

## Standalone SAR test exclusion considerations

Date: **March 21, 2018**

| RF feature | Mode | Max. Transmitting Frequency(MHz) | Test separation distance (mm) <sup>Note1</sup> | Max. power with tune-up tolerance (dBm) <sup>Note2</sup> | ANT Gain (dBi) | Max. power with tune-up tolerance (mW) | Power thresholds | SAR test exclusion thresholds |
|------------|------|----------------------------------|------------------------------------------------|----------------------------------------------------------|----------------|----------------------------------------|------------------|-------------------------------|
| BT         | BDR  | 2441.00                          | 30.0                                           | 17.00                                                    | 0.52           | 50.1187                                | 2.61             | 3.00                          |
| BT         | EDR  | 2480.00                          | 30.0                                           | 6.50                                                     | 0.52           | 4.4668                                 | 0.23             | 3.00                          |
| BT         | LE   | 2480.00                          | 30.0                                           | 1.00                                                     | 0.52           | 1.2589                                 | 0.07             | 3.00                          |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |
|            |      |                                  |                                                |                                                          |                |                                        |                  |                               |

Note1. The minimum separation distance between antenna and user is 30mm.

Exact antenna dimensions and separation distances are shown in the "Attestation letter" in the FCC filing.

Note2. For Max.tune-up power, please refer to the operation description in the original filing.

### KDB 447498 D01 clause 4.3.1 Step 1) SAR test exclusion thresholds for 100MHz to 6GHz at test separation 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

#### Sample Calculation

$$= [ ( 50.1187\text{mW} / 30\text{mm} ) ] \times [ \sqrt{2.441\text{GHz}} ] = 2.61$$

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

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