



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

**CERTIFICATION TEST REPORT**

*For*

**IP Camera**

**MODEL NUMBER: IP3M-943B, IP3M-943W, IP3M-943S, IPM-723B, IPM-723W,  
IPM-723S**

**FCC ID: ZZ2AMC018AMC020  
IC: 21923-AMC018020**

**REPORT NUMBER: 4788108769-2**

**ISSUE DATE: Nov. 14, 2017**

*Prepared for*

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Revision History

| Rev. | Issue Date | Revisions     | Revised By |
|------|------------|---------------|------------|
| --   | 11/14/2017 | Initial Issue |            |

| Summary of Test Results                                                                                   |                                           |                                                                                        |              |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------|--------------|
| Clause                                                                                                    | Test Items                                | FCC/IC Rules                                                                           | Test Results |
| 1                                                                                                         | 6dB Bandwidth and 99% Bandwidth           | FCC 15.247 (a) (2)<br>RSS-247 Clause 5.2 (a)                                           | Complied     |
| 2                                                                                                         | Peak Conducted Output Power               | FCC 15.247 (b) (3)<br>RSS-247 Clause 5.4 (e)                                           | Complied     |
| 3                                                                                                         | Power Spectral Density                    | FCC 15.247 (e)<br>RSS-247 Clause 5.2 (b)                                               | Complied     |
| 4                                                                                                         | Conducted Bandedge and Spurious Emission  | FCC 15.247 (d)<br>RSS-247 Clause 5.5                                                   | Complied     |
| 5                                                                                                         | Radiated Bandedge and Spurious Emission   | FCC 15.247 (d)<br>FCC 15.209<br>FCC 15.205<br>RSS-247 Clause 5.5<br>RSS-GEN Clause 8.9 | Complied     |
| 6                                                                                                         | Conducted Emission Test For AC Power Port | FCC 15.207<br>RSS-GEN Clause 8.8                                                       | Complied     |
| 7                                                                                                         | Antenna Requirement                       | FCC 15.203<br>RSS-GEN Clause 8.3                                                       | Complied     |
| Remark: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device. |                                           |                                                                                        |              |

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**10. ANTENNA REQUIREMENTS .....117**

## 1. ATTESTATION OF TEST RESULTS

### Applicant Information

Company Name: Amcrest Technologies LLC  
Address: 16727 Park Row Dr.Houston, TX 77084

### Manufacturer Information

Company Name: Amcrest Technologies LLC  
Address: 16727 Park Row Dr.Houston, TX 77084

### EUT Description

Product Name IP Camera  
Brand Name AMCREST  
Model Name IP3M-943W  
Serial Number IP3M-943B;IP3M-943S;IPM-723B;IPM-723W;IPM-723S  
Model Difference Their electrical circuit design, layout, components used and internal wiring are identical, only the model name, color and selling area are different.  
Sample Status: Normal  
Sample ID: 11604  
Sample Received: August 11, 2017  
Date Tested: September 11, 2017 ~ September 22, 2017

| APPLICABLE STANDARDS     |              |
|--------------------------|--------------|
| STANDARD                 | TEST RESULTS |
| CFR 47 Part 15 Subpart C | PASS         |
| ISED RSS-247 Issue 2     | PASS         |
| ISED RSS-GEN Issue 4     | PASS         |

Tested By :

*Miller Ma*

Check By:

*Shawn Wen*

Miller Ma  
Engineer  
Approved By:

Shawn Wen  
Laboratory Leader

*Stephen Guo*

Stephen Guo  
Laboratory Manager

## 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 558074 D01 DTS Meas Guidance v04, 414788 D01 Radiated Test Site v01, FCC CFR 47 Part 2, FCC CFR 47 Part 15, ANSI C63.10-2013, RSS-GEN Issue 4, and RSS-247 Issue 2.

## 3. FACILITIES AND ACCREDITATION

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Location             | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Address                   | Building 10, Innovation Technology Park, Song Shan Lake Hi tech Development Zone, Dongguan, 523808, China                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Accreditation Certificate | UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing. The Certificate Registration Number is 4102.01.<br>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been registered and fully described in a report filed with the FCC (Federal Communications Commission). The Designation Number is CN1187.<br>UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch. EMC Laboratory has been registered and fully described in a report filed with Industry Canada. The Company Number is 21320. |

Note: 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.

## 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         |
|-----------------------------------------------------------------------------------------------------------------------------------------------|---------------------|
| Uncertainty for Conduction emission test                                                                                                      | 2.90dB              |
| Uncertainty for Radiation Emission test(include Fundamental emission)<br>(9KHz-30MHz)                                                         | 2.00dB              |
| Uncertainty for Radiation Emission test(include Fundamental emission)<br>(30MHz-1GHz)                                                         | 4.52dB              |
| Uncertainty for Radiation Emission test<br>(1GHz to 26GHz)( include Fundamental emission)                                                     | 5.04dB(1-6GHz)      |
|                                                                                                                                               | 5.30dB (6GHz-18Gz)  |
|                                                                                                                                               | 5.23dB (18GHz-26Gz) |
| 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

|                     |                                                                                                                                                        |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Equipment           | IP Camera                                                                                                                                              |
| Model Name          | IP3M-943W                                                                                                                                              |
| Tested M/N          | IP3M-943S                                                                                                                                              |
| Series M/N          | IP3M-943B, IP3M-943S, IPM-723B, IPM-723W, IPM-723S                                                                                                     |
| Model Difference    | Their electrical circuit design, layout, components used and internal wiring are identical, only the model name, color and selling area are different. |
| Radio Technology    | IEEE802.11b/g/n HT20/n HT40                                                                                                                            |
| Operation frequency | IEEE 802.11b: 2412MHz—2462MHz<br>IEEE 802.11g: 2412MHz—2462MHz<br>IEEE 802.11n HT20: 2412MHz—2462MHz<br>IEEE 802.11n HT40: 2422MHz—2452MHz             |
| Modulation          | IEEE 802.11b: DBPSK, DQPSK and CCK and DSSS<br>IEEE 802.11g: BPSK, QPSK, 16QAM, 64QAM and OFDM<br>IEEE 802.11n HT20: OFDM<br>IEEE 802.11n HT40: OFDM   |
| Power Adapter       | Model: NBS24J120200HU                                                                                                                                  |
|                     | INPUT: 100-240V~, 50/60Hz, 0.6A<br>OUTPUT: 12.0V/2A                                                                                                    |

### 5.2. MAXIMUM OUTPUT POWER

| Frequency Range (MHz) | Number of Transmit Chains (NTX) | IEE Std. 802.11  | Frequency (MHz) | Channel Number | Max PK Conducted Power (dBm) |
|-----------------------|---------------------------------|------------------|-----------------|----------------|------------------------------|
| 2412-2462             | 1                               | IEEE 802.11b     | 2412-2462       | 01-11[11]      | 18.67                        |
| 2412-2462             | 1                               | IEEE 802.11g     | 2412-2462       | 01-11[11]      | 22.95                        |
| 2412-2462             | 1                               | IEEE 802.11nHT20 | 2412-2462       | 01-11[11]      | 23.04                        |
| 2422-2452             | 1                               | IEEE 802.11nHT40 | 2422-2452       | 03-09 [7]      | 23.26                        |

### 5.3. CHANNEL LIST

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 01      | 2412            | 04      | 2427            | 07      | 2442            | 10      | 2457            |
| 02      | 2417            | 05      | 2432            | 08      | 2447            | 11      | 2462            |
| 03      | 2422            | 06      | 2437            | 09      | 2452            |         |                 |

#### 5.4. TEST CHANNEL CONFIGURATION

| Test Mode         | Test Channel (MHz) |
|-------------------|--------------------|
| IEEE 802.11b      | LCH :CH01 2412     |
|                   | MCH: CH06 2437     |
|                   | HCH: CH11 2462     |
| IEEE 802.11g      | LCH :CH01 2412     |
|                   | MCH: CH06 2437     |
|                   | HCH: CH11 2462     |
| IEEE 802.11n HT20 | LCH :CH01 2412     |
|                   | MCH: CH06 2437     |
|                   | HCH: CH11 2462     |
| IEEE 802.11n HT40 | LCH :CH03 2422     |
|                   | MCH: CH06 2437     |
|                   | HCH: CH09 2452     |

#### 5.5. THE WORSE CASE CONFIGURATIONS

| Test Software Version | SecureCRT        |                          |
|-----------------------|------------------|--------------------------|
| Test Mode             | Setting TX Power | Setting data rate (Mbps) |
| IEEE 802.11b          | N/A              | CCK_1Mbps                |
|                       | N/A              | CCK_1Mbps                |
|                       | N/A              | CCK_1Mbps                |
| IEEE 802.11g          | N/A              | NO HT_6Mbps              |
|                       | N/A              | NO HT_6Mbps              |
|                       | N/A              | NO HT_6Mbps              |
| IEEE 802.11n HT20     | N/A              | HT20_MCS_0               |
|                       | N/A              | HT20_MCS_0               |
|                       | N/A              | HT20_MCS_0               |
| IEEE 802.11n HT40     | N/A              | HT40_MCS_0               |
|                       | N/A              | HT40_MCS_0               |
|                       | N/A              | HT40_MCS_0               |

Remark: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device.

## 5.6. DESCRIPTION OF AVAILABLE ANTENNAS

| Ant. | Frequency (MHz) | Antenna Type   | Antenna Gain (dBi) |
|------|-----------------|----------------|--------------------|
| 1    | 2412-2462       | Dipole Antenna | 2                  |

| Test Mode         | Transmit and Receive Mode | Description                                            |
|-------------------|---------------------------|--------------------------------------------------------|
| IEEE 802.11b      | ☒1TX, 1RX                 | Chain 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11g      | ☒1TX, 1RX                 | Chain 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT20 | ☒1TX, 1RX                 | Chain 1 can be used as transmitting/receiving antenna. |
| IEEE 802.11n HT40 | ☒1TX, 1RX                 | Chain 1 can be used as transmitting/receiving antenna. |

## 5.7. TEST ENVIRONMENT

| Environment Parameter | Selected Values During Tests |             |
|-----------------------|------------------------------|-------------|
| Relative Humidity     | 55 ~ 65%                     |             |
| Atmospheric Pressure: | 1025Pa                       |             |
| Temperature           | TN                           | 23 ~ 28°C   |
| Voltage :             | VL                           | N/A         |
|                       | VN                           | AC120V/60Hz |
|                       | VH                           | N/A         |

Note: VL= Lower Extreme Test Voltage  
VN= Nominal Voltage  
VH= Upper Extreme Test Voltage  
TN= Normal Temperature

## 5.8. DESCRIPTION OF TEST SETUP

### SUPPORT EQUIPMENT

| Item | Equipment | Brand Name | Model Name | P/N           |
|------|-----------|------------|------------|---------------|
| 1    | Laptop    | ThinkPad   | T460S      | SL10K24796 JS |

### I/O CABLES

| Cable No | Port | Connector Type | Cable Type | Cable Length(m) | Remarks |
|----------|------|----------------|------------|-----------------|---------|
| 1        | RJ45 | RJ45           | NO         | 2               | N/A     |
| 1        | DC   | DC             | NO         | 3               | N/A     |

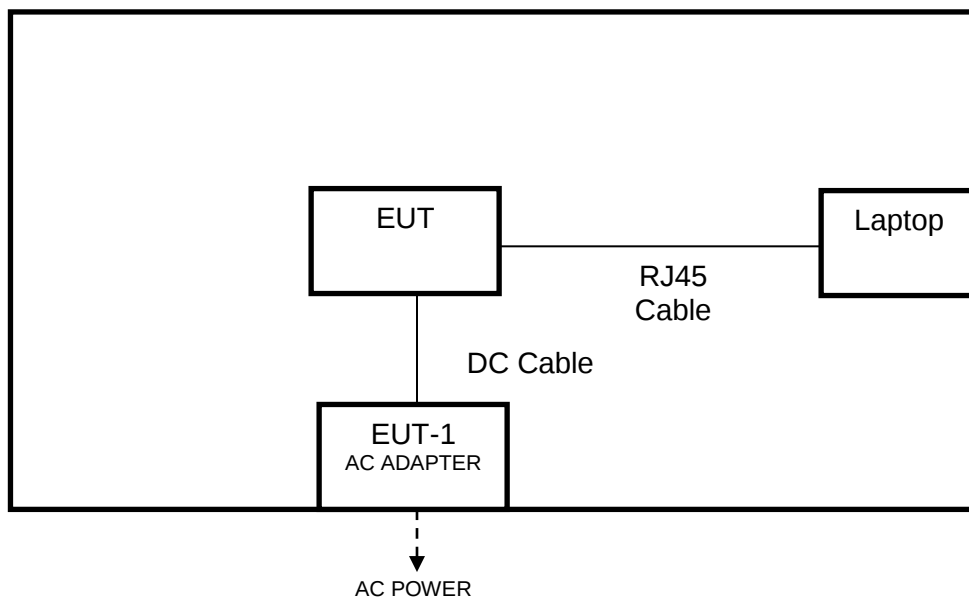
### ACCESSORY

| Item | Accessory  | Brand Name | Model Name     | Description                                     |
|------|------------|------------|----------------|-------------------------------------------------|
| 1    | AC ADAPTER | ARCREST    | NBS24J120200HU | INPUT:100-240V~,50/60Hz,0.6A<br>OUTPUT:12.0V/2A |

### TEST SETUP

The EUT can work in engineering mode with firmware DutApiWiFiMW30XBrdigeUart through a Laptop.

### SETUP DIAGRAM FOR TESTS



## 5.9. MEASURING INSTRUMENT AND SOFTWARE USED

| Conducted Emissions                 |                                         |              |              |               |               |               |
|-------------------------------------|-----------------------------------------|--------------|--------------|---------------|---------------|---------------|
| Instrument                          |                                         |              |              |               |               |               |
| Used                                | Equipment                               | Manufacturer | Model No.    | Serial No.    | Last Cal.     | Next Cal.     |
| <input checked="" type="checkbox"/> | EMI Test Receiver                       | R&S          | ESR3         | 101961        | Dec.20, 2016  | Dec.19, 2017  |
| <input checked="" type="checkbox"/> | Two-Line V-Network                      | R&S          | ENV216       | 101983        | Dec.20, 2016  | Dec.19, 2017  |
| <input checked="" type="checkbox"/> | Artificial Mains Networks               | Schwarzbeck  | NSLK 8126    | 8126465       | Feb.10, 2017  | Feb.10, 2018  |
| Software                            |                                         |              |              |               |               |               |
| Used                                | Description                             |              | Manufacturer | Name          |               | Version       |
| <input checked="" type="checkbox"/> | Test Software for Conducted disturbance |              | Farad        | EZ-EMC        |               | Ver. UL-3A1   |
| Radiated Emissions                  |                                         |              |              |               |               |               |
| Instrument                          |                                         |              |              |               |               |               |
| Used                                | Equipment                               | Manufacturer | Model No.    | Serial No.    | Last Cal.     | Next Cal.     |
| <input checked="" type="checkbox"/> | MXE EMI Receiver                        | KESIGHT      | N9038A       | MY56400036    | Feb. 24, 2017 | Feb. 24, 2018 |
| <input checked="" type="checkbox"/> | Hybrid Log Periodic Antenna             | TDK          | HLP-3003C    | 130960        | Jan.09, 2016  | Jan.09, 2019  |
| <input checked="" type="checkbox"/> | Preamplifier                            | HP           | 8447D        | 2944A09099    | Feb. 13, 2017 | Feb. 13, 2018 |
| <input checked="" type="checkbox"/> | EMI Measurement Receiver                | R&S          | ESR26        | 101377        | Dec. 20, 2016 | Dec. 20, 2017 |
| <input checked="" type="checkbox"/> | Horn Antenna                            | TDK          | HRN-0118     | 130939        | Jan. 09, 2016 | Jan. 09, 2019 |
| <input checked="" type="checkbox"/> | High Gain Horn Antenna                  | Schwarzbeck  | BBHA-9170    | 691           | Jan.06, 2016  | Jan.06, 2019  |
| <input checked="" type="checkbox"/> | Preamplifier                            | TDK          | PA-02-0118   | TRS-305-00066 | Jan. 14, 2017 | Jan. 14, 2018 |
| <input checked="" type="checkbox"/> | Preamplifier                            | TDK          | PA-02-2      | TRS-307-00003 | Dec. 20, 2016 | Dec. 20, 2017 |
| <input checked="" type="checkbox"/> | Loop antenna                            | Schwarzbeck  | 1519B        | 00008         | Mar. 26, 2016 | Mar. 25, 2019 |
| Software                            |                                         |              |              |               |               |               |
| Used                                | Description                             |              | Manufacturer | Name          |               | Version       |
| <input checked="" type="checkbox"/> | Test Software for Radiated disturbance  |              | Farad        | EZ-EMC        |               | Ver. UL-3A1   |
| Other instruments                   |                                         |              |              |               |               |               |
| Used                                | Equipment                               | Manufacturer | Model No.    | Serial No.    | Last Cal.     | Next Cal.     |
| <input checked="" type="checkbox"/> | Spectrum Analyzer                       | Keysight     | N9030A       | MY55410512    | Dec. 20, 2016 | Dec. 20, 2017 |
| <input checked="" type="checkbox"/> | Power Meter                             | Keysight     | N1911A       | MY55416024    | Aug. 20, 2017 | Aug. 20, 2018 |
| <input checked="" type="checkbox"/> | Power Sensor                            | Keysight     | N1921A       | MY51100041    | Feb. 13, 2017 | Feb. 13, 2018 |

|                                     |           |          |         |            |               |               |
|-------------------------------------|-----------|----------|---------|------------|---------------|---------------|
| <input checked="" type="checkbox"/> | DC Supply | Keysight | E36103A | MY55350020 | Feb. 10, 2017 | Feb. 10, 2018 |
|-------------------------------------|-----------|----------|---------|------------|---------------|---------------|

## 6. MEASUREMENT METHODS

| Clause                                                                                                    | Test Items                                | FCC/IC Rules                                                                           | Test Results |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------|--------------|
| 1                                                                                                         | 6dB Bandwidth and 99% Bandwidth           | FCC 15.247 (a) (2)<br>RSS-247 Clause 5.2 (a)                                           | Complied     |
| 2                                                                                                         | Peak Conducted Output Power               | FCC 15.247 (b) (3)<br>RSS-247 Clause 5.4 (e)                                           | Complied     |
| 3                                                                                                         | Power Spectral Density                    | FCC 15.247 (e)<br>RSS-247 Clause 5.2 (b)                                               | Complied     |
| 4                                                                                                         | Conducted Bandedge and Spurious Emission  | FCC 15.247 (d)<br>RSS-247 Clause 5.5                                                   | Complied     |
| 5                                                                                                         | Radiated Bandedge and Spurious Emission   | FCC 15.247 (d)<br>FCC 15.209<br>FCC 15.205<br>RSS-247 Clause 5.5<br>RSS-GEN Clause 8.9 | Complied     |
| 6                                                                                                         | Conducted Emission Test For AC Power Port | FCC 15.207<br>RSS-GEN Clause 8.8                                                       | Complied     |
| 7                                                                                                         | Antenna Requirement                       | FCC 15.203<br>RSS-GEN Clause 8.3                                                       | Complied     |
| Remark: N/A is an abbreviation for Not Applicable, and means this item is not applicable for this device. |                                           |                                                                                        |              |

## 7. ANTENNA PORT TEST RESULTS

### 7.1. ON TIME AND DUTY CYCLE

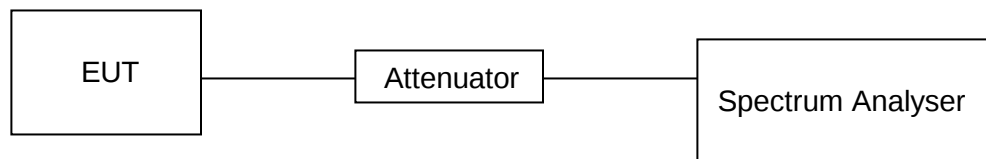
#### LIMITS

None; for reporting purposes only

#### PROCEDURE

KDB 558074 Zero-Span Spectrum Analyzer Method

#### TEST SETUP



#### RESULTS

| Mode  | On Time (msec) | Period (msec) | Duty Cycle x (Linear) | Duty Cycle (%) | Duty Cycle Correction Factor (db) | 1/B Minimum VBW (KHz) |
|-------|----------------|---------------|-----------------------|----------------|-----------------------------------|-----------------------|
| 11b   | 128.2          | 128.2         | 1                     | 100            | 0                                 | 0.010                 |
| 11g   | 128.2          | 128.2         | 1                     | 100            | 0                                 | 0.010                 |
| 11n20 | 128.2          | 128.2         | 1                     | 100            | 0                                 | 0.010                 |
| 11n40 | 128.2          | 128.2         | 1                     | 100            | 0                                 | 0.010                 |

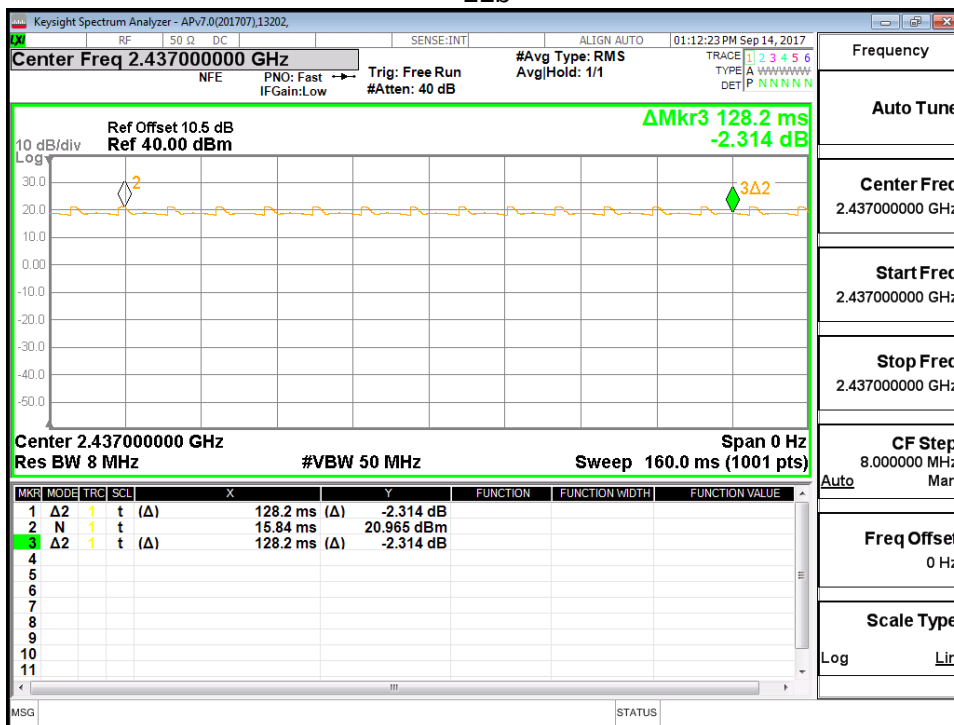
Note: Duty Cycle Correction Factor= $10\log(1/x)$ .

Where: x is Duty Cycle(Linear)

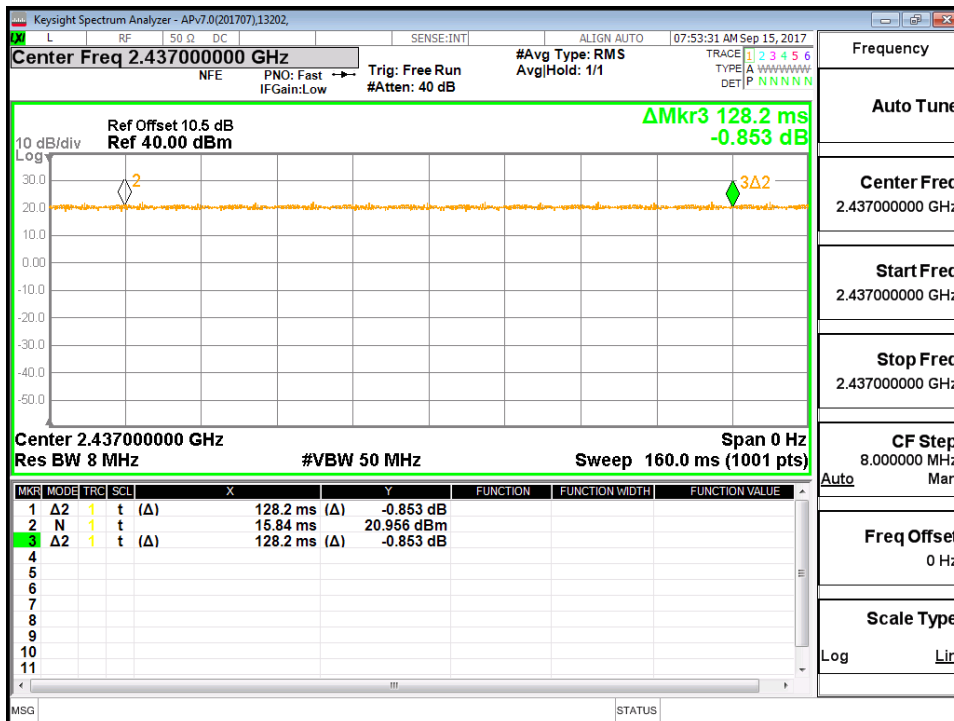
Where: B is On Time

ON TIME AND DUTY CYCLE MID CH

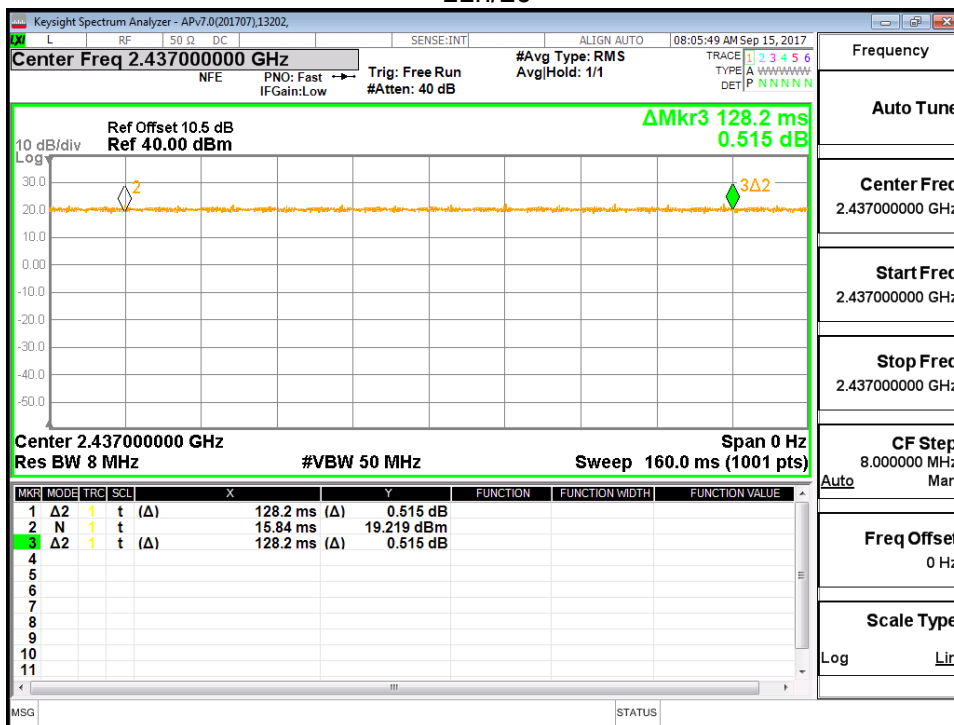
11b



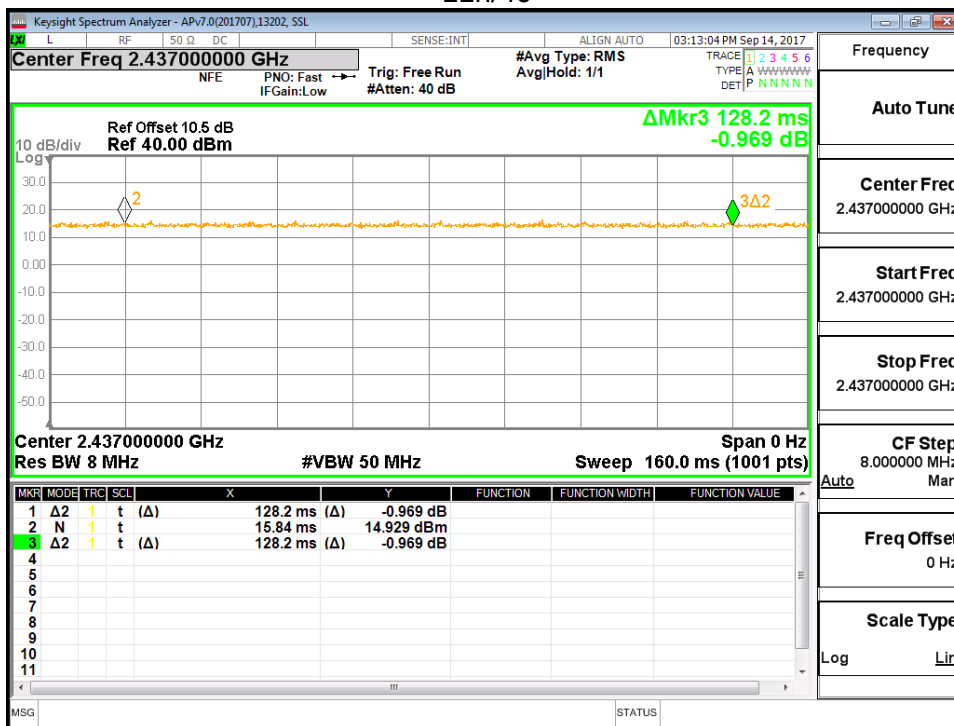
11g



11n/20



11n/40



## 7.2. 6 dB DTS BANDWIDTH AND 99% BANDWIDTH

### LIMITS

| FCC Part15 (15.247) Subpart C<br>RSS-247 ISSUE 2 |                |                              |                       |
|--------------------------------------------------|----------------|------------------------------|-----------------------|
| Section                                          | Test Item      | Limit                        | Frequency Range (MHz) |
| FCC 15.247(a)(2)<br>RSS-247 5.1 (a)              | 6 dB Bandwidth | $\geq 500\text{KHz}$         | 2400-2483.5           |
| RSS-Gen Clause 6.6                               | 99% Bandwidth  | For reporting purposes only. | 2400-2483.5           |

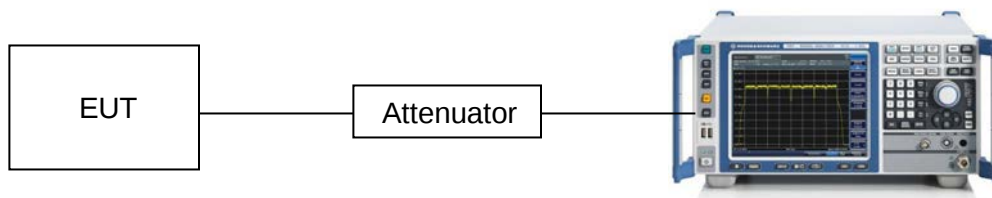
### TEST PROCEDURE

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

|                  |                                                                                                           |
|------------------|-----------------------------------------------------------------------------------------------------------|
| Center Frequency | The centre frequency of the channel under test                                                            |
| Detector         | Peak                                                                                                      |
| RBW              | For 6dB Bandwidth :100K<br>For 99% Bandwidth :1% to 5% of the occupied bandwidth                          |
| VBW              | For 6dB Bandwidth : $\geq 3 \times \text{RBW}$<br>For 99% Bandwidth : approximately $3 \times \text{RBW}$ |
| Trace            | Max hold                                                                                                  |
| Sweep            | Auto couple                                                                                               |

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 dB and 99% relative to the maximum level measured in the fundamental emission.

### TEST SETUP



TEST CONDITIONS  
Temperature: 26.6°C

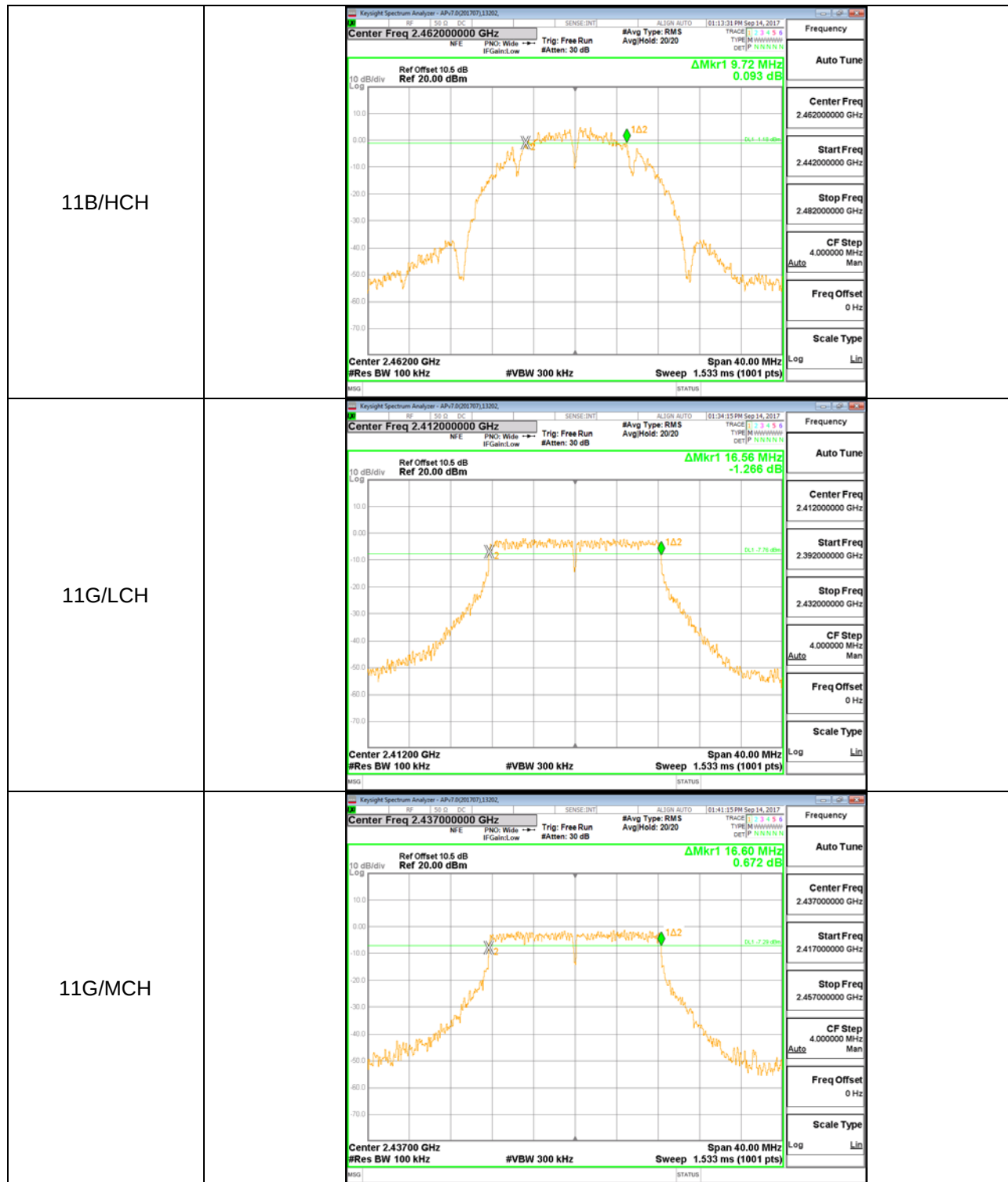
Relative Humidity: 58%  
Test Voltage: AC 120V

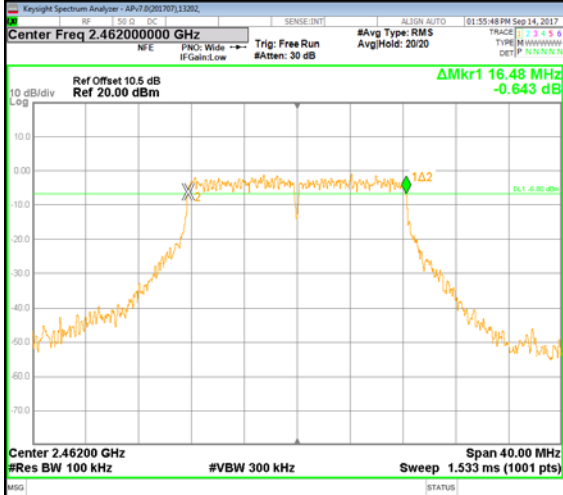
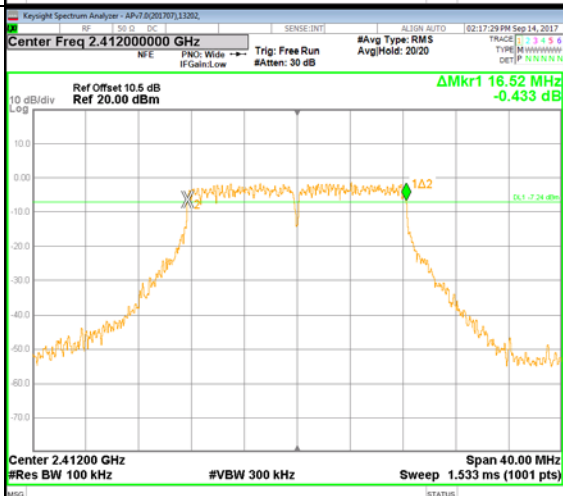
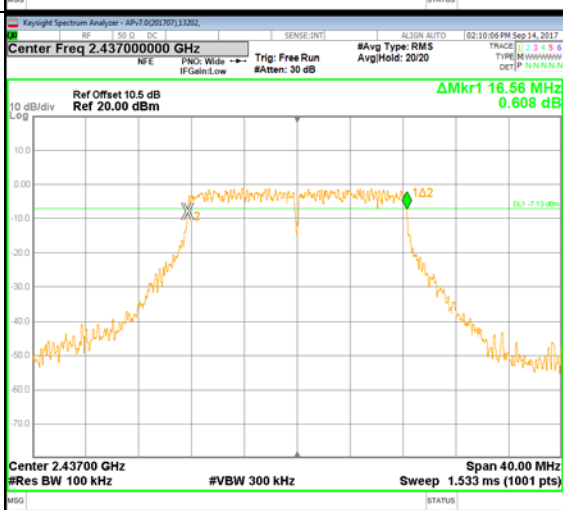
## RESULTS

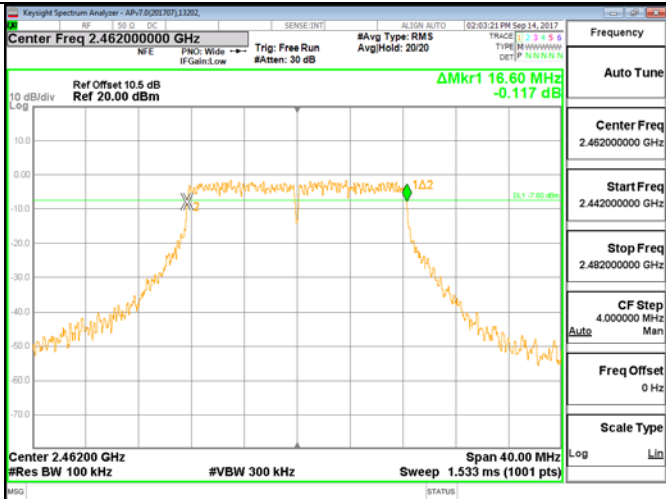
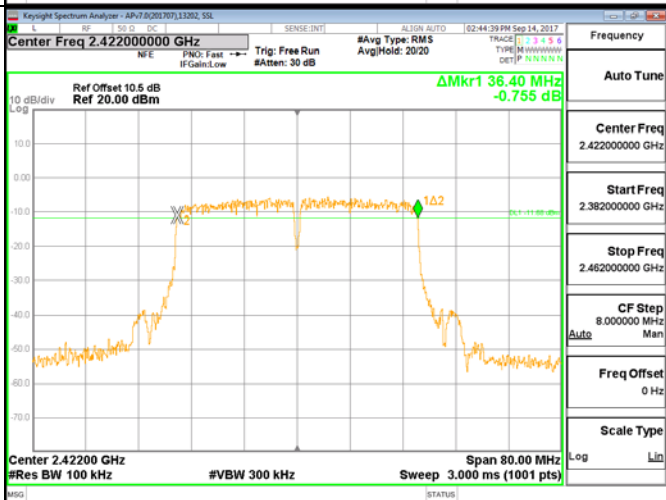
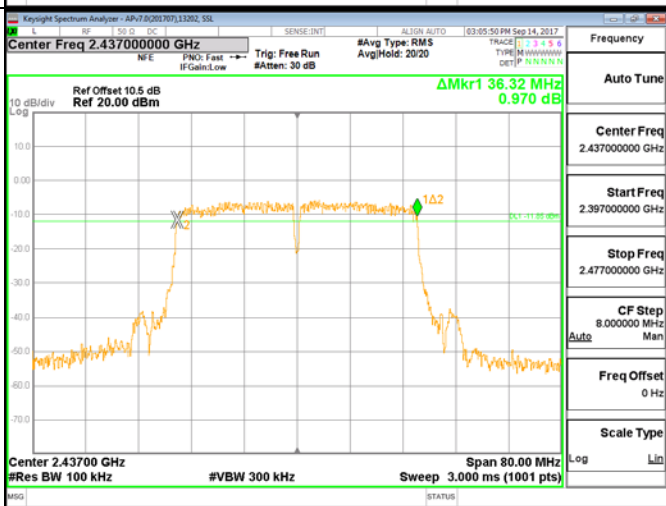
| Mode      | Channel | 6dB Bandwidth [MHz] | 99% OBW [MHz] | Verdict |
|-----------|---------|---------------------|---------------|---------|
| 11B       | LCH     | 9.40                | 14.890        | PASS    |
| 11B       | MCH     | 9.60                | 14.909        | PASS    |
| 11B       | HCH     | 9.72                | 15.034        | PASS    |
| 11G       | LCH     | 16.560              | 16.593        | PASS    |
| 11G       | MCH     | 16.600              | 16.559        | PASS    |
| 11G       | HCH     | 16.480              | 16.529        | PASS    |
| 11N20SISO | LCH     | 16.520              | 16.523        | PASS    |
| 11N20SISO | MCH     | 16.560              | 16.507        | PASS    |
| 11N20SISO | HCH     | 16.600              | 16.515        | PASS    |
| 11N40SISO | LCH     | 36.400              | 35.997        | PASS    |
| 11N40SISO | MCH     | 36.320              | 35.977        | PASS    |
| 11N40SISO | HCH     | 36.480              | 35.934        | PASS    |

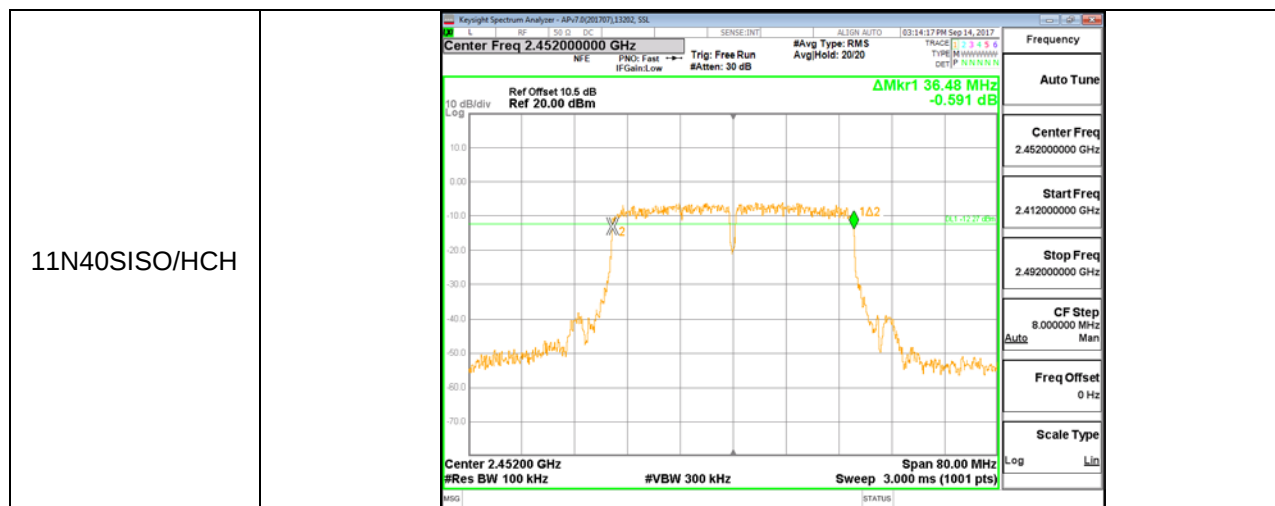
## Test Graphs



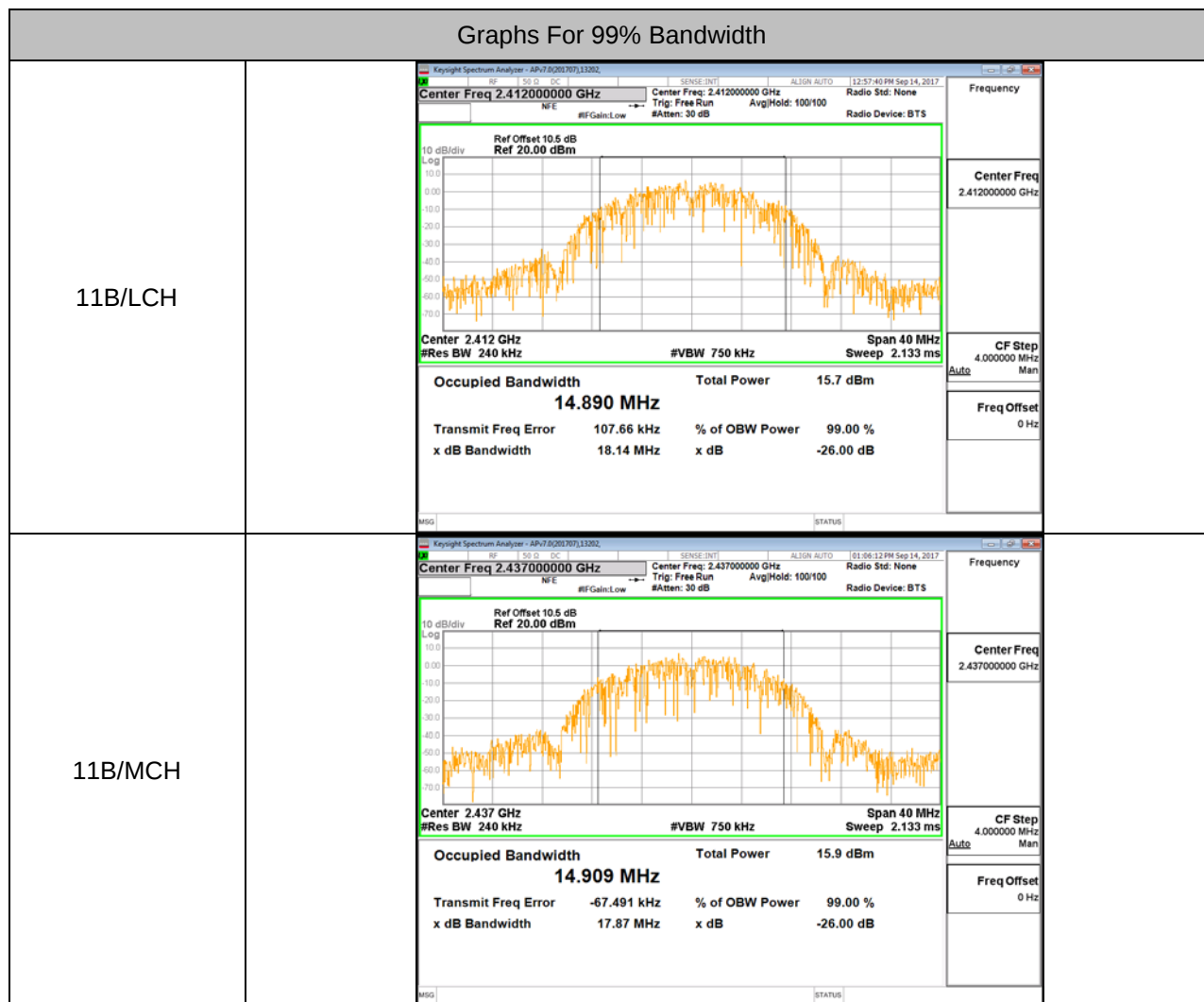


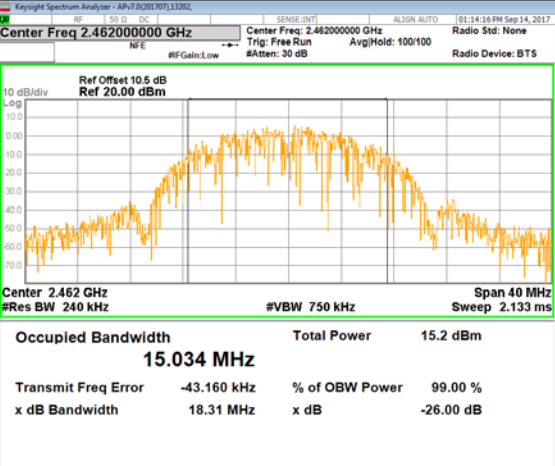
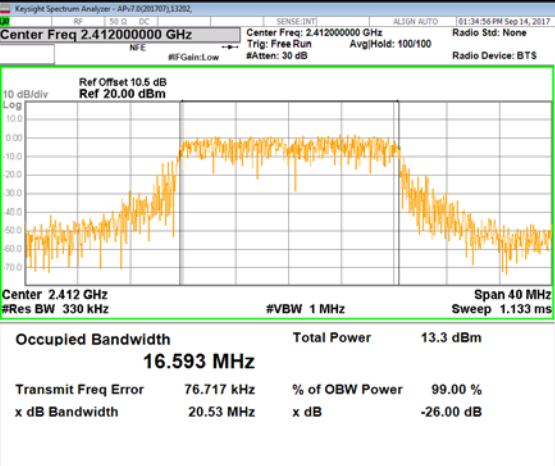
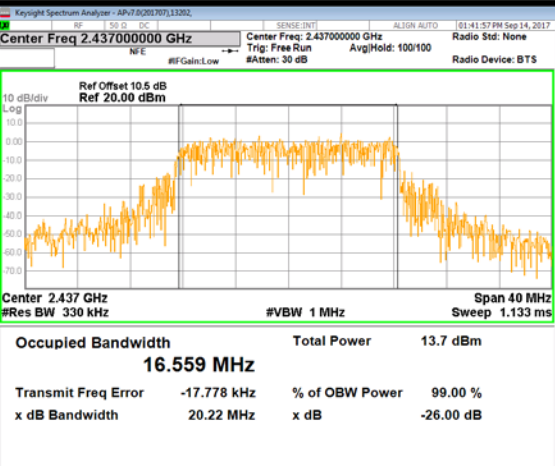
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11G/HCH       |  <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>ΔMkr1 16.48 MHz<br/>-0.643 dB</p> <p>Center 2.46200 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 1.533 ms (1001 pts)</p> <p>Span 40.00 MHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.46200000 GHz</p> <p>Start Freq<br/>2.44200000 GHz</p> <p>Stop Freq<br/>2.48200000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p>  |
| 11N20SISO/LCH |  <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>ΔMkr1 16.52 MHz<br/>-0.433 dB</p> <p>Center 2.41200 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 1.533 ms (1001 pts)</p> <p>Span 40.00 MHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.41200000 GHz</p> <p>Start Freq<br/>2.39200000 GHz</p> <p>Stop Freq<br/>2.43200000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p> |
| 11N20SISO/MCH |  <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>ΔMkr1 16.56 MHz<br/>0.608 dB</p> <p>Center 2.43700 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Sweep 1.533 ms (1001 pts)</p> <p>Span 40.00 MHz</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.43700000 GHz</p> <p>Start Freq<br/>2.41700000 GHz</p> <p>Stop Freq<br/>2.45700000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p> |

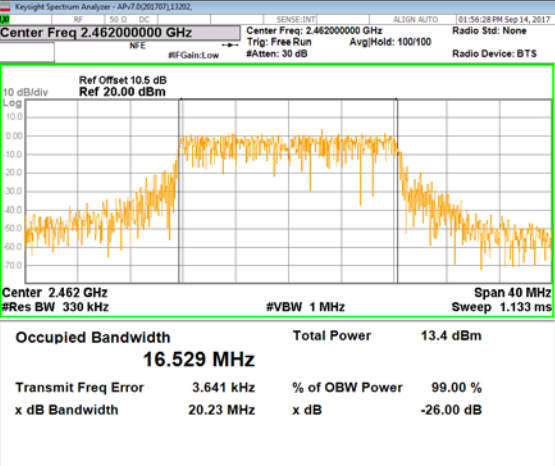
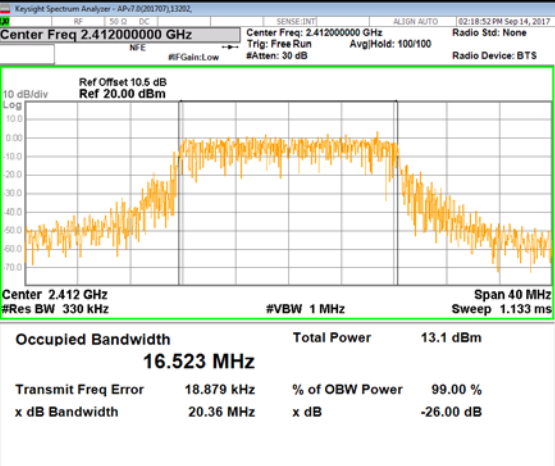
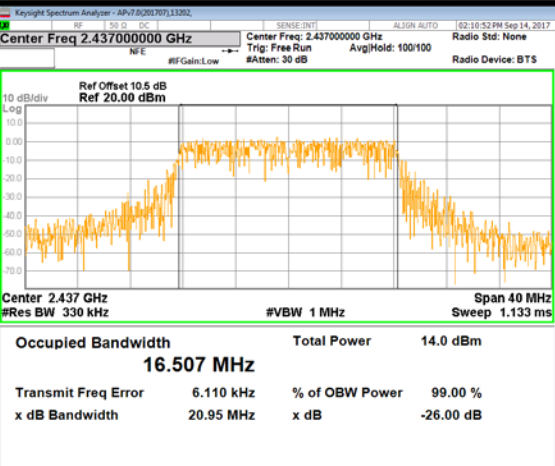
|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11N20SISO/HCH |  <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p><math>\Delta</math>Mkr1 16.60 MHz<br/>-0.117 dB</p> <p>Center 2.46200 GHz<br/>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 40.00 MHz<br/>Sweep 1.533 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.46200000 GHz</p> <p>Start Freq<br/>2.44200000 GHz</p> <p>Stop Freq<br/>2.48200000 GHz</p> <p>CF Step<br/>4.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p>  |
| 11N40SISO/LCH |  <p>Center Freq 2.42200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p><math>\Delta</math>Mkr1 36.40 MHz<br/>-0.755 dB</p> <p>Center 2.42200 GHz<br/>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80.00 MHz<br/>Sweep 3.000 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.42200000 GHz</p> <p>Start Freq<br/>2.38200000 GHz</p> <p>Stop Freq<br/>2.46200000 GHz</p> <p>CF Step<br/>8.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p> |
| 11N40SISO/MCH |  <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p><math>\Delta</math>Mkr1 36.32 MHz<br/>0.970 dB</p> <p>Center 2.43700 GHz<br/>#Res BW 100 kHz</p> <p>#VBW 300 kHz</p> <p>Span 80.00 MHz<br/>Sweep 3.000 ms (1001 pts)</p> <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.43700000 GHz</p> <p>Start Freq<br/>2.39700000 GHz</p> <p>Stop Freq<br/>2.47700000 GHz</p> <p>CF Step<br/>8.000000 MHz<br/>Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log</p> |

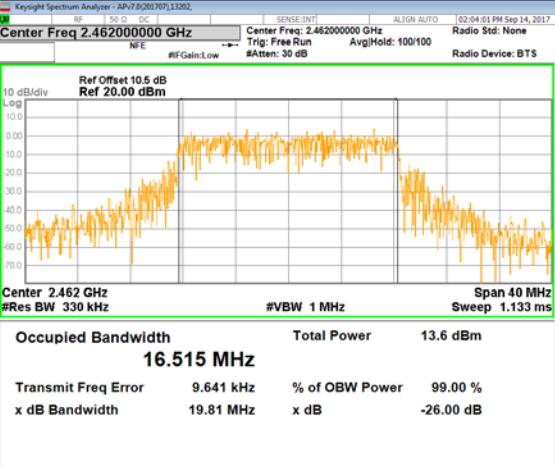
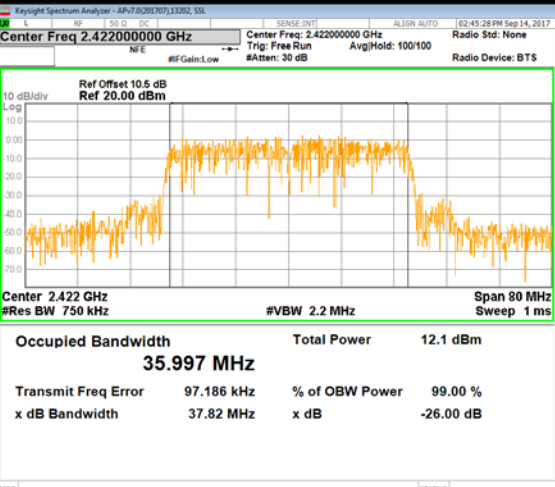
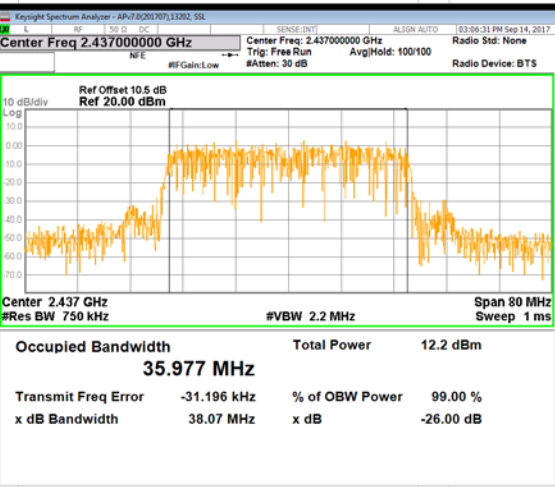


### Graphs For 99% Bandwidth

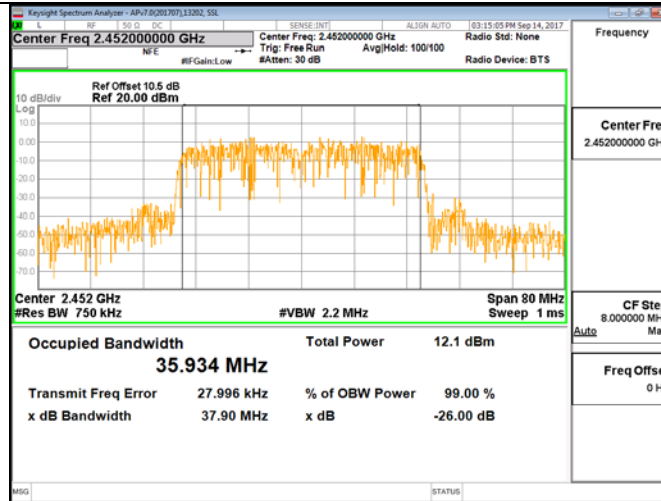


|         |                                                                                                                                                                                                                                                                                                                                                                                                                        |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11B/HCH |  <p>KeySight Spectrum Analyzer - APv7.0(201707)11202</p> <p>Center Freq 2.46200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Occupied Bandwidth 15.034 MHz</p> <p>Total Power 15.2 dBm</p> <p>Transmit Freq Error -43.160 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 18.31 MHz</p> <p>x dB -26.00 dB</p>   |
| 11G/LCH |  <p>KeySight Spectrum Analyzer - APv7.0(201707)11202</p> <p>Center Freq 2.41200000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Occupied Bandwidth 16.593 MHz</p> <p>Total Power 13.3 dBm</p> <p>Transmit Freq Error 76.717 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 20.53 MHz</p> <p>x dB -26.00 dB</p>   |
| 11G/MCH |  <p>KeySight Spectrum Analyzer - APv7.0(201707)11202</p> <p>Center Freq 2.43700000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 20.00 dBm</p> <p>Occupied Bandwidth 16.559 MHz</p> <p>Total Power 13.7 dBm</p> <p>Transmit Freq Error -17.778 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 20.22 MHz</p> <p>x dB -26.00 dB</p> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11G/HCH       |  <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Span 40 MHz</p> <p>Sweep 1.133 ms</p> <p>Occupied Bandwidth 16.529 MHz</p> <p>Total Power 13.4 dBm</p> <p>Transmit Freq Error 3.641 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 20.23 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.462000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p>   |
| 11N20SISO/LCH |  <p>Center Freq 2.41200000 GHz</p> <p>Center Freq: 2.412000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Span 40 MHz</p> <p>Sweep 1.133 ms</p> <p>Occupied Bandwidth 16.523 MHz</p> <p>Total Power 13.1 dBm</p> <p>Transmit Freq Error 18.879 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 20.36 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.412000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p> |
| 11N20SISO/MCH |  <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Span 40 MHz</p> <p>Sweep 1.133 ms</p> <p>Occupied Bandwidth 16.507 MHz</p> <p>Total Power 14.0 dBm</p> <p>Transmit Freq Error 6.110 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 20.95 MHz</p> <p>x dB -26.00 dB</p> <p>Frequency</p> <p>Center Freq 2.437000000 GHz</p> <p>CF Step 4.000000 MHz</p> <p>Auto Man</p> <p>Freq Offset 0 Hz</p> |

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|---------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 11N20SISO/HCH |  <p>Center Freq 2.46200000 GHz</p> <p>Center Freq: 2.462000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Center 2.462 GHz</p> <p>#Res BW 330 kHz</p> <p>#VBW 1 MHz</p> <p>Span 40 MHz</p> <p>Sweep 1.133 ms</p> <p>Occupied Bandwidth 16.515 MHz</p> <p>Total Power 13.6 dBm</p> <p>Transmit Freq Error 9.641 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 19.81 MHz</p> <p>x dB -26.00 dB</p>   |
| 11N40SISO/LCH |  <p>Center Freq 2.42200000 GHz</p> <p>Center Freq: 2.422000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Center 2.422 GHz</p> <p>#Res BW 750 kHz</p> <p>#VBW 2.2 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 35.997 MHz</p> <p>Total Power 12.1 dBm</p> <p>Transmit Freq Error 97.186 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 37.82 MHz</p> <p>x dB -26.00 dB</p>   |
| 11N40SISO/MCH |  <p>Center Freq 2.43700000 GHz</p> <p>Center Freq: 2.437000000 GHz</p> <p>Trig: Free Run</p> <p>Avg/Hold: 100/100</p> <p>Radio Std: None</p> <p>Radio Device: BTS</p> <p>Ref Offset 10.5 dB</p> <p>Ref 20.00 dBm</p> <p>Center 2.437 GHz</p> <p>#Res BW 750 kHz</p> <p>#VBW 2.2 MHz</p> <p>Span 80 MHz</p> <p>Sweep 1 ms</p> <p>Occupied Bandwidth 35.977 MHz</p> <p>Total Power 12.2 dBm</p> <p>Transmit Freq Error -31.196 kHz</p> <p>% of OBW Power 99.00 %</p> <p>x dB Bandwidth 38.07 MHz</p> <p>x dB -26.00 dB</p> |

11N20SISO/HCH



### 7.3. PEAK & AVRAGE CONDUCTED OUTPUT POWER

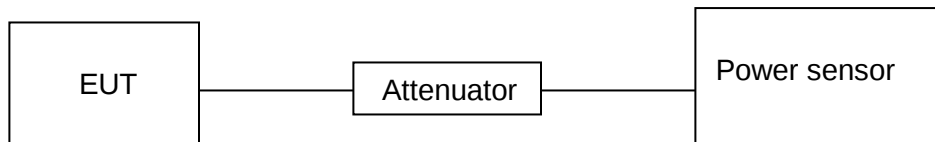
#### LIMITS

| FCC Part15 (15.247) Subpart C<br>RSS-247 ISSUE 2 |                             |                 |                       |
|--------------------------------------------------|-----------------------------|-----------------|-----------------------|
| Section                                          | Test Item                   | Limit           | Frequency Range (MHz) |
| FCC 15.247(b)(3)<br>RSS-247 5.4 (e)              | Peak & Average Output Power | 1 watt or 30dBm | 2400-2483.5           |

#### TEST PROCEDURE

Place the EUT on the table and set it in the transmitting mode.  
Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the Power sensor.  
Measure peak power each channel.

#### TEST SETUP



## RESULTS

| Mode      | Channel | Average. Power [dBm] | Peak. Power [dBm] | Verdict |
|-----------|---------|----------------------|-------------------|---------|
| 11B       | LCH     | 15.19                | 18.41             | PASS    |
| 11B       | MCH     | 15.59                | 18.67             | PASS    |
| 11B       | HCH     | 15.37                | 18.34             | PASS    |
| 11G       | LCH     | 13.91                | 22.95             | PASS    |
| 11G       | MCH     | 14.20                | 23.26             | PASS    |
| 11G       | HCH     | 13.85                | 22.88             | PASS    |
| 11N20SISO | LCH     | 13.59                | 22.60             | PASS    |
| 11N20SISO | MCH     | 14.03                | 23.04             | PASS    |
| 11N20SISO | HCH     | 13.80                | 22.82             | PASS    |
| 11N40SISO | LCH     | 13.91                | 22.95             | PASS    |
| 11N40SISO | MCH     | 14.20                | 23.26             | PASS    |
| 11N40SISO | HCH     | 13.85                | 22.88             | PASS    |

## 7.4. POWER SPECTRAL DENSITY

### LIMITS

| FCC Part15 (15.247) Subpart C<br>RSS-247 ISSUE 2 |                        |                         |                       |
|--------------------------------------------------|------------------------|-------------------------|-----------------------|
| Section                                          | Test Item              | Limit                   | Frequency Range (MHz) |
| FCC §15.247 (e)<br>RSS-247 5.2 (b)               | Power Spectral Density | 8 dBm in any 3 kHz band | 2400-2483.5           |

### TEST PROCEDURE

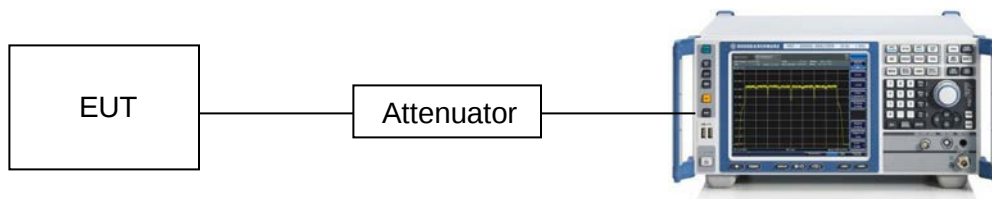
Connect the UUT to the spectrum analyser and use the following settings:

|                  |                                                      |
|------------------|------------------------------------------------------|
| Center Frequency | The centre frequency of the channel under test       |
| Detector         | Peak                                                 |
| RBW              | $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$ |
| VBW              | $\geq 3 \times \text{RBW}$                           |
| Span             | $1.5 \times \text{DTS bandwidth}$                    |
| Trace            | Max hold                                             |
| Sweep time       | Auto couple.                                         |

Allow trace to fully stabilize and use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

### TEST SETUP



### TEST CONDITIONS

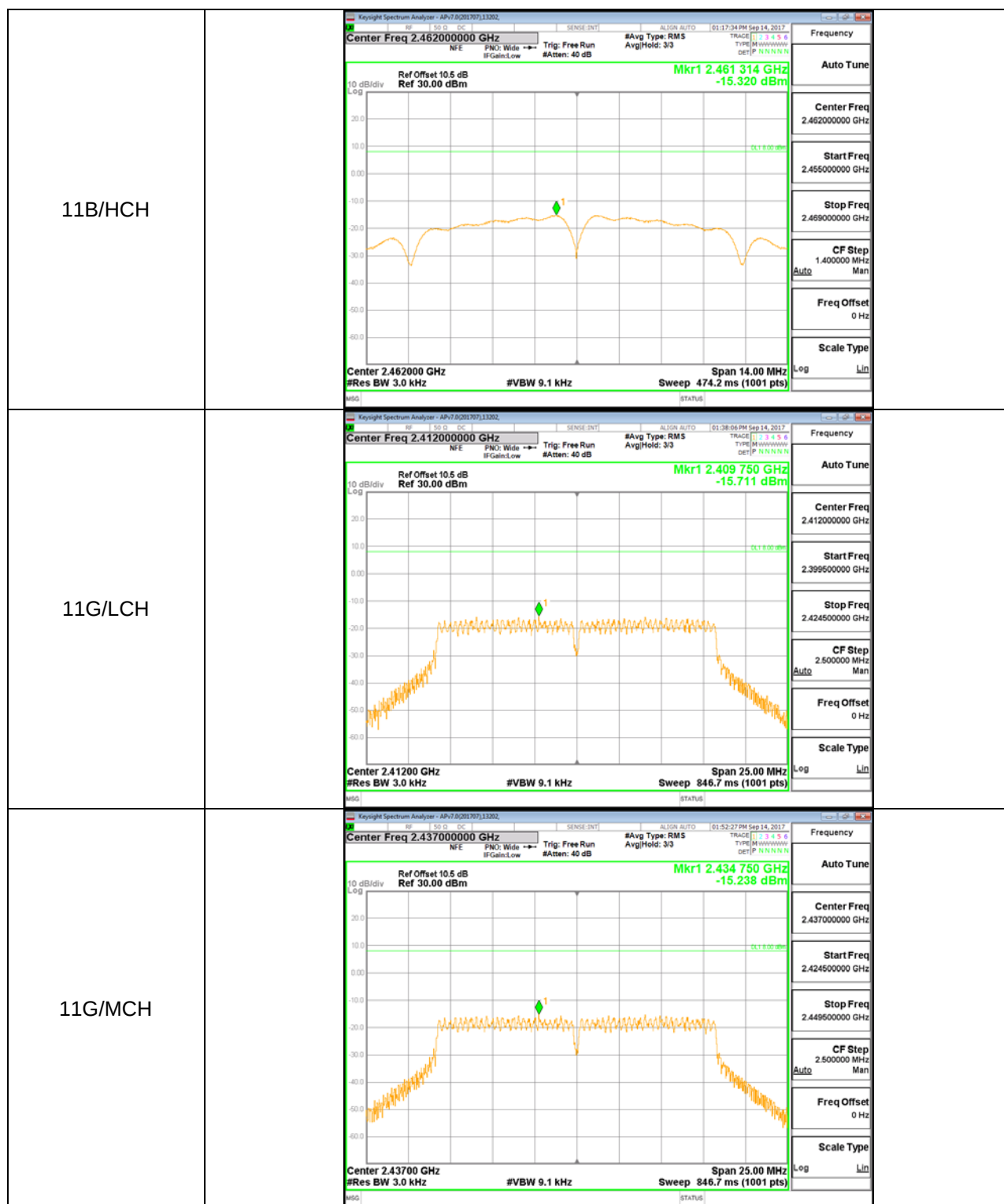
Temperature: 27°C  
Relative Humidity: 60%  
Test Voltage: 3.8Vdc

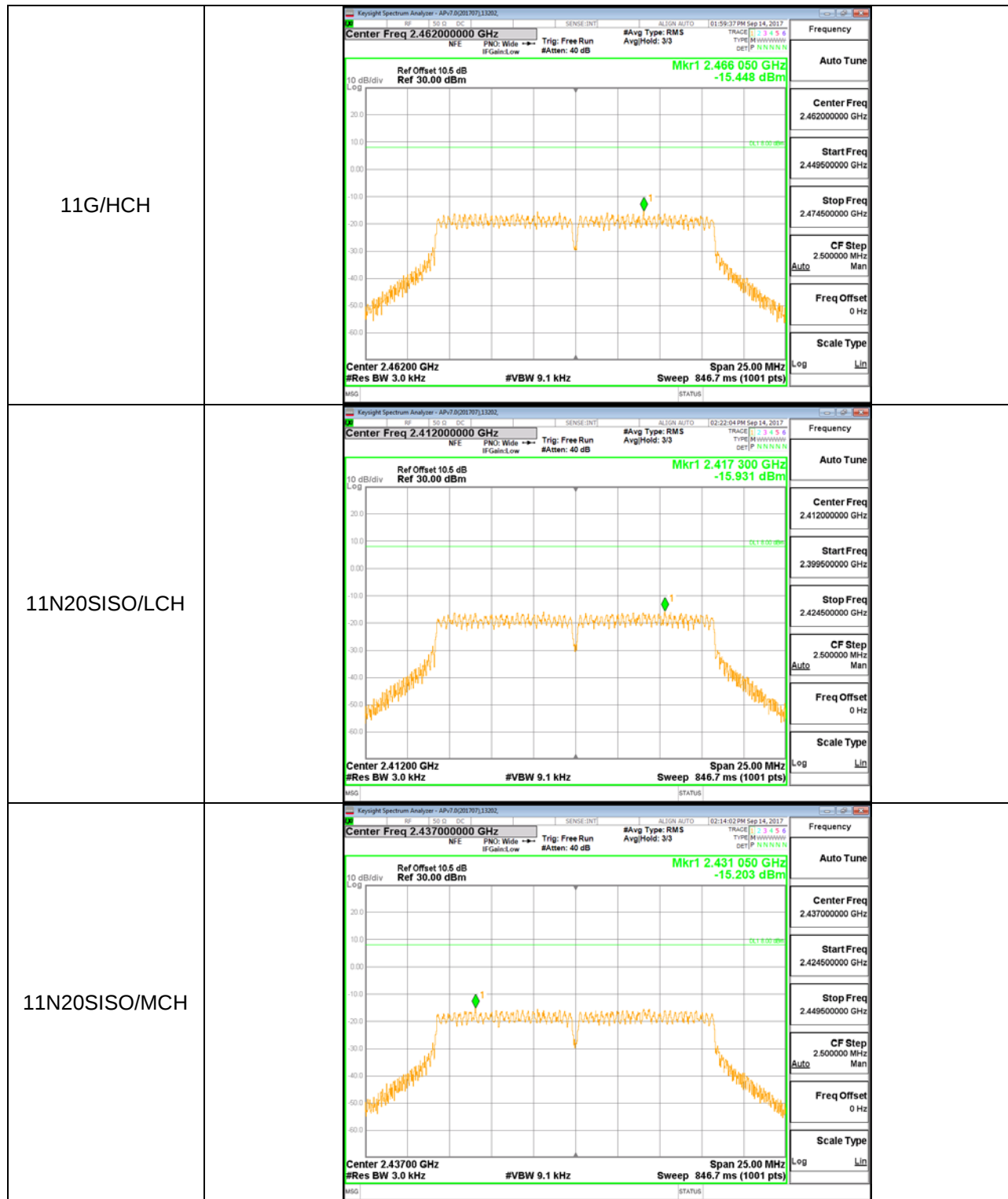
## RESULTS

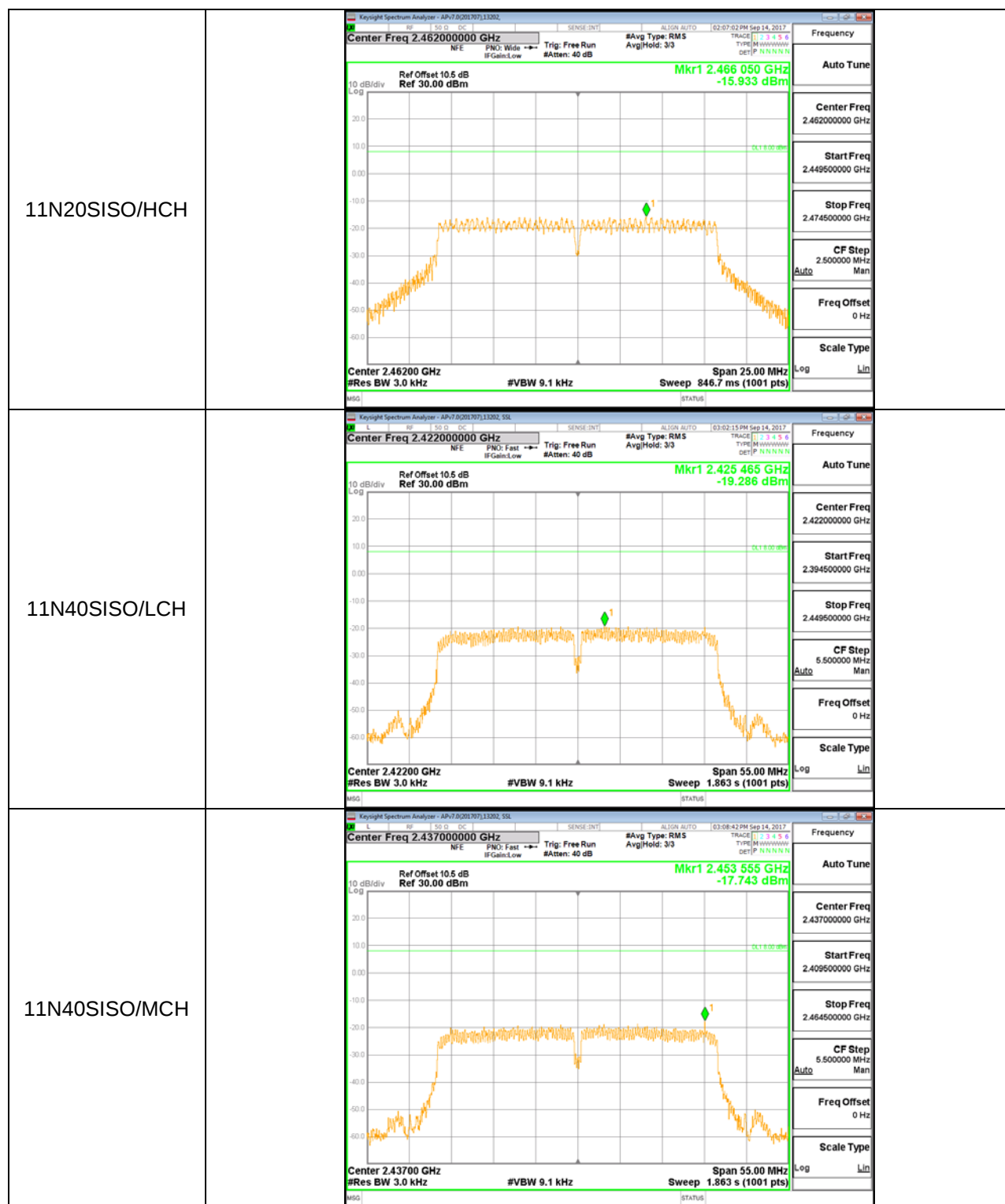
| Mode      | Channel | Meas.Level<br>[dBm/30kHz] | Verdict |
|-----------|---------|---------------------------|---------|
| 11B       | LCH     | -15.26                    | PASS    |
| 11B       | MCH     | -14.94                    | PASS    |
| 11B       | HCH     | -15.32                    | PASS    |
| 11G       | LCH     | -15.71                    | PASS    |
| 11G       | MCH     | -15.24                    | PASS    |
| 11G       | HCH     | -15.45                    | PASS    |
| 11N20SISO | LCH     | -15.93                    | PASS    |
| 11N20SISO | MCH     | -15.2                     | PASS    |
| 11N20SISO | HCH     | -15.93                    | PASS    |
| 11N40SISO | LCH     | -19.29                    | PASS    |
| 11N40SISO | MCH     | -17.74                    | PASS    |
| 11N40SISO | HCH     | -19.48                    | PASS    |

## Test Graphs

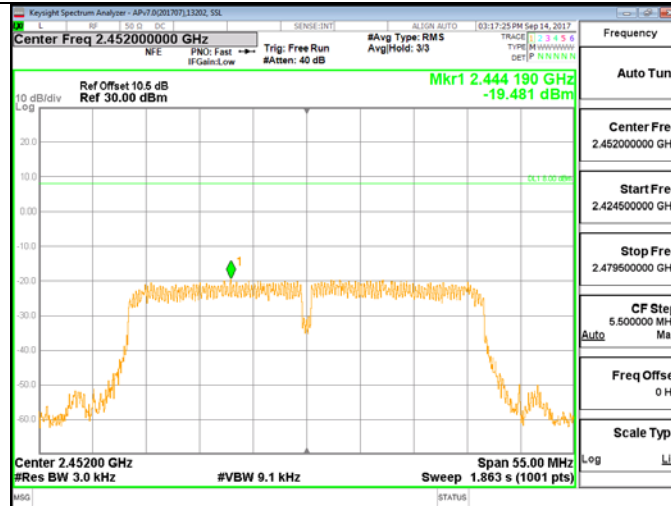








11N40SISO/HCH



## 7.5. CONDUCTED BANDEGE AND SPURIOUS EMISSIONS

### LIMITS

| FCC Part15 (15.247) Subpart C<br>RSS-2474 ISSUE 2 |                                                 |                                                                                                                               |
|---------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Section                                           | Test Item                                       | Limit                                                                                                                         |
| FCC §15.247 (d)<br>RSS-247 5.5                    | Conducted<br>Bandedge and<br>Spurious Emissions | at least 20 dB below that in the 100 kHz<br>bandwidth within the band that contains the<br>highest level of the desired power |

### TEST PROCEDURE

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

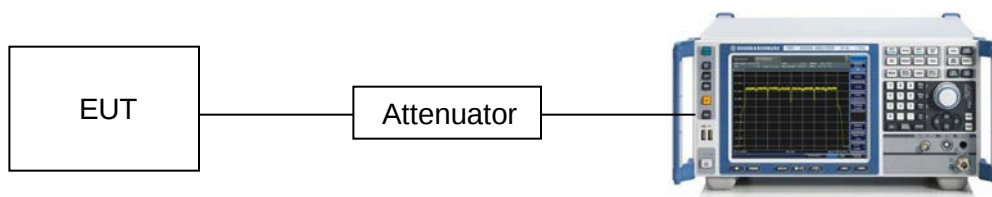
|                  |                                                |
|------------------|------------------------------------------------|
| Center Frequency | The centre frequency of the channel under test |
| Detector         | Peak                                           |
| RBW              | 100K                                           |
| VBW              | $\geq 3 \times \text{RBW}$                     |
| Span             | $1.5 \times \text{DTS bandwidth}$              |
| Trace            | Max hold                                       |
| Sweep time       | Auto couple.                                   |

Use the peak marker function to determine the maximum PSD level.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Span               | Set the center frequency and span to encompass frequency range to be measured |
| Detector           | Peak                                                                          |
| RBW                | 100K                                                                          |
| VBW                | $\geq 3 \times \text{RBW}$                                                    |
| measurement points | $\geq \text{span}/\text{RBW}$                                                 |
| Trace              | Max hold                                                                      |
| Sweep time         | Auto couple.                                                                  |

Use the peak marker function to determine the maximum amplitude level.

## TEST SETUP



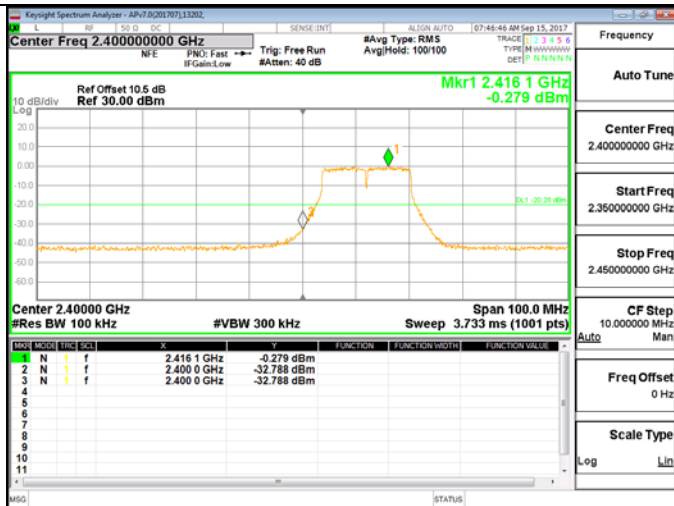
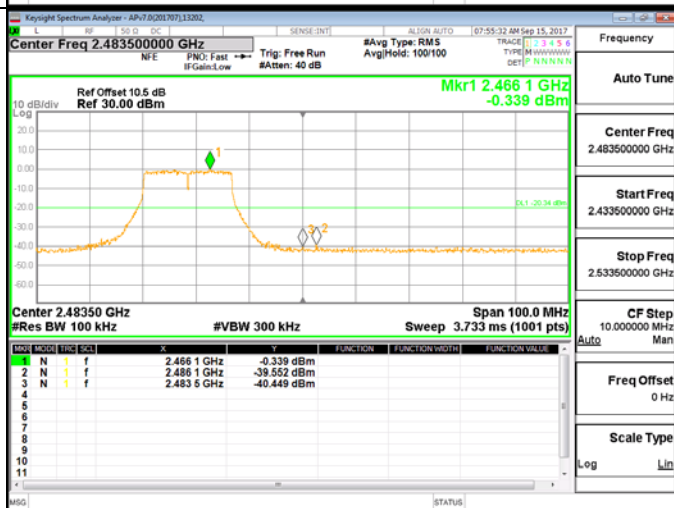
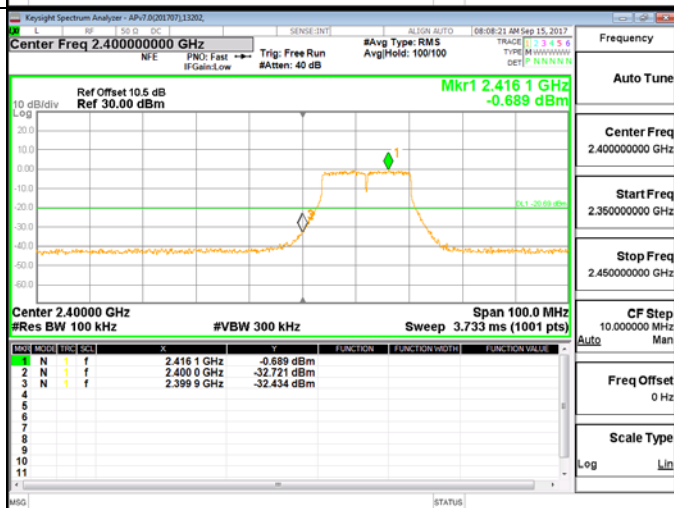
## TEST CONDITIONS

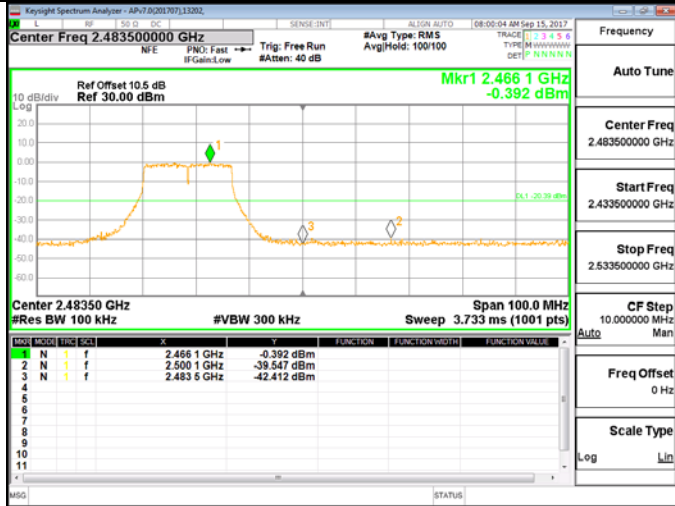
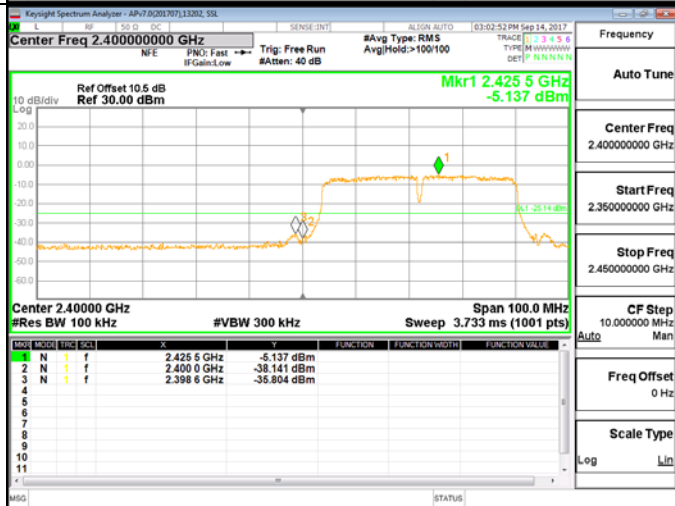
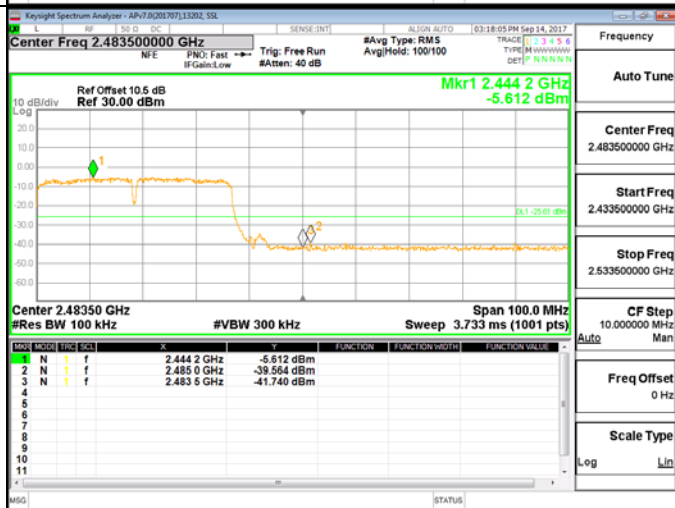
Temperature: 27°C  
Relative Humidity: 60%  
Test Voltage: 3.8Vdc

## RESULTS

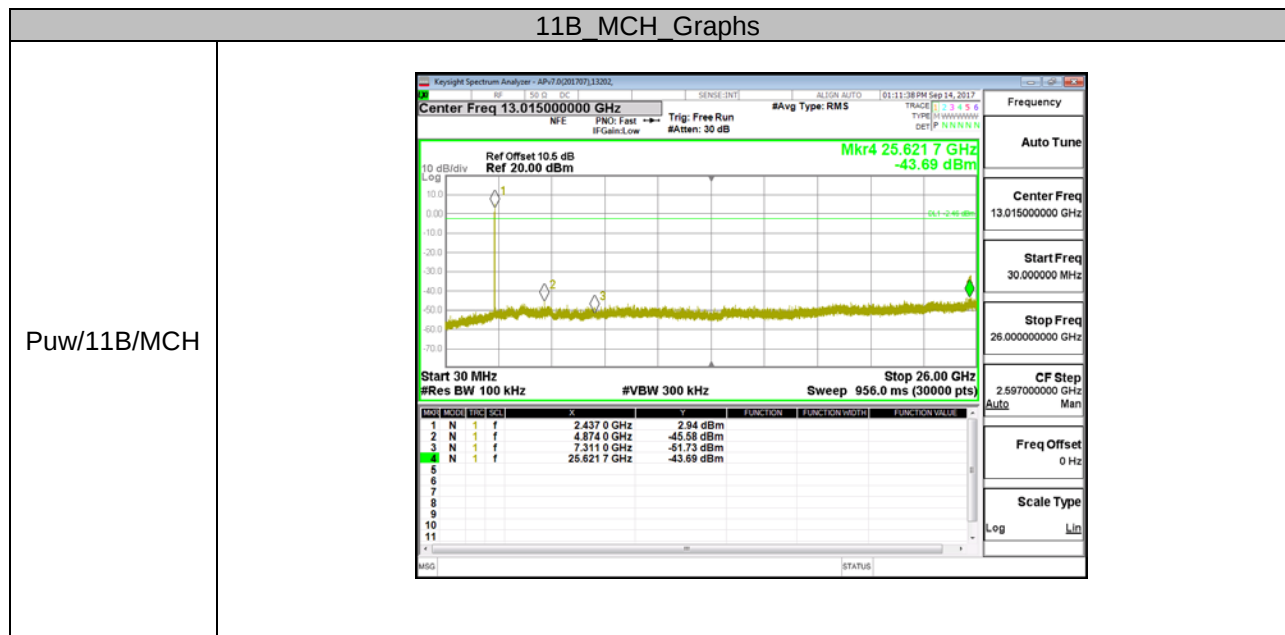
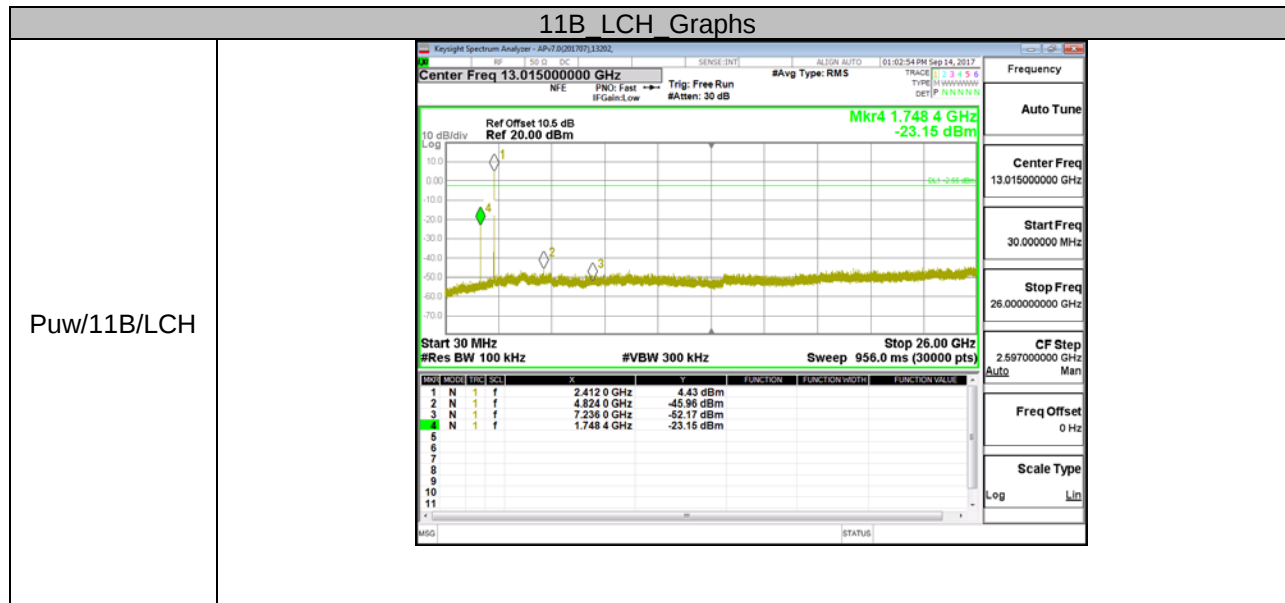
### Band-edge:



| 11G/LCH       |  <p>Center Freq 2.400000000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4161 GHz<br/>-0.279 dBm</p> <p>Center 2.40000 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><tr><th>Line</th><th>Marker</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr><tr><td>1</td><td>N</td><td>2.4161</td><td>-0.279</td></tr><tr><td>2</td><td>N</td><td>2.4000</td><td>-32.788</td></tr><tr><td>3</td><td>N</td><td>2.4000</td><td>-32.788</td></tr></table>   | Line       | Marker      | Freq (GHz) | Power (dBm) | 1 | N | 2.4161 | -0.279 | 2 | N | 2.4000 | -32.788 | 3 | N | 2.4000 | -32.788 |
|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------|-------------|---|---|--------|--------|---|---|--------|---------|---|---|--------|---------|
| Line          | Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Freq (GHz) | Power (dBm) |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4161     | -0.279      |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4000     | -32.788     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4000     | -32.788     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 11G/HCH       |  <p>Center Freq 2.483500000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4661 GHz<br/>-0.339 dBm</p> <p>Center 2.48350 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><tr><th>Line</th><th>Marker</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr><tr><td>1</td><td>N</td><td>2.4661</td><td>-0.339</td></tr><tr><td>2</td><td>N</td><td>2.4861</td><td>-38.552</td></tr><tr><td>3</td><td>N</td><td>2.4835</td><td>-40.449</td></tr></table>  | Line       | Marker      | Freq (GHz) | Power (dBm) | 1 | N | 2.4661 | -0.339 | 2 | N | 2.4861 | -38.552 | 3 | N | 2.4835 | -40.449 |
| Line          | Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Freq (GHz) | Power (dBm) |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4661     | -0.339      |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4861     | -38.552     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4835     | -40.449     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 11N20SISO/LCH |  <p>Center Freq 2.400000000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4161 GHz<br/>-0.689 dBm</p> <p>Center 2.40000 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><tr><th>Line</th><th>Marker</th><th>Freq (GHz)</th><th>Power (dBm)</th></tr><tr><td>1</td><td>N</td><td>2.4161</td><td>-0.689</td></tr><tr><td>2</td><td>N</td><td>2.4000</td><td>-32.721</td></tr><tr><td>3</td><td>N</td><td>2.3999</td><td>-32.434</td></tr></table> | Line       | Marker      | Freq (GHz) | Power (dBm) | 1 | N | 2.4161 | -0.689 | 2 | N | 2.4000 | -32.721 | 3 | N | 2.3999 | -32.434 |
| Line          | Marker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Freq (GHz) | Power (dBm) |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4161     | -0.689      |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.4000     | -32.721     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 2.3999     | -32.434     |            |             |   |   |        |        |   |   |        |         |   |   |        |         |

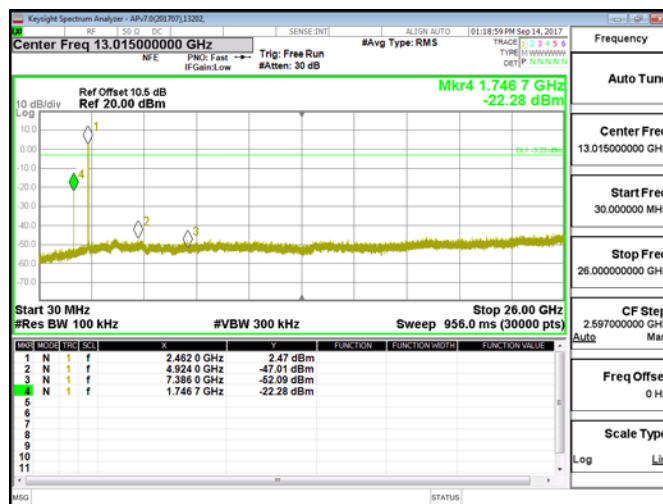
| 11N20SISO/HCH |  <p>Center Freq 2.48350000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4661 GHz<br/>-0.392 dBm</p> <p>Center 2.48350 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><thead><tr><th>Line</th><th>Mode</th><th>Freq (GHz)</th><th>Power (dBm)</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>2.4661</td><td>-0.392</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>2.5001</td><td>-39.547</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>2.4835</td><td>-42.412</td><td></td><td></td><td></td></tr></tbody></table>   | Line       | Mode        | Freq (GHz) | Power (dBm)    | Function       | Function Width | Function Value | 1 | N | 2.4661 | -0.392 |  |  |  | 2 | N | 2.5001 | -39.547 |  |  |  | 3 | N | 2.4835 | -42.412 |  |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.483500000 GHz</p> <p>Start Freq<br/>2.433500000 GHz</p> <p>Stop Freq<br/>2.533500000 GHz</p> <p>CF Step<br/>10.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log Lin</p> |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|-------------|------------|----------------|----------------|----------------|----------------|---|---|--------|--------|--|--|--|---|---|--------|---------|--|--|--|---|---|--------|---------|--|--|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Line          | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Freq (GHz) | Power (dBm) | Function   | Function Width | Function Value |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4661     | -0.392      |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.5001     | -39.547     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4835     | -42.412     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 11N20SISO/LCH |  <p>Center Freq 2.40000000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4255 GHz<br/>-5.137 dBm</p> <p>Center 2.40000 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><thead><tr><th>Line</th><th>Mode</th><th>Freq (GHz)</th><th>Power (dBm)</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>2.4255</td><td>-5.137</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>2.4000</td><td>-38.141</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>2.3986</td><td>-35.804</td><td></td><td></td><td></td></tr></tbody></table>  | Line       | Mode        | Freq (GHz) | Power (dBm)    | Function       | Function Width | Function Value | 1 | N | 2.4255 | -5.137 |  |  |  | 2 | N | 2.4000 | -38.141 |  |  |  | 3 | N | 2.3986 | -35.804 |  |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.400000000 GHz</p> <p>Start Freq<br/>2.350000000 GHz</p> <p>Stop Freq<br/>2.450000000 GHz</p> <p>CF Step<br/>10.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log Lin</p> |
| Line          | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Freq (GHz) | Power (dBm) | Function   | Function Width | Function Value |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4255     | -5.137      |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4000     | -38.141     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.3986     | -35.804     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 11N20SISO/HCH |  <p>Center Freq 2.48350000 GHz</p> <p>Ref Offset 10.5 dB<br/>Ref 30.00 dBm</p> <p>Mkr1 2.4442 GHz<br/>-5.612 dBm</p> <p>Center 2.48350 GHz<br/>#Res BW 100 kHz<br/>#VBW 300 kHz<br/>Span 100.0 MHz<br/>Sweep 3.733 ms (1001 pts)</p> <table><thead><tr><th>Line</th><th>Mode</th><th>Freq (GHz)</th><th>Power (dBm)</th><th>Function</th><th>Function Width</th><th>Function Value</th></tr></thead><tbody><tr><td>1</td><td>N</td><td>2.4442</td><td>-5.612</td><td></td><td></td><td></td></tr><tr><td>2</td><td>N</td><td>2.4850</td><td>-39.564</td><td></td><td></td><td></td></tr><tr><td>3</td><td>N</td><td>2.4835</td><td>-41.740</td><td></td><td></td><td></td></tr></tbody></table> | Line       | Mode        | Freq (GHz) | Power (dBm)    | Function       | Function Width | Function Value | 1 | N | 2.4442 | -5.612 |  |  |  | 2 | N | 2.4850 | -39.564 |  |  |  | 3 | N | 2.4835 | -41.740 |  |  |  | <p>Frequency</p> <p>Auto Tune</p> <p>Center Freq<br/>2.483500000 GHz</p> <p>Start Freq<br/>2.433500000 GHz</p> <p>Stop Freq<br/>2.533500000 GHz</p> <p>CF Step<br/>10.000000 MHz<br/>Auto Man</p> <p>Freq Offset<br/>0 Hz</p> <p>Scale Type<br/>Log Lin</p> |
| Line          | Mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Freq (GHz) | Power (dBm) | Function   | Function Width | Function Value |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 1             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4442     | -5.612      |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 2             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4850     | -39.564     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |
| 3             | N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 2.4835     | -41.740     |            |                |                |                |                |   |   |        |        |  |  |  |   |   |        |         |  |  |  |   |   |        |         |  |  |  |                                                                                                                                                                                                                                                             |

## Spurious Emissions:



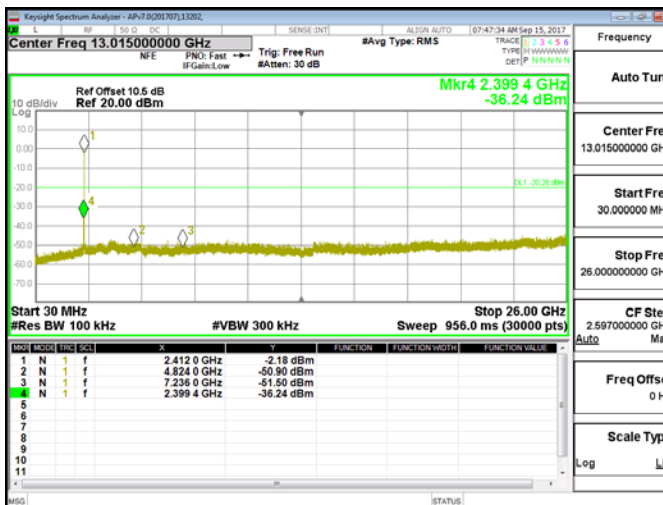
### 11B\_HCH\_Graphs

Puw/11B/HCH



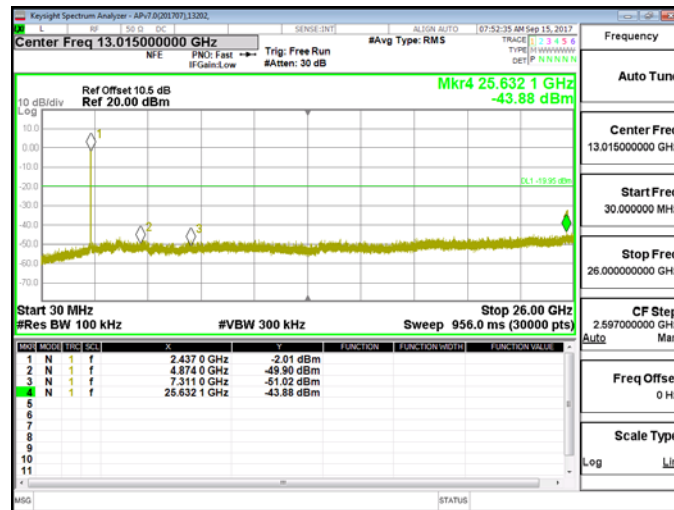
### 11G\_LCH\_Graphs

Puw/11G/LCH



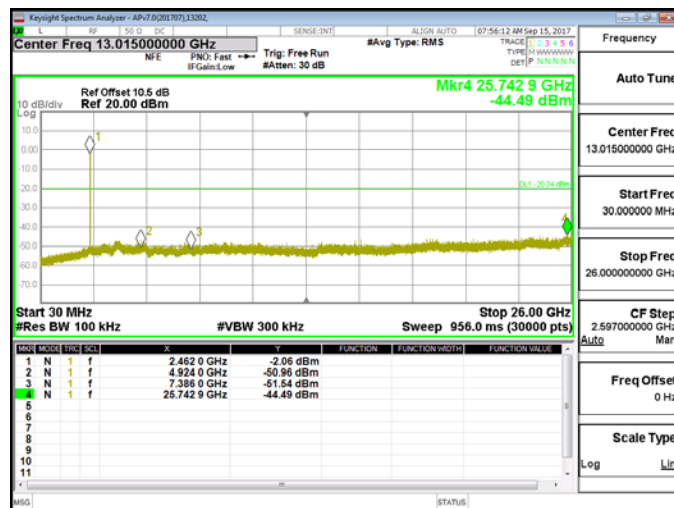
### 11G\_MCH\_Graphs

Puw/11G/MCH



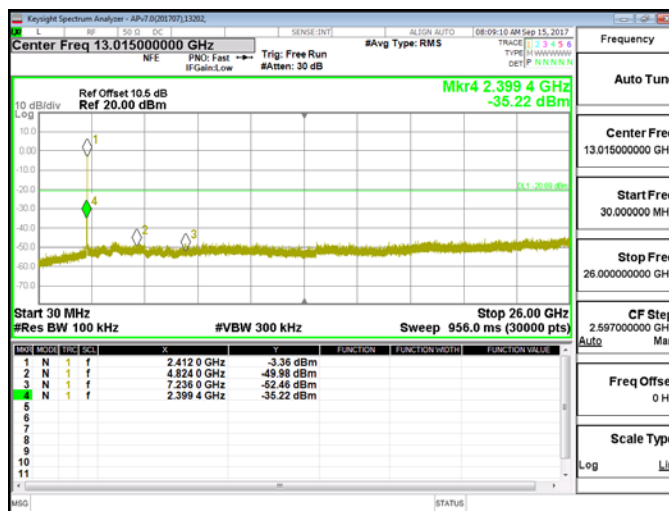
### 11G\_HCH\_Graphs

Puw/11G/HCH



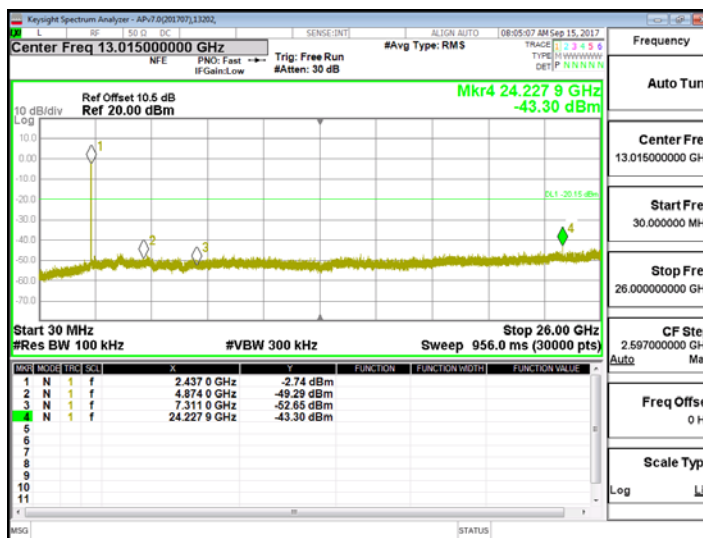
### 11N20SISO\_LCH\_Graphs

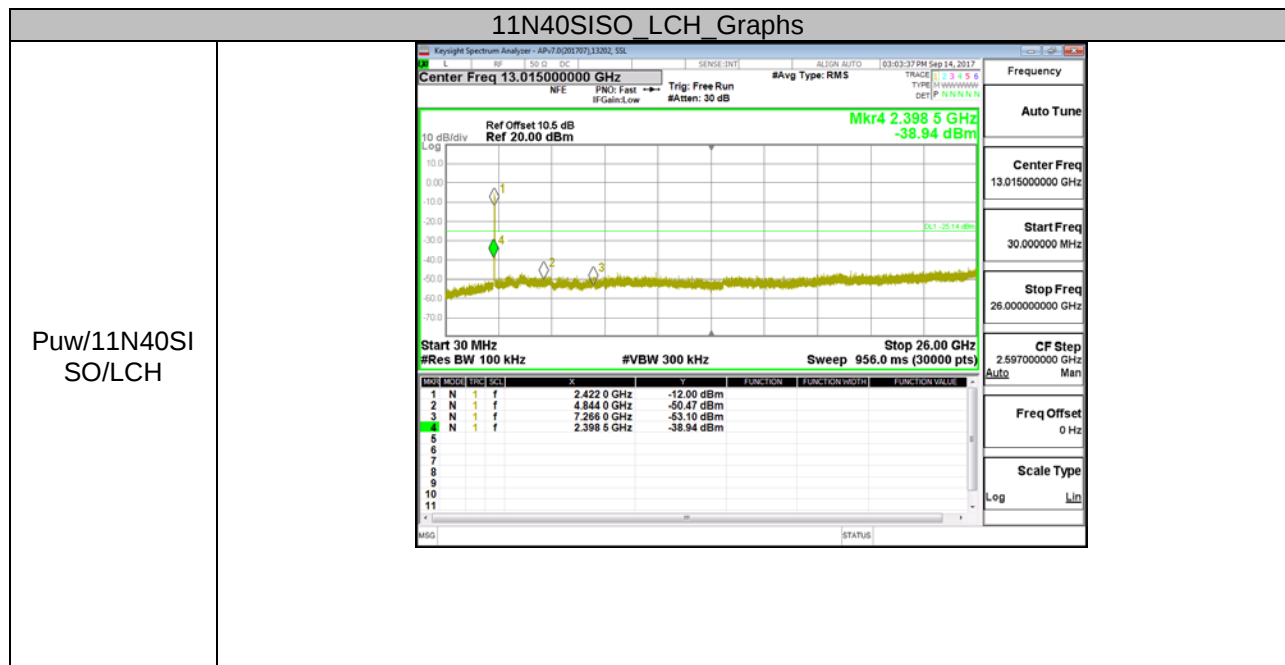
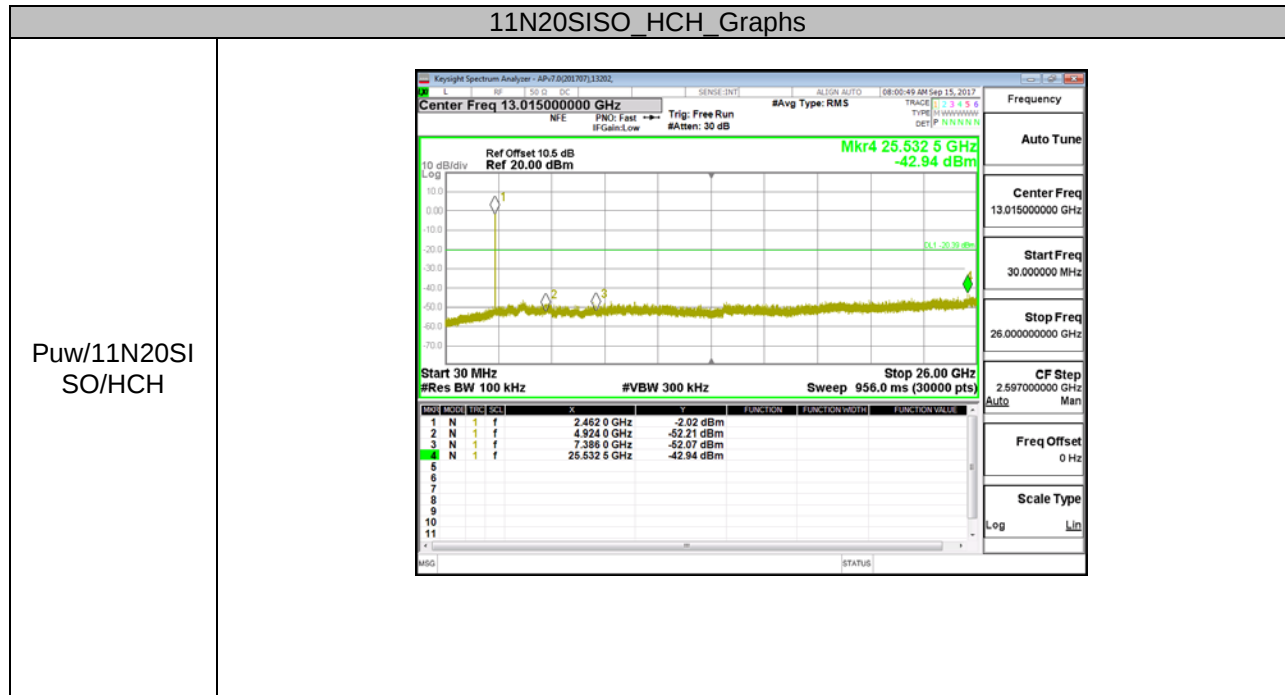
Puw/11N20SI  
SO/LCH



### 11N20SISO\_MCH\_Graphs

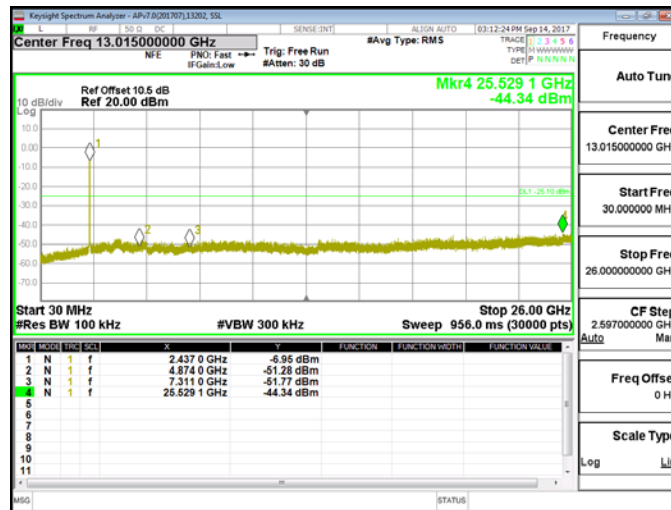
Puw/11N20SI  
SO/MCH





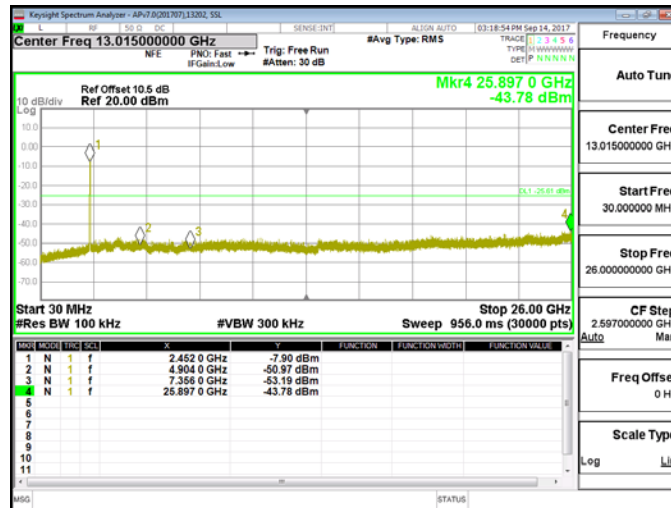
### 11N40SISO\_MCH\_Graphs

Puw/11N40SI  
SO/MCH



### 11N40SISO\_HCH\_Graphs

Puw/11N40SI  
SO/HCH



## 8. RADIATED TEST RESULTS

### 8.1. LIMITS AND PROCEDURE

#### LIMITS

Please refer to FCC §15.205 and §15.209

Please refer to RSS-GEN Clause 8.9 (Transmitter)

Radiation Disturbance Test Limit for FCC (Class B)(9KHz-1GHz)

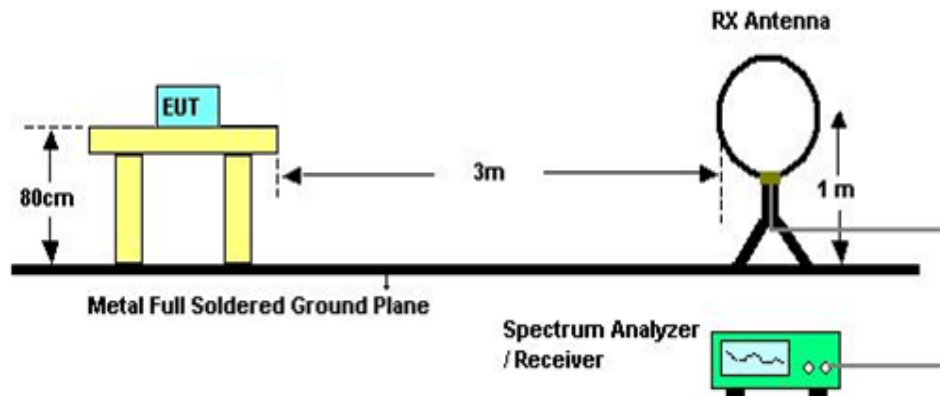
| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 0.009~0.490     | 2400/F(KHz)                       | 300                           |
| 0.490~1.705     | 24000/F(KHz)                      | 30                            |
| 1.705~30.0      | 30                                | 30                            |
| 30~88           | 100                               | 3                             |
| 88~216          | 150                               | 3                             |
| 216~960         | 200                               | 3                             |
| 960~1000        | 500                               | 3                             |

Radiation Disturbance Test Limit for FCC (Above 1G)

| Frequency (MHz) | dB(uV/m) (at 3 meters) |         |
|-----------------|------------------------|---------|
|                 | Peak                   | Average |
| Above 1000      | 74                     | 54      |

## TEST SETUP AND PROCEDURE

Below 30MHz

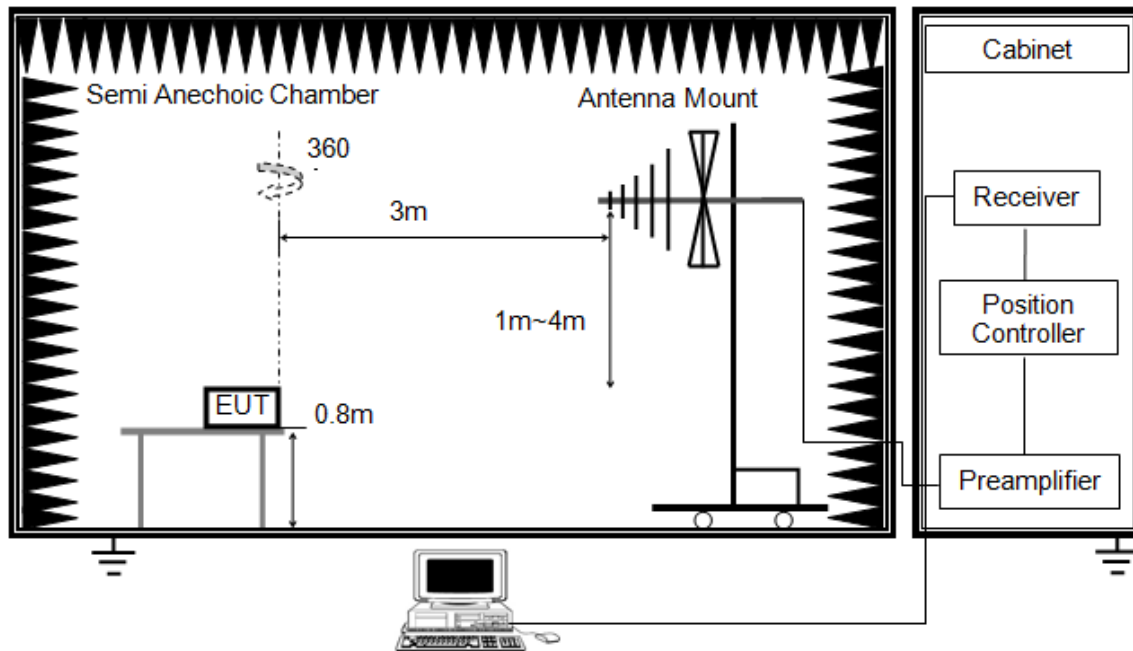


The setting of the spectrum analyser

|          |                                                            |
|----------|------------------------------------------------------------|
| RBW      | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| VBW      | 200Hz (From 9kHz to 0.15MHz)/ 9KHz (From 0.15MHz to 30MHz) |
| Sweep    | Auto                                                       |
| Detector | Peak/QP/ Average                                           |
| Trace    | Max hold                                                   |

1. The testing follows the guidelines in ANSI C63.10-2013
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 and vertical polarizations of the antenna are set to make the measurement.
3. The EUT was placed on a turntable with 0.8 meter 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, 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.
7. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

Below 1G

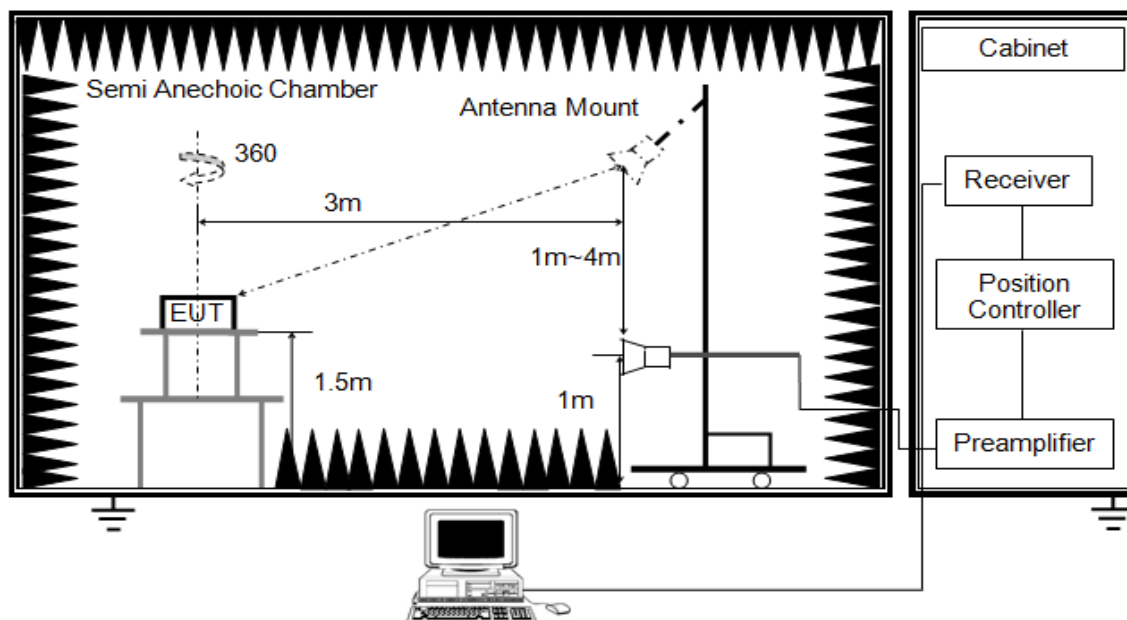


The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
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 0.8 meter 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. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For measurement below 1GHz, 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.
7. For the actual test configuration, please refer to the related Item in this test report (Photographs of the Test Configuration)

# ABOVE 1G



## The setting of the spectrum analyser

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

1. The testing follows the guidelines in ANSI C63.10-2013.
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 1.5m 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 1GHz, 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, max hold to be run for at least 50 x (1/duty cycle) traces for average measurements.
8. For the actual test configuration, please refer to the related item in this test report (Photographs of the Test Configuration)

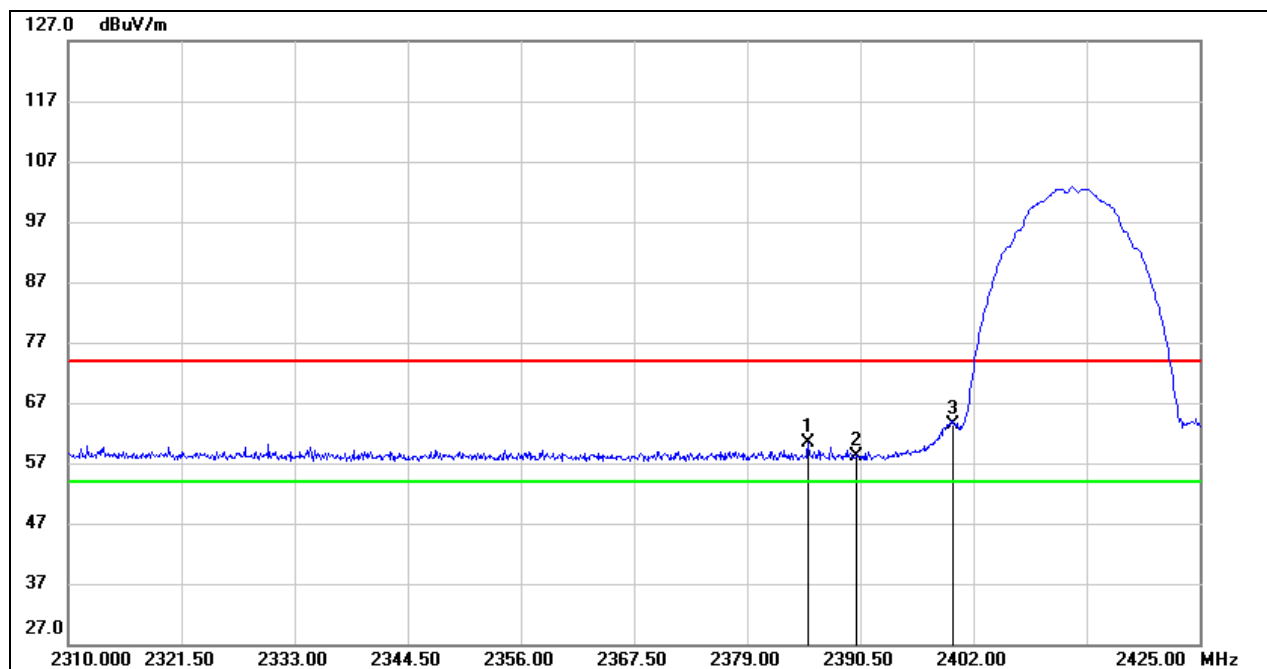
X axis, Y axis, Z axis positions: please refer to Setup Photo.

Note: 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.

## 8.2. RESTRICTED BANDEDGE

### RESTRICTED BANDEDGE (11b LOW CHANNEL, HORIZONTAL)

#### PEAK

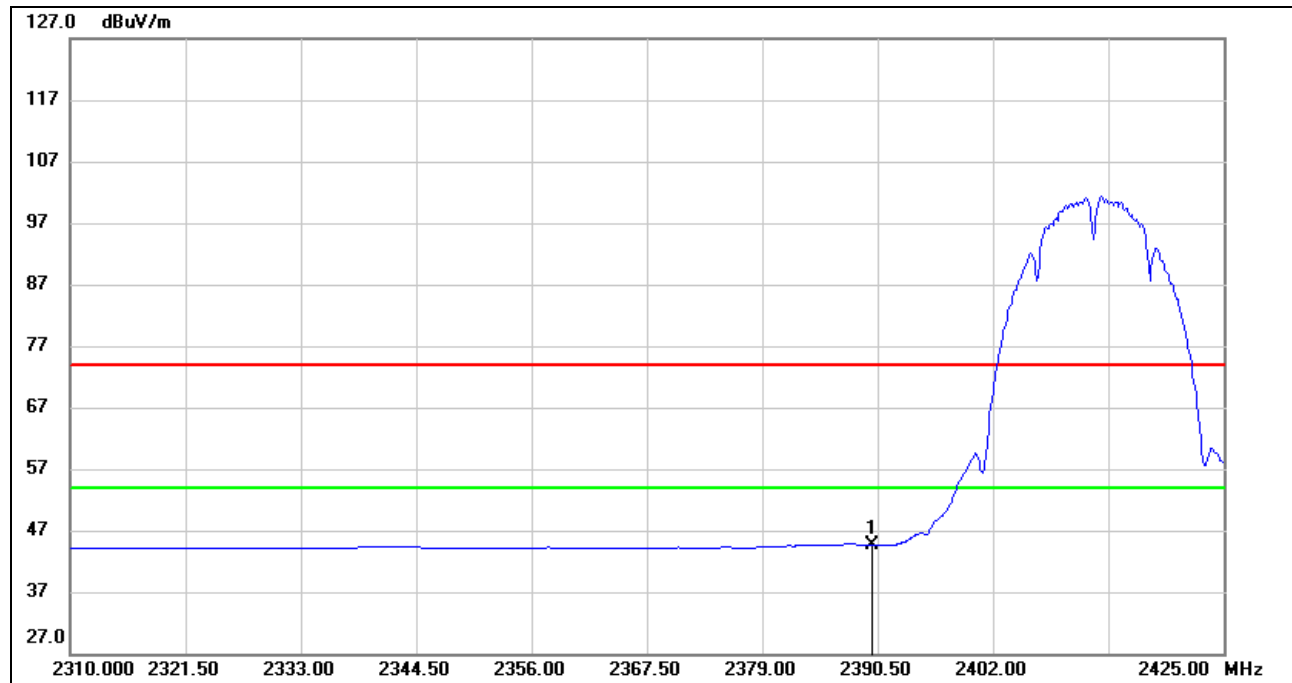


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2385.210           | 27.04               | 33.28           | 60.32              | 74.00             | -13.68         | peak   |
| 2   | 2390.000           | 24.85               | 33.24           | 58.09              | 74.00             | -15.91         | peak   |
| 3   | 2400.000           | 30.33               | 33.17           | 63.50              | 74.00             | -10.50         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



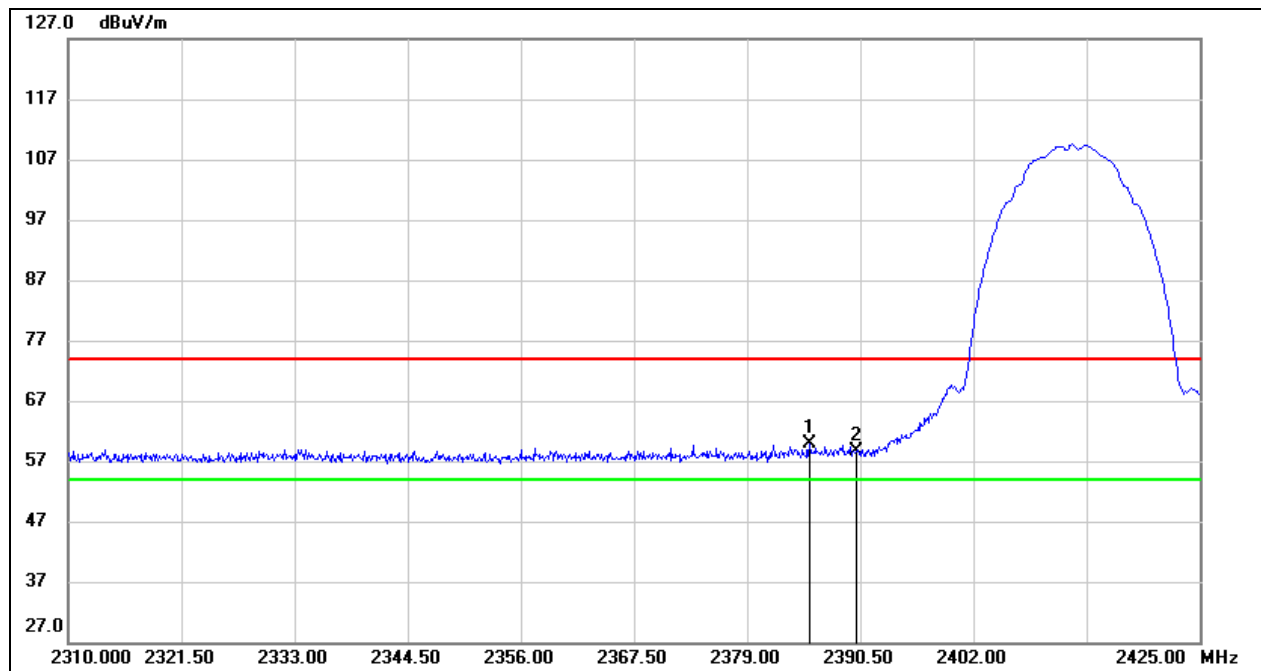
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 11.54               | 33.14           | 44.68              | 54.00             | -9.32          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11b LOW CHANNEL, VERTICAL)**

**PEAK**

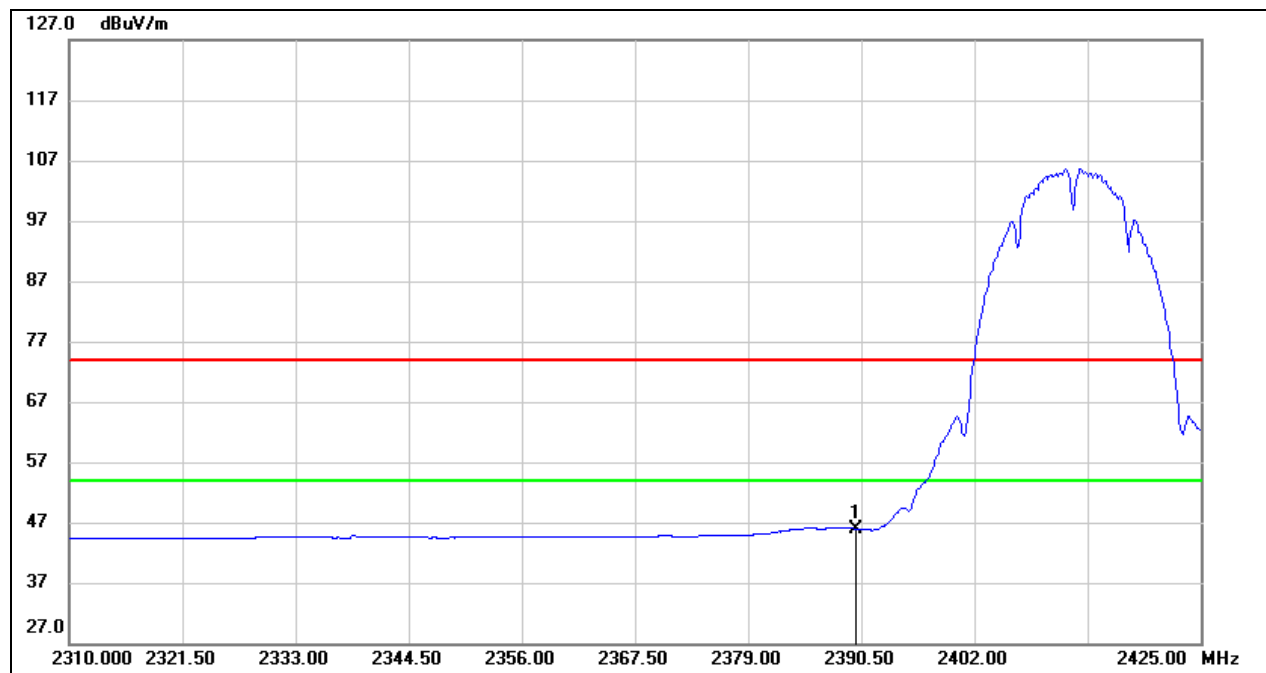


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2385.325           | 26.70               | 33.18           | 59.88              | 74.00             | -14.12         | peak   |
| 2   | 2390.000           | 25.50               | 33.14           | 58.64              | 74.00             | -15.36         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



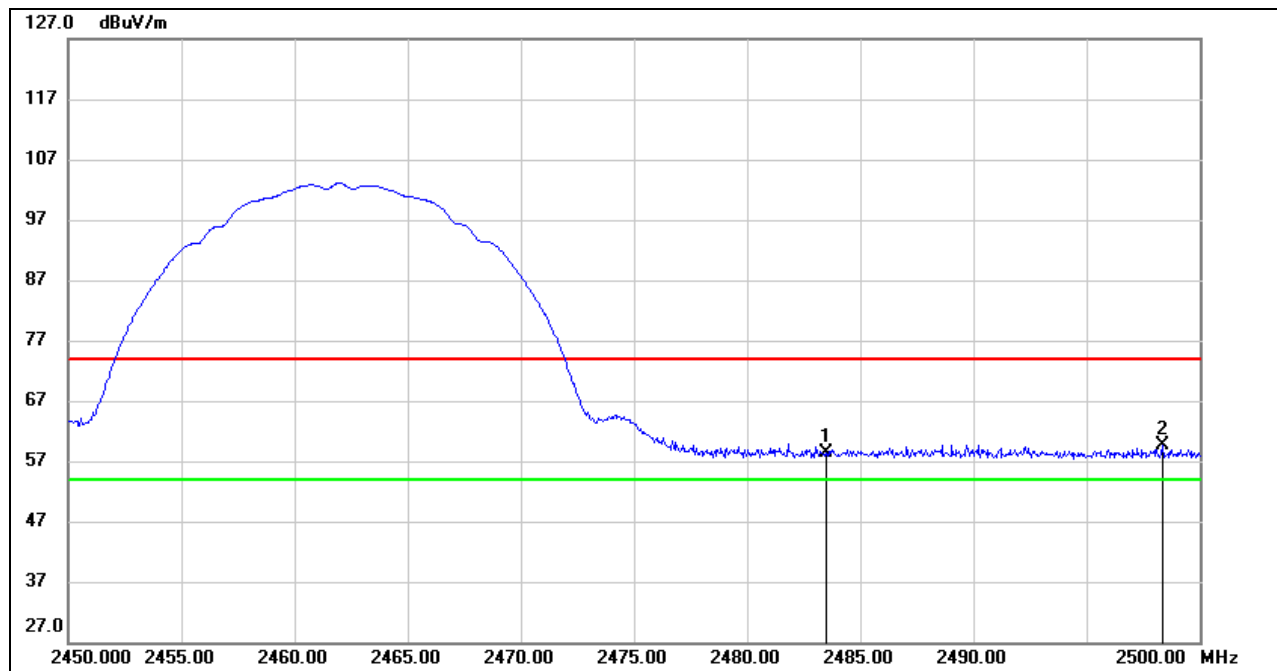
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 12.71               | 33.24           | 45.95              | 54.00             | -8.05          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11b HIGH CHANNEL, HORIZONTAL)**

**PEAK**

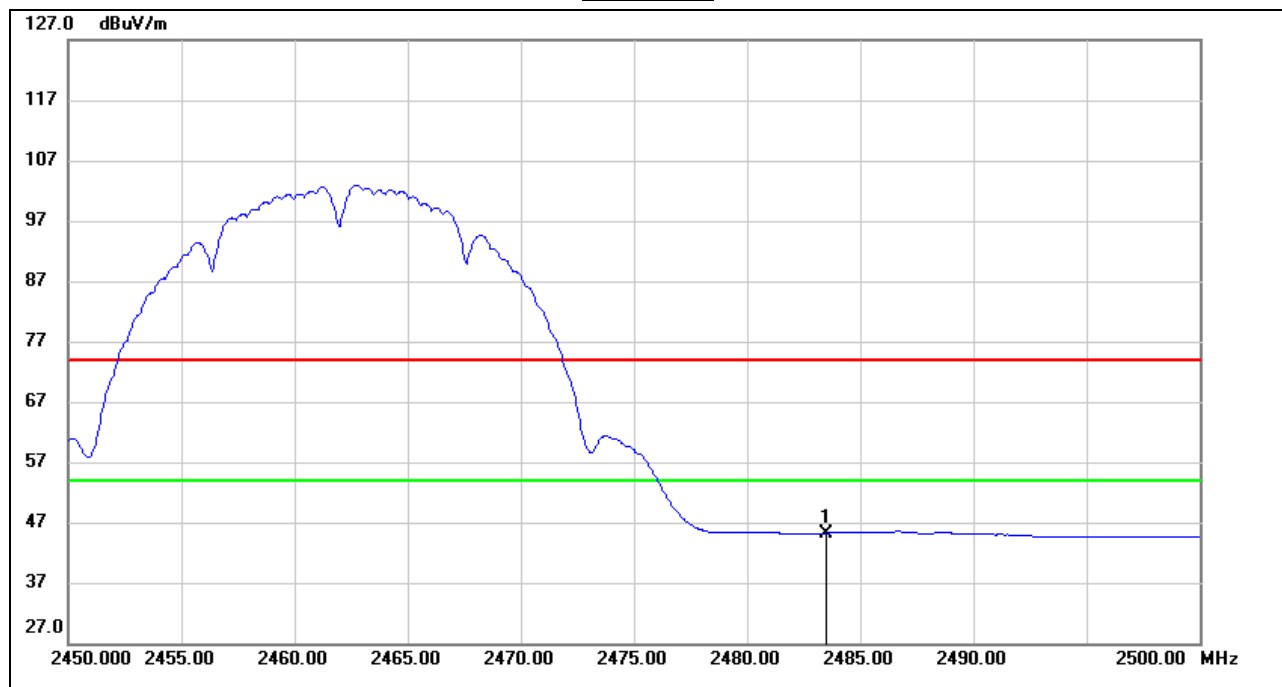


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 25.61               | 32.88           | 58.49              | 74.00             | -15.51         | peak   |
| 2   | 2498.350           | 26.84               | 32.87           | 59.71              | 74.00             | -14.29         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



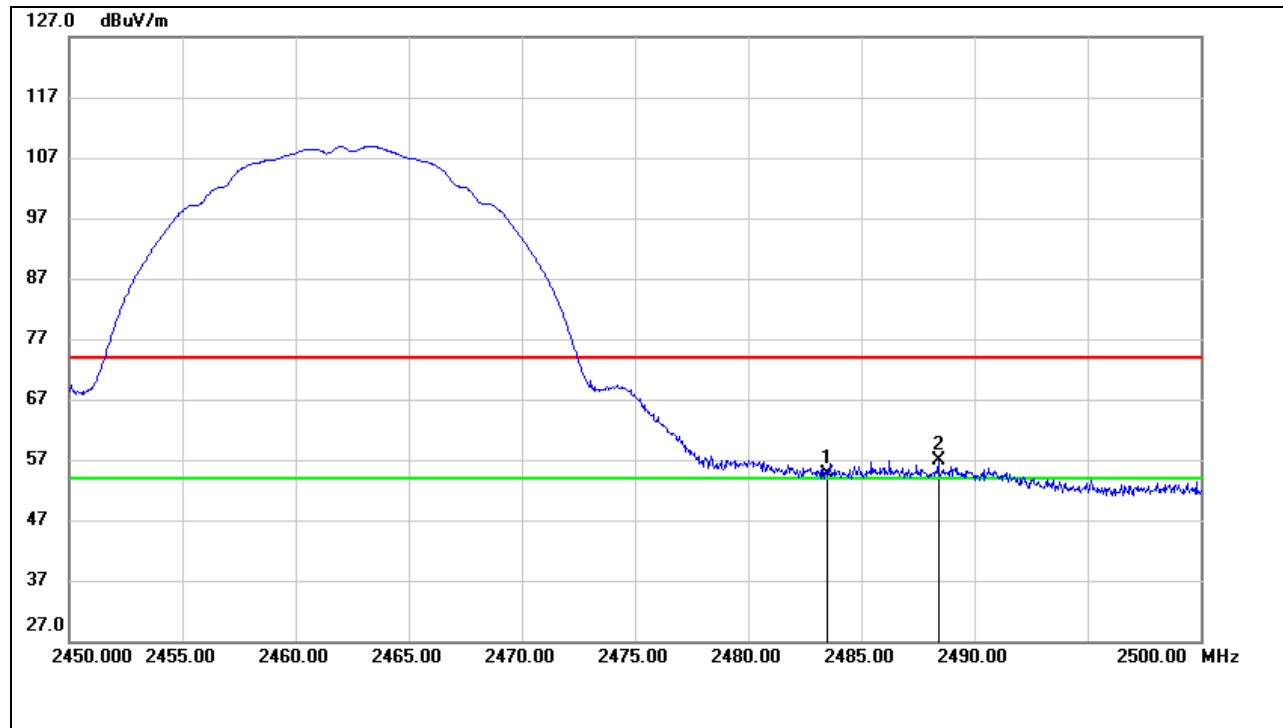
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 12.45               | 32.78           | 45.23              | 54.00             | -8.77          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11b HIGH CHANNEL, VERTICAL)**

**PEAK**

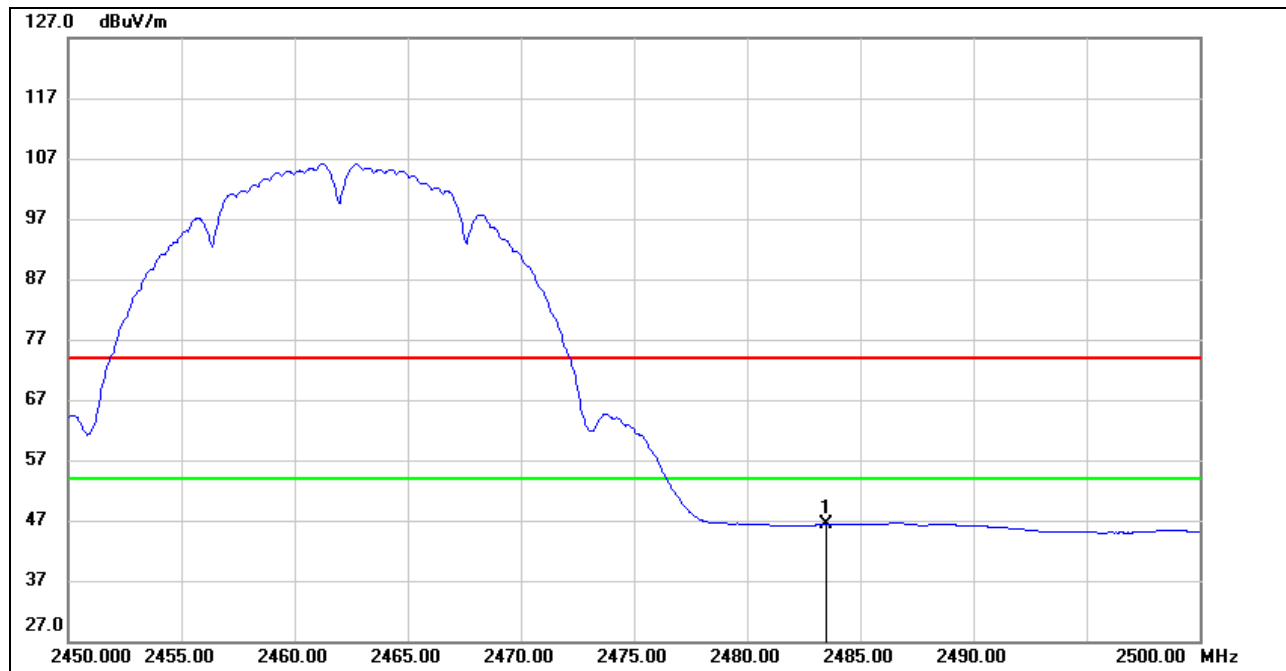


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 21.96               | 32.78           | 54.74              | 74.00             | -19.26         | peak   |
| 2   | 2488.400           | 24.11               | 32.78           | 56.89              | 74.00             | -17.11         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



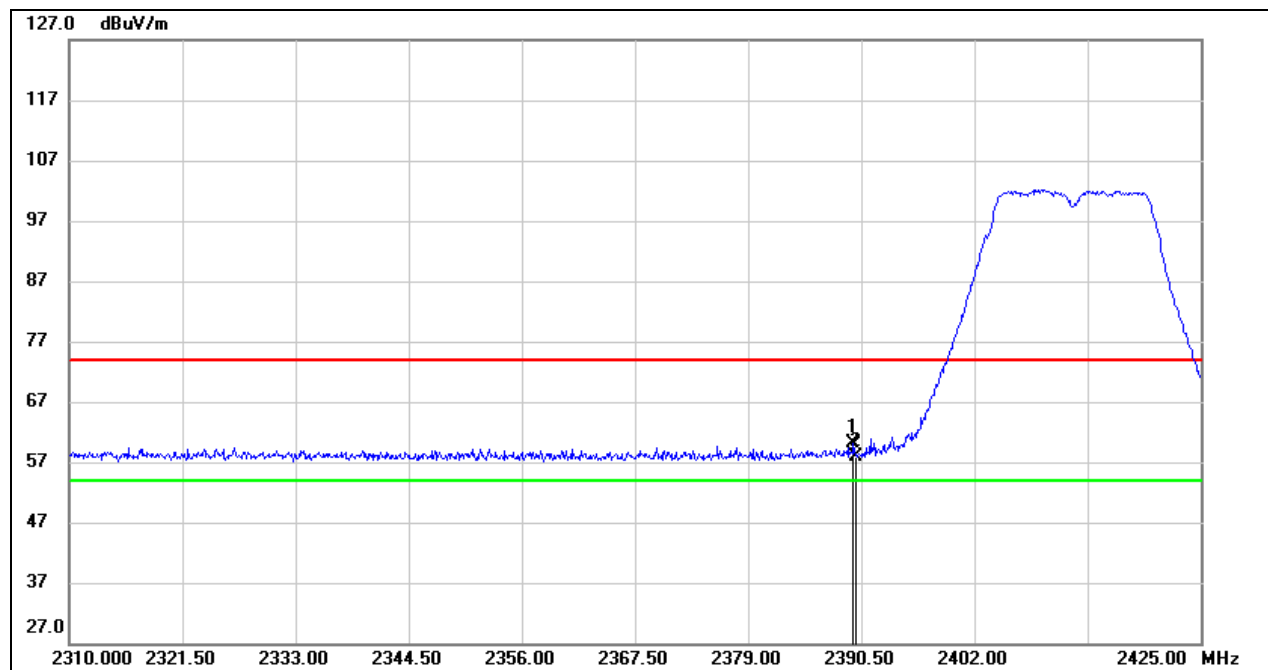
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 13.38               | 32.88           | 46.26              | 54.00             | -7.74          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11g LOW CHANNEL, HORIZONTAL)**

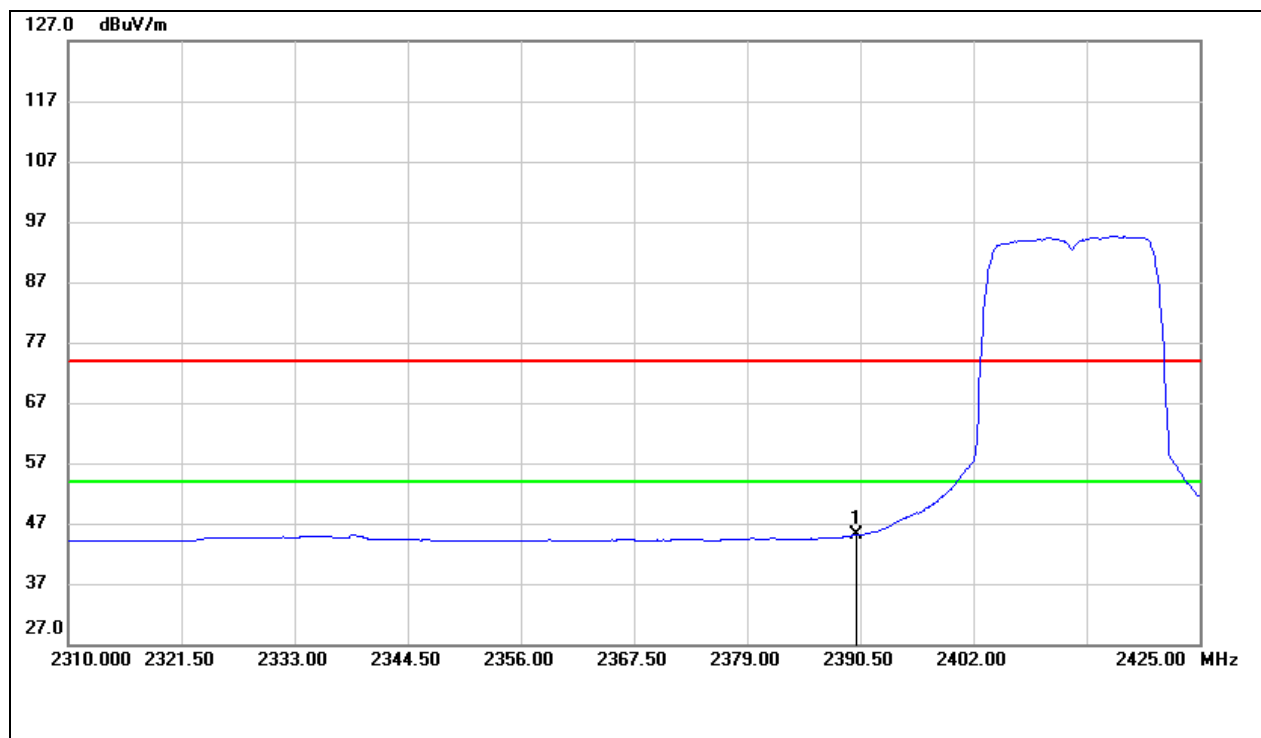
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2389.695           | 26.88               | 33.24           | 60.12              | 74.00             | -13.88         | peak   |
| 2   | 2390.000           | 24.75               | 33.24           | 57.99              | 74.00             | -16.01         | peak   |

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



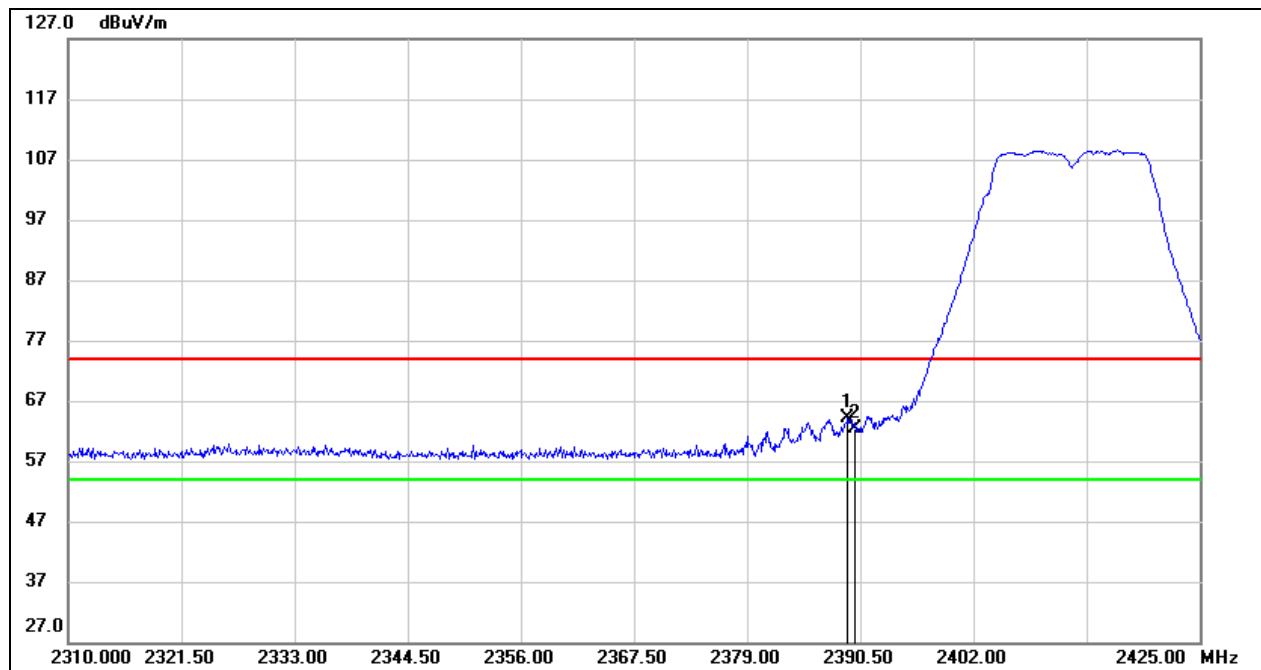
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 11.94               | 33.14           | 45.08              | 54.00             | -8.92          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11g LOW CHANNEL, VERTICAL)**

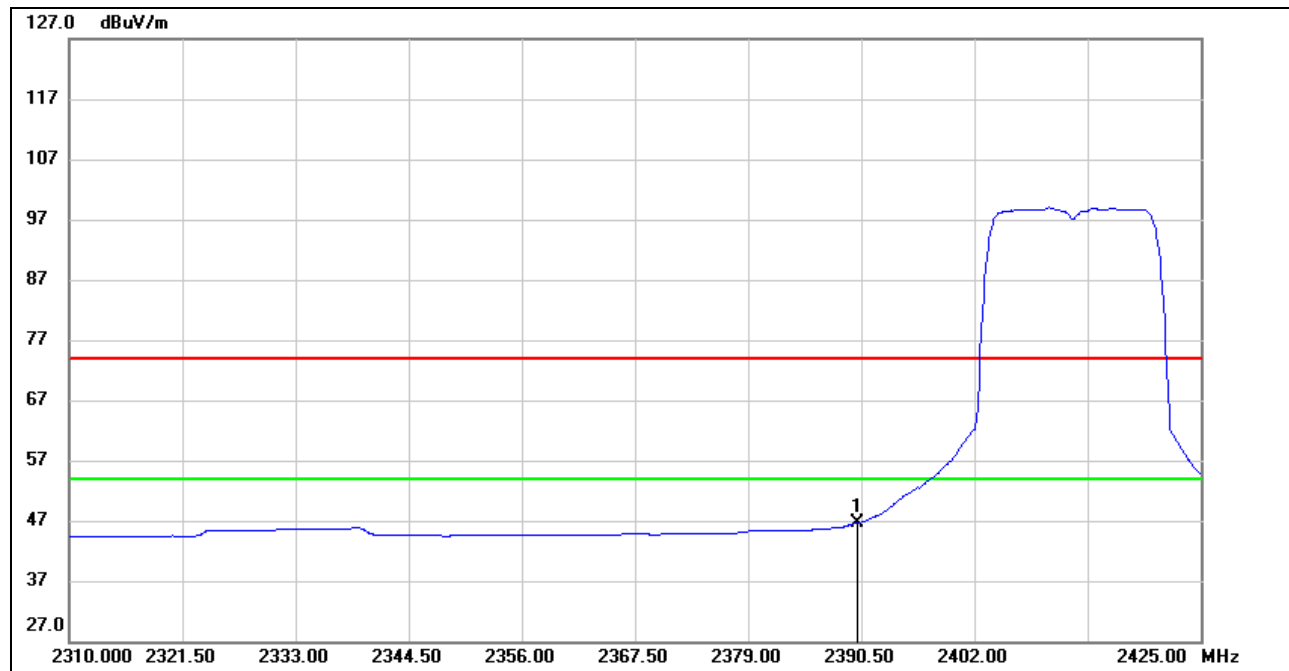
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2389.235           | 30.88               | 33.15           | 64.03              | 74.00             | -9.97          | peak   |
| 2   | 2390.000           | 29.33               | 33.14           | 62.47              | 74.00             | -11.53         | peak   |

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



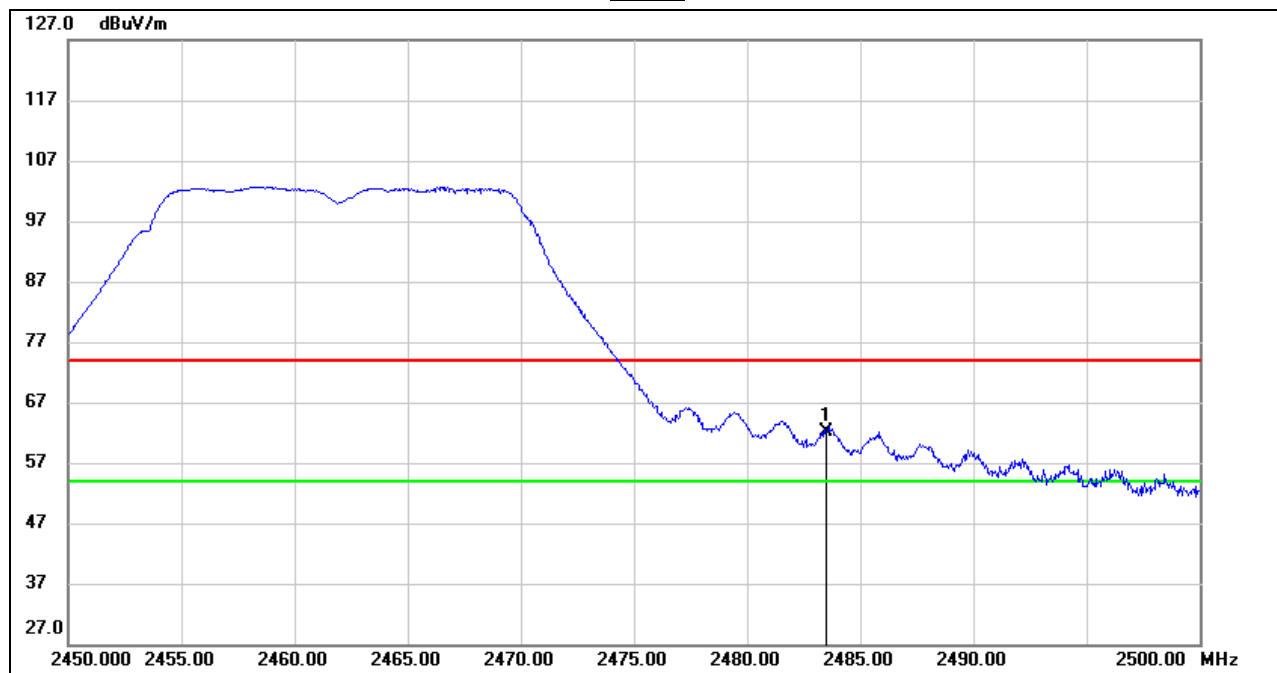
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 13.36               | 33.24           | 46.60              | 54.00             | -7.40          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11g HIGH CHANNEL, HORIZONTAL)**

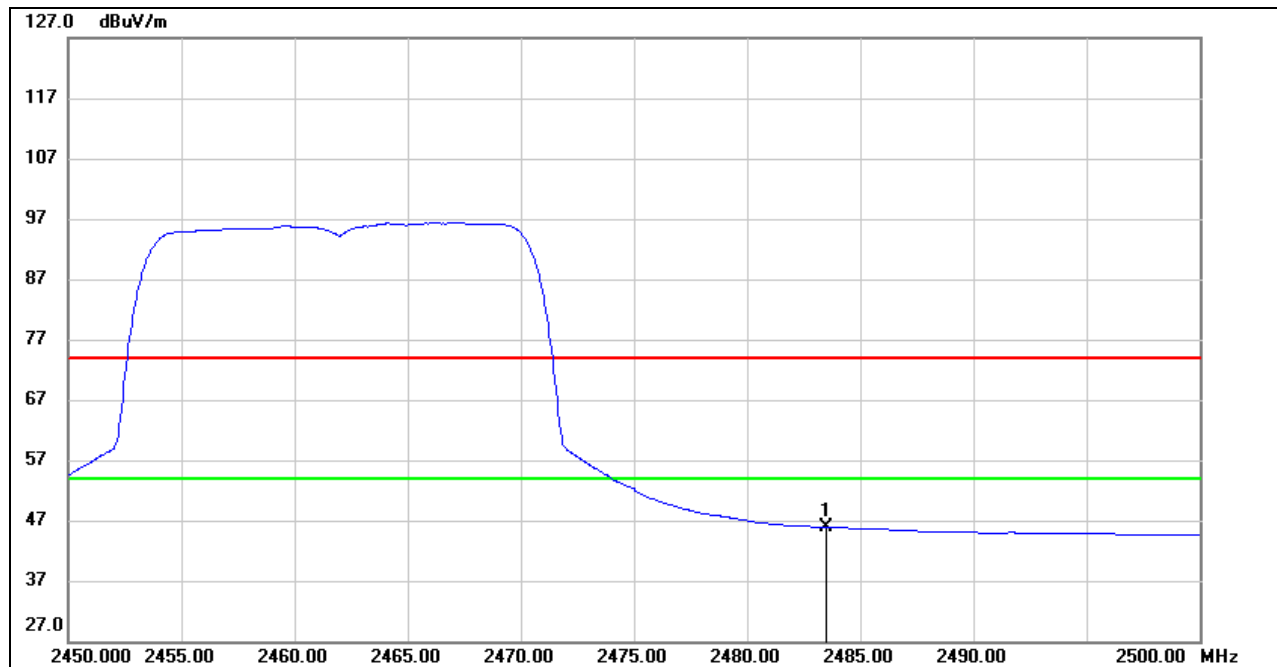
**PEAK**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 29.34               | 32.88           | 62.22              | 74.00             | -11.78         | peak   |

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

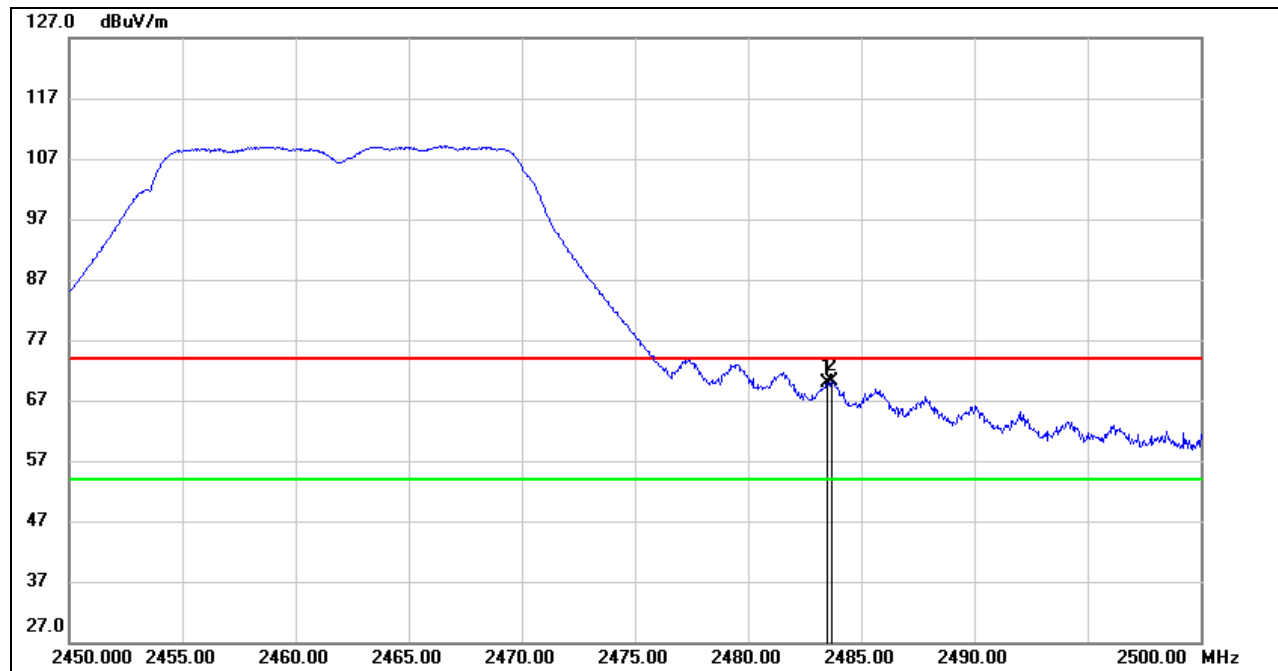
**AVERAGE**



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 13.12               | 32.78           | 45.90              | 54.00             | -8.10          | AVG    |

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11g HIGH CHANNEL, VERTICAL)**  
**PEAK**

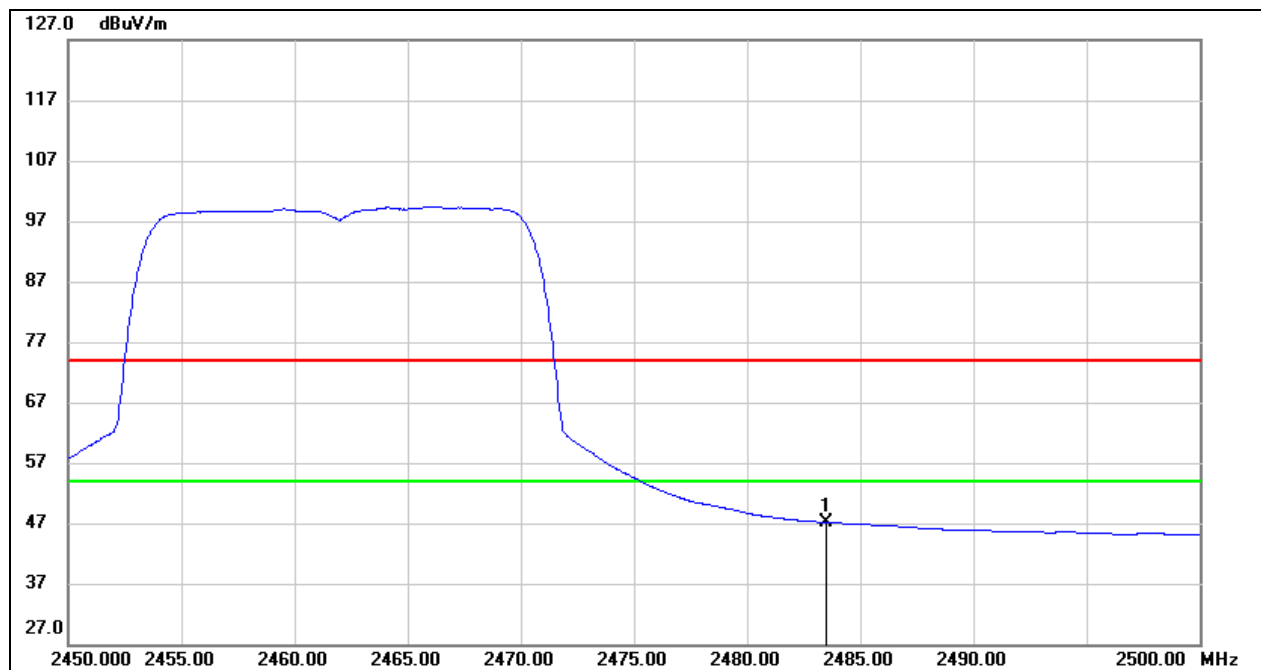


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 37.13               | 32.78           | 69.91              | 74.00             | -4.09          | peak   |
| 2   | 2483.700           | 37.29               | 32.78           | 70.07              | 74.00             | -3.93          | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



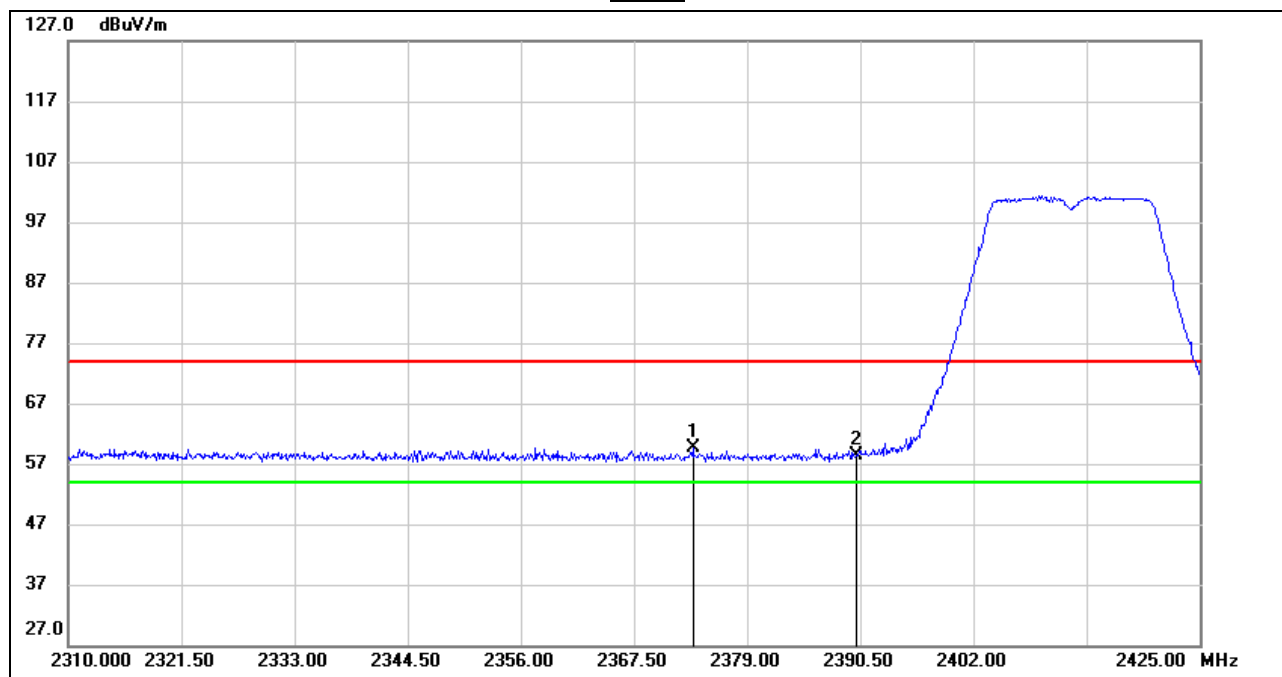
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 14.23               | 32.88           | 47.11              | 54.00             | -6.89          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/20 LOW CHANNEL, HORIZONTAL)**

**PEAK**

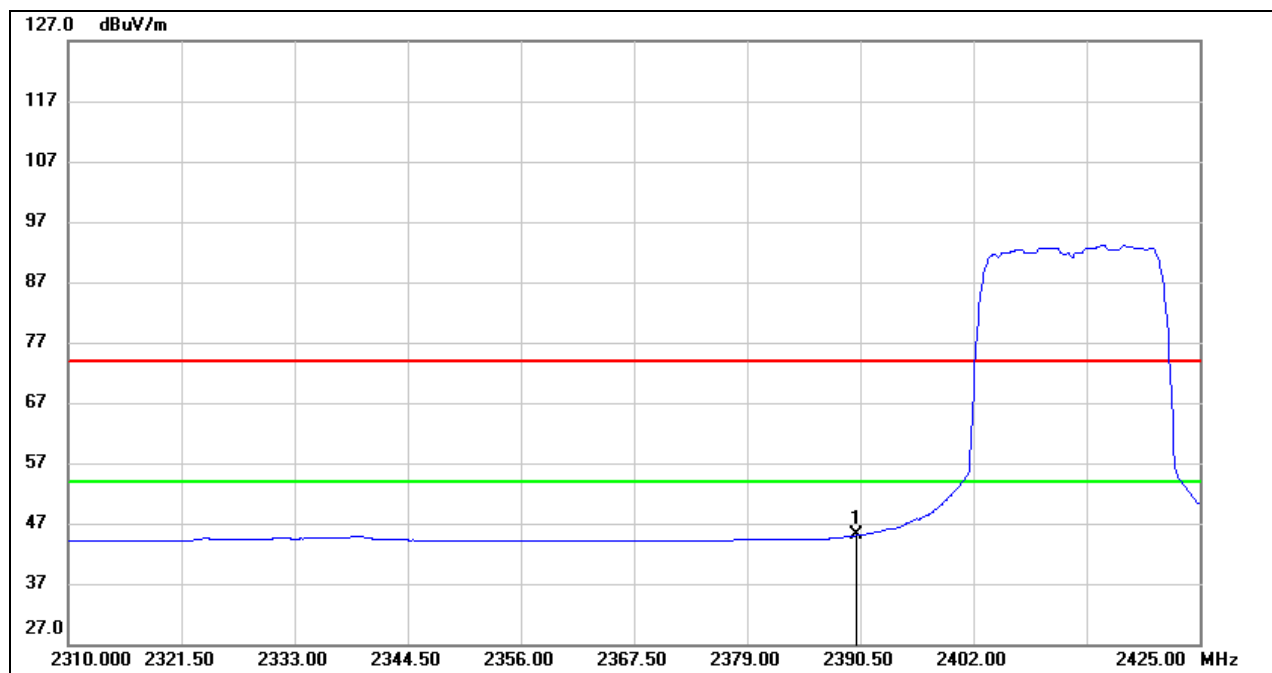


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2373.480           | 26.16               | 33.36           | 59.52              | 74.00             | -14.48         | peak   |
| 2   | 2390.000           | 25.04               | 33.24           | 58.28              | 74.00             | -15.72         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



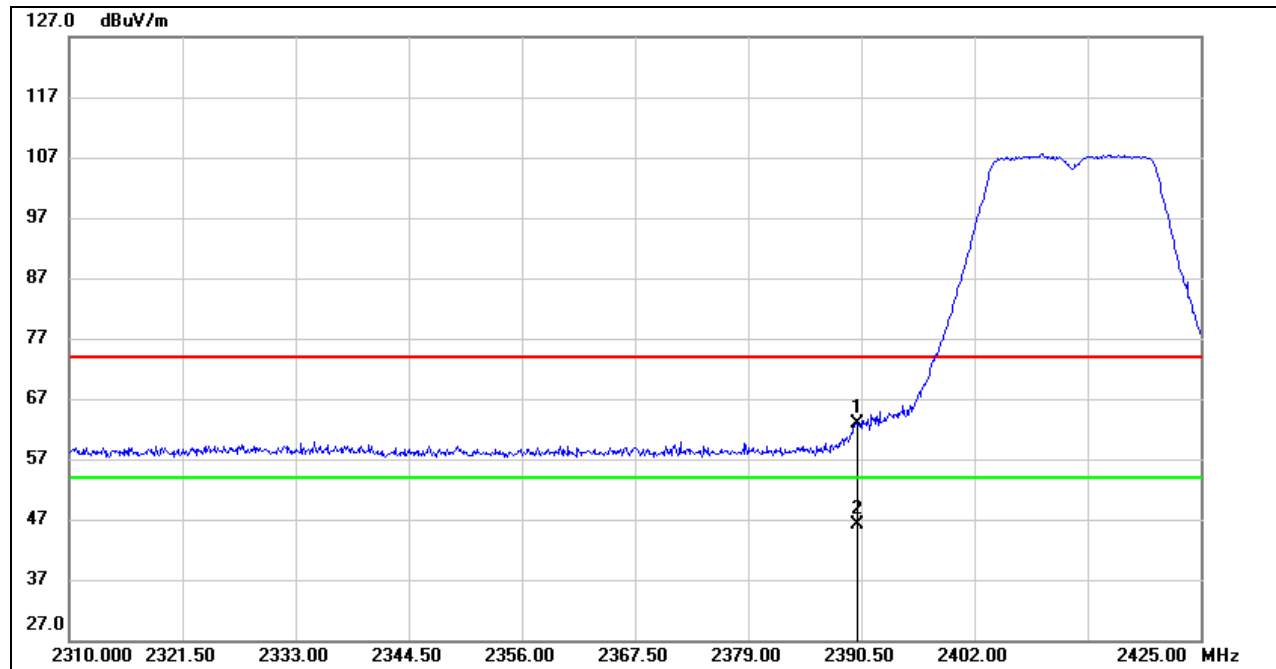
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 11.88               | 33.14           | 45.02              | 54.00             | -8.98          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/20 LOW CHANNEL, VERTICAL)**

**PEAK**

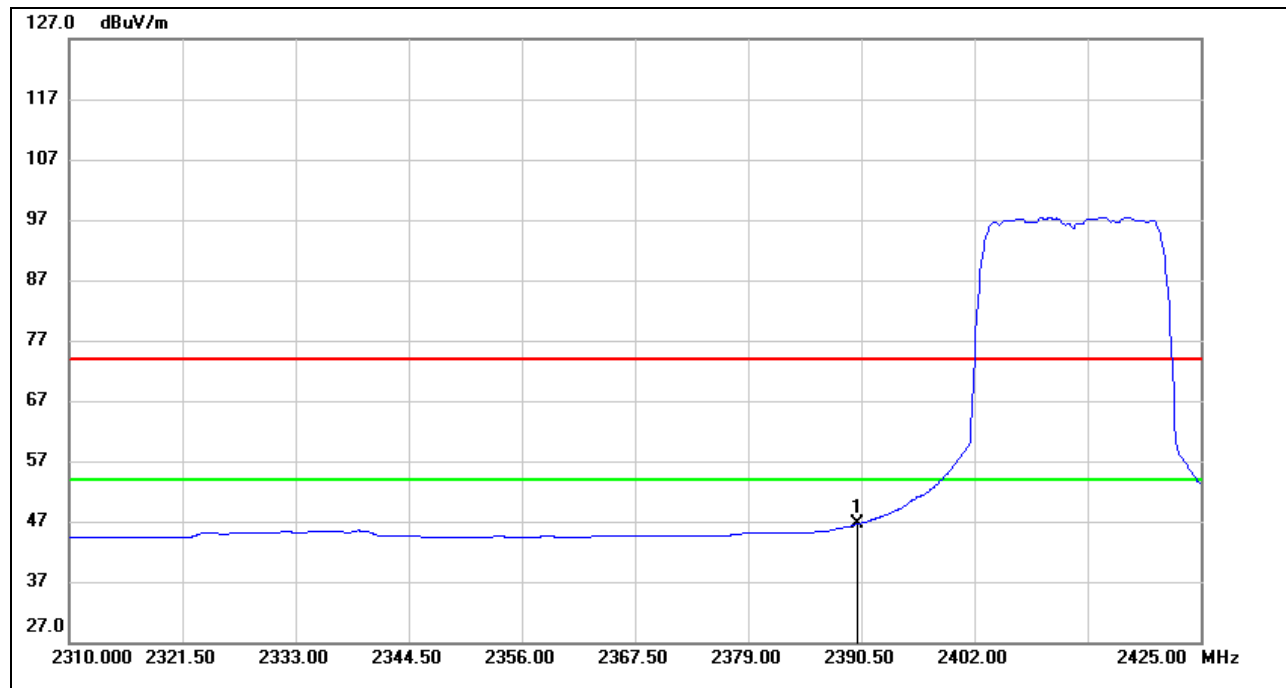


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 29.68               | 33.14           | 62.82              | 74.00             | -11.18         | peak   |
| 2   | 2390.000           | 13.10               | 33.14           | 46.24              | 54.00             | -7.76          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



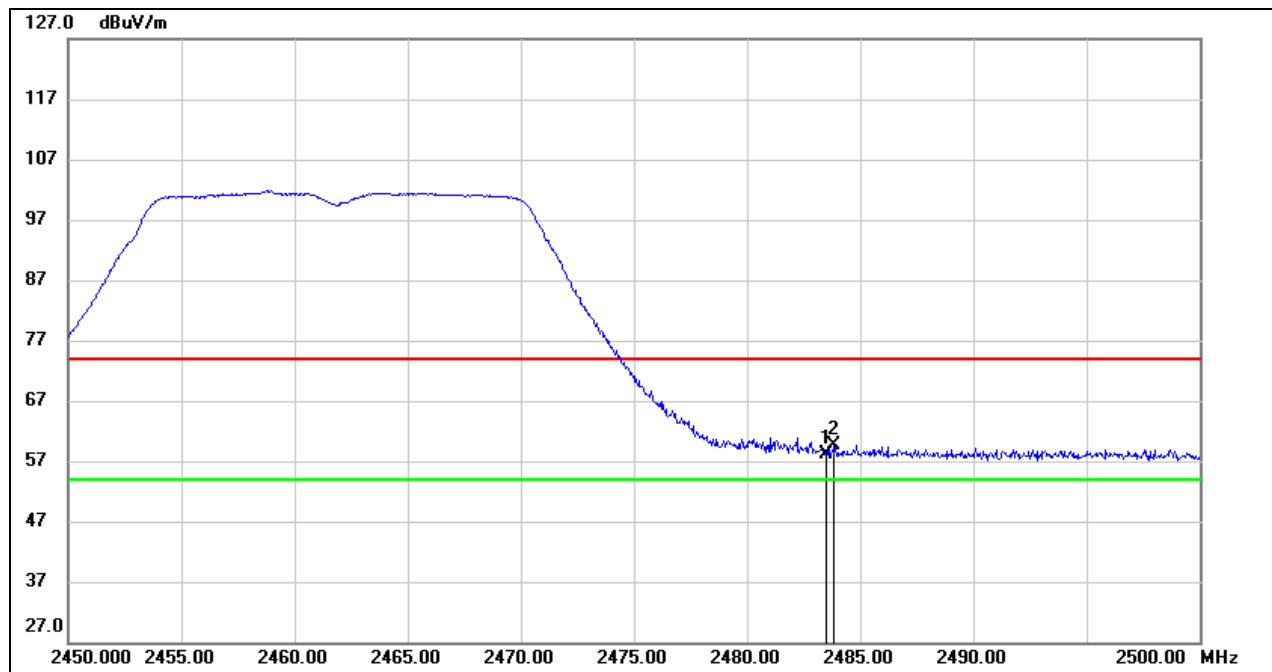
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 13.33               | 33.24           | 46.57              | 54.00             | -7.43          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/20 HIGH CHANNEL, HORIZONTAL)**

**PEAK**

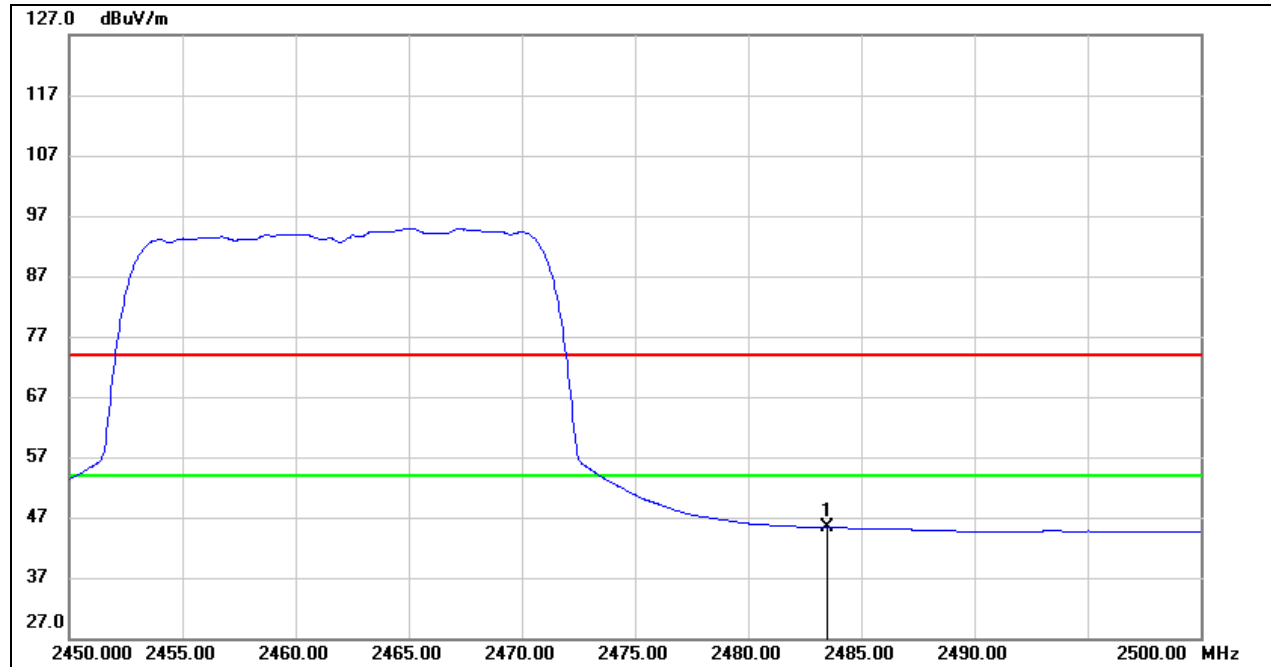


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 25.17               | 32.88           | 58.05              | 74.00             | -15.95         | peak   |
| 2   | 2483.850           | 26.74               | 32.88           | 59.62              | 74.00             | -14.38         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



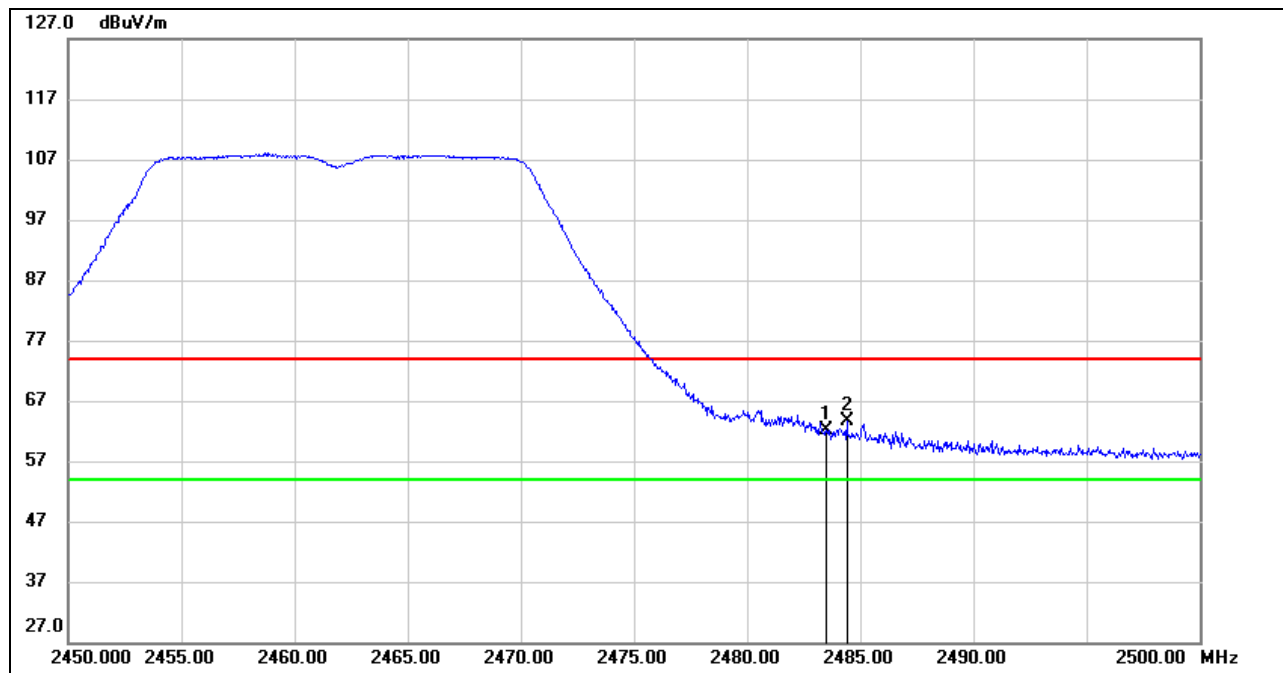
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 12.55               | 32.78           | 45.33              | 54.00             | -8.67          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/20 HIGH CHANNEL, VERTICAL)**

**PEAK**

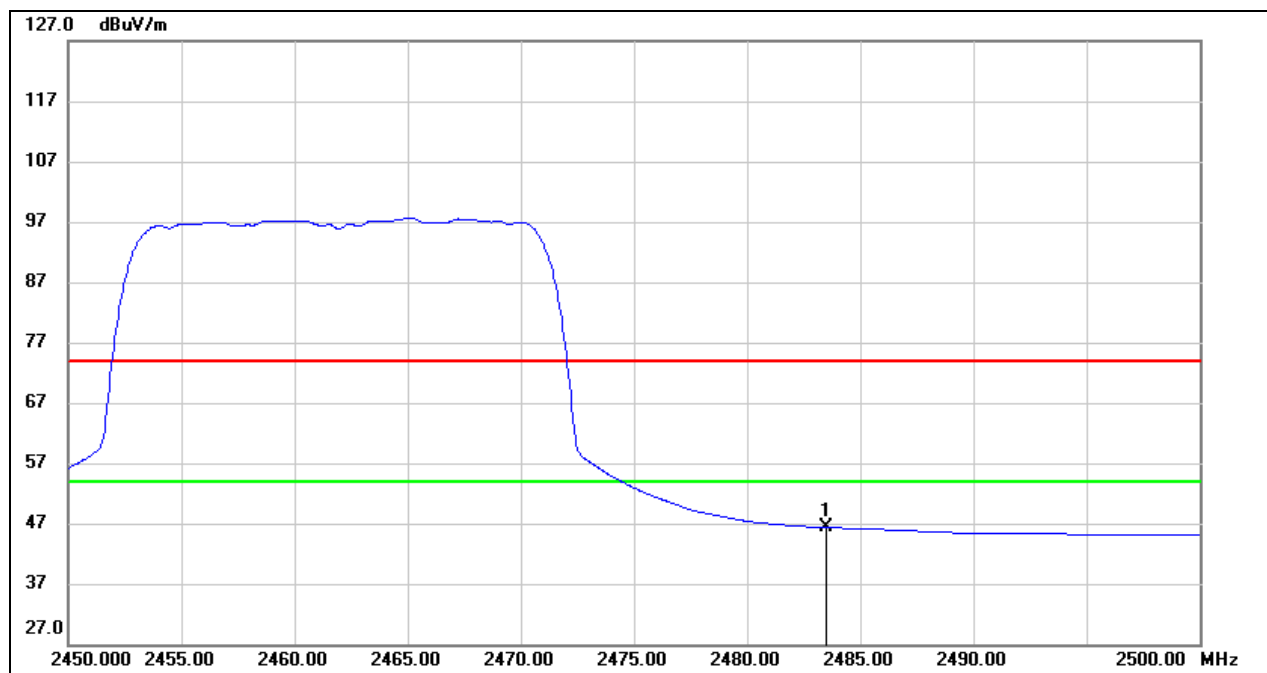


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 29.45               | 32.78           | 62.23              | 74.00             | -11.77         | peak   |
| 2   | 2484.400           | 30.89               | 32.78           | 63.67              | 74.00             | -10.33         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



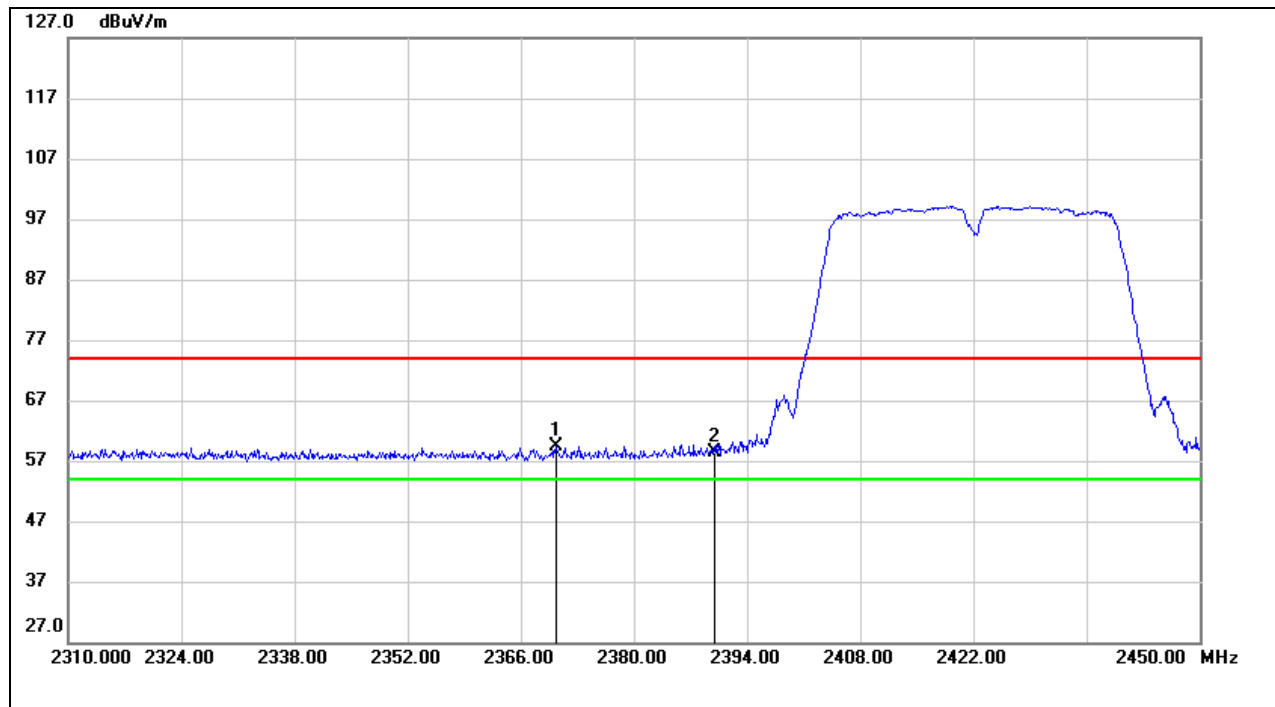
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 13.39               | 32.88           | 46.27              | 54.00             | -7.73          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/40 LOW CHANNEL, HORIZONTAL)**

**PEAK**

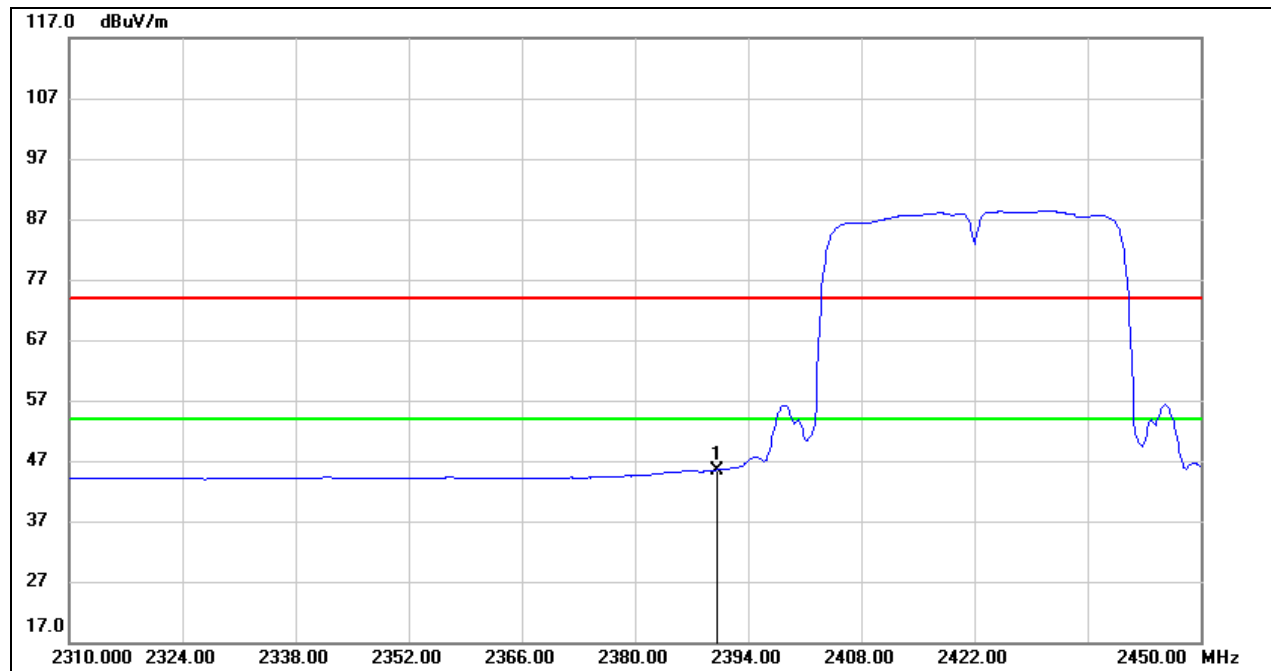


| No. | Frequency<br>(MHz) |          | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|----------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2370.340           | Reading  | 33.29           | 59.40              | 74.00             | -14.60         | peak   |
| 2   | 2390.000           | (dBuV/m) | 33.14           | 58.30              | 74.00             | -15.70         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



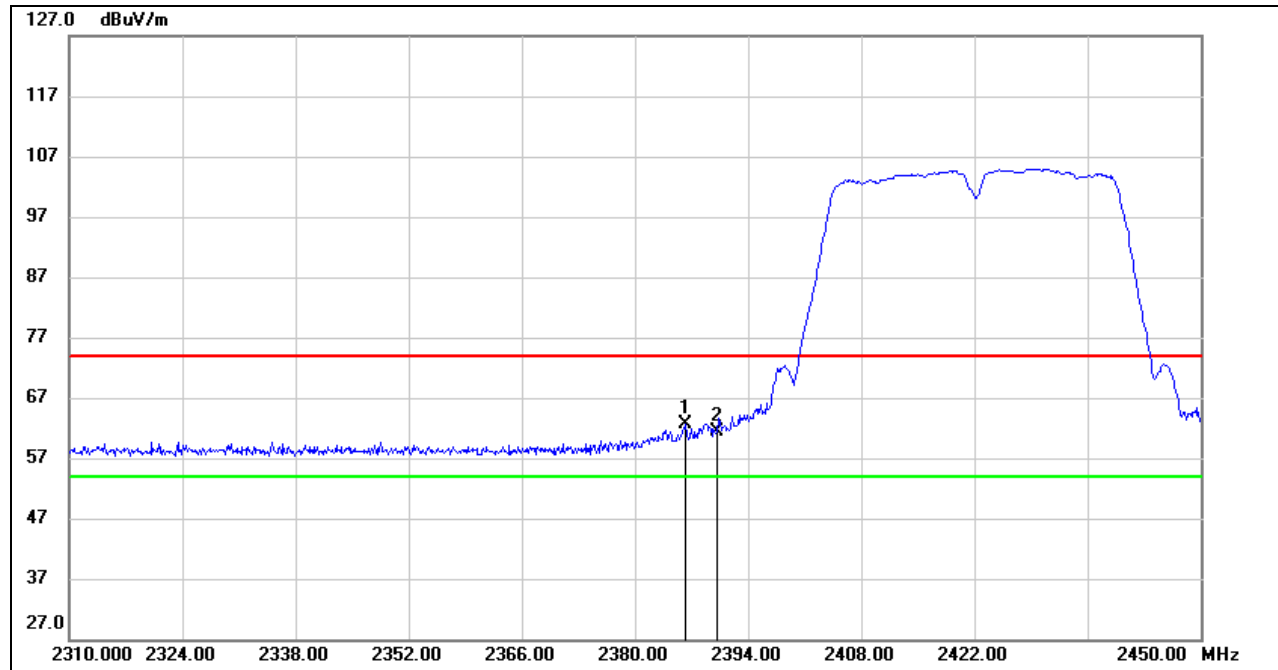
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 12.36               | 33.14           | 45.50              | 54.00             | -8.50          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/40 LOW CHANNEL, VERTICAL)**

**PEAK**

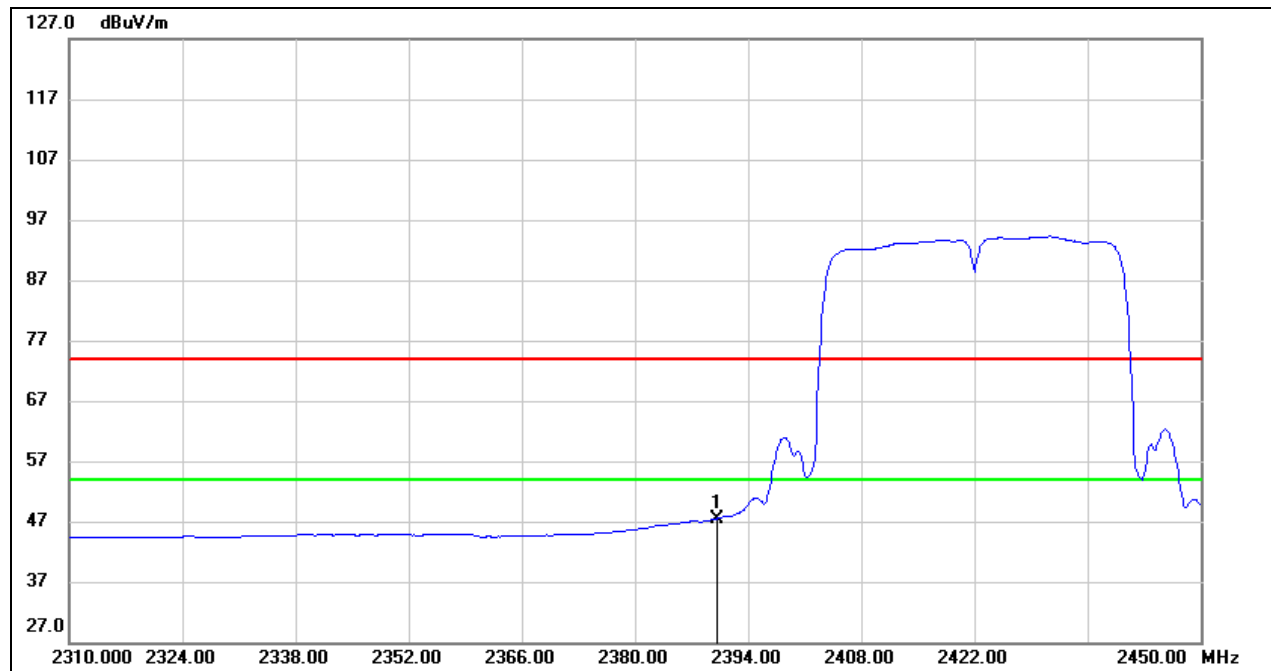


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2386.300           | 29.41               | 33.27           | 62.68              | 74.00             | -11.32         | peak   |
| 2   | 2390.000           | 28.06               | 33.24           | 61.30              | 74.00             | -12.70         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



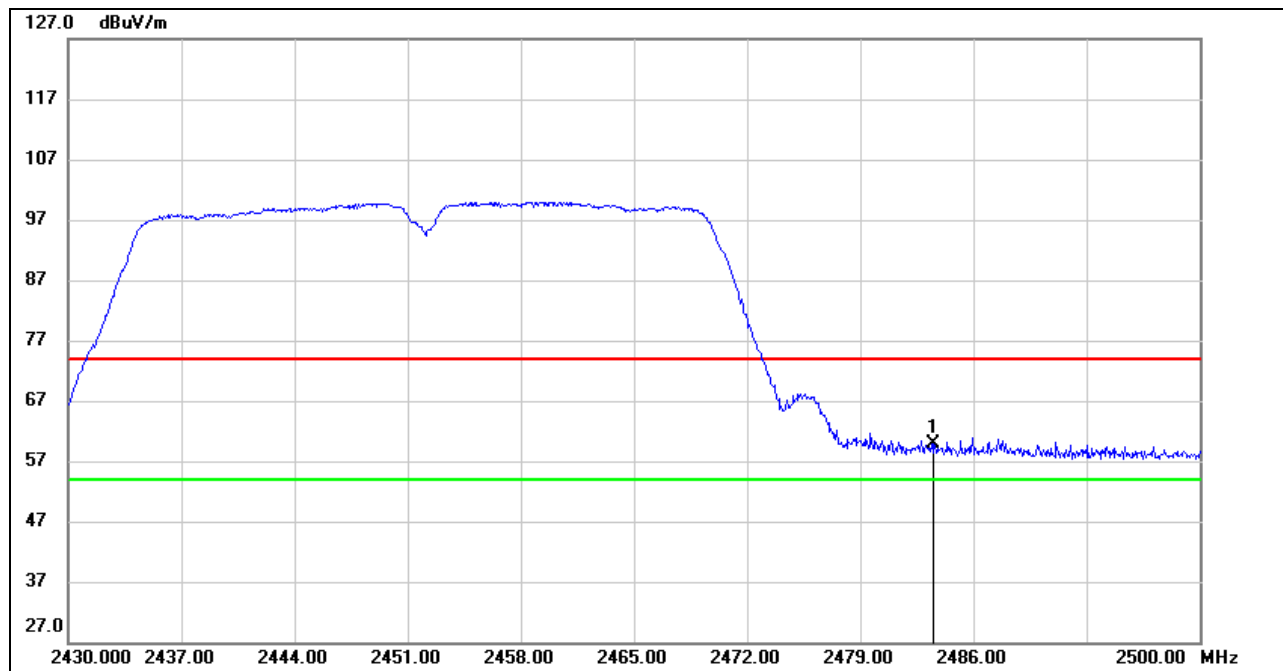
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2390.000           | 14.26               | 33.24           | 47.50              | 54.00             | -6.50          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/40 HIGH CHANNEL, HORIZONTAL)**

**PEAK**

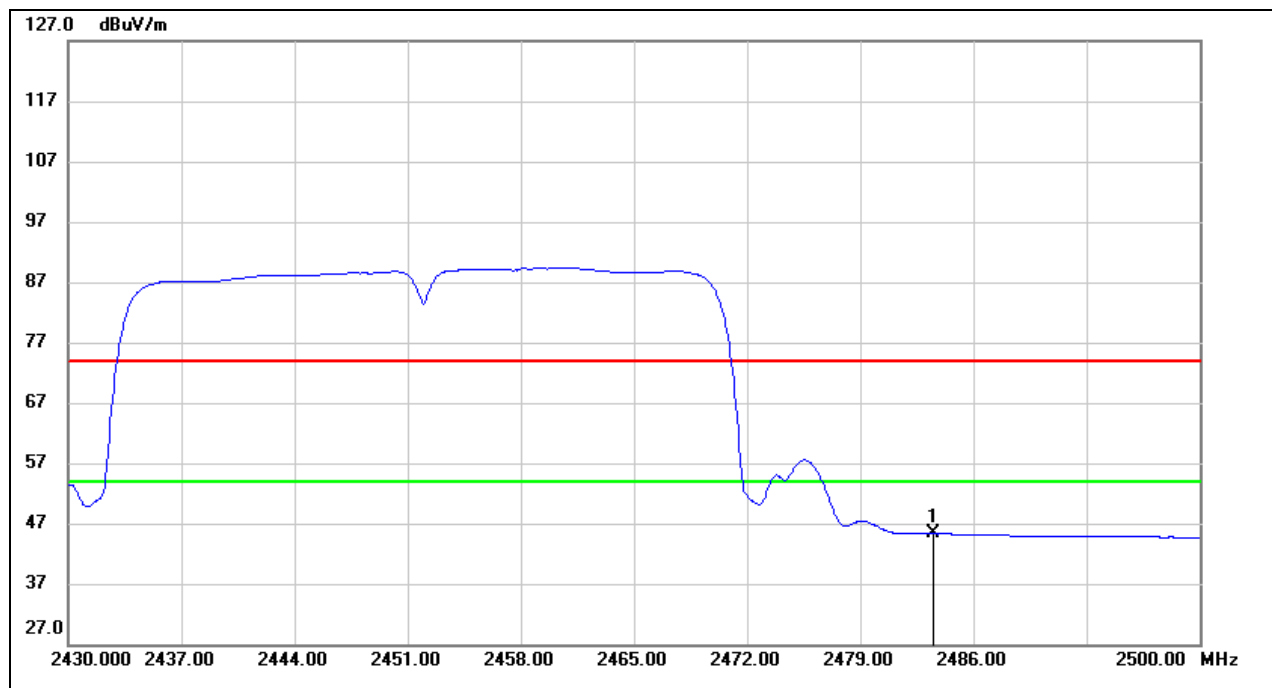


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 27.00               | 32.78           | 59.78              | 74.00             | -14.22         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



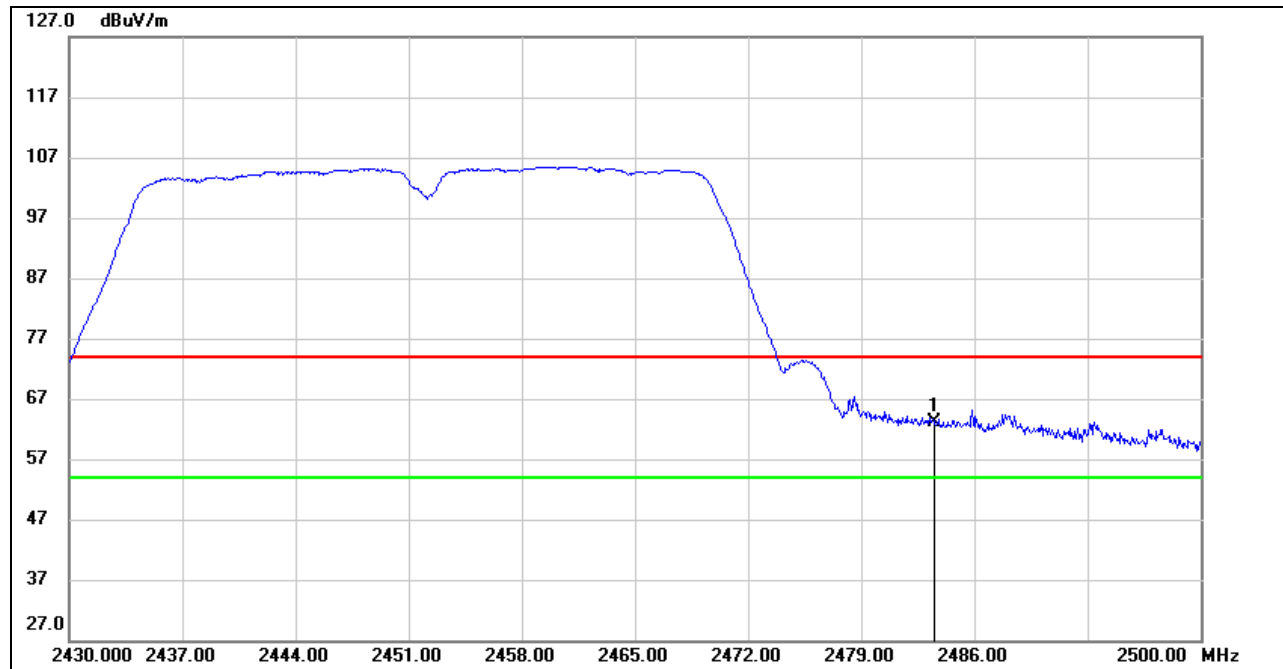
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 12.52               | 32.78           | 45.30              | 54.00             | -8.70          | AVG    |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**RESTRICTED BANDEDGE (11n/40 HIGH CHANNEL, VERTICAL)**

**PEAK**

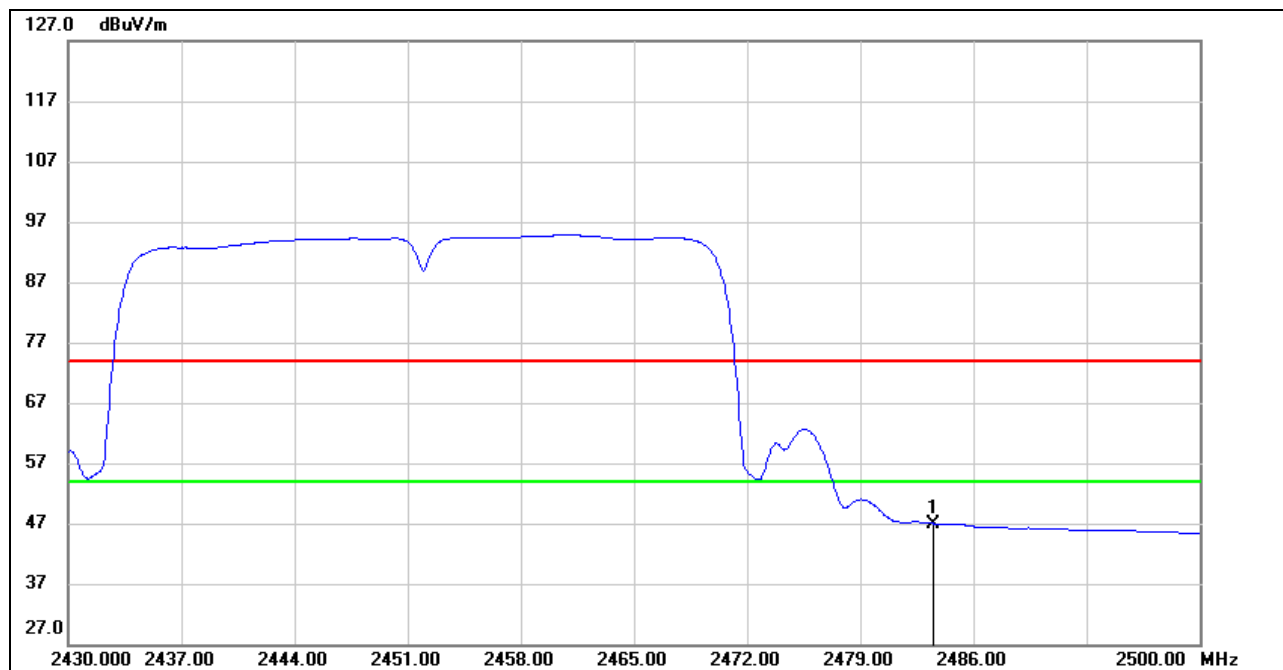


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 30.24               | 32.88           | 63.12              | 74.00             | -10.88         | peak   |

Note:

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

**AVERAGE**



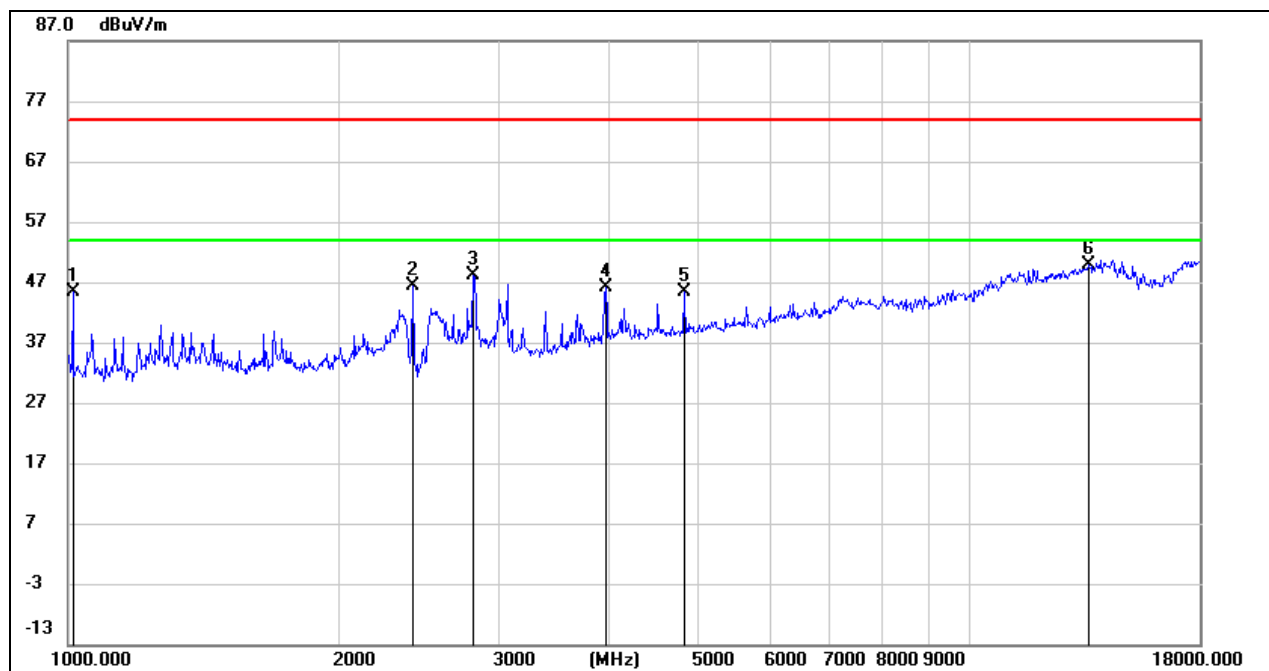
| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 2483.500           | 14.11               | 32.88           | 46.99              | 54.00             | -7.01          | AVG    |

1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

### 8.3. SPURIOUS EMISSIONS (1~18GHz)

#### HARMONICS AND SPURIOUS EMISSION

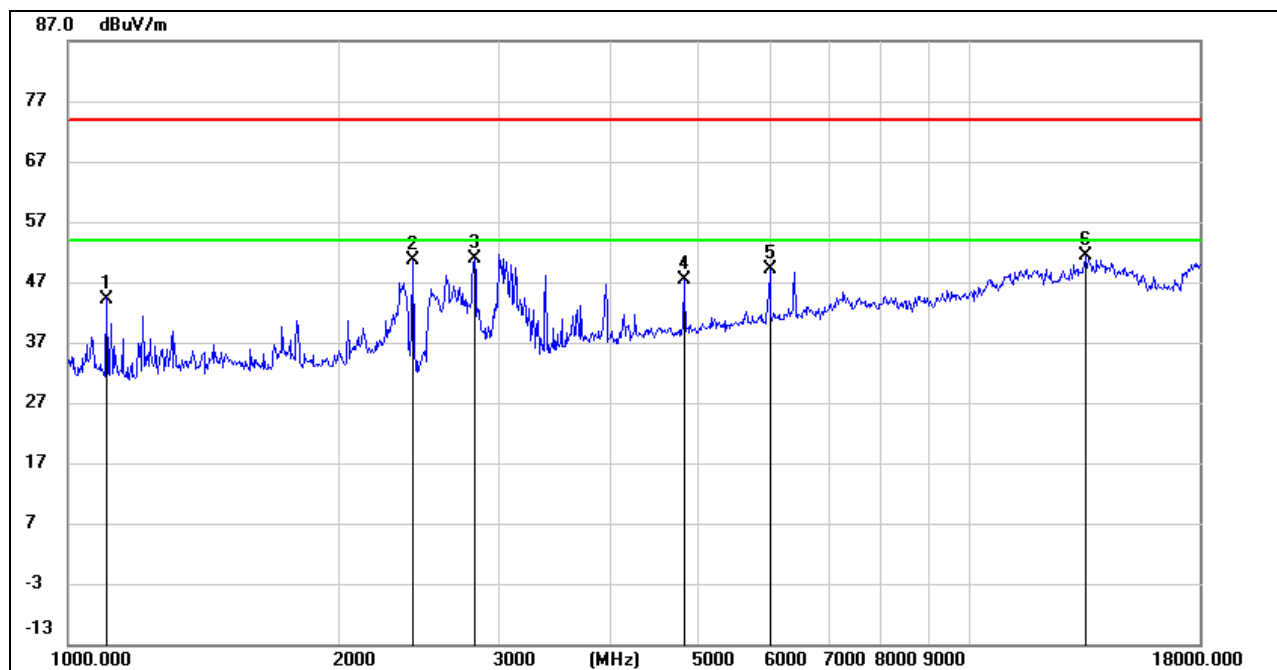
|            |                |                |            |
|------------|----------------|----------------|------------|
| EUT:       | IP Camera      | Polarization : | Horizontal |
| Test Mode: | 11b Low Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1014.557        | 60.08            | -14.58       | 45.50           | 74.00          | -28.50      | peak   |
| 2   | 2414.672        | 55.47            | -9.06        | 46.41           | 74.00          | -27.59      | peak   |
| 3   | 2814.411        | 55.66            | -7.52        | 48.14           | 74.00          | -25.86      | peak   |
| 4   | 3946.885        | 50.63            | -4.43        | 46.20           | 74.00          | -27.80      | peak   |
| 5   | 4831.962        | 46.82            | -1.44        | 45.38           | 74.00          | -28.62      | peak   |
| 6   | 13559.879       | 30.99            | 18.85        | 49.84           | 74.00          | -24.16      | peak   |

- Note: 1. Result Level = Read Level + Antenna Factor + Cable loss - PRM Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Test setup: RBW: 1 MHz, VBW: 3 MHz, Sweep time: auto.

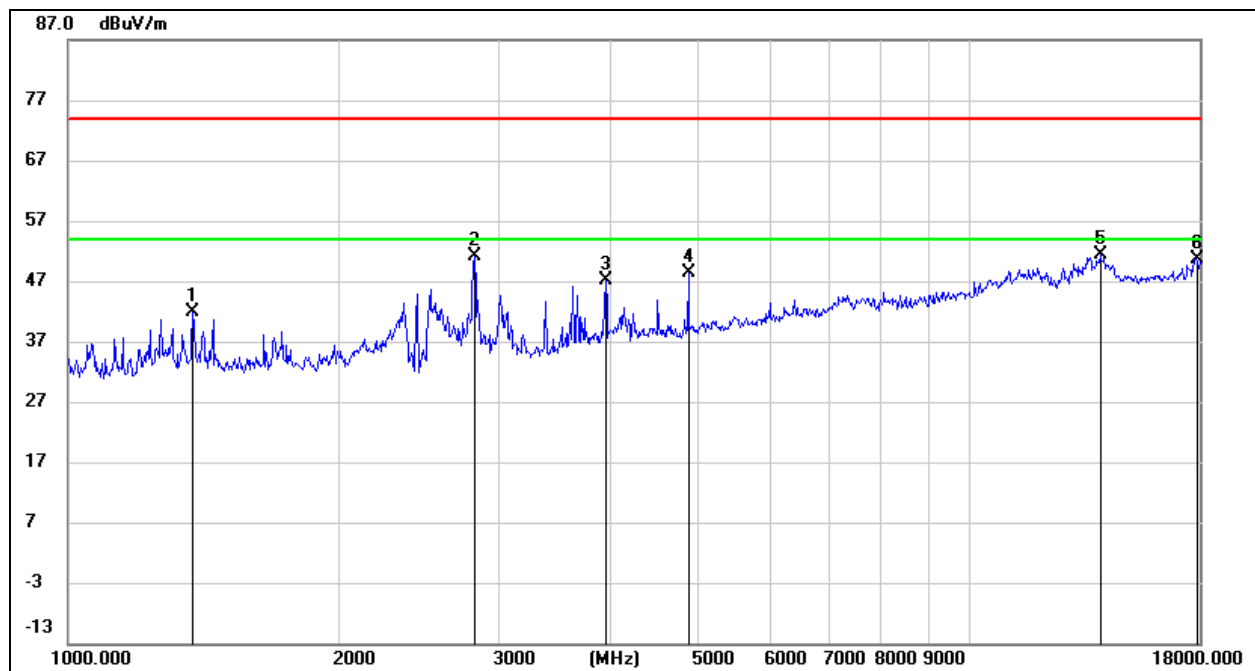
|            |                 |                |          |
|------------|-----------------|----------------|----------|
| EUT:       | IP Camera       | Polarization : | Vertical |
| Test Mode: | 11b Low Channel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1103.264        | 58.49            | -14.24       | 44.25           | 74.00          | -29.75      | peak   |
| 2   | 2414.672        | 59.71            | -8.96        | 50.75           | 74.00          | -23.25      | peak   |
| 3   | 2822.558        | 58.33            | -7.49        | 50.84           | 74.00          | -23.16      | peak   |
| 4   | 4831.962        | 48.73            | -1.41        | 47.32           | 74.00          | -26.68      | peak   |
| 5   | 6001.626        | 46.94            | 2.10         | 49.04           | 74.00          | -24.96      | peak   |
| 6   | 13481.718       | 32.45            | 18.89        | 51.34           | 74.00          | -22.66      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

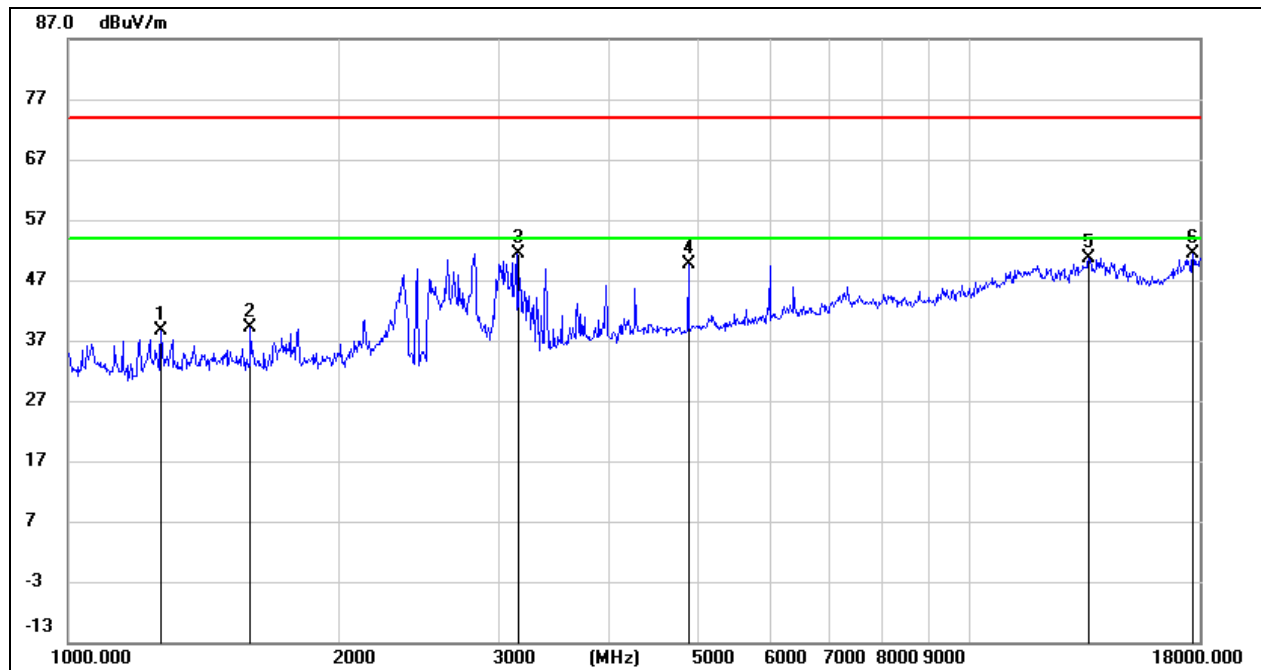
|            |                   |                |            |
|------------|-------------------|----------------|------------|
| EUT:       | IP Camera         | Polarization : | Horizontal |
| Test Mode: | 11b Middle Chanel |                |            |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1374.295           | 54.65               | -12.69          | 41.96              | 74.00             | -32.04         | peak   |
| 2   | 2822.558           | 58.64               | -7.49           | 51.15              | 74.00             | -22.85         | peak   |
| 3   | 3946.885           | 51.60               | -4.43           | 47.17              | 74.00             | -26.83         | peak   |
| 4   | 4874.043           | 49.30               | -0.95           | 48.35              | 74.00             | -25.65         | peak   |
| 5   | 13957.529          | 32.32               | 18.95           | 51.27              | 74.00             | -22.73         | peak   |
| 6   | 17896.247          | 24.99               | 25.75           | 50.74              | 74.00             | -23.26         | 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 transmit duration.

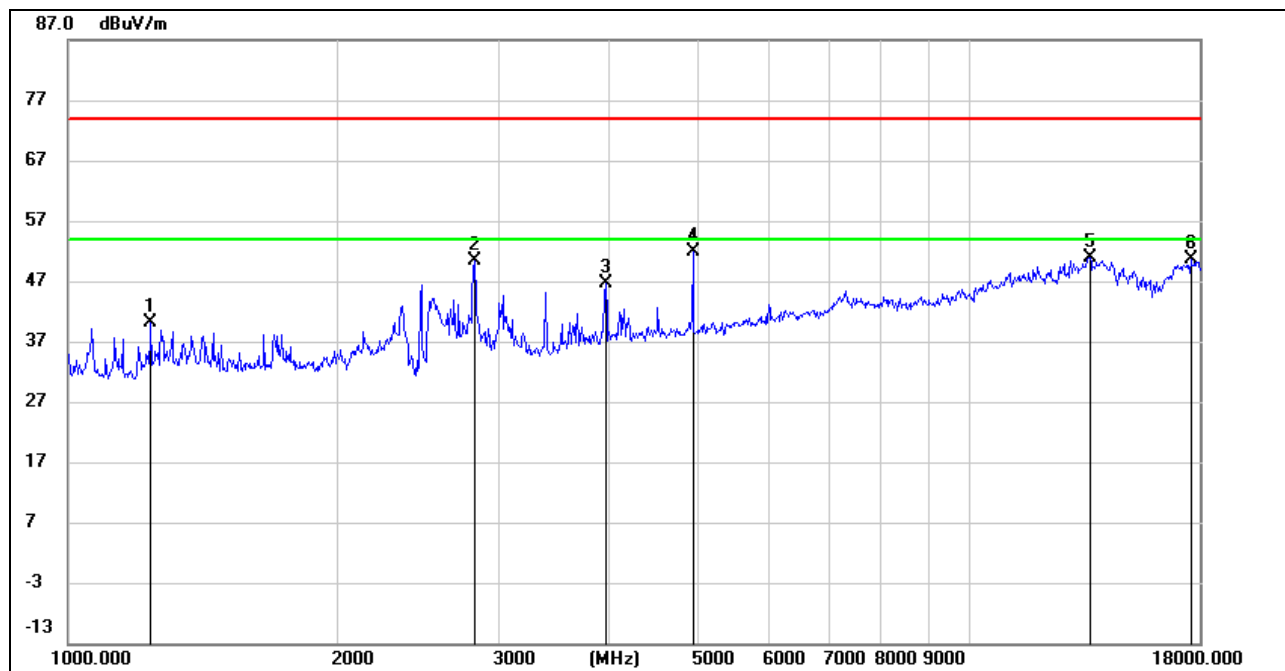
|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11b Middle Channel |                |          |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1267.454           | 51.65               | -13.08          | 38.57              | 74.00             | -35.43         | peak   |
| 2   | 1592.571           | 51.95               | -12.71          | 39.24              | 74.00             | -34.76         | peak   |
| 3   | 3150.237           | 57.85               | -6.48           | 51.37              | 74.00             | -22.63         | peak   |
| 4   | 4874.043           | 50.70               | -1.00           | 49.70              | 74.00             | -24.30         | peak   |
| 5   | 13559.879          | 31.42               | 19.29           | 50.71              | 74.00             | -23.29         | peak   |
| 6   | 17690.531          | 26.49               | 24.78           | 51.27              | 74.00             | -22.73         | 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. AVG: VBW=1/Ton where: ton is transmit duration.

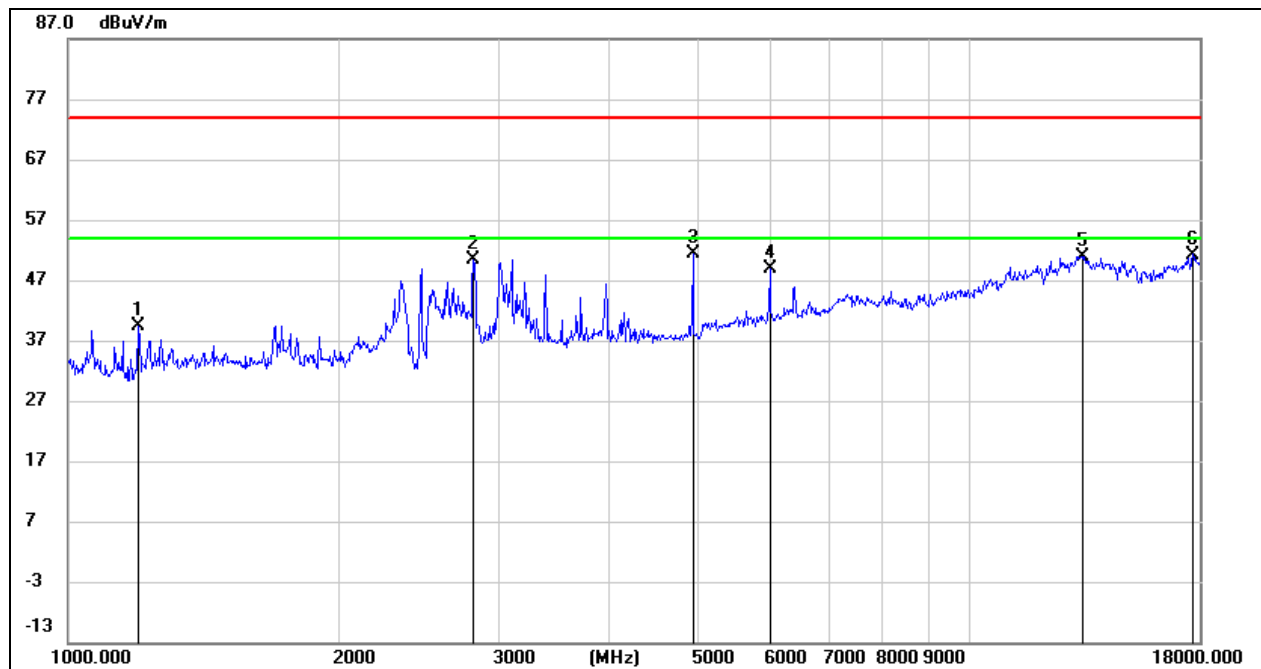
|            |                 |                |            |
|------------|-----------------|----------------|------------|
| EUT:       | IP Camera       | Polarization : | Horizontal |
| Test Mode: | 11b High Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1234.909        | 53.39            | -13.29       | 40.10           | 74.00          | -33.90      | peak   |
| 2   | 2822.558        | 57.81            | -7.49        | 50.32           | 74.00          | -23.68      | peak   |
| 3   | 3946.885        | 50.99            | -4.43        | 46.56           | 74.00          | -27.44      | peak   |
| 4   | 4930.721        | 52.63            | -0.72        | 51.91           | 74.00          | -22.09      | peak   |
| 5   | 13599.128       | 31.79            | 19.04        | 50.83           | 74.00          | -23.17      | peak   |
| 6   | 17639.473       | 26.79            | 23.73        | 50.52           | 74.00          | -23.48      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

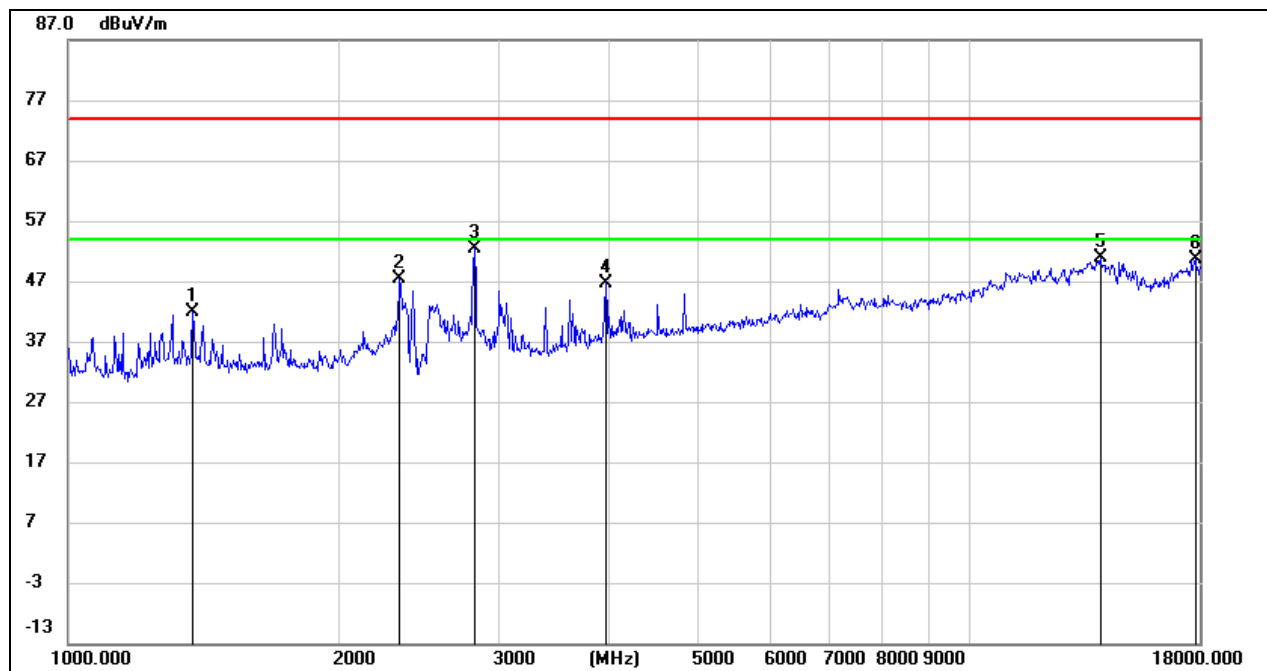
|            |                 |                |          |
|------------|-----------------|----------------|----------|
| EUT:       | IP Camera       | Polarization : | Vertical |
| Test Mode: | 11b High Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1196.264        | 53.03            | -13.61       | 39.42           | 74.00          | -34.58      | peak   |
| 2   | 2814.411        | 57.92            | -7.52        | 50.40           | 74.00          | -23.60      | peak   |
| 3   | 4930.721        | 52.12            | -0.76        | 51.36           | 74.00          | -22.64      | peak   |
| 4   | 6001.626        | 46.83            | 2.10         | 48.93           | 74.00          | -25.07      | peak   |
| 5   | 13365.322       | 32.68            | 18.20        | 50.88           | 74.00          | -23.12      | peak   |
| 6   | 17690.531       | 26.47            | 24.78        | 51.25           | 74.00          | -22.75      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

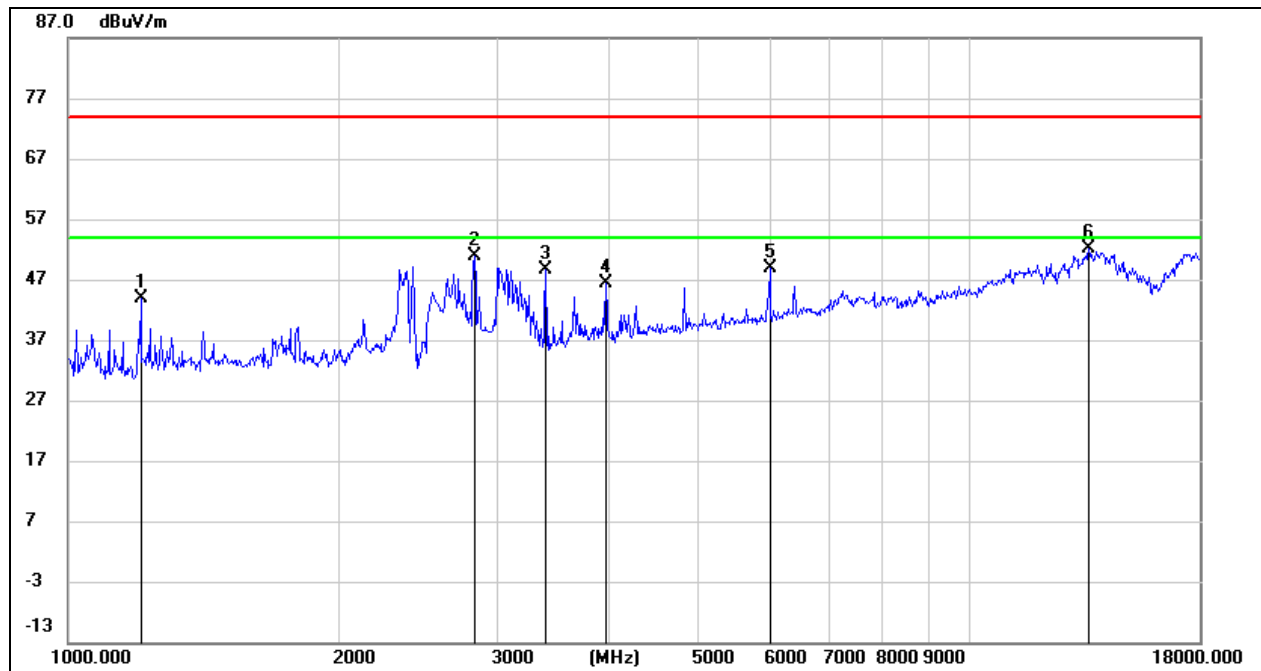
|            |                 |                |            |
|------------|-----------------|----------------|------------|
| EUT:       | IP Camera       | Polarization : | Horizontal |
| Test Mode: | 11g Low Channel |                |            |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1374.295           | 54.53               | -12.69          | 41.84              | 74.00             | -32.16         | peak   |
| 2   | 2332.356           | 55.88               | -8.54           | 47.34              | 74.00             | -26.66         | peak   |
| 3   | 2822.558           | 59.95               | -7.49           | 52.46              | 74.00             | -21.54         | peak   |
| 4   | 3946.885           | 51.18               | -4.43           | 46.75              | 74.00             | -27.25         | peak   |
| 5   | 13957.529          | 31.82               | 18.95           | 50.77              | 74.00             | -23.23         | peak   |
| 6   | 17844.595          | 24.58               | 25.96           | 50.54              | 74.00             | -23.46         | 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 transmit duration.

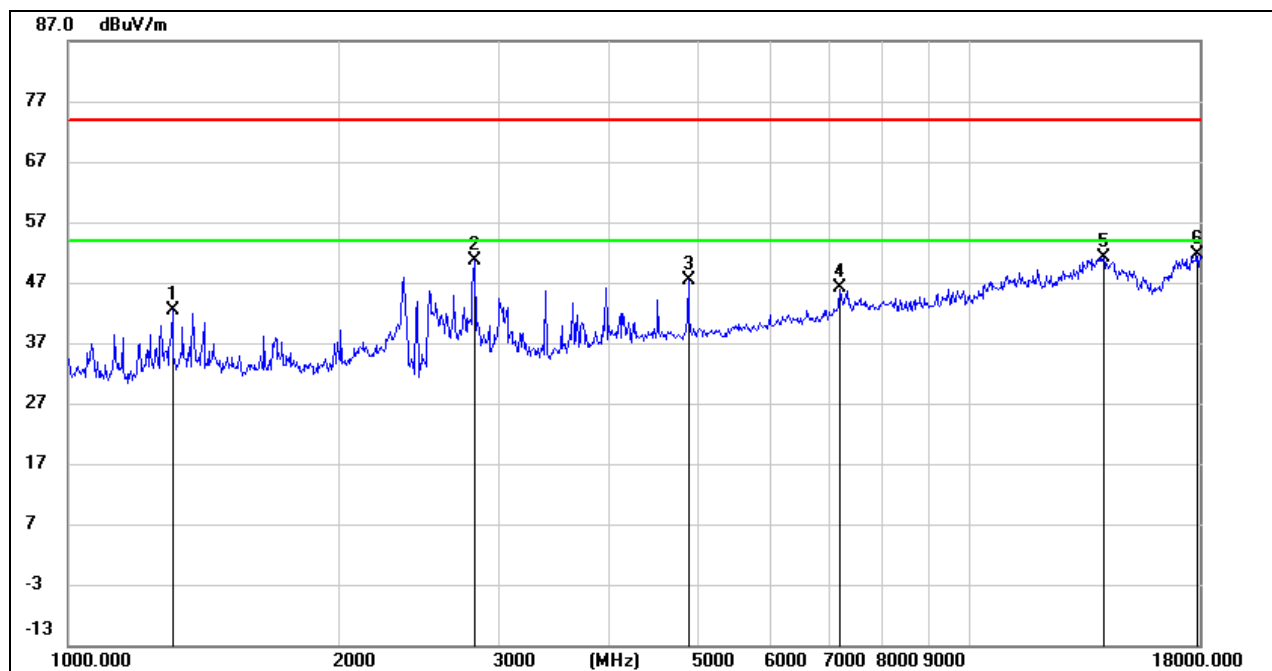
|            |                |                |          |
|------------|----------------|----------------|----------|
| EUT:       | IP Camera      | Polarization : | Vertical |
| Test Mode: | 11g Low Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1203.199        | 57.32            | -13.55         | 43.77           | 74.00          | -30.23      | peak   |
| 2   | 2822.558        | 58.46            | -7.49          | 50.97           | 74.00          | -23.03      | peak   |
| 3   | 3386.297        | 55.14            | -6.48          | 48.66           | 74.00          | -25.34      | peak   |
| 4   | 3946.885        | 50.77            | -4.41          | 46.36           | 74.00          | -27.64      | peak   |
| 5   | 6001.626        | 46.89            | 2.10           | 48.99           | 74.00          | -25.01      | peak   |
| 6   | 13559.879       | 32.79            | 19.29          | 52.08           | 74.00          | -21.92      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

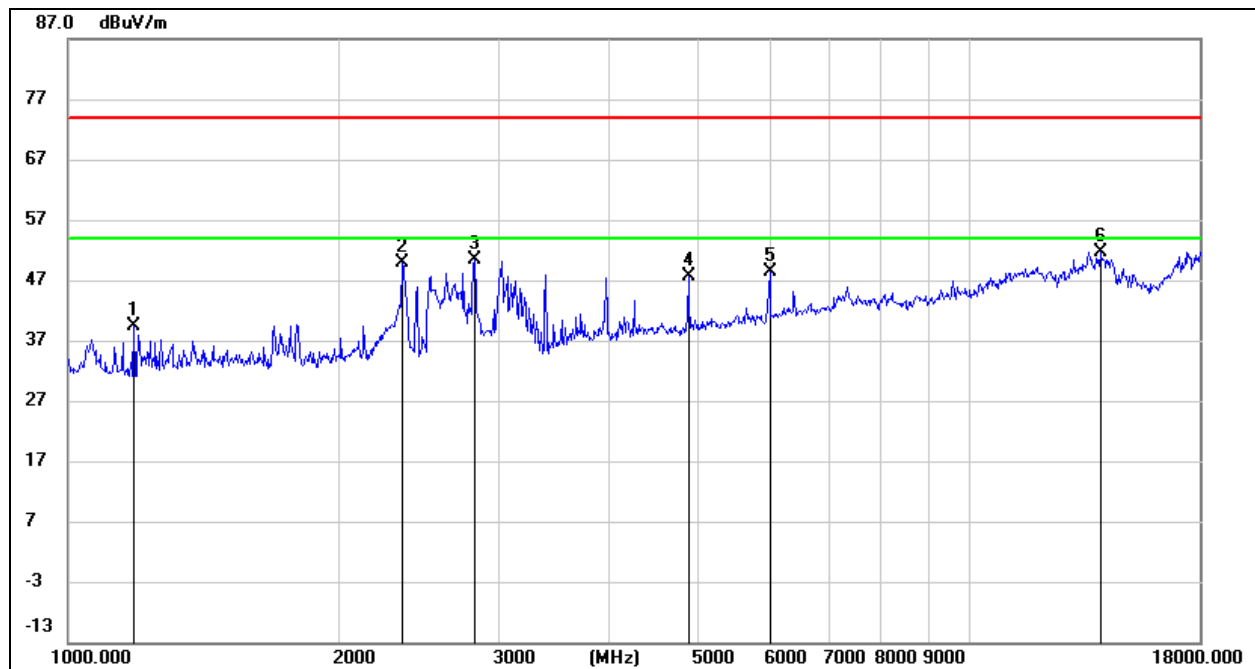
|            |                   |                |            |
|------------|-------------------|----------------|------------|
| EUT:       | IP Camera         | Polarization : | Horizontal |
| Test Mode: | 11g Middle Chanel |                |            |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1304.623           | 55.00               | -12.74          | 42.26              | 74.00             | -31.74         | peak   |
| 2   | 2822.558           | 58.16               | -7.49           | 50.67              | 74.00             | -23.33         | peak   |
| 3   | 4874.043           | 48.22               | -0.95           | 47.27              | 74.00             | -26.73         | peak   |
| 4   | 7200.309           | 40.20               | 5.81            | 46.01              | 74.00             | -27.99         | peak   |
| 5   | 14079.082          | 32.25               | 18.85           | 51.10              | 74.00             | -22.90         | peak   |
| 6   | 17896.247          | 25.94               | 25.75           | 51.69              | 74.00             | -22.31         | 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 transmit duration.

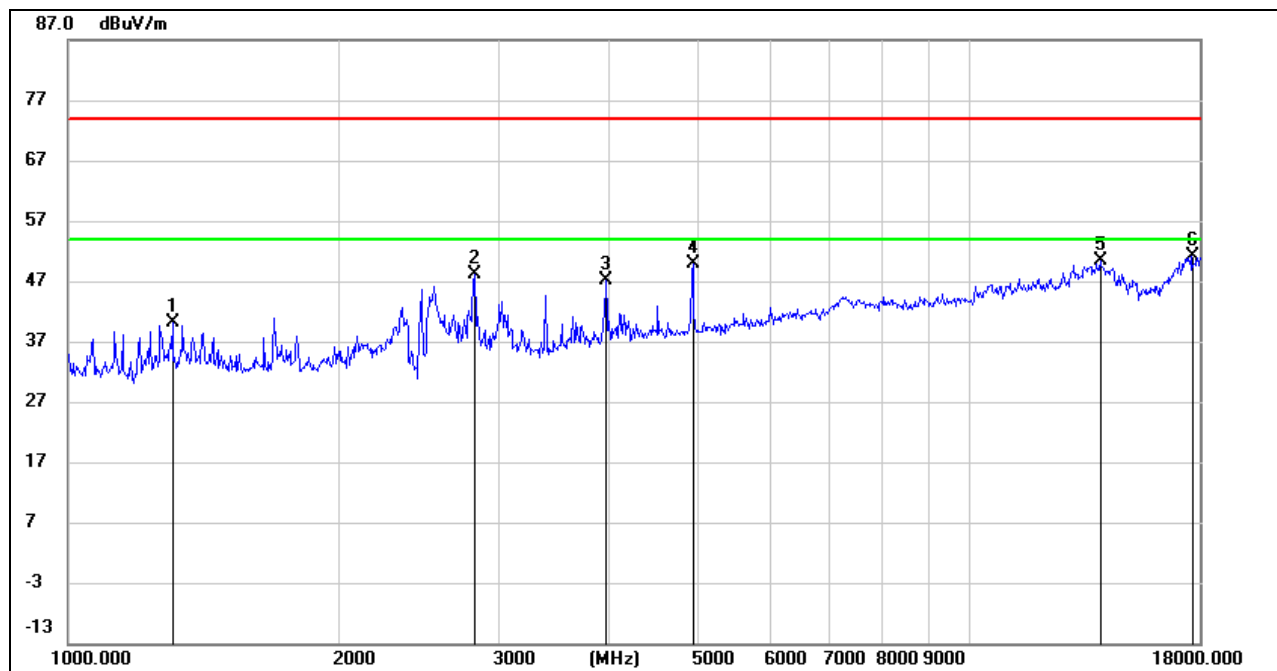
|            |                   |                |          |
|------------|-------------------|----------------|----------|
| EUT:       | IP Camera         | Polarization : | Vertical |
| Test Mode: | 11g Middle Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1182.513        | 52.98            | -13.71       | 39.27           | 74.00          | -34.73      | peak   |
| 2   | 2345.878        | 58.36            | -8.52        | 49.84           | 74.00          | -24.16      | peak   |
| 3   | 2822.558        | 57.96            | -7.49        | 50.47           | 74.00          | -23.53      | peak   |
| 4   | 4874.043        | 48.72            | -1.00        | 47.72           | 74.00          | -26.28      | peak   |
| 5   | 6001.626        | 46.33            | 2.10         | 48.43           | 74.00          | -25.57      | peak   |
| 6   | 13957.529       | 32.61            | 19.05        | 51.66           | 74.00          | -22.34      | 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 transmit duration.

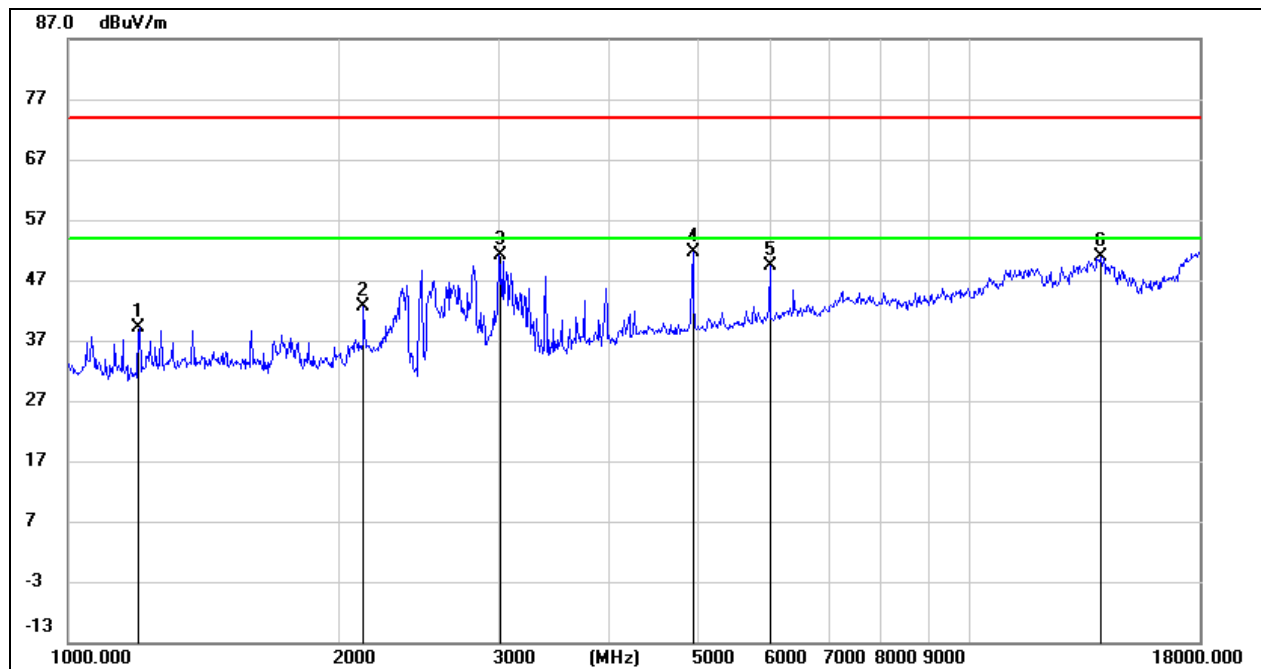
|            |                 |                |            |
|------------|-----------------|----------------|------------|
| EUT:       | IP Camera       | Polarization : | Horizontal |
| Test Mode: | 11g High Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1304.623        | 52.85            | -12.74       | 40.11           | 74.00          | -33.89      | peak   |
| 2   | 2822.558        | 55.58            | -7.49        | 48.09           | 74.00          | -25.91      | peak   |
| 3   | 3946.885        | 51.58            | -4.43        | 47.15           | 74.00          | -26.85      | peak   |
| 4   | 4930.721        | 50.61            | -0.72        | 49.89           | 74.00          | -24.11      | peak   |
| 5   | 13957.529       | 31.49            | 18.95        | 50.44           | 74.00          | -23.56      | peak   |
| 6   | 17639.473       | 27.45            | 23.73        | 51.18           | 74.00          | -22.82      | 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 transmit duration.

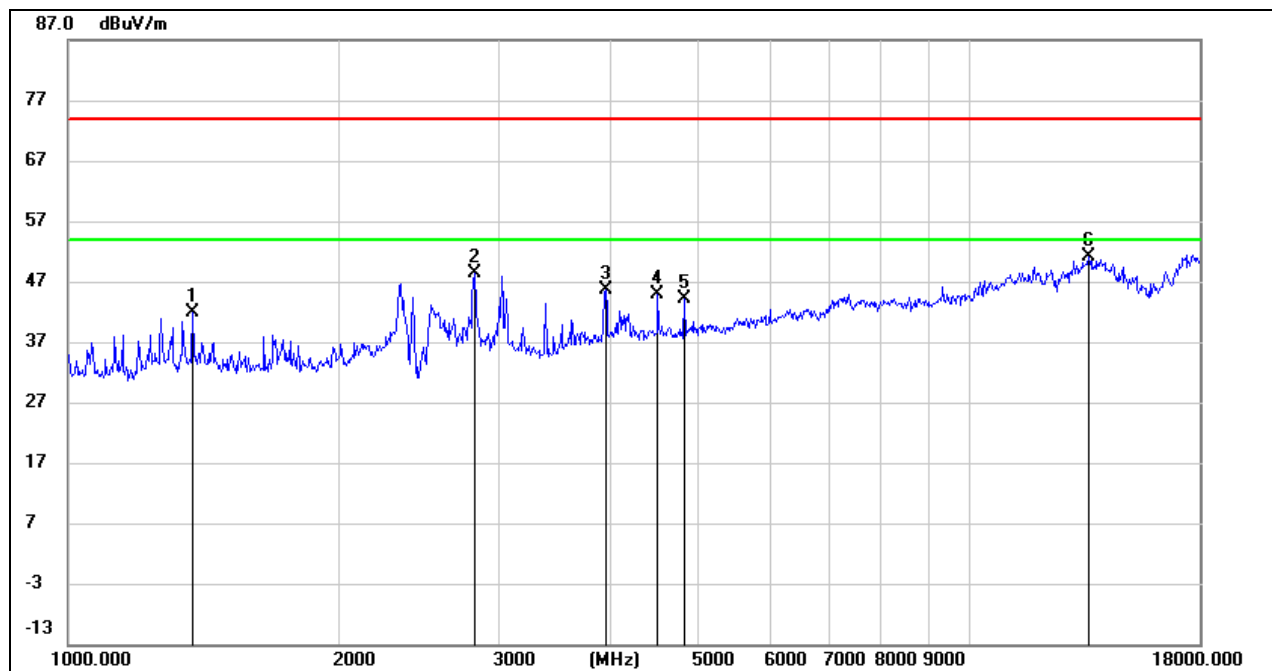
|            |                 |                |          |
|------------|-----------------|----------------|----------|
| EUT:       | IP Camera       | Polarization : | Vertical |
| Test Mode: | 11g High Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1199.726        | 52.69            | -13.58       | 39.11           | 74.00          | -34.89      | peak   |
| 2   | 2132.462        | 52.45            | -9.88        | 42.57           | 74.00          | -31.43      | peak   |
| 3   | 3016.575        | 58.15            | -7.10        | 51.05           | 74.00          | -22.95      | peak   |
| 4   | 4930.721        | 52.28            | -0.76        | 51.52           | 74.00          | -22.48      | peak   |
| 5   | 6001.626        | 47.40            | 2.10         | 49.50           | 74.00          | -24.50      | peak   |
| 6   | 13997.929       | 32.02            | 18.97        | 50.99           | 74.00          | -23.01      | 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. AVG:  $VBW=1/Ton$  where: ton is transmit duration.

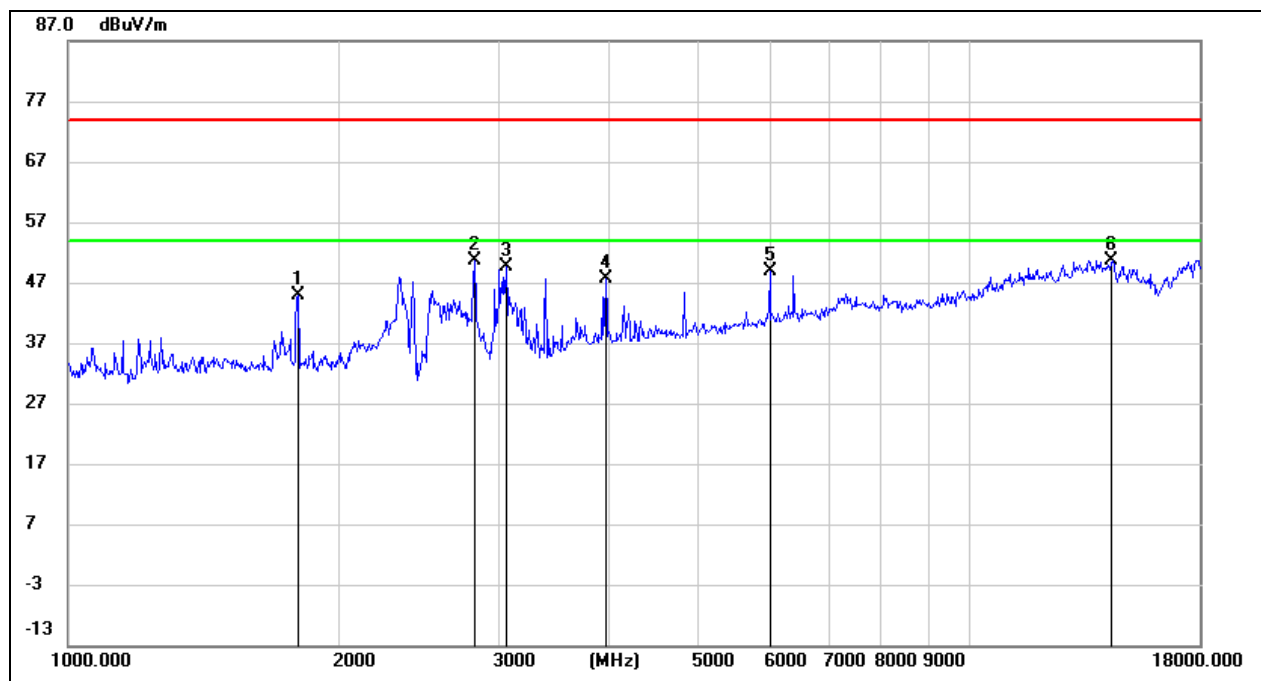
|            |                   |                |            |
|------------|-------------------|----------------|------------|
| EUT:       | IP Camera         | Polarization : | Horizontal |
| Test Mode: | 11n/20 Low Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1374.295        | 54.66            | -12.69       | 41.97           | 74.00          | -32.03      | peak   |
| 2   | 2822.558        | 55.90            | -7.49        | 48.41           | 74.00          | -25.59      | peak   |
| 3   | 3946.885        | 50.05            | -4.43        | 45.62           | 74.00          | -28.38      | peak   |
| 4   | 4508.136        | 46.95            | -2.18        | 44.77           | 74.00          | -29.23      | peak   |
| 5   | 4831.962        | 45.62            | -1.44        | 44.18           | 74.00          | -29.82      | peak   |
| 6   | 13559.879       | 32.22            | 18.85        | 51.07           | 74.00          | -22.93      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

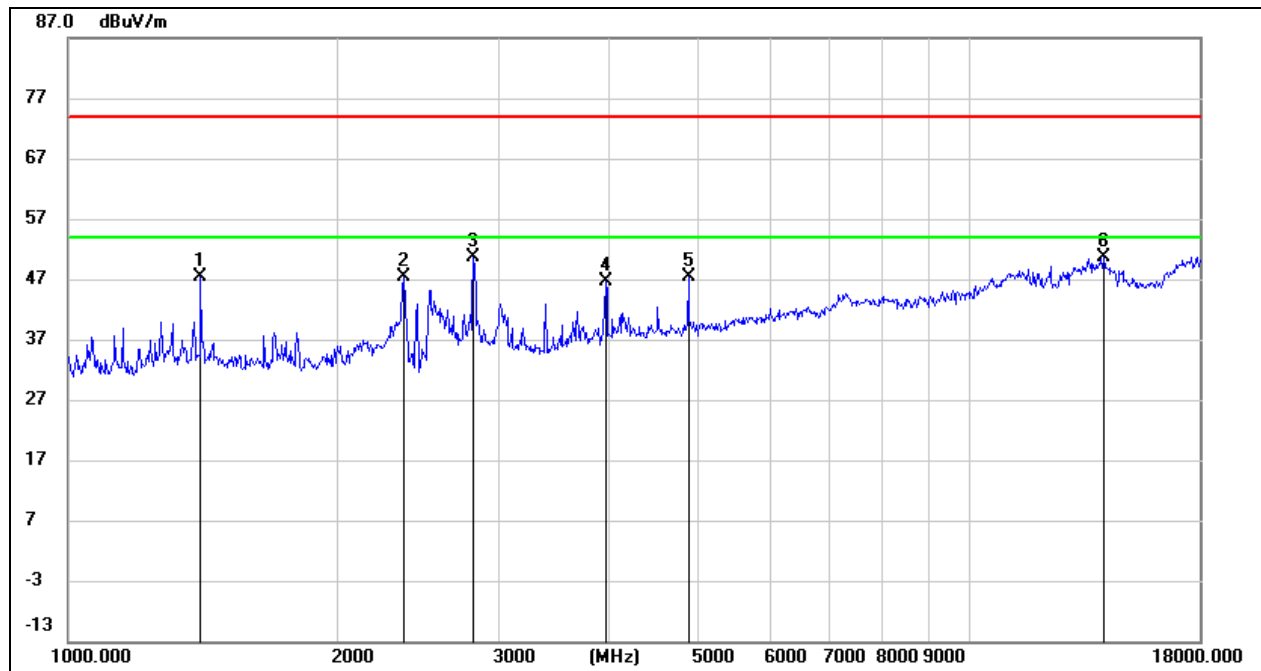
|            |                   |                |          |
|------------|-------------------|----------------|----------|
| EUT:       | IP Camera         | Polarization : | Vertical |
| Test Mode: | 11n/20 Low Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1798.127        | 56.68            | -11.77       | 44.91           | 74.00          | -29.09      | peak   |
| 2   | 2822.558        | 58.13            | -7.48        | 50.65           | 74.00          | -23.35      | peak   |
| 3   | 3060.486        | 56.67            | -6.94        | 49.73           | 74.00          | -24.27      | peak   |
| 4   | 3946.885        | 51.95            | -4.41        | 47.54           | 74.00          | -26.46      | peak   |
| 5   | 6001.626        | 46.70            | 2.10         | 48.80           | 74.00          | -25.20      | peak   |
| 6   | 14408.425       | 32.21            | 18.47        | 50.68           | 74.00          | -23.32      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

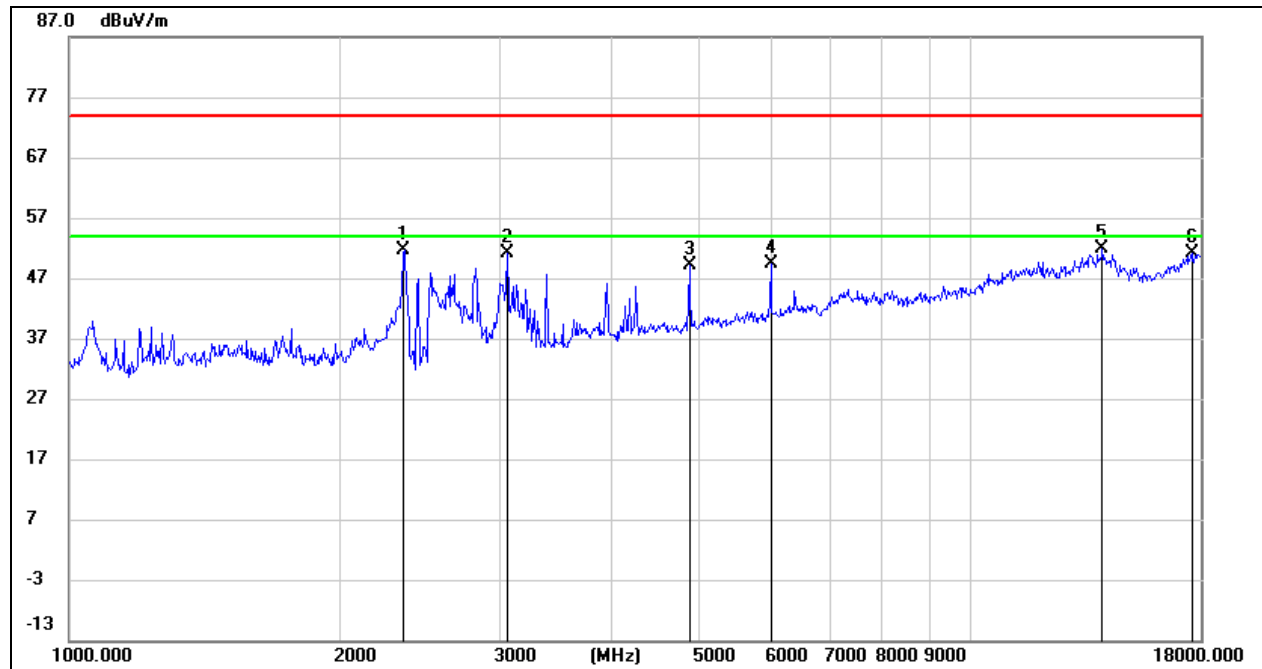
|            |                      |                |            |
|------------|----------------------|----------------|------------|
| EUT:       | IP Camera            | Polarization : | Horizontal |
| Test Mode: | 11n/20 Middle Chanel |                |            |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1406.443           | 59.98               | -12.61          | 47.37              | 74.00             | -26.63         | peak   |
| 2   | 2359.478           | 56.00               | -8.72           | 47.28              | 74.00             | -26.72         | peak   |
| 3   | 2814.411           | 58.22               | -7.52           | 50.70              | 74.00             | -23.30         | peak   |
| 4   | 3946.885           | 51.13               | -4.43           | 46.70              | 74.00             | -27.30         | peak   |
| 5   | 4874.043           | 48.44               | -0.95           | 47.49              | 74.00             | -26.51         | peak   |
| 6   | 14079.082          | 31.89               | 18.85           | 50.74              | 74.00             | -23.26         | 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 transmit duration.

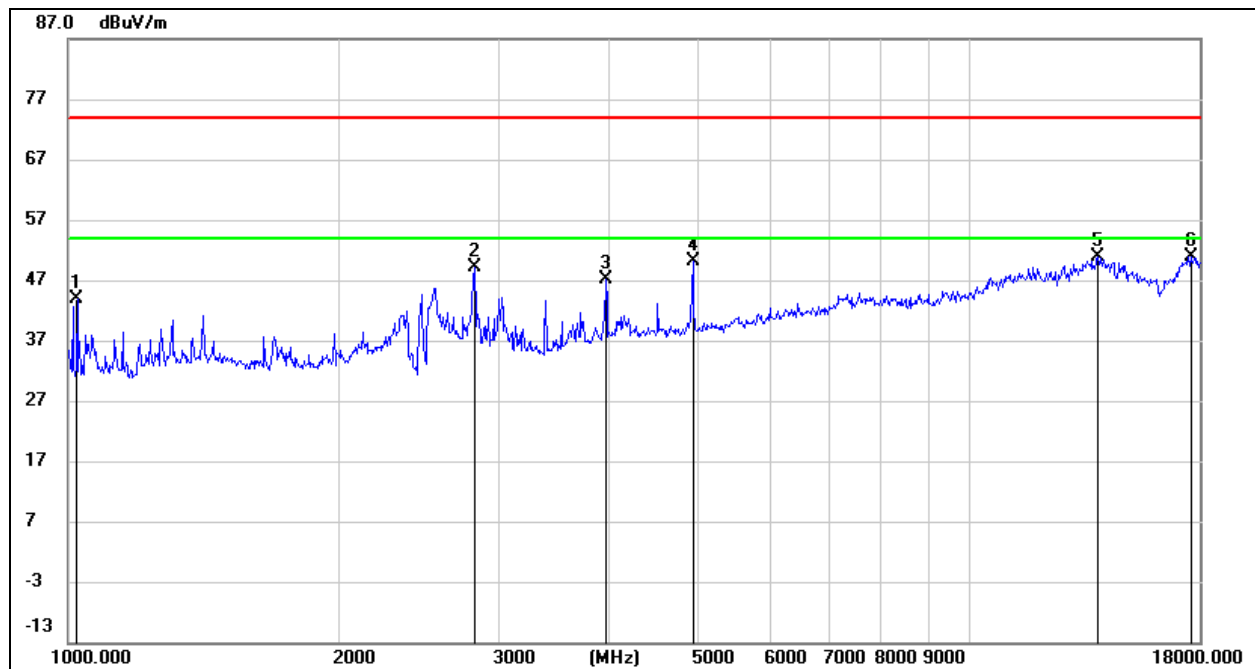
|            |                      |                |          |
|------------|----------------------|----------------|----------|
| EUT:       | IP Camera            | Polarization : | Vertical |
| Test Mode: | 11n/20 Middle Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 2352.668        | 60.22            | -8.58        | 51.64           | 74.00          | -22.36      | peak   |
| 2   | 3060.486        | 58.02            | -6.94        | 51.08           | 74.00          | -22.92      | peak   |
| 3   | 4874.043        | 50.22            | -1.00        | 49.22           | 74.00          | -24.78      | peak   |
| 4   | 6001.626        | 47.18            | 2.10         | 49.28           | 74.00          | -24.72      | peak   |
| 5   | 13997.929       | 32.81            | 18.97        | 51.78           | 74.00          | -22.22      | peak   |
| 6   | 17639.473       | 26.92            | 24.24        | 51.16           | 74.00          | -22.84      | 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 transmit duration.

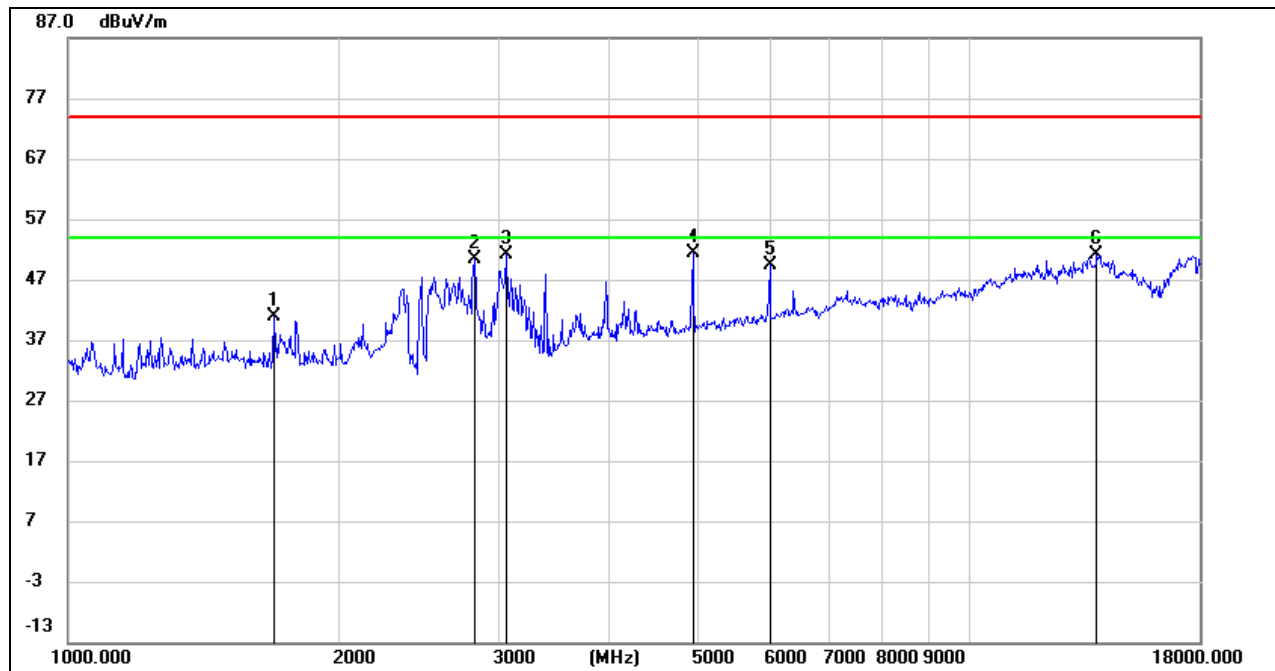
|            |                    |                |            |
|------------|--------------------|----------------|------------|
| EUT:       | IP Camera          | Polarization : | Horizontal |
| Test Mode: | 11n/20 High Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1023.392        | 58.36            | -14.46       | 43.90           | 74.00          | -30.10      | peak   |
| 2   | 2822.558        | 56.65            | -7.49        | 49.16           | 74.00          | -24.84      | peak   |
| 3   | 3946.885        | 51.60            | -4.43        | 47.17           | 74.00          | -26.83      | peak   |
| 4   | 4930.721        | 50.76            | -0.72        | 50.04           | 74.00          | -23.96      | peak   |
| 5   | 13877.076       | 31.81            | 18.99        | 50.80           | 74.00          | -23.20      | peak   |
| 6   | 17639.473       | 27.17            | 23.73        | 50.90           | 74.00          | -23.10      | 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 transmit duration.

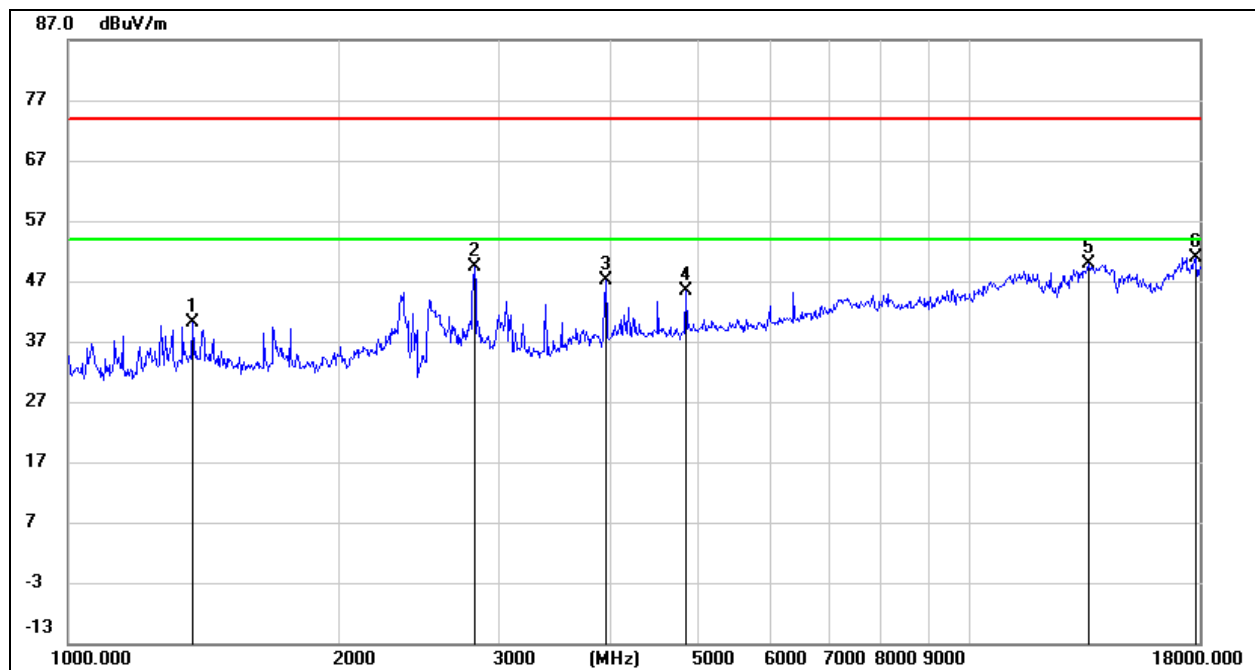
|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11n/20 High Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1692.231        | 53.01            | -12.22       | 40.79           | 74.00          | -33.21      | peak   |
| 2   | 2822.558        | 57.95            | -7.49        | 50.46           | 74.00          | -23.54      | peak   |
| 3   | 3060.486        | 58.08            | -6.94        | 51.14           | 74.00          | -22.86      | peak   |
| 4   | 4930.721        | 52.10            | -0.76        | 51.34           | 74.00          | -22.66      | peak   |
| 5   | 6001.626        | 47.30            | 2.10         | 49.40           | 74.00          | -24.60      | peak   |
| 6   | 13837.024       | 31.82            | 19.29        | 51.11           | 74.00          | -22.89      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

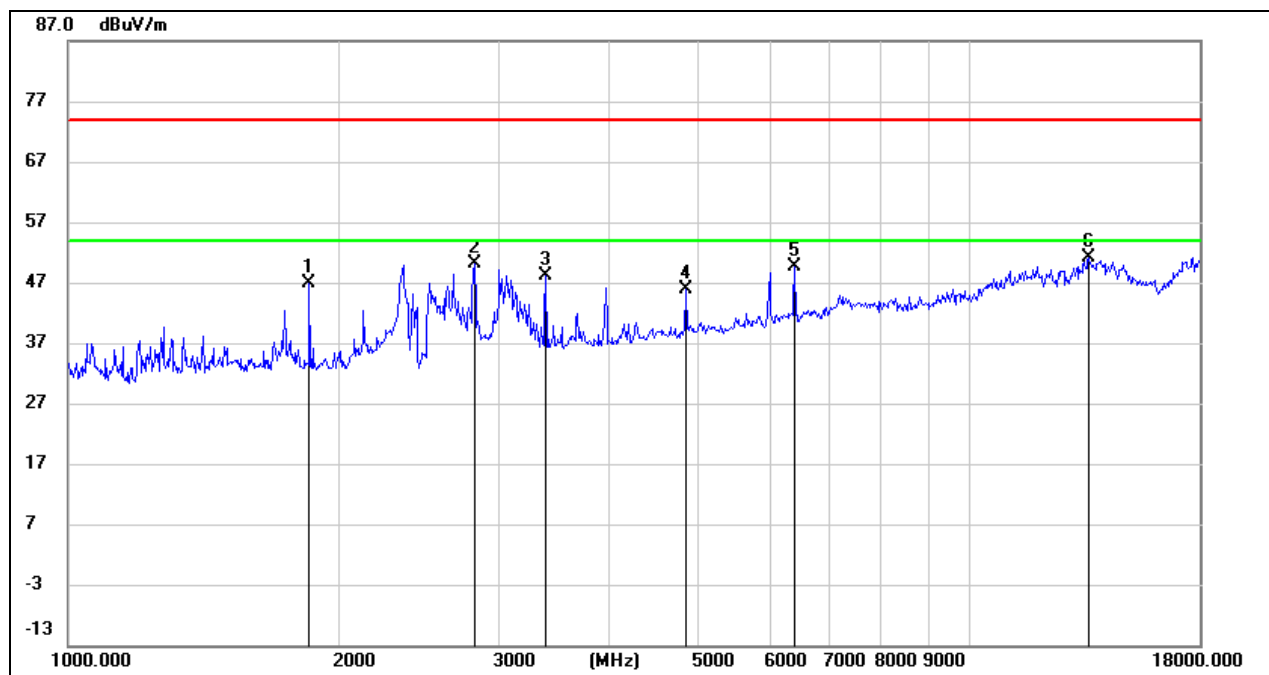
|            |                   |                |            |
|------------|-------------------|----------------|------------|
| EUT:       | IP Camera         | Polarization : | Horizontal |
| Test Mode: | 11n/40 Low Chanel |                |            |



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 1374.295           | 52.86               | -12.69          | 40.17              | 74.00             | -33.83         | peak   |
| 2   | 2822.558           | 56.82               | -7.49           | 49.33              | 74.00             | -24.67         | peak   |
| 3   | 3946.885           | 51.65               | -4.43           | 47.22              | 74.00             | -26.78         | peak   |
| 4   | 4845.948           | 46.63               | -1.29           | 45.34              | 74.00             | -28.66         | peak   |
| 5   | 13559.879          | 30.94               | 18.85           | 49.79              | 74.00             | -24.21         | peak   |
| 6   | 17844.595          | 24.84               | 25.96           | 50.80              | 74.00             | -23.20         | 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 transmit duration.

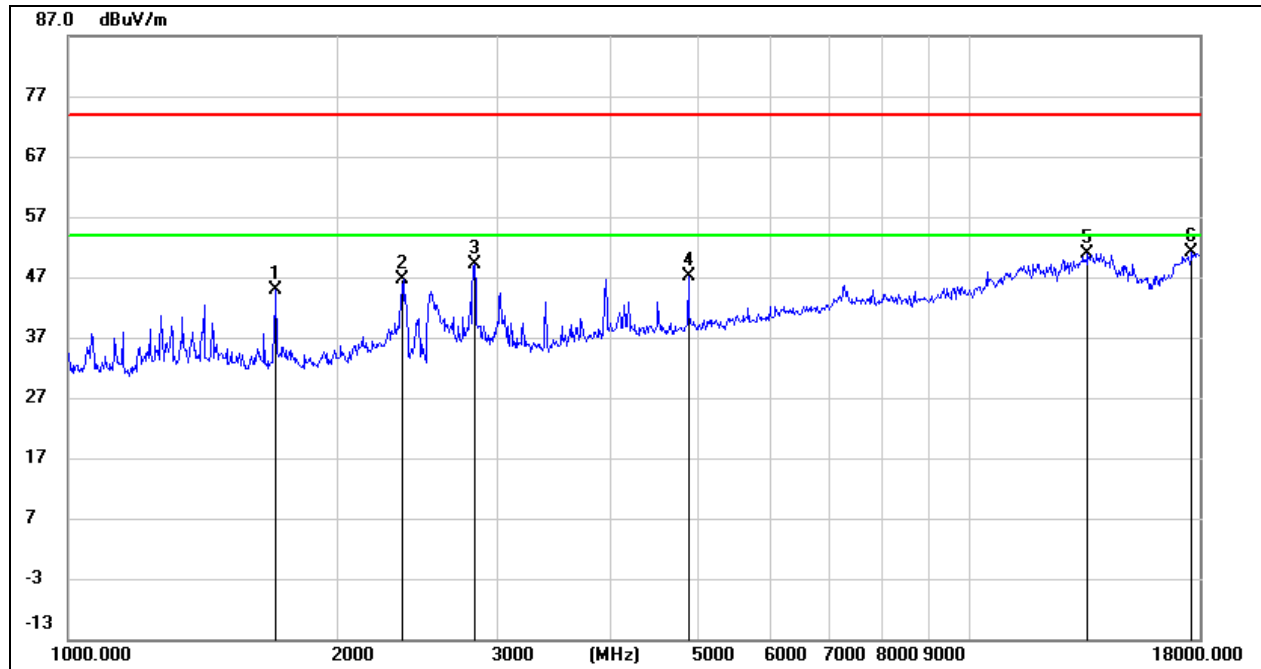
|            |                   |                |          |
|------------|-------------------|----------------|----------|
| EUT:       | IP Camera         | Polarization : | Vertical |
| Test Mode: | 11n/40 Low Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1856.215        | 58.49            | -11.57       | 46.92           | 74.00          | -27.08      | peak   |
| 2   | 2822.558        | 57.70            | -7.49        | 50.21           | 74.00          | -23.79      | peak   |
| 3   | 3386.297        | 54.62            | -6.48        | 48.14           | 74.00          | -25.86      | peak   |
| 4   | 4845.948        | 47.05            | -1.28        | 45.77           | 74.00          | -28.23      | peak   |
| 5   | 6395.654        | 46.52            | 3.11         | 49.63           | 74.00          | -24.37      | peak   |
| 6   | 13559.879       | 31.78            | 19.29        | 51.07           | 74.00          | -22.93      | 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. AVG: VBW=1/Ton where: ton is transmit duration.

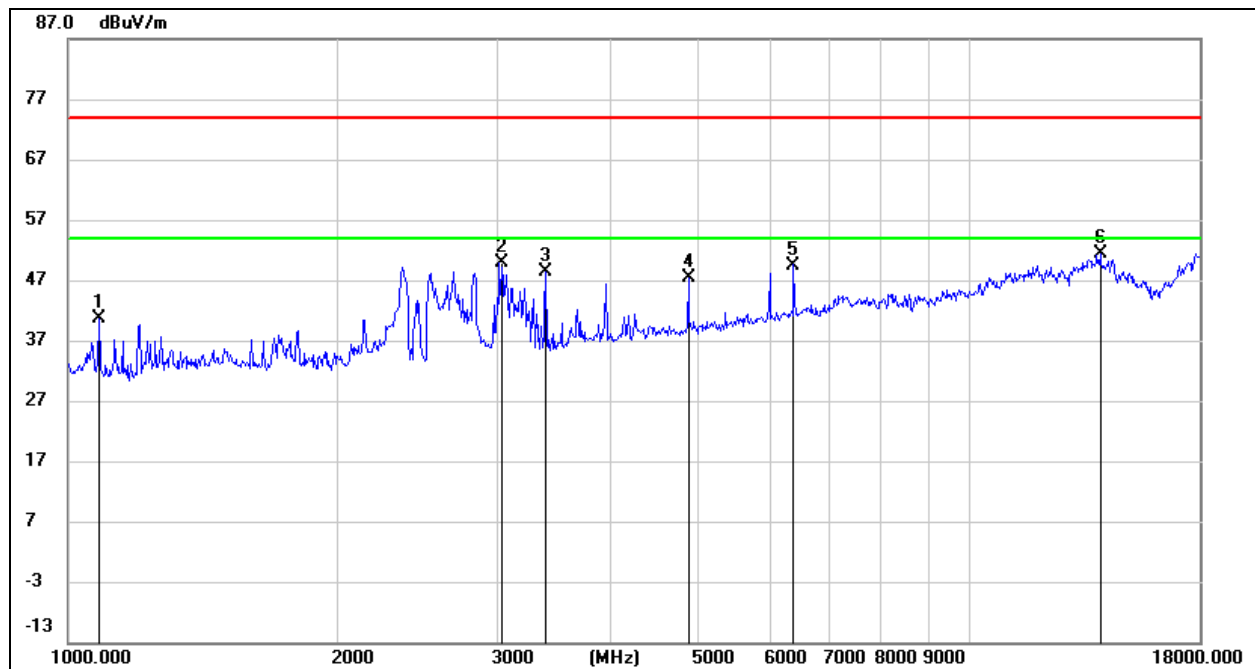
|            |                      |                |            |
|------------|----------------------|----------------|------------|
| EUT:       | IP Camera            | Polarization : | Horizontal |
| Test Mode: | 11n/40 Middle Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 1702.041        | 56.98            | -12.17         | 44.81           | 74.00          | -29.19      | peak   |
| 2   | 2352.668        | 55.40            | -8.68          | 46.72           | 74.00          | -27.28      | peak   |
| 3   | 2822.558        | 56.64            | -7.49          | 49.15           | 74.00          | -24.85      | peak   |
| 4   | 4874.043        | 48.03            | -0.95          | 47.08           | 74.00          | -26.92      | peak   |
| 5   | 13520.742       | 32.28            | 18.67          | 50.95           | 74.00          | -23.05      | peak   |
| 6   | 17639.473       | 27.46            | 23.73          | 51.19           | 74.00          | -22.81      | 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 transmit duration.

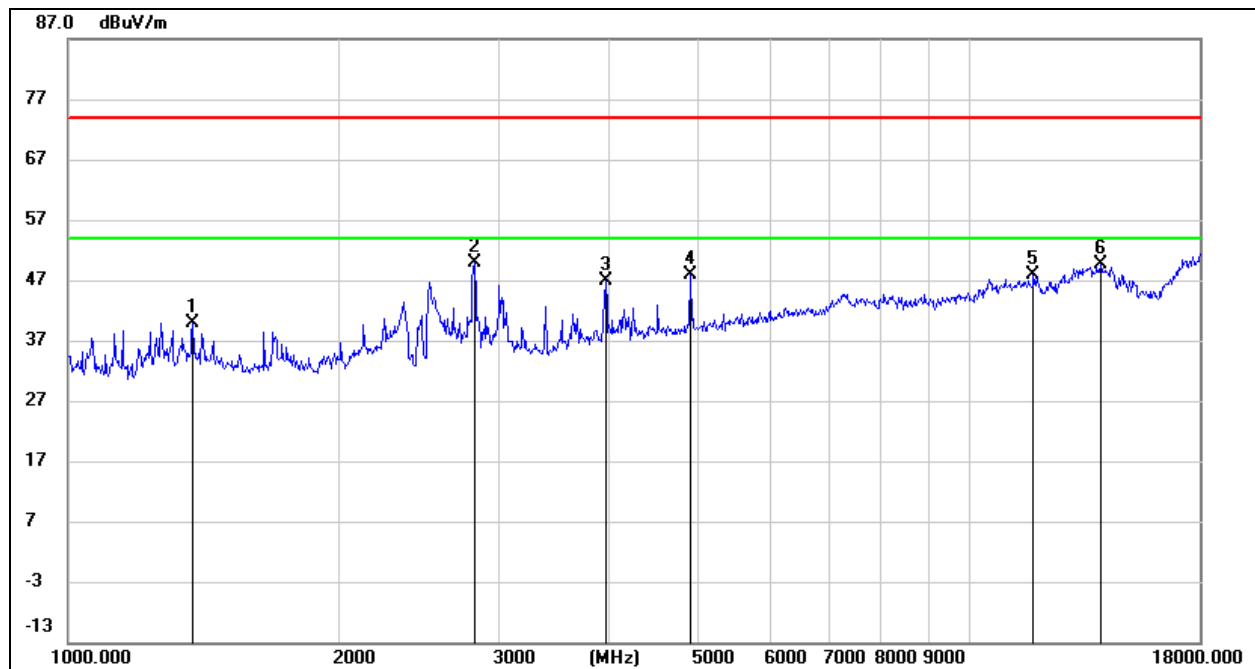
|            |                      |                |          |
|------------|----------------------|----------------|----------|
| EUT:       | IP Camera            | Polarization : | Vertical |
| Test Mode: | 11n/40 Middle Chanel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1081.166        | 54.87            | -14.32       | 40.55           | 74.00          | -33.45      | peak   |
| 2   | 3016.575        | 57.07            | -7.10        | 49.97           | 74.00          | -24.03      | peak   |
| 3   | 3386.297        | 54.94            | -6.48        | 48.46           | 74.00          | -25.54      | peak   |
| 4   | 4874.043        | 48.46            | -1.00        | 47.46           | 74.00          | -26.54      | peak   |
| 5   | 6377.195        | 46.42            | 3.08         | 49.50           | 74.00          | -24.50      | peak   |
| 6   | 13957.529       | 32.40            | 19.05        | 51.45           | 74.00          | -22.55      | 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 transmit duration.

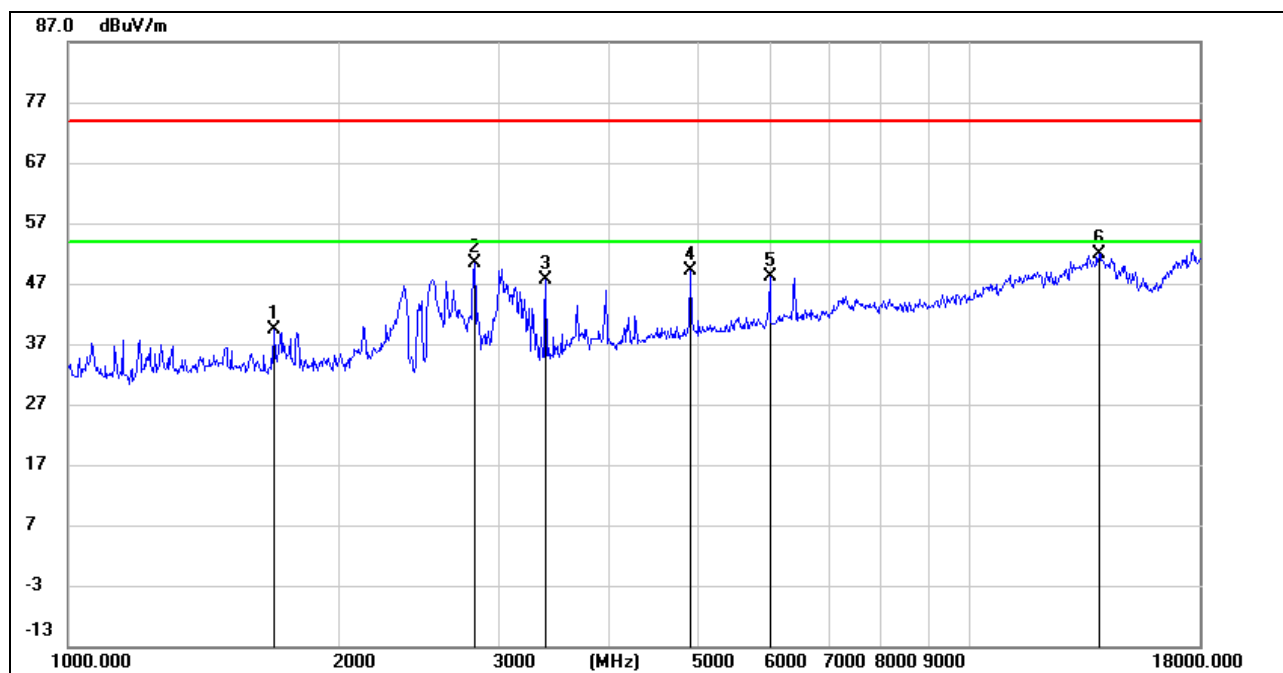
|            |                    |                |            |
|------------|--------------------|----------------|------------|
| EUT:       | IP Camera          | Polarization : | Horizontal |
| Test Mode: | 11n/40 High Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1374.295        | 52.59            | -12.69       | 39.90           | 74.00          | -34.10      | peak   |
| 2   | 2822.558        | 57.43            | -7.49        | 49.94           | 74.00          | -24.06      | peak   |
| 3   | 3946.885        | 51.36            | -4.43        | 46.93           | 74.00          | -27.07      | peak   |
| 4   | 4902.300        | 48.42            | -0.66        | 47.76           | 74.00          | -26.24      | peak   |
| 5   | 11803.280       | 33.89            | 13.97        | 47.86           | 74.00          | -26.14      | peak   |
| 6   | 13997.929       | 30.82            | 18.87        | 49.69           | 74.00          | -24.31      | 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 transmit duration.

|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11n/40 High Chanel |                |          |



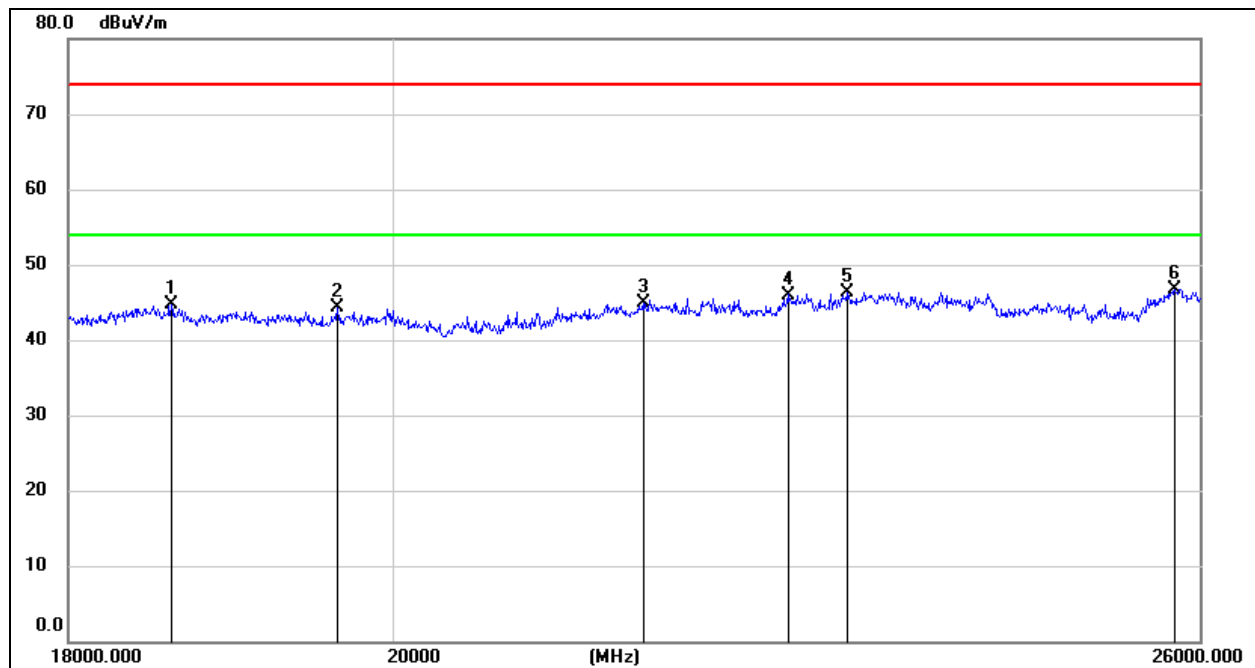
| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 1692.231        | 51.54            | -12.22       | 39.32           | 74.00          | -34.68      | peak   |
| 2   | 2822.558        | 57.83            | -7.48        | 50.35           | 74.00          | -23.65      | peak   |
| 3   | 3386.297        | 54.23            | -6.48        | 47.75           | 74.00          | -26.25      | peak   |
| 4   | 4902.300        | 49.80            | -0.76        | 49.04           | 74.00          | -24.96      | peak   |
| 5   | 6001.626        | 46.13            | 2.10         | 48.23           | 74.00          | -25.77      | peak   |
| 6   | 13917.244       | 32.76            | 19.14        | 51.90           | 74.00          | -22.10      | 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 transmit duration.

## 8.4. SPURIOUS EMISSIONS (18~25GHz)

### HARMONICS AND SPURIOUS EMISSIONS

|            |                   |                |            |
|------------|-------------------|----------------|------------|
| EUT:       | IP Camera         | Polarization : | Horizontal |
| Test Mode: | 11b Middle Chanel |                |            |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18612.524       | 49.98            | -5.34          | 44.64           | 74.00          | -29.36      | peak   |
| 2   | 19646.324       | 49.60            | -5.38          | 44.22           | 74.00          | -29.78      | peak   |
| 3   | 21697.042       | 49.33            | -4.40          | 44.93           | 74.00          | -29.07      | peak   |
| 4   | 22742.711       | 49.70            | -3.70          | 46.00           | 74.00          | -28.00      | peak   |
| 5   | 23181.775       | 49.75            | -3.39          | 46.36           | 74.00          | -27.64      | peak   |
| 6   | 25790.510       | 47.45            | -0.68          | 46.77           | 74.00          | -27.23      | peak   |

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

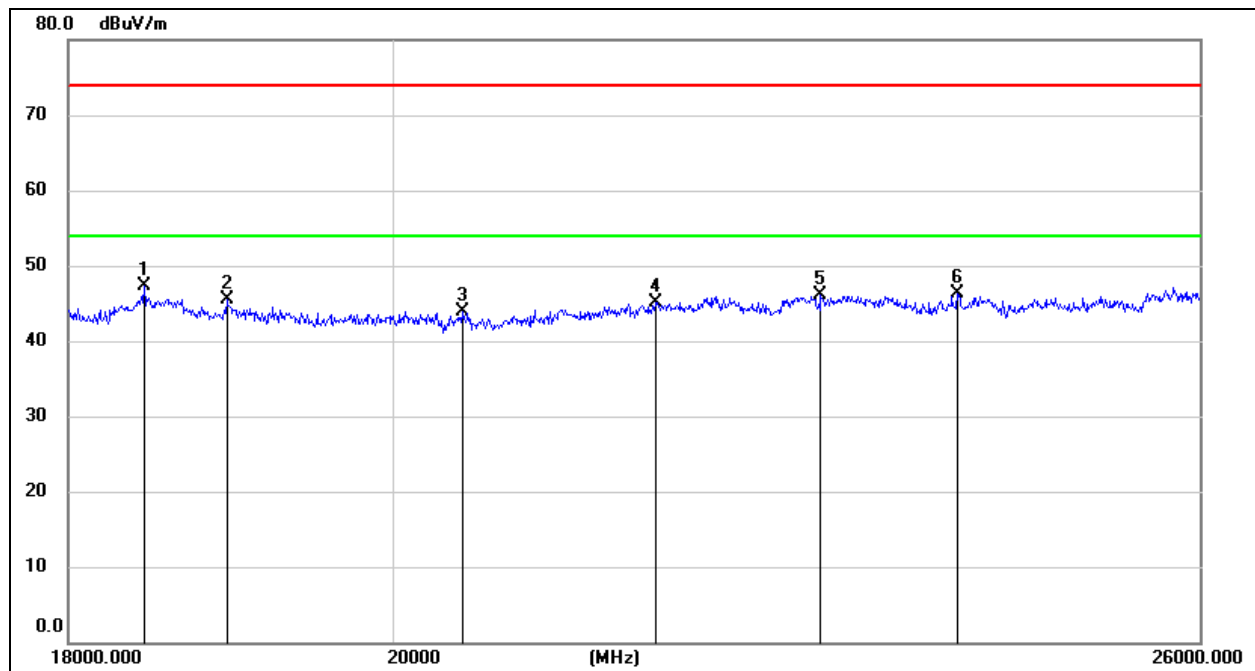
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.

3. Peak: Peak detector.

4. AVG: VBW=1/Ton where: ton is transmit duration.

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11b Middle Channel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|----------------|-----------------|----------------|-------------|--------|
| 1   | 18448.984       | 52.61            | -5.32          | 47.29           | 74.00          | -26.71      | peak   |
| 2   | 18950.934       | 50.83            | -5.26          | 45.57           | 74.00          | -28.43      | peak   |
| 3   | 20457.304       | 49.39            | -5.39          | 44.00           | 74.00          | -30.00      | peak   |
| 4   | 21784.984       | 49.51            | -4.34          | 45.17           | 74.00          | -28.83      | peak   |
| 5   | 22986.538       | 49.46            | -3.45          | 46.01           | 74.00          | -27.99      | peak   |
| 6   | 24032.412       | 48.96            | -2.75          | 46.21           | 74.00          | -27.79      | peak   |

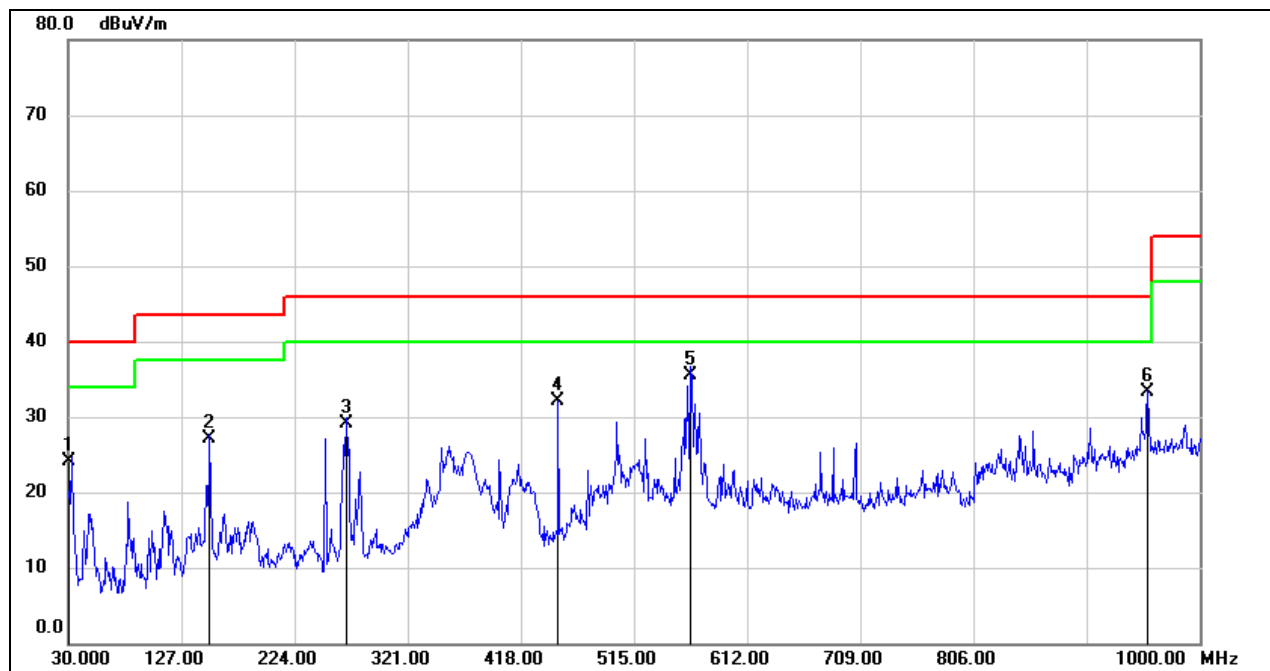
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Peak: Peak detector.  
4. AVG: VBW=1/Ton where: ton is transmit duration.

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

## 8.5. SPURIOUS EMISSIONS 30M ~ 1 GHz

### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION)

|            |                    |                |            |
|------------|--------------------|----------------|------------|
| EUT:       | IP Camera          | Polarization : | Horizontal |
| Test Mode: | 11b Middle Channel |                |            |

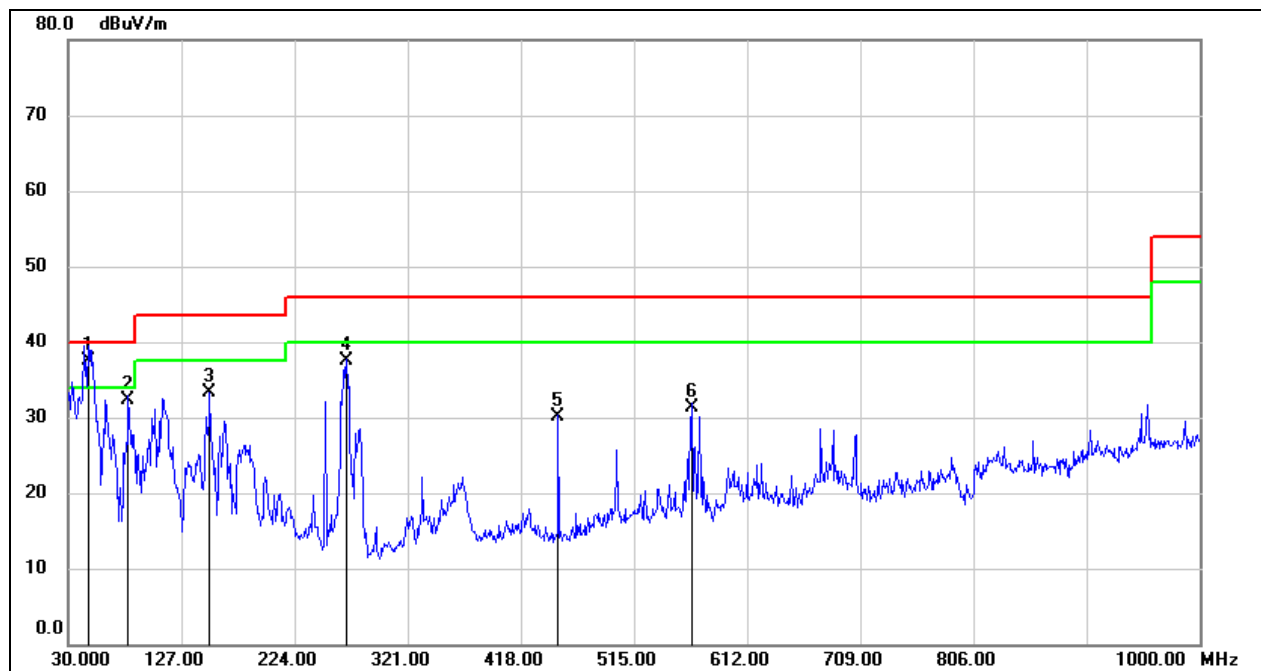


| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 30.0000            | 38.42               | -14.33          | 24.09              | 40.00             | -15.91         | QP     |
| 2   | 151.2500           | 41.39               | -14.25          | 27.14              | 43.50             | -16.36         | QP     |
| 3   | 268.6200           | 41.81               | -12.74          | 29.07              | 46.00             | -16.93         | QP     |
| 4   | 450.0100           | 41.98               | -9.80           | 32.18              | 46.00             | -13.82         | QP     |
| 5   | 563.5000           | 43.03               | -7.43           | 35.60              | 46.00             | -10.40         | QP     |
| 6   | 955.3800           | 7.10                | 26.23           | 33.33              | 46.00             | -12.67         | QP     |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto.

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11b Middle Channel |                |          |



| No. | Frequency (MHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 47.4600         | 53.51            | -16.00       | 37.51           | 40.00          | -2.49       | QP     |
| 2   | 81.4100         | 49.79            | -17.55       | 32.24           | 40.00          | -7.76       | QP     |
| 3   | 151.2500        | 47.55            | -14.25       | 33.30           | 43.50          | -10.20      | QP     |
| 4   | 268.6200        | 50.16            | -12.74       | 37.42           | 46.00          | -8.58       | QP     |
| 5   | 450.0100        | 39.94            | -9.80        | 30.14           | 46.00          | -15.86      | QP     |
| 6   | 564.4699        | 38.77            | -7.41        | 31.36           | 46.00          | -14.64      | QP     |

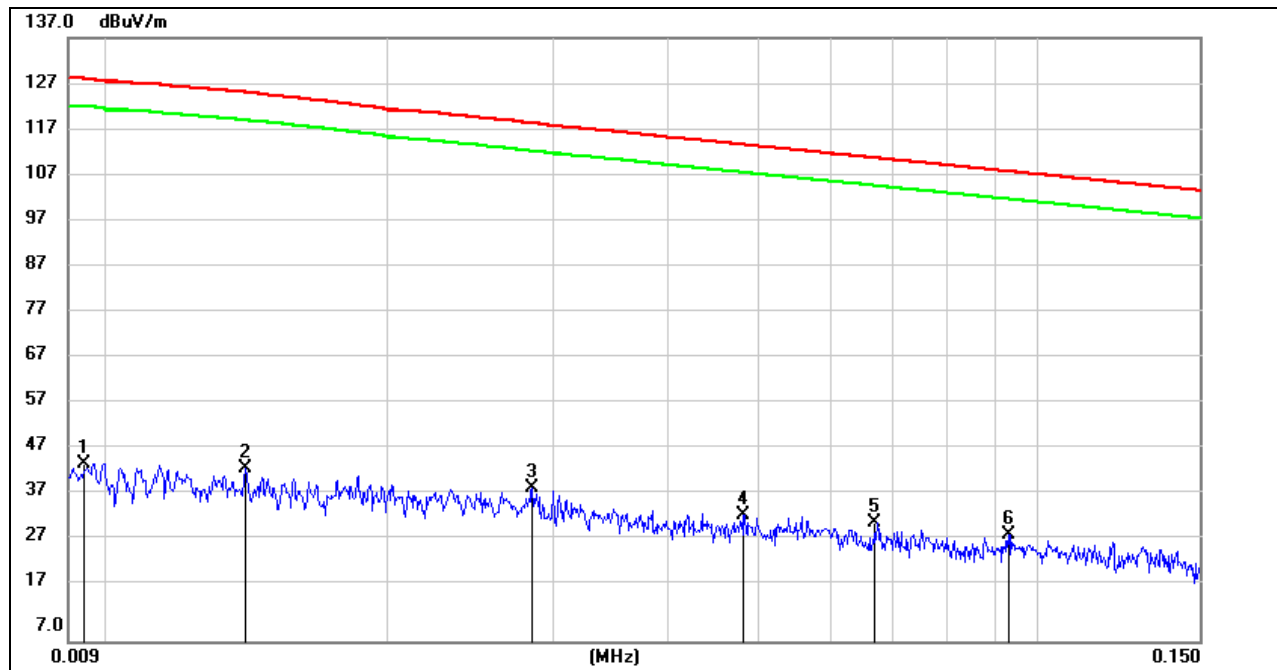
Note: 1. Result Level = Read Level +Correct.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.  
3. Test setup: RBW: 120 kHz, VBW: 300 kHz, Sweep time: auto

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

## 8.6. SPURIOUS EMISSIONS BELOW 30M

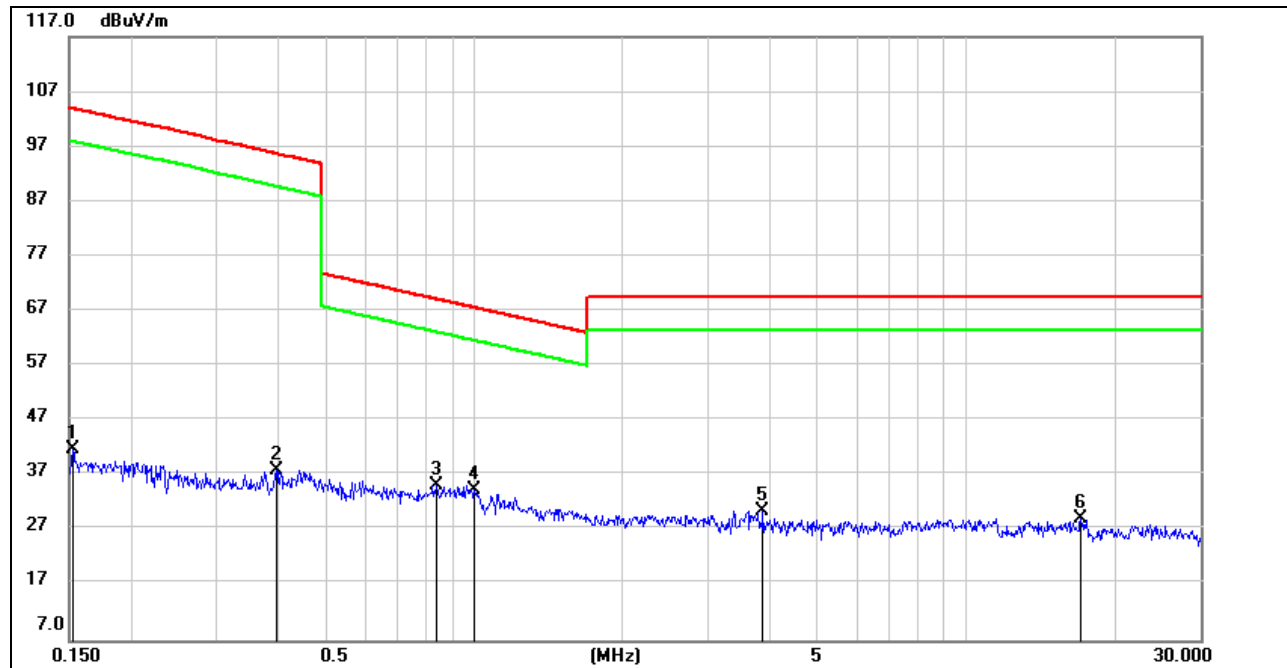
### RIOUS EMISSIONS Below 30MHz (WORST-CASE CONFIGURATION)

|            |                    |                |            |
|------------|--------------------|----------------|------------|
| EUT:       | IP Camera          | Polarization : | Horizontal |
| Test Mode: | 11b Middle Channel |                |            |



| No. | Frequency (KHz) | Reading (dBuV/m) | Correct dB/m | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|-----|-----------------|------------------|--------------|-----------------|----------------|-------------|--------|
| 1   | 0.0094          | 25.04            | 20.26        | 45.30           | 128.06         | -82.76      | QP     |
| 2   | 0.0140          | 24.02            | 20.25        | 44.27           | 125.19         | -80.92      | QP     |
| 3   | 0.0285          | 19.61            | 20.31        | 39.92           | 118.59         | -78.67      | QP     |
| 4   | 0.0483          | 13.95            | 20.31        | 34.26           | 113.95         | -79.69      | QP     |
| 5   | 0.0670          | 12.26            | 20.31        | 32.57           | 111.10         | -78.53      | QP     |
| 6   | 0.0932          | 9.78             | 20.25        | 30.03           | 108.23         | -78.20      | QP     |

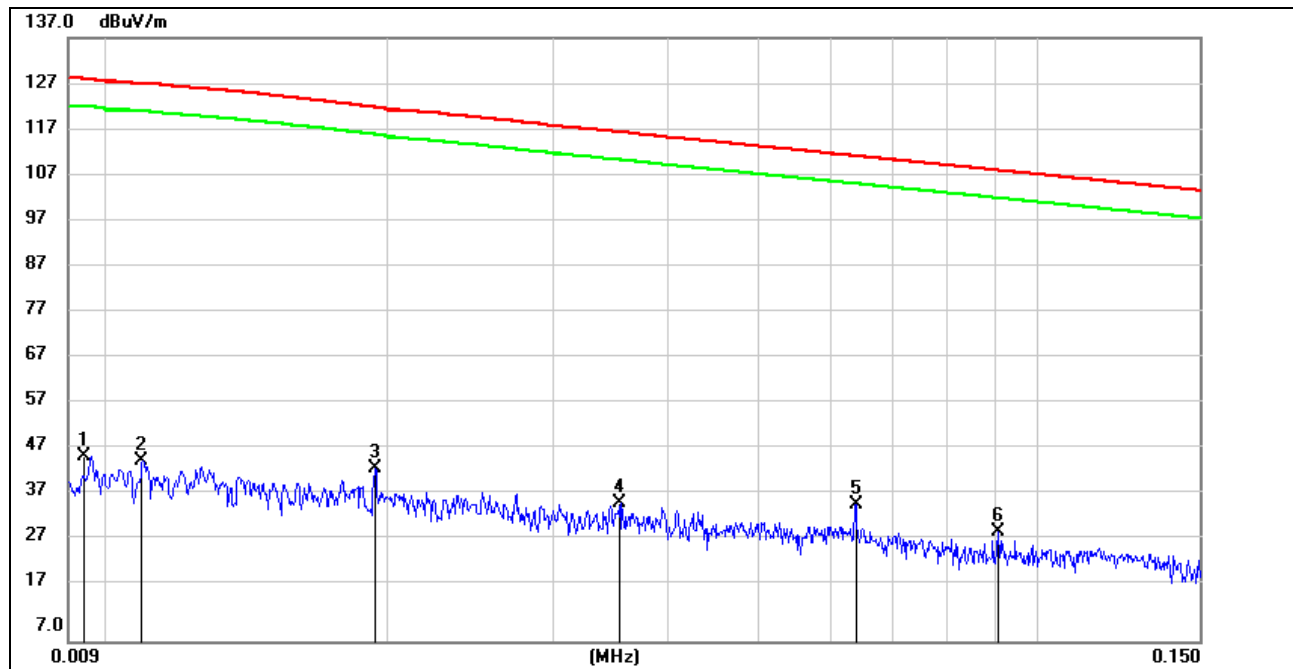
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 0.1524             | 21.41               | 20.42           | 41.83              | 103.95            | -62.12         | QP     |
| 2   | 0.3955             | 17.74               | 20.27           | 38.01              | 95.67             | -57.66         | QP     |
| 3   | 0.8393             | 14.91               | 20.36           | 35.27              | 69.14             | -33.87         | QP     |
| 4   | 0.9997             | 14.00               | 20.37           | 34.37              | 67.60             | -33.23         | QP     |
| 5   | 3.8603             | 9.49                | 21.04           | 30.53              | 69.54             | -39.01         | QP     |
| 6   | 17.1082            | 8.08                | 20.98           | 29.06              | 69.54             | -40.48         | QP     |

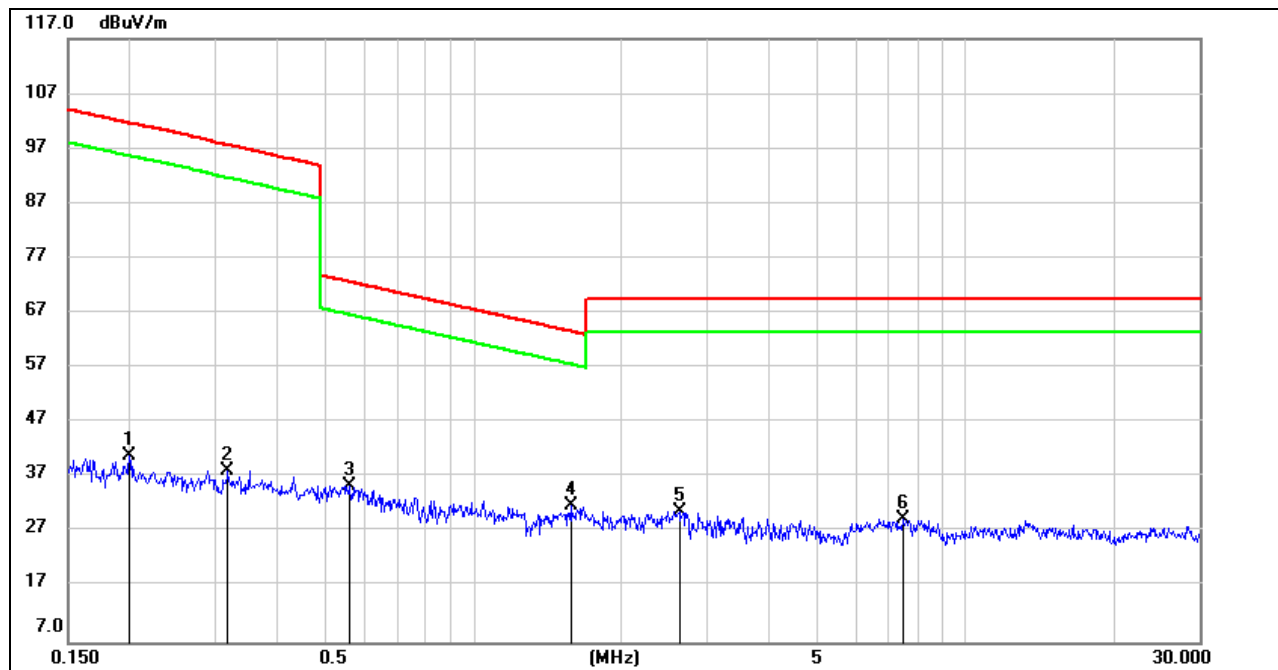
Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

|            |                    |                |          |
|------------|--------------------|----------------|----------|
| EUT:       | IP Camera          | Polarization : | Vertical |
| Test Mode: | 11b Middle Channel |                |          |



| No. | Frequency<br>(KHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 0.0094             | 26.71               | 20.26           | 46.97              | 128.06            | -81.09         | QP     |
| 2   | 0.0108             | 25.55               | 20.22           | 45.77              | 127.12            | -81.35         | QP     |
| 3   | 0.0193             | 23.77               | 20.30           | 44.07              | 122.00            | -77.93         | QP     |
| 4   | 0.0354             | 16.28               | 20.31           | 36.59              | 116.71            | -80.12         | QP     |
| 5   | 0.0637             | 16.19               | 20.31           | 36.50              | 111.54            | -75.04         | QP     |
| 6   | 0.0908             | 10.16               | 20.26           | 30.42              | 108.45            | -78.03         | QP     |

Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.



| No. | Frequency<br>(MHz) | Reading<br>(dBuV/m) | Correct<br>dB/m | Result<br>(dBuV/m) | Limit<br>(dBuV/m) | Margin<br>(dB) | Remark |
|-----|--------------------|---------------------|-----------------|--------------------|-------------------|----------------|--------|
| 1   | 0.1995             | 20.67               | 20.37           | 41.04              | 101.60            | -60.56         | QP     |
| 2   | 0.3165             | 17.89               | 20.30           | 38.19              | 97.65             | -59.46         | QP     |
| 3   | 0.5581             | 15.12               | 20.26           | 35.38              | 72.71             | -37.33         | QP     |
| 4   | 1.5766             | 11.31               | 20.58           | 31.89              | 63.65             | -31.76         | QP     |
| 5   | 2.6221             | 9.95                | 20.83           | 30.78              | 69.54             | -38.76         | QP     |
| 6   | 7.4858             | 8.51                | 20.94           | 29.45              | 69.54             | -40.09         | QP     |

- Note: 1. Measurement = Reading Level + Correct Factor.  
2. If Peak Result complies with QP limit, QP Result is deemed to comply with QP limit.

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

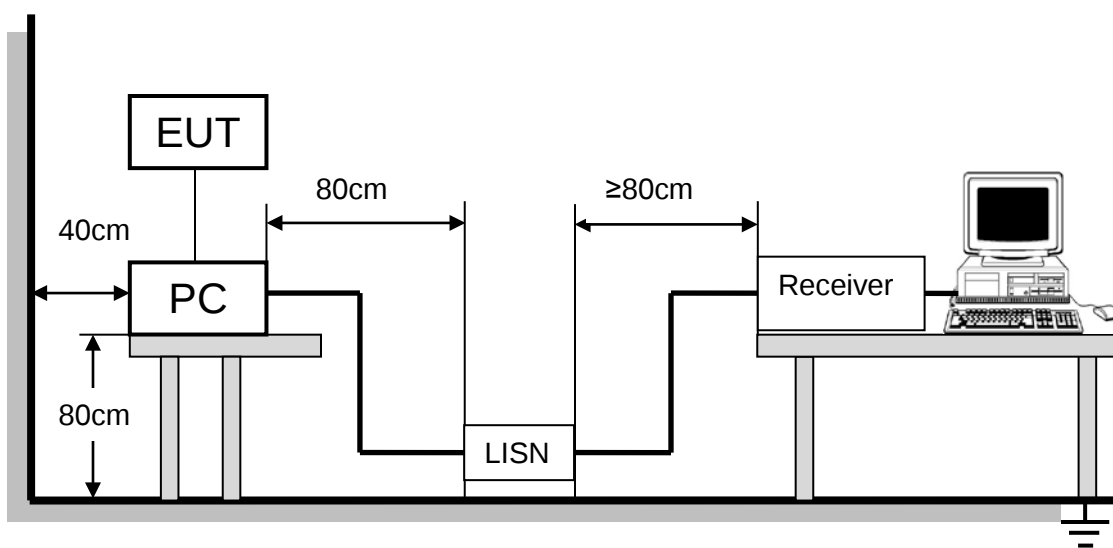
## 9. AC POWER LINE CONDUCTED EMISSIONS

### LIMITS

Please refer to FCC §15.207 (a) and RSS-Gen Clause 8.8

| FREQUENCY (MHz) | Class A (dBuV) |         | Class B (dBuV) |           |
|-----------------|----------------|---------|----------------|-----------|
|                 | Quasi-peak     | Average | Quasi-peak     | Average   |
| 0.15 -0.5       | 79.00          | 66.00   | 66 - 56 *      | 56 - 46 * |
| 0.50 -5.0       | 73.00          | 60.00   | 56.00          | 46.00     |
| 5.0 -30.0       | 73.00          | 60.00   | 60.00          | 50.00     |

### TEST SETUP AND PROCEDURE

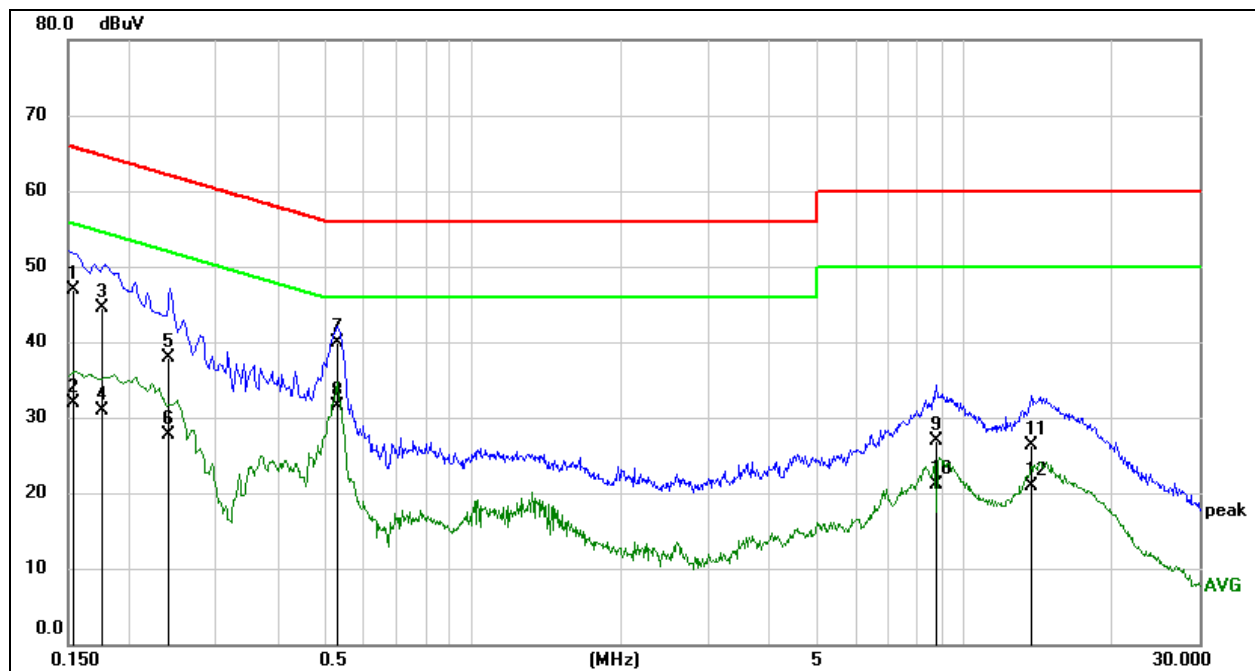


The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI Measurement Receiver (R&S Test Receiver ESR3) is used to test the emissions from both sides of AC line. According to the requirements in Section 6.2 of ANSI C63.10 -2013. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-Peak and average detector mode. The bandwidth of EMI test receiver is set at 9kHz.

The arrangement of the equipment is installed to meet the standards and operating in a manner, which tends to maximize its emission characteristics in a normal application.

### TEST RESULTS

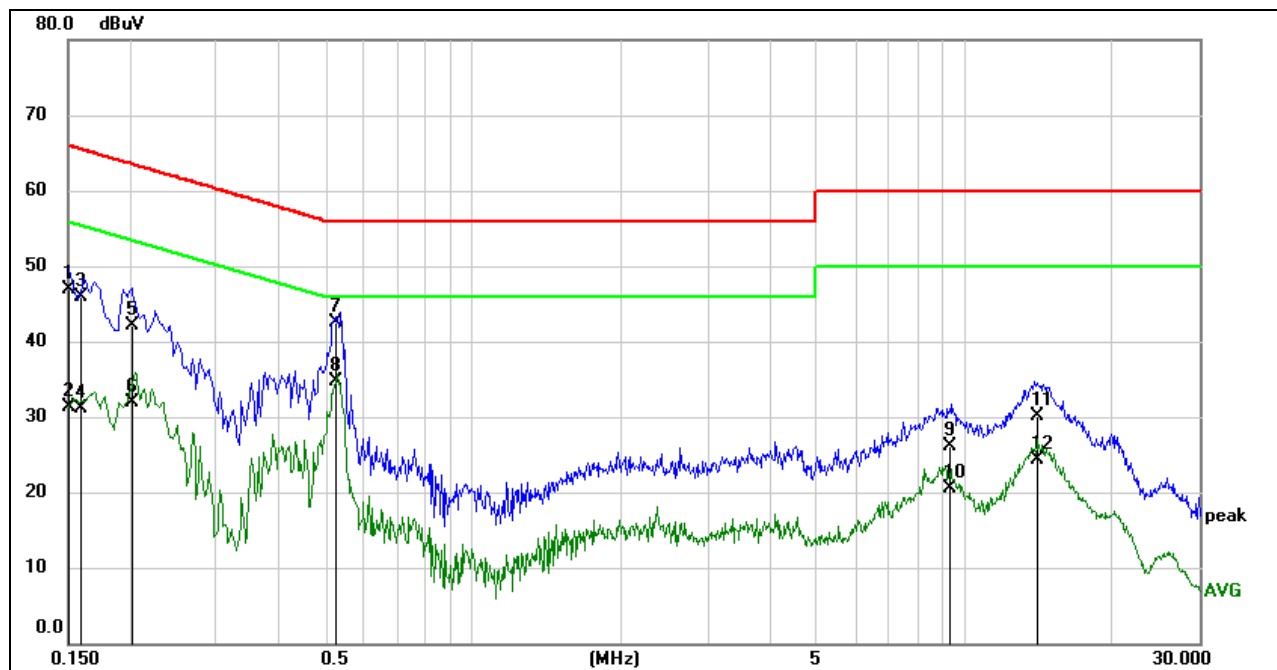
|              |          |                    |              |
|--------------|----------|--------------------|--------------|
| Temperature: | 24.5°C   | Relative Humidity: | 55%          |
| Pressure:    | 1012 hPa | Test Voltage:      | AC 120V/60Hz |
| Test Mode:   | Tx Mode  | Phase :            | L            |
| Remark:      | N/A      |                    |              |



| No. | Frequency (MHz) | Reading (dBuV) | Correct dB | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|------------|---------------|--------------|-------------|--------|
| 1   | 0.1535          | 37.24          | 9.66       | 46.90         | 65.81        | -18.91      | QP     |
| 2   | 0.1535          | 22.21          | 9.66       | 31.87         | 55.81        | -23.94      | AVG    |
| 3   | 0.1754          | 34.78          | 9.66       | 44.44         | 64.70        | -20.26      | QP     |
| 4   | 0.1754          | 21.23          | 9.66       | 30.89         | 54.70        | -23.81      | AVG    |
| 5   | 0.2380          | 28.23          | 9.65       | 37.88         | 62.17        | -24.29      | QP     |
| 6   | 0.2380          | 18.07          | 9.65       | 27.72         | 52.17        | -24.45      | AVG    |
| 7   | 0.5292          | 30.29          | 9.65       | 39.94         | 56.00        | -16.06      | QP     |
| 8   | 0.5292          | 21.80          | 9.65       | 31.45         | 46.00        | -14.55      | AVG    |
| 9   | 8.7534          | 17.16          | 9.77       | 26.93         | 60.00        | -33.07      | QP     |
| 10  | 8.7534          | 11.37          | 9.77       | 21.14         | 50.00        | -28.86      | AVG    |
| 11  | 13.6892         | 16.57          | 9.81       | 26.38         | 60.00        | -33.62      | QP     |
| 12  | 13.6892         | 11.05          | 9.81       | 20.86         | 50.00        | -29.14      | AVG    |

Note: 1. Result = Reading +Correct Factor.  
 2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
 3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
 4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

|              |          |                    |              |
|--------------|----------|--------------------|--------------|
| Temperature: | 24.5°C   | Relative Humidity: | 55%          |
| Pressure:    | 1012 hPa | Test Voltage:      | AC 120V/60Hz |
| Test Mode:   | Tx Mode  | Phase :            | N            |
| Remark:      | N/A      |                    |              |



| No. | Frequency (MHz) | Reading (dBuV) | Correct dB | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|-----------------|----------------|------------|---------------|--------------|-------------|--------|
| 1   | 0.1507          | 37.16          | 9.66       | 46.82         | 65.96        | -19.14      | QP     |
| 2   | 0.1507          | 21.55          | 9.66       | 31.21         | 55.96        | -24.75      | AVG    |
| 3   | 0.1587          | 36.24          | 9.66       | 45.90         | 65.53        | -19.63      | QP     |
| 4   | 0.1587          | 21.52          | 9.66       | 31.18         | 55.53        | -24.35      | AVG    |
| 5   | 0.2017          | 32.55          | 9.65       | 42.20         | 63.54        | -21.34      | QP     |
| 6   | 0.2017          | 22.25          | 9.65       | 31.90         | 53.54        | -21.64      | AVG    |
| 7   | 0.5284          | 32.83          | 9.65       | 42.48         | 56.00        | -13.52      | QP     |
| 8   | 0.5284          | 25.03          | 9.65       | 34.68         | 46.00        | -11.32      | AVG    |
| 9   | 9.3086          | 16.43          | 9.77       | 26.20         | 60.00        | -33.80      | QP     |
| 10  | 9.3086          | 10.79          | 9.77       | 20.56         | 50.00        | -29.44      | AVG    |
| 11  | 13.9434         | 20.19          | 9.82       | 30.01         | 60.00        | -29.99      | QP     |
| 12  | 13.9434         | 14.58          | 9.82       | 24.40         | 50.00        | -25.60      | AVG    |

- Note: 1. Result = Reading +Correct Factor.  
2. If QP Result complies with AV limit, AV Result is deemed to comply with AV limit.  
3. Test setup: RBW: 200 Hz (9 kHz—150 kHz), 9 kHz (150 kHz—30 MHz).  
4. Step size: 80Hz (0.009MHz-0.15MHz), 4 kHz (0.15MHz-30MHz), Scan time: auto.

Note: All the modulation and channels had been tested, but only the worst data recorded in the report.

## **10. ANTENNA REQUIREMENTS**

### **APPLICABLE REQUIREMENTS**

Please refer to FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Please refer to FCC §15.247(b)(4)

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### **ANTENNA CONNECTOR**

EUT has a Dipole Antenna with RP-SMA antenna connector.

### **ANTENNA GAIN**

The antenna gain of EUT is less than 6 dBi.

## **END OF REPORT**