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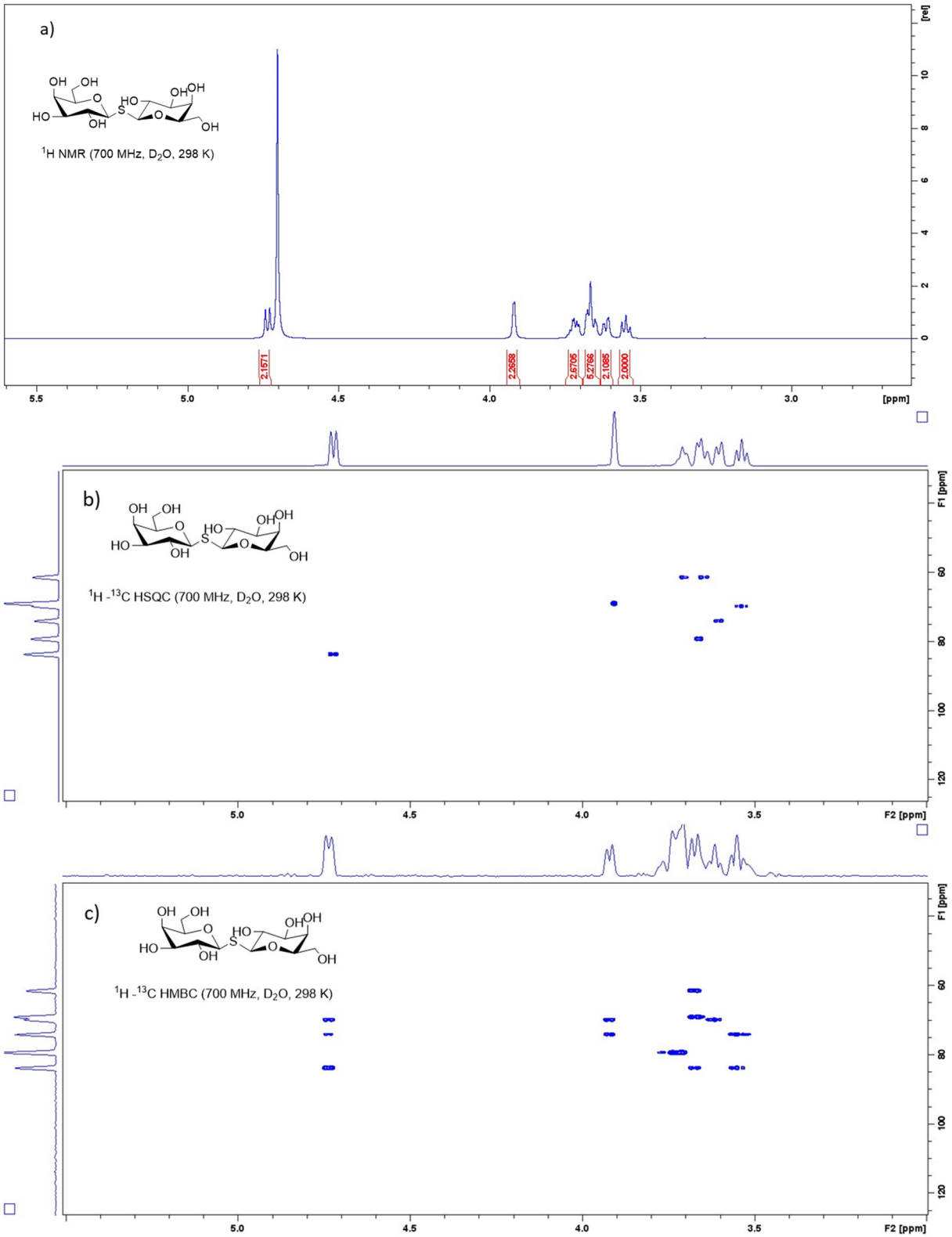
1D and 2D NMR spectra of synthesised compounds (1) – (5).

Figure S1. ^{1}H (a), ^{1}H-^{13}C HSQC (b), ^{1}H-^{13}C HMBC (c), ^{1}H-^{13}C HSQC-CLIP-COSY (d) NMR spectra of (**5**)



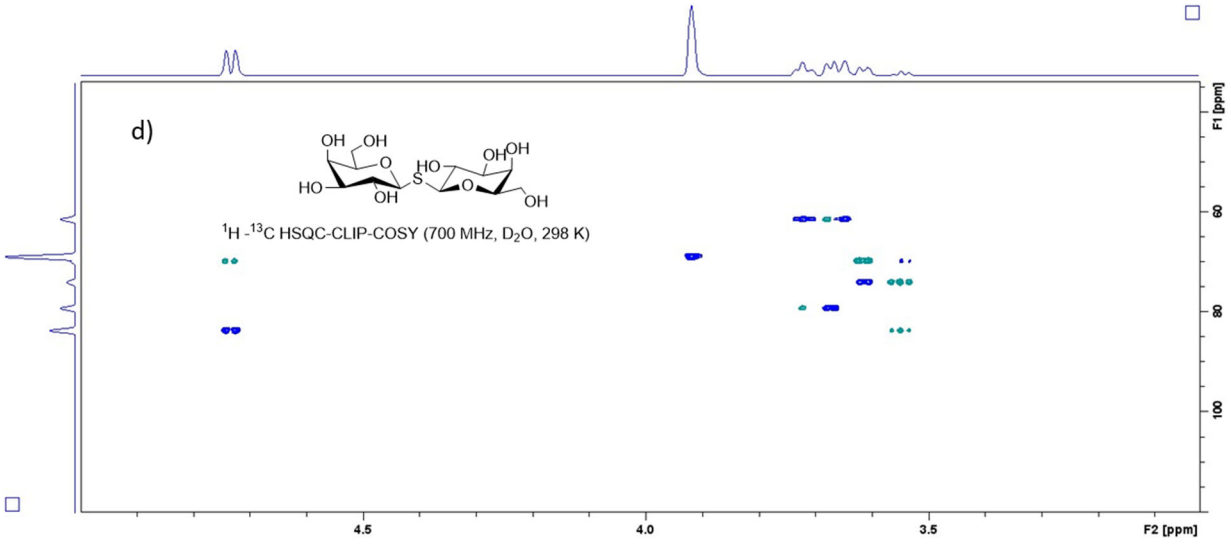
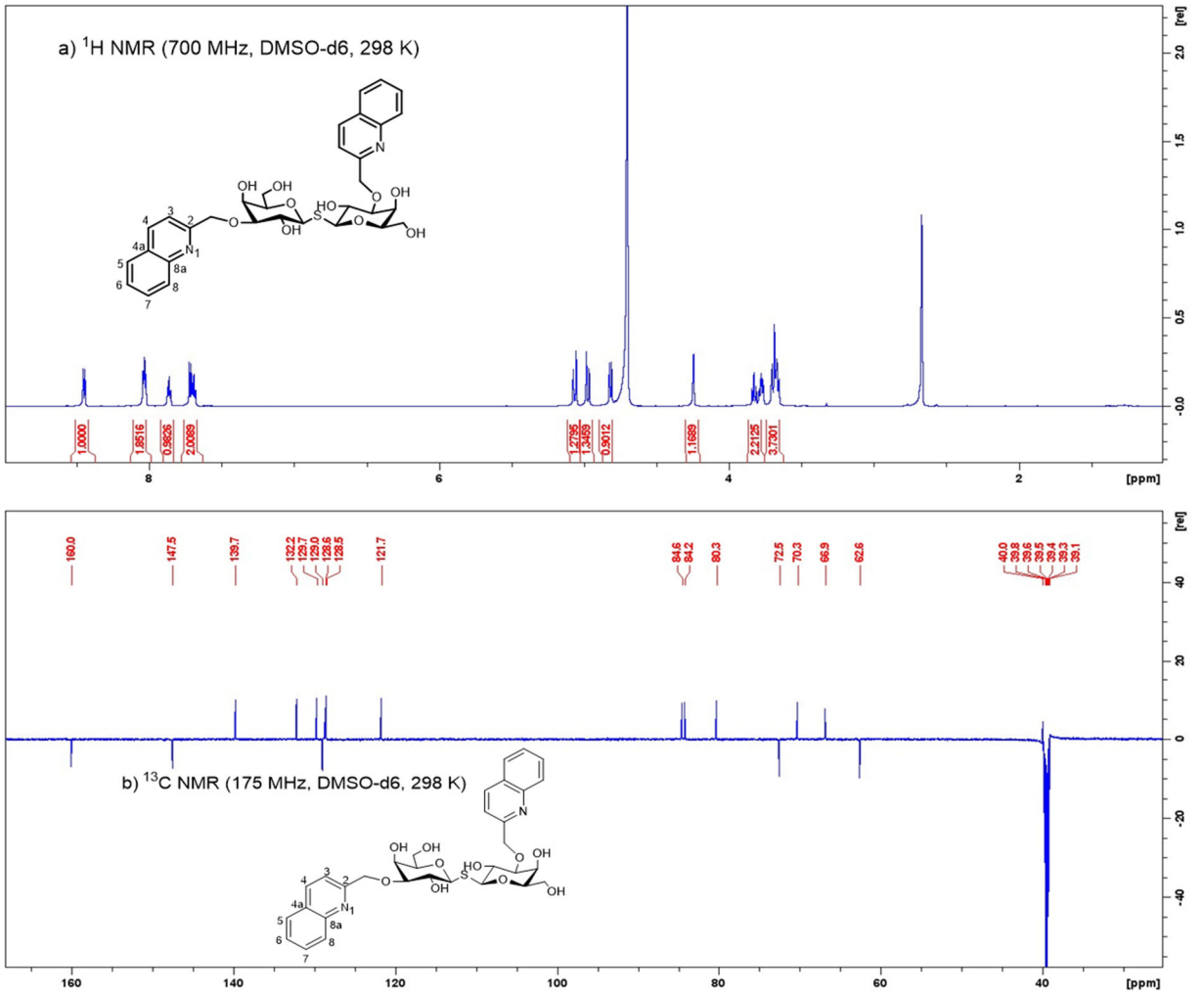
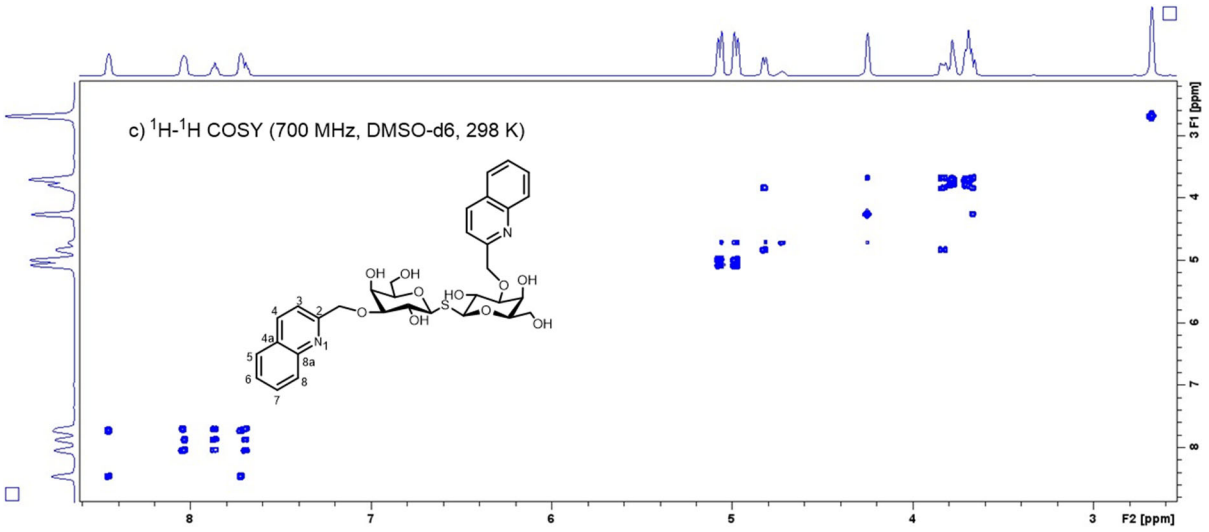
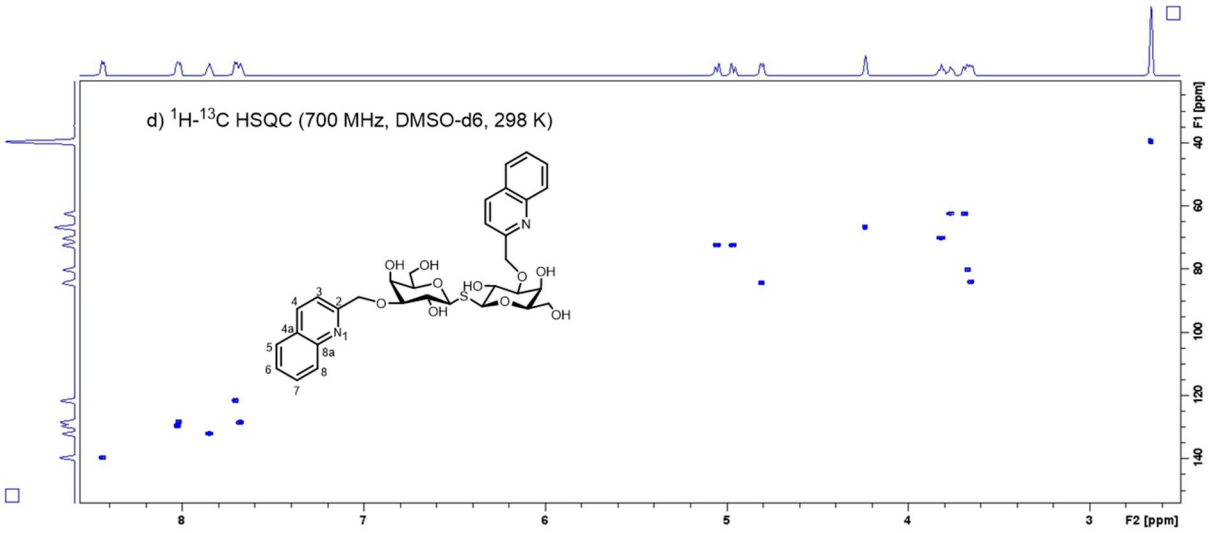
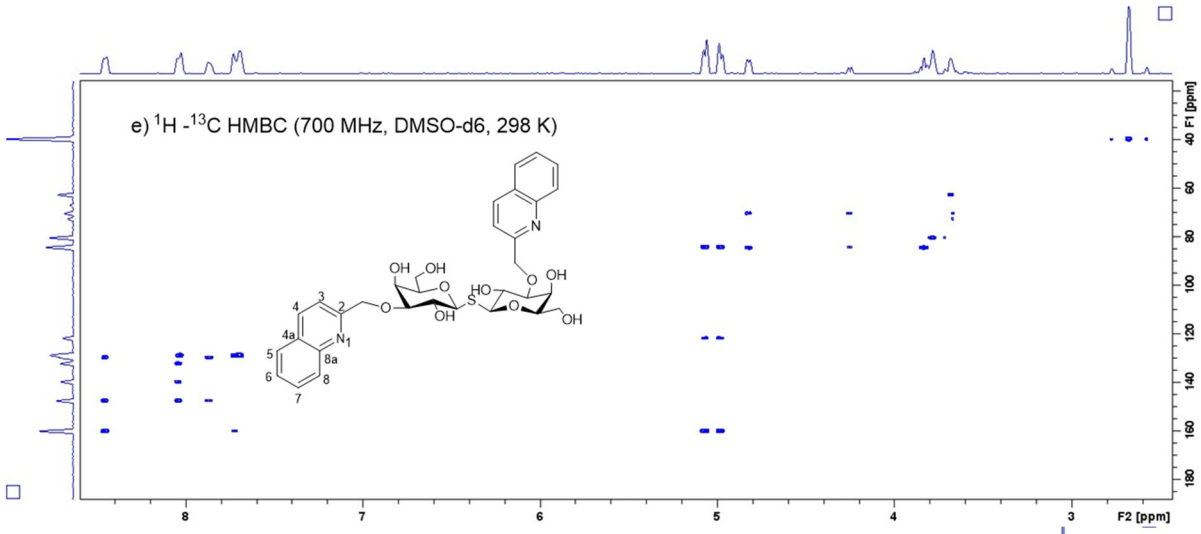


Figure S2. ^{1}H (a), *J*-modulated ^{13}C (b), ^{1}H-^{1}H COSY (c), ^{1}H-^{13}C HSQC (d), ^{1}H-^{13}C HMBC (e), ^{1}H-^{13}C HSQC-CLIP-COSY (f) NMR spectra of (**1**)




c) ^{1}H-^{1}H COSY (700 MHz, DMSO-d6, 298 K)
F2 [ppm]
F1 [ppm]


d) ^{1}H-^{13}C HSQC (700 MHz, DMSO-d6, 298 K)
F2 [ppm]
F1 [ppm]


e) ^{1}H -^{13}C HMBC (700 MHz, DMSO-d6, 298 K)
F1 [ppm]
F2 [ppm]

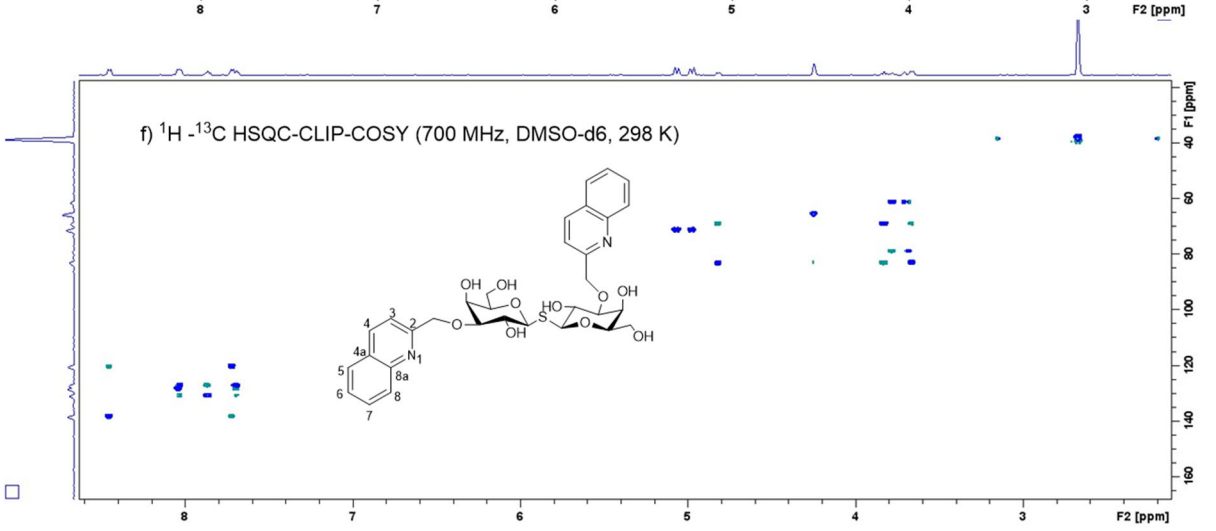
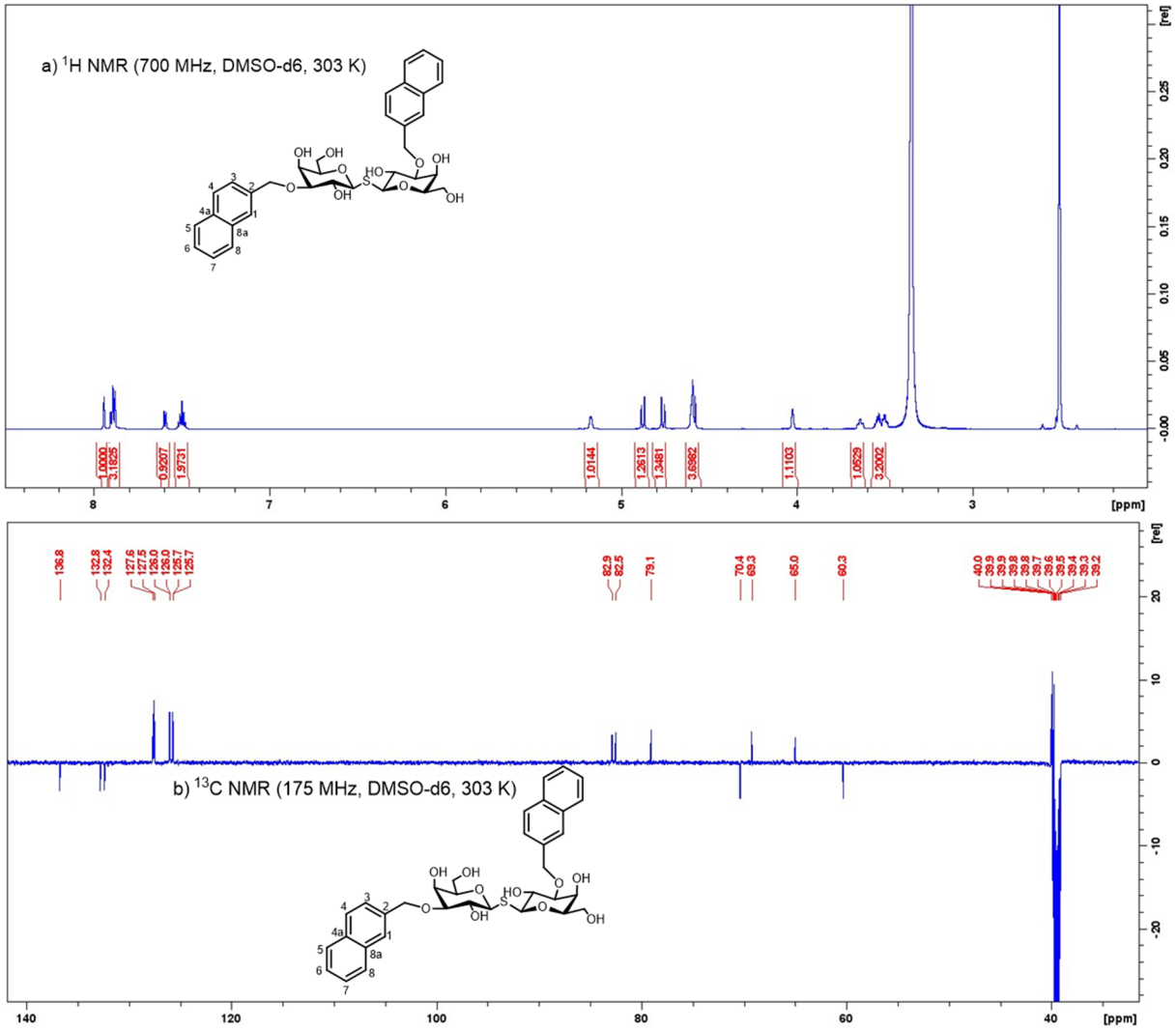
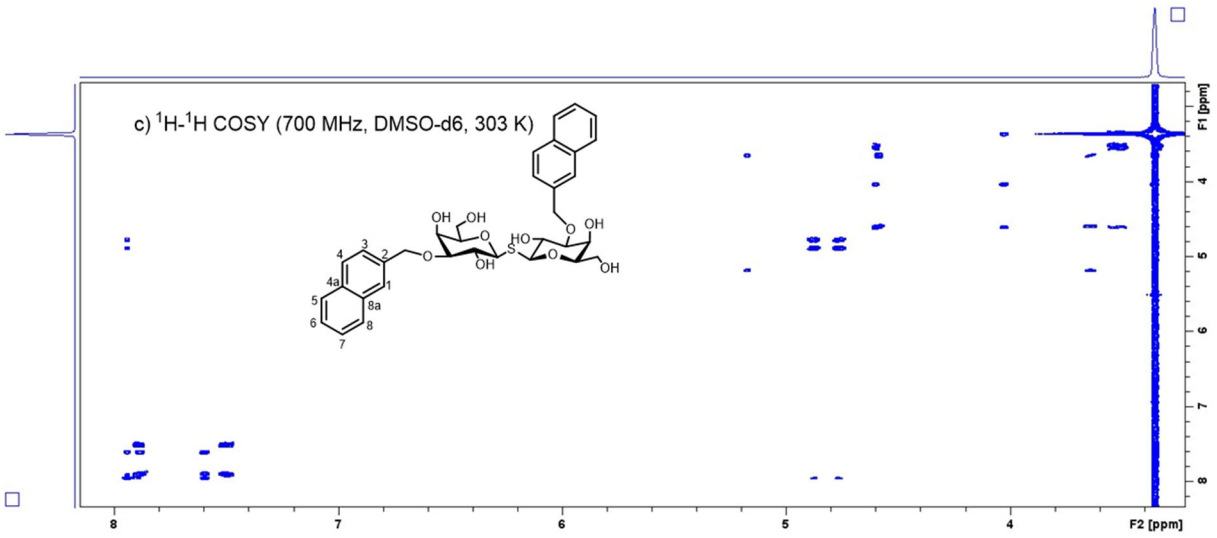
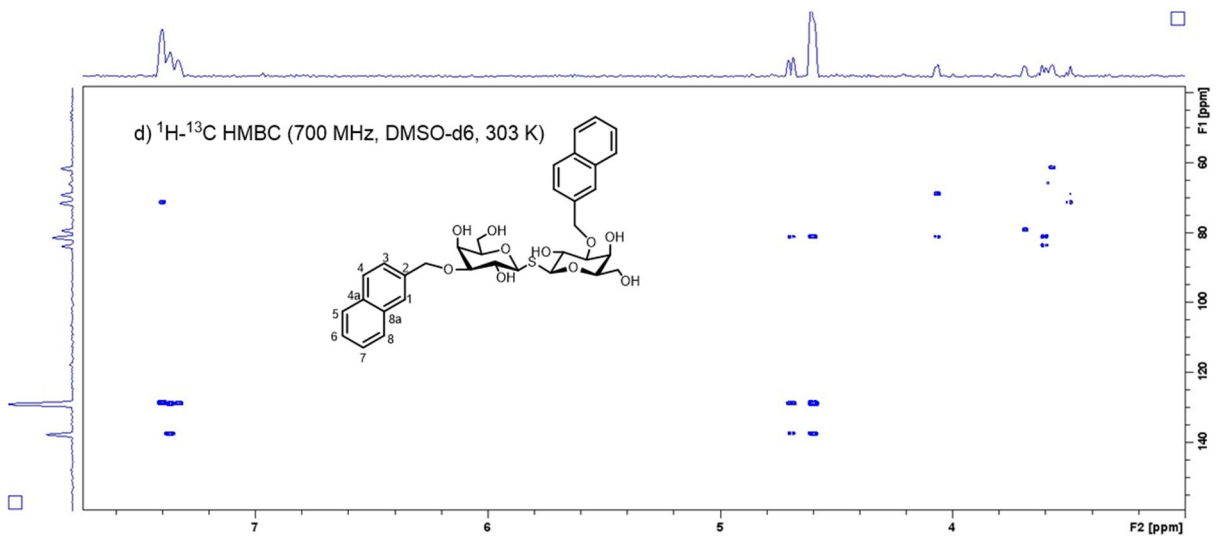

f) ^{1}H -^{13}C HSQC-CLIP-COSY (700 MHz, DMSO-d6, 298 K)
F1 [ppm]
F2 [ppm]

Figure S3. ^{1}H (a), *J*-modulated ^{13}C (b), ^{1}H-^{13}C COSY (c) ^{1}H-^{13}C HMBC (d), ^{1}H-^{13}C HSQC-CLIP-COSY (e) NMR spectra of (**2**)




c) ^{1}H-^{1}H COSY (700 MHz, DMSO-d6, 303 K)
F1 [ppm]
F2 [ppm]


d) ^{1}H-^{13}C HMBC (700 MHz, DMSO-d6, 303 K)
F1 [ppm]
F2 [ppm]

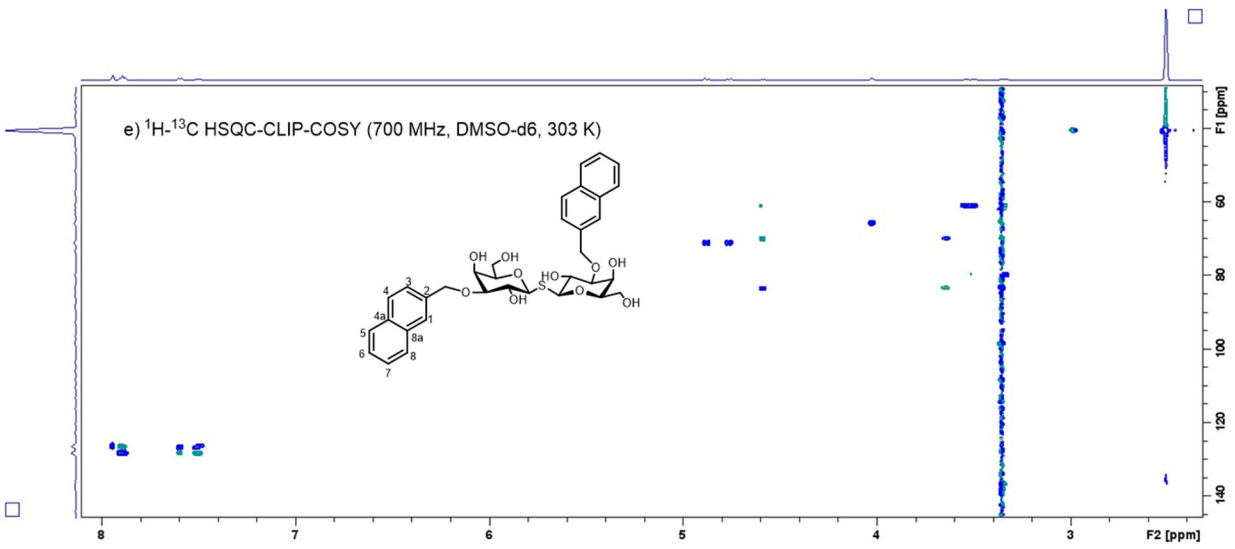
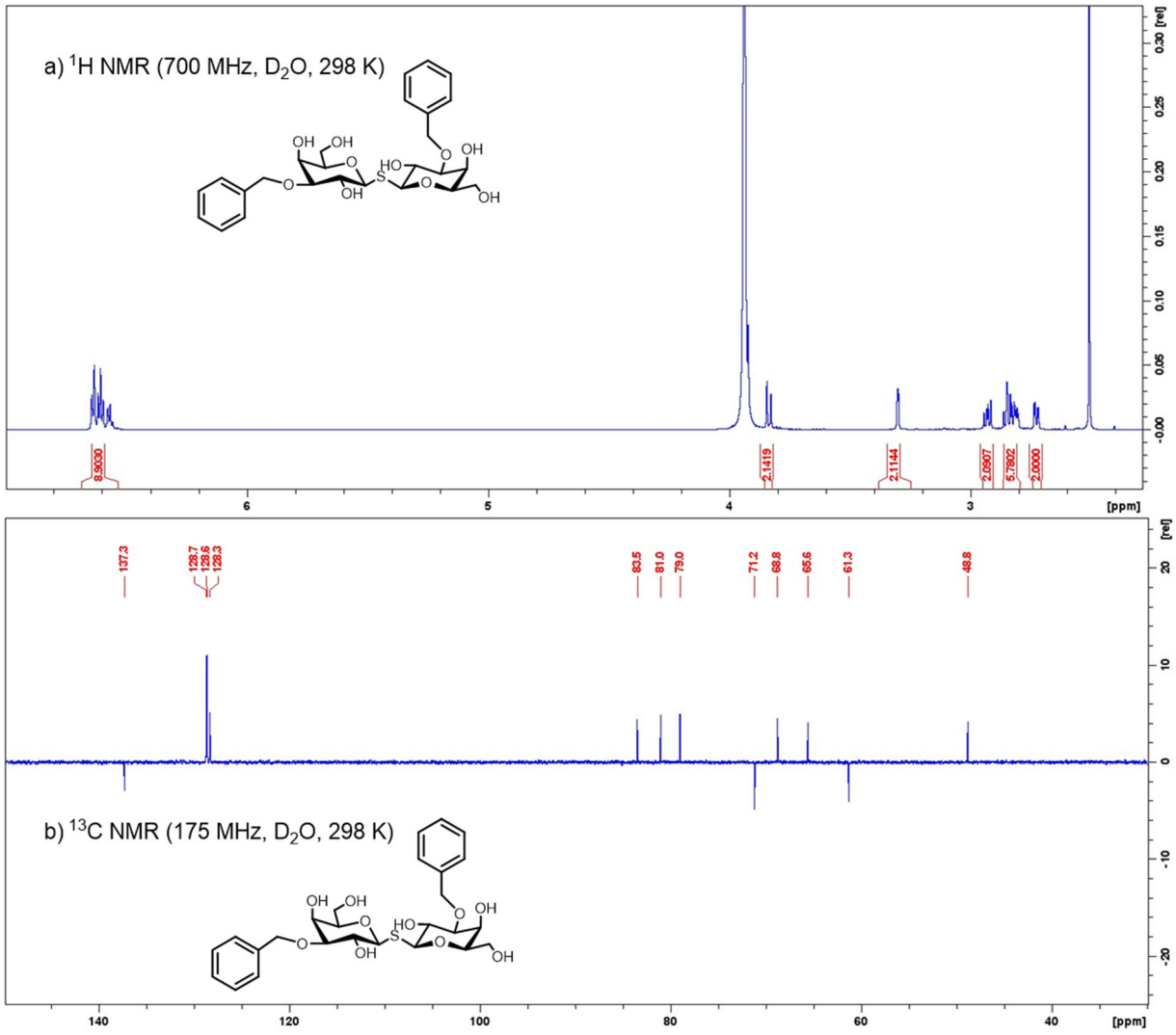
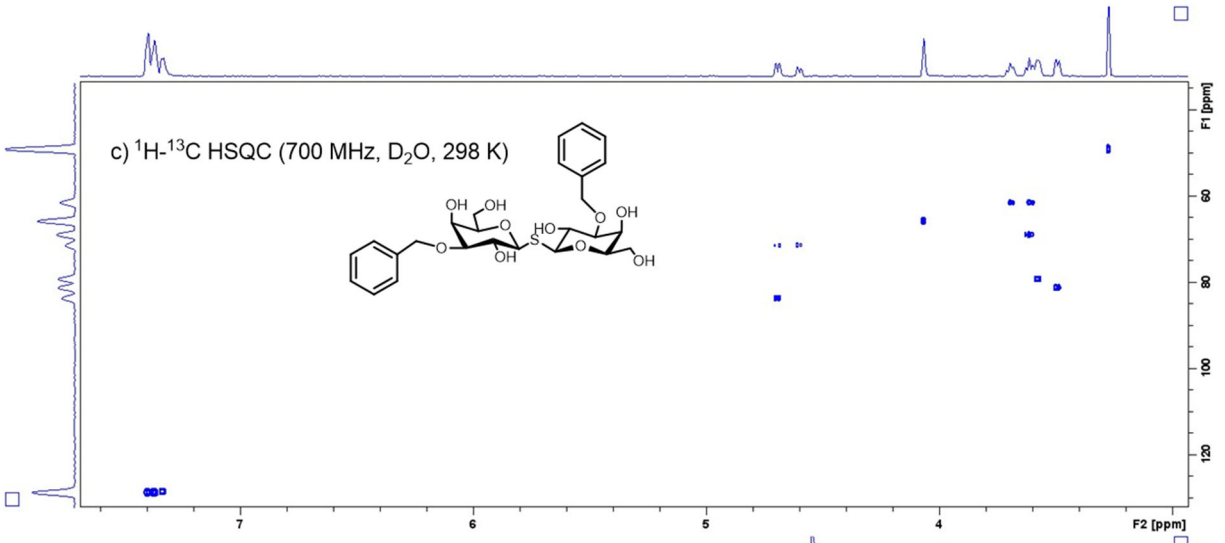
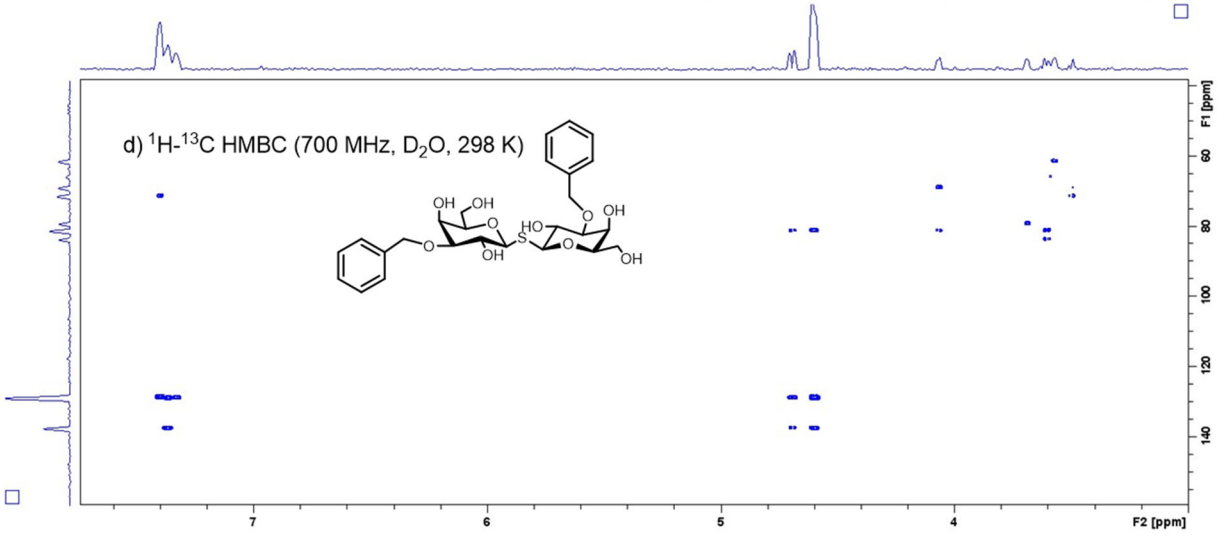

e) ^{1}H-^{13}C HSQC-CLIP-COSY (700 MHz, DMSO-d6, 303 K)
F1 [ppm]
F2 [ppm]

Figure S4. ^{1}H (a), *J*-modulated ^{13}C (b), ^{1}H-^{13}C HSQC (c) ^{1}H-^{13}C HMBC (d), ^{1}H-^{13}C HSQC-CLIP-COSY (e) spectra of (**3)**




c) ^{1}H-^{13}C HSQC (700 MHz, D_2O, 298 K)
F1 [ppm]
F2 [ppm]


d) ^{1}H-^{13}C HMBC (700 MHz, D_2O, 298 K)
F1 [ppm]
F2 [ppm]

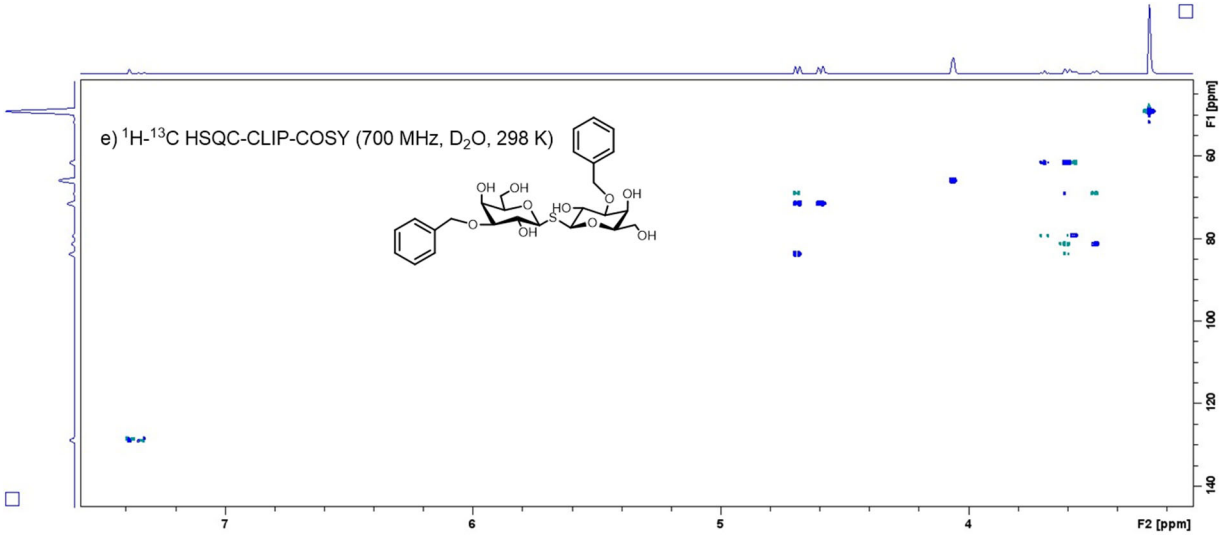
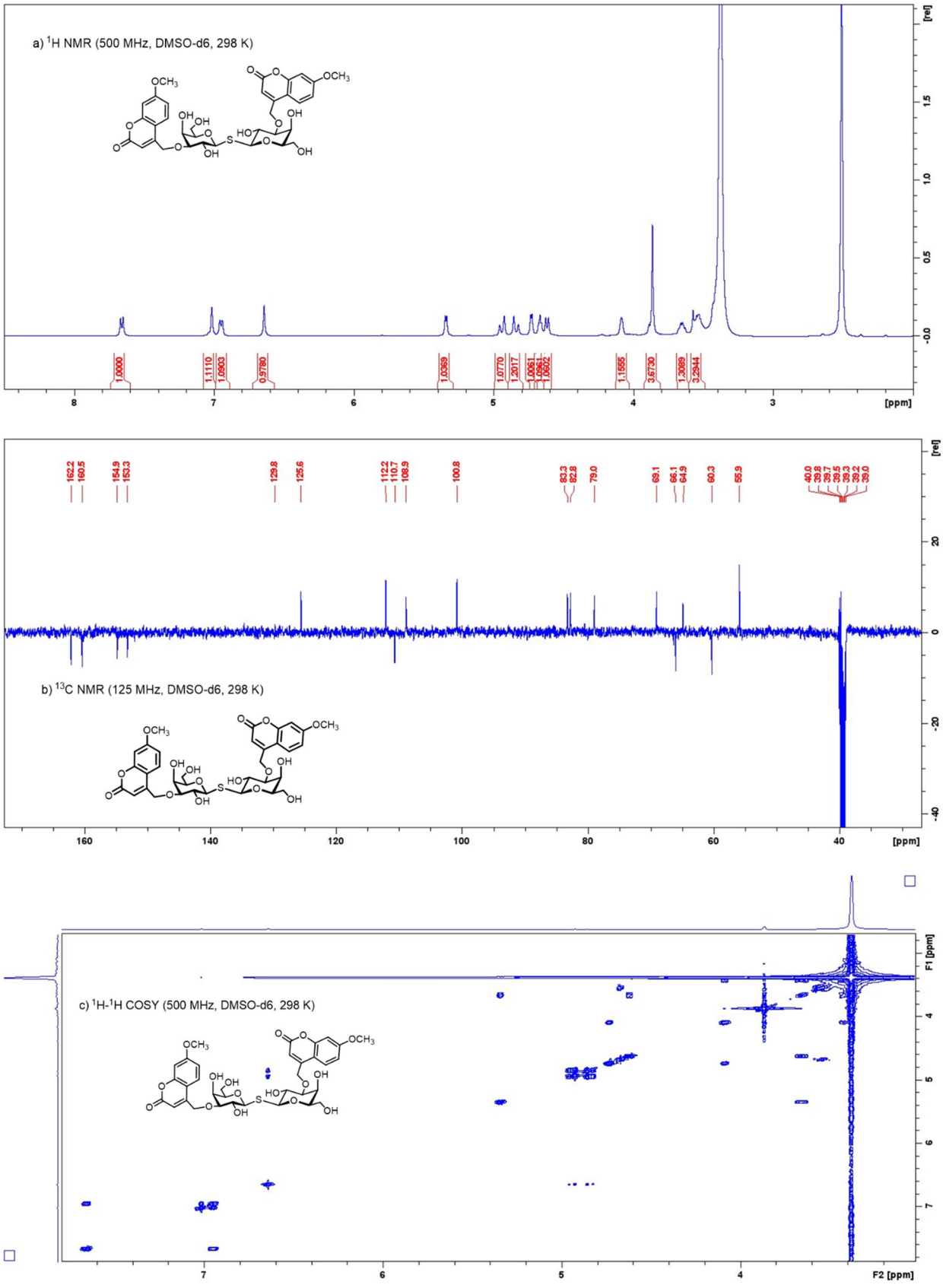
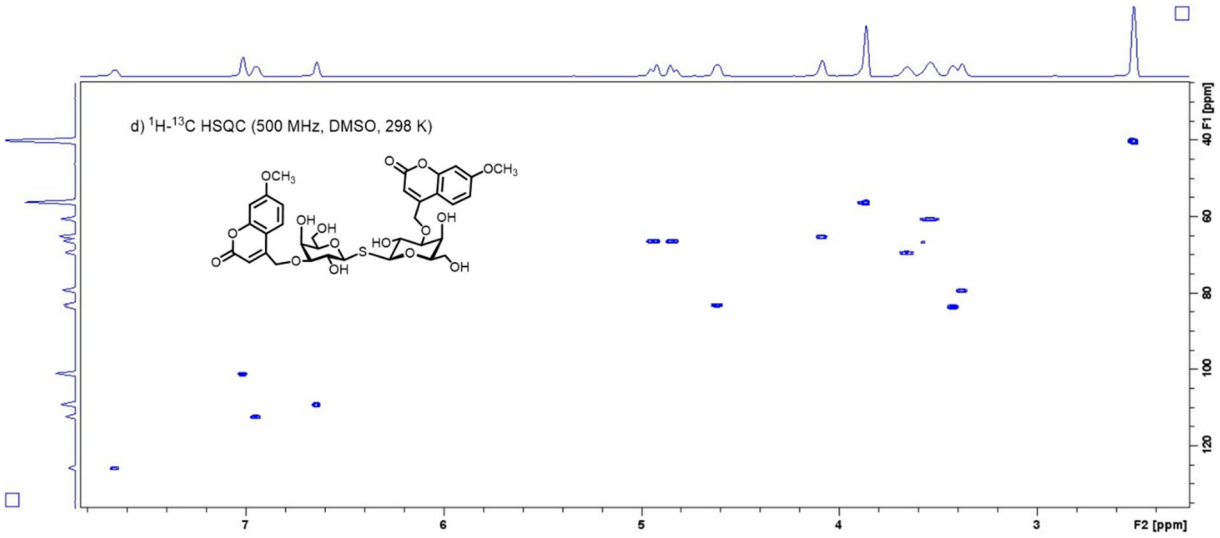

e) ^{1}H-^{13}C HSQC-CLIP-COSY (700 MHz, D_2O, 298 K)
F1 [ppm]
F2 [ppm]

Figure S5. ^{1}H (a), *J*-modulated ^{13}C (b), ^{1}H-^{1}H COSY (c), ^{1}H-^{13}C HSQC (d) NMR spectra of (**4**)




d) ^{1}H-^{13}C HSQC (500 MHz, DMSO, 298 K)
OCH3
OH
OH
O
O
O
S
HO
OH
OH
OCH3
O
O
O
OH
F1 [ppm]
40
60
80
100
120
7
6
5
4
3
F2 [ppm]