

Response to TCB Findings

1. The peak antenna gain is listed as 2.08dBi in the antenna specifications (first page) and the gain for WLAN antenna is listed as 0.69dBi in the report. Please clarify.

[Donna] The peak antenna gain of 2.08dBi is the original antenna manufacturer specification (isotropic gain, when NOT installed in a host).

The antenna gain for WLAN Ae is 0.69dBi as listed in the test report is specific for this antenna installed in this particular host. Ideally the first 2 pages are NOT relevant to the submission. Please see attached reviewed Appendix F.

2. The antenna gain listed for the BT radio in the report is 0.12dBi, different from the WLAN antenna. They appear to be the same antenna in the report. Please clarify the difference.

[Donna] The antenna for BT radio used is the Right-Side antenna document. The highest antenna gain of the Right-Side Antenna was 0.12dBi (2.4GHz). Refer to Appendix B3 for antenna location.

The antenna for WLAN radio used is the Under-Left antenna (next to WLAN module). The highest antenna gain of the Under-Left Antenna was 0.69dBi (2.4GHz).

Both BT (Right-Side) and WLAN (Under-Left) antennas are Monopole Ceramic Chip, Model YCE-5008. As explained in item 3 above, the antenna gains measured are specific for this host and based on their location, the antenna gain is different.

3. The antenna location pictures for both radios show only one of the antenna's location, but not the other. (For example, where does the cable connected to the AUX port of the WLAN go to ? and same issue for the BT radio) Please clarify how the other antenna ports are being used on the modules. If they are used as well, the pictures of their corresponding antenna locations are required. Please clarify.

[Donna] WLAN module main antenna port is connected to WLAN main antenna (Ae next to the WLAN as shown in the photo).

The WLAN module Aux Antenna port is connected to WLAN Aux Antenna via Bluetooth circuitry. This is to disable the WLAN Aux Antenna for WLAN transmission when Bluetooth is used. Bluetooth is only connected to the Bluetooth Antenna/WLAN Aux Antenna. There are only 2 antennas in total for both WLAN and Bluetooth operation. Both antennas are shown in the supplied photos.