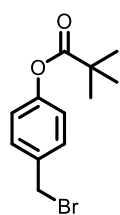


7. NMR

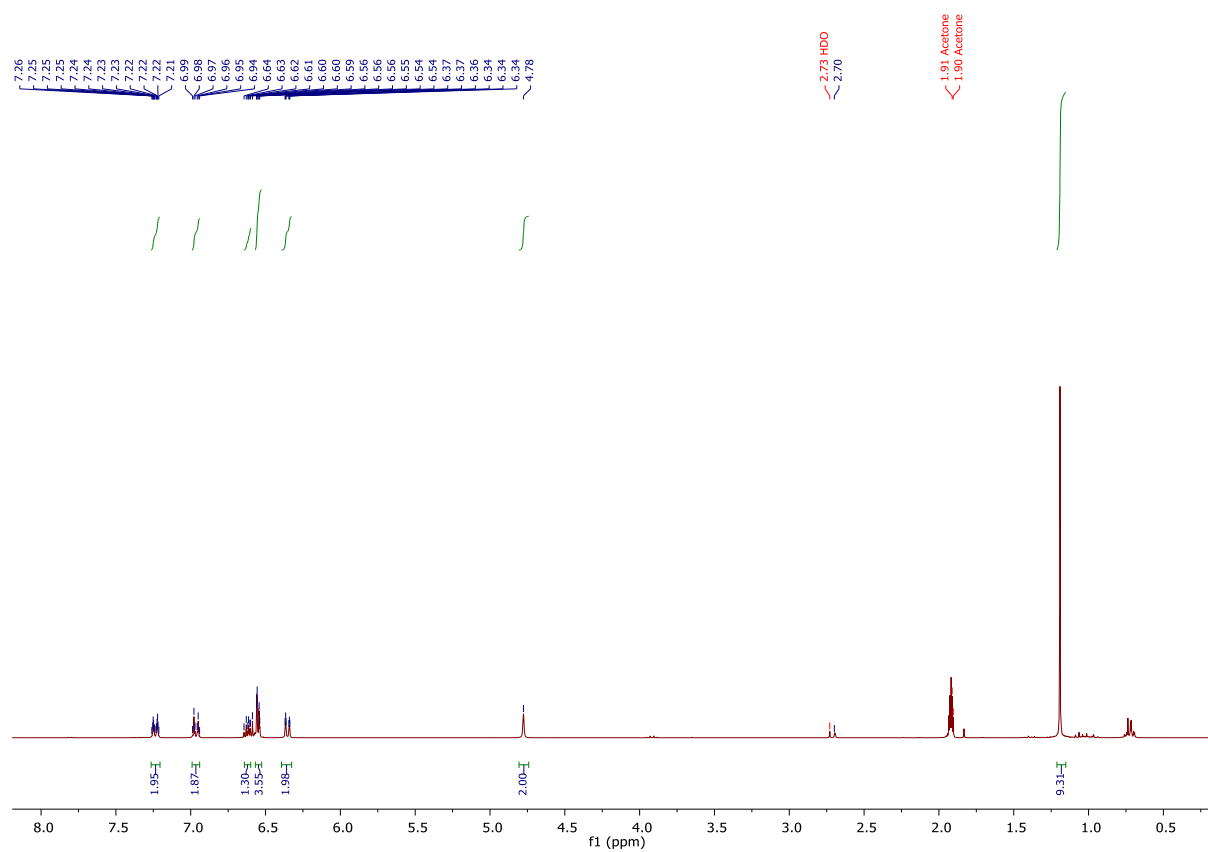
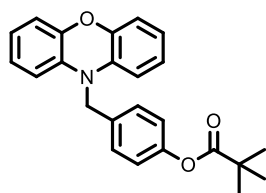
4-(hydroxymethyl)phenyl pivalate – (1.2)- (300 MHz, CDCl₃)



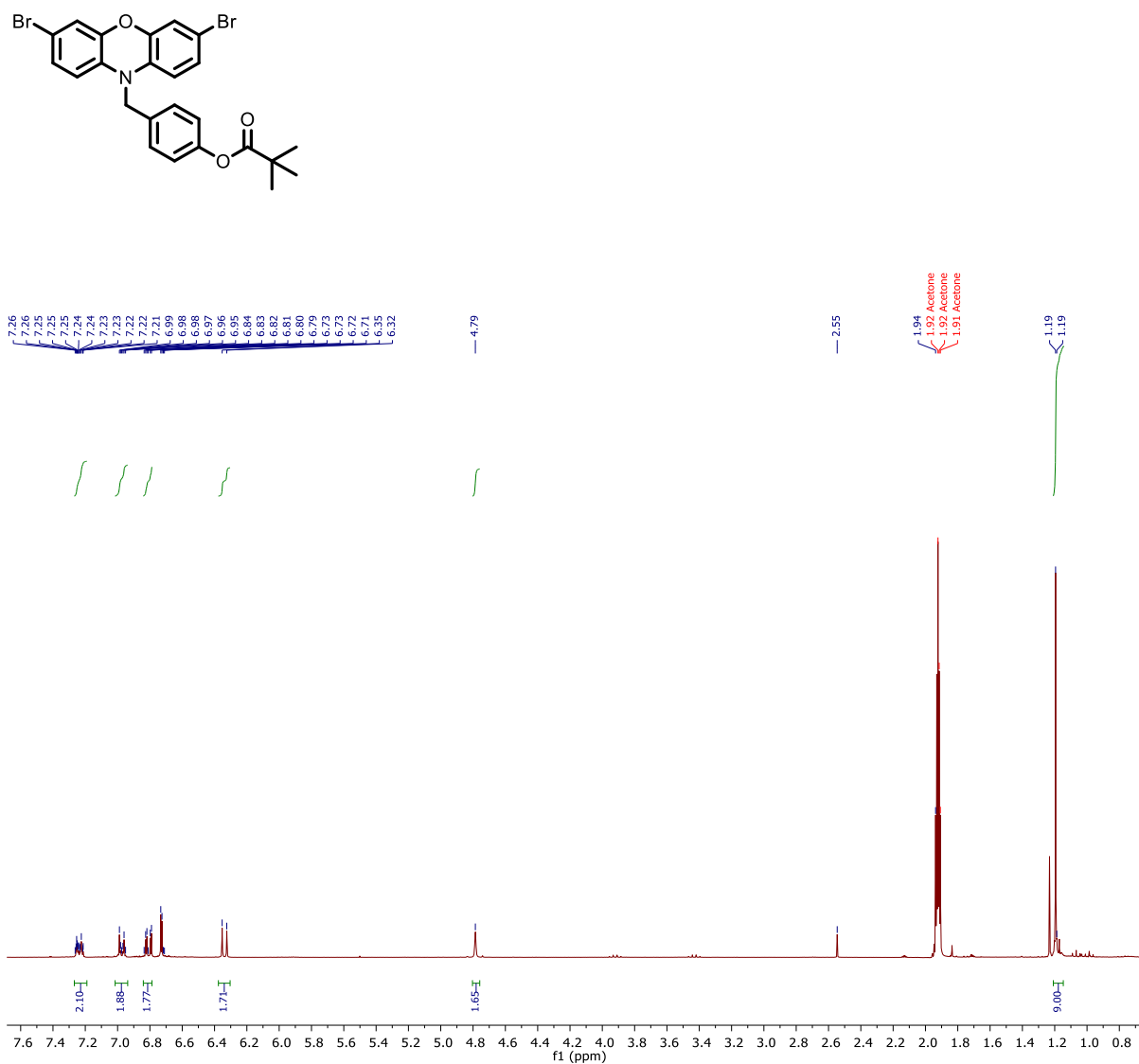
4-(bromomethyl)phenyl pivalate – (1.3)- (300 MHz, CDCl₃)



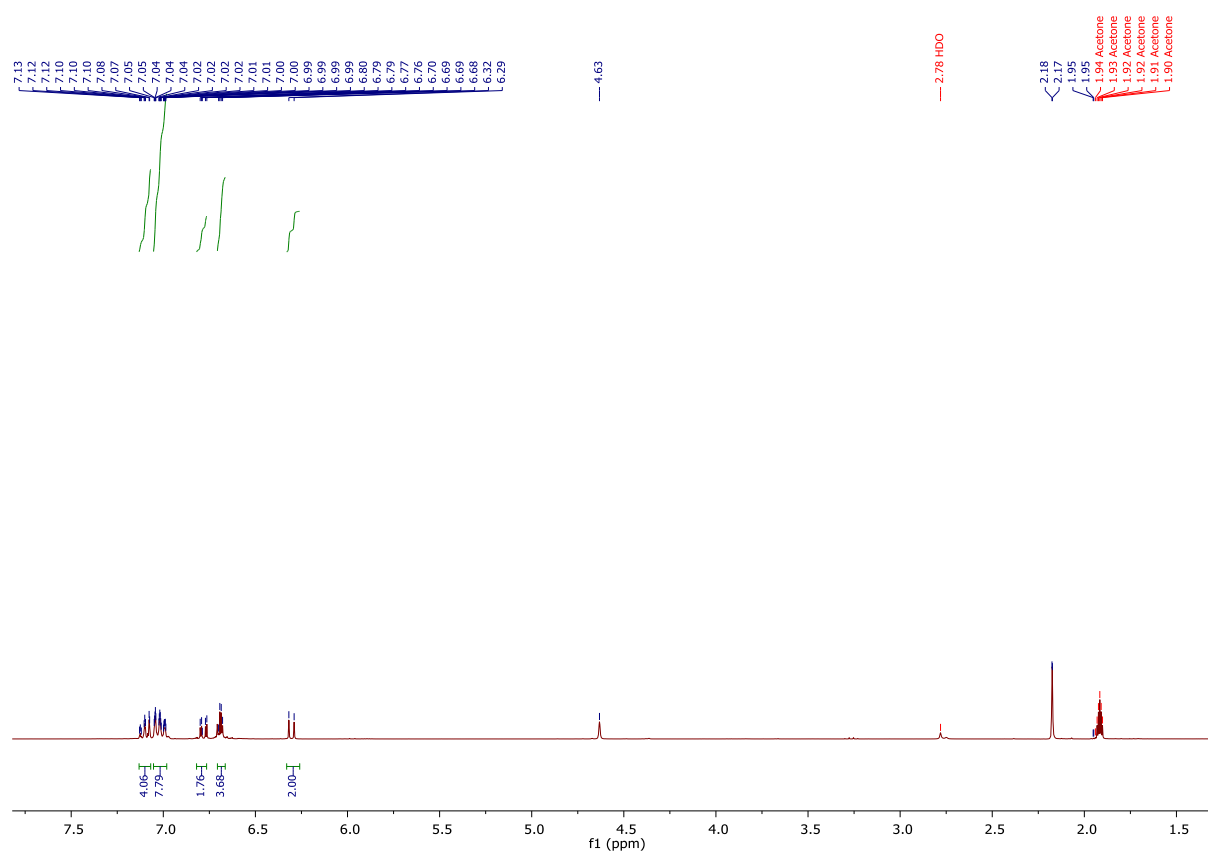
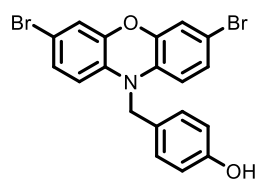
4-((10*H*-phenoxazin-10-yl)methyl)phenyl pivalate - (1.4)- (300 MHz, Acetone-*d*₆)



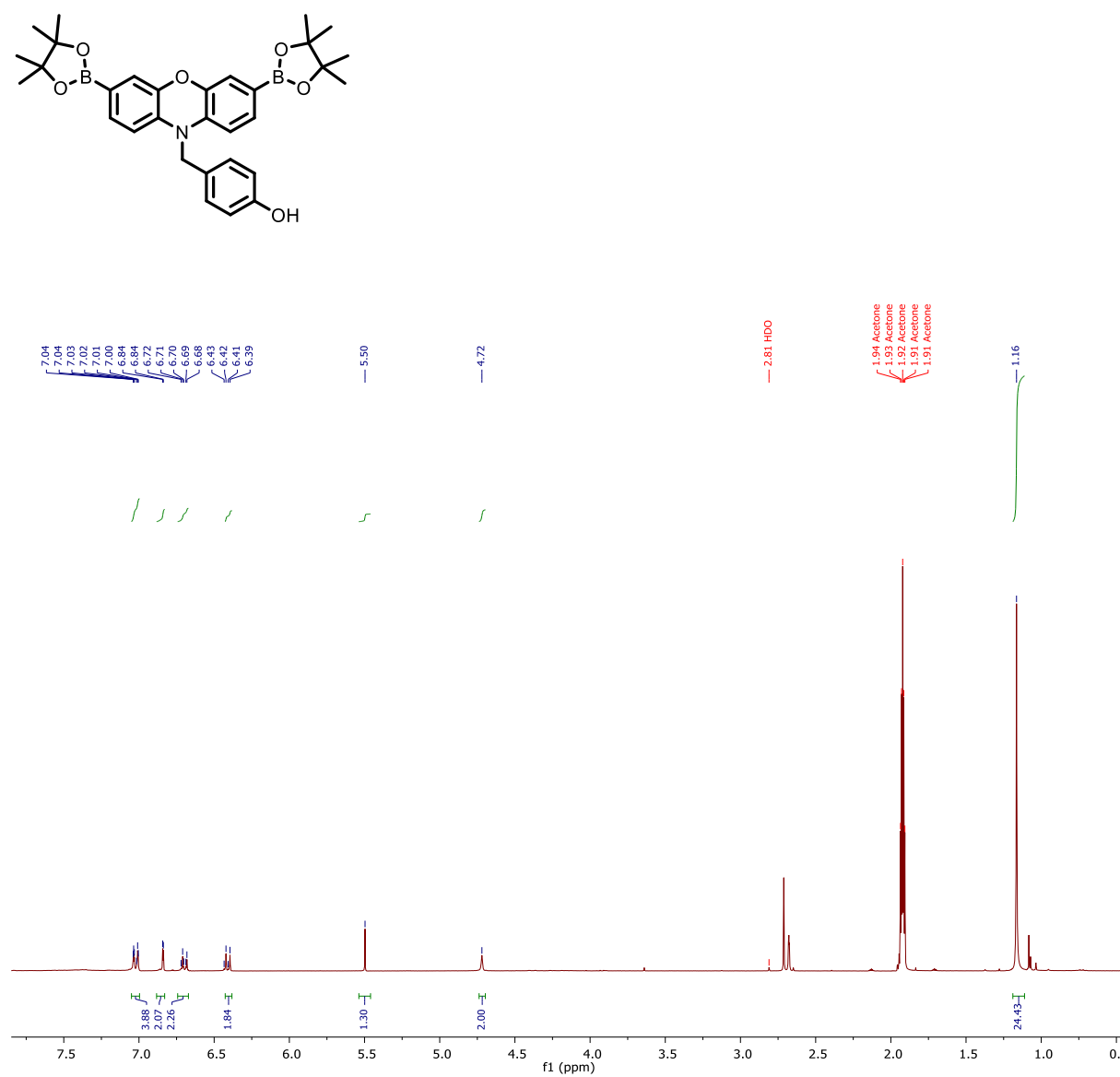
4-((3,7-dibromo-10H-phenoxazin-10-yl)methyl)phenyl pivalate – (1.5)- (300 MHz, DMSO-*d*₆)



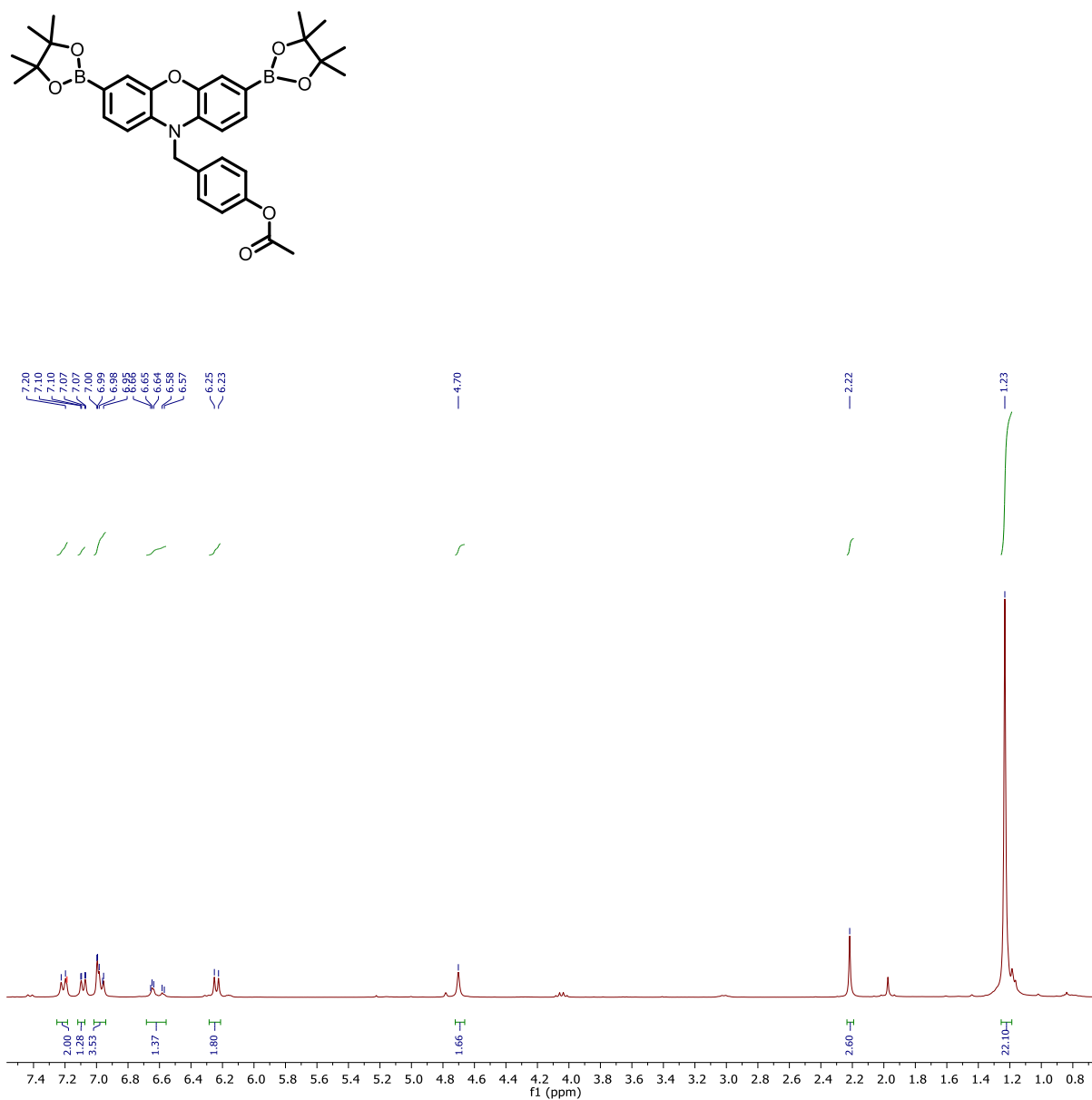
4-((3,7-dibromo-10*H*-phenoxazin-10-yl)methyl)phenol (1.6) (300 MHz, Acetone- d_6)



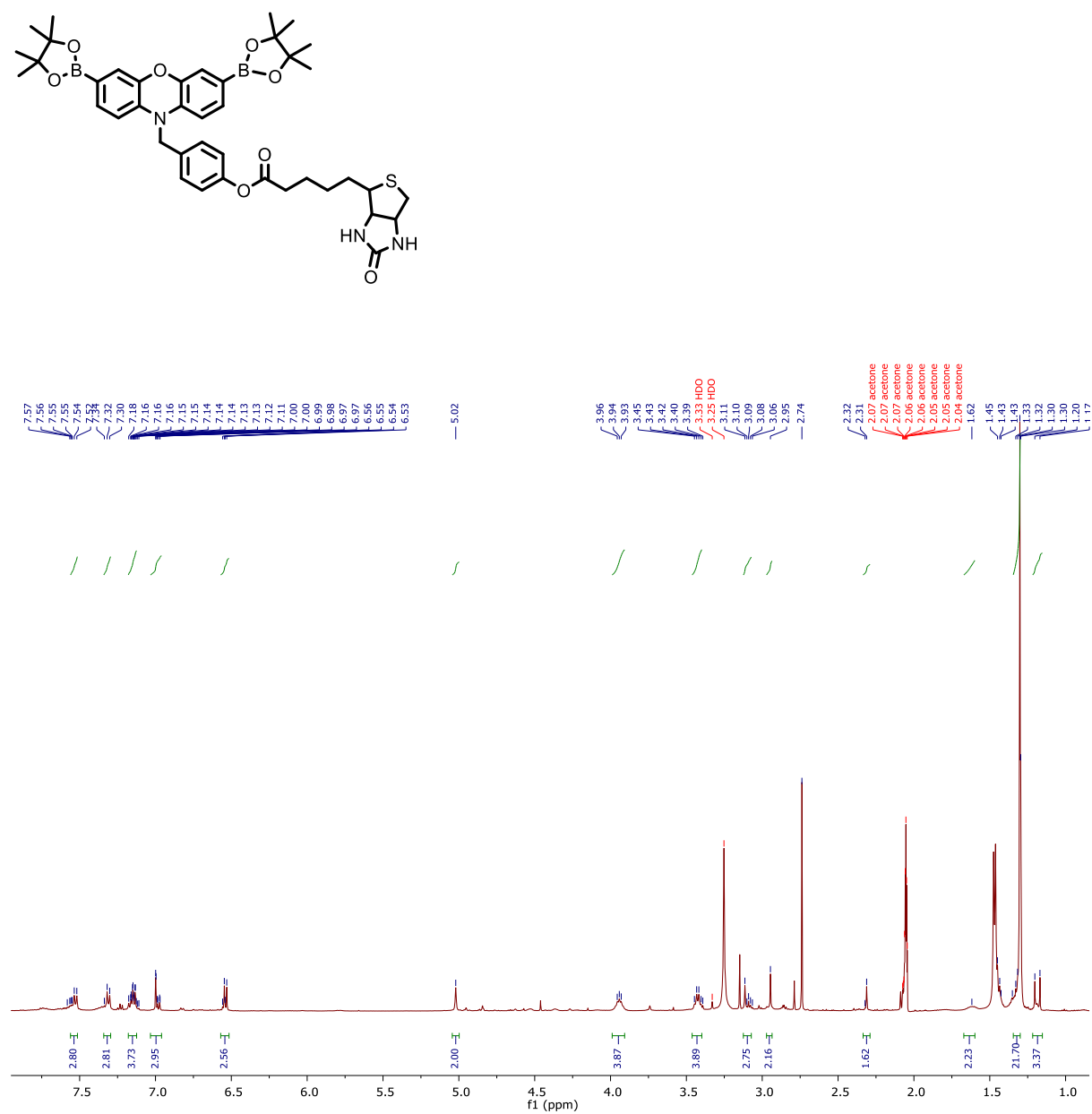
4-((3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazin-10-yl)methyl)phenol
(Pinkment-OH) (300 MHz, Acetone-*d*₆)



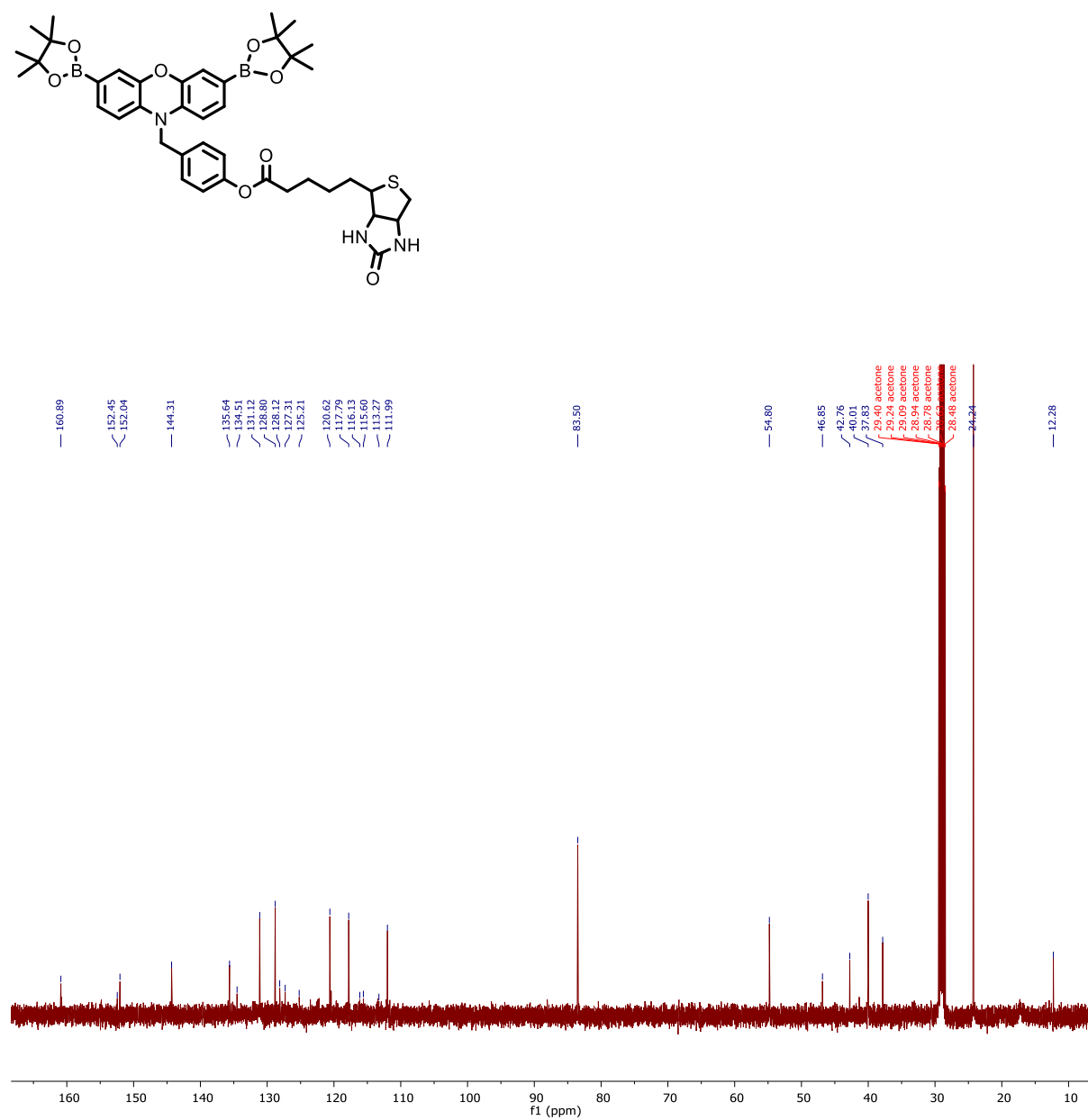
4-((3-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-7-(4,4,5-trimethyl-1,3,2-dioxaborolan-2-yl)-10H-phenoxazin-10-yl)methyl)cyclohexa-2,4-dien-1-yl acetate (1.11)- (300 MHz, CDCl₃)



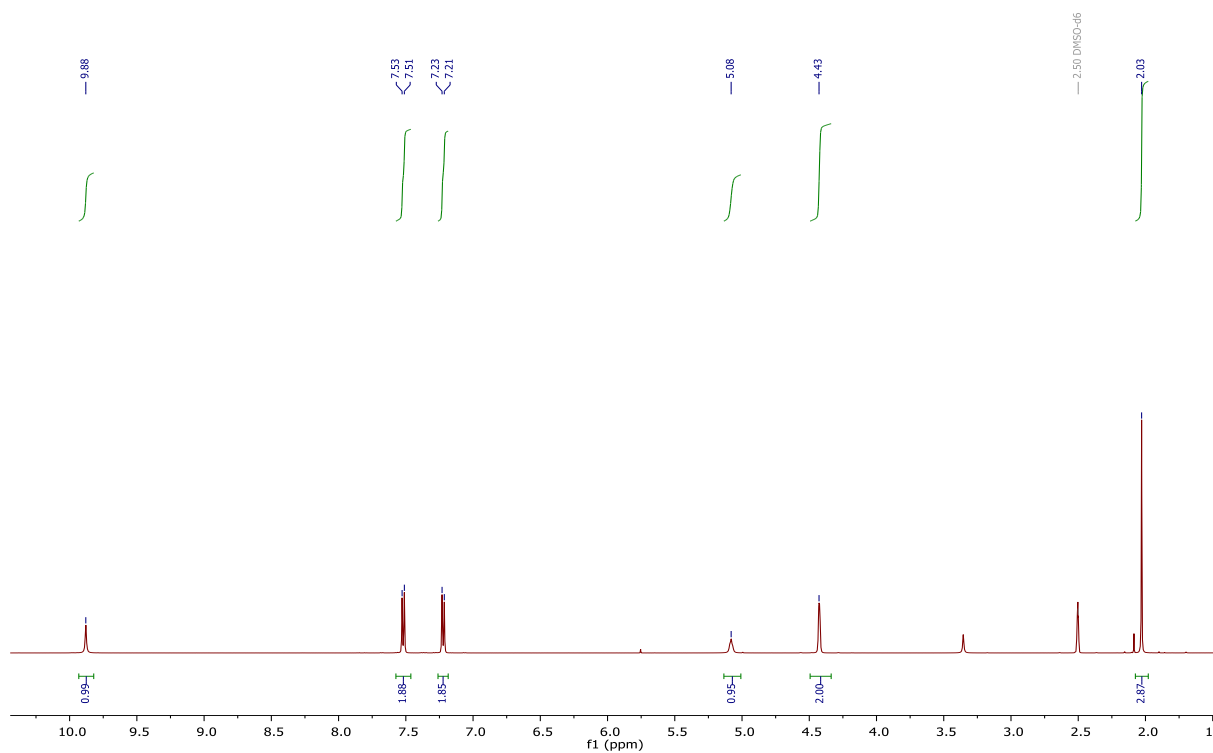
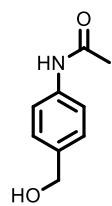
4-((3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazin-10-yl)methyl)phenyl 5-(2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate (Pinkment-Biotin)- (300 MHz, Acetone-*d*₆)



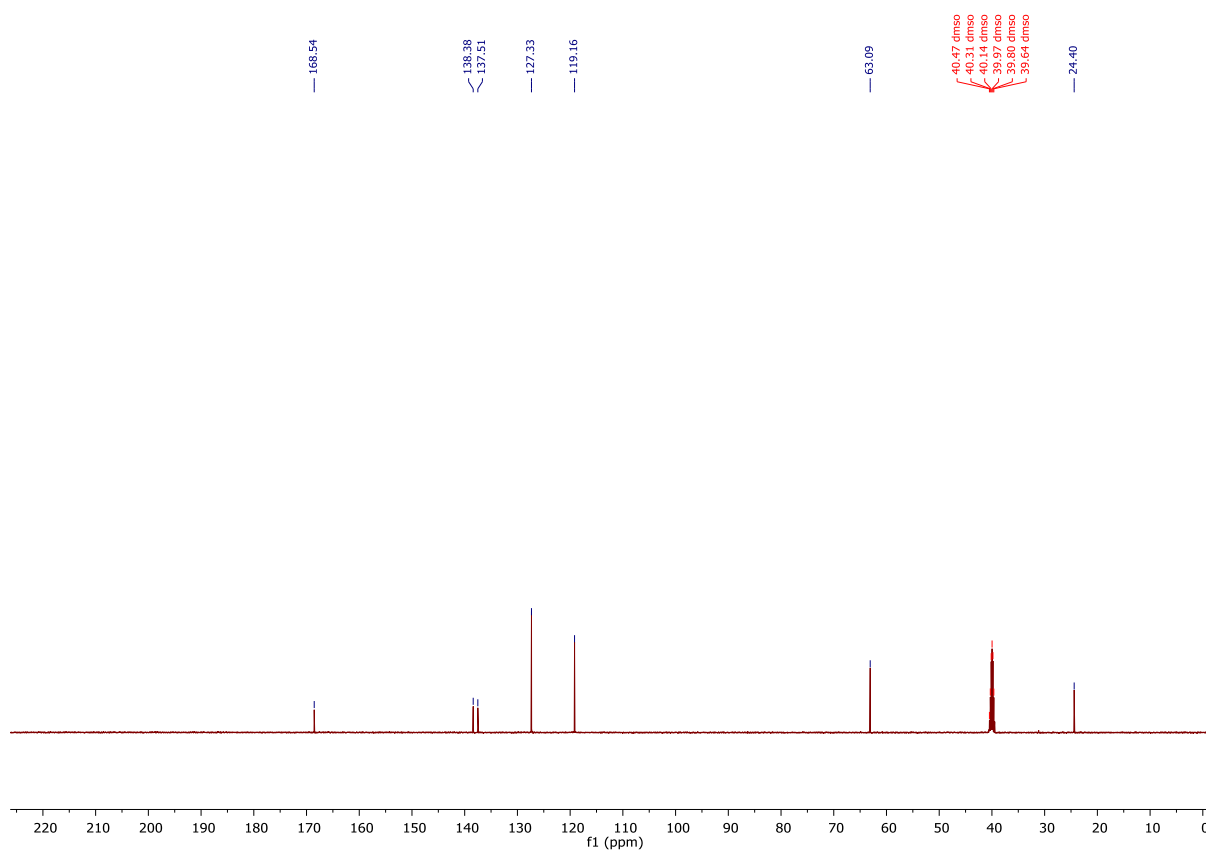
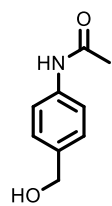
4-((3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazin-10-yl)methyl)phenyl 5-(2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate (Pinkment-Biotin) (75 MHz, Acetone-*d*₆)



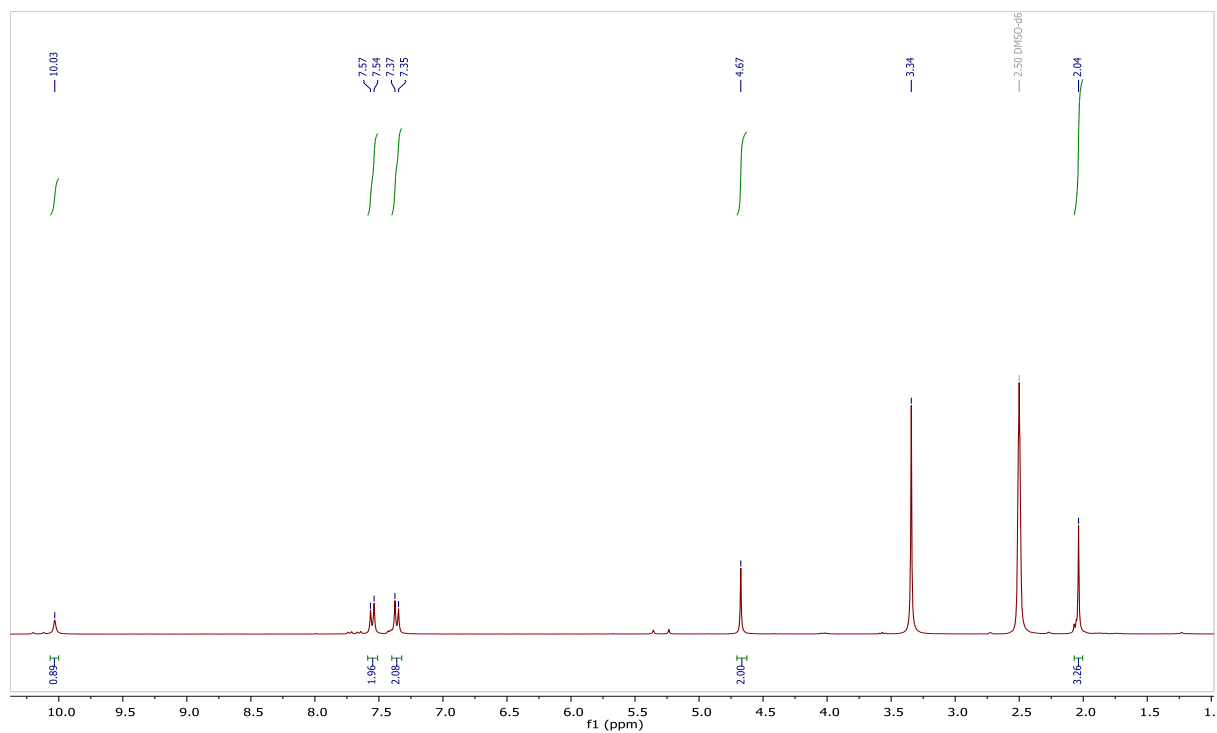
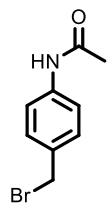
***N*-(4-(hydroxymethyl)phenyl)acetamide (1.13)-** (500 MHz, DMSO-*d*₆)



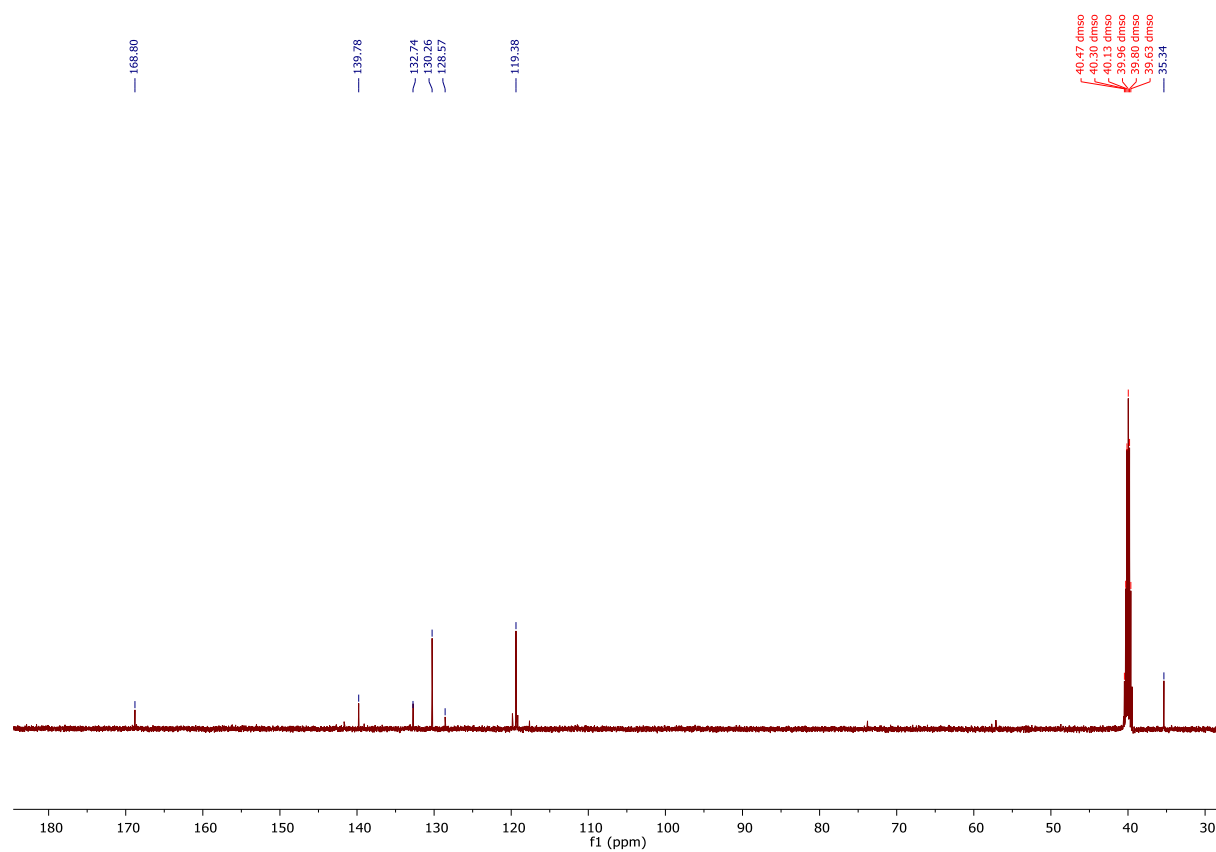
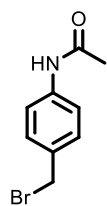
***N*-(4-(hydroxymethyl)phenyl)acetamide (1.13)-- (126 MHz, DMSO-*d*₆)**



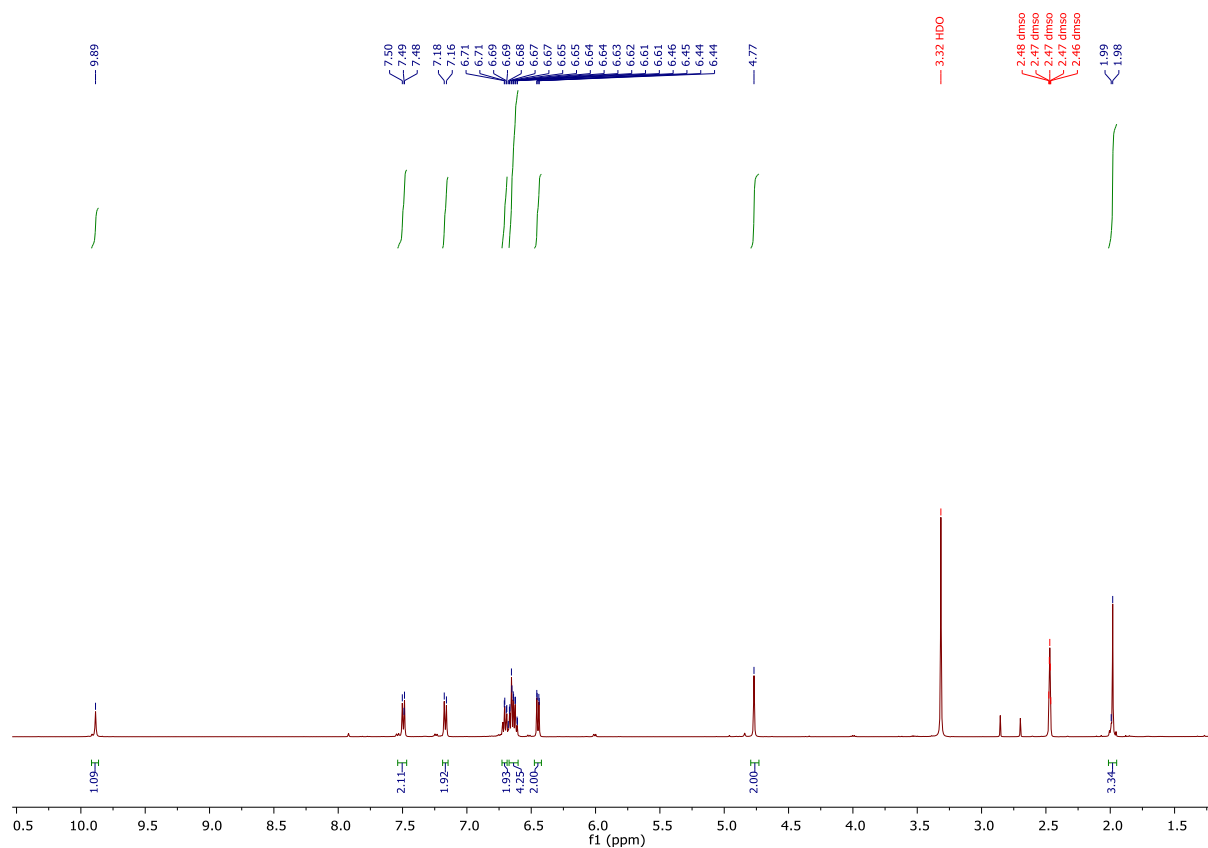
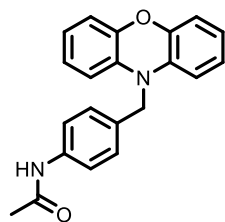
***N*-(4-(bromomethyl)phenyl)acetamide (1.14)-** (500 MHz, DMSO-*d*₆)



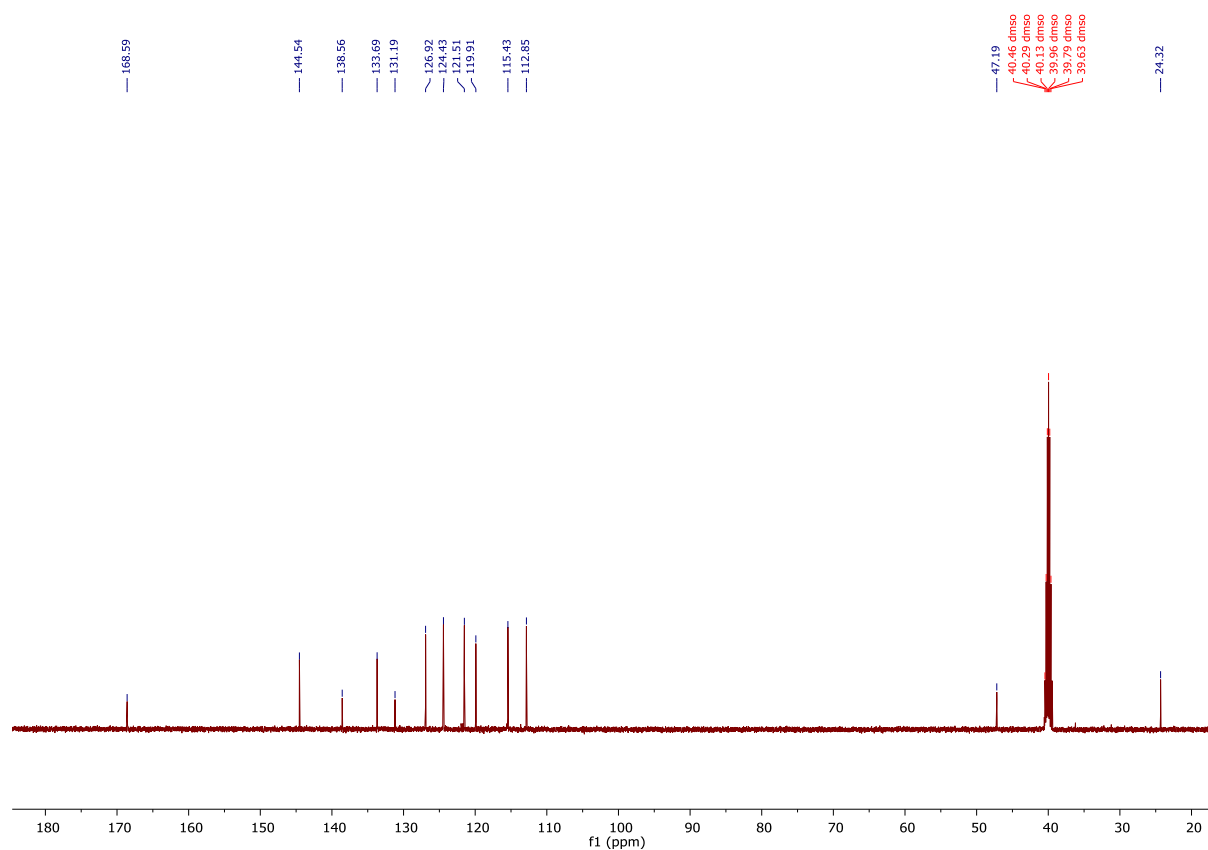
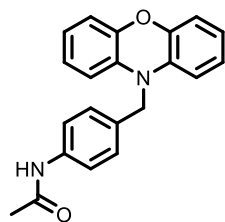
***N*-(4-(bromomethyl)phenyl)acetamide (1.14)-** (126 MHz, DMSO-*d*₆)



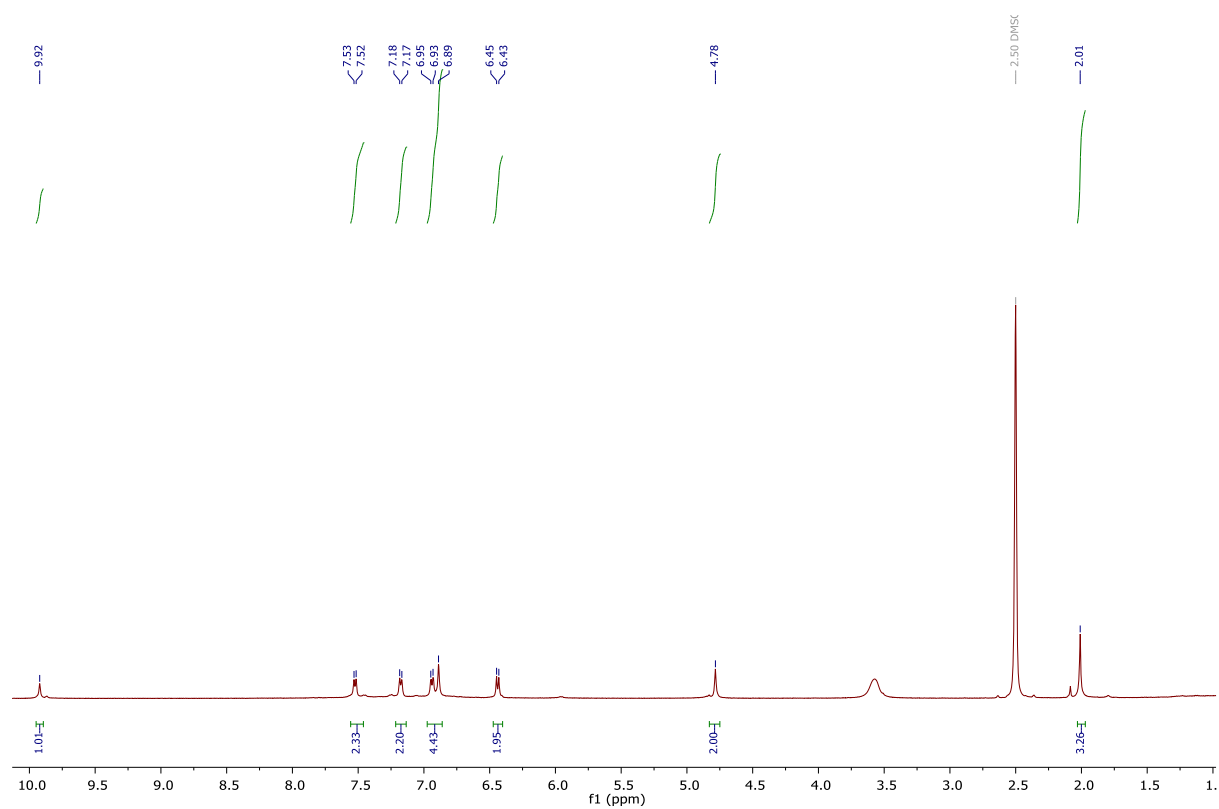
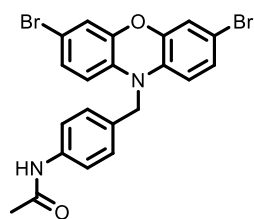
***N*-(4-((10*H*-phenoxazin-10-yl)methyl)phenyl)acetamide (1.15) -(500 MHz, DMSO-*d*₆)**



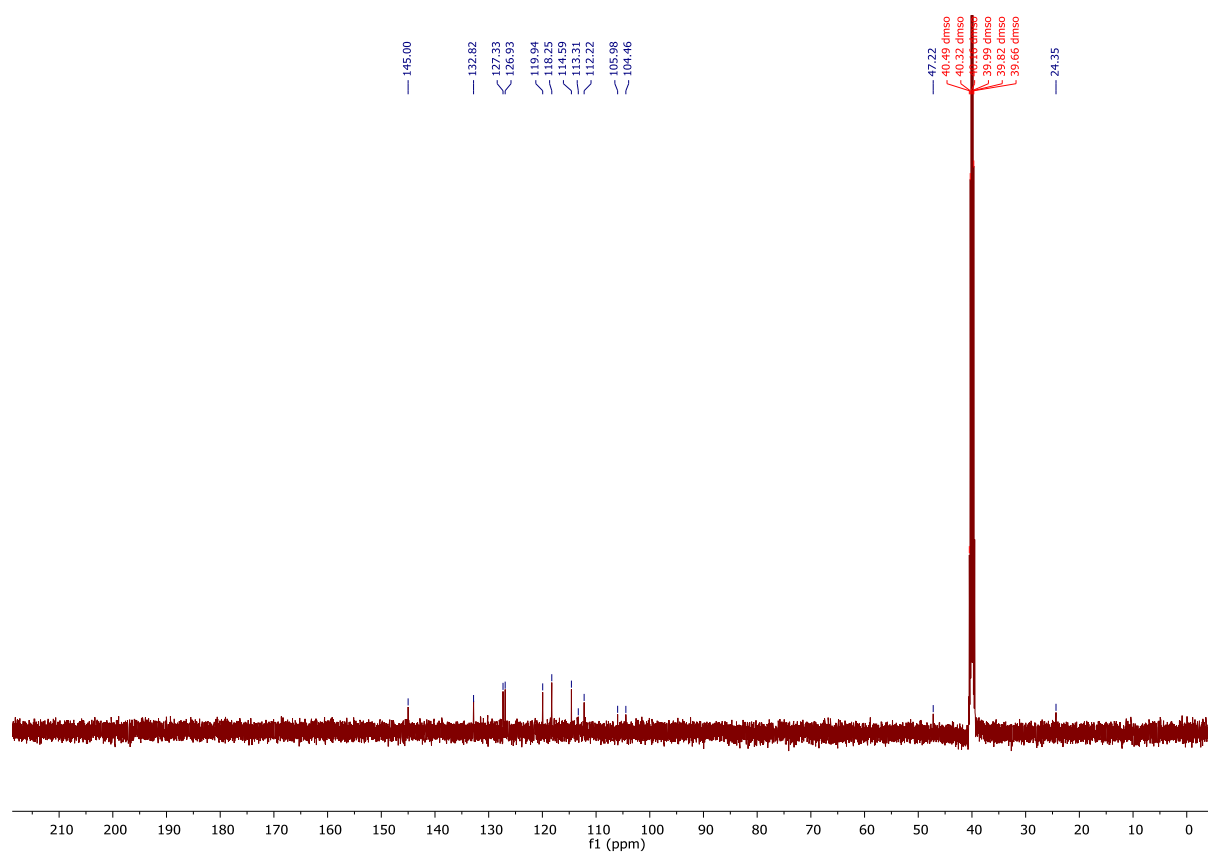
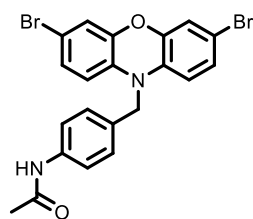
N-(4-((10*H*-phenoxazin-10-yl)methyl)phenyl)acetamide (1.15) (126 MHz, DMSO-*d*₆)



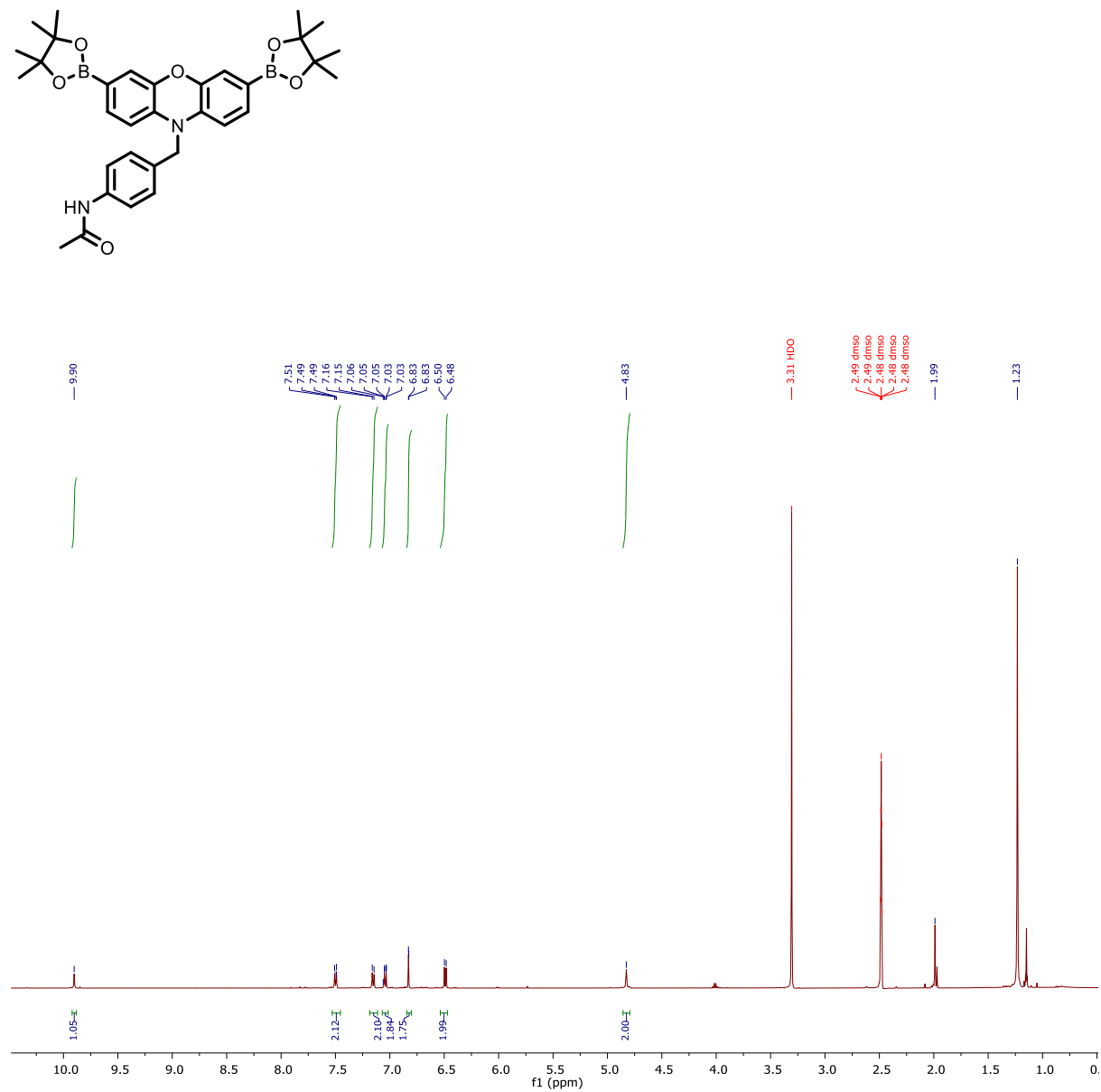
N-(4-((3,7-dibromo-10H-phenoxazin-10-yl)methyl)phenyl)acetamide (1.16)- (500 MHz, DMSO-*d*₆)



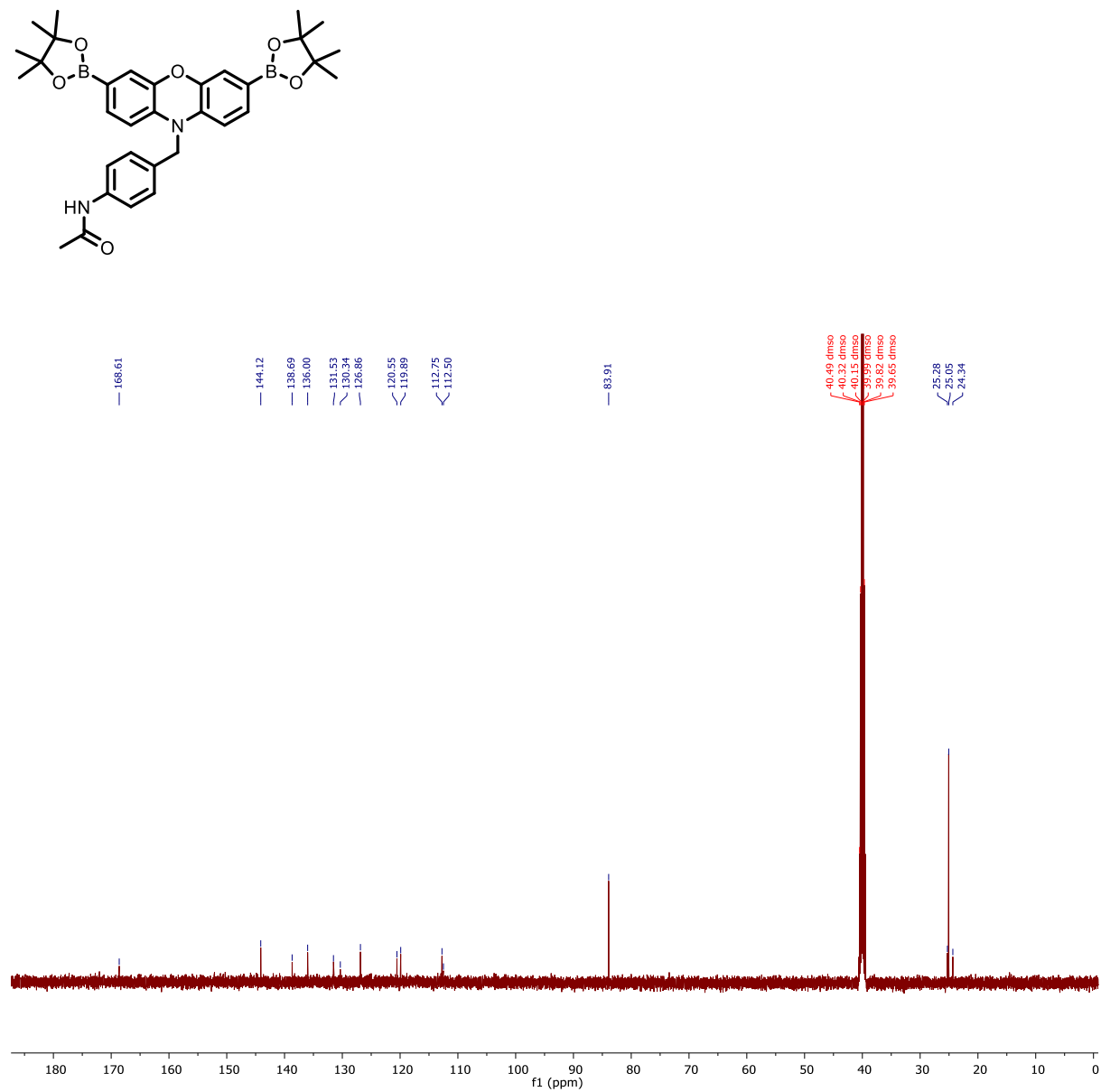
N-(4-((3,7-dibromo-10*H*-phenoxazin-10-yl)methyl)phenyl)acetamide (1.16)- (126 MHz, DMSO-*d*₆)



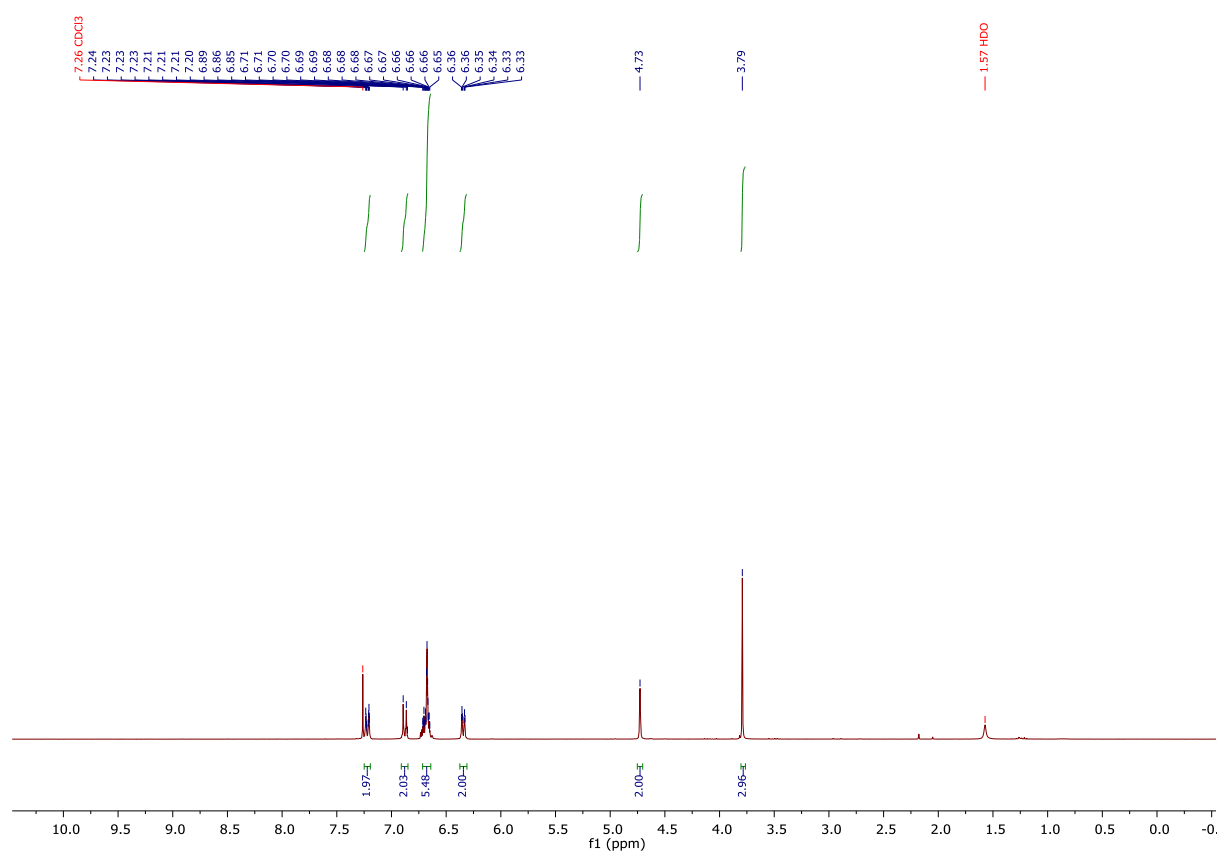
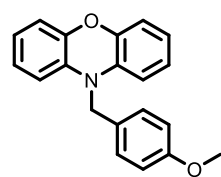
N-(4-((3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10H-phenoxazin-10-yl)methyl)phenyl)acetamide (1.17) (126 MHz, DMSO-*d*₆)



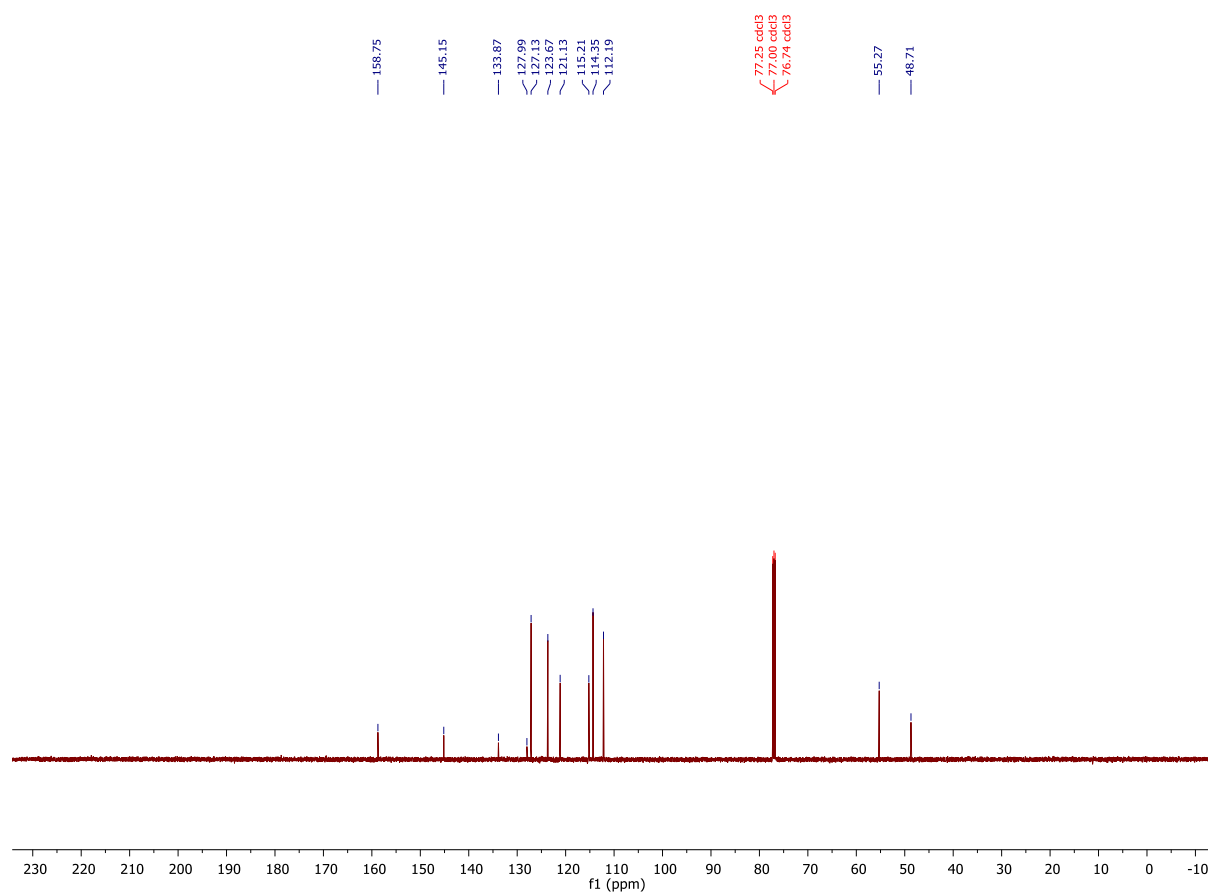
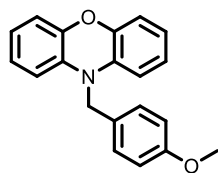
N-(4-((3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazin-10-yl)methyl)phenyl)acetamide (1.17) (500 MHz, DMSO-*d*₆)



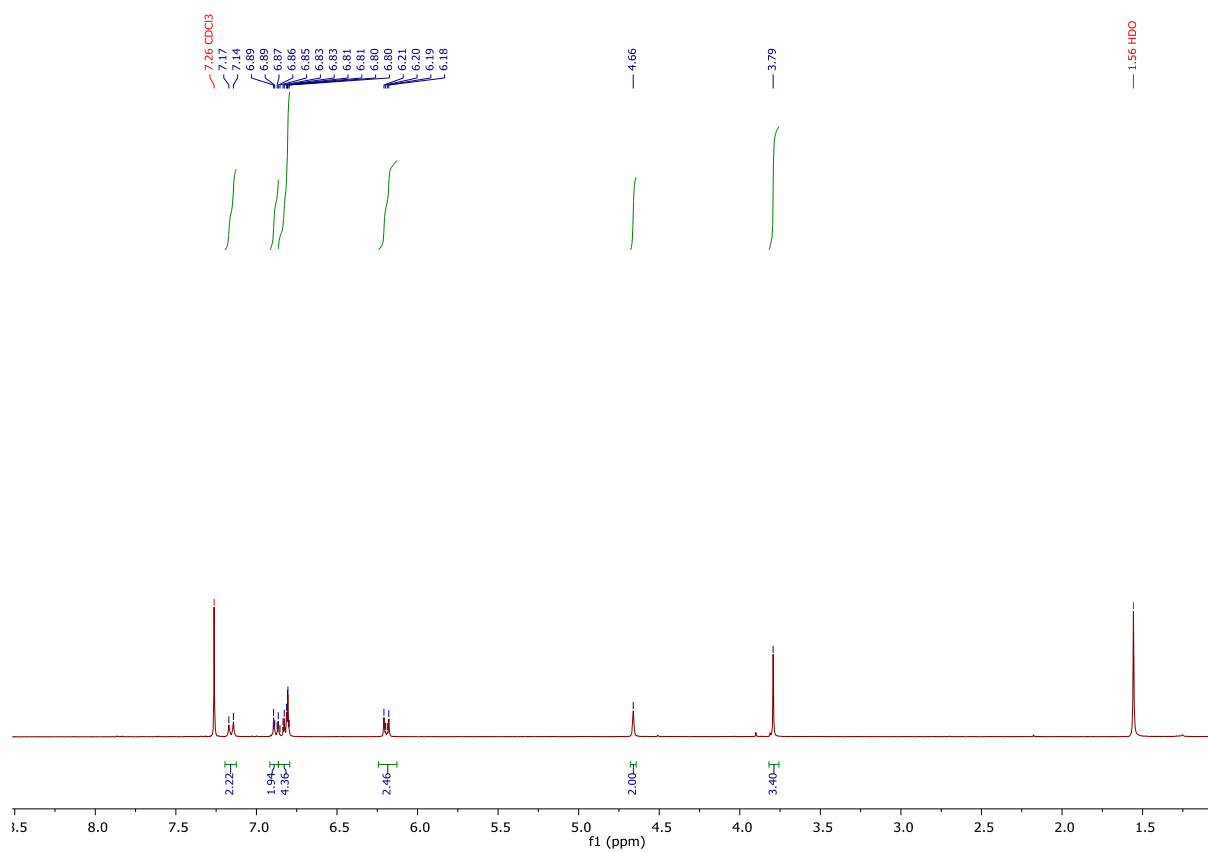
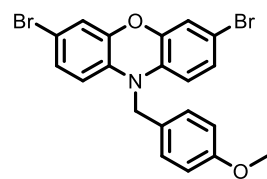
10-(4-methoxybenzyl)-10*H*-phenoxazine (1.22) (300 MHz, CDCl₃)



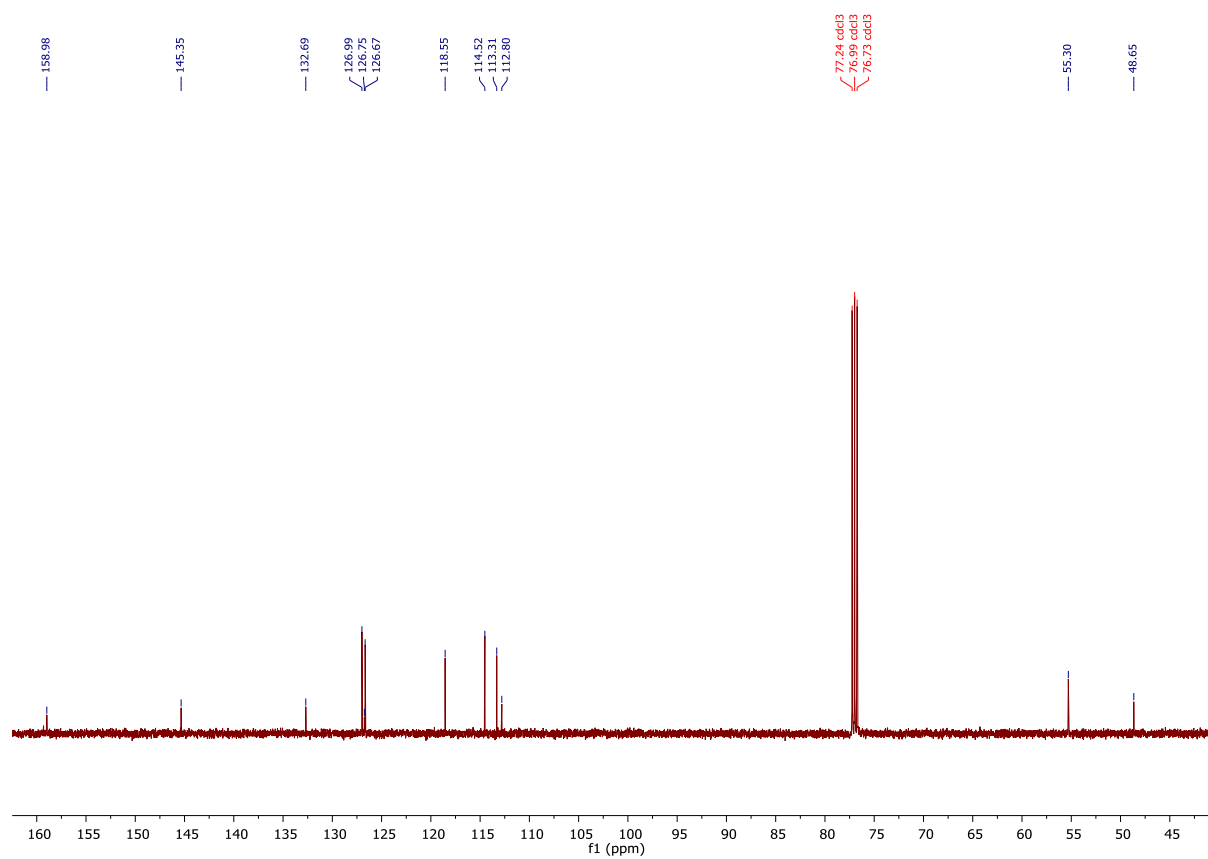
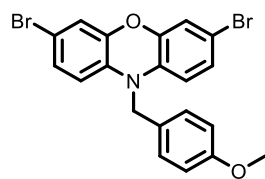
10-(4-methoxybenzyl)-10*H*-phenoxazine (1.22) (75 MHz, CDCl₃)



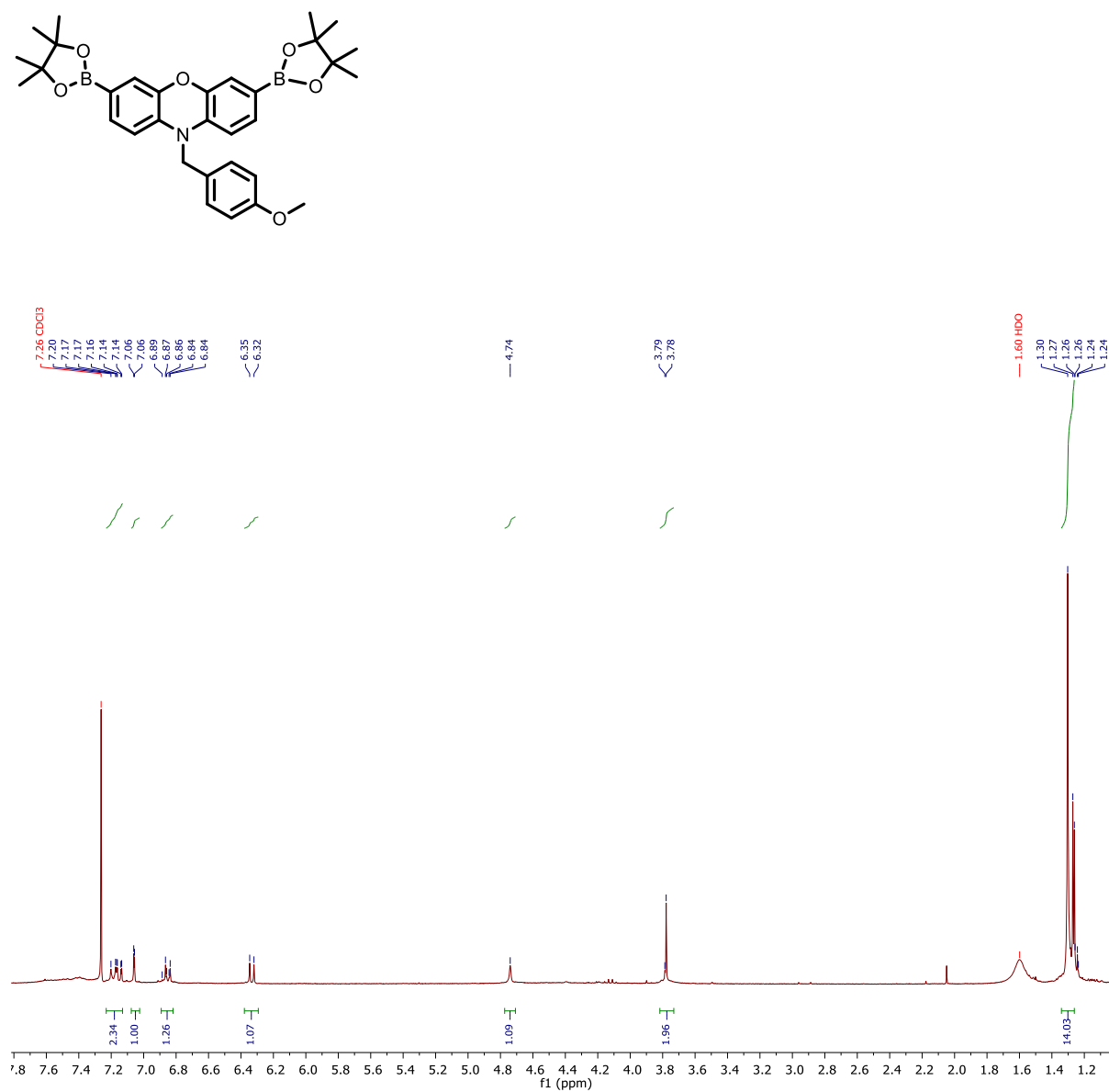
3,7-dibromo-10-(4-methoxybenzyl)-10H-phenoxazine (1.23) (300 MHz, CDCl₃)



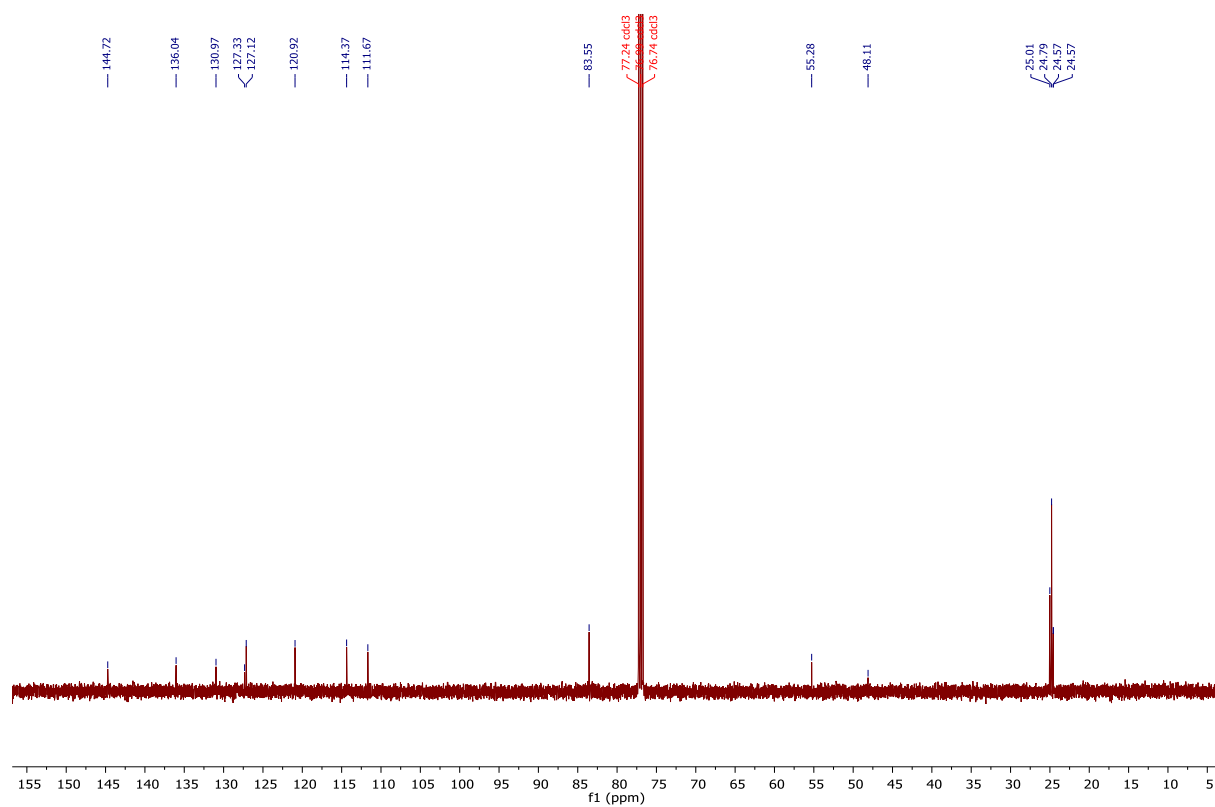
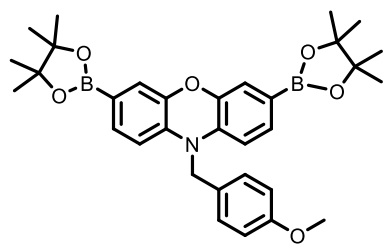
3,7-dibromo-10-(4-methoxybenzyl)-10H-phenoxazine (1.23) (75 MHz, CDCl₃)



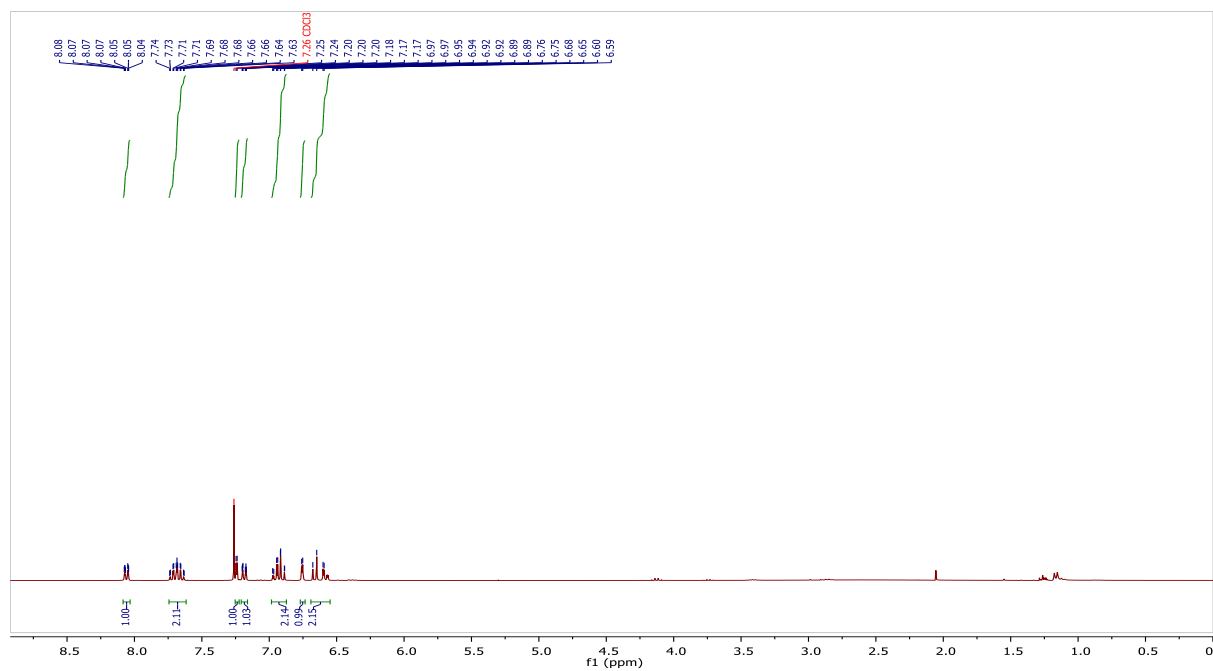
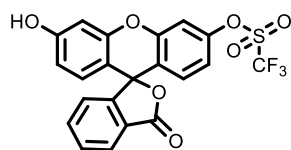
10-(4-methoxybenzyl)-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazine
(1.24) (300 MHz, CDCl₃)



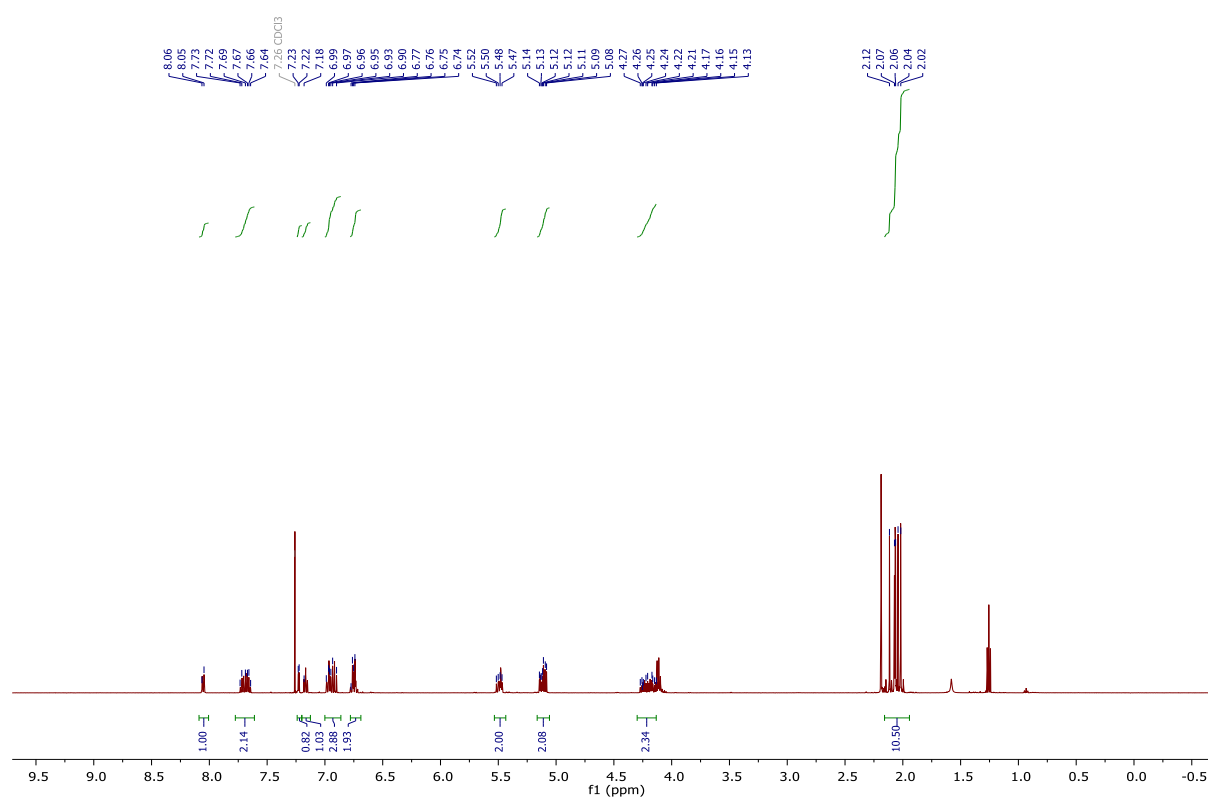
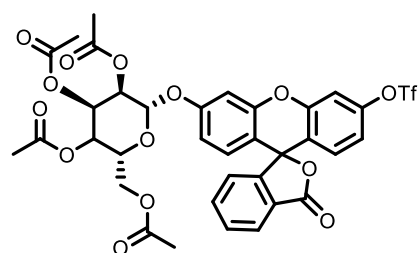
10-(4-methoxybenzyl)-3,7-bis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-10*H*-phenoxazine (1.24) (75 MHz, CDCl₃)



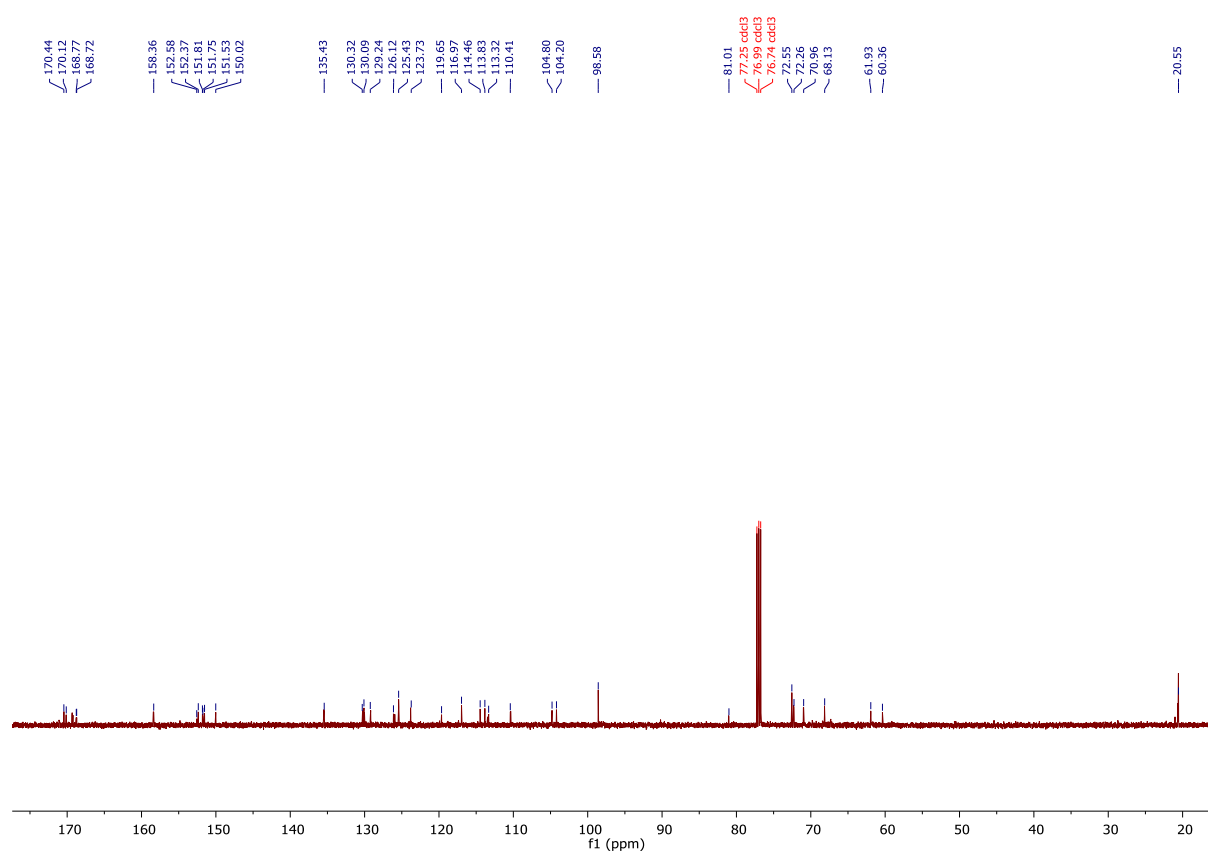
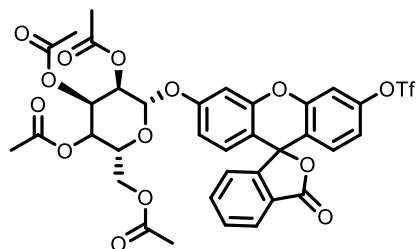
3'-hydroxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl trifluoromethanesulfonate (2.1)-
(300 MHz, CDCl₃)



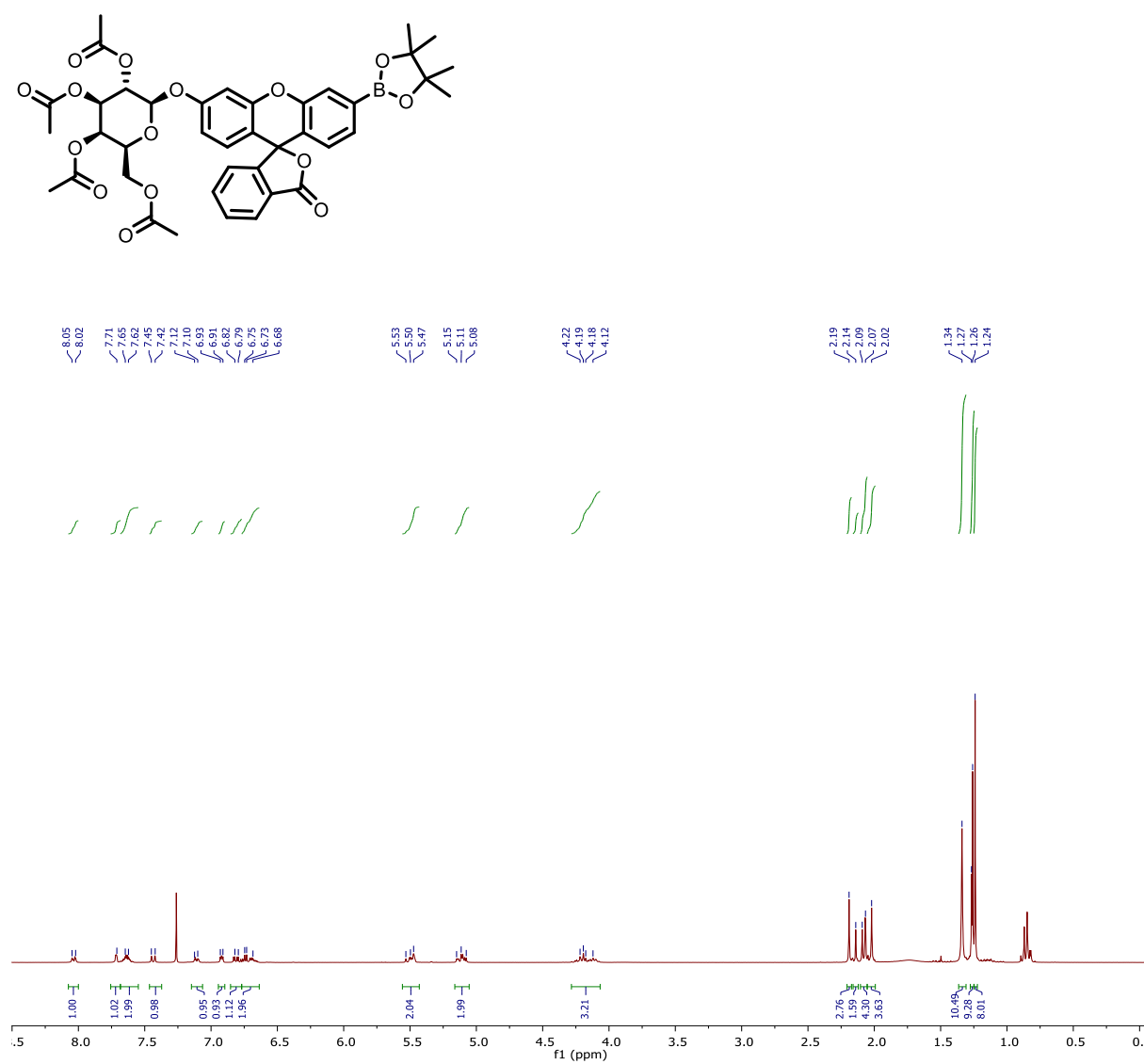
(2R,4R,5R,6S)-2-(acetoxymethyl)-6-((3-oxo-3'-(((trifluoromethyl)sulfonyl)oxy)-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (2.2)-
(500 MHz, CDCl₃)



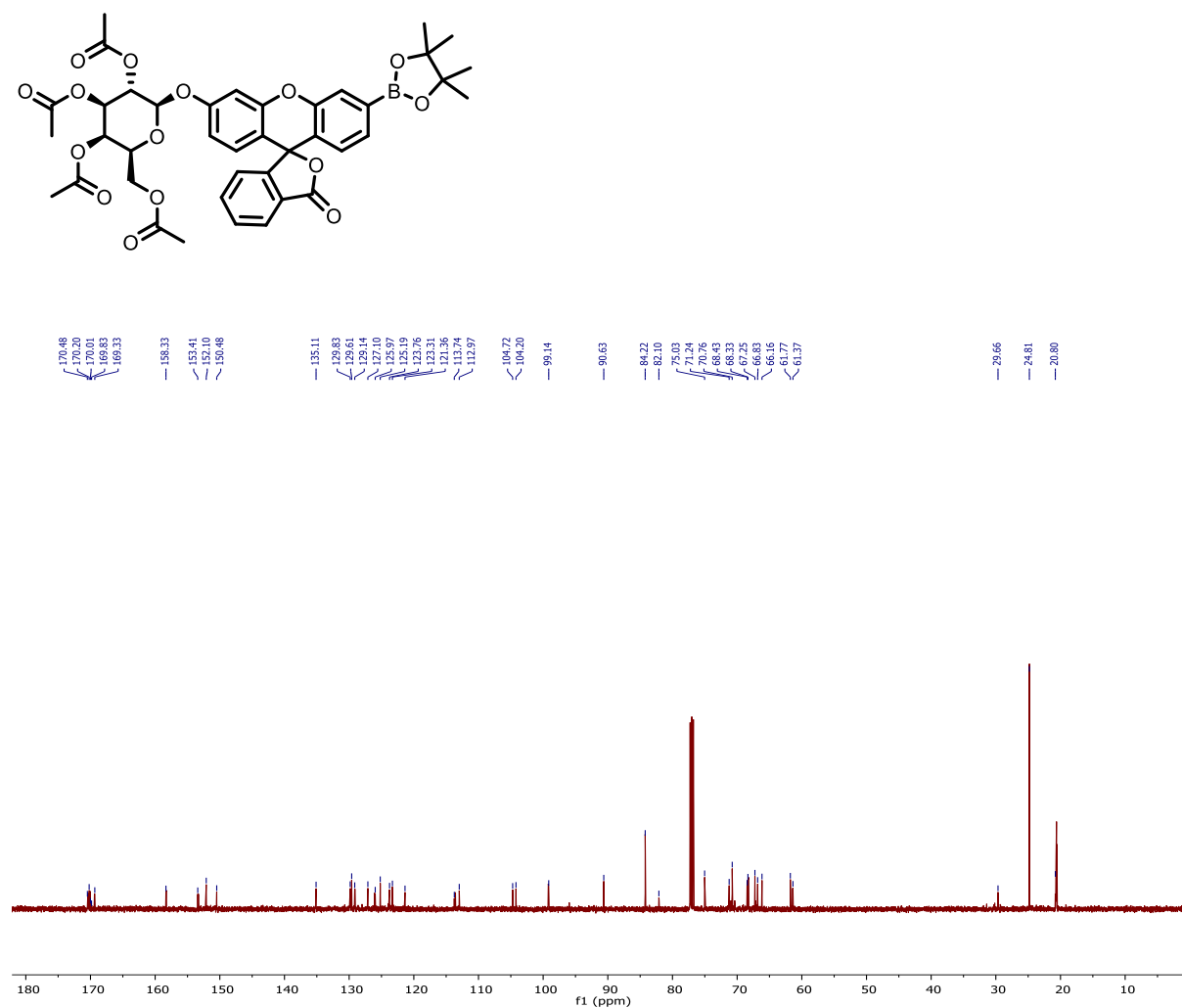
(2R,4R,5R,6S)-2-(acetoxymethyl)-6-((3-oxo-3'-(((trifluoromethyl)sulfonyl)oxy)-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (2.2) -
(126 MHz, CDCl₃)



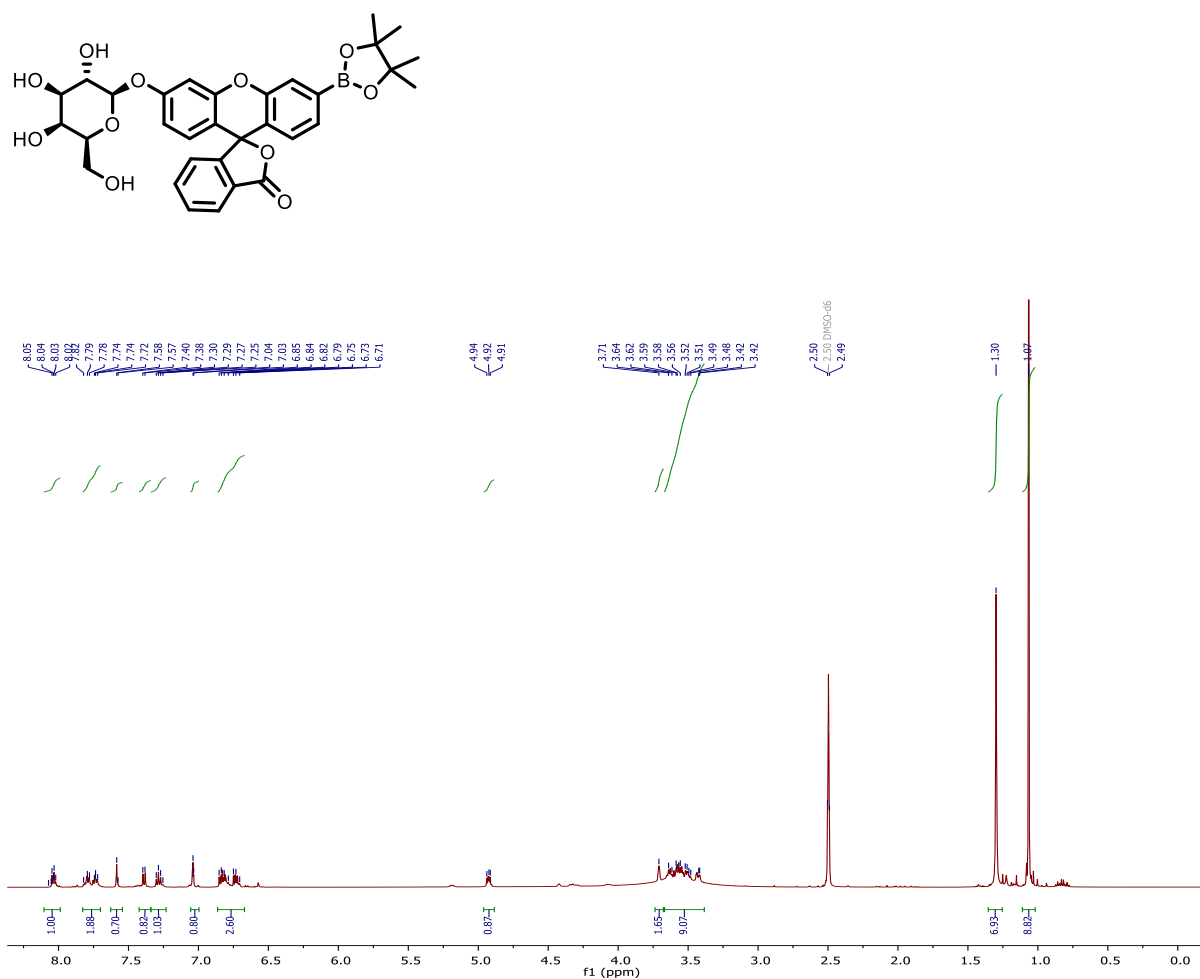
(2S,3R,4R,5S,6R)-2-(acetoxymethyl)-6-((3-oxo-3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.3)
(300 MHz, CDCl₃).



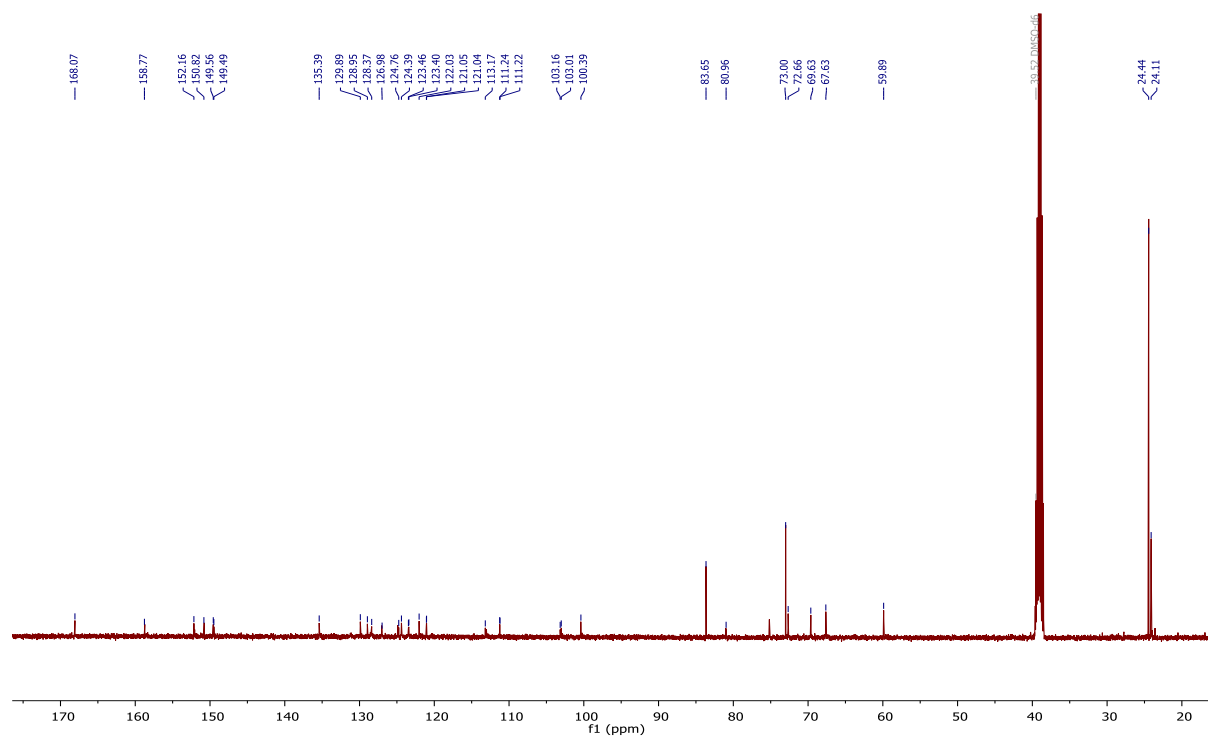
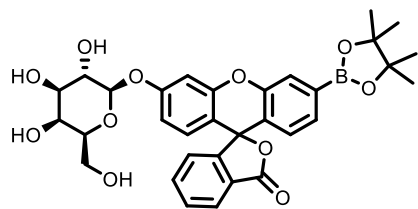
(2*S*,3*R*,4*R*,5*S*,6*R*)-2-(acetoxymethyl)-6-((3-oxo-3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (2.3)
(126 MHz, CDCl₃).

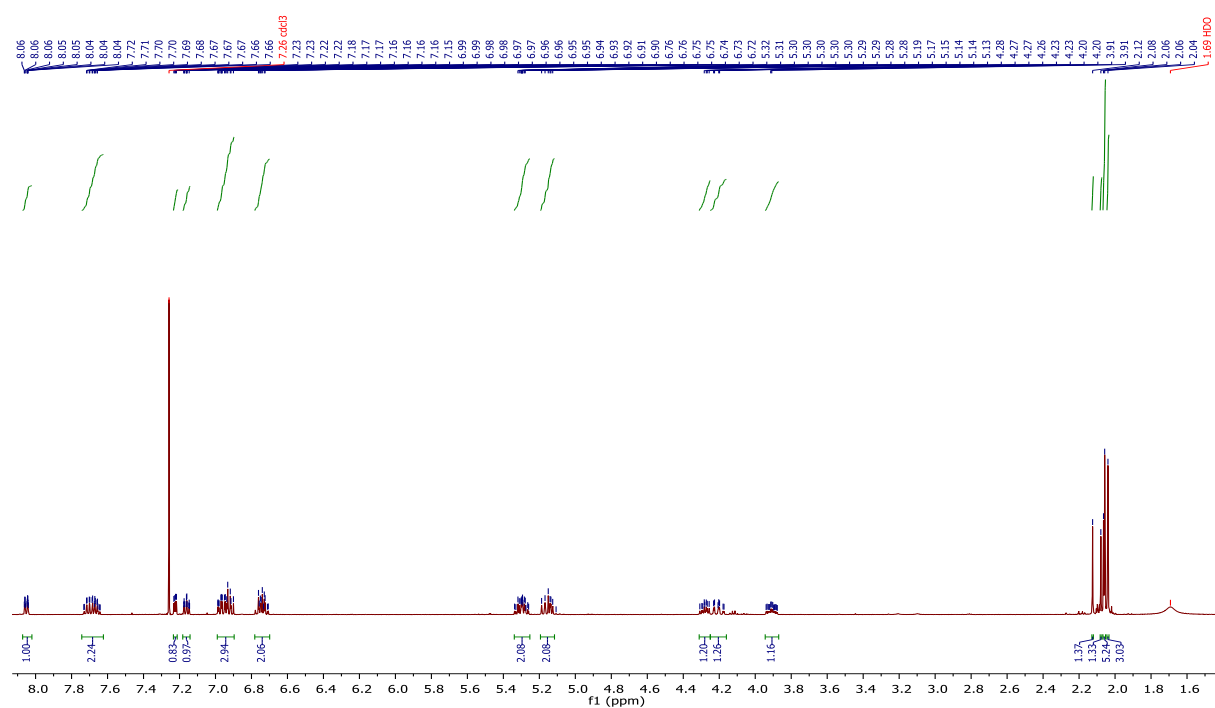


3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6'-(((2R,3S,4R,5S,6S)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one
(Gal-PF3) (500 MHz, DMSO-*d*₆)

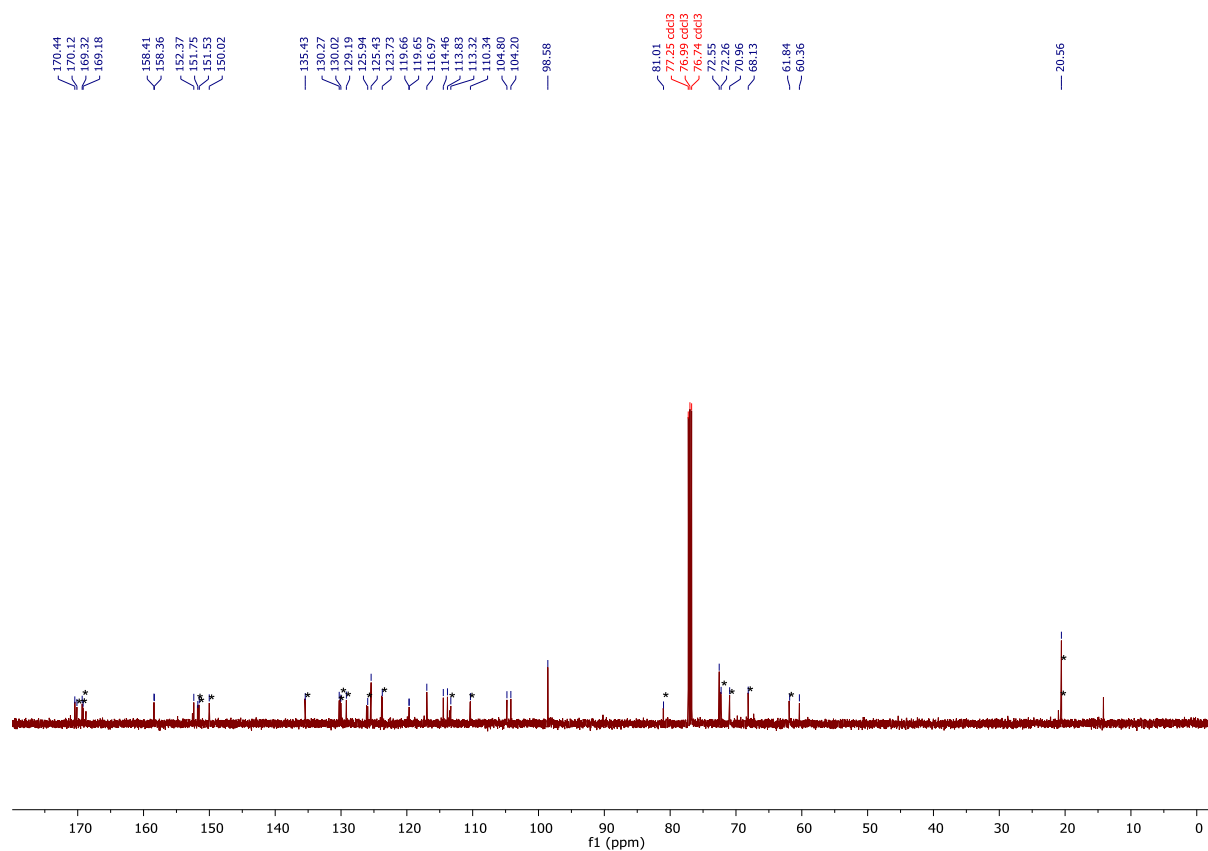
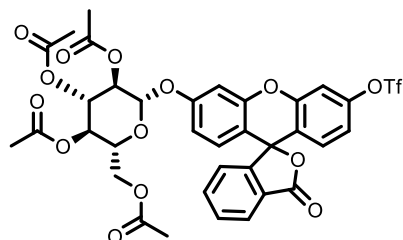


3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6'-(((2R,3S,4R,5S,6S)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one
(Gal-PF3) (126 MHz, DMSO-*d*₆)

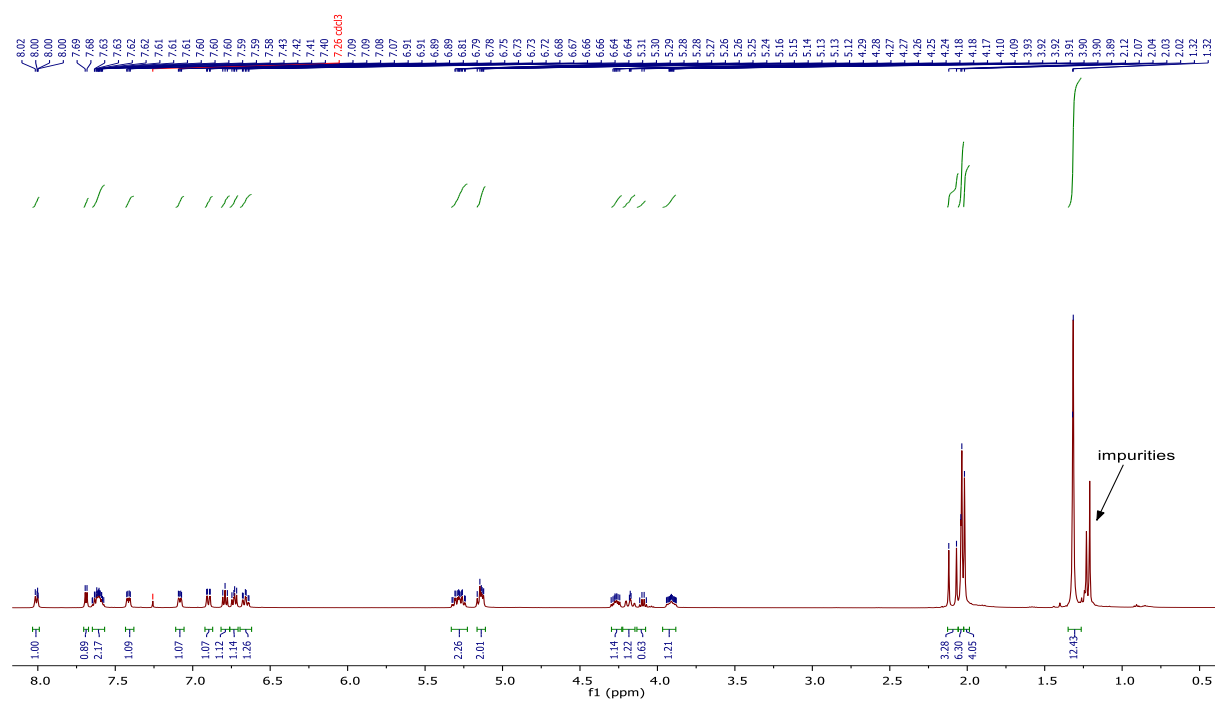
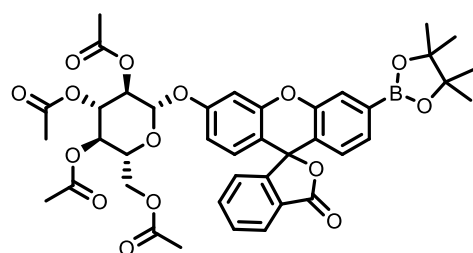




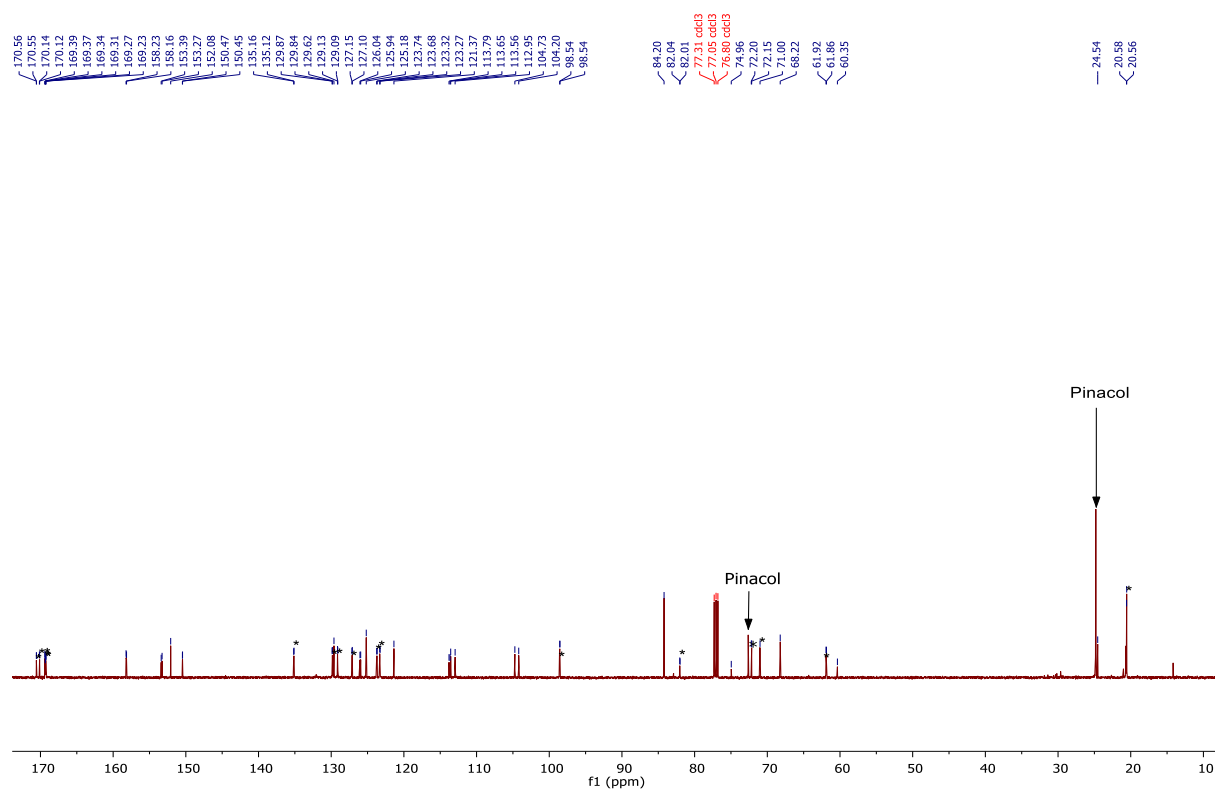
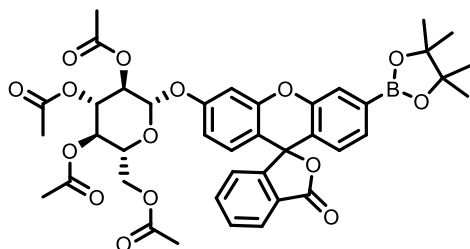
(2R,3R,4S,5R,6S)-2-(acetoxymethyl)-6-((3-oxo-3'-(((trifluoromethyl)sulfonyl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.5)-
(126 MHz, CDCl₃)



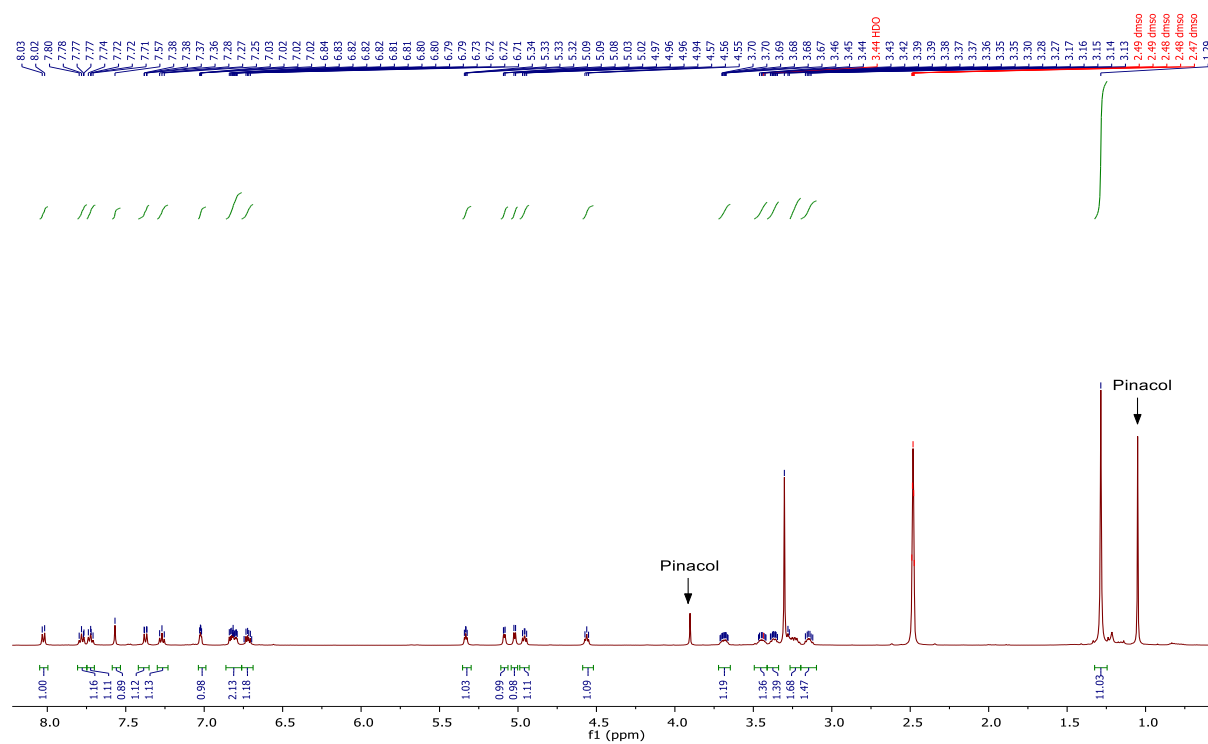
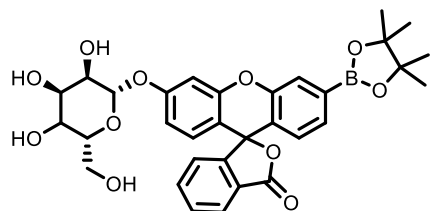
(2R,3R,4S,5R,6S)-2-(acetoxymethyl)-6-((3-oxo-3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.6)
(300 MHz, CDCl₃)



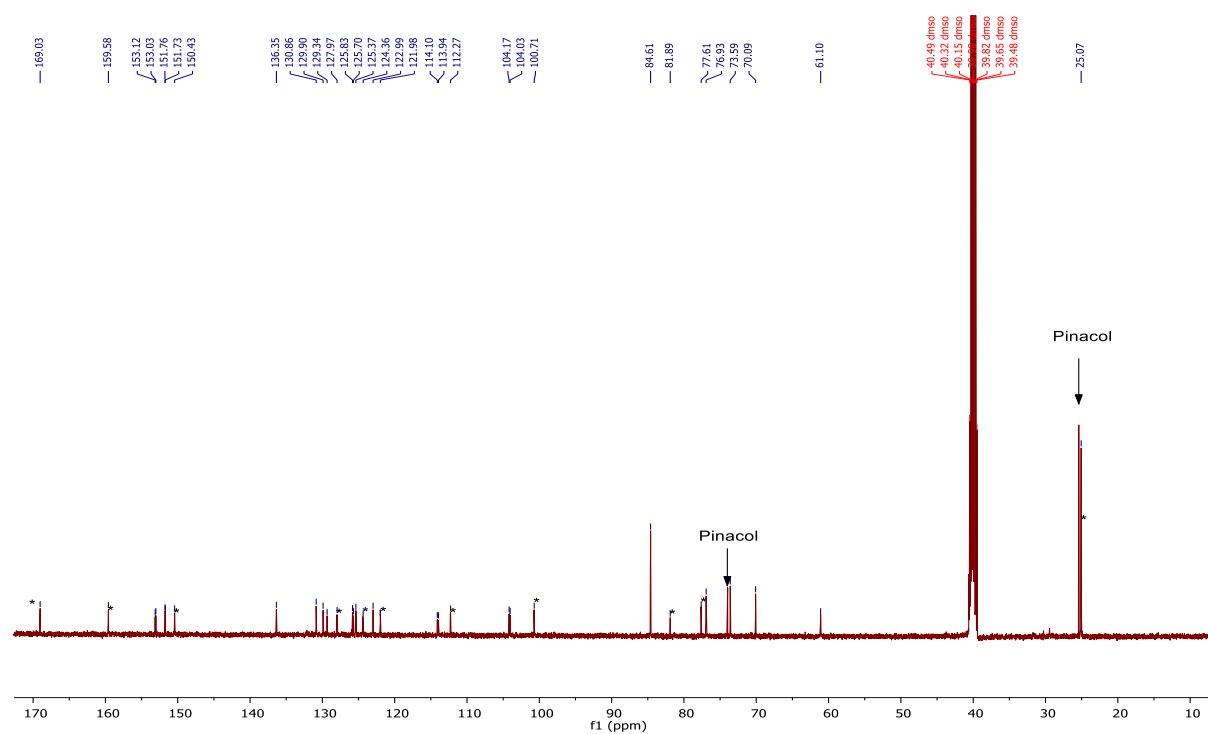
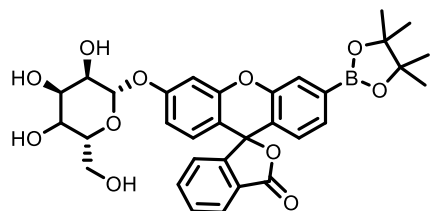
(2R,3R,4S,5R,6S)-2-(acetoxymethyl)-6-((3-oxo-3'-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.6)
(300 MHz, CDCl₃)



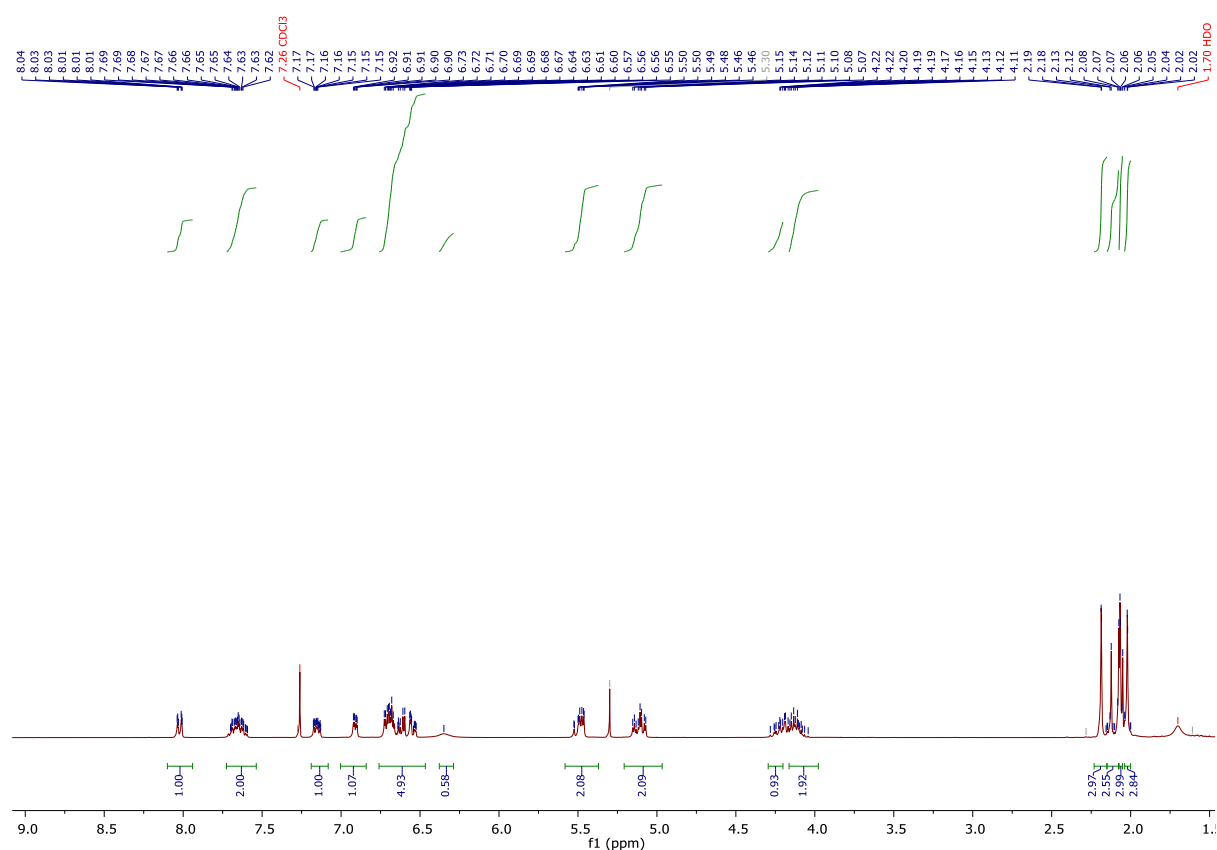
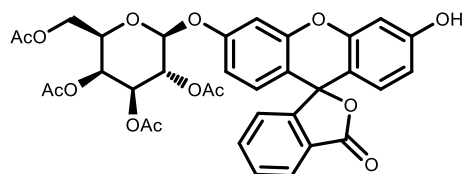
-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6'-(((2S,3R,4R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one
(Glc-PF3) (500 MHz, DMSO-*d*₆)



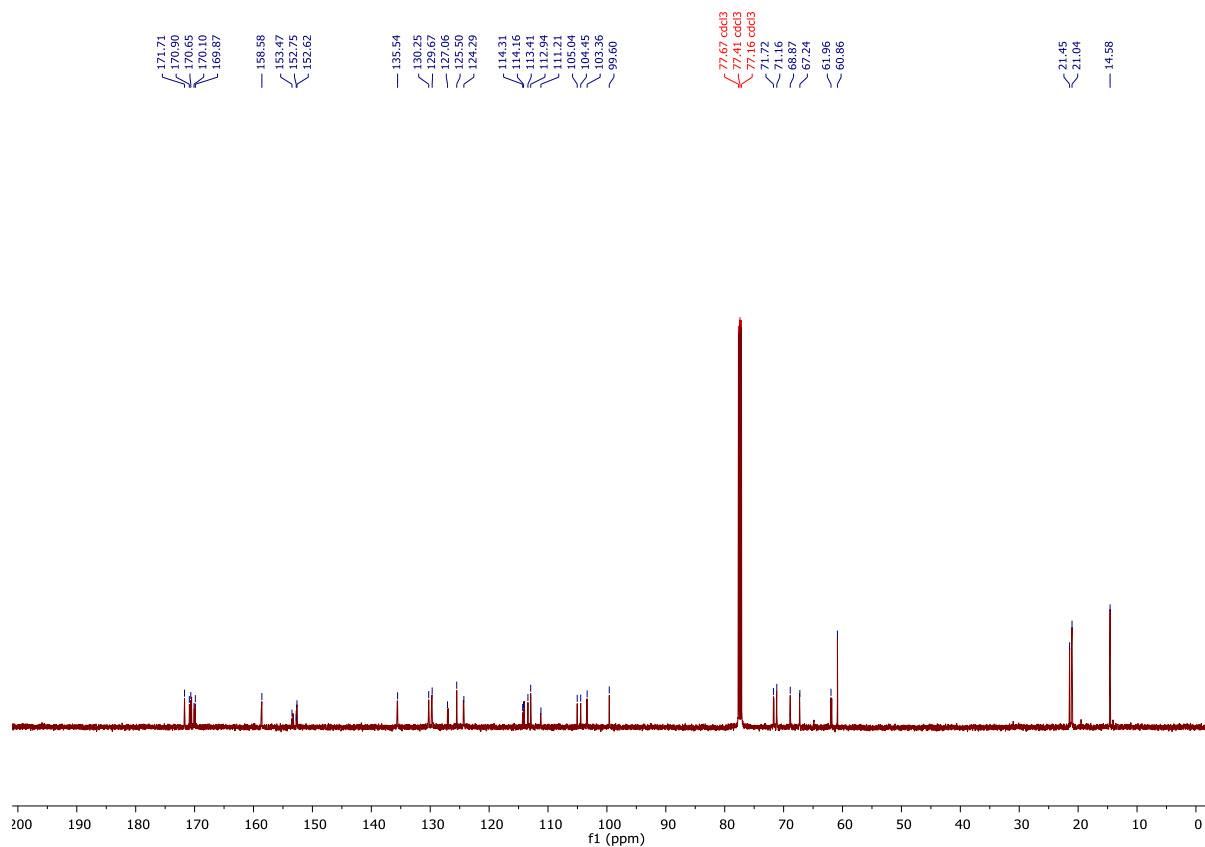
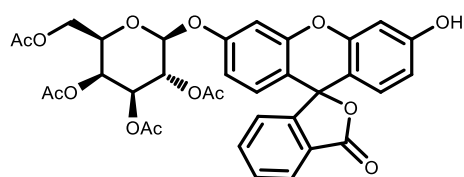
-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)-6'-(((2S,3R,4R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one (Glc-PF3)- (500 MHz, DMSO-*d*₆)



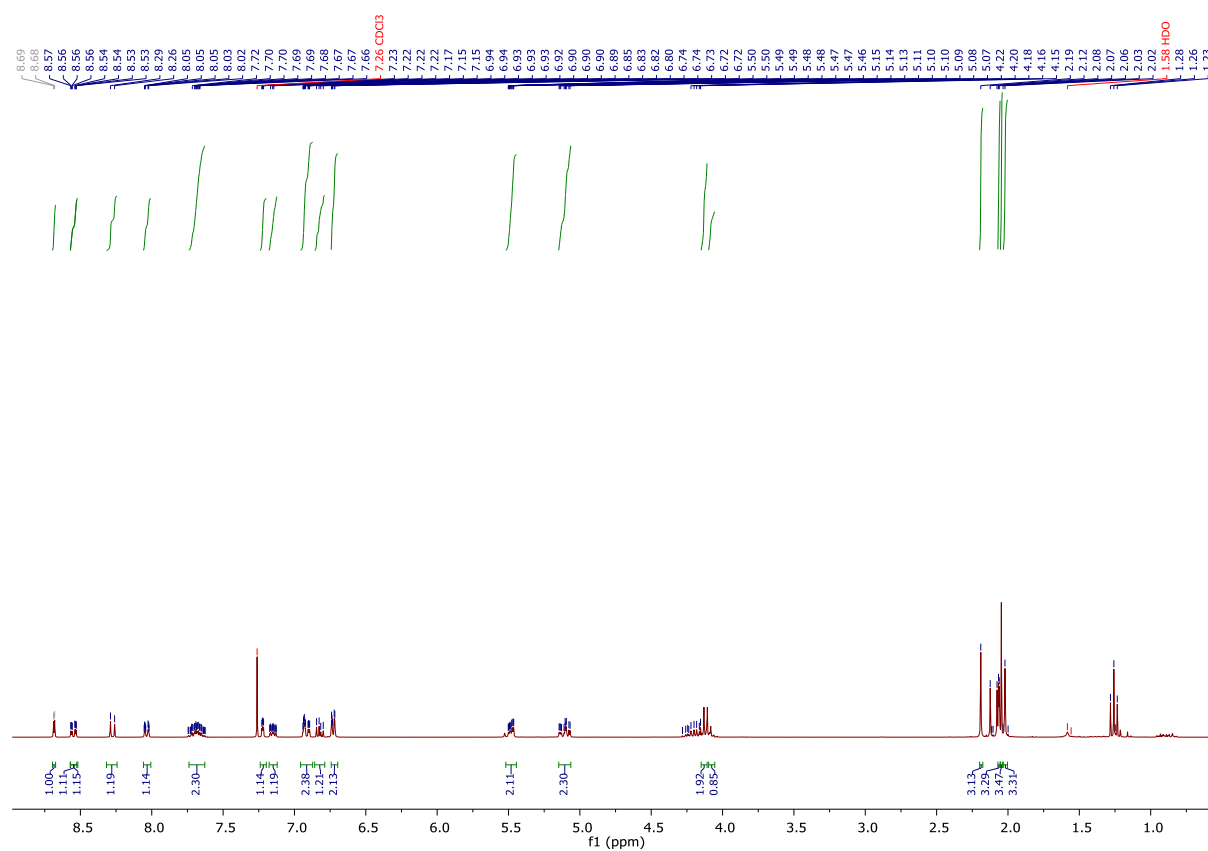
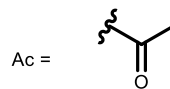
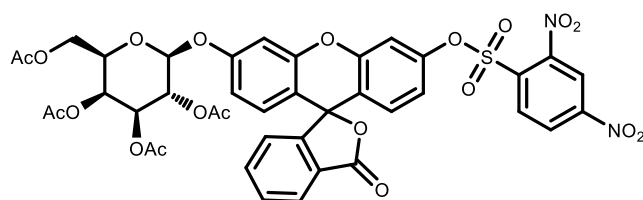
(2R,3R,4S,5R)-2-(acetoxymethyl)-6-((3'-hydroxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.10) – (300 MHz, CDCl₃)



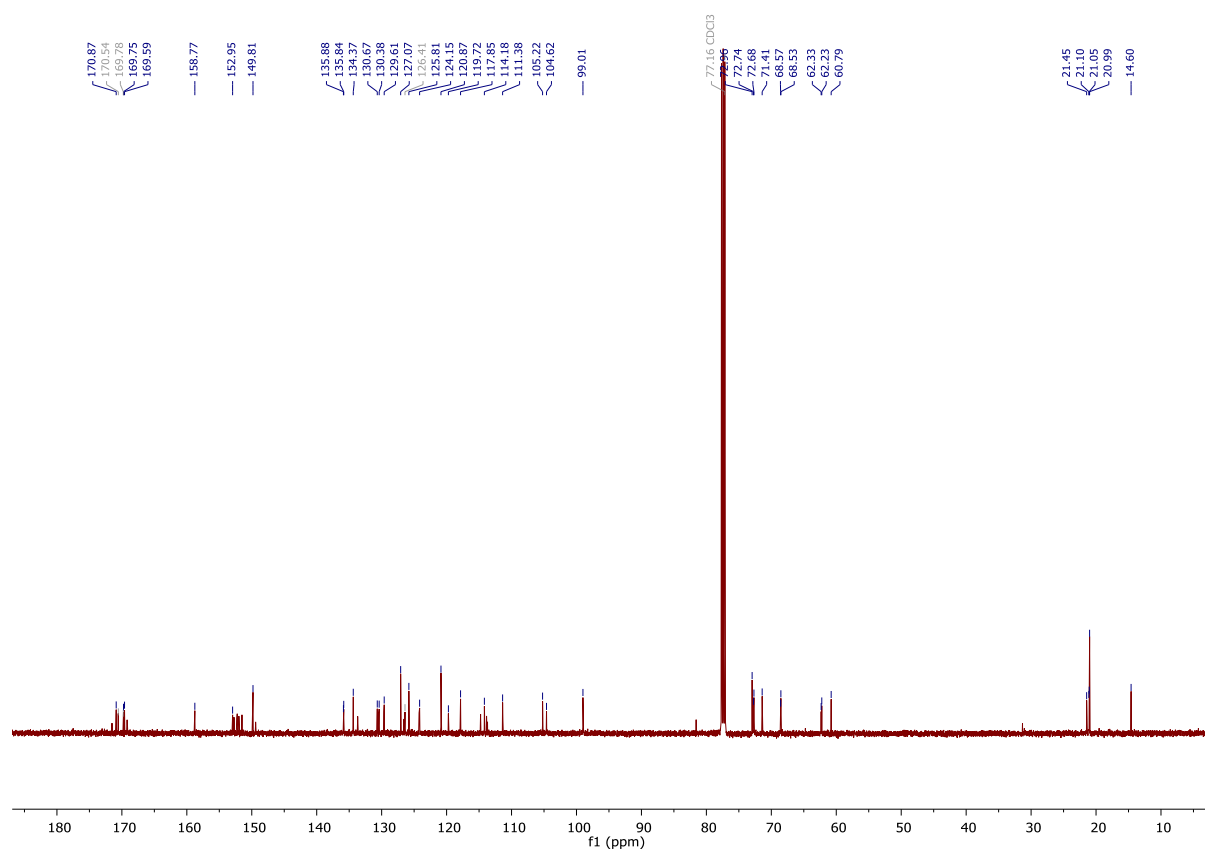
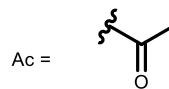
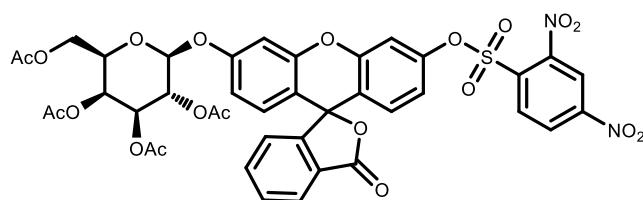
(2R,3R,4S,5R)-2-(acetoxymethyl)-6-((3'-hydroxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.10) – (126 MHz, CDCl₃)



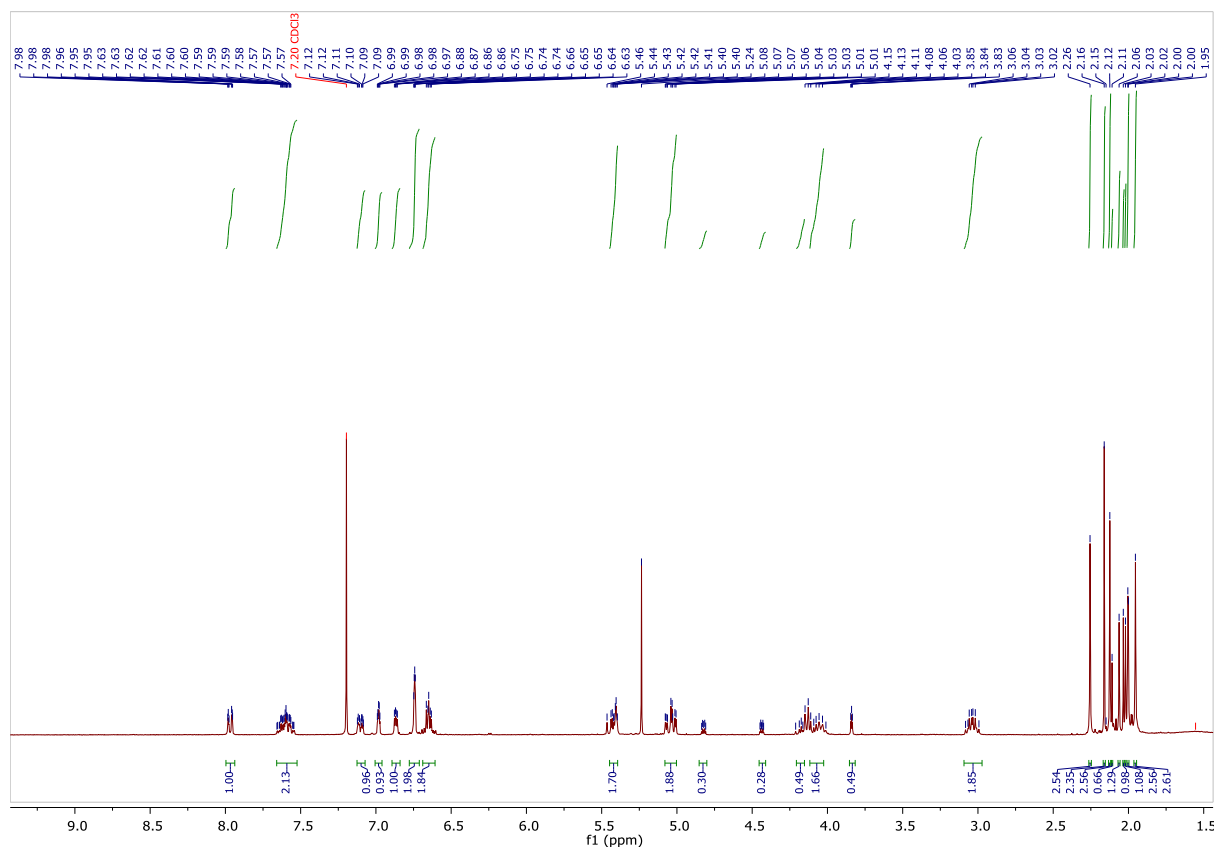
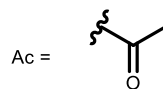
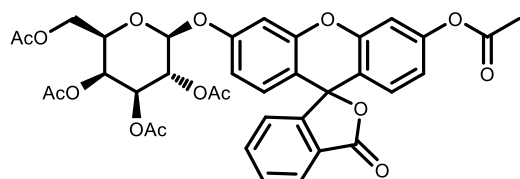
(2R,3S,4S,5R)-2-(acetoxymethyl)-6-(((3'-(((2,4-dinitrophenyl)sulfonyl)oxy)-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.11)-
(300 MHz, CDCl₃)



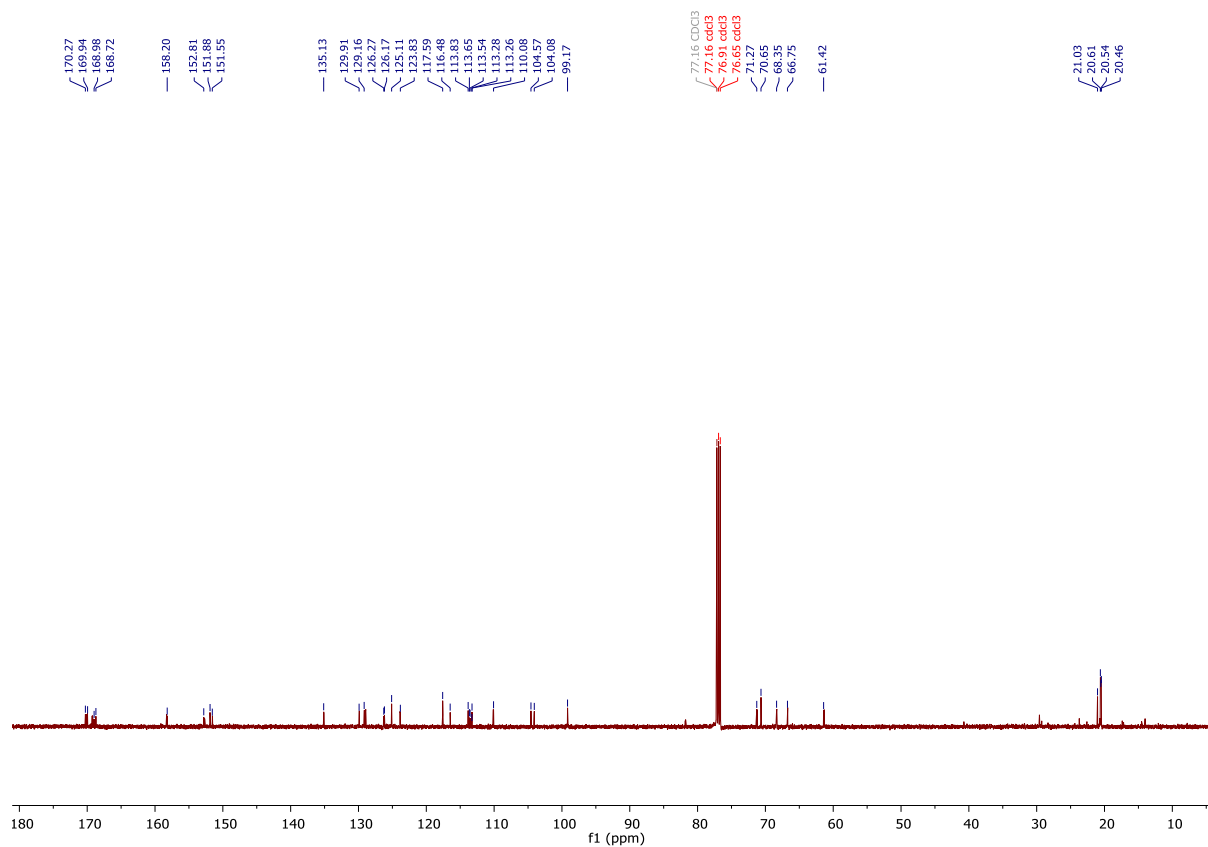
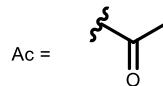
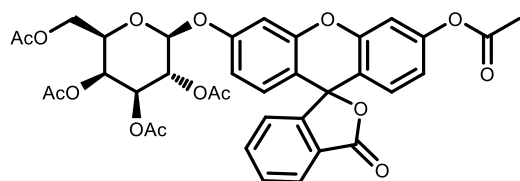
(2R,3S,4S,5R)-2-(acetoxymethyl)-6-((3'-(((2,4-dinitrophenyl)sulfonyl)oxy)-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (2.11)-
(126 MHz, CDCl₃)



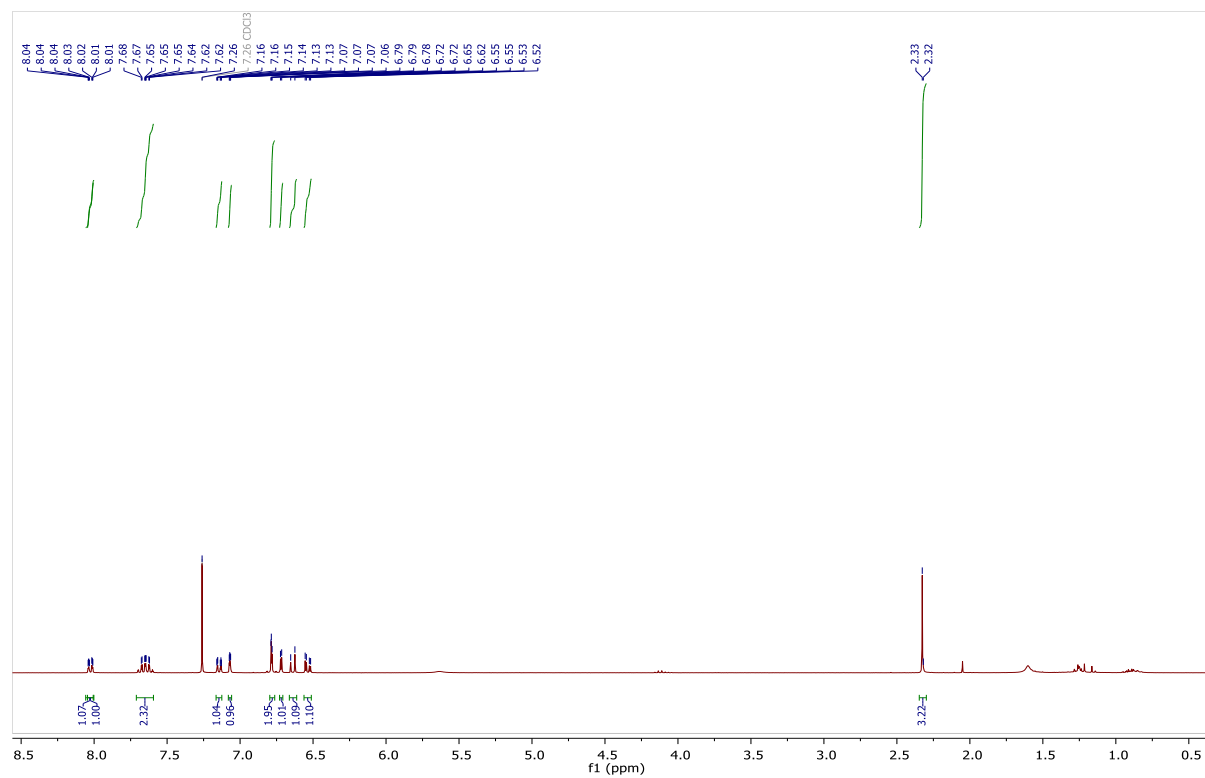
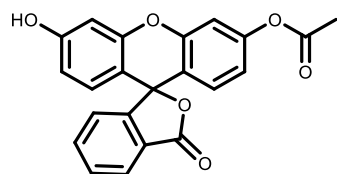
(3R,4S,5S,6R)-2-((3'-acetoxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)-6-(acetoxymethyl)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (MO.F-2)- (300 MHz, CDCl₃)



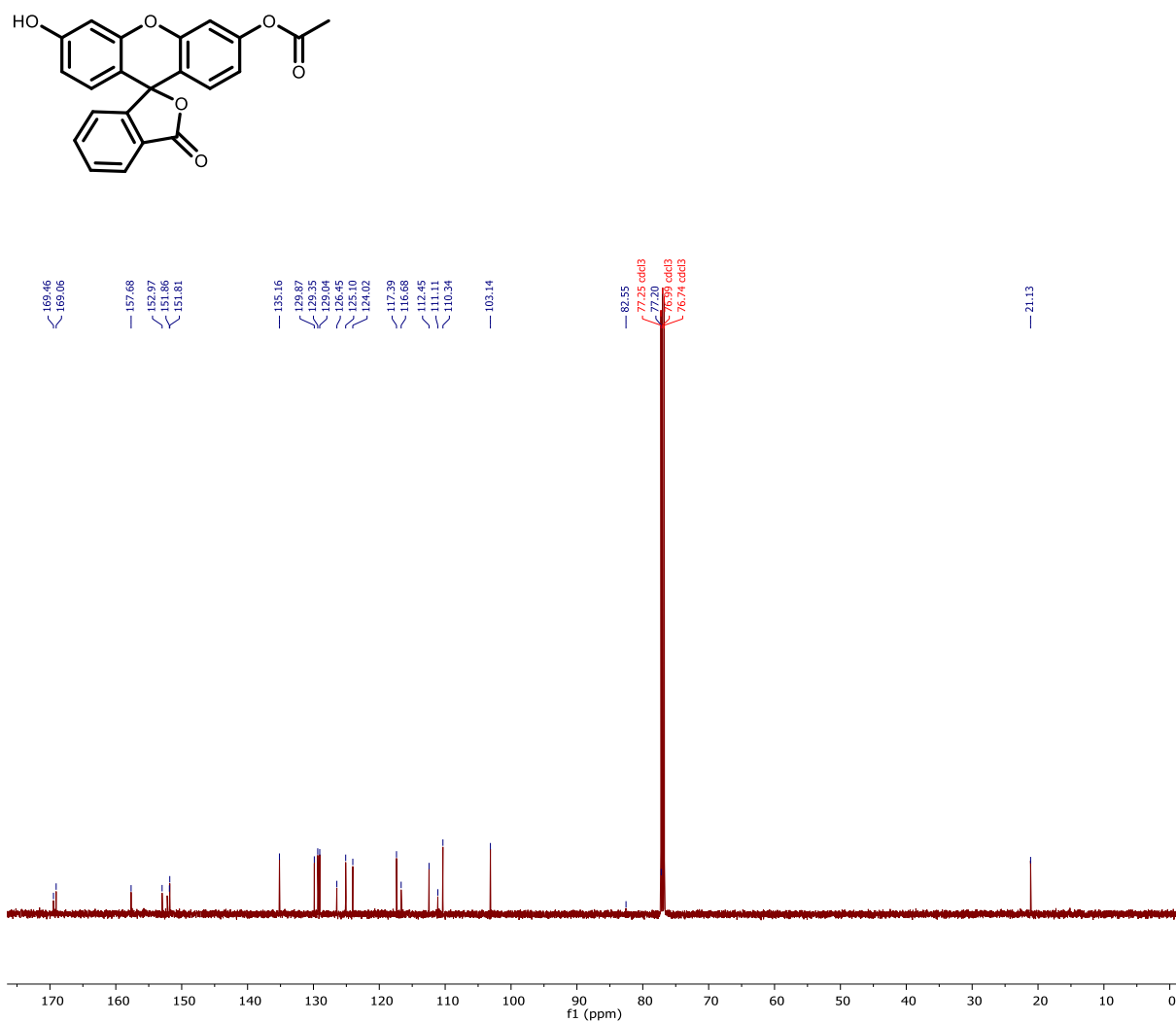
(3R,4S,5S,6R)-2-((3'-acetoxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)-6-(acetoxymethyl)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (MO.F-2)- (126 MHz, CDCl₃)



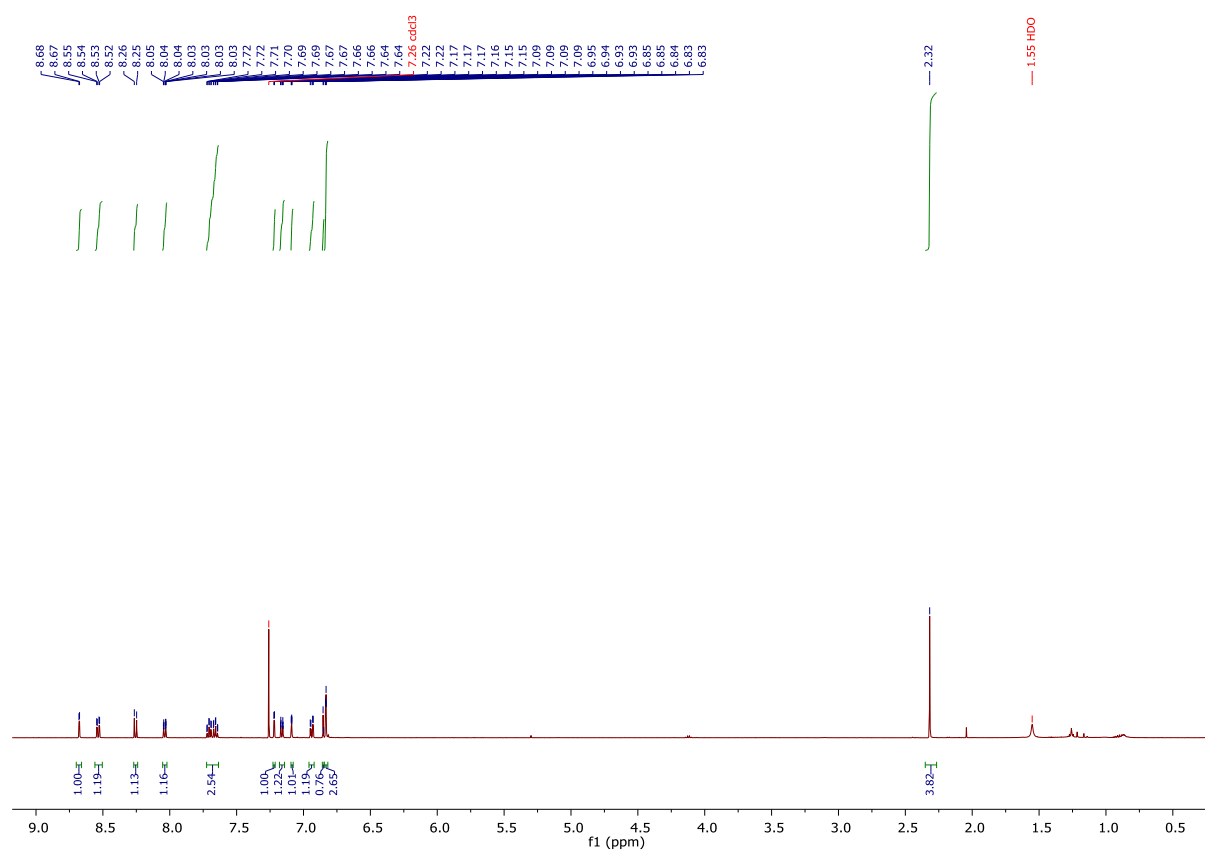
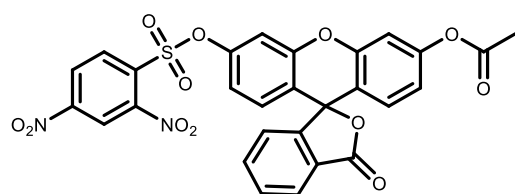
3'-hydroxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl acetate (2.16)- (300 MHz, CDCl₃)



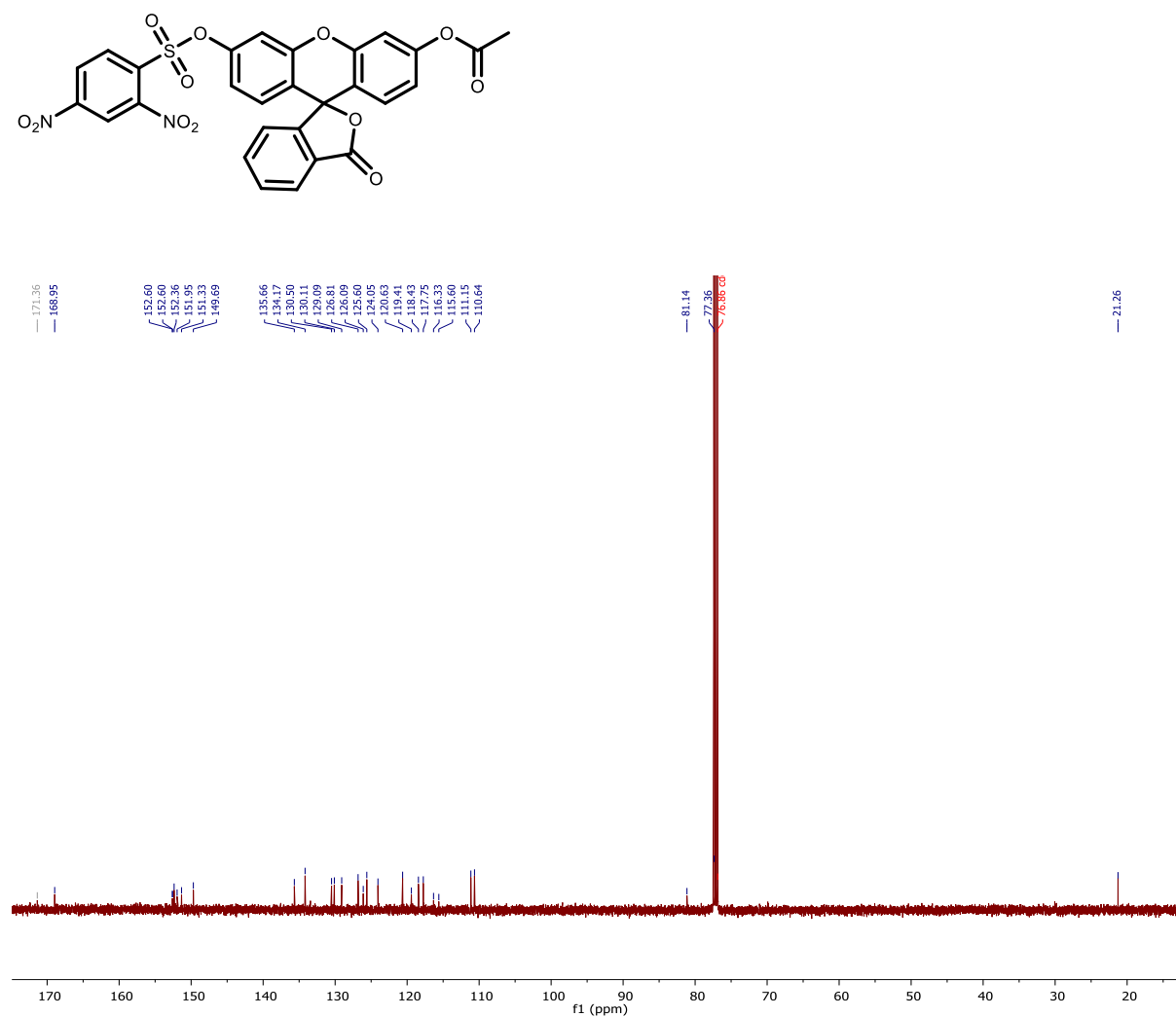
3'-hydroxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl acetate (2.16)- (300 MHz, CDCl₃)



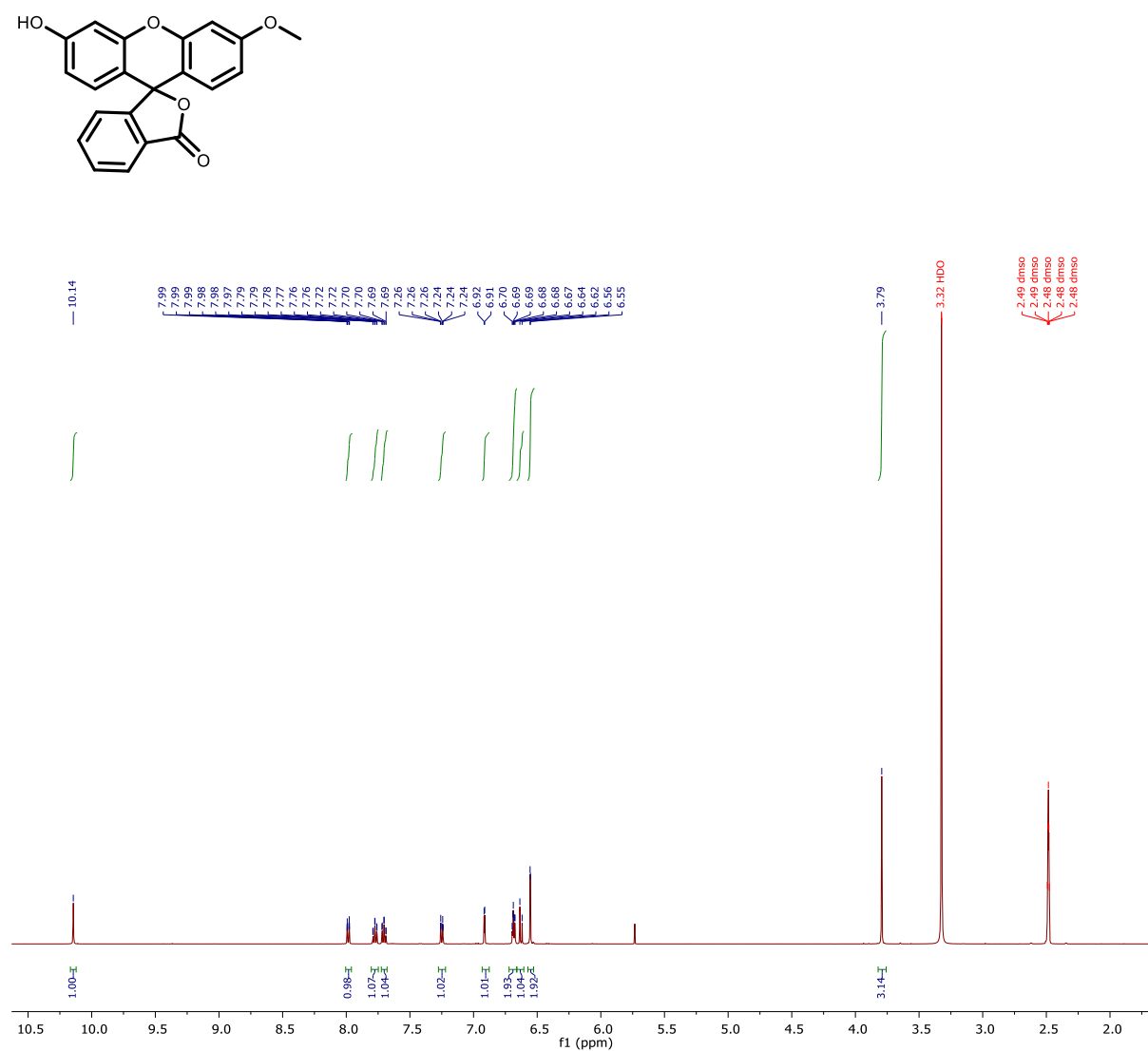
3'-(((2,4-dinitrophenyl)sulfonyl)oxy)-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl acetate (MO.F-3)- (300 MHz, CDCl₃)



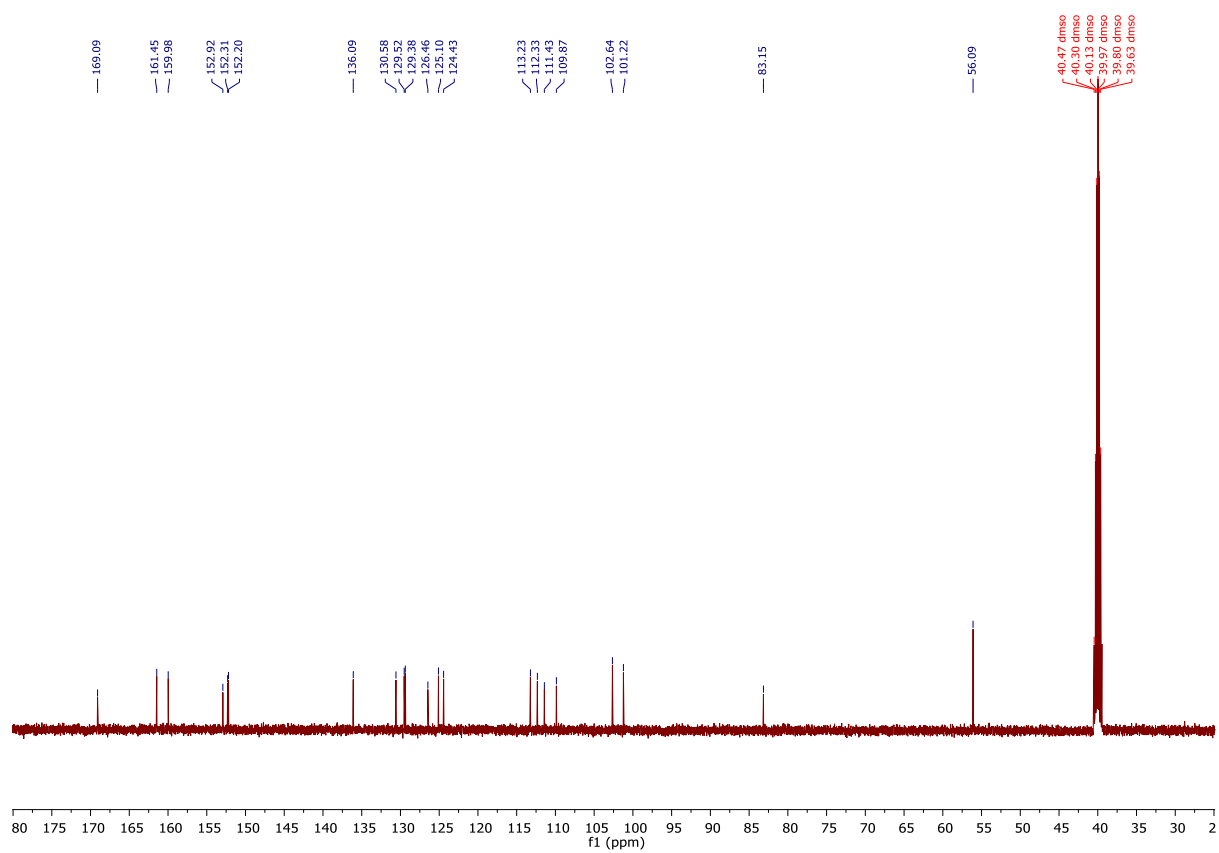
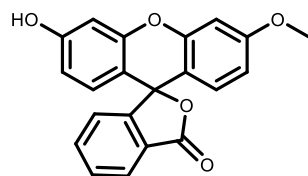
3'-(((2,4-dinitrophenyl)sulfonyl)oxy)-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl acetate (MO.F-3) - (126 MHz, CDCl₃)



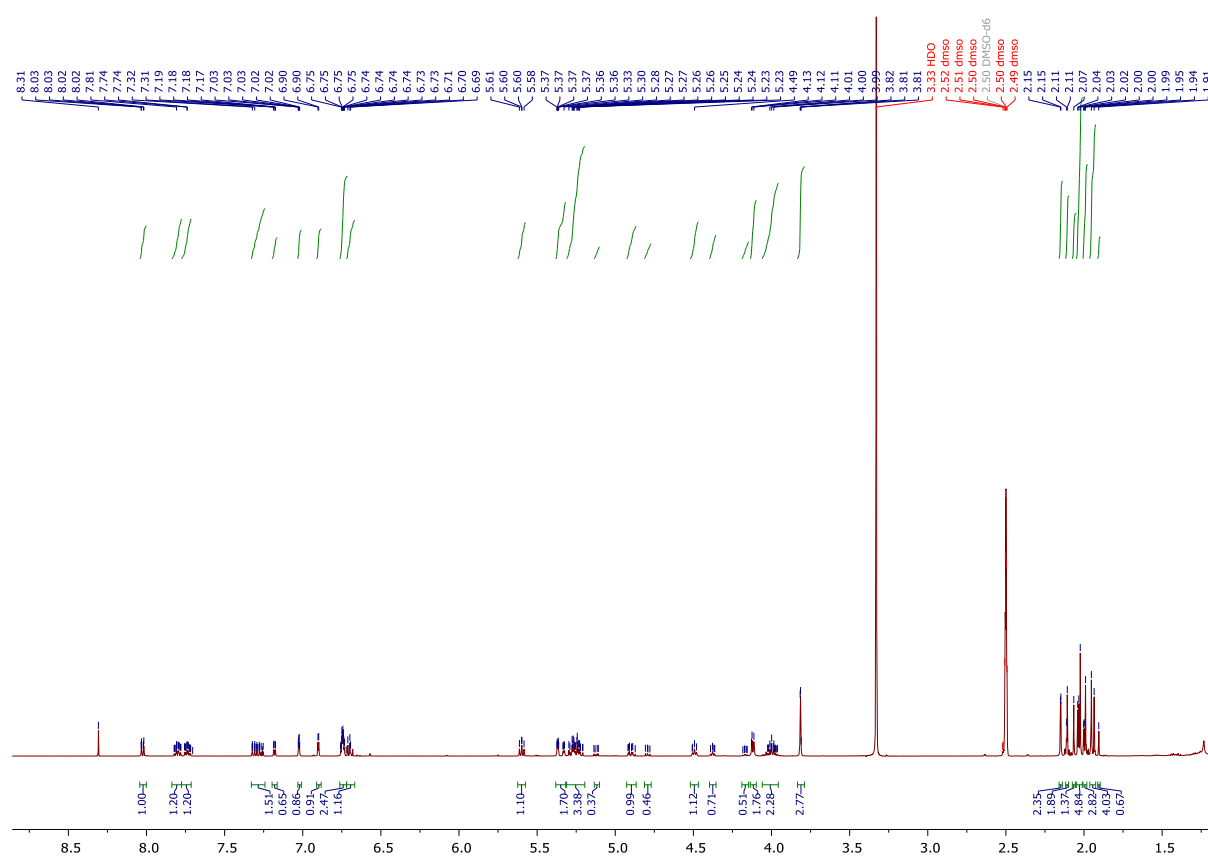
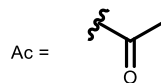
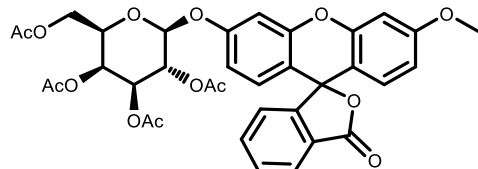
3'-hydroxy-6'-methoxy-3*H*-spiro[isobenzofuran-1,9'-xanthen]-3-one (2.17)- (300 MHz, DMSO-*d*₆)



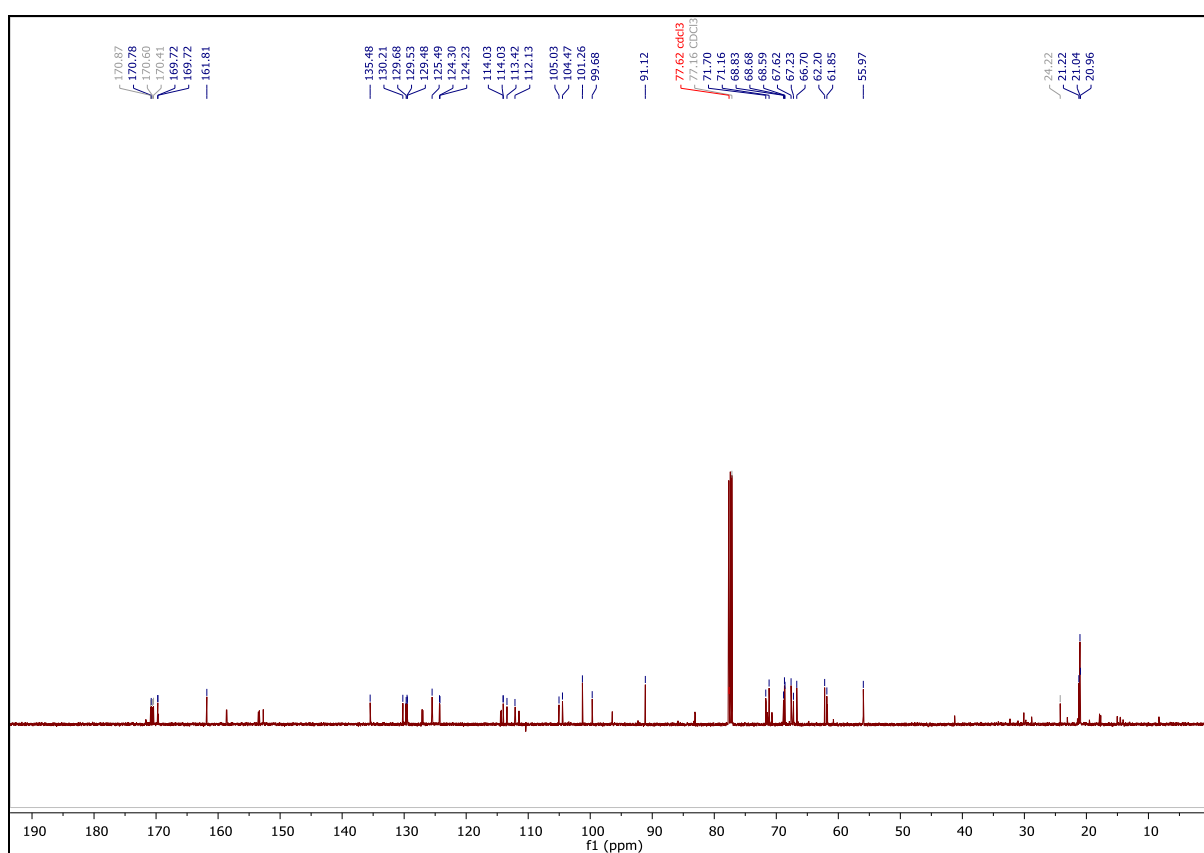
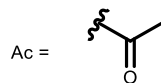
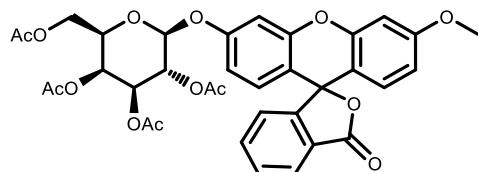
3'-hydroxy-6'-methoxy-3*H*-spiro[isobenzofuran-1,9'-xanthen]-3-one (2.17)- (126 MHz, DMSO-*d*₆)



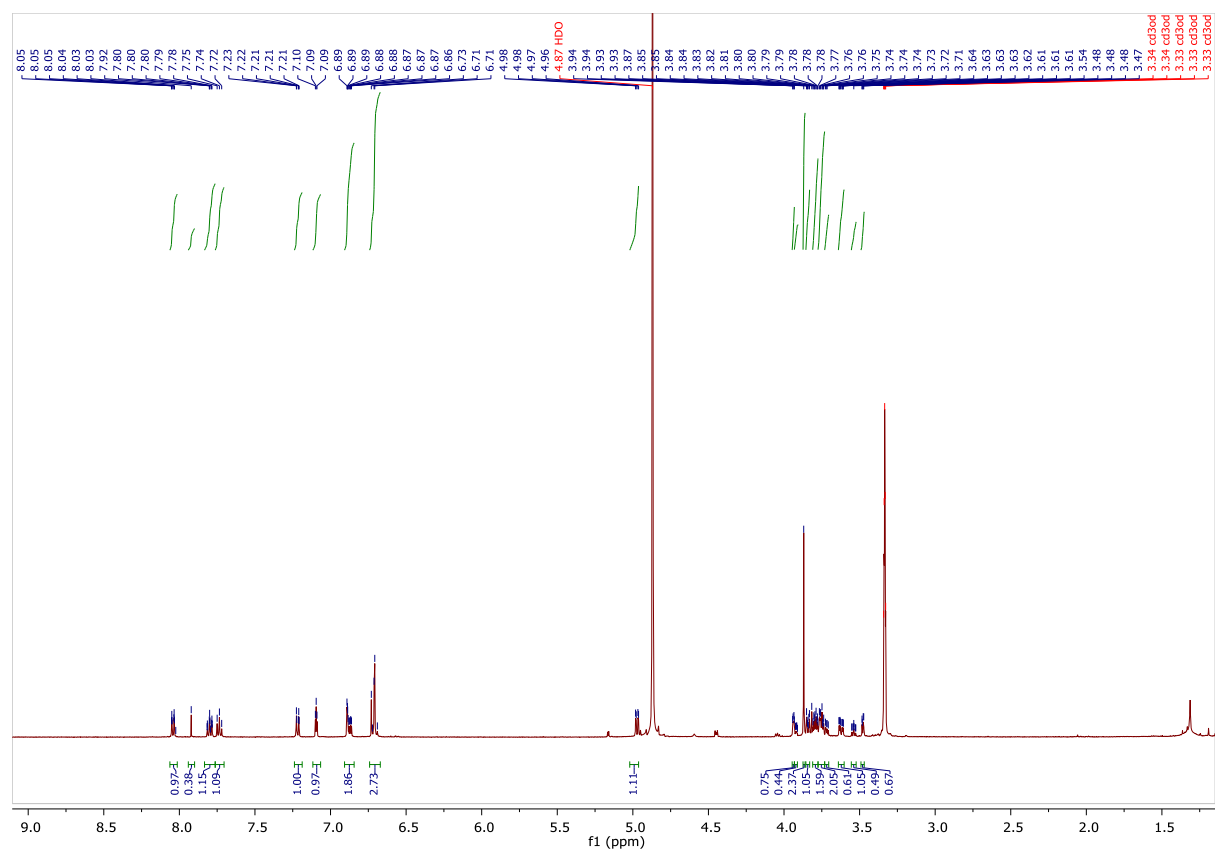
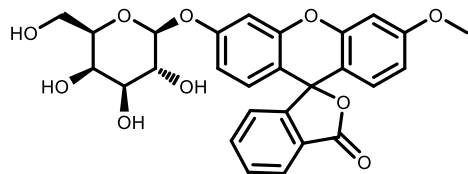
(2R,3S,4S,5R)-2-(acetoxymethyl)-6-((3'-methoxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (2.18)- (300 MHz, DMSO-*d*₆)



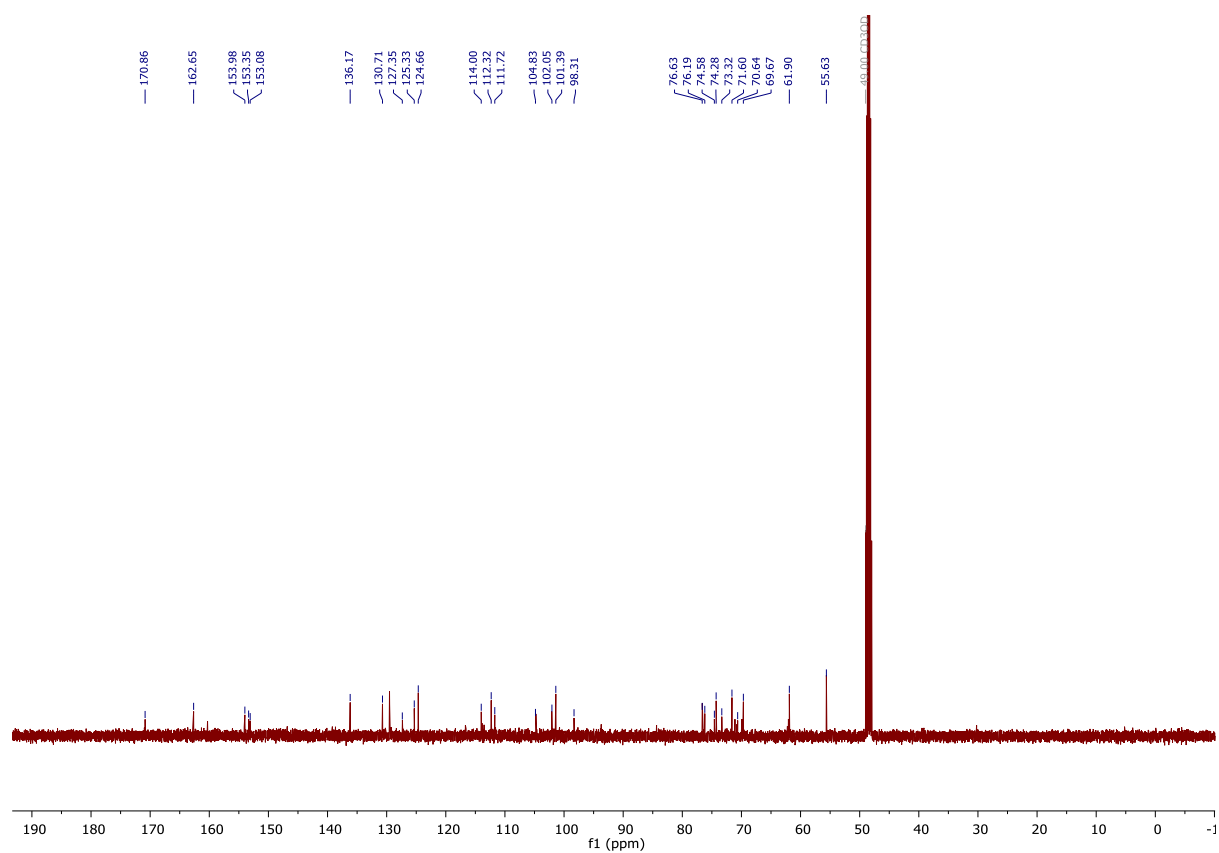
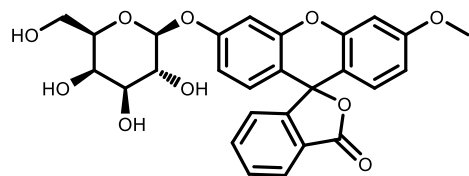
(2R,3S,4S,5R)-2-(acetoxymethyl)-6-((3'-methoxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl)oxy)tetrahydro-2*H*-pyran-3,4,5-triyl triacetate (2.18)- (126 MHz, CDCl₃)



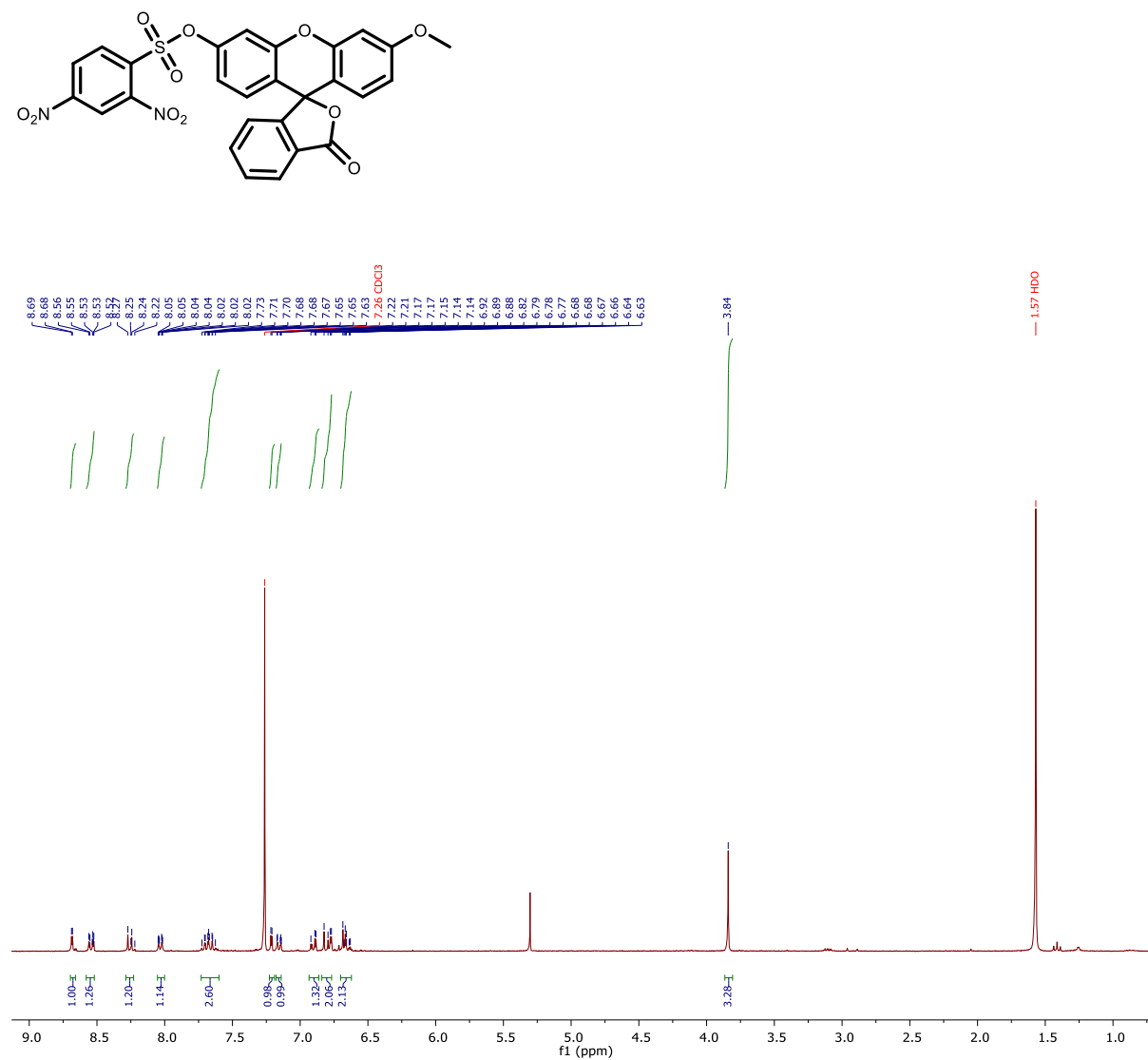
3'-methoxy-6'-(((3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one (PF2-Gal) -(300 MHz – MeOD₄)



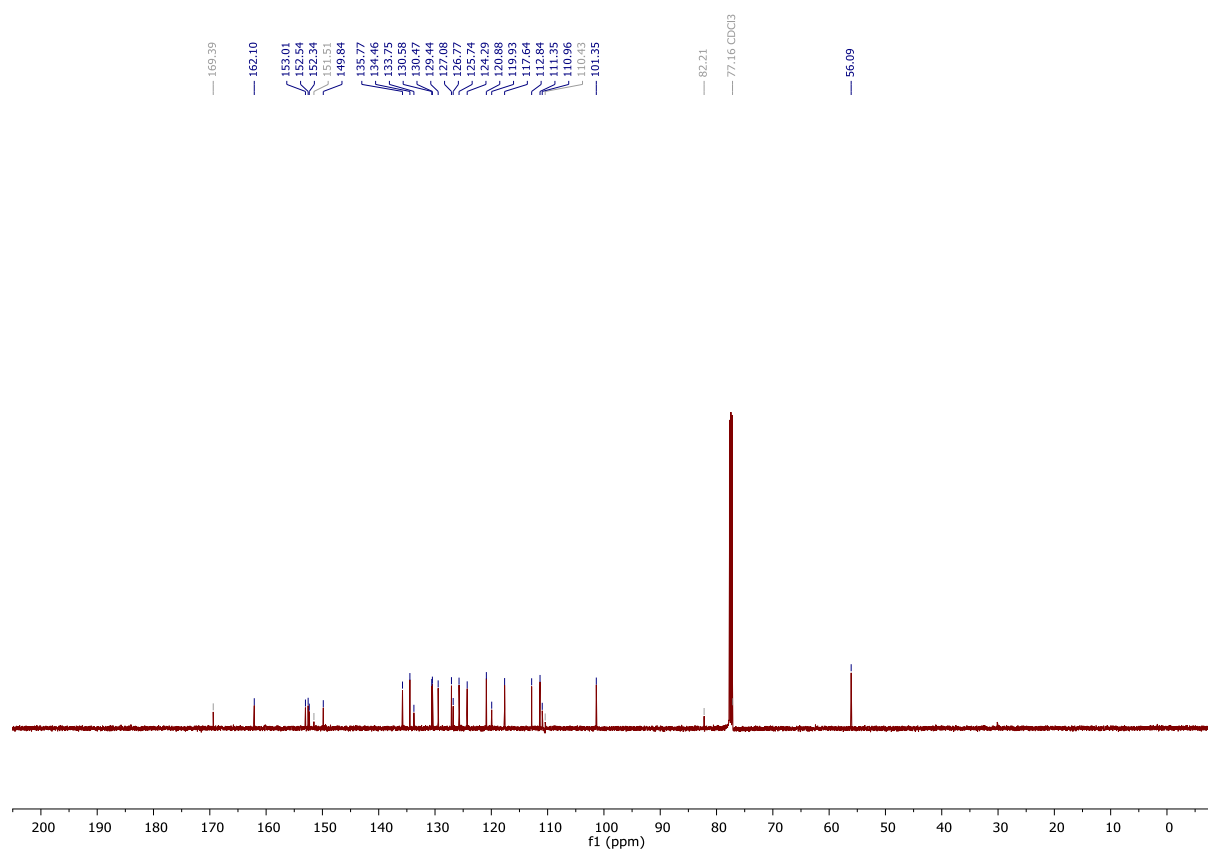
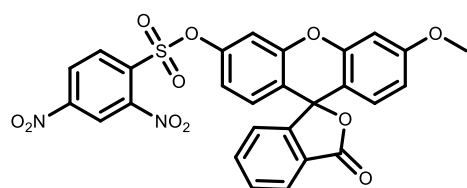
3'-methoxy-6'-(((3R,4S,5R,6R)-3,4,5-trihydroxy-6-(hydroxymethyl)tetrahydro-2H-pyran-2-yl)oxy)-3H-spiro[isobenzofuran-1,9'-xanthen]-3-one (PF2-Gal)- (126 MHz - MeOD₄)



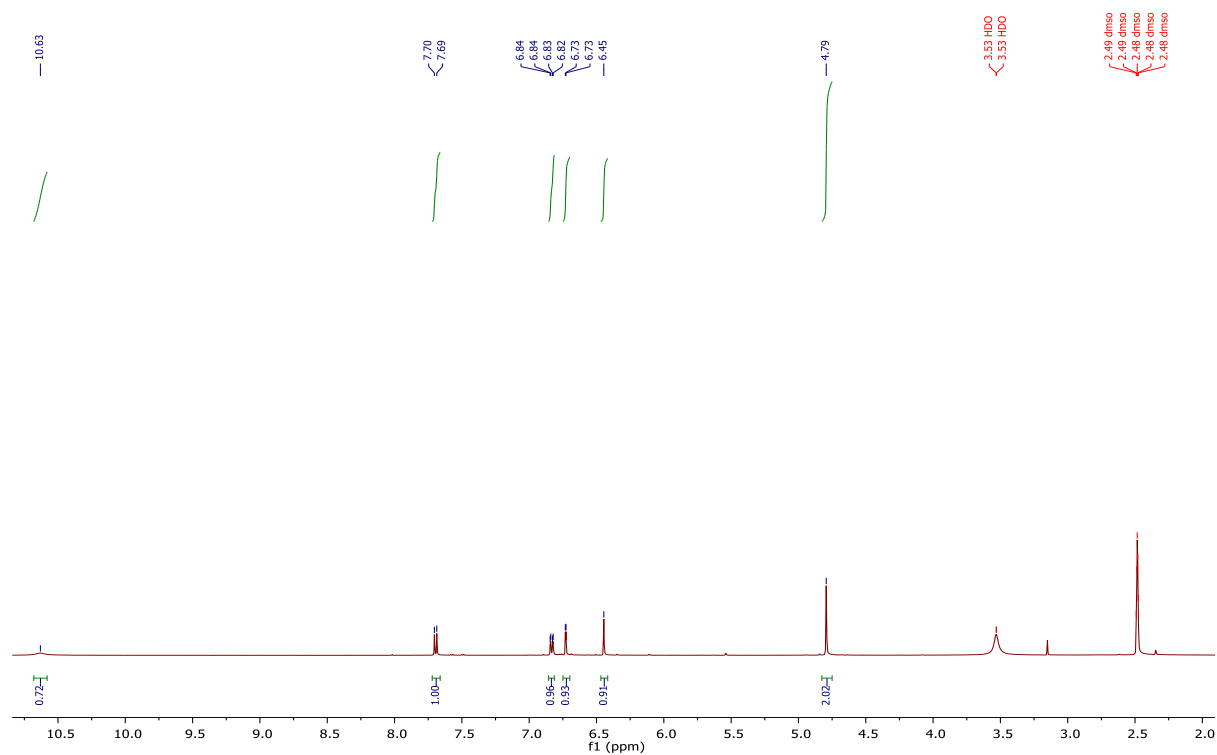
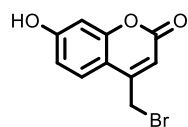
3'-methoxy-3-oxo-3*H*-spiro[isobenzofuran-1,9'-xanthen]-6'-yl 2,4-dinitrobenzenesulfonate (PF2-GSH)- (300 MHz – CDCl₃)



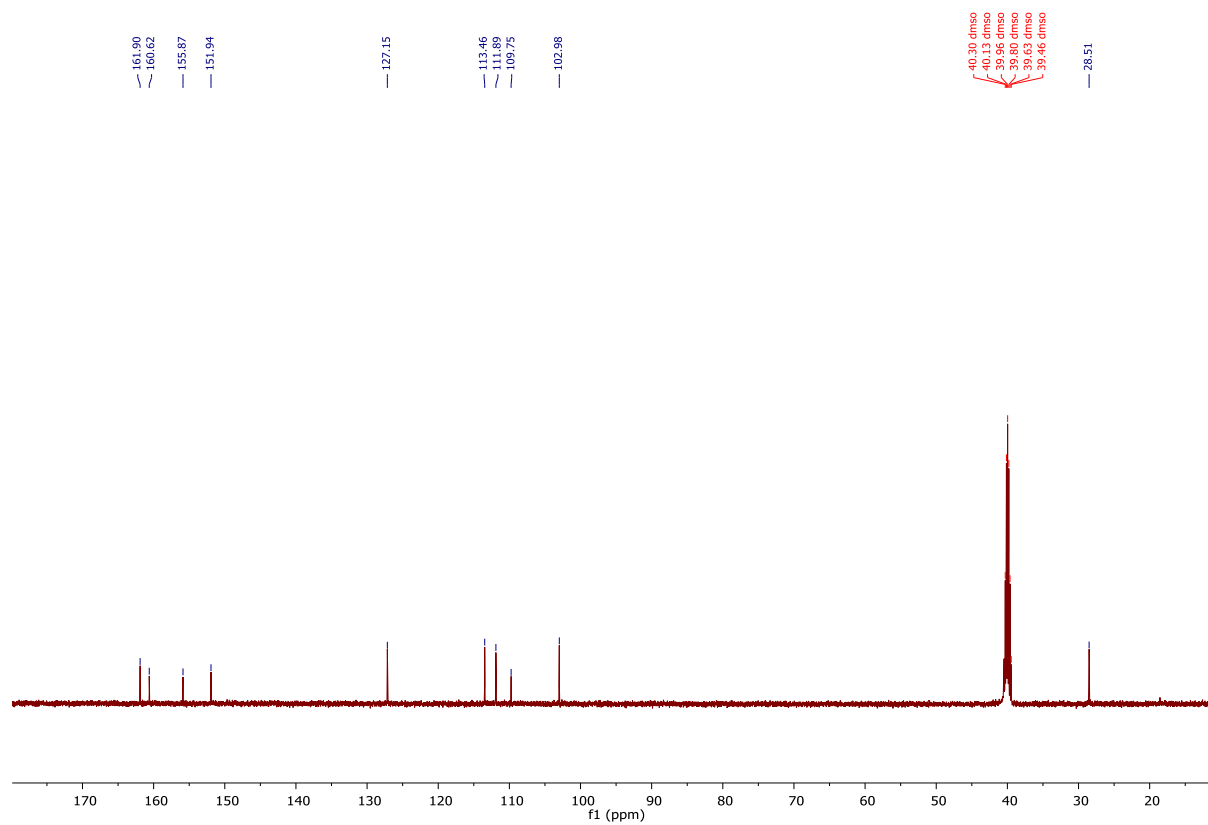
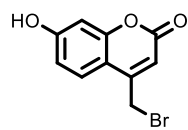
3'-methoxy-3-oxo-3H-spiro[isobenzofuran-1,9'-xanthen]-6'-yl 2,4-dinitrobenzenesulfonate (PF2-GSH)- (126 MHz – CDCl₃)



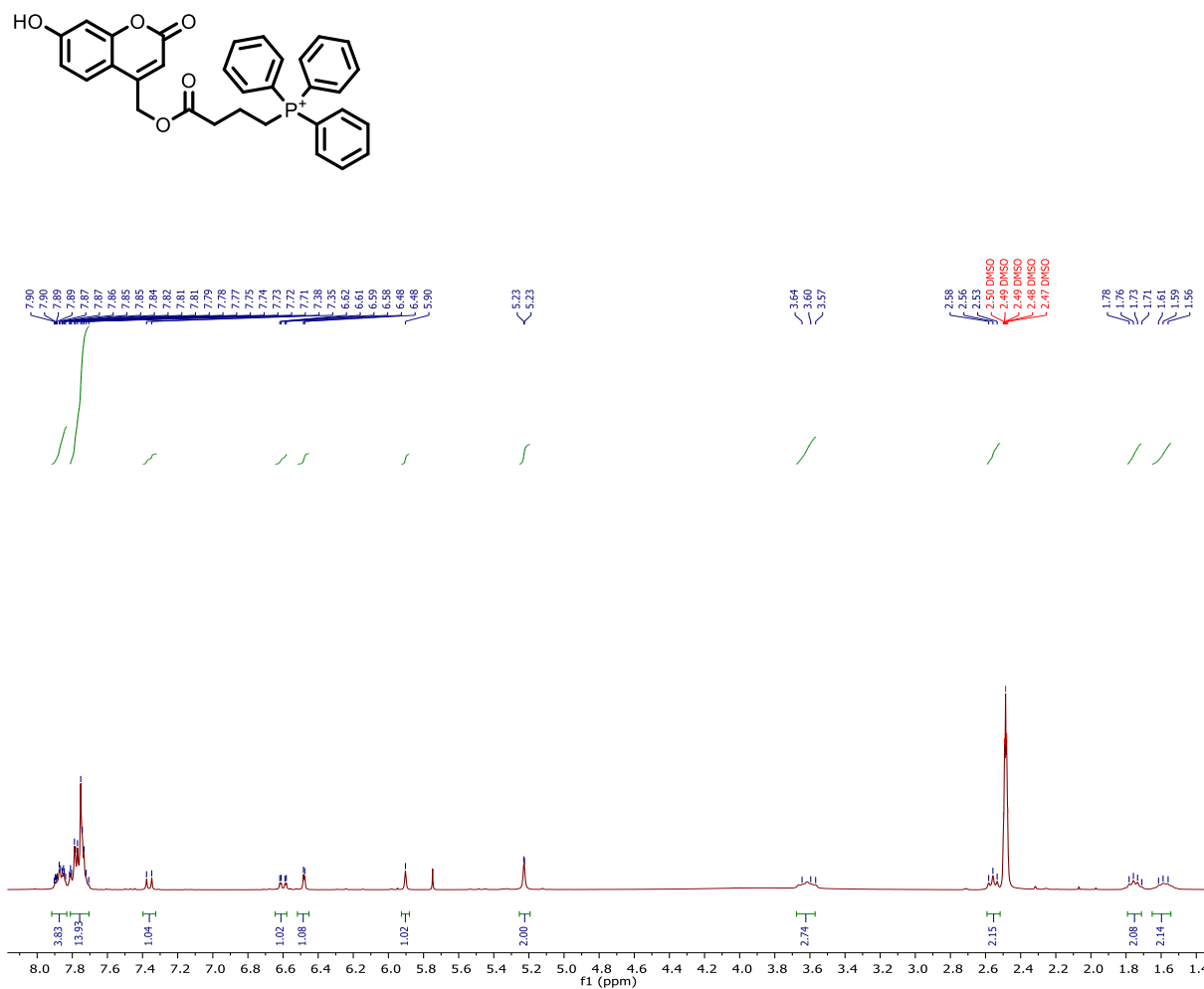
4-(bromomethyl)-7-hydroxy-2H-chromen-2-one (3.2)- (500 MHz, DMSO-*d*₆)



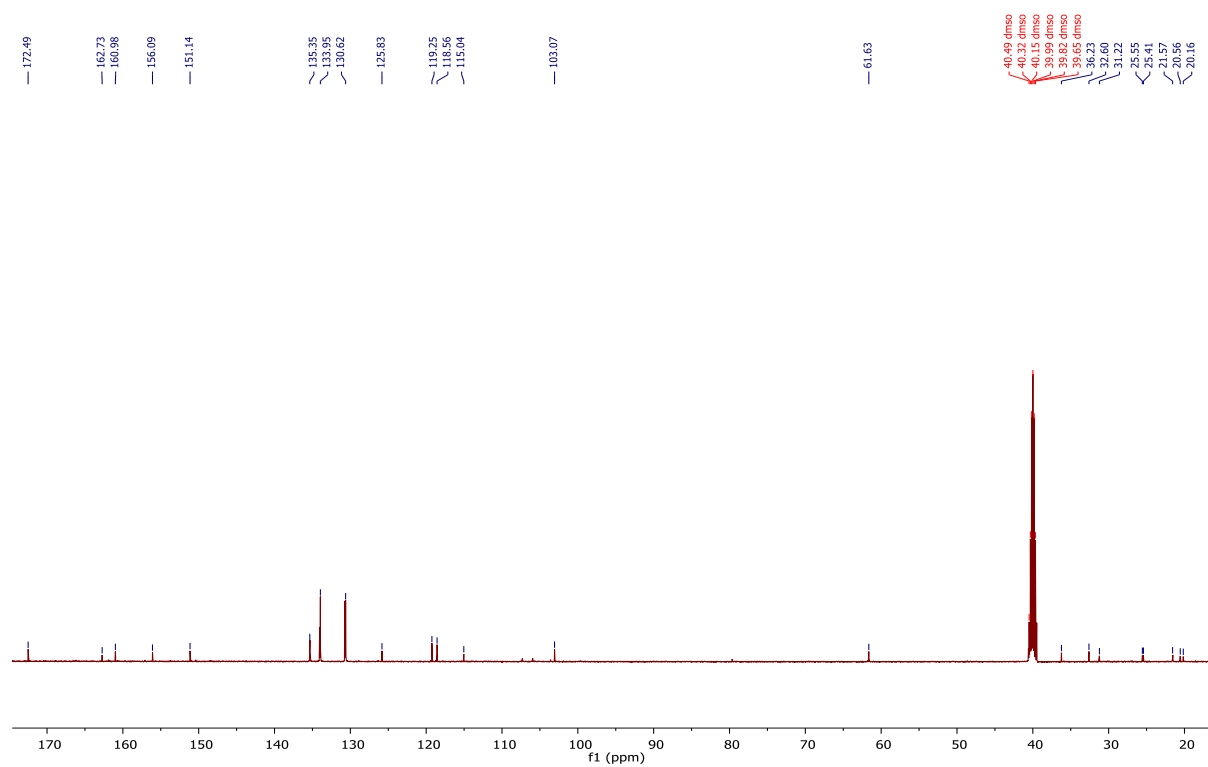
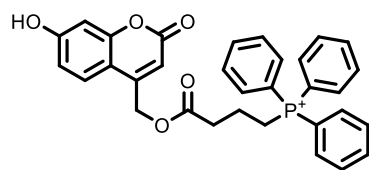
4-(bromomethyl)-7-hydroxy-2H-chromen-2-one (3.2)- (126 MHz, DMSO-*d*₆)



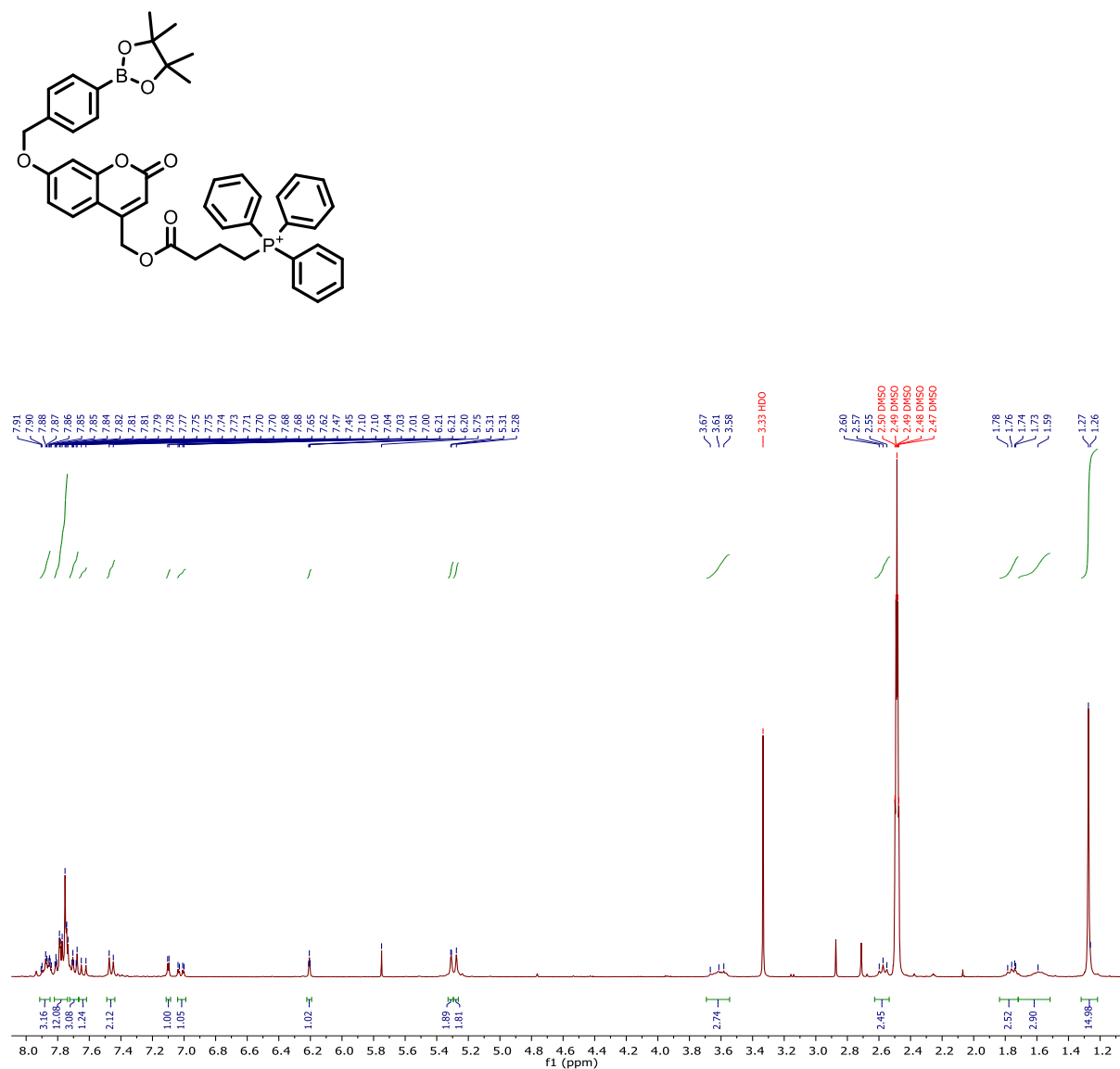
(4-((7-hydroxy-2-oxo-2*H*-chromen-4-yl)methoxy)-4-oxobutyl)triphenylphosphonium (3.3)- (300 MHz, DMSO-*d*₆)



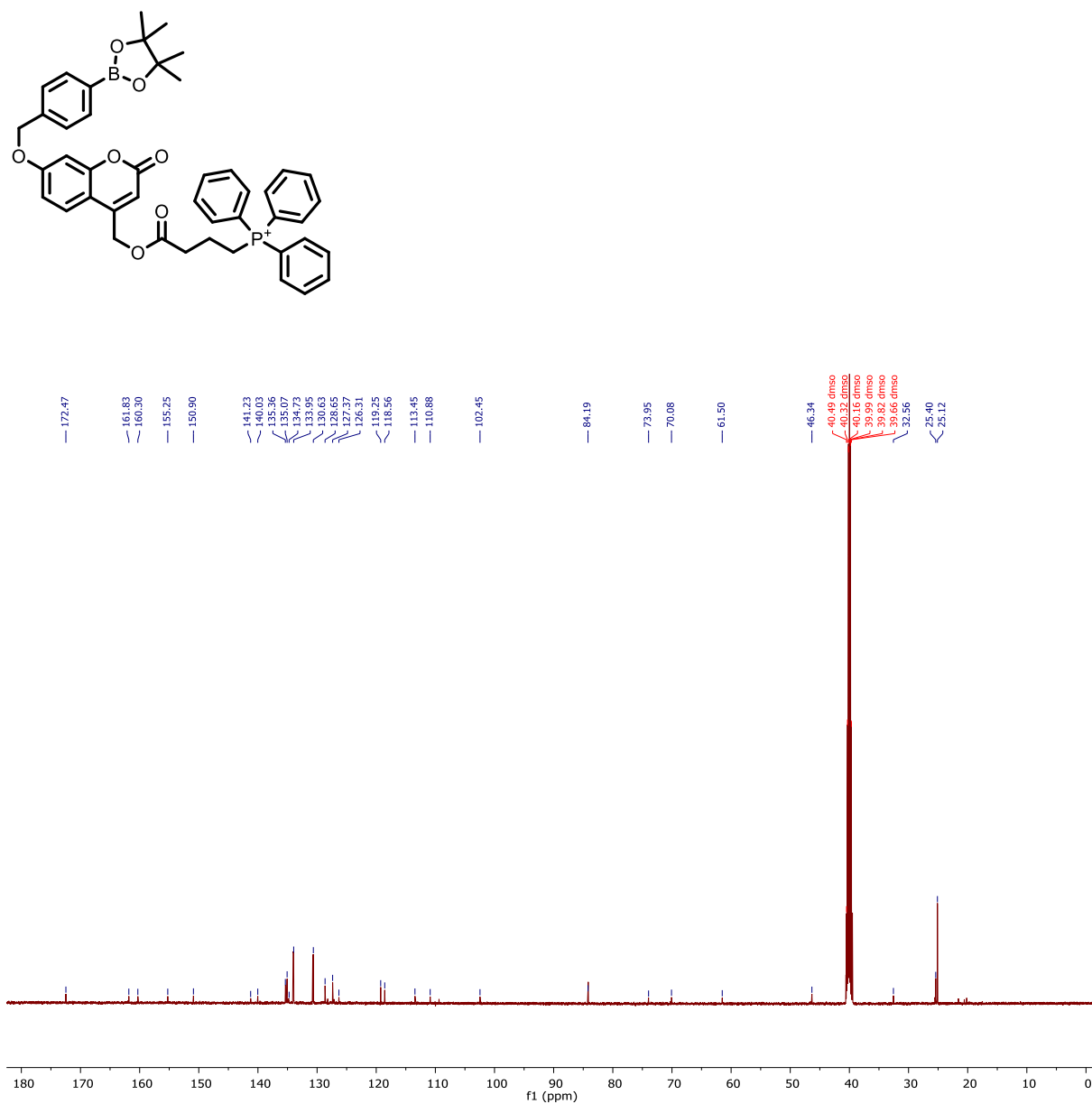
(4-((7-hydroxy-2-oxo-2*H*-chromen-4-yl)methoxy)-4-oxobutyl)triphenylphosphonium (3.3)- (126 MHz, DMSO-*d*₆)



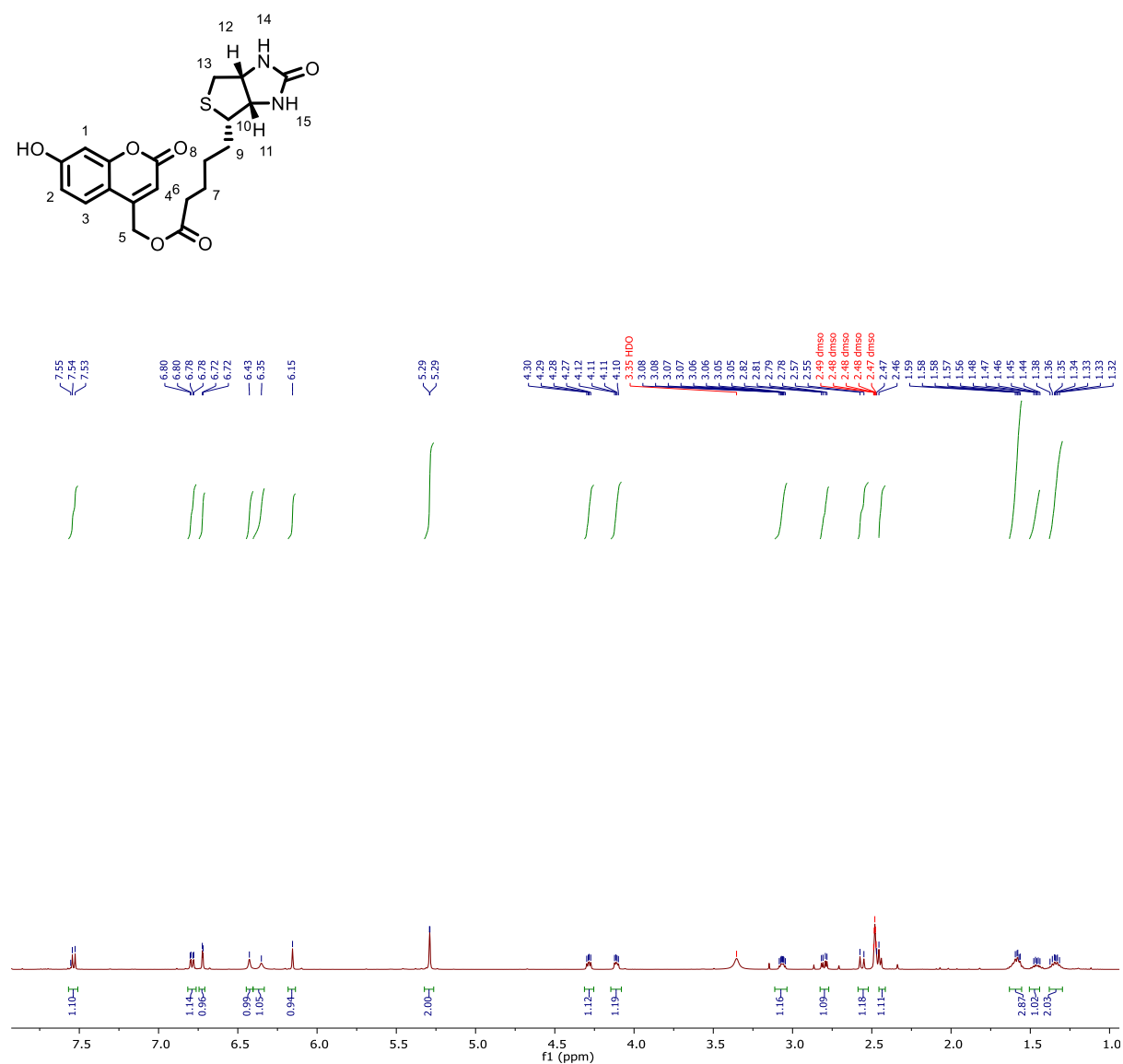
(4-oxo-4-((2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-4-yl)methoxy)butyl)triphenylphosphonium (Cou-TPP)- (300 MHz, DMSO-*d*₆)



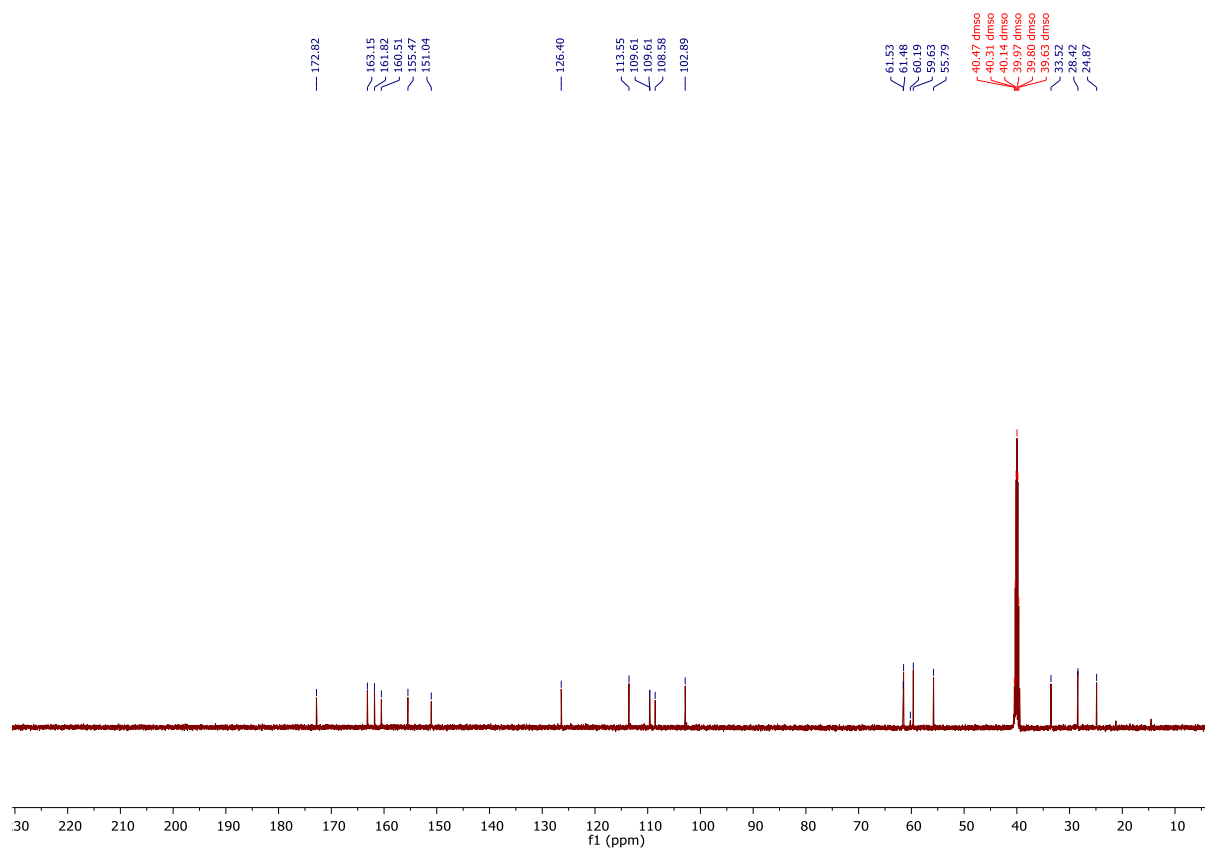
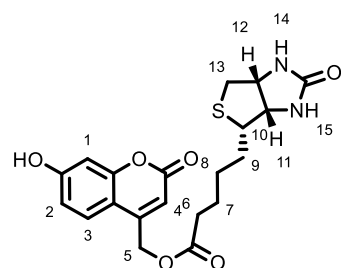
(4-oxo-4-((2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-4-yl)methoxy)butyl)triphenylphosphonium (Cou-TPP) -(300 MHz, DMSO-*d*₆)



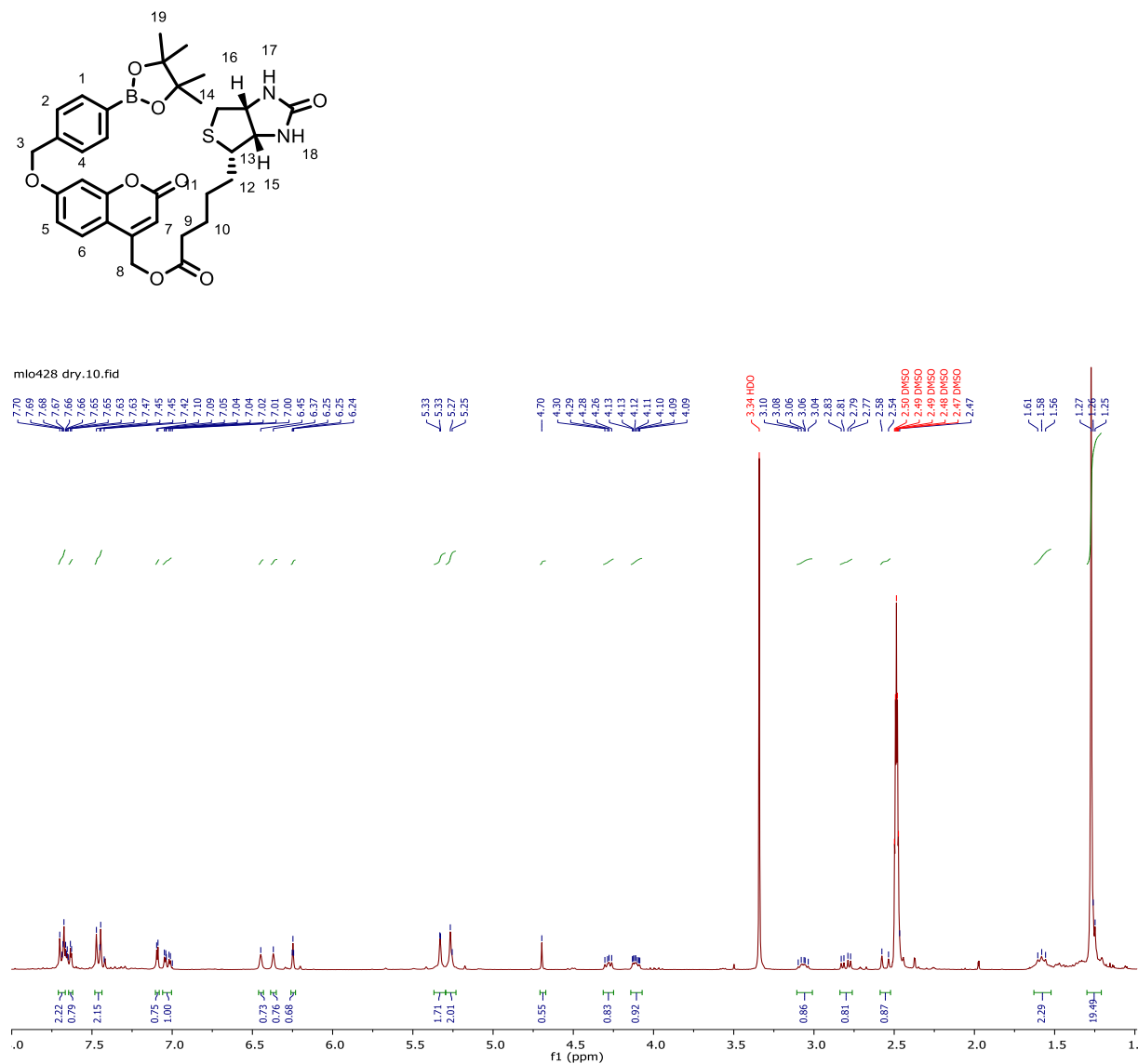
(7-hydroxy-2-oxo-2*H*-chromen-4-yl)methyl 5-((3*aS*,4*S*,6*aR*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate (3.4)- (500 MHz, DMSO-*d*₆)



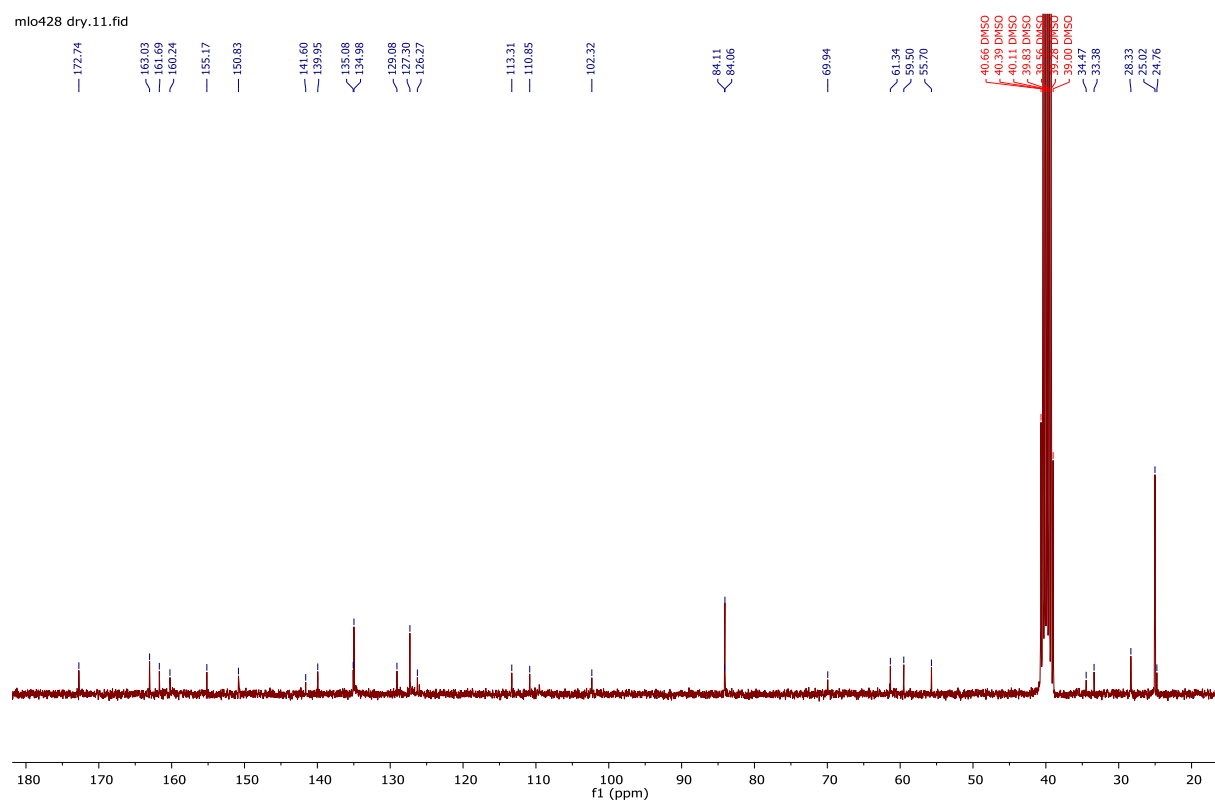
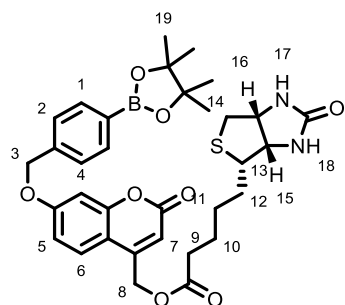
(7-hydroxy-2-oxo-2*H*-chromen-4-yl)methyl 5-((3*aS*,4*S*,6*aR*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate (3.4)- (126 MHz, DMSO-*d*₆)



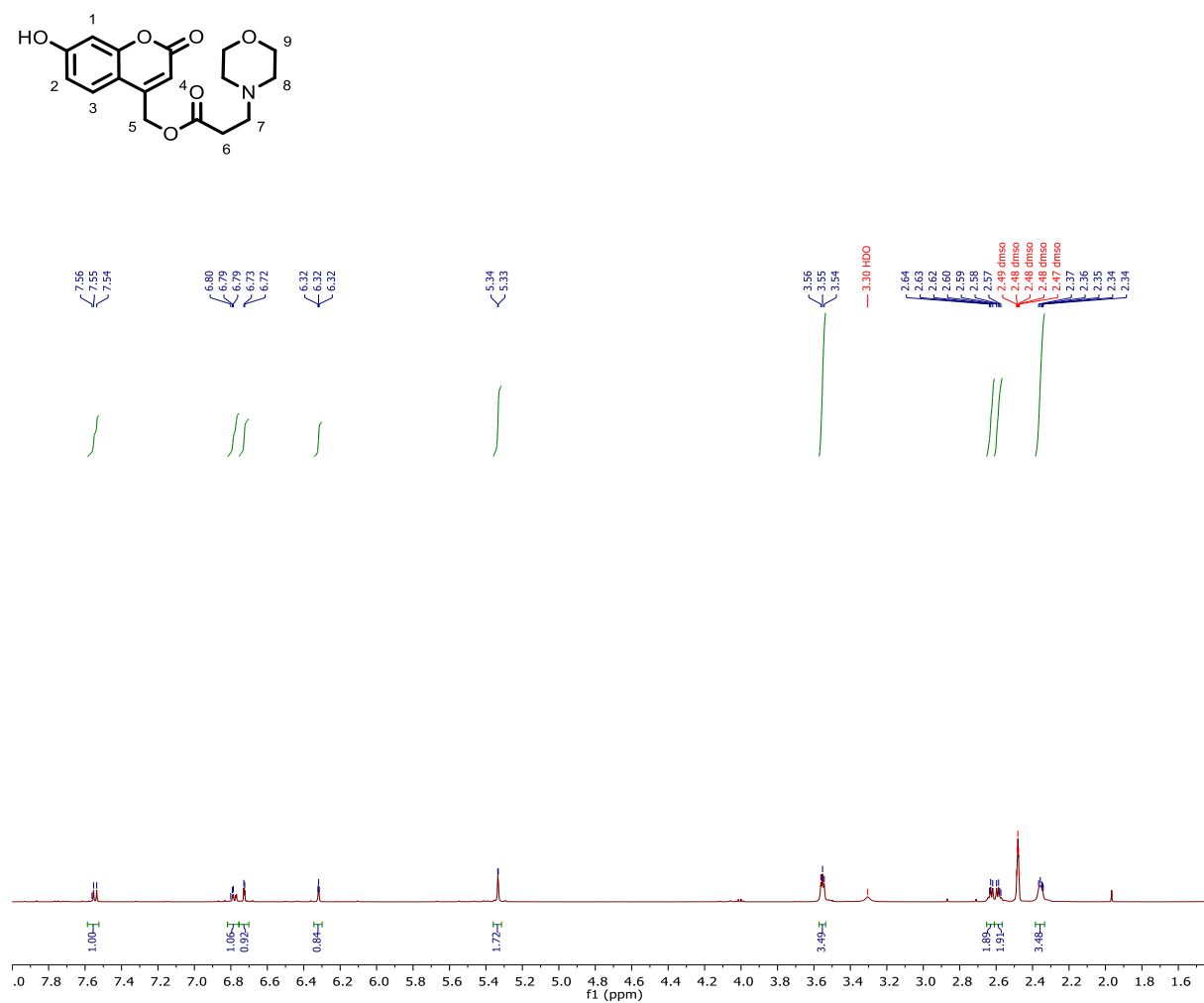
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-4-yl)methyl 5-((3aS,4S,6aR)-2-oxohexahydro-1H-thieno[3,4-d]imidazol-4-yl)pentanoate (Cou-Biotin)- (300 MHz, DMSO-*d*₆)



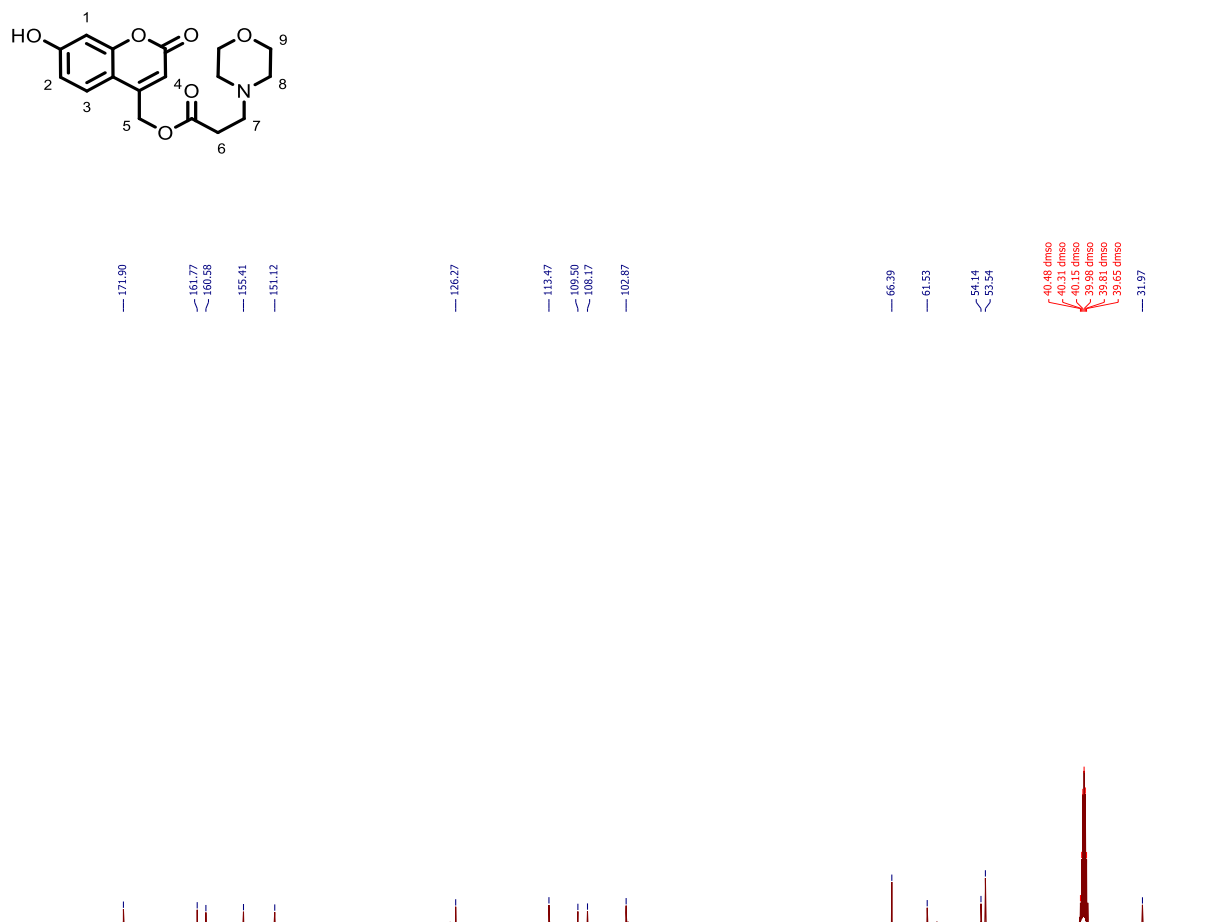
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2*H*-chromen-4-yl)methyl 5-((3*aS*,4*S*,6*aR*)-2-oxohexahydro-1*H*-thieno[3,4-*d*]imidazol-4-yl)pentanoate (Cou-Biotin)- (126 MHz, DMSO-*d*₆)



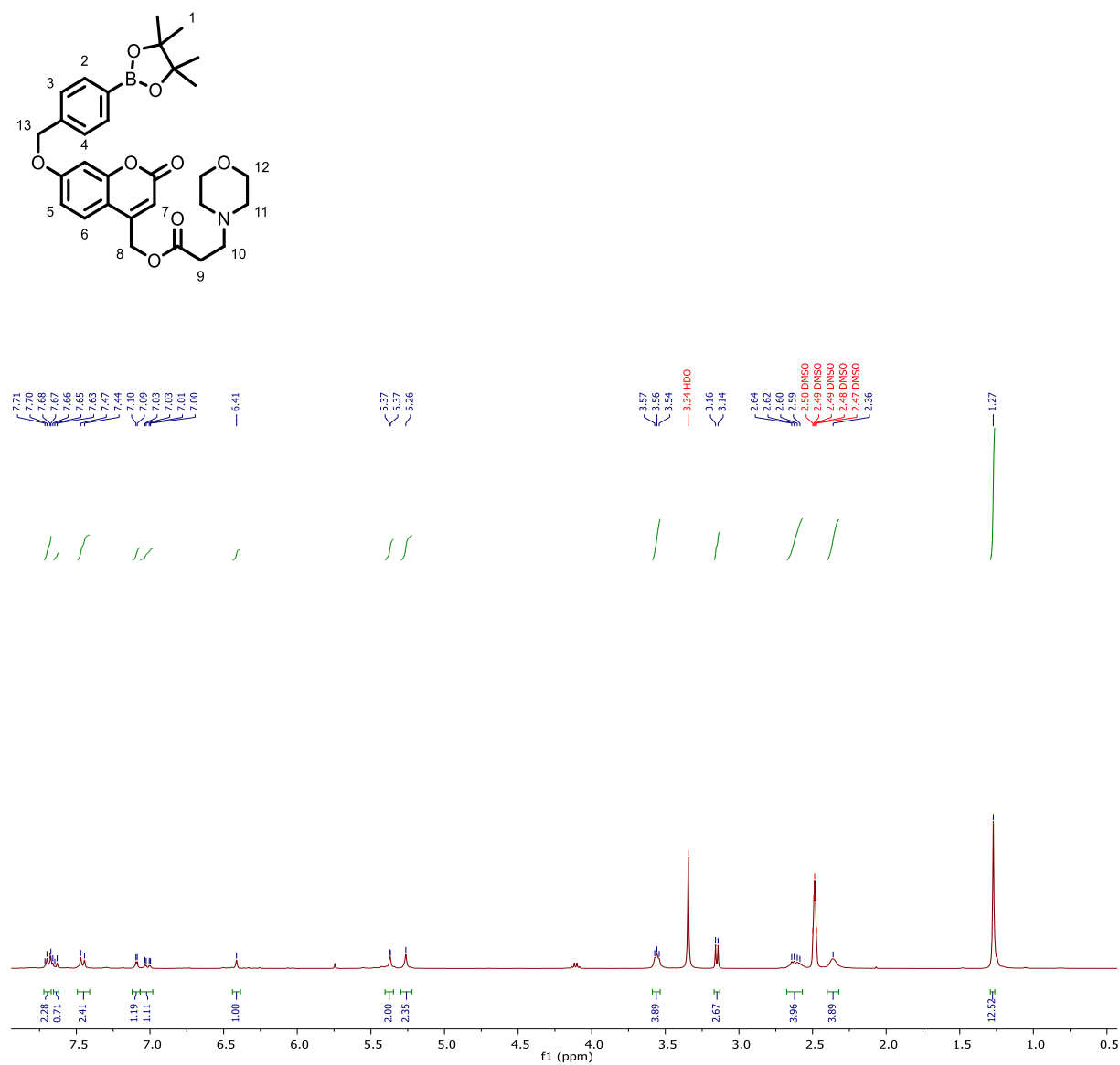
7-hydroxy-4-((2-morpholinoethoxy)methyl)-2H-chromen-2-one (3.5)- (500 MHz, DMSO-*d*₆)



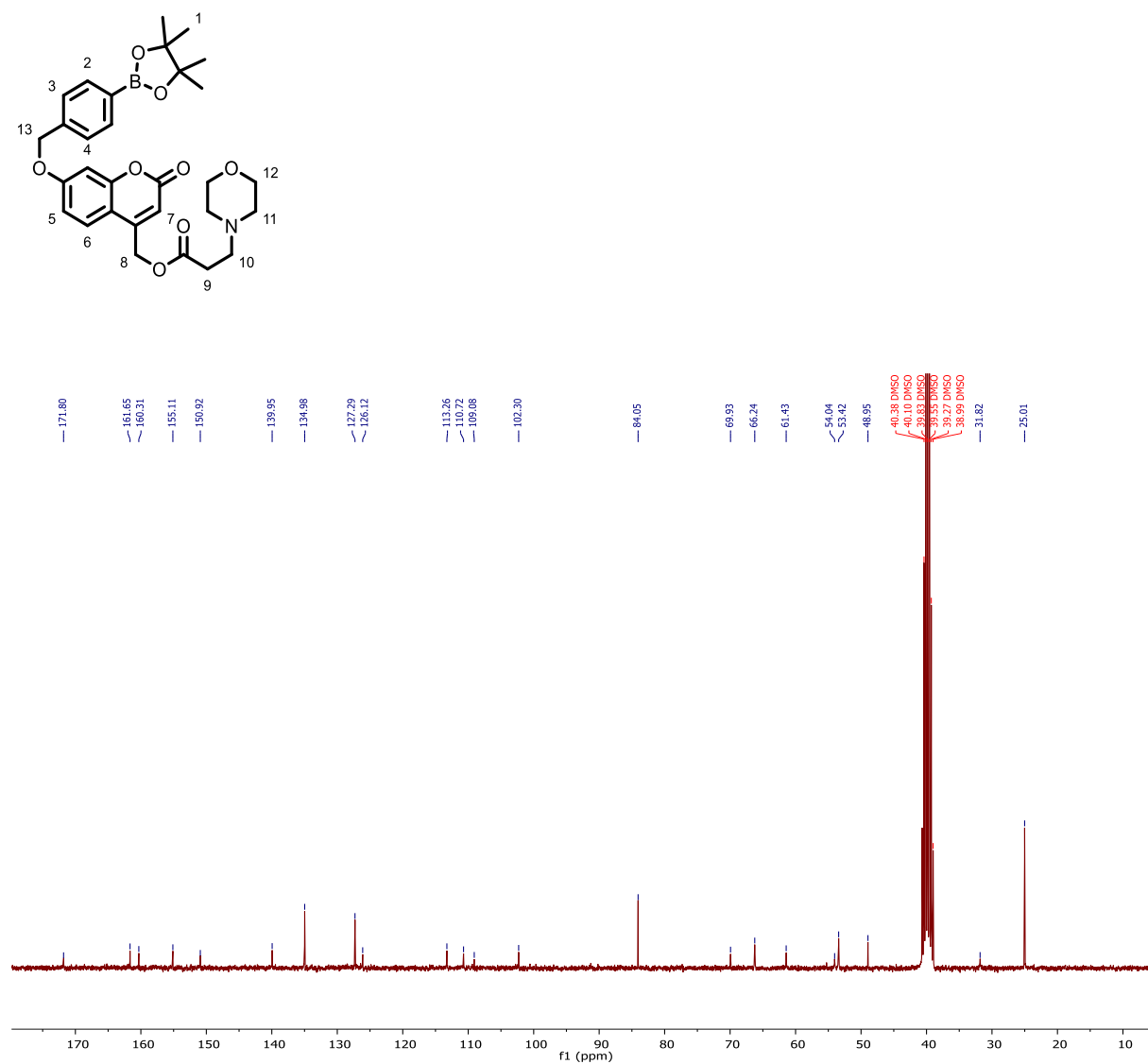
7-hydroxy-4-((2-morpholinoethoxy)methyl)-2H-chromen-2-one (3.5)- (126 MHz, DMSO-*d*₆)



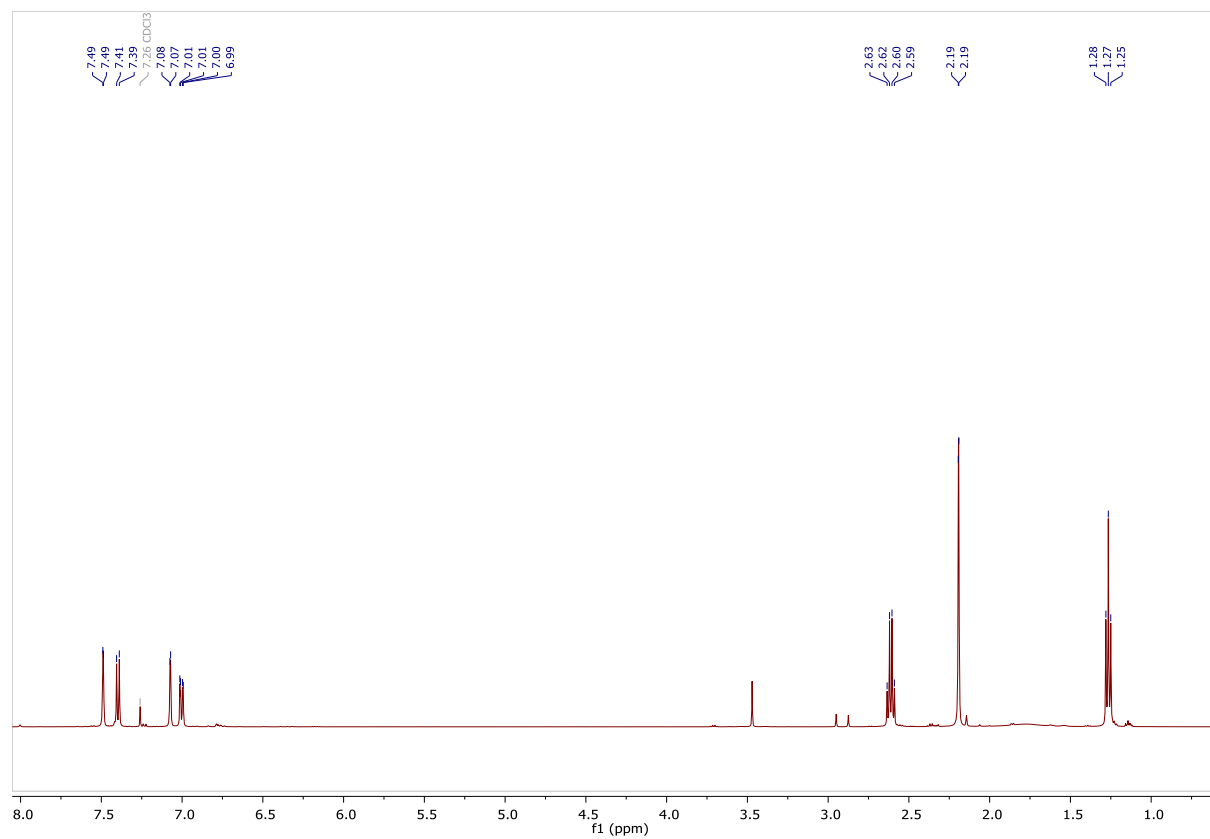
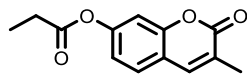
4-((2-morpholinoethoxy)methyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-2-one (Cou-Lyso)- (300 MHz, DMSO-*d*₆)



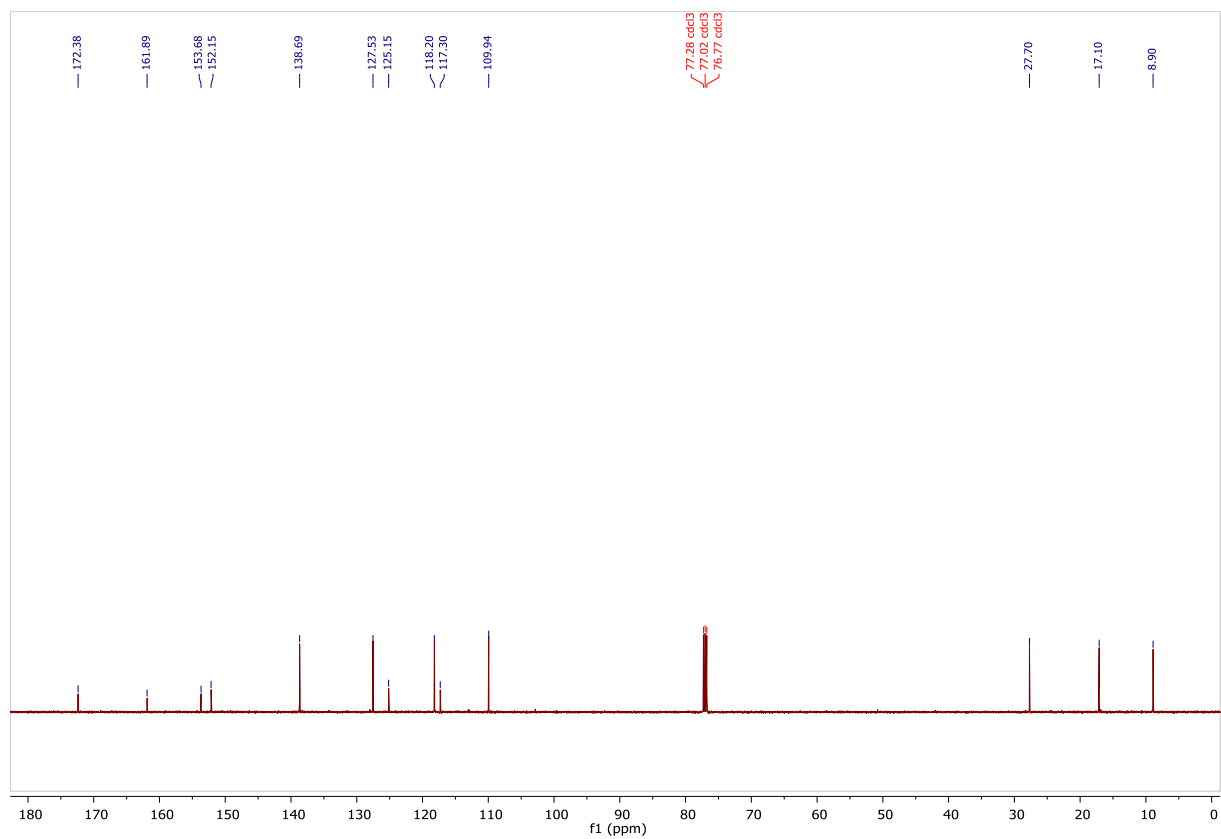
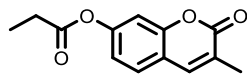
4-((2-morpholinoethoxy)methyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-2-one (Cou-Lyso)- (300 MHz, DMSO-*d*₆)



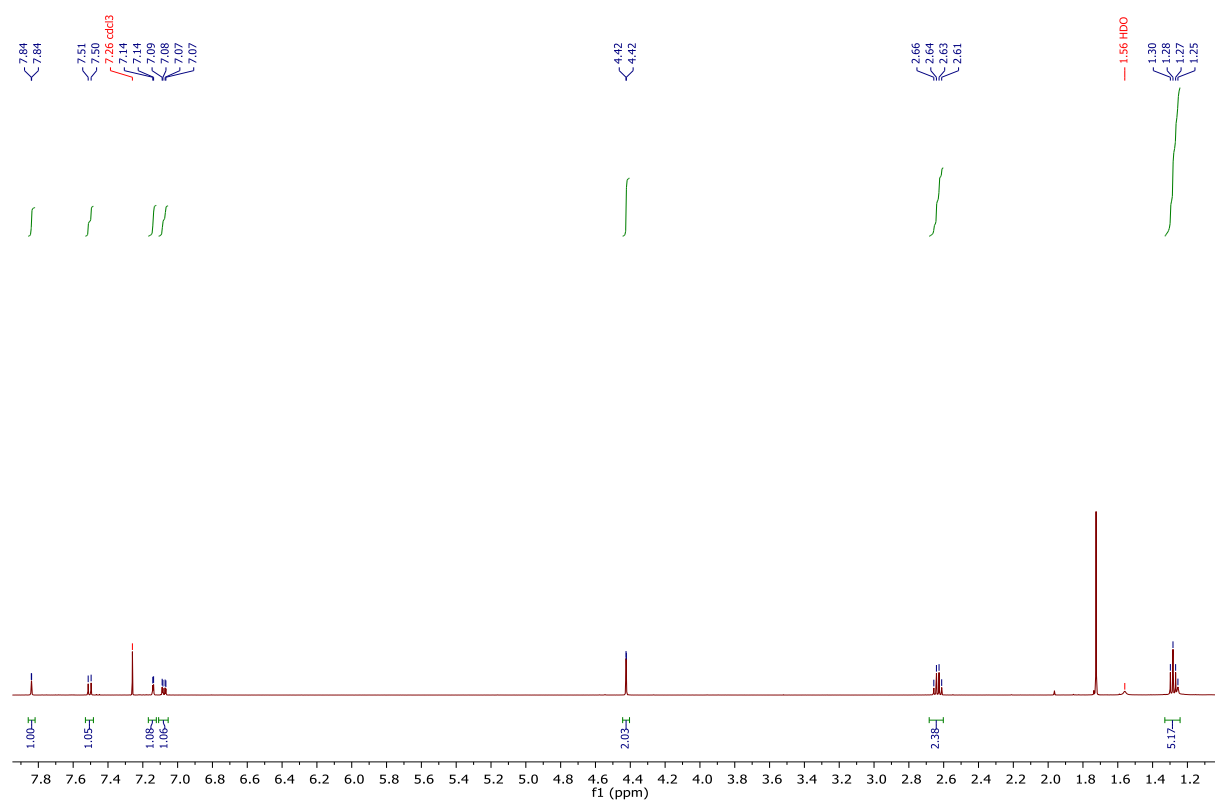
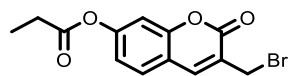
3-methyl-7-propionyl-2H-chromen-2-one (3.6) –(500 MHz, CDCl₃)



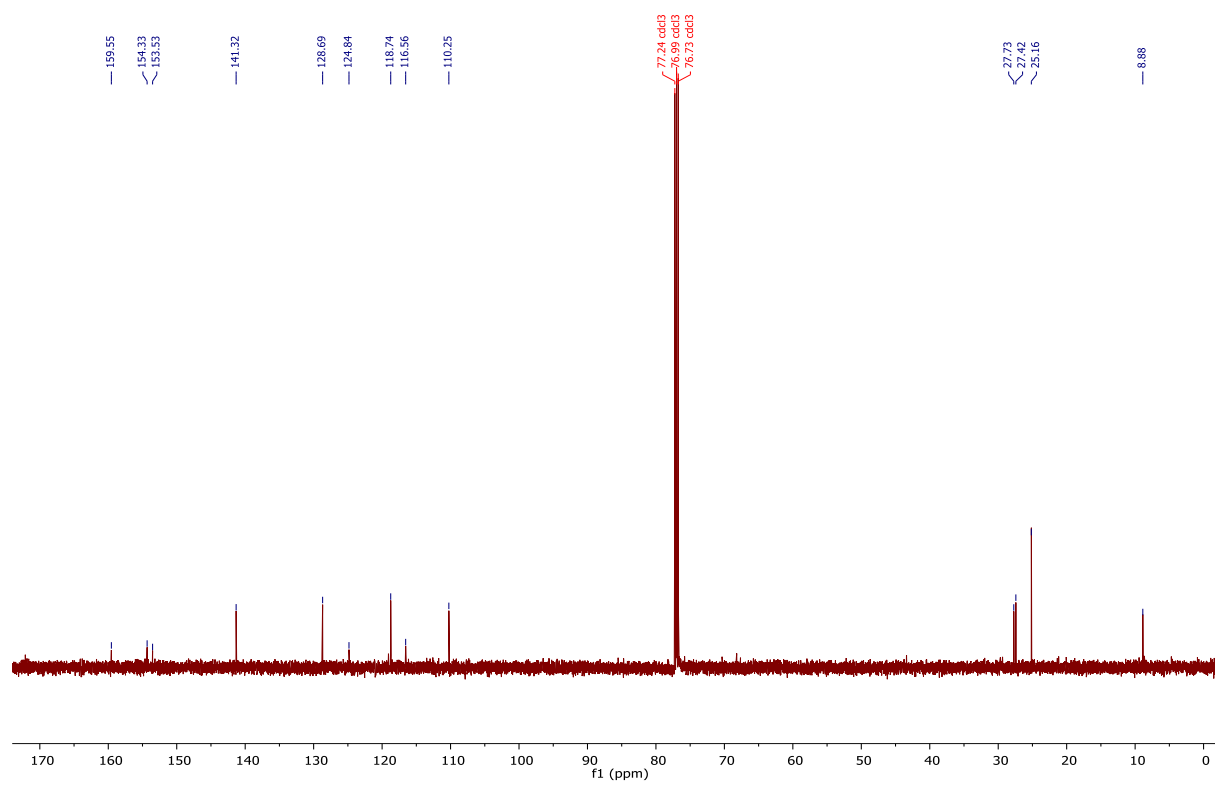
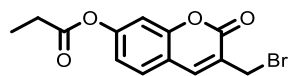
3-methyl-7-propionyl-2H-chromen-2-one (3.6) –(126 MHz, CDCl₃)



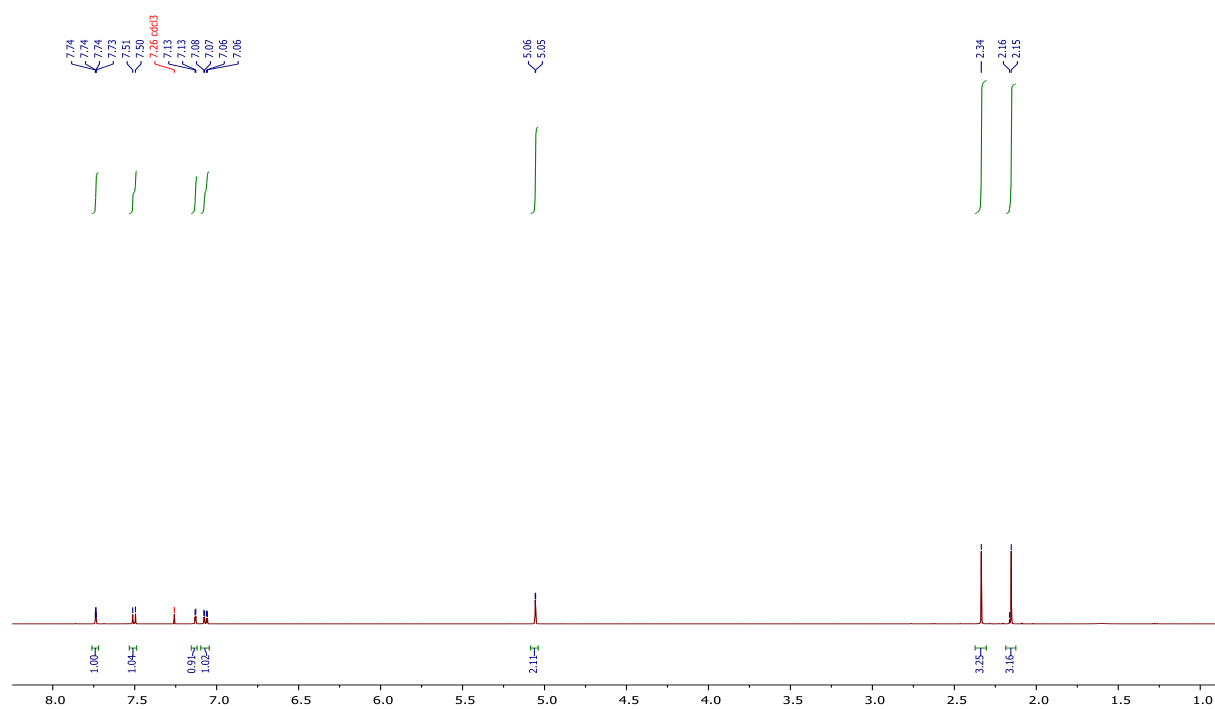
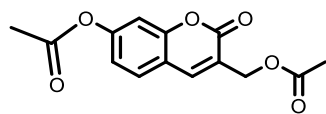
3-(bromomethyl)-7-propionyl-2H-chromen-2-one (3.7)- (500 MHz, CDCl₃)



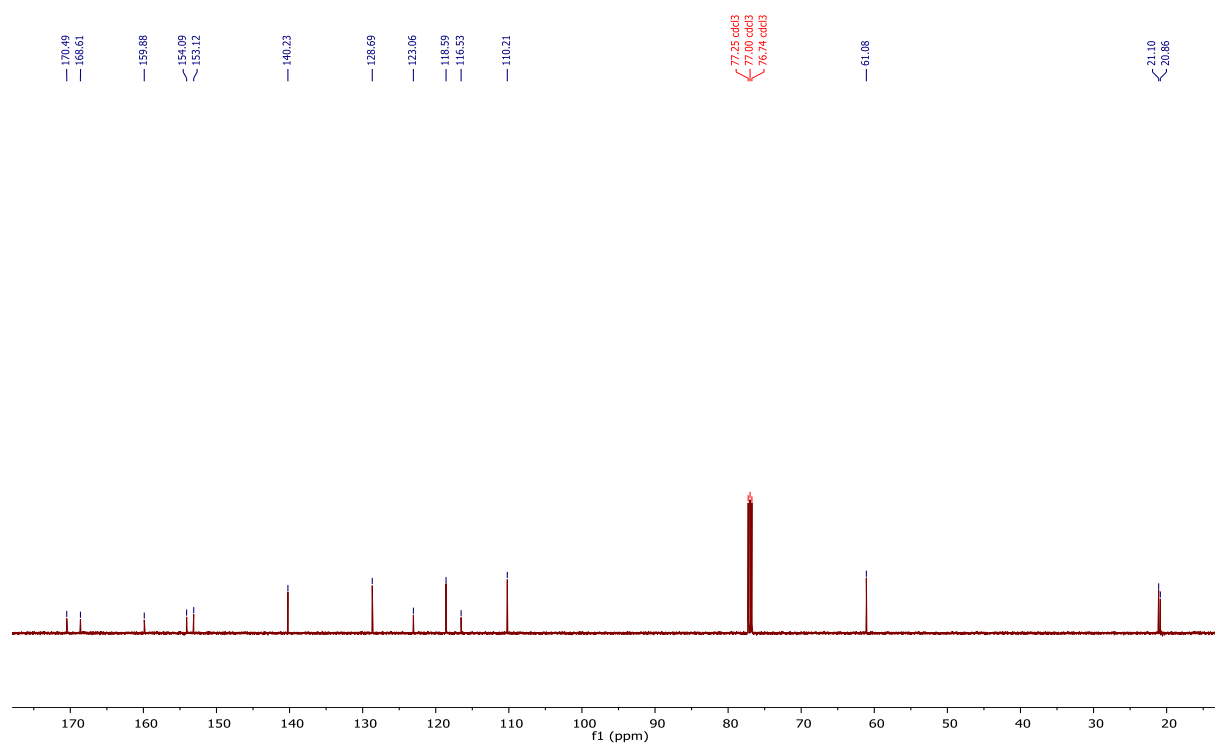
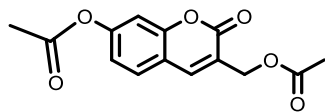
3-(bromomethyl)-7-propionyl-2H-chromen-2-one (3.7) - (126 MHz, CDCl₃)



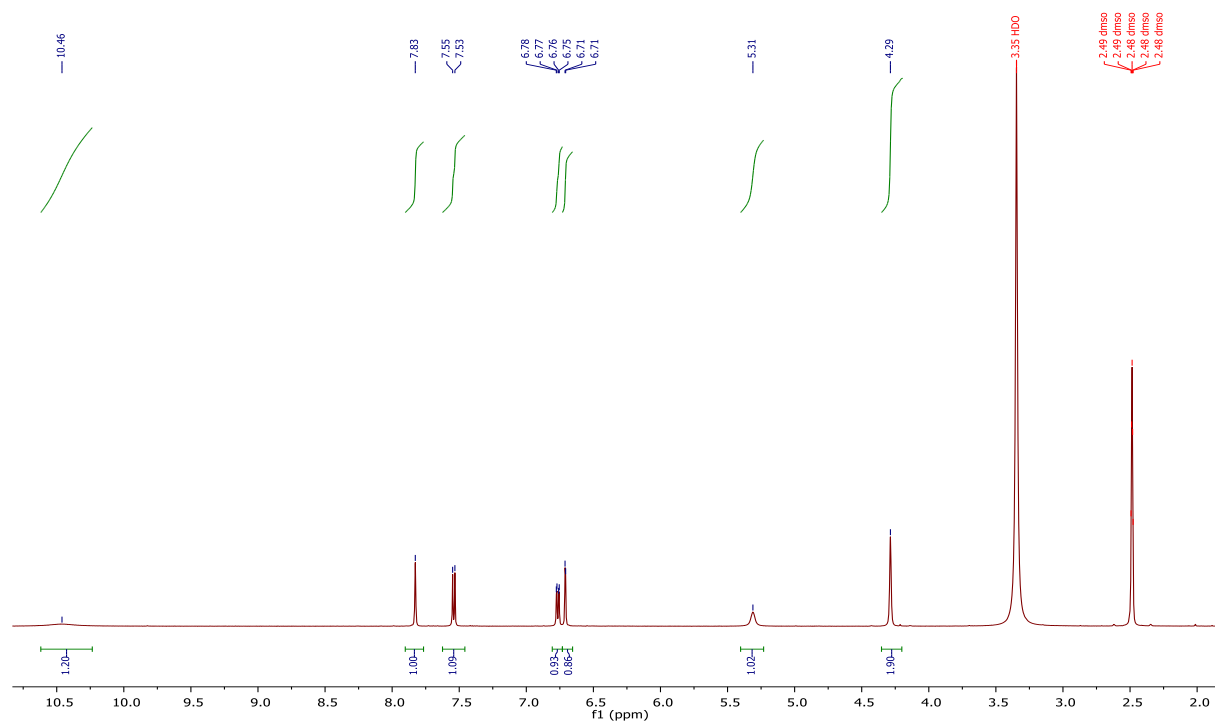
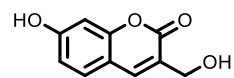
(7-acetyl-2-oxo-2H-chromen-3-yl)methyl acetate (3.8) - (500 MHz, CDCl₃)



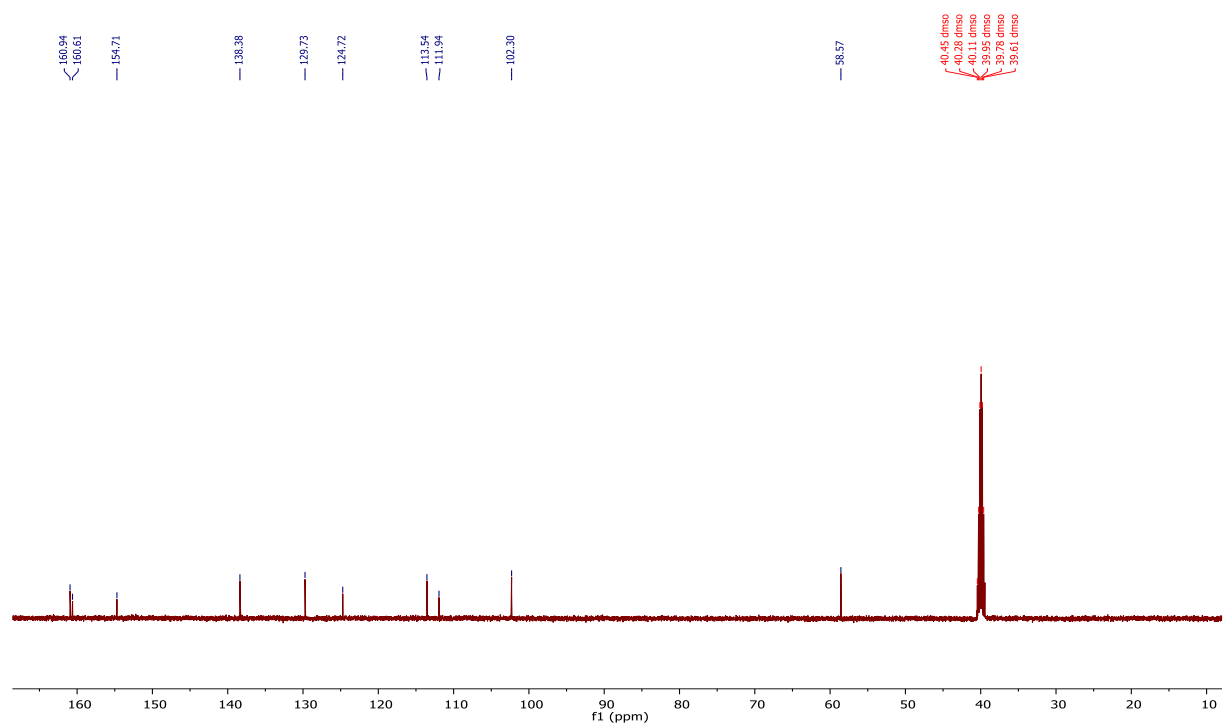
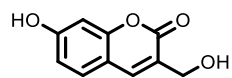
(7-acetyl-2-oxo-2H-chromen-3-yl)methyl acetate (3.8)- (126 MHz, CDCl₃)



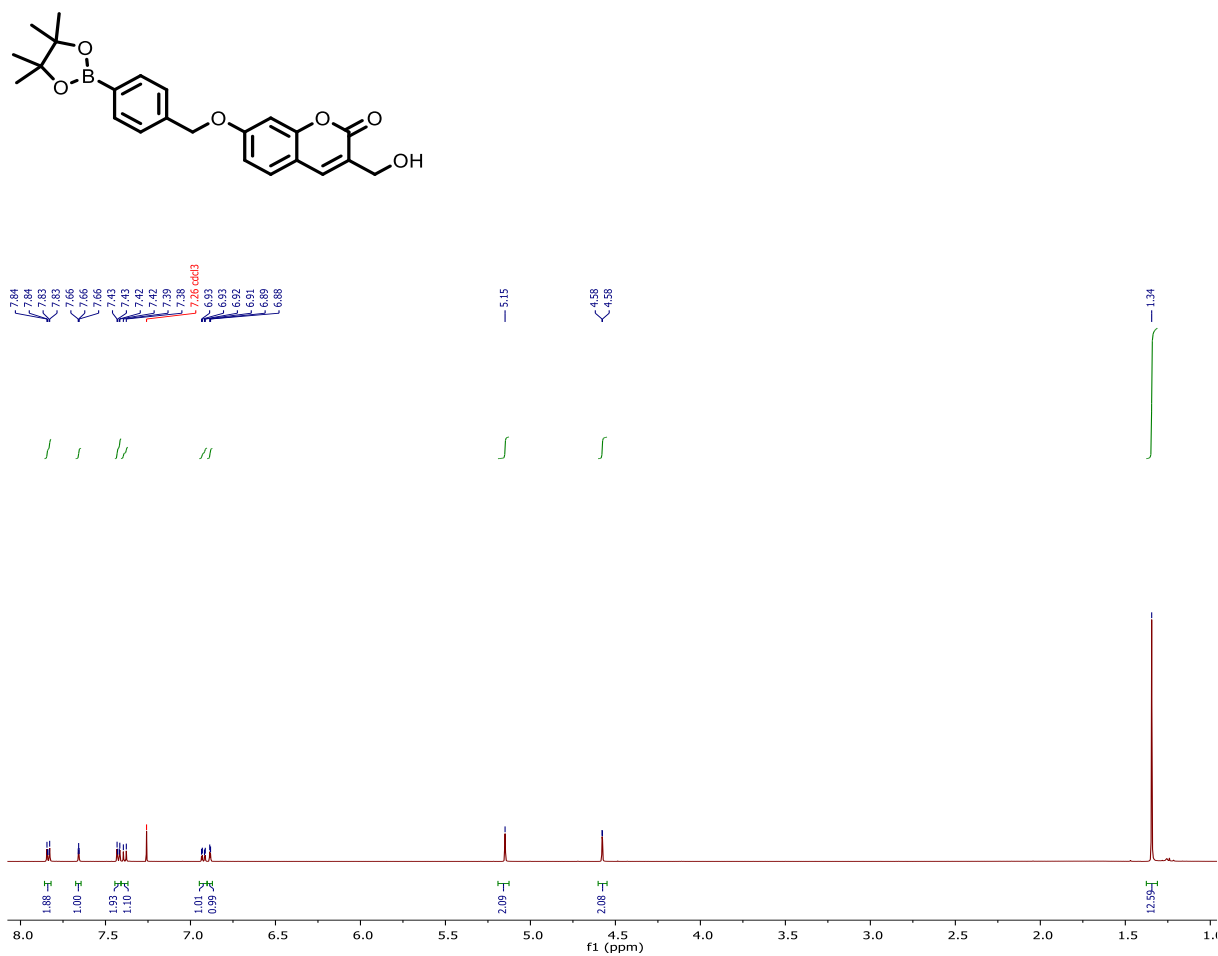
7-Hydroxy-3-(hydroxymethyl)-2H-chromen-2-one (3.9)– (500 MHz, DMSO-*d*₆)



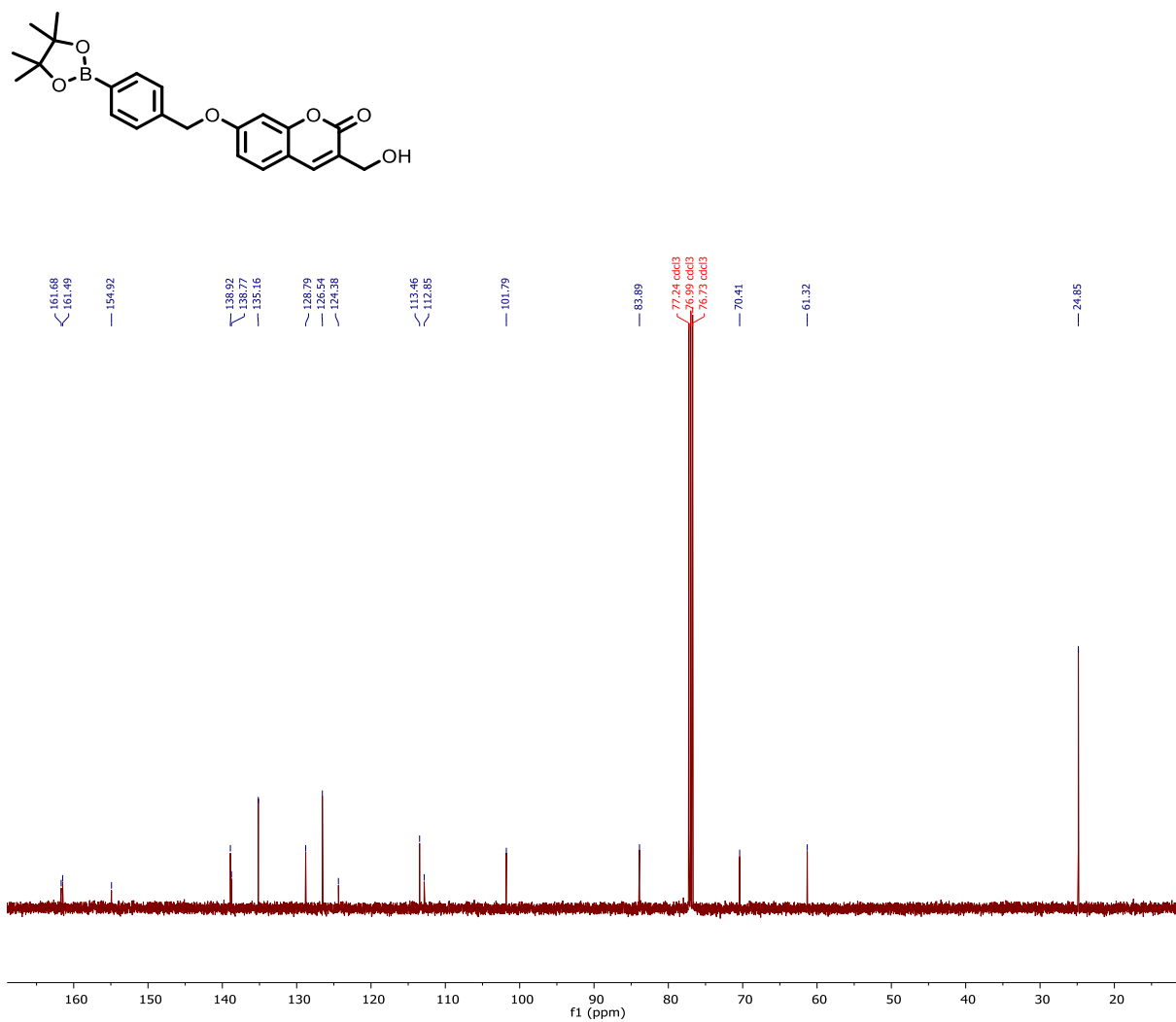
7-hydroxy-3-(hydroxymethyl)-2H-chromen-2-one (3.9)– (126 MHz, DMSO-*d*₆)



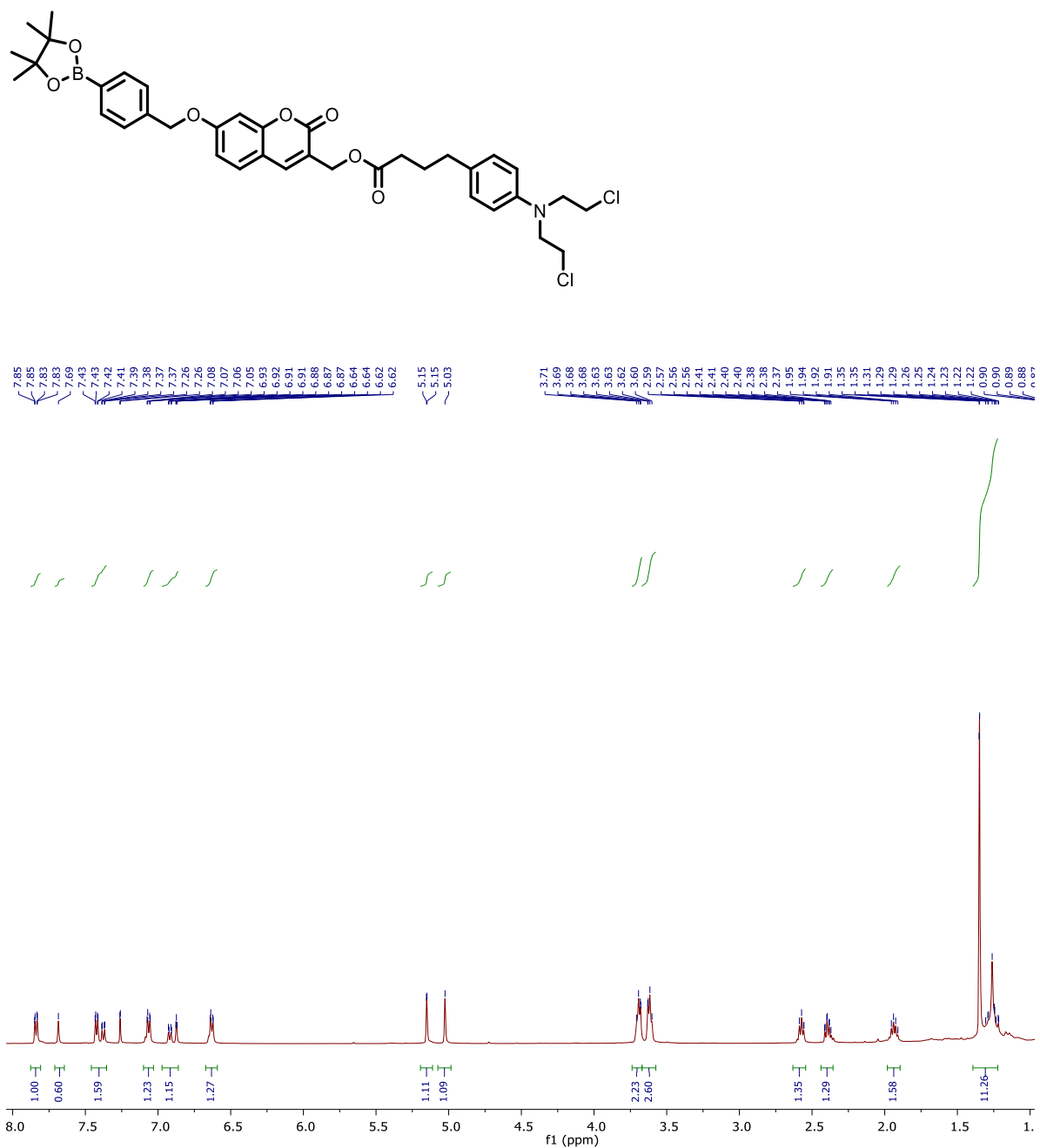
3-(hydroxymethyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-2-one (3.10) –(500 MHz, CDCl₃).



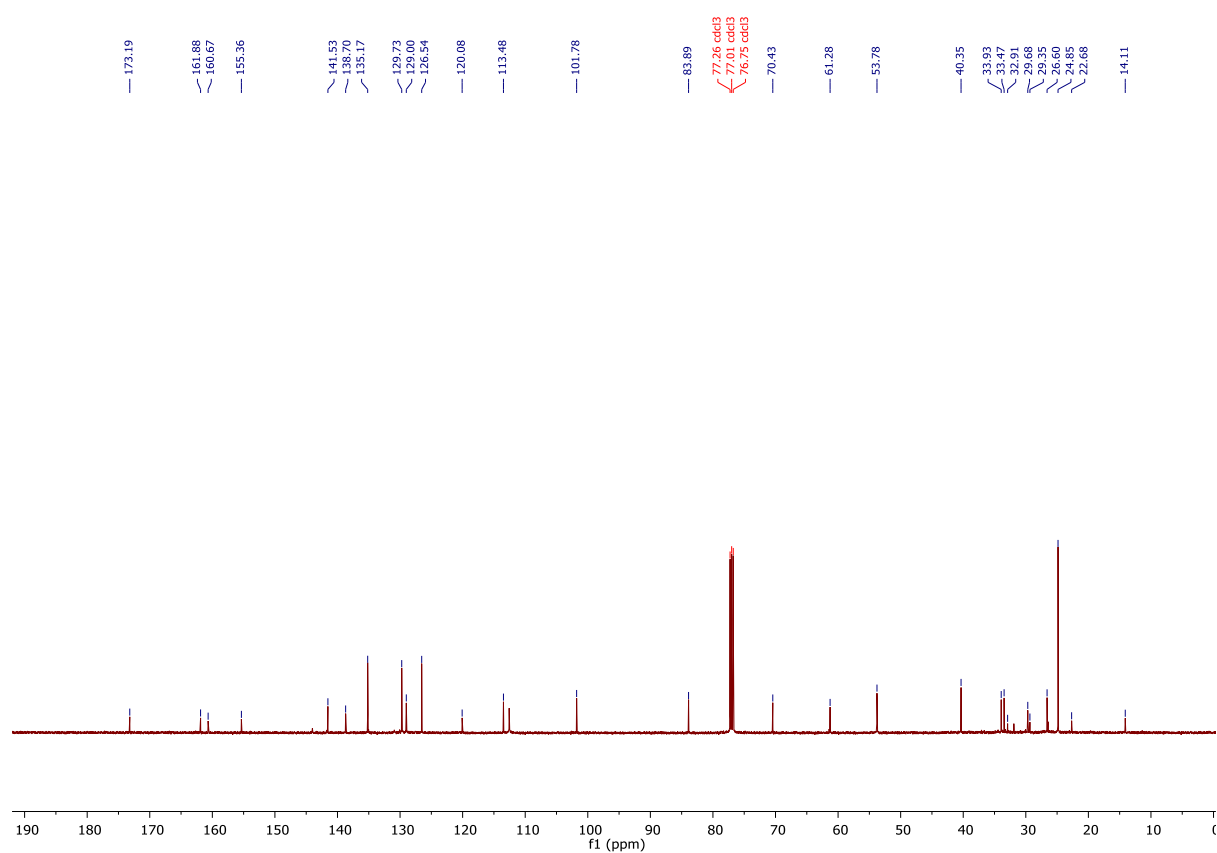
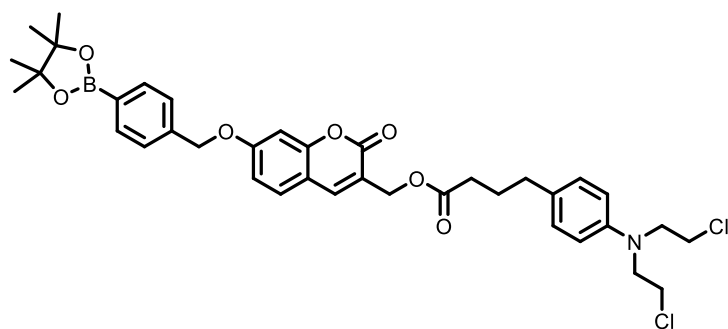
(hydroxymethyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2*H*-chromen-2-one (3.10) –(126 MHz, CDCl₃).



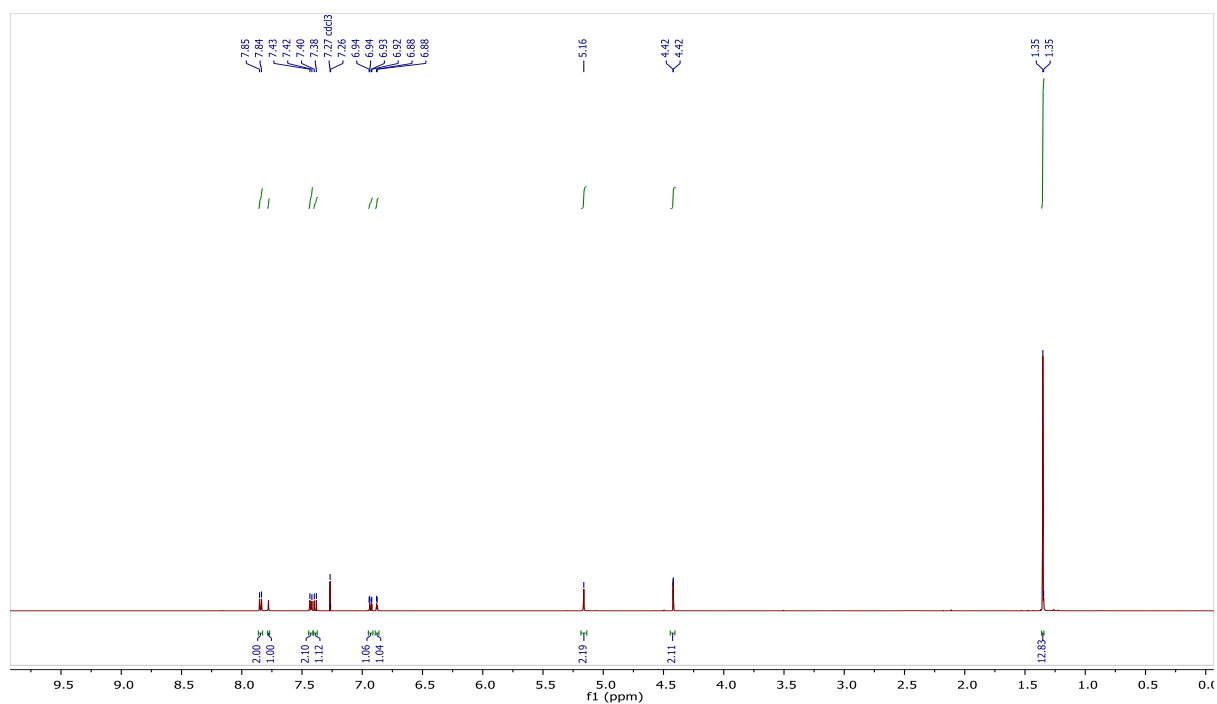
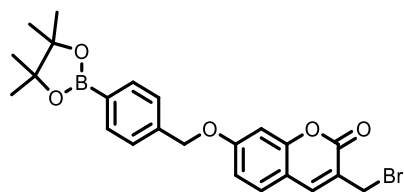
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-3-yl)methyl 4-(4-(bis(2-chloroethyl)amino)phenyl)butanoate (CC-RNS)- (500 MHz, CDCl₃)



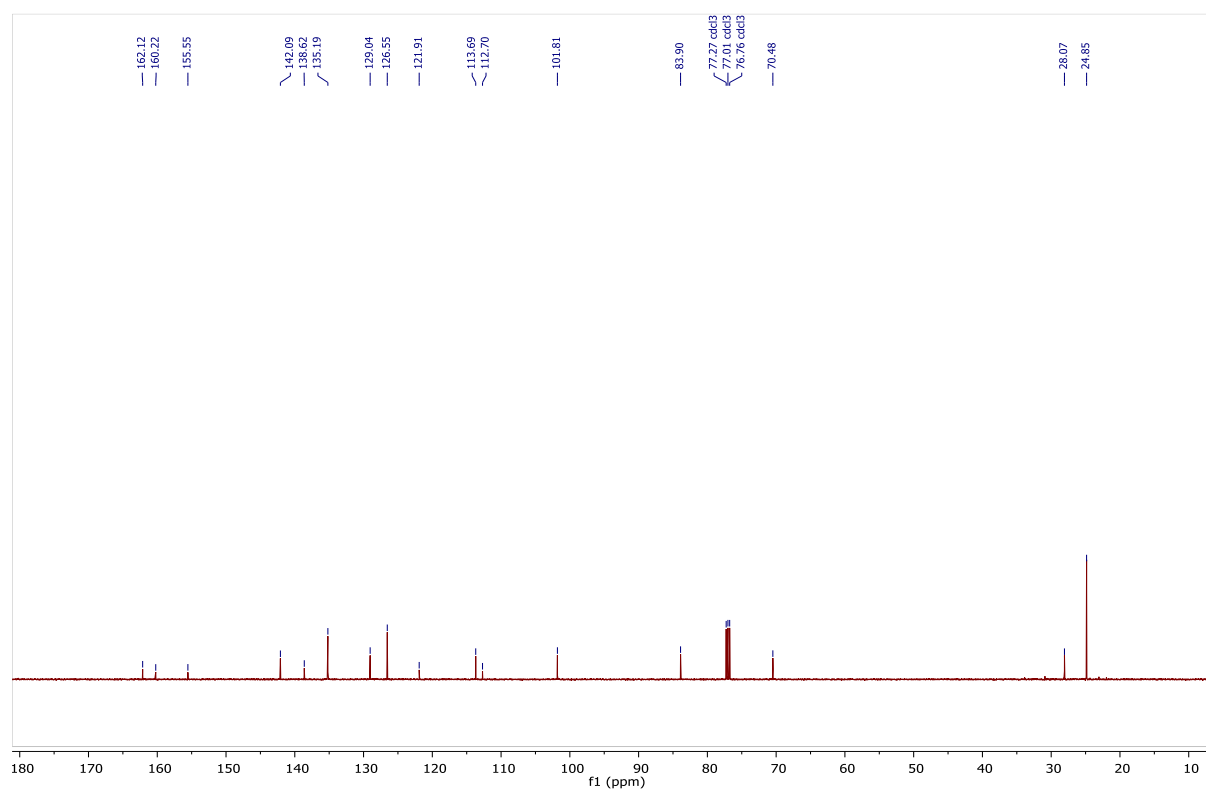
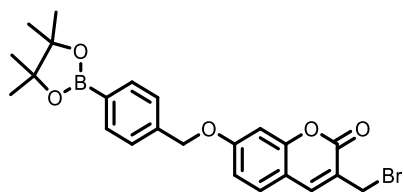
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-3-yl)methyl 4-(4-(bis(2-chloroethyl)amino)phenyl)butanoate (CC-RNS)- (126 MHz, CDCl₃)



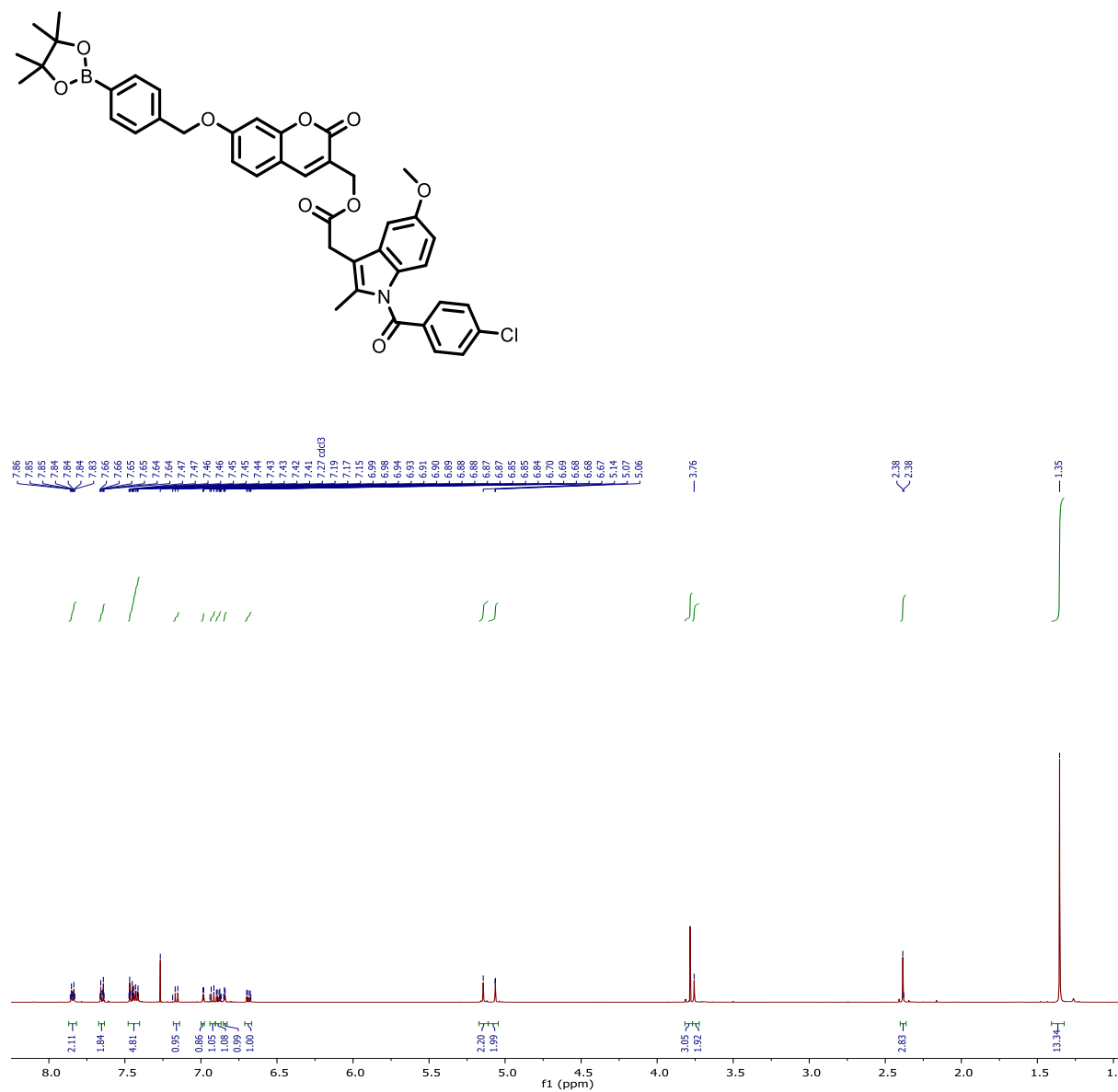
3-(bromomethyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-2-one (3.11)- (500 MHz, CDCl₃).



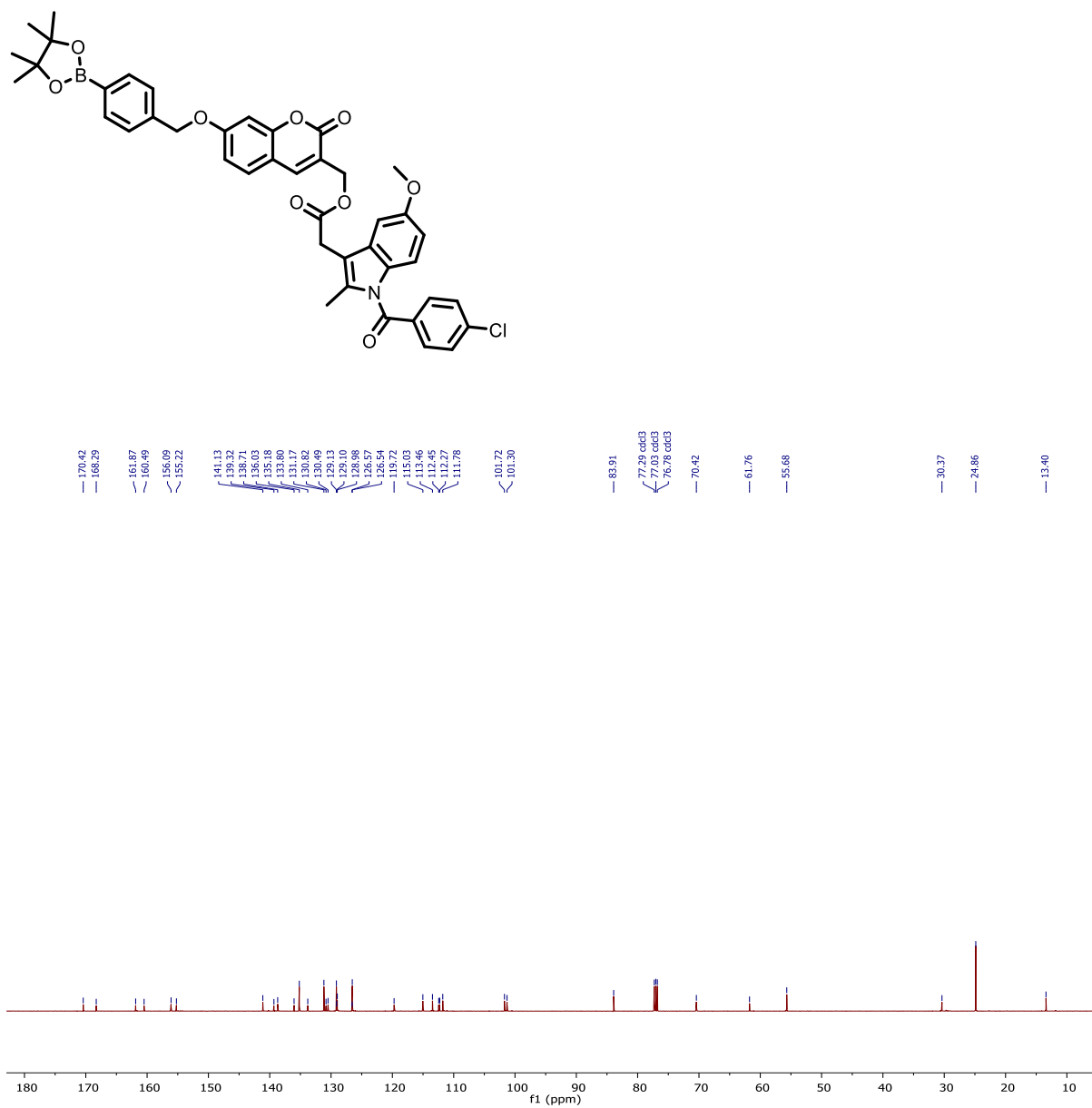
3-(bromomethyl)-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-2-one (3.11)- (126 MHz, CDCl₃)



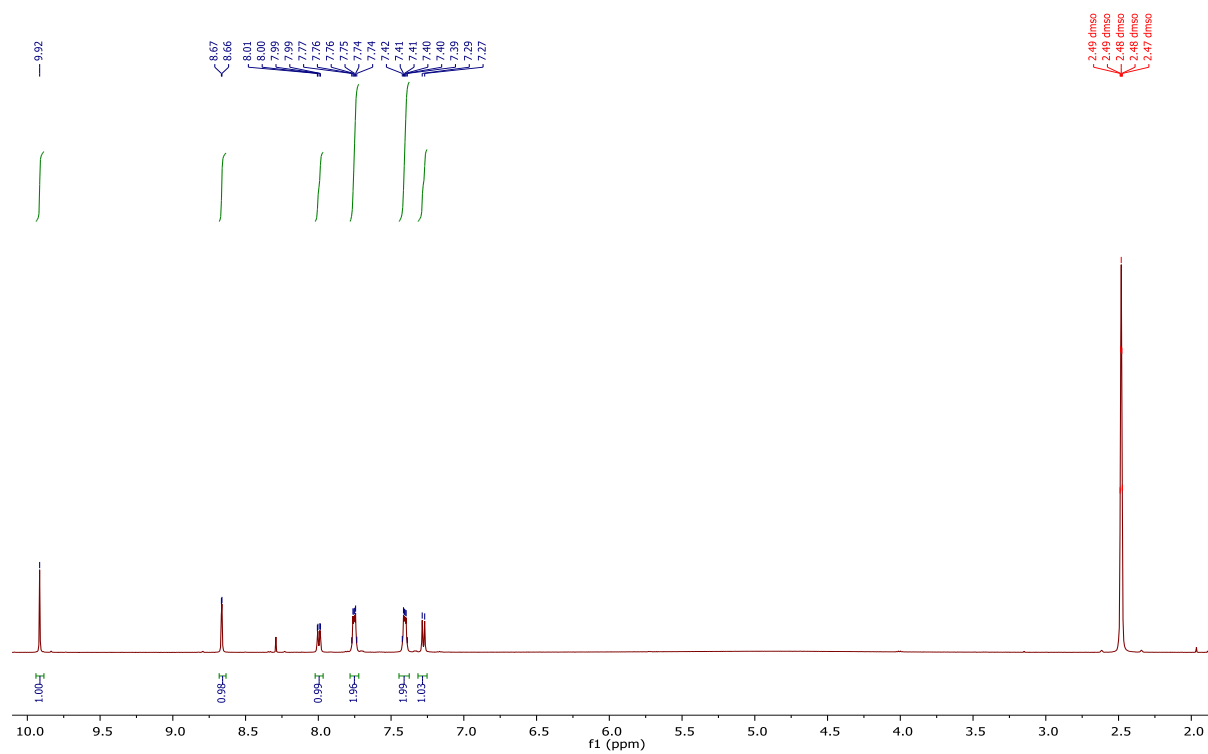
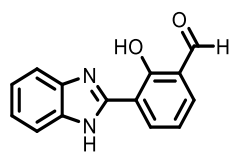
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-3-yl)methyl 2-(1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl)acetate (CI-RNS)- (500 MHz, CDCl₃)



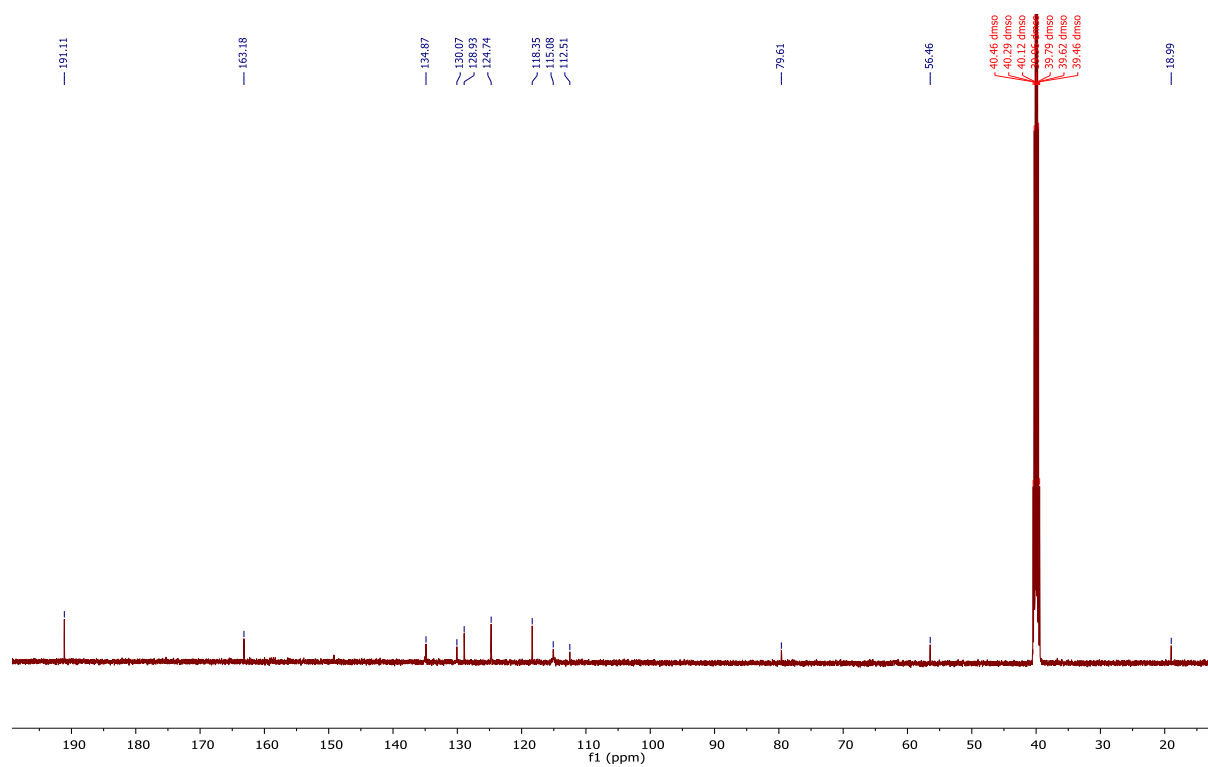
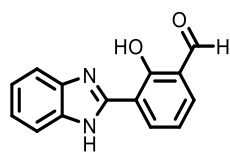
(2-oxo-7-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-2H-chromen-3-yl)methyl 2-(1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1H-indol-3-yl)acetate (CI-RNS)- (126 MHz, CDCl₃)



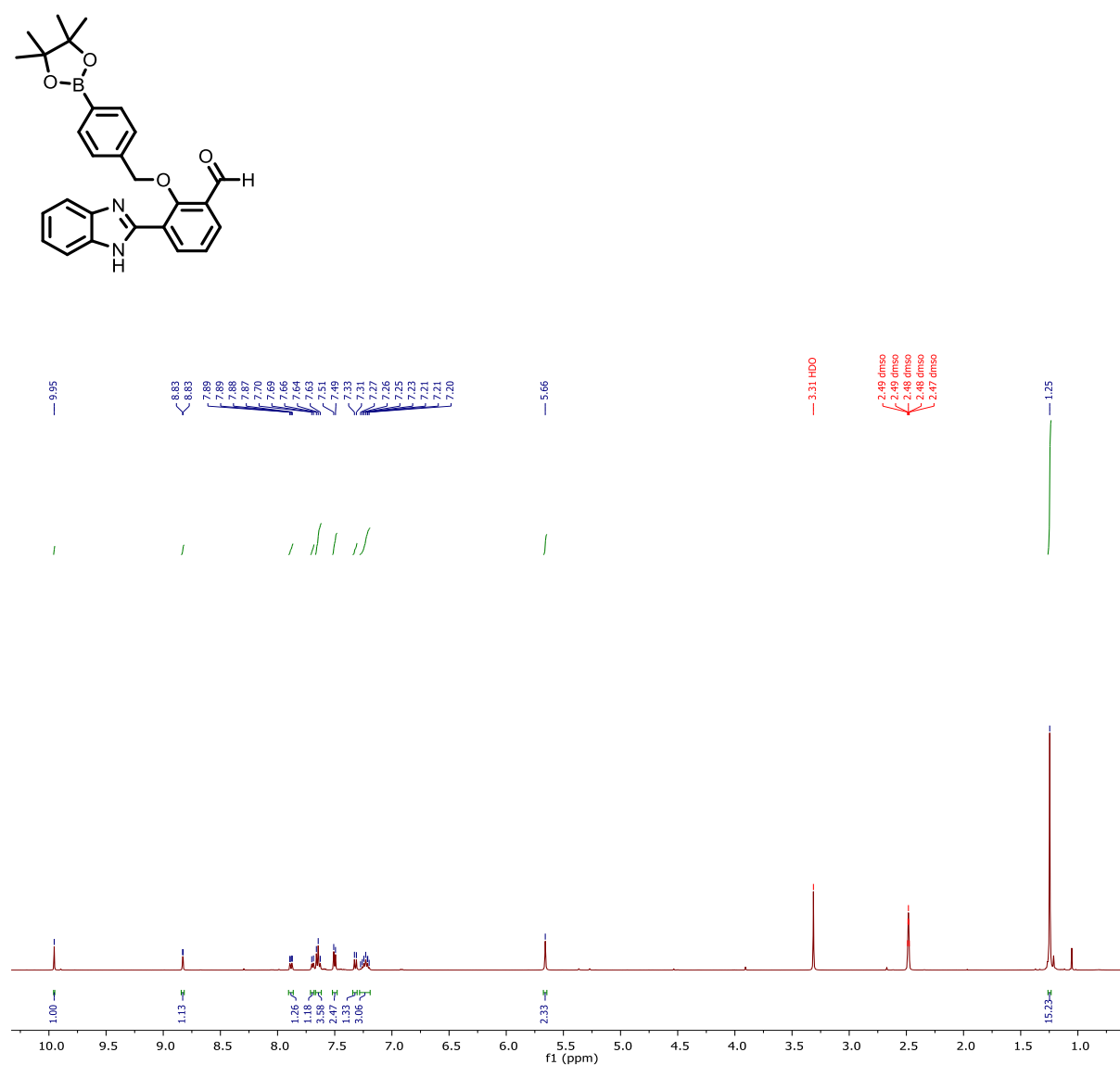
3-(1*H*-benzo[d]imidazol-2-yl)-2-hydroxybenzaldehyde (4.7)- (500 MHz DMSO-*d*₆)



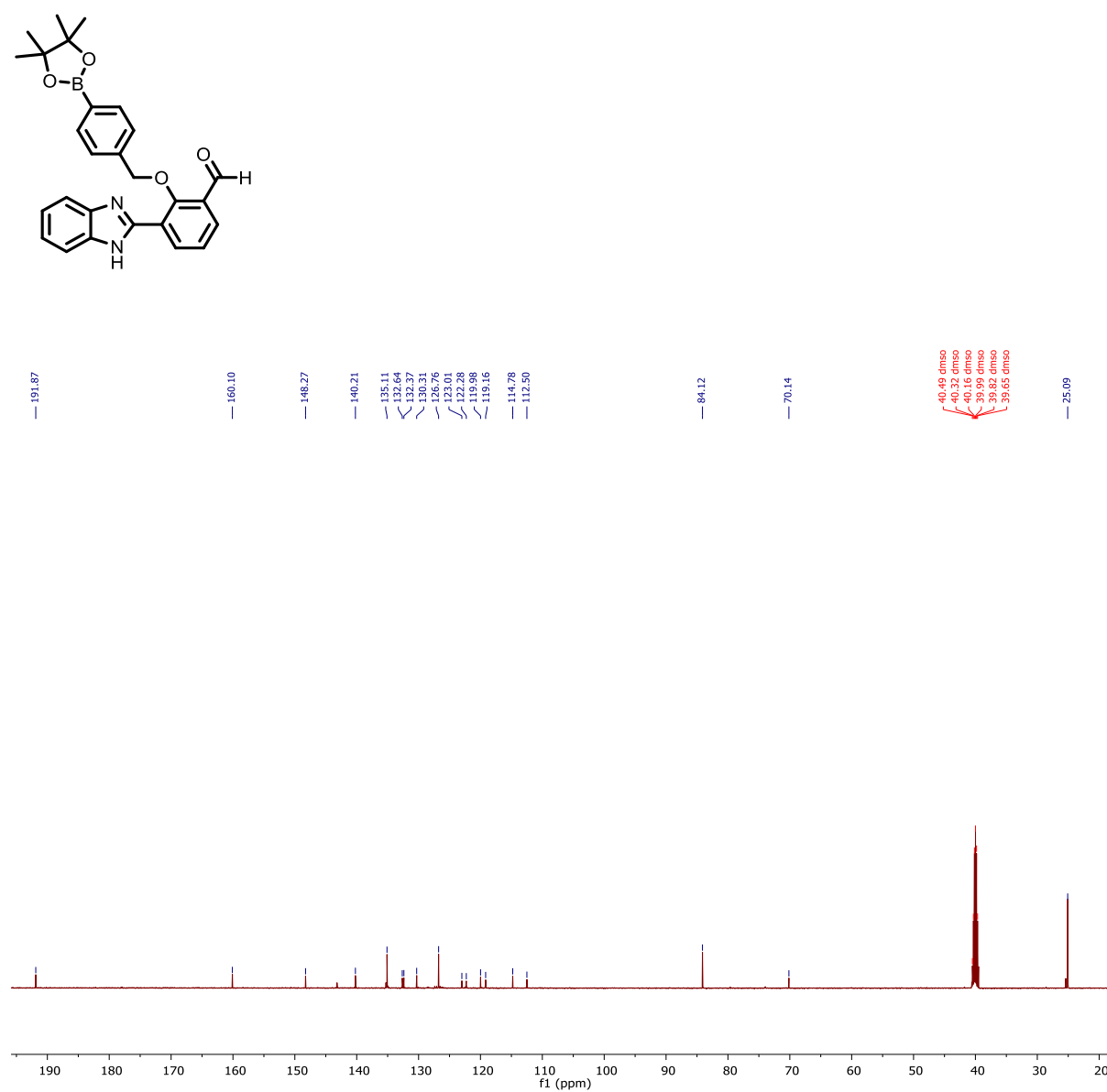
3-(1*H*-benzo[d]imidazol-2-yl)-2-hydroxybenzaldehyde (4.7)- (126 MHz, DMSO-*d*₆)



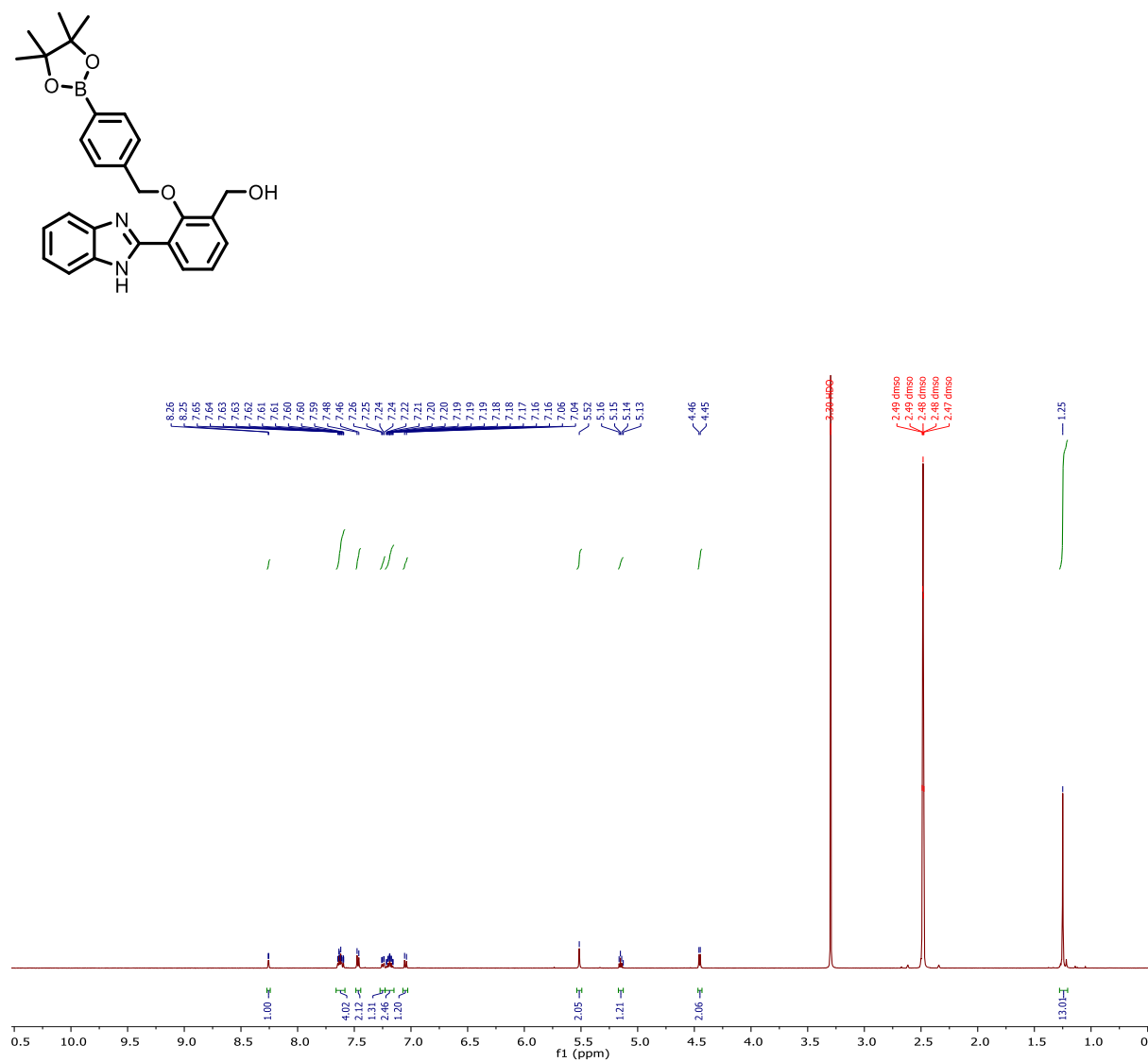
3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)benzaldehyde (ESIPT3)- (500 MHz, DMSO-*d*₆)



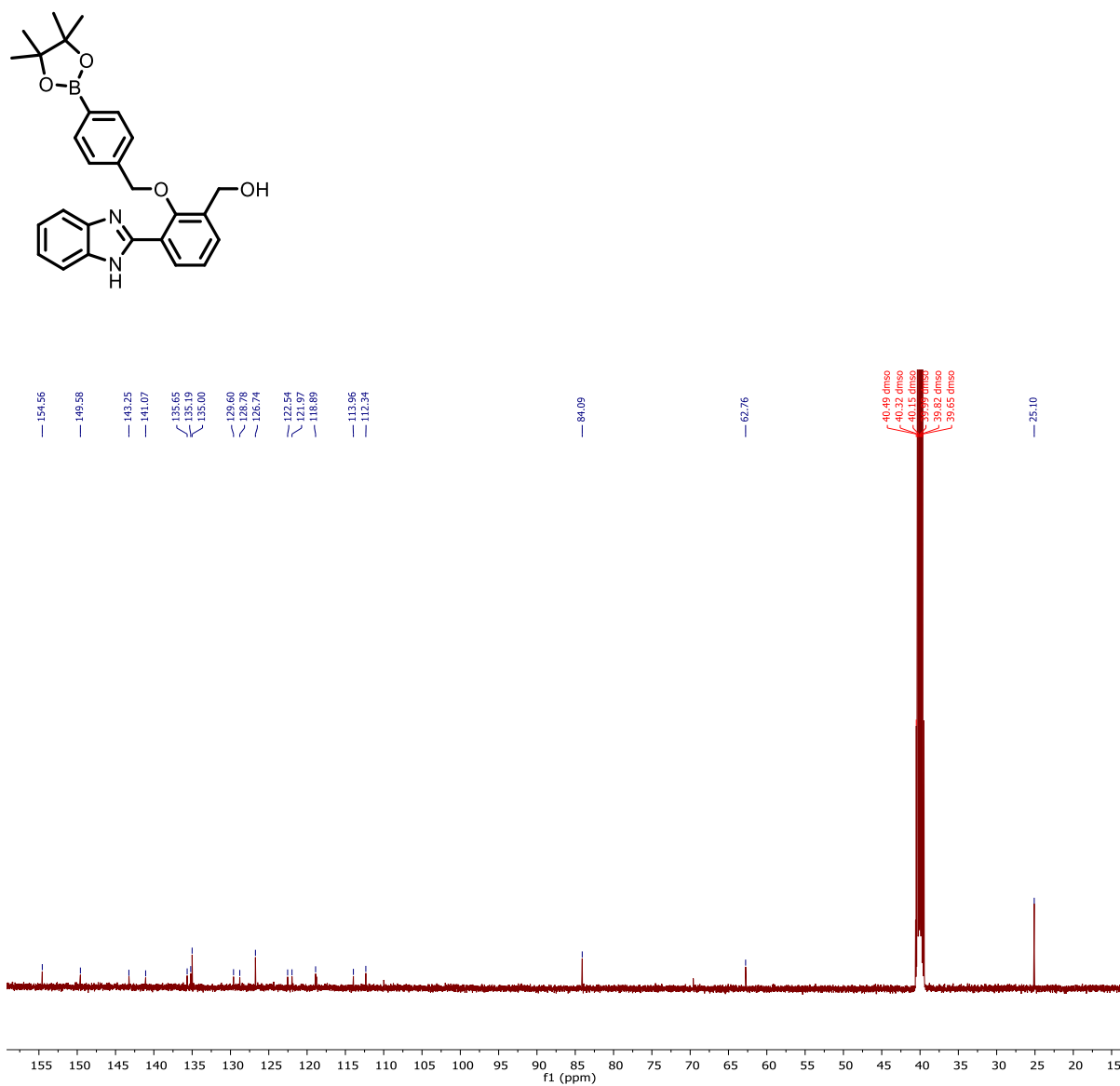
3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)benzaldehyde (ESIPT3)- (126 MHz, DMSO-*d*₆)



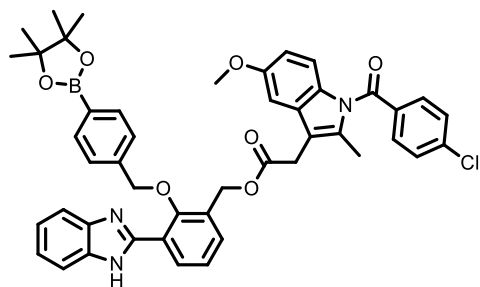
(3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)phenyl)methanol (ESIPT2)- (500 MHz, DMSO-*d*₆)



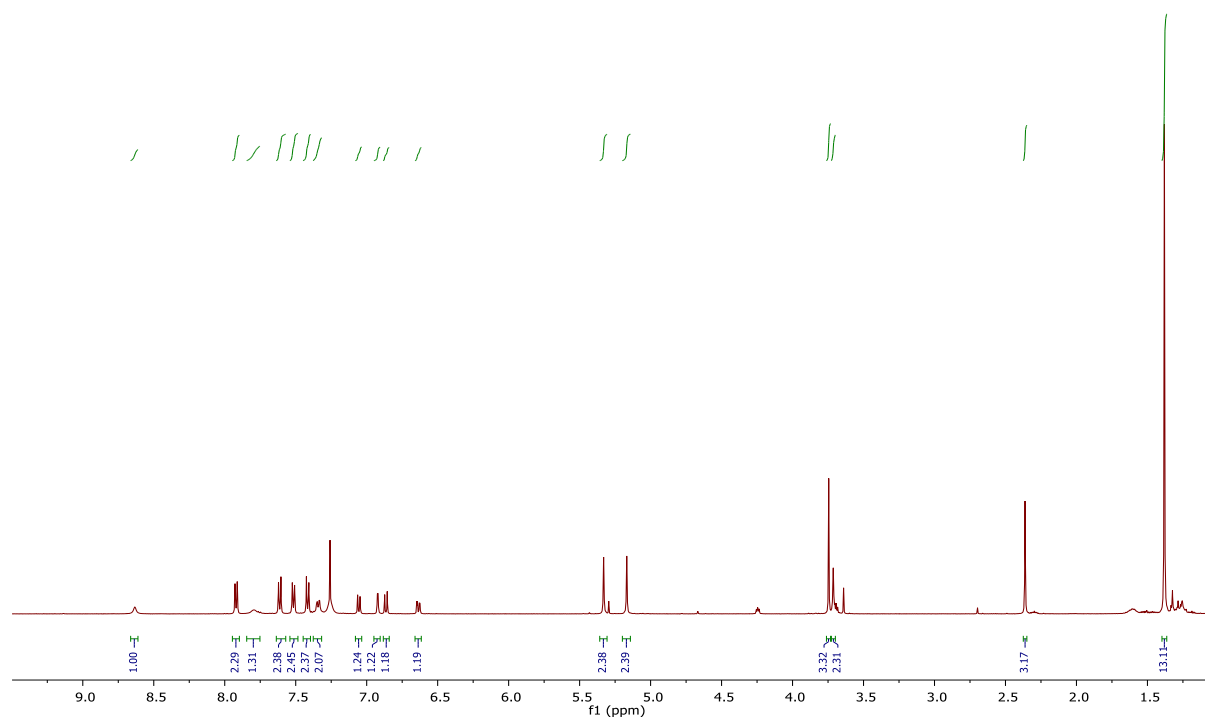
(3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)phenyl)methanol (ESIPT2)- (126 MHz, DMSO-*d*₆)



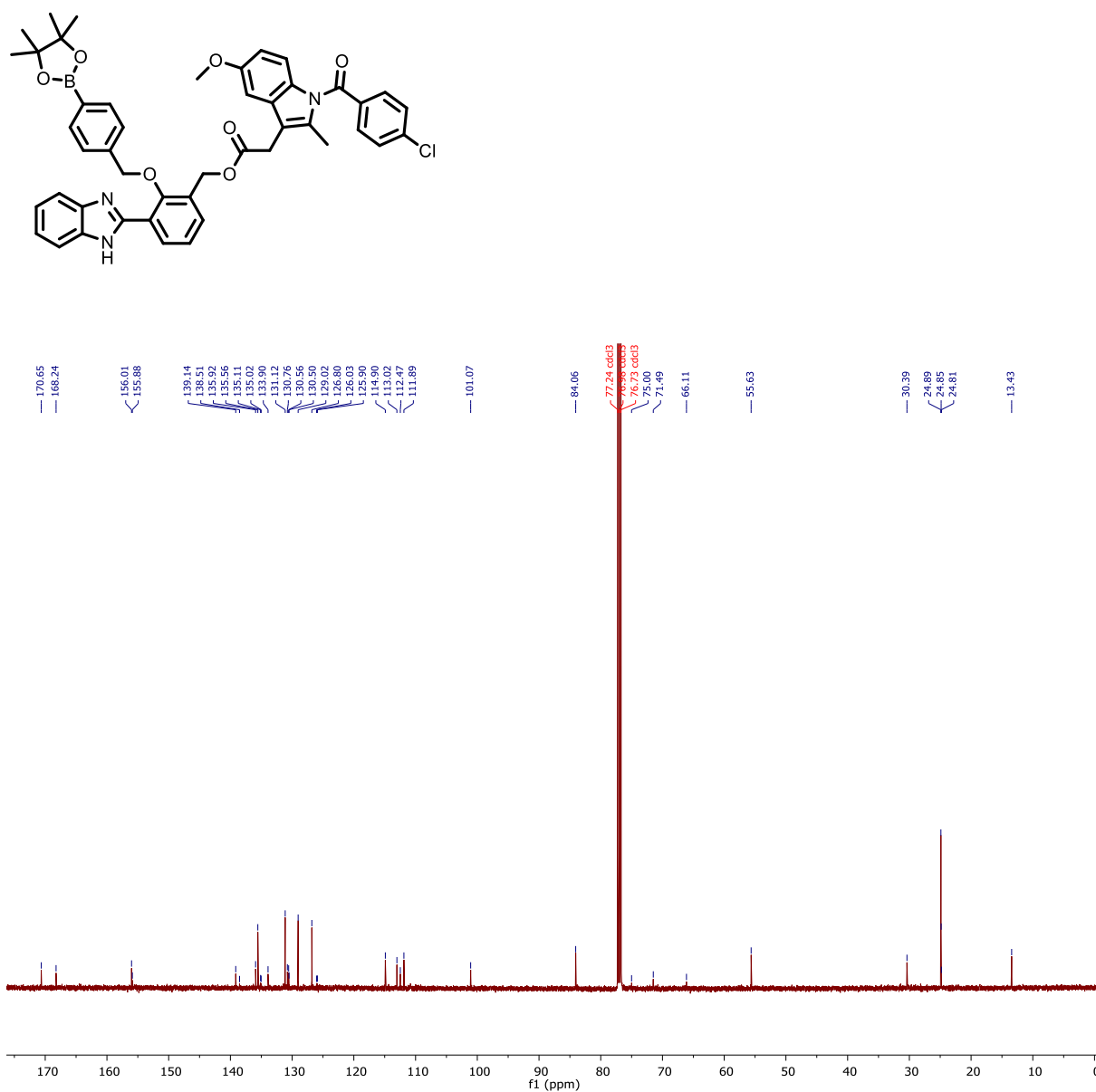
3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)benzyl 2-(1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1*H*-indol-3-yl)acetate (ESIPT1)- (500 MHz, CDCl₃)



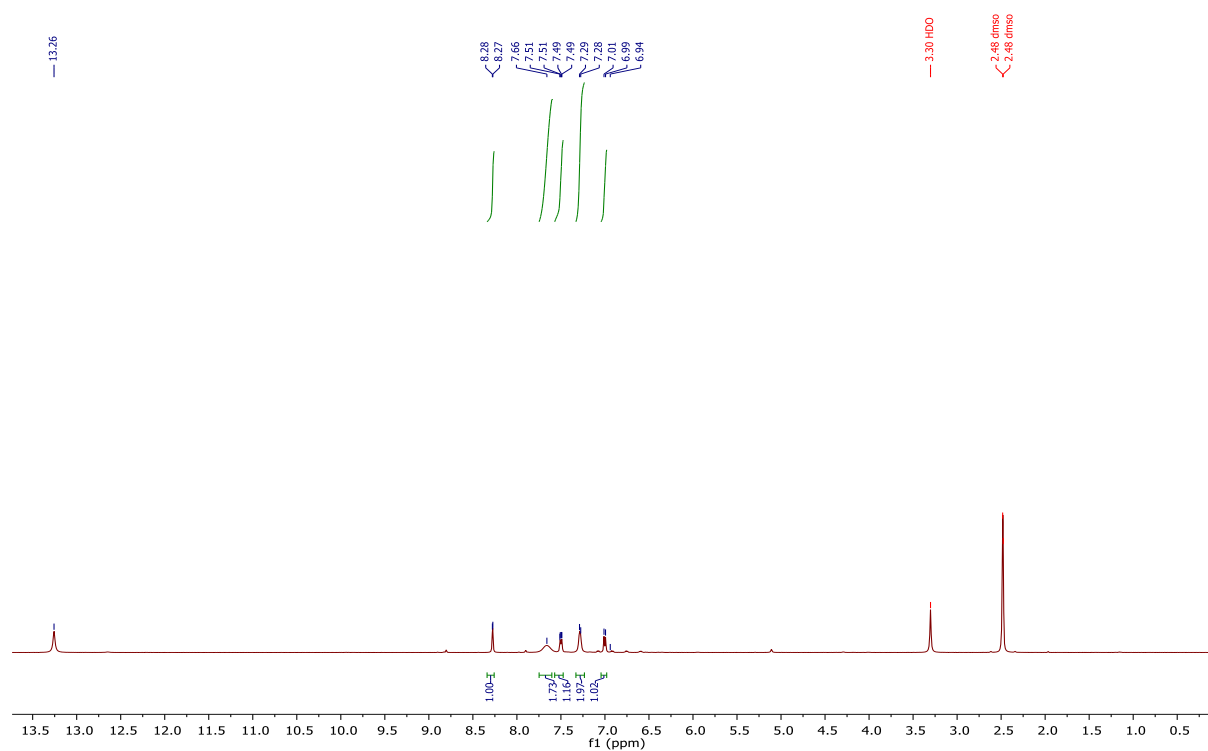
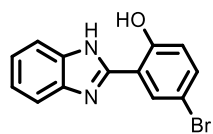
PROTON_01



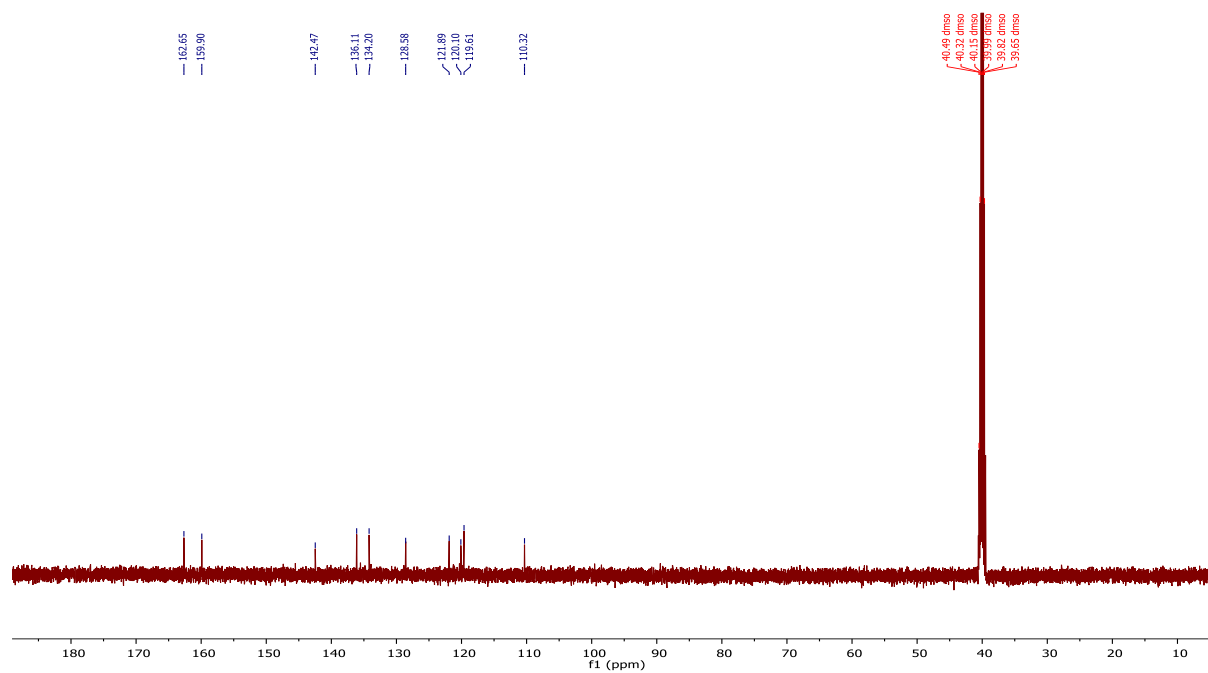
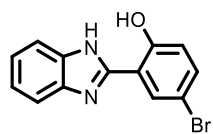
3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)benzyl 2-(1-(4-chlorobenzoyl)-5-methoxy-2-methyl-1*H*-indol-3-yl)acetate (ESIPT1)- (126 MHz, CDCl₃)



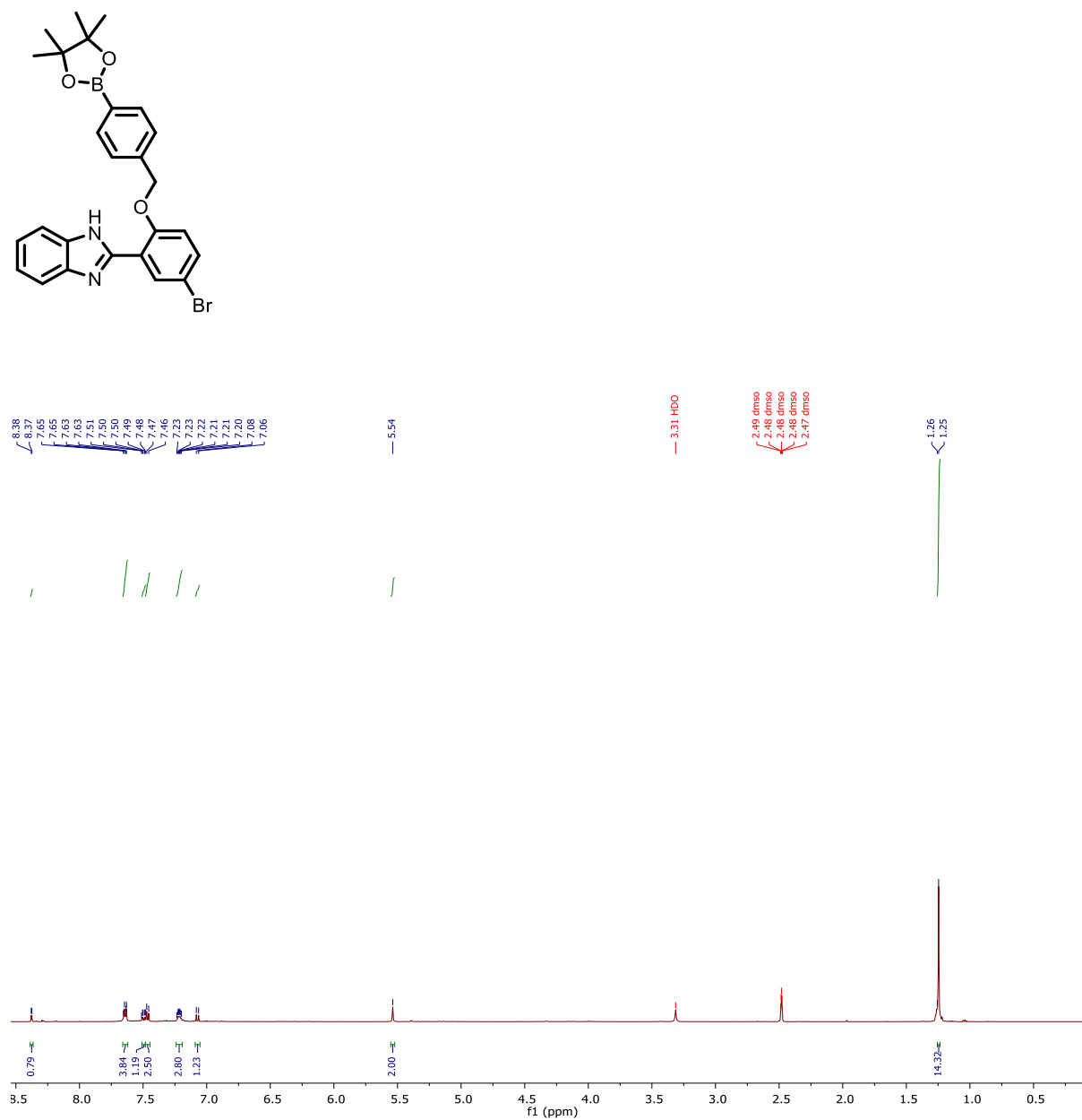
2-(1*H*-benzo[d]imidazol-2-yl)-4-bromophenol (4.10a)- (500 MHz, DMSO-*d*₆)



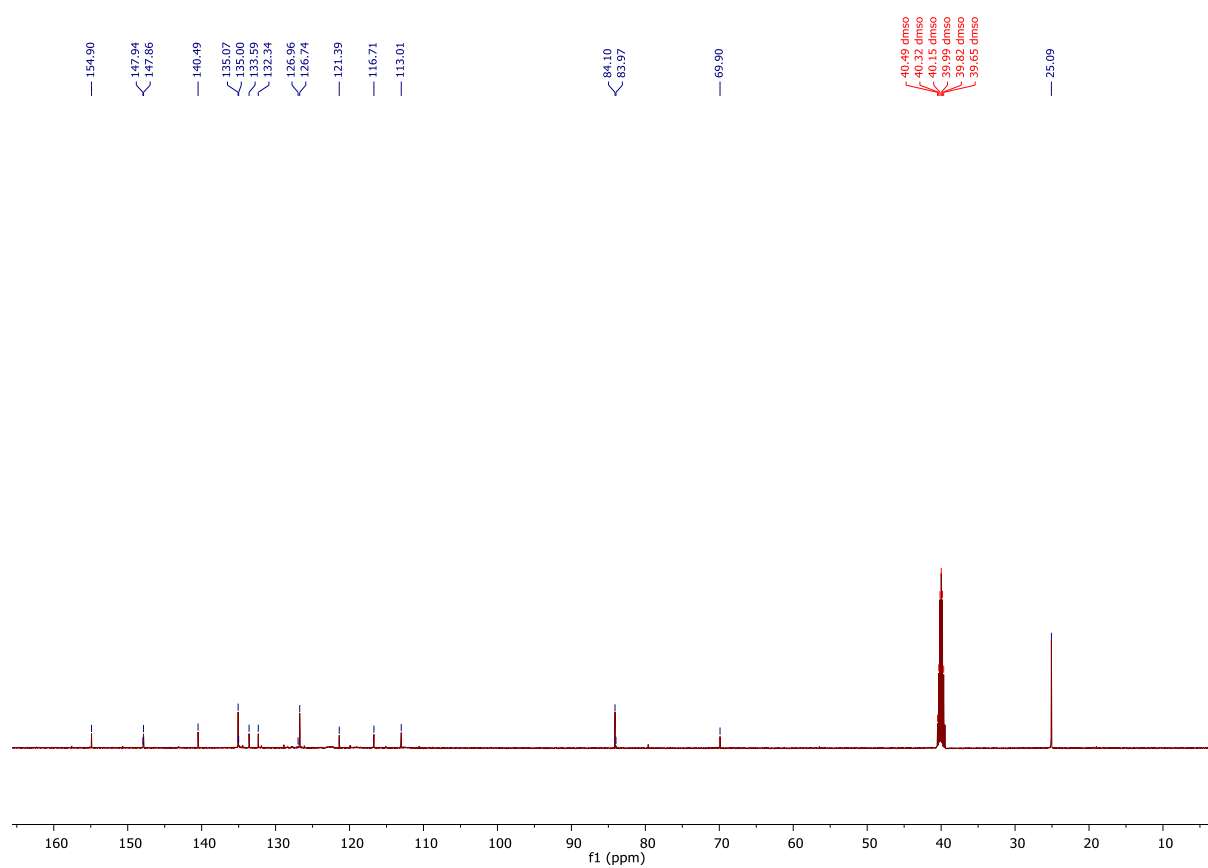
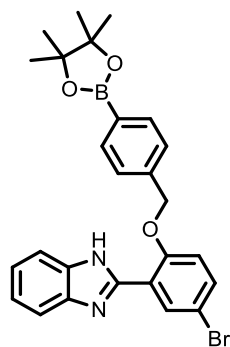
2-(1*H*-benzo[d]imidazol-2-yl)-4-bromophenol (4.10a)- (126 MHz, DMSO-*d*₆)



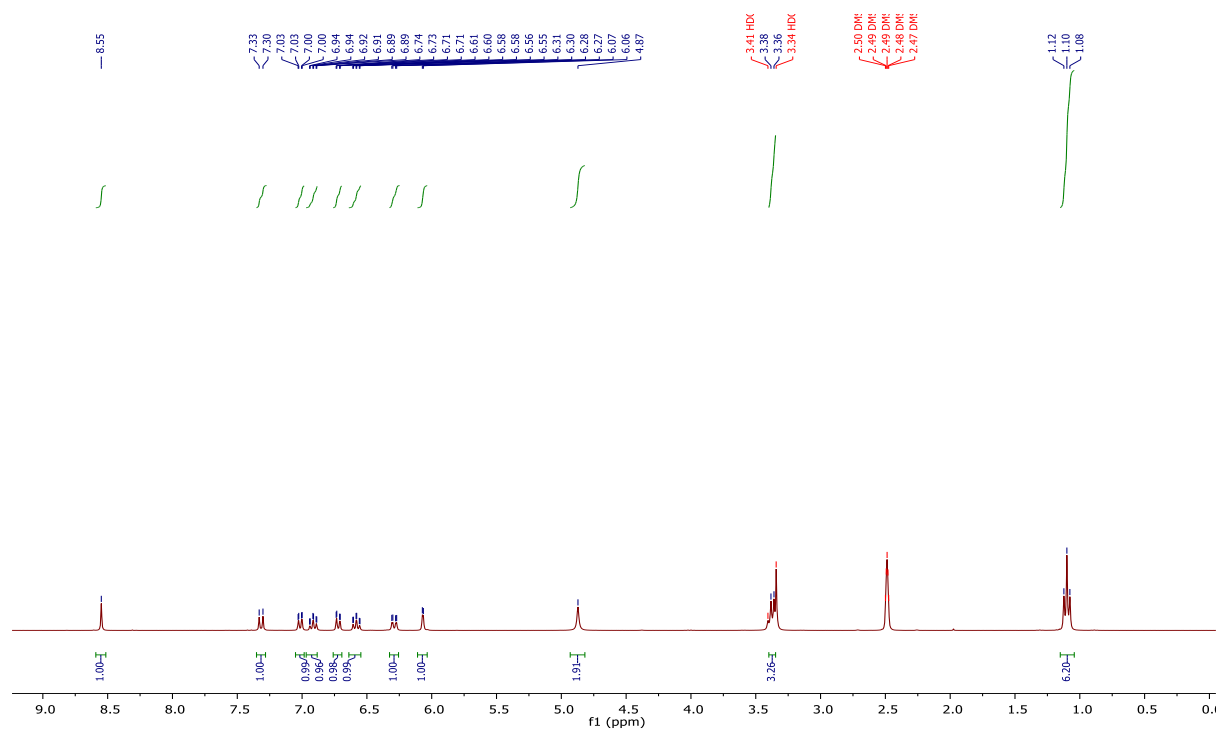
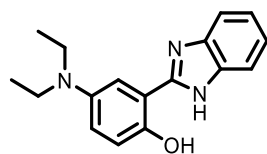
2-(5-bromo-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)phenyl)-1H-benzo[d]imidazole (ESIPT-Br)- (500 MHz, DMSO-*d*₆)



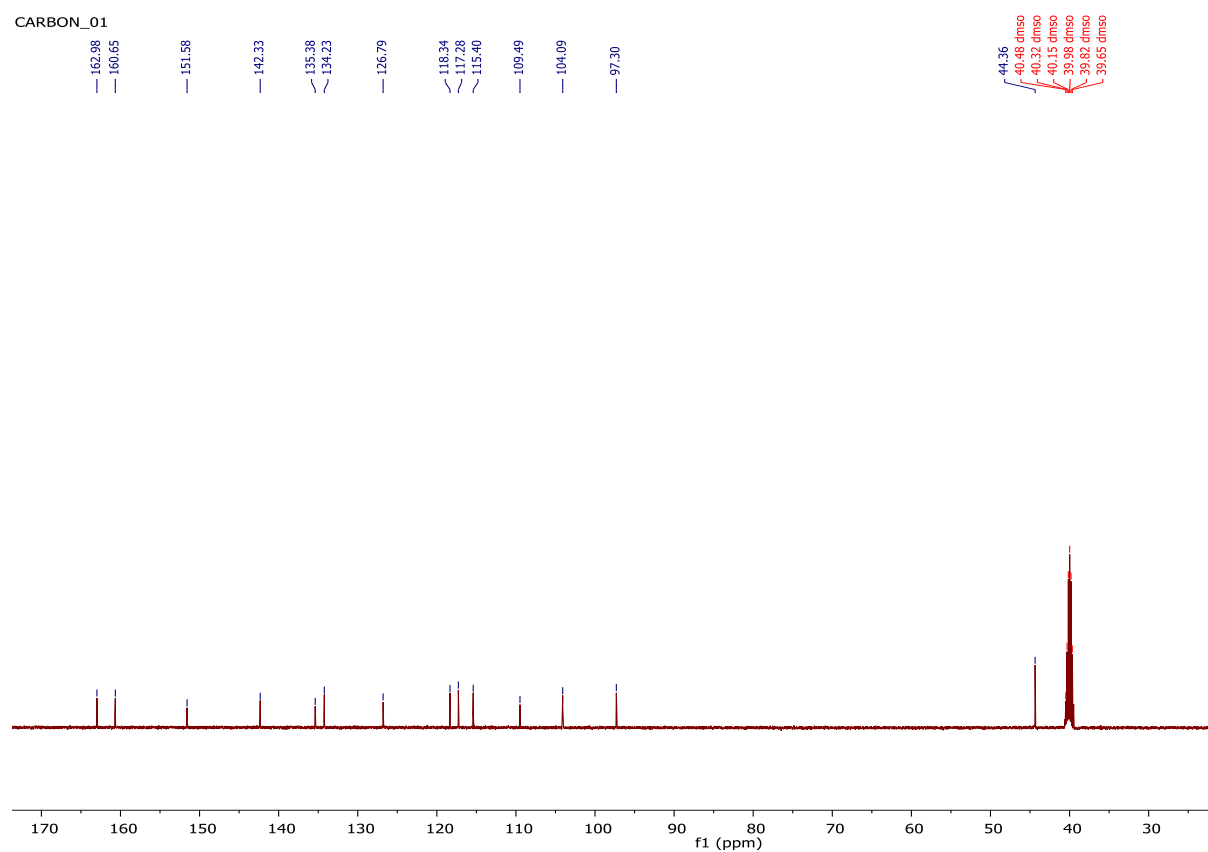
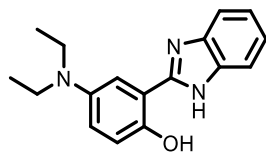
2-(5-bromo-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)phenyl)-1H-benzo[d]imidazole (ESIPT-Br)- (126 MHz, DMSO-*d*₆)



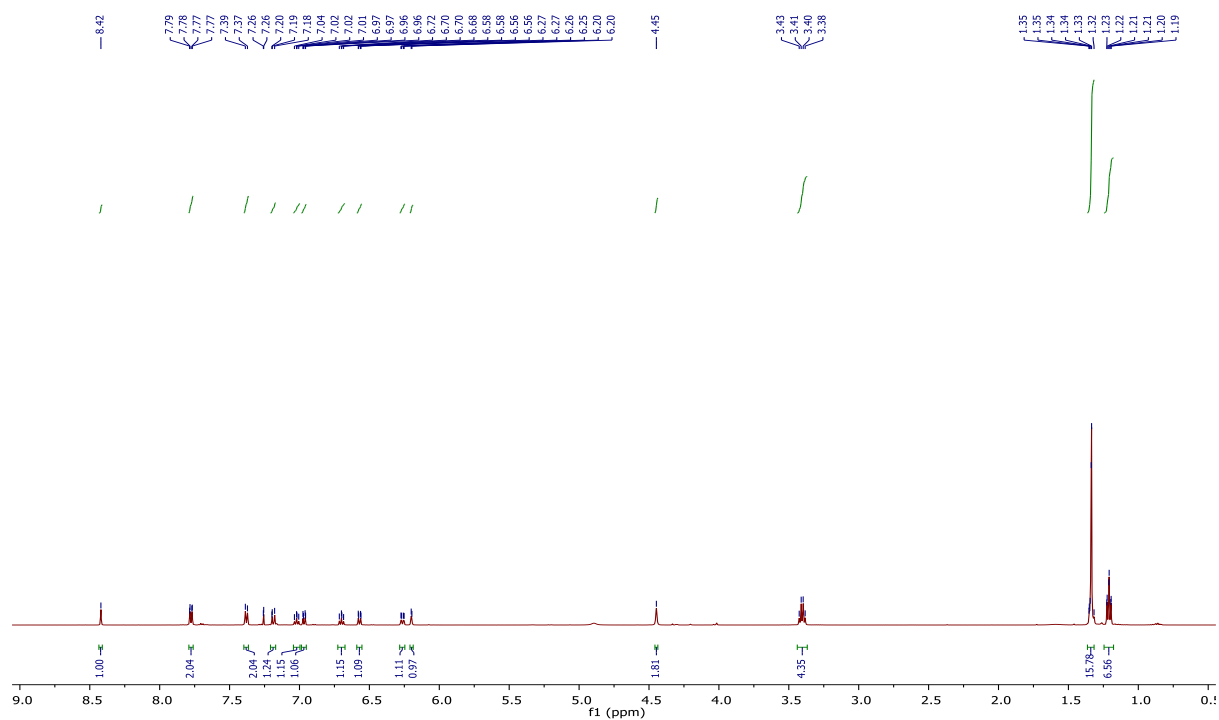
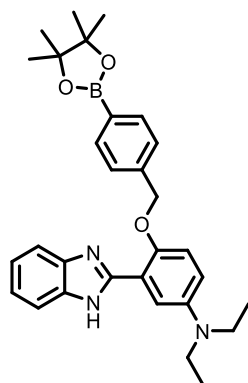
2-(1H-benzo[d]imidazol-2-yl)-4-(diethylamino)phenol (4.10b)- (500 MHz, DMSO-*d*₆)



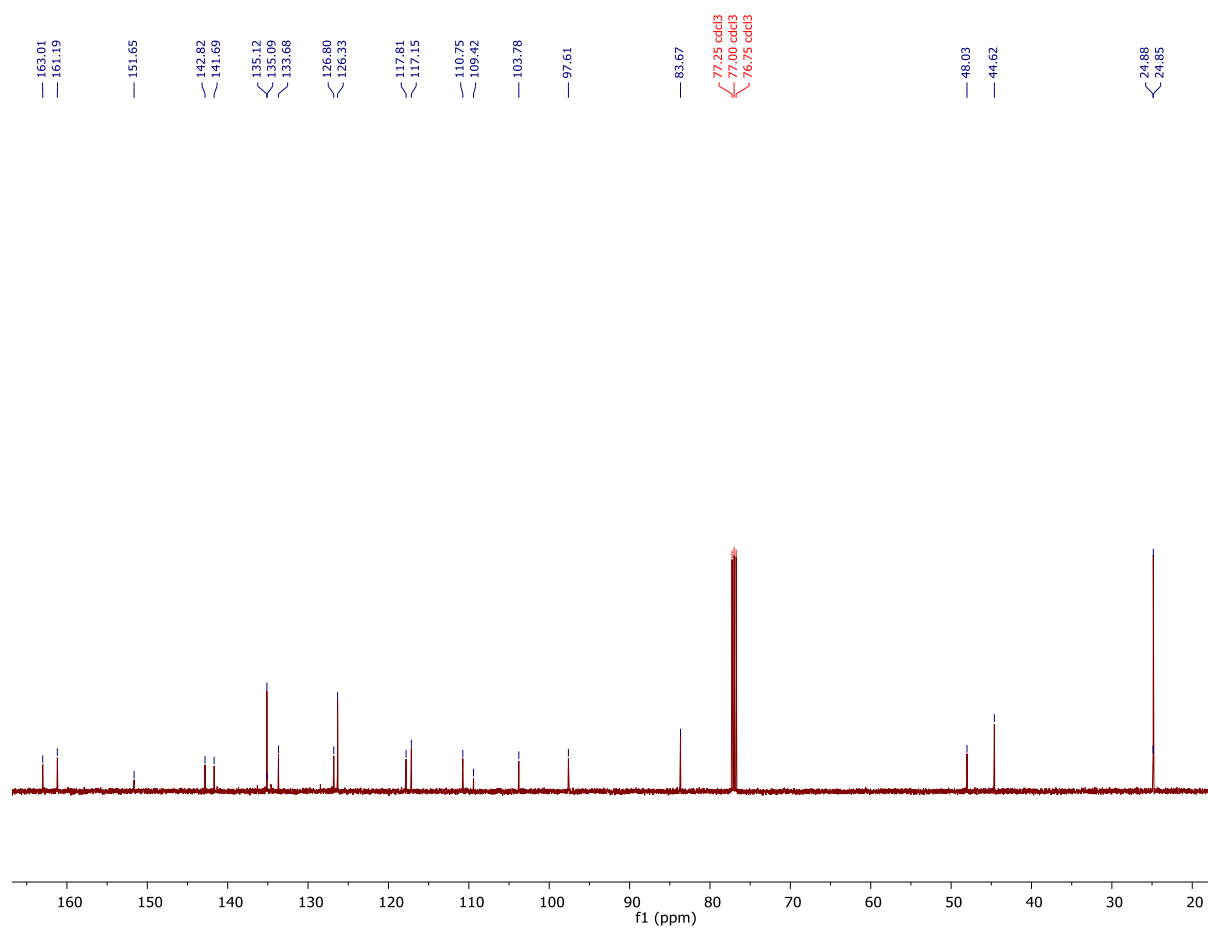
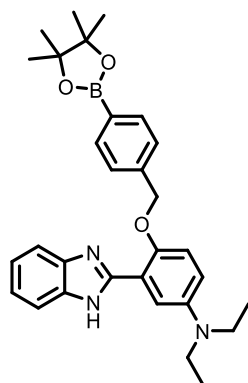
2-(1*H*-benzo[d]imidazol-2-yl)-4-(diethylamino)phenol (4.10b)- (126 MHz, DMSO-*d*₆)



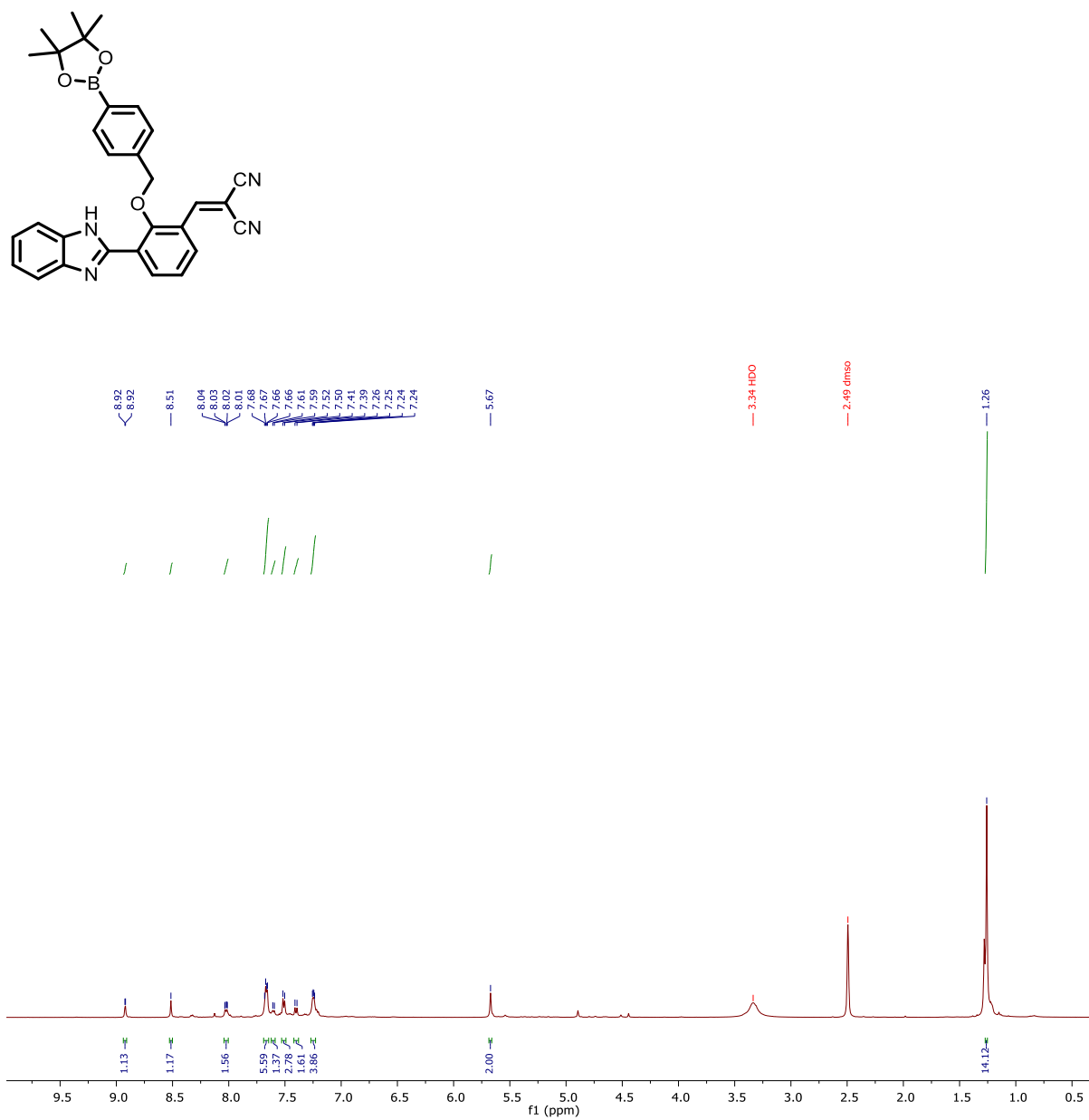
3-(1*H*-benzo[d]imidazol-2-yl)-*N,N*-diethyl-4-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)aniline (ESIPT-NEt₂)- (500 MHz, CDCl₃)



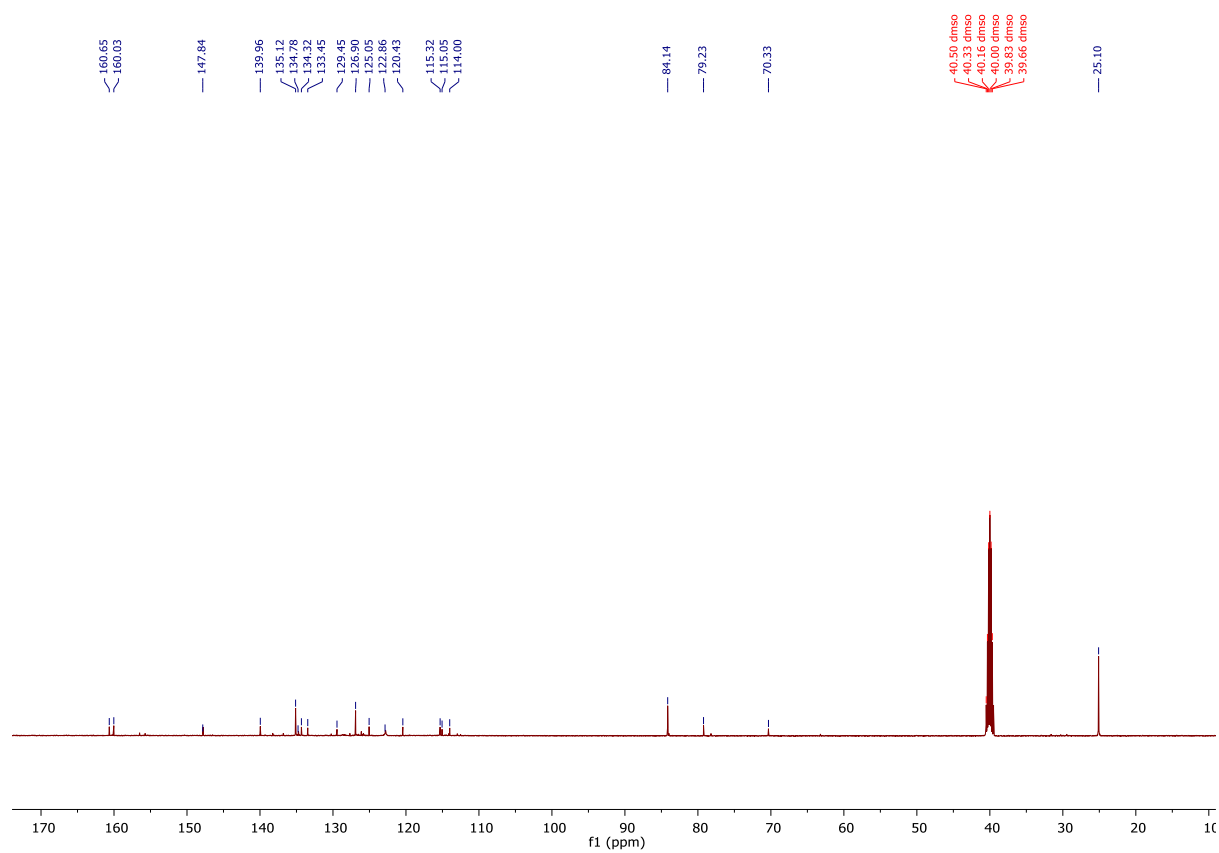
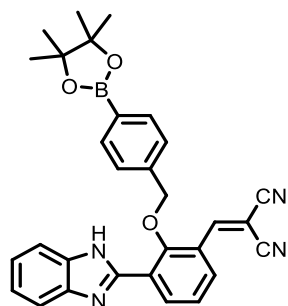
3-(1H-benzo[d]imidazol-2-yl)-N,N-diethyl-4-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)aniline - (ESIPT-NEt₂)- (126 MHz, CDCl₃)



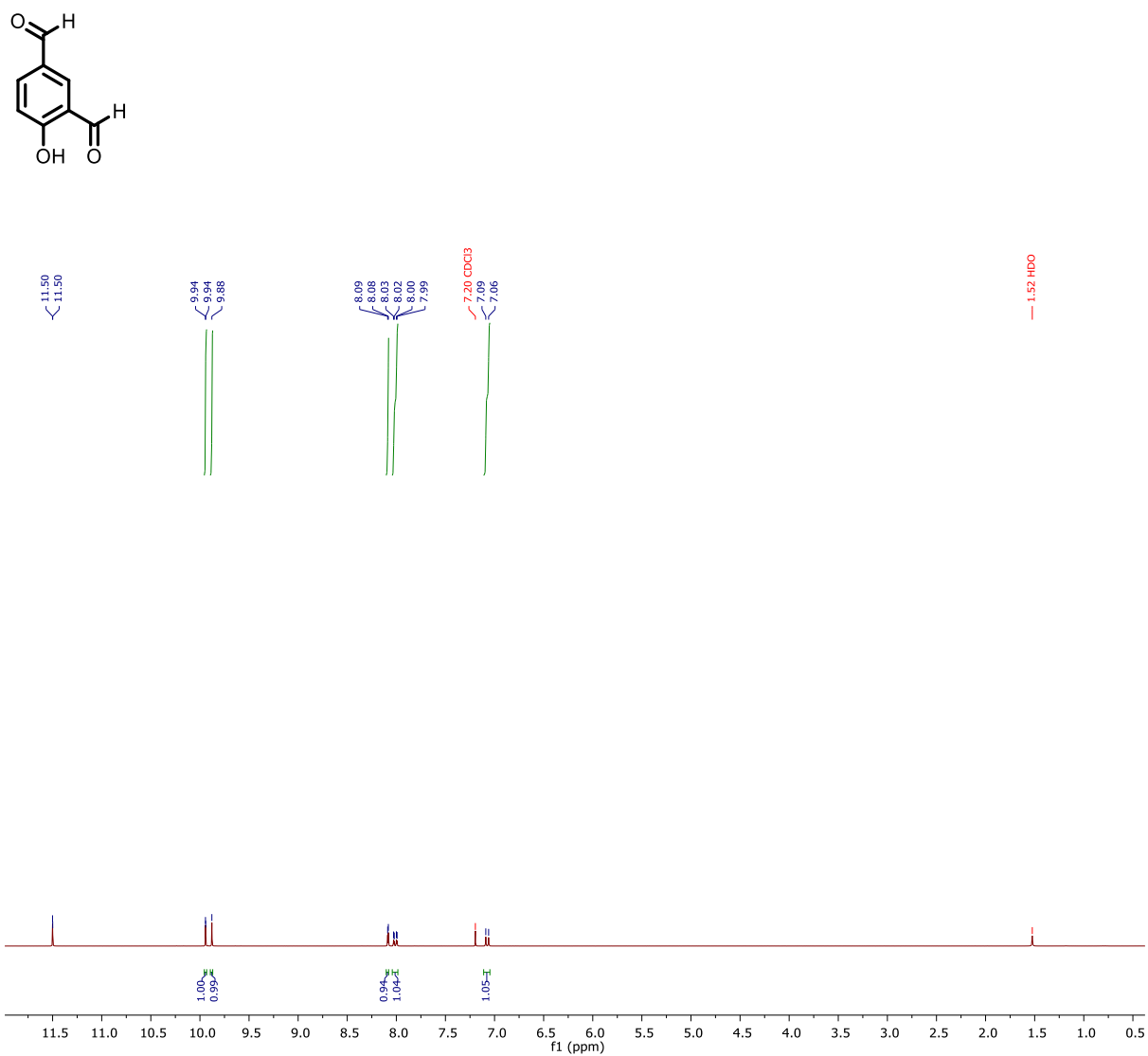
2-(3-(1*H*-benzo[d]imidazol-2-yl)-2-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)benzylidene)malononitrile (ESIPT-CN)- (500 MHz, DMSO-*d*₆)



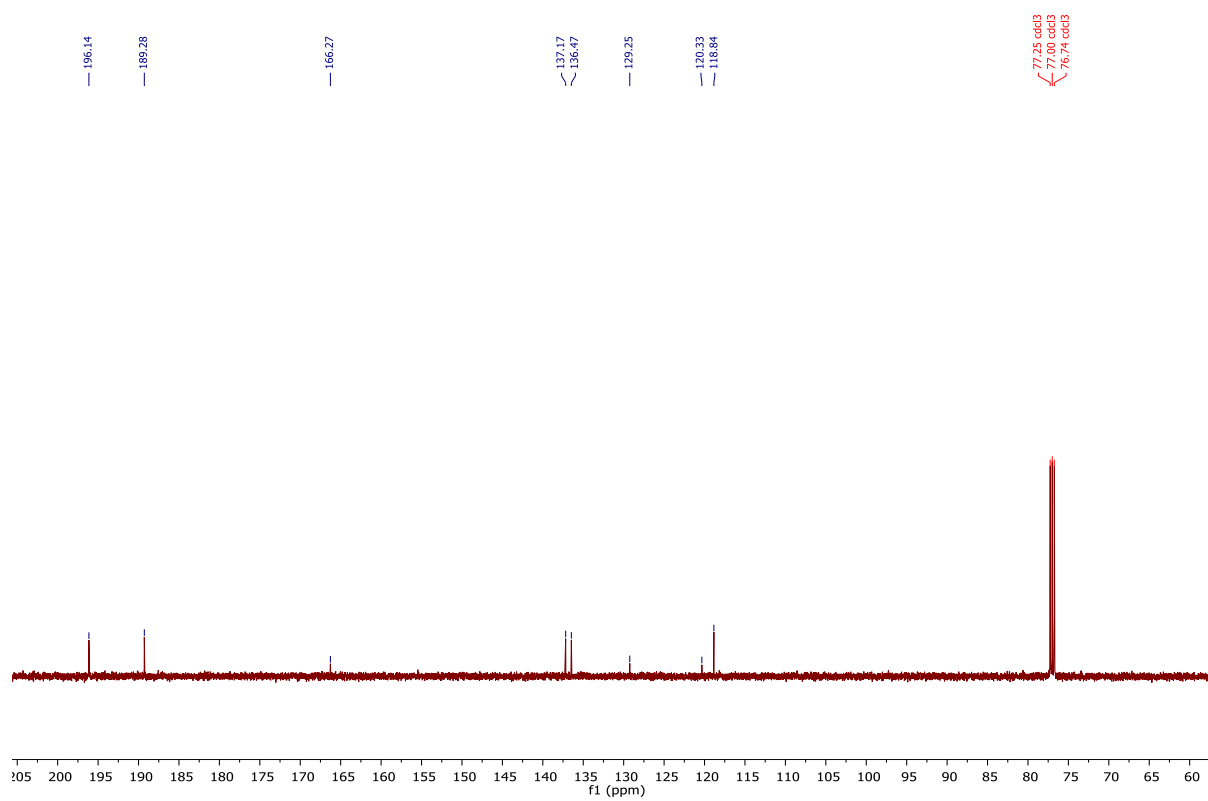
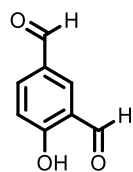
2-(3-(1*H*-benzo[d]imidazol-2-yl)-2-hydroxybenzylidene)malononitrile (ESIPT-CN)- (126 MHz, DMSO-*d*₆)



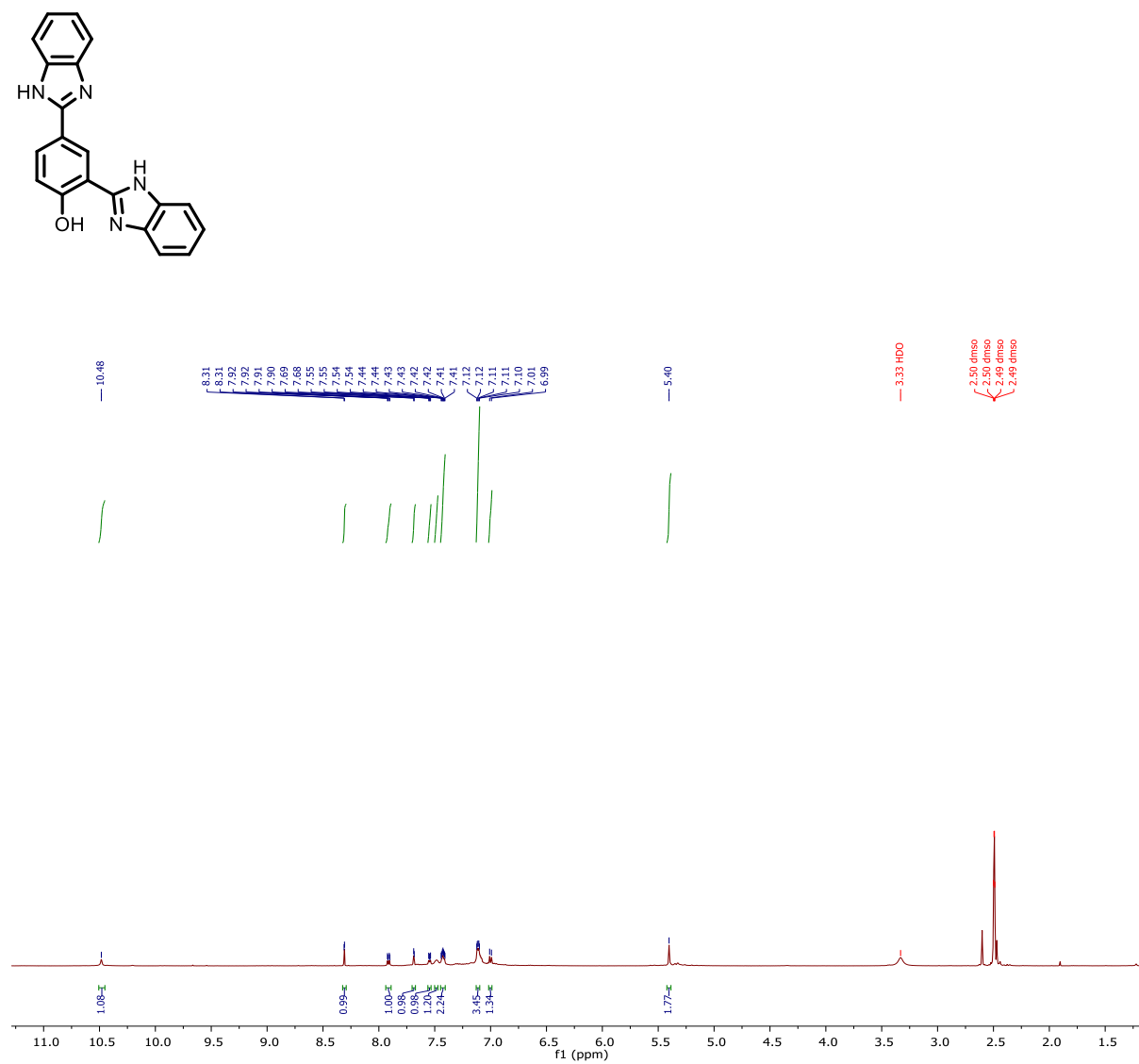
4-hydroxyisophthalaldehyde (4.8)- (300 MHz, CDCl₃)



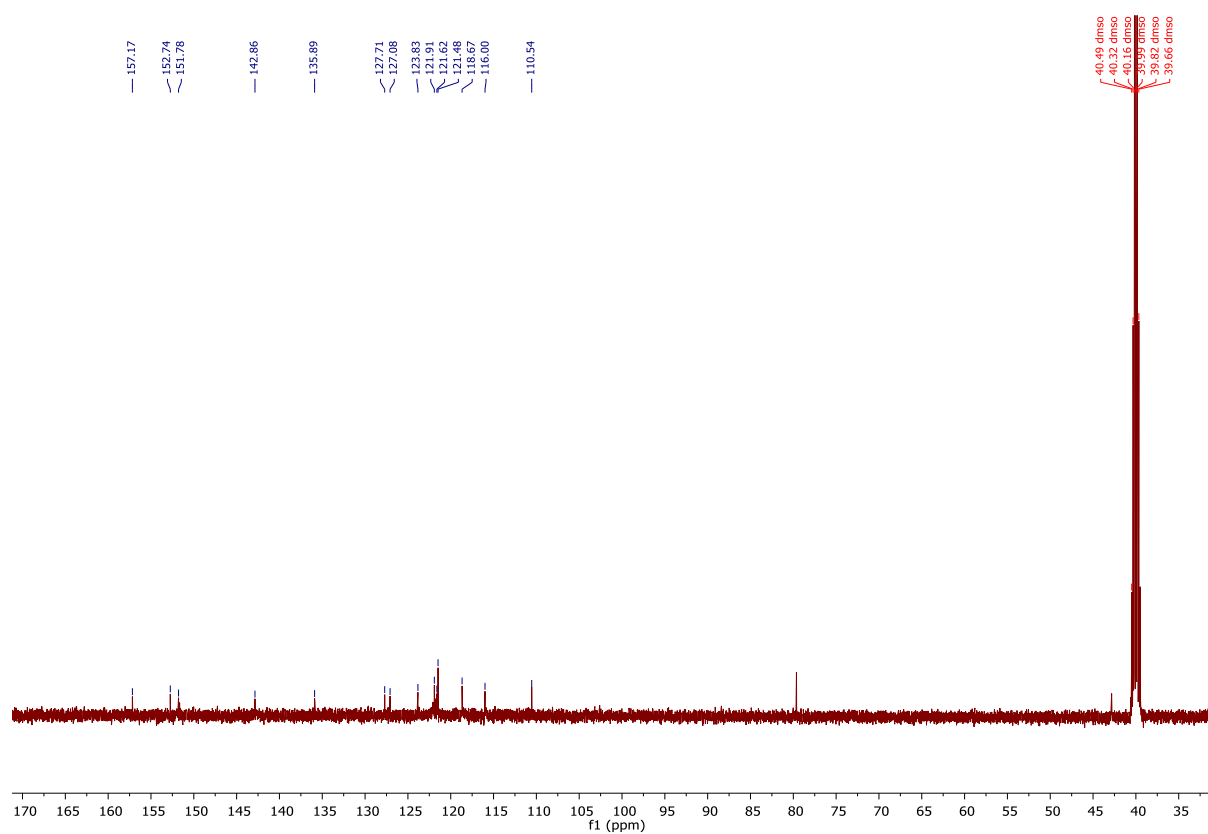
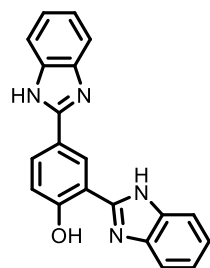
4-hydroxyisophthalaldehyde (4.8)- (126 MHz, CDCl₃)



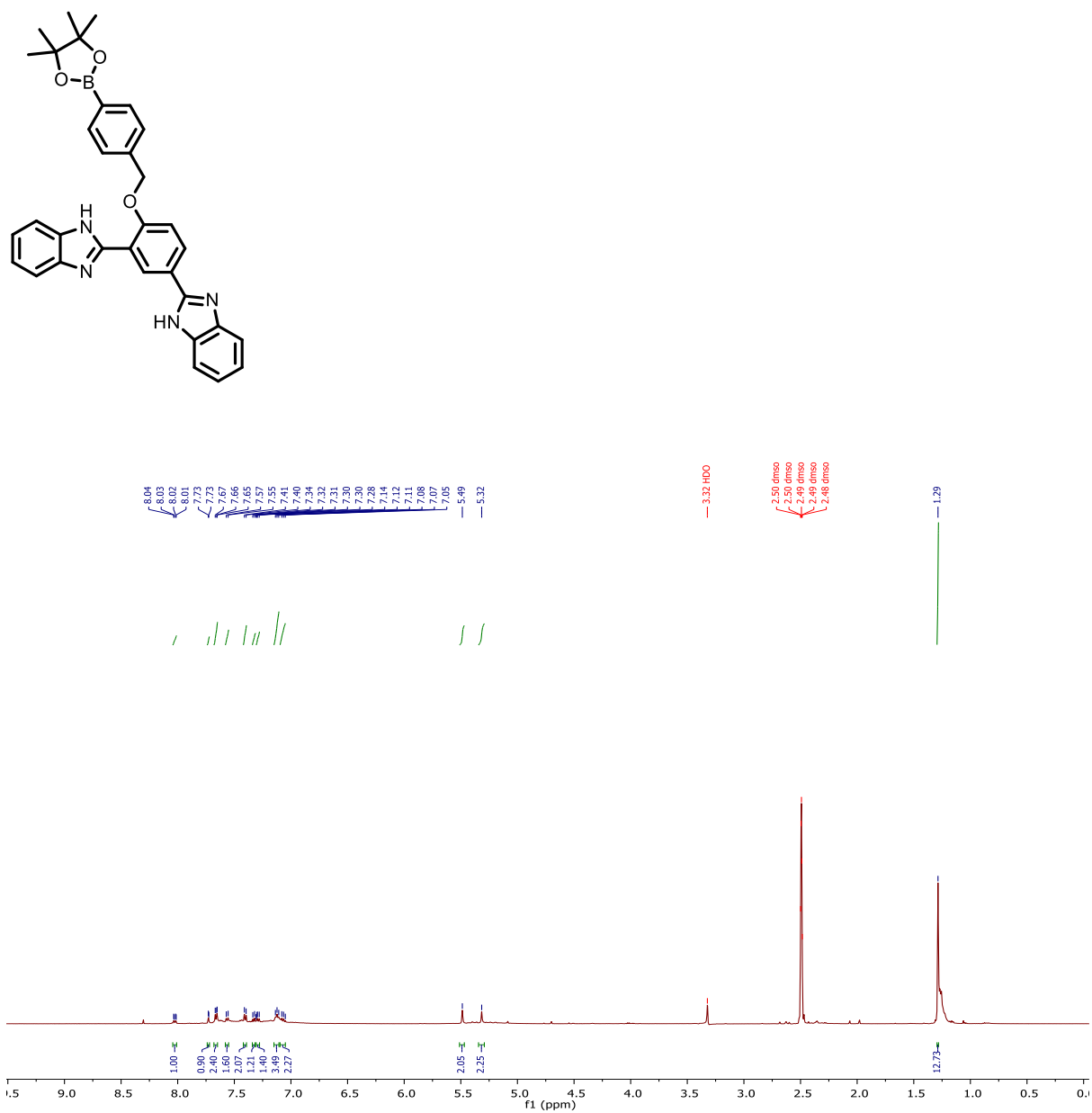
2,4-bis(1H-benzo[d]imidazol-2-yl)phenol (4.10c) -(500 MHz, DMSO-*d*₆)



2,4-bis(1H-benzo[d]imidazol-2-yl)phenol (4.10c)- (126 MHz, DMSO-*d*₆)



2,2'-(4-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-1,3 phenylene)bis(1H-benzo[d]imidazole) (ESIPT-Di)–(500 MHz, DMSO-*d*₆)



2,2'-(4-((4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)benzyl)oxy)-1,3 phenylene)bis(1H-benzo[d]imidazole) (ESIPT-Di) - (126 MHz, DMSO-*d*₆)

