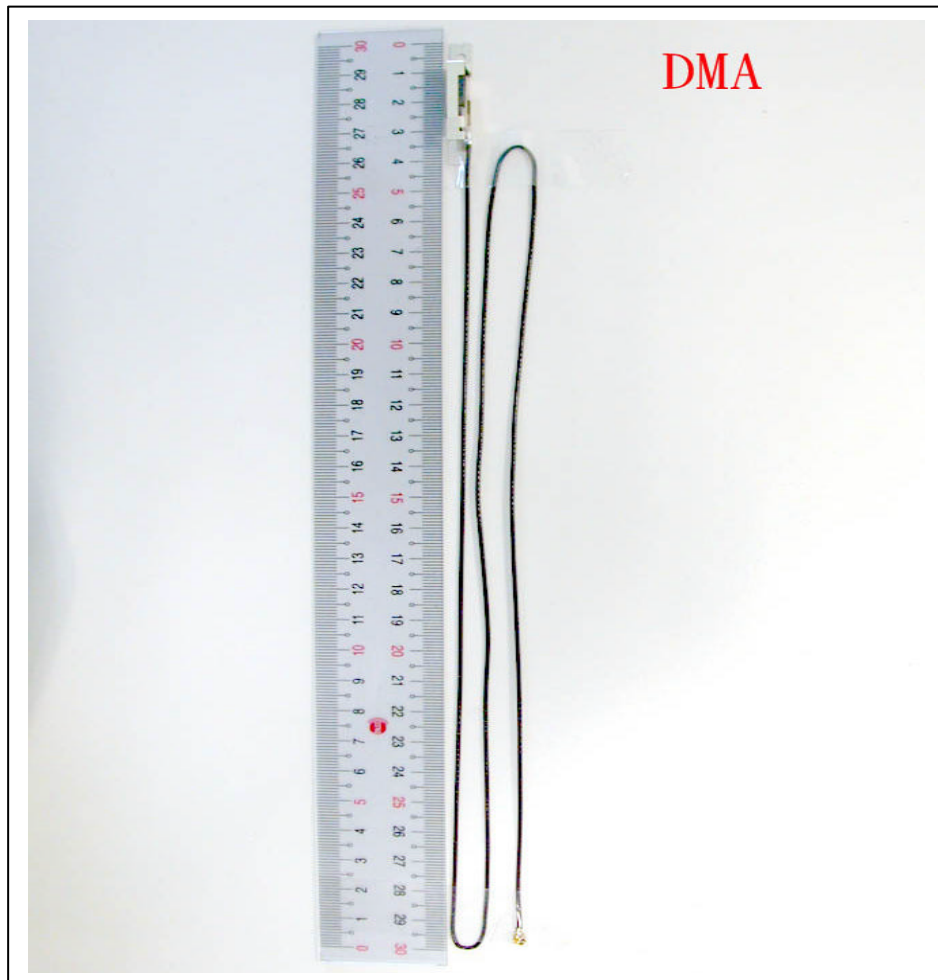


Dear Dennis,
Here are our answers:

1. Ans: The Dipole Antenna 2,3,4,5,6,7,8,9 will be used in router, so the EUT 4 has a minimum 20cm separation between the antenna and the user. For the PIFA Antenna 1 (EUT3), it has two kinds of cable. The short cable is installed in router, and the long cable is installed in Notebook PC. The long cable is about 80cm, and it is large than 20cm. Please see the antenna report, and the attached antenna photo “ long cable”

- Antenna 1: PIFA (DMA , made by Wistron NeWeb) **EUT3**
- Antenna 2: Dipole (GA30038-YMSE , made by GigaAnt Co.) **EUT4**
- Antenna 3: Dipole (FCF-004 , made by Long-Chu Co.)
- Antenna 4: Dipole (DBA-IPEX-01 , made by Long-Chu Co.)
- Antenna 5: Dipole (SRSM5150MRA;SRSM2400MRA ,
made by CUSLICRAFT)
- Antenna 6: Dipole (DBA-BSMA-01 , made by Long-Chu Co.)
- Antenna 7: Dipole (DBA-SSMA-01, made by Long-Chu Co.)
- Antenna 8: Dipole (DBA-IPEX-02 , made by Long-Chu Co.)



Long Cable Antenna Photo

2. Ans: Data transmission is always initiated by software, which is then passed through the MAC, through the digital and analog baseband, and finally to the RF chip. Several special packets (ACKs, CTS, PSpoll, etc...) are initiated by the MAC. These are the only ways by which the digital baseband portion will turn on the RF transmitter, which it then turns off at the end of the packet. Therefore, the transmitter will be on only while one of the aforementioned packets is being transmitted."

3&4 Ans: Yes, the limit should be -27dBm . For the formula

$$E = \frac{1000000\sqrt{30P}}{3} \text{ mV} / m, \text{ where } P \text{ is the eirp (Watts), so, the limit } -27\text{dBm}$$

$=68.3 \text{ dBuV}$, $-17\text{dBm} = 78.3 \text{ dBuV}$. During the test of this report, we also consider the restricted band limit 54dBuV . If the emission can meet 54dBuV limit, it can also meet 68.3dBuV limit. We have written the note in the updated test report. Due to the urgent schedule of this project, if we change the limit, it will waste a lot of time to modify the data, so the limit is remaining 54dBuV . We will update the 68.3 dBuV limit in next time.

5. Ans: The emission reading is peak, and the limit is average (54dBuV). If the peak emission cannot meet the average limit, the average emission will be tested again. We have noted in the report, please see the updated report.

6. Ans: Yes, this is our mistake. They cannot meet the integral criterion, and our customer agrees to give up the application of UNII 5.15 to 5.25GHz band for antenna3, 5, 6, 7. Please see the updated report and manual for this issue.

- Antenna 1: PIFA (DMA , made by Wistron NeWeb) (Integral Ant)
- Antenna 2: Dipole (GA30038-YMSE , made by GigaAnt Co.) (Integral Ant)
- Antenna 3: Dipole (FCF-004 , made by Long-Chu Co.) (Separated Ant)
- Antenna 4: Dipole (DBA-IPEX-01 , made by Long-Chu Co.) (Integral Ant)
- Antenna 5: Dipole (SRSM5150MRA;SRSM2400MRA , made by CUSLICRAFT) (Separated Ant)
- Antenna 6: Dipole (DBA-BSMA-01 , made by Long-Chu Co.) (Separated Ant)
- Antenna 7: Dipole (DBA-SSMA-01, made by Long-Chu Co.) (Separated Ant)
- Antenna 8: Dipole (DBA-IPEX-02 , made by Long-Chu Co.) (Integral Ant)



Please review the information we supplied. If there is any information needed, please advise as soon as possible.

Thanks for your help.

Daphne Liu
International Standards Laboratory