

# RF Exposure Report

## 1. RF Exposure Evaluation of EUT

### 1.1. Exposure conditions for standalone operations

Antenna Gain: 1.86 dBi

Max. transmitting Frequency: 2402 MHz (Lowest channel)

Min. test separation distance: 0

Max. Power with tune up tolerance: 2 dBm = -9 mW (Typical Power = Max 2 dBm)

#### KDB 447498 D01 clause 4.3.1

#### Step 1) SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances $\leq 5$ mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ] · [  $\sqrt{f(\text{GHz})}$  ]  $\leq 3.0$  for 1g SAR and  $\leq 7.5$  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
Beacon	2 402	-13.48	-11	$\pm 2$	-9	0.13	5	2.19	3
	2 426	-12.93	-11	$\pm 2$	-9	0.13	5	2.21	3
	2 480	-11.62	-11	$\pm 2$	-9	0.13	5	2.23	3

$$= [ ( 0.13 \text{ mW} / 5 \text{ mm} ) ] \times [ \sqrt{2.480\text{GHz}} ] = 2.23$$

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