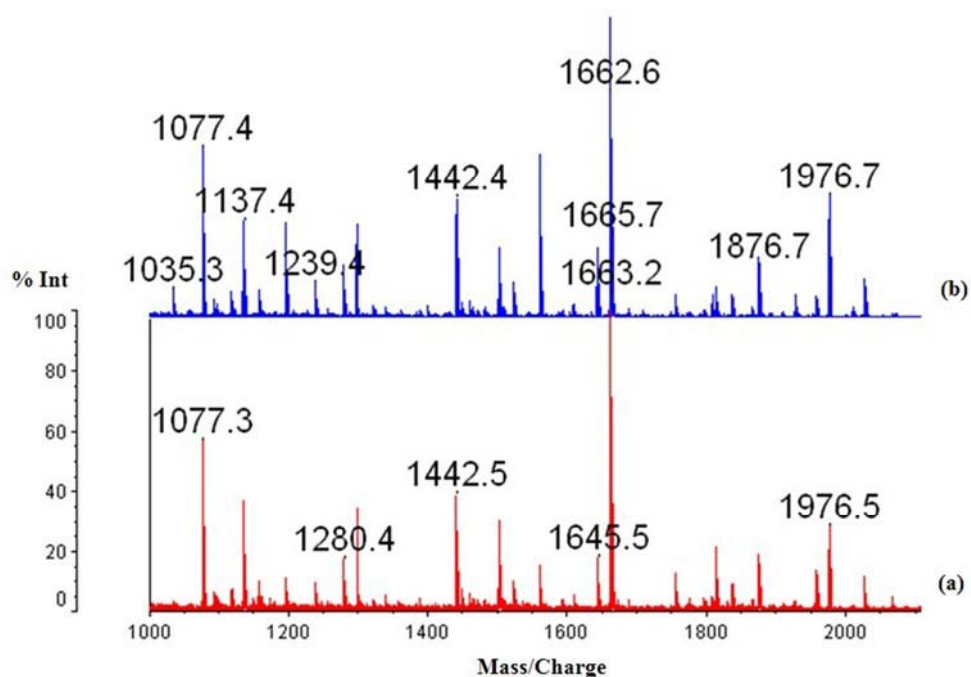


Supplementary Information Available:



Supplemental Figure 1. (a) MALDI-QIT-TOF MS Spectrum of N-linked glycan obtained from the pooled healthy serum specimen (n=20). (b) MALDI-QIT-TOF MS Spectrum of N-linked glycan in commercial standard of Hp β chain.

Supplemental Table 1. *P*-values for glycan peaks in Hp β chain of 4 healthy, 4 HBV, 3 LC and 4 HCC specimens

Peak (M/Z)	1035.3	1077.3	1137.3	1197.4	1239.4
<i>p</i> -value	0.0796404	0.3497231	0.2883895	0.0273287	0.2880741
Peak (M/Z)	1280.4	1442.5	1502.5	1562.5	1663.5
<i>p</i> -value	0.3521296	0.4154995	0.063728	0.2742688	0.4212119
Peak (M/Z)	1809.6	1867.6	1927.6	2028.7	2174.6
<i>p</i> -value	0.0026988	0.0090726	0.0655989	0.2990922	0.135252