1. Antennas

1.1 Information for all the antennas, i.e., type, gain and relative positions within host, must be included in the filing

The antenna information and antenna position diagram are as follows:

Antenna Type	Manufacturer	Model/Part No.	Gain (dBi)	Frequency Range (MHz)
Omni	MikroTik	ANT1/3: Flex PCB antenna ANT2/4: HGO-IN-UFL	ANT1:3.89 dBi ANT 2:5.04 dBi ANT 3:3.71 dBi ANT 4:5.04 dBi MIMO:10.46 dBi	2400-2483.5
Omni	MikroTik	ANT1/3: Flex PCB antenna ANT2/4: HGO-IN-UFL	ANT 1：5.70 dBi ANT 2：6.01 dBi ANT 3：3.99 dBi ANT 4：6.01 dBi	5150-5895
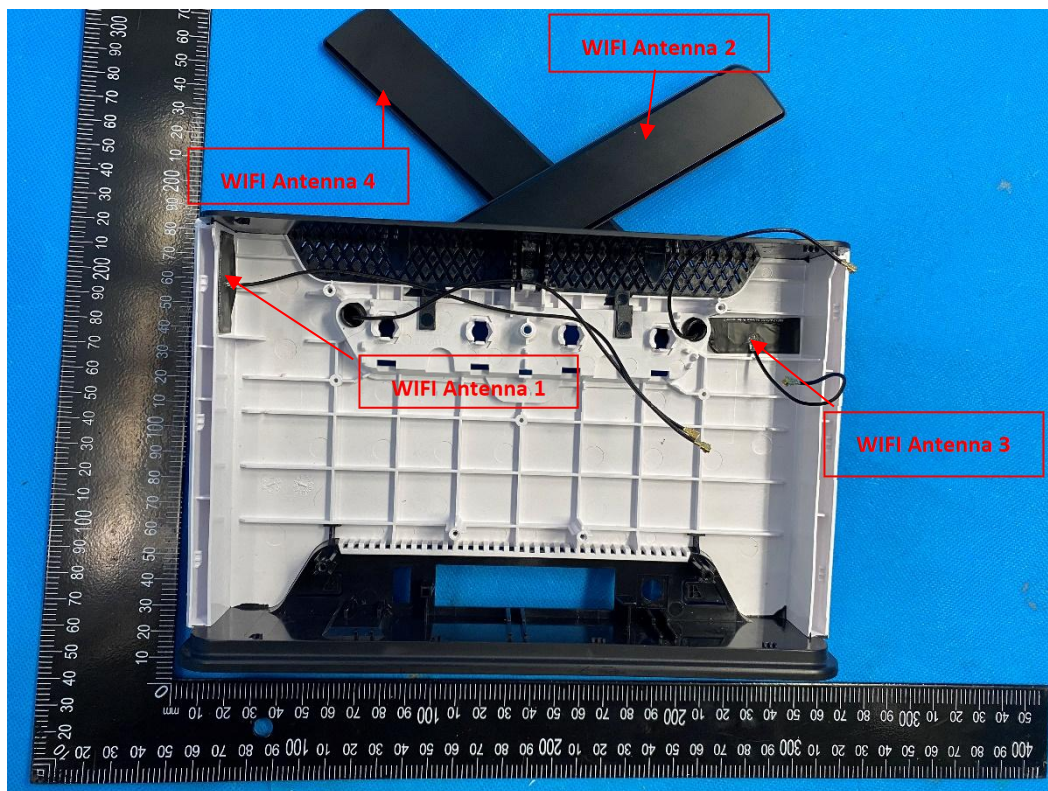
1.2 Show how the (aggregate, if applicable) antenna gain was computed/measured (as in TCB Workshop Presentation Aggregate Antenna Gain Review, April 2021). Provide equation(s) used to calculate Directional Gain and provide example calculation showing how the DG was calculated with the antenna gain of individual antennas. Provide details (references or attached documents) on how the individual antenna gains were derived, i.e., declared by the host manufacturer, based on data sheet, or measured. Since the CBP needs to detect a small signal, the worst case scenario to consider is when the receiver has the lowest antenna gain.

6/12 Reply: "TR_STS2310303W05_RF_5G WIFI_PART 15.407"报告第11页已有对应描述

The corresponding description is already available on page 11 of the report "TR_STS2310303W05-RF_5G WIFI-PART 15.407"

Directional Gain Calculations for In-Band Measurements

a) Basic methodology with NANT transmit antennas, each with the same directional gain GANT dBi, being driven by NANT transmitter outputs of equal power. Directional gain is to be computed as follows:

(i) If any transmit signals are correlated with each other,

  Directional gain = GANT + 10 log(NANT) dBi

(ii) If all transmit signals are completely uncorrelated with each other,

  Directional gain = GANT

ANT 1：5.70 dBi

ANT 2：6.01 dBi

ANT 3：3.99 dBi

ANT 4：6.01 dBi

MIMO：11.49 dBi

1.3 Indoor devices shall have an integrated antenna.

6/12 Reply:此产品有内置天线

This product has an integrated antenna

2. Labelling

2.1 Label showing "Indoor Use Only" for Subordinate and APs.

6/12 Reply: 标签已添加描述"Indoor Use Only"

The label has added a description of "Indoor Use Only"

2.2 E-labelling may be acceptable if proper justification is provided.

6/12 Reply: 不适用

Not applicable

3. Band Edge Measurements

3.1 Band Edge measurements made below 5725 MHz are to be made with a Peak detector.

6/12 Reply: "TR_STS2310303W05_RF_5G WIFI_PART 15.407"报告第 50 页测试项结果已经符合 15.517(c)要求。

The test item results on page 50 of the report "TR-STS2310303W05-RF_5G WIFI-PART 15.407" have met the requirements of 15.517 (c).

3.2 Band Edge measurements above 5895 MHz are to be made with an RMS detector.

6/12 Reply: "TR_STS2310303W05_RF_5G WIFI_PART 15.407"报告第 61 页测试项结果已经符合

15.517(c)要求。

The test item results on page 61 of the report "TR-STS2310303W05-RF_5G WIFI-PART 15.407" have met the requirements of 15.517 (c).

3.3 Band Edge measurements above 5895 MHz should also include Peak plots to show compliance with 15.35(b) where the peak emissions must be limited to no more than 20 dB above the average limit.

6/12 Reply: "TR_STS2310303W05_RF_5G WIFI_PART 15.407"报告第 61 页测试项结果已经符合 15.517(c)要求

6/12 Reply: The test item results on page 61 of the report "TR_STS2310303W05-RF_5G WIFI-PART 15.407" have met the requirements of 15.517 (c)

4. Declaration Requirements

The application should contain a declaration letter which satisfies the declaration requirements from Section 3. of KDB 291074 D02.

6/12 Reply: 已提供文件 Declarations Required in applications for certification，满足 KDB 291074 D02. 要求

The document "Declarations Required in Applications for Certification" has been provided, meeting the requirements of KDB 291074 D02

5. Indoor Device Limitations

5.1 Indoor Access Points and Subordinate Devices cannot use weatherized enclosure.

6/12 Reply: 此室内设备未使用防爆外壳

This indoor equipment is not using an weatherized enclosure

5.2 May not be battery powered. Power must be provided from a wired permanent indoor local power connection.

Automatic battery back operation is permitted during power loss.

6/12 Reply: 此产品无电池，电源由室内固定的有线电源提供。

This product has no battery and is powered by a fixed wired indoor power supply.

6. Modular Certifications (when applicable)

6.1 Modular approval letter to be uploaded with the application

6.2 No subordinate devices can be modules

6.3 Show notification for the host manufacturer about referencing KDB Publication 996369 D04 Module Integration Guide

6/12 Reply: 不适用

7. Security

Provide specific exhibit with device security description is required (complying with 47 CFR § 15.407(i).

6/12 Reply: 已经提供文档 SOFTWARE SECURITY REQUIREMENTS FOR U-NII DEVICES，已经符合 47 CFR § 15.407(i)要求。

8. Spurious Emissions

Show that measurements are made at the prescribed antenna heights, per KDB Publication 291074 D02, including measurements along all three axes, as per ANSI C63.10.

6/12 Reply: TR_STS2310303W05_RF_5G WIFI_PART 15.407 报告第 30 页测试项结果已经符合 KDB Publication 291074 D02 和 ANSI C63.10 要求。

The test item results on page 30 of TR-STS2310303W05-RF-5G WIFI-PART 15.407 report have met the requirements of KDB Publication 291074 D02 and ANSI C63.10.

9. Hearing Aid Compatibility (when applicable)

4.1 Confirm that VoLTE cannot be transported over 5G NR sub 6 GHz. If so, must state that in the OTT declaration of pre-install of OTT voice service and test report.

6/12 Reply: 不适用

Not applicable

4.2 Manufacture must provide an attestation (cover letter) confirming that the results using ABM1 values obtained from VoLTE connections over LTE bands and ABM2 values for 5G NR sub 6 GHz connections over the same bands provide a reasonable representation of the HAC rating over the 5G NR sub 6 GHz connections.

6/12 Reply: 不适用

Not applicable