

SCENARIO View Detailed Specification (Internal Use Only)

(5) MTF (Abdomen Standard evaluation mode) 21.4mGy(CTDIvol)

11.5lp/cm (0%MTF) (Reference Value)

7.7lp/cm (2%MTF)

6.2lp/cm (10%MTF)

3.5lp/cm (50%MTF)

[Measurement condition]

10mm (10mm×1i), 0.5s/rot, 120kV, 400mA, Large focus, F32, FOV50mm

Standard Bow-tie, Normal Scan

HHBU QA Phantom Spatial Resolution Section

Body exam condition

(6) MTF (Z-axis direction)

9.0lp/cm±0.9lp/cm (10%MTF)

4.5lp/cm±0.5lp/cm (50%MTF)

[Measurement condition]

120kV, 275mA, 1s, 40mm beam width, 400mA, Pitch 0.578, FOV240, F13, Small focus, Volume scan, 0.625mm thickness, Standard Bow-tie

Micro disc phantom (MHT type) *using reconstruction FOV.

(7) Low Contrast resolution

0.625%mm (2.5mm@0.25%) 109.5mGy(CTDIvol)

[Measurement condition]

10mm (10mm×1i), 2s/rot, 120kV, 265mA, Large focus, F11, FOV160mm

HHBU Performance Phantom Low-contrast Section

Head exam condition

4mm@0.3% 19.6mGy(CTDIvol) (Head exam condition)

5mm@0.3% 14.9mGy(CTDIvol) (Body exam condition)

[Measurement condition]

10mm(10mmx2i), 120kV, 1.0s/rot, 0.625mmx32,

Standard Bow-tie, Normal Scan, Standard Bow-tie, F32, FOV160mm

Catphan Phantom

(8) Noise

8.69HU@18.7mGy(CTDIvol)

[Measurement condition]

10mm (10mm×2i), 0.5s/rot, 120kV, 400mA, Large focus, F32, FOV350mm

Standard Bow-tie, Normal Scan,

305mm water phantom

Body exam condition

2.02HU@53.4mGy(CTDIvol)