

**FCC &ISED Radio Test Report****FCC ID: 2AC23-WC16**  
**IC:12290A-WC16****The report concerns: Class II Permissive Change**

Report Reference No. .... : 21EFSS05009 04291  
Date Sample(s) Received ..... : 2021-04-30  
Date of Tested ..... : 2021-04-30 to 2021-05-30  
Date of issue ..... : 2021-06-01  
Testing Laboratory ..... : DongGuan ShuoXin Electronic Technology Co., Ltd.  
Address ..... : Zone A, 1F, No. 6, XinGang Road YuanGang Street,  
XinAn District, ChangAn Town, DongGuan City,  
GuangDong, China  
  
Applicant's name ..... : Hui Zhou Gaoshengda Technology Co., LTD  
Address ..... : NO.75 Zhongkai Development Area, Huizhou,  
Guangdong, China  
Manufacturer ..... : Hui Zhou Gaoshengda Technology Co., LTD  
  
Equipment ..... : WIFI+BT Module  
Trade Mark ..... : GSD  
Model ..... : WC16R2601, WC16R2601F  
Ratings ..... : I/P: DC 3.3V

Test Engineer:



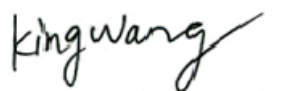
Blue Qiu

Responsible Engineer :



Smile Wang

Authorized Signatory:



King Wang

| Table of Contents                                            | Page       |
|--------------------------------------------------------------|------------|
| <b>1 . TEST REPORT DECLARE</b>                               | <b>4</b>   |
| <b>2 . SUMMARY OF TEST RESULTS</b>                           | <b>5</b>   |
| 2.1 MEASUREMENT UNCERTAINTY                                  | 6          |
| <b>3 . GENERAL INFORMATION</b>                               | <b>7</b>   |
| 3.1 GENERAL DESCRIPTION OF EUT                               | 7          |
| 3.2 TEST MODES                                               | 9          |
| 3.3 PARAMETERS OF TEST SOFTWARE                              | 11         |
| 3.4 BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED | 12         |
| 3.5 SUPPORT UNITS                                            | 12         |
| 3.6 TEST ENVIRONMENT CONDITIONS                              | 12         |
| 3.7 DUTY CYCLE                                               | 13         |
| <b>4 . AC POWER LINE CONDUCTED EMISSIONS TEST</b>            | <b>14</b>  |
| 4.1 LIMIT                                                    | 14         |
| 4.2 TEST PROCEDURE                                           | 14         |
| 4.3 MEASUREMENT INSTRUMENTS LIST                             | 14         |
| 4.4 TESTSETUP                                                | 15         |
| 4.5 EUT OPERATION CONDITIONS                                 | 15         |
| 4.6 TEST RESULTS                                             | 16         |
| <b>5 . RADIATED EMISSIONSTEST</b>                            | <b>18</b>  |
| 5.1 LIMIT                                                    | 18         |
| 5.2 TEST PROCEDURE                                           | 19         |
| 5.3 MEASUREMENT INSTRUMENTS LIST                             | 19         |
| 5.4 TESTSETUP                                                | 20         |
| 5.5 EUT OPERATION CONDITIONS                                 | 20         |
| 5.6 TEST RESULTS - 9 KHZ to 30MHZ                            | 21         |
| 5.7 TEST RESULTS - 30 MHz TO 1000 MHz                        | 22         |
| 5.8 TEST RESULTS - ABOVE1000 MHz(BAND EDGE)                  | 24         |
| 5.9 TEST RESULTS - ABOVE1000 MHz (HARMONIC)                  | 60         |
| <b>6 . BANDWIDTH TEST</b>                                    | <b>122</b> |
| 6.1 LIMIT                                                    | 122        |
| 6.2 TEST PROCEDURE AND SETTING                               | 122        |
| 6.3 MEASUREMENT INSTRUMENTS LIST                             | 122        |
| 6.4 TEST SETUP                                               | 123        |

| <b>Table of Contents</b>                   | <b>Page</b> |
|--------------------------------------------|-------------|
| <b>6.5 EUT OPERATION CONDITIONS</b>        | <b>123</b>  |
| <b>6.6 TEST RESULTS</b>                    | <b>124</b>  |
| <b>7 . MAXIMUM OUTPUT POWER TEST</b>       | <b>130</b>  |
| 7.1 LIMIT                                  | 130         |
| 7.2 TEST PROCEDURE AND SETTING             | 130         |
| 7.3 MEASUREMENT INSTRUMENTS LIST           | 130         |
| 7.4 TEST SETUP                             | 131         |
| 7.5 EUT OPERATION CONDITIONS               | 131         |
| 7.6 TEST RESULTS                           | 132         |
| <b>8 . POWER SPECTRAL DENSITY TEST</b>     | <b>143</b>  |
| 8.1 LIMIT                                  | 143         |
| 8.2 TEST PROCEDURE AND SETTING             | 143         |
| 8.3 MEASUREMENT INSTRUMENTS LIST           | 143         |
| 8.4 TEST SETUP                             | 143         |
| 8.5 EUT OPERATION CONDITIONS               | 144         |
| 8.6 TEST RESULTS                           | 145         |
| <b>9 . FREQUENCY STABILITY MEASUREMENT</b> | <b>157</b>  |
| 9.1 LIMIT                                  | 157         |
| 9.2 TEST PROCEDURE AND SETTING             | 157         |
| 9.3 MEASUREMENT INSTRUMENTS LIST           | 157         |
| 9.4 TEST SETUP                             | 157         |
| 9.5 EUT OPERATION CONDITIONS               | 157         |
| 9.6 TEST RESULTS                           | 158         |

**1. TEST REPORT DECLARE**

|                  |                                                                                                                                                                                                                                                                                                                                               |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applicant        | Hui Zhou Gaoshengda Technology Co., LTD                                                                                                                                                                                                                                                                                                       |
| Address          | NO.75 Zhongkai Development Area, Huizhou, Guangdong, China                                                                                                                                                                                                                                                                                    |
| Manufacturer     | Hui Zhou Gaoshengda Technology Co., LTD                                                                                                                                                                                                                                                                                                       |
| Address          | No.2,Jin-da Road, Huinan High-tech Industrial Park, Hui-ao Avenue, Huizhou City, Guangdong, China                                                                                                                                                                                                                                             |
| Factory          | Hui Zhou Gaoshengda Technology Co., LTD                                                                                                                                                                                                                                                                                                       |
| Address          | No.2,Jin-da Road, Huinan High-tech Industrial Park, Hui-ao Avenue, Huizhou City, Guangdong, China                                                                                                                                                                                                                                             |
| Equipment        | WIFI+BT Module                                                                                                                                                                                                                                                                                                                                |
| Model No.        | WC16R2601, WC16R2601F                                                                                                                                                                                                                                                                                                                         |
| Model Different  | The WC16R2601 and WC16R2601F only differ in power supply port.                                                                                                                                                                                                                                                                                |
| Trade Mark       | GSD                                                                                                                                                                                                                                                                                                                                           |
| Issued History 1 | The purpose of this letter is to request a Class II Permissive change for FCC ID: 2AC23-WC16, original granted on 09/14/2020.<br>There is no other hardware or electrical modification made to the applying modular transmitter itself, only opened the UNII-2A and UNII-2C band through software, this report only for UNNII-2A and UNII-2C. |
| Standard         | FCC Part15, Subpart E(15.407)<br>RSS-247 Issue 2, Feb. 2017<br>RSS-Gen Issue 5, Apr. 2018<br>ANSI C63.10-2013<br>FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01                                                                                                                                                             |

**We Declare:**

The equipment described above is tested by DongGuan ShuoXin Electronic Technology Co., Ltd(ATT). and in the configuration tested the equipment complied with the standards specified above. The test results are contained in this test report and DongGuan ShuoXin Electronic Technology Co., Ltd.(ATT) is assumed of full responsibility for the accuracy and completeness of these tests.

ATT is not responsible for the sampling stage, so the results only apply to the sample as received.

ATT's reports apply only to the specific samples tested under conditions. It is manufacture's responsibility to ensure that additional production units of this model are manufactured with the identical electrical and mechanical components. ATT shall have no liability for any declarations, inferences or generalizations drawn by the client or others from ATT issued reports.

## 2. SUMMARY OF TEST RESULTS

The EUT have been tested according to the applicable standards as referenced below:

| Standard(s) Section                 |                                                                                         | Test Item                                 | Judgment | Remark  |
|-------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------|----------|---------|
| FCC                                 | IC                                                                                      |                                           |          |         |
| 15.207<br>15.407(b)                 | RSS-GEN 8.8                                                                             | AC Power Line<br>Conducted Emissions      | PASS     | -----   |
| 15.407(b)<br>15.205(a)<br>15.209(a) | RSS-247 6.2.1.2<br>RSS-247 6.2.4.2<br>RSS-GEN 8.9<br>RSS-GEN 8.10                       | Radiated Emissions                        | PASS     | -----   |
| 15.407(a)<br>15.407(e)              | RSS-247 6.2.1.1<br>RSS-247 6.2.2.1<br>RSS-247 6.2.3.1<br>RSS-247 6.2.4.1<br>RSS-GEN 6.7 | Spectrum Bandwidth                        | PASS     | -----   |
| 15.407(a)                           | RSS-247 6.2.1.1<br>RSS-247 6.2.2.1<br>RSS-247 6.2.3.1<br>RSS-247 6.2.4.1                | Maximum Output Power                      | PASS     | -----   |
| 15.407(a)                           | RSS-247 6.2.1.1<br>RSS-247 6.2.2.1<br>RSS-247 6.2.3.1<br>RSS-247 6.2.4.1                | Power Spectral Density                    | PASS     | -----   |
| 15.407(g)                           | RSS-GEN 6.11                                                                            | Frequency Stability                       | PASS     | -----   |
| 15.203                              | RSS-247 6.4(a)                                                                          | Antenna Requirements                      | PASS     | Note(4) |
| 15.407(c)                           | RSS-GEN 8.8                                                                             | Automatically Discontinue<br>Transmission | PASS     | Note(2) |

### Note:

- (1) "N/A" denotes test is not applicable in this test report.
- (2) During no any information transmission, the EUT can automatically discontinue transmission and become standby mode for power saving. the EUT can detect the controlling signal of ACK message transmitting from remote device and verify whether it shall resend or discontinue transmission.
- (3) For UNII-1 this device was functioned as a  
☐ Access point device    ☒ Client device
- (4) The device what use a permanently attached antenna were considered sufficient to comply with the provisions of 15.203.

**2.1.MEASUREMENT UNCERTAINTY**

| Test Item                                               | Uncertainty           |
|---------------------------------------------------------|-----------------------|
| Uncertainty for Conduction emission test (9kHz-150kHz)  | 3.7 dB                |
| Uncertainty for Conduction emission test (150kHz-30MHz) | 3.3 dB                |
| Uncertainty for Radiation Emission test (30MHz-200MHz)  | 4.60 dB (Polarize: V) |
|                                                         | 4.60 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (200MHz-1GHz)   | 6.10 dB (Polarize: V) |
|                                                         | 5.08 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (1GHz-6GHz)     | 5.01 dB (Polarize: V) |
|                                                         | 5.01 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (6GHz-18GHz)    | 5.26 dB (Polarize: V) |
|                                                         | 5.26 dB (Polarize: H) |
| Uncertainty for Radiation Emission test (18GHz-40GHz)   | 5.06 dB (Polarize: V) |
|                                                         | 5.06 dB (Polarize: H) |
| Uncertainty for radio frequency                         | $\pm 0.048\text{kHz}$ |
| Uncertainty for conducted RF Power                      | $\pm 0.32\text{dB}$   |

**Note:**

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

**Test Facility:**

The Test site used by DongGuan ShuoXin Electronic Technology Co., Ltd. to collect test data is located on the Zone A, 1F, No. 6, XinGang Road YuanGang Street, XinAn District, ChangAn Town, DongGuan City, GuangDong, China

The test facility is recognized, certified, or accredited by the following organizations:

| Item                                                       | Registration No.                 | Expiration Date |
|------------------------------------------------------------|----------------------------------|-----------------|
| CNAS                                                       | L3098                            | 2024-08-27      |
| A2LA                                                       | 4893.01                          | 2022-06-30      |
| Innovation, Science and Economic Development Canada (ISED) | 11033A                           | 2022-06-30      |
| Federal Communications Commission (FCC)                    | 171688<br>Designation No.:CN1235 | 2022-06-30      |

### 3. GENERAL INFORMATION

#### 3.1. GENERAL DESCRIPTION OF EUT

|                                  |                                                                                                                                                                                                                                                                     |                                                  |
|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|
| Equipment                        | WIFI+BT Module                                                                                                                                                                                                                                                      |                                                  |
| Brand Name                       | GSD                                                                                                                                                                                                                                                                 |                                                  |
| Test Model                       | WC16R2601, WC16R2601F                                                                                                                                                                                                                                               |                                                  |
| Series Model                     | N/A                                                                                                                                                                                                                                                                 |                                                  |
| Model Difference(s)              | N/A                                                                                                                                                                                                                                                                 |                                                  |
| Hardware Version                 | V1.0                                                                                                                                                                                                                                                                |                                                  |
| Software Version                 | V1.0                                                                                                                                                                                                                                                                |                                                  |
| Power Source                     | Supplied from USB.                                                                                                                                                                                                                                                  |                                                  |
| Power Rating                     | DC 5V                                                                                                                                                                                                                                                               |                                                  |
| Operation Frequency Bands        | UNII-2A: 5250 MHz~5350 MHz<br>UNII-2C: 5470 MHz~5725 MHz                                                                                                                                                                                                            |                                                  |
| Modulation Type                  | OFDM                                                                                                                                                                                                                                                                |                                                  |
| Bit Rate of Transmitter          | Up to 866.6Mbps                                                                                                                                                                                                                                                     |                                                  |
| Operating Mode                   | IEEE 802.11a: 1TX(Ant 1 or Ant 2)<br>IEEE 802.11n (HT20): 2TX(Ant 1+Ant 2)<br>IEEE 802.11n (HT40): 2TX(Ant 1+Ant 2)<br>IEEE 802.11ac (VHT20): 2TX(Ant 1+Ant 2)<br>IEEE 802.11ac (VHT40): 2TX(Ant 1+Ant 2)<br>IEEE 802.11ac (VHT80): 2TX(Ant 1+Ant 2)                |                                                  |
| Antenna Information              | Antenna Type: PIFA                                                                                                                                                                                                                                                  | Maximum Peak Gain:<br>3dBi(Ant 1)<br>3dBi(Ant 2) |
| Maximum Output Power for UNII-2A | IEEE 802.11a: 14.92dBm (0.0310W)<br>IEEE 802.11n (HT20): 17.63dBm (0.0579W)<br>IEEE 802.11n (HT40): 17.79dBm (0.0601W)<br>IEEE 802.11ac (VHT20): 17.92dBm (0.0619W)<br>IEEE 802.11ac (VHT40): 17.63dBm (0.0579W)<br>IEEE 802.11ac (VHT80): 15.32dBm (0.0340W)       |                                                  |
| Maximum Output Power for UNII-2C | IEEE 802.11a: 14.89dBm (0.0308W)<br>IEEE 802.11n (HT20): 17.71dBm (0.0590 W)<br>IEEE 802.11n (HT40): 17.71dBm (0.0590 W)<br>IEEE 802.11ac (VHT20): 17.75 dBm (0.0596 W)<br>IEEE 802.11ac (VHT40): 17.91dBm (0.0618 W)<br>IEEE 802.11ac (VHT80): 15.90dBm (0.0389 W) |                                                  |

**Note:**

1. For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.
2. Channel List:

| IEEE 802.11a<br>IEEE 802.11n (HT20)<br>IEEE 802.11ac (VHT20) |                 | IEEE 802.11n (HT40)<br>IEEE 802.11ac (VHT40) |                 | IEEE 802.11ac (VHT80) |                 |
|--------------------------------------------------------------|-----------------|----------------------------------------------|-----------------|-----------------------|-----------------|
| UNII-2A                                                      |                 | UNII-2A                                      |                 | UNII-2A               |                 |
| Channel                                                      | Frequency (MHz) | Channel                                      | Frequency (MHz) | Channel               | Frequency (MHz) |
| 52                                                           | 5260            | 54                                           | 5270            | 58                    | 5290            |
| 56                                                           | 5280            | 62                                           | 5310            |                       |                 |
| 60                                                           | 5300            |                                              |                 |                       |                 |
| 64                                                           | 5320            |                                              |                 |                       |                 |

| IEEE 802.11a<br>IEEE 802.11n (HT20)<br>IEEE 802.11ac (VHT20) |                 | IEEE 802.11n (HT40)<br>IEEE 802.11ac (VHT40) |                 | IEEE 802.11ac (VHT80) |                 |
|--------------------------------------------------------------|-----------------|----------------------------------------------|-----------------|-----------------------|-----------------|
| UNII-2C                                                      |                 | UNII-2C                                      |                 | UNII-2C               |                 |
| Channel                                                      | Frequency (MHz) | Channel                                      | Frequency (MHz) | Channel               | Frequency (MHz) |
| 100                                                          | 5500            | 102                                          | 5510            | 106                   | 5530            |
| 104                                                          | 5520            | 110                                          | 5550            | 122                   | 5610            |
| 108                                                          | 5540            | 118                                          | 5590            |                       |                 |
| 112                                                          | 5560            | 126                                          | 5630            |                       |                 |
| 116                                                          | 5580            | 134                                          | 5670            |                       |                 |
| 120                                                          | 5600            |                                              |                 |                       |                 |
| 124                                                          | 5620            |                                              |                 |                       |                 |
| 128                                                          | 5640            |                                              |                 |                       |                 |
| 132                                                          | 5660            |                                              |                 |                       |                 |
| 136                                                          | 5680            |                                              |                 |                       |                 |
| 140                                                          | 5700            |                                              |                 |                       |                 |

3. It is not open 5600MHz-5650MHz for Canada. And all test data in the 5600MHz-5650MHz range is FCC only.

### 3.2. TEST MODES

The test system was pre-tested based on the consideration of all possible combinations of EUT operation mode.

| Pretest Mode | Description                                        |
|--------------|----------------------------------------------------|
| Mode 1       | TX A Mode / CH52, CH60, CH64 (UNII-2A)             |
| Mode 2       | TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)      |
| Mode 3       | TX N (HT40) Mode / CH54, CH62 (UNII-2A)            |
| Mode 4       | TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)    |
| Mode 5       | TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)          |
| Mode 6       | TX AC (VHT80) Mode / CH58 (UNII-2A)                |
| Mode 7       | TX A Mode / CH100, CH120, CH140 (UNII-2C)          |
| Mode 8       | TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)   |
| Mode 9       | TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)      |
| Mode 10      | TX AC (VHT20) Mode / CH100, CH120, CH140 (UNII-2C) |
| Mode 11      | TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)    |
| Mode 12      | TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)        |

Following mode(s) as (were) found to be the worst case(s) and selected for the final test.

| AC power line conducted emissions test |                            |
|----------------------------------------|----------------------------|
| Final Test Mode                        | Description                |
| Mode 1                                 | TX A Mode / CH52 (UNII-2A) |

| Radiated emissions test - Below 1GHz |                            |
|--------------------------------------|----------------------------|
| Final Test Mode                      | Description                |
| Mode 1                               | TX A Mode / CH52 (UNII-2A) |

| Radiated emissions test - Above 1GHz |                                                    |
|--------------------------------------|----------------------------------------------------|
| Final Test Mode                      | Description                                        |
| Mode 1                               | TX A Mode / CH52, CH60, CH64 (UNII-2A)             |
| Mode 2                               | TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)      |
| Mode 3                               | TX N (HT40) Mode / CH54, CH62 (UNII-2A)            |
| Mode 4                               | TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)    |
| Mode 5                               | TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)          |
| Mode 6                               | TX AC (VHT80) Mode / CH58 (UNII-2A)                |
| Mode 7                               | TX A Mode / CH100, CH120, CH140 (UNII-2C)          |
| Mode 8                               | TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)   |
| Mode 9                               | TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)      |
| Mode 10                              | TX AC (VHT20) Mode / CH100, CH120, CH140 (UNII-2C) |
| Mode 11                              | TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)    |
| Mode 12                              | TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)        |

| Conducted test  |                                                    |
|-----------------|----------------------------------------------------|
| Final Test Mode | Description                                        |
| Mode 1          | TX A Mode / CH52, CH60, CH64 (UNII-2A)             |
| Mode 2          | TX N (HT20) Mode / CH52, CH60, CH64 (UNII-2A)      |
| Mode 3          | TX N (HT40) Mode / CH54, CH62 (UNII-2A)            |
| Mode 4          | TX AC (VHT20) Mode / CH52, CH60, CH64 (UNII-2A)    |
| Mode 5          | TX AC (VHT40) Mode / CH54, CH62 (UNII-2A)          |
| Mode 6          | TX AC (VHT80) Mode / CH58 (UNII-2A)                |
| Mode 7          | TX A Mode / CH100, CH120, CH140 (UNII-2C)          |
| Mode 8          | TX N (HT20) Mode / CH100, CH120, CH140 (UNII-2C)   |
| Mode 9          | TX N (HT40) Mode/CH102, CH110, CH134(UNII-2C)      |
| Mode 10         | TX AC (VHT20) Mode / CH100, CH120, CH140 (UNII-2C) |
| Mode 11         | TX AC (VHT40) Mode/CH102, CH110, CH134(UNII-2C)    |
| Mode 12         | TX AC (VHT80) Mode / CH106, CH122 (UNII-2C)        |

Note:

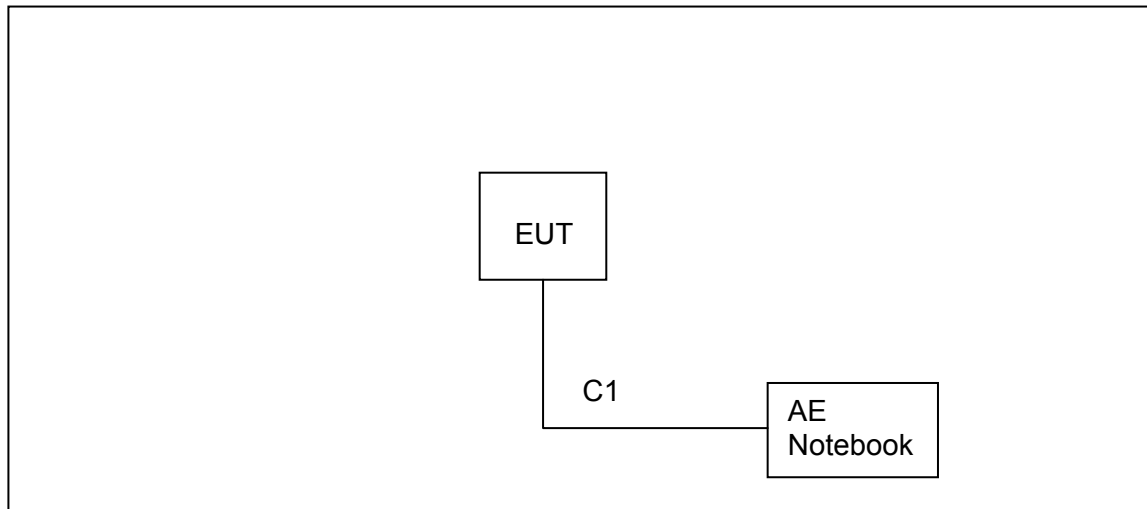
- (1) For radiated emission below 1 GHz and AC power line conducted emissions test, the IEEE 802.11a channel 52 is found to be the worst case and recorded.

### 3.3. PARAMETERS OF TEST SOFTWARE

| UNII-2A               |                       |      |      |
|-----------------------|-----------------------|------|------|
| Test Software         | MP_Kit_RTL11ac_8822CU |      |      |
| Test Frequency (MHz)  | 5260                  | 5300 | 5320 |
| IEEE 802.11a          | 80                    | 80   | 80   |
| IEEE 802.11n (HT20)   | 80                    | 75   | 80   |
| IEEE 802.11ac (VHT20) | 80                    | 75   | 75   |
| Test Frequency (MHz)  | 5270                  | 5310 |      |
| IEEE 802.11n (HT40)   | 80                    | 80   |      |
| IEEE 802.11ac (VHT40) | 80                    | 75   |      |
| Test Frequency (MHz)  | 5290                  |      |      |
| IEEE 802.11ac (VHT80) | 70                    |      |      |

| UNII-2C               |                       |      |      |
|-----------------------|-----------------------|------|------|
| Test Software         | MP_Kit_RTL11ac_8822CU |      |      |
| Test Frequency (MHz)  | 5500                  | 5600 | 5700 |
| IEEE 802.11a          | 70                    | 70   | 70   |
| IEEE 802.11n (HT20)   | 67                    | 70   | 70   |
| IEEE 802.11ac (VHT20) | 70                    | 70   | 70   |
| Test Frequency (MHz)  | 5510                  | 5550 | 5670 |
| IEEE 802.11n (HT40)   | 70                    | 75   | 70   |
| IEEE 802.11ac (VHT40) | 70                    | 75   | 70   |
| Test Frequency (MHz)  | 5530                  | 5610 |      |
| IEEE 802.11ac (VHT80) | 65                    | 65   |      |

### 3.4. BLOCK DIAGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



### 3.5. SUPPORT UNITS

| Item | Equipment | Brand | Model No. | Series No.  |
|------|-----------|-------|-----------|-------------|
| AE   | Notebook  | ACER  | MS2367    | 32807810766 |

| Item | Cable Type | Shielded Type | Ferrite Core | Length |
|------|------------|---------------|--------------|--------|
| C1   | DC Cable   | NO            | NO           | 1m     |

### 3.6. TEST ENVIRONMENT CONDITIONS

| Test Item                         | Temperature        | Humidity | Test Voltage    |
|-----------------------------------|--------------------|----------|-----------------|
| AC Power Line Conducted Emissions | 25°C               | 53%      | DC 3.3V         |
| Radiated Emissions-9K-30MHz       | 25°C               | 60%      | DC 3.3V         |
| Radiated Emissions-30 MHz to 1GHz | 24°C               | 68%      | DC 3.3V         |
| Radiated Emissions-Above 1000 MHz | 24°C               | 68%      | DC 3.3V         |
| Spectrum Bandwidth                | 25.3°C             | 44.8%    | DC 3.3V         |
| Maximum Output Power              | 25.3°C             | 44.8%    | DC 3.3V         |
| Power Spectral Density            | 25.3°C             | 44.8%    | DC 3.3V         |
| Frequency Stability               | Normal,<br>Extreme | 44.8%    | Normal, Extreme |

### 3.7. DUTY CYCLE

All tests were performed under the condition of 100% Duty Cycle

**NOTE:**

For IEEE 802.11a, IEEE 802.11n (HT20) and IEEE 802.11ac (VHT20):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 1 kHz (Duty cycle < 98%).

For IEEE 802.11n (HT40) and IEEE 802.11ac (VHT40):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 2 kHz (Duty cycle < 98%).

For IEEE 802.11ac (VHT80):

For radiated emissions frequency above 1 GHz, the resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 kHz (Duty cycle < 98%).

## 4. AC POWER LINE CONDUCTED EMISSIONS TEST

### 4.1. LIMIT

| Frequency<br>(MHz) | Limit (dBμV) |           |
|--------------------|--------------|-----------|
|                    | Quasi-peak   | Average   |
| 0.15 - 0.50        | 66 to 56*    | 56 to 46* |
| 0.50 - 5.0         | 56           | 46        |
| 5.0 - 30.0         | 60           | 50        |

NOTE:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " \* " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

| Receiver Parameter | Setting  |
|--------------------|----------|
| Attenuation        | 10 dB    |
| Start Frequency    | 0.15 MHz |
| Stop Frequency     | 30 MHz   |
| IF Bandwidth       | 9 KHz    |

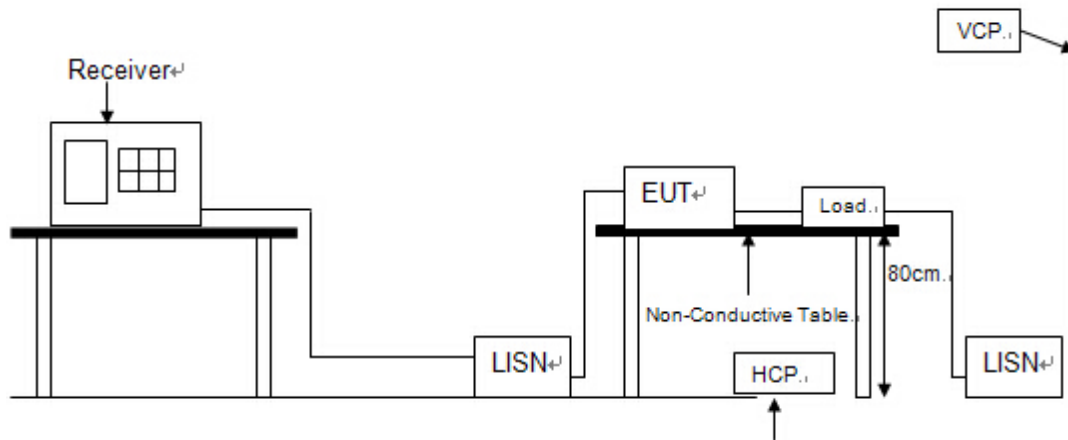
### 4.2. TEST PROCEDURE

- a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.

### 4.3. MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment    | Manufacturer          | Type No.                | Serial No.      | Calibrated until |
|------|----------------------|-----------------------|-------------------------|-----------------|------------------|
| 1    | Pulse Limiter        | MTS-systemtec<br>hnik | MTS-IMP-136             | 261115-010-0024 | 12/11/2021       |
| 2    | EMI Test Receiver    | R&S                   | ESCI                    | 101308          | 12/12/2021       |
| 3    | LISN                 | AFJ                   | LS16                    | 16011103219     | 06/09/2021       |
| 4    | LISN                 | Schwarzbeck           | NSLK 8127               | 8127-432        | 12/11/2021       |
| 5    | Measurement Software | Farad                 | EZ-EMC<br>(Ver.ATT-03A) | N/A             | N/A              |

## 4.4. TESTSETUP



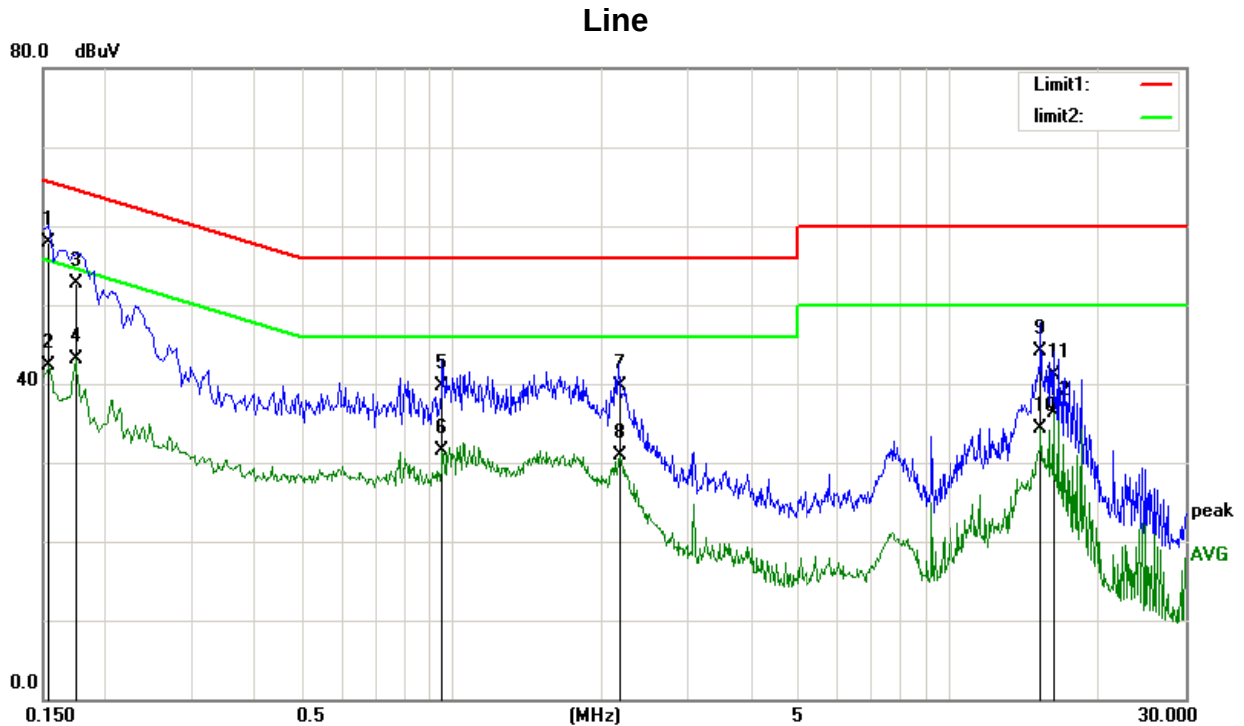
## 4.5. EUT OPERATION CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

The EUT was programmed to be in continuously transmitting/TX mode.

## 4.6. TEST RESULTS

Test Mode: TX A Mode / CH52 (UNII 2A)



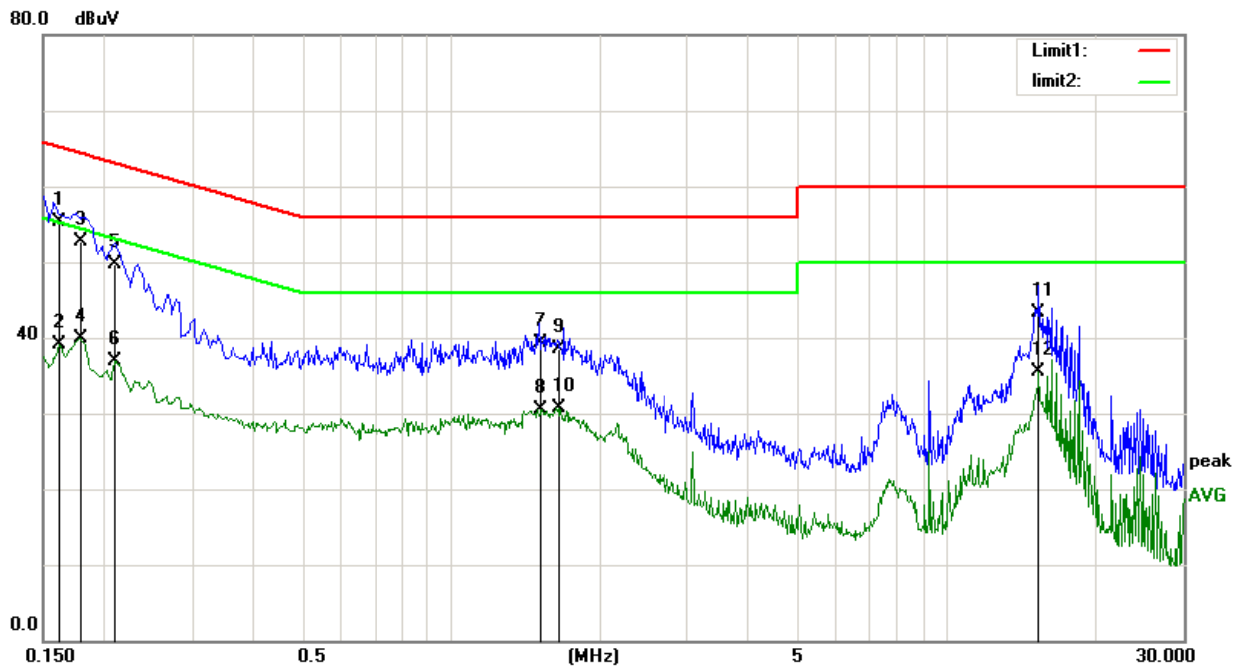
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.1539             | 46.14             | 11.77                 | 57.91            | 65.78           | -7.87          | QP     |
| 2   | 0.1539             | 30.52             | 11.77                 | 42.29            | 55.78           | -13.49         | AVG    |
| 3   | 0.1740             | 41.09             | 11.59                 | 52.68            | 64.76           | -12.08         | QP     |
| 4   | 0.1740             | 31.50             | 11.59                 | 43.09            | 54.76           | -11.67         | AVG    |
| 5   | 0.9580             | 29.54             | 10.09                 | 39.63            | 56.00           | -16.37         | QP     |
| 6   | 0.9580             | 21.48             | 10.09                 | 31.57            | 46.00           | -14.43         | AVG    |
| 7   | 2.1780             | 29.54             | 10.22                 | 39.76            | 56.00           | -16.24         | QP     |
| 8   | 2.1780             | 20.59             | 10.22                 | 30.81            | 46.00           | -15.19         | AVG    |
| 9   | 15.3419            | 33.08             | 11.00                 | 44.08            | 60.00           | -15.92         | QP     |
| 10  | 15.3419            | 23.28             | 11.00                 | 34.28            | 50.00           | -15.72         | AVG    |
| 11  | 16.2658            | 30.14             | 11.04                 | 41.18            | 60.00           | -18.82         | QP     |
| 12  | 16.2658            | 25.25             | 11.04                 | 36.29            | 50.00           | -13.71         | AVG    |

### REMARKS:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

Test Mode: TX A Mode / CH52 (UNII 2A)

## Neutral



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>Factor(dB) | Result<br>(dBuV) | Limit<br>(dBuV) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1   | 0.1620             | 43.65             | 11.70                 | 55.35            | 65.36           | -10.01         | QP     |
| 2   | 0.1620             | 27.41             | 11.70                 | 39.11            | 55.36           | -16.25         | AVG    |
| 3   | 0.1780             | 41.08             | 11.55                 | 52.63            | 64.57           | -11.94         | QP     |
| 4   | 0.1780             | 28.43             | 11.55                 | 39.98            | 54.57           | -14.59         | AVG    |
| 5   | 0.2100             | 38.44             | 11.26                 | 49.70            | 63.20           | -13.50         | QP     |
| 6   | 0.2100             | 25.73             | 11.26                 | 36.99            | 53.20           | -16.21         | AVG    |
| 7   | 1.5220             | 29.18             | 10.15                 | 39.33            | 56.00           | -16.67         | QP     |
| 8   | 1.5220             | 20.43             | 10.15                 | 30.58            | 46.00           | -15.42         | AVG    |
| 9   | 1.6460             | 28.27             | 10.17                 | 38.44            | 56.00           | -17.56         | QP     |
| 10  | 1.6460             | 20.47             | 10.17                 | 30.64            | 46.00           | -15.36         | AVG    |
| 11  | 15.3499            | 32.31             | 11.00                 | 43.31            | 60.00           | -16.69         | QP     |
| 12  | 15.3499            | 24.54             | 11.00                 | 35.54            | 50.00           | -14.46         | AVG    |

### Remarks:

- (1) Measurement Value = Reading Level + Correct Factor.
- (2) Margin Level = Measurement Value - Limit Value.

## 5.. RADIATED EMISSIONSTEST

### 5.1. LIMIT

In case the emission fall within the restricted band specified on 15.205(a)&RSS-Gen 8.10, then the 15.209(a)&RSS-Gen 8.9 limit in the table below has to be followed.

#### LIMITS OF RADIATED EMISSIONS MEASUREMENT (9 kHz to 1000MHz)

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

#### LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| Frequency (MHz) | EIRP Limit (dBm/MHz) | Equivalent Field Strength at 3m (dBμV/m) |
|-----------------|----------------------|------------------------------------------|
| 5150-5250       | -27                  | 68.3                                     |
| 5250-5350       | -27                  | 68.3                                     |
| 5470-5725       | -27                  | 68.3                                     |
| 5725-5850       | -27 Note(2)          | 68.3                                     |
|                 | 10 Note(2)           | 105.3                                    |
|                 | 15.6 Note(2)         | 110.9                                    |
|                 | 27 Note(2)           | 122.3                                    |

Note:

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

strength:  $E = \frac{1000000\sqrt{30P}}{3}$  μV/m, where P is the eirp (Watts)

(2) According to 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 25MHz 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 27dBm/MHz at the band edge.

(3) Radiation larger than 26.5GHz is background, so the following data only measures the maximum 26.5GHz

(4) Duty Cycle compensation less than 98% has been compensated in the test software prior to the implementation of the test

## 5.2. TEST PROCEDURE

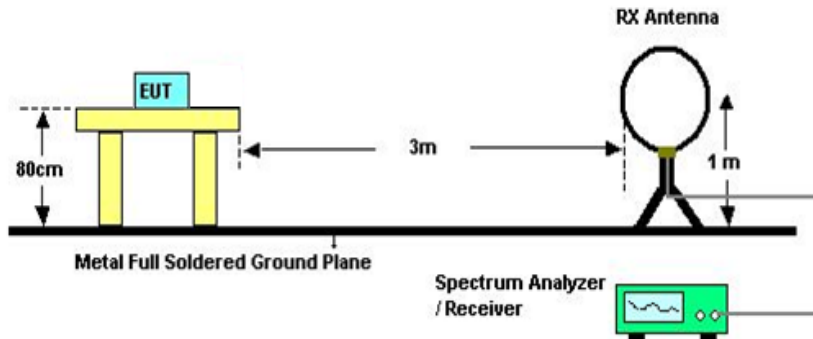
- a. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 0.8 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(below 1GHz)
- b. The measuring distance of 3 m shall be used for measurements. The EUT was placed on the top of a rotating table 1.5 meter above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.(above 1GHz)
- c. The height of the equipment or of the substitution antenna shall be 0.8m or 1.5m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights find the maximum reading (used Bore sight function).
- e. The receiver system was set to peak and average detect function and specified bandwidth with maximum hold mode when the test frequency is above 1GHz.
- f. The initial step in collecting radiated emission data is a receiver peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- g. All readings are Peak unless otherwise stated QP in column of Note. Peak denotes that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform. (below 1GHz)
- h. All readings are Peak Mode value unless otherwise stated AVG in column of Note. If the Peak Mode Measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak & AVG Limits and then only Peak Mode was measured, but AVG Mode didn't perform. (above 1GHz)
- i. The test result is calculated as the following:
  - (1) Result = Reading + Correct Factor
  - (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
  - (3) Margin = Result - Limit

## 5.3. MEASUREMENT INSTRUMENTS LIST

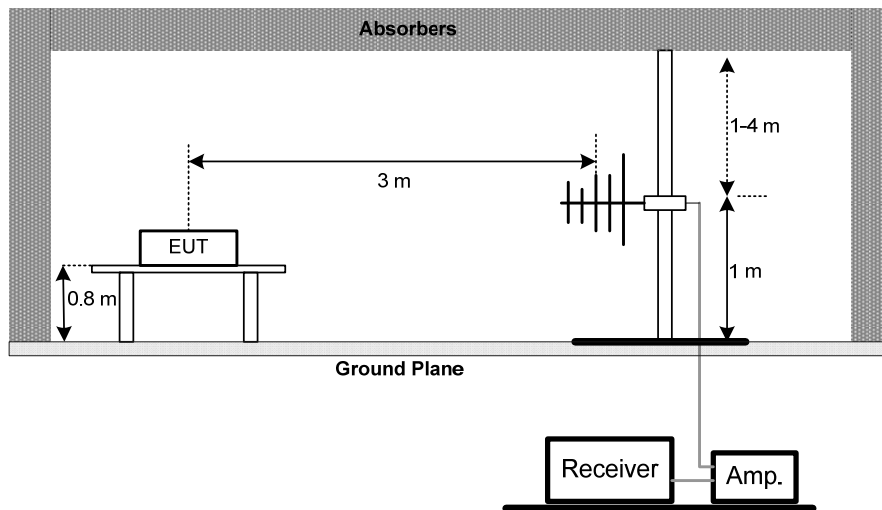
| Item | Equipment              | Manufacturer | Model No.            | Serial No.   | Calibrated until |
|------|------------------------|--------------|----------------------|--------------|------------------|
| 1    | EMI Test Receiver      | R&S          | ESCI                 | 101307       | 12/12/2021       |
| 2    | Spectrum Analyzer      | Agilent      | E4407B               | US40240708   | 11/17/2021       |
| 3    | Spectrum Analyzer      | R&S          | FSP                  | 1164.4391.38 | 06/01/2021       |
| 4    | Loop antenna           | SCHWARZBECK  | FMZB1519             | 1519-062     | 12/14/2021       |
| 5    | Broadband antenna      | SCHWARZBECK  | VULB9168             | VULB9168-192 | 08/06/2021       |
| 6    | HORN ANTENNA           | SCHWARZBECK  | BBHA9120D            | 9120D 1065   | 04/20/2022       |
| 7    | DRG Horn Antenna       | A.H. Systems | SAS-574              | 588          | 06/01/2021       |
| 8    | Preamplifier Amplifier | HP           | 8447F                | 3113A05680   | 12/11/2021       |
| 9    | Preamplifier Amplifier | Aeroflex     | 33711-392-77150-11   | 97           | 06/01/2021       |
| 10   | PRE-AMPLIFIER          | CY           | EMC011830            | 980136       | 12/11/2021       |
| 11   | RF Cable               | R&S          | Test Cable 4         | 4            | 12/11/2021       |
| 12   | RF Cable               | R&S          | Test Cable 5         | 5            | 12/11/2021       |
| 13   | RF Cable               | R&S          | Test Cable 9         | 9            | 04/20/2022       |
| 14   | RF Cable               | R&S          | Test Cable 10        | 10           | 12/11/2021       |
| 15   | Measurement Software   | Farad        | EZ-EMC (Ver.ATT-03A) | N/A          | N/A              |

## 5.4. TESTSETUP

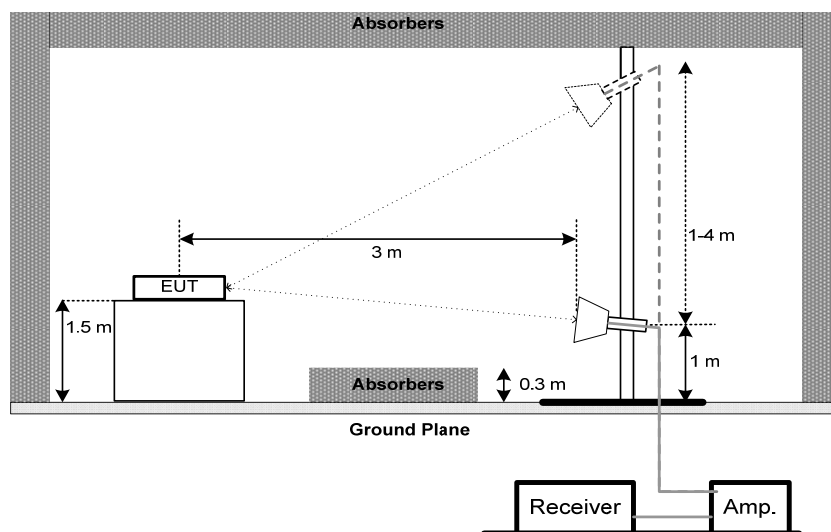
### 9 kHz to 30 MHz



### 30 MHz to 1 GHz



### Above 1 GHz



## 5.5. EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

**5.6. TEST RESULTS - 9 KHZ to 30MHZ**

|            |                            |
|------------|----------------------------|
| Test Mode: | TX A Mode / CH52 (UNII 2A) |
|------------|----------------------------|

| Freq. | Reading  | Limit    | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB)   | P/F   |
| --    | --       | --       | --     | P     |
| --    | --       | --       | --     | P     |

**Note:**

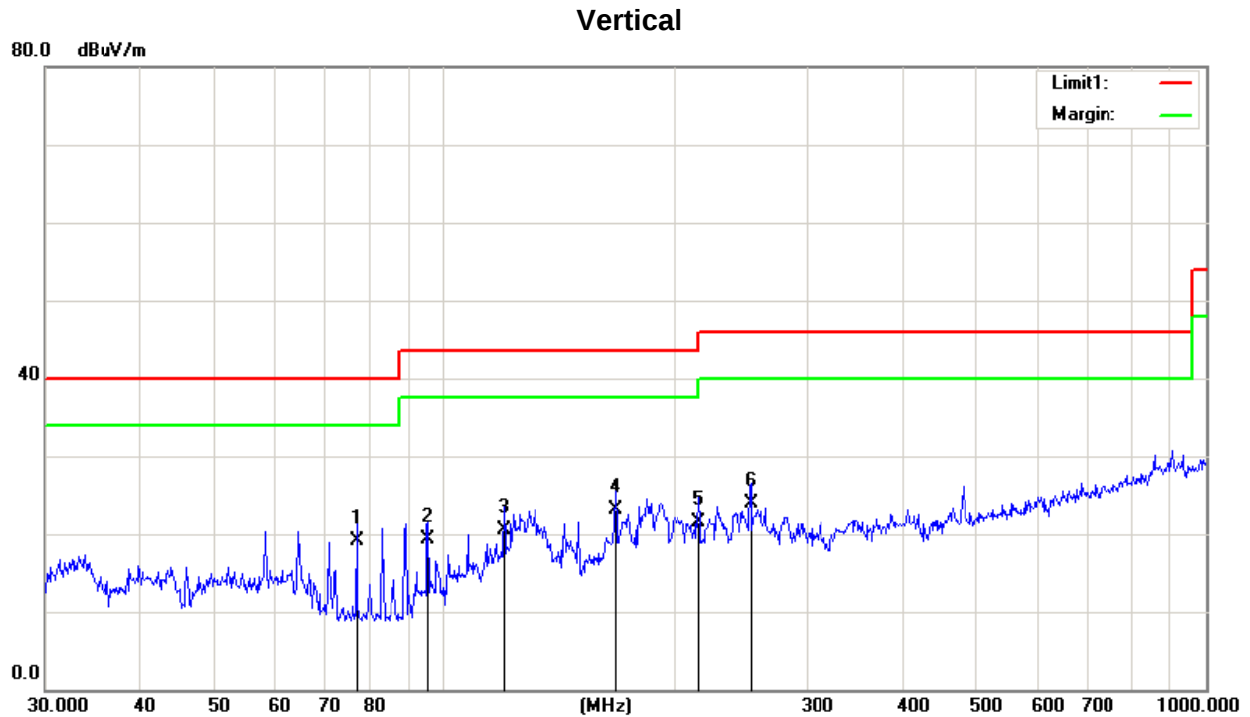
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =  $20 \log (\text{specific distance/test distance})$ (dB);

Limit line = specific limits(dBuv) + distance extrapolation factor

## 5.7. TEST RESULTS - 30 MHz TO 1000 MHz

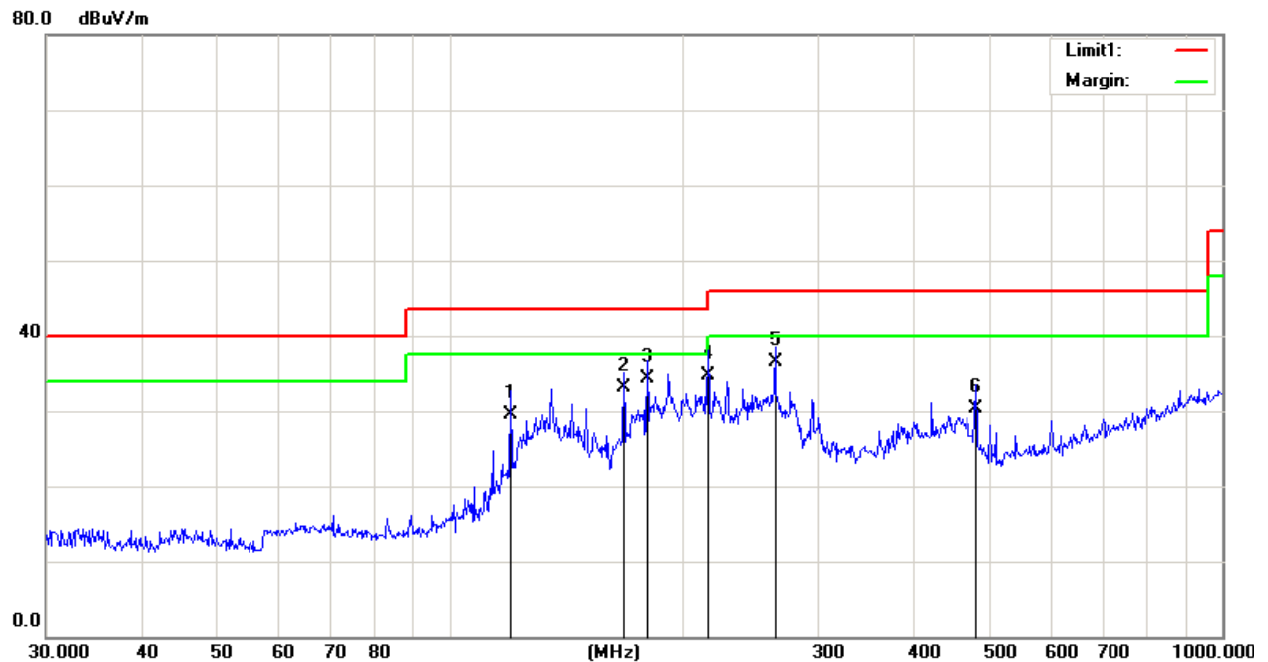
|            |                            |
|------------|----------------------------|
| Test Mode: | TX A Mode / CH52 (UNII 2A) |
|------------|----------------------------|



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 76.7806            | 34.15               | -14.99                  | 19.16              | 40.00             | -20.84         | QP     |
| 2   | 95.4270            | 34.09               | -14.77                  | 19.32              | 43.50             | -24.18         | QP     |
| 3   | 119.8555           | 33.44               | -12.89                  | 20.55              | 43.50             | -22.95         | QP     |
| 4   | 167.8240           | 33.58               | -10.48                  | 23.10              | 43.50             | -20.40         | QP     |
| 5   | 216.0240           | 32.16               | -10.58                  | 21.58              | 46.00             | -24.42         | QP     |
| 6   | 252.9482           | 32.34               | -8.44                   | 23.90              | 46.00             | -22.10         | QP     |

Test Mode: TX A Mode / CH52 (UNII 2A)

## Horizontal

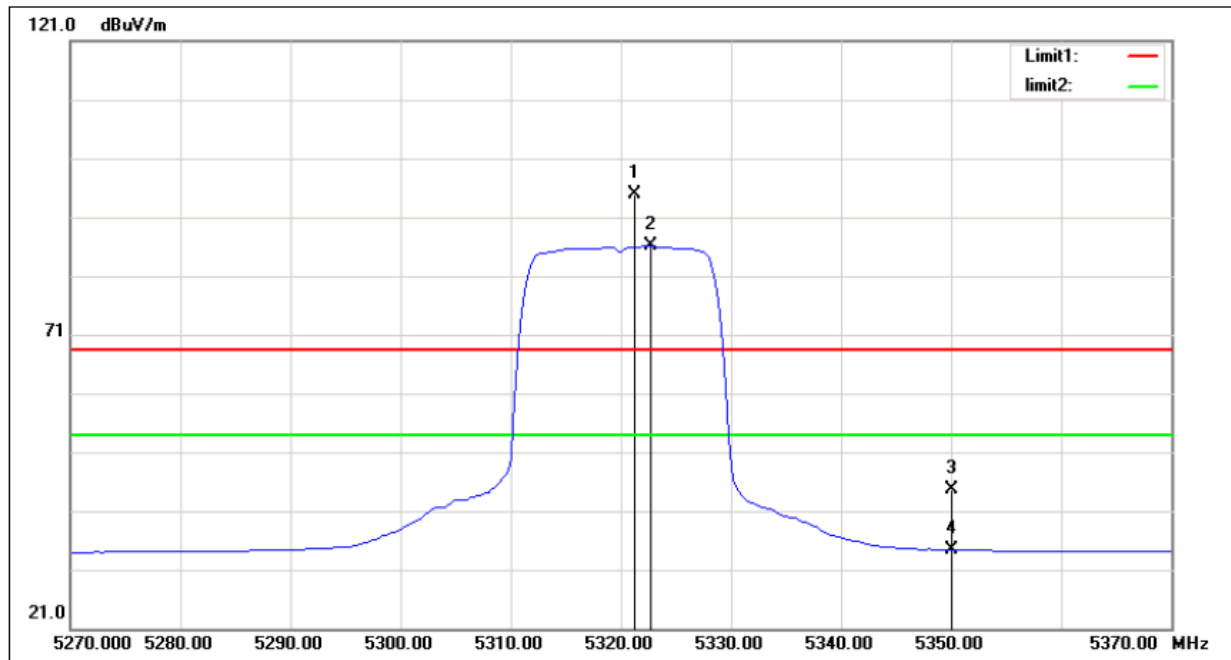


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 119.8555           | 43.33               | -13.89                  | 29.44              | 43.50             | -14.06         | QP     |
| 2   | 167.8240           | 44.02               | -10.91                  | 33.11              | 43.50             | -10.39         | QP     |
| 3   | 180.0165           | 43.94               | -9.72                   | 34.22              | 43.50             | -9.28          | QP     |
| 4   | 216.0240           | 44.15               | -9.38                   | 34.77              | 46.00             | -11.23         | QP     |
| 5   | 263.8190           | 41.32               | -4.76                   | 36.56              | 46.00             | -9.44          | QP     |
| 6   | 480.5276           | 35.71               | -5.46                   | 30.25              | 46.00             | -15.75         | QP     |

## 5.8. TEST RESULTS - ABOVE1000 MHz(BAND EDGE)

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5320 MHz |

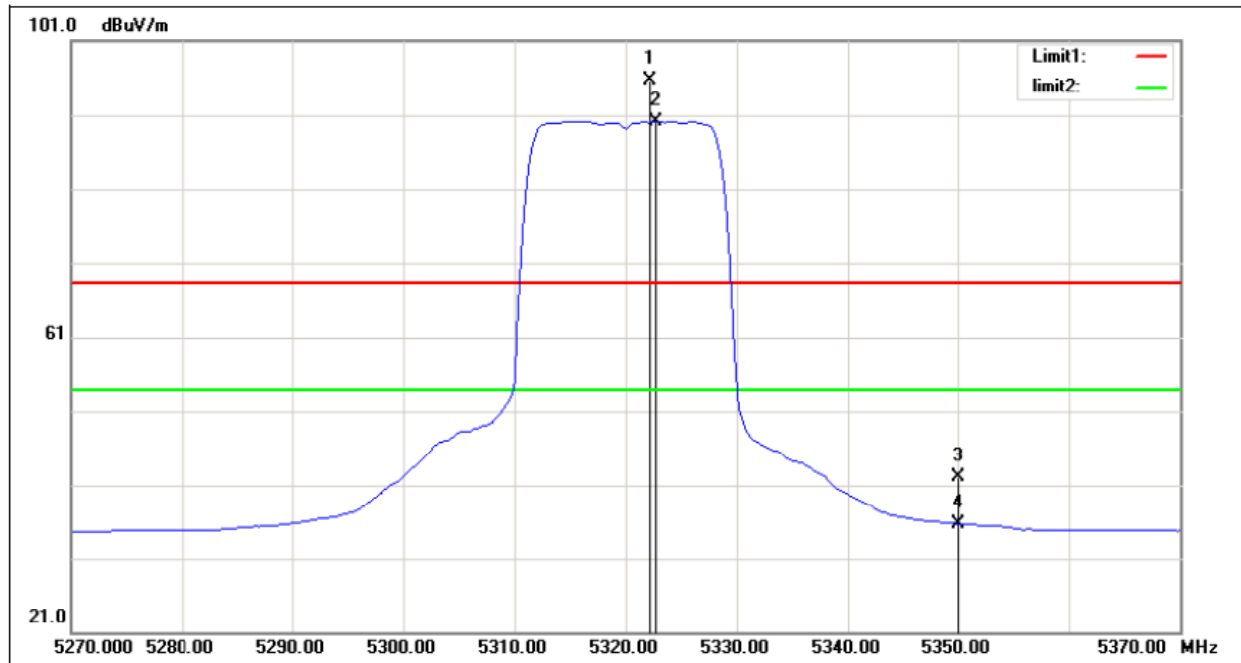
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5321.250           | 59.34               | 35.42                   | 94.76              | /                 | /              | peak   |
| 2   | 5322.750           | 50.73               | 35.42                   | 86.15              | /                 | /              | AVG    |
| 3   | 5350.000           | 9.02                | 35.50                   | 44.52              | 68.30             | -23.78         | peak   |
| 4   | 5350.000           | -1.09               | 35.50                   | 34.41              | 54.00             | -19.59         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5320 MHz |

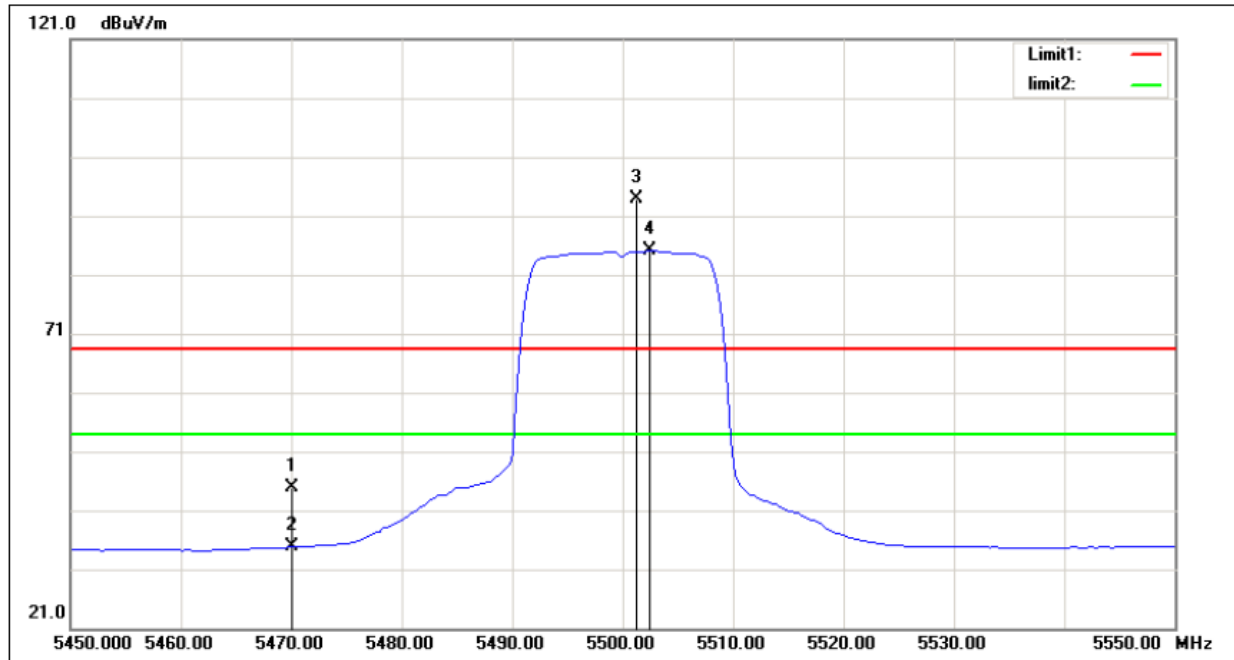
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5322.250           | 60.24               | 35.42                   | /                  | /                 | /              | peak   |
| 2   | 5322.750           | 54.71               | 35.42                   | /                  | /                 | /              | AVG    |
| 3   | 5350.000           | 6.58                | 35.50                   | 42.08              | 68.30             | -26.22         | peak   |
| 4   | 5350.000           | 0.26                | 35.50                   | 35.76              | 54.00             | -18.24         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5500 MHz |

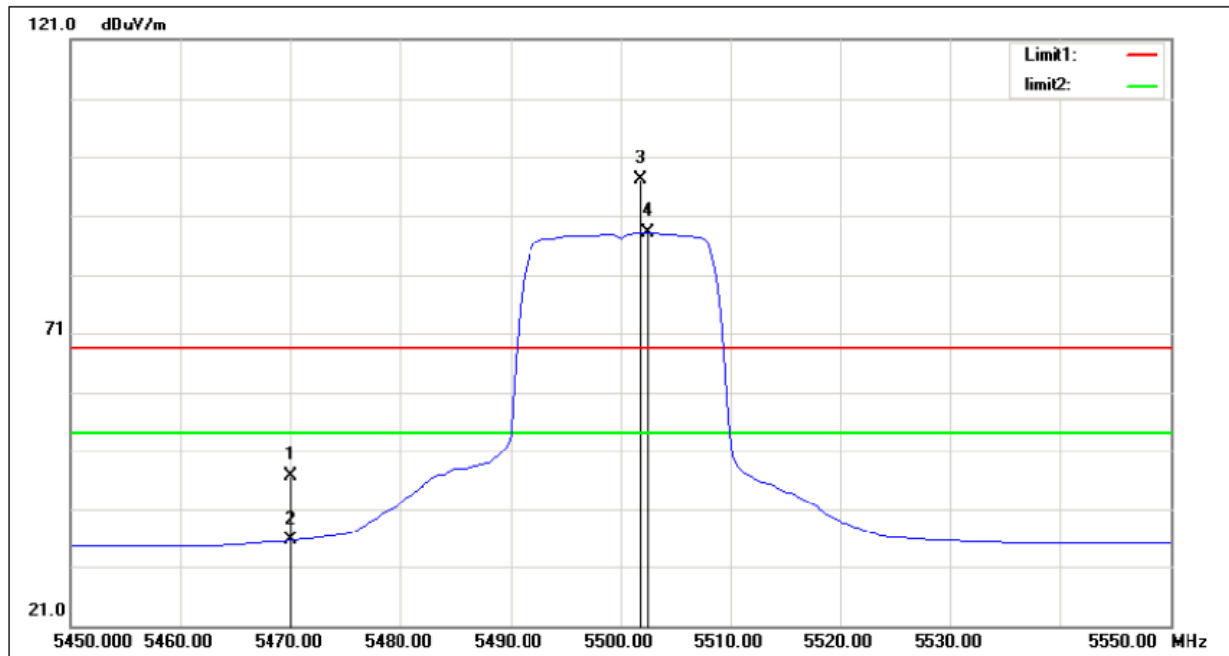
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 9.09                | 35.84                   | 44.93              | 68.30             | -23.37         | peak   |
| 2   | 5470.000           | -1.05               | 35.84                   | 34.79              | 54.00             | -19.21         | AVG    |
| 3   | 5501.250           | 57.89               | 35.93                   | 93.82              | /                 | /              | peak   |
| 4   | 5502.500           | 49.16               | 35.93                   | 85.09              | /                 | /              | AVG    |

|                 |                             |
|-----------------|-----------------------------|
| Orthogonal Axis | X                           |
| Test Mode       | UNII-2C _TX A Mode 5500 MHz |

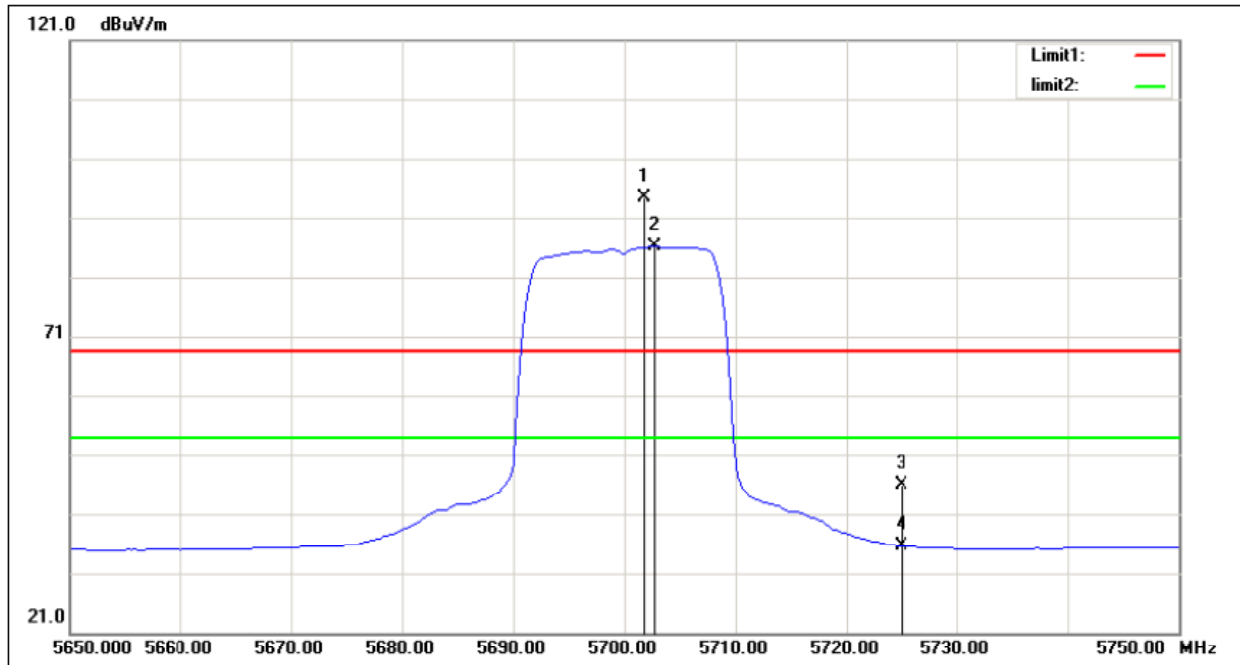
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 10.84               | 35.84                   | 46.68              | 68.30             | -21.62         | peak   |
| 2   | 5470.000           | -0.22               | 35.84                   | 35.62              | 54.00             | -18.38         | AVG    |
| 3   | 5501.750           | 61.08               | 35.93                   | 97.01              | /                 | /              | peak   |
| 4   | 5502.500           | 52.27               | 35.93                   | 88.20              | /                 | /              | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5700 MHz |

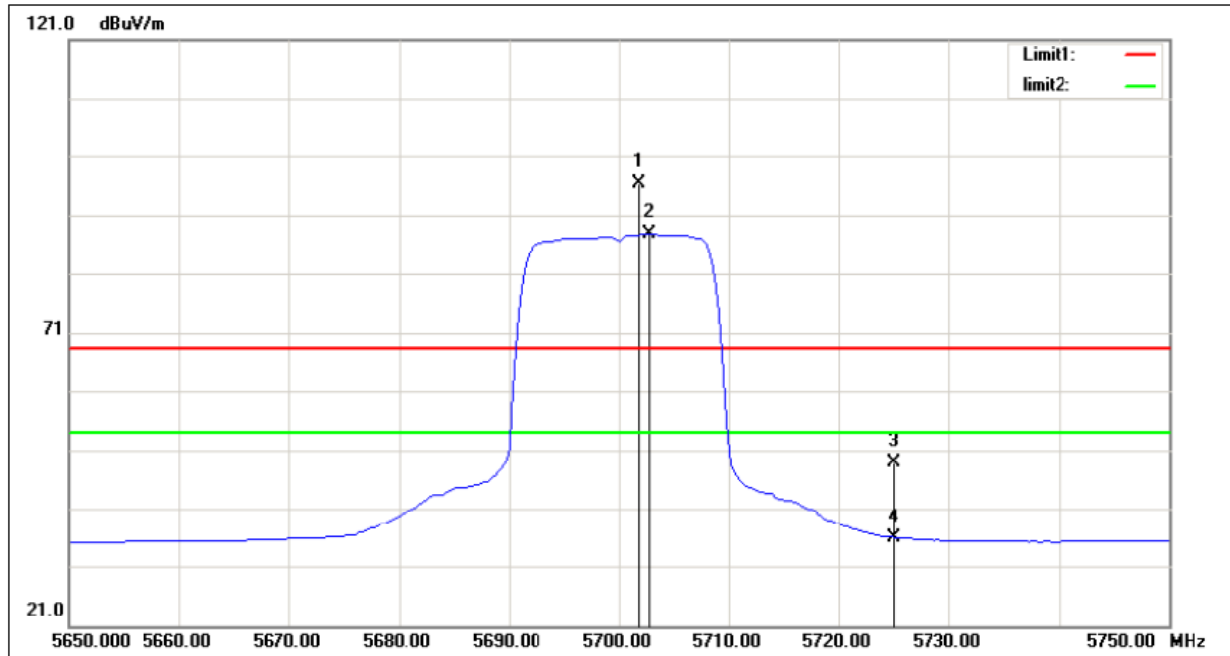
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5701.750           | 58.59               | 35.85                   | 94.44              | /                 | /              | peak   |
| 2   | 5702.750           | 50.27               | 35.85                   | 86.12              | /                 | /              | AVG    |
| 3   | 5725.000           | 10.08               | 35.84                   | 45.92              | 68.30             | -22.38         | peak   |
| 4   | 5725.000           | -0.10               | 35.84                   | 35.74              | 54.00             | -18.26         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5700 MHz |

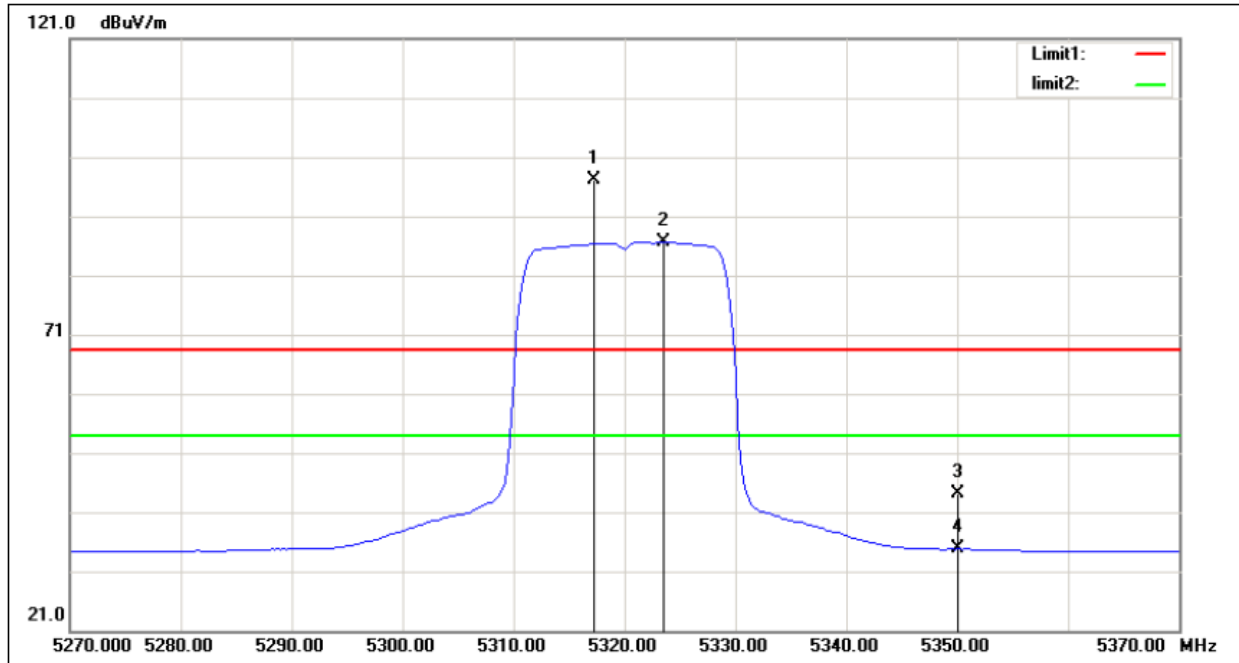
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5701.750           | 60.48               | 35.85                   | 96.33              | /                 | /              | peak   |
| 2   | 5702.750           | 52.07               | 35.85                   | 87.92              | /                 | /              | AVG    |
| 3   | 5725.000           | 13.15               | 35.84                   | 48.99              | 68.30             | -19.31         | peak   |
| 4   | 5725.000           | 0.14                | 35.84                   | 35.98              | 54.00             | -18.02         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5320 MHz |

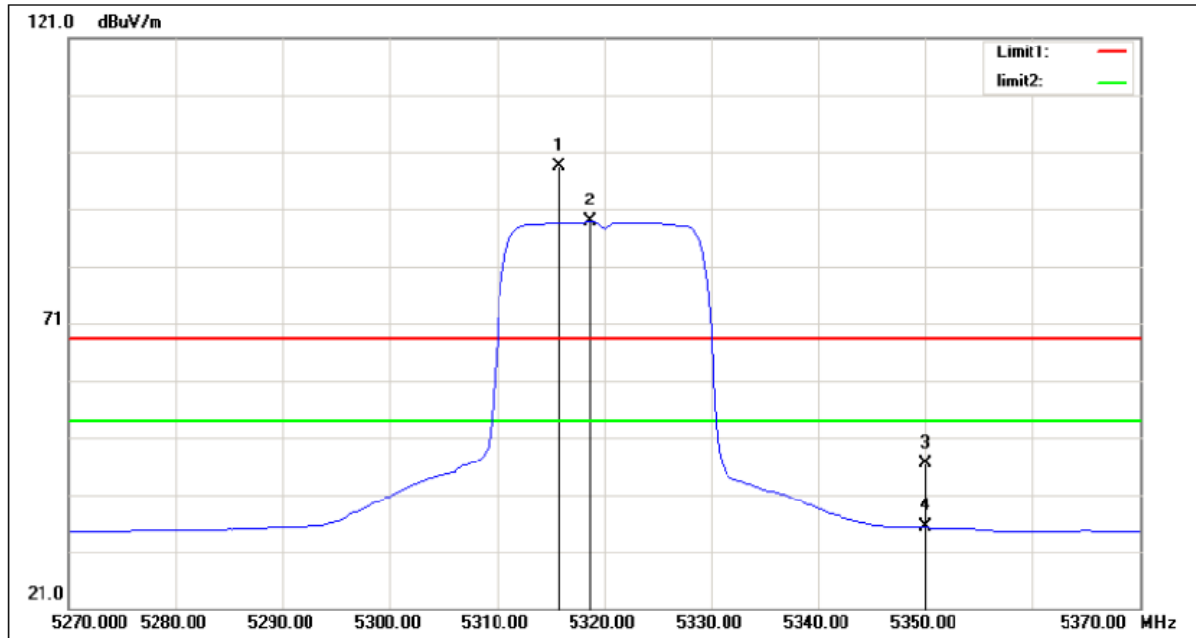
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5317.250           | 61.65               | 35.41                   | 97.06              | /                 | /              | peak   |
| 2   | 5323.500           | 51.18               | 35.43                   | 86.61              | /                 | /              | AVG    |
| 3   | 5350.000           | 8.65                | 35.50                   | 44.15              | 68.30             | -24.15         | peak   |
| 4   | 5350.000           | -0.69               | 35.50                   | 34.81              | 54.00             | -19.19         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5320 MHz |

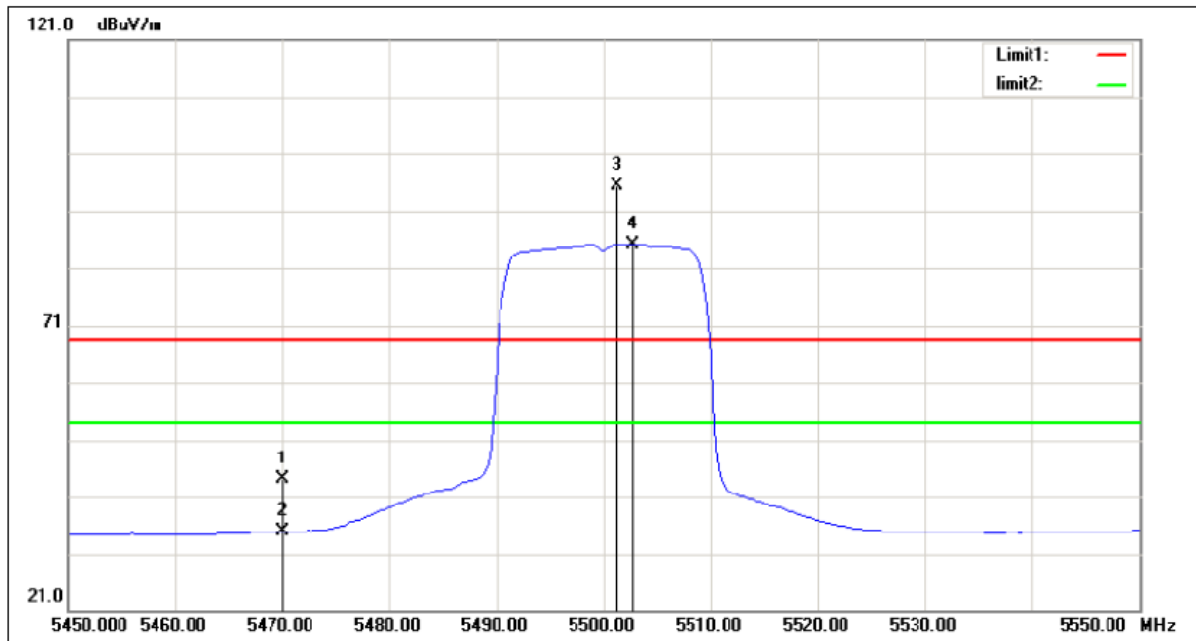
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5315.750           | 63.00               | 35.41                   | 98.41              | /                 | /              | peak   |
| 2   | 5318.750           | 53.39               | 35.41                   | 88.80              | /                 | /              | AVG    |
| 3   | 5350.000           | 10.87               | 35.50                   | 46.37              | 68.30             | -21.93         | peak   |
| 4   | 5350.000           | -0.21               | 35.50                   | 35.29              | 54.00             | -18.71         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5500 MHz |

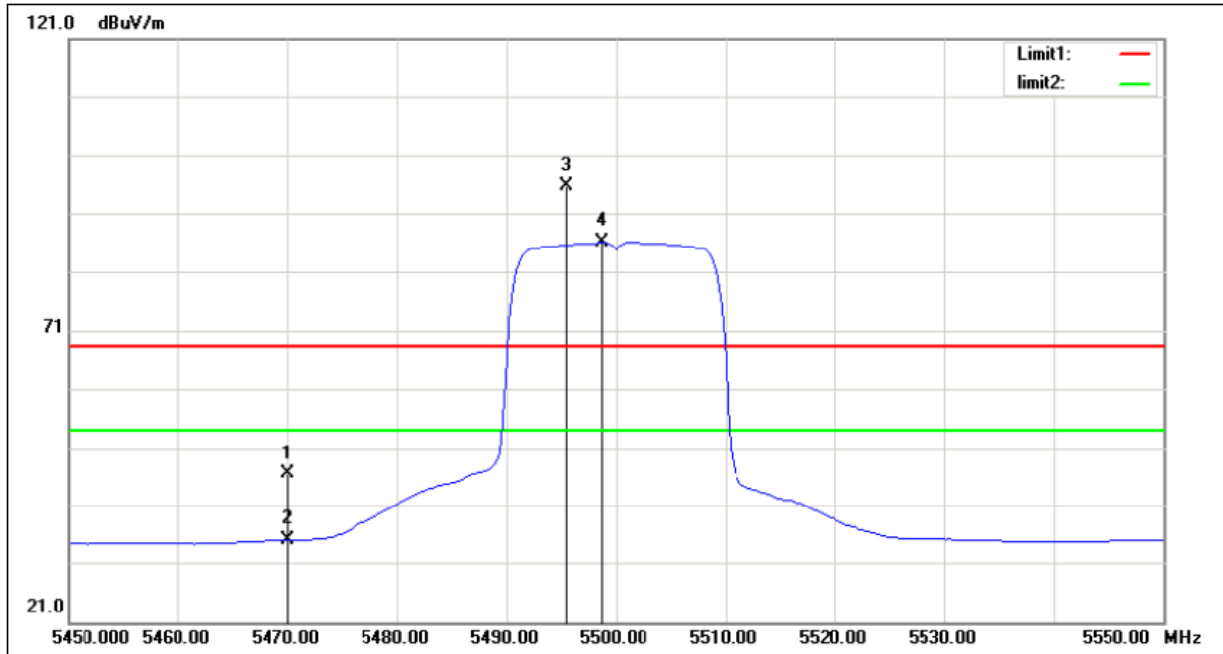
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 8.18                | 35.84                   | 44.02              | 68.30             | -24.28         | peak   |
| 2   | 5470.000           | -0.97               | 35.84                   | 34.87              | 54.00             | -19.13         | AVG    |
| 3   | 5501.250           | 59.45               | 35.93                   | 95.38              | /                 | /              | peak   |
| 4   | 5502.750           | 49.32               | 35.93                   | 85.25              | /                 | /              | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5500 MHz |

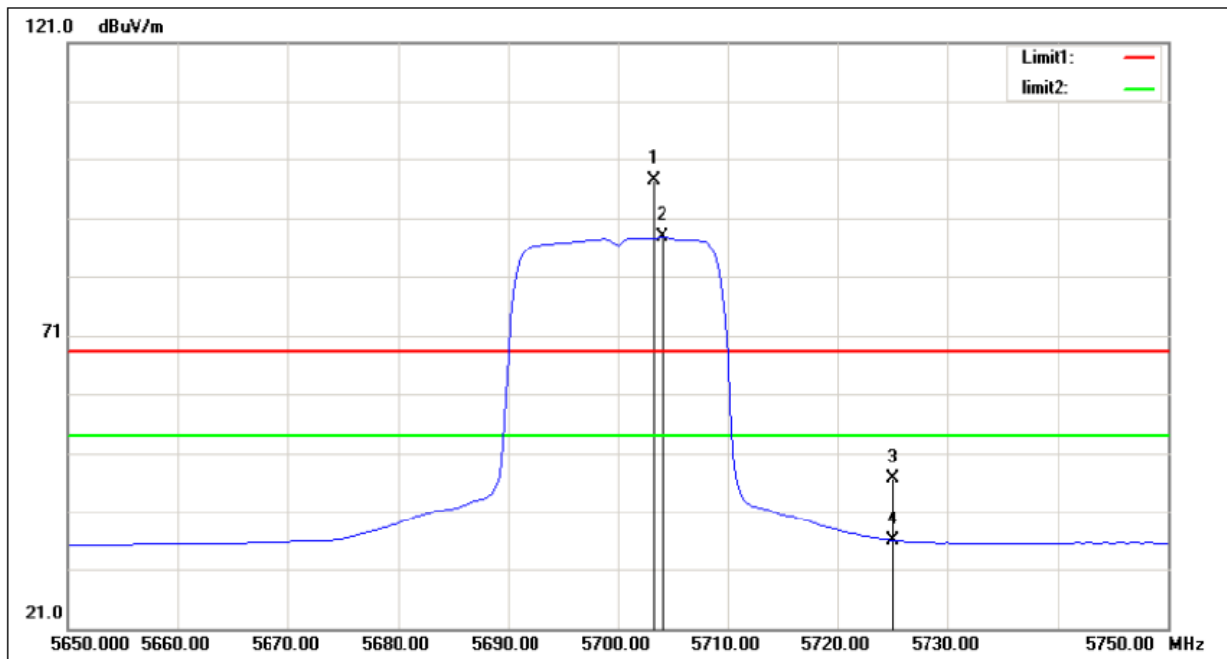
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 10.42               | 35.84                   | 46.26              | 68.30             | -22.04         | peak   |
| 2   | 5470.000           | -0.72               | 35.84                   | 35.12              | 54.00             | -18.88         | AVG    |
| 3   | 5495.500           | 59.61               | 35.91                   | 95.52              | /                 | /              | peak   |
| 4   | 5498.750           | 50.14               | 35.92                   | 86.06              | /                 | /              | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5700 MHz |

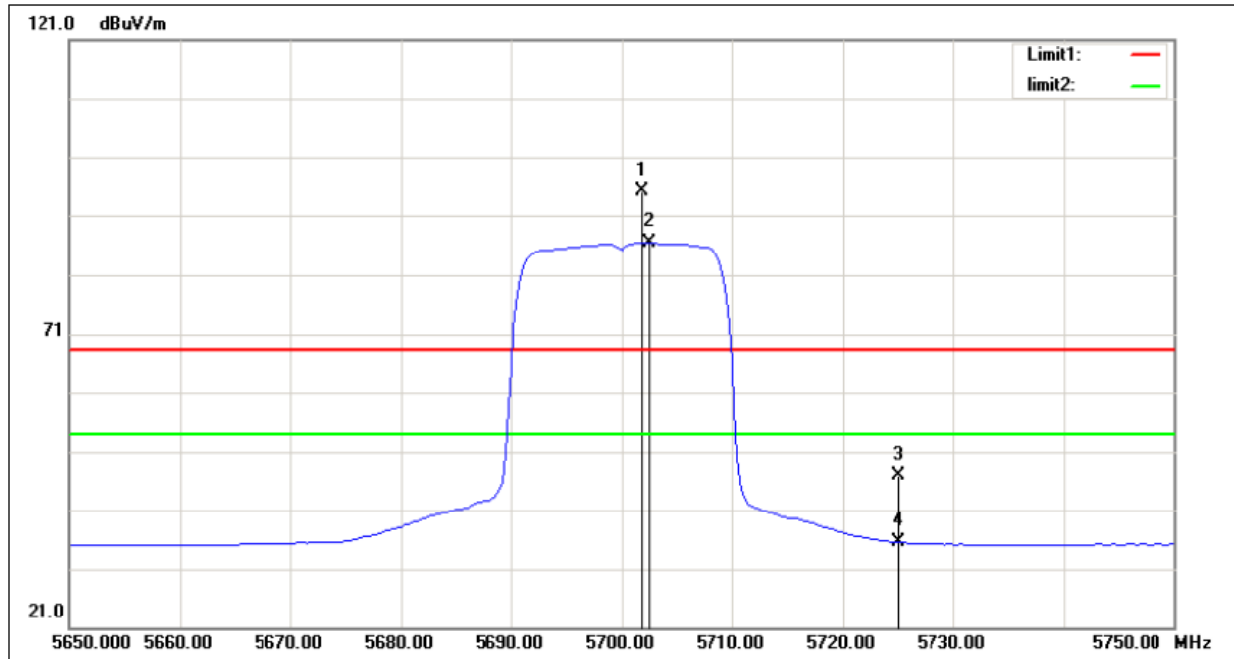
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5703.250           | 61.41               | 35.85                   | 97.26              | /                 | /              | peak   |
| 2   | 5704.000           | 52.00               | 35.85                   | 87.85              | /                 | /              | AVG    |
| 3   | 5725.000           | 10.73               | 35.84                   | 46.57              | 68.30             | -21.73         | peak   |
| 4   | 5725.000           | 0.07                | 35.84                   | 35.91              | 54.00             | -18.09         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5700 MHz |

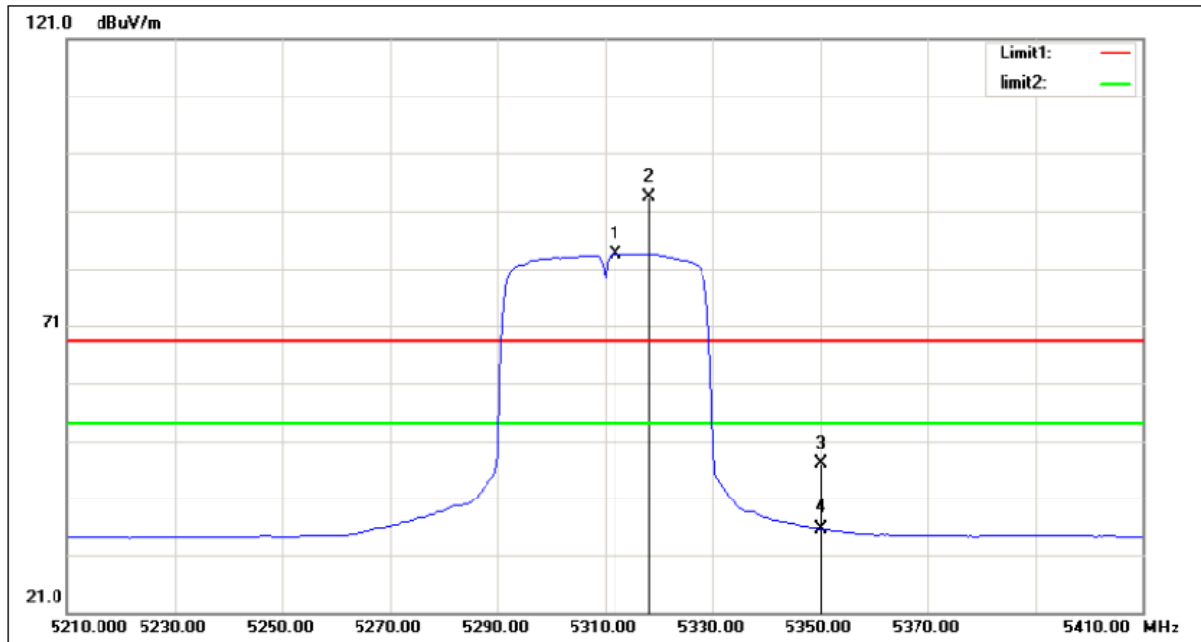
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5701.750           | 59.27               | 35.85                   | 95.12              | /                 | /              | peak   |
| 2   | 5702.500           | 50.46               | 35.85                   | 86.31              | /                 | /              | AVG    |
| 3   | 5725.000           | 10.92               | 35.84                   | 46.76              | 68.30             | -21.54         | peak   |
| 4   | 5725.000           | -0.25               | 35.84                   | 35.59              | 54.00             | -18.41         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5310 MHz |

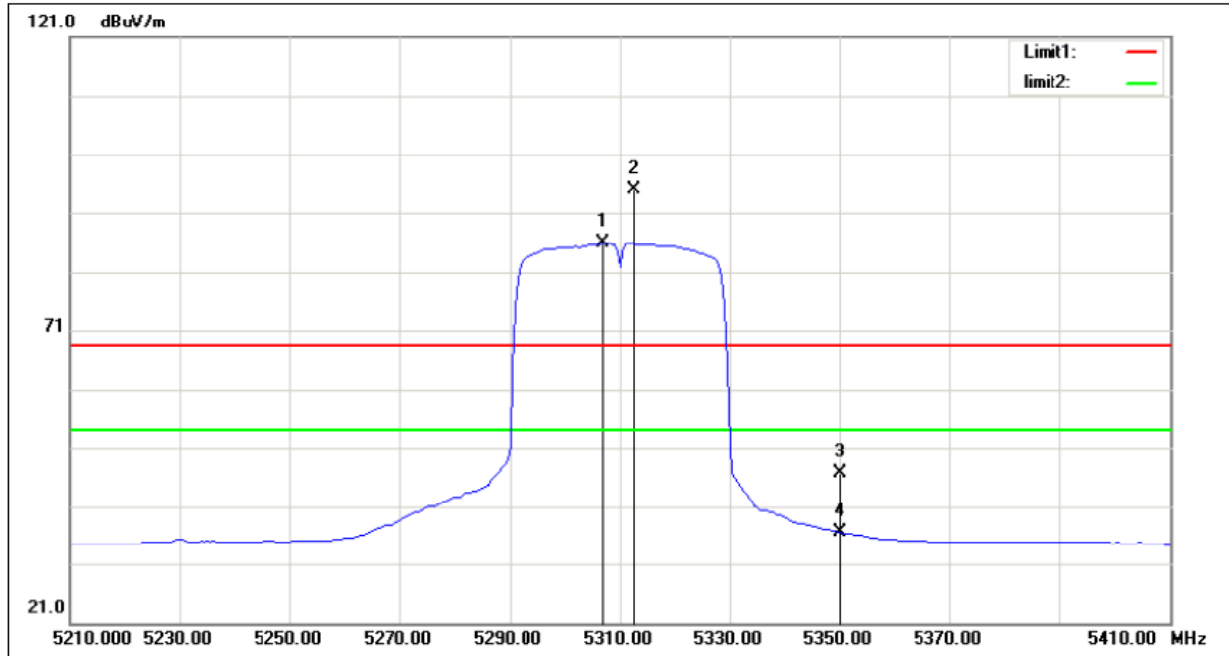
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5312.000           | 47.99               | 35.40                   | 83.39              | /                 | /              | AVG    |
| 2   | 5318.000           | 58.09               | 35.41                   | 93.50              | /                 | /              | peak   |
| 3   | 5350.000           | 11.32               | 35.50                   | 46.82              | 68.30             | -21.48         | peak   |
| 4   | 5350.000           | 0.13                | 35.50                   | 35.63              | 54.00             | -18.37         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5310 MHz |

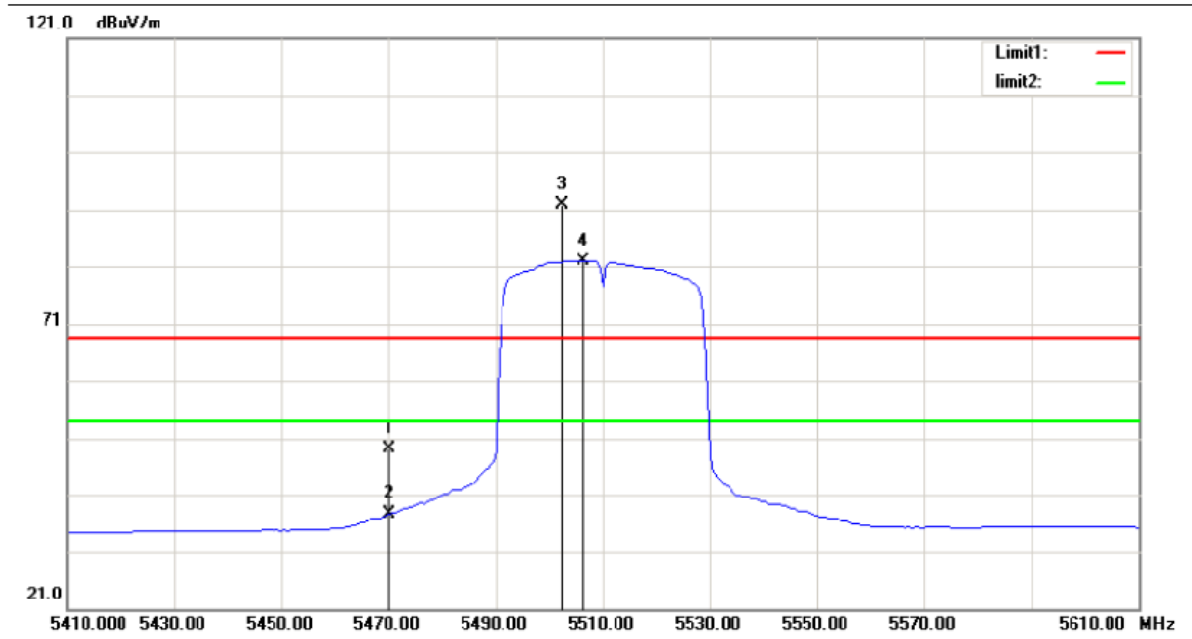
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5307.000           | 50.44               | 35.39                   | 85.83              | /                 | /              | AVG    |
| 2   | 5312.500           | 59.36               | 35.40                   | 94.76              | /                 | /              | peak   |
| 3   | 5350.000           | 11.20               | 35.50                   | 46.70              | 68.30             | -21.60         | peak   |
| 4   | 5350.000           | 1.05                | 35.50                   | 36.55              | 54.00             | -17.45         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5510 MHz |

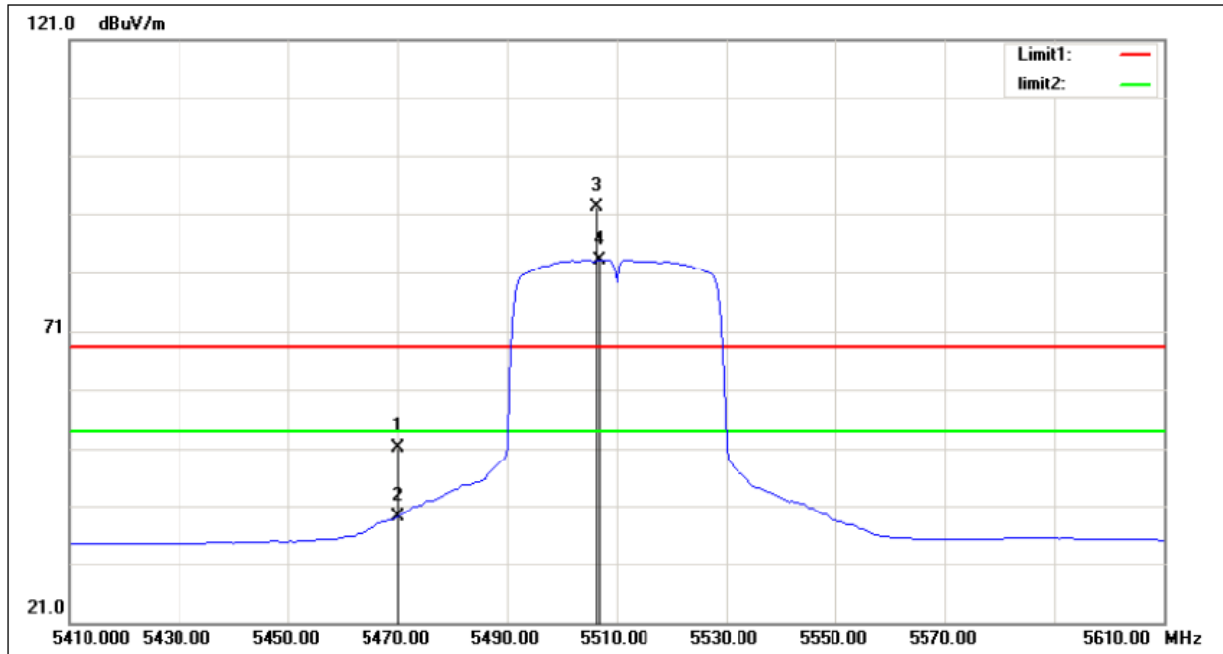
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 13.34               | 35.84                   | 49.18              | 68.30             | -19.12         | peak   |
| 2   | 5470.000           | 1.71                | 35.84                   | 37.55              | 54.00             | -16.45         | AVG    |
| 3   | 5502.500           | 56.01               | 35.93                   | 91.94              | /                 | /              | peak   |
| 4   | 5506.500           | 45.96               | 35.92                   | 81.88              | /                 | /              | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5510 MHz |

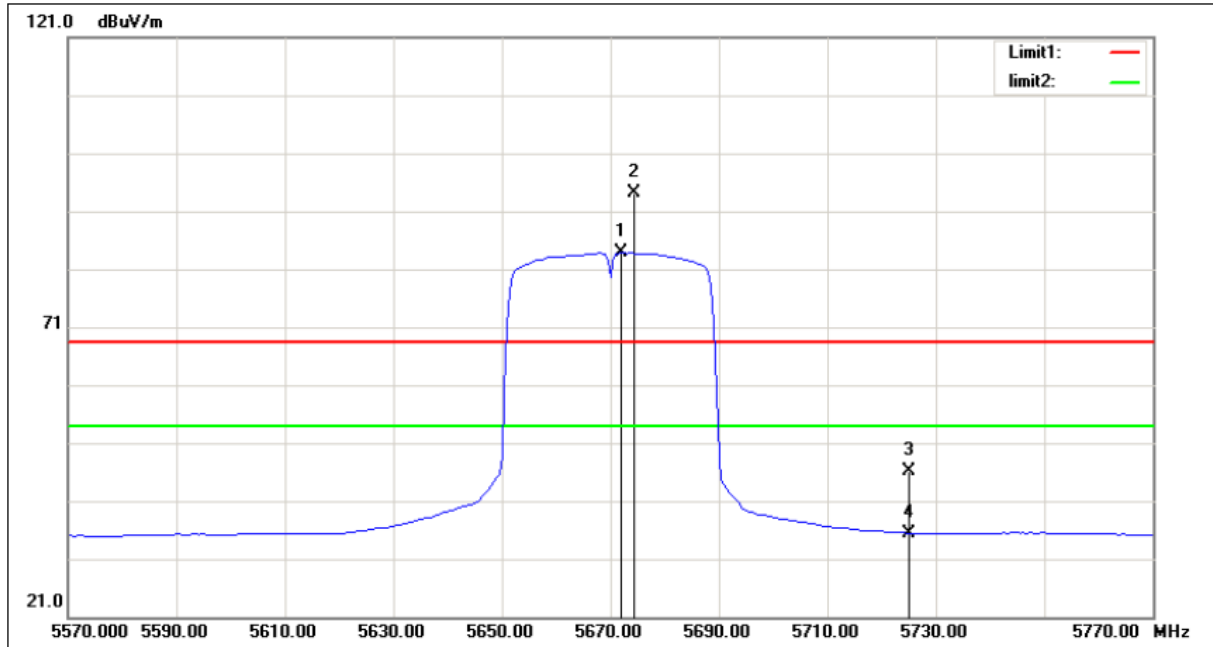
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 15.31               | 35.84                   | 51.15              | 68.30             | -17.15         | peak   |
| 2   | 5470.000           | 3.41                | 35.84                   | 39.25              | 54.00             | -14.75         | AVG    |
| 3   | 5506.500           | 56.12               | 35.92                   | 92.04              | /                 | /              | peak   |
| 4   | 5507.000           | 47.33               | 35.92                   | 83.25              | /                 | /              | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5670 MHz |

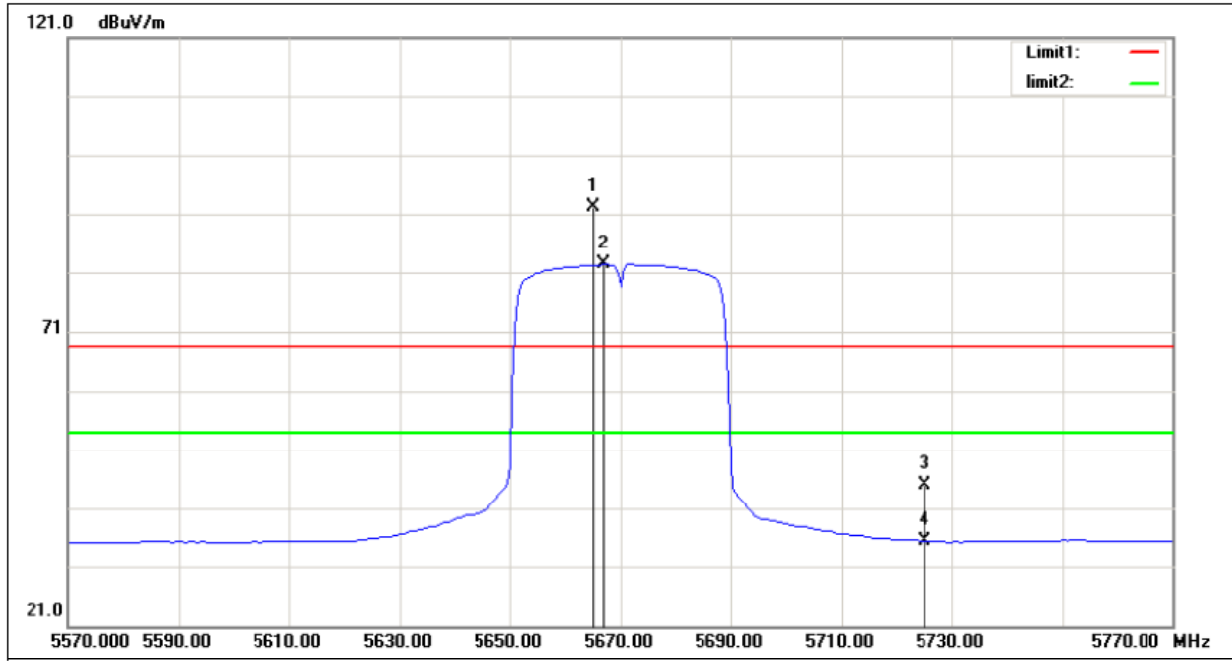
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5672.000           | 47.90               | 35.86                   | 83.76              | /                 | /              | AVG    |
| 2   | 5674.500           | 58.24               | 35.86                   | 94.10              | /                 | /              | peak   |
| 3   | 5725.000           | 10.36               | 35.84                   | 46.20              | 68.30             | -22.10         | peak   |
| 4   | 5725.000           | -0.39               | 35.84                   | 35.45              | 54.00             | -18.55         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5670 MHz |

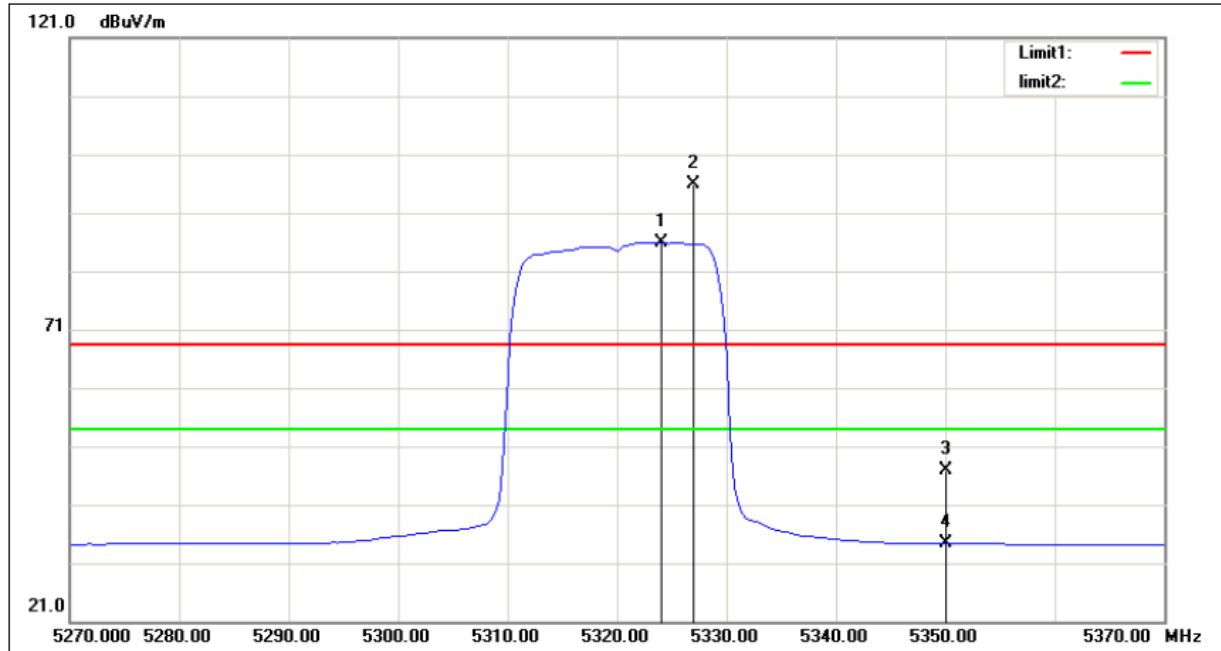
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5665.000           | 56.20               | 35.86                   | 92.06              | /                 | /              | peak   |
| 2   | 5667.000           | 46.43               | 35.86                   | 82.29              | /                 | /              | AVG    |
| 3   | 5725.000           | 9.04                | 35.84                   | 44.88              | 68.30             | -23.42         | peak   |
| 4   | 5725.000           | -0.44               | 35.84                   | 35.40              | 54.00             | -18.60         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5320 MHz |

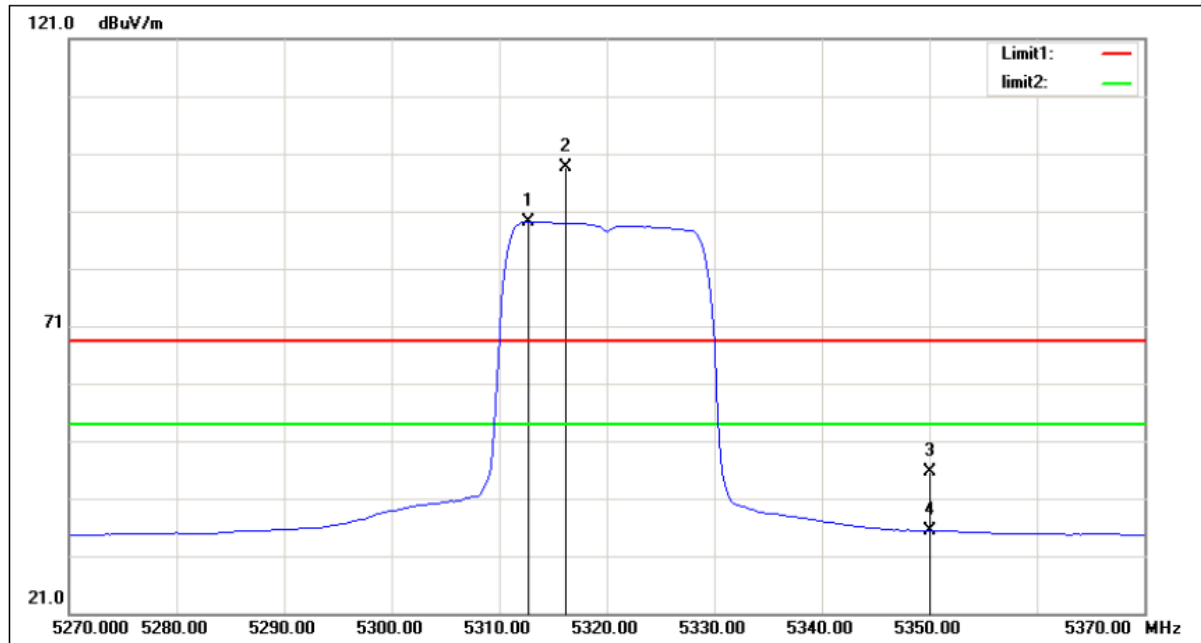
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5324.000           | 50.45               | 35.43                   | 85.88              | /                 | /              | AVG    |
| 2   | 5327.000           | 60.55               | 35.43                   | 95.98              | /                 | /              | peak   |
| 3   | 5350.000           | 11.27               | 35.50                   | 46.77              | 68.30             | -21.53         | peak   |
| 4   | 5350.000           | -1.11               | 35.50                   | 34.39              | 54.00             | -19.61         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5320 MHz |

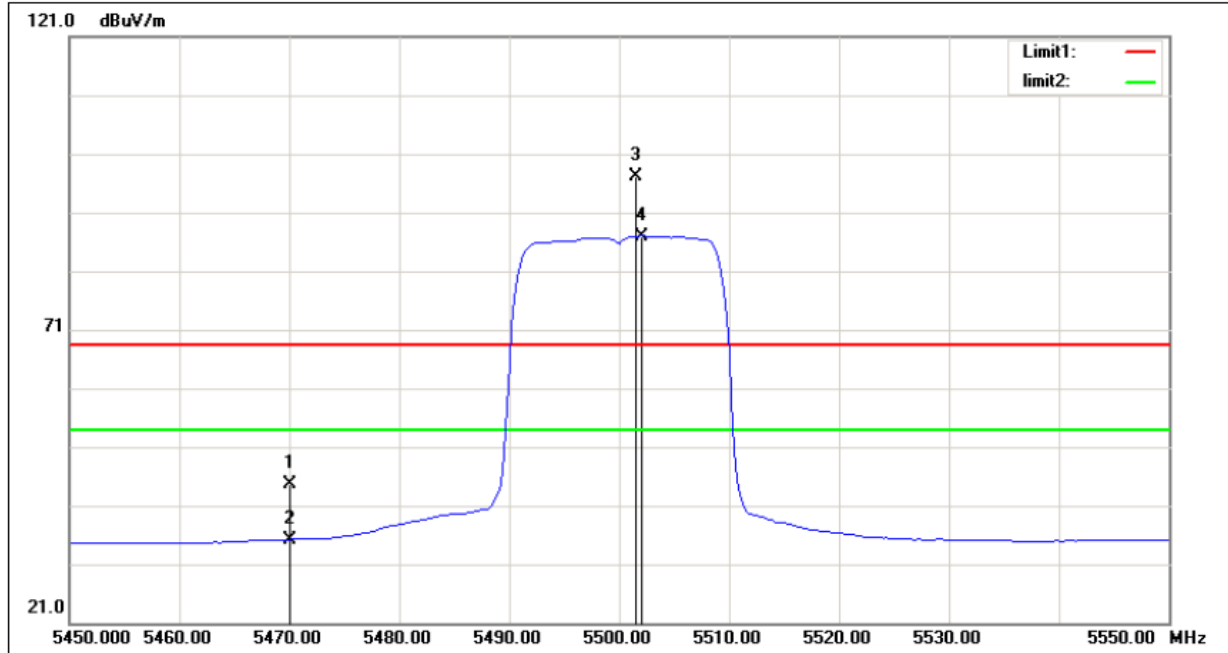
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5312.750           | 53.81               | 35.40                   | 89.21              | /                 | /              | AVG    |
| 2   | 5316.250           | 63.29               | 35.41                   | 98.70              | /                 | /              | peak   |
| 3   | 5350.000           | 10.14               | 35.50                   | 45.64              | 68.30             | -22.66         | peak   |
| 4   | 5350.000           | -0.09               | 35.50                   | 35.41              | 54.00             | -18.59         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5500 MHz |

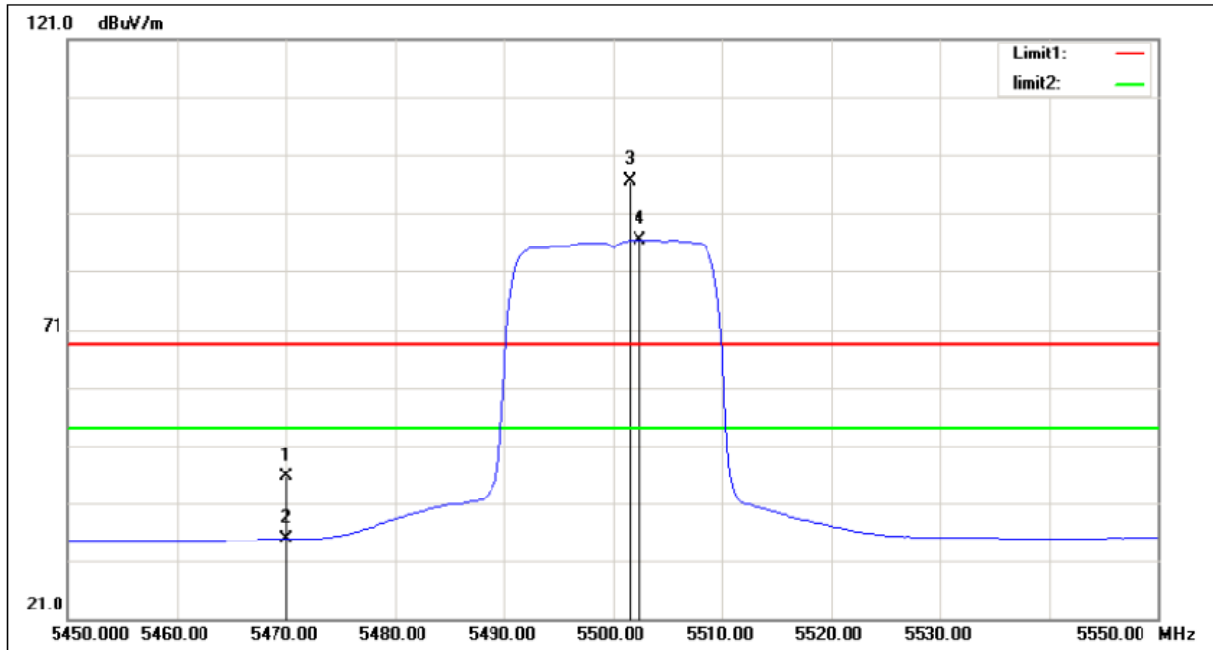
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 8.72                | 35.84                   | 44.56              | 68.30             | -23.74         | peak   |
| 2   | 5470.000           | -0.61               | 35.84                   | 35.23              | 54.00             | -18.77         | AVG    |
| 3   | 5501.500           | 61.21               | 35.93                   | 97.14              | /                 | /              | peak   |
| 4   | 5502.000           | 51.07               | 35.93                   | 87.00              | /                 | /              | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5500 MHz |

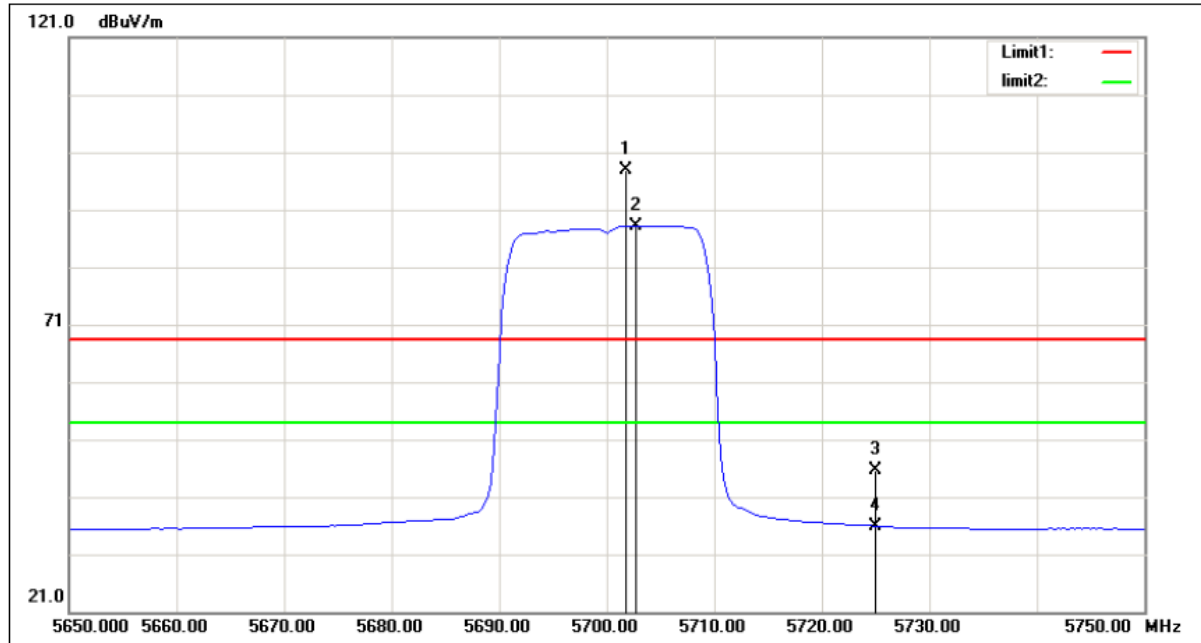
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 9.83                | 35.84                   | 45.67              | 68.30             | -22.63         | peak   |
| 2   | 5470.000           | -0.99               | 35.84                   | 34.85              | 54.00             | -19.15         | AVG    |
| 3   | 5501.500           | 60.62               | 35.93                   | 96.55              | /                 | /              | peak   |
| 4   | 5502.500           | 50.49               | 35.93                   | 86.42              | /                 | /              | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5700 MHz |

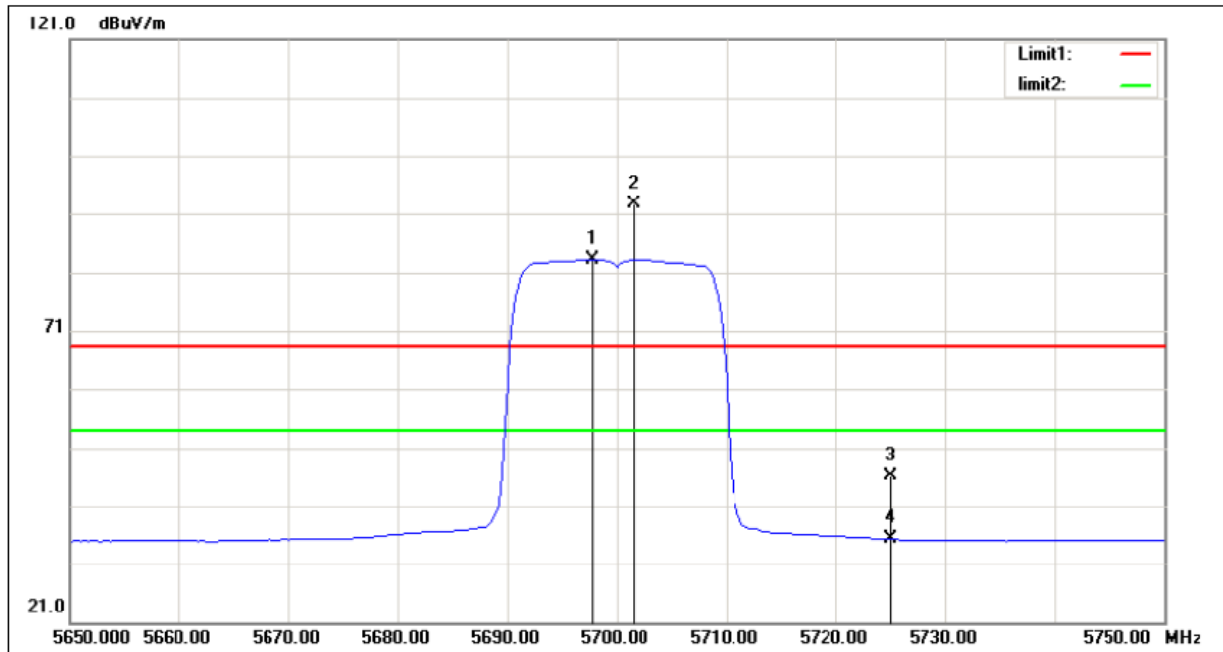
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5701.750           | 61.97               | 35.85                   | 97.82              | /                 | /              | peak   |
| 2   | 5702.750           | 52.40               | 35.85                   | 88.25              | /                 | /              | AVG    |
| 3   | 5725.000           | 9.90                | 35.84                   | 45.74              | 68.30             | -22.56         | peak   |
| 4   | 5725.000           | 0.06                | 35.84                   | 35.90              | 54.00             | -18.10         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5700 MHz |

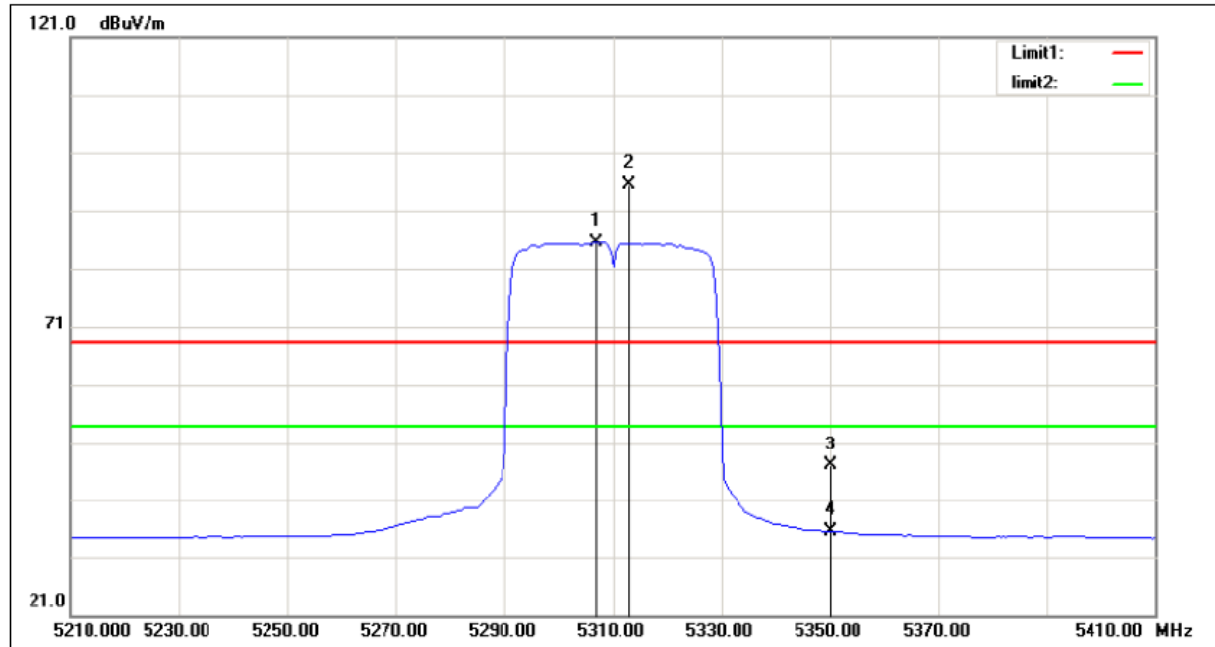
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5697.750           | 47.34               | 35.85                   | 83.19              | /                 | /              | AVG    |
| 2   | 5701.500           | 56.80               | 35.85                   | 92.65              | /                 | /              | peak   |
| 3   | 5725.000           | 10.27               | 35.84                   | 46.11              | 68.30             | -22.19         | peak   |
| 4   | 5725.000           | -0.53               | 35.84                   | 35.31              | 54.00             | -18.69         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

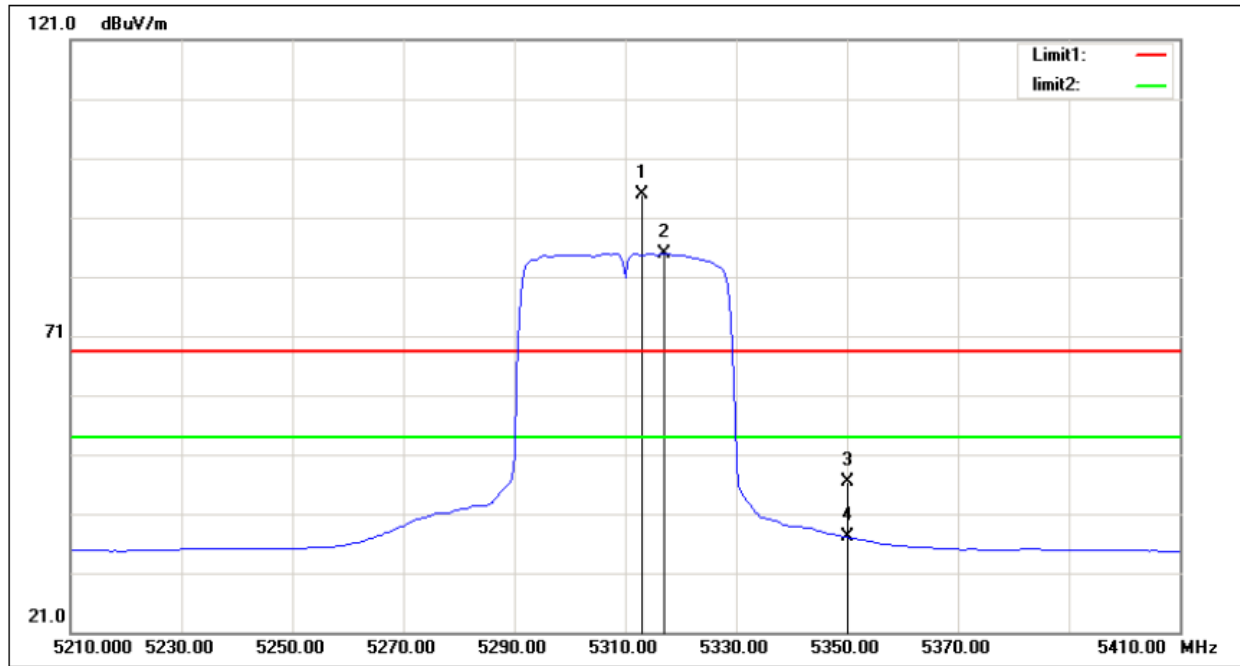
## Vertical



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 5307.000        | 50.13            | 35.39                | 85.52           | /              | /           | AVG    |
| 2   | 5313.000        | 60.29            | 35.40                | 95.69           | /              | /           | peak   |
| 3   | 5350.000        | 11.51            | 35.50                | 47.01           | 68.30          | -21.29      | peak   |
| 4   | 5350.000        | 0.09             | 35.50                | 35.59           | 54.00          | -18.41      | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

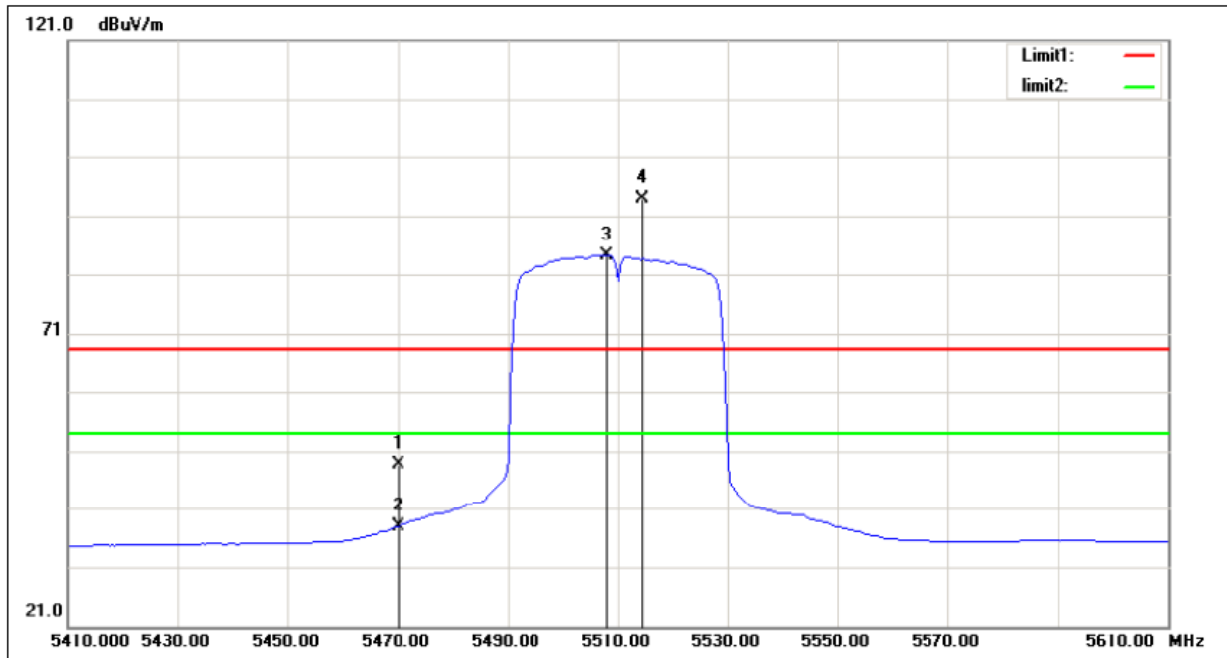
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5313.000           | 59.44               | 35.40                   | 94.84              | /                 | /              | peak   |
| 2   | 5317.000           | 49.53               | 35.41                   | 84.94              | /                 | /              | AVG    |
| 3   | 5350.000           | 10.88               | 35.50                   | 46.38              | 68.30             | -21.92         | peak   |
| 4   | 5350.000           | 1.63                | 35.50                   | 37.13              | 54.00             | -16.87         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

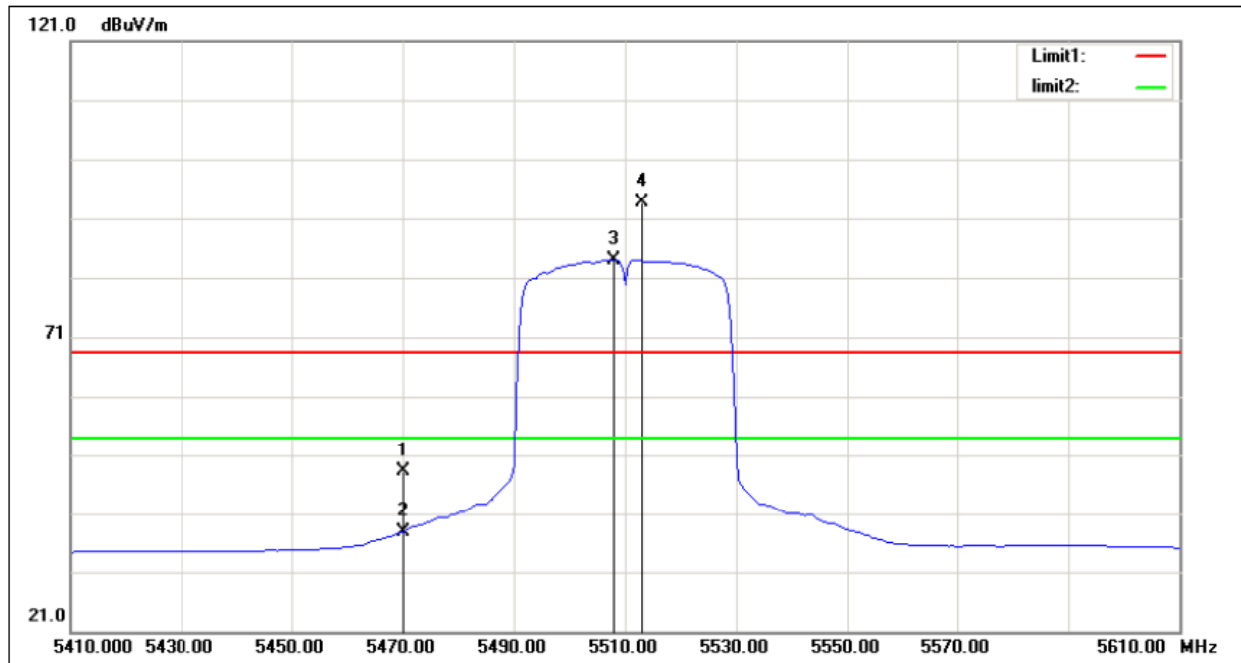
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 12.89               | 35.84                   | 48.73              | 68.30             | -19.57         | peak   |
| 2   | 5470.000           | 2.01                | 35.84                   | 37.85              | 54.00             | -16.15         | AVG    |
| 3   | 5508.000           | 48.22               | 35.92                   | 84.14              | /                 | /              | AVG    |
| 4   | 5514.500           | 57.94               | 35.92                   | 93.86              | /                 | /              | peak   |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

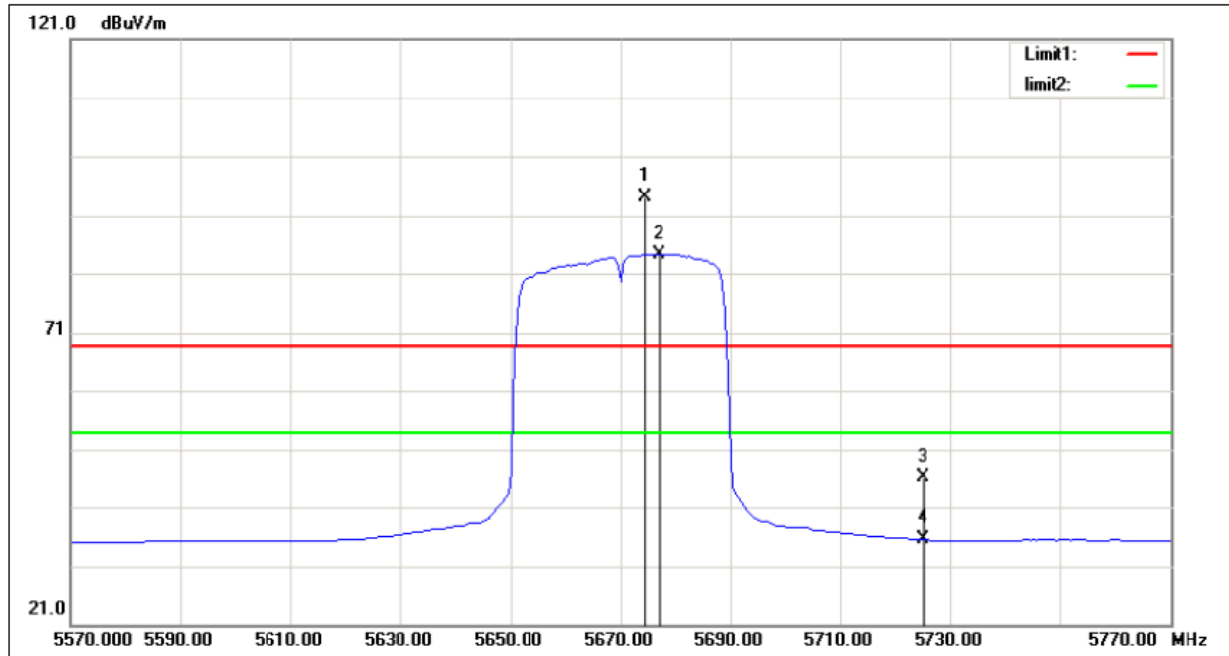
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 12.40               | 35.84                   | 48.24              | 68.30             | -20.06         | peak   |
| 2   | 5470.000           | 2.07                | 35.84                   | 37.91              | 54.00             | -16.09         | AVG    |
| 3   | 5508.000           | 48.04               | 35.92                   | 83.96              | /                 | /              | AVG    |
| 4   | 5513.000           | 57.68               | 35.92                   | 93.60              | /                 | /              | peak   |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

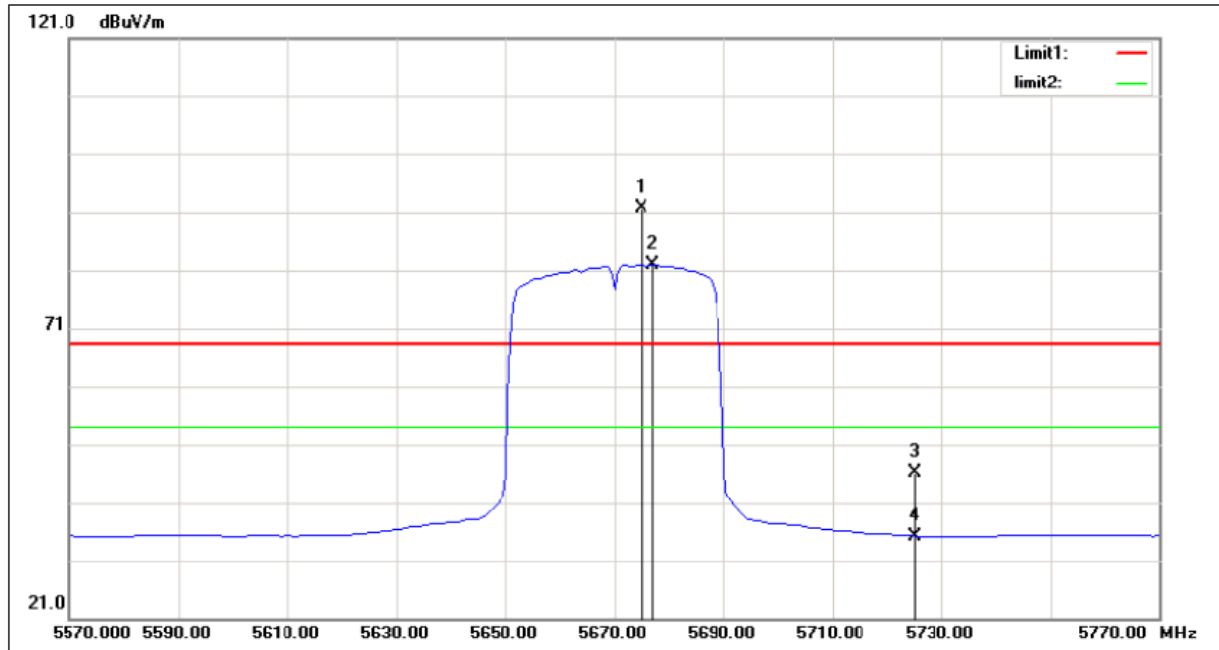
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5674.500           | 58.20               | 35.86                   | 94.06              | /                 | /              | peak   |
| 2   | 5677.000           | 48.38               | 35.86                   | 84.24              | /                 | /              | AVG    |
| 3   | 5725.000           | 10.36               | 35.84                   | 46.20              | 68.30             | -22.10         | peak   |
| 4   | 5725.000           | -0.26               | 35.84                   | 35.58              | 54.00             | -18.42         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

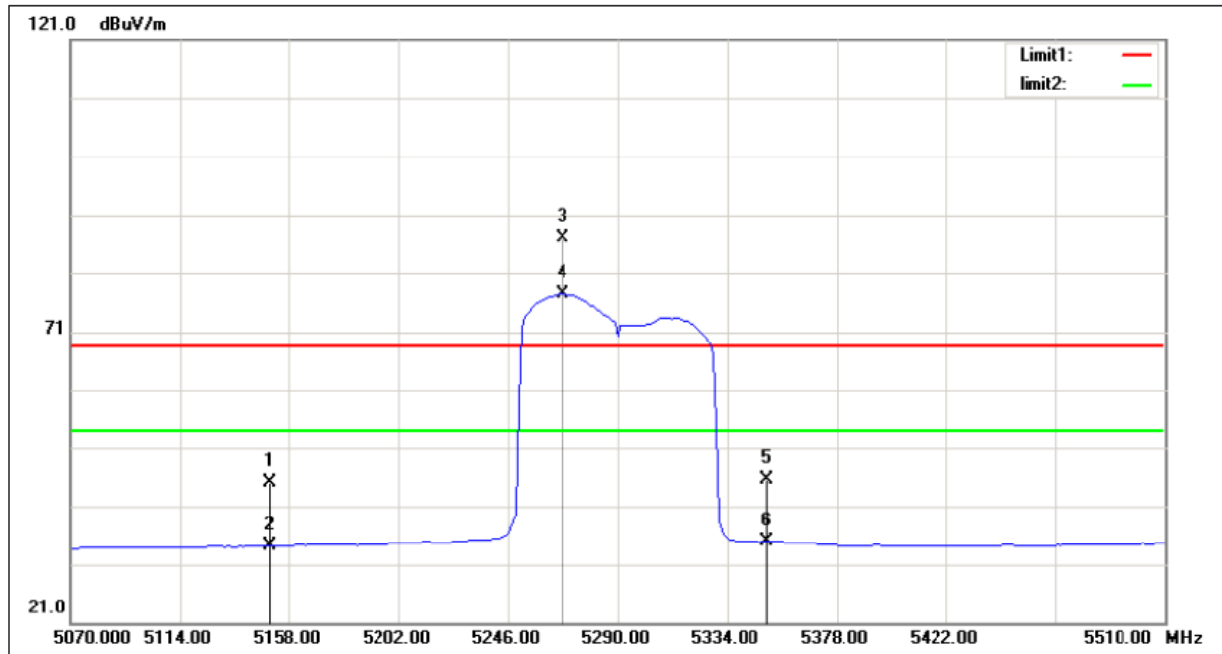
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5675.000           | 55.72               | 35.86                   | 91.58              | /                 | /              | peak   |
| 2   | 5677.000           | 46.03               | 35.86                   | 81.89              | /                 | /              | AVG    |
| 3   | 5725.000           | 10.30               | 35.84                   | 46.14              | 68.30             | -22.16         | peak   |
| 4   | 5725.000           | -0.61               | 35.84                   | 35.23              | 54.00             | -18.77         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

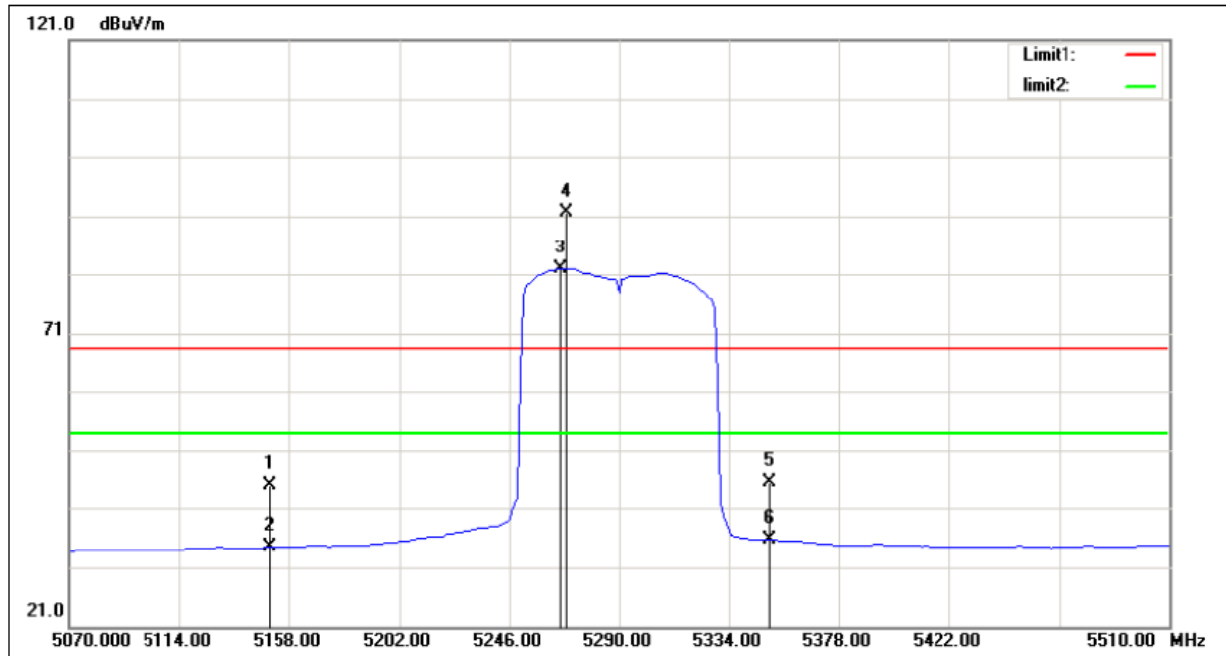
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 10.08               | 34.94                   | 45.02              | 68.30             | -23.28         | peak   |
| 2   | 5150.000           | -0.80               | 34.94                   | 34.14              | 54.00             | -19.86         | AVG    |
| 3   | 5268.000           | 51.78               | 35.27                   | 87.05              | /                 | /              | peak   |
| 4   | 5268.000           | 42.01               | 35.27                   | 77.28              | /                 | /              | AVG    |
| 5   | 5350.000           | 10.25               | 35.50                   | 45.75              | 68.30             | -22.55         | peak   |
| 6   | 5350.000           | -0.62               | 35.50                   | 34.88              | 54.00             | -19.12         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

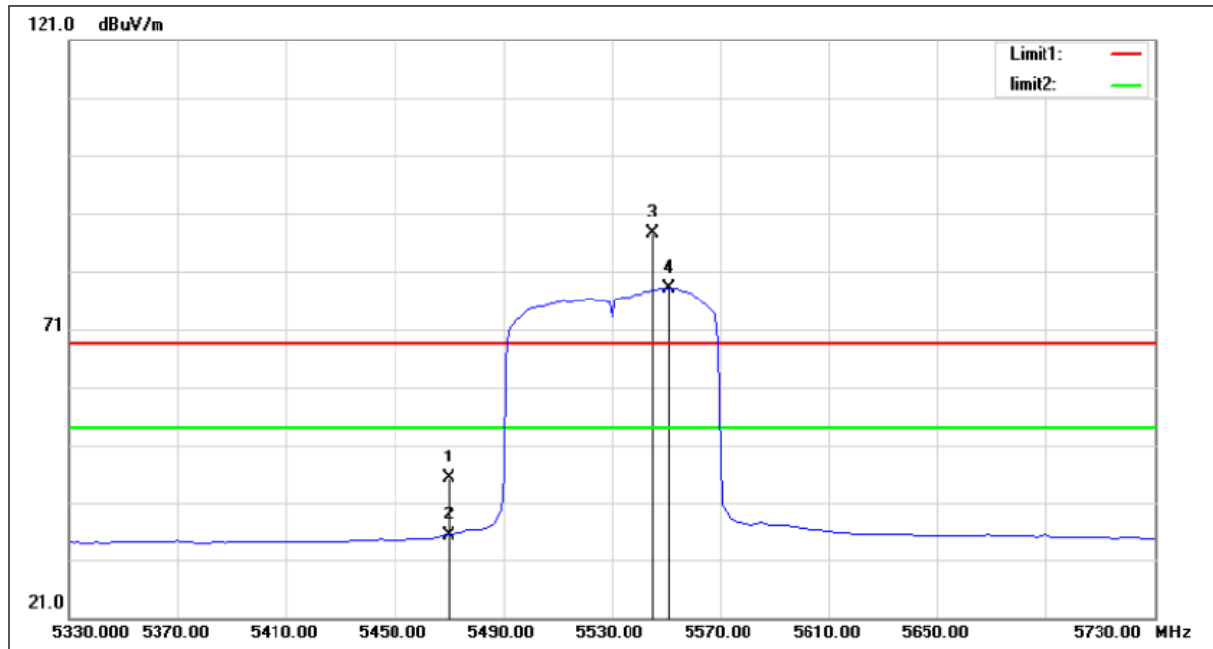
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 10.21               | 34.94                   | 45.15              | 68.30             | -23.15         | peak   |
| 2   | 5150.000           | -0.63               | 34.94                   | 34.31              | 54.00             | -19.69         | AVG    |
| 3   | 5266.900           | 46.70               | 35.27                   | 81.97              | /                 | /              | AVG    |
| 4   | 5269.100           | 56.44               | 35.28                   | 91.72              | /                 | /              | peak   |
| 5   | 5350.000           | 10.19               | 35.50                   | 45.69              | 68.30             | -22.61         | peak   |
| 6   | 5350.000           | 0.16                | 35.50                   | 35.66              | 54.00             | -18.34         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

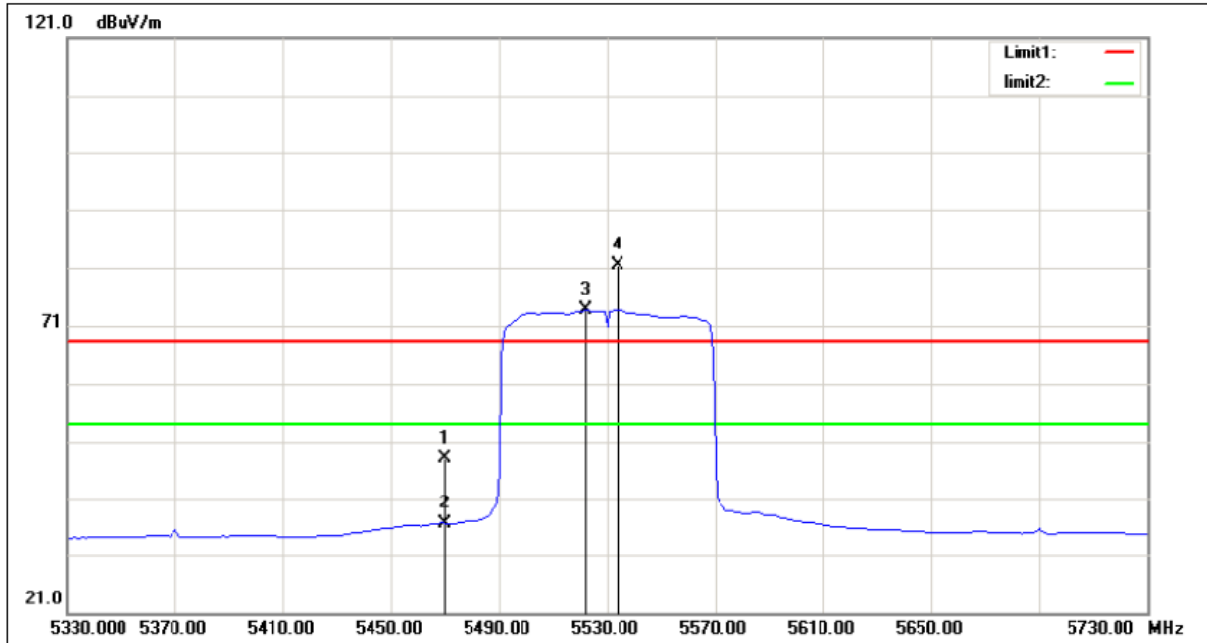
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 9.29                | 35.84                   | 45.13              | 68.30             | -23.17         | peak   |
| 2   | 5470.000           | -0.60               | 35.84                   | 35.24              | 54.00             | -18.76         | AVG    |
| 3   | 5545.000           | 51.58               | 35.90                   | 87.48              | /                 | /              | peak   |
| 4   | 5551.000           | 41.92               | 35.91                   | 77.83              | /                 | /              | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

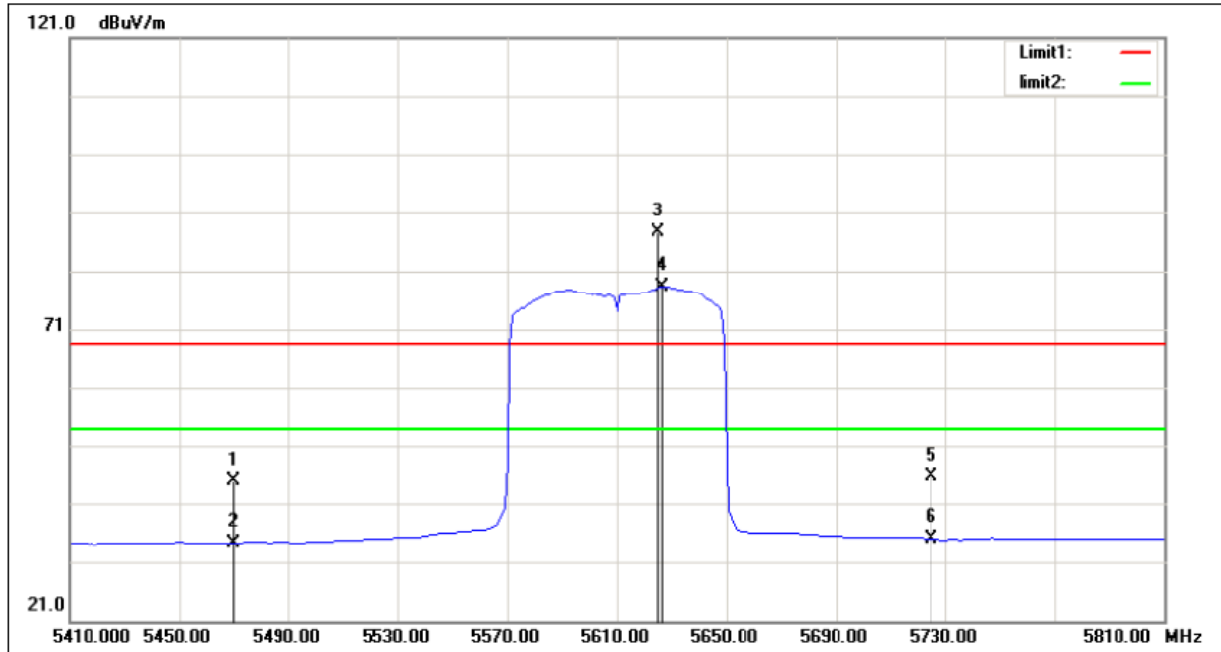
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 11.99               | 35.84                   | 47.83              | 68.30             | -20.47         | peak   |
| 2   | 5470.000           | 0.81                | 35.84                   | 36.65              | 54.00             | -17.35         | AVG    |
| 3   | 5522.000           | 37.69               | 35.91                   | 73.60              | /                 | /              | AVG    |
| 4   | 5533.750           | 45.36               | 35.91                   | 81.27              | /                 | /              | peak   |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

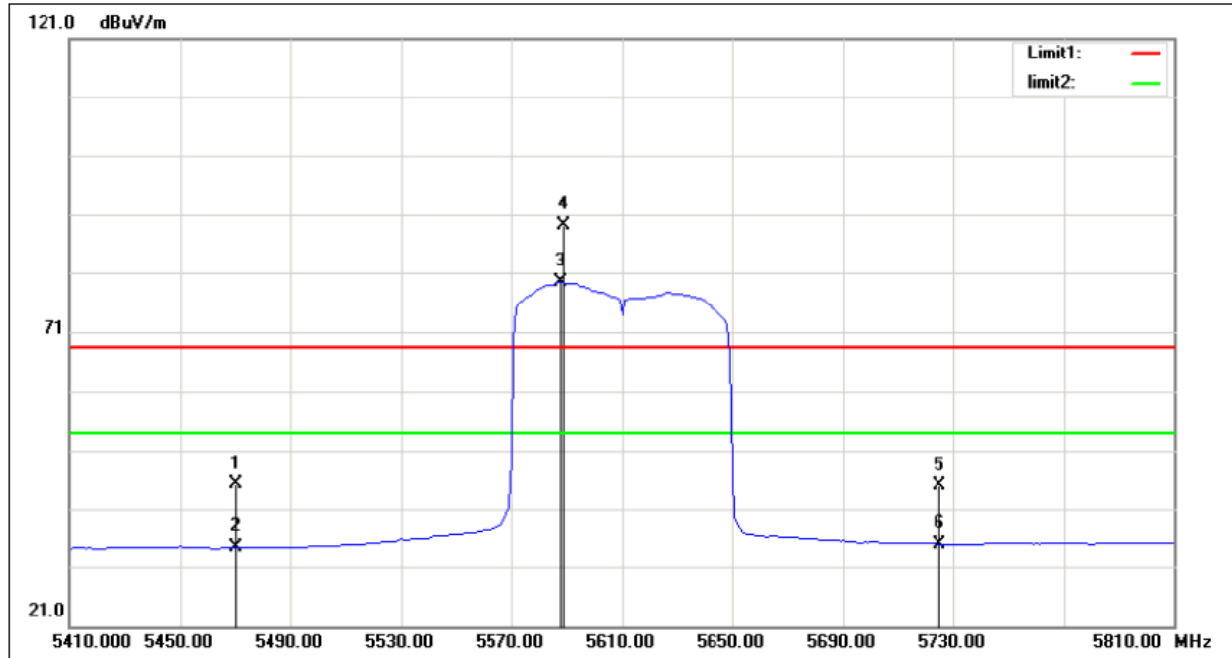
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 9.14                | 35.84                   | 44.98              | 68.30             | -23.32         | peak   |
| 2   | 5470.000           | -1.37               | 35.84                   | 34.47              | 54.00             | -19.53         | AVG    |
| 3   | 5625.000           | 51.84               | 35.88                   | 87.72              | /                 | /              | peak   |
| 4   | 5627.000           | 42.43               | 35.88                   | 78.31              | /                 | /              | AVG    |
| 5   | 5725.000           | 9.82                | 35.84                   | 45.66              | 68.30             | -22.64         | peak   |
| 6   | 5725.000           | -0.71               | 35.84                   | 35.13              | 54.00             | -18.87         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

## Horizontal

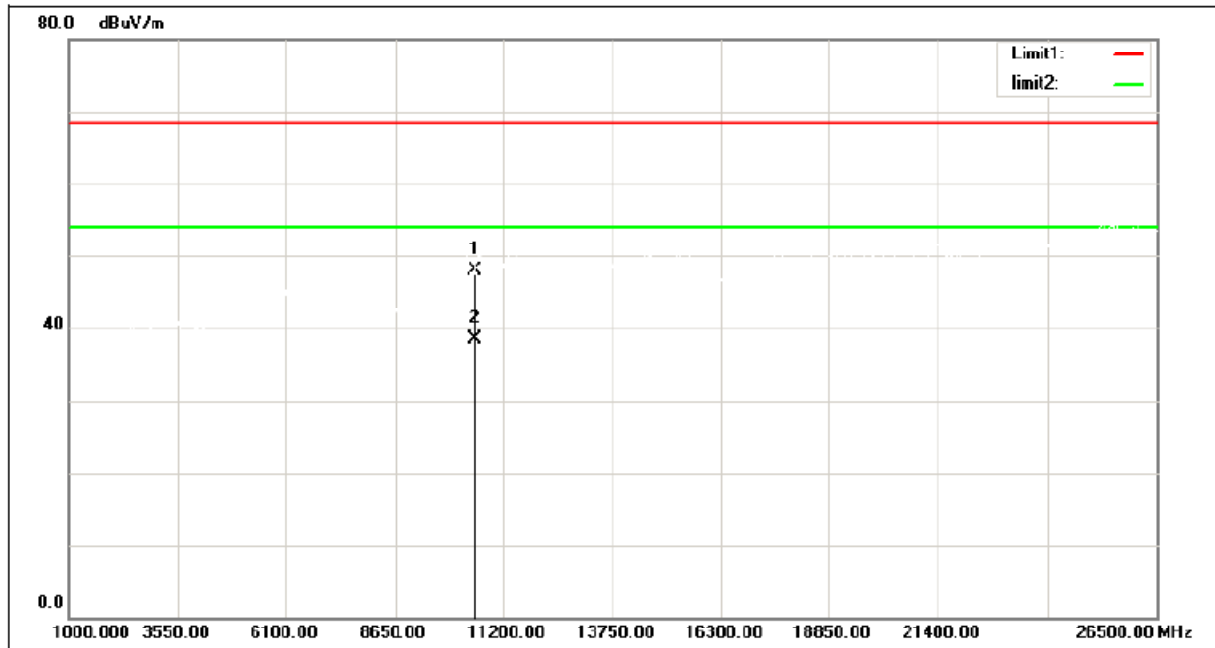


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 5470.000           | 9.28                | 35.84                   | 45.12              | 68.30             | -23.18         | peak   |
| 2   | 5470.000           | -1.43               | 35.84                   | 34.41              | 54.00             | -19.59         | AVG    |
| 3   | 5588.000           | 43.41               | 35.89                   | 79.30              | /                 | /              | AVG    |
| 4   | 5589.000           | 53.25               | 35.89                   | 89.14              | /                 | /              | peak   |
| 5   | 5725.000           | 9.15                | 35.84                   | 44.99              | 68.30             | -23.31         | peak   |
| 6   | 5725.000           | -0.90               | 35.84                   | 34.94              | 54.00             | -19.06         | AVG    |

## 5.9. TEST RESULTS - ABOVE1000 MHz (HARMONIC)

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5260 MHz |

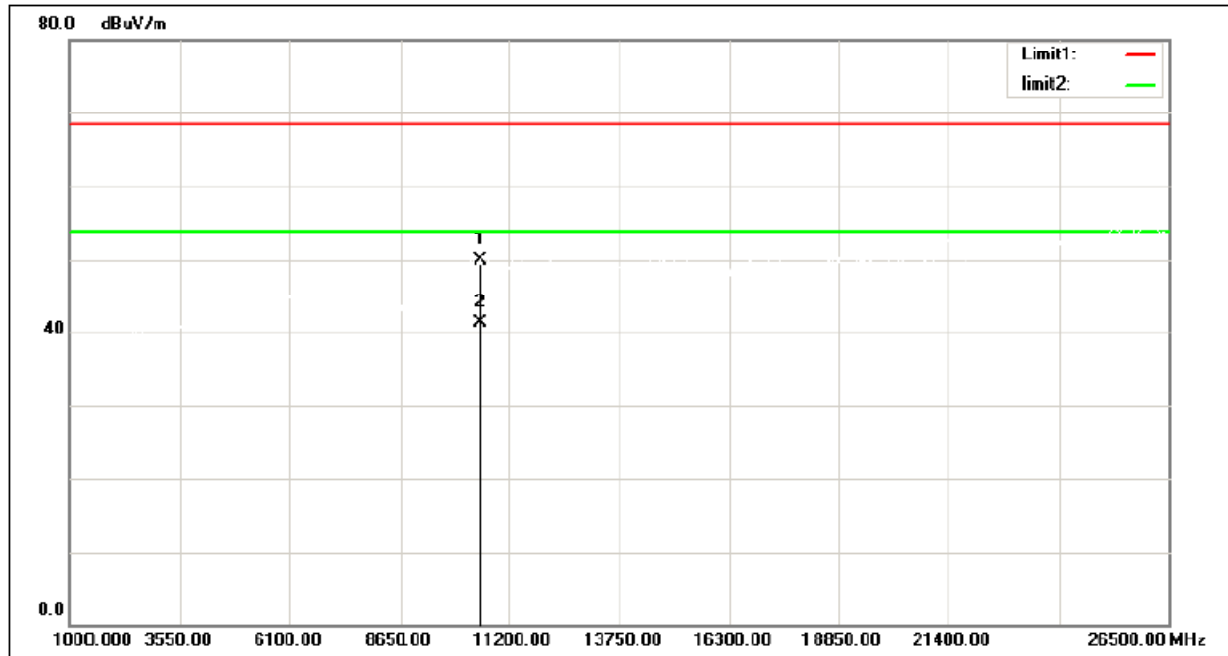
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 41.19               | 6.74                    | 47.93              | 68.30             | -20.37         | peak   |
| 2   | 10520.000          | 31.82               | 6.74                    | 38.56              | 54.00             | -15.44         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5260 MHz |

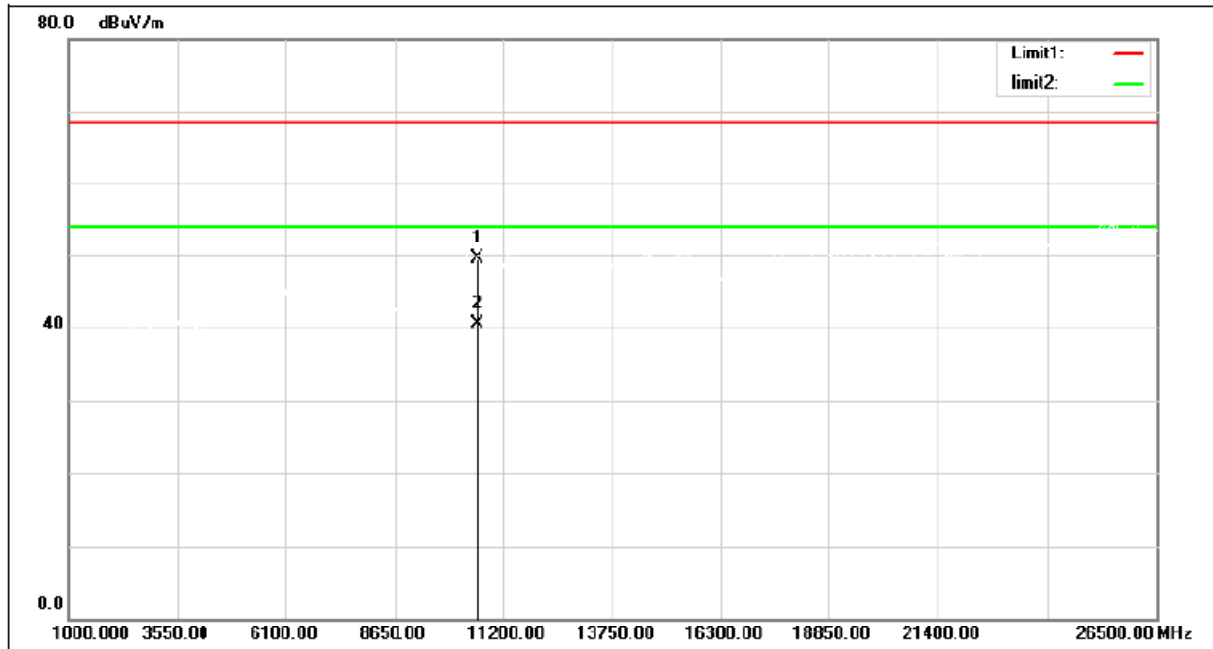
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 43.15               | 6.74                    | 49.89              | 68.30             | -18.41         | peak   |
| 2   | 10520.000          | 34.54               | 6.74                    | 41.28              | 54.00             | -12.72         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5300 MHz |

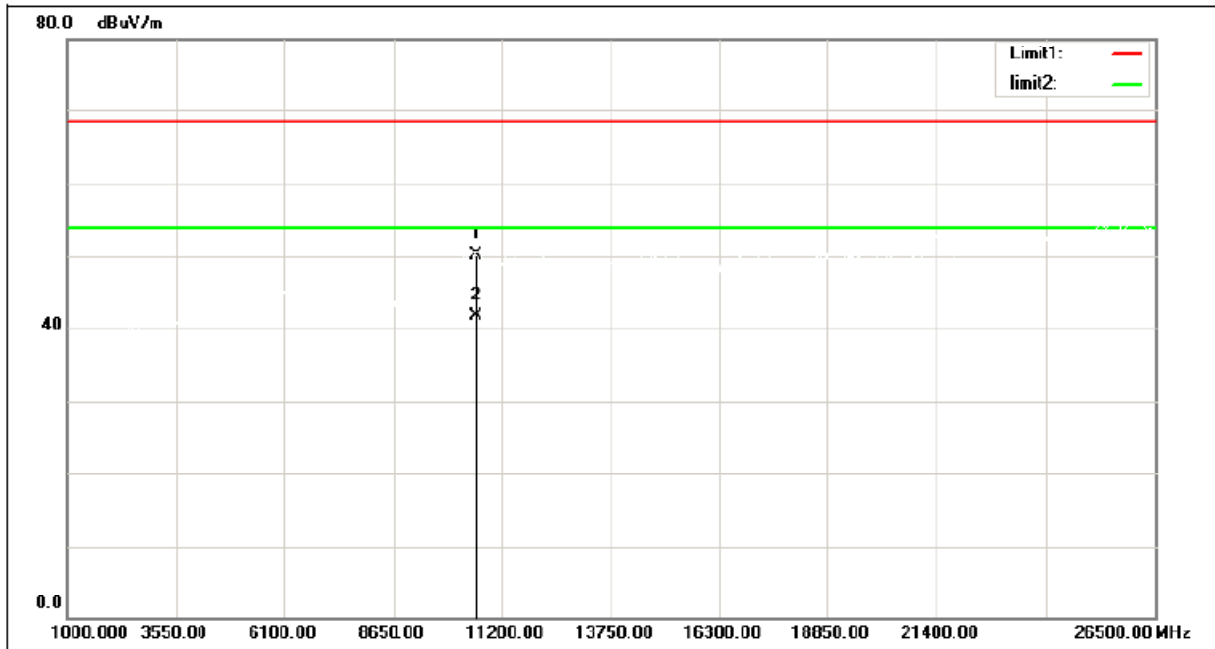
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 42.41               | 7.00                    | 49.41              | 68.30             | -18.89         | peak   |
| 2   | 10600.000          | 33.58               | 7.00                    | 40.58              | 54.00             | -13.42         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5300 MHz |

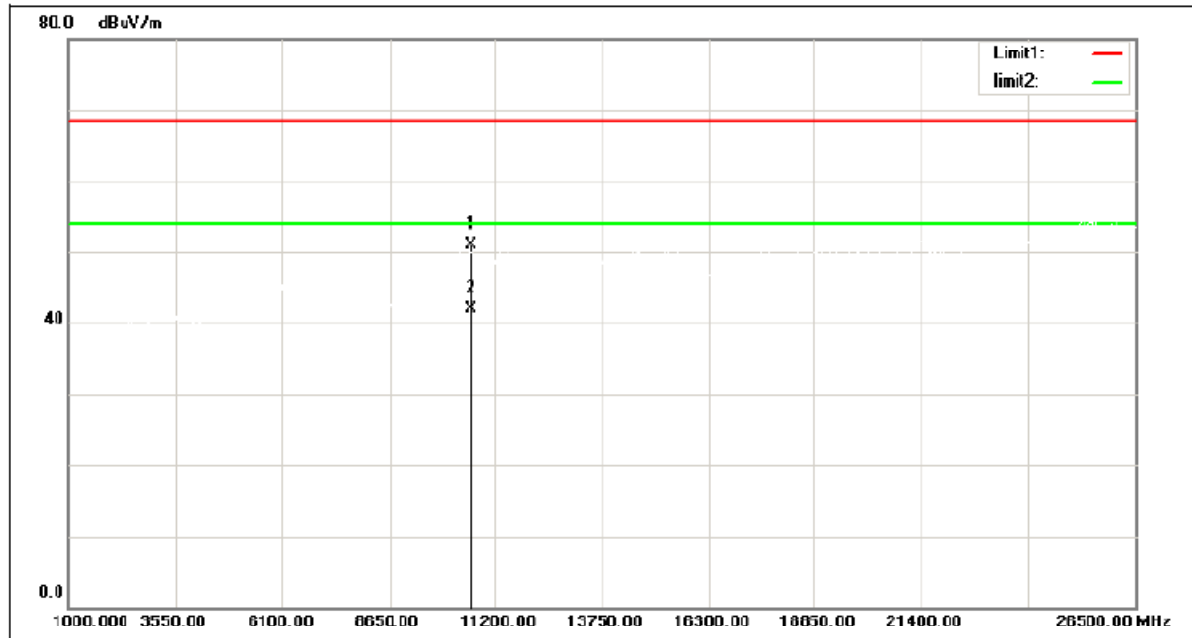
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 43.13               | 7.00                    | 50.13              | 68.30             | -18.17         | peak   |
| 2   | 10600.000          | 34.66               | 7.00                    | 41.66              | 54.00             | -12.34         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5320 MHz |

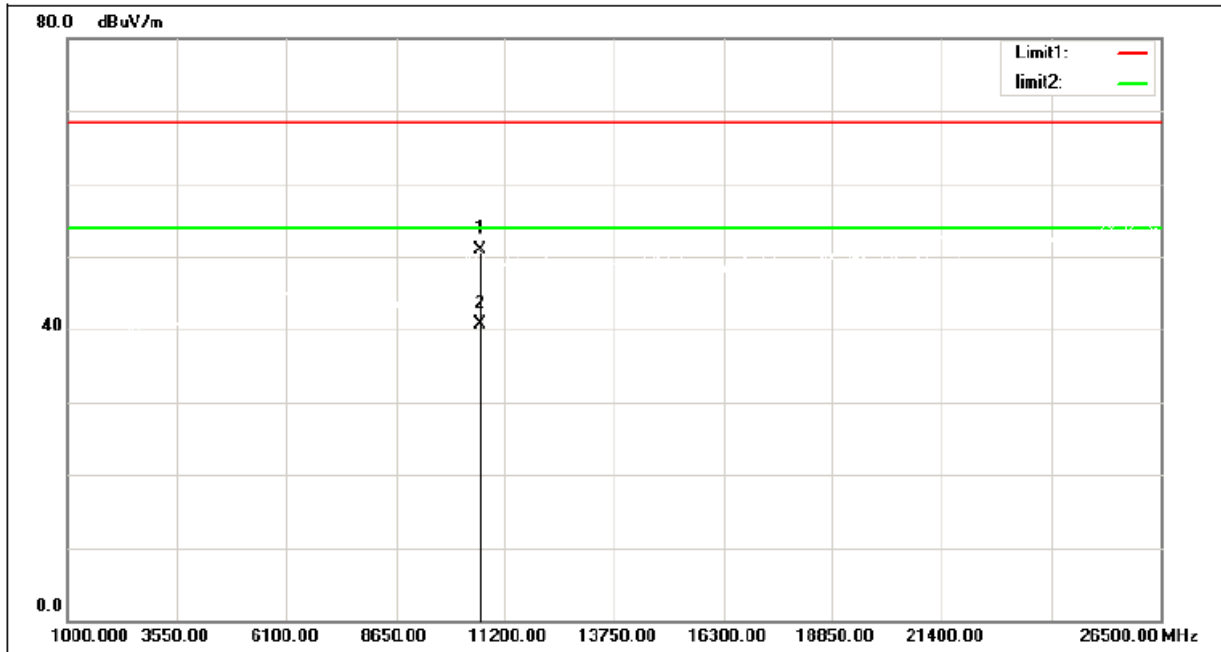
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 43.71               | 7.13                    | 50.84              | 68.30             | -17.46         | peak   |
| 2   | 10640.000          | 34.82               | 7.13                    | 41.95              | 54.00             | -12.05         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2A_TX A Mode 5320 MHz |

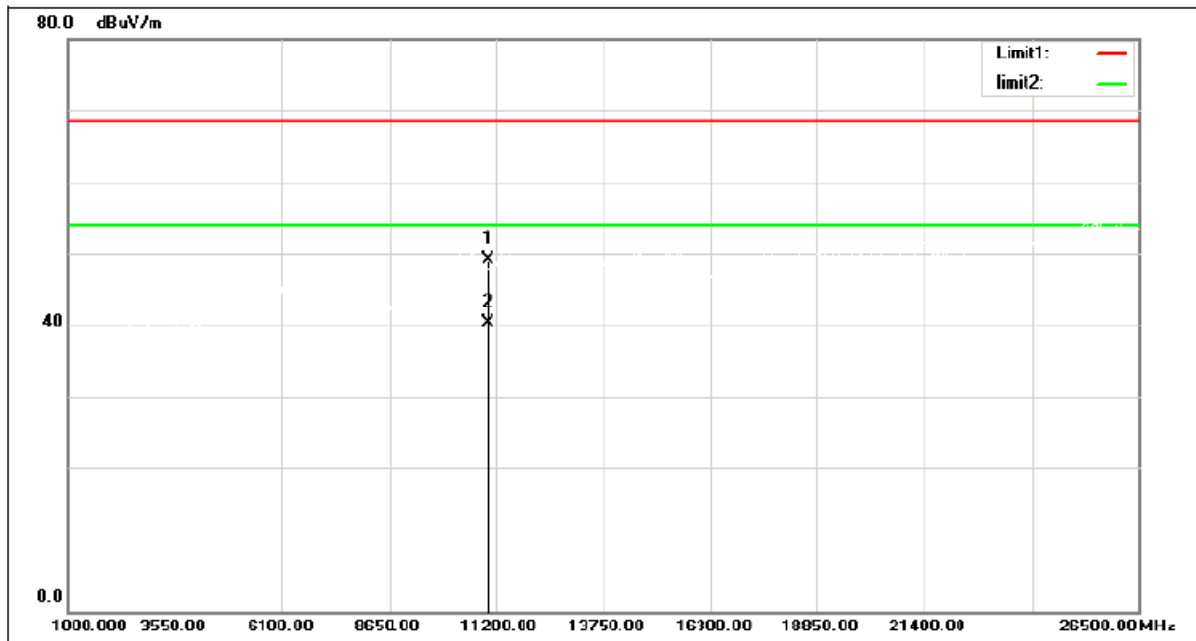
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 43.82               | 7.13                    | 50.95              | 68.30             | -17.35         | peak   |
| 2   | 10640.000          | 33.51               | 7.13                    | 40.64              | 54.00             | -13.36         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5500 MHz |

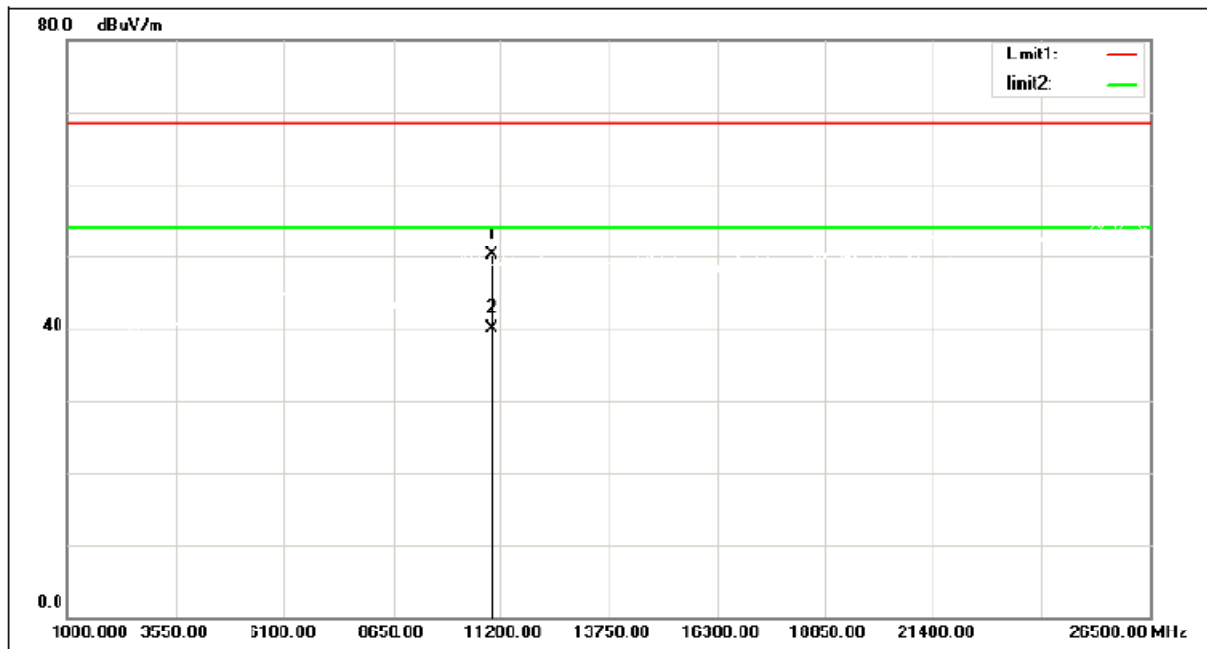
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 40.87               | 8.32                    | 49.19              | 68.30             | -19.11         | peak   |
| 2   | 11000.000          | 31.92               | 8.32                    | 40.24              | 54.00             | -13.76         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5500 MHz |

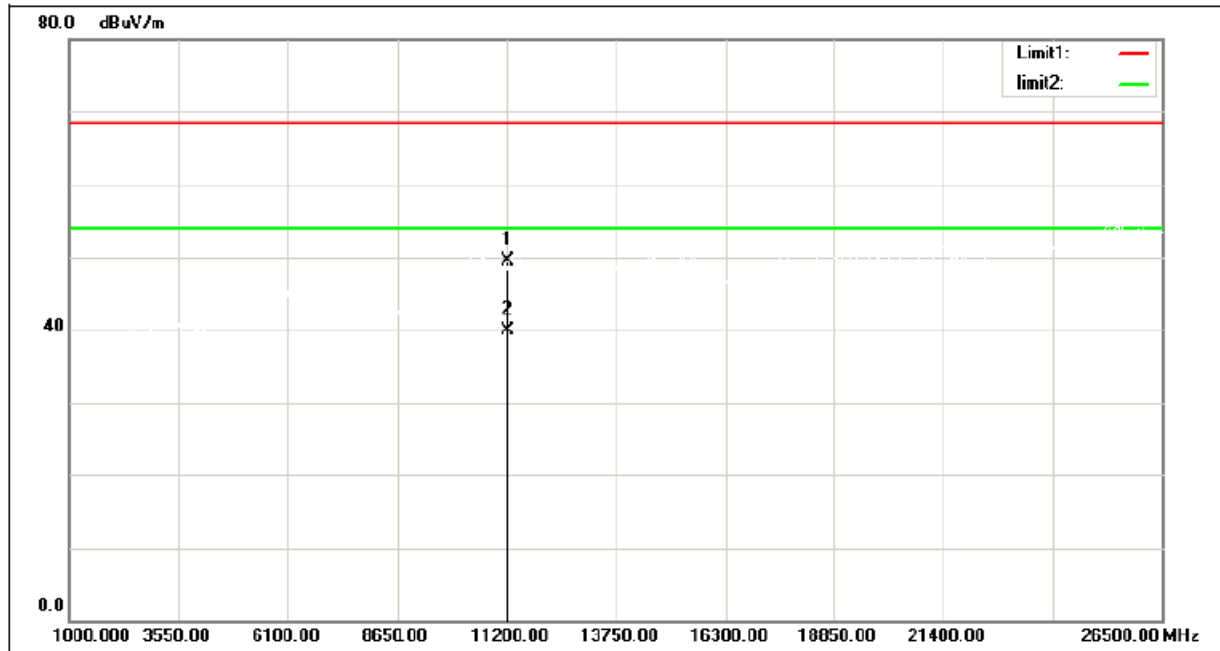
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 41.76               | 8.32                    | 50.08              | 68.30             | -18.22         | peak   |
| 2   | 11000.000          | 31.83               | 8.32                    | 40.15              | 54.00             | -13.85         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5600 MHz |

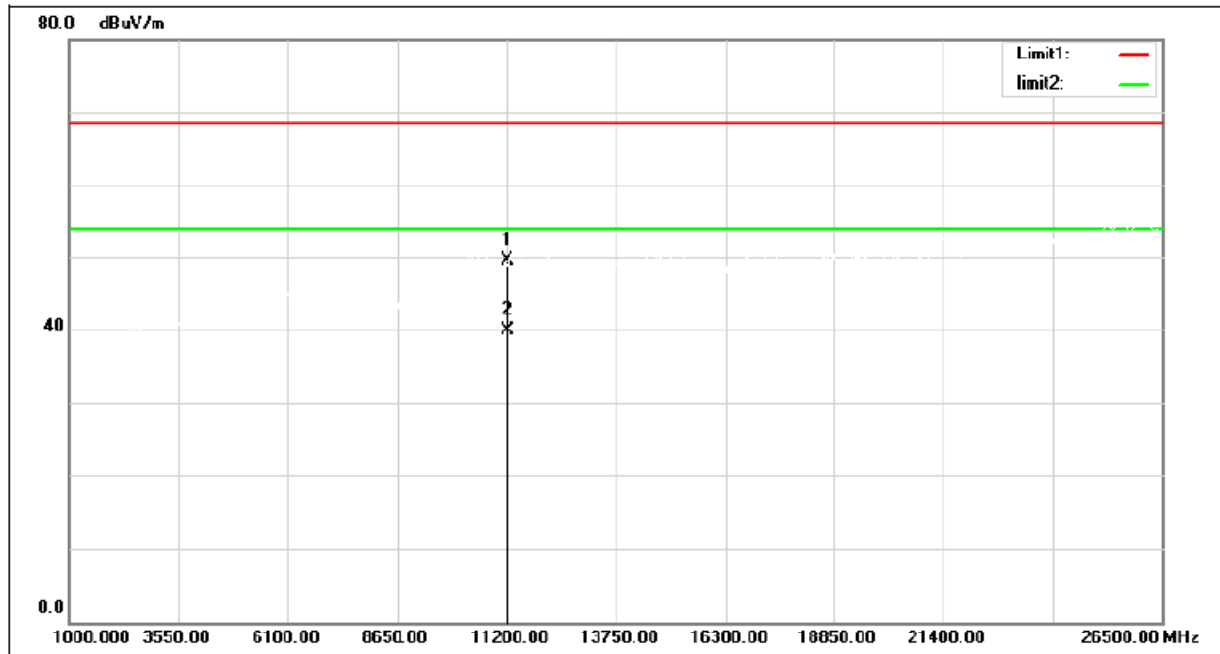
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.25               | 8.21                    | 49.46              | 68.30             | -18.84         | peak   |
| 2   | 11200.000          | 31.64               | 8.21                    | 39.85              | 54.00             | -14.15         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5600 MHz |

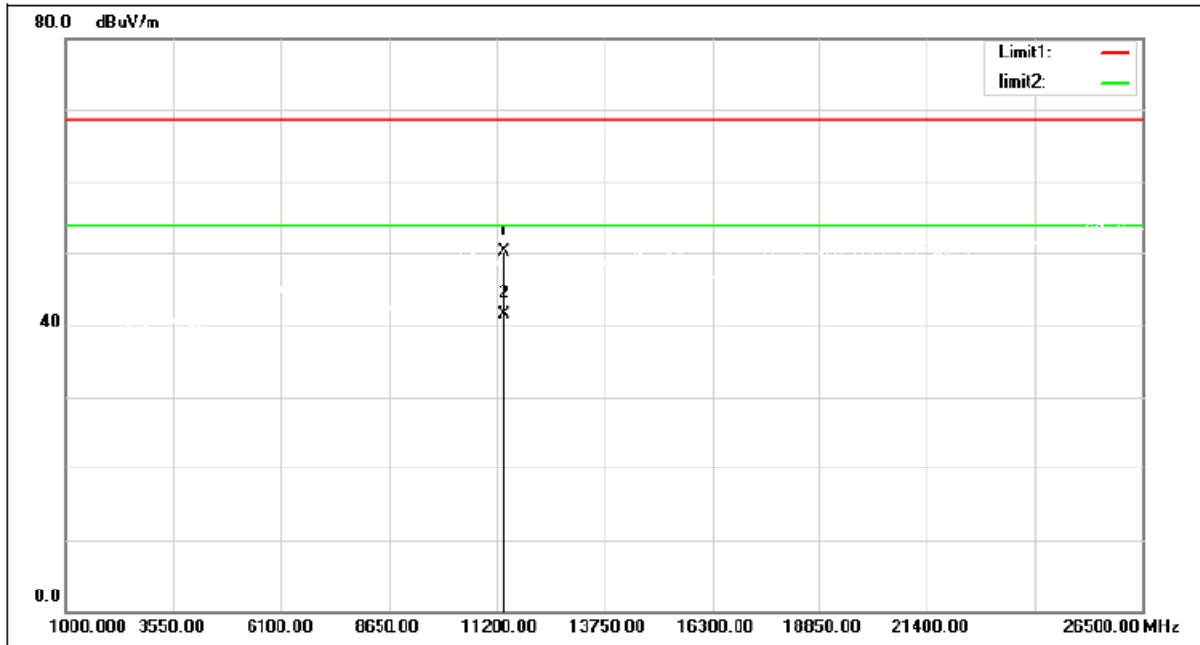
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.28               | 8.21                    | 49.49              | 68.30             | -18.81         | peak   |
| 2   | 11200.000          | 31.66               | 8.21                    | 39.87              | 54.00             | -14.13         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5700 MHz |

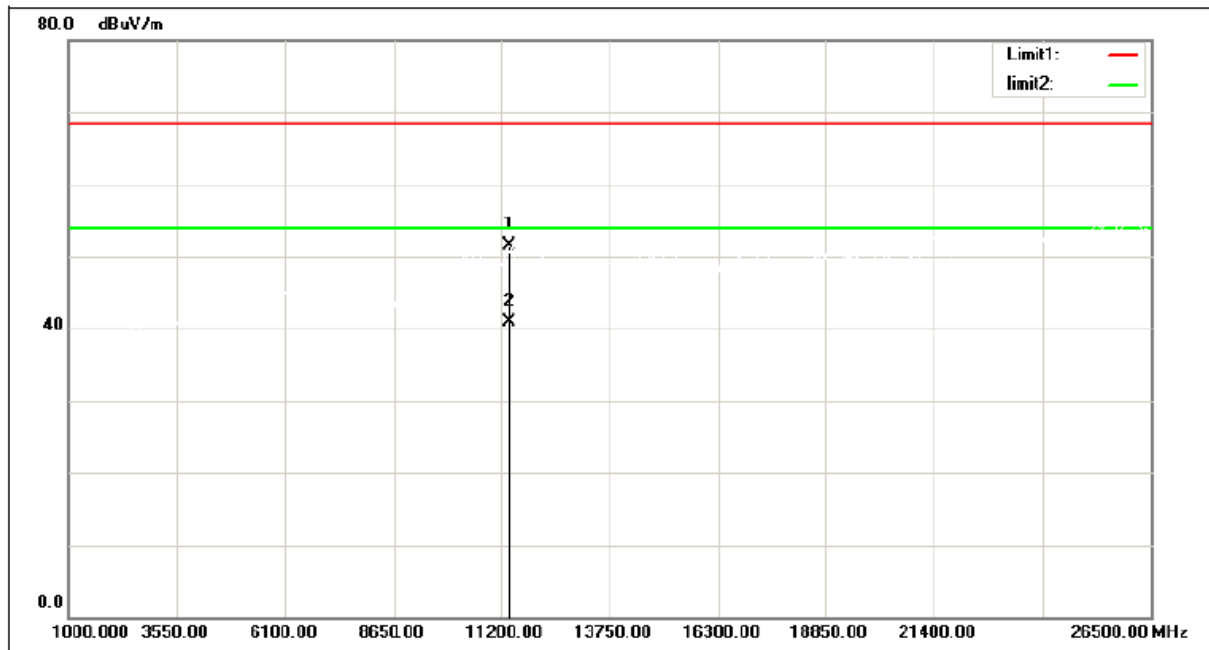
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 42.08               | 8.10                    | 50.18              | 68.30             | -18.12         | peak   |
| 2   | 11400.000          | 33.41               | 8.10                    | 41.51              | 54.00             | -12.49         | AVG    |

|                 |                            |
|-----------------|----------------------------|
| Orthogonal Axis | X                          |
| Test Mode       | UNII-2C_TX A Mode 5700 MHz |

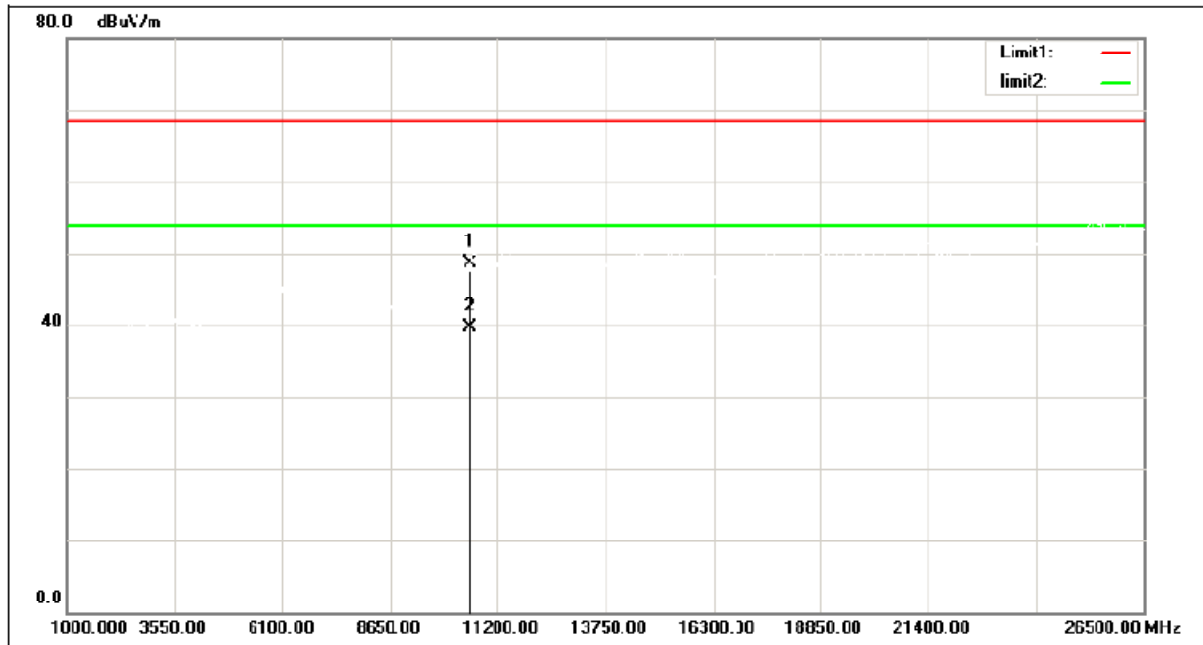
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 43.33               | 8.10                    | 51.43              | 68.30             | -16.87         | peak   |
| 2   | 11400.000          | 32.89               | 8.10                    | 40.99              | 54.00             | -13.01         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5260 MHz |

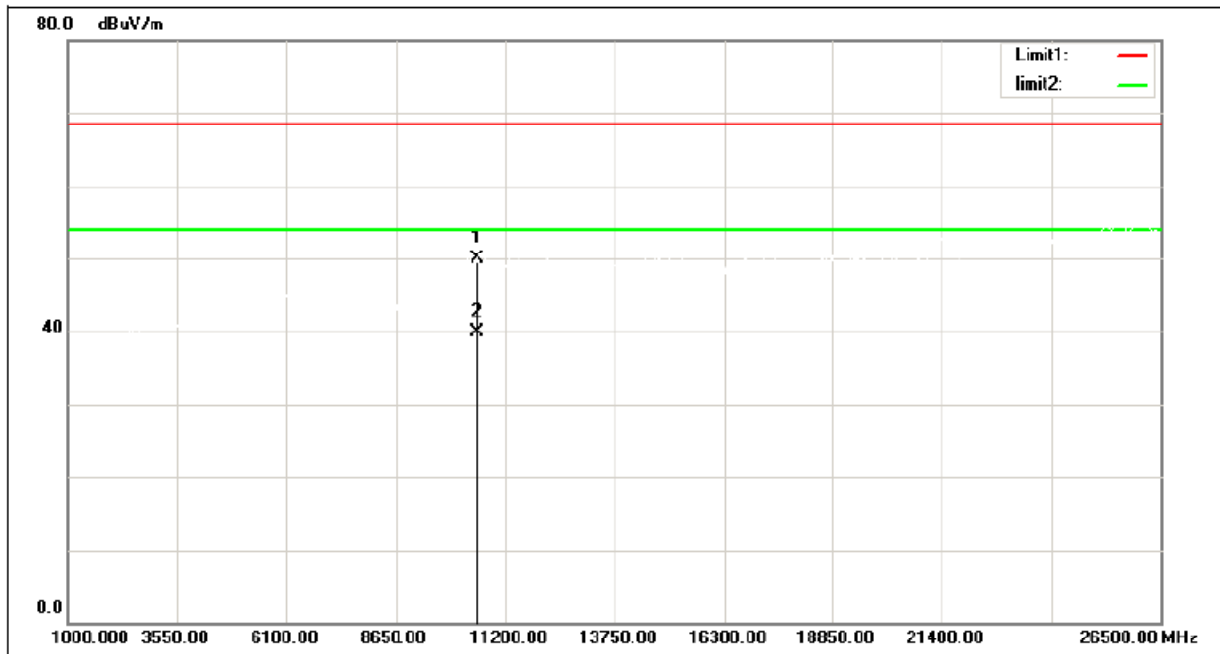
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 41.87               | 6.74                    | 48.61              | 68.30             | -19.69         | peak   |
| 2   | 10520.000          | 32.99               | 6.74                    | 39.73              | 54.00             | -14.27         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5260 MHz |

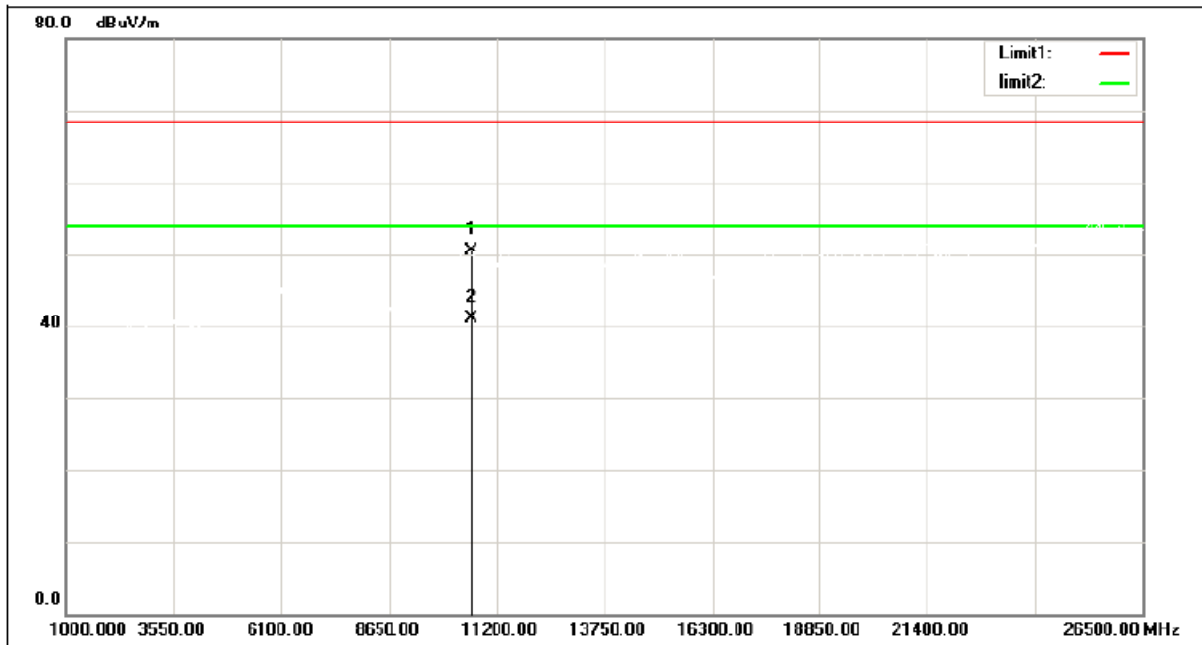
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 43.25               | 6.74                    | 49.99              | 68.30             | -18.31         | peak   |
| 2   | 10520.000          | 33.14               | 6.74                    | 39.88              | 54.00             | -14.12         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5300 MHz |

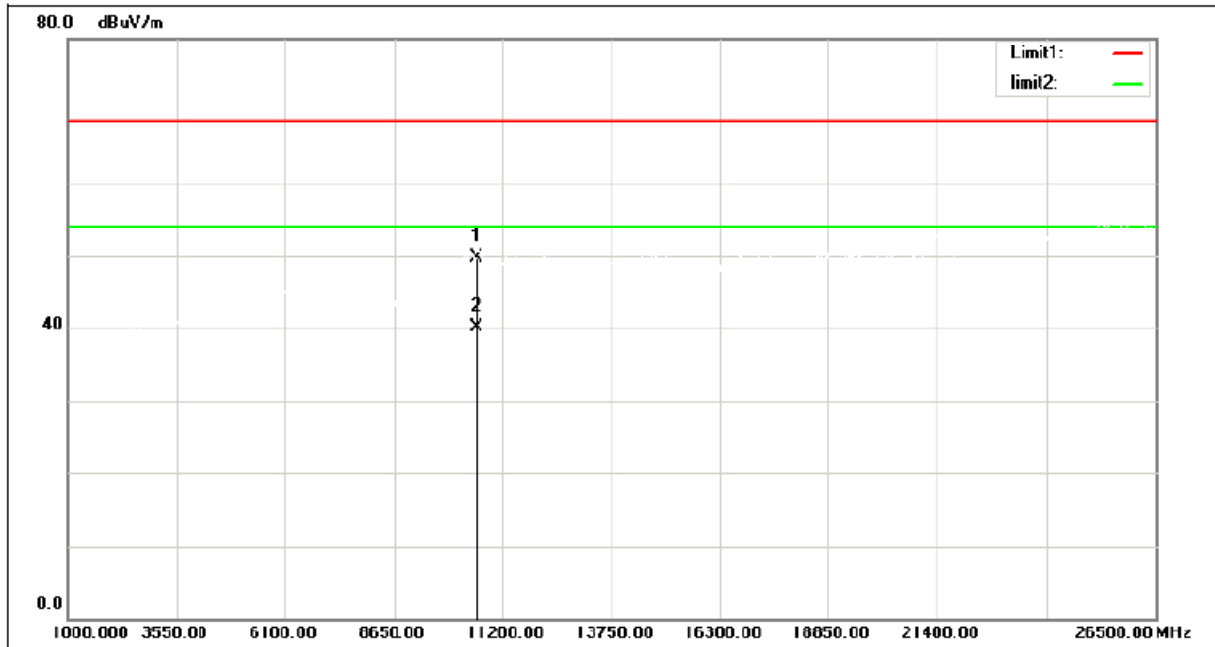
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 43.55               | 7.00                    | 50.55              | 68.30             | -17.75         | peak   |
| 2   | 10600.000          | 34.02               | 7.00                    | 41.02              | 54.00             | -12.98         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5300 MHz |

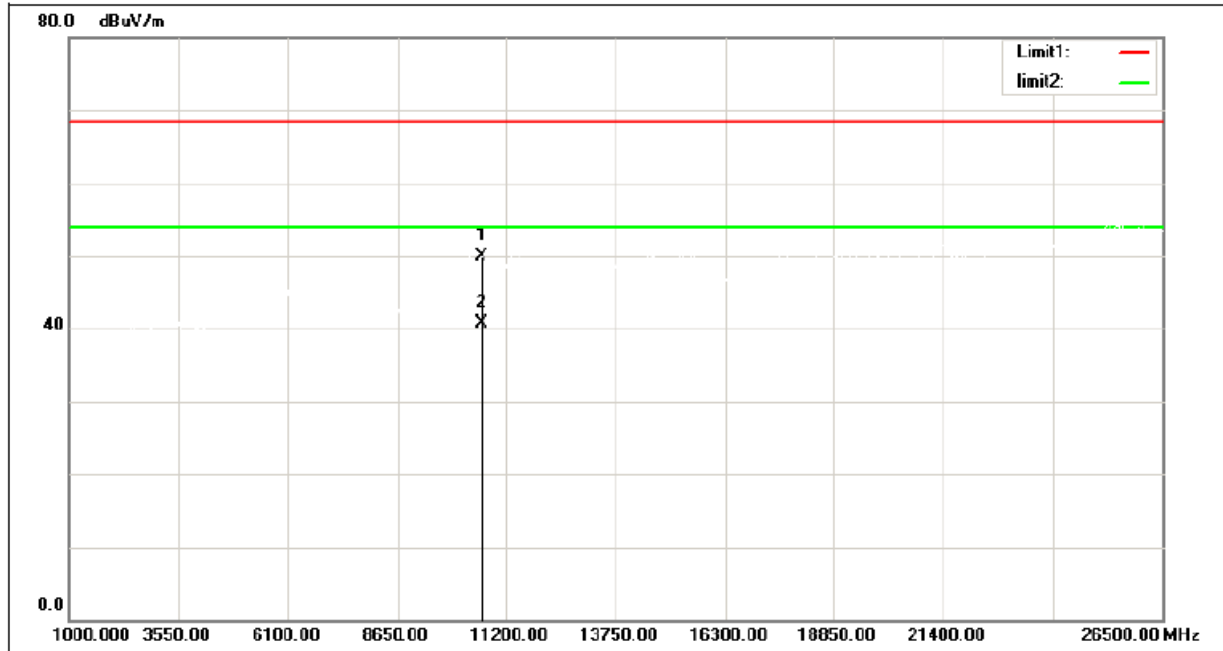
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 42.64               | 7.00                    | 49.64              | 68.30             | -18.66         | peak   |
| 2   | 10600.000          | 33.03               | 7.00                    | 40.03              | 54.00             | -13.97         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5320 MHz |

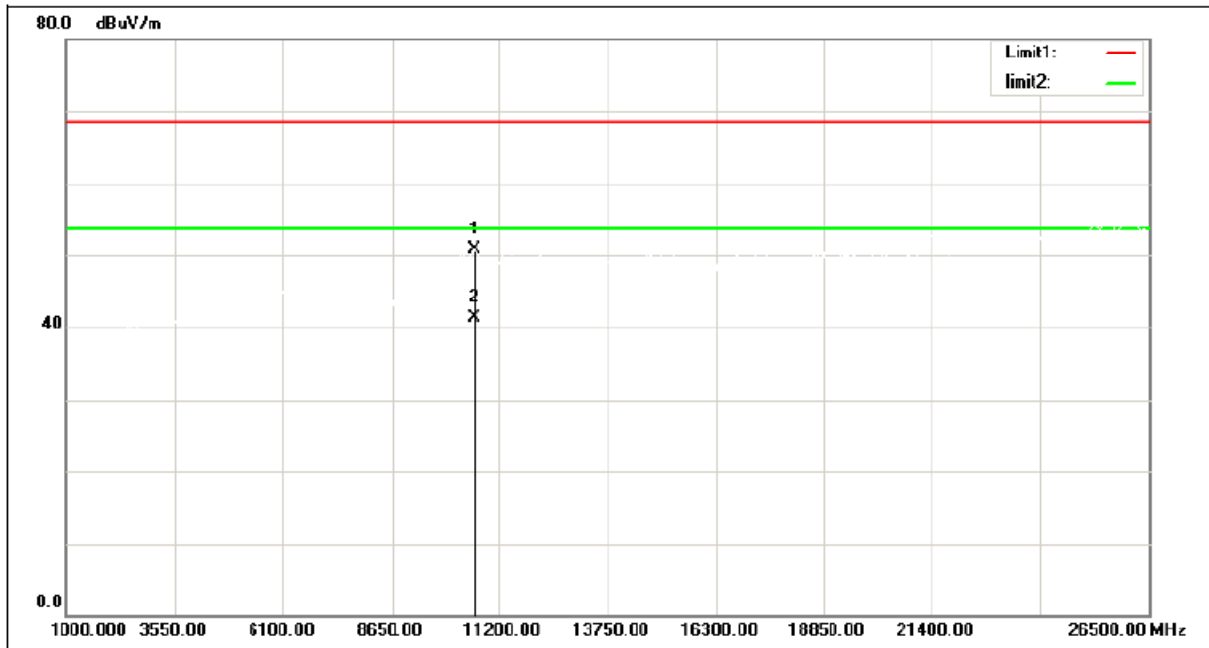
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 42.87               | 7.13                    | 50.00              | 68.30             | -18.30         | peak   |
| 2   | 10640.000          | 33.54               | 7.13                    | 40.67              | 54.00             | -13.33         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT20) Mode 5320 MHz |

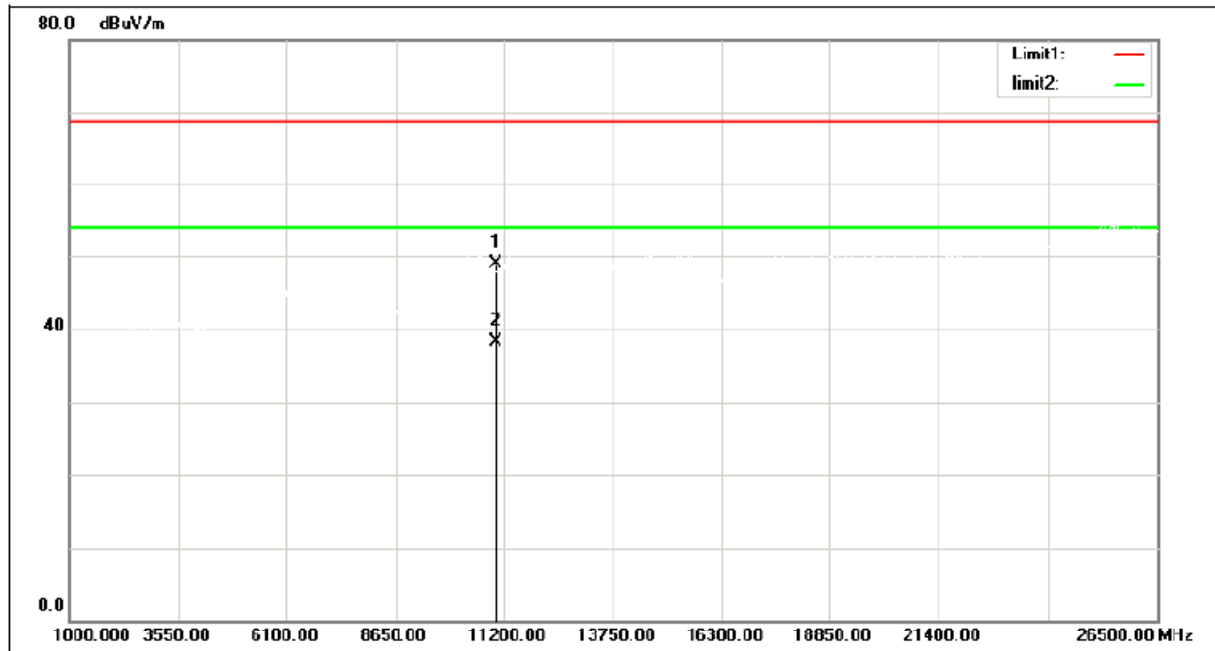
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 43.58               | 7.13                    | 50.71              | 68.30             | -17.59         | peak   |
| 2   | 10640.000          | 34.22               | 7.13                    | 41.35              | 54.00             | -12.65         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5500 MHz |

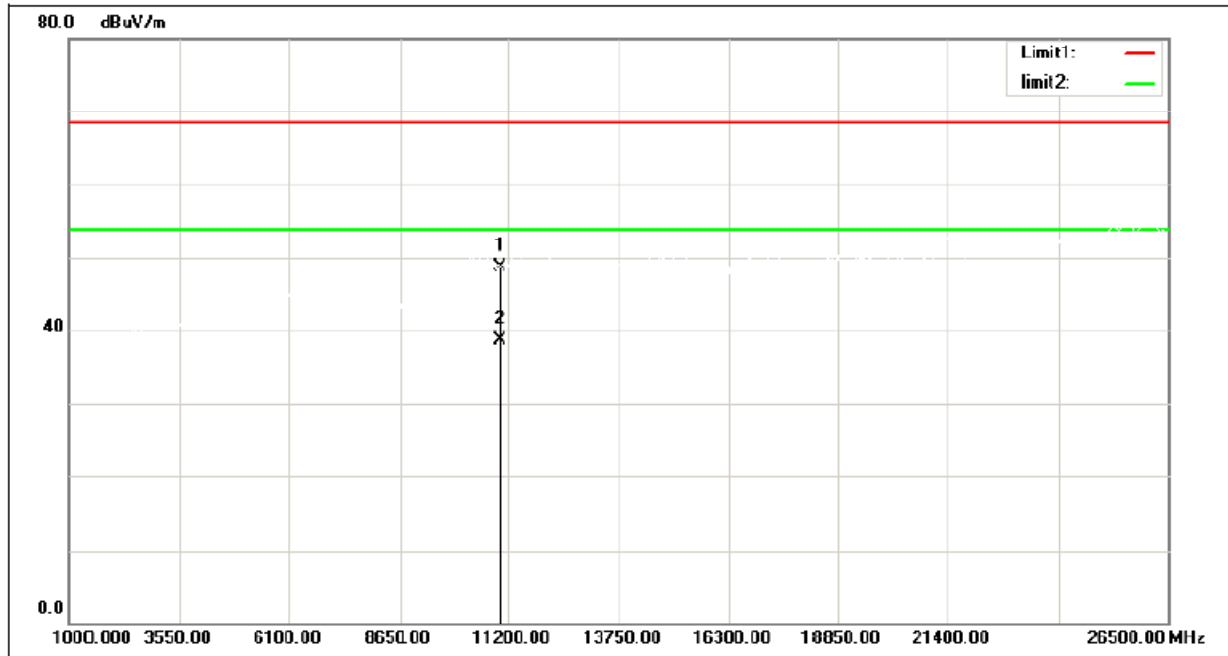
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 40.51               | 8.32                    | 48.83              | 68.30             | -19.47         | peak   |
| 2   | 11000.000          | 29.89               | 8.32                    | 38.21              | 54.00             | -15.79         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5500 MHz |

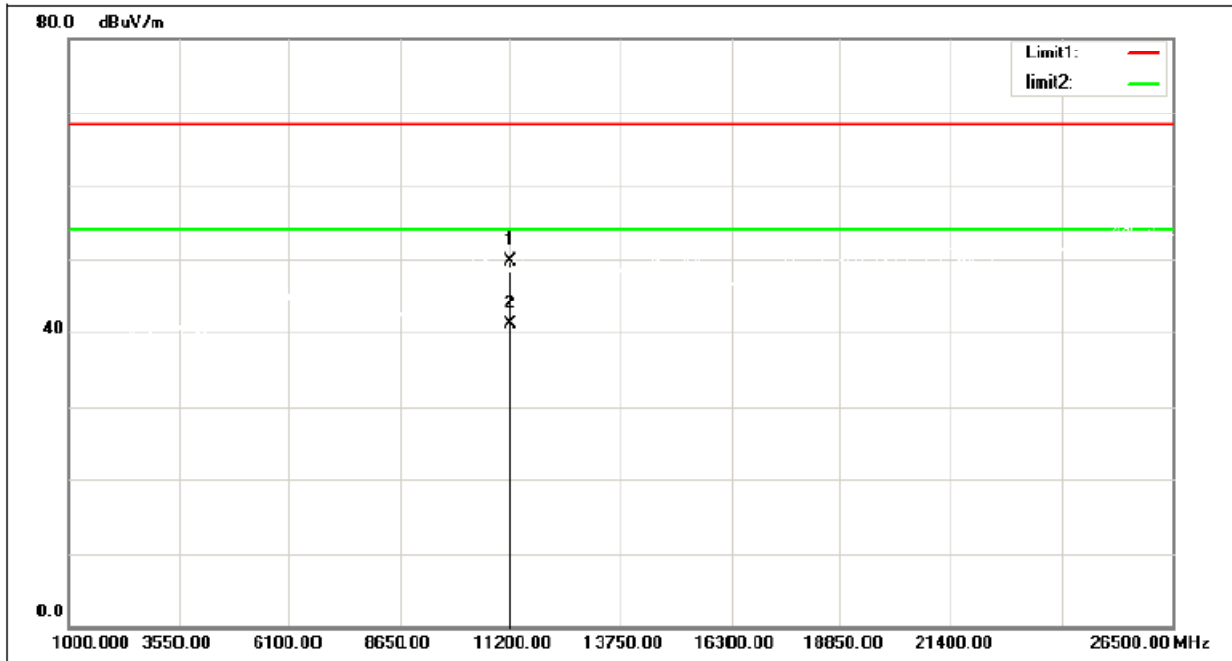
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 40.35               | 8.32                    | 48.67              | 68.30             | -19.63         | peak   |
| 2   | 11000.000          | 30.46               | 8.32                    | 38.78              | 54.00             | -15.22         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5600 MHz |

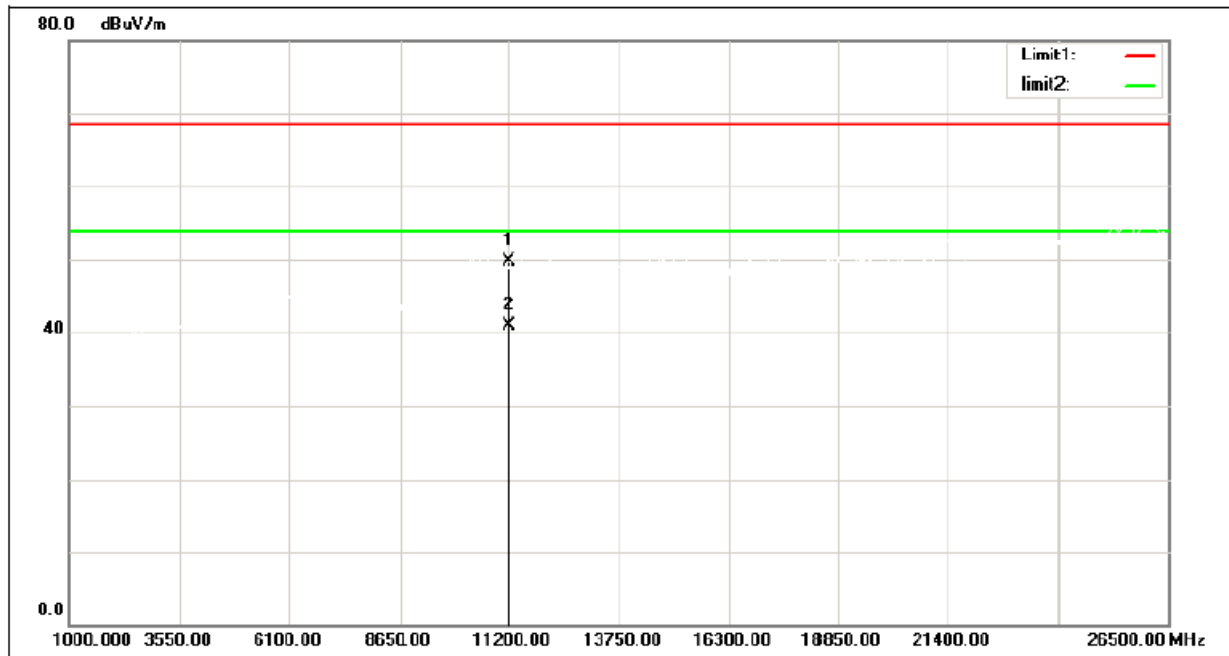
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.43               | 8.21                    | 49.64              | 68.30             | -18.66         | peak   |
| 2   | 11200.000          | 32.88               | 8.21                    | 41.09              | 54.00             | -12.91         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5600 MHz |

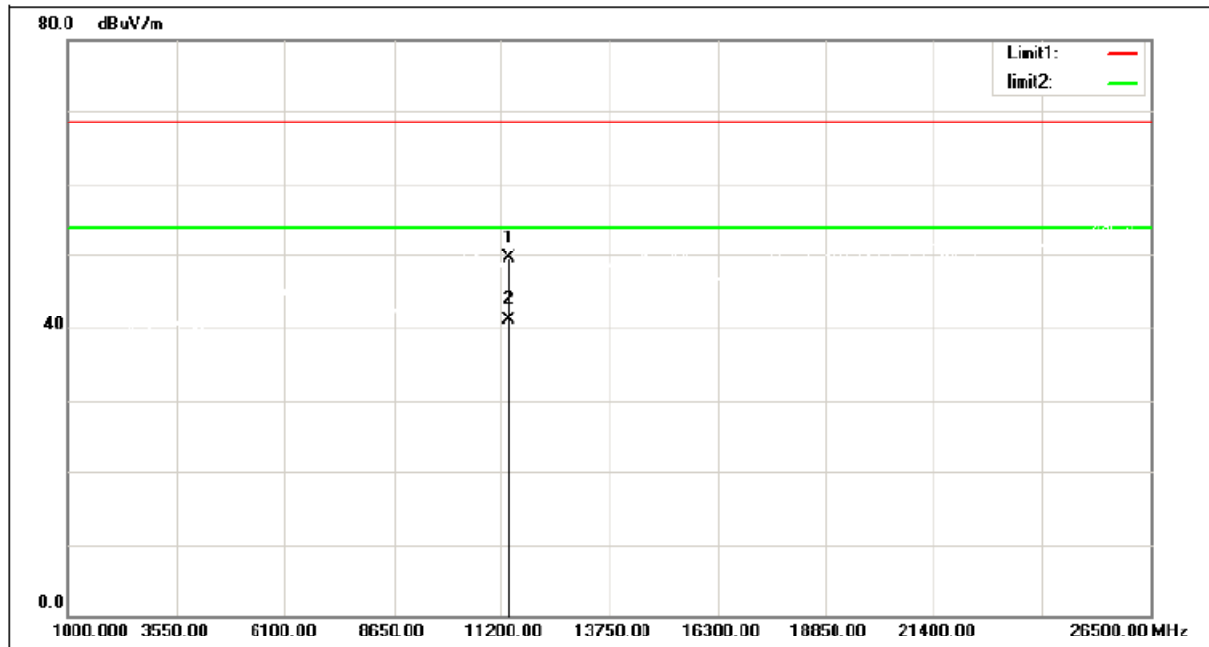
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.55               | 8.21                    | 49.76              | 68.30             | -18.54         | peak   |
| 2   | 11200.000          | 32.64               | 8.21                    | 40.85              | 54.00             | -13.15         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5700 MHz |

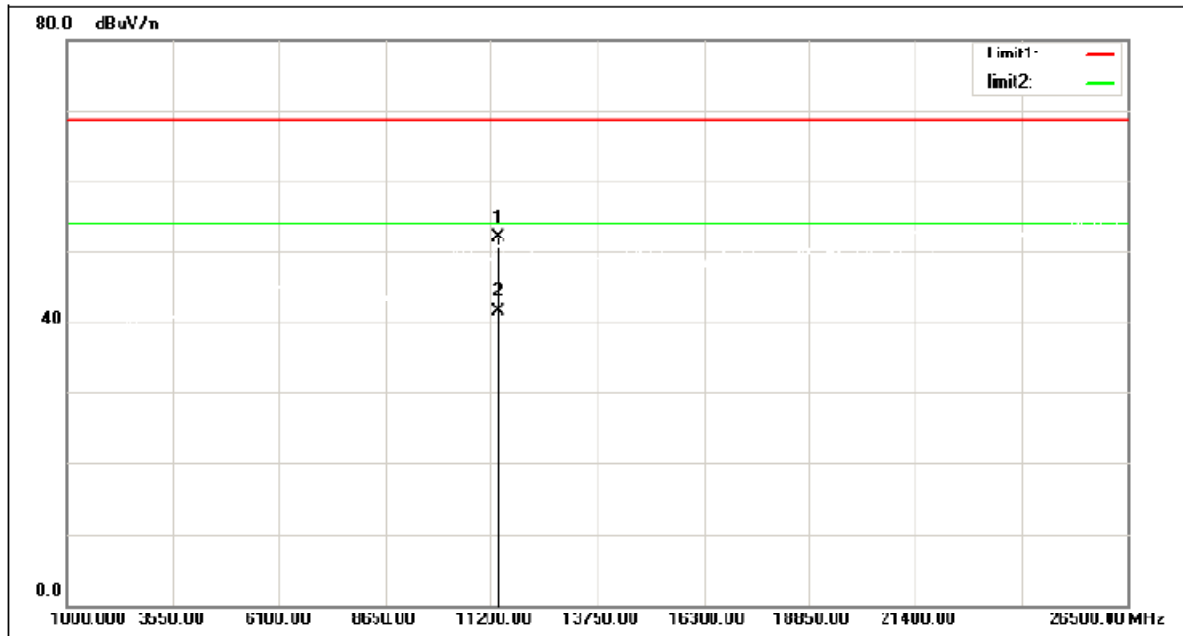
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 41.47               | 8.10                    | 49.57              | 68.30             | -18.73         | peak   |
| 2   | 11400.000          | 33.04               | 8.10                    | 41.14              | 54.00             | -12.86         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT20) Mode 5700 MHz |

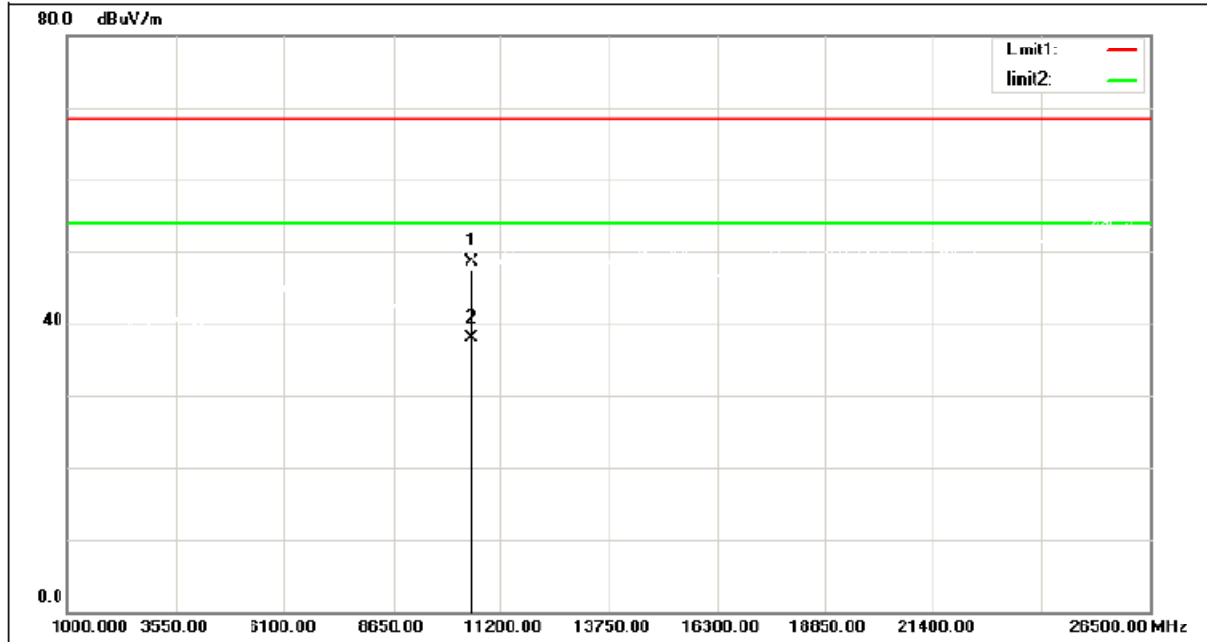
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 43.82               | 8.10                    | 51.92              | 68.30             | -16.38         | peak   |
| 2   | 11400.000          | 33.41               | 8.10                    | 41.51              | 54.00             | -12.49         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5270 MHz |

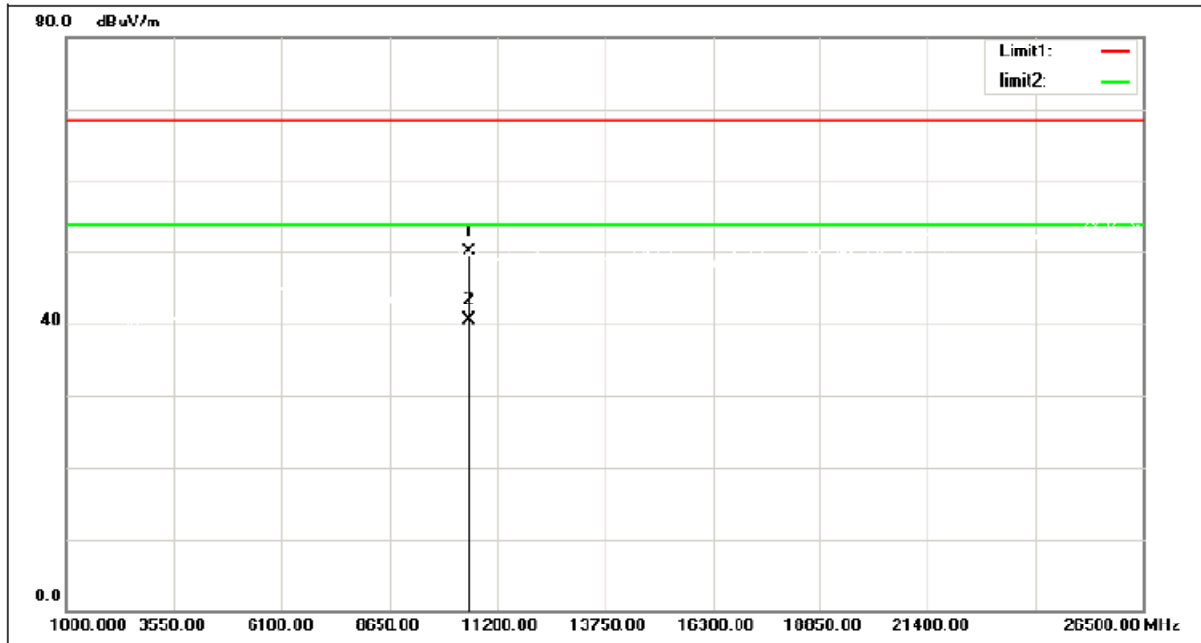
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10540.000          | 41.74               | 6.80                    | 48.54              | 68.30             | -19.76         | peak   |
| 2   | 10540.000          | 31.06               | 6.80                    | 37.86              | 54.00             | -16.14         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5270 MHz |

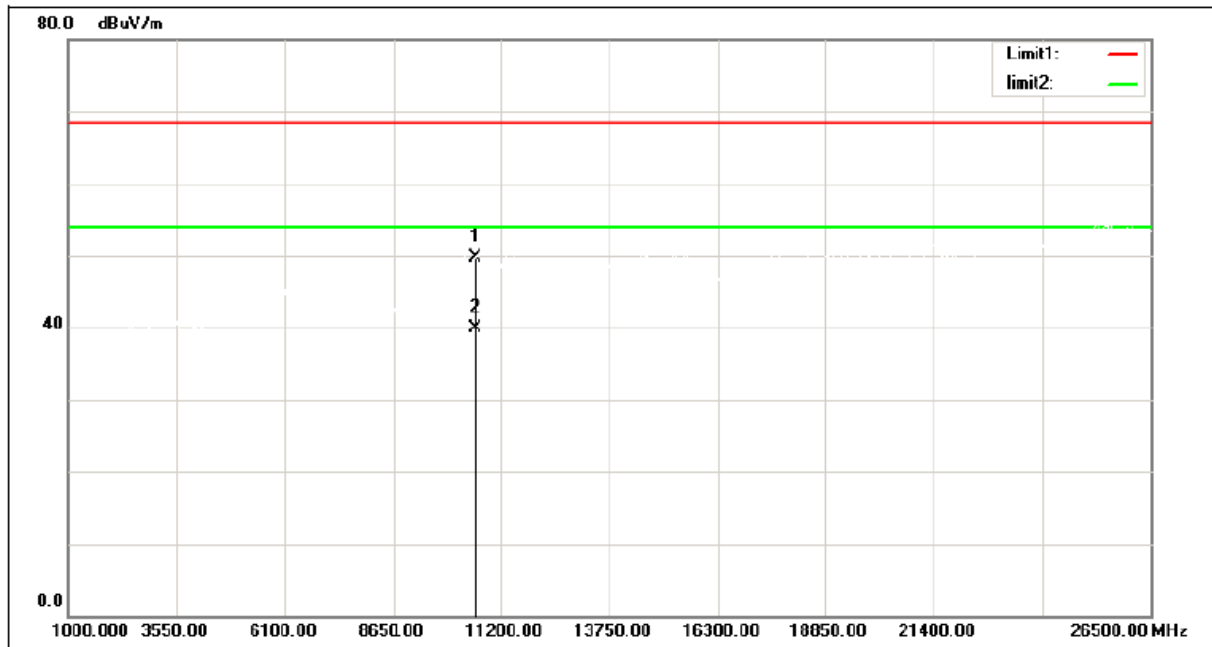
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10540.000          | 43.28               | 6.80                    | 50.08              | 68.30             | -18.22         | peak   |
| 2   | 10540.000          | 33.61               | 6.80                    | 40.41              | 54.00             | -13.59         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5310 MHz |

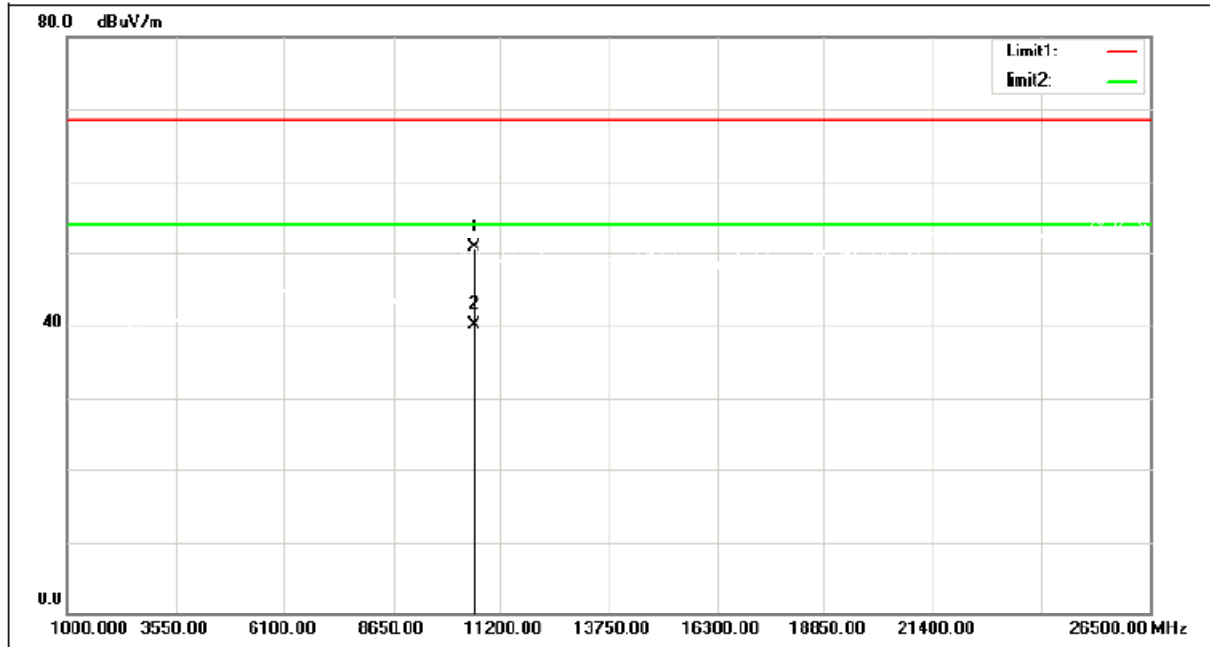
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10620.000          | 42.56               | 7.07                    | 49.63              | 68.30             | -18.67         | peak   |
| 2   | 10620.000          | 32.88               | 7.07                    | 39.95              | 54.00             | -14.05         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2A_TX N (HT40) Mode 5310 MHz |

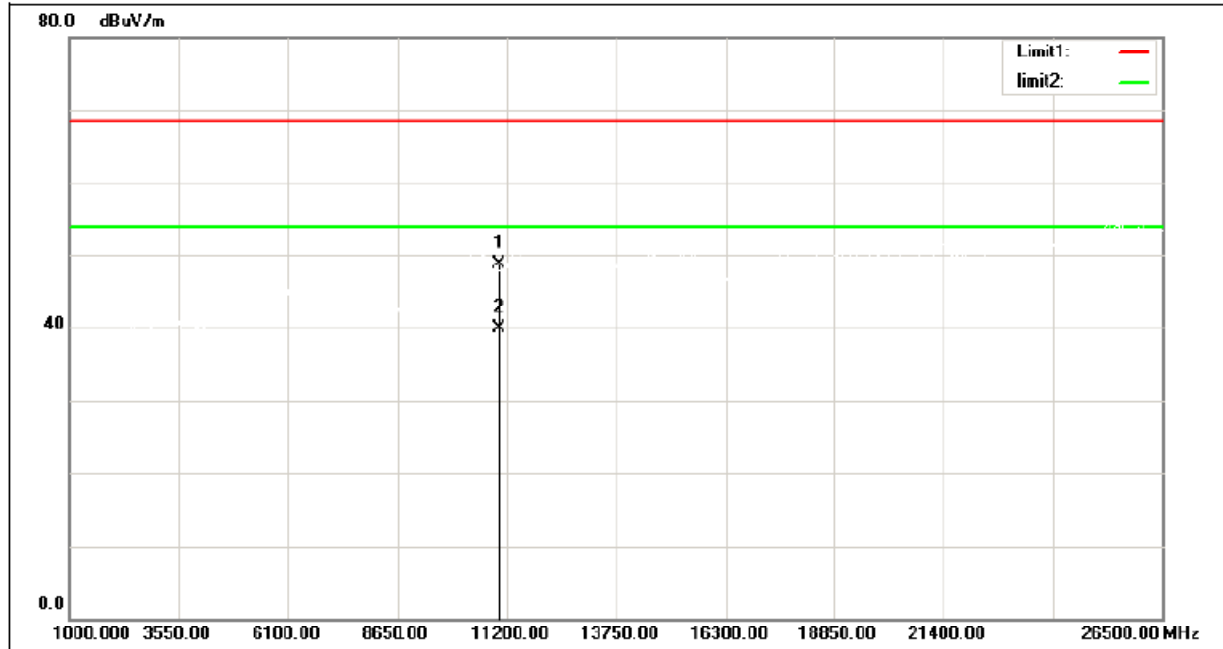
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10620.000          | 43.55               | 7.07                    | 50.62              | 68.30             | -17.68         | peak   |
| 2   | 10620.000          | 33.12               | 7.07                    | 40.19              | 54.00             | -13.81         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5510 MHz |

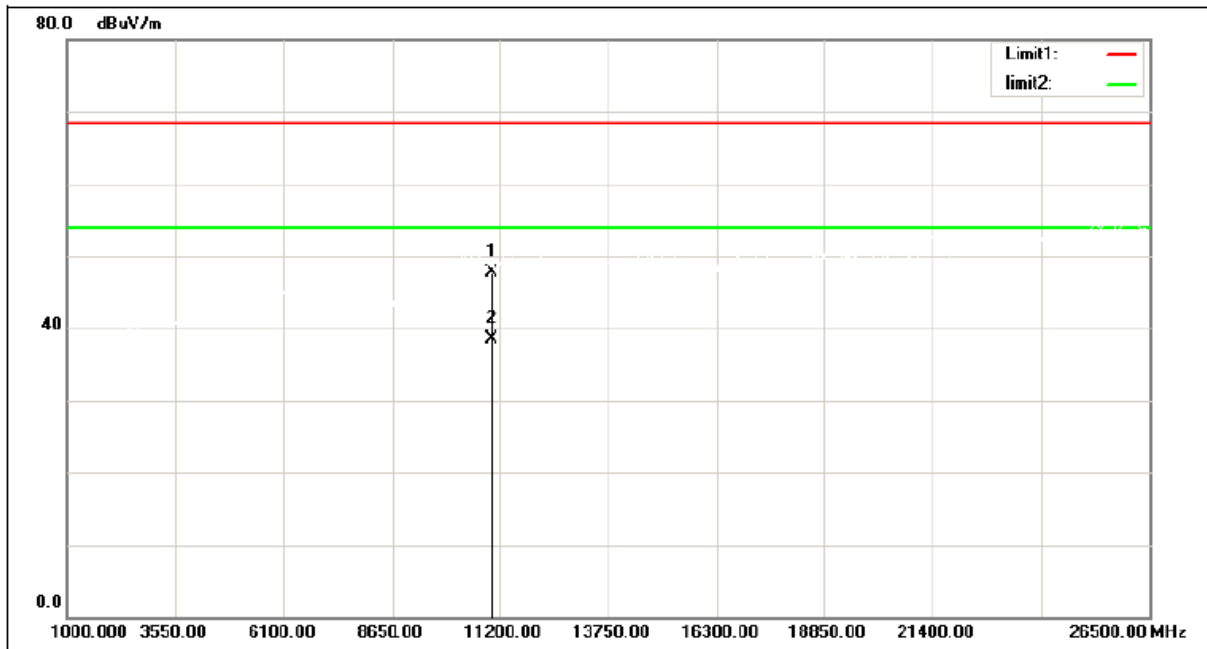
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11020.000          | 40.33               | 8.30                    | 48.63              | 68.30             | -19.67         | peak   |
| 2   | 11020.000          | 31.59               | 8.30                    | 39.89              | 54.00             | -14.11         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5510 MHz |

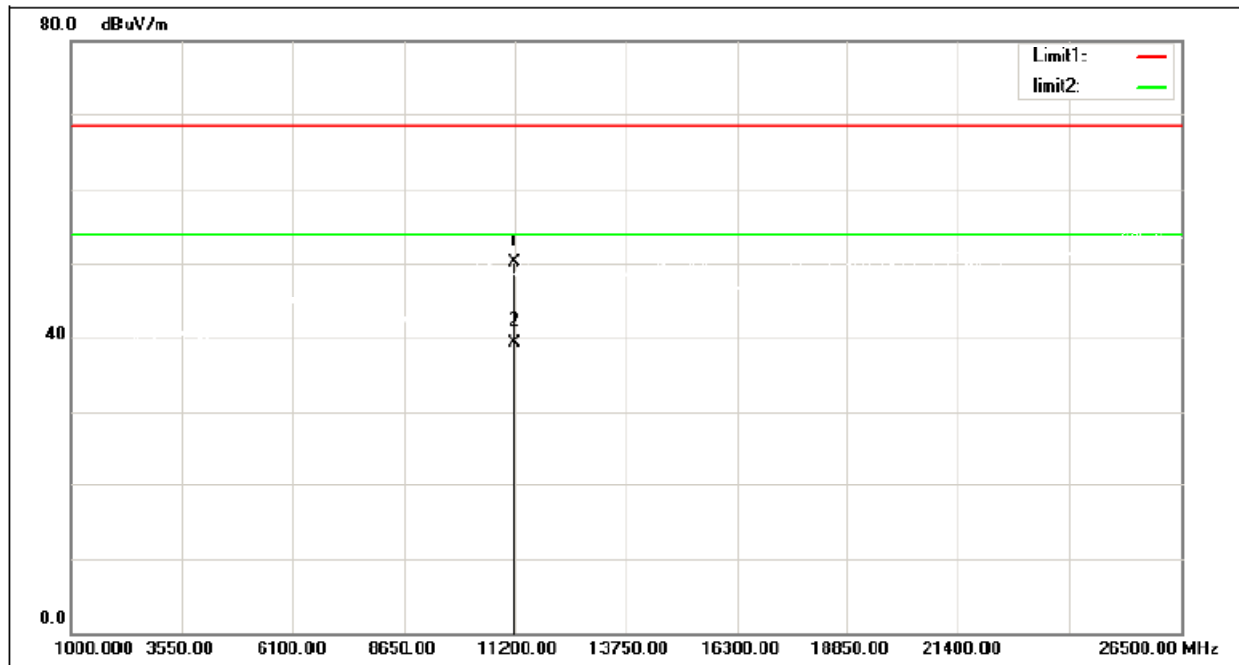
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11020.000          | 39.46               | 8.30                    | 47.76              | 68.30             | -20.54         | peak   |
| 2   | 11020.000          | 30.11               | 8.30                    | 38.41              | 54.00             | -15.59         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5590 MHz |

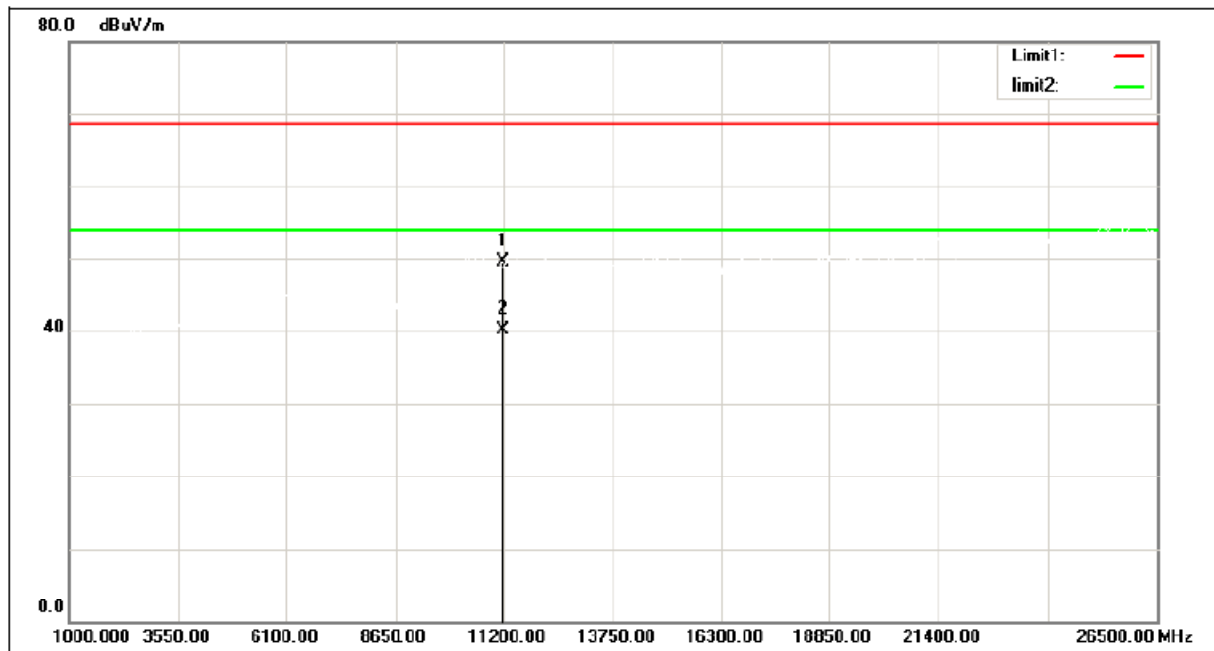
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11180.000          | 41.83               | 8.23                    | 50.06              | 68.30             | -18.24         | peak   |
| 2   | 11180.000          | 31.00               | 8.23                    | 39.23              | 54.00             | -14.77         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5590 MHz |

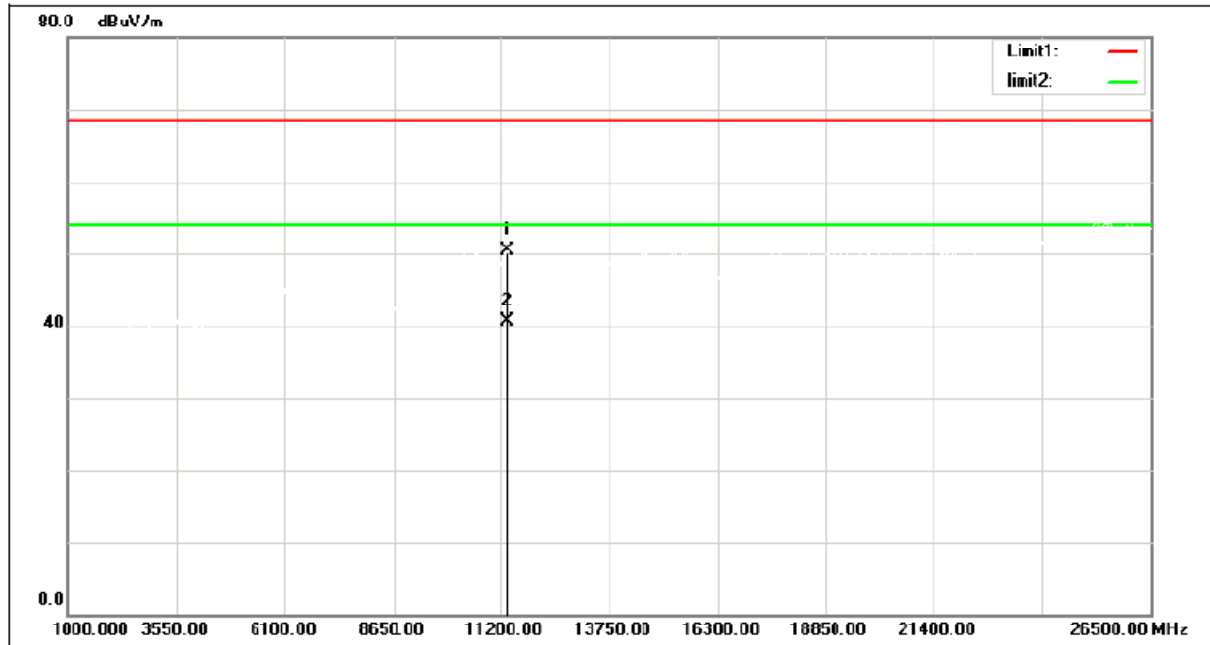
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11180.000          | 41.35               | 8.23                    | 49.58              | 68.30             | -18.72         | peak   |
| 2   | 11180.000          | 31.84               | 8.23                    | 40.07              | 54.00             | -13.93         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5670 MHz |

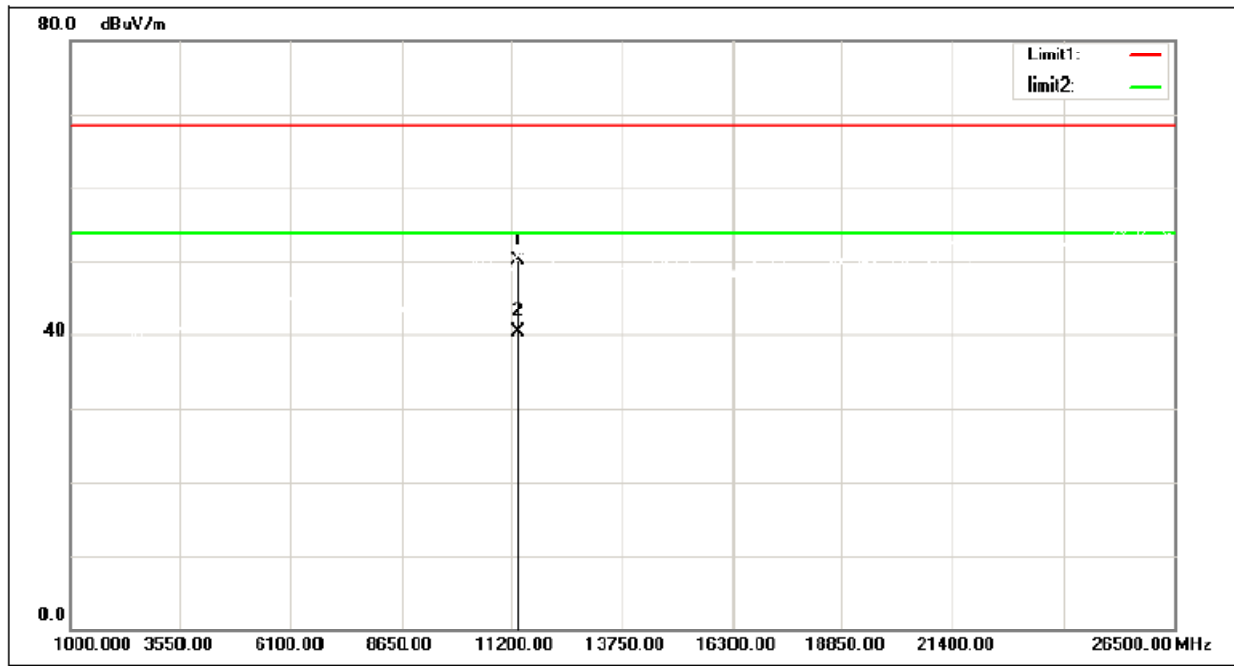
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11340.000          | 42.15               | 8.14                    | 50.29              | 68.30             | -18.01         | peak   |
| 2   | 11340.000          | 32.63               | 8.14                    | 40.77              | 54.00             | -13.23         | AVG    |

|                 |                                   |
|-----------------|-----------------------------------|
| Orthogonal Axis | X                                 |
| Test Mode       | UNII-2C_TX N (HT40) Mode 5670 MHz |

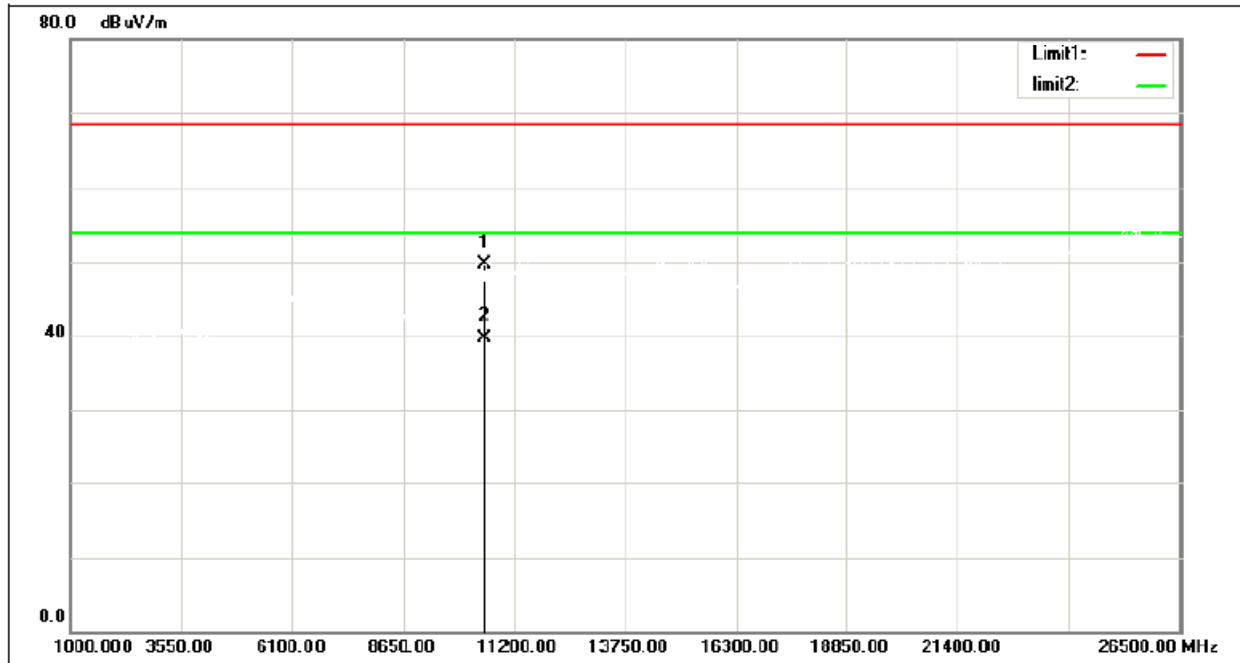
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11340.000          | 42.01               | 8.14                    | 50.15              | 68.30             | -18.15         | peak   |
| 2   | 11340.000          | 32.22               | 8.14                    | 40.36              | 54.00             | -13.64         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5260 MHz |

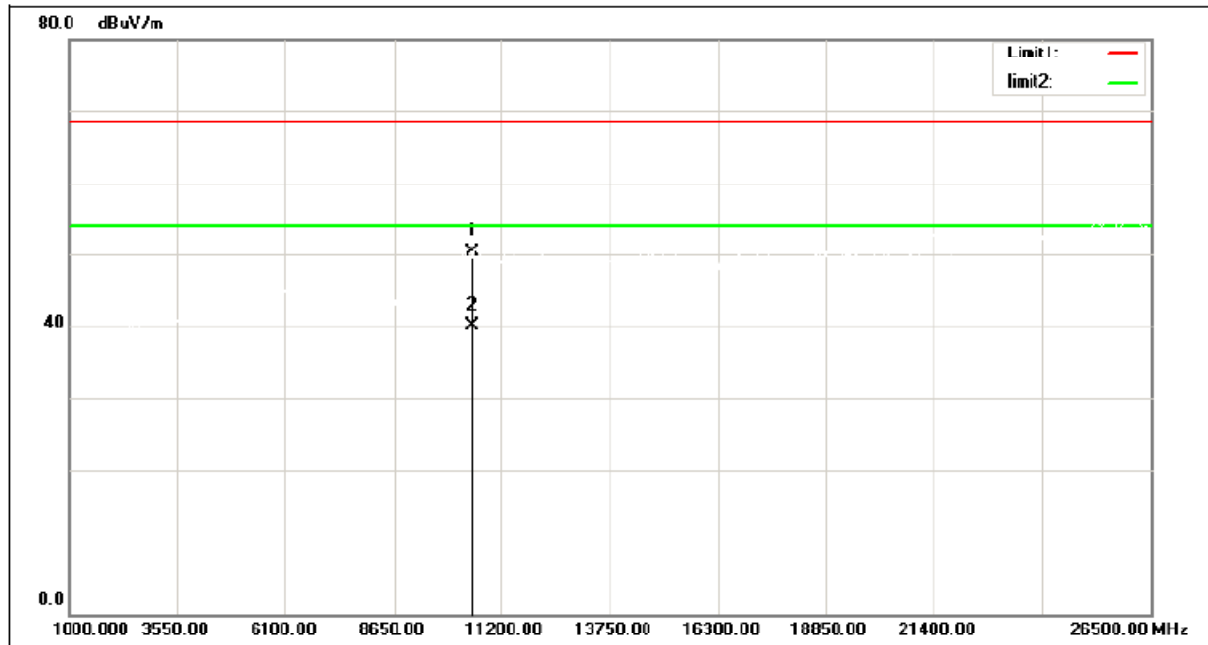
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 43.02               | 6.74                    | 49.76              | 68.30             | -18.54         | peak   |
| 2   | 10520.000          | 32.97               | 6.74                    | 39.71              | 54.00             | -14.29         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5260 MHz |

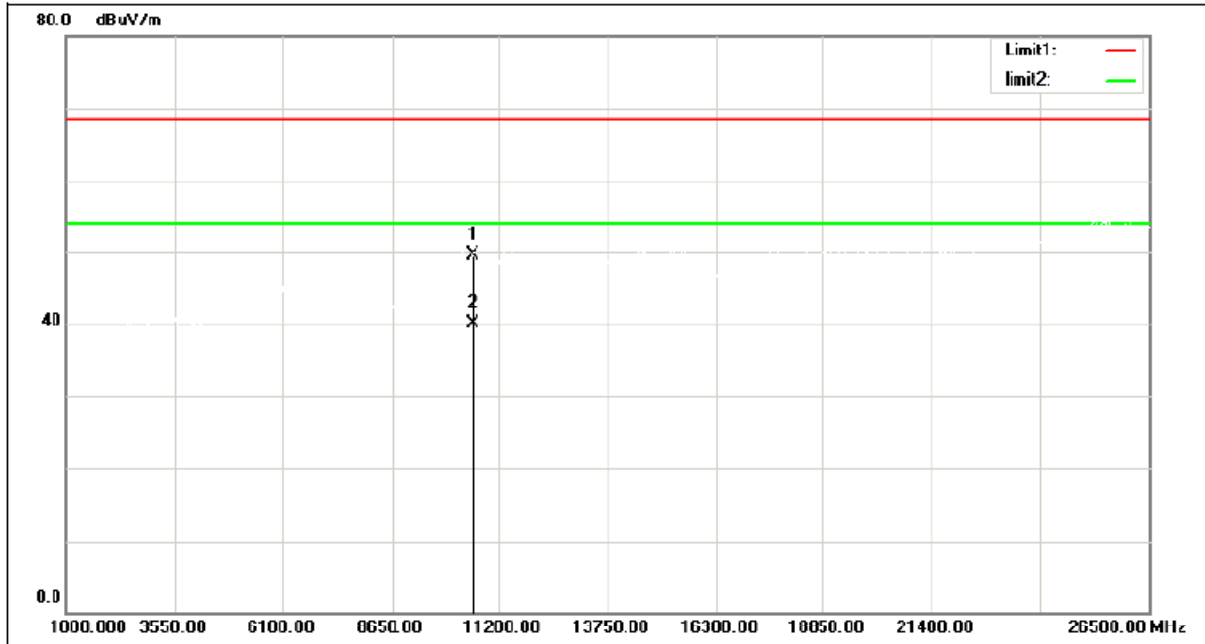
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10520.000          | 43.55               | 6.74                    | 50.29              | 68.30             | -18.01         | peak   |
| 2   | 10520.000          | 33.46               | 6.74                    | 40.20              | 54.00             | -13.80         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5300 MHz |

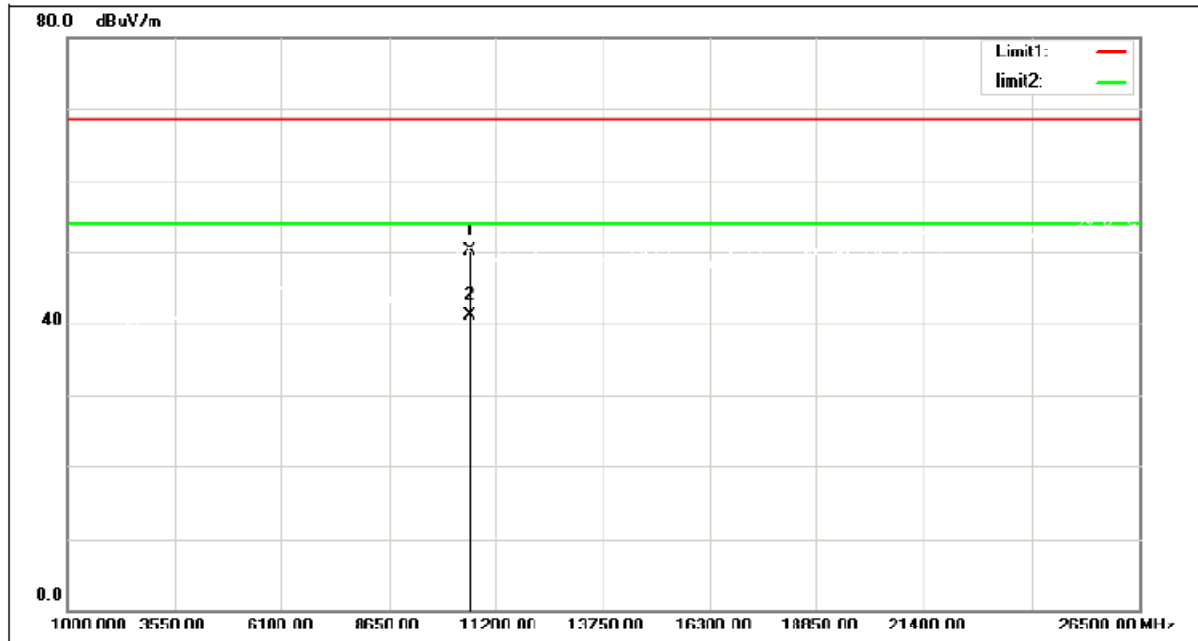
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 42.41               | 7.00                    | 49.41              | 68.30             | -18.89         | peak   |
| 2   | 10600.000          | 33.01               | 7.00                    | 40.01              | 54.00             | -13.99         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5300 MHz |

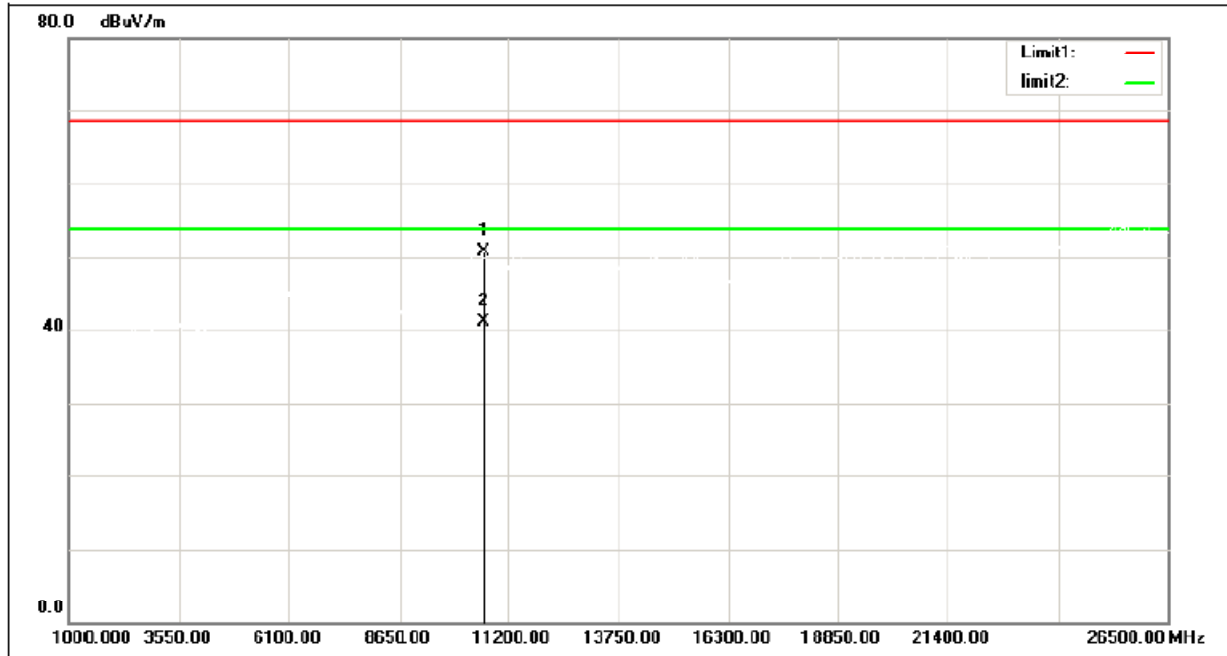
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10600.000          | 43.09               | 7.00                    | 50.09              | 68.30             | -18.21         | peak   |
| 2   | 10600.000          | 34.16               | 7.00                    | 41.16              | 54.00             | -12.84         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5320 MHz |

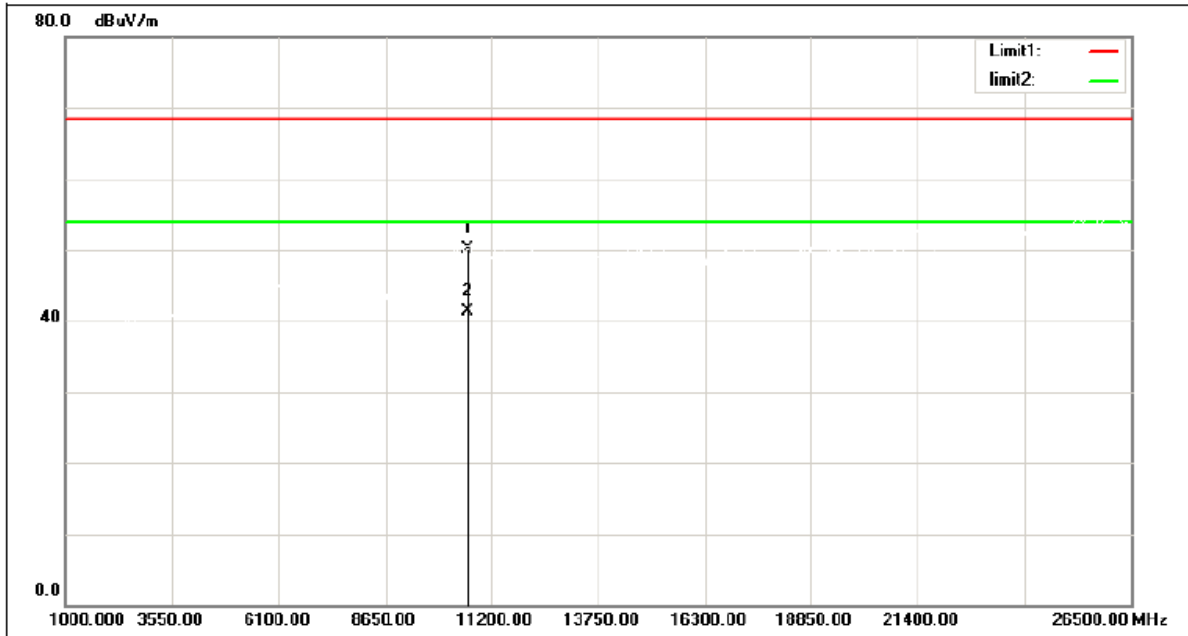
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 43.54               | 7.13                    | 50.67              | 68.30             | -17.63         | peak   |
| 2   | 10640.000          | 34.00               | 7.13                    | 41.13              | 54.00             | -12.87         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT20) Mode 5320 MHz |

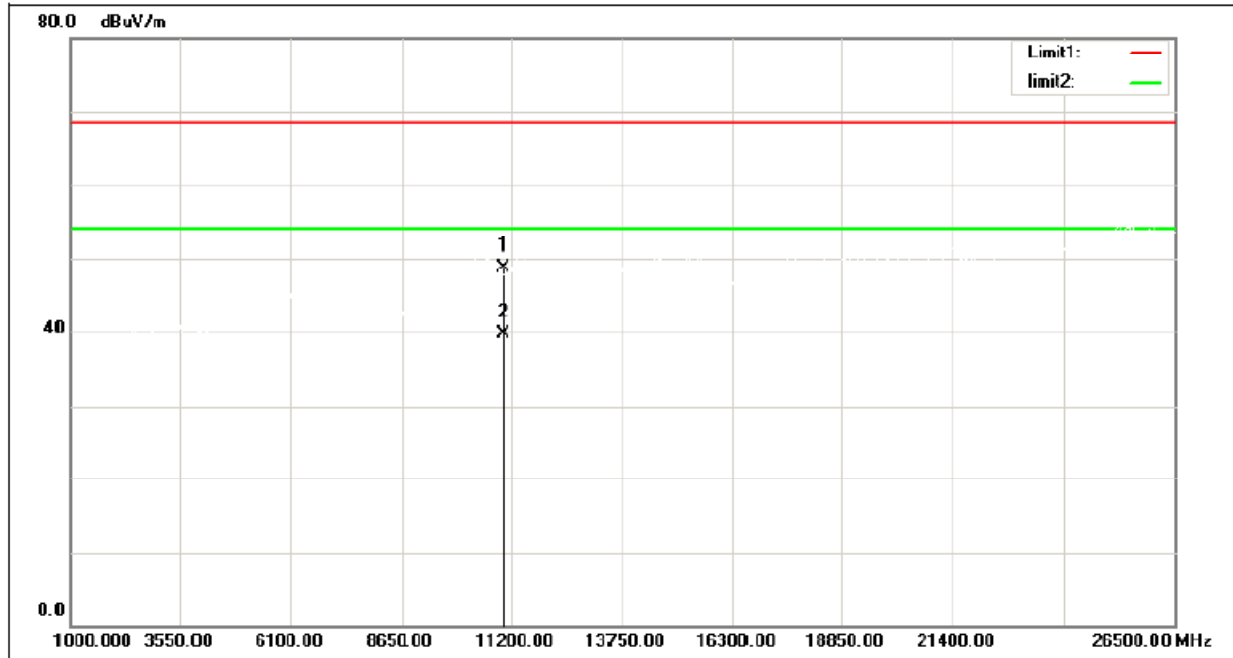
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10640.000          | 43.05               | 7.13                    | 50.18              | 68.30             | -18.12         | peak   |
| 2   | 10640.000          | 34.18               | 7.13                    | 41.31              | 54.00             | -12.69         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5500 MHz |

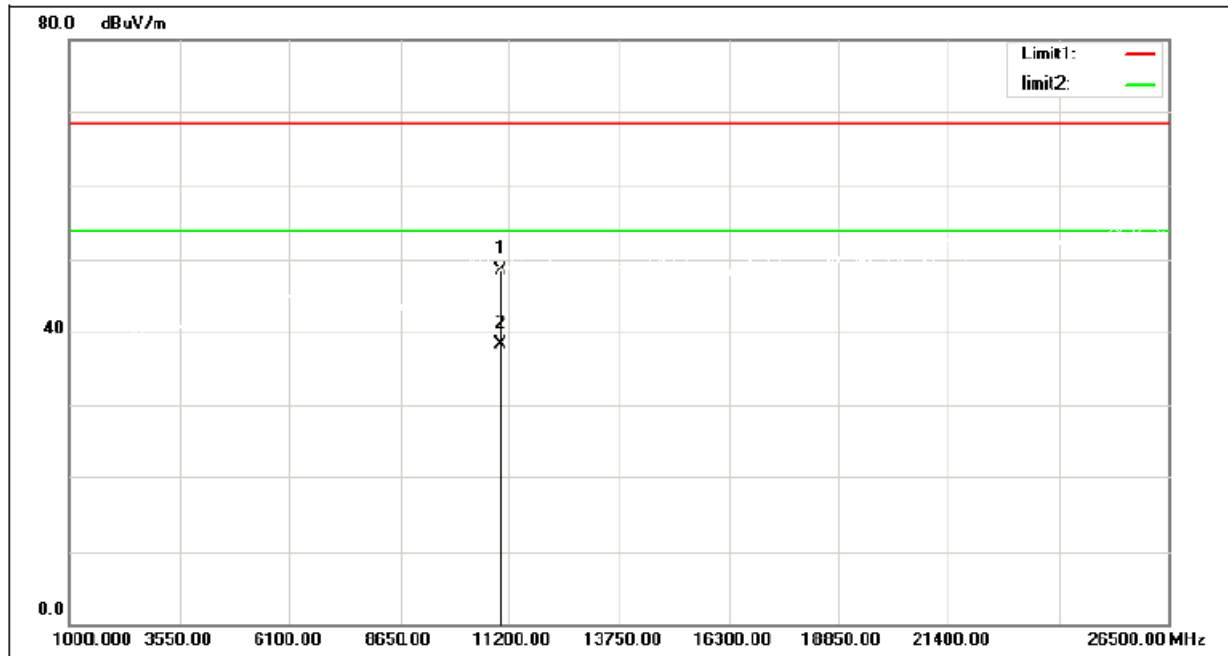
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 40.33               | 8.32                    | 48.65              | 68.30             | -19.65         | peak   |
| 2   | 11000.000          | 31.41               | 8.32                    | 39.73              | 54.00             | -14.27         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5500 MHz |

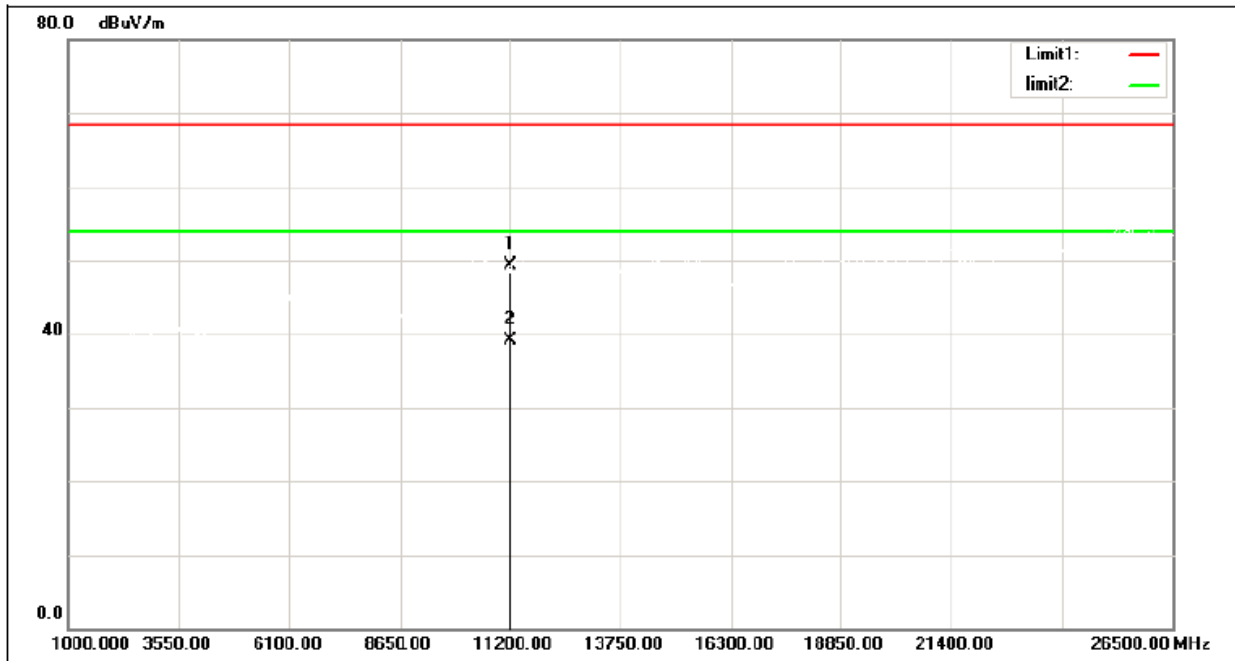
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11000.000          | 40.13               | 8.32                    | 48.45              | 68.30             | -19.85         | peak   |
| 2   | 11000.000          | 30.06               | 8.32                    | 38.38              | 54.00             | -15.62         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5600 MHz |

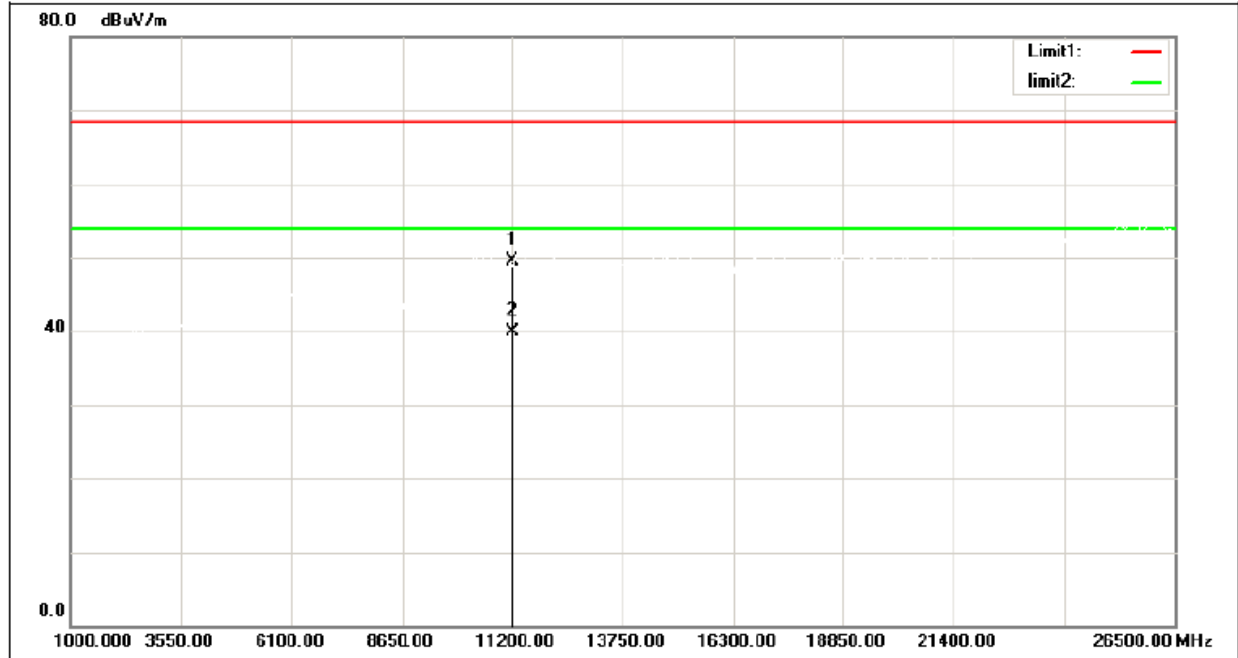
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.05               | 8.21                    | 49.26              | 68.30             | -19.04         | peak   |
| 2   | 11200.000          | 30.86               | 8.21                    | 39.07              | 54.00             | -14.93         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5600 MHz |

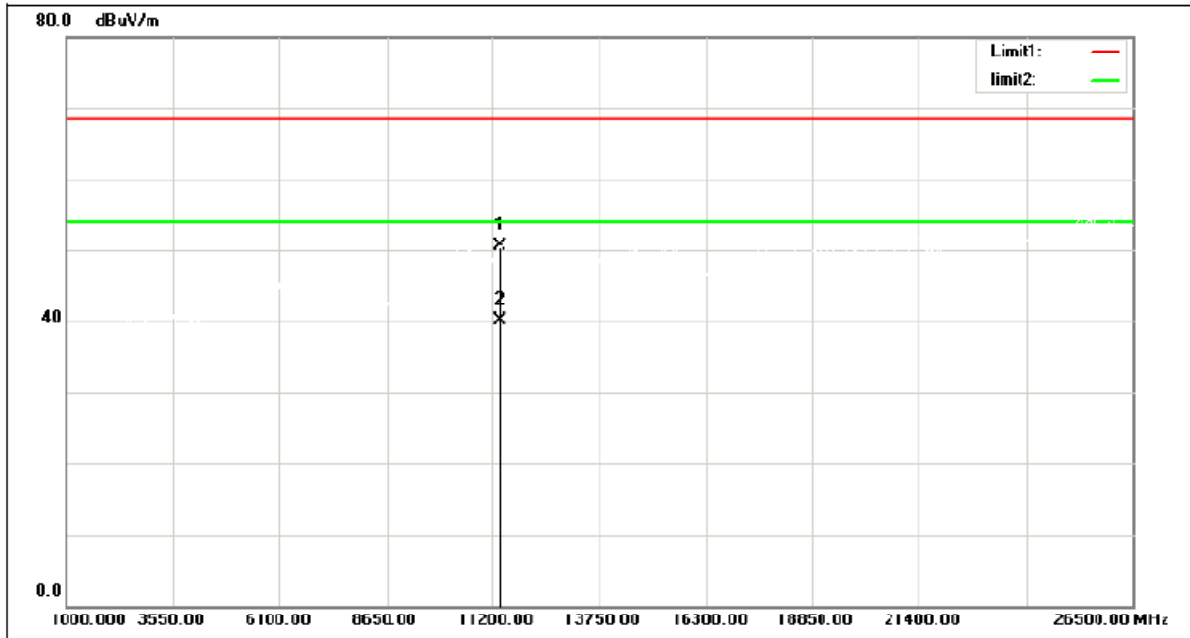
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11200.000          | 41.37               | 8.21                    | 49.58              | 68.30             | -18.72         | peak   |
| 2   | 11200.000          | 31.69               | 8.21                    | 39.90              | 54.00             | -14.10         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5700 MHz |

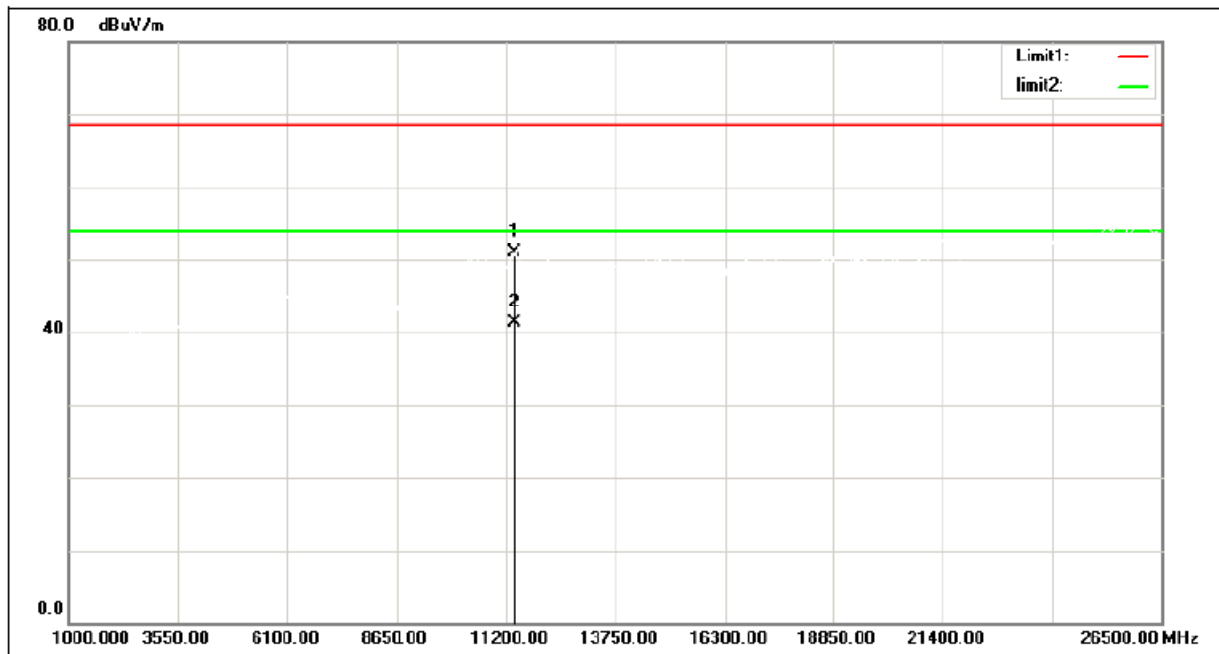
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 42.31               | 8.10                    | 50.41              | 68.30             | -17.89         | peak   |
| 2   | 11400.000          | 32.09               | 8.10                    | 40.19              | 54.00             | -13.81         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT20) Mode 5700 MHz |

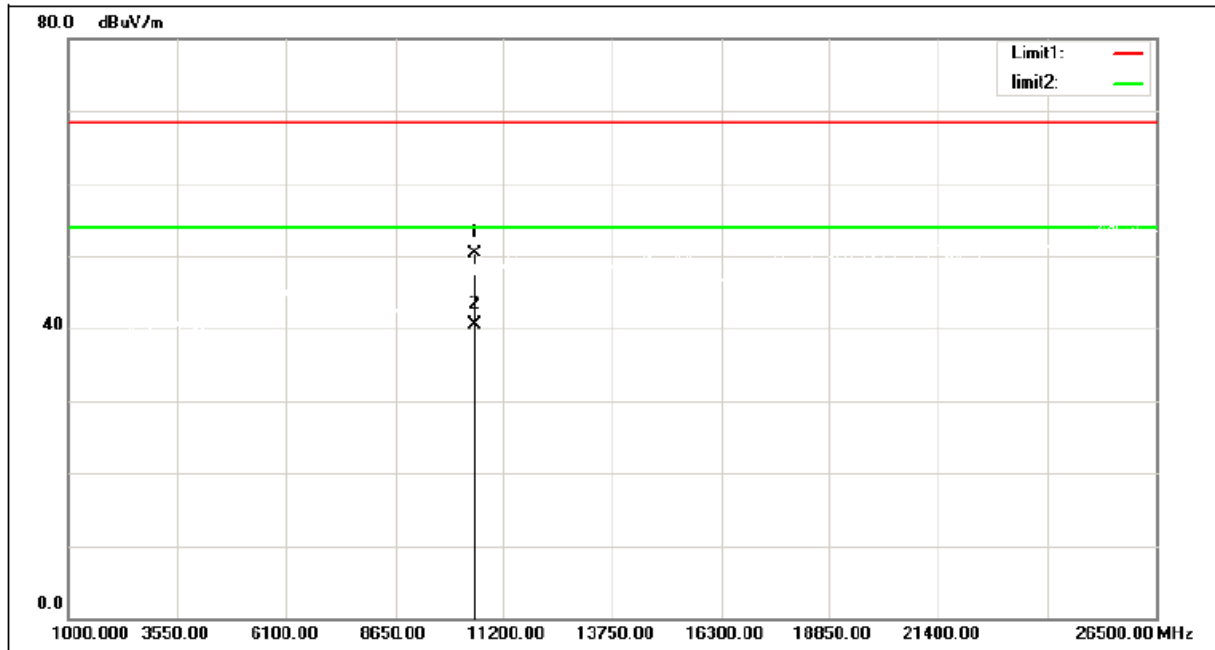
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11400.000          | 42.74               | 8.10                    | 50.84              | 68.30             | -17.46         | peak   |
| 2   | 11400.000          | 33.19               | 8.10                    | 41.29              | 54.00             | -12.71         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5270 MHz |

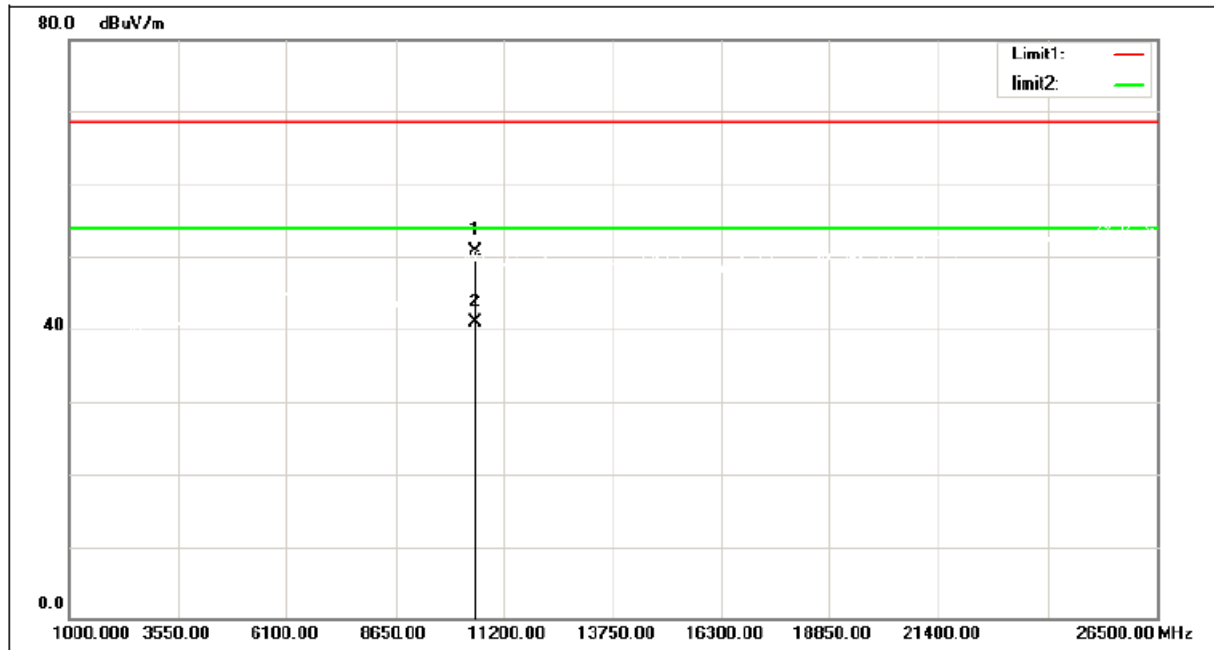
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10540.000          | 43.55               | 6.80                    | 50.35              | 68.30             | -17.95         | peak   |
| 2   | 10540.000          | 33.64               | 6.80                    | 40.44              | 54.00             | -13.56         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5270 MHz |

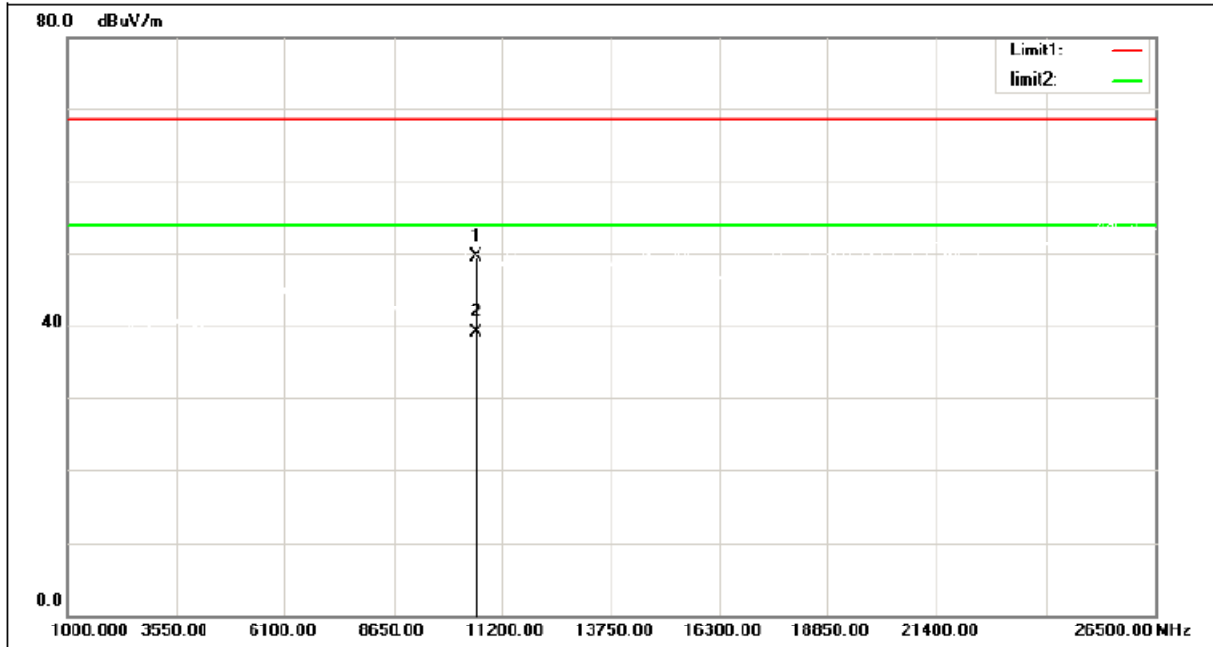
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10540.000          | 43.93               | 6.80                    | 50.73              | 68.30             | -17.57         | peak   |
| 2   | 10540.000          | 34.09               | 6.80                    | 40.89              | 54.00             | -13.11         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

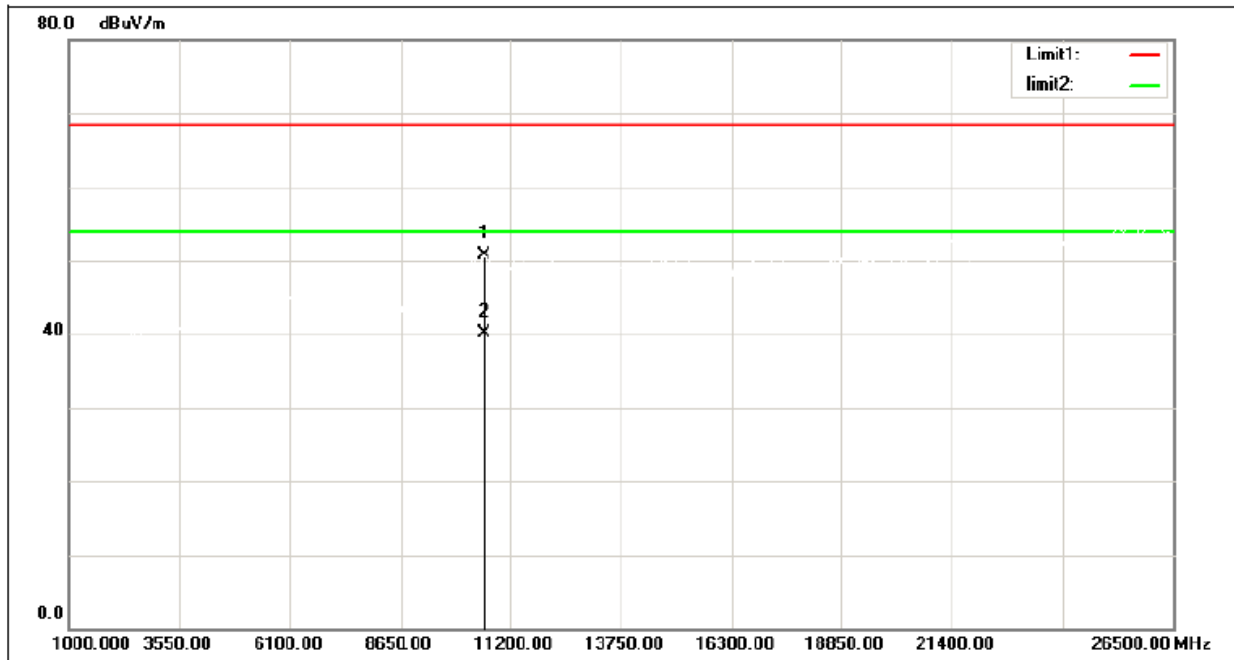
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10620.000          | 42.43               | 7.07                    | 49.50              | 68.30             | -18.80         | peak   |
| 2   | 10620.000          | 32.01               | 7.07                    | 39.08              | 54.00             | -14.92         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT40) Mode 5310 MHz |

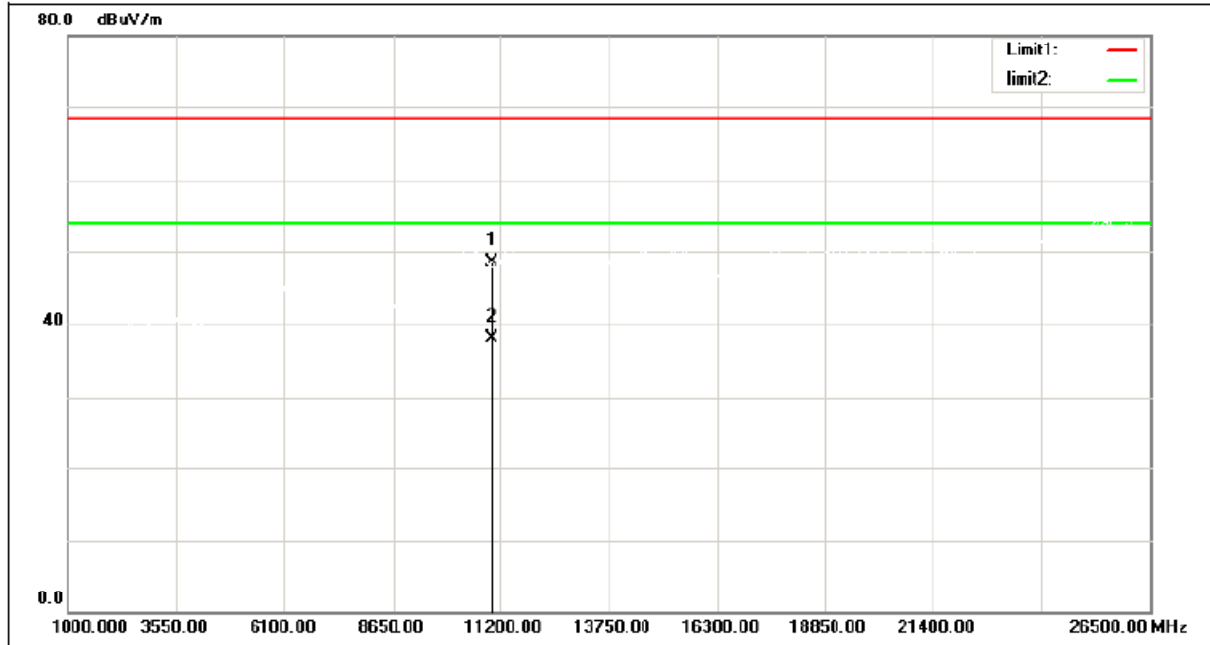
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10620.000          | 43.71               | 7.07                    | 50.78              | 68.30             | -17.52         | peak   |
| 2   | 10620.000          | 32.94               | 7.07                    | 40.01              | 54.00             | -13.99         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

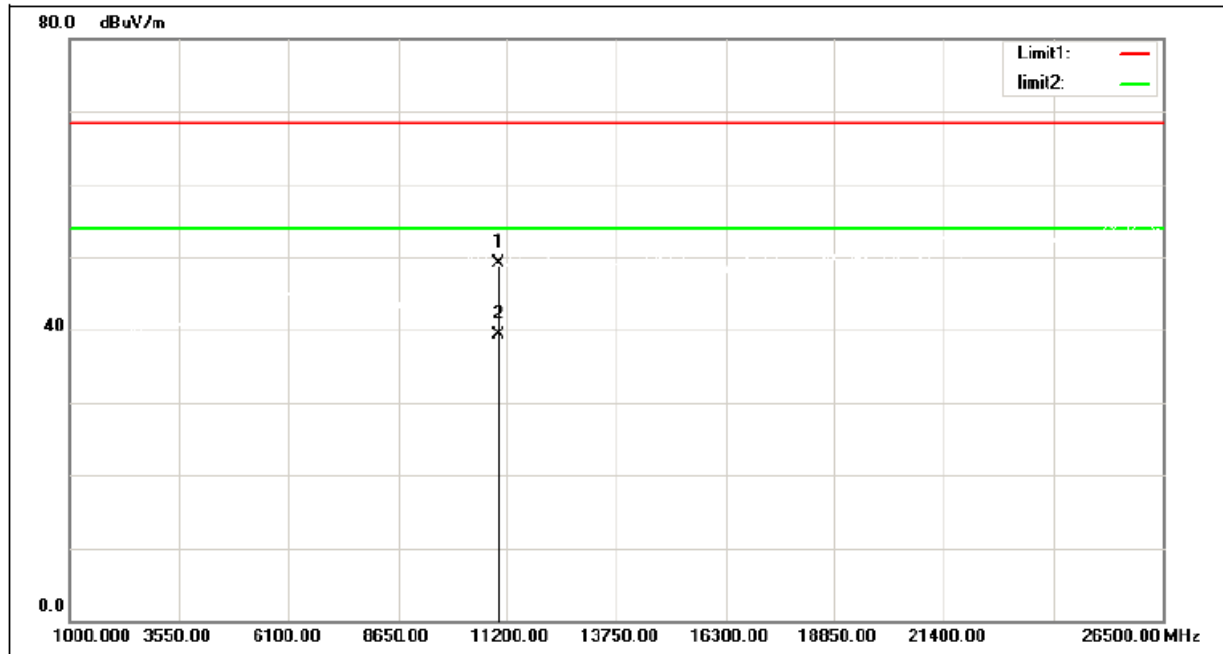
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11020.000          | 40.13               | 8.30                    | 48.43              | 68.30             | -19.87         | peak   |
| 2   | 11020.000          | 29.89               | 8.30                    | 38.19              | 54.00             | -15.81         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5510 MHz |

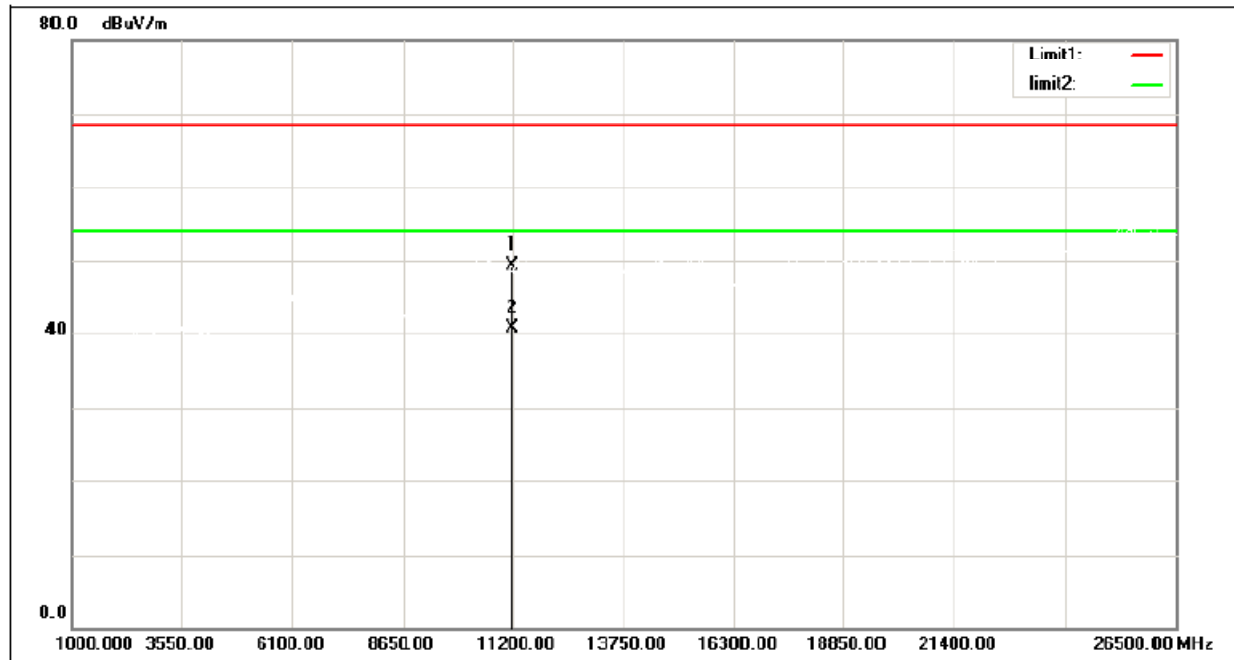
## Horizontal



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct Factor(dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------------|-----------------|----------------|-------------|--------|
| 1   | 11020.000       | 40.85            | 8.30                 | 49.15           | 68.30          | -19.15      | peak   |
| 2   | 11020.000       | 30.96            | 8.30                 | 39.26           | 54.00          | -14.74      | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5590 MHz |

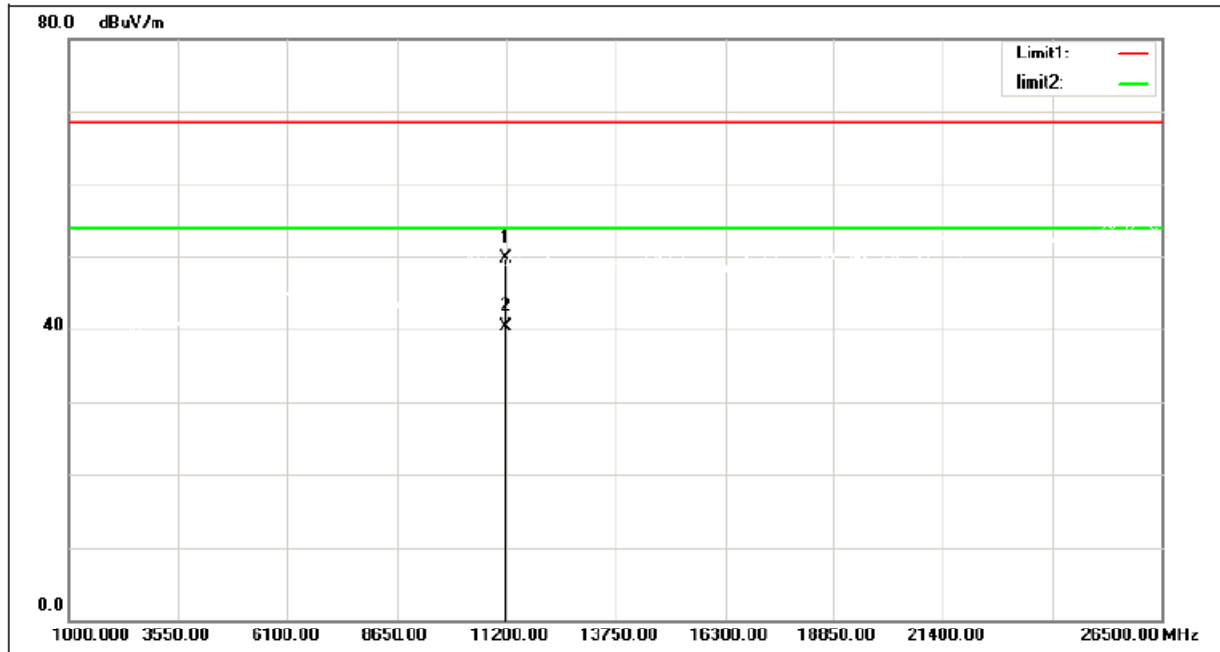
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11180.000          | 41.12               | 8.23                    | 49.35              | 68.30             | -18.95         | peak   |
| 2   | 11180.000          | 32.46               | 8.23                    | 40.69              | 54.00             | -13.31         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5590 MHz |

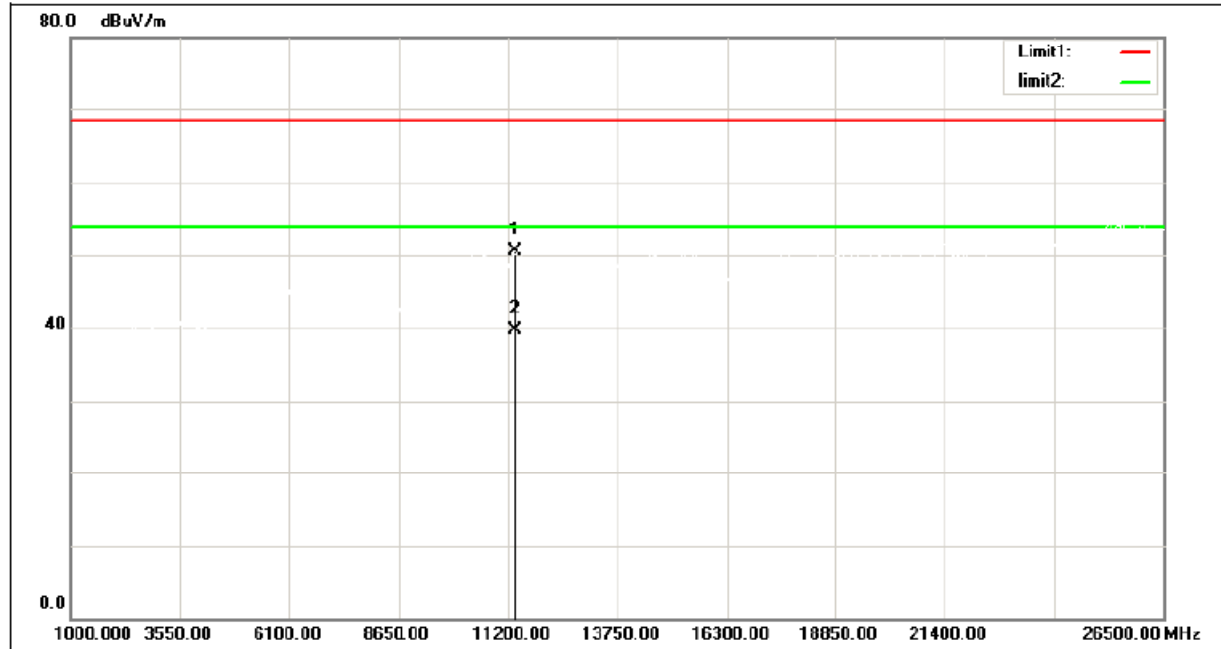
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11180.000          | 41.44               | 8.23                    | 49.67              | 68.30             | -18.63         | peak   |
| 2   | 11180.000          | 32.03               | 8.23                    | 40.26              | 54.00             | -13.74         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

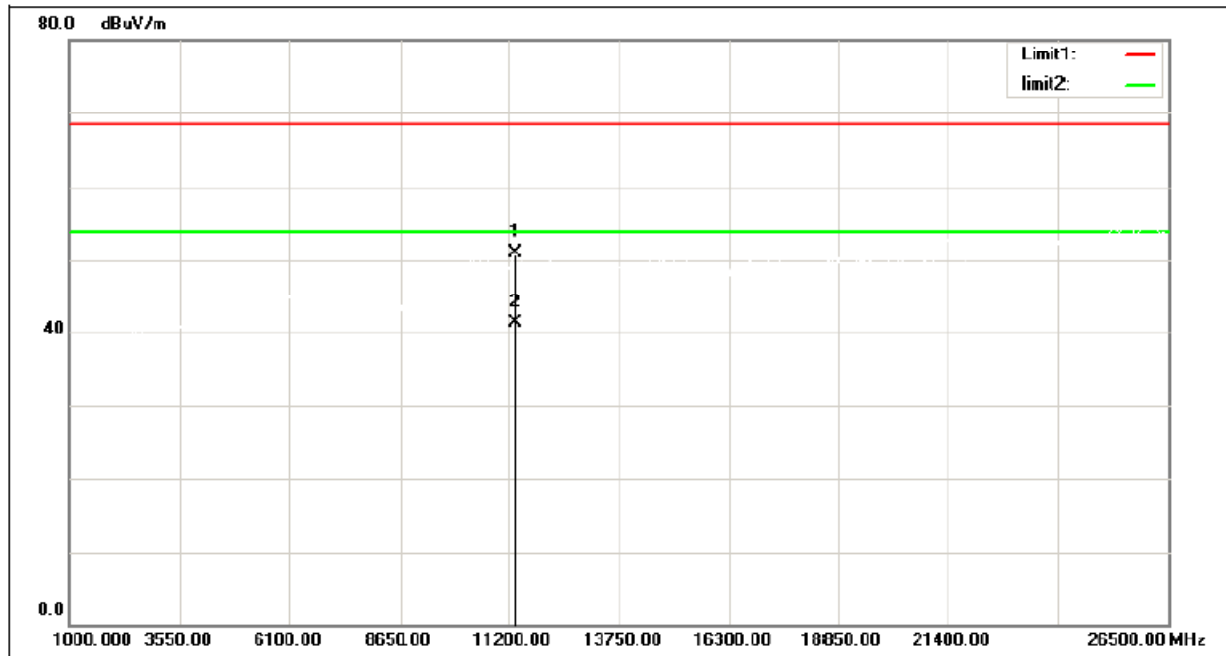
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11340.000          | 42.31               | 8.14                    | 50.45              | 68.30             | -17.85         | peak   |
| 2   | 11340.000          | 31.56               | 8.14                    | 39.70              | 54.00             | -14.30         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT40) Mode 5670 MHz |

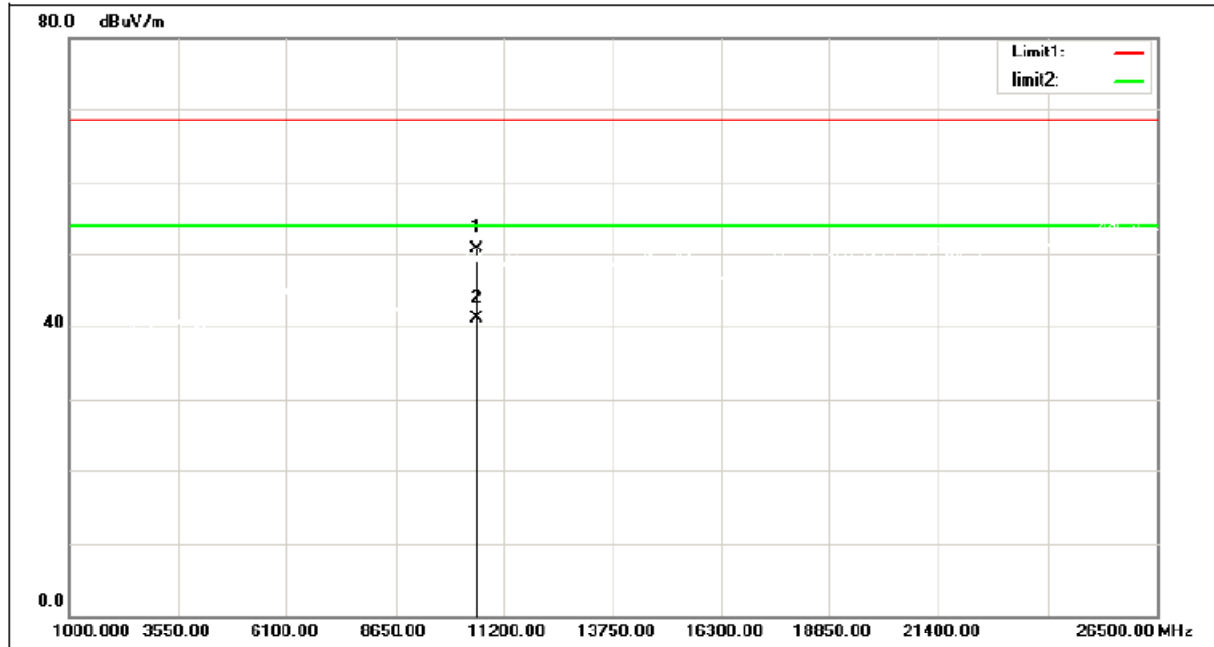
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11340.000          | 42.68               | 8.14                    | 50.82              | 68.30             | -17.48         | peak   |
| 2   | 11340.000          | 33.11               | 8.14                    | 41.25              | 54.00             | -12.75         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

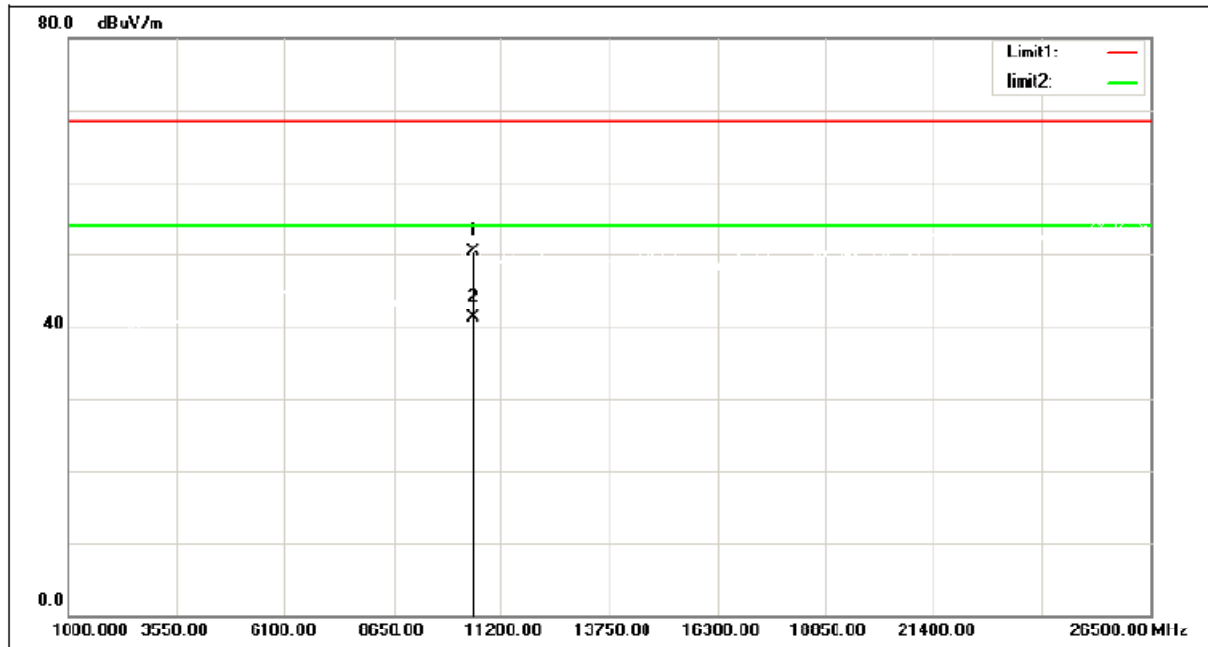
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10580.000          | 43.69               | 6.94                    | 50.63              | 68.30             | -17.67         | peak   |
| 2   | 10580.000          | 34.16               | 6.94                    | 41.10              | 54.00             | -12.90         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2A_TX AC (VHT80) Mode 5290 MHz |

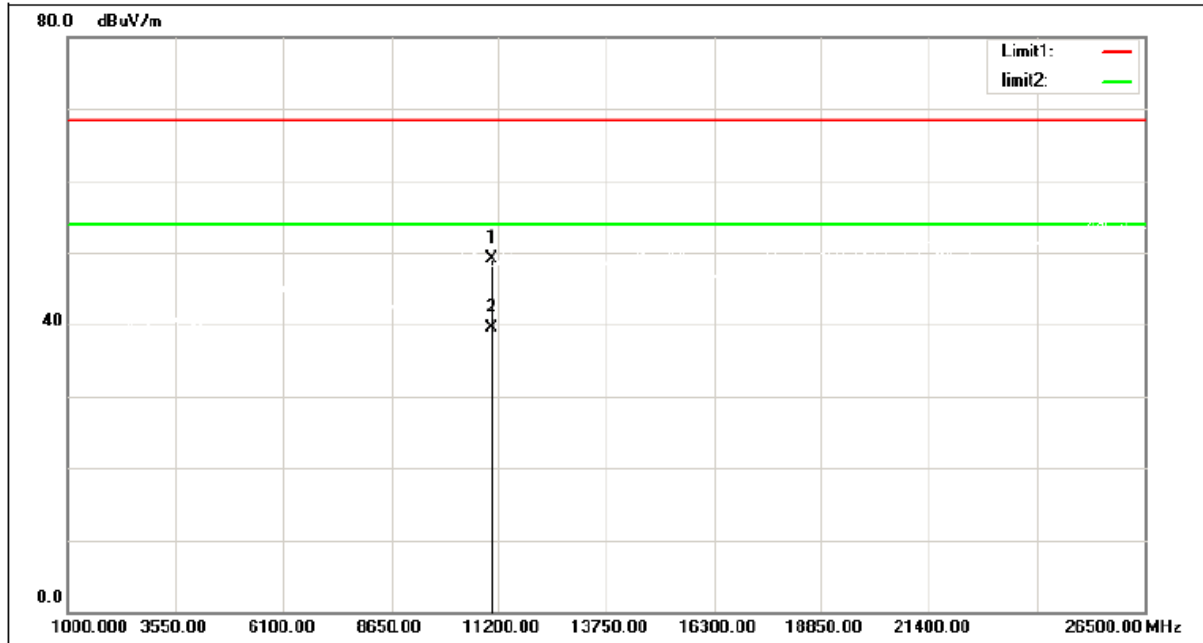
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 10580.000          | 43.43               | 6.94                    | 50.37              | 68.30             | -17.93         | peak   |
| 2   | 10580.000          | 34.31               | 6.94                    | 41.25              | 54.00             | -12.75         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

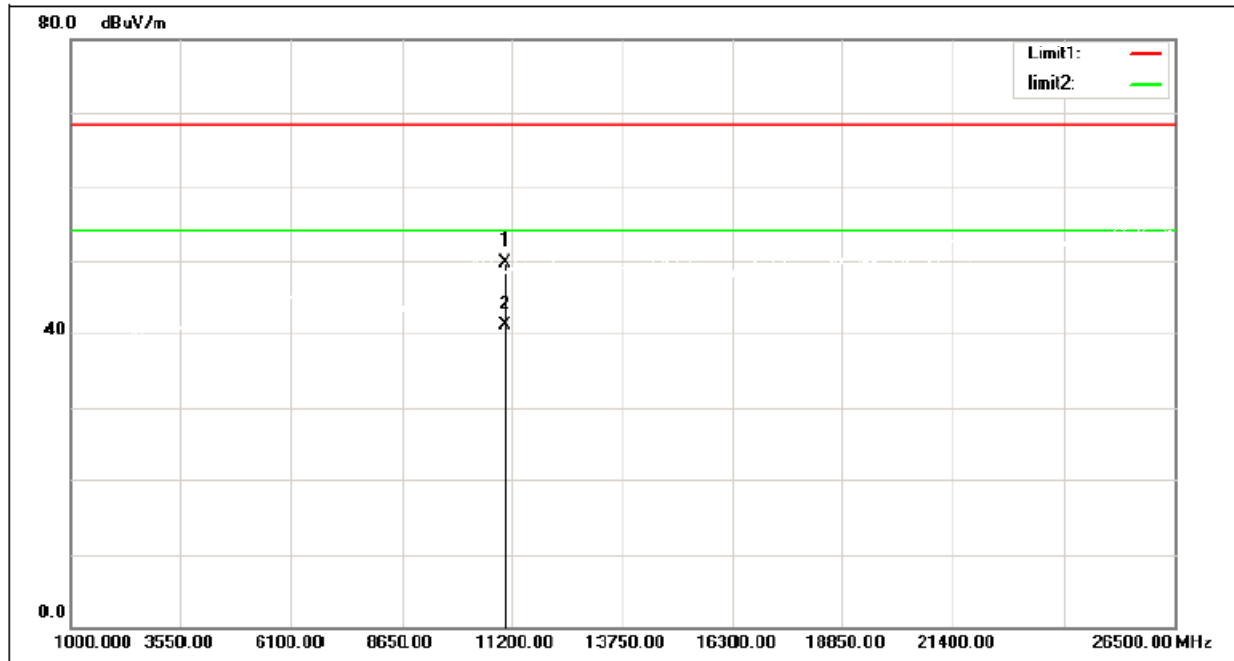
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11060.000          | 40.85               | 8.28                    | 49.13              | 68.30             | -19.17         | peak   |
| 2   | 11060.000          | 31.32               | 8.28                    | 39.60              | 54.00             | -14.40         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5530 MHz |

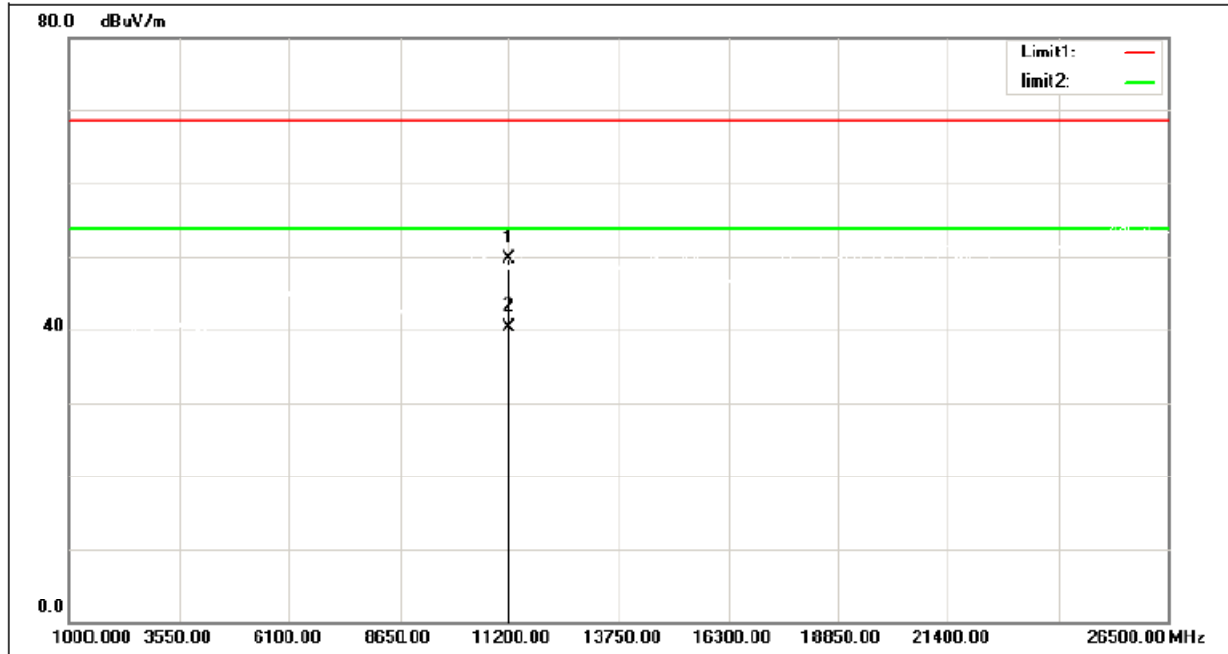
## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11060.000          | 41.39               | 8.28                    | 49.67              | 68.30             | -18.63         | peak   |
| 2   | 11060.000          | 32.88               | 8.28                    | 41.16              | 54.00             | -12.84         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

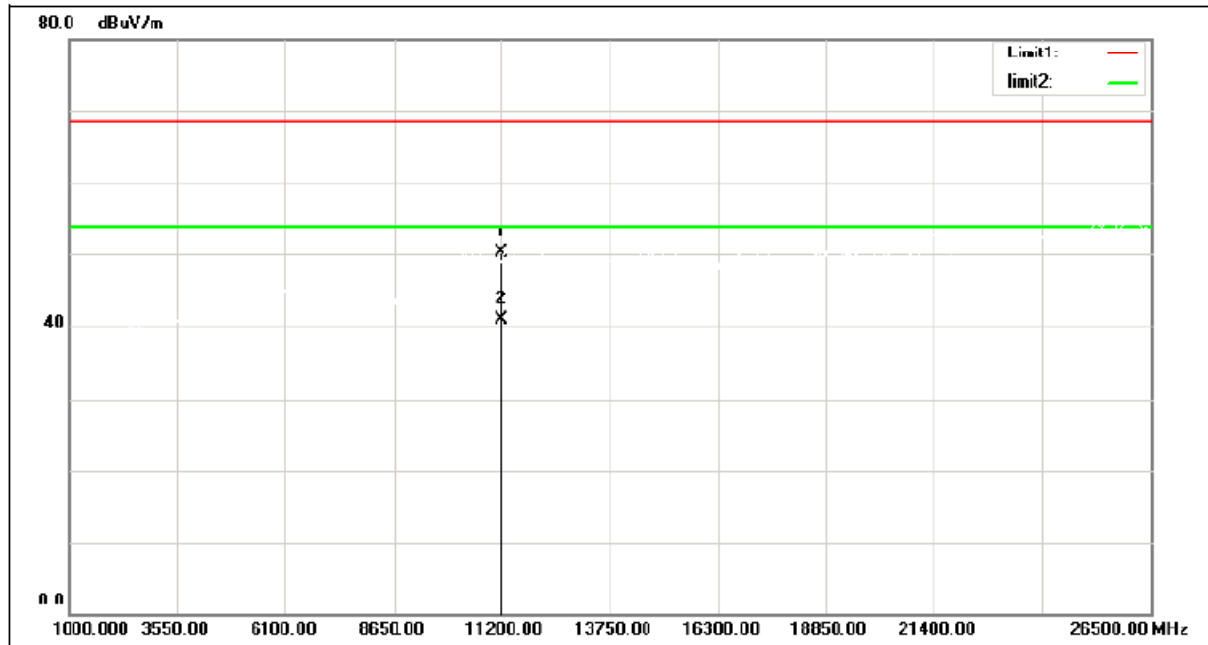
## Vertical



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11220.000          | 41.47               | 8.19                    | 49.66              | 68.30             | -18.64         | peak   |
| 2   | 11220.000          | 32.03               | 8.19                    | 40.22              | 54.00             | -13.78         | AVG    |

|                 |                                     |
|-----------------|-------------------------------------|
| Orthogonal Axis | X                                   |
| Test Mode       | UNII-2C_TX AC (VHT80) Mode 5610 MHz |

## Horizontal



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>Factor(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-------------------------|--------------------|-------------------|----------------|--------|
| 1   | 11220.000          | 42.01               | 8.19                    | 50.20              | 68.30             | -18.10         | peak   |
| 2   | 11220.000          | 32.79               | 8.19                    | 40.98              | 54.00             | -13.02         | AVG    |

## 6. BANDWIDTH TEST

### 6.1. LIMIT

| FCC Part15, Subpart E (15.407)<br>RSS-Gen and RSS-247 |                 |                 |                       |
|-------------------------------------------------------|-----------------|-----------------|-----------------------|
| Section                                               | Test Item       | Limit           | Frequency Range (MHz) |
| 15.407(a)                                             | 26 dB Bandwidth | -               | 5150-5250             |
| 15.407(e)                                             | 26 dB Bandwidth | -               | 5250-5350             |
| RSS-247 6.2.1.1                                       | 26 dB Bandwidth | -               | 5470-5725             |
| RSS-247 6.2.2.1                                       | 26 dB Bandwidth | -               | 5725-5850             |
| RSS-247 6.2.3.1                                       | 26 dB Bandwidth | -               | 5725-5850             |
| RSS-247 6.2.4.1                                       | 6dB Bandwidth   | Minimum 500 kHz | 5725-5850             |

### 6.2. TEST PROCEDURE AND SETTING

- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below

- b. Spectrum Setting:

For UNII-1:

| Spectrum Parameter | Setting                                                           |
|--------------------|-------------------------------------------------------------------|
| Attenuation        | Auto                                                              |
| Span Frequency     | > 26dB Bandwidth                                                  |
| RBW                | 300 kHz (Bandwidth 20 MHz)<br>1 MHz (Bandwidth 40 MHz and 80 MHz) |
| VBW                | 1 MHz (Bandwidth 20 MHz)<br>3 MHz (Bandwidth 40 MHz and 80 MHz)   |
| Detector           | Peak                                                              |
| Trace              | Max Hold                                                          |
| Sweep Time         | Auto                                                              |

For UNII-3:

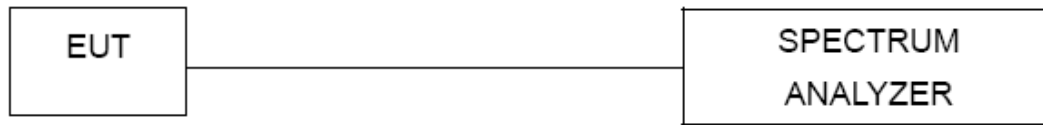
| Spectrum Parameter | Setting       |
|--------------------|---------------|
| Attenuation        | Auto          |
| Span Frequency     | 6dB Bandwidth |
| RBW                | 100 kHz       |
| VBW                | 300 kHz       |
| Detector           | Peak          |
| Trace              | Max Hold      |
| Sweep Time         | Auto          |

- c. Measured the spectrum width with power higher than 26dB / 6dB below carrier.

### 6.3. MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer  | Type No.    | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 2022/05/23       |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | N/A              |
| 3    | RF Cable          | Mi-cable      | C10-01-01-1 | 100309     | N/A              |

#### 6.4. TEST SETUP

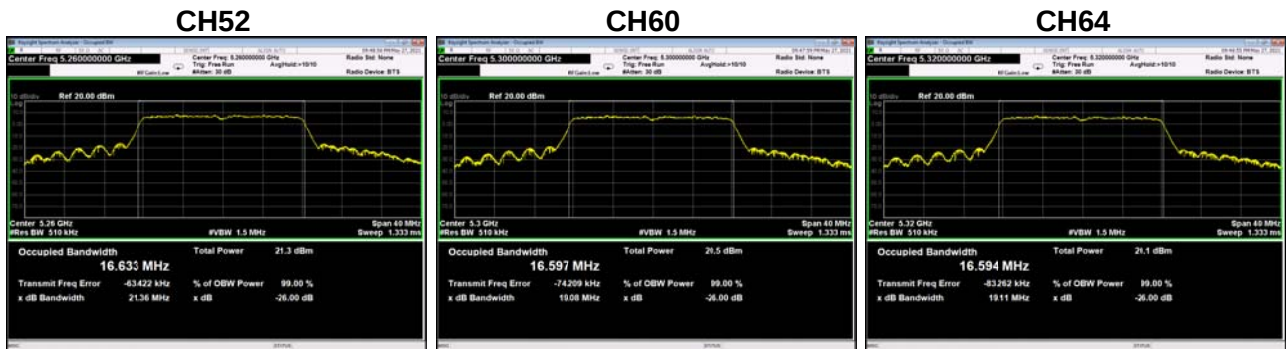


#### 6.5. EUT OPERATION CONDITIONS

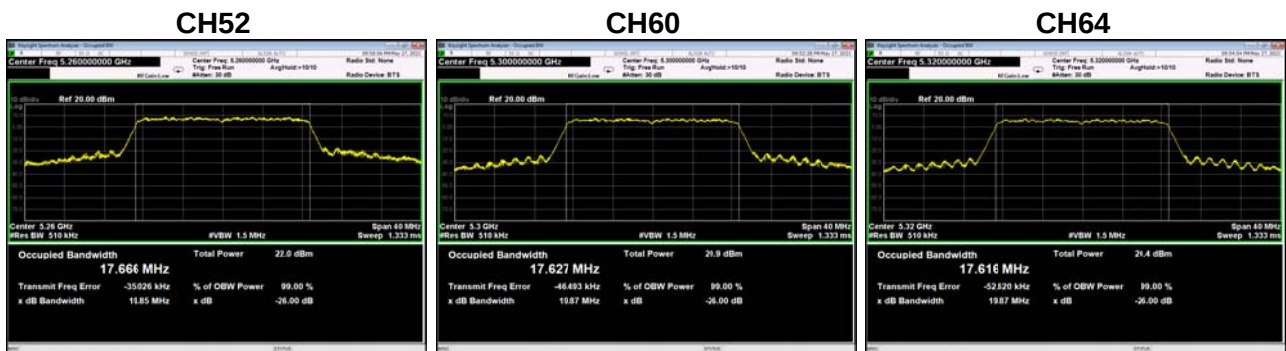
The EUT was programmed to be in continuously transmitting mode.

## 6.6. TEST RESULTS

| UNII-2A_TX A Mode |                 |                       |                               |
|-------------------|-----------------|-----------------------|-------------------------------|
| Channel           | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
| 52                | 5260            | 21.36                 | 16.633                        |
| 60                | 5300            | 19.08                 | 16.597                        |
| 64                | 5320            | 19.11                 | 16.594                        |



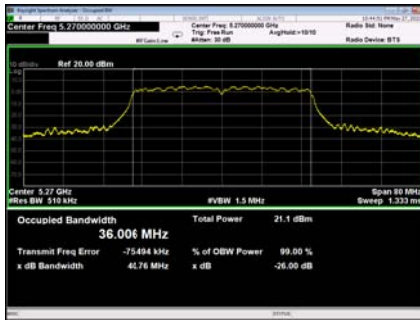
| UNII-2A_TX N (HT20) Mode |                 |                       |                               |
|--------------------------|-----------------|-----------------------|-------------------------------|
| Channel                  | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
| 52                       | 5260            | 19.85                 | 17.666                        |
| 60                       | 5300            | 19.87                 | 17.627                        |
| 64                       | 5320            | 19.87                 | 17.616                        |



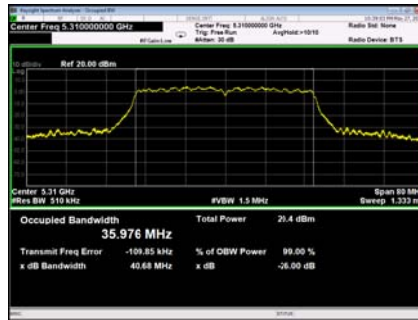
## UNII-2A\_TX N (HT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 54      | 5270            | 40.76                 | 36.006                        |
| 62      | 5310            | 40.68                 | 35.976                        |

CH54



CH62



## UNII-2C\_TX A Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100     | 5500            | 19.19                 | 16.579                        |
| 120     | 5600            | 31.29                 | 17.001                        |
| 140     | 5700            | 28.21                 | 16.890                        |

CH100



CH120



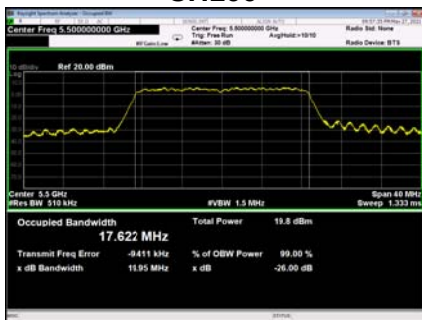
CH140



## UNII-2C\_TX N (HT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100     | 5500            | 19.95                 | 17.622                        |
| 120     | 5600            | 28.13                 | 17.812                        |
| 140     | 5700            | 24.83                 | 17.709                        |

CH100



CH120



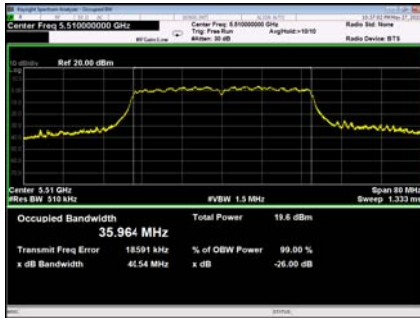
CH140



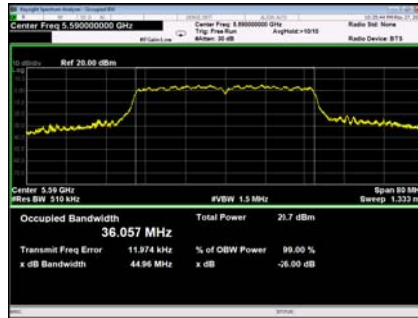
## UNII-2C\_TX N (HT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 102     | 5510            | 40.54                 | 35.964                        |
| 118     | 5590            | 44.96                 | 36.057                        |
| 134     | 5670            | 50.57                 | 36.139                        |

CH102



CH118



CH134



## UNII-2A\_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 52      | 5260            | 19.85                 | 17.736                        |
| 60      | 5300            | 19.85                 | 17.749                        |
| 64      | 5320            | 19.85                 | 17.738                        |

CH52



CH60



CH64



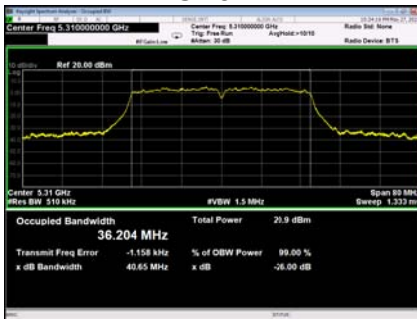
## UNII-2A\_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 54      | 5270            | 40.18                 | 36.167                        |
| 62      | 5310            | 40.65                 | 36.204                        |

CH54



CH62



## UNII-2A\_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 58      | 5290            | 81.18                 | 75.247                        |

CH58



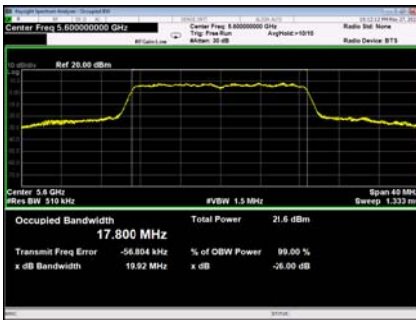
## UNII-2C\_TX AC (VHT20) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 100     | 5500            | 19.92                 | 17.748                        |
| 120     | 5600            | 19.92                 | 17.800                        |
| 140     | 5700            | 22.9                  | 17.783                        |

CH100



CH120



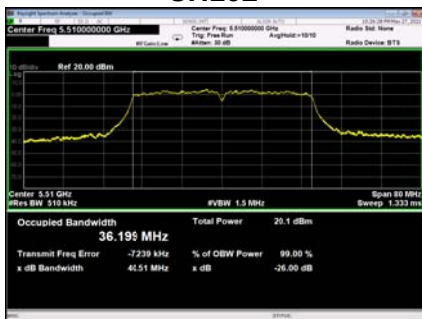
CH140



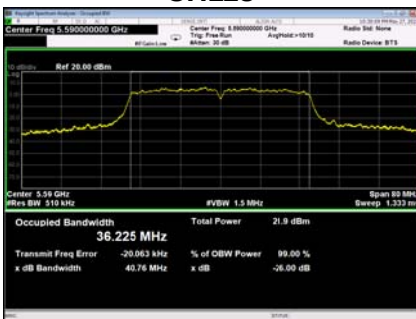
## UNII-2C\_TX AC (VHT40) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 102     | 5510            | 40.51                 | 36.199                        |
| 118     | 5590            | 40.76                 | 36.225                        |
| 134     | 5670            | 41.66                 | 36.278                        |

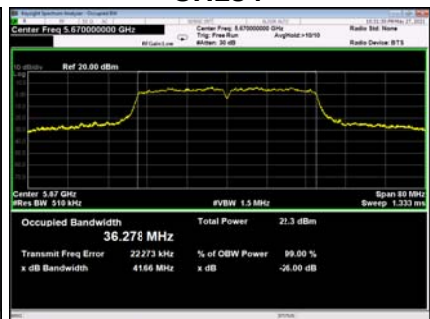
CH102



CH118



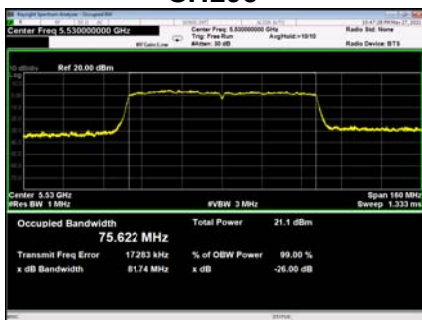
CH134



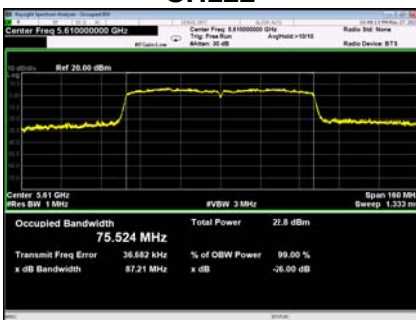
## UNII-2C\_TX AC (VHT80) Mode

| Channel | Frequency (MHz) | 26 dB Bandwidth (MHz) | 99 % Emission Bandwidth (MHz) |
|---------|-----------------|-----------------------|-------------------------------|
| 106     | 5530            | 81.74                 | 75.622                        |
| 122     | 5610            | 87.21                 | 75.524                        |

CH106



CH122



## 7. MAXIMUM OUTPUT POWER TEST

### 7.1. LIMIT

| FCC Part15, Subpart E (15.407)&RSS-247                                   |                      |                                                                      |                                     |
|--------------------------------------------------------------------------|----------------------|----------------------------------------------------------------------|-------------------------------------|
| Section                                                                  | Test Item            | Limit                                                                | Frequency Range (MHz)               |
| RSS-247 6.2.1.1<br>RSS-247 6.2.2.1<br>RSS-247 6.2.3.1<br>RSS-247 6.2.4.1 | EIRP Output Power    | not exceed 200 mW or $10 + 10 \log B$ , dBm, whichever power is less | 5150-5250                           |
|                                                                          |                      | not exceed 1.0 W or $17 + 10 \log B$ , dBm, whichever is less        | 5250-5350<br>5470-5600<br>5650-5725 |
| 15.407(a)                                                                | Maximum Output Power | AP device: 1 Watt (30dBm)<br>Client device: 250mW (24dBm)            | 5150-5250                           |
|                                                                          |                      | 250mW (24dBm)                                                        | 5250-5350<br>5470-5725              |
| 15.407(a)<br>RSS-247 6.2.4.1                                             | Maximum Output Power | 1 Watt (30dBm)                                                       | 5725-5850                           |

Note:

- For client devices in the 5.15-5.25 GHz band, the maximum conducted output power over the frequency band of operation shall not exceed 250 mW provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.
- For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or  $11 \text{ dBm} + 10 \log B$ , where B is the 26dB Bandwidth in megahertz.
- EIRP Power=Output Power+Antenna Gain  
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain= $3.57\text{dBi}+3.57\text{dBi}=6.58\text{dBi}$

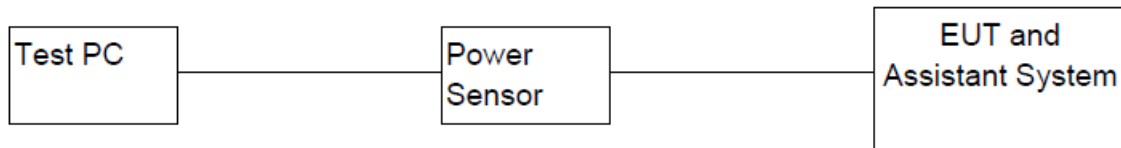
### 7.2. TEST PROCEDURE AND SETTING

- The EUT was directly connected to the power meter and antenna output port as show in the block diagram below.
- Test was performed in accordance with method of FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.

### 7.3. MEASUREMENT INSTRUMENTS LIST

| Item | Equipment     | Manufacturer  | Model No.   | Serial No. | Calibrated until |
|------|---------------|---------------|-------------|------------|------------------|
| 1    | Power Sensor  | KEYSIGHT      | U2021XA     | MY55240009 | 05/23/2022       |
| 2    | Attenuator    | Mini-Circuits | BW-S10W2    | 101109     | N/A              |
| 3    | RF Cable      | Micable       | C10-01-01-1 | 100309     | N/A              |
| 4    | Test Software | KEYSIGHT      | Power Panel | V3.11      | N/A              |

#### 7.4. TEST SETUP



#### 7.5. EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

## 7.6. TEST RESULTS

### UNII-2A\_TX A Mode\_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52      | 5260            | 14.71              | 0.00        | 14.71                            | 24.00            | 0.25           | PASS   |
| 60      | 5300            | 14.92              | 0.00        | 14.92                            | 24.00            | 0.25           | PASS   |
| 64      | 5320            | 14.91              | 0.00        | 14.91                            | 24.00            | 0.25           | PASS   |

### UNII-2A\_TX A Mode\_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52      | 5260            | 14.73              | 0.00        | 14.73                            | 24.00            | 0.25           | PASS   |
| 60      | 5300            | 14.79              | 0.00        | 14.79                            | 24.00            | 0.25           | PASS   |
| 64      | 5320            | 14.82              | 0.00        | 14.82                            | 24.00            | 0.25           | PASS   |

### UNII-2C\_TX A Mode\_Ant 1

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100     | 5500            | 14.17              | 0.00        | 14.17                            | 24.00            | 0.25           | PASS   |
| 120     | 5600            | 14.21              | 0.00        | 14.21                            | 24.00            | 0.25           | PASS   |
| 140     | 5700            | 14.76              | 0.00        | 14.76                            | 24.00            | 0.25           | PASS   |

### UNII-2C\_TX A Mode\_Ant 2

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 100     | 5500            | 14.85              | 0.00        | 14.85                            | 24.00            | 0.25           | PASS   |
| 120     | 5600            | 14.30              | 0.00        | 14.30                            | 24.00            | 0.25           | PASS   |
| 140     | 5700            | 14.89              | 0.00        | 14.89                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT20) Mode \_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52      | 5260            | 14.66              | 0.00        | 14.66                            | 24.00            | 0.25           | PASS   |
| 60      | 5300            | 14.96              | 0.00        | 14.96                            | 24.00            | 0.25           | PASS   |
| 64      | 5320            | 14.61              | 0.00        | 14.61                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT20) Mode \_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 52      | 5260            | 14.58              | 0.00        | 14.58                            | 24.00            | 0.25           | PASS   |
| 60      | 5300            | 14.23              | 0.00        | 14.23                            | 24.00            | 0.25           | PASS   |
| 64      | 5320            | 14.17              | 0.00        | 14.17                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT20) Mode \_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 52      | 5260            | 17.63              | 24.00            | 0.25           | PASS   |
| 60      | 5300            | 17.62              | 24.00            | 0.25           | PASS   |
| 64      | 5320            | 17.41              | 24.00            | 0.25           | PASS   |

| UNII-2C_TX N (HT20) Mode _Ant 1 |                 |                    |             |                                  |                  |                |        |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                         | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                             | 5500            | 14.46              | 0.00        | 14.46                            | 24.00            | 0.25           | PASS   |
| 120                             | 5600            | 14.89              | 0.00        | 14.89                            | 24.00            | 0.25           | PASS   |
| 140                             | 5700            | 14.33              | 0.00        | 14.33                            | 24.00            | 0.25           | PASS   |

| UNII-2C_TX N (HT20) Mode _Ant 2 |                 |                    |             |                                  |                  |                |        |
|---------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                         | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                             | 5500            | 14.92              | 0.00        | 14.92                            | 24.00            | 0.25           | PASS   |
| 120                             | 5600            | 14.26              | 0.00        | 14.26                            | 24.00            | 0.25           | PASS   |
| 140                             | 5700            | 14.73              | 0.00        | 14.73                            | 24.00            | 0.25           | PASS   |

| UNII-2C_TX N (HT20) Mode _Total |                 |                    |                  |                |        |
|---------------------------------|-----------------|--------------------|------------------|----------------|--------|
| Channel                         | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                             | 5500            | 17.71              | 24.00            | 0.25           | PASS   |
| 120                             | 5600            | 17.60              | 24.00            | 0.25           | PASS   |
| 140                             | 5700            | 17.54              | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT40) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54      | 5270            | 14.32              | 0.00        | 14.32                            | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 14.83              | 0.00        | 14.83                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT40) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54      | 5270            | 14.74              | 0.00        | 14.74                            | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 14.72              | 0.00        | 14.72                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX N (HT40) Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 54      | 5270            | 17.55              | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 17.79              | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX N (HT40) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102     | 5510            | 14.49              | 0.00        | 14.49                            | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 14.77              | 0.00        | 14.77                            | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 14.47              | 0.00        | 14.47                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX N (HT40) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102     | 5510            | 14.84              | 0.00        | 14.84                            | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 14.62              | 0.00        | 14.62                            | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 14.40              | 0.00        | 14.40                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX N (HT40) Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 102     | 5510            | 17.68              | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 17.71              | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 17.45              | 24.00            | 0.25           | PASS   |

| UNII-2A_TX AC (VHT20) Mode_Ant 1 |                 |                    |             |                                  |                  |                |        |
|----------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 52                               | 5260            | 14.93              | 0.00        | 14.93                            | 24.00            | 0.25           | PASS   |
| 60                               | 5300            | 14.12              | 0.00        | 14.12                            | 24.00            | 0.25           | PASS   |
| 64                               | 5320            | 14.34              | 0.00        | 14.34                            | 24.00            | 0.25           | PASS   |

| UNII-2A_TX AC (VHT20) Mode_Ant 2 |                 |                    |             |                                  |                  |                |        |
|----------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 52                               | 5260            | 14.88              | 0.00        | 14.88                            | 24.00            | 0.25           | PASS   |
| 60                               | 5300            | 14.56              | 0.00        | 14.56                            | 24.00            | 0.25           | PASS   |
| 64                               | 5320            | 14.41              | 0.00        | 14.41                            | 24.00            | 0.25           | PASS   |

| UNII-2A_TX AC (VHT20) Mode_Total |                 |                    |                  |                |        |
|----------------------------------|-----------------|--------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 52                               | 5260            | 17.92              | 24.00            | 0.25           | PASS   |
| 60                               | 5300            | 17.36              | 24.00            | 0.25           | PASS   |
| 64                               | 5320            | 17.39              | 24.00            | 0.25           | PASS   |

| UNII-2C_TX AC (VHT20) Mode_Ant 1 |                 |                    |             |                                  |                  |                |        |
|----------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                              | 5500            | 14.56              | 0.00        | 14.56                            | 24.00            | 0.25           | PASS   |
| 120                              | 5600            | 14.19              | 0.00        | 14.19                            | 24.00            | 0.25           | PASS   |
| 140                              | 5700            | 14.90              | 0.00        | 14.90                            | 24.00            | 0.25           | PASS   |

| UNII-2C_TX AC (VHT20) Mode_Ant 2 |                 |                    |             |                                  |                  |                |        |
|----------------------------------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                              | 5500            | 14.80              | 0.00        | 14.80                            | 24.00            | 0.25           | PASS   |
| 120                              | 5600            | 14.26              | 0.00        | 14.26                            | 24.00            | 0.25           | PASS   |
| 140                              | 5700            | 14.58              | 0.00        | 14.58                            | 24.00            | 0.25           | PASS   |

| UNII-2C_TX AC (VHT20) Mode_Total |                 |                    |                  |                |        |
|----------------------------------|-----------------|--------------------|------------------|----------------|--------|
| Channel                          | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
| 100                              | 5500            | 17.69              | 24.00            | 0.25           | PASS   |
| 120                              | 5600            | 17.24              | 24.00            | 0.25           | PASS   |
| 140                              | 5700            | 17.75              | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT40) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54      | 5270            | 14.81              | 0.00        | 14.81                            | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 14.23              | 0.00        | 14.23                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT40) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 54      | 5270            | 14.27              | 0.00        | 14.27                            | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 14.98              | 0.00        | 14.98                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT40) Mode\_Total For FCC**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 54      | 5270            | 17.56              | 24.00            | 0.25           | PASS   |
| 62      | 5310            | 17.63              | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT40) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102     | 5510            | 14.83              | 0.00        | 14.83                            | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 14.38              | 0.00        | 14.38                            | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 14.92              | 0.00        | 14.92                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT40) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 102     | 5510            | 14.18              | 0.00        | 14.18                            | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 14.87              | 0.00        | 14.87                            | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 14.88              | 0.00        | 14.88                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT40) Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 102     | 5510            | 17.53              | 24.00            | 0.25           | PASS   |
| 118     | 5590            | 17.64              | 24.00            | 0.25           | PASS   |
| 134     | 5670            | 17.91              | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT80) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 58      | 5290            | 12.39              | 0.00        | 12.39                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT80) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 58      | 5290            | 12.23              | 0.00        | 12.23                            | 24.00            | 0.25           | PASS   |

**UNII-2A\_TX AC (VHT80) Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 58      | 5290            | 15.32              | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT80) Mode\_Ant 1**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 106     | 5530            | 12.80              | 0.00        | 12.80                            | 24.00            | 0.25           | PASS   |
| 122     | 5610            | 12.71              | 0.00        | 12.71                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT80) Mode\_Ant 2**

| Channel | Frequency (MHz) | Output Power (dBm) | Duty Factor | Output Power + Duty Factor (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|-------------|----------------------------------|------------------|----------------|--------|
| 106     | 5530            | 12.98              | 0.00        | 12.98                            | 24.00            | 0.25           | PASS   |
| 122     | 5610            | 12.23              | 0.00        | 12.23                            | 24.00            | 0.25           | PASS   |

**UNII-2C\_TX AC (VHT80) Mode\_Total**

| Channel | Frequency (MHz) | Output Power (dBm) | Max. Limit (dBm) | Max. Limit (W) | Result |
|---------|-----------------|--------------------|------------------|----------------|--------|
| 106     | 5530            | 15.90              | 24.00            | 0.25           | PASS   |
| 122     | 5610            | 15.49              | 24.00            | 0.25           | PASS   |

## 8. POWER SPECTRAL DENSITY TEST

### 8.1. LIMIT

| FCC Part15, Subpart E (15.407)&RSS-247 |                             |                                                |                       |
|----------------------------------------|-----------------------------|------------------------------------------------|-----------------------|
| Section                                | Test Item                   | Limit                                          | Frequency Range (MHz) |
| RSS-247 6.2.1.2                        | EIRP Power Spectral Density | 10dBm/MHz                                      | 5150-5250             |
| 15.407(a)                              | Power Spectral Density      | AP device:17dBm/MHz<br>Client device:11dBm/MHz | 5150-5250             |
| 15.407(a)<br>RSS-247 6.2.4.2           | Power Spectral Density      | 30dBm/500kHz                                   | 5725-5850             |

### 8.2. TEST PROCEDURE AND SETTING

a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.

b. Spectrum Setting:

| Spectrum Parameter | Setting                                                      |
|--------------------|--------------------------------------------------------------|
| Attenuation        | Auto                                                         |
| Span Frequency     | Encompass the entire emissions bandwidth (EBW) of the signal |
| RBW                | = 1MHz.                                                      |
| VBW                | ≥ 3MHz.                                                      |
| Detector           | RMS                                                          |
| Trace average      | 100 trace                                                    |
| Sweep Time         | Auto                                                         |

Note:

1.For UNII-3, according to KDB publication 789033 D02 General UNII Test Procedures New Rules v02r01, section II.F.5., it is acceptable to set RBW at 1MHz and VBW at 3MHz if the spectrum analyzer does not have 500kHz RBW.

2.The value measured with RBW=1MHz is to be added with  $10\log(500\text{kHz}/1\text{MHz})$  which is -3dB. For example, if the measured value is +10dBm using RBW=1MHz (that is +10dBm/MHz), then the converted value will be +7dBm/500kHz.

3. EIRP Power Spectral Density = Power Spectral Density+Antenna Gain  
MIMO Directional Gain=Ant 1 Gain+Ant 2 Gain=3.57dBi+3.57dBi=6.58dBi

### 8.3. MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment | Manufacturer  | Type No.    | Serial No. | Calibrated until |
|------|-------------------|---------------|-------------|------------|------------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 2022/05/23       |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | N/A              |
| 3    | RF Cable          | Mi-cable      | C10-01-01-1 | 100309     | N/A              |

### 8.4. TEST SETUP



**8.5. EUT OPERATION CONDITIONS**

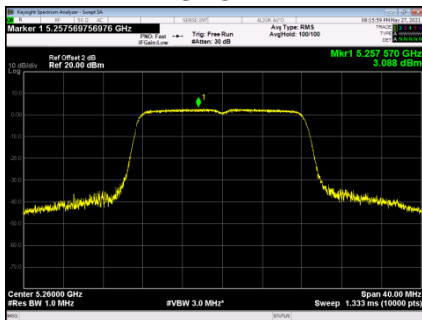
The EUT was programmed to be in continuously transmitting mode.

## 8.6. TEST RESULTS

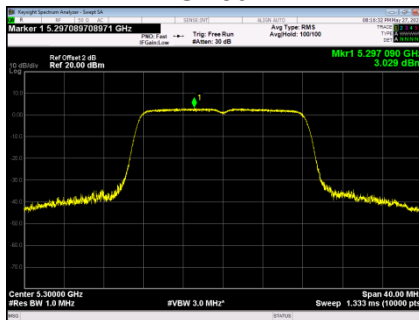
UNII-2A\_TX A Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 3.088                            | 0.00        | 3.088                                          | 11.00                | PASS   |
| 60      | 5300            | 3.029                            | 0.00        | 3.029                                          | 11.00                | PASS   |
| 64      | 5320            | 2.648                            | 0.00        | 2.648                                          | 11.00                | PASS   |

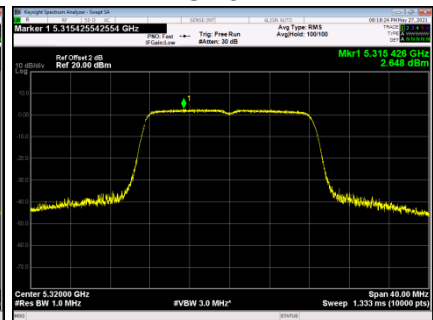
CH52



CH60



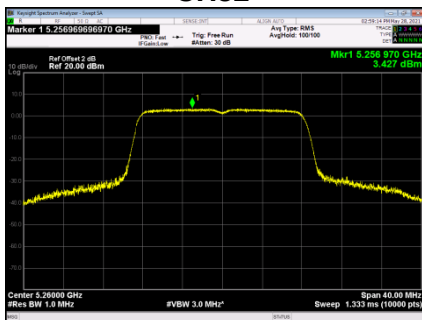
CH64



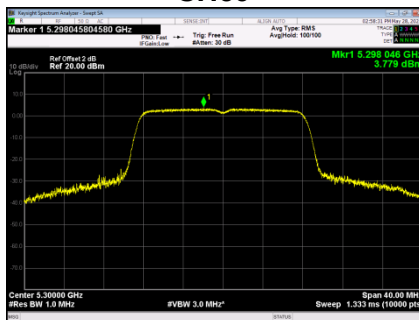
UNII-2A\_TX A Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 3.427                            | 0.00        | 3.427                                          | 11.00                | PASS   |
| 60      | 5300            | 3.779                            | 0.00        | 3.779                                          | 11.00                | PASS   |
| 64      | 5320            | 3.638                            | 0.00        | 3.638                                          | 11.00                | PASS   |

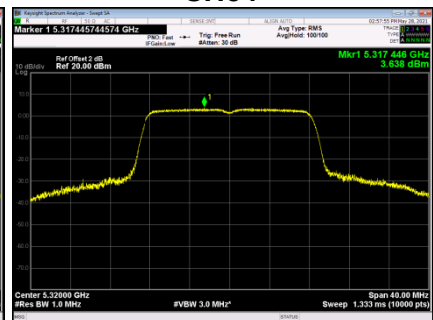
CH52



CH60



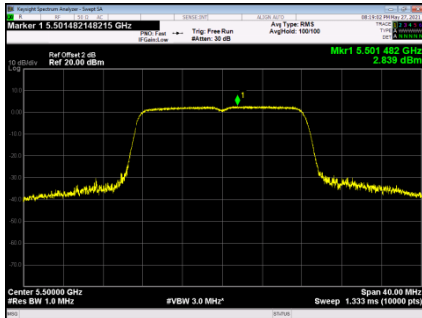
CH64



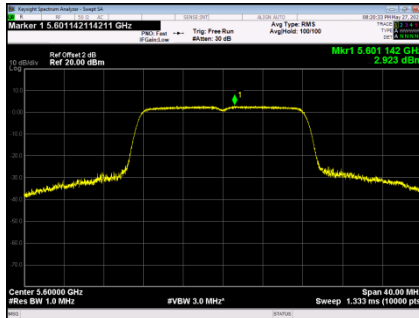
## UNII-2C\_TX A Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 2.839                            | 0.00        | 2.839                                          | 11.00                | PASS   |
| 120     | 5600            | 2.923                            | 0.00        | 2.923                                          | 11.00                | PASS   |
| 140     | 5700            | 3.857                            | 0.00        | 3.857                                          | 11.00                | PASS   |

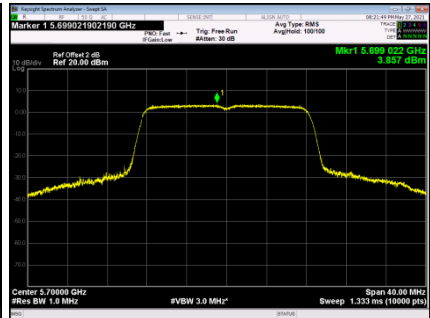
CH100



CH120



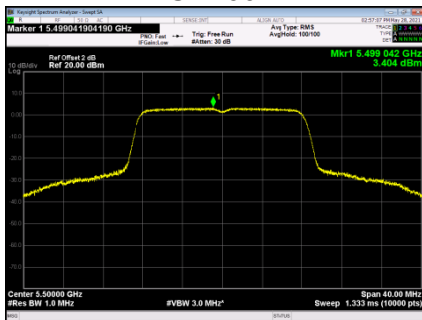
CH140



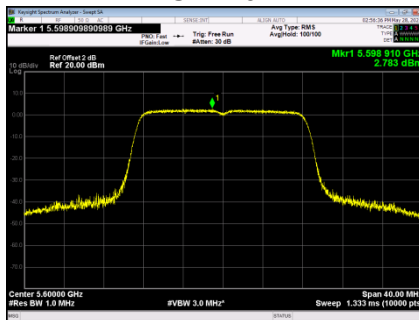
## UNII-2C\_TX A Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 3.404                            | 0.00        | 3.404                                          | 11.00                | PASS   |
| 120     | 5600            | 2.783                            | 0.00        | 2.783                                          | 11.00                | PASS   |
| 140     | 5700            | 3.440                            | 0.00        | 3.440                                          | 11.00                | PASS   |

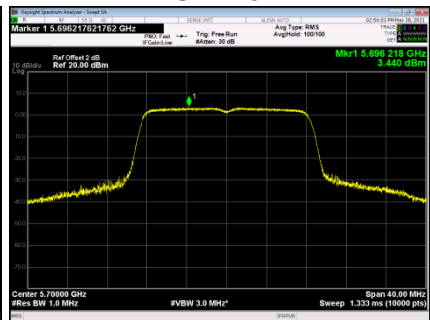
CH100



CH120



CH140



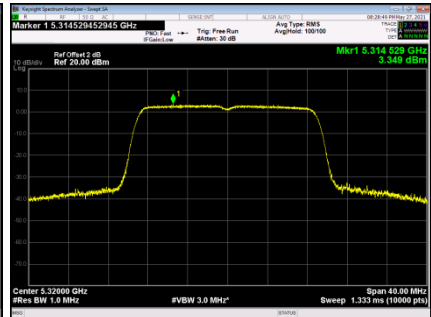
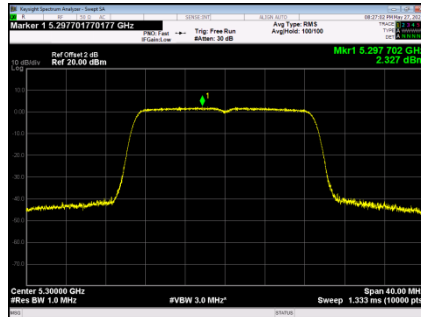
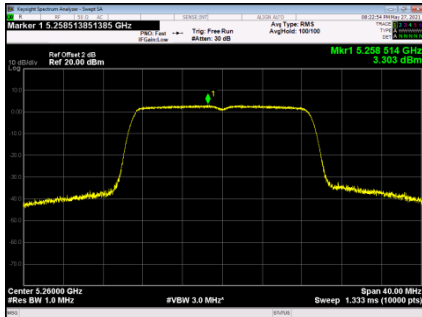
## UNII-2A\_TX N (HT20) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 3.303                            | 0.00        | 3.303                                          | 11.00                | PASS   |
| 60      | 5300            | 2.327                            | 0.00        | 2.327                                          | 11.00                | PASS   |
| 64      | 5320            | 3.349                            | 0.00        | 3.349                                          | 11.00                | PASS   |

CH52

CH60

CH64



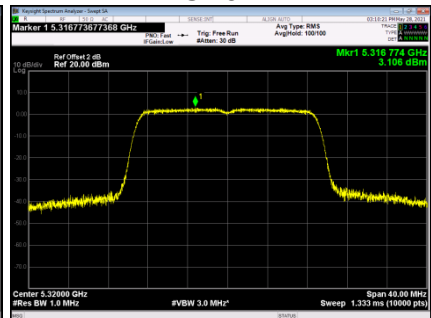
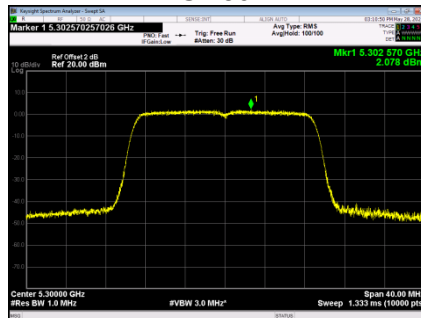
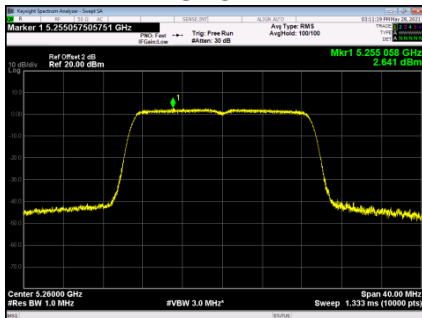
## UNII-2A\_TX N (HT20) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 2.641                            | 0.00        | 2.641                                          | 11.00                | PASS   |
| 60      | 5300            | 2.078                            | 0.00        | 2.078                                          | 11.00                | PASS   |
| 64      | 5320            | 3.106                            | 0.00        | 3.106                                          | 11.00                | PASS   |

CH52

CH60

CH64



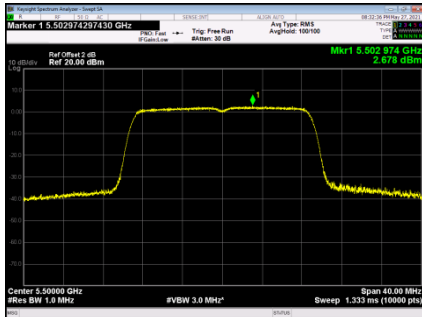
## UNII-2A\_TX N (HT20) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 52      | 5260            | 5.99                             | 11.00                | PASS   |
| 60      | 5300            | 5.21                             | 11.00                | PASS   |
| 64      | 5320            | 6.24                             | 11.00                | PASS   |

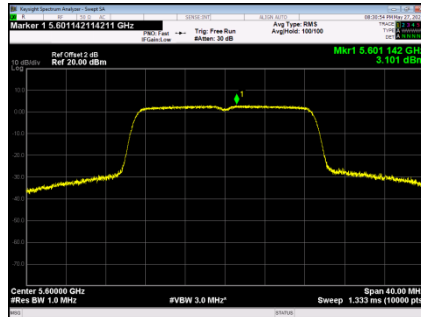
## UNII-2C\_TX N (HT20) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 2.678                            | 0.00        | 2.678                                          | 11.00                | PASS   |
| 120     | 5600            | 3.101                            | 0.00        | 3.101                                          | 11.00                | PASS   |
| 140     | 5700            | 3.552                            | 0.00        | 3.552                                          | 11.00                | PASS   |

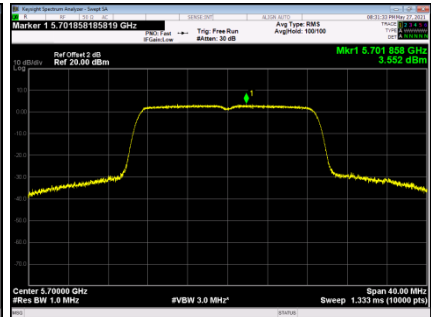
CH100



CH120



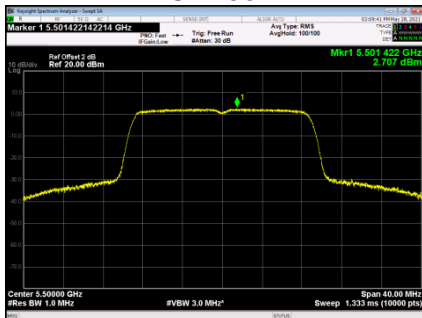
CH140



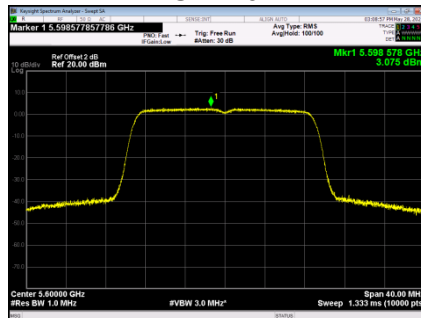
## UNII-2C\_TX N (HT20) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 2.707                            | 0.00        | 2.707                                          | 11.00                | PASS   |
| 120     | 5600            | 3.075                            | 0.00        | 3.075                                          | 11.00                | PASS   |
| 140     | 5700            | 2.420                            | 0.00        | 2.420                                          | 11.00                | PASS   |

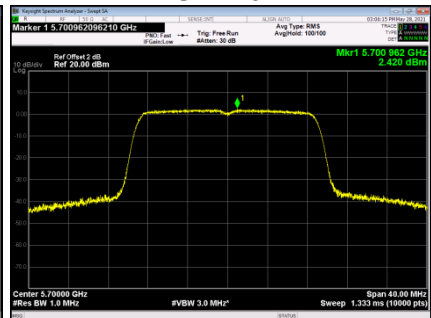
CH100



CH120



CH140



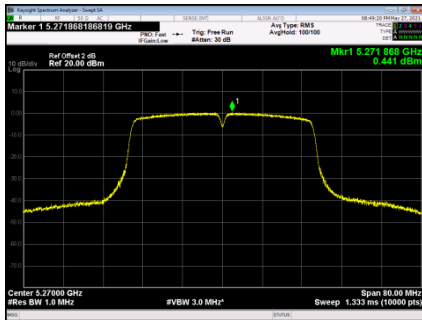
## UNII-2C\_TX N (HT20) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 100     | 5500            | 3.72                             | 11.00                | PASS   |
| 120     | 5600            | 4.07                             | 11.00                | PASS   |
| 140     | 5700            | 4.01                             | 11.00                | PASS   |

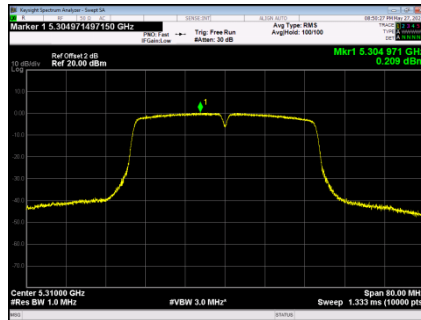
## UNII-2A\_TX N (HT40) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 54      | 5270            | 0.441                            | 0.00        | 0.441                                          | 11.00                | PASS   |
| 62      | 5310            | 0.209                            | 0.00        | 0.209                                          | 11.00                | PASS   |

CH54



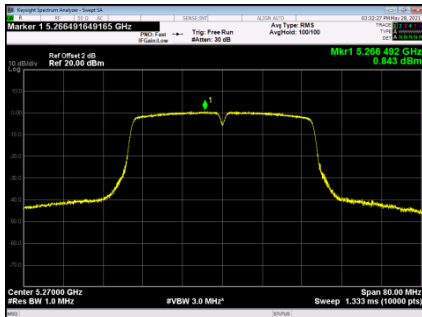
CH62



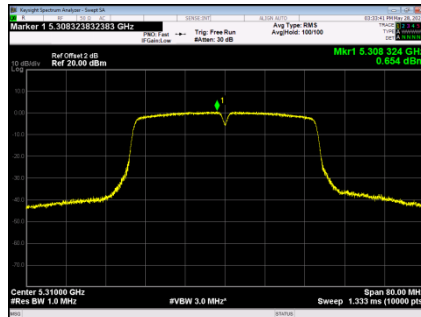
## UNII-2A\_TX N (HT40) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 54      | 5270            | 0.843                            | 0.00        | 0.843                                          | 11.00                | PASS   |
| 62      | 5310            | 0.645                            | 0.00        | 0.645                                          | 11.00                | PASS   |

CH54



CH62



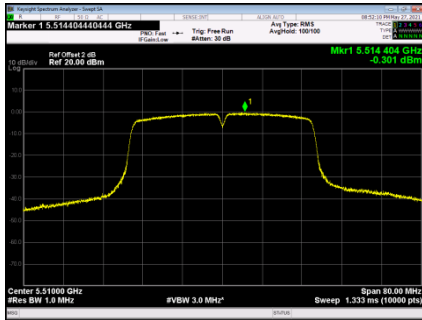
## UNII-2A\_TX N (HT40) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 54      | 5270            | 3.66                             | 11.00                | PASS   |
| 62      | 5310            | 3.44                             | 11.00                | PASS   |

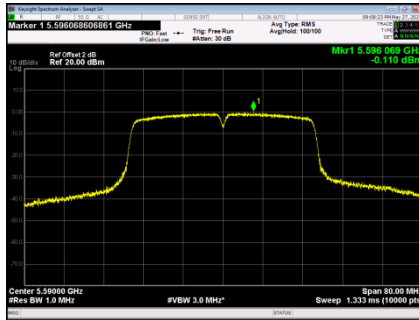
## UNII-2C\_TX N (HT40) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 102     | 5510            | -0.301                           | 0.00        | -0.301                                         | 11.00                | PASS   |
| 118     | 5590            | -0.110                           | 0.00        | -0.110                                         | 11.00                | PASS   |
| 134     | 5670            | -0.102                           | 0.00        | -0.102                                         | 11.00                | PASS   |

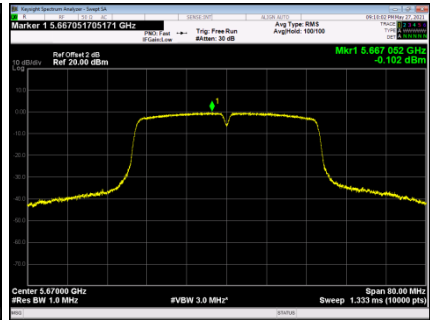
CH102



CH118



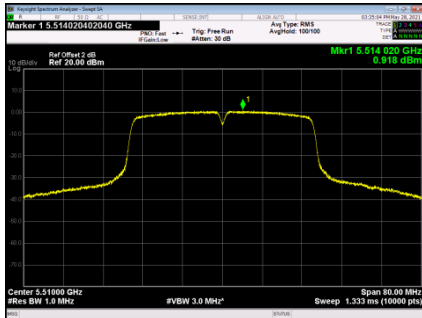
CH134



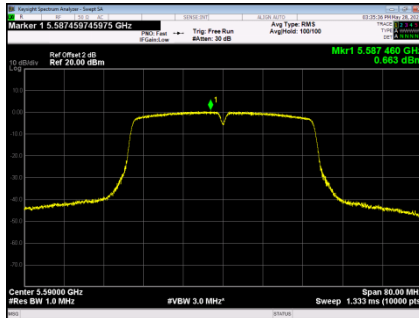
## UNII-2C\_TX N (HT40) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 102     | 5510            | 0.918                            | 0.00        | 0.918                                          | 11.00                | PASS   |
| 118     | 5590            | 0.663                            | 0.00        | 0.663                                          | 11.00                | PASS   |
| 134     | 5670            | 0.240                            | 0.00        | 0.240                                          | 11.00                | PASS   |

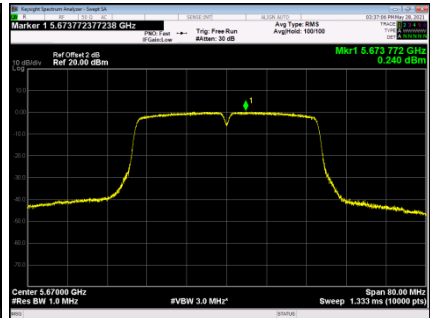
CH102



CH118



CH134



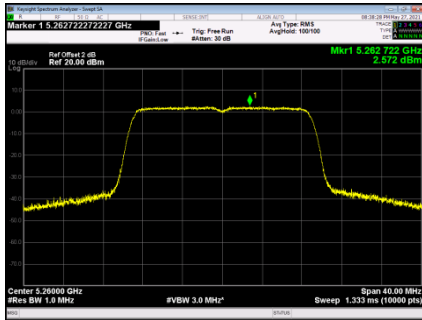
## UNII-2C\_TX N (HT40) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 102     | 5510            | 3.36                             | 11.00                | PASS   |
| 118     | 5590            | 3.30                             | 11.00                | PASS   |
| 134     | 5670            | 3.08                             | 11.00                | PASS   |

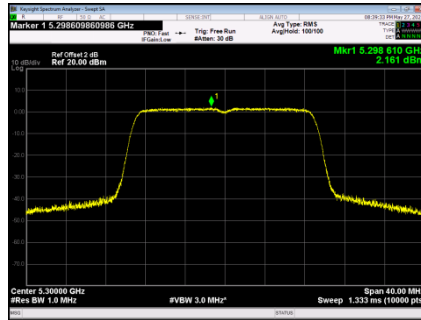
## UNII-2A\_TX AC (VHT20) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 2.572                            | 0.00        | 2.572                                          | 11.00                | PASS   |
| 60      | 5300            | 2.161                            | 0.00        | 2.161                                          | 11.00                | PASS   |
| 64      | 5320            | 2.358                            | 0.00        | 2.358                                          | 11.00                | PASS   |

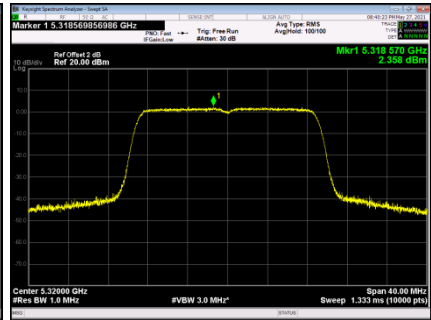
CH52



CH60



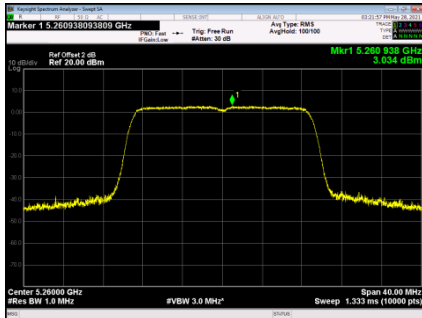
CH64



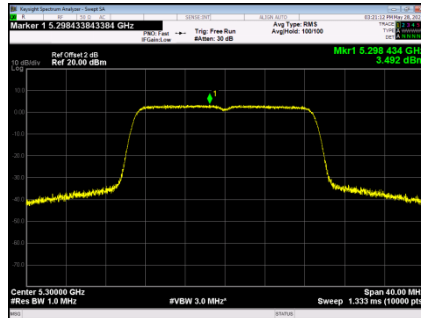
## UNII-2A\_TX AC (VHT20) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 52      | 5260            | 3.034                            | 0.00        | 3.034                                          | 11.00                | PASS   |
| 60      | 5300            | 3.492                            | 0.00        | 3.492                                          | 11.00                | PASS   |
| 64      | 5320            | 3.011                            | 0.00        | 3.011                                          | 11.00                | PASS   |

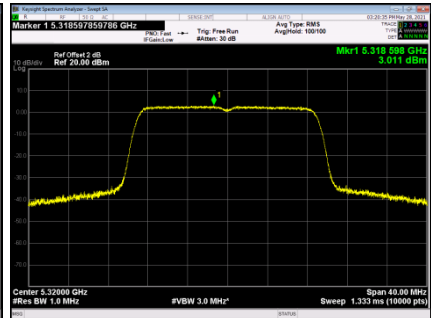
CH52



CH60



CH64



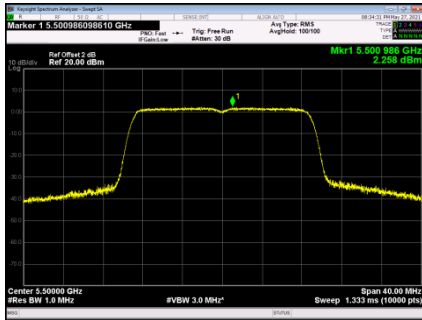
## UNII-2A\_TX AC (VHT20) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 52      | 5260            | 5.82                             | 11.00                | PASS   |
| 60      | 5300            | 5.89                             | 11.00                | PASS   |
| 64      | 5320            | 5.71                             | 11.00                | PASS   |

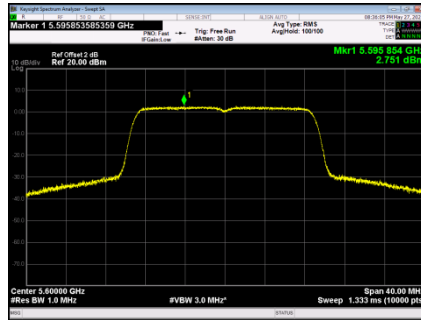
## UNII-2C\_TX AC (VHT20) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 2.258                            | 0.00        | 2.258                                          | 11.00                | PASS   |
| 120     | 5600            | 2.751                            | 0.00        | 2.751                                          | 11.00                | PASS   |
| 140     | 5700            | 3.088                            | 0.00        | 3.088                                          | 11.00                | PASS   |

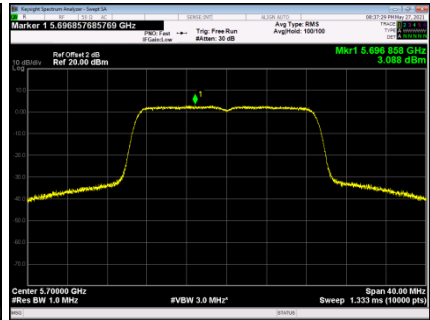
CH100



CH120



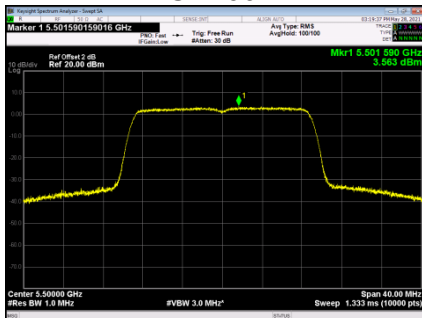
CH140



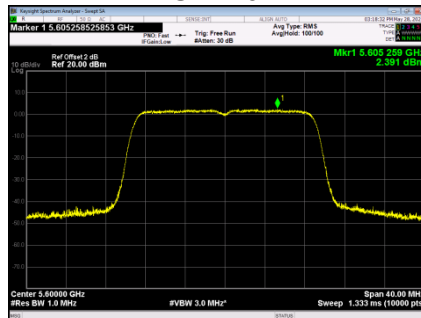
## UNII-2C\_TX AC (VHT20) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 100     | 5500            | 3.563                            | 0.00        | 3.563                                          | 11.00                | PASS   |
| 120     | 5600            | 2.931                            | 0.00        | 2.931                                          | 11.00                | PASS   |
| 140     | 5700            | 3.165                            | 0.00        | 3.165                                          | 11.00                | PASS   |

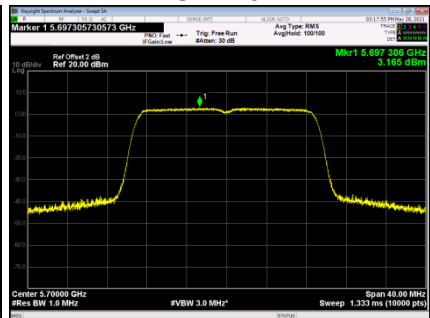
CH100



CH120



CH140



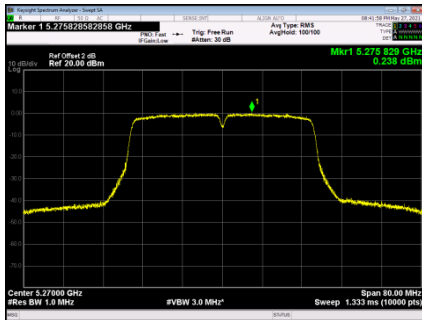
## UNII-2C\_TX AC (VHT20) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 100     | 5500            | 5.71                             | 11.00                | PASS   |
| 120     | 5600            | 5.85                             | 11.00                | PASS   |
| 140     | 5700            | 6.14                             | 11.00                | PASS   |

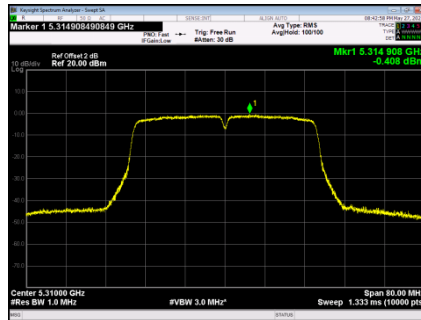
## UNII-2A\_TX AC (VHT40) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 54      | 5270            | 0.238                            | 0.00        | 0.238                                          | 11.00                | PASS   |
| 62      | 5310            | -0.408                           | 0.00        | -0.408                                         | 11.00                | PASS   |

CH54



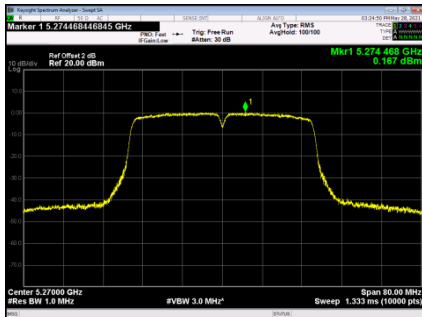
CH62



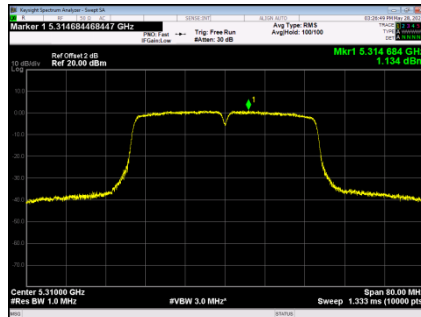
## UNII-2A\_TX AC (VHT40) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 54      | 5270            | 0.167                            | 0.00        | 0.167                                          | 11.00                | PASS   |
| 62      | 5310            | 1.134                            | 0.00        | 1.134                                          | 11.00                | PASS   |

CH54



CH62



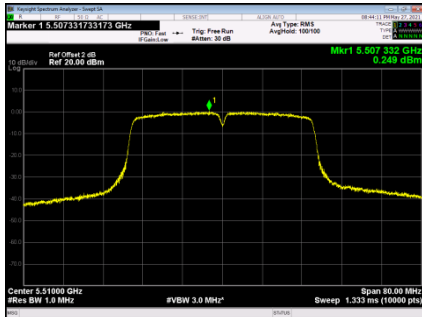
## UNII-2A\_TX AC (VHT40) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 54      | 5270            | 3.21                             | 11.00                | PASS   |
| 62      | 5310            | 3.44                             | 11.00                | PASS   |

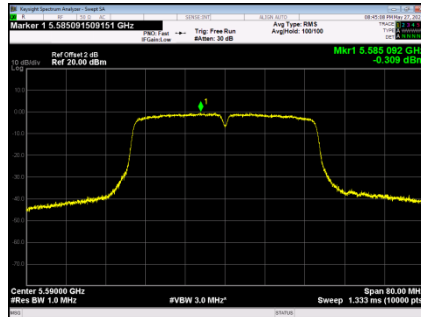
## UNII-2C\_TX AC (VHT40) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 102     | 5510            | 0.249                            | 0.00        | 0.249                                          | 11.00                | PASS   |
| 118     | 5590            | -0.309                           | 0.00        | -0.309                                         | 11.00                | PASS   |
| 134     | 5670            | 0.601                            | 0.00        | 0.601                                          | 11.00                | PASS   |

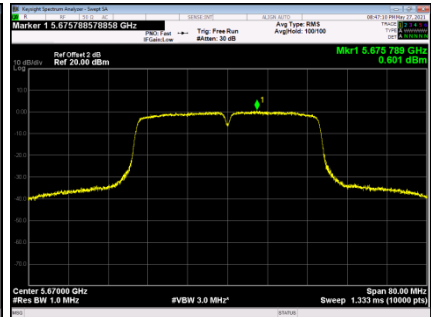
CH102



CH118



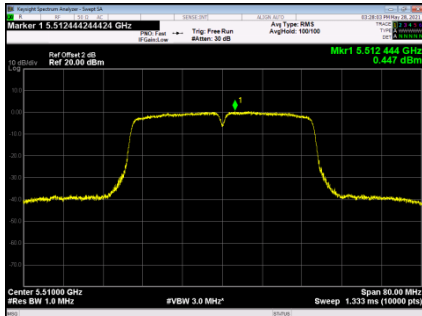
CH134



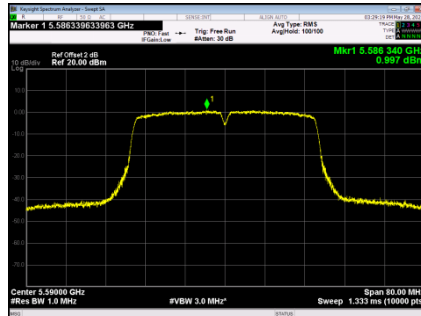
## UNII-2C\_TX AC (VHT40) Mode\_Ant 2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 102     | 5510            | 0.447                            | 0.00        | 0.447                                          | 11.00                | PASS   |
| 118     | 5590            | 0.997                            | 0.00        | 0.997                                          | 11.00                | PASS   |
| 134     | 5670            | 0.806                            | 0.00        | 0.806                                          | 11.00                | PASS   |

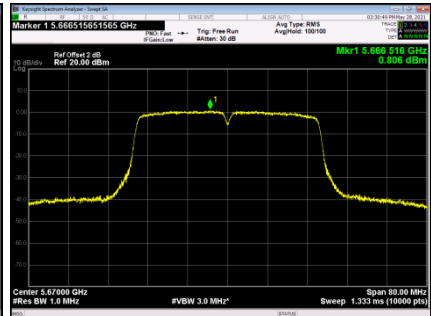
CH102



CH118



CH134



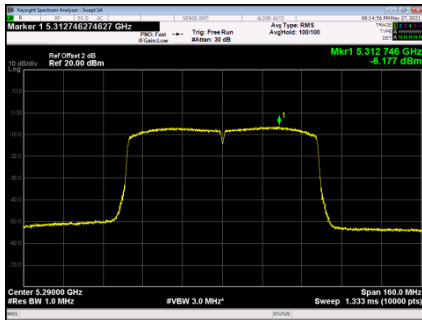
## UNII-2C\_TX AC (VHT40) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 102     | 5510            | 3.36                             | 11.00                | PASS   |
| 118     | 5590            | 3.40                             | 11.00                | PASS   |
| 134     | 5670            | 3.72                             | 11.00                | PASS   |

## UNII-2A\_TX AC (VHT80) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 58      | 5290            | -6.177                           | 0.00        | -6.177                                         | 11.00                | PASS   |

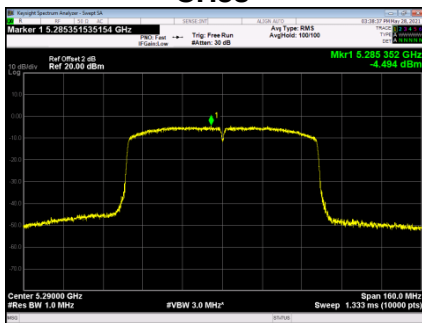
### CH58



## UNII-2A\_TX AC (VHT80) Mode\_Ant2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 58      | 5290            | -4.494                           | 0.00        | -4.494                                         | 11.00                | PASS   |

### CH58



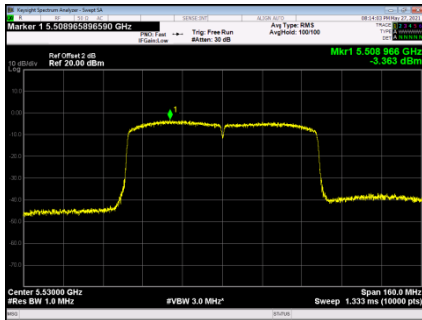
## UNII-2A\_TX AC (VHT80) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 58      | 5290            | -2.24                            | 11.00                | PASS   |

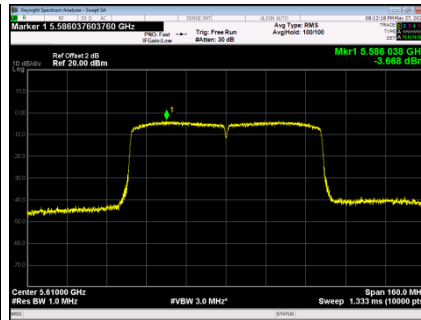
## UNII-2C\_TX AC (VHT80) Mode\_Ant 1

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 106     | 5530            | -3.363                           | 0.00        | -3.363                                         | 11.00                | PASS   |
| 122     | 5610            | -3.668                           | 0.00        | -3.668                                         | 11.00                | PASS   |

CH106



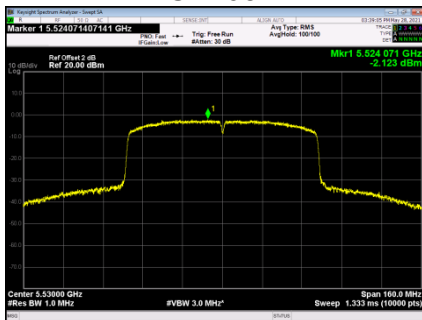
CH122



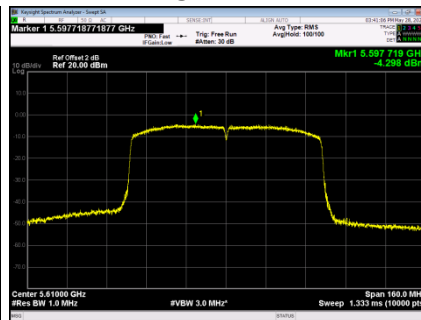
## UNII-2C\_TX AC (VHT80) Mode\_Ant2

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Duty Factor | Power Spectral Density + Duty Factor (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|-------------|------------------------------------------------|----------------------|--------|
| 106     | 5530            | -2.123                           | 0.00        | -2.213                                         | 11.00                | PASS   |
| 122     | 5610            | -4.298                           | 0.00        | -4.298                                         | 11.00                | PASS   |

CH106



CH122



## UNII-2C\_TX AC (VHT80) Mode\_Total

| Channel | Frequency (MHz) | Power Spectral Density (dBm/MHz) | Max. Limit (dBm/MHz) | Result |
|---------|-----------------|----------------------------------|----------------------|--------|
| 106     | 5530            | 0.26                             | 11.00                | PASS   |
| 122     | 5610            | -0.96                            | 11.00                | PASS   |

## 9. FREQUENCY STABILITY MEASUREMENT

### 9.1. LIMIT

| FCC Part15, Subpart E (15.407)&RSS-GEN |                     |                                |                       |
|----------------------------------------|---------------------|--------------------------------|-----------------------|
| Section                                | Test Item           | Limit                          | Frequency Range (MHz) |
| 15.407(g)<br>RSS-GEN 6.11              | Frequency Stability | Specified in the user's manual | 5150-5250             |
|                                        |                     |                                | 5725-5850             |

### 9.2. TEST PROCEDURE AND SETTING

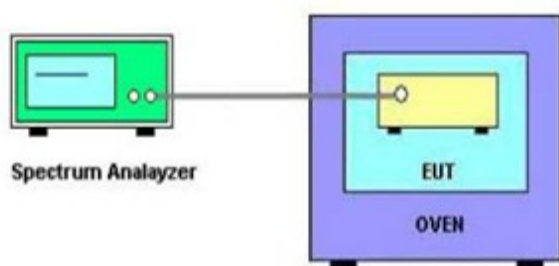
- a. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram below.
- b. Spectrum Setting:

| Spectrum Parameter | Setting                                          |
|--------------------|--------------------------------------------------|
| Attenuation        | Auto                                             |
| Span Frequency     | Entire absence of modulation emissions bandwidth |
| RBW                | 10 kHz                                           |
| VBW                | 10kHz                                            |
| Sweep Time         | Auto                                             |

### 9.3. MEASUREMENT INSTRUMENTS LIST

| Item | Kind of Equipment        | Manufacturer      | Type No.    | Serial No.    | Calibrated until |
|------|--------------------------|-------------------|-------------|---------------|------------------|
| 1    | Spectrum analyzer        | KEYSIGHT          | N9010A      | MY55150427    | 2022/05/23       |
| 2    | Attenuator               | Mini-Circuits     | BW-S10W2    | 101109        | N/A              |
| 3    | RF Cable                 | Mi-cable          | C10-01-01-1 | 100309        | N/A              |
| 4    | Temperature conditioning | Guan Jian.HTH1000 | -20-130°C   | GJ1000-10D001 | N/A              |
| 5    | DC Power Supply          | G.KE              | IPR-10010D  | 010931954     | N/A              |

### 9.4. TEST SETUP



### 9.5. EUT OPERATION CONDITIONS

The EUT was programmed to be in continuously transmitting mode.

**9.6. TEST RESULTS**

| Temperature vs. Frequency Stability-UNII-2A |             |                             |
|---------------------------------------------|-------------|-----------------------------|
| Voltage                                     | Temperature | Measurement Frequency (MHz) |
| 3.3V                                        | (°C)        | 5260                        |
|                                             | -20         | 5260.0377                   |
|                                             | 25          | 5260.0377                   |
|                                             | 50          | 5260.0376                   |
| 2.1V                                        | 25          | 5260.0377                   |
| Max. Deviation (MHz)                        |             | 0.0376                      |
| Max. Deviation (ppm)                        |             | 7.17                        |

| Temperature vs. Frequency Stability-UNII-2C |             |                             |
|---------------------------------------------|-------------|-----------------------------|
| Voltage                                     | Temperature | Measurement Frequency (MHz) |
| 3.3V                                        | (°C)        | 5500                        |
|                                             | -20         | 5500.0378                   |
|                                             | 25          | 5500.0378                   |
|                                             | 50          | 5500.0377                   |
| 2.1V                                        | 25          | 5500.0377                   |
| Max. Deviation (MHz)                        |             | 0.0378                      |
| Max. Deviation (ppm)                        |             | 6.87                        |

Note: 2.1 V is the end point voltage, and products below 2.1V will cease working.

**END OF TEST REPORT**