

RF Exposure Report

1. RF Exposure Evaluation of EUT

1.1. Exposure conditions for standalone operations

Antenna Gain: -7.12 dBi

Max. transmitting Frequency: 917.5 MHz

Min. test separation distance: 5

Max. Power with tune up tolerance: 2 dB = 1.58 mW (Typical Power = Max 2 dB)

KDB 447498 D01 clause 4.3.1

Step 1) SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1g SAR and } \leq 7.5 \text{ for 10g extremity SAR}$

Type of Modulation	Frequency [MHz]	Output Power [dBm]	Target Power [dBm]	Allowed Tolerance [dB]	Max tune Up power [dBm]	Max tune Up Power [mW]	Separation Distance [mm]	RF exposure	Limit
DTS	917.5	17.64	17	± 2	19	79.4	50	1.52	3

$$= [(79.4 \text{ mW} / 50 \text{ mm})] \times [\sqrt{0.9175 \text{ GHz}}] = 1.52$$

➔ SAR evaluation for general population exposure conditions by measurement or numerical simulation is not required.