

## 5. RF EXPOSURE EVALUATION

### 5.1 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  $[1 + \log(100/f_{MHz})]$
- 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

### 5.2 Measurement Result

For NFC, the power of EUT: E Field@3m is 53.02dB<sub>u</sub>V/m = -42.18 dBm(0.00006mW)  
Note: E[dB<sub>u</sub>V/m] = EIRP[dBm] + 95.2 for d = 3 m.

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

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

$$= 443 \text{mW}$$

$$> 0.00006 \text{mW}$$

**Result: Compliant.**