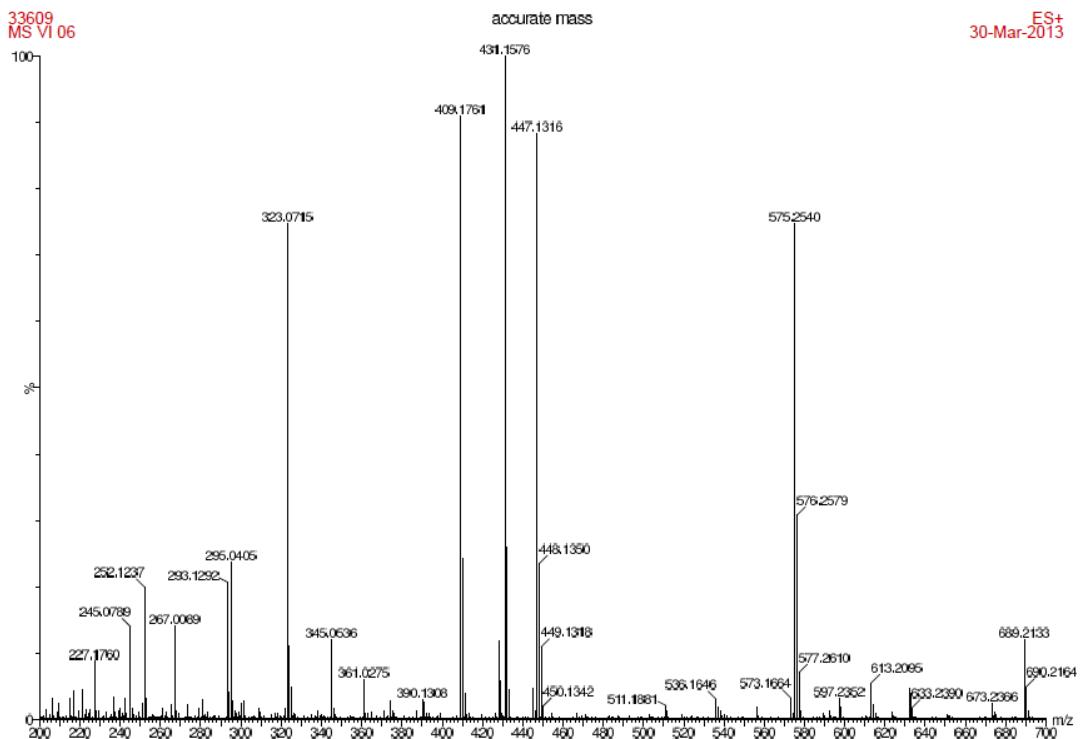


# Supporting Materials

## $^1\text{H}$ and $^{13}\text{C}$ -NMR Spectra

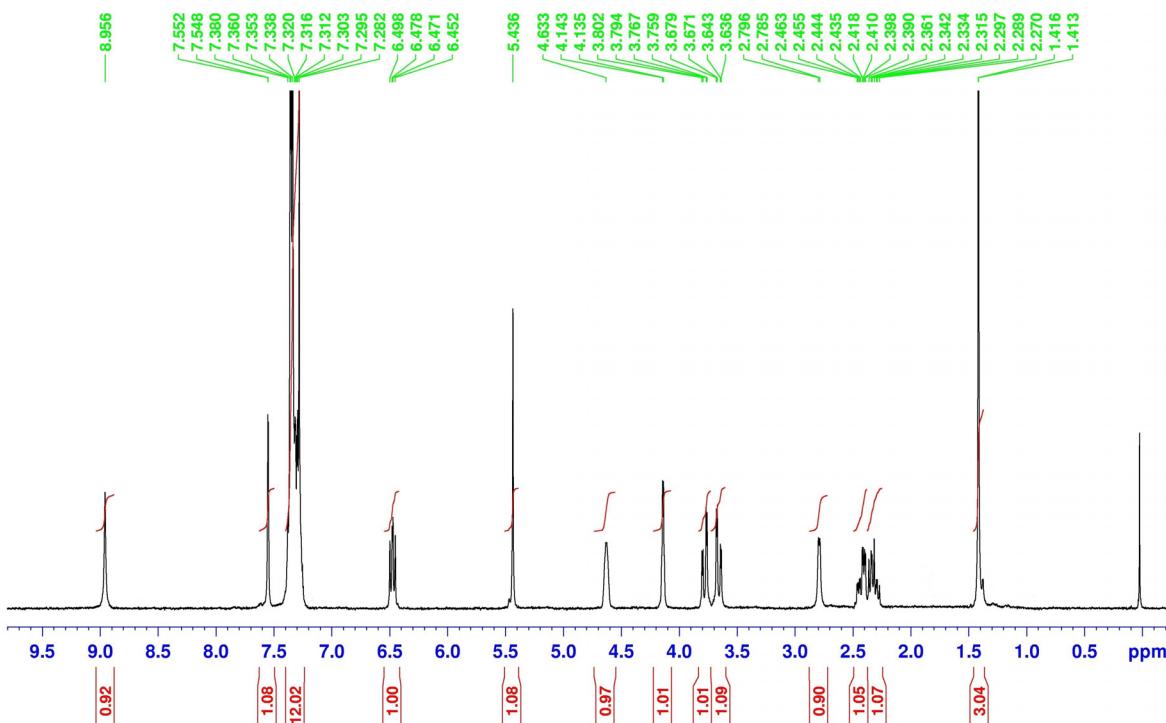
**Figure S1.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 5'-O-benzhydryl-thymidine (**3a**).

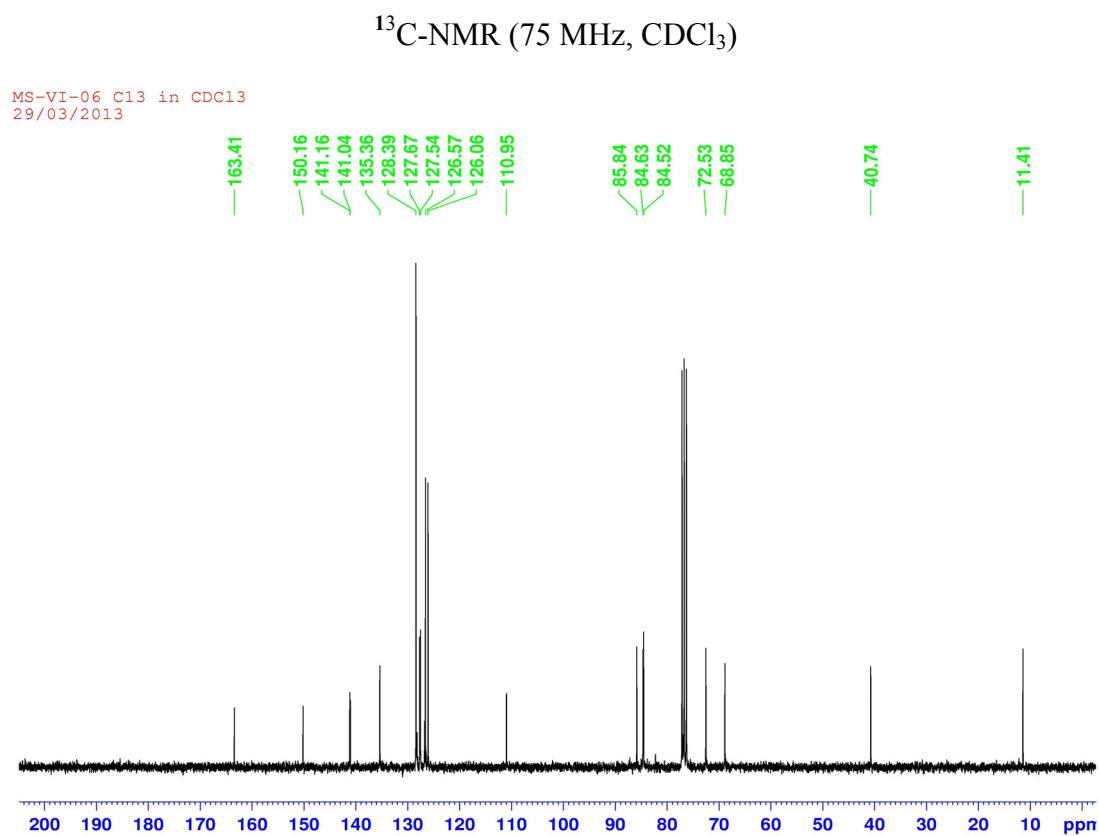
HRMS (ES+)



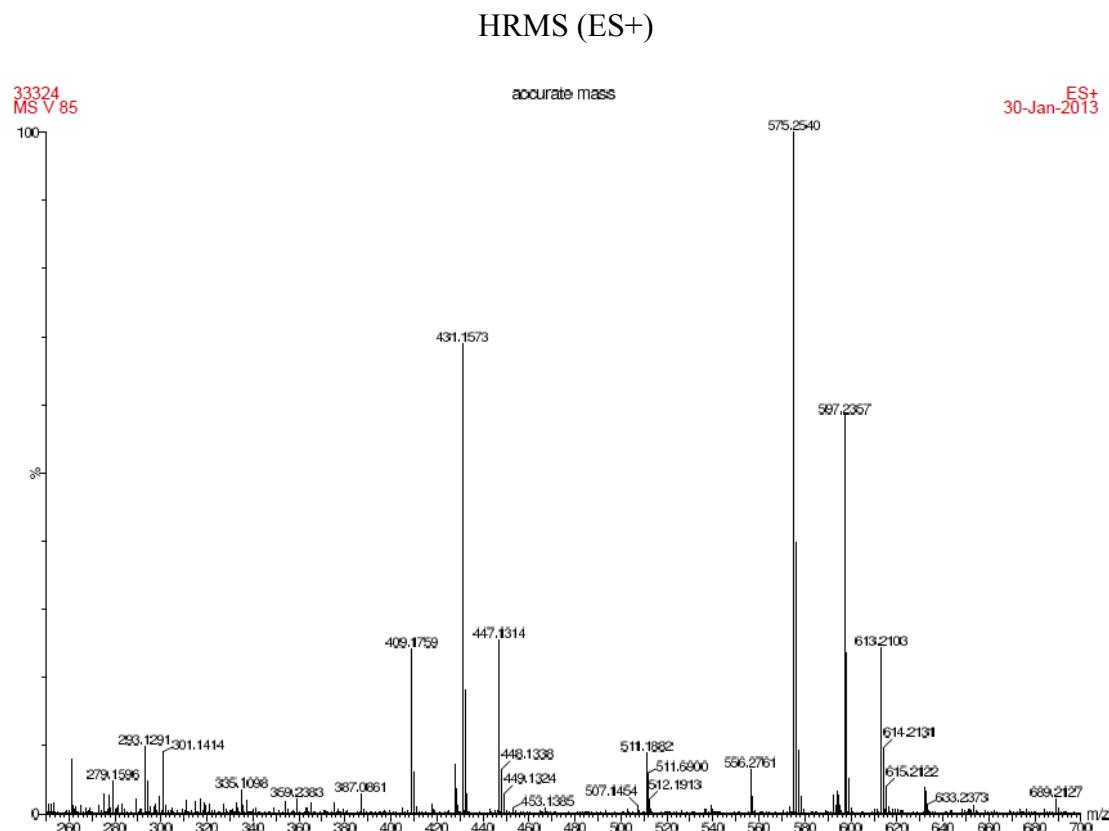
$^1\text{H}$ -NMR (300 MHz,  $\text{CDCl}_3$ )

MS-VI-06 in  $\text{CDCl}_3$   
29/03/2013



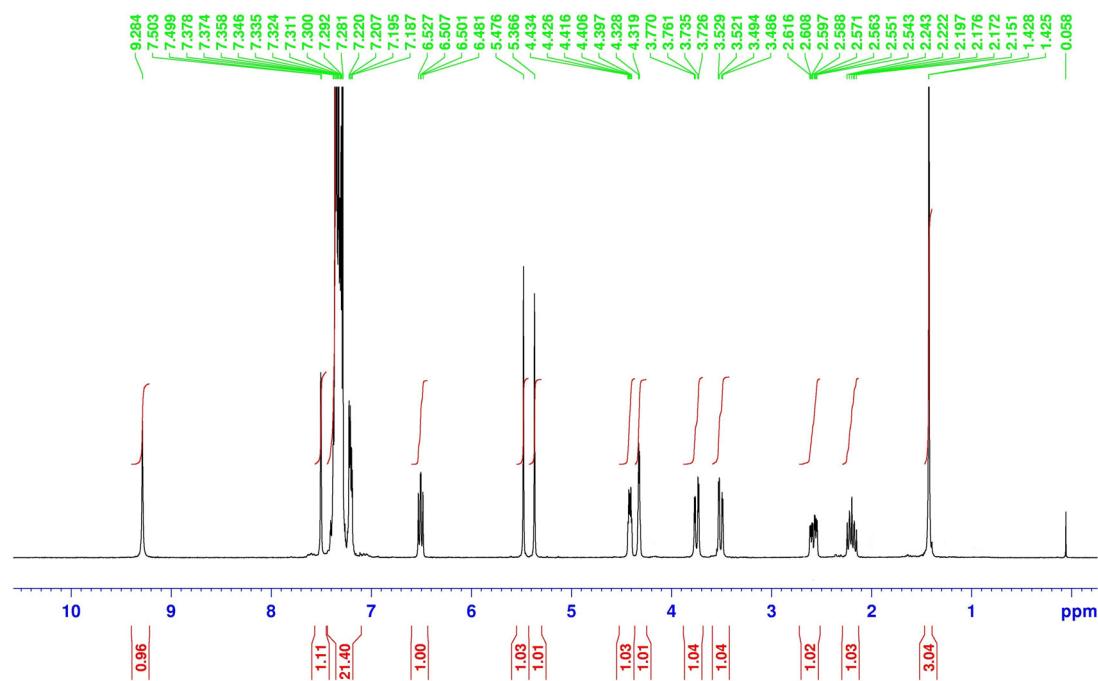


**Figure S2.** <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of 3',5'-di-*O*-benzhydryl-thymidine (**3b**).

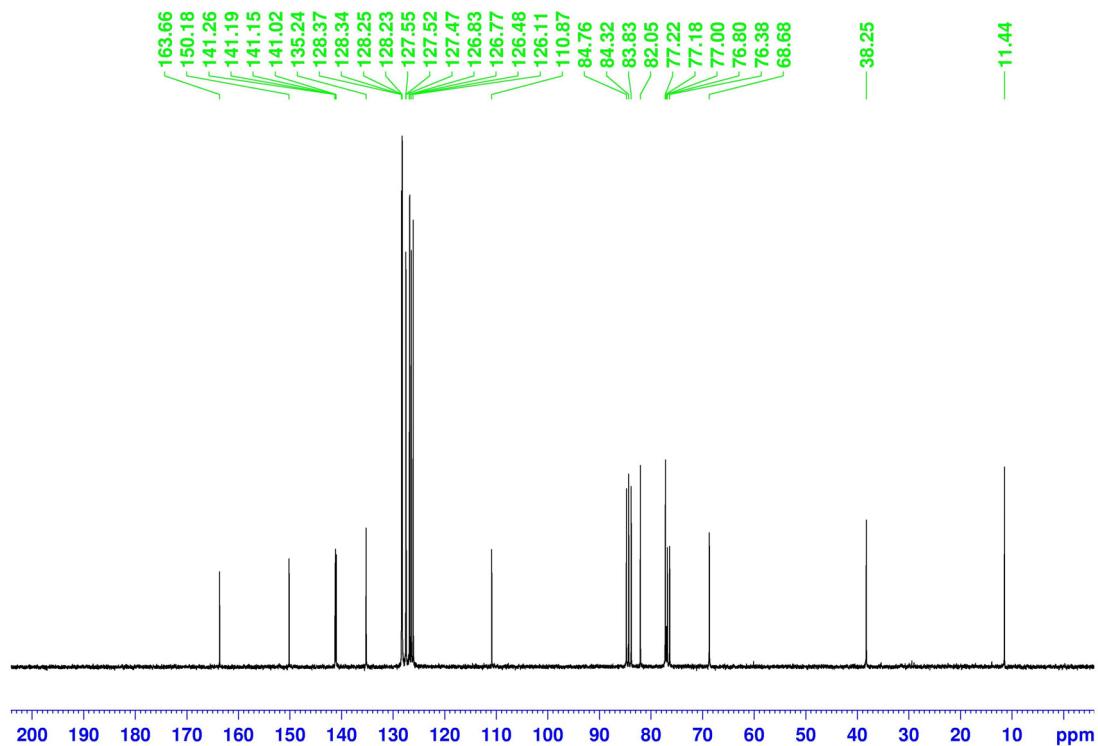


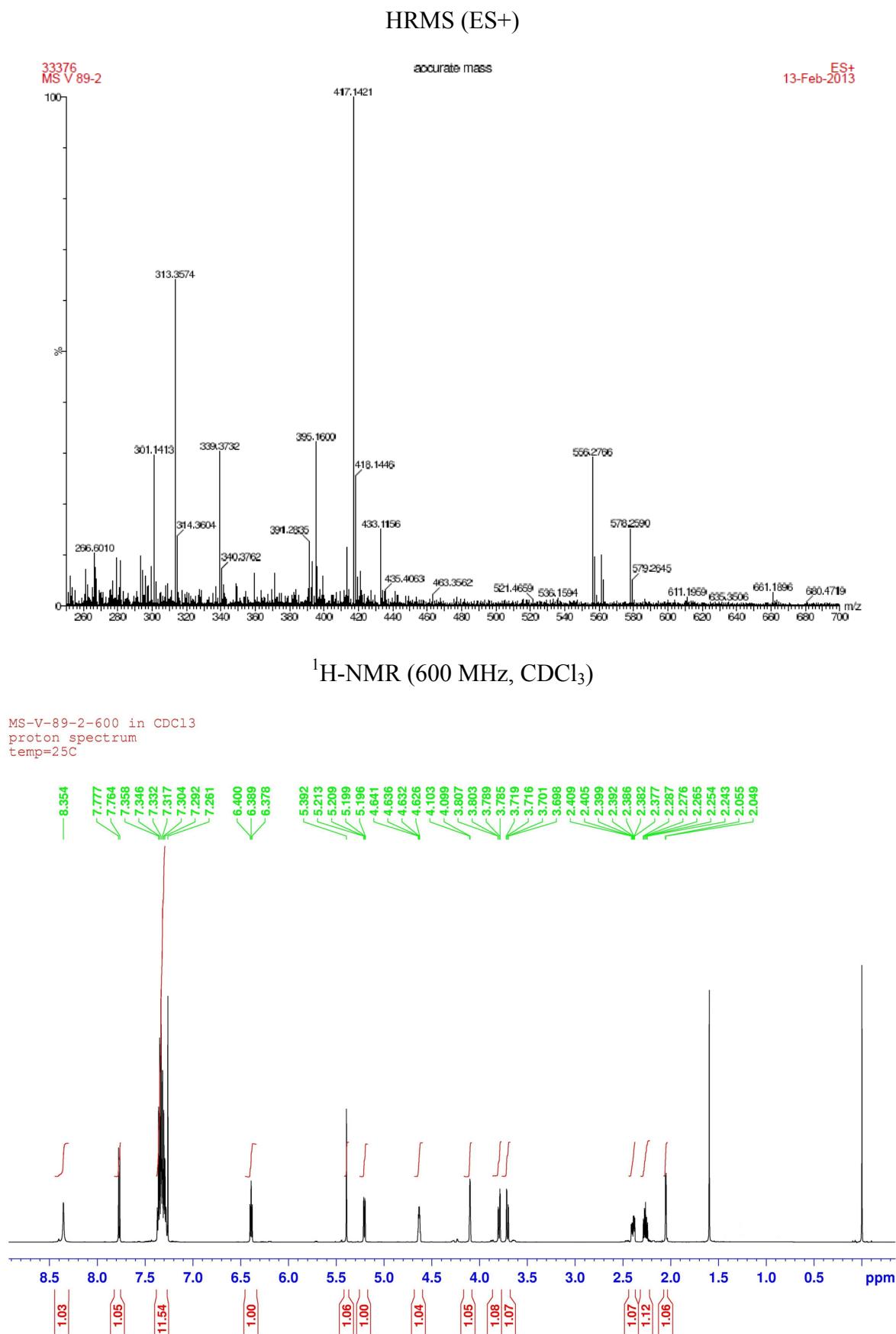
<sup>1</sup>H-NMR (300 MHz, CDCl<sub>3</sub>)

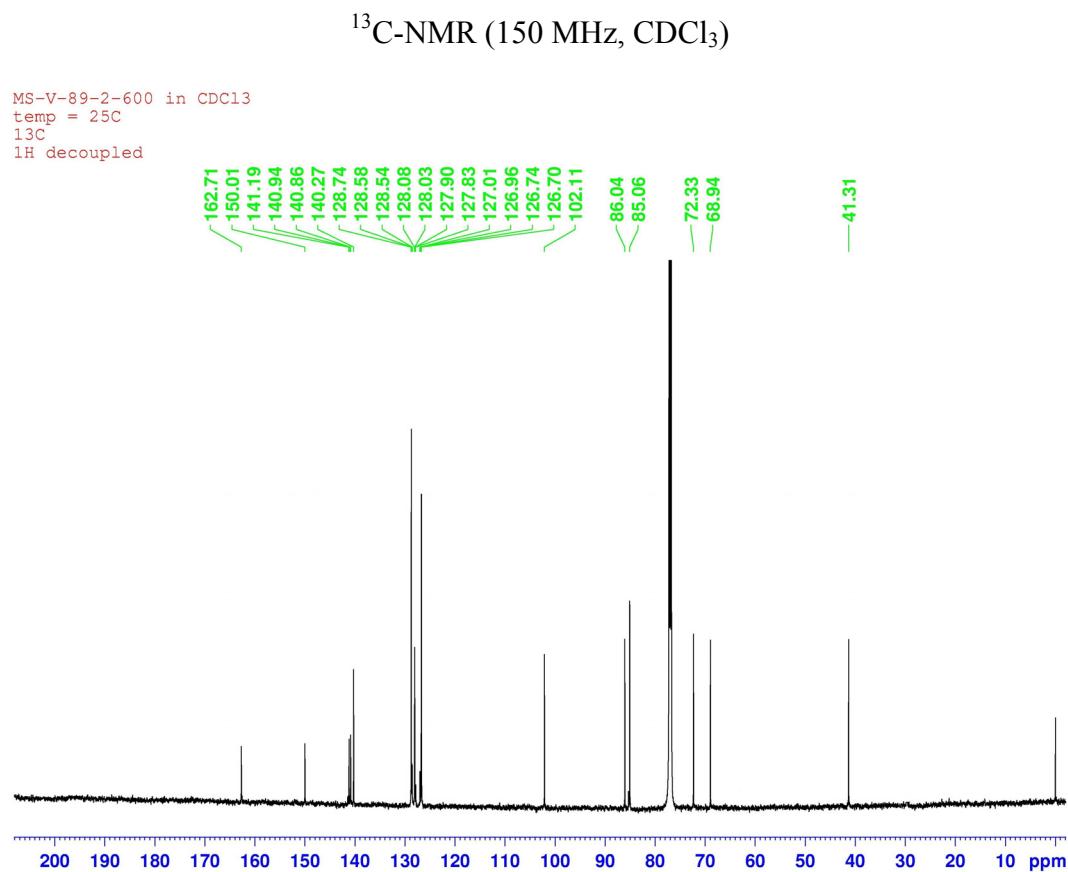
MS-V-85 in CDCl<sub>3</sub>  
03/04/2013

<sup>13</sup>C-NMR (75 MHz, CDCl<sub>3</sub>)

MS-V-85 in CDCl<sub>3</sub>  
03/04/2013

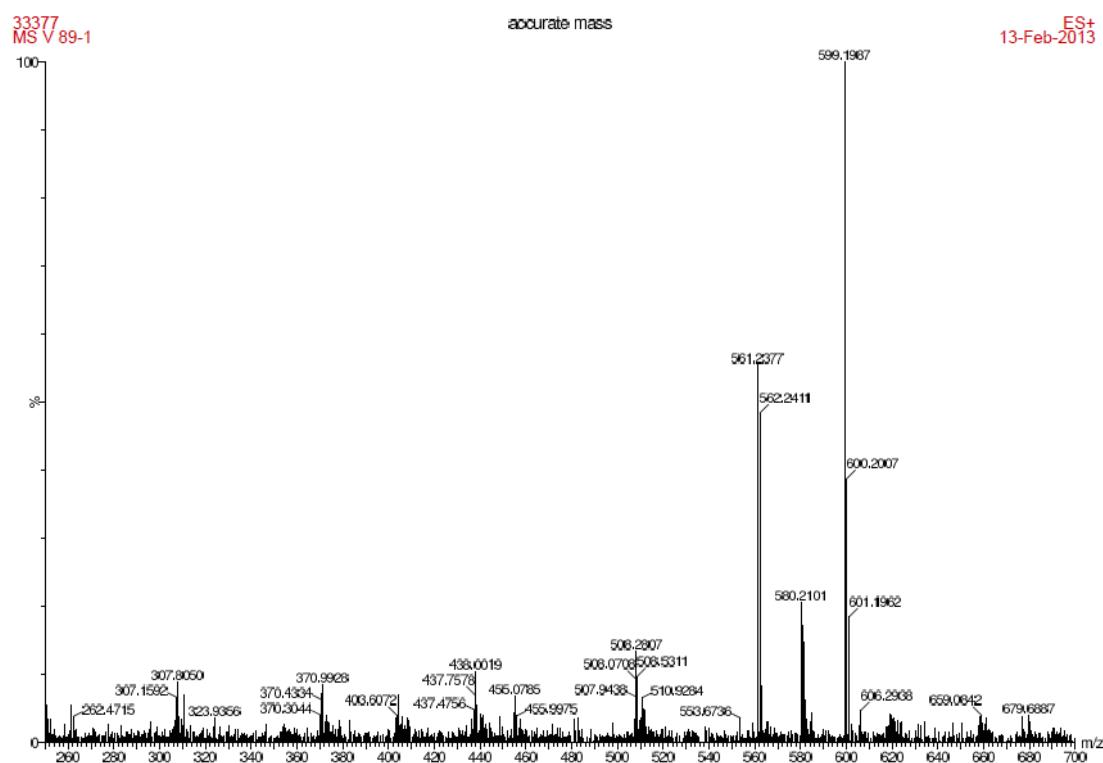


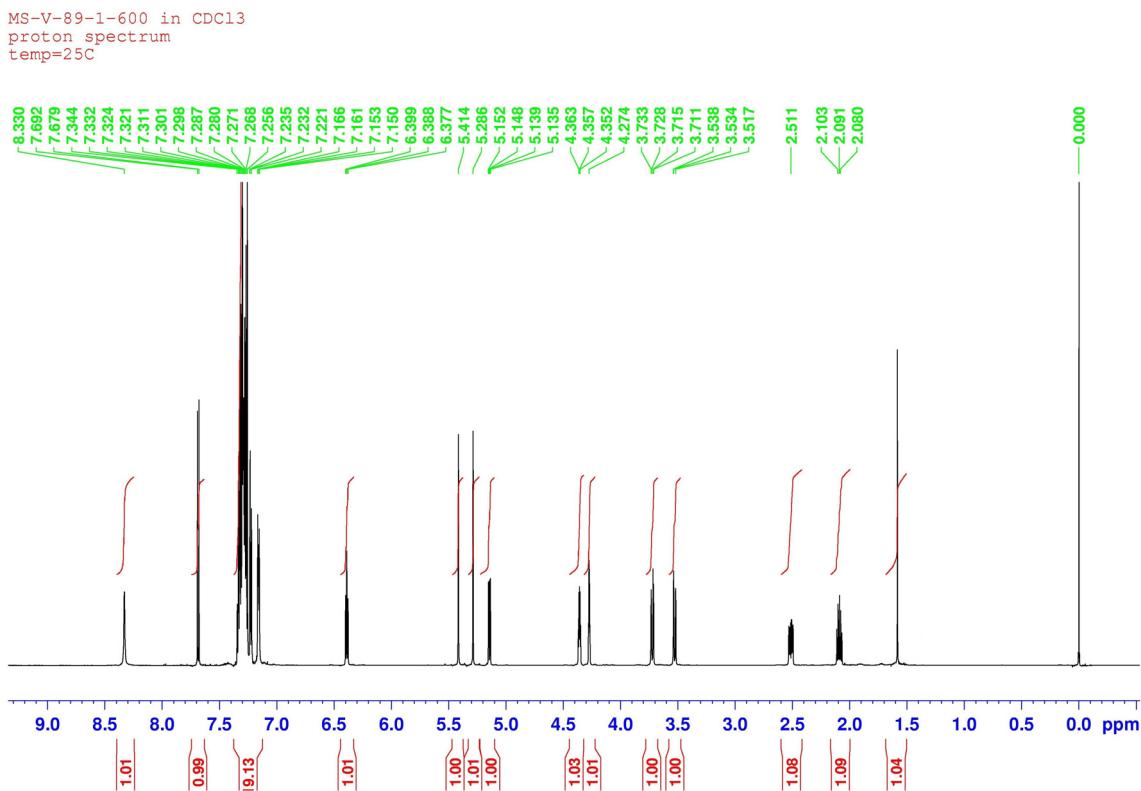
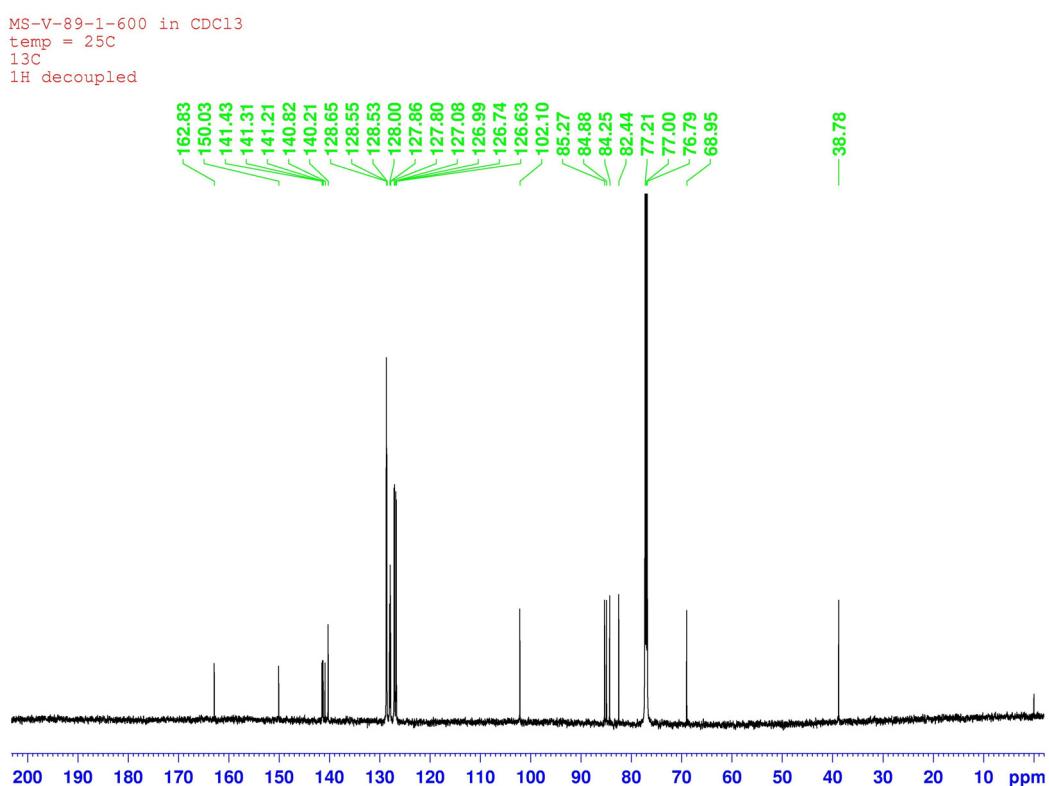
**Figure S3.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 5'-*O*-benzhydryl-2'-deoxyuridine (**6a**).

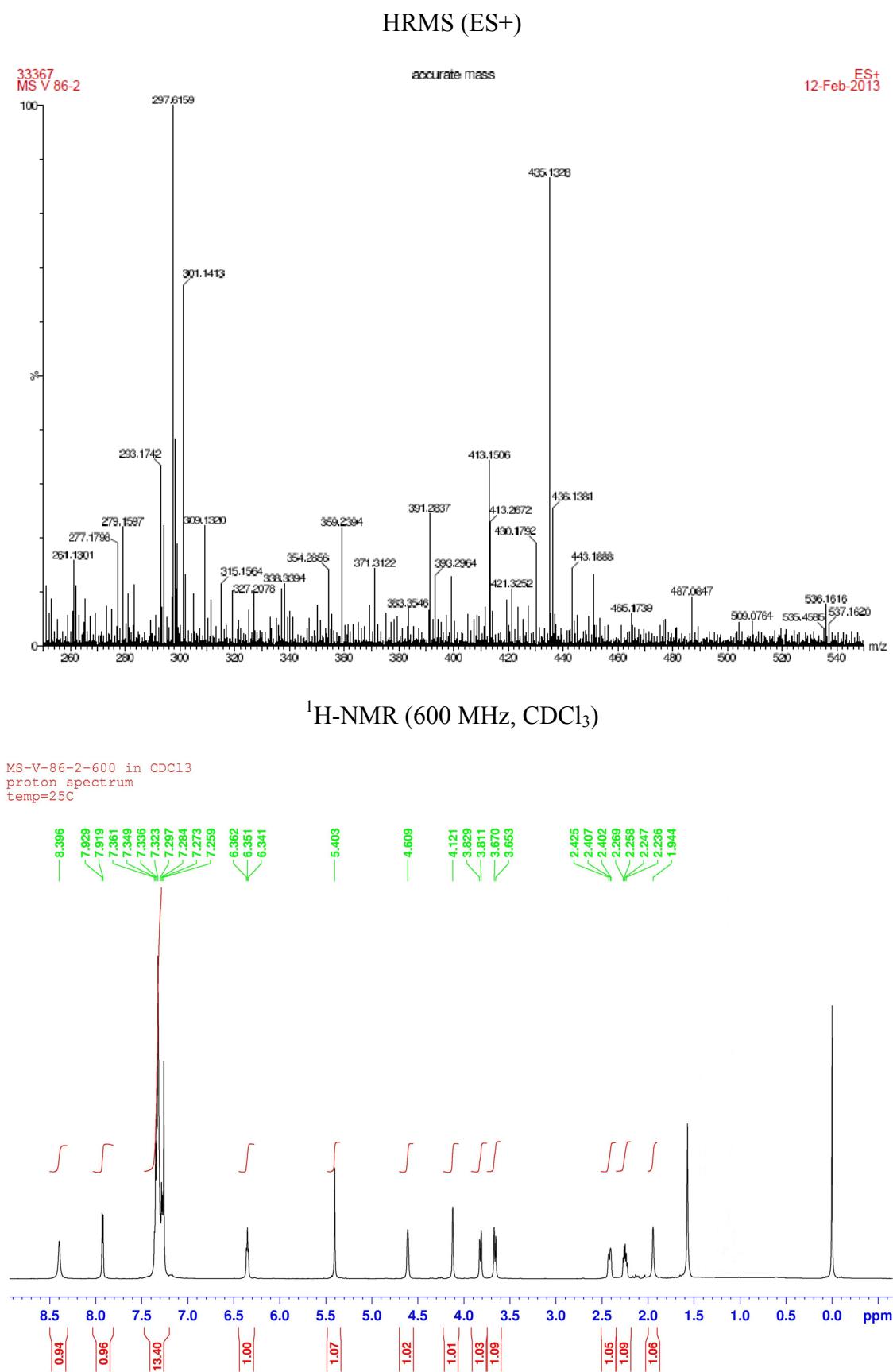


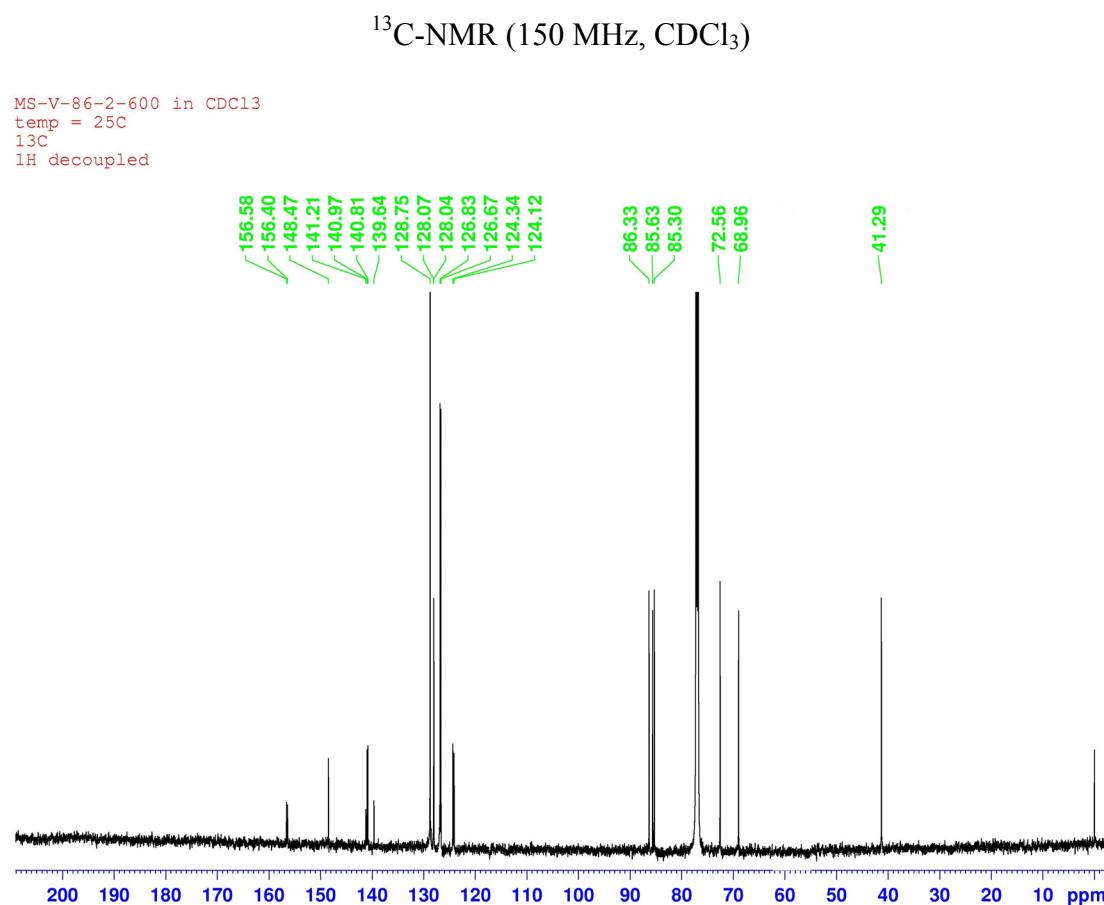
**Figure S3.** <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of 3',5'-di-O-benzhydryl-2'-deoxyuridine (**6b**).

HRMS (ES+)



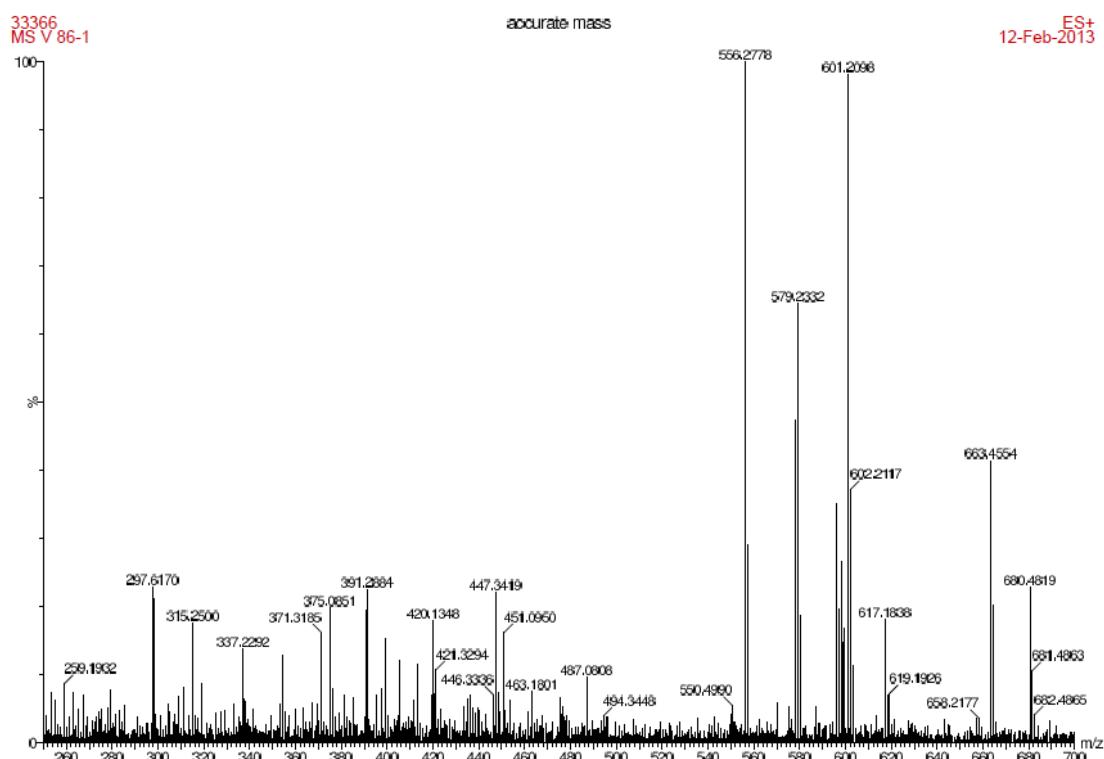
<sup>1</sup>H-NMR (600 MHz, CDCl<sub>3</sub>)<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)

**Figure S4.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 5'-*O*-benzhydryl-5-fluoro-2'-deoxyuridine (**7a**)



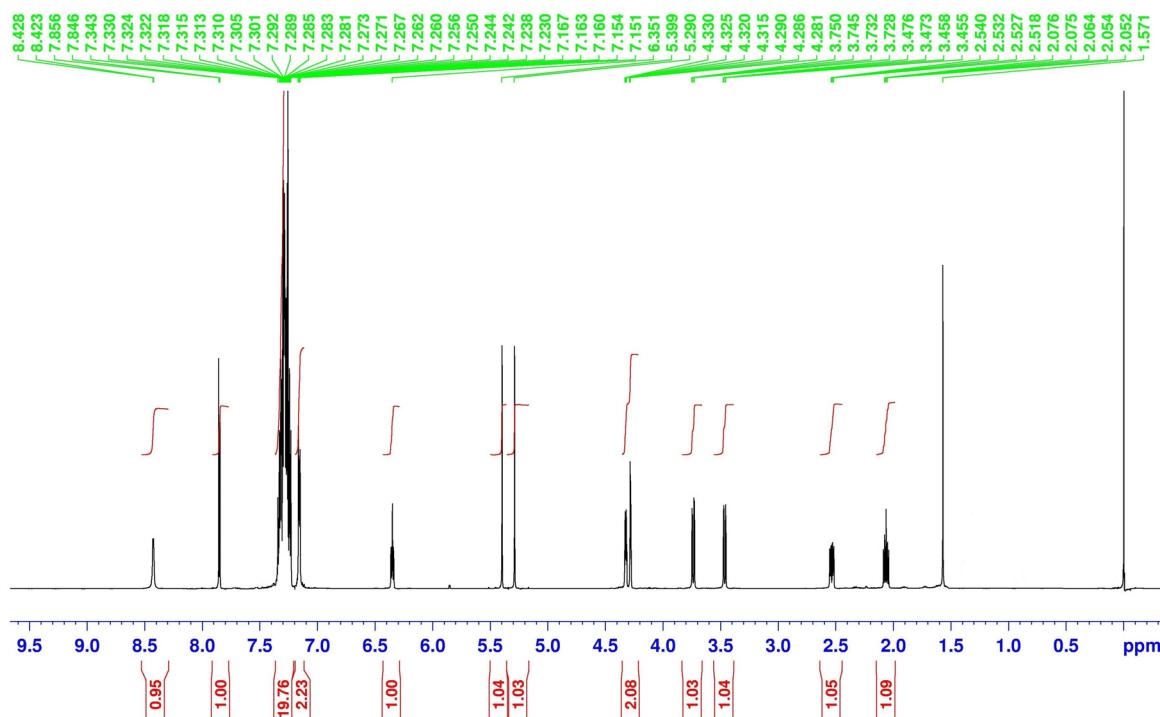
**Figure S5.** <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of 3',5'-di-O-benzhydryl-5-fluoro-2'-deoxyuridine (**7b**).

#### HRMS (ES+)

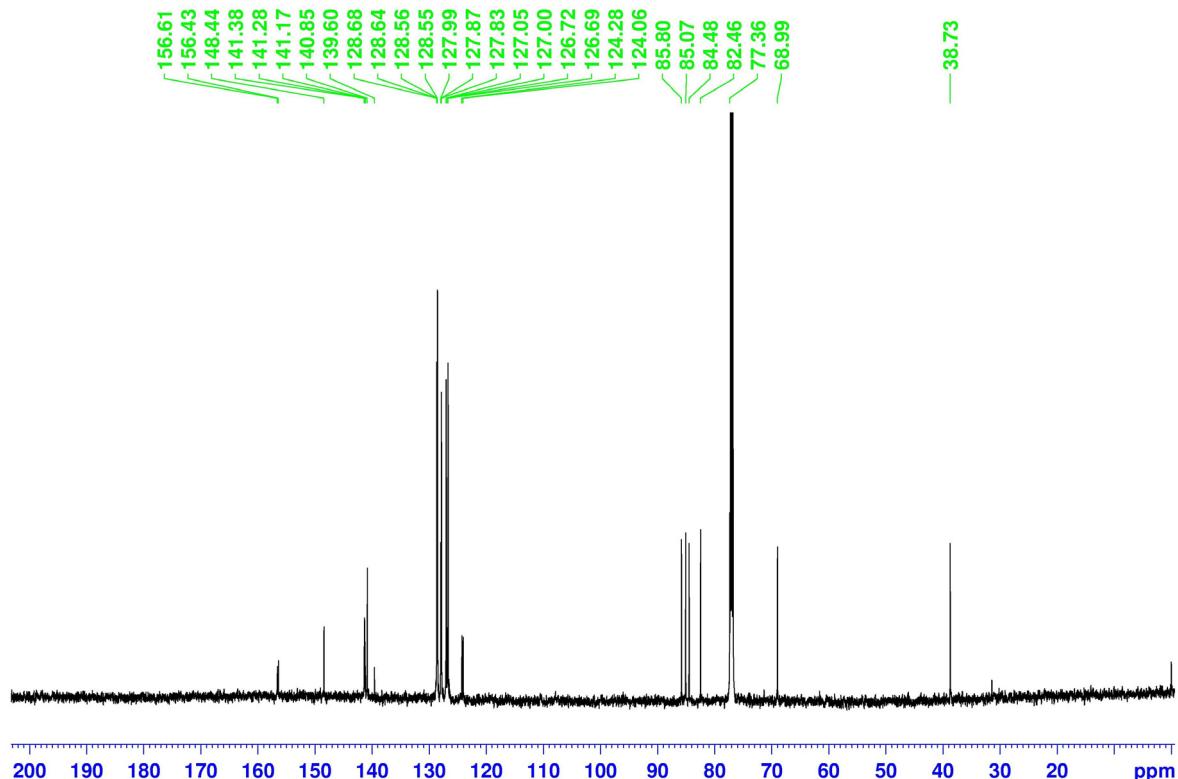


<sup>1</sup>H-NMR (600 MHz, CDCl<sub>3</sub>)

MS-V-86-1-600 in CDCl<sub>3</sub>  
proton spectrum  
temp=25C

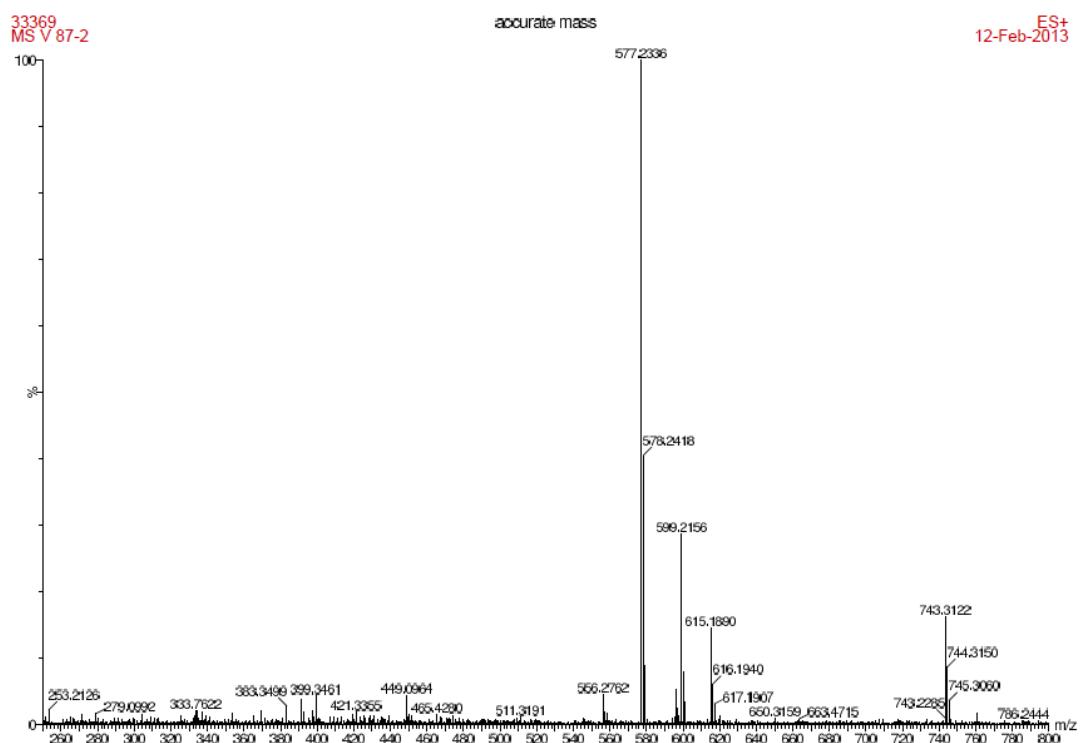
<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)

MS-V-86-1-600 in CDCl<sub>3</sub>  
temp = 25C  
<sup>13</sup>C  
<sup>1</sup>H decoupled

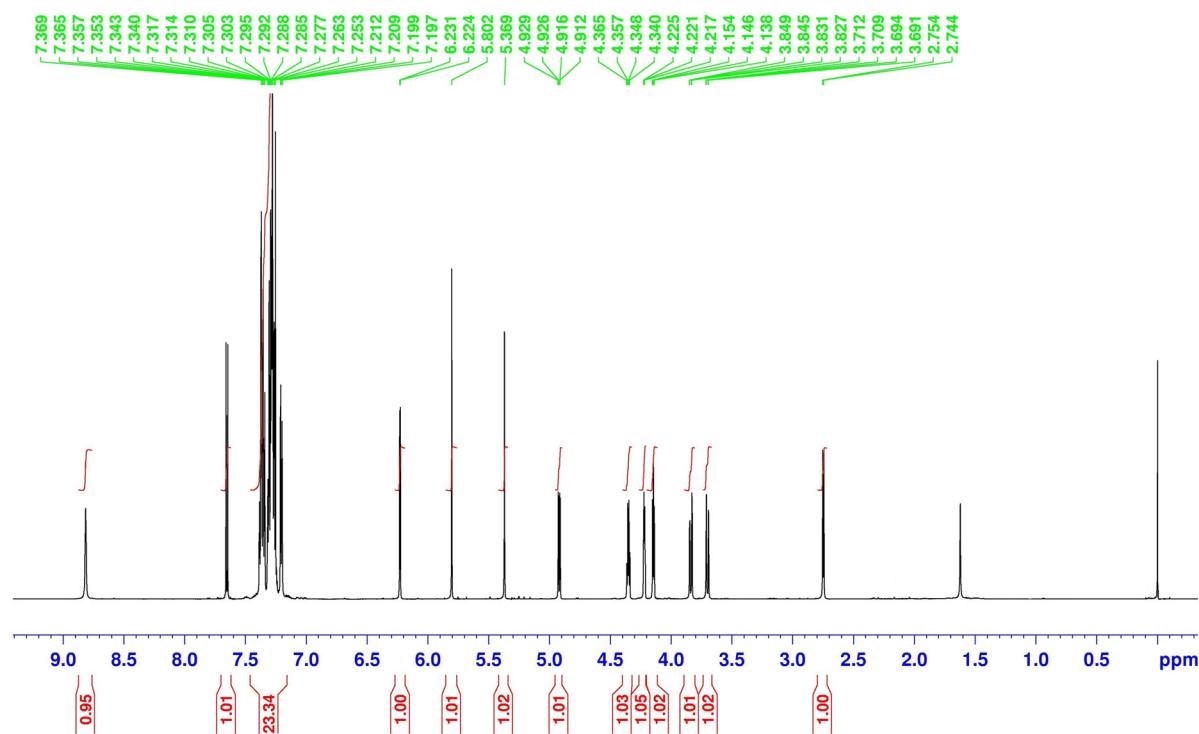


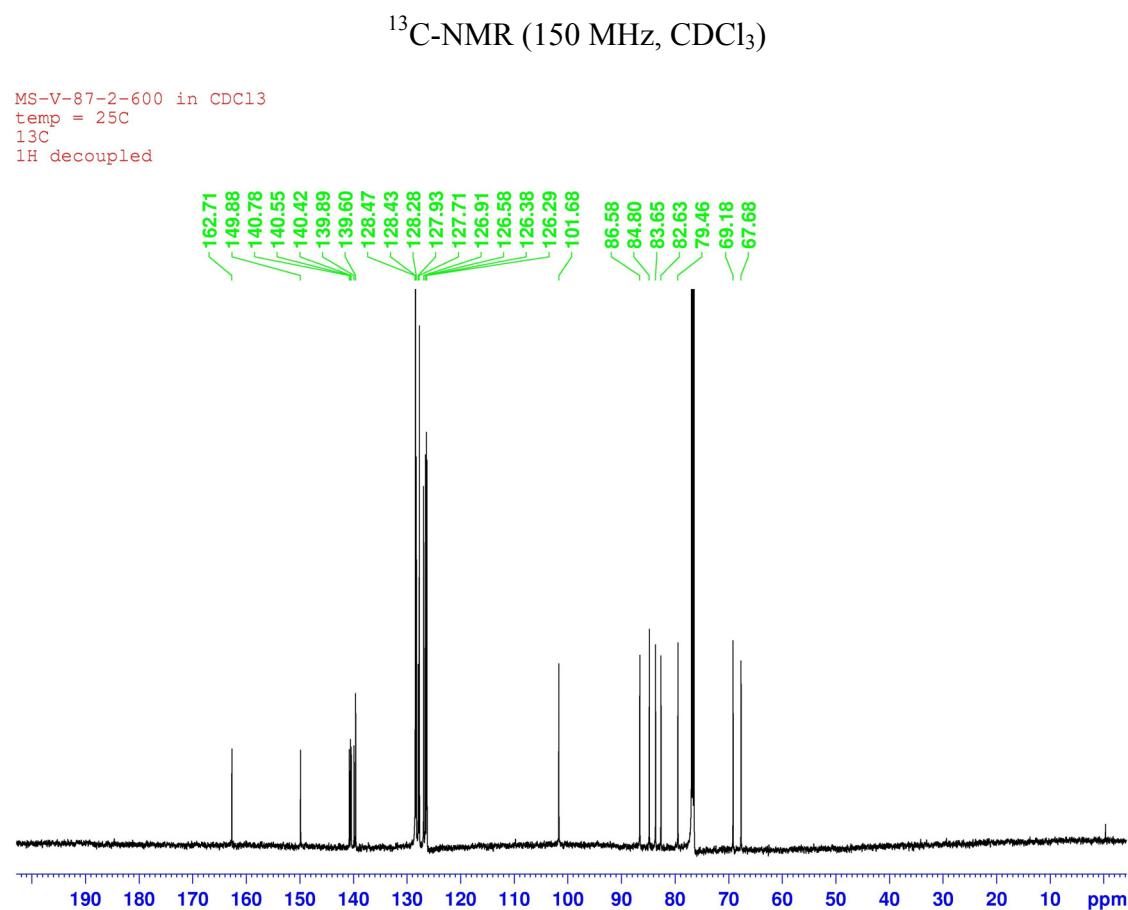
**Figure S6.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 2',5'-di-*O*-benzhydryl-uridine (**8b**).

HRMS (ES+)

 $^1\text{H}$ -NMR (600 MHz,  $\text{CDCl}_3$ )

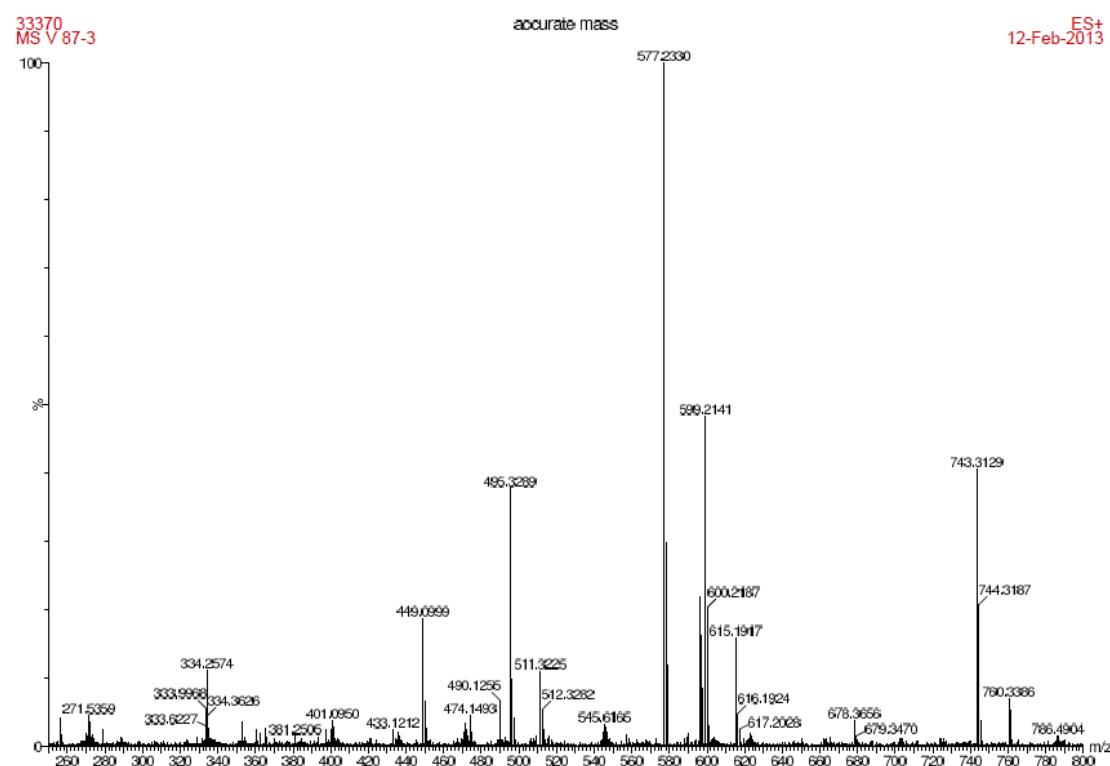
MS-V-87-2-600 in  $\text{CDCl}_3$   
proton spectrum  
temp=25C





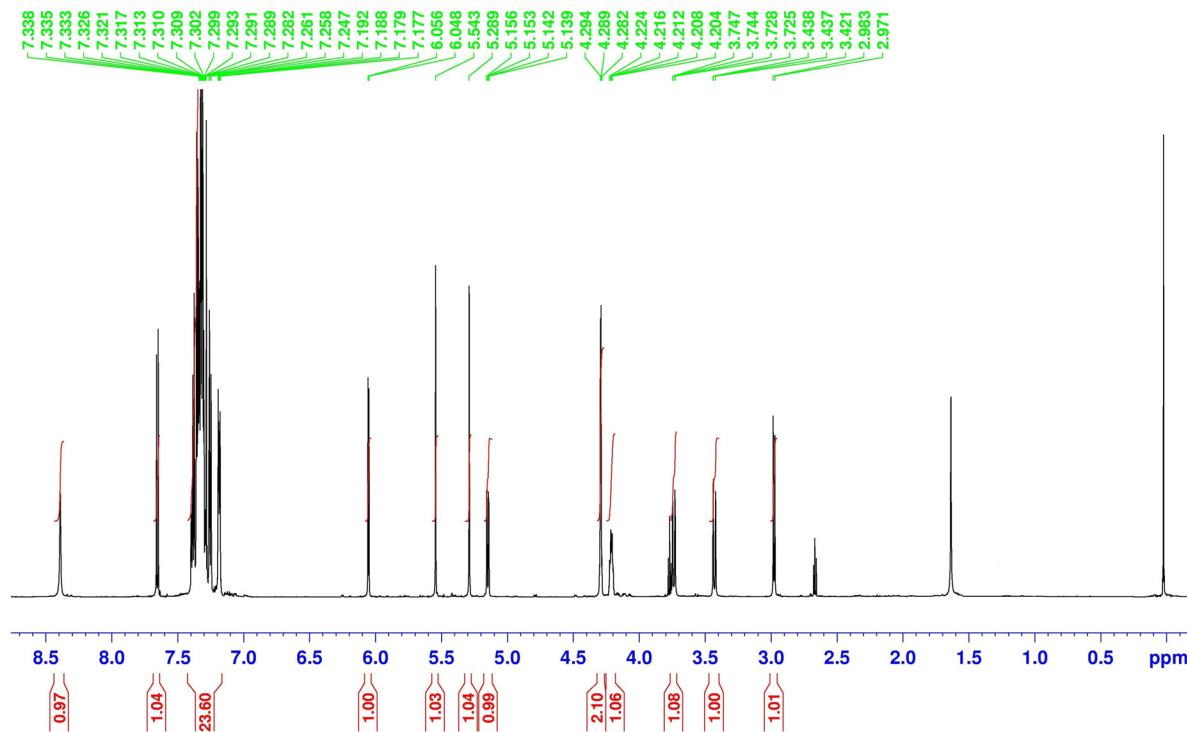
**Figure S7.** <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of 3',5'-di-*O*-benzhydryl-uridine (**8c**)

HRMS (ES+)

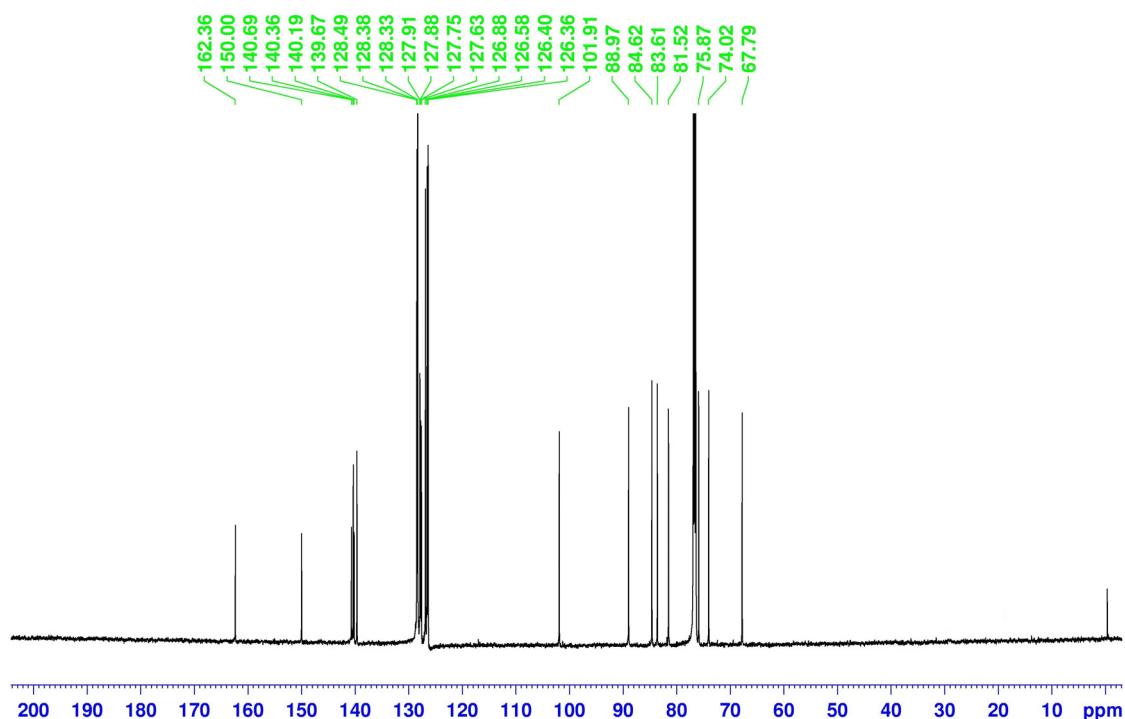


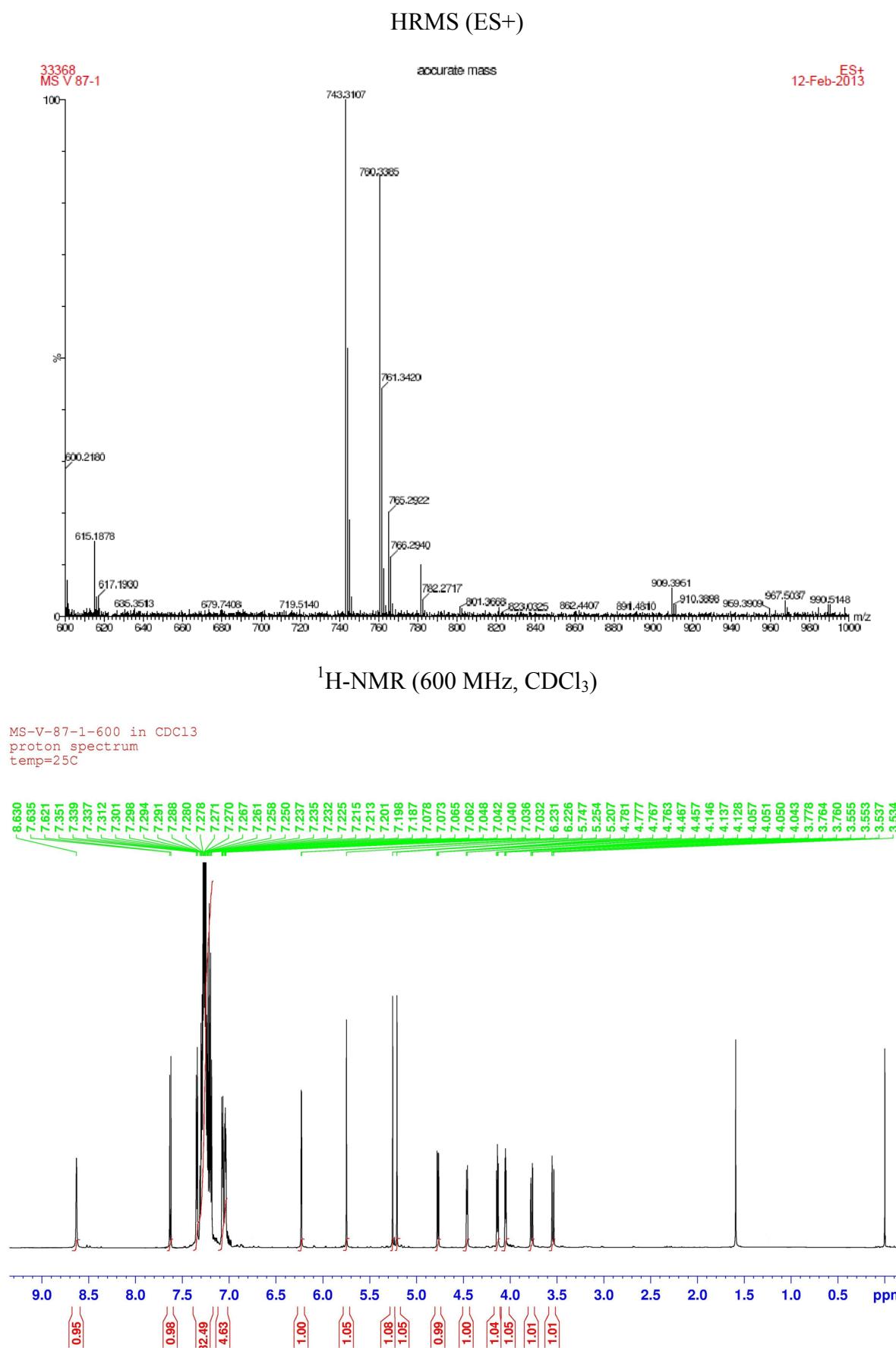
<sup>1</sup>H-NMR (600 MHz, CDCl<sub>3</sub>)

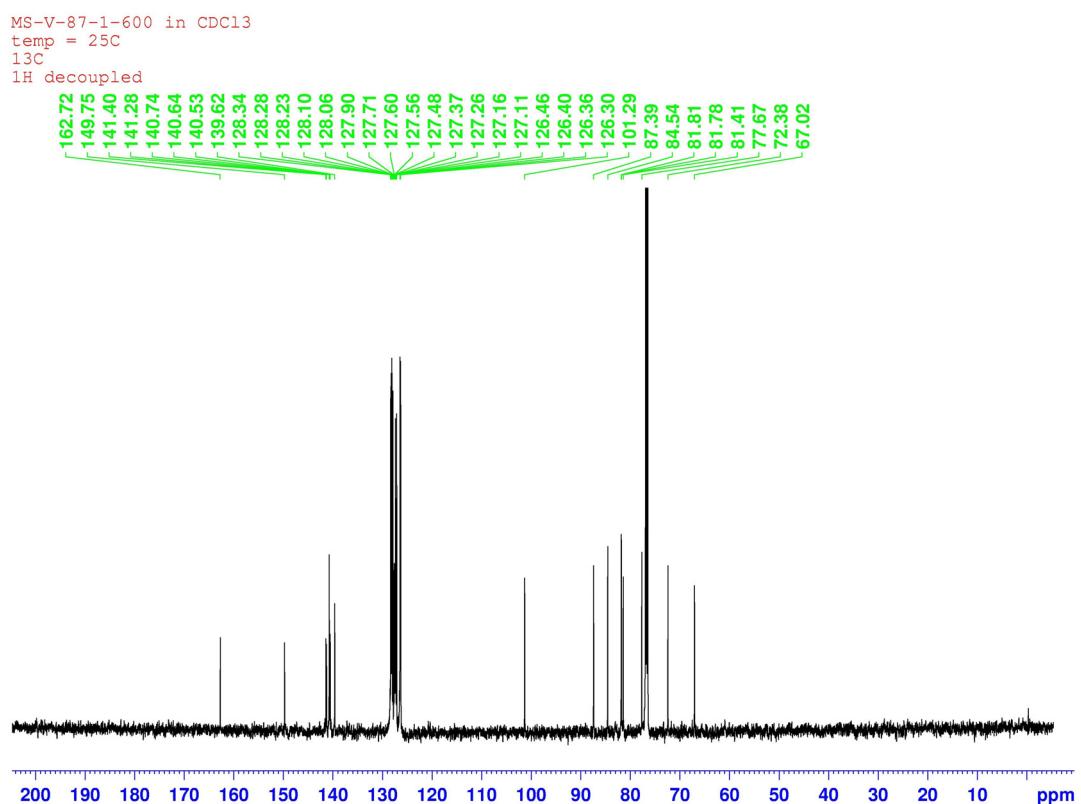
MS-V-87-3-600 in CDCl<sub>3</sub>  
proton spectrum  
temp=25C

<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)

MS-V-87-3-600 in CDCl<sub>3</sub>  
temp = 25C  
<sup>13</sup>C  
1H decoupled

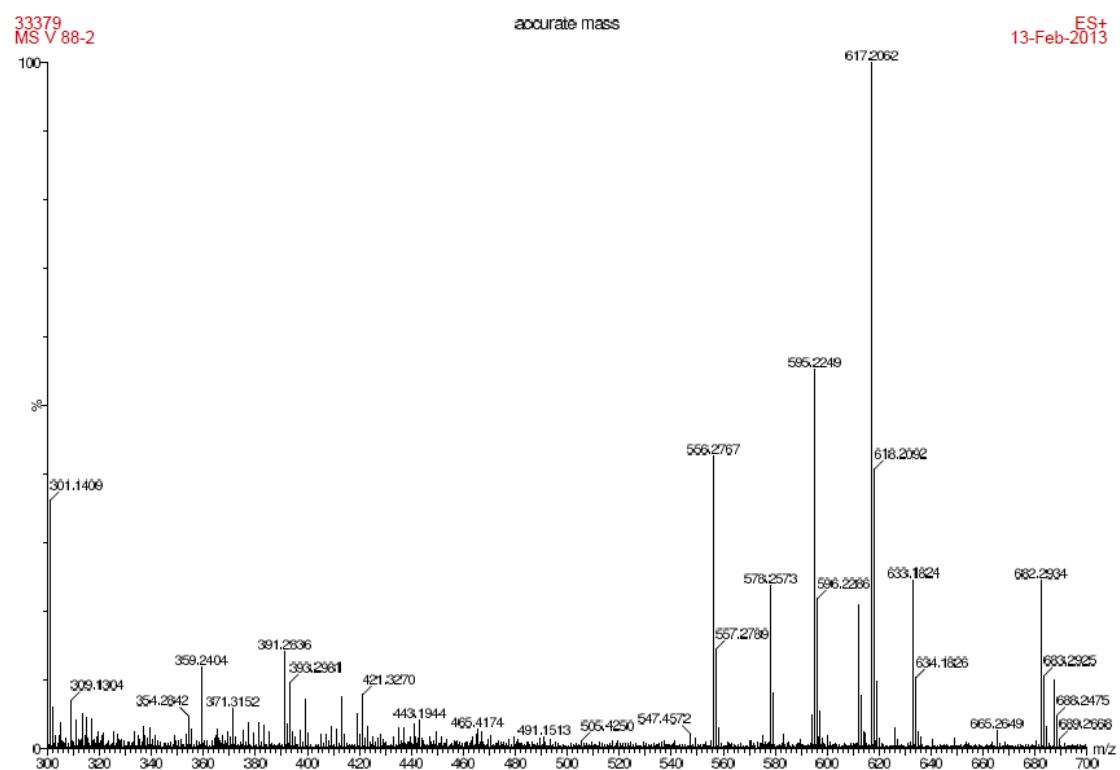


**Figure S7.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 2',3',5'-tri-*O*-benzhydryl-uridine (**8d**).

<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)

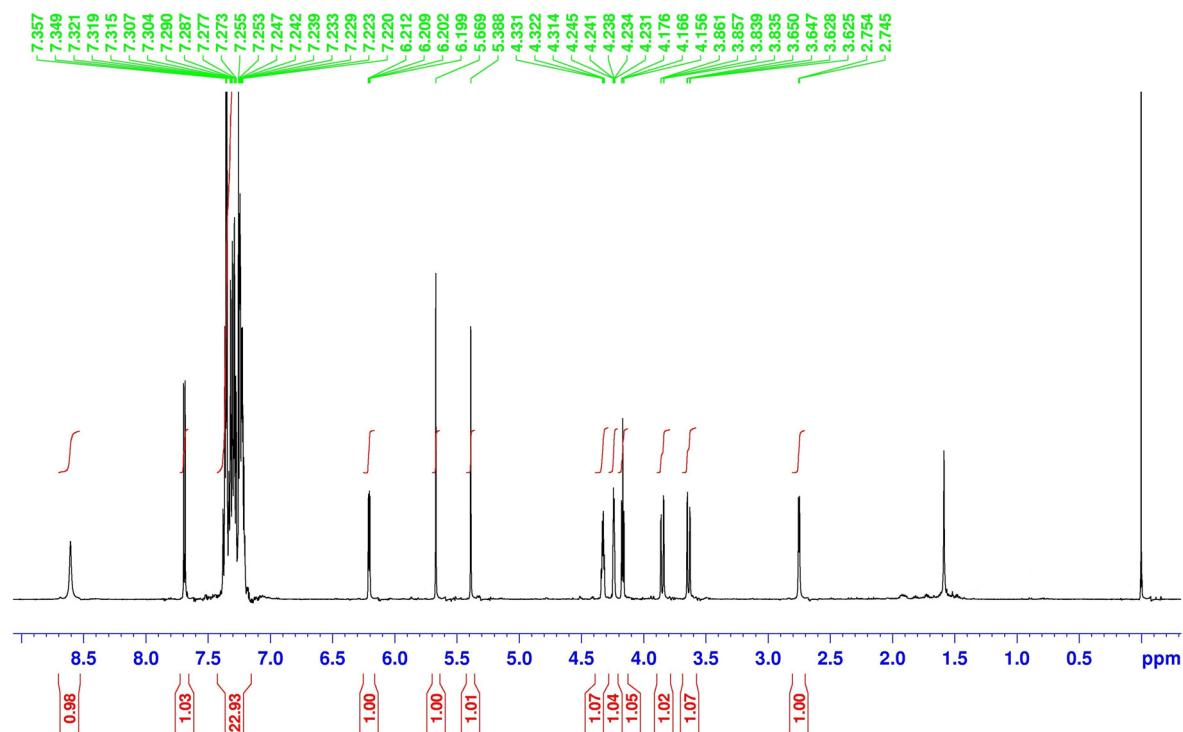
**Figure S8.** <sup>1</sup>H and <sup>13</sup>C-NMR Spectra of 2',5'-di-O-benzhydryl-5-fluorouridine (**9b**).

## HRMS (ES+)

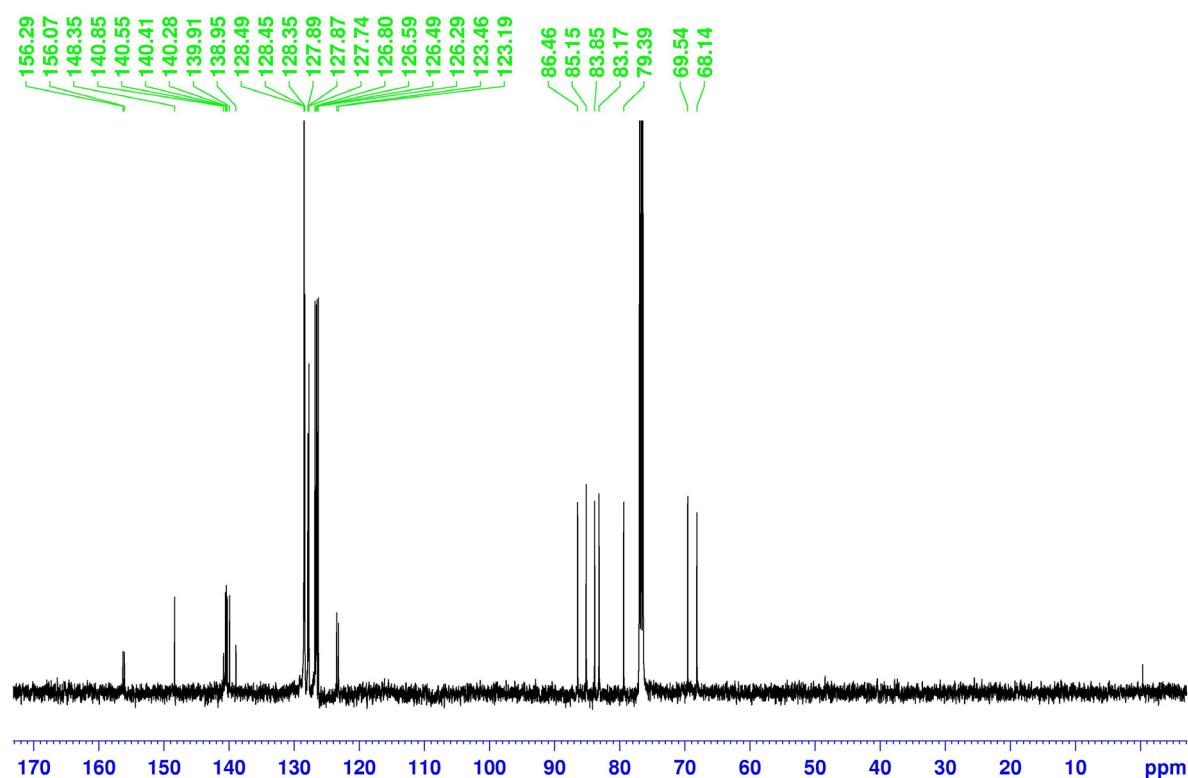


<sup>1</sup>H-NMR (600 MHz, CDCl<sub>3</sub>)

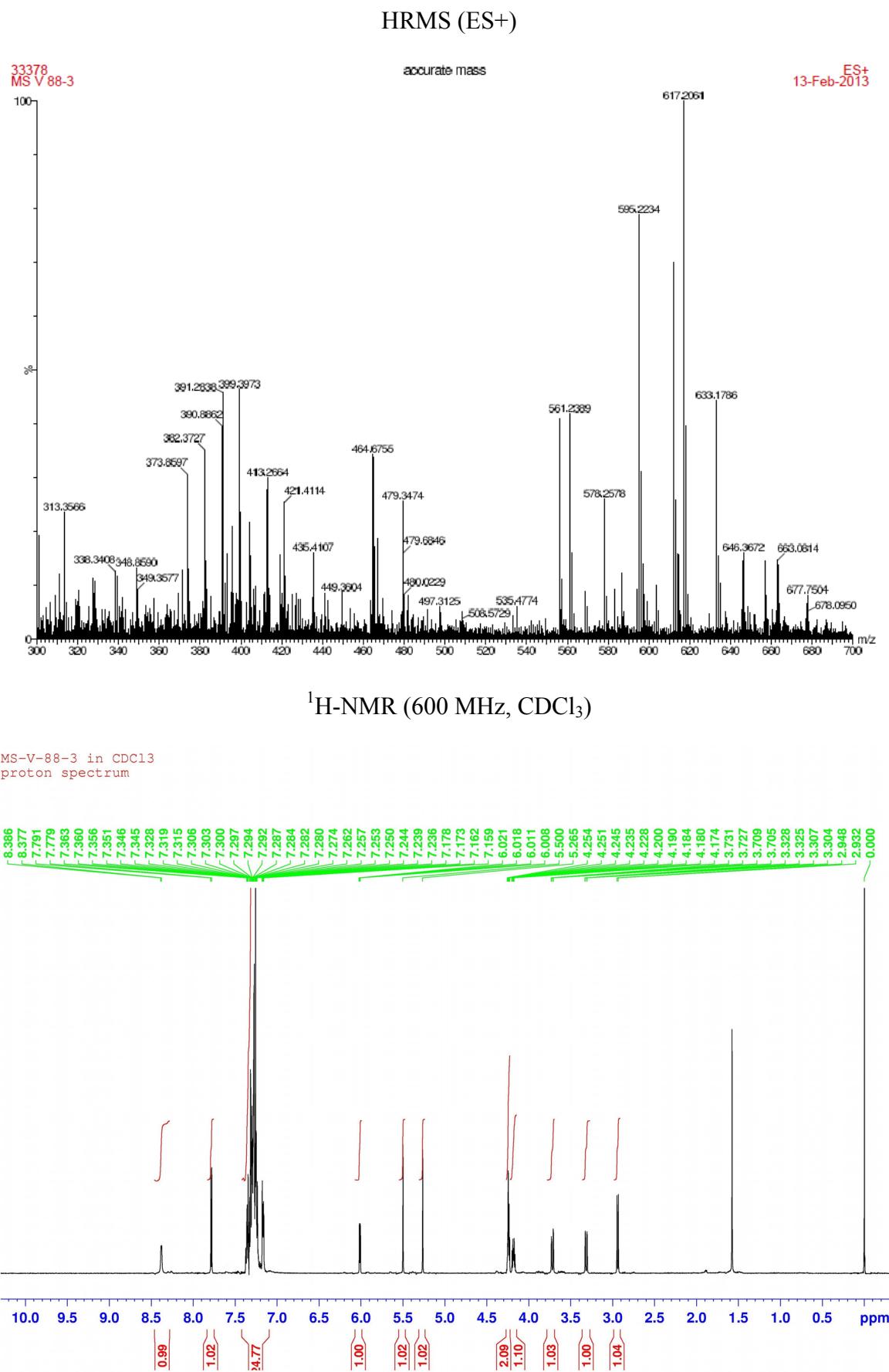
MS-V-88-2 in CDCl<sub>3</sub>  
proton spectrum

<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)

MS-V-88-2 in CDCl<sub>3</sub>  
carbon spectrum

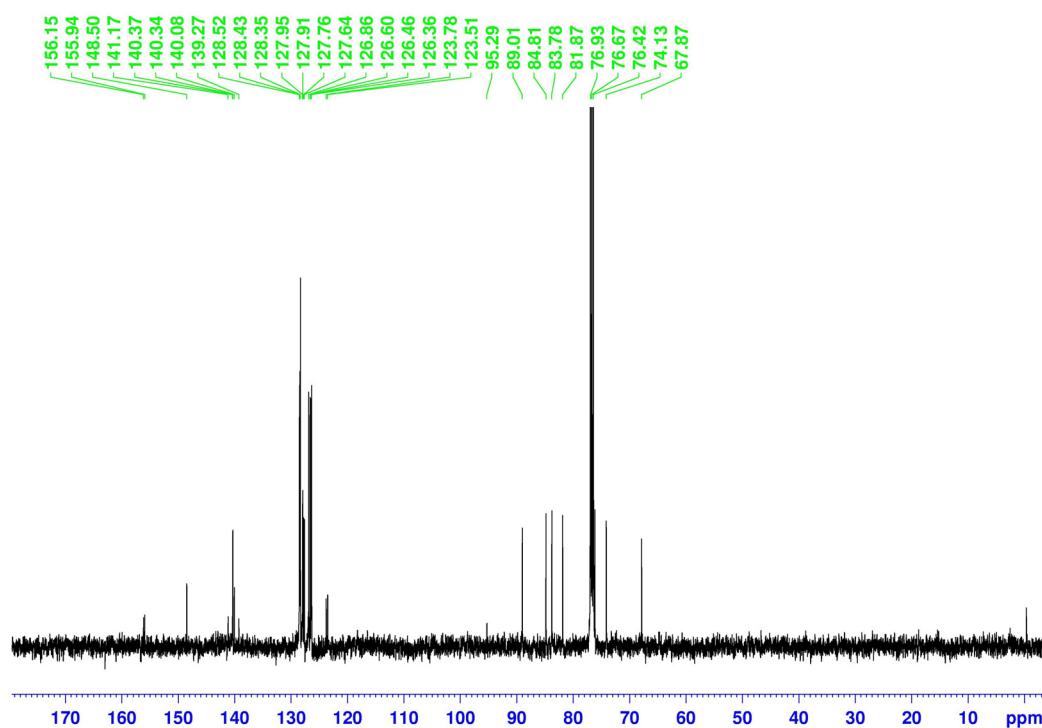


**Figure S9.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 3',5'-tri-*O*-benzhydryl-5-fluorouridine (**9c**).



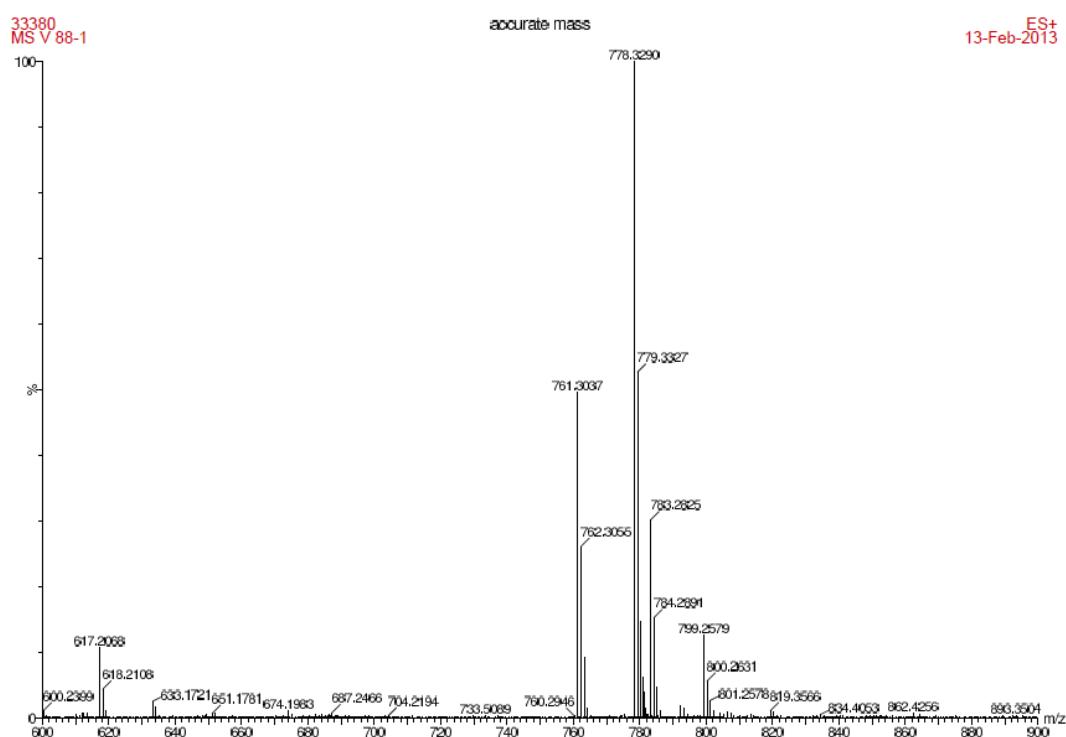
$^{13}\text{C}$ -NMR (150 MHz,  $\text{CDCl}_3$ )

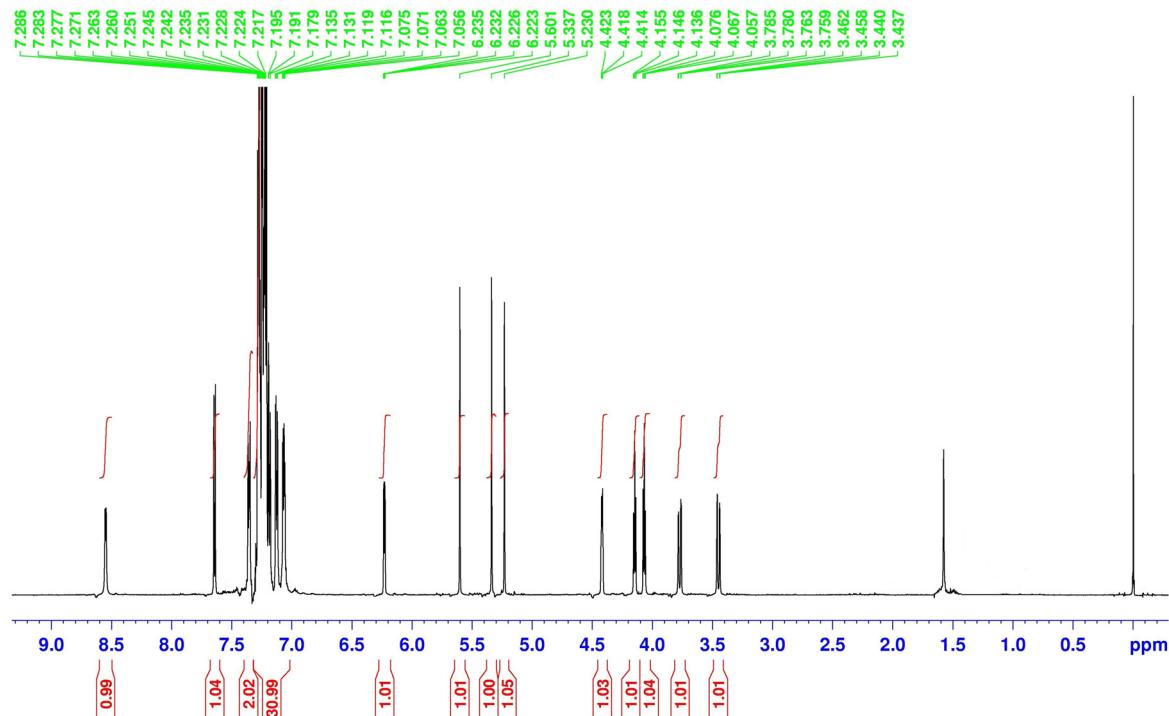
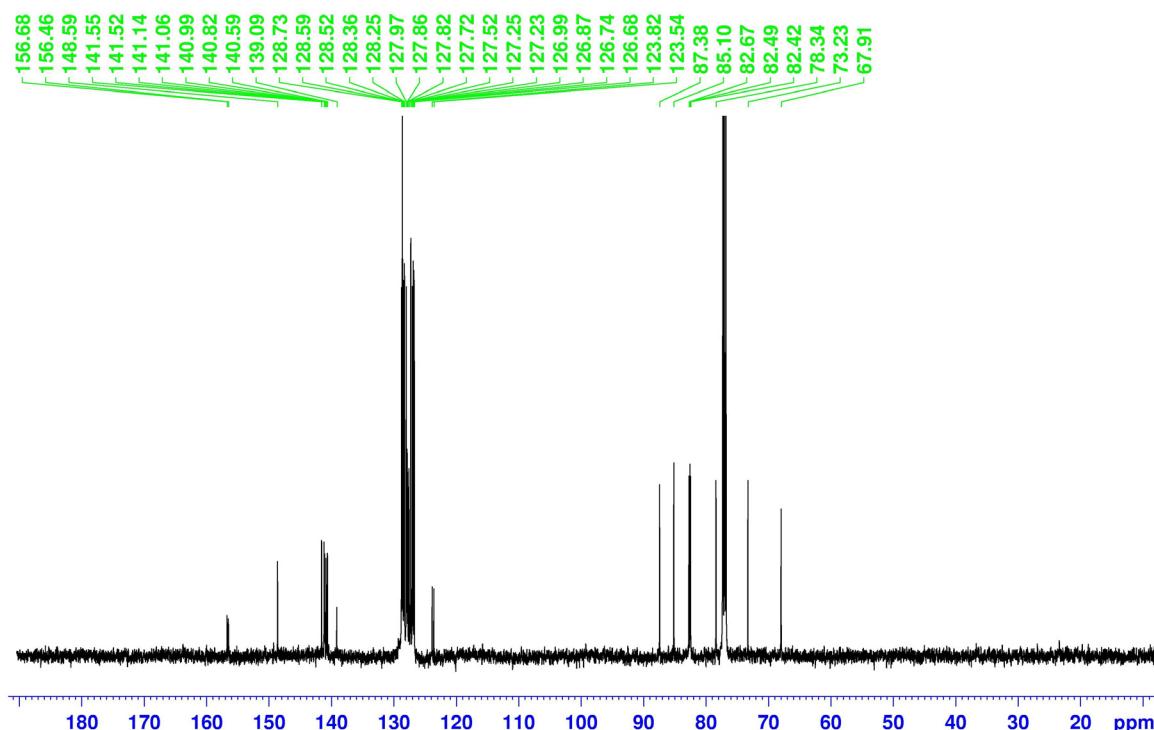
MS-V-88-3 in  $\text{CDCl}_3$   
carbon spectrum

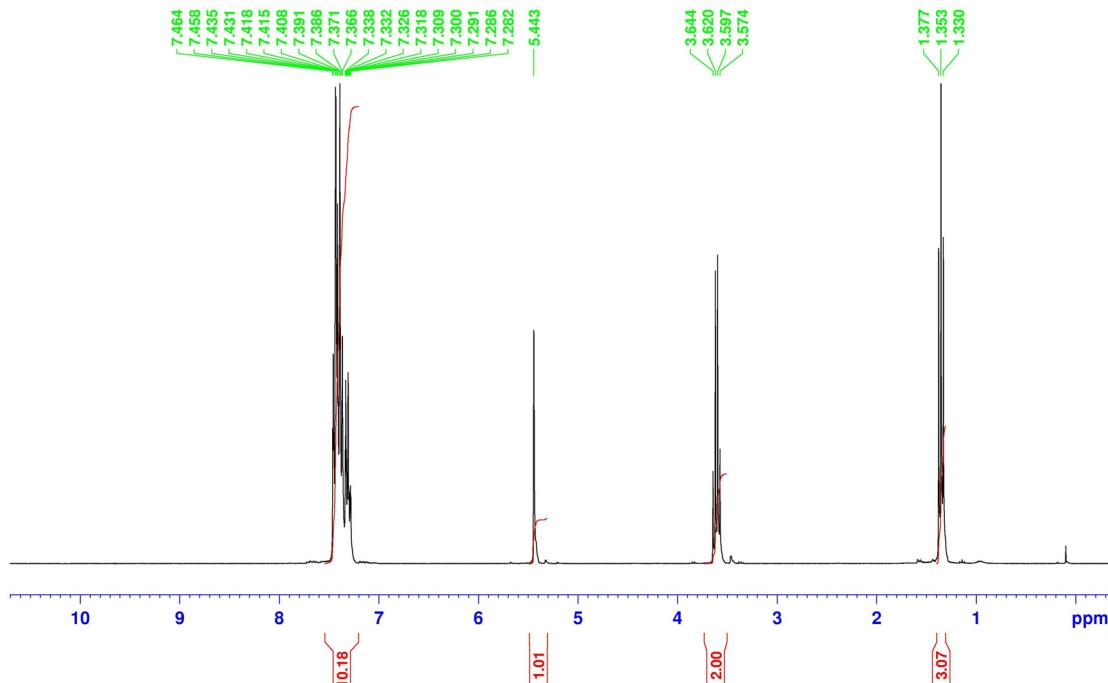
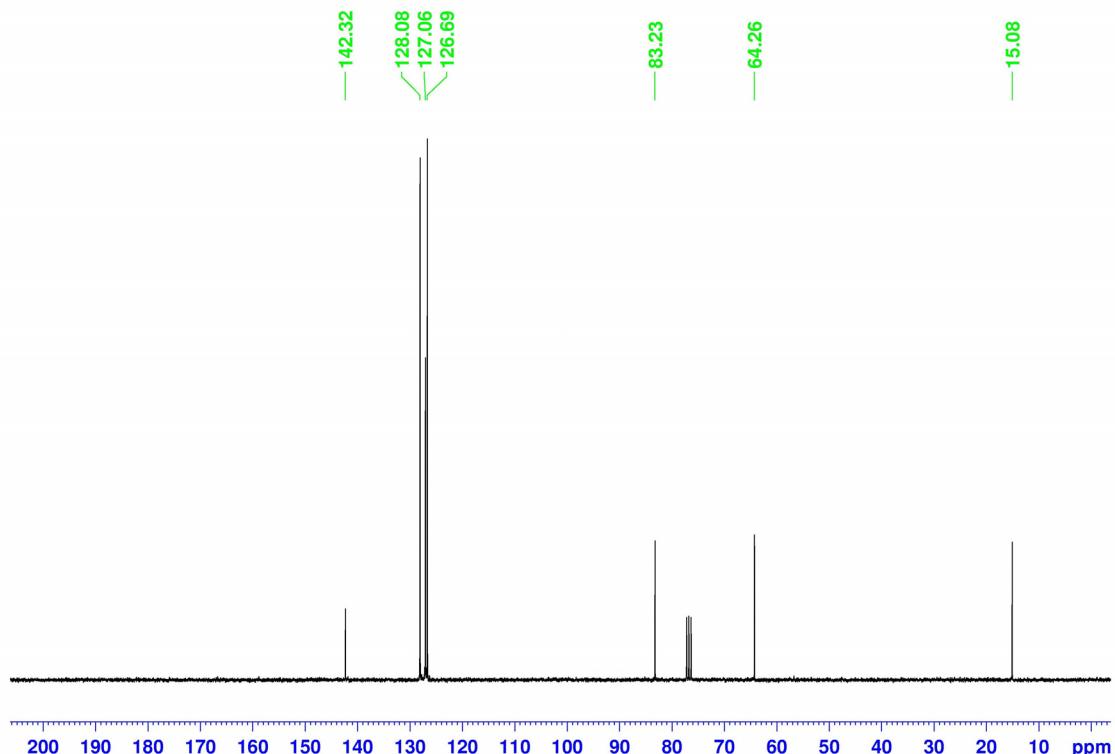


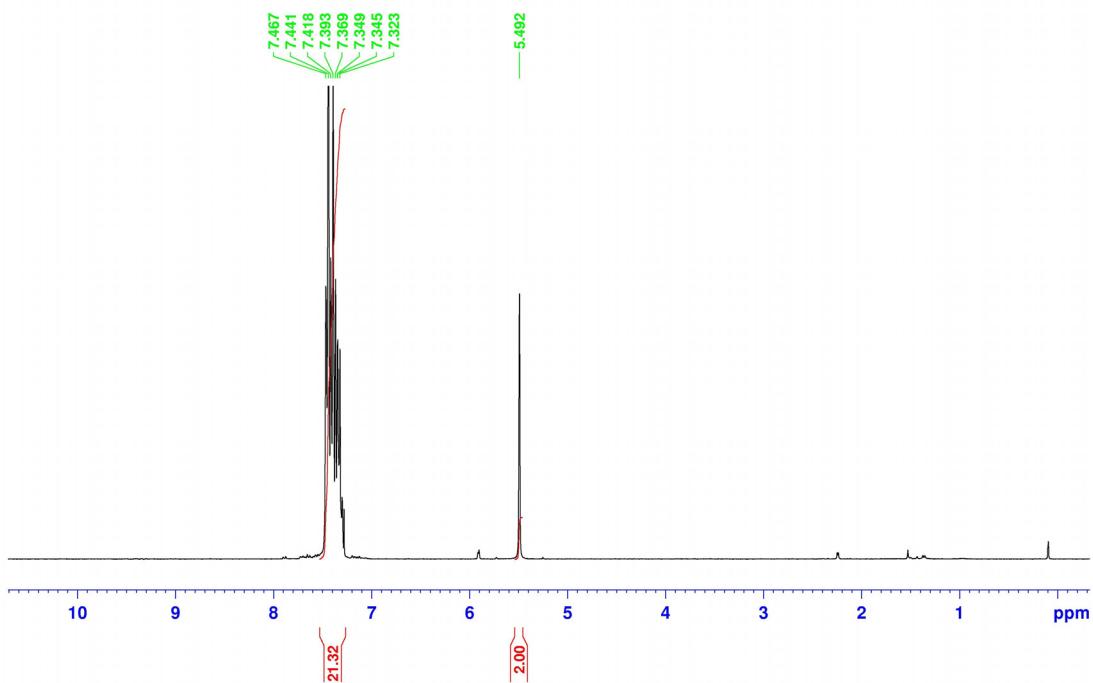
**Figure S10.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of 2',3',5'-tri-*O*-benzhydryl-5-fluorouridine (**9d**).

HRMS (ES+)



<sup>1</sup>H-NMR (600 MHz, CDCl<sub>3</sub>)MS-V-88-1 in CDCl<sub>3</sub>  
proton spectrum<sup>13</sup>C-NMR (150 MHz, CDCl<sub>3</sub>)MS-V-88-1 in CDCl<sub>3</sub>  
carbon spectrum

**Figure S11.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of Ethoxydiphenylmethane (5). $^1\text{H}$ -NMR (300 MHz,  $\text{CDCl}_3$ )MS-VI-05 in  $\text{CDCl}_3$   
28/03/2013 $^{13}\text{C}$ -NMR (75 MHz,  $\text{CDCl}_3$ )MS-VI-05 C13in  $\text{CDCl}_3$   
28/03/2013

**Figure S12.**  $^1\text{H}$  and  $^{13}\text{C}$ -NMR Spectra of Diphenyl methyl ether (**4**). $^1\text{H-NMR}$  (300 MHz,  $\text{CDCl}_3$ )MS-VI-07 in  $\text{CDCl}_3$   
03/04/2013 $^{13}\text{C-NMR}$  (75 MHz,  $\text{CDCl}_3$ )MS-VI-07 C13 in  $\text{CDCl}_3$   
03/04/2013