FCC ID: S7A-SP22

Standalone SAR test exclusion considerations(Bluetooth)

May 25, 2018

```
- Device category = Portable device Mobile device
                         Single Transmitting
- Transmitting mode =
                                                      Simultaneous Transmitting
- Max. transmitting frequency =
- Min. test separation distance =
                                     30
                                          mm
- Max. Antenna Gain =
                           0.56
                                  dBi
- Max. power with turn-up tolerance = 12.50 dBm =
                                                       17.8 mW ( Typical Power =
                                                                                            Max. 12.50 dBm )
Note. The minimum separation distance between antenna and user is 35.5mm. But we applied a closer distance to calculate the worst results.
        Please refer to the "Attestation letter" in the FCC filing.
       For Max.tune-up power, please refer to the operation description in the FCC original filing.
```

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 = [(17.8mW / 30mm)] X [$\sqrt{2.48GHz}$] = 0.93

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.

FCC ID: S7A-SP22

Standalone SAR test exclusion considerations(BLE)

May 25, 2018

```
- Device category = Portable device Mobile device
                         Single Transmitting
- Transmitting mode =
                                                      Simultaneous Transmitting
- Max. transmitting frequency =
- Min. test separation distance =
                                     30
                                          mm
- Max. Antenna Gain =
                           0.56
                                  dBi
- Max. power with turn-up tolerance =
                                                              mW ( Typical Power =
                                       6.00 dBm =
                                                                                             Max. 6.00 dBm )
Note. The minimum separation distance between antenna and user is 35.5mm. But we applied a closer distance to calculate the worst results.
        Please refer to the "Attestation letter" in the FCC filing.
       For Max.tune-up power, please refer to the operation description in the FCC original filing.
```

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 = [(4mW / 30mm)] X [$\sqrt{2.48GHz}$] = 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.