

## FCC RADIO TEST REPORT

For  
FCC ID: 2AQYQ-T10

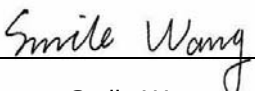
Report Reference No. .... : 19EFAS05015 0981  
Date of issue ..... : 2019-07-23  
Testing Laboratory ..... : DongGuan ShuoXin Electronic Technology Co., Ltd.  
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Applicant's name ..... : Heyuan Vastking Electronic Co., Ltd  
Address ..... : No.13 Hepu Road ,Yuancheng District, Heyuan City, China  
Manufacturer ..... : Heyuan Vastking Electronic Co., Ltd

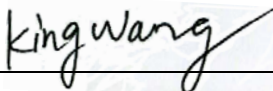
### Test specification:

Test item description ..... : Android Tablet PC  
Trade Mark ..... : Winnovo  
Model/Type reference ..... : T10, T7, T8  
Ratings ..... : Adapter 1:  
Model: EE-0502000UZ  
INPUT: 100-240V~ 50/60Hz 0.5A OUTPUT: DC 5V 2A  
Adapter 2:  
Model: EE-0501500UZ  
INPUT: 100-240V~ 50/60Hz 0.5A OUTPUT: DC 5V 1.5A  
DC 3.7 from battery

Responsible Engineer :

  
Smile Wang

Authorized Signatory:

  
King Wang

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## TEST REPORT DECLARE

|                             |   |                                                         |
|-----------------------------|---|---------------------------------------------------------|
| <b>Applicant</b>            | : | Heyuan Vastking Electronic Co., Ltd                     |
| <b>Address</b>              | : | No.13 Hepu Road ,Yuancheng District, Heyuan City, China |
| <b>Equipment under Test</b> | : | Android Tablet PC                                       |
| <b>Model No</b>             | : | T10, T7, T8                                             |
| <b>Trade Mark</b>           | : | Winnovo                                                 |
| <b>Manufacturer</b>         | : | Heyuan Vastking Electronic Co., Ltd                     |
| <b>Address</b>              | : | No.13 Hepu Road ,Yuancheng District, Heyuan City, China |

**Test Standard Used:** FCC Rules and Regulations Part 15 Subpart C (15.247)

**Test procedure used:** ANSI C63.10:2013, 558074 V05.

**We Declare:**

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

**After test and evaluation, our opinion is that the equipment provided for test compliance with the requirement of the above FCC standards.**

|                      |                  |                        |            |
|----------------------|------------------|------------------------|------------|
| <b>Report No:</b>    | 19EFAS05015 0981 |                        |            |
| <b>Date of Test:</b> | 2019-05-28       | <b>Date of Report:</b> | 2019-07-23 |

Note: This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of DongGuan ShuoXin Electronic Technology Co., Ltd.

## 1. Summary of test Standards and results

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

| Description of Test Item                    | Standard                                       | Results |
|---------------------------------------------|------------------------------------------------|---------|
| 6dB Bandwidth And<br>99% Occupied Bandwidth | FCC Part 15.247 (a)(2)                         | PASS    |
| Peak Output Power                           | FCC Part 15.247(b)(3)                          | PASS    |
| Power Spectral Density                      | FCC Part 15.247(e)                             | PASS    |
| Spurious Emissions at Antenna Port          | FCC Part 15.247(d)                             | PASS    |
| Spurious Emissions                          | FCC Part 15.205, 15.209,<br>FCC Part 15.247(d) | PASS    |
| 100 kHz Bandwidth of Frequency Band<br>Edge | FCC Part 15.247(d)                             | PASS    |
| AC Line Conducted Emissions                 | FCC Part 15.207 (a)                            | PASS    |
| Antenna requirement                         | FCC Part 15: 15.203                            | PASS    |

## 2. GENERAL TEST INFORMATION

### 2.1. Description of EUT

|                     |   |                                                                                                                                                                                                     |
|---------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EUT* Name           | : | Android Tablet PC                                                                                                                                                                                   |
| Model Number        | : | T10, T7, T8                                                                                                                                                                                         |
| Trade Mark          | : | Winnovo                                                                                                                                                                                             |
| Power supply        | : | Adapter 1:<br>Model: EE-0502000UZ<br>INPUT: 100-240V~ 50/60Hz 0.5A OUTPUT: DC 5V 2A<br>Adapter 2:<br>Model: EE-0501500UZ<br>INPUT: 100-240V~ 50/60Hz 0.5A OUTPUT: DC 5V 1.5A<br>DC 3.7 from battery |
| Adaptor             |   | Adaptor1(for T10): EE-0502000UZ<br>Adaptor2(for T7, T8): EE-0501500UZ                                                                                                                               |
| Radio Specification | : | IEEE802.11b/g/n20/n40                                                                                                                                                                               |
| Operation frequency | : | IEEE 802.11b: 2412MHz—2462MHz<br>IEEE 802.11g: 2412MHz—2462MHz<br>IEEE 802.11n20: HT20: 2412MHz—2462MHz<br>IEEE 802.11n40: HT40: 2422MHz—2452MHz                                                    |
| Modulation          | : | IEEE 802.11b: DSSS(CCK,DQPSK,DBPSK)<br>IEEE 802.11g: OFDM(64QAM, 16QAM, QPSK, BPSK)<br>IEEE 802.11n20: HT20: OFDM (64QAM, 16QAM, QPSK,BPSK)<br>IEEE 802.11n40: HT40: OFDM (64QAM, 16QAM, QPSK,BPSK) |
| Antenna Type        | : | FPCB Antenna, maximum PK gain: -1.07dBi                                                                                                                                                             |
| FVIN                |   | NA                                                                                                                                                                                                  |
| Sample Type         | : | N/A                                                                                                                                                                                                 |
| Model difference:   |   | Only Screen sizes, adaptor and Battery are different.                                                                                                                                               |

Note: EUT is the ab. of equipment under test.

### 2.2. Accessories of EUT

| Description of Accessories | Manufacturer                        | Model number or Type | Other  |
|----------------------------|-------------------------------------|----------------------|--------|
| Adaptor                    | Shenzhen YingQin Electronic CO.,LTD | EE-0502000UZ         | T10    |
| Adaptor                    | Shenzhen YingQin Electronic CO.,LTD | EE-0501500UZ         | T7, T8 |

### 2.3. Assistant equipment used for test

| Description of Assistant equipment | Manufacturer | Model number or Type | Other |
|------------------------------------|--------------|----------------------|-------|
| /                                  | /            | /                    | /     |

## 2.4. Block diagram of EUT configuration for test



EUT was connected to control to a special test jig provided by manufacturer which run EngineerMode test software provided by manufacturer to control EUT work in test mode as blow table.

| Tested mode, channel, and data rate information |                                |             |                    |
|-------------------------------------------------|--------------------------------|-------------|--------------------|
| Mode                                            | data rate (Mbps)<br>(see Note) | Channel     | Frequency<br>(MHz) |
| IEEE 802.11b                                    | 1                              | Low :CH1    | 2412               |
|                                                 | 1                              | Middle: CH6 | 2437               |
|                                                 | 1                              | High: CH11  | 2462               |
| IEEE 802.11g                                    | 6                              | Low :CH1    | 2412               |
|                                                 | 6                              | Middle: CH6 | 2437               |
|                                                 | 6                              | High: CH11  | 2462               |
| IEEE 802.11n HT20                               | MCS 0                          | Low :CH1    | 2412               |
|                                                 | MCS 0                          | Middle: CH6 | 2437               |
|                                                 | MCS 0                          | High: CH11  | 2462               |
| IEEE 802.11n HT40                               | MCS 0                          | Low :CH3    | 2422               |
|                                                 | MCS 0                          | Middle: CH6 | 2437               |
|                                                 | MCS 0                          | High: CH9   | 2452               |

Note: 1. According exploratory test, EUT will have maximum output power in those data rate, so those data rate were used for all test.  
 2. The EUT was used fully-charged battery and programmed to be in continuously transmitting mode and the transmit duty cycle is not less than 98%.

## 2.5. Test environment conditions

During the measurement the environmental conditions were within the listed ranges:

|                    |           |
|--------------------|-----------|
| Temperature range: | 21-25℃    |
| Humidity range:    | 40-75%    |
| Pressure range:    | 86-106kPa |

## 2.6. Measurement uncertainty

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

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

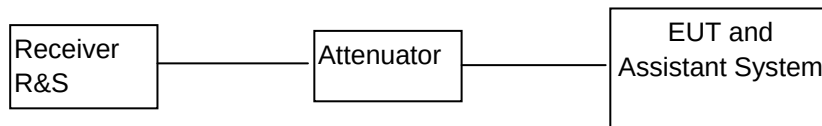


### 3. 6dB Bandwidth and 99% Occupied Bandwidth

#### 3.1. Test equipment

| Item | Equipment         | Manufacturer  | Model No.   | Serial No. | Calibrated until | Calibrated Date |
|------|-------------------|---------------|-------------|------------|------------------|-----------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 05/25/2020       | 05/26/2019      |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | 12/17/2019       | 12/18/2018      |
| 3    | RF Cable          | Micable       | C10-01-01-1 | 100309     | 12/17/2019       | 12/18/2018      |
| 4    | Spectrum analyzer | R&S           | FSV40       | 101470     | 06/28/2019       | 06/29/2018      |

#### 3.2. Block diagram of test setup



#### 3.3. Limits

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500 KHz

#### 3.4. Test Procedure

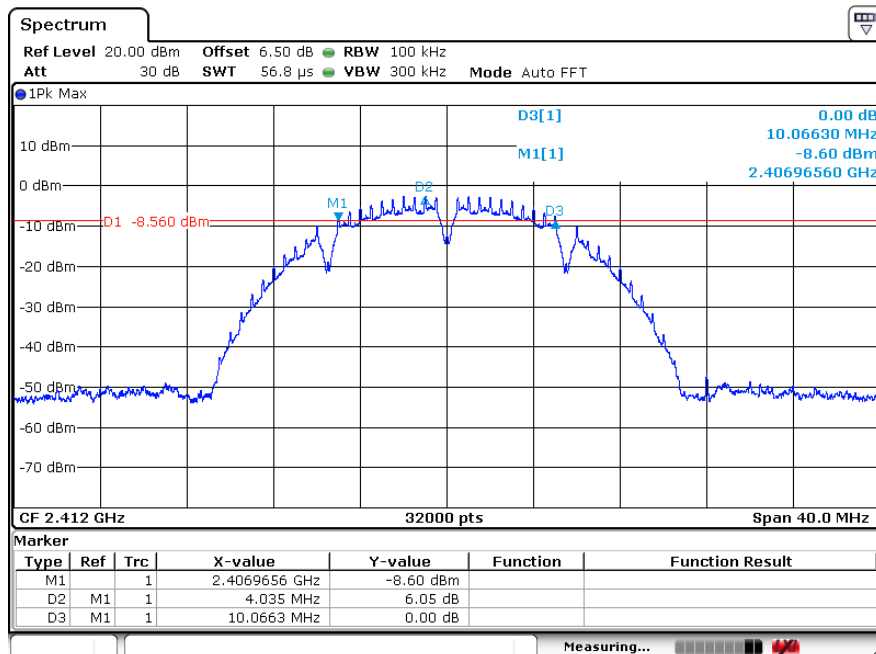
- (1) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- (2) Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- (3) Measure the frequency difference of two frequencies that were attenuated 6 dB from the reference level. Record the frequency difference as the emission bandwidth.
- (4) Repeat above procedures until all frequencies measured were complete.

### 3. Test Result

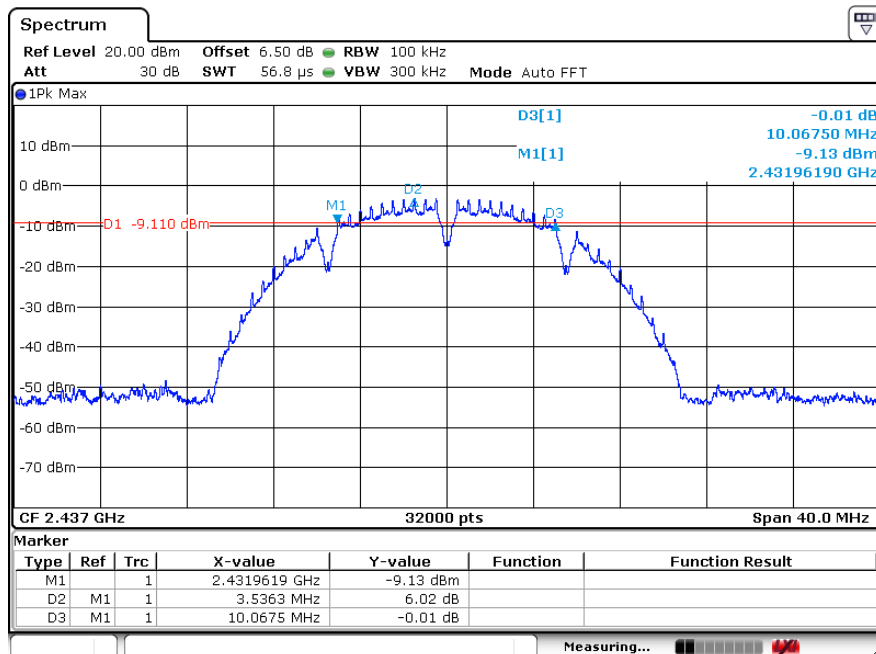
| EUT Set Mode   | CH or Frequency | 6 dB bandwidth | 99% dB bandwidth | Limt    | Conclusion |
|----------------|-----------------|----------------|------------------|---------|------------|
|                |                 | Result (MHz)   | Result (MHz)     | >500KHz | PASS       |
| IEEE 802.11B   | CH 1            | 10.0663        | /                | >500KHz | PASS       |
|                | CH 6            | 10.0675        | /                |         | PASS       |
|                | CH 11           | 10.0638        | /                |         | PASS       |
| IEEE 802.11G   | CH 1            | 16.3388        | /                |         | PASS       |
|                | CH 6            | 16.3475        | /                |         | PASS       |
|                | CH 11           | 16.3450        | /                |         | PASS       |
| IEEE 802.11N20 | CH 1            | 17.5975        | /                |         | PASS       |
|                | CH 6            | 17.5738        | /                |         | PASS       |
|                | CH 11           | 17.5788        | /                |         | PASS       |
| IEEE 802.11N40 | CH 3            | 35.8825        | /                |         | PASS       |
|                | CH 6            | 35.9100        | /                |         | PASS       |
|                | CH 9            | 35.7225        | /                |         | PASS       |

### 3.6. Original test data

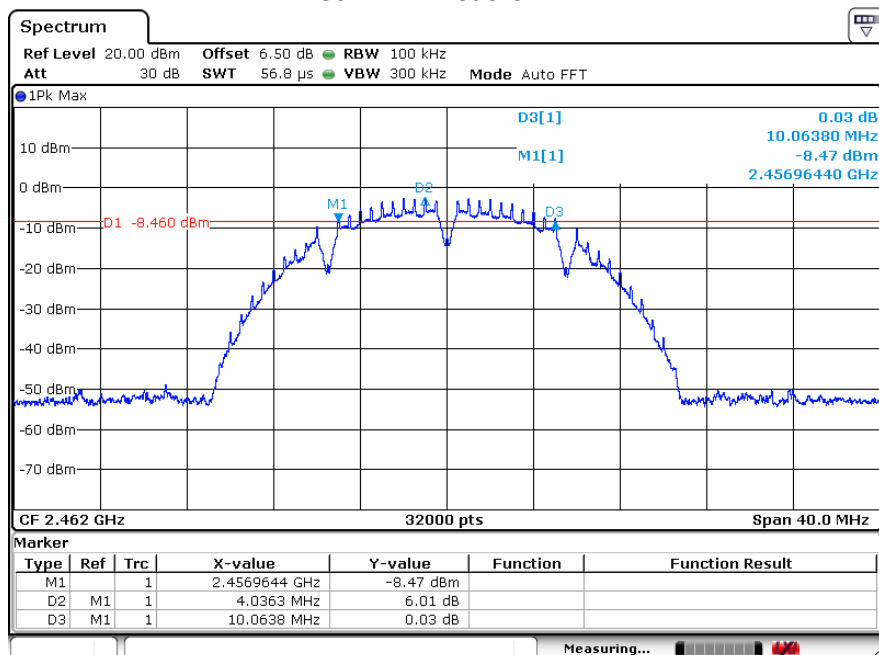
802.11 B Mode CH1



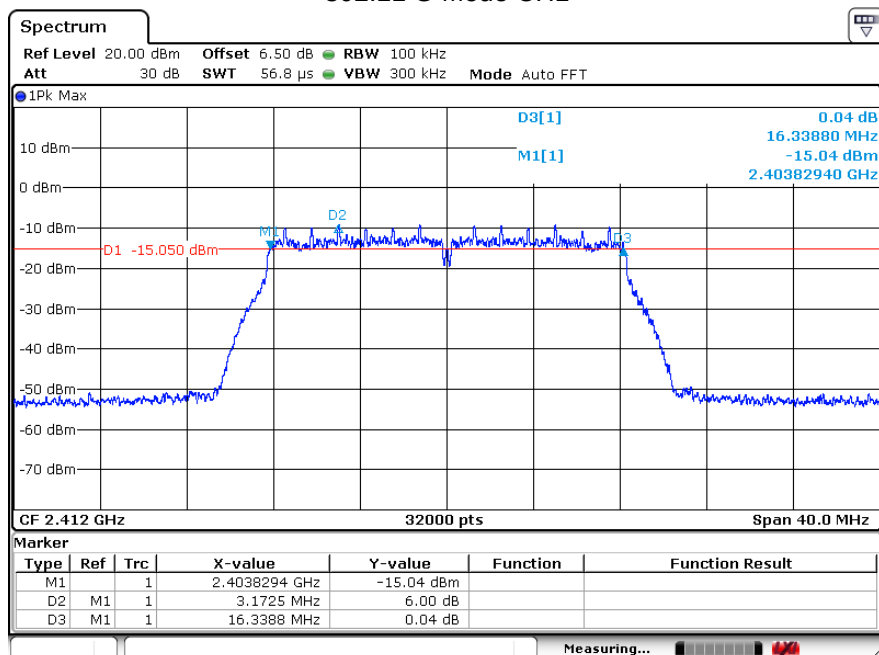
802.11 B Mode CH6



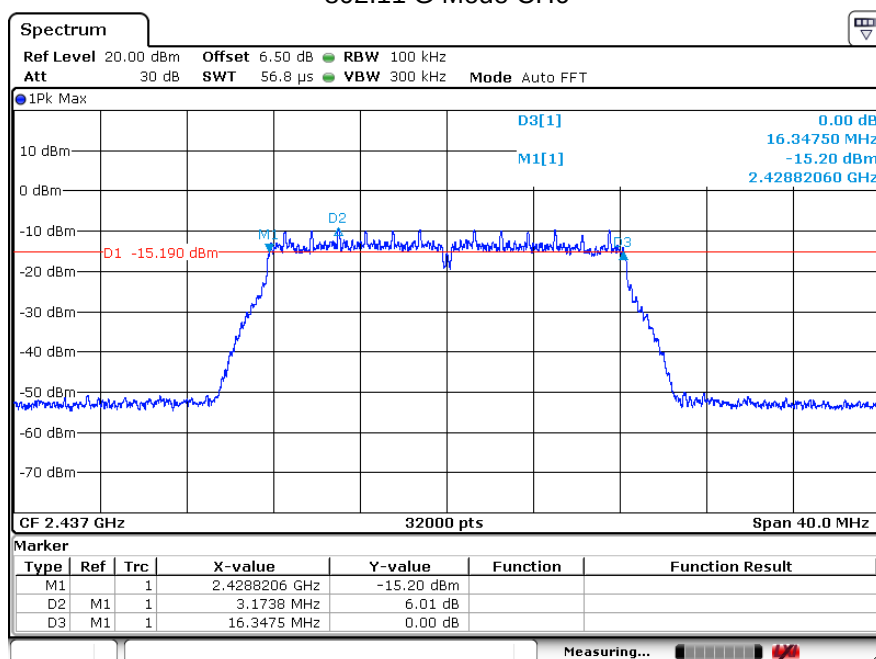
## 802.11 B Mode CH11



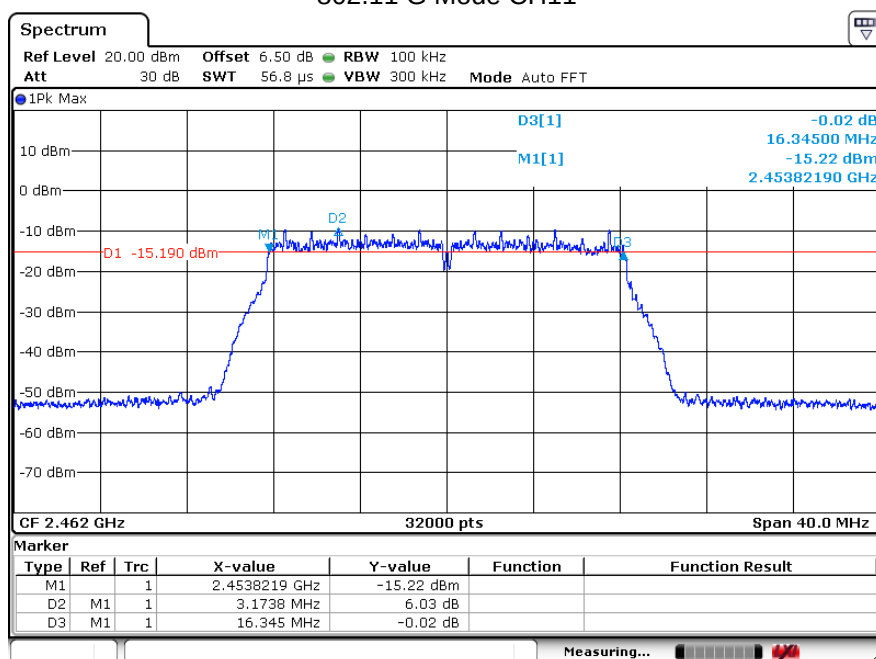
## 802.11 G Mode CH1



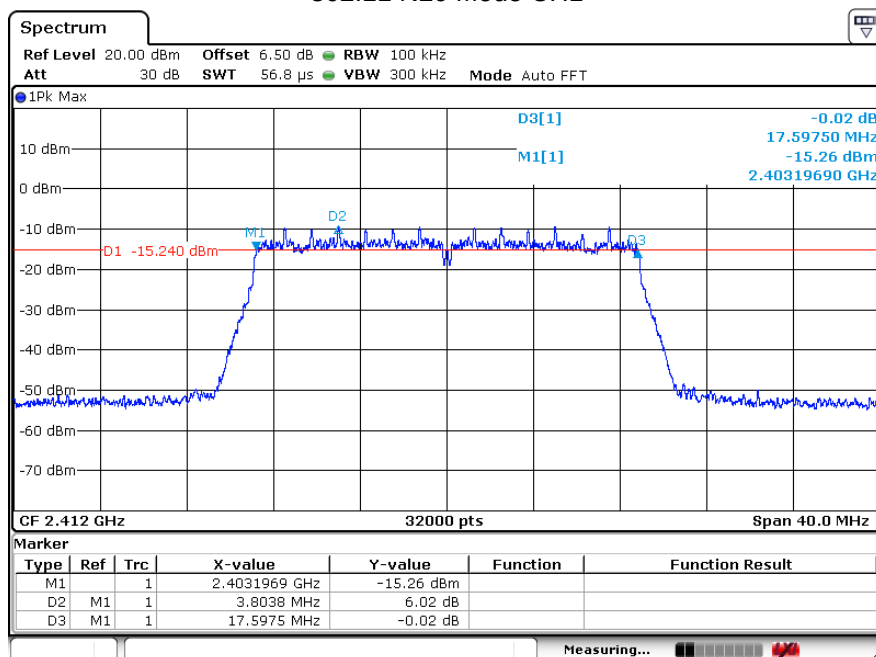
## 802.11 G Mode CH6



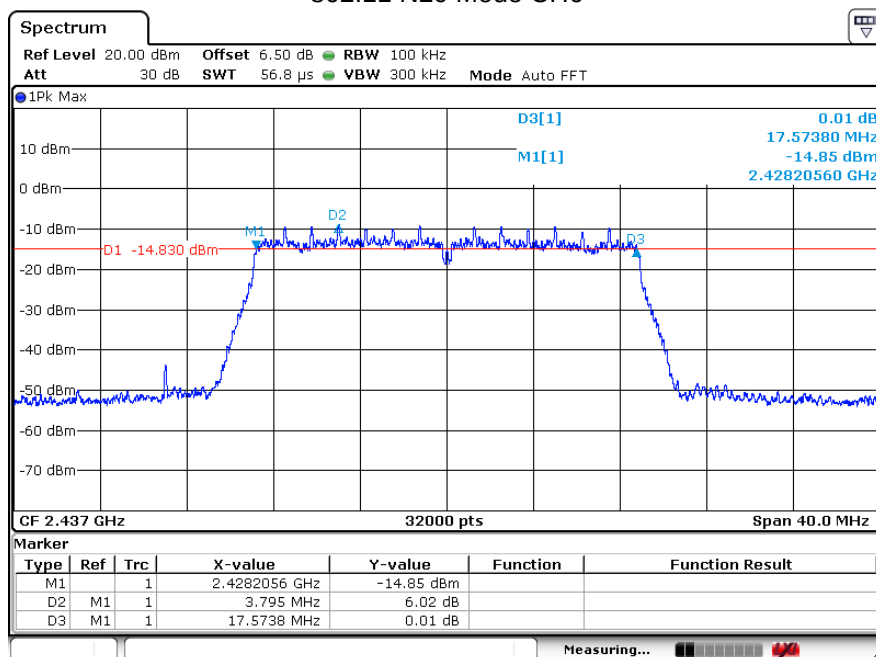
## 802.11 G Mode CH11



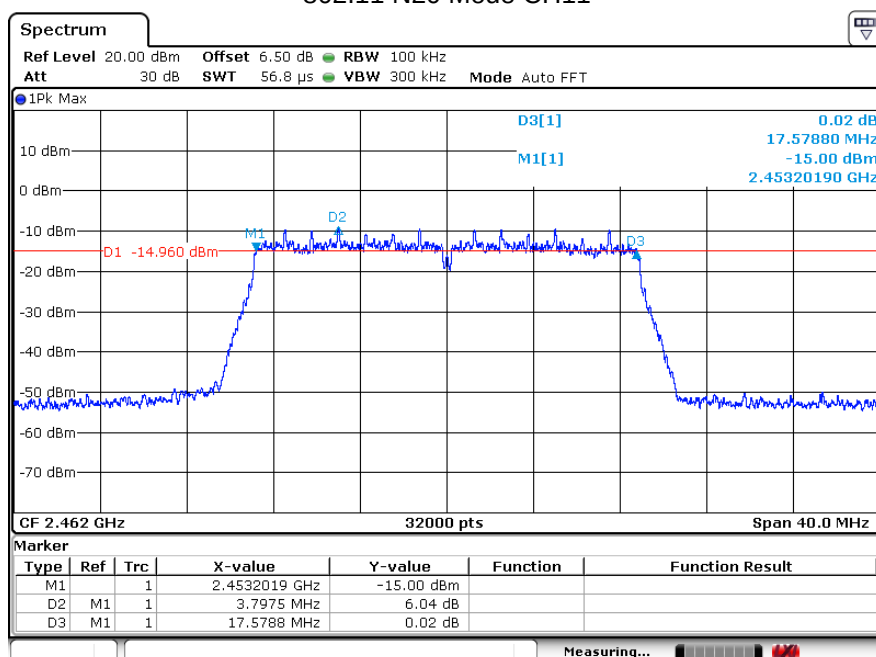
## 802.11 N20 Mode CH1



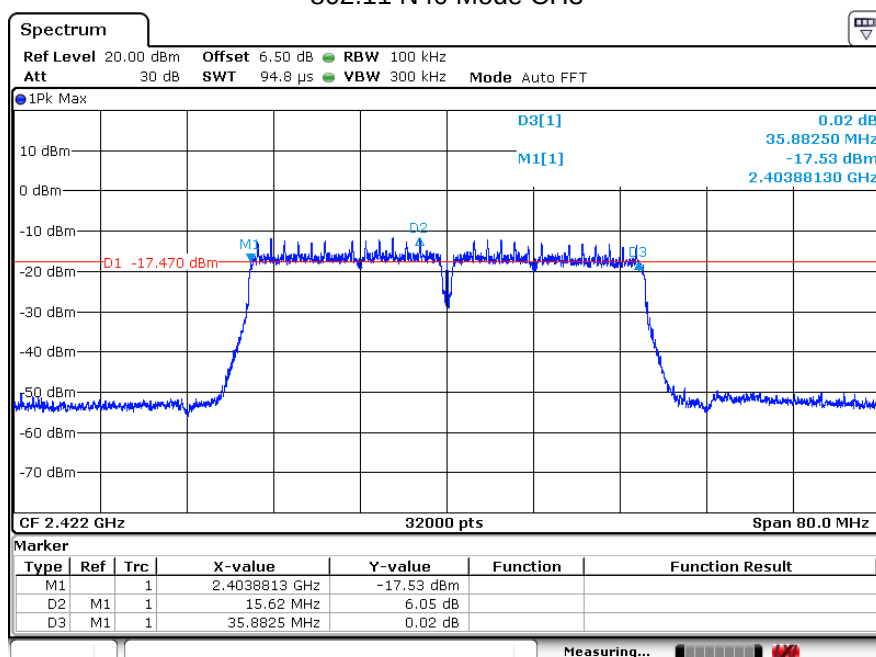
## 802.11 N20 Mode CH6



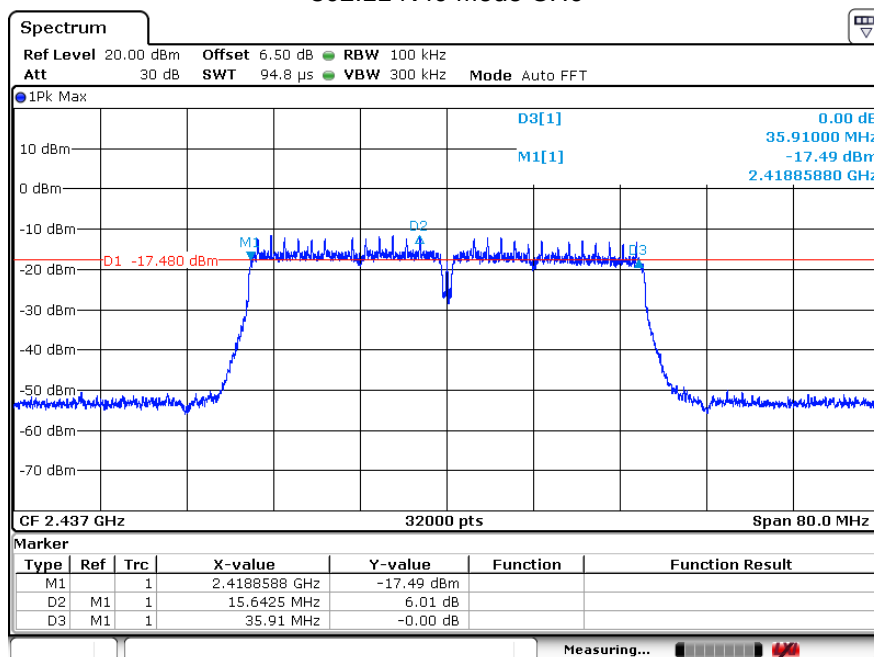
## 802.11 N20 Mode CH11



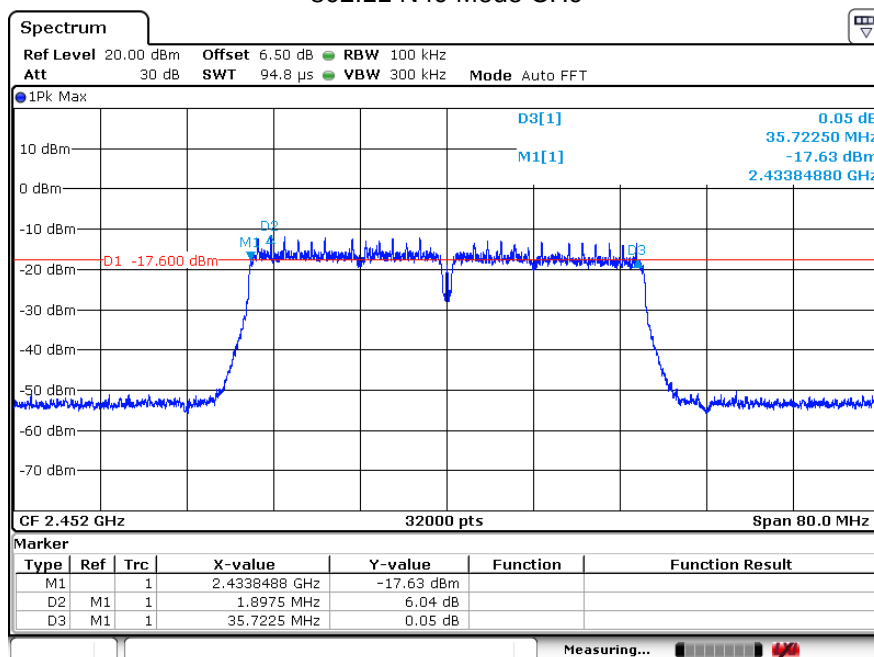
## 802.11 N40 Mode CH3



## 802.11 N40 Mode CH6



## 802.11 N40 Mode CH9



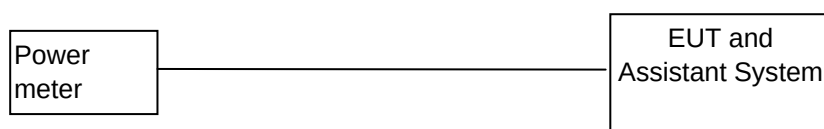


## 4. Maximum Peak Output Power

### 4.1. Test equipment

| Item | Equipment             | Manufacturer | Model No.   | Serial No. | Calibrated until | Calibrated Date |
|------|-----------------------|--------------|-------------|------------|------------------|-----------------|
| 1    | Power meter           | Agilent      | E4417A      | MY45100473 | 05/26/2020       | 05/27/2019      |
| 2    | Wireband Power sensor | Agilent      | E4427A      | MY5100041  | 12/17/2019       | 12/18/2018      |
| 3    | RF Cable              | Micable      | C10-01-01-1 | 100309     | 12/17/2019       | 12/18/2018      |

### 4.2. Block diagram of test setup



### 4.3. Limits

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz bands: 1 Watt. 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 as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

### 4.4. Test Procedure

1. Place the EUT on a bench and set it in transmitting mode.
2. A wide band power meter with a matched thermocouple detector was used to directly measure the output power from the RF output port of the EUT in continuously transmitting mode.
3. The measurement shall be repeated at the lowest, the middle, and the highest channel of the stated frequency range.

#### 4.5. TEST RESULT

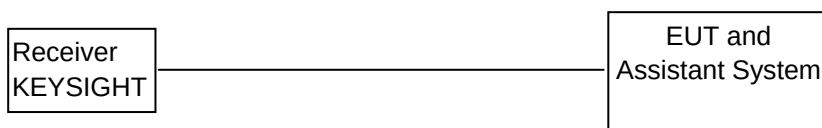
| EUT Set Mode   | CH    | Result(dBm) | Total Power<br>(dBm) | Limit | Conclusion |
|----------------|-------|-------------|----------------------|-------|------------|
|                |       | Peak        |                      |       |            |
| IEEE 802.11B   | CH 1  | 8.88        | /                    | 30dBm | PASS       |
|                | CH 6  | 8.93        | /                    | 30dBm | PASS       |
|                | CH 11 | 8.97        | /                    | 30dBm | PASS       |
| IEEE 802.11G   | CH 1  | 8.24        | /                    | 30dBm | PASS       |
|                | CH 6  | 8.41        | /                    | 30dBm | PASS       |
|                | CH 11 | 8.44        | /                    | 30dBm | PASS       |
| IEEE 802.11N20 | CH 1  | 8.19        | /                    | 30dBm | PASS       |
|                | CH 6  | 8.35        | /                    | 30dBm | PASS       |
|                | CH 11 | 8.39        | /                    | 30dBm | PASS       |
| IEEE 802.11N40 | CH 3  | 8.15        | /                    | 30dBm | PASS       |
|                | CH 6  | 8.32        | /                    | 30dBm | PASS       |
|                | CH 9  | 8.34        | /                    | 30dBm | PASS       |

## 5. Power Spectral Density

### 5.1. Test equipment

| Item | Equipment         | Manufacturer  | Model No.   | Serial No. | Calibrated until | Calibrated Date |
|------|-------------------|---------------|-------------|------------|------------------|-----------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 05/26/2020       | 05/27/2019      |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | 12/17/2019       | 12/18/2018      |
| 3    | RF Cable          | Micable       | C10-01-01-1 | 100309     | 12/17/2019       | 12/18/2018      |
| 4    | Spectrum analyzer | R&S           | FSV40       | 101470     | 06/28/2019       | 06/29/2018      |

### 5.2. Block diagram of test setup



### 5.3. Limits

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

#### 5.4. TEST PROCEDURE

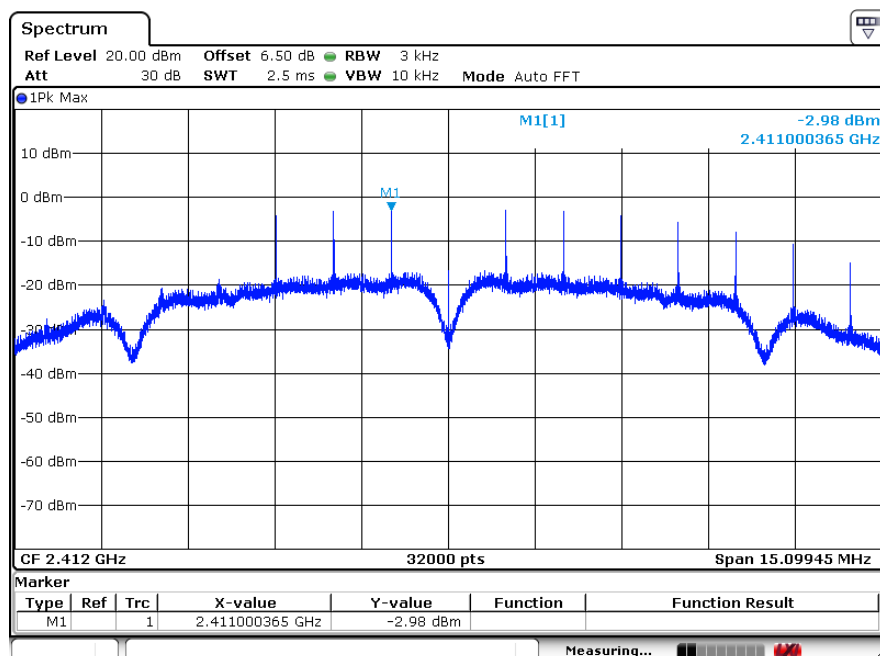
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generatorl.
2. Position the EUT was set without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range
3. According to KDB 558074 D01 DTS Meas Guidance v03, set the RBW = 3 kHz, VBW = 30 kHz, Set the span to 1.5 times the DTS channel bandwidth.
4. Use the peak marker function to determine the maximum power level in any 3 kHz band segment within the fundamental EBW

#### 5.5. Test Result

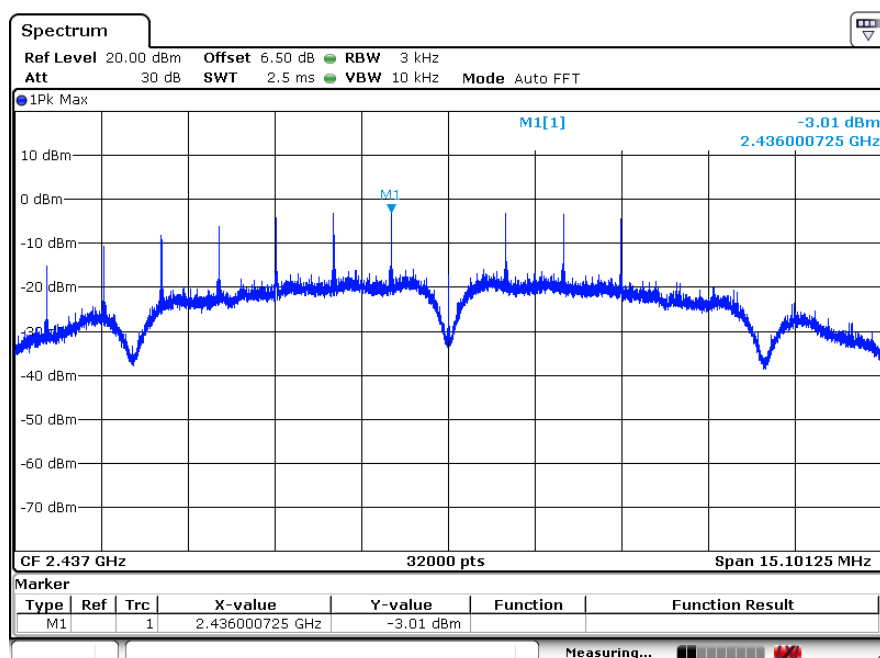
| EUT Set Mode   | CH    | Result(dBm) | Total (dBm) | Limit (dBm) | Conclusion |
|----------------|-------|-------------|-------------|-------------|------------|
| IEEE 802.11B   | CH 1  | -2.98       | /           | 8           | PASS       |
|                | CH 6  | -3.01       | /           | 8           | PASS       |
|                | CH 11 | -2.91       | /           | 8           | PASS       |
| IEEE 802.11G   | CH 1  | -19.85      | /           | 8           | PASS       |
|                | CH 6  | -20.78      | /           | 8           | PASS       |
|                | CH 11 | -21.11      | /           | 8           | PASS       |
| IEEE 802.11N20 | CH 1  | -19.95      | /           | 8           | PASS       |
|                | CH 6  | -20.69      | /           | 8           | PASS       |
|                | CH 11 | -21.43      | /           | 8           | PASS       |
| IEEE 802.11N40 | CH 3  | -20.76      | /           | 8           | PASS       |
|                | CH 6  | -21.10      | /           | 8           | PASS       |
|                | CH 9  | -21.94      | /           | 8           | PASS       |

## 5.6. Original test data

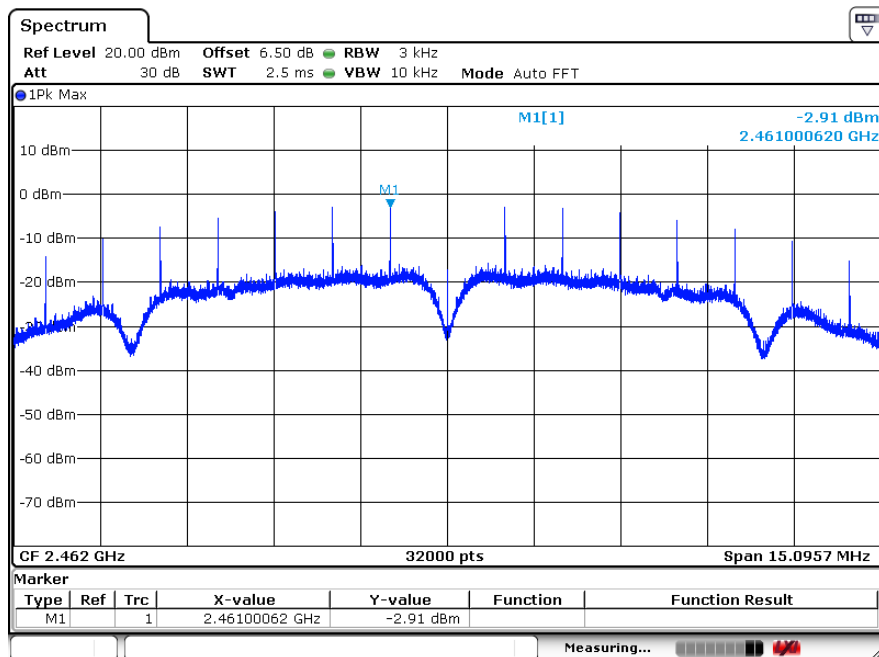
802.11 B Mode CH1



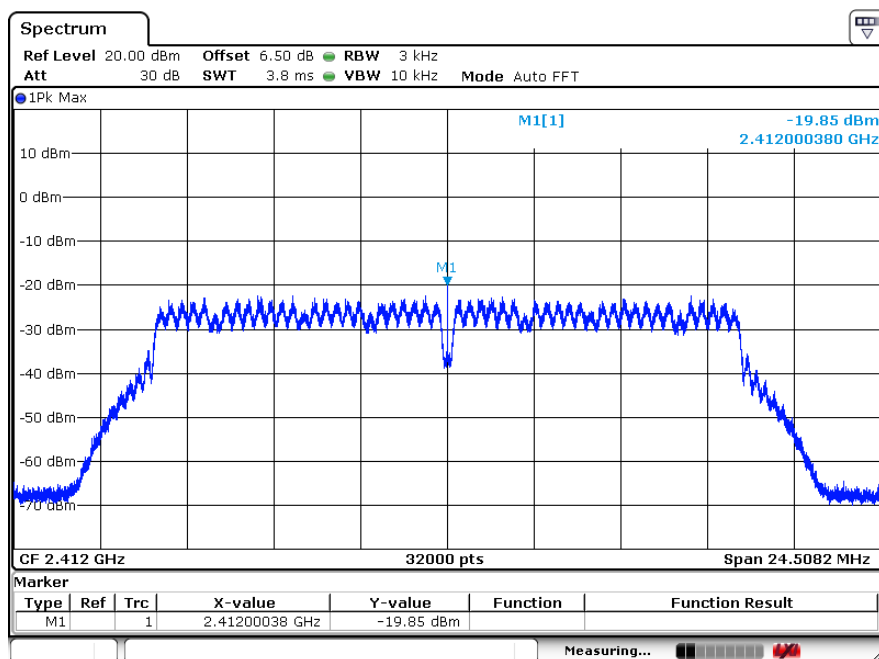
802.11 B Mode CH6



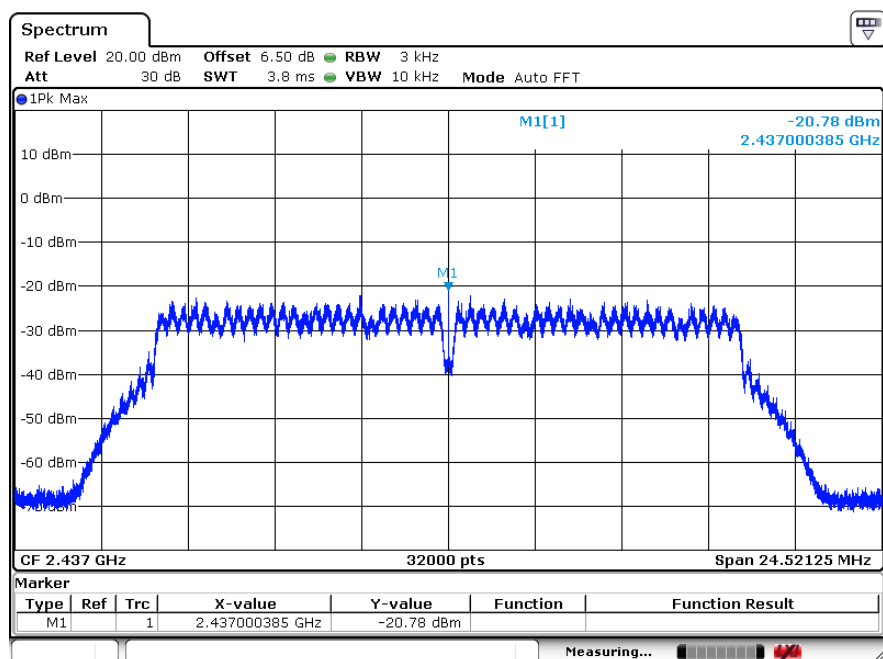
## 802.11 B Mode CH11



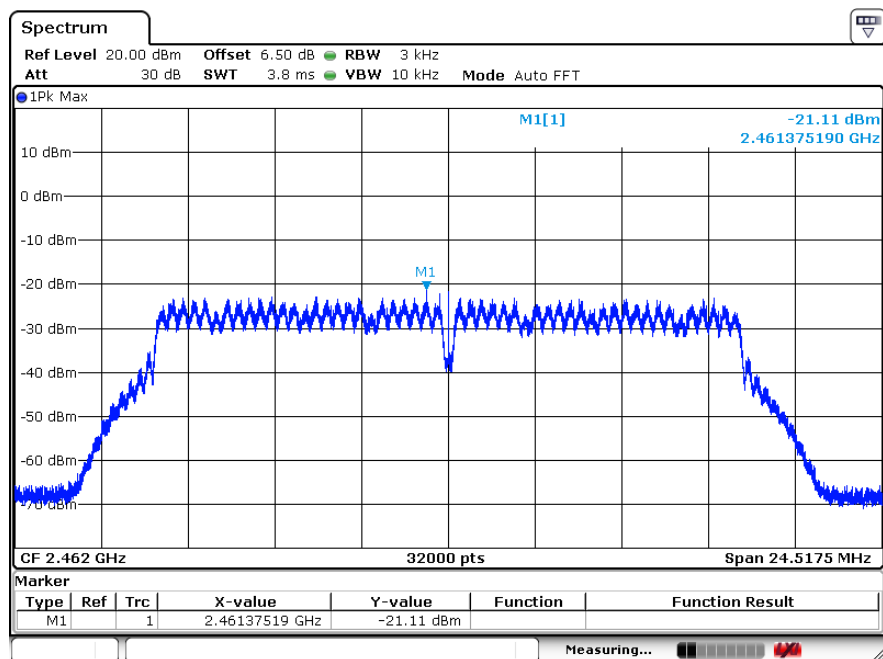
## 802.11 G Mode CH1



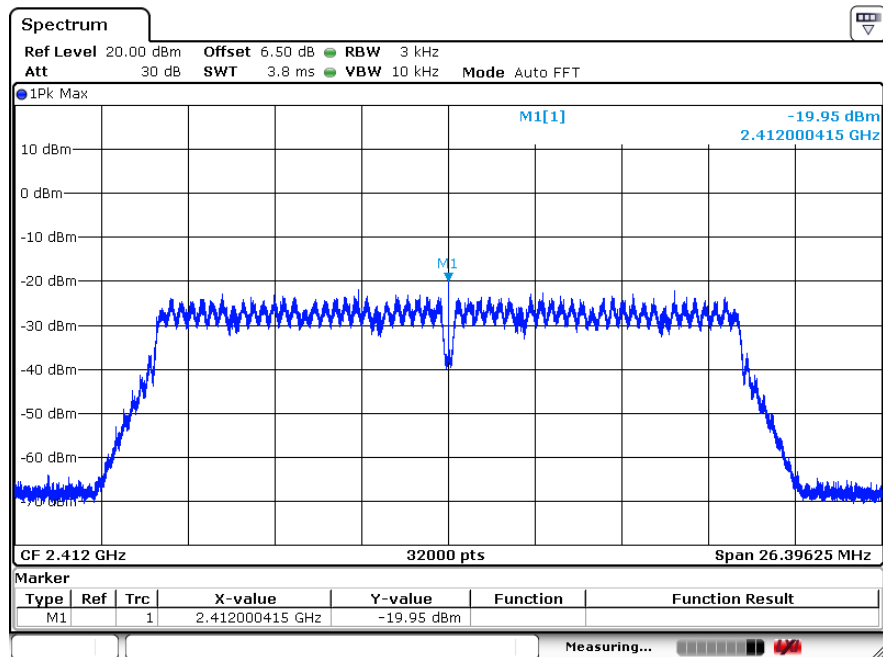
## 802.11 G Mode CH6



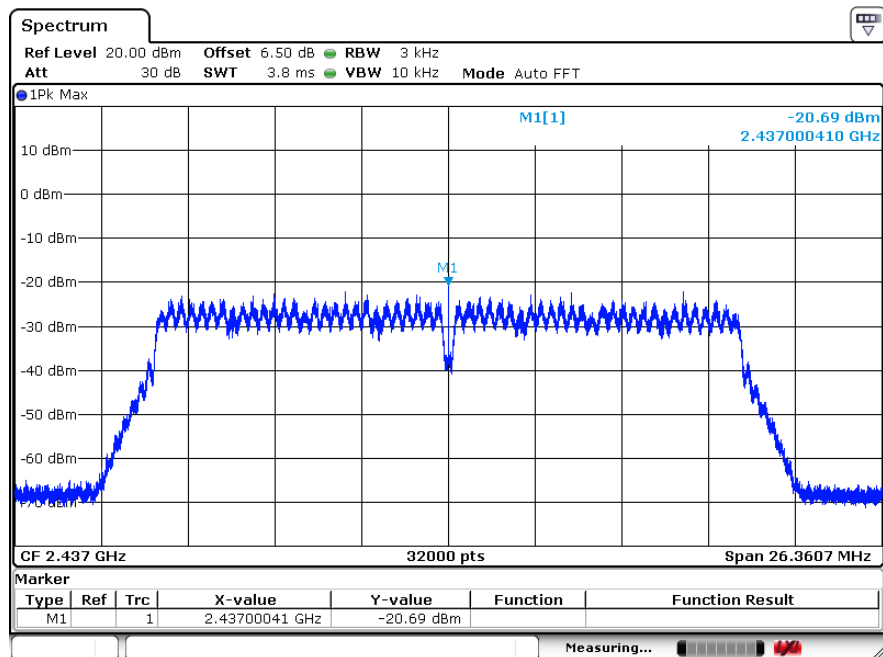
## 802.11 G Mode CH11



## 802.11 N20 Mode CH1

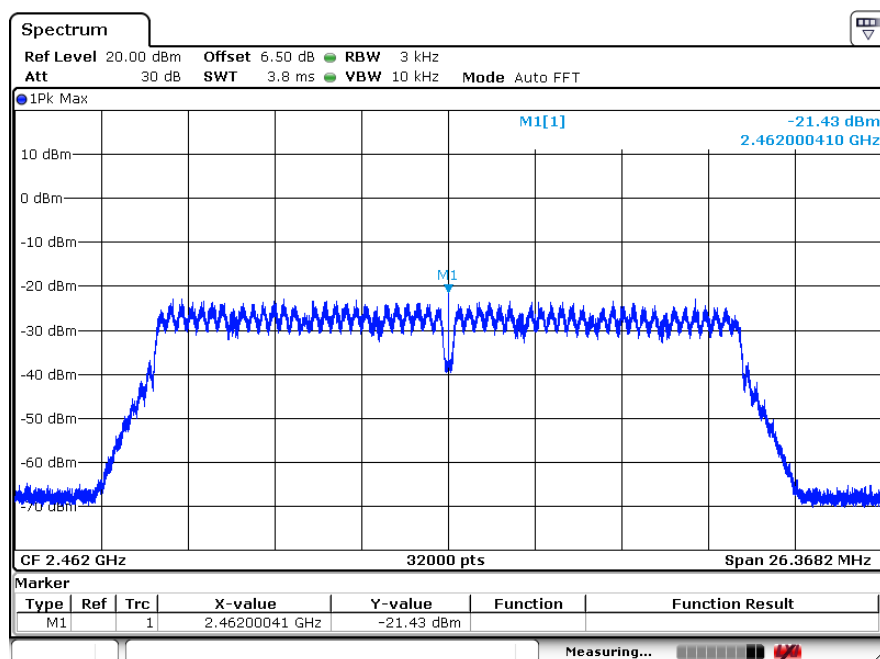


## 802.11 N20 Mode CH6

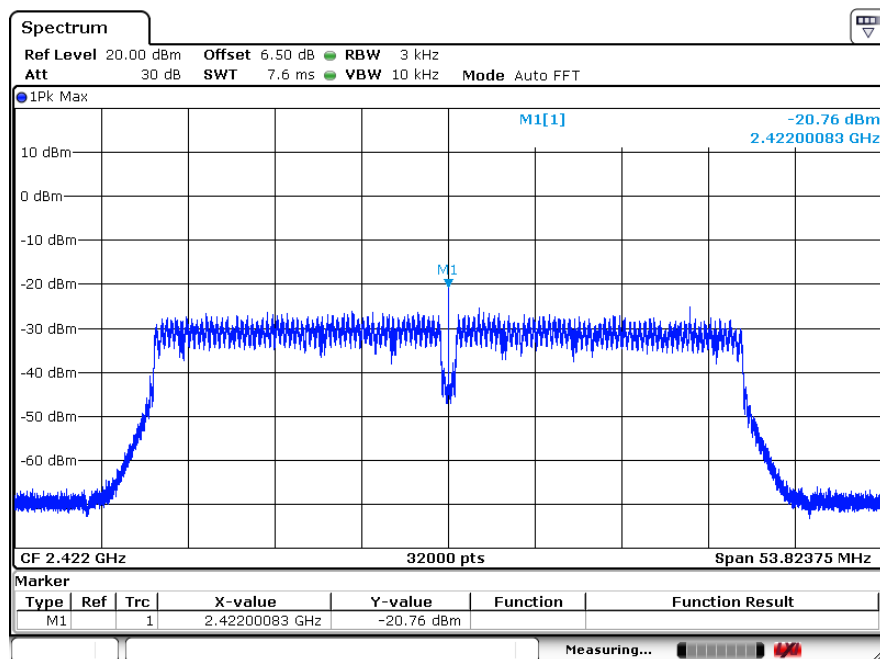




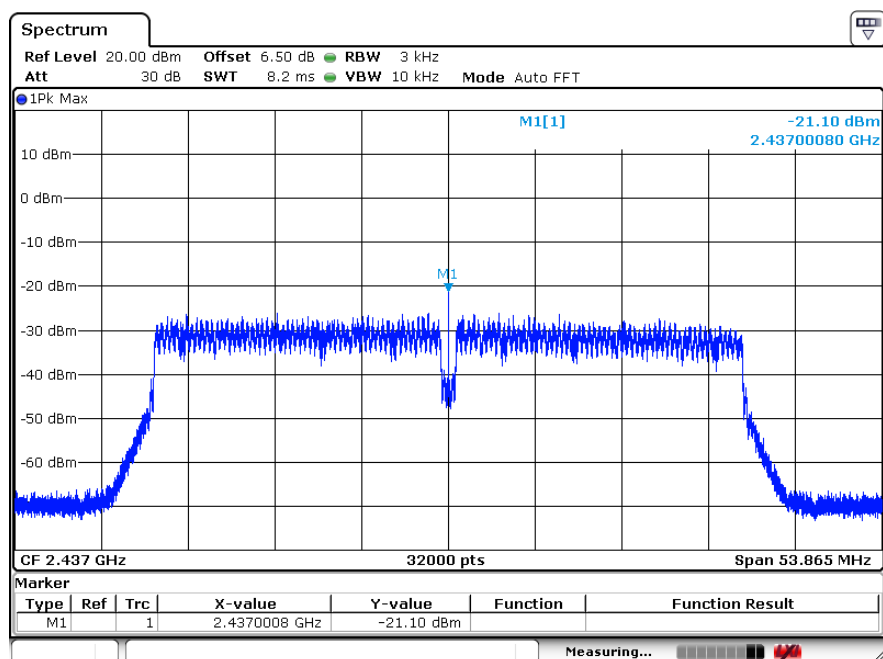
## 802.11 N20 Mode CH11



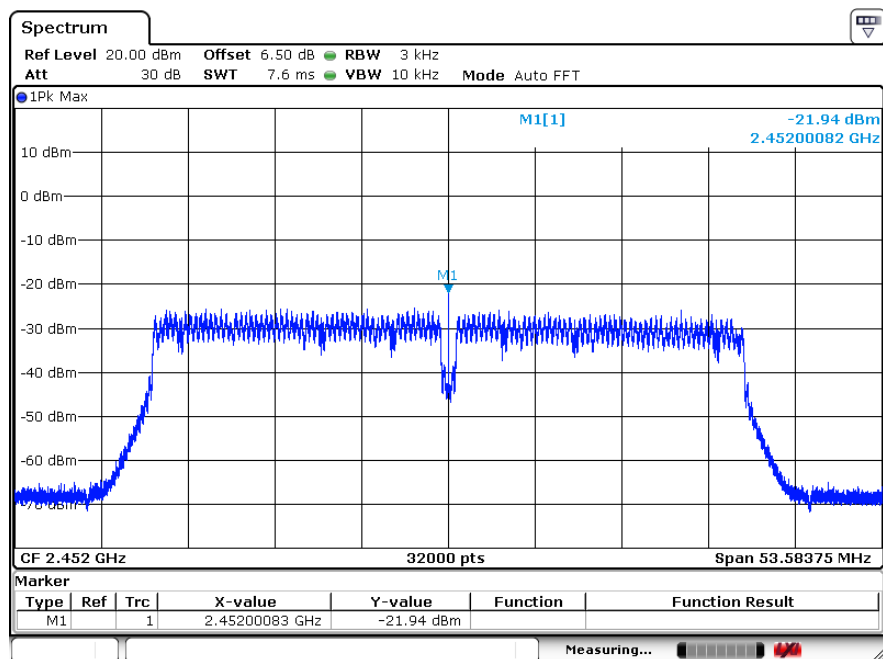
## 802.11 N40 Mode CH3



## 802.11 N40 Mode CH6



## 802.11 N40 Mode CH9



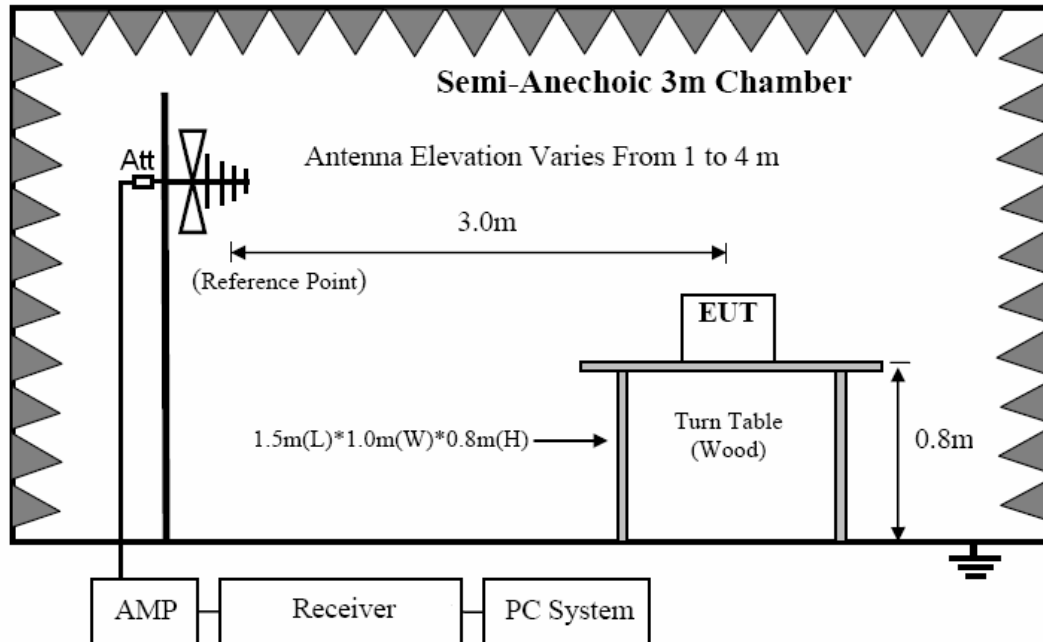
## 6. Spurious Emissions

### 6.1. Test equipment

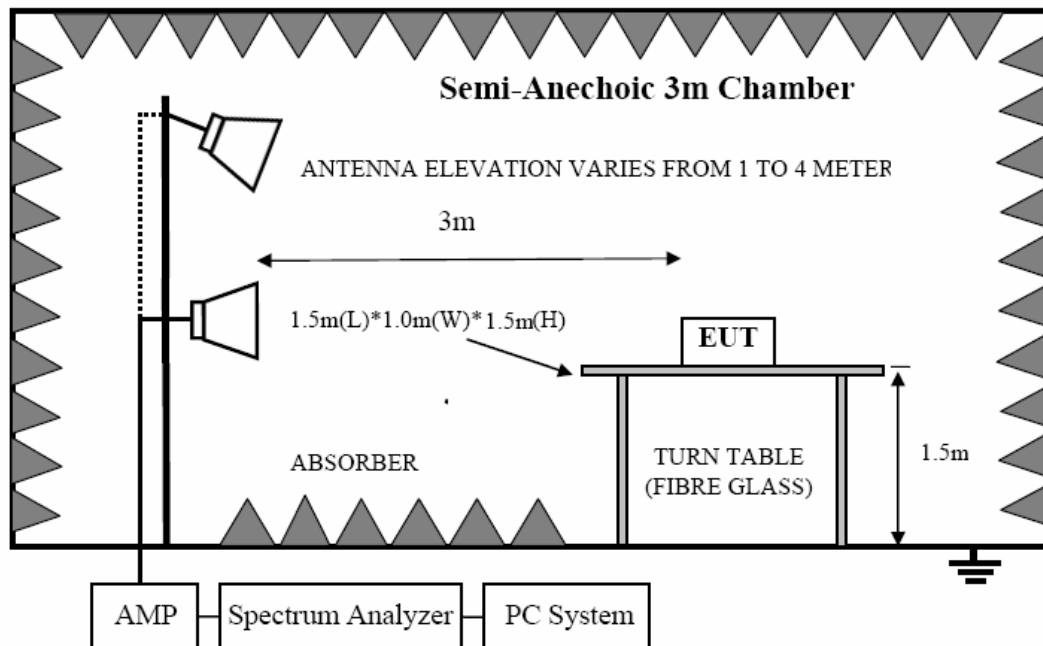
| Item | Equipment                  | Manufacturer | Model No.             | Serial No.   | Calibrated until | Calibrated Date |
|------|----------------------------|--------------|-----------------------|--------------|------------------|-----------------|
| 1    | EMI Test Receiver          | R&S          | ESCI                  | 101307       | 12/17/2019       | 12/18/2018      |
| 2    | Spectrum analyzer          | Agilent      | E4407B                | US40240708   | 07/04/2019       | 07/05/2018      |
| 3    | Trilog Broadband Antenna   | Schwarzbeck  | VULB9168              | VULB9168-192 | 03/04/2020       | 03/05/2019      |
| 4    | Double Ridged Horn Antenna | SCHWARZBEC K | BBHA 9120D1065        | 100276       | 12/17/2019       | 12/18/2018      |
| 5    | Double Ridged Horn Antenna | SCHWARZBEC K | BBHA 9120D1065        | 100546       | 12/17/2019       | 12/18/2018      |
| 6    | Dipole antenna             | Schwarzbeck  | UHAP                  | 1101         | 12/17/2019       | 12/18/2018      |
| 7    | Dipole antenna             | Schwarzbeck  | VHAP                  | 1118         | 12/17/2019       | 12/18/2018      |
| 8    | Pre-Amplifier              | CY           | EMC011830             | 980136       | 12/17/2019       | 12/18/2018      |
| 9    | Pre-amplifier              | HP           | 8447F                 | 3113A05680   | 12/17/2019       | 12/18/2018      |
| 10   | RF Cable                   | R&S          | R01                   | 10403        | 12/17/2019       | 12/18/2018      |
| 11   | RF Cable                   | R&S          | R02                   | 10512        | 12/17/2019       | 12/18/2018      |
| 12   | RF Cable                   | R&S          | R01                   | 10454        | 12/17/2019       | 12/18/2018      |
| 13   | RF Cable                   | R&S          | R02                   | 10343        | 12/17/2019       | 12/18/2018      |
| 14   | 6 dB Attenuator            | EMEC         | ATT6000-6-N N         | N/A          | 11/21/2019       | 11/22/2018      |
| 15   | Turn Table                 | UC           | UC3000                | N/A          | N/A              | N/A             |
| 16   | Antenna Mast               | UC           | UC3000                | N/A          | N/A              | N/A             |
| 17   | Measurement Software       | Farad        | EZ-EMC (Ver.ATT-03 A) | N/A          | N/A              | N/A             |
| 18   | Loop antenna               | TESEQ        | HLA6120               | 20129        | 12/17/2019       | 12/18/2018      |

## 6.2. Block diagram of test setup

In 3m Anechoic Chamber Test Setup Diagram for below 1GHz



In 3m Anechoic Chamber Test Setup Diagram for frequency above 1GHz



Note: For harmonic emissions test a appropriate high pass filter was inserted in the input port of AMP.

### 6.3. Limit

#### 6.3.1 FCC 15.205 Restricted frequency band

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

#### 6.3.2 FCC 15.209 Limit

| FREQUENCY<br>MHz | DISTANCE<br>Meters | FIELD STRENGTHS LIMIT                           |          |
|------------------|--------------------|-------------------------------------------------|----------|
|                  |                    | μV/m                                            | dB(μV)/m |
| 30 ~ 88          | 3                  | 100                                             | 40.0     |
| 88 ~ 216         | 3                  | 150                                             | 43.5     |
| 216 ~ 960        | 3                  | 200                                             | 46.0     |
| 960 ~ 1000       | 3                  | 500                                             | 54.0     |
| Above 1000       | 3                  | 74.0 dB(μV)/m (Peak)<br>54.0 dB(μV)/m (Average) |          |

#### 6.3.3 Limit for this EUT

The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10:2013. The specification used was the FCC 15.209, and FCC 15.247 limits.

## 6.4. TEST PROCEDURE

- (1) EUT was placed on a non-metallic table, 80 cm above the ground plane inside a semi-anechoic chamber.
- (2) Setup EUT and assistant system according clause 2.4 and 8.2
- (3) Test antenna was located 3m from the EUT on an adjustable mast. Below pre-scan procedure was first performed in order to find prominent radiated emissions.
  - (a) Change work frequency or channel of device if practicable.
  - (b) Change modulation type of device if practicable.
  - (c) Change power supply range from 85% to 115% of the rated supply voltage
  - (d) Rotated EUT though three orthogonal axes to determine the attitude of EUT arrangement produces highest emissions
- (4) Spectrum frequency from 9MHz to 25GHz (tenth harmonic of fundamental frequency) was investigated, and no any obvious emission were detected from 9KHz to 30MHz and 18GHz to 25GHz, so below final test was performed with frequency range from 30MHz to 18GHz.
- (5) For final emissions measurements at each frequency of interest, the EUT were rotated and the antenna height was varied between 1m and 4m in order to maximize the emission. Measurements in both horizontal and vertical polarities were made and the data was recorded. In order to find the maximum emission, the relative positions of equipments and all of the interface cables were changed according to ANSI C63.10 2013 on Radiated Emission test.
- (6) For emissions from 30MHz to 1GHz, Quasi-Peak values were measured with EMI Receiver and the bandwidth of Receiver is 120 KHz.
- (7) For emissions above 1GHz, both Peak and Average level were measured with Spectrum Analyzer, and the RBW is set at 1MHz, VBW is set at 3MHz for Peak measure, Detector is at PK; RBW is set at 1MHz, VBW is set at 3MHz for Average measure, Detector is at RMS.

## 6.5. TEST RESULT

### Below 30M

|                      |                   |                           |           |
|----------------------|-------------------|---------------------------|-----------|
| <b>EUT:</b>          | Android Tablet PC | <b>Model No.:</b>         | T10       |
| <b>Temperature:</b>  | 24℃               | <b>Relative Humidity:</b> | 55%       |
| <b>Distance:</b>     | 3m                | <b>Test Power:</b>        | 120V/60Hz |
| <b>Polarization:</b> | --                | <b>Test Result:</b>       | Pass      |
| <b>Test Mode:</b>    | Keep TX Mode      | <b>Test By:</b>           | Simba     |

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

#### Note:

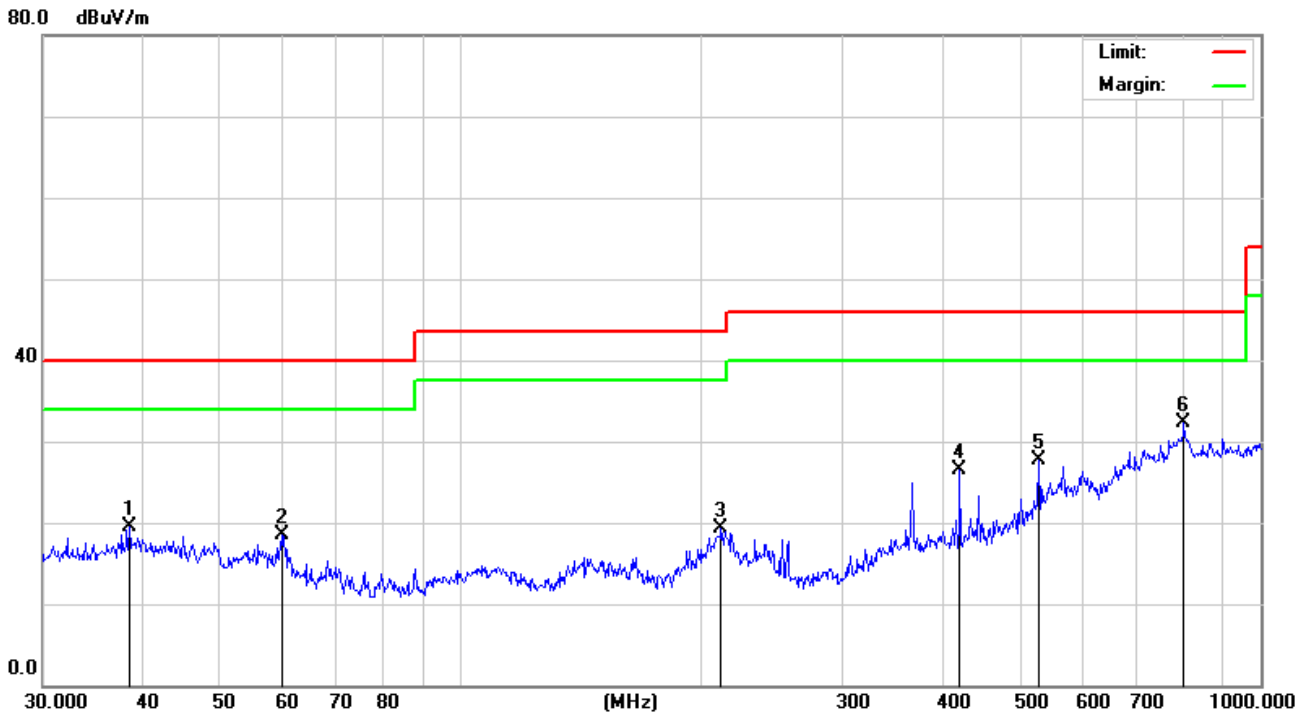
The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

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

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

## Between 30M – 1000 MHz

|               |                            |                    |           |
|---------------|----------------------------|--------------------|-----------|
| EUT:          | Android Tablet PC          | Model No.:         | T10       |
| Temperature:  | 24                         | Relative Humidity: | 55%       |
| Distance:     | 3m                         | Test Power:        | 120V/60Hz |
| Polarization: | Vertical                   | Test Result:       | Pass      |
| Standard:     | (RE)FCC PART 15 class B 3m | Test By:           | Simba     |
| Test Mode:    | Keep TX Mode               |                    |           |



| No. | Mk. | Freq.    | Reading | Correct | Measure- | Limit  | Over   |          |
|-----|-----|----------|---------|---------|----------|--------|--------|----------|
|     |     | MHz      | Level   | Factor  | ment     |        |        |          |
|     |     |          | dBuV    | dB      | dBuV/m   | dBuV/m | dB     | Detector |
| 1   |     | 38.4809  | 23.83   | -4.37   | 19.46    | 40.00  | -20.54 | QP       |
| 2   |     | 59.8588  | 25.92   | -7.41   | 18.51    | 40.00  | -21.49 | QP       |
| 3   |     | 211.5265 | 23.43   | -4.19   | 19.24    | 43.50  | -24.26 | QP       |
| 4   |     | 420.5803 | 30.64   | -4.12   | 26.52    | 46.00  | -19.48 | QP       |
| 5   |     | 528.2458 | 27.41   | 0.32    | 27.73    | 46.00  | -18.27 | QP       |
| 6   | *   | 801.7863 | 24.55   | 7.67    | 32.22    | 46.00  | -13.78 | QP       |

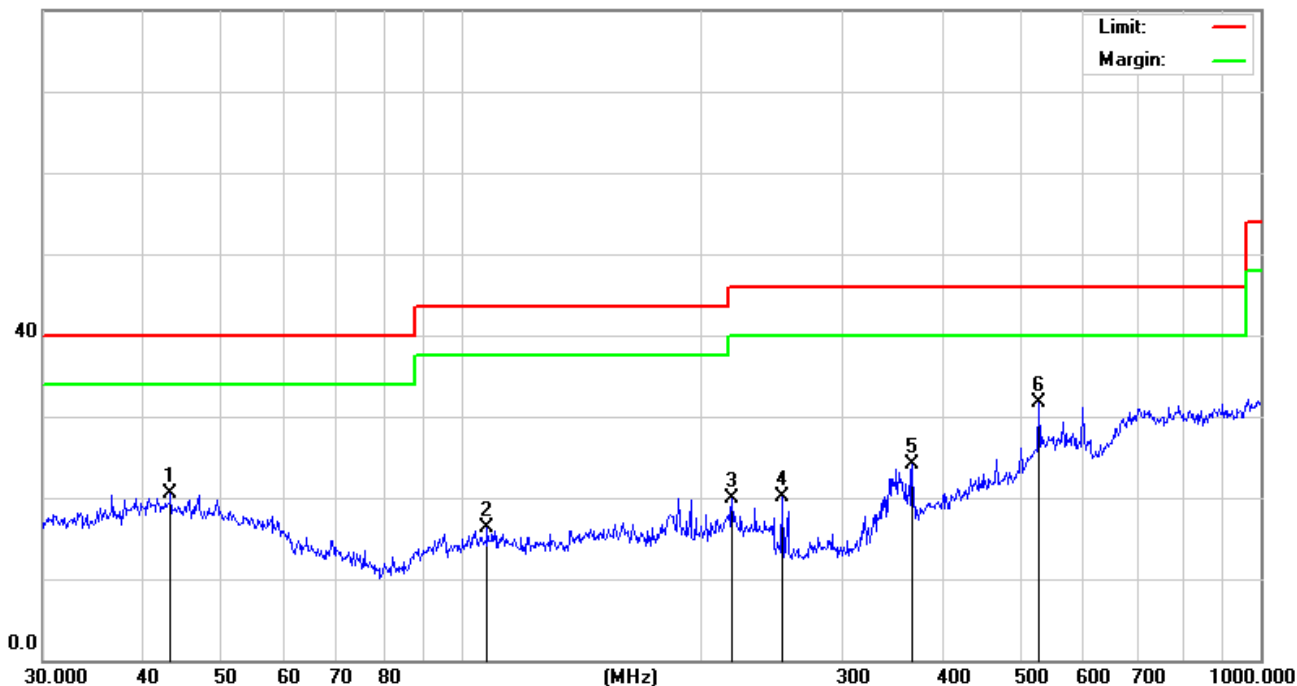
The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit



|                      |                            |                           |           |
|----------------------|----------------------------|---------------------------|-----------|
| <b>EUT:</b>          | Android Tablet PC          | <b>Model No.:</b>         | T10       |
| <b>Temperature:</b>  | 24                         | <b>Relative Humidity:</b> | 55%       |
| <b>Distance:</b>     | 3m                         | <b>Test Power:</b>        | 120V/60Hz |
| <b>Polarization:</b> | Horizontal                 | <b>Test Result:</b>       | Pass      |
| <b>Standard:</b>     | (RE)FCC PART 15 class B 3m | <b>Test By:</b>           | Simba     |
| <b>Test Mode:</b>    | Keep TX Mode               |                           |           |

80.0 dBuV/m



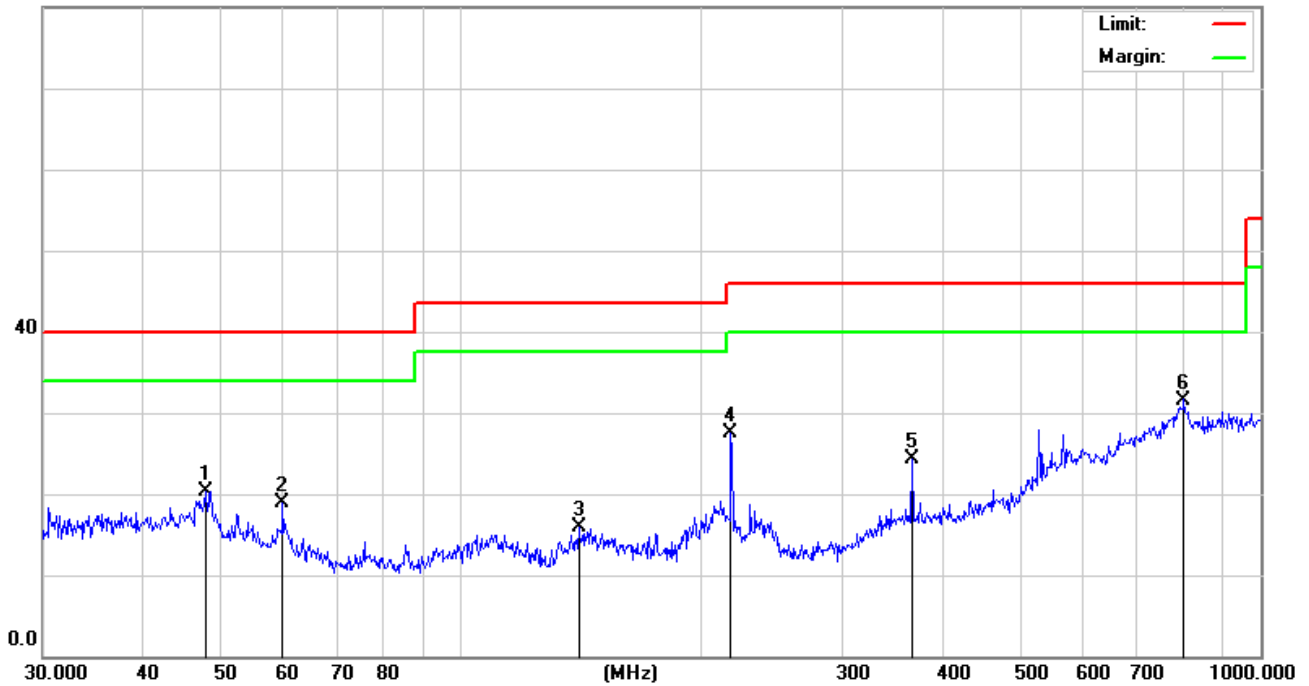
| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 43.3534      | 22.46                    | -2.05                   | 20.41                      | 40.00           | -19.59     | QP       |
| 2   |     | 107.8877     | 23.42                    | -7.11                   | 16.31                      | 43.50           | -27.19     | QP       |
| 3   |     | 218.3085     | 26.80                    | -6.85                   | 19.95                      | 46.00           | -26.05     | QP       |
| 4   |     | 252.0627     | 29.11                    | -8.93                   | 20.18                      | 46.00           | -25.82     | QP       |
| 5   |     | 366.8231     | 30.13                    | -6.04                   | 24.09                      | 46.00           | -21.91     | QP       |
| 6   | *   | 528.2458     | 27.91                    | 3.83                    | 31.74                      | 46.00           | -14.26     | QP       |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (3) Margin = Result - Limit

|               |                            |                    |           |
|---------------|----------------------------|--------------------|-----------|
| EUT:          | Android Tablet PC          | Model No.:         | T7        |
| Temperature:  | 24                         | Relative Humidity: | 55%       |
| Distance:     | 3m                         | Test Power:        | 120V/60Hz |
| Polarization: | Vertical                   | Test Result:       | Pass      |
| Standard:     | (RE)FCC PART 15 class B 3m | Test By:           | Simba     |
| Test Mode:    | Keep TX Mode               |                    |           |

80.0 dBuV/m

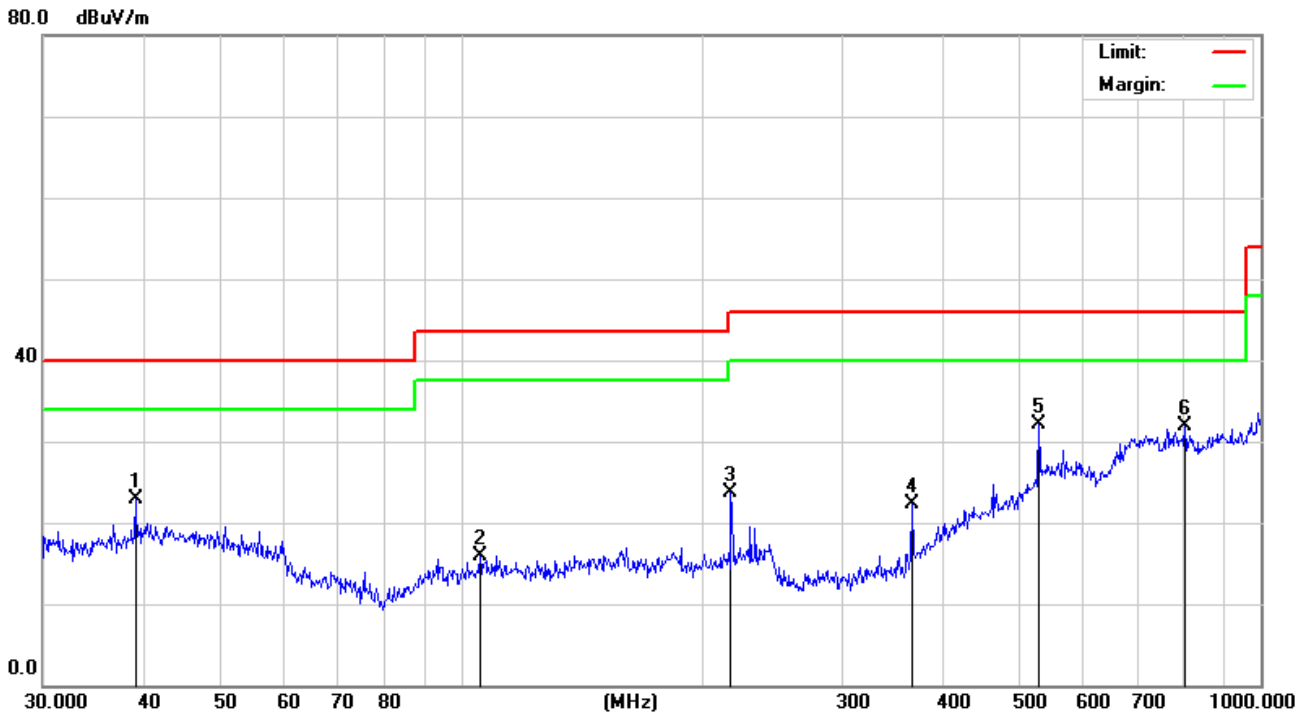


| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1       | 47.9940      | 25.83                    | -5.44                   | 20.39                      | 40.00           | -19.61     | QP       |
| 2       | 59.8588      | 26.28                    | -7.41                   | 18.87                      | 40.00           | -21.13     | QP       |
| 3       | 140.3421     | 23.40                    | -7.57                   | 15.83                      | 43.50           | -27.67     | QP       |
| 4       | 217.5443     | 33.23                    | -5.73                   | 27.50                      | 46.00           | -18.50     | QP       |
| 5       | 366.8231     | 28.46                    | -4.25                   | 24.21                      | 46.00           | -21.79     | QP       |
| 6 *     | 801.7863     | 23.93                    | 7.67                    | 31.60                      | 46.00           | -14.40     | QP       |

The test result is calculated as the following:

- (4) Result = Reading + Correct Factor
- (5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator
- (6) Margin = Result - Limit

|                      |                            |                           |           |
|----------------------|----------------------------|---------------------------|-----------|
| <b>EUT:</b>          | Android Tablet PC          | <b>Model No.:</b>         | T7        |
| <b>Temperature:</b>  | 24                         | <b>Relative Humidity:</b> | 55%       |
| <b>Distance:</b>     | 3m                         | <b>Test Power:</b>        | 120V/60Hz |
| <b>Polarization:</b> | Horizontal                 | <b>Test Result:</b>       | Pass      |
| <b>Standard:</b>     | (RE)FCC PART 15 class B 3m | <b>Test By:</b>           | Simba     |
| <b>Test Mode:</b>    | Keep TX Mode               |                           |           |



| No. | Mk. | Freq.    | Reading Level | Correct Factor | Measurement | Limit  | Over   |          |
|-----|-----|----------|---------------|----------------|-------------|--------|--------|----------|
|     |     | MHz      | dBuV          | dB             | dBuV/m      | dBuV/m | dB     | Detector |
| 1   |     | 39.1616  | 25.24         | -2.27          | 22.97       | 40.00  | -17.03 | QP       |
| 2   |     | 105.6415 | 23.19         | -7.20          | 15.99       | 43.50  | -27.51 | QP       |
| 3   |     | 217.5443 | 30.59         | -6.87          | 23.72       | 46.00  | -22.28 | QP       |
| 4   |     | 366.8231 | 28.25         | -6.04          | 22.21       | 46.00  | -23.79 | QP       |
| 5   | *   | 528.2458 | 28.23         | 3.83           | 32.06       | 46.00  | -13.94 | QP       |
| 6   |     | 804.6028 | 24.70         | 7.20           | 31.90       | 46.00  | -14.10 | QP       |

The test result is calculated as the following:

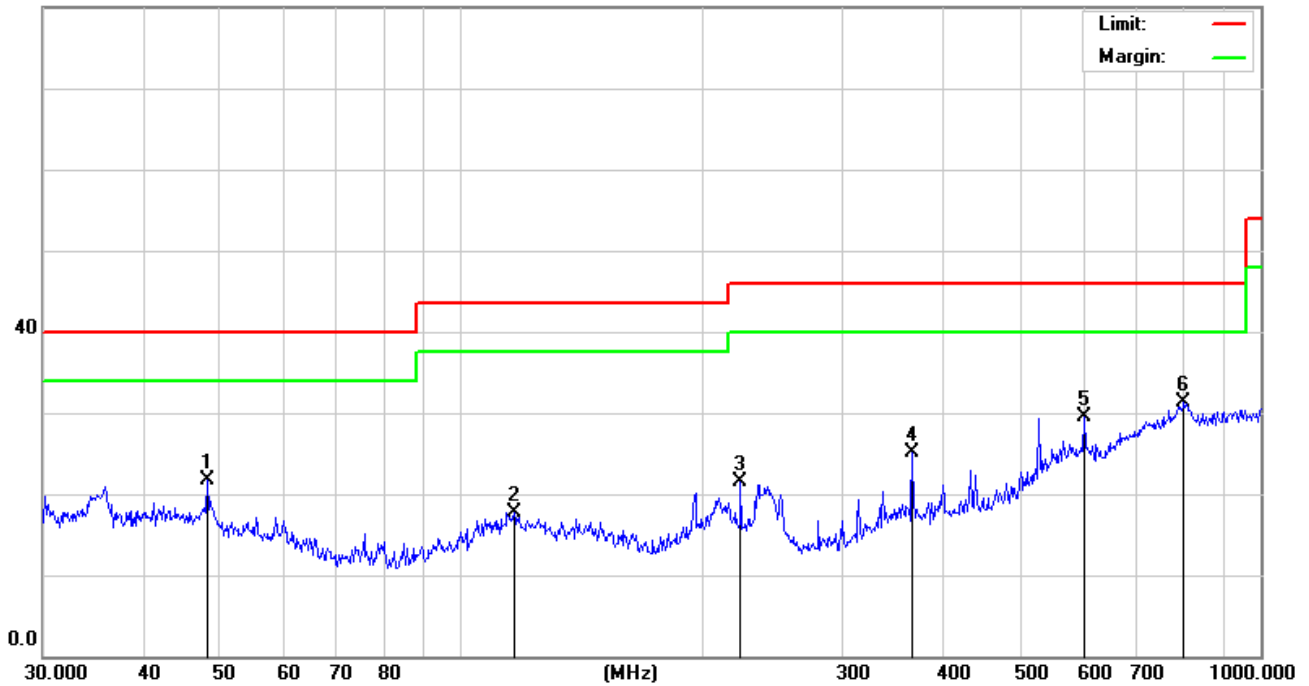
(4) Result = Reading + Correct Factor

(5) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(6) Margin = Result - Limit

|                      |                            |                           |           |
|----------------------|----------------------------|---------------------------|-----------|
| <b>EUT:</b>          | Android Tablet PC          | <b>Model No.:</b>         | T8        |
| <b>Temperature:</b>  | 24                         | <b>Relative Humidity:</b> | 55%       |
| <b>Distance:</b>     | 3m                         | <b>Test Power:</b>        | 120V/60Hz |
| <b>Polarization:</b> | Vertical                   | <b>Test Result:</b>       | Pass      |
| <b>Standard:</b>     | (RE)FCC PART 15 class B 3m | <b>Test By:</b>           | Simba     |
| <b>Test Mode:</b>    | Keep TX Mode               |                           |           |

80.0 dBuV/m



| No. | Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|-----|-----|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1   |     | 48.1626      | 27.15                    | -5.49                   | 21.66                      | 40.00           | -18.34     | QP       |
| 2   |     | 116.5401     | 26.29                    | -8.58                   | 17.71                      | 43.50           | -25.79     | QP       |
| 3   |     | 223.7334     | 28.42                    | -6.97                   | 21.45                      | 46.00           | -24.55     | QP       |
| 4   |     | 366.8231     | 29.44                    | -4.25                   | 25.19                      | 46.00           | -20.81     | QP       |
| 5   |     | 601.4265     | 26.23                    | 3.20                    | 29.43                      | 46.00           | -16.57     | QP       |
| 6   | *   | 801.7863     | 23.60                    | 7.67                    | 31.27                      | 46.00           | -14.73     | QP       |

The test result is calculated as the following:

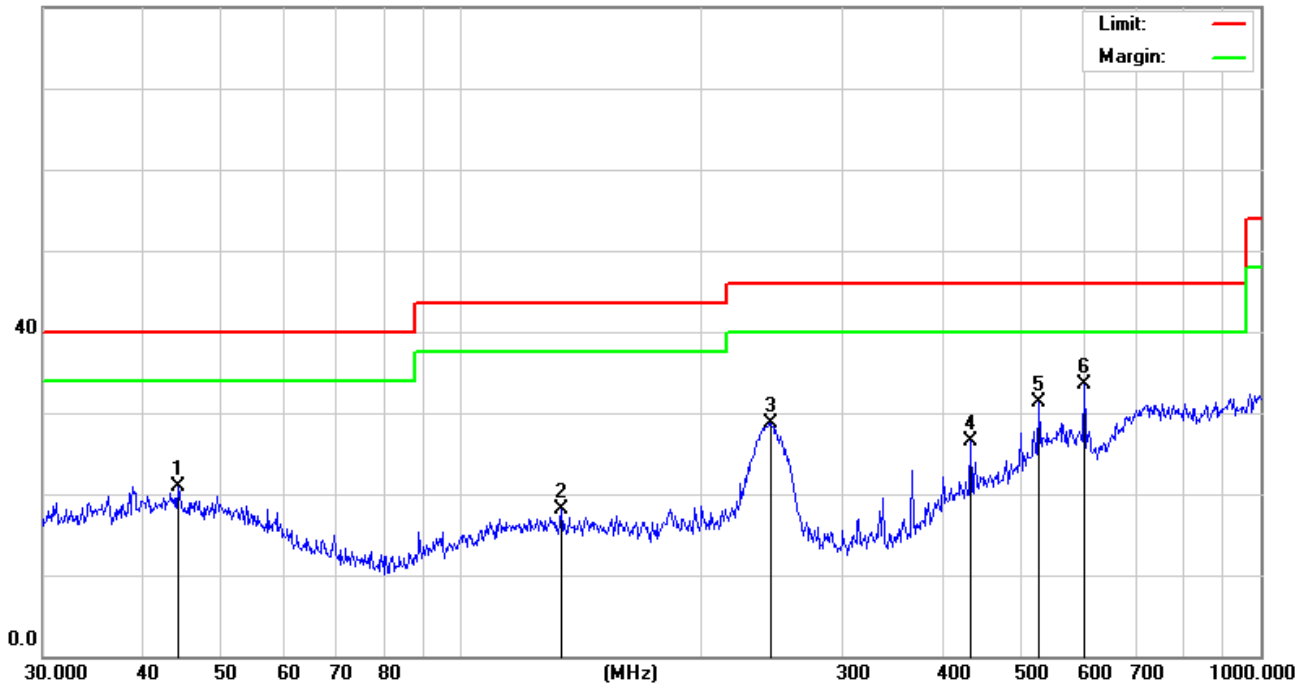
(7) Result = Reading + Correct Factor

(8) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(9) Margin = Result - Limit

|                      |                            |                           |           |
|----------------------|----------------------------|---------------------------|-----------|
| <b>EUT:</b>          | Android Tablet PC          | <b>Model No.:</b>         | T8        |
| <b>Temperature:</b>  | 24                         | <b>Relative Humidity:</b> | 55%       |
| <b>Distance:</b>     | 3m                         | <b>Test Power:</b>        | 120V/60Hz |
| <b>Polarization:</b> | Horizontal                 | <b>Test Result:</b>       | Pass      |
| <b>Standard:</b>     | (RE)FCC PART 15 class B 3m | <b>Test By:</b>           | Simba     |
| <b>Test Mode:</b>    | Keep TX Mode               |                           |           |

80.0 dBuV/m



| No. Mk. | Freq.<br>MHz | Reading<br>Level<br>dBuV | Correct<br>Factor<br>dB | Measure-<br>ment<br>dBuV/m | Limit<br>dBuV/m | Over<br>dB | Detector |
|---------|--------------|--------------------------|-------------------------|----------------------------|-----------------|------------|----------|
| 1       | 44.2751      | 23.16                    | -2.19                   | 20.97                      | 40.00           | -19.03     | QP       |
| 2       | 133.6187     | 25.92                    | -7.75                   | 18.17                      | 43.50           | -25.33     | QP       |
| 3       | 244.2321     | 35.24                    | -6.49                   | 28.75                      | 46.00           | -17.25     | QP       |
| 4       | 434.0650     | 27.54                    | -0.95                   | 26.59                      | 46.00           | -19.41     | QP       |
| 5       | 528.2458     | 27.51                    | 3.83                    | 31.34                      | 46.00           | -14.66     | QP       |
| 6 *     | 601.4265     | 29.17                    | 4.35                    | 33.52                      | 46.00           | -12.48     | QP       |

The test result is calculated as the following:

(7) Result = Reading + Correct Factor

(8) Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain + Attenuator

(9) Margin = Result - Limit

### Between 1000M – 25000 MHz

|                     |                                           |                         |           |
|---------------------|-------------------------------------------|-------------------------|-----------|
| <b>Test Site</b>    | : 3m Chamber                              |                         |           |
| <b>EUT</b>          | : Android Tablet PC                       | <b>Tested By</b>        | : Smile   |
| <b>Power Supply</b> | : 3.7 Vdc                                 | <b>Model Number</b>     | : T10     |
| <b>Condition</b>    | : Temp:24.5'C,Humi:55%,<br>Press:100.1kPa | <b>Test Mode</b>        | : Tx mode |
| <b>Memo</b>         | : 802.11B                                 | <b>Antenna/Distance</b> | : 3m      |

| Frequency             | Receiver       |                     | Rx Antenna  |             | Corrected Amplitude | FCC 15.247     |             |
|-----------------------|----------------|---------------------|-------------|-------------|---------------------|----------------|-------------|
| (MHz)                 | Reading (dBμV) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB) | (dBμV/m)            | Limit (dBμV/m) | Margin (dB) |
| Low Channel (2412)    |                |                     |             |             |                     |                |             |
| 2390                  | 43.27          | PK                  | H           | -5.79       | 37.48               | 74             | -36.52      |
| 2390                  | 31.28          | AV                  | H           | -5.79       | 25.49               | 54             | -28.51      |
| 2390                  | 43.51          | PK                  | V           | -5.79       | 37.72               | 74             | -36.28      |
| 2390                  | 31.24          | AV                  | V           | -5.79       | 25.45               | 54             | -28.55      |
| 4824                  | 42.88          | PK                  | H           | 5.08        | 47.96               | 74             | -26.04      |
| 4824                  | 30.82          | AV                  | H           | 5.08        | 35.90               | 54             | -18.10      |
| 4824                  | 43.72          | PK                  | V           | 5.08        | 48.80               | 74             | -25.20      |
| 4824                  | 31.05          | AV                  | V           | 5.08        | 36.13               | 54             | -17.87      |
| Middle Channel (2437) |                |                     |             |             |                     |                |             |
| 4874                  | 43.06          | PK                  | H           | 5.73        | 48.79               | 74             | -25.21      |
| 4874                  | 31.09          | AV                  | H           | 5.73        | 36.82               | 54             | -17.18      |
| 4874                  | 43.25          | PK                  | V           | 5.73        | 48.98               | 74             | -25.02      |
| 4874                  | 31.27          | AV                  | V           | 5.73        | 37.00               | 54             | -17.00      |
| High Channel (2462)   |                |                     |             |             |                     |                |             |
| 2483.5                | 41.27          | PK                  | H           | -4.98       | 36.29               | 74             | -37.71      |
| 2483.5                | 31.31          | AV                  | H           | -4.98       | 26.33               | 54             | -27.67      |
| 2483.5                | 42.79          | PK                  | V           | -4.98       | 37.81               | 74             | -36.19      |
| 2483.5                | 31.12          | AV                  | V           | -4.98       | 26.14               | 54             | -27.86      |
| 4924                  | 41.17          | PK                  | H           | 5.18        | 46.35               | 74             | -27.65      |
| 4924                  | 31.33          | AV                  | H           | 5.18        | 36.51               | 54             | -17.49      |
| 4924                  | 41.81          | PK                  | V           | 5.18        | 46.99               | 74             | -27.01      |
| 4924                  | 32.27          | AV                  | V           | 5.18        | 37.45               | 54             | -16.55      |

The test result is calculated as the following:

- (1) Corrected Amplitude = Read Level + Antenna Factor + Cable loss - Amplifier Gain
- (2) Margin = Corrected Amplitude - Limit

|                     |                                           |                         |           |
|---------------------|-------------------------------------------|-------------------------|-----------|
| <b>Test Site</b>    | : 3m Chamber                              |                         |           |
| <b>EUT</b>          | : Android Tablet PC                       | <b>Tested By</b>        | : Smile   |
| <b>Power Supply</b> | : 3.7 Vdc                                 | <b>Model Number</b>     | : T10     |
| <b>Condition</b>    | : Temp:24.5'C,Humi:55%,<br>Press:100.1kPa | <b>Test Mode</b>        | : Tx mode |
| <b>Memo</b>         | : 802.11G                                 | <b>Antenna/Distance</b> | : 3m      |

| Frequency             | Receiver       |                     | Rx Antenna  |             | Corrected Amplitude | FCC 15.247     |             |
|-----------------------|----------------|---------------------|-------------|-------------|---------------------|----------------|-------------|
| (MHz)                 | Reading (dBμV) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB) | (dBμV/m)            | Limit (dBμV/m) | Margin (dB) |
| Low Channel (2412)    |                |                     |             |             |                     |                |             |
| 2390                  | 43.80          | PK                  | H           | -5.79       | 38.01               | 74             | -35.99      |
| 2390                  | 31.45          | AV                  | H           | -5.79       | 25.66               | 54             | -28.34      |
| 2390                  | 43.71          | PK                  | V           | -5.79       | 37.92               | 74             | -36.08      |
| 2390                  | 32.15          | AV                  | V           | -5.79       | 26.36               | 54             | -27.64      |
| 4824                  | 43.14          | PK                  | H           | 5.08        | 48.22               | 74             | -25.78      |
| 4824                  | 31.50          | AV                  | H           | 5.08        | 36.58               | 54             | -17.42      |
| 4824                  | 43.73          | PK                  | V           | 5.08        | 48.81               | 74             | -25.19      |
| 4824                  | 31.31          | AV                  | V           | 5.08        | 36.39               | 54             | -17.61      |
| Middle Channel (2437) |                |                     |             |             |                     |                |             |
| 4874                  | 43.42          | PK                  | H           | 5.73        | 49.15               | 74             | -24.85      |
| 4874                  | 31.96          | AV                  | H           | 5.73        | 37.69               | 54             | -16.31      |
| 4874                  | 43.28          | PK                  | V           | 5.73        | 49.01               | 74             | -24.99      |
| 4874                  | 31.37          | AV                  | V           | 5.73        | 37.10               | 54             | -16.90      |
| High Channel (2462)   |                |                     |             |             |                     |                |             |
| 2483.5                | 41.31          | PK                  | H           | -4.98       | 36.33               | 74             | -37.67      |
| 2483.5                | 31.73          | AV                  | H           | -4.98       | 26.75               | 54             | -27.25      |
| 2483.5                | 42.80          | PK                  | V           | -4.98       | 37.82               | 74             | -36.18      |
| 2483.5                | 31.36          | AV                  | V           | -4.98       | 26.38               | 54             | -27.62      |
| 4924                  | 41.43          | PK                  | H           | 5.18        | 46.61               | 74             | -27.39      |
| 4924                  | 31.49          | AV                  | H           | 5.18        | 36.67               | 54             | -17.33      |
| 4924                  | 41.80          | PK                  | V           | 5.18        | 46.98               | 74             | -27.02      |
| 4924                  | 32.37          | AV                  | V           | 5.18        | 37.55               | 54             | -16.45      |

The test result is calculated as the following:

- (1) Corrected Amplitude = Read Level + Antenna Factor + Cable loss - Amplifier Gain
- (2) Margin= Corrected Amplitude-Limit

|                     |                                           |                         |           |
|---------------------|-------------------------------------------|-------------------------|-----------|
| <b>Test Site</b>    | : 3m Chamber                              |                         |           |
| <b>EUT</b>          | : Android Tablet PC                       | <b>Tested By</b>        | : Smile   |
| <b>Power Supply</b> | : 3.7 Vdc                                 | <b>Model Number</b>     | : T10     |
| <b>Condition</b>    | : Temp:24.5'C,Humi:55%,<br>Press:100.1kPa | <b>Test Mode</b>        | : Tx mode |
| <b>Memo</b>         | : 802.11N20                               | <b>Antenna/Distance</b> | : 3m      |

| Frequency             | Receiver       |                     | Rx Antenna  |             | Corrected Amplitude | FCC 15.247     |             |
|-----------------------|----------------|---------------------|-------------|-------------|---------------------|----------------|-------------|
| (MHz)                 | Reading (dBμV) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB) | (dBμV/m)            | Limit (dBμV/m) | Margin (dB) |
| Low Channel (2412)    |                |                     |             |             |                     |                |             |
| 2390                  | 42.79          | PK                  | H           | -5.79       | 37.00               | 74             | -37.00      |
| 2390                  | 32.09          | AV                  | H           | -5.79       | 26.30               | 54             | -27.70      |
| 2390                  | 43.23          | PK                  | V           | -5.79       | 37.44               | 74             | -36.56      |
| 2390                  | 32.68          | AV                  | V           | -5.79       | 26.89               | 54             | -27.11      |
| 4824                  | 43.42          | PK                  | H           | 5.08        | 48.50               | 74             | -25.50      |
| 4824                  | 31.29          | AV                  | H           | 5.08        | 36.37               | 54             | -17.63      |
| 4824                  | 42.86          | PK                  | V           | 5.08        | 47.94               | 74             | -26.06      |
| 4824                  | 31.29          | AV                  | V           | 5.08        | 36.37               | 54             | -17.63      |
| Middle Channel (2437) |                |                     |             |             |                     |                |             |
| 4874                  | 42.75          | PK                  | H           | 5.73        | 48.48               | 74             | -25.52      |
| 4874                  | 31.96          | AV                  | H           | 5.73        | 37.69               | 54             | -16.31      |
| 4874                  | 43.27          | PK                  | V           | 5.73        | 49.00               | 74             | -25.00      |
| 4874                  | 31.02          | AV                  | V           | 5.73        | 36.75               | 54             | -17.25      |
| High Channel (2462)   |                |                     |             |             |                     |                |             |
| 2483.5                | 41.89          | PK                  | H           | -4.98       | 36.91               | 74             | -37.09      |
| 2483.5                | 31.72          | AV                  | H           | -4.98       | 26.74               | 54             | -27.26      |
| 2483.5                | 42.34          | PK                  | V           | -4.98       | 37.36               | 74             | -36.64      |
| 2483.5                | 30.81          | AV                  | V           | -4.98       | 25.83               | 54             | -28.17      |
| 4924                  | 41.29          | PK                  | H           | 5.18        | 46.47               | 74             | -27.53      |
| 4924                  | 31.08          | AV                  | H           | 5.18        | 36.26               | 54             | -17.74      |
| 4924                  | 41.28          | PK                  | V           | 5.18        | 46.46               | 74             | -27.54      |
| 4924                  | 32.13          | AV                  | V           | 5.18        | 37.31               | 54             | -16.69      |

The test result is calculated as the following:

- (1) Corrected Amplitude = Read Level + Antenna Factor + Cable loss - Amplifier Gain
- (2) Margin= Corrected Amplitude-Limit



|                     |                                           |                         |           |
|---------------------|-------------------------------------------|-------------------------|-----------|
| <b>Test Site</b>    | : 3m Chamber                              |                         |           |
| <b>EUT</b>          | : Android Tablet PC                       | <b>Tested By</b>        | : Smile   |
| <b>Power Supply</b> | : 3.7 Vdc                                 | <b>Model Number</b>     | : T10     |
| <b>Condition</b>    | : Temp:24.5'C,Humi:55%,<br>Press:100.1kPa | <b>Test Mode</b>        | : Tx mode |
| <b>Memo</b>         | : 802.11N40                               | <b>Antenna/Distance</b> | : 3m      |

| Frequency             | Receiver       |                     | Rx Antenna  |             | Corrected Amplitude | FCC 15.247     |             |
|-----------------------|----------------|---------------------|-------------|-------------|---------------------|----------------|-------------|
| (MHz)                 | Reading (dBμV) | Detector (PK/QP/AV) | Polar (H/V) | Factor (dB) | (dBμV/m)            | Limit (dBμV/m) | Margin (dB) |
| Low Channel (2422)    |                |                     |             |             |                     |                |             |
| 2390                  | 43.38          | PK                  | H           | -5.79       | 37.59               | 74             | -36.41      |
| 2390                  | 32.05          | AV                  | H           | -5.79       | 26.26               | 54             | -27.74      |
| 2390                  | 44.02          | PK                  | V           | -5.79       | 38.23               | 74             | -35.77      |
| 2390                  | 32.58          | AV                  | V           | -5.79       | 26.79               | 54             | -27.21      |
| 4844                  | 42.96          | PK                  | H           | 5.08        | 48.04               | 74             | -25.96      |
| 4844                  | 31.29          | AV                  | H           | 5.08        | 36.37               | 54             | -17.63      |
| 4844                  | 41.83          | PK                  | V           | 5.08        | 46.91               | 74             | -27.09      |
| 4844                  | 31.26          | AV                  | V           | 5.08        | 36.34               | 54             | -17.66      |
| Middle Channel (2437) |                |                     |             |             |                     |                |             |
| 4874                  | 42.68          | PK                  | H           | 5.73        | 48.41               | 74             | -25.59      |
| 4874                  | 31.08          | AV                  | H           | 5.73        | 36.81               | 54             | -17.19      |
| 4874                  | 43.76          | PK                  | V           | 5.73        | 49.49               | 74             | -24.51      |
| 4874                  | 31.06          | AV                  | V           | 5.73        | 36.79               | 54             | -17.21      |
| High Channel (2452)   |                |                     |             |             |                     |                |             |
| 2483.5                | 41.61          | PK                  | H           | -4.98       | 36.63               | 74             | -37.37      |
| 2483.5                | 31.35          | AV                  | H           | -4.98       | 26.37               | 54             | -27.63      |
| 2483.5                | 42.44          | PK                  | V           | -4.98       | 37.46               | 74             | -36.54      |
| 2483.5                | 30.96          | AV                  | V           | -4.98       | 25.98               | 54             | -28.02      |
| 4904                  | 41.74          | PK                  | H           | 5.18        | 46.92               | 74             | -27.08      |
| 4904                  | 30.97          | AV                  | H           | 5.18        | 36.15               | 54             | -17.85      |
| 4904                  | 41.16          | PK                  | V           | 5.18        | 46.34               | 74             | -27.66      |
| 4904                  | 31.17          | AV                  | V           | 5.18        | 36.35               | 54             | -17.65      |

The test result is calculated as the following:

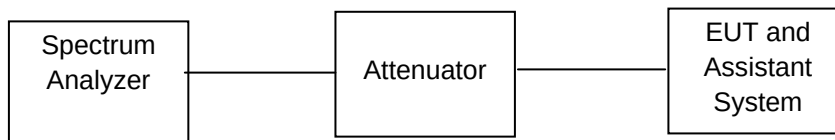
- (1) Corrected Amplitude = Read Level + Antenna Factor + Cable loss - Amplifier Gain
- (2) Margin= Corrected Amplitude-Limit

## 7. 100 kHz Bandwidth of Frequency Band Edge

### 7.1. Test equipment

| Item | Equipment         | Manufacturer  | Model No.   | Serial No. | Calibrated until | Calibrated Date |
|------|-------------------|---------------|-------------|------------|------------------|-----------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 05/25/2020       | 05/26/2019      |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | 12/17/2019       | 12/18/2018      |
| 3    | RF Cable          | Micable       | C10-01-01-1 | 100309     | 12/17/2019       | 12/18/2018      |
| 4    | Spectrum analyzer | R&S           | FSV40       | 101470     | 06/28/2019       | 06/29/2018      |

### 7.2. Block diagram of test setup



### 7.3. Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

#### 7.4. Test Procedure

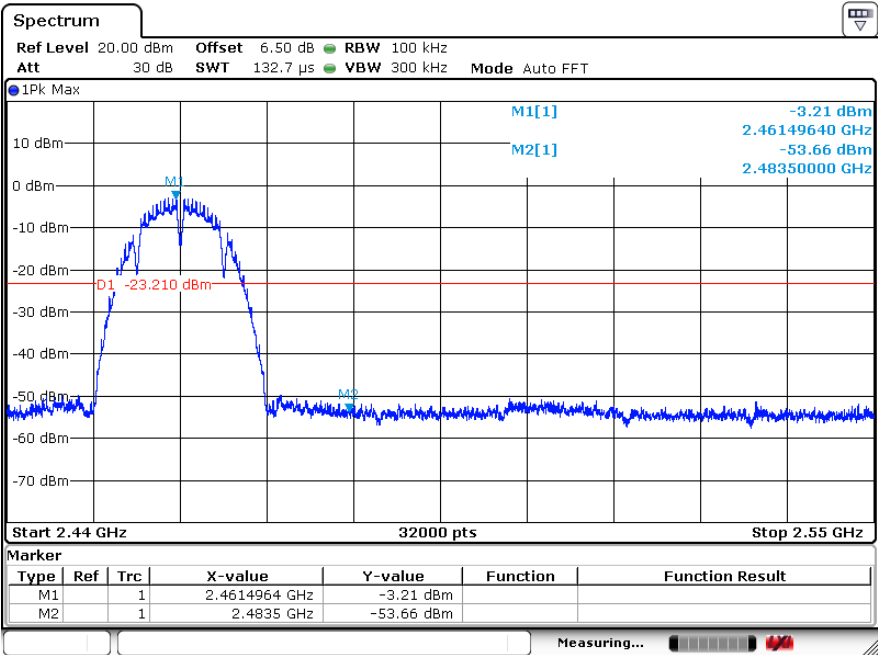
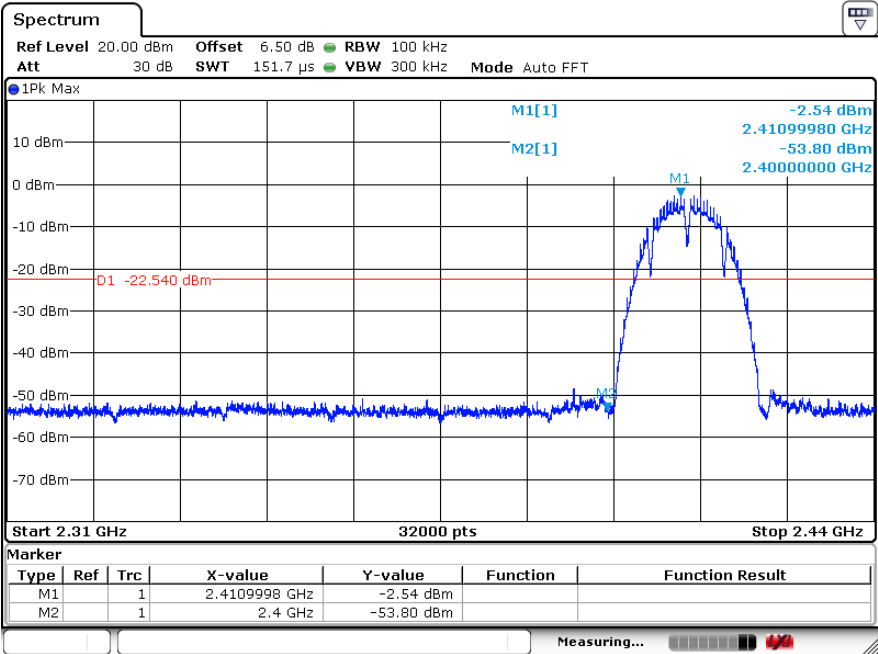
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Remove the antenna from the EUT and then connect to a low loss RF cable from the antenna port to a EMI test receiver, then turn on the EUT and make it operate in transmitting mode. Then set it to Low Channel and High Channel within its operating range, and make sure the instrument is operated in its linear range.
3. Set both RBW and VBW of spectrum analyzer to 100 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
5. Repeat above procedures until all measured frequencies were complete.

#### 7.5. Test result

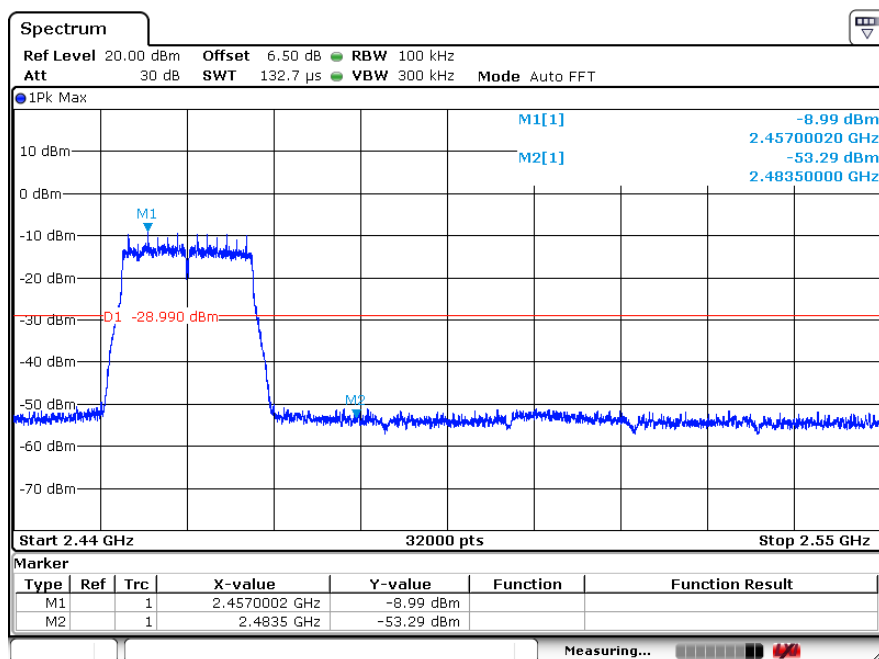
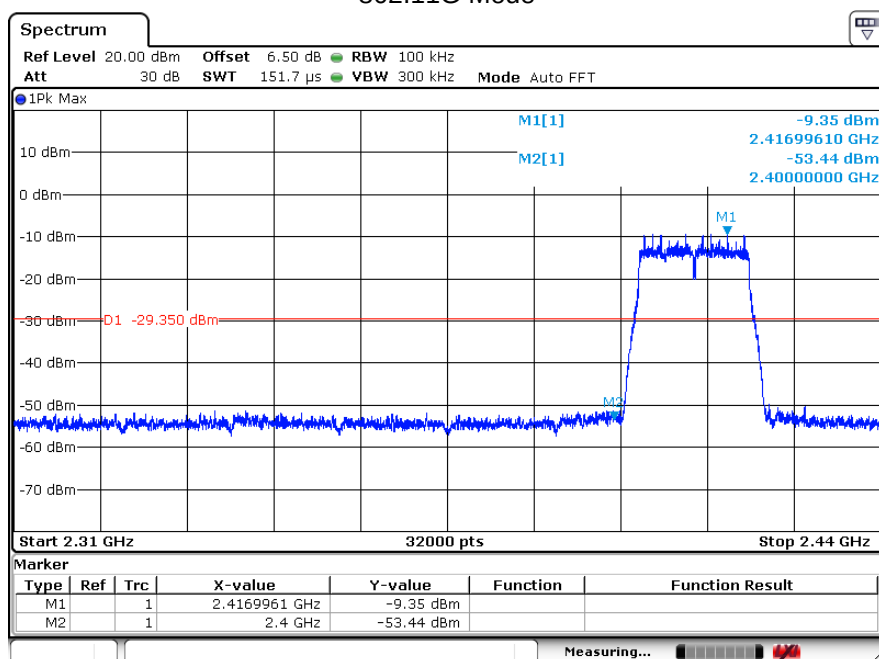
| Frequency Band      | Delta Peak to band emission (dBc) | >Limit (dBc) | Result |
|---------------------|-----------------------------------|--------------|--------|
| IEEE 802.11B Mdoe   |                                   |              |        |
| 2400                | 51.26                             | 20           | Pass   |
| 2483.5              | 50.45                             | 20           | Pass   |
| IEEE 802.11G Mdoe   |                                   |              |        |
| 2400                | 44.09                             | 20           | Pass   |
| 2483.5              | 44.30                             | 20           | Pass   |
| IEEE 802.11N20 Mdoe |                                   |              |        |
| 2400                | 44.04                             | 20           | Pass   |
| 2483.5              | 46.05                             | 20           | Pass   |
| IEEE 802.11N40 Mdoe |                                   |              |        |
| 2400                | 40.68                             | 20           | Pass   |
| 2483.5              | 42.96                             | 20           | Pass   |



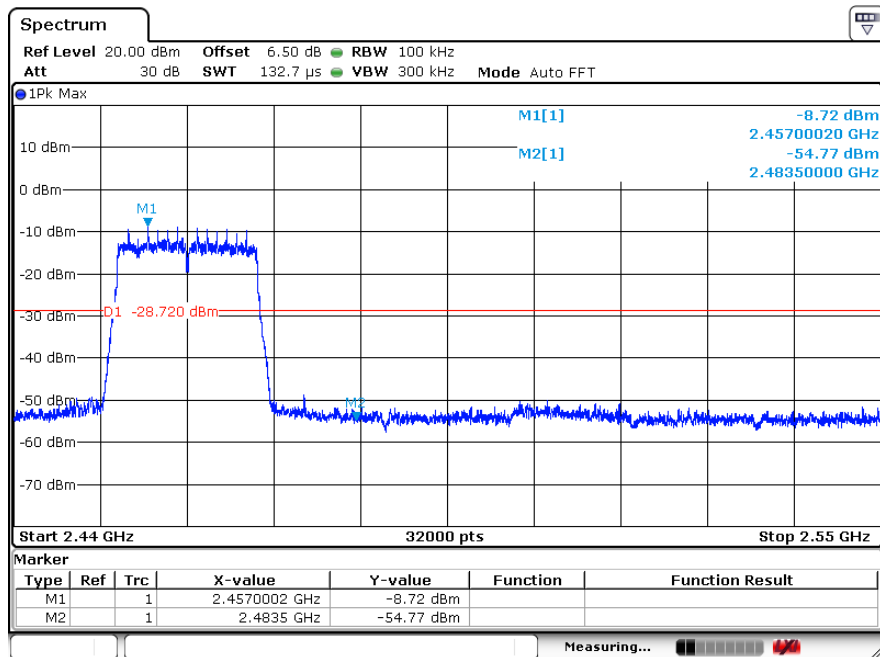
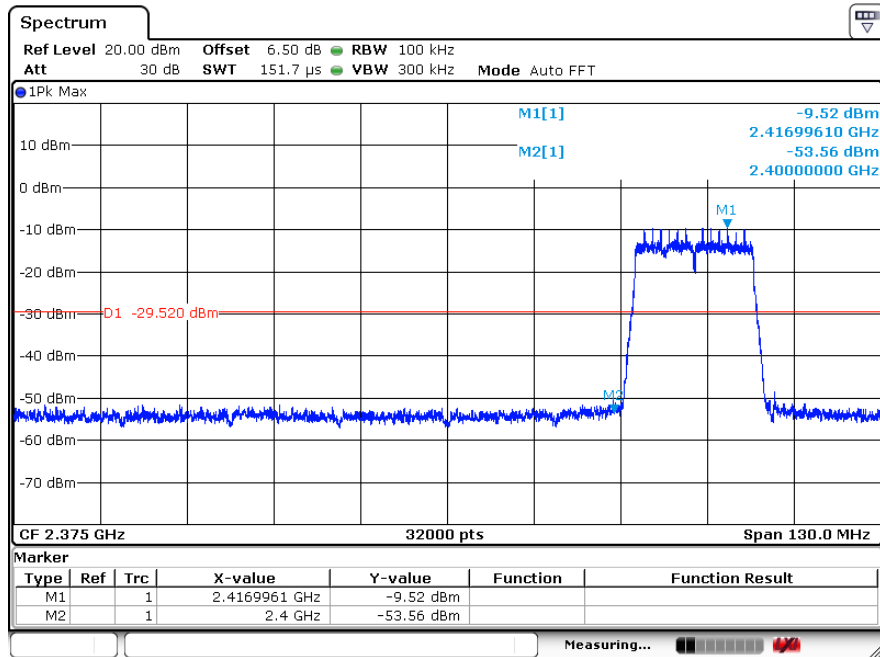
802.11B Mode



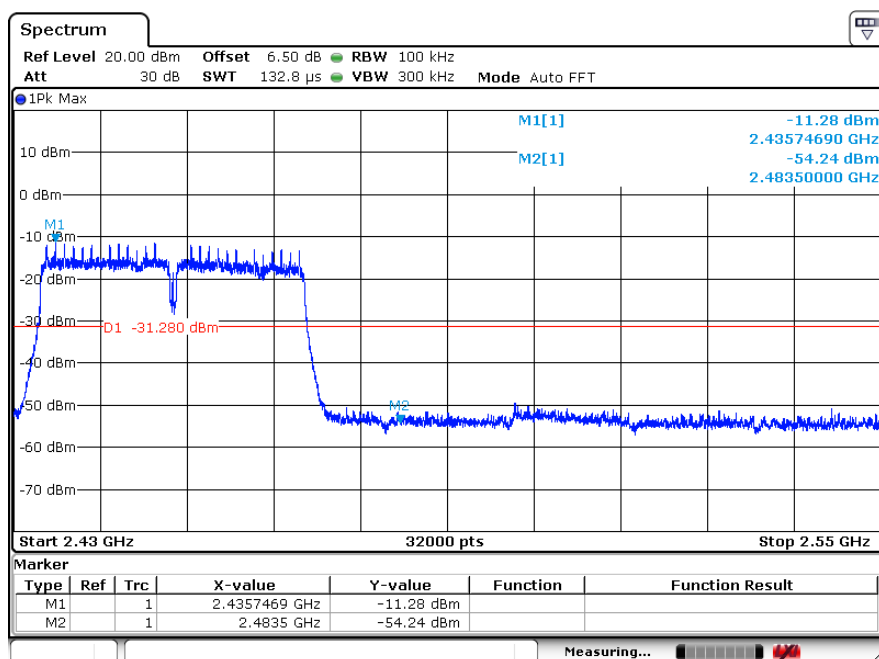
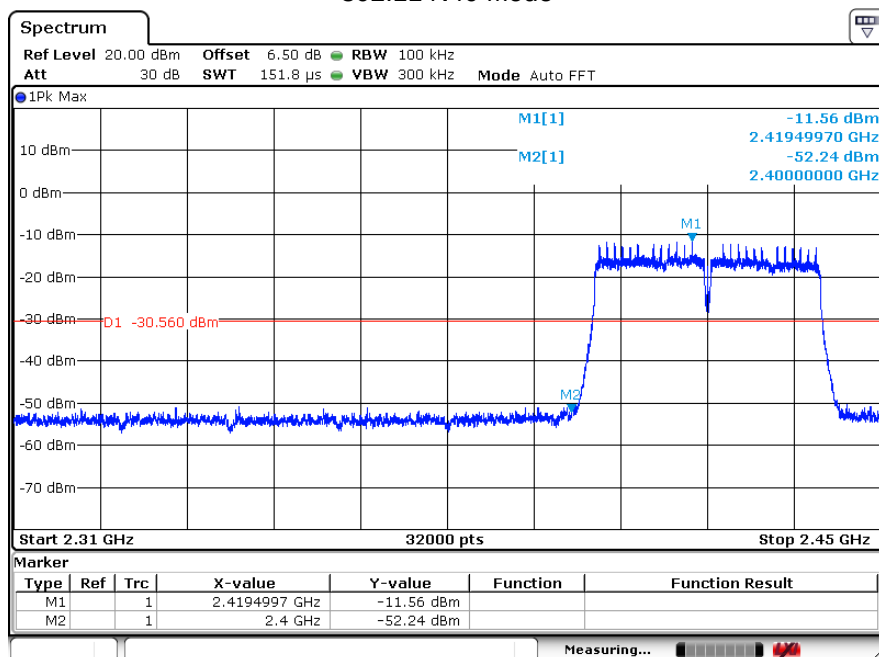
## 802.11G Mode



## 802.11 N20 Mode



## 802.11 N40 Mode



## 8. Conducted Spurious Emissions

### 8.1. Test Equipment

| Item | Equipment         | Manufacturer  | Model No.   | Serial No. | Calibrated until | Calibrated Date |
|------|-------------------|---------------|-------------|------------|------------------|-----------------|
| 1    | Spectrum analyzer | KEYSIGHT      | N9010A      | MY55150427 | 05/26/2020       | 05/27/2019      |
| 2    | Attenuator        | Mini-Circuits | BW-S10W2    | 101109     | 12/17/2019       | 12/18/2018      |
| 3    | RF Cable          | Micable       | C10-01-01-1 | 100309     | 12/17/2019       | 12/18/2018      |
| 4    | Spectrum analyzer | R&S           | FSV40       | 101470     | 06/28/2019       | 06/29/2018      |

### 8.2. Limit

In any 100kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power.

### 8.3. Test Procedure

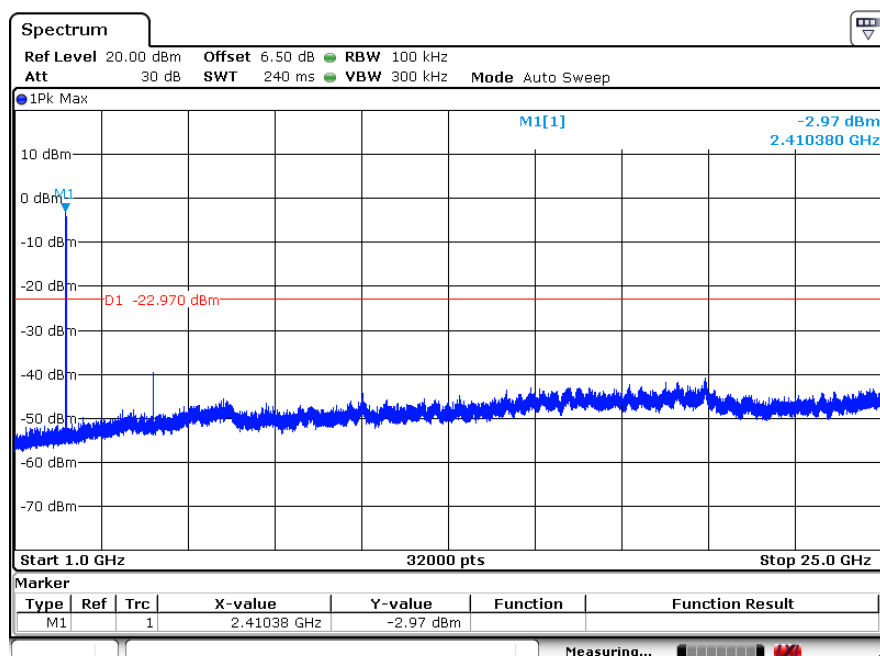
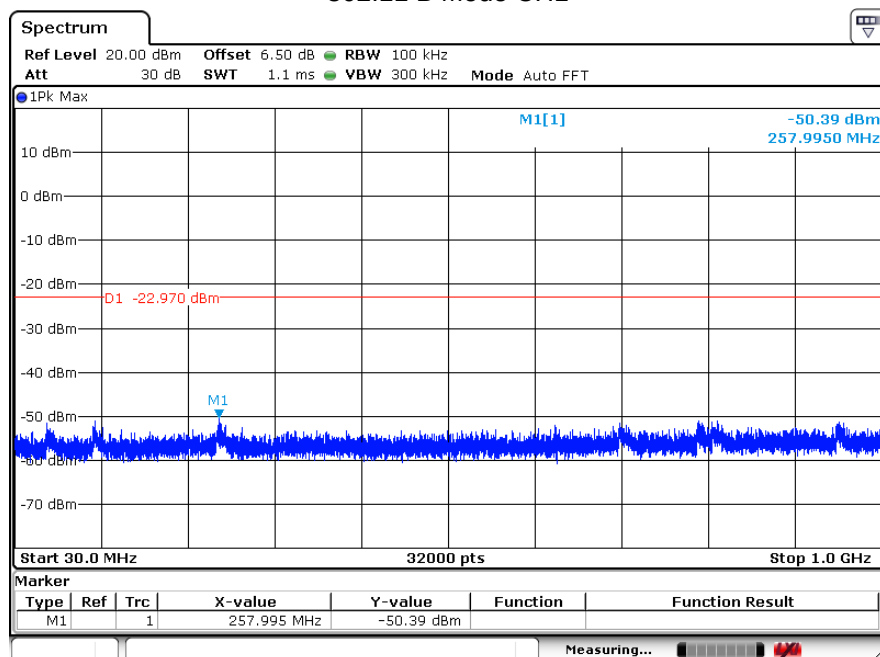
The transmitter output was connected to a spectrum analyzer, The resolution bandwidth is set to 100 kHz, The video bandwidth is set to 300 kHz and measure all the emissions detected.



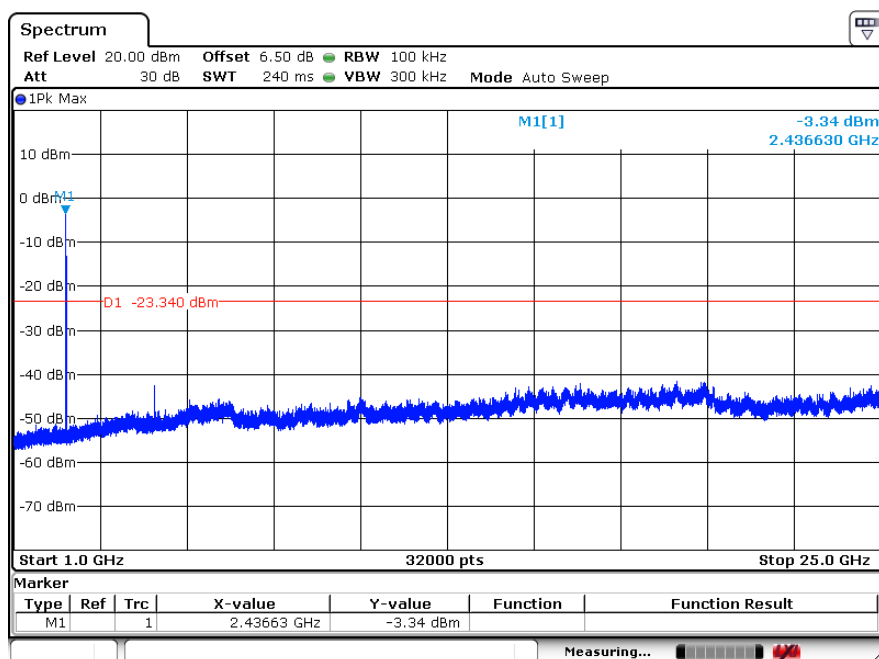
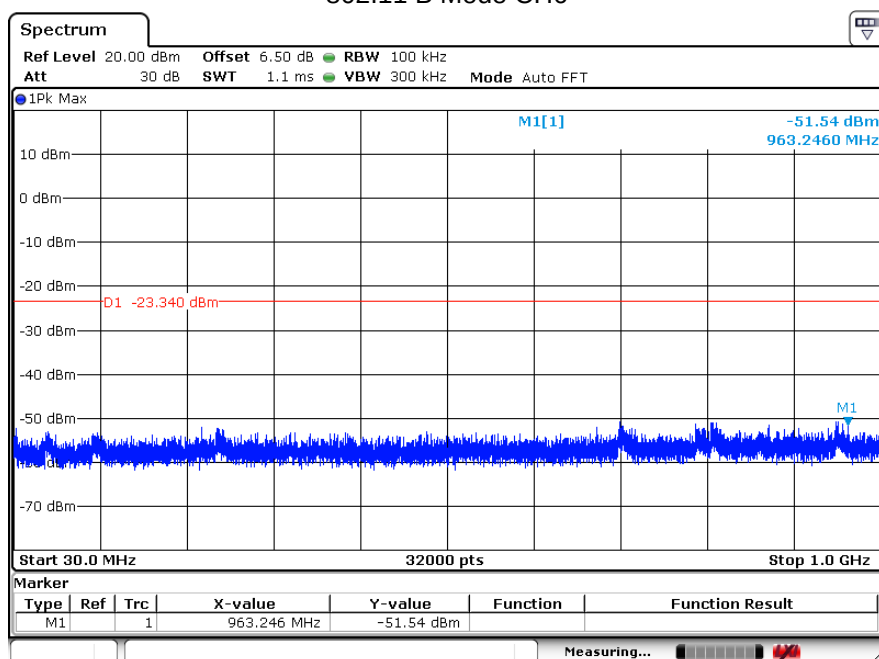
## 8.4. Test result

PASS (See below detailed test result.)

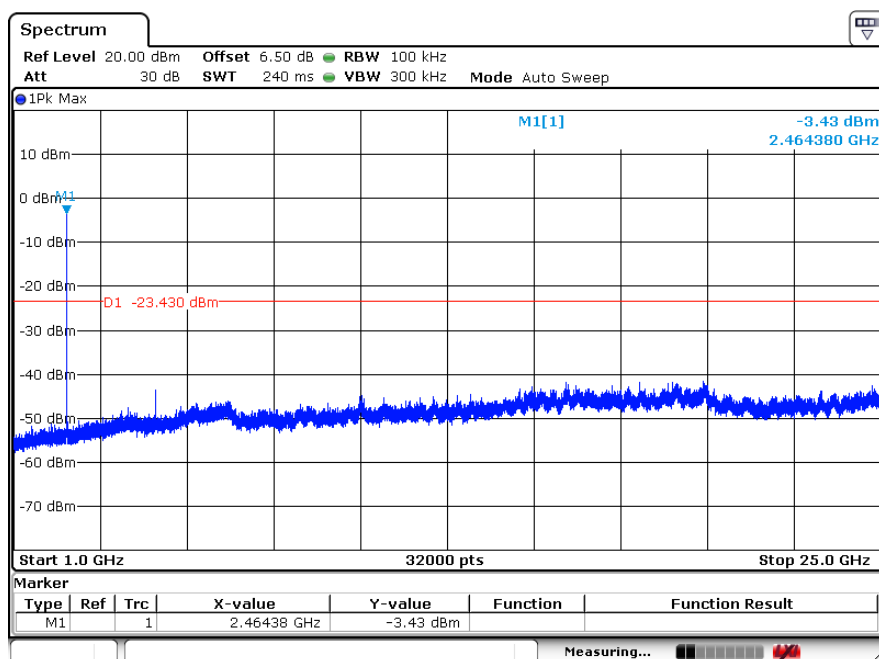
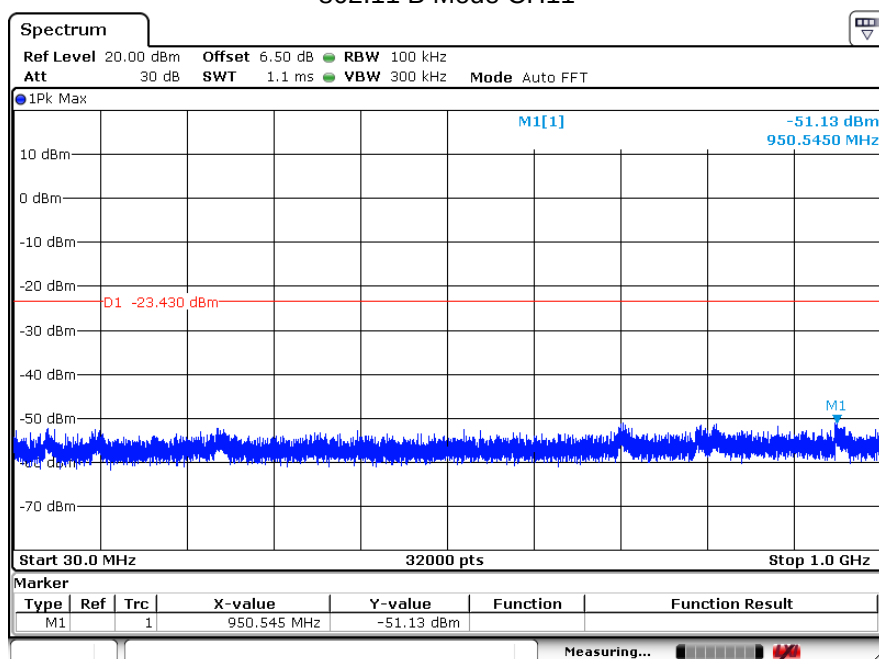
802.11 B Mode CH1



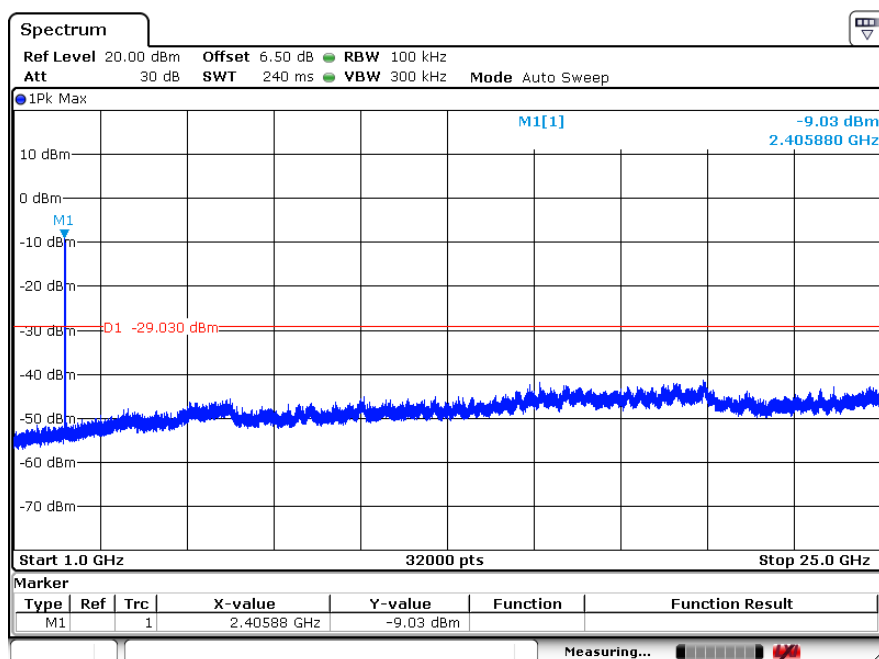
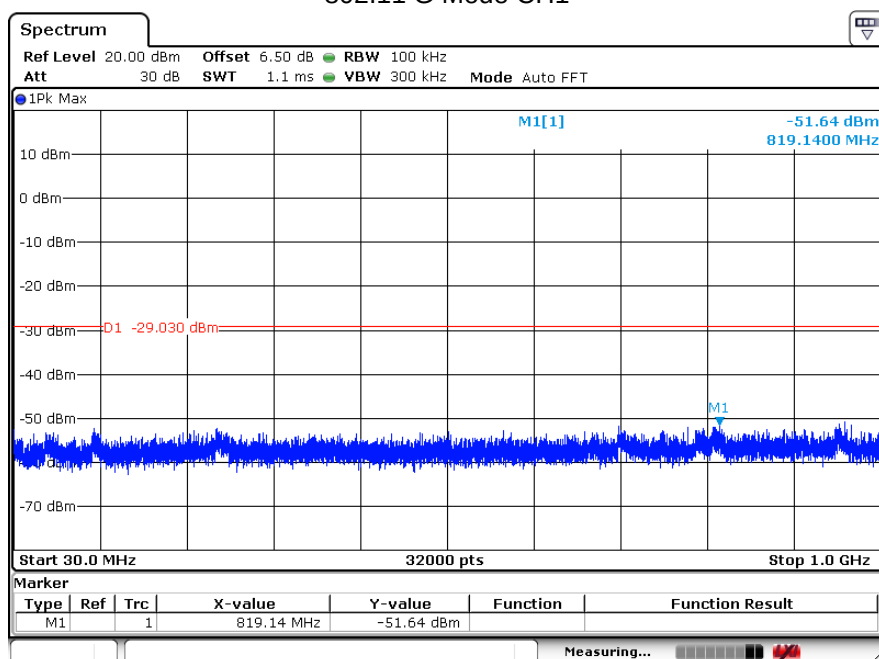
## 802.11 B Mode CH6



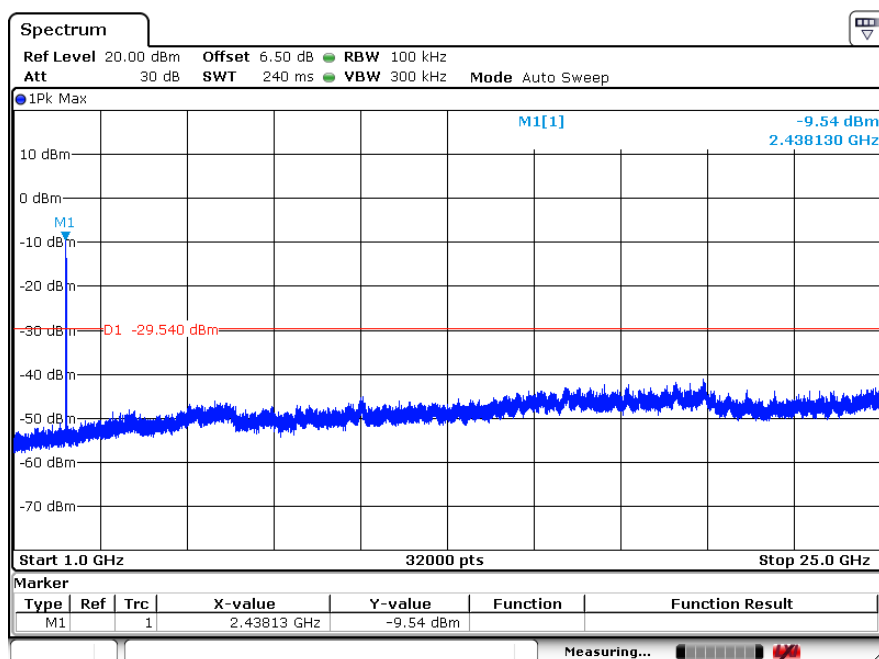
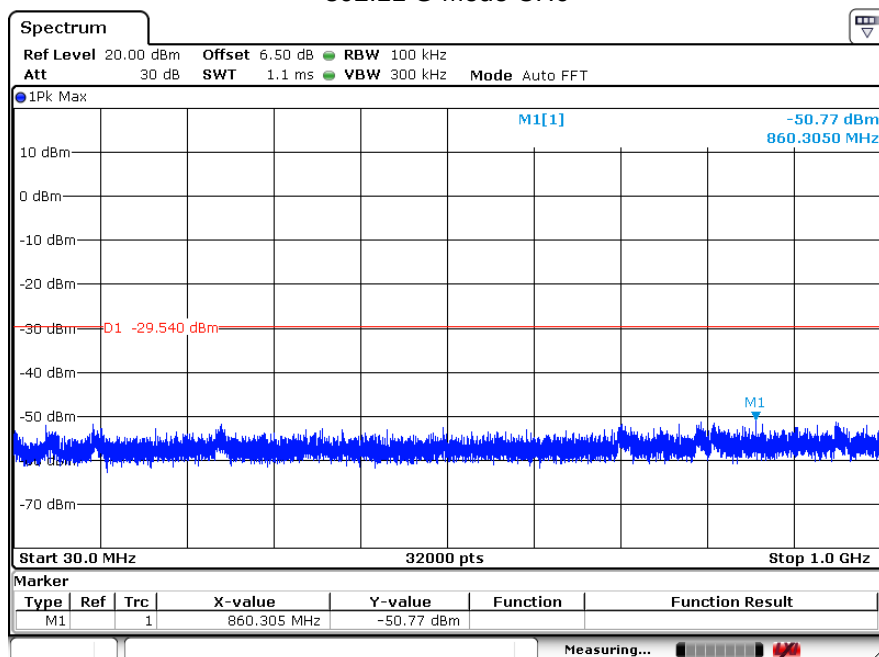
## 802.11 B Mode CH11



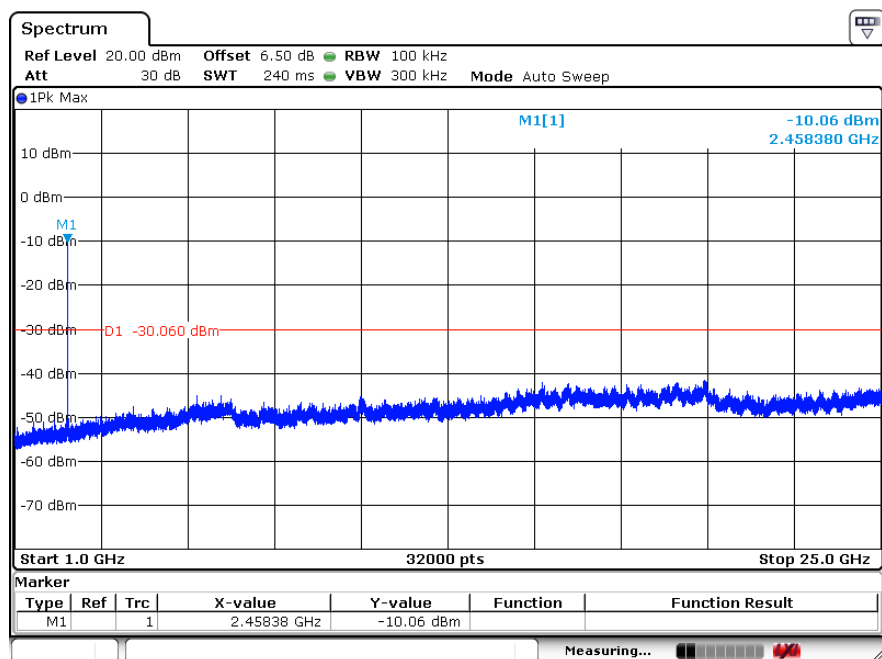
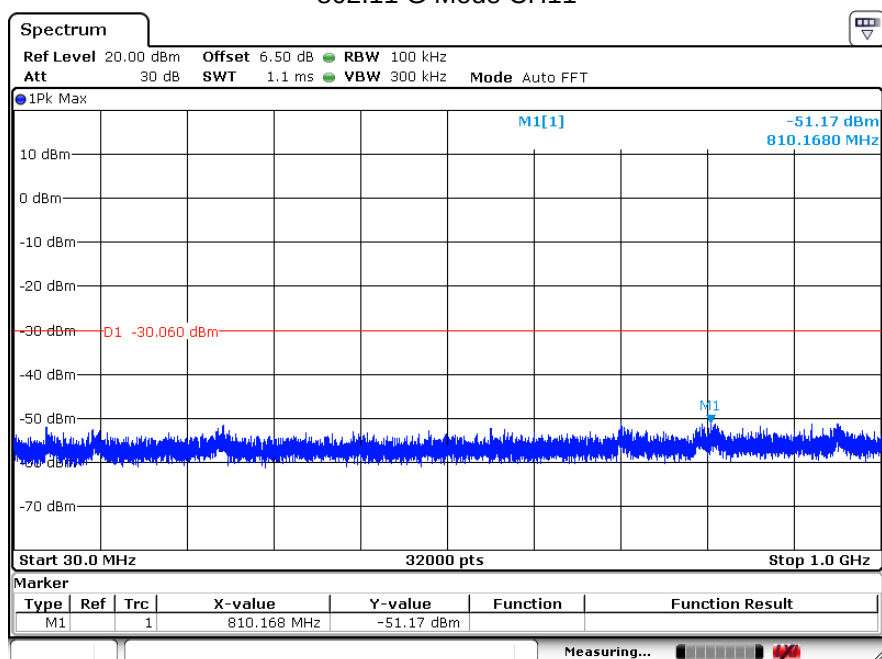
## 802.11 G Mode CH1



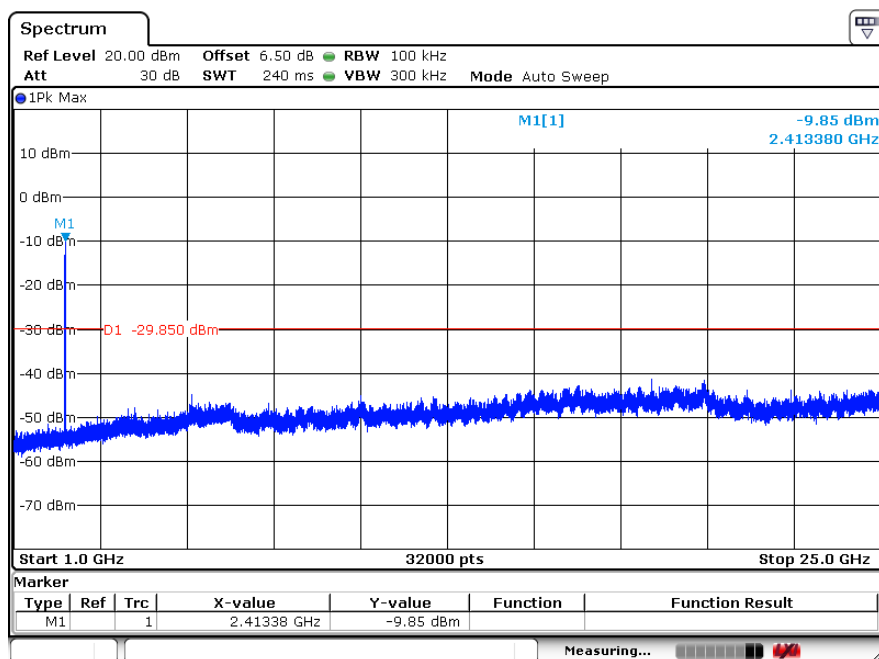
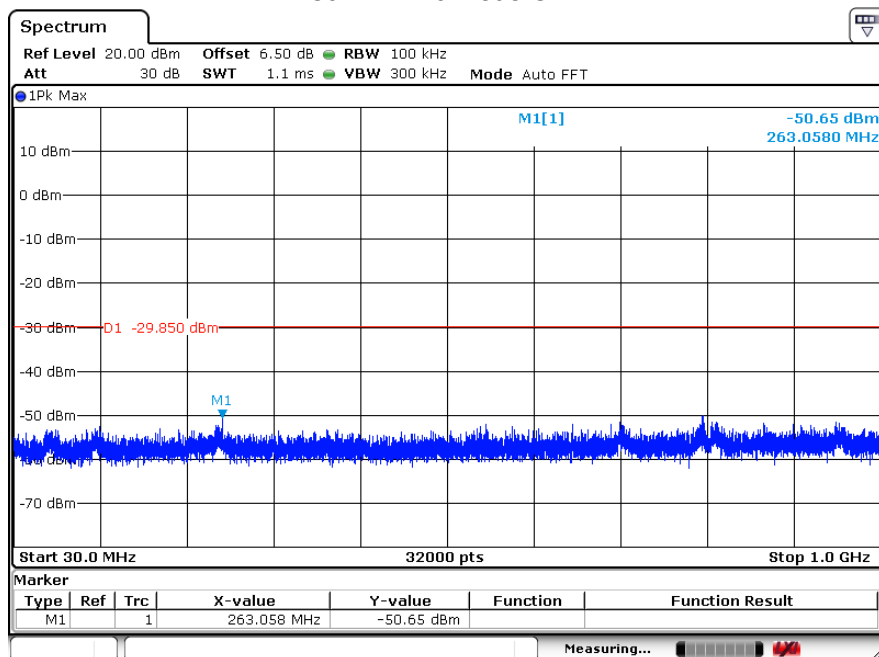
## 802.11 G Mode CH6



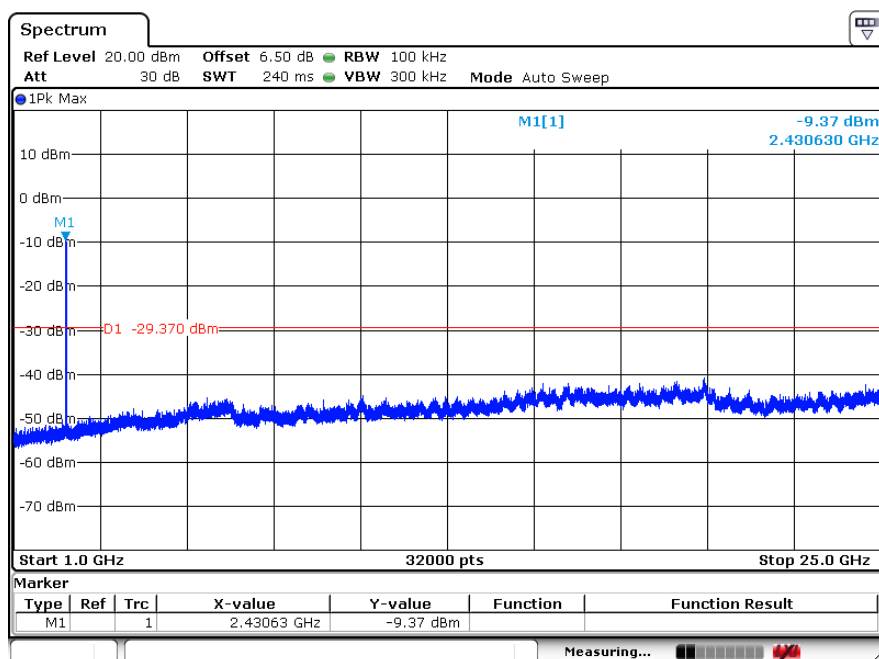
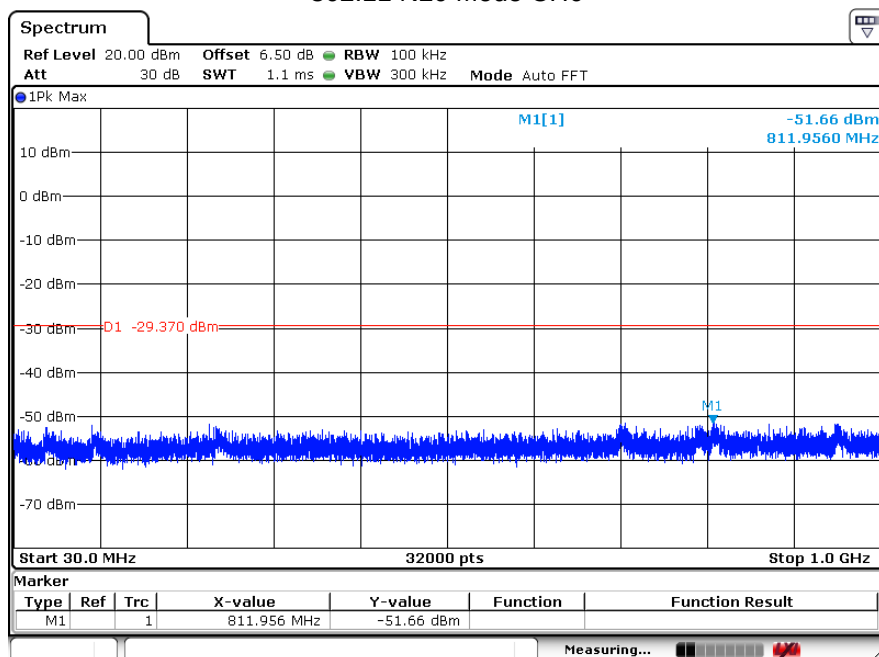
## 802.11 G Mode CH11



## 802.11 N20 Mode CH1

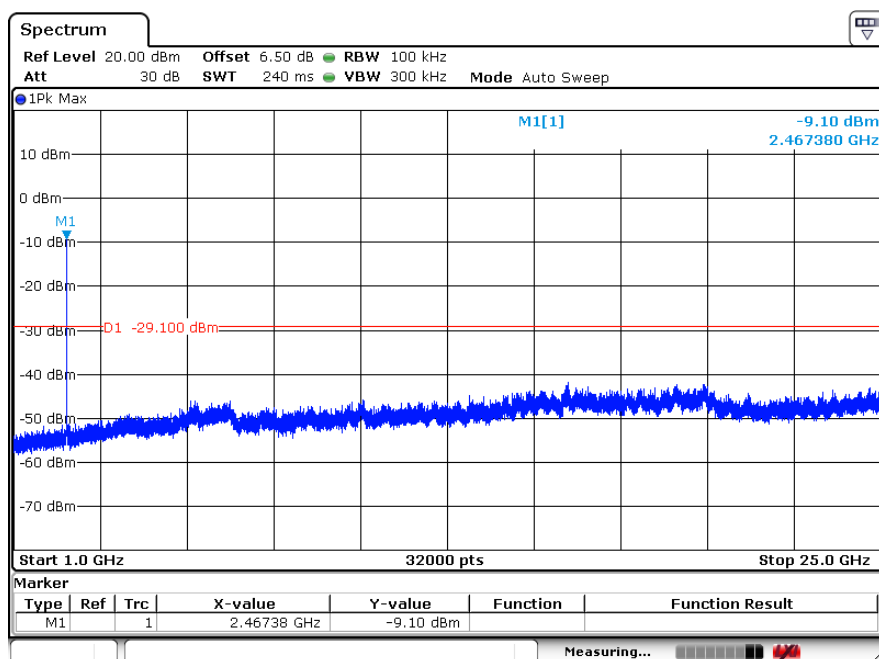
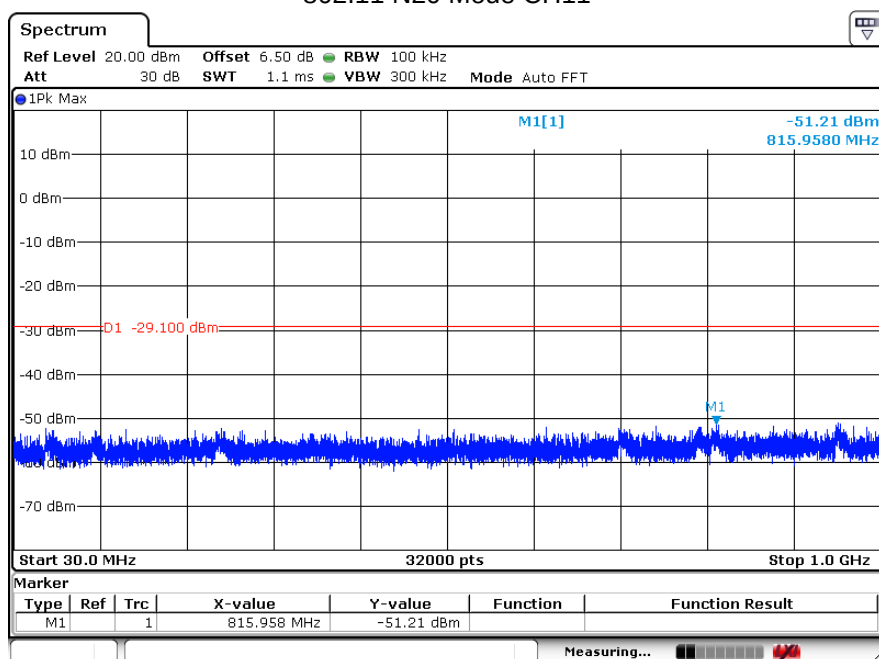


## 802.11 N20 Mode CH6

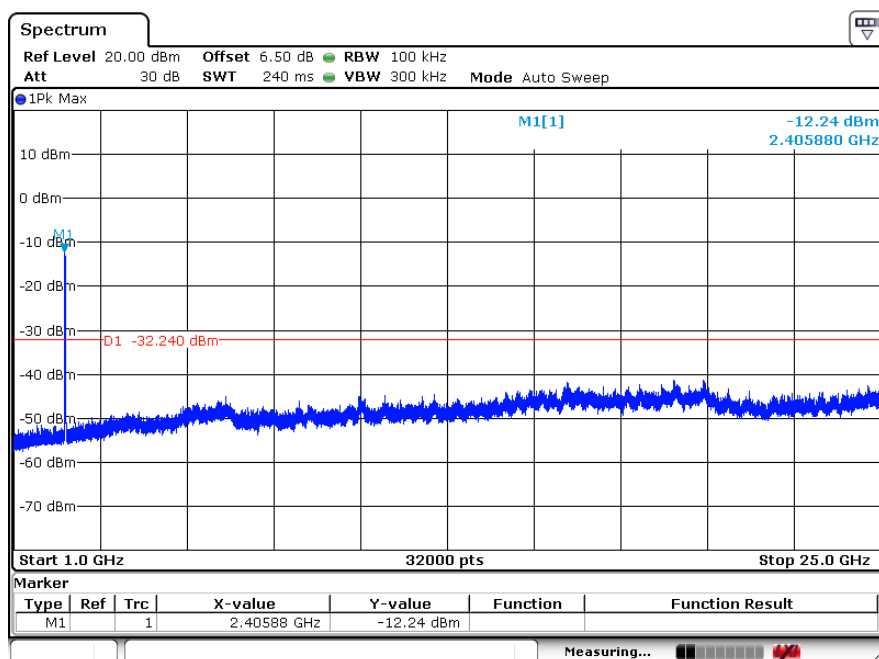
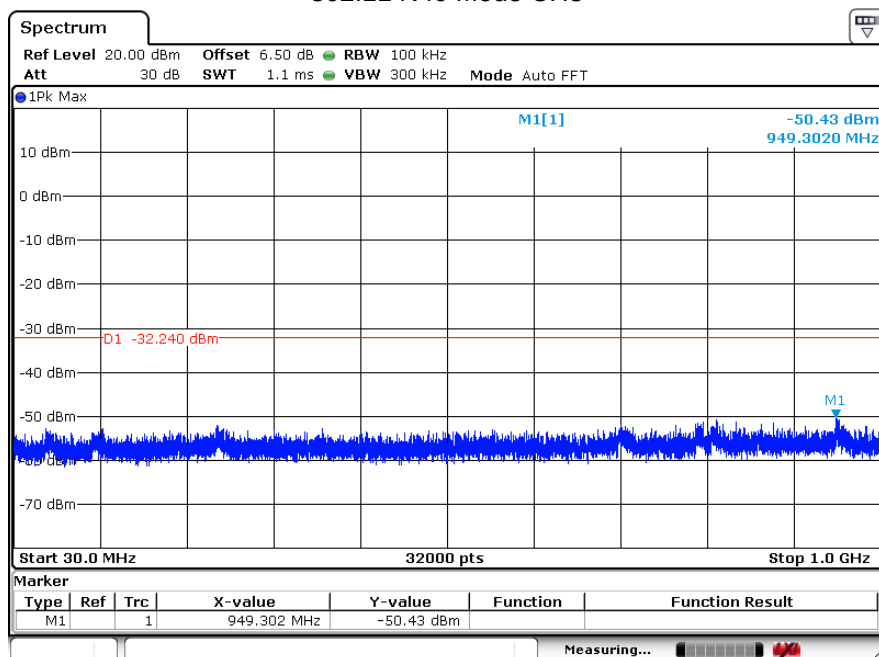




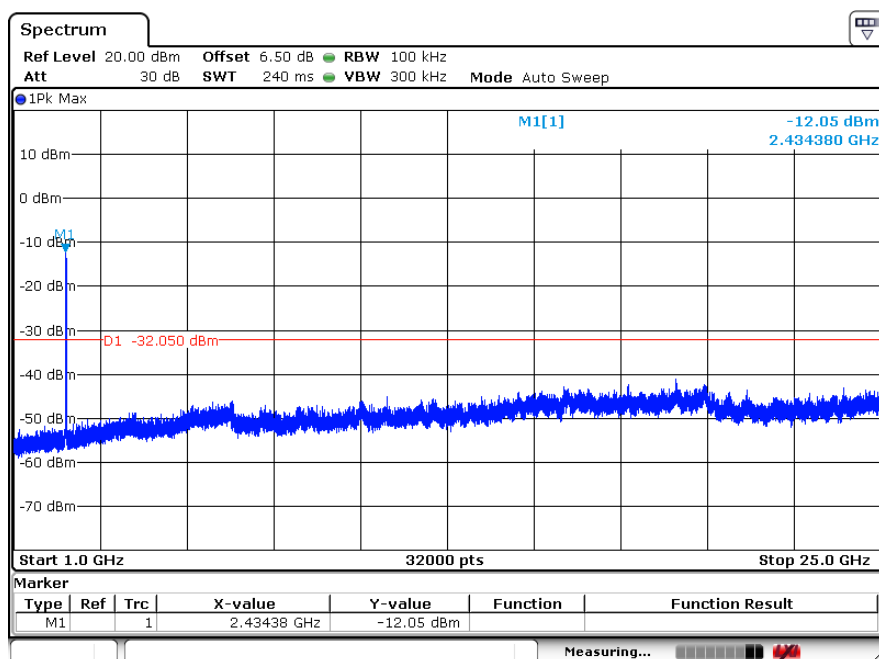
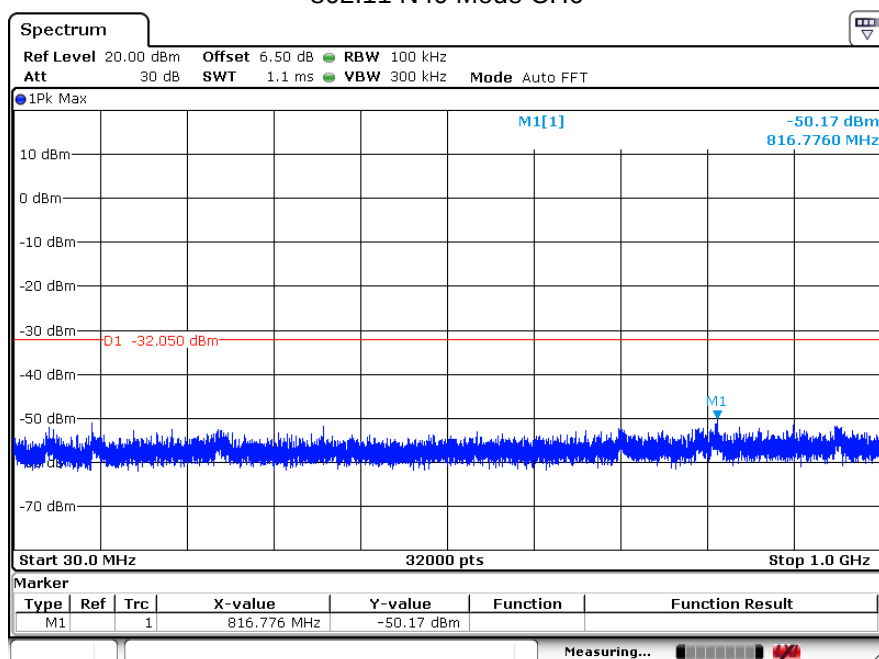
## 802.11 N20 Mode CH11



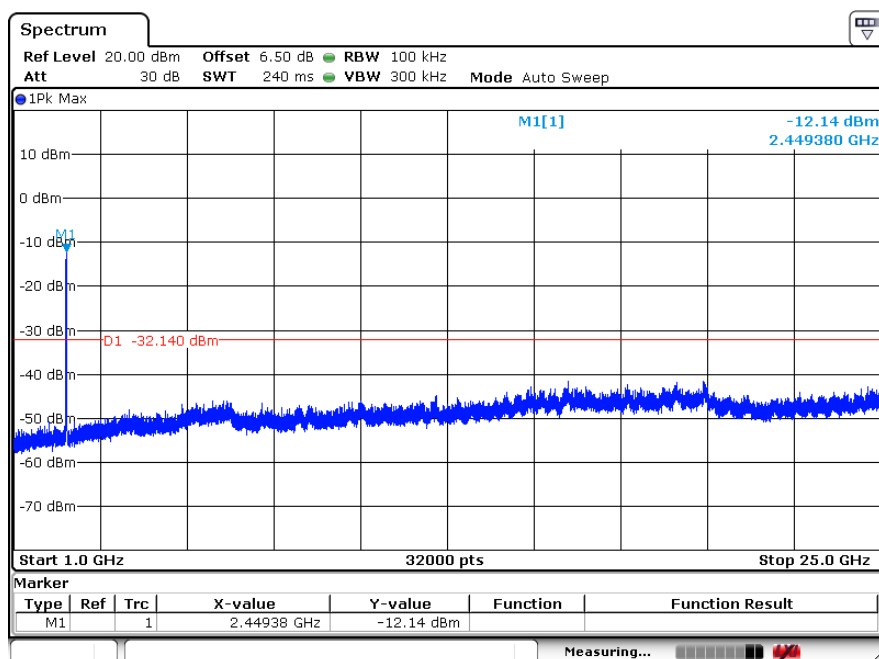
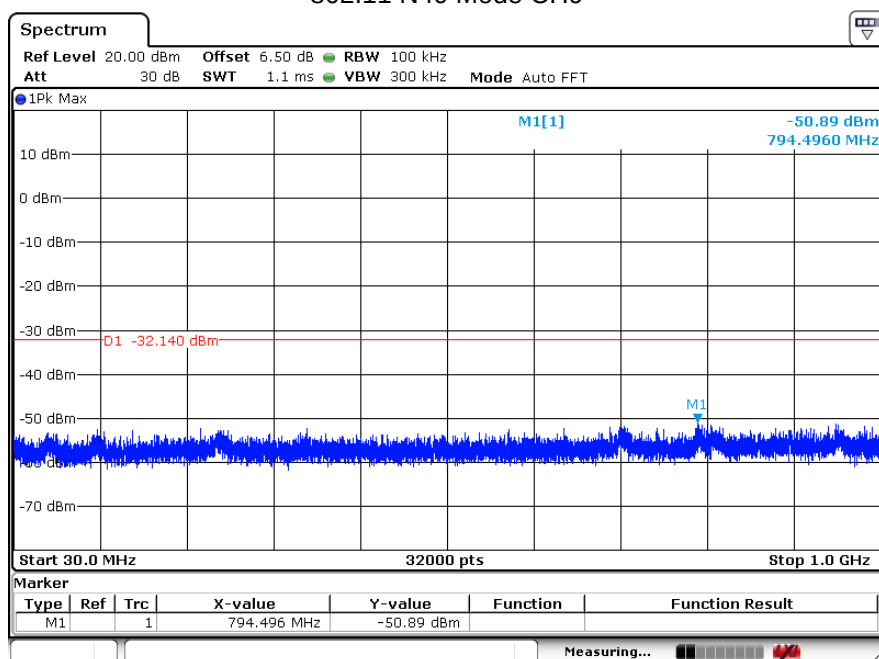
## 802.11 N40 Mode CH3



## 802.11 N40 Mode CH6



## 802.11 N40 Mode CH9

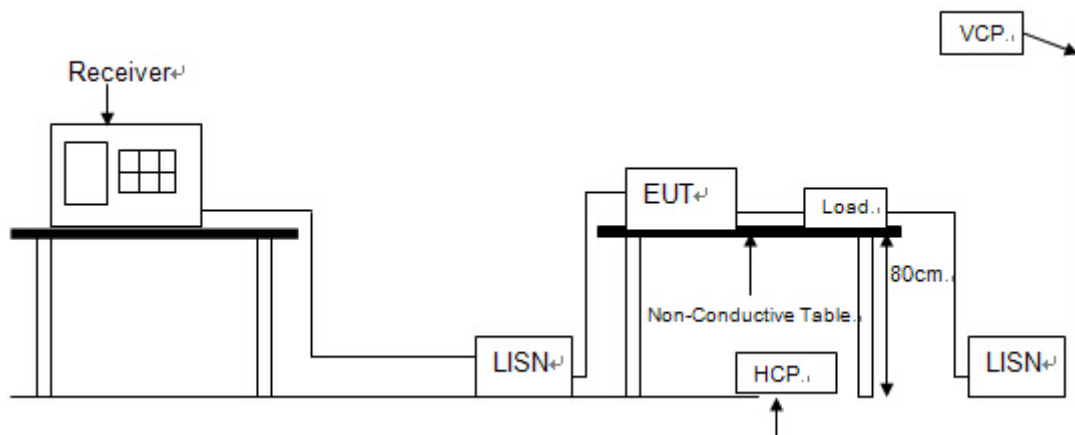


## 9 Power Line Conducted Emission

### 9.1 Test equipment

| Item | Kind of Equipment    | Manufacturer      | Type No.             | Serial No.      | Calibrated until |
|------|----------------------|-------------------|----------------------|-----------------|------------------|
| 1    | Pulse Limiter        | MTS-systemtechnik | MTS-IMP-136          | 261115-010-0024 | 12/17/2019       |
| 2    | EMI Test Receiver    | R&S               | ESCI                 | 101308          | 12/17/2019       |
| 3    | LISN                 | AFJ               | LS16                 | 16011103219     | 12/17/2019       |
| 4    | LISN                 | Schwarzbeck       | NSLK 8127            | 8127-432        | 12/17/2019       |
| 5    | Measurement Software | Farad             | EZ-EMC (Ver.ATT-03A) | N/A             | N/A              |
| 6    | MeasurementSoftware  | Farad             | EZ-EMC (Ver.ATT-03A) | N/A             | N/A              |

### 9.2 Block diagram of test setup



### 9.3 Power Line Conducted Emission Limits(Class B)

| Frequency       | Quasi-Peak Level<br>dB(μV) | Average Level<br>dB(μV) |
|-----------------|----------------------------|-------------------------|
| 150kHz ~ 500kHz | 66 ~ 56*                   | 56 ~ 46*                |
| 500kHz ~ 5MHz   | 56                         | 46                      |
| 5MHz ~ 30MHz    | 60                         | 50                      |

Note 1: \* Decreasing linearly with logarithm of frequency.

Note 2: The lower limit shall apply at the transition frequencies.

## 9.4 Test Procedure

The EUT and Support equipment, if needed, were put placed on a non-metallic table, 80cm above the ground plane.

Configuration EUT to simulate typical usage as described in clause 2.4 and test equipment as described in clause 10.2 of this report.

All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.

All support equipment power received from a second LISN.

Emissions were measured on each current carrying line of the EUT using an EMI Test Receiver connected to the LISN powering the EUT.

The Receiver scanned from 150 kHz to 30MHz for emissions in each of the test modes.

During the above scans, the emissions were maximized by cable manipulation.

The test mode(s) described in clause 2.4 were scanned during the preliminary test.

After the preliminary scan, we found the test mode producing the highest emission level.

The EUT configuration and worse cable configuration of the above highest emission levels were recorded for reference of the final test.

EUT and support equipment were set up on the test bench as per the configuration with highest emission level in the preliminary test.

A scan was taken on both power lines, Neutral and Line, recording at least the six highest emissions.

Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit.

The test data of the worst-case condition(s) was recorded.

The bandwidth of test receiver is set at 9 KHz.

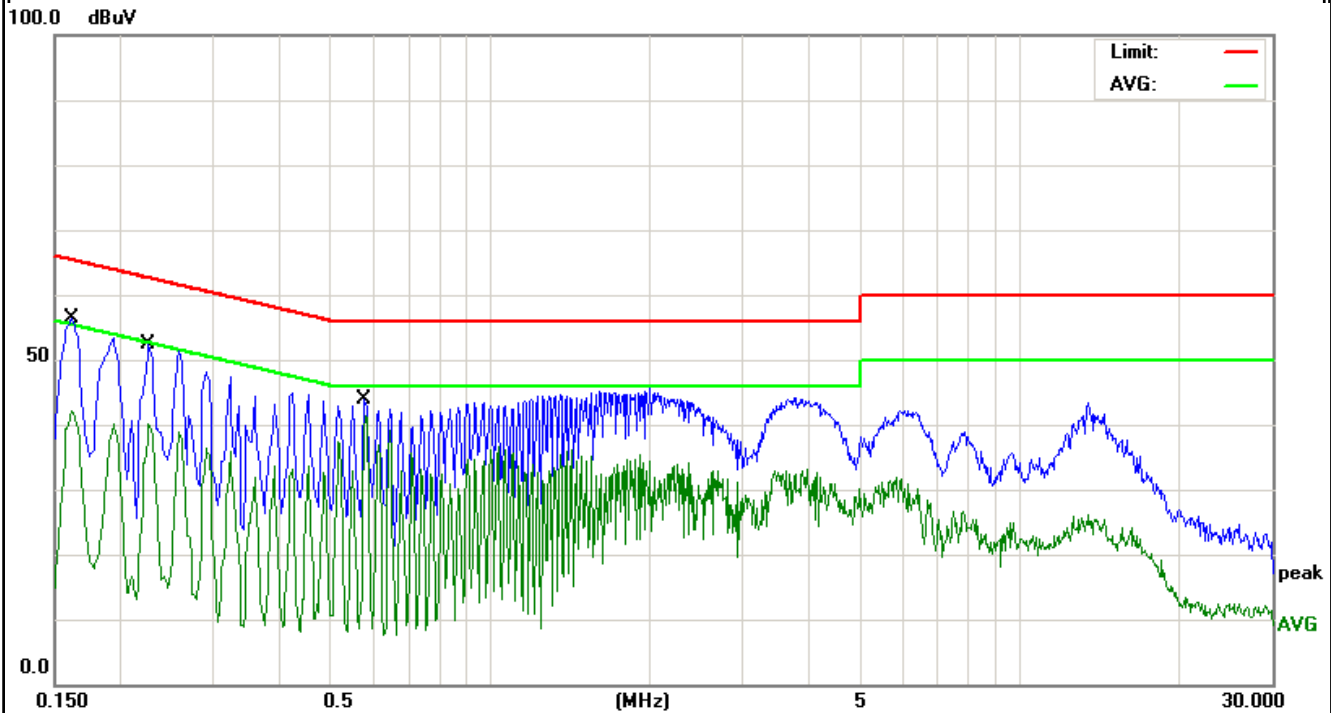
## 9.5 Test Result

PASS. (See below detailed test result)

Note1: All emissions not reported below are too low against the prescribed limits.

Note2: “-----” means peak detection; “-----” mans average detection

|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T10          |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | N                          | Test Result:       | Pass         |
| Test Time:   | 2019-06-13                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |

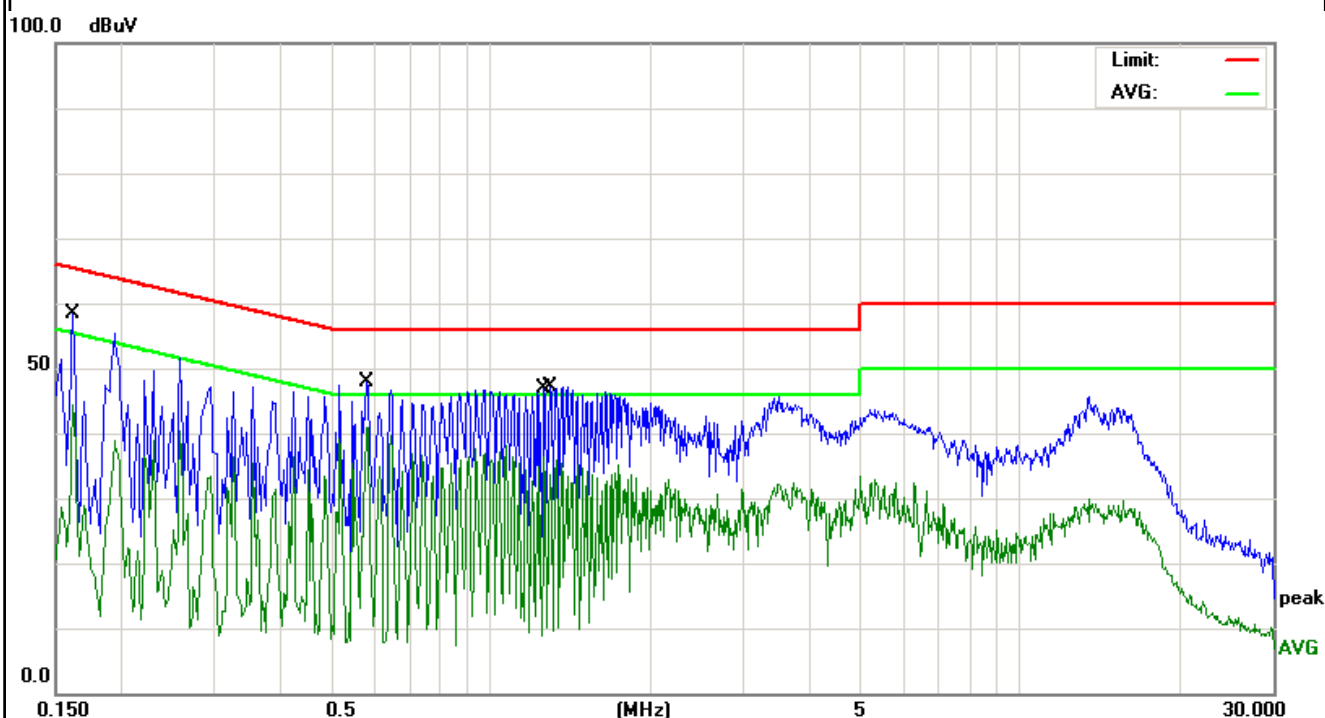


| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1620 | 44.74         | 11.68          | 56.42       | 65.36 | -8.94  | QP       |
| 2   |     | 0.1620 | 30.55         | 11.68          | 42.23       | 55.36 | -13.13 | AVG      |
| 3   |     | 0.2260 | 41.49         | 10.96          | 52.45       | 62.59 | -10.14 | QP       |
| 4   |     | 0.2260 | 29.17         | 10.96          | 40.13       | 52.59 | -12.46 | AVG      |
| 5   |     | 0.5780 | 33.84         | 9.97           | 43.81       | 56.00 | -12.19 | QP       |
| 6   | *   | 0.5820 | 31.41         | 9.97           | 41.38       | 46.00 | -4.62  | AVG      |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss + Attenuator
- (3) Margin = Result - Limit

|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T10          |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | L1                         | Test Result:       | Pass         |
| Test Time:   | 2019-06-13                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |



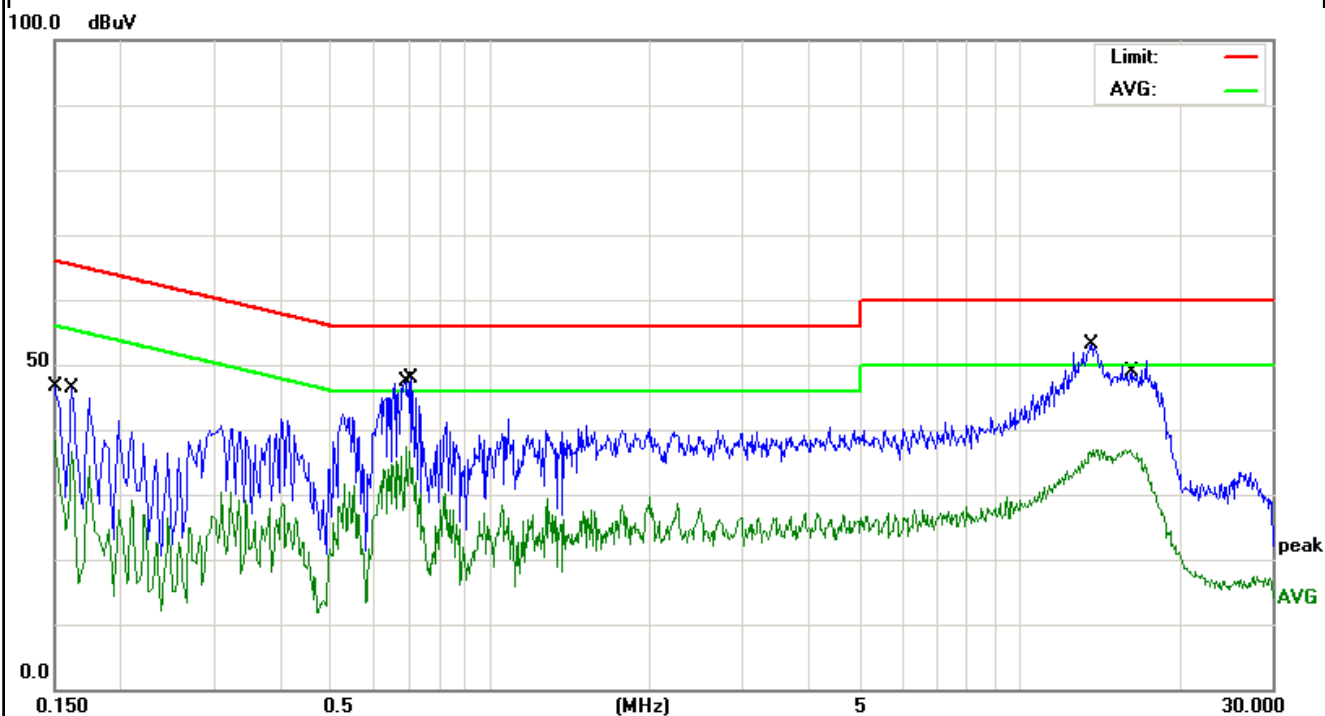
| No. | Mk. | Freq.  | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|--------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz    | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1620 | 46.77         | 11.68          | 58.45       | 65.36 | -6.91  | QP       |
| 2   |     | 0.1620 | 32.80         | 11.68          | 44.48       | 55.36 | -10.88 | AVG      |
| 3   |     | 0.5819 | 37.84         | 9.97           | 47.81       | 56.00 | -8.19  | QP       |
| 4   | *   | 0.5819 | 30.84         | 9.97           | 40.81       | 46.00 | -5.19  | AVG      |
| 5   |     | 1.2579 | 26.46         | 9.91           | 36.37       | 46.00 | -9.63  | AVG      |
| 6   |     | 1.2900 | 37.20         | 9.92           | 47.12       | 56.00 | -8.88  | QP       |

The test result is calculated as the following:

- (1) Result = Reading + Correct Factor
- (2) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator
- (3) Margin = Result - Limit



|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T7           |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | N                          | Test Result:       | Pass         |
| Test Time:   | 2019-06-13                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |

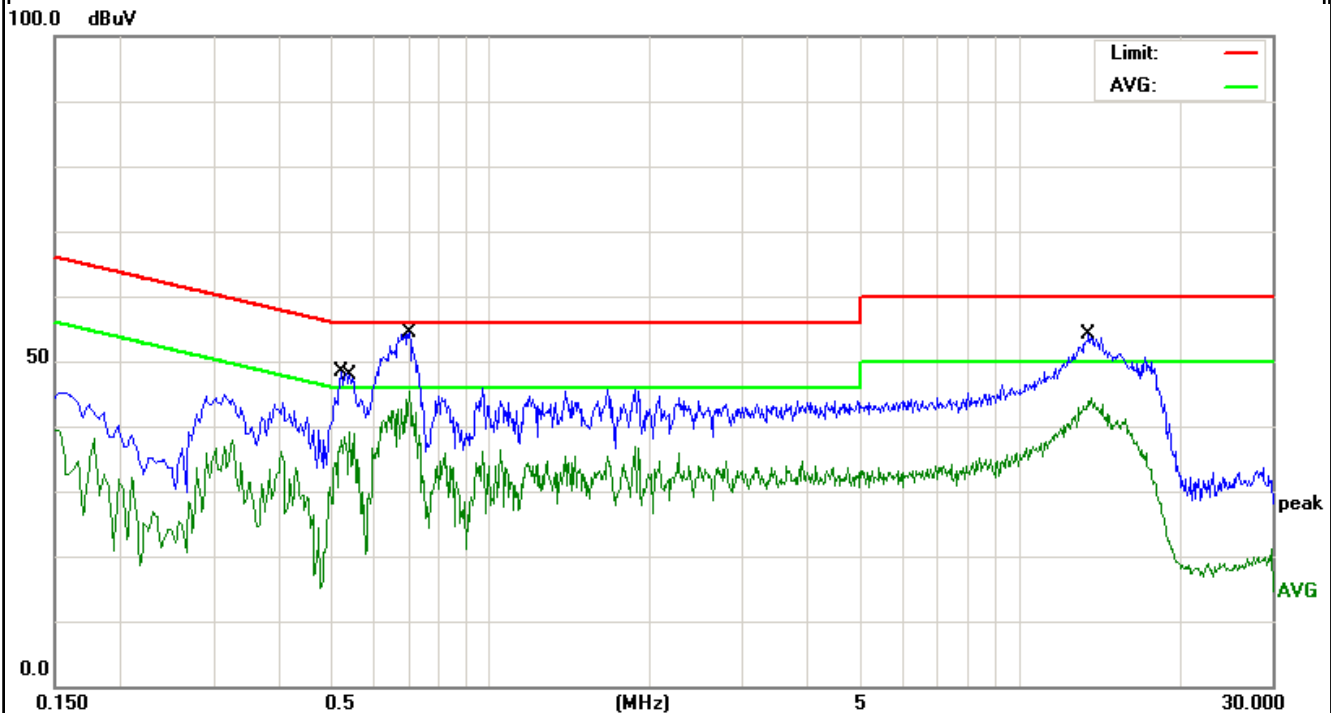


| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over   |          |
|-----|-----|---------|---------------|----------------|-------------|-------|--------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB     | Detector |
| 1   |     | 0.1499  | 26.33         | 11.94          | 38.27       | 56.00 | -17.73 | AVG      |
| 2   |     | 0.1620  | 34.66         | 11.68          | 46.34       | 65.36 | -19.02 | QP       |
| 3   |     | 0.6899  | 27.32         | 9.98           | 37.30       | 46.00 | -8.70  | AVG      |
| 4   |     | 0.7099  | 37.93         | 9.98           | 47.91       | 56.00 | -8.09  | QP       |
| 5   | *   | 13.6418 | 42.81         | 10.38          | 53.19       | 60.00 | -6.81  | QP       |
| 6   |     | 16.1418 | 26.35         | 10.58          | 36.93       | 50.00 | -13.07 | AVG      |

The test result is calculated as the following:

- (4) Result = Reading + Correct Factor
- (5) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss + Attenuator
- (6) Margin = Result - Limit

|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T7           |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | L1                         | Test Result:       | Pass         |
| Test Time:   | 2019-06-13                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measure-ment | Limit | Over  |          |
|-----|-----|---------|---------------|----------------|--------------|-------|-------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV         | dBuV  | dB    | Detector |
| 1   |     | 0.5220  | 38.47         | 10.01          | 48.48        | 56.00 | -7.52 | QP       |
| 2   |     | 0.5420  | 29.02         | 10.00          | 39.02        | 46.00 | -6.98 | AVG      |
| 3   |     | 0.7019  | 41.92         | 9.98           | 51.90        | 56.00 | -4.10 | QP       |
| 4   | *   | 0.7019  | 32.72         | 9.98           | 42.70        | 46.00 | -3.30 | AVG      |
| 5   |     | 13.5219 | 43.76         | 10.37          | 54.13        | 60.00 | -5.87 | QP       |
| 6   |     | 13.6298 | 34.00         | 10.38          | 44.38        | 50.00 | -5.62 | AVG      |

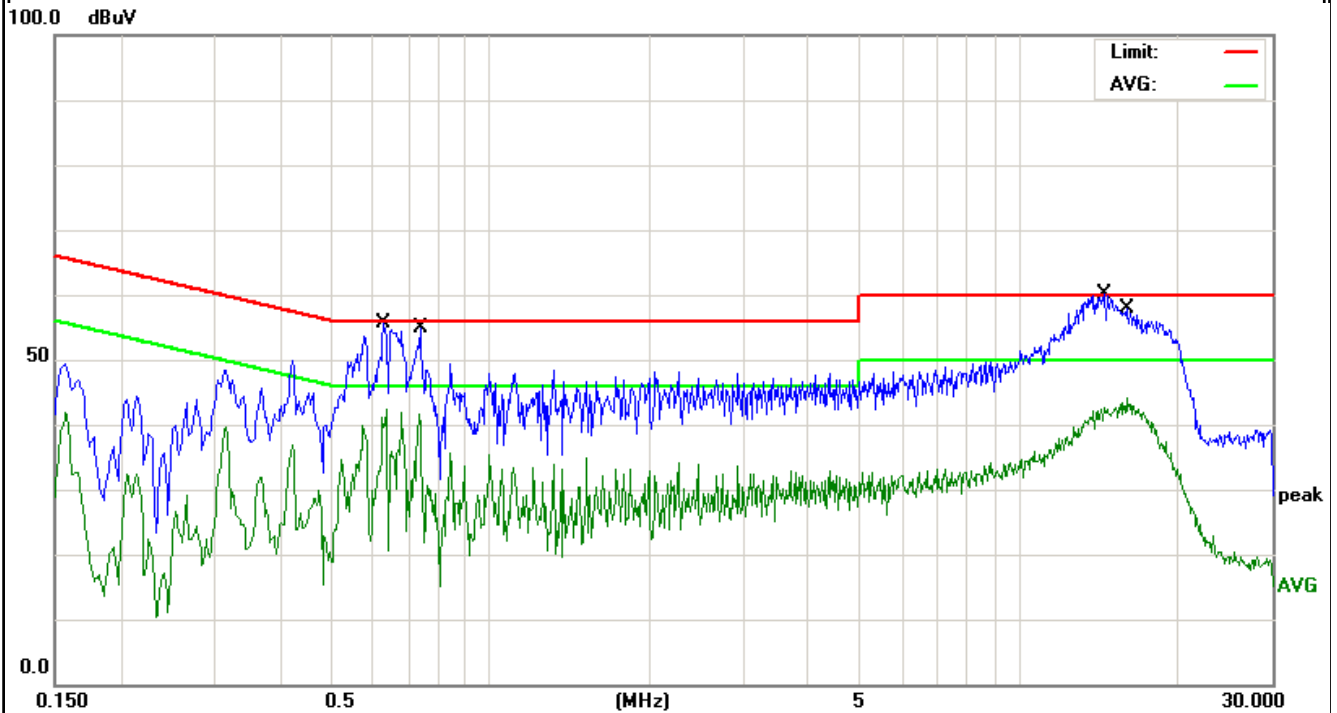
The test result is calculated as the following:

(4) Result = Reading + Correct Factor

(5) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator

(6) Margin = Result - Limit

|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T8           |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | N                          | Test Result:       | Pass         |
| Test Time:   | 2019-07-19                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |

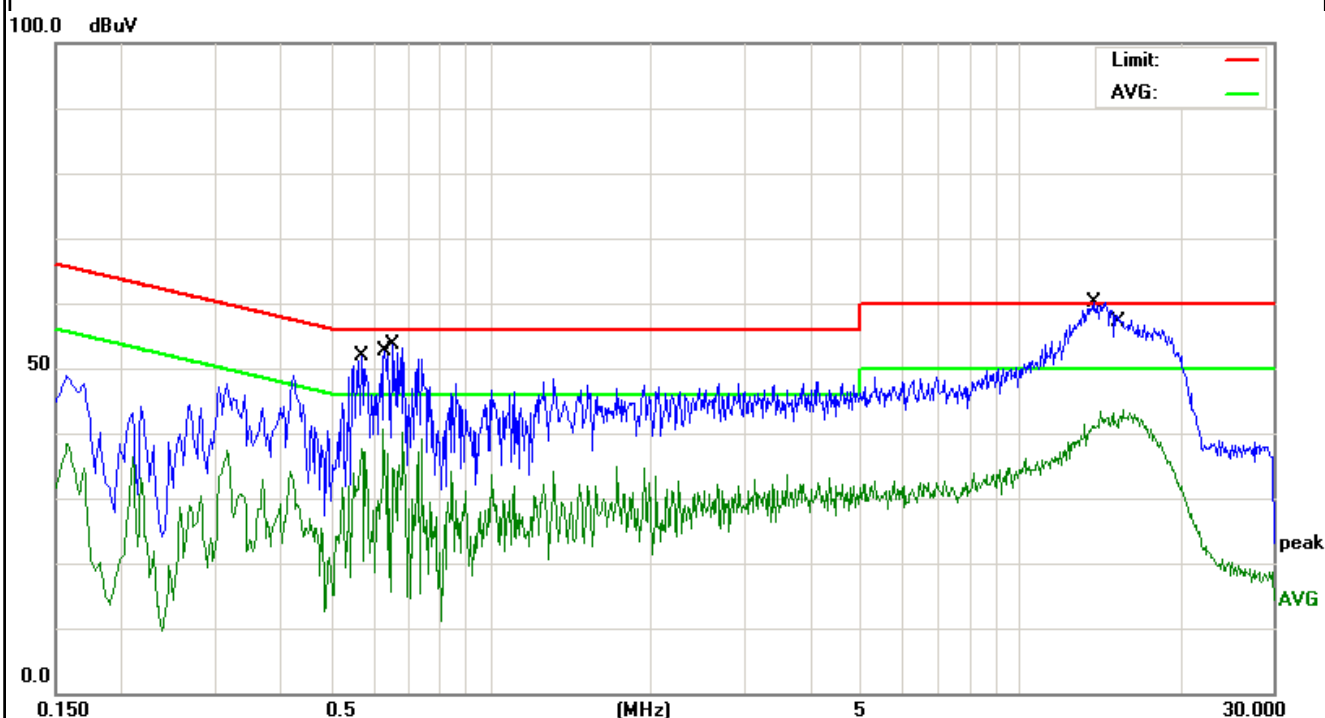


| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over  |          |
|-----|-----|---------|---------------|----------------|-------------|-------|-------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB    | Detector |
| 1   | *   | 0.6300  | 42.91         | 9.99           | 52.90       | 56.00 | -3.10 | QP       |
| 2   |     | 0.6340  | 32.31         | 9.99           | 42.30       | 46.00 | -3.70 | AVG      |
| 3   |     | 0.7340  | 31.57         | 9.97           | 41.54       | 46.00 | -4.46 | AVG      |
| 4   |     | 0.7380  | 41.83         | 9.97           | 51.80       | 56.00 | -4.20 | QP       |
| 5   |     | 14.4500 | 43.50         | 10.40          | 53.90       | 60.00 | -6.10 | QP       |
| 6   |     | 15.9540 | 33.65         | 10.55          | 44.20       | 50.00 | -5.80 | AVG      |

The test result is calculated as the following:

- (7) Result = Reading + Correct Factor
- (8) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator
- (9) Margin = Result - Limit

|              |                            |                    |              |
|--------------|----------------------------|--------------------|--------------|
| EUT:         | Android Tablet PC          | Model No.:         | T8           |
| Temperature: | 23℃                        | Relative Humidity: | 52%          |
|              |                            | Test Power:        | AC 120V/60Hz |
| Probe:       | L1                         | Test Result:       | Pass         |
| Test Time:   | 2019-07-19                 | Test By:           |              |
| Standard:    | (CE)FCC PART 15 class B_QP |                    |              |
| Test Mode:   | TX                         |                    |              |
| Note:        |                            |                    |              |



| No. | Mk. | Freq.   | Reading Level | Correct Factor | Measurement | Limit | Over  |          |
|-----|-----|---------|---------------|----------------|-------------|-------|-------|----------|
|     |     | MHz     | dBuV          | dB             | dBuV        | dBuV  | dB    | Detector |
| 1   |     | 0.5700  | 41.82         | 10.00          | 51.82       | 56.00 | -4.18 | QP       |
| 2   |     | 0.5700  | 27.67         | 10.00          | 37.67       | 46.00 | -8.33 | AVG      |
| 3   |     | 0.6260  | 30.71         | 9.99           | 40.70       | 46.00 | -5.30 | AVG      |
| 4   | *   | 0.6540  | 42.51         | 9.99           | 52.50       | 56.00 | -3.50 | QP       |
| 5   |     | 13.7340 | 44.42         | 10.38          | 54.80       | 60.00 | -5.20 | QP       |
| 6   |     | 15.6060 | 33.00         | 10.51          | 43.51       | 50.00 | -6.49 | AVG      |

The test result is calculated as the following:

(7) Result = Reading + Correct Factor

(8) Correct Factor = (LISN, ISN, PLC or Current Probe) Factor + Cable Loss +Attenuator

(9) Margin = Result - Limit

## 10. Antenna Requirements

### 10.1. Limit

For intentional device, according to FCC 47 CFR Section 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. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

### 10.2. Result

The antennas used for this product are built-in undetachable FPCB antenna and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only -1.07 dBi.

Therefore the EUT is considered sufficient to comply with the provision.