

# **FCC Test Report**

Report No.: AGC00408230802FR03

FCC ID : 2A3DR-AGMH6

**APPLICATION PURPOSE** : Original Equipment

**PRODUCT DESIGNATION**: 4G Smart Phone

**BRAND NAME** : AGM

MODEL NAME : AGM H6

**APPLICANT** : AGM MOBILE LIMITED

**DATE OF ISSUE** : Aug. 22, 2023

**STANDARD(S)** : FCC Part 15 Subpart C §15.247

**REPORT VERSION**: V1.0

Attestation of Global Conclude (Shenzhen) Co., Ltd



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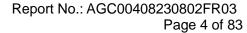
## REPORT REVISE RECORD

| Report Version | Revise Time | Issued Date   | Valid Version | Notes           |  |
|----------------|-------------|---------------|---------------|-----------------|--|
| V1.0           | /           | Aug. 22, 2023 | Valid         | Initial Release |  |



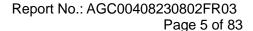
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# 1. VERIFICATION OF CONFORMITY

| Applicant                    | AGM MOBILE LIMITED  |
|------------------------------|---|
| Address                      | FLAT/RM 2253 22/F HOI TAI FACTORY ESTATE TSING YEUNG CIRCUIT TUEN MUN NT HONG KONG,CHINA  |
| manufacturer                 | SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO.,LTD   |
| Address                      | 1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China |
| Factory                      | SHENZHEN AIJIEMO SCIENCE AND TECHNOLOGY CO.,LTD   |
| Address                      | 1st Floor 101 and 2nd Floor 201, Building A2, Huafeng Century Technology Park, Nanchang Community, Xixiang, Baoan District, Shenzhen, China |
| Product Designation          | 4G Smart Phone  |
| Brand Name                   | AGM   |
| Test Model                   | AGM_H6  |
| Date of receipt of test item | Aug. 11, 2023   |
| Date of test                 | Aug. 11, 2023~Aug. 22, 2023   |
| Deviation                    | No any deviation from the test method   |
| Condition of Test Sample     | Normal  |
| Test Result                  | Pass  |
| Report Template              | AGCRT-US-BGN/RF   |

### We hereby certify that:

The above equipment was tested by Attestation of Global Compliance (Shenzhen) Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2013) and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rules Part 15.247.

| Prepared By | Bibo zhang                       |               |
|-------------|----------------------------------|---------------|
|             | Bibo Zhang<br>(Project Engineer) | Aug. 22, 2023 |
| Reviewed By | Calin Lin                        |               |
|             | Calvin Liu<br>(Reviewer)         | Aug. 22, 2023 |
| Approved By | Max Zhang                        |               |
|             | Max Zhang<br>Authorized Officer  | Aug. 22, 2023 |



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## 2. GENERAL INFORMATION

## 2.1. PRODUCT DESCRIPTION

| Equipment Type         | WLAN 2.4G  |
|------------------------|--|
| Frequency Band         | 2400MHz ~ 2483.5MHz  |
| Operation Frequency    | 2412MHz ~ 2462MHz  |
| Output Dower (Average) | IEEE 802.11b:15.10dBm; IEEE 802.11g:12.89dBm;                  |
| Output Power (Average) | IEEE 802.11n(HT20):11.39dBm; IEEE 802.11n(HT40):11.55dBm       |
| Output Power (Peak)    | IEEE 802.11b:17.83dBm; IEEE 802.11g:20.33dBm;                  |
| Output Power (Peak)    | IEEE 802.11n(HT20):19.08dBm; IEEE 802.11n(HT40):18.96dBm       |
| Modulation             | 802.11b:(DQPSK, DBPSK,CCK)DSSS                                 |
| Wiodulation            | 802.11g/n:(64-QAM,16-QAM,QPSK, BPSK)OFDM                       |
|                        | 802.11b:1/2/5.5/11Mbps   |
| Data Rate              | 802.11g: 6/9/12/18/24/36/48/54Mbps                             |
|                        | 802.11n: up to 300Mbps   |
| Number of channels     | 11   |
| Hardware Version       | S681_V1  |
| Software Version       | Android 13   |
| Antenna Designation    | PIFA antenna (Comply with requirements of the FCC part 15.203) |
| Antenna Gain           | -0.99dBi   |
| Power Supply           | DC 3.85V by battery or DC 5V by adapter                        |



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# 2.2. TABLE OF CARRIER FREQUENCYS

## For 2412-2462MHz:

## 11 channels are provided for 802.11b/g/n(HT20):

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

## 7 channels are provided for 802.11n(HT40:

| Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|
| 01      |           | 02      |           | 03      | 2422 MHz  |
| 04      | 2427 MHz  | 05      | 2432 MHz  | 06      | 2437 MHz  |
| 07      | 2442 MHz  | 08      | 2447 MHz  | 09      | 2452 MHz  |
| 10      |           | 11      |           |         |           |



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#### 2.3. IEEE 802.11N MODULATION SCHEME

| MCS<br>Index | Nss | Modulation | R   | NBPSC | NCBPS NDBPS |       |       | nta<br>//bps)<br>nsGl |       |       |
|--------------|-----|------------|-----|-------|-------------|-------|-------|-----------------------|-------|-------|
|              |     |            |     |       | 20MHz       | 40MHz | 20MHz | 40MHz                 | 20MHz | 40MHz |
| 0            | 1   | BPSK       | 1/2 | 1     | 52          | 108   | 26    | 54                    | 6.5   | 13.5  |
| 1            | 1   | QPSK       | 1/2 | 2     | 104         | 216   | 52    | 108                   | 13.0  | 27.0  |
| 2            | 1   | QPSK       | 3/4 | 2     | 104         | 216   | 78    | 162                   | 19.5  | 40.5  |
| 3            | 1   | 16-QAM     | 1/2 | 4     | 208         | 432   | 104   | 216                   | 26.0  | 54.0  |
| 4            | 1   | 16-QAM     | 3/4 | 4     | 208         | 432   | 156   | 324                   | 39.0  | 81.0  |
| 5            | 1   | 64-QAM     | 2/3 | 6     | 312         | 648   | 208   | 432                   | 52.0  | 108.0 |
| 6            | 1   | 64-QAM     | 3/4 | 6     | 312         | 648   | 234   | 489                   | 58.5  | 121.5 |
| 7            | 1   | 64-QAM     | 5/6 | 6     | 312         | 648   | 260   | 540                   | 65.0  | 135.0 |

| Symbol | Explanation                             |  |
|--------|---|--|
| NSS    | Number of spatial streams               |  |
| R      | Code rate                               |  |
| NBPSC  | Number of coded bits per single carrier |  |
| NCBPS  | Number of coded bits per symbol         |  |
| NDBPS  | Number of data bits per symbol          |  |
| GI     | Guard interval                          |  |



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# 2.5. RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for **FCC ID: 2A3DR-AGMH6** filing to comply with the FCC Part 15 requirements.

#### 2.6. TEST METHODOLOGY

The tests were performed according to following standards:

| No. | Identity           | Document Title  |
|-----|--------------------|---|
| 1   | FCC 47 CFR Part 2  | Frequency allocations and radio treaty matters; general rules and regulations   |
| 2   | FCC 47 CFR Part 15 | Radio Frequency Devices   |
| 3   | ANSI C63.10-2013   | American National Standard for Testing Unlicensed Wireless Devices  |
| 4   | KDB 662911         | KDB 662911 D01 Multiple Transmitter Output v02r01 Emissions Testing of Transmitters with Multiple Outputs in the Same Band (e.g., MIMO, Smart Antenna, etc) |

#### 2.7. SPECIAL ACCESSORIES

Refer to section 5.2.

#### 2.8. EQUIPMENT MODIFICATIONS

Not available for this EUT intended for grant.

#### 2.9. ANTENNA REQUIREMENT

## **Standard Requirement**

15.203 requirement:

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

15.247(b) (4) requirement:

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

#### **EUT Antenna:**

The non-detachable antenna inside the device cannot be replaced by the user at will. For the antenna gain is -0.99dBi



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#### 2.10. DUTY CYCLE

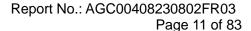
2.4GHz WLAN (DTS) operation is possible in 20MHz, and 40MHz channel bandwidths. The maximum achievable duty cycles for all modes were determined based on measurements performed on a spectrum analyzer in zero-span mode with RBW = 8MHz, VBW = 50MHz, and detector = Peak. The RBW and VBW were both greater than 50/T, where T is the minimum transmission duration. and the number of sweep points across I was greater than 100. The duty cycles are as follows.

| Operating mode.      | Data rates<br>(Mbps) | Duty Cycle<br>(%) | Duty Cycle Factor (dB) | 1/T Minimum<br>VBW(kHz) | Average Factor (dB) |
|----------------------|----------------------|-------------------|------------------------|-------------------------|---------------------|
| IEEE 802.11b         | 1                    | 98                | 0.09                   | 0.12                    | -0.18               |
| IEEE 802.11g         | 6                    | 90                | 0.46                   | 0.72                    | -0.92               |
| IEEE<br>802.11n-HT20 | MCS0                 | 89                | 0.51                   | 0.85                    | -1.01               |
| IEEE<br>802.11n-HT40 | MCS0                 | 79                | 1.02                   | 1.7                     | -2.05               |

## Remark:

- 1. Duty Cycle factor = 10 \* log (1/ Duty cycle)
- 2. Average factor = 20 log10 Duty Cycle

The duty cycle of each frequency band mode reflects the determination requirements of the low channel measurement value.





## The test plots as follows:





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## 3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ±U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%.

| Item  | Measurement Uncertainty    |
|---|----------------------------|
| Uncertainty of Conducted Emission for AC Port | $U_c = \pm 3.1 \text{ dB}$ |
| Uncertainty of Radiated Emission below 1GHz   | $U_c = \pm 4.0 \text{ dB}$ |
| Uncertainty of Radiated Emission above 1GHz   | $U_c = \pm 4.8 \text{ dB}$ |
| Uncertainty of total RF power, conducted      | $U_c = \pm 0.8 \text{ dB}$ |
| Uncertainty of RF power density, conducted    | $U_c = \pm 2.6 \text{ dB}$ |
| Uncertainty of spurious emissions, conducted  | $U_c = \pm 2 \%$           |
| Uncertainty of Occupied Channel Bandwidth     | U <sub>c</sub> = ±2 %      |



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# 4. DESCRIPTION OF TEST MODES

| NO. | TEST MODE DESCRIPTION            |  |
|-----|----------------------------------|--|
| 1   | Low channel transmitting (TX)    |  |
| 2   | Middle channel transmitting (TX) |  |
| 3   | High channel transmitting (TX)   |  |

#### Note:

- 1) Transmit by 802.11b with Date rate (1/2/5.5/11)
- 2) Transmit by 802.11g with Date rate (6/9/12/18/24/36/48/54)
- 3) Transmit by 802.11n (20MHz) with Date rate (6.5/13/19.5/26/39/52/58.5/65)
- 4) Transmit by 802.11n (40MHz) with Date rate (13.5/27/40.5/54/81/108/121.5/135)
- 5) The test channel for 20MHz bandwidth system is channel 1, 6 and 11.
- 6) The test channel for 40MHz bandwidth system is channel 3, 6 and 9.

#### Note:

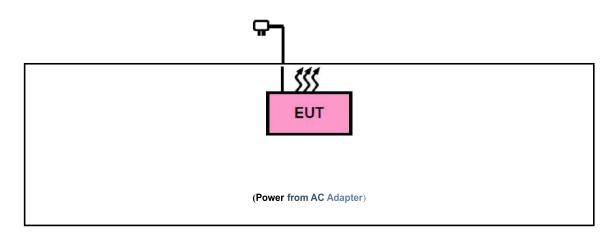
- 1. The EUT has been set to operate continuously on the lowest, middle and highest operation frequency Individually, and the EUT is operating at its maximum duty cycle>or equal 98%
- 2. All modes under which configure applicable have been tested and the worst mode test data recording in the test report, if no other mode data.
- 3. The test software is through engineering commands, EUT can be set to a separate test mode.



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# 5. SYSTEM TEST CONFIGURATION

## **5.1. CONFIGURATION OF EUT SYSTEM**



#### **5.2. EQUIPMENT USED IN EUT SYSTEM**

| Item | Equipment      | Model No. Identifier |   | Note |
|------|----------------|----------------------|---|------|
| 1    | 4G Smart Phone | AGM_H6               | FCC ID: 2A3DR-AGMH6                                     | EUT  |
| 2    | Adapter        | U312E0A050200        | Input: AC 100-240V 50/60Hz, 0.35A<br>Output: DC 5.0V 2A | AE   |
| 3    | Battery        | AGM_H6               | DC 3.85V 4930mAh  | AE   |
| 4    | USB Cable      | N/A                  | N/A   | AE   |

#### 5.3. SUMMARY OF TEST RESULTS

| Item | FCC Rules            | Description Of Test              | Result |
|------|----------------------|----------------------------------|--------|
| 1    | §15.203&15.247(b)(4) | Antenna Equipment                | Pass   |
| 2    | §15.247 (b)(1)       | RF Output Power                  | Pass   |
| 3    | §15.247 (a)(1)       | 6 dB Bandwidth                   | Pass   |
| 4    | §15.247 (e)          | Power Spectral Density           | Pass   |
| 4    | §15.247 (d)          | Conducted Spurious Emission      | Pass   |
| 5    | §15.209              | Radiated Emission& Band Edge     | Pass   |
| 6    | §15.207              | AC Power Line Conducted Emission | Pass   |



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## 6. TEST FACILITY

| Test Site                            | Attestation of Global Compliance (Shenzhen) Co., Ltd   |
|--------------------------------------|--|
| Location                             | 1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |
| Designation Number                   | CN1259   |
| FCC Test Firm<br>Registration Number | 975832   |
| A2LA Cert. No.                       | 5054.02  |
| Description                          | Attestation of Global Compliance(Shenzhen) Co., Ltd is accredited by A2LA  |

## TEST EQUIPMENT OF CONDUCTED EMISSION TEST

| Equipment     | Manufacturer | Model                | S/N    | Cal. Date     | Cal. Due      |
|---------------|--------------|----------------------|--------|---------------|---------------|
| TEST RECEIVER | R&S          | ESPI                 | 101206 | Jun. 03, 2023 | Jun. 02, 2024 |
| LISN          | R&S          | ESH2-Z5              | 100086 | Jun. 03, 2023 | Jun. 02, 2024 |
| Test software | R&S          | ES-K1<br>(Ver.V1.71) | N/A    | N/A           | N/A           |

## **TEST EQUIPMENT OF RADIATED EMISSION TEST**

| Equipment                            | Manufacturer    | Model                | S/N        | Cal. Date     | Cal. Due      |
|--------------------------------------|-----------------|----------------------|------------|---------------|---------------|
| TEST<br>RECEIVER                     | R&S             | ESCI                 | 10096      | Feb. 18, 2023 | Feb. 17, 2024 |
| EXA Signal<br>Analyzer               | Aglient         | N9010A               | MY53470504 | Jun. 01, 2023 | May 31, 2024  |
| 2.4GHz Filter                        | EM Electronics  | 2400-2500MHz         | N/A        | N/A           | N/A           |
| Horn antenna                         | SCHWARZBEC<br>K | BBHA 9170            | #768       | Oct. 31, 2021 | Oct. 30, 2023 |
| Active loop<br>antenna<br>(9K-30MHz) | ZHINAN          | ZN30900C             | 18051      | Mar. 12, 2022 | Mar. 11, 2024 |
| Double-Ridged<br>Waveguide Horn      | ETS LINDGREN    | 3117                 | 00034609   | Mar. 12, 2022 | Mar. 11, 2024 |
| Broadband<br>Preamplifier            | ETS LINDGREN    | 3117PA               | 00225134   | Aug. 04, 2022 | Aug. 03, 2024 |
| ANTENNA                              | SCHWARZBEC<br>K | VULB9168             | 494        | Jan. 05, 2023 | Jan. 04, 2025 |
| Test software                        | Tonscend        | JS32-RE<br>(Ver.2.5) | N/A        | N/A           | N/A           |



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## 7. RF OUTPUT POWER MEASUREMENT

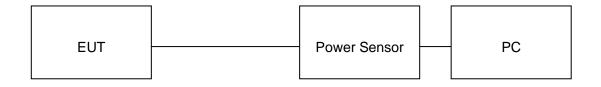
#### 7.1. MEASUREMENT PROCEDURE

For average power test:

- 1. Connect EUT RF output port to power sensor through.
- 2. Connect the power sensor to the PC.
- 3. Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 4. Record the maximum power from the software.

**Note**: The EUT was tested according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.

## 7.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)





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#### 7.4 MEASUREMENT RESULT

| Test Data of Conducted Output Power |                       |                     |                     |              |              |  |
|-------------------------------------|-----------------------|---------------------|---------------------|--------------|--------------|--|
| Test Mode                           | Test Channel<br>(MHz) | Average Power (dBm) | Peak Power<br>(dBm) | Limits (dBm) | Pass or Fail |  |
|                                     | 2412                  | 15.10               | 17.83               | ≤30          | Pass         |  |
| 802.11b                             | 2437                  | 15.04               | 17.80               | ≤30          | Pass         |  |
|                                     | 2462                  | 14.18               | 17.00               | ≤30          | Pass         |  |
|                                     | 2412                  | 12.89               | 20.33               | ≤30          | Pass         |  |
| 802.11g                             | 2437                  | 12.42               | 19.89               | ≤30          | Pass         |  |
|                                     | 2462                  | 11.15               | 19.02               | ≤30          | Pass         |  |
|                                     | 2412                  | 11.39               | 19.08               | ≤30          | Pass         |  |
| 802.11n20                           | 2437                  | 10.84               | 18.72               | ≤30          | Pass         |  |
|                                     | 2462                  | 10.17               | 17.95               | ≤30          | Pass         |  |
| 802.11n40                           | 2422                  | 11.55               | 18.96               | ≤30          | Pass         |  |
|                                     | 2437                  | 11.53               | 18.78               | ≤30          | Pass         |  |
|                                     | 2452                  | 10.53               | 18.11               | ≤30          | Pass         |  |



#### 8. 6DB BANDWIDTH MEASUREMENT

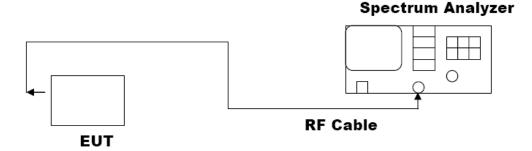
#### **8.1 MEASUREMENT LIMITS**

The minimum 6 dB bandwidth shall be 500 kHz.

#### **8.2 MEASUREMENT PROCEDURE**

- 1) The testing follows the ANSI C63.10 Section 6.9.3 (OBW) and 11.8.1 (6dB BW).
- 2) The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
- 3) Set to the maximum power setting and enable the EUT transmit continuously.
- 4) For 6dB Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement.
- 5) For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) is set 1-5% of the emission bandwidth and set the Video bandwidth (VBW) ≥ 3 \* RBW.
- 6) Detector = peak
- 7) Trace mode = max hold.
- 8) Sweep = auto couple.
- 9) Allow the trace to stabilize.
- 10) Measure and record the results in the test report.

## 8.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

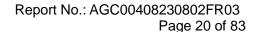




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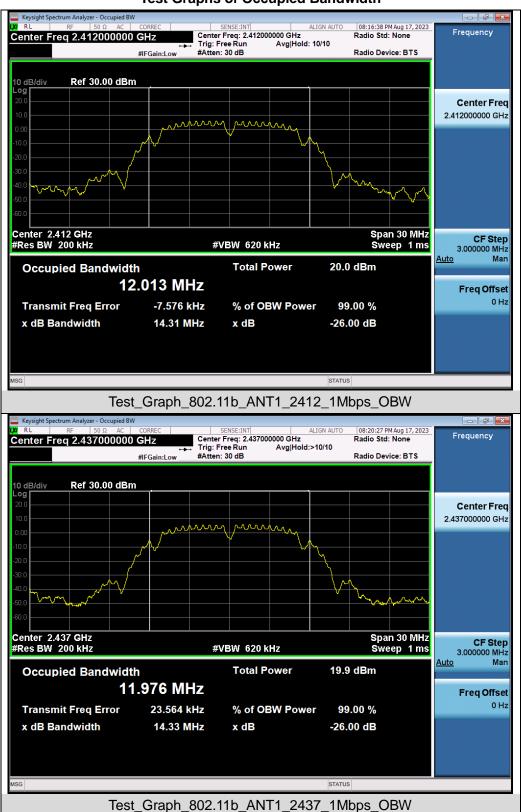
#### **8.4 MEASUREMENT RESULTS**

|           | Test Data of Occupied Bandwidth and DTS Bandwidth |                                 |                         |                 |              |  |
|-----------|---|---------------------------------|-------------------------|-----------------|--------------|--|
| Test Mode | Test Channel<br>(MHz)                             | 99% Occupied<br>Bandwidth (MHz) | -6dB<br>Bandwidth (MHz) | Limits<br>(MHz) | Pass or Fail |  |
|           | 2412  | 12.013                          | 10.056                  | ≥0.5            | Pass         |  |
| 802.11b   | 2437  | 11.976                          | 10.064                  | ≥0.5            | Pass         |  |
|           | 2462  | 11.990                          | 10.053                  | ≥0.5            | Pass         |  |
|           | 2412  | 16.632                          | 16.366                  | ≥0.5            | Pass         |  |
| 802.11g   | 2437  | 16.588                          | 16.352                  | ≥0.5            | Pass         |  |
|           | 2462  | 16.601                          | 16.364                  | ≥0.5            | Pass         |  |
|           | 2412  | 17.523                          | 16.877                  | ≥0.5            | Pass         |  |
| 802.11n20 | 2437  | 17.571                          | 16.968                  | ≥0.5            | Pass         |  |
|           | 2462  | 17.540                          | 16.984                  | ≥0.5            | Pass         |  |
| 802.11n40 | 2422  | 36.049                          | 35.627                  | ≥0.5            | Pass         |  |
|           | 2437  | 36.168                          | 35.929                  | ≥0.5            | Pass         |  |
|           | 2452  | 36.093                          | 35.925                  | ≥0.5            | Pass         |  |

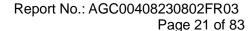




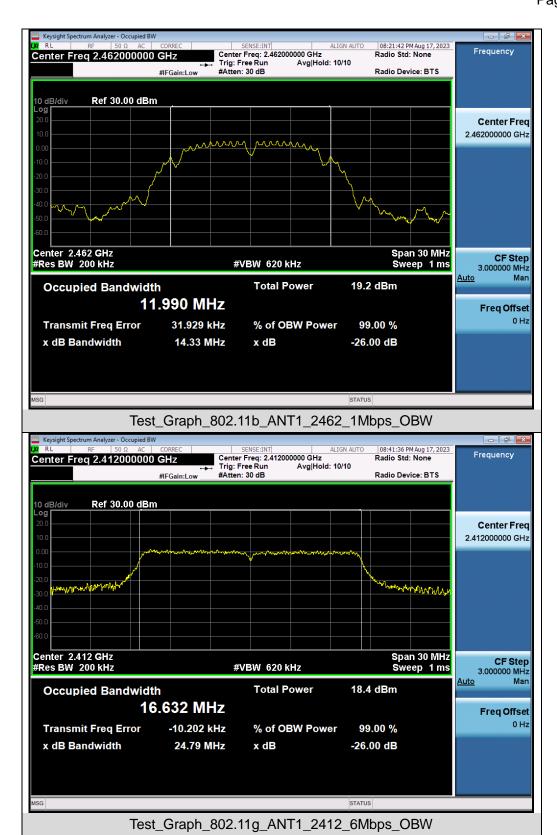
## Test Graphs of Occupied Bandwidth

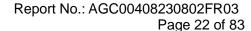


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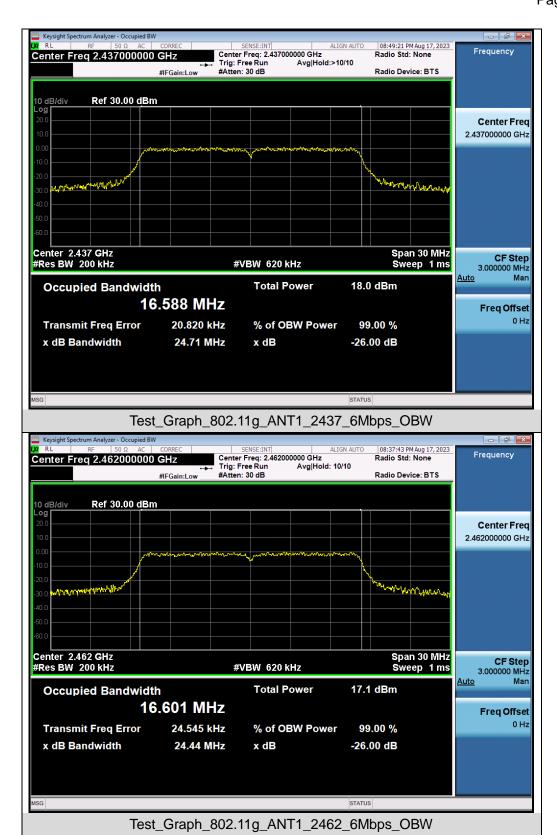


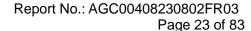




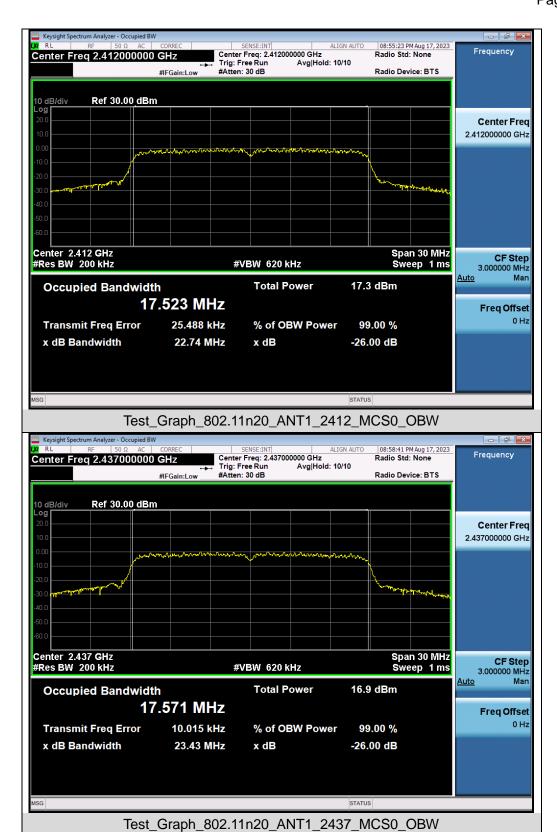


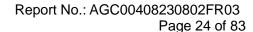




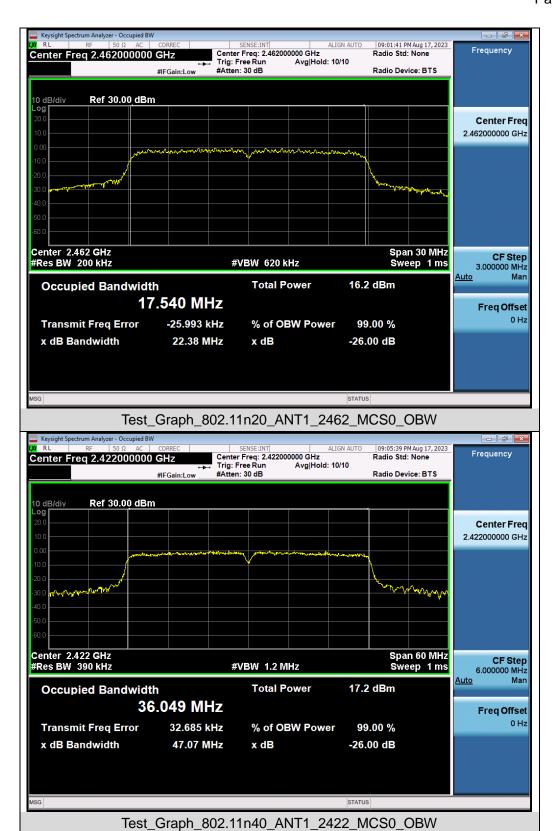


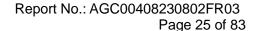




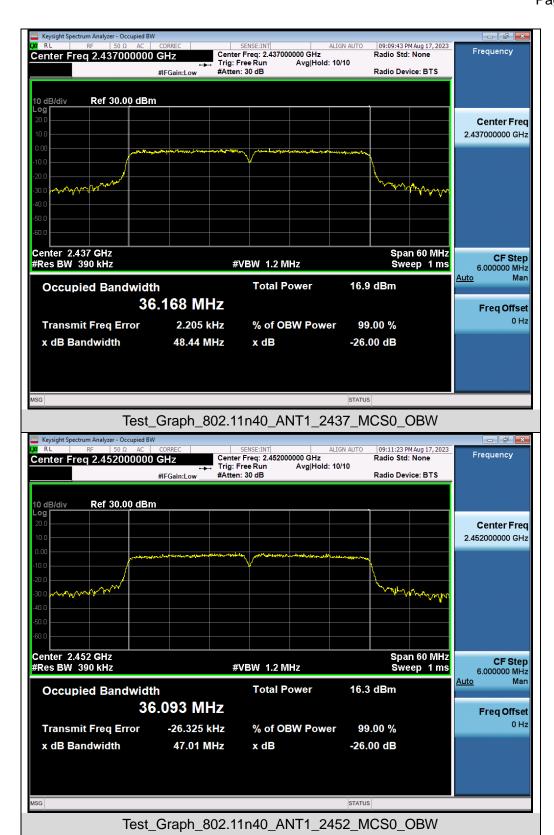


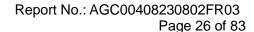












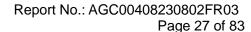


## Test Graphs of DTS Bandwidth

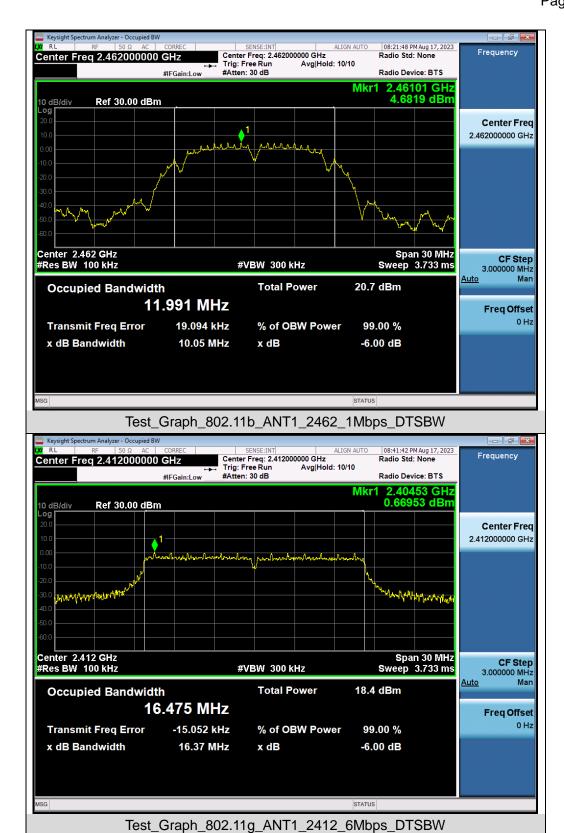


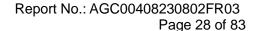
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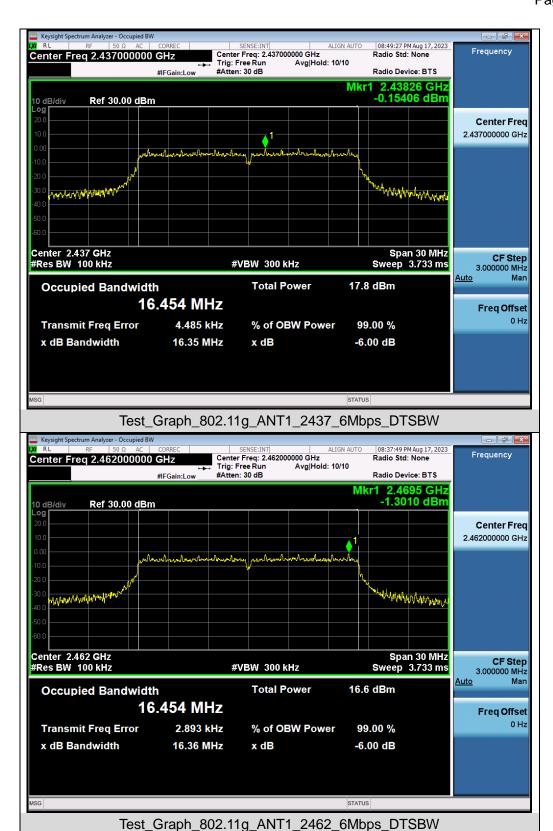


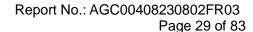




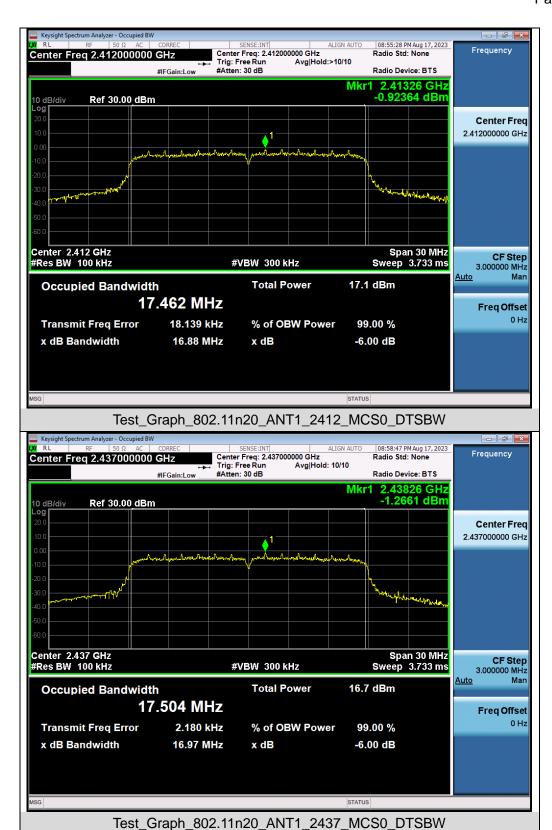


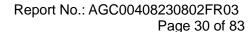




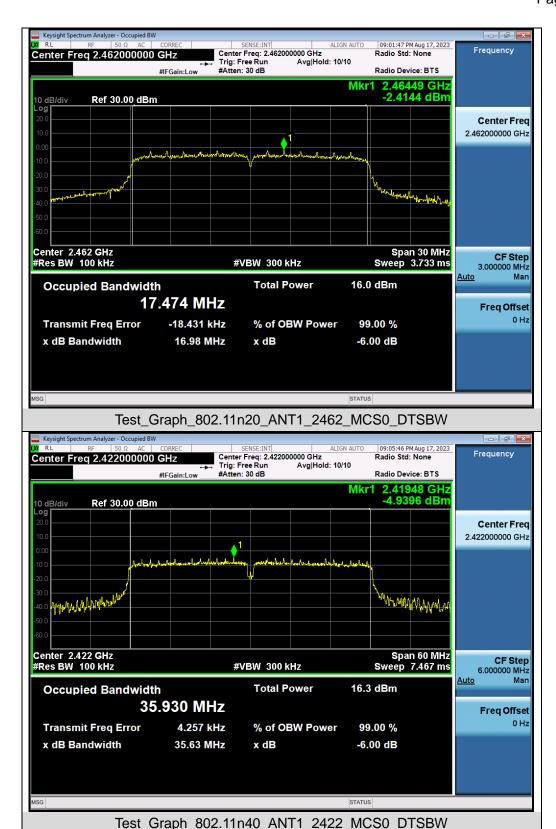


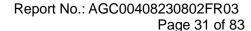




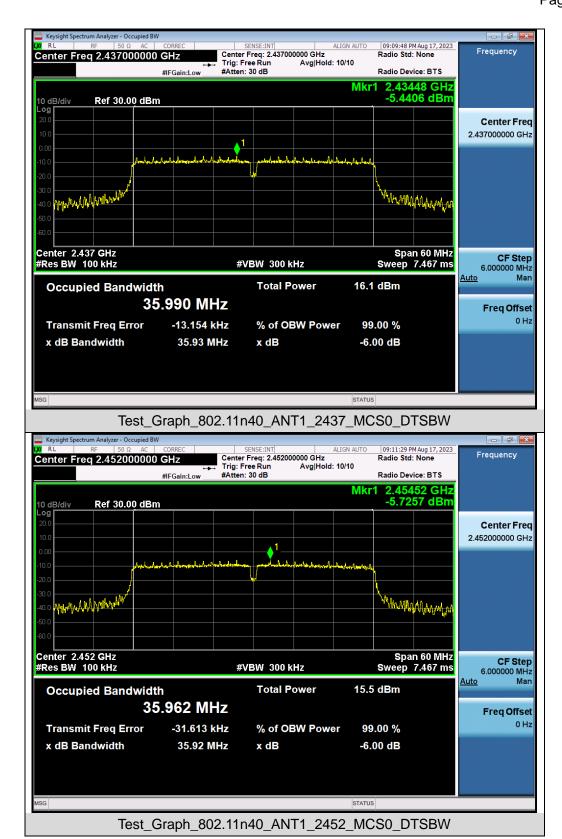














## 9. CONDUCTED SPURIOUS EMISSION

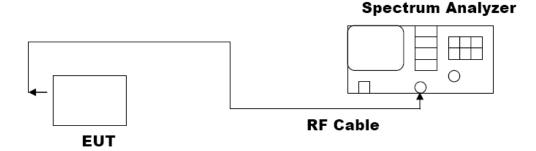
#### 9.1 MEASUREMENT LIMIT

| Limits and Measurement Result  |  |          |  |  |
|--|--|----------|--|--|
| Applicable Limite  | Measurement Result   |          |  |  |
| Applicable Limits  | Test Data  | Criteria |  |  |
| In any 100 kHz Bandwidth Outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produce by the intentional radiator shall be at least 20 dB below that in 100KHz bandwidth within the band that contains the highest | At least -20dBc than the limit<br>Specified on the Bottom<br>Channel | PASS     |  |  |
| level of the desired power.  In addition, radiation 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))   | At least -20dBc than the limit<br>Specified on the Top Channel       | PASS     |  |  |

#### 9.2 MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through.
- 2. Set the EUT Work on the top, the Middle and the bottom operation frequency individually.
- 3. Set the Span = wide enough to capture the peak level of the in-band emission and all spurious emissions from the lowest frequency generated in the EUT up through the 10th harmonic.
- 4. RBW = 100 kHz; VBW= 300 kHz; Sweep = auto; Detector function = peak.(Test frequency below 1GHz)
- 5. RBW = 1 MHz; VBW= 3 MHz; Sweep = auto; Detector function = peak.(Test frequency Above 1GHz)
- 6. Set SPA Trace 1 Max hold, then View.
- 7. Mark the maximum useless stray point and compare it with the limit value to record the result.

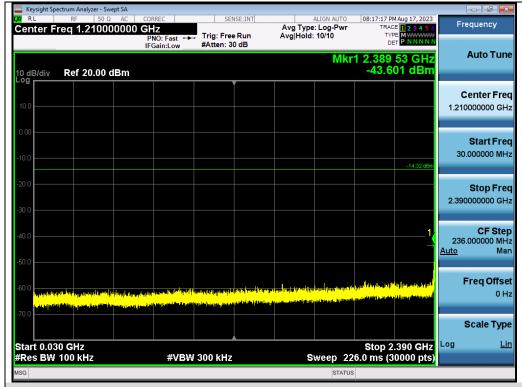
## 9.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)





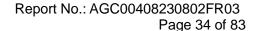
#### 9.4 MEASUREMENT RESULTS

## Test Graphs of Spurious Emissions in Non-Restricted Frequency Bands



## Test\_Graph\_802.11b\_ANT1\_2412\_1Mbps\_Lower Band Emissions

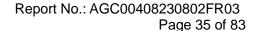




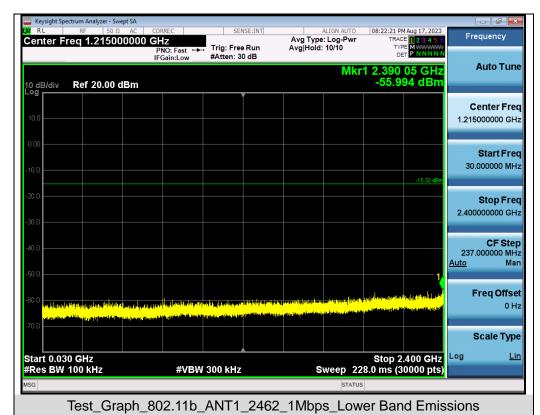


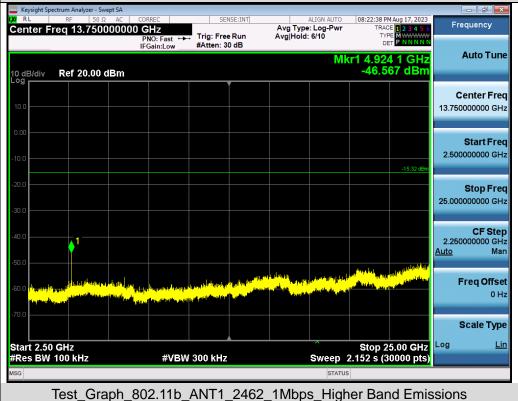


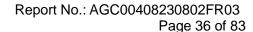




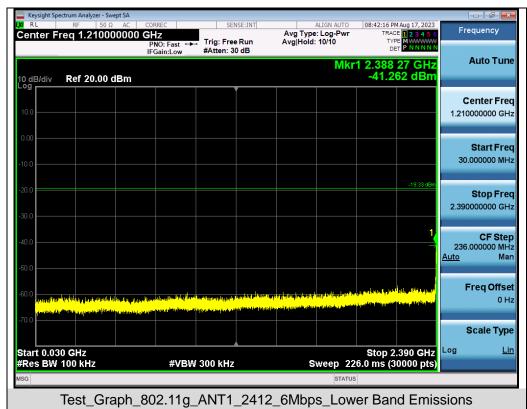




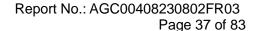




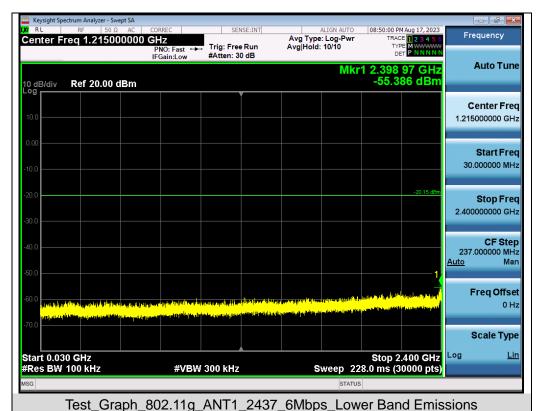




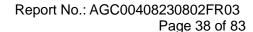












2.250000000 GHz

Freq Offset 0 Hz

Scale Type

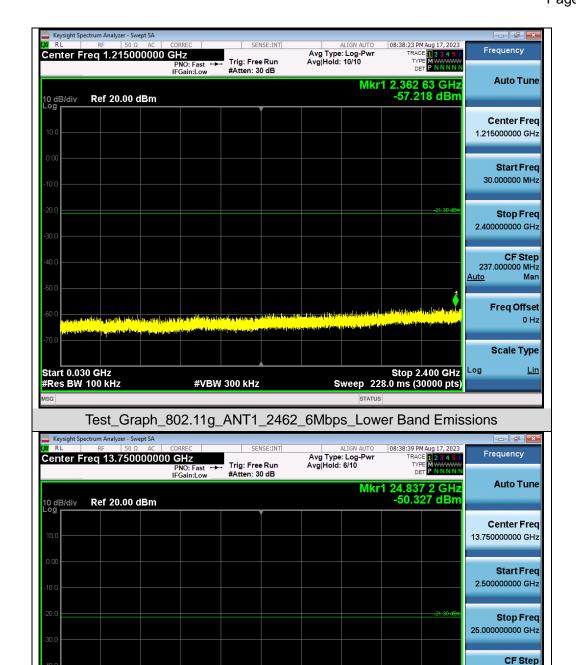
Mar

<u>Auto</u>

Log

Stop 25.00 GHz Sweep 2.152 s (30000 pts)



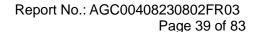


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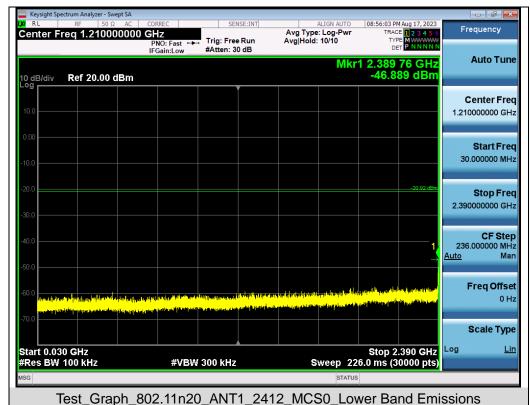
Test\_Graph\_802.11g\_ANT1\_2462\_6Mbps\_Higher Band Emissions

#VBW 300 kHz

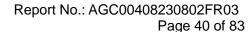
Start 2.50 GHz #Res BW 100 kHz



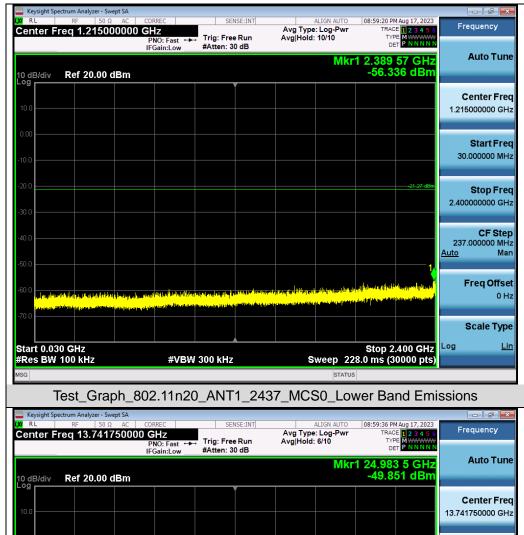




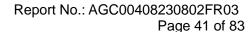








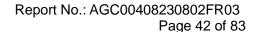




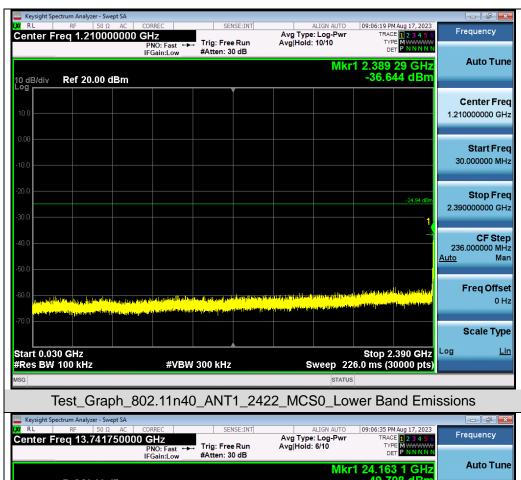




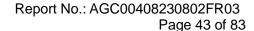




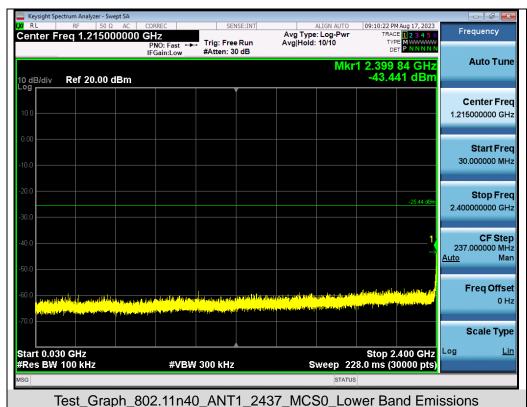




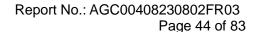




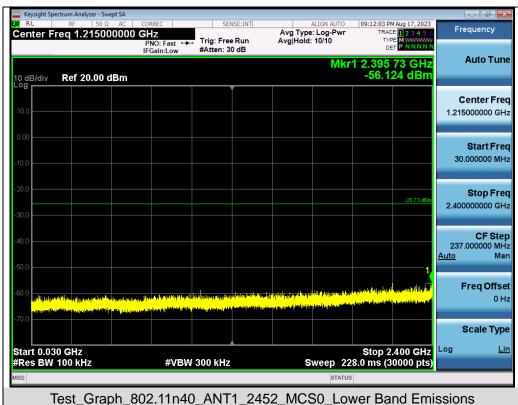




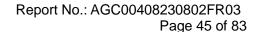






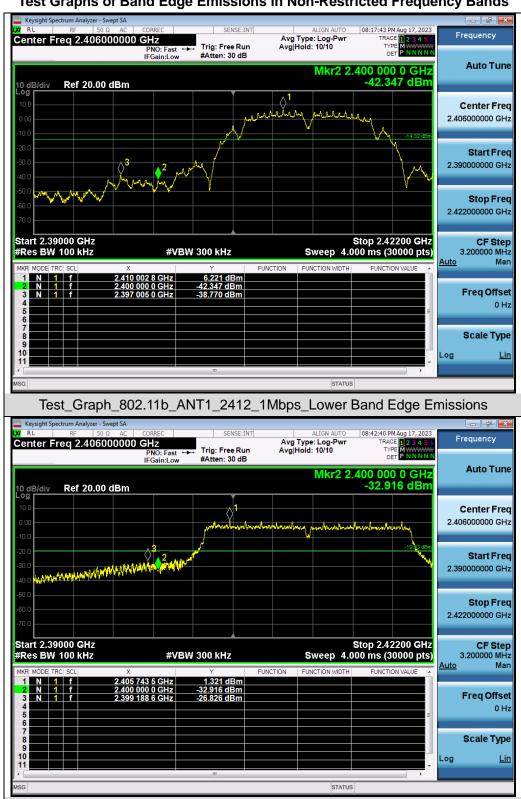








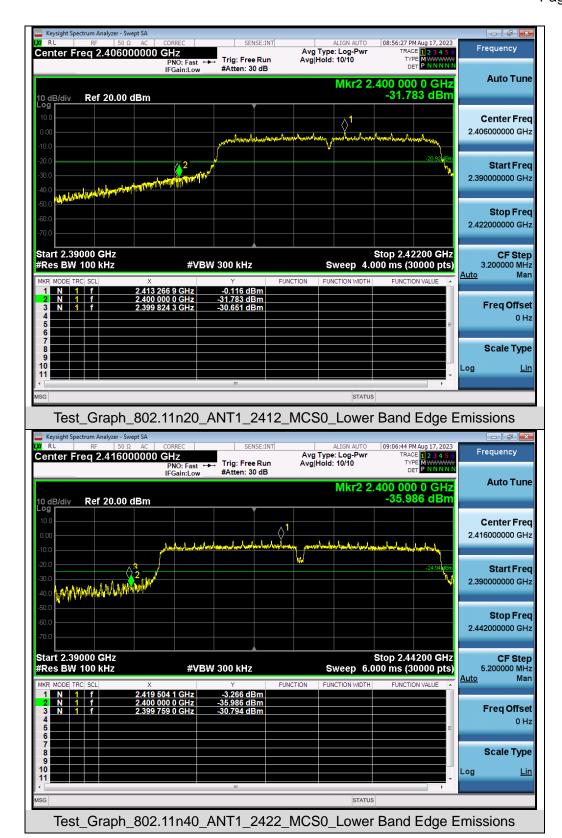
### Test Graphs of Band Edge Emissions in Non-Restricted Frequency Bands



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Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_Lower Band Edge Emissions





Note: Emissions from 2483.5-2500MHz which fall in the restricted bands had been considered with the radiated emission limits specified.

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### 10. POWER SPECTRAL DENSITY

#### **10.1 MEASUREMENT LIMITS**

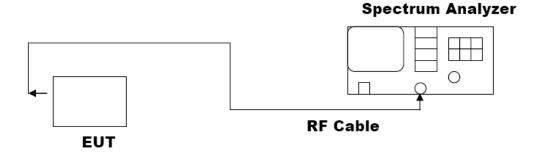
The transmitter power spectral density conducted from the transmitter to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

#### **10.2 MEASUREMENT PROCEDURE**

- 1. The testing follows the ANSI C63.10 Section 11.10.2 Method PKPSD.
- 2. Connect EUT RF output port to the Spectrum Analyzer through.
- 3. Set the RBW = 20 kHz.
- 4. Set the VBW  $\geq$  [3 x RBW].
- 5. Set the Span ≥ [1.5 × DTS bandwidth].
- 6. Sweep time=Auto couple.
- 7. Detector function=Peak.
- 8. Trace Mode=Max hold.
- 9. When the measurement bandwidth of Maximum PSD is specified in 3 kHz, add a constant factor 10\*log(3kHz/20kHz) = -8.23 dB to the measured result.
- 10. Allow trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission.
- 11. The indicated level is the peak output power, after any corrections for external attenuators and cables.
- For Average power spectral density test:
- 1. The testing follows the ANSI C63.10 Section 11.10.5 Method AVPSD.
- 2. Connect EUT RF output port to the Spectrum Analyzer through.
- 3. Set Span to at least 1.5 times the OBW.
- 4. Set RBW to:3 kHz  $\leq$  RBW  $\leq$  100 kHz.
- Set VBW≥[3xRBW].
- 6. Sweep Time=Auto couple.
- 7. Detector function=RMS (i.e., power averaging).
- 8. Trace average at least 100 traces in power averaging (rms) mode.
- When the measurement bandwidth of Maximum PSD is specified in 3 kHz, add a constant factor 10\*log(3kHz/20kHz) = -8.23 dB to the measured result.
- 10. Determine according to the duty cycle of the equipment: when it is less than 98%, follow the steps below.
- 11. Add [10 log (1 / D)], where D is the duty cycle, to the measured power to compute the average power during the actual transmission times (because the measurement represents an average over both the ON and OFF times of the transmission). For example, add [10 log (1/0.25)] = 6 dB if the duty cycle is 25%.
- 12. Record the test results in the report.



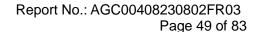
# 10.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)



#### **10.4 MEASUREMENT RESULT**

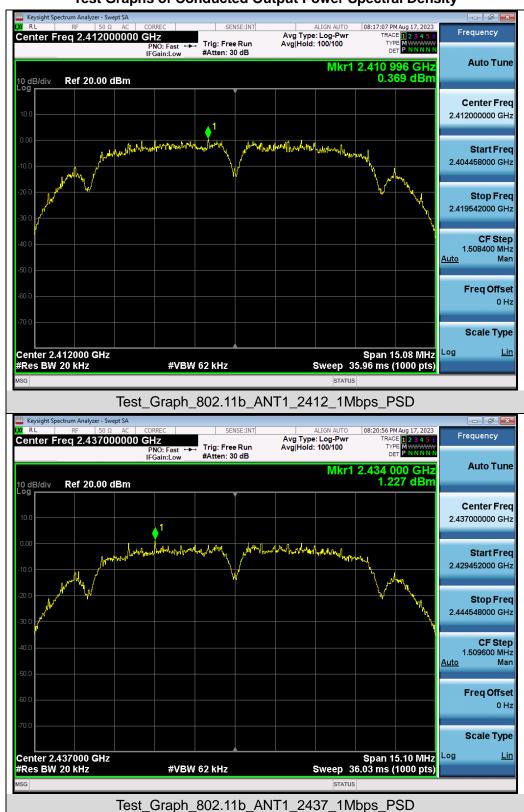
|           | Test Data of Conducted Output Power Spectral Density |         |         |                     |              |  |  |  |
|-----------|--|---------|---------|---------------------|--------------|--|--|--|
| Test Mode | Test Channel<br>(MHz)                                |         |         | Limit<br>(dBm/3kHz) | Pass or Fail |  |  |  |
|           | 2412   | 0.369   | -7.87   | ≤8                  | Pass         |  |  |  |
| 802.11b   | 2437   | 1.227   | -7.012  | ≤8                  | Pass         |  |  |  |
|           | 2462   | 0.525   | -7.714  | ≪8                  | Pass         |  |  |  |
|           | 2412   | -3.482  | -11.721 | ≤8                  | Pass         |  |  |  |
| 802.11g   | 2437   | -4.676  | -12.915 | ≤8                  | Pass         |  |  |  |
|           | 2462   | -5.613  | -13.852 | ≪8                  | Pass         |  |  |  |
|           | 2412   | -6.298  | -14.537 | ≤8                  | Pass         |  |  |  |
| 802.11n20 | 2437   | -7.249  | -15.488 | ≤8                  | Pass         |  |  |  |
|           | 2462   | -7.059  | -15.298 | ≤8                  | Pass         |  |  |  |
|           | 2422   | -9.730  | -17.969 | ≤8                  | Pass         |  |  |  |
| 802.11n40 | 2437   | -10.148 | -18.387 | ≤8                  | Pass         |  |  |  |
|           | 2452   | -10.864 | -19.103 | ≤8                  | Pass         |  |  |  |

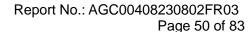
Note: Power density(dBm/3kHz) = Power density(dBm/20kHz) - 10\*log(20/3).



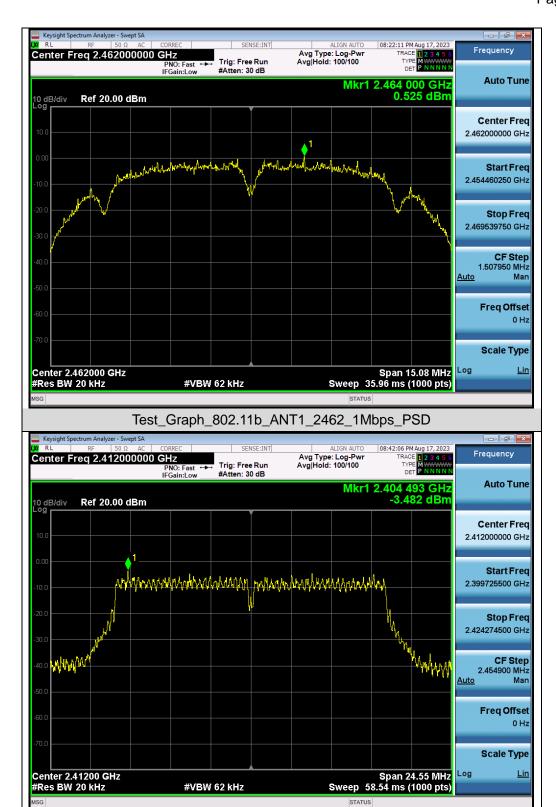


### **Test Graphs of Conducted Output Power Spectral Density**

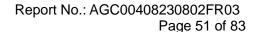




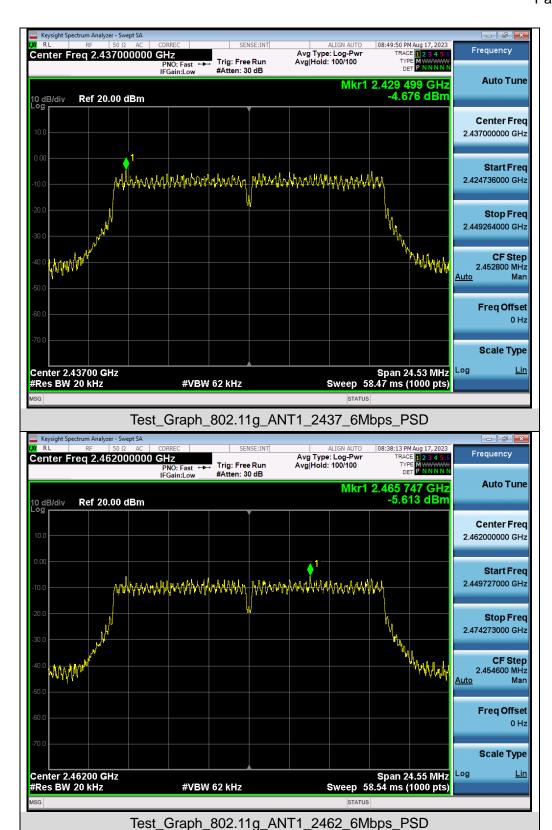


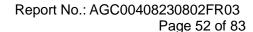


Test\_Graph\_802.11g\_ANT1\_2412\_6Mbps\_PSD









Log

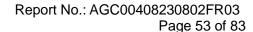




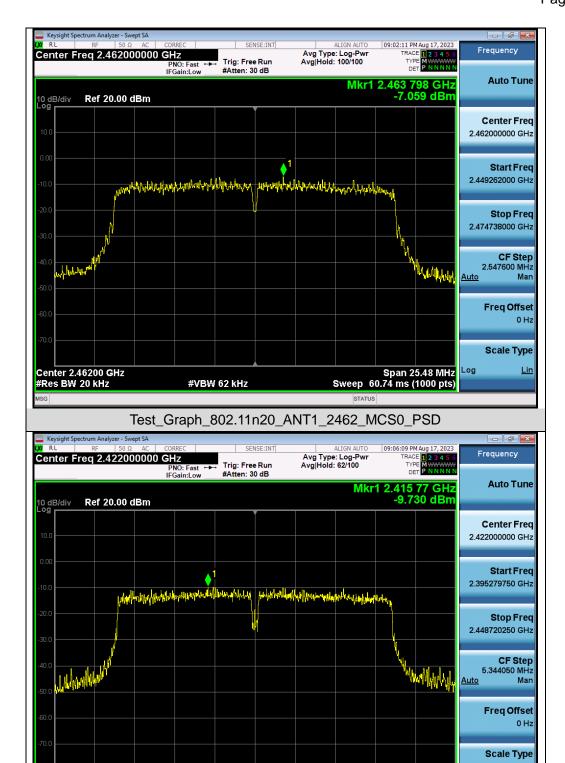
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Test\_Graph\_802.11n20\_ANT1\_2437\_MCS0\_PSD

#VBW 62 kHz







Test\_Graph\_802.11n40\_ANT1\_2422\_MCS0\_PSD

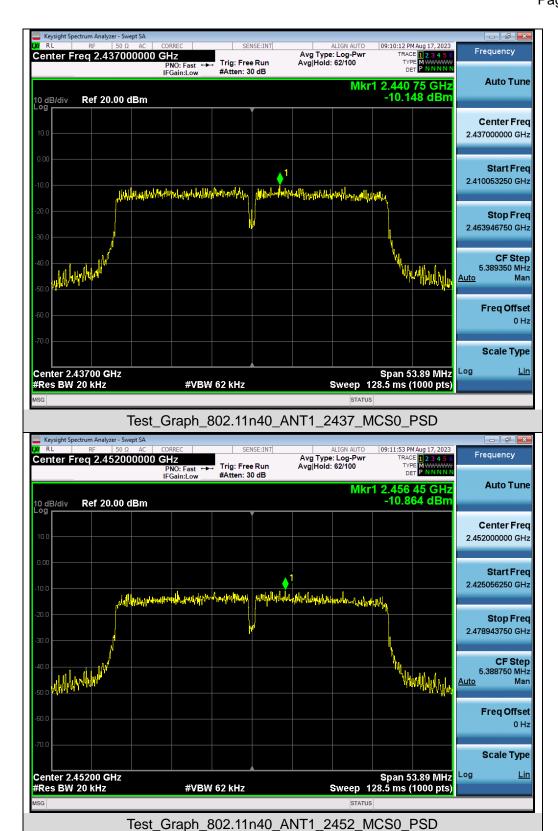
#VBW 62 kHz

Span 53.44 MHz Sweep 127.4 ms (1000 pts)

Log

Center 2.42200 GHz #Res BW 20 kHz







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#### 11. RADIATED EMISSION

#### 11.1 MEASUREMENT LIMITS

15.209(a) Limit in the below table has to be followed

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

Note: All modes were tested for restricted band radiated emission, the test records reported below are the worst result compared to other modes.

#### 11.2 MEASUREMENT PROCEDURE

- The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emission, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3MHz VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds.



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As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.

- 8. If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

The following table is the setting of spectrum analyzer and receiver.

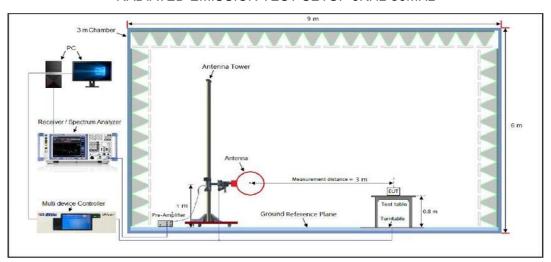
| Spectrum Parameter    | Setting                                   |
|-----------------------|---|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP               |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP               |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP            |
| Start Stan Fraguency  | 1GHz~26.5GHz                              |
| Start ~Stop Frequency | 1MHz/3MHz for Peak, 1MHz/3MHz for Average |

| Receiver Parameter    | Setting                        |
|-----------------------|--------------------------------|
| Start ~Stop Frequency | 9KHz~150KHz/RB 200Hz for QP    |
| Start ~Stop Frequency | 150KHz~30MHz/RB 9KHz for QP    |
| Start ~Stop Frequency | 30MHz~1000MHz/RB 120KHz for QP |

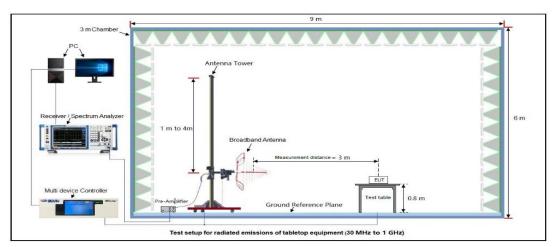


### 11.3 MEASUREMENT SETUP (BLOCK DIAGRAM OF CONFIGURATION)

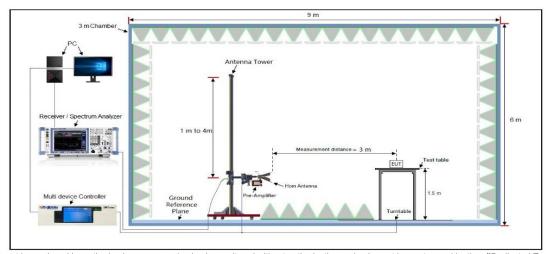
### RADIATED EMISSION TEST SETUP 9KHz-30MHz



# RADIATED EMISSION TEST SETUP 30MHz-1000MHz



### RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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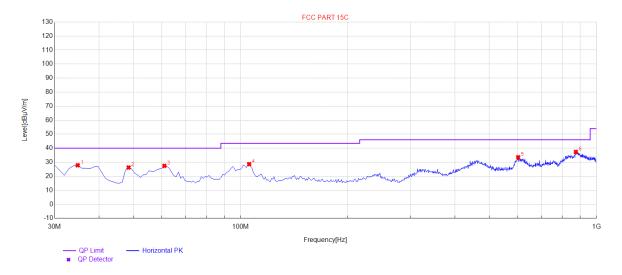
#### 11.4 MEASUREMENT RESULT

#### Radiated emission below 30MHz

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

#### Radiated emission from 30MHz to 1000MHz

| EUT         | 4G Smart Phone       | Model Name        | AGM_H6         |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25°C                 | Relative Humidity | 58%            |
| Pressure    | 960hPa               | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with 2412MHz | Antenna           | Horizontal     |

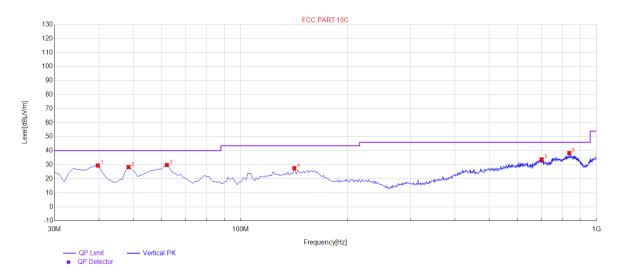


| NO. | Freq.<br>[MHz] | Level<br>[dBµV/m] | Factor<br>[dB] | Limit<br>[dBµV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity   |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|------------|
| 1   | 34.85          | 27.84             | 11.08          | 40.00             | 12.16          | 100            | 290          | Horizontal |
| 2   | 48.43          | 26.25             | 10.78          | 40.00             | 13.75          | 100            | 90           | Horizontal |
| 3   | 61.04          | 27.40             | 12.75          | 40.00             | 12.60          | 100            | 250          | Horizontal |
| 4   | 105.66         | 28.61             | 18.70          | 43.50             | 14.89          | 100            | 170          | Horizontal |
| 5   | 602.3          | 33.55             | 28.64          | 46.00             | 12.45          | 100            | 40           | Horizontal |
| 6   | 874.87         | 37.38             | 32.43          | 46.00             | 8.62           | 100            | 240          | Horizontal |

# **RESULT: PASS**



| EUT         | 4G Smart Phone       | Model Name        | AGM_H6         |
|-------------|----------------------|-------------------|----------------|
| Temperature | 25°C                 | Relative Humidity | 58%            |
| Pressure    | 960hPa               | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with 2412MHz | Antenna           | Vertical       |

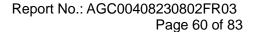


| NO. | Freq.<br>[MHz] | Level<br>[dBµV/m] | Factor<br>[dB] | Limit<br>[dBµV/m] | Margin<br>[dB] | Height<br>[cm] | Angle<br>[°] | Polarity |
|-----|----------------|-------------------|----------------|-------------------|----------------|----------------|--------------|----------|
| 1   | 39.7           | 29.45             | 11.67          | 40.00             | 10.55          | 100            | 0            | Vertical |
| 2   | 48.43          | 28.34             | 13.07          | 40.00             | 11.66          | 100            | 10           | Vertical |
| 3   | 62.01          | 29.80             | 14.64          | 40.00             | 10.20          | 100            | 260          | Vertical |
| 4   | 141.55         | 27.53             | 20.04          | 43.50             | 15.97          | 100            | 90           | Vertical |
| 5   | 701.24         | 33.78             | 28.96          | 46.00             | 12.22          | 100            | 40           | Vertical |
| 6   | 838.01         | 38.33             | 32.44          | 46.00             | 7.67           | 100            | 270          | Vertical |

# **RESULT: PASS**

**Note:** 1. Factor=Antenna Factor + Cable loss, Margin=Limit-Measurement.

- 2. The "Factor" value can be calculated automatically by software of measurement system.
- 3. All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.





### Radiated emission above 1GHz

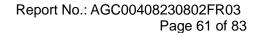
| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2412MHz | Antenna           | Horizontal     |

| Frequency   | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |  |
|---|---------------|--------|----------------|----------|--------|------------|--|
| (MHz)   | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |  |
| 4824.000  | 51.23         | 0.08   | 51.31          | 74.00    | -22.69 | peak       |  |
| 4824.000  | 41.22         | 0.08   | 41.30          | 54.00    | -12.70 | AVG        |  |
| 7236.000  | 48.03         | 2.21   | 50.24          | 74.00    | -23.76 | peak       |  |
| 7236.000  | 41.11         | 2.21   | 43.32          | 54.00    | -10.68 | AVG        |  |
|   |               |        |                |          |        |            |  |
| Remark:   |               |        |                |          |        |            |  |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |  |

| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2412MHz | Antenna           | Vertical       |

| Frequency   | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Type |  |  |
|---|---------------|--------|----------------|----------|--------|------------|--|--|
| (MHz)   | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | value Type |  |  |
| 4824.000  | 49.35         | 0.08   | 49.43          | 74.00    | -24.57 | peak       |  |  |
| 4824.000  | 40.39         | 0.08   | 40.47          | 54.00    | -13.53 | AVG        |  |  |
| 7236.000  | 47.77         | 2.21   | 49.98          | 74.00    | -24.02 | peak       |  |  |
| 7236.000  | 40.51         | 2.21   | 42.72          | 54.00    | -11.28 | AVG        |  |  |
|   |               |        |                |          |        |            |  |  |
| Remark:   |               |        |                |          |        |            |  |  |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |  |  |

# **RESULT: PASS**





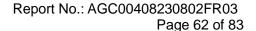
| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2437MHz | Antenna           | Horizontal     |

| Frequency      | Meter Reading   | Factor | Emission Level | Limits   | Margin | Value Tune |
|----------------|---|--------|----------------|----------|--------|------------|
| (MHz)          | (dBµV)  | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |
| 4874.000       | 49.63   | 0.14   | 49.77          | 74.00    | -24.23 | peak       |
| 4874.000       | 38.11   | 0.14   | 38.25          | 54.00    | -15.75 | AVG        |
| 7311.000       | 48.74   | 2.36   | 51.10          | 74.00    | -22.90 | peak       |
| 7311.000       | 35.25   | 2.36   | 37.61          | 54.00    | -16.39 | AVG        |
|                |   |        |                |          |        |            |
| Remark:        |   |        |                |          |        |            |
| Factor = Anten | Factor = Antenna Factor + Cable Loss – Pre-amplifier. |        |                |          |        |            |

| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2437MHz | Antenna           | Vertical       |

| Frequency      | Meter Reading  | Factor | Emission Level | Limits   | Margin | Value Type |
|----------------|--|--------|----------------|----------|--------|------------|
| (MHz)          | (dBµV)   | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |
| 4874.000       | 50.21  | 0.14   | 50.35          | 74.00    | -23.65 | peak       |
| 4874.000       | 39.52  | 0.14   | 39.66          | 54.00    | -14.34 | AVG        |
| 7311.000       | 47.33  | 2.36   | 49.69          | 74.00    | -24.31 | peak       |
| 7311.000       | 36.12  | 2.36   | 38.48          | 54.00    | -15.52 | AVG        |
|                |  |        |                |          |        |            |
|                |  |        |                |          |        |            |
| Remark:        |  |        |                |          |        |            |
| Factor = Anter | actor = Antenna Factor + Cable Loss – Pre-amplifier. |        |                |          |        |            |

# **RESULT: PASS**





| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2462MHz | Antenna           | Horizontal     |

| Frequency   | Meter Reading | Factor | Emission Level | Limits   | Margin | Value Tune |  |
|---|---------------|--------|----------------|----------|--------|------------|--|
| (MHz)   | (dBµV)        | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |  |
| 4924.000  | 52.01         | 0.22   | 52.23          | 74.00    | -21.77 | peak       |  |
| 4924.000  | 43.33         | 0.22   | 43.55          | 54.00    | -10.45 | AVG        |  |
| 7386.000  | 51.22         | 2.64   | 53.86          | 74.00    | -20.14 | peak       |  |
| 7386.000  | 39.52         | 2.64   | 42.16          | 54.00    | -11.84 | AVG        |  |
|   |               |        |                |          |        |            |  |
| Remark:   |               |        |                |          |        |            |  |
| Factor = Antenna Factor + Cable Loss – Pre-amplifier. |               |        |                |          |        |            |  |

| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 58%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2462MHz | Antenna           | Vertical       |

| Frequency      | Meter Reading   | Factor | Emission Level | Limits   | Margin | Value Type |  |
|----------------|---|--------|----------------|----------|--------|------------|--|
| (MHz)          | (dBµV)  | (dB)   | (dBµV/m)       | (dBµV/m) | (dB)   | Value Type |  |
| 4924.000       | 49.63   | 0.22   | 49.85          | 74.00    | -24.15 | peak       |  |
| 4924.000       | 39.52   | 0.22   | 39.74          | 54.00    | -14.26 | AVG        |  |
| 7386.000       | 49.16   | 2.64   | 51.80          | 74.00    | -22.20 | peak       |  |
| 7386.000       | 35.69   | 2.64   | 38.33          | 54.00    | -15.67 | AVG        |  |
|                |   |        |                |          |        |            |  |
| Remark:        | Remark:   |        |                |          |        |            |  |
| Factor = Anter | Factor = Antenna Factor + Cable Loss – Pre-amplifier. |        |                |          |        |            |  |

### **RESULT: PASS**

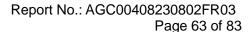
#### Note:

The amplitude of other spurious emissions from 1G to 25 GHz which are attenuated more than 20 dB below the permissible value need not be reported.

Factor = Antenna Factor + Cable loss - Amplifier gain, Over= Limit-Measure.

The "Factor" value can be calculated automatically by software of measurement system.

All test modes had been pre-tested. The 802.11b mode is the worst case and recorded in the report.





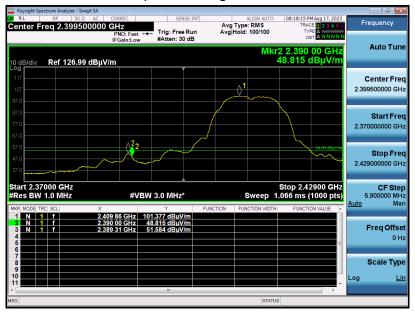
### Test result for band edge emission at restricted bands

| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 60%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2412MHz | Antenna           | Horizontal     |

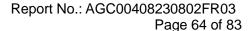
### Test Graph for Peak Measurement



# Test Graph for Average Measurement



### **RESULT: PASS**





| EUT         | 4G Smart Phone                   | Model Name        | AGM_H6         |
|-------------|----------------------------------|-------------------|----------------|
| Temperature | 25°C                             | Relative Humidity | 60%            |
| Pressure    | 960hPa                           | Test Voltage      | Normal Voltage |
| Test Mode   | 802.11b with date rate 1_2412MHz | Antenna           | Vertical       |

Test Graph for Peak Measurement



Test Graph for Average Measurement



# **RESULT: PASS**