

5.8 RF exposure consideration for SAR test exclusion

According to KDB 447498 D01 General RF Exposure Guidance v05r02 chapter 4.3.1 the 1-g SAR number is calculated for a distance of 1 mm using the following formula.

$$\left(\frac{\text{max. } P_{\text{channel}} \text{ (mW)}}{\text{Distance (mm)}} \right) * \sqrt{f \text{ (GHz)}} \leq 3$$

Where:

Max. Pchannel = EIRP (mW)

Distance = 5 mm

f (GHz) = Channel frequency (MHz) divided by thousand

5.8.1 Test result

Standard 802.15.1

Channel frequency (MHz)	EIRP (dBm)	EIRP (mW)	1-g SAR (1)	Limit 1-g SAR (1)
2402	-8.3	0.15	0.23	3.0
2426	-7.3	0.19	0.29	3.0
2480	-9.3	0.12	0.19	3.0

The limits for SAR test exclusion threshold are given in KDB 447498 D01 General RF Exposure Guidance Appendix A.

The requirements are **FULFILLED**.

Remarks: N/A