

## 5. RF EXPOSURE EVALUATION

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### Applicable Standard

According to KDB447498 D01 General RF Exposure Guidance v06: 4.3. General SAR test exclusion guidance

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

- 1) For *test separation distances*  $> 50$  mm and  $< 200$  mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by  $[1 + \log(100/f_{\text{(MHz)}})]$
- 2) For *test separation distances*  $\leq 50$  mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by  $\frac{1}{2}$
- 3) SAR measurement procedures are not established below 100 MHz

### Measurement Result:

For NFC, the power of EUT: E Field@3m is 67.52dBuV/m = -27.68 dBm(0.002mW)

Note:  $E[\text{dB}\mu\text{V/m}] = \text{EIRP}[\text{dBm}] + 95.2$  for  $d = 3$  m.

SAR test exclusion threshold for NFC(13.56MHz) separation distance  $< 50\text{mm}$

$$= [474 * (1 + \log(100/f_{\text{(MHz)}}))] / 2$$

$$= 443\text{mW}$$

$$> 0.002\text{mW}$$

**Result: Compliant.**