Electronic Supplementary Material (ESI) for Polymer Chemistry

SUPPORTING INFORMATION

Disulfide bridge based conjugation of peptides to RAFT polymers

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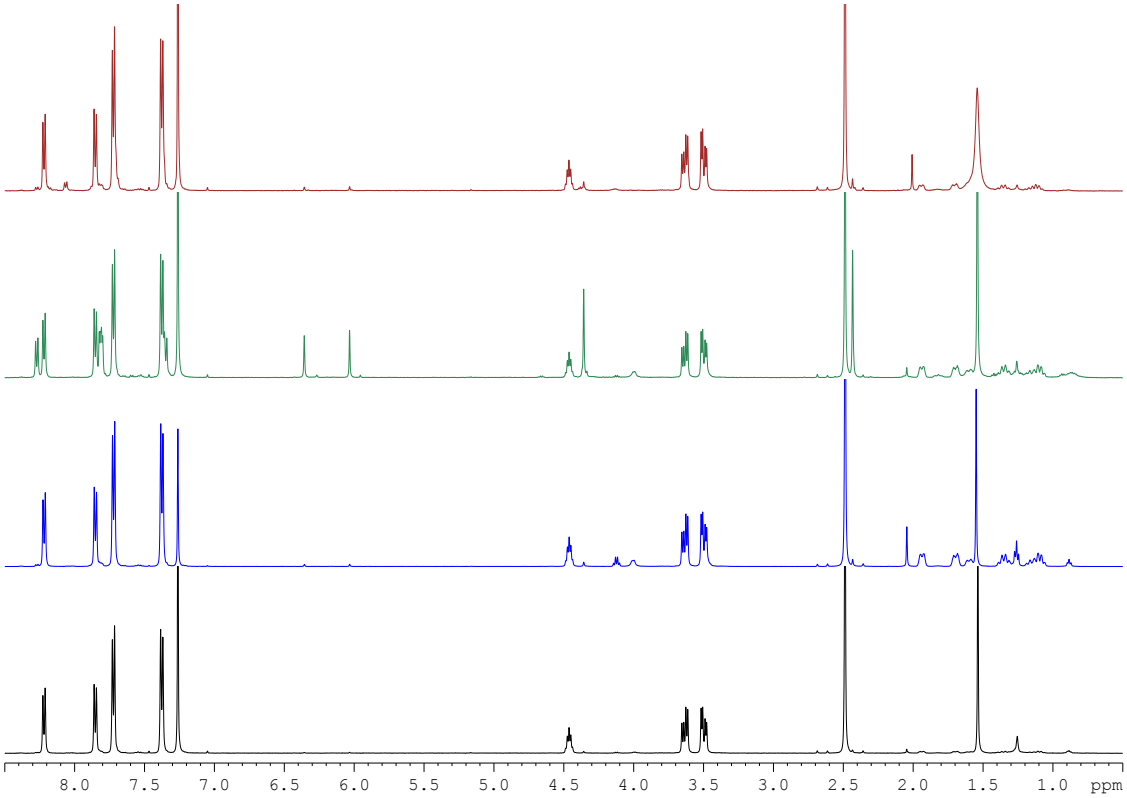


Figure S1: P1H-NMR spectra of pentafluorophenyl- 4-(2,2-bis[(p-tolylsulfonyl)methyl]acetyl) benzoate **4** from top to bottom: crude product (red), after column purification (green), after recrystallization (blue), after further treatment (black).

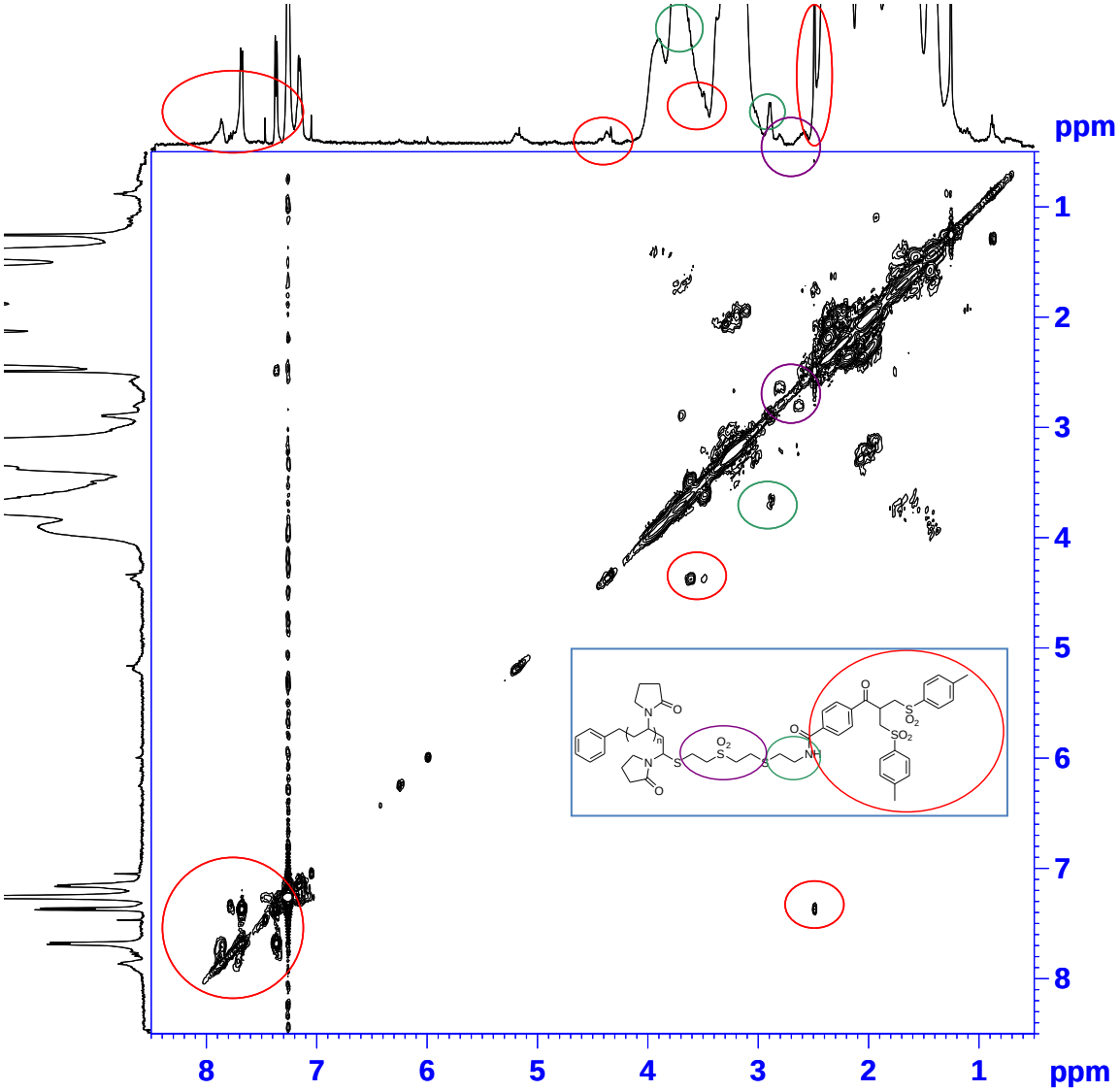


Figure S2: 1H-COSY NMR of PVP with reactive bisulfone functionality **10** in $CDCl_3$.

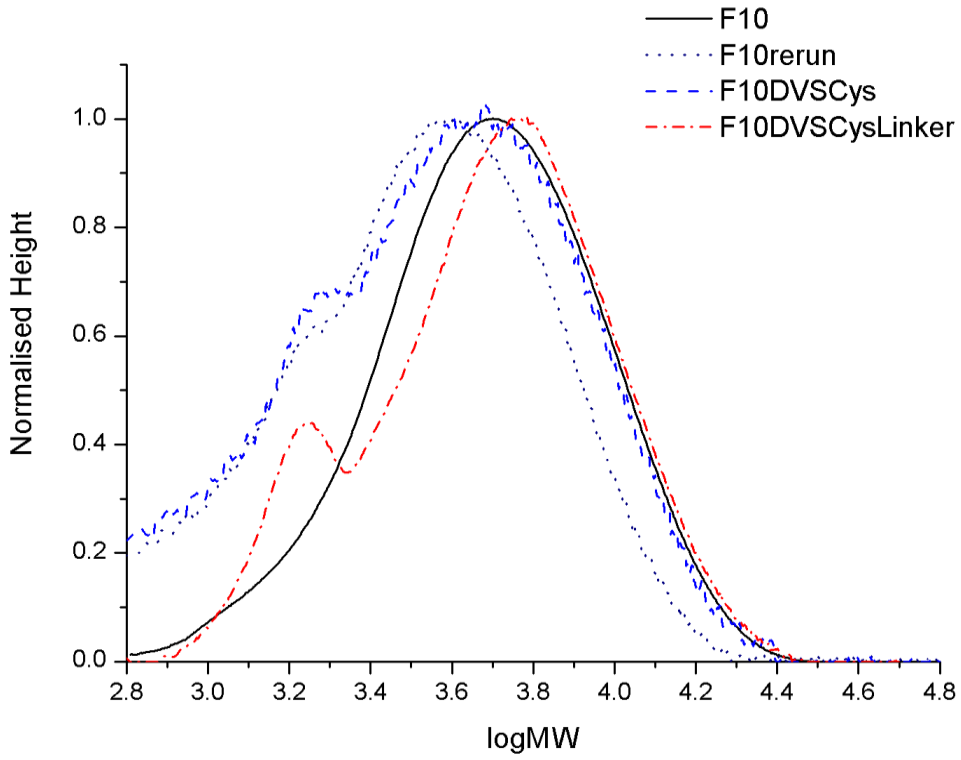
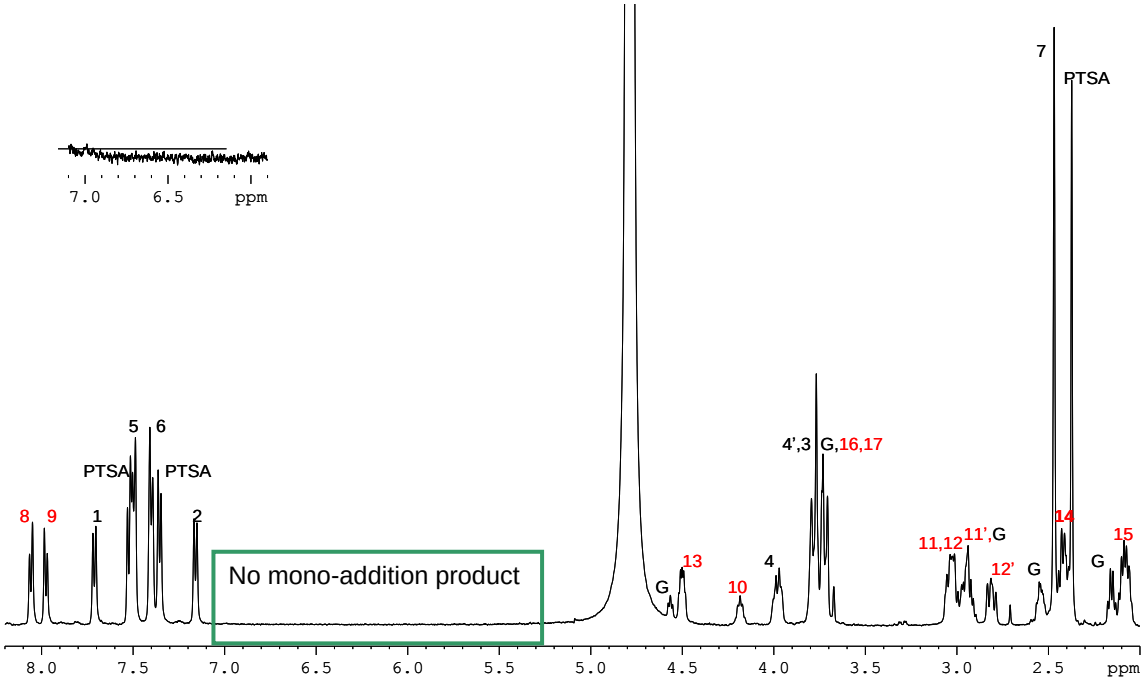
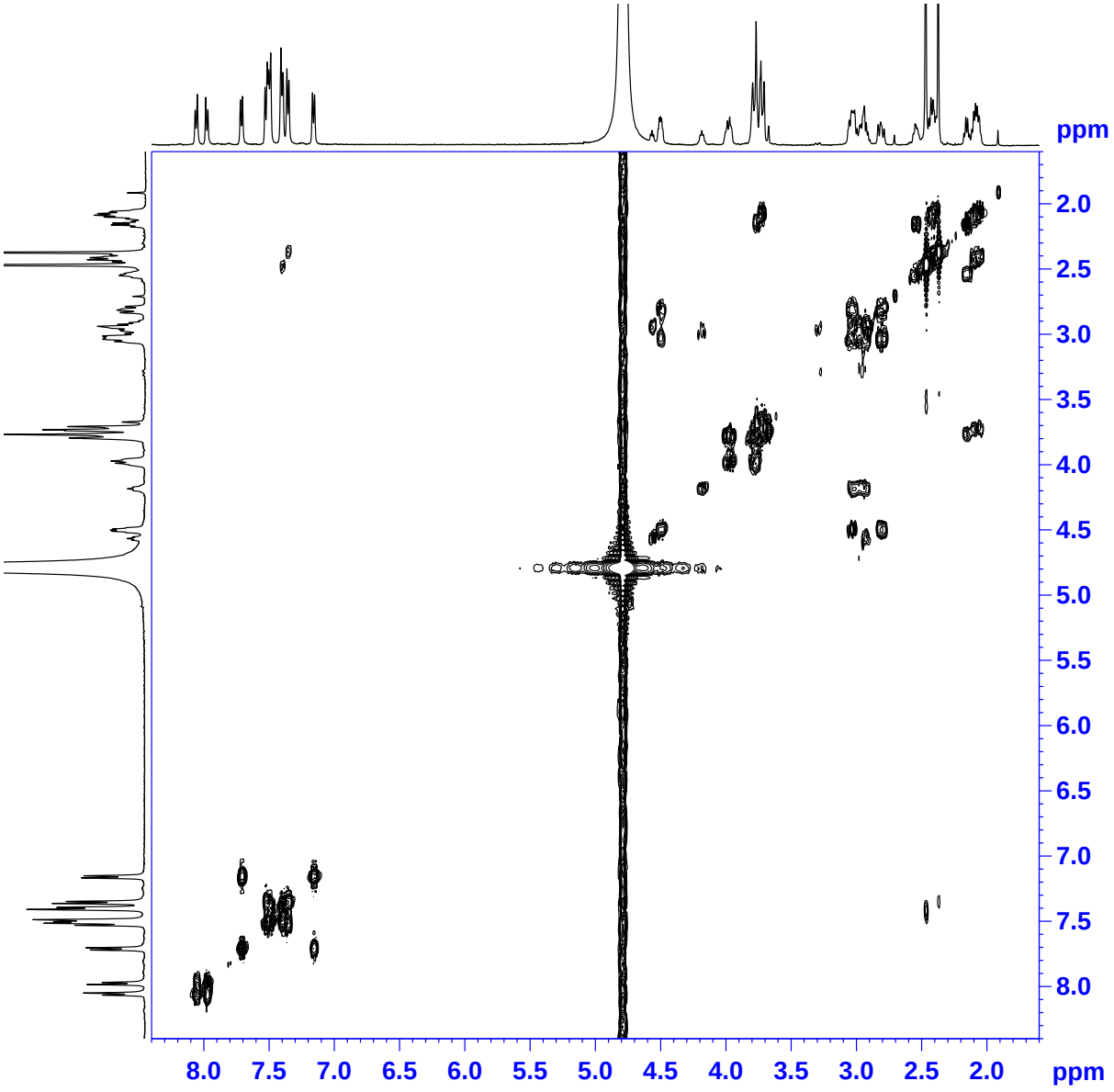


Figure S3. GPC traces for PVP (Mn(NMR)=6,000 g mol-1) (solid and dotted), PVPDVSCys **9** (blue) and PVP-DVSCysLinker **10** (red). Non-solid lines were analysed simultaneously and a system contaminant is present a logMW 3.2 (approx).





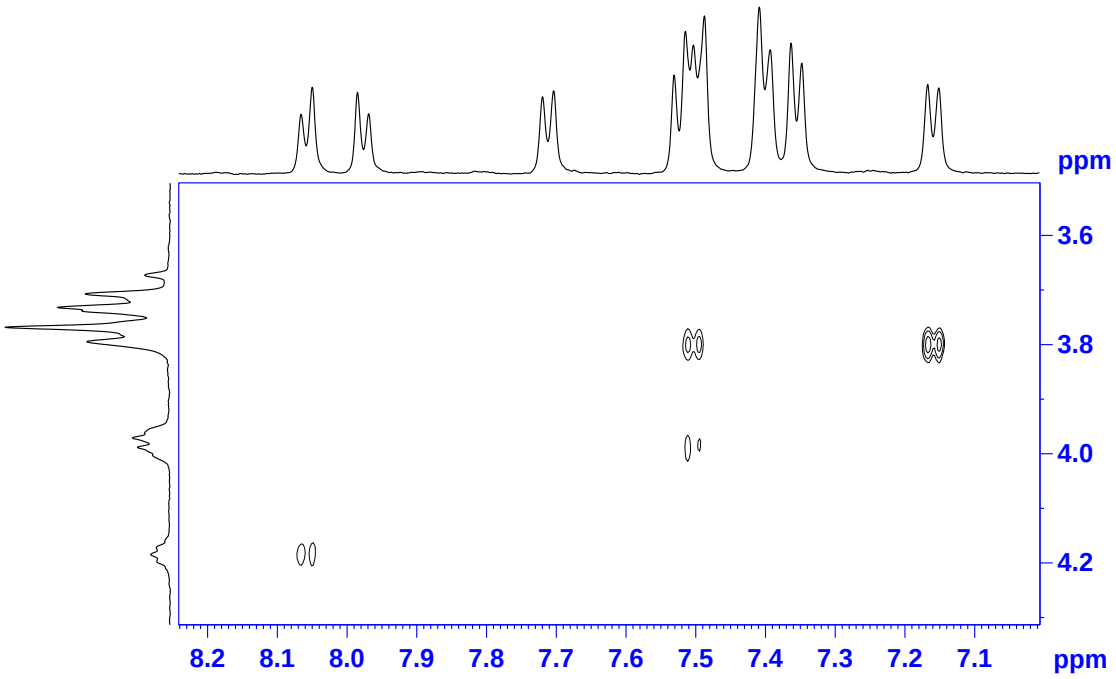


Figure S4. NMR spectrum of Glutathione reaction with acid linker (1H (top), COSY (middle), NOESY (bottom)).

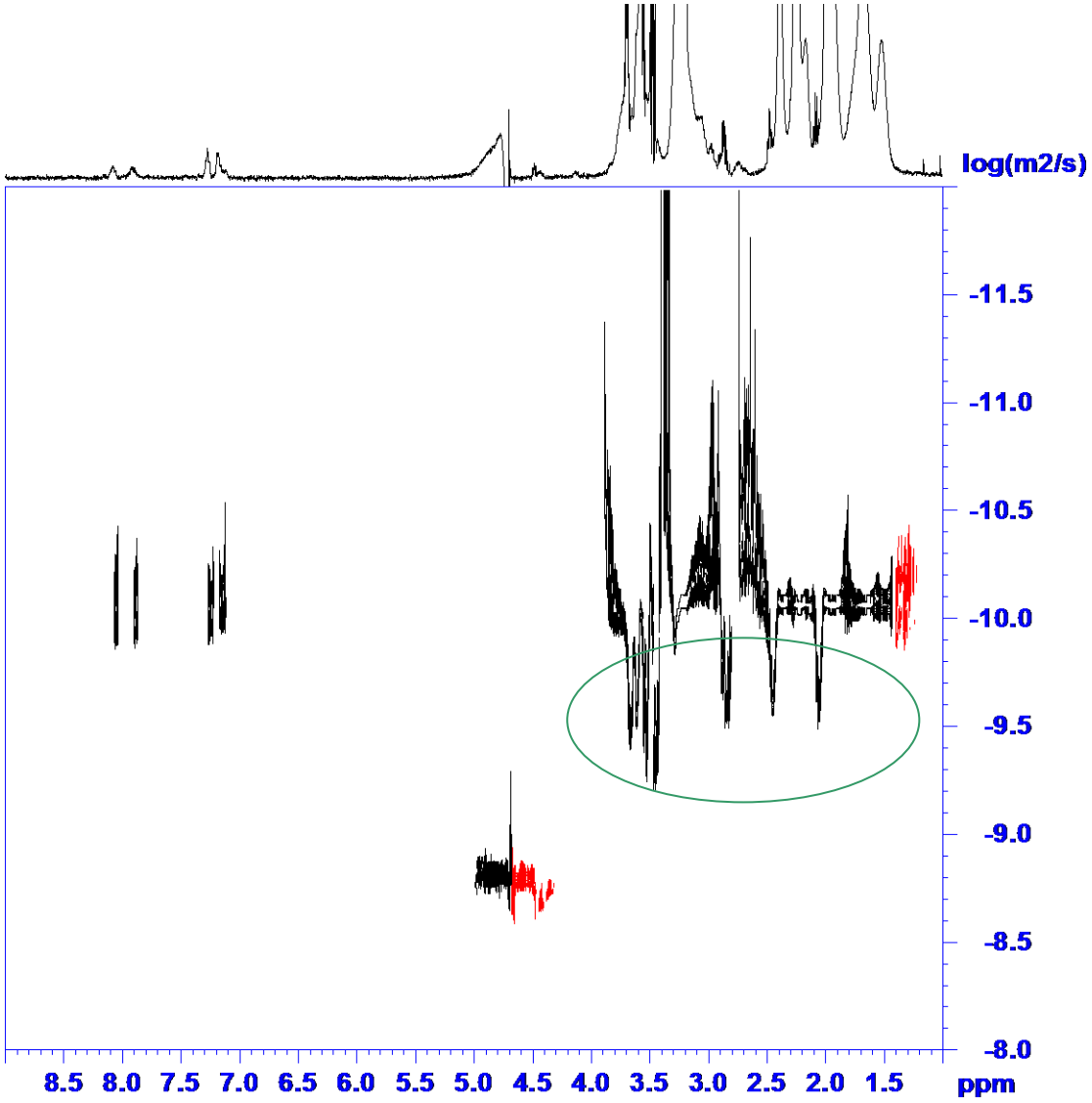


Figure S5. DOSY of glutathione reaction, D_2O (note: some unremoved glutathione and glycerol contamination from Amicon® tube is present, circled)

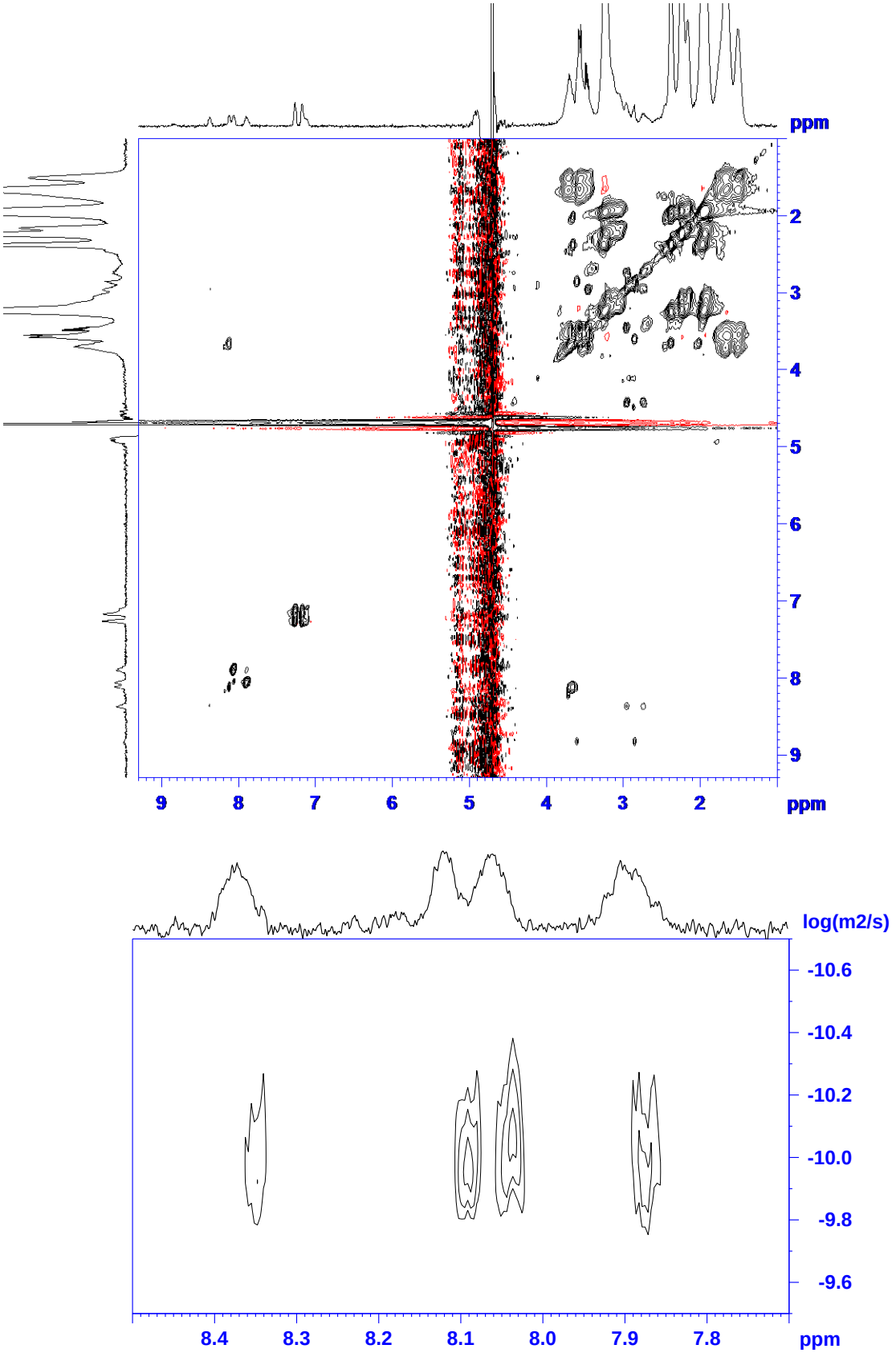


Figure S6. Water suppressed NMR spectra of further purified PVP-DVSCysLinkerGlutathione in H_2O/10%D_2O; TOCSY and DOSY

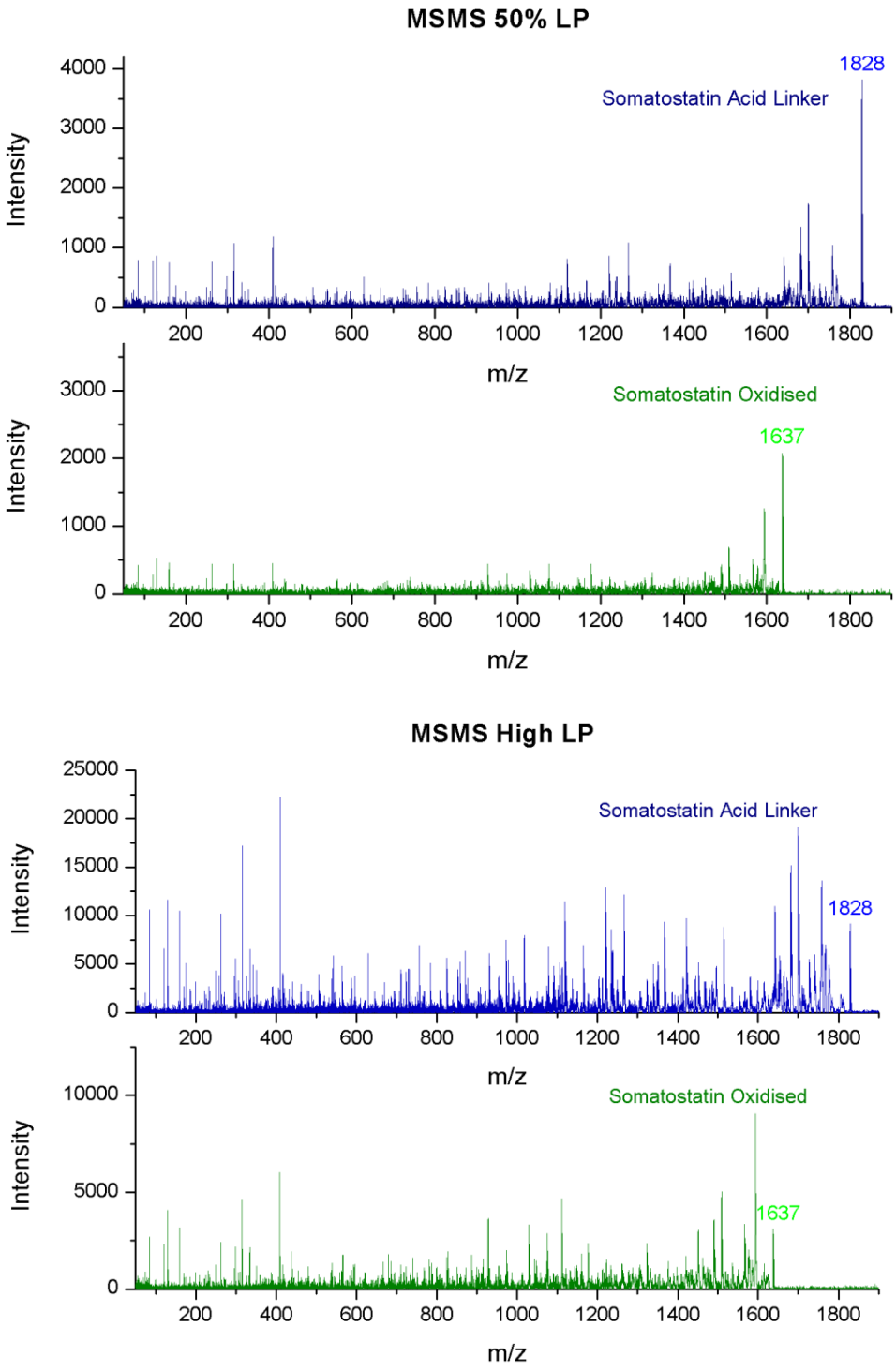


Figure S7. MSMS on acid linker somatostatin 1828m/z and oxidised somatostatin 1637m/z at a) 50% laser power; b) high laser power.