

Prüfbericht - Nr.:
Test Report No.:

14037237 001

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Appendix 6

RF Exposure Information

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Antenna Type: Permanent external antenna
Antenna Gain: 0 dBi
Nominal rated field strength: 66.8dB μ V/m at 3m
Maximum allowed field strength of production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 69.8dB μ V/m at 3m in frequency 27.145MHz, thus

$$\text{EIRP} = [(\text{FS} \cdot \text{D})^2 \cdot 1000 / 30] = 0.00286\text{mW}$$

$$\begin{aligned} \text{Conducted power} &= \text{Radiated Power (EIRP)} - \text{Antenna Gain} \\ &= 0.00286\text{mW}. \end{aligned}$$

The SAR Exclusion Threshold Level for 27.145MHz when the minimum test separation distance is < 50mm:

$$\begin{aligned} &= [474 \cdot (1 + \log_{10}(f(\text{MHz})))]/2 \\ &= 371.2\text{mW} \end{aligned}$$

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.