

Exploring the potential of phosphotriazole 5' mRNA cap analogues as efficient translation initiators

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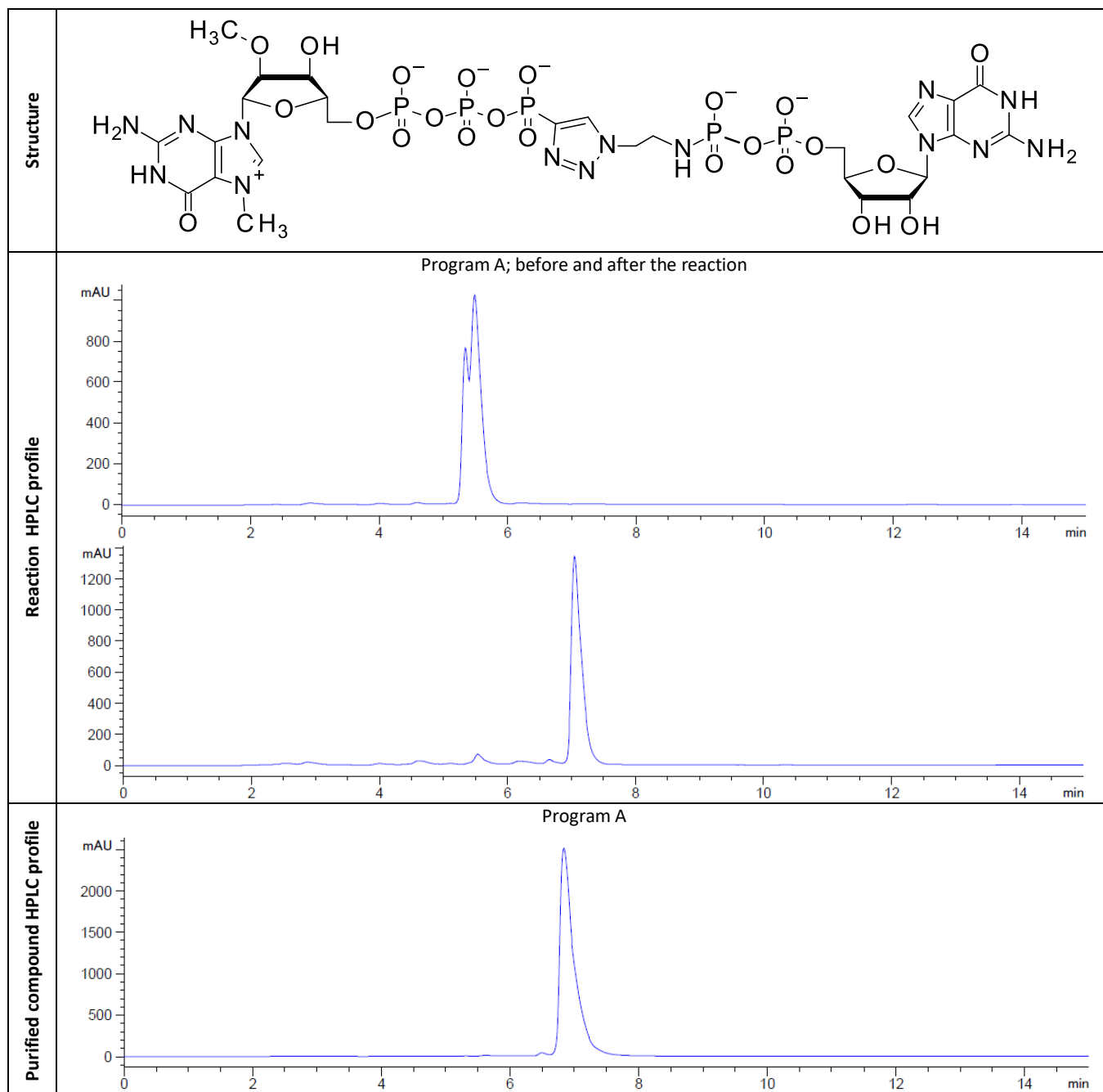
HPLC gradients

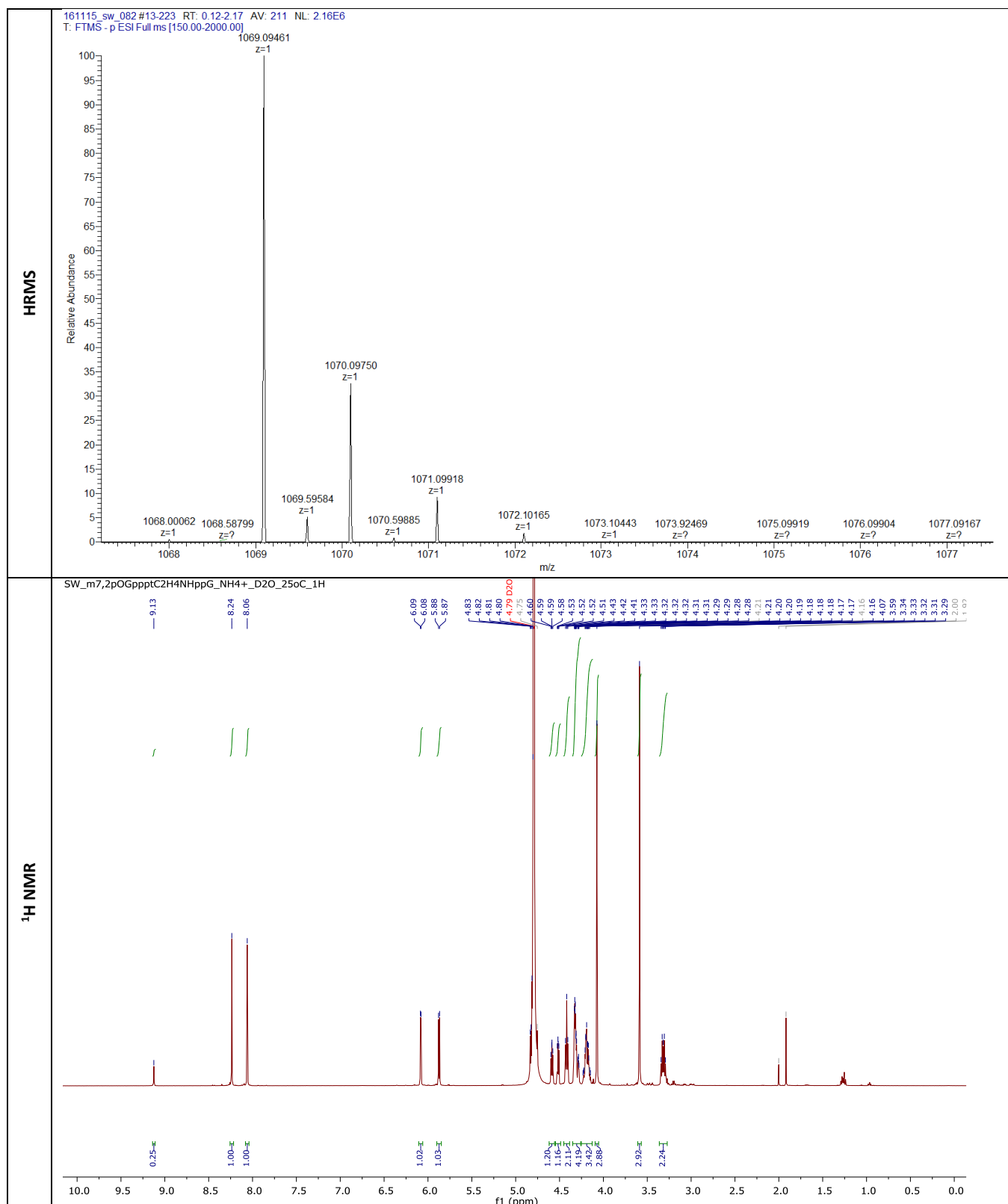
Program A - linear gradient 0–25% of methanol in 0.05 M ammonium acetate buffer (pH 5.9) in 15 min

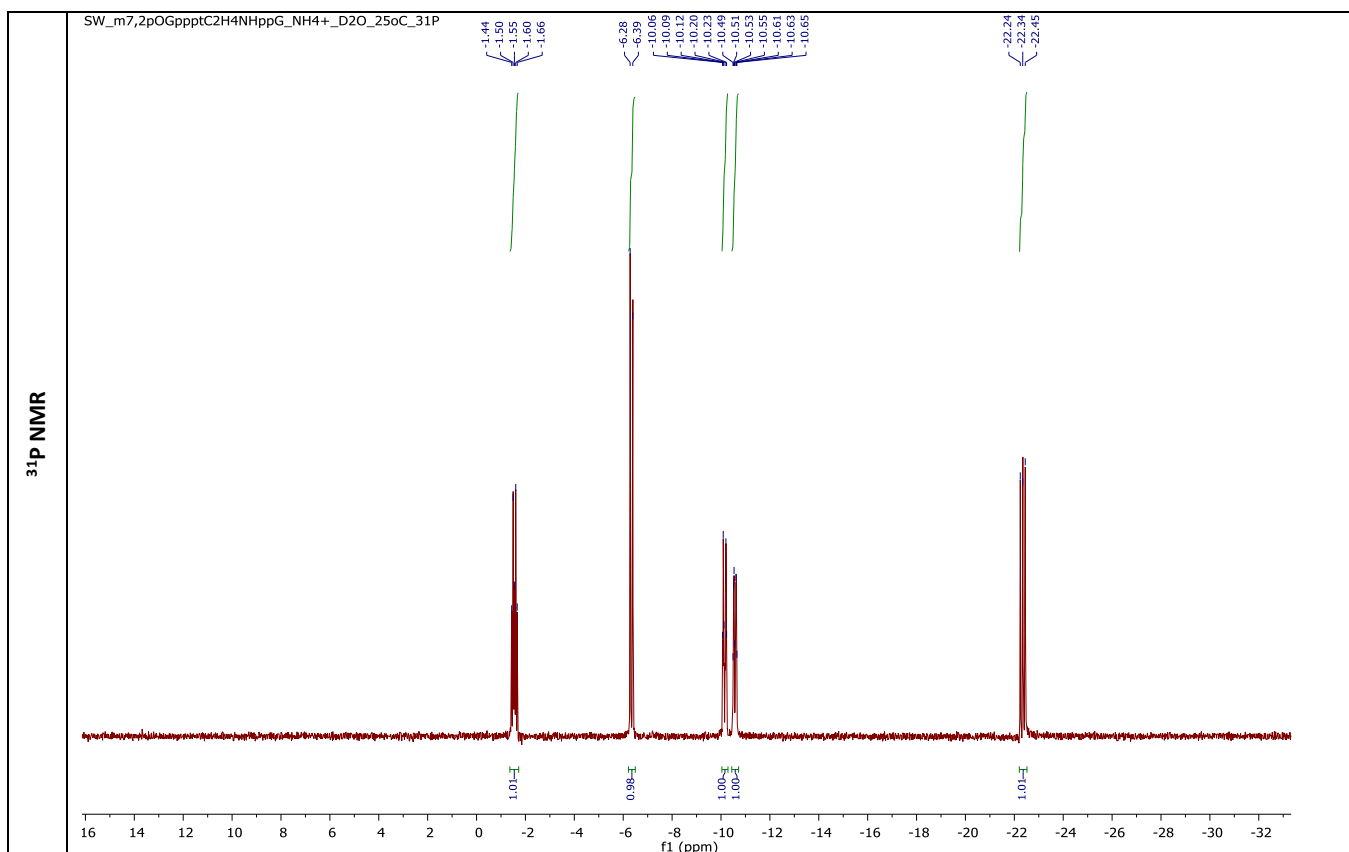
Program B - linear gradient 0–50% of methanol in 0.05 M ammonium acetate buffer (pH 5.9) in 15 min

Program C – linear gradient 0–50% of methanol in 0.05 M ammonium acetate buffer (pH 5.9) in 7.5 min and then isocratic elution (50% of methanol) until 15 min

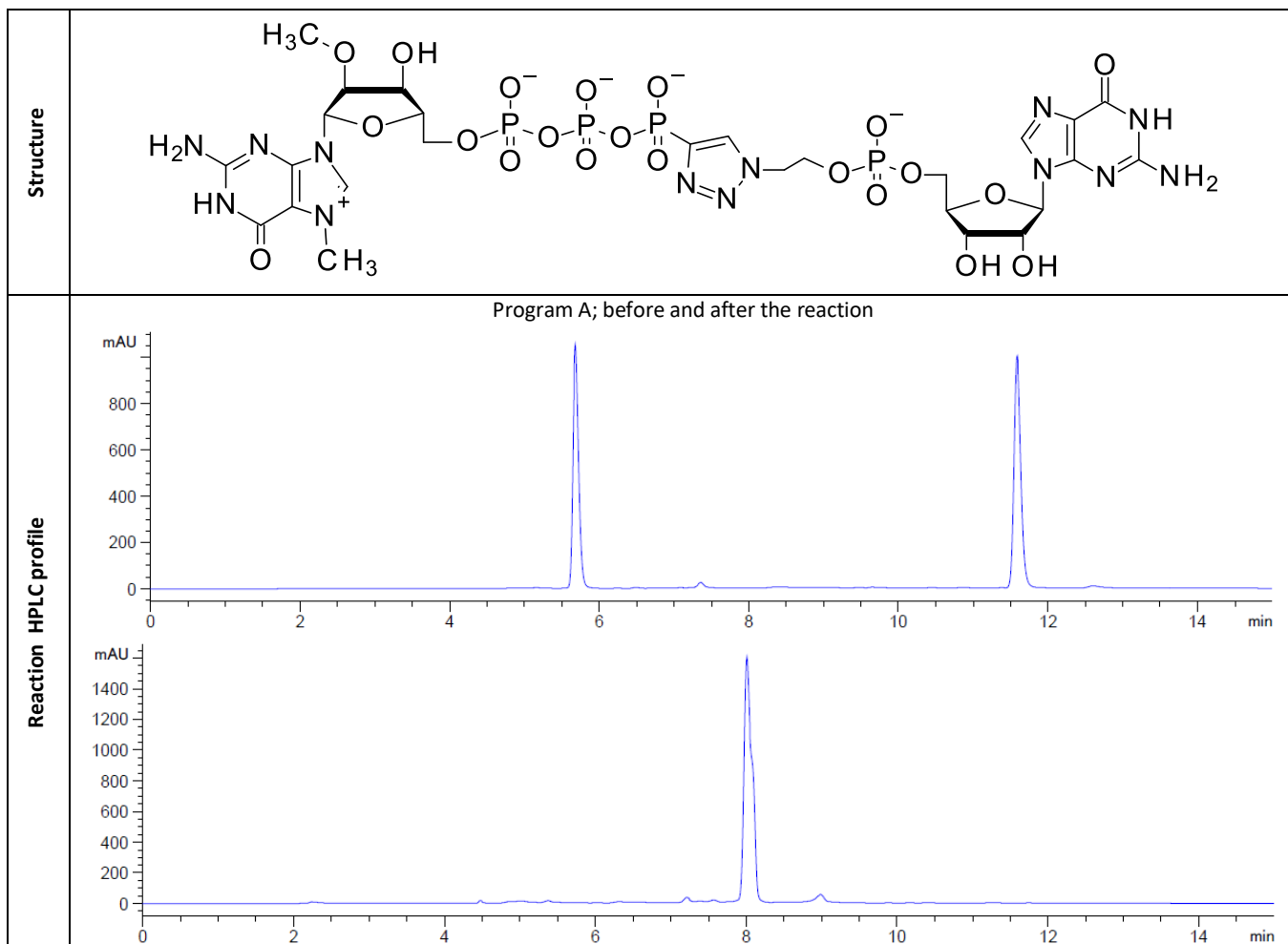
(1b) $m_2^{7,2'-O}$ Gppp-triazole- C_2H_4NHppG

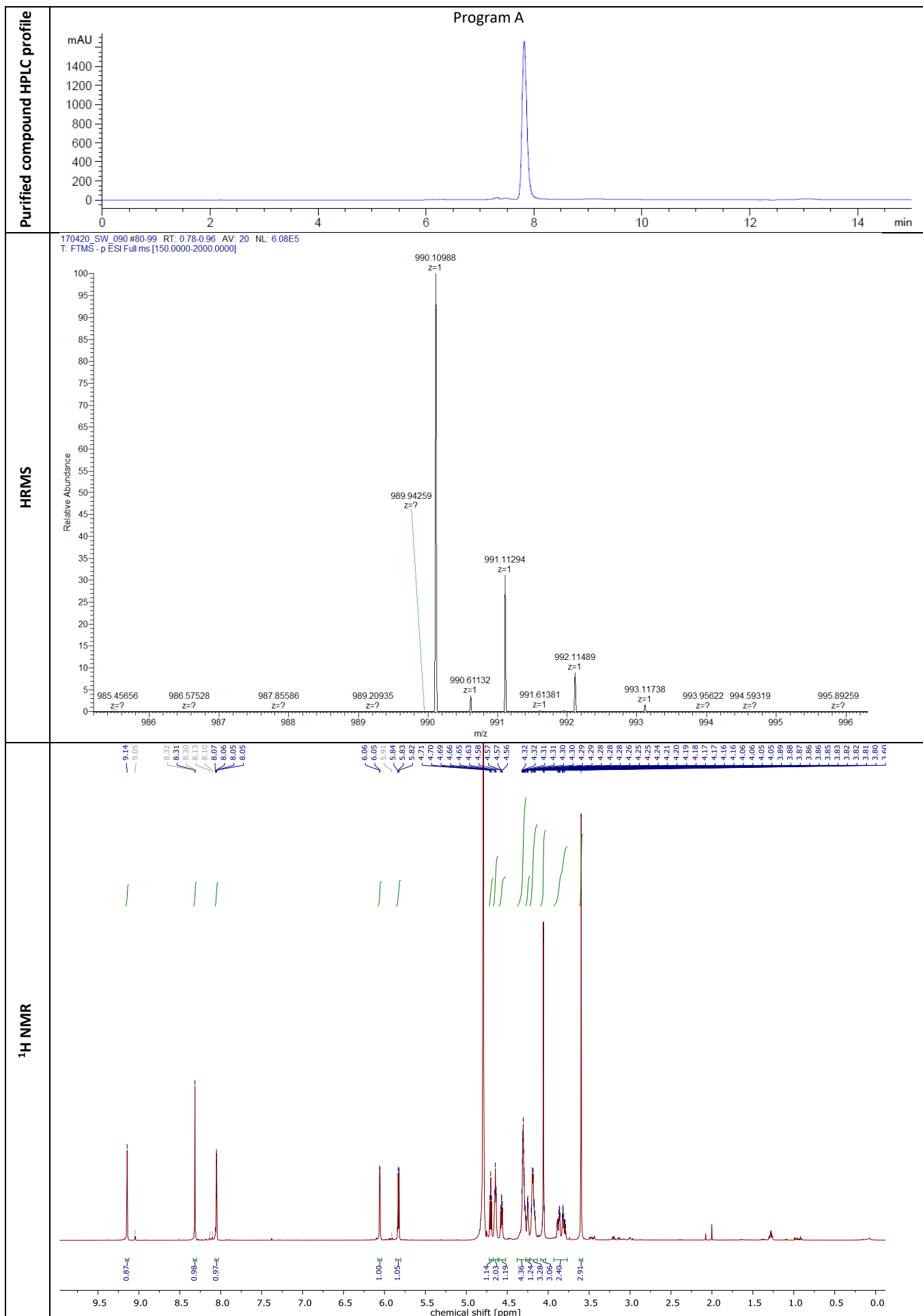


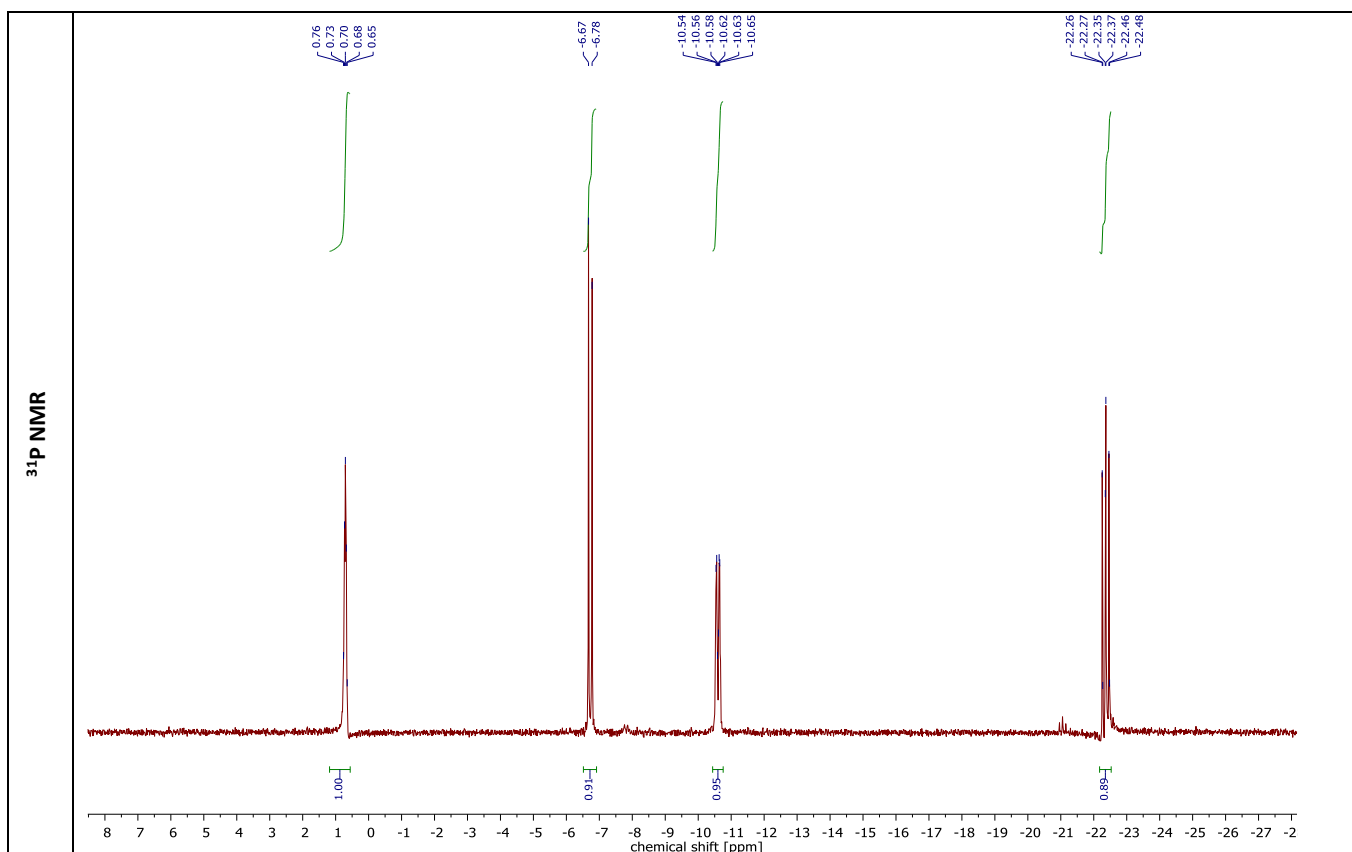




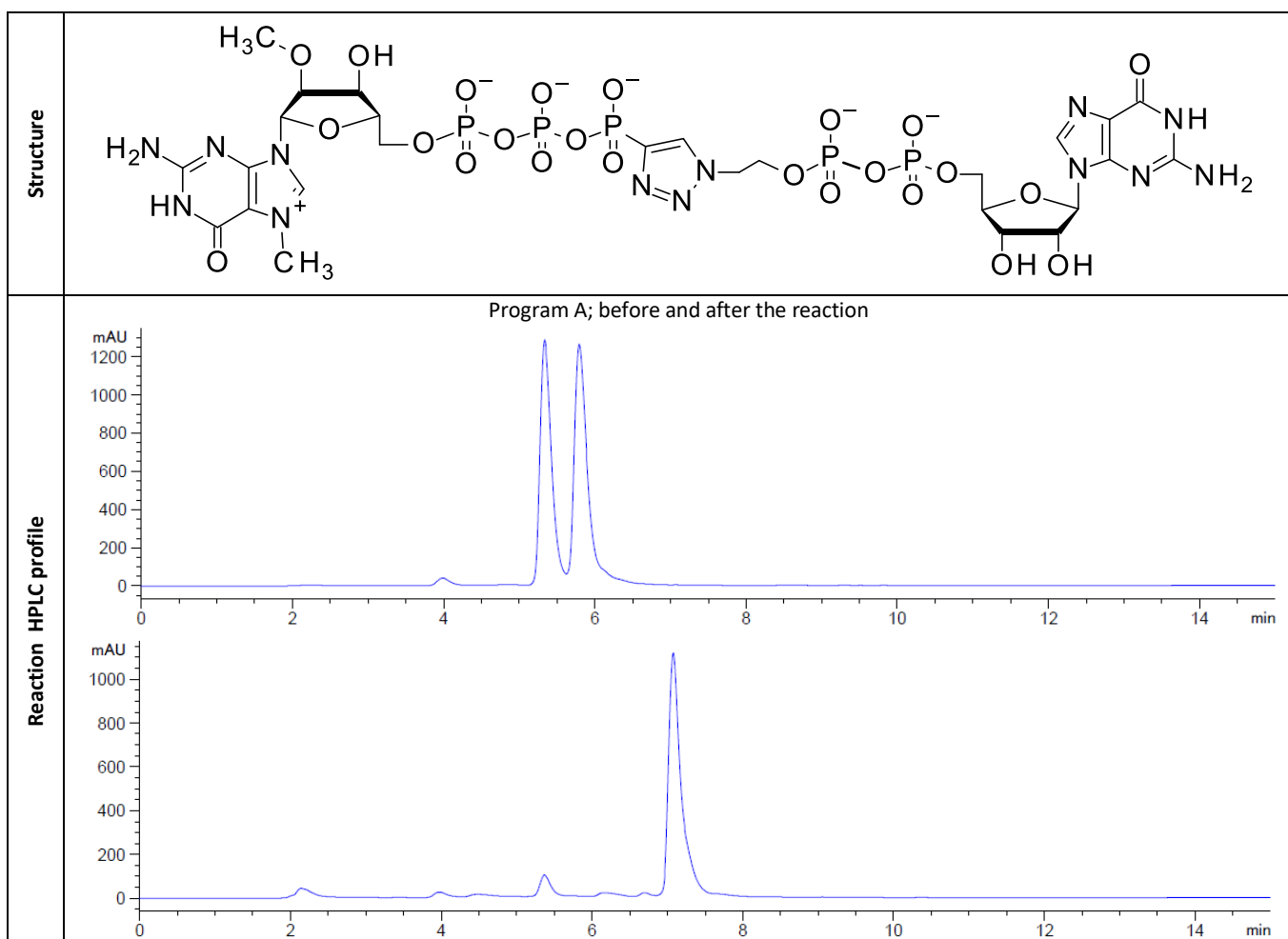
(1c) m₂^{7,2'-O}Gppp-triazole-C₂H₄OpG

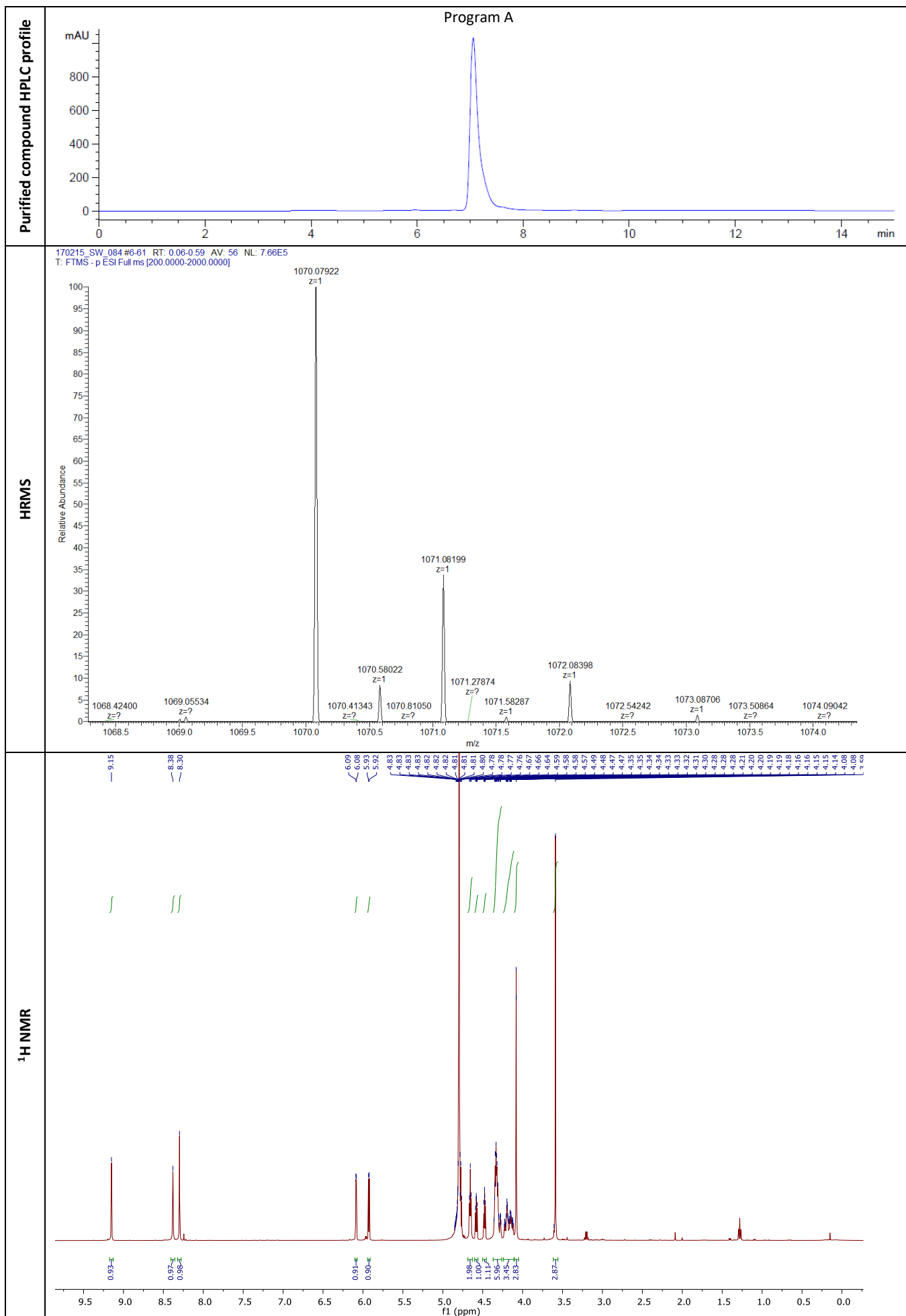


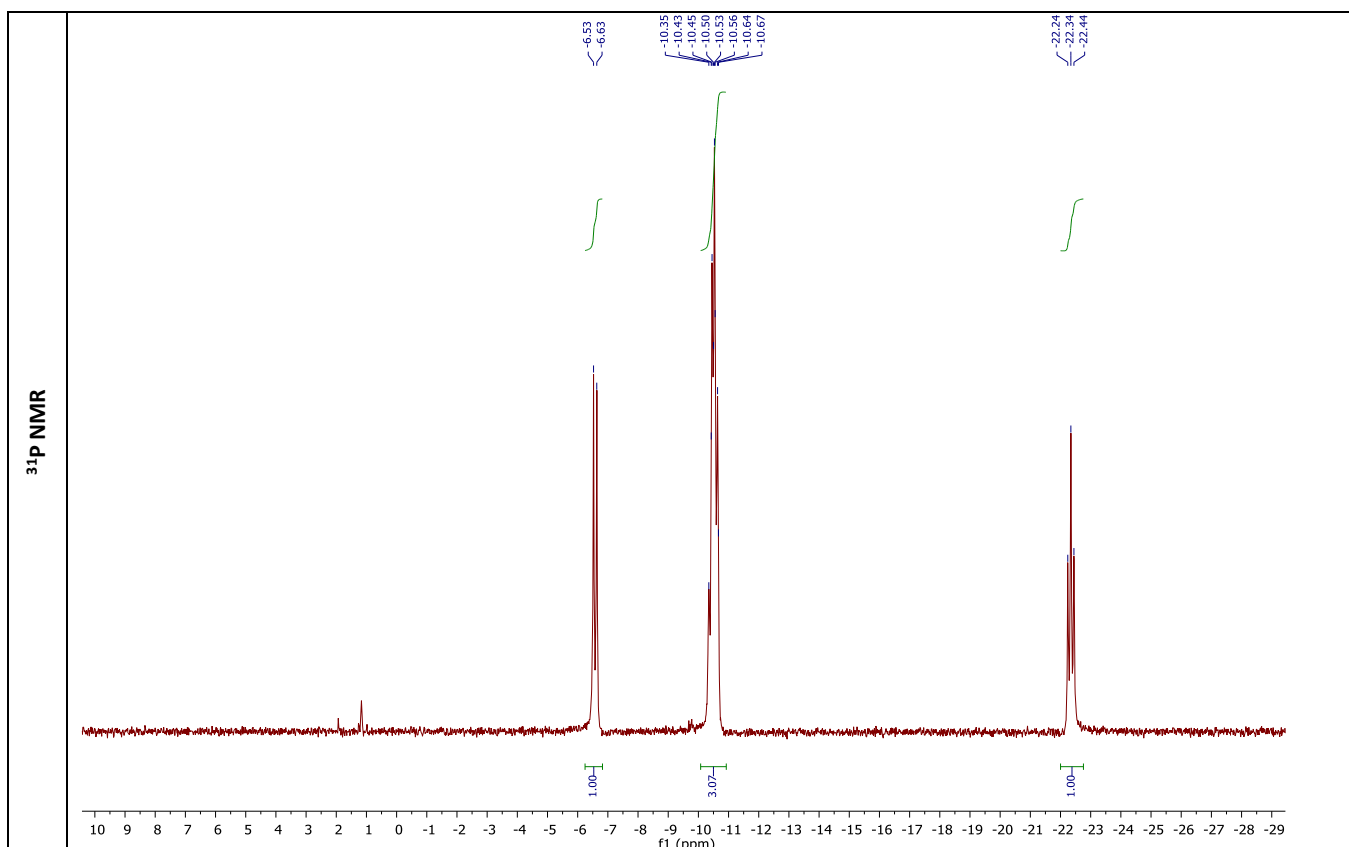




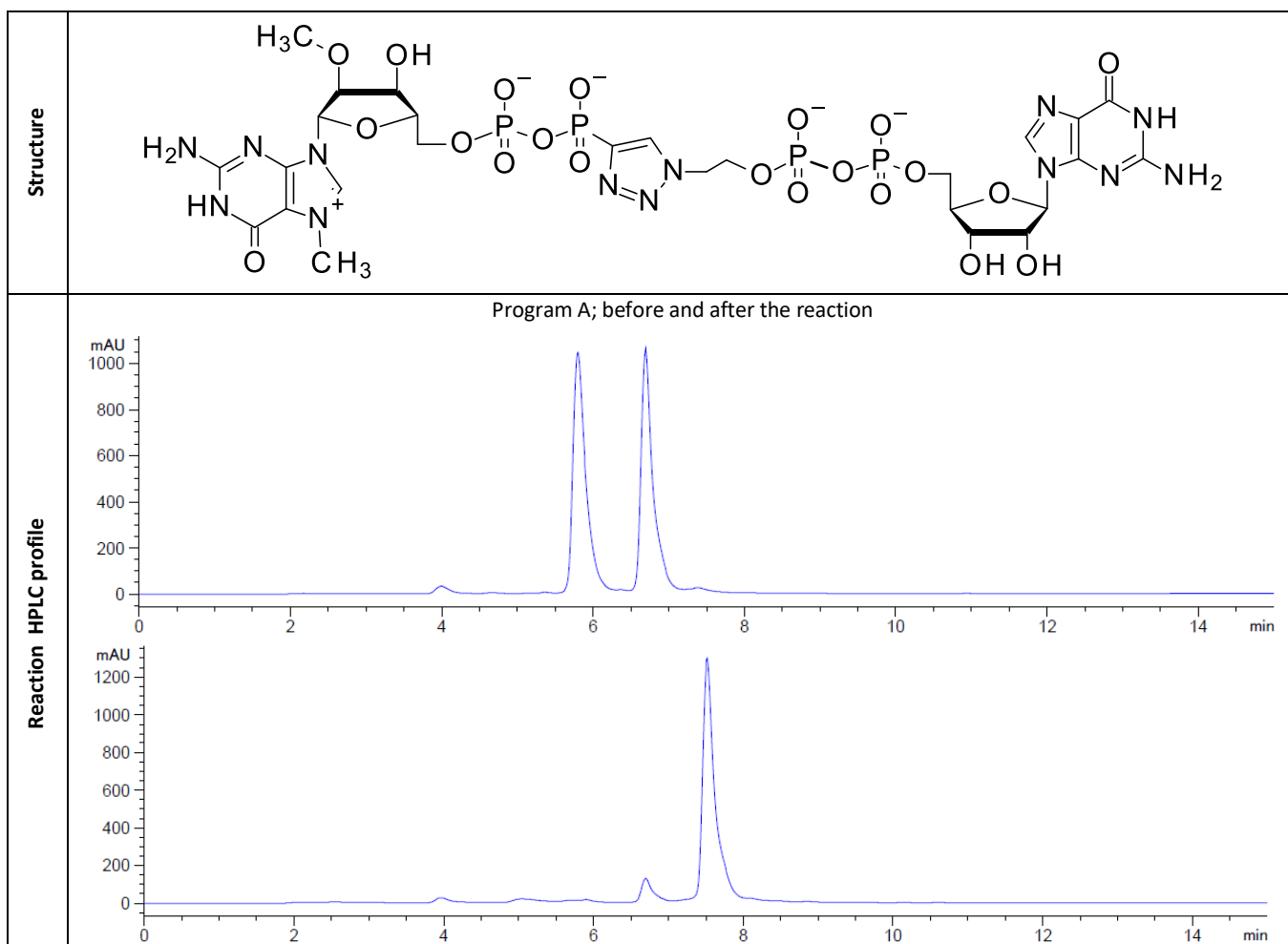
(1d) m₂^{7,2'-O}Gppp-triazole-C₂H₄OppG

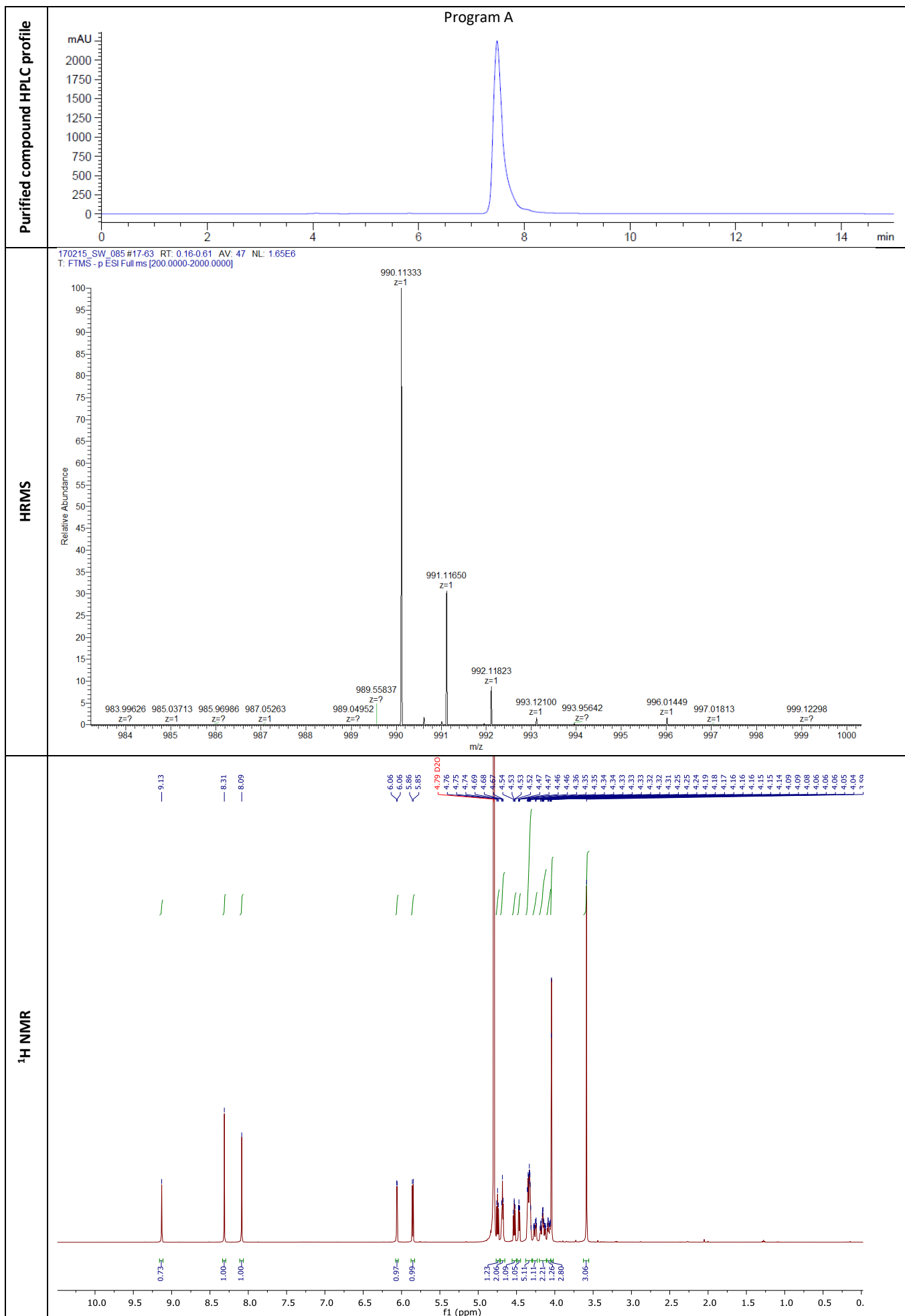


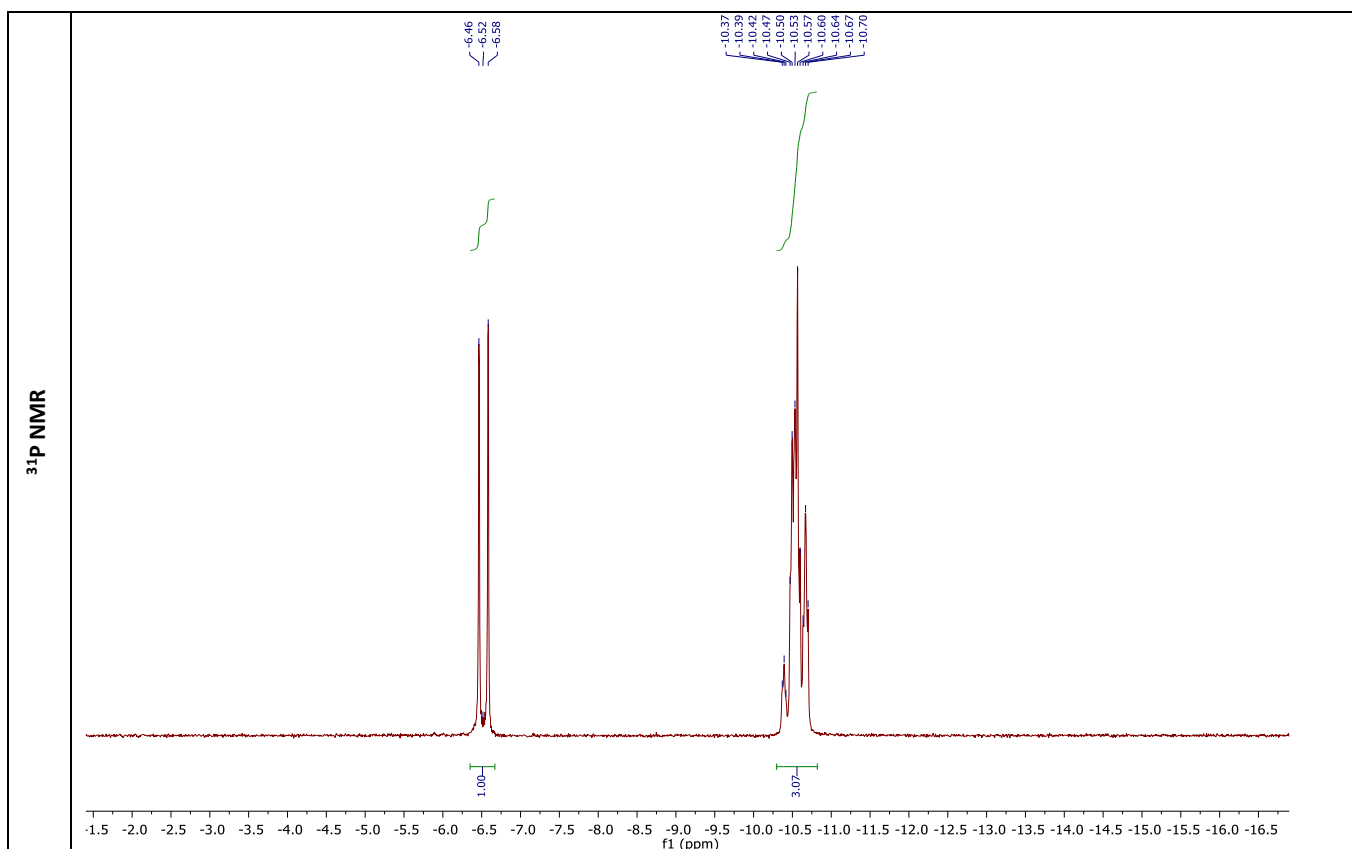




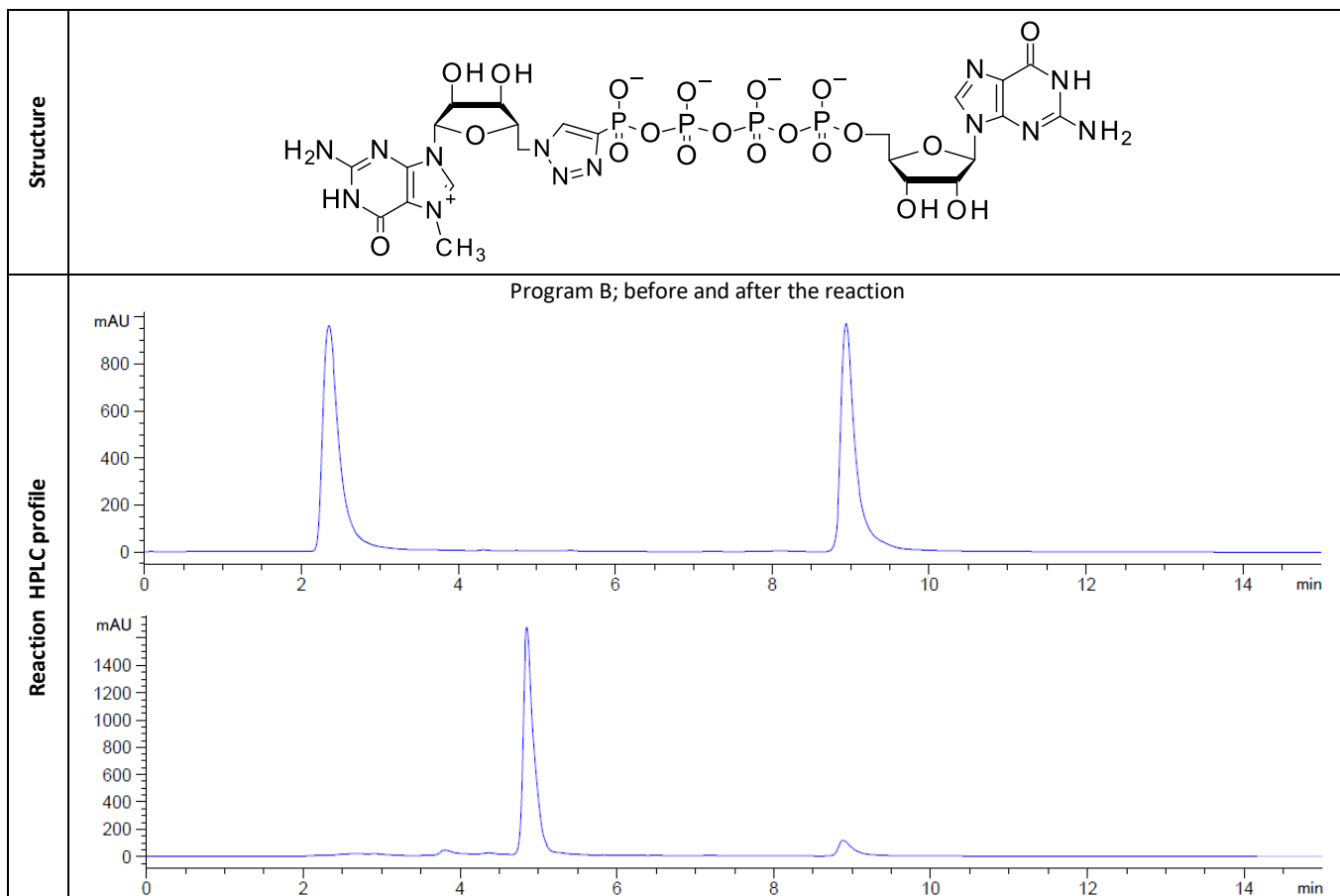
(1e) m₂^{7,2'-O}Gpp-triazole-C₂H₄OppG

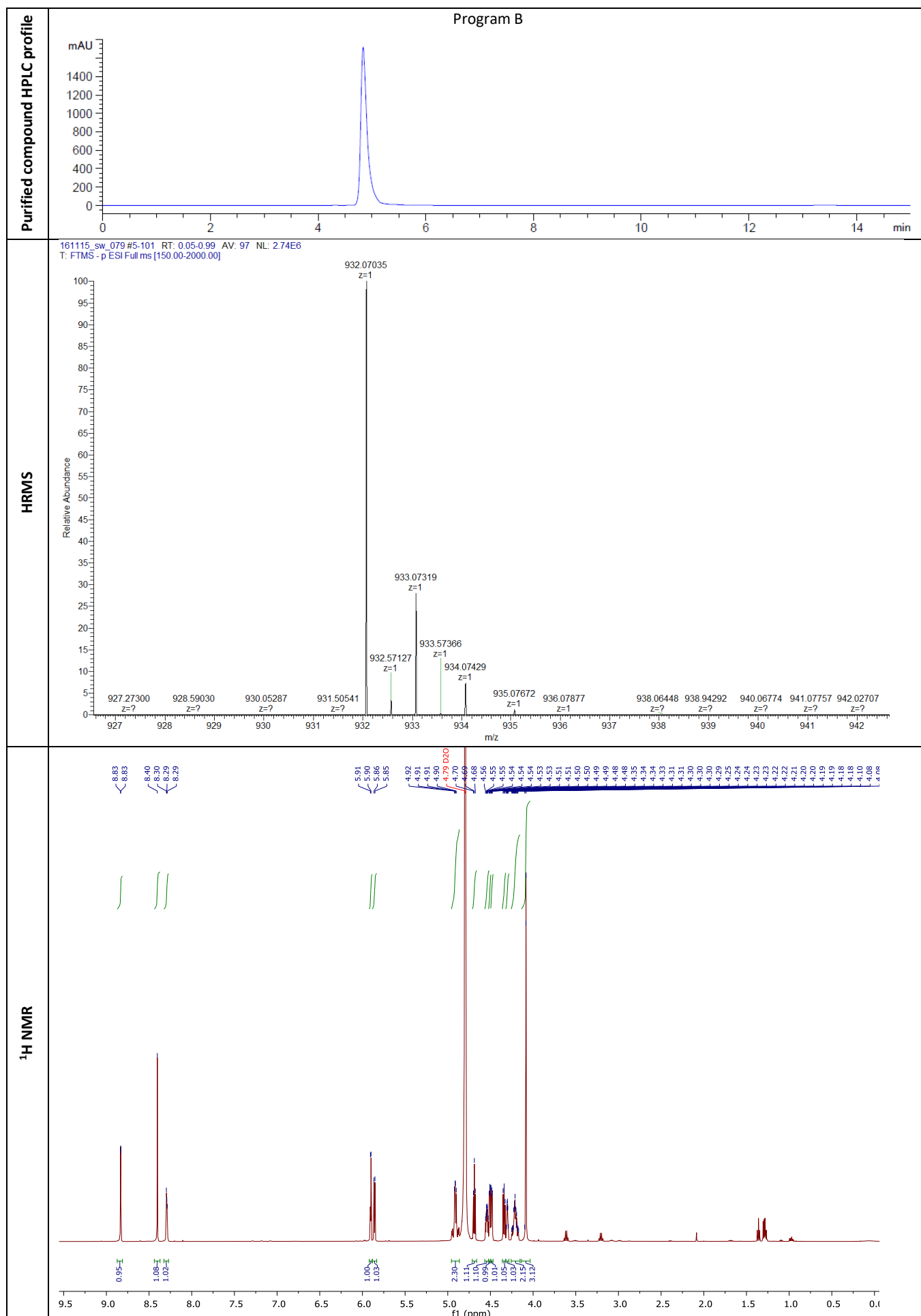


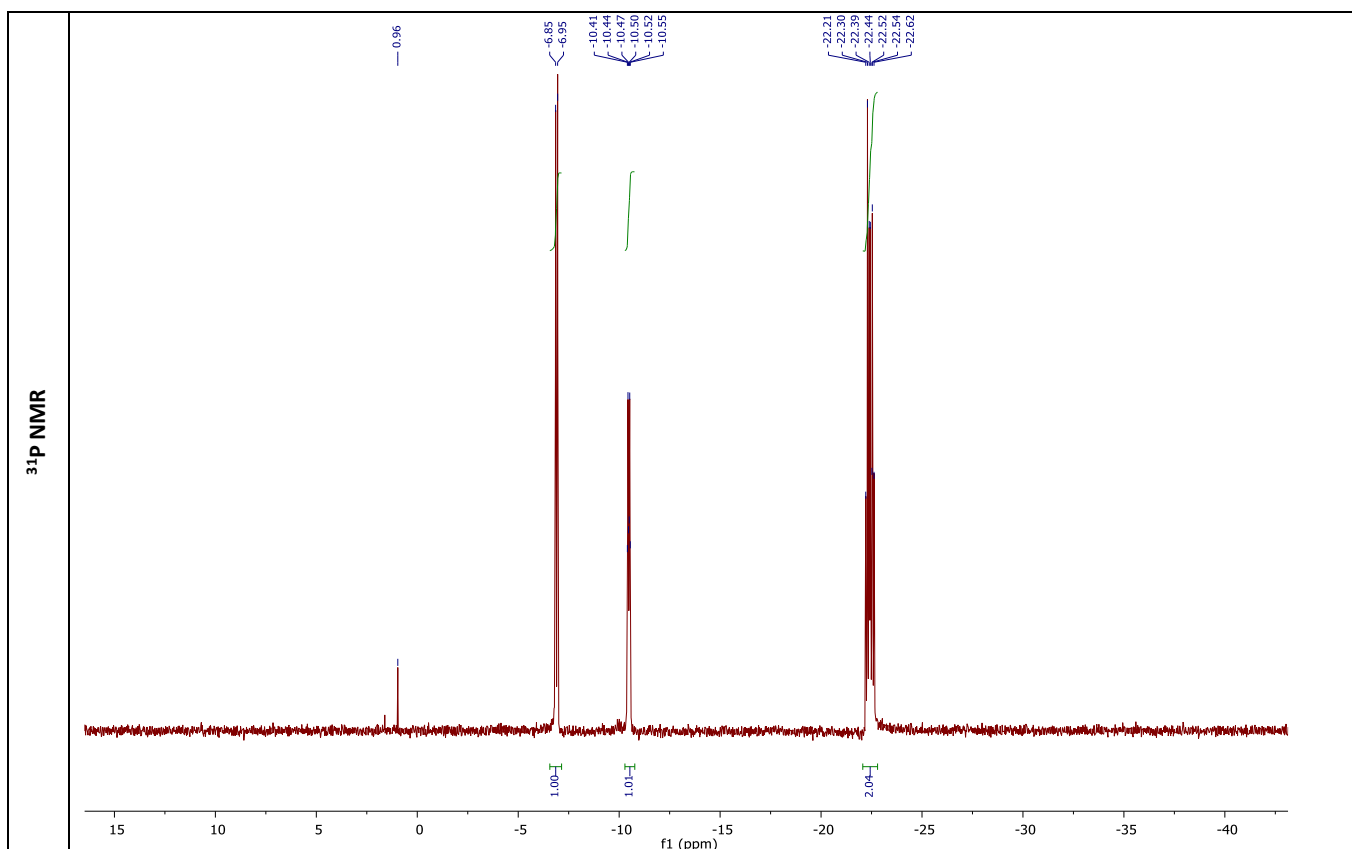




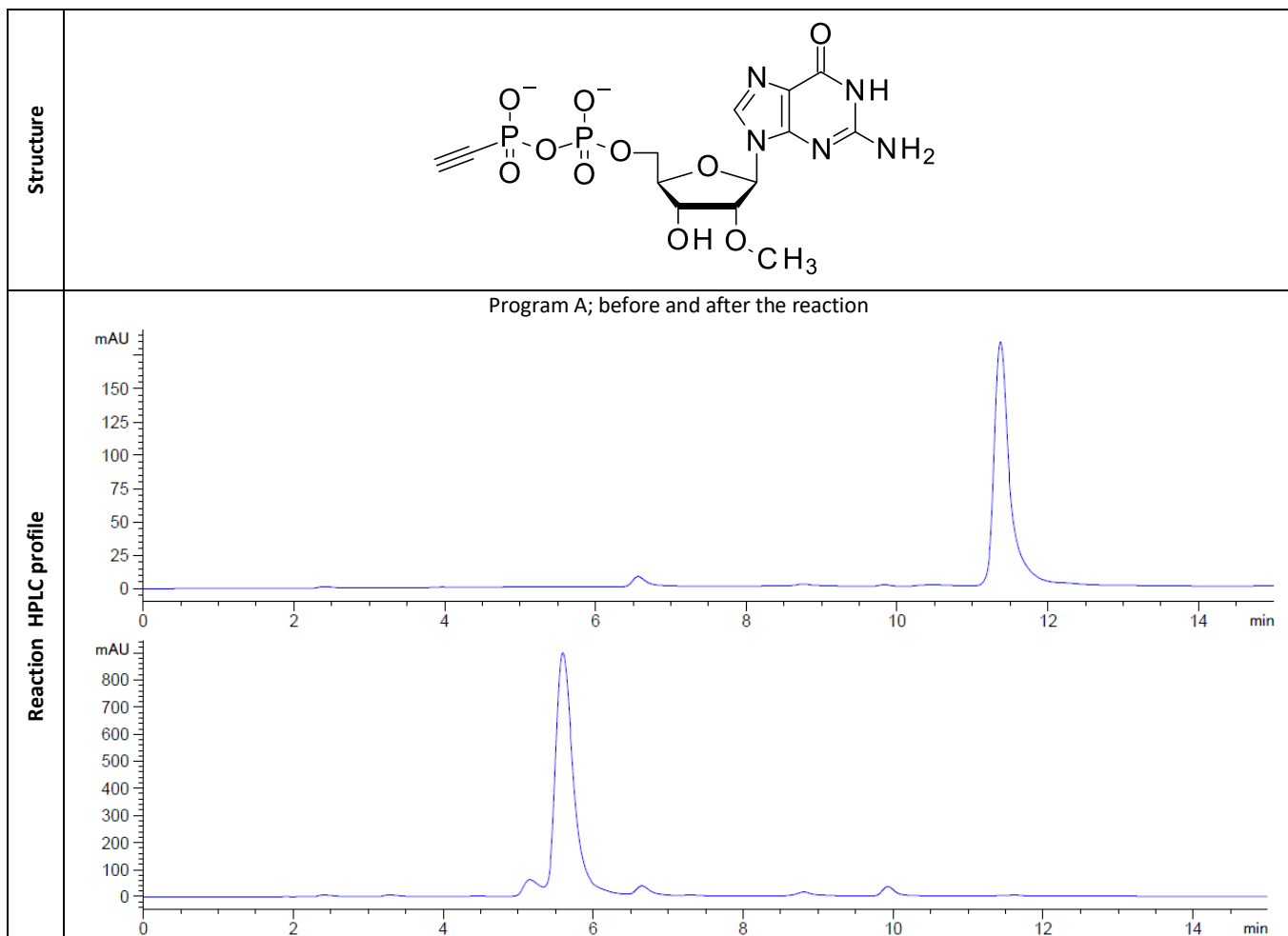
(2b) m⁷G-triazole-ppppG

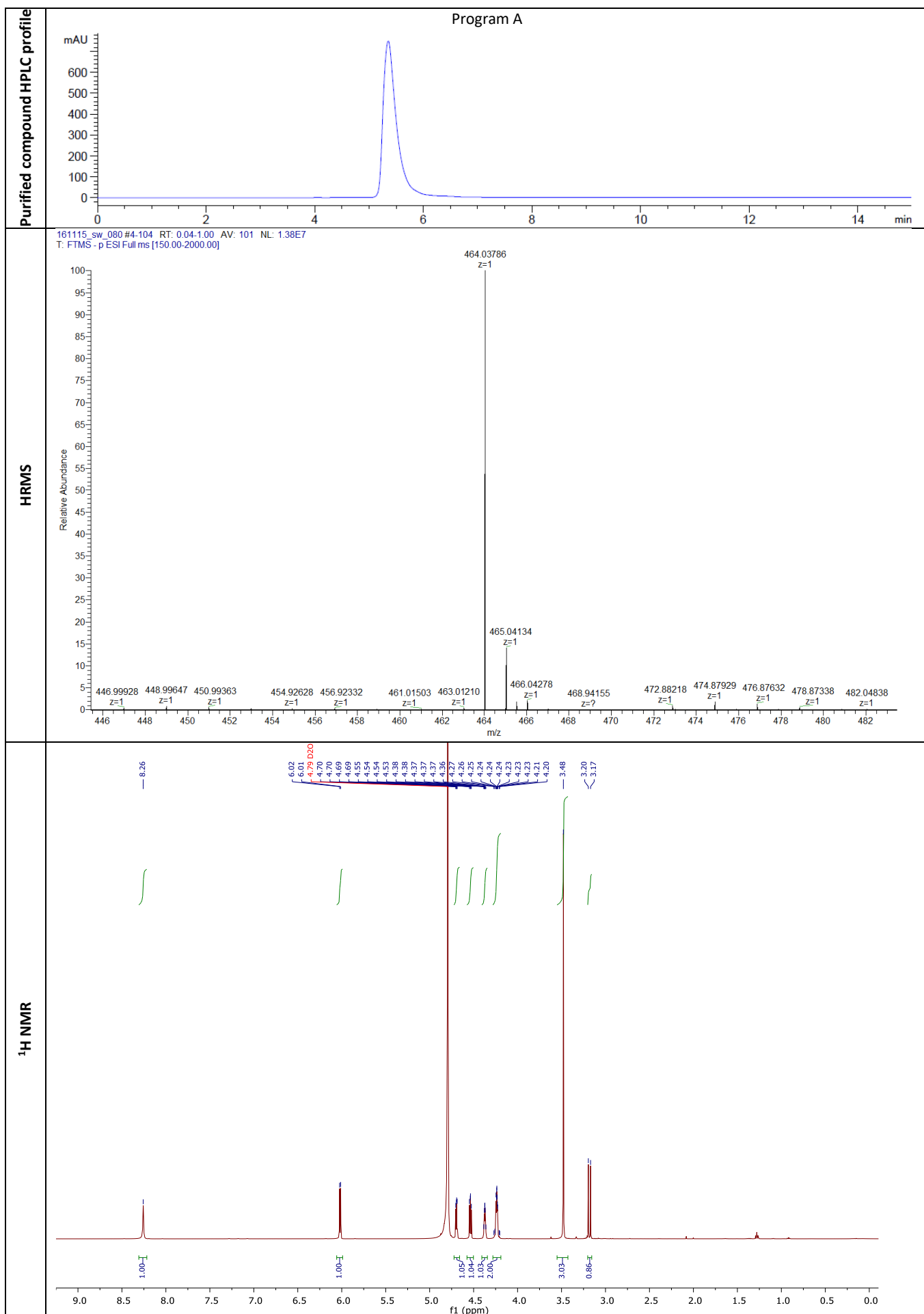


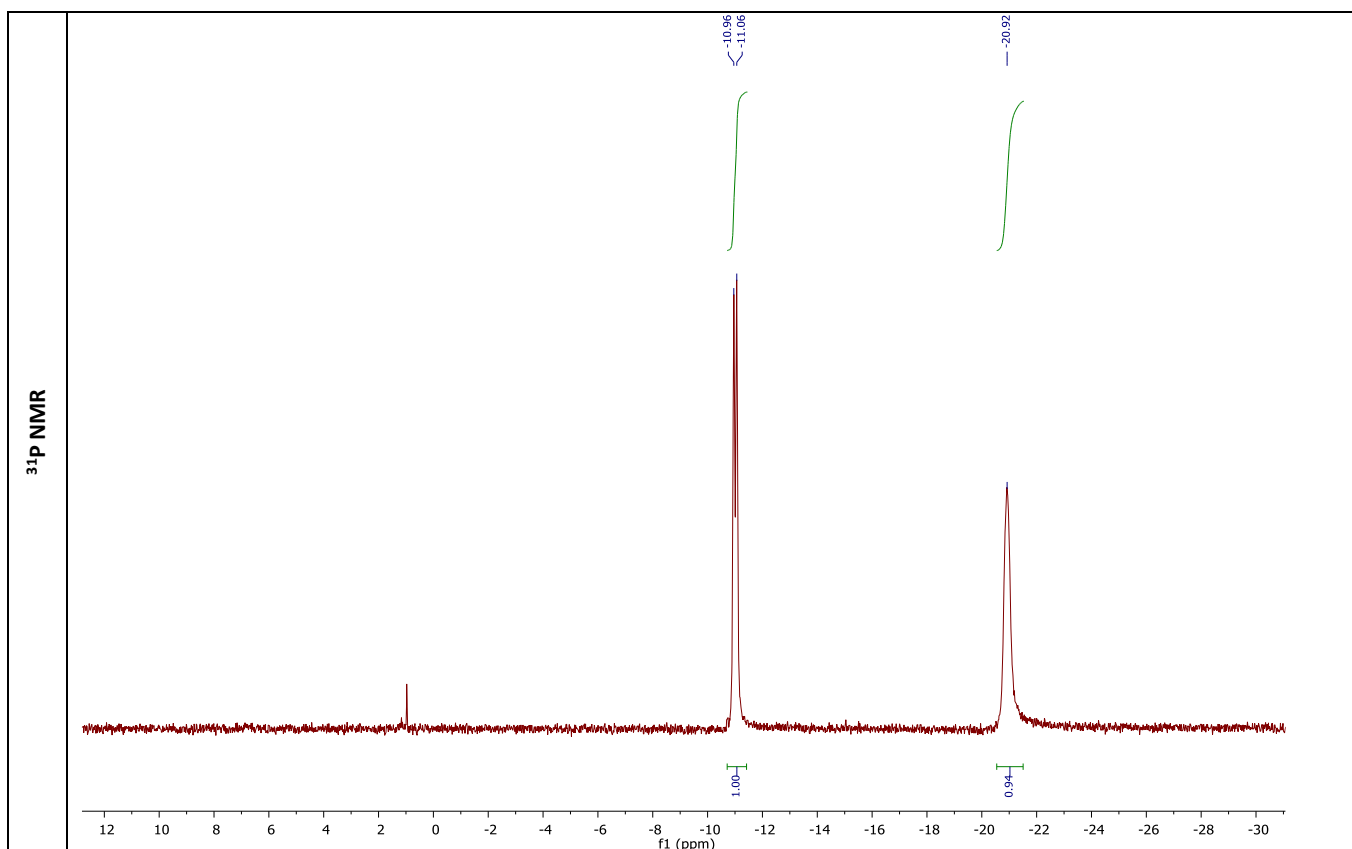




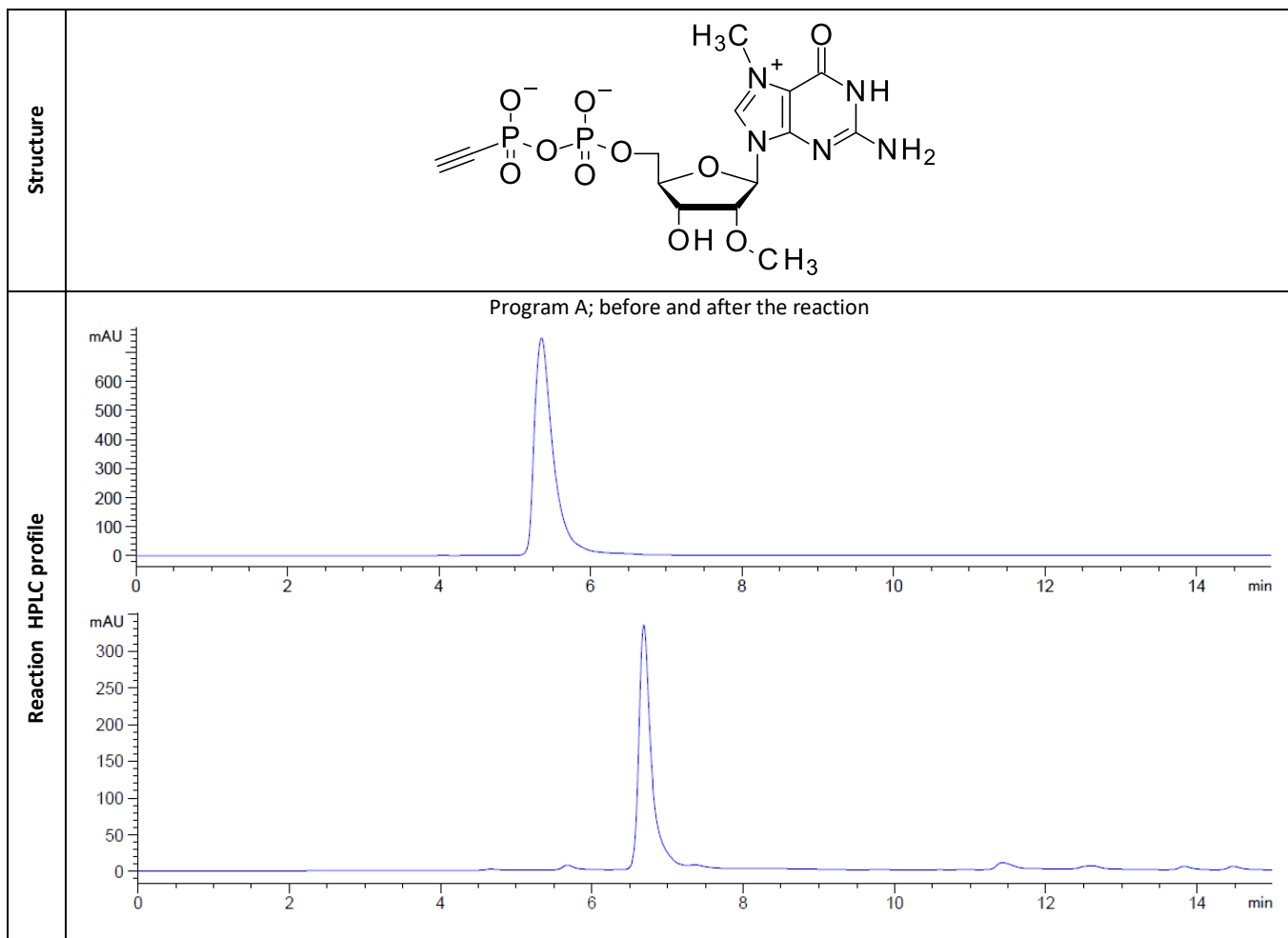
(4a) m^{2'}-O⁻GppC₂H

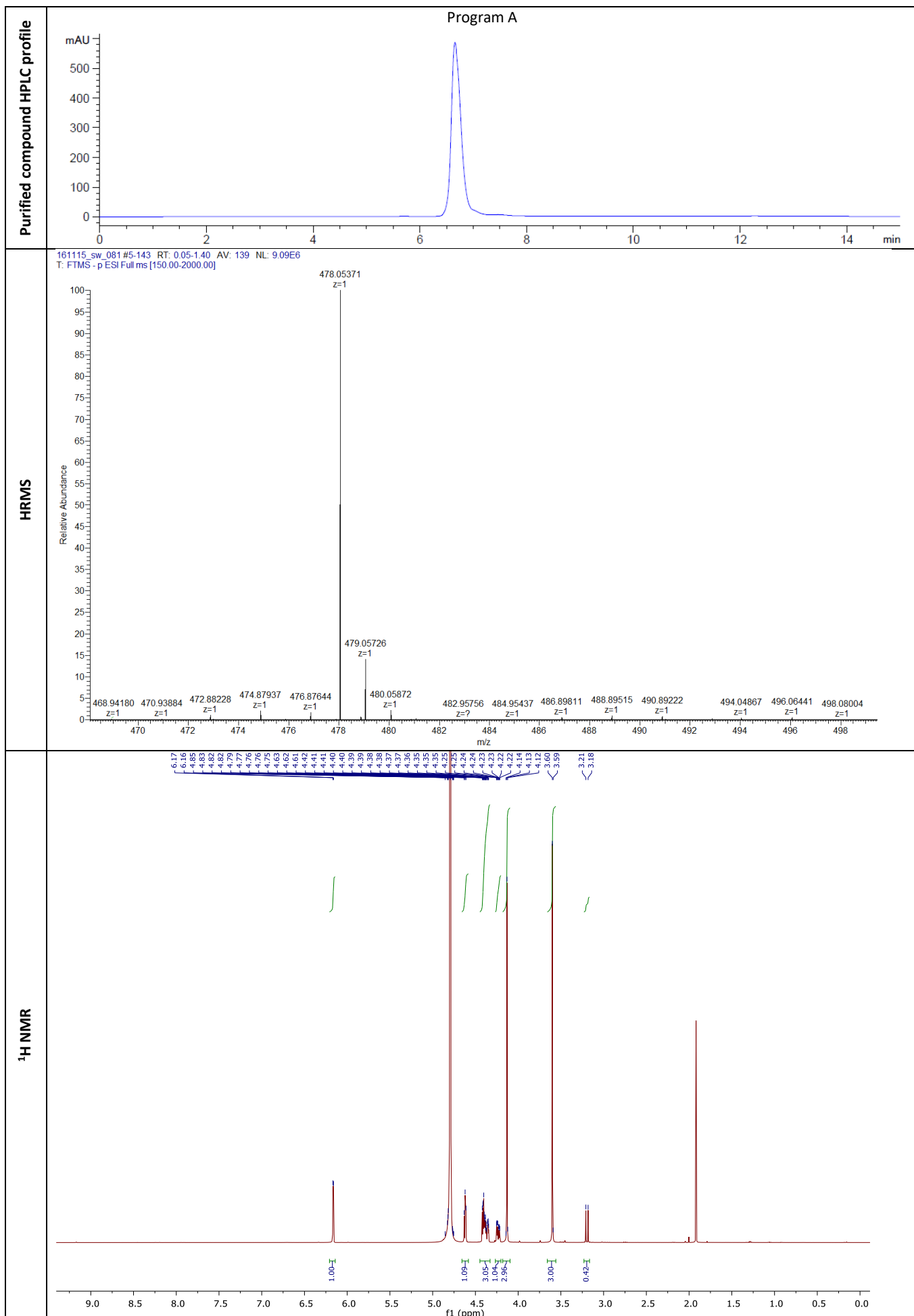


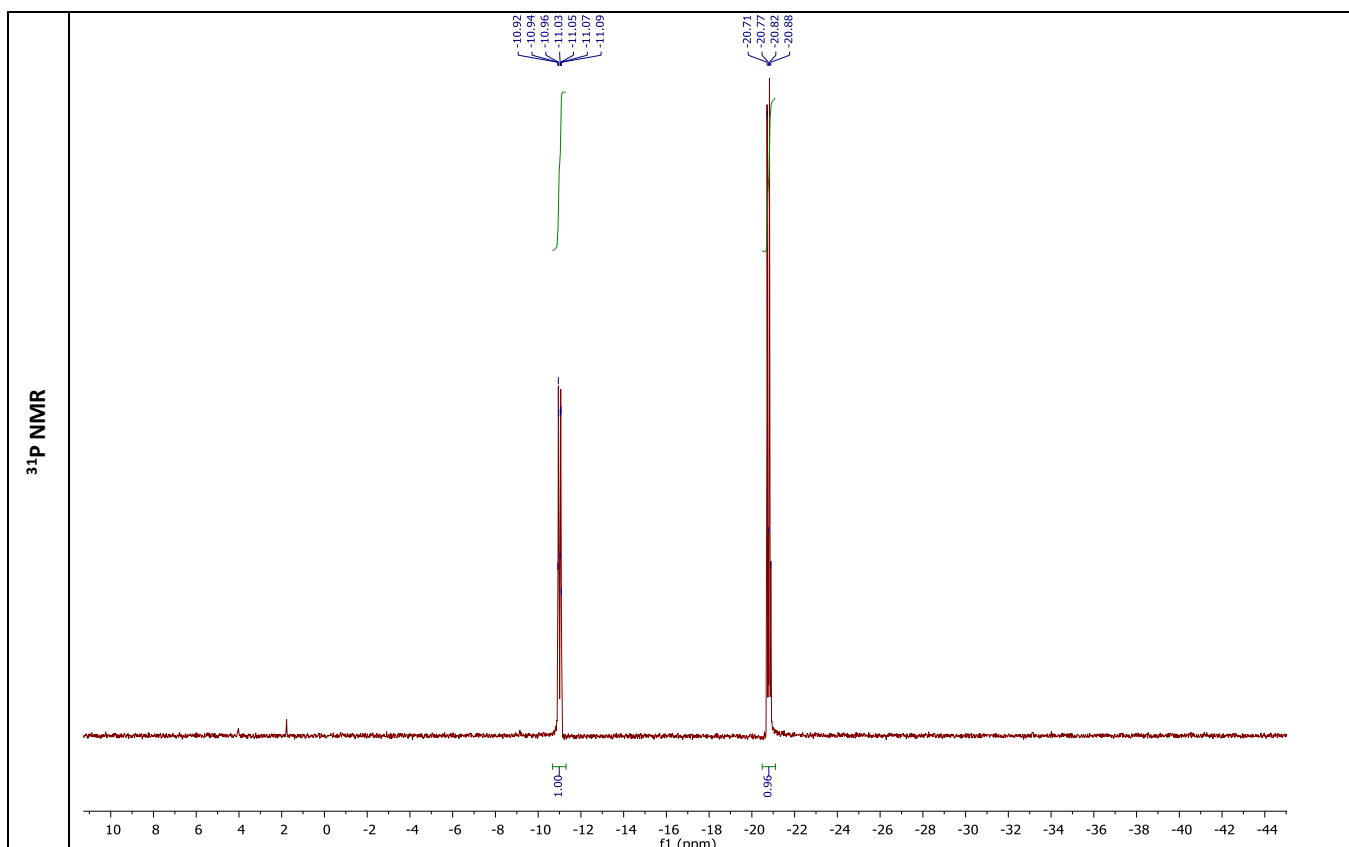




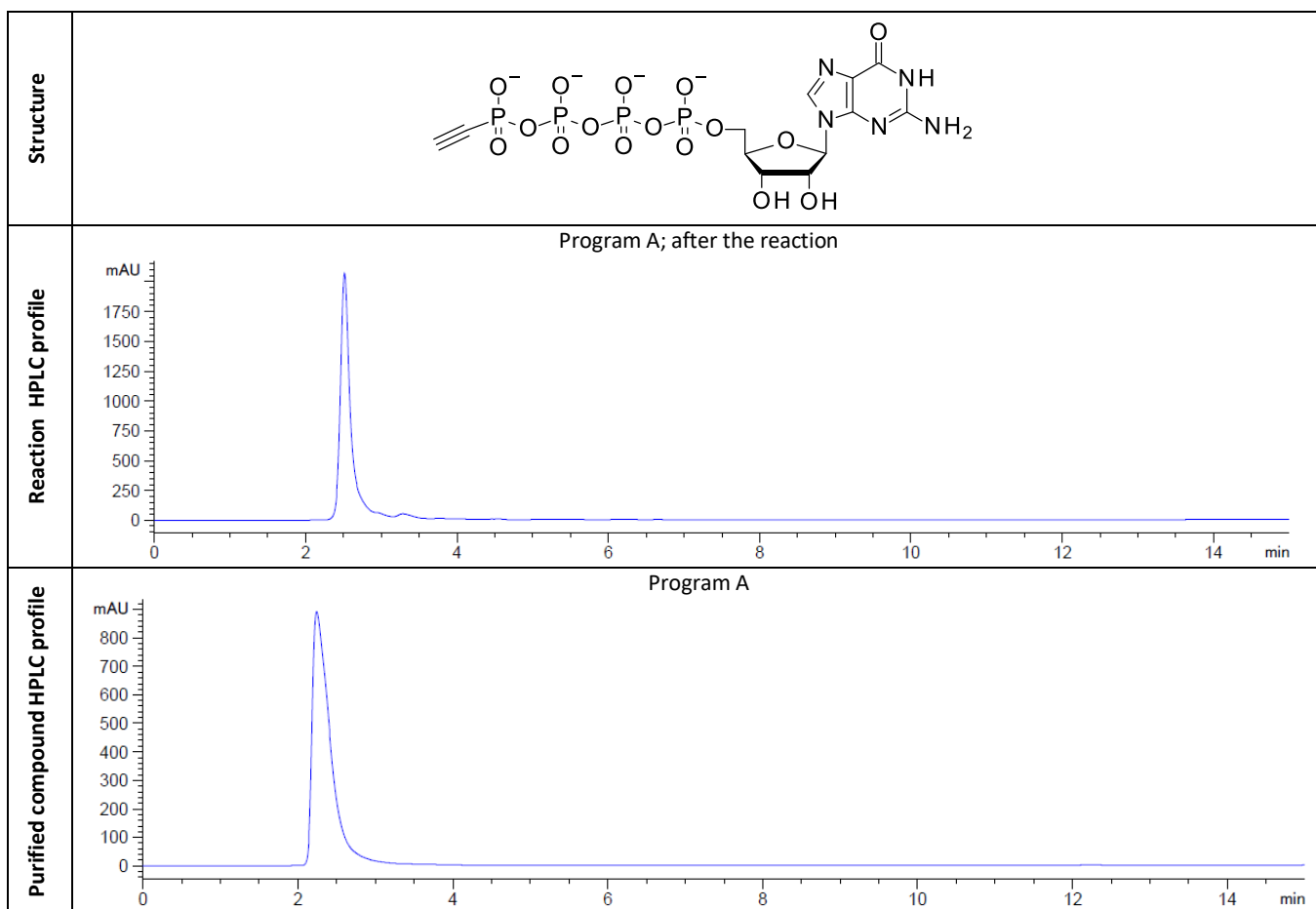
(4c) m₂^{7,2'-O}GppC₂H

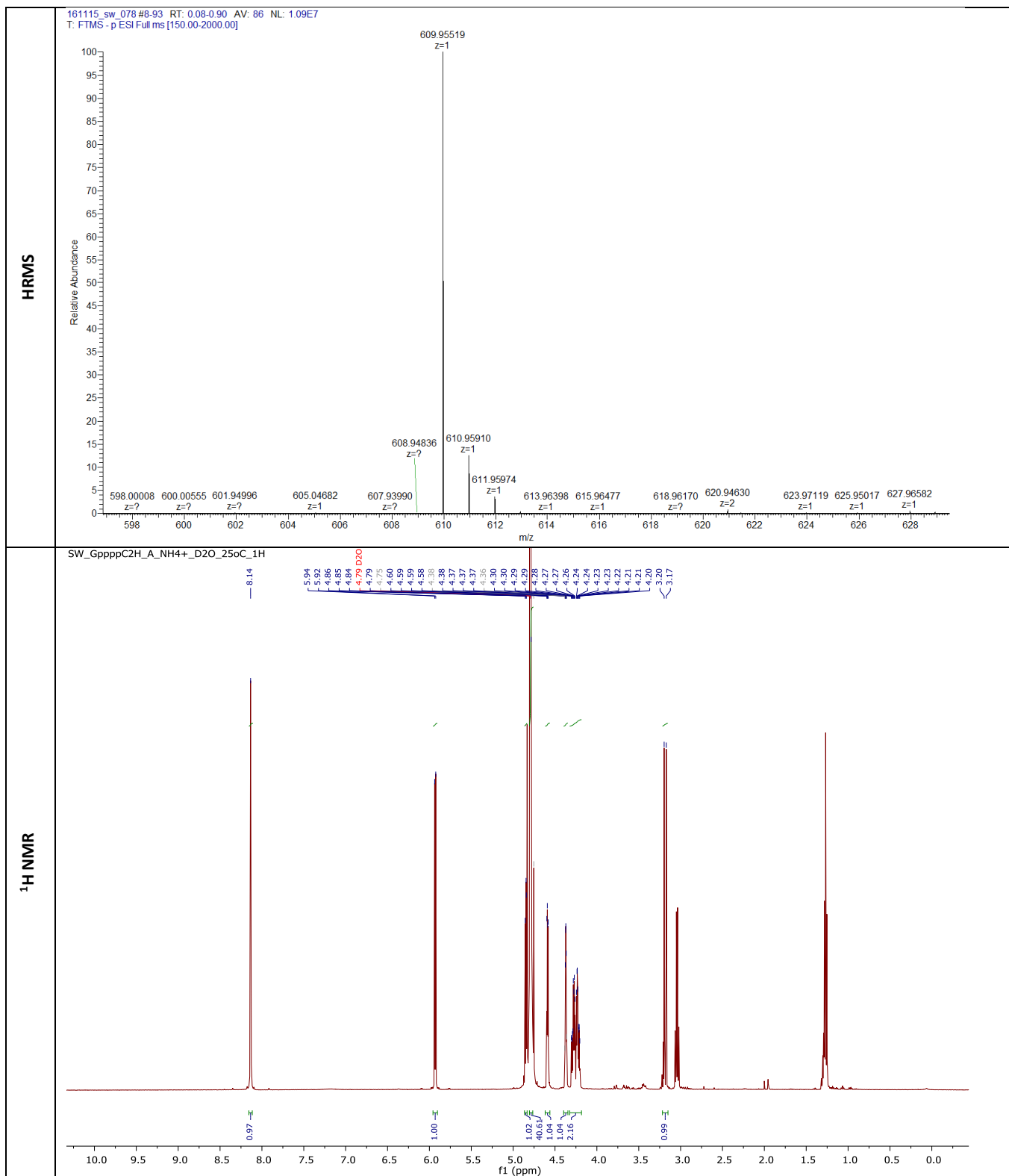


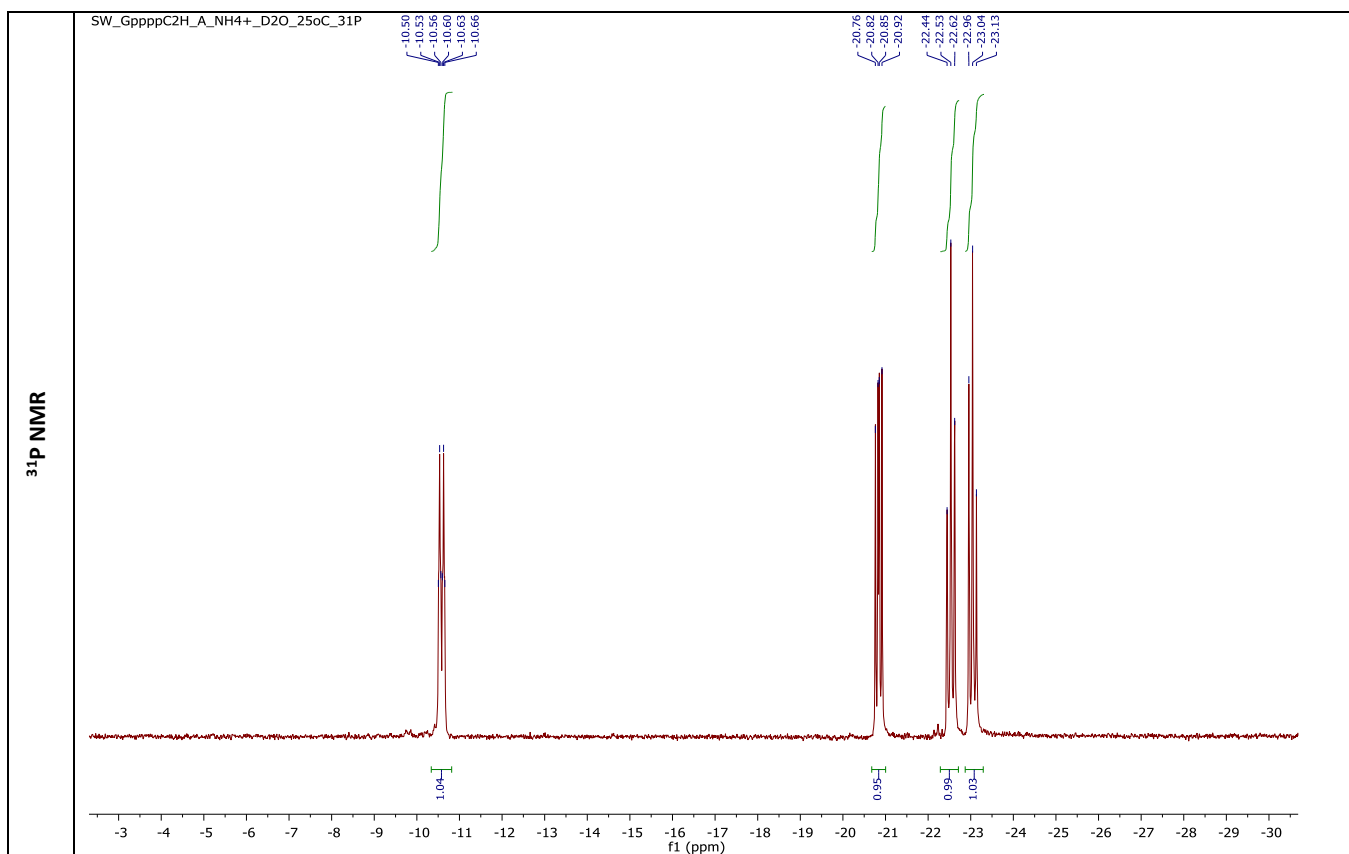




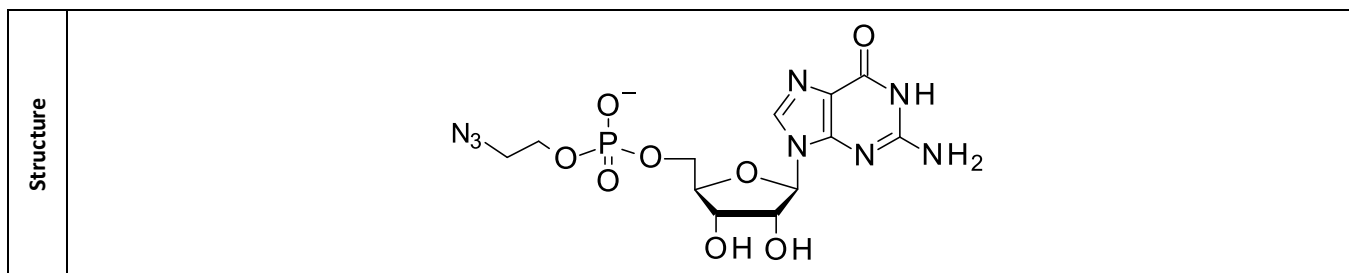
(4e) GpppppC₂H

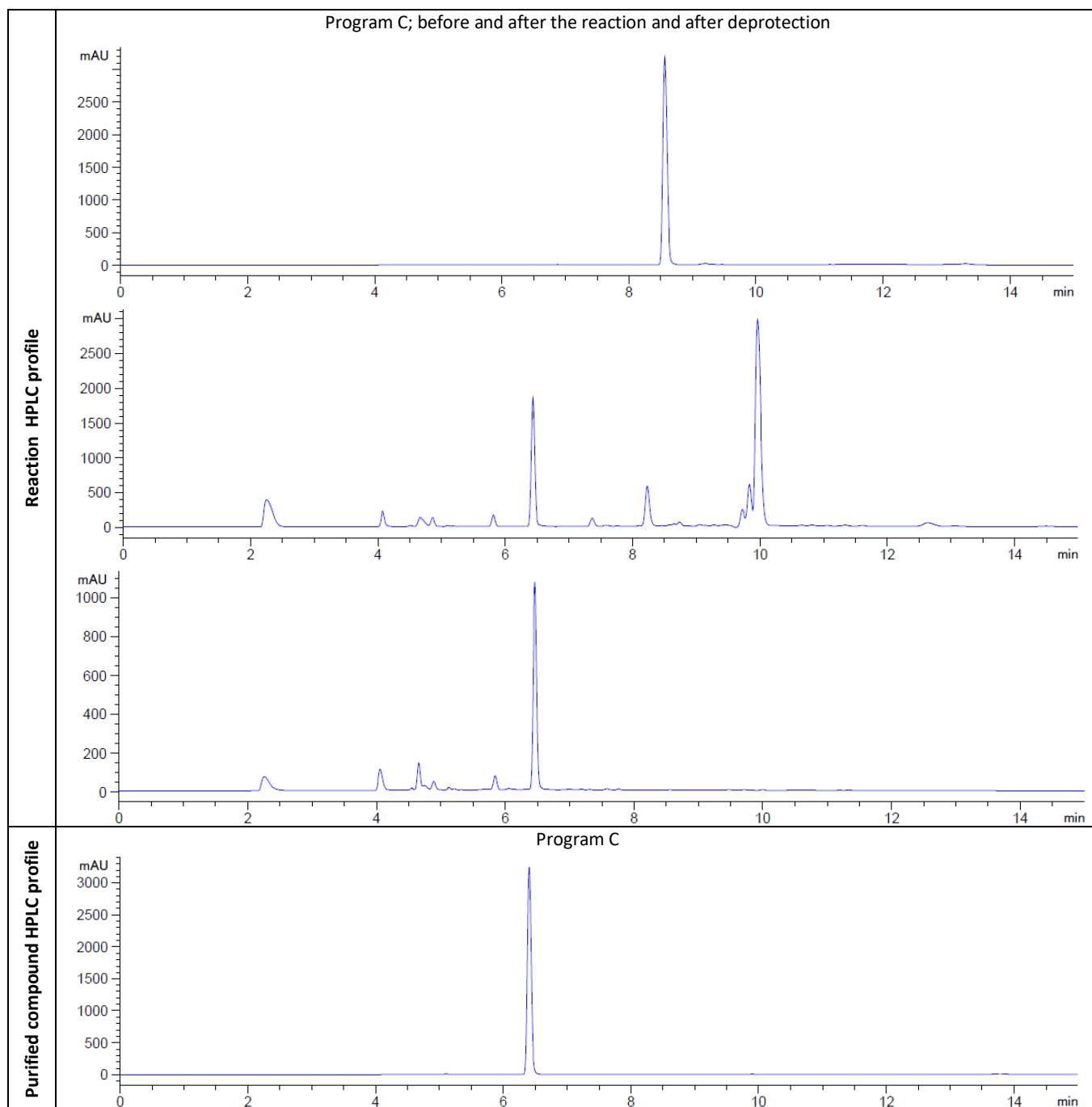


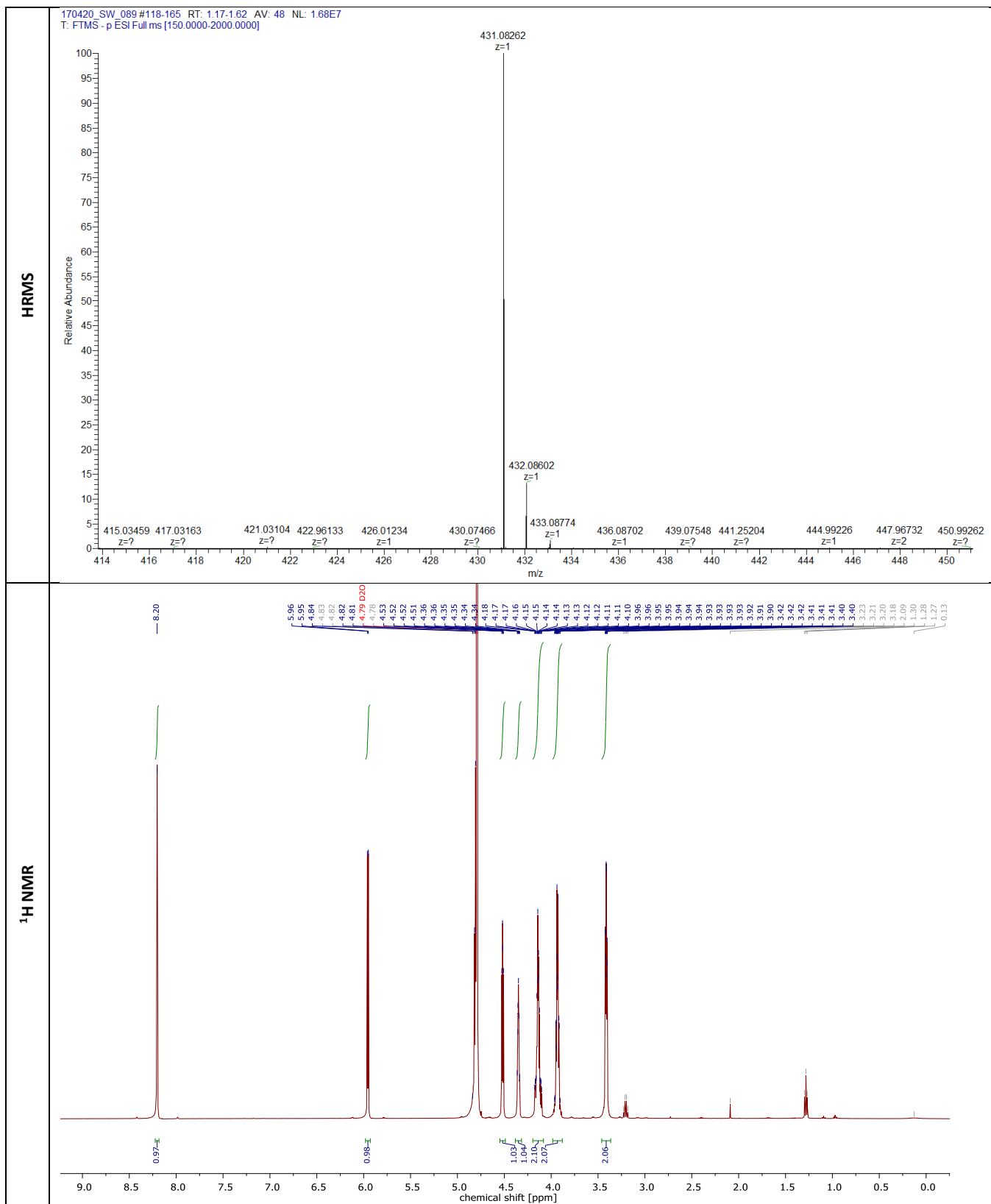


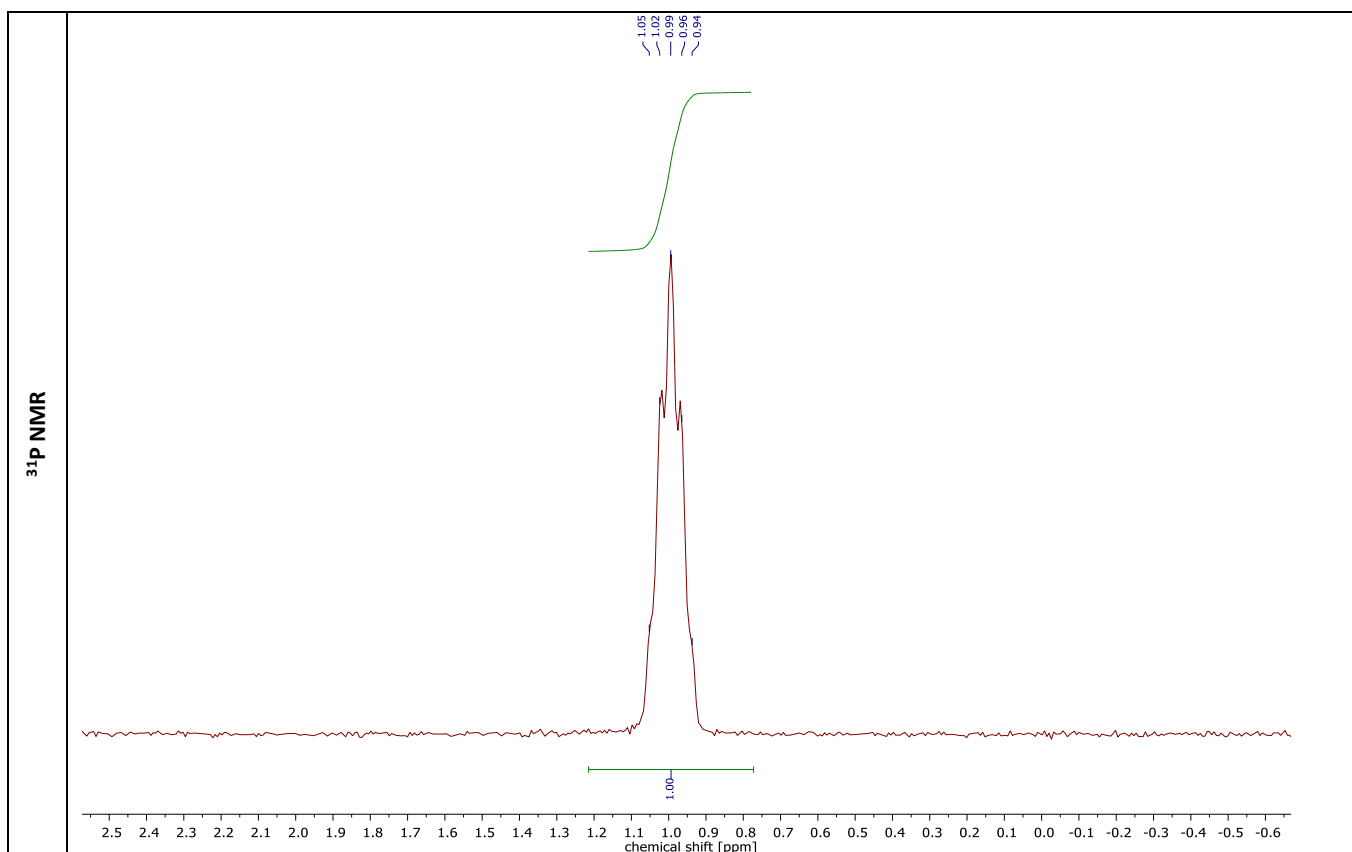


(6a) GpOC₂H₄N₃

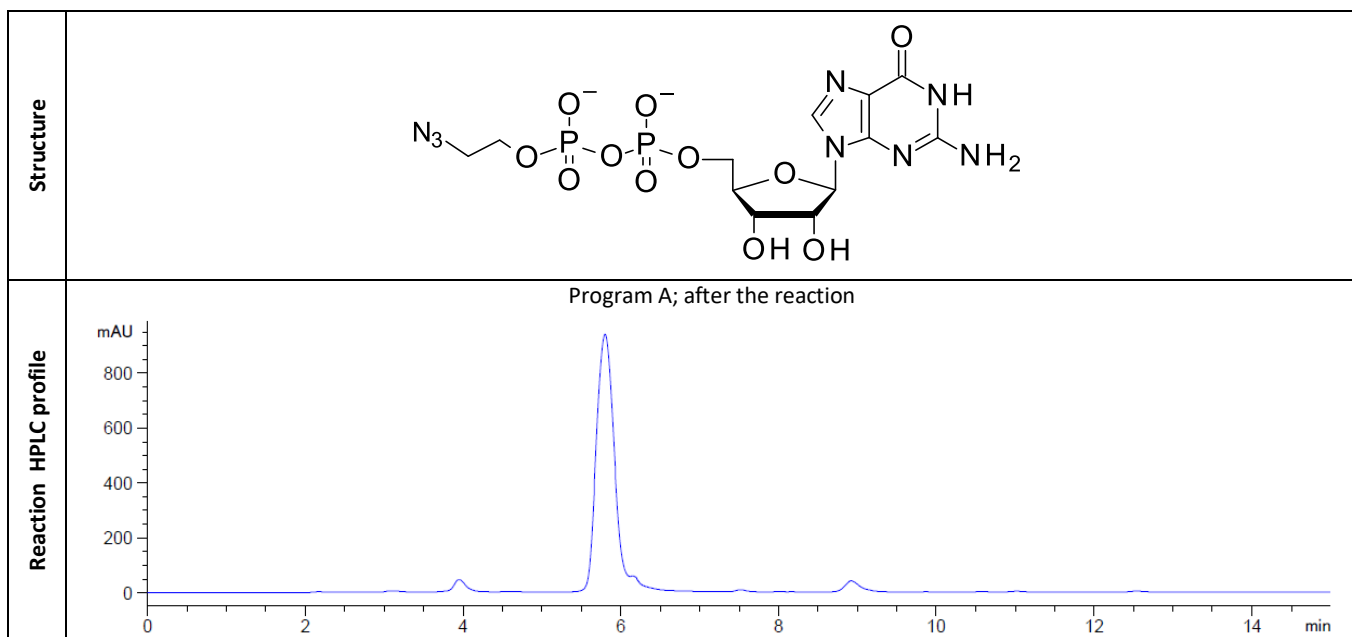


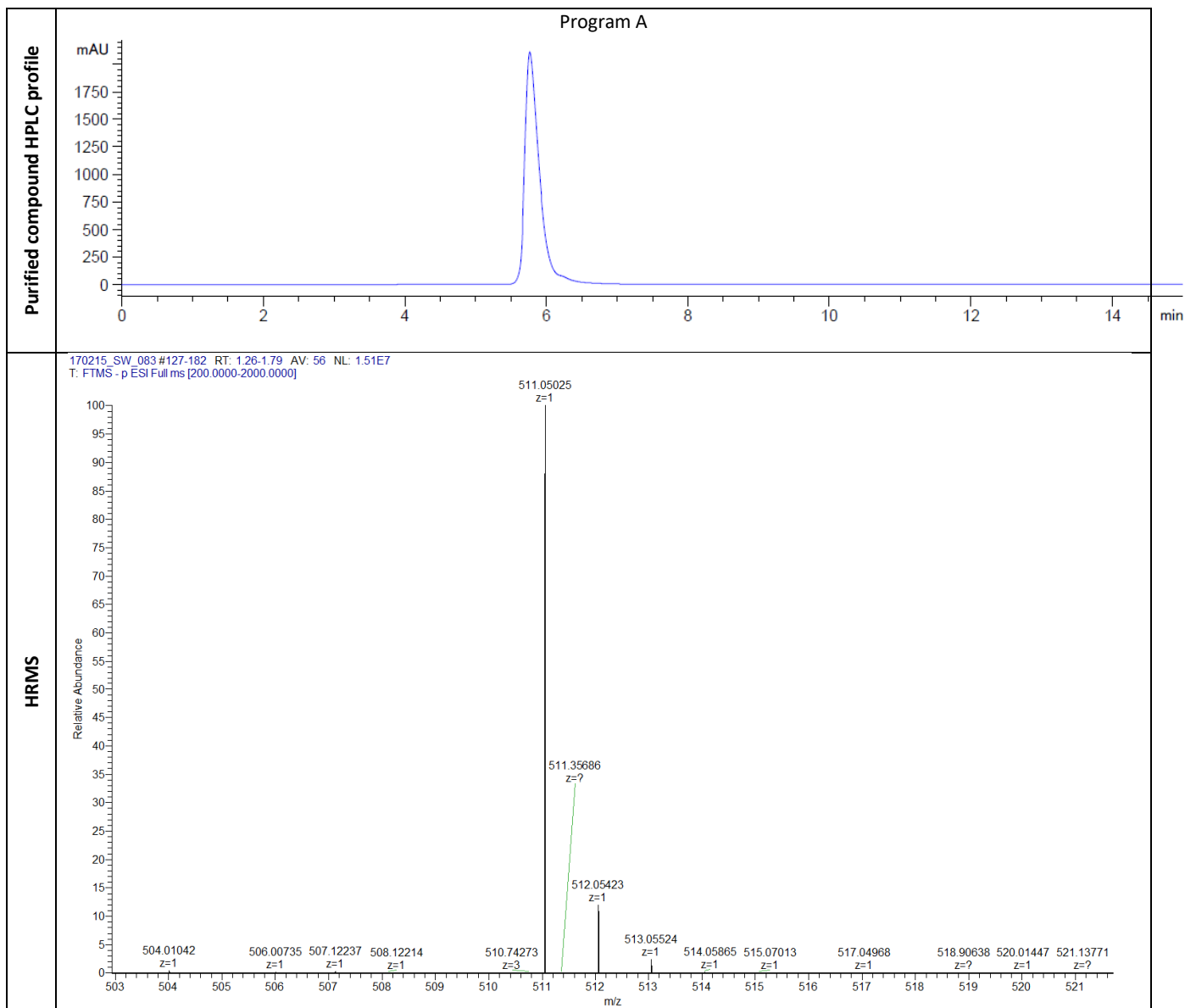


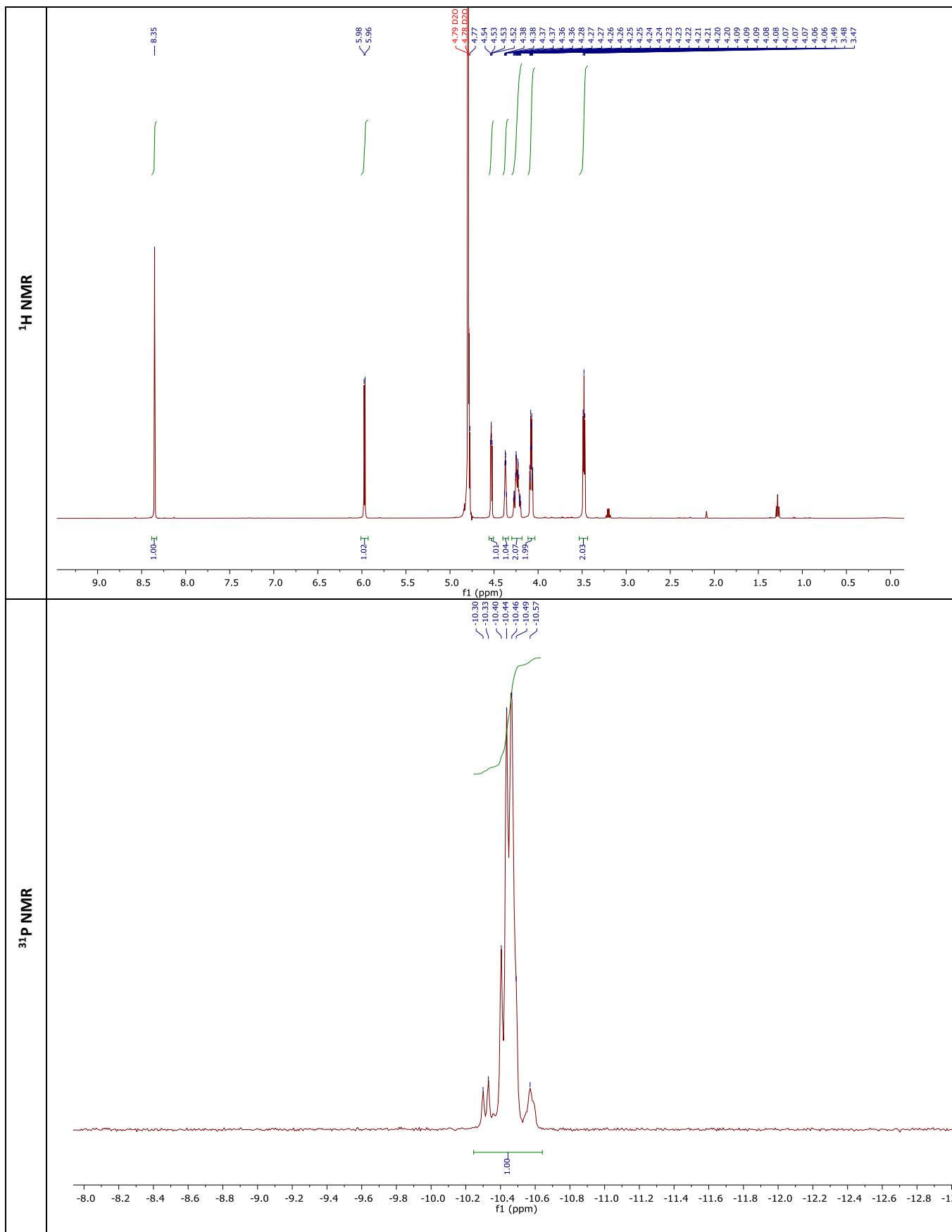




(6b) GppOC₂H₄N₃







(7) O-(2-azidoethyl) phosphate ester

