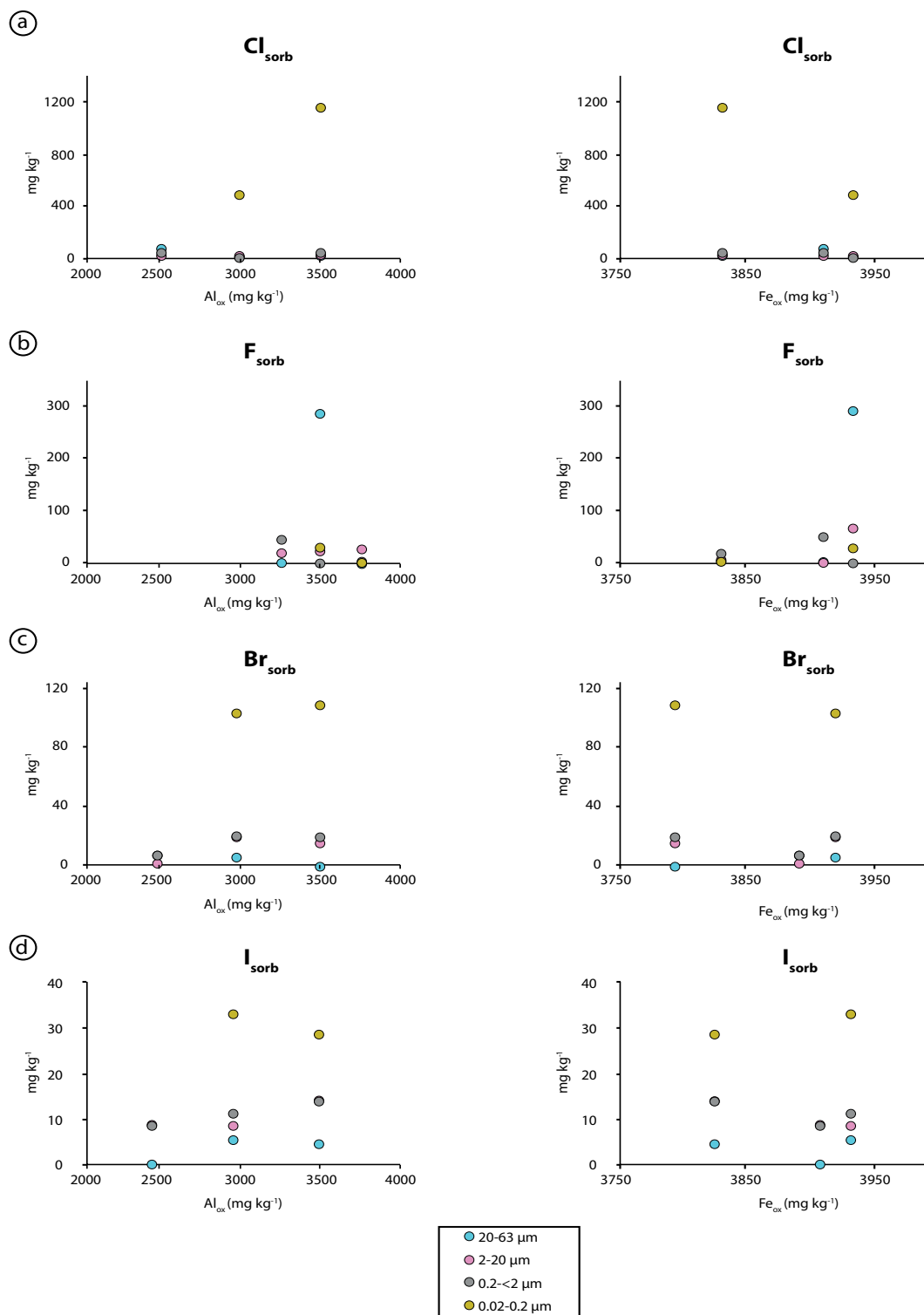


**FIGURE OM1.** (a and b) Dissolved inorganic F and Cl concentrations in the supernatant phosphate solution in each soil size fraction and each soil horizon after the desorption treatment of the soil samples in mg L<sup>-1</sup>. Residual solution of all soil size fractions of each soil horizon were analyzed by ion chromatography.



**FIGURE OM2.** (a-d) Adsorbed halogen concentrations of all soil size fractions vs. Al<sub>ox</sub>, Fe<sub>ox</sub> (poorly crystalline Al and Fe oxides), and vs. Al<sub>d</sub> and Fe<sub>d</sub> (sum of poorly crystalline and crystalline Al and Fe oxides).