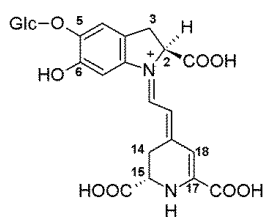
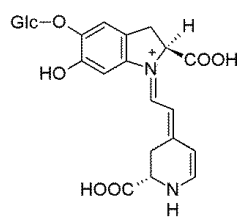


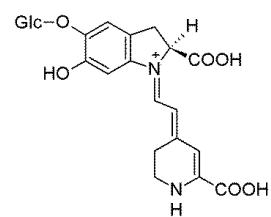
Supplementary Materials



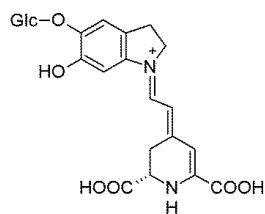
betanin 1; *m/z* 551



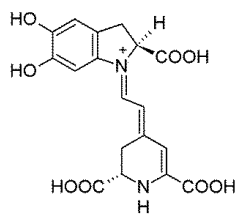
17-decarboxy-betanin 2;
m/z 507



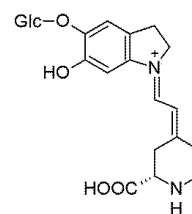
15-decarboxy-betanin 3;
m/z 507



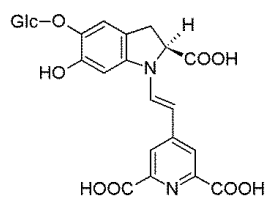
2-decarboxy-betanin 4;
m/z 507



betanidin 5; *m/z* 389



2,17-bidecarboxy-betanin 6;
m/z 463



neobetainin 7; *m/z* 549

Figure 1. Chemical structures of betanin 1, its derivatives (2-4, 6-8) and betanidin 5 present in the BRE extract subjected to studies on chlorination.

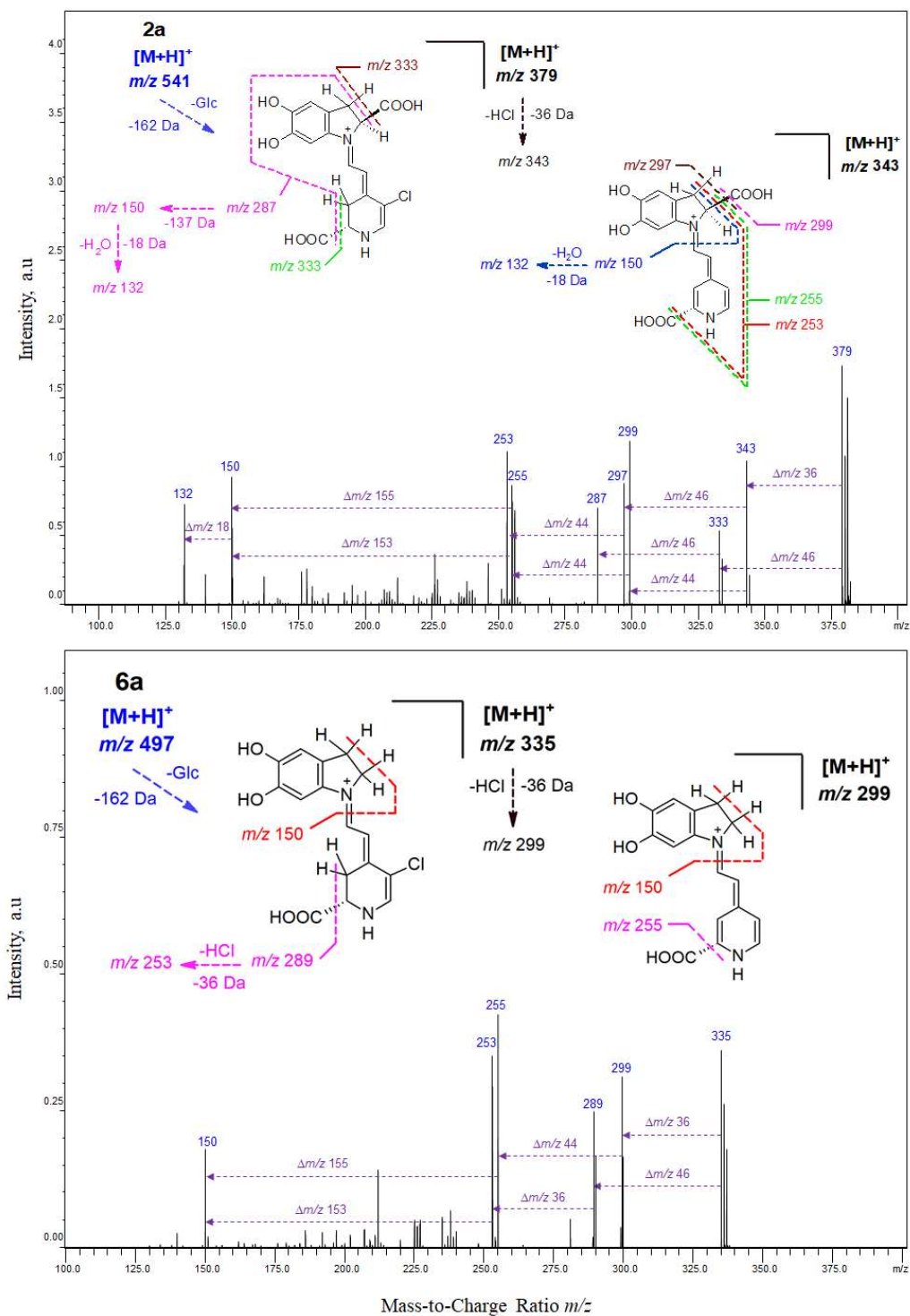


Figure 2. The HRMS fragmentation spectra obtained by IT-TOF for chlorinated decarboxylated derivatives 18-chloro-17-decarboxy-betainin **2a** and 18-chloro-2,17-bidecarboxy-betainin **6a** as well as the fragmentation pathways for their deglycosylated protonated ions.

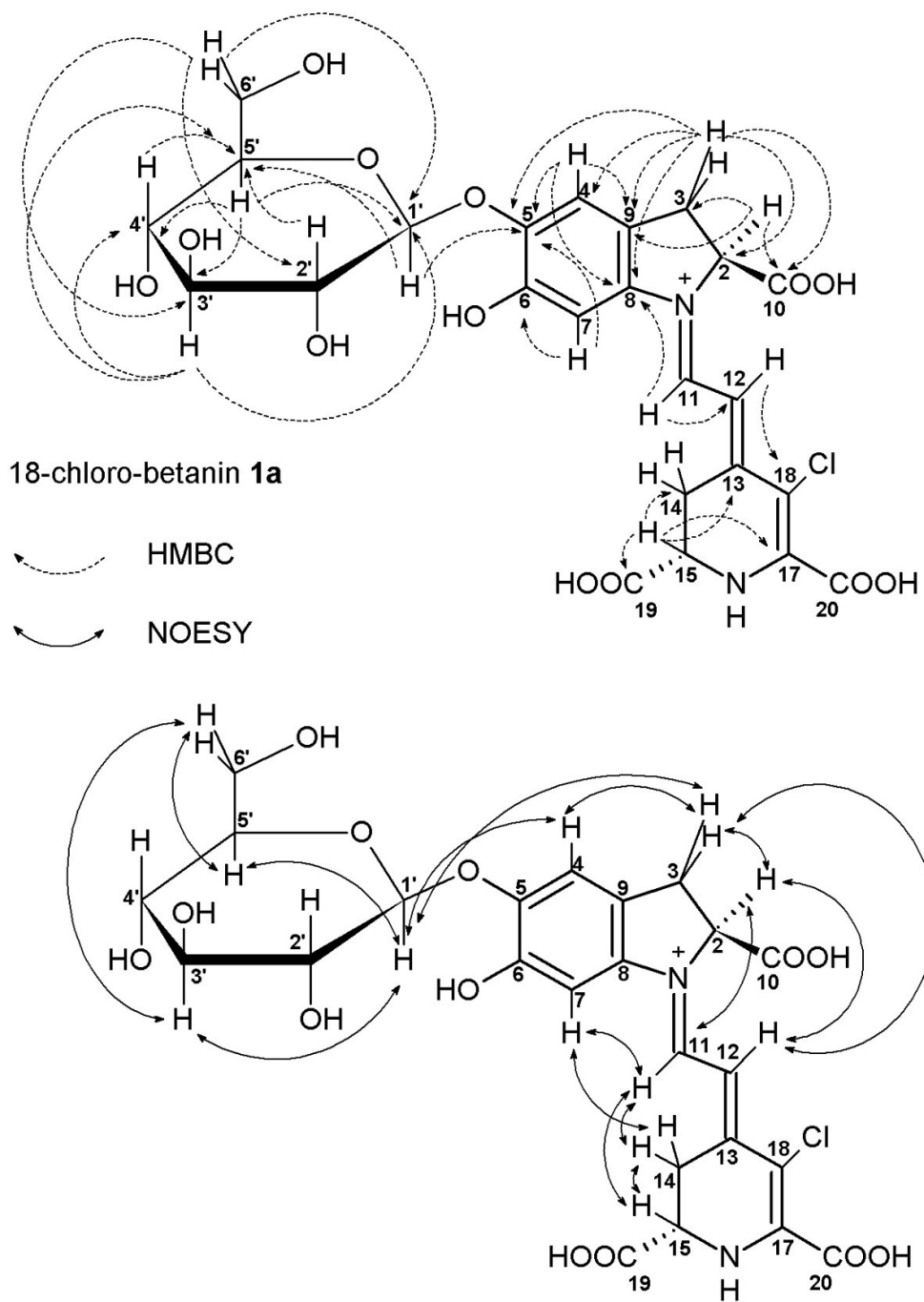


Figure 3. Important HMBC and NOESY NMR correlations in the structurally elucidated 18-chloro-betainin **1a**.