Figure 1. Sampling locations in the textile manufacturing region of Dhaka, Bangladesh. The star symbol indicates the city of Dhaka. Sampling locations are indicated by dots and the following abbreviations: S01: Amin Bazar in Dhaka, S02: Balshi River in Savar Bank Town, S03: Cannel Savar at Denitex textile industry, S04: Demra Site 1, S05: Demra Site 2, S06: Dhanmondi Lake in Dhaka, S07: Gulshan Lake in Dhaka, S08: Gazipur Metropolitan City, S09: Hatirjheel Lake in Dhaka, S10: Turag River Site 1, S11: Turag River Site 2. PEair samples were retrieved from all sites except S03; PEwater samples were retrieved from S02, S06, S08, S09; water grabs were collected from S02, S03, S06, S07, S07, S08, S09, S10, S11.
Figure 2. Neutral PFAS concentration in outdoor air and water of Dhaka, Bangladesh. Figure 2a shows concentrations in air; Figure 2b shows concentrations in water. S01: Amin Bazar in Dhaka, S02: Balshi River in Savar Bank Town, S03: Cannel Savar at Denitex textile industry, S04: Demra Site 1, S05: Demra Site 2, S06: Dhanmondi Lake in Dhaka, S07: Gulshan Lake in Dhaka, S08: Gazipur Metropolitan City, S09: Hattrjheel Lake in Dhaka, S10: Turag River Site 1, S11: Turag River Site 2. Compounds stand as follows: 6:2 Fluorotelomer alcohol; 8:2 Fluorotelomer alcohol; 10:2 Fluorotelomer alcohol; 8:2 Fluorotelomer acrylate.
Figure 3. Relative concentrations for 16 PFAS compounds divided into 6 sub-groups based on their chemistry. Perfluoro alkyl acids are split into C6 or smaller for both Sulfonates and Carboxylates, as well as >C6 chain lengths. Three common fluorotelomer sulfonates (4:2, 6:2, and 8:2), and sulfonamide precursors (FBSA, FHxSA) are also grouped accordingly. S02: Balshi River in Savar Bank Town, S03: Cannel Savar at Denitex textile industry, S06: Dhanmondi Lake in Dhaka, S07: Gulshan Lake in Dhaka, S08: Gazipur Metropolitan City, S09: Hatirjheel Lake in Dhaka, S10: Turag River Site 1, S11: Turag River Site 2. Compounds stand as follows: 4-8:2 Fluorotelomer Sulfonate; C4-C6 Perfluoro Sulfonic Acid; C7-C8 Perfluoro Sulfonic Acid; C4-C6 Perfluoro Carboxylic Acid; C7-C11 Perfluoro Carboxylic Acid; Sulfonamides.