

# FCC ID : 2AB4K3631201

## Test Standards and Limits

1. According to KDB 447498 D01 v06, Section 4.3.1

#### 2. FCC Radiofrequency radiation exposure limits:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤50 mm are determined by:

[(max power of channel)/(min test separation distance)]\*[ $\sqrt{f}(GHz)$ ]  $\leq$  3.0 for 1-g SAR and  $\leq$  7.5 for 10-g extremity SAR, where

• f(GHz) is the RF channel transmit frequency in GHz

• Power and distance are rounded to the nearest mW and mm

• The result is rounded to one decimal place for comparison

• 3.0 and 7.5 are referred to as the numeric thresholds

The test exclusions are applicable only when the minimum test separation distance is  $\leq$  50 mm, and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm according to 4.1 f) is applied to determine SAR test exclusion.

For 2.4G band device, the limit of worse case is  $P_{max}\leq 3.0^*D_{min}$ / f =3.0\*5/ 2.480 =9.525mW

## Measurement and Calculation

#### 1. Maximum transmit power

Antenna Gain: -2.34 dBi

Test Mode	Antenna	Frequency[MHz]	Conducted Peak Powert[dBm]
DH5	Ant1	2402	-2.61
		2441	-4.26
		2480	-5.08
2DH5	Ant1	2402	-2.56
		2441	-4.1
		2480	-4.96
3DH5	Ant1	2402	-2.49
		2441	-4.11
		2480	-4.76

### 2. MPE Calculation

The Max Conducted Peak Output Power is -2.56 dBm. The Max Antenna Gain is -2.34 dBi.

According to the formula. calculate the EIRP test result: EIRP=  $P \times G = 0.55 \text{ mW} \times 0.58 = 0.32 \text{mW} < 9.525 \text{mW}$ 

So the SAR report is not required.

-End of the Report-

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