Spectral Breast CT: Effect of adaptive filtration on CT numbers, CT noise, and CNR

Figure 1. Spectral breast CT system (left) and water phantom with 14 cm diameter (right) including 3 iodine (2.5mg/cc) and 3 adipose contrast elements, located at 1cm, 3.5cm and 6cm from phantom center.

Figure 2. First row: CT images acquired without (left) and with (middle) adaptive filter, and with adaptive filter and scaled exposure (right), and corresponding profiles in second row. Third row: CNR of Iodine (left) and adipose (middle) are shown against distance from center. CT# of water (right) are also shown.