

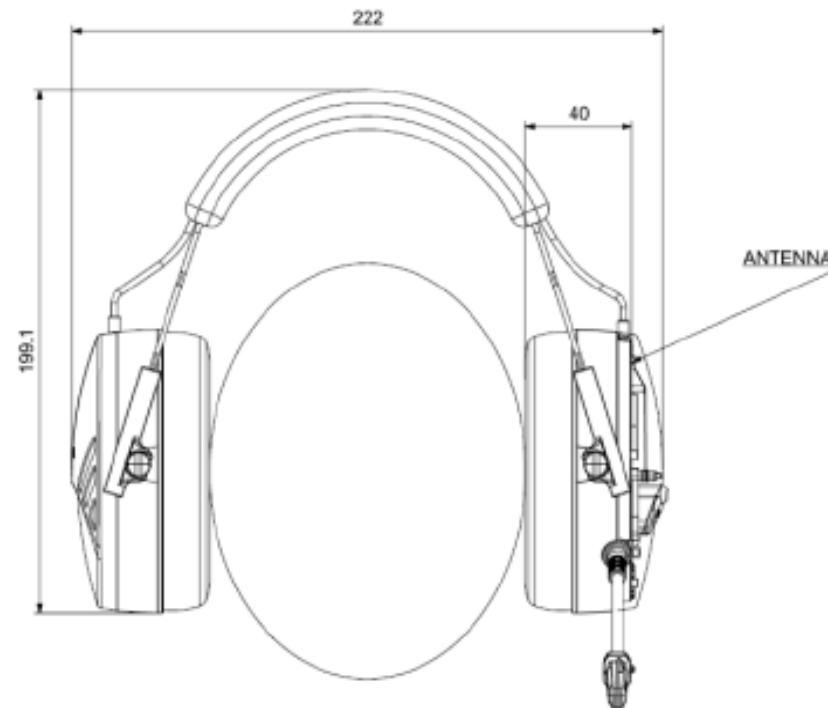
## Standalone SAR test exclusion considerations(Antenna separation distance)

Exact antenna dimensions and separation distances are shown in the User manual.

### Caution

The distance between the antenna of the device and the head surface is at least 40mm and use 40mm or more.

La distance entre l'antenne de l'appareil et la surface de la tête est d'au moins 40mm et d'utiliser 40mm ou plus..



<Figure 1>

## Standalone SAR test exclusion considerations(Bluetooth)

March 19, 2018

- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 40 mm
- Max. Antenna Gain = 0.48 dBi
- Max. power with turn-up tolerance = **16.00** dBm = **39.9** mW ( Typical Power = Max. 16.00 dBm )

Note. The minimum separation distance between antenna and user is 40mm.

Please refer to the operation descriptoin for Max.tune-up power.

### KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

[ ( max. power of channel, including tune-up tolerance, mW ) / ( min. test separation distance, mm ) ] · [ √f(GHz) ] ≤ 3.0 for 1g SAR and ≤ 7.5 for 10g extremity SAR  
= [ ( **39.9mW / 40mm** ) ] X [ √**2.48GHz** ] = **1.57**

Note. The calculation result was rounded to one decimal place for comparison.

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

## Standalone SAR test exclusion considerations (BLE)

March 19, 2018

- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = 2480 MHz
- Min. test separation distance = 40 mm
- Max. Antenna Gain = 0.48 dBi
- Max. power with turn-up tolerance = 6.50 dBm = 4.5 mW ( Typical Power = Max. 6.50 dBm )

Note. The minimum separation distance between antenna and user is 40mm.

Please refer to the operation descriptoin for Max.tune-up power.

### KDB 447498 D01 clasue 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separationn distances ≤ 50 mm

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

$$= [ ( 4.5\text{mW} / 40\text{mm} ) ] \times [ \sqrt{2.48\text{GHz}} ] = 0.2$$

Note. The calculation result was rounded to one decimal place for comparison.

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