

## FCC Test Report

**Report No.:** RFBARR-WTW-P21030485L-6

**FCC ID:** RAS-MT7922A22M

**Test Model:** MT7922A22M

**Received Date:** 2022/2/5

**Test Date:** 2022/3/15 ~ 2022/5/4

**Issued Date:** 2022/5/4

**Applicant:** MediaTek Inc.

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**Issued By:** Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch  
Hsin Chu Laboratory

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Taiwan

**Test Location:** E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,  
Taiwan

**FCC Registration /  
Designation Number:** 723255 / TW2022



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## Table of Contents

|                                                                  |           |
|------------------------------------------------------------------|-----------|
| <b>Release Control Record .....</b>                              | <b>4</b>  |
| <b>1 Certificate of Conformity .....</b>                         | <b>5</b>  |
| <b>2 Summary of Test Results .....</b>                           | <b>6</b>  |
| 2.1 Measurement Uncertainty .....                                | 6         |
| 2.2 Modification Record .....                                    | 7         |
| <b>3 General Information .....</b>                               | <b>8</b>  |
| 3.1 General Description of EUT .....                             | 8         |
| 3.2 Description of Test Modes .....                              | 11        |
| 3.2.1 Test Mode Applicability and Tested Channel Detail .....    | 14        |
| 3.3 Duty Cycle of Test Signal .....                              | 18        |
| 3.4 Description of Support Units .....                           | 19        |
| 3.4.1 Configuration of System under Test .....                   | 20        |
| 3.5 General Description of Applied Standard .....                | 21        |
| <b>4 Test Types and Results .....</b>                            | <b>22</b> |
| 4.1 Radiated Emission and Bandedge Measurement .....             | 22        |
| 4.1.1 Limits of Radiated Emission and Bandedge Measurement ..... | 22        |
| 4.1.2 Test Instruments .....                                     | 23        |
| 4.1.3 Test Procedure .....                                       | 25        |
| 4.1.4 Test Setup .....                                           | 26        |
| 4.1.5 EUT Operating Condition .....                              | 27        |
| 4.1.6 Test Results (Mode 1) .....                                | 28        |
| 4.1.7 Test Results (Mode 2) .....                                | 42        |
| 4.1.8 Test Results (Mode 3) .....                                | 56        |
| 4.1.9 Test Results (Mode 4) .....                                | 60        |
| 4.2 In-Band Emission (Mask) Measurement .....                    | 64        |
| 4.2.1 Limits of In-Band Emission (Mask) Measurement .....        | 64        |
| 4.2.2 Test Setup .....                                           | 64        |
| 4.2.3 Test Instruments .....                                     | 64        |
| 4.2.4 Test Procedure .....                                       | 65        |
| 4.2.5 EUT Operating Condition .....                              | 65        |
| 4.2.6 Test Results (Mode 1) .....                                | 66        |
| 4.3 Conducted Emission Measurement .....                         | 68        |
| 4.3.1 Limits of Conducted Emission Measurement .....             | 68        |
| 4.3.2 Test Instruments .....                                     | 68        |
| 4.3.3 Test Procedure .....                                       | 69        |
| 4.3.4 Test Setup .....                                           | 69        |
| 4.3.5 EUT Operating Condition .....                              | 69        |
| 4.3.6 Test Results (Mode 1) .....                                | 70        |
| 4.4 Transmit Power Measurement .....                             | 72        |
| 4.4.1 Limits of Transmit Power Measurement .....                 | 72        |
| 4.4.2 Test Setup .....                                           | 73        |
| 4.4.3 Test Instruments .....                                     | 73        |
| 4.4.4 Test Procedure .....                                       | 73        |
| 4.4.5 EUT Operating Condition .....                              | 73        |
| 4.4.6 Test Result (Mode 1) .....                                 | 74        |
| 4.4.7 Test Result (Mode 3) .....                                 | 75        |
| 4.5 Emission Bandwidth Measurement .....                         | 76        |
| 4.5.1 Test Setup .....                                           | 76        |
| 4.5.2 Test Instruments .....                                     | 76        |
| 4.5.3 Test Procedure .....                                       | 76        |
| 4.5.4 Test Results (Mode 1) .....                                | 77        |
| 4.6 Peak Power Spectral Density Measurement .....                | 79        |

|          |                                                                 |           |
|----------|-----------------------------------------------------------------|-----------|
| 4.6.1    | Limits of Peak Power Spectral Density Measurement .....         | 79        |
| 4.6.2    | Test Setup.....                                                 | 79        |
| 4.6.3    | Test Instruments .....                                          | 79        |
| 4.6.4    | Test Procedure .....                                            | 79        |
| 4.6.5    | EUT Operating Condition .....                                   | 79        |
| 4.6.6    | Test Results (Mode 1).....                                      | 80        |
| 4.7      | Contention Based Protocol Measurement .....                     | 81        |
| 4.7.1    | Limits of Contention Based Protocol Measurement .....           | 81        |
| 4.7.2    | Test Setup.....                                                 | 81        |
| 4.7.3    | Test Instruments .....                                          | 81        |
| 4.7.4    | Test Procedure .....                                            | 82        |
| 4.7.5    | EUT Operating Condition .....                                   | 82        |
| 4.7.6    | Test Results .....                                              | 83        |
| 4.8      | Frequency Stability Measurement.....                            | 91        |
| 4.8.1    | Limits of Frequency Stability Measurement.....                  | 91        |
| 4.8.2    | Test Setup.....                                                 | 91        |
| 4.8.3    | Test Instruments .....                                          | 91        |
| 4.8.4    | Test Procedure .....                                            | 91        |
| 4.8.5    | EUT Operating Condition .....                                   | 91        |
| 4.8.6    | Test Results (Mode 1).....                                      | 92        |
| 4.9      | Operational Restrictions for 6 GHz U-NII Devices .....          | 93        |
| 4.9.1    | Limits of Operational Restrictions for 6 GHz U-NII Devices..... | 93        |
| 4.9.2    | Test Setup.....                                                 | 93        |
| 4.9.3    | Test Instruments .....                                          | 93        |
| 4.9.4    | Test Procedure .....                                            | 93        |
| 4.9.5    | Test Results .....                                              | 93        |
| <b>5</b> | <b>Pictures of Test Arrangements.....</b>                       | <b>94</b> |
|          | <b>Annex A - Band-Edge Measurement (Mode 1).....</b>            | <b>95</b> |
|          | <b>Annex A - Band-Edge Measurement (Mode 2).....</b>            | <b>96</b> |
|          | <b>Appendix A– Information of the Testing Laboratories.....</b> | <b>97</b> |

### Release Control Record

| Issue No.               | Description       | Date Issued |
|-------------------------|-------------------|-------------|
| RFBARR-WTW-P21030485L-6 | Original release. | 2022/5/4    |

## 1 Certificate of Conformity

**Product:** 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card

**Brand:** MediaTek

**Test Model:** MT7922A22M

**Sample Status:** Engineering sample

**Applicant:** MediaTek Inc.

**Test Date:** 2022/3/15 ~ 2022/5/4

**Standard:** 47 CFR FCC Part 15, Subpart E (Section 15.407)  
ANSI C63.10: 2013

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**Prepared by :**  , **Date:** 2022/5/4  
Claire Kuan / Specialist

**Approved by :**  , **Date:** 2022/5/4  
May Chen / Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) |                                                  |        |                                                                                  |
|------------------------------------------------|--------------------------------------------------|--------|----------------------------------------------------------------------------------|
| FCC Clause                                     | Test Item                                        | Result | Remarks                                                                          |
| 15.407(b)(8)                                   | AC Power Conducted Emissions                     | PASS   | Meet the requirement of limit. Minimum passing margin is -15.82dB at 0.45801MHz. |
| 15.407(b)(5)(8)                                | Radiated Emissions                               | PASS   | Meet the requirement of limit. Minimum passing margin is -0.4dB at 7125.00MHz.   |
| 15.407(b)(6)                                   | In-Band Emission (Mask)                          | PASS   | Meet the requirement of limit.                                                   |
| 15.407(a)(4/5/6/7/8)                           | Max Average Transmit Power                       | PASS   | Meet the requirement of limit.                                                   |
| 15.407(a)(10)                                  | Emission Bandwidth Measurement                   | PASS   | Meet the requirement of limit.                                                   |
| 15.407(a)(4/5/6/7/8)                           | Peak Power Spectral Density                      | PASS   | Meet the requirement of limit.                                                   |
| 15.407 (d)(6)                                  | Contention-based Protocol                        | PASS   | Meet the requirement of limit.                                                   |
| 15.407(g)                                      | Frequency Stability                              | PASS   | Meet the requirement of limit.                                                   |
| 15.407(a)(7)(8)                                | Dual Client- Proper Power Adjustment             | N/A    | Device associates with low power indoor AP only.                                 |
| 15.407(d)(5)                                   | Operational restrictions for 6 GHz U-NII devices | PASS   | Declaration by applicant                                                         |
| 15.203                                         | Antenna Requirement                              | PASS   | Antenna connector is i-pex(MHF) not a standard connector.                        |

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

### 2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement                        | Frequency      | Expanded Uncertainty (k=2) (±) |
|------------------------------------|----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.9 dB                         |
| Radiated Emissions up to 1 GHz     | 30MHz ~ 1GHz   | 3.1 dB                         |
| Radiated Emissions above 1 GHz     | 1GHz ~ 6GHz    | 5.5 dB                         |
|                                    | 6GHz ~ 18GHz   | 5.1 dB                         |
|                                    | 18GHz ~ 40GHz  | 5.3 dB                         |

## 2.2 Modification Record

There were no modifications required for compliance.

### 3 General Information

#### 3.1 General Description of EUT

|                       |                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product               | 2TX 11ax (WiFi6E) BW160 + BT/BLE Combo Card                                                                                                                                                                                                                             |
| Brand                 | MediaTek                                                                                                                                                                                                                                                                |
| Test Model            | MT7922A22M                                                                                                                                                                                                                                                              |
| Status of EUT         | Engineering sample                                                                                                                                                                                                                                                      |
| Power Supply Rating   | 3.3 Vdc from host equipment                                                                                                                                                                                                                                             |
| Modulation Type       | 64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode only<br>1024QAM for OFDMA in 11ax mode only                                                                                                                                                           |
| Modulation Technology | OFDM, OFDMA                                                                                                                                                                                                                                                             |
| Transfer Rate         | 802.11a: up to 54 Mbps<br>802.11ax: up to 2401.9 Mbps                                                                                                                                                                                                                   |
| Operating Frequency   | 5.955 ~ 6.415GHz, 6.435 ~ 6.525GHz, 6.525 ~ 6.875GHz, 6.875 ~ 7.115GHz                                                                                                                                                                                                  |
| Number of Channel     | 802.11a/ax (HE20): 59<br>802.11ax (HE40): 29<br>802.11ax (HE80): 14<br>802.11ax (HE160): 7                                                                                                                                                                              |
| Output Power          | <b>5.955 ~ 6.415GHz:</b> 4.989 mW (EIRP: 11.74 dBm / 14.928 mW)<br><b>6.435 ~ 6.525GHz:</b> 5.383 mW (EIRP: 11.6 dBm / 14.454 mW)<br><b>6.525 ~ 6.855GHz:</b> 5.848 mW (EIRP: 12.28 dBm / 16.904 mW)<br><b>6.875 ~ 7.115GHz:</b> 5.888 mW (EIRP: 11.79 dBm / 15.101 mW) |
| Antenna Type          | Refer to Note                                                                                                                                                                                                                                                           |
| Antenna Connector     | Refer to Note                                                                                                                                                                                                                                                           |
| Accessory Device      | NA                                                                                                                                                                                                                                                                      |
| Data Cable Supplied   | NA                                                                                                                                                                                                                                                                      |

Note:

- This report is prepared for FCC class II change. The difference compared with the Report No.: RFBARR-WTW-P21030485A-6 (C2PC) and Report No.: RFBARR-WTW-P21030485K-4 (C1PC) change. As the following:
  - ◆ Enable WiFi 6E 802.11a SISO mode through software change.
- According to above condition, all test items of 1TX mode for Wi-Fi 6GHz 11a needs to be performed. Only Verify Output Power and Radiated Emission tests according to original report worst channels. And all data were verified to meet the requirements.
- There are Bluetooth and WLAN (2.4GHz & 5GHz & 5.9GHz & 6GHz) technology used for the EUT.
- The equipment support 2 types of M.2 form factor A-E Key and E Key.
- Simultaneously transmission condition.

| Condition | Technology    |           |
|-----------|---------------|-----------|
| 1         | WLAN (5GHz)   | Bluetooth |
| 2         | WLAN (6GHz)   | Bluetooth |
| 3         | WLAN (5.9GHz) | Bluetooth |

Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.



## 6. The antennas provided to the EUT, please refer to the following table:

| Ant. Set | RF Chain No. | Brand  | Model                 | Antenna Net Gain (dBi)                           | Frequency Range (GHz)                                                                | Antenna Type | Connector Type | Cable Length (mm) |
|----------|--------------|--------|-----------------------|--------------------------------------------------|--------------------------------------------------------------------------------------|--------------|----------------|-------------------|
| 1        | Chain0       | PSA    | RFMTA340718EMLB302    | 3.18<br>4.92                                     | 2.4~2.4835<br>5.15~5.895                                                             | PIFA         | i-pex(MHF)     | 200               |
|          | Chain1       | PSA    | RFMTA340718EMLB302    | 3.18<br>4.92                                     | 2.4~2.4835<br>5.15~5.895                                                             | PIFA         | i-pex(MHF)     | 200               |
| 2        | Chain0       | PSA    | RFMTA311020EMMB301    | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09     | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA         | i-pex(MHF)     | 200               |
|          | Chain1       | PSA    | RFMTA311020EMMB301    | 1.71<br>4.82<br>4.76<br>4.29<br>4.61<br>4.09     | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA         | i-pex(MHF)     | 200               |
| 3        | Chain0       | VSO    | JR2Q00340-1           | 1.62<br>3.2<br>3.93<br>3.61<br>3.61<br>3.14      | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | Dipole       | RP SMA PLUG    | 40                |
|          | Chain1       | VSO    | JR2Q00340-1           | 1.62<br>3.2<br>3.93<br>3.61<br>3.61<br>3.14      | 2.4~2.4835<br>5.15~5.895<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | Dipole       | RP SMA PLUG    | 40                |
| 4        | Chain0       | Cortec | AN2450-4902BRS        | 2.42<br>3.87                                     | 2.4~2.4835<br>5.15~5.895                                                             | Dipole       | R-SMA          | 150               |
|          | Chain1       | Cortec | AN2450-4902BRS        | 2.42<br>3.87                                     | 2.4~2.4835<br>5.15~5.895                                                             | Dipole       | R-SMA          | 150               |
| 5        | Chain0       | MSI    | WA-P-LE-02-045 (Main) | 2.24<br>2.68<br>3.01<br>-1.23<br>-1.96<br>-3.68  | 2.4~2.4835<br>5.15~5.85<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125  | PIFA         | IPEX-4L        | 190               |
|          | Chain1       | MSI    | WA-P-LE-02-046 (Aux)  | -2.96<br>1.16<br>0.99<br>-2.31<br>-2.54<br>-7.44 | 2.4~2.4835<br>5.15~5.85<br>5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125  | PIFA         | IPEX-4L        | 325               |
| 6        | Chain0       | PSA    | RFPCA460632IMMB701    | -13.20<br>-13.67<br>-13.67<br>-13.09             | 5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125                             | Dipole       | IPEX           | 320mm             |
|          | Chain1       | PSA    | RFPCA460632IMMB701    | -13.20<br>-13.67<br>-13.67<br>-13.09             | 5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125                             | Dipole       | IPEX           | 320mm             |

|   |        |     |                    |                                      |                                                          |      |      |       |
|---|--------|-----|--------------------|--------------------------------------|----------------------------------------------------------|------|------|-------|
| 7 | Chain0 | PSA | RFMTA421230IMMB701 | -13.92<br>-13.91<br>-13.91<br>-14.46 | 5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA | IPEX | 300mm |
|   | Chain1 | PSA | RFMTA421230IMMB701 | -13.92<br>-13.91<br>-13.91<br>-14.46 | 5.925~6.425<br>6.425~6.525<br>6.525~6.875<br>6.875~7.125 | PIFA | IPEX | 300mm |

Note: For above antennas, max. gain was selected for the final test.

7. The EUT incorporates a MIMO function:

| 6GHz Band                                  |                       |     |          |                  |
|--------------------------------------------|-----------------------|-----|----------|------------------|
| MODULATION MODE                            | TX & RX CONFIGURATION |     | CDD mode | Beamforming mode |
| 802.11a                                    | 1TX or 2TX            | 2RX | Support  | Not Support      |
| 802.11ax (HE20)                            | 2TX                   | 2RX | Support  | Not Support      |
| 802.11ax (HE40)                            | 2TX                   | 2RX | Support  | Not Support      |
| 802.11ax (HE80)                            | 2TX                   | 2RX | Support  | Not Support      |
| 802.11ax (HE160)                           | 2TX                   | 2RX | Support  | Not Support      |
| 802.11ax<br>(RU26/52/106/242/484/996/1992) | 2TX                   | 2RX | Support  | Not Support      |

8. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

9. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

### 3.2 Description of Test Modes

#### FOR 5925 ~ 6425MHz (U-NII-5 band)

24 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 1       | 5955 MHz  | 5       | 5975 MHz  | 9       | 5995 MHz  | 13      | 6015 MHz  |
| 17      | 6035 MHz  | 21      | 6055 MHz  | 25      | 6075 MHz  | 29      | 6095 MHz  |
| 33      | 6115 MHz  | 37      | 6135 MHz  | 41      | 6155 MHz  | 45      | 6175 MHz  |
| 49      | 6195 MHz  | 53      | 6215 MHz  | 57      | 6235 MHz  | 61      | 6255 MHz  |
| 65      | 6275 MHz  | 69      | 6295 MHz  | 73      | 6315 MHz  | 77      | 6335 MHz  |
| 81      | 6355 MHz  | 85      | 6375 MHz  | 89      | 6395 MHz  | 93      | 6415 MHz  |

12 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 3       | 5965 MHz  | 11      | 6005 MHz  | 19      | 6045 MHz  | 27      | 6085 MHz  |
| 35      | 6125 MHz  | 43      | 6165 MHz  | 51      | 6205 MHz  | 59      | 6245 MHz  |
| 67      | 6285 MHz  | 75      | 6325 MHz  | 83      | 6365 MHz  | 91      | 6405 MHz  |

6 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 7       | 5985 MHz  | 23      | 6065 MHz  | 39      | 6145 MHz  | 55      | 6225 MHz  |
| 71      | 6305 MHz  | 87      | 6385 MHz  |         |           |         |           |

3 channels are provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 15      | 6025 MHz  | 47      | 6185 MHz  | 79      | 6345 MHz  |

### FOR 6425 ~ 6525MHz (U-NII-6 band)

5 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 97      | 6435 MHz  | 101     | 6455 MHz  | 105     | 6475 MHz  | 109     | 6495 MHz  |
| 113     | 6515 MHz  |         |           |         |           |         |           |

3 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 99      | 6445 MHz  | 107     | 6485 MHz  | *115    | 6525 MHz  |

1 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 103     | 6465 MHz  | *119    | 6545 MHz  |

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| *111    | 6505 MHz  |

### FOR 6525 ~ 6875MHz (U-NII-7 band)

18 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 117     | 6535 MHz  | 121     | 6555 MHz  | 125     | 6575 MHz  | 129     | 6595 MHz  |
| 133     | 6615 MHz  | 137     | 6635 MHz  | 141     | 6655 MHz  | 145     | 6675 MHz  |
| 149     | 6695 MHz  | 153     | 6715 MHz  | 157     | 6735 MHz  | 161     | 6755 MHz  |
| 165     | 6775 MHz  | 169     | 6795 MHz  | 173     | 6815 MHz  | 177     | 6835 MHz  |
| 181     | 6855 MHz  | *185    | 6875 MHz  |         |           |         |           |

8 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 123     | 6565 MHz  | 131     | 6605 MHz  | 139     | 6645 MHz  | 147     | 6685 MHz  |
| 155     | 6725 MHz  | 163     | 6765 MHz  | 171     | 6805 MHz  | 179     | 6845 MHz  |

5 channels are provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| *119    | 6545 MHz  | 135     | 6625 MHz  | 151     | 6705 MHz  | 167     | 6785 MHz  |
| *183    | 6865 MHz  |         |           |         |           |         |           |

2 channels are provided for 802.11ax (HE160):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 143     | 6665 MHz  | *175    | 6825 MHz  |

**FOR 6875 ~ 7125MHz (U-NII-8 band):**

12 channels are provided for 802.11a, 802.11ax (HE20):

| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 189     | 6895 MHz  | 193     | 6915 MHz  | 197     | 6935 MHz  | 201     | 6955 MHz  |
| 205     | 6975 MHz  | 209     | 6995 MHz  | 213     | 7015 MHz  | 217     | 7035 MHz  |
| 221     | 7055 MHz  | 225     | 7075 MHz  | 229     | 7095 MHz  | 233     | 7115 MHz  |

6 channels are provided for 802.11ax (HE40):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| *187    | 6885 MHz  | 203     | 6965 MHz  |
| 195     | 6925 MHz  | 227     | 7085 MHz  |
| 219     | 7045 MHz  | 211     | 7005 MHz  |

2 channel is provided for 802.11ax (HE80):

| Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|
| 199     | 6945 MHz  | 215     | 7025 MHz  |

1 channel is provided for 802.11ax (HE160):

| Channel | Frequency |
|---------|-----------|
| 207     | 6985 MHz  |

Note: \* mean this's straddle channel.

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To |       |     |     |     |      | Description                          |
|--------------------|---------------|-------|-----|-----|-----|------|--------------------------------------|
|                    | RE $\geq$ 1G  | RE<1G | IBE | PLC | CBP | APCM |                                      |
| 1                  | √             | √     | √   | √   | √   | √    | 1TX mode (E Key) With PIFA antenna   |
| 2                  | √             | √     | -   | -   | -   | -    | 1TX mode (E Key) With Dipole antenna |
| 3                  | √             | -     | -   | -   | -   | √    | 2TX mode (E Key) With PIFA antenna   |
| 4                  | √             | -     | -   | -   | -   | -    | 2TX mode (E Key) With Dipole antenna |

Where **RE $\geq$ 1G**: Radiated Emission above 1GHz  
**PLC**: Power Line Conducted Emission  
**IBE**: In-Band Emission (MASK)

**RE<1G**: Radiated Emission below 1GHz  
**APCM**: Antenna Port Conducted Measurement  
**CBP**:Contention Based Protocol

Note: In the original report, the EUT's antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on Z-plane

#### **Radiated Emission Measurement (Above 1GHz):**

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

| Configure Mode | Mode             | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|----------------|------------------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| 1, 2           | 802.11a          | 5955-6415        | 1 to 93           | 1, 45, 93      | OFDM                  | BPSK            | 6Mb/s               |
|                |                  | 6435-6525        | 97 to 113         | 97, 105, 113   | OFDM                  | BPSK            | 6Mb/s               |
|                |                  | 6525-6875        | 117 to 181        | 117, 153, 181  | OFDM                  | BPSK            | MCS0                |
|                |                  | 6875-7115        | 185 to 233        | 185, 213, 233  | OFDM                  | BPSK            | 6Mb/s               |
| 3, 4           | 802.11ax (HE20)  | 5955-6415        | 1 to 93           | 113            | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6435-6525        | 97 to 113         |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6525-6875        | 117 to 181        |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6875-7115        | 185 to 233        |                | OFDMA                 | BPSK            | MCS0                |
|                | 802.11ax (HE40)  | 5955-6415        | 3 to 91           | 115            | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6435-6525        | 99 to 115         |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6525-6875        | 115 to 187        |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6875-7115        | 187 to 227        |                | OFDMA                 | BPSK            | MCS0                |
|                | 802.11ax (HE80)  | 5955-6415        | 7 to 87           | 119            | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6435-6525        | 103 to 119        |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6525-6875        | 119 to 183        |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6875-7115        | 183 to 215        |                | OFDMA                 | BPSK            | MCS0                |
|                | 802.11ax (HE160) | 5955-6415        | 15 to 79          | 79             | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6435-6525        | 111               |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6525-6875        | 143 to 175        |                | OFDMA                 | BPSK            | MCS0                |
|                |                  | 6875-7115        | 207               |                | OFDMA                 | BPSK            | MCS0                |

### **Radiated Emission Measurement (Below 1GHz):**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Configure Mode | Mode    | FREQ. Band (MHz)                                 | Available Channel                                | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|----------------|---------|--------------------------------------------------|--------------------------------------------------|----------------|-----------------------|-----------------|---------------------|
| 1, 2           | 802.11a | 5955-6415<br>6435-6525<br>6525-6875<br>6875-7115 | 1 to 93<br>97 to 113<br>117 to 181<br>185 to 233 | 181            | OFDM                  | BPSK            | 6Mb/s               |

### **In-Band Emission (MASK) Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Configure Mode | Mode    | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|----------------|---------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| 1              | 802.11a | 5955-6415        | 1 to 93           | 1, 45, 93      | OFDM                  | BPSK            | 6Mb/s               |
|                |         | 6435-6525        | 97 to 113         | 97, 105, 113   | OFDM                  | BPSK            | 6Mb/s               |
|                |         | 6525-6875        | 117 to 181        | 117, 153, 181  | OFDM                  | BPSK            | MCS0                |
|                |         | 6875-7115        | 185 to 233        | 185, 213, 233  | OFDM                  | BPSK            | 6Mb/s               |

### **Power Line Conducted Emission Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Configure Mode | Mode    | FREQ. Band (MHz)                                 | Available Channel                                | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|----------------|---------|--------------------------------------------------|--------------------------------------------------|----------------|-----------------------|-----------------|---------------------|
| 1              | 802.11a | 5955-6415<br>6435-6525<br>6525-6875<br>6875-7115 | 1 to 93<br>97 to 113<br>117 to 181<br>185 to 233 | 181            | OFDM                  | BPSK            | 6Mb/s               |

**Antenna Port Conducted Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Configure Mode          | Mode                | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|-------------------------|---------------------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| 1                       | 802.11a             | 5955-6415        | 1 to 93           | 1, 45, 93      | OFDM                  | BPSK            | 6Mb/s               |
|                         |                     | 6435-6525        | 97 to 113         | 97, 105, 113   | OFDM                  | BPSK            | 6Mb/s               |
|                         |                     | 6525-6875        | 117 to 181        | 117, 153, 181  | OFDM                  | BPSK            | MCS0                |
|                         |                     | 6875-7115        | 185 to 233        | 185, 213, 233  | OFDM                  | BPSK            | 6Mb/s               |
| 3<br>(For output power) | 802.11ax<br>(HE20)  | 5955-6415        | 1 to 93           | 113            | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6435-6525        | 97 to 113         |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6525-6875        | 117 to 181        |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6875-7115        | 185 to 233        |                | OFDMA                 | BPSK            | MCS0                |
|                         | 802.11ax<br>(HE40)  | 5955-6415        | 3 to 91           | 115            | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6435-6525        | 99 to 115         |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6525-6875        | 115 to 179        |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6875-7115        | 187 to 227        |                | OFDMA                 | BPSK            | MCS0                |
|                         | 802.11ax<br>(HE80)  | 5955-6415        | 7 to 87           | 119            | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6435-6525        | 103 to 119        |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6525-6875        | 119 to 167        |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6875-7115        | 183 to 215        |                | OFDMA                 | BPSK            | MCS0                |
|                         | 802.11ax<br>(HE160) | 5955-6415        | 15 to 79          | 79             | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6435-6525        | 111               |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6525-6875        | 143 to 175        |                | OFDMA                 | BPSK            | MCS0                |
|                         |                     | 6875-7115        | 207               |                | OFDMA                 | BPSK            | MCS0                |

**Contention Based Protocol Measurement:**

- ☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
- ☒ Following channel(s) was (were) selected for the final test as listed below.

| Mode    | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate Parameter |
|---------|------------------|-------------------|----------------|-----------------------|-----------------|---------------------|
| 802.11a | 5955-6415        | 1 to 93           | 1              | OFDMA                 | BPSK            | MCS0                |
|         | 6435-6525        | 97 to 113         | 97             | OFDMA                 | BPSK            | MCS0                |
|         | 6525-6855        | 117 to 185        | 129            | OFDMA                 | BPSK            | MCS0                |
|         | 6875-7115        | 189 to 233        | 193            | OFDMA                 | BPSK            | MCS0                |



**Test Condition:**

| Applicable To                | Environmental Conditions | Input Power (System) | Tested By    |
|------------------------------|--------------------------|----------------------|--------------|
| <b>RE<math>\geq</math>1G</b> | 25deg. C, 65%RH          | 120Vac, 60Hz         | Nelson Teng  |
|                              | 25deg. C, 75%RH          |                      | Tom Yang     |
|                              | 24deg. C, 66%RH          |                      | Tom Yang     |
| <b>RE&lt;1G</b>              | 22deg. C, 62%RH          | 120Vac, 60Hz         | Sampson Chen |
| <b>PLC</b>                   | 22deg. C, 65%RH          | 120Vac, 60Hz         | Sampson Chen |
| <b>APCM</b>                  | 24deg. C, 62%RH          | 120Vac, 60Hz         | Eric Peng    |
| <b>CBP</b>                   | 25deg. C, 60%RH          | 120Vac, 60Hz         | Adele Chen   |

### 3.3 Duty Cycle of Test Signal

Duty cycle of test signal is < 98 %, duty factor is required

**802.11a:** Duty cycle = 5.484 ms/5.824 ms = 0.942, Duty factor =  $10 \cdot \log(1 / \text{Duty cycle}) = 0.26 \text{ dB}$

**802.11ax (HE20):** Duty cycle = 3.784 ms/4.252 ms = 0.89, Duty factor =  $10 \cdot \log(1 / \text{Duty cycle}) = 0.51 \text{ dB}$

**802.11ax (HE40):** Duty cycle = 3.786 ms/4.259 ms = 0.889, Duty factor =  $10 \cdot \log(1 / \text{Duty cycle}) = 0.51 \text{ dB}$

**802.11ax (HE80):** Duty cycle = 1.836 ms/3.307 ms = 0.796, Duty factor =  $10 \cdot \log(1 / \text{Duty cycle}) = 0.99 \text{ dB}$

**802.11ax (HE160):** Duty cycle = 0.955 ms/1.422 ms = 0.672, Duty factor =  $10 \cdot \log(1 / \text{Duty cycle}) = 1.73 \text{ dB}$



### 3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

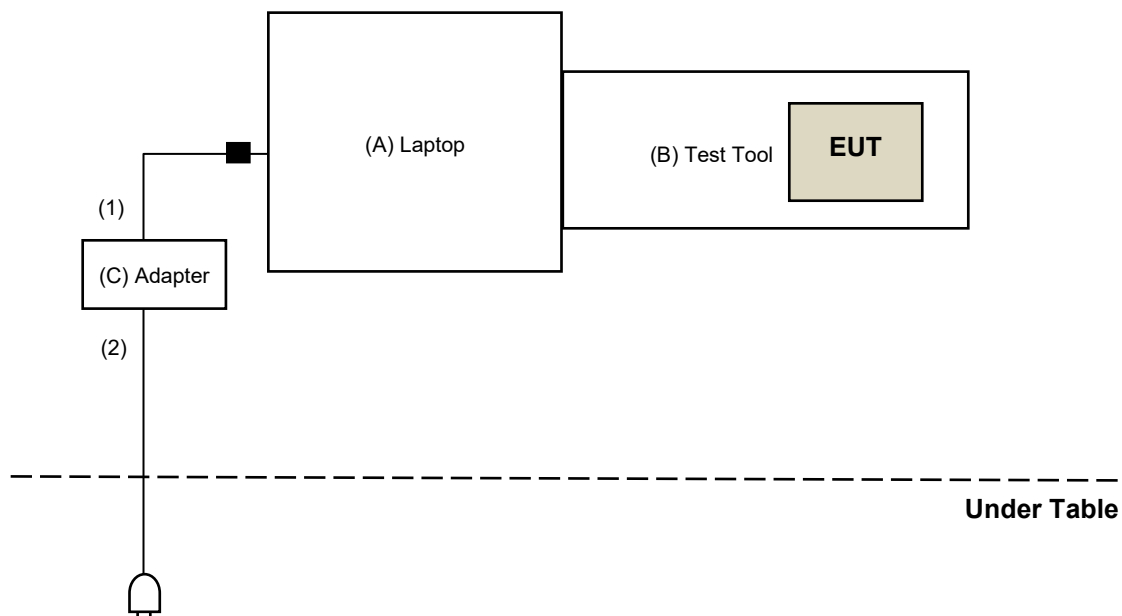
| ID | Product   | Brand    | Model No.  | Serial No. | FCC ID | Remarks            |
|----|-----------|----------|------------|------------|--------|--------------------|
| A. | Laptop    | DELL     | E5430      | HYV4VY1    | DoC    | Provided by Lab    |
| B. | Test Tool | MediaTek | MTK1849    | NA         | NA     | Supplied by client |
| C. | Adapter   | Dell     | LA65NS2-01 | NA         | NA     | Provided by Lab    |

| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks         |
|----|--------------|------|------------|--------------------|--------------|-----------------|
| 1. | DC Cable     | 1    | 1.8        | No                 | 1            | Provided by Lab |
| 2. | AC Cable     | 1    | 1.8        | No                 | 0            | Provided by Lab |

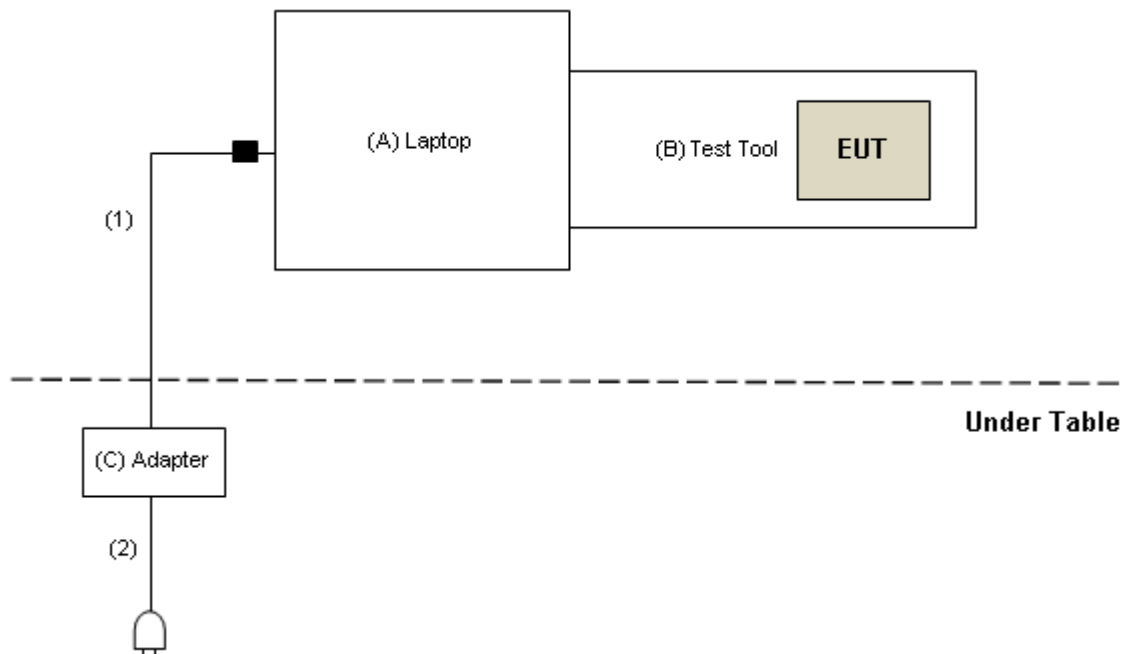
Note: The core(s) is(are) originally attached to the cable(s).

### 3.4.1 Configuration of System under Test

#### For AC Power Conducted Emission test:



#### For Radiated Emissions test:



### 3.5 General Description of Applied Standard

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

**Test Standard:**

**FCC Part 15, Subpart E (15.407)**

**ANSI C63.10-2013**

All test items have been performed and recorded as per the above standards.

**References Test Guidance:**

**KDB 987594 D02 EMC Measurement v01r01**

**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**

**KDB 662911 D01 Multiple Transmitter Output v02r01**

All test items have been performed as a reference to the above KDB test guidance.

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

#### 4.1.1 Limits of Radiated Emission and Bandedge Measurement

Radiated emissions which fall in the restricted bands must comply with the radiated emission limits specified as below table.

| Frequencies (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-------------------|-----------------------------------|-------------------------------|
| 0.009 ~ 0.490     | 2400/F(kHz)                       | 300                           |
| 0.490 ~ 1.705     | 24000/F(kHz)                      | 30                            |
| 1.705 ~ 30.0      | 30                                | 30                            |
| 30 ~ 88           | 100                               | 3                             |
| 88 ~ 216          | 150                               | 3                             |
| 216 ~ 960         | 200                               | 3                             |
| Above 960         | 500                               | 3                             |

**NOTE:**

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dBuV/m) = 20 log Emission level (uV/m).
3. For frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.

Limits of unwanted emission out of the restricted bands

| Frequencies (MHz)     | EIRP Limit             | Equivalent Field Strength at 3m |
|-----------------------|------------------------|---------------------------------|
| 5925MHz > F > 7125MHz | Peak:-7 (dBm/MHz)      | 88.2(dBμV/m)                    |
|                       | Average: -27 (dBm/MHz) | 68.2(dBμV/m)                    |

**Note:**

The following formula is used to convert the equipment isotropic radiated power (eirp) to field strength:

$$E = \frac{1000000\sqrt{30P}}{3} \mu\text{V/m, where P is the eirp (Watts).}$$

#### 4.1.2 Test Instruments

##### For Radiated emission test:

| Description & Manufacturer                          | Model No.            | Serial No.  | Calibrated Date | Calibrated Until |
|-----------------------------------------------------|----------------------|-------------|-----------------|------------------|
| Test Receiver<br>Agilent                            | N9038A               | MY51210202  | 2021/11/19      | 2022/11/18       |
| Software                                            | ADT_Radiated_V8.7.08 | NA          | NA              | NA               |
| Boresight Antenna Tower &<br>Turn Table<br>Max-Full | MF-7802BS            | MF780208530 | NA              | NA               |
| Pre_Amplifier<br>EMCI                               | EMC001340            | 980142      | 2021/5/24       | 2022/5/23        |
| Loop Antenna<br>TESEQ                               | HLA 6121             | 45745       | 2021/7/21       | 2022/7/20        |
| RF Coaxial Cable<br>JYEBO                           | 5D-FB                | LOOPCAB-001 | 2022/1/6        | 2023/1/5         |
| RF Coaxial Cable<br>JYEBO                           | 5D-FB                | LOOPCAB-002 | 2022/1/6        | 2023/1/5         |
| Pre_Amplifier<br>EMCI                               | EMC330N              | 980701      | 2022/3/8        | 2023/3/7         |
| Trilog Broadband Antenna<br>Schwarzbeck             | VULB 9168            | 9168-406    | 2021/10/27      | 2022/10/26       |
| RF Coaxial Cable<br>COMMATE/PEWC                    | 8D                   | 966-4-1     | 2022/3/8        | 2023/3/7         |
| RF Coaxial Cable<br>COMMATE/PEWC                    | 8D                   | 966-4-2     | 2022/3/8        | 2023/3/7         |
| RF Coaxial Cable<br>COMMATE/PEWC                    | 8D                   | 966-4-3     | 2022/3/8        | 2023/3/7         |
| Fixed attenuator<br>Mini-Circuits                   | UNAT-5+              | PAD-ATT5-03 | 2022/1/10       | 2023/1/9         |
| Horn Antenna<br>Schwarzbeck                         | BBHA 9120D           | 9120D-783   | 2021/11/14      | 2022/11/13       |
| Pre_Amplifier<br>EMCI                               | EMC 12630 SE         | 980638      | 2021/4/7        | 2022/4/6         |
| RF Cable-Frequency<br>Range : 1-26.5GHz<br>EMCI     | EMC104-SM-SM-1200    | 160922      | 2021/12/24      | 2022/12/23       |
| RF Coaxial Cable<br>EMCI                            | EMC104-SM-SM-2000    | 180502      | 2021/4/26       | 2022/4/25        |
| RF Coaxial Cable<br>EMCI                            | EMC104-SM-SM-6000    | 210704      | 2021/11/9       | 2022/11/8        |

##### Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. Tested Date: 2022/3/15 ~ 2022/3/22

**For other test items:**

| DESCRIPTION & MANUFACTURER                 | MODEL NO.                     | SERIAL NO.    | CALIBRATED DATE | CALIBRATED UNTIL |
|--------------------------------------------|-------------------------------|---------------|-----------------|------------------|
| Spectrum Analyzer R&S                      | FSV40                         | 100964        | 2021/5/31       | 2022/5/30        |
| Attenuator WOKEN                           | MDCS18N-10                    | MDCS18N-10-01 | 2021/4/13       | 2022/4/12        |
| Software                                   | ADT_RF Test Software V6.6.5.4 | NA            | NA              | NA               |
| Power Meter Anritsu                        | ML2495A                       | 1529002       | 2021/6/21       | 2022/6/20        |
| Pulse Power Sensor Anritsu                 | MA2411B                       | 1339443       | 2021/5/31       | 2022/5/30        |
| DC POWER SUPPLY Topward                    | 6603D                         | 795558        | NA              | NA               |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR              | MAA0812-008   | 2022/1/14       | 2023/1/13        |
| True RMS Clamp Meter Fluke                 | 325                           | 31130711WS    | 2021/6/2        | 2022/6/1         |

- NOTE:**
1. The test was performed in Oven room 2.
  2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
  3. Tested Date: 2022/3/31



#### 4.1.3 Test Procedure

##### For Radiated emission below 30MHz

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

##### NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 9kHz at frequency below 30MHz.

##### For Radiated emission above 30MHz

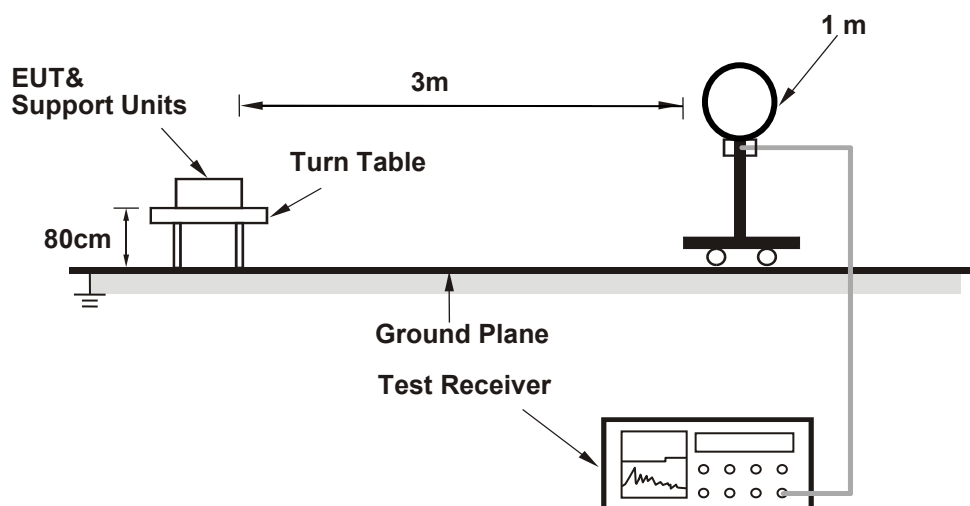
- a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.
- f. The test-receiver system was set to peak detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the RMS detector is unnecessary.

##### Note:

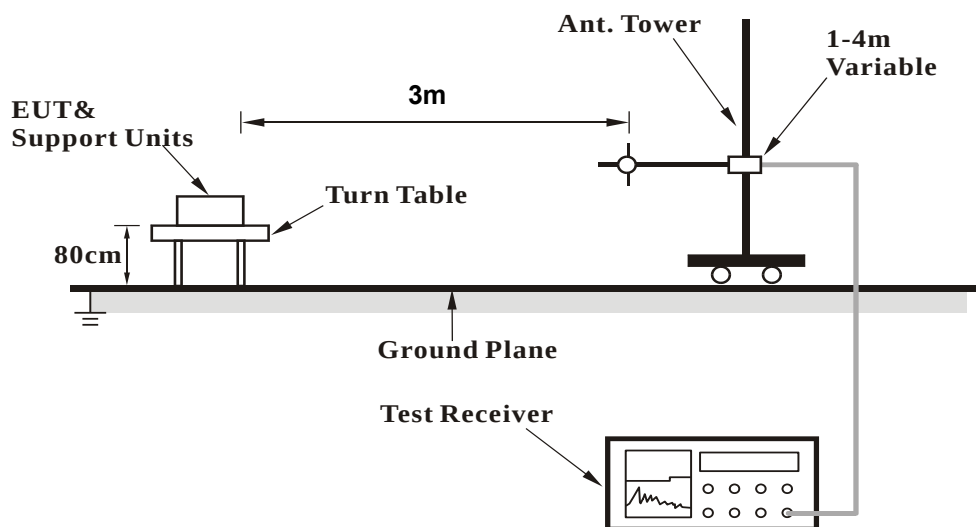
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The detection is peak and the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is  $\geq 1/T$  (Duty cycle  $< 98\%$ ) or 10Hz (Duty cycle  $\geq 98\%$ ) for Average measurement (AV) at frequency above 1GHz.
4. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.1.4 Test Setup

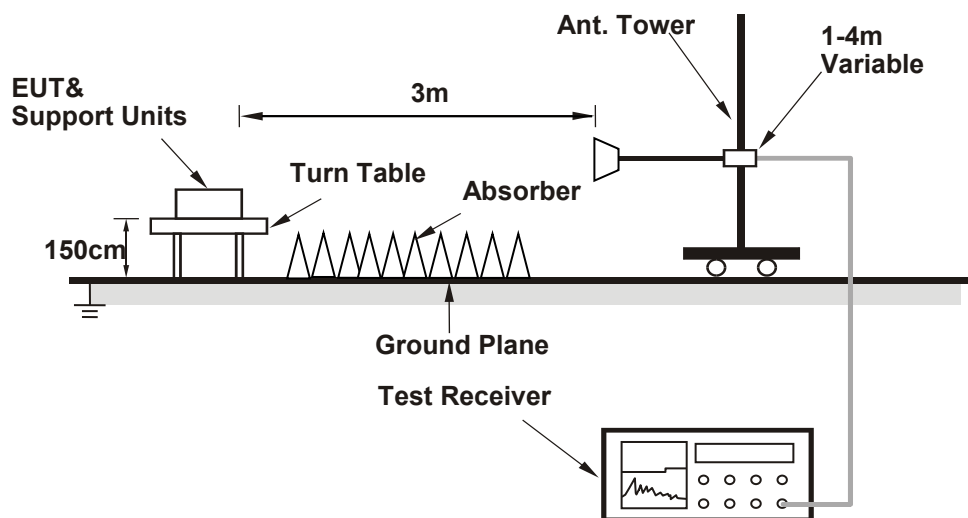
##### For Radiated emission below 30MHz



##### For Radiated emission 30MHz to 1GHz



## For Radiated emission above 1GHz



For the actual test configuration, please refer to the attached file (Test Setup Photo).

### 4.1.5 EUT Operating Condition

- Connected the EUT with the Laptop which is placed on the testing table.
- Controlling software (QAtool\_7922\_HQA\_20210310) has been activated to set the EUT under transmission condition continuously.

#### 4.1.6 Test Results (Mode 1)

##### Above 1GHz Data:

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 1 : 5955 MHz                                             |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5925.00        | 64.9 PK                 | 88.2           | -23.3       | 2.14 H             | 92                   | 59.0             | 5.9                      |
| 2                                                    | #5925.00        | 49.7 AV                 | 68.2           | -18.5       | 2.14 H             | 92                   | 43.8             | 5.9                      |
| 3                                                    | *5955.00        | 115.0 PK                |                |             | 2.14 H             | 92                   | 109.1            | 5.9                      |
| 4                                                    | *5955.00        | 106.4 AV                |                |             | 2.14 H             | 92                   | 100.5            | 5.9                      |
| 5                                                    | 11910.00        | 54.5 PK                 | 74.0           | -19.5       | 2.20 H             | 123                  | 45.9             | 8.6                      |
| 6                                                    | 11910.00        | 44.3 AV                 | 54.0           | -9.7        | 2.20 H             | 123                  | 35.7             | 8.6                      |
| 7                                                    | 17865.00        | 54.6 PK                 | 74.0           | -19.4       | 1.57 H             | 100                  | 62.0             | -7.4                     |
| 8                                                    | 17865.00        | 44.5 AV                 | 54.0           | -9.5        | 1.57 H             | 100                  | 51.9             | -7.4                     |
| 9                                                    | 23820.00        | 45.8 PK                 | 74.0           | -28.2       | 2.08 H             | 157                  | 48.5             | -2.7                     |
| 10                                                   | 23820.00        | 35.8 AV                 | 54.0           | -18.2       | 2.08 H             | 157                  | 38.5             | -2.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5925.00        | 58.3 PK                 | 88.2           | -29.9       | 2.08 V             | 40                   | 52.4             | 5.9                      |
| 2                                                    | #5925.00        | 47.9 AV                 | 68.2           | -20.3       | 2.08 V             | 40                   | 42.0             | 5.9                      |
| 3                                                    | *5955.00        | 109.7 PK                |                |             | 2.08 V             | 40                   | 103.8            | 5.9                      |
| 4                                                    | *5955.00        | 101.6 AV                |                |             | 2.08 V             | 40                   | 95.7             | 5.9                      |
| 5                                                    | 11910.00        | 56.9 PK                 | 74.0           | -17.1       | 1.23 V             | 246                  | 48.3             | 8.6                      |
| 6                                                    | 11910.00        | 45.5 AV                 | 54.0           | -8.5        | 1.23 V             | 246                  | 36.9             | 8.6                      |
| 7                                                    | 17865.00        | 59.5 PK                 | 74.0           | -14.5       | 2.41 V             | 278                  | 66.9             | -7.4                     |
| 8                                                    | 17865.00        | 47.8 AV                 | 54.0           | -6.2        | 2.41 V             | 278                  | 55.2             | -7.4                     |
| 9                                                    | 23820.00        | 46.6 PK                 | 74.0           | -27.4       | 2.19 V             | 221                  | 49.3             | -2.7                     |
| 10                                                   | 23820.00        | 36.8 AV                 | 54.0           | -17.2       | 2.19 V             | 221                  | 39.5             | -2.7                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 45 : 6175 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6175.00        | 114.9 PK                |                |             | 2.12 H             | 91                   | 108.8            | 6.1                      |
| 2                                                    | *6175.00        | 106.4 AV                |                |             | 2.12 H             | 91                   | 100.3            | 6.1                      |
| 3                                                    | 12350.00        | 54.2 PK                 | 74.0           | -19.8       | 2.16 H             | 124                  | 45.4             | 8.8                      |
| 4                                                    | 12350.00        | 43.9 AV                 | 54.0           | -10.1       | 2.16 H             | 124                  | 35.1             | 8.8                      |
| 5                                                    | 18525.00        | 54.6 PK                 | 74.0           | -19.4       | 1.55 H             | 110                  | 61.8             | -7.2                     |
| 6                                                    | 18525.00        | 44.6 AV                 | 54.0           | -9.4        | 1.55 H             | 110                  | 51.8             | -7.2                     |
| 7                                                    | #24700.00       | 45.3 PK                 | 88.2           | -42.9       | 2.10 H             | 153                  | 46.9             | -1.6                     |
| 8                                                    | #24700.00       | 35.5 AV                 | 68.2           | -32.7       | 2.10 H             | 153                  | 37.1             | -1.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6175.00        | 109.1 PK                |                |             | 2.02 V             | 58                   | 103.0            | 6.1                      |
| 2                                                    | *6175.00        | 100.4 AV                |                |             | 2.02 V             | 58                   | 94.3             | 6.1                      |
| 3                                                    | 12350.00        | 56.7 PK                 | 74.0           | -17.3       | 1.23 V             | 248                  | 47.9             | 8.8                      |
| 4                                                    | 12350.00        | 45.4 AV                 | 54.0           | -8.6        | 1.23 V             | 248                  | 36.6             | 8.8                      |
| 5                                                    | 18525.00        | 59.3 PK                 | 74.0           | -14.7       | 2.36 V             | 270                  | 66.5             | -7.2                     |
| 6                                                    | 18525.00        | 47.4 AV                 | 54.0           | -6.6        | 2.36 V             | 270                  | 54.6             | -7.2                     |
| 7                                                    | #24700.00       | 47.4 PK                 | 88.2           | -40.8       | 2.23 V             | 219                  | 49.0             | -1.6                     |
| 8                                                    | #24700.00       | 37.4 AV                 | 68.2           | -30.8       | 2.23 V             | 219                  | 39.0             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 93 : 6415 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6415.00        | 115.7 PK                |                |             | 2.10 H             | 94                   | 109.6            | 6.1                      |
| 2                                                    | *6415.00        | 106.9 AV                |                |             | 2.10 H             | 94                   | 100.8            | 6.1                      |
| 3                                                    | #12830.00       | 54.1 PK                 | 88.2           | -34.1       | 2.21 H             | 114                  | 45.3             | 8.8                      |
| 4                                                    | #12830.00       | 44.0 AV                 | 68.2           | -24.2       | 2.21 H             | 114                  | 35.2             | 8.8                      |
| 5                                                    | 19245.00        | 54.4 PK                 | 74.0           | -19.6       | 1.57 H             | 115                  | 61.3             | -6.9                     |
| 6                                                    | 19245.00        | 44.1 AV                 | 54.0           | -9.9        | 1.57 H             | 115                  | 51.0             | -6.9                     |
| 7                                                    | #25660.00       | 45.3 PK                 | 88.2           | -42.9       | 2.04 H             | 166                  | 45.7             | -0.4                     |
| 8                                                    | #25660.00       | 35.5 AV                 | 68.2           | -32.7       | 2.04 H             | 166                  | 35.9             | -0.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6415.00        | 109.8 PK                |                |             | 2.05 V             | 52                   | 103.7            | 6.1                      |
| 2                                                    | *6415.00        | 100.9 AV                |                |             | 2.05 V             | 52                   | 94.8             | 6.1                      |
| 3                                                    | #12830.00       | 56.7 PK                 | 88.2           | -31.5       | 1.28 V             | 259                  | 47.9             | 8.8                      |
| 4                                                    | #12830.00       | 45.3 AV                 | 68.2           | -22.9       | 1.28 V             | 259                  | 36.5             | 8.8                      |
| 5                                                    | 19245.00        | 59.9 PK                 | 74.0           | -14.1       | 2.40 V             | 281                  | 66.8             | -6.9                     |
| 6                                                    | 19245.00        | 47.8 AV                 | 54.0           | -6.2        | 2.40 V             | 281                  | 54.7             | -6.9                     |
| 7                                                    | #25660.00       | 47.4 PK                 | 88.2           | -40.8       | 2.23 V             | 242                  | 47.8             | -0.4                     |
| 8                                                    | #25660.00       | 37.7 AV                 | 68.2           | -30.5       | 2.23 V             | 242                  | 38.1             | -0.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 97 : 6435 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6435.00        | 114.4 PK                |                |             | 2.11 H             | 95                   | 108.2            | 6.2                      |
| 2                                                    | *6435.00        | 105.9 AV                |                |             | 2.11 H             | 95                   | 99.7             | 6.2                      |
| 3                                                    | #12870.00       | 54.7 PK                 | 88.2           | -33.5       | 2.21 H             | 129                  | 45.9             | 8.8                      |
| 4                                                    | #12870.00       | 44.3 AV                 | 68.2           | -23.9       | 2.21 H             | 129                  | 35.5             | 8.8                      |
| 5                                                    | 19305.00        | 54.8 PK                 | 74.0           | -19.2       | 1.51 H             | 104                  | 62.0             | -7.2                     |
| 6                                                    | 19305.00        | 44.4 AV                 | 54.0           | -9.6        | 1.51 H             | 104                  | 51.6             | -7.2                     |
| 7                                                    | #25740.00       | 45.5 PK                 | 88.2           | -42.7       | 2.06 H             | 158                  | 45.8             | -0.3                     |
| 8                                                    | #25740.00       | 35.4 AV                 | 68.2           | -32.8       | 2.06 H             | 158                  | 35.7             | -0.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6435.00        | 109.1 PK                |                |             | 2.08 V             | 44                   | 102.9            | 6.2                      |
| 2                                                    | *6435.00        | 100.2 AV                |                |             | 2.08 V             | 44                   | 94.0             | 6.2                      |
| 3                                                    | #12870.00       | 56.9 PK                 | 88.2           | -31.3       | 1.24 V             | 231                  | 48.1             | 8.8                      |
| 4                                                    | #12870.00       | 45.5 AV                 | 68.2           | -22.7       | 1.24 V             | 231                  | 36.7             | 8.8                      |
| 5                                                    | 19305.00        | 60.1 PK                 | 74.0           | -13.9       | 2.38 V             | 261                  | 67.3             | -7.2                     |
| 6                                                    | 19305.00        | 48.0 AV                 | 54.0           | -6.0        | 2.38 V             | 261                  | 55.2             | -7.2                     |
| 7                                                    | #25740.00       | 46.9 PK                 | 88.2           | -41.3       | 2.25 V             | 237                  | 47.2             | -0.3                     |
| 8                                                    | #25740.00       | 37.1 AV                 | 68.2           | -31.1       | 2.25 V             | 237                  | 37.4             | -0.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 105 : 6475 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6475.00        | 114.1 PK                |                |             | 2.09 H             | 85                   | 107.9            | 6.2                      |
| 2                                                    | *6475.00        | 105.7 AV                |                |             | 2.09 H             | 85                   | 99.5             | 6.2                      |
| 3                                                    | #12950.00       | 54.4 PK                 | 88.2           | -33.8       | 2.15 H             | 121                  | 45.6             | 8.8                      |
| 4                                                    | #12950.00       | 44.3 AV                 | 68.2           | -23.9       | 2.15 H             | 121                  | 35.5             | 8.8                      |
| 5                                                    | 19425.00        | 55.1 PK                 | 74.0           | -18.9       | 1.63 H             | 101                  | 62.0             | -6.9                     |
| 6                                                    | 19425.00        | 44.9 AV                 | 54.0           | -9.1        | 1.63 H             | 101                  | 51.8             | -6.9                     |
| 7                                                    | #25900.00       | 45.8 PK                 | 88.2           | -42.4       | 2.14 H             | 168                  | 46.0             | -0.2                     |
| 8                                                    | #25900.00       | 35.7 AV                 | 68.2           | -32.5       | 2.14 H             | 168                  | 35.9             | -0.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6475.00        | 109.4 PK                |                |             | 2.05 V             | 56                   | 103.2            | 6.2                      |
| 2                                                    | *6475.00        | 100.4 AV                |                |             | 2.05 V             | 56                   | 94.2             | 6.2                      |
| 3                                                    | #12950.00       | 56.9 PK                 | 88.2           | -31.3       | 1.23 V             | 254                  | 48.1             | 8.8                      |
| 4                                                    | #12950.00       | 45.4 AV                 | 68.2           | -22.8       | 1.23 V             | 254                  | 36.6             | 8.8                      |
| 5                                                    | 19425.00        | 59.8 PK                 | 74.0           | -14.2       | 2.43 V             | 263                  | 66.7             | -6.9                     |
| 6                                                    | 19425.00        | 47.9 AV                 | 54.0           | -6.1        | 2.43 V             | 263                  | 54.8             | -6.9                     |
| 7                                                    | #25900.00       | 47.3 PK                 | 88.2           | -40.9       | 2.22 V             | 232                  | 47.5             | -0.2                     |
| 8                                                    | #25900.00       | 37.3 AV                 | 68.2           | -30.9       | 2.22 V             | 232                  | 37.5             | -0.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 113 : 6515 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 114.6 PK                |                |             | 2.15 H             | 94                   | 108.4            | 6.2                      |
| 2                                                    | *6515.00        | 105.7 AV                |                |             | 2.15 H             | 94                   | 99.5             | 6.2                      |
| 3                                                    | #13030.00       | 54.9 PK                 | 88.2           | -33.3       | 2.24 H             | 126                  | 46.1             | 8.8                      |
| 4                                                    | #13030.00       | 44.6 AV                 | 68.2           | -23.6       | 2.24 H             | 126                  | 35.8             | 8.8                      |
| 5                                                    | 19545.00        | 54.5 PK                 | 74.0           | -19.5       | 1.62 H             | 109                  | 61.1             | -6.6                     |
| 6                                                    | 19545.00        | 44.4 AV                 | 54.0           | -9.6        | 1.62 H             | 109                  | 51.0             | -6.6                     |
| 7                                                    | #26060.00       | 45.6 PK                 | 88.2           | -42.6       | 2.06 H             | 166                  | 45.7             | -0.1                     |
| 8                                                    | #26060.00       | 35.3 AV                 | 68.2           | -32.9       | 2.06 H             | 166                  | 35.4             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 109.4 PK                |                |             | 2.05 V             | 54                   | 103.2            | 6.2                      |
| 2                                                    | *6515.00        | 100.6 AV                |                |             | 2.05 V             | 54                   | 94.4             | 6.2                      |
| 3                                                    | #13030.00       | 57.1 PK                 | 88.2           | -31.1       | 1.22 V             | 254                  | 48.3             | 8.8                      |
| 4                                                    | #13030.00       | 45.7 AV                 | 68.2           | -22.5       | 1.22 V             | 254                  | 36.9             | 8.8                      |
| 5                                                    | 19545.00        | 59.5 PK                 | 74.0           | -14.5       | 2.35 V             | 261                  | 66.1             | -6.6                     |
| 6                                                    | 19545.00        | 47.4 AV                 | 54.0           | -6.6        | 2.35 V             | 261                  | 54.0             | -6.6                     |
| 7                                                    | #26060.00       | 46.4 PK                 | 88.2           | -41.8       | 2.19 V             | 233                  | 46.5             | -0.1                     |
| 8                                                    | #26060.00       | 36.9 AV                 | 68.2           | -31.3       | 2.19 V             | 233                  | 37.0             | -0.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 117 : 6535 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6535.00        | 113.9 PK                |                |             | 2.08 H             | 101                  | 107.7            | 6.2                      |
| 2                                                    | *6535.00        | 105.4 AV                |                |             | 2.08 H             | 101                  | 99.2             | 6.2                      |
| 3                                                    | #13070.00       | 54.5 PK                 | 88.2           | -33.7       | 2.17 H             | 126                  | 45.7             | 8.8                      |
| 4                                                    | #13070.00       | 44.3 AV                 | 68.2           | -23.9       | 2.17 H             | 126                  | 35.5             | 8.8                      |
| 5                                                    | 19605.00        | 54.7 PK                 | 74.0           | -19.3       | 1.55 H             | 99                   | 61.2             | -6.5                     |
| 6                                                    | 19605.00        | 44.7 AV                 | 54.0           | -9.3        | 1.55 H             | 99                   | 51.2             | -6.5                     |
| 7                                                    | #26140.00       | 45.5 PK                 | 88.2           | -42.7       | 2.06 H             | 143                  | 45.5             | 0.0                      |
| 8                                                    | #26140.00       | 35.3 AV                 | 68.2           | -32.9       | 2.06 H             | 143                  | 35.3             | 0.0                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6535.00        | 109.6 PK                |                |             | 2.02 V             | 54                   | 103.4            | 6.2                      |
| 2                                                    | *6535.00        | 100.6 AV                |                |             | 2.02 V             | 54                   | 94.4             | 6.2                      |
| 3                                                    | #13070.00       | 56.6 PK                 | 88.2           | -31.6       | 1.27 V             | 230                  | 47.8             | 8.8                      |
| 4                                                    | #13070.00       | 45.0 AV                 | 68.2           | -23.2       | 1.27 V             | 230                  | 36.2             | 8.8                      |
| 5                                                    | 19605.00        | 59.1 PK                 | 74.0           | -14.9       | 2.37 V             | 276                  | 65.6             | -6.5                     |
| 6                                                    | 19605.00        | 47.3 AV                 | 54.0           | -6.7        | 2.37 V             | 276                  | 53.8             | -6.5                     |
| 7                                                    | #26140.00       | 47.3 PK                 | 88.2           | -40.9       | 2.16 V             | 242                  | 47.3             | 0.0                      |
| 8                                                    | #26140.00       | 37.5 AV                 | 68.2           | -30.7       | 2.16 V             | 242                  | 37.5             | 0.0                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 153 : 6715 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6715.00        | 114.9 PK                |                |             | 2.06 H             | 102                  | 108.7            | 6.2                      |
| 2                                                    | *6715.00        | 106.3 AV                |                |             | 2.06 H             | 102                  | 100.1            | 6.2                      |
| 3                                                    | #13430.00       | 54.6 PK                 | 88.2           | -33.6       | 2.24 H             | 127                  | 45.7             | 8.9                      |
| 4                                                    | #13430.00       | 44.3 AV                 | 68.2           | -23.9       | 2.24 H             | 127                  | 35.4             | 8.9                      |
| 5                                                    | 20145.00        | 54.1 PK                 | 74.0           | -19.9       | 1.52 H             | 107                  | 60.1             | -6.0                     |
| 6                                                    | 20145.00        | 44.2 AV                 | 54.0           | -9.8        | 1.52 H             | 107                  | 50.2             | -6.0                     |
| 7                                                    | #26860.00       | 45.3 PK                 | 88.2           | -42.9       | 2.07 H             | 150                  | 46.0             | -0.7                     |
| 8                                                    | #26860.00       | 35.4 AV                 | 68.2           | -32.8       | 2.07 H             | 150                  | 36.1             | -0.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6715.00        | 109.5 PK                |                |             | 2.07 V             | 45                   | 103.3            | 6.2                      |
| 2                                                    | *6715.00        | 101.0 AV                |                |             | 2.07 V             | 45                   | 94.8             | 6.2                      |
| 3                                                    | #13430.00       | 56.3 PK                 | 88.2           | -31.9       | 1.28 V             | 238                  | 47.4             | 8.9                      |
| 4                                                    | #13430.00       | 45.0 AV                 | 68.2           | -23.2       | 1.28 V             | 238                  | 36.1             | 8.9                      |
| 5                                                    | 20145.00        | 59.8 PK                 | 74.0           | -14.2       | 2.37 V             | 271                  | 65.8             | -6.0                     |
| 6                                                    | 20145.00        | 47.6 AV                 | 54.0           | -6.4        | 2.37 V             | 271                  | 53.6             | -6.0                     |
| 7                                                    | #26860.00       | 47.1 PK                 | 88.2           | -41.1       | 2.25 V             | 217                  | 47.8             | -0.7                     |
| 8                                                    | #26860.00       | 37.4 AV                 | 68.2           | -30.8       | 2.25 V             | 217                  | 38.1             | -0.7                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 181 : 6855 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6855.00        | 114.0 PK                |                |             | 2.15 H             | 79                   | 107.7            | 6.3                      |
| 2                                                    | *6855.00        | 105.5 AV                |                |             | 2.15 H             | 79                   | 99.2             | 6.3                      |
| 3                                                    | #13710.00       | 54.0 PK                 | 88.2           | -34.2       | 2.20 H             | 124                  | 45.0             | 9.0                      |
| 4                                                    | #13710.00       | 44.0 AV                 | 68.2           | -24.2       | 2.20 H             | 124                  | 35.0             | 9.0                      |
| 5                                                    | 20565.00        | 54.6 PK                 | 74.0           | -19.4       | 1.52 H             | 96                   | 59.8             | -5.2                     |
| 6                                                    | 20565.00        | 44.7 AV                 | 54.0           | -9.3        | 1.52 H             | 96                   | 49.9             | -5.2                     |
| 7                                                    | #27420.00       | 46.1 PK                 | 88.2           | -42.1       | 2.09 H             | 149                  | 47.4             | -1.3                     |
| 8                                                    | #27420.00       | 36.0 AV                 | 68.2           | -32.2       | 2.09 H             | 149                  | 37.3             | -1.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6855.00        | 110.0 PK                |                |             | 2.03 V             | 58                   | 103.7            | 6.3                      |
| 2                                                    | *6855.00        | 101.1 AV                |                |             | 2.03 V             | 58                   | 94.8             | 6.3                      |
| 3                                                    | #13710.00       | 57.0 PK                 | 88.2           | -31.2       | 1.21 V             | 243                  | 48.0             | 9.0                      |
| 4                                                    | #13710.00       | 45.3 AV                 | 68.2           | -22.9       | 1.21 V             | 243                  | 36.3             | 9.0                      |
| 5                                                    | 20565.00        | 59.3 PK                 | 74.0           | -14.7       | 2.38 V             | 271                  | 64.5             | -5.2                     |
| 6                                                    | 20565.00        | 47.7 AV                 | 54.0           | -6.3        | 2.38 V             | 271                  | 52.9             | -5.2                     |
| 7                                                    | #27420.00       | 46.9 PK                 | 88.2           | -41.3       | 2.17 V             | 217                  | 48.2             | -1.3                     |
| 8                                                    | #27420.00       | 36.9 AV                 | 68.2           | -31.3       | 2.17 V             | 217                  | 38.2             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 185 : 6875 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6875.00        | 114.8 PK                |                |             | 2.14 H             | 110                  | 108.5            | 6.3                      |
| 2                                                    | *6875.00        | 106.1 AV                |                |             | 2.14 H             | 110                  | 99.8             | 6.3                      |
| 3                                                    | #13750.00       | 53.7 PK                 | 88.2           | -34.5       | 2.17 H             | 128                  | 44.7             | 9.0                      |
| 4                                                    | #13750.00       | 43.8 AV                 | 68.2           | -24.4       | 2.17 H             | 128                  | 34.8             | 9.0                      |
| 5                                                    | 20625.00        | 54.9 PK                 | 74.0           | -19.1       | 1.55 H             | 106                  | 60.1             | -5.2                     |
| 6                                                    | 20625.00        | 44.6 AV                 | 54.0           | -9.4        | 1.55 H             | 106                  | 49.8             | -5.2                     |
| 7                                                    | #27500.00       | 46.1 PK                 | 88.2           | -42.1       | 2.08 H             | 169                  | 47.4             | -1.3                     |
| 8                                                    | #27500.00       | 35.9 AV                 | 68.2           | -32.3       | 2.08 H             | 169                  | 37.2             | -1.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6875.00        | 109.3 PK                |                |             | 2.08 V             | 57                   | 103.0            | 6.3                      |
| 2                                                    | *6875.00        | 100.4 AV                |                |             | 2.08 V             | 57                   | 94.1             | 6.3                      |
| 3                                                    | #13750.00       | 56.6 PK                 | 88.2           | -31.6       | 1.25 V             | 242                  | 47.6             | 9.0                      |
| 4                                                    | #13750.00       | 45.1 AV                 | 68.2           | -23.1       | 1.25 V             | 242                  | 36.1             | 9.0                      |
| 5                                                    | 20625.00        | 59.5 PK                 | 74.0           | -14.5       | 2.46 V             | 258                  | 64.7             | -5.2                     |
| 6                                                    | 20625.00        | 47.5 AV                 | 54.0           | -6.5        | 2.46 V             | 258                  | 52.7             | -5.2                     |
| 7                                                    | #27500.00       | 46.6 PK                 | 88.2           | -41.6       | 2.20 V             | 244                  | 47.9             | -1.3                     |
| 8                                                    | #27500.00       | 36.9 AV                 | 68.2           | -31.3       | 2.20 V             | 244                  | 38.2             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 213 : 7015 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7015.00        | 114.6 PK                |                |             | 2.15 H             | 83                   | 108.2            | 6.4                      |
| 2                                                    | *7015.00        | 106.1 AV                |                |             | 2.15 H             | 83                   | 99.7             | 6.4                      |
| 3                                                    | #14030.00       | 54.1 PK                 | 88.2           | -34.1       | 2.15 H             | 112                  | 45.2             | 8.9                      |
| 4                                                    | #14030.00       | 44.1 AV                 | 68.2           | -24.1       | 2.15 H             | 112                  | 35.2             | 8.9                      |
| 5                                                    | 21045.00        | 54.5 PK                 | 74.0           | -19.5       | 1.61 H             | 90                   | 59.3             | -4.8                     |
| 6                                                    | 21045.00        | 44.4 AV                 | 54.0           | -9.6        | 1.61 H             | 90                   | 49.2             | -4.8                     |
| 7                                                    | #28060.00       | 45.2 PK                 | 88.2           | -43.0       | 2.10 H             | 145                  | 47.1             | -1.9                     |
| 8                                                    | #28060.00       | 35.3 AV                 | 68.2           | -32.9       | 2.10 H             | 145                  | 37.2             | -1.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7015.00        | 109.9 PK                |                |             | 2.05 V             | 68                   | 103.5            | 6.4                      |
| 2                                                    | *7015.00        | 101.0 AV                |                |             | 2.05 V             | 68                   | 94.6             | 6.4                      |
| 3                                                    | #14030.00       | 56.6 PK                 | 88.2           | -31.6       | 1.23 V             | 253                  | 47.7             | 8.9                      |
| 4                                                    | #14030.00       | 45.1 AV                 | 68.2           | -23.1       | 1.23 V             | 253                  | 36.2             | 8.9                      |
| 5                                                    | 21045.00        | 59.7 PK                 | 74.0           | -14.3       | 2.38 V             | 260                  | 64.5             | -4.8                     |
| 6                                                    | 21045.00        | 47.8 AV                 | 54.0           | -6.2        | 2.38 V             | 260                  | 52.6             | -4.8                     |
| 7                                                    | #28060.00       | 47.5 PK                 | 88.2           | -40.7       | 2.23 V             | 245                  | 49.4             | -1.9                     |
| 8                                                    | #28060.00       | 37.4 AV                 | 68.2           | -30.8       | 2.23 V             | 245                  | 39.3             | -1.9                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 233 : 7115 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7115.00        | 98.4 PK                 |                |             | 1.17 H             | 44                   | 91.9             | 6.5                      |
| 2                                                    | *7115.00        | 91.0 AV                 |                |             | 1.17 H             | 44                   | 84.5             | 6.5                      |
| 3                                                    | #7125.00        | 75.9 PK                 | 88.2           | -12.3       | 1.17 H             | 44                   | 69.4             | 6.5                      |
| 4                                                    | #7125.00        | 59.5 AV                 | 68.2           | -8.7        | 1.17 H             | 44                   | 53.0             | 6.5                      |
| 5                                                    | #14230.00       | 55.0 PK                 | 88.2           | -33.2       | 2.21 H             | 137                  | 46.0             | 9.0                      |
| 6                                                    | #14230.00       | 44.5 AV                 | 68.2           | -23.7       | 2.21 H             | 137                  | 35.5             | 9.0                      |
| 7                                                    | 21345.00        | 54.4 PK                 | 74.0           | -19.6       | 1.55 H             | 109                  | 58.9             | -4.5                     |
| 8                                                    | 21345.00        | 44.4 AV                 | 54.0           | -9.6        | 1.55 H             | 109                  | 48.9             | -4.5                     |
| 9                                                    | #28460.00       | 45.2 PK                 | 88.2           | -43.0       | 2.02 H             | 145                  | 47.1             | -1.9                     |
| 10                                                   | #28460.00       | 35.4 AV                 | 68.2           | -32.8       | 2.02 H             | 145                  | 37.3             | -1.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7115.00        | 106.0 PK                |                |             | 3.23 V             | 80                   | 99.5             | 6.5                      |
| 2                                                    | *7115.00        | 98.5 AV                 |                |             | 3.23 V             | 80                   | 92.0             | 6.5                      |
| 3                                                    | #7125.00        | 85.1 PK                 | 88.2           | -3.1        | 3.23 V             | 80                   | 78.6             | 6.5                      |
| 4                                                    | #7125.00        | 67.8 AV                 | 68.2           | -0.4        | 3.23 V             | 80                   | 61.3             | 6.5                      |
| 5                                                    | #14230.00       | 57.0 PK                 | 88.2           | -31.2       | 1.28 V             | 253                  | 48.0             | 9.0                      |
| 6                                                    | #14230.00       | 45.7 AV                 | 68.2           | -22.5       | 1.28 V             | 253                  | 36.7             | 9.0                      |
| 7                                                    | 21345.00        | 59.5 PK                 | 74.0           | -14.5       | 2.41 V             | 261                  | 64.0             | -4.5                     |
| 8                                                    | 21345.00        | 47.4 AV                 | 54.0           | -6.6        | 2.41 V             | 261                  | 51.9             | -4.5                     |
| 9                                                    | #28460.00       | 47.2 PK                 | 88.2           | -41.0       | 2.21 V             | 229                  | 49.1             | -1.9                     |
| 10                                                   | #28460.00       | 37.2 AV                 | 68.2           | -31.0       | 2.21 V             | 229                  | 39.1             | -1.9                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

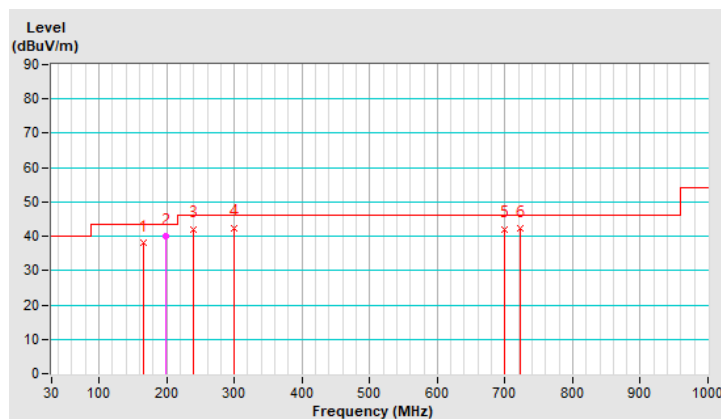
#### Below 1GHz Data:

|                             |               |                                          |                   |
|-----------------------------|---------------|------------------------------------------|-------------------|
| <b>RF Mode</b>              | TX 802.11a 6G | <b>Channel</b>                           | CH 181 : 6855 MHz |
| <b>Frequency Range</b>      | 9 kHz ~ 1 GHz | <b>Detector Function &amp; Bandwidth</b> | (QP) RB = 120kHz  |
| <b>Input Power (System)</b> | 120Vac, 60Hz  | <b>Environmental Conditions</b>          | 22 °C, 62 % RH    |
| <b>Tested By</b>            | Sampson Chen  |                                          |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 165.67          | 38.1 QP                 | 43.5           | -5.4        | 1.50 H             | 297                  | 50.0             | -11.9                    |
| 2                                                    | 198.89          | 39.9 QP                 | 43.5           | -3.6        | 1.00 H             | 67                   | 54.6             | -14.7                    |
| 3                                                    | 239.98          | 42.1 QP                 | 46.0           | -3.9        | 1.00 H             | 305                  | 55.0             | -12.9                    |
| 4                                                    | 298.96          | 42.5 QP                 | 46.0           | -3.5        | 1.50 H             | 294                  | 52.9             | -10.4                    |
| 5                                                    | 699.05          | 42.1 QP                 | 46.0           | -3.9        | 2.00 H             | 217                  | 42.4             | -0.3                     |
| 6                                                    | 722.05          | 42.3 QP                 | 46.0           | -3.7        | 1.00 H             | 256                  | 42.3             | 0.0                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



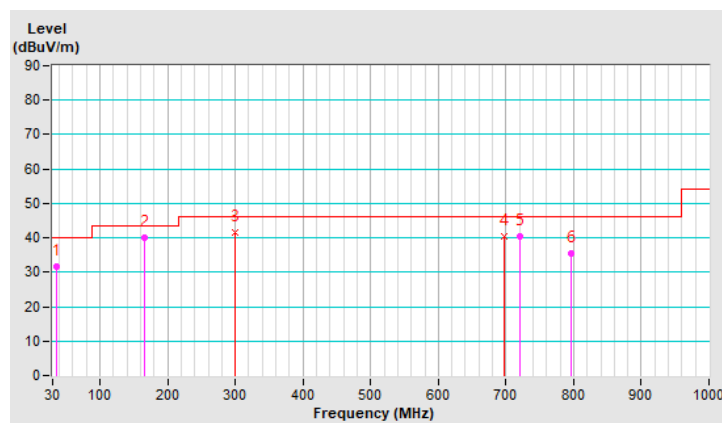


|                             |               |                                          |                   |
|-----------------------------|---------------|------------------------------------------|-------------------|
| <b>RF Mode</b>              | TX 802.11a 6G | <b>Channel</b>                           | CH 181 : 6855 MHz |
| <b>Frequency Range</b>      | 9 kHz ~ 1 GHz | <b>Detector Function &amp; Bandwidth</b> | (QP) RB = 120kHz  |
| <b>Input Power (System)</b> | 120Vac, 60Hz  | <b>Environmental Conditions</b>          | 22 °C, 62 % RH    |
| <b>Tested By</b>            | Sampson Chen  |                                          |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 34.97           | 31.6 QP                 | 40.0           | -8.4        | 1.00 V             | 198                  | 44.7             | -13.1                    |
| 2                                                  | 166.07          | 39.9 QP                 | 43.5           | -3.6        | 1.00 V             | 347                  | 51.8             | -11.9                    |
| 3                                                  | 299.03          | 41.5 QP                 | 46.0           | -4.5        | 3.00 V             | 356                  | 51.9             | -10.4                    |
| 4                                                  | 698.07          | 40.5 QP                 | 46.0           | -5.5        | 1.00 V             | 195                  | 40.8             | -0.3                     |
| 5                                                  | 720.05          | 40.5 QP                 | 46.0           | -5.5        | 1.50 V             | 280                  | 40.6             | -0.1                     |
| 6                                                  | 797.15          | 35.4 QP                 | 46.0           | -10.6       | 1.00 V             | 58                   | 34.0             | 1.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



#### 4.1.7 Test Results (Mode 2)

##### Above 1GHz Data:

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 1 : 5955 MHz                                             |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5925.00        | 49.4 PK                 | 88.2           | -38.8       | 1.58 H             | 14                   | 43.5             | 5.9                      |
| 2                                                    | #5925.00        | 38.4 AV                 | 68.2           | -29.8       | 1.58 H             | 14                   | 32.5             | 5.9                      |
| 3                                                    | *5955.00        | 97.2 PK                 |                |             | 1.58 H             | 14                   | 91.3             | 5.9                      |
| 4                                                    | *5955.00        | 90.0 AV                 |                |             | 1.58 H             | 14                   | 84.1             | 5.9                      |
| 5                                                    | 11910.00        | 54.9 PK                 | 74.0           | -19.1       | 2.35 H             | 137                  | 46.3             | 8.6                      |
| 6                                                    | 11910.00        | 44.5 AV                 | 54.0           | -9.5        | 2.35 H             | 137                  | 35.9             | 8.6                      |
| 7                                                    | 17865.00        | 54.9 PK                 | 74.0           | -19.1       | 1.49 H             | 85                   | 62.3             | -7.4                     |
| 8                                                    | 17865.00        | 44.8 AV                 | 54.0           | -9.2        | 1.49 H             | 85                   | 52.2             | -7.4                     |
| 9                                                    | 23820.00        | 46.2 PK                 | 74.0           | -27.8       | 2.12 H             | 139                  | 48.9             | -2.7                     |
| 10                                                   | 23820.00        | 36.4 AV                 | 54.0           | -17.6       | 2.12 H             | 139                  | 39.1             | -2.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | #5925.00        | 49.7 PK                 | 88.2           | -38.5       | 1.08 V             | 259                  | 43.8             | 5.9                      |
| 2                                                    | #5925.00        | 37.9 AV                 | 68.2           | -30.3       | 1.08 V             | 259                  | 32.0             | 5.9                      |
| 3                                                    | *5955.00        | 98.2 PK                 |                |             | 1.08 V             | 259                  | 92.3             | 5.9                      |
| 4                                                    | *5955.00        | 90.2 AV                 |                |             | 1.08 V             | 259                  | 84.3             | 5.9                      |
| 5                                                    | 11910.00        | 56.6 PK                 | 74.0           | -17.4       | 1.26 V             | 252                  | 48.0             | 8.6                      |
| 6                                                    | 11910.00        | 45.4 AV                 | 54.0           | -8.6        | 1.26 V             | 252                  | 36.8             | 8.6                      |
| 7                                                    | 17865.00        | 59.5 PK                 | 74.0           | -14.5       | 2.37 V             | 275                  | 66.9             | -7.4                     |
| 8                                                    | 17865.00        | 48.2 AV                 | 54.0           | -5.8        | 2.37 V             | 275                  | 55.6             | -7.4                     |
| 9                                                    | 23820.00        | 46.0 PK                 | 74.0           | -28.0       | 2.26 V             | 225                  | 48.7             | -2.7                     |
| 10                                                   | 23820.00        | 36.3 AV                 | 54.0           | -17.7       | 2.26 V             | 225                  | 39.0             | -2.7                     |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 45 : 6175 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6175.00        | 97.4 PK                 |                |             | 1.57 H             | 0                    | 91.3             | 6.1                      |
| 2                                                    | *6175.00        | 90.0 AV                 |                |             | 1.57 H             | 0                    | 83.9             | 6.1                      |
| 3                                                    | 12350.00        | 55.4 PK                 | 74.0           | -18.6       | 2.33 H             | 129                  | 46.6             | 8.8                      |
| 4                                                    | 12350.00        | 44.8 AV                 | 54.0           | -9.2        | 2.33 H             | 129                  | 36.0             | 8.8                      |
| 5                                                    | 18525.00        | 54.7 PK                 | 74.0           | -19.3       | 1.49 H             | 93                   | 61.9             | -7.2                     |
| 6                                                    | 18525.00        | 44.4 AV                 | 54.0           | -9.6        | 1.49 H             | 93                   | 51.6             | -7.2                     |
| 7                                                    | #24700.00       | 46.3 PK                 | 88.2           | -41.9       | 2.04 H             | 132                  | 47.9             | -1.6                     |
| 8                                                    | #24700.00       | 37.0 AV                 | 68.2           | -31.2       | 2.04 H             | 132                  | 38.6             | -1.6                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6175.00        | 98.1 PK                 |                |             | 1.06 V             | 269                  | 92.0             | 6.1                      |
| 2                                                    | *6175.00        | 89.9 AV                 |                |             | 1.06 V             | 269                  | 83.8             | 6.1                      |
| 3                                                    | 12350.00        | 56.1 PK                 | 74.0           | -17.9       | 1.20 V             | 243                  | 47.3             | 8.8                      |
| 4                                                    | 12350.00        | 45.0 AV                 | 54.0           | -9.0        | 1.20 V             | 243                  | 36.2             | 8.8                      |
| 5                                                    | 18525.00        | 59.4 PK                 | 74.0           | -14.6       | 2.41 V             | 263                  | 66.6             | -7.2                     |
| 6                                                    | 18525.00        | 47.8 AV                 | 54.0           | -6.2        | 2.41 V             | 263                  | 55.0             | -7.2                     |
| 7                                                    | #24700.00       | 46.4 PK                 | 88.2           | -41.8       | 2.26 V             | 235                  | 48.0             | -1.6                     |
| 8                                                    | #24700.00       | 36.6 AV                 | 68.2           | -31.6       | 2.26 V             | 235                  | 38.2             | -1.6                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 93 : 6415 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6415.00        | 97.2 PK                 |                |             | 1.63 H             | 3                    | 91.1             | 6.1                      |
| 2                                                    | *6415.00        | 89.9 AV                 |                |             | 1.63 H             | 3                    | 83.8             | 6.1                      |
| 3                                                    | #12830.00       | 55.3 PK                 | 88.2           | -32.9       | 2.23 H             | 133                  | 46.5             | 8.8                      |
| 4                                                    | #12830.00       | 44.5 AV                 | 68.2           | -23.7       | 2.23 H             | 133                  | 35.7             | 8.8                      |
| 5                                                    | 19245.00        | 54.0 PK                 | 74.0           | -20.0       | 1.46 H             | 105                  | 60.9             | -6.9                     |
| 6                                                    | 19245.00        | 44.0 AV                 | 54.0           | -10.0       | 1.46 H             | 105                  | 50.9             | -6.9                     |
| 7                                                    | #25660.00       | 46.1 PK                 | 88.2           | -42.1       | 2.02 H             | 140                  | 46.5             | -0.4                     |
| 8                                                    | #25660.00       | 36.4 AV                 | 68.2           | -31.8       | 2.02 H             | 140                  | 36.8             | -0.4                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6415.00        | 97.9 PK                 |                |             | 1.05 V             | 249                  | 91.8             | 6.1                      |
| 2                                                    | *6415.00        | 89.8 AV                 |                |             | 1.05 V             | 249                  | 83.7             | 6.1                      |
| 3                                                    | #12830.00       | 56.9 PK                 | 88.2           | -31.3       | 1.20 V             | 267                  | 48.1             | 8.8                      |
| 4                                                    | #12830.00       | 45.8 AV                 | 68.2           | -22.4       | 1.20 V             | 267                  | 37.0             | 8.8                      |
| 5                                                    | 19245.00        | 59.7 PK                 | 74.0           | -14.3       | 2.32 V             | 282                  | 66.6             | -6.9                     |
| 6                                                    | 19245.00        | 48.1 AV                 | 54.0           | -5.9        | 2.32 V             | 282                  | 55.0             | -6.9                     |
| 7                                                    | #25660.00       | 46.7 PK                 | 88.2           | -41.5       | 2.24 V             | 216                  | 47.1             | -0.4                     |
| 8                                                    | #25660.00       | 36.7 AV                 | 68.2           | -31.5       | 2.24 V             | 216                  | 37.1             | -0.4                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 97 : 6435 MHz                                            |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6435.00        | 97.6 PK                 |                |             | 1.63 H             | 2                    | 91.4             | 6.2                      |
| 2                                                    | *6435.00        | 89.9 AV                 |                |             | 1.63 H             | 2                    | 83.7             | 6.2                      |
| 3                                                    | #12870.00       | 54.9 PK                 | 88.2           | -33.3       | 2.32 H             | 132                  | 46.1             | 8.8                      |
| 4                                                    | #12870.00       | 44.3 AV                 | 68.2           | -23.9       | 2.32 H             | 132                  | 35.5             | 8.8                      |
| 5                                                    | 19305.00        | 54.7 PK                 | 74.0           | -19.3       | 1.47 H             | 95                   | 61.9             | -7.2                     |
| 6                                                    | 19305.00        | 44.6 AV                 | 54.0           | -9.4        | 1.47 H             | 95                   | 51.8             | -7.2                     |
| 7                                                    | #25740.00       | 46.4 PK                 | 88.2           | -41.8       | 2.10 H             | 144                  | 46.7             | -0.3                     |
| 8                                                    | #25740.00       | 36.8 AV                 | 68.2           | -31.4       | 2.10 H             | 144                  | 37.1             | -0.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6435.00        | 98.5 PK                 |                |             | 1.05 V             | 263                  | 92.3             | 6.2                      |
| 2                                                    | *6435.00        | 90.3 AV                 |                |             | 1.05 V             | 263                  | 84.1             | 6.2                      |
| 3                                                    | #12870.00       | 56.7 PK                 | 88.2           | -31.5       | 1.29 V             | 239                  | 47.9             | 8.8                      |
| 4                                                    | #12870.00       | 45.3 AV                 | 68.2           | -22.9       | 1.29 V             | 239                  | 36.5             | 8.8                      |
| 5                                                    | 19305.00        | 60.0 PK                 | 74.0           | -14.0       | 2.37 V             | 264                  | 67.2             | -7.2                     |
| 6                                                    | 19305.00        | 48.6 AV                 | 54.0           | -5.4        | 2.37 V             | 264                  | 55.8             | -7.2                     |
| 7                                                    | #25740.00       | 46.3 PK                 | 88.2           | -41.9       | 2.24 V             | 237                  | 46.6             | -0.3                     |
| 8                                                    | #25740.00       | 36.4 AV                 | 68.2           | -31.8       | 2.24 V             | 237                  | 36.7             | -0.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 105 : 6475 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6475.00        | 97.8 PK                 |                |             | 1.57 H             | 11                   | 91.6             | 6.2                      |
| 2                                                    | *6475.00        | 90.1 AV                 |                |             | 1.57 H             | 11                   | 83.9             | 6.2                      |
| 3                                                    | #12950.00       | 55.6 PK                 | 88.2           | -32.6       | 2.29 H             | 116                  | 46.8             | 8.8                      |
| 4                                                    | #12950.00       | 45.1 AV                 | 68.2           | -23.1       | 2.29 H             | 116                  | 36.3             | 8.8                      |
| 5                                                    | 19425.00        | 54.5 PK                 | 74.0           | -19.5       | 1.54 H             | 106                  | 61.4             | -6.9                     |
| 6                                                    | 19425.00        | 44.3 AV                 | 54.0           | -9.7        | 1.54 H             | 106                  | 51.2             | -6.9                     |
| 7                                                    | #25900.00       | 46.7 PK                 | 88.2           | -41.5       | 2.11 H             | 131                  | 46.9             | -0.2                     |
| 8                                                    | #25900.00       | 37.1 AV                 | 68.2           | -31.1       | 2.11 H             | 131                  | 37.3             | -0.2                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6475.00        | 98.0 PK                 |                |             | 1.08 V             | 270                  | 91.8             | 6.2                      |
| 2                                                    | *6475.00        | 90.2 AV                 |                |             | 1.08 V             | 270                  | 84.0             | 6.2                      |
| 3                                                    | #12950.00       | 56.8 PK                 | 88.2           | -31.4       | 1.24 V             | 260                  | 48.0             | 8.8                      |
| 4                                                    | #12950.00       | 45.8 AV                 | 68.2           | -22.4       | 1.24 V             | 260                  | 37.0             | 8.8                      |
| 5                                                    | 19425.00        | 59.5 PK                 | 74.0           | -14.5       | 2.36 V             | 290                  | 66.4             | -6.9                     |
| 6                                                    | 19425.00        | 48.2 AV                 | 54.0           | -5.8        | 2.36 V             | 290                  | 55.1             | -6.9                     |
| 7                                                    | #25900.00       | 45.7 PK                 | 88.2           | -42.5       | 2.21 V             | 211                  | 45.9             | -0.2                     |
| 8                                                    | #25900.00       | 35.9 AV                 | 68.2           | -32.3       | 2.21 V             | 211                  | 36.1             | -0.2                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 113 : 6515 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 97.8 PK                 |                |             | 1.59 H             | 21                   | 91.6             | 6.2                      |
| 2                                                    | *6515.00        | 90.4 AV                 |                |             | 1.59 H             | 21                   | 84.2             | 6.2                      |
| 3                                                    | #13030.00       | 55.2 PK                 | 88.2           | -33.0       | 2.32 H             | 116                  | 46.4             | 8.8                      |
| 4                                                    | #13030.00       | 44.8 AV                 | 68.2           | -23.4       | 2.32 H             | 116                  | 36.0             | 8.8                      |
| 5                                                    | 19545.00        | 54.4 PK                 | 74.0           | -19.6       | 1.48 H             | 113                  | 61.0             | -6.6                     |
| 6                                                    | 19545.00        | 44.4 AV                 | 54.0           | -9.6        | 1.48 H             | 113                  | 51.0             | -6.6                     |
| 7                                                    | #26060.00       | 46.3 PK                 | 88.2           | -41.9       | 2.05 H             | 132                  | 46.4             | -0.1                     |
| 8                                                    | #26060.00       | 36.5 AV                 | 68.2           | -31.7       | 2.05 H             | 132                  | 36.6             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 98.1 PK                 |                |             | 1.05 V             | 273                  | 91.9             | 6.2                      |
| 2                                                    | *6515.00        | 90.3 AV                 |                |             | 1.05 V             | 273                  | 84.1             | 6.2                      |
| 3                                                    | #13030.00       | 56.1 PK                 | 88.2           | -32.1       | 1.20 V             | 259                  | 47.3             | 8.8                      |
| 4                                                    | #13030.00       | 45.0 AV                 | 68.2           | -23.2       | 1.20 V             | 259                  | 36.2             | 8.8                      |
| 5                                                    | 19545.00        | 60.1 PK                 | 74.0           | -13.9       | 2.31 V             | 278                  | 66.7             | -6.6                     |
| <b>6</b>                                             | <b>19545.00</b> | <b>48.6 AV</b>          | <b>54.0</b>    | <b>-5.4</b> | <b>2.31 V</b>      | <b>278</b>           | <b>55.2</b>      | <b>-6.6</b>              |
| 7                                                    | #26060.00       | 46.6 PK                 | 88.2           | -41.6       | 2.30 V             | 230                  | 46.7             | -0.1                     |
| 8                                                    | #26060.00       | 36.6 AV                 | 68.2           | -31.6       | 2.30 V             | 230                  | 36.7             | -0.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 117 : 6535 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6535.00        | 97.0 PK                 |                |             | 1.57 H             | 27                   | 90.8             | 6.2                      |
| 2                                                    | *6535.00        | 89.5 AV                 |                |             | 1.57 H             | 27                   | 83.3             | 6.2                      |
| 3                                                    | #13070.00       | 55.6 PK                 | 88.2           | -32.6       | 2.24 H             | 122                  | 46.8             | 8.8                      |
| 4                                                    | #13070.00       | 44.9 AV                 | 68.2           | -23.3       | 2.24 H             | 122                  | 36.1             | 8.8                      |
| 5                                                    | 19605.00        | 54.3 PK                 | 74.0           | -19.7       | 1.49 H             | 95                   | 60.8             | -6.5                     |
| 6                                                    | 19605.00        | 44.1 AV                 | 54.0           | -9.9        | 1.49 H             | 95                   | 50.6             | -6.5                     |
| 7                                                    | #26140.00       | 46.4 PK                 | 88.2           | -41.8       | 2.04 H             | 135                  | 46.4             | 0.0                      |
| 8                                                    | #26140.00       | 36.6 AV                 | 68.2           | -31.6       | 2.04 H             | 135                  | 36.6             | 0.0                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6535.00        | 98.2 PK                 |                |             | 1.03 V             | 270                  | 92.0             | 6.2                      |
| 2                                                    | *6535.00        | 90.1 AV                 |                |             | 1.03 V             | 270                  | 83.9             | 6.2                      |
| 3                                                    | #13070.00       | 56.3 PK                 | 88.2           | -31.9       | 1.25 V             | 255                  | 47.5             | 8.8                      |
| 4                                                    | #13070.00       | 45.1 AV                 | 68.2           | -23.1       | 1.25 V             | 255                  | 36.3             | 8.8                      |
| 5                                                    | 19605.00        | 59.7 PK                 | 74.0           | -14.3       | 2.37 V             | 275                  | 66.2             | -6.5                     |
| 6                                                    | 19605.00        | 48.4 AV                 | 54.0           | -5.6        | 2.37 V             | 275                  | 54.9             | -6.5                     |
| 7                                                    | #26140.00       | 46.5 PK                 | 88.2           | -41.7       | 2.24 V             | 223                  | 46.5             | 0.0                      |
| 8                                                    | #26140.00       | 36.7 AV                 | 68.2           | -31.5       | 2.24 V             | 223                  | 36.7             | 0.0                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.



|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 153 : 6715 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6715.00        | 96.7 PK                 |                |             | 1.54 H             | 25                   | 90.5             | 6.2                      |
| 2                                                    | *6715.00        | 89.5 AV                 |                |             | 1.54 H             | 25                   | 83.3             | 6.2                      |
| 3                                                    | #13430.00       | 55.2 PK                 | 88.2           | -33.0       | 2.33 H             | 119                  | 46.3             | 8.9                      |
| 4                                                    | #13430.00       | 44.5 AV                 | 68.2           | -23.7       | 2.33 H             | 119                  | 35.6             | 8.9                      |
| 5                                                    | 20145.00        | 55.0 PK                 | 74.0           | -19.0       | 1.53 H             | 93                   | 61.0             | -6.0                     |
| 6                                                    | 20145.00        | 44.7 AV                 | 54.0           | -9.3        | 1.53 H             | 93                   | 50.7             | -6.0                     |
| 7                                                    | #26860.00       | 46.9 PK                 | 88.2           | -41.3       | 2.12 H             | 145                  | 47.6             | -0.7                     |
| 8                                                    | #26860.00       | 37.0 AV                 | 68.2           | -31.2       | 2.12 H             | 145                  | 37.7             | -0.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6715.00        | 98.5 PK                 |                |             | 1.12 V             | 262                  | 92.3             | 6.2                      |
| 2                                                    | *6715.00        | 90.4 AV                 |                |             | 1.12 V             | 262                  | 84.2             | 6.2                      |
| 3                                                    | #13430.00       | 56.3 PK                 | 88.2           | -31.9       | 1.27 V             | 247                  | 47.4             | 8.9                      |
| 4                                                    | #13430.00       | 45.0 AV                 | 68.2           | -23.2       | 1.27 V             | 247                  | 36.1             | 8.9                      |
| 5                                                    | 20145.00        | 59.4 PK                 | 74.0           | -14.6       | 2.32 V             | 275                  | 65.4             | -6.0                     |
| 6                                                    | 20145.00        | 48.3 AV                 | 54.0           | -5.7        | 2.32 V             | 275                  | 54.3             | -6.0                     |
| 7                                                    | #26860.00       | 45.9 PK                 | 88.2           | -42.3       | 2.24 V             | 209                  | 46.6             | -0.7                     |
| 8                                                    | #26860.00       | 36.0 AV                 | 68.2           | -32.2       | 2.24 V             | 209                  | 36.7             | -0.7                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 181 : 6855 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6855.00        | 97.8 PK                 |                |             | 1.63 H             | 5                    | 91.5             | 6.3                      |
| 2                                                    | *6855.00        | 90.2 AV                 |                |             | 1.63 H             | 5                    | 83.9             | 6.3                      |
| 3                                                    | #13710.00       | 54.9 PK                 | 88.2           | -33.3       | 2.27 H             | 133                  | 45.9             | 9.0                      |
| 4                                                    | #13710.00       | 44.4 AV                 | 68.2           | -23.8       | 2.27 H             | 133                  | 35.4             | 9.0                      |
| 5                                                    | 20565.00        | 54.8 PK                 | 74.0           | -19.2       | 1.44 H             | 89                   | 60.0             | -5.2                     |
| 6                                                    | 20565.00        | 44.6 AV                 | 54.0           | -9.4        | 1.44 H             | 89                   | 49.8             | -5.2                     |
| 7                                                    | #27420.00       | 46.0 PK                 | 88.2           | -42.2       | 2.01 H             | 130                  | 47.3             | -1.3                     |
| 8                                                    | #27420.00       | 36.6 AV                 | 68.2           | -31.6       | 2.01 H             | 130                  | 37.9             | -1.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6855.00        | 98.3 PK                 |                |             | 1.11 V             | 259                  | 92.0             | 6.3                      |
| 2                                                    | *6855.00        | 90.3 AV                 |                |             | 1.11 V             | 259                  | 84.0             | 6.3                      |
| 3                                                    | #13710.00       | 56.4 PK                 | 88.2           | -31.8       | 1.22 V             | 257                  | 47.4             | 9.0                      |
| 4                                                    | #13710.00       | 45.2 AV                 | 68.2           | -23.0       | 1.22 V             | 257                  | 36.2             | 9.0                      |
| 5                                                    | 20565.00        | 59.0 PK                 | 74.0           | -15.0       | 2.43 V             | 277                  | 64.2             | -5.2                     |
| 6                                                    | 20565.00        | 47.9 AV                 | 54.0           | -6.1        | 2.43 V             | 277                  | 53.1             | -5.2                     |
| 7                                                    | #27420.00       | 45.9 PK                 | 88.2           | -42.3       | 2.24 V             | 216                  | 47.2             | -1.3                     |
| 8                                                    | #27420.00       | 36.0 AV                 | 68.2           | -32.2       | 2.24 V             | 216                  | 37.3             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 185 : 6875 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6875.00        | 97.6 PK                 |                |             | 1.56 H             | 18                   | 91.3             | 6.3                      |
| 2                                                    | *6875.00        | 90.1 AV                 |                |             | 1.56 H             | 18                   | 83.8             | 6.3                      |
| 3                                                    | #13750.00       | 55.6 PK                 | 88.2           | -32.6       | 2.30 H             | 113                  | 46.6             | 9.0                      |
| 4                                                    | #13750.00       | 45.1 AV                 | 68.2           | -23.1       | 2.30 H             | 113                  | 36.1             | 9.0                      |
| 5                                                    | 20625.00        | 55.0 PK                 | 74.0           | -19.0       | 1.46 H             | 90                   | 60.2             | -5.2                     |
| 6                                                    | 20625.00        | 44.5 AV                 | 54.0           | -9.5        | 1.46 H             | 90                   | 49.7             | -5.2                     |
| 7                                                    | #27500.00       | 46.7 PK                 | 88.2           | -41.5       | 2.08 H             | 142                  | 48.0             | -1.3                     |
| 8                                                    | #27500.00       | 37.2 AV                 | 68.2           | -31.0       | 2.08 H             | 142                  | 38.5             | -1.3                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6875.00        | 97.8 PK                 |                |             | 1.13 V             | 243                  | 91.5             | 6.3                      |
| 2                                                    | *6875.00        | 89.9 AV                 |                |             | 1.13 V             | 243                  | 83.6             | 6.3                      |
| 3                                                    | #13750.00       | 56.4 PK                 | 88.2           | -31.8       | 1.27 V             | 238                  | 47.4             | 9.0                      |
| 4                                                    | #13750.00       | 45.2 AV                 | 68.2           | -23.0       | 1.27 V             | 238                  | 36.2             | 9.0                      |
| 5                                                    | 20625.00        | 59.8 PK                 | 74.0           | -14.2       | 2.31 V             | 287                  | 65.0             | -5.2                     |
| 6                                                    | 20625.00        | 48.5 AV                 | 54.0           | -5.5        | 2.31 V             | 287                  | 53.7             | -5.2                     |
| 7                                                    | #27500.00       | 46.4 PK                 | 88.2           | -41.8       | 2.30 V             | 233                  | 47.7             | -1.3                     |
| 8                                                    | #27500.00       | 36.7 AV                 | 68.2           | -31.5       | 2.30 V             | 233                  | 38.0             | -1.3                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 213 : 7015 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7015.00        | 97.9 PK                 |                |             | 1.56 H             | 26                   | 91.5             | 6.4                      |
| 2                                                    | *7015.00        | 90.2 AV                 |                |             | 1.56 H             | 26                   | 83.8             | 6.4                      |
| 3                                                    | #14030.00       | 55.1 PK                 | 88.2           | -33.1       | 2.25 H             | 125                  | 46.2             | 8.9                      |
| 4                                                    | #14030.00       | 44.4 AV                 | 68.2           | -23.8       | 2.25 H             | 125                  | 35.5             | 8.9                      |
| 5                                                    | 21045.00        | 54.6 PK                 | 74.0           | -19.4       | 1.53 H             | 110                  | 59.4             | -4.8                     |
| 6                                                    | 21045.00        | 44.4 AV                 | 54.0           | -9.6        | 1.53 H             | 110                  | 49.2             | -4.8                     |
| 7                                                    | #28060.00       | 46.5 PK                 | 88.2           | -41.7       | 2.03 H             | 136                  | 48.4             | -1.9                     |
| 8                                                    | #28060.00       | 37.2 AV                 | 68.2           | -31.0       | 2.03 H             | 136                  | 39.1             | -1.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7015.00        | 98.3 PK                 |                |             | 1.07 V             | 267                  | 91.9             | 6.4                      |
| 2                                                    | *7015.00        | 90.2 AV                 |                |             | 1.07 V             | 267                  | 83.8             | 6.4                      |
| 3                                                    | #14030.00       | 56.8 PK                 | 88.2           | -31.4       | 1.27 V             | 255                  | 47.9             | 8.9                      |
| 4                                                    | #14030.00       | 45.8 AV                 | 68.2           | -22.4       | 1.27 V             | 255                  | 36.9             | 8.9                      |
| 5                                                    | 21045.00        | 59.4 PK                 | 74.0           | -14.6       | 2.41 V             | 264                  | 64.2             | -4.8                     |
| 6                                                    | 21045.00        | 47.9 AV                 | 54.0           | -6.1        | 2.41 V             | 264                  | 52.7             | -4.8                     |
| 7                                                    | #28060.00       | 46.1 PK                 | 88.2           | -42.1       | 2.27 V             | 221                  | 48.0             | -1.9                     |
| 8                                                    | #28060.00       | 36.2 AV                 | 68.2           | -32.0       | 2.27 V             | 221                  | 38.1             | -1.9                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                |                                          |                                                             |
|-----------------------------|----------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G  | <b>Channel</b>                           | CH 233 : 7115 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 200 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz   | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang       |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7115.00        | 97.4 PK                 |                |             | 1.63 H             | 15                   | 90.9             | 6.5                      |
| 2                                                    | *7115.00        | 89.9 AV                 |                |             | 1.63 H             | 15                   | 83.4             | 6.5                      |
| 3                                                    | #7125.00        | 48.8 PK                 | 88.2           | -39.4       | 1.63 H             | 15                   | 42.3             | 6.5                      |
| 4                                                    | #7125.00        | 38.0 AV                 | 68.2           | -30.2       | 1.63 H             | 15                   | 31.5             | 6.5                      |
| 5                                                    | #14230.00       | 54.9 PK                 | 88.2           | -33.3       | 2.24 H             | 132                  | 45.9             | 9.0                      |
| 6                                                    | #14230.00       | 44.3 AV                 | 68.2           | -23.9       | 2.24 H             | 132                  | 35.3             | 9.0                      |
| 7                                                    | 21345.00        | 55.2 PK                 | 74.0           | -18.8       | 1.50 H             | 86                   | 59.7             | -4.5                     |
| 8                                                    | 21345.00        | 44.8 AV                 | 54.0           | -9.2        | 1.50 H             | 86                   | 49.3             | -4.5                     |
| 9                                                    | #28460.00       | 46.1 PK                 | 88.2           | -42.1       | 2.05 H             | 134                  | 48.0             | -1.9                     |
| 10                                                   | #28460.00       | 36.5 AV                 | 68.2           | -31.7       | 2.05 H             | 134                  | 38.4             | -1.9                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *7115.00        | 98.3 PK                 |                |             | 1.08 V             | 246                  | 91.8             | 6.5                      |
| 2                                                    | *7115.00        | 90.3 AV                 |                |             | 1.08 V             | 246                  | 83.8             | 6.5                      |
| 3                                                    | #7125.00        | 49.1 PK                 | 88.2           | -39.1       | 1.08 V             | 246                  | 42.6             | 6.5                      |
| 4                                                    | #7125.00        | 37.4 AV                 | 68.2           | -30.8       | 1.08 V             | 246                  | 30.9             | 6.5                      |
| 5                                                    | #14230.00       | 56.7 PK                 | 88.2           | -31.5       | 1.24 V             | 260                  | 47.7             | 9.0                      |
| 6                                                    | #14230.00       | 45.8 AV                 | 68.2           | -22.4       | 1.24 V             | 260                  | 36.8             | 9.0                      |
| 7                                                    | 21345.00        | 59.8 PK                 | 74.0           | -14.2       | 2.37 V             | 277                  | 64.3             | -4.5                     |
| 8                                                    | 21345.00        | 48.5 AV                 | 54.0           | -5.5        | 2.37 V             | 277                  | 53.0             | -4.5                     |
| 9                                                    | #28460.00       | 46.5 PK                 | 88.2           | -41.7       | 2.27 V             | 216                  | 48.4             | -1.9                     |
| 10                                                   | #28460.00       | 36.6 AV                 | 68.2           | -31.6       | 2.27 V             | 216                  | 38.5             | -1.9                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

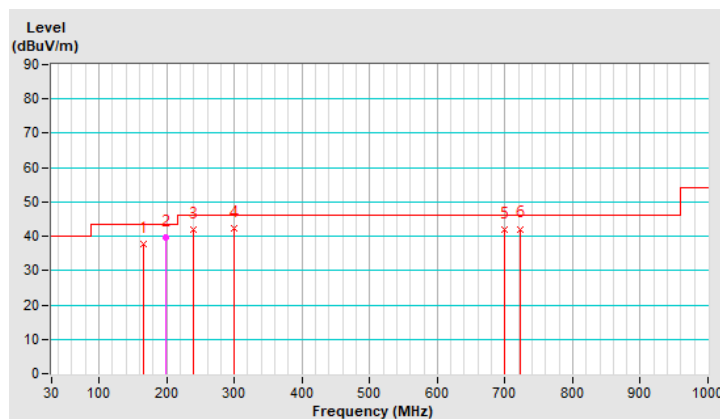
#### Below 1GHz Data:

|                             |               |                                          |                   |
|-----------------------------|---------------|------------------------------------------|-------------------|
| <b>RF Mode</b>              | TX 802.11a 6G | <b>Channel</b>                           | CH 181 : 6855 MHz |
| <b>Frequency Range</b>      | 9 kHz ~ 1 GHz | <b>Detector Function &amp; Bandwidth</b> | (QP) RB = 120kHz  |
| <b>Input Power (System)</b> | 120Vac, 60Hz  | <b>Environmental Conditions</b>          | 22 °C, 62 % RH    |
| <b>Tested By</b>            | Sampson Chen  |                                          |                   |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | 165.59          | 37.9 QP                 | 43.5           | -5.6        | 1.50 H             | 287                  | 49.8             | -11.9                    |
| 2                                                    | 198.85          | 39.7 QP                 | 43.5           | -3.8        | 1.00 H             | 51                   | 54.4             | -14.7                    |
| 3                                                    | 239.99          | 42.0 QP                 | 46.0           | -4.0        | 1.00 H             | 289                  | 54.9             | -12.9                    |
| 4                                                    | 298.93          | 42.3 QP                 | 46.0           | -3.7        | 1.50 H             | 303                  | 52.8             | -10.5                    |
| 5                                                    | 699.02          | 41.9 QP                 | 46.0           | -4.1        | 2.00 H             | 226                  | 42.2             | -0.3                     |
| 6                                                    | 722.03          | 42.1 QP                 | 46.0           | -3.9        | 1.00 H             | 242                  | 42.1             | 0.0                      |

#### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

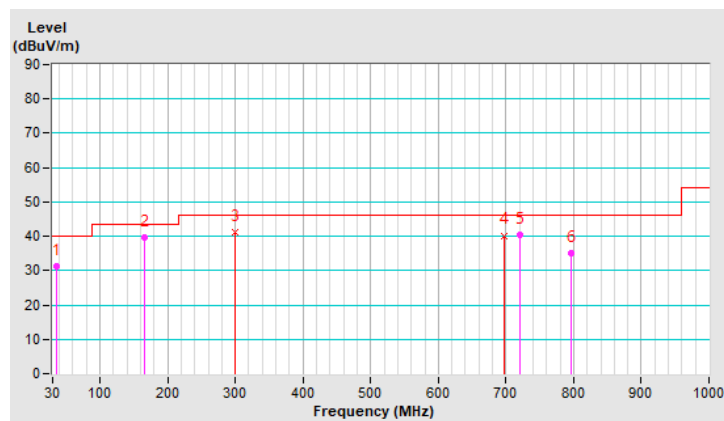


|                             |               |                                          |                   |
|-----------------------------|---------------|------------------------------------------|-------------------|
| <b>RF Mode</b>              | TX 802.11a 6G | <b>Channel</b>                           | CH 181 : 6855 MHz |
| <b>Frequency Range</b>      | 9 kHz ~ 1 GHz | <b>Detector Function &amp; Bandwidth</b> | (QP) RB = 120kHz  |
| <b>Input Power (System)</b> | 120Vac, 60Hz  | <b>Environmental Conditions</b>          | 22 °C, 62 % RH    |
| <b>Tested By</b>            | Sampson Chen  |                                          |                   |

| Antenna Polarity & Test Distance : Vertical at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|----------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                 | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                  | 34.92           | 31.4 QP                 | 40.0           | -8.6        | 1.00 V             | 183                  | 44.5             | -13.1                    |
| 2                                                  | 166.03          | 39.7 QP                 | 43.5           | -3.8        | 1.00 V             | 352                  | 51.6             | -11.9                    |
| 3                                                  | 299.01          | 41.3 QP                 | 46.0           | -4.7        | 3.00 V             | 339                  | 51.7             | -10.4                    |
| 4                                                  | 698.04          | 40.2 QP                 | 46.0           | -5.8        | 1.00 V             | 178                  | 40.5             | -0.3                     |
| 5                                                  | 720.03          | 40.3 QP                 | 46.0           | -5.7        | 1.50 V             | 259                  | 40.4             | -0.1                     |
| 6                                                  | 797.11          | 35.2 QP                 | 46.0           | -10.8       | 1.00 V             | 42                   | 33.8             | 1.4                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit of frequency range 30 MHz ~ 1 GHz.
5. The emission levels were very low against the limit of frequency range 9 kHz ~ 30 MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



#### 4.1.8 Test Results (Mode 3)

##### Above 1GHz Data:

|                             |                    |                                          |                                                             |
|-----------------------------|--------------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE20) | <b>Channel</b>                           | CH 113 : 6515 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 300 Hz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz     | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 115.8 PK                |                |             | 1.93 H             | 121                  | 109.6            | 6.2                      |
| 2                                                    | *6515.00        | 106.5 AV                |                |             | 1.93 H             | 121                  | 100.3            | 6.2                      |
| 3                                                    | #13030.00       | 54.1 PK                 | 88.2           | -34.1       | 2.20 H             | 111                  | 45.3             | 8.8                      |
| 4                                                    | #13030.00       | 44.1 AV                 | 68.2           | -24.1       | 2.20 H             | 111                  | 35.3             | 8.8                      |
| 5                                                    | 19545.00        | 54.8 PK                 | 74.0           | -19.2       | 1.59 H             | 106                  | 61.4             | -6.6                     |
| 6                                                    | 19545.00        | 44.6 AV                 | 54.0           | -9.4        | 1.59 H             | 106                  | 51.2             | -6.6                     |
| 7                                                    | #26060.00       | 46.1 PK                 | 88.2           | -42.1       | 2.07 H             | 168                  | 46.2             | -0.1                     |
| 8                                                    | #26060.00       | 35.8 AV                 | 68.2           | -32.4       | 2.07 H             | 168                  | 35.9             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 117.9 PK                |                |             | 2.34 V             | 109                  | 111.7            | 6.2                      |
| 2                                                    | *6515.00        | 109.4 AV                |                |             | 2.34 V             | 109                  | 103.2            | 6.2                      |
| 3                                                    | #13030.00       | 56.7 PK                 | 88.2           | -31.5       | 1.21 V             | 238                  | 47.9             | 8.8                      |
| 4                                                    | #13030.00       | 45.0 AV                 | 68.2           | -23.2       | 1.21 V             | 238                  | 36.2             | 8.8                      |
| 5                                                    | 19545.00        | 59.0 PK                 | 74.0           | -15.0       | 2.38 V             | 290                  | 65.6             | -6.6                     |
| 6                                                    | 19545.00        | 47.4 AV                 | 54.0           | -6.6        | 2.38 V             | 290                  | 54.0             | -6.6                     |
| 7                                                    | #26060.00       | 46.5 PK                 | 88.2           | -41.7       | 2.16 V             | 233                  | 46.6             | -0.1                     |
| 8                                                    | #26060.00       | 36.9 AV                 | 68.2           | -31.3       | 2.16 V             | 233                  | 37.0             | -0.1                     |

##### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.



|                             |                    |                                          |                                                             |
|-----------------------------|--------------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE40) | <b>Channel</b>                           | CH 115 : 6525 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 300 Hz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz     | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6525.00        | 115.2 PK                |                |             | 1.91 H             | 80                   | 109.0            | 6.2                      |
| 2                                                    | *6525.00        | 104.9 AV                |                |             | 1.91 H             | 80                   | 98.7             | 6.2                      |
| 3                                                    | #13050.00       | 54.2 PK                 | 88.2           | -34.0       | 2.14 H             | 135                  | 45.4             | 8.8                      |
| 4                                                    | #13050.00       | 44.1 AV                 | 68.2           | -24.1       | 2.14 H             | 135                  | 35.3             | 8.8                      |
| 5                                                    | 19575.00        | 54.9 PK                 | 74.0           | -19.1       | 1.55 H             | 89                   | 61.4             | -6.5                     |
| 6                                                    | 19575.00        | 44.7 AV                 | 54.0           | -9.3        | 1.55 H             | 89                   | 51.2             | -6.5                     |
| 7                                                    | #26100.00       | 45.2 PK                 | 88.2           | -43.0       | 2.12 H             | 153                  | 45.2             | 0.0                      |
| 8                                                    | #26100.00       | 35.5 AV                 | 68.2           | -32.7       | 2.12 H             | 153                  | 35.5             | 0.0                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6525.00        | 115.4 PK                |                |             | 1.88 V             | 85                   | 109.2            | 6.2                      |
| 2                                                    | *6525.00        | 105.1 AV                |                |             | 1.88 V             | 85                   | 98.9             | 6.2                      |
| 3                                                    | #13050.00       | 56.5 PK                 | 88.2           | -31.7       | 1.30 V             | 248                  | 47.7             | 8.8                      |
| 4                                                    | #13050.00       | 44.9 AV                 | 68.2           | -23.3       | 1.30 V             | 248                  | 36.1             | 8.8                      |
| 5                                                    | 19575.00        | 59.2 PK                 | 74.0           | -14.8       | 2.45 V             | 289                  | 65.7             | -6.5                     |
| 6                                                    | 19575.00        | 47.3 AV                 | 54.0           | -6.7        | 2.45 V             | 289                  | 53.8             | -6.5                     |
| 7                                                    | #26100.00       | 47.0 PK                 | 88.2           | -41.2       | 2.23 V             | 215                  | 47.0             | 0.0                      |
| 8                                                    | #26100.00       | 37.4 AV                 | 68.2           | -30.8       | 2.23 V             | 215                  | 37.4             | 0.0                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                    |                                          |                                                            |
|-----------------------------|--------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE80) | <b>Channel</b>                           | CH 119 : 6545 MHz                                          |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz     | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                             |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6545.00        | 109.9 PK                |                |             | 1.84 H             | 113                  | 103.7            | 6.2                      |
| 2                                                    | *6545.00        | 100.0 AV                |                |             | 1.84 H             | 113                  | 93.8             | 6.2                      |
| 3                                                    | #13090.00       | 54.2 PK                 | 88.2           | -34.0       | 2.23 H             | 109                  | 45.4             | 8.8                      |
| 4                                                    | #13090.00       | 44.0 AV                 | 68.2           | -24.2       | 2.23 H             | 109                  | 35.2             | 8.8                      |
| 5                                                    | 19635.00        | 54.5 PK                 | 74.0           | -19.5       | 1.55 H             | 98                   | 61.0             | -6.5                     |
| 6                                                    | 19635.00        | 44.4 AV                 | 54.0           | -9.6        | 1.55 H             | 98                   | 50.9             | -6.5                     |
| 7                                                    | #26180.00       | 46.5 PK                 | 88.2           | -41.7       | 2.09 H             | 150                  | 46.6             | -0.1                     |
| 8                                                    | #26180.00       | 36.3 AV                 | 68.2           | -31.9       | 2.09 H             | 150                  | 36.4             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6545.00        | 111.5 PK                |                |             | 2.43 V             | 94                   | 105.3            | 6.2                      |
| 2                                                    | *6545.00        | 102.1 AV                |                |             | 2.43 V             | 94                   | 95.9             | 6.2                      |
| 3                                                    | #13090.00       | 56.6 PK                 | 88.2           | -31.6       | 1.25 V             | 244                  | 47.8             | 8.8                      |
| 4                                                    | #13090.00       | 44.9 AV                 | 68.2           | -23.3       | 1.25 V             | 244                  | 36.1             | 8.8                      |
| 5                                                    | 19635.00        | 59.0 PK                 | 74.0           | -15.0       | 2.40 V             | 276                  | 65.5             | -6.5                     |
| 6                                                    | 19635.00        | 47.1 AV                 | 54.0           | -6.9        | 2.40 V             | 276                  | 53.6             | -6.5                     |
| 7                                                    | #26180.00       | 47.0 PK                 | 88.2           | -41.2       | 2.16 V             | 233                  | 47.1             | -0.1                     |
| 8                                                    | #26180.00       | 37.3 AV                 | 68.2           | -30.9       | 2.16 V             | 233                  | 37.4             | -0.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                     |                                          |                                                            |
|-----------------------------|---------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE160) | <b>Channel</b>                           | CH 79 : 6345 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz      | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz      | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                             |
| <b>Tested By</b>            | Tom Yang            |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6345.00        | 105.4 PK                |                |             | 2.00 H             | 117                  | 99.3             | 6.1                      |
| 2                                                    | *6345.00        | 97.4 AV                 |                |             | 2.00 H             | 117                  | 91.3             | 6.1                      |
| 3                                                    | 12690.00        | 55.0 PK                 | 74.0           | -19.0       | 2.26 H             | 119                  | 46.2             | 8.8                      |
| 4                                                    | 12690.00        | 44.6 AV                 | 54.0           | -9.4        | 2.26 H             | 119                  | 35.8             | 8.8                      |
| 5                                                    | 19035.00        | 54.3 PK                 | 74.0           | -19.7       | 1.52 H             | 90                   | 61.3             | -7.0                     |
| 6                                                    | 19035.00        | 44.4 AV                 | 54.0           | -9.6        | 1.52 H             | 90                   | 51.4             | -7.0                     |
| 7                                                    | #25380.00       | 46.0 PK                 | 88.2           | -42.2       | 2.02 H             | 158                  | 46.7             | -0.7                     |
| 8                                                    | #25380.00       | 36.2 AV                 | 68.2           | -32.0       | 2.02 H             | 158                  | 36.9             | -0.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6345.00        | 111.4 PK                |                |             | 2.25 V             | 132                  | 105.3            | 6.1                      |
| 2                                                    | *6345.00        | 102.4 AV                |                |             | 2.25 V             | 132                  | 96.3             | 6.1                      |
| 3                                                    | 12690.00        | 56.5 PK                 | 74.0           | -17.5       | 1.29 V             | 249                  | 47.7             | 8.8                      |
| 4                                                    | 12690.00        | 45.1 AV                 | 54.0           | -8.9        | 1.29 V             | 249                  | 36.3             | 8.8                      |
| 5                                                    | 19035.00        | 59.9 PK                 | 74.0           | -14.1       | 2.45 V             | 280                  | 66.9             | -7.0                     |
| 6                                                    | 19035.00        | 47.8 AV                 | 54.0           | -6.2        | 2.45 V             | 280                  | 54.8             | -7.0                     |
| 7                                                    | #25380.00       | 47.2 PK                 | 88.2           | -41.0       | 2.18 V             | 231                  | 47.9             | -0.7                     |
| 8                                                    | #25380.00       | 37.4 AV                 | 68.2           | -30.8       | 2.18 V             | 231                  | 38.1             | -0.7                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

#### 4.1.9 Test Results (Mode 4)

##### Above 1GHz Data:

|                             |                    |                                          |                                                             |
|-----------------------------|--------------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE20) | <b>Channel</b>                           | CH 113 : 6515 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 300 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz       | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 115.8 PK                |                |             | 1.60 H             | 26                   | 109.6            | 6.2                      |
| 2                                                    | *6515.00        | 106.5 AV                |                |             | 1.60 H             | 26                   | 100.3            | 6.2                      |
| 3                                                    | #13030.00       | 55.4 PK                 | 88.2           | -32.8       | 2.26 H             | 122                  | 46.6             | 8.8                      |
| 4                                                    | #13030.00       | 44.4 AV                 | 68.2           | -23.8       | 2.26 H             | 122                  | 35.6             | 8.8                      |
| 5                                                    | 19545.00        | 54.0 PK                 | 74.0           | -20.0       | 1.55 H             | 102                  | 60.6             | -6.6                     |
| 6                                                    | 19545.00        | 44.1 AV                 | 54.0           | -9.9        | 1.55 H             | 102                  | 50.7             | -6.6                     |
| 7                                                    | #26060.00       | 46.5 PK                 | 88.2           | -41.7       | 2.12 H             | 138                  | 46.6             | -0.1                     |
| 8                                                    | #26060.00       | 36.6 AV                 | 68.2           | -31.6       | 2.12 H             | 138                  | 36.7             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6515.00        | 117.9 PK                |                |             | 1.12 V             | 257                  | 111.7            | 6.2                      |
| 2                                                    | *6515.00        | 109.4 AV                |                |             | 1.12 V             | 257                  | 103.2            | 6.2                      |
| 3                                                    | #13030.00       | 56.7 PK                 | 88.2           | -31.5       | 1.21 V             | 238                  | 47.9             | 8.8                      |
| 4                                                    | #13030.00       | 45.0 AV                 | 68.2           | -23.2       | 1.21 V             | 238                  | 36.2             | 8.8                      |
| 5                                                    | 19545.00        | 59.0 PK                 | 74.0           | -15.0       | 2.38 V             | 290                  | 65.6             | -6.6                     |
| 6                                                    | 19545.00        | 47.4 AV                 | 54.0           | -6.6        | 2.38 V             | 290                  | 54.0             | -6.6                     |
| 7                                                    | #26060.00       | 46.5 PK                 | 88.2           | -41.7       | 2.16 V             | 233                  | 46.6             | -0.1                     |
| 8                                                    | #26060.00       | 36.9 AV                 | 68.2           | -31.3       | 2.16 V             | 233                  | 37.0             | -0.1                     |

##### Remarks:

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* " : Fundamental frequency.
6. " # " : The radiated frequency is out of the restricted band.

|                             |                    |                                          |                                                             |
|-----------------------------|--------------------|------------------------------------------|-------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE40) | <b>Channel</b>                           | CH 115 : 6525 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 300 Hz |
| <b>Input Power (System)</b> | 120Vac, 60Hz       | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                              |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                             |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6525.00        | 115.2 PK                |                |             | 1.58 H             | 14                   | 109.0            | 6.2                      |
| 2                                                    | *6525.00        | 104.9 AV                |                |             | 1.58 H             | 14                   | 98.7             | 6.2                      |
| 3                                                    | #13050.00       | 55.6 PK                 | 88.2           | -32.6       | 2.35 H             | 123                  | 46.8             | 8.8                      |
| 4                                                    | #13050.00       | 45.1 AV                 | 68.2           | -23.1       | 2.35 H             | 123                  | 36.3             | 8.8                      |
| 5                                                    | 19575.00        | 54.8 PK                 | 74.0           | -19.2       | 1.45 H             | 86                   | 61.3             | -6.5                     |
| 6                                                    | 19575.00        | 44.4 AV                 | 54.0           | -9.6        | 1.45 H             | 86                   | 50.9             | -6.5                     |
| 7                                                    | #26100.00       | 46.1 PK                 | 88.2           | -42.1       | 2.12 H             | 157                  | 46.1             | 0.0                      |
| 8                                                    | #26100.00       | 36.3 AV                 | 68.2           | -31.9       | 2.12 H             | 157                  | 36.3             | 0.0                      |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6525.00        | 115.4 PK                |                |             | 1.09 V             | 253                  | 109.2            | 6.2                      |
| 2                                                    | *6525.00        | 105.1 AV                |                |             | 1.09 V             | 253                  | 98.9             | 6.2                      |
| 3                                                    | #13050.00       | 56.6 PK                 | 88.2           | -31.6       | 1.31 V             | 261                  | 47.8             | 8.8                      |
| 4                                                    | #13050.00       | 45.5 AV                 | 68.2           | -22.7       | 1.31 V             | 261                  | 36.7             | 8.8                      |
| 5                                                    | 19575.00        | 58.9 PK                 | 74.0           | -15.1       | 2.41 V             | 282                  | 65.4             | -6.5                     |
| 6                                                    | 19575.00        | 47.7 AV                 | 54.0           | -6.3        | 2.41 V             | 282                  | 54.2             | -6.5                     |
| 7                                                    | #26100.00       | 45.7 PK                 | 88.2           | -42.5       | 2.23 V             | 232                  | 45.7             | 0.0                      |
| 8                                                    | #26100.00       | 36.2 AV                 | 68.2           | -32.0       | 2.23 V             | 232                  | 36.2             | 0.0                      |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                    |                                          |                                                            |
|-----------------------------|--------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE80) | <b>Channel</b>                           | CH 119 : 6545 MHz                                          |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz     | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 1 kHz |
| <b>Input Power (System)</b> | 120Vac, 60Hz       | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                             |
| <b>Tested By</b>            | Tom Yang           |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6545.00        | 109.9 PK                |                |             | 1.62 H             | 13                   | 103.7            | 6.2                      |
| 2                                                    | *6545.00        | 100.0 AV                |                |             | 1.62 H             | 13                   | 93.8             | 6.2                      |
| 3                                                    | #13090.00       | 55.6 PK                 | 88.2           | -32.6       | 2.26 H             | 114                  | 46.8             | 8.8                      |
| 4                                                    | #13090.00       | 44.8 AV                 | 68.2           | -23.4       | 2.26 H             | 114                  | 36.0             | 8.8                      |
| 5                                                    | 19635.00        | 54.4 PK                 | 74.0           | -19.6       | 1.54 H             | 107                  | 60.9             | -6.5                     |
| 6                                                    | 19635.00        | 44.1 AV                 | 54.0           | -9.9        | 1.54 H             | 107                  | 50.6             | -6.5                     |
| 7                                                    | #26180.00       | 45.8 PK                 | 88.2           | -42.4       | 2.10 H             | 130                  | 45.9             | -0.1                     |
| 8                                                    | #26180.00       | 36.3 AV                 | 68.2           | -31.9       | 2.10 H             | 130                  | 36.4             | -0.1                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6545.00        | 111.5 PK                |                |             | 1.04 V             | 266                  | 105.3            | 6.2                      |
| 2                                                    | *6545.00        | 102.1 AV                |                |             | 1.04 V             | 266                  | 95.9             | 6.2                      |
| 3                                                    | #13090.00       | 56.4 PK                 | 88.2           | -31.8       | 1.21 V             | 265                  | 47.6             | 8.8                      |
| 4                                                    | #13090.00       | 45.5 AV                 | 68.2           | -22.7       | 1.21 V             | 265                  | 36.7             | 8.8                      |
| 5                                                    | 19635.00        | 59.5 PK                 | 74.0           | -14.5       | 2.38 V             | 287                  | 66.0             | -6.5                     |
| 6                                                    | 19635.00        | 48.4 AV                 | 54.0           | -5.6        | 2.38 V             | 287                  | 54.9             | -6.5                     |
| 7                                                    | #26180.00       | 45.9 PK                 | 88.2           | -42.3       | 2.28 V             | 225                  | 46.0             | -0.1                     |
| 8                                                    | #26180.00       | 36.1 AV                 | 68.2           | -32.1       | 2.28 V             | 225                  | 36.2             | -0.1                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

|                             |                     |                                          |                                                            |
|-----------------------------|---------------------|------------------------------------------|------------------------------------------------------------|
| <b>RF Mode</b>              | TX 802.11ax (HE160) | <b>Channel</b>                           | CH 79 : 6345 MHz                                           |
| <b>Frequency Range</b>      | 1 GHz ~ 40 GHz      | <b>Detector Function &amp; Bandwidth</b> | (PK) RB = 1 MHz, VB = 3 MHz<br>(AV) RB = 1 MHz, VB = 2 kHz |
| <b>Input Power (System)</b> | 120Vac, 60Hz        | <b>Environmental Conditions</b>          | 25 °C, 75 % RH                                             |
| <b>Tested By</b>            | Tom Yang            |                                          |                                                            |

| Antenna Polarity & Test Distance : Horizontal at 3 m |                 |                         |                |             |                    |                      |                  |                          |
|------------------------------------------------------|-----------------|-------------------------|----------------|-------------|--------------------|----------------------|------------------|--------------------------|
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6345.00        | 105.4 PK                |                |             | 1.63 H             | 19                   | 99.3             | 6.1                      |
| 2                                                    | *6345.00        | 97.4 AV                 |                |             | 1.63 H             | 19                   | 91.3             | 6.1                      |
| 3                                                    | 12690.00        | 55.4 PK                 | 74.0           | -18.6       | 2.29 H             | 123                  | 46.6             | 8.8                      |
| 4                                                    | 12690.00        | 44.7 AV                 | 54.0           | -9.3        | 2.29 H             | 123                  | 35.9             | 8.8                      |
| 5                                                    | 19035.00        | 54.7 PK                 | 74.0           | -19.3       | 1.49 H             | 98                   | 61.7             | -7.0                     |
| 6                                                    | 19035.00        | 44.5 AV                 | 54.0           | -9.5        | 1.49 H             | 98                   | 51.5             | -7.0                     |
| 7                                                    | #25380.00       | 46.3 PK                 | 88.2           | -41.9       | 2.07 H             | 145                  | 47.0             | -0.7                     |
| 8                                                    | #25380.00       | 36.7 AV                 | 68.2           | -31.5       | 2.07 H             | 145                  | 37.4             | -0.7                     |
| Antenna Polarity & Test Distance : Vertical at 3 m   |                 |                         |                |             |                    |                      |                  |                          |
| No                                                   | Frequency (MHz) | Emission Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Antenna Height (m) | Table Angle (Degree) | Raw Value (dBuV) | Correction Factor (dB/m) |
| 1                                                    | *6345.00        | 111.4 PK                |                |             | 1.08 V             | 255                  | 105.3            | 6.1                      |
| 2                                                    | *6345.00        | 102.4 AV                |                |             | 1.08 V             | 255                  | 96.3             | 6.1                      |
| 3                                                    | 12690.00        | 56.8 PK                 | 74.0           | -17.2       | 1.26 V             | 249                  | 48.0             | 8.8                      |
| 4                                                    | 12690.00        | 45.6 AV                 | 54.0           | -8.4        | 1.26 V             | 249                  | 36.8             | 8.8                      |
| 5                                                    | 19035.00        | 59.8 PK                 | 74.0           | -14.2       | 2.39 V             | 268                  | 66.8             | -7.0                     |
| 6                                                    | 19035.00        | 48.3 AV                 | 54.0           | -5.7        | 2.39 V             | 268                  | 55.3             | -7.0                     |
| 7                                                    | #25380.00       | 45.8 PK                 | 88.2           | -42.4       | 2.20 V             | 213                  | 46.5             | -0.7                     |
| 8                                                    | #25380.00       | 35.9 AV                 | 68.2           | -32.3       | 2.20 V             | 213                  | 36.6             | -0.7                     |

**Remarks:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The other emission levels were very low against the limit.
5. " \* ": Fundamental frequency.
6. " # ": The radiated frequency is out of the restricted band.

## 4.2 In-Band Emission (Mask) Measurement

### 4.2.1 Limits of In-Band Emission (Mask) Measurement

| Test Item     | Frequencies (MHz)                                                                       | (X) dBc <sup>*1</sup> |
|---------------|-----------------------------------------------------------------------------------------|-----------------------|
| Emission Mask | At 1 MHz outside of channel edge                                                        | 20                    |
|               | At one channel bandwidth from the channel center <sup>*2</sup>                          | 28                    |
|               | At one- and one-half times the channel bandwidth away from channel center <sup>*3</sup> | 40                    |
|               | More than one- and one-half times the channel bandwidth                                 | 40                    |

<sup>\*1</sup> : The power spectral density must be suppressed by “x” dB

<sup>\*2</sup> : At frequencies between one megahertz outside an unlicensed device’s channel edge and one channel bandwidth from the center of the channel, the limits must be linearly interpolated between 20 dB and 28 dB suppression,

<sup>\*3</sup> : At frequencies between one and one- and one-half times an unlicensed device’s channel bandwidth, the limits must be linearly interpolated between 28 dB and 40 dB suppression.

### 4.2.2 Test Setup



### 4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.



#### 4.2.4 Test Procedure

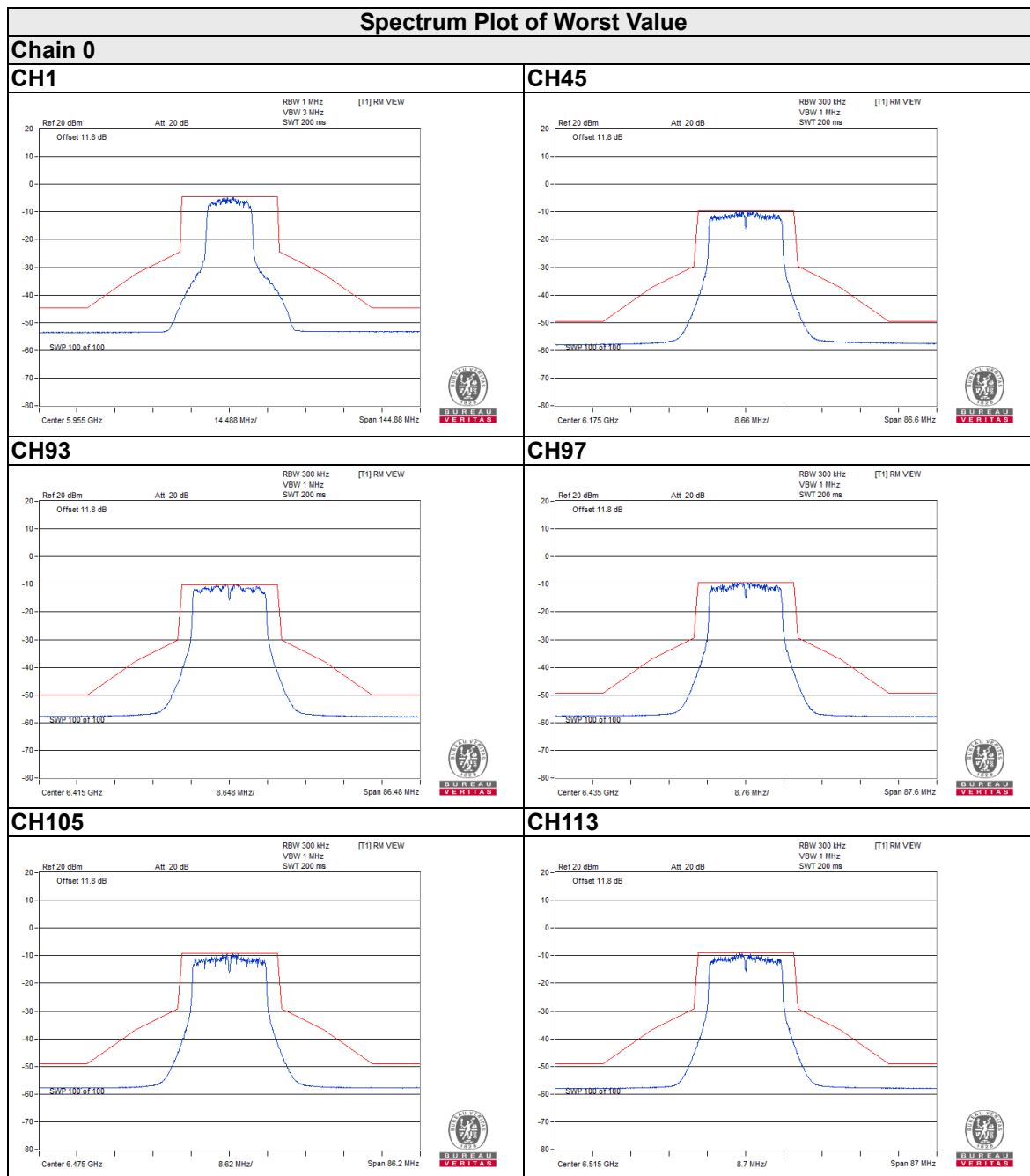
- a. Connect output of the antenna port to a spectrum analyzer and adjust appropriate attenuation.
- b. Measure the 26 dB EBW using the test procedure 12.4.1 of ANSI C63.10-2013. (Determine the channel edge.)
- c. Measure the power spectral density ( for emissions mask reference) using the following procedure:
  - a) Set the span to encompass the entire 26 dB EBW of the signal.
  - b) Set RBW = same RBW used for 26 dB EBW measurement.
  - c) Set VBW  $\geq 3 \times$  RBW
  - d) Number of points in sweep  $\geq [2 \times \text{span} / \text{RBW}]$ .
  - e) Sweep time = auto.
  - f) Detector = RMS (i.e., power averaging)
  - g) Trace average at least 100 traces in power averaging (rms) mode.
  - h) Use the peak search function on the instrument to find the peak of the spectrum.
- d. Using the measuring equipment limit line function, develop the emissions mask based on the following requirements. The emissions power spectral density must be reduced below the peak power spectral density (in dB) as follows:
  - a) Suppressed by 20 dB at 1 MHz outside of the channel edge. (The channel edge is defined as the 26-dB point on either side of the carrier center frequency.)
  - b) Suppressed by 28 dB at one channel bandwidth from the channel center.
  - c) Suppressed by 40 dB at one- and one-half times the channel bandwidth from the channel center.
- e. Adjust the span to encompass the entire mask as necessary and clear trace.
- f. Trace average at least 100 traces in power averaging (rms) mode.
- g. Adjust the reference level as necessary so that the crest of the channel touches the top of the emission mask

#### 4.2.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

## 4.2.6 Test Results (Mode 1)

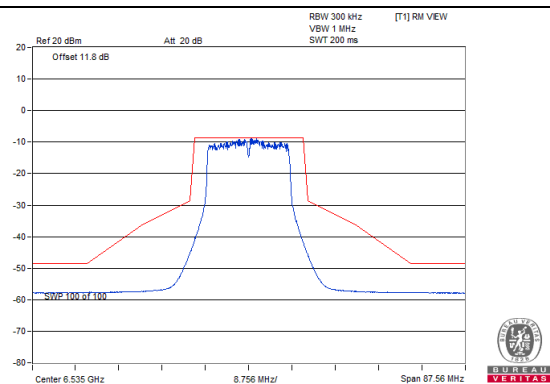
802.11a



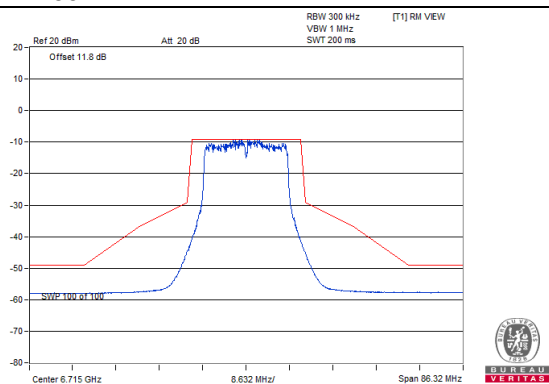
## Spectrum Plot of Worst Value

### Chain 0

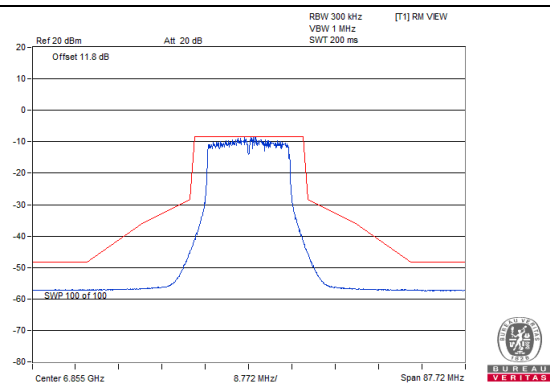
#### CH117



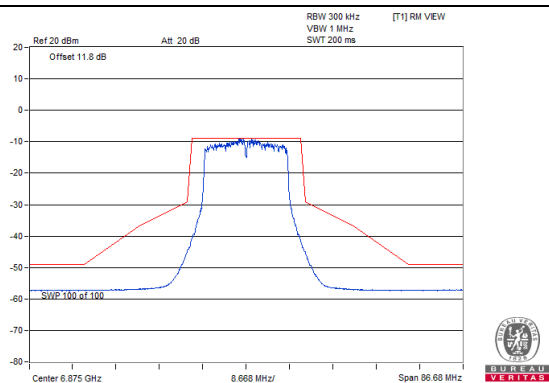
#### CH153



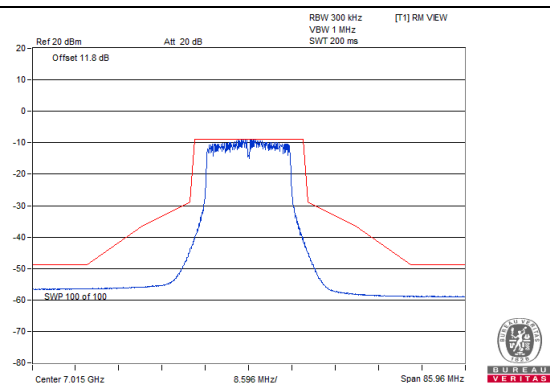
#### CH181



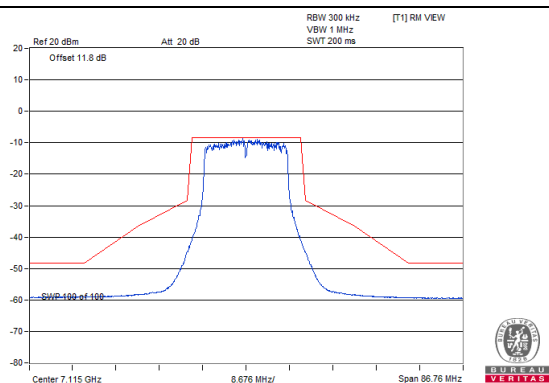
#### CH185



#### CH213



#### CH233



### 4.3 Conducted Emission Measurement

#### 4.3.1 Limits of Conducted Emission Measurement

| Frequency (MHz) | Conducted Limit (dBuV) |         |
|-----------------|------------------------|---------|
|                 | Quasi-peak             | Average |
| 0.15 - 0.5      | 66 - 56                | 56 - 46 |
| 0.50 - 5.0      | 56                     | 46      |
| 5.0 - 30.0      | 60                     | 50      |

Note: 1. The lower limit shall apply at the transition frequencies.

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

#### 4.3.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO.           | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|---------------------|------------|-----------------|------------------|
| TEST RECEIVER<br>R&S       | ESCS 30             | 847124/029 | 2021/10/13      | 2022/10/12       |
| LISN<br>R&S                | ESH3-Z5             | 848773/004 | 2021/10/29      | 2022/10/28       |
| 50 ohms Terminator<br>NA   | 50                  | 3          | 2021/10/27      | 2022/10/26       |
| RF Coaxial Cable<br>JYEBO  | 5D-FB               | COCCAB-001 | 2021/9/25       | 2022/9/24        |
| Fixed attenuator<br>STI    | STI02-2200-10       | 005        | 2021/8/27       | 2022/8/26        |
| Software<br>BVADT          | BVADT_Cond_V7.3.7.4 | NA         | NA              | NA               |

**Note:**

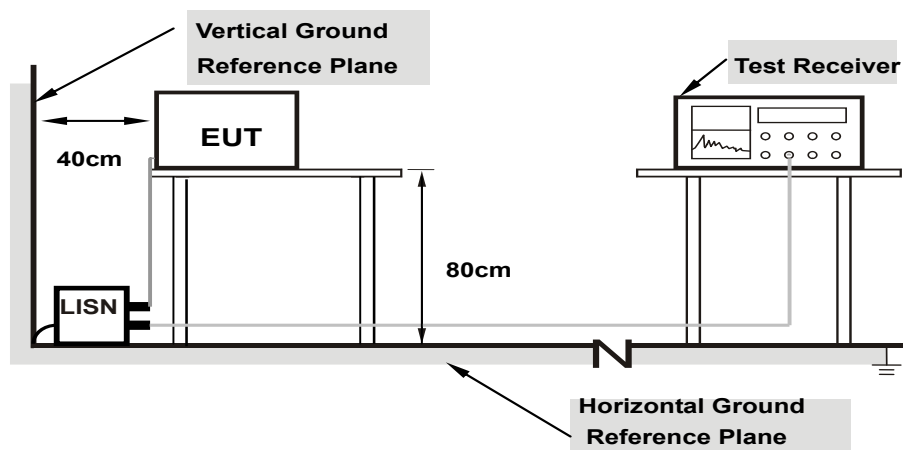
1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Conduction 1.
3. Tested Date: 2022/3/28

#### 4.3.3 Test Procedure

- The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument.
- Both lines of the power mains connected to the EUT were checked for maximum conducted interference.
- The frequency range from 150kHz to 30MHz was searched. Emission levels under (Limit - 20dB) was not recorded.

**NOTE:** All modes of operation were investigated and the worst-case emissions are reported.

#### 4.3.4 Test Setup



**Note: 1. Support units were connected to second LISN.**

For the actual test configuration, please refer to the attached file (Test Setup Photo) and ensure that the EUT is placed at least 80cm from other units and other metal planes.

#### 4.3.5 EUT Operating Condition

Same as 4.1.6.

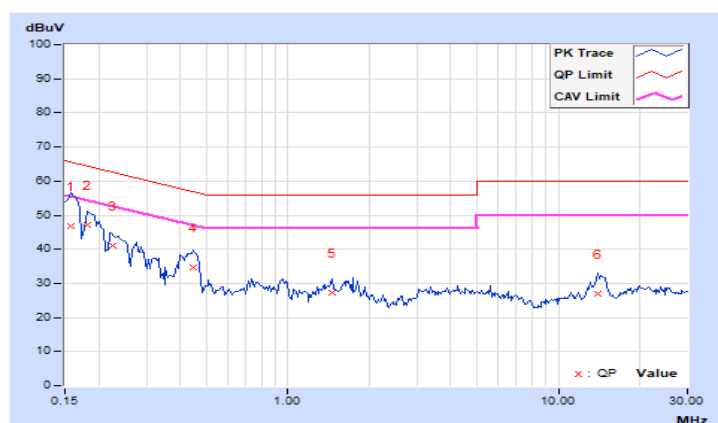
#### 4.3.6 Test Results (Mode 1)

|                             |                  |                                                     |                                       |
|-----------------------------|------------------|-----------------------------------------------------|---------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G    | <b>Channel</b>                                      | CH 181 : 6855 MHz                     |
| <b>Frequency Range</b>      | 150 kHz ~ 30 MHz | <b>Detector Function &amp; Resolution Bandwidth</b> | Quasi-Peak (QP) / Average (AV), 9 kHz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>                     | 22 °C, 65 % RH                        |
| <b>Tested By</b>            | Sampson Chen     |                                                     |                                       |

| Phase Of Power : Line (L) |                 |                        |                      |       |                       |       |              |       |             |        |
|---------------------------|-----------------|------------------------|----------------------|-------|-----------------------|-------|--------------|-------|-------------|--------|
| No                        | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |       | Emission Level (dBuV) |       | Limit (dBuV) |       | Margin (dB) |        |
|                           |                 |                        | Q.P.                 | AV.   | Q.P.                  | AV.   | Q.P.         | AV.   | Q.P.        | AV.    |
| 1                         | 0.15753         | 10.03                  | 36.65                | 18.05 | 46.68                 | 28.08 | 65.59        | 55.59 | -18.91      | -27.51 |
| 2                         | 0.18105         | 10.04                  | 37.23                | 28.47 | 47.27                 | 38.51 | 64.44        | 54.44 | -17.17      | -15.93 |
| 3                         | 0.22437         | 10.04                  | 31.05                | 19.56 | 41.09                 | 29.60 | 62.66        | 52.66 | -21.57      | -23.06 |
| 4                         | 0.44705         | 10.05                  | 24.47                | 17.38 | 34.52                 | 27.43 | 56.93        | 46.93 | -22.41      | -19.50 |
| 5                         | 1.45355         | 10.11                  | 17.27                | 12.25 | 27.38                 | 22.36 | 56.00        | 46.00 | -28.62      | -23.64 |
| 6                         | 13.95647        | 10.92                  | 16.12                | 8.67  | 27.04                 | 19.59 | 60.00        | 50.00 | -32.96      | -30.41 |

#### Remarks:

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value

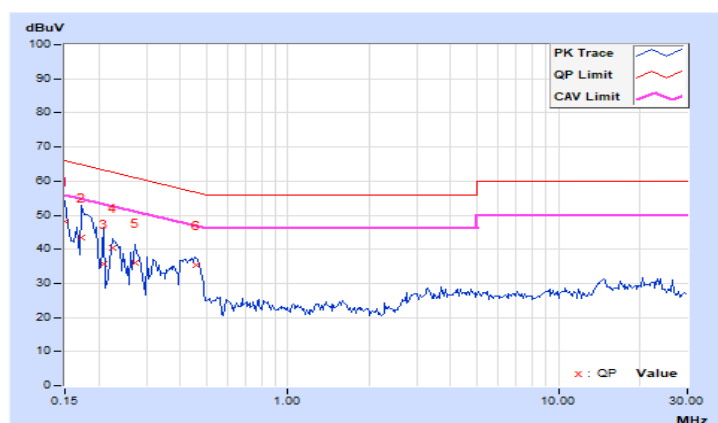


|                             |                  |                                                     |                                       |
|-----------------------------|------------------|-----------------------------------------------------|---------------------------------------|
| <b>RF Mode</b>              | TX 802.11a 6G    | <b>Channel</b>                                      | CH 181 : 6855 MHz                     |
| <b>Frequency Range</b>      | 150 kHz ~ 30 MHz | <b>Detector Function &amp; Resolution Bandwidth</b> | Quasi-Peak (QP) / Average (AV), 9 kHz |
| <b>Input Power (System)</b> | 120 Vac, 60 Hz   | <b>Environmental Conditions</b>                     | 22 °C, 65 % RH                        |
| <b>Tested By</b>            | Sampson Chen     |                                                     |                                       |

| Phase Of Power : Neutral (N) |                 |                        |                      |              |                       |              |              |              |               |               |
|------------------------------|-----------------|------------------------|----------------------|--------------|-----------------------|--------------|--------------|--------------|---------------|---------------|
| No                           | Frequency (MHz) | Correction Factor (dB) | Reading Value (dBuV) |              | Emission Level (dBuV) |              | Limit (dBuV) |              | Margin (dB)   |               |
|                              |                 |                        | Q.P.                 | AV.          | Q.P.                  | AV.          | Q.P.         | AV.          | Q.P.          | AV.           |
| 1                            | 0.15023         | 10.04                  | 38.14                | 19.24        | 48.18                 | 29.28        | 65.99        | 55.99        | -17.81        | -26.71        |
| 2                            | 0.17285         | 10.04                  | 33.47                | 17.05        | 43.51                 | 27.09        | 64.82        | 54.82        | -21.31        | -27.73        |
| 3                            | 0.20748         | 10.04                  | 25.55                | 9.11         | 35.59                 | 19.15        | 63.31        | 53.31        | -27.72        | -34.16        |
| 4                            | 0.22405         | 10.04                  | 30.41                | 17.47        | 40.45                 | 27.51        | 62.67        | 52.67        | -22.22        | -25.16        |
| 5                            | 0.27208         | 10.05                  | 25.88                | 16.23        | 35.93                 | 26.28        | 61.05        | 51.05        | -25.12        | -24.77        |
| 6                            | <b>0.45801</b>  | <b>10.06</b>           | <b>25.27</b>         | <b>20.85</b> | <b>35.33</b>          | <b>30.91</b> | <b>56.73</b> | <b>46.73</b> | <b>-21.40</b> | <b>-15.82</b> |

**Remarks:**

1. Q.P. and AV. are abbreviations of quasi-peak and average individually.
2. The emission levels of other frequencies were very low against the limit.
3. Margin value = Emission level – Limit value
4. Correction factor = Insertion loss + Cable loss
5. Emission Level = Correction Factor + Reading Value



#### 4.4 Transmit Power Measurement

##### 4.4.1 Limits of Transmit Power Measurement

| Operation Band                           | EUT Category                                     | Limit             |
|------------------------------------------|--------------------------------------------------|-------------------|
|                                          |                                                  | Max Average Power |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | Client Devices<br>( controlled of an indoor AP ) | EIRP 24 dBm       |

Per KDB 662911 Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for  $N_{ANT} \leq 4$ ;

Array Gain = 0 dB (i.e., no array gain) for channel widths  $\geq 40$  MHz for any  $N_{ANT}$ ;

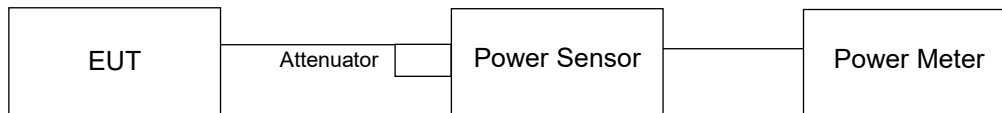
Array Gain =  $5 \log(N_{ANT}/N_{SS})$  dB or 3 dB, whichever is less for 20-MHz channel widths with  $N_{ANT} \geq 5$ .

For power measurements on all other devices: Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB.



#### 4.4.2 Test Setup

##### FOR POWER OUTPUT MEASUREMENT



#### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

#### 4.4.4 Test Procedure

##### FOR POWER OUTPUT MEASUREMENT

###### Conducted Power (dBm)

Method PM is used to perform output power measurement, trigger and gating function of wide band power meter is enabled to measure max output power of TX on burst. Duty factor is not added to measured value.

EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

#### 4.4.5 EUT Operating Condition

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

#### 4.4.6 Test Result (Mode 1)

##### Power Output:

##### 802.11a

| Chan. | Chan. Freq. (MHz) | Average Power (mW) | Average Power (dBm) | Max. Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Pass / Fail |
|-------|-------------------|--------------------|---------------------|-----------------|-----------|------------|------------------|-------------|
| 1     | 5955              | 4.498              | 6.53                | 4.76            | 13.459    | 11.29      | 24               | Pass        |
| 45    | 6175              | 4.989              | 6.98                | 4.76            | 14.928    | 11.74      | 24               | Pass        |
| 93    | 6415              | 4.764              | 6.78                | 4.76            | 14.256    | 11.54      | 24               | Pass        |
| 97    | 6435              | 5.383              | 7.31                | 4.29            | 14.454    | 11.6       | 24               | Pass        |
| 105   | 6475              | 5.2                | 7.16                | 4.29            | 13.964    | 11.45      | 24               | Pass        |
| 113   | 6515              | 5.082              | 7.06                | 4.29            | 13.646    | 11.35      | 24               | Pass        |
| 117   | 6535              | 5.188              | 7.15                | 4.61            | 14.997    | 11.76      | 24               | Pass        |
| 153   | 6715              | 4.932              | 6.93                | 4.61            | 14.256    | 11.54      | 24               | Pass        |
| 181   | 6855              | 5.848              | 7.67                | 4.61            | 16.904    | 12.28      | 24               | Pass        |
| 185   | 6875              | 5.224              | 7.18                | 4.09            | 13.397    | 11.27      | 24               | Pass        |
| 213   | 7015              | 5.888              | 7.70                | 4.09            | 15.101    | 11.79      | 24               | Pass        |
| 233   | 7115              | 5.598              | 7.48                | 4.09            | 14.355    | 11.57      | 24               | Pass        |

Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

3. Since this device support 1TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ( for conducted output power measurement)

#### 4.4.7 Test Result (Mode 3)

##### Power Output:

##### 802.11ax (HE20)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Max. Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Pass / Fail |
|-------|-------------------|---------------------|---------|------------------|-------------------|-----------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                 |           |            |                  |             |
| 113   | 6515              | 1.84                | 2.05    | 3.131            | 4.96              | 4.29            | 8.414     | 9.25       | 24               | Pass        |

- Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))  
 2. U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi  
 3. Since this device support 2TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ( for conducted output power measurement)

##### 802.11ax (HE40)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Max. Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Pass / Fail |
|-------|-------------------|---------------------|---------|------------------|-------------------|-----------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                 |           |            |                  |             |
| 115   | 6525              | 3.86                | 3.65    | 4.75             | 6.77              | 4.61            | 13.74     | 11.38      | 24               | Pass        |

- Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))  
 2. U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi  
 3. Since this device support 2TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ( for conducted output power measurement)

##### 802.11ax (HE80)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Max. Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Pass / Fail |
|-------|-------------------|---------------------|---------|------------------|-------------------|-----------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                 |           |            |                  |             |
| 119   | 6545              | 6.91                | 7.26    | 10.23            | 10.10             | 4.61            | 29.58     | 14.71      | 24               | Pass        |

- Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))  
 2. U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi  
 3. Since this device support 2TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ( for conducted output power measurement)

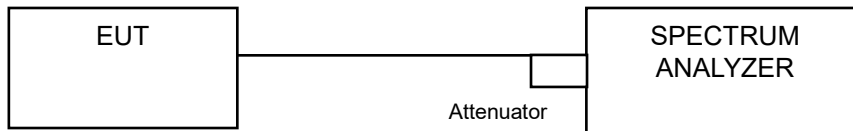
##### 802.11ax (HE160)

| Chan. | Chan. Freq. (MHz) | Average Power (dBm) |         | Total Power (mW) | Total Power (dBm) | Max. Gain (dBi) | EIRP (mW) | EIRP (dBm) | EIRP Limit (dBm) | Pass / Fail |
|-------|-------------------|---------------------|---------|------------------|-------------------|-----------------|-----------|------------|------------------|-------------|
|       |                   | Chain 0             | Chain 1 |                  |                   |                 |           |            |                  |             |
| 79    | 6345              | 9.31                | 9.44    | 17.321           | 12.39             | 4.76            | 51.88     | 17.15      | 24               | Pass        |

- Note: 1. EIRP= Conducted Power (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))  
 2. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi  
 3. Since this device support 2TX only, therefore array gain = 0 dB (i.e., no array gain) for NANT ≤ 4 ( for conducted output power measurement)

## 4.5 Emission Bandwidth Measurement

### 4.5.1 Test Setup



### 4.5.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.3 Test Procedure

#### FOR 99% OCCUPIED BANDWIDTH

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to SAMPLE. The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### FOR 26dB BANDWIDTH

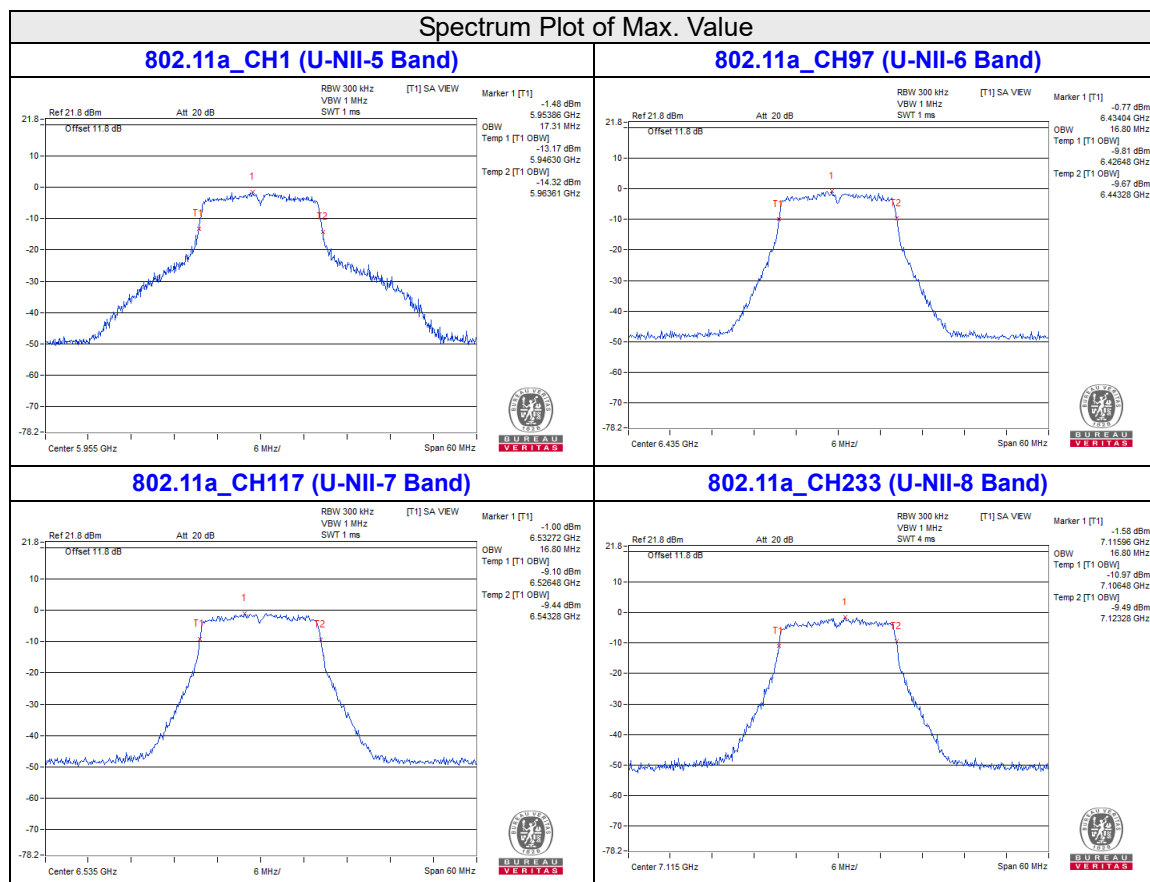
- Set RBW = approximately 1% of the emission bandwidth.
- Set the VBW > RBW.
- Detector = Peak.
- Trace mode = max hold.
- Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

#### 4.5.4 Test Results (Mode 1)

#### 99% Occupied Bandwidth:

#### 802.11a

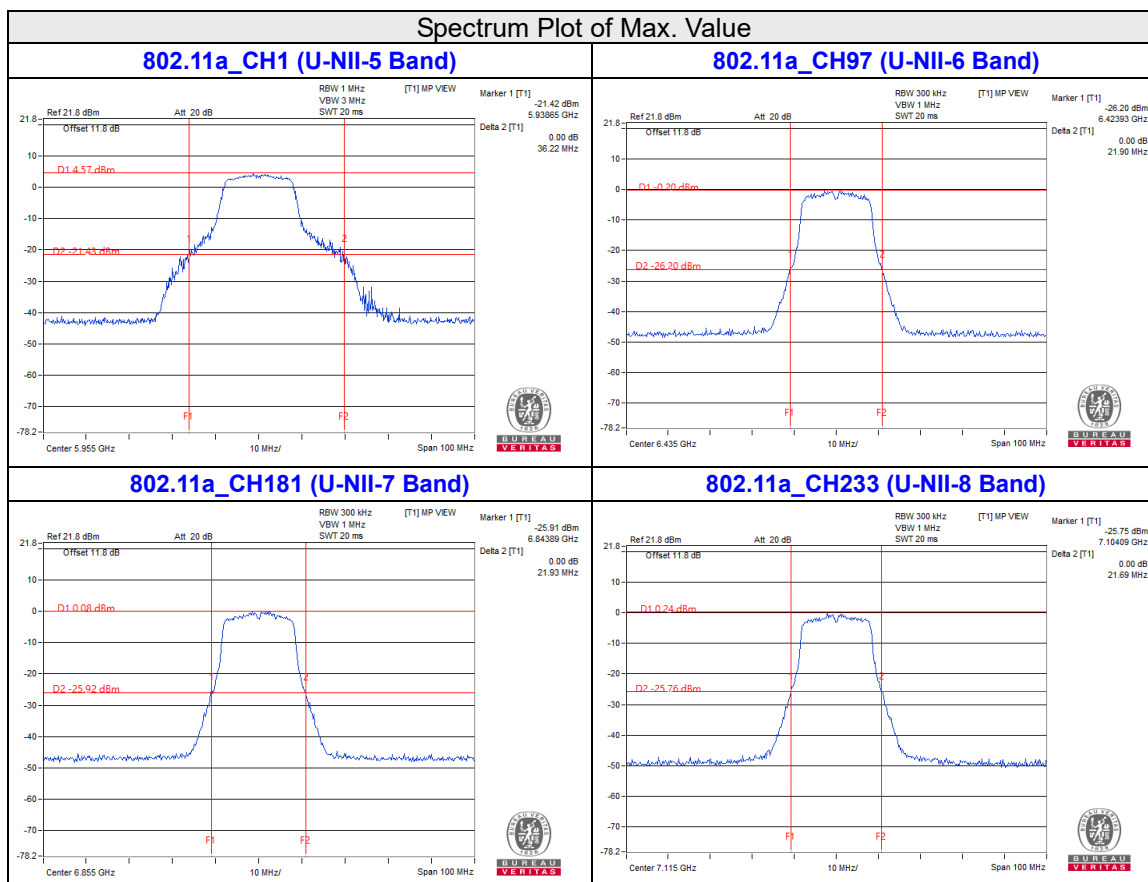
| Channel | Frequency (MHz) | Occupied Bandwidth (MHz) |
|---------|-----------------|--------------------------|
| 1       | 5955            | 17.31                    |
| 45      | 6175            | 16.8                     |
| 93      | 6415            | 16.8                     |
| 97      | 6435            | 16.8                     |
| 105     | 6475            | 16.68                    |
| 113     | 6515            | 16.68                    |
| 117     | 6535            | 16.8                     |
| 153     | 6715            | 16.8                     |
| 181     | 6855            | 16.8                     |
| 185     | 6875            | 16.68                    |
| 213     | 7015            | 16.56                    |
| 233     | 7115            | 16.8                     |



## 26dB Bandwidth:

### 802.11a

| Channel | Frequency (MHz) | 26dB Bandwidth (MHz) | Limit (MHz) |
|---------|-----------------|----------------------|-------------|
| 1       | 5955            | 36.22                | 320         |
| 45      | 6175            | 21.65                | 320         |
| 93      | 6415            | 21.62                | 320         |
| 97      | 6435            | 21.9                 | 320         |
| 105     | 6475            | 21.55                | 320         |
| 113     | 6515            | 21.75                | 320         |
| 117     | 6535            | 21.89                | 320         |
| 153     | 6715            | 21.58                | 320         |
| 181     | 6855            | 21.93                | 320         |
| 185     | 6875            | 21.67                | 320         |
| 213     | 7015            | 21.49                | 320         |
| 233     | 7115            | 21.69                | 320         |



## 4.6 Peak Power Spectral Density Measurement

### 4.6.1 Limits of Peak Power Spectral Density Measurement

| Operation Band                           | EUT Category                                     | Limit                     |
|------------------------------------------|--------------------------------------------------|---------------------------|
|                                          |                                                  | Peak Power Density (EIRP) |
| U-NII-5<br>U-NII-6<br>U-NII-7<br>U-NII-8 | Client Devices<br>( controlled of an indoor AP ) | -1 dBm/MHz                |

### 4.6.2 Test Setup For Conducted Method



### 4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.6.4 Test Procedure

Using method SA-2

- Set span to encompass the entire emission bandwidth (EBW) of the signal.
- Set RBW = 1 MHz, Set VBW  $\geq$  3 MHz
- Sweep time = auto, trigger set to "free run".
- Detector = RMS
- Trace average at least 100 traces in power averaging mode.
- Record the max value and add 10 log (1/duty cycle)

### 4.6.5 EUT Operating Condition

Same as Item 4.3.6.

#### 4.6.6 Test Results (Mode 1)

##### 802.11a

| Chan. | Chan. Freq. (MHz) | PSD w/o Duty Factor (dBm/MHz) | Duty Factor (dB) | PSD (dBm/MHz) | Directional Gain (dBi) | EIRP PSD (dBm/MHz) | EIRP PSD Limit (dBm/MHz) | Pass / Fail |
|-------|-------------------|-------------------------------|------------------|---------------|------------------------|--------------------|--------------------------|-------------|
| 1     | 5955              | -6.11                         | 0.26             | -5.85         | 4.76                   | -1.09              | -1                       | Pass        |
| 45    | 6175              | -6.09                         | 0.26             | -5.83         | 4.76                   | -1.07              | -1                       | Pass        |
| 93    | 6415              | -6.33                         | 0.26             | -6.07         | 4.76                   | -1.31              | -1                       | Pass        |
| 97    | 6435              | -5.64                         | 0.26             | -5.38         | 4.29                   | -1.09              | -1                       | Pass        |
| 105   | 6475              | -5.8                          | 0.26             | -5.54         | 4.29                   | -1.25              | -1                       | Pass        |
| 113   | 6515              | -5.75                         | 0.26             | -5.49         | 4.29                   | -1.2               | -1                       | Pass        |
| 117   | 6535              | -6.41                         | 0.26             | -6.15         | 4.61                   | -1.54              | -1                       | Pass        |
| 153   | 6715              | -6.12                         | 0.26             | -5.86         | 4.61                   | -1.25              | -1                       | Pass        |
| 181   | 6855              | -5.93                         | 0.26             | -5.67         | 4.61                   | -1.06              | -1                       | Pass        |
| 185   | 6875              | -5.49                         | 0.26             | -5.23         | 4.09                   | -1.14              | -1                       | Pass        |
| 213   | 7015              | -5.45                         | 0.26             | -5.19         | 4.09                   | -1.1               | -1                       | Pass        |
| 233   | 7115              | -5.48                         | 0.26             | -5.22         | 4.09                   | -1.13              | -1                       | Pass        |

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

2. EIRP PSD= Conducted PSD (dBm) + Directional gain (antenna gain (dBi) + array gain (dB))

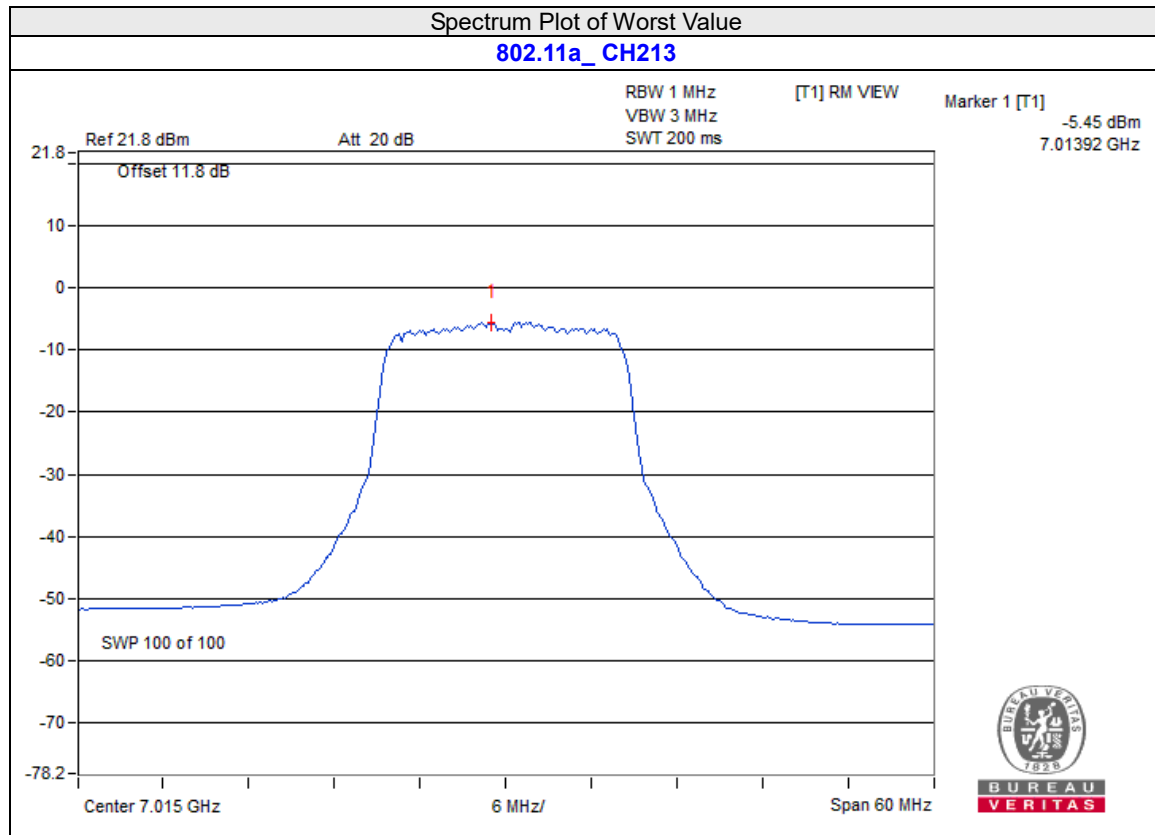
3. U-NII-5 Directional gain = antenna gain (dBi) + array gain (dB) = 4.76 + 0 dB = 4.76 dBi

U-NII-6 Directional gain = antenna gain (dBi) + array gain (dB) = 4.29 + 0 dB = 4.29 dBi

U-NII-7 Directional gain = antenna gain (dBi) + array gain (dB) = 4.61 + 0 dB = 4.61 dBi

U-NII-8 Directional gain = antenna gain (dBi) + array gain (dB) = 4.09 + 0 dB = 4.09 dBi

4. Array Gain =  $10 \log(N_{ANT}/N_{SS})$  dB =  $10 \log(1/1)$  dB = 0 dB



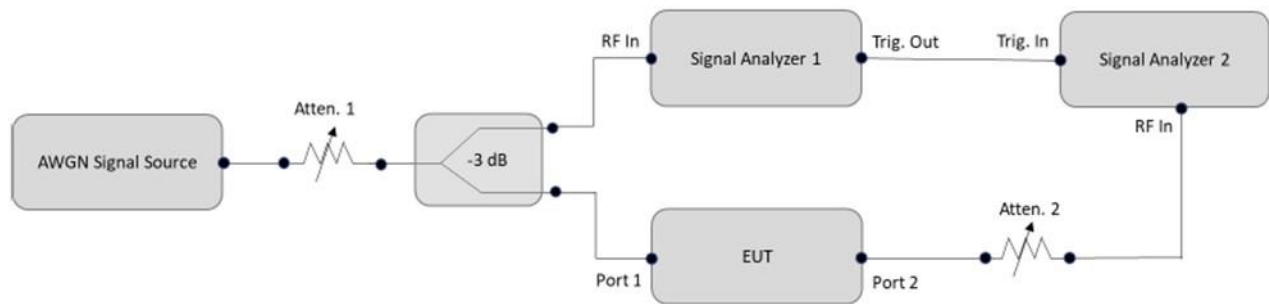


## 4.7 Contention Based Protocol Measurement

### 4.7.1 Limits of Contention Based Protocol Measurement

Unlicensed indoor low-power devices must detect co-channel radio frequency power that is at least -62 dBm (The threshold is referenced to a 0 dBi antenna gain.) or lower. Additionally, indoor low-power devices must detect co-channel energy with 90% or greater certainty.

### 4.7.2 Test Setup



### 4.7.3 Test Instruments

| Description & Manufacturer                       | Model No.    | Serial No.    | Calibrated Date | Calibrated Until |
|--------------------------------------------------|--------------|---------------|-----------------|------------------|
| Spectrum Analyzer R&S                            | FSW8         | 101497        | 2021/8/25       | 2022/8/24        |
| Spectrum Analyzer R&S                            | FSV40        | 101516        | 2022/3/7        | 2023/3/6         |
| MXG X-Series RF Vector Signal Generator Keysight | N5182B       | MY53052647    | 2021/11/5       | 2022/11/4        |
| N5182BU KEYSIGHT                                 | N5182BX07    | MY59360203    | 2021/12/10      | 2022/12/09       |
| Power Splitter/combiner Mini-Circuits            | ZFRSC-123-S+ | F698501347_01 | 2022/1/26       | 2023/1/25        |

Note: 1. The test was performed in Femtocell room.

2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.

3. Tested Date: 2022/5/4

#### 4.7.4 Test Procedure

- Set the signal analyzer center frequency to the nominal EUT channel center frequency. The span range of the signal analyzer shall be between two times and five times the OBW of the EUT. Connect the output port of the EUT to the signal analyzer 2. Ensure that the attenuator 2 provides enough attenuation to not overload the signal analyzer 2 receiver.
- Monitoring the signal analyzer 2, verify the EUT is operating and transmitting with the parameters (set as following section 4.7.5 EUT operating condition).
- Determine number of times detection threshold test as following table,

| If                                        | Number of Tests                                                    | Placement of Incumbent Transmission                                        |
|-------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------|
| $BW_{EUT} \leq BW_{Inc}$                  | Once                                                               | Same as EUT transmission                                                   |
| $BW_{Inc} < BW_{EUT} \leq 2x BW_{Inc}$    | Once                                                               | Contained within $BW_{EUT}$                                                |
| $2x BW_{Inc} < BW_{EUT} \leq 4x BW_{Inc}$ | Twice.<br>(Incumbent transmission is contained within $BW_{EUT}$ ) | Closely to the lower edge and upper edge of the EUT Channel                |
| $BW_{EUT} > 4x BW_{Inc}$                  | Three times                                                        | Closely to the lower edge ,in the middle and upper edge of the EUT Channel |

- Using an AWGN signal source, generate (but do not transmit, i.e., RF OFF) a 10 MHz-wide AWGN signal. Use step c table to determine the center frequency of the 10 MHz AWGN signal relative to the EUT's channel bandwidth and center frequency.
- Set the AWGN signal power to an extremely low level (more than 20 dB below the -62 dBm threshold). Connect the AWGN signal source, via a 3-dB splitter, to the signal analyzer 1 and the EUT.
- Transmit the AWGN signal (RF ON) and verify its characteristics on the signal analyzer 1.
- Monitor the signal analyzer 2 to verify if the AWGN signal has been detected and the EUT has ceased transmission. If the EUT continues to transmit, then incrementally increase the AWGN signal power level until the EUT stops transmitting.
- (Including all losses in the RF paths) Determine and record the AWGN signal power level (at the EUT's antenna port) at which the EUT ceased transmission. Repeat the procedure at least 10 times to verify the EUT can detect an AWGN signal with 90% (or better) level of certainty.
- Refer to step c table to determine number of times the detection threshold testing needs to be repeated. If testing is required more than once, then go back to step d, choose a different center frequency for the AWGN signal and repeat the process.

#### 4.7.5 EUT Operating Condition

Set the EUT to transmit with a constant duty cycle and relative operating parameters which including power level, operating frequency, modulation and bandwidth.

#### 4.7.6 Test Results

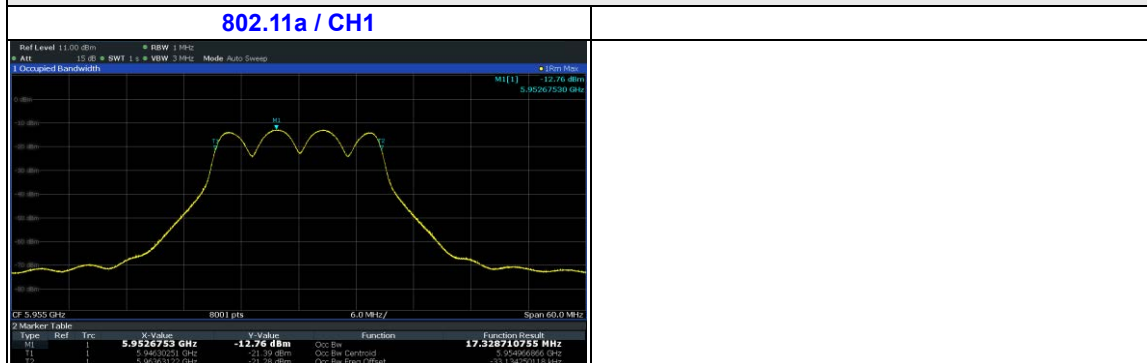
##### For U-NII-5 band

| Contention Based Protocol Measurement |                         |                       |                         |                                         |                 |                    |                |                          |           |
|---------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------------------------|-----------------|--------------------|----------------|--------------------------|-----------|
| Measurement Mode :                    |                         | Conducted measurement |                         | The Incumbent Signal(AWGN) Level(dBm) : |                 |                    | -82            | at the antenna connector |           |
| Device Type :                         |                         | Indoor Client         |                         | Antenna Gain(dBi) :                     |                 |                    | -14.46         |                          |           |
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number        | Channel Frequency (MHz) | AWGN Signal Frequency (MHz)             | Number of Times | Number of Detected | Detection Rate | Minimum Limit            | Pass/Fail |
| 802.11a                               | 20                      | 1                     | 5955                    | 5955                                    | 10              | 10                 | 100%           | 90%                      | Pass      |
| Result                                | Complied                |                       |                         |                                         |                 |                    |                |                          |           |

| Lowest Interference(AWGN) Level Check |                         |                |                         |                             |                       |                    |
|---------------------------------------|-------------------------|----------------|-------------------------|-----------------------------|-----------------------|--------------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Frequency (MHz) | AWGN Signal Frequency (MHz) | Threshold Level (dBm) | EUT Status         |
| 802.11a                               | 20                      | 1              | 5955                    | 5955                        | -83                   | Start transmitting |

Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.

### Plots of EUT Tx waveform



### Plots of Incumbent signal(AWGN) Level



### Plots of EUT ceased transmission in the time domain

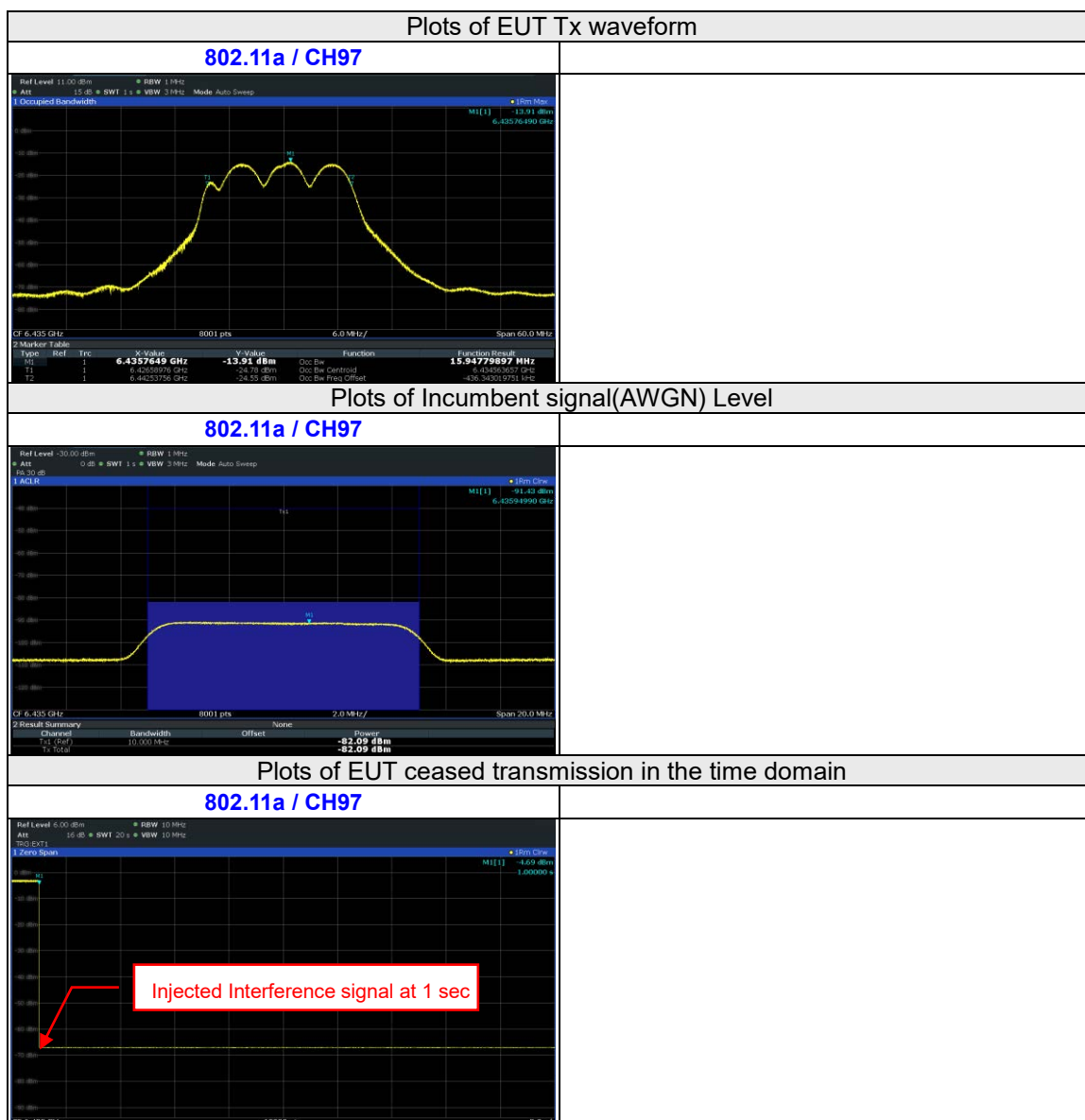


### For U-NII-6 band

| Contention Based Protocol Measurement |                         |                       |                         |                                         |                 |                    |                |                          |           |
|---------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------------------------|-----------------|--------------------|----------------|--------------------------|-----------|
| Measurement Mode :                    |                         | Conducted measurement |                         | The Incumbent Signal(AWGN) Level(dBm) : |                 |                    | -82            | at the antenna connector |           |
| Device Type :                         |                         | Indoor Client         |                         | Antenna Gain(dBi) :                     |                 |                    | -14.46         |                          |           |
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number        | Channel Frequency (MHz) | AWGN Signal Frequency (MHz)             | Number of Times | Number of Detected | Detection Rate | Minimum Limit            | Pass/Fail |
| 802.11a                               | 20                      | 97                    | 6435                    | 6435                                    | 10              | 10                 | 100%           | 90%                      | Pass      |
| Result                                | Complied                |                       |                         |                                         |                 |                    |                |                          |           |

| Lowest Interference(AWGN) Level Check |                         |                |                         |                             |                       |                    |
|---------------------------------------|-------------------------|----------------|-------------------------|-----------------------------|-----------------------|--------------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Frequency (MHz) | AWGN Signal Frequency (MHz) | Threshold Level (dBm) | EUT Status         |
| 802.11a                               | 20                      | 97             | 6435                    | 6435                        | -83                   | Start transmitting |

Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.



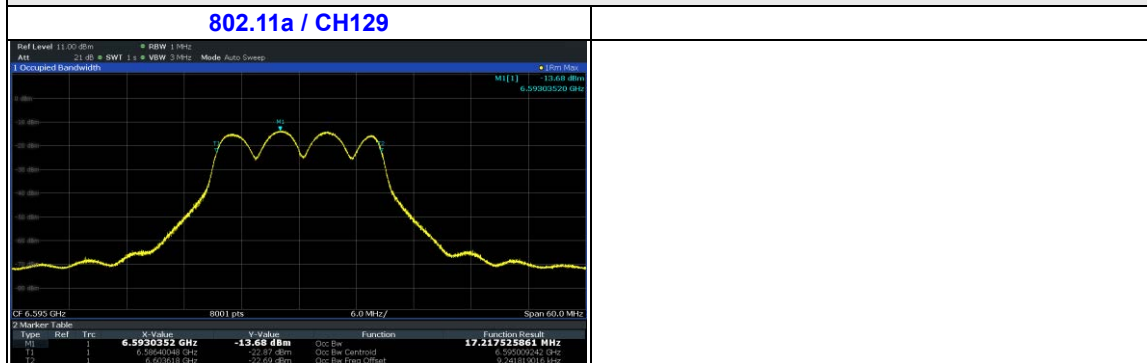
### For U-NII-7 band

| Contention Based Protocol Measurement |                         |                       |                         |                                         |                 |                    |                |                          |           |
|---------------------------------------|-------------------------|-----------------------|-------------------------|-----------------------------------------|-----------------|--------------------|----------------|--------------------------|-----------|
| Measurement Mode :                    |                         | Conducted measurement |                         | The Incumbent Signal(AWGN) Level(dBm) : |                 |                    | -82            | at the antenna connector |           |
| Device Type :                         |                         | Indoor Client         |                         | Antenna Gain(dBi) :                     |                 |                    | -14.46         |                          |           |
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number        | Channel Frequency (MHz) | AWGN Signal Frequency (MHz)             | Number of Times | Number of Detected | Detection Rate | Minimum Limit            | Pass/Fail |
| 802.11a                               | 20                      | 129                   | 6595                    | 6595                                    | 10              | 10                 | 100%           | 90%                      | Pass      |
| Result                                |                         | Complied              |                         |                                         |                 |                    |                |                          |           |

| Lowest Interference(AWGN) Level Check |                         |                |                         |                             |                       |                    |
|---------------------------------------|-------------------------|----------------|-------------------------|-----------------------------|-----------------------|--------------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Frequency (MHz) | AWGN Signal Frequency (MHz) | Threshold Level (dBm) | EUT Status         |
| 802.11a                               | 20                      | 129            | 6595                    | 6595                        | -83                   | Start transmitting |

Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.

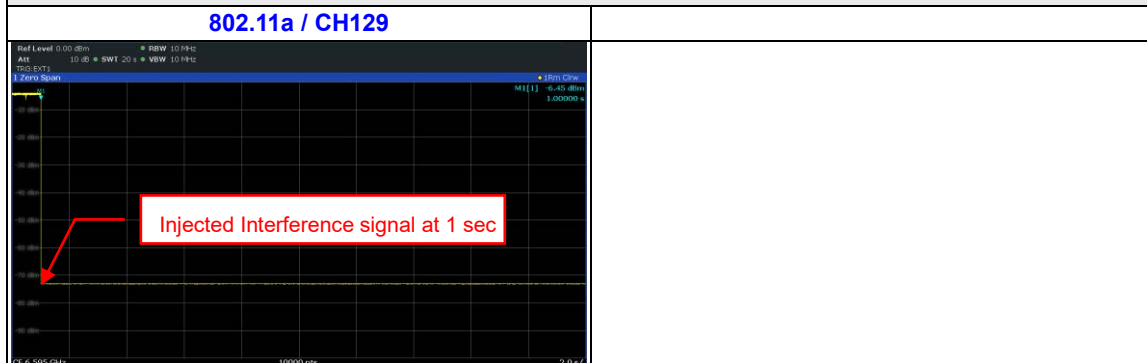
### Plots of EUT Tx waveform



### Plots of Incumbent signal(AWGN) Level



### Plots of EUT ceased transmission in the time domain





**For U-NII-8 band**

| Contention Based Protocol Measurement |                         |                       |                         |                                                |                 |                    |                |                          |           |
|---------------------------------------|-------------------------|-----------------------|-------------------------|------------------------------------------------|-----------------|--------------------|----------------|--------------------------|-----------|
| <b>Measurement Mode :</b>             |                         | Conducted measurement |                         | <b>The Incumbent Signal(AWGN) Level(dBm) :</b> |                 |                    | -82            | at the antenna connector |           |
| <b>Device Type :</b>                  |                         | Indoor Client         |                         | <b>Antenna Gain(dBi) :</b>                     |                 |                    | -14.46         |                          |           |
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number        | Channel Frequency (MHz) | AWGN Signal Frequency (MHz)                    | Number of Times | Number of Detected | Detection Rate | Minimum Limit            | Pass/Fail |
| 802.11a                               | 20                      | 193                   | 6915                    | 6915                                           | 10              | 10                 | 100%           | 90%                      | Pass      |
| <b>Result</b>                         | Complied                |                       |                         |                                                |                 |                    |                |                          |           |

| Lowest Interference(AWGN) Level Check |                         |                |                         |                             |                       |                    |
|---------------------------------------|-------------------------|----------------|-------------------------|-----------------------------|-----------------------|--------------------|
| Operation Mode                        | Channel Bandwidth (MHz) | Channel Number | Channel Frequency (MHz) | AWGN Signal Frequency (MHz) | Threshold Level (dBm) | EUT Status         |
| 802.11a                               | 20                      | 193            | 6915                    | 6915                        | -83                   | Start transmitting |

Note: Detection criterion = -62dBm + min Gain (-14.46dBi) = -76.46 dBm.

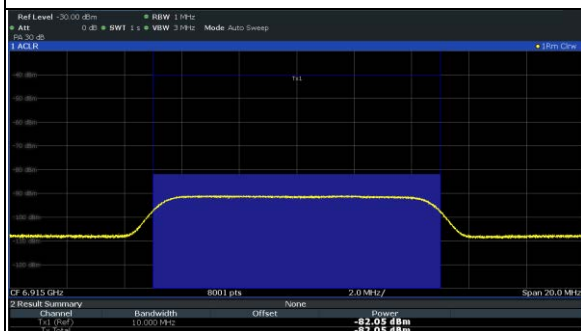
### Plots of EUT Tx waveform

802.11a / CH193



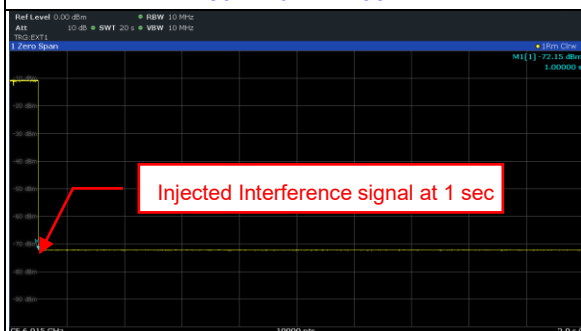
### Plots of Incumbent signal(AWGN) Level

802.11a / CH193



### Plots of EUT ceased transmission in the time domain

802.11a / CH193

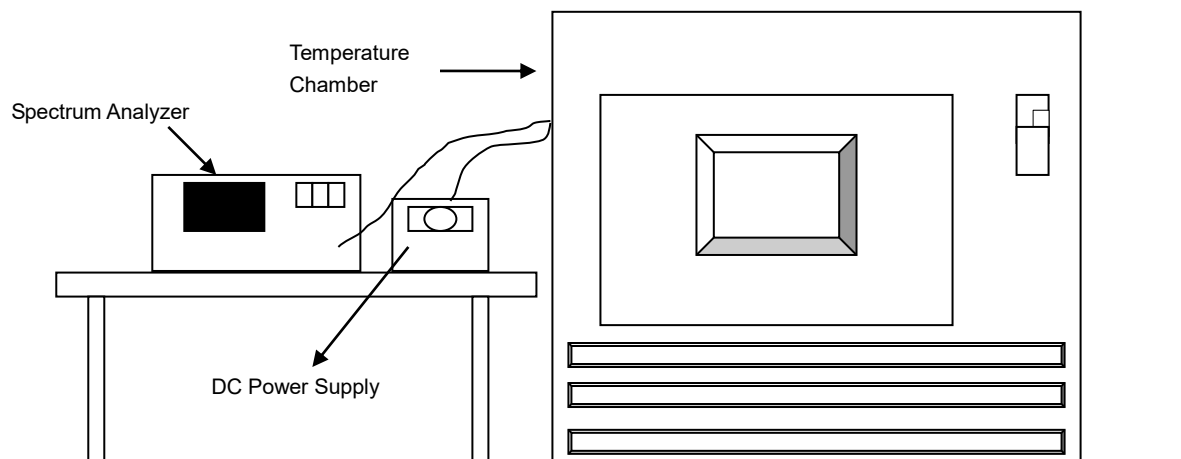


## 4.8 Frequency Stability Measurement

### 4.8.1 Limits of Frequency Stability Measurement

The frequency of the carrier signal shall be maintained within band of operation

### 4.8.2 Test Setup



### 4.8.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.8.4 Test Procedure

- The EUT was placed inside the environmental test chamber and powered by nominal DC voltage.
- Turn the EUT on and couple its output to a spectrum analyzer.
- Turn the EUT off and set the chamber to the highest temperature specified.
- Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize, turn the EUT on and measure the operating frequency after 2, 5, and 10 Minutes.
- Repeat step (d) with the temperature chamber set to the next desired temperature until measurements down to the lowest specified temperature have been completed..
- The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 Minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.

### 4.8.5 EUT Operating Condition

Set the EUT transmit at un-modulation mode to test frequency stability.

#### 4.8.6 Test Results (Mode 1)

| Frequency Stability Versus Temp. |                          |                                |           |                                |           |                                |           |                                |           |
|----------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5955MHz     |                          |                                |           |                                |           |                                |           |                                |           |
| TEMP.<br>(°C)                    | Power<br>Supply<br>(Vdc) | 0 Minute                       |           | 2 Minute                       |           | 5 Minute                       |           | 10 Minute                      |           |
|                                  |                          | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail |
| 70                               | 3.3                      | 5954.9952                      | Pass      | 5955.0002                      | Pass      | 5954.9974                      | Pass      | 5954.9972                      | Pass      |
| 60                               | 3.3                      | 5955.0073                      | Pass      | 5955.0095                      | Pass      | 5955.0072                      | Pass      | 5955.0066                      | Pass      |
| 50                               | 3.3                      | 5955.0013                      | Pass      | 5955.0052                      | Pass      | 5955.0052                      | Pass      | 5955.0012                      | Pass      |
| 40                               | 3.3                      | 5955.0183                      | Pass      | 5955.0178                      | Pass      | 5955.0216                      | Pass      | 5955.0177                      | Pass      |
| 30                               | 3.3                      | 5954.9731                      | Pass      | 5954.9729                      | Pass      | 5954.9771                      | Pass      | 5954.976                       | Pass      |
| 20                               | 3.3                      | 5954.9892                      | Pass      | 5954.9857                      | Pass      | 5954.985                       | Pass      | 5954.9845                      | Pass      |
| 10                               | 3.3                      | 5955.0225                      | Pass      | 5955.0235                      | Pass      | 5955.0228                      | Pass      | 5955.0251                      | Pass      |
| 0                                | 3.3                      | 5955.0162                      | Pass      | 5955.0147                      | Pass      | 5955.0197                      | Pass      | 5955.0182                      | Pass      |
| -10                              | 3.3                      | 5954.9889                      | Pass      | 5954.9891                      | Pass      | 5954.9858                      | Pass      | 5954.9896                      | Pass      |

| Frequency Stability Versus Voltage |                          |                                |           |                                |           |                                |           |                                |           |
|------------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5955MHz       |                          |                                |           |                                |           |                                |           |                                |           |
| TEMP.<br>(°C)                      | Power<br>Supply<br>(Vdc) | 0 Minute                       |           | 2 Minute                       |           | 5 Minute                       |           | 10 Minute                      |           |
|                                    |                          | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail | Measured<br>Frequency<br>(MHz) | Pass/Fail |
| 20                                 | 3.795                    | 5954.9986                      | Pass      | 5954.9997                      | Pass      | 5954.997                       | Pass      | 5954.9985                      | Pass      |
|                                    | 3.3                      | 5954.9892                      | Pass      | 5954.9857                      | Pass      | 5954.985                       | Pass      | 5954.9845                      | Pass      |
|                                    | 2.805                    | 5954.9825                      | Pass      | 5954.9873                      | Pass      | 5954.9825                      | Pass      | 5954.983                       | Pass      |

## **4.9 Operational Restrictions for 6 GHz U-NII Devices**

### **4.9.1 Limits of Operational Restrictions for 6 GHz U-NII Devices**

In the 5.925-7.125 GHz band, client devices, except fixed client devices, must operate under the control of a standard power access point, indoor access point or subordinate devices; Subordinate devices must operate under the control of an indoor access point.

### **4.9.2 Test Setup**

N/A

### **4.9.3 Test Instruments**

N/A

### **4.9.4 Test Procedure**

N/A.

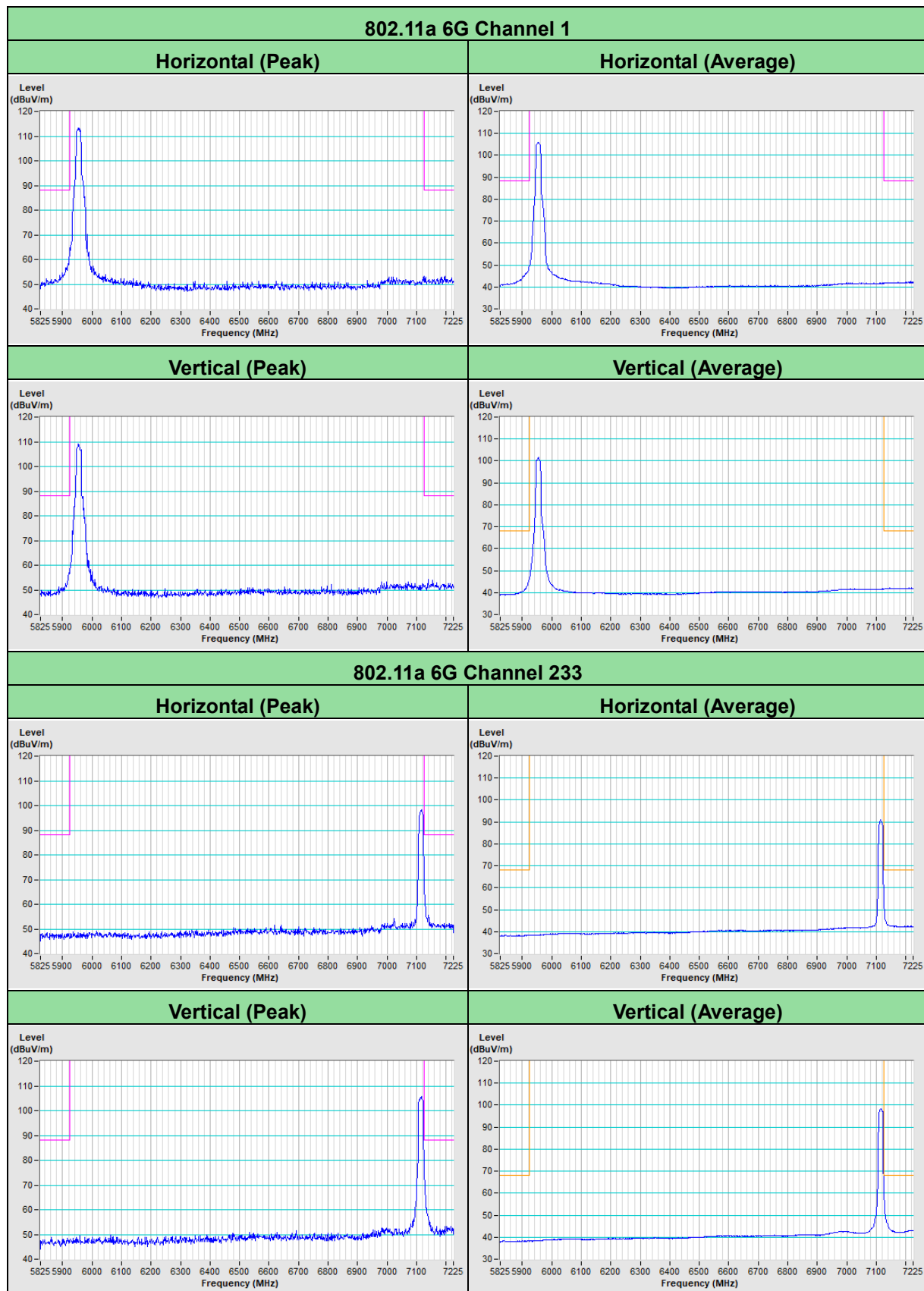
### **4.9.5 Test Results**

Device is an indoor client device under the control of a low power indoor access point. Please refer to the declaration letter exhibit supplied within this application.

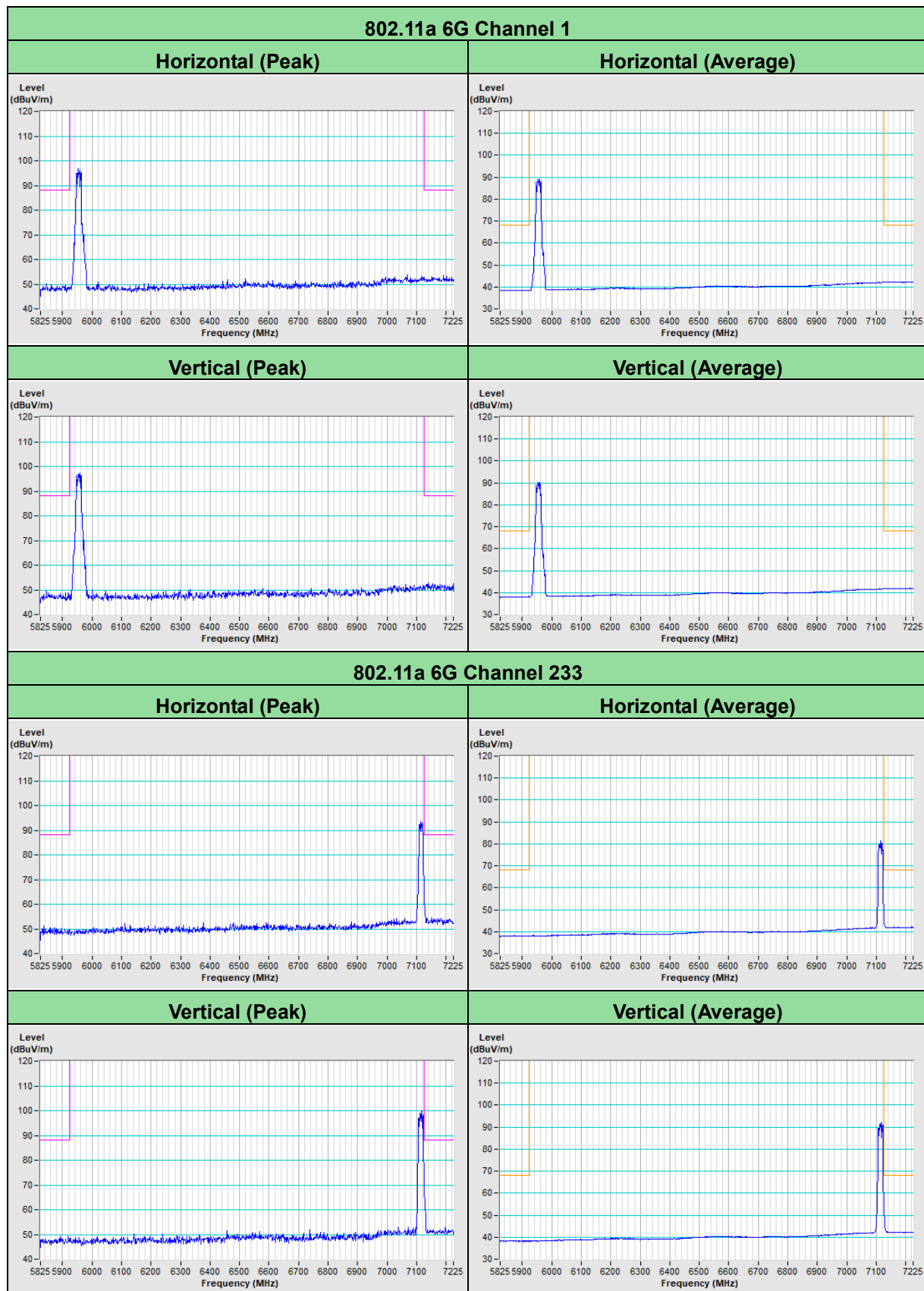
## 5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

## Annex A - Band-Edge Measurement (Mode 1)



## Annex A - Band-Edge Measurement (Mode 2)





## Appendix A– Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

--- END ---