



**CFR 47 FCC PART 15 SUBPART E  
ISED RSS-247 ISSUE 2**

**CERTIFICATION TEST REPORT**

*For*

**Shopify POS Go**

**MODEL NUMBER: S2001**

**FCC ID: 2AB7X-S2001**

**IC: 24244-S2001**

**REPORT NUMBER: 4790096770-7**

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Revision History

| Rev. | Issue Date | Revisions     | Revised By |
|------|------------|---------------|------------|
| V0   | 01/26/2022 | Initial Issue |            |



| Summary of Test Results   |   |  |              |
|---|---|--|--------------|
| Clause  | Test Items                                | FCC/IC Rules   | Test Results |
| 1   | 6dB/26dB Bandwidth                        | FCC 15.407 (a)&(e)<br>RSS-247 Clause 6.2   | PASS         |
| 2   | 99% Occupied Bandwidth                    | RSS-Gen Clause 6.7   | PASS         |
| 3   | Conducted Output Power                    | FCC 15.407 (a)<br>RSS-247 Clause 6.2   | PASS         |
| 4   | Power Spectral Density                    | FCC 15.407 (a)<br>RSS-247 Clause 6.2   | PASS         |
| 5   | Radiated Bandedge and Spurious Emission   | FCC 15.407 (b)<br>FCC 15.209<br>FCC 15.205<br>RSS-247 Clause 6.2<br>RSS-GEN Clause 8.9 | PASS         |
| 6   | Conducted Emission Test for AC Power Port | FCC 15.207<br>RSS-GEN Clause 8.8   | PASS         |
| 7   | Frequency Stability                       | FCC 15.407 (g)   | PASS         |
| 8   | Dynamic Frequency Selection               | FCC 15.407 (h)<br>RSS-247 Clause 6.3   | PASS         |
| 9   | Antenna Requirement                       | FCC 15.203<br>RSS-GEN Clause 6.8   | PASS         |
| <p>Note:</p> <p>1.This test report is only published to and used by the applicant, and it is not for evidence purpose in China.</p> <p>2. The measurement result for the sample received is &lt;Pass&gt; according to &lt; CFR 47 FCC PART 15 SUBPART E &gt;&lt; ISED RSS-247 &gt; when &lt;Accuracy Method&gt; decision rule is applied.</p> |   |  |              |



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## 1. ATTESTATION OF TEST RESULTS

**Applicant  
Information(FCC)**

Company Name: BBPOS International Limited  
Address: Suite 1903-04, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong

**Manufacturer  
Information(FCC)**

Company Name: BBPOS International Limited  
Address: Suite 1903-04, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong

**Applicant  
Information(ISED)**

Company Name: Shopify Inc  
Address: 150 Elgin Street Ottawa ON K2P1L4 Canada

**Manufacturer  
Information(ISED)**

Company Name: BBPOS International Limited  
Address: Suite 1903-04, Tower 2, Nina Tower, 8 Yeung Uk Road, Tsuen Wan, NT, Hong Kong  
Brand: Shopify  
Sample Status: Normal  
Sample ID: 4378334  
Date of Tested: November 1, 2021, ~ January 21 2022

| APPLICABLE STANDARDS         |              |
|------------------------------|--------------|
| STANDARD                     | TEST RESULTS |
| CFR 47 FCC PART 15 SUBPART E | PASS         |
| ISED RSS-247 Issue 2         | PASS         |
| ISED RSS-GEN Issue 5         | PASS         |

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## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.10-2013, CFR 47 FCC Part 2, CFR 47 FCC Part 15, KDB 789033 D02 v02r01, RSS-GEN Issue 5, RSS-247 Issue 2, KDB414788 D01 Radiated Test Site v01r01, KDB 905462 D02 UNII DFS Compliance Procedures New Rules v02, KDB 905462 D03 UNII clients without radar detection New Rules v01r02, KDB 905462 D04 Operational Modes for DFS Testing New Rules v01 and KDB 905462 D06 802 11 Channel Plans New Rules v02.

## 3. FACILITIES AND ACCREDITATION

|                           |  |
|---------------------------|--|
| Accreditation Certificate | <p><b>A2LA (Certificate No.: 4102.01)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with A2LA.</p> <p><b>FCC (FCC Designation No.: CN1187)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. Has been recognized to perform compliance testing on equipment subject to the Commission's Declaration of Conformity (DoC) and Certification rules</p> <p><b>ISED (Company No.: 21320)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been registered and fully described in a report filed with ISED. The Company Number is 21320 and the test lab Conformity Assessment Body Identifier (CABID) is CN0046.</p> <p><b>VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)</b><br/>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. has been assessed and proved to be in compliance with VCCI, the Membership No. is 3793.<br/>Facility Name:<br/>Chamber D, the VCCI registration No. is G-20019 and R-20004<br/>Shielding Room B, the VCCI registration No. is C-20012 and T-20011</p> |
|---------------------------|--|

Note 1: All tests measurement facilities use to collect the measurement data are located at Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China

Note 2: The test anechoic chamber in UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch had been calibrated and compared to the open field sites and the test anechoic chamber is shown to be equivalent to or worst case from the open field site.

Note 3: For below 30 MHz, lab had performed measurements at test anechoic chamber and comparing to measurements obtained on an open field site. And these measurements below 30 MHz had been correlated to measurements performed on an OFS.



## 4. CALIBRATION AND UNCERTAINTY

### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations and is traceable to recognize national standards.

### 4.2. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

| Test Item   | Uncertainty               |
|---|---------------------------|
| Conduction emission   | 3.62 dB                   |
| Radiated Emission<br>(Included Fundamental Emission) (9 kHz ~ 30 MHz)   | 2.2 dB                    |
| Radiated Emission<br>(Included Fundamental Emission) (30 MHz ~ 1 GHz)   | 4.00 dB                   |
| Radiated Emission<br>(Included Fundamental Emission) (1 GHz to 26 GHz)  | 5.78 dB (1 GHz ~ 18 GHz)  |
|   | 5.23 dB (18 GHz ~ 26 GHz) |
| Duty Cycle  | ±0.028%                   |
| Emission Bandwidth and 99% Occupied Bandwidth   | ±0.0196%                  |
| Maximum Conducted Output Power  | ±0.766 dB                 |
| Maximum Power Spectral Density Level  | ±1.22 dB                  |
| Frequency Stability   | ±2.76%                    |
| Conducted Band-edge Compliance  | ±1.328 dB                 |
| Conducted Unwanted Emissions In Non-restricted<br>Frequency Bands   | ±0.746 dB (9 kHz ~ 1 GHz) |
|   | ±1.328dB (1 GHz ~ 26 GHz) |
| Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2. |                           |



## 5. EQUIPMENT UNDER TEST

### 5.1. DESCRIPTION OF EUT

|                     |   |
|---------------------|---|
| EUT Name            | Shopify POS Go  |
| Model               | S2001   |
| Radio Technology    | IEEE802.11a20<br>IEEE802.11n HT20/n HT40<br>IEEE802.11ac VHT20/VHT40/VHT80  |
| Operation frequency | UNII-1/ UNII-2A/ UNII-2C/UNII-3   |
| Modulation          | IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT20: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n HT40: OFDM (64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT20: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT40: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11ac VHT80: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK) |
| Ratings             | DC 5V 1.5A & DC 9V 1.5A   |
| Battery             | 3.85 Vdc, 3850 mAh, 14.82 Wh  |

## 5.2. MAXIMUM OUTPUT POWER

### UNII-1 BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power (dBm) | Max Average EIRP (dBm) |
|------------------|-----------------|---------------------------------------|------------------------|
| a20              | 5150 ~ 5250     | 16.87                                 | 15.53                  |
| n HT20           |                 | Covered by 802.11ac VHT20             |                        |
| n HT40           |                 | Covered by 802.11ac VHT40             |                        |
| ac VHT20         |                 | 17.44                                 | 15.9                   |
| ac VHT40         |                 | 17.63                                 | 16.09                  |
| ac VHT80         |                 | 17.41                                 | 15.87                  |

### UNII-2A BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power (dBm) |
|------------------|-----------------|---------------------------------------|
| a20              | 5250 ~ 5350     | 16.46                                 |
| n HT20           |                 | Covered by 802.11ac VHT20             |
| n HT40           |                 | Covered by 802.11ac VHT40             |
| ac VHT20         |                 | 16.33                                 |
| ac VHT40         |                 | 16.41                                 |
| ac VHT80         |                 | 16.44                                 |

### UNII-2C BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power (dBm) |
|------------------|-----------------|---------------------------------------|
| a20              | 5470 ~ 5725     | 16.32                                 |
| n HT20           |                 | Covered by 802.11ac VHT20             |
| n HT40           |                 | Covered by 802.11ac VHT40             |
| ac VHT20         |                 | 15.72                                 |
| ac VHT40         |                 | 15.98                                 |
| ac VHT80         |                 | 16.98                                 |

### UNII-3 BAND(FCC&ISED)

| IEEE Std. 802.11 | Frequency (MHz) | Maximum Average Conducted Power (dBm) |
|------------------|-----------------|---------------------------------------|
| a20              | 5725 ~ 5850     | 16.15                                 |
| n HT20           |                 | Covered by 802.11ac VHT20             |
| n HT40           |                 | Covered by 802.11ac VHT40             |
| ac VHT20         |                 | 15.45                                 |
| ac VHT40         |                 | 15.24                                 |
| ac VHT80         |                 | 15.96                                 |

### 5.3. CHANNEL LIST

| UNII-1<br>(For Bandwidth=20MHz) |                    | UNII-1<br>(For Bandwidth=40MHz) |                    | UNII-1<br>(For Bandwidth=80MHz) |                    |
|---------------------------------|--------------------|---------------------------------|--------------------|---------------------------------|--------------------|
| Channel                         | Frequency<br>(MHz) | Channel                         | Frequency<br>(MHz) | Channel                         | Frequency<br>(MHz) |
| 36                              | 5180               | 38                              | 5190               | 42                              | 5210               |
| 40                              | 5200               | 46                              | 5230               |                                 |                    |
| 44                              | 5220               |                                 |                    |                                 |                    |
| 48                              | 5240               |                                 |                    |                                 |                    |

| UNII-2A<br>(For Bandwidth=20MHz) |                    | UNII-2A<br>(For Bandwidth=40MHz) |                    | UNII-2A<br>(For Bandwidth=80MHz) |                    |
|----------------------------------|--------------------|----------------------------------|--------------------|----------------------------------|--------------------|
| Channel                          | Frequency<br>(MHz) | Channel                          | Frequency<br>(MHz) | Channel                          | Frequency<br>(MHz) |
| 52                               | 5260               | 54                               | 5270               | 58                               | 5290               |
| 56                               | 5280               | 62                               | 5310               |                                  |                    |
| 60                               | 5300               |                                  |                    |                                  |                    |
| 64                               | 5320               |                                  |                    |                                  |                    |

| UNII-2C<br>(For Bandwidth=20MHz) |                    | UNII-2C<br>(For Bandwidth=40MHz) |                    | UNII-2C<br>(For Bandwidth=80MHz) |                    |
|----------------------------------|--------------------|----------------------------------|--------------------|----------------------------------|--------------------|
| Channel                          | Frequency<br>(MHz) | Channel                          | Frequency<br>(MHz) | Channel                          | Frequency<br>(MHz) |
| 100                              | 5500               | 102                              | 5510               | 106                              | 5530               |
| 104                              | 5520               | 110                              | 5550               | 122                              | 5610               |
| 108                              | 5540               | 118                              | 5590               | 138                              | 5690               |
| 112                              | 5560               | 126                              | 5630               |                                  |                    |
| 116                              | 5580               | 134                              | 5670               |                                  |                    |
| 120                              | 5600               | 142                              | 5710               |                                  |                    |
| 124                              | 5620               |                                  |                    |                                  |                    |
| 128                              | 5640               |                                  |                    |                                  |                    |
| 132                              | 5660               |                                  |                    |                                  |                    |
| 136                              | 5680               |                                  |                    |                                  |                    |
| 140                              | 5700               |                                  |                    |                                  |                    |
| 144                              | 5720               |                                  |                    |                                  |                    |

| UNII-3  |                    | UNII-3  |                    | UNII-3  |                    |
|---------|--------------------|---------|--------------------|---------|--------------------|
| Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) | Channel | Frequency<br>(MHz) |
| 149     | 5745               | 151     | 5755               | 155     | 5775               |
| 153     | 5765               | 159     | 5795               |         |                    |
| 157     | 5785               |         |                    |         |                    |
| 161     | 5805               |         |                    |         |                    |
| 165     | 5825               |         |                    |         |                    |



#### 5.4. TEST CHANNEL CONFIGURATION

| UNII-1 Test Channel Configuration |  |                              |
|-----------------------------------|--|------------------------------|
| IEEE Std.                         | Test Channel Number  | Frequency                    |
| 802.11a                           | CH 36(Low Channel), CH 40(MID Channel),<br>CH 48(High Channel) | 5180 MHz, 5200 MHz, 5240 MHz |
| 802.11n HT20                      | CH 36(Low Channel), CH 40(MID Channel),<br>CH 48(High Channel) | 5180 MHz, 5200 MHz, 5240 MHz |
| 802.11n HT40                      | CH 38(Low Channel), CH 46(High Channel)                        | 5190 MHz, 5230 MHz           |
| 802.11ac<br>VHT20                 | CH 36(Low Channel), CH 40(MID Channel),<br>CH 48(High Channel) | 5180 MHz, 5200 MHz, 5240 MHz |
| 802.11ac<br>VHT40                 | CH 38(Low Channel), CH 46(High Channel)                        | 5190 MHz, 5230 MHz           |
| 802.11ac<br>VHT80                 | CH 42(Low Channel)   | 5210 MHz                     |

| UNII-2A Test Channel Configuration |  |                              |
|------------------------------------|--|------------------------------|
| IEEE Std.                          | Test Channel Number  | Frequency                    |
| 802.11a                            | CH 52(Low Channel), CH 56(MID Channel),<br>CH 64(High Channel) | 5260 MHz, 5280 MHz, 5320 MHz |
| 802.11n HT20                       | CH 52(Low Channel), CH 56(MID Channel),<br>CH 64(High Channel) | 5260 MHz, 5280 MHz, 5320 MHz |
| 802.11n HT40                       | CH 54(Low Channel), CH 62(High Channel)                        | 5270 MHz, 5310 MHz           |
| 802.11ac<br>VHT20                  | CH 52(Low Channel), CH 56(MID Channel),<br>CH 64(High Channel) | 5260 MHz, 5280 MHz, 5320 MHz |
| 802.11ac<br>VHT40                  | CH 54(Low Channel), CH 62(High Channel)                        | 5270 MHz, 5310 MHz           |
| 802.11ac<br>VHT80                  | CH 58(Low Channel)   | 5290 MHz                     |

| UNII-2C Test Channel Configuration |   |                              |
|------------------------------------|---|------------------------------|
| IEEE Std.                          | Test Channel Number   | Frequency                    |
| 802.11a                            | CH 100(Low Channel), CH 120(MID Channel),<br>CH 140(High Channel) | 5500 MHz, 5600 MHz, 5700 MHz |
| 802.11n VHT20                      | CH 100(Low Channel), CH 120(MID Channel),<br>CH 140(High Channel) | 5500 MHz, 5600 MHz, 5700 MHz |
| 802.11n VHT40                      | CH 102(Low Channel), CH 118(MID Channel),<br>CH 134(High Channel) | 5510 MHz, 5590 MHz, 5670 MHz |
| 802.11ac<br>VHT20                  | CH 100(Low Channel), CH 120(MID Channel),<br>CH 140(High Channel) | 5500MHz, 5600 MHz, 5700MHz   |
| 802.11ac<br>VHT40                  | CH 102(Low Channel), CH 118(MID Channel),<br>CH 134(High Channel) | 5510 MHz, 5590 MHz, 5670 MHz |
| 802.11ac<br>VHT80                  | CH 102(Low Channel), CH 122(High Channel)                         | 5530 MHz, 5610 MHz           |



| UNII-3 Test Channel Configuration |   |                              |
|-----------------------------------|---|------------------------------|
| IEEE Std.                         | Test Channel Number   | Frequency                    |
| 802.11a                           | CH 149(Low Channel), CH 157(MID Channel),<br>CH 165(High Channel) | 5745 MHz, 5785 MHz, 5825 MHz |
| 802.11n HT20                      | CH 149(Low Channel), CH 157(MID Channel),<br>CH 165(High Channel) | 5745 MHz, 5785 MHz, 5825 MHz |
| 802.11n HT40                      | CH 151(Low Channel), CH 159(High Channel)                         | 5755MHz, 5795MHz             |
| 802.11ac<br>VHT20                 | CH 149(Low Channel), CH 157(MID Channel),<br>CH 165(High Channel) | 5745 MHz, 5785 MHz, 5825 MHz |
| 802.11ac<br>VHT40                 | CH 151(Low Channel), CH 159(High Channel)                         | 5755 MHz, 5795 MHz           |
| 802.11ac<br>VHT80                 | CH 155(Low Channel)   | 5775 MHz                     |



### 5.5. DESCRIPTION OF AVAILABLE ANTENNAS

| Antenna No. | Frequency Band | Antenna Type | Max Antenna Gain (dBi) |
|-------------|----------------|--------------|------------------------|
| 1           | 5150-5850      | PIFA         | -1.34                  |

| IEE Std. 802.11   | Transmit and Receive Mode                    | Description  |
|---|--|--|
| 802.11a20   | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| 802.11n HT20  | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| 802.11n HT40  | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| 802.11ac VHT20  | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| 802.11ac VHT40  | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| 802.11ac VHT80  | <input checked="" type="checkbox"/> 1TX, 1RX | ANT 1 can be used as transmitting/receiving antenna. |
| Note:<br>1.BT&WLAN 2.4G, BT & WLAN 5G, WLAN 2.4G & WLAN 5G can't transmit simultaneously.<br>(declared by client) |  |  |

**5.6. THE WORSE CASE POWER SETTING PARAMETER**

| The Worse Case Power Setting Parameter |      |
|--|------|
| Test Software                          | QRCT |

## UNII-1

| Mode       | Rate | Channel | Soft set value |
|------------|------|---------|----------------|
|            |      |         | ANT 1          |
| 11a20      | 6M   | 36      | 15             |
|            |      | 40      | 15             |
|            |      | 48      | 15             |
| 11n HT20   | MCS0 | 36      | 15             |
|            |      | 40      | 15             |
|            |      | 48      | 15             |
| 11n HT40   | MCS0 | 38      | 15             |
|            |      | 46      | 15             |
| 11ac VHT80 | MCS0 | 42      | 15             |

## UNII-2A

| Mode       | Rate | Channel | Soft set value |
|------------|------|---------|----------------|
|            |      |         | ANT 1          |
| 11a        | 6M   | 52      | 15             |
|            |      | 56      | 15             |
|            |      | 64      | 15             |
| 11n HT20   | MCS0 | 52      | 15             |
|            |      | 56      | 15             |
|            |      | 64      | 15             |
| 11n HT40   | MCS0 | 54      | 15             |
|            |      | 62      | 15             |
| 11ac VHT80 | MCS0 | 58      | 15             |





## UNII-2C

| Mode       | Rate | Channel | Soft set value |
|------------|------|---------|----------------|
|            |      |         | ANT 1          |
| 11a        | 6M   | 100     | 15             |
|            |      | 116     | 15             |
|            |      | 140     | 15             |
|            |      | 144     | 15             |
| 11n HT20   | MCS0 | 100     | 15             |
|            |      | 116     | 15             |
|            |      | 140     | 15             |
|            |      | 144     | 15             |
| 11n HT40   | MCS0 | 102     | 15             |
|            |      | 118     | 15             |
|            |      | 134     | 15             |
|            |      | 142     | 15             |
| 11ac VHT80 | MCS0 | 106     | 15             |
|            |      | 122     | 15             |
|            |      | 138     | 15             |

## UNII-3

| Mode       | Rate | Channel | Soft set value |
|------------|------|---------|----------------|
|            |      |         | ANT1           |
| 11a        | 6M   | 149     | 15             |
|            |      | 157     | 15             |
|            |      | 165     | 15             |
| 11n HT20   | MCS0 | 149     | 15             |
|            |      | 157     | 15             |
|            |      | 165     | 15             |
| 11n HT40   | MCS0 | 151     | 15             |
|            |      | 159     | 15             |
| 11ac VHT80 | MCS0 | 155     | 15             |

## 5.7. THE WORSE CASE CONFIGURATIONS

The EUT was tested in the following configuration(s):

Controlled in test mode using a software application on the EUT supplied by customer. The application was used to enable a continuous transmission and to select the mode, test channels, bandwidth, data rates as required.

Test channels referring to section 5.4.

Maximum power setting referring to section 5.6.

Worst case Data Rates declared by the customer:

802.11a 20 mode: 6 Mbps  
802.11n HT20 mode: MCS0  
802.11n HT40 mode: MCS0  
802.11ac VHT20 mode: MCS0  
802.11ac VHT40 mode: MCS0  
802.11ac VHT80 mode: MCS0

The measured additional path loss was included in any path loss calculations for all RF cable used during tested.

## 5.8. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | Remarks  |
|------|-----------|------------|------------|--|
| 1    | Laptop    | Lenovo     | T430       | /  |
| 2    | Adapter   | nubia      | PA0202     | Input: 100-240V~50/60Hz, 1.5A<br>Output: 5V 3A, 9V3A |
| 3    | Earphone  | apple      | N/A        | N/A  |

### I/O CABLES

| Cable No | Port   | Connector Type | Cable Type | Cable Length(m) | Remarks                |
|----------|--------|----------------|------------|-----------------|------------------------|
| 1        | Type-C | /              | /          | 1.0             | No Ferrite Core shield |

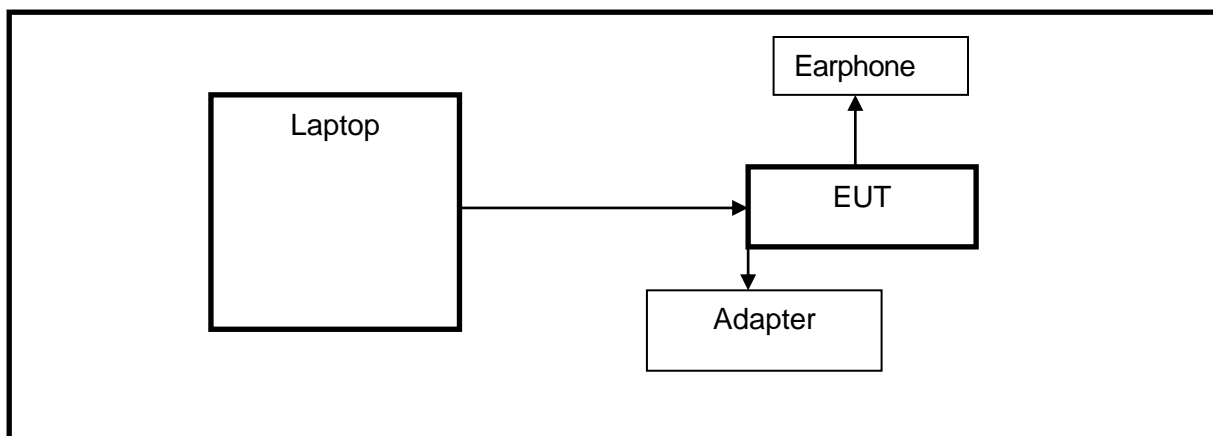
### ACCESSORIES

| Item | Accessory | Brand Name | Model Name | Description |
|------|-----------|------------|------------|-------------|
| /    | /         | /          | /          | /           |

### TEST SETUP

The EUT can work in engineering mode with a software through a laptop.

### SETUP DIAGRAM FOR TESTS



Note: Adapter only use for AC POWER LINE CONDUCTED EMISSIONS testing.



## 6. MEASURING INSTRUMENT AND SOFTWARE USED

| R&S TS 8997 Test System             |                 |                         |                  |              |              |
|-------------------------------------|-----------------|-------------------------|------------------|--------------|--------------|
| Equipment                           | Manufacturer    | Model No.               | Serial No.       | Last Cal.    | Due. Date    |
| Power sensor, Power Meter           | R&S             | OSP120                  | 100921           | Mar.23,2021  | Mar.22,2022  |
| Vector Signal Generator             | R&S             | SMBV100A                | 261637           | Oct.30, 2021 | Oct.29, 2022 |
| Signal Generator                    | R&S             | SMB100A                 | 178553           | Oct.30, 2021 | Oct.29, 2022 |
| Signal Analyzer                     | R&S             | FSV40                   | 101118           | Oct.30, 2021 | Oct.29, 2022 |
| Software                            |                 |                         |                  |              |              |
| Description                         | Manufacturer    |                         | Name             |              | Version      |
| For R&S TS 8997 Test System         | Rohde & Schwarz |                         | EMC 32           |              | 10.60.10     |
| Tonsend RF Test System              |                 |                         |                  |              |              |
| Equipment                           | Manufacturer    | Model No.               | Serial No.       | Last Cal.    | Due. Date    |
| Wideband Radio Communication Tester | R&S             | CMW500                  | 155523           | Oct.30, 2021 | Oct.29, 2022 |
| Wireless Connectivity Tester        | R&S             | CMW270                  | 1201.0002N75-102 | Sep.29, 2021 | Sep.28, 2022 |
| PXA Signal Analyzer                 | Keysight        | N9030A                  | MY55410512       | Oct.30, 2021 | Oct.29, 2022 |
| MXG Vector Signal Generator         | Keysight        | N5182B                  | MY56200284       | Oct.30, 2021 | Oct.29, 2022 |
| MXG Vector Signal Generator         | Keysight        | N5172B                  | MY56200301       | Oct.30, 2021 | Oct.29, 2022 |
| DC power supply                     | Keysight        | E3642A                  | MY55159130       | Oct.30, 2021 | Oct.29, 2022 |
| Temperature & Humidity Chamber      | SANMOOD         | SG-80-CC-2              | 2088             | Nov.20,2020  | Nov.19,2022  |
| Software                            |                 |                         |                  |              |              |
| Description                         | Manufacturer    | Name                    |                  | Version      |              |
| Tonsend SRD Test System             | Tonsend         | JS1120-3 RF Test System |                  | 2.6.77.0518  |              |



| Radiated Emissions                   |               |                                  |               |               |               |
|--------------------------------------|---------------|----------------------------------|---------------|---------------|---------------|
| Equipment                            | Manufacturer  | Model No.                        | Serial No.    | Last Cal.     | Due Date      |
| MXE EMI Receiver                     | KESIGHT       | N9038A                           | MY56400036    | Oct.30, 2021  | Oct.29, 2022  |
| Hybrid Log Periodic Antenna          | TDK           | HLP-3003C                        | 130959        | Aug.02, 2021  | Aug.01, 2024  |
| Preamplifier                         | HP            | 8447D                            | 2944A09099    | Oct.30, 2021  | Oct.29, 2022  |
| EMI Measurement Receiver             | R&S           | ESR26                            | 101377        | Oct.30, 2021  | Oct.29, 2022  |
| Horn Antenna                         | TDK           | HRN-0118                         | 130940        | July 20, 2021 | July 19, 2024 |
| Preamplifier                         | TDK           | PA-02-0118                       | TRS-305-00067 | Oct.30, 2021  | Oct.29, 2022  |
| Horn Antenna                         | Schwarzbeck   | BBHA9170                         | 697           | July 20, 2021 | July 19, 2024 |
| Preamplifier                         | TDK           | PA-02-2                          | TRS-307-00003 | Oct.31, 2021  | Oct.30, 2022  |
| Preamplifier                         | TDK           | PA-02-3                          | TRS-308-00002 | Oct.31, 2021  | Oct.30, 2022  |
| Loop antenna                         | Schwarzbeck   | 1519B                            | 00008         | Jan.17, 2019  | Jan.17,2022   |
| Preamplifier                         | TDK           | PA-02-001-3000                   | TRS-302-00050 | Oct.31, 2021  | Oct.30, 2022  |
| Preamplifier                         | Mini-Circuits | ZX60-83LN-S+                     | SUP01201941   | Oct.31, 2021  | Oct.30, 2022  |
| Highpass Filter                      | Wainwright    | WHKX10-5850-6500-1800-40SS       | 4             | Oct.31, 2021  | Oct.30, 2022  |
| Band Reject Filter                   | Wainwright    | WRCJV12-5695-5725-5850-5880-40SS | 4             | Oct.31, 2021  | Oct.30, 2022  |
| Band Reject Filter                   | Wainwright    | WRCJV20-5120-5150-5350-5380-60SS | 2             | Oct.31, 2021  | Oct.30, 2022  |
| Band Reject Filter                   | Wainwright    | WRCJV20-5440-5470-5725-5755-60SS | 1             | Oct.31, 2021  | Oct.30, 2022  |
| Software                             |               |                                  |               |               |               |
| Description                          |               |                                  | Manufacturer  | Name          | Version       |
| Test Software for Radiated Emissions |               |                                  | Farad         | EZ-EMC        | Ver. UL-3A1   |



## 7. ANTENNA PORT TEST RESULTS

### 7.1. ON TIME AND DUTY CYCLE

#### LIMITS

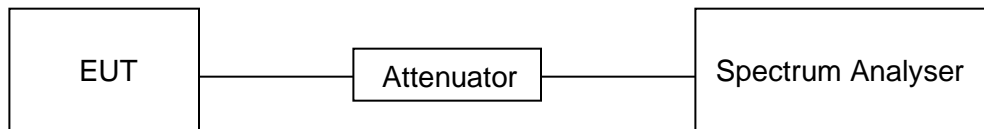
None; for reporting purposes only.

#### PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.B.

The zero-span mode on a spectrum analyzer or EMI receiver, if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal. Set the center frequency of the instrument to the center frequency of the transmission. Set  $RBW \geq EBW$  if possible; otherwise, set RBW to the largest available value. Set  $VBW \geq RBW$ . Set detector = peak or average. The zero-span measurement method shall not be used unless both RBW and VBW are  $> 50/T$ , where T is defined in II.B.1.a), and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if  $T \leq 16.7$  microseconds.)

#### TEST SETUP



#### TEST ENVIRONMENT

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 23.1 °C | Relative Humidity | 43.1 %    |
| Atmosphere Pressure | 101 kPa | Test Voltage      | DC 3.85 V |

#### RESULTS

Please refer to appendix D.



## 7.2. 6/26 dB EMISSION BANDWIDTH AND 99 % OCCUPIED BANDWIDTH

### LIMITS

| CFR 47 FCC Part15, Subpart E<br>ISED RSS-247 ISSUE 2 |   |   |
|--|---|---|
| Test Item  | Limit   | Frequency Range (MHz)   |
| 26 dB Emission Bandwidth                             | For reporting purposes only.                          | 5150 ~ 5250   |
| 26 dB Emission Bandwidth                             | For reporting purposes only.                          | 5250 ~ 5350   |
| 26 dB Emission Bandwidth                             | For reporting purposes only.                          | 5470 ~ 5725 (For FCC)<br>5470 ~ 5600 (For ISED)<br>5650 ~ 5725 (For ISED) |
| 6 dB Emission Bandwidth                              | The minimum 6 dB emission bandwidth shall be 500 kHz. | 5725 ~ 5850   |
| 99 % Occupied Bandwidth                              | For reporting purposes only.                          | 5150 ~ 5825 (For ISED)  |

### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.C1. for 26 dB Emission Bandwidth; section II.C2. for 6 dB Emission Bandwidth; section II.D. for 99 % Occupied Bandwidth.

Connect the EUT to the spectrum analyser and use the following settings:

|                  |   |
|------------------|---|
| Center Frequency | The center frequency of the channel under test  |
| Detector         | Peak  |
| RBW              | For 6 dB Emission Bandwidth: RBW=100 kHz<br>For 26 dB Emission bandwidth: approximately 1 % of the EBW.<br>For 99 % Occupied Bandwidth: approximately 1 % ~ 5 % of the OBW. |
| VBW              | For 6 dB Bandwidth: $\geq 3 \times \text{RBW}$<br>For 26 dB Bandwidth: $> 3 \times \text{RBW}$<br>For 99 % Bandwidth: $> 3 \times \text{RBW}$                               |
| Trace            | Max hold  |
| Sweep            | Auto couple   |

- Use the 99 % power bandwidth function of the instrument, allow the trace to stabilize and report the measured bandwidth.
- Allow the trace to stabilize and measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6/26 dB relative to the maximum level measured in the fundamental emission.



### Calculation for 6dB Bandwidth of UNII-3 Straddle Channel:

For Example: Fundamental frequency: 5720 MHz

6 dB BW: 15.36 MHz

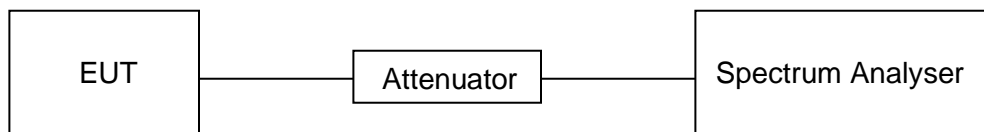
Mark 1: 5712.2 MHz

FL: 5725 MHz (Turning Frequency)

FH: Mark 1+6 dB BW = 5727.56 MHz

6 dB Bandwidth of UNII-3 band Portion = 5727.56 – 5725=2.56 MHz

### TEST SETUP



### TEST ENVIRONMENT

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 23.1 °C | Relative Humidity | 43.1 %    |
| Atmosphere Pressure | 101 kPa | Test Voltage      | DC 3.85 V |

### RESULTS

Please refer to Appendix A1&A2&A3.





### 7.3. CONDUCTED OUTPUT POWER

#### LIMITS

| CFR 47 FCC Part15, Subpart E |   |                            |
|------------------------------|---|----------------------------|
| Test Item                    | Limit   | Frequency Range (MHz)      |
| Conducted Output Power       | <input type="checkbox"/> Outdoor Access Point: 1 W (30 dBm)<br><input type="checkbox"/> Indoor Access Point: 1 W (30 dBm)<br><input type="checkbox"/> Fixed Point-To-Point Access Points: 1 W (30 dBm)<br><input checked="" type="checkbox"/> Client Devices: 250 mW (24 dBm) | 5150 ~ 5250                |
|                              | Shall not exceed the lesser of 250 mW (24dBm) or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz.   | 5250 ~ 5350<br>5470 ~ 5725 |
|                              | Shall not exceed 1 Watt (30 dBm).   | 5725 ~ 5850                |

| ISED RSS-247 ISSUE 2               |  |   |
|------------------------------------|--|---|
| Test Item                          | Limit  | Frequency Range (MHz)                     |
| Conducted Output Power or e.i.r.p. | The maximum e.i.r.p. shall not exceed 200 mW (23 dBm) or $10 + 10 \log_{10} B$ , dBm, whichever power is less. B is the 99 % emission bandwidth in megahertz.  | 5150 ~ 5250                               |
|                                    | a. The maximum conducted output power shall not exceed 250 mW (24 dBm) or $11 + 10 \log_{10} B$ dBm, whichever is less.<br>b. The maximum e.i.r.p. shall not exceed 1.0 W (30 dBm) or $17 + 10 \log_{10} B$ dBm, whichever is less. B is the 99 % emission bandwidth in megahertz. Note that devices with a maximum e.i.r.p. greater than 500 mW shall implement TPC in order to have the capability to operate at least 6 dB below the maximum permitted e.i.r.p. of 1 W. | 5250 ~ 5350<br>5470 ~ 5600<br>5650 ~ 5725 |
|                                    | Shall not exceed 1 Watt (30 dBm).<br>The e.i.r.p. shall not exceed 4 W   | 5725 ~ 5850                               |

**Note:**

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.  
If transmitting antennas of directional gain greater than 6 dBi are used, the maximum conducted output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

## **TEST PROCEDURE**

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.E.

### **Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep):**

- (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.
- (ii) Set RBW = 1 MHz.
- (iii) Set VBW  $\geq$  3 MHz.
- (iv) Number of points in sweep  $\geq 2 \times \text{span} / \text{RBW}$ . (This ensures that bin-to-bin spacing is  $\leq \text{RBW}/2$ , so that narrowband signals are not lost between frequency bins.)
- (v) Sweep time = auto.
- (vi) Detector = power averaging (rms), if available. Otherwise, use sample detector mode.
- (vii) If transmit duty cycle  $< 98\%$ , use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle  $\geq 98\%$ , and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run."
- (viii) Trace average at least 100 traces in power averaging (rms) mode.
- (ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at 1 MHz intervals extending across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the spectrum.

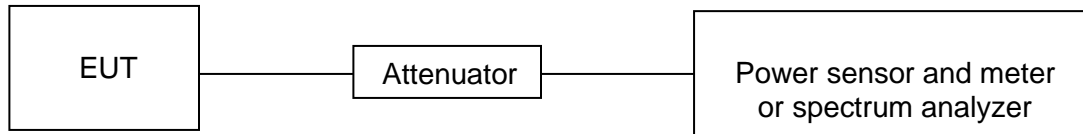
### **Method PM (Measurement using an RF average power meter):**

- (i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the following conditions are satisfied:
  - a. The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
  - b. At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
  - c. The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.
- (ii) If the transmitter does not transmit continuously, measure the duty cycle,  $x$ , of the transmitter output signal as described in II.B.
- (iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.
- (iv) Adjust the measurement in dBm by adding  $10 \log (1/x)$  where  $x$  is the duty cycle (e.g.,  $10 \log (1/0.25)$  if the duty cycle is 25 %).

### **Method PM-G (Measurement using a gated RF average power meter):**

Measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Since the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

Straddle channel power was measured using spectrum analyzer.

**TEST SETUP****TEST ENVIRONMENT**

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 23.1 °C | Relative Humidity | 43.1 %    |
| Atmosphere Pressure | 101 kPa | Test Voltage      | DC 3.85 V |

**RESULTS**

Please refer to Appendix B.



## 7.4. POWER SPECTRAL DENSITY

### LIMITS

| CFR 47 FCC Part15, Subpart E |  |                            |
|------------------------------|--|----------------------------|
| Test Item                    | Limit  | Frequency Range (MHz)      |
| Power Spectral Density       | <input type="checkbox"/> Outdoor Access Point: 17 dBm/MHz<br><input type="checkbox"/> Indoor Access Point: 17 dBm/MHz<br><input type="checkbox"/> Fixed Point-To-Point Access Points: 17 dBm/MHz<br><input checked="" type="checkbox"/> Client Devices: 11 dBm/MHz | 5150 ~ 5250                |
|                              | 11 dBm/MHz   | 5250 ~ 5350<br>5470 ~ 5725 |
|                              | 30 dBm/500kHz  | 5725 ~ 5850                |

| ISED RSS-247 ISSUE 2   |  |   |
|------------------------|--|---|
| Test Item              | Limit  | Frequency Range (MHz)                     |
| Power Spectral Density | The e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band. | 5150 ~ 5250                               |
|                        | The power spectral density shall not exceed 11 dBm in any 1.0 MHz band.    | 5250 ~ 5350<br>5470 ~ 5600<br>5650 ~ 5725 |
|                        | 30 dBm / 500 kHz   | 5725 ~ 5850                               |

#### Note:

The above limits are based upon the maximum antenna gain does not exceed 6 dBi.  
If transmitting antennas of directional gain greater than 6 dBi are used, maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### TEST PROCEDURE

Refer to KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.F.

Connect the EUT to the spectrum analyser and use the following settings:

For U-NII-1, U-NII-2A and U-NII-2C band:

|                  |  |
|------------------|--|
| Center Frequency | The center frequency of the channel under test               |
| Detector         | RMS  |
| RBW              | 1 MHz  |
| VBW              | $\geq 3 \times \text{RBW}$                                   |
| Span             | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace            | Max hold   |
| Sweep time       | Auto   |

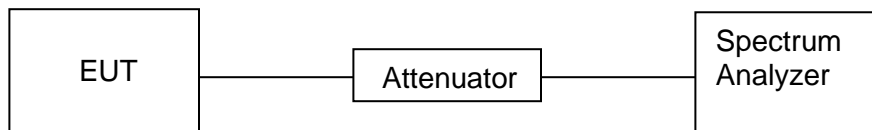
For U-NII-3:

|                  |  |
|------------------|--|
| Center Frequency | The center frequency of the channel under test               |
| Detector         | RMS  |
| RBW              | 500 kHz  |
| VBW              | $\geq 3 \times \text{RBW}$                                   |
| Span             | Encompass the entire emissions bandwidth (EBW) of the signal |
| Trace            | Max hold   |
| Sweep time       | Auto   |

Allow trace to fully stabilize and Use the peak search function on the instrument to find the peak of the spectrum and record its value.

Add  $10 \log(1/x)$ , where  $x$  is the duty cycle, to the peak of the spectrum, the result is the Maximum PSD over 1 MHz / 500 kHz reference bandwidth.

## **TEST SETUP**



## **TEST ENVIRONMENT**

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 23.1 °C | Relative Humidity | 43.1 %    |
| Atmosphere Pressure | 101 kPa | Test Voltage      | DC 3.85 V |

## **RESULTS**

Please refer to Appendix C.



## 8. RADIATED TEST RESULTS

### LIMITS

Refer to CFR 47 FCC §15.205, §15.209 and §15.407 (b).

Refer to ISED RSS-GEN Clause 8.9, Clause 8.10 and ISED RSS-247 6.2.

Radiation Disturbance Test Limit for FCC (Class B) (9 kHz ~ 1 GHz)

| Emissions radiated outside of the specified frequency bands above 30 MHz |                                       |   |         |
|--|---------------------------------------|---|---------|
| Frequency Range<br>(MHz)   | Field Strength Limit<br>(uV/m) at 3 m | Field Strength Limit<br>(dBuV/m) at 3 m |         |
|  |                                       | Quasi-Peak                              |         |
| 30 - 88  | 100                                   | 40                                      |         |
| 88 - 216   | 150                                   | 43.5                                    |         |
| 216 - 960  | 200                                   | 46                                      |         |
| Above 960  | 500                                   | 54                                      |         |
| Above 1000   | 500                                   | Peak                                    | Average |
|  |                                       | 74                                      | 54      |

| FCC Emissions radiated outside of the specified frequency bands below 30 MHz |                                   |                               |
|--|-----------------------------------|-------------------------------|
| 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                            |

ISED General field strength limits at frequencies below 30 MHz

| Table 6 – General field strength limits at frequencies below 30 MHz |  |                          |
|---|--|--------------------------|
| Frequency   | Magnetic field strength (H-Field) (μA/m) | Measurement distance (m) |
| 9 - 490 kHz <sup>Note 1</sup>                                       | 6.37/F (F in kHz)                        | 300                      |
| 490 - 1705 kHz  | 63.7/F (F in kHz)                        | 30                       |
| 1.705 - 30 MHz  | 0.08                                     | 30                       |

**Note 1:** The emission limits for the ranges 9-90 kHz and 110-490 kHz are based on measurements employing a linear average detector.



ISED Restricted bands refer to ISED RSS-GEN Clause 8.10

| Table 7 – Restricted frequency bands <sup>Note 1</sup> |                       |               |
|--|-----------------------|---------------|
| MHz  | MHz                   | GHz           |
| 0.090 - 0.110  | 149.9 - 150.05        | 9.0 - 9.2     |
| 0.495 - 0.505  | 156.52475 - 156.52525 | 9.3 - 9.5     |
| 2.1735 - 2.1905  | 156.7 - 156.9         | 10.6 - 12.7   |
| 3.020 - 3.026  | 162.0125 - 167.17     | 13.25 - 13.4  |
| 4.125 - 4.128  | 167.72 - 173.2        | 14.47 - 14.5  |
| 4.17725 - 4.17775                                      | 240 - 285             | 15.35 - 16.2  |
| 4.20725 - 4.20775                                      | 322 - 335.4           | 17.7 - 21.4   |
| 5.677 - 5.683  | 399.9 - 410           | 22.01 - 23.12 |
| 6.215 - 6.218  | 608 - 614             | 23.6 - 24.0   |
| 6.26775 - 6.26825                                      | 960 - 1427            | 31.2 - 31.8   |
| 6.31175 - 6.31225                                      | 1435 - 1626.5         | 36.43 - 36.5  |
| 8.291 - 8.294  | 1645.5 - 1646.5       | Above 38.6    |
| 8.362 - 8.366  | 1660 - 1710           |               |
| 8.37625 - 8.38675                                      | 1718.8 - 1722.2       |               |
| 8.41425 - 8.41475                                      | 2200 - 2300           |               |
| 12.29 - 12.293   | 2310 - 2390           |               |
| 12.51975 - 12.52025                                    | 2483.5 - 2500         |               |
| 12.57675 - 12.57725                                    | 2655 - 2900           |               |
| 13.36 - 13.41  | 3260 - 3267           |               |
| 16.42 - 16.423   | 3332 - 3339           |               |
| 16.69475 - 16.69525                                    | 3345.8 - 3358         |               |
| 16.80425 - 16.80475                                    | 3500 - 4400           |               |
| 25.5 - 25.67   | 4500 - 5150           |               |
| 37.5 - 38.25   | 5350 - 5460           |               |
| 73 - 74.6  | 7250 - 7750           |               |
| 74.8 - 75.2  | 8025 - 8500           |               |
| 108 - 138  |                       |               |

**Note 1:** Certain frequency bands listed in table 7 and in bands above 38.6 GHz are designated for licence-exempt applications. These frequency bands and the requirements that apply to related devices are set out in the 200 and 300 series of RSSs.

FCC Restricted bands of operation refer to FCC §15.205 (a):

| MHz                      | MHz                 | MHz           | GHz              |
|--------------------------|---------------------|---------------|------------------|
| 0.090-0.110              | 16.42-16.423        | 399.9-410     | 4.5-5.15         |
| <sup>1</sup> 0.495-0.505 | 16.69475-16.69525   | 608-614       | 5.35-5.46        |
| 2.1735-2.1905            | 16.80425-16.80475   | 960-1240      | 7.25-7.75        |
| 4.125-4.128              | 25.5-25.67          | 1300-1427     | 8.025-8.5        |
| 4.17725-4.17775          | 37.5-38.25          | 1435-1626.5   | 9.0-9.2          |
| 4.20725-4.20775          | 73-74.6             | 1645.5-1646.5 | 9.3-9.5          |
| 6.215-6.218              | 74.8-75.2           | 1660-1710     | 10.6-12.7        |
| 6.26775-6.26825          | 108-121.94          | 1718.8-1722.2 | 13.25-13.4       |
| 6.31175-6.31225          | 123-138             | 2200-2300     | 14.47-14.5       |
| 8.291-8.294              | 149.9-150.05        | 2310-2390     | 15.35-16.2       |
| 8.362-8.366              | 156.52475-156.52525 | 2483.5-2500   | 17.7-21.4        |
| 8.37625-8.38675          | 156.7-156.9         | 2690-2900     | 22.01-23.12      |
| 8.41425-8.41475          | 162.0125-167.17     | 3260-3267     | 23.6-24.0        |
| 12.29-12.293             | 167.72-173.2        | 3332-3339     | 31.2-31.8        |
| 12.51975-12.52025        | 240-285             | 3345.8-3358   | 36.43-36.5       |
| 12.57675-12.57725        | 322-335.4           | 3600-4400     | ( <sup>2</sup> ) |
| 13.36-13.41              |                     |               |                  |

Note: <sup>1</sup>Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.

<sup>2</sup>Above 38.6c



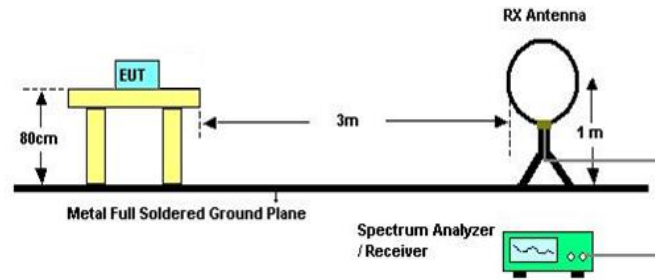
Limits of unwanted/undesirable emission out of the restricted bands refer to CFR 47 FCC §15.407 (b) and ISSED RSS-247 6.2.

| LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1GHz)  |   |   |
|---|---|---|
| Frequency Range (MHz)   | EIRP Limit  | Field Strength Limit (dBuV/m) at 3 m  |
| 5150~5250 MHz   | PK: -27 (dBm/MHz)   | PK:68.2(dBμV/m)   |
| 5250~5350 MHz   |   |   |
| 5470~5725 MHz   |   |   |
| 5725~5850 MHz   | PK: -27 (dBm/MHz) *1<br>PK: 10 (dBm/MHz) *2<br>PK: 15.6 (dBm/MHz) *3<br>PK: 27 (dBm/MHz) *4 | PK: 68.2(dBμV/m) *1<br>PK: 105.2 (dBμV/m) *2<br>PK: 110.8(dBμV/m) *3<br>PK: 122.2 (dBμV/m) *4 |
| <p>Note:</p> <p>*1 beyond 75 MHz or more above of the band edge.</p> <p>*2 below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.</p> <p>*3 below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.</p> <p>*4 from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.</p> |   |   |



## TEST SETUP AND PROCEDURE

Below 30 MHz

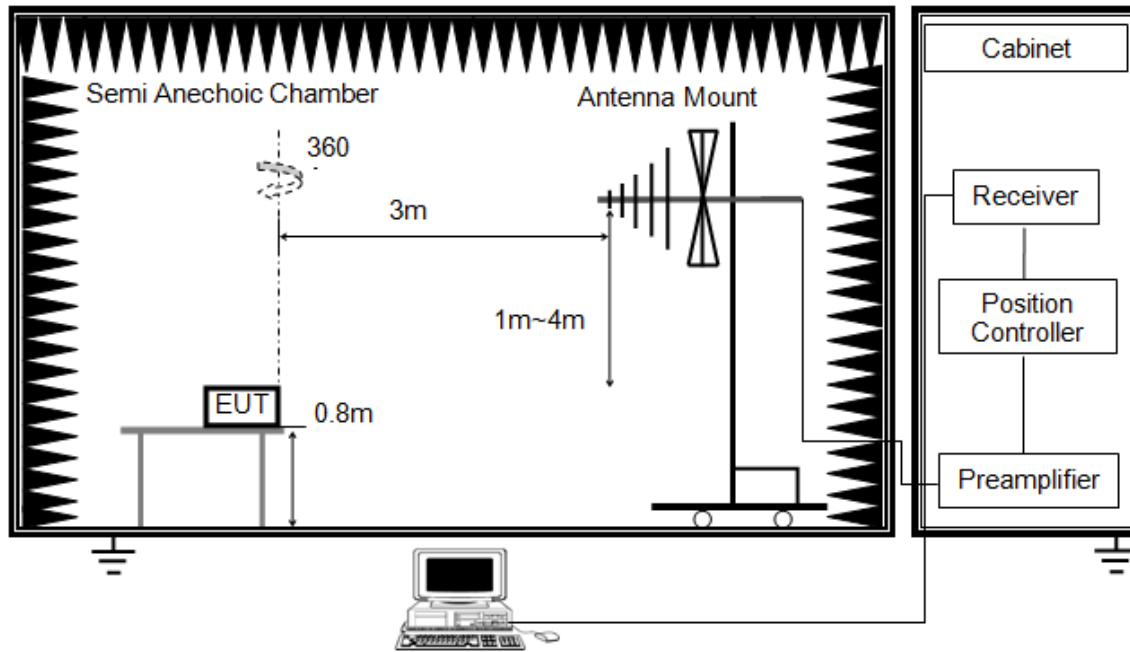


The setting of the spectrum analyser

|       |  |
|-------|--|
| RBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| VBW   | 200 Hz (From 9 kHz to 0.15 MHz)/ 9 kHz (From 0.15 MHz to 30 MHz) |
| Sweep | Auto   |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.4.
2. The EUT was arranged to its worst case and then turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both Horizontal, Face-on and Face-off polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a 1 m height antenna tower.
5. The radiated emission limits are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission limits in these three bands are based on measurements employing an average detector.
6. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak and average detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak and average detector and reported.
7. Although these tests were performed other than open field site, adequate comparison measurements were confirmed against 30m open field site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the ones of tests made in an open field site based on KDB 414788.
8. The limits in CFR 47, Part 15, Subpart C, paragraph 15.209 (a), are identical to those in RSS-GEN Section 8.9, Table 6, since the measurements are performed in terms of magnetic field strength and converted to electric field strength levels (as reported in the table) using the free space impedance of 377Ω. For example, the measurement frequency X KHz resulted in a level of Y dBuV/m, which is equivalent to  $Y - 51.5 = Z$  dBuA/m, which has the same margin, W dB, to the corresponding RSS-GEN Table 6 limit as it has to be 15.209(a) limit.

Below 1 GHz and above 30 MHz

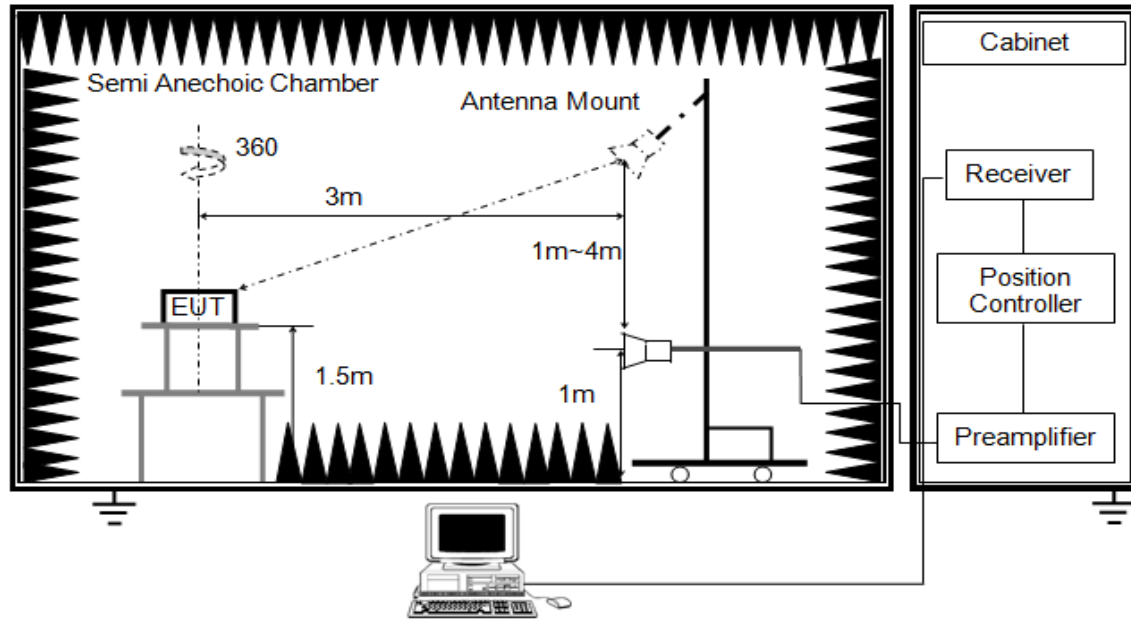


The setting of the spectrum analyser

|          |          |
|----------|----------|
| RBW      | 120 kHz  |
| VBW      | 300 kHz  |
| Sweep    | Auto     |
| Detector | Peak/QP  |
| Trace    | Max hold |

1. The testing follows the guidelines in ANSI C63.10-2013 clause 6.5.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 80 cm above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement below 1 GHz, the initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured. If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

Above 1 GHz

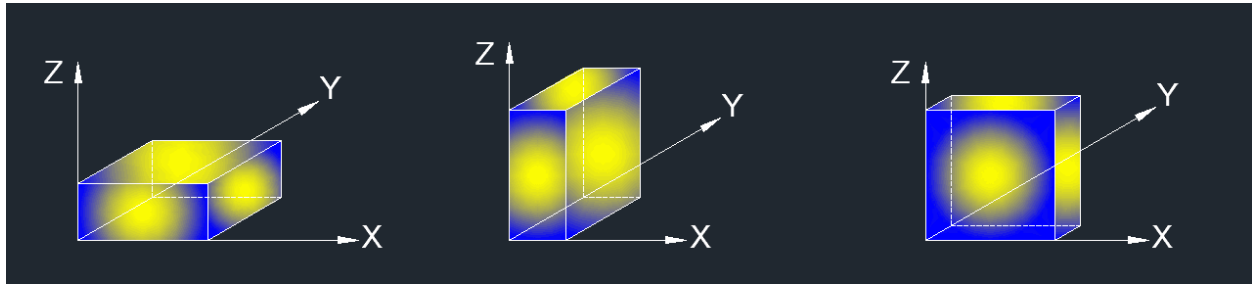


The setting of the spectrum analyser

|          |                                |
|----------|--------------------------------|
| RBW      | 1 MHz                          |
| VBW      | PEAK: 3 MHz<br>AVG: see note 6 |
| Sweep    | Auto                           |
| Detector | Peak                           |
| Trace    | Max hold                       |

1. The testing follows the guidelines in KDB 789033 D02 General U-NII Test Procedures New Rules v02r01 section II.G.3 ~ II.G.6.
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 1.5 m above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. For measurement above 1 GHz, the emission measurement will be measured by the peak detector. This peak level, once corrected, must comply with the limit specified in Section 15.209.
6. For measurements above 1 GHz the resolution bandwidth is set to 1 MHz, then the video bandwidth is set to 3 MHz for peak measurements and 1 MHz resolution bandwidth with 1/T video bandwidth with peak detector for average measurements. For the Duty Cycle please refer to clause 7.1.ON TIME AND DUTY CYCLE.

X axis, Y axis, Z axis positions:



Note 1: For all radiated test, EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data recorded in the report.

### TEST ENVIRONMENT

|                     |         |                   |           |
|---------------------|---------|-------------------|-----------|
| Temperature         | 22.9 °C | Relative Humidity | 45 %      |
| Atmosphere Pressure | 101 kPa | Test Voltage      | DC 3.85 V |

### RESULTS

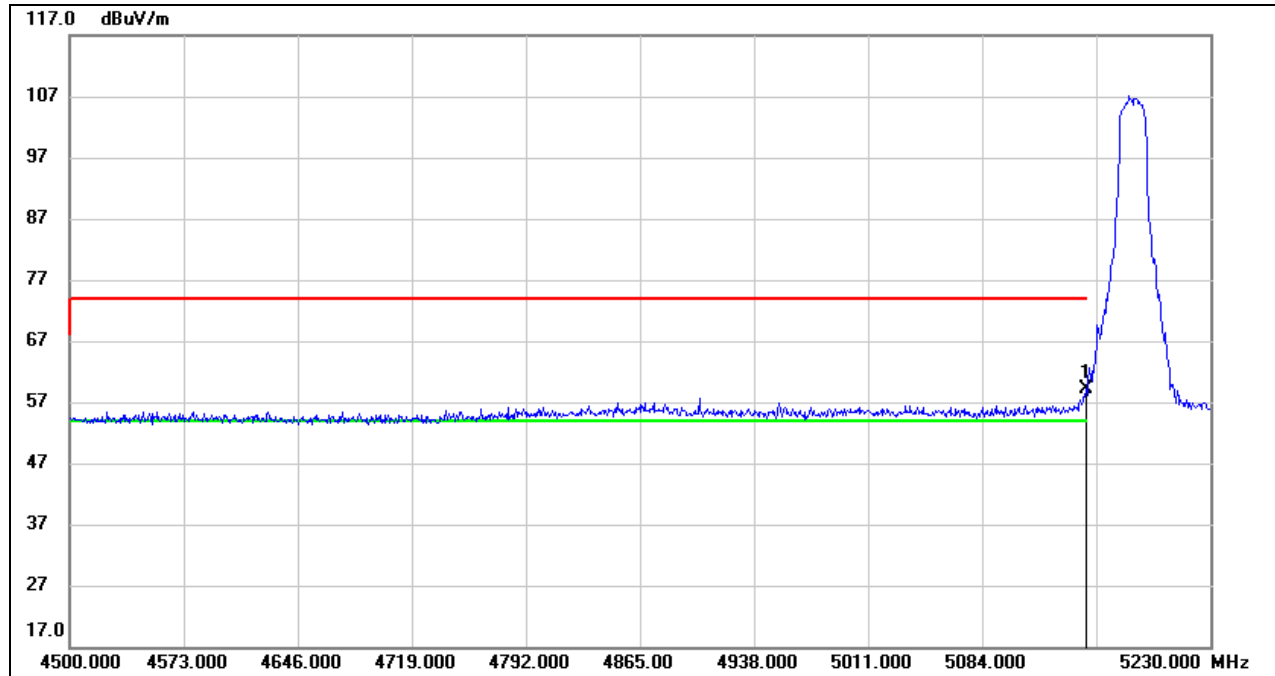
## 8.1. RESTRICTED BANDEDGE

### 8.1.1. 802.11a20 SISO MODE

#### UNII-1 BAND

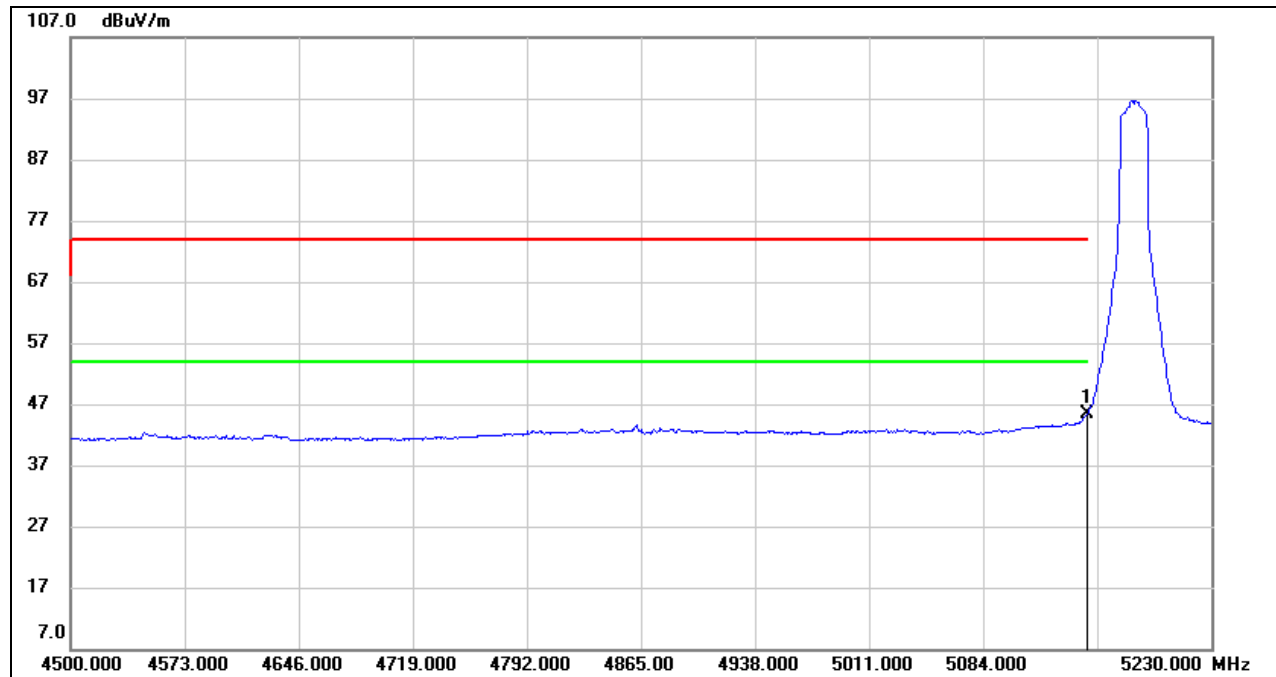
#### RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

#### PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 19.16             | 39.91             | 59.07              | 74.00             | -14.93         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

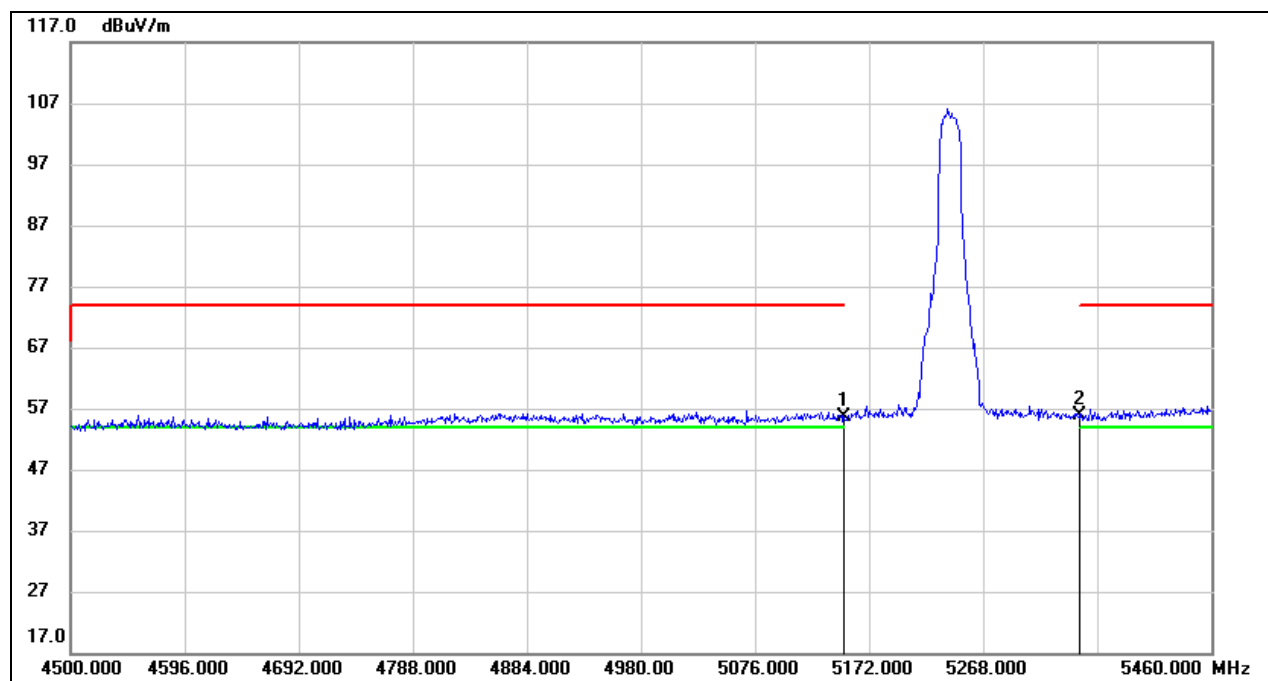
**AVG**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 5.58              | 39.91             | 45.49              | 54.00             | -8.51          | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

# RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

## PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 15.60             | 39.91             | 55.51              | 74.00             | -18.49         | peak   |
| 2   | 5350.000           | 15.92             | 40.08             | 56.00              | 74.00             | -18.00         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

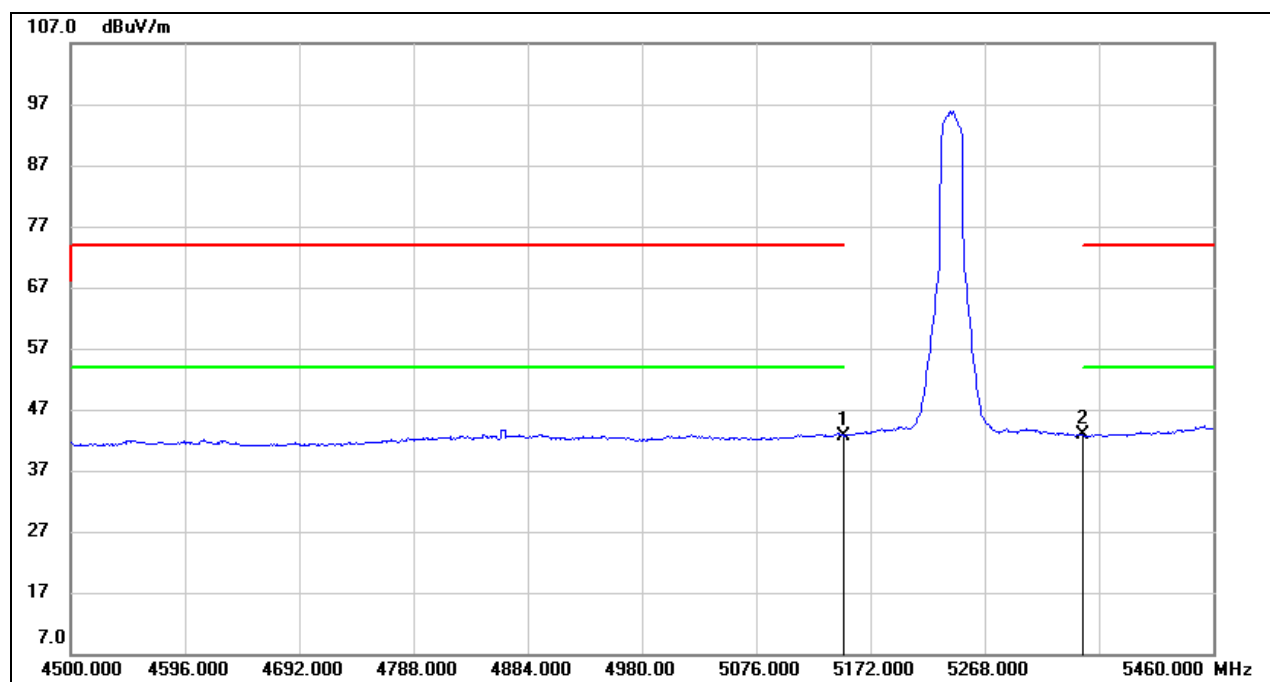
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

5. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

### AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5150.000        | 2.83           | 39.91          | 42.74           | 54.00          | -11.26      | AVG    |
| 2   | 5350.000        | 2.70           | 40.08          | 42.78           | 54.00          | -11.22      | AVG    |

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
  6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

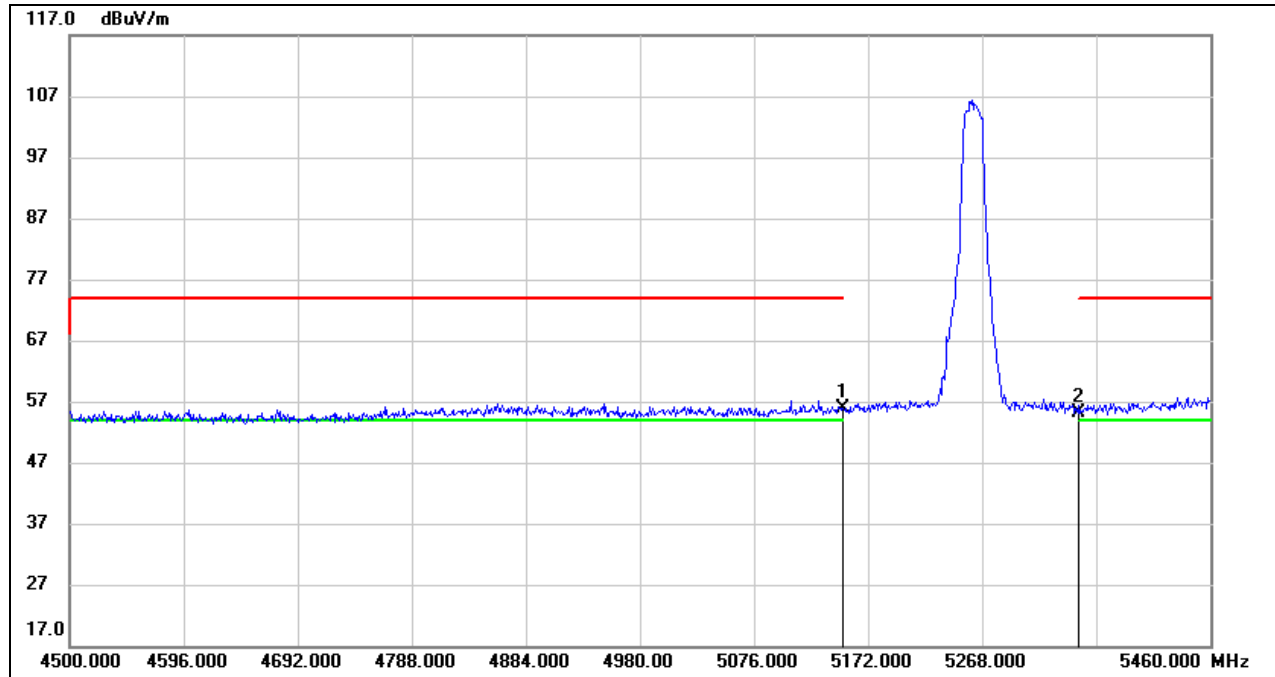
Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.



**UNII-2A BAND**

**RESTRICTED BANDEGE (LOW CHANNEL, VERTICAL)**

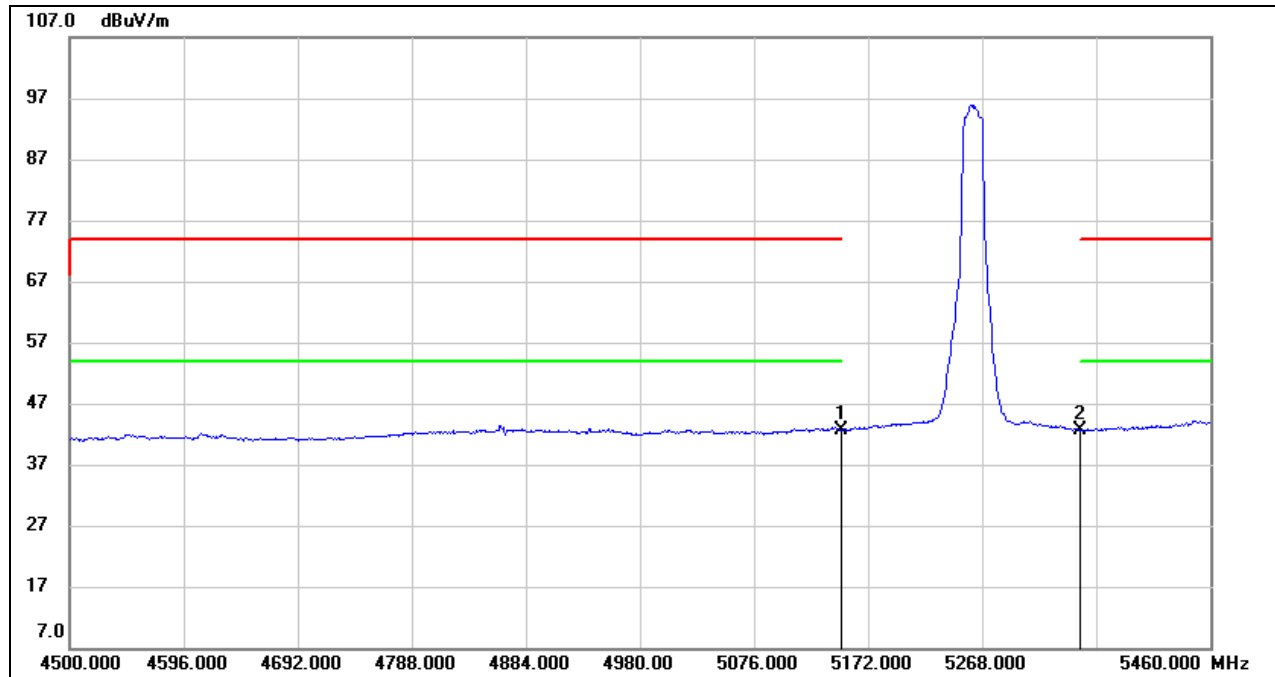
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 15.97             | 39.91             | 55.88              | 74.00             | -18.12         | peak   |
| 2   | 5350.000           | 15.17             | 40.08             | 55.25              | 74.00             | -18.75         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.  
 5. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

### AVG

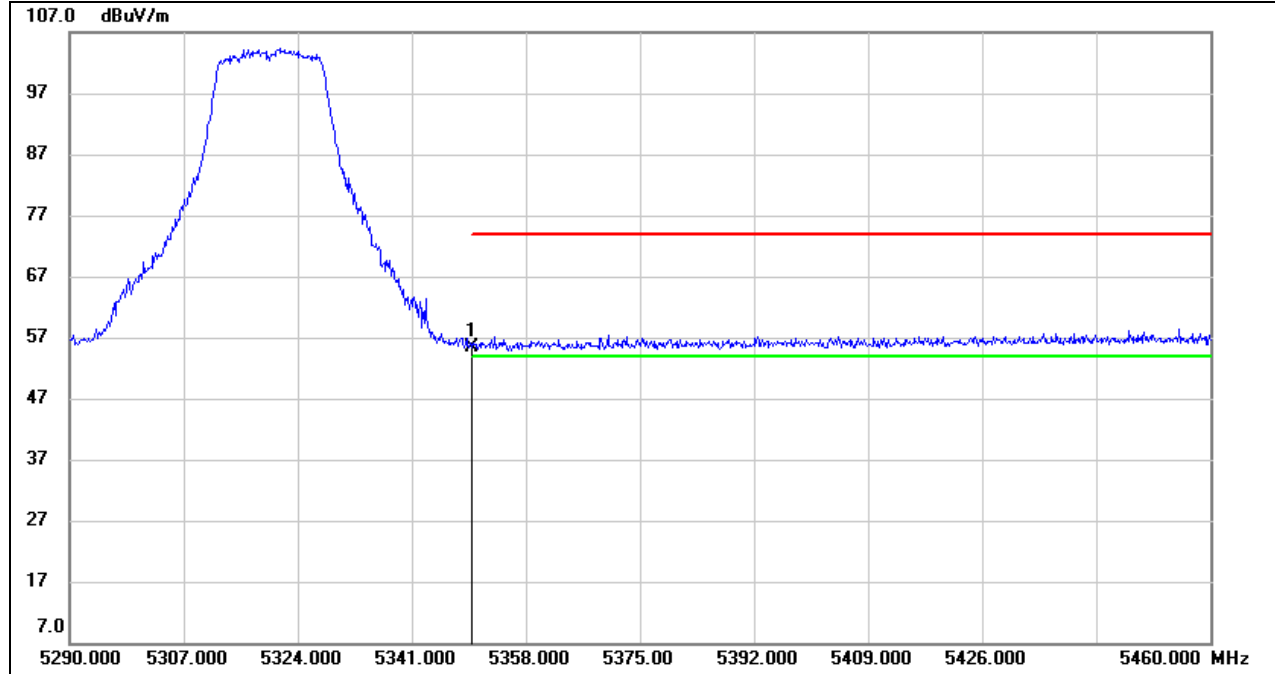


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 2.71              | 39.91             | 42.62              | 54.00             | -11.38         | avg    |
| 2   | 5350.000           | 2.67              | 40.08             | 42.75              | 54.00             | -11.25         | avg    |

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.  
6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

# RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

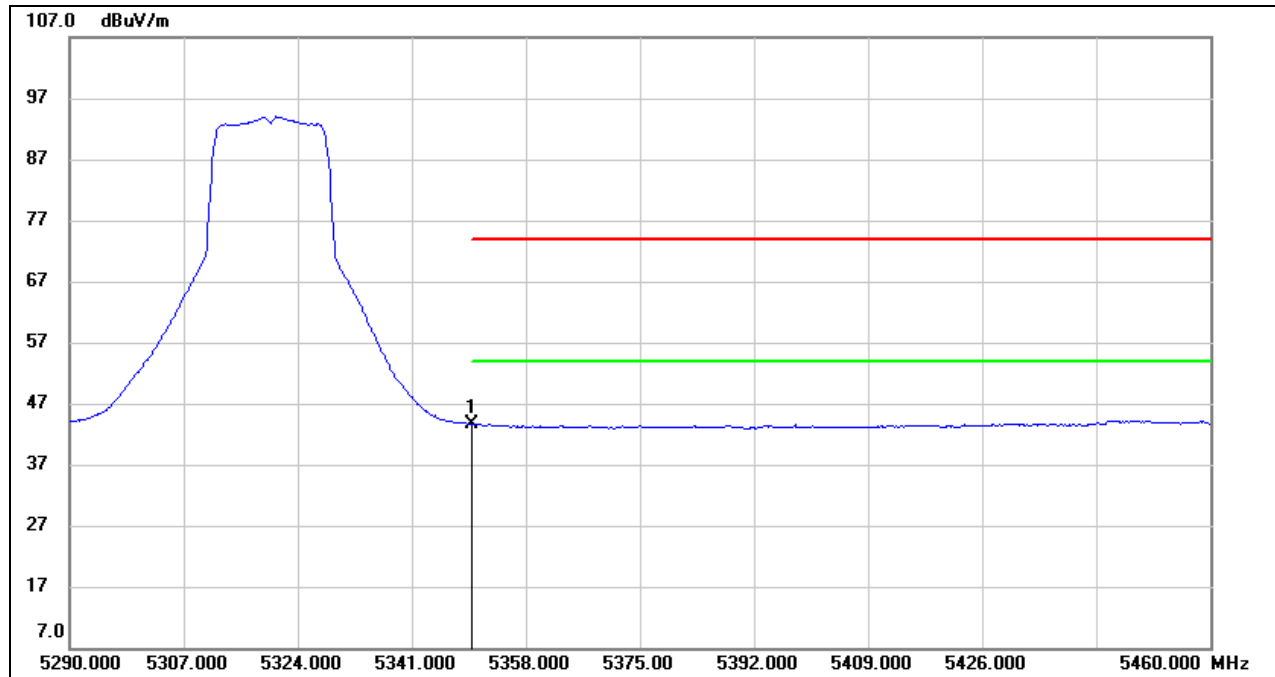
## PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 15.27             | 40.08             | 55.35              | 74.00             | -18.65         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

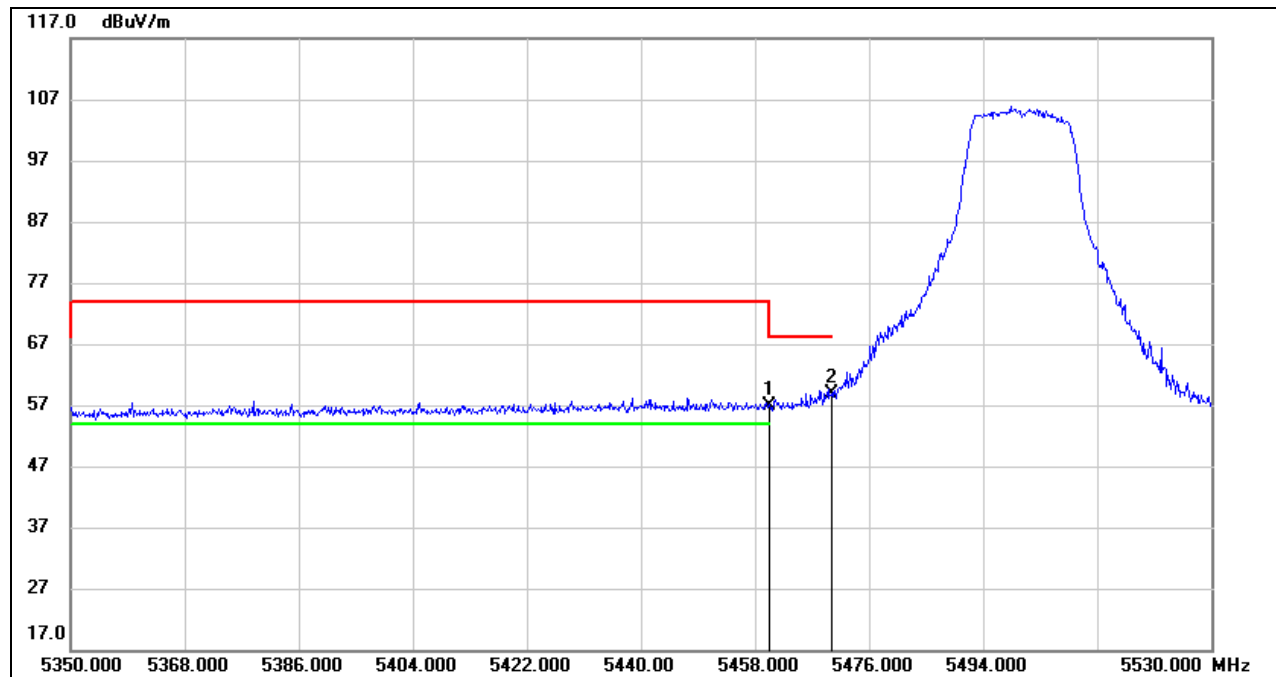
### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 3.64              | 40.08             | 43.72              | 54.00             | -10.28         | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2C BAND****RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)****PEAK**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 16.04             | 40.79             | 56.83              | 68.20             | -11.37         | peak   |
| 2   | 5470.000           | 18.02             | 40.85             | 58.87              | 68.20             | -9.33          | peak   |

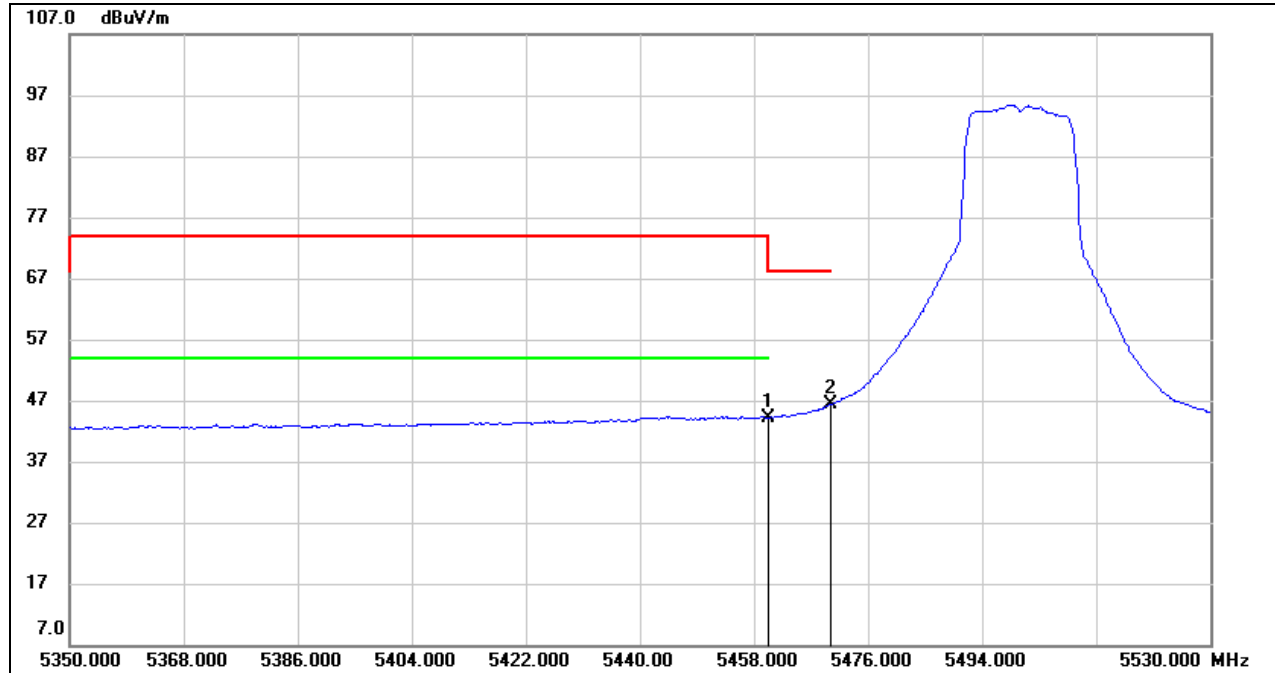
Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

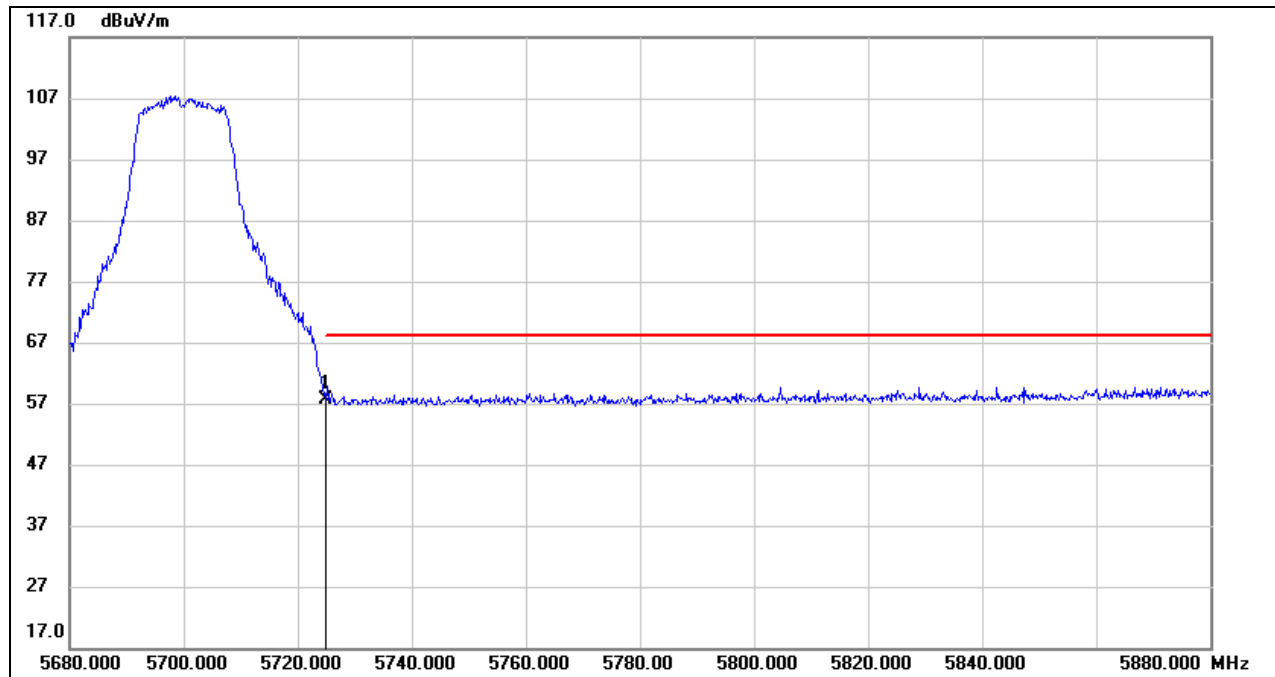
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 3.43              | 40.79             | 44.22              | 54.00             | -9.78          | AVG    |
| 2   | 5470.000           | 5.49              | 40.85             | 46.34              | /                 | /              | AVG    |

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)****PEAK**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5725.000           | 17.06             | 40.63             | 57.69              | 68.20             | -10.51         | peak   |

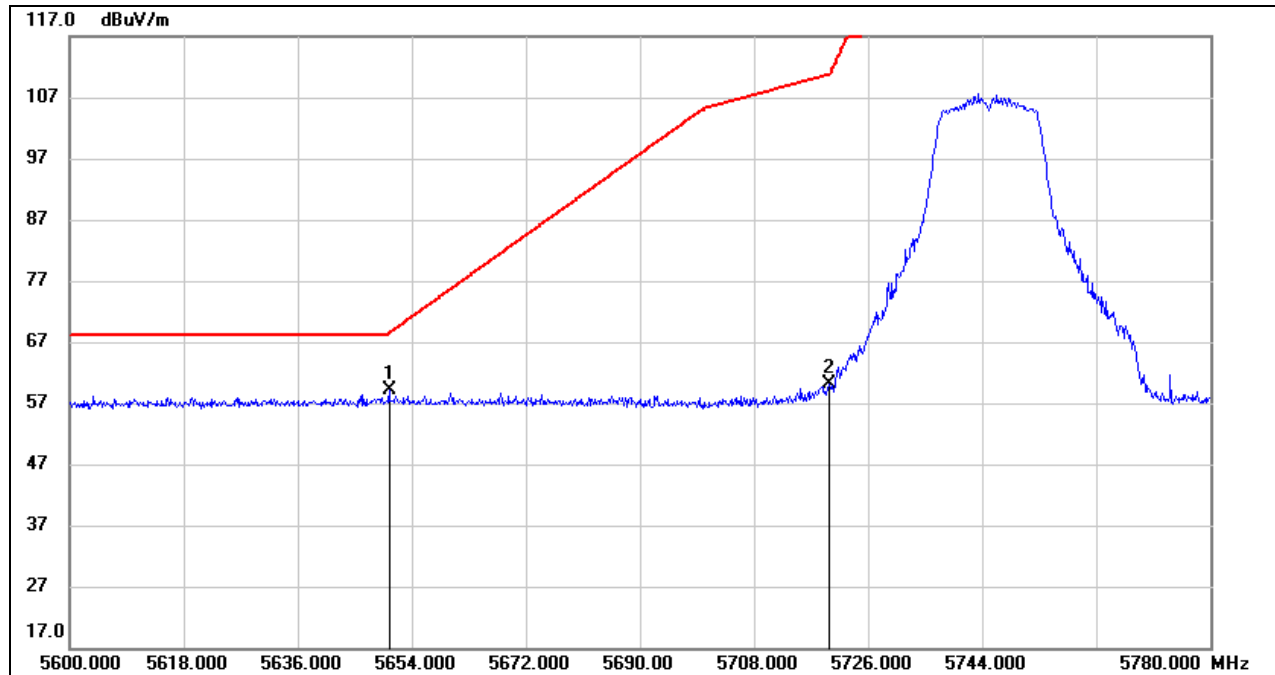
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-3 BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

**PEAK**



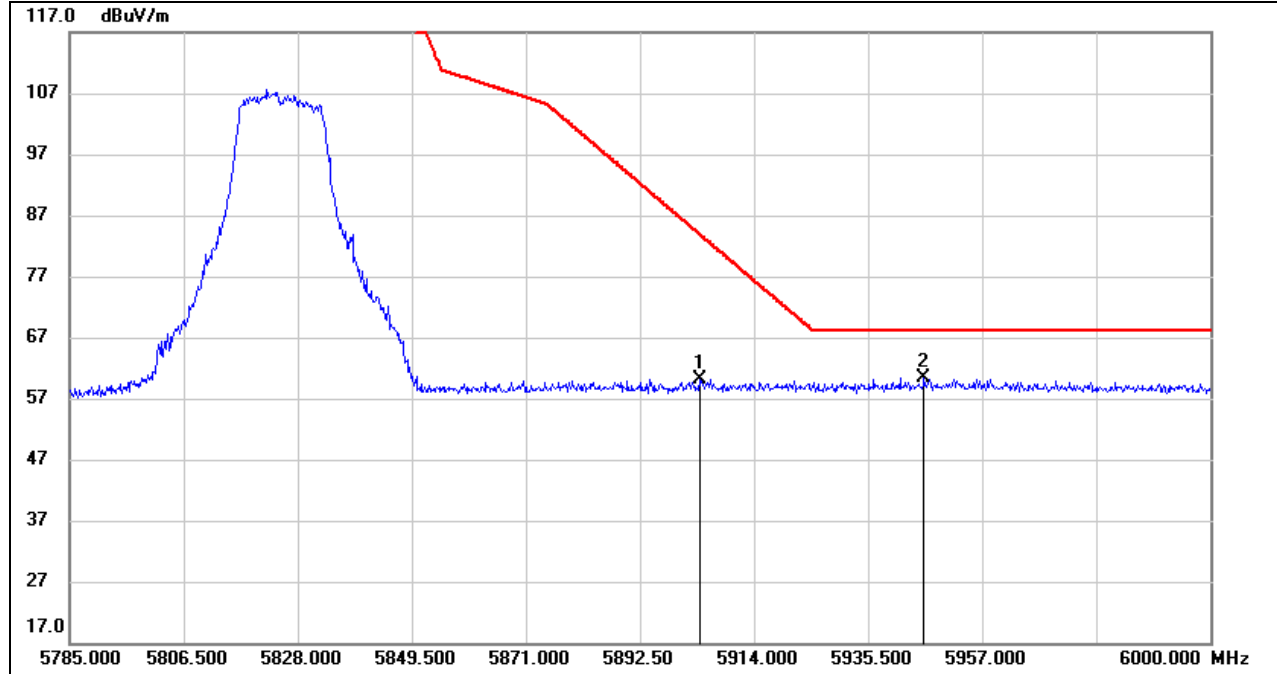
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5650.400           | 18.48             | 40.61             | 59.09              | 68.50             | -9.41          | peak   |
| 2   | 5719.880           | 19.44             | 40.60             | 60.04              | 110.77            | -50.73         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5903.680           | 18.16             | 41.93             | 60.09              | 83.94             | -23.85         | peak   |
| 2   | 5946.035           | 18.58             | 41.73             | 60.31              | 68.20             | -7.89          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

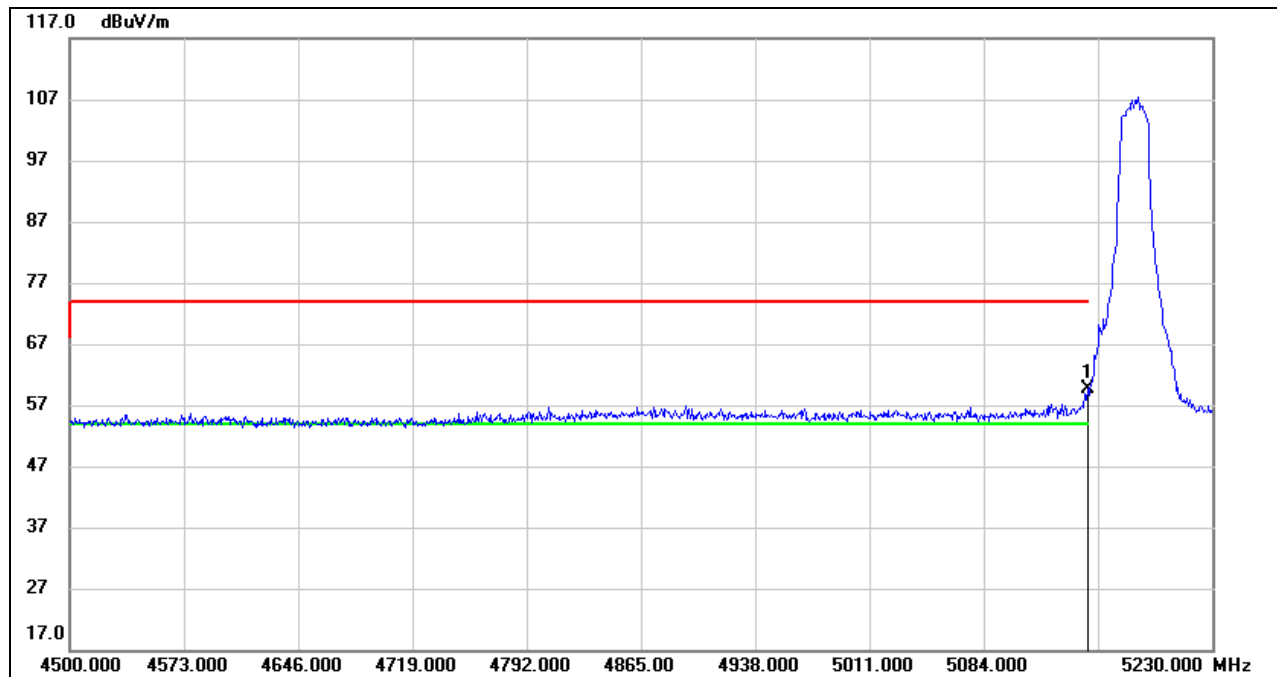


8.1.2. 802.11n HT20 MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

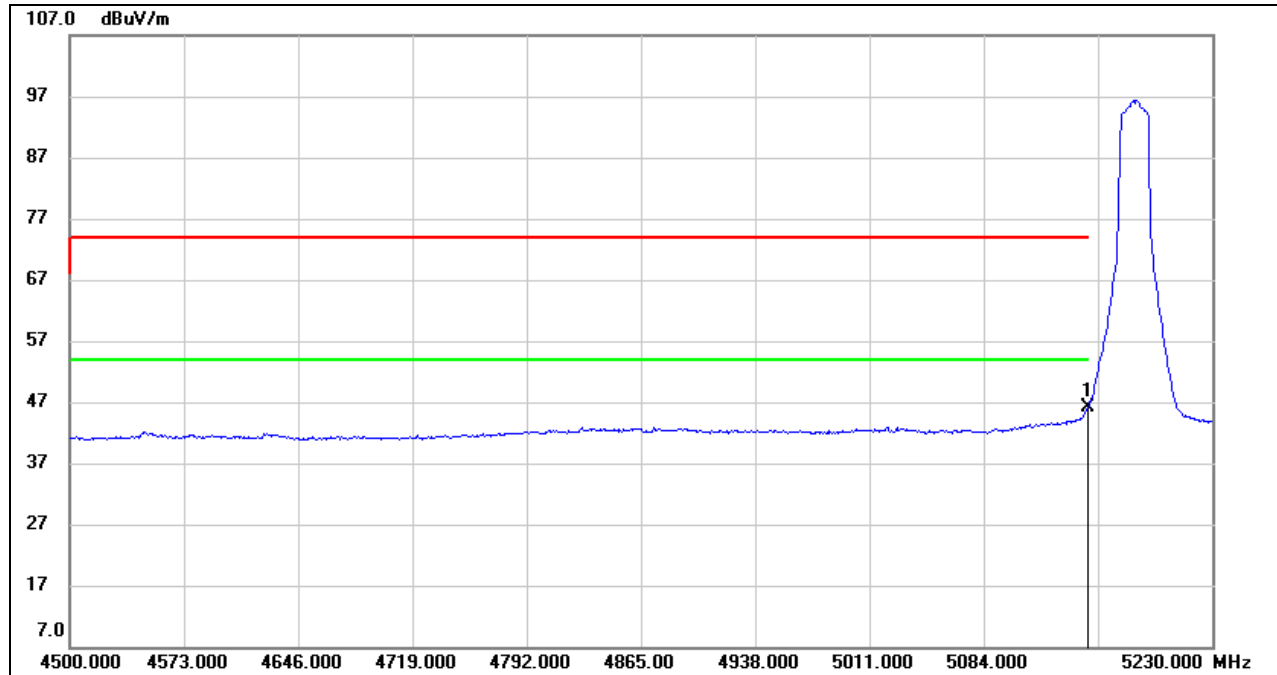
PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 19.61             | 39.91             | 59.52              | 74.00             | -14.48         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG

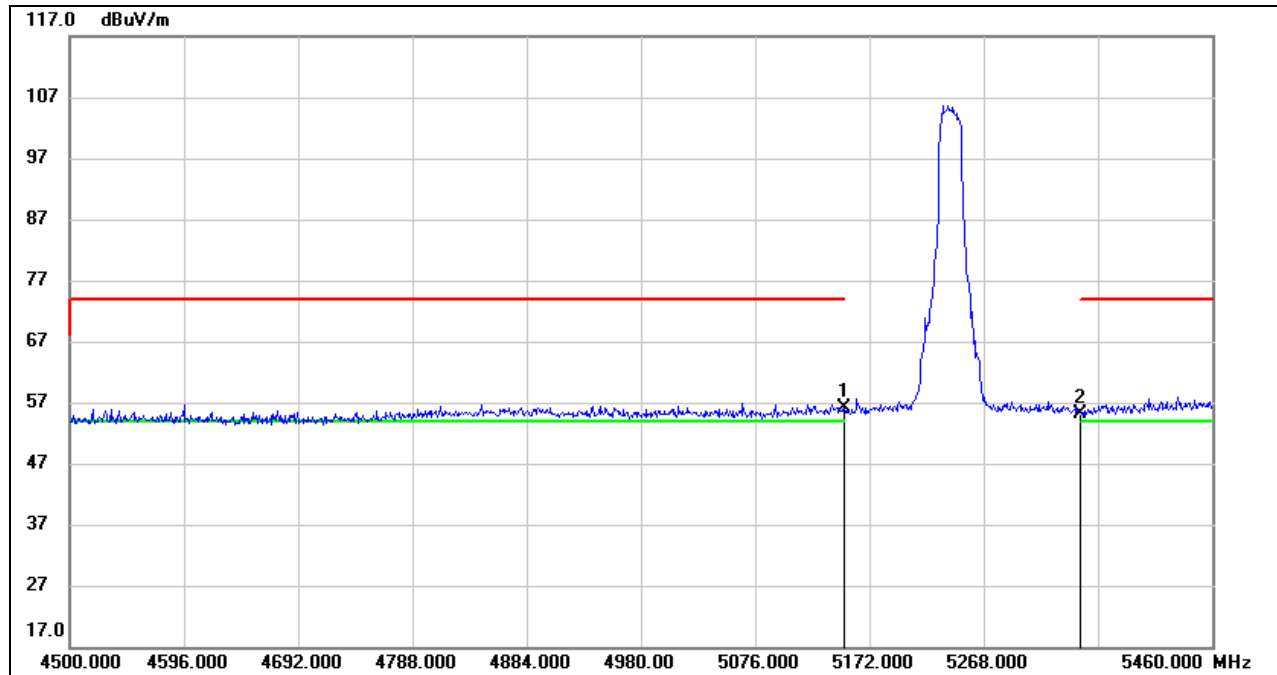


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 6.28              | 39.91             | 46.19              | 54.00             | -7.81          | AVG    |

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

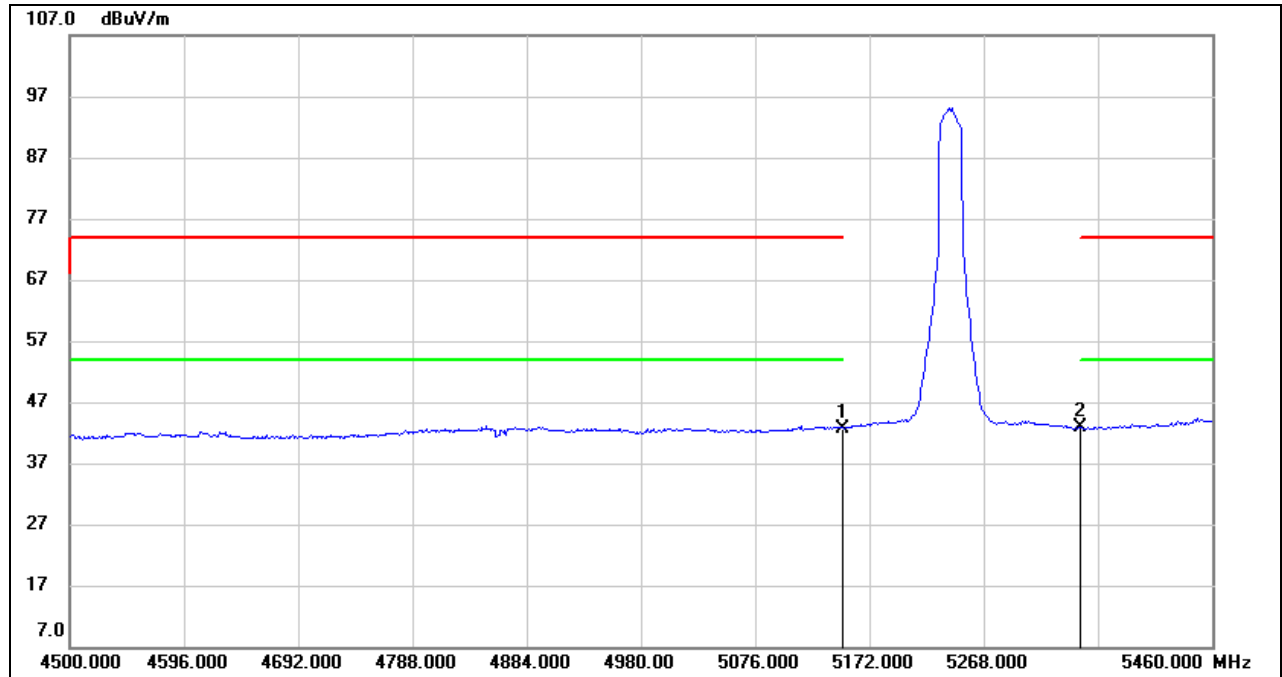
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 16.22             | 39.91             | 56.13              | 74.00             | -17.87         | peak   |
| 2   | 5350.000           | 14.96             | 40.08             | 55.04              | 74.00             | -18.96         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5150.000        | 2.83           | 39.91          | 42.74           | 54.00          | -11.26      | AVG    |
| 2   | 5350.000        | 2.81           | 40.08          | 42.89           | 54.00          | -11.11      | AVG    |

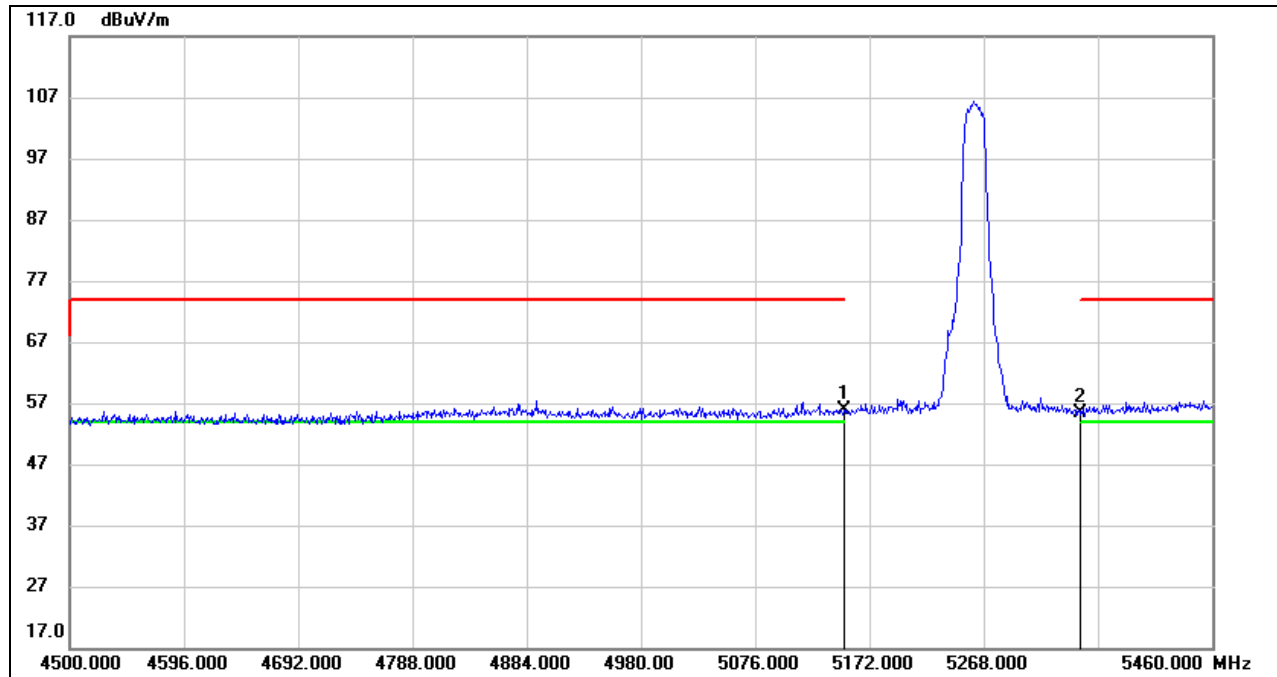
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
  6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2A BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

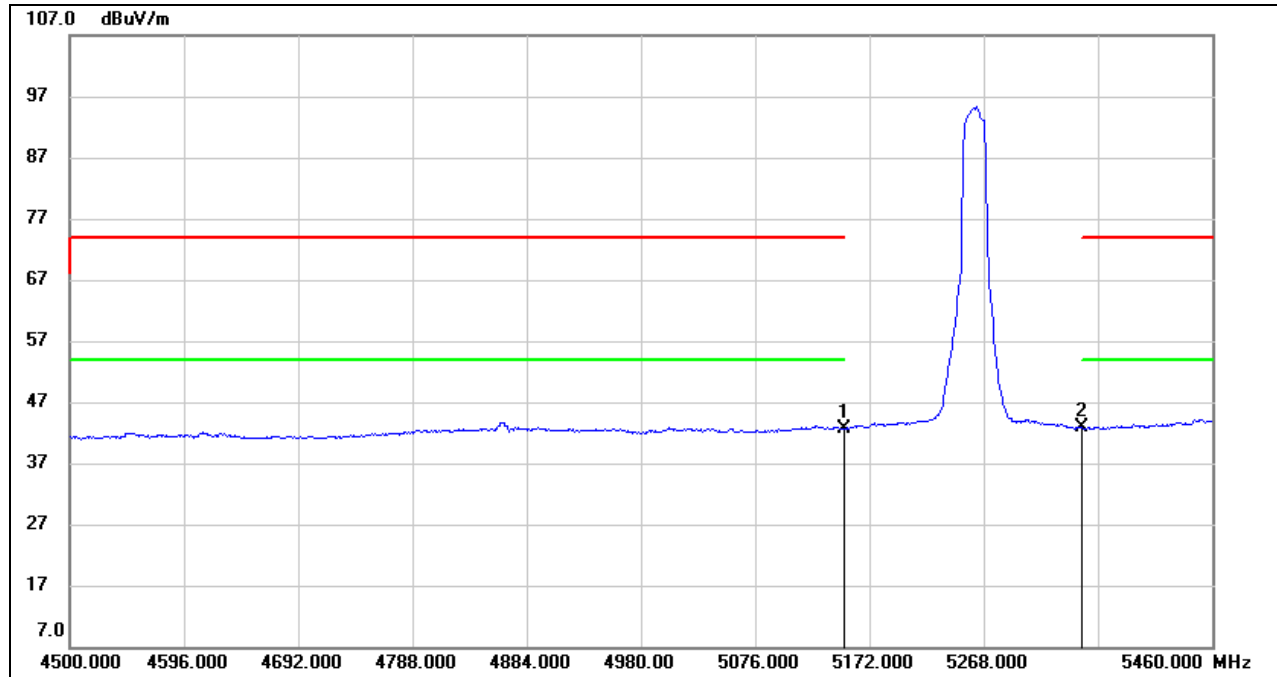
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 15.86             | 39.91             | 55.77              | 74.00             | -18.23         | peak   |
| 2   | 5350.000           | 15.39             | 40.08             | 55.47              | 74.00             | -18.53         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.  
 5. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

### AVG

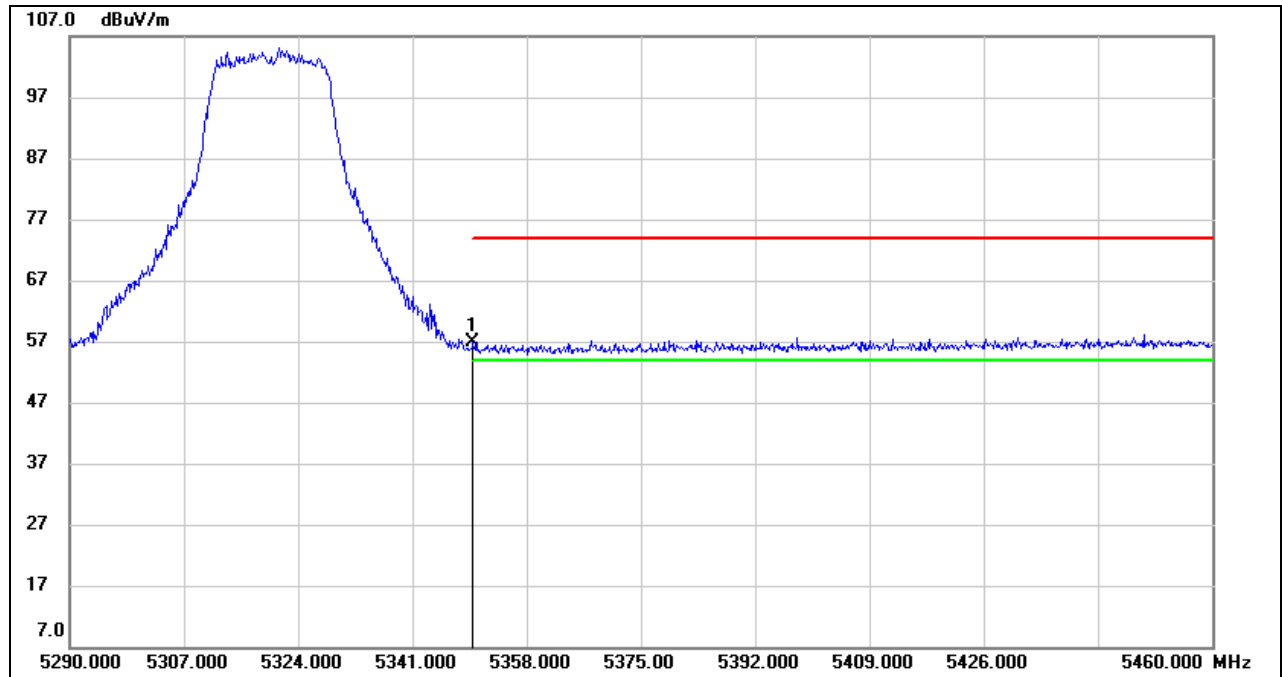


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5150.000        | 2.77           | 39.91          | 42.68           | 54.00          | -11.32      | AVG    |
| 2   | 5350.000        | 2.75           | 40.08          | 42.83           | 54.00          | -11.17      | AVG    |

- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.
  6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**

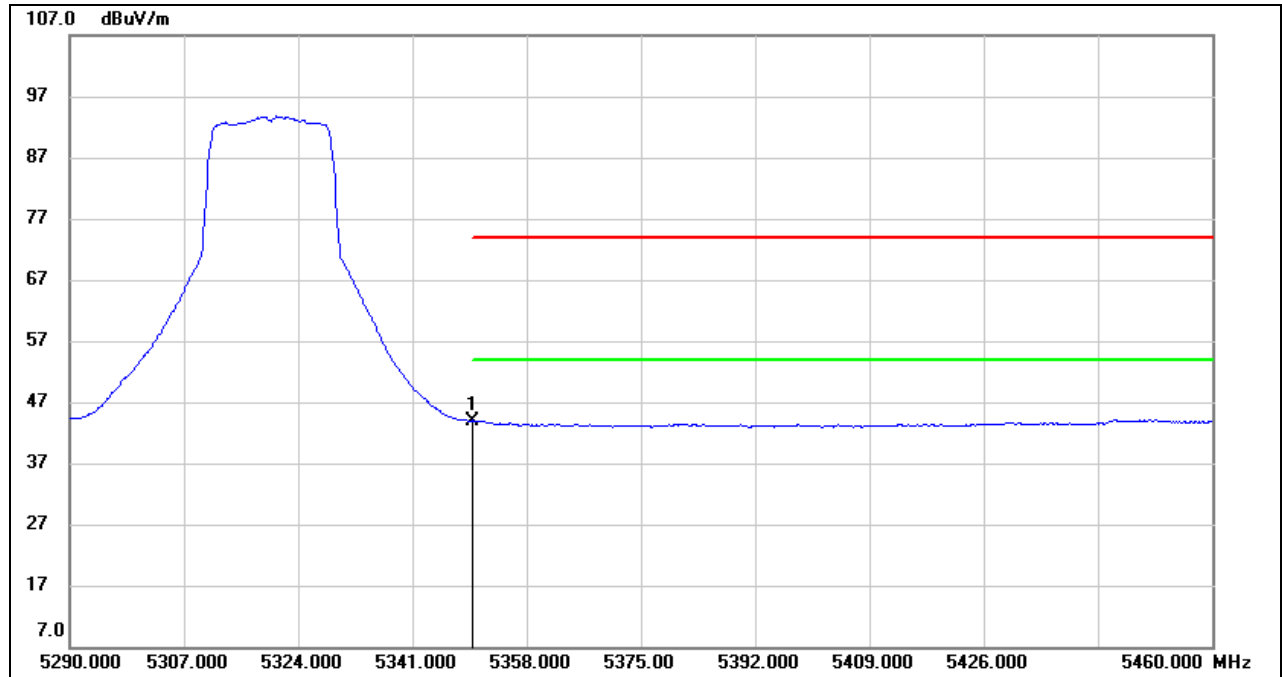


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 16.92             | 40.08             | 57.00              | 74.00             | -17.00         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 3.87              | 40.08             | 43.95              | 54.00             | -10.05         | AVG    |

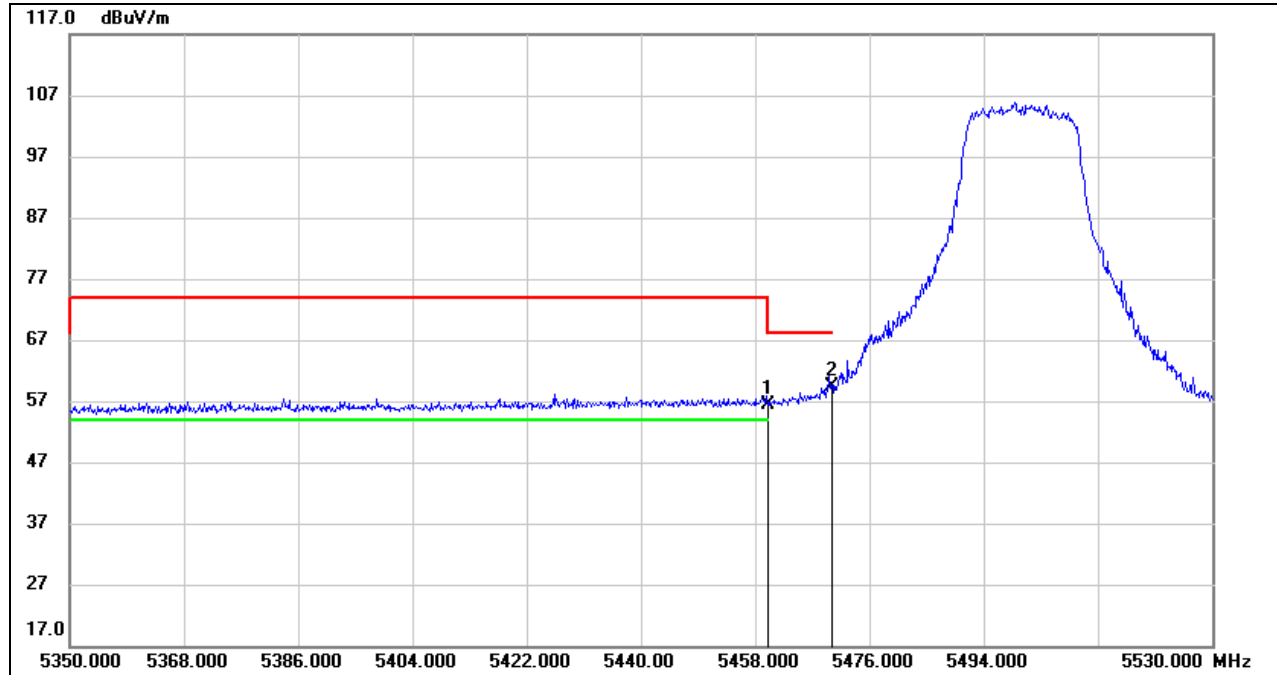
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

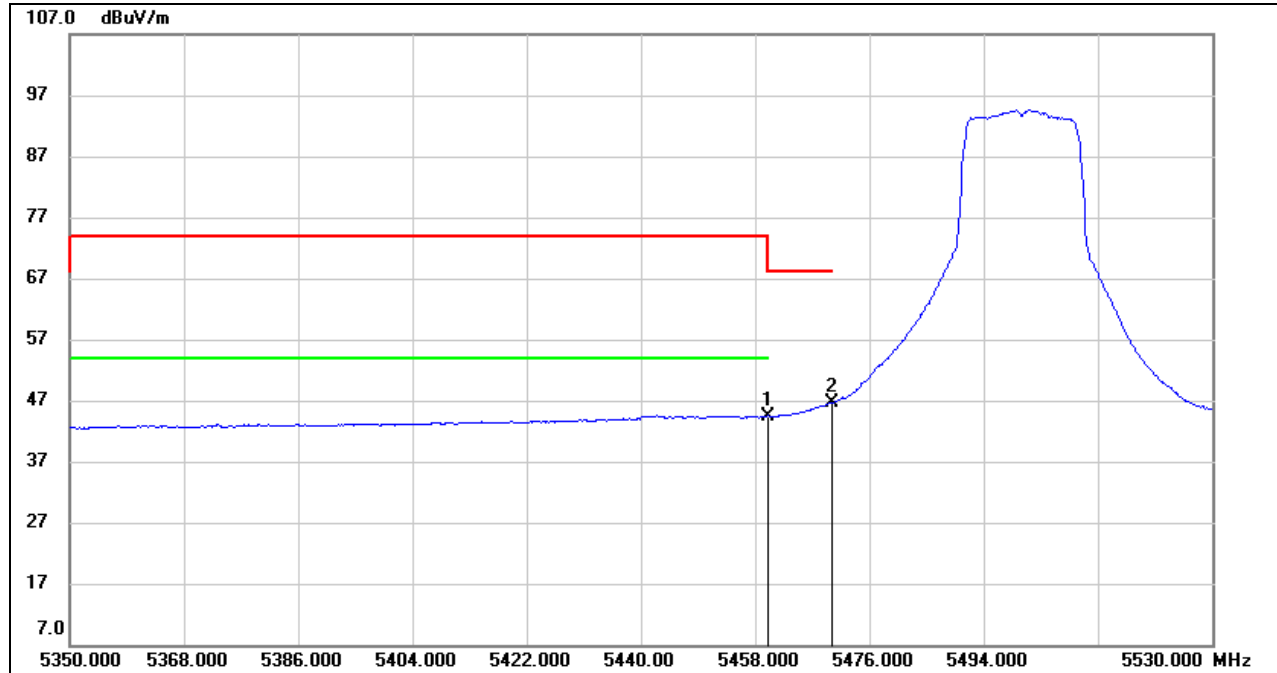
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 15.63             | 40.79             | 56.42              | 68.20             | -11.78         | peak   |
| 2   | 5470.000           | 18.59             | 40.85             | 59.44              | 68.20             | -8.76          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG

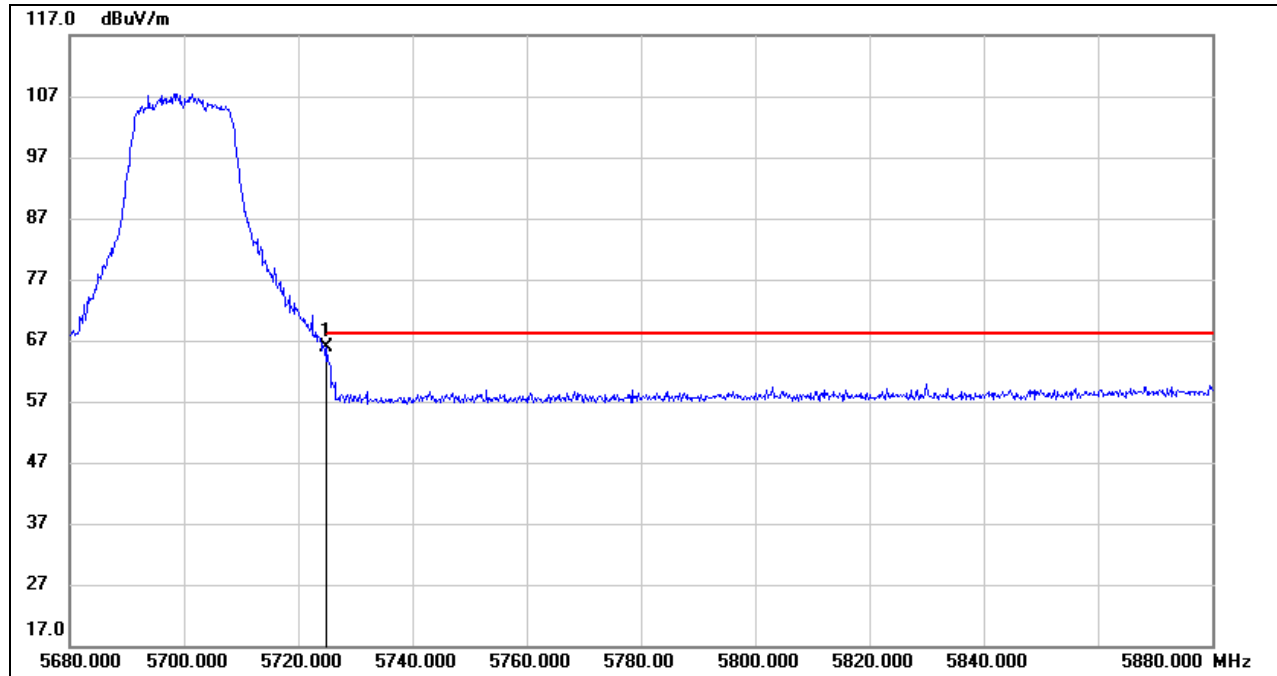


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 3.70              | 40.79             | 44.49              | 54.00             | -9.51          | AVG    |
| 2   | 5470.000           | 5.89              | 40.85             | 46.74              | /                 | /              | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5725.000           | 25.15             | 40.63             | 65.78              | 68.20             | -2.42          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

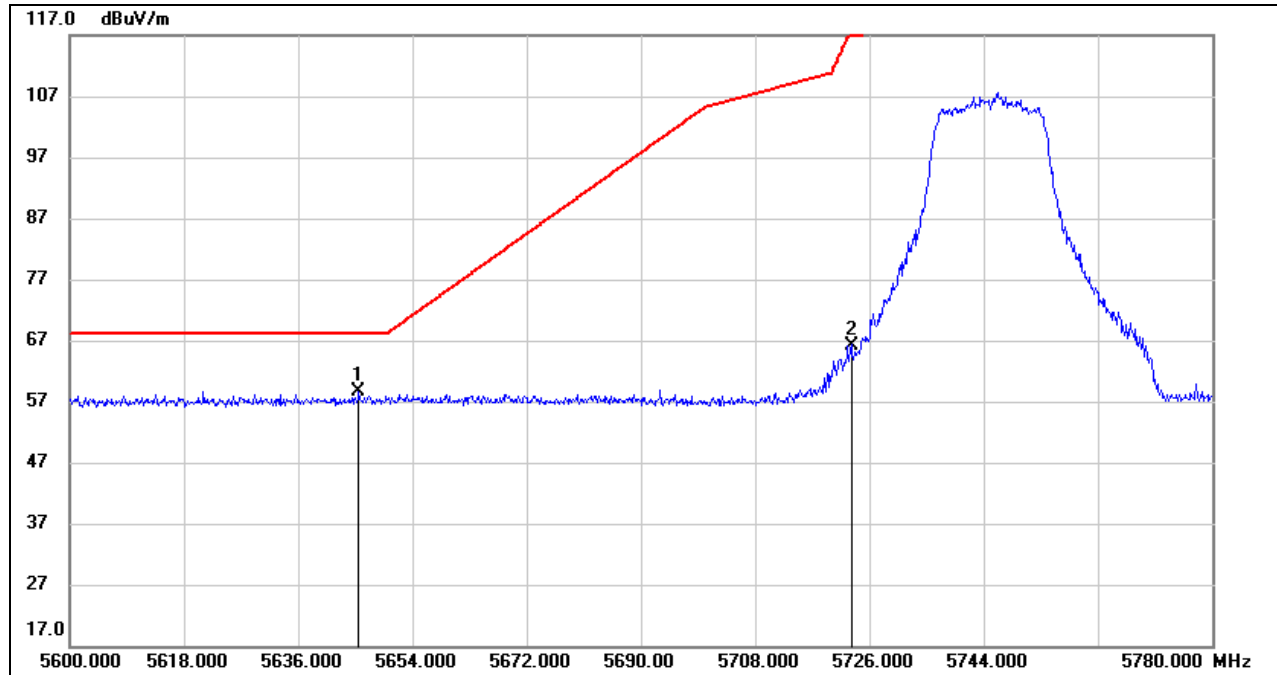
Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.



**UNII-3 BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

**PEAK**

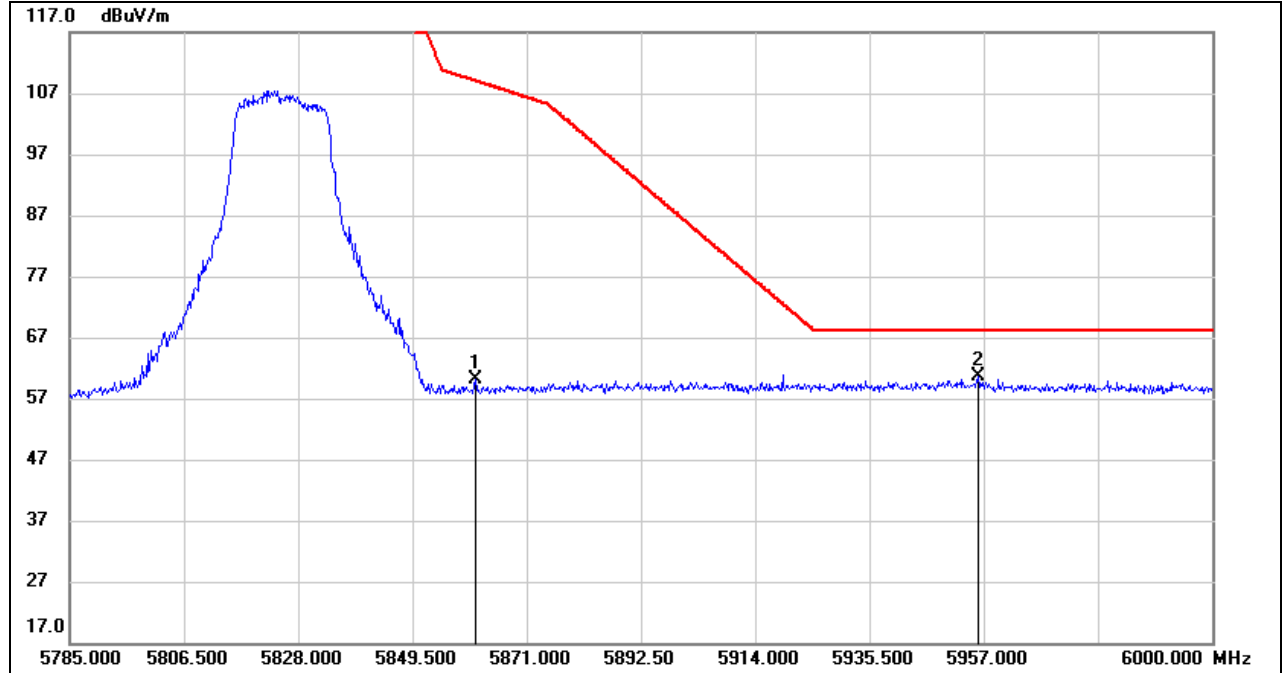


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5645.540           | 17.97             | 40.62             | 58.59              | 68.20             | -9.61          | peak   |
| 2   | 5723.120           | 25.64             | 40.61             | 66.25              | 117.91            | -51.66         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5861.325           | 18.47             | 41.57             | 60.04              | 109.03            | -48.99         | peak   |
| 2   | 5955.925           | 18.96             | 41.68             | 60.64              | 68.20             | -7.56          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

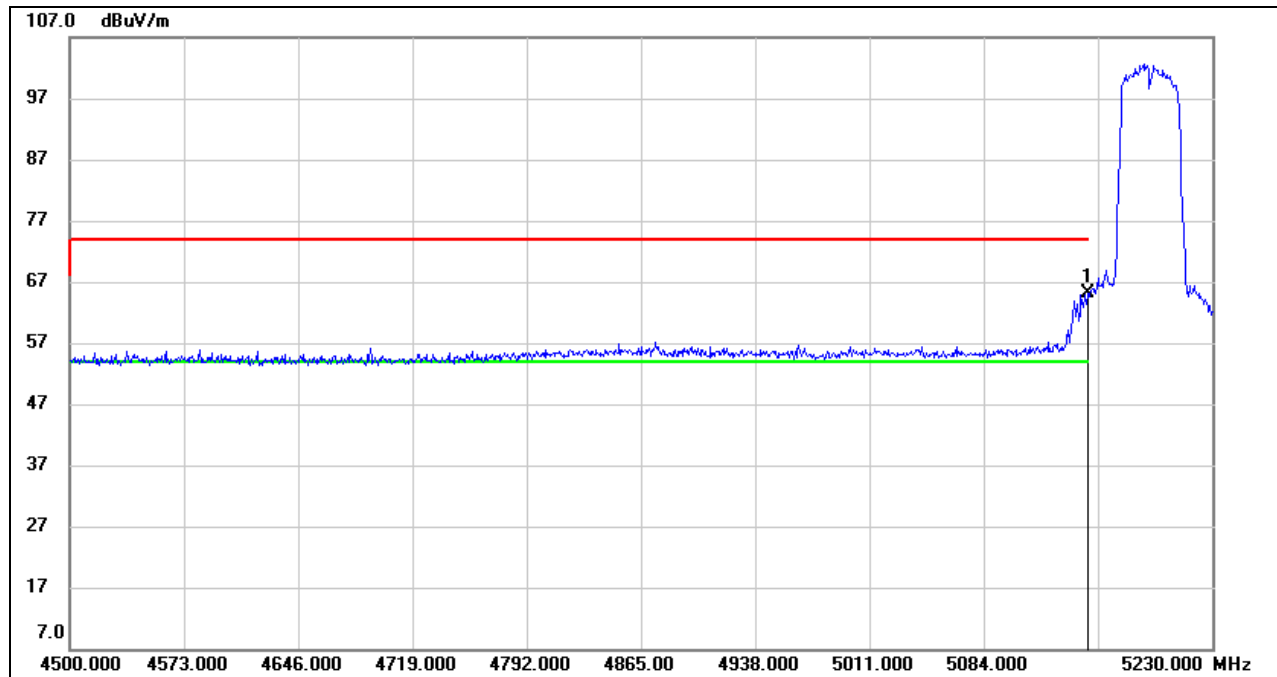


8.1.3. 802.11n HT40 MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

PEAK

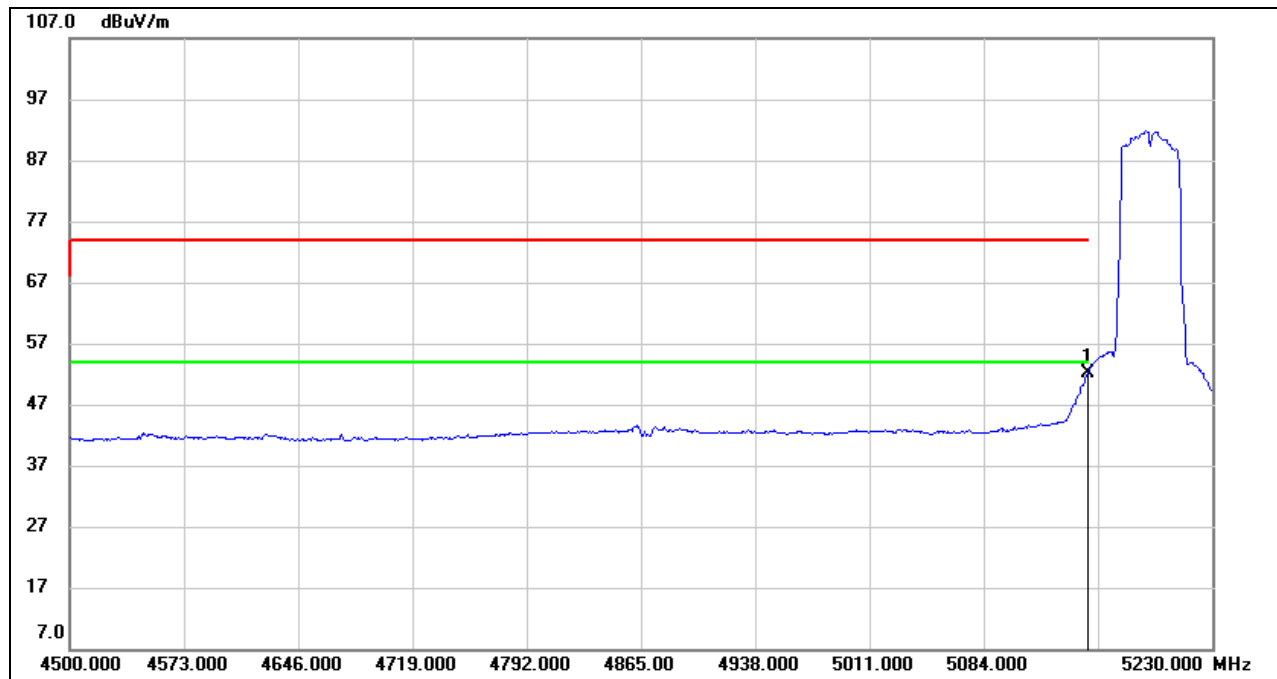


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 25.30             | 39.91             | 65.21              | 74.00             | -8.79          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



**AVG**



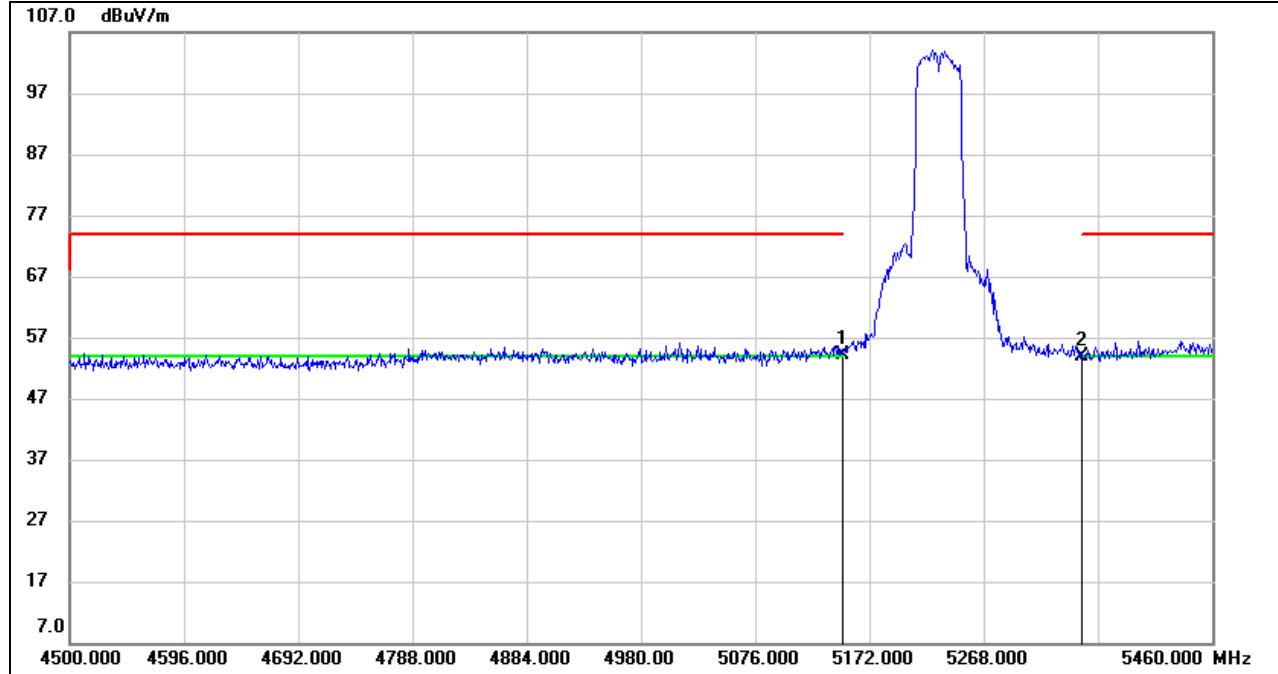
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 12.28             | 39.91             | 52.19              | 54.00             | -1.81          | AVG    |

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



# RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

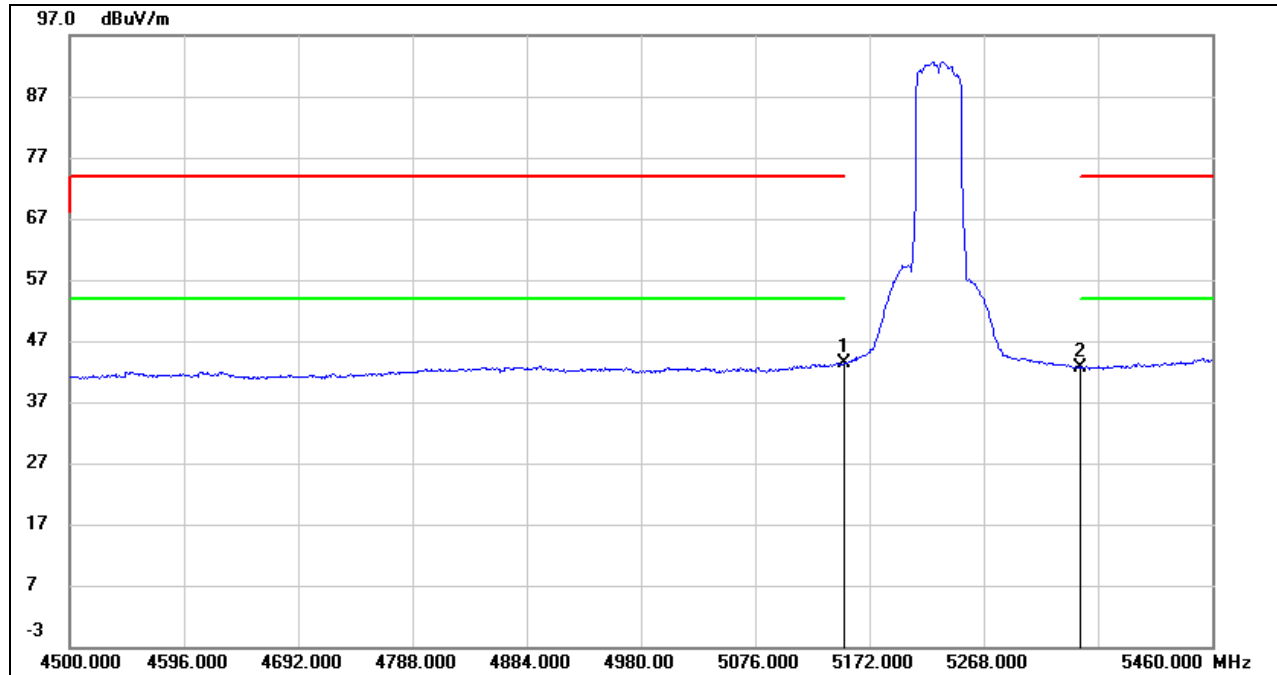
## PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 14.26             | 39.91             | 54.17              | 74.00             | -19.83         | peak   |
| 2   | 5350.000           | 13.91             | 40.08             | 53.99              | 74.00             | -20.01         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 3.39              | 39.91             | 43.30              | 54.00             | -10.70         | AVG    |
| 2   | 5350.000           | 2.59              | 40.08             | 42.67              | 54.00             | -11.33         | AVG    |

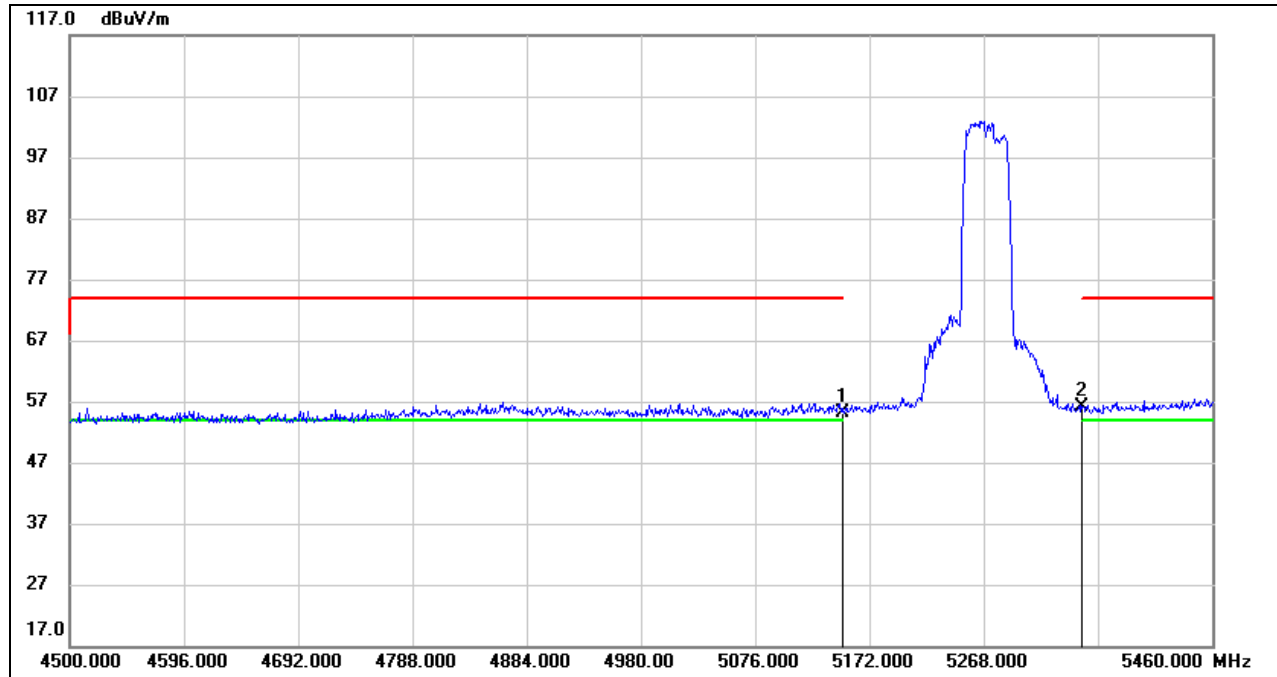
- Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.  
 6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2A BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 15.26             | 39.91             | 55.17              | 74.00             | -18.83         | peak   |
| 2   | 5350.000           | 16.02             | 40.08             | 56.10              | 74.00             | -17.90         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

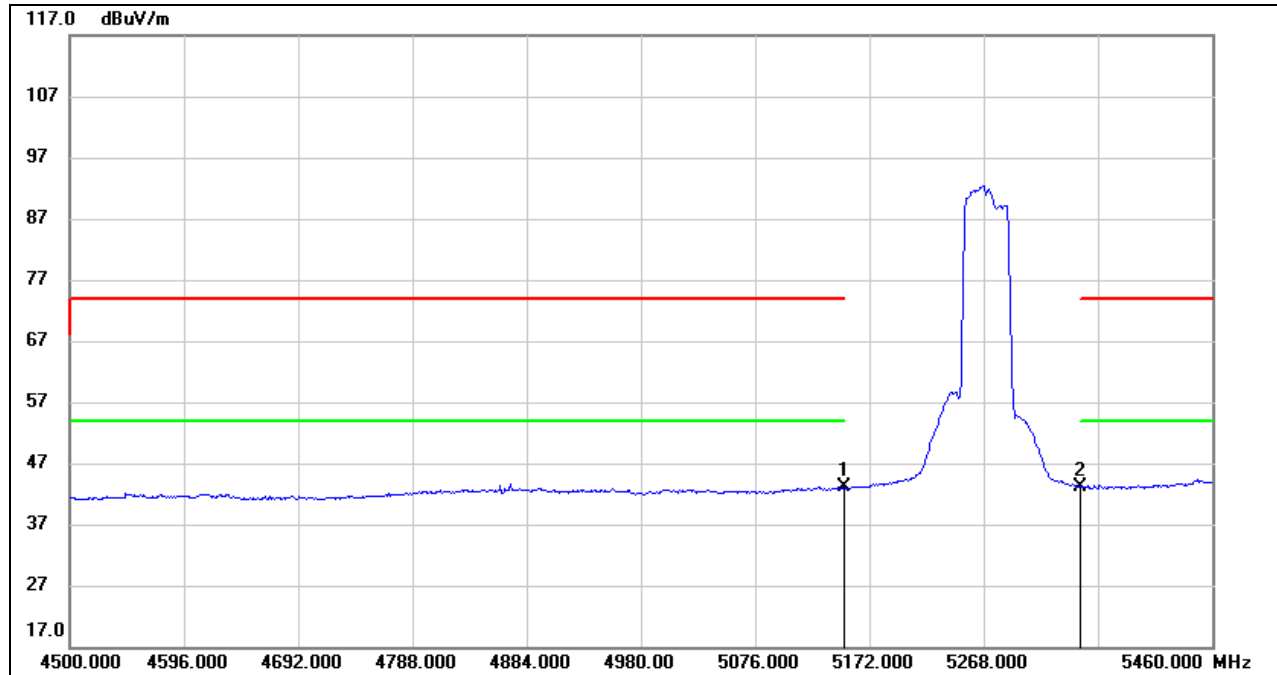
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

5. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 3.21              | 39.91             | 43.12              | 54.00             | -10.88         | AVG    |
| 2   | 5350.000           | 3.01              | 40.08             | 43.09              | 54.00             | -10.91         | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

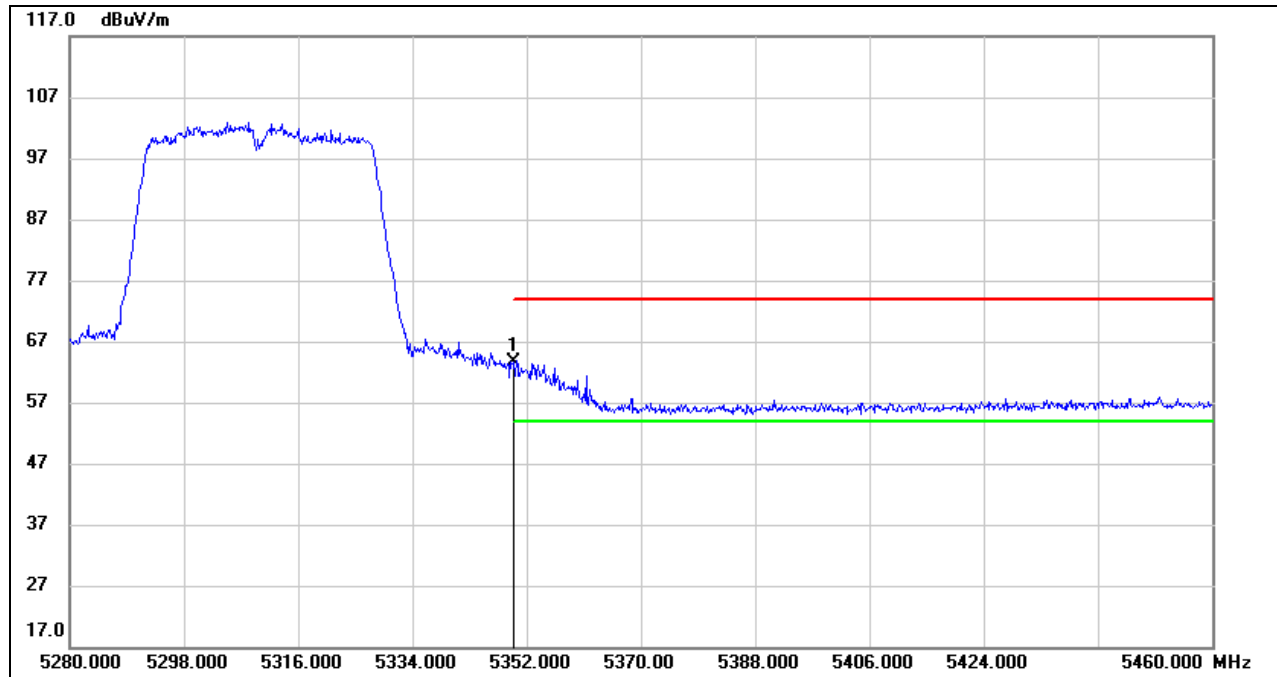
4. For the transmitting duration, please refer to clause 7.1.

5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

# RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

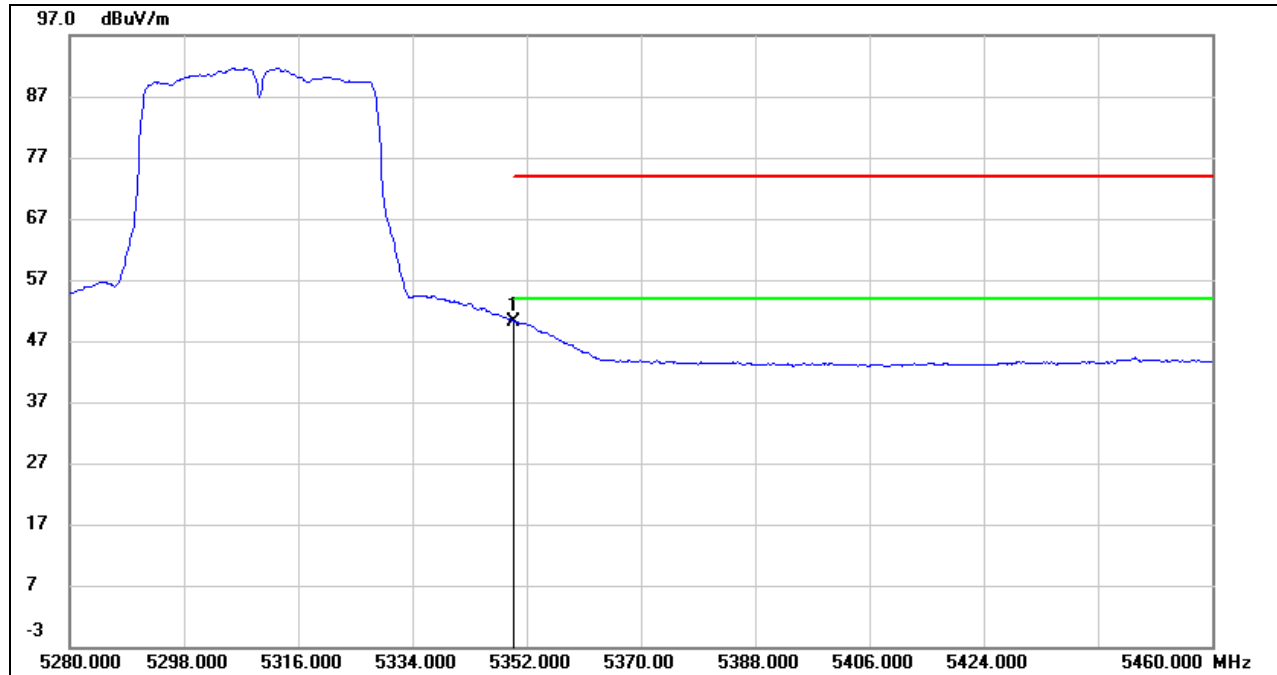
## PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 23.49             | 40.08             | 63.57              | 74.00             | -10.43         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5350.000           | 10.17             | 40.08             | 50.25              | 54.00             | -3.75          | AVG    |

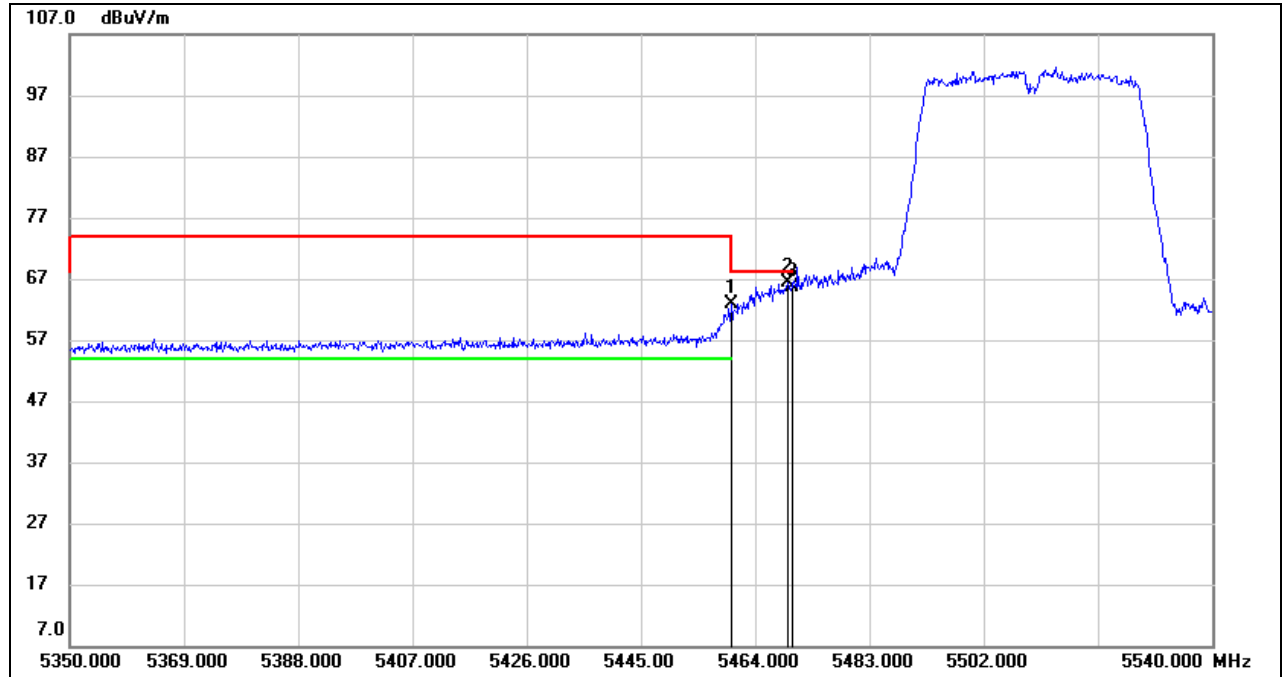
- Note:
1. Measurement = Reading Level + Correct Factor.
  2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
  3. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.
  4. For the transmitting duration, please refer to clause 7.1.
  5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

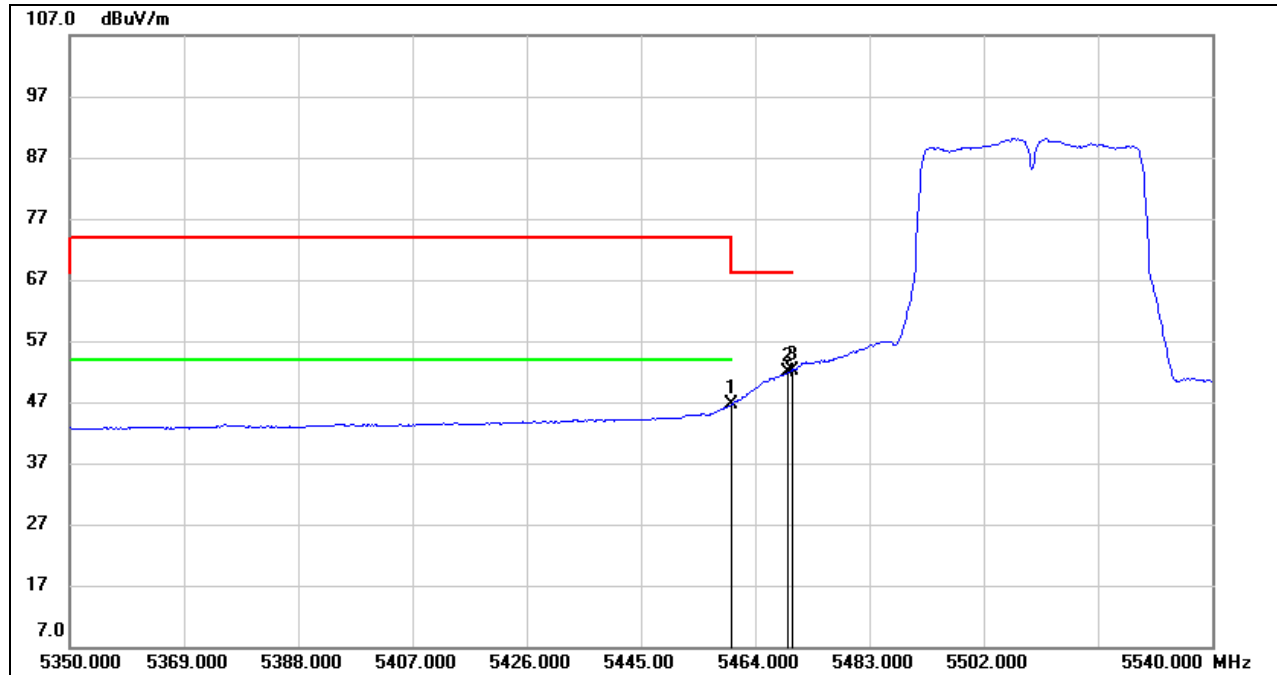
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 22.00             | 40.79             | 62.79              | 68.20             | -5.41          | peak   |
| 2   | 5469.510           | 25.50             | 40.85             | 66.35              | 68.20             | -1.85          | peak   |
| 3   | 5470.000           | 24.90             | 40.85             | 65.75              | 68.20             | -2.45          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5460.000        | 5.72           | 40.79          | 46.51           | 54.00          | -7.49       | AVG    |
| 2   | 5469.510        | 11.03          | 40.85          | 51.88           | /              | /           | AVG    |
| 3   | 5470.000        | 11.26          | 40.85          | 52.11           | /              | /           | AVG    |

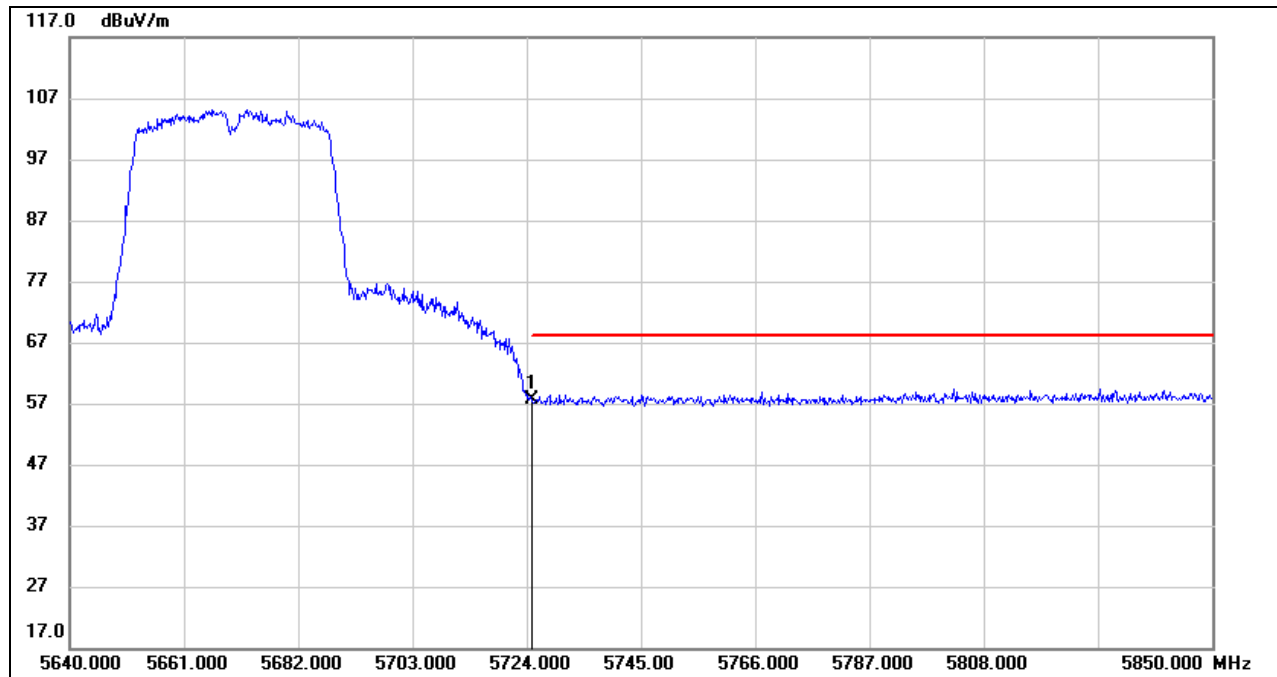
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.





**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5725.000           | 17.04             | 40.63             | 57.67              | 68.20             | -10.53         | peak   |

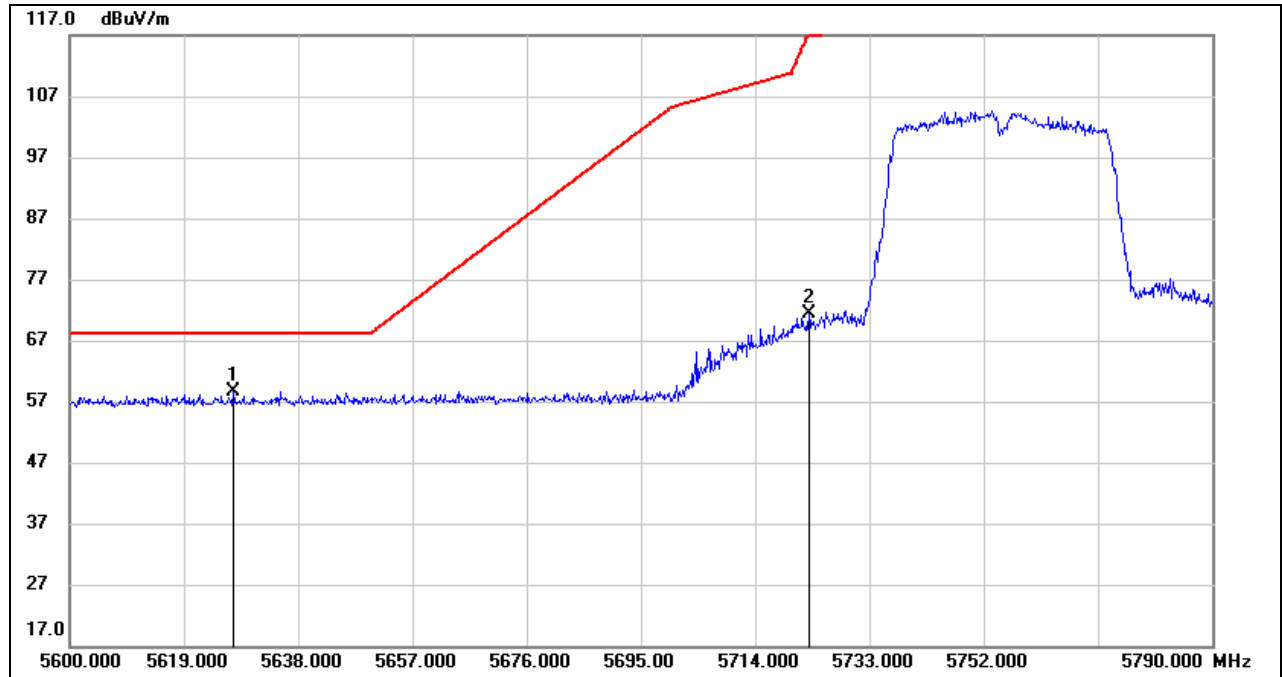
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-3 BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

**PEAK**

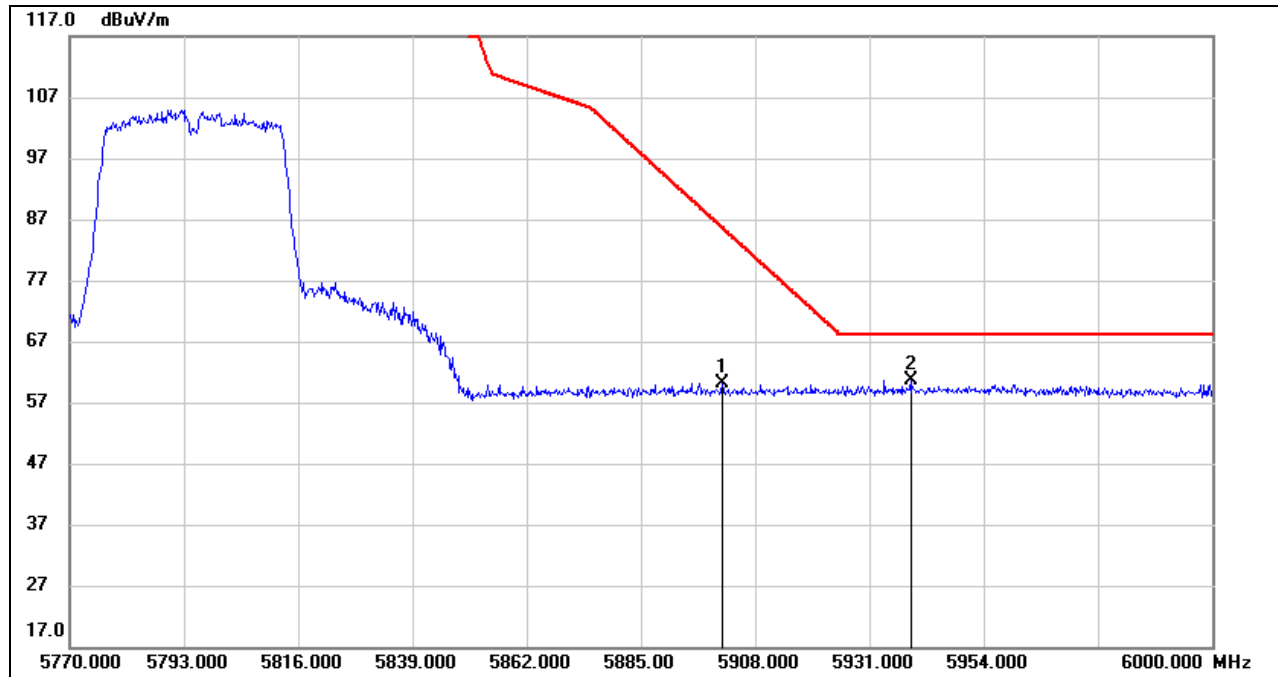


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5627.170           | 18.02             | 40.66             | 58.68              | 68.20             | -9.52          | peak   |
| 2   | 5722.930           | 30.70             | 40.61             | 71.31              | 117.48            | -46.17         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

# RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)

## PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5901.330           | 18.29             | 41.94             | 60.23              | 85.68             | -25.45         | peak   |
| 2   | 5939.280           | 18.88             | 41.76             | 60.64              | 68.20             | -7.56          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

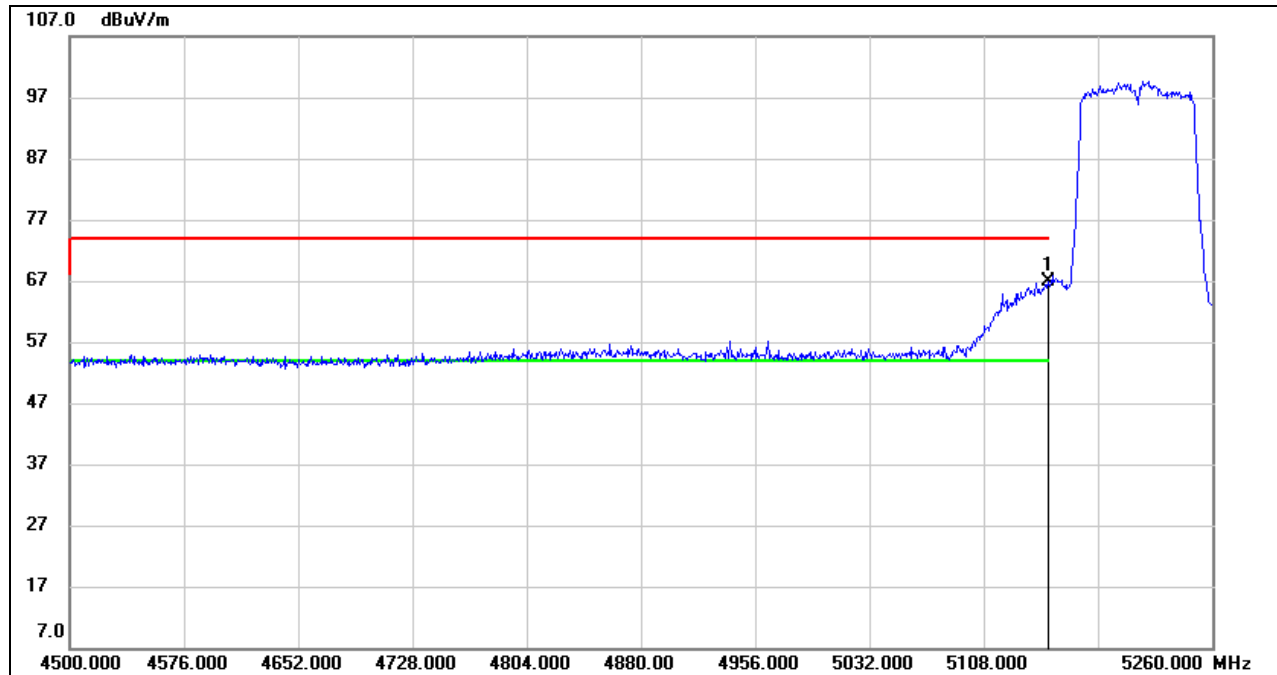
Note: All the polarities (Vertical & Horizontal) had been tested, only the worst data was recorded in the report.

8.1.4. 802.11ac VHT80 MODE

UNII-1 BAND

RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)

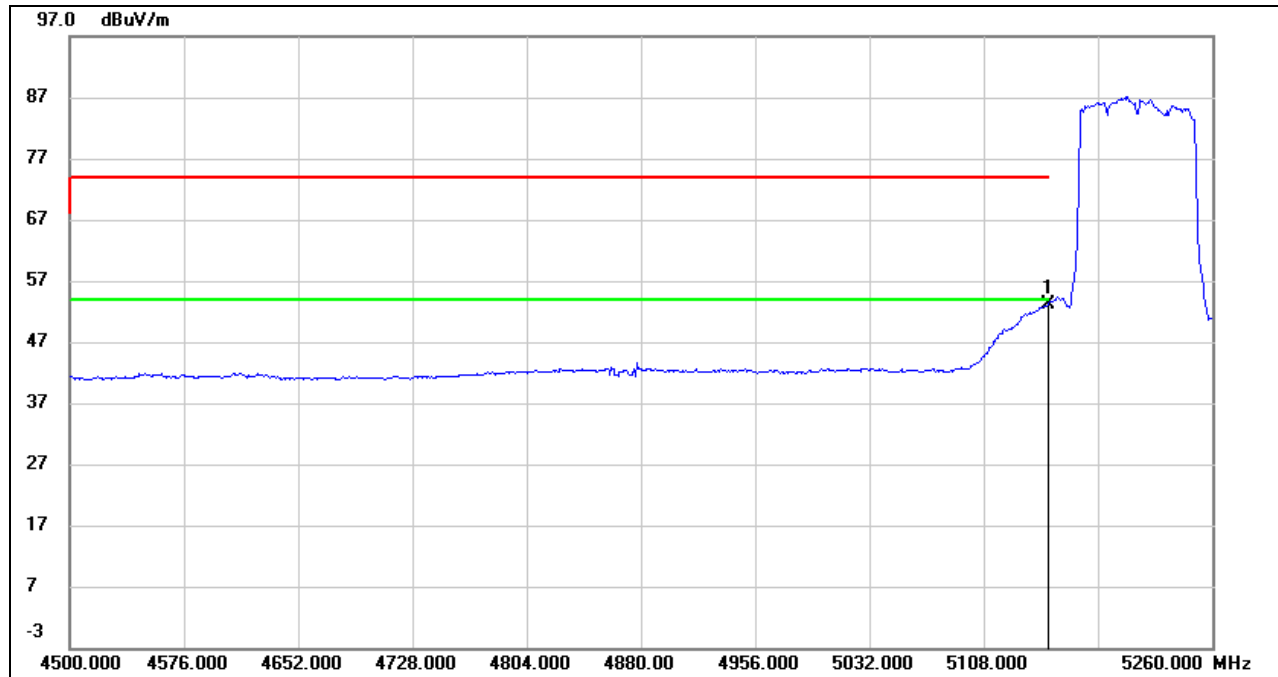
PEAK



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 26.86             | 39.91             | 66.77              | 74.00             | -7.23          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

### AVG



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 13.20             | 39.91             | 53.11              | 54.00             | -0.89          | AVG    |

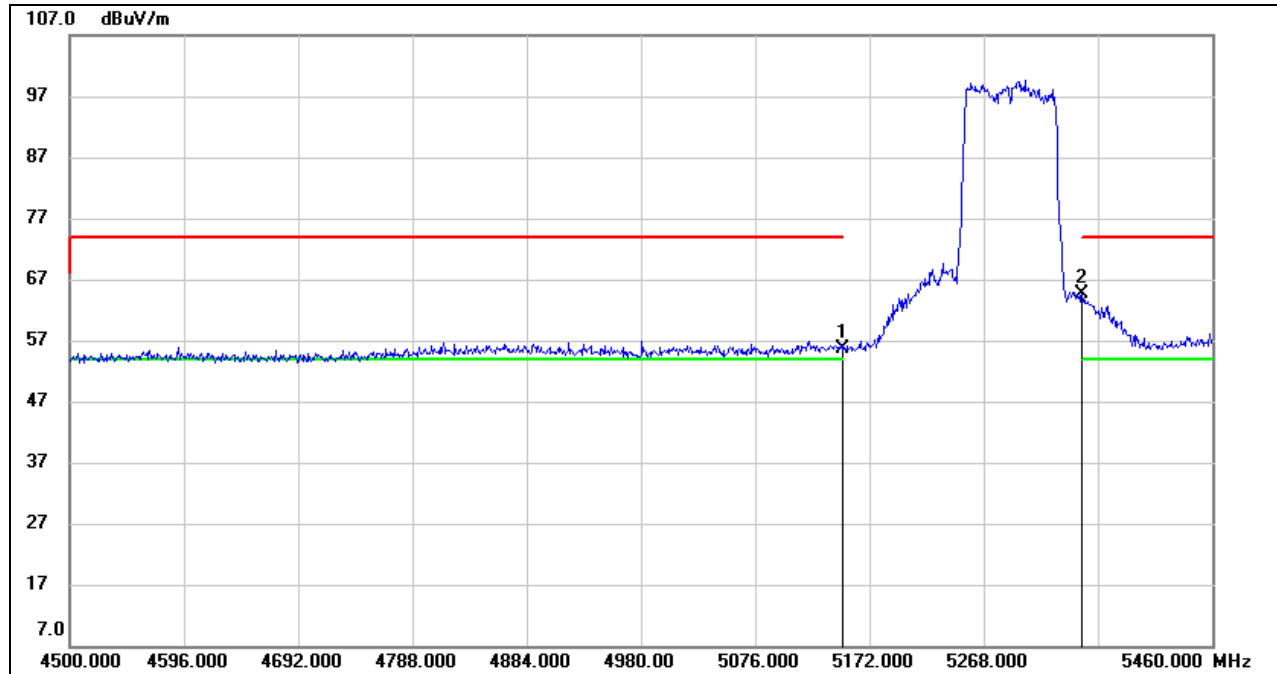
Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
 4. For the transmitting duration, please refer to clause 7.1.  
 5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2A BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

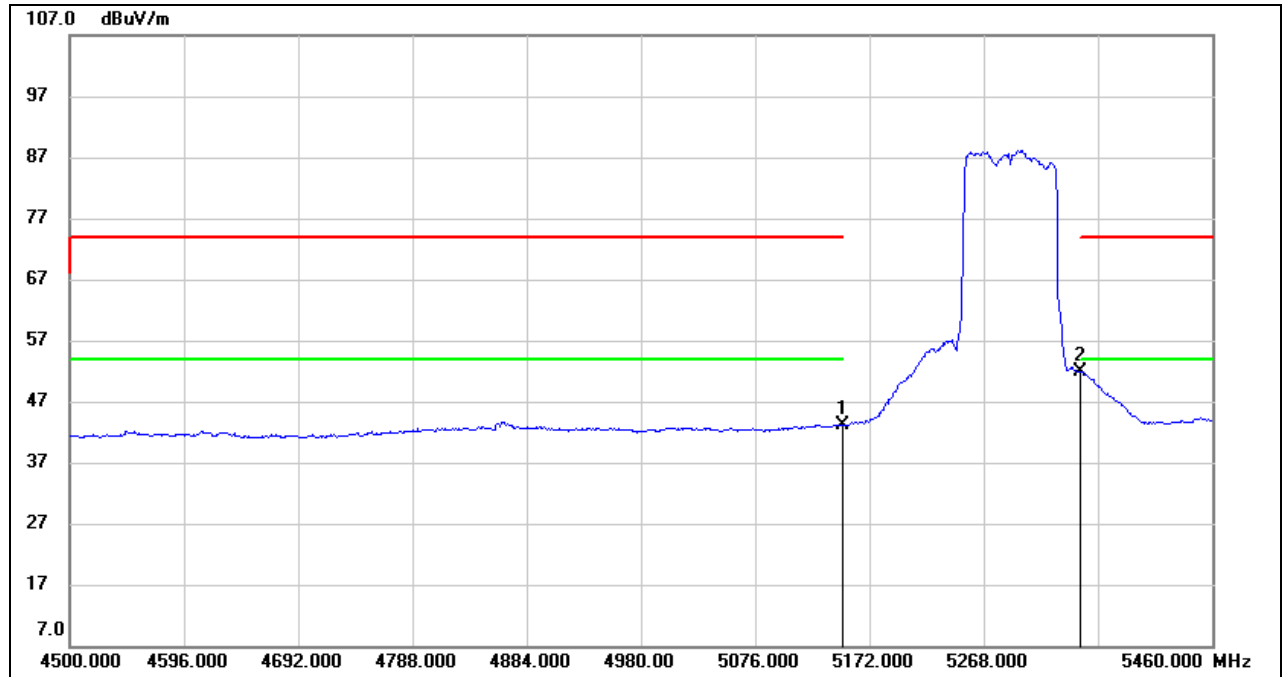
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5150.000           | 15.81             | 39.91             | 55.72              | 74.00             | -18.28         | peak   |
| 2   | 5350.000           | 24.63             | 40.08             | 64.71              | 74.00             | -9.29          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.  
 5. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

### AVG



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5150.000        | 3.14           | 39.91          | 43.05           | 54.00          | -10.95      | AVG    |
| 2   | 5350.000        | 11.74          | 40.08          | 51.82           | 54.00          | -2.18       | AVG    |

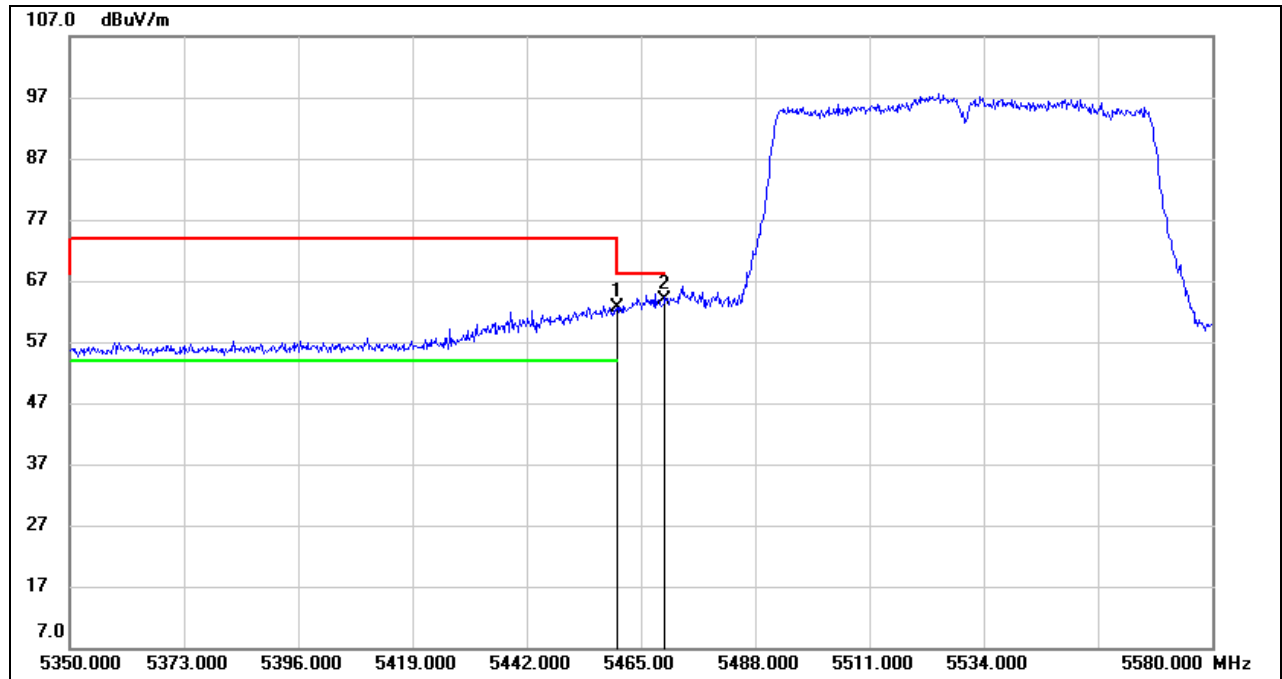
- Note: 1. Measurement = Reading Level + Correct Factor  
 2. AVG: VBW=1/Ton where: ton is transmit duration.  
 3. For duty cycle, please refer to clause 7.1.  
 4. Only the worst case emission will be recorder, if it complies with the limit, the other emissions deemed to comply with the limit.  
 6. For transmitters with operating frequencies in the band 5150-5250 MHz, all emissions outside the band 5150-5350 MHz shall not exceed -27 dBm/MHz e.i.r.p. The worst setting has been used for investigation during the measurement.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

**UNII-2C BAND**

**RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)**

**PEAK**

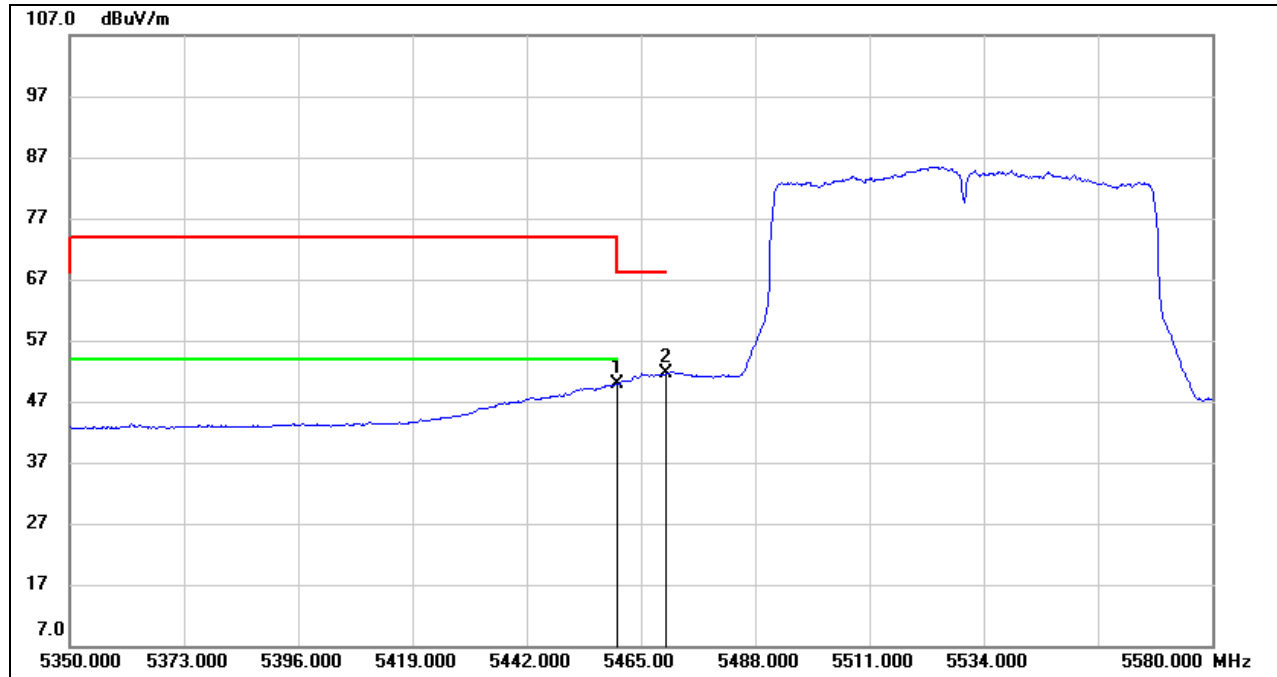


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5460.000           | 21.74             | 40.79             | 62.53              | 68.20             | -5.67          | peak   |
| 2   | 5470.000           | 23.03             | 40.85             | 63.88              | 68.20             | -4.32          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.



### AVG

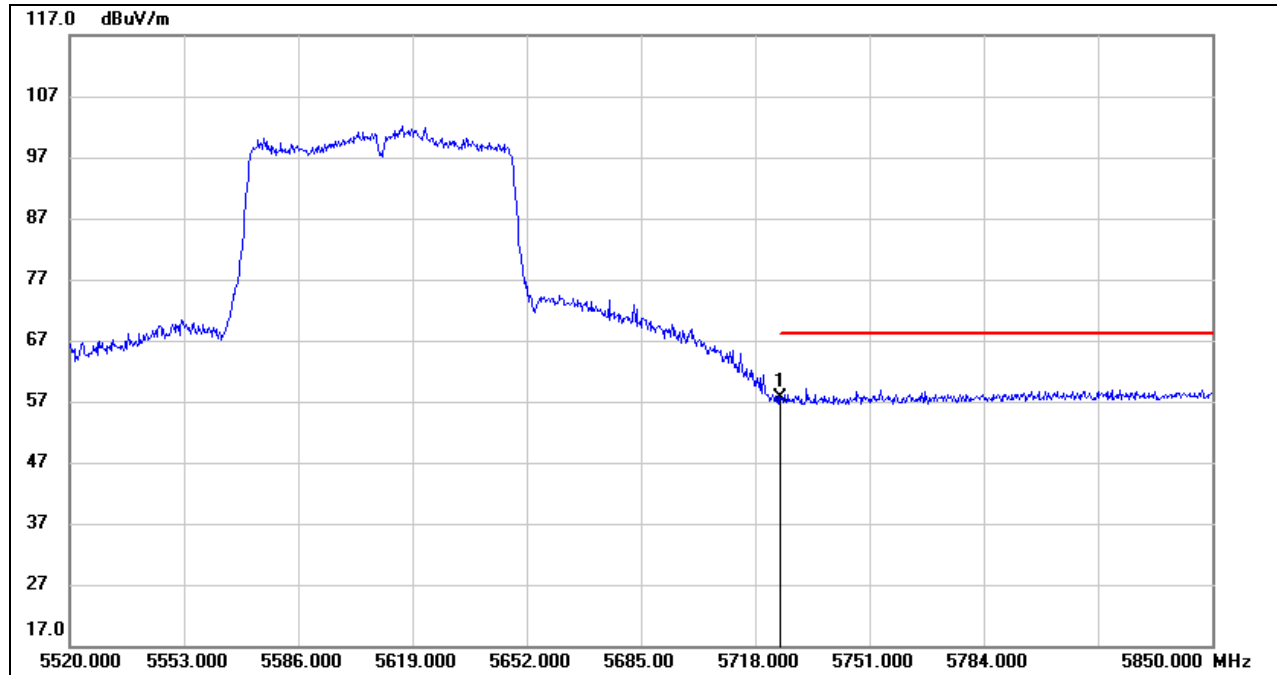


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 5460.000        | 9.05           | 40.79          | 49.84           | 54.00          | -4.16       | AVG    |
| 2   | 5470.000        | 10.74          | 40.85          | 51.59           | /              | /           | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
4. For the transmitting duration, please refer to clause 7.1.  
5. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

**RESTRICTED BANDEDGE (HIGH CHANNEL, VERTICAL)**

**PEAK**



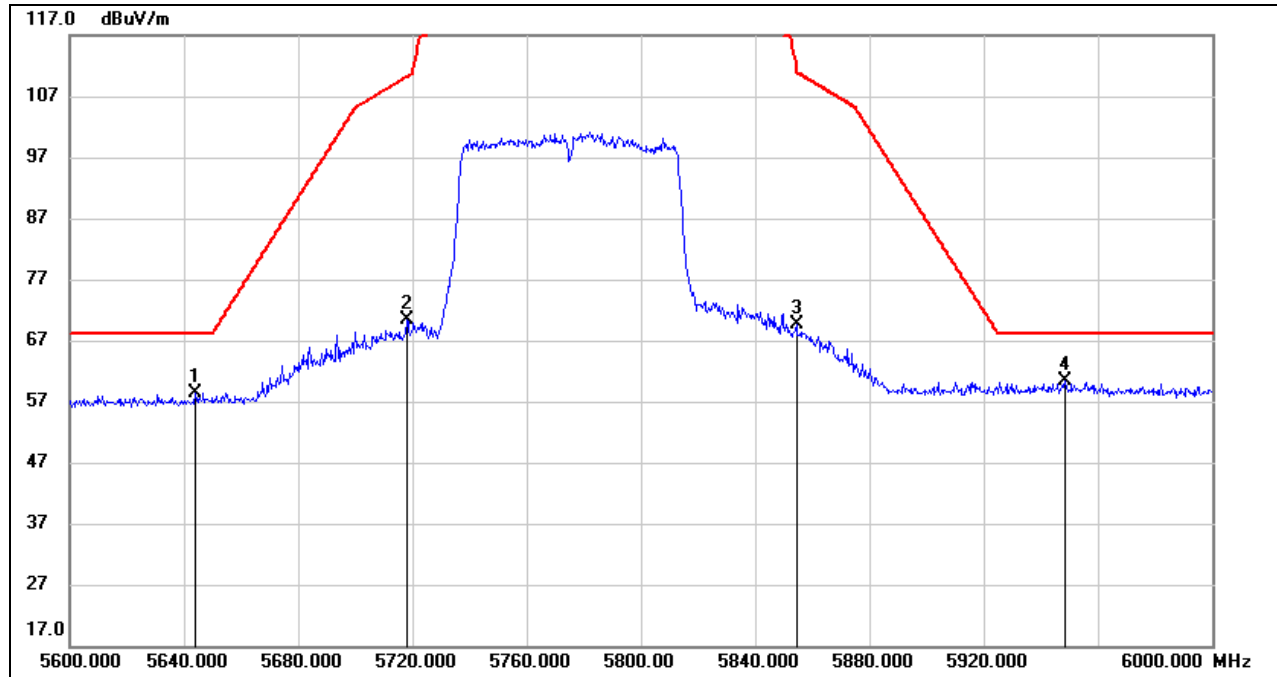
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5725.000           | 17.06             | 40.63             | 57.69              | 68.20             | -10.51         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

# UNII-3 BAND

## RESTRICTED BANDEDGE (LOW CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 5644.000           | 17.83             | 40.62             | 58.45              | 68.20             | -9.75          | peak   |
| 2   | 5718.000           | 29.74             | 40.59             | 70.33              | 110.24            | -39.91         | peak   |
| 3   | 5854.400           | 28.21             | 41.49             | 69.70              | 112.17            | -42.47         | peak   |
| 4   | 5948.400           | 18.55             | 41.71             | 60.26              | 68.20             | -7.94          | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Only the worst data was recorded, if it complies with the limit, the other emissions deemed to comply with the limit.

Note: All the polarities (Vertical & Horizontal) and Antennas had been tested, only the worst data was recorded in the report.

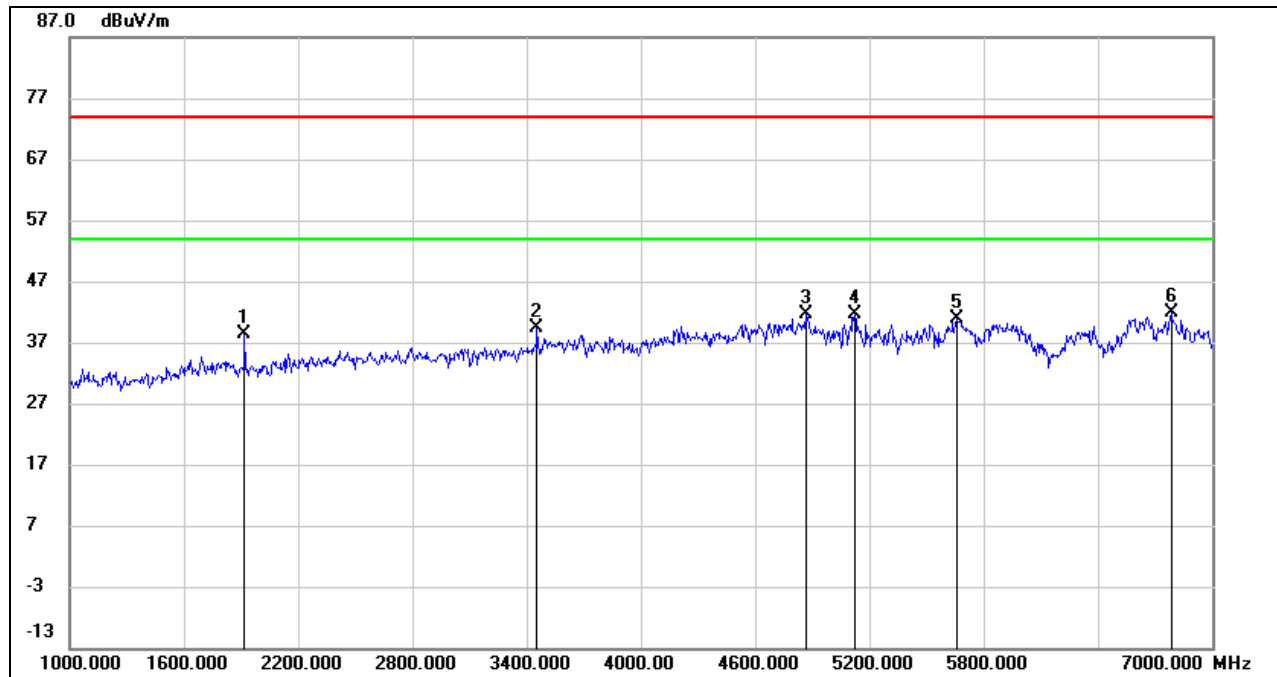
## 8.2. SPURIOUS EMISSIONS (1 GHz ~ 7 GHz)

### 8.2.1. 802.11n HT20 MODE

#### UNII-1 BAND

#### MODE TEST RESULTS (WORST CASE)

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 49.42          | -11.02         | 38.40           | 74.00          | -35.60      | peak   |
| 2   | 3454.000        | 45.28          | -6.02          | 39.26           | 74.00          | -34.74      | peak   |
| 3   | 4864.000        | 42.21          | -0.60          | 41.61           | 74.00          | -32.39      | peak   |
| 4   | 5122.000        | 41.26          | 0.33           | 41.59           | 74.00          | -32.41      | peak   |
| 5   | 5656.000        | 39.40          | 1.44           | 40.84           | 74.00          | -33.16      | peak   |
| 6   | 6784.000        | 37.35          | 4.56           | 41.91           | 74.00          | -32.09      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

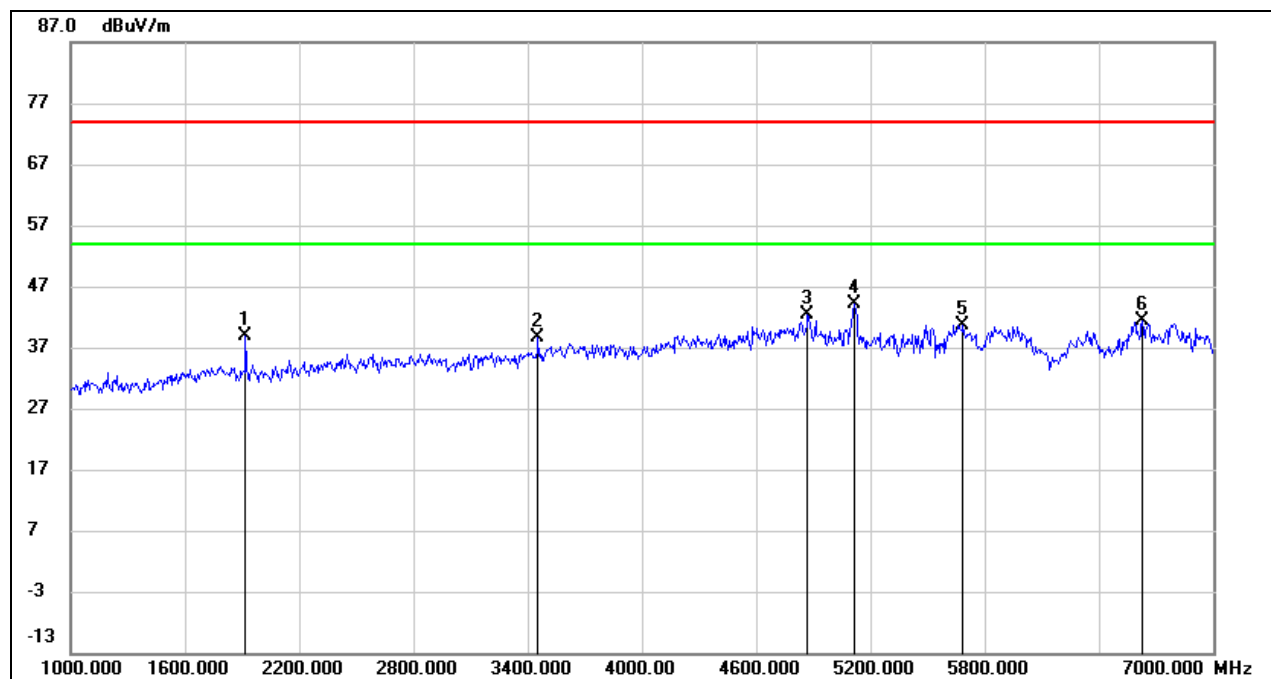
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.80             | -11.02            | 38.78              | 74.00             | -35.22         | peak   |
| 2   | 3454.000           | 44.74             | -6.02             | 38.72              | 74.00             | -35.28         | peak   |
| 3   | 4870.000           | 43.04             | -0.60             | 42.44              | 74.00             | -31.56         | peak   |
| 4   | 5116.000           | 43.72             | 0.29              | 44.01              | 74.00             | -29.99         | peak   |
| 5   | 5686.000           | 39.24             | 1.44              | 40.68              | 74.00             | -33.32         | peak   |
| 6   | 6628.000           | 36.98             | 4.50              | 41.48              | 74.00             | -32.52         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

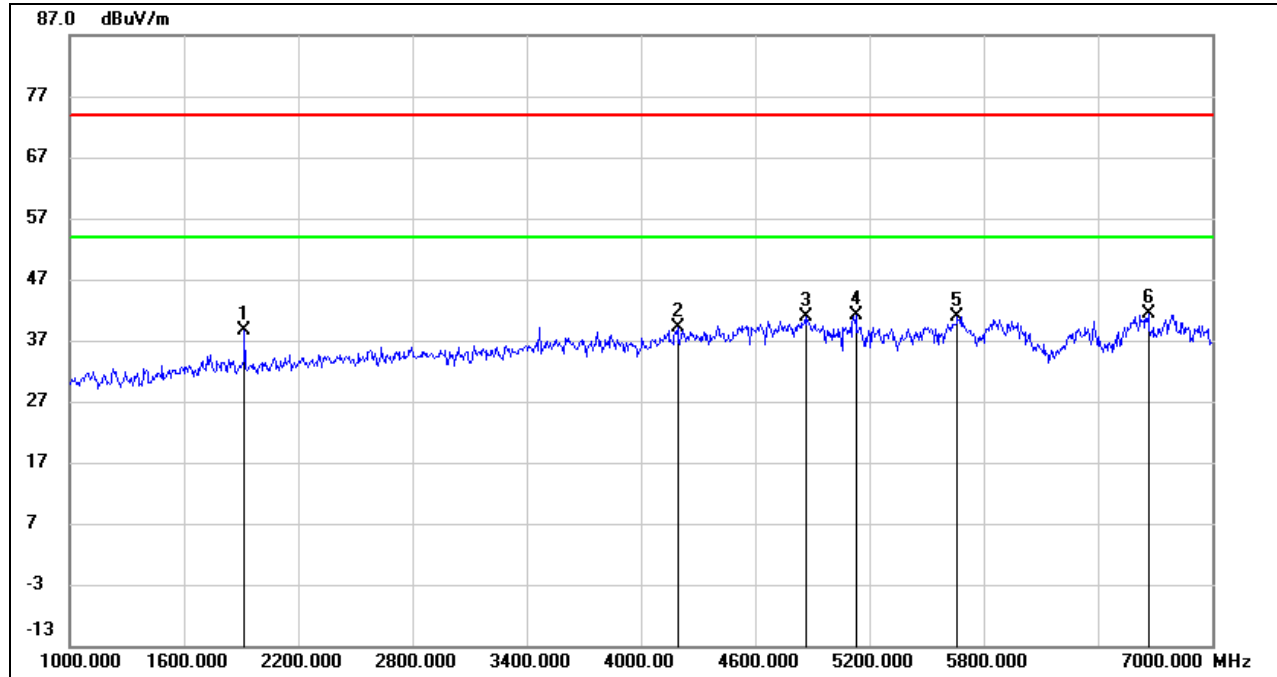
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.65             | -11.02            | 38.63              | 74.00             | -35.37         | peak   |
| 2   | 4192.000           | 42.02             | -2.81             | 39.21              | 74.00             | -34.79         | peak   |
| 3   | 4864.000           | 41.37             | -0.60             | 40.77              | 74.00             | -33.23         | peak   |
| 4   | 5128.000           | 40.78             | 0.38              | 41.16              | 74.00             | -32.84         | peak   |
| 5   | 5662.000           | 39.49             | 1.44              | 40.93              | 74.00             | -33.07         | peak   |
| 6   | 6664.000           | 36.80             | 4.53              | 41.33              | 74.00             | -32.67         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

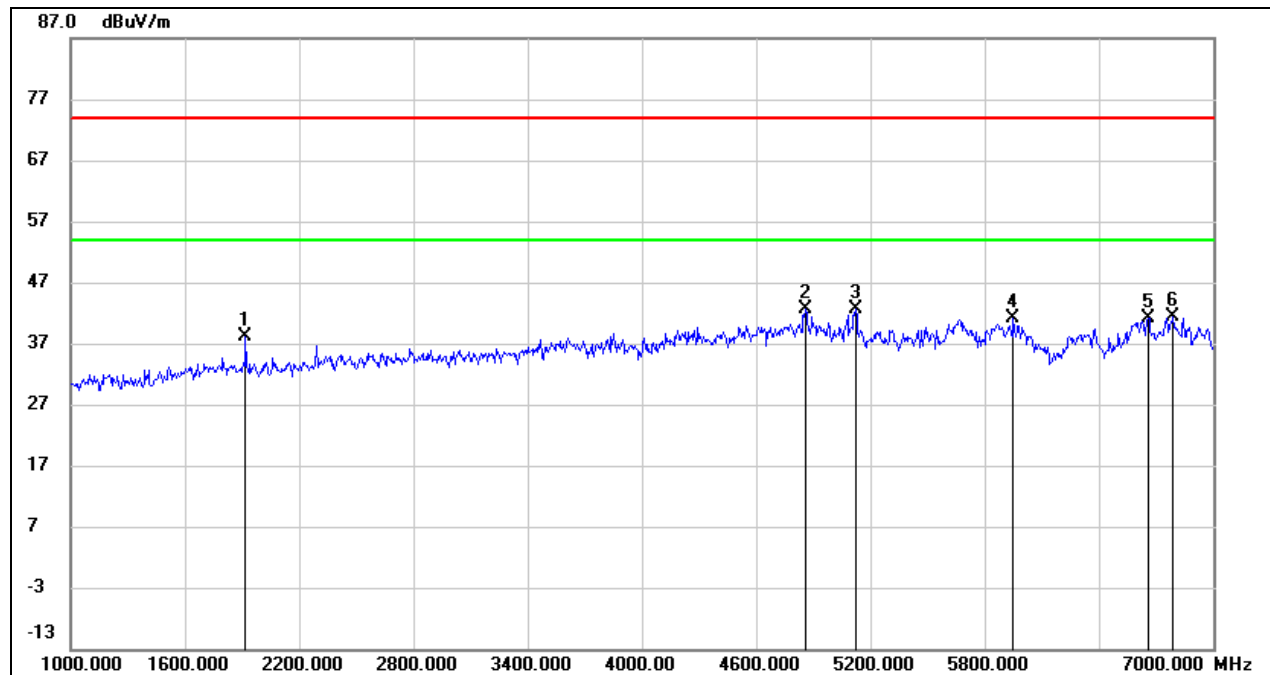
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.19             | -11.02            | 38.17              | 74.00             | -35.83         | peak   |
| 2   | 4858.000           | 43.18             | -0.61             | 42.57              | 74.00             | -31.43         | peak   |
| 3   | 5122.000           | 42.23             | 0.33              | 42.56              | 74.00             | -31.44         | peak   |
| 4   | 5950.000           | 39.00             | 2.01              | 41.01              | 74.00             | -32.99         | peak   |
| 5   | 6658.000           | 36.70             | 4.51              | 41.21              | 74.00             | -32.79         | peak   |
| 6   | 6790.000           | 36.89             | 4.57              | 41.46              | 74.00             | -32.54         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

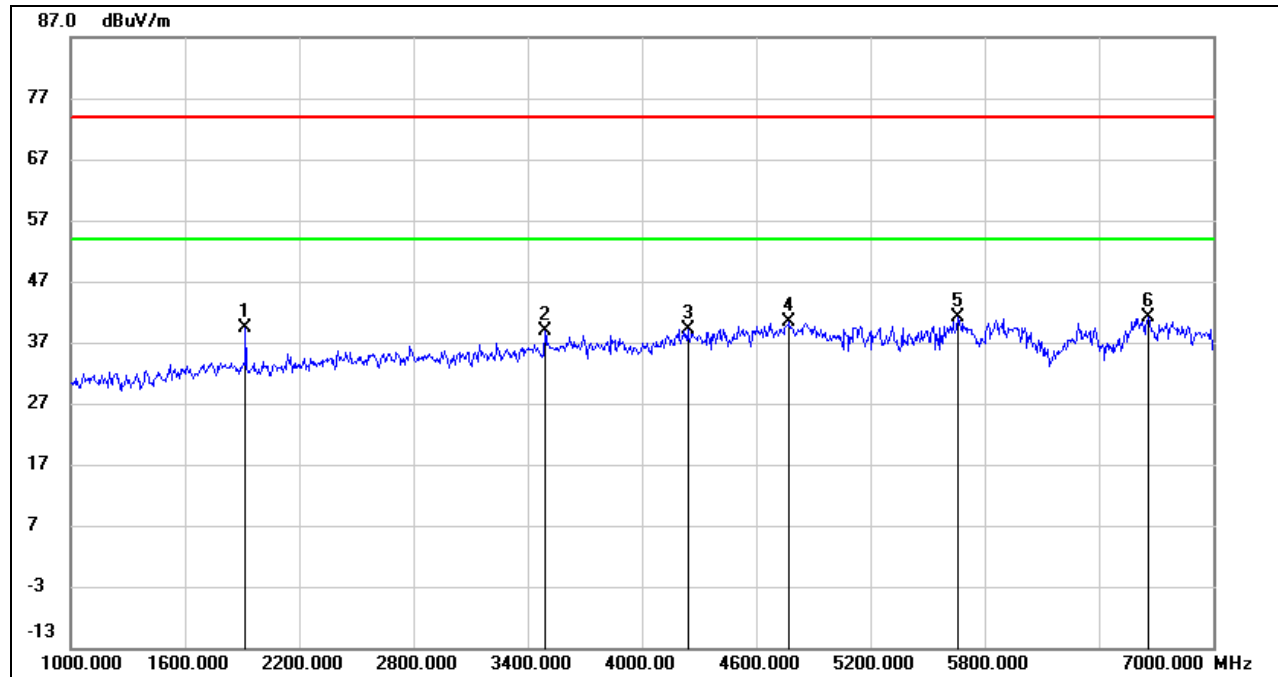
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 50.42             | -11.02            | 39.40              | 74.00             | -34.60         | peak   |
| 2   | 3490.000           | 44.63             | -5.86             | 38.77              | 74.00             | -35.23         | peak   |
| 3   | 4240.000           | 42.00             | -2.76             | 39.24              | 74.00             | -34.76         | peak   |
| 4   | 4774.000           | 41.13             | -0.79             | 40.34              | 74.00             | -33.66         | peak   |
| 5   | 5656.000           | 39.70             | 1.44              | 41.14              | 74.00             | -32.86         | peak   |
| 6   | 6658.000           | 36.56             | 4.51              | 41.07              | 74.00             | -32.93         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

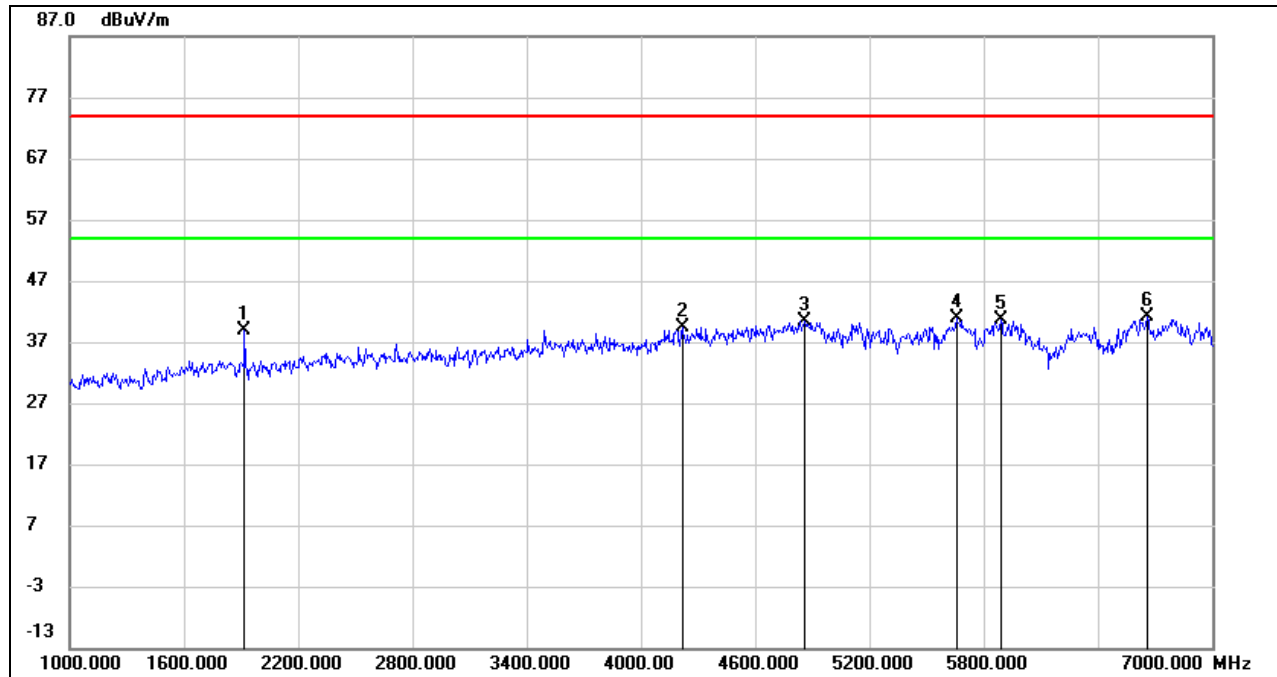
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

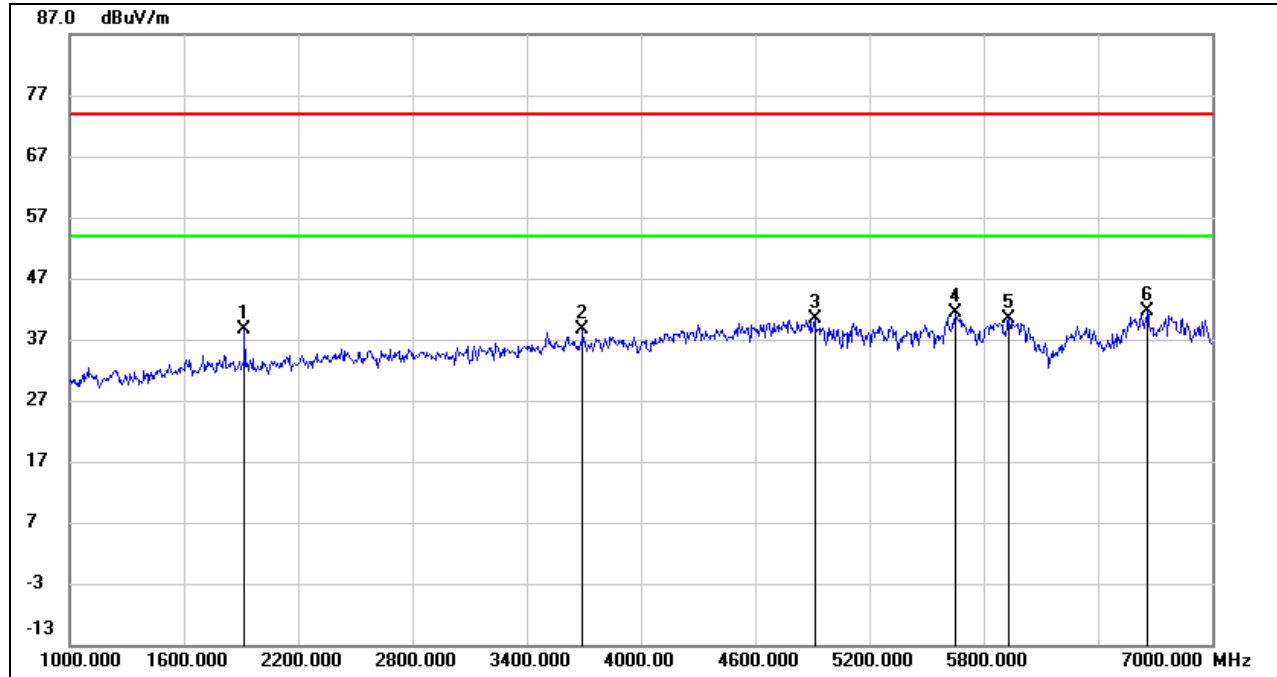
| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.88             | -11.02            | 38.86              | 74.00             | -35.14         | peak   |
| 2   | 4216.000           | 42.16             | -2.75             | 39.41              | 74.00             | -34.59         | peak   |
| 3   | 4858.000           | 40.89             | -0.61             | 40.28              | 74.00             | -33.72         | peak   |
| 4   | 5656.000           | 39.47             | 1.44              | 40.91              | 74.00             | -33.09         | peak   |
| 5   | 5890.000           | 38.91             | 1.79              | 40.70              | 74.00             | -33.30         | peak   |
| 6   | 6658.000           | 36.58             | 4.51              | 41.09              | 74.00             | -32.91         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2A BAND

### MODE TEST RESULTS (WORST CASE)

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.75             | -11.02            | 38.73              | 74.00             | -35.27         | peak   |
| 2   | 3694.000           | 43.54             | -4.85             | 38.69              | 74.00             | -35.31         | peak   |
| 3   | 4912.000           | 41.00             | -0.56             | 40.44              | 74.00             | -33.56         | peak   |
| 4   | 5650.000           | 39.84             | 1.44              | 41.28              | 74.00             | -32.72         | peak   |
| 5   | 5932.000           | 38.36             | 1.94              | 40.30              | 74.00             | -33.70         | peak   |
| 6   | 6658.000           | 37.18             | 4.51              | 41.69              | 74.00             | -32.31         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

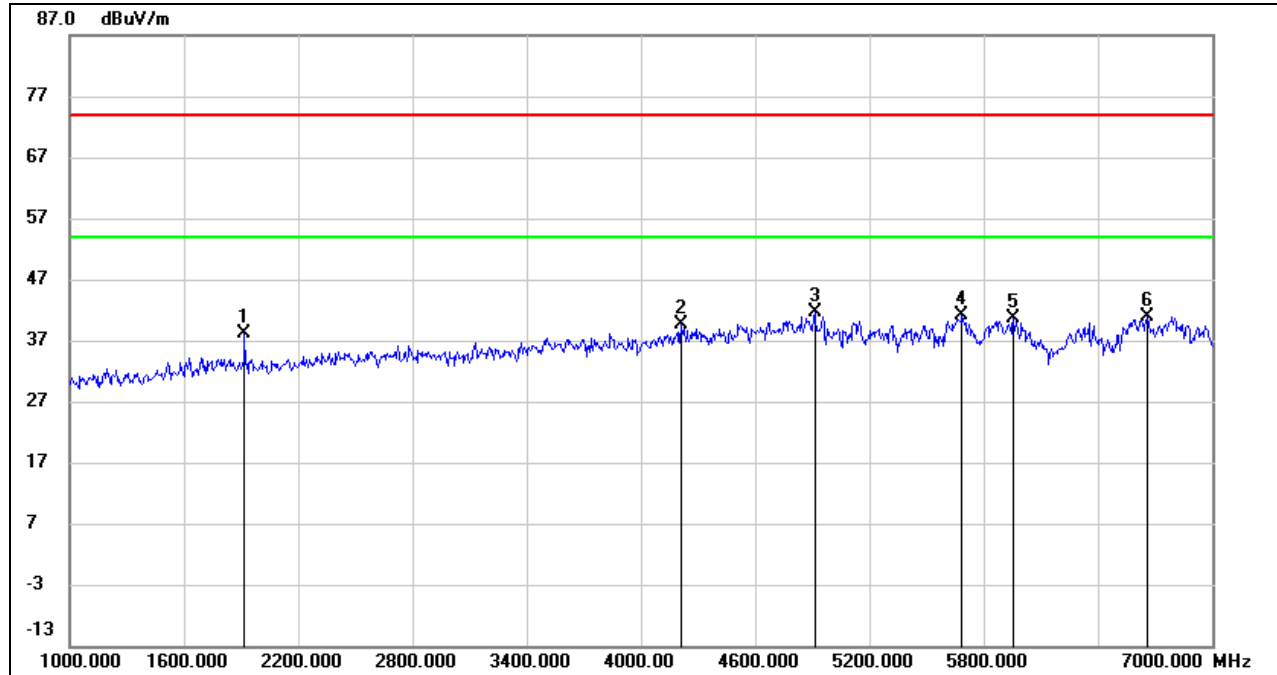
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.15             | -11.02            | 38.13              | 74.00             | -35.87         | peak   |
| 2   | 4210.000           | 42.29             | -2.73             | 39.56              | 74.00             | -34.44         | peak   |
| 3   | 4912.000           | 42.21             | -0.56             | 41.65              | 74.00             | -32.35         | peak   |
| 4   | 5686.000           | 39.80             | 1.44              | 41.24              | 74.00             | -32.76         | peak   |
| 5   | 5956.000           | 38.51             | 2.04              | 40.55              | 74.00             | -33.45         | peak   |
| 6   | 6658.000           | 36.31             | 4.51              | 40.82              | 74.00             | -33.18         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

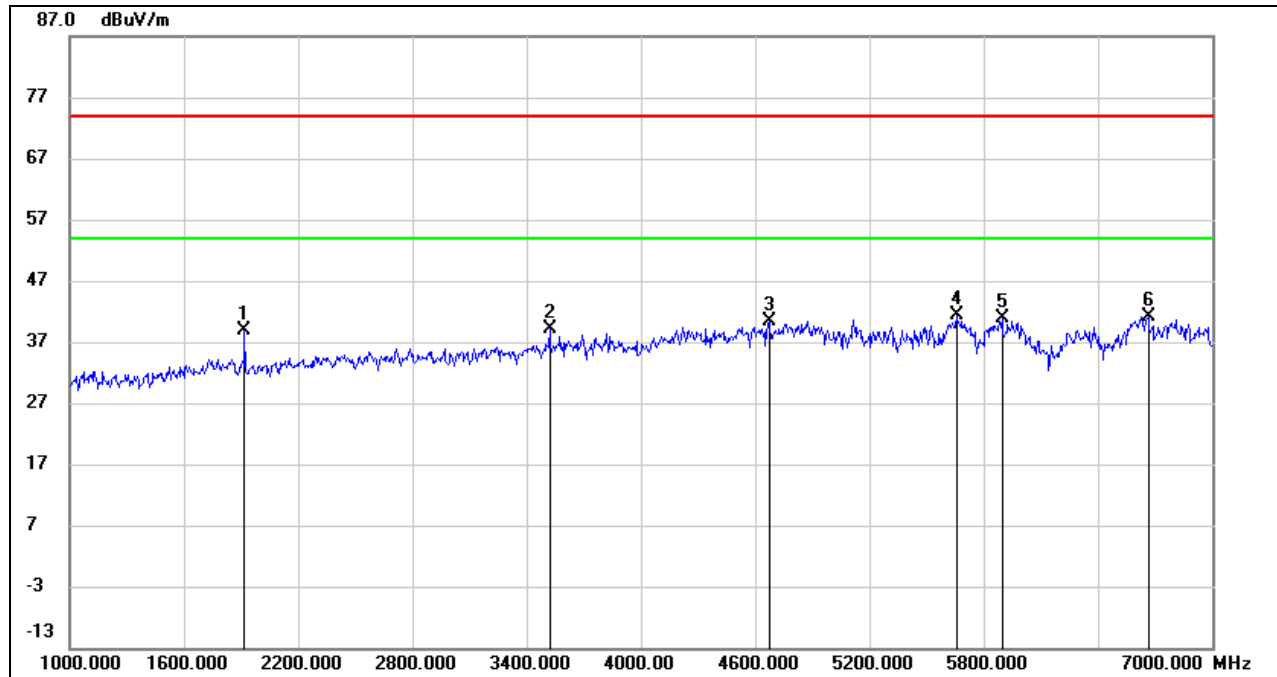
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 50.01             | -11.02            | 38.99              | 74.00             | -35.01         | peak   |
| 2   | 3520.000           | 44.95             | -5.71             | 39.24              | 74.00             | -34.76         | peak   |
| 3   | 4672.000           | 41.76             | -1.29             | 40.47              | 74.00             | -33.53         | peak   |
| 4   | 5656.000           | 39.86             | 1.44              | 41.30              | 74.00             | -32.70         | peak   |
| 5   | 5896.000           | 38.97             | 1.82              | 40.79              | 74.00             | -33.21         | peak   |
| 6   | 6664.000           | 36.70             | 4.53              | 41.23              | 74.00             | -32.77         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

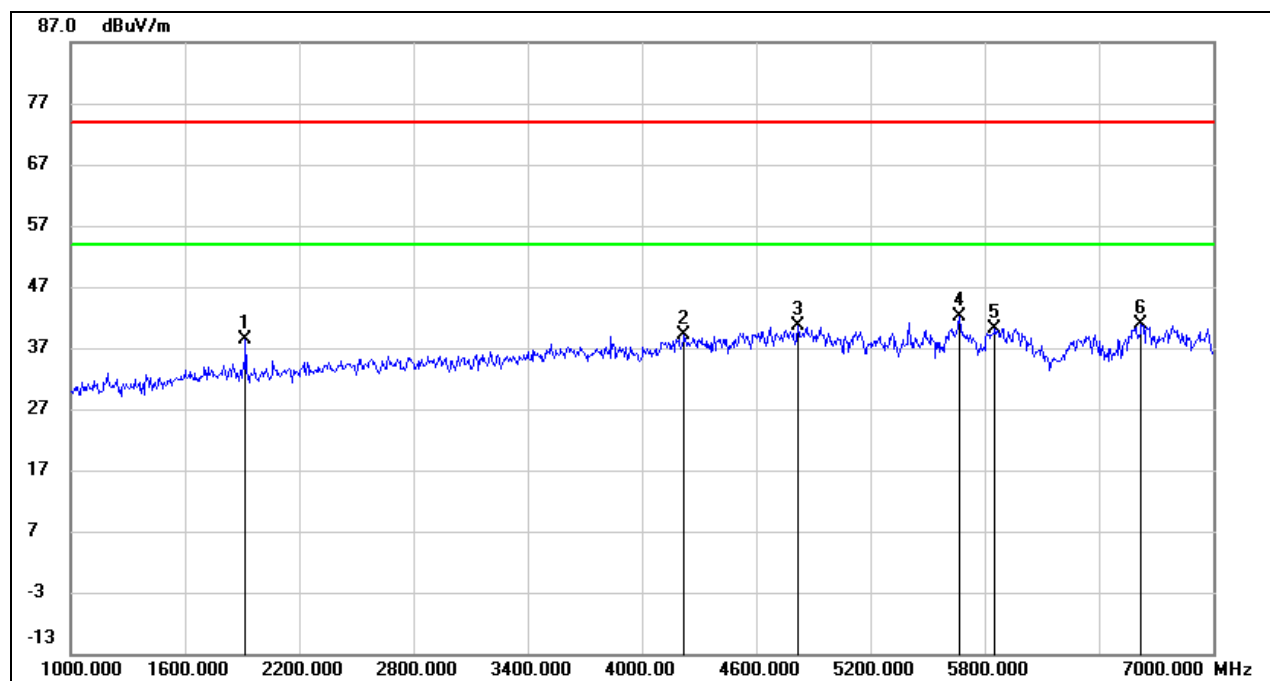
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.28             | -11.02            | 38.26              | 74.00             | -35.74         | peak   |
| 2   | 4222.000           | 41.84             | -2.75             | 39.09              | 74.00             | -34.91         | peak   |
| 3   | 4822.000           | 41.22             | -0.63             | 40.59              | 74.00             | -33.41         | peak   |
| 4   | 5668.000           | 40.75             | 1.44              | 42.19              | 74.00             | -31.81         | peak   |
| 5   | 5854.000           | 38.56             | 1.64              | 40.20              | 74.00             | -33.80         | peak   |
| 6   | 6622.000           | 36.31             | 4.51              | 40.82              | 74.00             | -33.18         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

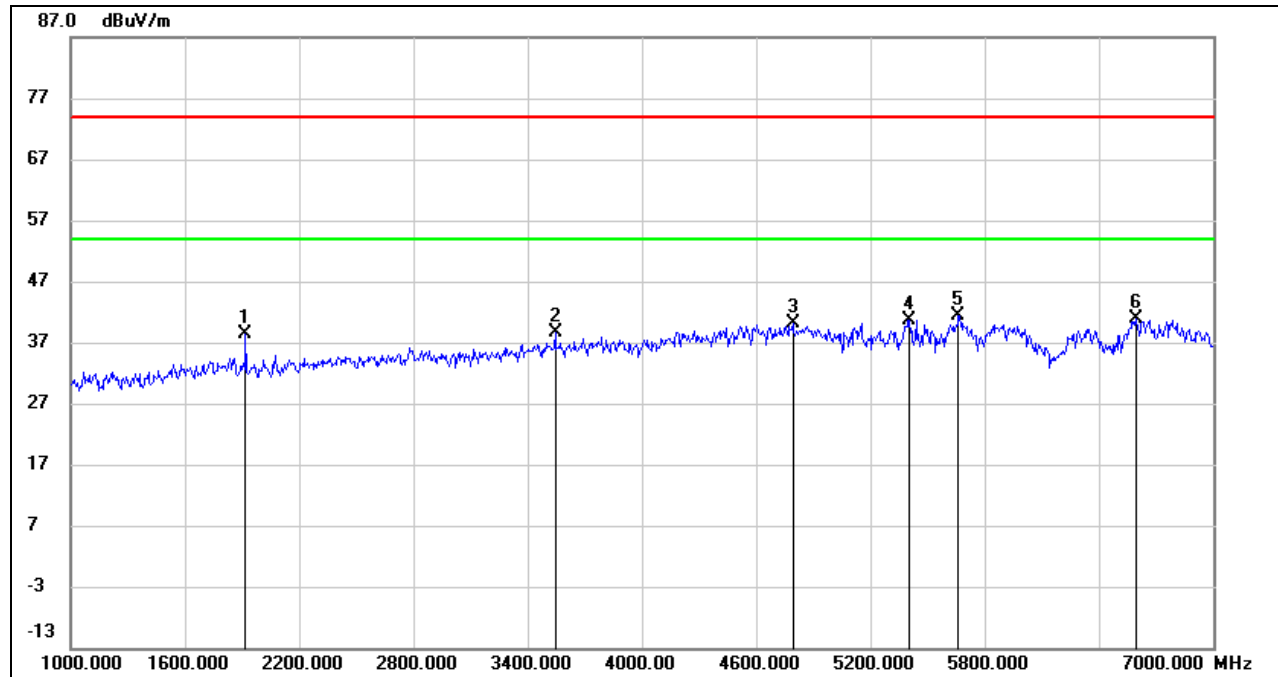
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.39             | -11.02            | 38.37              | 74.00             | -35.63         | peak   |
| 2   | 3544.000           | 44.24             | -5.58             | 38.66              | 74.00             | -35.34         | peak   |
| 3   | 4792.000           | 40.84             | -0.69             | 40.15              | 74.00             | -33.85         | peak   |
| 4   | 5404.000           | 39.82             | 0.82              | 40.64              | 74.00             | -33.36         | peak   |
| 5   | 5662.000           | 39.93             | 1.44              | 41.37              | 74.00             | -32.63         | peak   |
| 6   | 6592.000           | 36.48             | 4.45              | 40.93              | 74.00             | -33.07         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

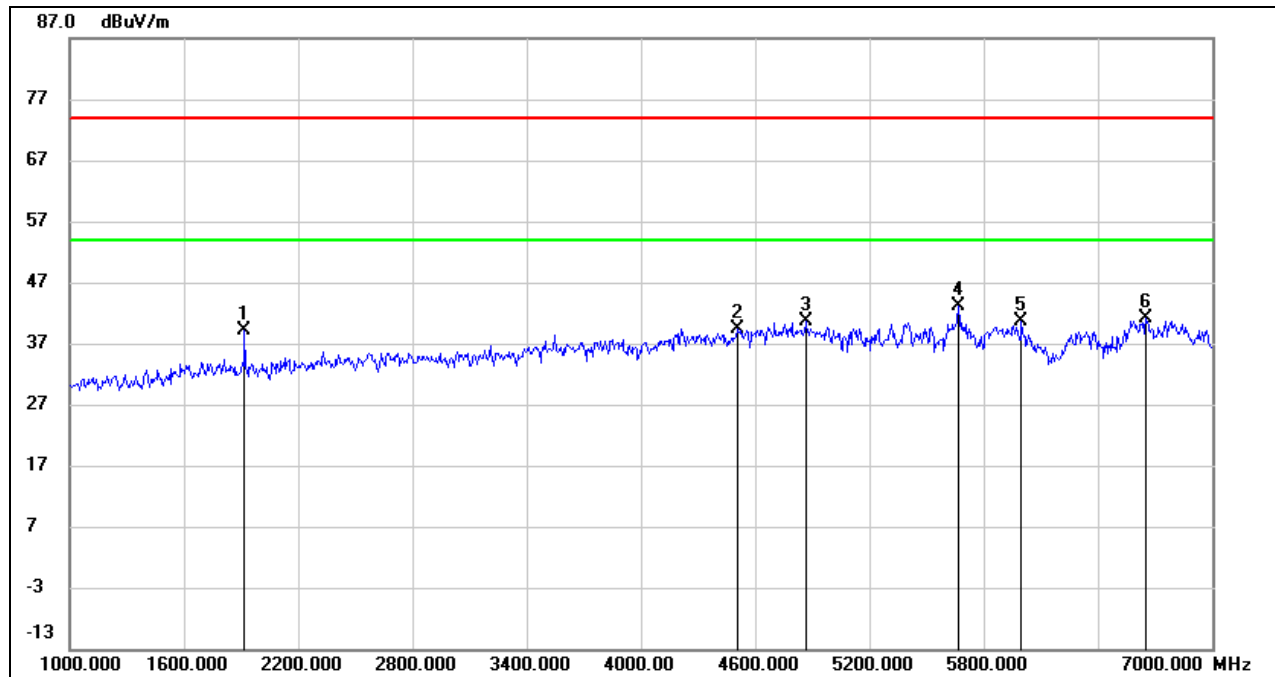
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.08          | -11.02         | 39.06           | 74.00          | -34.94      | peak   |
| 2   | 4510.000        | 41.56          | -2.18          | 39.38           | 74.00          | -34.62      | peak   |
| 3   | 4864.000        | 41.28          | -0.60          | 40.68           | 74.00          | -33.32      | peak   |
| 4   | 5668.000        | 41.76          | 1.44           | 43.20           | 74.00          | -30.80      | peak   |
| 5   | 5998.000        | 38.40          | 2.19           | 40.59           | 74.00          | -33.41      | peak   |
| 6   | 6652.000        | 36.56          | 4.52           | 41.08           | 74.00          | -32.92      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

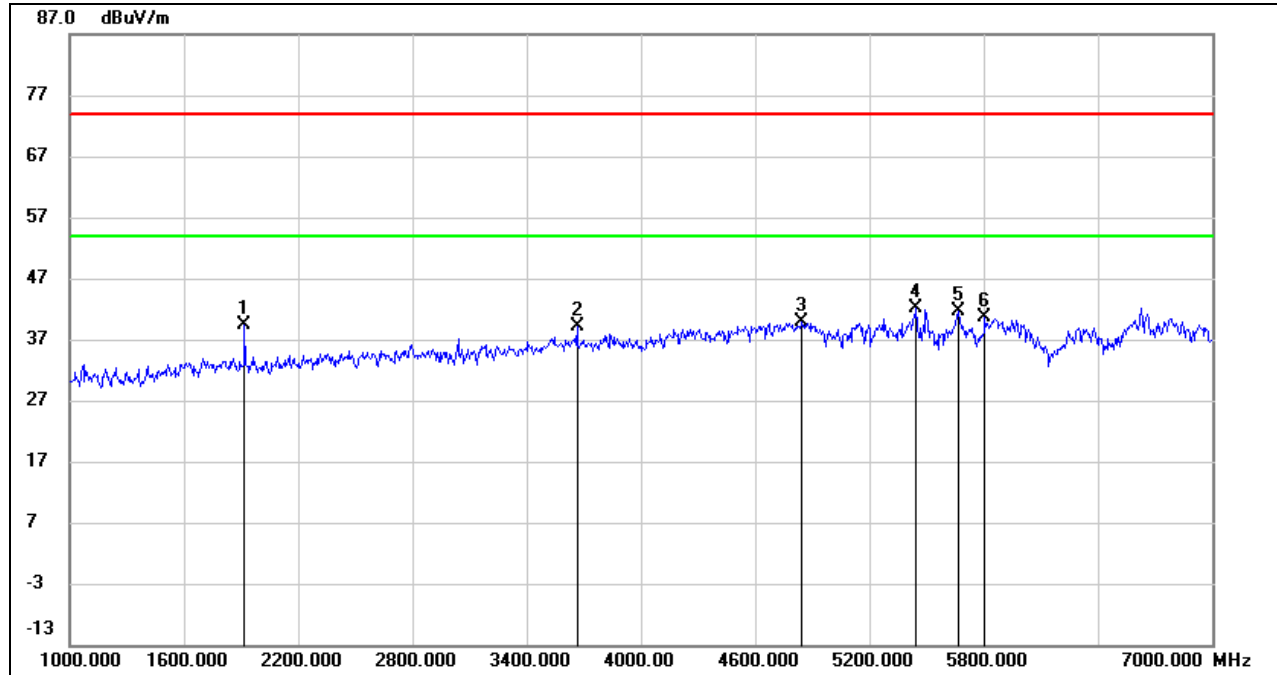
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2C BAND

### MODE TEST RESULTS (WORST CASE)

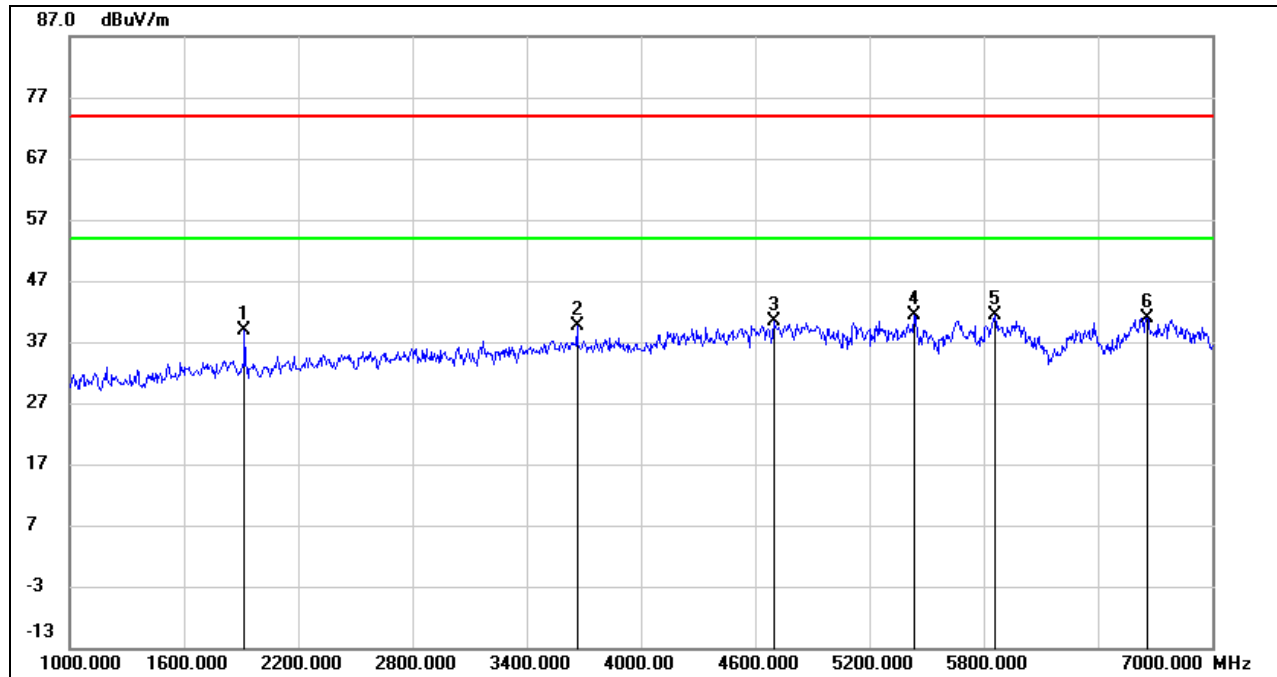
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 50.45             | -11.02            | 39.43              | 74.00             | -34.57         | peak   |
| 2   | 3664.000           | 44.12             | -4.99             | 39.13              | 74.00             | -34.87         | peak   |
| 3   | 4846.000           | 40.59             | -0.62             | 39.97              | 74.00             | -34.03         | peak   |
| 4   | 5446.000           | 41.27             | 0.96              | 42.23              | 74.00             | -31.77         | peak   |
| 5   | 5668.000           | 40.28             | 1.44              | 41.72              | 74.00             | -32.28         | peak   |
| 6   | 5806.000           | 39.21             | 1.47              | 40.68              | 74.00             | -33.32         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



**HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 49.85          | -11.02         | 38.83           | 74.00          | -35.17      | peak   |
| 2   | 3664.000        | 44.71          | -4.99          | 39.72           | 74.00          | -34.28      | peak   |
| 3   | 4702.000        | 41.65          | -1.15          | 40.50           | 74.00          | -33.50      | peak   |
| 4   | 5434.000        | 40.54          | 0.92           | 41.46           | 74.00          | -32.54      | peak   |
| 5   | 5860.000        | 39.61          | 1.68           | 41.29           | 74.00          | -32.71      | peak   |
| 6   | 6658.000        | 36.43          | 4.51           | 40.94           | 74.00          | -33.06      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

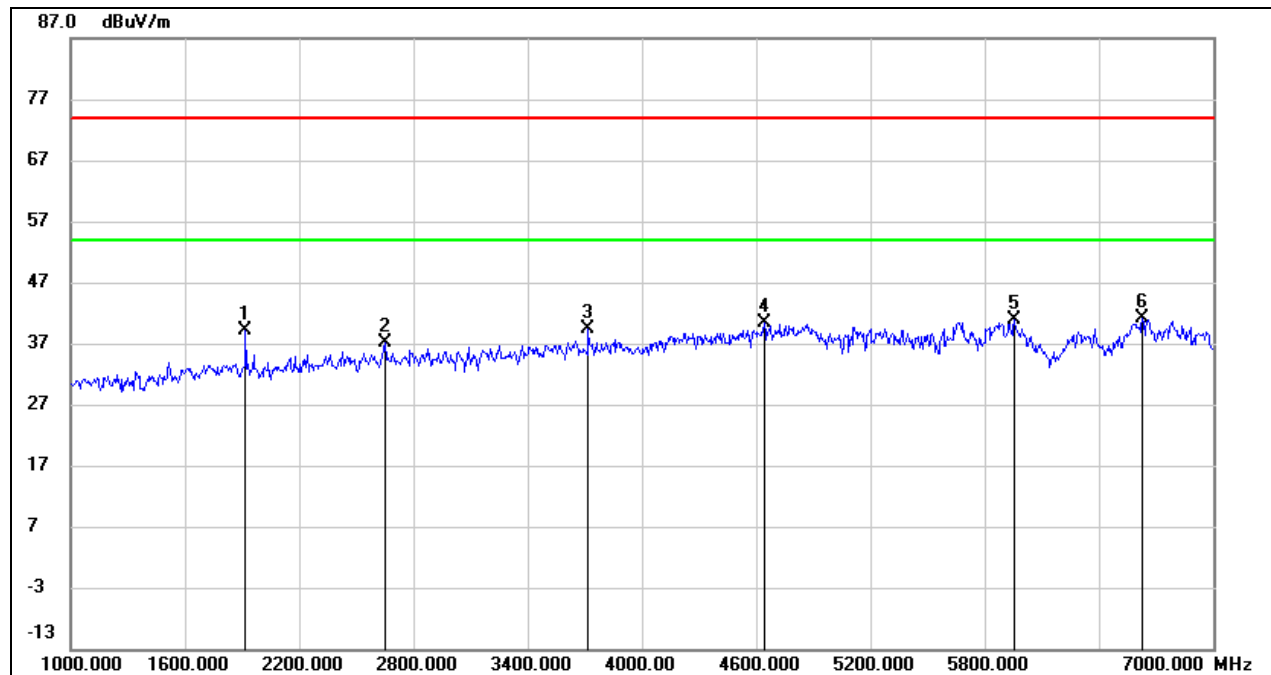
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.20          | -11.02         | 39.18           | 74.00          | -34.82      | peak   |
| 2   | 2650.000        | 45.43          | -8.41          | 37.02           | 74.00          | -36.98      | peak   |
| 3   | 3718.000        | 44.04          | -4.74          | 39.30           | 74.00          | -34.70      | peak   |
| 4   | 4642.000        | 41.84          | -1.44          | 40.40           | 74.00          | -33.60      | peak   |
| 5   | 5956.000        | 38.91          | 2.04           | 40.95           | 74.00          | -33.05      | peak   |
| 6   | 6628.000        | 36.52          | 4.50           | 41.02           | 74.00          | -32.98      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

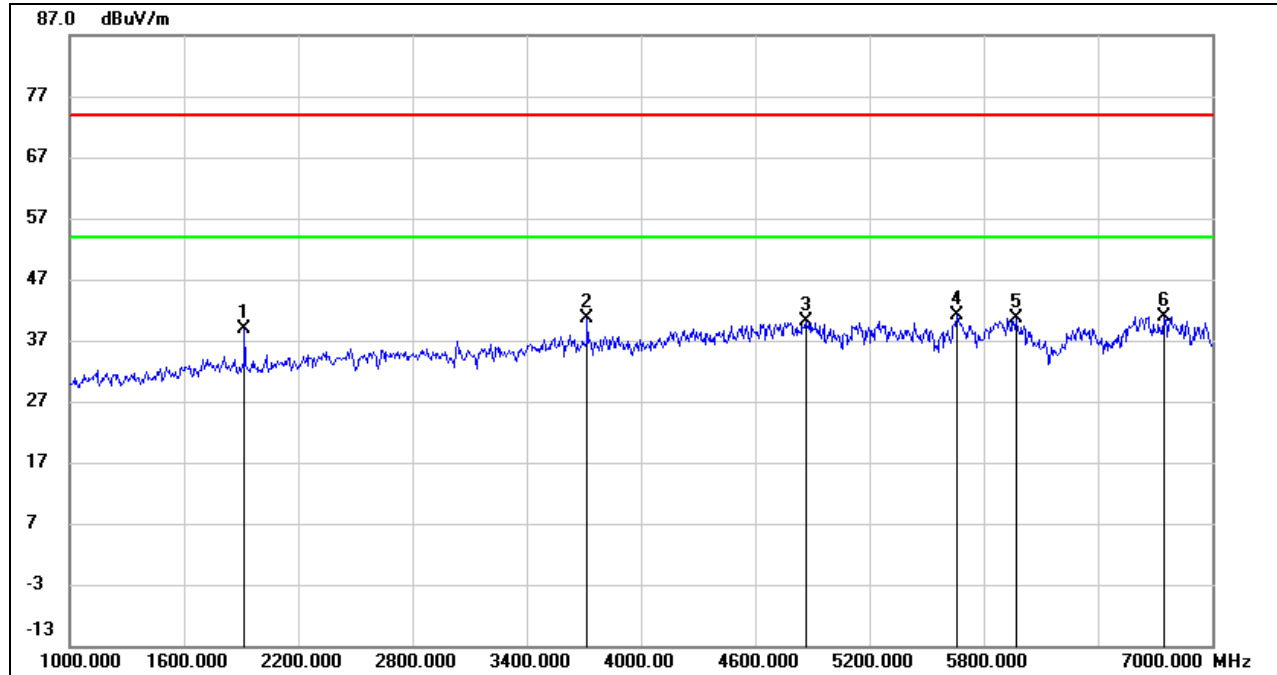
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.95             | -11.02            | 38.93              | 74.00             | -35.07         | peak   |
| 2   | 3718.000           | 45.48             | -4.74             | 40.74              | 74.00             | -33.26         | peak   |
| 3   | 4864.000           | 40.61             | -0.60             | 40.01              | 74.00             | -33.99         | peak   |
| 4   | 5656.000           | 39.63             | 1.44              | 41.07              | 74.00             | -32.93         | peak   |
| 5   | 5968.000           | 38.57             | 2.08              | 40.65              | 74.00             | -33.35         | peak   |
| 6   | 6748.000           | 36.42             | 4.55              | 40.97              | 74.00             | -33.03         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

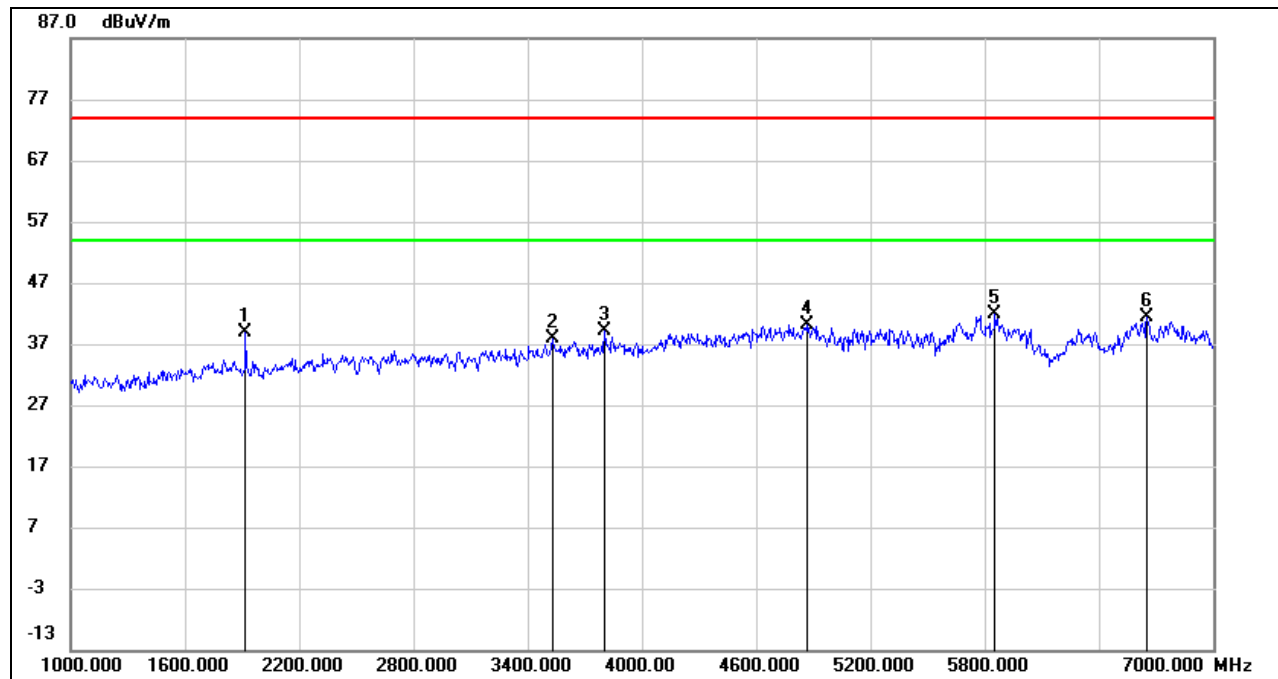
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.82             | -11.02            | 38.80              | 74.00             | -35.20         | peak   |
| 2   | 3532.000           | 43.58             | -5.65             | 37.93              | 74.00             | -36.07         | peak   |
| 3   | 3802.000           | 43.39             | -4.37             | 39.02              | 74.00             | -34.98         | peak   |
| 4   | 4864.000           | 40.76             | -0.60             | 40.16              | 74.00             | -33.84         | peak   |
| 5   | 5854.000           | 40.17             | 1.64              | 41.81              | 74.00             | -32.19         | peak   |
| 6   | 6652.000           | 36.74             | 4.52              | 41.26              | 74.00             | -32.74         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

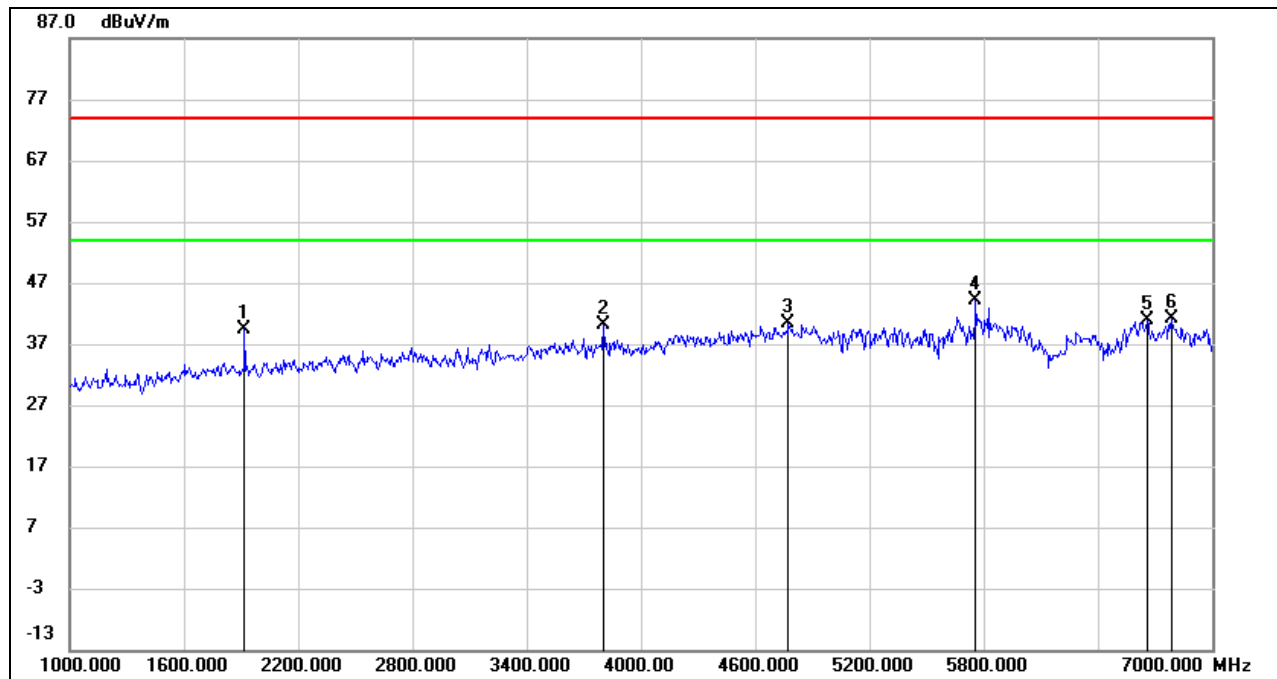
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.32          | -11.02         | 39.30           | 74.00          | -34.70      | peak   |
| 2   | 3802.000        | 44.43          | -4.37          | 40.06           | 74.00          | -33.94      | peak   |
| 3   | 4774.000        | 41.08          | -0.79          | 40.29           | 74.00          | -33.71      | peak   |
| 4   | 5758.000        | 42.62          | 1.45           | 44.07           | 74.00          | -29.93      | peak   |
| 5   | 6658.000        | 36.28          | 4.51           | 40.79           | 74.00          | -33.21      | peak   |
| 6   | 6784.000        | 36.61          | 4.56           | 41.17           | 74.00          | -32.83      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

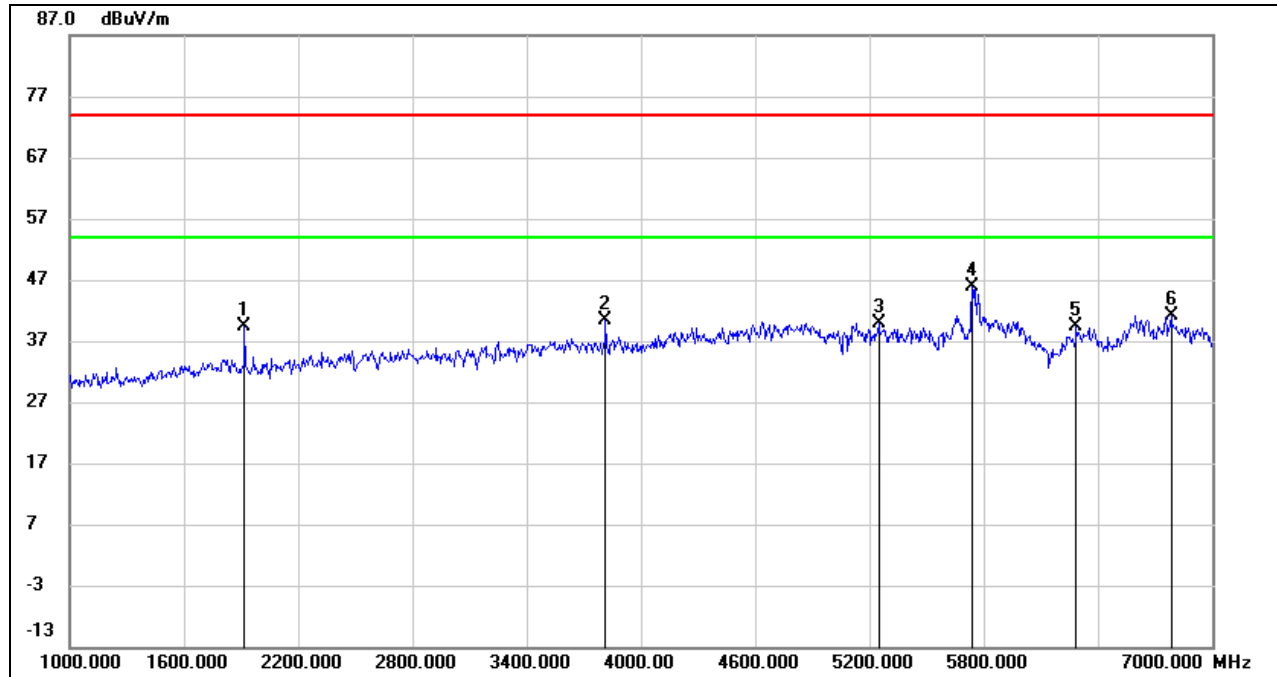
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

# STRADDLE CHANNEL 144

## MODE TEST RESULTS (WORST CASE)

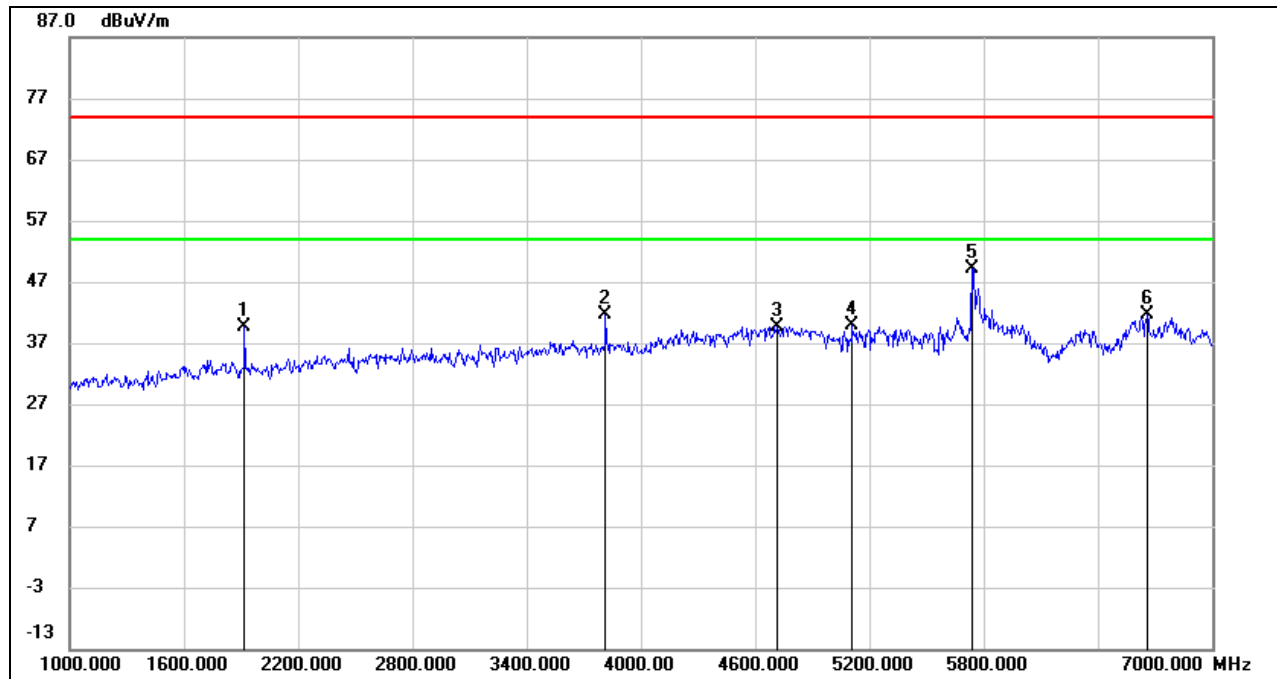
### HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.35          | -11.02         | 39.33           | 74.00          | -34.67      | peak   |
| 2   | 3814.000        | 44.86          | -4.38          | 40.48           | 74.00          | -33.52      | peak   |
| 3   | 5248.000        | 39.11          | 0.85           | 39.96           | 74.00          | -34.04      | peak   |
| 4   | 5740.000        | 44.44          | 1.44           | 45.88           | 74.00          | -28.12      | peak   |
| 5   | 6286.000        | 36.57          | 2.69           | 39.26           | 74.00          | -34.74      | peak   |
| 6   | 6784.000        | 36.63          | 4.56           | 41.19           | 74.00          | -32.81      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.65          | -11.02         | 39.63           | 74.00          | -34.37      | peak   |
| 2   | 3814.000        | 46.03          | -4.38          | 41.65           | 74.00          | -32.35      | peak   |
| 3   | 4714.000        | 40.79          | -1.08          | 39.71           | 74.00          | -34.29      | peak   |
| 4   | 5110.000        | 39.65          | 0.24           | 39.89           | 74.00          | -34.11      | peak   |
| 5   | 5740.000        | 47.78          | 1.44           | 49.22           | 74.00          | -24.78      | peak   |
| 6   | 6658.000        | 37.11          | 4.51           | 41.62           | 74.00          | -32.38      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

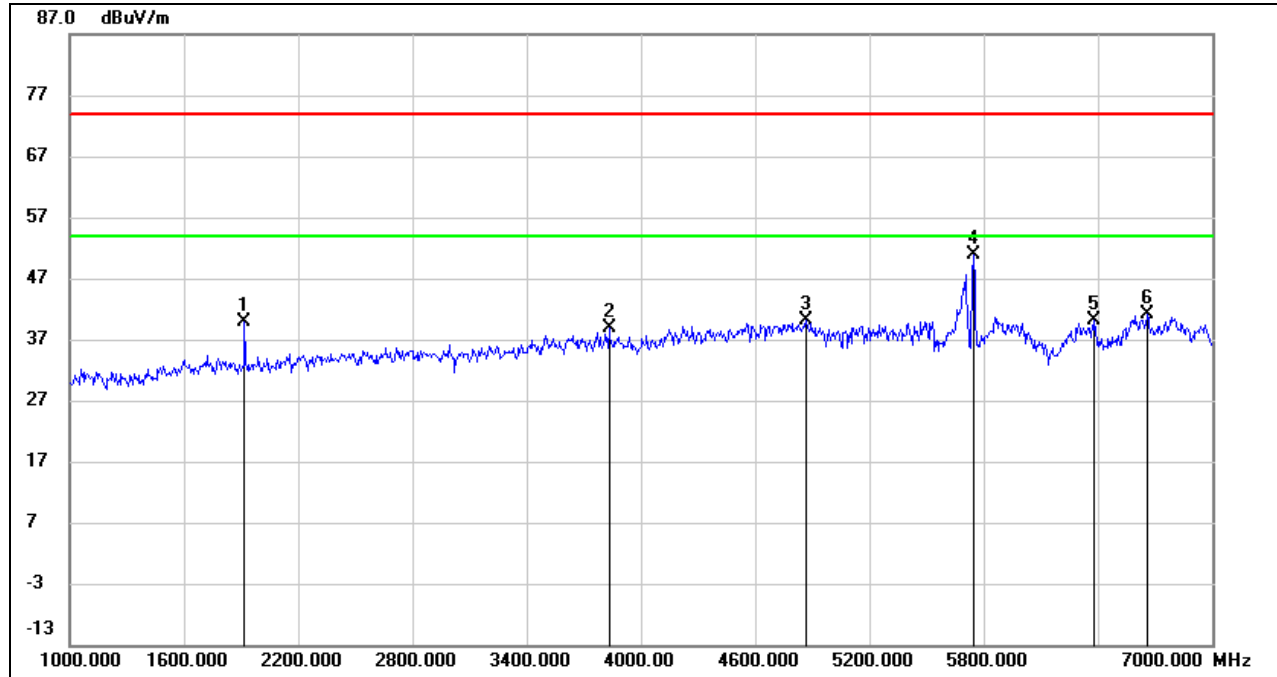
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

# UNII-3 BAND

## MODE TEST RESULTS (WORST CASE)

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

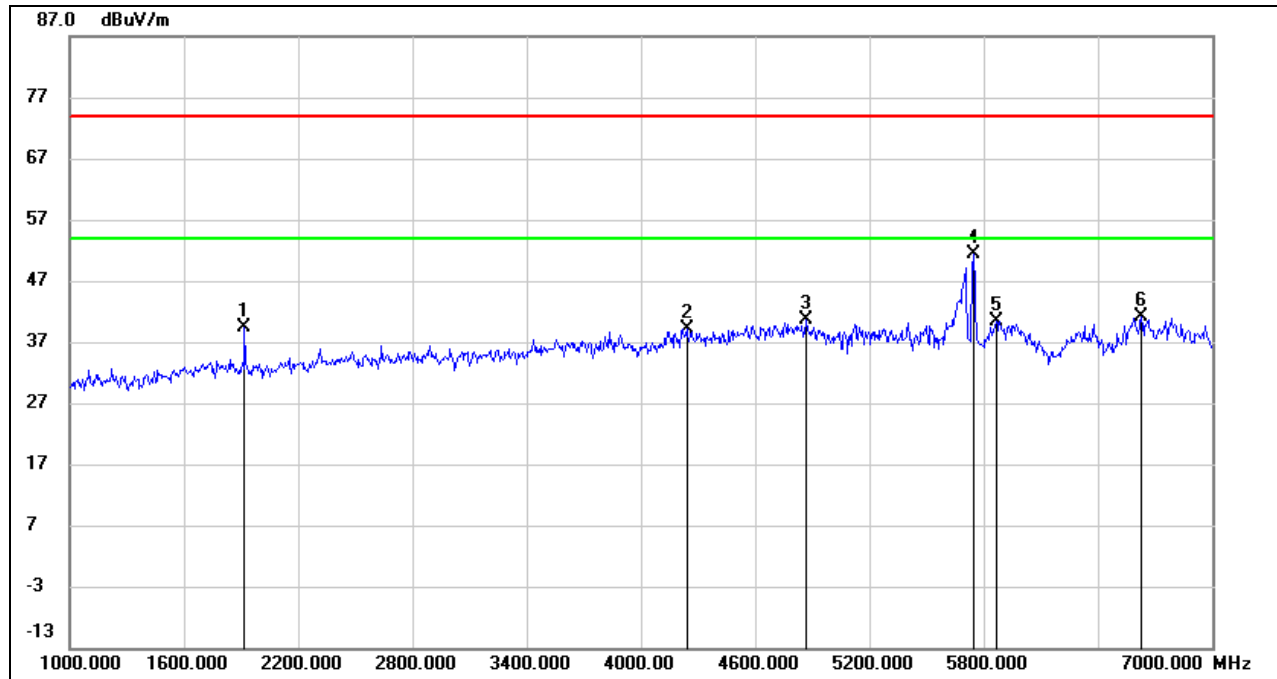


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 50.96          | -11.02         | 39.94           | 74.00          | -34.06      | peak   |
| 2   | 3832.000        | 43.18          | -4.42          | 38.76           | 74.00          | -35.24      | peak   |
| 3   | 4864.000        | 40.77          | -0.60          | 40.17           | 74.00          | -33.83      | peak   |
| 4   | 5746.000        | 49.55          | 1.45           | 51.00           | 74.00          | -23.00      | peak   |
| 5   | 6382.000        | 36.79          | 3.25           | 40.04           | 74.00          | -33.96      | peak   |
| 6   | 6658.000        | 36.51          | 4.51           | 41.02           | 74.00          | -32.98      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 50.30             | -11.02            | 39.28              | 74.00             | -34.72         | peak   |
| 2   | 4240.000           | 41.82             | -2.76             | 39.06              | 74.00             | -34.94         | peak   |
| 3   | 4870.000           | 41.14             | -0.60             | 40.54              | 74.00             | -33.46         | peak   |
| 4   | 5746.000           | 49.85             | 1.45              | 51.30              | 74.00             | -22.70         | peak   |
| 5   | 5866.000           | 38.70             | 1.70              | 40.40              | 74.00             | -33.60         | peak   |
| 6   | 6628.000           | 36.61             | 4.50              | 41.11              | 74.00             | -32.89         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

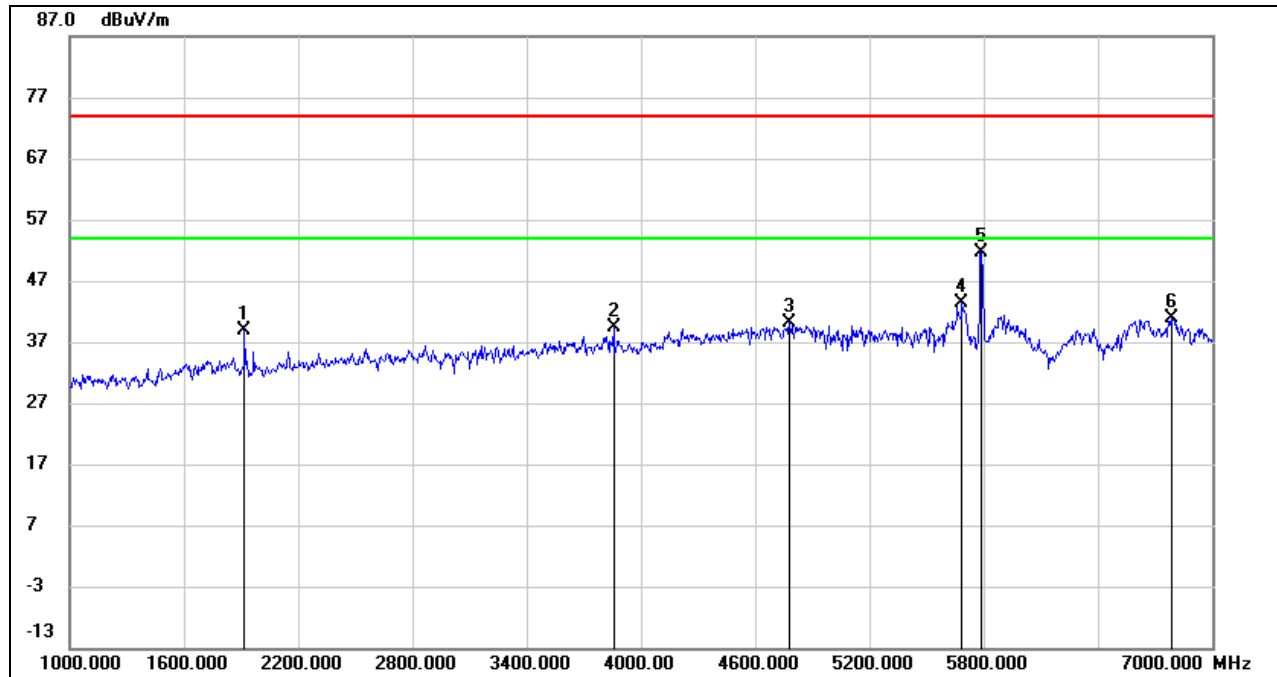
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)**

| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1918.000        | 49.87          | -11.02         | 38.85           | 74.00          | -35.15      | peak   |
| 2   | 3856.000        | 43.73          | -4.46          | 39.27           | 74.00          | -34.73      | peak   |
| 3   | 4780.000        | 40.81          | -0.75          | 40.06           | 74.00          | -33.94      | peak   |
| 4   | 5686.000        | 41.85          | 1.44           | 43.29           | 74.00          | -30.71      | peak   |
| 5   | 5788.000        | 50.29          | 1.44           | 51.73           | 74.00          | -22.27      | peak   |
| 6   | 6784.000        | 36.29          | 4.56           | 40.85           | 74.00          | -33.15      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

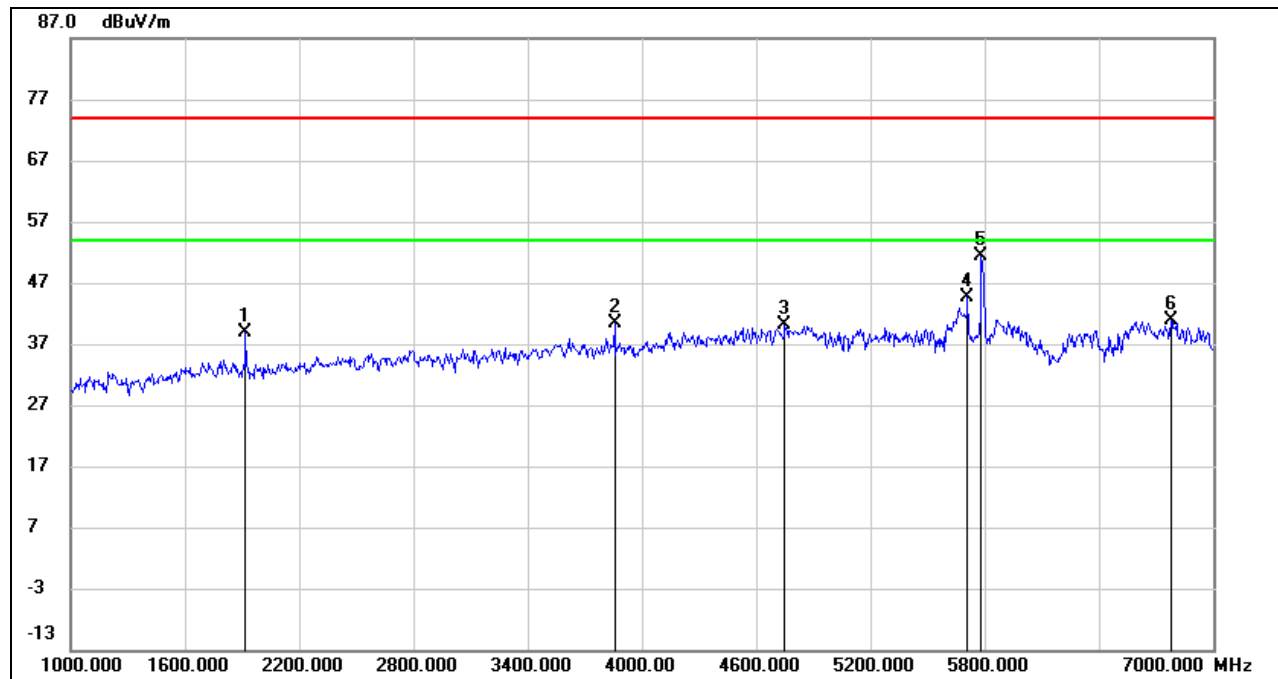
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.94             | -11.02            | 38.92              | 74.00             | -35.08         | peak   |
| 2   | 3856.000           | 44.89             | -4.46             | 40.43              | 74.00             | -33.57         | peak   |
| 3   | 4750.000           | 41.09             | -0.90             | 40.19              | 74.00             | -33.81         | peak   |
| 4   | 5710.000           | 43.08             | 1.44              | 44.52              | 74.00             | -29.48         | peak   |
| 5   | 5782.000           | 49.82             | 1.44              | 51.26              | 74.00             | -22.74         | peak   |
| 6   | 6778.000           | 36.21             | 4.56              | 40.77              | 74.00             | -33.23         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

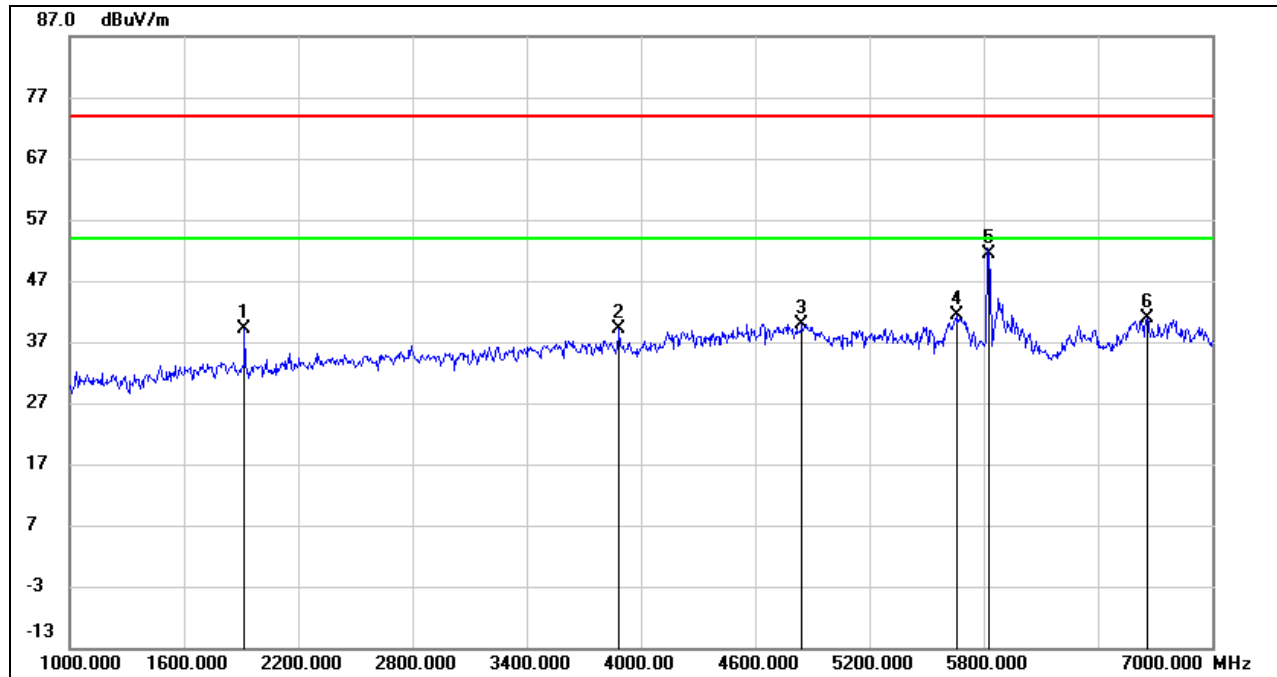
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

**HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)**

| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 50.03             | -11.02            | 39.01              | 74.00             | -34.99         | peak   |
| 2   | 3886.000           | 43.66             | -4.51             | 39.15              | 74.00             | -34.85         | peak   |
| 3   | 4846.000           | 40.49             | -0.62             | 39.87              | 74.00             | -34.13         | peak   |
| 4   | 5662.000           | 40.05             | 1.44              | 41.49              | 74.00             | -32.51         | peak   |
| 5   | 5825.000           | 49.84             | 1.55              | 51.39              | 74.00             | -22.61         | peak   |
| 6   | 6658.000           | 36.38             | 4.51              | 40.89              | 74.00             | -33.11         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

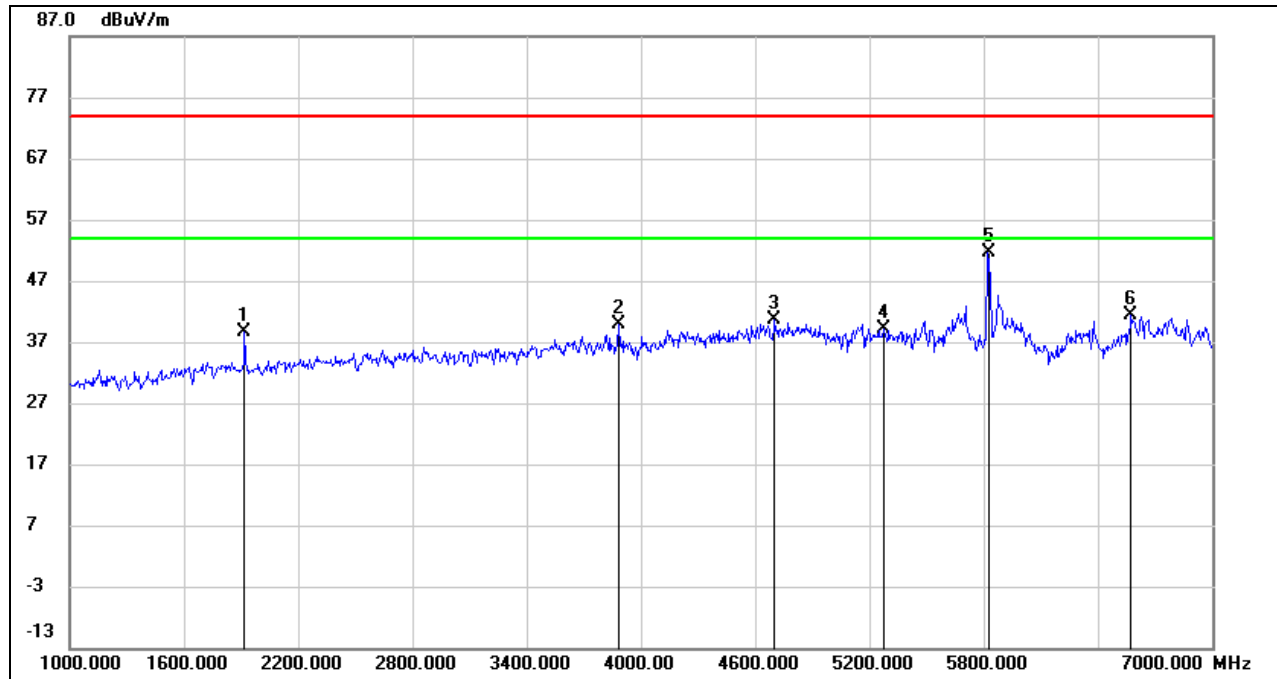
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 1918.000           | 49.69             | -11.02            | 38.67              | 74.00             | -35.33         | peak   |
| 2   | 3886.000           | 44.29             | -4.51             | 39.78              | 74.00             | -34.22         | peak   |
| 3   | 4702.000           | 41.74             | -1.15             | 40.59              | 74.00             | -33.41         | peak   |
| 4   | 5272.000           | 38.38             | 0.83              | 39.21              | 74.00             | -34.79         | peak   |
| 5   | 5825.000           | 49.99             | 1.55              | 51.54              | 74.00             | -22.46         | peak   |
| 6   | 6574.000           | 36.98             | 4.34              | 41.32              | 74.00             | -32.68         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for Band reject filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

Note: All the modes, bands and antennas had been tested, but only the worst data was recorded in the report.

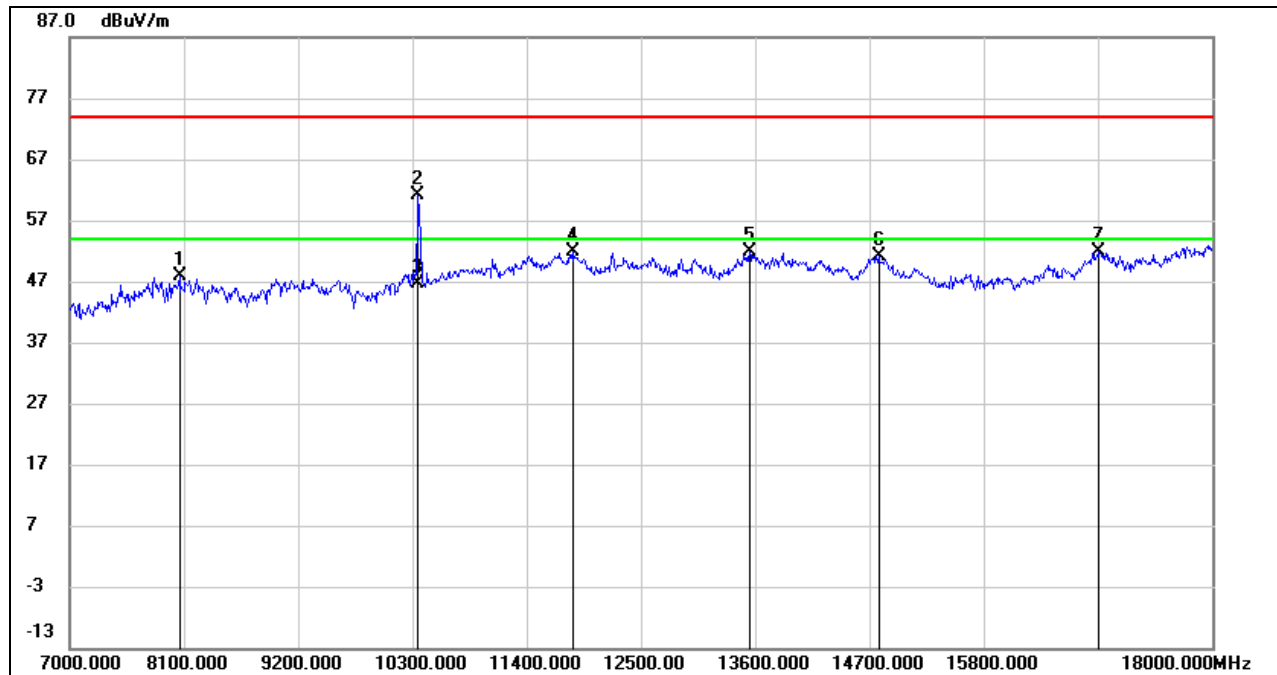
### 8.3. SPURIOUS EMISSIONS (7 GHz ~ 18 GHz)

#### 8.3.1. 802.11a SISO MODE

##### UNII-1 BAND

##### ANTENNA 1 TEST RESULTS (WORST CASE)

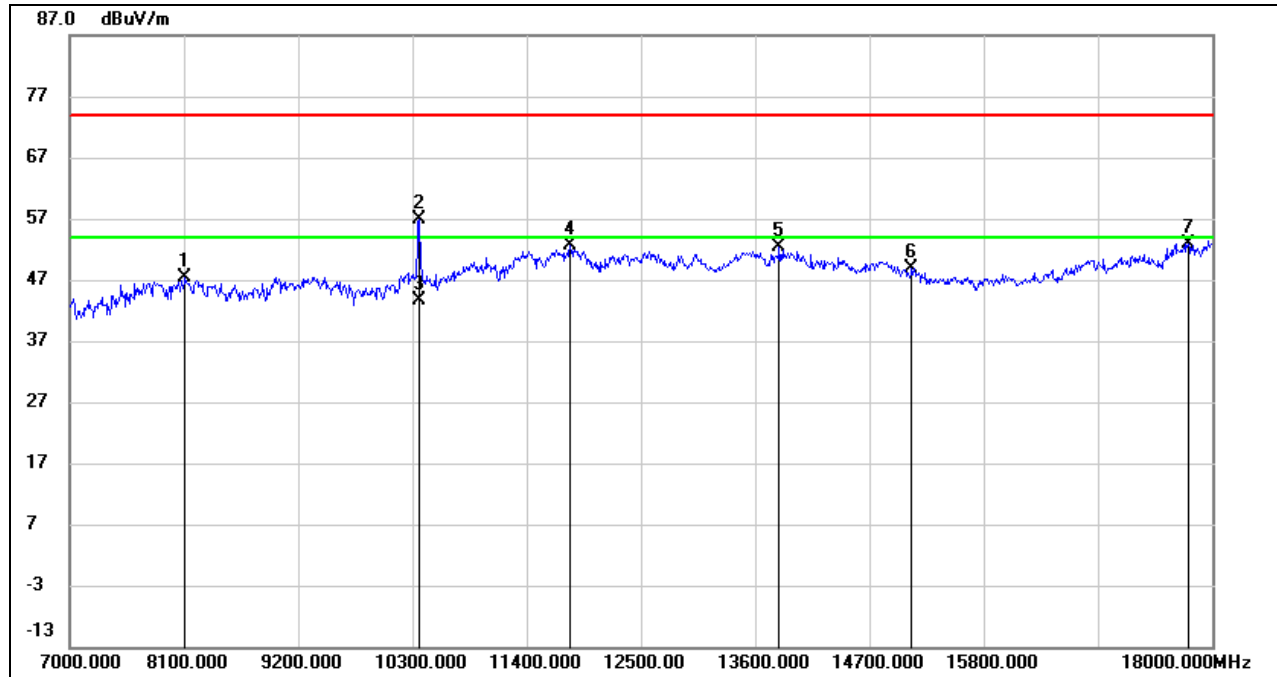
##### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8056.000        | 39.00          | 8.89           | 47.89           | 74.00          | -26.11      | peak   |
| 2   | 10355.000       | 48.46          | 12.57          | 61.03           | 74.00          | -12.97      | peak   |
| 3   | 10355.000       | 33.94          | 12.57          | 46.51           | 54.00          | -7.49       | AVG    |
| 4   | 11851.000       | 34.84          | 17.11          | 51.95           | 74.00          | -22.05      | peak   |
| 5   | 13545.000       | 32.76          | 19.13          | 51.89           | 74.00          | -22.11      | peak   |
| 6   | 14788.000       | 33.53          | 17.55          | 51.08           | 74.00          | -22.92      | peak   |
| 7   | 16900.000       | 32.16          | 19.73          | 51.89           | 74.00          | -22.11      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

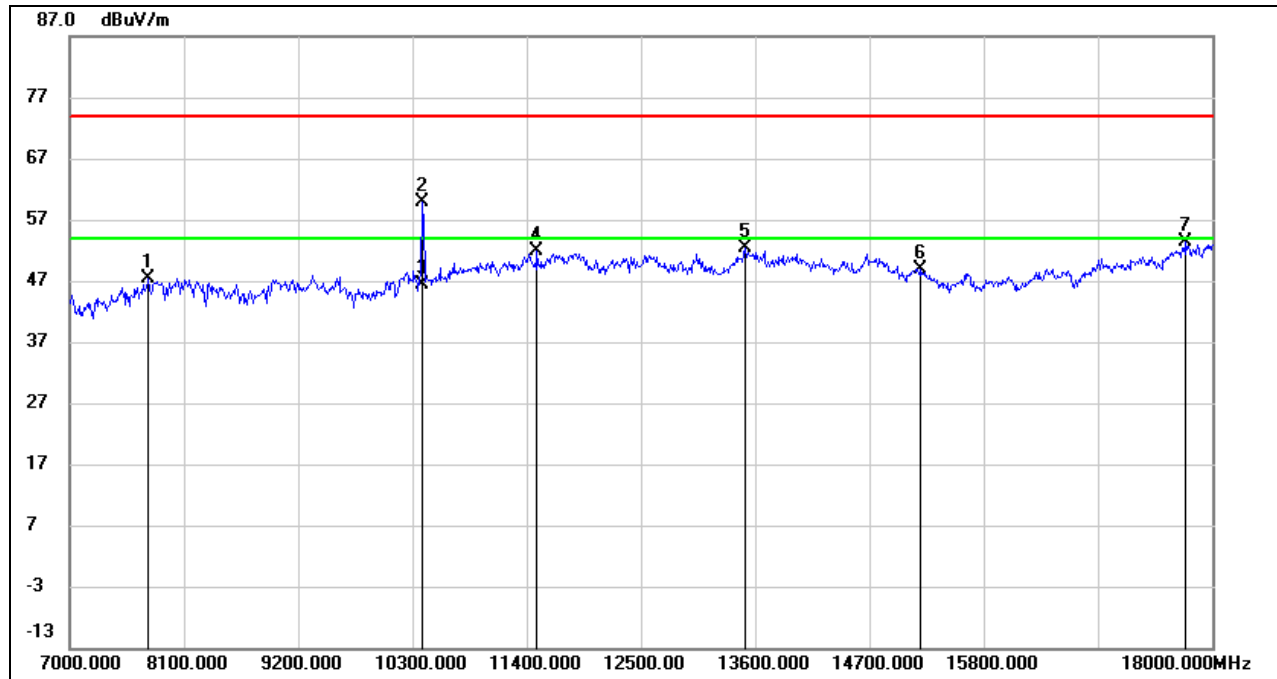
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8111.000        | 37.76          | 9.52           | 47.28           | 74.00          | -26.72      | peak   |
| 2   | 10366.000       | 44.34          | 12.61          | 56.95           | 74.00          | -17.05      | peak   |
| 3   | 10366.000       | 30.96          | 12.61          | 43.57           | 54.00          | -10.43      | AVG    |
| 4   | 11818.000       | 35.70          | 17.02          | 52.72           | 74.00          | -21.28      | peak   |
| 5   | 13831.000       | 32.91          | 19.39          | 52.30           | 74.00          | -21.70      | peak   |
| 6   | 15107.000       | 32.84          | 16.13          | 48.97           | 74.00          | -25.03      | peak   |
| 7   | 17769.000       | 29.01          | 23.92          | 52.93           | 74.00          | -21.07      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)

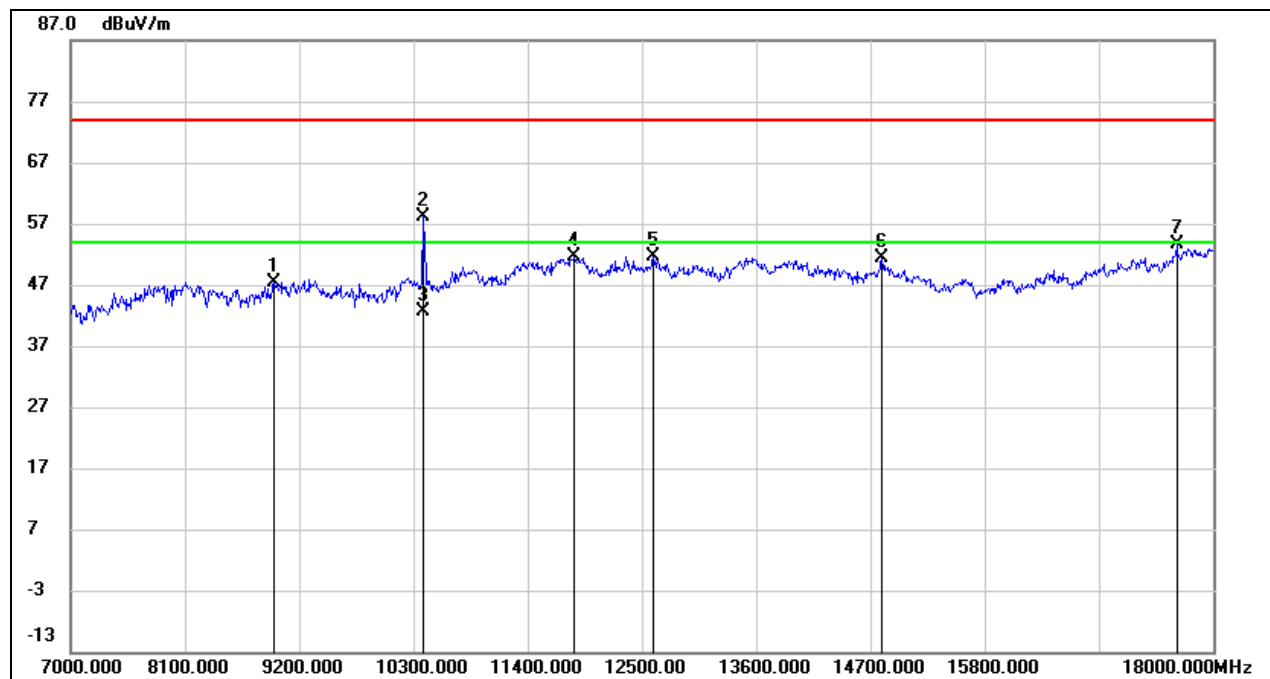


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7759.000        | 39.09          | 8.34           | 47.43           | 74.00          | -26.57      | peak   |
| 2   | 10388.000       | 47.16          | 12.70          | 59.86           | 74.00          | -14.14      | peak   |
| 3   | 10388.000       | 33.63          | 12.70          | 46.33           | 54.00          | -7.67       | AVG    |
| 4   | 11499.000       | 35.53          | 16.45          | 51.98           | 74.00          | -22.02      | peak   |
| 5   | 13501.000       | 33.26          | 19.22          | 52.48           | 74.00          | -21.52      | peak   |
| 6   | 15195.000       | 33.47          | 15.51          | 48.98           | 74.00          | -25.02      | peak   |
| 7   | 17747.000       | 29.74          | 23.74          | 53.48           | 74.00          | -20.52      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8958.000        | 37.48          | 9.96           | 47.44           | 74.00          | -26.56      | peak   |
| 2   | 10388.000       | 45.40          | 12.70          | 58.10           | 74.00          | -15.90      | peak   |
| 3   | 10388.000       | 29.87          | 12.70          | 42.57           | 54.00          | -11.43      | AVG    |
| 4   | 11851.000       | 34.58          | 17.11          | 51.69           | 74.00          | -22.31      | peak   |
| 5   | 12610.000       | 34.44          | 17.10          | 51.54           | 74.00          | -22.46      | peak   |
| 6   | 14810.000       | 34.03          | 17.46          | 51.49           | 74.00          | -22.51      | peak   |
| 7   | 17648.000       | 30.80          | 22.80          | 53.60           | 74.00          | -20.40      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

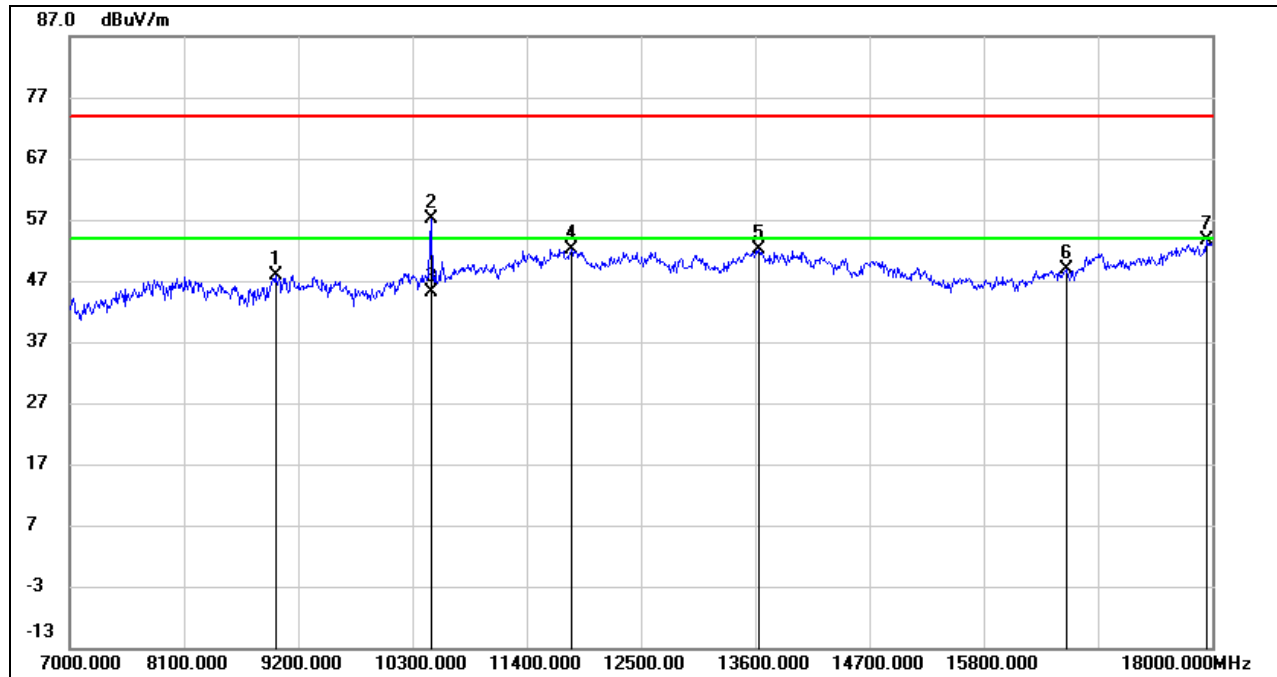
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

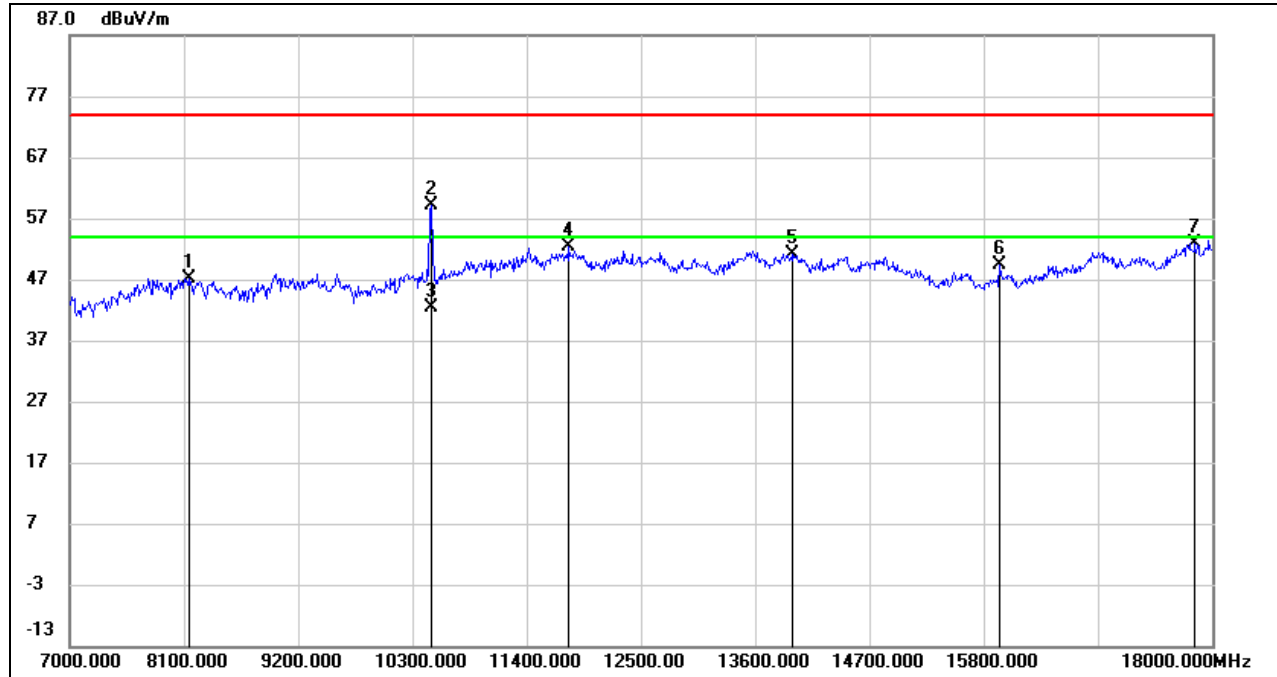
### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8980.000        | 37.43          | 10.39          | 47.82           | 74.00          | -26.18      | peak   |
| 2   | 10476.000       | 44.39          | 12.84          | 57.23           | 74.00          | -16.77      | peak   |
| 3   | 10476.000       | 32.37          | 12.84          | 45.21           | 54.00          | -8.79       | AVG    |
| 4   | 11829.000       | 35.19          | 17.05          | 52.24           | 74.00          | -21.76      | peak   |
| 5   | 13633.000       | 32.84          | 19.19          | 52.03           | 74.00          | -21.97      | peak   |
| 6   | 16603.000       | 31.12          | 17.75          | 48.87           | 74.00          | -25.13      | peak   |
| 7   | 17945.000       | 28.99          | 24.61          | 53.60           | 74.00          | -20.40      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



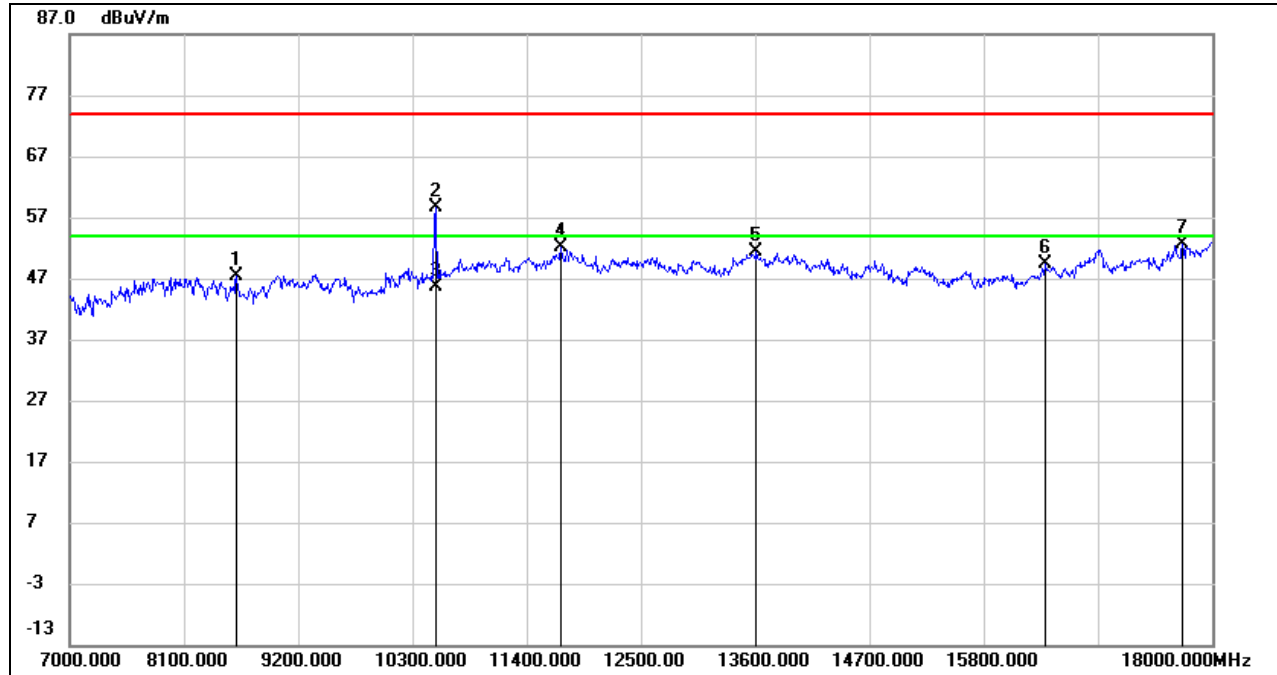
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8144.000        | 37.83          | 9.39           | 47.22           | 74.00          | -26.78      | peak   |
| 2   | 10476.000       | 46.23          | 12.84          | 59.07           | 74.00          | -14.93      | peak   |
| 3   | 10476.000       | 29.66          | 12.84          | 42.50           | 54.00          | -11.50      | AVG    |
| 4   | 11807.000       | 35.39          | 17.01          | 52.40           | 74.00          | -21.60      | peak   |
| 5   | 13952.000       | 31.85          | 19.33          | 51.18           | 74.00          | -22.82      | peak   |
| 6   | 15954.000       | 33.70          | 15.63          | 49.33           | 74.00          | -24.67      | peak   |
| 7   | 17835.000       | 28.69          | 24.23          | 52.92           | 74.00          | -21.08      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2A BAND

### ANTENNA 1 TEST RESULTS (WORST CASE)

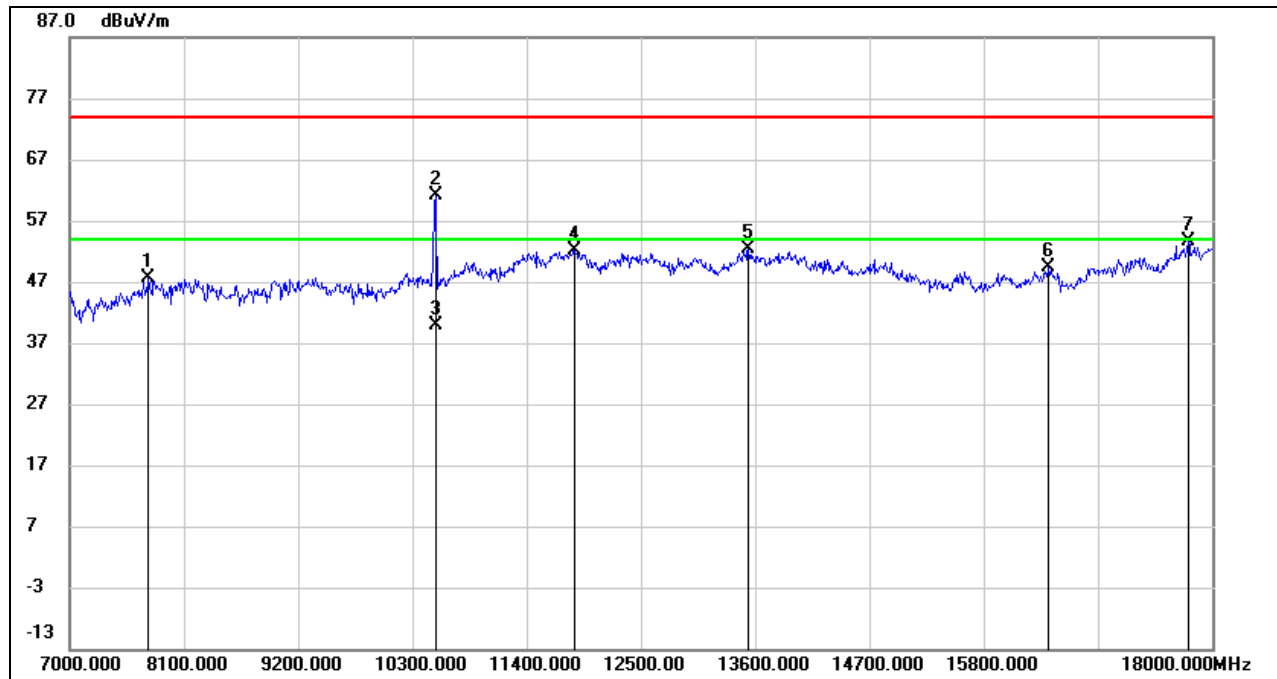
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8606.000        | 38.85          | 8.51           | 47.36           | 74.00          | -26.64      | peak   |
| 2   | 10520.000       | 45.74          | 12.95          | 58.69           | 74.00          | -15.31      | peak   |
| 3   | 10520.000       | 32.66          | 12.95          | 45.61           | 54.00          | -8.39       | AVG    |
| 4   | 11730.000       | 35.11          | 17.07          | 52.18           | 74.00          | -21.82      | peak   |
| 5   | 13611.000       | 32.35          | 19.09          | 51.44           | 74.00          | -22.56      | peak   |
| 6   | 16394.000       | 32.14          | 17.21          | 49.35           | 74.00          | -24.65      | peak   |
| 7   | 17714.000       | 29.25          | 23.45          | 52.70           | 74.00          | -21.30      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7759.000        | 39.27          | 8.34           | 47.61           | 74.00          | -26.39      | peak   |
| 2   | 10520.000       | 48.28          | 12.95          | 61.23           | 74.00          | -12.77      | peak   |
| 3   | 10520.000       | 27.03          | 12.95          | 39.98           | 54.00          | -14.02      | AVG    |
| 4   | 11862.000       | 34.98          | 17.14          | 52.12           | 74.00          | -21.88      | peak   |
| 5   | 13534.000       | 33.20          | 19.16          | 52.36           | 74.00          | -21.64      | peak   |
| 6   | 16427.000       | 32.24          | 17.24          | 49.48           | 74.00          | -24.52      | peak   |
| 7   | 17769.000       | 29.63          | 23.92          | 53.55           | 74.00          | -20.45      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

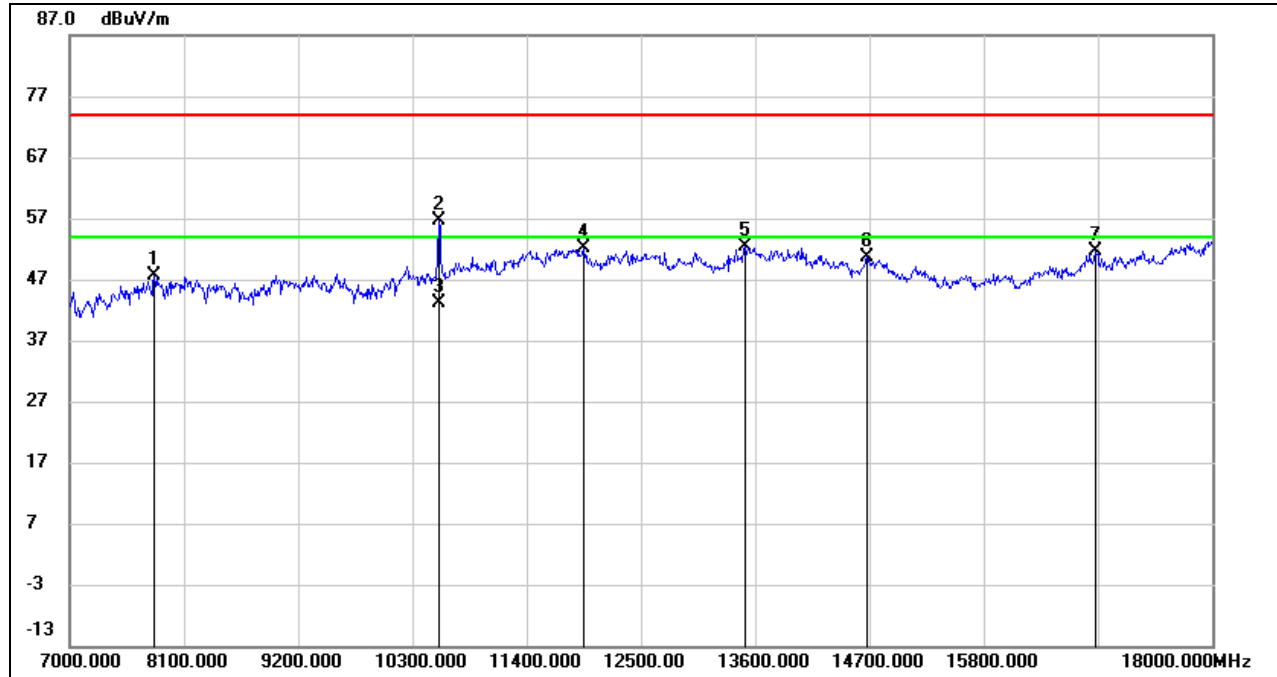
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7814.000        | 38.99          | 8.64           | 47.63           | 74.00          | -26.37      | peak   |
| 2   | 10553.000       | 43.59          | 13.07          | 56.66           | 74.00          | -17.34      | peak   |
| 3   | 10553.000       | 30.04          | 13.07          | 43.11           | 54.00          | -10.89      | AVG    |
| 4   | 11950.000       | 34.77          | 17.26          | 52.03           | 74.00          | -21.97      | peak   |
| 5   | 13501.000       | 33.06          | 19.22          | 52.28           | 74.00          | -21.72      | peak   |
| 6   | 14678.000       | 33.29          | 17.46          | 50.75           | 74.00          | -23.25      | peak   |
| 7   | 16878.000       | 32.07          | 19.51          | 51.58           | 74.00          | -22.42      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

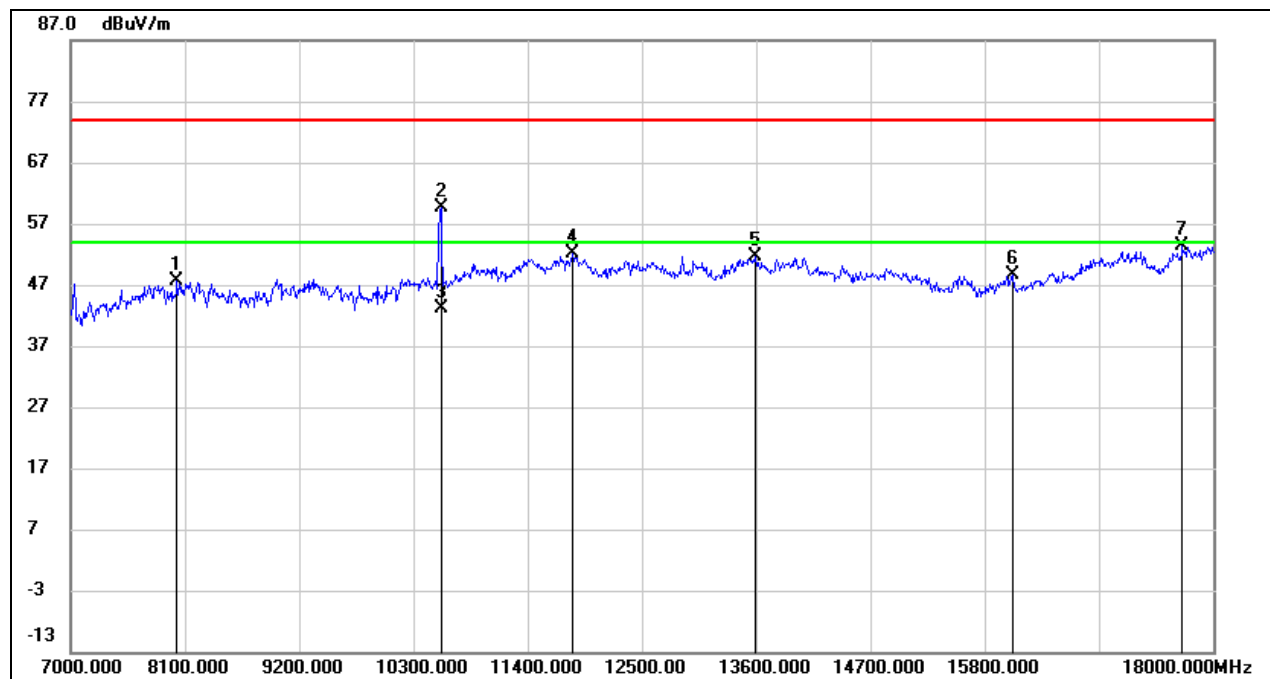
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8023.000        | 39.20          | 8.38           | 47.58           | 74.00          | -26.42      | peak   |
| 2   | 10564.000       | 46.53          | 13.12          | 59.65           | 74.00          | -14.35      | peak   |
| 3   | 10564.000       | 30.10          | 13.12          | 43.22           | 54.00          | -10.78      | AVG    |
| 4   | 11829.000       | 35.13          | 17.05          | 52.18           | 74.00          | -21.82      | peak   |
| 5   | 13589.000       | 32.58          | 19.05          | 51.63           | 74.00          | -22.37      | peak   |
| 6   | 16064.000       | 32.89          | 15.73          | 48.62           | 74.00          | -25.38      | peak   |
| 7   | 17703.000       | 30.03          | 23.36          | 53.39           | 74.00          | -20.61      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

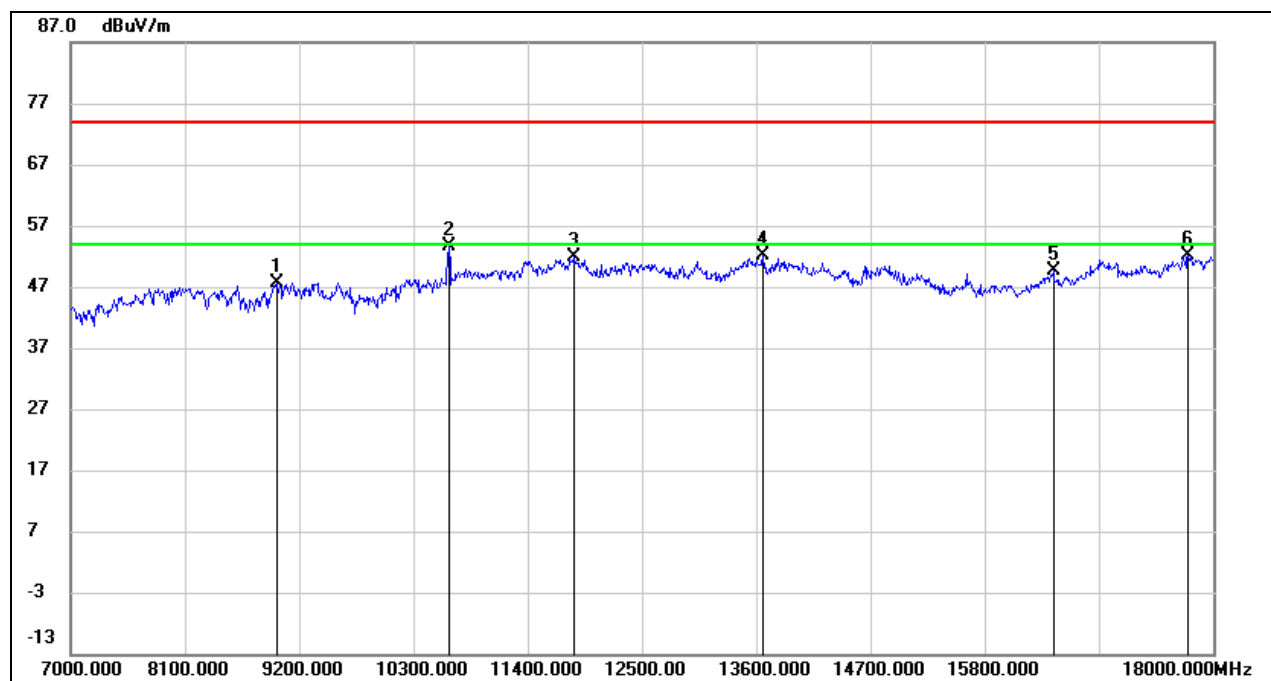
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

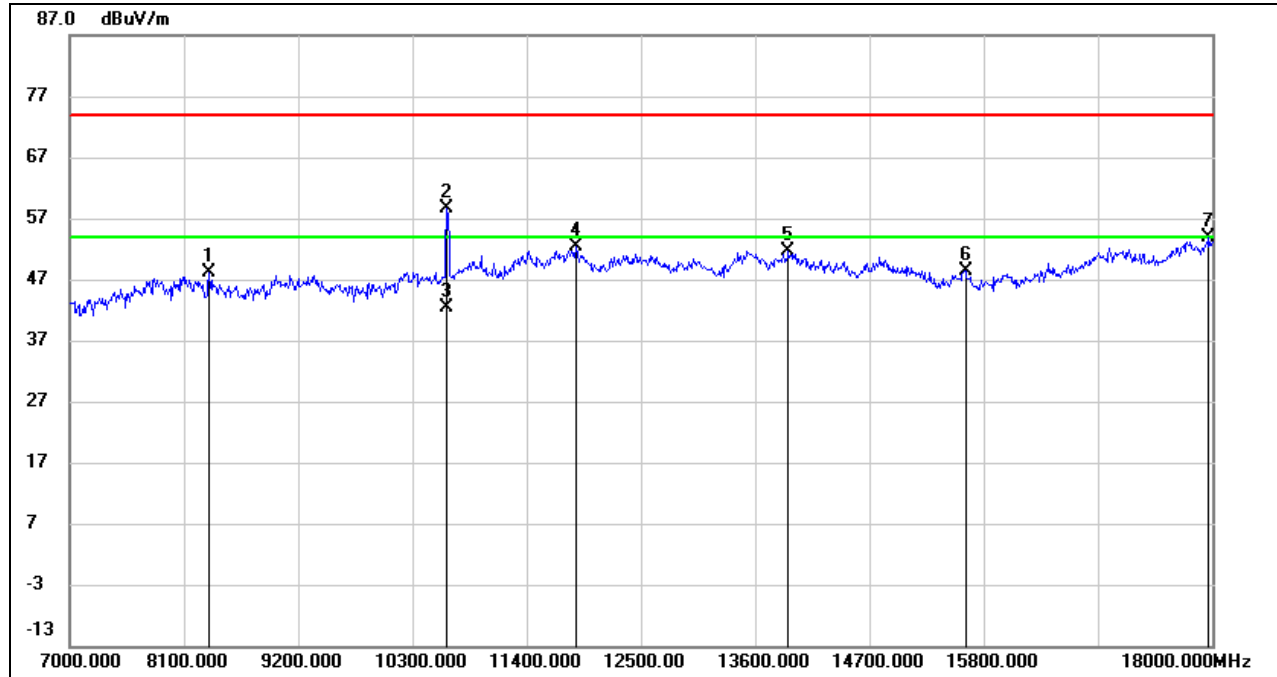


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8991.000        | 37.11          | 10.60          | 47.71           | 74.00          | -26.29      | peak   |
| 2   | 10641.000       | 40.24          | 13.39          | 53.63           | 74.00          | -20.37      | peak   |
| 3   | 11851.000       | 34.72          | 17.11          | 51.83           | 74.00          | -22.17      | peak   |
| 4   | 13666.000       | 32.83          | 19.33          | 52.16           | 74.00          | -21.84      | peak   |
| 5   | 16460.000       | 32.34          | 17.26          | 49.60           | 74.00          | -24.40      | peak   |
| 6   | 17758.000       | 28.36          | 23.83          | 52.19           | 74.00          | -21.81      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



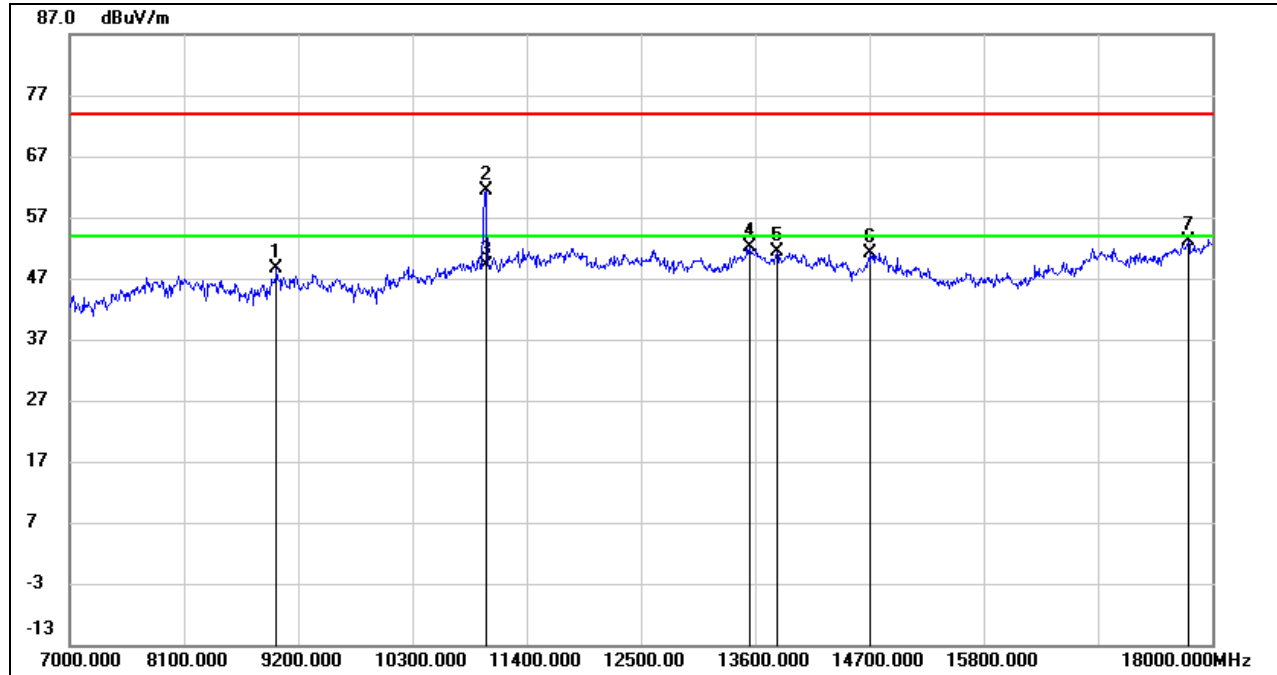
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8342.000        | 39.37          | 8.87           | 48.24           | 74.00          | -25.76      | peak   |
| 2   | 10630.000       | 45.17          | 13.35          | 58.52           | 74.00          | -15.48      | peak   |
| 3   | 10630.000       | 28.95          | 13.35          | 42.30           | 54.00          | -11.70      | AVG    |
| 4   | 11873.000       | 35.28          | 17.17          | 52.45           | 74.00          | -21.55      | peak   |
| 5   | 13919.000       | 32.29          | 19.30          | 51.59           | 74.00          | -22.41      | peak   |
| 6   | 15624.000       | 32.86          | 15.64          | 48.50           | 74.00          | -25.50      | peak   |
| 7   | 17967.000       | 29.06          | 24.75          | 53.81           | 74.00          | -20.19      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2C BAND

### ANTENNA 1 TEST RESULTS (WORST CASE)

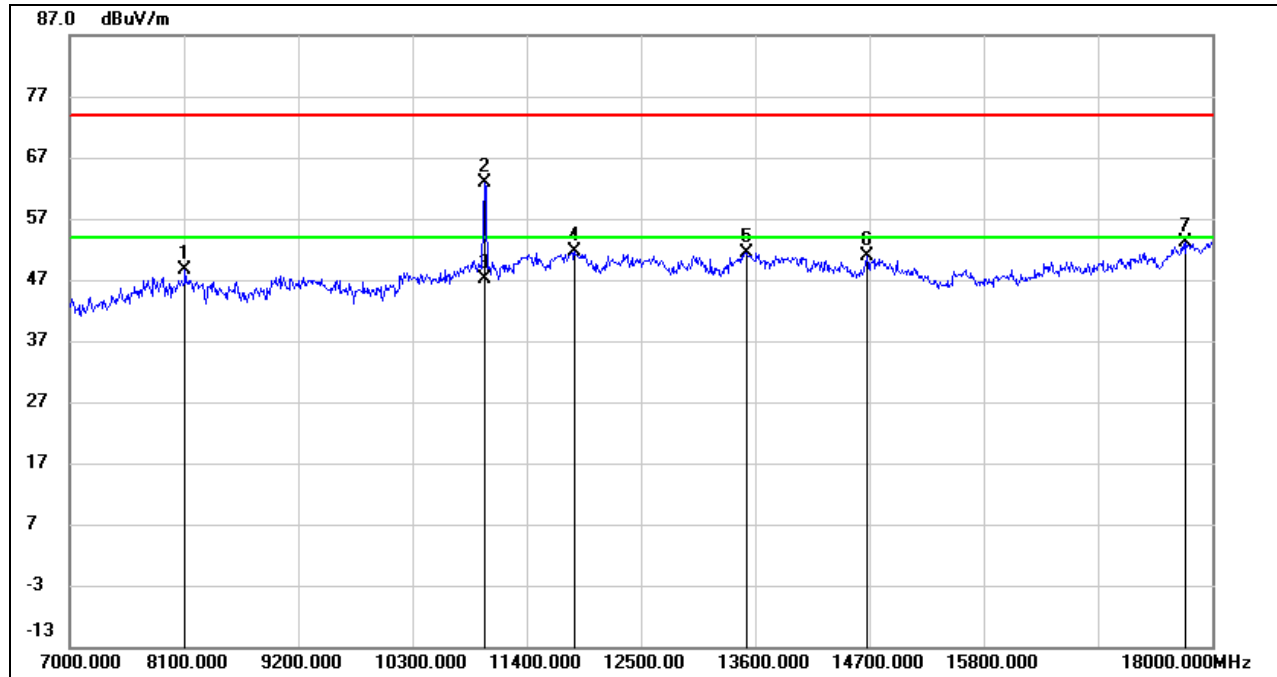
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8991.000        | 38.04          | 10.60          | 48.64           | 74.00          | -25.36      | peak   |
| 2   | 11004.000       | 47.15          | 14.23          | 61.38           | 74.00          | -12.62      | peak   |
| 3   | 11004.000       | 34.98          | 14.23          | 49.21           | 54.00          | -4.79       | AVG    |
| 4   | 13545.000       | 32.89          | 19.13          | 52.02           | 74.00          | -21.98      | peak   |
| 5   | 13809.000       | 32.02          | 19.42          | 51.44           | 74.00          | -22.56      | peak   |
| 6   | 14711.000       | 33.64          | 17.48          | 51.12           | 74.00          | -22.88      | peak   |
| 7   | 17769.000       | 29.29          | 23.92          | 53.21           | 74.00          | -20.79      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8111.000        | 39.12          | 9.52           | 48.64           | 74.00          | -25.36      | peak   |
| 2   | 10993.000       | 48.78          | 14.20          | 62.98           | 74.00          | -11.02      | peak   |
| 3   | 10993.000       | 33.01          | 14.20          | 47.21           | 54.00          | -6.79       | AVG    |
| 4   | 11862.000       | 34.57          | 17.14          | 51.71           | 74.00          | -22.29      | peak   |
| 5   | 13512.000       | 32.28          | 19.20          | 51.48           | 74.00          | -22.52      | peak   |
| 6   | 14678.000       | 33.53          | 17.46          | 50.99           | 74.00          | -23.01      | peak   |
| 7   | 17747.000       | 29.32          | 23.74          | 53.06           | 74.00          | -20.94      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

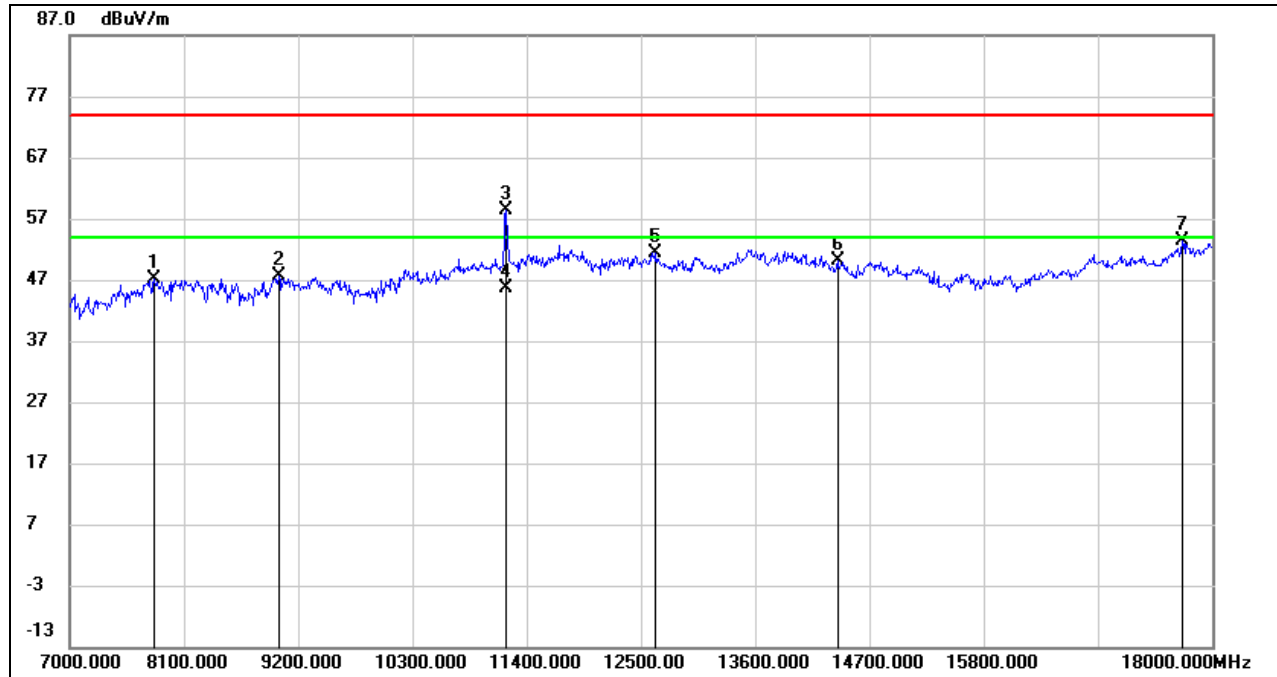
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7814.000        | 38.51          | 8.64           | 47.15           | 74.00          | -26.85      | peak   |
| 2   | 9013.000        | 36.93          | 10.63          | 47.56           | 74.00          | -26.44      | peak   |
| 3   | 11202.000       | 43.31          | 15.06          | 58.37           | 74.00          | -15.63      | peak   |
| 4   | 11202.000       | 30.60          | 15.06          | 45.66           | 54.00          | -8.34       | AVG    |
| 5   | 12643.000       | 34.31          | 17.07          | 51.38           | 74.00          | -22.62      | peak   |
| 6   | 14392.000       | 32.00          | 18.05          | 50.05           | 74.00          | -23.95      | peak   |
| 7   | 17714.000       | 29.92          | 23.45          | 53.37           | 74.00          | -20.63      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

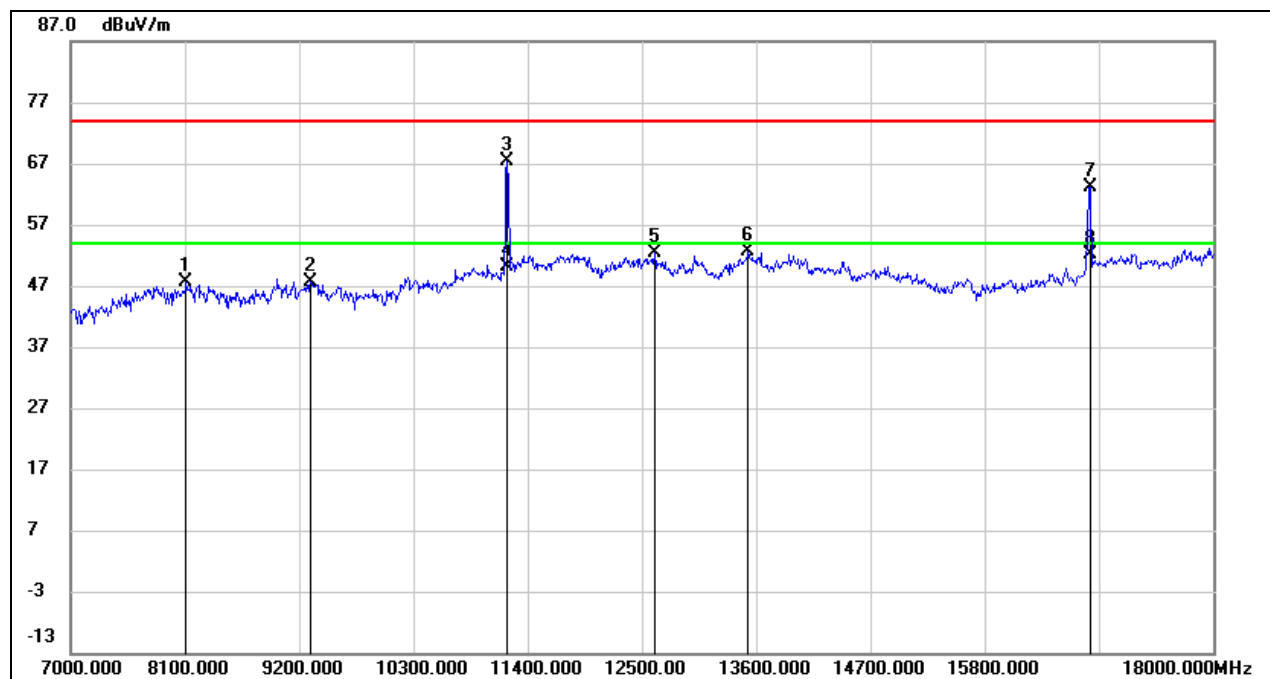
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8111.000        | 38.15          | 9.52           | 47.67           | 74.00          | -26.33      | peak   |
| 2   | 9310.000        | 37.47          | 10.21          | 47.68           | 74.00          | -26.32      | peak   |
| 3   | 11202.000       | 52.25          | 15.06          | 67.31           | 74.00          | -6.69       | peak   |
| 4   | 11202.000       | 35.09          | 15.06          | 50.15           | 54.00          | -3.85       | AVG    |
| 5   | 12621.000       | 35.38          | 17.10          | 52.48           | 74.00          | -21.52      | peak   |
| 6   | 13523.000       | 33.47          | 19.18          | 52.65           | 74.00          | -21.35      | peak   |
| 7   | 16812.000       | 44.29          | 18.85          | 63.14           | 74.00          | -10.86      | peak   |
| 8   | 16812.000       | 33.22          | 18.85          | 52.07           | 54.00          | -1.93       | AVG    |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

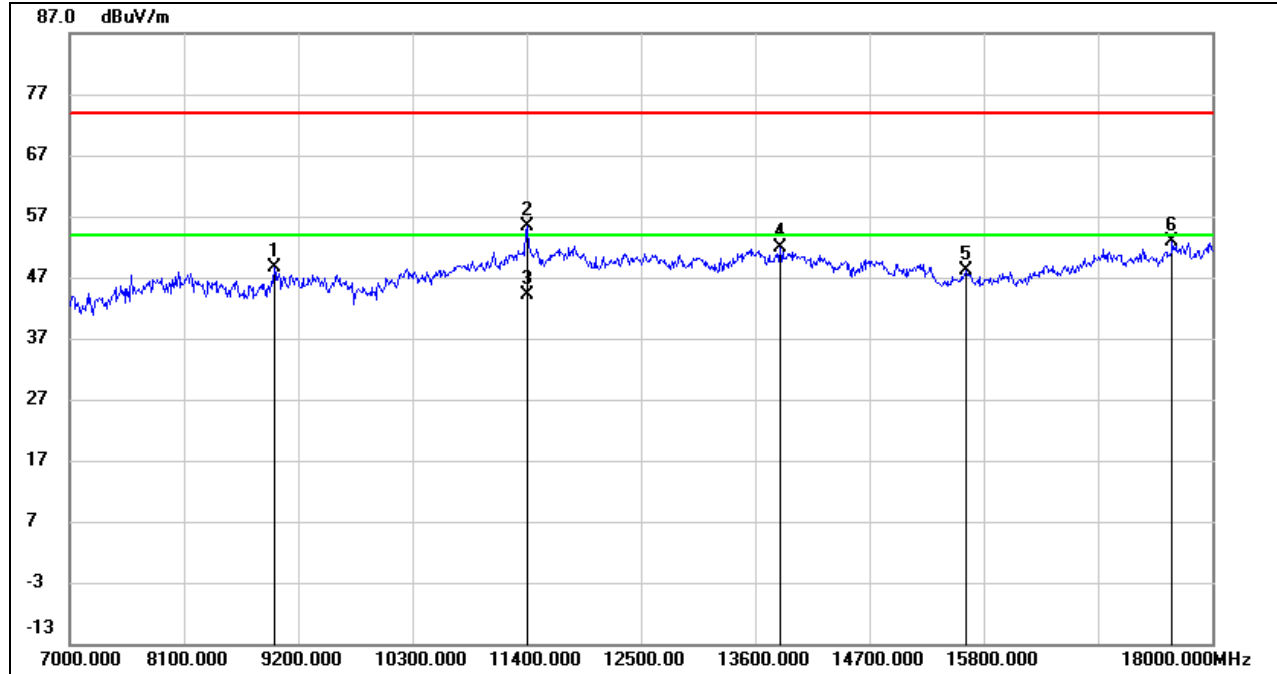
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

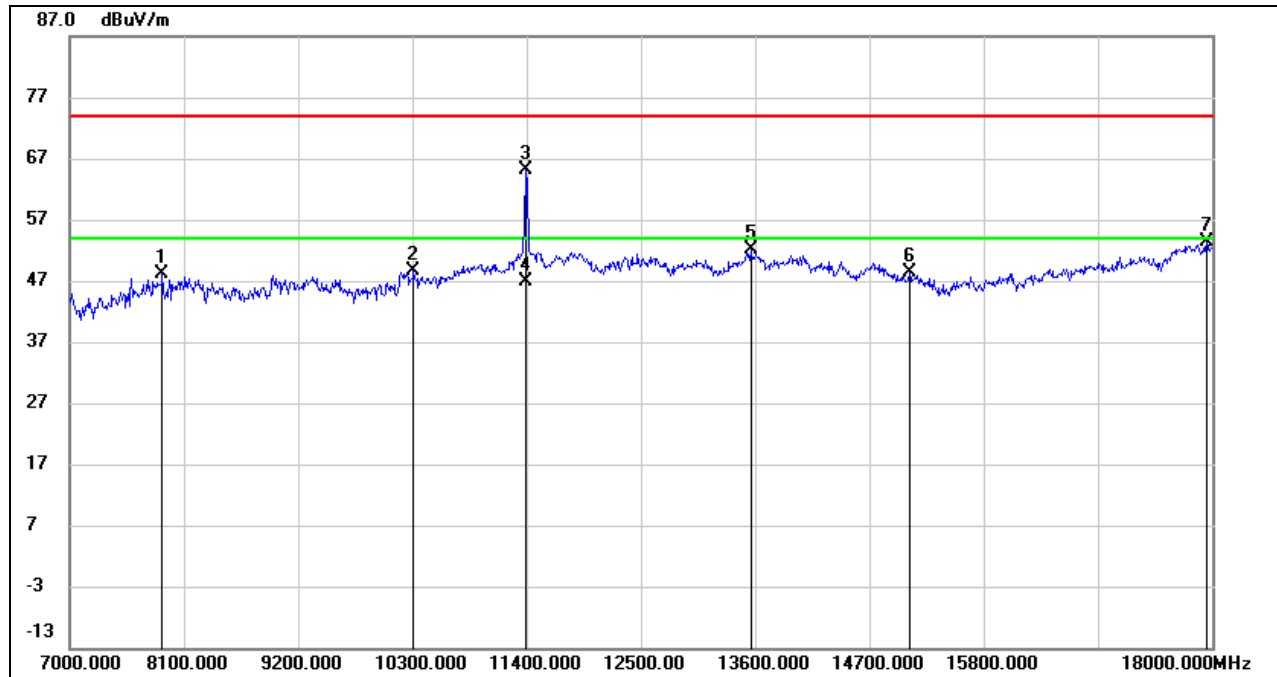
### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8969.000        | 38.40          | 10.17          | 48.57           | 74.00          | -25.43      | peak   |
| 2   | 11400.000       | 39.08          | 16.38          | 55.46           | 74.00          | -18.54      | peak   |
| 3   | 11400.000       | 27.74          | 16.38          | 44.12           | 54.00          | -9.88       | AVG    |
| 4   | 13842.000       | 32.40          | 19.37          | 51.77           | 74.00          | -22.23      | peak   |
| 5   | 15635.000       | 32.39          | 15.63          | 48.02           | 74.00          | -25.98      | peak   |
| 6   | 17615.000       | 30.40          | 22.46          | 52.86           | 74.00          | -21.14      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7891.000           | 39.86             | 8.27              | 48.13              | 74.00             | -25.87         | peak   |
| 2   | 10311.000          | 36.29             | 12.40             | 48.69              | 74.00             | -25.31         | peak   |
| 3   | 11389.000          | 48.94             | 16.26             | 65.20              | 74.00             | -8.80          | peak   |
| 4   | 11389.000          | 30.65             | 16.26             | 46.91              | 54.00             | -7.09          | AVG    |
| 5   | 13556.000          | 33.12             | 19.11             | 52.23              | 74.00             | -21.77         | peak   |
| 6   | 15085.000          | 32.12             | 16.26             | 48.38              | 74.00             | -25.62         | peak   |
| 7   | 17945.000          | 28.83             | 24.61             | 53.44              | 74.00             | -20.56         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

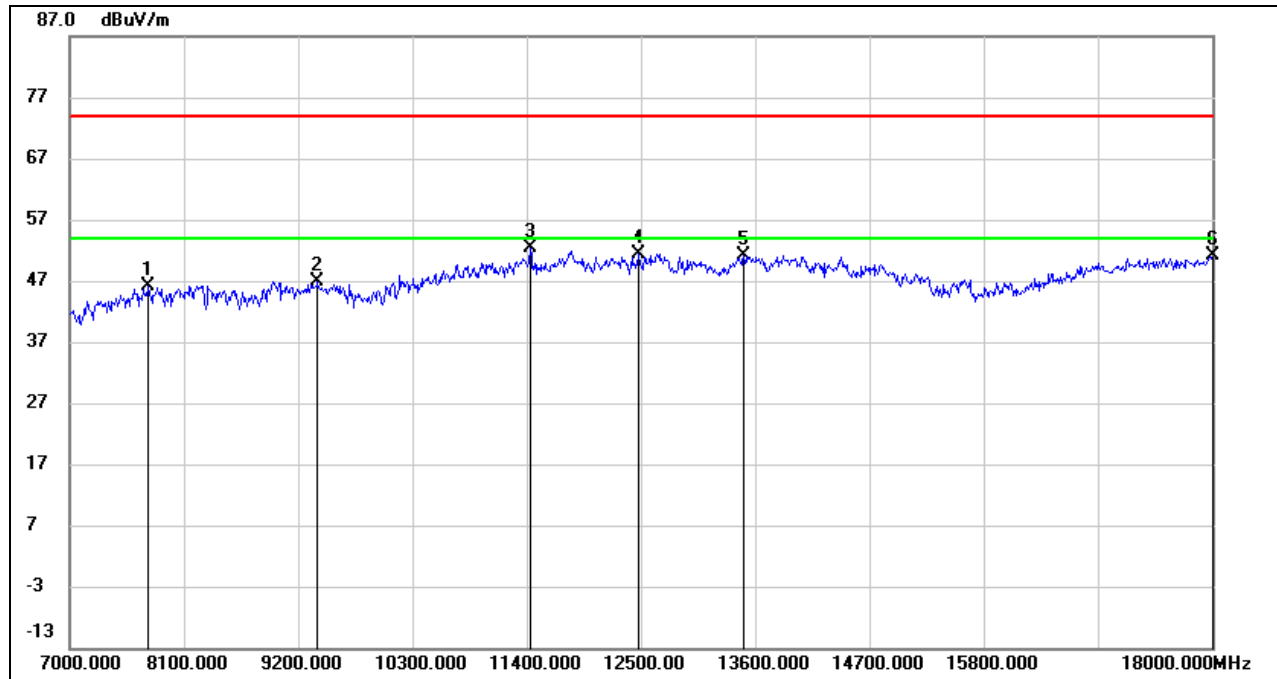
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## STRADDLE CHANNEL 144

### ANTENNA 1 TEST RESULTS (WORST CASE)

#### HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)

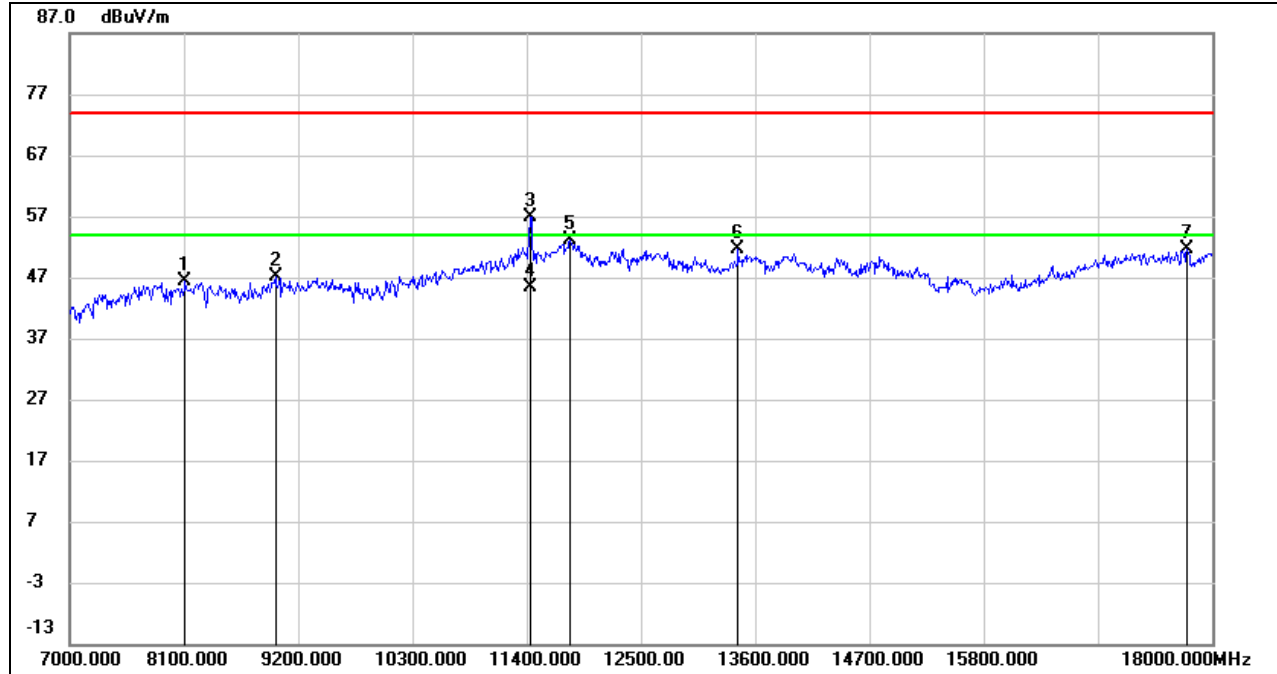


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7759.000           | 38.74             | 7.45              | 46.19              | 74.00             | -27.81         | peak   |
| 2   | 9387.000           | 36.87             | 10.05             | 46.92              | 74.00             | -27.08         | peak   |
| 3   | 11433.000          | 36.43             | 15.95             | 52.38              | 74.00             | -21.62         | peak   |
| 4   | 12478.000          | 34.74             | 16.72             | 51.46              | 74.00             | -22.54         | peak   |
| 5   | 13490.000          | 32.75             | 18.40             | 51.15              | 74.00             | -22.85         | peak   |
| 6   | 18000.000          | 27.85             | 23.37             | 51.22              | 74.00             | -22.78         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



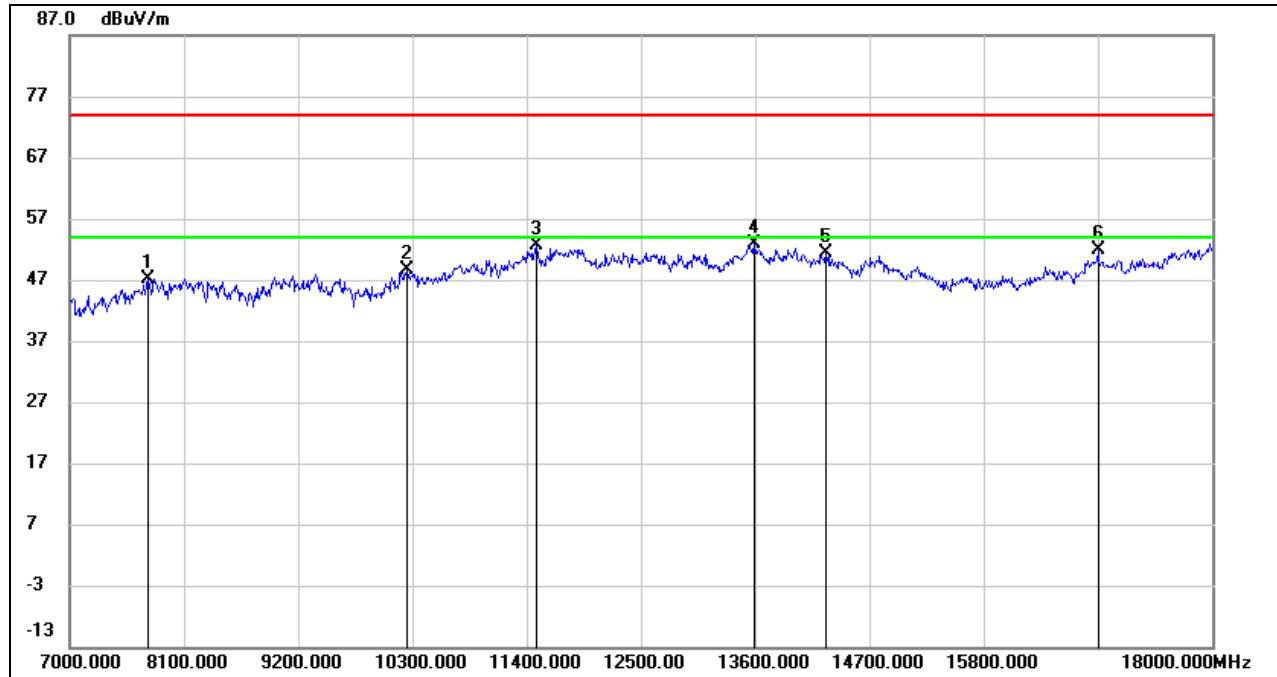
| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8111.000        | 38.37          | 7.99           | 46.36           | 74.00          | -27.64      | peak   |
| 2   | 8980.000        | 37.19          | 9.91           | 47.10           | 74.00          | -26.90      | peak   |
| 3   | 11433.000       | 41.01          | 15.95          | 56.96           | 74.00          | -17.04      | peak   |
| 4   | 11433.000       | 29.34          | 15.95          | 45.29           | 54.00          | -8.71       | AVG    |
| 5   | 11818.000       | 35.88          | 17.31          | 53.19           | 74.00          | -20.81      | peak   |
| 6   | 13435.000       | 33.36          | 18.28          | 51.64           | 74.00          | -22.36      | peak   |
| 7   | 17758.000       | 29.22          | 22.42          | 51.64           | 74.00          | -22.36      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

# UNII-3 BAND

## ANTENNA 1 TEST RESULTS (WORST CASE)

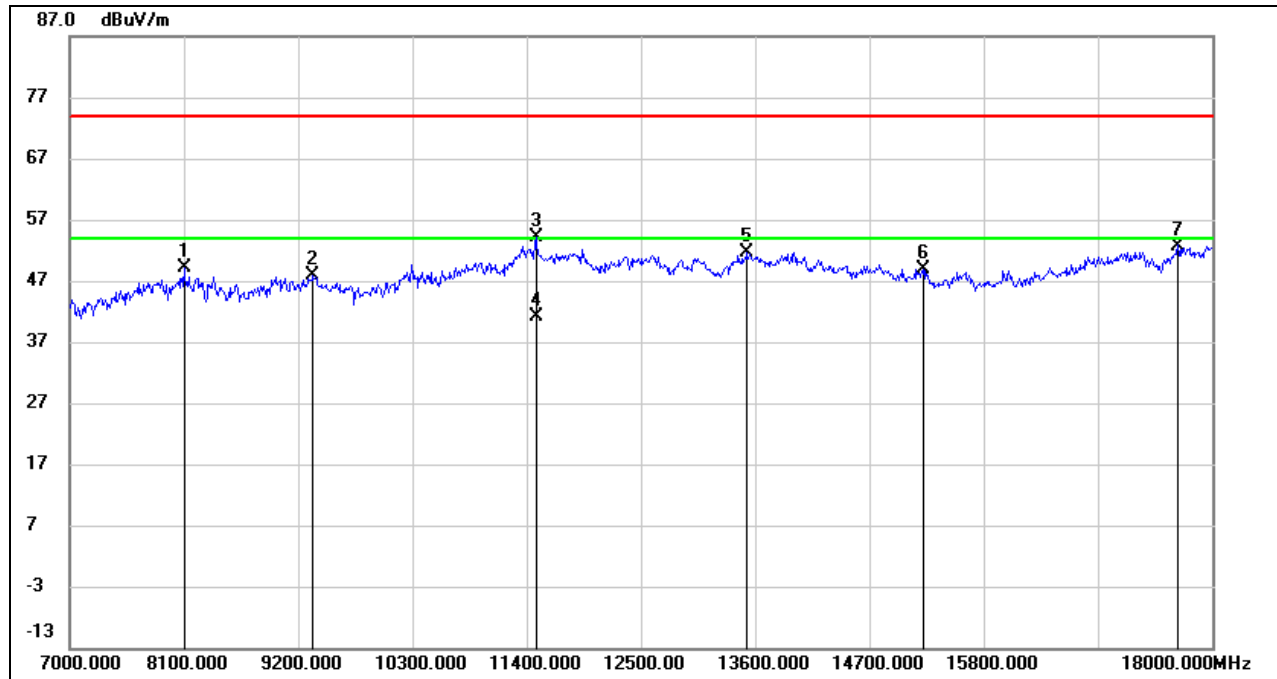
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7748.000        | 39.02          | 8.23           | 47.25           | 74.00          | -26.75      | peak   |
| 2   | 10245.000       | 36.51          | 12.18          | 48.69           | 74.00          | -25.31      | peak   |
| 3   | 11488.000       | 36.31          | 16.44          | 52.75           | 74.00          | -21.25      | peak   |
| 4   | 13589.000       | 33.91          | 19.05          | 52.96           | 74.00          | -21.04      | peak   |
| 5   | 14282.000       | 32.32          | 18.98          | 51.30           | 74.00          | -22.70      | peak   |
| 6   | 16900.000       | 32.08          | 19.73          | 51.81           | 74.00          | -22.19      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

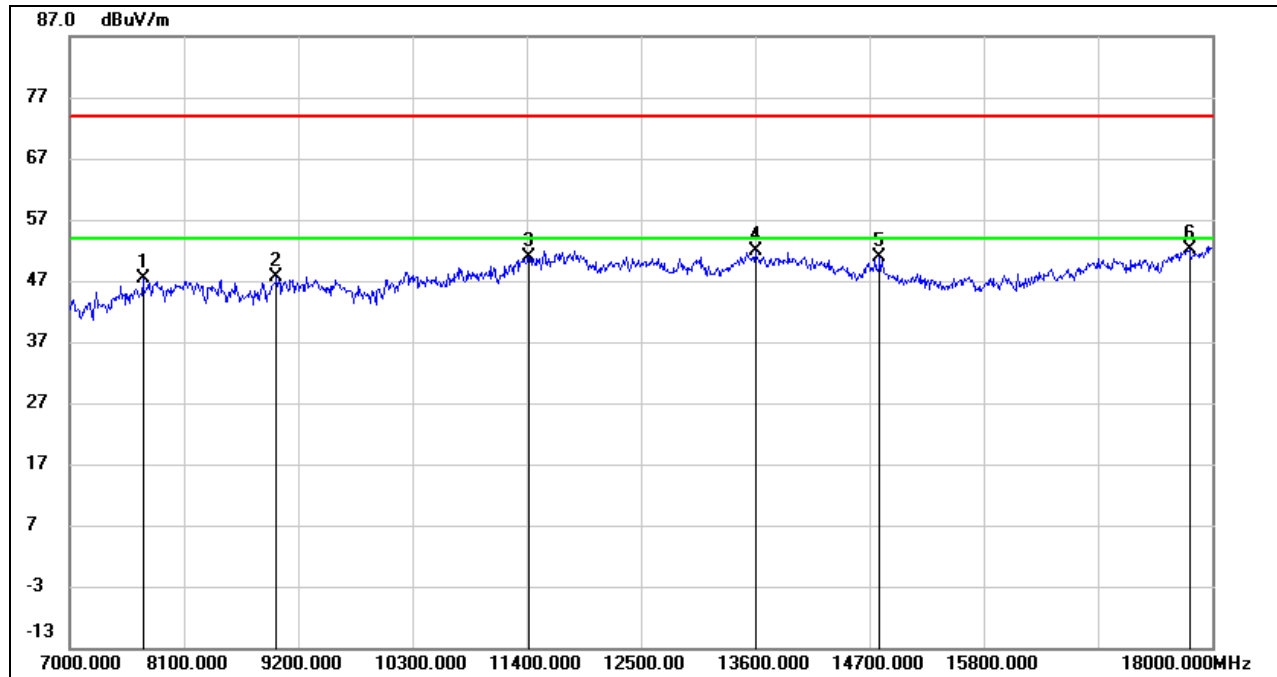
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8100.000        | 39.45          | 9.56           | 49.01           | 74.00          | -24.99      | peak   |
| 2   | 9343.000        | 37.39          | 10.42          | 47.81           | 74.00          | -26.19      | peak   |
| 3   | 11488.000       | 37.60          | 16.44          | 54.04           | 74.00          | -19.96      | peak   |
| 4   | 11488.000       | 24.78          | 16.44          | 41.22           | 54.00          | -12.78      | AVG    |
| 5   | 13523.000       | 32.53          | 19.18          | 51.71           | 74.00          | -22.29      | peak   |
| 6   | 15217.000       | 33.50          | 15.49          | 48.99           | 74.00          | -25.01      | peak   |
| 7   | 17670.000       | 29.73          | 23.02          | 52.75           | 74.00          | -21.25      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
 2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Peak: Peak detector.  
 4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
 5. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
 6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7704.000        | 39.64          | 7.82           | 47.46           | 74.00          | -26.54      | peak   |
| 2   | 8991.000        | 37.12          | 10.60          | 47.72           | 74.00          | -26.28      | peak   |
| 3   | 11422.000       | 34.49          | 16.39          | 50.88           | 74.00          | -23.12      | peak   |
| 4   | 13600.000       | 32.94          | 19.04          | 51.98           | 74.00          | -22.02      | peak   |
| 5   | 14799.000       | 33.36          | 17.56          | 50.92           | 74.00          | -23.08      | peak   |
| 6   | 17780.000       | 27.99          | 24.02          | 52.01           | 74.00          | -21.99      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

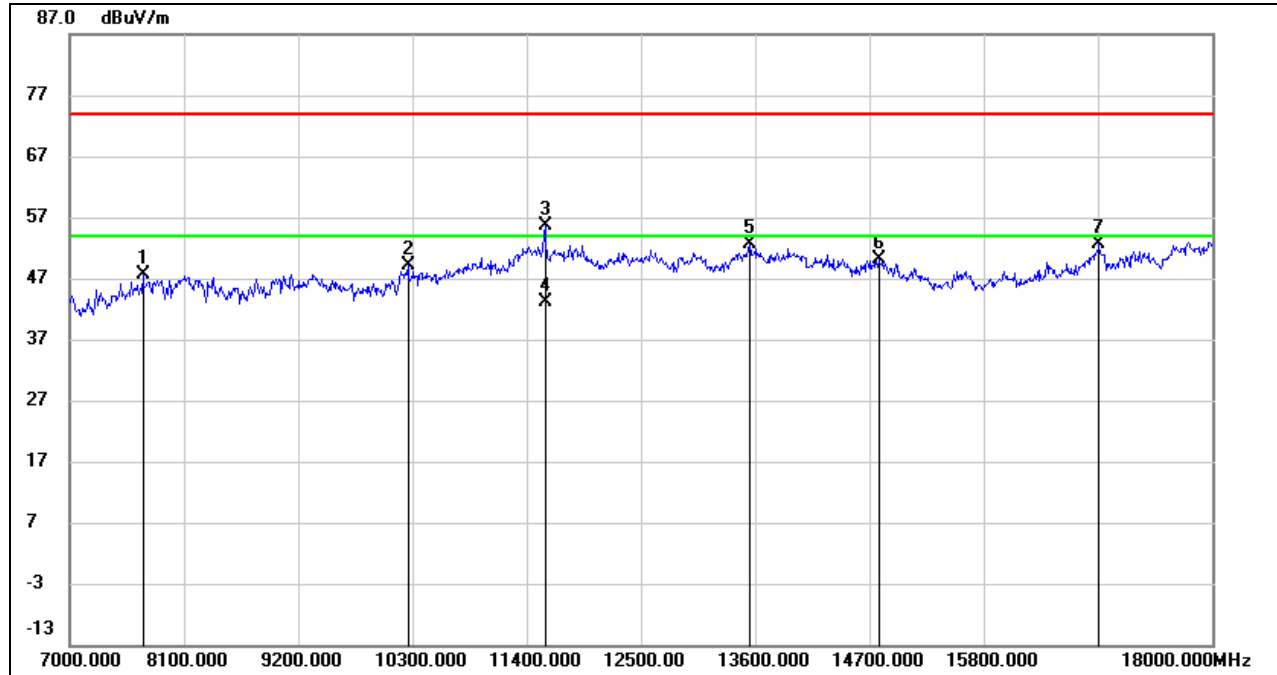
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7704.000        | 39.83          | 7.82           | 47.65           | 74.00          | -26.35      | peak   |
| 2   | 10256.000       | 36.95          | 12.22          | 49.17           | 74.00          | -24.83      | peak   |
| 3   | 11576.000       | 39.09          | 16.49          | 55.58           | 74.00          | -18.42      | peak   |
| 4   | 11576.000       | 26.62          | 16.49          | 43.11           | 54.00          | -10.89      | AVG    |
| 5   | 13545.000       | 33.39          | 19.13          | 52.52           | 74.00          | -21.48      | peak   |
| 6   | 14788.000       | 32.51          | 17.55          | 50.06           | 74.00          | -23.94      | peak   |
| 7   | 16911.000       | 32.86          | 19.71          | 52.57           | 74.00          | -21.43      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

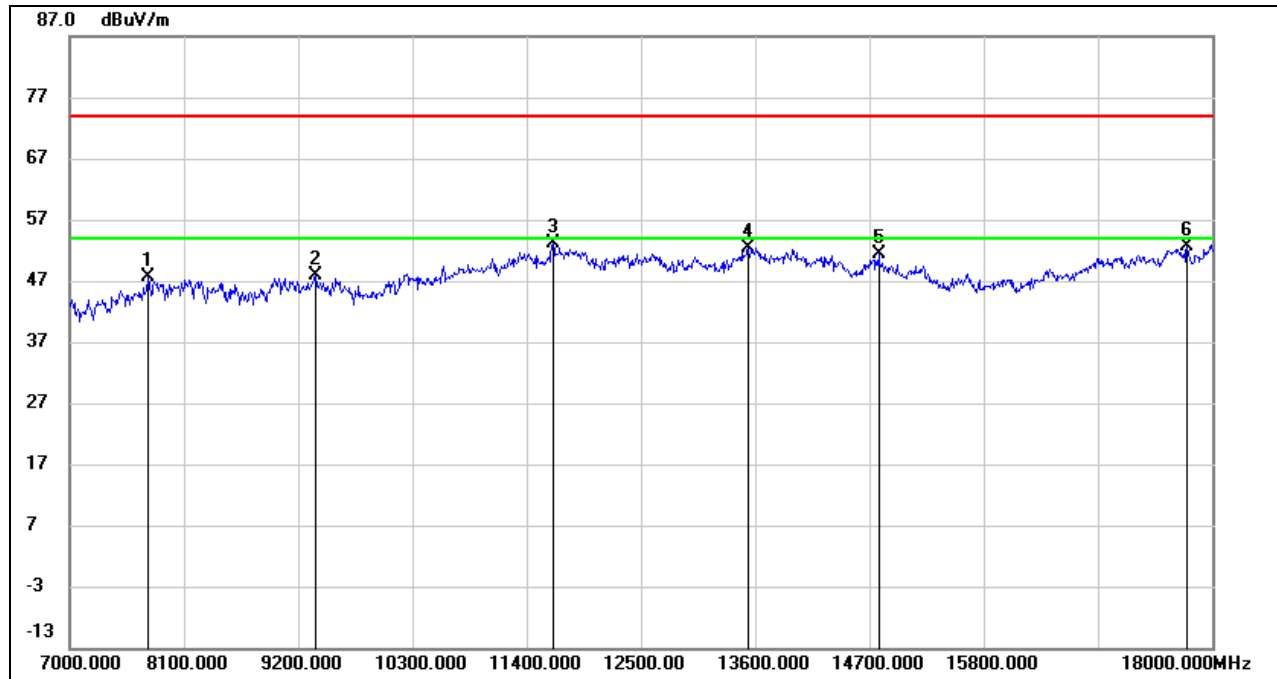
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

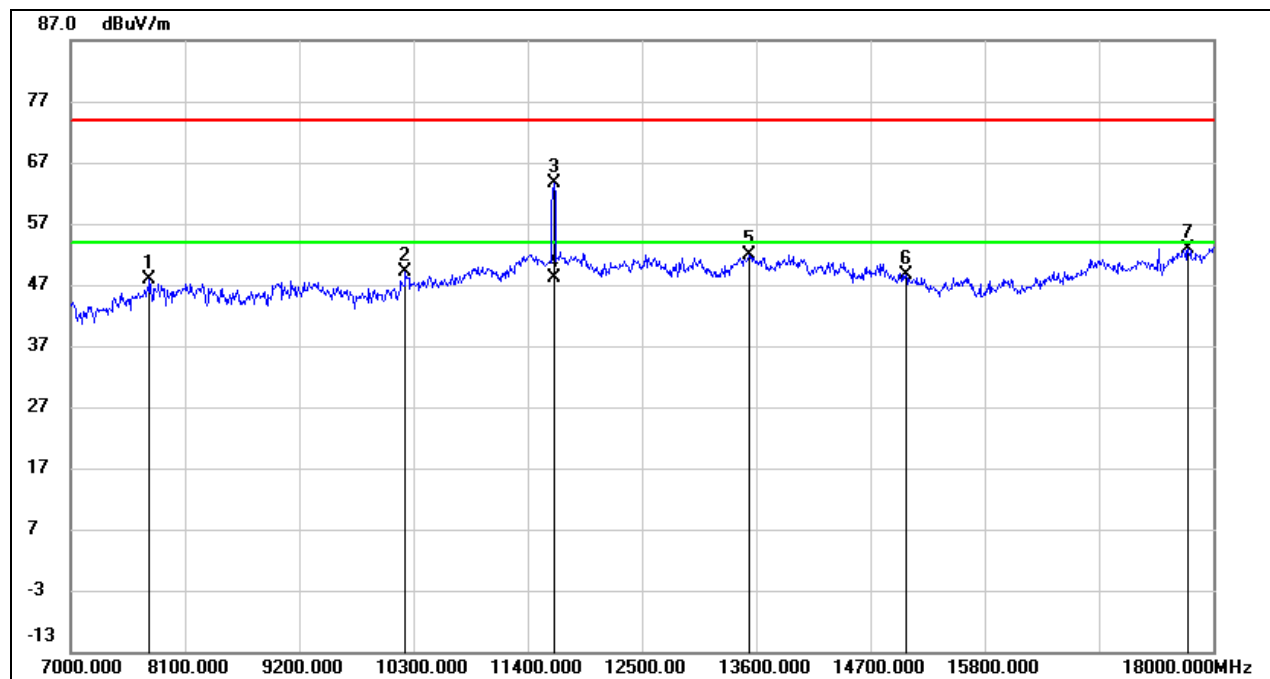
### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7759.000        | 39.17          | 8.34           | 47.51           | 74.00          | -26.49      | peak   |
| 2   | 9365.000        | 37.25          | 10.56          | 47.81           | 74.00          | -26.19      | peak   |
| 3   | 11653.000       | 36.40          | 16.82          | 53.22           | 74.00          | -20.78      | peak   |
| 4   | 13534.000       | 33.30          | 19.16          | 52.46           | 74.00          | -21.54      | peak   |
| 5   | 14788.000       | 33.86          | 17.55          | 51.41           | 74.00          | -22.59      | peak   |
| 6   | 17758.000       | 28.86          | 23.83          | 52.69           | 74.00          | -21.31      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7759.000        | 39.62          | 8.34           | 47.96           | 74.00          | -26.04      | peak   |
| 2   | 10223.000       | 36.99          | 12.11          | 49.10           | 74.00          | -24.90      | peak   |
| 3   | 11653.000       | 46.76          | 16.82          | 63.58           | 74.00          | -10.42      | peak   |
| 4   | 11653.000       | 31.30          | 16.82          | 48.12           | 54.00          | -5.88       | AVG    |
| 5   | 13534.000       | 32.65          | 19.16          | 51.81           | 74.00          | -22.19      | peak   |
| 6   | 15041.000       | 32.24          | 16.47          | 48.71           | 74.00          | -25.29      | peak   |
| 7   | 17758.000       | 29.05          | 23.83          | 52.88           | 74.00          | -21.12      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

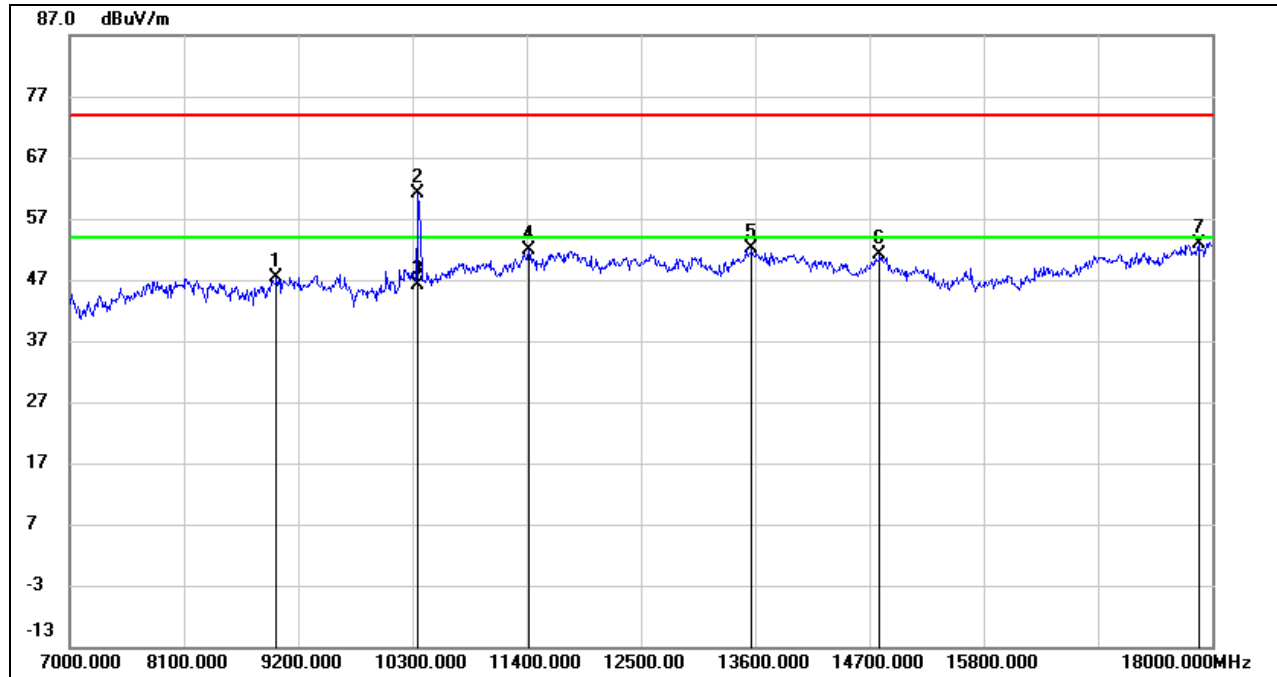
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### 8.3.2. 802.11ac VHT20 MODE

#### UNII-1 BAND

#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)

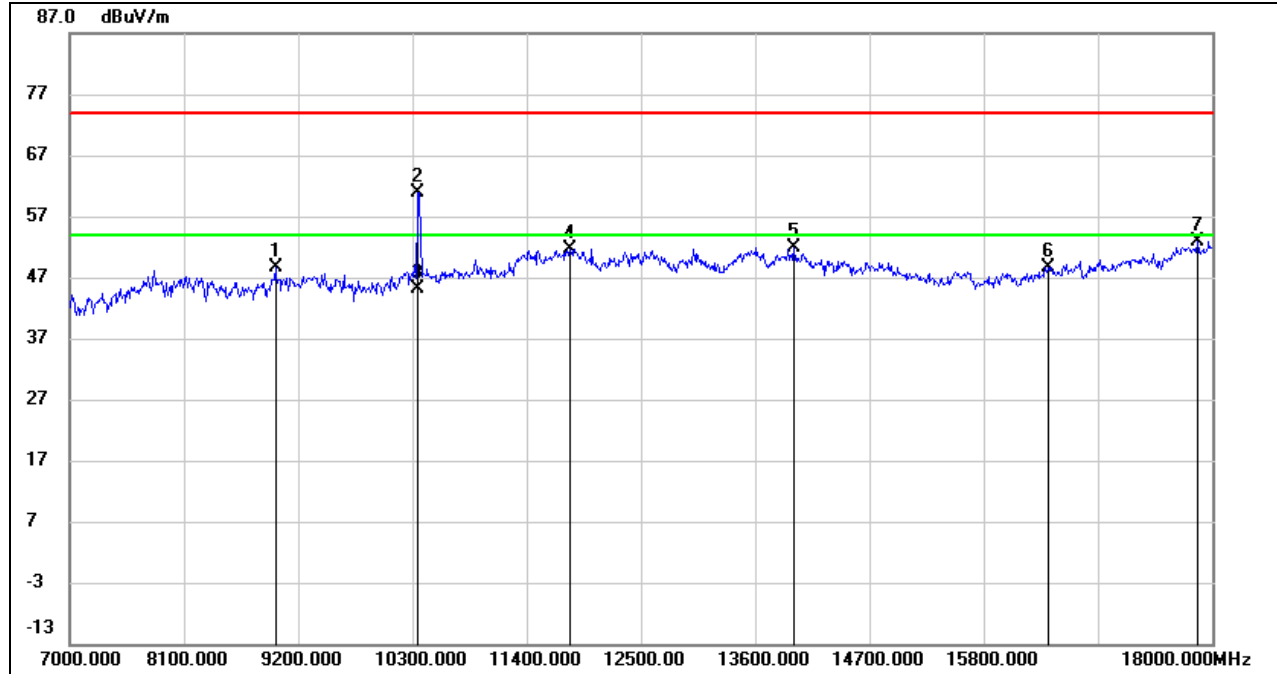


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8991.000        | 36.67          | 10.60          | 47.27           | 74.00          | -26.73      | peak   |
| 2   | 10355.000       | 48.53          | 12.57          | 61.10           | 74.00          | -12.90      | peak   |
| 3   | 10355.000       | 33.53          | 12.57          | 46.10           | 54.00          | -7.90       | AVG    |
| 4   | 11422.000       | 35.54          | 16.39          | 51.93           | 74.00          | -22.07      | peak   |
| 5   | 13567.000       | 33.00          | 19.10          | 52.10           | 74.00          | -21.90      | peak   |
| 6   | 14799.000       | 33.65          | 17.56          | 51.21           | 74.00          | -22.79      | peak   |
| 7   | 17868.000       | 28.52          | 24.27          | 52.79           | 74.00          | -21.21      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8980.000        | 38.13          | 10.39          | 48.52           | 74.00          | -25.48      | peak   |
| 2   | 10355.000       | 48.24          | 12.57          | 60.81           | 74.00          | -13.19      | peak   |
| 3   | 10355.000       | 32.65          | 12.57          | 45.22           | 54.00          | -8.78       | AVG    |
| 4   | 11818.000       | 34.62          | 17.02          | 51.64           | 74.00          | -22.36      | peak   |
| 5   | 13974.000       | 32.52          | 19.34          | 51.86           | 74.00          | -22.14      | peak   |
| 6   | 16427.000       | 31.36          | 17.24          | 48.60           | 74.00          | -25.40      | peak   |
| 7   | 17857.000       | 28.55          | 24.26          | 52.81           | 74.00          | -21.19      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

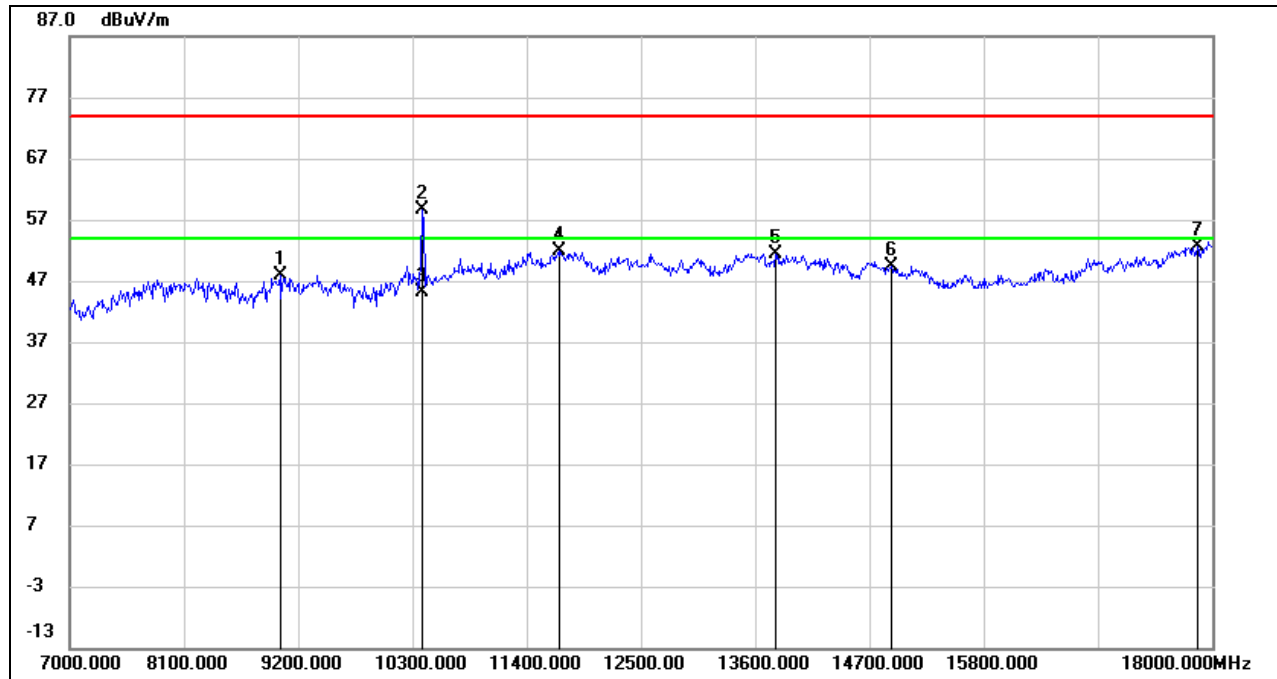
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 9024.000        | 37.45          | 10.53          | 47.98           | 74.00          | -26.02      | peak   |
| 2   | 10388.000       | 45.90          | 12.70          | 58.60           | 74.00          | -15.40      | peak   |
| 3   | 10388.000       | 32.42          | 12.70          | 45.12           | 54.00          | -8.88       | AVG    |
| 4   | 11719.000       | 34.71          | 17.09          | 51.80           | 74.00          | -22.20      | peak   |
| 5   | 13798.000       | 32.05          | 19.43          | 51.48           | 74.00          | -22.52      | peak   |
| 6   | 14909.000       | 32.72          | 16.65          | 49.37           | 74.00          | -24.63      | peak   |
| 7   | 17857.000       | 28.40          | 24.26          | 52.66           | 74.00          | -21.34      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

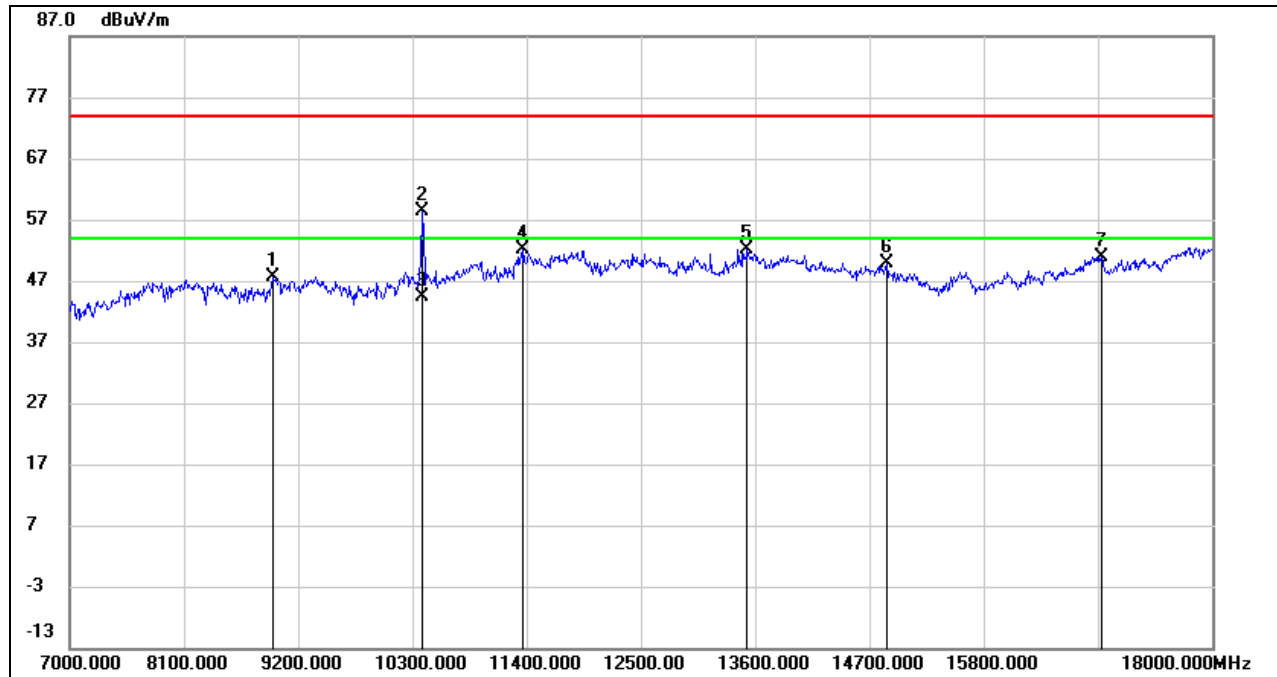
3. Peak: Peak detector.

4. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

5. Proper operation of the transmitter prior to adding the filter to the measurement chain.

6. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

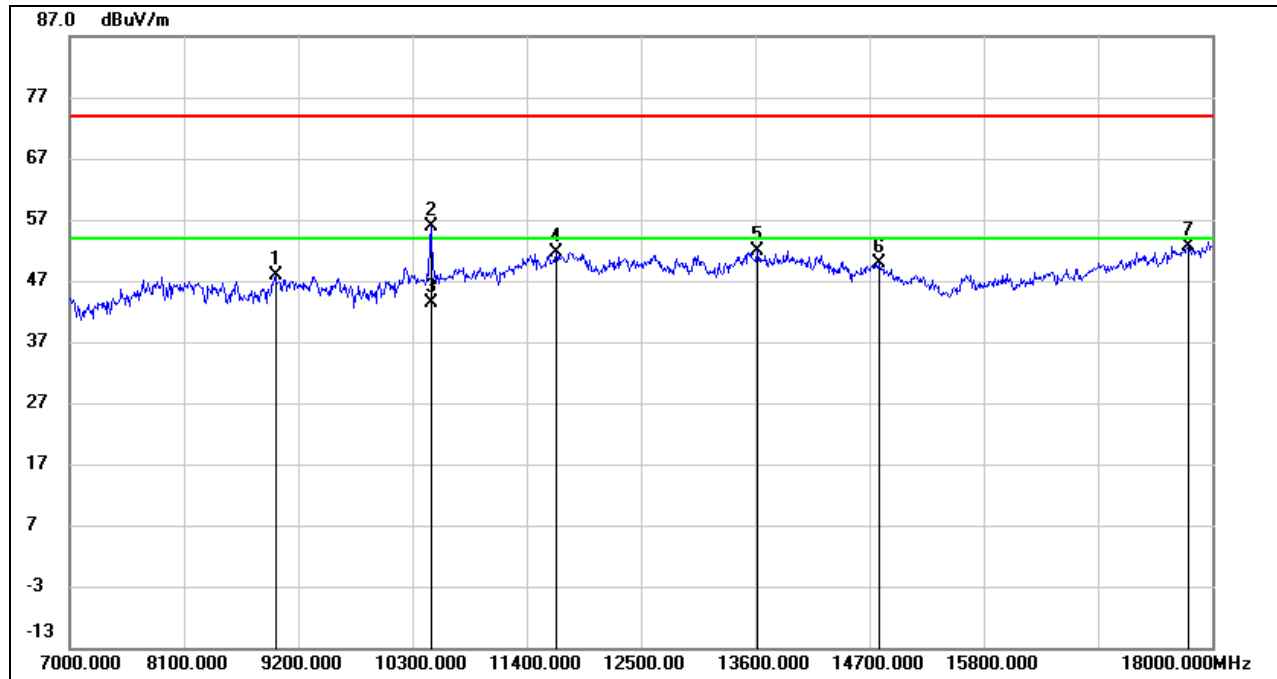
### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8958.000        | 37.66          | 9.96           | 47.62           | 74.00          | -26.38      | peak   |
| 2   | 10388.000       | 45.75          | 12.70          | 58.45           | 74.00          | -15.55      | peak   |
| 3   | 10388.000       | 31.80          | 12.70          | 44.50           | 54.00          | -9.50       | AVG    |
| 4   | 11367.000       | 36.00          | 16.01          | 52.01           | 74.00          | -21.99      | peak   |
| 5   | 13523.000       | 33.05          | 19.18          | 52.23           | 74.00          | -21.77      | peak   |
| 6   | 14865.000       | 32.85          | 16.97          | 49.82           | 74.00          | -24.18      | peak   |
| 7   | 16933.000       | 31.20          | 19.67          | 50.87           | 74.00          | -23.13      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8980.000           | 37.47             | 10.39             | 47.86              | 74.00             | -26.14         | peak   |
| 2   | 10476.000          | 43.09             | 12.84             | 55.93              | 74.00             | -18.07         | peak   |
| 3   | 10476.000          | 30.49             | 12.84             | 43.33              | 54.00             | -10.67         | AVG    |
| 4   | 11686.000          | 34.62             | 17.03             | 51.65              | 74.00             | -22.35         | peak   |
| 5   | 13622.000          | 32.72             | 19.13             | 51.85              | 74.00             | -22.15         | peak   |
| 6   | 14799.000          | 32.40             | 17.56             | 49.96              | 74.00             | -24.04         | peak   |
| 7   | 17769.000          | 28.75             | 23.92             | 52.67              | 74.00             | -21.33         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

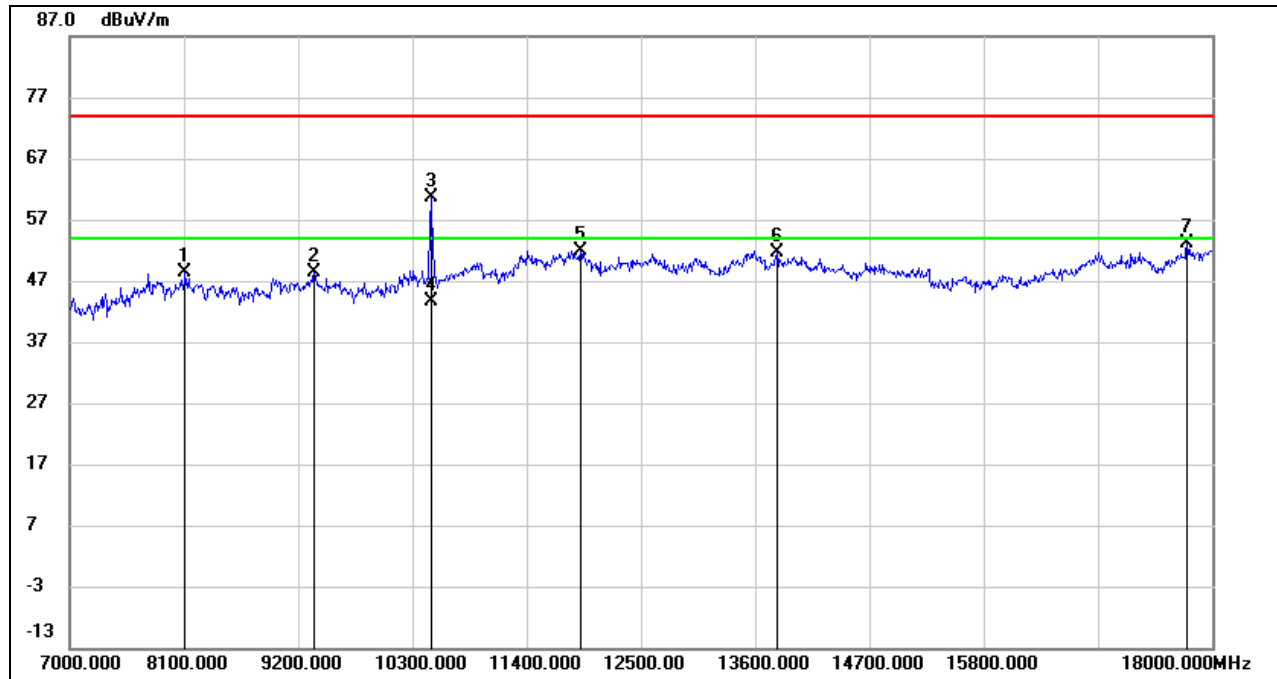
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

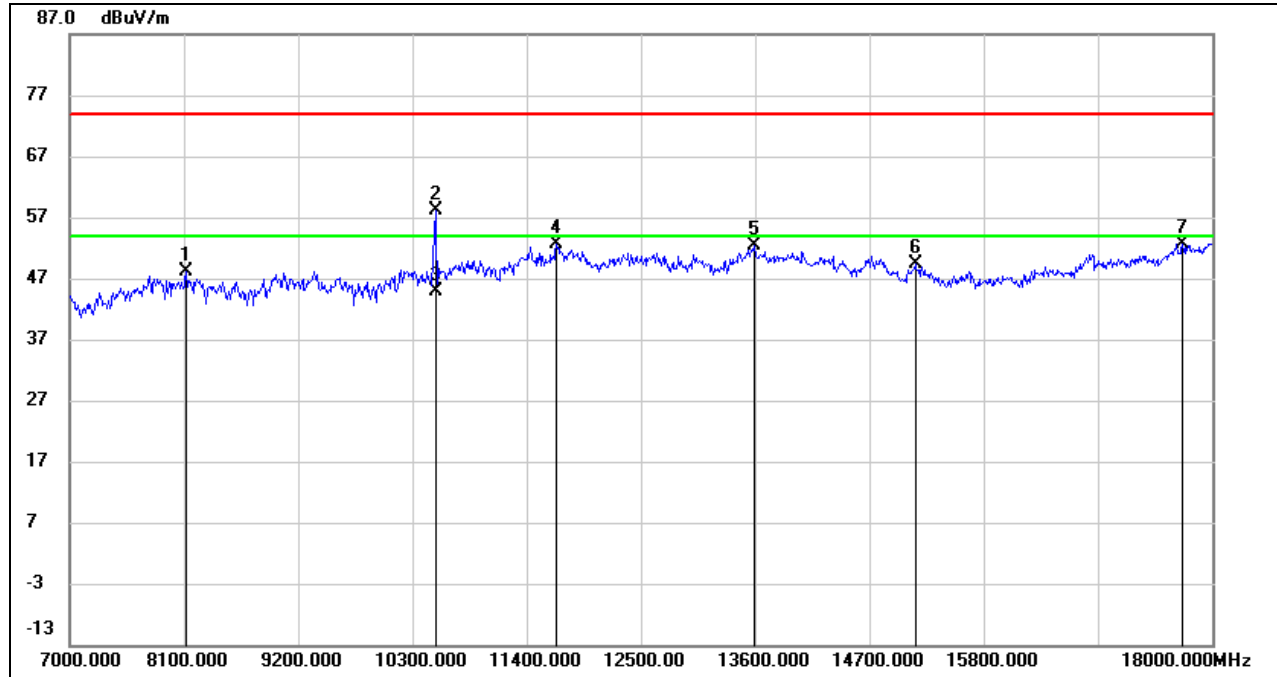


| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8111.000           | 38.83             | 9.52              | 48.35              | 74.00             | -25.65         | peak   |
| 2   | 9354.000           | 37.87             | 10.49             | 48.36              | 74.00             | -25.64         | peak   |
| 3   | 10476.000          | 47.80             | 12.84             | 60.64              | 74.00             | -13.36         | peak   |
| 4   | 10476.000          | 30.73             | 12.84             | 43.57              | 54.00             | -10.43         | AVG    |
| 5   | 11917.000          | 34.59             | 17.24             | 51.83              | 74.00             | -22.17         | peak   |
| 6   | 13809.000          | 32.12             | 19.42             | 51.54              | 74.00             | -22.46         | peak   |
| 7   | 17758.000          | 29.19             | 23.83             | 53.02              | 74.00             | -20.98         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2A BAND

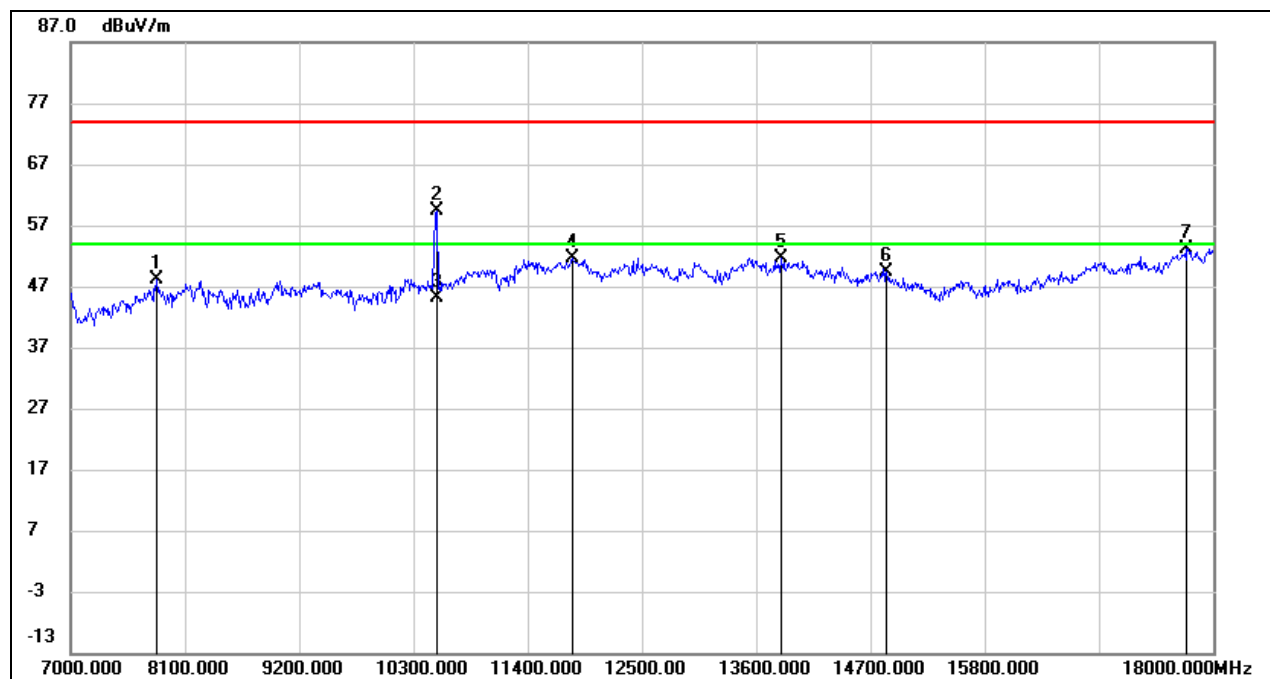
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8122.000        | 38.56          | 9.47           | 48.03           | 74.00          | -25.97      | peak   |
| 2   | 10520.000       | 45.09          | 12.95          | 58.04           | 74.00          | -15.96      | peak   |
| 3   | 10520.000       | 31.83          | 12.95          | 44.78           | 54.00          | -9.22       | AVG    |
| 4   | 11686.000       | 35.62          | 17.03          | 52.65           | 74.00          | -21.35      | peak   |
| 5   | 13589.000       | 33.23          | 19.05          | 52.28           | 74.00          | -21.72      | peak   |
| 6   | 15140.000       | 33.42          | 15.90          | 49.32           | 74.00          | -24.68      | peak   |
| 7   | 17714.000       | 29.21          | 23.45          | 52.66           | 74.00          | -21.34      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7825.000           | 39.45             | 8.59              | 48.04              | 74.00             | -25.96         | peak   |
| 2   | 10520.000          | 46.53             | 12.95             | 59.48              | 74.00             | -14.52         | peak   |
| 3   | 10520.000          | 32.16             | 12.95             | 45.11              | 54.00             | -8.89          | AVG    |
| 4   | 11829.000          | 34.59             | 17.05             | 51.64              | 74.00             | -22.36         | peak   |
| 5   | 13842.000          | 32.33             | 19.37             | 51.70              | 74.00             | -22.30         | peak   |
| 6   | 14854.000          | 32.30             | 17.07             | 49.37              | 74.00             | -24.63         | peak   |
| 7   | 17747.000          | 29.47             | 23.74             | 53.21              | 74.00             | -20.79         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

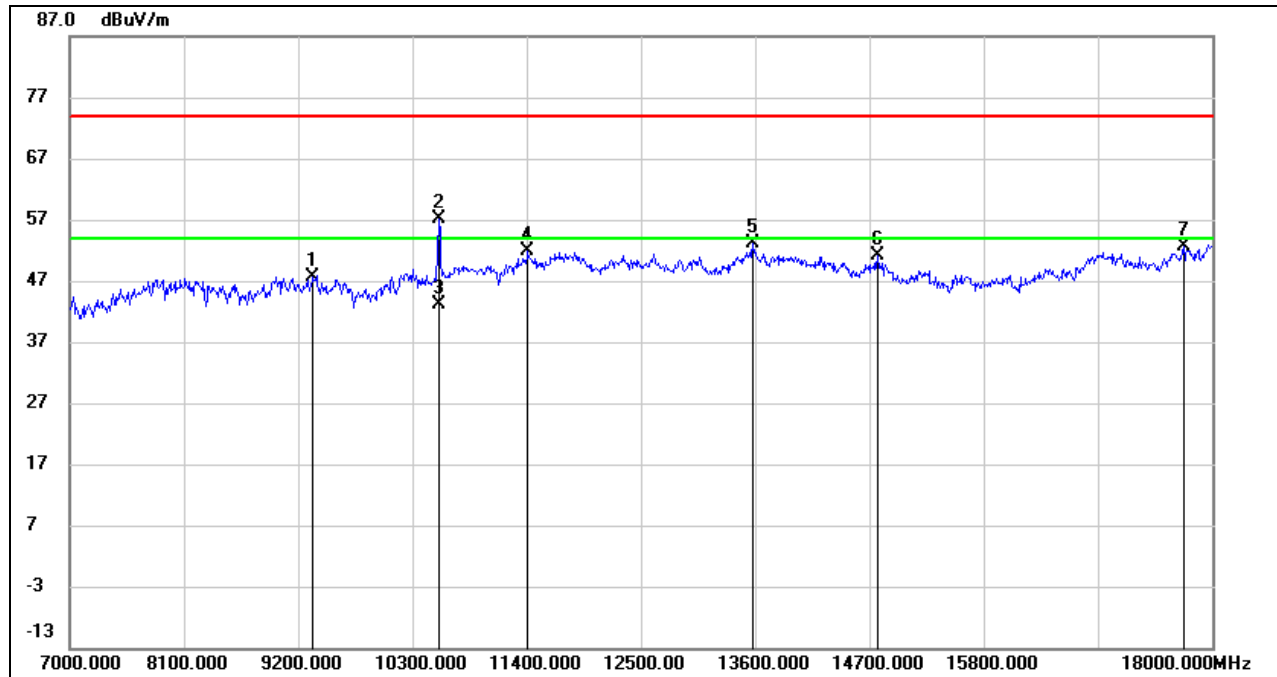
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 9343.000           | 37.22             | 10.42             | 47.64              | 74.00             | -26.36         | peak   |
| 2   | 10553.000          | 44.13             | 13.07             | 57.20              | 74.00             | -16.80         | peak   |
| 3   | 10553.000          | 30.04             | 13.07             | 43.11              | 54.00             | -10.89         | AVG    |
| 4   | 11411.000          | 35.38             | 16.38             | 51.76              | 74.00             | -22.24         | peak   |
| 5   | 13578.000          | 34.11             | 19.08             | 53.19              | 74.00             | -20.81         | peak   |
| 6   | 14777.000          | 33.60             | 17.54             | 51.14              | 74.00             | -22.86         | peak   |
| 7   | 17725.000          | 29.03             | 23.54             | 52.57              | 74.00             | -21.43         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

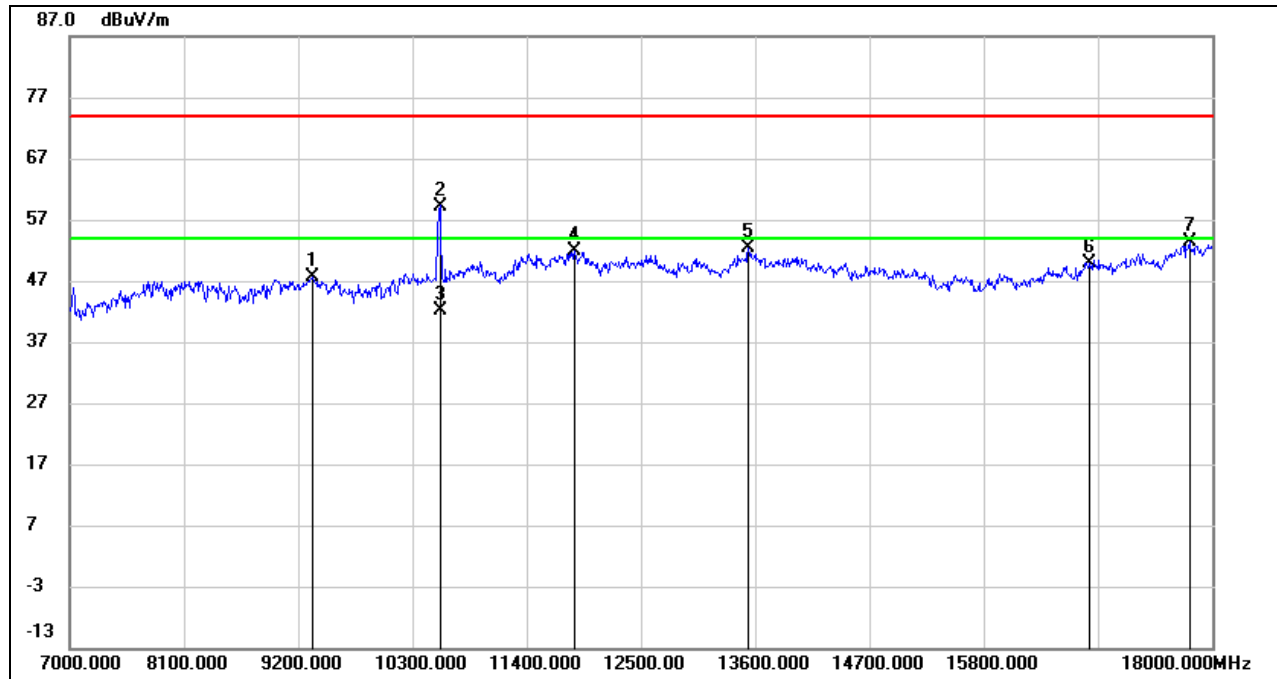
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



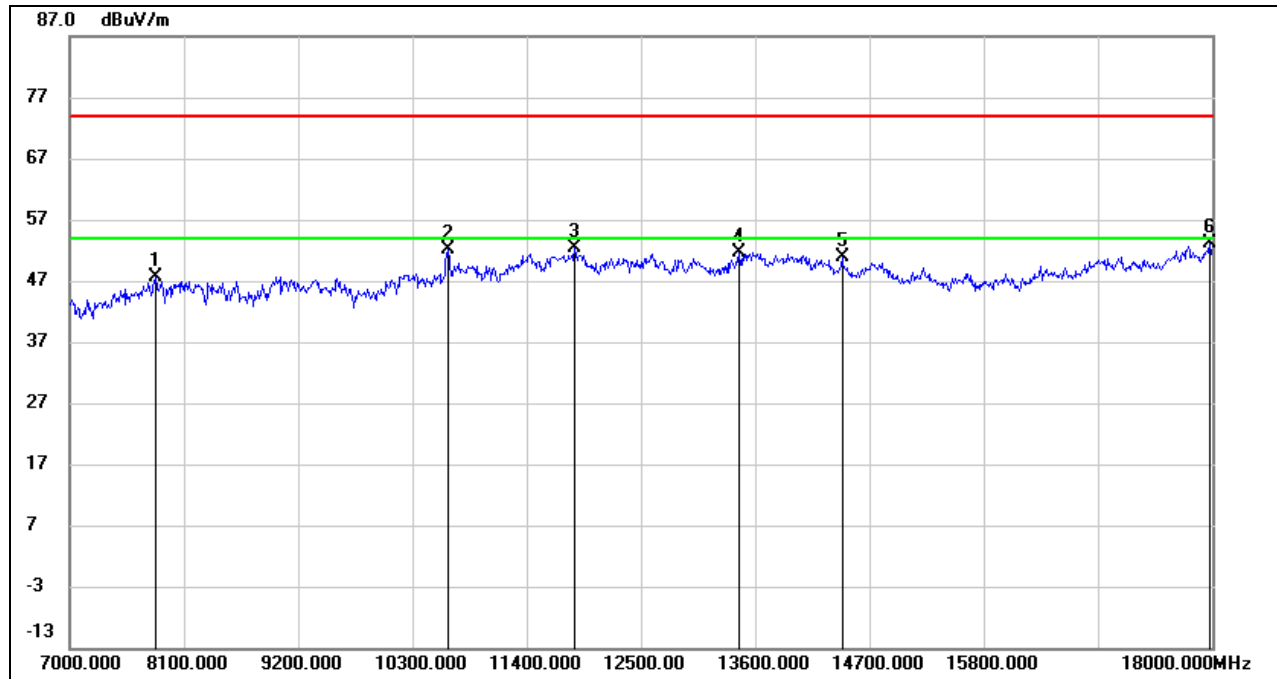
### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 9343.000        | 37.12          | 10.42          | 47.54           | 74.00          | -26.46      | peak   |
| 2   | 10564.000       | 46.13          | 13.12          | 59.25           | 74.00          | -14.75      | peak   |
| 3   | 10564.000       | 29.01          | 13.12          | 42.13           | 54.00          | -11.87      | AVG    |
| 4   | 11862.000       | 34.65          | 17.14          | 51.79           | 74.00          | -22.21      | peak   |
| 5   | 13534.000       | 33.14          | 19.16          | 52.30           | 74.00          | -21.70      | peak   |
| 6   | 16823.000       | 31.02          | 18.96          | 49.98           | 74.00          | -24.02      | peak   |
| 7   | 17780.000       | 29.39          | 24.02          | 53.41           | 74.00          | -20.59      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

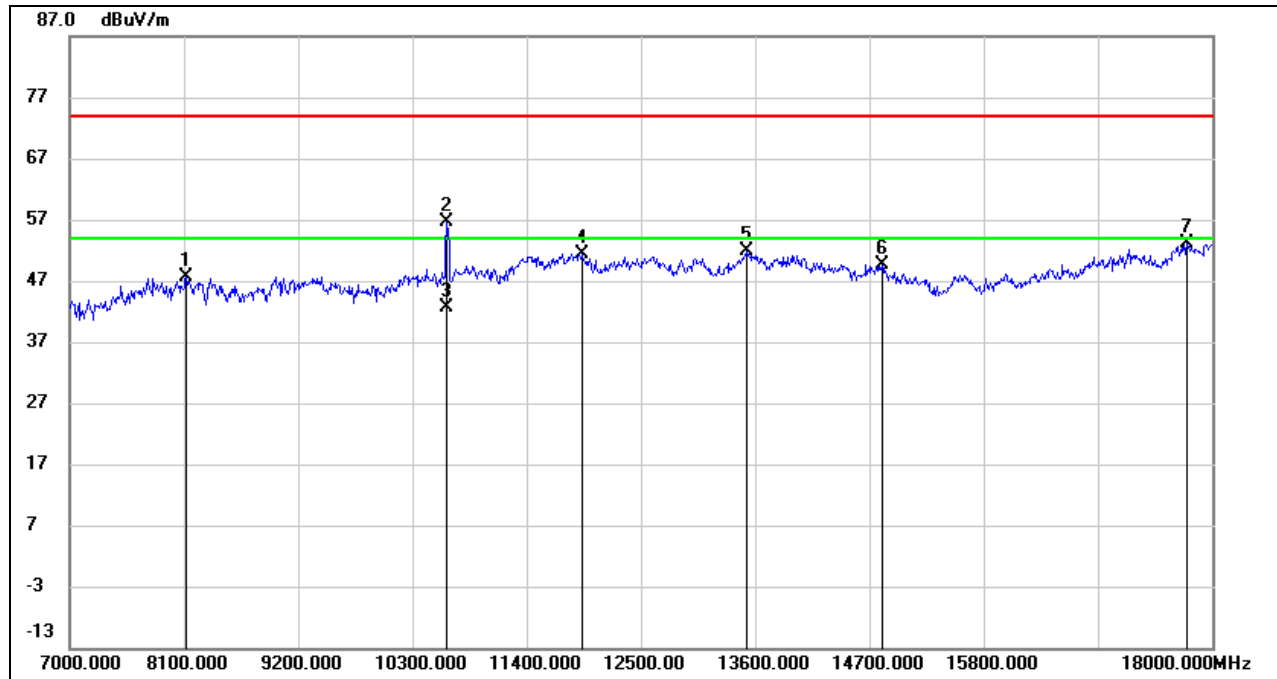
### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7825.000        | 38.93          | 8.59           | 47.52           | 74.00          | -26.48      | peak   |
| 2   | 10641.000       | 38.67          | 13.39          | 52.06           | 54.00          | -1.94       | CAV    |
| 3   | 11862.000       | 35.12          | 17.14          | 52.26           | 74.00          | -21.74      | peak   |
| 4   | 13446.000       | 32.50          | 19.06          | 51.56           | 74.00          | -22.44      | peak   |
| 5   | 14436.000       | 33.13          | 17.81          | 50.94           | 74.00          | -23.06      | peak   |
| 6   | 17978.000       | 28.38          | 24.83          | 53.21           | 74.00          | -20.79      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8122.000           | 38.26             | 9.47              | 47.73              | 74.00             | -26.27         | peak   |
| 2   | 10630.000          | 43.34             | 13.35             | 56.69              | 74.00             | -17.31         | peak   |
| 3   | 10630.000          | 29.21             | 13.35             | 42.56              | 54.00             | -11.44         | AVG    |
| 4   | 11928.000          | 34.22             | 17.24             | 51.46              | 74.00             | -22.54         | peak   |
| 5   | 13512.000          | 32.69             | 19.20             | 51.89              | 74.00             | -22.11         | peak   |
| 6   | 14821.000          | 32.27             | 17.36             | 49.63              | 74.00             | -24.37         | peak   |
| 7   | 17758.000          | 29.18             | 23.83             | 53.01              | 74.00             | -20.99         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

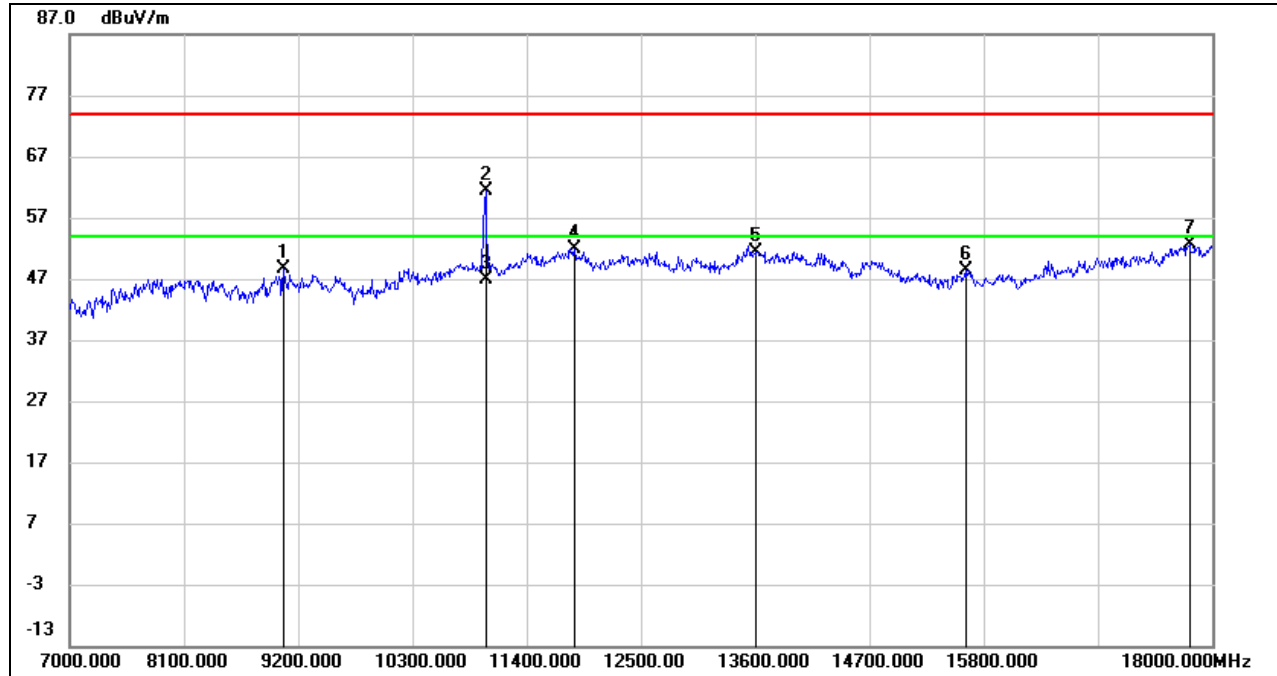
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2C BAND

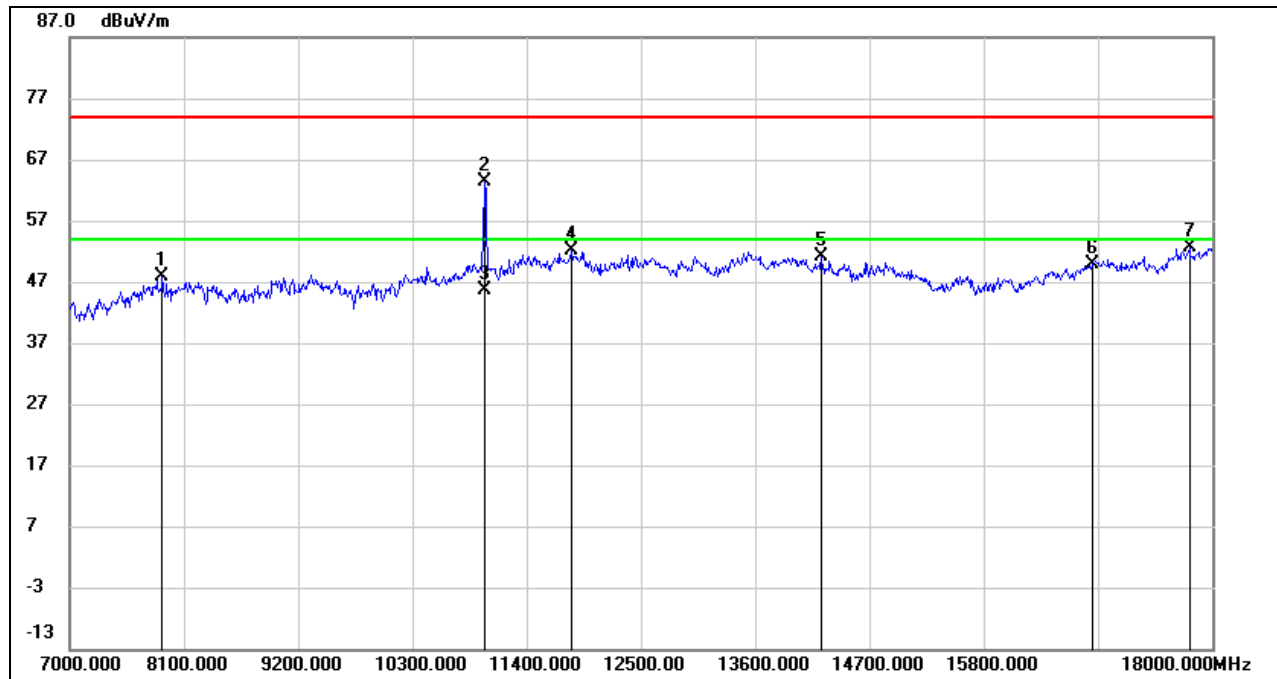
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 9057.000        | 38.51          | 10.18          | 48.69           | 74.00          | -25.31      | peak   |
| 2   | 11004.000       | 47.14          | 14.23          | 61.37           | 74.00          | -12.63      | peak   |
| 3   | 11004.000       | 32.55          | 14.23          | 46.78           | 54.00          | -7.22       | AVG    |
| 4   | 11862.000       | 34.85          | 17.14          | 51.99           | 74.00          | -22.01      | peak   |
| 5   | 13611.000       | 32.39          | 19.09          | 51.48           | 74.00          | -22.52      | peak   |
| 6   | 15624.000       | 32.81          | 15.64          | 48.45           | 74.00          | -25.55      | peak   |
| 7   | 17780.000       | 28.56          | 24.02          | 52.58           | 74.00          | -21.42      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7891.000        | 39.54          | 8.27           | 47.81           | 74.00          | -26.19      | peak   |
| 2   | 10993.000       | 49.21          | 14.20          | 63.41           | 74.00          | -10.59      | peak   |
| 3   | 10993.000       | 31.46          | 14.20          | 45.66           | 54.00          | -8.34       | AVG    |
| 4   | 11829.000       | 35.08          | 17.05          | 52.13           | 74.00          | -21.87      | peak   |
| 5   | 14238.000       | 32.27          | 18.95          | 51.22           | 74.00          | -22.78      | peak   |
| 6   | 16845.000       | 30.74          | 19.18          | 49.92           | 74.00          | -24.08      | peak   |
| 7   | 17780.000       | 28.51          | 24.02          | 52.53           | 74.00          | -21.47      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

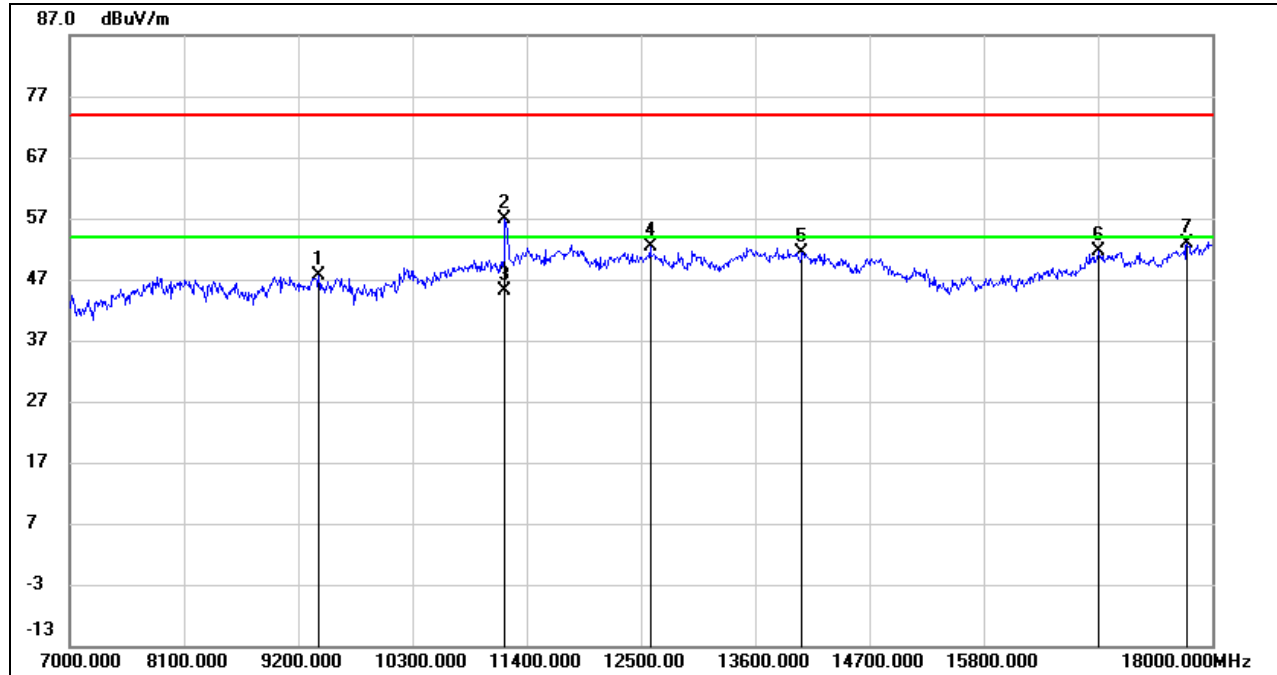
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 9398.000        | 36.83          | 10.78          | 47.61           | 74.00          | -26.39      | peak   |
| 2   | 11191.000       | 41.76          | 15.03          | 56.79           | 74.00          | -17.21      | peak   |
| 3   | 11191.000       | 30.12          | 15.03          | 45.15           | 54.00          | -8.85       | AVG    |
| 4   | 12588.000       | 35.24          | 17.10          | 52.34           | 74.00          | -21.66      | peak   |
| 5   | 14051.000       | 32.36          | 19.12          | 51.48           | 74.00          | -22.52      | peak   |
| 6   | 16911.000       | 31.93          | 19.71          | 51.64           | 74.00          | -22.36      | peak   |
| 7   | 17758.000       | 29.03          | 23.83          | 52.86           | 74.00          | -21.14      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

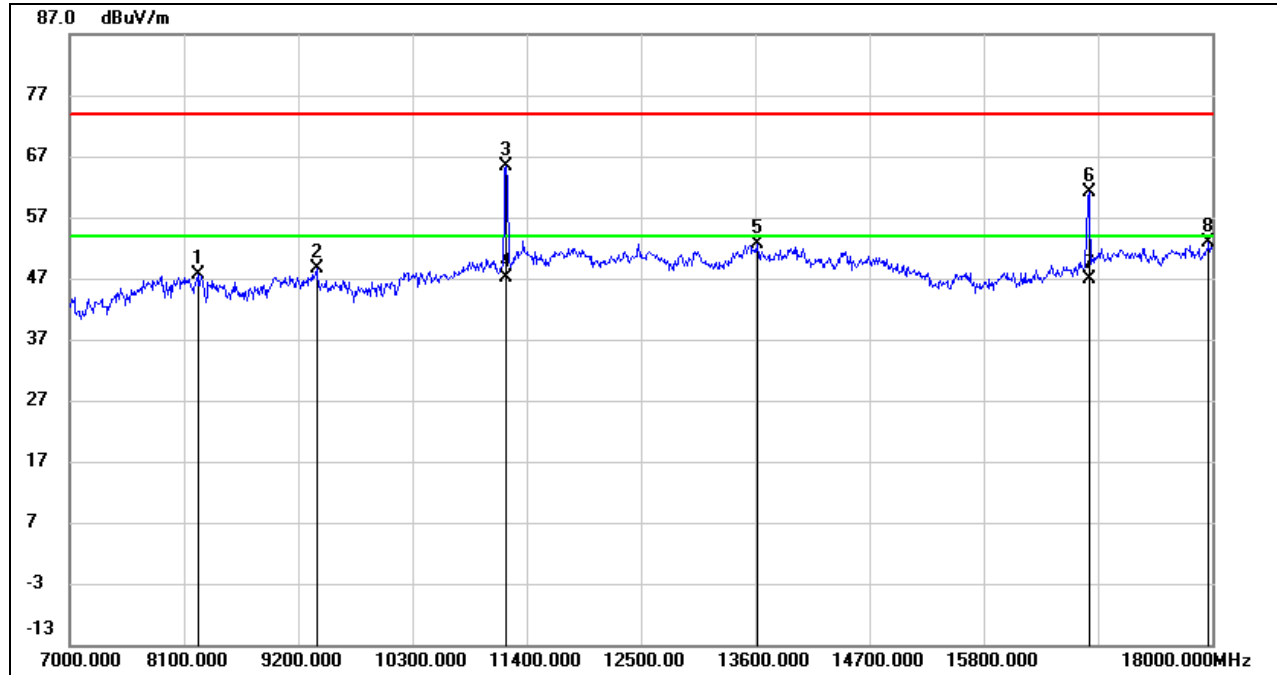
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

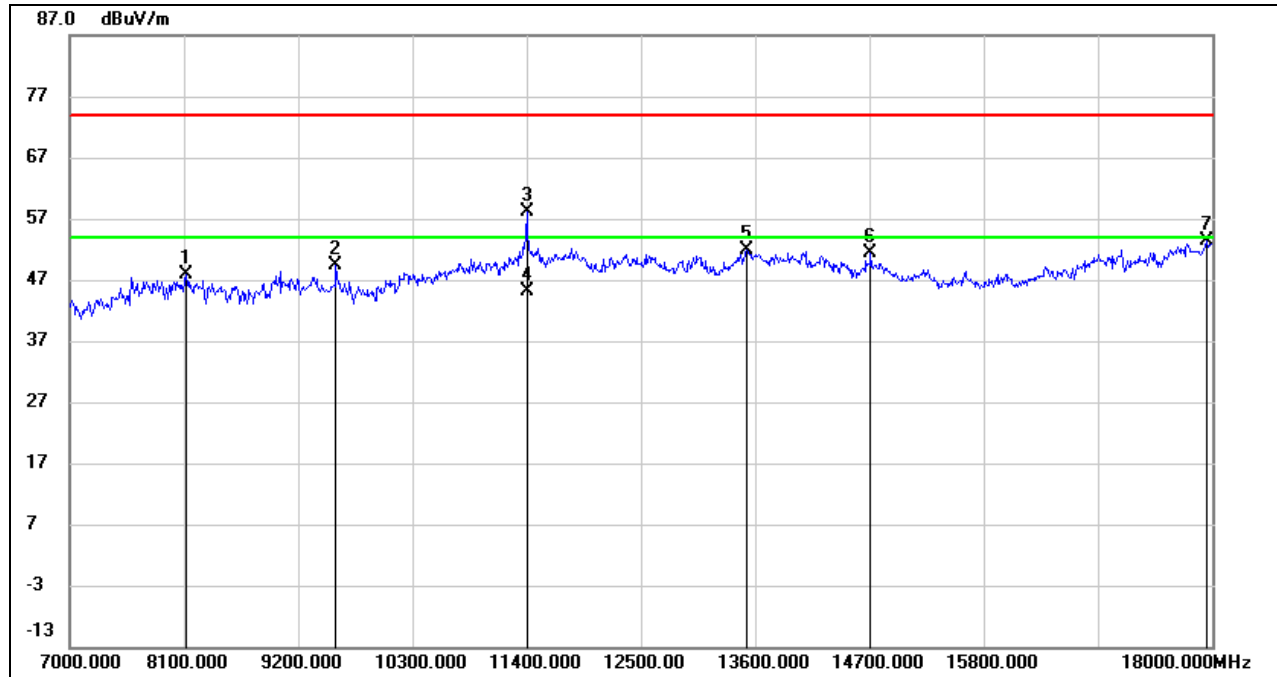
### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8232.000        | 38.42          | 9.13           | 47.55           | 74.00          | -26.45      | peak   |
| 2   | 9376.000        | 38.03          | 10.64          | 48.67           | 74.00          | -25.33      | peak   |
| 3   | 11202.000       | 50.38          | 15.06          | 65.44           | 74.00          | -8.56       | peak   |
| 4   | 11202.000       | 32.09          | 15.06          | 47.15           | 54.00          | -6.85       | AVG    |
| 5   | 13622.000       | 33.41          | 19.13          | 52.54           | 74.00          | -21.46      | peak   |
| 6   | 16812.000       | 42.21          | 18.85          | 61.06           | 74.00          | -12.94      | peak   |
| 7   | 16812.000       | 28.14          | 18.85          | 46.99           | 54.00          | -7.01       | AVG    |
| 8   | 17967.000       | 28.09          | 24.75          | 52.84           | 74.00          | -21.16      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

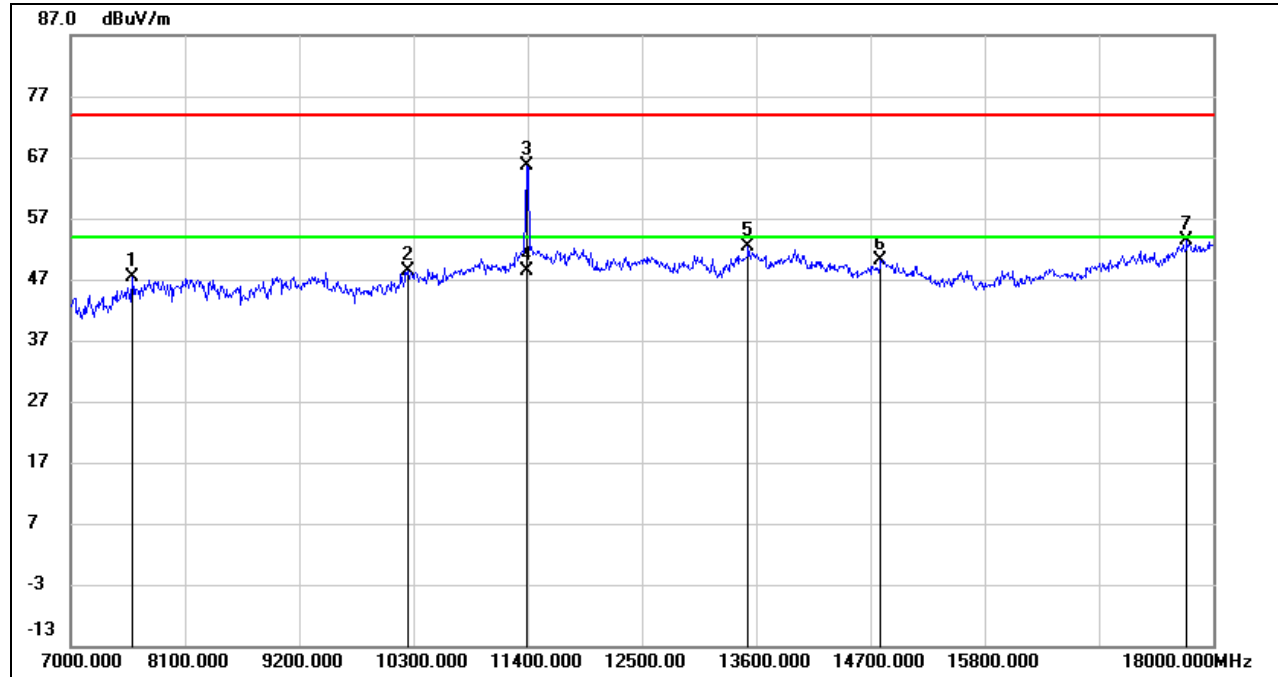


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8122.000        | 38.33          | 9.47           | 47.80           | 74.00          | -26.20      | peak   |
| 2   | 9563.000        | 38.61          | 10.82          | 49.43           | 74.00          | -24.57      | peak   |
| 3   | 11400.000       | 41.86          | 16.38          | 58.24           | 74.00          | -15.76      | peak   |
| 4   | 11400.000       | 28.85          | 16.38          | 45.23           | 54.00          | -8.77       | AVG    |
| 5   | 13523.000       | 32.72          | 19.18          | 51.90           | 74.00          | -22.10      | peak   |
| 6   | 14711.000       | 33.84          | 17.48          | 51.32           | 74.00          | -22.68      | peak   |
| 7   | 17945.000       | 28.70          | 24.61          | 53.31           | 74.00          | -20.69      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

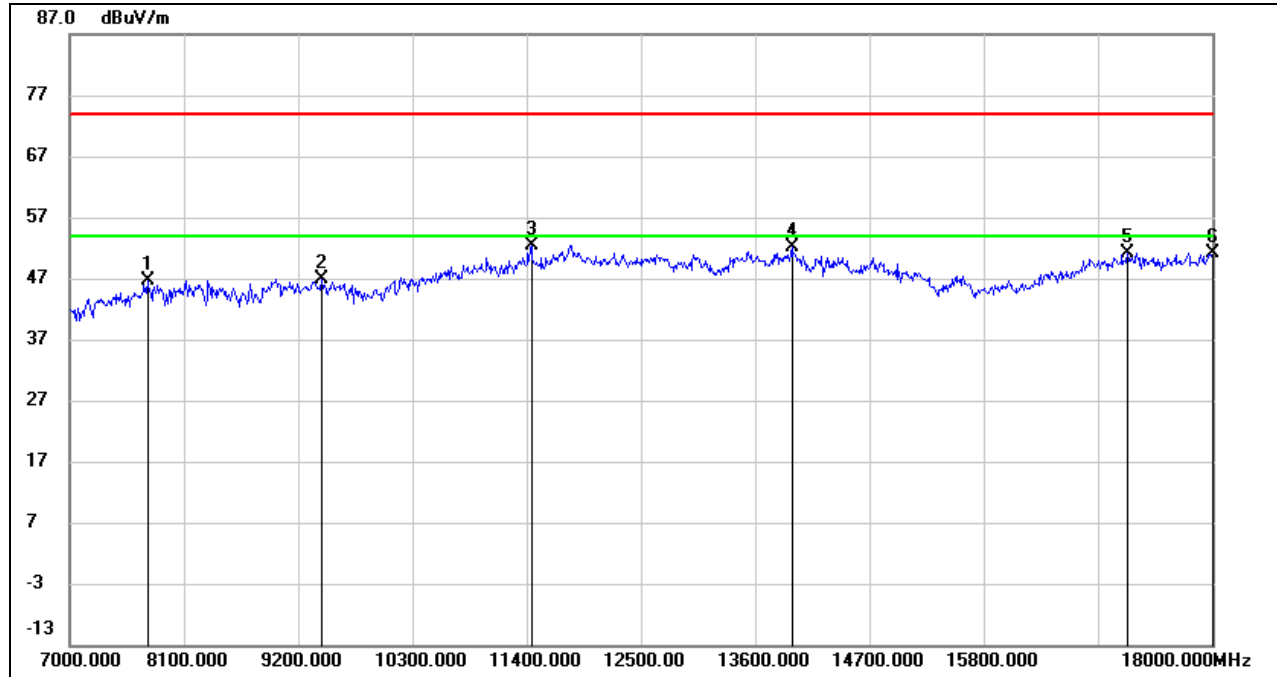


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7594.000        | 40.00          | 7.30           | 47.30           | 74.00          | -26.70      | peak   |
| 2   | 10245.000       | 36.09          | 12.18          | 48.27           | 74.00          | -25.73      | peak   |
| 3   | 11389.000       | 49.32          | 16.26          | 65.58           | 74.00          | -8.42       | peak   |
| 4   | 11389.000       | 32.24          | 16.26          | 48.50           | 54.00          | -5.50       | AVG    |
| 5   | 13523.000       | 33.12          | 19.18          | 52.30           | 74.00          | -21.70      | peak   |
| 6   | 14799.000       | 32.57          | 17.56          | 50.13           | 74.00          | -23.87      | peak   |
| 7   | 17747.000       | 29.74          | 23.74          | 53.48           | 74.00          | -20.52      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## STRADDLE CHANNEL 144

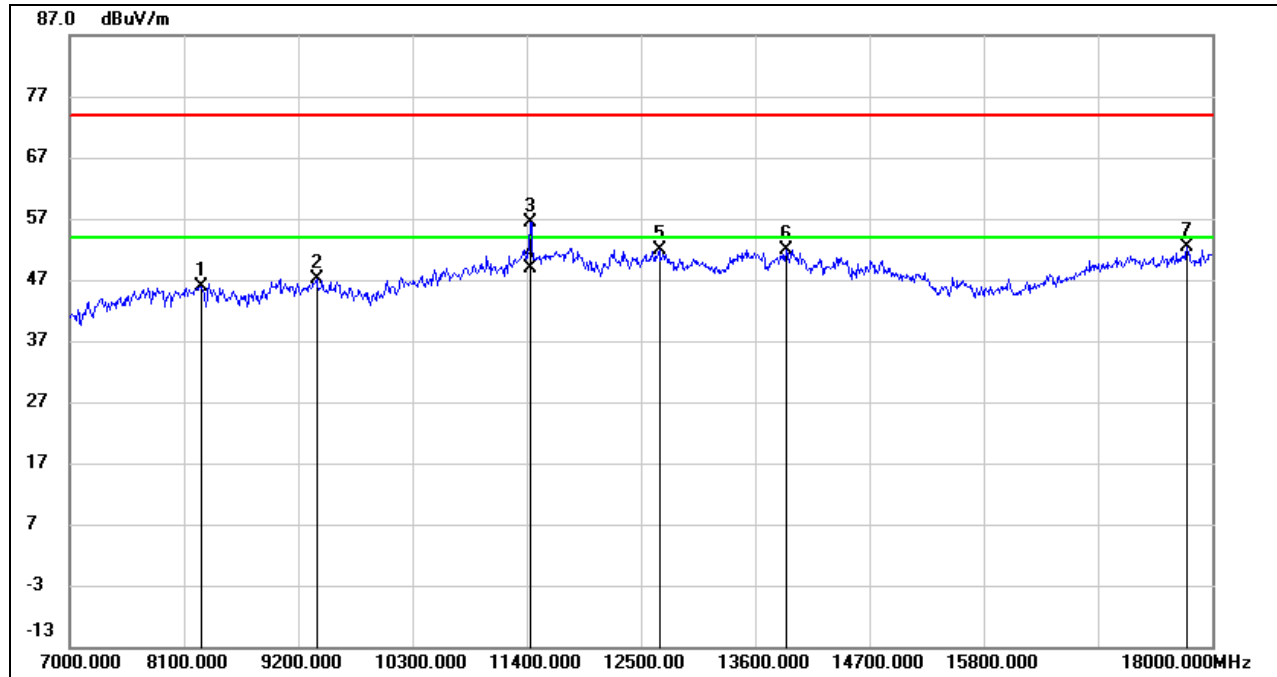
### HARMONICS AND SPURIOUS EMISSIONS (HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7748.000        | 39.29          | 7.40           | 46.69           | 74.00          | -27.31      | peak   |
| 2   | 9431.000        | 36.69          | 10.20          | 46.89           | 74.00          | -27.11      | peak   |
| 3   | 11444.000       | 36.43          | 15.97          | 52.40           | 74.00          | -21.60      | peak   |
| 4   | 13952.000       | 33.42          | 18.61          | 52.03           | 74.00          | -21.97      | peak   |
| 5   | 17186.000       | 31.45          | 19.65          | 51.10           | 74.00          | -22.90      | peak   |
| 6   | 18000.000       | 27.87          | 23.37          | 51.24           | 74.00          | -22.76      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (VERTICAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8265.000           | 37.54             | 8.45              | 45.99              | 74.00             | -28.01         | peak   |
| 2   | 9376.000           | 37.20             | 9.99              | 47.19              | 74.00             | -26.81         | peak   |
| 3   | 11433.000          | 40.52             | 15.95             | 56.47              | 74.00             | -17.53         | peak   |
| 4   | 11433.000          | 33.02             | 15.95             | 48.97              | 54.00             | -5.03          | AVG    |
| 5   | 12676.000          | 35.03             | 16.79             | 51.82              | 74.00             | -22.18         | peak   |
| 6   | 13897.000          | 33.18             | 18.66             | 51.84              | 74.00             | -22.16         | peak   |
| 7   | 17758.000          | 29.98             | 22.42             | 52.40              | 74.00             | -21.60         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.

5. For the transmitting duration, please refer to clause 7.1.

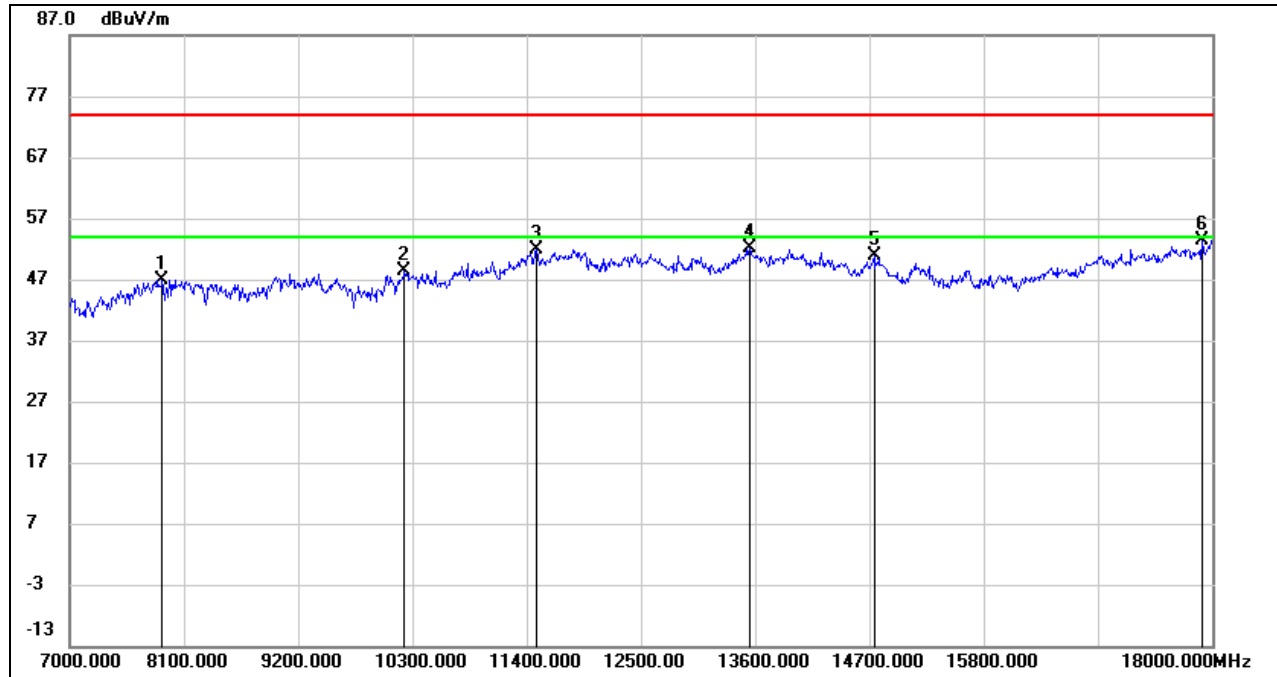
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

# UNII-3 BAND

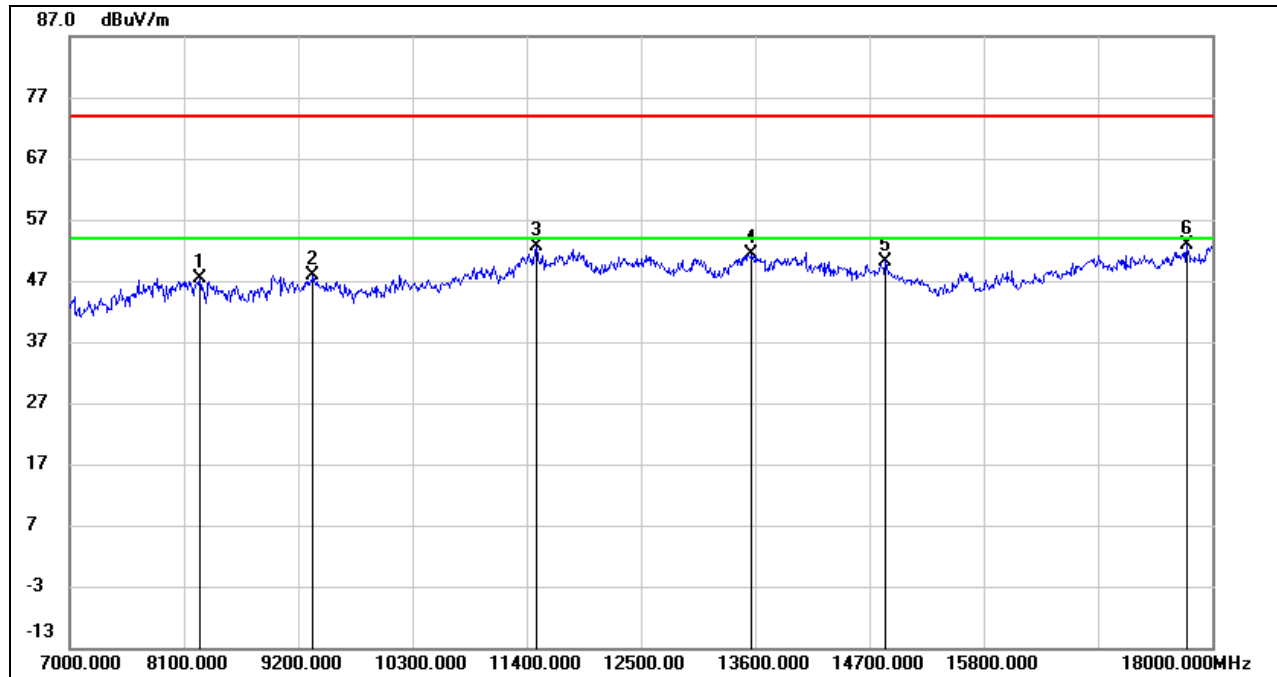
## HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 7891.000           | 38.72             | 8.27              | 46.99              | 74.00             | -27.01         | peak   |
| 2   | 10223.000          | 36.19             | 12.11             | 48.30              | 74.00             | -25.70         | peak   |
| 3   | 11488.000          | 35.56             | 16.44             | 52.00              | 74.00             | -22.00         | peak   |
| 4   | 13545.000          | 32.93             | 19.13             | 52.06              | 74.00             | -21.94         | peak   |
| 5   | 14744.000          | 33.39             | 17.50             | 50.89              | 74.00             | -23.11         | peak   |
| 6   | 17901.000          | 29.17             | 24.32             | 53.49              | 74.00             | -20.51         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

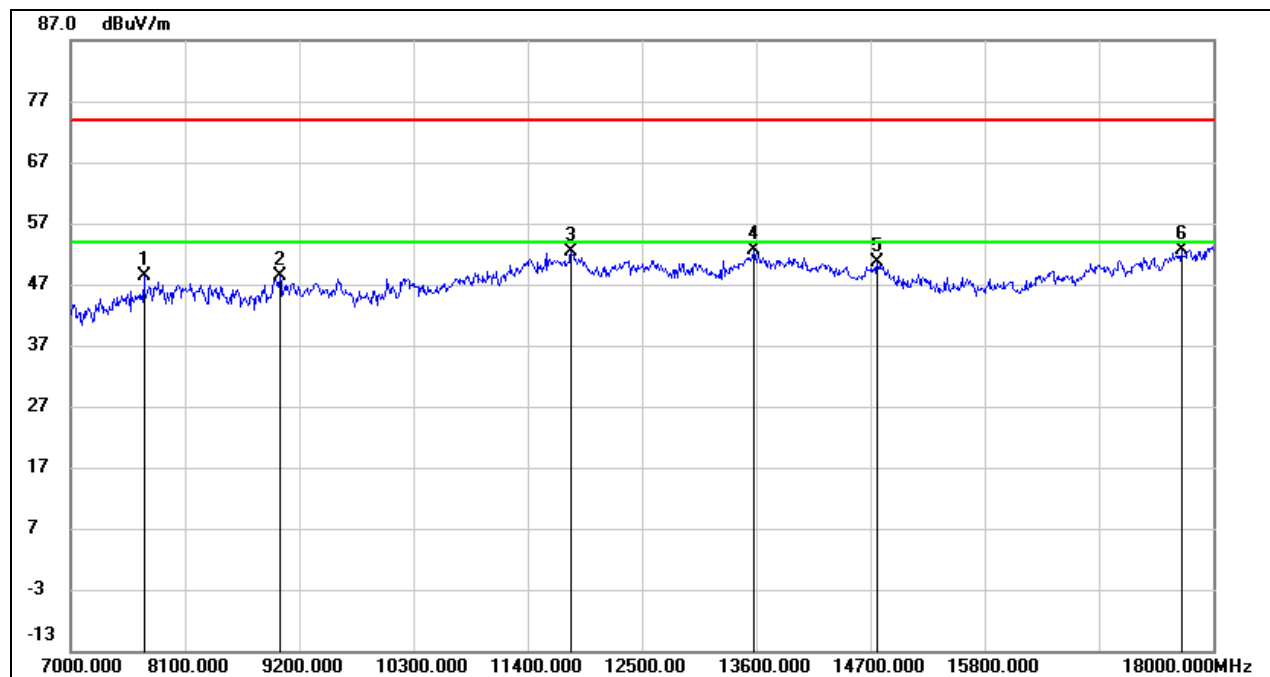
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8254.000        | 38.28          | 9.10           | 47.38           | 74.00          | -26.62      | peak   |
| 2   | 9343.000        | 37.48          | 10.42          | 47.90           | 74.00          | -26.10      | peak   |
| 3   | 11499.000       | 36.26          | 16.45          | 52.71           | 74.00          | -21.29      | peak   |
| 4   | 13567.000       | 32.29          | 19.10          | 51.39           | 74.00          | -22.61      | peak   |
| 5   | 14854.000       | 33.18          | 17.07          | 50.25           | 74.00          | -23.75      | peak   |
| 6   | 17758.000       | 28.95          | 23.83          | 52.78           | 74.00          | -21.22      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7704.000        | 40.66          | 7.82           | 48.48           | 74.00          | -25.52      | peak   |
| 2   | 9013.000        | 37.65          | 10.63          | 48.28           | 74.00          | -25.72      | peak   |
| 3   | 11818.000       | 35.27          | 17.02          | 52.29           | 74.00          | -21.71      | peak   |
| 4   | 13578.000       | 33.55          | 19.08          | 52.63           | 74.00          | -21.37      | peak   |
| 5   | 14766.000       | 33.07          | 17.53          | 50.60           | 74.00          | -23.40      | peak   |
| 6   | 17692.000       | 29.48          | 23.25          | 52.73           | 74.00          | -21.27      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.

2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.

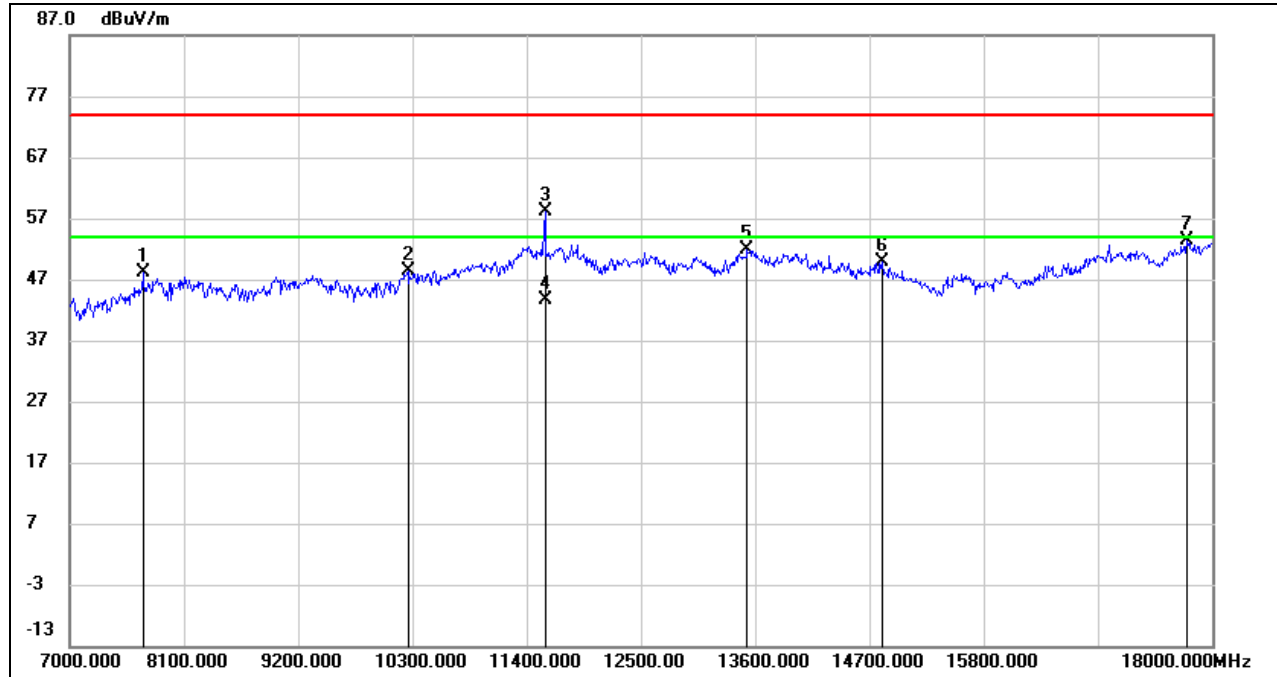
5. For the transmitting duration, please refer to clause 7.1.

6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.

7. Proper operation of the transmitter prior to adding the filter to the measurement chain.

8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

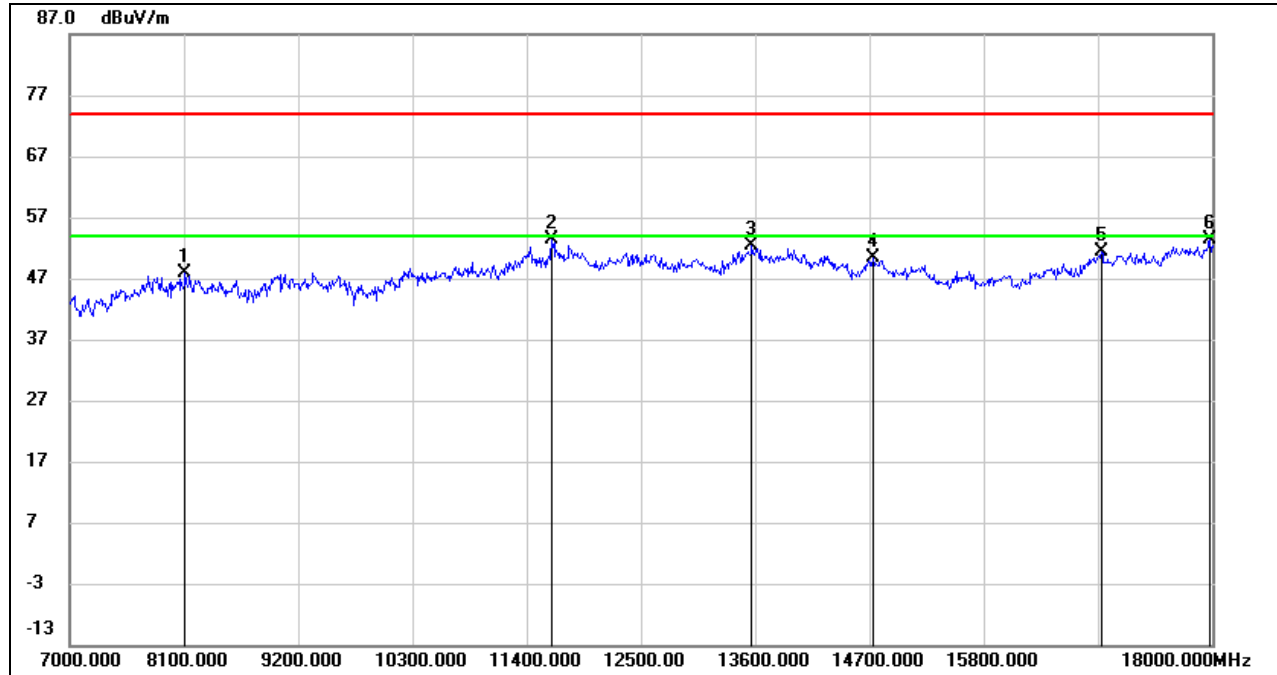
### HARMONICS AND SPURIOUS EMISSIONS (MID CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7704.000        | 40.37          | 7.82           | 48.19           | 74.00          | -25.81      | peak   |
| 2   | 10256.000       | 36.13          | 12.22          | 48.35           | 74.00          | -25.65      | peak   |
| 3   | 11576.000       | 41.76          | 16.49          | 58.25           | 74.00          | -15.75      | peak   |
| 4   | 11576.000       | 27.07          | 16.49          | 43.56           | 54.00          | -10.44      | AVG    |
| 5   | 13523.000       | 32.80          | 19.18          | 51.98           | 74.00          | -22.02      | peak   |
| 6   | 14821.000       | 32.61          | 17.36          | 49.97           | 74.00          | -24.03      | peak   |
| 7   | 17758.000       | 29.49          | 23.83          | 53.32           | 74.00          | -20.68      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)

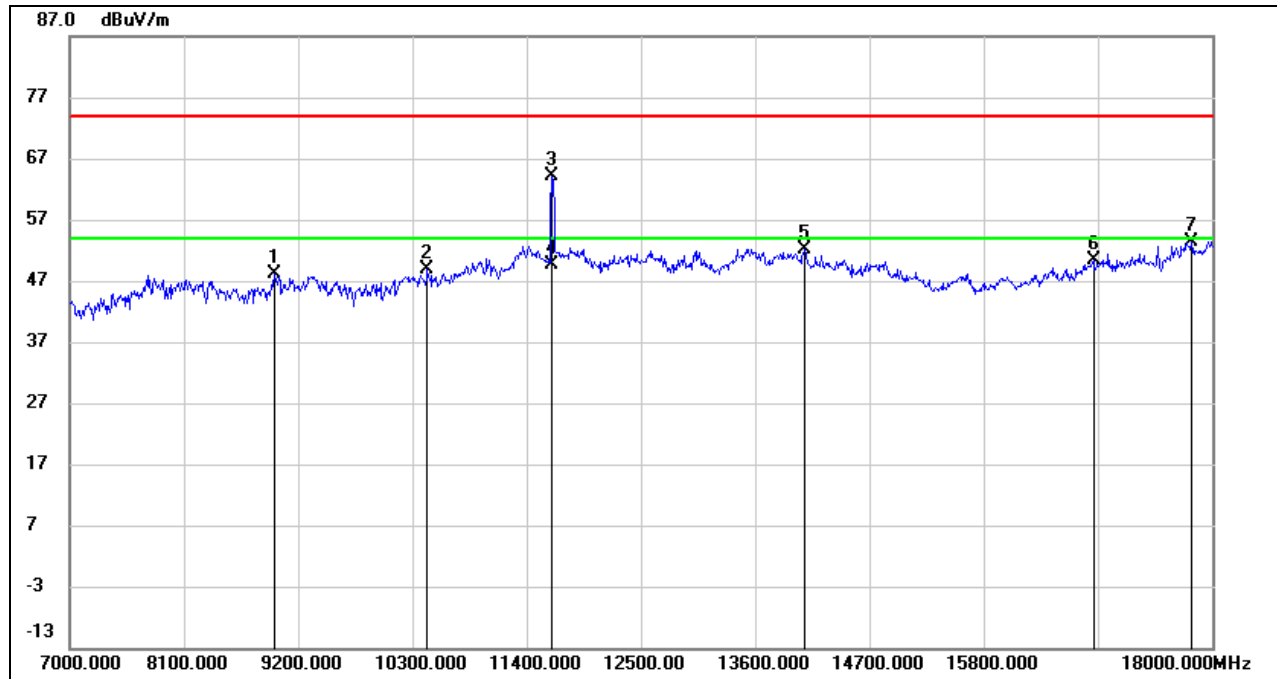


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8111.000        | 38.45          | 9.52           | 47.97           | 74.00          | -26.03      | peak   |
| 2   | 11642.000       | 36.75          | 16.75          | 53.50           | 54.00          | -0.50       | AVG    |
| 3   | 13567.000       | 33.35          | 19.10          | 52.45           | 74.00          | -21.55      | peak   |
| 4   | 14733.000       | 32.77          | 17.50          | 50.27           | 74.00          | -23.73      | peak   |
| 5   | 16933.000       | 31.66          | 19.67          | 51.33           | 74.00          | -22.67      | peak   |
| 6   | 17978.000       | 28.45          | 24.83          | 53.28           | 74.00          | -20.72      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8969.000        | 37.95          | 10.17          | 48.12           | 74.00          | -25.88      | peak   |
| 2   | 10443.000       | 36.08          | 12.80          | 48.88           | 74.00          | -25.12      | peak   |
| 3   | 11642.000       | 47.29          | 16.75          | 64.04           | 74.00          | -9.96       | peak   |
| 4   | 11642.000       | 32.92          | 16.75          | 49.67           | 54.00          | -4.33       | AVG    |
| 5   | 14073.000       | 33.17          | 19.01          | 52.18           | 74.00          | -21.82      | peak   |
| 6   | 16856.000       | 31.19          | 19.29          | 50.48           | 74.00          | -23.52      | peak   |
| 7   | 17802.000       | 29.10          | 24.19          | 53.29           | 74.00          | -20.71      | peak   |

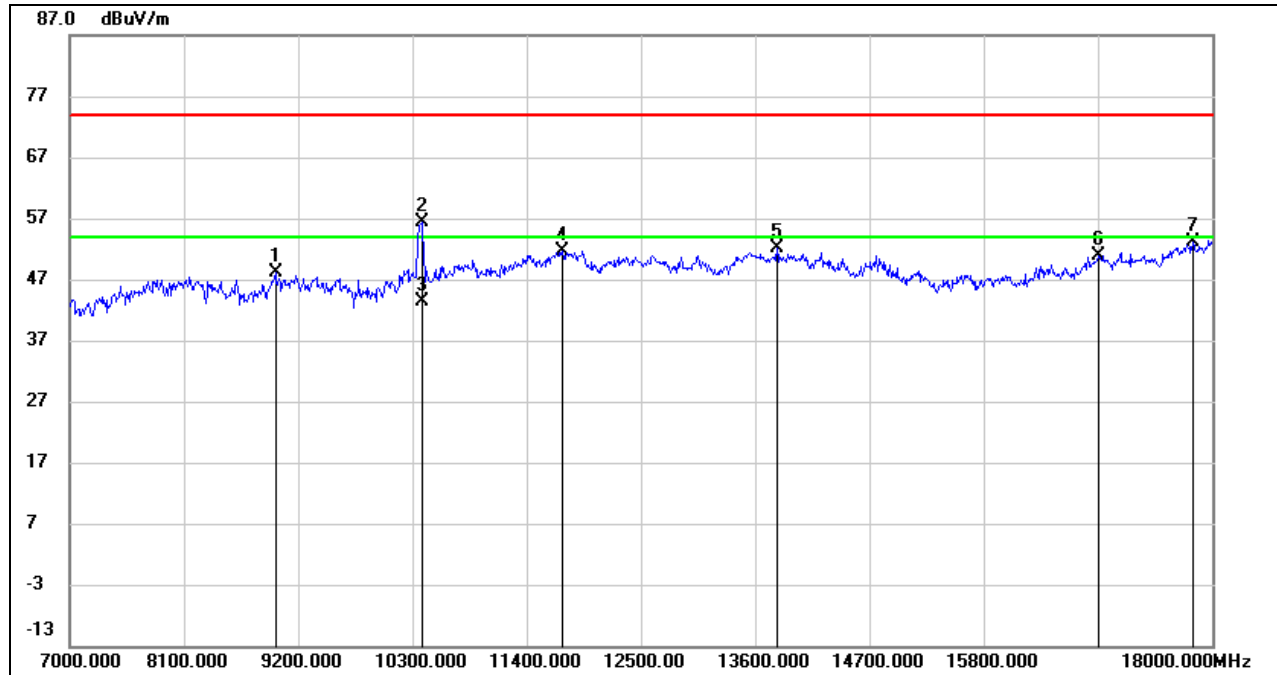
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.



### 8.3.3. 802.11n HT40 MODE

#### UNII-1 BAND

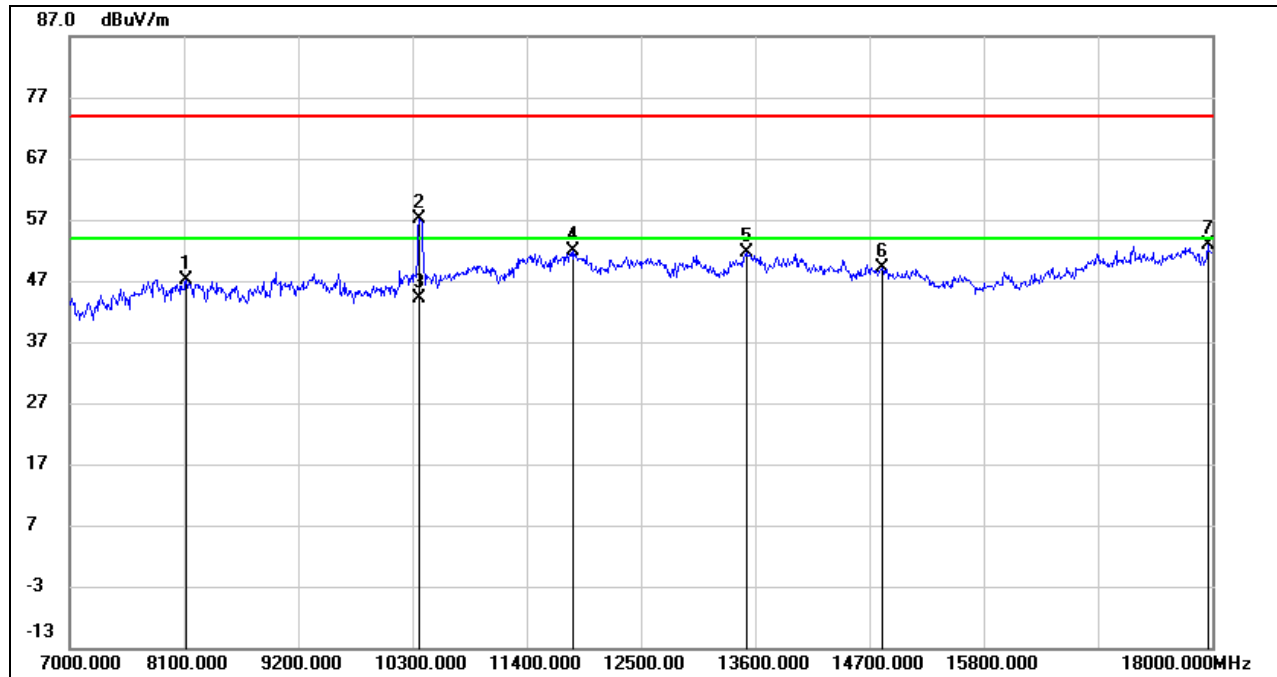
#### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency<br>(MHz) | Reading<br>(dBuV) | Correct<br>(dB/m) | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|-------------------|-------------------|--------------------|-------------------|----------------|--------|
| 1   | 8980.000           | 37.63             | 10.39             | 48.02              | 74.00             | -25.98         | peak   |
| 2   | 10388.000          | 43.70             | 12.70             | 56.40              | 74.00             | -17.60         | peak   |
| 3   | 10388.000          | 30.73             | 12.70             | 43.43              | 54.00             | -10.57         | AVG    |
| 4   | 11741.000          | 34.60             | 17.05             | 51.65              | 74.00             | -22.35         | peak   |
| 5   | 13809.000          | 32.83             | 19.42             | 52.25              | 74.00             | -21.75         | peak   |
| 6   | 16900.000          | 31.13             | 19.73             | 50.86              | 74.00             | -23.14         | peak   |
| 7   | 17813.000          | 28.94             | 24.21             | 53.15              | 74.00             | -20.85         | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

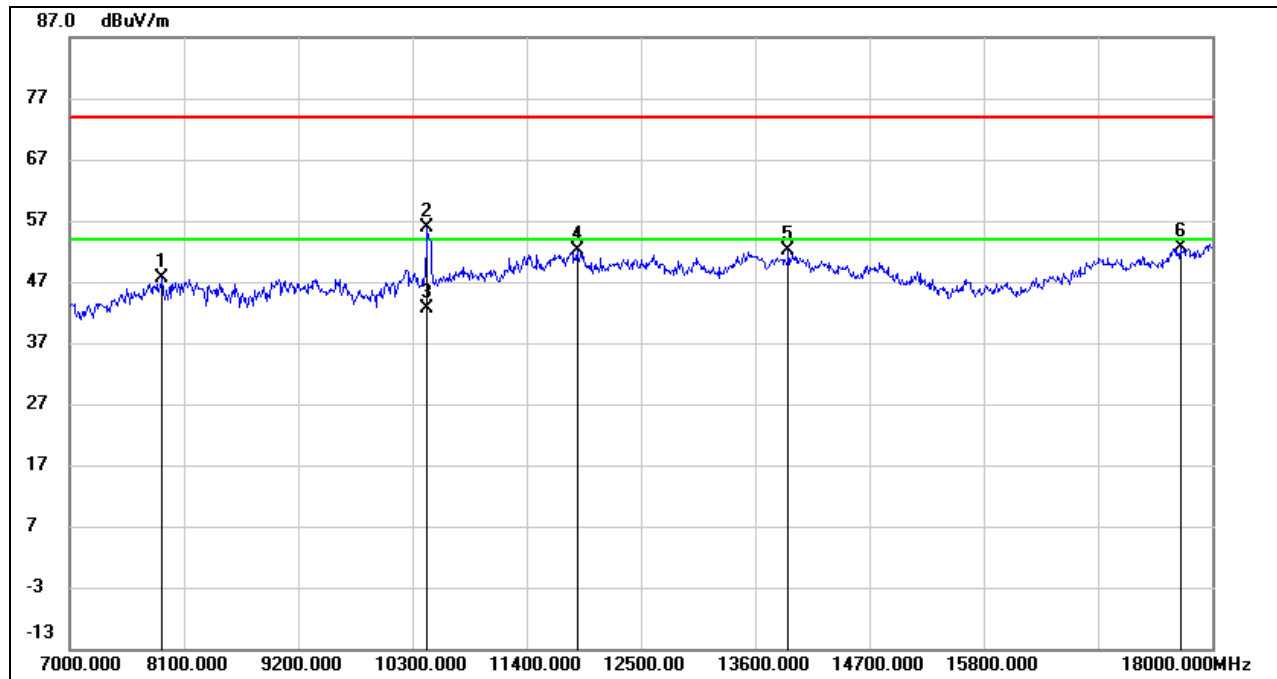
### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, VERTICAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 8122.000        | 37.77          | 9.47           | 47.24           | 74.00          | -26.76      | peak   |
| 2   | 10366.000       | 44.61          | 12.61          | 57.22           | 74.00          | -16.78      | peak   |
| 3   | 10366.000       | 31.64          | 12.61          | 44.25           | 54.00          | -9.75       | AVG    |
| 4   | 11851.000       | 34.73          | 17.11          | 51.84           | 74.00          | -22.16      | peak   |
| 5   | 13523.000       | 32.55          | 19.18          | 51.73           | 74.00          | -22.27      | peak   |
| 6   | 14821.000       | 31.67          | 17.36          | 49.03           | 74.00          | -24.97      | peak   |
| 7   | 17956.000       | 28.20          | 24.68          | 52.88           | 74.00          | -21.12      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

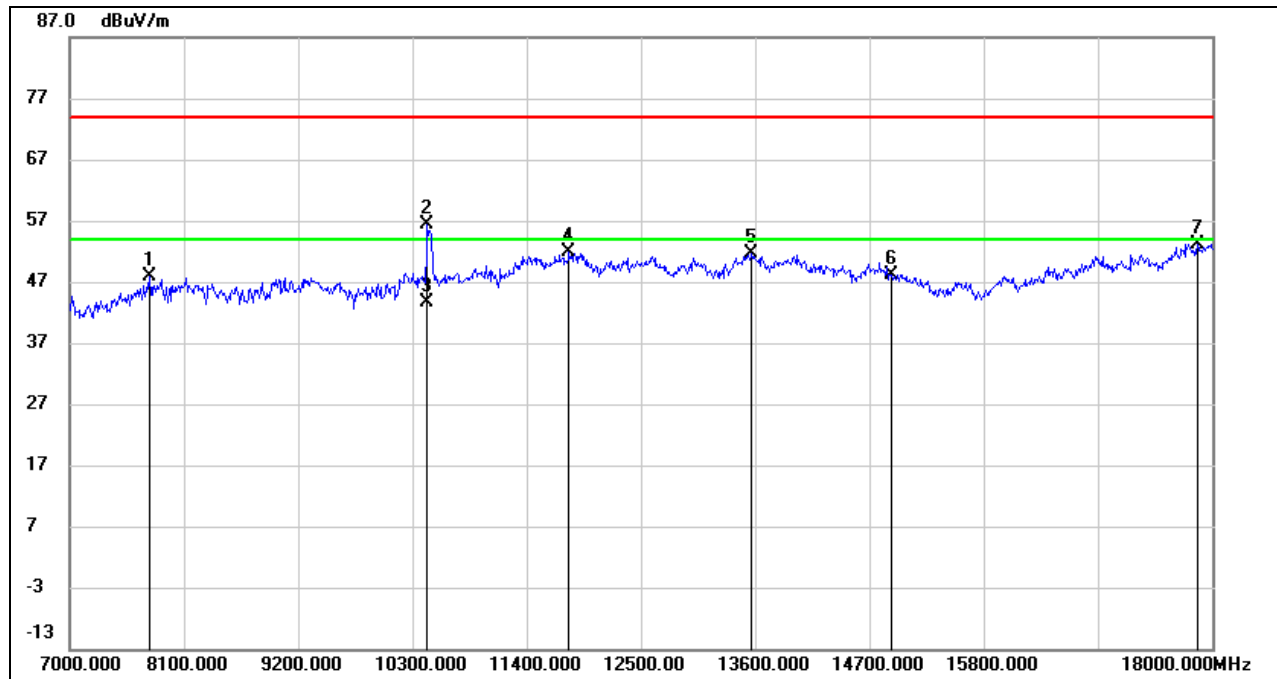
### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7891.000        | 39.31          | 8.27           | 47.58           | 74.00          | -26.42      | peak   |
| 2   | 10443.000       | 43.07          | 12.80          | 55.87           | 74.00          | -18.13      | peak   |
| 3   | 10443.000       | 29.75          | 12.80          | 42.55           | 54.00          | -11.45      | AVG    |
| 4   | 11884.000       | 34.93          | 17.20          | 52.13           | 74.00          | -21.87      | peak   |
| 5   | 13919.000       | 32.84          | 19.30          | 52.14           | 74.00          | -21.86      | peak   |
| 6   | 17692.000       | 29.39          | 23.25          | 52.64           | 74.00          | -21.36      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/Ton$ , where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

### HARMONICS AND SPURIOUS EMISSIONS (HIGH CHANNEL, VERTICAL)

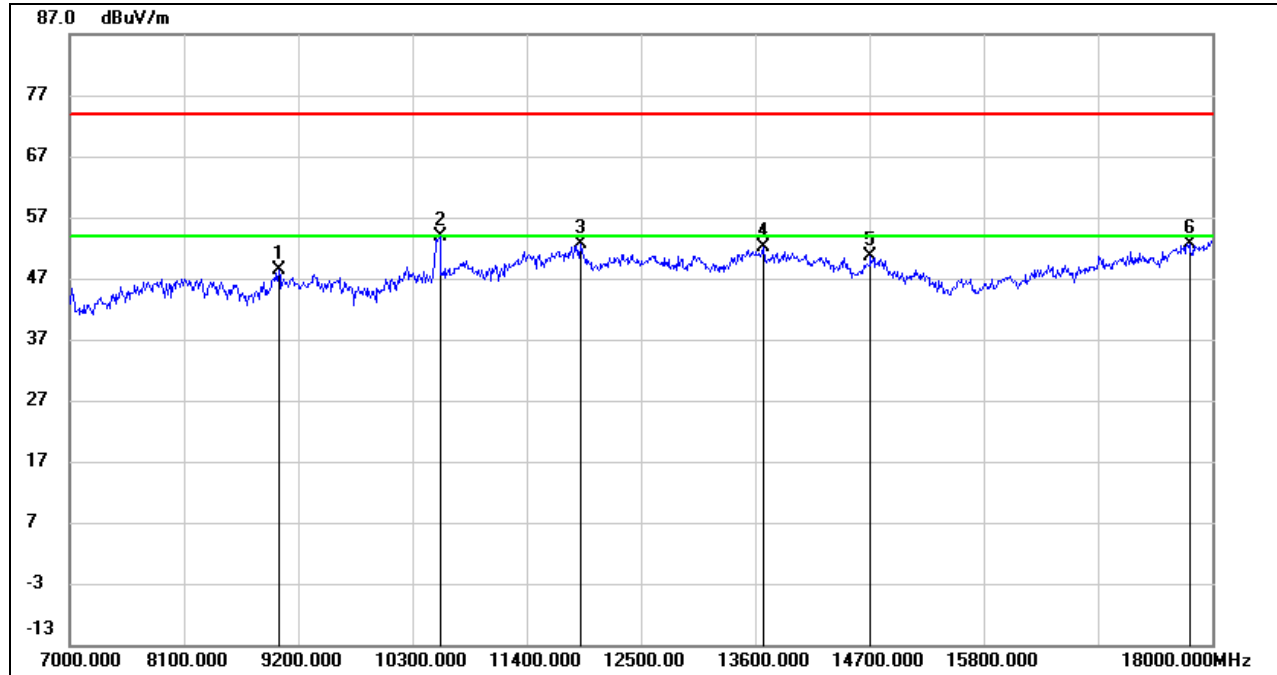


| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 7770.000        | 39.33          | 8.44           | 47.77           | 74.00          | -26.23      | peak   |
| 2   | 10443.000       | 43.58          | 12.80          | 56.38           | 74.00          | -17.62      | peak   |
| 3   | 10443.000       | 30.75          | 12.80          | 43.55           | 54.00          | -10.45      | AVG    |
| 4   | 11807.000       | 34.89          | 17.01          | 51.90           | 74.00          | -22.10      | peak   |
| 5   | 13567.000       | 32.44          | 19.10          | 51.54           | 74.00          | -22.46      | peak   |
| 6   | 14909.000       | 31.58          | 16.65          | 48.23           | 74.00          | -25.77      | peak   |
| 7   | 17857.000       | 28.87          | 24.26          | 53.13           | 74.00          | -20.87      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton, where: Ton is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.

## UNII-2A BAND

### HARMONICS AND SPURIOUS EMISSIONS (LOW CHANNEL, HORIZONTAL)



| No. | Frequency (MHz) | Reading (dBuV) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|----------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 9013.000        | 37.63          | 10.63          | 48.26           | 74.00          | -25.74      | peak   |
| 2   | 10564.000       | 40.83          | 13.12          | 53.95           | 74.00          | -20.05      | peak   |
| 3   | 11917.000       | 35.46          | 17.24          | 52.70           | 74.00          | -21.30      | peak   |
| 4   | 13677.000       | 32.66          | 19.39          | 52.05           | 74.00          | -21.95      | peak   |
| 5   | 14711.000       | 33.18          | 17.48          | 50.66           | 74.00          | -23.34      | peak   |
| 6   | 17780.000       | 28.71          | 24.02          | 52.73           | 74.00          | -21.27      | peak   |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG:  $VBW=1/T_{on}$ , where:  $T_{on}$  is the transmitting duration.  
5. For the transmitting duration, please refer to clause 7.1.  
6. Filter losses were only considered in the spurious frequency bands and the authorized band was not corrected for High Pass Filter losses.  
7. Proper operation of the transmitter prior to adding the filter to the measurement chain.  
8. Since non-restricted band peak emissions are less than the average limit, they also comply with the -27dBm/MHz (68.2dBuV/m) limit.