

Supplementary Material

Synthesis of pyridocoumarin β -glycosides with possible biological activity[¶]

Christos Christou^a, Ioannis Pavlou^a(in part), Ioanna Sigala^b, Eleni Nikolakaki^b, Dimitra J. Hadjipavlou-Litina^c, and Konstantinos E. Litinas^{a,*}

^a Laboratory of Organic Chemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece

^b Laboratory of Biochemistry, Department of Chemistry, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece

^c Department of Pharmaceutical Chemistry, School of Pharmacy, Faculty of Health Sciences, Aristotle University of Thessaloniki, Thessaloniki 54124, Greece

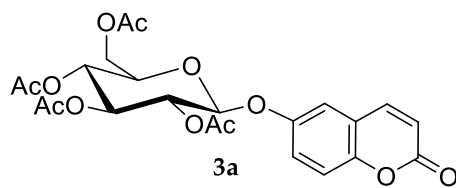
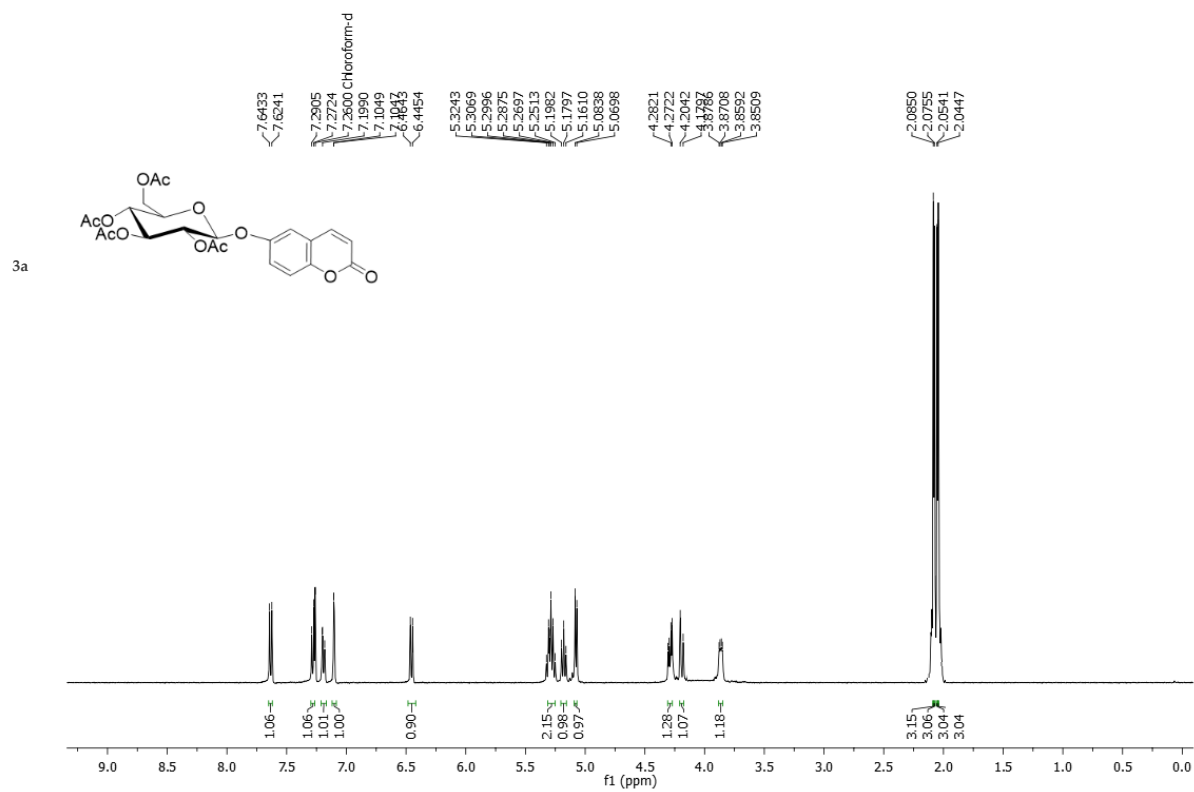
Email: klitinas@chem.auth.gr

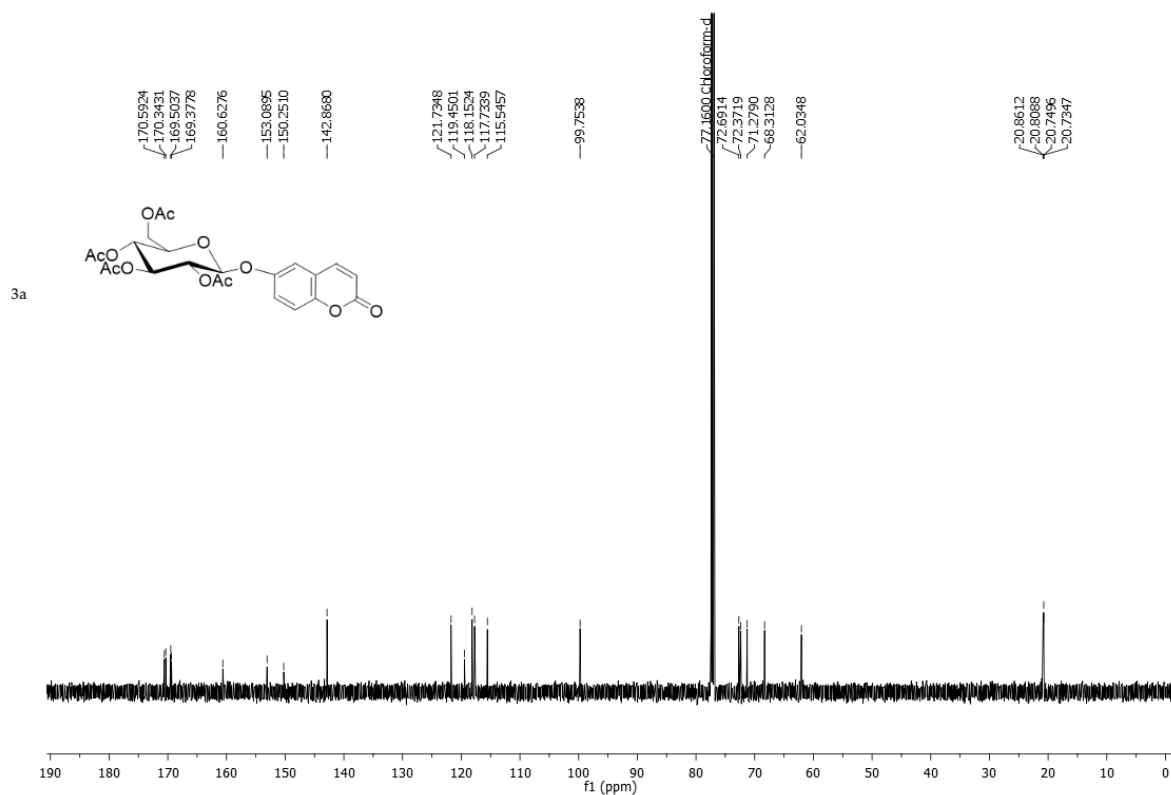
Table of Contents

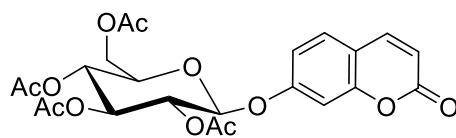
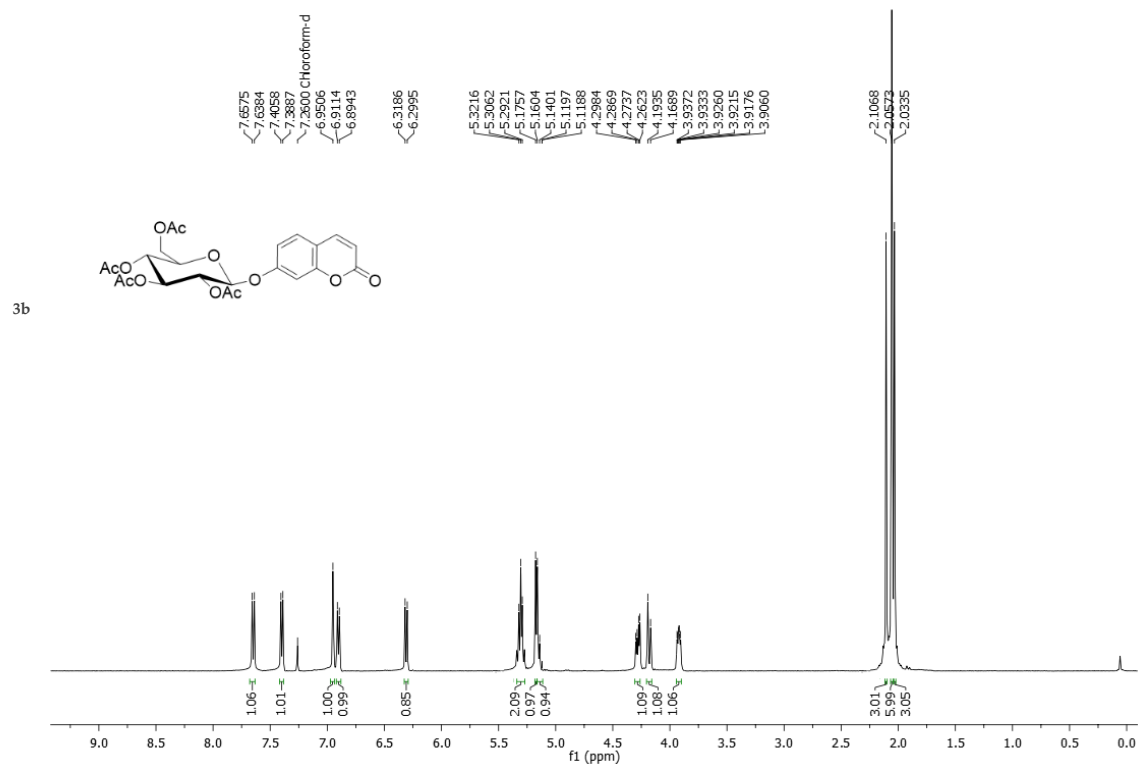
¹H-NMR and ¹³C-NMR Spectra for the compounds:

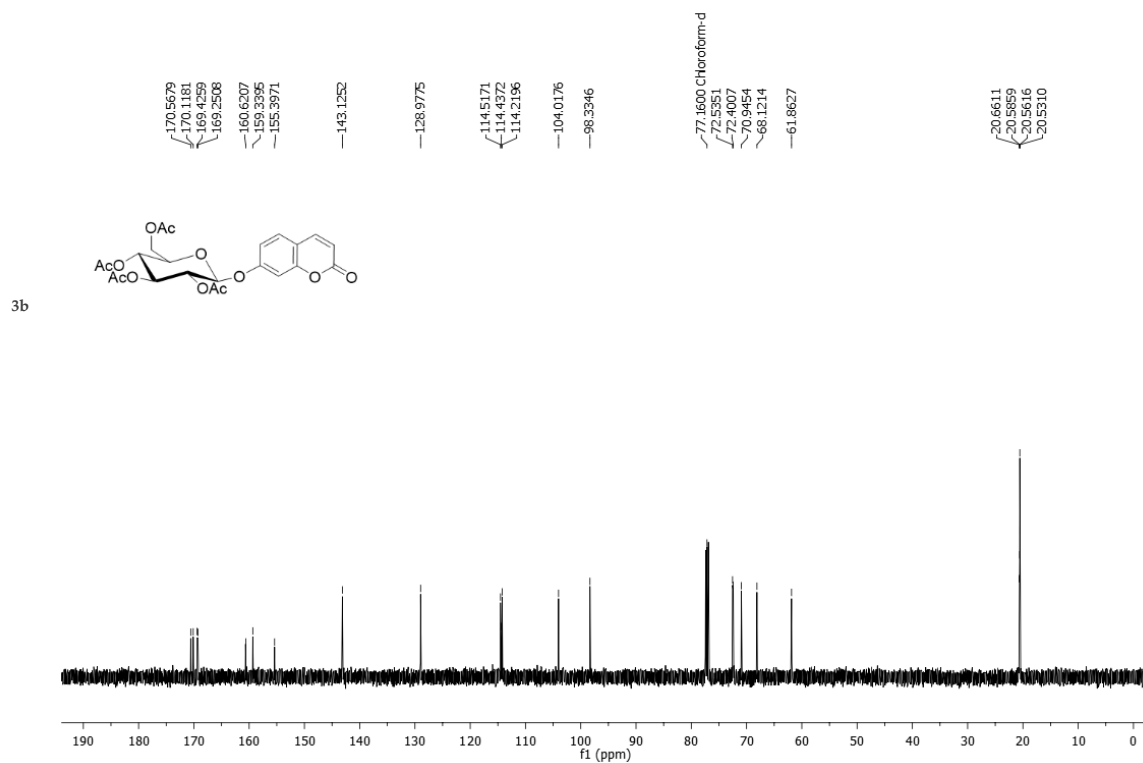
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3a)	S3
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-7-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3b)	S5
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-8-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3c)	S7
(2R,3S,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3d)	S9
(2R,3S,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-7-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3e)	S11
(2R,3S,4S,5R,6S)-2-(Acetoxymethyl)-6-((2-oxo-2H-chromen-8-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (3f)	S13
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((8-methyl-3-oxo-3H-pyrano[3,2-f]quinolin-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (5a)	S15
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((1,8-dimethyl-3-oxo-3H-pyrano [3,2-f]quinolin-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (5b)	S17
(2R,3S,4S,5R,6S)-2-(Acetoxymethyl)-6-((8-methyl-3-oxo-3H-pyrano[3,2-f]quinolin-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (5c)	S19
(2R,3S,4S,5R,6S)-2-(Acetoxymethyl)-6-((1,8-dimethyl-3-oxo-3H-pyrano[3,2-f]quinolin-6-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (5d)	S21
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((8-methyl-2-oxo-2H-pyrano[3,2-g]quinolin-10-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (7a)	S23
(2R,3R,4S,5R,6S)-2-(Acetoxymethyl)-6-((4,8-dimethyl-2-oxo-2H-pyrano[3,2-g] quinolin-10-yl)oxy)tetrahydro-2H-pyran-3,4,5-triyl triacetate (7b)	S25

(2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>S</i>)-2-(Acetoxymethyl)-6-((8-methyl-2-oxo-2 <i>H</i> -pyrano[3,2- <i>g</i>]quinolin-10-yl)oxy)tetrahydro-2 <i>H</i> -pyran-3,4,5-triyl triacetate (7c)	S27
(2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>S</i>)-2-(Acetoxymethyl)-6-((4,8-dimethyl-2-oxo-2 <i>H</i> -pyrano[3,2- <i>g</i>]quinolin-10-yl)oxy)tetrahydro-2 <i>H</i> -pyran-3,4,5-triyl triacetate (7d)	S29
(2 <i>R</i> ,3 <i>R</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>S</i>)-2-(Acetoxymethyl)-6-((8-dimethyl-2-oxo-2 <i>H</i> -pyrano[2,3- <i>f</i>]quinolin-6-yl)oxy) tetrahydro-2 <i>H</i> -pyran-3,4,5-triyl triacetate (9a)	S31
(2 <i>R</i> ,3 <i>S</i> ,4 <i>S</i> ,5 <i>R</i> ,6 <i>S</i>)-2-(Acetoxymethyl)-6-((8-methyl-2-oxo-2 <i>H</i> -pyrano[2,3- <i>f</i>]quinolin-6-yl)oxy)tetrahydro-2 <i>H</i> -pyran-3,4,5-triyl triacetate (9b)	S33

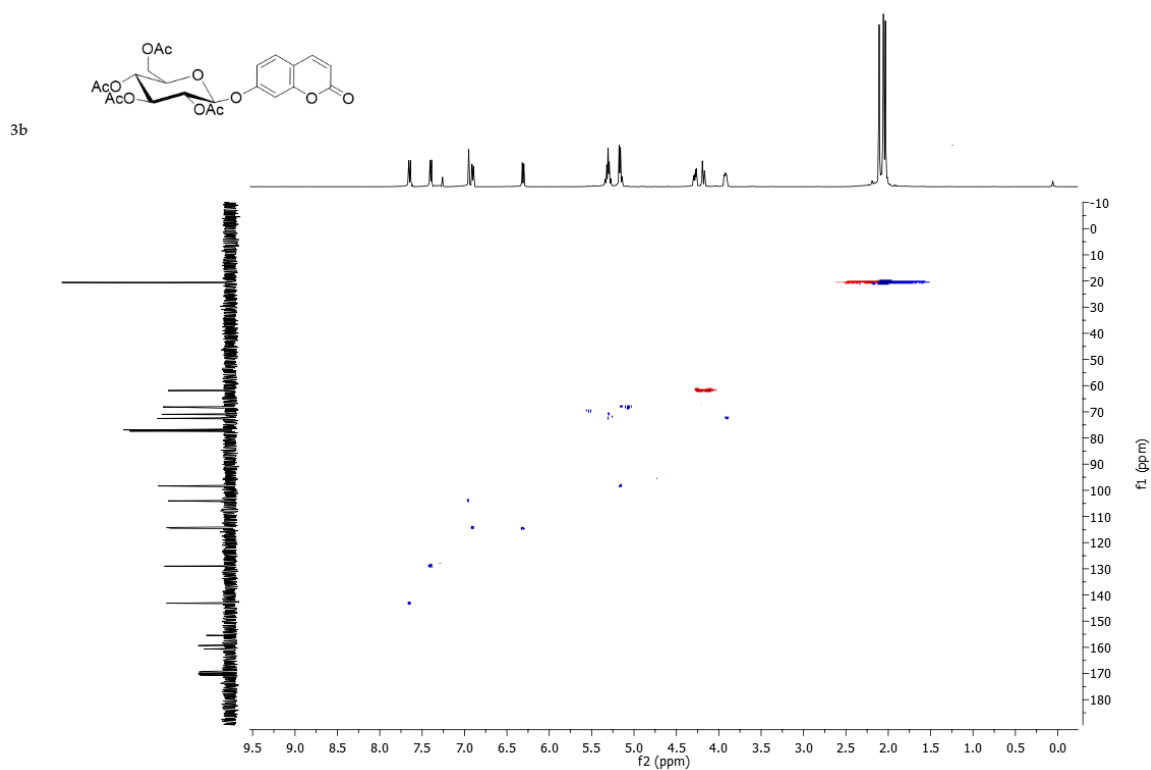
3a¹HNMR:

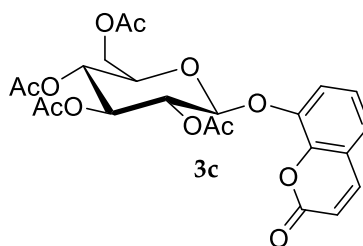
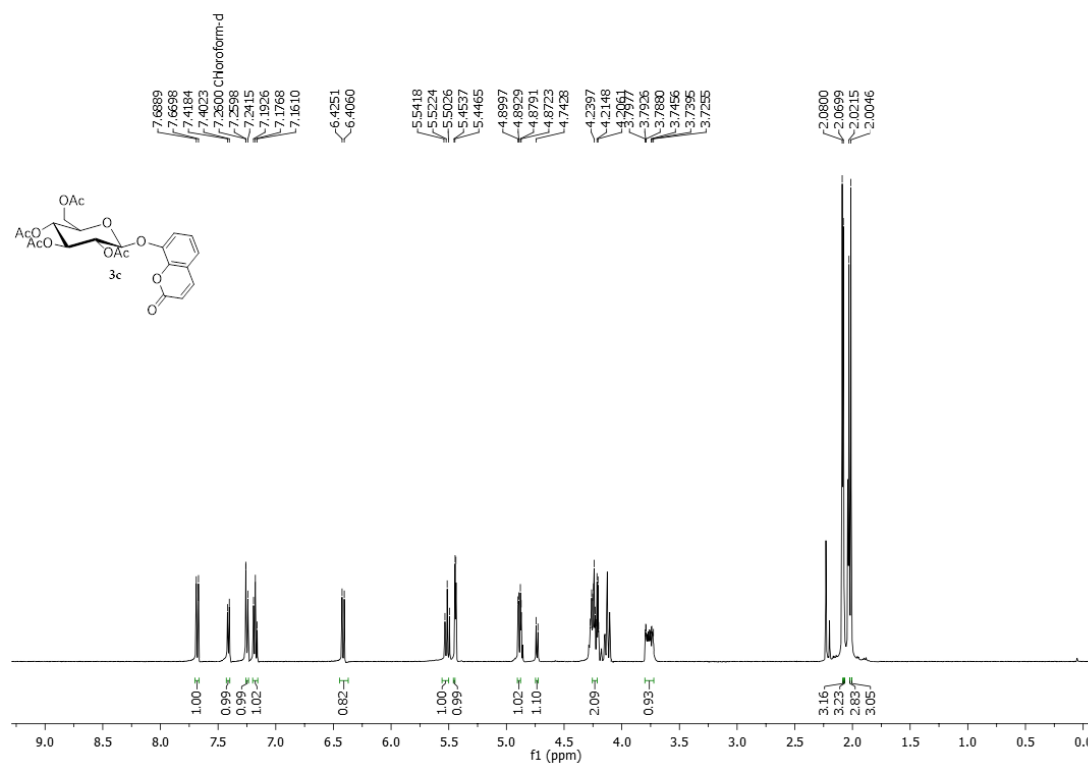
¹³CNMR:

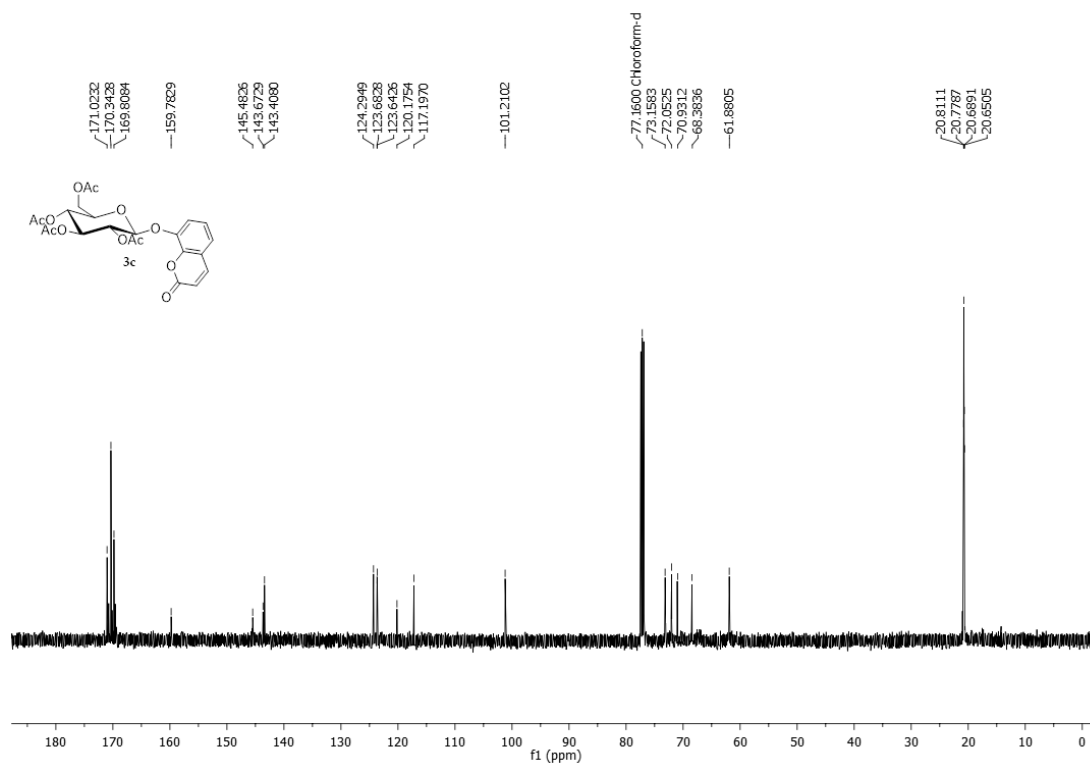
3b**3b**¹HNMR:

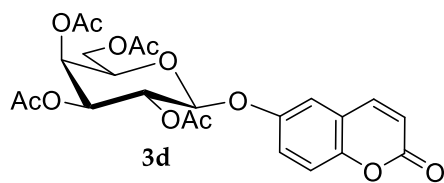
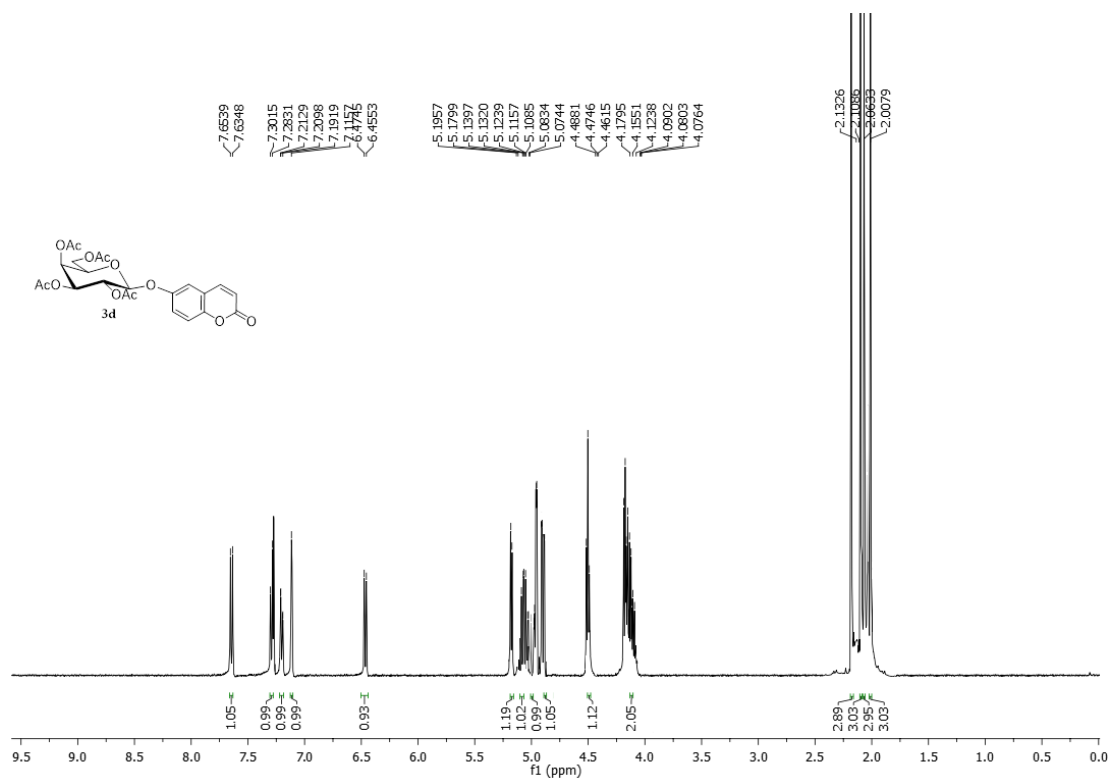
^{13}C -NMR:

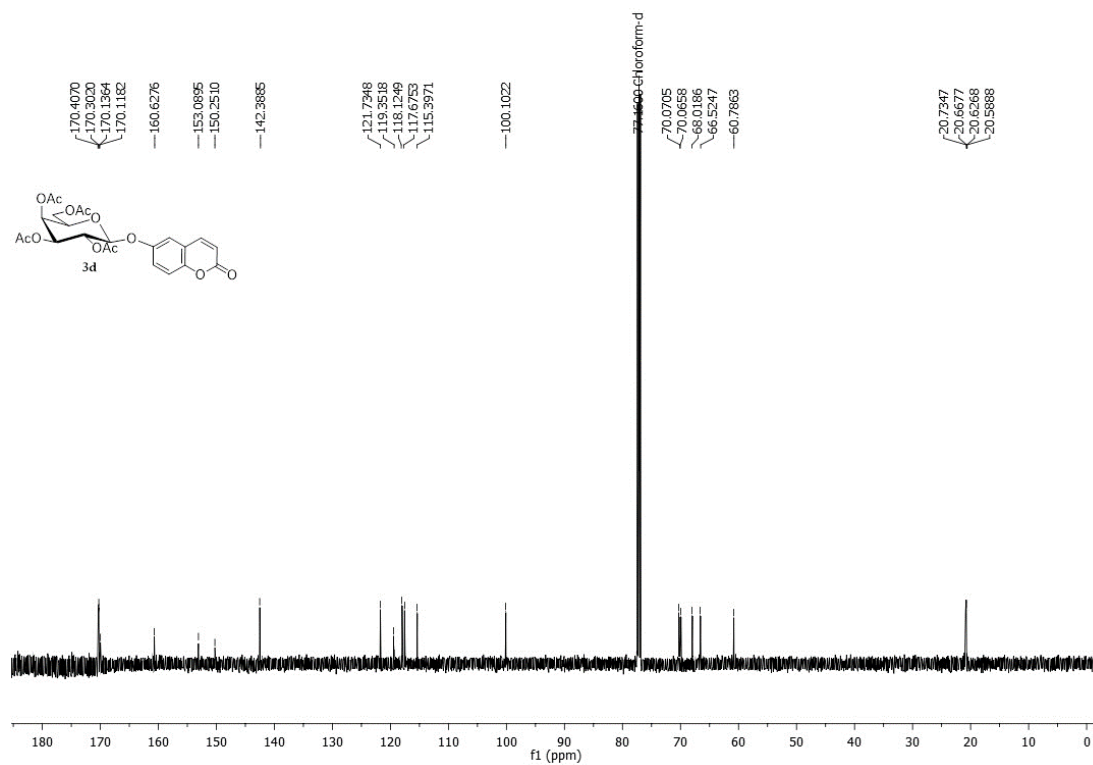
gHSQC AD:

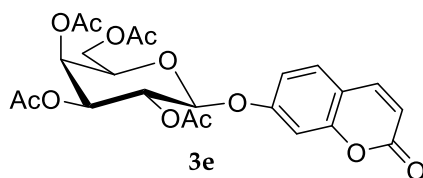
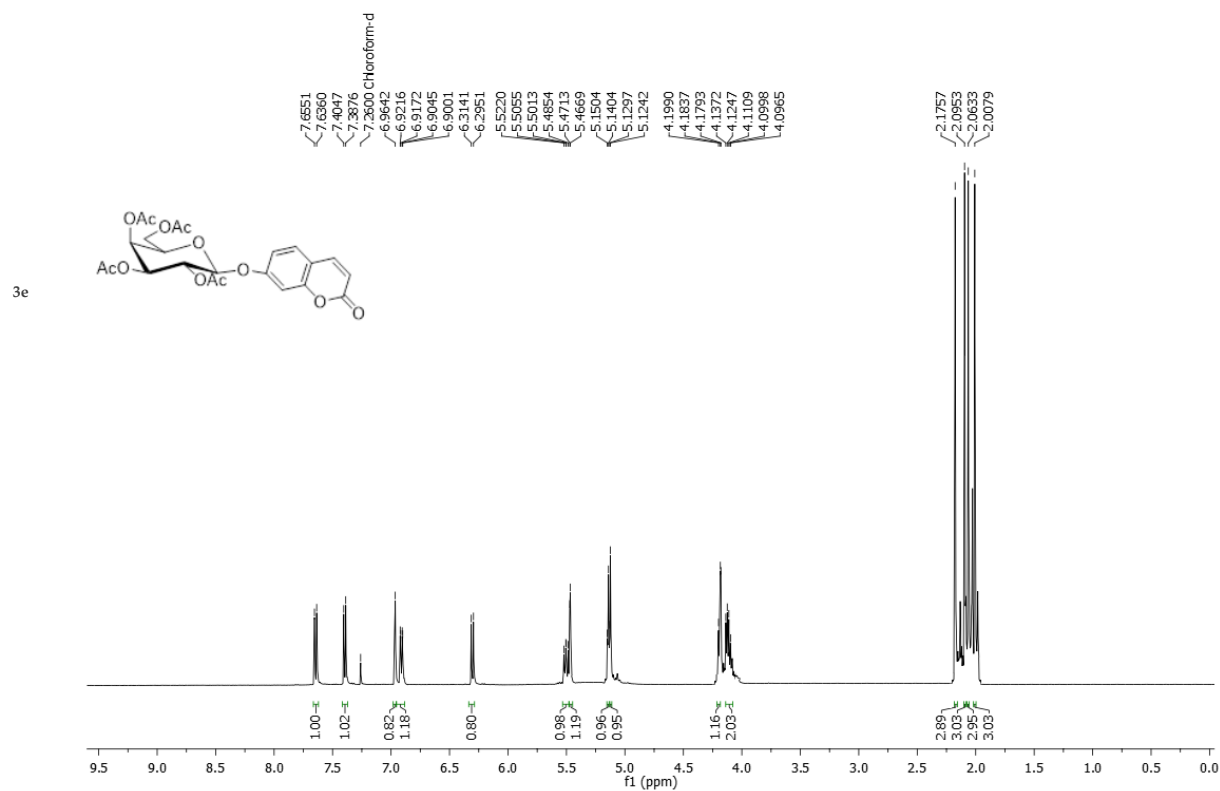


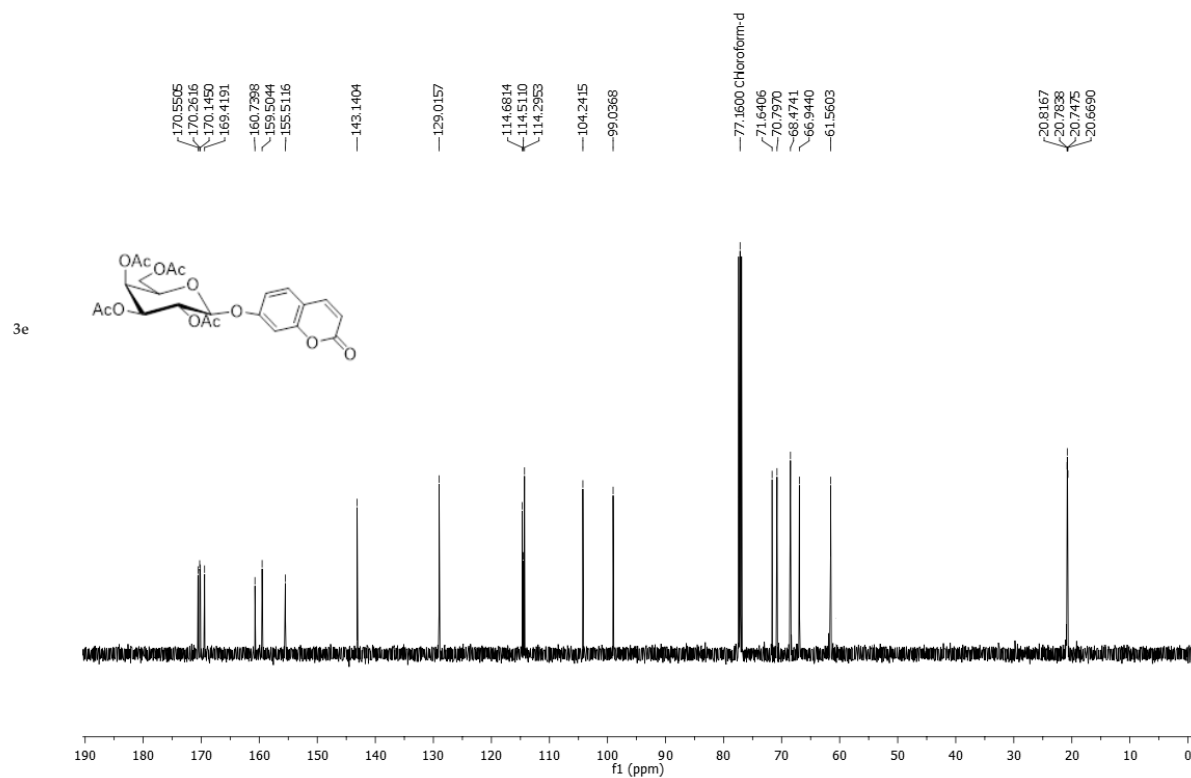
3c¹HNMR:

¹³CNMR:

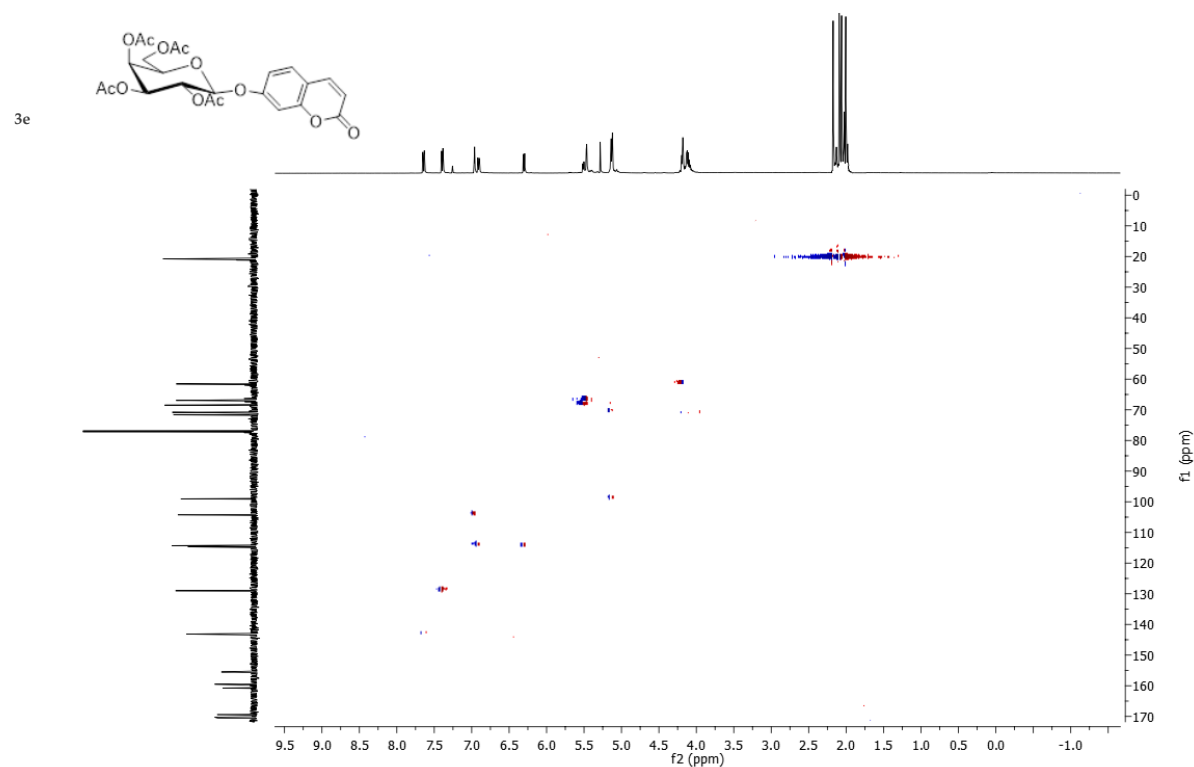
3d¹HNMR:

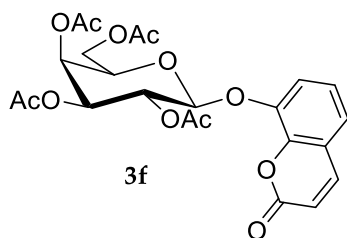
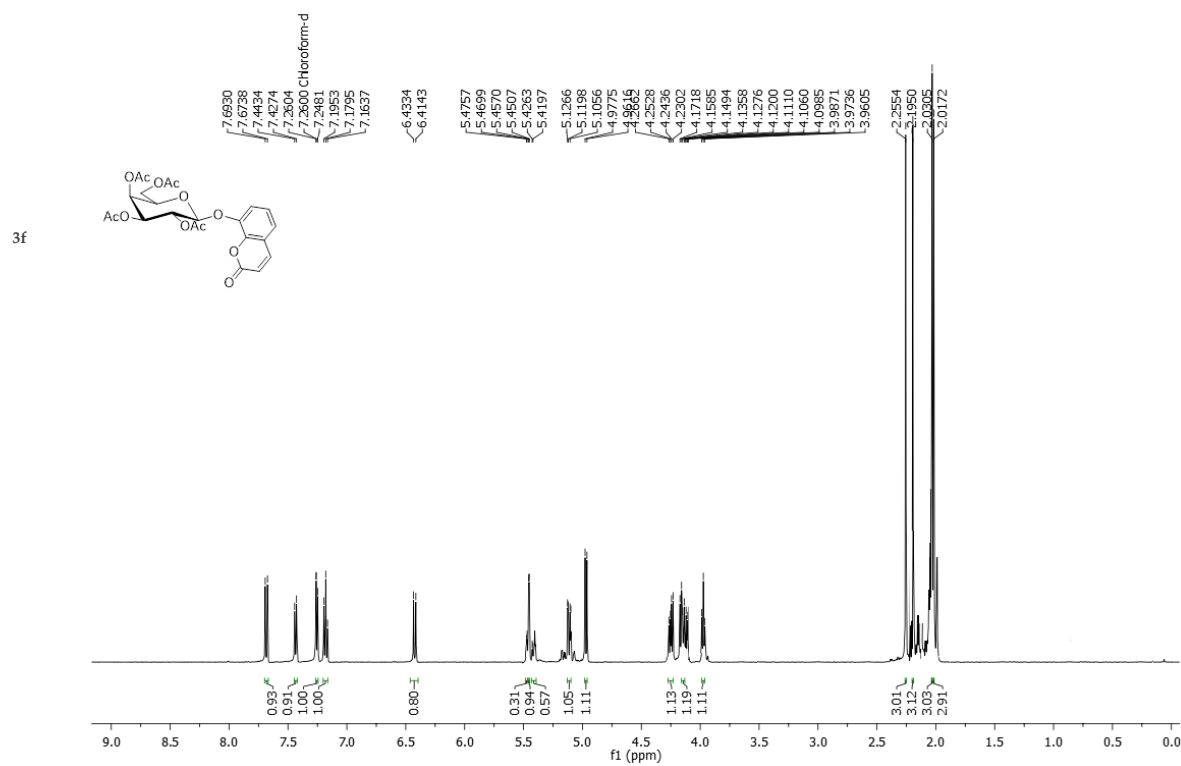
¹³CNMR:

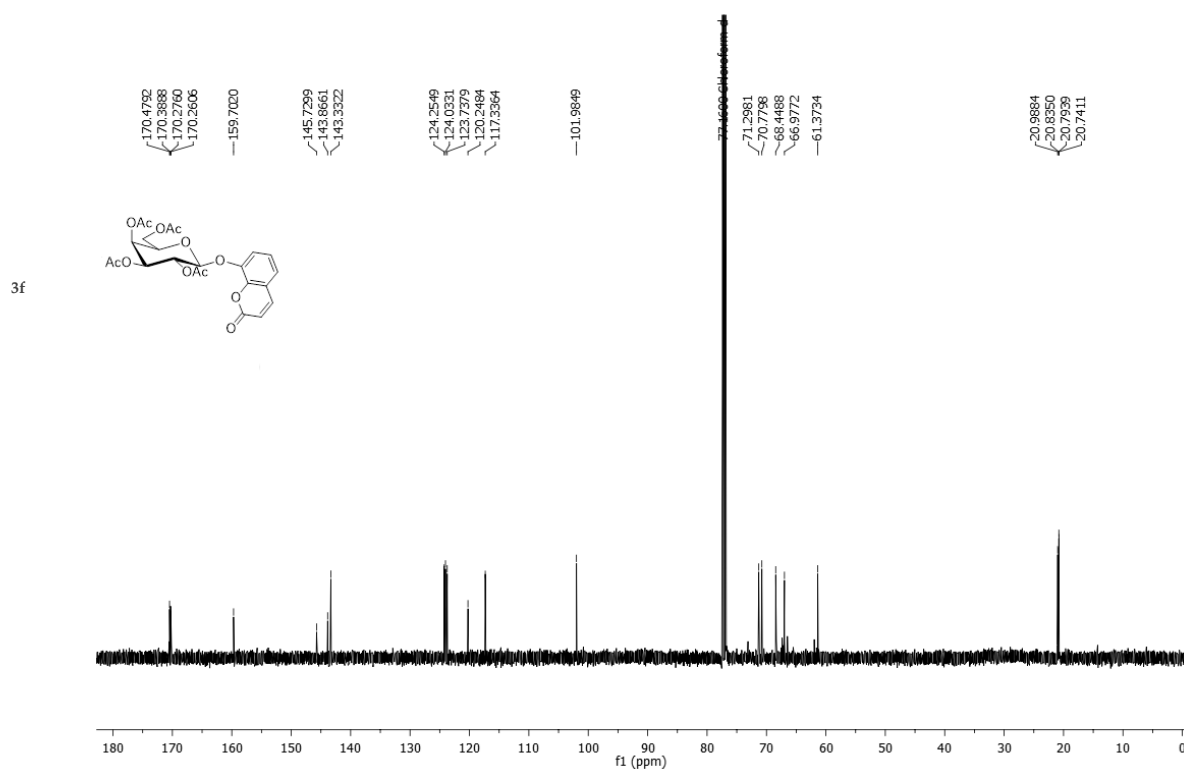
3e¹NMR:

¹³CNMR:

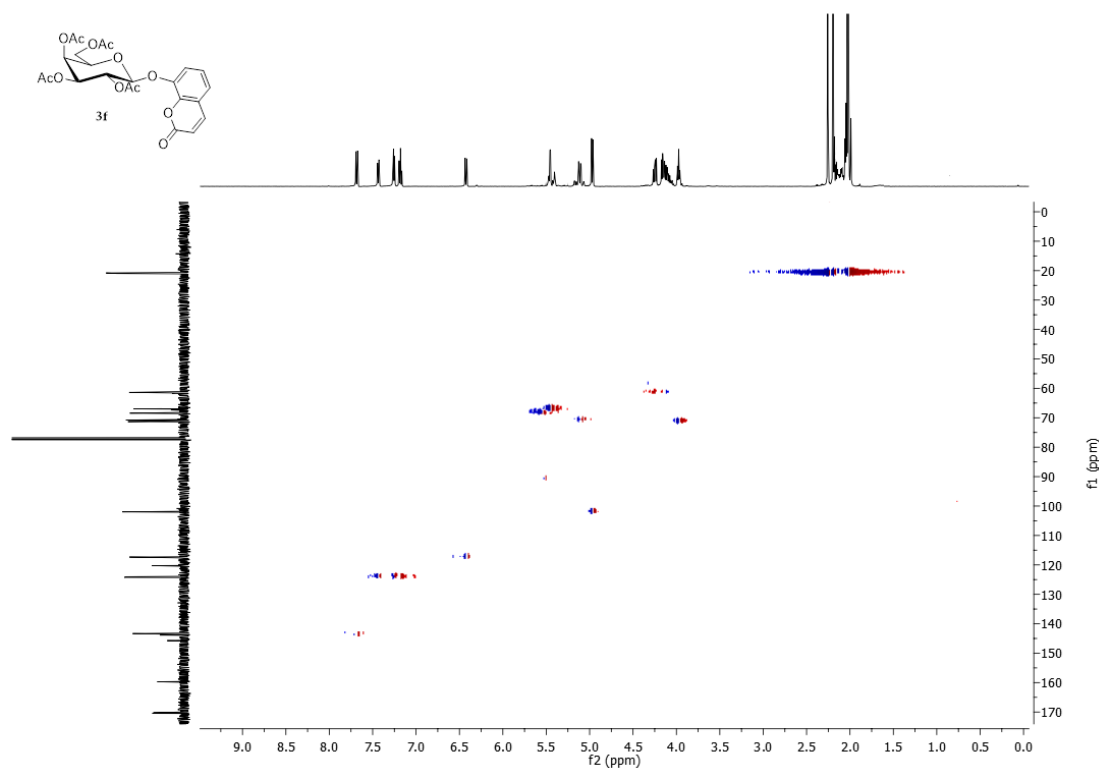
gHSQC AD:

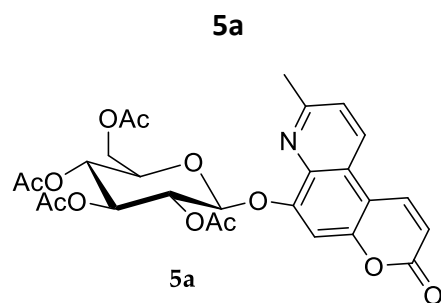


3f**3f**¹HNMR:

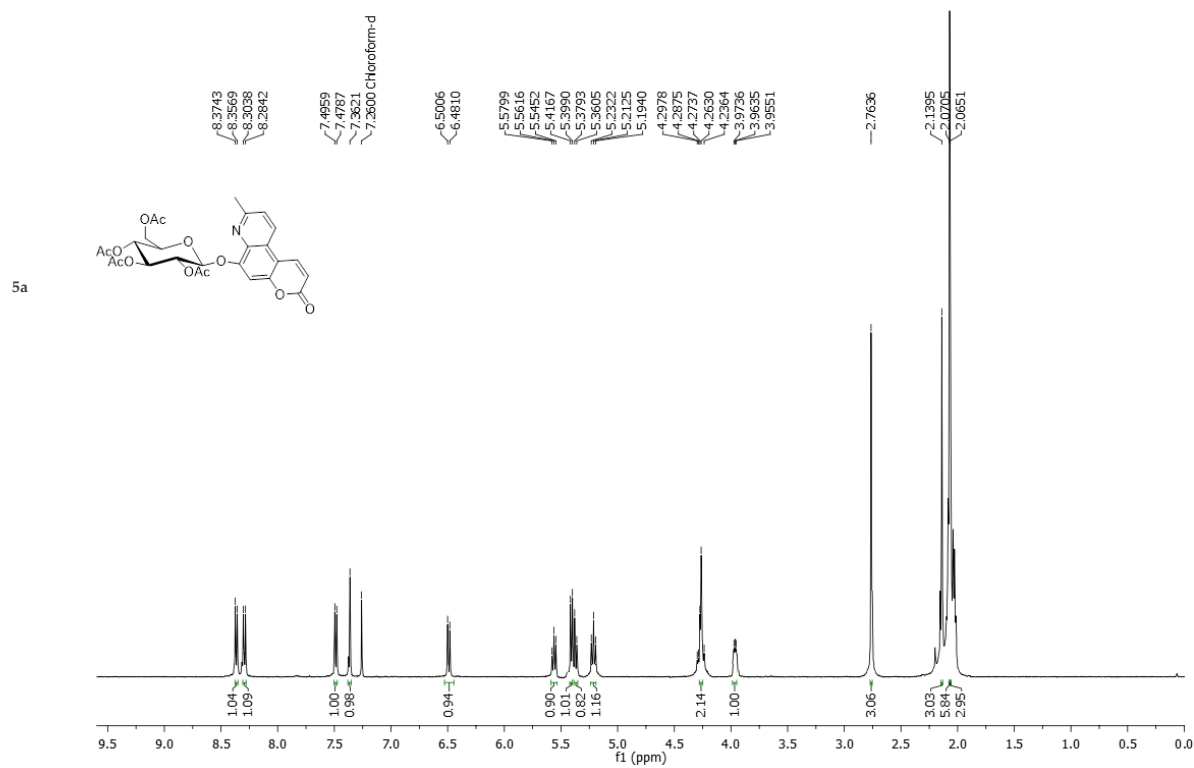
¹³CNMR:

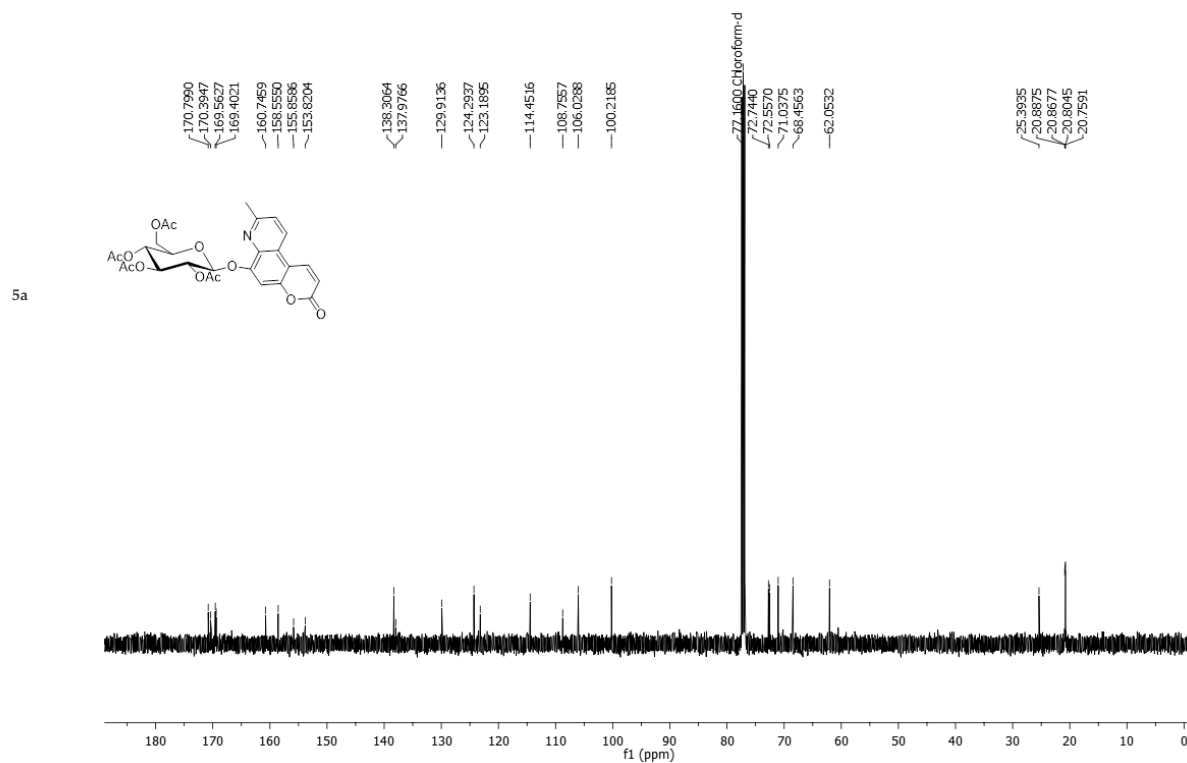
gHSQC AD:



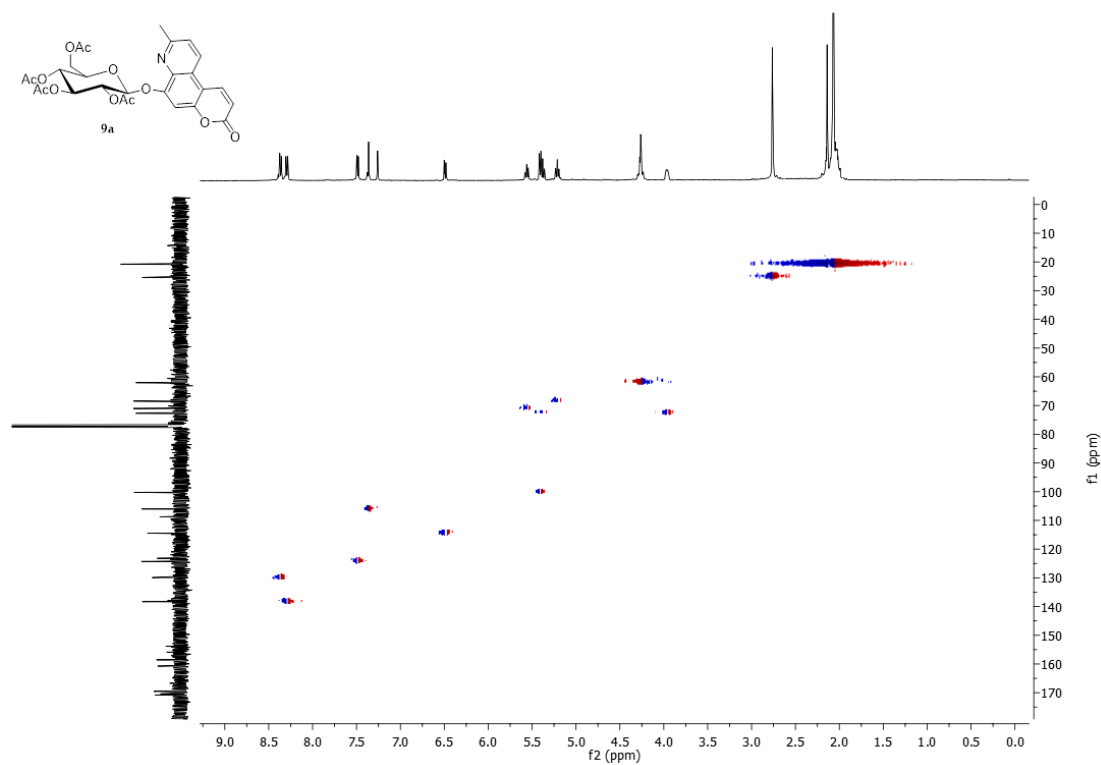


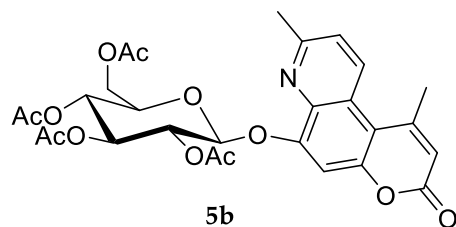
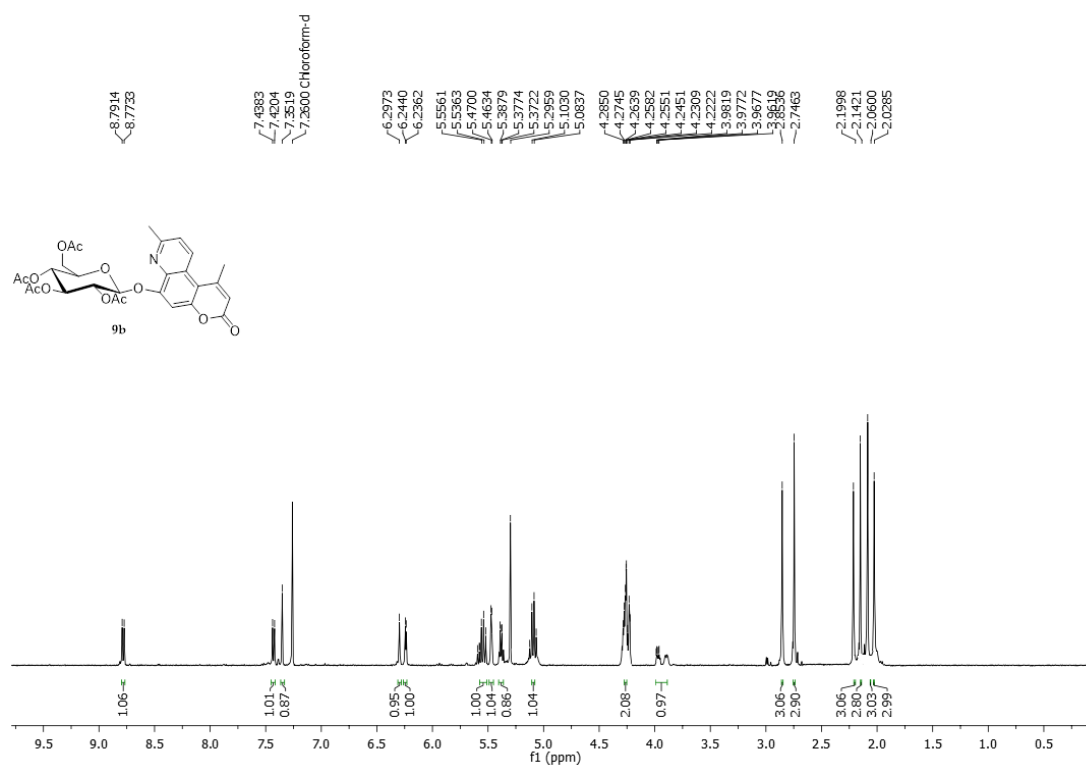
¹HNMR:

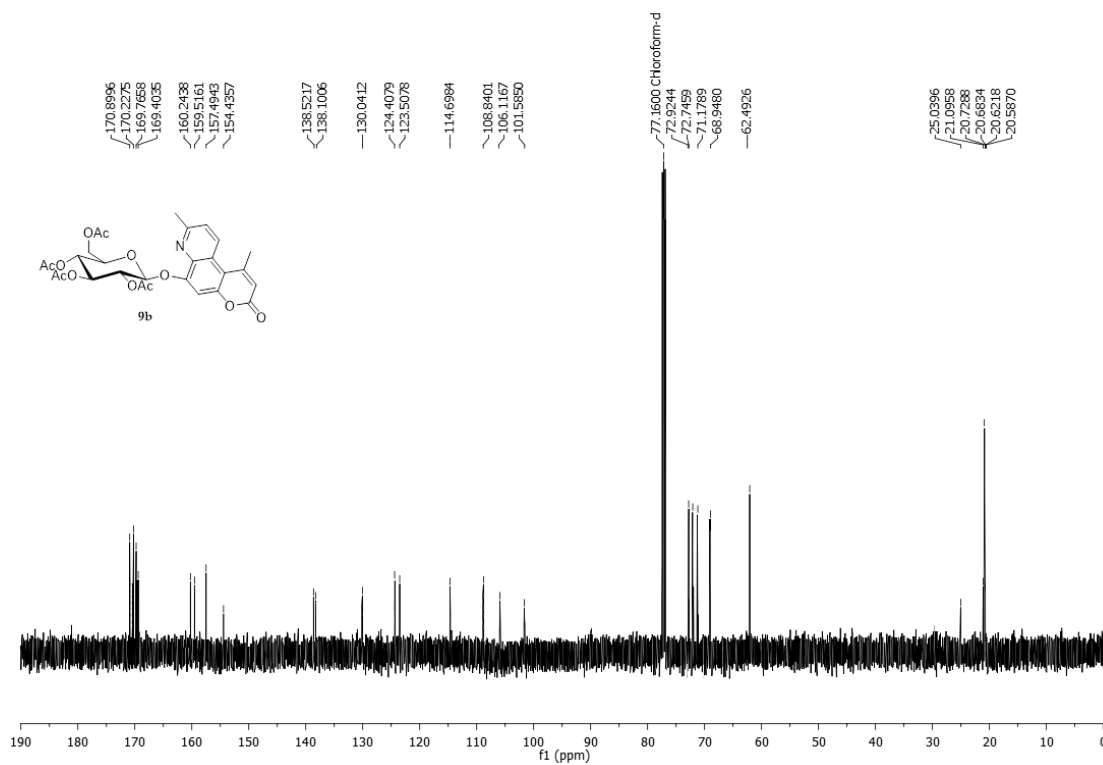


¹³CNMR:

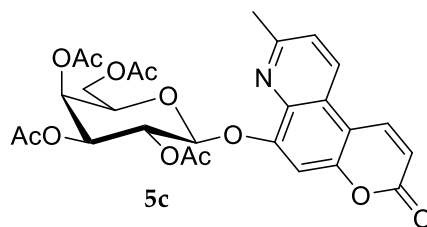
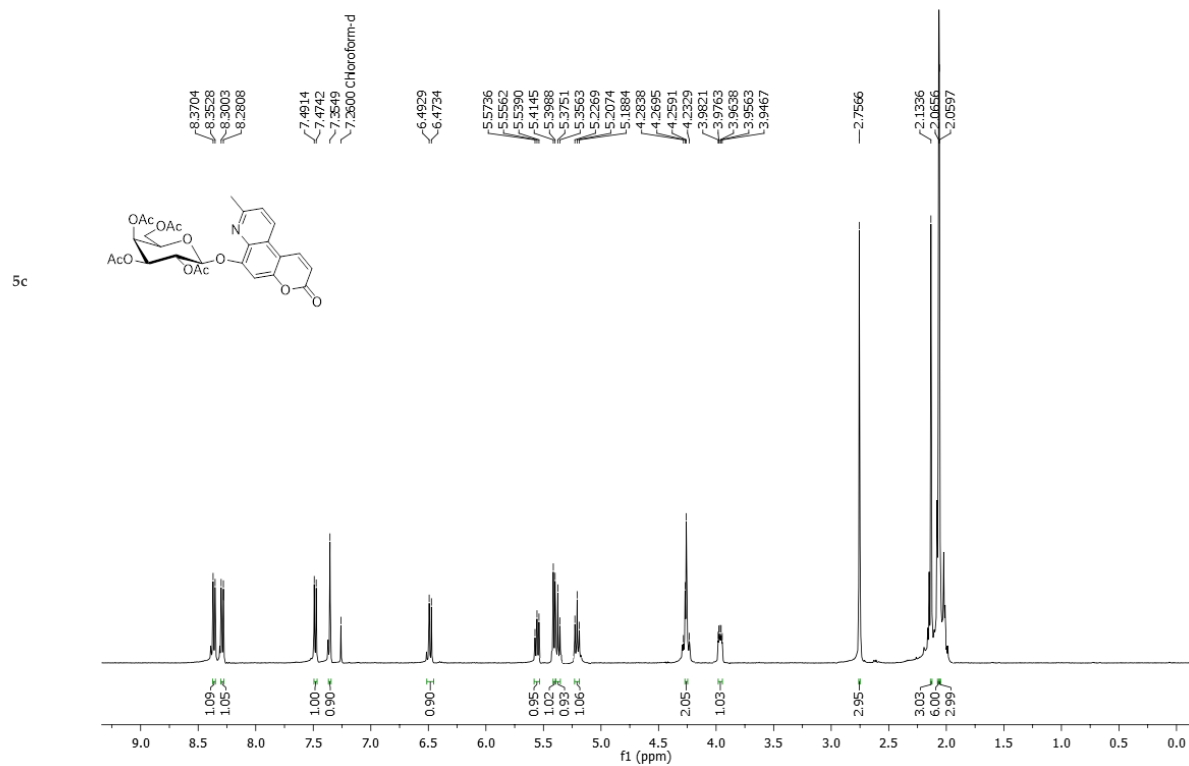
gHSQC AD:

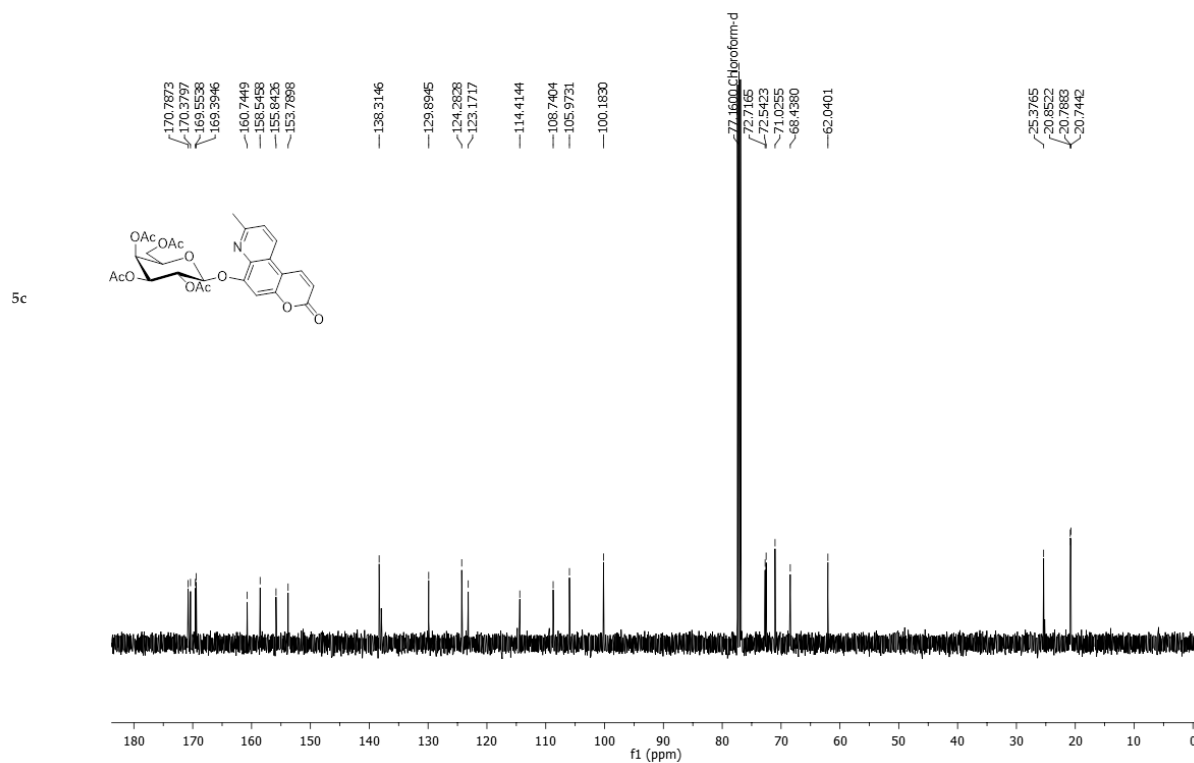


5b¹HNMR:

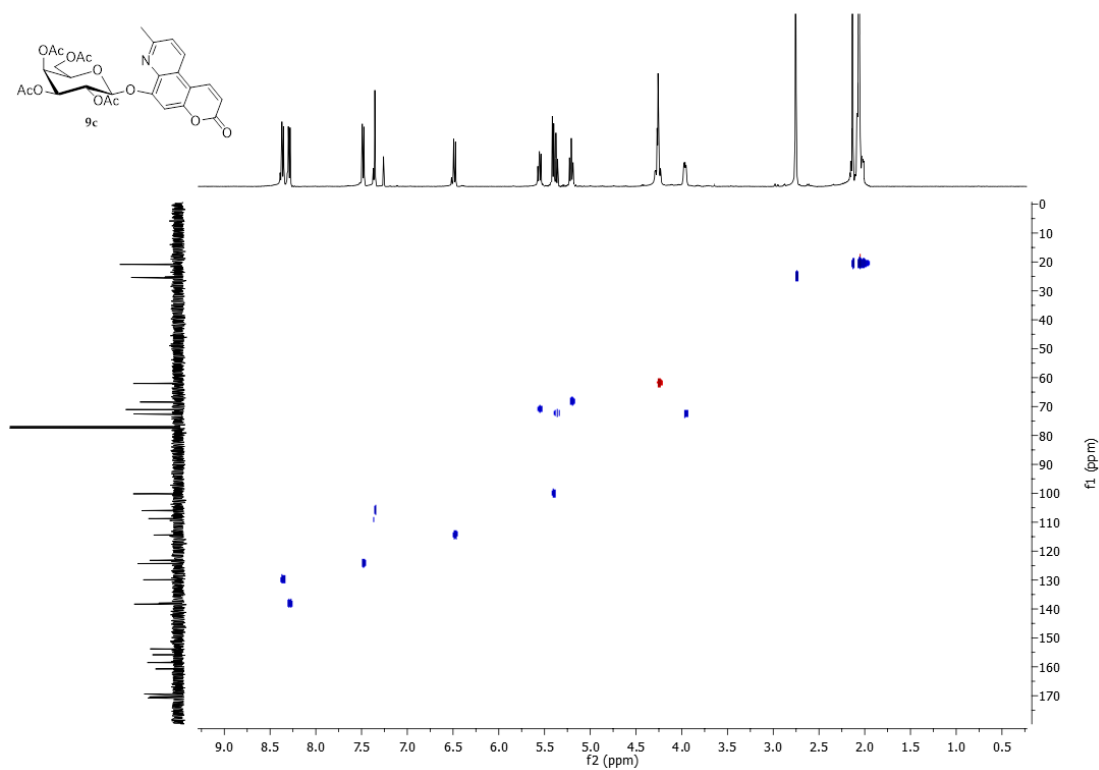
^{13}C NMR:

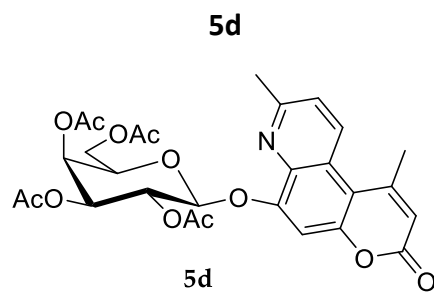
5c

¹HNMR:

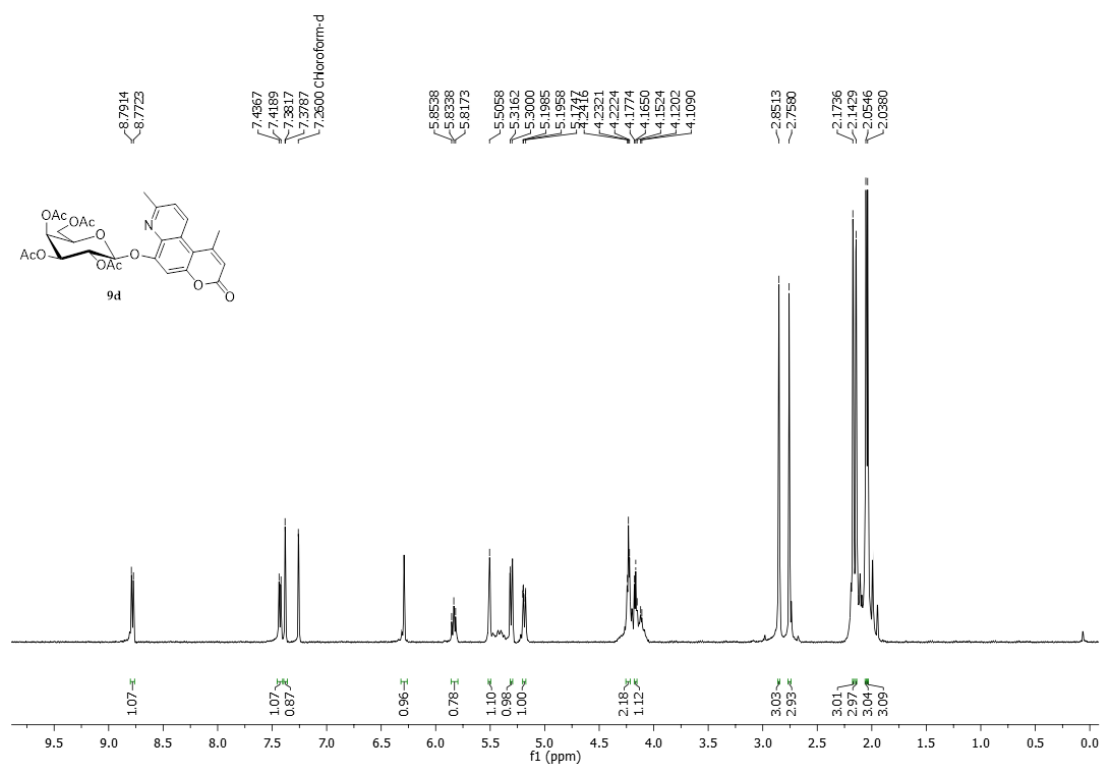
¹³CNMR:

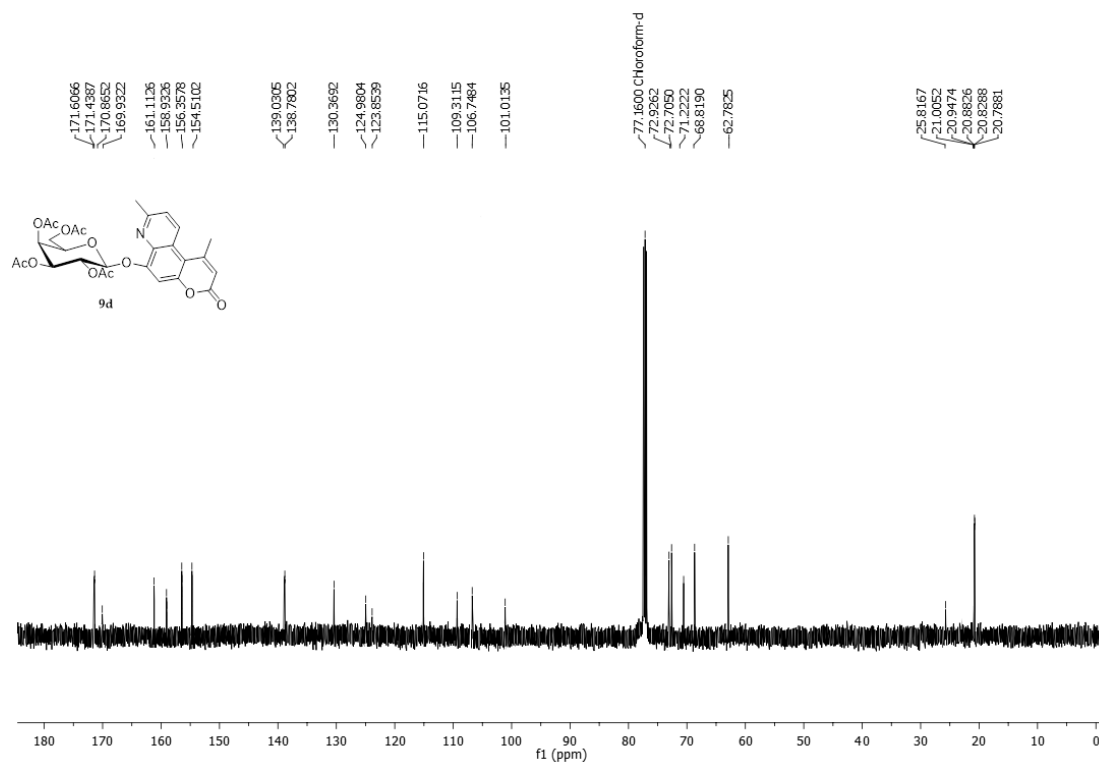
gHSQC AD:

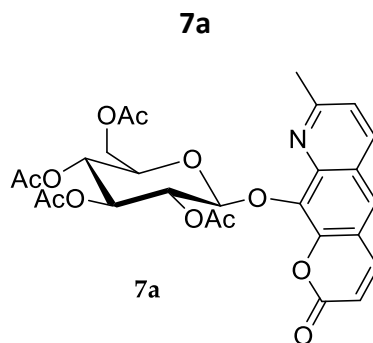
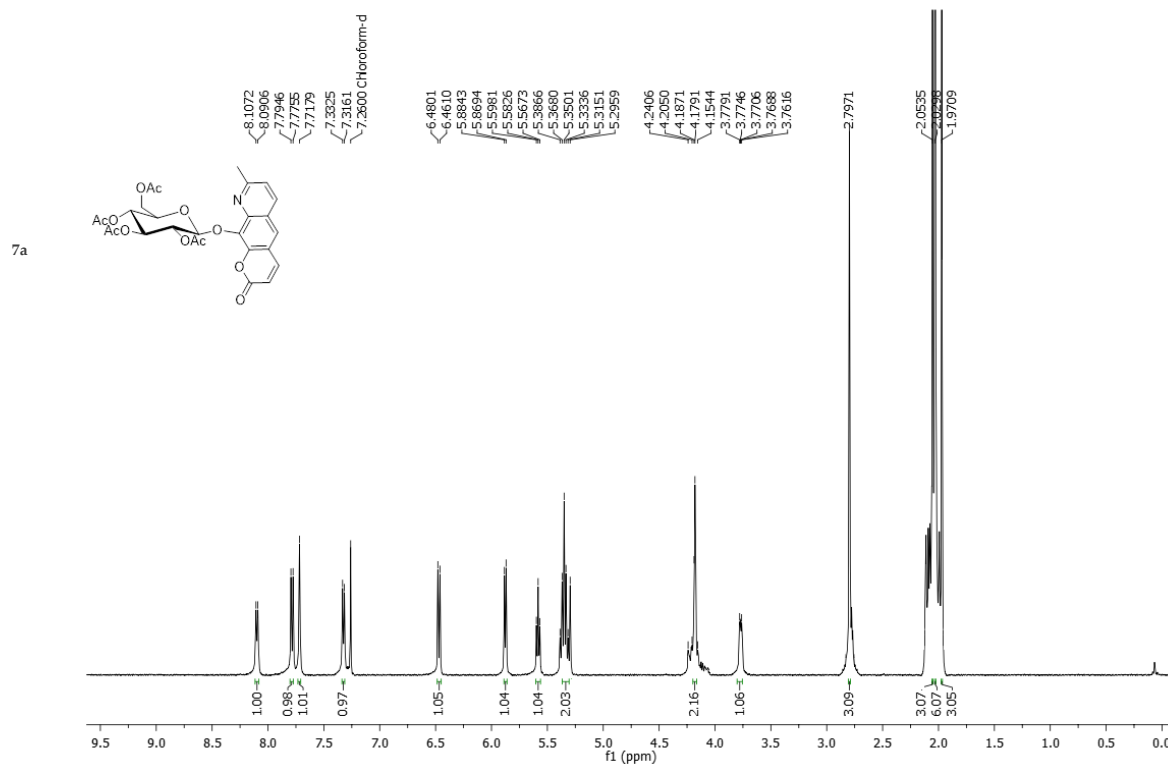


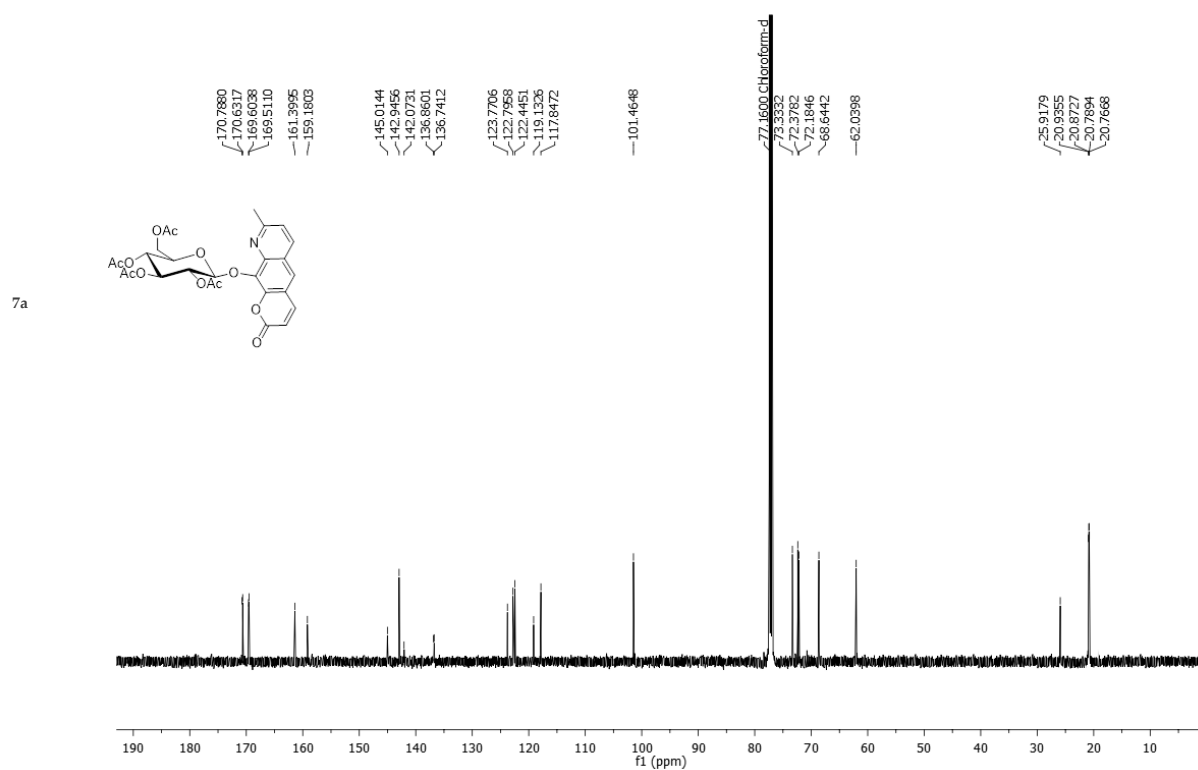


¹HNMR:

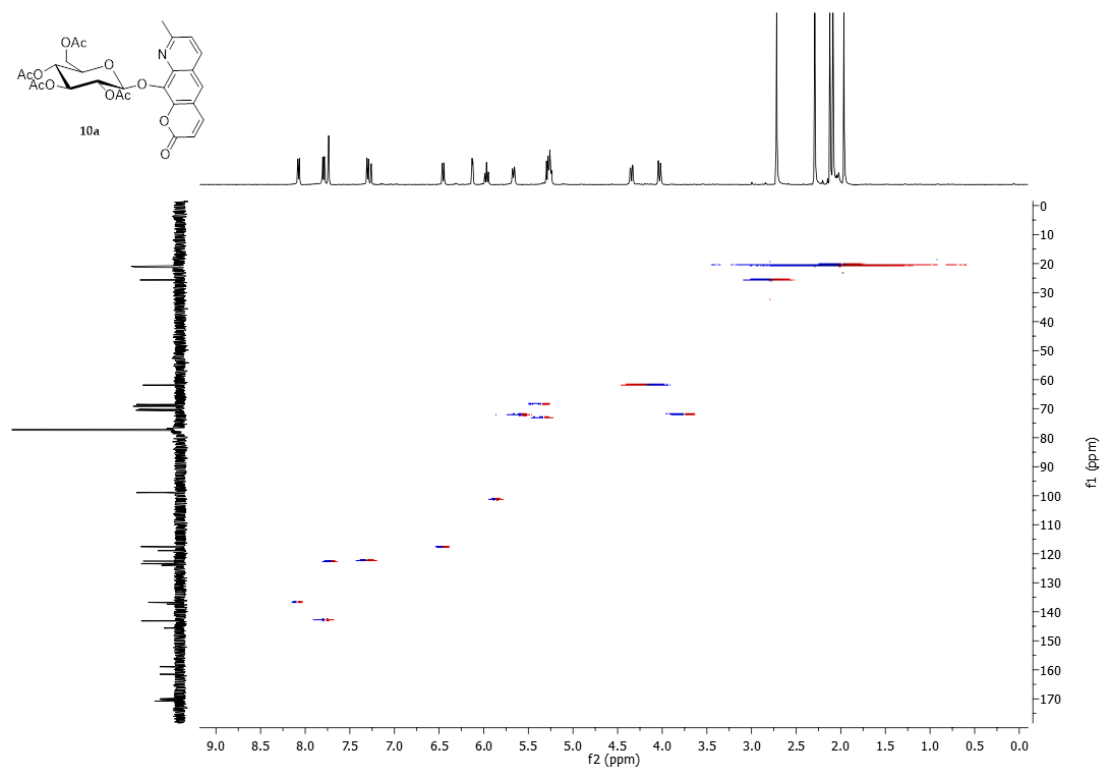


¹³CNMR:

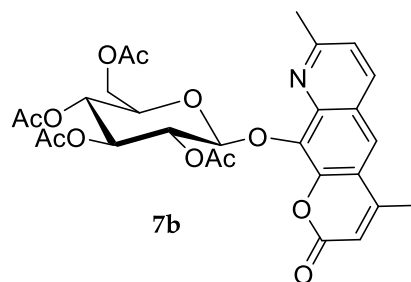
¹HNMR:

^{13}C NMR:

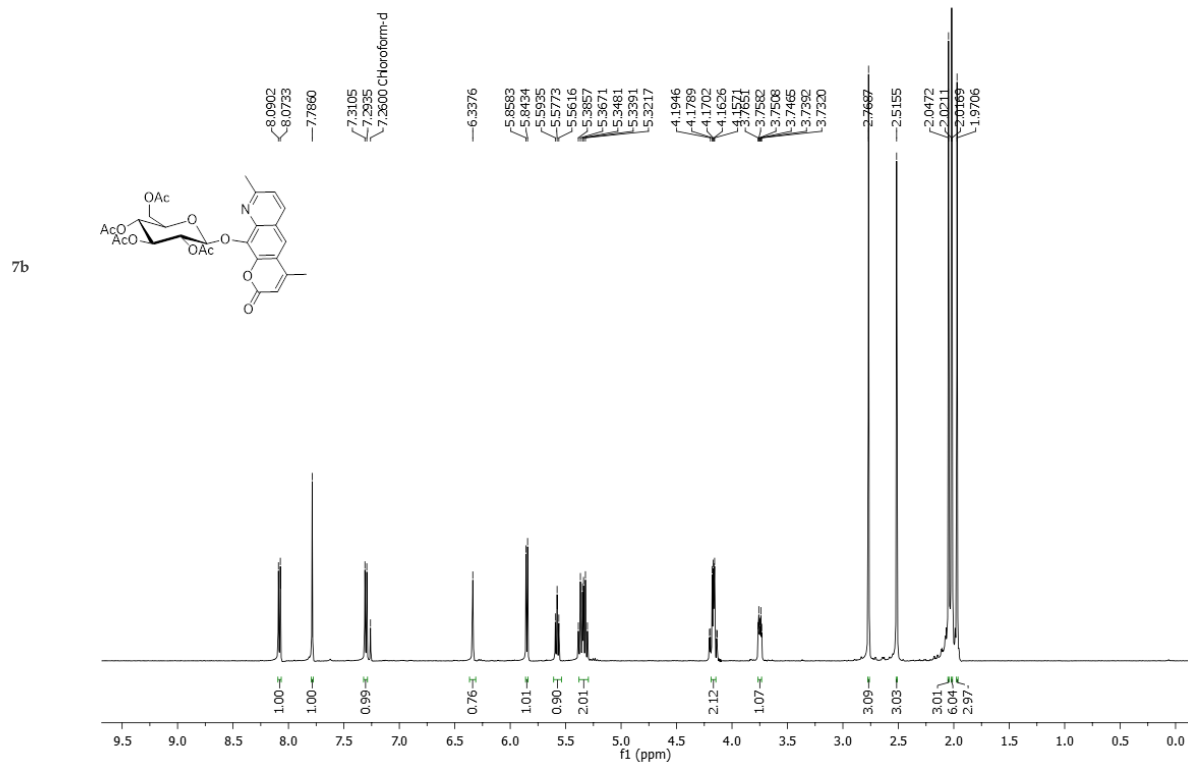
gHSQC AD:

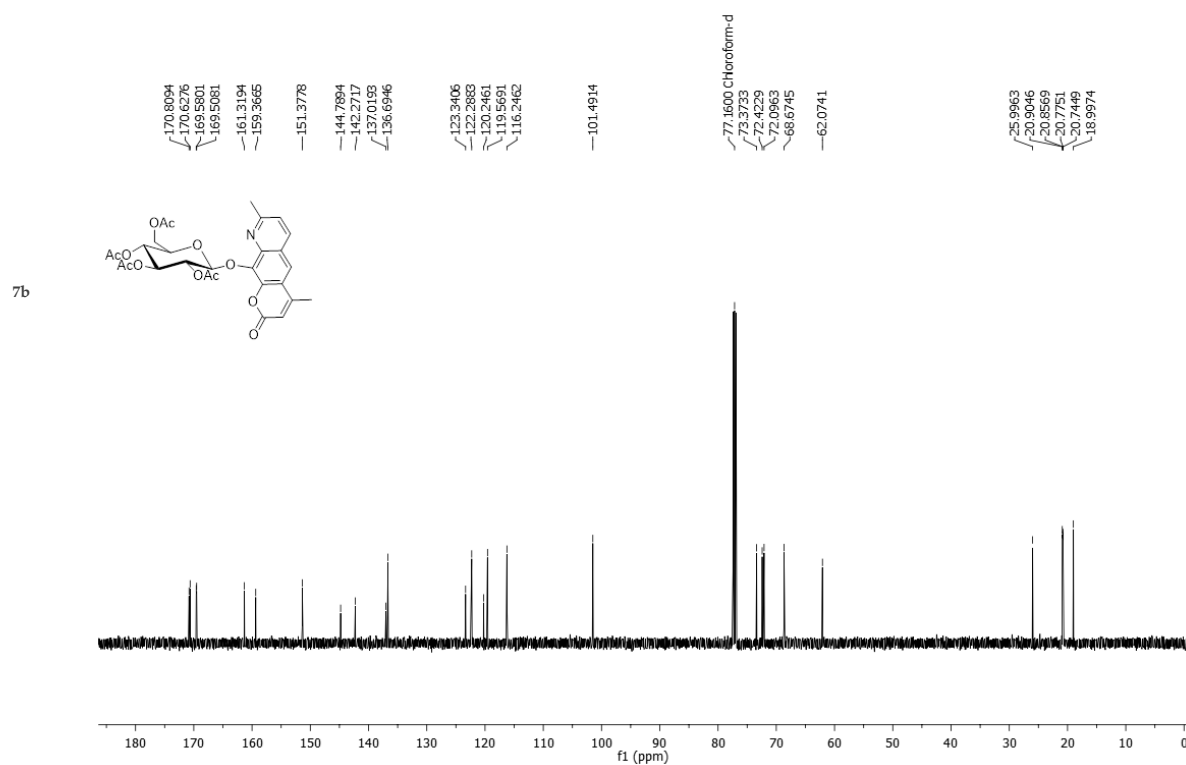


7b

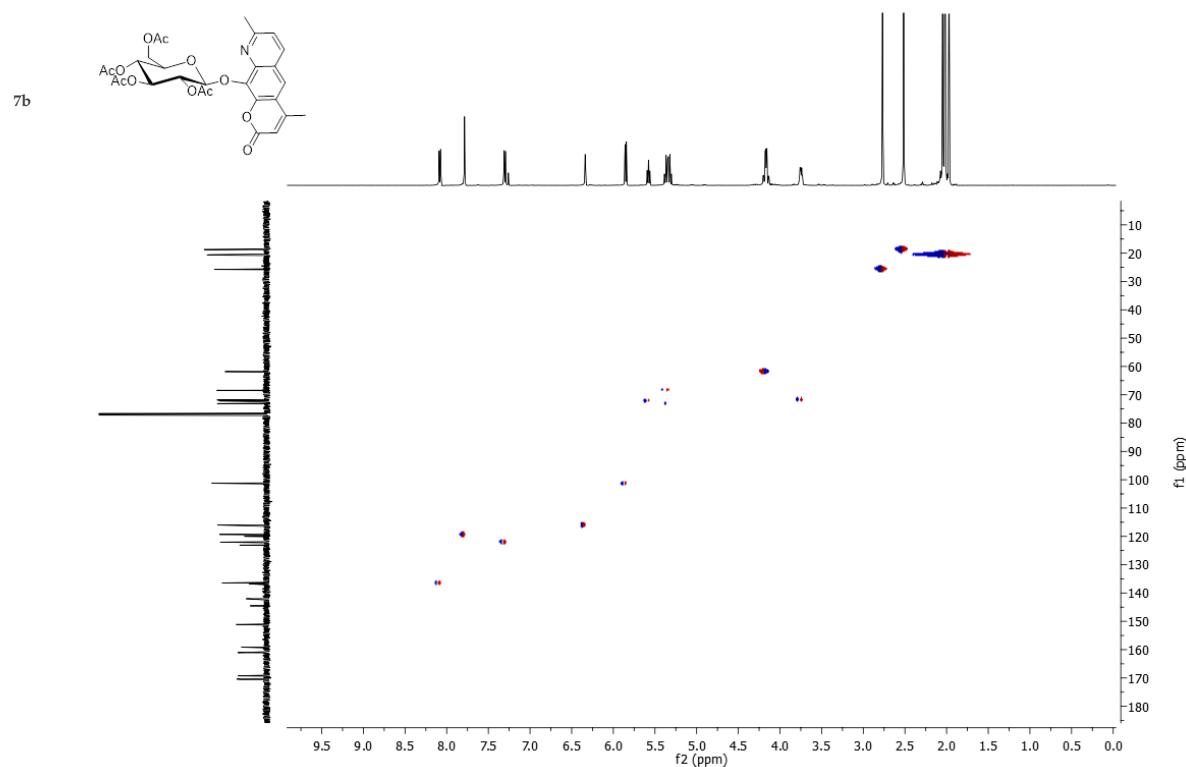


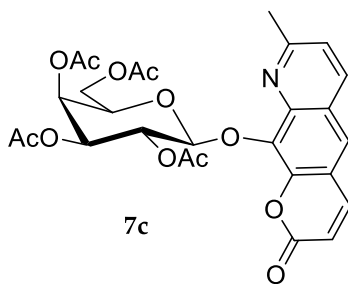
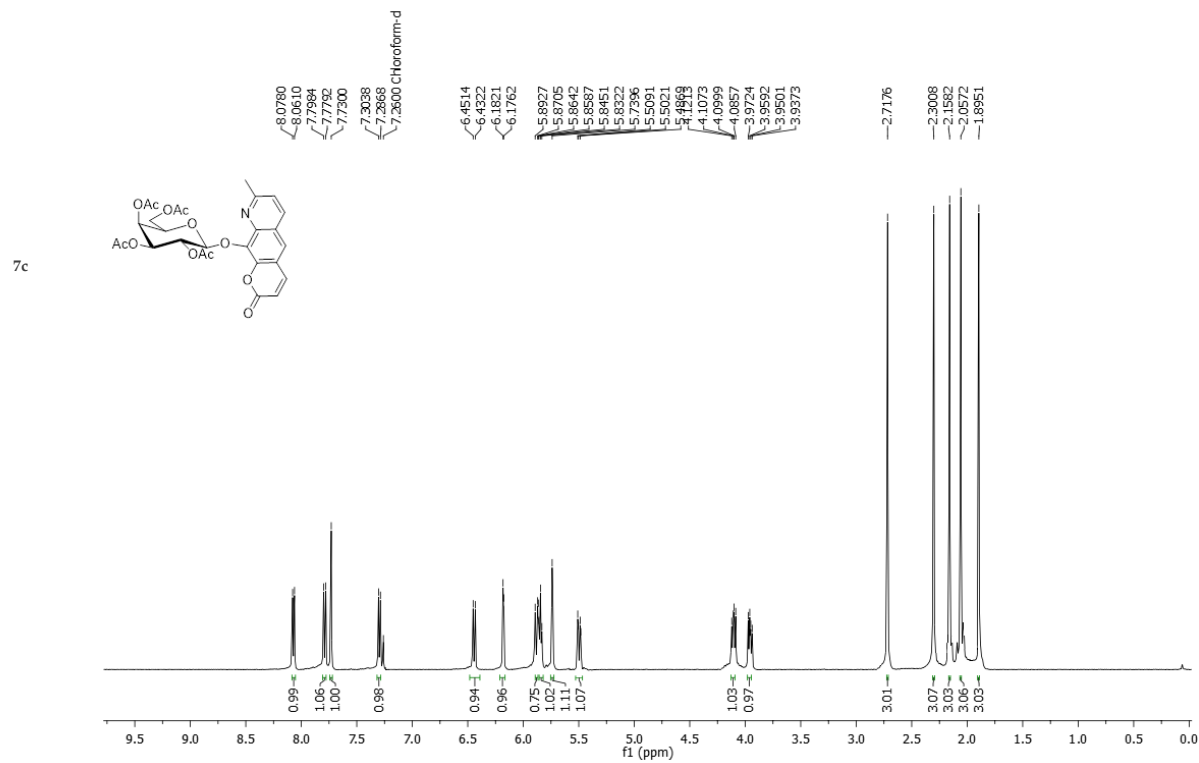
7b

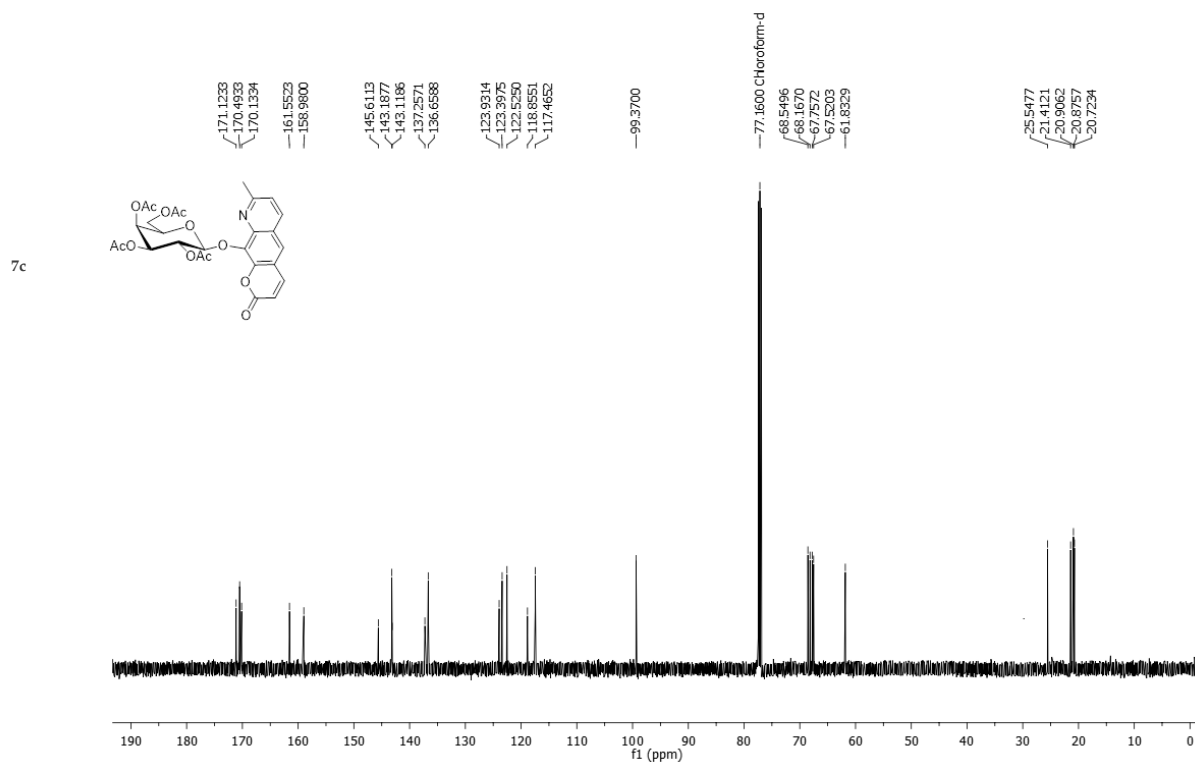
¹HNMR:

¹³CNMR:

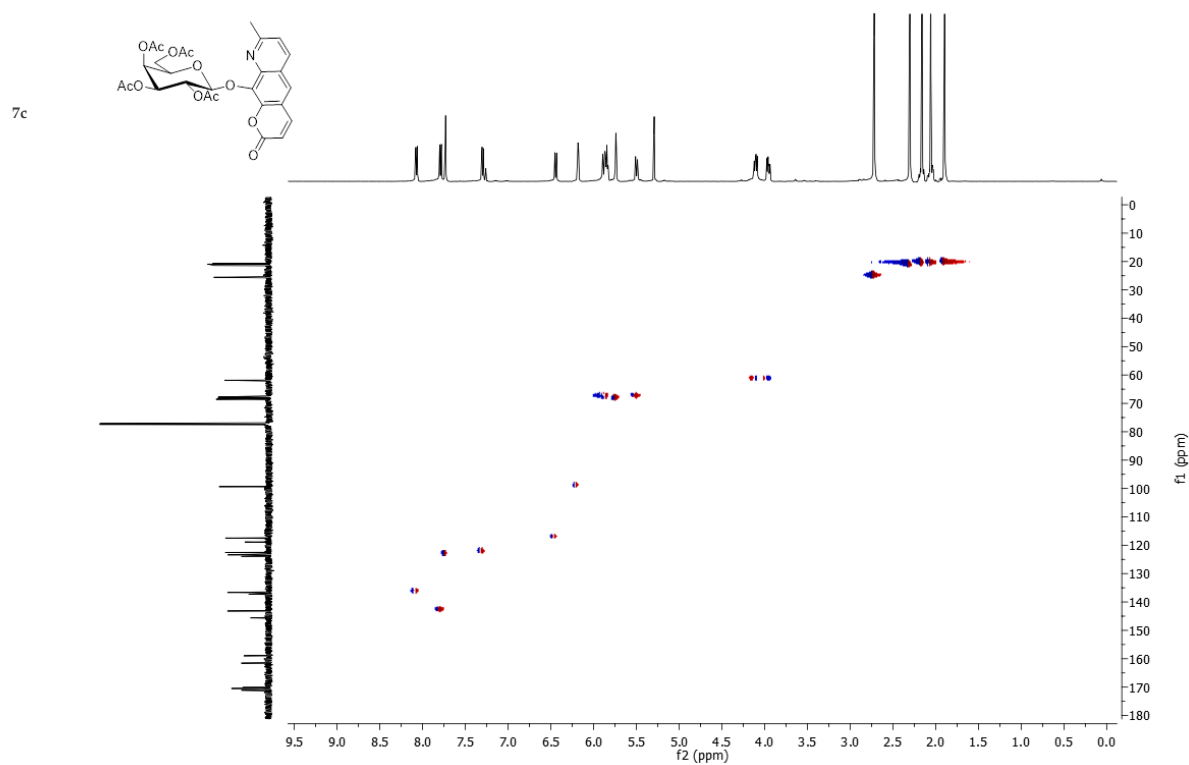
gHSQC AD



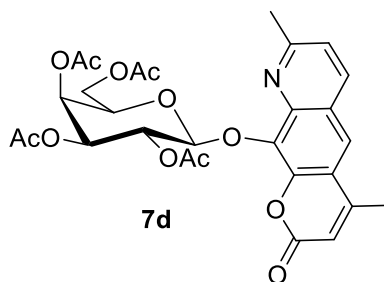
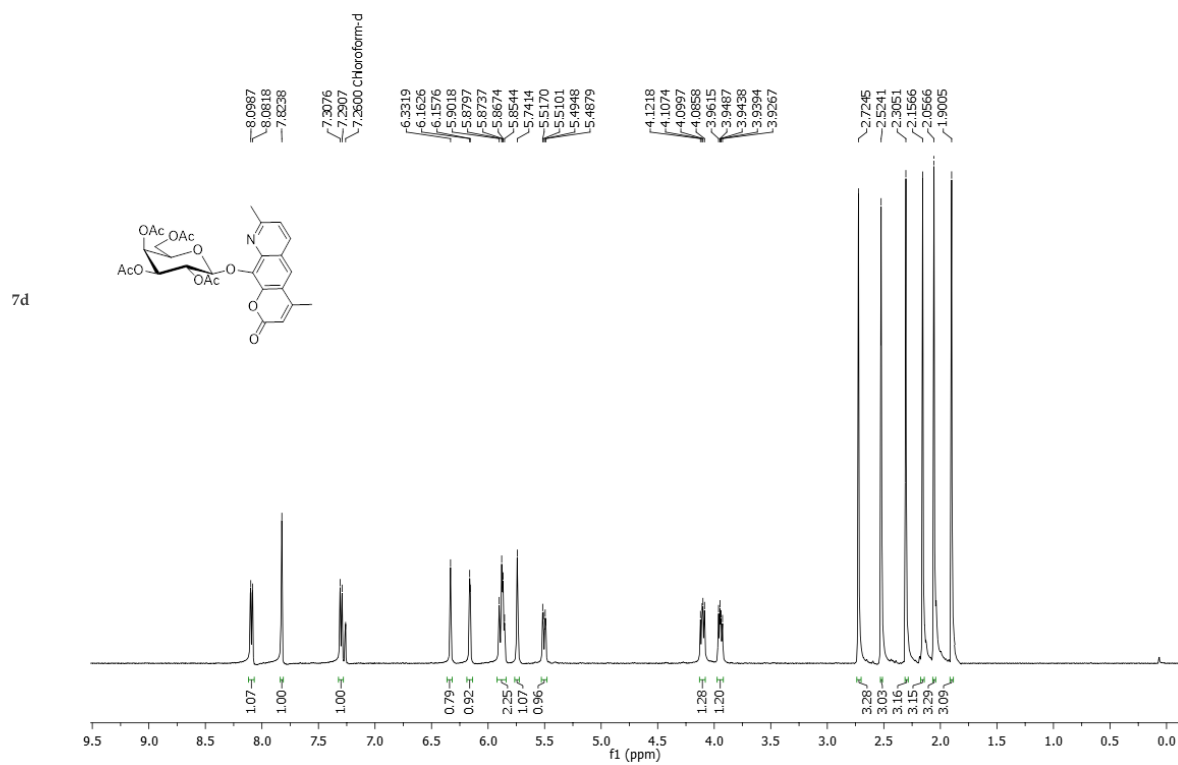
7c**7c**¹HNMR:

^{13}C NMR:

gHSQC AD:

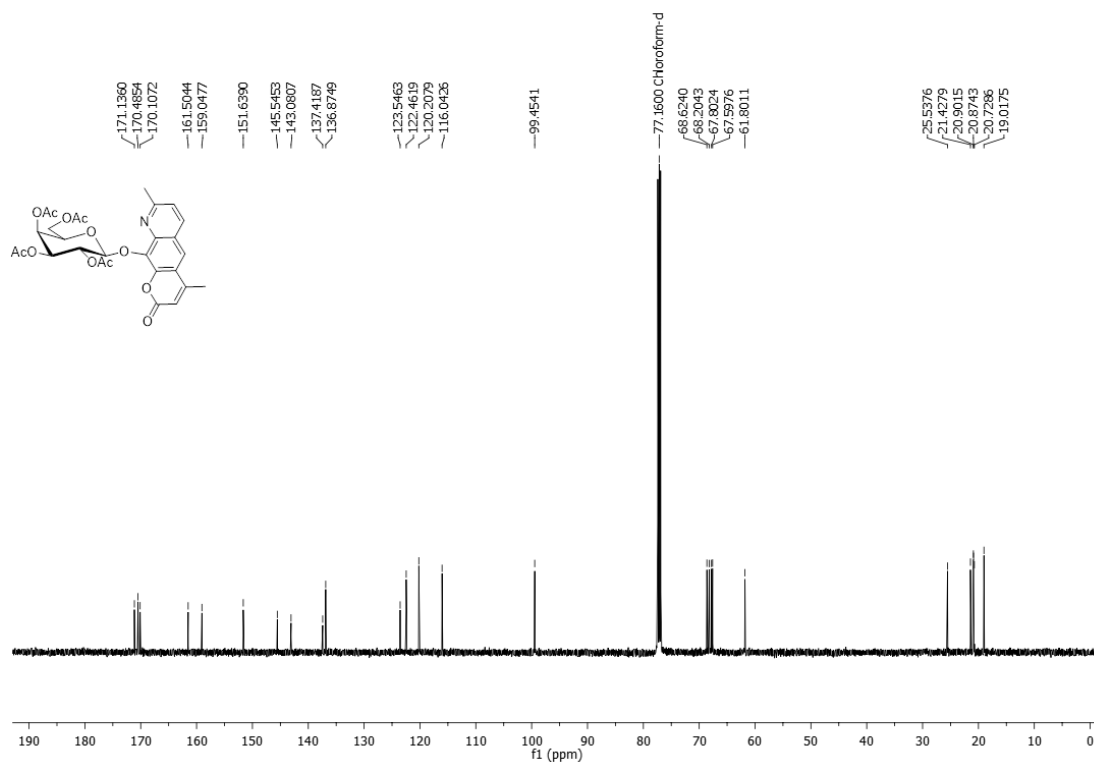


7d

¹HNMR:

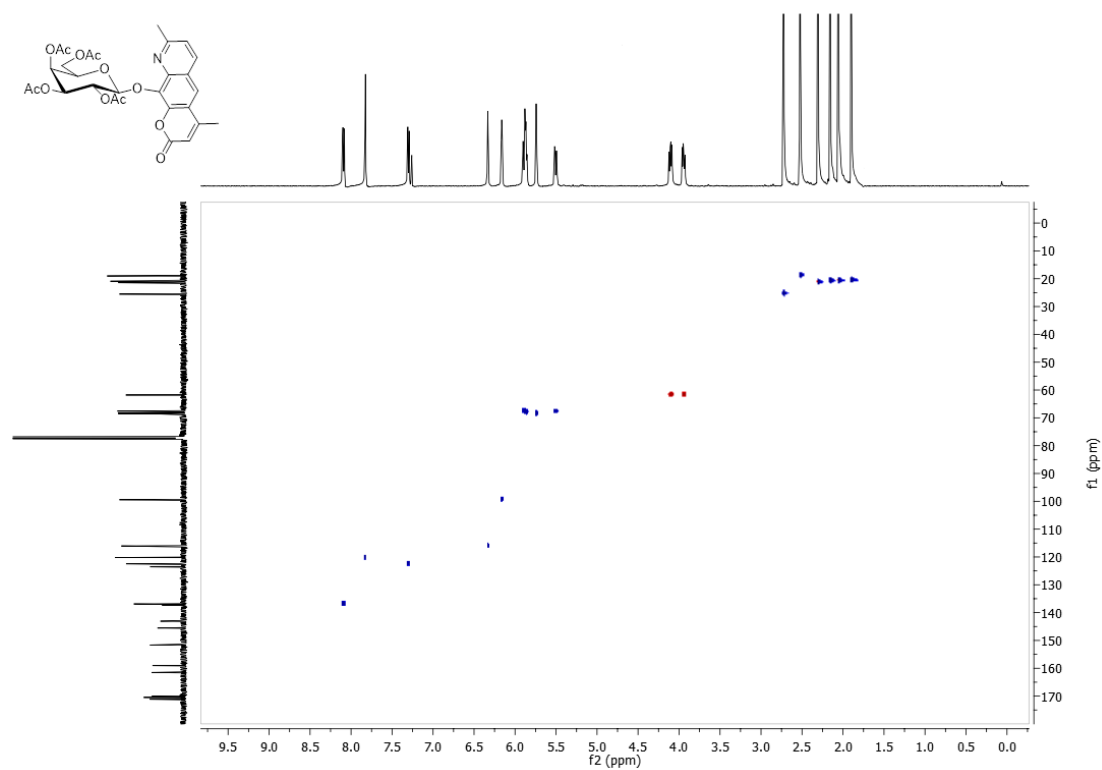
^{13}C NMR:

7d

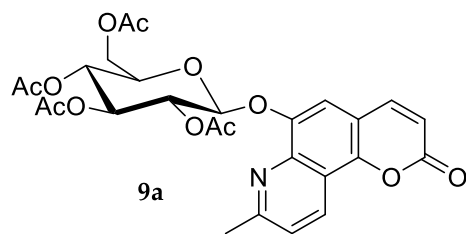
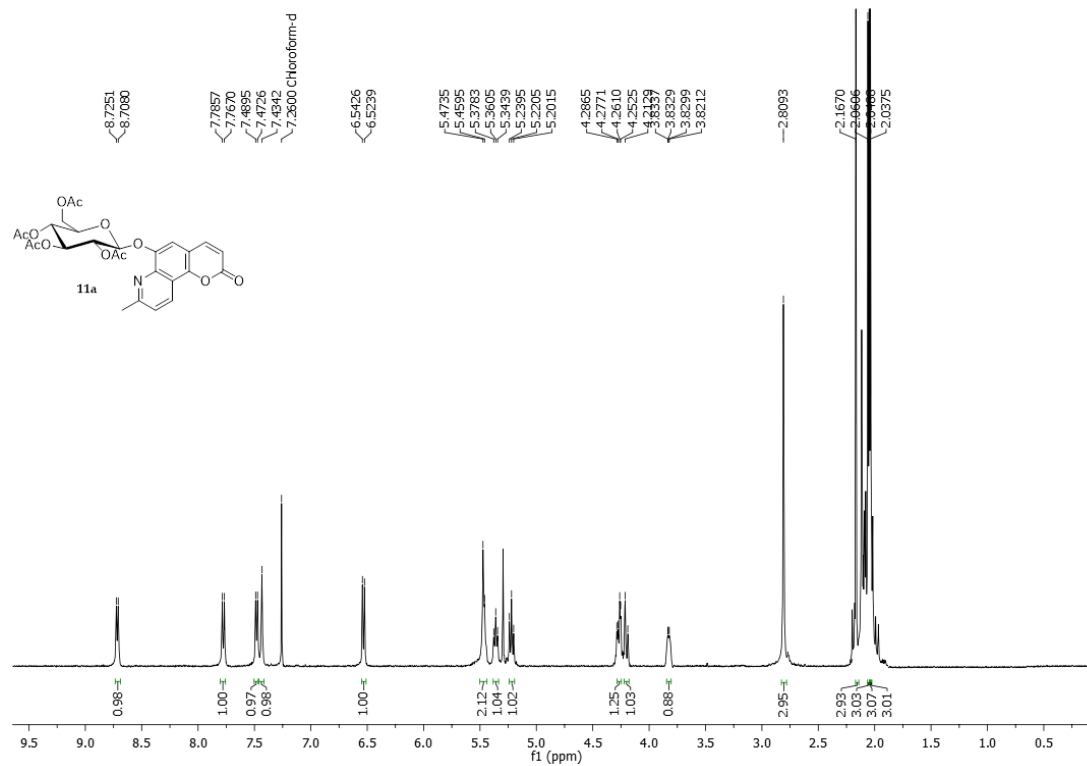


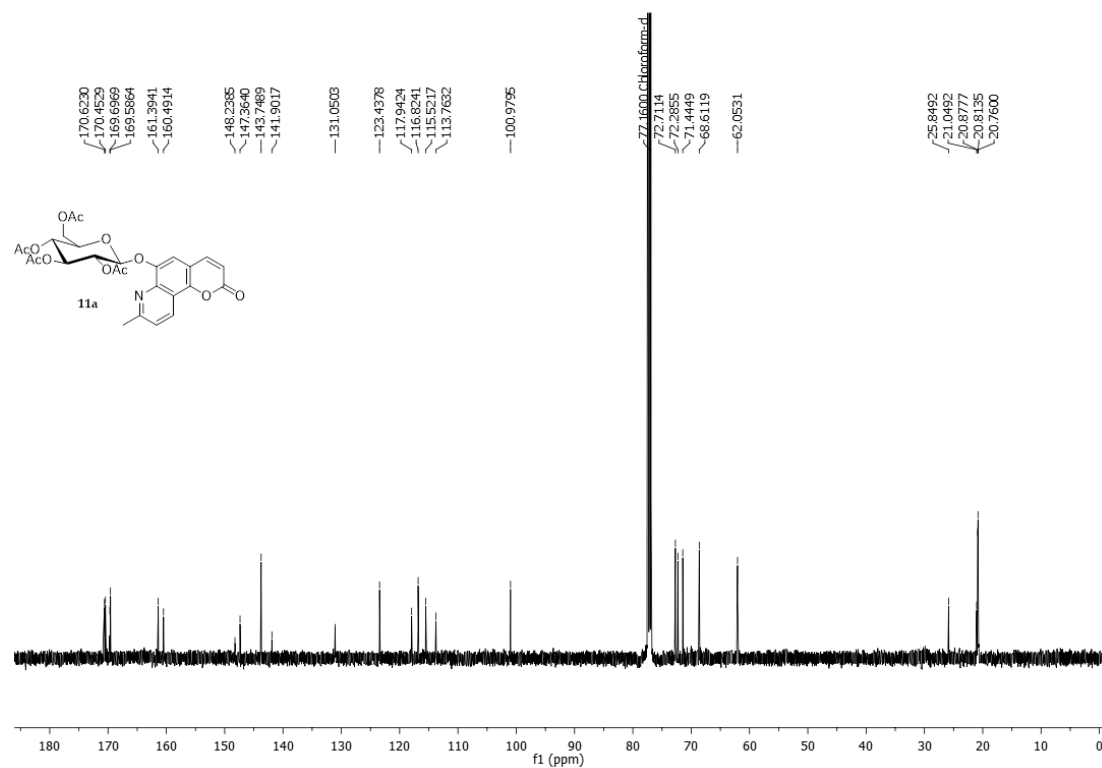
gHSQC AD:

7d

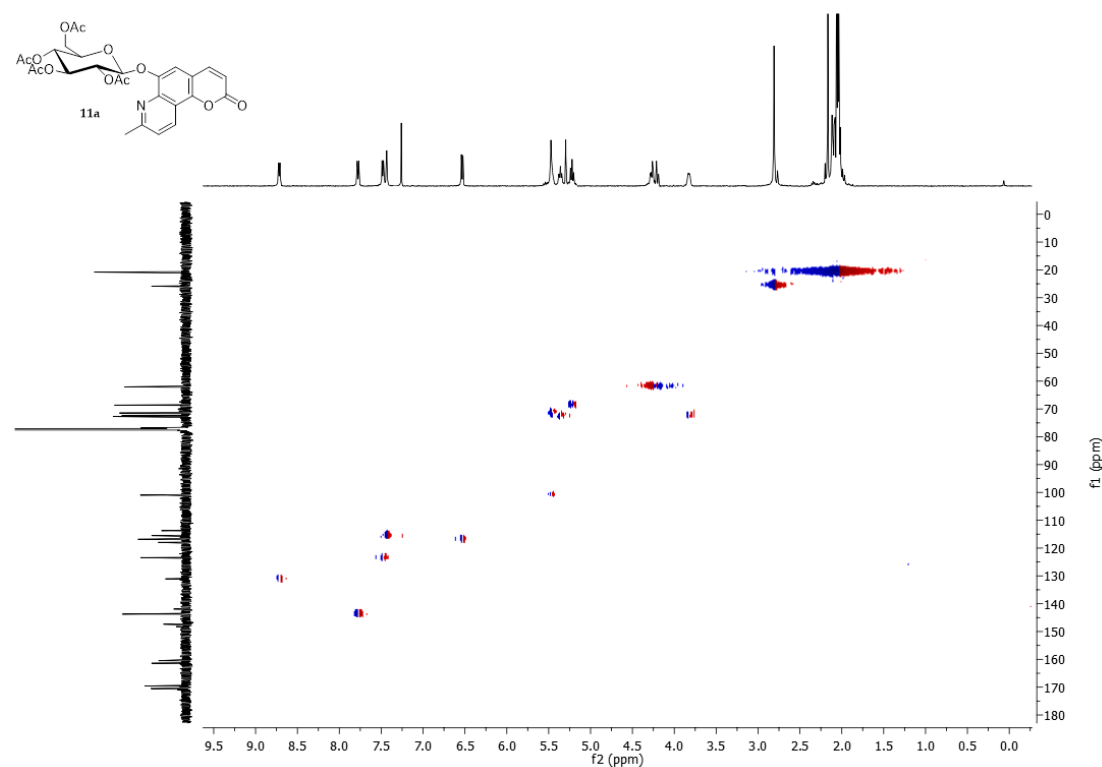


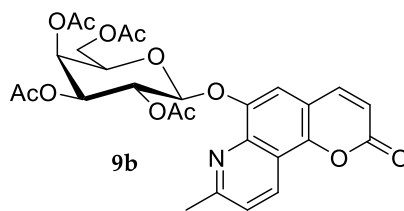
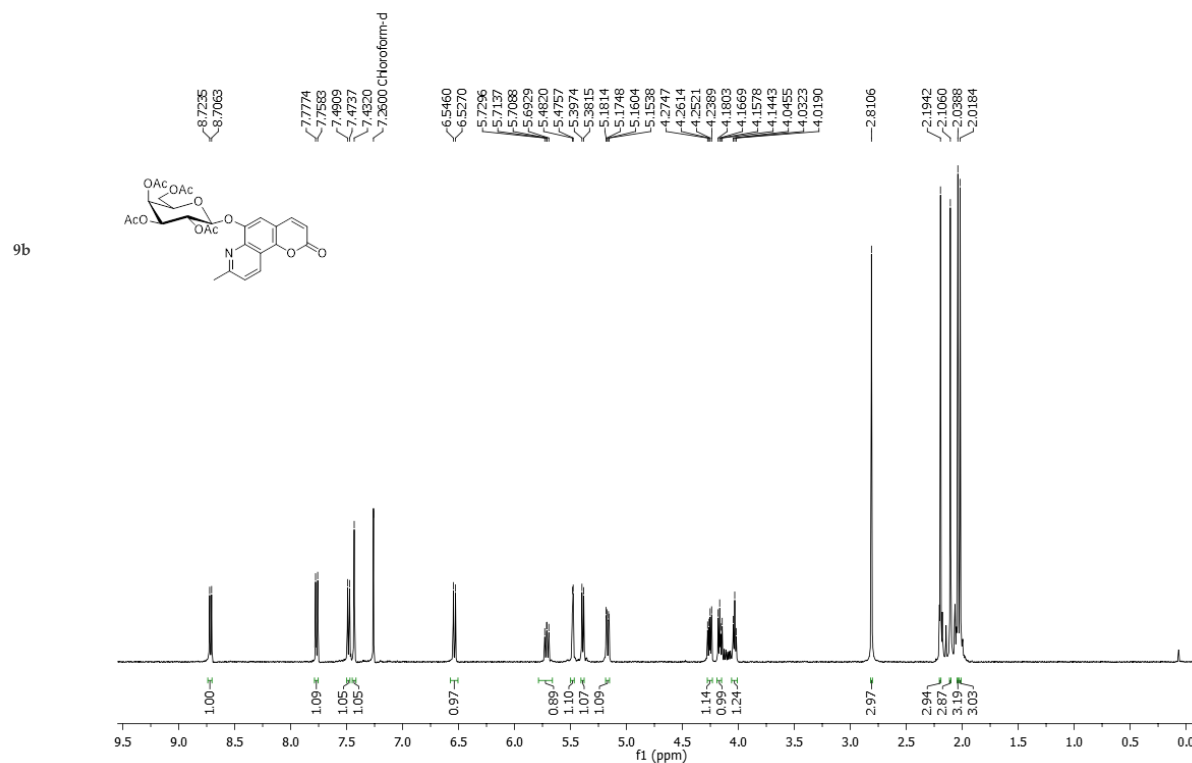
9a

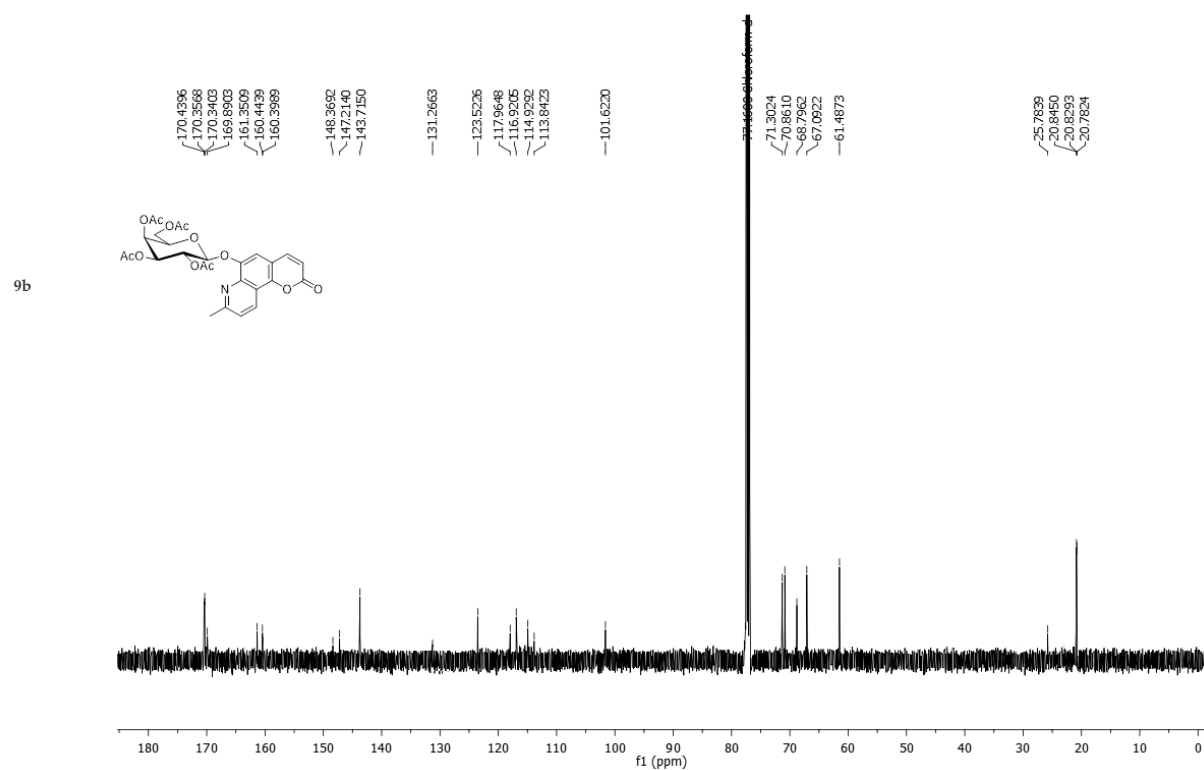
¹HNMR:

¹³CNMR:

gHSQC AD:



9b¹HNMR:

¹³CNMR:

gHSQC AD:

