

# FCC SAR Test Report

APPLICANT : Zebra Technologies Corporation  
EQUIPMENT : Enterprise Tablet  
BRAND NAME : ZEBRA  
MODEL NAME : ET4010A  
FCC ID : UZ7ET4010A  
STANDARD : FCC 47 CFR Part 2 (2.1093)

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.



Approved by: Si Zhang

**Sporton International Inc. (Kunshan)**

No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300  
People's Republic of China



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## Revision History

| REPORT NO. | VERSION | DESCRIPTION             | ISSUED DATE   |
|------------|---------|-------------------------|---------------|
| FA551202   | Rev. 01 | Initial issue of report | Sep. 12, 2025 |
|            |         |                         |               |
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|            |         |                         |               |

## 1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for **Zebra Technologies Corporation, Enterprise Tablet, ET4010A**, are as follows.

| Highest 1g SAR Summary |                |                  |                       |                                                    |
|------------------------|----------------|------------------|-----------------------|----------------------------------------------------|
| Equipment Class        | Frequency Band |                  | Body (Separation 0mm) | Highest Simultaneous Transmission<br>1g SAR (W/kg) |
|                        |                |                  | 1g SAR (W/kg)         |                                                    |
| DTS                    | WLAN           | 2.4GHz WLAN      | 1.04                  | 1.43                                               |
| NII                    |                | 5GHz WLAN        | 1.09                  | 1.43                                               |
| 6CD                    |                | 6GHz WLAN        | <b>1.18</b>           | 1.52                                               |
| VLP                    |                | 6GHz WLAN        | 0.90                  | 1.52                                               |
| DSS                    | Bluetooth      | 2.4GHz Bluetooth | 0.12                  | 1.52                                               |

| Equipment Class  | Frequency Band | Measured APD          | Scaled PD    |
|------------------|----------------|-----------------------|--------------|
|                  |                | Body (W/m^2)          | psPD (W/m^2) |
| 6CD              | 6GHz WLAN      | 7.08                  | 7.37         |
| VLP              | 6GHz WLAN      | 5.23                  |              |
| Date of Testing: |                | 2025/7/21 ~ 2025/9/12 |              |

### Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

### Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR) specified in FCC 47 CFR part 2 (2.1093), and Human Exposure to RF Radiation Limits (1.0 mW/cm<sup>2</sup>=10 W/m<sup>2</sup>) specified in FCC 47 CFR part 1.1310 and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

## 2. Administration Data

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

| Testing Laboratory |                                                                                                                                                |                     |                                |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Kunshan)                                                                                                           |                     |                                |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158 |                     |                                |
| Test Site No.      | Sporton Site No.                                                                                                                               | FCC Designation No. | FCC Test Firm Registration No. |
|                    | SAR04-KS, SAR05-KS                                                                                                                             | CN1257              | 314309                         |

| Applicant    |                                              |
|--------------|----------------------------------------------|
| Company Name | Zebra Technologies Corporation               |
| Address      | 3 Overlook Point, Lincolnshire, IL 60069 USA |

| Manufacturer |                                              |
|--------------|----------------------------------------------|
| Company Name | Zebra Technologies Corporation               |
| Address      | 3 Overlook Point, Lincolnshire, IL 60069 USA |

## 3. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards:

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- IEC/IEEE 62209-1528:2020
- IEC TR 63170:2018
- IEC 62479:2010
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 248227 D01 802.11 Wi-Fi SAR v02r02
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- SPEAG DASY6 Application Note (Interim Procedure for Device Operation at 6GHz-10GHz)



## 4. Equipment Under Test (EUT) Information

### 4.1 General Information

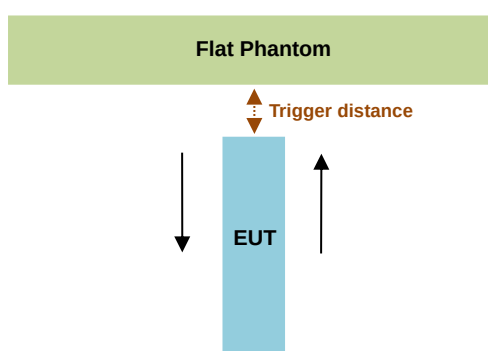
| Product Feature & Specification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Enterprise Tablet                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Brand Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ZEBRA                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Model Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ET4010A                                                                                                                                                                                                                                                                                                                                                                                                                               |
| FCC ID                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | UZ7ET4010A                                                                                                                                                                                                                                                                                                                                                                                                                            |
| S/N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sample 1: 251505247E0093, 251505247E0062<br>Sample 2: 251505247E0028                                                                                                                                                                                                                                                                                                                                                                  |
| Wireless Technology and Frequency Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | WLAN 2.4GHz Band: 2412 MHz ~ 2462 MHz<br>WLAN 5.2GHz Band: 5180 MHz ~ 5240 MHz<br>WLAN 5.3GHz Band: 5260 MHz ~ 5320 MHz<br>WLAN 5.5GHz Band: 5500 MHz ~ 5720 MHz<br>WLAN 5.8GHz Band: 5745 MHz ~ 5825 MHz<br>WLAN 6GHz U-NII 5: 5925 MHz ~ 6425 MHz<br>WLAN 6GHz U-NII 6: 6425 MHz ~ 6525 MHz<br>WLAN 6GHz U-NII 7: 6525 MHz ~ 6875 MHz<br>WLAN 6GHz U-NII 8: 6875 MHz ~ 7125 MHz<br>Bluetooth: 2402 MHz ~ 2480 MHz<br>NFC: 13.56 MHz |
| Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | WLAN 2.4GHz 802.11b/g/n HT20<br>WLAN 2.4GHz 802.11ac/ax VHT20/HE20<br>WLAN 2.4GHz 802.11be EHT20<br>WLAN 5GHz 802.11a/n HT20/HT40<br>WLAN 5GHz 802.11ac VHT20/VHT40/VHT80/VHT160<br>WLAN 5GHz 802.11ax/be HE20/HE40/HE80/HE160/EHT20/EHT40/EHT80/EHT160<br>WLAN 6GHz 802.11a/ax HE20/HE40/HE80/HE160<br>WLAN 6GHz 802.11be EHT20/EHT40/EHT80/EHT160/EHT320<br>Bluetooth BR/EDR/LE<br>NFC: ASK                                         |
| HW Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EV1                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| SW Version                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | qssi_64-userdebug 15 15-07-16.00-VG-U00-PRD-ERS-04 210 release-keys                                                                                                                                                                                                                                                                                                                                                                   |
| MFD                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 16JUL25                                                                                                                                                                                                                                                                                                                                                                                                                               |
| EUT Stage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Identical Prototype                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Remark:</b> <ol style="list-style-type: none"><li>1. This device does not support voice function.</li><li>2. The device supports WLAN2.4GHz MIMO CDD mode for 11b/g/n/ac/ax/be and WLAN5GHz MIMO CDD mode for 11a/n/ac/ax/be and Tx Beamforming mode for 11ax/be.</li><li>3. The device supports WIFI6GHz MIMO CDD mode for 802.11a, and support CDD &amp; SDM &amp; TXBF mode for 802.11ax/be.</li><li>4. The device supports 1S2T (CDD) and 2S2T (SDM) mode; 1S2T: Nss=1, MIMO 2Tx; 2S2T: Nss=2, MIMO 2Tx.</li><li>5. The device implements Proximity sensors/handheld trigger reduced power for SAR compliance at different exposure conditions (body). The device will invoke corresponding work scenarios power level base on frequency bands/antennas.</li><li>6. The device support HBS (High Band Simultaneous) function, when the device WLAN 2.4GHz and WLAN 5GHz (or WLAN 6GHz) transmit at the same time it will limit different output power for simultaneous transmission compliance.</li><li>7. There are two samples: Sample 1 without Scanner and Sample 2 with Scanner. According to the difference, sample 1 was chosen to perform full testing and the sample 2 are verified the difference with the sample 1.</li><li>8. This device has NFC function and the NFC SAR report will be separately submitted.</li></ol> |                                                                                                                                                                                                                                                                                                                                                                                                                                       |

| Accessories Information                  |            |          |             |                    |
|------------------------------------------|------------|----------|-------------|--------------------|
| Battery                                  | Brand Name | Zebra    | Model       | BT-000527          |
| AC Adapter 1<br>(TYPE C Wall Charger 1)  | Brand Name | Zebra    | Part Number | PWR-WUA5V45W1US    |
| Earphone 1<br>(Wired headset USB-C)      | Brand Name | Zebra    | Part Number | HDST-USBC-PTT 1-01 |
| Earphone 2<br>(Rugged Bluetooth Headset) | Brand Name | Zebra    | Part Number | HS3100-0TH         |
| Earphone 3<br>(3.5mm PTT Headset)        | Brand Name | Zebra    | Part Number | HDST-35MM-PTT 1-02 |
| Earphone 4<br>(Rugged Headset)           | Brand Name | Zebra    | Part Number | HS2100-0TH         |
| Earphone 5<br>(USB-C Wired Earbuds)      | Brand Name | Avantree | Part Number | C171               |
| Type C-Audio Cable<br>(Type C to 3.5mm)  | Brand Name | Zebra    | Part Number | ADP-USBC-35MM1-01  |
| 3.5mm to 3.5mm audio connector           | Brand Name | Zebra    | Part Number | CBL-HS2100-3MS1-01 |
| USB Cable 1<br>(USB-C to C Cable)        | Brand Name | Zebra    | Part Number | CBL-EC5X-USBC3A-01 |
| USB Cable 2<br>(USB-A to C Cable)        | Brand Name | Zebra    | Part Number | CBL-TC5X-USBC2A-01 |
| USB Cable 3<br>(USB-C to C Cable)        | Brand Name | Zebra    | Part Number | CBL-TN28-USBC2C-01 |

## 5. Proximity Sensor Triggering Test

### <Proximity Sensor Triggering Distance (KDB 616217 D04 section 6.2)>:

1. Proximity sensor triggering distance testing was performed according to the procedures outlined in KDB 616217 D04 section 6.2, and EUT moving further away from the flat phantom and EUT moving toward the flat phantom were both assessed and the tissue-equivalent medium for highest frequency (7125MHz) and lowest frequency (2450MHz) was used for proximity sensor triggering testing.
2. Capacitive proximity sensor placed coincident with antenna elements at the bottom face, Edge1, and Edge4 of the device are utilized to determine when the device comes in proximity of the user's body at the bottom face, Edge1, and Edge4 of the device. There is no need to do sensor coverage testing for the proximity sensor is designed to support sufficient detection range and sensitivity to cover regions of the sensors in all applicable directions since the proximity sensor entirely covers the antenna.
3. When the sensor is active, all WLAN bands reduced power will be active.
4. The sensors used to detect the proximity of the user's body at the bottom face, Edge1, and Edge4 of the device use a detection threshold distance. The data shown in the sections below shows the distance(s).



### <Ant6 Frequency Bands>

| Proximity Sensor Triggering Distance (mm) |             |                |             |                |
|-------------------------------------------|-------------|----------------|-------------|----------------|
| Position                                  | Bottom Face |                | Edge 4      |                |
|                                           | Moving away | Moving towards | Moving away | Moving towards |
| Minimum                                   | 33          | 29             | 35          | 31             |

### <Ant7 Frequency Bands>

| Proximity Sensor Triggering Distance (mm) |             |                |             |                |
|-------------------------------------------|-------------|----------------|-------------|----------------|
| Position                                  | Bottom Face |                | Edge 1      |                |
|                                           | Moving away | Moving towards | Moving away | Moving towards |
| Minimum                                   | 24          | 21             | 31          | 25             |

**<Proximity Sensor Triggering Coverage (KDB 616217 D04 section 6.3)>:**

If a sensor is spatially offset from the antenna(s), it is necessary to verify sensor triggering for conditions where the antenna is next to the user but the sensor is laterally further away to ensure sensor coverage is sufficient for reducing the power to maintain compliance. For p-sensor coverage testing, the device is moved and “along the direction of maximum antenna and sensor offset”.

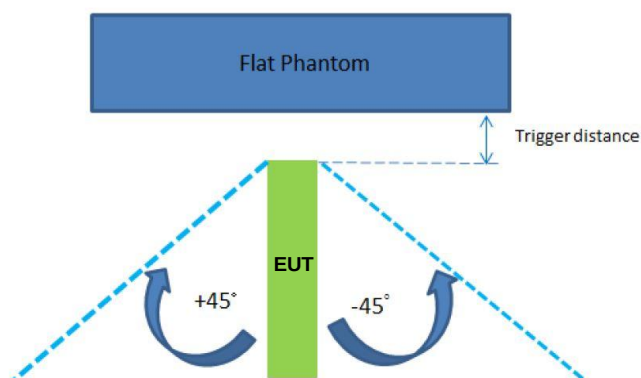
Illustrated in the internal photo exhibit, although the sensor is spatially offset, there is no trigger condition where the antenna is next to the user but the sensor is laterally further away, therefore proximity sensor coverage testing is not required.

This procedure is not required because antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

**<Tablet Tilt angle influences to proximity sensor triggering (KDB 616217 D04 section 6.4)>:**

The influence of table tilt angles to proximity sensor triggering was determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at 31mm at Edge 4 separation for Ant6 bands and 25mm at Edge 1 for Ant7 Bands.

Rotating the tablet around the edge next to the phantom in  $\leq 10^\circ$  increments until the tablet is  $\pm 45^\circ$  from the vertical position at  $0^\circ$ , and the maximum output power remains in the reduced mode.



**<Ant6 Frequency Bands>**

| The Sensor Trigger Distance (mm) |        |
|----------------------------------|--------|
| Position                         | Edge 4 |
| Minimum                          | 31     |

**<Ant7 Frequency Bands>**

| The Sensor Trigger Distance (mm) |        |
|----------------------------------|--------|
| Position                         | Edge 1 |
| Minimum                          | 25     |

**Proximity sensor power reduction**

| Exposure Position /<br>wireless mode for Ant6 | Bottom Face <sup>(1)</sup> | Edge 1 | Edge 2 | Edge 3 | Edge 4 <sup>(1)</sup> |
|-----------------------------------------------|----------------------------|--------|--------|--------|-----------------------|
| WLAN 2.4GHz                                   | 8.5 dB                     | 0 dB   | 0 dB   | 0 dB   | 8.50 dB               |
| WLAN 5.2GHz                                   | 12.0 dB                    | 0 dB   | 0 dB   | 0 dB   | 12.00 dB              |
| WLAN 5.3GHz                                   | 11.5 dB                    | 0 dB   | 0 dB   | 0 dB   | 11.50 dB              |
| WLAN 5.5GHz                                   | 11.0 dB                    | 0 dB   | 0 dB   | 0 dB   | 11.00 dB              |
| WLAN 5.8GHz                                   | 10.5 dB                    | 0 dB   | 0 dB   | 0 dB   | 10.50 dB              |
| WLAN 6GHz U-NII 5                             | 6.0 dB                     | 0 dB   | 0 dB   | 0 dB   | 6.00 dB               |
| WLAN 6GHz U-NII 6                             | 7.0 dB                     | 0 dB   | 0 dB   | 0 dB   | 7.00 dB               |
| WLAN 6GHz U-NII 7                             | 8.5 dB                     | 0 dB   | 0 dB   | 0 dB   | 8.50 dB               |
| WLAN 6GHz U-NII 8                             | 5.5 dB                     | 0 dB   | 0 dB   | 0 dB   | 5.50 dB               |

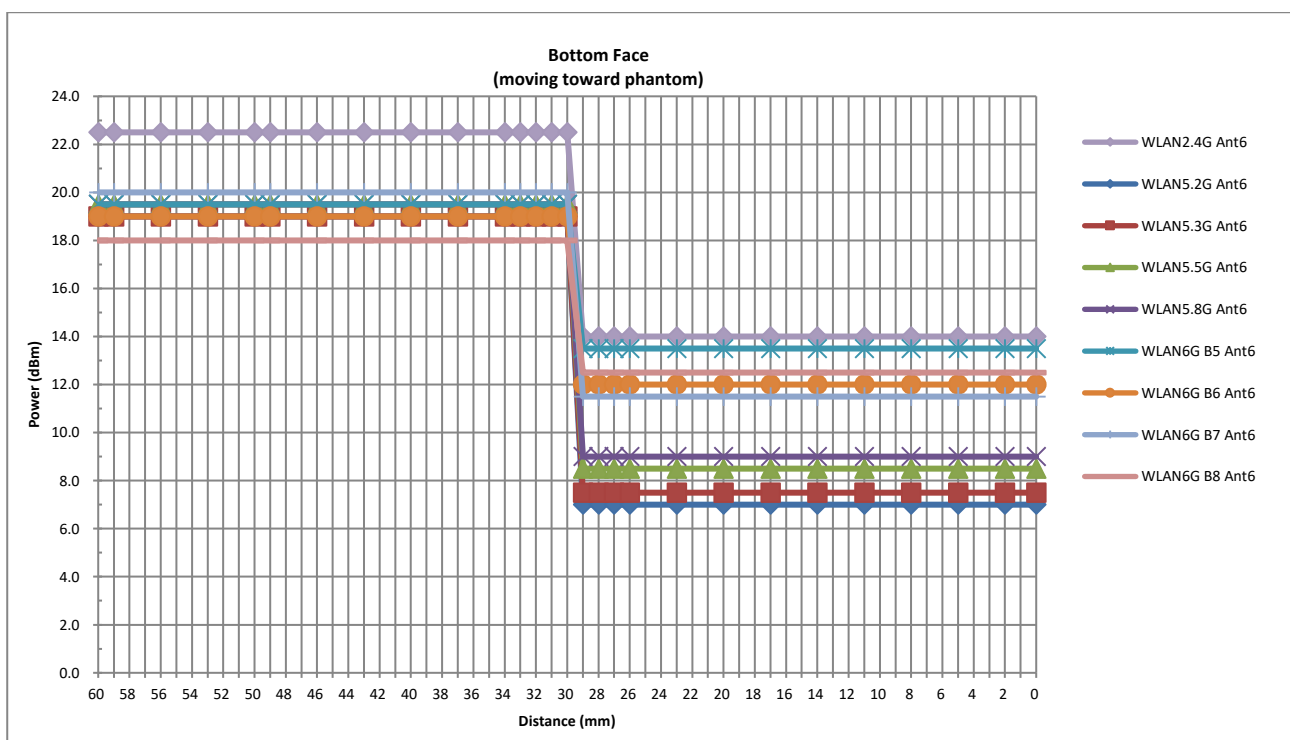
| Exposure Position /<br>wireless mode for Ant7 | Bottom Face <sup>(1)</sup> | Edge 1 <sup>(1)</sup> | Edge 2 | Edge 3 | Edge 4 |
|-----------------------------------------------|----------------------------|-----------------------|--------|--------|--------|
| WLAN 2.4GHz                                   | 6.0 dB                     | 6.0 dB                | 0 dB   | 0 dB   | 0 dB   |
| WLAN 5.2GHz                                   | 11.5 dB                    | 11.5 dB               | 0 dB   | 0 dB   | 0 dB   |
| WLAN 5.3GHz                                   | 11.5 dB                    | 11.5 dB               | 0 dB   | 0 dB   | 0 dB   |
| WLAN 5.5GHz                                   | 10.0 dB                    | 10.0 dB               | 0 dB   | 0 dB   | 0 dB   |
| WLAN 5.8GHz                                   | 8.0 dB                     | 8.0 dB                | 0 dB   | 0 dB   | 0 dB   |
| WLAN 6GHz U-NII 5                             | 6.5 dB                     | 6.5 dB                | 0 dB   | 0 dB   | 0 dB   |
| WLAN 6GHz U-NII 6                             | 5.5 dB                     | 5.5 dB                | 0 dB   | 0 dB   | 0 dB   |
| WLAN 6GHz U-NII 7                             | 6.5 dB                     | 6.5 dB                | 0 dB   | 0 dB   | 0 dB   |
| WLAN 6GHz U-NII 8                             | 5.0 dB                     | 5.0 dB                | 0 dB   | 0 dB   | 0 dB   |

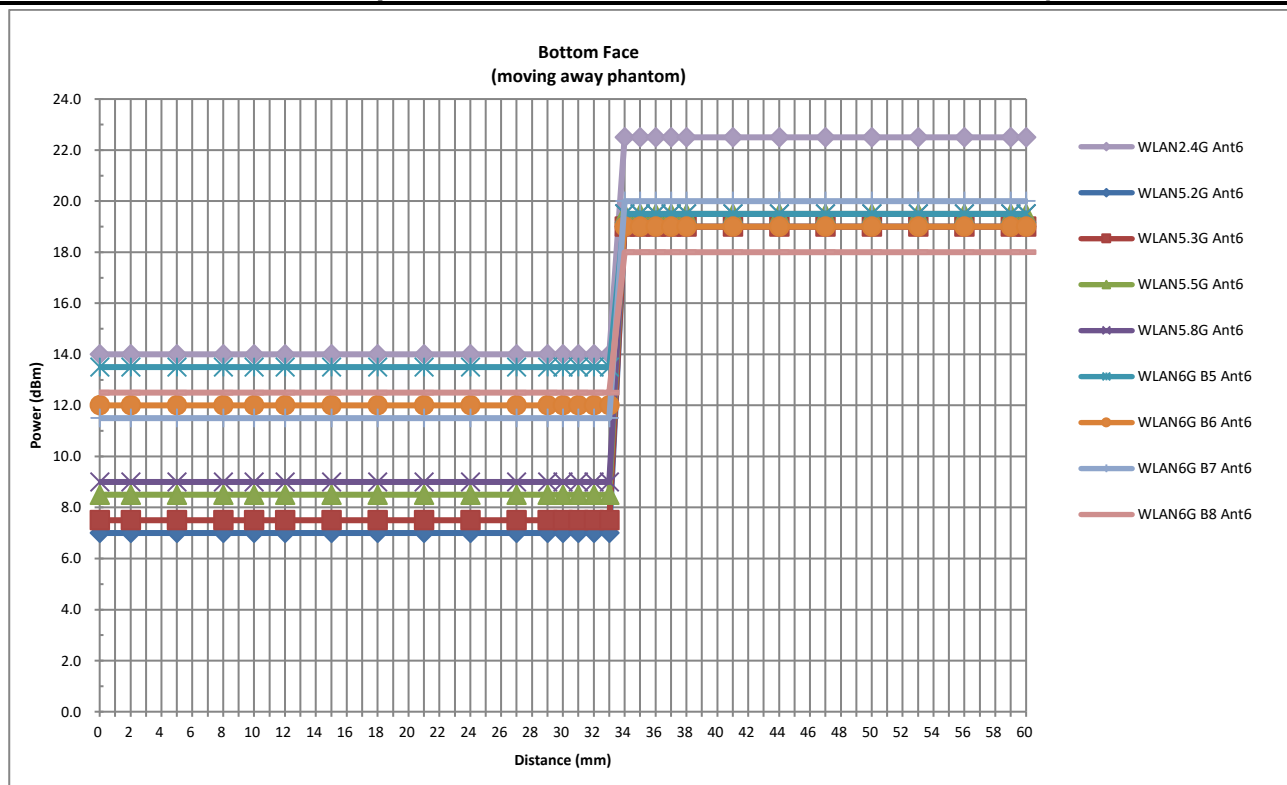
**Remark:**

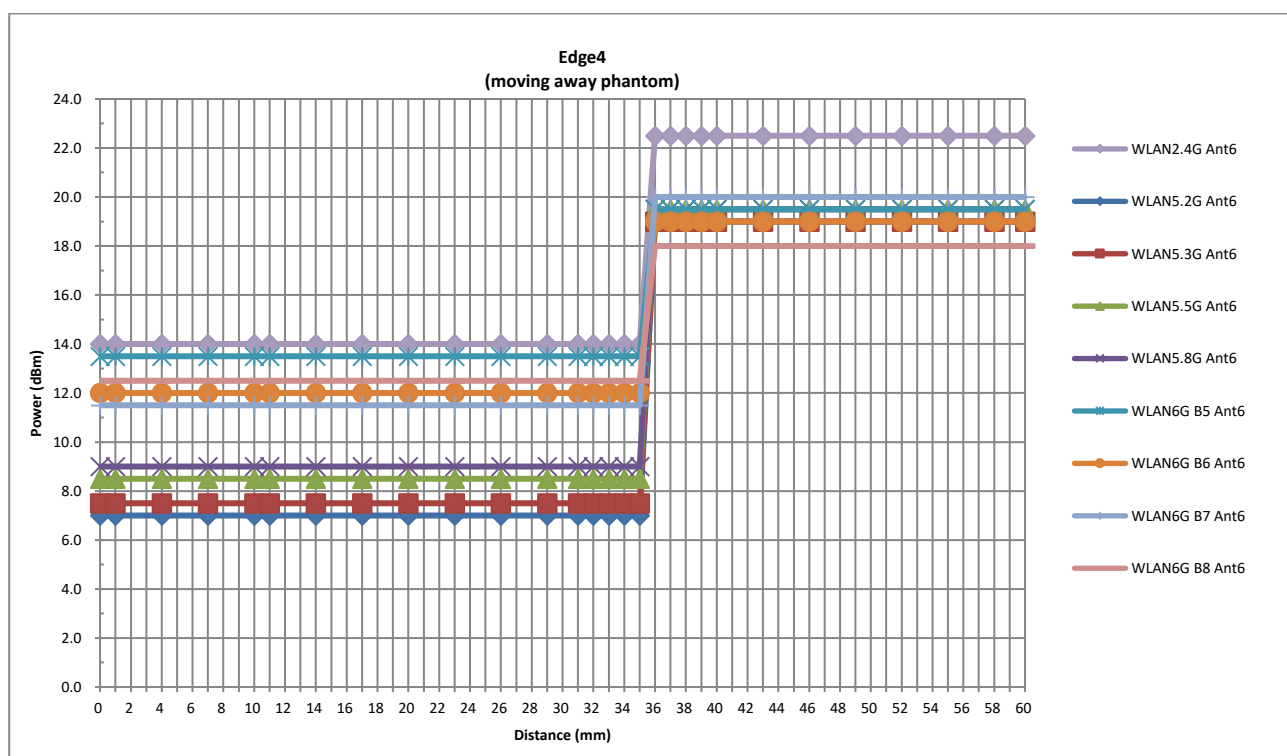
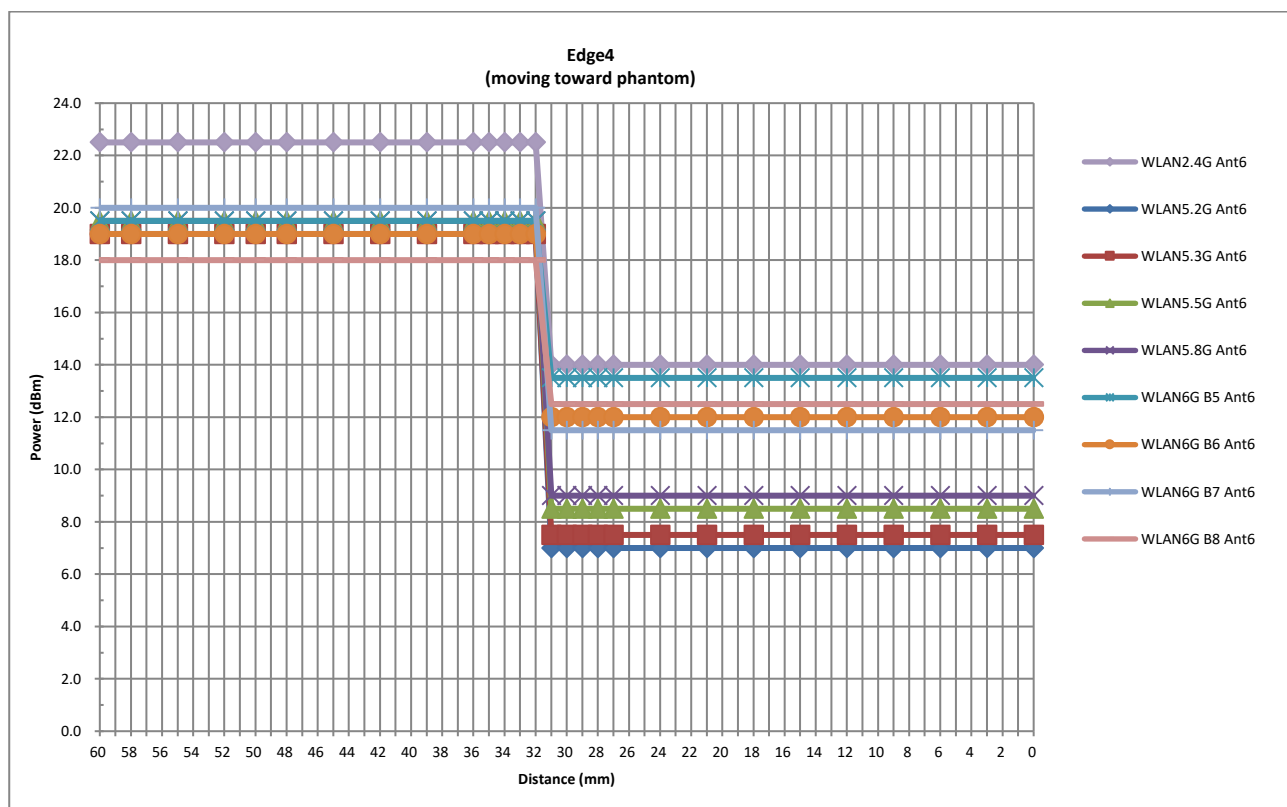
- <sup>(1)</sup>: Reduced maximum limit applied by activation of proximity sensor.
- Power reduction is not applicable for Bluetooth.
- Tests were performed in accordance with KDB 616217 D04 section 6.1, 6.2, 6.3, 6.4 and 6.5 and compliant results are shown and described in exhibit "P-Sensor operational description"
- For verification of compliance of power reduction scheme, additional SAR testing with EUT transmitting at full RF power at a conservative trigger distance was performed:  
For Ant 6:
  - Bottom Face: 28mm
  - Edge 4: 30mm  
For Ant 7:
  - Bottom Face: 20mm
  - Edge 1: 24mm

Power Measurement during Sensor Trigger distance testing

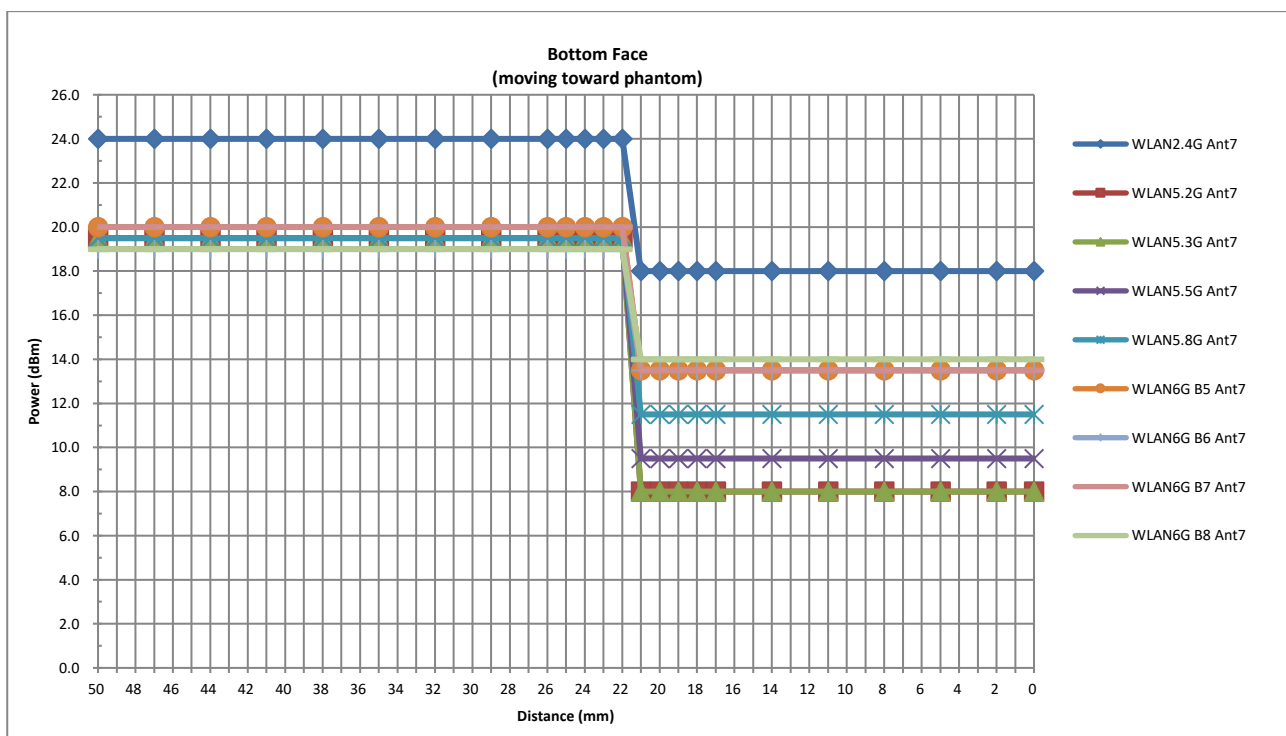
| Band/Mode for Ant6 | Measured power reduction (dBm) |                   | Reduction Levels (dB) |
|--------------------|--------------------------------|-------------------|-----------------------|
|                    | w/o power back-off             | w/ power back-off |                       |
| WLAN 2.4GHz        | 22.50                          | 14.00             | 8.5                   |
| WLAN 5.2GHz        | 19.00                          | 7.00              | 12.0                  |
| WLAN 5.3GHz        | 19.00                          | 7.50              | 11.5                  |
| WLAN 5.5GHz        | 19.50                          | 8.50              | 11.0                  |
| WLAN 5.8GHz        | 19.50                          | 9.00              | 10.5                  |
| WLAN 6GHz U-NII 5  | 19.50                          | 13.50             | 6.0                   |
| WLAN 6GHz U-NII 6  | 19.00                          | 12.00             | 7.0                   |
| WLAN 6GHz U-NII 7  | 20.00                          | 11.50             | 8.5                   |
| WLAN 6GHz U-NII 8  | 18.00                          | 12.50             | 5.5                   |

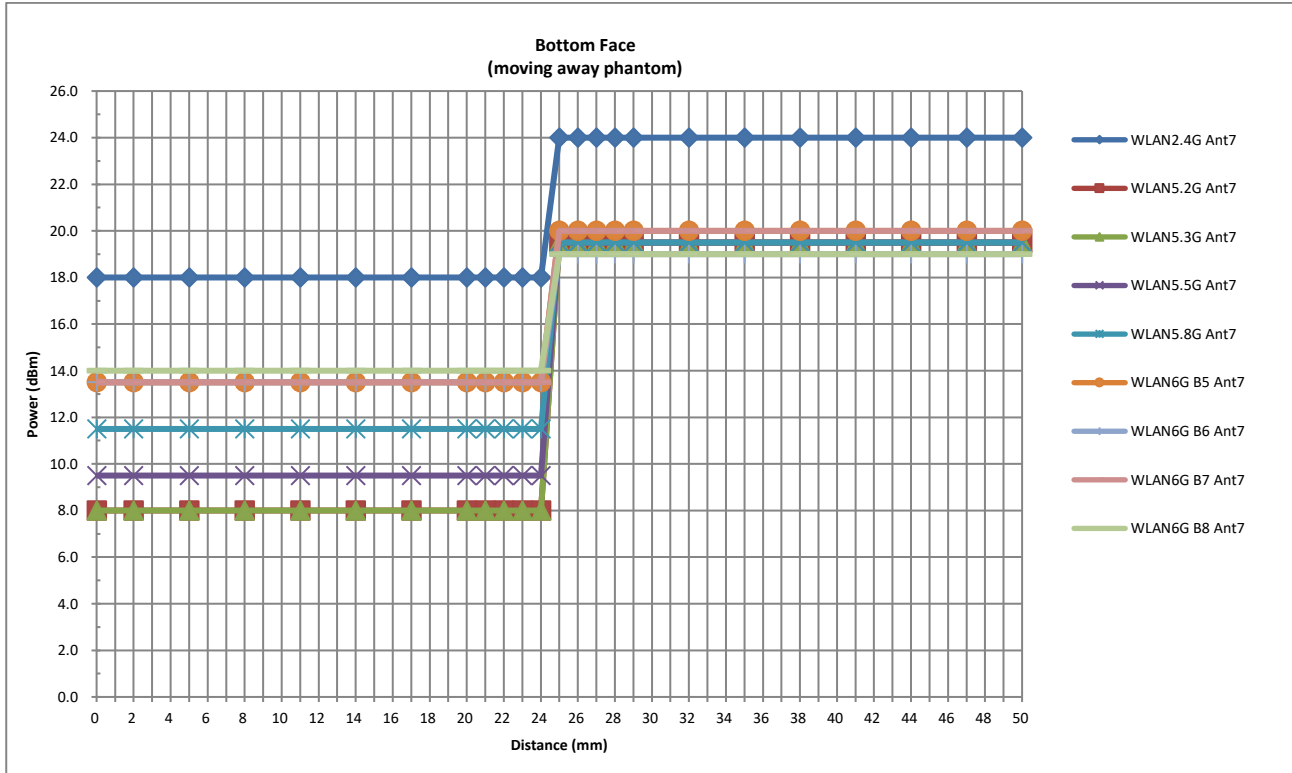


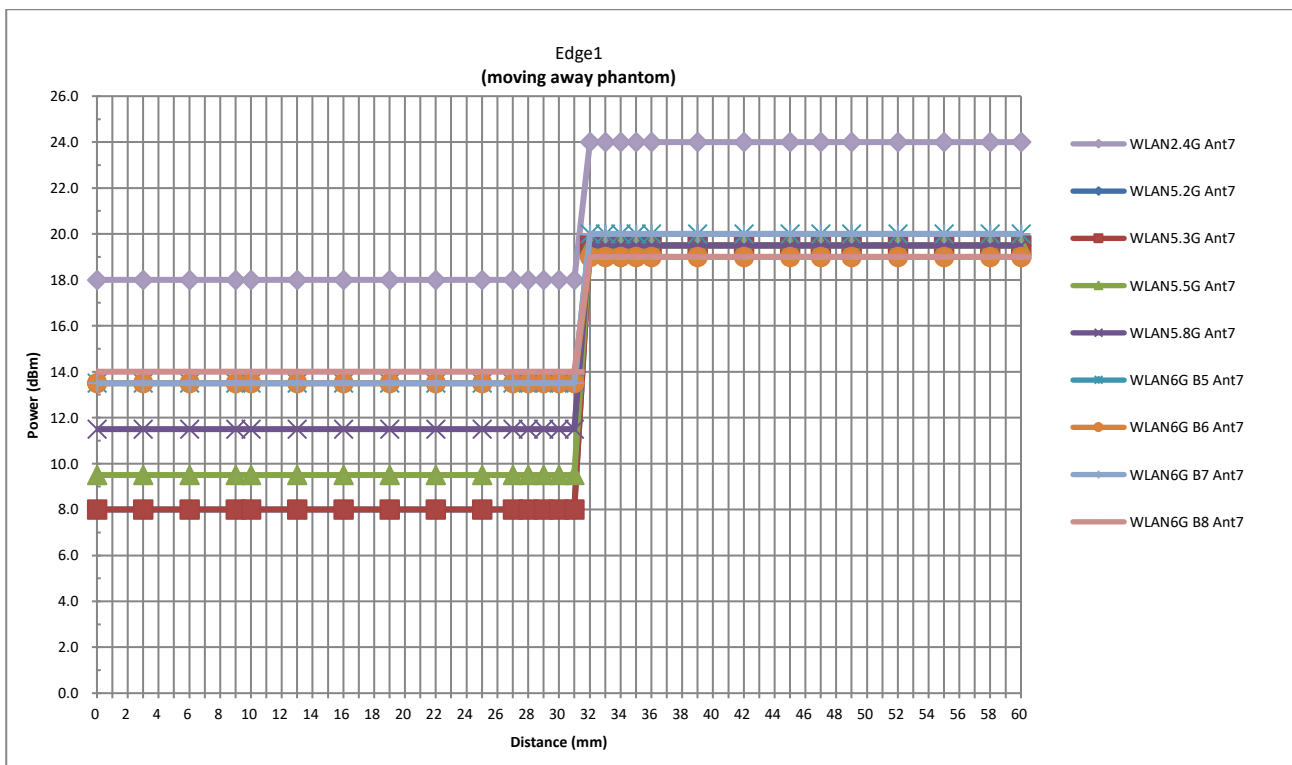
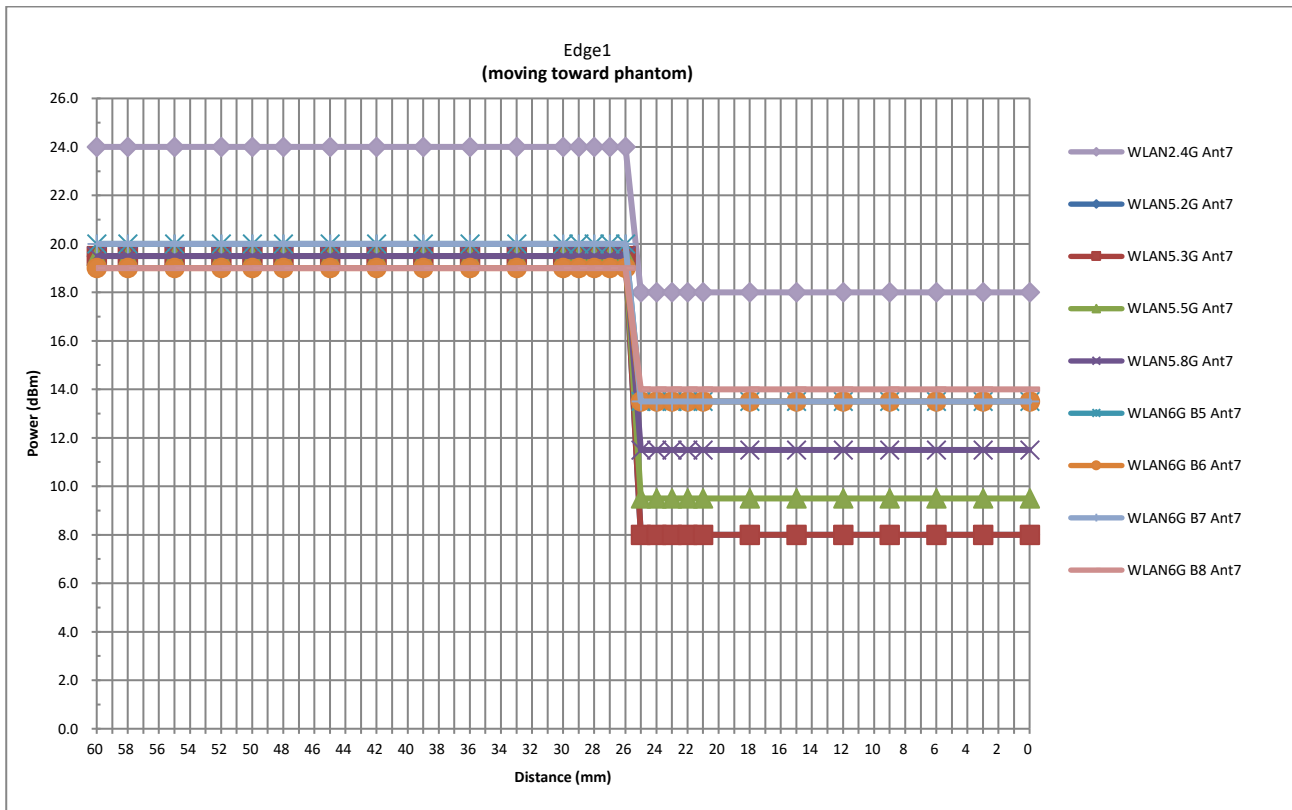




| Band/Mode for Ant7 | Measured power reduction (dBm) |                   | Reduction Levels (dB) |
|--------------------|--------------------------------|-------------------|-----------------------|
|                    | w/o power back-off             | w/ power back-off |                       |
| WLAN 2.4GHz        | 24.00                          | 18.00             | 6.0                   |
| WLAN 5.2GHz        | 19.50                          | 8.00              | 11.5                  |
| WLAN 5.3GHz        | 19.50                          | 8.00              | 11.5                  |
| WLAN 5.5GHz        | 19.50                          | 9.50              | 10.0                  |
| WLAN 5.8GHz        | 19.50                          | 11.50             | 8.0                   |
| WLAN 6GHz U-NII 5  | 20.00                          | 13.50             | 6.5                   |
| WLAN 6GHz U-NII 6  | 19.00                          | 13.50             | 5.5                   |
| WLAN 6GHz U-NII 7  | 20.00                          | 13.50             | 6.5                   |
| WLAN 6GHz U-NII 8  | 19.00                          | 14.00             | 5.0                   |







## **6. RF Exposure Limits**

### **6.1 Uncontrolled Environment**

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

### **6.2 Controlled Environment**

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

**Limits for Occupational/Controlled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.4        | 8.0          | 20.0                           |

**Limits for General Population/Uncontrolled Exposure (W/kg)**

| Whole-Body | Partial-Body | Hands, Wrists, Feet and Ankles |
|------------|--------------|--------------------------------|
| 0.08       | 1.6          | 4.0                            |

Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

### 6.3 RF Exposure limit for above 6GHz

According to ANSI/IEEE C95.1-1992, the criteria listed in Table 1 shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310. The unit of power density evaluation is W/m<sup>2</sup> or mW/cm<sup>2</sup>.

Peak Spatially Averaged Power Density was evaluated over a square area of 4cm<sup>2</sup> per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes

| Frequency range (MHz)                                          | Electric field strength (V/m) | Magnetic field strength (A/m) | Power density (mW/cm <sup>2</sup> ) | Averaging time (minutes) |
|----------------------------------------------------------------|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| <b>(A) Limits for Occupational/Controlled Exposures</b>        |                               |                               |                                     |                          |
| 0.3-3.0                                                        | 614                           | 1.63                          | *(100)                              | 6                        |
| 3.0-30                                                         | 1842/f                        | 4.89/f                        | *(900/f <sup>2</sup> )              | 6                        |
| 30-300                                                         | 61.4                          | 0.163                         | 1.0                                 | 6                        |
| 300-1500                                                       |                               |                               | f/300                               | 6                        |
| 1500-100,000                                                   |                               |                               | 5                                   | 6                        |
| <b>(B) Limits for General Population/Uncontrolled Exposure</b> |                               |                               |                                     |                          |
| 0.3-1.34                                                       | 614                           | 1.63                          | *(100)                              | 30                       |
| 1.34-30                                                        | 824/f                         | 2.19/f                        | *(180/f <sup>2</sup> )              | 30                       |
| 30-300                                                         | 27.5                          | 0.073                         | 0.2                                 | 30                       |
| 300-1500                                                       |                               |                               | f/1500                              | 30                       |
| 1500-100,000                                                   |                               |                               | 1.0                                 | 30                       |

Note: 1.0 mW/cm<sup>2</sup> is 10 W/m<sup>2</sup>

## **7. Specific Absorption Rate (SAR)**

### **7.1 Introduction**

SAR is related to the rate at which energy is absorbed per unit mass in an object exposed to a radio field. The SAR distribution in a biological body is complicated and is usually carried out by experimental techniques or numerical modeling. The standard recommends limits for two tiers of groups, occupational/controlled and general population/uncontrolled, based on a person's awareness and ability to exercise control over his or her exposure. In general, occupational/controlled exposure limits are higher than the limits for general population/uncontrolled.

### **7.2 SAR Definition**

The SAR definition is the time derivative (rate) of the incremental energy (dW) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dv) of a given density ( $\rho$ ). The equation description is as below:

$$SAR = \frac{d}{dt} \left( \frac{dW}{dm} \right) = \frac{d}{dt} \left( \frac{dW}{\rho dv} \right)$$

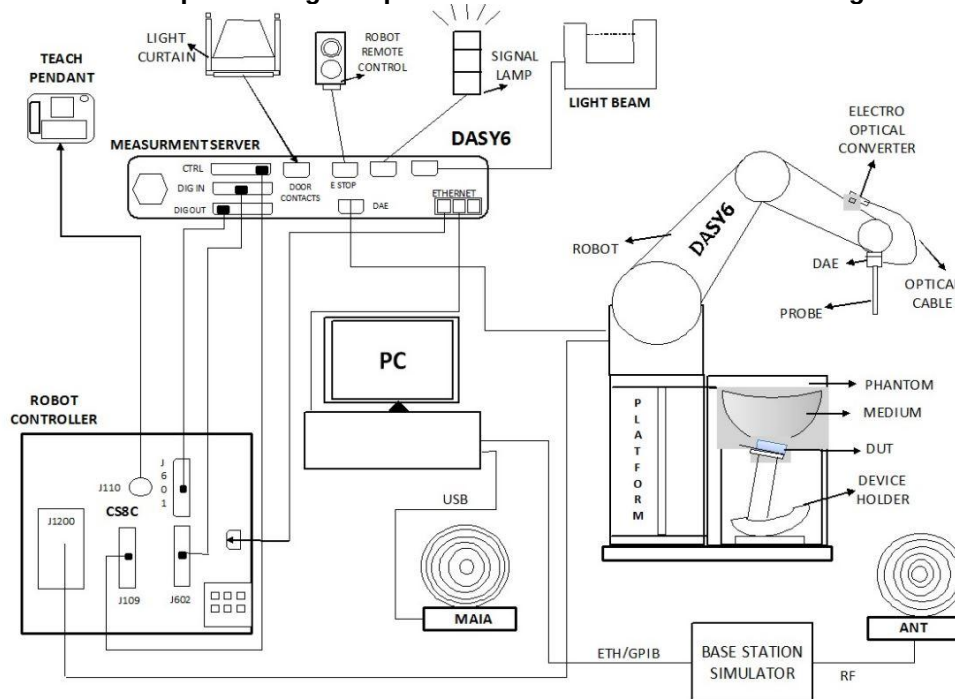
SAR is expressed in units of Watts per kilogram (W/kg)

$$SAR = \frac{\sigma |E|^2}{\rho}$$

Where:  $\sigma$  is the conductivity of the tissue,  $\rho$  is the mass density of the tissue and E is the RMS electrical field strength.

## 8. System Description and Setup

The DASY system used for performing compliance tests consists of the following items:



- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic Field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Win7 or Win10 and the DASY5 or DASY6/8 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

Note: 1. DASY6 software used: DASY6 mmWave V3.0.0.841 and older generations and used the developed Plane-to-Plane Phase Reconstruction (PTP-PR) Algorithm which was used in PD measurement.

## 8.1 E-Field Probe

The SAR measurement is conducted with the dosimetric probe (manufactured by SPEAG). The probe is specially designed and calibrated for use in liquid with high permittivity. The dosimetric probe has special calibration in liquid at different frequency. This probe has a built in optical surface detection system to prevent from collision with phantom.

### <EX3DV4 Probe>

|                      |                                                                                                                                                           |                                                                                    |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>Construction</b>  | Symmetric design with triangular core<br>Built-in shielding against static charges<br>PEEK enclosure material (resistant to organic solvents, e.g., DGBE) |  |
| <b>Frequency</b>     | 4 MHz – 10 GHz<br>Linearity: $\pm 0.2$ dB (30 MHz – 10 GHz)                                                                                               |                                                                                    |
| <b>Directivity</b>   | $\pm 0.3$ dB in TSL (rotation around probe axis)<br>$\pm 0.5$ dB in TSL (rotation normal to probe axis)                                                   |                                                                                    |
| <b>Dynamic Range</b> | 10 $\mu$ W/g – >100 mW/g<br>Linearity: $\pm 0.2$ dB (noise: typically <1 $\mu$ W/g)                                                                       |                                                                                    |
| <b>Dimensions</b>    | Overall length: 337 mm (tip: 20 mm)<br>Tip diameter: 2.5 mm (body: 12 mm)<br>Typical distance from probe tip to dipole centers: 1 mm                      |                                                                                    |

## 8.2 Data Acquisition Electronics (DAE)

The data acquisition electronics (DAE) consists of a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16 bit AD-converter and a command decoder and control logic unit. Transmission to the measurement server is accomplished through an optical downlink for data and status information as well as an optical uplink for commands and the clock.

The input impedance of the DAE is 200 MOhm; the inputs are symmetrical and floating. Common mode rejection is above 80 dB.



**Photo of DAE**

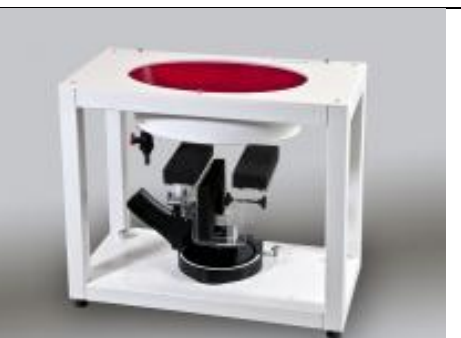
### 8.3 Phantom

#### <SAM Twin Phantom>

|                   |                                                         |                                                                                    |
|-------------------|---------------------------------------------------------|------------------------------------------------------------------------------------|
| Shell Thickness   | 2 ± 0.2 mm;<br>Center ear point: 6 ± 0.2 mm             |  |
| Filling Volume    | Approx. 25 liters                                       |                                                                                    |
| Dimensions        | Length: 1000 mm; Width: 500 mm; Height: adjustable feet |                                                                                    |
| Measurement Areas | Left Hand, Right Hand, Flat Phantom                     |                                                                                    |

The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections. A white cover is provided to tap the phantom during off-periods to prevent water evaporation and changes in the liquid parameters. On the phantom top, three reference markers are provided to identify the phantom position with respect to the robot.

#### <ELI Phantom>

|                 |                                                  |                                                                                     |
|-----------------|--------------------------------------------------|-------------------------------------------------------------------------------------|
| Shell Thickness | 2 ± 0.2 mm (sagging: <1%)                        |  |
| Filling Volume  | Approx. 30 liters                                |                                                                                     |
| Dimensions      | Major ellipse axis: 600 mm<br>Minor axis: 400 mm |                                                                                     |

The ELI phantom is intended for compliance testing of handheld and body-mounted wireless devices or for evaluating transmitters operating at low frequencies. ELI is fully compatible with standard and all known tissue simulating liquids.

## 8.4 Device Holder

### <Mounting Device for Hand-Held Transmitter>

In combination with the Twin SAM V5.0/V5.0c or ELI phantoms, the Mounting Device for Hand-Held Transmitters enables rotation of the mounted transmitter device to specified spherical coordinates. At the heads, the rotation axis is at the ear opening. Transmitter devices can be easily and accurately positioned according to IEC 62209-1, IEEE 1528, FCC, or other specifications. The device holder can be locked for positioning at different phantom sections (left head, right head, flat). And upgrade kit to Mounting Device to enable easy mounting of wider devices like big smart-phones, e-books, small tablets, etc. It holds devices with width up to 140 mm.



Mounting Device for Hand-Held Transmitters



Mounting Device Adaptor for Wide-Phones

### <Mounting Device for Laptops and other Body-Worn Transmitters>

The extension is lightweight and made of POM, acrylic glass and foam. It fits easily on the upper part of the mounting device in place of the phone positioned. The extension is fully compatible with the SAM Twin and ELI phantoms.



Mounting Device for Laptops

## 9. Measurement Procedures

The measurement procedures are as follows:

### <Conducted power measurement>

- (a) For WWAN power measurement, use base station simulator to configure EUT WWAN transmission in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
- (b) Read the WWAN RF power level from the base station simulator.
- (c) For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band
- (d) Connect EUT RF port through RF cable to the power meter, and measure WLAN/BT output power

### <SAR measurement>

- (a) Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
- (b) Place the EUT in the positions as Appendix D demonstrates.
- (c) Set scan area, grid size and other setting on the DASY software.
- (d) Measure SAR results for the highest power channel on each testing position.
- (e) Find out the largest SAR result on these testing positions of each band
- (f) Measure SAR results for other channels in worst SAR testing position if the reported SAR of highest power channel is larger than 0.8 W/kg

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

- (a) Power reference measurement
- (b) Area scan
- (c) Zoom scan
- (d) Power drift measurement

### 9.1 Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The DASY software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a "cube" measurement. The measured volume must include the 1g and 10g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for the 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:

- (a) Extraction of the measured data (grid and values) from the Zoom Scan
- (b) Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters)
- (c) Generation of a high-resolution mesh within the measured volume
- (d) Interpolation of all measured values from the measurement grid to the high-resolution grid
- (e) Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface
- (f) Calculation of the averaged SAR within masses of 1g and 10g

## 9.2 Power Reference Measurement

The Power Reference Measurement and Power Drift Measurements are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties.

## 9.3 Area Scan

The area scan is used as a fast scan in two dimensions to find the area of high field values, before doing a fine measurement around the hot spot. The sophisticated interpolation routines implemented in DASY software can find the maximum found in the scanned area, within a range of the global maximum. The range (in dB0) is specified in the standards for compliance testing. For example, a 2 dB range is required in IEEE standard 1528 and IEC 62209 standards, whereby 3 dB is a requirement when compliance is assessed in accordance with the ARIB standard (Japan), if only one zoom scan follows the area scan, then only the absolute maximum will be taken as reference. For cases where multiple maximums are detected, the number of zoom scans has to be increased accordingly.

Area scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                        | $\leq 3$ GHz                                                                                                                                                                                                                                                           | $> 3$ GHz                                              |
|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|
| Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface | $5 \pm 1$ mm                                                                                                                                                                                                                                                           | $\frac{1}{2} \cdot \delta \cdot \ln(2) \pm 0.5$ mm     |
| Maximum probe angle from probe axis to phantom surface normal at the measurement location              | $30^\circ \pm 1^\circ$                                                                                                                                                                                                                                                 | $20^\circ \pm 1^\circ$                                 |
| Maximum area scan spatial resolution: $\Delta x_{Area}$ , $\Delta y_{Area}$                            | $\leq 2$ GHz: $\leq 15$ mm<br>$2 - 3$ GHz: $\leq 12$ mm                                                                                                                                                                                                                | $3 - 4$ GHz: $\leq 12$ mm<br>$4 - 6$ GHz: $\leq 10$ mm |
|                                                                                                        | When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be $\leq$ the corresponding x or y dimension of the test device with at least one measurement point on the test device. |                                                        |

## 9.4 Zoom Scan

Zoom scans are used to assess the peak spatial SAR values within a cubic averaging volume containing 1 gram and 10 gram of simulated tissue. The zoom scan measures points (refer to table below) within a cube whose base faces are centered on the maxima found in a preceding area scan job within the same procedure. When the measurement is done, the zoom scan evaluates the averaged SAR for 1 gram and 10 gram and displays these values next to the job's label.

Zoom scan parameters extracted from FCC KDB 865664 D01v01r04 SAR measurement 100 MHz to 6 GHz.

|                                                                                                                                                                                                                                                                                                             |                                           |                                                                                             | $\leq 3$ GHz                                         | $> 3$ GHz                                                                     |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------------|-------------------------------------------------------------------------------|
| Maximum zoom scan spatial resolution: $\Delta x_{\text{Zoom}}, \Delta y_{\text{Zoom}}$                                                                                                                                                                                                                      |                                           |                                                                                             | $\leq 2$ GHz: $\leq 8$ mm<br>2 – 3 GHz: $\leq 5$ mm* | 3 – 4 GHz: $\leq 5$ mm*<br>4 – 6 GHz: $\leq 4$ mm*                            |
| Maximum zoom scan spatial resolution, normal to phantom surface                                                                                                                                                                                                                                             | uniform grid: $\Delta z_{\text{Zoom}}(n)$ |                                                                                             | $\leq 5$ mm                                          | 3 – 4 GHz: $\leq 4$ mm<br>4 – 5 GHz: $\leq 3$ mm<br>5 – 6 GHz: $\leq 2$ mm    |
|                                                                                                                                                                                                                                                                                                             | graded grid                               | $\Delta z_{\text{Zoom}}(1)$ : between 1 <sup>st</sup> two points closest to phantom surface | $\leq 4$ mm                                          | 3 – 4 GHz: $\leq 3$ mm<br>4 – 5 GHz: $\leq 2.5$ mm<br>5 – 6 GHz: $\leq 2$ mm  |
|                                                                                                                                                                                                                                                                                                             |                                           | $\Delta z_{\text{Zoom}}(n>1)$ : between subsequent points                                   | $\leq 1.5 \cdot \Delta z_{\text{Zoom}}(n-1)$         |                                                                               |
| Minimum zoom scan volume                                                                                                                                                                                                                                                                                    | x, y, z                                   |                                                                                             | $\geq 30$ mm                                         | 3 – 4 GHz: $\geq 28$ mm<br>4 – 5 GHz: $\geq 25$ mm<br>5 – 6 GHz: $\geq 22$ mm |
| Note: $\delta$ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see draft standard IEEE P1528-2011 for details.                                                                                                                                                           |                                           |                                                                                             |                                                      |                                                                               |
| * When zoom scan is required and the <i>reported</i> SAR from the <i>area scan based 1-g SAR estimation</i> procedures of KDB 447498 is $\leq 1.4$ W/kg, $\leq 8$ mm, $\leq 7$ mm and $\leq 5$ mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz. |                                           |                                                                                             |                                                      |                                                                               |

## 9.5 Volume Scan Procedures

The volume scan is used to assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD postprocessor can combine and subsequently superpose these measurement data to calculating the multiband SAR.

## 9.6 Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In DASY measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

**10. Test Equipment List**

| Manufacturer    | Name of Equipment             | Type/Model  | Serial Number | Last Cal.     | Due Date      |
|-----------------|-------------------------------|-------------|---------------|---------------|---------------|
| SPEAG           | 2450MHz System Validation Kit | D2450V2     | 1095          | Feb. 08, 2024 | Feb. 06, 2026 |
| SPEAG           | 5000MHz System Validation Kit | D5GHzV2     | 1113          | Sep. 23, 2022 | Sep. 21, 2025 |
| SPEAG           | 6500MHz System Validation Kit | D6.5GHzV2   | 1026          | Jan. 28, 2025 | Jan. 27, 2026 |
| SPEAG           | 5G Verification Source        | 10GHz       | 2005          | Dec. 04, 2024 | Dec. 03, 2025 |
| SPEAG           | Data Acquisition Electronics  | DAE4        | 1650          | Nov. 25, 2024 | Nov. 24, 2025 |
| SPEAG           | Data Acquisition Electronics  | DAE4        | 1338          | Mar. 18, 2025 | Mar. 17, 2026 |
| SPEAG           | Data Acquisition Electronics  | DAE4        | 1691          | Jun. 04, 2025 | Jun. 03, 2026 |
| SPEAG           | Dosimetric E-Field Probe      | EX3DV4      | 7627          | Jul. 01, 2025 | Jun. 30, 2026 |
| SPEAG           | Dosimetric E-Field Probe      | EX3DV4      | 7706          | May 22, 2025  | May 21, 2026  |
| SPEAG           | Dosimetric E-Field Probe      | EX3DV4      | 7630          | Aug. 22, 2024 | Aug. 21, 2025 |
| SPEAG           | EUmmWV Probe Tip Protection   | EUmmWV4     | 9553          | Nov. 15, 2025 | Nov. 14, 2026 |
| SPEAG           | ELI Phantom                   | ELI V8.0    | TP-2135       | NCR           | NCR           |
| SPEAG           | mmWave Phantom                | mmWave      | 1065          | NCR           | NCR           |
| Agilent         | ENA Series Network Analyzer   | E5071C      | MY46112129    | Jul. 02, 2025 | Jul. 01, 2026 |
| Beichuang       | Thermo-Hygrometer             | HTC-1       | 1959630       | May 27, 2025  | May 26, 2026  |
| Beichuang       | Thermo-Hygrometer             | HTC-1       | 1949251       | Jan. 11, 2025 | Jan. 10, 2026 |
| Testo           | Thermo-Hygrometer             | HTC-1       | 55009         | Jan. 02, 2025 | Jan. 01, 2026 |
| SPEAG           | Phone Positioner              | N/A         | N/A           | NCR           | NCR           |
| Rohde & Schwarz | Signal Generator              | SMB100A     | 100455        | Jan. 02, 2025 | Jan. 01, 2026 |
| Keysight        | Preamplifier                  | 83017A      | MY57280106    | Apr. 18, 2025 | Apr. 17, 2026 |
| Agilent         | ENA Series Network Analyzer   | E5071C      | MY46112129    | Jul. 02, 2025 | Jul. 01, 2026 |
| SPEAG           | Dielectric Probe Kit          | DAK-3.5     | 1071          | Feb. 24, 2025 | Feb. 23, 2026 |
| Anritsu         | Vector Signal Generator       | MG3710A     | 6201682672    | Jan. 03, 2025 | Jan. 02, 2026 |
| R&S             | BLUETOOTH TESTER              | CBT         | 101246        | Jul. 03, 2025 | Jul. 02, 2026 |
| Rohde & Schwarz | Spectrum Analyzer             | FSV7        | 101631        | Oct. 11, 2024 | Oct. 10, 2025 |
| TES             | DIGITAC THERMOMETER           | TYPE-K      | 220305411     | Jan. 02, 2025 | Jan. 01, 2026 |
| Rohde & Schwarz | Power Meter                   | NRVD        | 102081        | Jul. 02, 2025 | Jul. 01, 2026 |
| Rohde & Schwarz | Power Sensor                  | NRV-Z5      | 100538        | Jul. 02, 2025 | Jul. 01, 2026 |
| Rohde & Schwarz | Power Sensor                  | NRV-Z5      | 100539        | Jul. 02, 2025 | Jul. 01, 2026 |
| Rohde & Schwarz | Power Sensor                  | NRP50S      | 101385        | Oct. 15, 2024 | Oct. 14, 2025 |
| ARRA            | Power Divider                 | A3200-2     | N/A           | Note 1        |               |
| MCL             | Attenuation1                  | BW-S10W5+   | N/A           | Note 1        |               |
| BONN            | POWER AMPLIFIER               | BLMA 0830-3 | 087193A       | Note 1        |               |
| BONN            | POWER AMPLIFIER               | BLMA 2060-2 | 087193B       | Note 1        |               |
| Agilent         | Dual Directional Coupler      | 778D        | 20500         | Note 1        |               |
| Agilent         | Dual Directional Coupler      | 11691D      | MY48151020    | Note 1        |               |

**Note:**

1. Prior to system verification and validation, the path loss from the signal generator to the system check source and the power meter, which includes the amplifier, cable, attenuator and directional coupler, was measured by the network analyzer. The reading of the power meter was offset by the path loss difference between the path to the power meter and the path to the system check source to monitor the actual power level fed to the system check source.
2. The dipole calibration interval can be extended to 3 years with justification according to KDB 865664 D01. The dipoles are also not physically damaged, or repaired during the interval. The justification data in appendix C can be found which the return loss is < -20dB, within 20% of prior calibration, the impedance is within 5 ohm of prior calibration for each dipole.

## **11. System Verification**

### ***11.1 Tissue Simulating Liquids***

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with around 25 liters of homogeneous body tissue simulating liquid. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15 cm, which is shown in Fig. 10.1.



**Fig 10.1 Photo of Liquid Height for Body SAR**

## 11.2 Tissue Verification

The following tissue formulations are provided for reference only as some of the parameters have not been thoroughly verified. The composition of ingredients may be modified accordingly to achieve the desired target tissue parameters required for routine SAR evaluation.

| Frequency (MHz) | Water (%) | Sugar (%) | Cellulose (%) | Salt (%) | Preventol (%) | DGBE (%) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) |
|-----------------|-----------|-----------|---------------|----------|---------------|----------|---------------------------|-------------------------------|
| For Head        |           |           |               |          |               |          |                           |                               |
| 2450            | 55.0      | 0         | 0             | 0        | 0             | 45.0     | 1.80                      | 39.2                          |

### Simulating Liquid for 5GHz, Manufactured by SPEAG

| Ingredients        | (% by weight) |
|--------------------|---------------|
| Water              | 64~78%        |
| Mineral oil        | 11~18%        |
| Emulsifiers        | 9~15%         |
| Additives and Salt | 2~3%          |

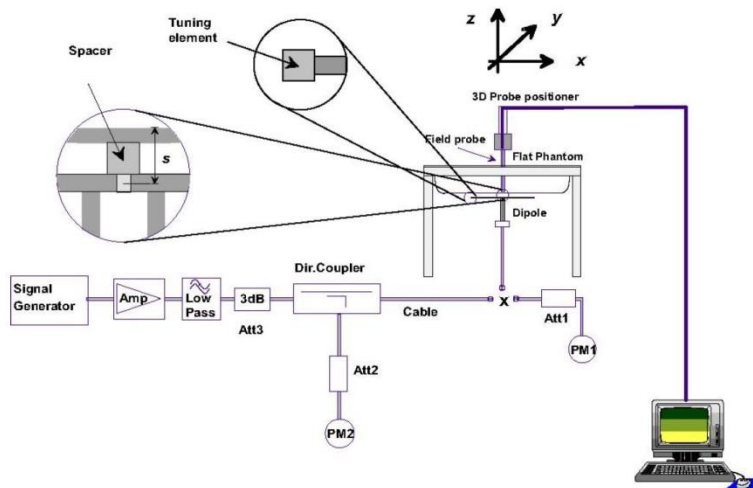
### <Tissue Dielectric Parameter Check Results>

| Frequency (MHz) | Liquid Temp (°C) | Conductivity ( $\sigma$ ) | Permittivity ( $\epsilon_r$ ) | Conductivity Target ( $\sigma$ ) | Permittivity Target ( $\epsilon_r$ ) | Delta ( $\sigma$ ) (%) | Delta ( $\epsilon_r$ ) (%) | Limit (%) | Date       |
|-----------------|------------------|---------------------------|-------------------------------|----------------------------------|--------------------------------------|------------------------|----------------------------|-----------|------------|
| 2450            | 22.8             | 1.77                      | 39.3                          | 1.8                              | 39.2                                 | -1.67                  | 0.26                       | ±5.0      | 2025/07/21 |
| 2450            | 22.6             | 1.76                      | 39.2                          | 1.8                              | 39.2                                 | -2.22                  | 0.00                       | ±5.0      | 2025/08/16 |
| 5250            | 22.5             | 4.67                      | 36.4                          | 4.71                             | 35.95                                | -0.85                  | 1.25                       | ±5.0      | 2025/07/24 |
| 5250            | 22.7             | 4.66                      | 36.5                          | 4.71                             | 35.95                                | -1.06                  | 1.53                       | ±5.0      | 2025/08/19 |
| 5600            | 22.7             | 5.02                      | 35.9                          | 5.07                             | 35.5                                 | -0.99                  | 1.13                       | ±5.0      | 2025/07/27 |
| 5600            | 22.8             | 5.06                      | 35.8                          | 5.07                             | 35.5                                 | -0.20                  | 0.85                       | ±5.0      | 2025/08/21 |
| 5750            | 22.6             | 5.13                      | 35.7                          | 5.22                             | 35.35                                | -1.72                  | 0.99                       | ±5.0      | 2025/07/29 |
| 5750            | 22.9             | 5.23                      | 35.8                          | 5.22                             | 35.35                                | 0.19                   | 1.27                       | ±5.0      | 2025/08/25 |
| 6500            | 22.6             | 6.1                       | 34.1                          | 6.07                             | 34.5                                 | 0.49                   | -1.16                      | ±5.0      | 2025/08/02 |
| 6500            | 22.9             | 6.1                       | 34.2                          | 6.07                             | 34.5                                 | 0.49                   | -0.87                      | ±5.0      | 2025/08/28 |
| 6500            | 22.5             | 6.07                      | 34.1                          | 6.07                             | 34.5                                 | 0.00                   | -1.16                      | ±5.0      | 2025/09/12 |

### 11.3 System Performance Check Results

Comparing to the original SAR value provided by SPEAG, the verification data should be within its specification of 10 %. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table below indicates the system performance check can meet the variation criterion and the plots can be referred to Appendix A of this report.

| Date       | Frequency (MHz) | Input Power (mW) | Dipole S/N       | Probe S/N       | DAE S/N     | Measured 1g SAR (W/kg) | Targeted 1g SAR (W/kg) | Normalized 1g SAR (W/kg) | Deviation (%) | Measured 10g SAR (W/kg) | Targeted 10g SAR (W/kg) | Normalized 10g SAR (W/kg) | Deviation (%) |
|------------|-----------------|------------------|------------------|-----------------|-------------|------------------------|------------------------|--------------------------|---------------|-------------------------|-------------------------|---------------------------|---------------|
| 2025/07/21 | 2450            | 50.00            | D2450V2 - 1095   | EX3DV4 - SN7630 | DAE4 Sn1650 | 2.650                  | 52.600                 | 53.000                   | 0.76          | 1.290                   | 24.700                  | 25.800                    | 4.45          |
| 2025/08/16 | 2450            | 50.00            | D2450V2 - 1095   | EX3DV4 - SN7627 | DAE4 Sn1338 | 2.620                  | 52.600                 | 52.400                   | -0.38         | 1.230                   | 24.700                  | 24.600                    | -0.40         |
| 2025/07/24 | 5250            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7630 | DAE4 Sn1650 | 3.860                  | 81.500                 | 77.200                   | -5.28         | 1.140                   | 23.300                  | 22.800                    | -2.15         |
| 2025/08/19 | 5250            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7627 | DAE4 Sn1338 | 3.850                  | 81.500                 | 77.000                   | -5.52         | 1.130                   | 23.300                  | 22.600                    | -3.00         |
| 2025/07/27 | 5600            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7630 | DAE4 Sn1650 | 4.270                  | 82.600                 | 85.400                   | 3.39          | 1.250                   | 23.700                  | 25.000                    | 5.49          |
| 2025/08/21 | 5600            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7627 | DAE4 Sn1338 | 4.310                  | 82.600                 | 86.200                   | 4.36          | 1.260                   | 23.700                  | 25.200                    | 6.33          |
| 2025/07/29 | 5750            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7630 | DAE4 Sn1650 | 3.820                  | 80.800                 | 76.400                   | -5.45         | 1.110                   | 23.000                  | 22.200                    | -3.48         |
| 2025/08/25 | 5750            | 50.00            | D5GHzV2 - 1113   | EX3DV4 - SN7627 | DAE4 Sn1338 | 3.900                  | 80.800                 | 78.000                   | -3.47         | 1.130                   | 23.000                  | 22.600                    | -1.74         |
| 2025/08/02 | 6500            | 50.00            | D6.5GHzV2 - 1026 | EX3DV4 - SN7706 | DAE4 Sn1650 | 15.200                 | 296.000                | 304.000                  | 2.70          | 2.980                   | 54.800                  | 59.600                    | 8.76          |
| 2025/08/28 | 6500            | 50.00            | D6.5GHzV2 - 1026 | EX3DV4 - SN7706 | DAE4 Sn1691 | 15.400                 | 296.000                | 308.000                  | 4.05          | 2.850                   | 54.800                  | 57.000                    | 4.01          |
| 2025/09/12 | 6500            | 50.00            | D6.5GHzV2 - 1026 | EX3DV4 - SN7706 | DAE4 Sn1650 | 15.200                 | 296.000                | 304.000                  | 2.81          | 2.810                   | 54.800                  | 56.200                    | 2.55          |



**Fig 10.3.1 System Performance Check Setup**



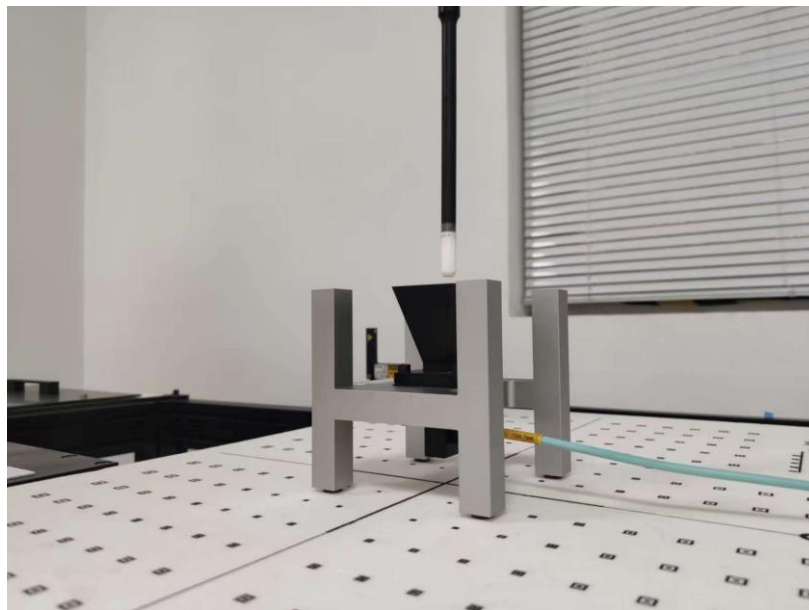
**Fig 10.3.2 Setup Photo**

### 11.4 PD System Verification Results

The system was verified to be within  $\pm 0.66$  dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check. The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

| Frequency (GHz) | 5G Verification Source | Probe S/N | DAE S/N | Distance (mm) | Input Power (mW) | Measured psPDn+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Normalized <sup>(1)</sup> psPDn+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Targeted psPDn+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Deviation (dB) | Measured psPDtot+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Normalized <sup>(1)</sup> psPDtot+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Targeted psPDtot+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Deviation (dB) | Measured psPDmod+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Normalized <sup>(1)</sup> psPDmod+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Targeted psPDmod+ 4 cm <sup>2</sup> (W/m <sup>2</sup> ) | Deviation (dB) | Date     |
|-----------------|------------------------|-----------|---------|---------------|------------------|-------------------------------------------------------|------------------------------------------------------------------------|-------------------------------------------------------|----------------|---------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------|----------------|---------------------------------------------------------|--------------------------------------------------------------------------|---------------------------------------------------------|----------------|----------|
| 10              | 10GHz_2005             | 9553      | 1650    | 10            | 100              | 99.8                                                  | 158.1                                                                  | 171                                                   | -0.34          | 100                                                     | 158.4                                                                    | 172                                                     | -0.36          | 104                                                     | 164.8                                                                    | 177                                                     | -0.31          | 2025/8/5 |

Note: (1) means the measured PD was normalized to Prad power which can be referred to DASY Calibration Certificate in appendix C.



System Verification Setup Photo

## **12. RF Exposure Positions**

### **12.1 SAR Testing for Tablet**

This device can be used also in full sized tablet exposure conditions, due to its size. Per FCC KDB 616217, the back surface and edges of the tablet should be tested for SAR compliance with the tablet touching the phantom. The SAR exclusion threshold in KDB 447498 D01v06 can be applied to determine SAR test exclusion for adjacent edge configurations. The closest distance from the antenna to an adjacent tablet edge is used to determine if SAR testing is required for the adjacent edges, with the adjacent edge positioned against the phantom and the edge containing the antenna positioned perpendicular to the phantom.

### **12.2 Miscellaneous Testing Considerations**

- Evaluate SAR using 6-7 GHz parameters per IEC/IEEE 62209-1528:2020.
- Per procedures of KDB Pubs. 447498 and 248227, and applicable product-specific procedures among KDB Pubs.
- Where supported by the test system, also report estimated absorbed (epithelial) power density (for reference purposes only, not specifically for compliance) and estimated incident PD, derived from measured SAR.
- In addition, for the highest SAR test configurations evaluate incident PD using the mmw near-field probe and total-field/power-density reconstruction method (2 mm closest meas. plane)
  - Adjust measured results per amount that measurement uncertainty exceeds 30 % (see e.g. IEC 62479:2010)

#### **<EUT Setup Photos>**

Please refer to Appendix D for the test setup photos.

### **13. Conducted RF Output Power (Unit: dBm)**

#### **<WLAN Conducted Power>**

##### **General Note:**

1. For each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
2. For each frequency band or when MIMO mode was not performed, due to for each antenna, transmit power in SISO operation is larger than (or equal to) the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode.
3. Per KDB 248227 D01v02r02, the simultaneous SAR provisions in KDB publication 447498 should be applied to determine simultaneous transmission SAR test exclusion for WiFi MIMO. If the sum of 1g single transmission chain SAR measurements is  $< 1.6\text{W/kg}$  and SAR peak to location ratio  $\leq 0.04$ , no additional SAR measurements for MIMO.
4. The maximum output power specified for production units are determined for all applicable 802.11 transmission modes in each standalone and aggregated frequency band. Maximum output power is measured for the highest maximum output power configuration(s) in each frequency band according to the default power measurement procedures. For "Not required", SAR Test reduction was applied from KDB 248227 guidance, Sec. 2.1, b), 1) when the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel in the initial test configuration. Additional output power measurements were not necessary.
5. Per KDB 248227 D01v02r02, SAR test reduction is determined according to 802.11 transmission mode configurations and certain exposure conditions with multiple test positions. In the 2.4 GHz band, separate SAR procedures are applied to DSSS and OFDM configurations to simplify DSSS test requirements. For OFDM, in both 2.4 and 5 GHz bands, an initial test configuration must be determined for each standalone and aggregated frequency band, according to the transmission mode configuration with the highest maximum output power specified for production units to perform SAR measurements. If the same highest maximum output power applies to different combinations of channel bandwidths, modulations and data rates, additional procedures are applied to determine which test configurations require SAR measurement. When applicable, an initial test position may be applied to reduce the number of SAR measurements required for next to the ear, UMPC mini-tablet or hotspot mode configurations with multiple test positions.
6. For 2.4 GHz 802.11b DSSS, either the initial test position procedure for multiple exposure test positions or the DSSS procedure for fixed exposure position is applied; these are mutually exclusive. For 2.4 GHz and 5 GHz OFDM configurations, the initial test configuration is applied to measure SAR using either the initial test position procedure for multiple exposure test position configurations or the initial test configuration procedures for fixed exposure test conditions. Based on the reported SAR of the measured configurations and maximum output power of the transmission mode configurations that are not included in the initial test configuration, the subsequent test configuration and initial test position procedures are applied to determine if SAR measurements are required for the remaining OFDM transmission configurations. In general, the number of test channels that require SAR measurement is minimized based on maximum output power measured for the test sample(s).
7. For OFDM transmission configurations in the 2.4 GHz and 5 GHz bands, When the same maximum power is specified for multiple transmission modes in a frequency band, the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order 802.11a/g/n/ac mode is used for SAR measurement, on the highest measured output power channel for each frequency band.
8. DSSS and OFDM configurations are considered separately according to the required SAR procedures. SAR is measured in the initial test position using the 802.11 transmission mode configuration required by the DSSS procedure or initial test position configuration and subsequent test configuration(s) according to the OFDM procedures.18 The initial test position procedure is described in the following:
  - a. When the reported SAR of the initial test position is  $\leq 0.4\text{ W/kg}$ , further SAR measurement is not required for the other test positions in that exposure configuration and 802.11 transmission mode combinations within the frequency band or aggregated band.
  - b. When the reported SAR of the test position is  $> 0.4\text{ W/kg}$ , SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8\text{ W/kg}$  or all required test position are tested.
  - c. For all positions/configurations, when the reported SAR is  $> 0.8\text{ W/kg}$ , SAR is measured for these test positions/configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2\text{ W/kg}$  or all required channels are tested.
9. Per April 2019 TCB workshops, General principles of FCC KDB Publication 248227 D01 can be applied to determine the SAR Initial Test Configurations and test reduction for 802.11ax SAR testing. For the table below the 802.11ax maximum power is SU (non-OFDMA), and the SU maximum power also higher than RU (OFDMA)



10. In applying the test guidance, the IEEE 802.11 mode with the maximum output power (out of all modes) should be considered for testing
11. For modes with the same maximum output power, the guidance from section 5.3.2 a) of FCC KDB Publication 248227 D01 should be applied, with 802.11ax being considered as the highest 802.11 mode for the appropriate frequency bands
12. When SAR testing for 802.11ax is required
  - a. If the maximum output power is highest for OFDMA scenarios, choose the tone size with the maximum number of tones and the highest maximum output power
  - b. Otherwise, consider the fully allocated channel for SAR testing
  - c. When SAR testing is required on RU sizes less than the fully allocated channel, use the RU number closest to the middle of the channel, choosing the higher RU number when two RUs are equidistant to the middle of the channel
13. 802.11 ax/be supports both full tone size mode and partial tone size mode, after verification on partial tone size mode that partial size tone mode power will not be higher than full tone size mode, therefore, full tone mode power was chosen to be measured in this report.
14. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode.
15. For the conducted power measurement is MIMO chains transmitting simultaneously and measured the separately conducted power for both chains and then based on the conducted power of two antennas respectively to calculate sum of the power for MIMO mode.
16. The device supports WLAN 2.4GHz/5GHz Tx Beamforming mode for 11ax/be, and the Tx Beamforming power/EIRP is not greater than CDD mode, so conducted power of CDD mode can represent Tx Beamforming mode.
17. For WLAN6GHz SISO & MIMO(CDD) & MIMO(SDM) & TX Beamforming mode of 802.11ax, follow the steps below:
  - 1) For Standard Client, due to WLAN SISO & TX Beamforming mode power level is not greater than WLAN MIMO(SDM) & MIMO(CDD) mode, so conducted power of WLAN SISO & Tx Beamforming mode is not required.
  - 2) For Indoor Client, due to WLAN SISO & MIMO(CDD) & TX Beamforming mode power level is not greater than WLAN MIMO(SDM) mode, so conducted power of WLAN SISO & MIMO(CDD) & Tx Beamforming mode is not required.

**【2.4GHz WLAN\_Ant 6\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 20.16               | 20.50         | 97.03        |
|                     | 6       | 2437            | 20.45               | 20.50         |              |
|                     | 11      | 2462            | 19.29               | 19.50         |              |
| 802.11g 6Mbps       | 1       | 2412            | 17.95               | 18.00         | 99.04        |
|                     | 6       | 2437            | 20.08               | 20.50         |              |
|                     | 11      | 2462            | 17.42               | 17.50         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 17.80               | 18.00         | 100.00       |
|                     | 6       | 2437            | 19.87               | 20.00         |              |
|                     | 11      | 2462            | 17.21               | 17.50         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 17.85               | 18.00         | 100.00       |
|                     | 6       | 2437            | 19.91               | 20.00         |              |
|                     | 11      | 2462            | 17.24               | 17.50         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 17.89               | 18.00         | 100.00       |
|                     | 6       | 2437            | 19.98               | 20.00         |              |
|                     | 11      | 2462            | 17.29               | 17.50         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 17.94               | 18.00         | 100.00       |
|                     | 6       | 2437            | 20.02               | 20.50         |              |
|                     | 11      | 2462            | 17.32               | 17.50         |              |

**【2.4GHz WLAN\_Ant 6\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 13.62               | 14.00         | 97.03        |
|                     | 6       | 2437            | 13.71               | 14.00         |              |
|                     | 11      | 2462            | 13.61               | 14.00         |              |
| 802.11g 6Mbps       | 1       | 2412            | 13.78               | 14.00         | 99.04        |
|                     | 6       | 2437            | 13.70               | 14.00         |              |
|                     | 11      | 2462            | 13.58               | 14.00         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 13.79               | 14.00         | 100.00       |
|                     | 6       | 2437            | 13.62               | 14.00         |              |
|                     | 11      | 2462            | 13.50               | 14.00         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 13.74               | 14.00         | 100.00       |
|                     | 6       | 2437            | 13.72               | 14.00         |              |
|                     | 11      | 2462            | 13.61               | 14.00         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 13.76               | 14.00         | 100.00       |
|                     | 6       | 2437            | 13.72               | 14.00         |              |
|                     | 11      | 2462            | 13.66               | 14.00         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 13.71               | 14.00         | 100.00       |
|                     | 6       | 2437            | 13.81               | 14.00         |              |
|                     | 11      | 2462            | 13.69               | 14.00         |              |

**【2.4GHz WLAN\_Ant 6\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 12.26               | 12.50         | 97.03        |
|                     | 6       | 2437            | 12.29               | 12.50         |              |
|                     | 11      | 2462            | 12.13               | 12.50         |              |
| 802.11g 6Mbps       | 1       | 2412            | 12.32               | 12.50         | 100.00       |
|                     | 6       | 2437            | 12.38               | 12.50         |              |
|                     | 11      | 2462            | 12.22               | 12.50         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 12.31               | 12.50         | 100.00       |
|                     | 6       | 2437            | 12.16               | 12.50         |              |
|                     | 11      | 2462            | 12.12               | 12.50         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 12.38               | 12.50         | 100.00       |
|                     | 6       | 2437            | 12.24               | 12.50         |              |
|                     | 11      | 2462            | 12.21               | 12.50         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 12.30               | 12.50         | 100.00       |
|                     | 6       | 2437            | 12.36               | 12.50         |              |
|                     | 11      | 2462            | 12.26               | 12.50         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 12.32               | 12.50         | 100.00       |
|                     | 6       | 2437            | 12.31               | 12.50         |              |
|                     | 11      | 2462            | 12.29               | 12.50         |              |

**【2.4GHz WLAN\_Ant 7\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 20.22               | 20.50         | 97.03        |
|                     | 6       | 2437            | 20.42               | 20.50         |              |
|                     | 11      | 2462            | 19.44               | 19.50         |              |
| 802.11g 6Mbps       | 1       | 2412            | 17.97               | 18.00         | 99.04        |
|                     | 6       | 2437            | 20.27               | 20.50         |              |
|                     | 11      | 2462            | 17.76               | 18.00         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 17.90               | 18.00         | 100.00       |
|                     | 6       | 2437            | 20.21               | 20.50         |              |
|                     | 11      | 2462            | 17.60               | 18.00         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 17.95               | 18.00         | 100.00       |
|                     | 6       | 2437            | 20.25               | 20.50         |              |
|                     | 11      | 2462            | 17.64               | 18.00         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 17.98               | 18.00         | 100.00       |
|                     | 6       | 2437            | 20.32               | 20.50         |              |
|                     | 11      | 2462            | 17.70               | 18.00         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 18.02               | 18.50         | 100.00       |
|                     | 6       | 2437            | 20.34               | 20.50         |              |
|                     | 11      | 2462            | 17.73               | 18.00         |              |

**【2.4GHz WLAN\_Ant 7\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 17.66               | 18.00         | 97.03        |
|                     | 6       | 2437            | 17.89               | 18.00         |              |
|                     | 11      | 2462            | 17.71               | 18.00         |              |
| 802.11g 6Mbps       | 1       | 2412            | 17.86               | 18.00         | 99.04        |
|                     | 6       | 2437            | 17.74               | 18.00         |              |
|                     | 11      | 2462            | 17.72               | 18.00         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 17.83               | 18.00         | 100.00       |
|                     | 6       | 2437            | 17.66               | 18.00         |              |
|                     | 11      | 2462            | 17.54               | 18.00         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 17.81               | 18.00         | 100.00       |
|                     | 6       | 2437            | 17.84               | 18.00         |              |
|                     | 11      | 2462            | 17.73               | 18.00         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 17.86               | 18.00         | 100.00       |
|                     | 6       | 2437            | 17.86               | 18.00         |              |
|                     | 11      | 2462            | 17.77               | 18.00         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 17.88               | 18.00         | 100.00       |
|                     | 6       | 2437            | 17.87               | 18.00         |              |
|                     | 11      | 2462            | 17.79               | 18.00         |              |

**【2.4GHz WLAN\_Ant 7\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 15.72               | 16.00         | 97.03        |
|                     | 6       | 2437            | 15.85               | 16.00         |              |
|                     | 11      | 2462            | 15.75               | 16.00         |              |
| 802.11g 6Mbps       | 1       | 2412            | 15.88               | 16.00         | 100.00       |
|                     | 6       | 2437            | 15.76               | 16.00         |              |
|                     | 11      | 2462            | 15.68               | 16.00         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 15.82               | 16.00         | 100.00       |
|                     | 6       | 2437            | 15.64               | 16.00         |              |
|                     | 11      | 2462            | 15.68               | 16.00         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 15.88               | 16.00         | 100.00       |
|                     | 6       | 2437            | 15.82               | 16.00         |              |
|                     | 11      | 2462            | 15.77               | 16.00         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 15.80               | 16.00         | 100.00       |
|                     | 6       | 2437            | 15.84               | 16.00         |              |
|                     | 11      | 2462            | 15.79               | 16.00         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 15.82               | 16.00         | 100.00       |
|                     | 6       | 2437            | 15.87               | 16.00         |              |
|                     | 11      | 2462            | 15.82               | 16.00         |              |

**【2.4GHz WLAN\_Ant 6+7\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11b 1Mbps       | 1       | 2412            | 23.20               | 23.50         | 97.03        |
|                     | 6       | 2437            | 26.13               | 26.30         |              |
|                     | 11      | 2462            | 22.38               | 22.50         |              |
| 802.11g 6Mbps       | 1       | 2412            | 20.97               | 21.00         | 99.04        |
|                     | 6       | 2437            | 23.19               | 23.50         |              |
|                     | 11      | 2462            | 20.61               | 20.80         |              |
| 802.11n-HT20 MCS0   | 1       | 2412            | 20.86               | 21.00         | 100.00       |
|                     | 6       | 2437            | 23.05               | 23.30         |              |
|                     | 11      | 2462            | 20.42               | 20.80         |              |
| 802.11ac-VHT20 MCS0 | 1       | 2412            | 20.91               | 21.00         | 100.00       |
|                     | 6       | 2437            | 23.09               | 23.30         |              |
|                     | 11      | 2462            | 20.45               | 20.80         |              |
| 802.11ax-HE20 MCS0  | 1       | 2412            | 20.95               | 21.00         | 100.00       |
|                     | 6       | 2437            | 23.16               | 23.30         |              |
|                     | 11      | 2462            | 20.51               | 20.80         |              |
| 802.11be-EHT20 MCS0 | 1       | 2412            | 20.99               | 21.30         | 100.00       |
|                     | 6       | 2437            | 23.19               | 23.50         |              |
|                     | 11      | 2462            | 20.54               | 20.80         |              |

**【2.4GHz WLAN\_Ant 6+7\_Standalone】**

| Mode                | Channel | Frequency<br>(MHz) | Ant 6+7                   |                  |                 |
|---------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                     |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11b 1Mbps       | 1       | 2412               | 19.10                     | 19.50            | 97.03           |
|                     | 6       | 2437               | 19.29                     | 19.50            |                 |
|                     | 11      | 2462               | 19.14                     | 19.50            |                 |
| 802.11g 6Mbps       | 1       | 2412               | 19.29                     | 19.50            | 99.04           |
|                     | 6       | 2437               | 19.18                     | 19.50            |                 |
|                     | 11      | 2462               | 19.14                     | 19.50            |                 |
| 802.11n-HT20 MCS0   | 1       | 2412               | 19.27                     | 19.50            | 100.00          |
|                     | 6       | 2437               | 19.10                     | 19.50            |                 |
|                     | 11      | 2462               | 18.98                     | 19.50            |                 |
| 802.11ac-VHT20 MCS0 | 1       | 2412               | 19.25                     | 19.50            | 100.00          |
|                     | 6       | 2437               | 19.26                     | 19.50            |                 |
|                     | 11      | 2462               | 19.15                     | 19.50            |                 |
| 802.11ax-HE20 MCS0  | 1       | 2412               | 19.29                     | 19.50            | 100.00          |
|                     | 6       | 2437               | 19.28                     | 19.50            |                 |
|                     | 11      | 2462               | 19.19                     | 19.50            |                 |
| 802.11be-EHT20 MCS0 | 1       | 2412               | 19.29                     | 19.50            | 100.00          |
|                     | 6       | 2437               | 19.31                     | 19.50            |                 |
|                     | 11      | 2462               | 19.22                     | 19.50            |                 |

**【2.4GHz WLAN\_Ant 6+7\_Simultaneous】**

| Mode                | Channel | Frequency<br>(MHz) | Ant 6+7                   |                  |                 |
|---------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                     |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11b 1Mbps       | 1       | 2412               | 17.34                     | 17.60            | 97.03           |
|                     | 6       | 2437               | 17.44                     | 17.60            |                 |
|                     | 11      | 2462               | 17.32                     | 17.60            |                 |
| 802.11g 6Mbps       | 1       | 2412               | 17.47                     | 17.60            | 100.00          |
|                     | 6       | 2437               | 17.40                     | 17.60            |                 |
|                     | 11      | 2462               | 17.30                     | 17.60            |                 |
| 802.11n-HT20 MCS0   | 1       | 2412               | 17.42                     | 17.60            | 100.00          |
|                     | 6       | 2437               | 17.25                     | 17.60            |                 |
|                     | 11      | 2462               | 17.27                     | 17.60            |                 |
| 802.11ac-VHT20 MCS0 | 1       | 2412               | 17.48                     | 17.60            | 100.00          |
|                     | 6       | 2437               | 17.40                     | 17.60            |                 |
|                     | 11      | 2462               | 17.36                     | 17.60            |                 |
| 802.11ax-HE20 MCS0  | 1       | 2412               | 17.40                     | 17.60            | 100.00          |
|                     | 6       | 2437               | 17.45                     | 17.60            |                 |
|                     | 11      | 2462               | 17.38                     | 17.60            |                 |
| 802.11be-EHT20 MCS0 | 1       | 2412               | 17.42                     | 17.60            | 100.00          |
|                     | 6       | 2437               | 17.46                     | 17.60            |                 |
|                     | 11      | 2462               | 17.41                     | 17.60            |                 |



【5.2GHz WLAN\_Ant 6\_Full Power】

| Mode                | Channel | Frequency<br>(MHz) | Ant 6                     |                  |                 |
|---------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                     |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps       | 36      | 5180               | 16.69                     | 17.00            | 98.97           |
|                     | 40      | 5200               | 18.73                     | 19.00            |                 |
|                     | 44      | 5220               | 18.35                     | 18.50            |                 |
|                     | 48      | 5240               | 16.50                     | 17.00            |                 |
| 802.11n-HT20 MCS0   | 36      | 5180               | 16.57                     | 17.00            | 100.00          |
|                     | 40      | 5200               | 18.42                     | 18.50            |                 |
|                     | 44      | 5220               | 18.22                     | 18.50            |                 |
|                     | 48      | 5240               | 16.36                     | 16.50            |                 |
| 802.11n-HT40 MCS0   | 38      | 5190               | 16.84                     | 17.00            | 100.00          |
|                     | 46      | 5230               | 16.64                     | 17.00            |                 |
| 802.11ac-VHT20 MCS0 | 36      | 5180               | 16.62                     | 17.00            | 100.00          |
|                     | 40      | 5200               | 18.47                     | 18.50            |                 |
|                     | 44      | 5220               | 18.27                     | 18.50            |                 |
|                     | 48      | 5240               | 16.41                     | 16.50            |                 |
| 802.11ac-VHT40 MCS0 | 38      | 5190               | 16.90                     | 17.00            | 100.00          |
|                     | 46      | 5230               | 16.70                     | 17.00            |                 |
| 802.11ac-VHT80 MCS0 | 42      | 5210               | 16.78                     | 17.00            | 100.00          |
| 802.11ax-HE20 MCS0  | 36      | 5180               | 16.64                     | 17.00            | 100.00          |
|                     | 40      | 5200               | 18.49                     | 18.50            |                 |
|                     | 44      | 5220               | 18.30                     | 18.50            |                 |
|                     | 48      | 5240               | 16.47                     | 16.50            |                 |
| 802.11ax-HE40 MCS0  | 38      | 5190               | 16.97                     | 17.00            | 100.00          |
|                     | 46      | 5230               | 16.74                     | 17.00            |                 |
| 802.11ax-HE80 MCS0  | 42      | 5210               | 16.81                     | 17.00            | 100.00          |
| 802.11be-EHT20 MCS0 | 36      | 5180               | 16.66                     | 17.00            | 100.00          |
|                     | 40      | 5200               | 18.55                     | 19.00            |                 |
|                     | 44      | 5220               | 18.36                     | 18.50            |                 |
|                     | 48      | 5240               | 16.52                     | 17.00            |                 |
| 802.11be-EHT40 MCS0 | 38      | 5190               | 16.99                     | 17.00            | 100.00          |
|                     | 46      | 5230               | 16.81                     | 17.00            |                 |
| 802.11be-EHT80 MCS0 | 42      | 5210               | 16.86                     | 17.00            | 100.00          |

**【5.2GHz WLAN\_Ant 6\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 6.54                | 7.00          | 98.97        |
|                     | 40      | 5200            | 6.62                | 7.00          |              |
|                     | 44      | 5220            | 6.51                | 7.00          |              |
|                     | 48      | 5240            | 6.61                | 7.00          |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 6.61                | 7.00          | 100.00       |
|                     | 40      | 5200            | 6.47                | 6.50          |              |
|                     | 44      | 5220            | 6.36                | 6.50          |              |
|                     | 48      | 5240            | 6.33                | 6.50          |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 6.60                | 7.00          | 100.00       |
|                     | 46      | 5230            | 6.41                | 6.50          |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 6.66                | 7.00          | 100.00       |
|                     | 40      | 5200            | 6.57                | 7.00          |              |
|                     | 44      | 5220            | 6.48                | 6.50          |              |
|                     | 48      | 5240            | 6.39                | 6.50          |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 6.62                | 7.00          | 100.00       |
|                     | 46      | 5230            | 6.43                | 6.50          |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 6.69                | 7.00          | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 6.70                | 7.00          | 100.00       |
|                     | 40      | 5200            | 6.60                | 7.00          |              |
|                     | 44      | 5220            | 6.49                | 6.50          |              |
|                     | 48      | 5240            | 6.55                | 7.00          |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 6.72                | 7.00          | 100.00       |
|                     | 46      | 5230            | 6.55                | 7.00          |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 6.41                | 6.50          | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 6.50                | 7.00          | 100.00       |
|                     | 40      | 5200            | 6.62                | 7.00          |              |
|                     | 44      | 5220            | 6.51                | 7.00          |              |
|                     | 48      | 5240            | 6.57                | 7.00          |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 6.77                | 7.00          | 100.00       |
|                     | 46      | 5230            | 6.52                | 7.00          |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 6.53                | 7.00          | 100.00       |

**【5.2GHz WLAN\_Ant 6\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 5.18                | 5.50          | 98.97        |
|                     | 40      | 5200            | 5.11                | 5.50          |              |
|                     | 44      | 5220            | 4.94                | 5.00          |              |
|                     | 48      | 5240            | 5.02                | 5.50          |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 4.96                | 5.00          | 100.00       |
|                     | 40      | 5200            | 4.87                | 5.00          |              |
|                     | 44      | 5220            | 4.79                | 5.00          |              |
|                     | 48      | 5240            | 4.62                | 5.00          |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 4.95                | 5.00          | 100.00       |
|                     | 46      | 5230            | 4.74                | 5.00          |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 5.03                | 5.50          | 100.00       |
|                     | 40      | 5200            | 4.92                | 5.00          |              |
|                     | 44      | 5220            | 4.85                | 5.00          |              |
|                     | 48      | 5240            | 4.74                | 5.00          |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 5.01                | 5.50          | 100.00       |
|                     | 46      | 5230            | 4.79                | 5.00          |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 4.68                | 5.00          | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 5.07                | 5.50          | 100.00       |
|                     | 40      | 5200            | 4.95                | 5.00          |              |
|                     | 44      | 5220            | 4.90                | 5.00          |              |
|                     | 48      | 5240            | 4.94                | 5.00          |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 5.07                | 5.50          | 100.00       |
|                     | 46      | 5230            | 4.86                | 5.00          |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 4.74                | 5.00          | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 5.27                | 5.50          | 100.00       |
|                     | 40      | 5200            | 4.97                | 5.00          |              |
|                     | 44      | 5220            | 4.92                | 5.00          |              |
|                     | 48      | 5240            | 4.96                | 5.00          |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 5.12                | 5.50          | 100.00       |
|                     | 46      | 5230            | 4.89                | 5.00          |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 4.87                | 5.00          | 100.00       |

**【5.2GHz WLAN\_Ant 7\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 16.99               | 17.00         | 99.32        |
|                     | 40      | 5200            | 19.18               | 19.50         |              |
|                     | 44      | 5220            | 19.31               | 19.50         |              |
|                     | 48      | 5240            | 17.06               | 17.50         |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 16.85               | 17.00         | 100.00       |
|                     | 40      | 5200            | 18.97               | 19.00         |              |
|                     | 44      | 5220            | 19.06               | 19.50         |              |
|                     | 48      | 5240            | 16.93               | 17.00         |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 16.85               | 17.00         | 100.00       |
|                     | 46      | 5230            | 16.92               | 17.00         |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 16.88               | 17.00         | 100.00       |
|                     | 40      | 5200            | 19.03               | 19.50         |              |
|                     | 44      | 5220            | 19.11               | 19.50         |              |
|                     | 48      | 5240            | 17.00               | 17.50         |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 16.91               | 17.00         | 100.00       |
|                     | 46      | 5230            | 16.99               | 17.00         |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 17.04               | 17.50         | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 16.90               | 17.00         | 100.00       |
|                     | 40      | 5200            | 19.06               | 19.50         |              |
|                     | 44      | 5220            | 19.13               | 19.50         |              |
|                     | 48      | 5240            | 17.07               | 17.50         |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 16.93               | 17.00         | 100.00       |
|                     | 46      | 5230            | 17.04               | 17.50         |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 17.11               | 17.50         | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 16.95               | 17.00         | 100.00       |
|                     | 40      | 5200            | 19.08               | 19.50         |              |
|                     | 44      | 5220            | 19.17               | 19.50         |              |
|                     | 48      | 5240            | 17.12               | 17.50         |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 17.01               | 17.50         | 100.00       |
|                     | 46      | 5230            | 17.09               | 17.50         |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 17.14               | 17.50         | 100.00       |

**【5.2GHz WLAN\_Ant 7\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 7.65                | 8.00          | 99.32        |
|                     | 40      | 5200            | 7.56                | 8.00          |              |
|                     | 44      | 5220            | 7.81                | 8.00          |              |
|                     | 48      | 5240            | 7.76                | 8.00          |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 7.60                | 8.00          | 100.00       |
|                     | 40      | 5200            | 7.44                | 7.50          |              |
|                     | 44      | 5220            | 7.56                | 8.00          |              |
|                     | 48      | 5240            | 7.60                | 8.00          |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 7.41                | 7.50          | 100.00       |
|                     | 46      | 5230            | 7.53                | 8.00          |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 7.65                | 8.00          | 100.00       |
|                     | 40      | 5200            | 7.54                | 8.00          |              |
|                     | 44      | 5220            | 7.60                | 8.00          |              |
|                     | 48      | 5240            | 7.61                | 8.00          |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 7.58                | 8.00          | 100.00       |
|                     | 46      | 5230            | 7.54                | 8.00          |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 7.67                | 8.00          | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 7.68                | 8.00          | 100.00       |
|                     | 40      | 5200            | 7.64                | 8.00          |              |
|                     | 44      | 5220            | 7.65                | 8.00          |              |
|                     | 48      | 5240            | 7.64                | 8.00          |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 7.66                | 8.00          | 100.00       |
|                     | 46      | 5230            | 7.69                | 8.00          |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 7.72                | 8.00          | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 7.71                | 8.00          | 100.00       |
|                     | 40      | 5200            | 7.75                | 8.00          |              |
|                     | 44      | 5220            | 7.83                | 8.00          |              |
|                     | 48      | 5240            | 7.73                | 8.00          |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 7.78                | 8.00          | 100.00       |
|                     | 46      | 5230            | 7.75                | 8.00          |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 7.74                | 8.00          | 100.00       |



## 【5.2GHz WLAN\_Ant 7\_Simultaneous】

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 5.19                | 5.50          | 99.32        |
|                     | 40      | 5200            | 5.16                | 5.50          |              |
|                     | 44      | 5220            | 5.33                | 5.50          |              |
|                     | 48      | 5240            | 5.24                | 5.50          |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 5.06                | 5.50          | 100.00       |
|                     | 40      | 5200            | 5.00                | 5.50          |              |
|                     | 44      | 5220            | 5.04                | 5.50          |              |
|                     | 48      | 5240            | 5.10                | 5.50          |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 4.99                | 5.00          | 100.00       |
|                     | 46      | 5230            | 5.07                | 5.50          |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 5.09                | 5.50          | 100.00       |
|                     | 40      | 5200            | 5.12                | 5.50          |              |
|                     | 44      | 5220            | 5.12                | 5.50          |              |
|                     | 48      | 5240            | 5.19                | 5.50          |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 5.03                | 5.50          | 100.00       |
|                     | 46      | 5230            | 5.20                | 5.50          |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 5.23                | 5.50          | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 5.11                | 5.50          | 100.00       |
|                     | 40      | 5200            | 5.18                | 5.50          |              |
|                     | 44      | 5220            | 5.25                | 5.50          |              |
|                     | 48      | 5240            | 5.22                | 5.50          |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 5.04                | 5.50          | 100.00       |
|                     | 46      | 5230            | 5.24                | 5.50          |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 5.12                | 5.50          | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 5.26                | 5.50          | 100.00       |
|                     | 40      | 5200            | 5.22                | 5.50          |              |
|                     | 44      | 5220            | 5.28                | 5.50          |              |
|                     | 48      | 5240            | 5.29                | 5.50          |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 5.17                | 5.50          | 100.00       |
|                     | 46      | 5230            | 5.33                | 5.50          |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 5.29                | 5.50          | 100.00       |

## 【5.2GHz WLAN\_Ant 6+7\_Full Power】

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 19.86               | 20.00         | 99.32        |
|                     | 40      | 5200            | 21.97               | 22.30         |              |
|                     | 44      | 5220            | 21.87               | 22.00         |              |
|                     | 48      | 5240            | 19.80               | 20.30         |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 19.72               | 20.00         | 100.00       |
|                     | 40      | 5200            | 21.71               | 21.80         |              |
|                     | 44      | 5220            | 21.67               | 22.00         |              |
|                     | 48      | 5240            | 19.66               | 19.80         |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 19.86               | 20.00         | 100.00       |
|                     | 46      | 5230            | 19.79               | 20.00         |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 19.76               | 20.00         | 100.00       |
|                     | 40      | 5200            | 21.77               | 22.00         |              |
|                     | 44      | 5220            | 21.72               | 22.00         |              |
|                     | 48      | 5240            | 19.73               | 20.00         |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 19.92               | 20.00         | 100.00       |
|                     | 46      | 5230            | 19.86               | 20.00         |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 19.92               | 20.30         | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 19.78               | 20.00         | 100.00       |
|                     | 40      | 5200            | 21.79               | 22.00         |              |
|                     | 44      | 5220            | 21.75               | 22.00         |              |
|                     | 48      | 5240            | 19.79               | 20.00         |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 19.96               | 20.00         | 100.00       |
|                     | 46      | 5230            | 19.90               | 20.30         |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 19.97               | 20.30         | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 19.82               | 20.00         | 100.00       |
|                     | 40      | 5200            | 21.83               | 22.30         |              |
|                     | 44      | 5220            | 21.79               | 22.00         |              |
|                     | 48      | 5240            | 19.84               | 20.30         |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 20.01               | 20.30         | 100.00       |
|                     | 46      | 5230            | 19.96               | 20.30         |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 20.01               | 20.30         | 100.00       |

**【5.2GHz WLAN\_Ant 6+7\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 10.14               | 10.50         | 99.32        |
|                     | 40      | 5200            | 10.13               | 10.50         |              |
|                     | 44      | 5220            | 10.22               | 10.50         |              |
|                     | 48      | 5240            | 10.23               | 10.50         |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 10.14               | 10.50         | 100.00       |
|                     | 40      | 5200            | 9.99                | 10.00         |              |
|                     | 44      | 5220            | 10.01               | 10.30         |              |
|                     | 48      | 5240            | 10.02               | 10.30         |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 10.03               | 10.30         | 100.00       |
|                     | 46      | 5230            | 10.02               | 10.30         |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 10.19               | 10.50         | 100.00       |
|                     | 40      | 5200            | 10.09               | 10.50         |              |
|                     | 44      | 5220            | 10.09               | 10.30         |              |
|                     | 48      | 5240            | 10.05               | 10.30         |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 10.14               | 10.50         | 100.00       |
|                     | 46      | 5230            | 10.03               | 10.30         |              |
| 802.11ac-VHT80 MCS0 | 42      | 5210            | 10.22               | 10.50         | 100.00       |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 10.23               | 10.50         | 100.00       |
|                     | 40      | 5200            | 10.16               | 10.50         |              |
|                     | 44      | 5220            | 10.12               | 10.30         |              |
|                     | 48      | 5240            | 10.14               | 10.50         |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 10.23               | 10.50         | 100.00       |
|                     | 46      | 5230            | 10.17               | 10.50         |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 10.12               | 10.30         | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 10.16               | 10.50         | 100.00       |
|                     | 40      | 5200            | 10.23               | 10.50         |              |
|                     | 44      | 5220            | 10.23               | 10.50         |              |
|                     | 48      | 5240            | 10.20               | 10.50         |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 10.31               | 10.50         | 100.00       |
|                     | 46      | 5230            | 10.19               | 10.50         |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 10.19               | 10.50         | 100.00       |

**【5.2GHz WLAN\_Ant 6+7\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 36      | 5180            | 8.20                | 8.50          | 99.32        |
|                     | 40      | 5200            | 8.15                | 8.50          |              |
|                     | 44      | 5220            | 8.15                | 8.30          |              |
|                     | 48      | 5240            | 8.14                | 8.50          |              |
| 802.11n-HT20 MCS0   | 36      | 5180            | 8.02                | 8.30          | 100.00       |
|                     | 40      | 5200            | 7.95                | 8.30          |              |
|                     | 44      | 5220            | 7.93                | 8.30          |              |
|                     | 48      | 5240            | 7.88                | 8.30          |              |
| 802.11n-HT40 MCS0   | 38      | 5190            | 7.98                | 8.00          | 100.00       |
|                     | 46      | 5230            | 7.92                | 8.30          |              |
| 802.11ac-VHT20 MCS0 | 36      | 5180            | 8.07                | 8.50          | 100.00       |
|                     | 40      | 5200            | 8.03                | 8.30          |              |
|                     | 44      | 5220            | 8.00                | 8.30          |              |
|                     | 48      | 5240            | 7.98                | 8.30          |              |
| 802.11ac-VHT40 MCS0 | 38      | 5190            | 8.03                | 8.50          | 100.00       |
| 802.11ac-VHT80 MCS0 | 46      | 5230            | 8.01                | 8.30          | 100.00       |
|                     | 42      | 5210            | 7.97                | 8.30          |              |
| 802.11ax-HE20 MCS0  | 36      | 5180            | 8.10                | 8.50          | 100.00       |
|                     | 40      | 5200            | 8.08                | 8.30          |              |
|                     | 44      | 5220            | 8.09                | 8.30          |              |
|                     | 48      | 5240            | 8.09                | 8.30          |              |
| 802.11ax-HE40 MCS0  | 38      | 5190            | 8.07                | 8.50          | 100.00       |
|                     | 46      | 5230            | 8.06                | 8.30          |              |
| 802.11ax-HE80 MCS0  | 42      | 5210            | 7.94                | 8.30          | 100.00       |
| 802.11be-EHT20 MCS0 | 36      | 5180            | 8.28                | 8.50          | 100.00       |
|                     | 40      | 5200            | 8.11                | 8.30          |              |
|                     | 44      | 5220            | 8.11                | 8.30          |              |
|                     | 48      | 5240            | 8.14                | 8.30          |              |
| 802.11be-EHT40 MCS0 | 38      | 5190            | 8.16                | 8.50          | 100.00       |
|                     | 46      | 5230            | 8.13                | 8.30          |              |
| 802.11be-EHT80 MCS0 | 42      | 5210            | 8.10                | 8.30          | 100.00       |

**【5.3GHz WLAN\_Ant 6\_Full Power】**

| Mode                 | Channel | Frequency (MHz) | Ant 6               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 16.63               | 17.00         | 98.97        |
|                      | 56      | 5280            | 18.85               | 19.00         |              |
|                      | 60      | 5300            | 18.85               | 19.00         |              |
|                      | 64      | 5320            | 17.08               | 17.50         |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 16.45               | 16.50         | 100.00       |
|                      | 56      | 5280            | 18.58               | 19.00         |              |
|                      | 60      | 5300            | 18.69               | 19.00         |              |
|                      | 64      | 5320            | 16.79               | 17.00         |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 16.66               | 17.00         | 100.00       |
|                      | 62      | 5310            | 16.91               | 17.00         |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 16.51               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.62               | 19.00         |              |
|                      | 60      | 5300            | 18.75               | 19.00         |              |
|                      | 64      | 5320            | 16.85               | 17.00         |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 16.70               | 17.00         | 100.00       |
|                      | 62      | 5310            | 16.94               | 17.00         |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.87               | 17.00         | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 15.70               | 16.00         | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 16.57               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.68               | 19.00         |              |
|                      | 60      | 5300            | 18.77               | 19.00         |              |
|                      | 64      | 5320            | 16.91               | 17.00         |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 16.73               | 17.00         | 100.00       |
|                      | 62      | 5310            | 16.98               | 17.00         |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 16.91               | 17.00         | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 15.72               | 16.00         | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 16.63               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.76               | 19.00         |              |
|                      | 60      | 5300            | 18.83               | 19.00         |              |
|                      | 64      | 5320            | 16.98               | 17.00         |              |
| 802.11be-EHT40 MCS0  | 54      | 5270            | 16.79               | 17.00         | 100.00       |
|                      | 62      | 5310            | 17.06               | 17.50         |              |
| 802.11be-EHT80 MCS0  | 58      | 5290            | 16.96               | 17.00         | 100.00       |
| 802.11be-EHT160 MCS0 | 50      | 5250            | 15.74               | 16.00         | 100.00       |

**【5.3GHz WLAN\_Ant 6\_Standalone】**

| Mode                 | Channel | Frequency (MHz) | Ant 6               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 6.94                | 7.00          | 98.97        |
|                      | 56      | 5280            | 7.10                | 7.50          |              |
|                      | 60      | 5300            | 7.17                | 7.50          |              |
|                      | 64      | 5320            | 7.48                | 7.50          |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 6.69                | 7.00          | 100.00       |
|                      | 56      | 5280            | 6.72                | 7.00          |              |
|                      | 60      | 5300            | 6.80                | 7.00          |              |
|                      | 64      | 5320            | 6.98                | 7.00          |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 6.72                | 7.00          | 100.00       |
|                      | 62      | 5310            | 6.95                | 7.00          |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 6.70                | 7.00          | 100.00       |
|                      | 56      | 5280            | 6.75                | 7.00          |              |
|                      | 60      | 5300            | 7.04                | 7.50          |              |
|                      | 64      | 5320            | 7.05                | 7.50          |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 6.91                | 7.00          | 100.00       |
|                      | 62      | 5310            | 6.99                | 7.00          |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 7.02                | 7.50          | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 6.40                | 6.50          | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 6.72                | 7.00          | 100.00       |
|                      | 56      | 5280            | 6.80                | 7.00          |              |
|                      | 60      | 5300            | 7.06                | 7.50          |              |
|                      | 64      | 5320            | 7.09                | 7.50          |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 6.93                | 7.00          | 100.00       |
|                      | 62      | 5310            | 7.08                | 7.50          |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 7.11                | 7.50          | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 6.41                | 6.50          | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 6.78                | 7.00          | 100.00       |
|                      | 56      | 5280            | 6.93                | 7.00          |              |



|                      |    |      |      |      |        |
|----------------------|----|------|------|------|--------|
| 802.11be-EHT40 MCS0  | 60 | 5300 | 7.19 | 7.50 | 100.00 |
|                      | 64 | 5320 | 7.16 | 7.50 |        |
|                      | 54 | 5270 | 6.97 | 7.00 |        |
|                      | 62 | 5310 | 7.18 | 7.50 |        |
| 802.11be-EHT80 MCS0  | 58 | 5290 | 7.22 | 7.50 | 100.00 |
| 802.11be-EHT160 MCS0 | 50 | 5250 | 6.44 | 6.50 | 100.00 |

## 【5.3GHz WLAN\_Ant 6\_Simultaneous】

| Mode                 | Channel | Frequency (MHz) | Ant 6               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 5.62                | 6.00          | 98.97        |
|                      | 56      | 5280            | 5.72                | 6.00          |              |
|                      | 60      | 5300            | 5.83                | 6.00          |              |
|                      | 64      | 5320            | 6.04                | 6.50          |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 5.25                | 5.50          | 100.00       |
|                      | 56      | 5280            | 5.30                | 5.50          |              |
|                      | 60      | 5300            | 5.48                | 5.50          |              |
|                      | 64      | 5320            | 5.47                | 5.50          |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 5.36                | 5.50          | 100.00       |
|                      | 62      | 5310            | 5.45                | 5.50          |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 5.26                | 5.50          | 100.00       |
|                      | 56      | 5280            | 5.35                | 5.50          |              |
|                      | 60      | 5300            | 5.53                | 6.00          |              |
|                      | 64      | 5320            | 5.61                | 6.00          |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 5.45                | 5.50          | 100.00       |
|                      | 62      | 5310            | 5.53                | 6.00          |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 5.58                | 6.00          | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 5.04                | 5.50          | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 5.29                | 5.50          | 100.00       |
|                      | 56      | 5280            | 5.46                | 5.50          |              |
|                      | 60      | 5300            | 5.60                | 6.00          |              |
|                      | 64      | 5320            | 5.73                | 6.00          |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 5.57                | 6.00          | 100.00       |
|                      | 62      | 5310            | 5.65                | 6.00          |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 5.63                | 6.00          | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 5.05                | 5.50          | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 5.32                | 5.50          | 100.00       |
|                      | 56      | 5280            | 5.61                | 6.00          |              |
|                      | 60      | 5300            | 5.83                | 6.00          |              |
|                      | 64      | 5320            | 5.82                | 6.00          |              |
| 802.11be-EHT40 MCS0  | 54      | 5270            | 5.65                | 6.00          | 100.00       |
|                      | 62      | 5310            | 5.74                | 6.00          |              |
| 802.11be-EHT80 MCS0  | 58      | 5290            | 5.78                | 6.00          | 100.00       |
| 802.11be-EHT160 MCS0 | 50      | 5250            | 5.08                | 5.50          | 100.00       |

## 【5.3GHz WLAN\_Ant 7\_Full Power】

| Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 16.99               | 17.00         | 99.32        |
|                      | 56      | 5280            | 19.14               | 19.50         |              |
|                      | 60      | 5300            | 19.07               | 19.50         |              |
|                      | 64      | 5320            | 16.66               | 17.00         |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 16.83               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.90               | 19.00         |              |
|                      | 60      | 5300            | 18.95               | 19.00         |              |
|                      | 64      | 5320            | 16.54               | 17.00         |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 16.94               | 17.00         | 100.00       |
|                      | 62      | 5310            | 16.93               | 17.00         |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 16.86               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.96               | 19.00         |              |
|                      | 60      | 5300            | 18.97               | 19.00         |              |
|                      | 64      | 5320            | 16.57               | 17.00         |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 16.97               | 17.00         | 100.00       |
|                      | 62      | 5310            | 16.98               | 17.00         |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 16.97               | 17.00         | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 16.26               | 16.50         | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 16.91               | 17.00         | 100.00       |
|                      | 56      | 5280            | 18.98               | 19.00         |              |



|                      |    |      |       |       |        |
|----------------------|----|------|-------|-------|--------|
| 802.11ax-HE40 MCS0   | 60 | 5300 | 18.99 | 19.00 | 100.00 |
|                      | 64 | 5320 | 16.61 | 17.00 |        |
|                      | 54 | 5270 | 17.00 | 17.50 |        |
|                      | 62 | 5310 | 17.00 | 17.50 |        |
| 802.11ax-HE80 MCS0   | 58 | 5290 | 17.02 | 17.50 | 100.00 |
| 802.11ax-HE160 MCS0  | 50 | 5250 | 16.29 | 16.50 | 100.00 |
| 802.11be-EHT20 MCS0  | 52 | 5260 | 16.98 | 17.00 | 100.00 |
|                      | 56 | 5280 | 19.05 | 19.50 |        |
|                      | 60 | 5300 | 19.06 | 19.50 |        |
|                      | 64 | 5320 | 16.68 | 17.00 |        |
| 802.11be-EHT40 MCS0  | 54 | 5270 | 17.06 | 17.50 | 100.00 |
| 802.11be-EHT80 MCS0  | 62 | 5310 | 17.03 | 17.50 | 100.00 |
| 802.11be-EHT160 MCS0 | 58 | 5290 | 17.05 | 17.50 | 100.00 |
|                      | 50 | 5250 | 16.31 | 16.50 | 100.00 |

## 【5.3GHz WLAN\_Ant 7\_Standalone】

| Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 7.75                | 8.00          | 99.32        |
|                      | 56      | 5280            | 7.63                | 8.00          |              |
|                      | 60      | 5300            | 7.74                | 8.00          |              |
|                      | 64      | 5320            | 7.64                | 8.00          |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 7.67                | 8.00          | 100.00       |
|                      | 56      | 5280            | 7.73                | 8.00          |              |
|                      | 60      | 5300            | 7.62                | 8.00          |              |
|                      | 64      | 5320            | 7.68                | 8.00          |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 7.70                | 8.00          | 100.00       |
|                      | 62      | 5310            | 7.50                | 8.00          |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 7.72                | 8.00          | 100.00       |
|                      | 56      | 5280            | 7.74                | 8.00          |              |
|                      | 60      | 5300            | 7.70                | 8.00          |              |
|                      | 64      | 5320            | 7.73                | 8.00          |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 7.73                | 8.00          | 100.00       |
|                      | 62      | 5310            | 7.61                | 8.00          |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 7.62                | 8.00          | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 7.37                | 7.50          | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 7.81                | 8.00          | 100.00       |
|                      | 56      | 5280            | 7.80                | 8.00          |              |
|                      | 60      | 5300            | 7.75                | 8.00          |              |
|                      | 64      | 5320            | 7.68                | 8.00          |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 7.83                | 8.00          | 100.00       |
|                      | 62      | 5310            | 7.76                | 8.00          |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 7.67                | 8.00          | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 7.41                | 7.50          | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 7.88                | 8.00          | 100.00       |
|                      | 56      | 5280            | 7.85                | 8.00          |              |
|                      | 60      | 5300            | 7.81                | 8.00          |              |
|                      | 64      | 5320            | 7.54                | 8.00          |              |
| 802.11be-EHT40 MCS0  | 54      | 5270            | 7.89                | 8.00          | 100.00       |
|                      | 62      | 5310            | 7.80                | 8.00          |              |
| 802.11be-EHT80 MCS0  | 58      | 5290            | 7.73                | 8.00          | 100.00       |
| 802.11be-EHT160 MCS0 | 50      | 5250            | 7.45                | 7.50          | 100.00       |

## 【5.3GHz WLAN\_Ant 7\_Simultaneous】

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 52      | 5260            | 5.10                | 5.50          | 99.32        |
|                     | 56      | 5280            | 5.34                | 5.50          |              |
|                     | 60      | 5300            | 5.18                | 5.50          |              |
|                     | 64      | 5320            | 5.10                | 5.50          |              |
| 802.11n-HT20 MCS0   | 52      | 5260            | 5.08                | 5.50          | 100.00       |
|                     | 56      | 5280            | 5.18                | 5.50          |              |
|                     | 60      | 5300            | 5.05                | 5.50          |              |
|                     | 64      | 5320            | 4.68                | 5.00          |              |
| 802.11n-HT40 MCS0   | 54      | 5270            | 5.15                | 5.50          | 100.00       |
|                     | 62      | 5310            | 4.98                | 5.00          |              |
| 802.11ac-VHT20 MCS0 | 52      | 5260            | 5.17                | 5.50          | 100.00       |
|                     | 56      | 5280            | 5.20                | 5.50          |              |



|                      |    |      |      |      |        |
|----------------------|----|------|------|------|--------|
| 802.11ac-VHT40 MCS0  | 60 | 5300 | 5.12 | 5.50 | 100.00 |
|                      | 64 | 5320 | 4.73 | 5.00 |        |
|                      | 54 | 5270 | 5.19 | 5.50 |        |
|                      | 62 | 5310 | 5.09 | 5.50 |        |
| 802.11ac-VHT80 MCS0  | 58 | 5290 | 5.06 | 5.50 | 100.00 |
| 802.11ac-VHT160 MCS0 | 50 | 5250 | 4.82 | 5.00 | 100.00 |
| 802.11ax-HE20 MCS0   | 52 | 5260 | 5.22 | 5.50 | 100.00 |
|                      | 56 | 5280 | 5.21 | 5.50 |        |
|                      | 60 | 5300 | 5.22 | 5.50 |        |
|                      | 64 | 5320 | 4.82 | 5.00 |        |
| 802.11ax-HE40 MCS0   | 54 | 5270 | 5.26 | 5.50 | 100.00 |
| 802.11ax-HE80 MCS0   | 62 | 5310 | 5.18 | 5.50 | 100.00 |
| 802.11ax-HE160 MCS0  | 58 | 5290 | 5.11 | 5.50 | 100.00 |
| 802.11ax-HE160 MCS0  | 50 | 5250 | 4.87 | 5.00 | 100.00 |
| 802.11be-EHT20 MCS0  | 52 | 5260 | 5.34 | 5.50 | 100.00 |
|                      | 56 | 5280 | 5.27 | 5.50 |        |
|                      | 60 | 5300 | 5.30 | 5.50 |        |
|                      | 64 | 5320 | 5.02 | 5.50 |        |
| 802.11be-EHT40 MCS0  | 54 | 5270 | 5.32 | 5.50 | 100.00 |
| 802.11be-EHT80 MCS0  | 62 | 5310 | 5.22 | 5.50 | 100.00 |
| 802.11be-EHT80 MCS0  | 58 | 5290 | 5.21 | 5.50 | 100.00 |
| 802.11be-EHT160 MCS0 | 50 | 5250 | 4.92 | 5.00 | 100.00 |

## 【5.3GHz WLAN\_Ant 6+7\_Full Power】

| Mode                 | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 19.83               | 20.00         | 99.32        |
|                      | 56      | 5280            | 22.01               | 22.30         |              |
|                      | 60      | 5300            | 21.97               | 22.30         |              |
|                      | 64      | 5320            | 19.89               | 20.30         |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 19.65               | 19.80         | 100.00       |
|                      | 56      | 5280            | 21.75               | 22.00         |              |
|                      | 60      | 5300            | 21.83               | 22.00         |              |
|                      | 64      | 5320            | 19.68               | 20.00         |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 19.81               | 20.00         | 100.00       |
|                      | 62      | 5310            | 19.93               | 20.00         |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 19.70               | 20.00         | 100.00       |
|                      | 56      | 5280            | 21.80               | 22.00         |              |
|                      | 60      | 5300            | 21.87               | 22.00         |              |
|                      | 64      | 5320            | 19.72               | 20.00         |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 19.85               | 20.00         | 100.00       |
|                      | 62      | 5310            | 19.97               | 20.00         |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 19.93               | 20.00         | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 19.41               | 19.80         | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 19.75               | 20.00         | 100.00       |
|                      | 56      | 5280            | 21.84               | 22.00         |              |
|                      | 60      | 5300            | 21.89               | 22.00         |              |
|                      | 64      | 5320            | 19.77               | 20.00         |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 19.88               | 20.30         | 100.00       |
|                      | 62      | 5310            | 20.00               | 20.30         |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 19.98               | 20.30         | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 19.44               | 19.80         | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 19.82               | 20.00         | 100.00       |
|                      | 56      | 5280            | 21.92               | 22.30         |              |
|                      | 60      | 5300            | 21.96               | 22.30         |              |
|                      | 64      | 5320            | 19.84               | 20.00         |              |
| 802.11be-EHT40 MCS0  | 54      | 5270            | 19.94               | 20.30         | 100.00       |
|                      | 62      | 5310            | 20.06               | 20.50         |              |
| 802.11be-EHT80 MCS0  | 58      | 5290            | 20.02               | 20.30         | 100.00       |
| 802.11be-EHT160 MCS0 | 50      | 5250            | 19.48               | 19.80         | 100.00       |

**【5.3GHz WLAN\_Ant 6+7\_Standalone】**

| Mode                 | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 10.37               | 10.50         | 99.32        |
|                      | 56      | 5280            | 10.38               | 10.80         |              |
|                      | 60      | 5300            | 10.47               | 10.80         |              |
|                      | 64      | 5320            | 10.57               | 10.80         |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 10.22               | 10.50         | 100.00       |
|                      | 56      | 5280            | 10.26               | 10.50         |              |
|                      | 60      | 5300            | 10.24               | 10.50         |              |
|                      | 64      | 5320            | 10.35               | 10.50         |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 10.25               | 10.50         | 100.00       |
|                      | 62      | 5310            | 10.24               | 10.50         |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 10.25               | 10.50         | 100.00       |
|                      | 56      | 5280            | 10.28               | 10.50         |              |
|                      | 60      | 5300            | 10.39               | 10.80         |              |
|                      | 64      | 5320            | 10.41               | 10.80         |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 10.35               | 10.50         | 100.00       |
|                      | 62      | 5310            | 10.32               | 10.50         |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 10.34               | 10.80         | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 9.92                | 10.00         | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 10.31               | 10.50         | 100.00       |
|                      | 56      | 5280            | 10.34               | 10.50         |              |
|                      | 60      | 5300            | 10.43               | 10.80         |              |
|                      | 64      | 5320            | 10.41               | 10.80         |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 10.41               | 10.50         | 100.00       |
|                      | 62      | 5310            | 10.44               | 10.80         |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 10.41               | 10.80         | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 9.95                | 10.00         | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 10.38               | 10.50         | 100.00       |
|                      | 56      | 5280            | 10.42               | 10.50         |              |
|                      | 60      | 5300            | 10.52               | 10.80         |              |
|                      | 64      | 5320            | 10.36               | 10.80         |              |
| 802.11be-EHT40 MCS0  | 54      | 5270            | 10.46               | 10.50         | 100.00       |
|                      | 62      | 5310            | 10.51               | 10.80         |              |
| 802.11be-EHT80 MCS0  | 58      | 5290            | 10.49               | 10.80         | 100.00       |
| 802.11be-EHT160 MCS0 | 50      | 5250            | 9.98                | 10.00         | 100.00       |

**【5.3GHz WLAN\_Ant 6+7\_Simultaneous】**

| Mode                 | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 52      | 5260            | 8.38                | 8.80          | 99.32        |
|                      | 56      | 5280            | 8.54                | 8.80          |              |
|                      | 60      | 5300            | 8.53                | 8.80          |              |
|                      | 64      | 5320            | 8.61                | 9.00          |              |
| 802.11n-HT20 MCS0    | 52      | 5260            | 8.18                | 8.50          | 100.00       |
|                      | 56      | 5280            | 8.25                | 8.50          |              |
|                      | 60      | 5300            | 8.28                | 8.50          |              |
|                      | 64      | 5320            | 8.10                | 8.30          |              |
| 802.11n-HT40 MCS0    | 54      | 5270            | 8.27                | 8.50          | 100.00       |
|                      | 62      | 5310            | 8.23                | 8.30          |              |
| 802.11ac-VHT20 MCS0  | 52      | 5260            | 8.23                | 8.50          | 100.00       |
|                      | 56      | 5280            | 8.29                | 8.50          |              |
|                      | 60      | 5300            | 8.34                | 8.80          |              |
|                      | 64      | 5320            | 8.20                | 8.50          |              |
| 802.11ac-VHT40 MCS0  | 54      | 5270            | 8.33                | 8.50          | 100.00       |
|                      | 62      | 5310            | 8.33                | 8.80          |              |
| 802.11ac-VHT80 MCS0  | 58      | 5290            | 8.34                | 8.80          | 100.00       |
| 802.11ac-VHT160 MCS0 | 50      | 5250            | 7.94                | 8.30          | 100.00       |
| 802.11ax-HE20 MCS0   | 52      | 5260            | 8.27                | 8.50          | 100.00       |
|                      | 56      | 5280            | 8.35                | 8.50          |              |
|                      | 60      | 5300            | 8.42                | 8.80          |              |
|                      | 64      | 5320            | 8.31                | 8.50          |              |
| 802.11ax-HE40 MCS0   | 54      | 5270            | 8.43                | 8.80          | 100.00       |
|                      | 62      | 5310            | 8.43                | 8.80          |              |
| 802.11ax-HE80 MCS0   | 58      | 5290            | 8.39                | 8.80          | 100.00       |
| 802.11ax-HE160 MCS0  | 50      | 5250            | 7.97                | 8.30          | 100.00       |
| 802.11be-EHT20 MCS0  | 52      | 5260            | 8.34                | 8.50          | 100.00       |



|                      |    |      |      |      |        |
|----------------------|----|------|------|------|--------|
|                      | 56 | 5280 | 8.45 | 8.80 |        |
|                      | 60 | 5300 | 8.58 | 8.80 |        |
|                      | 64 | 5320 | 8.45 | 8.80 |        |
| 802.11be-EHT40 MCS0  | 54 | 5270 | 8.50 | 8.80 | 100.00 |
|                      | 62 | 5310 | 8.50 | 8.80 |        |
| 802.11be-EHT80 MCS0  | 58 | 5290 | 8.51 | 8.80 | 100.00 |
| 802.11be-EHT160 MCS0 | 50 | 5250 | 8.01 | 8.30 | 100.00 |

## 【5.5GHz WLAN\_Ant 6\_Full Power】

| Mode                 | Channel | Frequency (MHz) | Ant 6               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100     | 5500            | 17.03               | 17.50         | 98.97        |
|                      | 116     | 5580            | 19.09               | 19.50         |              |
|                      | 124     | 5620            | 18.95               | 19.00         |              |
|                      | 132     | 5660            | 18.91               | 19.00         |              |
|                      | 144     | 5720            | 18.87               | 19.00         |              |
| 802.11n-HT20 MCS0    | 100     | 5500            | 16.82               | 17.00         | 100.00       |
|                      | 116     | 5580            | 18.90               | 19.00         |              |
|                      | 124     | 5620            | 18.88               | 19.00         |              |
|                      | 132     | 5660            | 18.70               | 19.00         |              |
|                      | 144     | 5720            | 18.80               | 19.00         |              |
| 802.11n-HT40 MCS0    | 102     | 5510            | 16.98               | 17.00         | 100.00       |
|                      | 110     | 5550            | 18.88               | 19.00         |              |
|                      | 126     | 5630            | 18.77               | 19.00         |              |
|                      | 134     | 5670            | 16.96               | 17.00         |              |
|                      | 142     | 5710            | 18.79               | 19.00         |              |
| 802.11ac-VHT20 MCS0  | 100     | 5500            | 16.84               | 17.00         | 100.00       |
|                      | 116     | 5580            | 18.93               | 19.00         |              |
|                      | 124     | 5620            | 18.95               | 19.00         |              |
|                      | 132     | 5660            | 18.72               | 19.00         |              |
|                      | 144     | 5720            | 18.83               | 19.00         |              |
| 802.11ac-VHT40 MCS0  | 102     | 5510            | 17.03               | 17.50         | 100.00       |
|                      | 110     | 5550            | 18.93               | 19.00         |              |
|                      | 126     | 5630            | 18.82               | 19.00         |              |
|                      | 134     | 5670            | 17.03               | 17.50         |              |
|                      | 142     | 5710            | 18.82               | 19.00         |              |
| 802.11ac-VHT80 MCS0  | 106     | 5530            | 17.15               | 17.50         | 100.00       |
|                      | 122     | 5610            | 17.20               | 17.50         |              |
|                      | 138     | 5690            | 18.83               | 19.00         |              |
| 802.11ac-VHT160 MCS0 | 114     | 5570            | 16.78               | 17.00         | 100.00       |
| 802.11ax-HE20 MCS0   | 100     | 5500            | 16.89               | 17.00         | 100.00       |
|                      | 116     | 5580            | 19.00               | 19.50         |              |
|                      | 124     | 5620            | 19.00               | 19.50         |              |
|                      | 132     | 5660            | 18.77               | 19.00         |              |
|                      | 144     | 5720            | 18.86               | 19.00         |              |
| 802.11ax-HE40 MCS0   | 102     | 5510            | 17.10               | 17.50         | 100.00       |
|                      | 110     | 5550            | 18.97               | 19.00         |              |
|                      | 126     | 5630            | 18.89               | 19.00         |              |
|                      | 134     | 5670            | 17.08               | 17.50         |              |
|                      | 142     | 5710            | 18.86               | 19.00         |              |
| 802.11ax-HE80 MCS0   | 106     | 5530            | 17.22               | 17.50         | 100.00       |
|                      | 122     | 5610            | 17.24               | 17.50         |              |
|                      | 138     | 5690            | 18.87               | 19.00         |              |
| 802.11ax-HE160 MCS0  | 114     | 5570            | 16.84               | 17.00         | 100.00       |
| 802.11be-EHT20 MCS0  | 100     | 5500            | 16.94               | 17.00         | 100.00       |
|                      | 116     | 5580            | 19.03               | 19.50         |              |
|                      | 124     | 5620            | 19.04               | 19.50         |              |
|                      | 132     | 5660            | 18.84               | 19.00         |              |
|                      | 144     | 5720            | 18.89               | 19.00         |              |
| 802.11be-EHT40 MCS0  | 102     | 5510            | 17.17               | 17.50         | 100.00       |
|                      | 110     | 5550            | 19.04               | 19.50         |              |
|                      | 126     | 5630            | 18.94               | 19.00         |              |
|                      | 134     | 5670            | 17.11               | 17.50         |              |
|                      | 142     | 5710            | 18.88               | 19.00         |              |
| 802.11be-EHT80 MCS0  | 106     | 5530            | 17.24               | 17.50         | 100.00       |
|                      | 122     | 5610            | 17.28               | 17.50         |              |
|                      | 138     | 5690            | 18.91               | 19.00         |              |
| 802.11be-EHT160 MCS0 | 114     | 5570            | 16.89               | 17.00         | 100.00       |



【5.5GHz WLAN\_Ant 6\_Standalone】

| Mode                 | Channel | Frequency<br>(MHz) | Ant 6                     |                  |                 |
|----------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                      |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps        | 100     | 5500               | 8.23                      | 8.50             | 98.97           |
|                      | 116     | 5580               | 7.95                      | 8.00             |                 |
|                      | 124     | 5620               | 8.05                      | 8.50             |                 |
|                      | 132     | 5660               | 7.95                      | 8.00             |                 |
|                      | 144     | 5720               | 8.34                      | 8.50             |                 |
| 802.11n-HT20 MCS0    | 100     | 5500               | 7.94                      | 8.00             | 100.00          |
|                      | 116     | 5580               | 7.70                      | 8.00             |                 |
|                      | 124     | 5620               | 7.72                      | 8.00             |                 |
|                      | 132     | 5660               | 7.74                      | 8.00             |                 |
|                      | 144     | 5720               | 8.09                      | 8.50             |                 |
| 802.11n-HT40 MCS0    | 102     | 5510               | 7.91                      | 8.00             | 100.00          |
|                      | 110     | 5550               | 7.94                      | 8.00             |                 |
|                      | 126     | 5630               | 8.02                      | 8.50             |                 |
|                      | 134     | 5670               | 7.62                      | 8.00             |                 |
|                      | 142     | 5710               | 7.82                      | 8.00             |                 |
| 802.11ac-VHT20 MCS0  | 100     | 5500               | 7.99                      | 8.00             | 100.00          |
|                      | 116     | 5580               | 7.79                      | 8.00             |                 |
|                      | 124     | 5620               | 7.80                      | 8.00             |                 |
|                      | 132     | 5660               | 7.79                      | 8.00             |                 |
|                      | 144     | 5720               | 8.13                      | 8.50             |                 |
| 802.11ac-VHT40 MCS0  | 102     | 5510               | 8.02                      | 8.50             | 100.00          |
|                      | 110     | 5550               | 8.01                      | 8.50             |                 |
|                      | 126     | 5630               | 8.15                      | 8.50             |                 |
|                      | 134     | 5670               | 7.70                      | 8.00             |                 |
|                      | 142     | 5710               | 7.83                      | 8.00             |                 |
| 802.11ac-VHT80 MCS0  | 106     | 5530               | 8.02                      | 8.50             | 100.00          |
|                      | 122     | 5610               | 7.87                      | 8.00             |                 |
|                      | 138     | 5690               | 7.71                      | 8.00             |                 |
| 802.11ac-VHT160 MCS0 | 114     | 5570               | 7.82                      | 8.00             | 100.00          |
| 802.11ax-HE20 MCS0   | 100     | 5500               | 8.04                      | 8.50             | 100.00          |
|                      | 116     | 5580               | 7.87                      | 8.00             |                 |
|                      | 124     | 5620               | 7.85                      | 8.00             |                 |
|                      | 132     | 5660               | 7.84                      | 8.00             |                 |
|                      | 144     | 5720               | 8.17                      | 8.50             |                 |
| 802.11ax-HE40 MCS0   | 102     | 5510               | 8.15                      | 8.50             | 100.00          |
|                      | 110     | 5550               | 8.10                      | 8.50             |                 |
|                      | 126     | 5630               | 8.17                      | 8.50             |                 |
|                      | 134     | 5670               | 7.76                      | 8.00             |                 |
|                      | 142     | 5710               | 7.91                      | 8.00             |                 |
| 802.11ax-HE80 MCS0   | 106     | 5530               | 8.07                      | 8.50             | 100.00          |
|                      | 122     | 5610               | 7.97                      | 8.00             |                 |
|                      | 138     | 5690               | 7.84                      | 8.00             |                 |
| 802.11ax-HE160 MCS0  | 114     | 5570               | 7.87                      | 8.00             | 100.00          |
| 802.11be-EHT20 MCS0  | 100     | 5500               | 8.07                      | 8.50             | 100.00          |
|                      | 116     | 5580               | 7.97                      | 8.00             |                 |
|                      | 124     | 5620               | 7.98                      | 8.00             |                 |
|                      | 132     | 5660               | 7.89                      | 8.00             |                 |
|                      | 144     | 5720               | 8.32                      | 8.50             |                 |
| 802.11be-EHT40 MCS0  | 102     | 5510               | 8.17                      | 8.50             | 100.00          |
|                      | 110     | 5550               | 8.12                      | 8.50             |                 |
|                      | 126     | 5630               | 8.17                      | 8.50             |                 |
|                      | 134     | 5670               | 7.83                      | 8.00             |                 |
|                      | 142     | 5710               | 7.93                      | 8.00             |                 |
| 802.11be-EHT80 MCS0  | 106     | 5530               | 8.14                      | 8.50             | 100.00          |
|                      | 122     | 5610               | 8.04                      | 8.50             |                 |
|                      | 138     | 5690               | 7.87                      | 8.00             |                 |
| 802.11be-EHT160 MCS0 | 114     | 5570               | 7.91                      | 8.00             | 100.00          |



【5.5GHz WLAN\_Ant 6\_Simultaneous】

| Mode                 | Channel | Frequency (MHz) | Ant 6               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100     | 5500            | 7.22                | 7.50          | 98.97        |
|                      | 116     | 5580            | 6.95                | 7.00          |              |
|                      | 124     | 5620            | 7.16                | 7.50          |              |
|                      | 132     | 5660            | 6.95                | 7.00          |              |
|                      | 144     | 5720            | 7.34                | 7.50          |              |
| 802.11n-HT20 MCS0    | 100     | 5500            | 7.02                | 7.50          | 100.00       |
|                      | 116     | 5580            | 6.79                | 7.00          |              |
|                      | 124     | 5620            | 6.72                | 7.00          |              |
|                      | 132     | 5660            | 6.74                | 7.00          |              |
|                      | 144     | 5720            | 7.05                | 7.50          |              |
| 802.11n-HT40 MCS0    | 102     | 5510            | 6.91                | 7.00          | 100.00       |
|                      | 110     | 5550            | 6.94                | 7.00          |              |
|                      | 126     | 5630            | 7.02                | 7.50          |              |
|                      | 134     | 5670            | 6.74                | 7.00          |              |
|                      | 142     | 5710            | 6.80                | 7.00          |              |
| 802.11ac-VHT20 MCS0  | 100     | 5500            | 7.09                | 7.50          | 100.00       |
|                      | 116     | 5580            | 6.79                | 7.00          |              |
|                      | 124     | 5620            | 6.80                | 7.00          |              |
|                      | 132     | 5660            | 6.79                | 7.00          |              |
|                      | 144     | 5720            | 7.13                | 7.50          |              |
| 802.11ac-VHT40 MCS0  | 102     | 5510            | 7.02                | 7.50          | 100.00       |
|                      | 110     | 5550            | 7.01                | 7.50          |              |
|                      | 126     | 5630            | 7.15                | 7.50          |              |
|                      | 134     | 5670            | 6.79                | 7.00          |              |
|                      | 142     | 5710            | 6.83                | 7.00          |              |
| 802.11ac-VHT80 MCS0  | 106     | 5530            | 7.02                | 7.50          | 100.00       |
|                      | 122     | 5610            | 6.87                | 7.00          |              |
|                      | 138     | 5690            | 6.71                | 7.00          |              |
| 802.11ac-VHT160 MCS0 | 114     | 5570            | 6.82                | 7.00          | 100.00       |
| 802.11ax-HE20 MCS0   | 100     | 5500            | 7.14                | 7.50          | 100.00       |
|                      | 116     | 5580            | 6.87                | 7.00          |              |
|                      | 124     | 5620            | 6.85                | 7.00          |              |
|                      | 132     | 5660            | 6.84                | 7.00          |              |
|                      | 144     | 5720            | 7.17                | 7.50          |              |
| 802.11ax-HE40 MCS0   | 102     | 5510            | 7.15                | 7.50          | 100.00       |
|                      | 110     | 5550            | 7.10                | 7.50          |              |
|                      | 126     | 5630            | 7.17                | 7.50          |              |
|                      | 134     | 5670            | 6.81                | 7.00          |              |
|                      | 142     | 5710            | 6.91                | 7.00          |              |
| 802.11ax-HE80 MCS0   | 106     | 5530            | 7.07                | 7.50          | 100.00       |
|                      | 122     | 5610            | 6.97                | 7.00          |              |
|                      | 138     | 5690            | 6.84                | 7.00          |              |
| 802.11ax-HE160 MCS0  | 114     | 5570            | 6.87                | 7.00          | 100.00       |
| 802.11be-EHT20 MCS0  | 100     | 5500            | 7.17                | 7.50          | 100.00       |
|                      | 116     | 5580            | 6.97                | 7.00          |              |
|                      | 124     | 5620            | 6.98                | 7.00          |              |
|                      | 132     | 5660            | 6.89                | 7.00          |              |
|                      | 144     | 5720            | 7.32                | 7.50          |              |
| 802.11be-EHT40 MCS0  | 102     | 5510            | 7.17                | 7.50          | 100.00       |
|                      | 110     | 5550            | 7.12                | 7.50          |              |
|                      | 126     | 5630            | 7.17                | 7.50          |              |
|                      | 134     | 5670            | 6.83                | 7.00          |              |
|                      | 142     | 5710            | 6.93                | 7.00          |              |
| 802.11be-EHT80 MCS0  | 106     | 5530            | 7.14                | 7.50          | 100.00       |
|                      | 122     | 5610            | 7.04                | 7.50          |              |
|                      | 138     | 5690            | 6.87                | 7.00          |              |
| 802.11be-EHT160 MCS0 | 114     | 5570            | 6.91                | 7.00          | 100.00       |



【5.5GHz WLAN\_Ant 7\_Full Power】

| Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100     | 5500            | 17.10               | 17.50         | 99.32        |
|                      | 116     | 5580            | 19.19               | 19.50         |              |
|                      | 124     | 5620            | 19.27               | 19.50         |              |
|                      | 132     | 5660            | 19.22               | 19.50         |              |
|                      | 144     | 5720            | 19.26               | 19.50         |              |
| 802.11n-HT20 MCS0    | 100     | 5500            | 17.01               | 17.50         | 100.00       |
|                      | 116     | 5580            | 18.98               | 19.00         |              |
|                      | 124     | 5620            | 19.15               | 19.50         |              |
|                      | 132     | 5660            | 19.09               | 19.50         |              |
|                      | 144     | 5720            | 19.07               | 19.50         |              |
| 802.11n-HT40 MCS0    | 102     | 5510            | 17.09               | 17.50         | 100.00       |
|                      | 110     | 5550            | 19.07               | 19.50         |              |
|                      | 126     | 5630            | 19.03               | 19.50         |              |
|                      | 134     | 5670            | 17.05               | 17.50         |              |
|                      | 142     | 5710            | 18.99               | 19.00         |              |
| 802.11ac-VHT20 MCS0  | 100     | 5500            | 17.06               | 17.50         | 100.00       |
|                      | 116     | 5580            | 19.05               | 19.50         |              |
|                      | 124     | 5620            | 19.18               | 19.50         |              |
|                      | 132     | 5660            | 19.11               | 19.50         |              |
|                      | 144     | 5720            | 19.11               | 19.50         |              |
| 802.11ac-VHT40 MCS0  | 102     | 5510            | 17.13               | 17.50         | 100.00       |
|                      | 110     | 5550            | 19.11               | 19.50         |              |
|                      | 126     | 5630            | 19.10               | 19.50         |              |
|                      | 134     | 5670            | 17.12               | 17.50         |              |
|                      | 142     | 5710            | 19.03               | 19.50         |              |
| 802.11ac-VHT80 MCS0  | 106     | 5530            | 17.09               | 17.50         | 100.00       |
|                      | 122     | 5610            | 16.97               | 17.00         |              |
|                      | 138     | 5690            | 19.09               | 19.50         |              |
| 802.11ac-VHT160 MCS0 | 114     | 5570            | 16.65               | 17.00         | 100.00       |
| 802.11ax-HE20 MCS0   | 100     | 5500            | 17.08               | 17.50         | 100.00       |
|                      | 116     | 5580            | 19.10               | 19.50         |              |
|                      | 124     | 5620            | 19.25               | 19.50         |              |
|                      | 132     | 5660            | 19.14               | 19.50         |              |
|                      | 144     | 5720            | 19.14               | 19.50         |              |
| 802.11ax-HE40 MCS0   | 102     | 5510            | 17.20               | 17.50         | 100.00       |
|                      | 110     | 5550            | 19.13               | 19.50         |              |
|                      | 126     | 5630            | 19.15               | 19.50         |              |
|                      | 134     | 5670            | 17.17               | 17.50         |              |
|                      | 142     | 5710            | 19.07               | 19.50         |              |
| 802.11ax-HE80 MCS0   | 106     | 5530            | 17.16               | 17.50         | 100.00       |
|                      | 122     | 5610            | 17.01               | 17.50         |              |
|                      | 138     | 5690            | 19.11               | 19.50         |              |
| 802.11ax-HE160 MCS0  | 114     | 5570            | 16.71               | 17.00         | 100.00       |
| 802.11be-EHT20 MCS0  | 100     | 5500            | 17.11               | 17.50         | 100.00       |
|                      | 116     | 5580            | 19.13               | 19.50         |              |
|                      | 124     | 5620            | 19.32               | 19.50         |              |
|                      | 132     | 5660            | 19.17               | 19.50         |              |
|                      | 144     | 5720            | 19.19               | 19.50         |              |
| 802.11be-EHT40 MCS0  | 102     | 5510            | 17.24               | 17.50         | 100.00       |
|                      | 110     | 5550            | 19.17               | 19.50         |              |
|                      | 126     | 5630            | 19.18               | 19.50         |              |
|                      | 134     | 5670            | 17.21               | 17.50         |              |
|                      | 142     | 5710            | 19.09               | 19.50         |              |
| 802.11be-EHT80 MCS0  | 106     | 5530            | 17.18               | 17.50         | 100.00       |
|                      | 122     | 5610            | 17.07               | 17.50         |              |
|                      | 138     | 5690            | 19.17               | 19.50         |              |
| 802.11be-EHT160 MCS0 | 114     | 5570            | 16.73               | 17.00         | 100.00       |



【5.5GHz WLAN\_Ant 7\_Standalone】

| Mode                 | Channel | Frequency<br>(MHz) | Ant 7                     |                  |                 |
|----------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                      |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps        | 100     | 5500               | 9.42                      | 9.50             | 99.32           |
|                      | 116     | 5580               | 9.28                      | 9.50             |                 |
|                      | 124     | 5620               | 9.37                      | 9.50             |                 |
|                      | 132     | 5660               | 9.31                      | 9.50             |                 |
|                      | 144     | 5720               | 9.29                      | 9.50             |                 |
| 802.11n-HT20 MCS0    | 100     | 5500               | 9.18                      | 9.50             | 100.00          |
|                      | 116     | 5580               | 9.02                      | 9.50             |                 |
|                      | 124     | 5620               | 9.05                      | 9.50             |                 |
|                      | 132     | 5660               | 9.14                      | 9.50             |                 |
|                      | 144     | 5720               | 9.08                      | 9.50             |                 |
| 802.11n-HT40 MCS0    | 102     | 5510               | 9.21                      | 9.50             | 100.00          |
|                      | 110     | 5550               | 9.07                      | 9.50             |                 |
|                      | 126     | 5630               | 9.16                      | 9.50             |                 |
|                      | 134     | 5670               | 9.04                      | 9.50             |                 |
|                      | 142     | 5710               | 8.99                      | 9.00             |                 |
| 802.11ac-VHT20 MCS0  | 100     | 5500               | 9.33                      | 9.50             | 100.00          |
|                      | 116     | 5580               | 9.06                      | 9.50             |                 |
|                      | 124     | 5620               | 9.11                      | 9.50             |                 |
|                      | 132     | 5660               | 9.19                      | 9.50             |                 |
|                      | 144     | 5720               | 9.14                      | 9.50             |                 |
| 802.11ac-VHT40 MCS0  | 102     | 5510               | 9.34                      | 9.50             | 100.00          |
|                      | 110     | 5550               | 9.20                      | 9.50             |                 |
|                      | 126     | 5630               | 9.17                      | 9.50             |                 |
|                      | 134     | 5670               | 9.15                      | 9.50             |                 |
|                      | 142     | 5710               | 9.06                      | 9.50             |                 |
| 802.11ac-VHT80 MCS0  | 106     | 5530               | 9.48                      | 9.50             | 100.00          |
|                      | 122     | 5610               | 9.12                      | 9.50             |                 |
|                      | 138     | 5690               | 9.09                      | 9.50             |                 |
| 802.11ac-VHT160 MCS0 | 114     | 5570               | 9.09                      | 9.50             | 100.00          |
| 802.11ax-HE20 MCS0   | 100     | 5500               | 9.35                      | 9.50             | 100.00          |
|                      | 116     | 5580               | 9.13                      | 9.50             |                 |
|                      | 124     | 5620               | 9.16                      | 9.50             |                 |
|                      | 132     | 5660               | 9.25                      | 9.50             |                 |
|                      | 144     | 5720               | 9.23                      | 9.50             |                 |
| 802.11ax-HE40 MCS0   | 102     | 5510               | 9.44                      | 9.50             | 100.00          |
|                      | 110     | 5550               | 9.32                      | 9.50             |                 |
|                      | 126     | 5630               | 9.23                      | 9.50             |                 |
|                      | 134     | 5670               | 9.18                      | 9.50             |                 |
|                      | 142     | 5710               | 9.12                      | 9.50             |                 |
| 802.11ax-HE80 MCS0   | 106     | 5530               | 9.31                      | 9.50             | 100.00          |
|                      | 122     | 5610               | 9.16                      | 9.50             |                 |
|                      | 138     | 5690               | 9.25                      | 9.50             |                 |
| 802.11ax-HE160 MCS0  | 114     | 5570               | 9.04                      | 9.50             | 100.00          |
| 802.11be-EHT20 MCS0  | 100     | 5500               | 9.30                      | 9.50             | 100.00          |
|                      | 116     | 5580               | 9.21                      | 9.50             |                 |
|                      | 124     | 5620               | 9.20                      | 9.50             |                 |
|                      | 132     | 5660               | 9.30                      | 9.50             |                 |
|                      | 144     | 5720               | 9.24                      | 9.50             |                 |
| 802.11be-EHT40 MCS0  | 102     | 5510               | 9.26                      | 9.50             | 100.00          |
|                      | 110     | 5550               | 9.38                      | 9.50             |                 |
|                      | 126     | 5630               | 9.27                      | 9.50             |                 |
|                      | 134     | 5670               | 9.25                      | 9.50             |                 |
|                      | 142     | 5710               | 9.22                      | 9.50             |                 |
| 802.11be-EHT80 MCS0  | 106     | 5530               | 9.22                      | 9.50             | 100.00          |
|                      | 122     | 5610               | 9.29                      | 9.50             |                 |
|                      | 138     | 5690               | 9.37                      | 9.50             |                 |
| 802.11be-EHT160 MCS0 | 114     | 5570               | 8.97                      | 9.00             | 100.00          |



【5.5GHz WLAN\_Ant 7\_Simultaneous】

| Mode                 | Channel | Frequency (MHz) | Ant 7               |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100     | 5500            | 7.77                | 8.00          | 99.32        |
|                      | 116     | 5580            | 7.81                | 8.00          |              |
|                      | 124     | 5620            | 7.65                | 8.00          |              |
|                      | 132     | 5660            | 7.74                | 8.00          |              |
|                      | 144     | 5720            | 7.51                | 8.00          |              |
| 802.11n-HT20 MCS0    | 100     | 5500            | 7.67                | 8.00          | 100.00       |
|                      | 116     | 5580            | 7.53                | 8.00          |              |
|                      | 124     | 5620            | 7.49                | 7.50          |              |
|                      | 132     | 5660            | 7.42                | 7.50          |              |
|                      | 144     | 5720            | 7.56                | 8.00          |              |
| 802.11n-HT40 MCS0    | 102     | 5510            | 7.70                | 8.00          | 100.00       |
|                      | 110     | 5550            | 7.59                | 8.00          |              |
|                      | 126     | 5630            | 7.51                | 8.00          |              |
|                      | 134     | 5670            | 7.48                | 7.50          |              |
|                      | 142     | 5710            | 7.42                | 7.50          |              |
| 802.11ac-VHT20 MCS0  | 100     | 5500            | 7.72                | 8.00          | 100.00       |
|                      | 116     | 5580            | 7.61                | 8.00          |              |
|                      | 124     | 5620            | 7.60                | 8.00          |              |
|                      | 132     | 5660            | 7.55                | 8.00          |              |
|                      | 144     | 5720            | 7.59                | 8.00          |              |
| 802.11ac-VHT40 MCS0  | 102     | 5510            | 7.77                | 8.00          | 100.00       |
|                      | 110     | 5550            | 7.67                | 8.00          |              |
|                      | 126     | 5630            | 7.61                | 8.00          |              |
|                      | 134     | 5670            | 7.59                | 8.00          |              |
|                      | 142     | 5710            | 7.54                | 8.00          |              |
| 802.11ac-VHT80 MCS0  | 106     | 5530            | 7.92                | 8.00          | 100.00       |
|                      | 122     | 5610            | 7.55                | 8.00          |              |
|                      | 138     | 5690            | 7.66                | 8.00          |              |
| 802.11ac-VHT160 MCS0 | 114     | 5570            | 7.69                | 8.00          | 100.00       |
| 802.11ax-HE20 MCS0   | 100     | 5500            | 7.79                | 8.00          | 100.00       |
|                      | 116     | 5580            | 7.62                | 8.00          |              |
|                      | 124     | 5620            | 7.65                | 8.00          |              |
|                      | 132     | 5660            | 7.74                | 8.00          |              |
|                      | 144     | 5720            | 7.65                | 8.00          |              |
| 802.11ax-HE40 MCS0   | 102     | 5510            | 7.91                | 8.00          | 100.00       |
|                      | 110     | 5550            | 7.78                | 8.00          |              |
|                      | 126     | 5630            | 7.65                | 8.00          |              |
|                      | 134     | 5670            | 7.64                | 8.00          |              |
|                      | 142     | 5710            | 7.55                | 8.00          |              |
| 802.11ax-HE80 MCS0   | 106     | 5530            | 7.95                | 8.00          | 100.00       |
|                      | 122     | 5610            | 7.61                | 8.00          |              |
|                      | 138     | 5690            | 7.71                | 8.00          |              |
| 802.11ax-HE160 MCS0  | 114     | 5570            | 7.62                | 8.00          | 100.00       |
| 802.11be-EHT20 MCS0  | 100     | 5500            | 7.88                | 8.00          | 100.00       |
|                      | 116     | 5580            | 7.65                | 8.00          |              |
|                      | 124     | 5620            | 7.67                | 8.00          |              |
|                      | 132     | 5660            | 7.78                | 8.00          |              |
|                      | 144     | 5720            | 7.69                | 8.00          |              |
| 802.11be-EHT40 MCS0  | 102     | 5510            | 7.79                | 8.00          | 100.00       |
|                      | 110     | 5550            | 7.84                | 8.00          |              |
|                      | 126     | 5630            | 7.68                | 8.00          |              |
|                      | 134     | 5670            | 7.70                | 8.00          |              |
|                      | 142     | 5710            | 7.65                | 8.00          |              |
| 802.11be-EHT80 MCS0  | 106     | 5530            | 7.97                | 8.00          | 100.00       |
|                      | 122     | 5610            | 7.74                | 8.00          |              |
|                      | 138     | 5690            | 7.78                | 8.00          |              |
| 802.11be-EHT160 MCS0 | 114     | 5570            | 7.52                | 8.00          | 100.00       |



【5.5GHz WLAN\_Ant 6+7\_Full Power】

| Mode                 | Channel | Frequency<br>(MHz) | Ant 6+7                   |                  |                 |
|----------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                      |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps        | 100     | 5500               | 20.08                     | 20.50            | 99.32           |
|                      | 116     | 5580               | 22.15                     | 22.50            |                 |
|                      | 124     | 5620               | 22.13                     | 22.30            |                 |
|                      | 132     | 5660               | 22.08                     | 22.30            |                 |
|                      | 144     | 5720               | 22.08                     | 22.30            |                 |
| 802.11n-HT20 MCS0    | 100     | 5500               | 19.93                     | 20.30            | 100.00          |
|                      | 116     | 5580               | 21.95                     | 22.00            |                 |
|                      | 124     | 5620               | 22.03                     | 22.30            |                 |
|                      | 132     | 5660               | 21.91                     | 22.30            |                 |
|                      | 144     | 5720               | 21.95                     | 22.30            |                 |
| 802.11n-HT40 MCS0    | 102     | 5510               | 20.05                     | 20.30            | 100.00          |
|                      | 110     | 5550               | 21.99                     | 22.30            |                 |
|                      | 126     | 5630               | 21.91                     | 22.30            |                 |
|                      | 134     | 5670               | 20.02                     | 20.30            |                 |
|                      | 142     | 5710               | 21.90                     | 22.00            |                 |
| 802.11ac-VHT20 MCS0  | 100     | 5500               | 19.96                     | 20.30            | 100.00          |
|                      | 116     | 5580               | 22.00                     | 22.30            |                 |
|                      | 124     | 5620               | 22.08                     | 22.30            |                 |
|                      | 132     | 5660               | 21.93                     | 22.30            |                 |
|                      | 144     | 5720               | 21.98                     | 22.30            |                 |
| 802.11ac-VHT40 MCS0  | 102     | 5510               | 20.09                     | 20.50            | 100.00          |
|                      | 110     | 5550               | 22.03                     | 22.30            |                 |
|                      | 126     | 5630               | 21.97                     | 22.30            |                 |
|                      | 134     | 5670               | 20.09                     | 20.50            |                 |
|                      | 142     | 5710               | 21.94                     | 22.30            |                 |
| 802.11ac-VHT80 MCS0  | 106     | 5530               | 20.13                     | 20.50            | 100.00          |
|                      | 122     | 5610               | 20.10                     | 20.30            |                 |
|                      | 138     | 5690               | 21.97                     | 22.30            |                 |
| 802.11ac-VHT160 MCS0 | 114     | 5570               | 19.73                     | 20.00            | 100.00          |
| 802.11ax-HE20 MCS0   | 100     | 5500               | 20.00                     | 20.30            | 100.00          |
|                      | 116     | 5580               | 22.06                     | 22.50            |                 |
|                      | 124     | 5620               | 22.14                     | 22.50            |                 |
|                      | 132     | 5660               | 21.97                     | 22.30            |                 |
|                      | 144     | 5720               | 22.01                     | 22.30            |                 |
| 802.11ax-HE40 MCS0   | 102     | 5510               | 20.16                     | 20.50            | 100.00          |
|                      | 110     | 5550               | 22.06                     | 22.30            |                 |
|                      | 126     | 5630               | 22.03                     | 22.30            |                 |
|                      | 134     | 5670               | 20.14                     | 20.50            |                 |
|                      | 142     | 5710               | 21.98                     | 22.30            |                 |
| 802.11ax-HE80 MCS0   | 106     | 5530               | 20.20                     | 20.50            | 100.00          |
|                      | 122     | 5610               | 20.14                     | 20.50            |                 |
|                      | 138     | 5690               | 22.00                     | 22.30            |                 |
| 802.11ax-HE160 MCS0  | 114     | 5570               | 19.79                     | 20.00            | 100.00          |
| 802.11be-EHT20 MCS0  | 100     | 5500               | 20.04                     | 20.30            | 100.00          |
|                      | 116     | 5580               | 22.09                     | 22.50            |                 |
|                      | 124     | 5620               | 22.19                     | 22.50            |                 |
|                      | 132     | 5660               | 22.02                     | 22.30            |                 |
|                      | 144     | 5720               | 22.05                     | 22.30            |                 |
| 802.11be-EHT40 MCS0  | 102     | 5510               | 20.22                     | 20.50            | 100.00          |
|                      | 110     | 5550               | 22.12                     | 22.50            |                 |
|                      | 126     | 5630               | 22.07                     | 22.30            |                 |
|                      | 134     | 5670               | 20.17                     | 20.50            |                 |
|                      | 142     | 5710               | 22.00                     | 22.30            |                 |
| 802.11be-EHT80 MCS0  | 106     | 5530               | 20.22                     | 20.50            | 100.00          |
|                      | 122     | 5610               | 20.19                     | 20.50            |                 |
|                      | 138     | 5690               | 22.05                     | 22.30            |                 |
| 802.11be-EHT160 MCS0 | 114     | 5570               | 19.82                     | 20.00            | 100.00          |



【5.5GHz WLAN\_Ant 6+7\_Standalone】

| Mode                 | Channel | Frequency<br>(MHz) | Ant 6+7                   |                  |                 |
|----------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                      |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps        | 100     | 5500               | 11.88                     | 12.00            | 99.32           |
|                      | 116     | 5580               | 11.68                     | 11.80            |                 |
|                      | 124     | 5620               | 11.77                     | 12.00            |                 |
|                      | 132     | 5660               | 11.69                     | 11.80            |                 |
|                      | 144     | 5720               | 11.85                     | 12.00            |                 |
| 802.11n-HT20 MCS0    | 100     | 5500               | 11.61                     | 11.80            | 100.00          |
|                      | 116     | 5580               | 11.42                     | 11.80            |                 |
|                      | 124     | 5620               | 11.45                     | 11.80            |                 |
|                      | 132     | 5660               | 11.51                     | 11.80            |                 |
|                      | 144     | 5720               | 11.62                     | 12.00            |                 |
| 802.11n-HT40 MCS0    | 102     | 5510               | 11.62                     | 11.80            | 100.00          |
|                      | 110     | 5550               | 11.55                     | 11.80            |                 |
|                      | 126     | 5630               | 11.64                     | 12.00            |                 |
|                      | 134     | 5670               | 11.40                     | 11.80            |                 |
|                      | 142     | 5710               | 11.45                     | 11.50            |                 |
| 802.11ac-VHT20 MCS0  | 100     | 5500               | 11.72                     | 11.80            | 100.00          |
|                      | 116     | 5580               | 11.48                     | 11.80            |                 |
|                      | 124     | 5620               | 11.51                     | 11.80            |                 |
|                      | 132     | 5660               | 11.56                     | 11.80            |                 |
|                      | 144     | 5720               | 11.67                     | 12.00            |                 |
| 802.11ac-VHT40 MCS0  | 102     | 5510               | 11.74                     | 12.00            | 100.00          |
|                      | 110     | 5550               | 11.66                     | 12.00            |                 |
|                      | 126     | 5630               | 11.70                     | 12.00            |                 |
|                      | 134     | 5670               | 11.50                     | 11.80            |                 |
|                      | 142     | 5710               | 11.50                     | 11.80            |                 |
| 802.11ac-VHT80 MCS0  | 106     | 5530               | 11.82                     | 12.00            | 100.00          |
|                      | 122     | 5610               | 11.55                     | 11.80            |                 |
|                      | 138     | 5690               | 11.46                     | 11.80            |                 |
| 802.11ac-VHT160 MCS0 | 114     | 5570               | 11.51                     | 11.80            | 100.00          |
| 802.11ax-HE20 MCS0   | 100     | 5500               | 11.75                     | 12.00            | 100.00          |
|                      | 116     | 5580               | 11.56                     | 11.80            |                 |
|                      | 124     | 5620               | 11.56                     | 11.80            |                 |
|                      | 132     | 5660               | 11.61                     | 11.80            |                 |
|                      | 144     | 5720               | 11.74                     | 12.00            |                 |
| 802.11ax-HE40 MCS0   | 102     | 5510               | 11.85                     | 12.00            | 100.00          |
|                      | 110     | 5550               | 11.76                     | 12.00            |                 |
|                      | 126     | 5630               | 11.74                     | 12.00            |                 |
|                      | 134     | 5670               | 11.54                     | 11.80            |                 |
|                      | 142     | 5710               | 11.57                     | 11.80            |                 |
| 802.11ax-HE80 MCS0   | 106     | 5530               | 11.74                     | 12.00            | 100.00          |
|                      | 122     | 5610               | 11.62                     | 11.80            |                 |
|                      | 138     | 5690               | 11.61                     | 11.80            |                 |
| 802.11ax-HE160 MCS0  | 114     | 5570               | 11.50                     | 11.80            | 100.00          |
| 802.11be-EHT20 MCS0  | 100     | 5500               | 11.74                     | 12.00            | 100.00          |
|                      | 116     | 5580               | 11.64                     | 11.80            |                 |
|                      | 124     | 5620               | 11.64                     | 11.80            |                 |
|                      | 132     | 5660               | 11.66                     | 11.80            |                 |
|                      | 144     | 5720               | 11.81                     | 12.00            |                 |
| 802.11be-EHT40 MCS0  | 102     | 5510               | 11.76                     | 12.00            | 100.00          |
|                      | 110     | 5550               | 11.81                     | 12.00            |                 |
|                      | 126     | 5630               | 11.77                     | 12.00            |                 |
|                      | 134     | 5670               | 11.61                     | 11.80            |                 |
|                      | 142     | 5710               | 11.63                     | 11.80            |                 |
| 802.11be-EHT80 MCS0  | 106     | 5530               | 11.72                     | 12.00            | 100.00          |
|                      | 122     | 5610               | 11.72                     | 12.00            |                 |
|                      | 138     | 5690               | 11.69                     | 11.80            |                 |
| 802.11be-EHT160 MCS0 | 114     | 5570               | 11.48                     | 11.50            | 100.00          |



【5.5GHz WLAN\_Ant 6+7\_Simultaneous】

| Mode                 | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|----------------------|---------|-----------------|---------------------|---------------|--------------|
|                      |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps        | 100     | 5500            | 10.51               | 10.80         | 100.00       |
|                      | 116     | 5580            | 10.41               | 10.50         |              |
|                      | 124     | 5620            | 10.42               | 10.80         |              |
|                      | 132     | 5660            | 10.37               | 10.50         |              |
|                      | 144     | 5720            | 10.44               | 10.80         |              |
| 802.11n-HT20 MCS0    | 100     | 5500            | 10.37               | 10.80         | 100.00       |
|                      | 116     | 5580            | 10.19               | 10.50         |              |
|                      | 124     | 5620            | 10.13               | 10.30         |              |
|                      | 132     | 5660            | 10.10               | 10.30         |              |
|                      | 144     | 5720            | 10.32               | 10.80         |              |
| 802.11n-HT40 MCS0    | 102     | 5510            | 10.33               | 10.50         | 100.00       |
|                      | 110     | 5550            | 10.29               | 10.50         |              |
|                      | 126     | 5630            | 10.28               | 10.80         |              |
|                      | 134     | 5670            | 10.14               | 10.30         |              |
|                      | 142     | 5710            | 10.13               | 10.30         |              |
| 802.11ac-VHT20 MCS0  | 100     | 5500            | 10.43               | 10.80         | 100.00       |
|                      | 116     | 5580            | 10.23               | 10.50         |              |
|                      | 124     | 5620            | 10.23               | 10.50         |              |
|                      | 132     | 5660            | 10.20               | 10.50         |              |
|                      | 144     | 5720            | 10.38               | 10.80         |              |
| 802.11ac-VHT40 MCS0  | 102     | 5510            | 10.42               | 10.80         | 100.00       |
|                      | 110     | 5550            | 10.36               | 10.80         |              |
|                      | 126     | 5630            | 10.40               | 10.80         |              |
|                      | 134     | 5670            | 10.22               | 10.50         |              |
|                      | 142     | 5710            | 10.21               | 10.50         |              |
| 802.11ac-VHT80 MCS0  | 106     | 5530            | 10.50               | 10.80         | 100.00       |
|                      | 122     | 5610            | 10.23               | 10.50         |              |
|                      | 138     | 5690            | 10.22               | 10.50         |              |
| 802.11ac-VHT160 MCS0 | 114     | 5570            | 10.29               | 10.50         | 100.00       |
| 802.11ax-HE20 MCS0   | 100     | 5500            | 10.49               | 10.80         | 100.00       |
|                      | 116     | 5580            | 10.27               | 10.50         |              |
|                      | 124     | 5620            | 10.28               | 10.50         |              |
|                      | 132     | 5660            | 10.32               | 10.50         |              |
|                      | 144     | 5720            | 10.43               | 10.80         |              |
| 802.11ax-HE40 MCS0   | 102     | 5510            | 10.56               | 10.80         | 100.00       |
|                      | 110     | 5550            | 10.46               | 10.80         |              |
|                      | 126     | 5630            | 10.43               | 10.80         |              |
|                      | 134     | 5670            | 10.26               | 10.50         |              |
|                      | 142     | 5710            | 10.25               | 10.50         |              |
| 802.11ax-HE80 MCS0   | 106     | 5530            | 10.54               | 10.80         | 100.00       |
|                      | 122     | 5610            | 10.31               | 10.50         |              |
|                      | 138     | 5690            | 10.31               | 10.50         |              |
| 802.11ax-HE160 MCS0  | 114     | 5570            | 10.27               | 10.50         | 100.00       |
| 802.11be-EHT20 MCS0  | 100     | 5500            | 10.55               | 10.80         | 100.00       |
|                      | 116     | 5580            | 10.33               | 10.50         |              |
|                      | 124     | 5620            | 10.35               | 10.50         |              |
|                      | 132     | 5660            | 10.37               | 10.50         |              |
|                      | 144     | 5720            | 10.52               | 10.80         |              |
| 802.11be-EHT40 MCS0  | 102     | 5510            | 10.50               | 10.80         | 100.00       |
|                      | 110     | 5550            | 10.51               | 10.80         |              |
|                      | 126     | 5630            | 10.44               | 10.80         |              |
|                      | 134     | 5670            | 10.30               | 10.50         |              |
|                      | 142     | 5710            | 10.32               | 10.50         |              |
| 802.11be-EHT80 MCS0  | 106     | 5530            | 10.59               | 10.80         | 100.00       |
|                      | 122     | 5610            | 10.41               | 10.80         |              |
|                      | 138     | 5690            | 10.36               | 10.50         |              |
| 802.11be-EHT160 MCS0 | 114     | 5570            | 10.24               | 10.50         | 100.00       |



【5.8GHz WLAN\_Ant 6\_Full Power】

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 17.27               | 17.50         | 98.97        |
|                     | 157     | 5785            | 19.02               | 19.50         |              |
|                     | 165     | 5825            | 17.21               | 17.50         |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 17.11               | 17.50         | 100.00       |
|                     | 157     | 5785            | 18.81               | 19.00         |              |
|                     | 165     | 5825            | 17.02               | 17.50         |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 17.16               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.02               | 17.50         |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 17.18               | 17.50         | 100.00       |
|                     | 157     | 5785            | 18.86               | 19.00         |              |
|                     | 165     | 5825            | 17.08               | 17.50         |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.20               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.08               | 17.50         |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.20               | 17.50         | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 17.25               | 17.50         | 100.00       |
|                     | 157     | 5785            | 18.92               | 19.00         |              |
|                     | 165     | 5825            | 17.10               | 17.50         |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 17.23               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.15               | 17.50         |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 17.27               | 17.50         | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 17.31               | 17.50         | 100.00       |
|                     | 157     | 5785            | 18.95               | 19.00         |              |
|                     | 165     | 5825            | 17.16               | 17.50         |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 17.26               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.22               | 17.50         |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 17.29               | 17.50         | 100.00       |

【5.8GHz WLAN\_Ant 6\_Standalone】

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 8.78                | 9.00          | 98.97        |
|                     | 157     | 5785            | 8.66                | 9.00          |              |
|                     | 165     | 5825            | 8.43                | 8.50          |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 8.67                | 9.00          | 100.00       |
|                     | 157     | 5785            | 8.49                | 8.50          |              |
|                     | 165     | 5825            | 8.32                | 8.50          |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 8.60                | 9.00          | 100.00       |
|                     | 159     | 5795            | 8.56                | 9.00          |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 8.69                | 9.00          | 100.00       |
|                     | 157     | 5785            | 8.62                | 9.00          |              |
|                     | 165     | 5825            | 8.33                | 8.50          |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 8.66                | 9.00          | 100.00       |
|                     | 159     | 5795            | 8.60                | 9.00          |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 8.57                | 9.00          | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 8.78                | 9.00          | 100.00       |
|                     | 157     | 5785            | 8.65                | 9.00          |              |
|                     | 165     | 5825            | 8.40                | 8.50          |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 8.72                | 9.00          | 100.00       |
|                     | 159     | 5795            | 8.63                | 9.00          |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 8.66                | 9.00          | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 8.85                | 9.00          | 100.00       |
|                     | 157     | 5785            | 8.66                | 9.00          |              |
|                     | 165     | 5825            | 8.44                | 8.50          |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 8.78                | 9.00          | 100.00       |
|                     | 159     | 5795            | 8.68                | 9.00          |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 8.75                | 9.00          | 100.00       |

**【5.8GHz WLAN\_Ant 6\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 6               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 7.42                | 7.50          | 98.97        |
|                     | 157     | 5785            | 7.30                | 7.50          |              |
|                     | 165     | 5825            | 6.85                | 7.00          |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 7.12                | 7.50          | 100.00       |
|                     | 157     | 5785            | 6.95                | 7.00          |              |
|                     | 165     | 5825            | 6.72                | 7.00          |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 7.03                | 7.50          | 100.00       |
|                     | 159     | 5795            | 7.00                | 7.50          |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 7.16                | 7.50          | 100.00       |
|                     | 157     | 5785            | 7.04                | 7.50          |              |
|                     | 165     | 5825            | 6.77                | 7.00          |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 7.07                | 7.50          | 100.00       |
|                     | 159     | 5795            | 7.09                | 7.50          |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 7.28                | 7.50          | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 7.19                | 7.50          | 100.00       |
|                     | 157     | 5785            | 7.11                | 7.50          |              |
|                     | 165     | 5825            | 6.81                | 7.00          |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 7.13                | 7.50          | 100.00       |
|                     | 159     | 5795            | 7.09                | 7.50          |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 7.13                | 7.50          | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 7.33                | 7.50          | 100.00       |
|                     | 157     | 5785            | 7.13                | 7.50          |              |
|                     | 165     | 5825            | 6.89                | 7.00          |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 7.26                | 7.50          | 100.00       |
|                     | 159     | 5795            | 7.16                | 7.50          |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 7.23                | 7.50          | 100.00       |

**【5.8GHz WLAN\_Ant 7\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 7               |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 17.47               | 17.50         | 99.32        |
|                     | 157     | 5785            | 19.36               | 19.50         |              |
|                     | 165     | 5825            | 17.33               | 17.50         |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 17.27               | 17.50         | 100.00       |
|                     | 157     | 5785            | 19.19               | 19.50         |              |
|                     | 165     | 5825            | 17.17               | 17.50         |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 17.36               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.28               | 17.50         |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 17.31               | 17.50         | 100.00       |
|                     | 157     | 5785            | 19.21               | 19.50         |              |
|                     | 165     | 5825            | 17.19               | 17.50         |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 17.39               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.32               | 17.50         |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 17.34               | 17.50         | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 17.36               | 17.50         | 100.00       |
|                     | 157     | 5785            | 19.24               | 19.50         |              |
|                     | 165     | 5825            | 17.24               | 17.50         |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 17.42               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.35               | 17.50         |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 17.40               | 17.50         | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 17.38               | 17.50         | 100.00       |
|                     | 157     | 5785            | 19.31               | 19.50         |              |
|                     | 165     | 5825            | 17.28               | 17.50         |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 17.46               | 17.50         | 100.00       |
|                     | 159     | 5795            | 17.38               | 17.50         |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 17.43               | 17.50         | 100.00       |



【5.8GHz WLAN\_Ant 7\_Standalone】

| Mode                | Channel | Frequency<br>(MHz) | Ant 7                     |                  |                 |
|---------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                     |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps       | 149     | 5745               | 11.38                     | 11.50            | 99.32           |
|                     | 157     | 5785               | 11.34                     | 11.50            |                 |
|                     | 165     | 5825               | 11.38                     | 11.50            |                 |
| 802.11n-HT20 MCS0   | 149     | 5745               | 11.25                     | 11.50            | 100.00          |
|                     | 157     | 5785               | 11.18                     | 11.50            |                 |
|                     | 165     | 5825               | 11.16                     | 11.50            |                 |
| 802.11n-HT40 MCS0   | 151     | 5755               | 11.19                     | 11.50            | 100.00          |
|                     | 159     | 5795               | 11.14                     | 11.50            |                 |
| 802.11ac-VHT20 MCS0 | 149     | 5745               | 11.32                     | 11.50            | 100.00          |
|                     | 157     | 5785               | 11.22                     | 11.50            |                 |
|                     | 165     | 5825               | 11.19                     | 11.50            |                 |
| 802.11ac-VHT40 MCS0 | 151     | 5755               | 11.21                     | 11.50            | 100.00          |
|                     | 159     | 5795               | 11.25                     | 11.50            |                 |
| 802.11ac-VHT80 MCS0 | 155     | 5775               | 11.35                     | 11.50            | 100.00          |
| 802.11ax-HE20 MCS0  | 149     | 5745               | 11.34                     | 11.50            | 100.00          |
|                     | 157     | 5785               | 11.25                     | 11.50            |                 |
|                     | 165     | 5825               | 11.30                     | 11.50            |                 |
| 802.11ax-HE40 MCS0  | 151     | 5755               | 11.28                     | 11.50            | 100.00          |
|                     | 159     | 5795               | 11.30                     | 11.50            |                 |
| 802.11ax-HE80 MCS0  | 155     | 5775               | 11.29                     | 11.50            | 100.00          |
| 802.11be-EHT20 MCS0 | 149     | 5745               | 11.31                     | 11.50            | 100.00          |
|                     | 157     | 5785               | 11.39                     | 11.50            |                 |
|                     | 165     | 5825               | 11.35                     | 11.50            |                 |
| 802.11be-EHT40 MCS0 | 151     | 5755               | 11.36                     | 11.50            | 100.00          |
|                     | 159     | 5795               | 11.38                     | 11.50            |                 |
| 802.11be-EHT80 MCS0 | 155     | 5775               | 11.31                     | 11.50            | 100.00          |

【5.8GHz WLAN\_Ant 7\_Simultaneous】

| Mode                | Channel | Frequency<br>(MHz) | Ant 7                     |                  |                 |
|---------------------|---------|--------------------|---------------------------|------------------|-----------------|
|                     |         |                    | Average<br>Power<br>(dBm) | Tune-Up<br>Limit | Duty<br>Cycle % |
| 802.11a 6Mbps       | 149     | 5745               | 9.81                      | 10.00            | 99.32           |
|                     | 157     | 5785               | 9.79                      | 10.00            |                 |
|                     | 165     | 5825               | 9.80                      | 10.00            |                 |
| 802.11n-HT20 MCS0   | 149     | 5745               | 9.75                      | 10.00            | 100.00          |
|                     | 157     | 5785               | 9.63                      | 10.00            |                 |
|                     | 165     | 5825               | 9.51                      | 10.00            |                 |
| 802.11n-HT40 MCS0   | 151     | 5755               | 9.55                      | 10.00            | 100.00          |
|                     | 159     | 5795               | 9.57                      | 10.00            |                 |
| 802.11ac-VHT20 MCS0 | 149     | 5745               | 9.78                      | 10.00            | 100.00          |
|                     | 157     | 5785               | 9.65                      | 10.00            |                 |
|                     | 165     | 5825               | 9.55                      | 10.00            |                 |
| 802.11ac-VHT40 MCS0 | 151     | 5755               | 9.61                      | 10.00            | 100.00          |
|                     | 159     | 5795               | 9.66                      | 10.00            |                 |
| 802.11ac-VHT80 MCS0 | 155     | 5775               | 9.77                      | 10.00            | 100.00          |
| 802.11ax-HE20 MCS0  | 149     | 5745               | 9.79                      | 10.00            | 100.00          |
|                     | 157     | 5785               | 9.74                      | 10.00            |                 |
|                     | 165     | 5825               | 9.67                      | 10.00            |                 |
| 802.11ax-HE40 MCS0  | 151     | 5755               | 9.72                      | 10.00            | 100.00          |
|                     | 159     | 5795               | 9.78                      | 10.00            |                 |
| 802.11ax-HE80 MCS0  | 155     | 5775               | 9.73                      | 10.00            | 100.00          |
| 802.11be-EHT20 MCS0 | 149     | 5745               | 9.75                      | 10.00            | 100.00          |
|                     | 157     | 5785               | 9.76                      | 10.00            |                 |
|                     | 165     | 5825               | 9.76                      | 10.00            |                 |
| 802.11be-EHT40 MCS0 | 151     | 5755               | 9.75                      | 10.00            | 100.00          |
|                     | 159     | 5795               | 9.81                      | 10.00            |                 |
| 802.11be-EHT80 MCS0 | 155     | 5775               | 9.74                      | 10.00            | 100.00          |

**【5.8GHz WLAN\_Ant 6+7\_Full Power】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 20.38               | 20.50         | 99.32        |
|                     | 157     | 5785            | 22.21               | 22.50         |              |
|                     | 165     | 5825            | 20.28               | 20.50         |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 20.20               | 20.50         | 100.00       |
|                     | 157     | 5785            | 22.01               | 22.30         |              |
|                     | 165     | 5825            | 20.11               | 20.50         |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 20.27               | 20.50         | 100.00       |
|                     | 159     | 5795            | 20.16               | 20.50         |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 20.26               | 20.50         | 100.00       |
|                     | 157     | 5785            | 22.05               | 22.30         |              |
|                     | 165     | 5825            | 20.15               | 20.50         |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 20.31               | 20.50         | 100.00       |
|                     | 159     | 5795            | 20.21               | 20.50         |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 20.28               | 20.50         | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 20.32               | 20.50         | 100.00       |
|                     | 157     | 5785            | 22.09               | 22.30         |              |
|                     | 165     | 5825            | 20.18               | 20.50         |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 20.34               | 20.50         | 100.00       |
|                     | 159     | 5795            | 20.26               | 20.50         |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 20.35               | 20.50         | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 20.36               | 20.50         | 100.00       |
|                     | 157     | 5785            | 22.14               | 22.30         |              |
|                     | 165     | 5825            | 20.23               | 20.50         |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 20.37               | 20.50         | 100.00       |
|                     | 159     | 5795            | 20.31               | 20.50         |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 20.37               | 20.50         | 100.00       |

**【5.8GHz WLAN\_Ant 6+7\_Standalone】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 13.28               | 13.40         | 99.32        |
|                     | 157     | 5785            | 13.21               | 13.40         |              |
|                     | 165     | 5825            | 13.16               | 13.30         |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 13.16               | 13.40         | 100.00       |
|                     | 157     | 5785            | 13.05               | 13.30         |              |
|                     | 165     | 5825            | 12.98               | 13.30         |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 13.10               | 13.40         | 100.00       |
|                     | 159     | 5795            | 13.05               | 13.40         |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 13.21               | 13.40         | 100.00       |
|                     | 157     | 5785            | 13.12               | 13.40         |              |
|                     | 165     | 5825            | 13.00               | 13.30         |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 13.13               | 13.40         | 100.00       |
|                     | 159     | 5795            | 13.13               | 13.40         |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 13.19               | 13.40         | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 13.26               | 13.40         | 100.00       |
|                     | 157     | 5785            | 13.15               | 13.40         |              |
|                     | 165     | 5825            | 13.10               | 13.30         |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 13.20               | 13.40         | 100.00       |
|                     | 159     | 5795            | 13.18               | 13.40         |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 13.18               | 13.40         | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 13.26               | 13.40         | 100.00       |
|                     | 157     | 5785            | 13.25               | 13.40         |              |
|                     | 165     | 5825            | 13.14               | 13.30         |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 13.27               | 13.40         | 100.00       |
|                     | 159     | 5795            | 13.25               | 13.40         |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 13.23               | 13.40         | 100.00       |

**【5.8GHz WLAN\_Ant 6+7\_Simultaneous】**

| Mode                | Channel | Frequency (MHz) | Ant 6+7             |               |              |
|---------------------|---------|-----------------|---------------------|---------------|--------------|
|                     |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| 802.11a 6Mbps       | 149     | 5745            | 11.79               | 11.90         | 99.32        |
|                     | 157     | 5785            | 11.73               | 11.90         |              |
|                     | 165     | 5825            | 11.58               | 11.80         |              |
| 802.11n-HT20 MCS0   | 149     | 5745            | 11.64               | 11.90         | 100.00       |
|                     | 157     | 5785            | 11.50               | 11.80         |              |
|                     | 165     | 5825            | 11.35               | 11.80         |              |
| 802.11n-HT40 MCS0   | 151     | 5755            | 11.48               | 11.90         | 100.00       |
|                     | 159     | 5795            | 11.48               | 11.90         |              |
| 802.11ac-VHT20 MCS0 | 149     | 5745            | 11.67               | 11.90         | 100.00       |
|                     | 157     | 5785            | 11.55               | 11.90         |              |
|                     | 165     | 5825            | 11.39               | 11.80         |              |
| 802.11ac-VHT40 MCS0 | 151     | 5755            | 11.53               | 11.90         | 100.00       |
|                     | 159     | 5795            | 11.57               | 11.90         |              |
| 802.11ac-VHT80 MCS0 | 155     | 5775            | 11.71               | 11.90         | 100.00       |
| 802.11ax-HE20 MCS0  | 149     | 5745            | 11.69               | 11.90         | 100.00       |
|                     | 157     | 5785            | 11.63               | 11.90         |              |
|                     | 165     | 5825            | 11.48               | 11.80         |              |
| 802.11ax-HE40 MCS0  | 151     | 5755            | 11.63               | 11.90         | 100.00       |
|                     | 159     | 5795            | 11.65               | 11.90         |              |
| 802.11ax-HE80 MCS0  | 155     | 5775            | 11.63               | 11.90         | 100.00       |
| 802.11be-EHT20 MCS0 | 149     | 5745            | 11.72               | 11.90         | 100.00       |
|                     | 157     | 5785            | 11.65               | 11.90         |              |
|                     | 165     | 5825            | 11.57               | 11.80         |              |
| 802.11be-EHT40 MCS0 | 151     | 5755            | 11.69               | 11.90         | 100.00       |
|                     | 159     | 5795            | 11.69               | 11.90         |              |
| 802.11be-EHT80 MCS0 | 155     | 5775            | 11.67               | 11.90         | 100.00       |

| <WLAN 6GHz> standard client - Full Power |                            |                      |         |                 |                          |               |                          |               |                          |               |              |
|------------------------------------------|----------------------------|----------------------|---------|-----------------|--------------------------|---------------|--------------------------|---------------|--------------------------|---------------|--------------|
|                                          | Band                       | Mode                 | Channel | Frequency (MHz) | Ant 6                    |               | Ant 7                    |               | Ant 6+7                  |               | Duty Cycle % |
|                                          |                            |                      |         |                 | For Default / Full Power | Tune-Up Limit | For Default / Full Power | Tune-Up Limit | For Default / Full Power | Tune-Up Limit |              |
| WLAN 6GHz                                | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955            | 18.98                    | 19.00         | 19.08                    | 19.50         | 22.04                    | 22.30         | 99.32        |
|                                          |                            |                      | 49      | 6195            | 19.32                    | 19.50         | 19.53                    | 20.00         | 22.44                    | 22.80         |              |
|                                          |                            |                      | 93      | 6415            | 18.81                    | 19.00         | 19.21                    | 19.50         | 22.03                    | 22.30         |              |
|                                          |                            | 802.11ax-HE20 MCS0   | 1       | 5955            | 18.88                    | 19.00         | 18.97                    | 19.00         | 21.94                    | 22.00         | 100.00       |
|                                          |                            |                      | 49      | 6195            | 18.83                    | 19.00         | 19.06                    | 19.50         | 21.96                    | 22.30         |              |
|                                          |                            |                      | 93      | 6415            | 18.78                    | 19.00         | 19.14                    | 19.50         | 21.97                    | 22.30         |              |
|                                          |                            | 802.11ax-HE40 MCS0   | 3       | 5965            | 18.88                    | 19.00         | 18.91                    | 19.00         | 21.91                    | 22.00         | 100.00       |
|                                          |                            |                      | 51      | 6205            | 18.82                    | 19.00         | 19.11                    | 19.50         | 21.98                    | 22.30         |              |
|                                          |                            |                      | 91      | 6405            | 18.73                    | 19.00         | 19.08                    | 19.50         | 21.92                    | 22.30         |              |
|                                          |                            | 802.11ax-HE80 MCS0   | 7       | 5985            | 18.61                    | 19.00         | 18.44                    | 18.50         | 21.54                    | 21.80         | 100.00       |
|                                          |                            |                      | 55      | 6225            | 18.59                    | 19.00         | 18.71                    | 19.00         | 21.66                    | 22.00         |              |
|                                          |                            |                      | 87      | 6385            | 18.58                    | 19.00         | 18.53                    | 19.00         | 21.57                    | 22.00         |              |
|                                          |                            | 802.11ax-HE160 MCS0  | 15      | 6025            | 17.61                    | 18.00         | 16.98                    | 17.00         | 20.32                    | 20.50         | 100.00       |
|                                          |                            |                      | 47      | 6185            | 17.19                    | 17.50         | 17.20                    | 17.50         | 20.21                    | 20.50         |              |
|                                          |                            | 802.11be-EHT20 MCS0  | 1       | 5955            | 18.93                    | 19.00         | 19.03                    | 19.50         | 21.99                    | 22.30         | 100.00       |
|                                          |                            |                      | 49      | 6195            | 18.87                    | 19.00         | 19.10                    | 19.50         | 22.00                    | 22.30         |              |
|                                          |                            |                      | 93      | 6415            | 18.82                    | 19.00         | 19.18                    | 19.50         | 22.01                    | 22.30         |              |
|                                          |                            | 802.11be-EHT40 MCS0  | 3       | 5965            | 18.91                    | 19.00         | 18.94                    | 19.00         | 21.94                    | 22.00         | 100.00       |
|                                          |                            |                      | 51      | 6205            | 18.85                    | 19.00         | 19.16                    | 19.50         | 22.02                    | 22.30         |              |
|                                          |                            |                      | 91      | 6405            | 18.77                    | 19.00         | 19.12                    | 19.50         | 21.96                    | 22.30         |              |
|                                          |                            | 802.11be-EHT80 MCS0  | 7       | 5985            | 18.65                    | 19.00         | 18.47                    | 18.50         | 21.57                    | 21.80         | 100.00       |
|                                          |                            |                      | 55      | 6225            | 18.62                    | 19.00         | 18.74                    | 19.00         | 21.69                    | 22.00         |              |
|                                          |                            |                      | 87      | 6385            | 18.63                    | 19.00         | 18.57                    | 19.00         | 21.61                    | 22.00         |              |
|                                          |                            | 802.11be-EHT160 MCS0 | 15      | 6025            | 17.65                    | 18.00         | 17.02                    | 17.50         | 20.36                    | 20.80         | 100.00       |
|                                          |                            |                      | 47      | 6185            | 17.24                    | 17.50         | 17.23                    | 17.50         | 20.25                    | 20.50         |              |
|                                          |                            |                      | 79      | 6345            | 17.07                    | 17.50         | 17.03                    | 17.50         | 20.06                    | 20.50         |              |
|                                          |                            | 802.11be-EHT320 MCS0 | 31      | 6105            | 18.81                    | 19.00         | 18.44                    | 18.50         | 21.64                    | 21.80         | 100.00       |
|                                          |                            |                      | 63      | 6265            | 18.72                    | 19.00         | 18.69                    | 19.00         | 21.72                    | 22.00         |              |
|                                          |                            |                      | 95      | 6425            | 18.48                    | 18.50         | 18.78                    | 19.00         | 21.64                    | 21.80         |              |
|                                          | UNII 7<br>(6.525-6.885GHz) | 802.11a 6Mbps        | 117     | 6535            | 19.36                    | 19.50         | 19.19                    | 19.50         | 22.29                    | 22.50         | 99.32        |
|                                          |                            |                      | 149     | 6695            | 19.01                    | 19.50         | 19.66                    | 20.00         | 22.36                    | 22.80         |              |
|                                          |                            |                      | 173     | 6815            | 18.69                    | 19.00         | 19.28                    | 19.50         | 22.01                    | 22.30         |              |
|                                          |                            | 802.11ax-HE20 MCS0   | 117     | 6535            | 18.97                    | 19.00         | 18.95                    | 19.00         | 21.97                    | 22.00         | 100.00       |
|                                          |                            |                      | 149     | 6695            | 18.92                    | 19.00         | 19.49                    | 19.50         | 22.22                    | 22.30         |              |
|                                          |                            |                      | 173     | 6815            | 19.62                    | 20.00         | 19.18                    | 19.50         | 22.42                    | 22.80         |              |
|                                          |                            | 802.11ax-HE40 MCS0   | 123     | 6565            | 19.00                    | 19.50         | 19.12                    | 19.50         | 22.07                    | 22.50         | 100.00       |



# FCC SAR Test Report

Report No. : FA551202

|  |  |                      |     |      |       |       |       |       |       |       |        |
|--|--|----------------------|-----|------|-------|-------|-------|-------|-------|-------|--------|
|  |  |                      | 147 | 6685 | 18.99 | 19.00 | 19.45 | 19.50 | 22.24 | 22.30 |        |
|  |  |                      | 179 | 6845 | 18.68 | 19.00 | 19.19 | 19.50 | 21.95 | 22.30 |        |
|  |  | 802.11ax-HE80 MCS0   | 135 | 6625 | 18.20 | 18.50 | 18.81 | 19.00 | 21.53 | 21.80 | 100.00 |
|  |  |                      | 151 | 6705 | 18.38 | 18.50 | 18.92 | 19.00 | 21.67 | 21.80 |        |
|  |  | 802.11ax-HE160 MCS0  | 167 | 6785 | 18.07 | 18.50 | 18.83 | 19.00 | 21.48 | 21.80 | 100.00 |
|  |  |                      | 143 | 6665 | 17.40 | 17.50 | 17.49 | 17.50 | 20.46 | 20.50 |        |
|  |  | 802.11be-EHT20 MCS0  | 117 | 6535 | 19.02 | 19.50 | 18.99 | 19.00 | 22.02 | 22.30 | 100.00 |
|  |  |                      | 149 | 6695 | 18.96 | 19.00 | 19.53 | 20.00 | 22.26 | 22.50 |        |
|  |  | 802.11be-EHT40 MCS0  | 173 | 6815 | 18.66 | 19.00 | 19.21 | 19.50 | 21.95 | 22.30 | 100.00 |
|  |  |                      | 123 | 6565 | 19.04 | 19.50 | 19.16 | 19.50 | 22.11 | 22.50 |        |
|  |  | 802.11be-EHT80 MCS0  | 147 | 6685 | 19.02 | 19.50 | 19.51 | 20.00 | 22.28 | 22.80 | 100.00 |
|  |  |                      | 179 | 6845 | 18.72 | 19.00 | 19.21 | 19.50 | 21.98 | 22.30 |        |
|  |  | 802.11be-EHT160 MCS0 | 135 | 6625 | 18.24 | 18.50 | 18.85 | 19.00 | 21.57 | 21.80 | 100.00 |
|  |  |                      | 151 | 6705 | 18.41 | 18.50 | 18.95 | 19.00 | 21.70 | 21.80 |        |
|  |  | 802.11be-EHT320 MCS0 | 167 | 6785 | 18.10 | 18.50 | 18.88 | 19.00 | 21.52 | 21.80 | 100.00 |
|  |  | 802.11be-EHT320 MCS0 | 143 | 6665 | 16.99 | 17.00 | 17.54 | 18.00 | 20.28 | 20.50 | 100.00 |
|  |  | 802.11be-EHT320 MCS0 | 159 | 6745 | 15.26 | 15.50 | 16.17 | 16.50 | 18.75 | 19.00 | 100.00 |

| <WLAN 6GHz > indoor client - Full Power |                            |                      |         |                 |                     |               |                     |               |                     |               |              |
|-----------------------------------------|----------------------------|----------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                                         | Band                       | Mode                 | Channel | Frequency (MHz) | Ant 6               |               | Ant 7               |               | Ant 6+7             |               | Duty Cycle % |
|                                         |                            |                      |         |                 | For Default         | Full Power    | For Default         | Full Power    | For Default         | Full Power    |              |
|                                         |                            |                      |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |              |
| WLAN 6GHz                               | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955            | 4.24                | 4.50          | 4.51                | 5.00          | 7.39                | 7.80          | 99.32        |
|                                         |                            |                      | 49      | 6195            | 4.66                | 5.00          | 4.80                | 5.00          | 7.74                | 8.00          |              |
|                                         |                            |                      | 93      | 6415            | 4.43                | 4.50          | 4.71                | 5.00          | 7.58                | 7.80          |              |
|                                         |                            | 802.11ax-HE20 MCS0   | 1       | 5955            | 7.17                | 7.50          | 7.83                | 8.00          | 10.52               | 10.80         | 100.00       |
|                                         |                            |                      | 49      | 6195            | 7.49                | 7.50          | 7.82                | 8.00          | 10.67               | 10.80         |              |
|                                         |                            |                      | 93      | 6415            | 6.87                | 7.00          | 4.34                | 4.50          | 7.21                | 8.90          |              |
|                                         |                            | 802.11ax-HE40 MCS0   | 3       | 5965            | 10.47               | 10.50         | 10.42               | 10.50         | 13.46               | 13.50         | 100.00       |
|                                         |                            |                      | 51      | 6205            | 10.21               | 10.50         | 10.76               | 11.00         | 13.50               | 13.80         |              |
|                                         |                            |                      | 91      | 6405            | 10.18               | 10.50         | 10.51               | 11.00         | 13.36               | 13.80         |              |
|                                         |                            | 802.11ax-HE80 MCS0   | 7       | 5985            | 13.65               | 14.00         | 13.44               | 13.50         | 16.56               | 16.80         | 100.00       |
|                                         |                            |                      | 55      | 6225            | 13.21               | 13.50         | 13.62               | 14.00         | 16.43               | 16.80         |              |
|                                         |                            |                      | 87      | 6385            | 13.03               | 13.50         | 13.41               | 13.50         | 16.23               | 16.50         |              |
|                                         |                            | 802.11ax-HE160 MCS0  | 15      | 6025            | 16.13               | 16.50         | 15.78               | 16.00         | 18.97               | 19.30         | 100.00       |
|                                         |                            |                      | 47      | 6185            | 16.29               | 16.50         | 16.42               | 16.50         | 19.37               | 19.50         |              |
|                                         |                            |                      | 1       | 5955            | 7.19                | 7.50          | 7.86                | 8.00          | 10.55               | 10.80         | 100.00       |
|                                         |                            | 802.11be-EHT20 MCS0  | 49      | 6195            | 7.53                | 8.00          | 7.85                | 8.00          | 10.70               | 11.00         |              |
|                                         |                            |                      | 93      | 6415            | 6.92                | 7.00          | 7.89                | 8.00          | 10.44               | 10.50         |              |
|                                         |                            | 802.11be-EHT40 MCS0  | 3       | 5965            | 10.49               | 10.50         | 10.46               | 10.50         | 13.49               | 13.50         | 100.00       |
|                                         |                            |                      | 51      | 6205            | 10.23               | 10.50         | 10.78               | 11.00         | 13.52               | 13.80         |              |
|                                         |                            |                      | 91      | 6405            | 10.22               | 10.50         | 10.54               | 11.00         | 13.39               | 13.80         |              |
|                                         |                            | 802.11be-EHT80 MCS0  | 7       | 5985            | 13.67               | 14.00         | 13.45               | 13.50         | 16.57               | 16.80         | 100.00       |
|                                         |                            |                      | 55      | 6225            | 13.23               | 13.50         | 13.64               | 14.00         | 16.45               | 16.80         |              |
|                                         |                            |                      | 87      | 6385            | 13.06               | 13.50         | 13.45               | 13.50         | 16.27               | 16.50         |              |
|                                         |                            | 802.11be-EHT160 MCS0 | 15      | 6025            | 16.15               | 16.50         | 15.81               | 16.00         | 18.99               | 19.30         | 100.00       |
|                                         |                            |                      | 47      | 6185            | 16.32               | 16.50         | 16.44               | 16.50         | 19.39               | 19.50         |              |
|                                         |                            |                      | 79      | 6345            | 12.70               | 13.00         | 16.36               | 16.50         | 19.23               | 18.10         |              |
|                                         |                            | 802.11be-EHT320 MCS0 | 31      | 6105            | 18.81               | 19.00         | 18.44               | 18.50         | 21.64               | 21.80         | 100.00       |
|                                         |                            |                      | 63      | 6265            | 18.72               | 19.00         | 18.69               | 19.00         | 21.72               | 22.00         |              |
|                                         |                            |                      | 95      | 6425            | 18.48               | 18.50         | 18.78               | 19.00         | 21.64               | 21.80         |              |
|                                         | UNII 6<br>(6.425-6.525GHz) | 802.11a 6Mbps        | 97      | 6435            | 3.92                | 4.00          | 4.39                | 4.50          | 7.17                | 7.30          | 99.32        |
|                                         |                            |                      | 105     | 6475            | 4.43                | 4.50          | 4.75                | 5.00          | 7.61                | 7.80          |              |
|                                         |                            |                      | 113     | 6515            | 4.60                | 5.00          | 4.57                | 5.00          | 7.60                | 8.00          |              |
|                                         |                            | 802.11ax-HE20 MCS0   | 97      | 6435            | 7.31                | 7.50          | 8.16                | 8.50          | 10.77               | 11.00         | 100.00       |
|                                         |                            |                      | 105     | 6475            | 7.41                | 7.50          | 8.11                | 8.50          | 10.78               | 11.00         |              |
|                                         |                            |                      | 113     | 6515            | 7.45                | 7.50          | 8.23                | 8.50          | 10.87               | 11.00         |              |
|                                         |                            | 802.11ax-HE40 MCS0   | 99      | 6445            | 10.65               | 11.00         | 10.85               | 11.00         | 13.76               | 14.00         | 100.00       |
|                                         |                            |                      | 115     | 6525            | 10.94               | 11.00         | 10.76               | 11.00         | 13.86               | 14.00         |              |
|                                         |                            |                      | 103     | 6465            | 13.56               | 14.00         | 13.82               | 14.00         | 16.70               | 17.00         |              |
|                                         |                            | 802.11ax-HE80 MCS0   | 119     | 6545            | 13.57               | 14.00         | 13.86               | 14.00         | 16.73               | 17.00         | 100.00       |
|                                         |                            |                      | 111     | 6505            | 16.28               | 16.50         | 16.34               | 16.50         | 19.32               | 19.50         |              |
|                                         |                            |                      | 97      | 6435            | 7.39                | 7.50          | 8.22                | 8.50          | 10.84               | 11.00         | 100.00       |
|                                         |                            | 802.11be-EHT20 MCS0  | 105     | 6475            | 7.47                | 7.50          | 8.19                | 8.50          | 10.86               | 11.00         |              |
|                                         |                            |                      | 113     | 6515            | 7.51                | 8.00          | 8.32                | 8.50          | 10.94               | 11.30         |              |
|                                         |                            | 802.11be-EHT40 MCS0  | 99      | 6445            | 10.74               | 11.00         | 10.91               | 11.00         | 13.84               | 14.00         | 100.00       |
|                                         |                            |                      | 107     | 6485            | 10.84               | 11.00         | 10.99               | 11.00         | 13.93               | 14.00         |              |
|                                         |                            |                      | 115     | 6525            | 11.03               | 11.50         | 10.85               | 11.00         | 13.95               | 14.30         |              |
|                                         |                            | 802.11be-EHT80 MCS0  | 103     | 6465            | 13.61               | 14.00         | 13.88               | 14.00         | 16.76               | 17.00         | 100.00       |
|                                         |                            |                      | 119     | 6545            | 13.63               | 14.00         | 13.90               | 14.00         | 16.78               | 17.00         |              |
|                                         |                            |                      | 111     | 6505            | 16.32               | 16.50         | 16.41               | 16.50         | 19.38               | 19.50         |              |
|                                         |                            | 802.11be-EHT320 MCS0 | 127     | 6585            | 18.53               | 19.00         | 18.78               | 19.00         | 21.67               | 22.00         | 100.00       |
|                                         | UNII 7                     | 802.11a 6Mbps        | 117     | 6535            | 4.58                | 5.00          | 4.71                | 5.00          | 7.66                | 8.00          | 99.32        |



# FCC SAR Test Report

Report No. : FA551202

|  |                            |                      |     |      |       |       |       |       |       |       |        |
|--|----------------------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|--------|
|  | (6.525-6.885GHz)           |                      | 149 | 6695 | 4.76  | 5.00  | 5.15  | 5.50  | 7.97  | 8.30  |        |
|  |                            |                      | 173 | 6815 | 4.46  | 4.50  | 5.32  | 5.50  | 7.92  | 8.00  |        |
|  |                            |                      | 117 | 6535 | 7.41  | 7.50  | 8.28  | 8.50  | 10.88 | 11.00 |        |
|  |                            | 802.11ax-HE20 MCS0   | 149 | 6695 | 7.19  | 7.50  | 8.22  | 8.50  | 10.75 | 11.00 | 100.00 |
|  |                            |                      | 173 | 6815 | 8.09  | 8.50  | 8.65  | 9.00  | 11.39 | 11.80 |        |
|  |                            |                      | 123 | 6565 | 10.77 | 11.00 | 10.91 | 11.00 | 13.85 | 14.00 |        |
|  |                            | 802.11ax-HE40 MCS0   | 147 | 6685 | 10.69 | 11.00 | 11.30 | 11.50 | 14.02 | 14.30 | 100.00 |
|  |                            |                      | 179 | 6845 | 10.93 | 11.00 | 11.61 | 12.00 | 14.29 | 14.50 |        |
|  |                            |                      | 135 | 6625 | 13.48 | 13.50 | 14.14 | 14.50 | 16.83 | 17.00 |        |
|  |                            | 802.11ax-HE80 MCS0   | 151 | 6705 | 13.46 | 13.50 | 14.29 | 14.50 | 16.91 | 17.00 | 100.00 |
|  |                            |                      | 167 | 6785 | 13.97 | 14.00 | 14.71 | 15.00 | 17.37 | 17.50 |        |
|  |                            |                      | 143 | 6665 | 16.01 | 16.50 | 16.58 | 17.00 | 19.31 | 19.80 |        |
|  |                            | 802.11be-EHT20 MCS0  | 117 | 6535 | 7.49  | 7.50  | 8.35  | 8.50  | 10.95 | 11.00 | 100.00 |
|  |                            |                      | 149 | 6695 | 7.28  | 7.50  | 8.31  | 8.50  | 10.84 | 11.00 |        |
|  |                            |                      | 173 | 6815 | 8.14  | 8.50  | 8.75  | 9.00  | 11.47 | 11.80 |        |
|  |                            | 802.11be-EHT40 MCS0  | 123 | 6565 | 10.81 | 11.00 | 10.94 | 11.00 | 13.89 | 14.00 | 100.00 |
|  |                            |                      | 147 | 6685 | 10.72 | 11.00 | 11.34 | 11.50 | 14.05 | 14.30 |        |
|  |                            |                      | 179 | 6845 | 10.99 | 11.00 | 11.64 | 12.00 | 14.34 | 14.50 |        |
|  |                            | 802.11be-EHT80 MCS0  | 135 | 6625 | 13.51 | 14.00 | 14.18 | 14.50 | 16.87 | 17.30 | 100.00 |
|  |                            |                      | 151 | 6705 | 13.48 | 13.50 | 14.32 | 14.50 | 16.93 | 17.00 |        |
|  |                            |                      | 167 | 6785 | 13.99 | 14.00 | 14.79 | 15.00 | 17.42 | 17.50 |        |
|  |                            | 802.11be-EHT160 MCS0 | 143 | 6665 | 16.05 | 16.50 | 16.63 | 17.00 | 19.36 | 19.80 | 100.00 |
|  |                            | 802.11be-EHT320 MCS0 | 159 | 6745 | 17.88 | 18.00 | 18.74 | 19.00 | 21.34 | 21.50 | 100.00 |
|  | UNII 8<br>(6.885-7.125GHz) | 802.11a 6Mbps        | 189 | 6895 | 5.26  | 5.50  | 5.65  | 6.00  | 8.47  | 8.80  | 99.32  |
|  |                            |                      | 209 | 6995 | 3.09  | 3.50  | 3.38  | 3.50  | 6.25  | 6.50  |        |
|  |                            |                      | 229 | 7095 | 3.53  | 4.00  | 3.51  | 4.00  | 6.53  | 7.00  |        |
|  |                            |                      | 233 | 7115 | 3.05  | 3.50  | 3.68  | 4.00  | 6.39  | 6.80  |        |
|  |                            | 802.11ax-HE20 MCS0   | 189 | 6895 | 8.24  | 8.50  | 8.58  | 9.00  | 11.42 | 11.80 | 100.00 |
|  |                            |                      | 209 | 6995 | 6.69  | 7.00  | 7.29  | 7.50  | 10.01 | 10.30 |        |
|  |                            |                      | 229 | 7095 | 6.24  | 6.50  | 7.09  | 7.50  | 9.70  | 10.00 |        |
|  |                            |                      | 233 | 7115 | -2.28 | -2.00 | -2.29 | -2.00 | 0.73  | 1.00  |        |
|  |                            | 802.11ax-HE40 MCS0   | 195 | 6925 | 11.17 | 11.50 | 11.55 | 12.00 | 14.37 | 14.80 | 100.00 |
|  |                            |                      | 211 | 7005 | 9.42  | 9.50  | 9.51  | 10.00 | 12.48 | 12.80 |        |
|  |                            |                      | 227 | 7085 | 9.45  | 9.50  | 9.62  | 10.00 | 12.55 | 12.80 |        |
|  |                            |                      | 199 | 6945 | 14.13 | 14.50 | 14.41 | 14.50 | 17.28 | 17.50 |        |
|  |                            | 802.11ax-HE80 MCS0   | 215 | 7025 | 12.88 | 13.00 | 12.89 | 13.00 | 15.90 | 16.00 | 100.00 |
|  |                            | 802.11ax-HE160 MCS0  | 207 | 6985 | 15.41 | 15.50 | 15.32 | 15.50 | 18.38 | 18.50 | 100.00 |
|  |                            | 802.11be-EHT20 MCS0  | 189 | 6895 | 8.32  | 8.50  | 8.64  | 9.00  | 11.49 | 11.80 | 100.00 |
|  |                            |                      | 209 | 6995 | 6.76  | 7.00  | 7.37  | 7.50  | 10.09 | 10.30 |        |
|  |                            |                      | 229 | 7095 | 6.36  | 6.50  | 7.16  | 7.50  | 9.79  | 10.00 |        |
|  |                            |                      | 233 | 7115 | -2.22 | -2.00 | -2.17 | -2.00 | 0.82  | 1.00  |        |
|  |                            | 802.11be-EHT40 MCS0  | 195 | 6925 | 11.22 | 11.50 | 11.62 | 12.00 | 14.43 | 14.80 | 100.00 |
|  |                            |                      | 211 | 7005 | 9.47  | 9.50  | 9.55  | 10.00 | 12.52 | 12.80 |        |
|  |                            |                      | 227 | 7085 | 9.49  | 9.50  | 9.67  | 10.00 | 12.59 | 12.80 |        |
|  |                            |                      | 199 | 6945 | 14.15 | 14.50 | 14.45 | 14.50 | 17.31 | 17.50 |        |
|  |                            | 802.11be-EHT80 MCS0  | 215 | 7025 | 12.94 | 13.00 | 12.93 | 13.00 | 15.95 | 16.00 | 100.00 |
|  |                            | 802.11be-EHT160 MCS0 | 207 | 6985 | 15.46 | 15.50 | 15.37 | 15.50 | 18.43 | 18.50 | 100.00 |
|  |                            | 802.11be-EHT320 MCS0 | 191 | 6905 | 17.98 | 18.00 | 18.92 | 19.00 | 21.49 | 21.50 | 100.00 |

| <WLAN 6GHz> standard client - Standalone |                            |                     |         |                 |                                  |               |                                  |               |                                    |               |              |
|------------------------------------------|----------------------------|---------------------|---------|-----------------|----------------------------------|---------------|----------------------------------|---------------|------------------------------------|---------------|--------------|
| WLAN 6GHz                                | Band                       | Mode                | Channel | Frequency (MHz) | Ant 6 Standalone non DBS non HBS |               | Ant 7 Standalone non DBS non HBS |               | Ant 6+7 Standalone non DBS non HBS |               | Duty Cycle % |
|                                          |                            |                     |         |                 | Average power (dBm)              | Tune-Up Limit | Average power (dBm)              | Tune-Up Limit | Average power (dBm)                | Tune-Up Limit |              |
|                                          |                            |                     |         |                 |                                  |               |                                  |               |                                    |               |              |
|                                          | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps       | 1       | 5955            | Not Required                     | 13.50         | Not Required                     | 13.00         | Not Required                       | 16.30         | 99.32        |
|                                          |                            |                     | 49      | 6195            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                          |                            |                     | 93      | 6415            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                          |                            | 802.11ax-HE20 MCS0  | 1       | 5955            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         | 100.00       |
|                                          |                            |                     | 49      | 6195            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                          |                            |                     | 93      | 6415            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                          |                            | 802.11ax-HE40 MCS0  | 3       | 5965            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         | 100.00       |
|                                          |                            |                     | 51      | 6205            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                          |                            |                     | 91      | 6405            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                          |                            | 802.11ax-HE80 MCS0  | 7       | 5985            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         | 100.00       |
|                                          |                            |                     | 55      | 6225            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                          |                            |                     | 87      | 6385            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                          |                            | 802.11ax-HE160 MCS0 | 15      | 6025            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         | 100.00       |
|                                          |                            |                     | 47      | 6185            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                          |                            |                     | 1       | 5955            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         |              |
|                                          |                            | 802.11be-EHT20 MCS0 | 49      | 6195            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         | 100.00       |
|                                          |                            |                     | 93      | 6415            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                          |                            |                     | 3       | 5965            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         |              |
|                                          |                            | 802.11be-EHT40 MCS0 | 51      | 6205            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         | 100.00       |
|                                          |                            |                     |         |                 |                                  |               |                                  |               |                                    |               |              |
|                                          |                            |                     |         |                 |                                  |               |                                  |               |                                    |               |              |



|  |                            |                      |     |      |              |       |              |       |              |       |        |
|--|----------------------------|----------------------|-----|------|--------------|-------|--------------|-------|--------------|-------|--------|
|  | UNII 7<br>(6.525-6.885GHz) | 802.11be-EHT80 MCS0  | 91  | 6405 |              | 12.00 |              | 13.50 |              | 15.80 | 100.00 |
|  |                            |                      | 7   | 5985 |              | 13.50 |              | 13.00 |              | 16.30 |        |
|  |                            |                      | 55  | 6225 |              | 13.00 |              | 12.50 |              | 15.80 |        |
|  |                            |                      | 87  | 6385 |              | 12.00 |              | 13.50 |              | 15.80 |        |
|  |                            | 802.11be-EHT160 MCS0 | 15  | 6025 |              | 13.50 |              | 13.00 |              | 16.30 | 100.00 |
|  |                            |                      | 47  | 6185 |              | 13.00 |              | 12.50 |              | 15.80 |        |
|  |                            |                      | 79  | 6345 |              | 12.00 |              | 13.50 |              | 15.80 |        |
|  |                            | 802.11be-EHT320 MCS0 | 31  | 6105 | 13.38        | 13.50 | 12.98        | 13.00 | 16.19        | 16.30 | 100.00 |
|  |                            |                      | 63  | 6265 | 12.80        | 13.00 | 12.28        | 12.50 | 15.56        | 15.80 |        |
|  |                            |                      | 95  | 6425 | 11.55        | 12.00 | 13.37        | 13.50 | 15.56        | 15.80 |        |
|  |                            | 802.11a 6Mbps        | 117 | 6535 |              | 11.50 |              | 13.50 |              | 15.60 | 99.32  |
|  |                            |                      | 149 | 6695 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 173 | 6815 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11ax-HE20 MCS0   | 117 | 6535 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 149 | 6695 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 173 | 6815 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11ax-HE40 MCS0   | 123 | 6565 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 147 | 6685 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 179 | 6845 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11ax-HE80 MCS0   | 135 | 6625 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 151 | 6705 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 167 | 6785 | Not Required | 11.50 | Not Required | 13.50 | Not Required | 15.60 |        |
|  |                            | 802.11ax-HE160 MCS0  | 143 | 6665 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            | 802.11be-EHT20 MCS0  | 117 | 6535 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 149 | 6695 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 173 | 6815 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11be-EHT40 MCS0  | 123 | 6565 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 147 | 6685 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 179 | 6845 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11be-EHT80 MCS0  | 135 | 6625 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            |                      | 151 | 6705 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            |                      | 167 | 6785 |              | 11.50 |              | 13.50 |              | 15.60 |        |
|  |                            | 802.11be-EHT160 MCS0 | 143 | 6665 |              | 11.50 |              | 13.50 |              | 15.60 | 100.00 |
|  |                            | 802.11be-EHT320 MCS0 | 159 | 6745 | 11.46        | 11.50 | 13.28        | 13.50 | 15.47        | 15.60 | 100.00 |

| <WLAN 6GHz> indoor client - Standalone |                            |                      |         |                 |                                  |               |                                  |               |                                    |               |              |
|----------------------------------------|----------------------------|----------------------|---------|-----------------|----------------------------------|---------------|----------------------------------|---------------|------------------------------------|---------------|--------------|
|                                        | Band                       | Mode                 | Channel | Frequency (MHz) | Ant 6 Standalone non DBS non HBS |               | Ant 7 Standalone non DBS non HBS |               | Ant 6+7 Standalone non DBS non HBS |               | Duty Cycle % |
|                                        |                            |                      |         |                 | Average power (dBm)              | Tune-Up Limit | Average power (dBm)              | Tune-Up Limit | Average power (dBm)                | Tune-Up Limit |              |
|                                        |                            |                      |         |                 |                                  |               |                                  |               |                                    |               |              |
| WLAN 6GHz                              | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955            |                                  | 4.50          |                                  | 5.00          |                                    | 7.80          | 99.32        |
|                                        |                            |                      | 49      | 6195            |                                  | 5.00          |                                  | 5.00          |                                    | 8.00          |              |
|                                        |                            |                      | 93      | 6415            |                                  | 4.50          |                                  | 5.00          |                                    | 7.80          |              |
|                                        |                            | 802.11ax-HE20 MCS0   | 1       | 5955            |                                  | 7.50          |                                  | 8.00          |                                    | 10.80         | 100.00       |
|                                        |                            |                      | 49      | 6195            |                                  | 7.50          |                                  | 8.00          |                                    | 10.80         |              |
|                                        |                            |                      | 93      | 6415            |                                  | 7.00          |                                  | 4.50          |                                    | 8.90          |              |
|                                        |                            | 802.11ax-HE40 MCS0   | 3       | 5965            |                                  | 10.50         |                                  | 10.50         |                                    | 13.50         | 100.00       |
|                                        |                            |                      | 51      | 6205            |                                  | 10.50         |                                  | 11.00         |                                    | 13.80         |              |
|                                        |                            |                      | 91      | 6405            |                                  | 10.50         |                                  | 11.00         |                                    | 13.80         |              |
|                                        |                            | 802.11ax-HE80 MCS0   | 7       | 5985            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         | 100.00       |
|                                        |                            |                      | 55      | 6225            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                        |                            |                      | 87      | 6385            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                        |                            | 802.11ax-HE160 MCS0  | 15      | 6025            | Not Required                     | 13.50         | Not Required                     | 13.00         | Not Required                       | 16.30         | 100.00       |
|                                        |                            |                      | 47      | 6185            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         |              |
|                                        |                            |                      | 1       | 5955            |                                  | 7.50          |                                  | 8.00          |                                    | 10.80         |              |
|                                        |                            | 802.11be-EHT20 MCS0  | 49      | 6195            |                                  | 8.00          |                                  | 8.00          |                                    | 11.00         | 100.00       |
|                                        |                            |                      | 93      | 6415            |                                  | 7.00          |                                  | 8.00          |                                    | 10.50         |              |
|                                        |                            |                      | 3       | 5965            |                                  | 10.50         |                                  | 10.50         |                                    | 13.50         |              |
|                                        |                            | 802.11be-EHT40 MCS0  | 51      | 6205            |                                  | 10.50         |                                  | 11.00         |                                    | 13.80         | 100.00       |
|                                        |                            |                      | 91      | 6405            |                                  | 10.50         |                                  | 11.00         |                                    | 13.80         |              |
|                                        |                            |                      | 7       | 5985            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         |              |
|                                        |                            | 802.11be-EHT80 MCS0  | 55      | 6225            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         | 100.00       |
|                                        |                            |                      | 87      | 6385            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                        |                            |                      | 15      | 6025            |                                  | 13.50         |                                  | 13.00         |                                    | 16.30         |              |
|                                        |                            | 802.11be-EHT160 MCS0 | 47      | 6185            |                                  | 13.00         |                                  | 12.50         |                                    | 15.80         | 100.00       |
|                                        |                            |                      | 79      | 6345            |                                  | 12.00         |                                  | 13.50         |                                    | 15.80         |              |
|                                        |                            |                      | 31      | 6105            | 13.38                            | 13.50         | 12.98                            | 13.00         | 16.19                              | 16.30         |              |
|                                        |                            | 802.11be-EHT320 MCS0 | 63      | 6265            | 12.80                            | 13.00         | 12.28                            | 12.50         | 15.56                              | 15.80         | 100.00       |
|                                        |                            |                      | 95      | 6425            | 11.55                            | 12.00         | 13.37                            | 13.50         | 15.56                              | 15.80         |              |
|                                        |                            |                      | 97      | 6435            |                                  | 4.00          |                                  | 4.50          |                                    | 7.30          |              |
|                                        | UNII 6<br>(6.425-6.525GHz) | 802.11a 6Mbps        | 105     | 6475            | Not Required                     | 4.50          | Not Required                     | 5.00          | Not Required                       | 7.80          | 99.32        |
|                                        |                            |                      | 113     | 6515            |                                  | 5.00          |                                  | 5.00          |                                    | 8.00          |              |
|                                        |                            |                      | 97      | 6435            |                                  | 7.50          |                                  | 8.50          |                                    | 11.00         |              |



|                            |                      |     |      |       |       |       |        |
|----------------------------|----------------------|-----|------|-------|-------|-------|--------|
| UNII 7<br>(6.525-6.885GHz) | 802.11ax-HE40 MCS0   | 105 | 6475 | 7.50  | 8.50  | 11.00 | 100.00 |
|                            |                      | 113 | 6515 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 99  | 6445 | 11.00 | 11.00 | 14.00 | 100.00 |
|                            |                      | 115 | 6525 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 103 | 6465 | 12.00 | 13.50 | 15.80 | 100.00 |
|                            |                      | 119 | 6545 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 111 | 6505 | 12.00 | 13.50 | 15.80 | 100.00 |
|                            |                      | 97  | 6435 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 105 | 6475 | 7.50  | 8.50  | 11.00 | 100.00 |
|                            |                      | 113 | 6515 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 99  | 6445 | 11.00 | 11.00 | 14.00 | 100.00 |
|                            |                      | 107 | 6485 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 103 | 6465 | 12.00 | 13.50 | 15.80 | 100.00 |
|                            |                      | 119 | 6545 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 111 | 6505 | 12.00 | 13.50 | 15.80 | 100.00 |
|                            |                      | 127 | 6585 |       |       |       |        |
|                            | 802.11a 6Mbps        | 117 | 6535 | 5.00  | 5.00  | 8.00  | 99.32  |
|                            |                      | 149 | 6695 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 173 | 6815 | 4.50  | 5.50  | 8.00  | 100.00 |
|                            |                      | 117 | 6535 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 149 | 6695 | 7.50  | 8.50  | 11.00 | 100.00 |
|                            |                      | 173 | 6815 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 123 | 6565 | 11.00 | 11.00 | 14.00 | 100.00 |
|                            |                      | 147 | 6685 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 179 | 6845 | 11.00 | 12.00 | 14.50 | 100.00 |
|                            |                      | 135 | 6625 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 151 | 6705 | 11.50 | 13.50 | 15.60 | 100.00 |
|                            |                      | 167 | 6785 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 143 | 6665 | 11.50 | 13.50 | 15.60 | 100.00 |
|                            |                      | 117 | 6535 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 149 | 6695 | 7.50  | 8.50  | 11.00 | 100.00 |
|                            |                      | 173 | 6815 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 123 | 6565 | 11.00 | 11.00 | 14.00 | 100.00 |
|                            |                      | 147 | 6685 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 179 | 6845 | 11.00 | 12.00 | 14.50 | 100.00 |
|                            |                      | 135 | 6625 |       |       |       |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11a 6Mbps        | 189 | 6895 | 5.50  | 6.00  | 8.80  | 99.32  |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 229 | 7095 | 4.00  | 4.00  | 7.00  | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11a 6Mbps        | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11ax-HE80 MCS0   | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11ax-HE160 MCS0  | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11be-EHT20 MCS0  | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11be-EHT40 MCS0  | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |
|                            | 802.11be-EHT80 MCS0  | 227 | 7085 | 9.50  | 10.00 | 12.80 | 100.00 |
|                            |                      | 199 | 6945 |       |       |       |        |
|                            | 802.11be-EHT160 MCS0 | 215 | 7025 | 12.50 | 13.00 | 16.00 | 100.00 |
|                            |                      | 207 | 6985 |       |       |       |        |
|                            | 802.11be-EHT320 MCS0 | 189 | 6895 | 8.50  | 9.00  | 11.80 | 100.00 |
|                            |                      | 209 | 6995 |       |       |       |        |
|                            | 802.11ax-HE20 MCS0   | 229 | 7095 | 6.50  | 7.50  | 10.00 | 100.00 |
|                            |                      | 233 | 7115 |       |       |       |        |
|                            | 802.11ax-HE40 MCS0   | 195 | 6925 | 11.50 | 12.00 | 14.80 | 100.00 |
|                            |                      | 211 | 7005 |       |       |       |        |



| <WLAN 6GHz> standard client - Sensor on(DBS&HBS) |                         |                      |         |                 |                     |               |                     |               |                     |               |              |
|--------------------------------------------------|-------------------------|----------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|---------------------|---------------|--------------|
|                                                  | Band                    | Mode                 | Channel | Frequency (MHz) | Ant 6 DBS HBS       |               | Ant 7 DBS HBS       |               | Ant 6+7 DBS HBS     |               | Duty Cycle % |
|                                                  |                         |                      |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit |              |
| WLAN6GHz                                         | UNII 5 (5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 99.32        |
|                                                  |                         |                      | 49      | 6195            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 93      | 6415            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11ax-HE20 MCS0   | 1       | 5955            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 49      | 6195            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 93      | 6415            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11ax-HE40 MCS0   | 3       | 5965            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 51      | 6205            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 91      | 6405            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11ax-HE80 MCS0   | 7       | 5985            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 55      | 6225            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 87      | 6385            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11ax-HE160 MCS0  | 15      | 6025            | Not Required        | 12.00         | Not Required        | 11.50         | Not Required        | 14.80         | 100.00       |
|                                                  |                         |                      | 47      | 6185            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         | 802.11be-EHT20 MCS0  | 1       | 5955            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 49      | 6195            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 93      | 6415            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11be-EHT40 MCS0  | 3       | 5965            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 51      | 6205            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 91      | 6405            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11be-EHT80 MCS0  | 7       | 5985            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 55      | 6225            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 87      | 6385            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11be-EHT160 MCS0 | 15      | 6025            |                     | 12.00         |                     | 11.50         |                     | 14.80         | 100.00       |
|                                                  |                         |                      | 47      | 6185            |                     | 11.50         |                     | 11.00         |                     | 14.30         |              |
|                                                  |                         |                      | 79      | 6345            |                     | 10.50         |                     | 12.00         |                     | 14.30         |              |
|                                                  |                         | 802.11be-EHT320 MCS0 | 31      | 6105            | 11.81               | 12.00         | 11.41               | 11.50         | 14.62               | 14.80         | 100.00       |
|                                                  |                         |                      | 63      | 6265            | 11.33               | 11.50         | 10.73               | 11.00         | 14.05               | 14.30         |              |
|                                                  |                         |                      | 95      | 6425            | 10.23               | 10.50         | 11.81               | 12.00         | 14.10               | 14.30         |              |
|                                                  | UNII 7 (6.525-6.885GHz) | 802.11a 6Mbps        | 117     | 6535            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 99.32        |
|                                                  |                         |                      | 149     | 6695            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 173     | 6815            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11ax-HE20 MCS0   | 117     | 6535            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 149     | 6695            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 173     | 6815            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11ax-HE40 MCS0   | 123     | 6565            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 147     | 6685            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 179     | 6845            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11ax-HE80 MCS0   | 135     | 6625            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 151     | 6705            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 167     | 6785            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11ax-HE160 MCS0  | 143     | 6665            | Not Required        | 10.00         | Not Required        | 12.00         | Not Required        | 14.10         | 100.00       |
|                                                  |                         |                      | 117     | 6535            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 149     | 6695            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11be-EHT20 MCS0  | 173     | 6815            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 123     | 6565            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 147     | 6685            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11be-EHT40 MCS0  | 179     | 6845            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 135     | 6625            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 151     | 6705            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11be-EHT80 MCS0  | 167     | 6785            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 151     | 6705            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         |                      | 167     | 6785            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11be-EHT160 MCS0 | 143     | 6665            |                     | 10.00         |                     | 12.00         |                     | 14.10         | 100.00       |
|                                                  |                         |                      | 159     | 6745            |                     | 10.00         |                     | 12.00         |                     | 14.10         |              |
|                                                  |                         | 802.11be-EHT320 MCS0 | 159     | 6745            | 9.87                | 10.00         | 11.71               | 12.00         | 13.90               | 14.10         | 100.00       |



| <WLAN6GHz> indoor client - Sensor on(DBS&HBS) |                            |                      |         |                 |                     |               |                     |               |                       |               |              |
|-----------------------------------------------|----------------------------|----------------------|---------|-----------------|---------------------|---------------|---------------------|---------------|-----------------------|---------------|--------------|
|                                               | Band                       | Mode                 | Channel | Frequency (MHz) | Ant 6<br>DBS<br>HBS |               | Ant 7<br>DBS<br>HBS |               | Ant 6+7<br>DBS<br>HBS |               | Duty Cycle % |
|                                               |                            |                      |         |                 | Average power (dBm) | Tune-Up Limit | Average power (dBm) | Tune-Up Limit | Average power (dBm)   | Tune-Up Limit |              |
| WLAN6GHz                                      | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955            |                     | 4.50          |                     | 5.00          |                       | 7.80          | 99.32        |
|                                               |                            |                      | 49      | 6195            |                     | 5.00          |                     | 5.00          |                       | 8.00          |              |
|                                               |                            |                      | 93      | 6415            |                     | 4.50          |                     | 5.00          |                       | 7.80          |              |
|                                               |                            | 802.11ax-HE20 MCS0   | 1       | 5955            |                     | 7.50          |                     | 8.00          |                       | 10.80         | 100.00       |
|                                               |                            |                      | 49      | 6195            |                     | 7.50          |                     | 8.00          |                       | 10.80         |              |
|                                               |                            |                      | 93      | 6415            |                     | 7.00          |                     | 4.50          |                       | 8.90          |              |
|                                               |                            | 802.11ax-HE40 MCS0   | 3       | 5965            |                     | 10.50         |                     | 10.50         |                       | 13.50         | 100.00       |
|                                               |                            |                      | 51      | 6205            |                     | 10.50         |                     | 11.00         |                       | 13.80         |              |
|                                               |                            |                      | 91      | 6405            |                     | 10.50         |                     | 11.00         |                       | 13.80         |              |
|                                               |                            | 802.11ax-HE80 MCS0   | 7       | 5985            |                     | 12.00         |                     | 11.50         |                       | 14.80         | 100.00       |
|                                               |                            |                      | 55      | 6225            |                     | 11.50         |                     | 11.00         |                       | 14.30         |              |
|                                               |                            |                      | 87      | 6385            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            | 802.11ax-HE160 MCS0  | 15      | 6025            | Not Required        | 12.00         | Not Required        | 11.50         | Not Required          | 14.80         | 100.00       |
|                                               |                            |                      | 47      | 6185            |                     | 11.50         |                     | 11.00         |                       | 14.30         |              |
|                                               |                            |                      | 1       | 5955            |                     | 7.50          |                     | 8.00          |                       | 10.80         |              |
|                                               |                            | 802.11be-EHT20 MCS0  | 49      | 6195            |                     | 8.00          |                     | 8.00          |                       | 11.00         | 100.00       |
|                                               |                            |                      | 93      | 6415            |                     | 7.00          |                     | 8.00          |                       | 10.50         |              |
|                                               |                            |                      | 3       | 5965            |                     | 10.50         |                     | 10.50         |                       | 13.50         |              |
|                                               |                            | 802.11be-EHT40 MCS0  | 51      | 6205            |                     | 10.50         |                     | 11.00         |                       | 13.80         | 100.00       |
|                                               |                            |                      | 91      | 6405            |                     | 10.50         |                     | 11.00         |                       | 13.80         |              |
|                                               |                            |                      | 7       | 5985            |                     | 12.00         |                     | 11.50         |                       | 14.80         |              |
|                                               |                            | 802.11be-EHT80 MCS0  | 55      | 6225            |                     | 11.50         |                     | 11.00         |                       | 14.30         | 100.00       |
|                                               |                            |                      | 87      | 6385            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 15      | 6025            |                     | 12.00         |                     | 11.50         |                       | 14.80         |              |
|                                               |                            | 802.11be-EHT160 MCS0 | 47      | 6185            |                     | 11.50         |                     | 11.00         |                       | 14.30         | 100.00       |
|                                               |                            |                      | 79      | 6345            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 31      | 6105            |                     | 11.81         |                     | 11.50         |                       | 14.80         |              |
|                                               |                            | 802.11be-EHT320 MCS0 | 63      | 6265            |                     | 11.33         |                     | 11.00         |                       | 14.05         | 100.00       |
|                                               |                            |                      | 95      | 6425            |                     | 10.23         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 97      | 6435            |                     | 4.00          |                     | 4.50          |                       | 7.30          |              |
|                                               | UNII 6<br>(6.425-6.525GHz) | 802.11a 6Mbps        | 105     | 6475            |                     | 4.50          |                     | 5.00          |                       | 7.80          | 99.32        |
|                                               |                            |                      | 113     | 6515            |                     | 5.00          |                     | 5.00          |                       | 8.00          |              |
|                                               |                            |                      | 97      | 6435            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            | 802.11ax-HE20 MCS0   | 105     | 6475            |                     | 7.50          |                     | 8.50          |                       | 11.00         | 100.00       |
|                                               |                            |                      | 113     | 6515            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            |                      | 99      | 6445            |                     | 10.50         |                     | 11.00         |                       | 14.00         |              |
|                                               |                            | 802.11ax-HE40 MCS0   | 115     | 6525            |                     | 10.50         |                     | 11.00         |                       | 14.00         | 100.00       |
|                                               |                            |                      | 103     | 6465            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 119     | 6545            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            | 802.11ax-HE160 MCS0  | 111     | 6505            | Not Required        | 10.50         | Not Required        | 12.00         | Not Required          | 14.30         | 100.00       |
|                                               |                            |                      | 97      | 6435            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            |                      | 105     | 6475            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            | 802.11be-EHT20 MCS0  | 113     | 6515            |                     | 8.00          |                     | 8.50          |                       | 11.30         | 100.00       |
|                                               |                            |                      | 99      | 6445            |                     | 10.50         |                     | 11.00         |                       | 14.00         |              |
|                                               |                            |                      | 107     | 6485            |                     | 10.50         |                     | 11.00         |                       | 14.00         |              |
|                                               |                            | 802.11be-EHT40 MCS0  | 115     | 6525            |                     | 10.50         |                     | 11.00         |                       | 14.30         | 100.00       |
|                                               |                            |                      | 103     | 6465            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 119     | 6545            |                     | 10.50         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            | 802.11be-EHT80 MCS0  | 111     | 6505            |                     | 10.50         |                     | 12.00         |                       | 14.30         | 100.00       |
|                                               |                            |                      | 127     | 6585            |                     | 10.19         |                     | 12.00         |                       | 14.30         |              |
|                                               |                            |                      | 117     | 6535            |                     | 5.00          |                     | 5.00          |                       | 8.00          |              |
|                                               | UNII 7<br>(6.525-6.885GHz) | 802.11a 6Mbps        | 149     | 6695            |                     | 5.00          |                     | 5.50          |                       | 8.30          | 99.32        |
|                                               |                            |                      | 173     | 6815            |                     | 4.50          |                     | 5.50          |                       | 8.00          |              |
|                                               |                            |                      | 117     | 6535            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            | 802.11ax-HE20 MCS0   | 149     | 6695            |                     | 7.50          |                     | 8.50          |                       | 11.00         | 100.00       |
|                                               |                            |                      | 173     | 6815            |                     | 8.50          |                     | 9.00          |                       | 11.80         |              |
|                                               |                            |                      | 123     | 6565            |                     | 10.00         |                     | 11.00         |                       | 14.00         |              |
|                                               |                            | 802.11ax-HE40 MCS0   | 147     | 6685            | Not Required        | 10.00         | Not Required        | 11.50         | Not Required          | 14.10         | 100.00       |
|                                               |                            |                      | 179     | 6845            |                     | 10.00         |                     | 12.00         |                       | 14.10         |              |
|                                               |                            |                      | 135     | 6625            |                     | 10.00         |                     | 12.00         |                       | 14.10         |              |
|                                               |                            | 802.11ax-HE80 MCS0   | 151     | 6705            |                     | 10.00         |                     | 12.00         |                       | 14.10         | 100.00       |
|                                               |                            |                      | 167     | 6785            |                     | 10.00         |                     | 12.00         |                       | 14.10         |              |
|                                               |                            |                      | 143     | 6665            |                     | 10.00         |                     | 12.00         |                       | 14.10         |              |
|                                               |                            | 802.11be-EHT20 MCS0  | 117     | 6535            |                     | 7.50          |                     | 8.50          |                       | 11.00         | 100.00       |
|                                               |                            |                      | 149     | 6695            |                     | 7.50          |                     | 8.50          |                       | 11.00         |              |
|                                               |                            |                      | 173     | 6815            |                     | 8.50          |                     | 9.00          |                       | 11.80         |              |



|  |                      |                            |               |      |              |              |       |              |              |              |        |              |       |        |
|--|----------------------|----------------------------|---------------|------|--------------|--------------|-------|--------------|--------------|--------------|--------|--------------|-------|--------|
|  |                      | 802.11be-EHT40 MCS0        | 123           | 6565 |              | 10.00        |       | 11.00        |              | 14.00        | 100.00 |              |       |        |
|  |                      |                            | 147           | 6685 |              | 10.00        |       | 11.50        |              | 14.10        |        |              |       |        |
|  |                      |                            | 179           | 6845 |              | 10.00        |       | 12.00        |              | 14.10        |        |              |       |        |
|  |                      | 802.11be-EHT80 MCS0        | 135           | 6625 |              | 10.00        |       | 12.00        |              | 14.10        | 100.00 |              |       |        |
|  |                      |                            | 151           | 6705 |              | 10.00        |       | 12.00        |              | 14.10        |        |              |       |        |
|  |                      |                            | 167           | 6785 |              | 10.00        |       | 12.00        |              | 14.10        |        |              |       |        |
|  |                      | 802.11be-EHT160 MCS0       | 143           | 6665 | 9.87         | 10.00        | 11.71 | 12.00        | 13.90        | 14.10        | 100.00 |              |       |        |
|  |                      | 802.11be-EHT320 MCS0       | 159           | 6745 |              | 10.00        |       | 12.00        |              | 14.10        | 100.00 |              |       |        |
|  |                      | UNII 8<br>(6.885-7.125GHz) | 802.11a 6Mbps | 189  | 6895         | Not Required | 5.50  | Not Required | 6.00         | Not Required | 8.80   | 99.32        |       |        |
|  |                      |                            |               | 209  | 6995         |              | 3.50  |              | 3.50         |              | 6.50   |              |       |        |
|  | 229                  |                            |               | 7095 | 4.00         |              | 4.00  |              | 7.00         |              |        |              |       |        |
|  | 233                  |                            |               | 7115 | 3.50         |              | 4.00  |              | 6.80         |              |        |              |       |        |
|  | 802.11ax-HE20 MCS0   |                            | 189           | 6895 | 8.50         |              | 9.00  |              | 11.80        |              | 100.00 |              |       |        |
|  |                      |                            | 209           | 6995 | 7.00         |              | 7.50  |              | 10.30        |              |        |              |       |        |
|  |                      |                            | 229           | 7095 | 6.50         |              | 7.50  |              | 10.00        |              |        |              |       |        |
|  |                      |                            | 233           | 7115 | -2.00        |              | -2.00 |              | 1.00         |              |        |              |       |        |
|  | 802.11ax-HE40 MCS0   |                            | 195           | 6925 | 11.00        |              | 12.00 |              | 14.80        |              | 100.00 |              |       |        |
|  |                      |                            | 211           | 7005 | 9.50         |              | 10.00 |              | 12.80        |              |        |              |       |        |
|  |                      |                            | 227           | 7085 | 9.50         |              | 10.00 |              | 12.80        |              |        |              |       |        |
|  | 802.11ax-HE80 MCS0   |                            | 199           | 6945 | 11.00        |              | 12.50 |              | 14.80        |              | 100.00 |              |       |        |
|  |                      |                            | 215           | 7025 | 11.00        |              | 12.50 |              | 14.80        |              |        |              |       |        |
|  | 802.11ax-HE160 MCS0  |                            | 207           | 6985 | 11.00        |              | 12.50 |              | 14.80        |              | 100.00 |              |       |        |
|  | 802.11be-EHT20 MCS0  |                            | 189           | 6895 | Not Required |              | 8.50  |              | Not Required |              | 9.00   | Not Required | 11.80 | 100.00 |
|  |                      |                            | 209           | 6995 |              |              | 7.00  |              |              |              | 7.50   |              | 10.30 |        |
|  |                      |                            | 229           | 7095 |              |              | 6.50  |              |              |              | 7.50   |              | 10.00 |        |
|  |                      |                            | 233           | 7115 |              |              | -2.00 |              |              |              | -2.00  |              | 1.00  |        |
|  | 802.11be-EHT40 MCS0  |                            | 195           | 6925 | 10.68        |              | 11.00 |              | 12.31        |              | 12.00  | 14.58        | 14.80 | 100.00 |
|  |                      |                            | 211           | 7005 |              |              | 9.50  |              |              |              | 10.00  |              | 12.80 |        |
|  |                      |                            | 227           | 7085 |              |              | 9.50  |              |              |              | 10.00  |              | 12.80 |        |
|  | 802.11be-EHT80 MCS0  |                            | 199           | 6945 | 10.68        |              | 11.00 |              | 12.31        |              | 12.50  | 14.58        | 14.80 | 100.00 |
|  |                      |                            | 215           | 7025 |              |              | 11.00 |              |              |              | 12.50  |              | 14.80 |        |
|  | 802.11be-EHT160 MCS0 |                            | 207           | 6985 | 11.00        |              | 12.50 |              | 14.80        |              | 100.00 |              |       |        |
|  | 802.11be-EHT320 MCS0 |                            | 191           | 6905 | 10.68        |              | 11.00 |              | 12.31        |              | 12.50  | 14.58        | 14.80 | 100.00 |



# FCC SAR Test Report

Report No. : FA551202

|                            |                      |     |      |       |       |       |       |       |       |        |
|----------------------------|----------------------|-----|------|-------|-------|-------|-------|-------|-------|--------|
| UNII 7<br>(6.525-6.885GHz) | 802.11ax-HE20 MCS0   | 97  | 6435 | 3.40  | 3.50  | 3.03  | 3.50  | 6.23  | 6.50  | 100.00 |
|                            |                      | 105 | 6475 | 4.32  | 4.50  | 4.05  | 4.50  | 7.20  | 7.50  |        |
|                            |                      | 113 | 6515 | 4.42  | 4.50  | 4.04  | 4.50  | 7.24  | 7.50  |        |
|                            | 802.11ax-HE40 MCS0   | 99  | 6445 | 6.62  | 7.00  | 7.16  | 7.50  | 9.91  | 10.00 | 100.00 |
|                            |                      | 115 | 6525 | 7.21  | 7.50  | 6.57  | 7.00  | 9.91  | 10.00 |        |
|                            | 802.11ax-HE80 MCS0   | 103 | 6465 | 9.85  | 10.00 | 10.17 | 10.50 | 13.02 | 13.50 | 100.00 |
|                            |                      | 119 | 6545 | 9.88  | 10.00 | 9.99  | 10.00 | 12.95 | 13.00 |        |
|                            | 802.11ax-HE160 MCS0  | 111 | 6505 | 10.17 | 10.50 | 10.46 | 10.50 | 13.33 | 13.50 | 100.00 |
|                            | 802.11be-EHT20 MCS0  | 97  | 6435 | 3.42  | 3.50  | 3.11  | 3.50  | 6.28  | 6.50  | 100.00 |
|                            |                      | 105 | 6475 | 4.38  | 4.50  | 4.11  | 4.50  | 7.26  | 7.50  |        |
|                            |                      | 113 | 6515 | 4.49  | 4.50  | 4.07  | 4.50  | 7.30  | 7.50  |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11ax-HE20 MCS0   | 99  | 6445 | 6.69  | 7.00  | 7.21  | 7.50  | 9.97  | 10.00 | 100.00 |
|                            |                      | 107 | 6485 | 6.82  | 7.00  | 7.09  | 7.50  | 9.97  | 10.00 |        |
|                            |                      | 115 | 6525 | 7.27  | 7.50  | 6.61  | 7.00  | 9.96  | 10.00 |        |
|                            | 802.11be-EHT40 MCS0  | 103 | 6465 | 9.91  | 10.00 | 10.25 | 10.50 | 13.09 | 13.50 | 100.00 |
|                            |                      | 119 | 6545 | 9.91  | 10.00 | 10.04 | 10.50 | 12.99 | 13.00 |        |
|                            | 802.11be-EHT80 MCS0  | 111 | 6505 | 10.22 | 10.50 | 10.48 | 10.50 | 13.36 | 13.50 | 100.00 |
|                            | 802.11be-EHT160 MCS0 | 127 | 6585 | 10.03 | 10.50 | 10.68 | 11.00 | 13.38 | 13.50 | 100.00 |
|                            |                      | 117 | 6535 | 0.88  | 1.00  | 1.29  | 1.50  | 4.10  | 4.50  |        |
|                            |                      | 149 | 6695 | 0.97  | 1.00  | 1.61  | 2.00  | 4.31  | 4.50  |        |
|                            | 802.11a 6Mbps        | 173 | 6815 | 1.10  | 1.50  | 1.68  | 2.00  | 4.41  | 4.50  | 99.32  |
|                            |                      | 117 | 6535 | 4.50  | 5.00  | 4.06  | 4.50  | 7.30  | 7.50  |        |
|                            |                      | 149 | 6695 | 4.77  | 5.00  | 4.58  | 5.00  | 7.69  | 8.00  |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11ax-HE20 MCS0   | 173 | 6815 | 4.36  | 4.50  | 4.71  | 5.00  | 7.55  | 8.00  | 100.00 |
|                            |                      | 123 | 6565 | 7.43  | 7.50  | 7.56  | 8.00  | 10.51 | 11.00 |        |
|                            |                      | 147 | 6685 | 7.38  | 7.50  | 7.96  | 8.00  | 10.69 | 11.00 |        |
|                            | 802.11ax-HE40 MCS0   | 179 | 6845 | 7.42  | 7.50  | 8.28  | 8.50  | 10.88 | 11.00 | 100.00 |
|                            |                      | 135 | 6625 | 10.27 | 10.50 | 10.96 | 11.00 | 13.64 | 14.00 |        |
|                            |                      | 151 | 6705 | 10.26 | 10.50 | 11.00 | 11.50 | 13.66 | 14.00 |        |
|                            | 802.11ax-HE80 MCS0   | 167 | 6785 | 10.20 | 10.50 | 10.89 | 11.00 | 13.57 | 14.00 | 100.00 |
|                            |                      | 143 | 6665 | 10.38 | 10.50 | 11.26 | 11.50 | 13.85 | 14.00 |        |
|                            |                      | 117 | 6535 | 4.52  | 5.00  | 4.08  | 4.50  | 7.32  | 7.50  |        |
|                            | 802.11be-EHT20 MCS0  | 149 | 6695 | 4.82  | 5.00  | 4.62  | 5.00  | 7.73  | 8.00  | 100.00 |
|                            |                      | 173 | 6815 | 4.40  | 4.50  | 4.74  | 5.00  | 7.58  | 8.00  |        |
|                            |                      | 123 | 6565 | 7.45  | 7.50  | 7.61  | 8.00  | 10.54 | 11.00 |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11be-EHT40 MCS0  | 147 | 6685 | 7.42  | 7.50  | 8.03  | 8.50  | 10.75 | 11.00 | 100.00 |
|                            |                      | 179 | 6845 | 7.48  | 7.50  | 8.32  | 8.50  | 10.93 | 11.00 |        |
|                            |                      | 135 | 6625 | 10.30 | 10.50 | 10.98 | 11.00 | 13.66 | 14.00 |        |
|                            | 802.11be-EHT80 MCS0  | 151 | 6705 | 10.31 | 10.50 | 11.07 | 11.50 | 13.72 | 14.00 | 100.00 |
|                            |                      | 167 | 6785 | 10.22 | 10.50 | 10.91 | 11.00 | 13.59 | 14.00 |        |
|                            |                      | 143 | 6665 | 10.45 | 10.50 | 11.28 | 11.50 | 13.90 | 14.00 |        |
|                            | 802.11be-EHT160 MCS0 | 159 | 6745 | 10.41 | 10.50 | 11.42 | 11.50 | 13.95 | 14.00 | 100.00 |
|                            |                      | 189 | 6895 | 1.13  | 1.50  | 1.77  | 2.00  | 4.47  | 4.50  |        |
|                            |                      | 209 | 6995 | -0.14 | 0.00  | -0.12 | 0.00  | 2.88  | 3.00  |        |
|                            | 802.11a 6Mbps        | 229 | 7095 | -0.39 | 0.00  | 0.41  | 0.50  | 3.04  | 3.50  | 99.32  |
|                            |                      | 233 | 7115 | -0.45 | 0.00  | 0.31  | 0.50  | 2.96  | 3.00  |        |
|                            |                      | 189 | 6895 | 4.66  | 5.00  | 4.88  | 5.00  | 7.78  | 8.00  |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11ax-HE20 MCS0   | 209 | 6995 | 3.62  | 4.00  | 3.23  | 3.50  | 6.44  | 6.50  | 100.00 |
|                            |                      | 229 | 7095 | 3.41  | 3.50  | 3.12  | 3.50  | 6.28  | 6.50  |        |
|                            |                      | 233 | 7115 | -2.28 | -2.00 | 7.08  | 7.50  | 7.56  | 8.00  |        |
|                            | 802.11ax-HE40 MCS0   | 195 | 6925 | 8.51  | 9.00  | 8.02  | 8.50  | 11.28 | 11.50 | 100.00 |
|                            |                      | 211 | 7005 | 6.69  | 7.00  | 5.74  | 6.00  | 9.25  | 9.50  |        |
|                            |                      | 227 | 7085 | 6.02  | 6.50  | 6.52  | 7.00  | 9.29  | 9.50  |        |
|                            | 802.11ax-HE80 MCS0   | 199 | 6945 | 10.37 | 10.50 | 10.71 | 11.00 | 13.55 | 14.00 | 100.00 |
|                            |                      | 215 | 7025 | 9.13  | 9.50  | 9.14  | 9.50  | 12.15 | 12.50 |        |
|                            |                      | 207 | 6985 | 10.96 | 11.00 | 11.19 | 11.50 | 14.09 | 14.50 |        |
|                            | 802.11be-EHT20 MCS0  | 189 | 6895 | 4.71  | 5.00  | 4.95  | 5.00  | 7.84  | 8.00  | 100.00 |
|                            |                      | 209 | 6995 | 3.68  | 4.00  | 3.27  | 3.50  | 6.49  | 6.50  |        |
|                            |                      | 229 | 7095 | 3.46  | 3.50  | 3.18  | 3.50  | 6.33  | 6.50  |        |
| UNII 8<br>(6.885-7.125GHz) | 802.11be-EHT40 MCS0  | 233 | 7115 | -2.22 | -2.00 | -2.17 | -2.00 | 0.82  | 1.00  | 100.00 |
|                            |                      | 195 | 6925 | 8.54  | 9.00  | 8.05  | 8.50  | 11.31 | 11.50 |        |
|                            |                      | 211 | 7005 | 6.75  | 7.00  | 5.82  | 6.00  | 9.32  | 9.50  |        |
|                            | 802.11be-EHT80 MCS0  | 227 | 7085 | 6.08  | 6.50  | 6.57  | 7.00  | 9.34  | 9.50  | 100.00 |
|                            |                      | 199 | 6945 | 10.45 | 10.50 | 10.77 | 11.00 | 13.62 | 14.00 |        |
|                            |                      | 215 | 7025 | 9.21  | 9.50  | 9.17  | 9.50  | 12.20 | 12.50 |        |
|                            | 802.11be-EHT160 MCS0 | 207 | 6985 | 11.02 | 11.50 | 11.25 | 11.50 | 14.15 | 14.50 | 100.00 |
|                            |                      | 191 | 6905 | 10.68 | 11.00 | 11.37 | 11.50 | 14.05 | 14.50 |        |
|                            |                      | 191 | 6905 | 10.68 | 11.00 | 11.37 | 11.50 | 14.05 | 14.50 |        |
|                            | 802.11be-EHT320 MCS0 | 191 | 6905 | 10.68 | 11.00 | 11.37 | 11.50 | 14.05 | 14.50 | 100.00 |



|         |                            |                      |         |                    | Ant 6<br>DBS<br>HBS<br>Simultaneous(Sensor on) |                  | Ant 7<br>DBS<br>HBS<br>Simultaneous(Sensor on) |                  | Ant 6+7<br>DBS<br>HBS<br>Simultaneous(Sensor on) |                  | Duty<br>Cycle % |
|---------|----------------------------|----------------------|---------|--------------------|------------------------------------------------|------------------|------------------------------------------------|------------------|--------------------------------------------------|------------------|-----------------|
|         | Band                       | Mode                 | Channel | Frequency<br>(MHz) | Average<br>power (dBm)                         | Tune-Up<br>Limit | Average<br>power (dBm)                         | Tune-Up<br>Limit | Average<br>power (dBm)                           | Tune-Up<br>Limit |                 |
| WiFi 6E | UNII 5<br>(5.925-6.425GHz) | 802.11a 6Mbps        | 1       | 5955               | Not Required                                   | 1.00             | Not Required                                   | 1.00             | Not Required                                     | 4.00             | 99.32           |
|         |                            |                      | 49      | 6195               |                                                | 1.00             |                                                | 1.00             |                                                  | 4.00             |                 |
|         |                            |                      | 93      | 6415               |                                                | 1.00             |                                                | 0.50             |                                                  | 3.50             |                 |
|         |                            | 802.11ax-HE20 MCS0   | 1       | 5955               |                                                | 4.50             |                                                | 4.00             |                                                  | 7.00             | 100.00          |
|         |                            |                      | 49      | 6195               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            |                      | 93      | 6415               |                                                | 4.00             |                                                | 4.00             |                                                  | 7.00             |                 |
|         |                            | 802.11ax-HE40 MCS0   | 3       | 5965               |                                                | 7.50             |                                                | 6.50             |                                                  | 10.00            | 100.00          |
|         |                            |                      | 51      | 6205               |                                                | 7.00             |                                                | 7.50             |                                                  | 10.50            |                 |
|         |                            |                      | 91      | 6405               |                                                | 7.50             |                                                | 7.00             |                                                  | 10.50            |                 |
|         |                            | 802.11ax-HE80 MCS0   | 7       | 5985               |                                                | 10.50            |                                                | 10.00            |                                                  | 13.00            | 100.00          |
|         |                            |                      | 55      | 6225               |                                                | 10.00            |                                                | 10.00            |                                                  | 13.00            |                 |
|         |                            |                      | 87      | 6385               |                                                | 10.50            |                                                | 10.50            |                                                  | 13.50            |                 |
|         |                            | 802.11ax-HE160 MCS0  | 15      | 6025               |                                                | 11.00            |                                                | 10.50            |                                                  | 14.00            | 100.00          |
|         |                            |                      | 47      | 6185               |                                                | 10.50            |                                                | 11.00            |                                                  | 14.00            |                 |
|         |                            |                      | 7       | 5955               |                                                | 4.50             |                                                | 4.00             |                                                  | 7.00             | 100.00          |
|         |                            | 802.11be-EHT20 MCS0  | 49      | 6195               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            |                      | 93      | 6415               |                                                | 4.00             |                                                | 4.00             |                                                  | 7.00             |                 |
|         |                            |                      | 3       | 5965               |                                                | 7.50             |                                                | 6.50             |                                                  | 10.00            | 100.00          |
|         |                            | 802.11be-EHT40 MCS0  | 51      | 6205               |                                                | 7.00             |                                                | 7.50             |                                                  | 10.50            |                 |
|         |                            |                      | 91      | 6405               |                                                | 7.50             |                                                | 7.00             |                                                  | 10.50            |                 |
|         |                            | 802.11be-EHT80 MCS0  | 7       | 5985               |                                                | 10.50            |                                                | 10.00            |                                                  | 13.00            | 100.00          |
|         |                            |                      | 55      | 6225               |                                                | 10.00            |                                                | 10.50            |                                                  | 13.50            |                 |
|         |                            |                      | 87      | 6385               |                                                | 10.50            |                                                | 10.50            |                                                  | 13.50            |                 |
|         |                            | 802.11be-EHT160 MCS0 | 15      | 6025               |                                                | 11.00            |                                                | 10.50            |                                                  | 14.00            | 100.00          |
|         |                            |                      | 47      | 6185               |                                                | 11.00            |                                                | 11.00            |                                                  | 14.00            |                 |
|         |                            |                      | 79      | 6345               |                                                | 10.50            |                                                | 11.00            |                                                  | 14.00            |                 |
|         |                            | 802.11be-EHT320 MCS0 | 31      | 6105               | 10.68                                          | 11.00            | 10.85                                          | 11.00            | 13.78                                            | 14.00            | 100.00          |
|         |                            |                      | 63      | 6265               | 10.54                                          | 11.00            | 10.97                                          | 11.00            | 13.77                                            | 14.00            |                 |
|         |                            |                      | 95      | 6425               | 10.23                                          | 10.50            | 11.02                                          | 11.50            | 13.75                                            | 14.00            |                 |
|         | UNII 6<br>(6.425-6.525GHz) | 802.11a 6Mbps        | 97      | 6435               | Not Required                                   | 1.00             | Not Required                                   | 0.50             | Not Required                                     | 4.00             | 99.32           |
|         |                            |                      | 105     | 6475               |                                                | 1.00             |                                                | 0.50             |                                                  | 4.00             |                 |
|         |                            |                      | 113     | 6515               |                                                | 1.00             |                                                | 0.50             |                                                  | 4.00             |                 |
|         |                            | 802.11ax-HE20 MCS0   | 97      | 6435               |                                                | 3.50             |                                                | 3.50             |                                                  | 6.50             | 100.00          |
|         |                            |                      | 105     | 6475               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            |                      | 113     | 6515               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            | 802.11ax-HE40 MCS0   | 99      | 6445               |                                                | 7.00             |                                                | 7.50             |                                                  | 10.00            | 100.00          |
|         |                            |                      | 115     | 6525               |                                                | 7.50             |                                                | 7.00             |                                                  | 10.00            |                 |
|         |                            |                      | 103     | 6465               |                                                | 10.00            |                                                | 10.50            |                                                  | 13.50            | 100.00          |
|         |                            | 802.11ax-HE80 MCS0   | 119     | 6545               |                                                | 10.00            |                                                | 10.00            |                                                  | 13.00            |                 |
|         |                            |                      | 111     | 6505               |                                                | 10.50            |                                                | 10.50            |                                                  | 13.50            | 100.00          |
|         |                            |                      | 97      | 6435               |                                                | 3.50             |                                                | 3.50             |                                                  | 6.50             | 100.00          |
|         |                            | 802.11be-EHT20 MCS0  | 105     | 6475               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            |                      | 113     | 6515               |                                                | 4.50             |                                                | 4.50             |                                                  | 7.50             |                 |
|         |                            |                      | 99      | 6445               |                                                | 7.00             |                                                | 7.50             |                                                  | 10.00            | 100.00          |
|         |                            | 802.11be-EHT40 MCS0  | 107     | 6485               |                                                | 7.00             |                                                | 7.50             |                                                  | 10.00            |                 |
|         |                            |                      | 115     | 6525               |                                                | 7.50             |                                                | 7.00             |                                                  | 10.00            |                 |
|         |                            |                      | 103     | 6465               |                                                | 10.00            |                                                | 10.50            |                                                  | 13.50            | 100.00          |
|         |                            | 802.11be-EHT80 MCS0  | 119     | 6545               |                                                | 10.00            |                                                | 10.50            |                                                  | 13.00            |                 |
|         |                            |                      | 111     | 6505               |                                                | 10.50            |                                                | 10.50            |                                                  | 13.50            | 100.00          |
|         |                            |                      | 127     | 6585               | 10.03                                          | 10.50            | 10.68                                          | 11.00            | 13.38                                            | 13.50            |                 |
|         | UNII 7<br>(6.525-6.885GHz) | 802.11a 6Mbps        | 117     | 6535               | Not Required                                   | 1.00             | Not Required                                   | 1.50             | Not Required                                     | 4.50             | 99.32           |
|         |                            |                      | 149     | 6695               |                                                | 1.00             |                                                | 2.00             |                                                  | 4.50             |                 |
|         |                            |                      | 173     | 6815               |                                                | 1.50             |                                                | 2.00             |                                                  | 4.50             |                 |
|         |                            | 802.11ax-HE20 MCS0   | 117     | 6535               |                                                | 5.00             |                                                | 4.50             |                                                  | 7.50             | 100.00          |
|         |                            |                      | 149     | 6695               |                                                | 5.00             |                                                | 5.00             |                                                  | 8.00             |                 |
|         |                            |                      | 173     | 6815               |                                                | 4.50             |                                                | 5.00             |                                                  | 8.00             | 100.00          |
|         |                            | 802.11ax-HE40 MCS0   | 123     | 6565               |                                                | 7.50             |                                                | 8.00             |                                                  | 11.00            |                 |
|         |                            |                      | 147     | 6685               |                                                | 7.50             |                                                | 8.00             |                                                  | 11.00            |                 |
|         |                            |                      | 179     | 6845               |                                                | 7.50             |                                                | 8.50             |                                                  | 11.00            | 100.00          |
|         |                            | 802.11ax-HE80 MCS0   | 135     | 6625               |                                                | 10.00            |                                                | 11.00            |                                                  | 14.00            |                 |
|         |                            |                      | 151     | 6705               |                                                | 10.00            |                                                | 11.50            |                                                  | 14.00            | 100.00          |
|         |                            |                      | 167     | 6785               |                                                | 10.00            |                                                | 11.00            |                                                  | 14.00            |                 |
|         |                            | 802.11ax-HE160 MCS0  | 143     | 6665               |                                                | 10.00            |                                                | 11.50            |                                                  | 14.00            | 100.00          |
|         |                            |                      |         |                    |                                                |                  |                                                |                  |                                                  |                  |                 |

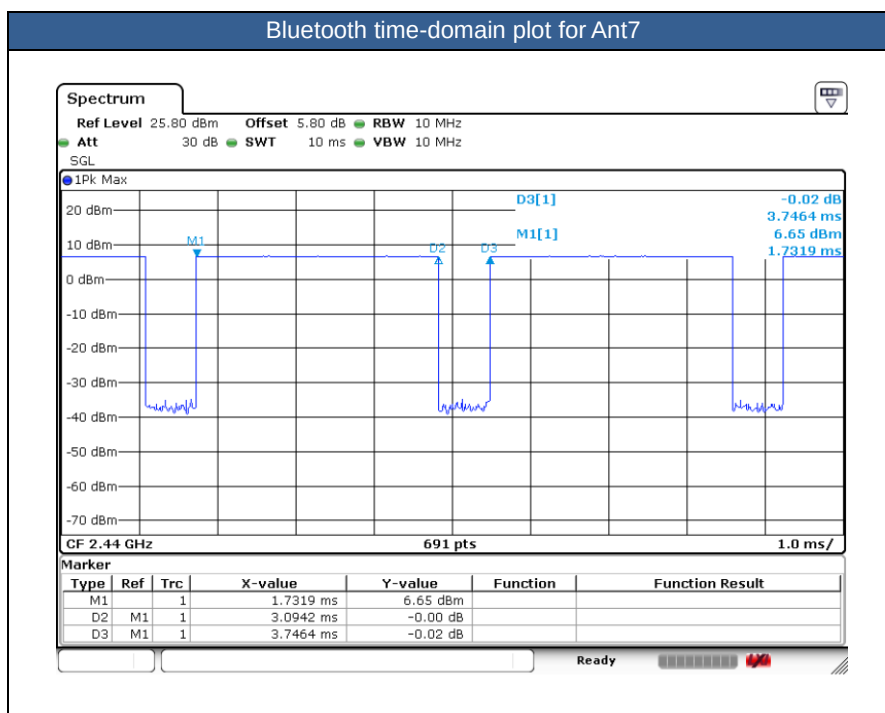
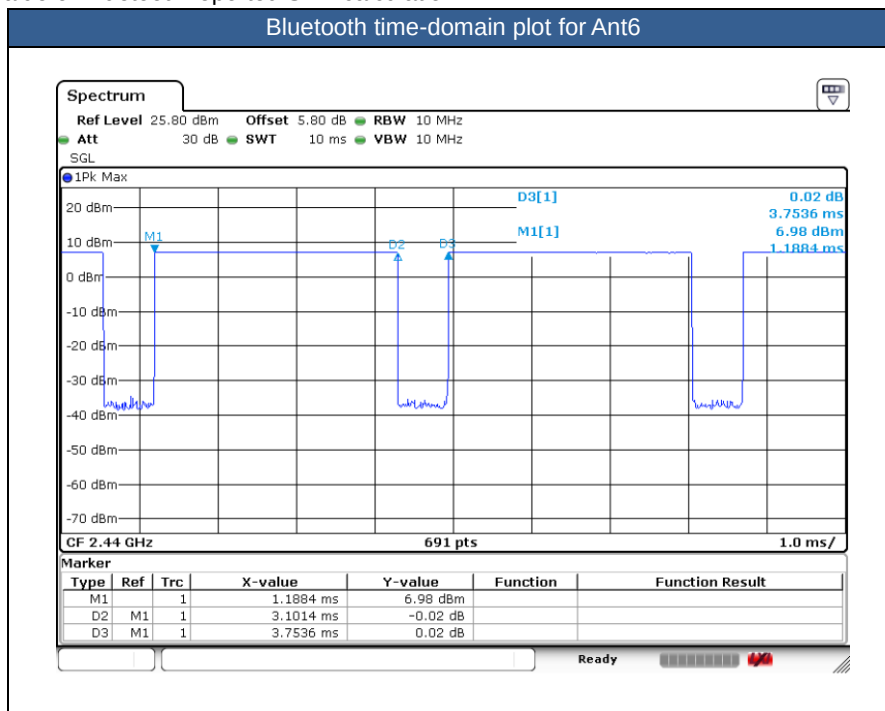


|                      |                            |                      |                     |       |              |       |              |       |              |        |        |        |  |  |  |
|----------------------|----------------------------|----------------------|---------------------|-------|--------------|-------|--------------|-------|--------------|--------|--------|--------|--|--|--|
|                      |                            | 802.11be-EHT20 MCS0  | 117                 | 6535  |              | 5.00  |              | 4.50  |              | 7.50   | 100.00 |        |  |  |  |
|                      |                            |                      | 149                 | 6695  |              | 5.00  |              | 5.00  |              | 8.00   |        |        |  |  |  |
|                      |                            |                      | 173                 | 6815  |              | 4.50  |              | 5.00  |              | 8.00   |        |        |  |  |  |
|                      |                            | 802.11be-EHT40 MCS0  | 123                 | 6565  |              | 7.50  |              | 8.00  |              | 11.00  | 100.00 |        |  |  |  |
|                      |                            |                      | 147                 | 6685  |              | 7.50  |              | 8.50  |              | 11.00  |        |        |  |  |  |
|                      |                            |                      | 179                 | 6845  |              | 7.50  |              | 8.50  |              | 11.00  |        |        |  |  |  |
|                      |                            | 802.11be-EHT80 MCS0  | 135                 | 6625  |              | 10.00 |              | 11.00 |              | 14.00  | 100.00 |        |  |  |  |
|                      |                            |                      | 151                 | 6705  |              | 10.00 |              | 11.50 |              | 14.00  |        |        |  |  |  |
|                      |                            |                      | 167                 | 6785  |              | 10.00 |              | 11.00 |              | 14.00  |        |        |  |  |  |
|                      |                            | 802.11be-EHT160 MCS0 | 143                 | 6665  |              | 10.00 |              | 11.50 |              | 14.00  | 100.00 |        |  |  |  |
|                      |                            | 802.11be-EHT320 MCS0 | 159                 | 6745  |              | 9.87  |              | 11.42 |              | 13.90  |        |        |  |  |  |
|                      |                            |                      |                     |       |              |       |              |       |              |        |        |        |  |  |  |
|                      | UNII 8<br>(6.885-7.125GHz) | 802.11a 6Mbps        | 189                 | 6895  |              | 1.50  |              | 2.00  |              | 4.50   | 99.32  |        |  |  |  |
|                      |                            |                      | 209                 | 6995  |              | 0.00  |              | 0.00  |              | 3.00   |        |        |  |  |  |
|                      |                            |                      | 229                 | 7095  |              | 0.00  |              | 0.50  |              | 3.50   |        |        |  |  |  |
|                      |                            |                      | 233                 | 7115  |              | 0.00  |              | 0.50  |              | 3.00   |        |        |  |  |  |
|                      |                            | 802.11ax-HE20 MCS0   | 189                 | 6895  |              | 5.00  |              | 5.00  |              | 8.00   | 100.00 |        |  |  |  |
|                      |                            |                      | 209                 | 6995  |              | 4.00  |              | 3.50  |              | 6.50   |        |        |  |  |  |
|                      |                            |                      | 229                 | 7095  |              | 3.50  |              | 3.50  |              | 6.50   |        |        |  |  |  |
|                      |                            |                      | 233                 | 7115  |              | -2.00 |              | -2.00 |              | 1.00   |        |        |  |  |  |
|                      |                            | 802.11ax-HE40 MCS0   | 195                 | 6925  |              | 9.00  |              | 8.50  |              | 11.50  | 100.00 |        |  |  |  |
|                      |                            |                      | 211                 | 7005  |              | 7.00  |              | 6.00  |              | 9.50   |        |        |  |  |  |
|                      |                            |                      | 227                 | 7085  |              | 6.50  |              | 7.00  |              | 9.50   |        |        |  |  |  |
|                      |                            | 802.11ax-HE80 MCS0   | 199                 | 6945  |              | 10.50 |              | 11.00 |              | 14.00  | 100.00 |        |  |  |  |
|                      |                            |                      | 215                 | 7025  |              | 9.50  |              | 9.50  |              | 12.50  |        |        |  |  |  |
|                      |                            | 802.11ax-HE160 MCS0  | 207                 | 6985  | Not Required | 11.00 | Not Required | 11.50 | Not Required | 14.50  | 100.00 |        |  |  |  |
|                      |                            |                      |                     |       |              |       |              |       |              |        |        |        |  |  |  |
|                      |                            |                      | 802.11be-EHT20 MCS0 | 189   | 6895         |       | 5.00         |       | 5.00         |        | 8.00   | 100.00 |  |  |  |
|                      |                            |                      |                     | 209   | 6995         |       | 4.00         |       | 3.50         |        | 6.50   |        |  |  |  |
|                      |                            |                      |                     | 229   | 7095         |       | 3.50         |       | 3.50         |        | 6.50   |        |  |  |  |
|                      |                            |                      |                     | 233   | 7115         |       | -2.00        |       | -2.00        |        | 1.00   |        |  |  |  |
|                      |                            |                      | 802.11be-EHT40 MCS0 | 195   | 6925         |       | 9.00         |       | 8.50         |        | 11.50  | 100.00 |  |  |  |
|                      |                            |                      |                     | 211   | 7005         |       | 7.00         |       | 6.00         |        | 9.50   |        |  |  |  |
|                      |                            |                      |                     | 227   | 7085         |       | 6.50         |       | 7.00         |        | 9.50   |        |  |  |  |
|                      |                            |                      | 802.11be-EHT80 MCS0 | 199   | 6945         |       | 10.50        |       | 11.00        |        | 14.00  | 100.00 |  |  |  |
|                      |                            |                      |                     | 215   | 7025         |       | 9.50         |       | 9.50         |        | 12.50  |        |  |  |  |
|                      | 802.11be-EHT160 MCS0       |                      | 207                 | 6985  |              | 11.00 |              | 11.50 |              | 14.50  | 100.00 |        |  |  |  |
|                      |                            |                      |                     |       |              |       |              |       |              |        |        |        |  |  |  |
| 802.11be-EHT320 MCS0 | 191                        |                      | 6905                | 10.68 | 11.00        | 11.37 | 11.50        | 14.05 | 14.50        | 100.00 |        |        |  |  |  |

## <2.4GHz Bluetooth>

### General Note:

1. For 2.4GHz Bluetooth SAR testing was selected 1Mbps, due to its highest average power.
2. The Bluetooth duty cycle are 82.62% for Ant6, 82.59% for Ant7, as following figure, Bluetooth SAR scaling need further consideration and the theoretical duty cycle is 83.3%, therefore the actual duty cycle will be scaled up to the theoretical value of Bluetooth reported SAR calculation.



**<Bluetooth\_Ant 6\_Full Power>**

| Mode             | Channel | Frequency (MHz) | Ant 6               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
|                  |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.91                | 7             | 77.06        |
|                  | 39      | 2441            | 6.86                | 7             | 77.06        |
|                  | 78      | 2480            | 6.04                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 5.38                | 7             | 30.87        |
|                  | 39      | 2441            | 6.54                | 7             | 30.87        |
|                  | 78      | 2480            | 5.64                | 7             | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 5.41                | 7             | 30.87        |
|                  | 39      | 2441            | 6.56                | 7             | 30.87        |
|                  | 78      | 2480            | 5.67                | 7             | 30.87        |
| LE 125kbps       | 0       | 2402            | 6.11                | 7.5           | 82.62        |
|                  | 19      | 2440            | 7.1                 | 7.5           | 82.62        |
|                  | 39      | 2480            | 6.19                | 7.5           | 82.62        |
| LE 500kbps       | 0       | 2402            | 6.05                | 7.5           | 56.76        |
|                  | 19      | 2440            | 7.07                | 7.5           | 56.76        |
|                  | 39      | 2480            | 6.19                | 7.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 6.15                | 7.5           | 65.05        |
|                  | 19      | 2440            | 7.25                | 7.5           | 65.05        |
|                  | 39      | 2480            | 6.27                | 7.5           | 65.05        |
| LE 2Mbps         | 0       | 2402            | 6.27                | 7.5           | 33.49        |
|                  | 19      | 2440            | 7.28                | 7.5           | 33.49        |
|                  | 39      | 2480            | 6.2                 | 7.5           | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 5.73                | 7             | 100          |
|                  | 38      | 2440            | 6.6                 | 7             | 100          |
|                  | 76      | 2478            | 5.86                | 7             | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.84                | 7             | 100          |
|                  | 38      | 2440            | 6.69                | 7             | 100          |
|                  | 76      | 2478            | 5.94                | 7             | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 5.77                | 7             | 100          |
|                  | 38      | 2440            | 6.64                | 7             | 100          |
|                  | 76      | 2478            | 5.89                | 7             | 100          |

**<Bluetooth\_Ant 6\_Standalone>**

| Mode             | Channel | Frequency (MHz) | Ant 6               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
|                  |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.91                | 7             | 77.06        |
|                  | 39      | 2441            | 6.86                | 7             | 77.06        |
|                  | 78      | 2480            | 6.04                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 5.38                | 7             | 30.87        |
|                  | 39      | 2441            | 6.54                | 7             | 30.87        |
|                  | 78      | 2480            | 5.64                | 7             | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 5.41                | 7             | 30.87        |
|                  | 39      | 2441            | 6.56                | 7             | 30.87        |
|                  | 78      | 2480            | 5.67                | 7             | 30.87        |
| LE 125kbps       | 0       | 2402            | 6.11                | 7.5           | 82.62        |
|                  | 19      | 2440            | 7.1                 | 7.5           | 82.62        |
|                  | 39      | 2480            | 6.19                | 7.5           | 82.62        |
| LE 500kbps       | 0       | 2402            | 6.05                | 7.5           | 56.76        |
|                  | 19      | 2440            | 7.07                | 7.5           | 56.76        |
|                  | 39      | 2480            | 6.19                | 7.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 6.15                | 7.5           | 65.05        |
|                  | 19      | 2440            | 7.25                | 7.5           | 65.05        |
|                  | 39      | 2480            | 6.27                | 7.5           | 65.05        |
| LE 2Mbps         | 0       | 2402            | 6.27                | 7.5           | 33.49        |
|                  | 19      | 2440            | 7.28                | 7.5           | 33.49        |
|                  | 39      | 2480            | 6.2                 | 7.5           | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 5.73                | 7             | 100          |
|                  | 38      | 2440            | 6.6                 | 7             | 100          |
|                  | 76      | 2478            | 5.86                | 7             | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.84                | 7             | 100          |
|                  | 38      | 2440            | 6.69                | 7             | 100          |
|                  | 76      | 2478            | 5.94                | 7             | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 5.77                | 7             | 100          |
|                  | 38      | 2440            | 6.64                | 7             | 100          |
|                  | 76      | 2478            | 5.89                | 7             | 100          |



## &lt;Bluetooth\_Ant 6\_Simultaneous&gt;

|                  |         |                 | Ant 6               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
| Mode             | Channel | Frequency (MHz) | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.91                | 7             | 77.06        |
|                  | 39      | 2441            | 6.86                | 7             | 77.06        |
|                  | 78      | 2480            | 6.04                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 5.38                | 7             | 30.87        |
|                  | 39      | 2441            | 6.54                | 7             | 30.87        |
|                  | 78      | 2480            | 5.64                | 7             | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 5.41                | 7             | 30.87        |
|                  | 39      | 2441            | 6.56                | 7             | 30.87        |
|                  | 78      | 2480            | 5.67                | 7             | 30.87        |
| LE 125kbps       | 0       | 2402            | 6.11                | 7.5           | 82.62        |
|                  | 19      | 2440            | 7.1                 | 7.5           | 82.62        |
|                  | 39      | 2480            | 6.19                | 7.5           | 82.62        |
| LE 500kbps       | 0       | 2402            | 6.05                | 7.5           | 56.76        |
|                  | 19      | 2440            | 7.07                | 7.5           | 56.76        |
|                  | 39      | 2480            | 6.19                | 7.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 6.15                | 7.5           | 65.05        |
|                  | 19      | 2440            | 7.25                | 7.5           | 65.05        |
|                  | 39      | 2480            | 6.27                | 7.5           | 65.05        |
| LE 2Mbps         | 0       | 2402            | 6.27                | 7.5           | 33.49        |
|                  | 19      | 2440            | 7.28                | 7.5           | 33.49        |
|                  | 39      | 2480            | 6.2                 | 7.5           | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 5.73                | 7             | 100          |
|                  | 38      | 2440            | 6.6                 | 7             | 100          |
|                  | 76      | 2478            | 5.86                | 7             | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.84                | 7             | 100          |
|                  | 38      | 2440            | 6.69                | 7             | 100          |
|                  | 76      | 2478            | 5.94                | 7             | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 5.77                | 7             | 100          |
|                  | 38      | 2440            | 6.64                | 7             | 100          |
|                  | 76      | 2478            | 5.89                | 7             | 100          |

## &lt;Bluetooth\_Ant 7\_Full Power&gt;

|                  |         |                 | Ant 7               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
| Mode             | Channel | Frequency (MHz) | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.11                | 7             | 77.06        |
|                  | 39      | 2441            | 6.55                | 7             | 77.06        |
|                  | 78      | 2480            | 5.99                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 4.64                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.25                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.51                | 6.5           | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 4.62                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.13                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.5                 | 6.5           | 30.87        |
| LE 125kbps       | 0       | 2402            | 5.26                | 7             | 82.59        |
|                  | 19      | 2440            | 6.55                | 7             | 82.59        |
|                  | 39      | 2480            | 5.91                | 7             | 82.59        |
| LE 500kbps       | 0       | 2402            | 5.18                | 6.5           | 56.76        |
|                  | 19      | 2440            | 6.35                | 6.5           | 56.76        |
|                  | 39      | 2480            | 5.96                | 6.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 5.32                | 7             | 65.05        |
|                  | 19      | 2440            | 6.65                | 7             | 65.05        |
|                  | 39      | 2480            | 6                   | 7             | 65.05        |
| LE 2Mbps         | 0       | 2402            | 5.35                | 7             | 33.49        |
|                  | 19      | 2440            | 6.87                | 7             | 33.49        |
|                  | 39      | 2480            | 6.27                | 7             | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 4.96                | 6.5           | 100          |
|                  | 38      | 2440            | 6.1                 | 6.5           | 100          |
|                  | 76      | 2478            | 5.71                | 6.5           | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.07                | 6.5           | 100          |
|                  | 38      | 2440            | 6.21                | 6.5           | 100          |
|                  | 76      | 2478            | 5.81                | 6.5           | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 4.99                | 6.5           | 100          |
|                  | 38      | 2440            | 6.13                | 6.5           | 100          |
|                  | 76      | 2478            | 5.76                | 6.5           | 100          |

**<Bluetooth\_Ant 7\_Standalone>**

| Mode             | Channel | Frequency (MHz) | Ant 7               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
|                  |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.11                | 7             | 77.06        |
|                  | 39      | 2441            | 6.55                | 7             | 77.06        |
|                  | 78      | 2480            | 5.99                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 4.64                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.25                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.51                | 6.5           | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 4.62                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.13                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.5                 | 6.5           | 30.87        |
| LE 125kbps       | 0       | 2402            | 5.26                | 7             | 82.59        |
|                  | 19      | 2440            | 6.55                | 7             | 82.59        |
|                  | 39      | 2480            | 5.91                | 7             | 82.59        |
| LE 500kbps       | 0       | 2402            | 5.18                | 6.5           | 56.76        |
|                  | 19      | 2440            | 6.35                | 6.5           | 56.76        |
|                  | 39      | 2480            | 5.96                | 6.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 5.32                | 7             | 65.05        |
|                  | 19      | 2440            | 6.65                | 7             | 65.05        |
|                  | 39      | 2480            | 6                   | 7             | 65.05        |
| LE 2Mbps         | 0       | 2402            | 5.35                | 7             | 33.49        |
|                  | 19      | 2440            | 6.87                | 7             | 33.49        |
|                  | 39      | 2480            | 6.27                | 7             | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 4.96                | 6.5           | 100          |
|                  | 38      | 2440            | 6.1                 | 6.5           | 100          |
|                  | 76      | 2478            | 5.71                | 6.5           | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.07                | 6.5           | 100          |
|                  | 38      | 2440            | 6.21                | 6.5           | 100          |
|                  | 76      | 2478            | 5.81                | 6.5           | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 4.99                | 6.5           | 100          |
|                  | 38      | 2440            | 6.13                | 6.5           | 100          |
|                  | 76      | 2478            | 5.76                | 6.5           | 100          |

**<Bluetooth\_Ant 7\_Simultaneous>**

| Mode             | Channel | Frequency (MHz) | Ant 7               |               |              |
|------------------|---------|-----------------|---------------------|---------------|--------------|
|                  |         |                 | Average Power (dBm) | Tune-Up Limit | Duty Cycle % |
| BR / EDR 1Mbps   | 0       | 2402            | 5.11                | 7             | 77.06        |
|                  | 39      | 2441            | 6.55                | 7             | 77.06        |
|                  | 78      | 2480            | 5.99                | 7             | 77.06        |
| BR / EDR 2Mbps   | 0       | 2402            | 4.64                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.25                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.51                | 6.5           | 30.87        |
| BR / EDR 3Mbps   | 0       | 2402            | 4.62                | 6.5           | 30.87        |
|                  | 39      | 2441            | 6.13                | 6.5           | 30.87        |
|                  | 78      | 2480            | 5.5                 | 6.5           | 30.87        |
| LE 125kbps       | 0       | 2402            | 5.26                | 7             | 82.59        |
|                  | 19      | 2440            | 6.55                | 7             | 82.59        |
|                  | 39      | 2480            | 5.91                | 7             | 82.59        |
| LE 500kbps       | 0       | 2402            | 5.18                | 6.5           | 56.76        |
|                  | 19      | 2440            | 6.35                | 6.5           | 56.76        |
|                  | 39      | 2480            | 5.96                | 6.5           | 56.76        |
| LE 1Mbps         | 0       | 2402            | 5.32                | 7             | 65.05        |
|                  | 19      | 2440            | 6.65                | 7             | 65.05        |
|                  | 39      | 2480            | 6                   | 7             | 65.05        |
| LE 2Mbps         | 0       | 2402            | 5.35                | 7             | 33.49        |
|                  | 19      | 2440            | 6.87                | 7             | 33.49        |
|                  | 39      | 2480            | 6.27                | 7             | 33.49        |
| BT6.0 GFSK 1Mbps | 2       | 2404            | 4.96                | 6.5           | 100          |
|                  | 38      | 2440            | 6.1                 | 6.5           | 100          |
|                  | 76      | 2478            | 5.71                | 6.5           | 100          |
| BT6.0 GFSK 2Mbps | 2       | 2404            | 5.07                | 6.5           | 100          |
|                  | 38      | 2440            | 6.21                | 6.5           | 100          |
|                  | 76      | 2478            | 5.81                | 6.5           | 100          |
| BT6.0 ASK 1Mbps  | 2       | 2404            | 4.99                | 6.5           | 100          |
|                  | 38      | 2440            | 6.13                | 6.5           | 100          |
|                  | 76      | 2478            | 5.76                | 6.5           | 100          |

## 14. Antenna Location

The detailed antenna location information can refer to SAR Test Setup Photos.

### <SAR test exclusion table>

#### General Note:

- The below table, when the distance is < 50 mm exclusion threshold is "Ratio", when the distance is > 50 mm exclusion threshold is "mW"
- Maximum power is the source-based time-average power and represents the maximum RF output power among production units
- Per KDB 447498 D01v06, for larger devices, the test separation distance of adjacent edge configuration is determined by the closest separation between the antenna and the user.
- Per KDB 447498 D01v06, standalone SAR test exclusion threshold is applied; If the test separation distance is < 5mm, 5mm is used to determine SAR exclusion threshold.
- Per KDB 447498 D01v06, 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:  

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR}$$
  - f(GHz) is the RF channel transmit frequency in GHz
  - Power and distance are rounded to the nearest mW and mm before calculation
  - The result is rounded to one decimal place for comparison
- Per KDB 447498 D01v06, at 100 MHz to 6 GHz and for *test separation distances* > 50 mm, the SAR test exclusion threshold is determined according to the following
  - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · ( f(MHz)/150)] mW, at 100 MHz to 1500 MHz
  - [Threshold at 50 mm in step 1) + (test separation distance - 50 mm) · 10] mW at > 1500 MHz and ≤ 6 GHz

| Exposure Position | Wireless Interface         | BT ANT 6 | BT ANT 7 | 2.4GHz WLAN ANT 6 | 2.4GHz WLAN ANT 7 | 5GHz WLAN ANT 6 | 5GHz WLAN ANT 7 | 6GHz WLAN ANT 6 | 6GHz WLAN ANT 7 |
|-------------------|----------------------------|----------|----------|-------------------|-------------------|-----------------|-----------------|-----------------|-----------------|
|                   | Calculated Frequency (MHz) | 2480.0   | 2480.0   | 2462.0            | 2462.0            | 5825.0          | 5825.0          | 5985.0          | 5985.0          |
|                   | Maximum power (dBm)        | 7.5      | 7        | 22.5              | 24                | 19.5            | 19.5            | 20              | 20              |
|                   | Maximum rated power(mW)    | 6.0      | 5.0      | 178.0             | 251.0             | 89.0            | 89.0            | 100.0           | 100.0           |
| Bottom Face       | Separation distance(mm)    | 5.0      | 5.0      | 5.0               | 5.0               | 5.0             | 5.0             | 5.0             | 5.0             |
|                   | exclusion threshold        | 2.7      | 2.7      | 2.7               | 2.7               | 1.4             | 1.4             | 1.3             | 1.3             |
|                   | Testing required?          | Yes      | Yes      | Yes               | Yes               | Yes             | Yes             | Yes             | Yes             |
| Edge 1            | Separation distance(mm)    | 125.6    | 5.0      | 125.6             | 5.0               | 125.6           | 5.0             | 125.6           | 5.0             |
|                   | exclusion threshold        | 1260.9   | 2.7      | 1261.8            | 2.7               | 1156.6          | 1.4             | 1153.4          | 1.3             |
|                   | Testing required?          | No       | Yes      | No                | Yes               | No              | Yes             | No              | Yes             |
| Edge 2            | Separation distance(mm)    | 126.5    | 85.2     | 126.5             | 85.2              | 126.5           | 85.2            | 126.5           | 85.2            |
|                   | exclusion threshold        | 1278.1   | 602.0    | 1279.1            | 602.9             | 1174.0          | 513.9           | 1170.8          | 511.3           |
|                   | Testing required?          | No       | No       | No                | No                | No              | No              | No              | No              |
| Edge 3            | Separation distance(mm)    | 63.4     | 209.7    | 63.4              | 209.7             | 63.4            | 209.7           | 63.4            | 209.7           |
|                   | exclusion threshold        | 343.0    | 3060.0   | 343.7             | 3060.0            | 277.2           | 3060.0          | 275.4           | 3060.0          |
|                   | Testing required?          | No       | No       | No                | No                | No              | No              | No              | No              |
| Edge 4            | Separation distance(mm)    | 5.0      | 13.7     | 5.0               | 13.7              | 5.0             | 13.7            | 5.0             | 13.7            |
|                   | exclusion threshold        | 2.7      | 18.4     | 2.7               | 18.5              | 1.4             | 11.2            | 1.3             | 11.0            |
|                   | Testing required?          | Yes      | No       | Yes               | Yes               | Yes             | Yes             | Yes             | Yes             |

## 15. SAR Test Results

### General Note:

1. Per KDB 447498 D01v06, the reported SAR is the measured SAR value adjusted for maximum tune-up tolerance.
  - a. Tune-up scaling Factor = tune-up limit power (mW) / EUT RF power (mW), where tune-up limit is the maximum rated power among all production units.
  - b. For SAR testing of WLAN signal with non-100% duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle)"
  - c. For SAR testing of Bluetooth signal with 83.3% theoretical duty cycle, the measured SAR is scaled-up by the duty cycle scaling factor which is equal to "1/(duty cycle) \*83.3%".
  - d. For WLAN/Bluetooth: Reported SAR(W/kg)= Measured SAR(W/kg)\* Duty Cycle scaling factor \* Tune-up scaling factor
2. Per KDB 447498 D01v06, for each exposure position, testing of other required channels within the operating mode of a frequency band is not required when the reported 1-g or 10-g SAR for the mid-band or highest output power channel is:
  - $\leq 0.8$  W/kg or 2.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\leq 100$  MHz
  - $\leq 0.6$  W/kg or 1.5 W/kg, for 1-g or 10-g respectively, when the transmission band is between 100 MHz and 200 MHz
  - $\leq 0.4$  W/kg or 1.0 W/kg, for 1-g or 10-g respectively, when the transmission band is  $\geq 200$  MHz
3. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8$ W/kg.
4. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors.
5. Per October 2020 TCB Workshop Interim procedures, start instead with a minimum of 5 test channels across the full band, then adapt and apply conducted power and SAR test reduction procedures of KDB Pub. 248227 v02r02.
6. For testing the WLAN 6GHz of this DUT, the selection of test channels was based on FCC guidance, with five channels selected across the entire WLAN 6GHz Bands. For the U-NII-5/U-NII-7 band supporting Standard AP mode and indoor Client mode, the higher output mode was measured among the selected channels.
7. For determination of the scaling factor for report SAR of MIMO mode, if the hot spots are separated the scaling factors are individually determined from each transmit chain. Further simplification chose the worse SAR value and the worst scaling factor from each transmit chain perform reported SAR calculation conservatively. If the hot spots are not spatially separated, the scaling factor is determined from the worst number of each transmit chain.
8. Absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements.
9. WLAN 6GHz is categorized into three classes: Standard Client, Indoor Client and VLP (Very Low Power). Since the power level of Standard Client and Indoor Client is not less than power VLP (Very Low Power), so SAR for Standard Client and Indoor Client is evaluated more conservatively than VLP (Very Low Power) SAR. However, VLP (Very Low Power) SAR still spot-checks the worst-case SAR of Standard Client and Indoor Client.

### WLAN/Bluetooth Note:

1. Per KDB 248227 D01v02r02, for 2.4GHz 802.11g/n SAR testing is not required when the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is  $\leq 1.2$  W/kg.
2. Per KDB 248227 D01v02r02, U-NII-1 SAR testing is not required when the U-NII-2A band highest reported SAR for a test configuration is  $\leq 1.2$  W/kg, SAR is not required for U-NII-1 band.
3. When the reported SAR of the test position is  $> 0.4$  W/kg, SAR is repeated for the 802.11 transmission mode configuration tested in the initial test position to measure the subsequent next closet/smallest test separation distance and maximum coupling test position on the highest maximum output power channel, until the report SAR is  $\leq 0.8$  W/kg or all required test position are tested.
4. For all positions / configurations, when the reported SAR is  $> 0.8$  W/kg, SAR is measured for these test positions / configurations on the subsequent next highest measured output power channel(s) until the reported SAR is  $\leq 1.2$  W/kg or all required channels are tested.
5. During SAR testing the WLAN transmission was verified using a spectrum analyzer.
6. 802.11ax/be supports full tone size and partial tone size, after verification for the partial tone size mode power level will not higher than full tone size power level, so chose full tone power to be measured in this report.
7. The 2.4GHz/5GHz/6GHz WLAN can transmit in SISO/MIMO antenna mode.
8. For each antenna, transmit power in SISO operation is larger than or equal to the power in MIMO operation, RF exposure compliance of MIMO mode can be deduced from the compliance simultaneous transmission of antennas operating in SISO mode. So WLAN SAR testing was performed on SISO antenna, MIMO SAR base on standalone SAR summed together as MIMO SAR.

**Power Density General Notes:**

1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
2. Batteries are fully charged at the beginning of the measurements.
3. Absorbed power density (APD) using a 4cm<sup>2</sup> averaging area is reported based on SAR measurements.
4. Power density was calculated by repeated E-field measurements on two measurement planes separated by  $\lambda/4$ .
5. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
6. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
7. Per April 2021 TCB Workshop and KDB 388624 D02v18r08, For the highest SAR test configurations also measure incident PD (total) using power-density reconstruction method in 2 mm closest measurement plane.
8. Per October 2020 TCB Workshop, PTP-PR algorithm was used during psPD measurement and calculations.
9. The measurement procedure consists of measuring the PDinc at two different distances: 2 mm (compliance distance) and  $\lambda/5$ . The grid extents should be large enough to fully capture the transmitted energy. The grid step should be fine enough to demonstrate that the integrated Power Density iPDn fulfill the criterion described below. Since iPD ratio between the two distances is  $\geq -1$ dB, the grid step (0.0625) was sufficient for determining compliance at d=2mm.

$$10 \cdot \log_{10} \frac{iPD_n(2mm)}{iPD_n(\lambda/5)} \geq -1$$



## 15.1 Body SAR

[WLAN 2.4GHz\_5GHz SAR]

| Plot No | Band                | Mode                 | Test Position | Gap (mm) | Antenna | Power State  | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-Up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---------|---------------------|----------------------|---------------|----------|---------|--------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 6   | Standalone   | 6   | 2437        | 13.71               | 14.00               | 1.069                  | 97.03        | 1.031                     | -0.03            | 0.741                  | 0.817                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 6   | Standalone   | 1   | 2412        | 13.62               | 14.00               | 1.091                  | 97.03        | 1.031                     | 0.02             | 0.903                  | 1.016                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 6   | Standalone   | 11  | 2462        | 13.61               | 14.00               | 1.094                  | 97.03        | 1.031                     | -0.06            | 0.599                  | 0.676                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 6   | Simultaneous | 6   | 2437        | 12.29               | 12.50               | 1.05                   | 97.03        | 1.031                     | 0.03             | 0.629                  | 0.681                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge4         | 0mm      | Ant 6   | Standalone   | 6   | 2437        | 13.71               | 14.00               | 1.069                  | 97.03        | 1.031                     | 0.05             | 0.226                  | 0.249                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge4         | 0mm      | Ant 6   | Simultaneous | 6   | 2437        | 12.29               | 12.50               | 1.05                   | 97.03        | 1.031                     | 0.04             | 0.168                  | 0.182                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 28mm     | Ant 6   | Full Power   | 6   | 2437        | 20.45               | 20.50               | 1.012                  | 97.03        | 1.031                     | 0.18             | 0.071                  | 0.074                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge4         | 30mm     | Ant 6   | Full Power   | 6   | 2437        | 20.45               | 20.50               | 1.012                  | 97.03        | 1.031                     | -0.03            | 0.112                  | 0.117                  |
|         | WLAN2.4GHz Sample 2 | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 6   | Standalone   | 1   | 2412        | 13.62               | 14.00               | 1.091                  | 97.03        | 1.031                     | 0.08             | 0.889                  | 1.000                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 7   | Standalone   | 6   | 2437        | 17.89               | 18.00               | 1.026                  | 97.03        | 1.031                     | 0.06             | 0.427                  | 0.452                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 0mm      | Ant 7   | Simultaneous | 6   | 2437        | 15.85               | 16.00               | 1.035                  | 97.03        | 1.031                     | 0.01             | 0.259                  | 0.276                  |
| 01      | WLAN2.4GHz          | 802.11b 1Mbps        | Edge1         | 0mm      | Ant 7   | Standalone   | 6   | 2437        | 17.89               | 18.00               | 1.026                  | 97.03        | 1.031                     | -0.03            | 0.986                  | 1.043                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge1         | 0mm      | Ant 7   | Standalone   | 1   | 2412        | 17.66               | 18.00               | 1.081                  | 97.03        | 1.031                     | 0.12             | 0.534                  | 0.595                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge1         | 0mm      | Ant 7   | Standalone   | 11  | 2462        | 17.71               | 18.00               | 1.069                  | 97.03        | 1.031                     | -0.02            | 0.529                  | 0.583                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge1         | 0mm      | Ant 7   | Simultaneous | 6   | 2437        | 15.85               | 16.00               | 1.035                  | 97.03        | 1.031                     | 0.09             | 0.620                  | 0.662                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge2         | 0mm      | Ant 7   | Full Power   | 6   | 2437        | 20.42               | 20.50               | 1.019                  | 97.03        | 1.031                     | 0.02             | 0.713                  | 0.749                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge4         | 0mm      | Ant 7   | Full Power   | 6   | 2437        | 20.42               | 20.50               | 1.019                  | 97.03        | 1.031                     | 0.06             | 0.697                  | 0.732                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Bottom face   | 20mm     | Ant 7   | Full Power   | 6   | 2437        | 20.42               | 20.50               | 1.019                  | 97.03        | 1.031                     | 0.03             | 0.172                  | 0.181                  |
|         | WLAN2.4GHz          | 802.11b 1Mbps        | Edge1         | 24mm     | Ant 7   | Full Power   | 6   | 2437        | 20.42               | 20.50               | 1.019                  | 97.03        | 1.031                     | -0.01            | 0.191                  | 0.201                  |
|         | WLAN2.4GHz Sample 2 | 802.11b 1Mbps        | Edge1         | 0mm      | Ant 7   | Standalone   | 6   | 2437        | 17.89               | 18.00               | 1.026                  | 97.03        | 1.031                     | -0.04            | 0.968                  | 1.024                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 58  | 5290        | 7.02                | 7.50                | 1.117                  | 100.0        | 1.0                       | -0.06            | 0.863                  | 0.964                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Bottom face   | 0mm      | Ant 6   | Simultaneous | 64  | 5320        | 6.04                | 6.50                | 1.112                  | 98.97        | 1.01                      | 0.08             | 0.603                  | 0.677                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 58  | 5290        | 7.02                | 7.50                | 1.117                  | 100.0        | 1.0                       | 0.01             | 0.933                  | 1.042                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Edge4         | 0mm      | Ant 6   | Simultaneous | 64  | 5320        | 6.04                | 6.50                | 1.112                  | 98.97        | 1.01                      | -0.01            | 0.655                  | 0.736                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Bottom face   | 28mm     | Ant 6   | Full Power   | 60  | 5300        | 18.85               | 19.00               | 1.035                  | 98.97        | 1.01                      | 0.09             | 0.370                  | 0.387                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Edge4         | 30mm     | Ant 6   | Full Power   | 60  | 5300        | 18.85               | 19.00               | 1.035                  | 98.97        | 1.01                      | 0.04             | 0.525                  | 0.549                  |
|         | WLAN5GHz Sample 2   | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 58  | 5290        | 7.02                | 7.5                 | 1.117                  | 100          | 1.0                       | -0.07            | 0.896                  | 1.001                  |
| 02      | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 7   | Standalone   | 58  | 5290        | 7.62                | 8.00                | 1.091                  | 100.0        | 1.0                       | -0.04            | 0.979                  | 1.068                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 7   | Simultaneous | 58  | 5290        | 5.06                | 5.50                | 1.107                  | 100.0        | 1.0                       | -0.03            | 0.559                  | 0.619                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge1         | 0mm      | Ant 7   | Standalone   | 58  | 5290        | 7.62                | 8.00                | 1.091                  | 100.0        | 1.0                       | 0.06             | 0.833                  | 0.909                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge1         | 0mm      | Ant 7   | Simultaneous | 58  | 5290        | 5.06                | 5.50                | 1.107                  | 100.0        | 1.0                       | 0.04             | 0.521                  | 0.577                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Edge4         | 0mm      | Ant 7   | Full Power   | 56  | 5280        | 19.14               | 19.50               | 1.086                  | 99.32        | 1.007                     | 0.12             | 0.276                  | 0.302                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Bottom face   | 20mm     | Ant 7   | Full Power   | 56  | 5280        | 19.14               | 19.50               | 1.086                  | 99.32        | 1.007                     | 0.16             | 0.458                  | 0.501                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Edge1         | 24mm     | Ant 7   | Full Power   | 56  | 5280        | 19.14               | 19.50               | 1.086                  | 99.32        | 1.007                     | -0.04            | 0.345                  | 0.377                  |
|         | WLAN5GHz Sample 2   | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 7   | Standalone   | 58  | 5290        | 7.62                | 8                   | 1.091                  | 100          | 1.0                       | 0.03             | 0.972                  | 1.06                   |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 106 | 5530        | 8.02                | 8.50                | 1.117                  | 100.0        | 1.0                       | 0.06             | 0.882                  | 0.985                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 122 | 5610        | 7.87                | 8.00                | 1.03                   | 100.0        | 1.0                       | -0.04            | 0.767                  | 0.790                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 138 | 5690        | 7.71                | 8.00                | 1.069                  | 100.0        | 1.0                       | 0.05             | 0.795                  | 0.850                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Simultaneous | 106 | 5530        | 7.02                | 7.50                | 1.117                  | 100.0        | 1.0                       | 0.01             | 0.689                  | 0.770                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 106 | 5530        | 8.02                | 8.50                | 1.117                  | 100.0        | 1.0                       | 0.03             | 0.897                  | 1.002                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 122 | 5610        | 7.87                | 8.00                | 1.03                   | 100.0        | 1.0                       | -0.01            | 0.814                  | 0.838                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 138 | 5690        | 7.71                | 8.00                | 1.069                  | 100.0        | 1.0                       | 0.01             | 0.869                  | 0.929                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Simultaneous | 106 | 5530        | 7.02                | 7.50                | 1.117                  | 100.0        | 1.0                       | 0.03             | 0.683                  | 0.763                  |
|         | WLAN5GHz            | 802.11be-EHT40 MCS0  | Bottom face   | 28mm     | Ant 6   | Full Power   | 110 | 5550        | 19.04               | 19.50               | 1.112                  | 100.0        | 1.0                       | -0.05            | 0.300                  | 0.334                  |
|         | WLAN5GHz            | 802.11be-EHT40 MCS0  | Edge4         | 30mm     | Ant 6   | Full Power   | 110 | 5550        | 19.04               | 19.50               | 1.112                  | 100.0        | 1.0                       | 0.14             | 0.532                  | 0.592                  |
|         | WLAN5GHz Sample 2   | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 106 | 5530        | 8.02                | 8.5                 | 1.117                  | 100          | 1.0                       | 0.07             | 0.837                  | 0.935                  |
|         | WLAN5GHz            | 802.11ac-VHT160 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 114 | 5570        | 9.09                | 9.50                | 1.099                  | 100.0        | 1.0                       | 0.06             | 0.900                  | 0.989                  |
|         | WLAN5GHz            | 802.11ac-VHT160 MCS0 | Bottom face   | 0mm      | Ant 7   | Simultaneous | 114 | 5570        | 7.69                | 8.00                | 1.074                  | 100.0        | 1.0                       | 0.01             | 0.631                  | 0.678                  |
| 03      | WLAN5GHz            | 802.11ac-VHT160 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 114 | 5570        | 9.09                | 9.50                | 1.099                  | 100.0        | 1.0                       | -0.02            | 0.936                  | 1.029                  |
|         | WLAN5GHz            | 802.11ac-VHT160 MCS0 | Edge1         | 0mm      | Ant 7   | Simultaneous | 114 | 5570        | 7.69                | 8.00                | 1.074                  | 100.0        | 1.0                       | -0.03            | 0.652                  | 0.700                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 7   | Full Power   | 138 | 5690        | 19.09               | 19.50               | 1.099                  | 100.0        | 1.0                       | 0.06             | 0.317                  | 0.348                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 20mm     | Ant 7   | Full Power   | 138 | 5690        | 19.09               | 19.50               | 1.099                  | 100.0        | 1.0                       | 0.08             | 0.444                  | 0.488                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge1         | 24mm     | Ant 7   | Full Power   | 138 | 5690        | 19.09               | 19.50               | 1.099                  | 100.0        | 1.0                       | 0.07             | 0.273                  | 0.300                  |
|         | WLAN5GHz Sample 2   | 802.11ac-VHT160 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 114 | 5570        | 9.09                | 9.5                 | 1.099                  | 100          | 1.0                       | 0.06             | 0.916                  | 1.007                  |
| 04      | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 155 | 5775        | 8.57                | 9.00                | 1.104                  | 100.0        | 1.0                       | -0.09            | 0.985                  | 1.087                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Simultaneous | 155 | 5775        | 7.28                | 7.50                | 1.052                  | 100.0        | 1.0                       | 0.02             | 0.659                  | 0.693                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Standalone   | 155 | 5775        | 8.57                | 9.00                | 1.104                  | 100.0        | 1.0                       | -0.06            | 0.665                  | 0.734                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge4         | 0mm      | Ant 6   | Simultaneous | 155 | 5775        | 7.28                | 7.50                | 1.052                  | 100.0        | 1.0                       | 0.05             | 0.484                  | 0.509                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Bottom face   | 28mm     | Ant 6   | Full Power   | 157 | 5785        | 19.02               | 19.50               | 1.117                  | 98.97        | 1.01                      | 0.01             | 0.207                  | 0.234                  |
|         | WLAN5GHz            | 802.11a 6Mbps        | Edge4         | 30mm     | Ant 6   | Full Power   | 157 | 5785        | 19.02               | 19.50               | 1.117                  | 98.97        | 1.01                      | -0.15            | 0.265                  | 0.299                  |
|         | WLAN5GHz Sample 2   | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 6   | Standalone   | 155 | 5775        | 8.57                | 9                   | 1.104                  | 100          | 1.0                       | 0.06             | 0.898                  | 0.991                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 7   | Standalone   | 155 | 5775        | 11.35               | 11.50               | 1.035                  | 100.0        | 1.0                       | -0.14            | 0.790                  | 0.818                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Bottom face   | 0mm      | Ant 7   | Simultaneous | 155 | 5775        | 9.77                | 10.00               | 1.054                  | 100.0        | 1.0                       | 0.04             | 0.562                  | 0.592                  |
|         | WLAN5GHz            | 802.11ac-VHT80 MCS0  | Edge1         | 0mm      | Ant 7   | Standalone   | 155 | 5775        | 11.35               | 11.50               | 1.035                  | 100.0        | 1.0                       | 0.01             | 0.960                  | 0.994                  |



# FCC SAR Test Report

Report No. : FA551202

|  |                      |                     |             |      |       |              |     |      |       |       |       |       |       |       |       |       |
|--|----------------------|---------------------|-------------|------|-------|--------------|-----|------|-------|-------|-------|-------|-------|-------|-------|-------|
|  | WLAN5GHz             | 802.11ac-VHT80 MCS0 | Edge1       | 0mm  | Ant 7 | Simultaneous | 155 | 5775 | 9.77  | 10.00 | 1.054 | 100.0 | 1.0   | 0.01  | 0.662 | 0.698 |
|  | WLAN5GHz             | 802.11a 6Mbps       | Edge4       | 0mm  | Ant 7 | Full Power   | 157 | 5785 | 19.36 | 19.50 | 1.033 | 99.32 | 1.007 | -0.12 | 0.342 | 0.356 |
|  | WLAN5GHz             | 802.11a 6Mbps       | Bottom face | 20mm | Ant 7 | Full Power   | 157 | 5785 | 19.36 | 19.50 | 1.033 | 99.32 | 1.007 | -0.06 | 0.245 | 0.255 |
|  | WLAN5GHz             | 802.11a 6Mbps       | Edge1       | 24mm | Ant 7 | Full Power   | 157 | 5785 | 19.36 | 19.50 | 1.033 | 99.32 | 1.007 | 0.07  | 0.180 | 0.187 |
|  | WLAN5GHz<br>Sample 2 | 802.11ac-VHT80 MCS0 | Edge1       | 0mm  | Ant 7 | Standalone   | 155 | 5775 | 11.35 | 11.5  | 1.035 | 100   | 1.0   | -0.02 | 0.872 | 0.903 |

## 【WLAN 6GHz SAR】

| Plot No | Band                 | Mode                 | Test Position | Gap (mm) | Antenna | Power State  | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-Up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Measured APD (W/m <sup>2</sup> ) |
|---------|----------------------|----------------------|---------------|----------|---------|--------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|----------------------------------|
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 31  | 6105        | 13.38               | 13.50               | 1.028                  | 100.0        | 1.0                       | 0.09             | 0.987                  | 1.015                  | 5.140                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 63  | 6265        | 12.80               | 13.00               | 1.047                  | 100.0        | 1.0                       | -0.10            | 0.921                  | 0.964                  | 5.290                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 95  | 6425        | 11.55               | 12.00               | 1.109                  | 100.0        | 1.0                       | -0.03            | 0.997                  | 1.106                  | 6.220                            |
| 05      | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 127 | 6585        | 11.59               | 12.00               | 1.099                  | 100.0        | 1.0                       | -0.06            | 1.010                  | 1.110                  | 7.080                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 159 | 6745        | 11.46               | 11.50               | 1.009                  | 100.0        | 1.0                       | 0.04             | 1.030                  | 1.039                  | 6.890                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 191 | 6905        | 12.04               | 12.50               | 1.112                  | 100.0        | 1.0                       | -0.07            | 0.997                  | 1.109                  | 6.510                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Simultaneous | 127 | 6585        | 10.19               | 10.50               | 1.074                  | 100.0        | 1.0                       | -0.01            | 0.722                  | 0.775                  | 5.140                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge4         | 0mm      | Ant 6   | Standalone   | 31  | 6105        | 13.38               | 13.50               | 1.028                  | 100.0        | 1.0                       | 0.05             | 0.734                  | 0.755                  | 4.230                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge4         | 0mm      | Ant 6   | Simultaneous | 31  | 6105        | 11.81               | 12.00               | 1.045                  | 100.0        | 1.0                       | -0.09            | 0.501                  | 0.524                  | 3.130                            |
|         | WLAN6GHz             | 802.11ax-HE20 MCS0   | Bottom face   | 28mm     | Ant 6   | Full Power   | 173 | 6815        | 19.62               | 20.00               | 1.091                  | 100.0        | 1.0                       | 0.02             | 0.102                  | 0.111                  | 0.523                            |
|         | WLAN6GHz             | 802.11ax-HE20 MCS0   | Edge4         | 30mm     | Ant 6   | Full Power   | 173 | 6815        | 19.62               | 20.00               | 1.091                  | 100.0        | 1.0                       | -0.05            | 0.233                  | 0.254                  | 1.140                            |
|         | WLAN6GHz<br>Sample 2 | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 127 | 6585        | 11.59               | 12                  | 1.099                  | 100          | 1.0                       | -0.06            | 0.975                  | 1.072                  | 6.810                            |
|         | WLAN6GHz VLP         | 802.11be-EHT160 MCS0 | Bottom face   | 0mm      | Ant 6   | Standalone   | 207 | 6985        | 11.02               | 11.5                | 1.117                  | 100          | 1.0                       | -0.03            | 0.805                  | 0.899                  | 5.230                            |
| 06      | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 191 | 6905        | 13.83               | 14.00               | 1.04                   | 100.0        | 1.0                       | 0.03             | 1.130                  | 1.175                  | 5.690                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 31  | 6105        | 12.98               | 13.00               | 1.005                  | 100.0        | 1.0                       | -0.02            | 1.030                  | 1.035                  | 5.290                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 63  | 6265        | 12.28               | 12.50               | 1.052                  | 100.0        | 1.0                       | 0.08             | 1.070                  | 1.126                  | 5.610                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 95  | 6425        | 13.37               | 13.50               | 1.03                   | 100.0        | 1.0                       | -0.09            | 0.987                  | 1.017                  | 5.290                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 127 | 6585        | 13.34               | 13.50               | 1.038                  | 100.0        | 1.0                       | 0.05             | 1.110                  | 1.152                  | 5.150                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 159 | 6745        | 13.28               | 13.50               | 1.052                  | 100.0        | 1.0                       | 0.01             | 0.964                  | 1.014                  | 5.370                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Simultaneous | 191 | 6905        | 12.31               | 12.50               | 1.045                  | 100.0        | 1.0                       | 0.01             | 0.745                  | 0.779                  | 3.890                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 191 | 6905        | 13.83               | 14.00               | 1.04                   | 100.0        | 1.0                       | 0.02             | 0.841                  | 0.875                  | 5.450                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 31  | 6105        | 12.98               | 13.00               | 1.005                  | 100.0        | 1.0                       | 0.04             | 0.745                  | 0.749                  | 4.130                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 63  | 6265        | 12.28               | 12.50               | 1.052                  | 100.0        | 1.0                       | -0.04            | 0.803                  | 0.845                  | 4.780                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 95  | 6425        | 13.37               | 13.50               | 1.03                   | 100.0        | 1.0                       | 0.02             | 0.811                  | 0.835                  | 5.130                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 127 | 6585        | 13.34               | 13.50               | 1.038                  | 100.0        | 1.0                       | 0.08             | 0.823                  | 0.854                  | 5.340                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Standalone   | 159 | 6745        | 13.28               | 13.50               | 1.052                  | 100.0        | 1.0                       | 0.04             | 0.805                  | 0.847                  | 4.890                            |
|         | WLAN6GHz             | 802.11be-EHT320 MCS0 | Edge1         | 0mm      | Ant 7   | Simultaneous | 191 | 6905        | 12.31               | 12.50               | 1.045                  | 100.0        | 1.0                       | 0.02             | 0.567                  | 0.593                  | 3.940                            |
|         | WLAN6GHz             | 802.11a 6Mbps        | Edge4         | 0mm      | Ant 7   | Full Power   | 57  | 6235        | 19.53               | 20.00               | 1.114                  | 99.32        | 1.007                     | 0.02             | 0.703                  | 0.789                  | 4.100                            |
|         | WLAN6GHz             | 802.11a 6Mbps        | Bottom face   | 20mm     | Ant 7   | Full Power   | 57  | 6235        | 19.53               | 20.00               | 1.114                  | 99.32        | 1.007                     | 0.07             | 0.405                  | 0.454                  | 2.340                            |
|         | WLAN6GHz             | 802.11a 6Mbps        | Edge1         | 24mm     | Ant 7   | Full Power   | 57  | 6235        | 19.53               | 20.00               | 1.114                  | 99.32        | 1.007                     | -0.01            | 0.512                  | 0.574                  | 2.780                            |
|         | WLAN6GHz<br>Sample 2 | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 191 | 6905        | 13.83               | 14                  | 1.04                   | 100          | 1.0                       | 0.06             | 1.07                   | 1.113                  | 5.480                            |
|         | WLAN6GHz VLP         | 802.11be-EHT320 MCS0 | Bottom face   | 0mm      | Ant 7   | Standalone   | 191 | 6905        | 11.37               | 11.5                | 1.03                   | 100          | 1.0                       | 0.01             | 0.533                  | 0.549                  | 2.930                            |

## 【Bluetooth SAR】

| Plot No | Band                  | Mode       | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-Up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) |
|---------|-----------------------|------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|
|         | Bluetooth             | LE 125kbps | Bottom face   | 0mm      | Ant 6   | Standalone  | 19  | 2440        | 7.10                | 7.50                | 1.096                  | 82.62        | 1.008                     | 0.01             | 0.087                  | 0.096                  |
|         | Bluetooth             | LE 125kbps | Edge4         | 0mm      | Ant 6   | Standalone  | 19  | 2440        | 7.10                | 7.50                | 1.096                  | 82.62        | 1.008                     | -0.05            | 0.001                  | 0.001                  |
|         | Bluetooth<br>Sample 2 | LE 125kbps | Bottom face   | 0mm      | Ant 6   | Standalone  | 19  | 2440        | 7.1                 | 7.5                 | 1.096                  | 82.62        | 1.008                     | -0.09            | 0.067                  | 0.074                  |
| 07      | Bluetooth             | LE 125kbps | Bottom face   | 0mm      | Ant 7   | Standalone  | 19  | 2440        | 6.55                | 7.00                | 1.109                  | 82.59        | 1.009                     | -0.08            | 0.111                  | 0.124                  |
|         | Bluetooth             | LE 125kbps | Edge1         | 0mm      | Ant 7   | Standalone  | 19  | 2440        | 6.55                | 7.00                | 1.109                  | 82.59        | 1.009                     | -0.01            | 0.001                  | 0.001                  |
|         | Bluetooth<br>Sample 2 | LE 125kbps | Bottom face   | 0mm      | Ant 7   | Standalone  | 19  | 2440        | 6.55                | 7                   | 1.109                  | 82.59        | 1.009                     | 0.04             | 0.098                  | 0.11                   |

## 15.2 6GHz PD Test Result

### <WLAN PD>

| Band     | Mode                 | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Average Power (dBm) | Grid Step (A) | iPDn | iPD ratio (± -1) | Normal psPD (W/m <sup>2</sup> ) | Total psPD (W/m <sup>2</sup> ) |
|----------|----------------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------|------|------------------|---------------------------------|--------------------------------|
| WLAN6GHz | 802.11be-EHT320 MCS0 | Bottom face   | 2mm      | Ant 6   | Standalone  | 31  | 6105        | 13.38               | 0.0625        | 3.2  | -0.7             | 3.44                            | 4.37                           |
| WLAN6GHz | 802.11be-EHT320 MCS0 | Bottom face   | 10mm     | Ant 6   | Standalone  | 31  | 6105        | 13.38               | 0.25          | 3.75 |                  | 1.83                            | 1.87                           |
| WLAN6GHz | 802.11be-EHT320 MCS0 | Bottom face   | 2mm      | Ant 6   | Standalone  | 191 | 6905        | 12.04               | 0.0625        | 3.41 | -0.3             | 2.78                            | 4.05                           |
| WLAN6GHz | 802.11be-EHT320 MCS0 | Bottom face   | 8.59mm   | Ant 6   | Standalone  | 191 | 6905        | 12.04               | 0.25          | 3.66 |                  | 1.83                            | 2.03                           |

| Plot No. | Band              | Mode                 | Test Position     | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Grid Step (A) | Scaling Factor for Measurement Uncertainty | Power Drift (dB) | Normal psPD (W/m <sup>2</sup> ) | Scaled Normal psPD (W/m <sup>2</sup> ) | Total psPD (W/m <sup>2</sup> ) | Scaled Total psPD (W/m <sup>2</sup> ) |
|----------|-------------------|----------------------|-------------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|---------------|--------------------------------------------|------------------|---------------------------------|----------------------------------------|--------------------------------|---------------------------------------|
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 31  | 6105        | 13.38               | 13.50               | 1.028                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.02            | 3.44                            | 5.49                                   | 4.37                           | 6.98                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 63  | 6265        | 12.80               | 13.00               | 1.047                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.02             | 2.84                            | 4.62                                   | 4.17                           | 6.78                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 95  | 6425        | 11.55               | 12.00               | 1.109                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.06             | 2.46                            | 4.24                                   | 2.93                           | 5.05                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 127 | 6585        | 11.59               | 12.00               | 1.099                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.04            | 2.8                             | 4.78                                   | 4.15                           | 7.09                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 159 | 6745        | 11.46               | 11.50               | 1.009                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.04             | 2.87                            | 4.50                                   | 4.13                           | 6.48                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 191 | 6905        | 12.04               | 12.50               | 1.112                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.03             | 2.78                            | 4.80                                   | 4.05                           | 6.99                                  |
|          | WLAN6GHz          | 802.11ax-HE20 MCS0   | Bottom face       | 28mm     | Ant 6   | Full Power  | 173 | 6815        | 19.62               | 20.00               | 1.091                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.06             | 2.03                            | 3.44                                   | 2.06                           | 3.49                                  |
|          | WLAN6GHz Sample 2 | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 6   | Standalone  | 127 | 6585        | 11.59               | 12.00               | 1.099                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.03             | 2.68                            | 4.58                                   | 3.97                           | 6.78                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 31  | 6105        | 12.98               | 13.00               | 1.005                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.06             | 2.5                             | 3.90                                   | 4.35                           | 6.79                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 63  | 6265        | 12.28               | 12.50               | 1.052                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.12            | 3.44                            | 5.62                                   | 4.11                           | 6.72                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 95  | 6425        | 13.37               | 13.50               | 1.030                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.01            | 3.12                            | 4.99                                   | 4.07                           | 6.51                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 127 | 6585        | 13.34               | 13.50               | 1.038                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.03            | 3.01                            | 4.85                                   | 4.03                           | 6.50                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 159 | 6745        | 13.28               | 13.50               | 1.052                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.03             | 3.02                            | 4.94                                   | 3.94                           | 6.44                                  |
| 01       | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.040                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.08             | 4.13                            | 6.67                                   | 4.56                           | 7.37                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face-Top   | 2mm      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.040                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.05             | 3.02                            | 4.88                                   | 3.44                           | 5.56                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face-Left  | 2mm      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.040                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.09             | 0.888                           | 1.43                                   | 1.22                           | 1.97                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face-Right | 2mm      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.040                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.01             | 0.425                           | 0.69                                   | 0.453                          | 0.73                                  |
|          | WLAN6GHz          | 802.11be-EHT320 MCS0 | Bottom face       | 20mm     | Ant 7   | Full Power  | 149 | 6695        | 19.66               | 20.00               | 1.082                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | 0.08             | 2.59                            | 4.35                                   | 2.76                           | 4.64                                  |
|          | WLAN6GHz Sample 2 | 802.11be-EHT320 MCS0 | Bottom face       | 2mm      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.040                  | 100          | 1.000                     | 0.0625        | 1.5535                                     | -0.17            | 2.08                            | 3.36                                   | 2.38                           | 3.84                                  |



### 15.3 Repeated SAR Measurement

【Repeat SAR 1g - FCC】

| No. | Band       | Mode                 | Test Position | Gap (mm) | Antenna | Power State | Ch. | Freq. (MHz) | Average Power (dBm) | Tune-Up Limit (dBm) | Tune-Up Scaling Factor | Duty Cycle % | Duty Cycle Scaling Factor | Power Drift (dB) | Measured 1g SAR (W/kg) | Reported 1g SAR (W/kg) | Ratio |
|-----|------------|----------------------|---------------|----------|---------|-------------|-----|-------------|---------------------|---------------------|------------------------|--------------|---------------------------|------------------|------------------------|------------------------|-------|
| 1st | WLAN2.4GHz | 802.11b 1Mbps        | Edge1         | 0.0      | Ant 7   | Standalone  | 6   | 2437        | 17.89               | 18.00               | 1.026                  | 97.03        | 1.031                     | -0.03            | 0.986                  | 1.043                  | -     |
| 2nd | WLAN2.4GHz | 802.11b 1Mbps        | Edge1         | 0.0      | Ant 7   | Standalone  | 6   | 2437        | 17.89               | 18.00               | 1.026                  | 97.03        | 1.031                     | 0.01             | 0.956                  | 1.011                  | 1.03  |
| 1st | WLAN5GHz   | 802.11ac-VHT80 MCS0  | Bottom face   | 0.0      | Ant 7   | Standalone  | 58  | 5290        | 7.62                | 8.00                | 1.091                  | 100.0        | 1.0                       | -0.04            | 0.979                  | 1.068                  | -     |
| 2nd | WLAN5GHz   | 802.11ac-VHT80 MCS0  | Bottom face   | 0.0      | Ant 7   | Standalone  | 58  | 5290        | 7.62                | 8.00                | 1.091                  | 100.0        | 1.0                       | -0.02            | 0.945                  | 1.031                  | 1.04  |
| 1st | WLAN5GHz   | 802.11ac-VHT160 MCS0 | Edge1         | 0.0      | Ant 7   | Standalone  | 114 | 5570        | 9.09                | 9.50                | 1.099                  | 100.0        | 1.0                       | -0.02            | 0.936                  | 1.029                  | -     |
| 2nd | WLAN5GHz   | 802.11ac-VHT160 MCS0 | Edge1         | 0.0      | Ant 7   | Standalone  | 114 | 5570        | 9.09                | 9.50                | 1.099                  | 100.0        | 1.0                       | 0.01             | 0.911                  | 1.001                  | 1.03  |
| 1st | WLAN5GHz   | 802.11ac-VHT80 MCS0  | Bottom face   | 0.0      | Ant 6   | Standalone  | 155 | 5775        | 8.57                | 9.00                | 1.104                  | 100.0        | 1.0                       | -0.09            | 0.985                  | 1.087                  | -     |
| 2nd | WLAN5GHz   | 802.11ac-VHT80 MCS0  | Bottom face   | 0.0      | Ant 6   | Standalone  | 155 | 5775        | 8.57                | 9.00                | 1.104                  | 100.0        | 1.0                       | -0.06            | 0.962                  | 1.062                  | 1.02  |
| 1st | WLAN6GHz   | 802.11be-EHT320 MCS0 | Bottom face   | 0.0      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.04                   | 100.0        | 1.0                       | 0.03             | 1.130                  | 1.175                  | -     |
| 2nd | WLAN6GHz   | 802.11be-EHT320 MCS0 | Bottom face   | 0.0      | Ant 7   | Standalone  | 191 | 6905        | 13.83               | 14.00               | 1.04                   | 100.0        | 1.0                       | 0.04             | 1.060                  | 1.102                  | 1.05  |

**General Note:**

1. Per KDB 865664 D01v01r04, for each frequency band, repeated SAR measurement is required only when the measured SAR is  $\geq 0.8\text{W/kg}$ .
2. Per KDB 865664 D01v01r04, if the ratio among the repeated measurement is  $\leq 1.2$  and the measured SAR  $< 1.45\text{W/kg}$ , only one repeated measurement is required.
3. The ratio is the difference in percentage between original and repeated *measured SAR*.
4. All measurement SAR result is scaled-up to account for tune-up tolerance and is compliant.

## 16. Simultaneous Transmission Analysis

| No. | Simultaneous Transmission Configurations                | Touch Computer |
|-----|---------------------------------------------------------|----------------|
|     |                                                         | Body           |
| 1.  | WLAN2.4GHz + Bluetooth                                  | Yes            |
| 2.  | WLAN5GHz + Bluetooth                                    | Yes            |
| 3.  | WLAN6GHz + Bluetooth                                    | Yes            |
| 4.  | WLAN5.2GHz/5.3GHz + WLAN6GHz                            | Yes            |
| 5.  | WLAN2.4GHz + WLAN5GHz                                   | Yes            |
| 6.  | WLAN2.4GHz + WLAN6GHz                                   | Yes            |
| 7.  | WLAN5.2GHz/5.3GHz + WLAN5.5GHz/5.8GHz                   | Yes            |
| 8.  | WLAN2.4GHz + WLAN5GHz + Bluetooth                       | Yes            |
| 9.  | WLAN2.4GHz + WLAN6GHz + Bluetooth                       | Yes            |
| 10. | WLAN5.2GHz/5.3GHz + WLAN6GHz + Bluetooth                | Yes            |
| 11. | WLAN5.2GHz/5.3GHz + WLAN5.5GHz/5.8GHz + Bluetooth       | Yes            |
| 12. | WLAN2.4GHz + Bluetooth + NFC                            | Yes            |
| 13. | WLAN5GHz + Bluetooth+ NFC                               | Yes            |
| 14. | WLAN6GHz + Bluetooth+ NFC                               | Yes            |
| 15. | WLAN5GHz + WLAN6GHz+ NFC                                | Yes            |
| 16. | WLAN2.4GHz + WLAN5GHz+ NFC                              | Yes            |
| 17. | WLAN2.4GHz + WLAN6GHz+ NFC                              | Yes            |
| 18. | WLAN2.4GHz + WLAN5GHz + Bluetooth+ NFC                  | Yes            |
| 19. | WLAN2.4GHz + WLAN6GHz + Bluetooth+ NFC                  | Yes            |
| 20. | WLAN5.2GHz/5.3GHz + WLAN6GHz + Bluetooth+ NFC           | Yes            |
| 21. | WLAN5.2GHz/5.3GHz + WLAN5.5GHz/5.8GHz + Bluetooth + NFC | Yes            |

### General Note:

- According to the EUT characteristic, when WLAN 2.4GHz and Bluetooth share the same antenna path and cannot transmit simultaneously; when WLAN2.4GHz Ant 7 and Bluetooth Ant 6 are located on different antennas, they can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz and WLAN 6GHz can transmit simultaneously.
- The Bluetooth can transmit in SISO mode only and they have no MIMO mode.
- According to the EUT characteristic, WLAN 5GHz/WLAN 6GHz and Bluetooth can transmit simultaneously.
- According to the EUT characteristic, WLAN 5GHz/WLAN 6GHz and WLAN 2.4GHz can transmit simultaneously.
- NFC can transmit simultaneously with other Radios in body exposure condition.
- All licensed modes share the same antenna part and cannot transmit simultaneously.
- The reported SAR summation is calculated based on the same configuration and test position.
- When the NFC standalone SAR is much less than 0.001, it is not necessary to do the co-located SAR summation.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
  - 1g Scalar SAR summation < 1.6W/kg and 10g Scalar SAR summation < 4.0W/kg.
  - $SPLSR = (SAR1 + SAR2)^{1.5} / (\text{min. separation distance, mm})$ , and the peak separation distance is determined from the square root of  $[(x1-x2)^2 + (y1-y2)^2 + (z1-z2)^2]$ , where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
  - If  $SPLSR \leq 0.04$  for 1g SAR and  $SPLSR \leq 0.10$  for 10g SAR, simultaneously transmission SAR measurement is not necessary.
  - Simultaneously transmission SAR measurement, and the reported multi-band 1g SAR < 1.6W/kg and 10g SAR < 4.0W/kg.
  - The SPLSR calculated results please refer to section 16.2.

## 16.1 Body Exposure Conditions

| Exposure Position   | 1<br>2.4GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 2<br>2.4GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 3<br>5GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 4<br>5GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 5<br>6GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 6<br>6GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 7<br>Bluetooth<br>Ant 6<br>1g SAR<br>(W/kg) | 8<br>Bluetooth<br>Ant 7<br>1g SAR<br>(W/kg) | 2+7<br>Summed<br>1g SAR<br>(W/kg) | 3+4+7<br>Summed<br>1g SAR<br>(W/kg) | 3+4+8<br>Summed<br>1g SAR<br>(W/kg) | 5+6+7<br>Summed<br>1g SAR<br>(W/kg) | 5+6+8<br>Summed<br>1g SAR<br>(W/kg) | No           |
|---------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|--------------|
| Edge2 at 0mm        |                                                  | 0.749                                            |                                                |                                                |                                                |                                                |                                             |                                             | 0.75                              | 0.00                                | 0.00                                | 0.00                                | 0.00                                |              |
| Bottom face at 28mm | 0.074                                            |                                                  | 0.387                                          |                                                | 0.111                                          |                                                |                                             |                                             | 0.00                              | 0.39                                | 0.39                                | 0.11                                | 0.11                                |              |
| Bottom face at 0mm  | 1.016                                            | 0.452                                            | 1.087                                          | 1.068                                          | 1.110                                          | 1.175                                          | 0.096                                       | 0.124                                       | 0.55                              | 2.25                                | 2.28                                | 2.38                                | 2.41                                | Case 1&2&3&4 |
| Bottom face at 20mm |                                                  | 0.181                                            |                                                | 0.501                                          |                                                | 0.454                                          |                                             |                                             | 0.18                              | 0.50                                | 0.50                                | 0.45                                | 0.45                                |              |
| Edge1 at 24mm       |                                                  | 0.201                                            |                                                | 0.377                                          |                                                | 0.574                                          |                                             |                                             | 0.20                              | 0.38                                | 0.38                                | 0.57                                | 0.57                                |              |
| Edge1 at 0mm        |                                                  | 1.043                                            |                                                | 1.029                                          |                                                | 0.875                                          |                                             | 0.001                                       | 1.04                              | 1.03                                | 1.03                                | 0.88                                | 0.88                                |              |
| Edge4 at 30mm       | 0.117                                            |                                                  | 0.592                                          |                                                | 0.254                                          |                                                |                                             |                                             | 0.00                              | 0.59                                | 0.59                                | 0.25                                | 0.25                                |              |
| Edge4 at 0mm        | 0.249                                            | 0.732                                            | 1.042                                          | 0.356                                          | 0.755                                          | 0.766                                          | 0.001                                       |                                             | 0.73                              | 1.40                                | 1.40                                | 1.52                                | 1.52                                |              |

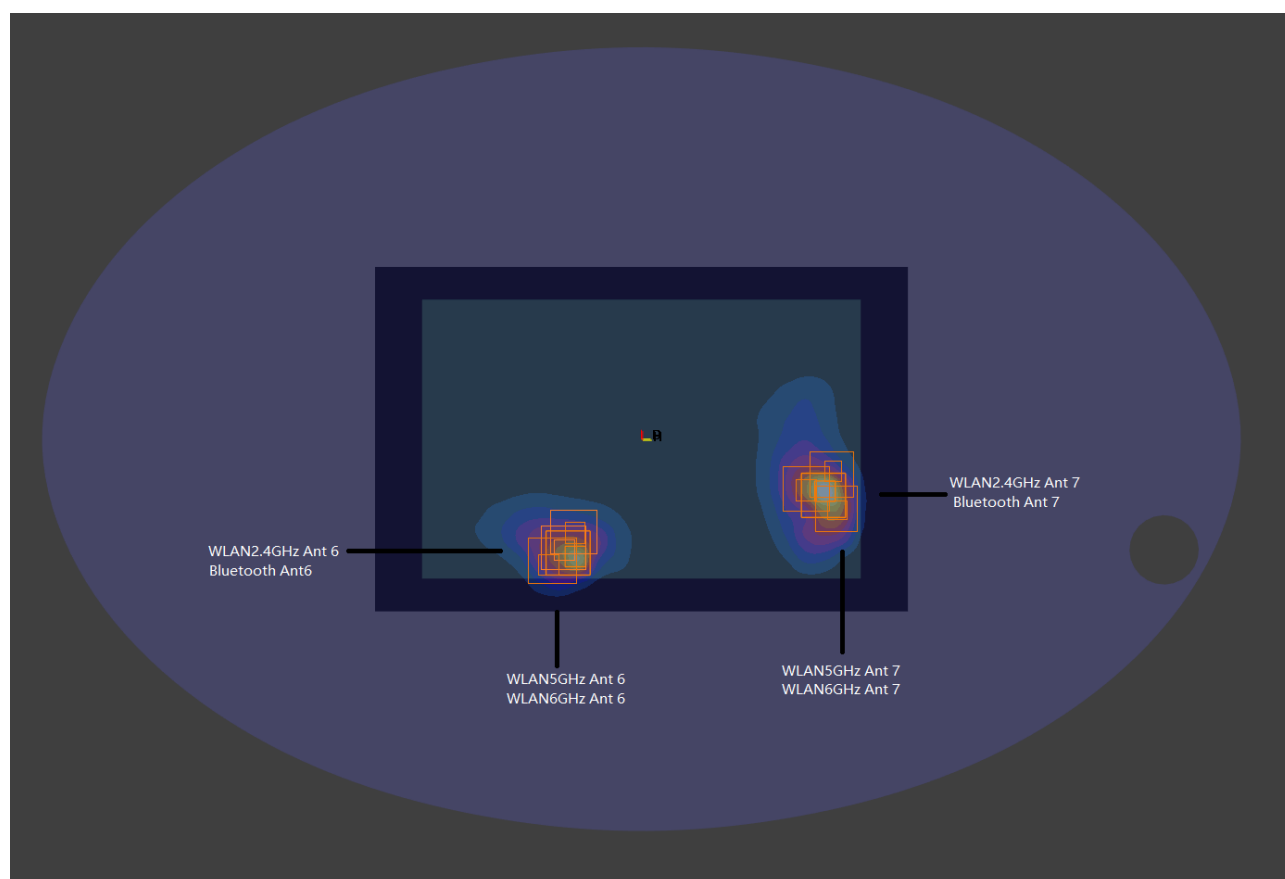
| Exposure Position   | 1<br>2.4GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 2<br>2.4GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 3<br>5GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 4<br>5GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 5<br>6GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 6<br>6GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 7<br>Bluetooth<br>Ant 6<br>1g SAR<br>(W/kg) | 8<br>Bluetooth<br>Ant 7<br>1g SAR<br>(W/kg) | 2+3+4+7<br>Summed<br>1g SAR<br>(W/kg) | 1+2+3+4<br>Summed<br>1g SAR<br>(W/kg) | 2+5+6+7<br>Summed<br>1g SAR<br>(W/kg) | 1+2+5+6<br>Summed<br>1g SAR<br>(W/kg) | No              |
|---------------------|--------------------------------------------------|--------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|---------------------------------------|-----------------|
| Edge2 at 0mm        |                                                  | 0.749                                            |                                                |                                                |                                                |                                                |                                             |                                             | 0.75                                  | 0.75                                  | 0.75                                  | 0.75                                  |                 |
| Bottom face at 28mm | 0.074                                            |                                                  | 0.387                                          |                                                | 0.111                                          |                                                |                                             |                                             | 0.39                                  | 0.46                                  | 0.11                                  | 0.19                                  |                 |
| Bottom face at 0mm  | 0.681                                            | 0.276                                            | 0.770                                          | 0.678                                          | 0.775                                          | 0.779                                          | 0.096                                       | 0.124                                       | 1.82                                  | 2.41                                  | 1.93                                  | 2.51                                  | Case 5&6&7&8    |
| Bottom face at 20mm |                                                  | 0.181                                            |                                                | 0.501                                          |                                                | 0.454                                          |                                             |                                             | 0.68                                  | 0.68                                  | 0.64                                  | 0.64                                  |                 |
| Edge1 at 24mm       |                                                  | 0.201                                            |                                                | 0.377                                          |                                                | 0.574                                          |                                             |                                             | 0.58                                  | 0.58                                  | 0.78                                  | 0.78                                  |                 |
| Edge1 at 0mm        |                                                  | 0.662                                            |                                                | 0.763                                          |                                                | 0.593                                          |                                             | 0.001                                       | 1.43                                  | 1.43                                  | 1.26                                  | 1.26                                  |                 |
| Edge4 at 30mm       | 0.117                                            |                                                  | 0.592                                          |                                                | 0.254                                          |                                                |                                             |                                             | 0.59                                  | 0.71                                  | 0.25                                  | 0.37                                  |                 |
| Edge4 at 0mm        | 0.182                                            | 0.732                                            | 0.763                                          | 0.356                                          | 0.524                                          | 0.766                                          | 0.001                                       |                                             | 1.85                                  | 2.03                                  | 2.02                                  | 2.20                                  | Case 9&10&11&12 |

| Exposure Position   | 1<br>5.2&5.3GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 2<br>5.2&5.3GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 3<br>5.5&5.8GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 4<br>5.5&5.8GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 5<br>6GHz<br>WLAN<br>Ant 6<br>1g SAR<br>(W/kg) | 6<br>6GHz<br>WLAN<br>Ant 7<br>1g SAR<br>(W/kg) | 7<br>Bluetooth<br>Ant 6<br>1g SAR<br>(W/kg) | 8<br>Bluetooth<br>Ant 7<br>1g SAR<br>(W/kg) | 1+2+3+4+7<br>Summed<br>1g SAR<br>(W/kg) | 1+2+3+4+8<br>Summed<br>1g SAR<br>(W/kg) | 1+2+5+6+7<br>Summed<br>1g SAR<br>(W/kg) | 1+2+5+6+8<br>Summed<br>1g SAR<br>(W/kg) | No               |
|---------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------|------------------------------------------------|---------------------------------------------|---------------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|-----------------------------------------|------------------|
| Edge2 at 0mm        |                                                      |                                                      |                                                      |                                                      |                                                |                                                |                                             |                                             | 0.00                                    | 0.00                                    | 0.00                                    | 0.00                                    |                  |
| Bottom face at 28mm | 0.387                                                |                                                      | 0.334                                                |                                                      | 0.111                                          |                                                |                                             |                                             | 0.72                                    | 0.72                                    | 0.50                                    | 0.50                                    |                  |
| Bottom face at 0mm  | 0.667                                                | 0.619                                                | 0.770                                                | 0.678                                                | 0.755                                          | 0.779                                          | 0.096                                       | 0.124                                       | 2.83                                    | 2.86                                    | 2.92                                    | 2.94                                    | Case 13&14&15&16 |
| Bottom face at 20mm |                                                      | 0.501                                                |                                                      | 0.488                                                |                                                | 0.454                                          |                                             |                                             | 0.99                                    | 0.99                                    | 0.96                                    | 0.96                                    |                  |
| Edge1 at 24mm       |                                                      | 0.377                                                |                                                      | 0.300                                                |                                                | 0.574                                          |                                             |                                             | 0.68                                    | 0.68                                    | 0.95                                    | 0.95                                    |                  |
| Edge1 at 0mm        |                                                      | 0.577                                                |                                                      | 0.700                                                |                                                | 0.593                                          |                                             | 0.001                                       | 1.28                                    | 1.28                                    | 1.17                                    | 1.17                                    |                  |
| Edge4 at 30mm       | 0.549                                                |                                                      | 0.592                                                |                                                      | 0.254                                          |                                                |                                             |                                             | 1.14                                    | 1.14                                    | 0.80                                    | 0.80                                    |                  |
| Edge4 at 0mm        | 0.736                                                | 0.302                                                | 0.763                                                | 0.356                                                | 0.524                                          | 0.766                                          | 0.001                                       |                                             | 2.16                                    | 2.16                                    | 2.33                                    | 2.33                                    | Case 17&18&19&20 |

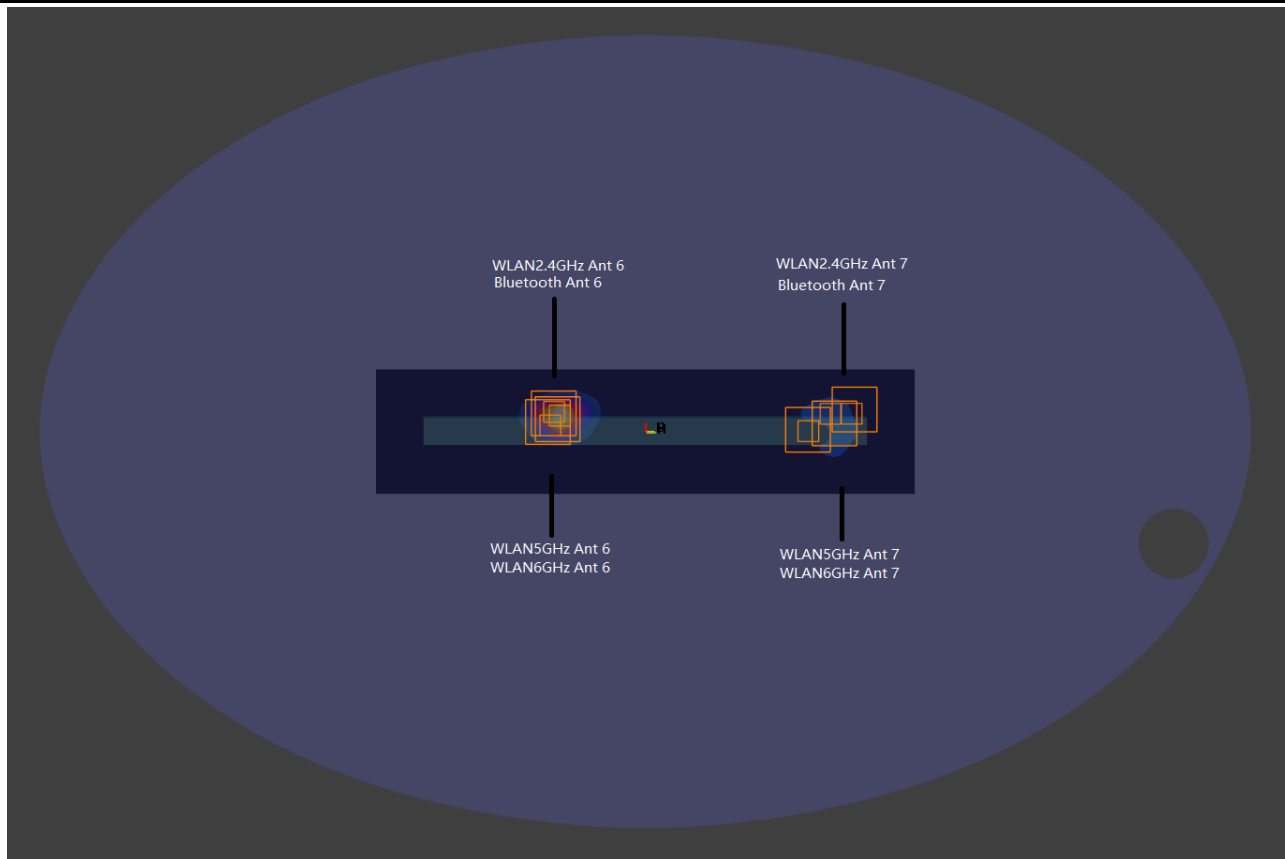
## 16.2 SPLSR Evaluation and Analysis

### General Note:

1. When standalone SAR is measured for both antennas in the pair, the peak location separation distance is computed by the square root of  $[(x_1 - x_2)^2 + (y_1 - y_2)^2 + (z_1 - z_2)^2]$ , where  $(x_1, y_1, z_1)$  and  $(x_2, y_2, z_2)$  are the coordinates in the area scans or extrapolated peak SAR locations in the zoom scans, as appropriate.
2.  $SPLSR = (SAR_1 + SAR_2) \cdot 1.5 / (\text{min. separation distance, mm})$ . If  $SPLSR \leq 0.04$  for 1g SAR, simultaneously transmission SAR measurement is not necessary.
3. Per April 2022 TCB Workshop Notes, WIFI 5GHz/6GHz was summed algebraically with the BT for the purposes of hybrid SPLSR combination and they are share the same antenna.
4. Per April 2022 TCB Workshop, instead of doing a small volume scan over a co-located antenna pair, used summing the SAR values of the co-located pair and using that value in SPLSR calculation. In the calculation used the minimum distance between the spatially separated antenna and the closest antenna of the co-located antenna pair to be conservative.



Bottom face WLAN 0mm



Edge 4 WLAN 0mm

|        | Band            | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|--------|-----------------|-------------|------------|--------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|
|        |                 |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
| Case 1 | 5GHz WLAN Ant 6 | Bottom face | 1.087      | 1.183  | 0mm      | 61                     | -41   | -174 | 215.7            | 2.25              | 0.02          | Not required     |
|        | Bluetooth Ant 6 | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 5GHz WLAN Ant 7 | Bottom face | 1.068      | 1.068  | 0mm      | 34                     | 173   | -174 | 208.6            | 2.25              | 0.02          | Not required     |
|        | 5GHz WLAN Ant 6 | Bottom face | 1.087      | 1.183  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | Bluetooth Ant 6 | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
|        | 5GHz WLAN Ant 7 | Bottom face | 1.068      | 1.068  | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
| Case 2 | Band            | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|        |                 |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|        | 5GHz WLAN Ant 6 | Bottom face | 1.087      | 1.087  | 0mm      | 61                     | -41   | -174 | 215.7            | 2.28              | 0.02          | Not required     |
|        | 5GHz WLAN Ant 7 | Bottom face | 1.068      | 1.192  | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|        | Bluetooth Ant 7 | Bottom face | 0.124      |        | 0mm      |                        |       |      | 135.7            | 2.28              | 0.03          | Not required     |
|        | 5GHz WLAN Ant 6 | Bottom face | 1.087      | 1.087  | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |
|        | 5GHz WLAN Ant 7 | Bottom face | 1.068      | 1.192  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | Bluetooth Ant 7 | Bottom face | 0.124      |        | 0mm      | 22                     | 89    | -174 |                  |                   |               |                  |
| Case 3 | Band            | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|        |                 |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|        | 6GHz WLAN Ant 6 | Bottom face | 1.110      | 1.206  | 0mm      | 59                     | -41.7 | -174 | 147.4            | 2.38              | 0.02          | Not required     |
|        | Bluetooth Ant 6 | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 6GHz WLAN Ant 7 | Bottom face | 1.175      | 1.175  | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |



# FCC SAR Test Report

Report No. : FA551202

|        |                   |             |            |        |          |                        |       |      |                  |                   |               |                  |
|--------|-------------------|-------------|------------|--------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|
|        | 6GHz WLAN Ant 6   | Bottom face | 1.110      | 1.206  | 0mm      |                        |       |      | 140.2            | 2.38              | 0.03          | Not required     |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
|        | 6GHz WLAN Ant 7   | Bottom face | 1.175      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |
| Case 4 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|        |                   |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|        | 6GHz WLAN Ant 6   | Bottom face | 1.110      | 1.110  | 0mm      | 59                     | -41.7 | -174 | 147.4            | 2.41              | 0.03          | Not required     |
|        | 6GHz WLAN Ant 7   | Bottom face | 1.175      | 1.299  | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |
|        | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 6GHz WLAN Ant 6   | Bottom face | 1.110      | 1.110  | 0mm      | 59                     | -41.7 | -174 | 135.8            | 2.41              | 0.03          | Not required     |
|        | 6GHz WLAN Ant 7   | Bottom face | 1.175      | 1.299  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      | 22                     | 89    | -174 |                  |                   |               |                  |
| Case 5 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|        |                   |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      | 25                     | 89    | -174 | 134.9            | 1.82              | 0.02          | Not required     |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      | 0.866  | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      | 25                     | 89    | -174 | 127.9            | 1.82              | 0.02          | Not required     |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      | 0.866  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      |                        |       |      | 215.7            | 1.82              | 0.01          | Not required     |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      | 0.866  | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      |                        |       |      | 208.6            | 1.82              | 0.01          | Not required     |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      | 0.866  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
| Case 6 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|        |                   |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.451  | 0mm      | 57                     | -32   | -174 | 125.2            | 2.41              | 0.03          | Not required     |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.451  | 0mm      | 57                     | -32   | -174 | 206.3            | 2.41              | 0.02          | Not required     |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      |                        |       |      |                  |                   |               |                  |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.451  | 0mm      |                        |       |      | 134.9            | 2.41              | 0.03          | Not required     |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      |        | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |
|        | 2.4GHz WLAN Ant 7 | Bottom      | 0.276      | 0.954  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |



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|        |                   |             |            |        |          |                        |       |      |                  |                   |               |                  |  |
|--------|-------------------|-------------|------------|--------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|--|
|        |                   | face        |            |        |          |                        |       |      |                  |                   |               |                  |  |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.451  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 5GHz WLAN Ant 6   | Bottom face | 0.770      |        | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 0.954  | 0mm      |                        |       |      | 215.7            | 2.41              | 0.02          | Not required     |  |
|        | 5GHz WLAN Ant 7   | Bottom face | 0.678      |        | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |  |
| Case 7 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      | 0.871  | 0mm      | 59                     | -41.7 | -174 | 135.0            | 1.93              | 0.02          | Not required     |  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      | 0.871  | 0mm      | 59                     | -41.7 | -174 | 147.4            | 1.93              | 0.02          | Not required     |  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      | 0.871  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 | 127.9            | 1.93              | 0.02          | Not required     |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      | 0.871  | 0mm      |                        |       |      | 140.2            | 1.93              | 0.02          | Not required     |  |
|        | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |  |
| Case 8 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.456  | 0mm      | 57                     | -32   | -174 | 125.2            | 2.51              | 0.03          | Not required     |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.456  | 0mm      | 57                     | -32   | -174 | 137.5            | 2.51              | 0.03          | Not required     |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.456  | 0mm      |                        |       |      | 135.0            | 2.51              | 0.03          | Not required     |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      |        | 0mm      | 59                     | -41.7 | -174 |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      | 25                     | 89    | -174 |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 6 | Bottom face | 0.681      | 1.456  | 0mm      |                        |       |      | 147.4            | 2.51              | 0.03          | Not required     |  |
|        | 6GHz WLAN Ant 6   | Bottom face | 0.775      |        | 0mm      | 59                     | -41.7 | -174 |                  |                   |               |                  |  |
|        | 2.4GHz WLAN Ant 7 | Bottom face | 0.276      | 1.055  | 0mm      |                        |       |      |                  |                   |               |                  |  |
|        | 6GHz WLAN Ant 7   | Bottom      | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |  |



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|                 |                   | face     |            |        |          |                        |      |      |                  |                   |               |                  |
|-----------------|-------------------|----------|------------|--------|----------|------------------------|------|------|------------------|-------------------|---------------|------------------|
| Case 9          | Band              | Position | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      | 0                      | 79   | -174 | 120.3            | 1.85              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      | 0.764  | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      | 0                      | 79   | -174 | 128.1            | 1.85              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      | 0.764  | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      | -4                     | -49  | -174 |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      |                        |      |      | 142.0            | 1.85              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      | 0.764  | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      |                        |      |      | 150.2            | 1.85              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      | 0.764  | 0mm      |                        |      |      |                  |                   |               |                  |
| Bluetooth Ant 6 | Edge4             | 0.001    | 0mm        |        | -4       | -49                    | -174 |      |                  |                   |               |                  |
| Case 10         | Band              | Position | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                 | 2.4GHz WLAN Ant 6 | Edge4    | 0.182      | 0.945  | 0mm      | -3.3                   | -46  | -174 | 125.0            | 2.03              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      | 0                      | 79   | -174 |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 6 | Edge4    | 0.182      | 0.945  | 0mm      | -3.3                   | -46  | -174 | 147.2            | 2.03              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 6 | Edge4    | 0.182      | 0.945  | 0mm      |                        |      |      | 120.3            | 2.03              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      |        | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      | 0                      | 79   | -174 |                  |                   |               |                  |
|                 | 5GHz WLAN Ant 7   | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 6 | Edge4    | 0.182      | 0.945  | 0mm      |                        |      |      | 142.0            | 2.03              | 0.02          | Not required     |
|                 | 5GHz WLAN Ant 6   | Edge4    | 0.763      |        | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.731      | 1.087  | 0mm      |                        |      |      |                  |                   |               |                  |
| 5GHz WLAN Ant 7 | Edge4             | 0.356    | 0mm        |        | -11      | 101                    | -174 |      |                  |                   |               |                  |
| Case 11         | Band              | Position | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.732      | 1.498  | 0mm      | 0                      | 79   | -174 | 191.1            | 2.02              | 0.02          | Not required     |
|                 | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 6GHz WLAN Ant 6   | Edge4    | 0.524      | 0.525  | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.732      | 1.498  | 0mm      | 0                      | 79   | -174 | 128.1            | 2.02              | 0.02          | Not required     |
|                 | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 6GHz WLAN Ant 6   | Edge4    | 0.524      | 0.525  | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      | -4                     | -49  | -174 |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.732      | 1.498  | 0mm      |                        |      |      | 126.9            | 2.02              | 0.02          | Not required     |
|                 | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |
|                 | 6GHz WLAN Ant 6   | Edge4    | 0.524      | 0.525  | 0mm      | -10                    | -41  | -174 |                  |                   |               |                  |
|                 | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|                 | 2.4GHz WLAN Ant 7 | Edge4    | 0.732      | 1.498  | 0mm      |                        |      |      | 135.0            | 2.02              | 0.02          | Not required     |
|                 | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |
|                 | 6GHz WLAN Ant 6   | Edge4    | 0.524      | 0.525  | 0mm      |                        |      |      |                  |                   |               |                  |
| Bluetooth Ant 6 | Edge4             | 0.001    | 0mm        |        | -4       | -49                    | -174 |      |                  |                   |               |                  |
| Case 12         | Band              | Position | SAR        | Summed | Gap      | SAR peak location (mm) |      |      | 3D distance (mm) | Summed            | SPLSR         | Simultaneous     |



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|         |                   |             | (W/kg)     |        | (mm)     | X                      | Y    | Z    |                  | SAR (W/kg)        |               | SAR              |
|---------|-------------------|-------------|------------|--------|----------|------------------------|------|------|------------------|-------------------|---------------|------------------|
|         |                   |             |            |        |          |                        |      |      |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 6 | Edge4       | 0.182      | 0.706  | 0mm      | -3.3                   | -46  | -174 | 125.0            | 2.20              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4       | 0.524      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 7 | Edge4       | 0.732      | 1.498  | 0mm      | 0                      | 79   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4       | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 6 | Edge4       | 0.182      | 0.706  | 0mm      | -3.3                   | -46  | -174 | 132.0            | 2.20              | 0.02          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4       | 0.524      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 7 | Edge4       | 0.732      | 1.498  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4       | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 6 | Edge4       | 0.182      | 0.706  | 0mm      |                        |      |      | 120.4            | 2.20              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4       | 0.524      |        | 0mm      | -10                    | -41  | -174 |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 7 | Edge4       | 0.732      | 1.498  | 0mm      | 0                      | 79   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4       | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
| Case 13 | 2.4GHz WLAN Ant 6 | Edge4       | 0.182      | 0.706  | 0mm      |                        |      |      | 126.9            | 2.20              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4       | 0.524      |        | 0mm      | -10                    | -41  | -174 |                  |                   |               |                  |
|         | 2.4GHz WLAN Ant 7 | Edge4       | 0.732      | 1.498  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4       | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |
|         | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      | 61                     | -41  | -174 | 215.7            | 2.83              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.297  | 0mm      | 34                     | 173  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      | 61                     | -41  | -174 | 215.7            | 2.83              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.297  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      |                        |      |      | 215.7            | 2.83              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.297  | 0mm      | 34                     | 173  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      |                        |      |      | 215.7            | 2.83              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.297  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      |                        |      |      | 208.6            | 2.83              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.297  | 0mm      | 34                     | 173  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.533  | 0mm      |                        |      |      | 208.6            | 2.83              | 0.02          | Not required     |



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|         |                   |             |            |        |          |                        |     |      |                  |                   |               |                  |
|---------|-------------------|-------------|------------|--------|----------|------------------------|-----|------|------------------|-------------------|---------------|------------------|
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      | 1.297  | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34 | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173 | -174 |                  |                   |               |                  |
| Case 14 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |     |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      | 34                     | 173 | -174 | 215.7            | 2.86              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      | 34                     | 173 | -174 | 215.7            | 2.86              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      |                        |     |      | 215.7            | 2.86              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173 | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      |                        |     |      | 215.7            | 2.86              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173 | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      |                        |     |      | 215.7            | 2.86              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      | 34                     | 173 | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      |                        |     |      | 135.7            | 2.86              | 0.04          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      | 22                     | 89  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.421  | 0mm      |                        |     |      | 135.7            | 2.86              | 0.04          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Bottom face | 0.678      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      | 22                     | 89  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.437  | 0mm      |                        |     |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Bottom face | 0.770      |        | 0mm      | 61                     | -41 | -174 |                  |                   |               |                  |
| Case 15 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |     |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.518  | 0mm      | 61                     | -41 | -174 | 215.7            | 2.92              | 0.02          | Not required     |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      |        | 0mm      |                        |     |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |     |      |                  |                   |               |                  |



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|         |                   |             |            |        |          |                        |       |      |                  |                   |               |                  |
|---------|-------------------|-------------|------------|--------|----------|------------------------|-------|------|------------------|-------------------|---------------|------------------|
| Case 16 | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.398  | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.518  | 0mm      | 61                     | -41   | -174 | 147.2            | 2.92              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      | 1.398  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      | 1.518  | 0mm      | 26                     | 102   | -174 | 216.2            | 2.92              | 0.02          | Not required     |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      | 1.398  | 0mm      | 59                     | -41.7 | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.518  | 0mm      | 34                     | 173   | -174 | 147.4            | 2.92              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.398  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      |        | 0mm      | 59                     | -41.7 | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Bottom face | 0.096      | 1.518  | 0mm      |                        |       |      | 208.6            | 2.92              | 0.02          | Not required     |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      | 1.398  | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      | 1.518  | 0mm      |                        |       |      | 140.2            | 2.92              | 0.04          | Not required     |
|         | Bluetooth Ant 6   | Bottom face | 0.096      |        | 0mm      | 60                     | -34   | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.398  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |
| Case 16 | Band              | Position    | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |       |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         |                   |             |            |        |          | X                      | Y     | Z    |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.522  | 0mm      | 34                     | 173   | -174 | 215.7            | 2.94              | 0.02          | Not required     |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      | 1.422  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      |        | 0mm      | 61                     | -41   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      | 1.522  | 0mm      |                        |       |      | 216.2            | 2.94              | 0.02          | Not required     |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      |        | 0mm      | 34                     | 173   | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom face | 0.779      | 1.422  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Bottom face | 0.124      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Bottom face | 0.667      | 1.522  | 0mm      | 59                     | -41.7 | -174 | 147.2            | 2.94              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Bottom face | 0.755      |        | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Bottom face | 0.619      | 1.522  | 0mm      |                        |       |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Bottom      | 0.779      |        | 0mm      | 26                     | 102   | -174 |                  |                   |               |                  |



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|         |                   |                 |                   |               |                 |                               |       |      |                         |                          |                      |                         |  |
|---------|-------------------|-----------------|-------------------|---------------|-----------------|-------------------------------|-------|------|-------------------------|--------------------------|----------------------|-------------------------|--|
|         |                   | face            |                   |               |                 |                               |       |      |                         |                          |                      |                         |  |
|         | Bluetooth Ant 7   | Bottom face     | 0.124             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 6 | Bottom face     | 0.667             | 1.422         | 0mm             | 61                            | -41   | -174 |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 6   | Bottom face     | 0.755             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 7 | Bottom face     | 0.619             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 7   | Bottom face     | 0.779             | 1.522         | 0mm             | 26                            | 102   | -174 |                         |                          |                      |                         |  |
|         | Bluetooth Ant 7   | Bottom face     | 0.124             |               | 0mm             |                               |       |      | 147.4                   | 2.94                     | 0.03                 | Not required            |  |
|         | 5.3GHz WLAN Ant 6 | Bottom face     | 0.667             | 1.422         | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 6   | Bottom face     | 0.755             |               | 0mm             | 59                            | -41.7 | -174 |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 7 | Bottom face     | 0.619             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 7   | Bottom face     | 0.779             | 1.522         | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | Bluetooth Ant 7   | Bottom face     | 0.124             |               | 0mm             | 22                            | 89    | -174 | 135.7                   | 2.94                     | 0.04                 | Not required            |  |
|         | 5.3GHz WLAN Ant 6 | Bottom face     | 0.667             | 1.422         | 0mm             | 61                            | -41   | -174 |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 6   | Bottom face     | 0.755             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 7 | Bottom face     | 0.619             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 7   | Bottom face     | 0.779             | 1.522         | 0mm             |                               |       |      |                         |                          |                      |                         |  |
| Case 17 | Bluetooth Ant 7   | Bottom face     | 0.124             |               | 0mm             | 22                            | 89    | -174 | 135.8                   | 2.94                     | 0.04                 | Not required            |  |
|         | 5.3GHz WLAN Ant 6 | Bottom face     | 0.667             | 1.422         | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 6GHz WLAN Ant 6   | Bottom face     | 0.755             |               | 0mm             | 59                            | -41.7 | -174 |                         |                          |                      |                         |  |
|         |                   |                 |                   |               |                 |                               |       |      |                         |                          |                      |                         |  |
|         | <b>Band</b>       | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Summed</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |       |      | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |  |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             |               | 0mm             | -9                            | -41   | -174 |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 6 | Edge4           | 0.763             | 1.5           | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             |                               |       |      | 142.0                   | 2.16                     | 0.02                 | Not required            |  |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 0.658         | 0mm             | -11                           | 101   | -174 |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 7 | Edge4           | 0.356             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             |               | 0mm             | -9                            | -41   | -174 |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 6 | Edge4           | 0.763             | 1.5           | 0mm             |                               |       |      | 142.0                   | 2.16                     | 0.02                 | Not required            |  |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 0.658         | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 7 | Edge4           | 0.356             |               | 0mm             | -11                           | 101   | -174 |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 6 | Edge4           | 0.763             | 1.5           | 0mm             | -9                            | -41   | -174 |                         |                          |                      |                         |  |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             |                               |       |      | 142.0                   | 2.16                     | 0.02                 | Not required            |  |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 0.658         | 0mm             | -11                           | 101   | -174 |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 7 | Edge4           | 0.356             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 6 | Edge4           | 0.763             | 1.5           | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             | -4                            | -49   | -174 | 150.2                   | 2.16                     | 0.02                 | Not required            |  |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 0.658         | 0mm             | -11                           | 101   | -174 |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 7 | Edge4           | 0.356             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             |               | 0mm             |                               |       |      |                         |                          |                      |                         |  |
|         | 5.5GHz WLAN Ant 6 | Edge4           | 0.763             | 1.5           | 0mm             |                               |       |      | 150.2                   | 2.16                     | 0.02                 | Not required            |  |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             | -4                            | -49   | -174 |                         |                          |                      |                         |  |



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|         |                   |          |            |        |          |                        |      |      |                  |                   |               |                  |
|---------|-------------------|----------|------------|--------|----------|------------------------|------|------|------------------|-------------------|---------------|------------------|
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.658  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
| Case 18 | Band              | Position | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      | -11                    | 101  | -174 | 142.0            | 2.16              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      | -11                    | 101  | -174 | 142.0            | 2.16              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      |                        |      |      | 142.0            | 2.16              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      |                        |      |      | 142.0            | 2.16              | 0.02          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      |                        |      |      | 122.5            | 2.16              | 0.03          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      | 2                      | 81   | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 0.659  | 0mm      |                        |      |      | 122.5            | 2.16              | 0.03          | Not required     |
|         | 5.5GHz WLAN Ant 7 | Edge4    | 0.356      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 7   | Edge4    | 0.001      |        | 0mm      | 2                      | 81   | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.499  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.5GHz WLAN Ant 6 | Edge4    | 0.763      |        | 0mm      | -9                     | -41  | -174 |                  |                   |               |                  |
| Case 19 | Band              | Position | SAR (W/kg) | Summed | Gap (mm) | SAR peak location (mm) |      |      | 3D distance (mm) | Summed SAR (W/kg) | SPLSR Results | Simultaneous SAR |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.261  | 0mm      | -9                     | -41  | -174 | 142.0            | 2.33              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4    | 0.524      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 1.068  | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.261  | 0mm      | -9                     | -41  | -174 | 126.9            | 2.33              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4    | 0.524      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 1.068  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.261  | 0mm      |                        |      |      | 142.0            | 2.33              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4    | 0.524      |        | 0mm      | -10                    | -41  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 1.068  | 0mm      | -11                    | 101  | -174 |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 6 | Edge4    | 0.736      | 1.261  | 0mm      |                        |      |      | 126.9            | 2.33              | 0.03          | Not required     |
|         | 6GHz WLAN Ant 6   | Edge4    | 0.524      |        | 0mm      | -10                    | -41  | -174 |                  |                   |               |                  |
|         | Bluetooth Ant 6   | Edge4    | 0.001      |        | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 5.3GHz WLAN Ant 7 | Edge4    | 0.302      | 1.068  | 0mm      |                        |      |      |                  |                   |               |                  |
|         | 6GHz WLAN Ant 7   | Edge4    | 0.766      |        | 0mm      | -8                     | 85.9 | -174 |                  |                   |               |                  |



# FCC SAR Test Report

Report No. : FA551202

|         |                   |                 |                   |               |                 |                               |      |      |                         |                          |                      |                         |
|---------|-------------------|-----------------|-------------------|---------------|-----------------|-------------------------------|------|------|-------------------------|--------------------------|----------------------|-------------------------|
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.261         | 0mm             |                               |      |      | 150.2                   | 2.33                     | 0.02                 | Not required            |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             | -4                            | -49  | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.068         | 0mm             | -11                           | 101  | -174 | 135.0                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.261         | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 6   | Edge4           | 0.001             |               | 0mm             | -4                            | -49  | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.068         | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             | -8                            | 85.9 | -174 |                         |                          |                      |                         |
|         |                   |                 |                   |               |                 |                               |      |      |                         |                          |                      |                         |
|         |                   |                 |                   |               |                 |                               |      |      |                         |                          |                      |                         |
|         |                   |                 |                   |               |                 |                               |      |      |                         |                          |                      |                         |
| Case 20 | <b>Band</b>       | <b>Position</b> | <b>SAR (W/kg)</b> | <b>Summed</b> | <b>Gap (mm)</b> | <b>SAR peak location (mm)</b> |      |      | <b>3D distance (mm)</b> | <b>Summed SAR (W/kg)</b> | <b>SPLSR Results</b> | <b>Simultaneous SAR</b> |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             | -11                           | 101  | -174 | 142.0                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             | -9                            | -41  | -174 | 142.0                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             | -11                           | 101  | -174 |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             | -10                           | -41  | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             |                               |      |      | 126.9                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             | -8                            | 85.9 | -174 |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             | -9                            | -41  | -174 |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             | -8                            | 85.9 | -174 |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             |                               |      |      | 126.9                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             | -10                           | -41  | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             | -8                            | 85.9 | -174 |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             | -10                           | -41  | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             |                               |      |      | 122.5                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             | 2                             | 81   | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             | -9                            | -41  | -174 |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 7 | Edge4           | 0.302             | 1.069         | 0mm             |                               |      |      | 122.6                   | 2.33                     | 0.03                 | Not required            |
|         | 6GHz WLAN Ant 7   | Edge4           | 0.766             |               | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | Bluetooth Ant 7   | Edge4           | 0.001             |               | 0mm             | 2                             | 81   | -174 |                         |                          |                      |                         |
|         | 5.3GHz WLAN Ant 6 | Edge4           | 0.736             | 1.26          | 0mm             |                               |      |      |                         |                          |                      |                         |
|         | 6GHz WLAN Ant 6   | Edge4           | 0.524             |               | 0mm             | -10                           | -41  | -174 |                         |                          |                      |                         |

Test Engineer : Martin Li, Varus Wang, Light Wang, Ricky Gu

## **17. Uncertainty Assessment**

Per KDB 865664 D01 SAR measurement 100MHz to 6GHz, when the highest measured 1-g SAR within a frequency band is < 1.5 W/kg and the measured 10-g SAR within a frequency band is < 3.75 W/kg. The expanded SAR measurement uncertainty must be  $\leq 30\%$ , for a confidence interval of  $k = 2$ . If these conditions are met, extensive SAR measurement uncertainty analysis described in IEEE Std 1528-2013 is not required in SAR reports submitted for equipment approval. For this device, the highest measured 1-g SAR is less 1.5W/kg and highest measured 10-g SAR is less 3.75W/kg. Therefore, the measurement uncertainty table is not required in this report.

### **Declaration of Conformity:**

The test results with all measurement uncertainty excluded is presented in accordance with the regulation limits or requirements declared by manufacturers.

### **Comments and Explanations:**

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

The component of uncertainty may generally be categorized according to the methods used to evaluate them. The evaluation of uncertainty by the statistical analysis of a series of observations is termed a Type A evaluation of uncertainty. The evaluation of uncertainty by means other than the statistical analysis of a series of observation is termed a Type B evaluation of uncertainty. Each component of uncertainty, however evaluated, is represented by an estimated standard deviation, termed standard uncertainty, which is determined by the positive square root of the estimated variance.

A Type A evaluation of standard uncertainty may be based on any valid statistical method for treating data. This includes calculating the standard deviation of the mean of a series of independent observations; using the method of least squares to fit a curve to the data in order to estimate the parameter of the curve and their standard deviations; or carrying out an analysis of variance in order to identify and quantify random effects in certain kinds of measurement.

A type B evaluation of standard uncertainty is typically based on scientific judgment using all of the relevant information available. These may include previous measurement data, experience, and knowledge of the behavior and properties of relevant materials and instruments, manufacture's specification, data provided in calibration reports and uncertainties assigned to reference data taken from handbooks. Broadly speaking, the uncertainty is either obtained from an outdoor source or obtained from an assumed distribution, such as the normal distribution, rectangular or triangular distributions indicated in table below.

| <b>Uncertainty Distributions</b>   | <b>Normal</b> | <b>Rectangular</b> | <b>Triangular</b> | <b>U-Shape</b> |
|------------------------------------|---------------|--------------------|-------------------|----------------|
| Multi-plying Factor <sup>(a)</sup> | $1/k^{(b)}$   | $1/\sqrt{3}$       | $1/\sqrt{6}$      | $1/\sqrt{2}$   |

(a) standard uncertainty is determined as the product of the multiplying factor and the estimated range of variations in the measured quantity

(b)  $k$  is the coverage factor

### **Standard Uncertainty for Assumed Distribution**

The combined standard uncertainty of the measurement result represents the estimated standard deviation of the result. It is obtained by combining the individual standard uncertainties of both Type A and Type B evaluation using the usual "root-sum-squares" (RSS) methods of combining standard deviations by taking the positive square root of the estimated variances.

Expanded uncertainty is a measure of uncertainty that defines an interval about the measurement result within which the measured value is confidently believed to lie. It is obtained by multiplying the combined standard uncertainty by a coverage factor. Typically, the coverage factor ranges from 2 to 3. Using a coverage factor allows the true value of a measured quantity to be specified with a defined probability within the specified uncertainty range. For purpose of this document, a coverage factor two is used, which corresponds to confidence interval of about 95 %. The DASY uncertainty Budget is shown in the following tables.

The judgment of conformity in the report is based on the measurement results excluding the measurement uncertainty.

| Uncertainty Budget<br>According to IEC/IEEE 62209-1528<br>(Frequency band: 4 MHz - 10 GHz range) |                    |             |       |         |          |                                |                                 |
|--------------------------------------------------------------------------------------------------|--------------------|-------------|-------|---------|----------|--------------------------------|---------------------------------|
| Error Description                                                                                | Uncert. Value (±%) | Prob. Dist. | Div.  | (Ci) 1g | (Ci) 10g | Standard Uncertainty (1g) (±%) | Standard Uncertainty (10g) (±%) |
| <b>Measurement System errors</b>                                                                 |                    |             |       |         |          |                                |                                 |
| Probe calibration                                                                                | 18.6               | N           | 2     | 1       | 1        | 9.3                            | 9.3                             |
| Probe calibration drift                                                                          | 1.7                | R           | 1.732 | 1       | 1        | 1.0                            | 1.0                             |
| Probe linearity and detection Limit                                                              | 4.7                | R           | 1.732 | 1       | 1        | 2.7                            | 2.7                             |
| Broadband signal                                                                                 | 2.8                | R           | 1.732 | 1       | 1        | 1.6                            | 1.6                             |
| Probe isotropy                                                                                   | 7.6                | R           | 1.732 | 1       | 1        | 4.4                            | 4.4                             |
| Other probe and data acquisition errors                                                          | 2.4                | N           | 1     | 1       | 1        | 2.4                            | 2.4                             |
| RF ambient and noise                                                                             | 1.8                | N           | 1     | 1       | 1        | 1.8                            | 1.8                             |
| Probe positioning errors                                                                         | 0.006              | N           | 1     | 0.5     | 0.5      | 0.0                            | 0.0                             |
| Data processing errors                                                                           | 4.0                | N           | 1     | 1       | 1        | 4.0                            | 4.0                             |
| <b>Phantom and Device Errors</b>                                                                 |                    |             |       |         |          |                                |                                 |
| Measurement of phantom conductivity ( $\sigma$ )                                                 | 2.5                | N           | 1     | 0.78    | 0.71     | 2.0                            | 1.8                             |
| Temperature effects (medium)                                                                     | 5.4                | R           | 1.732 | 0.78    | 0.71     | 2.4                            | 2.2                             |
| Shell permittivity                                                                               | 14.0               | R           | 1.732 | 0.5     | 0.5      | 4.0                            | 4.0                             |
| Distance between the radiating element of the DUT and the phantom medium                         | 2.0                | N           | 1     | 2       | 2        | 4.0                            | 4.0                             |
| Repeatability of positioning the DUT or source against the phantom                               | 1.0                | N           | 1     | 1       | 1        | 1.0                            | 1.0                             |
| Device holder effects                                                                            | 3.6                | N           | 1     | 1       | 1        | 3.6                            | 3.6                             |
| Effect of operating mode on probe sensitivity                                                    | 2.4                | R           | 1.732 | 1       | 1        | 1.4                            | 1.4                             |
| Time-average SAR                                                                                 | 1.7                | R           | 1.732 | 1       | 1        | 1.0                            | 1.0                             |
| Variation in SAR due to drift in output of DUT                                                   | 2.5                | N           | 1     | 1       | 1        | 2.5                            | 2.5                             |
| Validation antenna uncertainty (validation measurement only)                                     | 0.0                | N           | 1     | 1       | 1        | 0.0                            | 0.0                             |
| Uncertainty in accepted power (validation measurement only)                                      | 0.0                | N           | 1     | 1       | 1        | 0.0                            | 0.0                             |
| <b>Correction to the SAR results</b>                                                             |                    |             |       |         |          |                                |                                 |
| Phantom deviation from target ( $\epsilon', \sigma$ )                                            | 1.9                | N           | 1     | 1       | 0.84     | 1.9                            | 1.6                             |
| SAR scaling                                                                                      | 0.0                | R           | 1.732 | 1       | 1        | 0.0                            | 0.0                             |
| <b>Combined Std. Uncertainty</b>                                                                 |                    |             |       |         |          | <b>14.5%</b>                   | <b>14.4%</b>                    |
| <b>Coverage Factor for 95 %</b>                                                                  |                    |             |       |         |          | <b>K=2</b>                     | <b>K=2</b>                      |
| <b>Expanded STD Uncertainty</b>                                                                  |                    |             |       |         |          | <b>29.0%</b>                   | <b>28.8%</b>                    |

**SAR Uncertainty Budget for frequency range 4MHz to 10GHz**

| cDASY6 Module mmWave Uncertainty Budget<br>Evaluation Distances to the Antennas > $\lambda/2\pi$<br>In Compliance with IEC TR 63170 |                         |             |         |      |                            |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------|---------|------|----------------------------|
| Error Description                                                                                                                   | Uncertainty Value (±dB) | Probability | Divisor | (Ci) | Standard Uncertainty (±dB) |
| <b>Uncertainty terms dependent on the measurement system</b>                                                                        |                         |             |         |      |                            |
| Probe Calibration                                                                                                                   | 0.49                    | N           | 1       | 1    | 0.49                       |
| Probe correction                                                                                                                    | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Frequency response                                                                                                                  | 0.20                    | R           | 1.732   | 1    | 0.12                       |
| Sensor cross coupling                                                                                                               | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Isotropy                                                                                                                            | 0.50                    | R           | 1.732   | 1    | 0.29                       |
| Linearity                                                                                                                           | 0.20                    | R           | 1.732   | 1    | 0.12                       |
| Probe scattering                                                                                                                    | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Probe positioning offset                                                                                                            | 0.30                    | R           | 1.732   | 1    | 0.17                       |
| Probe positioning repeatability                                                                                                     | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| Sensor mechanical offset                                                                                                            | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Probe spatial resolution                                                                                                            | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Field impedance dependence                                                                                                          | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Amplitude and phase drift                                                                                                           | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Amplitude and phase noise                                                                                                           | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| Measurement area truncation                                                                                                         | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Data acquisition                                                                                                                    | 0.03                    | N           | 1       | 1    | 0.03                       |
| Sampling                                                                                                                            | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Field reconstruction                                                                                                                | 2.00                    | R           | 1.732   | 1    | 1.15                       |
| Forward transformation                                                                                                              | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Power density scaling                                                                                                               | 0.00                    | R           | 1.732   | 1    | 0.00                       |
| Spatial averaging                                                                                                                   | 0.10                    | R           | 1.732   | 1    | 0.06                       |
| System detection limit                                                                                                              | 0.04                    | R           | 1.732   | 1    | 0.02                       |
| <b>Uncertainty terms dependent on the DUT and environmental factors</b>                                                             |                         |             |         |      |                            |
| Probe coupling with DUT                                                                                                             | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Modulation response                                                                                                                 | 0.40                    | R           | 1.732   | 1    | 0.2                        |
| Integration time                                                                                                                    | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Response time                                                                                                                       | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Device holder influence                                                                                                             | 0.10                    | R           | 1.732   | 1    | 0.1                        |
| DUT alignment                                                                                                                       | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| RF ambient conditions                                                                                                               | 0.04                    | R           | 1.732   | 1    | 0.0                        |
| Ambient reflections                                                                                                                 | 0.04                    | R           | 1.732   | 1    | 0.0                        |
| Immunity / secondary reception                                                                                                      | 0.00                    | R           | 1.732   | 1    | 0.0                        |
| Drift of the DUT                                                                                                                    |                         | R           | 1.732   | 1    |                            |
| <b>Combined Std. Uncertainty</b>                                                                                                    |                         |             |         |      | <b>1.34</b>                |
| <b>Expanded STD Uncertainty (95%)</b>                                                                                               |                         |             |         |      | <b>2.68</b>                |

**PD Uncertainty Budget**

## **18. References**

- [1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"
- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
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- [5] FCC KDB 248227 D01 v02r02, "SAR Guidance for IEEE 802.11 (WiFi) Transmitters", Oct 2015.
- [6] FCC KDB 447498 D01 v06, "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies", Oct 2015
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- [10] IEC/IEEE 62209-1528:2020, "Measurement procedure for the assessment of specific absorption rate of human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Part 1528: Human models, instrumentation, and procedures (Frequency range of 4 MHz to 10 GHz)", Oct. 2020
- [11] IEC 62479:2010 Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)
- [12] IEC TR 63170: 2018 Measurement procedure for the evaluation of power density related to human exposure to radio frequency fields from wireless communication devices operating between 6 GHz and 100 GHz
- [13] SPEAG DASY6 System Handbook
- [14] SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz)

## **Appendixes**

Please refer to separated files for the following appendixes

**Appendix A. Plots of System Performance Check**

**Appendix B. Plots of High SAR Measurement**

**Appendix C. DASY Calibration Certificate**

**Appendix D. Test Setup Photos**

**Appendix E. Power reduction mechanism verification**

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