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Applications of C1s XPS NMR analysis methods in a combination with the other techniques of FFT-NMR, 2D NMR, MestReC and Mnova software are listed in Table 3. Similarly, Table 4 lists the utilization of FFT-NMR, 2D NMR, MestReC and Mnova software for a comprehensive characterization and guantification of amine-F compounds in soils. FFT-NMR is a powerful method for the identification and quantification of functional groups or functional groups within molecules. The amine-F compounds include organofunctional amines and functionalized amines [21]. In addition to the high-resolution FFT-NMR and NMR spectra, which can be used for component identification and guantification, COSY and 2D NMR spectra can be used to accurately determine the molecular structures of the amine-F compounds. The 2D NMR spectrum (Fig. 7) and HSQC spectrum (Fig. 9) can determine the chemical structures of the amine-F compounds in soil samples. These methods can also quantitatively measure the distribution of organic amines in the soil samples. Hemicellulose has strong similarities to lignin, and it has been suggested that there are three main C(C,H)bonds in cellulose: one from C1, one from C6, and the other from C4' in the secondary structure of cellulose [31]. The C6 carbon peak of cellulose was masked by the 1H NMR signal from the protons of water [32]. The solvent extraction and the subsequent aqueous extraction and alkaline treatment may remove more than 50% of hemicellulose from soil samples. Therefore, Hemicellulose/cellulose (H/C) and F/O NMR ratios are difficult to obtain for the regular F, O, and C1s spectra (Fig. 8). In contrast, amine-F compounds can be used to detect and quantify hemicellulose by combining FFT-NMR and NMR spectrum analyses. In fact, Hemicellulose/cellulose NMR has been utilized for the rapid detection of xylan-degrading enzymes (Table 1). Similarly, FFT-NMR and/or NMR spectra are suitable for the quantitative detection of amine-F compounds in soil samples.



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