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Supplementary Information

1-(4-Nitrophenyl)-1*H*-1,2,3-triazole-4-carbaldehyde: Scalable synthesis and its use in the preparation of 1-alkyl-4-formyl-1,2,3-triazoles

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NMR spectra

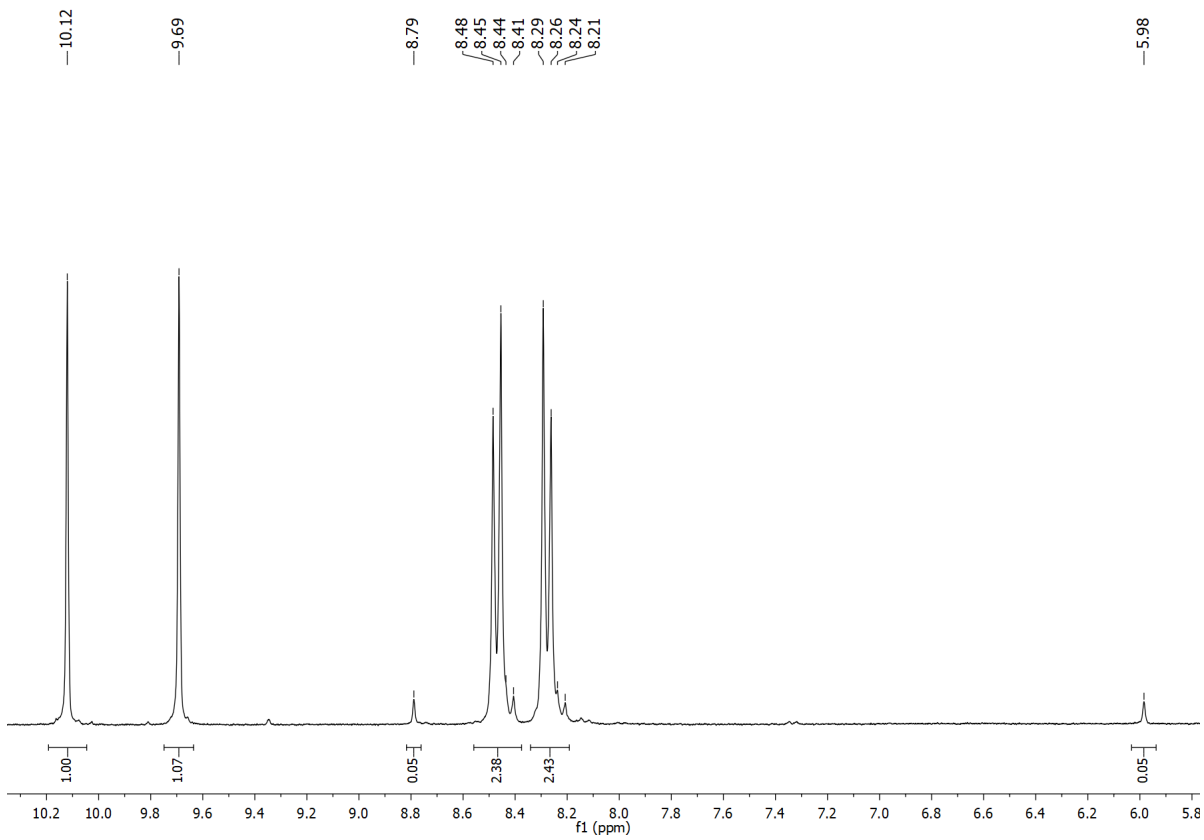
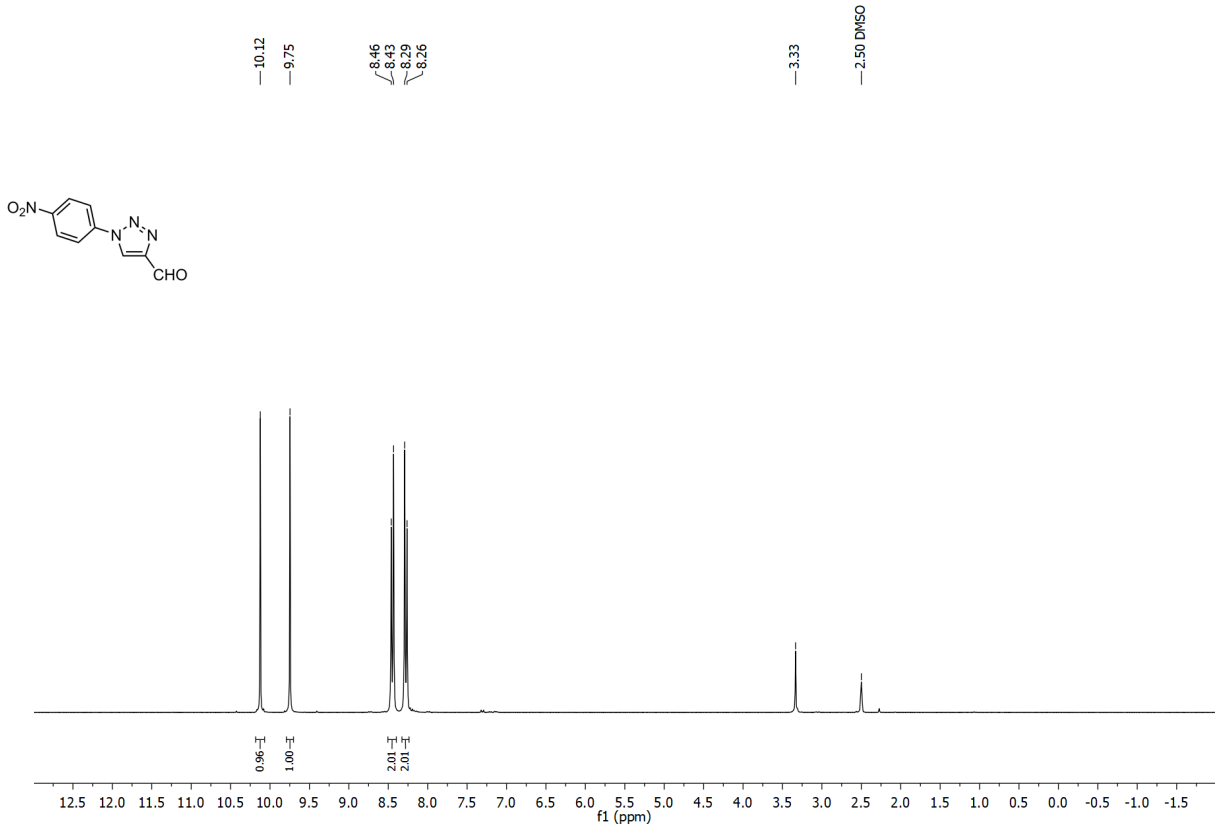


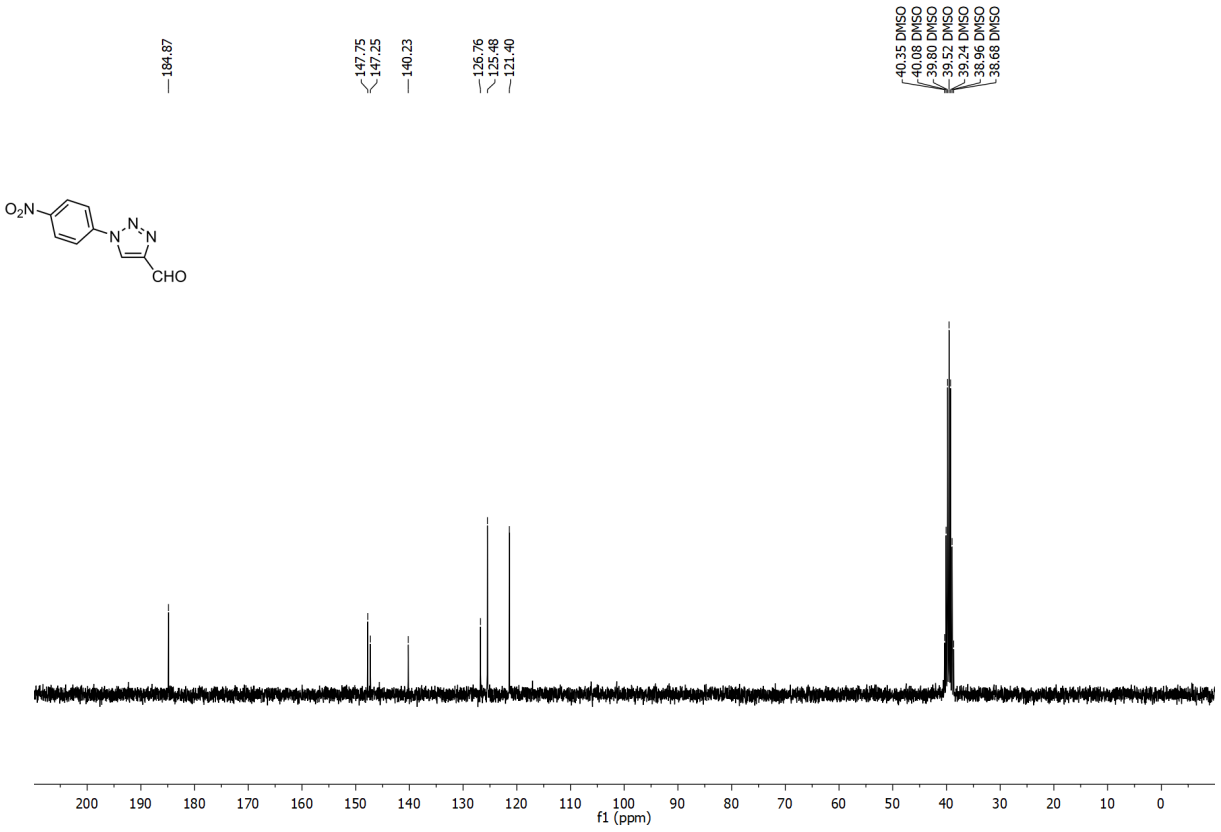
Figure S1. ^{1}H NMR spectra in DMSO-d_6 (300 MHz) of 1-(4-nitrophenyl)-1*H*-1,2,3-triazole-4-carbaldehyde **1a** (collected *via* filtration) before drying under vacuo. A small amount of what is expected to be the hydrate derived from the aldehyde could be detected: ^{1}H NMR (300 MHz, DMSO-d_6) δ 8.79 (s, 1H), 8.42 (d, J = 8.8 Hz, 2H), 8.22 (d, J = 8.9 Hz, 2H), 5.98 (s, 1H).

NMR spectra of isolated compounds

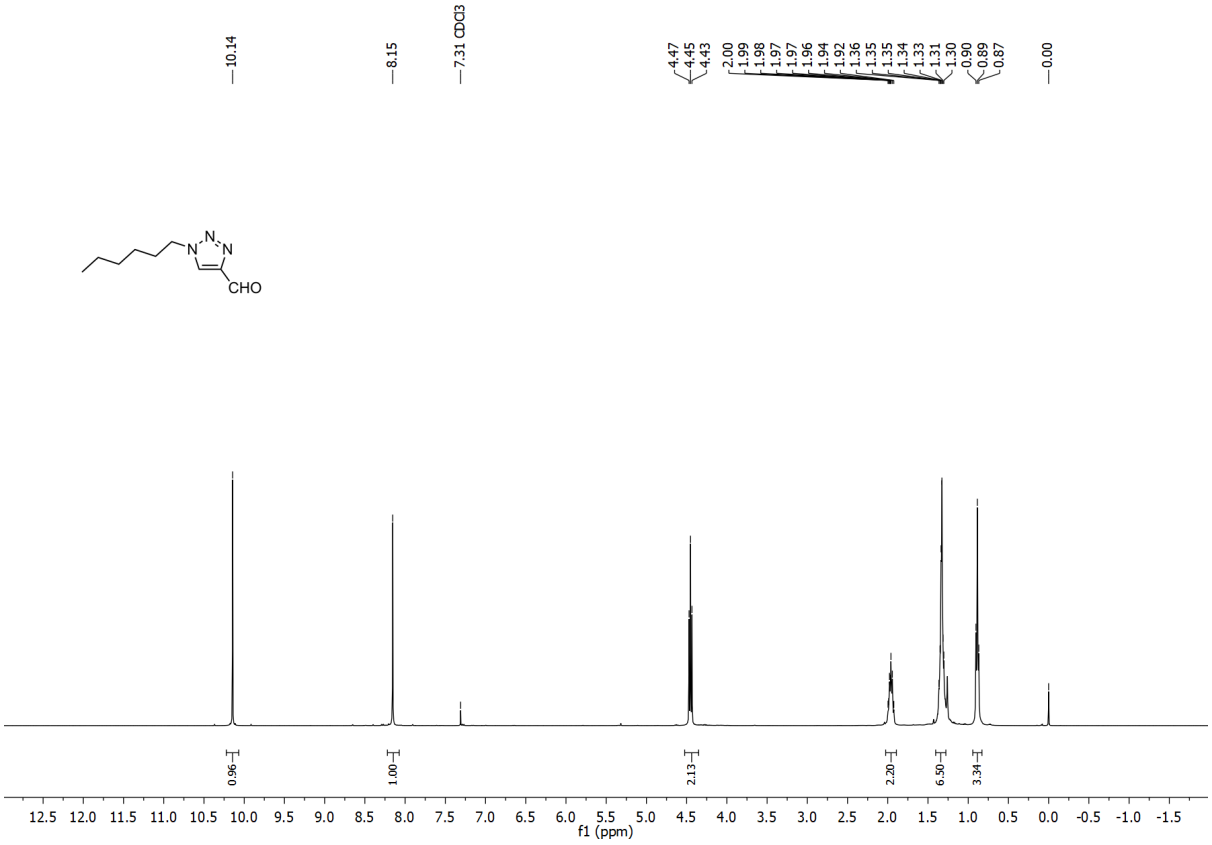
1a, ^{1}H, 300 MHz, DMSO-d_6



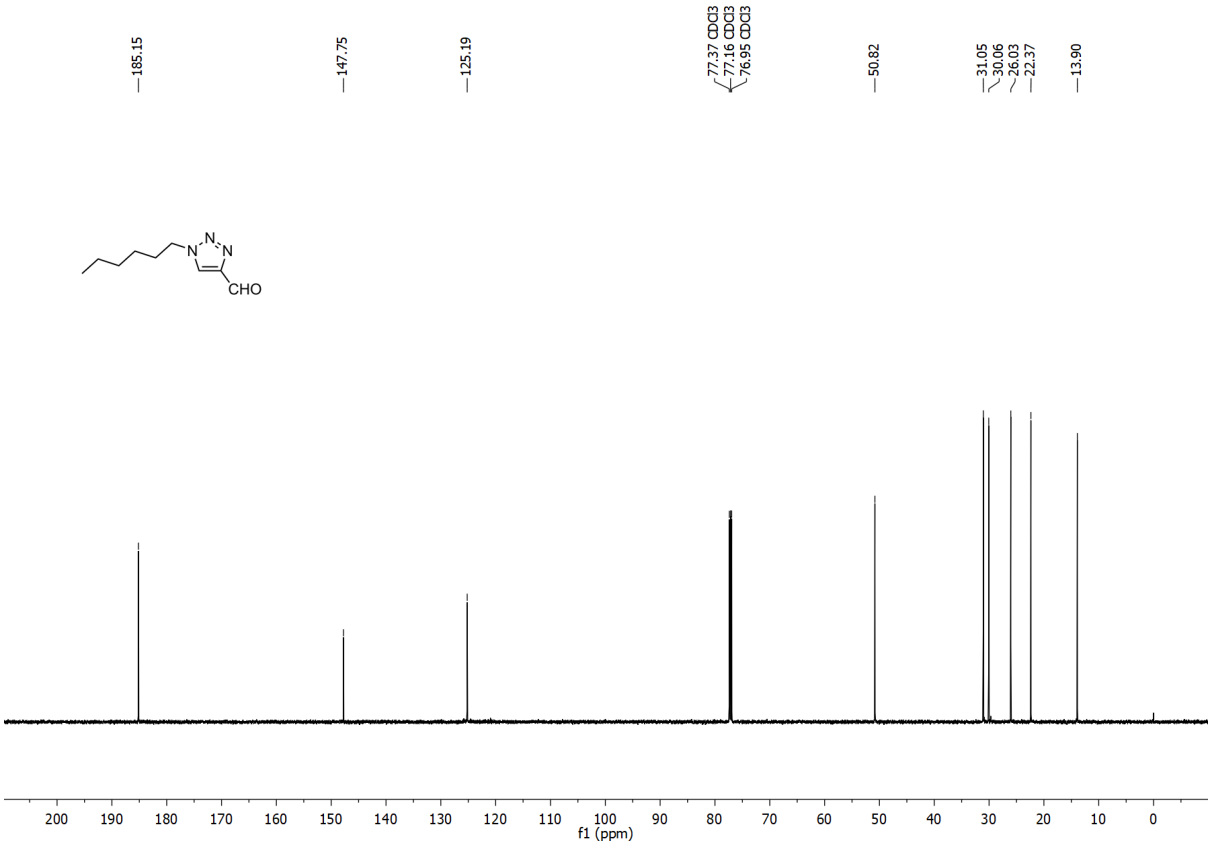
1a, ^{13}C{^{1}H}, 75 MHz, DMSO



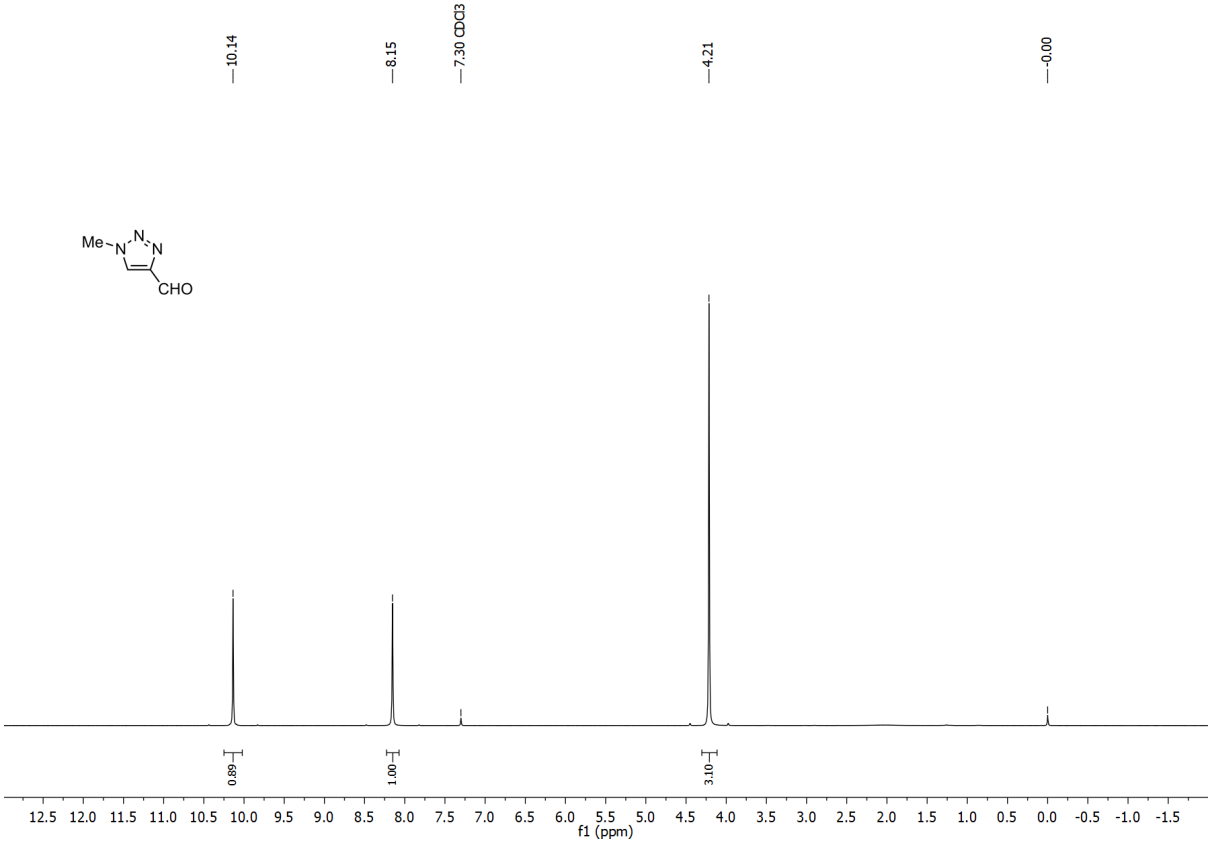
7a, ^{1}H, 400 MHz, $CDCl_3$



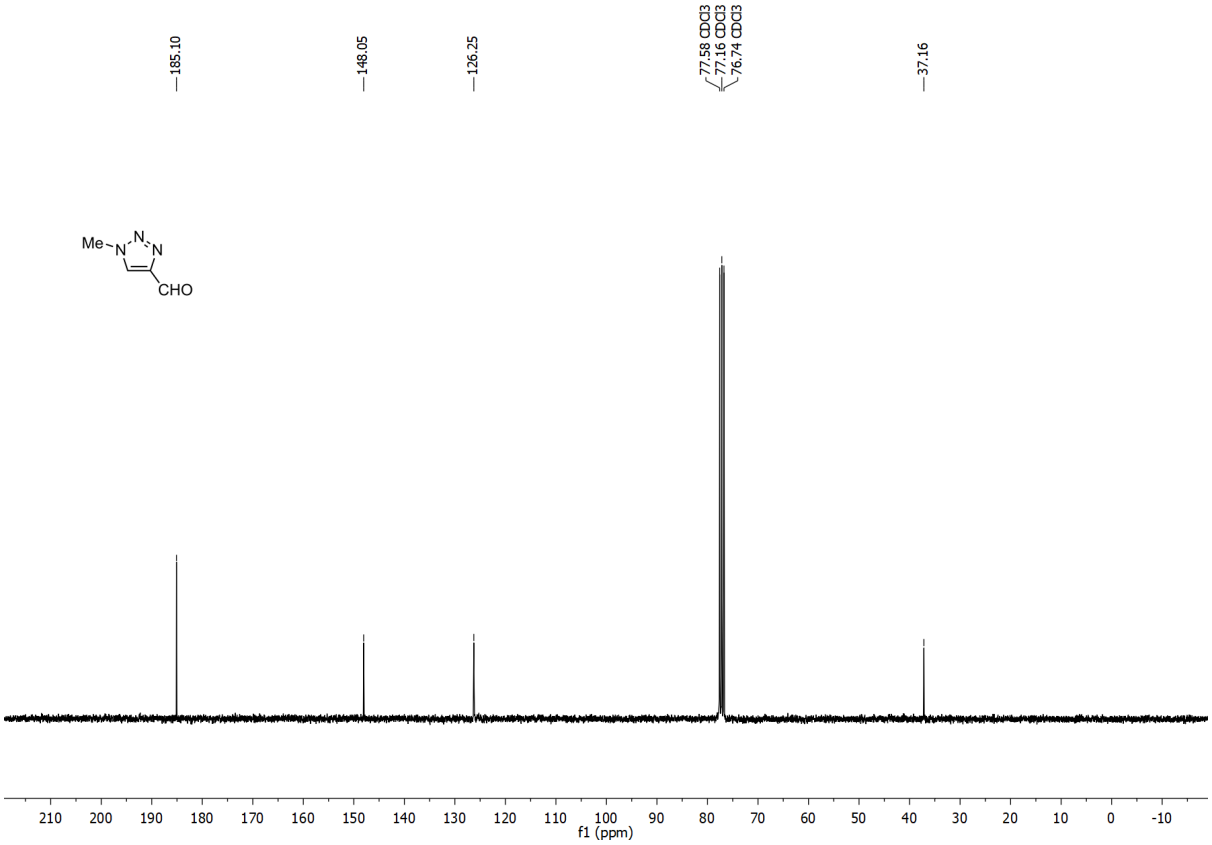
7a, ^{13}C{^{1}H}, 151 MHz, $CDCl_3$



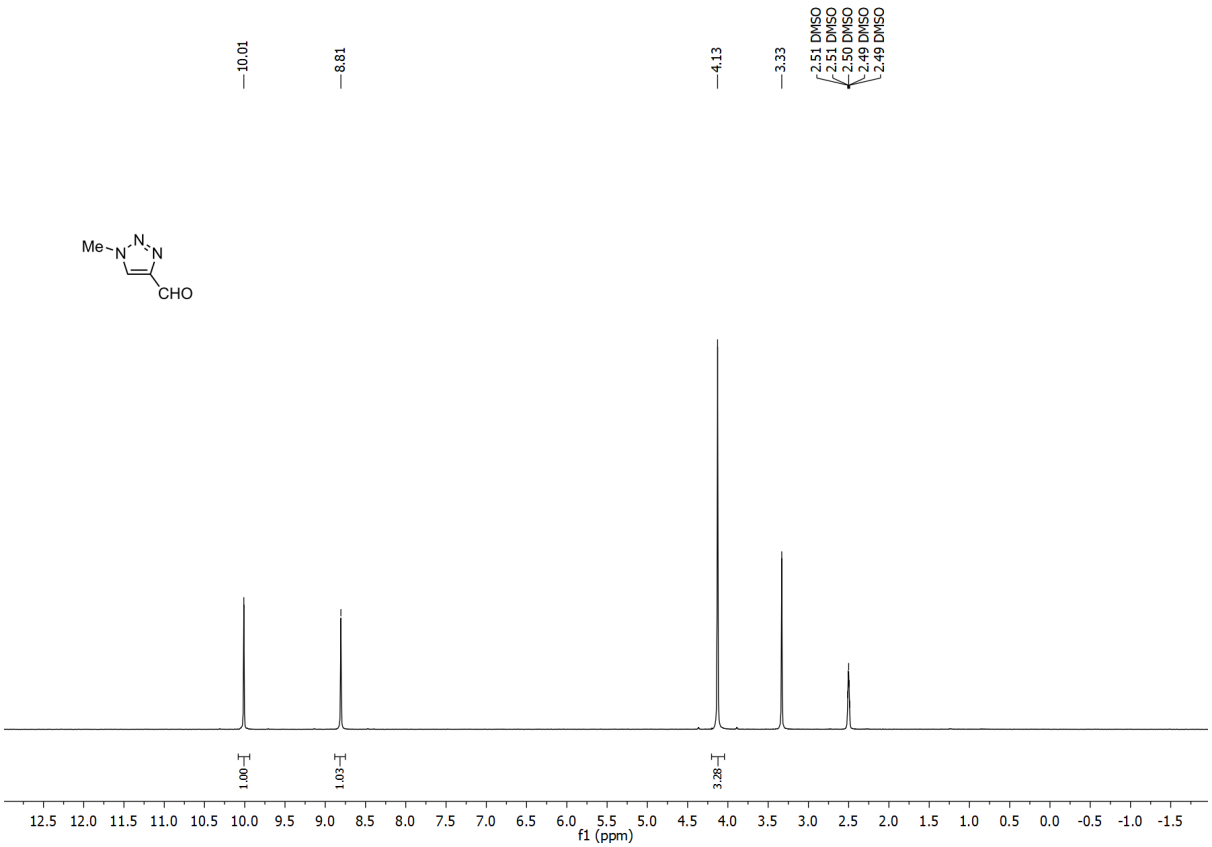
7b, ^{1}H, 300 MHz, $CDCl_3$



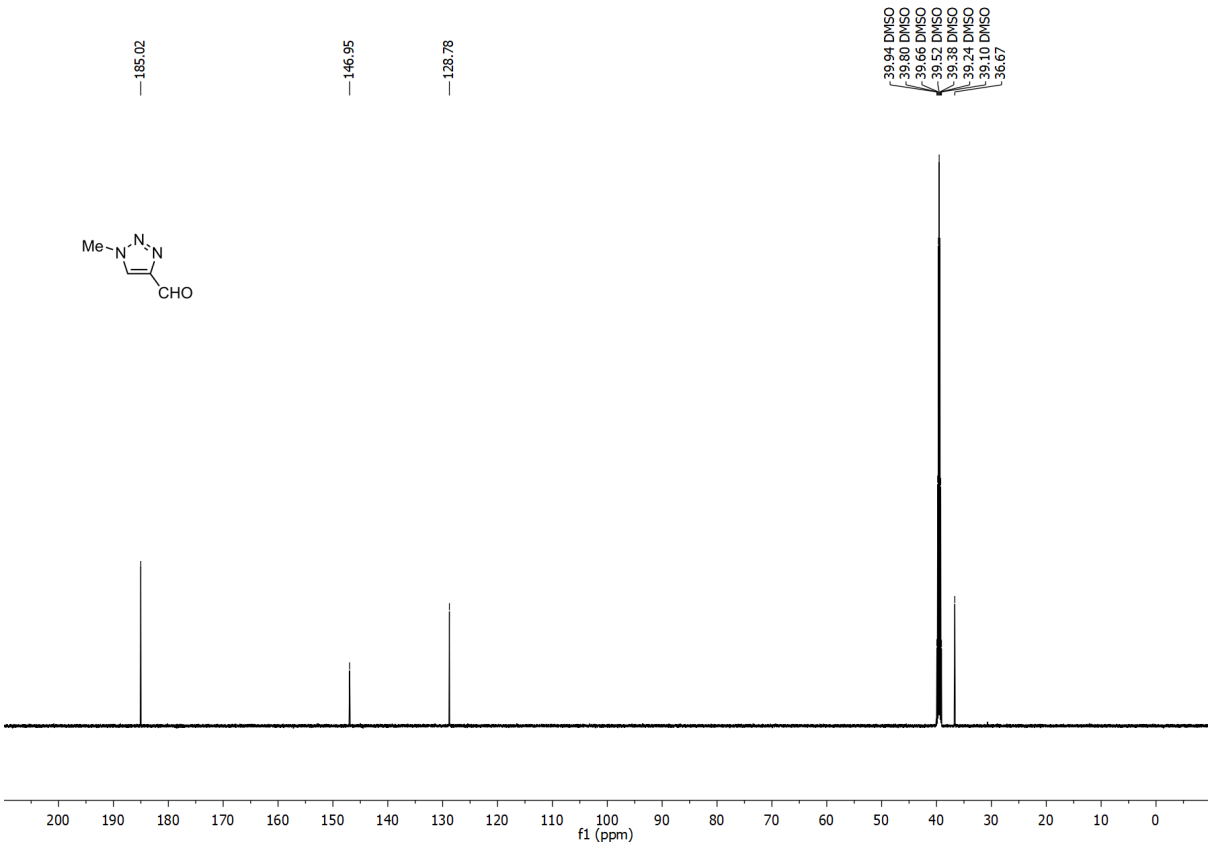
7b, $^{13}C\{^{1}H\}$, 75 MHz, $CDCl_3$



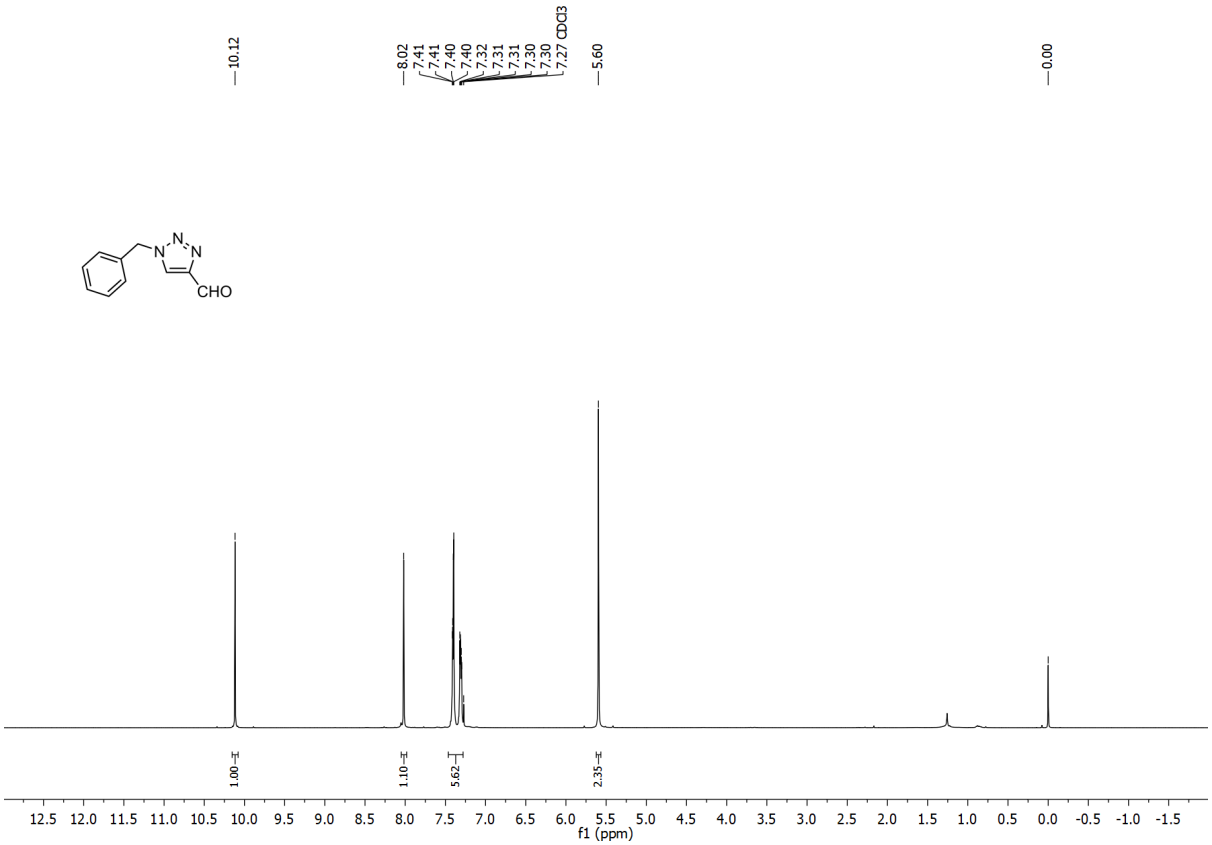
7b, ^{1}H, 300 MHz, DMSO-d_6



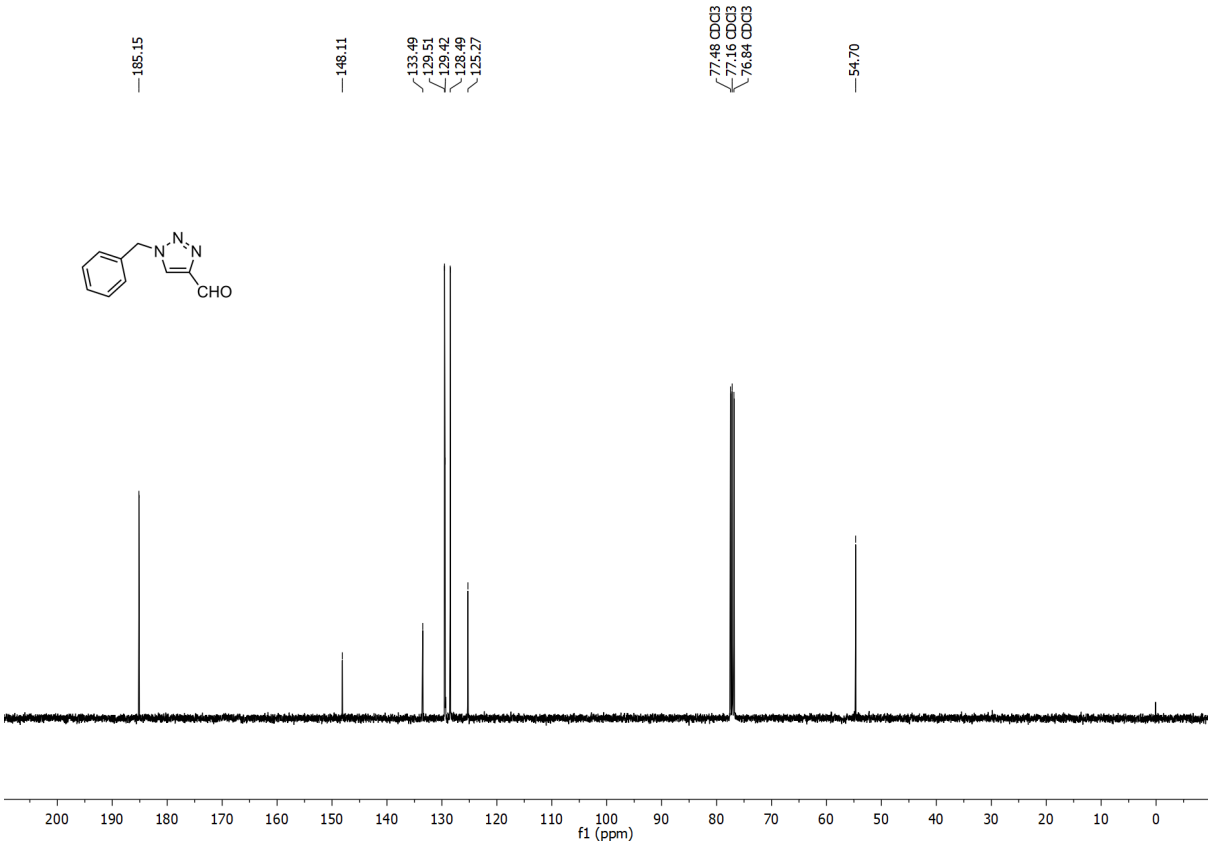
7b, $^{13}C\{^{1}H\}$, 151 MHz, DMSO



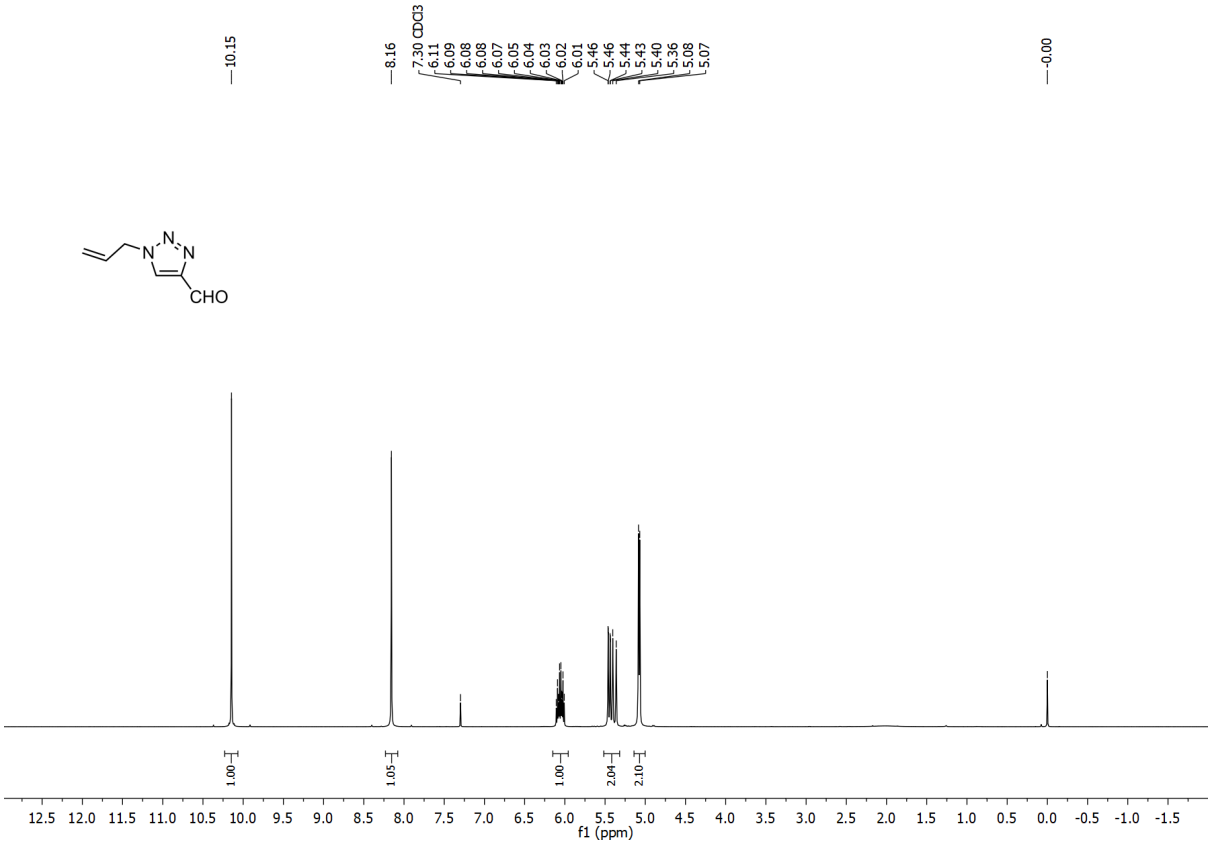
7c, ^{1}H, 400 MHz, $CDCl_3$



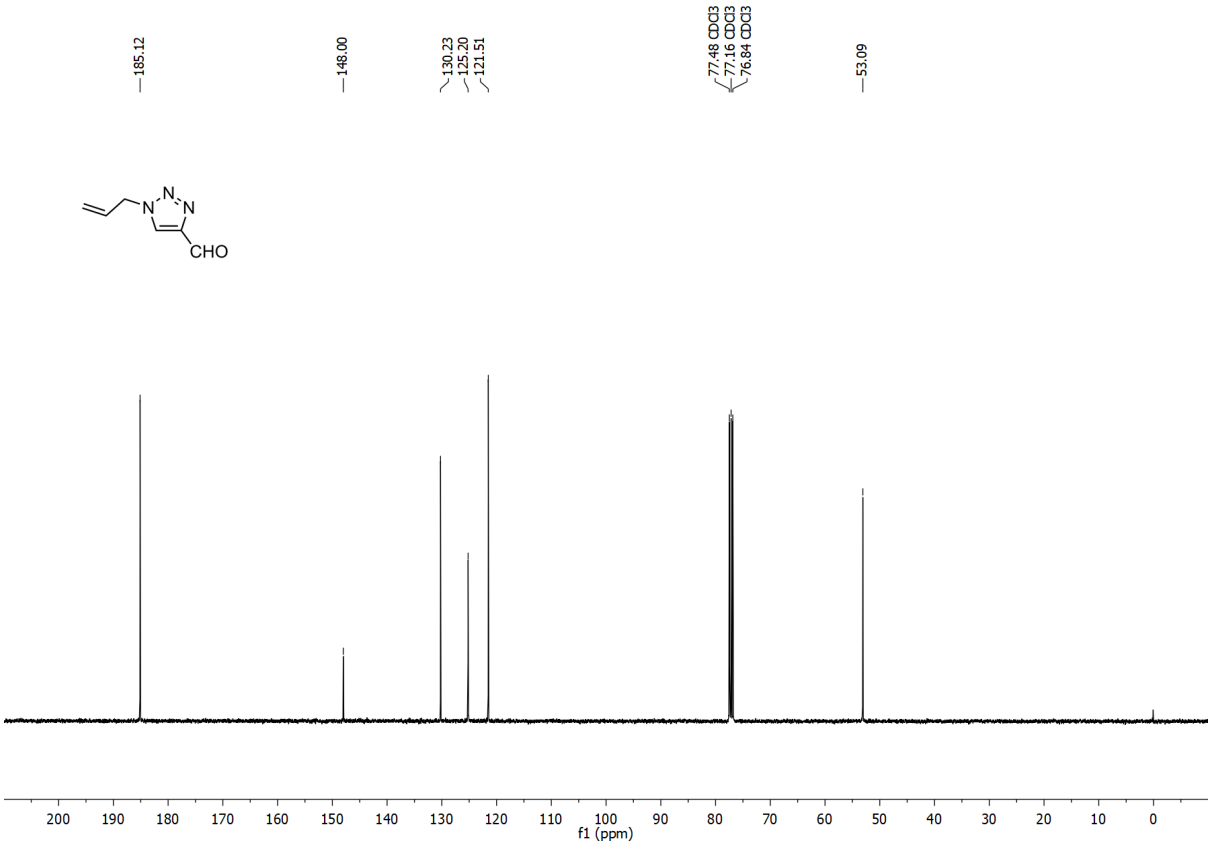
7c, $^{13}C\{^{1}H\}$, 101 MHz, $CDCl_3$



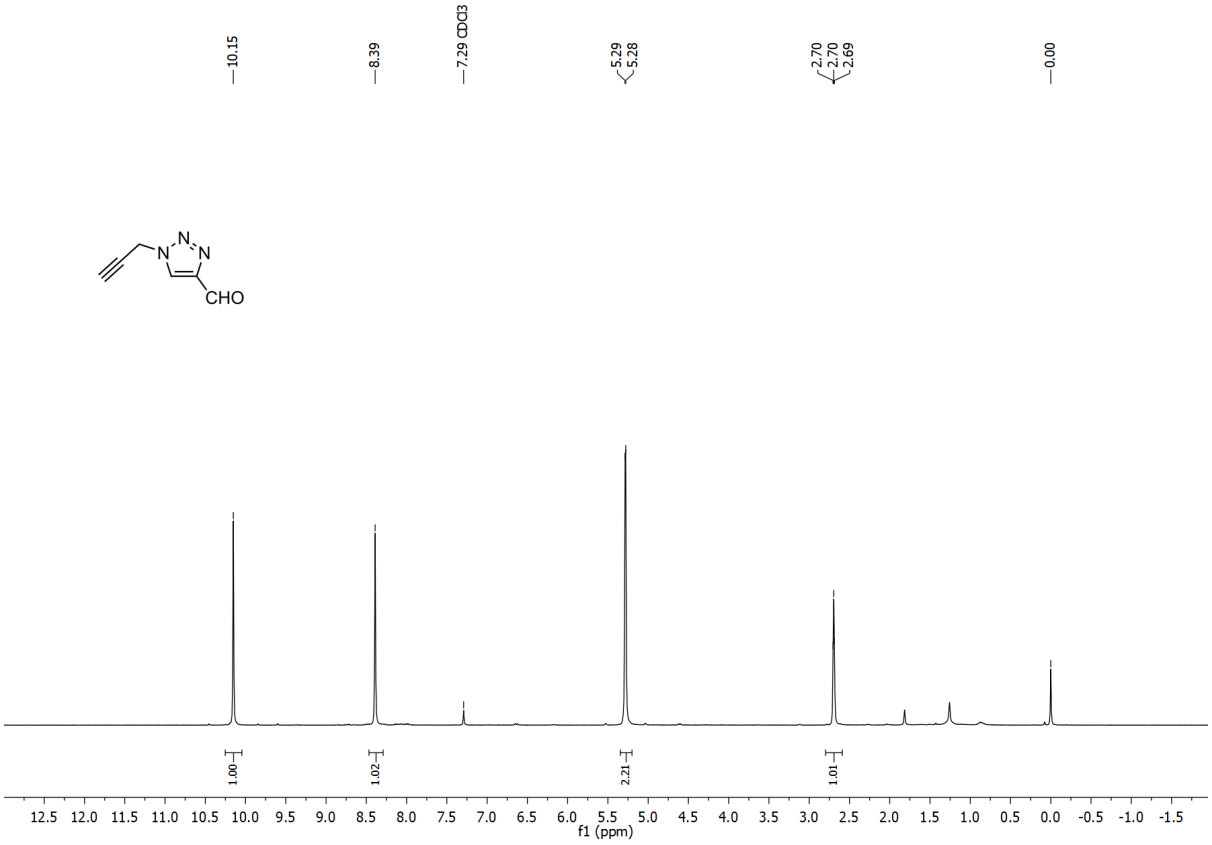
7d, ^{1}H, 400 MHz, $CDCl_3$



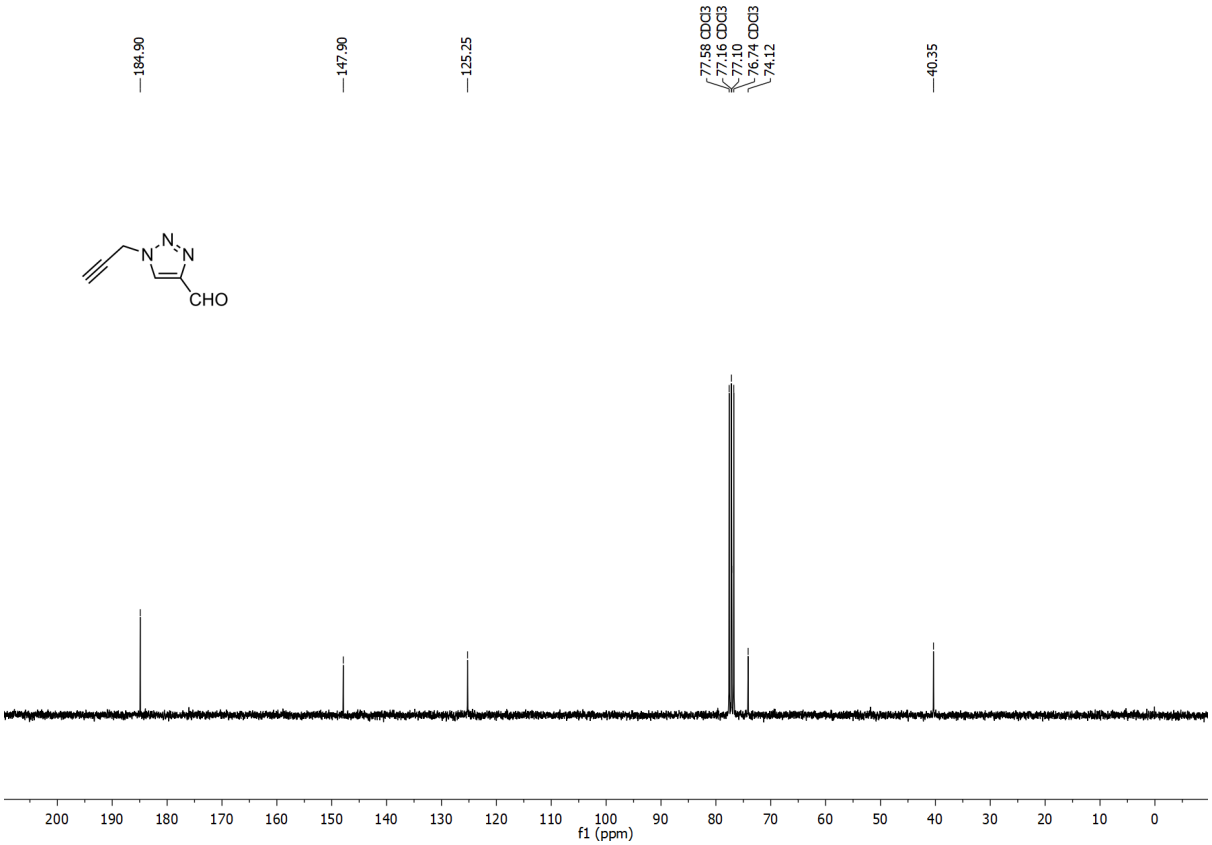
7d, $^{13}C\{^{1}H\}$, 101 MHz, $CDCl_3$



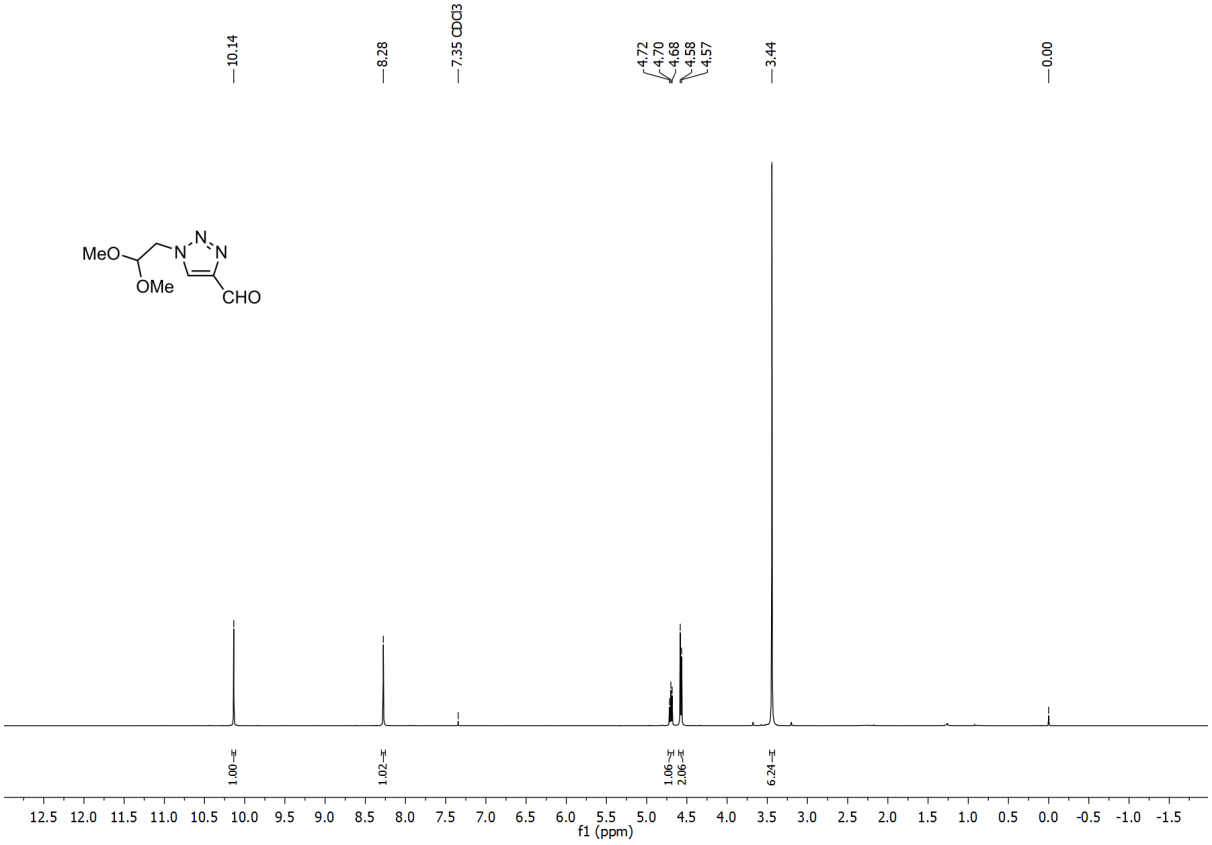
7e, ^{1}H, 400 MHz, $CDCl_3$



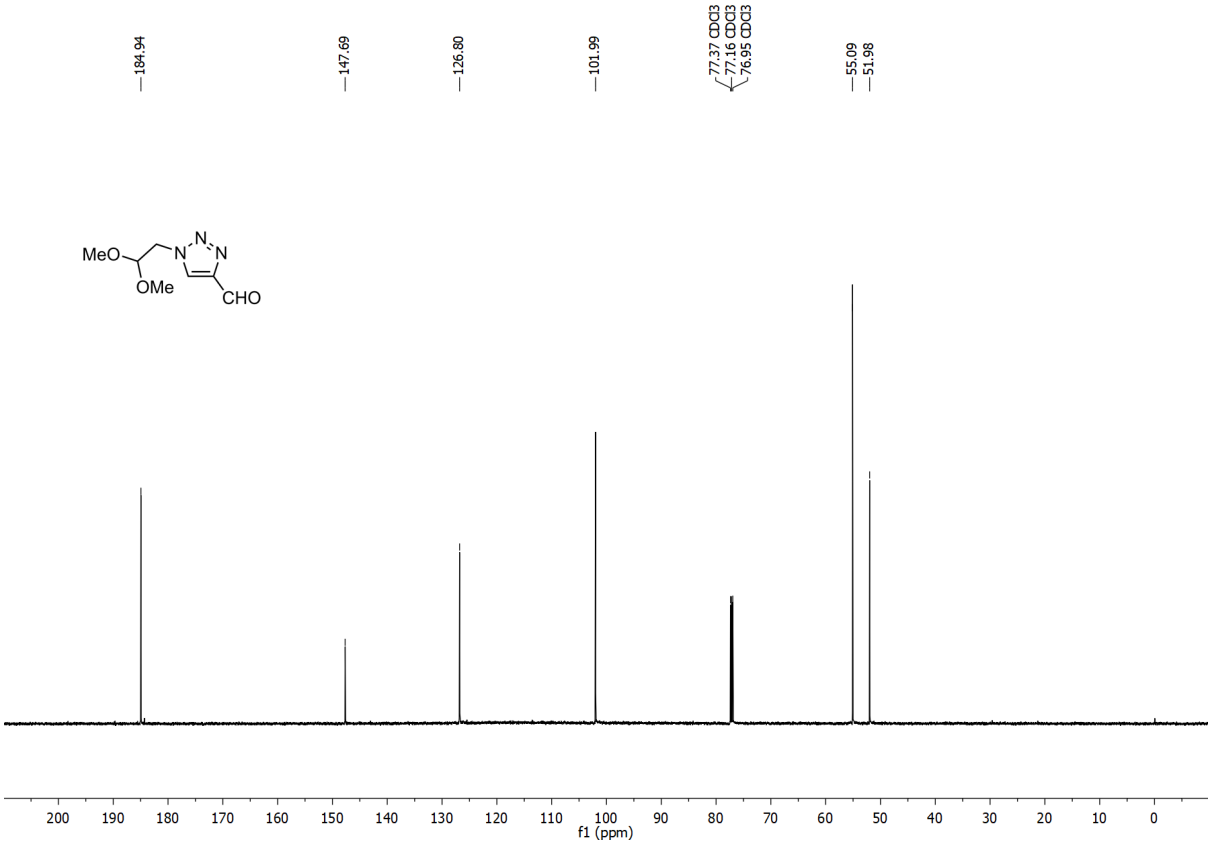
7e, ^{13}C{^{1}H}, 101 MHz, $CDCl_3$



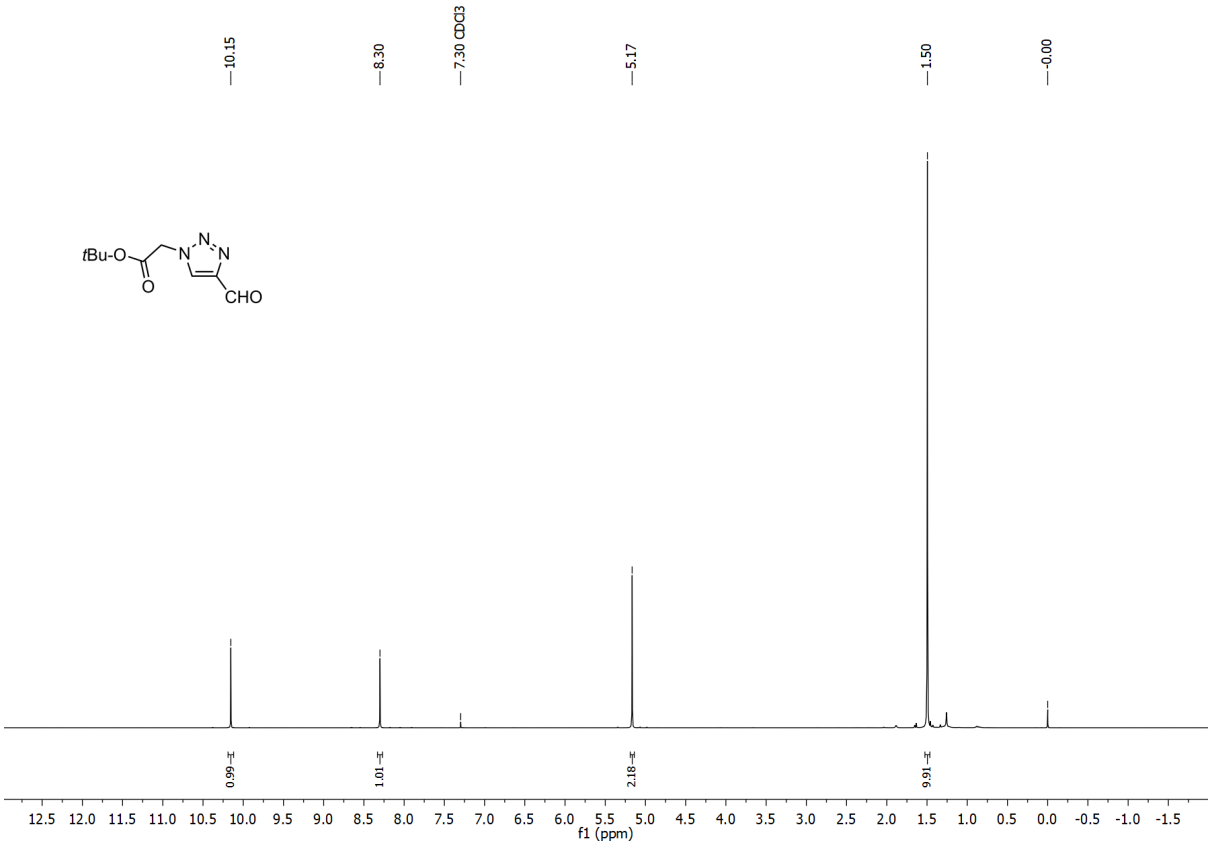
7f, ^{1}H, 300 MHz, $CDCl_3$



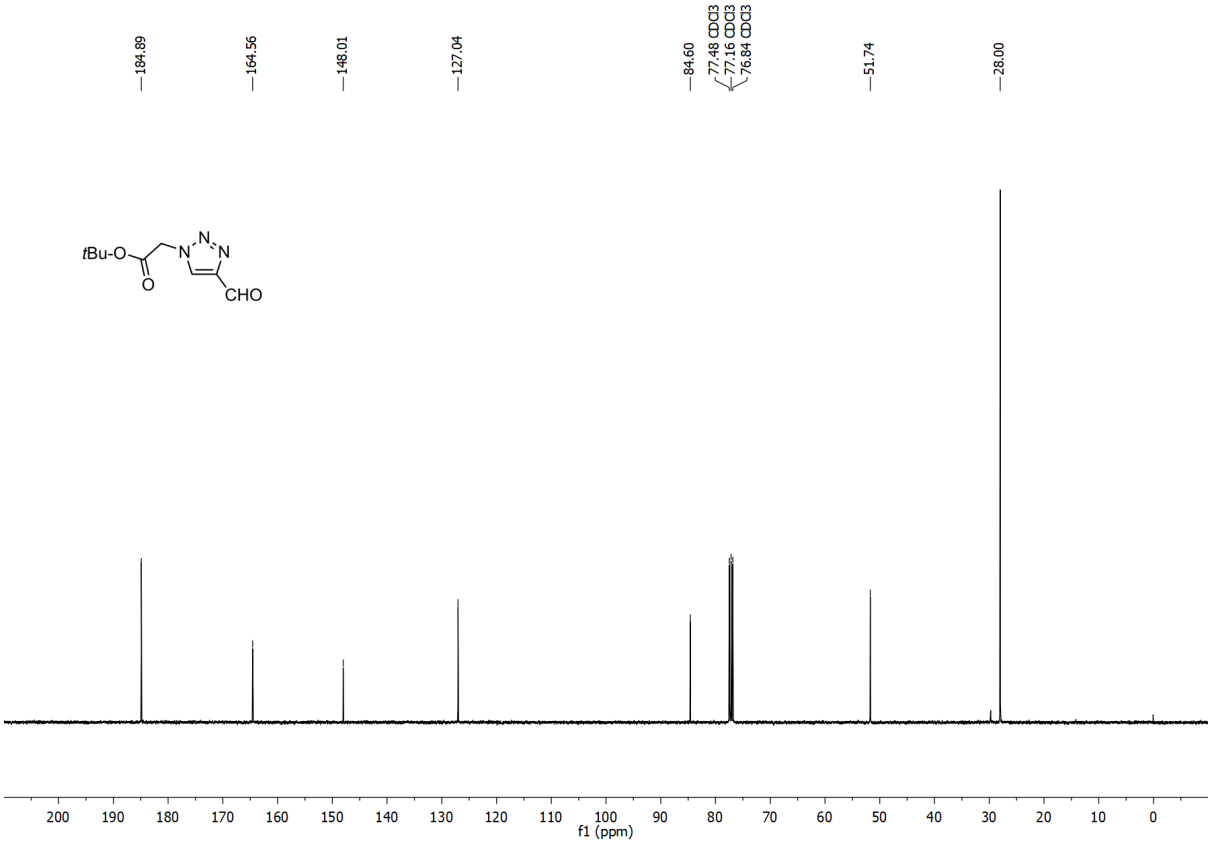
7f, $^{13}C\{^{1}H\}$, 151 MHz, $CDCl_3$



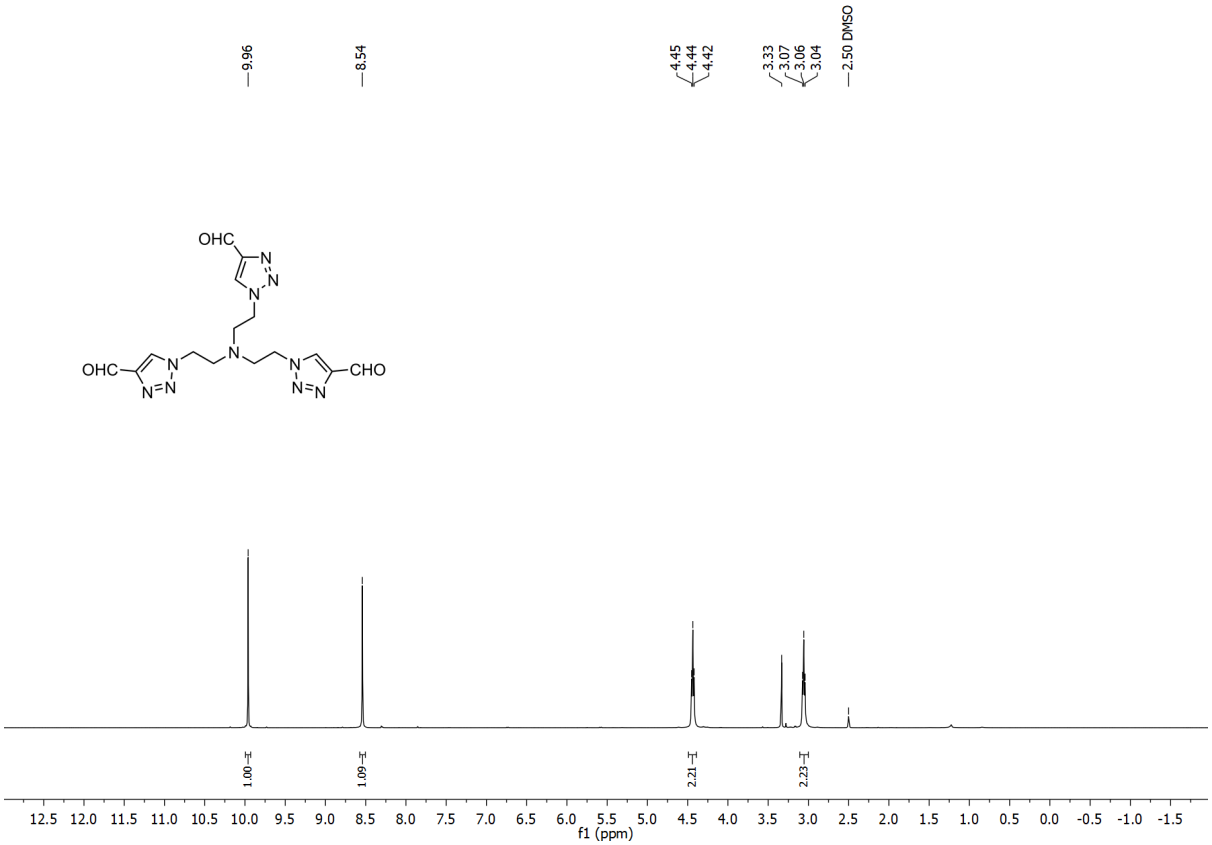
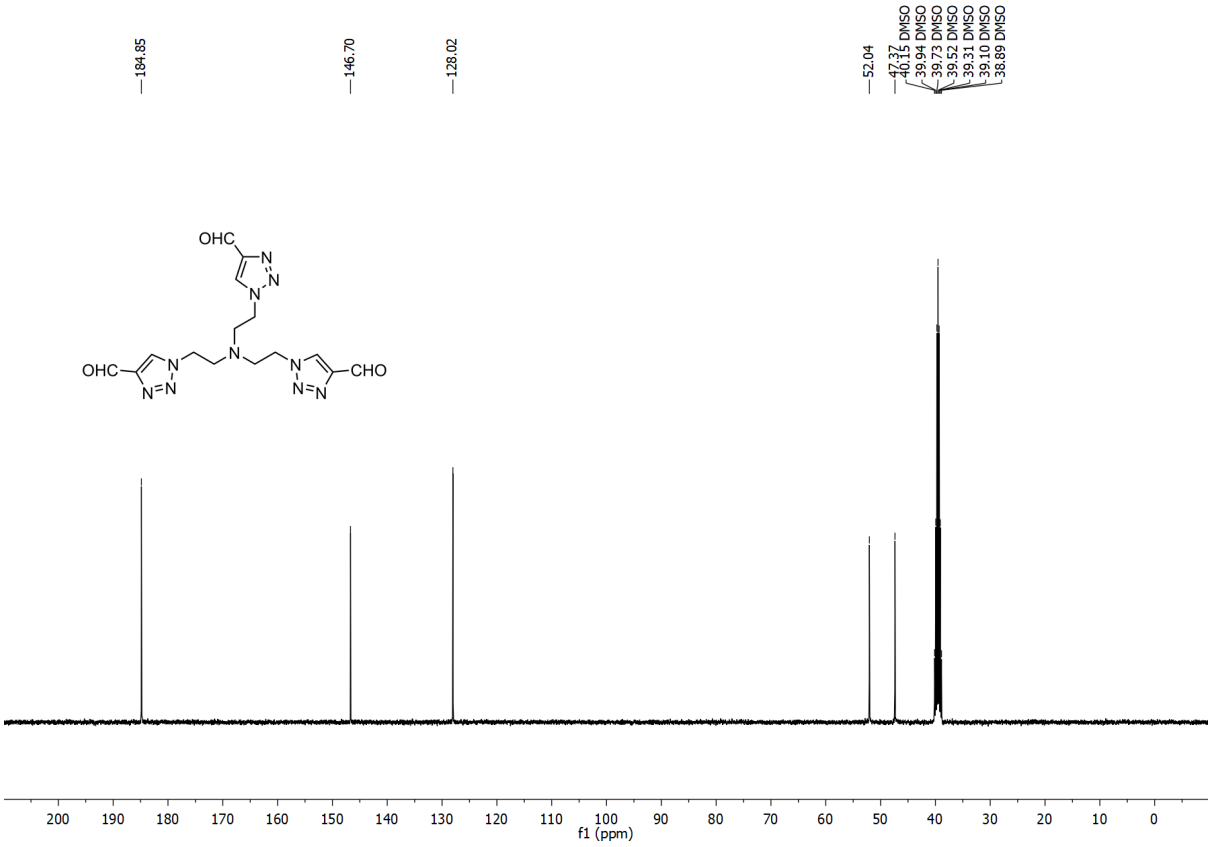
7g, ^{1}H, 400 MHz, $CDCl_3$



7g, $^{13}C\{^{1}H\}$, 101 MHz, $CDCl_3$



7h, ^{1}H, 400 MHz, DMSO-d_6



7h, $^{13}C\{^{1}H\}$, 101 MHz, DMSO