



## Standalone SAR test exclusion considerations

July 7, 2020

- Device category =  Portable device  Mobile device
- Transmitting mode =  Single Transmitting  Simultaneous Transmitting
- Max. transmitting frequency = 919 MHz
- Min. test separation distance = 0 mm
- Max. Antenna Gain = -9 dBi
- Max. power with turn-up tolerance = 15.50 dBm = 35.5 mW ( Typical Power = Max. 15.50 dBm )

Note. The max power includes a correction factor of  $10\log(0.4)$  to cover an operational duty factor of 40% as the device will transmit a maximum of 3 transmit packets of 223ms each followed by 1000ms in receive only mode

### KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation distances $\leq 50$ mm

$[ ( \text{max. power of channel, including tune-up tolerance, mW} ) / ( \text{min. test separation distance, mm} ) ] \cdot [ \sqrt{f(\text{GHz})} ] \leq 3.0$  for 1g SAR and  $\leq 7.5$  for 10g extremity SAR  
 $= [ ( 35.5\text{mW} / 5\text{mm} ) ] \times [ \sqrt{0.919\text{GHz}} ] = 6.8$

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.***