



# FCC RF Test Report

**APPLICANT** : Ring LLC  
**EQUIPMENT** : Spotlight Cam Pro  
**BRAND NAME** : Ring  
**MODEL NAME** : 5E62E9  
**FCC ID** : 2AEUPBHASP001  
**STANDARD** : FCC Part 15 Subpart E §15.407  
**CLASSIFICATION** : (NII) Unlicensed National Information Infrastructure  
**TEST DATE(S)** : Jul. 27, 2022 ~ Jul. 31, 2022

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

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

Jason Jia

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Approved by: Jason Jia



**Sporton International Inc. (Kunshan)**

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People's Republic of China**



## TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>REVISION HISTORY.....</b>                              | <b>3</b>  |
| <b>SUMMARY OF TEST RESULT .....</b>                       | <b>4</b>  |
| <b>1 GENERAL DESCRIPTION .....</b>                        | <b>5</b>  |
| 1.1 Applicant.....  | 5         |
| 1.2 Manufacturer.....                                     | 5         |
| 1.3 Product Feature of Equipment Under Test.....          | 5         |
| 1.4 Product Specification of Equipment Under Test.....    | 5         |
| 1.5 Modification of EUT .....                             | 5         |
| 1.6 Testing Location .....                                | 6         |
| 1.7 Test Software.....                                    | 6         |
| 1.8 Applicable Standards.....                             | 6         |
| <b>2 TEST CONFIGURATION OF EQUIPMENT UNDER TEST .....</b> | <b>7</b>  |
| 2.1 Carrier Frequency and Channel .....                   | 7         |
| 2.2 Test Mode.....  | 7         |
| 2.3 Connection Diagram of Test System.....                | 8         |
| 2.4 EUT Operation Test Setup .....                        | 8         |
| <b>3 TEST RESULT .....</b>                                | <b>9</b>  |
| 3.1 Maximum Conducted Output Power Measurement .....      | 9         |
| 3.2 Unwanted Emissions Measurement .....                  | 11        |
| <b>4 LIST OF MEASURING EQUIPMENT .....</b>                | <b>15</b> |
| <b>5 UNCERTAINTY OF EVALUATION .....</b>                  | <b>16</b> |
| <b>APPENDIX A. RADIATED SPURIOUS EMISSION</b>             |           |
| <b>APPENDIX B. DUTY CYCLE PLOTS</b>                       |           |
| <b>APPENDIX C. SETUP PHOTOGRAPHS</b>                      |           |



## REVISION HISTORY

| REPORT NO.   | VERSION | DESCRIPTION             | ISSUED DATE   |
|--------------|---------|-------------------------|---------------|
| FR1D0812-01G | Rev. 01 | Initial issue of report | Oct. 12, 2022 |
|              |         |                         |               |
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|              |         |                         |               |
|              |         |                         |               |

## SUMMARY OF TEST RESULT

| Report Section | FCC Rule  | Description                    | Limit                       | Result | Remark                              |
|----------------|-----------|--------------------------------|-----------------------------|--------|-------------------------------------|
| 3.1            | 15.407(a) | Maximum Conducted Output Power | $\leq 30$ dBm               | Pass   | -                                   |
| 3.2            | 15.407(b) | Unwanted Emissions             | 15.407(b)(4)(i) & 15.209(a) | Pass   | Under limit 9.14 dB at 11650.00 MHz |

**Note:** This is a variant report for 5E62E9, the change note could be referred to 5E62E9\_Operational Description of Product Equality Declaration which is exhibit separately. According to the change, the worst cases of conducted power and RSE from original report; all the other test cases are leveraged from original report FR1D0812G.

**Declaration of Conformity:**

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

**Comments and Explanations:**

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



# 1 General Description

## 1.1 Applicant

Ring LLC

12515 Cerise Ave, Hawthorne, CA 90250 USA

## 1.2 Manufacturer

Goertek Inc.

No.268 Dongfang Road High-Tech Industrial Development District, Weifang Shandong, China

## 1.3 Product Feature of Equipment Under Test

| Product Feature |                     |
|-----------------|---------------------|
| Equipment       | Spotlight Cam Pro   |
| Brand Name      | Ring                |
| Model Name      | 5E62E9              |
| FCC ID          | 2AEUPBHASP001       |
| HW Version      | DVT2                |
| SW Version      | 1.5.17              |
| EUT Stage       | Identical Prototype |

**Remark:** The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

## 1.4 Product Specification of Equipment Under Test

| Standards-related Product Specification |  |
|---|--|
| Tx/Rx Channel Frequency Range           | 5745 MHz ~ 5825 MHz  |
| Maximum Output Power                    | <5745 MHz ~ 5825 MHz><br>802.11a : 15.21 dBm / 0.0332 W<br>802.11n HT20 : 14.97 dBm / 0.0314 W |
| Type of Modulation                      | 802.11a/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)   |
| Antenna Type / Gain                     | Stamping antenna with gain 4.51 dBi  |

## 1.5 Modification of EUT

No modifications are made to the EUT during all test items.

## 1.6 Testing Location

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

|                    |  |                     |                                |
|--------------------|--|---------------------|--------------------------------|
| Test Firm          | Sporton International Inc. (Kunshan)   |                     |                                |
| Test Site Location | No. 1098, Pengxi North Road, Kunshan Economic Development Zone<br>Jiangsu Province 215300 People's Republic of China<br>TEL : +86-512-57900158<br>FAX : +86-512-57900958 |                     |                                |
| Test Site No.      | Sporton Site No.   | FCC Designation No. | FCC Test Firm Registration No. |
|                    | 03CH03-KS<br>TH01-KS   | CN1257              | 314309                         |

## 1.7 Test Software

| Item | Site      | Manufacturer | Name | Version      |
|------|-----------|--------------|------|--------------|
| 1.   | 03CH03-KS | AUDIX        | E3   | 6.2009-8-24a |

## 1.8 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ 47 CFR Part 15 Subpart E
- ♦ FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ♦ ANSI C63.10-2013

### Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

## 2 Test Configuration of Equipment Under Test

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

### 2.1 Carrier Frequency and Channel

| Frequency Band           | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|--------------------------|---------|-------------|---------|-------------|
| 5745-5825 MHz<br>U-NII-3 | 149     | 5745        | 161     | 5805        |
|                          | 153     | 5765        | 165     | 5825        |
|                          | 157     | 5785        | -       | -           |

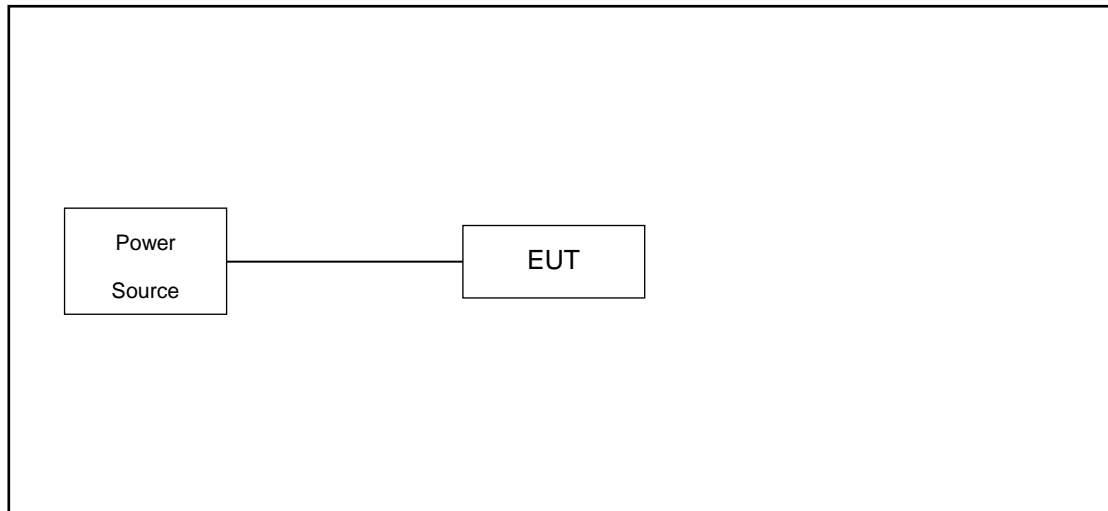
### 2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

| Modulation | Data Rate |
|------------|-----------|
| 802.11a    | 6 Mbps    |

| Ch. # |        | U-NII-3 : 5745-5825 MHz |
|-------|--------|-------------------------|
|       |        | 802.11a                 |
| L     | Low    | -                       |
| M     | Middle | -                       |
| H     | High   | 165                     |

## 2.3 Connection Diagram of Test System



## 2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.



### 3 Test Result

#### 3.1 Maximum Conducted Output Power Measurement

##### 3.1.1 Limit of Maximum Conducted Output Power

For the band 5.725–5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W.

For Straddle Channel, According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, If the power and PSD of the devices are uniform and comply with the lower limits specified for the U-NII-2 bands, a single measurement over the entire emission bandwidth can be performed to show compliance.

If transmitting antennas of directional gain greater than 6 dBi are used, the peak output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

##### 3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

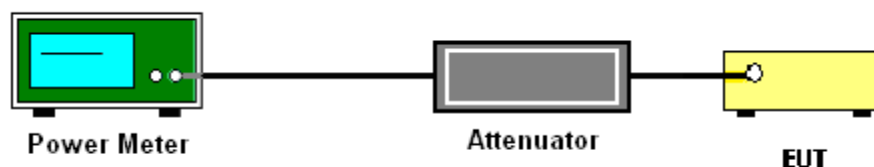
##### 3.1.3 Test Procedures

The testing follows Method PM of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

Method PM (Measurement using an RF average power meter):

1. Measurement is performed using a wideband RF power meter.
2. The EUT is configured to transmit continuously with a consistent duty cycle at its maximum power control level.
3. Measure the average power of the transmitter, and the average power is corrected with duty factor,  $10 \log(1/x)$ , where  $x$  is the duty cycle.

##### 3.1.4 Test Setup



**3.1.5 Test Result of Maximum Conducted Output Power**

| U-NII-3 |           |     |     |             |                  |                               |                                 |          |   |           |
|---------|-----------|-----|-----|-------------|------------------|-------------------------------|---------------------------------|----------|---|-----------|
| Mod.    | Data Rate | NTX | CH. | Freq. (MHz) | Duty Factor (dB) | Average Conducted Power (dBm) | FCC Conducted Power Limit (dBm) | DG (dBi) | — | Pass/Fail |
| 11a     | 6Mbps     | 1   | 165 | 5825        | 0.08             | 15.21                         | 30.00                           | 4.51     | — | Pass      |
| HT20    | MCS0      | 1   | 165 | 5825        | 0.08             | 14.97                         | 30.00                           | 4.51     | — | Pass      |

## 3.2 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

### 3.2.1 Limit of Unwanted Emissions

- (1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) 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.

- (2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

| Frequency<br>(MHz) | Field Strength<br>(microvolts/meter) | Measurement Distance<br>(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                                |

| EIRP (dBm) | Field Strength at 3m (dBμV/m) |
|------------|-------------------------------|
| - 27       | 68.2                          |

**Note:** The following formula is used to convert the EIRP to field strength.

$$\text{EIRP} = E_{\text{Meas}} + 20\log(d_{\text{Meas}}) - 104.7$$

where

EIRP is the equivalent isotropically radiated power, in dBm

$E_{\text{Meas}}$  is the field strength of the emission at the measurement distance, in dBμV/m

$d_{\text{Meas}}$  is the measurement distance, in m

### 3.2.2 Measuring Instruments

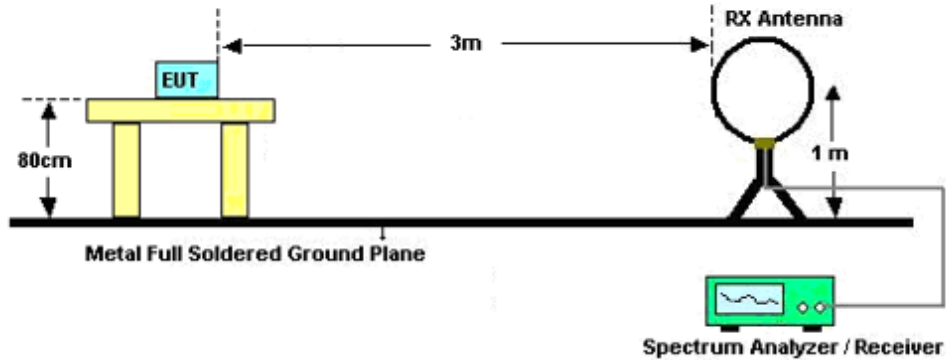
The measuring equipment is listed in the section 4 of this test report.

### 3.2.3 Test Procedures

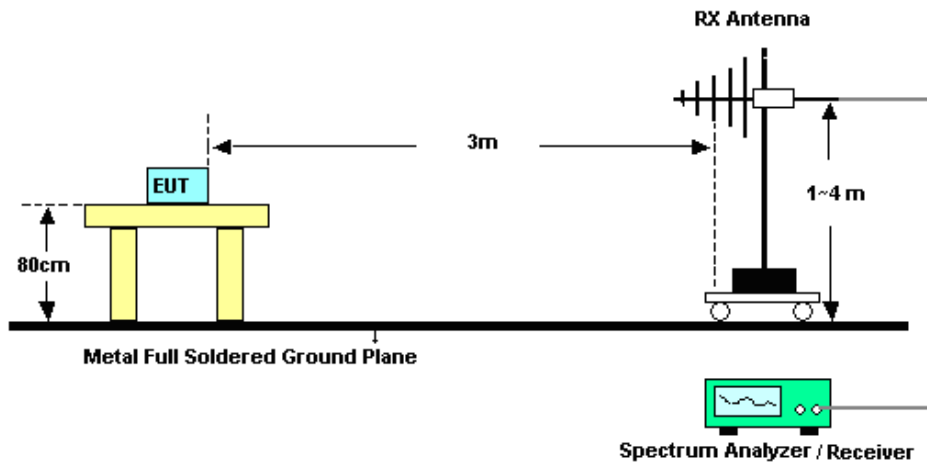
1. The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.  
Section G) Unwanted emissions measurement.
  - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
    - RBW = 120 kHz
    - VBW = 300 kHz
    - Detector = Peak
    - Trace mode = max hold
  - (2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz
    - RBW = 1 MHz
    - VBW  $\geq$  3 MHz
    - Detector = Peak
    - Sweep time = auto
    - Trace mode = max hold
  - (3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz
    - RBW = 1 MHz
    - VBW = 10 Hz, when duty cycle is no less than 98 percent.
    - VBW  $\geq$  1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.
2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.

### 3.2.4 Test Setup

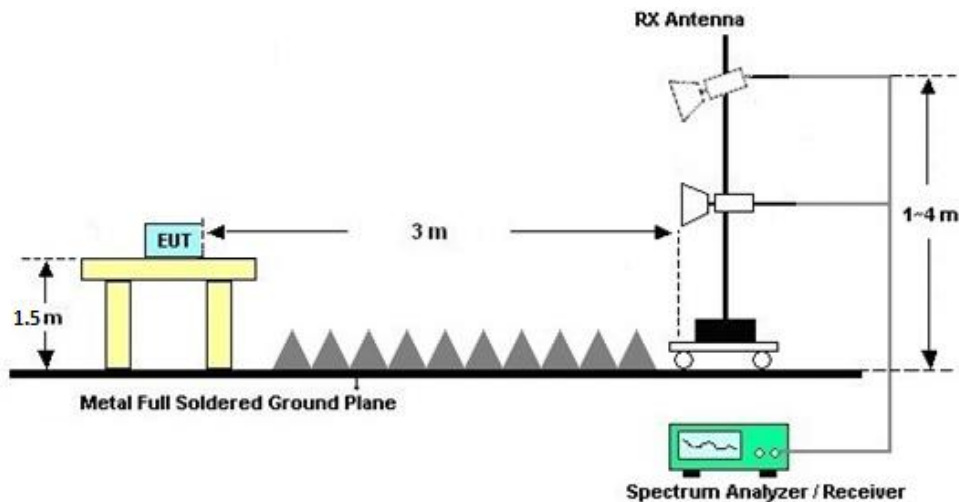
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz





### **3.2.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)**

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

### **3.2.6 Test Result of Radiated Band Edges**

Please refer to Appendix A.

### **3.2.7 Duty Cycle**

Please refer to Appendix B.

### **3.2.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)**

Please refer to Appendix A.



## 4 List of Measuring Equipment

| Instrument                | Manufacturer | Model No.              | Serial No. | Characteristics      | Calibration Date | Test Date     | Due Date      | Remark                |
|---------------------------|--------------|------------------------|------------|----------------------|------------------|---------------|---------------|-----------------------|
| Pulse Power Sensor        | Anritsu      | MA2411B                | 0917070    | 300MHz~40GHz         | Jan. 05, 2021    | Jul. 31, 2022 | Jan. 04, 2023 | Conducted (TH01-KS)   |
| Power Meter               | Anritsu      | ML2495A                | 1005002    | 50MHz Bandwidth      | Jan. 05, 2021    | Jul. 31, 2022 | Jan. 04, 2023 | Conducted (TH01-KS)   |
| EMI Test Receiver         | Keysight     | N9038A                 | MY56400023 | 3Hz~8.5GHz;Max 30dBm | Oct. 14, 2021    | Jul. 27, 2022 | Oct. 13, 2022 | Radiation (03CH03-KS) |
| EXA Spectrum Analyzer     | Keysight     | N9010A                 | MY55370528 | 10Hz~44GHz           | Oct. 14, 2021    | Jul. 27, 2022 | Oct. 13, 2022 | Radiation (03CH03-KS) |
| Loop Antenna              | R&S          | HFH2-Z2                | 100321     | 9kHz~30MHz           | Oct. 23, 2021    | Jul. 27, 2022 | Oct. 22, 2022 | Radiation (03CH03-KS) |
| Bilog Antenna             | TeseQ        | CBL6112D               | 23182      | 30MHz~1GHz           | Dec. 22, 2021    | Jul. 27, 2022 | Dec. 21, 2022 | Radiation (03CH03-KS) |
| Double Ridge Horn Antenna | ETS-Lindgren | 3117                   | 75959      | 1GHz~18GHz           | Dec. 24, 2021    | Jul. 27, 2022 | Dec. 23, 2022 | Radiation (03CH03-KS) |
| SHF-EHF Horn              | com-power    | AH-840                 | 101115     | 18GHz~40GHz          | Dec. 23, 2021    | Jul. 27, 2022 | Dec. 22, 2022 | Radiation (03CH03-KS) |
| Amplifier                 | Burgeon      | BPA-530                | 102220     | 30MHz~1000MHz        | Oct. 14, 2021    | Jul. 27, 2022 | Oct. 13, 2022 | Radiation (03CH03-KS) |
| Amplifier                 | EM           | EM18G40GA              | 060851     | 18~40GHz             | Jan. 05, 2021    | Jul. 27, 2022 | Jan. 04, 2023 | Radiation (03CH03-KS) |
| high gain Amplifier       | MITEQ        | AMF-7D-00101800-30-10P | 2082394    | 1Ghz-18Ghz           | Jan. 05, 2021    | Jul. 27, 2022 | Jan. 04, 2023 | Radiation (03CH03-KS) |
| Amplifier                 | Keysight     | 83017A                 | MY53270319 | 1GHz~26.5GHz         | Oct. 14, 2021    | Jul. 27, 2022 | Oct. 13, 2022 | Radiation (03CH03-KS) |
| AC Power Source           | Chroma       | 61601                  | F104090004 | N/A                  | NCR              | Jul. 27, 2022 | NCR           | Radiation (03CH03-KS) |
| Turn Table                | ChamPro      | EM 1000-T              | 060762-T   | 0~360 degree         | NCR              | Jul. 27, 2022 | NCR           | Radiation (03CH03-KS) |
| Antenna Mast              | ChamPro      | EM 1000-A              | 060762-A   | 1 m~4 m              | NCR              | Jul. 27, 2022 | NCR           | Radiation (03CH03-KS) |

NCR: No Calibration Required

## 5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

### Uncertainty of Conducted Measurement

| Test Item       | Uncertainty   |
|-----------------|---------------|
| Conducted Power | $\pm 0.56$ dB |

### Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

|  |       |
|--|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.0dB |
|--|-------|

### Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

|  |       |
|--|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.0dB |
|--|-------|

### Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

|  |       |
|--|-------|
| Measuring Uncertainty for a Level of Confidence of 95% ( $U = 2U_c(y)$ ) | 5.0dB |
|--|-------|

----- THE END -----



## Appendix A. Radiated Spurious Emission

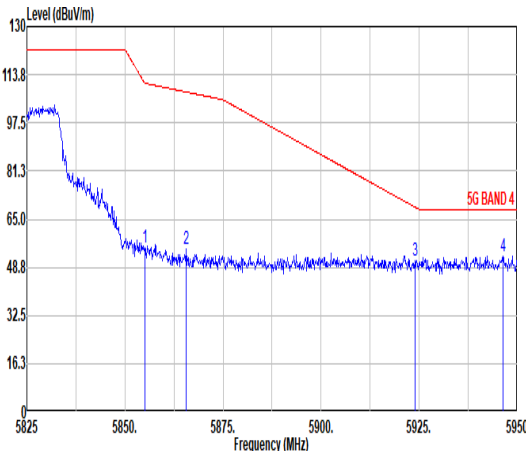
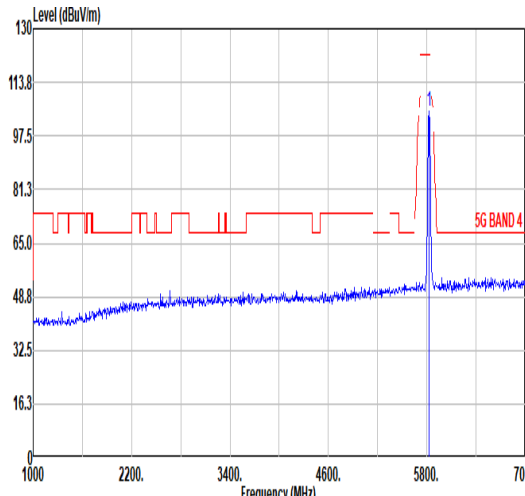
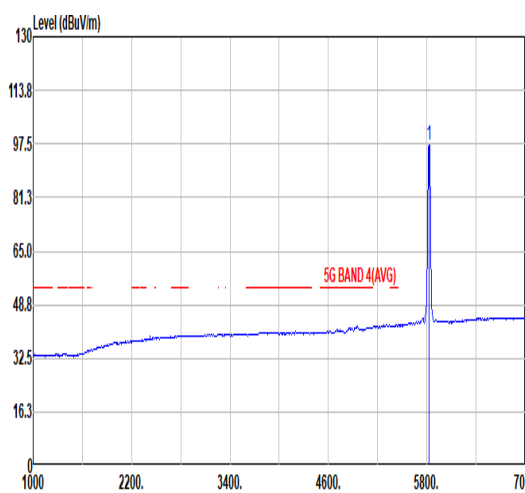
### Radiated Spurious Emission Test Modes

| Mode   | Band    | Band (GHz) | Antenna | Modulation | Channel | Frequency | Data Rate | RU | Remark |
|--------|---------|------------|---------|------------|---------|-----------|-----------|----|--------|
| Mode 2 | U-NII-3 | 5.725-5.85 | 1       | 802.11a    | 165     | 5825      | 6Mbps     | -  | -      |

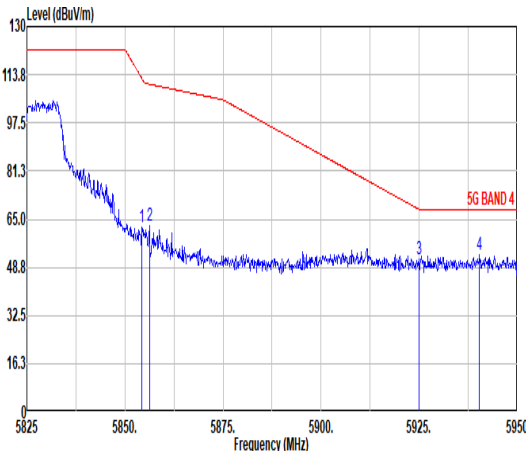
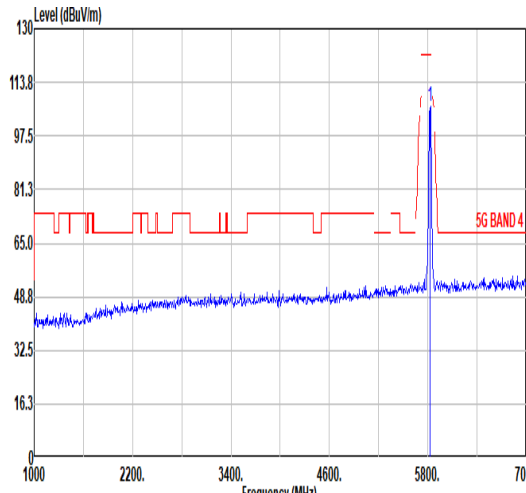
### Summary of each worse mode

| Mode | Modulation | Ch. | Freq. (MHz) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Pol. | Peak Avg. | Result | Remark   |
|------|------------|-----|-------------|----------------|----------------|-------------|------|-----------|--------|----------|
| 2    | 802.11a    | 165 | 11650.00    | 44.86          | 54.00          | -9.14       | V    | AVERAGE   | Pass   | Harmonic |

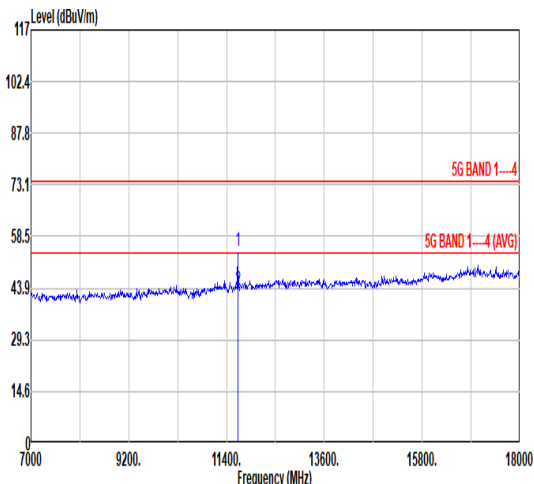
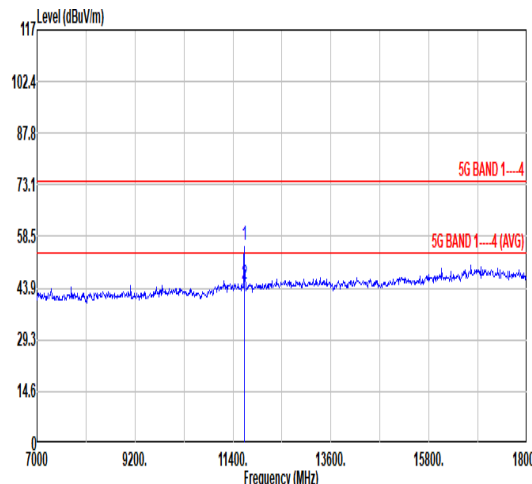


| Mode | 2   |        |        |        |        |       |   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|------|---|--------|--------|--------|--------|-------|---|--------|--------|-----|-------|---------|-----|-------|------|--------|-------|--------|------|--------|-------|--------|------|--------|--------|--------|-------|--------|--------|--------|--------|------|-----|--------|--------|----|------|------|---------|-------|--------|--------|-------|-------|---------|-------|-------|-------|-------|-------|-------|---------|-------|--------|--------|---------|-------|-------|-------|------|-----|-----|------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|---|--|--|--|--|--|--|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|---|---------|--------|--------|--------|-------|-------|-------|-------|------|-----|-----|
|      | Band Edge   |        |        |        |        |       |   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|      | U-NII-3_5.725-5.85_802.11a_CH165_5825MHz  |        |        |        |        |       |   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| ANT  | 1   |        |        |        |        |       |   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Pol. | Horizontal  |        |        |        |        |       | Fundamental   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Peak |   |        |        |        |        |       |    |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|      | <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5855.00</td><td>55.43</td><td>110.90</td><td>-55.47</td><td>40.55</td><td>34.87</td><td>11.49</td><td>31.48</td><td>0.00</td><td>300</td><td>304</td><td>PEAK</td></tr><tr><td>2</td><td>5865.63</td><td>55.17</td><td>107.92</td><td>-52.75</td><td>40.27</td><td>34.88</td><td>11.50</td><td>31.48</td><td>0.00</td><td>300</td><td>304</td><td>PEAK</td></tr><tr><td>3</td><td>5924.00</td><td>51.12</td><td>69.04</td><td>-17.92</td><td>36.14</td><td>34.93</td><td>11.55</td><td>31.50</td><td>0.00</td><td>300</td><td>304</td><td>PEAK</td></tr><tr><td>4</td><td>5946.38</td><td>52.50</td><td>68.30</td><td>-15.80</td><td>37.48</td><td>34.95</td><td>11.57</td><td>31.50</td><td>0.00</td><td>300</td><td>304</td><td>PEAK</td></tr></tbody></table> |        |        |        |        |       |   | Limit  | Read   | Ant | Cable | Preamp  | Aux | APos  | TPos | Remark | Freq  | Level  | Line | Margin | Level | Factor | Loss | Factor | Factor |        | MHz   | dBuV/m | dBuV/m | dB     | dBuV   | dB/m | dB  | dB     | dB     | cm | deg  | 1    | 5855.00 | 55.43 | 110.90 | -55.47 | 40.55 | 34.87 | 11.49   | 31.48 | 0.00  | 300   | 304   | PEAK  | 2     | 5865.63 | 55.17 | 107.92 | -52.75 | 40.27   | 34.88 | 11.50 | 31.48 | 0.00 | 300 | 304 | PEAK | 3 | 5924.00 | 51.12 | 69.04 | -17.92 | 36.14 | 34.93 | 11.55 | 31.50 | 0.00 | 300 | 304 | PEAK | 4 | 5946.38 | 52.50 | 68.30 | -15.80 | 37.48 | 34.95 | 11.57 | 31.50 | 0.00 | 300 | 304 | PEAK | <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5825.00</td><td>104.88</td><td>122.30</td><td>-17.42</td><td>90.03</td><td>34.85</td><td>11.47</td><td>31.47</td><td>0.00</td><td>300</td><td>304</td><td>PEAK</td></tr></tbody></table> |  |  |  |  |  |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 5825.00 | 104.88 | 122.30 | -17.42 | 90.03 | 34.85 | 11.47 | 31.47 | 0.00 | 300 | 304 |
|      | Limit   | Read   | Ant    | Cable  | Preamp | Aux   | APos  | TPos   | Remark |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Freq | Level   | Line   | Margin | Level  | Factor | Loss  | Factor  | Factor |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| MHz  | dBuV/m  | dBuV/m | dB     | dBuV   | dB/m   | dB    | dB  | dB     | cm     | deg |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 1    | 5855.00   | 55.43  | 110.90 | -55.47 | 40.55  | 34.87 | 11.49   | 31.48  | 0.00   | 300 | 304   | PEAK    |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 2    | 5865.63   | 55.17  | 107.92 | -52.75 | 40.27  | 34.88 | 11.50   | 31.48  | 0.00   | 300 | 304   | PEAK    |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 3    | 5924.00   | 51.12  | 69.04  | -17.92 | 36.14  | 34.93 | 11.55   | 31.50  | 0.00   | 300 | 304   | PEAK    |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 4    | 5946.38   | 52.50  | 68.30  | -15.80 | 37.48  | 34.95 | 11.57   | 31.50  | 0.00   | 300 | 304   | PEAK    |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|      | Limit   | Read   | Ant    | Cable  | Preamp | Aux   | APos  | TPos   | Remark |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Freq | Level   | Line   | Margin | Level  | Factor | Loss  | Factor  | Factor |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| MHz  | dBuV/m  | dBuV/m | dB     | dBuV   | dB/m   | dB    | dB  | dB     | cm     | deg |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 1    | 5825.00   | 104.88 | 122.30 | -17.42 | 90.03  | 34.85 | 11.47   | 31.47  | 0.00   | 300 | 304   | PEAK    |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Avg  | Blank   |        |        |        |        |       |   |        |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|      |   |        |        |        |        |       | <table><thead><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr></thead><tbody><tr><td>1</td><td>5825.00</td><td>97.26</td><td>68.30</td><td>28.96</td><td>82.41</td><td>34.85</td><td>11.47</td><td>31.47</td><td>0.00</td><td>300</td><td>304</td><td>AVERAGE</td></tr></tbody></table> |        |        |     |       |         |     | Limit | Read | Ant    | Cable | Preamp | Aux  | APos   | TPos  | Remark | Freq | Level  | Line   | Margin | Level | Factor | Loss   | Factor | Factor |      | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB      | dB    | dB     | cm     | deg   | 1     | 5825.00 | 97.26 | 68.30 | 28.96 | 82.41 | 34.85 | 11.47 | 31.47   | 0.00  | 300    | 304    | AVERAGE |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
|      | Limit   | Read   | Ant    | Cable  | Preamp | Aux   | APos  | TPos   | Remark |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| Freq | Level   | Line   | Margin | Level  | Factor | Loss  | Factor  | Factor |        |     |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| MHz  | dBuV/m  | dBuV/m | dB     | dBuV   | dB/m   | dB    | dB  | dB     | cm     | deg |       |         |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |
| 1    | 5825.00   | 97.26  | 68.30  | 28.96  | 82.41  | 34.85 | 11.47   | 31.47  | 0.00   | 300 | 304   | AVERAGE |     |       |      |        |       |        |      |        |       |        |      |        |        |        |       |        |        |        |        |      |     |        |        |    |      |      |         |       |        |        |       |       |         |       |       |       |       |       |       |         |       |        |        |         |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |        |        |        |       |       |       |       |      |     |     |



| Mode | 2   |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|------|---|--------|--------|--------|--------|--------|--------|--------|--------|--------|-----|---------|-------|------|-----|-------|--------|-----|------|------|--------|------|-------|------|--------|-------|--------|------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|----|-----|---|---------|-------|--------|--------|-------|-------|-------|-------|------|-----|-----|---------|---|---------|-------|--------|--------|-------|-------|-------|-------|------|-----|-----|------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|---|---------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|
|      | Band Edge   |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|      | U-NII-3_5.725-5.85_802.11a_CH165_5825MHz  |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| ANT  | 1   |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| Pol. | Vertical  |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| Peak |   |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|      | <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5854.38</td><td>62.27</td><td>112.32</td><td>-50.05</td><td>47.39</td><td>34.87</td><td>11.49</td><td>31.48</td><td>0.00</td><td>360</td><td>259</td><td>PEAK</td></tr><tr><td>2</td><td>5856.25</td><td>62.88</td><td>110.55</td><td>-47.67</td><td>47.99</td><td>34.88</td><td>11.49</td><td>31.48</td><td>0.00</td><td>360</td><td>259</td><td>PEAK</td></tr><tr><td>3</td><td>5924.88</td><td>51.43</td><td>68.39</td><td>-16.96</td><td>36.45</td><td>34.93</td><td>11.55</td><td>31.50</td><td>0.00</td><td>360</td><td>259</td><td>PEAK</td></tr><tr><td>4</td><td>5948.38</td><td>53.10</td><td>68.30</td><td>-15.20</td><td>38.10</td><td>34.94</td><td>11.56</td><td>31.50</td><td>0.00</td><td>360</td><td>259</td><td>PEAK</td></tr></table> |        |        |        |        |        |        |        |        |        |     |         | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 5854.38 | 62.27 | 112.32 | -50.05 | 47.39 | 34.87 | 11.49 | 31.48 | 0.00 | 360 | 259 | PEAK    | 2 | 5856.25 | 62.88 | 110.55 | -47.67 | 47.99 | 34.88 | 11.49 | 31.48 | 0.00 | 360 | 259 | PEAK | 3 | 5924.88 | 51.43 | 68.39 | -16.96 | 36.45 | 34.93 | 11.55 | 31.50 | 0.00 | 360 | 259 | PEAK | 4 | 5948.38 | 53.10 | 68.30 | -15.20 | 38.10 | 34.94 | 11.56 | 31.50 | 0.00 | 360 | 259 | PEAK |
|      |   | Limit  | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos   | Remark |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| Freq | Level   | Line   | Margin | Level  | Factor | Loss   | Factor | Factor |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| MHz  | dBuV/m  | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | dB     | cm     | deg    |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| 1    | 5854.38   | 62.27  | 112.32 | -50.05 | 47.39  | 34.87  | 11.49  | 31.48  | 0.00   | 360    | 259 | PEAK    |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| 2    | 5856.25   | 62.88  | 110.55 | -47.67 | 47.99  | 34.88  | 11.49  | 31.48  | 0.00   | 360    | 259 | PEAK    |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| 3    | 5924.88   | 51.43  | 68.39  | -16.96 | 36.45  | 34.93  | 11.55  | 31.50  | 0.00   | 360    | 259 | PEAK    |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| 4    | 5948.38   | 53.10  | 68.30  | -15.20 | 38.10  | 34.94  | 11.56  | 31.50  | 0.00   | 360    | 259 | PEAK    |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| Avg  | Blank   |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|      |    |        |        |        |        |        |        |        |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|      | <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th>Remark</th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th></th></tr><tr><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>5825.00</td><td>99.26</td><td>68.30</td><td>30.96</td><td>84.41</td><td>34.85</td><td>11.47</td><td>31.47</td><td>0.00</td><td>360</td><td>259</td><td>AVERAGE</td></tr></table>   |        |        |        |        |        |        |        |        |        |     |         | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos | Remark | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | dB | cm | deg | 1 | 5825.00 | 99.26 | 68.30  | 30.96  | 84.41 | 34.85 | 11.47 | 31.47 | 0.00 | 360 | 259 | AVERAGE |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
|      | Limit   | Read   | Ant    | Cable  | Preamp | Aux    | APos   | TPos   | Remark |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| Freq | Level   | Line   | Margin | Level  | Factor | Loss   | Factor | Factor |        |        |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| MHz  | dBuV/m  | dBuV/m | dB     | dBuV   | dB/m   | dB     | dB     | dB     | cm     | deg    |     |         |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |
| 1    | 5825.00   | 99.26  | 68.30  | 30.96  | 84.41  | 34.85  | 11.47  | 31.47  | 0.00   | 360    | 259 | AVERAGE |       |      |     |       |        |     |      |      |        |      |       |      |        |       |        |      |        |        |  |     |        |        |    |      |      |    |    |    |    |     |   |         |       |        |        |       |       |       |       |      |     |     |         |   |         |       |        |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |   |         |       |       |        |       |       |       |       |      |     |     |      |



| Mode            | 2  |        |        |        |        |        |   |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|-----------------|--|--------|--------|--------|--------|--------|---|--------|--------|-----|-------|---------|-----|------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|---|----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|---------|---|--|--|--|--|--|--|-------|------|-----|-------|--------|-----|------|------|--|------|-------|------|--------|-------|--------|------|--------|--------|--------|--|-----|--------|--------|----|------|------|----|----|----|-----|---|----------|-------|-------|--------|-------|-------|-------|-------|------|-----|-----|------|---|----------|-------|-------|-------|-------|-------|-------|-------|------|-----|-----|---------|
|                 | Harmonic   |        |        |        |        |        |   |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|                 | U-NII-3_5.725-5.85_802.11a_CH165_5825MHz   |        |        |        |        |        |   |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| ANT             | 1  |        |        |        |        |        |   |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| Pol.            | Horizontal   |        |        |        |        |        | Vertical  |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| Peak<br><br>Avg |    |        |        |        |        |        |  |        |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|                 | <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>11650.00</td><td>54.27</td><td>74.00</td><td>-19.73</td><td>66.43</td><td>38.19</td><td>16.23</td><td>66.58</td><td>0.00</td><td>300</td><td>126</td><td>PEAK</td></tr><tr><td>2</td><td>11650.00</td><td>43.27</td><td>54.00</td><td>-10.73</td><td>55.42</td><td>38.19</td><td>16.24</td><td>66.58</td><td>0.00</td><td>300</td><td>126</td><td>AVERAGE</td></tr></table> |        |        |        |        |        |   | Limit  | Read   | Ant | Cable | Preamp  | Aux | APos | TPos |  | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 11650.00 | 54.27 | 74.00 | -19.73 | 66.43 | 38.19 | 16.23 | 66.58 | 0.00 | 300 | 126 | PEAK | 2 | 11650.00 | 43.27 | 54.00 | -10.73 | 55.42 | 38.19 | 16.24 | 66.58 | 0.00 | 300 | 126 | AVERAGE | <table><tr><th></th><th>Limit</th><th>Read</th><th>Ant</th><th>Cable</th><th>Preamp</th><th>Aux</th><th>APos</th><th>TPos</th><th></th></tr><tr><th>Freq</th><th>Level</th><th>Line</th><th>Margin</th><th>Level</th><th>Factor</th><th>Loss</th><th>Factor</th><th>Factor</th><th>Remark</th></tr><tr><th></th><th>MHz</th><th>dBuV/m</th><th>dBuV/m</th><th>dB</th><th>dBuV</th><th>dB/m</th><th>dB</th><th>dB</th><th>cm</th><th>deg</th></tr><tr><td>1</td><td>11650.00</td><td>55.95</td><td>74.00</td><td>-18.05</td><td>68.11</td><td>38.19</td><td>16.23</td><td>66.58</td><td>0.00</td><td>100</td><td>225</td><td>PEAK</td></tr><tr><td>2</td><td>11650.00</td><td>44.86</td><td>54.00</td><td>-9.14</td><td>57.00</td><td>38.20</td><td>16.24</td><td>66.58</td><td>0.00</td><td>100</td><td>225</td><td>AVERAGE</td></tr></table> |  |  |  |  |  |  | Limit | Read | Ant | Cable | Preamp | Aux | APos | TPos |  | Freq | Level | Line | Margin | Level | Factor | Loss | Factor | Factor | Remark |  | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | dB | dB | cm | deg | 1 | 11650.00 | 55.95 | 74.00 | -18.05 | 68.11 | 38.19 | 16.23 | 66.58 | 0.00 | 100 | 225 | PEAK | 2 | 11650.00 | 44.86 | 54.00 | -9.14 | 57.00 | 38.20 | 16.24 | 66.58 | 0.00 | 100 | 225 | AVERAGE |
|                 |  | Limit  | Read   | Ant    | Cable  | Preamp | Aux   | APos   | TPos   |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| Freq            | Level  | Line   | Margin | Level  | Factor | Loss   | Factor  | Factor | Remark |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|                 | MHz  | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB  | dB     | cm     | deg |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| 1               | 11650.00   | 54.27  | 74.00  | -19.73 | 66.43  | 38.19  | 16.23   | 66.58  | 0.00   | 300 | 126   | PEAK    |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| 2               | 11650.00   | 43.27  | 54.00  | -10.73 | 55.42  | 38.19  | 16.24   | 66.58  | 0.00   | 300 | 126   | AVERAGE |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|                 | Limit  | Read   | Ant    | Cable  | Preamp | Aux    | APos  | TPos   |        |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| Freq            | Level  | Line   | Margin | Level  | Factor | Loss   | Factor  | Factor | Remark |     |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
|                 | MHz  | dBuV/m | dBuV/m | dB     | dBuV   | dB/m   | dB  | dB     | cm     | deg |       |         |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| 1               | 11650.00   | 55.95  | 74.00  | -18.05 | 68.11  | 38.19  | 16.23   | 66.58  | 0.00   | 100 | 225   | PEAK    |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |
| 2               | 11650.00   | 44.86  | 54.00  | -9.14  | 57.00  | 38.20  | 16.24   | 66.58  | 0.00   | 100 | 225   | AVERAGE |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |        |       |       |       |       |      |     |     |         |   |  |  |  |  |  |  |       |      |     |       |        |     |      |      |  |      |       |      |        |       |        |      |        |        |        |  |     |        |        |    |      |      |    |    |    |     |   |          |       |       |        |       |       |       |       |      |     |     |      |   |          |       |       |       |       |       |       |       |      |     |     |         |

## Appendix B. Duty Cycle Plots

| Band    | Duty Cycle(%) | T(ms) | 1/T(kHz) | VBW Setting |
|---------|---------------|-------|----------|-------------|
| 802.11a | 98.25         | -     | -        | 10Hz        |

### 802.11a

