## SAR Exclusion Analysis

Per FCC KDB 447498 D01v06, the SAR exclusion threshold for distances<50mm is defined by the following equation:

$$\frac{Max\ Power\ of\ Channel(mW)}{Test\ Separation\ Distance(mm)} \times \sqrt{Frequency(GHz)} \leq 3.0, \text{ for head and boy SAR;}$$

$$\frac{Max\ Power\ of\ Channel(mW)}{Test\ Separation\ Distance(mm)} \times \sqrt{Frequency(GHz)} \leq 7.5, \text{ for Extremity SAR.}$$

For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm) * (f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance – 50 mm)*10]} mW, for > 1500 MHz and ≤ 6 GHz

| Antenna Distance to Phantom/User (mm) | | | | | |
|---|---|---|---|---|---|
| Front | Back | Left | Right | Top | Bottom |
| N/A | 10 | 160 | 23 | 5 | 135 |

Note:

1. Antenna to user distance = Antenna to out-surface of EUT distance + Out-surface of EUT to user distance

2. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

■ Required test configuration

| Rugged Tablet | | | | | | |
|---|---|---|---|---|---|---|
| Band | Front | Back | Left | Right | Top | Bottom |
| DTS | N/A | Yes | No | Yes [*1] | Yes | No |
| Bluetooth[*2] | N/A | No | No | No | No | No |

Note:

" [*1] ", marked configuration SAR test is required, which is to get more conservative SAR values.

" [*2] ", BT : (6dBm/5mm)* √2480MHz = 1.25 ,So. The Bluetooth exclusion analysis ≦ 3 , So SAR evaluation is not required.