



# FCC Part 15.407 RSS-247 ISSUE 3, August 2023 RSS-GEN Issue 5, February 2021 Amendment 2 TEST REPORT

For

# YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.

No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China

FCC ID: T2C-T44 IC: 10741A-T44W

Report Type:
Original Report

Report Producer:
Coco Lin

Report Number:
RXZ231115070RF03

Report Date:
2024-01-26

Reviewed By:
Andy Shih

Prepared By: Bay Area Compliance Laboratories Corp.
(New Taipei Laboratory)
70, Lane 169, Sec. 2, Datong Road, Xizhi Dist.,
New Taipei City 22183, Taiwan, R.O.C.
Tel: +886 (2) 2647 6898
Fax: +886 (2) 2647 6895

www.bacl.com.tw

#### **Revision History**

| Revision | No.          | Report Number    | Issue Date | Description     | Author/<br>Revised by |
|----------|--------------|------------------|------------|-----------------|-----------------------|
| 0.0      | RXZ231115070 | RXZ231115070RF03 | 2024-01-26 | Original Report | Coco Lin              |

#### **TABLE OF CONTENTS**

| 1 | Ger  | neral Information  | 5  |
|---|--|--|--|
|   | 1.1<br>1.2<br>1.3<br>1.4<br>1.5<br>1.6<br>1.7        | Product Description for Equipment under Test (EUT) Objective Test Methodology Statement Measurement Uncertainty Environmental Conditions Test Facility   | 6<br>6<br>7<br>7                             |
| 2 | Sys  | tem Test Configuration   | 8  |
|   | 2.1<br>2.2<br>2.3<br>2.4<br>2.5<br>2.6<br>2.7<br>2.8 | Description of Test Configuration  EUT Exercise Software  Equipment Modifications  Test Mode  Support Equipment List and Details  External Cable List and Details  Block Diagram of Test Setup  Duty Cycle | . 10<br>. 11<br>. 11<br>. 11<br>. 12<br>. 15 |
| 3 | Sun  | nmary of Test Results  | . 18   |
| 4 | Tes  | t Equipment List and Details   | . 19   |
| 5 | FC   | C §15.407(f), §1.1307(b)(3), §2.1091 - RF Exposure   | . 20   |
|   | 5.1  | Applicable Standard  | . 20   |
|   | 5.2  | RF Exposure Evaluation Result  |  |
| 6 | RSS  | S-102 §4 – EXPOSURE LIMIT  | . 22   |
|   | 6.1  | Applicable Standard  |  |
|   | 6.2  | RF Exposure Evaluation Result  |  |
| 7 | FC   | C §15.203 & RSS-GEN §6.8 – Antenna Requirements  | . 24   |
|   | 7.1  | Applicable Standard  |  |
| 0 | 7.2  | Antenna Information  |  |
| 8 |  | C §15.407(b)(9), §15.207(a) & RSS-GEN §8 – AC Line Conducted Emissions.  |  |
|   | 8.1<br>8.2   | Applicable Standard  |  |
|   | 8.3  | EUT Setup EMI Test Receiver Setup  |  |
|   | 8.4  | Test Procedure   |  |
|   | 8.5  | Corrected Factor & Margin Calculation  |  |
|   | 8.6  | Test Results   |  |
| 9 | FC   | C §15.209, §15.205, §15.407(b) & RSS-247 §6.2, RSS-GEN §8.9, RSS-GEN §8  | .10  |
| _ | Spurio   | ous Emissions  | . 28   |
|   | 9.1  | Applicable Standard  | . 28   |
|   | 9.2  | EUT Setup  |  |
|   | 9.3  | EMI Test Receiver & Spectrum Analyzer Setup  |  |
|   | 9.4  | Test Procedure   | . 31   |
|   | 9.5  | Corrected Factor & Margin Calculation  | . 32   |

| Bay Area | Compliance Laboratories Corp. (New Taipei Laboratory) | No.: RXZ231115070RF03 |
|----------|---|-----------------------|
| 9.6      | Test Results  | 33                    |
| 10 RS    | S-247 §6.2.1.2 – 26dB Attenuated Below The Channel Po | wer 57                |
| 10.1     | Applicable Standard                                   | 57                    |
| 10.2     | Test Procedure  |                       |
| 10.3     | Test Results  |                       |
| 11 FC    | C §15.407(a)(e) & RSS-247 §6.2, RSS-GEN §6.7 – Emissi | on Bandwidth And      |
| Occupi   | ed Bandwidth  | 63                    |
| 11.1     | Applicable Standard                                   | 63                    |
| 11.2     | Test Procedure  |                       |
| 11.3     | Test Results  | 65                    |
| 12 FC    | C §15.407(a) & RSS-247 §6.2 – Maximum Output Power    |                       |
| 12.1     | Applicable Standard                                   |                       |
| 12.2     | Test Procedure  |                       |
| 12.3     | Test Results  | 107                   |
| 13 FC    | C §15.407(a) & RSS-247 §6.2 – Power Spectral Density  | 109                   |
| 13.1     | Applicable Standard                                   | 109                   |
| 13.2     | Test Procedure  |                       |
| 13.3     | Test Results  | 111                   |
| 14 RS    | S-247 §6.4 – Additional requirements                  |                       |
| 14.1     | Applicable Standard                                   | 132                   |
| 14.2     | Judgment  |                       |

#### 1 General Information

#### 1.1 Product Description for Equipment under Test (EUT)

| A1' 4                              | YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD.   |  |
|------------------------------------|---|--|
| Applicant                          | No.666 Hu'an Rd, Huli District Xiamen City, Fujian, P.R. China  |  |
| Brand(Trade) Name Yealink          |   |  |
| Product (Equipment) / PMN          | Ultra-elegant Gigabit IP Phone  |  |
| Main Model Name                    | SIP-T44W  |  |
| HVIN                               | T44W  |  |
|                                    | 5150 MHz ~ 5250 MHz, 5250 MHz ~ 5350 MHz  |  |
| Frequency Range                    | 5470 MHz ~ 5725 MHz, 5725 MHz ~ 5850 MHz  |  |
|                                    | Note: frequency range 5600-5650MHz can't be used in Canada  |  |
|                                    | 5150-5250 MHz: 16.33 dBm  |  |
| Maximum Conducted                  | 5250-5350 MHz: 16.46 dBm  |  |
| Average Output Power               | 5470-5725 MHz: 16.16 dBm  |  |
|                                    | 5725-5850 MHz: 15.88 dBm  |  |
|                                    | IEEE 802.11a Mode: OFDM   |  |
| Modulation Technique               | IEEE 802.11n HT20/ ac VHT20 Mode: OFDM  |  |
| Wodulation Technique               | IEEE 802.11n HT40/ ac VHT40 Mode: OFDM  |  |
|                                    | IEEE 802.11ac VHT80 Mode: OFDM  |  |
| Power Operation<br>(Voltage Range) | <ul> <li>         \[             \] AC 120V/60Hz         \[             \] Adapter I/P: 100-240V 50/60Hz 0.5A, O/P: 5Vdc, 2.0A         \[             \] By AC Power Cord         \[             \] PoE: DC 48V     </li> </ul> |  |
| Received Date                      | 2023/11/16  |  |
| Date of Test                       | 2023/11/21 ~ 2024/01/25   |  |

<sup>\*</sup>All measurement and test data in this report was gathered from production sample serial number: RXZ231115070-1(Assigned by BACL, New Taipei Laboratory).

#### 1.2 Objective

This report is prepared on behalf of *YEALINK(XIAMEN) NETWORK TECHNOLOGY CO.,LTD*. in accordance with Part 2, Subpart J, Part 15, Subparts A, and E of the Federal Communication Commission's rules and RSS-247 Issue 3, August 2023 and RSS-GEN Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

No.: RXZ231115070RF03

#### 1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices. And RSS-247 Issue 3, August 2023 and RSS-GEN Issue 5, February 2021 Amendment 2 of the Innovation, Science and Economic Development Canada.

KDB 789033 D02 General UNII Test Procedures New Rules v02r01

#### 1.4 Statement

Decision Rule: No, (The test results do not include MU judgment)

It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory).

Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. The determination of the test results does not require consideration of the uncertainty of the measurement, unless the assessment is required by customer agreement, regulation or standard document specification.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is not responsible for the authenticity of the information provided by the applicant that affects the test results.

#### 1.5 Measurement Uncertainty

| Parameter                     |               | Uncertainty  |
|-------------------------------|---------------|--------------|
| AC Mains                      |               | +/- 2.53 dB  |
| RF output power, conducted    |               | +/- 3.74 dB  |
| Power Spectral Density, cond  | lucted        | +/- 0.62 dBm |
| Occupied Bandwidth            |               | +/- 0.09 %   |
| Unwanted Emissions, conducted |               | +/- 1.13 dBm |
|                               | 30 MHz~1 GHz  | +/- 4.99 dB  |
| Emissions, radiated           | 1 GHz~18 GHz  | +/- 7.56 dB  |
|                               | 18 GHz~40 GHz | +/- 5.06 dB  |
| Temperature                   |               | +/- 0.79 °C  |
| Humidity                      |               | +/- 0.44 %   |

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

#### 1.6 Environmental Conditions

| Test Site                                    | Test Date             | Temperature (°C) | Relative<br>Humidity<br>(%) | ATM Pressure (hPa) | Test<br>Engineer |
|--|-----------------------|------------------|-----------------------------|--------------------|------------------|
| AC Line Conducted<br>Emissions               | 2023/12/08            | 19.9             | 67                          | 1010               | Jing             |
| Radiation Spurious<br>Emissions              | 2023/11/25~2023/12/15 | 22.2~24.3        | 62~67                       | 1010               | Aaron            |
| 26dB attenuated below the channel power      | 2023/12/22            | 23.1             | 51                          | 1010               | Jing             |
| Emission Bandwidth And<br>Occupied Bandwidth | 2023/11/21~2024/1/24  | 20.4~25.1        | 52~57                       | 1010               | Jing             |
| Maximum Output Power                         | 2023/11/21~2024/1/24  | 20.4~23.8        | 52                          | 1010               | Jing             |
| Power Spectral Density                       | 2023/11/21~2024/1/25  | 20.4~25.1        | 52~57                       | 1010               | Jing             |

#### 1.7 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) to collect test data is located on

70, Lane 169, Sec. 2, Datong Road, Xizhi Dist., New Taipei City 22183, Taiwan, R.O.C.

Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3732) and the FCC designation No.TW3732 under the Mutual Recognition Agreement (MRA) in FCC Test.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: TW3732.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 7 of 133

#### 2 System Test Configuration

#### 2.1 Description of Test Configuration

The system was configured for testing in an engineering mode, which is provided by manufacturer. The system support 802.11a/n ht20/n ht40/ac vht20/ac vht40/ac vht80, the 802.11n ht20/ht40 were reduced since the identical parameters with 802.11ac vht20 and vht40.

No.: RXZ231115070RF03

#### For 5150 ~ 5250MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 36      | 5180               | 44      | 5220               |
| 40      | 5200               | 48      | 5240               |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 38      | 5190               | 46      | 5230               |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency<br>(MHz) |
|---------|--------------------|
| 42      | 5210               |

<sup>802.11</sup>a/n20/ac20 mode Channel 36, 40, 48 were tested.

#### For 5250 ~ 5350MHz

4 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 52      | 5260               | 60      | 5300               |
| 56      | 5280               | 64      | 5320               |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 54      | 5270               | 62      | 5310               |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency<br>(MHz) |  |
|---------|--------------------|--|
| 58      | 5290               |  |

802.11a/n20/ac20 mode Channel 52, 60, 64 were tested.

802.11n40/ac40 mode Channel 54, 62 were tested.

802.11ac80 mode Channel 58 was tested.

<sup>802.11</sup>n40/ac40 mode Channel 38, 46 were tested.

<sup>802.11</sup>ac80 mode Channel 42 was tested.

#### For 5470 ~ 5725MHz

Note: frequency range 5600-5650MHz can't be used in Canada

11 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | hannel Frequency (MHz) Channel |     | Frequency<br>(MHz) |
|---------|--------------------------------|-----|--------------------|
| 100     | 5500                           | 124 | 5620               |
| 104     | 5520                           | 128 | 5640               |
| 108     | 5540                           | 132 | 5660               |
| 112     | 5560                           | 136 | 5680               |
| 116     | 5580                           | 140 | 5700               |
| 120     | 5600                           | /   | /                  |

No.: RXZ231115070RF03

5 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 102     | 5510               | 126     | 5630               |
| 110     | 5550               | 134     | 5670               |
| 118     | 5590               | /       | /                  |

2 channels are provided for 802.11ac (VHT80):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 106     | 5530               | 122     | 5610               |

802.11a/n20/ac20 mode Channel 100, 116, 140 were tested.

802.11n40/ac40 mode Channel 102, 110, 134 were tested.

802.11ac80 mode Channel 106, 122 was tested.

#### For 5725 ~ 5825MHz:

5 channels are provided for 802.11a, 802.11n (HT20), 802.11ac (VHT20):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 149     | 5745               | 161     | 5805               |
| 153     | 5765               | 165     | 5825               |
| 157     | 5785               | /       | /                  |

2 channels are provided for 802.11n (HT40), 802.11ac (VHT40):

| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
|---------|--------------------|---------|--------------------|
| 151     | 5755               | 159     | 5795               |

1 channel is provided for 802.11ac (VHT80):

| Channel | Frequency<br>(MHz) |
|---------|--------------------|
| 155     | 5775               |

802.11a/n20/ac20 mode Channel 149, 157, 165 were tested.

802.11n40/ac40 mode Channel 151, 159 were tested.

802.11ac80 mode Channel 155 was tested.

#### 2.2 EUT Exercise Software

The system was configured for testing in an engineering mode, which is provided by manufacturer. The software was used "AuthenticTool\_1.2.21.0".

No.: RXZ231115070RF03

| UNII Band  | Mode                    | Channel | Frequency<br>(MHz) | Power setting |
|------------|-------------------------|---------|--------------------|---------------|
|            |                         | 36      | 5180               | 16            |
| UNII-1     |                         | 40      | 5200               | 16            |
|            |                         | 48      | 5240               | 16            |
|            |                         | 52      | 5260               | 16            |
| UNII-2A    |                         | 60      | 5300               | 16            |
|            | 802.11a                 | 64      | 5320               | 16            |
|            | 802.11a                 | 100     | 5500               | 15            |
| UNII-2C    |                         | 116     | 5580               | 16            |
|            |                         | 140     | 5700               | 16            |
|            |                         | 149     | 5745               | 16            |
| UNII-3     |                         | 157     | 5785               | 16            |
|            |                         | 165     | 5825               | 16            |
|            |                         | 36      | 5180               | 16            |
| UNII-1     |                         | 40      | 5200               | 16            |
|            |                         | 48      | 5240               | 16            |
|            |                         | 52      | 5260               | 16            |
| UNII-2A    | 802.11n HT20 / ac VHT20 | 60      | 5300               | 16            |
|            |                         | 64      | 5320               | 16            |
|            | 802.11ft H1207 ac VH120 | 100     | 5500               | 16            |
| UNII-2C    |                         | 116     | 5580               | 16            |
|            |                         | 140     | 5700               | 15            |
|            |                         | 149     | 5745               | 16            |
| UNII-3     |                         | 157     | 5785               | 16            |
|            |                         | 165     | 5825               | 16            |
| LINIII 1   |                         | 38      | 5190               | 16            |
| UNII-1     |                         | 46      | 5230               | 16            |
| LINIII 2 A |                         | 54      | 5270               | 16            |
| UNII-2A    |                         | 62      | 5310               | 15            |
|            | 802.11n HT40 / ac VHT40 | 102     | 5510               | 16            |
| UNII-2C    |                         | 110     | 5550               | 16            |
|            |                         | 134     | 5670               | 16            |
| IINIII 2   | Γ                       | 151     | 5755               | 16            |
| UNII-3     |                         | 159     | 5795               | 16            |
| UNII-1     |                         | 42      | 5210               | 14            |
| UNII-2A    | ] Γ                     | 58      | 5290               | 14            |
| LINIL 2C   | 802.11ac VHT80          | 106     | 5530               | 12            |
| UNII-2C    | j                       | 122     | 5610               | 16            |
| UNII-3     | Γ                       | 155     | 5775               | 16            |

The worst case data rates are as follows:

802.11a: 6Mbps

802.11ac VHT20: MCS0802.11ac VHT40: MCS0802.11ac VHT80: MCS0

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 10 of 133

#### 2.3 Equipment Modifications

No modification was made to the EUT.

#### 2.4 Test Mode

Pre-scan

AC Line Conducted Emissions and Radiated Spurious Emissions

Mode 1: SIP-T44W + Adapter (YLPS052000E1-US)

Mode 2: SIP-T44W + Adapter (YLPS052000C1-US)

Mode 3: SIP-T44W + Adapter (YLPS052000B1-US)

Mode 4: SIP-T44W + PoE

Worst case is the SIP-T44W + Adapter (YLPS052000E1-US)

Mode 1: SIP-T44W + Adapter (YLPS052000E1-US) tested all measure item.

Mode 4: SIP-T44W + PoE test Below 1GHz Radiated Spurious Emissions and AC Line Conducted Emissions.

No.: RXZ231115070RF03

#### 2.5 Support Equipment List and Details

| Description | Manufacturer | Model Number    |
|-------------|--------------|-----------------|
| Adapter     | Yealink      | YLPS052000B1-US |
| Adapter     | Yealink      | YLPS052000C1-US |
| Adapter     | Yealink      | YLPS052000E1-US |
| NB          | DELL         | E6410           |
| AP Router   | NETGEAR      | R7800           |
| Handset     | Yealink      | N/A             |
| Handset     | Yealink      | N/A             |
| USB Storage | Transcend    | 8GB             |
| USB Storage | Transcend    | 8GB             |
| POE Adapter | Cisco        | SB-PWR-INJ2     |

#### 2.6 External Cable List and Details

| Description | Manufacturer | Model Number |
|-------------|--------------|--------------|
| RJ-45 Cable | BACL         | 8m           |
| RJ-45 Cable | BACL         | 8m           |
| RJ-11 Cable | BACL         | 0.5m         |
| RJ-11 Cable | BACL         | 0.5m         |

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 11 of 133

#### 2.7 Block Diagram of Test Setup

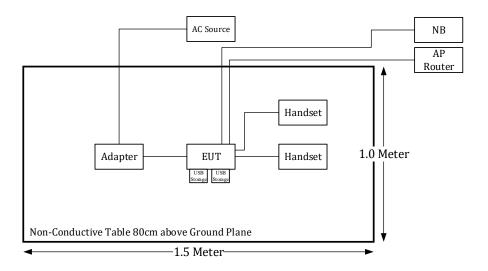
See test photographs attached in setup photos for the actual connections between EUT and support equipment.

No.: RXZ231115070RF03

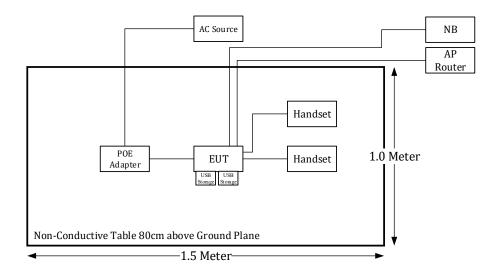
#### **Radiation:**

Below 1GHz

Adapter Mode:

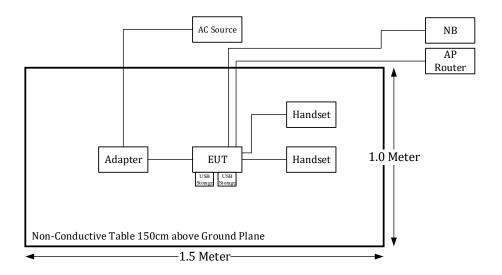


#### PoE Mode:

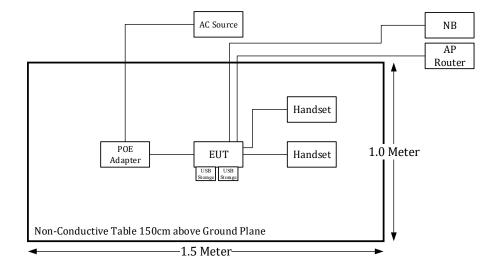


Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 12 of 133

Above 1GHz: Adapter Mode:

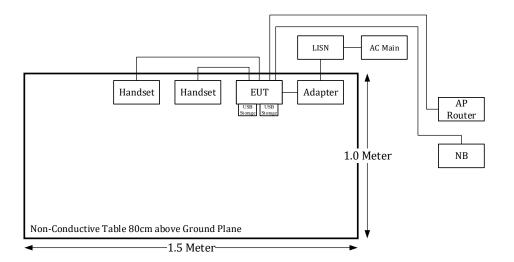


#### PoE Mode:

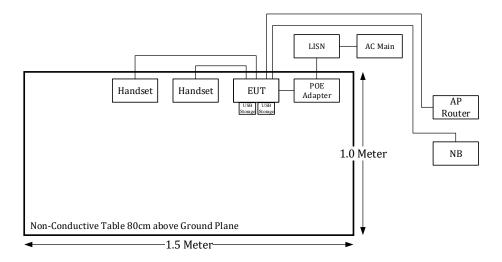


#### **Conduction:**

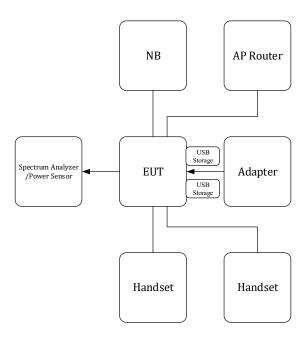
Adapter Mode:



#### PoE Mode:



#### **Conducted:**



No.: RXZ231115070RF03

#### 2.8 Duty Cycle

The duty cycle as below:

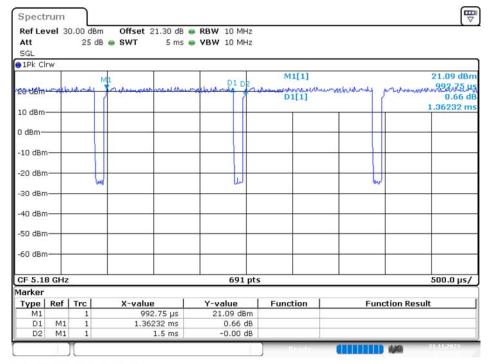
| Radio Mode  | On Time (ms) | Off Time<br>(ms) | Duty Cycle (%) | Duty Cycle Correction Factor (dB) | 1/T<br>(kHz) | VBW Setting (kHz) |
|-------------|--------------|------------------|----------------|-----------------------------------|--------------|-------------------|
| 802.11a     | 1.36232      | 0.13768          | 91             | 0.41                              | 0.73         | 1.0               |
| 802.11ac 20 | 1.28986      | 0.13768          | 90             | 0.46                              | 0.78         | 1.0               |
| 802.11ac 40 | 0.63043      | 0.12319          | 84             | 0.76                              | 1.59         | 2.0               |
| 802.11ac 80 | 0.31159      | 0.12319          | 72             | 1.43                              | 3.21         | 5.0               |

Note: Duty Cycle Correction Factor = 10\*log(1/duty cycle)

Please refer to the following plots.

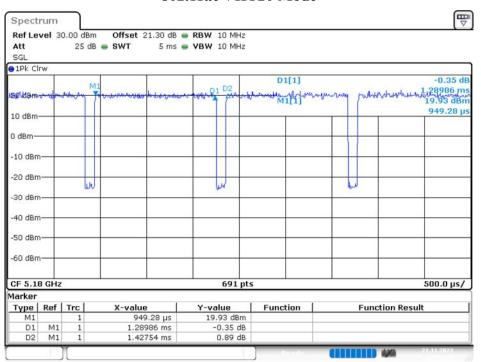
#### 802.11a Mode

No.: RXZ231115070RF03



Date: 21.NOV.2023 11:19:24

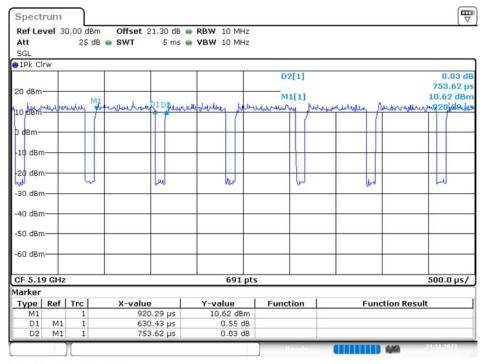
#### **802.11ac VHT20 Mode**



Date: 21.Nov.2023 11:30:52

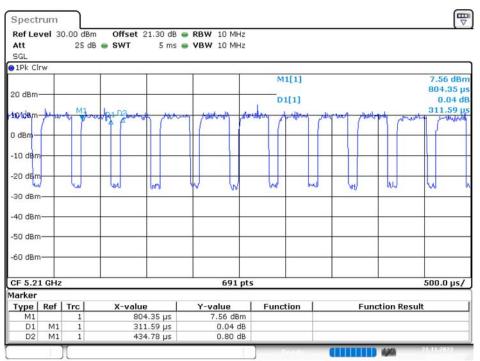
#### **802.11ac VHT40 Mode**

No.: RXZ231115070RF03



Date: 21.NOV.2023 11:57:45

#### **802.11ac VHT80 Mode**



Date: 21.Nov.2023 12:02:12

#### 3 Summary of Test Results

| Standard(s) Section   | Description of Test                     | Results    |
|---|---|------------|
| FCC §15.407(f), §1.1307(b)(3), §2.1091  | RF Exposure                             | Compliance |
| RSS-102 §4  | Exposure Limit                          | Compliance |
| §15.203<br>RSS-GEN §6.8   | Antenna Requirement                     | Compliance |
| §15.407(b)(9) & §15.207(a)<br>RSS- GEN §8.8                                     | AC Line Conducted Emissions             | Compliance |
| §15.205 & §15.209 & §15.407(b)<br>RSS-247 §6.2<br>RSS-GEN §8.9<br>RSS-GEN §8.10 | Unwanted Emission                       | Compliance |
| RSS-247 §6.2.1.2  | 26dB Attenuated Below The Channel Power | Compliance |
| §15.407(a)(e)<br>RSS-247 §6.2<br>RSS- GEN §6.7                                  | Emission Bandwidth                      | Compliance |
| §15.407(a)<br>RSS-247 §6.2  | Conducted Transmitter Output Power      | Compliance |
| §15.407(a)<br>RSS-247 §6.2  | Power Spectral Density                  | Compliance |
| RSS-247 §6.4  | Additional requirements                 | Compliance |

#### 4 Test Equipment List and Details

| Description                              | Manufacturer                         | Model                        | Serial<br>Number     | Calibration  Date | Calibration Due Date |
|--|--------------------------------------|------------------------------|----------------------|-------------------|----------------------|
|  | AC                                   | Line Conduction Roo          |                      | 2                 | Due Due              |
| LISN                                     | Rohde & Schwarz                      | ENV216                       | 101612               | 2023/2/2          | 2024/2/1             |
| EMI Test<br>Receiver                     | Rohde & Schwarz                      | ESW8                         | 100947               | 2023/5/22         | 2024/5/20            |
| Pulse Limiter                            | Rohde & Schwarz                      | ESH3Z2                       | TXZEM104             | 2023/5/18         | 2024/5/16            |
| RF Cable                                 | EMEC                                 | EM-CB5D                      | 1                    | 2023/6/6          | 2024/6/4             |
| Software                                 | AUDIX                                | E3                           | V9.150826k           | N.C.R             | N.C.R                |
|  |                                      | Radiation 3M Room            | (966-A)              |                   |                      |
| Bilog Antenna<br>with 6 dB<br>Attenuator | SUNOL<br>SCIENCES &<br>MINI-CIRCUITS | JB6/UNAT-6+                  | A050115/1554<br>2_01 | 2023/2/2          | 2024/2/1             |
| Horn Antenna                             | EMCO                                 | SAS-571                      | 1020                 | 2023/5/18         | 2024/5/17            |
| Horn Antenna                             | ETS-Lindgren                         | 3116                         | 62638                | 2023/8/25         | 2024/8/24            |
| Preamplifier                             | Sonoma                               | 310N                         | 130602               | 2023/6/16         | 2024/6/15            |
| Preamplifier                             | Channel                              | ERA-100M-18G-<br>01D1748     | EC2300051            | 2023/04/01        | 2024/03/31           |
| Microware<br>Preamplifier                | EM Electronics<br>Corporation        | EM18G40G                     | 60656                | 2023/1/6          | 2024/1/5             |
| Spectrum<br>Analyzer                     | Rohde & Schwarz                      | FSV40                        | 101435               | 2023/2/1          | 2024/1/31            |
| EMI Test<br>Receiver                     | Rohde & Schwarz                      | ESR3                         | 102099               | 2023/6/16         | 2024/6/15            |
| Micro flex Cable                         | UTIFLEX                              | UFB197C-1-<br>2362-70U-70U   | 225757-001           | 2023/1/24         | 2024/1/23            |
| Coaxial Cable                            | COMMATE                              | PEWC                         | 8Dr                  | 2022/12/24        | 2023/12/23           |
| Coaxial Cable                            | UTIFLEX                              | UFB311A-Q-<br>1440-300300    | 220490-006           | 2023/1/24         | 2024/1/23            |
| Coaxial Cable                            | JUNFLON                              | J12J102248-00-<br>B-5        | AUG-07-15-<br>044    | 2022/12/24        | 2023/12/23           |
| Cable                                    | EMC                                  | EMC105-SM-<br>SM-10000       | 201003               | 2023/1/24         | 2024/1/23            |
| Coaxial Cable                            | ROSNOL                               | K1K50-UP0264-<br>K1K50-450CM | 160309-1             | 2023/1/24         | 2024/1/23            |
| Coaxial Cable                            | ROSNOL                               | K1K50-UP0264-<br>K1K50-50CM  | 15120-1              | 2023/2/2          | 2024/2/1             |
| Attenuator                               | MCL                                  | BW-S10W5+                    | 605                  | 2023/1/18         | 2024/1/17            |
| Band-stop filter                         | SinoSciTe                            | BSF5150-5850<br>MN-0899-002  | 001                  | 2023/10/20        | 2024/10/19           |
| High-pass filter                         | XINGBOKEJI                           | XBLBQ-GTA29                  | 200121-3-26          | 2023/10/20        | 2024/10/19           |
| Software                                 | AUDIX                                | E3                           | 18621a               | N.C.R             | N.C.R                |
| 20111111                                 | 1100111                              | Conducted Roo                |                      | 1                 | 1                    |
| Spectrum<br>Analyzer                     | Rohde & Schwarz                      | FSV40                        | 101140               | 2023/2/10         | 2024/2/9             |
| Cable                                    | UTIFLEX                              | UFA210A                      | 9435                 | 2023/10/2         | 2024/9/30            |
| Power Sensor                             | KEYSIGHT                             | U2021XA                      | MY54080018           | 2023/2/2          | 2024/2/1             |
| Attenuator                               | MCL                                  | BW-S10W5+                    | 1419                 | 2023/2/1          | 2024/1/31            |

No.: RXZ231115070RF03

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 19 of 133

<sup>\*</sup>Statement of Traceability: BACL Corp. attests that all of the calibrations on the equipment items listed above were traceable to the SI System of Units via the R.O.C. Center for Measurement Standards of the Electronics Testing Center, Taiwan (ETC) or to another internationally recognized National Metrology Institute (NMI), and were compliant with the current Taiwan Accreditation Foundation (TAF) requirements.

#### 5 FCC §15.407(f), §1.1307(b)(3), §2.1091 – RF Exposure

#### 5.1 Applicable Standard

According to subpart 15.407(f) and subpart §2.1091, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

No.: RXZ231115070RF03

For single RF sources (*i.e.*, any single fixed RF source, mobile device, or portable device, as defined in paragraph (b)(2) of this section): A single RF source is exempt if:

- (A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph (b)(3)(ii)(A) of this section. Medical implant devices may only use this exemption and that in paragraph (b)(3)(ii)(A);
- (B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold *Pth* (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). *Pth* is given by:

$$P_{th} \; (\text{mW}) = \begin{cases} ERP_{20\;cm} (d/20\;\text{cm})^x & d \leq 20\;\text{cm} \\ ERP_{20\;cm} & 20\;\text{cm} < d \leq 40\;\text{cm} \end{cases}$$
 Where 
$$x = -\log_{10} \left(\frac{60}{ERP_{20\;cm}\sqrt{f}}\right) \; \text{and} \; f \; \text{is} \; \text{in} \; \text{GHz};$$
 and 
$$ERP_{20\;cm} \; (\text{mW}) = \begin{cases} 2040f & 0.3\;\text{GHz} \leq f < 1.5\;\text{GHz} \\ 3060 & 1.5\;\text{GHz} \leq f \leq 6\;\text{GHz} \end{cases}$$

(C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least  $\lambda/2\pi$ , where  $\lambda$  is the freespace operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of  $\lambda/4$  or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

| Table 1 to § 1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine<br>Environmental Evaluation |  |  |  |  |  |
|--|--|--|--|--|--|
| RF Source Threshold ERP (watts)  |  |  |  |  |  |
| 0.3-1.34   | 1,920 R <sup>2</sup> .                 |  |  |  |  |
| 1.34-30  | 3,450 R <sup>2</sup> /f <sup>2</sup> . |  |  |  |  |
| 30-300   | 3.83 R <sup>2</sup> .                  |  |  |  |  |
| 300-1,500 0.0128 R <sup>2</sup> f.   |  |  |  |  |  |
| 1,500-100,000  | 19.2R <sup>2</sup> .                   |  |  |  |  |

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 20 of 133

For multiple RF sources: Multiple RF sources are exempt if:

in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation:

$$\sum_{i=1}^{a} \frac{P_i}{P_{th,i}} + \sum_{j=1}^{b} \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^{c} \frac{Evaluated_k}{Exposure\ Limit_k} \le 1$$

#### 5.2 RF Exposure Evaluation Result

Project info

| Band        | Freq<br>(MHz) | Tune-up Power<br>(dBm) | Ant Gain<br>(dBi) | Distances<br>(mm) | Tune-up Power<br>(mW) | ERP<br>(dBm) | ERP<br>(mW) |
|-------------|---------------|------------------------|-------------------|-------------------|-----------------------|--------------|-------------|
| BT          | 2402-2480     | 11                     | 4.94              | 200               | 12.59                 | 13.79        | 23.93       |
| WIFI 2.4GHz | 2412-2462     | 19                     | 4.94              | 200               | 79.43                 | 21.79        | 151.01      |
| WIFI 5GHz   | 5180-5825     | 16.5                   | 3.43              | 200               | 44.67                 | 17.78        | 59.98       |

§ 1.1307(b)(3)(i)(A) method is not applicable.

#### § 1.1307(b)(3)(i)(C)

| Band        | Freq<br>(MHz) | λ/2π<br>(mm) | Distances applies | ERP Limit<br>(mW) | Result<br>Option C |
|-------------|---------------|--------------|-------------------|-------------------|--------------------|
| BT          | 2402          | 19.88        | apply             | 768.00            | exempt             |
| WIFI 2.4GHz | 2412          | 19.8         | apply             | 768.00            | exempt             |
| WIFI 5GHz   | 5180          | 9.22         | apply             | 768.00            | exempt             |

The minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates

ERP (watts) is no more than the calculated value prescribed for that frequency

R must be at least  $\lambda / 2\pi$ 

 $\lambda$  is the free-space operating wavelength in meters

The BT and Wi-Fi can transmit simultaneously.

Simultaneous transmitting consideration (worst case):

The ratio= $ERP_{BT}/limit + ERP_{Wi-Fi}/limit=23.93/768+151.01/768=0.23 < 1.0$ 

So simultaneous exposure is compliant.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 21 of 133

#### 6 RSS-102 §4 – EXPOSURE LIMIT

#### 6.1 Applicable Standard

According to RSS-102 §4:

For the purpose of this standard, Industry Canada has adopted the SAR and RF field strength limits established in Health Canada's RF exposure guideline, Safety Code 6.

No.: RXZ231115070RF03

| Table 4: RF Field Strength Limits for Devices Used by the General Public (Uncontrolled Environment) |                             |  |                             |                               |  |
|---|-----------------------------|--|-----------------------------|-------------------------------|--|
| Frequency Range<br>(MHz)  | Electric Field<br>(V/m rms) | Magnetic Field<br>(A/m rms)              | Power Density<br>(W/m²)     | Reference Period<br>(minutes) |  |
| 0.003-10 <sup>21</sup>  | 83                          | 90                                       | -                           | Instantaneous*                |  |
| 0.1-10  | -                           | 0.73/ f                                  | -                           | 6**                           |  |
| 1.1-10  | 87/ ƒ <sup>0.5</sup>        | -  | -                           | 6**                           |  |
| 10-20   | 27.46                       | 0.0728                                   | 2                           | 6                             |  |
| 20-48   | 58.07/ f <sup>0.25</sup>    | 0.1540/ f <sup>0.25</sup>                | 8.944/ f <sup>0.5</sup>     | 6                             |  |
| 48-300  | 22.06                       | 0.05852                                  | 1.291                       | 6                             |  |
| 300-6000  | 3.142 f <sup>0.3417</sup>   | 0.008335 f <sup>0.3417</sup>             | 0.02619 f <sup>0.6834</sup> | 6                             |  |
| 6000-15000  | 61.4                        | 0.163                                    | 10                          | 6                             |  |
| 15000-150000  | 61.4                        | 0.163                                    | 10                          | 616000/ f <sup>1.2</sup>      |  |
| 150000-300000   | 0.158 f <sup>0.5</sup>      | $4.21 \times 10^{-4}  \mathrm{f}^{ 0.5}$ | 6.67 x 10 <sup>-5</sup> f   | 616000/f <sup>1.2</sup>       |  |

**Note:** f is frequency in MHz.

#### Calculated Formulary:

 $S = PG/4 \pi R^2 = power density (in appropriate units, e.g. W/m^2);$ 

P = power input to the antenna (in appropriate units, e.g., W);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., m);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_{i} \frac{S_{i}}{S_{Limit,i}} \le 1$$

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 22 of 133

<sup>\*</sup> Based on nerve stimulation (NS).

<sup>\*\*</sup> Based on specific absorption rate (SAR).

#### **6.2** RF Exposure Evaluation Result

| Frequency<br>Mode Range |           | Ante  | nna Gain  |       | e-up<br>ver | Distance |           | RF Exp.<br>Limit |
|-------------------------|-----------|-------|-----------|-------|-------------|----------|-----------|------------------|
|                         | (MHz)     | (dBi) | (numeric) | (dBm) | (W)         | (mm)     | $(W/m^2)$ | $(W/m^2)$        |
| BT                      | 2402-2480 | 4.94  | 3.119     | 11    | 0.013       | 200      | 0.0781    | 5.35             |
| WIFI 2.4GHz             | 2412-2462 | 4.94  | 3.119     | 19    | 0.079       | 200      | 0.4929    | 5.37             |
| WIFI 5GHz               | 5180-5825 | 3.43  | 2.203     | 16.5  | 0.045       | 200      | 0.1958    | 9.05             |

The BT and Wi-Fi can transmit simultaneously.

Simultaneous transmitting consideration (worst case):

The ratio=MPE<sub>BT</sub>/limit + MPE<sub>Wi-Fi</sub>/limit=0.0781/5.35+0.4929/5.37=0.11 < 1.0

So simultaneous exposure is compliant.

Result: The device compliant the MPE-Based Exemption at 20cm distances.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 23 of 133

#### 7 FCC §15.203 & RSS-GEN §6.8 – Antenna Requirements

#### 7.1 Applicable Standard

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used.

No.: RXZ231115070RF03

According to RSS-Gen §6.8, The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. fo transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.

For expediting the testing, measurements may be performed using only the antenna with highest gain of each combination of transmitter and antenna type, with the transmitter output power set at the maximum level. However, the transmitter shall comply with the applicable requirements under all operational conditions and when in combination with any type of antenna from the list provided in the test report (and in the notice to be included in the user manual, provided below).

When measurements at the antenna port are used to determine the RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna's manufacturer. The test report shall state the RF power, output power setting and spurious emission measurements with each antenna type that is used with the transmitter being tested. For licence-exempt equipment with detachable antennas, the user manual shall also contain the following notice in a conspicuous location:

This radio transmitter [enter the device's ISED certification number] has been approved by Innovation, Science and Economic Development Canada to operate with the antenna types listed below, with the maximum permissible gain indicated. Antenna types not included in this list that have a gain greater than the maximum gain indicated for any type listed are strictly prohibited for use with this device.

Immediately following the above notice, the manufacturer shall provide a list of all antenna types which can be used with the transmitter, indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna type.

#### 7.2 Antenna Information

| Manufacturer               | Antenna Type | Antenna Gain<br>(dBi)                      | Input<br>impedance |
|----------------------------|--------------|--|--------------------|
| YEALINK(XIAMEN)<br>NETWORK | PCB Antenna  | 5150~5250 MHz: 3.21<br>5250~5350 MHz: 3.43 | 50Ω                |
| TECHNOLOGY<br>CO.,LTD.     |              | 5470~5725 MHz: 3.00<br>5725~5850 MHz: 2.97 |                    |

The antenna is permanently connected to the EUT.

#### **Result: Compliance**

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 24 of 133

### 8 FCC §15.407(b)(9), §15.207(a) & RSS-GEN §8 – AC Line Conducted Emissions

No.: RXZ231115070RF03

#### 8.1 Applicable Standard

As per FCC §15.407(b) (9)

Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207

#### RSS-Gen Clause 8.8

Unless stated otherwise in the applicable RSS, for radio apparatus that are designed to be connected to the public utility AC power network, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the range 150 kHz to 30 MHz shall not exceed the limits in table 4, as measured using a 50  $\mu$ H / 50  $\Omega$  line impedance stabilization network. This requirement applies for the radio frequency voltage measured between each power line and the ground terminal of each AC power-line mains cable of the EUT.

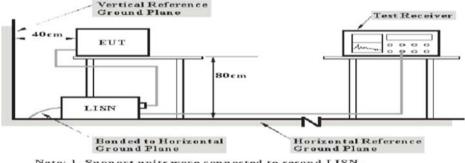
For an EUT that connects to the AC power lines indirectly, through another device, the requirement for compliance with the limits in table 4 shall apply at the terminals of the AC power-line mains cable of a representative support device, while it provides power to the EUT. The lower limit applies at the boundary between the frequency ranges. The device used to power the EUT shall be representative of typical applications.

The lower limit applies at the boundary between the frequencies ranges.

| Frequency of Emission | Conducted Limit (dBuV) |                 |  |  |  |
|-----------------------|------------------------|-----------------|--|--|--|
| (MHz)                 | Quasi-Peak             | Average         |  |  |  |
| 0.15-0.5              | 66 to 56 Note 1        | 56 to 46 Note 1 |  |  |  |
| 0.5-5                 | 56                     | 46              |  |  |  |
| 5-30                  | 60                     | 50              |  |  |  |

Note 1: Decreases with the logarithm of the frequency.

#### 8.2 EUT Setup



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

2. Both of LISNs (AMIN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 and RSS-GEN limits.

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 25 of 133

#### 8.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations

| Frequency Range | IF B/W |
|-----------------|--------|
| 150kHz – 30MHz  | 9kHz   |

No.: RXZ231115070RF03

#### 8.4 Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

#### 8.5 Corrected Factor & Margin Calculation

The factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

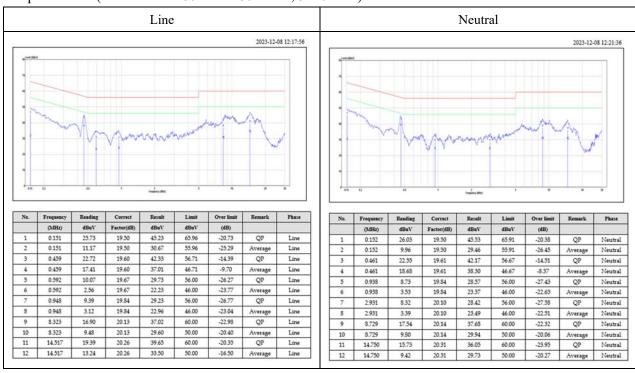
The "Over Limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an over limit of -7 dB means the emission is 7 dB below the limit. The equation for Over Limit calculation is as follows:

Over Limit = Level – Limit Line

#### 8.6 Test Results

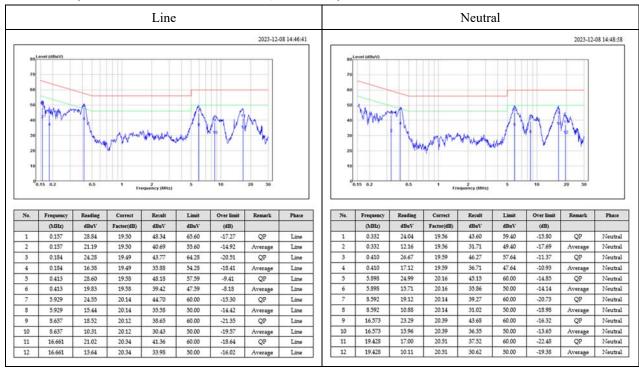
Test Mode: Transmitting Main: AC120 V, 60 Hz

Adapter Mode: (Worst case is 802.11ac 80 Mode, 5210MHz)



No.: RXZ231115070RF03

PoE Mode: (Worst case is 802.11ac 80 Mode, 5290MHz)



Note:

Result = Read Level + Factor

Over Limit = Result – Limit Line

Factor = (LISN, ISN, PLC or current probe) Factor + Cable Loss + Attenuator

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 27 of 133

## 9 FCC §15.209, §15.205, §15.407(b) & RSS-247 §6.2, RSS-GEN §8.9, RSS-GEN §8.10 – Spurious Emissions

No.: RXZ231115070RF03

#### 9.1 Applicable Standard

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz                 | MHz                   | MHz             | GHz           |
|---------------------|-----------------------|-----------------|---------------|
| 0.090 - 0.110       | 16.42 - 16.423        | 608 - 614       | 4.5 - 5.15    |
| 0.495 - 0.505       | 16.69475 – 16.69525   | 960 - 1240      | 5.35 - 5.46   |
| 2.1735 - 2.1905     | 16.80425 - 16.80475   | 1300 - 1427     | 7.25 - 7.75   |
| 4.125 - 4.128       | 25.5 - 25.67          | 1435 - 1626.5   | 8.025 - 8.5   |
| 4.17725 - 4.17775   | 37.5 - 38.25          | 1645.5 - 1646.5 | 9.0 - 9.2     |
| 4.20725 - 4.20775   | 73 - 74.6             | 1660 - 1710     | 9.3 - 9.5     |
| 6.215 - 6.218       | 74.8 - 75.2           | 1718.8 - 1722.2 | 10.6 - 12.7   |
| 6.26775 - 6.26825   | 108 - 121.94          | 2200 - 2300     | 13.25 - 13.4  |
| 6.31175 - 6.31225   | 123 - 138             | 2310 - 2390     | 14.47 - 14.5  |
| 8.291 - 8.294       | 149.9 - 150.05        | 2483.5 - 2500   | 15.35 - 16.2  |
| 8.362 - 8.366       | 156.52475 – 156.52525 | 2690 - 2900     | 17.7 - 21.4   |
| 8.37625 - 8.38675   | 156.7 – 156.9         | 3260 - 3267     | 22.01 - 23.12 |
| 8.41425 - 8.41475   | 162.0125 –167.17      | 3.332 - 3.339   | 23.6 - 24.0   |
| 12.29 - 12.293      | 167.72 - 173.2        | 33458 - 3358    | 31.2 - 31.8   |
| 12.51975 - 12.52025 | 240 - 285             | 3.600 - 4.400   | 36.43 - 36.5  |
| 12.57675 - 12.57725 | 322 - 335.4           |                 | Above 38.6    |
| 13.36 – 13.41       | 399.9 - 410           |                 |               |

As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency<br>(MHz) | Field Strength<br>(micro volts/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: Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

#### According to ANSI C63.10-2013, section 5.3.3

Measurements may be performed at a distance other than the limit distance provided they are not performed in the near field, and the emissions to be measured can be detected by the measurement equipment (see 4.3.4). Measurements shall not be performed at a distance greater than 30 m for frequencies above 30 MHz, unless it can be further demonstrated that measurements at a distance of 30 m or less are impractical. Measurements from 18 GHz to 40 GHz are typically made at distances significantly less than 3 m from the EUT. When performing

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 28 of 133

measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade of distance (inverse of linear distance for field-strength measurements or inverse of linear distance-squared for power-density measurements).

No.: RXZ231115070RF03

#### As per FCC Part 15.407 (b)

- For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.
- For transmitters operating in the 5.25–5.35 GHz band: All emissions outside of the 5.15–5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
- For transmitters operating in the 5.47–5.725 GHz band: All emissions outside of the 5.47–5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
- For transmitters operating in the 5.725-5.85 GHz band: All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
- Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
- The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
- Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209.

#### RSS-247 Clause 6.2

#### 5.15-5.25 GHz

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS)and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

#### 5.25-5.35 GHz

All emissions outside the band 5250-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p.; or

All emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. and its power shall comply with the spectral power density for operation within the band 5150-5250 MHz. The device, except devices installed in vehicles, shall be labelled or include in the user manual the following text "for indoor use only."

No.: RXZ231115070RF03

#### 5.47-5.725 GHz

Emissions outside the band 5470-5725 MHz shall not exceed -27 dBm/MHz e.i.r.p. However, devices with bandwidth overlapping the band edge of 5725 MHz can meet the emission limit of -27 dBm/MHz e.i.r.p.at 5850 MHz instead of 5725 MHz.

#### 5.725-5.850 GHz

Devices operating in the band 5725-5850 MHz with antenna gain greater than 10 dBi can have unwanted emissions that comply with either the limits in this section or in section 5.5 until six (6) months after the publication date of this standard for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2018.

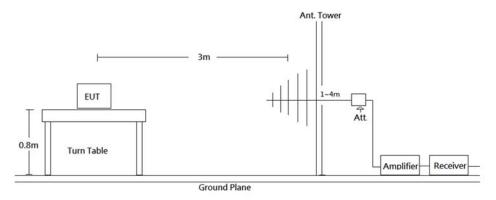
Devices operating in the band 5725-5850 MHz with antenna gain of 10 dBi or less can have unwanted emissions that comply with either the limits in this section or in section 5.5 until April 1, 2018 for certification. Certified devices that do not comply with emission limits in this section shall not be manufactured, imported, distributed, leased, offered for sale or sold after April 1, 2020.

Devices operating in the band 5725-5850 MHz shall have e.i.r.p. of unwanted emissions comply with the following:

- 27 dBm/MHz at frequencies from the band edges decreasing linearly to 15.6 Bm/MHz at 5 MHz above or below the band edges;
- 15.6 dBm/MHz at 5 MHz above or below the band edges decreasing linearly to 10 dBm/MHz at 25 MHz above or below the band edges;
- 10 dBm/MHz at 25 MHz above or below the band edges decreasing linearly to -27 dBm/MHz at 75 MHz above or below the band edges; and
- -27 dBm/MHz at frequencies more than 75 MHz above or below the band edges.

#### 9.2 EUT Setup

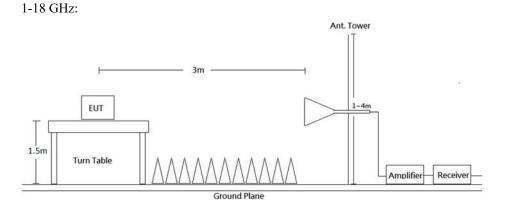
Below 1 GHz:



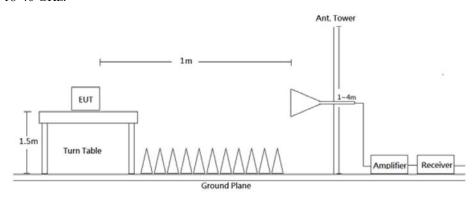
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 30 of 133

No.: RXZ231115070RF03



18-40 GHz:



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209, FCC 15.407, RSS-247, RSS-GEN Limits.

#### 9.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 40 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

| Frequency Range | RBW     | VBW   | Duty cycle | Measurement method |
|-----------------|---------|-------|------------|--------------------|
| 30-1000 MHz     | 120 kHz | /     | /          | QP                 |
|                 | 1 MHz   | 3 MHz | /          | PK                 |
| Above 1 GHz     | 1 MHz   | 10 Hz | >98%       | Ave                |
|                 | 1 MHz   | 1/T   | <98%       | Ave                |

Note: T is minimum transmission duration

#### 9.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

According to C63.10, emission shall be computed as: E  $[dB\mu V/m] = EIRP[dBm] + 95.2$ , for d = 3 meters.

All emissions under the average limit and under the noise floor have not recorded in the report

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 31 of 133

#### 9.5 Corrected Factor & Margin Calculation

The Correct Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Level - Limit

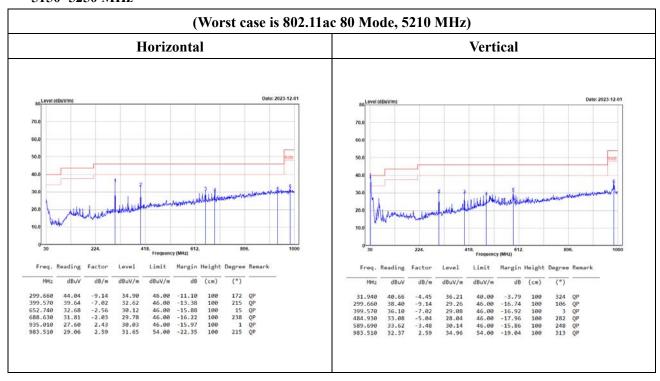
#### 9.6 Test Results

Test Mode: Transmitting

#### 30MHz-1GHz:

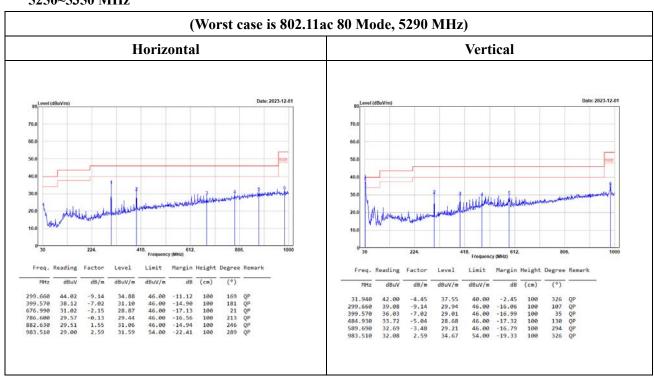
#### **Adapter Mode:**

#### 5150~5250 MHz

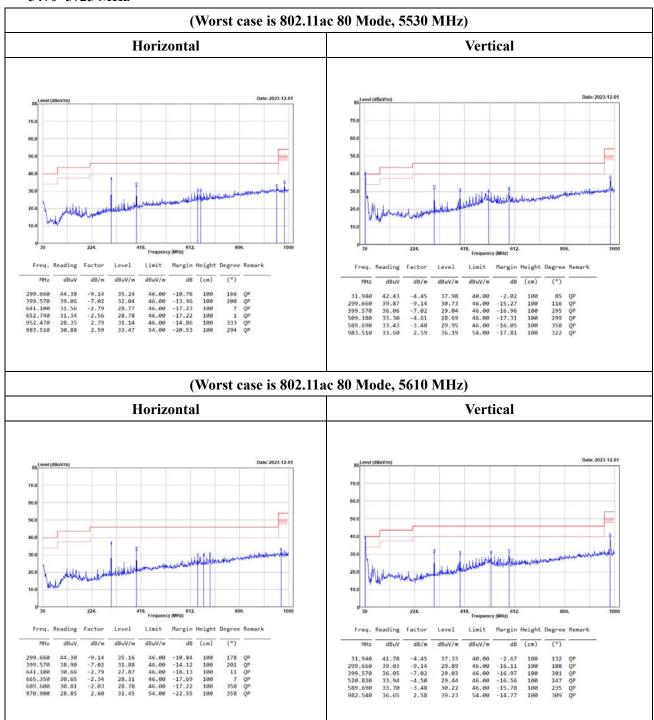


No.: RXZ231115070RF03

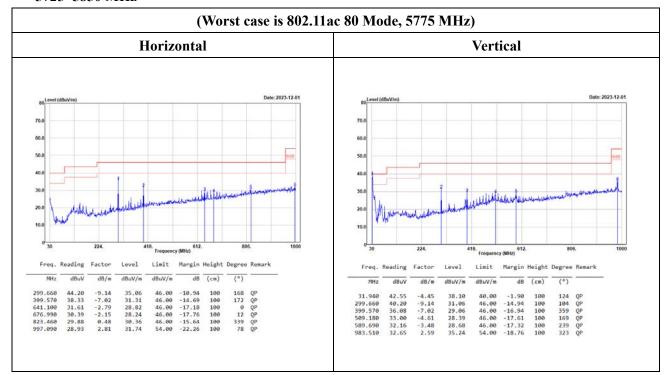
#### 5250~5350 MHz



#### 5470~5725 MHz



#### 5725~5850 MHz



No.: RXZ231115070RF03

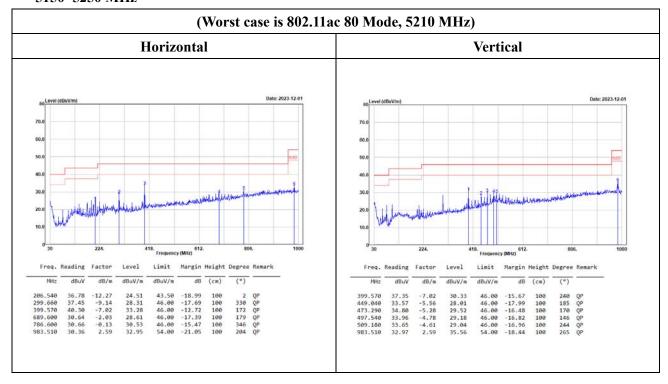
Level = Reading + Factor.

Margin = Level-Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

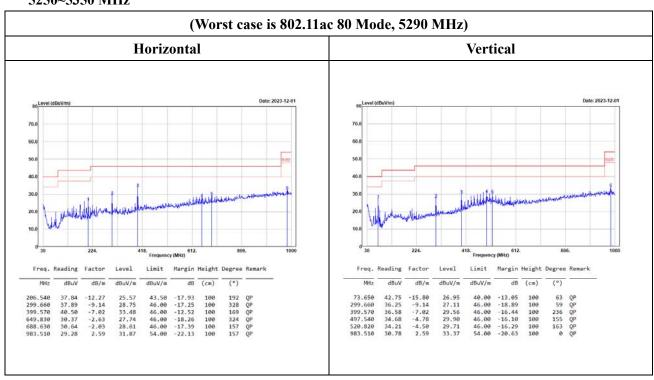
#### **PoE Mode:**

#### 5150~5250 MHz

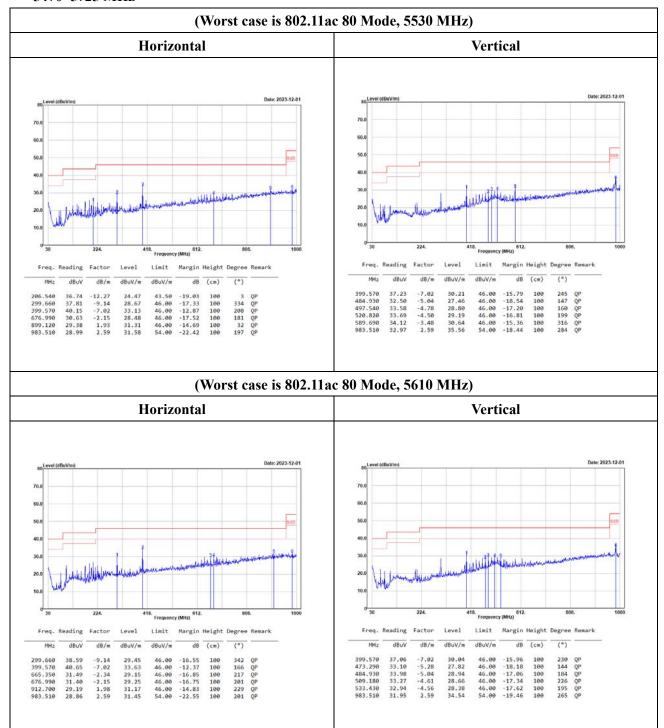


No.: RXZ231115070RF03

#### 5250~5350 MHz

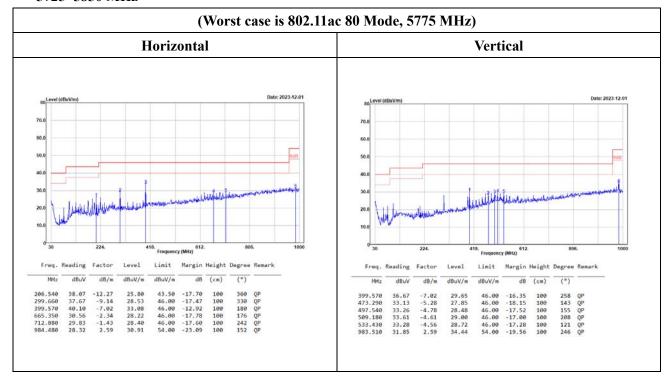


#### 5470~5725 MHz



No.: RXZ231115070RF03

#### 5725~5850 MHz



No.: RXZ231115070RF03

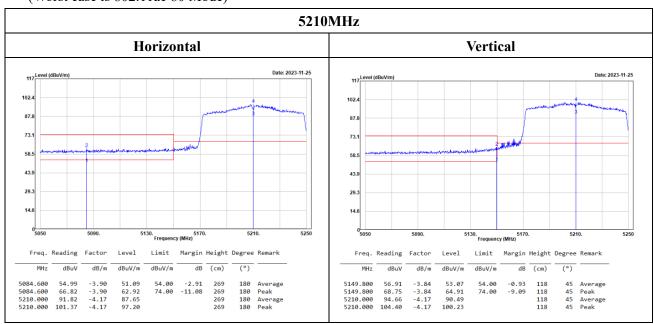
Level = Reading + Factor.

Margin = Level - Limit.

Factor = Antenna Factor + Cable Loss - Amplifier Gain.

Band-Edge

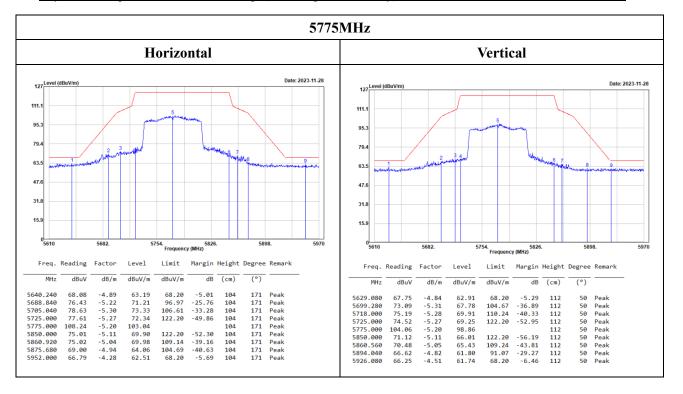
(Worst case is 802.11ac 80 Mode)



Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 38 of 133

No.: RXZ231115070RF03

68.20

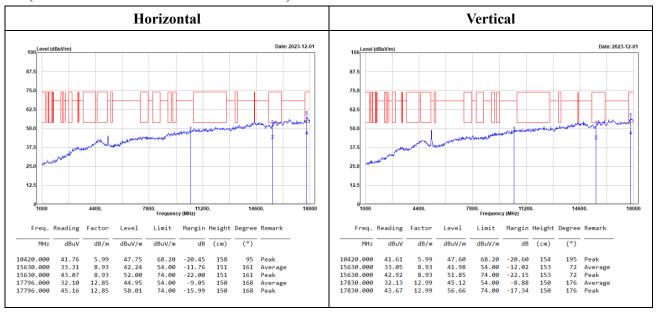


Level = Reading + Factor.

Margin = Level - Limit.

#### 1GHz-18GHz:

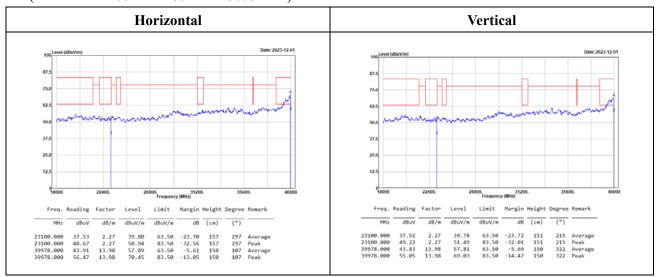
(Worst case is 802.11ac 80 Mode 5210MHz)



No.: RXZ231115070RF03

#### 18GHz-40GHz:

(Worst case is 802.11ac 80 Mode 5775MHz)



Level = Reading + Factor.

Margin = Level-Limit.

## **Above 1GHz:**

## 5150-5250MHz

## 802.11a Mode:

| 1347-080   54, 26   -3, 85   50, 43   54,00   -3, 57   158   139   Average   5149,200   56,72   -3,84   52,88   54,00   -1,12   132   1347-080   09,755   -4,85   69,91   74,00   -4,09   132   132   1380,000   196,36   -4,05   102,91   74,00   -4,09   132   132   132   1380,000   196,36   -4,05   102,91   74,00   -4,09   132    |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            |                 |
|--|----------|---------|--------|--------|--------|--------|--------|---------|----------|-----------|----------------|--------|-----------|-------------|--------|---------|------------|-----------------|
| MHz  |          |         |        | Horiz  | zontal |        |        |         |          |           |                |        | Ver       | tical       |        |         |            |                 |
| S147.000   S4.26   -3.83   S0.43   S4.00   -3.57   IS8   IS8   Average   S147.000   76.07   -3.83   S6.24   74.00   -7.76   IS8   IS8   Pask   S149.200   S5.72   -3.84   S2.88   S4.00   -4.09   I32   S180.000   97.55   -4.85   S3.59   S1.52   S1.58   S1.58   Pask   S1.59.200   S5.72   -3.84   S2.88   S4.00   -4.09   I32   I32   I32   I32   I32   I33   I32   I32   I33   I32   I32   I33   I32   I33   I32   I33   I32   I33   I32   I33   I33  | Freq.    | Reading | Factor | Level  | Limit  | Margin | Height | Degree  | Remark   | Freq.     | Reading        | Factor | Level     | Limit       | Margin | Height  | Degree     | Remark          |
| S147,080   70.07   73.33   66.24   74.09   77.76   158   188   Pack   1580,000   75.55   -3.65   -3.65   -3. | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)     |          | MHz       | dBuV           | dB/m   | dBuV/m    | dBuV/m      | dB     | (cm)    | (°)        |                 |
| 138   198   Average   15180   198  |          |         |        |        |        |        |        |         |          | 5149.200  | 56.72          | -3.84  | 52.88     | 54.00       | -1.12  | 132     | 41         | Avera           |
| S188,000   106.96   -4.05   102.91   158   198   Peak  |          |         |        |        | 74.00  | -7.76  |        |         |          |           |                |        |           | 74.00       | -4.09  |         |            | Peak            |
| Mitz   dBuV   dB/m   dBuV/m   dB uv/m   dB u |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            | Avera<br>Peak   |
| Metr   dBuV   dB/m   dBuV/m   dB uV/m   dB uV/m   dB   (cm)   (°)     Metr   dBuV   dB/m   dBuV/m   dB uV/m   dB   (cm)   (°)     Metr   dBuV   dB/m   dBuV/m   dB uV/m   dB u | Freq.    | Reading | Factor | Level  | Limit  | Margin | Height | Degree  | Remark   | Enon      | Roading        | Easton | Level     | Limit       | Mangin | Hainht  | Doggooo    | Romank          |
| 18360.000  | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)     |          | 20.74.548 | 22.000.000.000 |        | 100000000 |             |        |         |            | Kemar-k         |
| S200 MHz   | 0360 000 | 12 50   | 5 72   | 18 31  | 68 20  | -10 80 | 157    | 210     | Poak     |           |                |        |           | COLUMN TO S |        | 1000000 | (°)        |                 |
| Solid   Soli |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         | 180<br>246 | Peak<br>Average |
| Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   H | 5540.000 | 41.82   | 8.79   | 50.61  | 74.00  | -23.39 | 153    | 65      | Peak     |           |                |        |           |             |        |         |            | Peak            |
| Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark     Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark     Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   The properties   The |          |         |        |        |        |        |        |         | 5200 N   | MHz       |                |        |           |             |        |         |            |                 |
| MHz   dBuV   dB/m   dBuV/m   dBuV/m   dBuV/m   dB   cm   (°)     MHz   dBuV   dB/m   dBuV/m   dBuV/m   dB   cm   (°)     MHz   dBuV   dB/m   dBuV/m   dBuV/m   dB   cm   (°)     MHz   dBuV   dB/m   dBuV/m   dB   cm   cm   cm   cm   cm   cm   cm   c   |          |         |        | Horiz  | zontal |        |        |         |          |           |                |        | Ver       | tical       |        |         |            |                 |
| S200.000   | Freq.    | Reading | Factor | Level  | Limit  | Margin | Height | Degree  | Remark   | Freq.     | Reading        | Factor | Level     | Limit       | Margin | Height  | Degree     | Remark          |
| S200.000   107.94   -4.19   103.75   252   180   Peak   S200.000   111.38   -4.19   107.19   121   | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)     |          | MHz       | dBuV           | dB/m   | dBuV/m    | dBuV/m      | dB     | (cm)    | (°)        |                 |
| Freq. Reading Factor Level Limit Margin Height Degree Remark    Freq. Reading Factor Level Limit Margin Height Degree Remark     Freq. Reading Factor Level Limit Margin Height Degree Remark  |          |         |        |        |        |        |        |         |          | 5200.000  | 102.22         | -4.19  | 98.03     |             |        | 121     | 46         | Averag          |
| MHz   dBuV   dB/m   dBuV/m   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dBuV/m   dB (cm)   dB (cm)   (°)   MHz   dBuV   dB/m   dB uV/m   dB (cm)   (°)   MHz   dB uV   dB/m   dB uV/m   dB (cm)   (°)   MHz   dB uV   dB/m   dB uV/m   dB (cm)   (°)   MHz   dB uV   dB/m   dB uV/m   dB (cm)   (°)   MHz   dB uV   dB/m   dB uV/m   dB (cm)   (°)   MHz   dB uV   dB/m   dB uV/m   dB (cm)   (° | 5200.000 | 107.94  | -4.19  | 103.75 |        |        | 252    | 180     | Peak     | 5200.000  | 111.38         | -4.19  | 107.19    |             |        | 121     | 46         | Peak            |
| 10400.000  | Freq.    | Reading | Factor | Level  | Limit  | Margir | Heigh  | t Degre | e Remark | Freq.     | Reading        | Factor | Level     | Limit       | Margin | Height  | t Degree   | e Remar         |
| Scale   Oracle   Scale   Sca | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dE     | (cm)   | (°)     |          | MHz       | dBuV           | dB/m   | dBuV/m    | dBuV/m      | dB     | (cm)    | (°)        | -               |
| Solution   Solution  |          |         |        |        |        |        |        |         |          | 10400.000 | 44.84          | 5.96   | 50.80     | 68.20       | -17.40 | 157     | 186        | Peak            |
| Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   Freq. Reading   Factor   Level   Limit   Margin   Height   Degree   Remark   MHz   dBuV   dB/m   dBuV/m   dBuV/m   dB   (cm)   |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            | Avera<br>Peak   |
| Freq. Reading Factor Level Limit Margin Height Degree Remark    Freq. Reading Factor Level Limit Margin Height Degree Remark   Freq. Reading Factor Level Limit Margin Height Degree Remark   MHz dBuV dB/m dBuV/m dBuV/m dB (cm)  |          |         |        |        |        |        |        |         | 5240 N   | MHz       |                |        |           |             |        |         |            |                 |
| MHz         dBuV         dBuV         dBuV/m         dBuV/m         dB (cm)         (°)         MHz         dBuV         dB uV/m         dBuV/m         dB uV/m         <  |          |         |        | Horiz  | zontal |        |        |         |          |           |                |        | Ver       | tical       |        |         |            |                 |
| 5240.000 98.21 -4.14 94.07 233 194 Average 5240.000 102.31 -4.14 98.17 108 5240.000 107.45 -4.14 103.31 233 194 Peak 5240.000 111.56 -4.14 107.42 108 5453.440 53.41 -4.82 48.59 54.00 -5.41 233 194 Average 5350.120 53.31 -4.31 49.00 54.00 -5.00 108 5453.440 66.50 -4.82 61.68 74.00 -12.32 233 194 Peak 5350.120 66.08 -4.31 61.77 74.00 -12.23 108 Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark Grant MHz dBuV dB/m dBuV/m dBuV/m dB (cm)  | Freq.    | Reading | Factor | Level  | Limit  | Margin | Height | Degree  | Remark   | Freq.     | Reading        | Factor | Level     | Limit       | Margin | Height  | Degree     | Remar           |
| 5240,000       107.45       -4.14       103.31       233       194       Peak       5240,000       111.56       -4.14       107.42       108         5453.440       53.41       -4.82       48.59       54.00       -5.41       233       194       Average       5350.120       53.31       -4.31       49.00       54.00       -5.00       108         5453.440       66.50       -4.82       61.68       74.00       -12.32       233       194       Peak       5350.120       66.08       -4.31       61.77       74.00       -12.23       108         Freq. Reading Factor Level Limit Margin Height Degree Remark       Freq. Reading Factor Level Limit Margin Height Degree Remark         MHz       dBuV dB/m dBuV/m d   | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)     |          | MHz       | dBuV           | dB/m   | dBuV/m    | dBuV/m      | dB     | (cm)    | (°)        |                 |
| 5453.440 53.41 -4.82 48.59 54.00 -5.41 233 194 Average 5350.120 53.31 -4.31 49.00 54.00 -5.00 108 5453.440 66.50 -4.82 61.68 74.00 -12.32 233 194 Peak 5350.120 66.08 -4.31 61.77 74.00 -12.23 108 Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB (cm)   |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            | Avera           |
| 5453.440 66.50 -4.82 61.68 74.00 -12.32 233 194 Peak 5359.120 66.08 -4.31 61.77 74.00 -12.23 108  Freq. Reading Factor Level Limit Margin Height Degree Remark Freq. Reading Factor Level Limit Margin Height Degree Remark MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) MHz dBuV dB/m dBuV/m dBuV/m dB (cm)  |          |         |        |        | 54.00  | -5,41  |        |         |          |           |                |        |           | 54 00       | -5 aa  | 200     |            | Peak<br>Avera   |
| MHz dBuV dB/m dBuV/m dBuV/m dB (cm) (°) MHz dBuV dB/m dBuV/m dBuV/m dB (cm)  |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            | Peak            |
|  | Freq.    | Reading | Factor | Level  | Limit  | Margin | Height | Degree  | Remark   | Freq.     | Reading        | Factor | Level     | Limit       | Margin | Height  | t Degree   | e Remar         |
| 19489.999 41.47 6.69 47.56 68.29 -29.64 154 145 Peak 19489.999 42.61 6.09 48.79 68.29 -19.59 151   | MHz      | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)     |          | MHz       | dBuV           | dB/m   | dBuV/m    | dBuV/m      | dB     | (cm)    | (°)        |                 |
|  | 0480.000 | 41.47   | 6.09   | 47.56  |        | -20.64 | 154    |         |          | 10480.000 | 42.61          | 6.09   | 48.70     | 68.20       |        |         |            | Peak            |
|  |          |         |        |        |        |        |        |         |          |           |                |        |           |             |        |         |            | Avera<br>Peak   |

Level = Reading + Factor.

Margin = Level-Limit.

# 802.11ac VHT20 Mode:

|  |  |                              |  |                                   |                           |                                    |                                    | 5180                    | MHZ   |                                    |                                  |                                   |                          |                           |                                 |                                       |                        |
|--|--|------------------------------|--|-----------------------------------|---------------------------|------------------------------------|------------------------------------|-------------------------|---|------------------------------------|----------------------------------|-----------------------------------|--------------------------|---------------------------|---------------------------------|---------------------------------------|------------------------|
|  |  |                              | Horiz  | zontal                            |                           |                                    |                                    |                         |   |                                    |                                  | Ver                               | tical                    |                           |                                 |                                       |                        |
| Freq.  | Reading  | Factor                       | Level  | Limit                             | Margin                    | Height                             | Degree                             | Remark                  | Freq.   | Reading                            | Factor                           | Level                             | Limit                    | Margin                    | Height                          | Degree                                | Remark                 |
| MHz  | dBuV   | dB/m                         | dBuV/m   | dBuV/m                            | dB                        | (cm)                               | (°)                                |                         | MHz   | dBuV                               | dB/m                             | dBuV/m                            | dBuV/m                   | dB                        | (cm)                            | (°)                                   |                        |
| 5149.800   | 53.98  | -3.84                        | 50.14  | 54.00                             | -3.86                     | 160                                | 195                                | Average                 | 5149.600  | 55.72                              | -3.84                            | 51.88                             | 54.00                    | -2.12                     | 130                             |                                       | Average                |
| 5149.800   | 68.33  | -3.84                        | 64.49  | 74.00                             | -9.51                     | 160                                | 195                                | Peak                    | 5149.600<br>5180.000                                  | 70.28<br>102.08                    | -3.84<br>-4.05                   | 66.44<br>98.03                    | 74.00                    | -7.56                     | 130<br>130                      |                                       | Peak<br>Average        |
| 5180.000<br>5180.000   | 96.50<br>106.80                                  | -4.05<br>-4.05               | 92.45<br>102.75                                      |                                   |                           | 160<br>160                         | 195<br>195                         | Average<br>Peak         | 5180.000  |                                    | -4.05                            | 107.80                            |                          |                           | 130                             |                                       | Peak                   |
| Freq.  | Reading  | Factor                       | Level  | Limit                             | Margin                    | Height                             | Degree                             | Remark                  | Freq.   | Reading                            | Factor                           | Level                             | Limit                    | Margin                    | Height                          | Degree                                | Remark                 |
| MHz  | dBuV   | dB/m                         | dBuV/m   | dBuV/m                            | dB                        | (cm)                               | (°)                                |                         | MHz   | dBuV                               | dB/m                             | dBuV/m                            | dBuV/m                   | dB                        | (cm)                            | (°)                                   |                        |
| 10360.000  | 42.14  | 5.72                         | 47.86  | 68.20                             | -20.34                    | 150                                | 91                                 | Peak                    | 10360.000   | 44.39                              | 5.72                             | 50.11                             | 68.20                    | -18.09                    | 150                             | 187                                   | Peak                   |
| 15540.000  | 30.36  | 8.79                         | 39.15  | 54.00                             | -14.85                    | 150                                | 40                                 | Average                 | 15540.000   | 30.04                              | 8.79                             | 38.83                             | 54.00                    | -15.17                    | 151                             |                                       | Averag                 |
| 15540.000  | 41.15  | 8.79                         | 49.94  | 74.00                             | -24.06                    | 150                                | 40                                 | Peak                    | 15540.000   | 41.27                              | 8.79                             | 50.06                             | 74.00                    | -23.94                    | 151                             | 248                                   | Peak                   |
|  |  |                              |  |                                   |                           |                                    |                                    | 5200                    | MHz   |                                    |                                  |                                   |                          |                           |                                 |                                       |                        |
|  |  |                              | Horiz  | zontal                            |                           |                                    |                                    |                         |   |                                    |                                  | Ver                               | tical                    |                           |                                 |                                       |                        |
|  |  |                              |  |                                   |                           |                                    |                                    |                         | 2000  | 5.5 Leaster                        |                                  |                                   |                          |                           |                                 | 15 50                                 |                        |
| Freq.  | Reading  | Factor                       | Level  | Limit                             | Margin                    | Height                             |                                    | Remark                  | -   | Reading                            |                                  | Level                             |                          | Margin                    |                                 |                                       | Remark                 |
| MHz  | dBuV   | dB/m                         | dBuV/m   | dBuV/m                            | dB                        | (cm)                               | (°)                                |                         | MHz   | dBuV                               | dB/m                             | dBuV/m                            | dBuV/m                   | dB                        | (cm)                            | (°)                                   |                        |
| 5200.000<br>5200.000   |  | -4.19<br>-4.19               | 94.22<br>103.96                                      |                                   |                           | 252<br>252                         |                                    | Average<br>Peak         | 5200.000<br>5200.000                                  |                                    | -4.19<br>-4.19                   | 97.44<br>106.83                   |                          |                           | 118<br>118                      | 47 A                                  | Average<br>Peak        |
| Freq   | . Reading  | Factor                       | Level  | Limit                             | Margin                    | Height                             | Degree                             | Remark                  | Freq.   | Reading                            | Factor                           | Level                             | Limit                    | Margin                    | Height                          | Degree                                | Remark                 |
| MH   | z dBuV   | dB/m                         | dBuV/m   | dBuV/m                            | dB                        | (cm)                               | (°)                                |                         | MHz   | dBuV                               | dB/m                             | dBuV/m                            | dBuV/m                   | dB                        | (cm)                            | (°)                                   |                        |
| 10400.00   |  | 5.96                         | 48.70  | 68.20                             | -19.50                    | 154                                | -                                  | Peak                    | 10400.000   | 44.61                              | 5.96                             | 50.57                             | 68.20                    | -17.63                    | 154                             | 188                                   | Peak                   |
| 15600.00<br>15600.00   |  | 8.78<br>8.78                 | 41.08<br>51.17                                       | 54.00<br>74.00                    | -12.92<br>-22.83          | 159<br>159                         | 305<br>305                         | Average<br>Peak         | 15600.000<br>15600.000                                | 31.60<br>43.38                     | 8.78<br>8.78                     | 40.38<br>52.16                    | 54.00<br>74.00           | -13.62<br>-21.84          | 150<br>150                      |                                       | Averag<br>Peak         |
|  |  |                              |  |                                   |                           |                                    |                                    | 5240                    | MHz   |                                    |                                  |                                   |                          |                           |                                 |                                       |                        |
|  |  |                              | Horiz  | zontal                            |                           |                                    |                                    |                         |   |                                    |                                  | Ver                               | tical                    |                           |                                 |                                       |                        |
|  |  |                              |  |                                   | Margin                    | Height                             | Degree                             | Remark                  | Freq.   | Reading                            | Factor                           | Level                             | Limit                    | Margin                    | Height                          | Degree                                | Remark                 |
| Freq.  | Reading  | Factor                       | Level  | Limit                             |                           |                                    |                                    |                         |   |                                    |                                  |                                   |                          |                           | (cm)                            | (°)                                   |                        |
| Freq.  | Reading<br>————————————————————————————————————  | Factor<br>dB/m               | Level<br>dBuV/m                                      | dBuV/m                            |                           | (cm)                               | (°)                                |                         | MHz   | dBuV                               | dB/m                             | dBuV/m                            | dBuV/m                   | dB                        | (Сш)                            | ( )                                   |                        |
| MHz<br>5240.000  | dBuV<br>98.53                                    | dB/m -4.14                   | dBuV/m<br>94.39                                      |                                   |                           | 286                                | 181                                | Average                 | 5240.000  | 101.33                             | -4.14                            | 97.19                             | dBuV/m                   | dB                        | 126                             | 46                                    |                        |
| MHz<br>5240.000<br>5240.000                                  | dBuV<br>98.53<br>108.07                          | dB/m<br>-4.14<br>-4.14       | dBuV/m<br>94.39<br>103.93                            | dBuV/m                            | dB                        | 286<br>286                         | 181<br>181                         | Peak                    | 5240.000<br>5240.000                                  | 101.33<br>110.81                   | -4.14<br>-4.14                   | 97.19<br>106.67                   |                          |                           | 126<br>126                      | 46<br>46                              | Peak                   |
| MHz<br>5240.000  | 98.53<br>108.07<br>53.52                         | dB/m -4.14                   | dBuV/m<br>94.39                                      |                                   |                           | 286                                | 181                                |                         | 5240.000  | 101.33                             | -4.14                            | 97.19                             | dBuV/m<br>54.00<br>74.00 | -5.21                     | 126<br>126<br>126               | 46                                    |                        |
| MHz<br>5240.000<br>5240.000<br>5364.060<br>5364.060          | 98.53<br>108.07<br>53.52<br>66.76                | -4.14<br>-4.14<br>-4.38      | dBuV/m<br>94.39<br>103.93<br>49.14                   | dBuV/m                            | dB<br>-4.86               | 286<br>286<br>286<br>286           | 181<br>181<br>181<br>181           | Peak<br>Average<br>Peak | 5240.000<br>5240.000<br>5398.500<br>5398.500          | 101.33<br>110.81<br>53.35          | -4.14<br>-4.14<br>-4.56          | 97.19<br>106.67<br>48.79          | 54.00                    | -5.21                     | 126<br>126<br>126<br>126<br>126 | 46<br>46<br>46<br>46                  | Peak<br>Averag<br>Peak |
| MHz<br>5240.000<br>5240.000<br>5364.060<br>5364.060          | 98.53<br>108.07<br>53.52<br>66.76                | dB/m -4.14 -4.14 -4.38 -4.38 | dBuV/m<br>94.39<br>103.93<br>49.14<br>62.38          | dBuV/m<br>54.00<br>74.00          | -4.86<br>-11.62           | 286<br>286<br>286<br>286           | 181<br>181<br>181<br>181           | Peak<br>Average<br>Peak | 5240.000<br>5240.000<br>5398.500<br>5398.500          | 101.33<br>110.81<br>53.35<br>66.35 | -4.14<br>-4.14<br>-4.56<br>-4.56 | 97.19<br>106.67<br>48.79<br>61.79 | 54.00<br>74.00           | -5.21<br>-12.21<br>Margin | 126<br>126<br>126<br>126<br>126 | 46<br>46<br>46<br>46                  | Peak<br>Averag<br>Peak |
| MHz<br>5240.000<br>5240.000<br>5364.060<br>5364.060<br>Freq. | dBuV 98.53 108.07 53.52 66.76 Reading dBuV 42.05 | dB/m -4.14 -4.14 -4.38 -4.38 | dBuV/m<br>94.39<br>103.93<br>49.14<br>62.38<br>Level | dBuV/m<br>54.00<br>74.00<br>Limit | -4.86<br>-11.62<br>Margin | 286<br>286<br>286<br>286<br>Height | 181<br>181<br>181<br>181<br>Degree | Peak<br>Average<br>Peak | 5240.000<br>5240.000<br>5398.500<br>5398.500<br>Freq. | 101.33<br>110.81<br>53.35<br>66.35 | -4.14<br>-4.14<br>-4.56<br>-4.56 | 97.19<br>106.67<br>48.79<br>61.79 | 54.00<br>74.00<br>Limit  | -5.21<br>-12.21<br>Margin | 126<br>126<br>126<br>126<br>126 | 46<br>46<br>46<br>46<br>Degree<br>(°) | Peak<br>Averag<br>Peak |

Level = Reading + Factor.

Margin = Level-Limit.

## 802.11ac VHT40 Mode:

|  |   |   |   |  |  |   |                                     | 5190   | MHz   |   |   |   |  |  |                                |                            |  |
|--|---|---|---|--|--|---|-------------------------------------|--|---|---|---|---|--|--|--------------------------------|----------------------------|--|
|  |   |   | Horiz   | zontal   |  |   |                                     |  |   |   |   | Ver   | tical  |  |                                |                            |  |
| Freq.  | Reading   | Factor  | Level   | Limit  | Margin   | Height                                      | Degree                              | Remark                                       | Freq.   | Reading   | Factor  | Level   | Limit  | Margin   | Height                         | Degree                     | Remark                                     |
| MHz  | dBuV  | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)  | (°)                                 |  | MHz   | dBuV  | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)                           | (°)                        |  |
| 5147.800   | 54.04   | -3.84   | 50.20   | 54.00  | -3.80  | 150   | 196                                 | Average                                      | 5145.200  | 56.82   | -3.83   | 52.99   | 54.00  | -1.01  | 129                            | 43                         | Averag                                     |
| 5147.800   | 68.68   | -3.84   | 64.84   | 74.00  | -9.16  | 150   | 196                                 | Peak   | 5145.200  | 74.35   | -3.83   | 70.52   | 74.00  | -3.48  | 129                            | 43                         | Peak                                       |
| 5180.000   | 94.32   | -4.05   | 90.27   |  |  | 150   | 196                                 | Average                                      | 5190.000  | 99.64   | -4.11   | 95.53   |  |  | 129                            | 43                         | Averag                                     |
| 5180.000   |   | -4.05   | 100.00  |  |  | 150   | 196                                 | Peak   | 5190.000  | 109.14  | -4.11   | 105.03  |  |  | 129                            | 43                         | Peak                                       |
| Freq.  | Reading   | Factor  | Level   | Limit  | Margin   | Height                                      | Degree                              | Remark                                       | Freq.   | Reading   | Factor  | Level   | Limit  | Margin   | Height                         | Degree                     | Remark                                     |
| MHz  | dBuV  | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)  | (°)                                 |  | MHz   | dBuV  | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)                           | (°)                        |  |
| 10380.000  | 42.66   | 5.84  | 48.50   | 68.20  | -19.70   | 154   | 44                                  | Peak   | 10380.000   | 42.27   | 5.84  | 48.11   | 68.20  | -20.09   | 157                            | 357                        | Peak                                       |
| 15570.000  | 31.88   | 8.78  | 40.66   | 54.00  | -13.34   | 151   | 24                                  | Average                                      | 15570.000   | 32.14   | 8.78  | 40.11   | 54.00  | -13.08   | 153                            | 276                        | Average                                    |
| 15570.000  | 43.01   | 8.78  | 51.79   | 74.00  | -22.21   | 151   | 24                                  | Peak   | 15570.000   | 42.47   | 8.78  | 51.25   | 74.00  | -22.75   | 153                            |                            | Peak                                       |
|  |   |   |   |  |  |   |                                     |  |   |   |   |   |  |  |                                |                            |  |
|  |   |   |   |  |  |   |                                     | 5230   | MHz   |   |   |   |  |  |                                |                            |  |
|  |   |   | Horiz   | zontal   |  |   |                                     | 5230   | MHz   |   |   | Ver   | tical  |  |                                |                            |  |
| Freq.  | Reading   | Factor  | Horiz   | zontal   | Margin   | Height                                      | Degree                              | 5230   |   | Reading   | Factor  | Ver   | tical  | Margin   | Height                         | Degree                     | Remark                                     |
| Freq.  | Reading dBuV                                      | Factor<br>dB/m                                |   |  | Margin<br>———————————————————————————————————— |   | Degree (°)                          |  |   | Reading dBuV                                      | Factor<br>dB/m                                |   |  | Margin<br>———————————————————————————————————— |                                | Degree<br>(°)              | Remark                                     |
| ·  |   |   | Level   | Limit  |  |   |                                     |  | Freq.   |   |   | Level   | Limit  |  |                                |                            | Remark                                     |
| MHz  | dBuV  | dB/m  | Level<br>dBuV/m   | Limit  |  | (cm)  | (°)                                 | Remark                                       | Freq.<br>MHz  | dBuV  | dB/m  | Level<br>dBuV/m   | Limit  |  | (cm)                           | (°)                        |  |
| MHz<br>5230.000  | dBuV<br>95.51                                     | dB/m<br>-4.15                                 | Level<br>dBuV/m<br>91.36                                      | Limit  |  | (cm)<br>265<br>265                          | (°)                                 | Remark                                       | Freq.<br>MHz<br>5230.000                                  | dBuV  | dB/m  | Level dBuV/m 95.10  | Limit  |  | (cm)                           | (°)                        | Averag<br>Peak                             |
| MHz<br>5230.000<br>5230.000                                  | dBuV<br>95.51<br>104.72                           | dB/m<br>-4.15<br>-4.15                        | Level<br>dBuV/m<br>91.36<br>100.57                            | Limit<br>dBuV/m  | dB   | (cm)<br>265<br>265                          | (°) 196 196                         | Remark  Average Peak                         | Freq.<br>MHz<br>5230.000<br>5230.000                      | dBuV<br>99.25<br>108.96                           | dB/m<br>-4.15<br>-4.15                        | Level<br>dBuV/m<br>95.10<br>104.81                            | Limit<br>dBuV/m                                  | dB   | (cm) 112 112 112               | (°)                        | Averag<br>Peak                             |
| MHz<br>5230.000<br>5230.000<br>5421.050<br>5421.050          | 95.51<br>104.72<br>53.44                          | dB/m -4.15 -4.15 -4.68                        | Level<br>dBuV/m<br>91.36<br>100.57<br>48.76                   | Limit<br>dBuV/m  | -5.24  | (cm) 265 265 265 265                        | (°) 196 196 196 196                 | Average Peak Average Peak Peak               | Freq. MHz 5230.000 5230.000 5444.420 5444.420             | dBuV<br>99.25<br>108.96<br>53.58                  | dB/m<br>-4.15<br>-4.15<br>-4.80<br>-4.80      | Level<br>dBuV/m<br>95.10<br>104.81<br>48.78                   | Limit<br>dBuV/m                                  | -5.22<br>-11.60                                | (cm) 112 112 112 112           | (°) 44 44 44               | Averag<br>Peak<br>Averag<br>Peak           |
| MHz<br>5230.000<br>5230.000<br>5421.050<br>5421.050          | dBuV<br>95.51<br>104.72<br>53.44<br>66.81         | dB/m -4.15 -4.15 -4.68 -4.68                  | Devel dBuV/m 91.36 100.57 48.76 62.13                         | Limit  dBuV/m  54.00 74.00                             | -5.24<br>-11.87                                | (cm) 265 265 265 265                        | (°) 196 196 196 196                 | Average Peak Average Peak Peak               | Freq. MHz 5230.000 5230.000 5444.420 5444.420             | dBuV<br>99.25<br>108.96<br>53.58<br>67.20         | dB/m<br>-4.15<br>-4.15<br>-4.80<br>-4.80      | Devel dBuV/m 95.10 104.81 48.78 62.40                         | Limit  dBuV/m  54.00 74.00                       | -5.22<br>-11.60                                | (cm) 112 112 112 112 112       | (°) 44 44 44 44            | Averag<br>Peak<br>Averag<br>Peak           |
| MHz<br>5230.000<br>5230.000<br>5421.050<br>5421.050<br>Freq. | dBuV<br>95.51<br>104.72<br>53.44<br>66.81         | dB/m -4.15 -4.15 -4.68 -4.68                  | dBuV/m<br>91.36<br>100.57<br>48.76<br>62.13                   | Limit  dBuV/m  54.00 74.00  Limit                      | -5.24<br>-11.87<br>Margin                      | (cm) 265 265 265 265                        | (°) 196 196 196 196 Degree          | Average Peak Average Peak Peak               | Freq.  MHz 5230.000 5230.000 5444.420 5444.420 Freq.      | dBuV 99.25 108.96 53.58 67.20  Reading dBuV       | dB/m -4.15 -4.15 -4.80 -4.80                  | Level  dBuV/m  95.10 104.81 48.78 62.40  Level  dBuV/m        | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m        | -5.22<br>-11.60<br>Margin                      | (cm)  112 112 112 112 112 (cm) | (°) 44 44 44 44 Degree     | Averag<br>Peak<br>Averag<br>Peak           |
| MHz<br>5230.000<br>5230.000<br>5421.050<br>5421.050<br>Freq. | dBuV 95.51 104.72 53.44 66.81  Reading dBuV       | dB/m -4.15 -4.15 -4.68 -4.68                  | Devel dBuV/m 91.36 100.57 48.76 62.13 Level dBuV/m            | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m              | -5.24<br>-11.87<br>Margin                      | (cm)  265 265 265 265  Height (cm)          | (°)  196 196 196 196 Degree         | Average<br>Peak<br>Average<br>Peak<br>Remark | Freq.  MHz 5230.000 5230.000 5244.420 5444.420 Freq.  MHz | dBuV 99.25 108.96 53.58 67.20  Reading dBuV 42.39 | dB/m -4.15 -4.15 -4.80 -4.80 Factor dB/m 6.06 | Devel  dBuV/m  95.10 104.81 48.78 62.40  Level  dBuV/m  48.45 | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m  68.20 | -5.22<br>-11.60<br>Margin<br>dB                | (cm)  112 112 112 112 112 (cm) | (°) 44 44 44 44 Degree (°) | Averag<br>Peak<br>Averag<br>Peak<br>Remark |
| MHz 5230.000 5230.000 5421.050 5421.050 Freq. MHz            | dBuV 95.51 104.72 53.44 66.81  Reading dBuV 41.28 | dB/m -4.15 -4.15 -4.68 -4.68 Factor dB/m 6.06 | Level  dBuV/m  91.36 100.57 48.76 62.13  Level  dBuV/m  47.34 | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m  68.20 54.00 | dB -5.24 -11.87 Margin dB -20.86               | (cm)  265 265 265 265 265 (cm)  Height (cm) | (°) 196 196 196 196 196  Degree (°) | Average<br>Peak<br>Average<br>Peak<br>Remark | Freq.  MHz 5230.000 5230.000 5444.420 5444.420 Freq.      | dBuV 99.25 108.96 53.58 67.20  Reading dBuV       | dB/m -4.15 -4.15 -4.80 -4.80                  | Level  dBuV/m  95.10 104.81 48.78 62.40  Level  dBuV/m        | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m        | -5.22<br>-11.60<br>Margin                      | (cm)  112 112 112 112 112 (cm) | (°) 44 44 44 44 Degree     | Averag<br>Peak<br>Averag<br>Peak           |

## 802.11ac VHT80 Mode:

|           |         |        |        |        |          |          |          | 5210    | MHz       |         |        |        |        |          |          |          |        |
|-----------|---------|--------|--------|--------|----------|----------|----------|---------|-----------|---------|--------|--------|--------|----------|----------|----------|--------|
|           |         |        | Hori   | izonta | l        |          |          |         |           |         |        | Vei    | rtical |          |          |          |        |
| Freq.     | Reading | Factor | Level  | Limit  | Margin   | n Height | Degree   | Remark  | Freq.     | Reading | Factor | Level  | Limit  | Margin   | Height   | Degree   | Remark |
| MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dE       | (cm)     | (°)      |         | MHz       | dBuV    | dB/m   | dBuV/m | dBuV/r | n dB     | (cm)     | (°)      |        |
| 5084.600  | 54.99   | -3.90  | 51.09  | 54.00  | -2.91    | 269      | 180      | Average | 5149.800  | 56.91   | -3.84  | 53.07  | 54.00  | -0.93    | 118      | 45       | Averag |
| 5084.600  | 66.82   | -3.90  | 62.92  | 74.00  | -11.08   | 269      | 180      | Peak    | 5149.800  | 68.75   | -3.84  | 64.91  | 74.00  | 9.09     | 118      | 45       | Peak   |
| 5210.000  | 91.82   | -4.17  | 87.65  |        |          | 269      | 180      | Average | 5210.000  | 94.66   | -4.17  | 90.49  |        |          | 118      | 45       | Averag |
| 5210.000  | 101.37  | -4.17  | 97.20  |        |          | 269      | 180      | Peak    | 5210.000  | 104.40  | -4.17  | 100.23 |        |          | 118      | 45       | Peak   |
| Freq. f   | Reading | Factor | Level  | Limit  | Margin H | eight De | egree Re | mark    | Freq.     | Reading | Factor | Level  | Limit  | Margin H | eight De | egree Re | emark  |
| MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB       | (cm)     | (°)      |         | MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB       | (cm)     | (°)      |        |
| 10420.000 | 41.76   | 5.99   | 47.75  | 68.20  | -20.45   | 158      | 95 Pe    | ak      | 10420.000 | 41.61   | 5.99   | 47.60  | 68.20  | -20.60   | 154      | 195 Pe   | ak     |
| 15630.000 | 33.31   | 8.93   | 42.24  | 54.00  | -11.76   | 151      | 161 Av   | erage   | 15630.000 | 33.05   | 8.93   | 41.98  | 54.00  | -12.02   | 153      | 72 Av    |        |
| 15630.000 | 43.07   | 8.93   | 52.00  | 74.00  | -22.00   | 151      | 161 Pe   | ak      | 15630.000 | 42.92   | 8.93   | 51.85  | 74.00  | -22.15   | 153      | 72 Pe    |        |
| 17796.000 | 32.10   | 12.85  | 44.95  | 54.00  | -9.05    | 150      | 168 Av   | erage   | 17830.000 | 32.13   | 12.99  | 45.12  | 54.00  | -8.88    | 150      | 176 Av   |        |
| 17796.000 | 45.16   | 12.85  | 58.01  | 74.00  | -15.99   | 150      | 168 Pe   | ak      | 17830.000 | 43.67   | 12.99  | 56.66  | 74.00  | -17.34   | 150      | 176 Pe   | eak    |

Level = Reading + Factor.

Margin = Level-Limit.

## 5250-5350MHz

802.11a Mode:

|                        |                 |                |                 |                |                 |            |            | 5260            | MHz                    |                 |                |                 |                |                  |            |          |                 |
|------------------------|-----------------|----------------|-----------------|----------------|-----------------|------------|------------|-----------------|------------------------|-----------------|----------------|-----------------|----------------|------------------|------------|----------|-----------------|
|                        |                 |                | Hori            | zontal         |                 |            |            |                 |                        |                 |                | Ver             | tical          |                  |            |          |                 |
| Freq.                  | Reading         | Factor         | Level           | Limit          | Margin          | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree   | Remark          |
| MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)      | -               |
| 5138.970               |                 | -3.83          | 49.47           | 54.00          | -4.53           | 237        | 179        | Average         | 5119.700               | 53.52           | -3.81          | 49.71           | 54.00          | -4.29            | 151        | 41       | Averag          |
| 5138.970<br>5260.000   |                 | -3.83<br>-4.13 | 62.40<br>94.42  | 74.00          | -11.60          | 237<br>237 | 179<br>179 | Peak<br>Average | 5119.700<br>5260.000   |                 | -3.81<br>-4.13 | 62.70<br>97.61  | 74.00          | -11.30           | 151<br>151 | 41<br>41 | Peak            |
| 5260.000               |                 | -4.13          | 103.60          |                |                 | 237        | 179        | Peak            | 5260.000               |                 | -4.13          | 106.94          |                |                  | 151        |          | Averag<br>Peak  |
| Freq.                  | Reading         | Factor         | Level           | Limit          | Margin          | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margir           | n Heigh    | t Degre  | e Remar         |
| MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         |                  |            |          |                 |
| 10520.000              | 42.26           | 6.15           | 48.41           | 68.20          | -19.79          | 158        | 217        | Peak            | MHZ                    | abuv            | db/m           | abuv/m          | ubuv/m         | at               | 5 (CM)     | ( )      |                 |
| 15780.000              | 35.78           | 9.90           | 45.68           | 54.00          | -8.32           | 154        | 209        | Average         | 10520.000              |                 | 6.15           | 48.67           |                | -19.5            |            |          | Peak            |
| 15780.000              | 45.67           | 9.90           | 55.57           | 74.00          | -18.43          | 154        | 209        | Peak            | 15780.000<br>15780.000 |                 | 9.90<br>9.90   | 43.58<br>54.04  | 54.00<br>74.00 |                  |            | 74<br>74 | Avera;<br>Peak  |
|                        |                 |                |                 |                |                 |            |            | 5300            | MHz                    |                 |                |                 |                |                  |            |          |                 |
|                        |                 |                | Hori            | zontal         |                 |            |            | 2000            | ·                      |                 |                | Ver             | tical          |                  |            |          |                 |
| _                      | n !!            |                | Level           | Limit          |                 |            |            |                 | _                      | D 11            |                | Level           | Limit          |                  |            |          |                 |
|                        | Reading         |                |                 |                |                 |            |            | Remark          |                        | Reading         |                |                 |                | Margin           |            |          | Kemark          |
| MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)      |                 |
| 5300.000<br>5300.000   | 99.17<br>108.57 | -4.16<br>-4.16 | 95.01<br>104.41 |                |                 | 245<br>245 | 194<br>194 | Average<br>Peak | 5300.000<br>5300.000   |                 | -4.16<br>-4.16 | 97.79<br>107.12 |                |                  | 122<br>122 | 46<br>46 | Average<br>Peak |
| Freq.                  | Reading         | Factor         | Level           | Limit          | Margin          | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree   | Remark          |
| MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)      |                 |
| 10600.000              |                 | 6.29           | 36.88           | 54.00          |                 | 151        | 74         | Average         | 10600.000              |                 | 6.29           | 37.17           | 54.00          | -16.83           | 148        |          | Average         |
| 10600.000<br>15900.000 |                 | 6.29<br>10.02  | 48.63<br>46.70  | 68.20<br>54.00 | -19.57<br>-7.30 | 151<br>169 | 74<br>62   | Peak<br>Average | 10600.000              |                 | 6.29           | 49.75           | 68.20<br>54.00 | -18.45<br>-10.04 | 148<br>157 |          | Peak<br>Average |
| 15900.000              |                 | 10.02          | 56.06           |                | -17.94          | 169        | 62         | Peak            | 15900.000              |                 | 10.02          | 55.42           | 74.00          | -18.58           | 157        | 360      | Peak            |
|                        |                 |                |                 |                |                 |            |            | 5320            | MHz                    |                 |                |                 |                |                  |            |          |                 |
|                        |                 |                | Hori            | zontal         |                 |            |            |                 |                        |                 |                | Ver             | tical          |                  |            |          |                 |
| Freq.                  | Reading         | Factor         | Level           | Limit          | Margin          | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree   | Remark          |
| MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)      |                 |
| 5320.000               |                 | -4.22          | 95.90           |                |                 | 258        | 192        | Average         | 5320.000               |                 | -4.22          | 97.49           |                |                  | 136        |          | Averag          |
| 5320.000               |                 | -4.22<br>-4.31 | 105.32<br>51.21 | 54.00          | -2.79           | 258<br>258 | 192<br>192 | Peak<br>Average | 5320.000<br>5350.860   | 111.08<br>56.13 | -4.22<br>-4.32 | 106.86<br>51.81 | 54.00          | -2.19            | 136<br>136 |          | Peak<br>Averag  |
| 5350.690               |                 | -4.31          | 64.13           | 74.00          | -9.87           | 258        | 192        | Peak            | 5350.860               |                 | -4.32          | 65.86           | 74.00          | -8.14            | 136        |          | Peak            |
| Freq.                  | Reading         | Factor         | Level           | Limit          | Margin          | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree   | Remark          |
|                        | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB              | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)      |                 |
| MHz                    |                 | 6.14           | 36.98           | 54.00          | -17.02          | 157        |            | Average         | 10640.000              | 30.71           | 6.14           | 36.85           |                | -17.15           | 150        |          | Average         |
| 10640.000              |                 |                | 48.58           | 74.00          | -25.42          | 157        | 146        | Peak            | 10640.000              | 42.35           | 6.14           | 48.49           | 74.00          | -25.51           | 150        | 132      | Peak            |
|                        |                 | 6.14<br>10.34  | 46.31           | 54.00          | -7.69           | 158        | 349        | Average         | 15960.000              | 33.61           | 10.34          | 43.95           | 54.00          | -10.05           | 159        |          | Average         |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \ Factor + Cable \ Loss - Amplifier \ Gain.$ 

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 45 of 133

# 802.11ac VHT20 Mode:

|                        |                |                |                         |                         |                           |                   |                   | 5260                       | MHz                                 |                         |                       |                         |                         |                  |            |               |                          |
|------------------------|----------------|----------------|-------------------------|-------------------------|---------------------------|-------------------|-------------------|----------------------------|-------------------------------------|-------------------------|-----------------------|-------------------------|-------------------------|------------------|------------|---------------|--------------------------|
|                        |                |                | Hori                    | zontal                  |                           |                   |                   |                            |                                     |                         |                       | Ver                     | tical                   |                  |            |               |                          |
| Freq.                  | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin           | Height     | Degree        | e Remark                 |
| MHz                    | dBuV           | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               | -                          | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| 5120.110               |                | -3.81          | 49.45                   | 54.00                   | -4.55                     | 277               | 199               | Average                    | 5105.760                            | 53.49                   | -3.80                 | 49.69                   | 54.00                   | -4.31            | 124        | 47            | Averag                   |
| 5120.110<br>5260.000   |                | -3.81<br>-4.13 | 63.17<br>94.31          | 74.00                   | -10.83                    | 277<br>277        | 199<br>199        | Peak<br>Average            | 5105.760<br>5260.000                | 65.67<br>101.40         | -3.80<br>-4.13        | 61.87<br>97.27          | 74.00                   | -12.13           | 124        |               | Peak<br>Averag           |
| 5260.000               |                | -4.13          | 103.75                  |                         |                           | 277               | 199               | Peak                       | 5260.000                            |                         | -4.13                 | 106.65                  |                         |                  | 124        | 47            | Peak                     |
| Freq.                  | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin H         | Height     | Degree        | Remark                   |
| MHz                    | dBuV           | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               |                            | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| 10520.000              | 41.83          | 6.15           | 47.98                   | 68.20                   | -20.22                    | 155               |                   | Peak                       | 10520.000                           | 43.13                   | 6.15                  | 49.28                   | 68.20                   | -18.92           | 157        | 181           | Peak                     |
| 15780.000              |                | 9.90           | 47.98                   | 54.00                   | -10.09                    | 151               |                   | Average                    | 15780.000                           | 33.11                   | 9.90                  | 43.01                   | 54.00                   | -10.99           | 155        | 21            | Average                  |
| 15780.000              | 44.09          | 9.90           | 53.99                   | 74.00                   | -20.01                    | 151               | 1                 | Peak                       | 15780.000                           | 44.00                   | 9.90                  | 53.90                   | 74.00                   | -20.10           | 155        | 21            | Peak                     |
|                        |                |                |                         |                         |                           |                   |                   | 5300                       | MHz                                 |                         |                       |                         |                         |                  |            |               |                          |
|                        |                |                | Hori                    | zontal                  |                           |                   |                   |                            |                                     |                         |                       | Ver                     | tical                   |                  |            |               |                          |
| Freq.                  | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin           | Height     | Degree        | Remark                   |
| MHz                    | dBuV           | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               |                            | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| 5300.000<br>5300.000   |                | -4.16<br>-4.16 | 94.41<br>104.68         |                         |                           | 243<br>243        | 194<br>194        | Average<br>Peak            | 5300.000<br>5300.000                |                         | -4.16<br>-4.16        | 96.97<br>106.63         |                         |                  | 135<br>135 |               | Average<br>Peak          |
| Freq.                  | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin           | Height     | Degree        | Remark                   |
| MHz                    | dBuV           | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               |                            | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| 10600.000              |                | 6.29           | 36.91                   | 54.00                   | -17.09                    | 154               | 135               | Average                    | 10600.000                           |                         |                       | 36.91                   | 54.00                   | -17.09           | 154        |               | Average                  |
| 10600.000<br>15900.000 | 42.50<br>34.81 | 6.29<br>10.02  | 48.79<br>44.83          | 68.20<br>54.00          | -19.41<br>-9.17           | 154<br>152        | 135<br>357        | Peak<br>Average            | 19600.000                           |                         |                       | 48.99                   | 68.20<br>54.00          | -19.21<br>-10.68 | 154        |               | Peak<br>Average          |
| 15900.000              |                | 10.02          | 55.86                   | 74.00                   | -18.14                    | 152               | 357               | Peak                       | 15900.000                           |                         |                       | 52.50                   | 74.00                   |                  | 158        |               | Peak                     |
|                        |                |                |                         |                         |                           |                   |                   | 5320                       | MHz                                 |                         |                       |                         |                         |                  |            |               |                          |
|                        |                |                | Hori                    | zontal                  |                           |                   |                   |                            |                                     |                         |                       | Ver                     | tical                   |                  |            |               |                          |
| Freq.                  | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin           | Height     | Degree        | e Remark                 |
| MHz                    | dBuV           | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               |                            | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| 5320.000               |                | -4.22          | 95.38                   |                         |                           | 259               |                   | Average                    | 5320.000                            | 101.05                  | -4.22                 | 96.83                   |                         |                  | 110        |               | Averag                   |
| 5320.000<br>5350.010   |                | -4.22<br>-4.31 | 105.43<br>50.22         | 54.00                   | -3.78                     | 259<br>259        |                   | Peak<br>Average            | 5320.000<br>5352.050                | 111.00<br>54.98         | -4.22<br>-4.32        | 106.78<br>50.66         | 54.00                   | -3.34            | 110<br>110 |               | Peak<br>Averag           |
| 5350.010               |                | -4.31          | 64.69                   | 74.00                   | -9.31                     | 259               |                   | Peak                       | 5352.050                            | 69.37                   | -4.32                 | 65.05                   | 74.00                   | -8.95            | 110        | 41            | Peak                     |
|                        | Reading        | Factor         | Level                   | Limit                   | Margin                    | Height            | Degree            | Remark                     | Freq.                               | Reading                 | Factor                | Level                   | Limit                   | Margin           | Height     | : Degree      | e Remark                 |
| Freq.                  |                | dB/m           | dBuV/m                  | dBuV/m                  | dB                        | (cm)              | (°)               |                            | MHz                                 | dBuV                    | dB/m                  | dBuV/m                  | dBuV/m                  | dB               | (cm)       | (°)           |                          |
| Freq.<br>MHz           | dBuV           | ab/m           |                         |                         |                           |                   |                   |                            | 1                                   |                         |                       |                         |                         |                  |            |               |                          |
| MHz<br>10640.000       | 30.68          | 6.14           | 36.82                   | 54.00                   | -17.18                    | 155               | 334               | Average                    | 10640.000                           | 30.71                   | 6.14                  | 36.85                   | 54.00                   | -17.15           | 157        | 50            | Averag                   |
| MHz                    | 30.68<br>42.79 |                | 36.82<br>48.93<br>46.08 | 54.00<br>74.00<br>54.00 | -17.18<br>-25.07<br>-7.92 | 155<br>155<br>151 | 334<br>334<br>345 | Average<br>Peak<br>Average | 10640.000<br>10640.000<br>15960.000 | 30.71<br>42.44<br>33.45 | 6.14<br>6.14<br>10.34 | 36.85<br>48.58<br>43.79 | 54.00<br>74.00<br>54.00 | -25.42           | 157        | 50<br>50<br>7 | Averag<br>Peak<br>Averag |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level-Limit.

# 802.11ac VHT40 Mode:

|  |   |  |  |   |                                 |   |  | <b>5270</b> ]   | MHz  |  |   |  |  |  |                                  |                     |  |
|--|---|--|--|---|---------------------------------|---|--|---|--|--|---|--|--|--|----------------------------------|---------------------|--|
|  |   |  | Horiz  | zontal                                    |                                 |   |  |   |  |  |   | Ver  | tical  |  |                                  |                     |  |
| Freq.  | Reading   | Factor   | Level  | Limit                                     | Margin                          | Height                                    | Degree                                 | Remark  | Freq.  | Reading  | Factor  | Level  | Limit  | Margin   | Height                           | Degree              | Remark   |
| MHz  | dBuV  | dB/m   | dBuV/m   | dBuV/m                                    | dB                              | (cm)                                      | (°)                                    |   | MHz  | dBuV   | dB/m  | dBuV/m   | dBuV/m   | dB   | (cm)                             | (°)                 |  |
| 5140,200   | 53.38   | -3.83  | 49.55  | 54.00                                     | -4.45                           | 264                                       | 194                                    | Average   | 5097.970   | 53.68  | -3.80   | 49.88  | 54.00  | -4.12  | 107                              | 40                  | Average  |
| 5140.200   |   | -3.83  | 62.35  | 74.00                                     | -11.65                          | 264                                       | 194                                    | Peak  | 5097.970   | 66.69  | -3.80   | 62.89  |  | -11.11   | 107                              |                     | Peak   |
| 5270.000   |   | -4.14  | 90.95  | 74.00                                     | 11.05                           | 264                                       | 194                                    | Average   | 5270.000   | 98.80  | -4.14   | 94.66  | , ,,,,,,   |  | 107                              |                     | Average  |
| 5270.000   |   | -4.14  | 100.60   |   |                                 | 264                                       | 194                                    | Peak  | 5270.000   | 108.29   | -4.14   | 104.15   |  |  | 107                              |                     | Peak   |
| Freq.  | Reading   | Factor   | Level  | Limit                                     | Margin                          | Height                                    | Degree                                 | Remark  | Freq.  | Reading  | Factor  | Level  | Limit  | Margin   | Height                           | Degree              | Remark   |
| MHz  | dBuV  | dB/m   | dBuV/m   | dBuV/m                                    | dB                              | (cm)                                      | (°)                                    |   | MHz  | dBuV   | dB/m  | dBuV/m   | dBuV/m   | dB   | (cm)                             | (°)                 |  |
| 10540.000  | 41.94   | 6.19   | 48.13  | 68.20                                     | -20.07                          | 159                                       | 4                                      | Peak  | 10540.000  | 42.82  | 6.19  | 49.01  | 68.20  | -19.19   | 153                              | 174                 | Peak   |
|  |   | 10.06  | 44.50  | 54.00                                     | -9.50                           | 154                                       | 2                                      | Average   | 15810.000  | 33.51  | 10.06   | 43.57  | 54.00  | -10.43   | 151                              | 298                 | Averag   |
| 15810 000  |   |  |  |   | 5.50                            |   |  | Peak  | 15810.000  | 43.82  | 10.06   | 53.88  | 74.00  | -20.12   | 151                              |                     | Peak   |
| 15810.000<br>15810.000                           |   | 10.06  | 54.63  | 74.00                                     | -19.37                          | 154                                       | 2                                      | 5310  |  |  |   |  |  |  |                                  |                     |  |
|  |   |  |  |   | -19.37                          | 154                                       |  |   |  |  |   | Ver  | rtical   |  |                                  |                     |  |
|  |   |  |  | 74.00<br>zontal                           | -19.37                          | 154                                       |  |   |  |  |   | Ver  | tical  |  |                                  |                     |  |
| 15810.000  |   |  |  |   |                                 |   | Degree                                 | 5310  | MHz  | Reading  | Factor  | Ver  | rtical   | Margin   | Height                           | : Degree            |  |
| 15810.000  | 44.57   | 10.06  | Horiz  | zontal                                    |                                 |   |  | 5310  | MHz  | Reading<br>————————————————————————————————————      | Factor dB/m                                   |  |  | Margin<br>———————————————————————————————————— |                                  |                     |  |
| Freq.<br>MHz<br>5310.000                         | Reading  dBuV 95.16   | Factor dB/m -4.20                              | Horiz Level dBuV/m 90.96   | zontal<br>Limit                           | Margin                          | Height (cm)                               | Degree (°) 191                         | 5310 Remark   | MHz  |  |   | Level  | Limit  |  |                                  | : Degree            |  |
| Freq.<br>MHz<br>5310.000                         | 44.57  Reading  dBuV  95.16 104.84                                  | Factor  dB/m  -4.20 -4.20                      | Horiz Level dBuV/m 90.96 100.64                                      | Zontal<br>Limit                           | Margin<br>dB                    | Height (cm) 257 257                       | Degree (°) 191 191                     | Remark Average Peak                                   | MHz  Freq.  MHz  | dBuV<br>97.16<br>106.60                              | dB/m  | Level<br>dBuV/m<br>92.96<br>102.40                           | Limit  |  | (cm)                             | : Degree            | e Remari   |
| Freq. MHz 5310.000 5352.390                      | Reading dBuV 95.16 104.84 56.57                                     | Factor  dB/m  -4.20 -4.29 -4.33                | Horiz Level  dBuV/m 90.96 100.64 52.24                               | zontal Limit dBuV/m                       | Margin dB                       | Height (cm) 257 257 257                   | Degree (°) 191 191 191                 | 5310 ]  Remark  Average Peak Average                  | Freq.  MHz  5310.000   | dBuV<br>97.16  | dB/m  | Level<br>dBuV/m<br>92.96                                     | Limit  |  | (cm)<br>104<br>104               | : Degree (°)        | e Remar<br>-<br>-<br>Avera<br>Peak                 |
| Freq.<br>MHz<br>5310.000                         | Reading dBuV 95.16 104.84 56.57                                     | Factor  dB/m  -4.20 -4.20                      | Horiz Level dBuV/m 90.96 100.64                                      | Zontal<br>Limit                           | Margin<br>dB                    | Height (cm) 257 257                       | Degree (°) 191 191                     | Remark Average Peak                                   | Freq.  MHz  5310.000 5310.000                                | dBuV<br>97.16<br>106.60                              | dB/m<br>-4.20<br>-4.20                        | Level<br>dBuV/m<br>92.96<br>102.40                           | Limit<br>—<br>dBuV/m                             | dB   | (cm)<br>104<br>104<br>104        | Degree (°) 43 43    | e Remari<br>- ———————————————————————————————————— |
| Freq. MHz 5310.000 5352.390                      | Reading dBuV 95.16 104.84 56.57                                     | Factor  dB/m  -4.20 -4.29 -4.33                | Horiz Level  dBuV/m 90.96 100.64 52.24                               | zontal Limit dBuV/m                       | Margin<br>dB<br>-1.76<br>-4.91  | Height (cm) 257 257 257 257               | Degree (°) 191 191 191 191             | 5310 ]  Remark  Average Peak Average                  | Freq.  MHz  5310.000 5350.010 5350.010                       | dBuV<br>97.16<br>106.60<br>57.51                     | dB/m -4.20 -4.20 -4.31                        | Level<br>dBuV/m<br>92.96<br>102.40<br>53.20                  | Limit<br>dBuV/m                                  | -0.80<br>-4.28                                 | (cm)<br>104<br>104<br>104<br>104 | Degree (°) 43 43 43 | Avera<br>Peak<br>Avera<br>Peak                     |
| Freq. MHz 5310.000 5352.390                      | Reading  dBuV  95.16 104.84 56.57 73.42 Reading                     | Factor  dB/m  -4.20 -4.33 -4.33                | Horiz  Level  dBuV/m  90.96 100.64 52.24 69.09                       | Limit  dBuV/m  54.00 74.00                | Margin<br>dB<br>-1.76<br>-4.91  | Height (cm) 257 257 257 257               | Degree (°) 191 191 191 191             | S310 ]  Remark  Average Peak  Average Peak            | Freq.  MHz  5310.000 5350.010 5350.010                       | dBuV<br>97.16<br>106.60<br>57.51<br>74.03            | -4.20<br>-4.20<br>-4.31<br>-4.31              | Level  dBuV/m  92.96 102.40 53.20 69.72                      | Limit<br>dBuV/m<br>54.00<br>74.00                | -0.80<br>-4.28                                 | (cm)<br>104<br>104<br>104<br>104 | Degree (°) 43 43 43 | Avera<br>Peak<br>Avera<br>Peak                     |
| Freq.  5310.000 5310.000 5352.390 Freq.          | Reading    dBuV   95.16   104.84   56.57   73.42   Reading     dBuV | Factor  dB/m -4.20 -4.33 -4.33                 | Hori: Level  dBuV/m  90.96 100.64 52.24 69.09  Level                 | Limit dBuV/m 54.00 74.00 Limit            | Margin  dB  -1.76 -4.91  Margin | Height (cm) 257 257 257 257 Height (cm)   | Degree (°) 191 191 191 191             | S310 ]  Remark  Average Peak  Average Peak            | Freq.  MHz  5310.000 5350.010 5350.010 Freq.                 | dBuV<br>97.16<br>106.60<br>57.51<br>74.03<br>Reading | dB/m -4.20 -4.20 -4.31 -4.31 Factor dB/m      | Level  dBuV/m  92.96 102.40 53.20 69.72  Level               | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m        | -0.80<br>-4.28<br>Margin                       | (cm)  104 104 104 104 104 (cm)   | Degree (°)          | Averal<br>Peak<br>Averal<br>Peak<br>Remark         |
| Freq. MHz 5310.000 5310.000 5352.390 Freq. MHz   | Reading  dBuV  95.16 104.84 56.57 73.42  Reading  dBuV  31.41       | Factor  dB/m  -4.20 -4.33 -4.33 Factor  dB/m   | Hori: Level  dBuV/m  90.96 100.64 52.24 69.09 Level                  | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m | Margin -1.76 -4.91 Margin dB    | Height (cm) 257 257 257 257 Height (cm)   | Degree (°) 191 191 191 191 (°)         | Remark  Average Peak Average Peak Remark              | Freq.  MHz  5310.000 5350.010 5350.010  Freq.  MHz 10620.000 | dBuV 97.16 106.60 57.51 74.03  Reading dBuV 31.21    | dB/m -4.20 -4.20 -4.31 -4.31 Factor dB/m 6.22 | Level  dBuV/m  92.96 102.40 53.20 69.72  Level  dBuV/m 37.43 | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m  54.00 | -0.80<br>-4.28<br>Margin<br>dB                 | (cm)  104 104 104 104 (cm)  150  | Degree              | Average Remark                                     |
| Freq.  MHz 5310.000 5310.000 5312.390 Freq.  MHz | Reading  dBuV  95.16 104.84 56.57 73.42  Reading  dBuV  31.41 42.27 | Factor  -4.20 -4.23 -4.33  Factor  dB/m  -6.22 | Horiz  Level  dBuV/m  90.96 100.64 52.24 69.09  Level  dBuV/m  37.63 | Limit dBuV/m 54.00 74.00 Limit dBuV/m     | Margin -1.76 -4.91 Margin dB    | Height (cm) 257 257 257 (cm) (cm) 155 155 | Degree (°) 191 191 191 191 191 (°) 140 | Remark  Average Peak  Remark  Average Average Average | Freq.  MHz  5310.000 5350.010 5350.010 Freq.                 | dBuV<br>97.16<br>106.60<br>57.51<br>74.03<br>Reading | dB/m -4.20 -4.20 -4.31 -4.31 Factor dB/m      | Level  dBuV/m  92.96 102.40 53.20 69.72  Level               | Limit  dBuV/m  54.00 74.00  Limit  dBuV/m        | -0.80<br>-4.28<br>Margin                       | (cm)  104 104 104 104 104 (cm)   | Degree (°)          | Avera,<br>Peak<br>Avera,<br>Peak                   |

# 802.11ac VHT80 Mode:

|  |                                   |                                  |                                  |                |                 |                          |            | 5290                               | MHz  |                                   |                                  |                                  |                |                 |                          |           |                                    |
|--|-----------------------------------|----------------------------------|----------------------------------|----------------|-----------------|--------------------------|------------|------------------------------------|--|-----------------------------------|----------------------------------|----------------------------------|----------------|-----------------|--------------------------|-----------|------------------------------------|
|  |                                   |                                  | Hori                             | zontal         |                 |                          |            |                                    |  |                                   |                                  | Ver                              | tical          |                 |                          |           |                                    |
| Freq.  | Reading                           | Factor                           | Level                            | Limit          | Margin          | Height                   | Degree     | Remark                             | Freq.  | Reading                           | Factor                           | Level                            | Limit          | Margin          | Height                   | Degree    | Remark                             |
| MHz  | dBuV                              | dB/m                             | dBuV/m                           | dBuV/m         | dB              | (cm)                     | (°)        |                                    | MHz  | dBuV                              | dB/m                             | dBuV/m                           | dBuV/m         | dB              | (cm)                     | (°)       |                                    |
| 5290.000<br>5290.000<br>5350.800<br>5350.800 | 91.11<br>100.48<br>56.80<br>68.72 | -4.16<br>-4.16<br>-4.31<br>-4.31 | 86.95<br>96.32<br>52.49<br>64.41 | 54.00<br>74.00 | -1.51<br>-9.59  | 265<br>265<br>265<br>265 | 192<br>192 | Average<br>Peak<br>Average<br>Peak | 5290.000<br>5290.000<br>5351.220<br>5351.220 | 94.23<br>103.54<br>57.81<br>70.73 | -4.16<br>-4.16<br>-4.32<br>-4.32 | 90.07<br>99.38<br>53.49<br>66.41 | 54.00<br>74.00 | -0.51<br>-7.59  | 108<br>108<br>108<br>108 | 42<br>42  | Average<br>Peak<br>Average<br>Peak |
| Freq.  | Reading                           | Factor                           | Level                            | Limit          | Margin          | Height                   | t Degree   | e Remark                           | Freq.  | Reading                           | Factor                           | Level                            | Limit          | Margin          | Height                   | Degree    | Remar                              |
| MHz  | dBuV                              | dB/m                             | dBuV/m                           | dBuV/m         | dB              | (cm)                     | (°)        |                                    | MHz  | dBuV                              | dB/m                             | dBuV/m                           | dBuV/m         | dB              | (cm)                     | (°)       |                                    |
| 0580.000<br>5870.000                         | 41.69<br>34.26                    | 6.26<br>10.03                    | 47.95<br>44.29                   | 68.20<br>54.00 | -20.25<br>-9.71 | 158<br>152               | 194<br>40  | Peak<br>Average                    | 10580.000<br>15870.000                       | 42.81<br>34.06                    | 6.26<br>10.03                    | 49.07<br>44.09                   | 68.20<br>54.00 | -19.13<br>-9.91 | 151<br>156               | 305<br>96 |                                    |
| 15870.000                                    | 42.68                             | 10.03                            | 52.71                            | 74.00          |                 | 152                      | 40         | Peak                               | 15870.000                                    |                                   | 10.03                            | 53.37                            | 74.00          | -20.63          | 156                      | 96        |                                    |

Level = Reading + Factor.

Margin = Level-Limit.

## 5470-5725MHz

## 802.11a Mode:

|  |   |                                 |  |                                     |                 |   |                                 | 5500                    | VIHZ                                    |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|--|---|---------------------------------|--|-------------------------------------|-----------------|---|---------------------------------|-------------------------|---|---|---------------------------------|------------------------------------|-----------------------------|---------------------------|---------------------------------|---------------------------------|------------------------------------|
|  |   |                                 | Horiz  | zontal                              |                 |   |                                 |                         |   |   |                                 | Ver                                | tical                       |                           |                                 |                                 |                                    |
| Freq.  | Reading                                       | Factor                          | Level  | Limit                               | Margin          | Height                                  | Degree                          | Remark                  | Freq.                                   | Reading                                     | Factor                          | Level                              | Limit                       | Margin                    | Height                          | t Degree                        | e Remark                           |
| MHz  | dBuV  | dB/m                            | dBuV/m                                       | dBuV/m                              | dB              | (cm)                                    | (°)                             |                         | MHz                                     | dBuV  | dB/m                            | dBuV/m                             | dBuV/m                      | dB                        | (cm)                            | (°)                             |                                    |
| 5459.840   | 54.93   | -4.81                           | 50.12  | 54.00                               | -3.88           | 122                                     | 196                             | Average                 | 5459.500                                | 54.61                                       | -4.81                           | 49.80                              | 54.00                       | -4.20                     | 136                             | 42                              | Average                            |
| 5459.840<br>5500.000                             | 68.78   | -4.81<br>-4.78                  | 63.97<br>99.23                               |                                     | -10.03          |   | 196                             | Peak<br>Average         | 5459.500                                | 68.25<br>100.35                             | -4.81<br>-4.78                  | 63.44<br>95.57                     |                             | -10.56                    |                                 | 42                              | Peak                               |
| 5500.000   |   | -4.78                           | 108.80                                       |                                     |                 | 122                                     |                                 | Peak                    |   | 109.93                                      | -4.78                           | 105.15                             |                             |                           | 136                             | 42                              | Average<br>Peak                    |
|  |   |                                 |  |                                     |                 |   |                                 |                         |   |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|  | Reading                                       |                                 | Level  | Limit                               |                 |   |                                 | Remark                  | Freq.                                   | Reading                                     | Factor                          | Level                              | Limit                       | Margin                    | Height                          | Degree                          | Remark                             |
| MHz  | dBuV  | dB/m                            | dBuV/m                                       | dBuV/m                              | dB              | (cm)                                    | (°)                             |                         | MHz                                     | dBuV  | dB/m                            | dBuV/m                             | dBuV/m                      | dB                        | (cm)                            | (°)                             |                                    |
| 11000.000  |   | 6.84                            | 37.54  |                                     | -16.46          | 150                                     |                                 | Average                 | 11000.000                               | 30.58                                       | 6.84                            | 37.42                              | 54.00                       | -16.58                    | 155                             |                                 | Average                            |
| 11000.000<br>16500.000                           |   | 6.84<br>11.78                   | 48.73<br>67.85                               | 68.20                               | -25.27<br>-0.35 | 150<br>170                              |                                 | Peak<br>Peak            | 11000.000<br>16500.000                  |   | 6.84                            | 49.53<br>61.12                     | 74.00<br>68.20              | -24.47<br>-7.08           | 155<br>186                      | 78<br>360                       | Peak<br>Peak                       |
|  |   |                                 |  |                                     |                 |   |                                 |                         |   |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|  |   |                                 |  |                                     |                 |   |                                 | 5580                    | MHz                                     |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|  |   |                                 | Horiz  | zontal                              |                 |   |                                 |                         |   |   |                                 | Ver                                | tical                       |                           |                                 |                                 |                                    |
| Freq.  | Reading                                       | Factor                          | Level  | Limit                               | Margin          | Height                                  | Degree                          | Remark                  | Freq.                                   | Reading                                     | Factor                          | Level                              | Limit                       | Margin                    | Height                          | Degree                          | e Remark                           |
| MHz  | dBuV  | dB/m                            | dBuV/m                                       | dBuV/m                              | dB              | (cm)                                    | (°)                             |                         | MHz                                     | dBuV  | dB/m                            | dBuV/m                             | dBuV/m                      | dB                        | (cm)                            | (°)                             |                                    |
| 5580.000   | 104.31  | -4.71                           | 99.60  |                                     |                 | 112                                     | 198                             | Average                 | 5580.000                                | 100.68                                      | -4.71                           | 95.97                              |                             |                           | 131                             | 44                              | Averag                             |
| 5580.000   | 113.83  | -4.71                           | 109.12                                       |                                     |                 | 112                                     | 198                             | Peak                    | 5580.000                                | 110.23                                      | -4.71                           | 105.52                             |                             |                           | 131                             |                                 | Peak                               |
| Freq.  | Reading                                       | Factor                          | Level  | Limit                               | Margin          | Height                                  | Degree                          | Remark                  | Eren                                    | Reading                                     | Factor                          | Level                              | Limit                       | Margin                    | Height                          | Dognee                          | Romank                             |
| MHz  | dBuV  | dB/m                            | dBuV/m                                       | dBuV/m                              | dB              | (cm)                                    | (°)                             |                         | MHz                                     | dBuV  | dB/m                            | dBuV/m                             | dBuV/m                      |                           | (cm)                            | (°)                             |                                    |
| 11160.000  | 30.76   | 6.96                            | 37.72  | 54.00                               | -16.28          | 154                                     | 182                             | Average                 | 0.000                                   |   |                                 |                                    |                             |                           | 7                               | 1                               |                                    |
| 11160.000<br>16740.000                           |   | 6.96<br>11.62                   | 49.35<br>67.52                               | 74.00<br>68.20                      | -24.65<br>-0.68 |   |                                 | Peak<br>Peak            | 11160.000<br>11160.000<br>16740.000     | 30.51<br>43.08<br>47.28                     | 6.96<br>6.96<br>11.62           | 37.47<br>50.04<br>58.90            |                             | -16.53<br>-23.96<br>-9.30 | 153<br>153<br>151               | 123                             | Average<br>Peak<br>Peak            |
|  |   |                                 |  |                                     |                 |   |                                 | 5700                    | MUa                                     |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|  |   |                                 |  |                                     |                 |   |                                 | 5/00                    | VIПZ                                    |   |                                 | Vor                                | tical                       |                           |                                 |                                 |                                    |
|  |   |                                 | Horiz  | zontal                              |                 |   |                                 |                         |   |   |                                 |                                    |                             |                           |                                 |                                 |                                    |
|  |   |                                 | Horiz  | zontal                              |                 |   |                                 |                         |   |   |                                 | ver                                | ticai                       |                           |                                 |                                 |                                    |
|  | Reading                                       |                                 | Level  | Limit                               |                 |   |                                 | e Remark                | Freq. R                                 | eading                                      | Factor                          | Level                              |                             | Margin H                  | Height                          |                                 | Remark                             |
| MHz  | dBuV  | dB/m                            | Level<br>dBuV/m                              |                                     |                 | (cm)                                    | (°)                             |                         | MHz                                     | dBuV  | dB/m                            | Level                              |                             |                           | deight<br>(cm)                  | Degree<br>(°)                   | Remark                             |
| MHz<br>5700.000                                  | dBuV  | dB/m                            | Level<br>dBuV/m                              | Limit                               |                 | (cm)                                    | (°)                             | Average                 | MHz 5700.000                            | dBuV 98.91                                  | dB/m<br>-5.31                   | Level dBuV/m 93.60                 | Limit                       |                           | (cm)                            | (°)                             | Average                            |
| MHz  | dBuV<br>106.19<br>115.69                      | dB/m                            | Level<br>dBuV/m                              | Limit                               |                 | (cm)                                    | (°)                             | Average<br>Peak         | MHz 5700.000                            | dBuV  | dB/m                            | Level                              | Limit                       |                           | (cm)                            | (°)                             | Average                            |
| MHz<br>5700.000<br>5700.000<br>5725.000          | dBuV<br>106.19<br>115.69                      | dB/m<br>-5.31<br>-5.31<br>-5.27 | Level<br>dBuV/m<br>100.88<br>110.38          | Limit<br>dBuV/m                     | -3.17           | 122<br>122<br>122                       | (°) 201 201 201                 | Average<br>Peak         | MHz<br>5700.000<br>5700.000<br>5725.000 | dBuV<br>98.91<br>108.34                     | dB/m<br>-5.31<br>-5.31<br>-5.27 | Level<br>dBuV/m<br>93.60<br>103.03 | Limit<br>dBuV/m             | dB -6.26                  | (cm)<br>129<br>129<br>129       | (°) 38 38 38                    | Average<br>Peak<br>Peak            |
| MHz<br>5700.000<br>5700.000<br>5725.000          | dBuV<br>106.19<br>115.69<br>70.30             | dB/m<br>-5.31<br>-5.31<br>-5.27 | Level<br>dBuV/m<br>100.88<br>110.38<br>65.03 | Limit<br>dBuV/m<br>68.20            | -3.17           | 122<br>122<br>122<br>122                | (°) 201 201 201                 | Average<br>Peak<br>Peak | MHz<br>5700.000<br>5700.000<br>5725.000 | 98.91<br>108.34<br>67.21                    | dB/m<br>-5.31<br>-5.31<br>-5.27 | Devel dBuV/m 93.60 103.03 61.94    | Limit dBuV/m 68.20          | dB -6.26                  | (cm)<br>129<br>129<br>129       | (°) 38 38 38                    | Average<br>Peak<br>Peak<br>e Remar |
| MHz<br>5700.000<br>5700.000<br>5725.000<br>Freq. | dBuV  106.19 115.69 70.30  Reading dBuV 31.77 | dB/m -5.31 -5.31 -5.27          | dBuV/m<br>100.88<br>110.38<br>65.03          | Limit  dBuV/m  68.20  Limit  dBuV/m | -3.17 Margin dB | (cm)  122 122 122 122 (cm)  Height (cm) | (°) 201 201 201  Degree (°) 244 | Average<br>Peak<br>Peak | MHz 5700.000 5700.000 5725.000 Freq.    | dBuV<br>98.91<br>108.34<br>67.21<br>Reading | dB/m -5.31 -5.31 -5.27          | dBuV/m<br>93.60<br>103.03<br>61.94 | Limit  dBuV/m  68.20  Limit | dB<br>-6.26<br>Margir     | 129<br>129<br>129<br>129<br>129 | (°)  38 38 38 38  t Degree  (°) | Average<br>Peak<br>Peak<br>e Remar |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level-Limit.

# 802.11ac VHT20 Mode:

|   |  |                                    |  |                                     |                                 |                               |                                 | 5500                              |  |   |                                    |   |                           |                       |                                     |                         |                                   |
|---|--|------------------------------------|--|-------------------------------------|---------------------------------|-------------------------------|---------------------------------|-----------------------------------|--|---|------------------------------------|---|---------------------------|-----------------------|-------------------------------------|-------------------------|-----------------------------------|
|   |  |                                    | Hori   | zontal                              |                                 |                               |                                 |                                   |  |   |                                    | Ver   | tical                     |                       |                                     |                         |                                   |
| Freq.   | Reading  | Factor                             | Level  | Limit                               | Margin                          | Height                        | Degree                          | Remark                            | Freq.  | Reading                                     | Factor                             | Level                                       | Limit                     | Margin                | Height                              | t Degre                 | e Remark                          |
| MHz   | dBuV   | dB/m                               | dBuV/m   | dBuV/m                              | dB                              | (cm)                          | (°)                             |                                   | MHz  | dBuV  | dB/m                               | dBuV/m                                      | dBuV/m                    | dB                    | (cm)                                | (°)                     | -                                 |
| 5458.820                                      | 55.06  | -4.81                              | 50.25  | 54.00                               | -3.75                           | 123                           | 195                             | Average                           | 5459.330   | 54.33                                       | -4.81                              | 49.52                                       | 54.00                     | -4.48                 | 116                                 | 43                      | Averag                            |
| 5458.820<br>5500.000                          | 70.11  | -4.81<br>-4.78                     | 65.30<br>98.71                                   | 74.00                               | -8.70                           | 123<br>123                    | 195<br>195                      | Peak<br>Average                   | 5459.330   | 68.66                                       | -4.81                              | 63.85                                       |                           | -10.15                |                                     | 43                      | Peak                              |
| 5500.000                                      |  | -4.78                              | 108.44   |                                     |                                 | 123                           |                                 | Peak                              | 5500.000<br>5500.000                             | 99.94                                       | -4.78<br>-4.78                     | 95.16<br>105.06                             |                           |                       | 116<br>116                          |                         | Averag<br>Peak                    |
|   |  |                                    |  |                                     |                                 |                               |                                 |                                   | 3300.000   | 105.04                                      | -4.70                              | 103.00                                      |                           |                       | 110                                 | 43                      | reak                              |
| Freq.   | Reading  | Factor                             | Level  | Limit                               | Margin                          | Height                        | Degree                          | Remark                            | Enon   | Reading                                     | Easton                             | Level                                       | Limit                     | Margin                | Hoight                              | Dognoo                  | Romank                            |
| MHz   | dBuV   | dB/m                               | d8uV/m   | dBuV/m                              | dB                              | (cm)                          | (°)                             |                                   |  |   |                                    |   |                           |                       |                                     |                         | Kelliark                          |
| 11000.000                                     | 30.88  | 6.84                               | 37.72  | 54.00                               | -16.28                          | 159                           | 52                              | Average                           | MHz  | dBuV  | dB/m                               | dBuV/m                                      | dBuV/m                    | dB                    | (cm)                                | (°)                     |                                   |
| 11000.000                                     |  | 6.84                               | 48.49  | 74.00                               | -25.51                          | 159                           | 52                              | Peak                              | 11000.000  | 31.17                                       | 6.84                               | 38.01                                       | 54.00                     | -15.99                | 151                                 | 103                     | Average                           |
| 16500.000                                     | 55.07  | 11.78                              | 66.85  | 68.20                               | -1.35                           | 165                           | 1                               | Peak                              | 11000.000  | 43.30                                       | 6.84                               | 50.14                                       |                           | -23.86                | 151                                 |                         | Peak                              |
|   |  |                                    |  |                                     |                                 |                               |                                 |                                   | 16500.000  | 45.52                                       | 11.78                              | 57.30                                       | 68.20                     | -10.90                | 153                                 | 357                     | Реак                              |
|   |  |                                    |  |                                     |                                 |                               |                                 | 5580                              | MHz  |   |                                    |   |                           |                       |                                     |                         |                                   |
|   |  |                                    | Hori   | zontal                              |                                 |                               |                                 |                                   |  |   |                                    | Ver   | tical                     |                       |                                     |                         |                                   |
| Enoa  | Reading  | Factor                             | Level  | Limit                               | Margin                          | ⊌oj ght                       | Dognoo                          | Romank                            | Enog   | Reading                                     | Easton                             | Level                                       | Limit                     | Margin                | Hoight                              | Dognoo                  | Romank                            |
|   |  |                                    |  |                                     |                                 |                               |                                 |                                   |  |   |                                    |   |                           |                       |                                     |                         | IVEIII ai K                       |
| MHz   | dBuV   | dB/m                               | dBuV/m   | dBuV/m                              | dB                              | (cm)                          | (°)                             |                                   | MHz  | dBuV  | dB/m                               | dBuV/m                                      | dBuV/m                    | dB                    | (cm)                                | (°)                     |                                   |
| 5580.000                                      |  | -4.71                              | 98.98  |                                     |                                 | 113                           |                                 | Average                           | 5580.000   | 99.26                                       | -4.71                              | 94.55                                       |                           |                       | 148                                 |                         | Averag                            |
| 5580.000                                      | 113.77   | -4.71                              | 109.06   |                                     |                                 | 113                           | 197                             | Peak                              | 5580.000   | 109.37                                      | -4.71                              | 104.66                                      |                           |                       | 148                                 | 41                      | Peak                              |
| Freq.   | Reading  | Factor                             | Level  | Limit                               | Margin                          | Height                        | Degree                          | Remark                            | Freq.  | Reading                                     | Factor                             | Level                                       | Limit                     | Margin                | Height                              | Degree 1                | Remark                            |
| MHz   | dBuV   | dB/m                               | dBuV/m   | dBuV/m                              | dB                              | (cm)                          | (°)                             |                                   | MHz  | dBuV  | dB/m                               | dBuV/m                                      | dBuV/m                    | dB                    | (cm)                                | (°)                     |                                   |
|   | 20.01  |                                    |  |                                     | 46.00                           | 450                           |                                 |                                   | 11160.000  | 30.54                                       | 6.96                               | 37.50                                       | 54.00                     | -16.50                | 152                                 | 27                      | Average                           |
| 11160.000<br>11160.000                        |  | 6.96<br>6.96                       | 37.80<br>49.18                                   | 74.00                               | -16.20<br>-24.82                |                               | 336<br>336                      | Average<br>Peak                   | 11160.000  | 41.80                                       | 6.96                               | 48.76                                       | 74.00                     | -25.24                | 152                                 | 27 1                    | Peak                              |
| 16740.000                                     | 54.77  | 11.62                              | 66.39  | 68.20                               | -1.81                           | 143                           | 360                             | Peak                              | 16740.000  | 45.68                                       | 11.62                              | 57.30                                       | 68.20                     | -10.90                | 155                                 | 179                     | reak                              |
|   |  |                                    |  |                                     |                                 |                               |                                 | 5700                              | MHz  |   |                                    |   |                           |                       |                                     |                         |                                   |
|   |  |                                    |  | zontol                              |                                 |                               |                                 |                                   |  |   |                                    | Ver   | tical                     |                       |                                     |                         |                                   |
|   |  |                                    | Hori   | ZUIITAI                             |                                 |                               |                                 |                                   |  |   |                                    |   |                           |                       |                                     |                         |                                   |
| Freq. R                                       | eading F   | actor                              | Hori<br>Level                                    |                                     | Margin H                        | Height                        | Degree                          | Remark                            | Freq. R  | eading                                      | Factor                             | Level                                       | Limit                     | Margin H              | Height                              | Degree                  | Remark                            |
| Freq. Ro                                      | eading F   | actor<br>dB/m                      |  |                                     | Margin H                        | Height<br>(cm)                | Degree<br>(°)                   | Remark                            | Freq. R  | eading<br>—<br>dBuV                         | Factor<br>dB/m                     | Level dBuV/m                                | Limit<br>dBuV/m           |                       | Height<br>(cm)                      | Degree<br>(°)           | Remark                            |
| MHz   | dBuV   | dB/m                               | Level dBuV/m                                     | Limit                               | Margin H                        | (cm)                          | (°)                             |                                   | MHz  | dBuV  | dB/m                               | dBuV/m                                      |                           |                       | (cm)                                | (°)                     |                                   |
| MHz<br>700.000                                | dBuV<br>104.77<br>114.82                             | dB/m -5.31 -5.31                   | dBuV/m<br>99.46<br>109.51                        | Limit<br>dBuV/m                     | Margin H                        | (cm)<br>122<br>122            | (°)<br>201<br>201               | Average<br>Peak                   | MHz 5700.000                                     |   |                                    |   |                           |                       |                                     | (°)                     |                                   |
| MHz<br>700.000                                | dBuV   | dB/m -5.31                         | Level<br>dBuV/m                                  | Limit                               | Margin H                        | (cm)                          | (°)                             | Average<br>Peak                   | MHz 5700.000                                     | dBuV<br>97.10                               | dB/m<br>-5.31                      | dBuV/m 91.79                                |                           |                       | (cm)                                | (°) 40 40               | Average                           |
| MHz<br>700.000<br>700.000<br>725.000          | dBuV<br>104.77<br>114.82                             | dB/m -5.31 -5.31 -5.27             | dBuV/m<br>99.46<br>109.51                        | Limit<br>dBuV/m                     | Margin H                        | (cm)<br>122<br>122<br>122     | (°) 201 201 201                 | Average<br>Peak<br>Peak           | MHz<br>5700.000<br>5700.000<br>5725.000          | dBuV<br>97.10<br>107.23                     | dB/m<br>-5.31<br>-5.31<br>-5.27    | dBuV/m<br>91.79<br>101.92                   | dBuV/m                    | dB -5.83              | (cm)<br>129<br>129<br>129           | (°) 40 40 40            | Average<br>Peak<br>Peak           |
| MHz<br>700.000<br>700.000<br>725.000          | dBuV<br>104.77<br>114.82<br>72.07                    | dB/m -5.31 -5.31 -5.27             | Devel dBuV/m 99.46 109.51 66.80                  | Limit  dBuV/m  68.20                | Margin H                        | (cm)<br>122<br>122<br>122     | (°) 201 201 201                 | Average<br>Peak<br>Peak           | MHz<br>5700.000<br>5700.000<br>5725.000          | dBuV<br>97.10<br>107.23<br>67.64            | dB/m -5.31 -5.31 -5.27 Factor      | 91.79<br>101.92<br>62.37<br>Level           | dBuV/m 68.20 Limit        | dB -5.83              | (cm)<br>129<br>129<br>129<br>Height | (°) 40 40 40 Degree     | Average<br>Peak<br>Peak           |
| MHz 700.000 700.000 725.000 Freq.             | dBuV<br>104.77<br>114.82<br>72.07<br>Reading<br>dBuV | dB/m -5.31 -5.31 -5.27 Factor dB/m | Devel  dBuV/m  99.46 109.51 66.80  Level  dBuV/m | Limit  dBuV/m  68.20  Limit  dBuV/m | Margin H  dB  -1.40  Margin  dB | (cm)  122 122 122 Height (cm) | (°) 201 201 201 Degree (°)      | Average<br>Peak<br>Peak<br>Remark | MHz 5700.000 5700.000 5725.000  Freq. MHz        | 97.10<br>107.23<br>67.64<br>Reading         | dB/m -5.31 -5.31 -5.27 Factor dB/m | dBuV/m<br>91.79<br>101.92<br>62.37<br>Level | dBuV/m 68.20 Limit dBuV/m | dB<br>-5.83<br>Margin | (cm)  129 129 129 Height (cm)       | (°) 40 40 40 Degree (°) | Average<br>Peak<br>Peak<br>Remark |
| MHz<br>700.000<br>700.000<br>725.000<br>Freq. | dBuV<br>104.77<br>114.82<br>72.07                    | dB/m -5.31 -5.31 -5.27 Factor      | dBuV/m<br>99.46<br>109.51<br>66.80<br>Level      | Limit  dBuV/m  68.20  Limit         | Margin H  dB  -1.40  Margin     | (cm) 122 122 122 Height       | (°) 201 201 201 201  Degree (°) | Average<br>Peak<br>Peak           | MHz<br>5700.000<br>5700.000<br>5725.000<br>Freq. | dBuV<br>97.10<br>107.23<br>67.64<br>Reading | dB/m -5.31 -5.31 -5.27 Factor      | 91.79<br>101.92<br>62.37<br>Level           | dBuV/m 68.20 Limit        | dB<br>-5.83<br>Margin | (cm)<br>129<br>129<br>129<br>Height | (°) 40 40 40 Degree (°) | Average<br>Peak<br>Peak           |

Level = Reading + Factor.

Margin = Level - Limit.

# 802.11ac VHT40 Mode:

|                                     |                 |                |                 |                |                  |            |            | 5510            | MHz                    |                 |                |                 |                |                  |            |            |                 |
|-------------------------------------|-----------------|----------------|-----------------|----------------|------------------|------------|------------|-----------------|------------------------|-----------------|----------------|-----------------|----------------|------------------|------------|------------|-----------------|
|                                     |                 |                | Hori            | izontal        | l                |            |            |                 |                        |                 |                | Vei             | rtical         |                  |            |            |                 |
| Freq.                               | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | . Remark        |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| 5453.720                            |                 | -4.83          | 53.26           | 54.00          | -0.74            | 275        | 197        | Average         | 5459.670               | 57.00           | -4.81          | 52.19           | 54.00          | -1.81            | 160        | 41         | Average         |
| 5453.720<br>5510.000                |                 | -4.83<br>-4.76 | 66.08<br>96.06  | 74.00          | -7.92            | 275<br>275 | 197<br>197 | Peak<br>Average | 5459.670<br>5510.000   |                 | -4.81<br>-4.76 | 65.30<br>92.52  | 74.00          | -8.70            | 160<br>160 |            | Peak<br>Average |
| 5510.000                            |                 | -4.76          | 105.48          |                |                  | 275        | 197        | Peak            | 5510.000               |                 | -4.76          | 102.50          |                |                  | 160        |            | Peak            |
| Freq.                               | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          | Freq                   | . Reading       | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 | MH                     | z dBu\          | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| 11020.000                           | 30.78           | 6.83           | 37.61           | 54.00          | -16.39           | 157        | 170        | Average         | 11020.000              | 9 31.17         | 6.83           | 38.00           | 54.00          | -16.00           | 156        | 190        | Average         |
| 11020.000<br>16530.000              |                 | 6.83<br>11.90  | 48.41<br>62.53  | 74.00<br>68.20 | -25.59<br>-5.67  | 157<br>169 |            | Peak<br>Peak    | 11020.000<br>16530.000 |                 |                | 48.69<br>57.21  | 74.00<br>68.20 | -25.31<br>-10.99 | 156<br>158 | 190<br>359 | Peak<br>Peak    |
|                                     |                 |                |                 |                |                  |            |            | 5550            | MHz                    |                 |                |                 |                |                  |            |            |                 |
|                                     |                 |                | Hori            | izontal        | 1                |            |            | 3330            | I I                    |                 |                | Voi             | rtical         |                  |            |            |                 |
|                                     |                 |                | 11011           | ZUIITA         |                  |            |            |                 |                        |                 |                | VCI             | ucai           |                  |            |            |                 |
| Freq. 1                             | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          | Freq. I                | Reading         | Factor         | Level           | Limit          | Margin H         | leight     | Degree     | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| 5550.000<br>5550.000                | 99.19<br>108.84 | -4.65<br>-4.65 | 94.54<br>104.19 |                |                  | 161<br>161 |            | Average<br>Peak | 5550.000<br>5550.000   | 95.36<br>104.94 | -4.65<br>-4.65 | 90.71<br>100.29 |                |                  | 241<br>241 |            | Average<br>Peak |
| Freq.                               | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| 11100.000                           | 29.85           | 6.78           | 36.63           | 54.00          | -17.37           | 152        | 195        | Average         | 11100.000              | 29.79           | 6.78           | 36.57           | 54.00          | -17.43           | 154        | 158        | Average         |
| 11100.000<br>11100.000<br>16650.000 | 41.62<br>43.10  | 6.78<br>11.92  | 48.40<br>55.02  | 74.00          | -25.60<br>-13.18 | 152<br>148 | 195        | Peak<br>Peak    | 11100.000<br>16650.000 | 40.80<br>42.65  | 6.78<br>11.92  | 47.58<br>54.57  |                | -26.42<br>-13.63 | 154<br>147 | 158<br>39  | Peak<br>Peak    |
|                                     |                 |                |                 |                |                  |            |            | 5670            | MHz                    |                 |                |                 |                |                  |            |            |                 |
|                                     |                 |                | Hori            | izontal        | l                |            |            |                 |                        |                 |                | Vei             | rtical         |                  |            |            |                 |
| Freq. F                             | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          | Freq. f                | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| 5670.000                            |                 | -5.07          | 97.39           |                |                  | 109        | 199        | Average         | 5670.000               | 95.89           | -5.07          | 90.82           |                |                  | 137        |            | Average         |
| 5670.000<br>5725.000                | 112.36<br>71.10 | -5.07<br>-5.27 | 107.29<br>65.83 | 68.20          | -2.37            | 109<br>109 | 199<br>199 | Peak<br>Peak    | 5670.000<br>5725.000   | 105.84<br>67.63 | -5.07<br>-5.27 | 100.77<br>62.36 | 68.20          | -5.84            | 137<br>137 |            | Peak<br>Peak    |
| Freq.                               | Reading         | Factor         | Level           | Limit          | Margir           | n Heigh    | t Degre    | e Remark        | Freq.                  | Reading         | Factor         | Level           | Limit          | Margin           | Height     | Degree     | Remark          |
|                                     | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dE               | (cm)       | (°)        |                 | MHz                    | dBuV            | dB/m           | dBuV/m          | dBuV/m         | dB               | (cm)       | (°)        |                 |
| MHz                                 |                 |                |                 | F4 00          | -15.85           | 153        | 84         | Average         | 11340.000              | 30.85           | 7.07           | 37.92           | 54.00          | -16.08           | 155        |            | Averag          |
| MHz<br>11340.000<br>11340.000       |                 | 7.07<br>7.07   | 38.15<br>48.93  | 54.00<br>74.00 |                  |            | 84         |                 | 11340.000              |                 | 7.07           | 48.79           | 74.00          |                  | 155<br>155 |            | Peak            |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level-Limit.

# 802.11ac VHT80 Mode:

|   |   |  |  |  |   |  |  | 3330   | MHz  |   |  |   |   |  |  |                                |  |
|---|---|--|--|--|---|--|--|--|--|---|--|---|---|--|--|--------------------------------|--|
|   |   |  | Hori   | zonta  | l   |  |  |  |  |   |  | Ver   | tical   |  |  |                                |  |
| Freq.   | Reading   | Factor   | Level  | Limit  | Margin  | Heigh  | Degree   | e Remark   | Freq.  | Reading   | Factor   | Level   | Limit   | Margin                                 | Height                                     | Degree                         | Remark                                     |
| MHz   | dBuV  | dB/m   | dBuV/m   | dBuV/m   | dB  | (cm)   | (°)  |  | MHz  | dBuV  | dB/m   | dBuV/m  | dBuV/m  | dB                                     | (cm)                                       | (°)                            |  |
| 5459.160  | 58.22   | -4.81  | 53.41  | 54.00  | -0.59   | 267  | 198  | Average  | 5444.370   | 56.98   | -4.80  | 52.18   | 54.00   | -1.82                                  | 134  | 12                             | Average                                    |
| 5459.160  | 70.09   | -4.81  | 65.28  | 74.00  |   |  | 198  | Peak   | 5444.370   | 69.54   | -4.80  | 64.74   | 74.00   | -9.26                                  | 134  |                                | Peak                                       |
| 5530.000  | 94.55   | -4.70  | 89.85  | ,  | 01,72   | 267  | 198  | Average  | 5530.000   | 91.20   | -4.70  | 86.50   | 74.00   | 5.20                                   | 134  | 42                             | Average                                    |
| 5530.000  |   | -4.70  | 99.21  |  |   | 267  | 198  | Peak   | 5530.000   | 100.38  | -4.70  | 95.68   |   |  | 134  |                                | Peak                                       |
| Freq.   | Reading   | Factor   | Level  | Limit  | Margir  | Heigh  | t Degree   | e Remark   | Freq.  | Reading   | Factor   | Level   | Limit   | Margin                                 | Height                                     | Degree                         | Remark                                     |
| MHz   | dBuV  | dB/m   | dBuV/m   | dBuV/n   | dE  | (cm)   | (°)  |  | MHz  | dBuV  | dB/m   | dBuV/m  | dBuV/m  | dB                                     | (cm)                                       | (°)                            |  |
| 11060.000   | 31.68   | 6.80   | 38.48  | F4 00  | -15.52  | 457  | 200  |  | 11000 000  | 24.46   | 6.80   | 20.26   | F4 00   | 45 74                                  | 456  | 0                              |  |
|   | 41.37   | 6.80   | 48.17  | 54.00  |   |  | 299<br>299   | Average<br>Peak  | 11060.000  | 31.46<br>42.96  | 6.80   | 38.26<br>49.76  | 54.00<br>74.00  | -15.74                                 | 156<br>156                                 | 9                              | Average                                    |
| 11060.000   |   | 12.13  | 48.17<br>58.79                                       | 74.00<br>68.20                                   |   |  | 299  | Peak<br>Peak   | 11060.000<br>16590.000   | 42.96   | 12.13  | 57.29   | 68.20   | -24.24<br>-10.91                       | 150  |                                | Peak<br>Peak                               |
| 16590.000   | 40.00   |  |  |  |   |  |  |  |  |   |  |   |   |  |  |                                |  |
| 16590.000   | 40.00   |  |  |  |   |  |  |  |  |   |  |   |   |  |  |                                |  |
| 16590.000   | 40.00   |  |  |  |   |  |  | 5610   | MHz  |   |  |   |   |  |  |                                |  |
| 16590.000   | 40.00   |  | Hori   | zonta  | <u> </u>  |  |  | 5610   | MHz  |   |  | Ver   | tical   |  |  |                                |  |
|   | 40.00   | Factor   | Hori   | zonta  | l<br>Margin H                                     | Height   | Degree   |  |  | eading  | Factor   | Ver   |   | Margin H                               | deight                                     | Degree                         | Remark                                     |
|   |   | Factor<br>dB/m                                   |  |  | Margin H  | Height<br>(cm)                                 | Degree (°)   |  |  | eading<br>dBuV  | Factor<br>dB/m                                   |   |   | Margin H                               | Height (cm)                                | Degree (°)                     | Remark                                     |
| MHz   | dBuV  | dB/m   | Level  | Limit<br>dBuV/m                                  | Margin H  | (cm)   | (°)  | Remark   | Freq. R  |   |  | Level   | Limit   |  |  | (°)                            | Remark<br>—                                |
| Freq. F<br>MHz -  | deading   |  | Level  | Limit<br>dBuV/m                                  | Margin H  |  | (°)  | Remark<br>—<br>Average                                       | Freq. R  | dBuV  | dB/m   | Level dBuV/m  | Limit<br>dBuV/m   | dB                                     | (cm)                                       | (°)                            |  |
| Freq. F<br>MHz -<br>5438.760<br>5438.760  | dBuV 54.69 66.09  | dB/m<br>-4.76<br>-4.76                           | Level<br>dBuV/m<br>49.93<br>61.33                    | Limit<br>dBuV/m                                  | Margin H  | (cm)<br>106<br>106                             | (°) 201 201  | Remark<br>—<br>Average<br>Peak                               | Freq. R  | dBuV 54.99  | dB/m -4.69                                       | Level dBuV/m 50.30                                      | Limit<br>dBuV/m   | dB -3.70                               | (cm)                                       | (°)                            | Average<br>Peak                            |
| Freq. F<br>MHz -<br>5438.760<br>5438.760<br>5610.000                                | dBuV<br>54.69<br>66.09<br>99.88                               | dB/m<br>-4.76<br>-4.76<br>-4.78                  | Level<br>dBuV/m<br>49.93<br>61.33<br>95.10           | Limit<br>dBuV/m                                  | Margin H  | (cm)   | (°) 201 201 201  | Remark<br>Average<br>Peak<br>Average                         | Freq. R<br>MHz<br>5422.800<br>5422.800<br>5610.000                         | dBuV<br>54.99<br>66.93                                    | dB/m<br>-4.69<br>-4.69                           | Level<br>dBuV/m<br>50.30<br>62.24                       | Limit<br>dBuV/m   | dB -3.70                               | (cm)<br>146<br>146                         | (°) 43 43 43                   | Average<br>Peak                            |
| Freq. R<br>MHz<br>5438.760<br>5438.760<br>5610.000                                  | dBuV 54.69 66.09  | dB/m<br>-4.76<br>-4.76                           | Level<br>dBuV/m<br>49.93<br>61.33                    | Limit<br>dBuV/m                                  | Margin H  | (cm)<br>106<br>106<br>106                      | (°) 201 201 201 201  | Remark<br>—<br>Average<br>Peak                               | Freq. R<br>MHz<br>5422.800<br>5422.800<br>5610.000                         | dBuV 54.99 66.93 94.10                                    | dB/m<br>-4.69<br>-4.69<br>-4.78                  | Devel dBuV/m 50.30 62.24 89.32                          | Limit<br>dBuV/m   | dB -3.70                               | (cm)<br>146<br>146<br>146                  | (°)  43 43 43 43               | Average<br>Peak<br>Average                 |
| Freq. F<br>MHz -<br>5438.760<br>5438.760<br>5610.000<br>5610.000<br>5725.000        | dBuV - 54.69 99.88 109.10                                     | dB/m<br>-4.76<br>-4.76<br>-4.78<br>-4.78         | Level<br>dBuV/m<br>49.93<br>61.33<br>95.10<br>104.32 | Limit<br>dBuV/m<br>54.00<br>74.00                | Margin H  dB  -4.07 -12.67                        | (cm)<br>106<br>106<br>106<br>106<br>106        | (°) 201 201 201 201 201 201  | Remark  Average Peak Average Peak                            | Freq. R<br>MHz<br>5422.800<br>5422.800<br>5610.000<br>5610.000<br>5725.000 | dBuV<br>54.99<br>66.93<br>94.10<br>103.55                 | dB/m -4.69 -4.69 -4.78 -4.78 -5.27               | Level<br>dBuV/m<br>50.30<br>62.24<br>89.32<br>98.77     | Limit<br>dBuV/m<br>54.00<br>74.00                       | dB<br>-3.70<br>-11.76<br>-6.96         | (cm)  146 146 146 146 146                  | (°) 43 43 43 43 43             | Average<br>Peak<br>Average<br>Peak<br>Peak |
| Freq. F<br>MHz -<br>5438.760<br>5438.760<br>5610.000<br>5610.000<br>5725.000        | dBuV - 54.69 99.88 109.10 68.10                               | dB/m -4.76 -4.76 -4.78 -4.78                     | dBuV/m 49.93 61.33 95.10 104.32 62.83                | Limit  dBuV/m  54.00 74.00  68.20                | Margin H  dB  -4.07 -12.67                        | (cm)<br>106<br>106<br>106<br>106<br>106        | (°) 201 201 201 201 201 201  | Remark<br>Average<br>Peak<br>Average<br>Peak<br>Peak         | Freq. R<br>MHz<br>5422.800<br>5422.800<br>5610.000<br>5610.000<br>5725.000 | dBuV<br>54.99<br>66.93<br>94.10<br>103.55<br>66.51        | dB/m -4.69 -4.69 -4.78 -4.78 -5.27               | Devel dBuV/m 50.30 62.24 89.32 98.77 61.24              | Limit<br>dBuV/m<br>54.00<br>74.00                       | dB<br>-3.70<br>-11.76<br>-6.96         | (cm)  146 146 146 146 146                  | (°) 43 43 43 43 43             | Average<br>Peak<br>Average<br>Peak         |
| Freq. F<br>MHz<br>5438.760<br>5438.760<br>5610.000<br>5610.000<br>Freq.             | dBuV<br>54.69<br>66.09<br>99.88<br>109.10<br>68.10<br>Reading | dB/m -4.76 -4.76 -4.78 -4.78 -5.27  Factor  dB/m | dBuV/m  49.93 61.33 95.10 104.32 62.83  Level        | Limit  dBuV/m  54.00 74.00  68.20  Limit  dBuV/m | Margin H  -4.07 -12.67  -5.37  Margin  dB         | (cm)  106 106 106 106 106 106  Height (cm)     | (°)  201 201 201 201 201 201  Consider the constant of the con | Average<br>Peak<br>Average<br>Peak<br>Peak<br>Peak<br>Remark | Freq. R<br>MHz<br>5422.800<br>5422.800<br>5610.000<br>5610.000<br>5725.000 | dBuV  54.99 66.93 94.10 103.55 66.51  Reading dBuV  31.71 | dB/m -4.69 -4.69 -4.78 -4.78 -5.27               | Devel dBuV/m 50.30 62.24 89.32 98.77 61.24              | Limit  dBuV/m  54.00 74.00  68.20  Limit  dBuV/m  54.00 | dB -3.70 -11.76 -6.96 Margin dB -15.22 | (cm)  146 146 146 146 146 146 (cm)         | (°)  43 43 43 43 43 (°)        | Average<br>Peak<br>Average<br>Peak<br>Peak |
| Freq. F<br>MHz<br>5438.760<br>6438.760<br>6610.000<br>6610.000<br>6725.000<br>Freq. | dBuV<br>54.69<br>66.09<br>99.88<br>109.10<br>68.10<br>Reading | dB/m -4.76 -4.76 -4.78 -4.78 -5.27               | dBuV/m  49.93 61.33 95.10 104.32 62.83  Level        | Limit  dBuV/m  54.00  74.00  68.20  Limit        | Margin H  -4.07 -12.67  -5.37  Margin  dB  -14.98 | (cm)<br>106<br>106<br>106<br>106<br>106<br>106 | (°) 201 201 201 201 201 201 Degree   | Remark<br>Average<br>Peak<br>Average<br>Peak<br>Peak         | Freq. R  MHz  5422.800 5422.800 5610.000 5610.000 5725.000  Freq.          | dBuV  54.99 66.93 94.10 103.55 66.51  Reading dBuV  31.71 | dB/m -4.69 -4.69 -4.78 -4.78 -5.27  Factor  dB/m | Devel dBuV/m 50.30 62.24 89.32 98.77 61.24 Level dBuV/m | Limit  dBuV/m  54.00  74.00  68.20  Limit  dBuV/m       | dB -3.70 -11.76 -6.96 Margin dB -15.22 | (cm)  146 146 146 146 146 146  Height (cm) | (°) 43 43 43 43 43 43 6 Degree | Average<br>Peak<br>Average<br>Peak<br>Peak |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level - Limit.

## 5725-5850MHz

802.11a Mode:

|                                     |                 |                |                 |                  |                  |            |            | 5745                    | 5 MHz                  |                 |                |  |  |                  |            |               |                 |
|-------------------------------------|-----------------|----------------|-----------------|------------------|------------------|------------|------------|-------------------------|------------------------|-----------------|----------------|--|--|------------------|------------|---------------|-----------------|
|                                     |                 |                | Hori            | izonta           | l                |            |            |                         |                        |                 |                | Vei  | rtical                                       |                  |            |               |                 |
| Freq. R                             | eading          | Factor         | Level           | Limit            | Margin H         | Height     | Degree     | Remark                  | Freq.                  | Reading         | Factor         | Level  | Limit  | Margin H         | Height     | Degree        | Remark          |
| MHz                                 | dBuV _          | dB/m           | dBuV/m          | dBuV/m           | <br>dB           | (cm)       | (°)        |                         | MHz                    | dBuV            |                | dBuV/m                                       | dBuV/m                                       | dB               | (cm)       | (°)           |                 |
| 5629.440                            | 66.00           | -4.85          | 61.15           | 68.20            | -7.05            | 106        | 151        | Peak                    | 5618.280               | 65.43           | -4.81          | 60.62  | 68.20  | -7.58            | 112        |               | Peak            |
| 5699.280                            | 67.36           | -5.31          | 62.05           |                  | -42.62           | 106        | 151        | Peak                    | 5677.680               | 66.22           | -5.14          | 61.08  |  | -27.64           | 112        |               | Peak            |
| 5720.160                            | 77.05           | -5.28          | 71.77           | 111.17           | -39.40           | 106        | 151        | Peak                    | 5720.160               | 72.28           | -5.28          | 67.00  | 111.17                                       | -44.17           | 112        |               | Peak            |
| 5725.000<br>5745.000                | 78.11<br>113.93 | -5.27<br>-5.24 | 72.84<br>108.69 | 122.20           | -49.36           | 106<br>106 | 151<br>151 | Peak<br>Peak            | 5725.000<br>5745.000   | 73.74<br>109.48 | -5.27<br>-5.24 | 68.47<br>104.24                              | 122.20                                       | -53.73           | 112<br>112 |               | Peak<br>Peak    |
| 5850.000                            | 64.76           | -5.11          | 59.65           | 122.20           | -62.55           | 106        | 151        | Peak                    | 5850.000               | 64.04           | -5.11          | 58.93  |  | -63.27           | 112        | 50            | Peak            |
| 5859.840<br>5922.120                | 66.70<br>65.63  | -5.05<br>-4.55 | 61.65<br>61.08  | 109.44<br>70.32  | -47.79<br>-9.24  | 106<br>106 | 151<br>151 | Peak<br>Peak            | 5868.840<br>5896.920   | 66.05<br>66.06  | -4.98<br>-4.79 | 61.07<br>61.27                               | 106.92<br>88.94                              | -45.85<br>-27.67 | 112<br>112 |               | Peak<br>Peak    |
| 5940.120                            | 65.96           | -4.38          | 61.58           | 68.20            | -6.62            | 106        | 151        | Peak                    | 5931.480               | 66.17           | -4.46          | 61.71  | 68.20  | -6.49            | 112        |               | Peak            |
| Freq.                               | Reading         | Factor         | Level           | Limit            | Margin           | Height     | Degre      | e Remark                | Freq                   | . Reading       | g Factor       | Level  | Limit  | Margin           | Height     | Degree        | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m           | dB               | (cm)       | (°)        |                         | MH                     | z dBuV          | dB/m           | dBuV/m                                       | dBuV/m                                       | dB               | (cm)       | (°)           |                 |
| 11490.000                           | 31.44           | 7.23           | 38.67           | 54.00            | -15.33           | 156        | 0          | Average                 | 11490.00               | 0 30.54         | 7.23           | 37.77  | 54.00  | -16.23           | 152        | 103           | Average         |
| 11490.000<br>17235.000              | 41.92<br>44.44  | 7.23<br>11.80  | 49.15<br>56.24  | 74.00<br>68.20   |                  | 156<br>156 | 9<br>39    |                         | 11490.00<br>17235.00   | 0 41.43         |                | 48.66<br>53.26                               | 74.00<br>68.20                               | -25.34           | 152        | 103<br>19     | Peak<br>Peak    |
|                                     |                 |                |                 |                  |                  |            |            | 5785                    | 5 MHz                  |                 |                |  |  |                  |            |               |                 |
|                                     |                 |                | Hori            | izonta           | l                |            |            |                         |                        |                 |                | Vei  | rtical                                       |                  |            |               |                 |
|                                     |                 |                |                 |                  |                  |            |            |                         |                        |                 |                |  |  |                  |            |               |                 |
| Freq. F                             |                 | Factor         | Level           | Limit            | Margin           |            |            | Remark                  |                        | Reading         | Factor         | Level  | Limit  | Margin           |            |               | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m           | dB               | (cm)       | (°)        |                         | MHz                    | dBuV            | dB/m           | dBuV/m                                       | dBuV/m                                       | dB               | (cm)       | (°)           |                 |
| 5624.760<br>5697.480                | 65.87<br>66.40  | -4.83<br>-5.29 | 61.04<br>61.11  | 68.20<br>103.34  | -7.16<br>-42.23  | 106<br>106 | 153<br>153 | Peak<br>Peak            | 5622.240<br>5668.680   | 65.95<br>66.75  | -4.82<br>-5.06 | 61.13<br>61.69                               | 68.20<br>82.06                               | -7.07<br>-20.37  | 103<br>103 | 46<br>46      | Peak<br>Peak    |
| 5709.360                            | 66.40           | -5.29          | 61.11           | 107.82           | -46.71           | 106        | 153        | Peak                    | 5705.400               | 65.22           | -5.30          | 59.92  | 106.71                                       | -46.79           | 103        | 46            | Peak            |
| 5725.000<br>5785.000                | 63.85           | -5.27          | 58.58           | 122.20           | -63.62           | 106<br>106 | 153        | Peak                    | 5725.000<br>5785.000   | 64.16           | -5.27          | 58.89  | 122.20                                       | -63.31           | 103        | 46            | Peak            |
| 5850.000                            | 114.21<br>65.11 | -5.18<br>-5.11 | 109.03<br>60.00 | 122.20           | -62.20           | 106        | 153<br>153 | Peak<br>Peak            | 5850.000               | 109.42<br>65.97 | -5.18<br>-5.11 | 104.24<br>60.86                              | 122.20                                       | -61.34           | 103<br>103 | 46<br>46      | Peak<br>Peak    |
| 5854.800                            | 66.18           | -5.08          | 61.10           | 111.26           | -50.16           | 106        | 153        | Peak                    | 5872.080               | 65.79           | -4.96          | 60.83  | 106.02                                       | -45.19           | 103        | 46            | Peak            |
| 5922.840<br>5962.440                | 66.41<br>66.00  | -4.54<br>-4.21 | 61.87<br>61.79  | 69.79<br>68.20   | -7.92<br>-6.41   | 106<br>106 | 153<br>153 | Peak<br>Peak            | 5914.560<br>5961.720   | 66.12<br>66.60  | -4.63<br>-4.21 | 61.49<br>62.39                               | 75.90<br>68.20                               | -14.41<br>-5.81  | 103<br>103 | 46<br>46      | Peak<br>Peak    |
| Feee                                | Pandina         | Easton         | Lovel           | 1 ( )            | Manain I         | Hai abb    | Danne      | Romani                  |                        |                 |                |  |  |                  |            |               |                 |
| MHz                                 | Reading         | Factor<br>dB/m | dBuV/m          | dBuV/m           | Margin I         | (cm)       | (°)        | Kemark                  | Freq<br>MH:            | Reading<br>dBuV |                | Level<br>——————————————————————————————————— | Limit<br>——————————————————————————————————— |                  |            | Degree<br>(°) | Remark          |
| 11570.000                           | 32.59           | 7.19           | 39.78           | 54.00            | -14.22           | 155        |            |                         | 141.                   | . ubuv          | ub/ III        |  | ubuv/ III                                    | ub               | (Сш)       | ( )           |                 |
| 11570.000<br>11570.000<br>17355.000 | 42.12           | 7.19           | 49.31<br>59.91  | 74.00<br>68.20   | -24.69<br>-8.29  | 155<br>152 | 5          | Average<br>Peak<br>Peak | 11570.000<br>11570.000 | 42.81           | 7.19           | 38.65<br>50.00                               | 54.00<br>74.00                               | -24.00           | 151        | 86<br>86      | Average<br>Peak |
| 1,333,000                           |                 | F. S. S. C.    |                 |                  |                  | 55.5       |            |                         | 17355.000              | 42.34           | 12.35          | 54.69  | 68.20  | -13.51           | 153        | 24            | Peak            |
|                                     |                 |                |                 |                  | _                |            |            | 5825                    | MHz                    |                 |                |  |  |                  |            |               |                 |
|                                     |                 |                | Hori            | izonta           | l                |            |            |                         |                        |                 |                | Vei  | rtical                                       |                  |            |               |                 |
| Freq. R                             | eading          | Factor         | Level           | Limit            | Margin           | Height     | Degree     | Remark                  | Freq.                  | Reading         | Factor         | Level  | Limit  | Margin           | Height     | Degree        | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m           | dB               | (cm)       | (°)        |                         | MHz                    | dBuV            | dB/m           | dBuV/m                                       | dBuV/m                                       | dB               | (cm)       | (°)           |                 |
| 5612.520                            | 65.88           | -4.80          | 61.08           | 68.20            | -7.12            | 106        | 150        | Peak                    | 5612.160               | 65.55           | -4.78          | 60.77  | 68.20  | -7.43            | 124        | 46            | Peak            |
| 5664.360<br>5713.680                | 66.44<br>65.55  | -5.04<br>-5.29 | 61.40<br>60.26  | 78.86<br>109.03  | -17.46<br>-48.77 | 106<br>106 | 150<br>150 | Peak<br>Peak            | 5677.680<br>5717.280   | 66.24<br>66.49  | -5.14<br>-5.29 | 61.10<br>61.20                               | 88.72<br>110.04                              | -27.62           | 124        | 46<br>46      | Peak<br>Peak    |
| 5725.000                            | 64.62           | -5.27          | 59.35           | 122.20           | -62.85           | 106        | 150        | Peak                    | 5725.000               | 64.69           | -5.29          | 59.42  | 122.20                                       | -62.78           | 124<br>124 | 46            | Peak            |
| 5825.000                            | 114.13          | -5.14          | 108.99          |                  |                  | 106        | 150        | Peak                    | 5825.000               | 109.16          | -5.14          | 104.02                                       |  |                  | 124        | 46            | Peak            |
| 5850.000<br>5858.040                | 71.18<br>68.92  | -5.11<br>-5.06 | 66.07<br>63.86  | 122.20<br>109.95 | -56.13<br>-46.09 | 106<br>106 | 150<br>150 | Peak<br>Peak            | 5850.000<br>5855.880   | 68.17<br>67.56  | -5.11<br>-5.07 | 63.06<br>62.49                               | 122.20<br>110.55                             | -59.14<br>-48.06 | 124<br>124 | 46<br>46      | Peak<br>Peak    |
| 5875.320<br>5960.280                | 66.89<br>66.92  | -4.95<br>-4.22 | 61.94<br>62.70  | 104.96           | -43.02<br>-5.50  | 106<br>106 | 150<br>150 | Peak<br>Peak            | 5875.320<br>5963.160   | 66.30           | -4.95<br>-4.20 | 61.35<br>61.80                               | 104.96                                       | -43.61<br>-6.40  | 124<br>124 | 46<br>46      | Peak<br>Peak    |
|                                     |                 |                |                 |                  |                  |            |            |                         |                        |                 |                |  |  |                  |            |               |                 |
| Freq.                               | Reading         | Factor         | Level           | Limit            | Margin           | Height     | Degree     | e Remark                | Freq                   | . Reading       | g Factor       | Level  | Limit  | Margin           | Height     | Degree        | Remark          |
| MHz                                 | dBuV            | dB/m           | dBuV/m          | dBuV/m           | dB               | (cm)       | (°)        |                         | MH                     |                 |                | dBuV/m                                       | dBuV/m                                       |                  |            | (°)           |                 |
| 11650.000                           | 32.95<br>41.65  | 7.20           | 40.15           |                  | -13.85           | 156<br>156 | 200        |                         | 11650.00<br>11650.00   |                 |                | 38.75<br>50.30                               | 54.00<br>74.00                               |                  |            | 193<br>193    | Average<br>Peak |
| 11650.000<br>17475.000              | 41.65           | 7.20<br>11.89  | 48.85<br>54.70  | 74.00<br>68.20   |                  | 156<br>153 | 200<br>1   | Peak<br>Peak            | 17475.00               |                 |                | 54.02  | 68.20  |                  |            |               | Peak            |

No.: RXZ231115070RF03

Level = Reading + Factor.

Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$ 

Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 52 of 133

## 802.11ac VHT20 Mode:

|                      |   |                |                 |  |                  |            |            | 5745            | MHz                  |                |                |                |                  |                  |            |          |              |
|----------------------|---|----------------|-----------------|--|------------------|------------|------------|-----------------|----------------------|----------------|----------------|----------------|------------------|------------------|------------|----------|--------------|
|                      |   |                | Hori            | zontal                                       |                  |            |            |                 |                      |                |                | Ver            | rtical           |                  |            |          |              |
| Freq. f              | Reading   | Factor         | Level           | Limit  | Margin           | Height     | Degree     | Remark          | Freq.                | Reading        | Factor         | Level          | Limit            | Margin           | Height     | Degree   | Remark       |
| MHz                  | dBuV  | dB/m           | dBuV/m          | dBuV/m                                       | dB               | (cm)       | (°)        |                 | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           | dB               | (cm)       | (°)      |              |
| 5612.880             | 67.13   | -4.80          | 62.33           | 68.20  | -5.87            | 105        | 153        | Peak            | FC12 1C0             | 65 53          | 4 70           | 60.75          | 60.00            | 7.45             | 443        | 70       | DI-          |
| 5699.280             | 68.81   | -5.31          | 63.50           | 68.20<br>104.67                              | -5.87            | 105        | 153        | Peak            | 5612.160<br>5699.280 | 65.53<br>66.47 | -4.78<br>-5.31 | 60.75<br>61.16 | 68.20<br>104.67  | -7.45<br>-43.51  | 113<br>113 | 39<br>39 | Peak<br>Peak |
| 5720.160             | 74.63   | -5.28          | 69.35           | 111.17                                       | -41.82           | 105        | 153        | Peak            | 5717.280             | 68.42          | -5.29          | 63.13          | 110.04           | -46.91           | 113        |          | Peak         |
| 5725.000             | 78.23   | -5.27          | 72.96           | 122.20                                       | -49.24           | 105        | 153        | Peak            | 5725.000             | 73.50          | -5.27          | 68.23          | 122.20           | -53.97           | 113        | 39       | Peak         |
| 5745.000             | 113.38  | -5.24          | 108.14          | 122 20                                       | 62.42            | 105        | 153        | Peak            | 5745.000             | 107.53         | -5.24          | 102.29         | 122 20           | 62.40            | 113        | 39       | Peak         |
| 5850.000<br>5859.840 | 64.89<br>66.18                                  | -5.11<br>-5.05 | 59.78<br>61.13  | 122.20<br>109.44                             | -62.42<br>-48.31 | 105<br>105 | 153<br>153 | Peak<br>Peak    | 5850.000<br>5863.800 | 64.83<br>66.25 | -5.11<br>-5.02 | 59.72<br>61.23 | 122.20<br>108.33 | -62.48<br>-47.10 | 113<br>113 | 39<br>39 | Peak<br>Peak |
| 5919.240             | 66.04   | -4.58          | 61.46           | 72.45  | -10.99           | 105        | 153        | Peak            | 5900.160             | 66.26          | -4.77          | 61.49          | 86.54            | -25.05           | 113        |          | Peak         |
| 5966.760             | 66.37   | -4.18          | 62.19           | 68.20  | -6.01            | 105        | 153        | Peak            | 5943.000             | 65.94          | -4.35          | 61.59          | 68.20            | -6.61            | 113        | 39       | Peak         |
| Freq.                | Reading   | Factor         | Level           | Limit  | Margin           | Height     | Degree     | e Remark        | Freq.                | Reading        | Factor         | Level          | Limit            | Margin           | Height     | Degree   | Remark       |
| MHz                  | dBuV  | dB/m           | dBuV/m          | dBuV/m                                       | dB               | (cm)       | (°)        |                 | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           | dB               | (cm)       | (°)      |              |
| 11490.000            | 30.88   | 7.23           | 38.11           | 54.00  | -15.89           | 154        | 1          | Average         | 11490.000            | 30.38          | 7.23           | 37.61          | 54.00            | -16.39           | 157        | 143      | Averag       |
| 11490.000            | 40.75   | 7.23           | 47.98           | 74.00  |                  |            | 1          |                 | 11490.000            | 40.93          |                | 48.16          | 74.00            |                  |            | 143      | Peak         |
| 17235.000            | 44.29   | 11.80          | 56.09           | 68.20  | -12.11           | 152        | 353        | Peak            | 17235.000            | 41.76          | 11.80          | 53.56          | 68.20            | -14.64           | 152        | 72       | Peak         |
|                      |   |                |                 |  |                  |            |            | 5785            | MHz                  |                |                |                |                  |                  |            |          |              |
|                      |   |                | Hori            | izontal                                      | l                |            |            |                 |                      |                |                | Ver            | rtical           |                  |            |          |              |
| F=0.0                | Pooding   | Factor         | Lovel           | Limit  | Manain           | Uoiah+     | Dognoo     | Pomonle         | Freq (               | Reading        | Factor         | Level          | Limit            | Margin I         | Height     | Degree   | Remark       |
| Freq.                | Reading<br>———————————————————————————————————— | dB/m           | Level<br>dBuV/m | Limit<br>——————————————————————————————————— | Margin<br>dB     | (cm)       | (°)        | memark          | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           | dB               | (cm)       | (°)      |              |
| 1112                 | abav  | ub/ III        | abav/iii        | abav/ iii                                    |                  | (Сш)       | ( )        |                 |                      |                |                |                |                  |                  |            |          |              |
| 5629.440             | 65.92   | -4.85          | 61.07           | 68.20  | -7.13            | 107        | 197        | Peak            | 5611.080<br>5669.040 | 66.24<br>66.03 | -4.78<br>-5.06 | 61.46<br>60.97 | 68.20<br>82.33   | -6.74<br>-21.36  | 101<br>101 |          | Peak<br>Peak |
| 5653.200<br>5708.640 | 65.73<br>66.22                                  | -4.95<br>-5.29 | 60.78<br>60.93  | 70.58<br>107.62                              | -9.80<br>-46.69  | 107<br>107 | 197<br>197 | Peak<br>Peak    | 5718.000             | 66.56          | -5.28          | 61.28          | 110.24           | -48.96           | 101        |          | Peak         |
| 5725.000             | 64.29   | -5.27          | 59.02           | 122.20                                       | -63.18           | 107        | 197        | Peak            | 5725.000             | 64.21          | -5.27          | 58.94          | 122.20           | -63.26           | 101        | 48       | Peak         |
| 5785.000             | 113.24  | -5.18          | 108.06          |  |                  | 107        | 197        | Peak            | 5785.000             | 108.94         | -5.18          | 103.76         |                  |                  | 101        | 48       | Peak         |
| 5850.000             | 64.80<br>66.12                                  | -5.11<br>-4.98 | 59.69<br>61.14  | 122.20<br>106.82                             | -62.51<br>-45.68 | 107<br>107 | 197<br>197 | Peak<br>Peak    | 5850.000<br>5859.120 | 64.22<br>66.53 | -5.11<br>-5.06 | 59.11<br>61.47 | 122.20<br>109.64 | -63.09<br>-48.17 | 101<br>101 | 48<br>48 | Peak<br>Peak |
| 5869.200<br>5883.600 | 66.83   | -4.98          | 61.14           | 98.81  | -36.86           | 107        | 197        | Peak            | 5925.000             | 65.81          | -4.52          | 61.29          | 68.20            | -6.91            | 101        |          | Peak         |
| 5962.080             | 66.92   | -4.21          | 62.71           | 68.20  | -5.49            | 107        | 197        | Peak            | 5959.200             | 66.91          | -4.23          | 62.68          | 68.20            | -5.52            | 101        |          | Peak         |
| Freq.                | Reading   | Factor         | Level           | Limit  | Margin           | Height     | Degree     | Remark          | Freq.                | Reading        | Factor         | Level          | Limit            | Margin           | Height     | Degree   | Remark       |
| MHz                  | dBuV  | dB/m           | dBuV/m          | dBuV/m                                       | dB               | (cm)       | (°)        |                 | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           | dB               | (cm)       | (°)      |              |
| 11570 000            | 31.45   | 7 19           | 20 64           | 54.00  | -15 26           | 156        | 257        | Auconomo        | 11570.000            | 30.34          | 7.19           | 37.53          | 54.00            | -16.47           | 155        | 75       | Average      |
| 11570.000            |   | 7.19           | 38.64<br>49.19  | 74.00  | -15.36<br>-24.81 | 156<br>156 | 357<br>357 | Average<br>Peak | 11570.000            | 42.37          | 7.19           | 49.56          | 74.00            |                  | 155        | 75       | Peak         |
| 17355.000            |   |                | 56.27           | 68.20  | -11.93           | 154        | 66         | Peak            | 17355.000            | 41.12          | 12.35          | 53.47          | 68.20            | -14.73           | 159        | 322      | Peak         |
|                      |   |                |                 |  |                  |            |            | 5825            | 5 MHz                |                |                |                |                  |                  |            |          |              |
|                      |   |                | Hori            | zontal                                       | l                |            |            |                 |                      |                |                | Ver            | rtical           |                  |            |          |              |
|                      |   |                |                 |  |                  |            |            |                 | Face                 | Reading        | Fastan         | Level          | Limit            | Margin           | Uod abt    | Dognoo   | Pomonic      |
| Freq. MHz            | Reading<br>                                     | Factor<br>dB/m | Level<br>dBuV/m | Limit<br>dBuV/m                              | Margin           | (cm)       | (°)        | nemark          | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           |                  | (cm)       | (°)      |              |
|                      |   |                |                 |  |                  | . ,        |            |                 |                      |                |                |                |                  |                  |            |          | D            |
| 5622.600             | 66.19   | -4.83          | 61.36           | 00.20  | -6.84            | 140        | 194        |                 | 5640.960<br>5699.280 | 65.95<br>65.90 | -4.89<br>-5.31 | 61.06<br>60.59 | 68.20<br>104.67  | -7.14<br>-44.08  | 150<br>150 |          | Peak<br>Peak |
| 5696.040<br>5706.120 | 66.07<br>65.40                                  | -5.29<br>-5.30 | 60.78<br>60.10  |  | -41.50<br>-46.82 | 146<br>146 | 194<br>194 | Peak<br>Peak    | 5705.400             | 66.21          | -5.30          | 60.91          |                  | -44.00           | 150        |          | Peak         |
| 5725.000             | 64.16   | -5.27          | 58.89           |  | -63.31           | 146        | 194        | Peak            | 5725.000             | 64.91          | -5.27          | 59.64          | 122.20           | -62.56           | 150        | 45       | Peak         |
| 5825.000             | 112.55  | -5.14          | 107.41          |  |                  | 146        | 194        | Peak            | 5825.000             | 108.73         | -5.14          | 103.59         | 422.25           | FO 05            | 150        |          | Peak         |
| 5850.000             | 71.58   | -5.11          | 66.47           |  | -55.73           | 146        | 194        | Peak            | 5850.000<br>5854.800 | 68.25<br>66.90 | -5.11<br>-5.08 | 63.14<br>61.82 |                  | -59.06<br>-49.44 | 150<br>150 |          | Peak<br>Peak |
| 5855.880<br>5915.640 | 68.58<br>66.60                                  | -5.07<br>-4.62 | 63.51<br>61.98  | 110.55<br>75.10                              | -47.04<br>-13.12 | 146<br>146 | 194<br>194 | Peak<br>Peak    | 5897.280             | 65.95          | -4.79          | 61.16          |                  | -27.51           | 150        |          | Peak         |
| 5969.280             | 65.89   | -4.62<br>-4.16 | 61.73           | 68.20  | -6.47            | 146        | 194        | Peak            | 5962.800             | 67.11          | -4.20          | 62.91          | 68.20            | -5.29            | 150        |          | Peak         |
| Freq.                | Reading   | Factor         | Level           | Limit  | Margin           | Height     | Degree     | Remark          | Freq.                | Reading        | Factor         | Level          | Limit            | Margin           | Height     | Degree   | e Remark     |
| MHz                  | dBuV  | dB/m           | dBuV/m          | dBuV/m                                       | dB               | (cm)       | (°)        |                 | MHz                  | dBuV           | dB/m           | dBuV/m         | dBuV/m           | dB               | (cm)       | (°)      |              |
| 11650.000            | 32.46   | 7.20           | 39.66           | 54.00  | -14.34           | 155        | 6          | Average         | 11650.000            | 31.44          | 7.20           | 38.64          | 54.00            | -15.36           | 152        | 80       | Averag       |
| 11650.000            | 42.28   | 7.20           | 49.48           | 74.00  |                  | 155        | 6          | Peak            | 11650.000            | 43.10          | 7.20           | 50.30          | 74.00            | -23.70           | 152        | 80       | Peak         |
| 17475.000            |   | 11.89          | 56.17           |  | -12.03           | 153        |            | Peak            | 17475.000            | 42.64          | 11.89          | 54.53          | 68.20            | -13.67           | 155        | a        | Peak         |

Level = Reading + Factor.

Margin = Level-Limit.

# 802.11ac VHT40 Mode:

|  |   |   |  |  |  |  |  | 5755  | MHz   |  |   |   |  |  |   |   |  |  |
|--|---|---|--|--|--|--|--|---|---|--|---|---|--|--|---|---|--|--|
|  |   |   | Hori   | zonta  | l  |  |  | Vertical  |   |  |   |   |  |  |   |   |  |  |
| Freq. F  | Reading   | Factor  | Level  | Limit  | Margin   | Height   | Degree   | Remark  | Freq. F   | leading  | Factor  | Level   | Limit  | Margin   | Height  | Degree                                      | Remark   |  |
| MHz  | dBuV -  | dB/m  | dBuV/m   | dBuV/m   | dB   | (cm)   | (°)  |   | MHz   | dBuV   | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)  | (°)   |  |  |
| 6621.880   | 66.19   | -4.82   | 61.37  | 68.20  | -6.83  | 100  | 198  | Peak  | 5637.000  | 66.25  | -4.87   | 61.38   | 68.20  | -6.82  | 127   | 48  | Peak   |  |
| 698.920  | 71.71   | -5.30   | 66.41  | 104.40   | -37.99   | 100  | 198  | Peak  | 5698.920  | 68.60  | -5.30   | 63.30   | 104.40   | -41.10   | 127   | 48  | Peak   |  |
| 718.000  | 81.50   | -5.28   | 76.22  | 110.24   | -34.02   | 100  | 198  | Peak  | 5714.400  | 76.24  | -5.29   | 70.95   | 109.23   | -38.28   | 127   | 48  | Peak   |  |
| 725.000  | 80.07   | -5.27   | 74.80  | 122.20   | -47.40   | 100  | 198  | Peak  | 5725.000  | 73.92  | -5.27   | 68.65   | 122.20   | -53.55   | 127   | 48  | Peak   |  |
|  | 111.43  | -5.23   | 106.20   |  |  | 100  | 198  | Peak  | 5755.000  | 106.68   | -5.23   | 101.45  |  |  | 127   | 48  | Peak   |  |
| 850.000  | 66.25   | -5.11   | 61.14  | 122.20   | -61.06   | 100  | 198  | Peak  | 5850.000  | 65.75  | -5.11   | 60.64   | 122.20   | -61.56   | 127   | 48  | Peak   |  |
| 857.680  | 67.62   | -5.06   | 62.56  | 110.05   | -47.49   | 100  | 198  | Peak  | 5868.840  | 66.32  | -4.98   | 61.34   | 106.92   | -45.58   | 127   | 48  | Peak   |  |
| 922.120  | 66.32   | -4.55   | 61.77  | 70.32  | -8.55  | 100  | 198  | Peak  | 5919.960  | 66.14  | -4.57   | 61.57   | 71.92  | -10.35   | 127   | 48  | Peak   |  |
| 947.320  | 67.41   | -4.31   | 63.10  | 68.20  | -5.10  | 100  | 198  | Peak  | 5946.240  | 66.94  | -4.31   | 62.63   | 68.20  | -5.57  | 127   | 48  | Peak   |  |
| Freq.  | Reading   | Factor  | Level  | Limit  | Margir   | Heigh  | t Degre  | e Remark  | Freq.   | Reading  | Factor  | Level   | Limit  | Margin   | Height  | Degree                                      | Remark   |  |
| MHz  | dBuV  | dB/m  | dBuV/m   | dBuV/m   | dE   | (cm)   | (°)  |   | MHz   | dBuV   | dB/m  | dBuV/m  | dBuV/m   | dB   | (cm)  | (°)   |  |  |
| 11510.000  | 30.86   | 7,22  | 38.08  | 54.00  | -15.92   | 157  | 6  | Average   | 11510.000   | 30.09  | 7.22  | 37.31   | 54.00  | -16.69   | 155   | 87  | Average  |  |
|  | 42.02   | 7.22  | 49.24  | 74.00  |  |  | 6  |   | 11510.000   | 42.13  | 7.22  | 49.35   | 74.00  | -24.65   | 155   |   | Peak   |  |
|  |   |   |  |  |  |  |  |   |   |  |   |   |  |  |   |   |  |  |
| 11510.000<br>17265.000   |   | 11.88   | 54.71  | 68.20  |  |  | 330  | Peak  | 17265.000<br>MHz  |  | 11.88   | 53.39   | 68.20  | -14.81   | 158   | 242   | Peak   |  |
|  |   |   | 54.71  |  | -13.49   |  |  | Peak  | 17265.000   |  | 11.88   | 50.2 900 90 200   | etical   | -14.81   | 158   |   | Peak   |  |
| 17265.000  | 42.83   | 11.88   | Hori   | 68.20<br>izonta  | -13.49<br>]  | 152  | 330  | 5795  | 17265.000<br>MHz  | 41.51  | C X 307 5/9/190   | Vei   | tical  | 113061130000   | 10.0014000  | 242   | 0000000  |  |
| 17265.000  | 42.83   |   | 54.71  | 68.20  | -13.49   | 152  | 330  | 5795  | 17265.000  MHz  Freq. R   | 41.51  | Factor  | Ver   | rtical   | Margin   | Height  | 242<br>Degree                               | 0000000  |  |
| 17265.000  | 42.83   | 11.88   | Hori   | 68.20<br>izonta  | -13.49<br>]  | 152  | 330  | 5795  | 17265.000<br>MHz  | 41.51  | C X 307 5/9/190   | Vei   | tical  | 113061130000   | 10.0014000  | 242   | 0000000  |  |
| Freq.  | 42.83   | 11.88   | Hori   | 68.20  Zonta   | -13.49   | 152  | Degree   | 5795  | 17265.000  MHz  Freq. R  MHz  5641.680  | eading dBuV  | Factor dB/m -4.89   | Ver   | Limit dBuV/m 68.20   | Margin<br>dB<br>-7.21  | Height (cm)   | Degree (°) 46                               | Remark<br>—                                    |  |
| Freq.  <br>MHz   | 42.83  Reading  dBuV  65.58 66.37   | Factor  dB/m  -4.83 -5.30   | Hori Level  dBuV/m  60.75 61.07  | Zonta  Limit  dBuV/m   | -13.49  Margin  dB  -7.45 -42.54   | Height (cm)  | Degree (°)   | 5795  | MHz  Freq. R  MHz  5641.680 5685.240  | eading dBuV 65.88 66.70  | Factor<br>dB/m<br>-4.89<br>-5.19  | Ver   | Limit dBuV/m 68.20 94.31   | Margin<br>dB<br>-7.21<br>-32.80  | Height (cm)   | Degree (°) 46 46                            | Remark<br>———————————————————————————————————— |  |
| Freq.  <br>MHz<br>6622.960<br>6697.840<br>6719.080   | Reading  dBuV  65.58 66.37 68.54  | Factor  dB/m  -4.83 -5.30 -5.28   | Hori Level dBuV/m 60.75 61.07 63.26  | Ezonta  Limit  dBuV/m  68.20 103.61 110.54                                       | -13.49  Margin  dB  -7.45 -42.54 -47.28  | 152 Height (cm)                                    | Degree (°)   | 5795  Remark Peak   | Freq. R  MHz  Freq. R  MHz  5641.680 5685.240 5719.080  | eading dBuV 65.88 66.70 66.40  | Factor<br>dB/m<br>-4.89<br>-5.19<br>-5.28   | Ver<br>Level<br>dBuV/m<br>60.99<br>61.51<br>61.12   | Limit dBuV/m 68.20 94.31 110.54  | Margin  dB  -7.21 -32.80 -49.42  | Height (cm) 127 127 127                             | Degree (°) 46 46 46                         | Remark<br>Peak<br>Peak<br>Peak                 |  |
| Freq.  <br>MHz  <br>6622.960  <br>6697.840  <br>6719.080  <br>6725.000   | Reading  dBuV  65.58 66.37 68.54 67.71  | Factor  dB/m  -4.83 -5.30 -5.28 -5.27   | Hori Level  60.75 61.07 63.26 62.44  | 68.20  Limit  dBuV/m  68.20 103.61   | -13.49  Margin  dB  -7.45 -42.54   | Height (cm) 100 100 100 100                        | Degree (°) 172 172 172 172                         | 5795  Remark  Peak Peak Peak Peak Peak                    | MHz  Freq. R  MHz  5641.680 5685.240 5719.080 5725.000  | eading dBuV 65.88 66.70 66.40 65.43  | Factor<br>dB/m<br>-4.89<br>-5.19<br>-5.28<br>-5.27                                | Ver<br>Level<br>dBuV/m<br>60.99<br>61.51<br>61.12<br>60.16  | Limit dBuV/m 68.20 94.31 110.54  | Margin<br>dB<br>-7.21<br>-32.80  | Height (cm)  127 127 127 127                        | Degree (°) 46 46 46 46                      | Remark<br>Peak<br>Peak<br>Peak<br>Peak         |  |
| Freq.  <br>MHz  <br>6622.960  <br>6697.840  <br>6719.080  <br>6725.000   | 42.83  Reading  dBuV  65.58 66.37 68.54 67.71 111.13  | Factor  dB/m  -4.83 -5.30 -5.27 -5.27   | Hori Level 60.75 61.07 63.26 62.44 105.96  | 68.20 Limit  dBuV/m  68.20 103.61 110.54 122.20                                  | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76                                       | Height (cm) 100 100 100 100 100                    | Degree (°) 172 172 172                             | 5795  Remark  Peak Peak Peak Peak                         | 17265.000  MHz  Freq. R  MHz  5641.680 5685.240 5719.080 5795.000 5795.000                            | eading dBuV 65.88 66.70 65.43 107.29   | Factor  dB/m  -4.89 -5.19 -5.28 -5.27 -5.17                                       | Ver<br>Level<br>dBuV/m<br>60.99<br>61.51<br>61.12<br>60.16<br>60.16<br>102.12                           | tical Limit dBuV/m 68.20 94.31 110.54 122.20                                     | Margin  -7.21  -32.80  -49.42  -62.04  | Height (cm)  127 127 127 127 127                    | Degree (°) 46 46 46 46 46                   | Remark<br>Peak<br>Peak<br>Peak<br>Peak<br>Peak |  |
| Freq.  <br>  | 42.83  Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36                                  | 11.88<br>Factor<br>dB/m<br>-4.83<br>-5.30<br>-5.28<br>-5.27<br>-5.17                | Hori  Level  dBuV/m  60.75 61.07 63.26 62.44 105.96 63.25                        | 68.20  Limit  dBuV/m  68.20 103.61 110.54 122.20                                 | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76                                       | Height (cm)  100 100 100 100 100 100               | Degree (°) 172 172 172 172 172 172                 | Peak  Remark  Peak Peak Peak Peak Peak Peak Peak          | Freq. R  MHz  5641.689 5685.249 5719.080 5725.000 5795.000 5850.000                                   | eading dBuV 65.88 66.70 66.40 65.43 107.29 65.75   | Factor<br>dB/m<br>-4.89<br>-5.19<br>-5.28<br>-5.27<br>-5.17<br>-5.11              | Ver<br>Level<br>dBuV/m<br>60.99<br>61.51<br>61.12<br>60.16<br>102.12<br>60.64                           | Limit dBuV/m 68.20 94.31 110.54 122.20   | Margin  dB  -7.21  -32.80  -49.42  -62.04  -61.56                                      | Height (cm) 127 127 127 127 127 127                 | Degree (°) 46 46 46 46 46 46 46             | Remark Peak Peak Peak Peak Peak Peak Peak      |  |
| Freq.  <br>MHz<br>5622.960<br>56971.840<br>57125.800<br>5795.000<br>5858.000<br>5858.000   | Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36 67.80                                   | Factor  -4.83 -5.28 -5.27 -5.17 -5.11 -5.06   | Hori Level 60.75 61.07 63.26 62.44 105.96 63.25 62.74                            | 68.20  Limit  dBuV/m  68.20  103.61  110.54  122.20  122.20 109.95               | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21                         | Height (cm)  100 100 100 100 100 100 100           | Degree (°) 172 172 172 172 172 172 172             | Peak  S795  Remark  Peak Peak Peak Peak Peak Peak Peak Pe | MHz  Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5795.000 5867.760                              | eading dBuV 65.88 66.70 66.40 65.43 107.29 65.75 66.62   | Factor  dB/m  -4.89 -5.19 -5.28 -5.27 -5.11 -4.99                                 | Ver<br>dBuV/m<br>60.99<br>61.51<br>61.12<br>60.16<br>102.12<br>60.64<br>61.63                           | Limit  dBuV/m  68.20 94.31 110.54 122.20 122.20 107.23                           | Margin  dB  -7.21  -32.80  -49.42  -62.04  -61.56  -45.60                              | Height (cm)  127 127 127 127 127 127 127 127        | Degree (°) 46 46 46 46 46 46 46             | Remark Peak Peak Peak Peak Peak Peak Peak      |  |
| Freq.  <br>MHz  <br>5622.960<br>5697.840<br>5719.080<br>5725.000<br>5795.000<br>5858.040<br>9919.240   | dBuV<br>65.58<br>66.37<br>68.54<br>67.71<br>111.13<br>68.36<br>67.30<br>67.31               | Factor  dB/m  -4.83 -5.30 -5.28 -5.27 -5.11 -5.06 -4.58                             | Hori Level  dBuV/m  60.75 61.07 63.24 105.96 63.25 62.74 62.73                   | Ezonta  Limit  dBuV/m  68.20 103.61 110.54 122.20 122.20 109.95 72.45            | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21 -9.72                   | Height (cm)  100 100 100 100 100 100 100 100 100   | Degree (°) 172 172 172 172 172 172 172 172 172     | Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea        | 17265.000  MHz  Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5850.000 5867.760 5508.440          | eading  dBuV  65.88 66.70 65.43 107.29 65.75 66.62 66.62 66.18                                   | Factor<br>dB/m<br>-4.89<br>-5.19<br>-5.27<br>-5.17<br>-5.17<br>-4.68              | Ver<br>Level<br>60.99<br>61.51<br>60.16<br>102.12<br>60.64<br>61.63<br>61.50                            | Himit dBuV/m 68.20 94.31 110.54 122.20 127.23 80.42                              | Margin  dB  -7.21  -32.80  -49.42  -62.04  -61.56  -45.60  -18.92                      | Height (cm) 127 127 127 127 127 127 127 127         | Degree (°) 46 46 46 46 46 46 46 46          | Remark Peak Peak Peak Peak Peak Peak Peak      |  |
| Freq.  <br>MHz  <br>5622.960<br>5697.840<br>5719.080<br>5719.080<br>5725.000<br>5858.000<br>5858.004<br>5858.049   | Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36 67.80                                   | Factor  -4.83 -5.28 -5.27 -5.17 -5.11 -5.06   | Hori Level 60.75 61.07 63.26 62.44 105.96 63.25 62.74                            | 68.20  Limit  dBuV/m  68.20  103.61  110.54  122.20  122.20 109.95               | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21                         | Height (cm)  100 100 100 100 100 100 100           | Degree (°) 172 172 172 172 172 172 172 172 172     | Peak  S795  Remark  Peak Peak Peak Peak Peak Peak Peak Pe | MHz  Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5795.000 5867.760                              | eading dBuV 65.88 66.70 66.40 65.43 107.29 65.75 66.62   | Factor  dB/m  -4.89 -5.19 -5.28 -5.27 -5.11 -4.99                                 | Ver<br>dBuV/m<br>60.99<br>61.51<br>61.12<br>60.16<br>102.12<br>60.64<br>61.63                           | Limit  dBuV/m  68.20 94.31 110.54 122.20 122.20 107.23                           | Margin  dB  -7.21  -32.80  -49.42  -62.04  -61.56  -45.60                              | Height (cm)  127 127 127 127 127 127 127 127        | Degree (°) 46 46 46 46 46 46 46             | Remark Peak Peak Peak Peak Peak Peak Peak      |  |
| Freq.  <br>MHz  <br>566225,000<br>5697,840<br>5719,080<br>5719,000<br>8550,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000   | dBuV<br>65.58<br>66.37<br>68.54<br>67.71<br>111.13<br>68.36<br>67.30<br>67.31               | Factor  dB/m  -4.83 -5.28 -5.27 -5.17 -5.11 -5.04 -4.58 -4.17                       | Hori Level  dBuV/m  60.75 61.07 63.24 105.96 63.25 62.74 62.73                   | Ezonta  Limit  dBuV/m  68.20 103.61 110.54 122.20 122.20 109.95 72.45            | -13.49  Margin  dB -7.45 -42.54 -47.28 -59.76 -58.97 -49.72 -6.08                    | Height (cm) 100 100 100 100 100 100 100 100 100    | Degree (°) 172 172 172 172 172 172 172 172 172 172 | Peak Remark Peak Peak Peak Peak Peak Peak Peak Pea        | Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5850.000 5867.760 5908.440 5952.360                 | eading  dBuV  65.88 66.70 65.43 107.29 65.75 66.62 66.62 66.18                                   | Factor  dB/m  -4.89 -5.19 -5.28 -5.27 -5.17 -5.11 -4.99 -4.68 -4.27               | Ver<br>Level<br>60.99<br>61.51<br>60.16<br>102.12<br>60.64<br>61.63<br>61.50                            | Himit dBuV/m 68.20 94.31 110.54 122.20 127.23 80.42                              | Margin -7.21 -32.80 -49.42 -62.04 -61.56 -45.60 -18.92 -5.85                           | Height (cm) 127 127 127 127 127 127 127 127 127     | Degree (°) 46 46 46 46 46 46 46 46 46 46    | Remark Peak Peak Peak Peak Peak Peak Peak Pea  |  |
| Freq.  <br>MHz  <br>566225,000<br>5697,840<br>5719,080<br>5719,000<br>8550,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000<br>8850,000   | Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36 67.31 66.29  Reading                    | Factor  dB/m  -4.83 -5.28 -5.27 -5.17 -5.11 -5.04 -4.58 -4.17                       | Hori  Level 60.75 61.07 63.26 62.44 62.73 62.12                                  | 68.20  Limit  dBuV/m  68.20  110.54  122.20  122.20  199.95  72.45  68.20        | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21 -9.72 -6.08  Margin     | Height (cm) 100 100 100 100 100 100 100 100 Heigh  | Degree (°) 172 172 172 172 172 172 172 172 172 172 | Remark Peak Peak Peak Peak Peak Peak Peak Pea             | Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5850.000 5867.760 5908.440 5952.360                 | eading<br>dBuV<br>65.88<br>66.70<br>66.40<br>65.43<br>107.29<br>65.75<br>66.62<br>66.62          | Factor  -4.89 -5.19 -5.28 -5.27 -5.17 -5.11 -4.99 -4.68 -4.27                     | Ver<br>Level<br>60.99<br>61.51<br>61.12<br>60.16<br>60.16<br>102.12<br>60.64<br>61.63<br>61.50<br>62.35 | Himit  dBuV/m  68.20 94.31 110.54 122.20 122.20 1107.23 80.42 68.20              | Margin -7.21 -32.80 -49.42 -62.04 -61.56 -45.60 -18.92 -5.85                           | Height (cm) 127 127 127 127 127 127 127 127 127     | Degree (°) 46 46 46 46 46 46 46 46 46 46    | Remark Peak Peak Peak Peak Peak Peak Peak Pea  |  |
| Freq.   MHz   S622.960   S697.840   S719.080   S725.000   S850.000   S850.000   S850.000   S850.000   S650.000   S650.000   Freq.   Fr | Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36 67.31 66.29  Reading  dBuV              | Factor  -4.83 -5.28 -5.27 -5.17 -5.16 -4.58 -4.17  Factor                           | Hori Level  dBuV/m  60.75 61.07 63.26 62.44 105.96 63.25 62.73 62.12 Level       | 68.20  Limit  dBuV/m 68.20 110.54 122.20 122.20 129.95 72.45 68.20 Limit         | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21 -9.72 -6.08  Margin     | Height (cm) 100 100 100 100 100 100 100 100 100 10 | Degree (°) 172 172 172 172 172 172 172 172 172     | Peak  S795  Remark  Peak Peak Peak Peak Peak Peak Peak Pe | Freq. R  MHz  5641.680 5685.240 5719.080 5795.000 5850.000 5850.000 5867.760 5908.440 5952.360  Freq. | eading  dBuV  65.79 66.40 65.43 107.29 65.75 66.62  Reading  dBuV  30.39                         | Factor  dB/m  -4.89 -5.19 -5.28 -5.27 -5.11 -4.99 -4.68 -4.27  Factor  dB/m  7.18 | Ver  Level  dBuV/m  60.99 61.51 61.12 60.16 102.12 60.64 61.63 61.50 62.35  Level                       | tical  Limit  dBuV/m  68.20 94.31 110.54 122.20 127.23 80.42 68.20  Limit        | Margin  -7.21 -32.80 -49.42 -62.04 -61.56 -45.60 -18.92 -5.85  Margin  dB -16.43       | Height (cm) 127 127 127 127 127 127 127 127 127 127 | Degree (°) 46 46 46 46 46 46 46 46 46 46 46 | Remark Peak Peak Peak Peak Peak Peak Peak Pea  |  |
| Freq.  <br>MHz<br>5622.960<br>6697.840<br>67719.080<br>6795.000<br>858.000<br>858.000<br>858.58.040<br>Freq.  <br>MHz  | 42.83  Reading  dBuV  65.58 66.37 68.54 67.71 111.13 68.36 67.80 67.31 66.29  Reading  dBuV | Factor  dB/m  -4.83 -5.30 -5.28 -5.27 -5.17 -5.17 -5.17 -5.4.58 -4.17  Factor  dB/m | Hori Level  dBuV/m  60.75 61.07 63.26 62.44 105.96 63.25 62.74 62.73 62.12 Level | 68.20 Limit  dBuV/m  68.20 110.54 122.20 122.20 129.95 72.45 68.20 Limit  dBuV/m | -13.49  Margin  dB  -7.45 -42.54 -47.28 -59.76 -58.95 -47.21 -9.72 -6.08  Margin  dE | Height (cm) 100 100 100 100 100 100 100 100 100 10 | Degree (°) 172 172 172 172 172 172 172 172 172 172 | Peak  S795  Remark  Peak Peak Peak Peak Peak Peak Peak Pe | Freq. R  MHz  5641.680 5685.240 5719.080 5725.000 5857.760 5908.440 5952.360  Freq.  MHz              | dBuV<br>65.88<br>66.70<br>65.49<br>65.43<br>107.29<br>65.73<br>66.62<br>66.62<br>Reading<br>dBuV | Factor  dB/m  -4.89 -5.19 -5.27 -5.17 -5.17 -4.99 -4.68 -4.27  Factor  dB/m  7.18 | Ver  Level  60.99 61.51 61.12 60.16 102.12 60.64 61.63 61.50 62.35  Level                               | Limit  dBuV/m  68.20 94.31 110.54 122.20 122.20 107.23 80.42 68.20 Limit  dBuV/m | Margin  dB  -7.21 -32.80 -49.42 -62.04  -61.56 -45.60 -18.92 -5.85  Margin  dB  -16.43 | Height (cm) 127 127 127 127 127 127 127 127 127 127 | Degree (°) 46 46 46 46 46 46 46 46 (°)      | Remark Peak Peak Peak Peak Peak Peak Peak      |  |

# 802.11ac VHT80 Mode:

|           |         |        |        |        |        |        |        | 5775     | MHz       |         |        |        |        |          |        |        |         |  |  |
|-----------|---------|--------|--------|--------|--------|--------|--------|----------|-----------|---------|--------|--------|--------|----------|--------|--------|---------|--|--|
|           |         |        | Hori   | zontal |        |        |        |          | Vertical  |         |        |        |        |          |        |        |         |  |  |
| Freq.     | Reading | Factor | Level  | Limit  | Margin | Height | Degree | Remark   | Freq.     | Reading | Factor | Level  | Limit  | Margin H | Height | Degree | Remark  |  |  |
| MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)    |          | MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB       | (cm)   | (°)    |         |  |  |
| 5640.240  | 68.08   | -4.89  | 63.19  | 68.20  | -5.01  | 104    | 171    | Peak     | 5629.080  | 67.75   | -4.84  | 62.91  | 68.20  | -5.29    | 112    |        | Peak    |  |  |
| 5688.840  | 76.43   | -5.22  | 71.21  | 96.97  | -25.76 | 104    | 171    | Peak     | 5699.280  | 73.09   | -5.31  | 67.78  | 104.67 | -36.89   | 112    |        | Peak    |  |  |
| 5705.040  | 78.63   | -5.30  | 73.33  | 106.61 | -33.28 | 104    | 171    | Peak     | 5718.000  | 75.19   | -5.28  | 69.91  |        | -40.33   | 112    | 50     | Peak    |  |  |
| 5725.000  | 77.61   | -5.27  | 72.34  | 122.20 | -49.86 | 104    | 171    | Peak     | 5725.000  | 74.52   | -5.27  | 69.25  | 122.20 | -52.95   | 112    | 50     | Peak    |  |  |
| 5775.000  | 108.24  | -5.20  | 103.04 |        |        | 104    | 171    | Peak     | 5775.000  | 104.06  | -5.20  | 98.86  |        |          | 112    |        | Peak    |  |  |
| 5850.000  | 75.01   | -5.11  | 69.90  | 122.20 | -52.30 | 104    | 171    | Peak     | 5850.000  | 71.12   | -5.11  | 66.01  |        | -56.19   | 112    | 50     | Peak    |  |  |
| 5860.920  | 75.02   | -5.04  | 69.98  | 109.14 | -39.16 | 104    | 171    | Peak     | 5860.560  | 70.48   | -5.05  | 65.43  |        | -43.81   | 112    | 50     | Peak    |  |  |
| 5875.680  | 69.00   | -4.94  | 64.06  | 104.69 | -40.63 | 104    | 171    | Peak     | 5894.040  | 66.62   | -4.82  | 61.80  |        | -29.27   | 112    | 50     | Peak    |  |  |
| 5952.000  | 66.79   | -4.28  | 62.51  | 68.20  | -5.69  | 104    | 171    | Peak     | 5926.080  | 66.25   | -4.51  | 61.74  | 68.20  | -6.46    | 112    | 50     | Peak    |  |  |
| Freq.     | Reading | Factor | Level  | Limit  | Margin | Height | Degree | e Remark | Freq.     | Reading | Factor | Level  | Limit  | Margin   | Height | Degre  | e Remar |  |  |
| MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB     | (cm)   | (°)    |          | MHz       | dBuV    | dB/m   | dBuV/m | dBuV/m | dB       | (cm)   | (°)    |         |  |  |
|           |         |        |        |        |        | . ,    | . ,    |          | 11550.000 | 31.76   | 7.21   | 38.97  | 54.00  | -15.03   | 151    | 92     | Avera   |  |  |
| 11550.000 | 31.81   | 7.21   | 39.02  | 54.00  | -14.98 | 154    | 211    | Average  | 11550.000 |         |        | 48.77  | 74.00  |          |        | 92     |         |  |  |
| 11550.000 | 41.47   | 7.21   | 48.68  | 74.00  | -25.32 | 154    | 211    | Peak     | 17325.000 |         |        | 53.01  | 68.20  |          |        |        | Peak    |  |  |
| 17325.000 | 42.54   | 12.13  | 54.67  | 68.20  | -13.53 | 152    | 3      | Peak     | 1,323.000 | ₩.00    | 12.13  | 33.01  | 50.20  | 15.15    | 133    | 20     | , cak   |  |  |

Level = Reading + Factor.

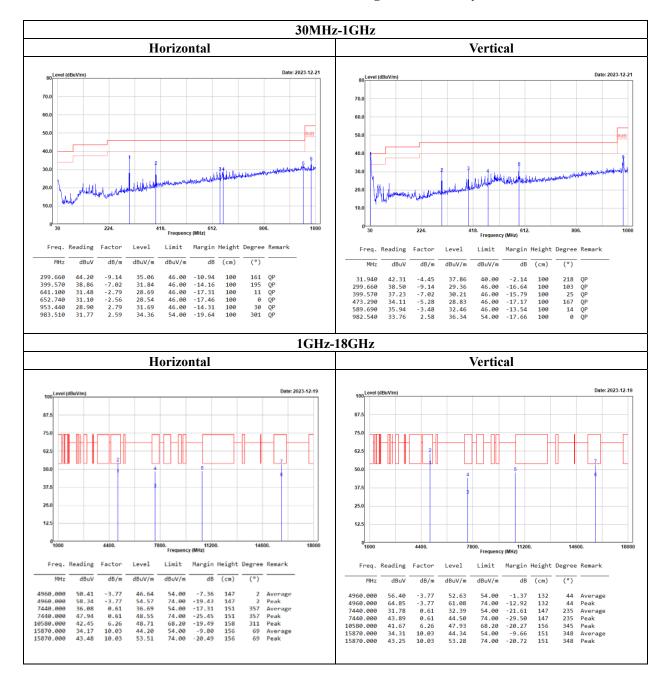
Margin = Level-Limit.

 $Factor = Antenna \; Factor + Cable \; Loss - Amplifier \; Gain.$ 

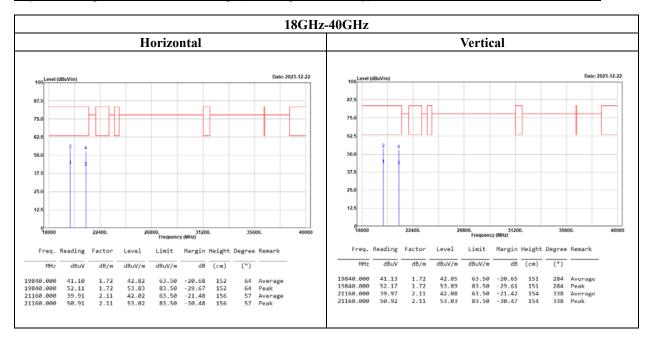
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory) Page 54 of 133

## Transmitting simultaneously test:

#### The worst case of WIFI 5GHz and BT mode transmitting simultaneously:



No.: RXZ231115070RF03



Level = Reading + Factor.

Margin = Level - Limit.

# 10 RSS-247 §6.2.1.2 – 26dB Attenuated Below The Channel Power

No.: RXZ231115070RF03

#### 10.1 Applicable Standard

RSS-247 Clause 6.2.1.2

For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. Any unwanted emissions that fall into the band 5250-5350 MHz shall be attenuated below the channel power by at least 26 dB, when measured using a resolution bandwidth between 1 and 5% of the occupied bandwidth (i.e. 99% bandwidth), above 5250 MHz. The 26 dB bandwidth may fall into the 5250-5350 MHz band; however, if the occupied bandwidth also falls within the 5250-5350 MHz band, the transmission is considered as intentional and the devices shall comply with all requirements in the band 5250-5350 MHz including implementing dynamic frequency selection (DFS) and TPC, on the portion of the emission that resides in the 5250-5350 MHz band.

#### 10.2 Test Procedure

- 1. Set RBW =  $1\%\sim5\%$  of the emission bandwidth.
- 2. Set the VBW > RBW.
- 3. Detector = RMS.
- 4. Trace mode = max hold
- 5. Measure the emission attenuated below the channel power

#### 10.3 Test Results

The requirement is for 5150-5250 MHz band. The channel power please refer to the power test result in section 12.3.

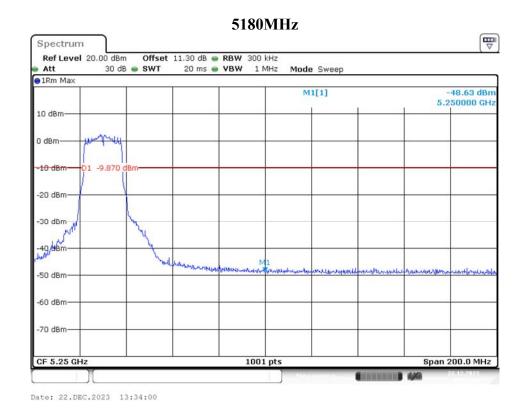
Note: It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (New Taipei Laboratory)

Page 57 of 133

## Transmitting Mode:

#### IEEE 802.11a Mode / 5150 ~ 5250MHz

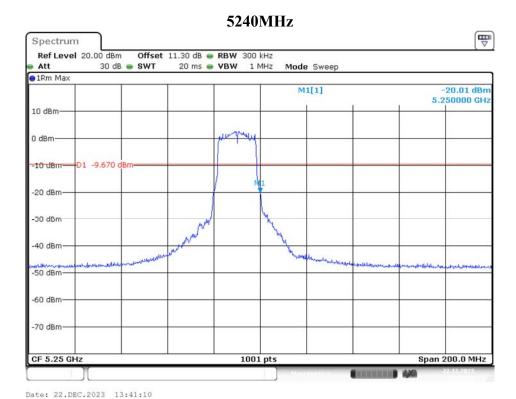
Date: 22.DEC.2023 13:37:26



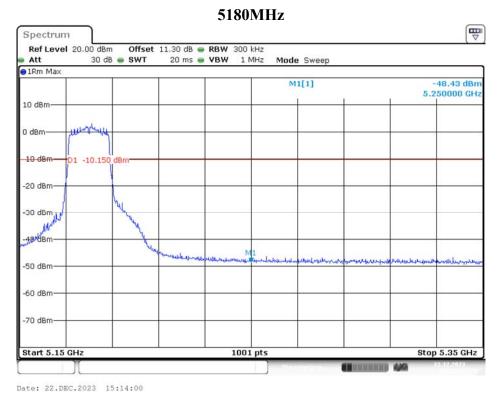
No.: RXZ231115070RF03

**5200MHz** Spectrum Ref Level 20.00 dBm Offset 11.30 dB @ RBW 300 kHz Att 30 dB 🌞 SWT 20 ms 🌞 **VBW** Mode Sweep ●1Rm Max M1[1] 47.26 dBn 5.250000 GHz 10 dBm 0 dBm -10 dBm D1 -9.760 -20 dBm -30 dBm 40 dBm -50 dBm -60 dBm -70 dBm CF 5.25 GHz Span 200.0 MHz 1001 pts

#### No.: RXZ231115070RF03

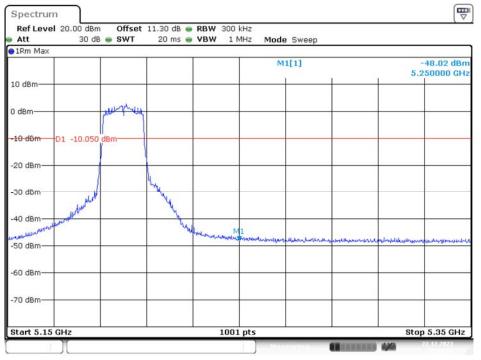


#### IEEE 802.11ac VHT20 Mode / 5150 ~ 5250MHz



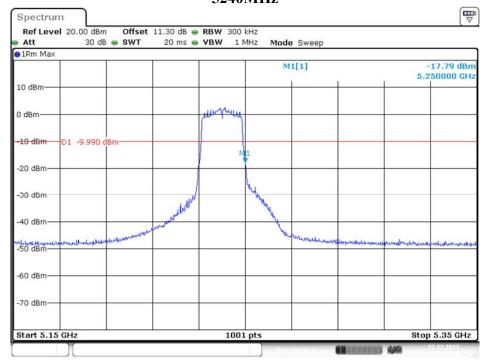
#### No.: RXZ231115070RF03

#### 5200MHz



Date: 22.DEC.2023 15:15:50

## 5240MHz



Date: 22.DEC.2023 15:17:29