

## Standalone SAR test exclusion considerations

July 20, 2017

- Device category = 🗵 Portable device 🗆 Mobile device			
- Transmitting mode = ☑ Single Transmitting		Transmitting	☐ Simultaneous Transmitting
- Max. transmitting frequency = <b>2441</b> MHz		<b>2441</b> MHz	
- Min. test separation distance = 46 mm		<b>46</b> mm	
- Max. Antenna Gain = 1.7 dBi			
- Measured Max. Peak power = 16.01 dBm = 40.0 mW			
Note.	Bluetooth		

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 ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR = [ ( 40mW / 46mm ) ] X [  $\sqrt{2.441GHz}$  ] = 1.4

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.



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- Device category = ✓ Portable device
                                        ☐ Mobile device
- Transmitting mode =

☑ Single Transmitting
                                                    ☐ Simultaneous Transmitting
- Max. transmitting frequency =
                                  2440
                                           MHz
- Min. test separation distance =
                                           mm
- Max. Antenna Gain =
                            1.7
                                  dBi
- Measured Max. Peak power =
                                       3.94
                                              dBm =
                                                               mW
Note. Bluetooth LE
```

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 ) ]  $\cdot$  [  $\sqrt{f(GHz)}$  ]  $\leq$  3.0 for 1g SAR and  $\leq$  7.5 for 10g extremity SAR = [ ( 2.5mW / 46mm ) ] X [  $\sqrt{2.44GHz}$  ] = 0.1

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.