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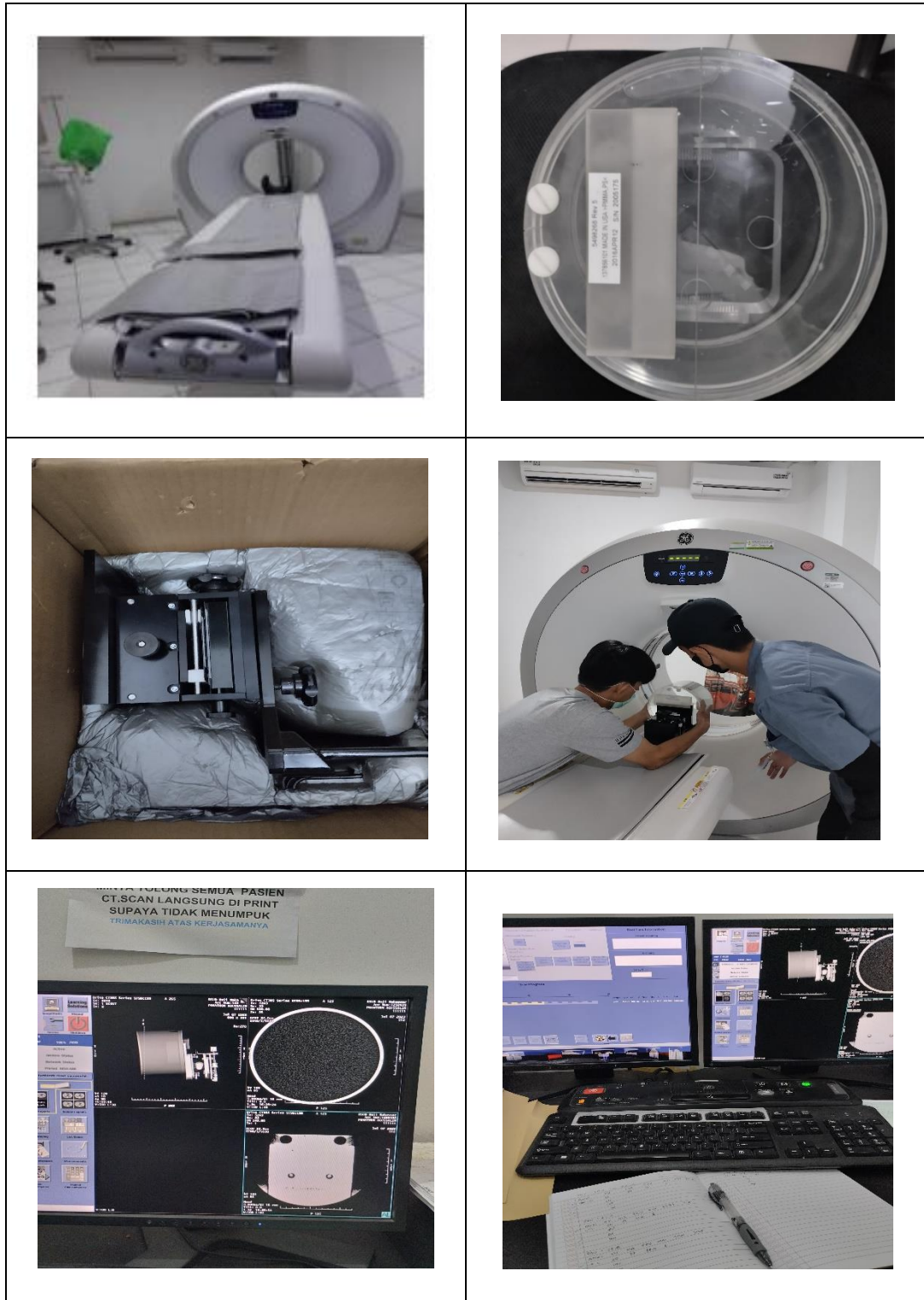
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LAMPIRAN

Lampiran 1. Proses Pengambilan Data



Lampiran 2. Proses Pengolahan Data



Lampiran 3. Analisis Data

$$SNR = \frac{(Mean ROI_1) - (Mean ROI_2)}{\sqrt{\frac{(SD ROI_1)^2 + (SD ROI_2)^2}{2}}} \quad (1)$$

$$CNR = \frac{Mean ROI_1 - Mean ROI_2}{SD ROI_2} \quad (2)$$

Dimana :

ROI₁ : ROI obyek

ROI₂ : ROI *background*

- a. Perhitungan nilai SNR dan CNR mode *Helical* tegangan 140 kV, FOV 25 cm

$$SNR = \frac{(Mean ROI_1) - (Mean ROI_2)}{\sqrt{\frac{(SD ROI_1)^2 + (SD ROI_2)^2}{2}}}$$

$$SNR = \frac{(131,50) - (32,60)}{\sqrt{\frac{(3,98)^2 + (5,28)^2}{2}}}$$

$$SNR = \frac{98,90}{\sqrt{\frac{(15,8404) + (27,8784)}{2}}}$$

$$SNR = \frac{98,90}{\sqrt{\frac{(43,7188)}{2}}}$$

$$SNR = \frac{98,90}{\sqrt{21,8594}}$$

$$SNR = \frac{98,90}{4,67540373}$$

$$SNR = 21,1550802$$

$$CNR = \frac{Mean ROI_1 - Mean ROI_2}{SD ROI_2}$$

$$CNR = \frac{(131,50) - (32,60)}{5,28}$$

$$CNR = \frac{98,90}{5,28}$$

$$CNR = \frac{98,90}{5,28}$$

$$CNR = 18,7310606$$

b. Perhitungan nilai SNR dan CNR mode *Axial* tegangan 140 kV, FOV 25 cm

$$SNR = \frac{(Mean ROI_1) - (Mean ROI_2)}{\sqrt{\frac{(SD ROI_1)^2 + (SD ROI_2)^2}{2}}}$$

$$SNR = \frac{(132,68) - (1,65)}{\sqrt{\frac{(8,48)^2 + (6,22)^2}{2}}}$$

$$SNR = \frac{131,03}{\sqrt{\frac{(71,9104) + (38,6884)}{2}}}$$

$$SNR = \frac{131,03}{\sqrt{\frac{(71,9104) + (38,6884)}{2}}}$$

$$SNR = \frac{131,03}{\sqrt{\frac{(110,5988)}{2}}}$$

$$SNR = \frac{131,03}{\sqrt{55,2994}}$$

$$SNR = \frac{131,03}{7,43635663}$$

$$SNR = 17,6201878$$

$$CNR = \frac{Mean ROI_1 - Mean ROI_2}{SD ROI_2}$$

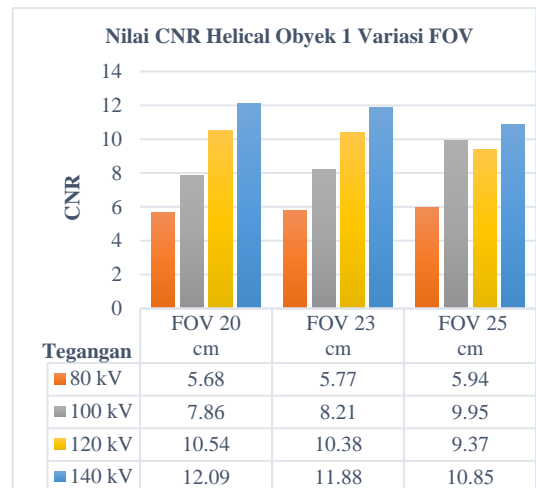
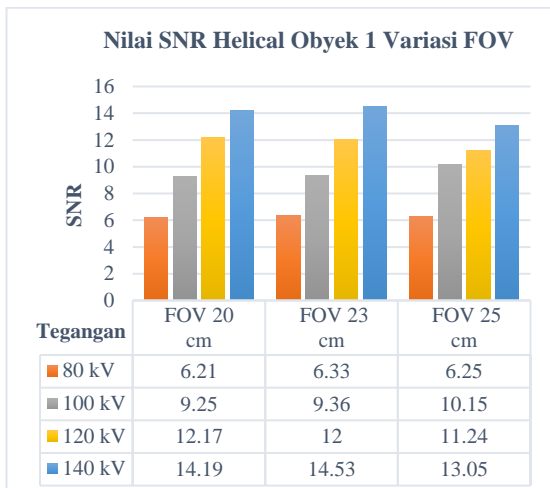
$$CNR = \frac{(132,68) - (1,65)}{6,22}$$

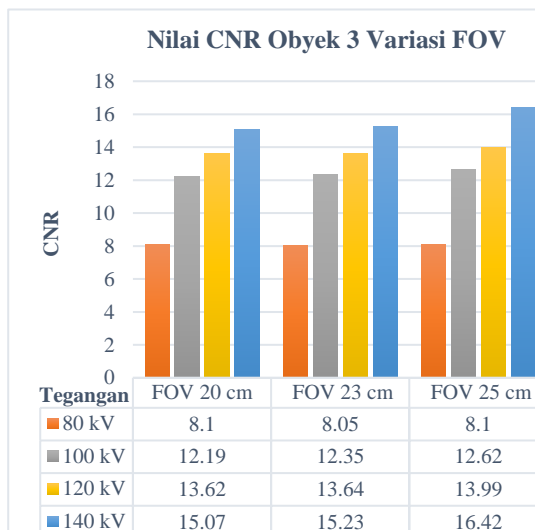
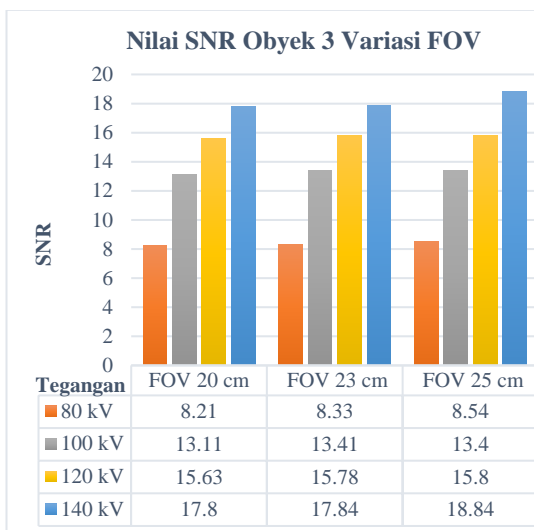
$$CNR = \frac{131,03}{6,22}$$

$$CNR = 21,0659164$$

Lampiran 4. Grafik variasi nilai FOV untuk perubahan tegangan tabung terhadap nilai SNR dan CNR pada obyek I dan III dengan mode *helical* dan *axial*

a. *Helical*





b. Axial

