FCC ID : 2AJ55HOLYSTONE4T

➢ 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)]*[√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 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 ≤ 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}≤3.0*D_{min})/ f =3.0*5/ [√2.474] =9.537mW

➢ Measurement and Calculation

1. Maximum transmit power

2.4G SRD, Antenna Gain: 0 dBi

Operation Mode	Channel Number	Channel Frequency (MHz)	EIRP (dBm)
2.4G SRD	1	2402	-8.16
	41	2442	-7.18
	78	2479	-9.96
* EIRP[dBm] = E[dBμV/m] + 20 log(d[meters]) - 104.77			

2. MPE Calculation

According to the formula. calculate the EIRP test result:
EIRP= 0.19mW < 9.525mW

So the SAR report is not required.

-End of the Report-