

Address

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FCC TEST REPORT

Client Name : General Procurement, Inc

800 E Dyer Road, Santa Ana, California, United States

92705

Product Name : Hyundai Koral_8W2

Date : Apr. 17, 2019

Shenzhen Anbotek Compliance Laboratory Limited



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TEST REPORT

Applicant : General Procurement, Inc

Manufacturer : Shen Zhen Cheng Fong Digital-Tech Limited

Product Name : Hyundai Koral 8W2

Model No. : Koral_8W2

Trade Mark : Hyundai

Rating(s)

Input: DC 5V, 2A(Via adapter Input: AC 100~240V, 50/60Hz, 0.35A; with DC

3.7V, 3500mAh Battery inside)

Test Standard(s) : FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) : ANSI C63.10: 2013, KDB558074 D01 DTS Meas Guidance v05

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

| Date of Receipt | Mar. 20, 2019 |
|-----------------------------------|--|
| Date of Test | Mar. 20~Apr. 10, 2019 |
| Date of Test Compliance Anbotek | |
| Product Salety | alivau larg |
| Product Safety | Andrew Andrew |
| Prepared by *Approved* | botek Ant tok botek Anbo |
| botek Anbotek Anbote | (Engineer / Oliay Yang) |
| | Anbo ak tek above Ano tek |
| | Snavy Meng |
| | Snavy Mery |
| Reviewer | And tek nbotek |
| ek anboter And ak notek Ant | (Supervisor / Snowy Meng) |
| botek Anbotek Anbotek Anbotek | (Supervisor / Snowy Meng) |
| | Sally Zhong |
| Approved 9 Authorized Cignor | Swiff 20. |
| Approved & Authorized Signer | Mulps August Aug |
| | (Manager / Sally Zhang) |
| | |

Shenzhen Anbotek Compliance Laboratory Limited





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1. General Information

1.1. Client Information

| Applicant | : | General Procurement, Inc |
|--------------|---|--|
| Address | : | 800 E Dyer Road , Santa Ana, California, United States 92705 |
| Manufacturer | : | Shen Zhen Cheng Fong Digital-Tech Limited |
| Address | : | Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China |
| Manufacturer | : | Shen Zhen Cheng Fong Digital-Tech Limited |
| Address | : | Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China |

1.2. Description of Device (EUT)

| Product Name | : Hyundai Koral_ | _8W2 | | | | | |
|---------------------|------------------|---|--|--|--|--|--|
| Model No. | : Koral_8W2 | Anbotek Anbotek Anbotek Anbotek Anbotek | | | | | |
| Trade Mark | : Hyundai | Anbotek Anbotek Anbotek Anbotek Anbotek | | | | | |
| Test Power Supply | 181 | C 120V, 60Hz for adapter / AC 240V, 60Hz for adapter/ C 3.7V Battery inside | | | | | |
| Test Sample No. | : 1-2-1(Normal S | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) | | | | | |
| | Operation Fred | BT: 2402~2480MHz quency: 2.4G Wifi: 802.11b/ g/ n(HT20) 2412-2462MHz 802.11n(HT40) 2422-2452MHz | | | | | |
| s. | Transfer Rate: | BT 4.1 EDR: 1/2/3 Mbits/s BT 4.1 BLE: 1 Mbits/s | | | | | |
| Product Description | Number of Cha | BT 4.1 EDR: 79 Channels BT 4.1 BLE: 40 Channels 2.4G Wifi: 11 Channels for 802.11b/ g/ n(HT20) 7 Channels for 802.11n(HT40) | | | | | |
| | Modulation Typ | BT 4.1 EDR: GFSK, π/4-DQPSK, 8-DPSK De: BT 4.1 BLE: GFSK 2.4G Wifi: 802.11b CCK; 802.11g/n OFDM | | | | | |
| | Antenna Type: | PIFA Antenna | | | | | |
| | Antenna Gain(| Peak): 1.1 dBi | | | | | |

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Remark: 1)For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.

2) This report is for Wifi 2.4G module.



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1.3. Auxiliary Equipment Used During Test

| e | Adapter | : | MODEL: JHD-AP013U-050200BB-B | otek | Anbotek | Anbor | by. |
|---|---------|---|---------------------------------|------|---------|--------|-----|
| | | | INPUT: 100-240V~ 50/60Hz, 0.35A | | | | Anz |
| 0 | | | Output: DC 5V, 2000mA | | | abotek | PL |

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

RADIATED EMISSION TEST (BELOW 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| Mode | Available Channel | Test Channel | Modulation Tech. | Modulation Type | Data Rate (Mbps) |
|---------|----------------------|--------------|------------------|-----------------|---------------------|
| 802.11b | 1 to 11 | Anbote L | CCK | DBPSK | 1.0 |

For the test results, only the worst case was shown in test report.

RADIATED EMISSION TEST (ABOVE 1GHz):

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis and antenna ports (if EUT with antenna diversity

Following channel(s) was (were) selected for the final test as listed below.

| Mode | Mode Available Channel | | | | Modulation Tech. | Modulation Type | Data Rate (Mbps) | |
|--------------|------------------------|----------|------|-------|--------------------------|-----------------|---------------------|--|
| 802.11b | nbote 1 to 11 mbo | 1, 6, 11 | CCK | DBPSK | 1.0 | | | |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | ek 6.0 _{knbote} | | | |
| 802.11n HT20 | 1 to 11 | 1, 6, 11 | OFDM | BPSK | notek 6.5 Anb | | | |
| 802.11n HT40 | 3 to 9 | 3, 6, 9 | OFDM | BPSK | 13.5 | | | |

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

| Mode | Mode Available Channel | | Test Channel Modulation Tech. | | Data Rate (Mbps) | |
|--------------|------------------------|----------|-------------------------------|-------|---------------------|--|
| 802.11b | 1 to 11 | 1, 6, 11 | CCK | DBPSK | botek 1.0 Anbi | |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 | |
| 802.11n HT20 | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.5 | |
| 802.11n HT40 | 3 to 9 | 3, 6, 9 | OFDM | BPSK | 13.5 | |

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BANDEDGE MEASUREMENT:

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| Mode Available Channel | | | | Modulation Type | Data Rate (Mbps) | |
|------------------------|---------|-------|------|-----------------|---------------------|--|
| 802.11b | 1 to 11 | 1, 11 | CCK | DBPSK | 1.0 | |
| 802.11g | 1 to 11 | 1, 11 | OFDM | BPSK | 6.0 | |
| 802.11n HT20 | 1 to 11 | 1, 11 | OFDM | BPSK | 6.5 M | |
| 802.11n HT40 | 3 to 9 | 3, 9 | OFDM | BPSK | 13.5 | |

ANTENNA PORT CONDUCTED MEASUREMENT:

This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

Following channel(s) was (were) selected for the final test as listed below.

| Mode | Available Channel | Test Channel | Modulation Tech. | Modulation Type | Data Rate (Mbps) |
|--------------|----------------------|--------------|------------------|--------------------|---------------------|
| 802.11b | 1 to 11 | 1, 6, 11 | CCK | DBPSK | 1.0 |
| 802.11g | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.0 |
| 802.11n HT20 | 1 to 11 | 1, 6, 11 | OFDM | BPSK | 6.5 |
| 802.11n HT40 | 3 to 9 | 3,6, 9 | OFDM | BPSK | 13.5 |

1.5. List of channels

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|----------|----------------|--------------|----------------|-------------|----------------|---------|----------------|
| 01 | 2412 | 04 | 2427 | 07 | 2442 | 10 more | 2457 |
| 02 | 2417 | otek 05 Anbo | 2432 | 10d 10d 10d | 2447 | 11 | 2462 |
| ode 03 M | 2422 | 06 | 2437 | 09 | 2452 | | |



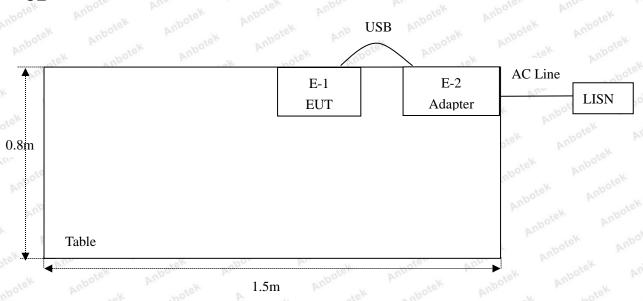
Report No.: SZAWW190320006-03

FCC ID: 2AIOHHT0802W16

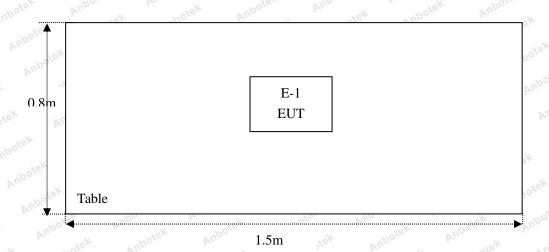
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1.6. Description Of Test Setup

CE



RF



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1.7. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. |
|--------------------|---------------------------------------|-------------------------|------------------|-----------------|---------------|---------|
| 00 | L.I.S.N. | (en Anbe | | pore Am | N 0 | Interva |
| nb 1 tek | Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | Nov. 05, 2018 | 1 Year |
| 2. | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 101604 | Nov. 05, 2018 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Nov. 05, 2018 | 1 Year |
| 4. | Spectrum Analysis | Agilent | E4407B | US39390582 | Nov. 05, 2018 | 1 Year |
| 5. | MAX Spectrum Analysis | Agilent | N9020A | MY51170037 | Nov. 05, 2018 | 1 Year |
| 6. | Preamplifier | SKET Electronic | BK1G18G30D | KD17503 | Nov. 05, 2018 | 1 Year |
| 7. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Nov. 20, 2018 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Nov. 19, 2018 | 1 Year |
| 9.00 | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Nov. 20, 2018 | 1 Year |
| 10.00 | Horn Antenna | A-INFO | LB-180400-K F | J211060628 | Nov. 20, 2018 | 1 Year |
| 11. | Pre-amplifier | SONOMA | 310N | 186860 | Nov. 05, 2018 | 1 Year |
| 12. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A wotek | N/A |
| ,13. ¹⁸ | RF Test Control System | YIHENG | YH3000 | 2017430 | Nov. 05, 2018 | 1 Year |
| 14. | Power Sensor | DAER | RPR3006W | 15I00041SN045 | Nov. 05, 2018 | 1 Year |
| 15. | Power Sensor | DAER | RPR3006W | 15I00041SN046 | Nov. 05, 2018 | 1 Year |
| 16. | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Nov. 05, 2018 | 1 Year |
| A.17. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Nov. 05, 2018 | 1 Year |
| 18. | Signal Generator | Agilent | E4421B | MY41000743 | Nov. 05, 2018 | 1 Year |
| 19. | DC Power Supply | Anboton Anb | TPR-6420D | 374470 | Oct. 31, 2018 | 1 Year |
| 20. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80B | Anbote N/A Anbo | Nov. 01, 2018 | 1 Year |
| 110 | - Vi- | 10 D. 11 | 187 | - D | V V | ALCO |



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1.8. Measurement Uncertainty

| Radiation Uncertainty | : | Ur = 3.9 dB (Horizontal) | nbotek | Anbote | Anbo Motek Anbo |
|------------------------|---|--------------------------|---------|-----------|-----------------|
| | | Ur = 3.8 dB (Vertical) | | Anbore | And botek Ar |
| | | Anboten Anbo | Anbotel | Anbote | ak abotek |
| Conduction Uncertainty | : | Uc = 3.4 dB | k Anb | otek Anbo | tek hin upotek |

1.9. Description of Test Facility

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

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



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2. Summary of Test Results

| Standard Section | Test Item | Result | | |
|------------------|-----------------------------|--------|--|--|
| 15.203/15.247(c) | Antenna Requirement | PASS | | |
| 15.207 | Conducted Emission | PASS | | |
| 15.205/15.209 | Spurious Emission | PASS | | |
| 15.247(b)(3) | Conducted Peak Output Power | PASS | | |
| 15.247(a)(2) | 6dB Occupied Bandwidth | PASS | | |
| 15.247(e) | Power Spectral Density | PASS | | |
| 15.247(d) | Band Edge | PASS | | |



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3. Conducted Emission Test

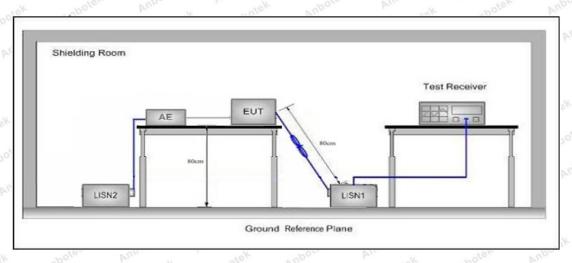
3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.2 | 207 Anbote K Man Motek | | | | | | |
|---------------|-------------------------|--------------------------------|---------------|--|--|--|--|--|
| | Fraguenay | Maximum RF Line Voltage (dBuV) | | | | | | |
| | Frequency | Quasi-peak Level | Average Level | | | | | |
| Test Limit | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | | | | | |
| | 500kHz~5MHz | Anbotek 56 Anbou | 46 de Andrew | | | | | |
| | 5MHz~30MHz | Anbotek 60 Anbo tek | 50 Mbotek | | | | | |

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

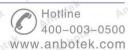
The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

During the test, pre-scan all modes, and found the 802.11b CH01 which is the worst case, only the worst case is recorded in the report.

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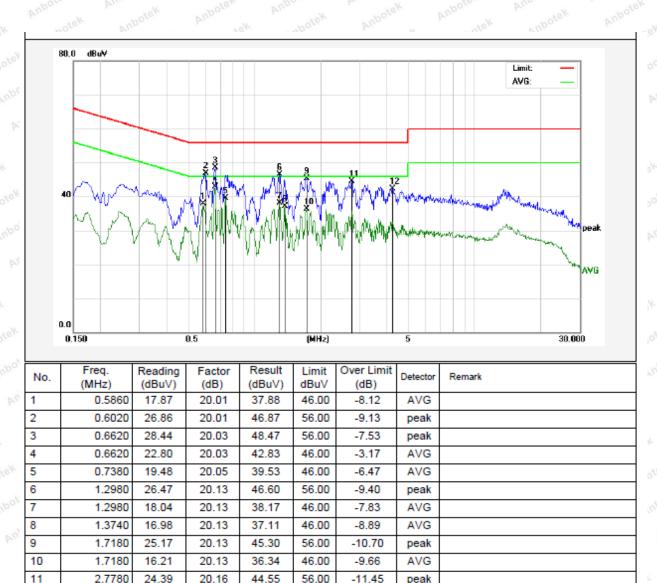
Conducted Emission Test Data

Test Site: 1# Shielded Room 802.11b CH01 **Operating Condition:**

Test Specification: AC 240V for adapter

Comment: Live Line

Tem.: 22.9°C Hum.: 65%



56.00

peak

Code: AB-RF-05-a

400-003-0500 www.anbotek.com

4.2300

20.19



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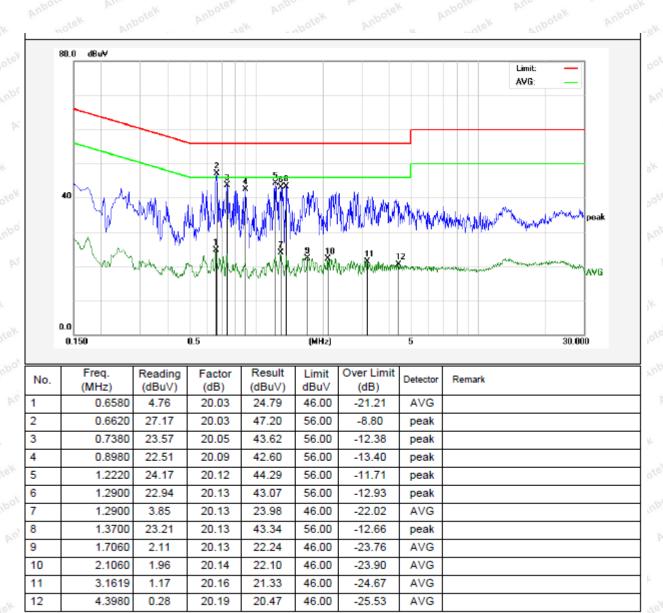
Conducted Emission Test Data

Test Site: 1# Shielded Room **Operating Condition:** 802.11b CH01

Test Specification: AC 240V for adapter

Comment: Neutral Line

Tem.: 22.9℃ Hum.: 65%



Email:service@anbotek.com

Tel:(86)755-26066440 Fax:(86)755-26014772



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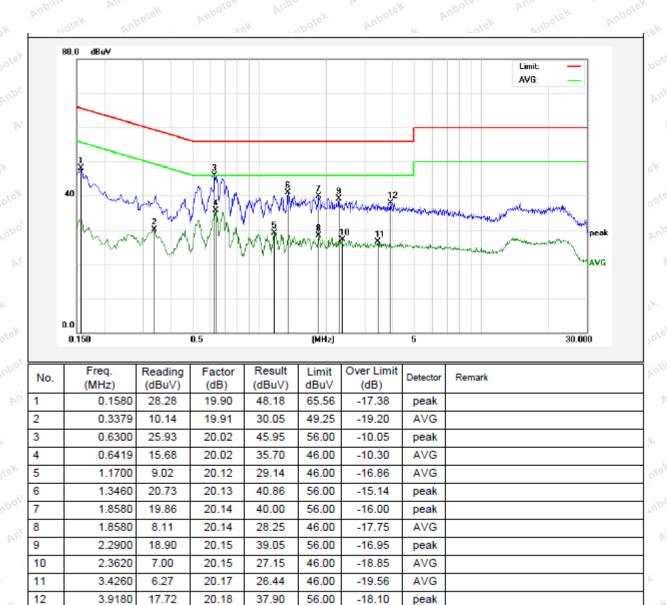
Conducted Emission Test Data

Test Site: 1# Shielded Room 802.11b CH01 **Operating Condition:**

Test Specification: AC 120V for adapter

Comment: Live Line

Tem.: 22.9°C Hum.: 65%



Email:service@anbotek.com



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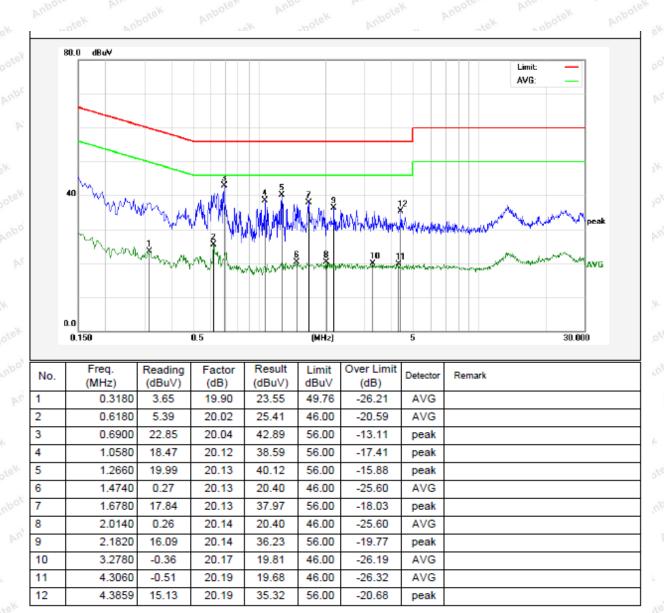
Conducted Emission Test Data

Test Site: 1# Shielded Room **Operating Condition:** 802.11b CH01

Test Specification: AC 120V for adapter

Comment: Neutral Line

Tem.: 22.9°C Hum.: 65%



Email:service@anbotek.com



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4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15 | 5.209 and 15.205 | Anu | Anbotek | Anbore A |
|---------------|-------------------------|----------------------------------|-------------------|------------|--------------------------|
| | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | abotek An | ote. Ann | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | An upotok | Aupoles Au | 30 |
| | 1.705MHz-30MHz | 20 more | anbotek . | Anbotes. | 30 |
| Test Limit | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3 notek |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | ak 3 botek |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1000MUz | 500 | 54.0 | Average | Anboa 3 |
| | Above 1000MHz | Anbotek - Anbote | 74.0 | Peak | Anbo 3 |

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

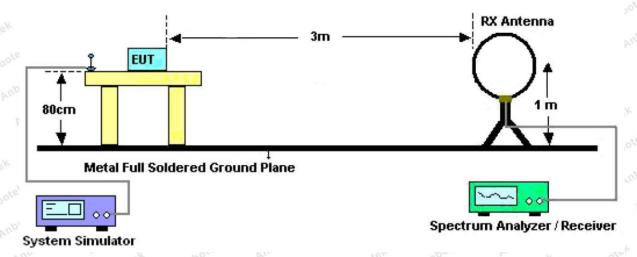


Figure 1. Below 30MHz



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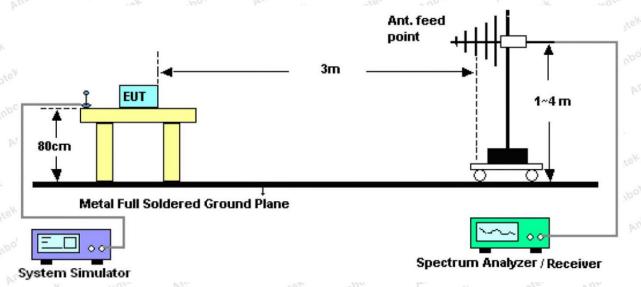


Figure 2. 30MHz to 1GHz

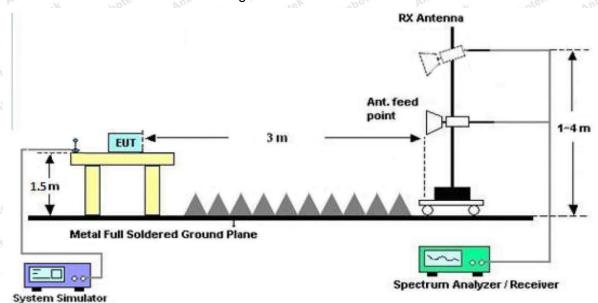


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

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For the radiated emission test above 1GHz:

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.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW =1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW =30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW =300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the X-axis is the worst case.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, pre-scan all modes, and found the 802.11b CH01 which is the worst case, only the worst case is recorded in the report.



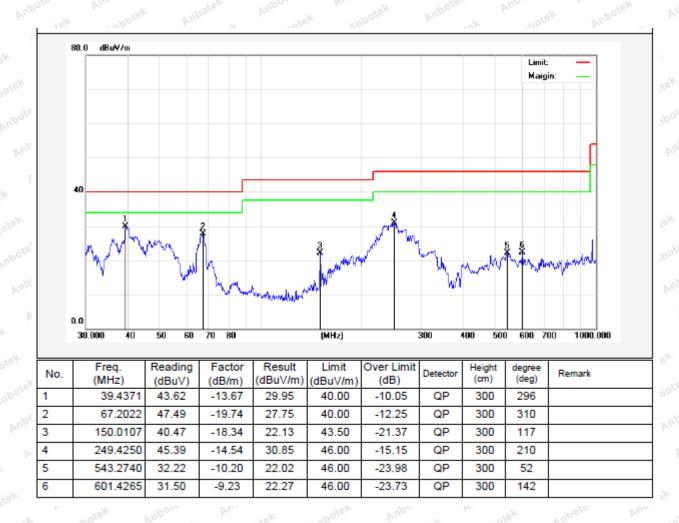
Report No.: SZAWW190320006-03 Page 21 of 63 FCC ID: 2AIOHHT0802W16

Test Results (30~1000MHz)

Job No.: SZAWW190320006-03 Temp.(°C)/Hum.(%RH): 22.5°C/50%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Polarization: Horizontal 802.11b CH01



Code: AB-RF-05-a

400-003-0500 www.anbotek.com



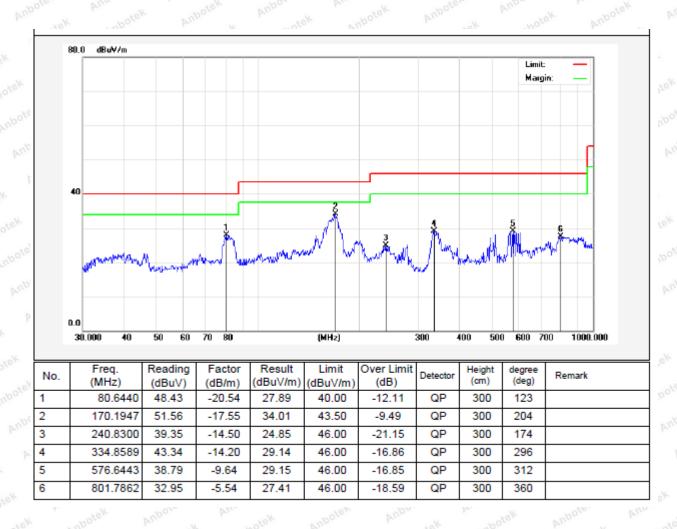
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Test Results (30~1000MHz)

Job No.: SZAWW190320006-03 Temp.(℃)/Hum.(%RH): 22.5℃/50%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: 802.11b CH01 Polarization: Vertical





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Test Results (Above 1000MHz)

| Test Mode: | 802.11b Mod | le | | Test | channel: Low | est | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|--------------------|
| | | | | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824.00 | 40.14 | 34.13 | 6.61 | 34.09 | 46.79 | 74.00 | -27.21 | NpoV ^k |
| 7236.00 | 34.12 | 37.14 | 7.74 | 34.51 | 44.49 | 74.00 | -29.51 | No. |
| 9648.00 | 32.65 | 39.35 | 9.26 | 34.80 | 46.46 | 74.00 | -27.54 | V |
| 12060.00 | ** * | potek | Anbotek | Anbu | Anbotek | 74.00 | Am. | V V |
| 14472.00 | upor * | nbotek | Anbotek | Aup | anbote Anbote | 74.00 | Vok Vu | oteKV |
| 16884.00 | Anbu * | Anbotek | Anbores | VK VIII | otek Anb | 74.00 | *ek | No V |
| 4824.00 | 38.84 | 34.13 | 6.61 | 34.09 | 45.49 | 74.00 | -28.51 | A Motor |
| 7236.00 | 33.88 | 37.14 | 7.74 | 34.51 | 44.25 | 74.00 | -29.75 | H |
| 9648.00 | 32.23 | 39.35 | 9.26 | 34.80 | 46.04 | 74.00 | -27.96 | 6 H |
| 12060.00 | por * | abotek | Anbotel | Anbo | k Anbotel | 74.00 | ok Pun | ote ^K H |
| 14472.00 | Anbox * | An abotek | Anbores | KANDO | otek anb | 74.00 | rak bu | Hode |
| 16884.00 | Anbo. | nbo [†] | SK Aupo, | 's Vill | notek p | 74.00 | por b | H |
| | 30.07 | 10. | A | verage Valu | e | N. | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4824.00 | 29.24 | 34.13 | 6.61 | 34.09 | 35.89 | 54.00 | -18.11 | V |
| 7236.00 | 22.99 | 37.14 | 7.74 | 34.51 | 33.36 | 54.00 | -20.64 | V |
| 9648.00 | 23.00 | 39.35 | 9.26 | 34.80 | 36.81 | 54.00 | -17.19 | Yuper |
| 12060.00 | ek * Anbot | er Vu | hotek | Anbotek | Aupore | 54.00 | Anbotes | V |
| 14472.00 | potek * Ani | pote | protek spotek | Anbotek | Anboratek | 54.00 | Anbore | V |
| 16884.00 | Anbotek | Aupore Fek | Andotek | Anbotel | Anbo | 54.00 | sk Aupo | V |
| 4824.00 | 28.38 | 34.13 | 6.61 | 34.09 | 35.03 | 54.00 | -18.97 | H |
| 7236.00 | 22.47 | 37.14 | 7.74 | 34.51 | 32.84 | 54.00 | -21.16 | Pupon |
| 9648.00 | 21.98 | 39.35 | 9.26 | 34.80 | 35.79 | 54.00 | -18.21 | \mathbb{H}_{p} |
| 12060.00 | otek * Ant | lose, | hotek | Anbotek | Anbote. | 54.00 | Anbotek | H |
| 14472.00 | inbotek* | Aupoter | Anbotek | Anbotek | Anbore | 54.00 | k Aupo | H |
| 16884.00 | Anbo*ek | Anbote | Aur Pole | k Anbo | lek Aupo, | 54.00 | otek Ar | H, |

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Test Results (Above 1000MHz)

| Test Mode: | 802.11b Mod | le | | Test | channel: Mid | dle | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|--------------------|
| | | | I | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874.00 | 39.23 | 34.35 | 6.67 | 34.09 | 46.16 | 74.00 | -27.84 | $^{nb}\circ V^{k}$ |
| 7311.00 | 34.21 | 37.21 | 7.77 | 34.53 | 44.66 | 74.00 | -29.34 | No. |
| 9748.00 | 33.68 | 39.45 | 9.33 | 34.80 | 47.66 | 74.00 | -26.34 | V |
| 12185.00 | *6* * | botek | Anbotek | Anbu | Anbotek | 74.00 | Ann Pote | × V |
| 14622.00 | Upor * | nbotek | Anbotek | Aup | k Anbote | 74.00 | lek ve | oteKV |
| 17059.00 | Anbo * | Anbotek | Anbotos | Anu. | otek Anb | 74.00 | tek bu | nbo Vk |
| 4874.00 | 39.72 | 34.35 | 6.67 | 34.09 | 46.65 | 74.00 | -27.35 | , nbote |
| 7311.00 | 32.86 | 37.21 | 7.77 N | 34.53 | 43.31 | 74.00 | -30.69 | Harr |
| 9748.00 | 33.57 | 39.45 | 9.33 | 34.80 | 47.55 | 74.00 | -26.45 | • Н |
| 12185.00 | por * Pr | abotek | Anboten | Anbo | r Anbotel | 74.00 | V. Vun | ote ^K H |
| 14622.00 | Aupor * | Anotek | Anbotes | - K Pupp | otek Anb | 74.00 | rok bus | Hodo |
| 17059.00 | Anbe otek | nbol | ek Anbo | o. And | hotek A | 74.00 | bor b | Hie |
| | | | A | verage Valu | e | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4874.00 | 30.09 | 34.35 | 6.67 | 34.09 | 37.02 | 54.00 | -16.98 | V |
| 7311.00 | 22.53 | 37.21 | 7.77 | 34.53 | 32.98 | 54.00 | -21.02 | obo V |
| 9748.00 | 22.93 | 39.45 | 9.33 | 34.80 | 36.91 | 54.00 | -17.09 | Nupo |
| 12185.00 | ek * Aupol | Vak Vu | hotek | Anbotek | Aupor | 54.00 | Anbotek | V |
| 14622.00 | otek * An' | pote | kin | Anbotek | Anbo | 54.00 | Aupote | VP |
| 17059.00 | Anbotek* | Aupor | Amanbotek | Anbotek | Anbo | 54.00 | ek Aupo | V |
| 4874.00 | 29.84 | 34.35 | 6.67 | 34.09 | 36.77 | 54.00 | -17.23 | H |
| 7311.00 | 21.95 | 37.21 | 1.77 AND | 34.53 | 32.40 | 54.00 | -21.60 | Aupore |
| 9748.00 | 23.29 | 39.45 | 9.33 | 34.80 | 37.27 | 54.00 | -16.73 | ARD |
| 12185.00 | otek * Ant | lose. | hotek | Anbotek | Anbore | 54.00 | Anbotek | H P |
| 14622.00 | mbotek* | Aupoter. | Amir | Anbotek | Anbore | 54.00 | K Anbo | H |
| 17059.00 | Anbo*ek | Anboto | k hup | k Anbo | ex Yupo, | 54.00 | otek Ar | H. |

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Test Results (Above 1000MHz)

| Test Mode: | 802.11b Mod | le | | Test | channel: Higl | hest | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|-----------------|
| | | | | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924.00 | 44.67 | 34.57 | 6.74 | 34.09 | 51.89 | 74.00 | -22.11 | N. |
| 7386.00 | 34.83 | 37.29 | 7.80 | 34.55 | 45.37 | 74.00 | -28.63 | V |
| 9848.00 | 36.93 | 39.55 | 9.41 | 34.81 | 51.08 | 74.00 | -22.92 | V |
| 12310.00 | tek * Anbo | Ve. V. | 100 FBK | abotek | Aupole | 74.00 | Anbotek | Λ_{u_l} |
| 14772.00 | otek * | hotek | Anbox | hotek | Anbotes | 74.00 | abote | V |
| 17234.00 | 16K | abotek | Aupor | Andre | k Anbote | 74.00 | lok of | otekV |
| 4924.00 | 44.01 | 34.57 | 6.74 | 34.09 | 51.23 | 74.00 | -22.77 | NO HE |
| 7386.00 | 33.75 | 37.29 | 7.80 | 34.55 | 44.29 | 74.00 | -29.71 | Hite |
| 9848.00 | 33.11 | 39.55 | 9.41 | 34.81 | 47.26 | 74.00 | -26.74 | VUD. |
| 12310.00 | lek * Anbo | len VL | otek. | abotek | Anbore | 74.00 | Anbotek | A.nic |
| 14772.00 | sotek * | potek | Aupo | abotek | Anbote | 74.00 | nbote | Н |
| 17234.00 | ote* | Anbotek | Aupor | All hotel | K Anbore | 74.00 | vek nb | otek H |
| | | | A۱ | verage Valu | е | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4924.00 | 35.60 | 34.57 | 6.74 | 34.09 | 42.82 | 54.00 | -11.18 | V |
| 7386.00 | 24.75 | 37.29 | 7.80 | 34.55 | 35.29 | 54.00 | -18.71 | V |
| 9848.00 | 25.44 | 39.55 | 9.41 | 34.81 | 39.59 | 54.00 | -14.41 | V |
| 12310.00 | * tek | Anbotek | Aupo | ak abo | rek Anbo | 54.00 | otek . | Produ |
| 14772.00 | ** | nboth | Sk Vupo. | N. K. | hotek A | 54.00 | 18 × 1 | Vel |
| 17234.00 | * | 1/2 1/8 | otek Ani | or A | otek | 54.00 | Aupo rok | V |
| 4924.00 | 34.38 | 34.57 | 6.74 | 34.09 | 41.60 | 54.00 | -12.40 | H |
| 7386.00 | 23.14 | 37.29 | 7.80 | 34.55 | 33.68 | 54.00 | -20.32 | H |
| 9848.00 | 22.37 | 39.55 | 9.41 | 34.81 | 36.52 | 54.00 | -17.48 | H |
| 12310.00 | *otek | Anbotek | Anbo | , NO | lek Aupo | 54.00 | otek o | botek |
| 14772.00 | And * otek | Anbote | Anbor | *ek | botek Ar | 54.00 | atek . | onbHek |
| 17234.00 | Pup. | dr. 4 | otek Ant | or by | botek | 54.00 | Vupo. | Hoo |

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20N),n(HT40N) mode, and found the 802.11b mode is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*", means this data is the too weak instrument of signal is unable to test.

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Radiated Band Edge:

| | V. 11. | | | | | | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|-------------------|
| Test Mode: | 802.11b Mod | е | | Tes | st channel: Lov | vest | | |
| | | | F | Peak Valu | е | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 52.31 | 29.15 | 3.41 | 34.01 | 50.86 | 74.00 | -23.14 | nboH ^K |
| 2400.00 | 61.54 | 29.16 | 3.43 | 34.01 | 60.12 | 74.00 | -13.88 | Ho |
| 2390.00 | 54.04 | 29.15 | 3.41 | 34.01 | 52.59 | 74.00 | -21.41 | V |
| 2400.00 | 63.52 | 29.16 | 3.43 | 34.01 | 62.10 | 74.00 | -11.90 | V |
| | | | Av | erage Val | lue | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 38.88 | 29.15 | 3.41 | 34.01 | 37.43 | 54.00 | -16.57 | And |
| 2400.00 | 47.25 | 29.16 | 3.43 | 34.01 | 45.83 | 54.00 | -8.17 | An |
| 2390.00 | 40.75 | 29.15 | 3.41 | 34.01 | 39.30 | 54.00 | -14.70 | V |
| 2400.00 | 48.42 | 29.16 | 3.43 | 34.01 | 47.00 | 54.00 | -7.00 | V |

| Antenna Factor (dB/m) 29.28 29.30 | Cable Loss (dB) | Peak Value Preamp Factor (dB) | Level (dBuV/m) | Limit | Over Limit | |
|---|---|--|--|--|--|--|
| Factor (dB/m) 29.28 | (dB) | Factor | | Limit | Over Limit | |
| VILLE | 3.53 | | (ubuv/III) | (dBuV/m) | (dB) | Pol. |
| 20.20 | 5,50 | 34.03 | 52.03 | 74.00 | -21.97 | HP10dh |
| 29.30 | 3.56 | 34.03 | 47.70 | 74.00 | -26.30 | VUPA: PIEN |
| 29.28 | 3.53 | 34.03 | 54.42 | 74.00 | -19.58 | Vibo |
| 29.30 | 3.56 | 34.03 | 50.33 | 74.00 | -23.67 | V |
| | Av | erage Valu | е | | | |
| Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 29.28 | 3.53 | 34.03 | 38.12 | 54.00 | -15.88 | And |
| 29.30 | 3.56 | 34.03 | 34.15 | 54.00 | -19.85 | H |
| 29.28 | 3.53 | 34.03 | 40.13 | 54.00 | -13.87 | V V |
| 200 | 3.56 | 34.03 | 36.06 | 54.00 | 100 | V |
| | Antenna Factor (dB/m) 29.28 29.30 | Antenna Factor (dB/m) 29.28 3.53 29.30 3.56 29.28 3.53 | Average Value Antenna Factor (dB/m) 29.28 29.30 29.28 3.53 34.03 29.28 3.53 34.03 | Average Value Antenna Factor (dB/m) 29.28 3.53 34.03 34.15 29.28 3.53 34.03 40.13 | Antenna Factor (dB/m) Cable Loss (dB) Preamp Factor (dB/m) 29.28 3.53 34.03 38.12 54.00 29.28 3.53 34.03 40.13 54.00 | Average Value Antenna Factor (dB/m) 29.28 3.53 34.03 38.12 54.00 -19.85 29.28 3.53 34.03 40.13 54.00 -13.87 |

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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Radiated Band Edge:

| Test Mode: | 802.11g Mod | е | | Test | channel: Low | est | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|-------------------|
| | | | F | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 51.27 | 27.53 | 5.47 | 33.92 | 50.35 | 74.00 | -23.65 | nboH ^k |
| 2400.00 | 60.15 | 27.55 | 5.49 | 29.93 | 63.26 | 74.00 | -10.74 | Hote |
| 2390.00 | 52.92 | 27.53 | 5.47 | 33.92 | 52.00 | 74.00 | -22.00 | V |
| 2400.00 | 61.84 | 27.55 | 5.49 | 29.93 | 64.95 | 74.00 | -9.05 | V |
| | | | Av | erage Valu | ie | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 38.14 | 27.53 | 5.47 | 33.92 | 37.22 | 54.00 | -16.78 | AND |
| 2400.00 | 46.39 | 27.55 | 5.49 | 29.93 | 49.50 | 54.00 | -4.50 | Ant |
| 2390.00 | 39.93 | 27.53 | 5.47 | 33.92 | 39.01 | 54.00 | -14.99 | V |
| 2400.00 | 47.49 | 27.55 | 5.49 | 29.93 | 50.60 | 54.00 | -3.40 | V |

| Test Mode: | 802.11g Mod | е | | Test | channel: Higl | nest | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|---------|
| | | | F | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2483.50 | 51.76 | 29.28 | 3.53 | 34.03 | 50.54 | 74.00 | -23.46 | HP10dh |
| 2500.00 | 47.71 | 29.30 | 3.56 | 34.03 | 46.54 | 74.00 | -27.46 | VUPACE, |
| 2483.50 | 53.94 | 29.28 | 3.53 | 34.03 | 52.72 | 74.00 | -21.28 | Vibo |
| 2500.00 | 50.15 | 29.30 | 3.56 | 34.03 | 48.98 | 74.00 | -25.02 | V |
| | | | Av | rerage Valu | ie | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2483.50 | 38.44 | 29.28 | 3.53 | 34.03 | 37.22 | 54.00 | -16.78 | Anb H |
| 2500.00 | 34.62 | 29.30 | 3.56 | 34.03 | 33.45 | 54.00 | -20.55 | H |
| 2483.50 | 40.36 | 29.28 | 3.53 | 34.03 | 39.14 | 54.00 | -14.86 | A V P |
| 2500.00 | 36.49 | 29.30 | 3.56 | 34.03 | 35.32 | 54.00 | -18.68 | V |

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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Radiated Band Edge:

| Test Mode: | 802.11n20 M | ode | | Test | Test channel: Lowest | | | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|----------------------|-------------------|-----------------|--------|--|
| | | | F | Peak Value | : | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | |
| 2390.00 | 50.74 | 27.53 | 5.47 | 33.92 | 49.82 | 74.00 | -24.18 | abol4k | |
| 2400.00 | 59.45 | 27.55 | 5.49 | 29.93 | 62.56 | 74.00 | -11.44 | Hor | |
| 2390.00 | 52.36 | 27.53 | 5.47 | 33.92 | 51.44 | 74.00 | -22.56 | V | |
| 2400.00 | 61.00 | 27.55 | 5.49 | 29.93 | 64.11 | 74.00 | -9.89 | V | |
| | | | Av | erage Valu | ie | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | |
| 2390.00 | 37.76 | 27.53 | 5.47 | 33.92 | 36.84 | 54.00 | -17.16 | AND | |
| 2400.00 | 45.96 | 27.55 | 5.49 | 29.93 | 49.07 | 54.00 | -4.93 | Ant | |
| 2390.00 | 39.51 | 27.53 | 5.47 | 33.92 | 38.59 | 54.00 | -15.41 | V | |
| 2400.00 | 47.01 | 27.55 | 5.49 | 29.93 | 50.12 | 54.00 | -3.88 | V | |

| Test Mode: | 802.11n20 M | ode | | Test | Test channel: Highest | | | | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-----------------------|-------------------|-----------------|---------|--|--|
| | | | F | Peak Value | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | | |
| 2483.50 | 51.00 | 29.28 | 3.53 | 34.03 | 49.78 | 74.00 | -24.22 | Hrode | | |
| 2500.00 | 47.12 | 29.30 | 3.56 | 34.03 | 45.95 | 74.00 | -28.05 | VUPA(6) | | |
| 2483.50 | 53.08 | 29.28 | 3.53 | 34.03 | 51.86 | 74.00 | -22.14 | Vib | | |
| 2500.00 | 49.46 | 29.30 | 3.56 | 34.03 | 48.29 | 74.00 | -25.71 | V | | |
| | | | Av | rerage Valu | ie | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | | |
| 2483.50 | 37.99 | 29.28 | 3.53 | 34.03 | 36.77 | 54.00 | -17.23 | Anu H | | |
| 2500.00 | 34.26 | 29.30 | 3.56 | 34.03 | 33.09 | 54.00 | -20.91 | H | | |
| 2483.50 | 39.85 | 29.28 | 3.53 | 34.03 | 38.63 | 54.00 | -15.37 | V V | | |
| 2500.00 | 36.11 | 29.30 | 3.56 | 34.03 | 34.94 | 54.00 | -19.06 | V | | |

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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Radiated Band Edge:

| Test Mode: | 802.11n40 M | ode | | Tes | t channel: Low | est | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|--------------------|-------------------|
| | | | F | Peak Value | • | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 50.08 | 27.53 | 5.47 | 33.92 | 49.16 | 74.00 | -24.84 | nboH ^K |
| 2400.00 | 58.57 | 27.55 | 5.49 | 29.93 | 61.68 | 74.00 | -12.32 | How |
| 2390.00 | 51.65 | 27.53 | 5.47 | 33.92 | 50.73 | 74.00 | -23.27 | V |
| 2400.00 | 59.94 | 27.55 | 5.49 | 29.93 | 63.05 | 74.00 | -10.95 | V |
| | | | Av | verage Valu | ue | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 2390.00 | 37.29 | 27.53 | 5.47 | 33.92 | 36.37 | 54.00 | -17.63 | AND |
| 2400.00 | 45.42 | 27.55 | 5.49 | 29.93 | 48.53 | 54.00 | -5.47 | An |
| 2390.00 | 38.99 | 27.53 | 5.47 | 33.92 | 38.07 | 54.00 | -15.93 | V |
| 2400.00 | 46.42 | 27.55 | 5.49 | 29.93 | 49.53 | 54.00 | -4.47 | V |

| Test Mode: | 802.11n40 M | ode | | Test | Test channel: Highest | | | | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-----------------------|-------------------|-----------------|---------|--|--|
| | | | F | Peak Value | | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | | |
| 2483.50 | 50.06 | 29.28 | 3.53 | 34.03 | 48.84 | 74.00 | -25.16 | HProdu | | |
| 2500.00 | 46.39 | 29.30 | 3.56 | 34.03 | 45.22 | 74.00 | -28.78 | VUPA:EA | | |
| 2483.50 | 52.00 | 29.28 | 3.53 | 34.03 | 50.78 | 74.00 | -23.22 | Vibo | | |
| 2500.00 | 48.61 | 29.30 | 3.56 | 34.03 | 47.44 | 74.00 | -26.56 | V | | |
| | | | Av | rerage Valu | ie | | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | | |
| 2483.50 | 37.98 | 29.28 | 3.53 | 34.03 | 36.76 | 54.00 | -17.24 | And | | |
| 2500.00 | 34.26 | 29.30 | 3.56 | 34.03 | 33.09 | 54.00 | -20.91 | H | | |
| 2483.50 | 39.85 | 29.28 | 3.53 | 34.03 | 38.63 | 54.00 | -15.37 | A V P | | |
| 2500.00 | 36.11 | 29.30 | 3.56 | 34.03 | 34.94 | 54.00 | -19.06 | V | | |

Remark:

1. Level =Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor

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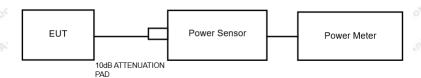
Report No.: SZAWW190320006-03 Page 30 of 63 FCC ID: 2AIOHHT0802W16

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

| Test Standard | FCC Part15 (| C Section 15.2 | 247 (b)(3) | Aupo, otek | nbotek | Anbote | P. |
|---------------|--------------|----------------|------------|------------|--------|--------|----|
| Test Limit | 30dBm | Arr | Anboten | Anbo | nbotek | Anbole | V. |

5.2. Test Setup



5.3. Test Procedure

- 1. The Transmitter output (antenna port) was connected to the power meter.
- 2. Turn on the EUT and power meter and then record the power value.
- 3. Repeat above procedures on all channels needed to be tested.

Note: The cable loss and attenuator loss were offset into measure device as amplitude offset.

5.4. Test Data

Test Item Test Mode CH Low ~ CH High Max. peak output power

Test Voltage DC 3.7V Battery inside **Temperature** 23.7℃

Test Result **PASS** Humidity 53%RH

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| Test Channel | Frequency (MHz) | Maximum Peak Conducted Output Power (PK) (dBm) | Limit dBm | Results |
|--------------|--------------------|--|--------------------|-------------|
| otek Anbu | | TX 802.11b Mode | | Anbotek Ar |
| CH01 | 2412 | Andrek 9.5100tek Andre | 30 Ambotek | PASS |
| CH06 | 2437 | 9.20 | Anbotek 30 Anbote | PASS |
| CH11 | 2462 | 9.50 | Anbotek 30 Anbo | PASS |
| stek Anbotek | Anbotek A | TX 802.11g Mode | ek abotek A | Anbotek An |
| CH01 | 2412 | 6.70 | otek 30 Anbotek | PASS |
| CH06 | 2437 | 6.90 hotek | Ambotek 30 Ambotek | PASS |
| CH11 | 2462 | 8.39 Annotes | Anbotek 30 | PASS |
| ctek Anbotek | Anbotek A | TX 802.11n(20) Mode | ak Aupo | Anbotek Ant |
| CH01 | 2412 | 6.01 | otek 30 hootek | PASS |
| CH06 | 2437 | 5.88 botek | inbotek 30 Anboten | PASS |
| CH11 | 2462 | 7.61 | Anbote 30 | PASS |
| otek Anbotek | Anbotek A | TX 802.11n(40) Mode | Anbotek A | Anbotek Ant |
| CH03 | 2422 | Anbotek 5.60 Anbo | 30 odek | PASS |
| CH06 | 2437 | Anbotek 6.31 | nbotek 30 Anbotes | PASS |
| CH09 | 2452 | 6.08 Anbotek | Anbore 30 Anb | PASS |

Note: For power test the duty cycle is 100% in continuous transmitting mode.

Please see the plot of next page



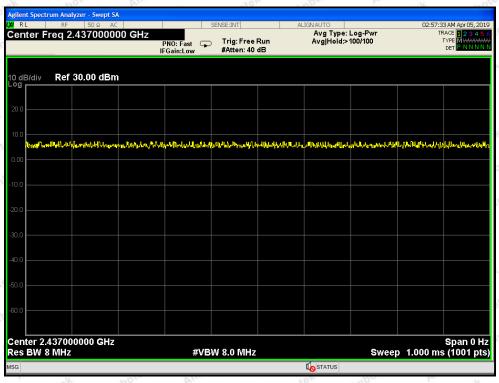
Report No.: SZAWW190320006-03

FCC ID: 2AIOHHT0802W16 **Duty Cycle**

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802.11b mode

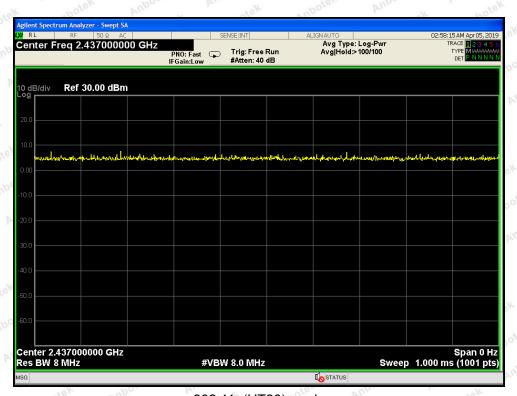


802.11g mode

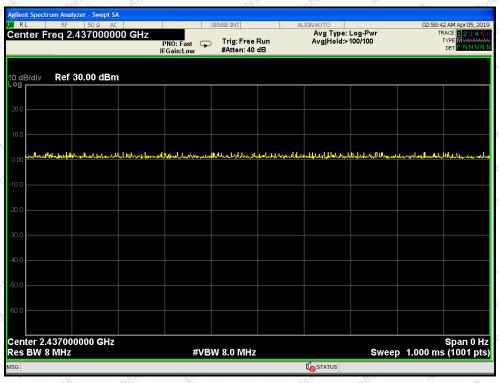
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802.11n(HT20) mode



802.11n(HT40) mode

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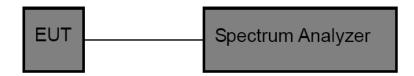
Report No.: SZAWW190320006-03 FCC ID: 2AIOHHT0802W16 Page 34 of 63

6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

| Test Standard | FCC Part15 | C Section 15. | 247 (a)(2) | Antonotek | Anbotek | Anbote A |
|---------------|------------|---------------|------------|-----------|---------|----------|
| Test Limit | >500kHz | A. nbotek | Anbote. | Ann | anbotek | Anbore |

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- 2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 3. Set the spectrum analyzer as:

RBW= 100kHz, VBW≥3*RBW =300kHz

Detector= Peak

Trace mode= Max hold.

Sweep- auto couple.

- 4. Mark the peak frequency and -6dB (upper and lower) frequency.
- 5. Repeat until all the rest channels are investigated.

6.4. Test Data

Test Item : 6dB Bandwidth Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside : 23.7℃

Test Result : PASS Humidity : 53%RH



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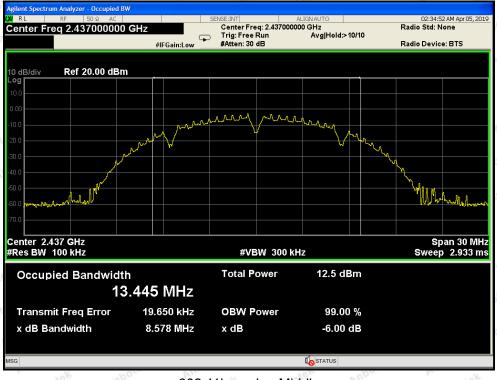
| Mode | Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|-------------|---------|--------------------|--------------------|--------------------|------------|
| tek Anbotek | Low | 2412 | 8.593 | otek Anbotek | PASS |
| 802.11b | Middle | 2437 | 8.578 | >500 | PASS |
| Anbotek A | High | 2462 | 9.077 | Anbotek Anh | PASS PASS |
| Anbotek | Low | 2412 | 16.38 | Anbotek Anbotek | PASS |
| 802.11g | Middle | 2437 | 16.39 | >500 | PASS |
| potek Anbo | High | 2462 | 16.36 | nbotek Anbote | PASS |
| Anbote, Ac | Low | 2412 | 17.35 | Anbotek Anb | PASS |
| 802.11n20 | Middle | 2437 | 17.57 | >500 | PASS MODEL |
| k Anbotek | High | 2462 | 17.35 | lek Anbotek | PASS |
| otek Aupo | Low | 2422 | 35.56 | botek Anbote | PASS |
| 802.11n40 | Middle | 2437 | 35.51 | >500 | PASS |
| Anbotek | High | 2452 | 35.52 | Anbotek A | PASS |



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802.11b mode: Lowest

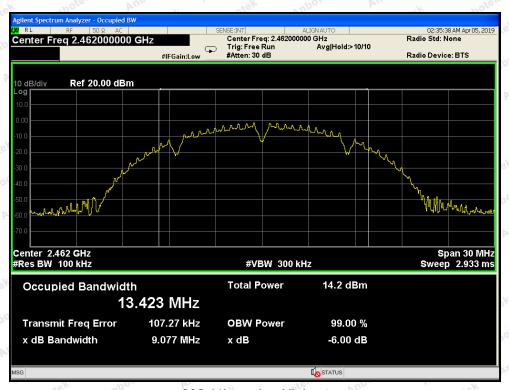


802.11b mode: Middle

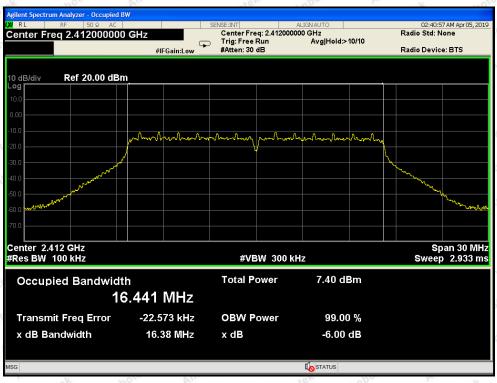
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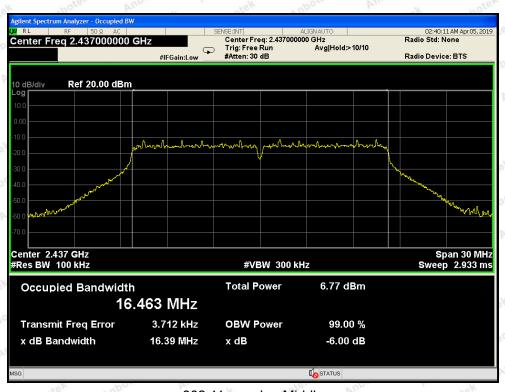
802.11b mode: Highest



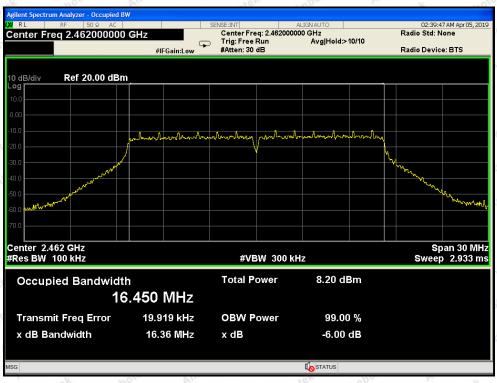
802.11g mode: Lowest



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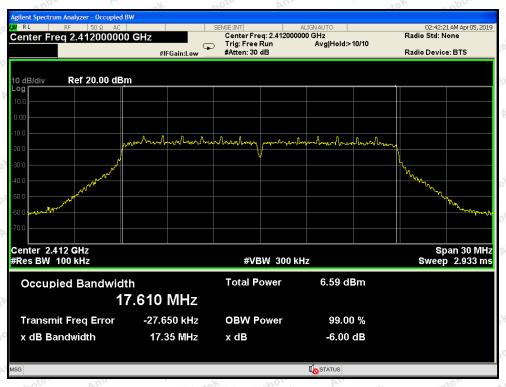
802.11g mode: Middle



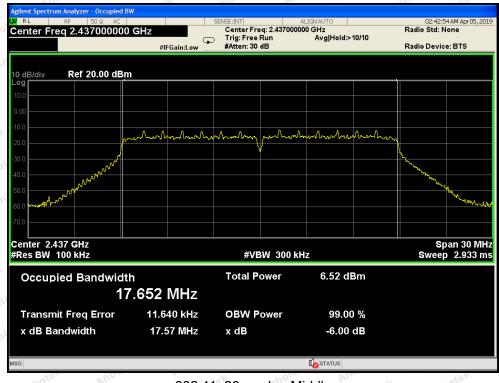
802.11g mode: Highest



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802.11n20 mode: Lowest



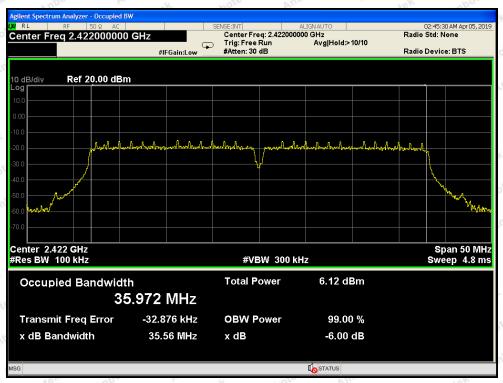
802.11n20 mode : Middle



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802.11n20 mode : Highest

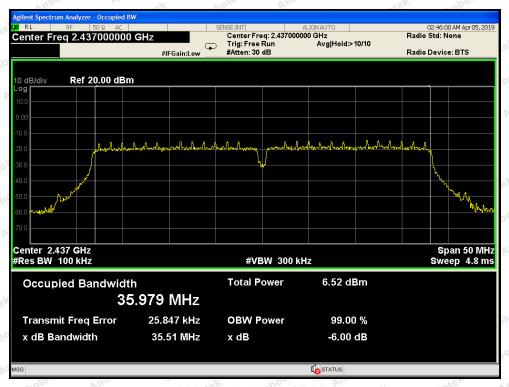


802.11n40 mode: Lowest

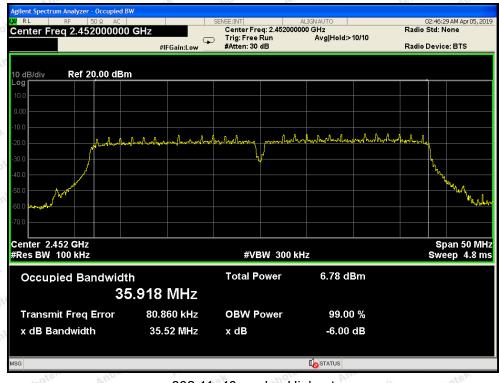
Hotline 400-003-0500 www.anbotek.com



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802.11n40 mode: Middle



802.11n40 mode: Highest

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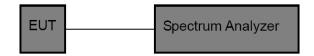
Report No.: SZAWW190320006-03 FCC ID: 2AIOHHT0802W16 Page 42 of 63

7. Power Spectral Density Test

7.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section | on Anboten | Anbo | Anbotek | Anbore A |
|---------------|----------------------|------------|------|---------|----------|
| Test Limit | 8dBm/3KHz | tek Anbote | Ann | anbotek | Aupor |

7.2. Test Setup



7.3. Test Procedure

- 1. Place the EUT on the table and set it in transmitting mode. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
- 2. Set the spectrum analyzer as RBW = 3kHz, VBW = 10kHz, Span = 1.5xDTS BW
- 3. Record the max. reading.
- 4. Repeat the above procedure until the measurements for all frequencies are completed

7.4. Test Data

Test Item : Power Spectral Density Test Mode : CH Low \sim CH High Test Voltage : DC 3.7V Battery inside Temperature : 23.7 $^{\circ}$ C Test Result : PASS Humidity : 53%RH

| Mode | Channel | Frequency (MHz) | PSD (dBm/3KHz) | Limit (dBm/3KHz) | Results |
|------------|------------------|--------------------|-------------------|---------------------|---------|
| Anbote | Low | 2412 | -17.101 | 8.00 | PASS |
| 802.11b | Middle | 2437 | -17.359 | 8.00 | PASS |
| SK Vupote | High | 2462 | -16.045 | 8.00 | PASS |
| potek Anbo | Low | 2412 | -23.352 | 8.00 | PASS |
| 802.11g | Middle | 2437 | -26.992 | 8.00 | PASS |
| A. nbotek | High | 2462 | -23.598 | 8.00 | PASS |
| potek | Low | 2412 | -25.764 | 8.00 | PASS |
| 802.11n20 | Middle | 2437 | -27.212 | 8.00 | PASS |
| rek wholek | High | 2462 | -25.461 | 8.00 | PASS |
| 00. Kr. | botek Low Anbote | 2422 | -29.725 | 8.00 | PASS |
| 802.11n40 | Middle | 2437 | -29.875 | 8.00 | PASS |
| Anbor | High | 2452 | -28.104 | 8.00 | PASS |

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Code: AB-RF-05-a

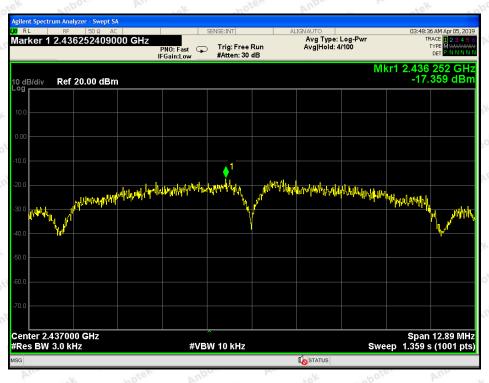




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802.11b mode: Lowest



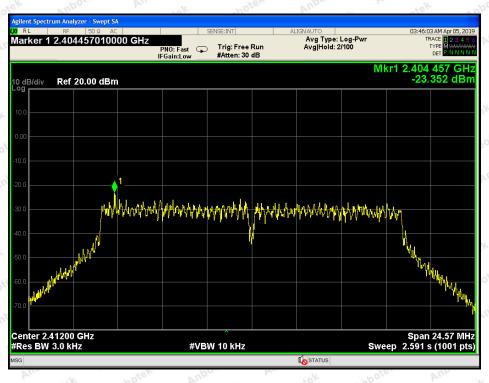
802.11b mode: Middle



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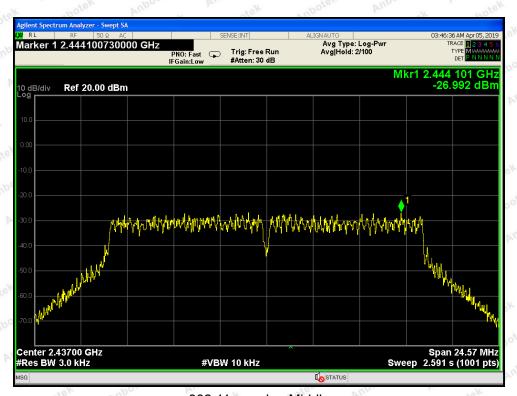
802.11b mode: Highest



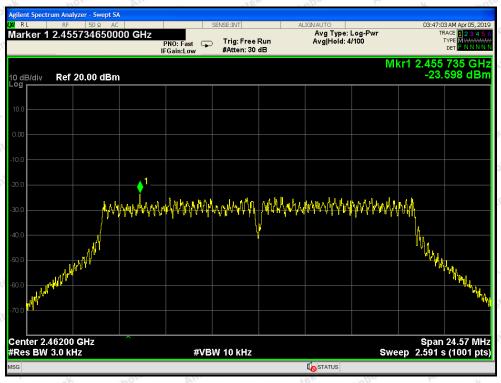
802.11g mode: Lowest



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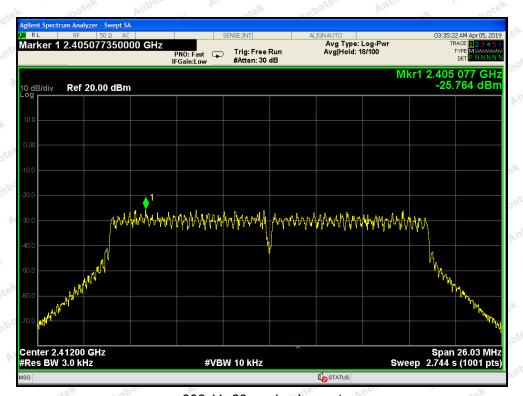
802.11g mode: Middle



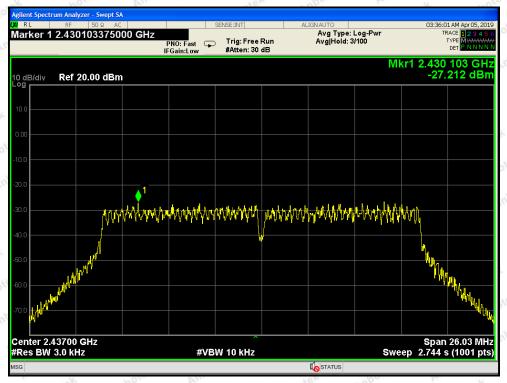
802.11g mode: Highest



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802.11n20 mode : Lowest



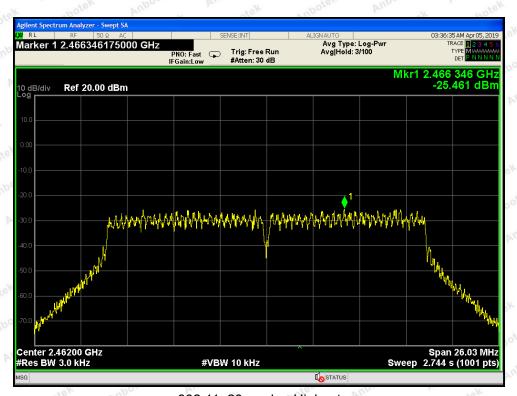
802.11n20 mode: Middle

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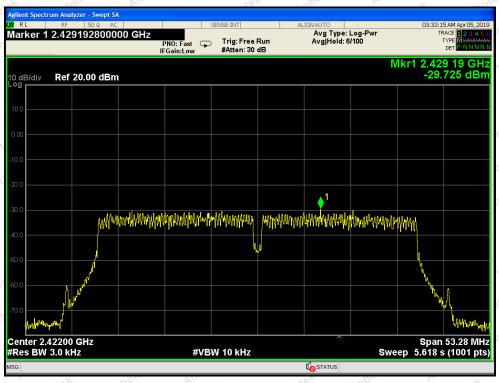
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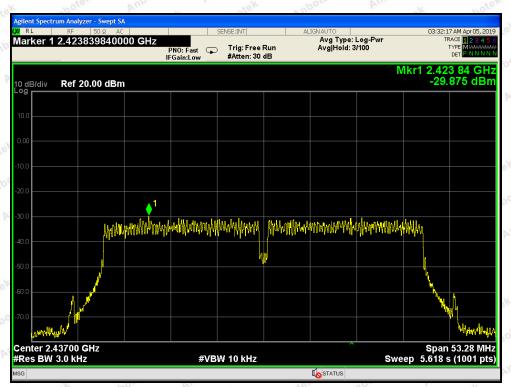
802.11n20 mode: Highest



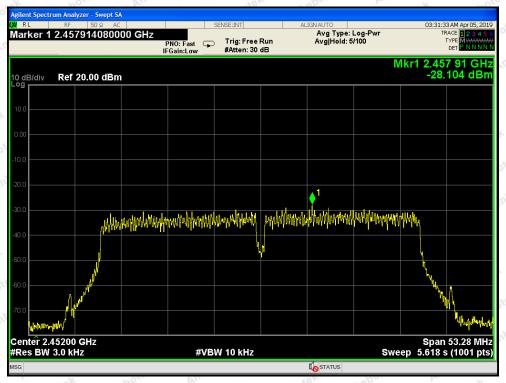
802.11n40 mode : Lowest



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802.11n40 mode: Middle



802.11n40 mode: Highest

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8. 100kHz Bandwidth of Frequency Band Edge Requirement

8.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.247 (d) | | | | |
|---------------|--|--|--|--|--|
| p | in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the | | | | |
| Test Limit | 100kHz bandwidth within the band that contains the highest level of the desired power, In addition, radiated emissions which fall in the restricted | | | | |
| 0 | bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in15.209(a). | | | | |

8.2. Test Setup



8.3. Test Procedure

Using the following spectrum analyzer setting:

- 1. Set the RBW = 100KHz.
- 2. Set the VBW = 300KHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = max hold.
- 6. Allow trace to fully stabilize.

8.4. Test Data

Test Item Band edge Test Mode CH Low ~ CH High

DC 3.7V Battery inside 23.7℃ Test Voltage Temperature

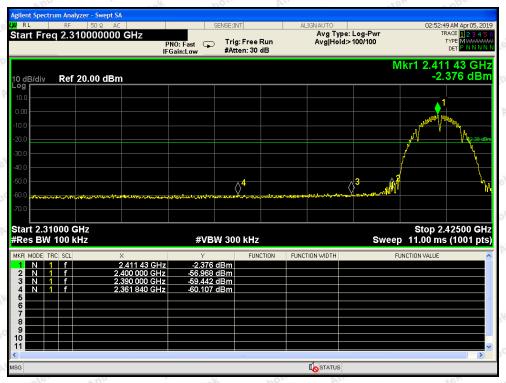
Humidity Test Result **PASS** 53%RH

Code: AB-RF-05-a

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802.11b mode: Lowest



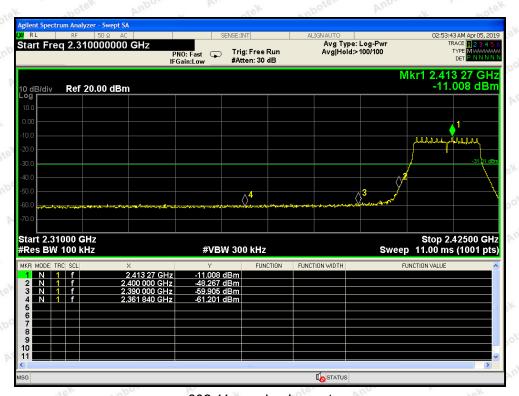
802.11b mode: Highest

Code: AB-RF-05-a

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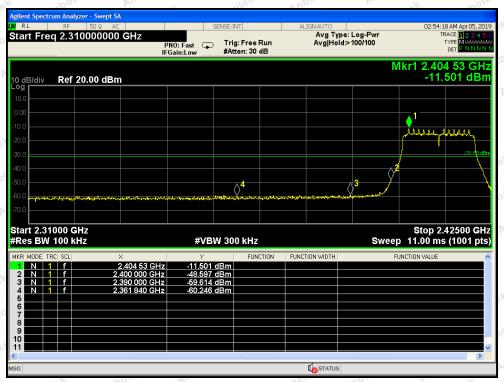
802.11g mode: Lowest



802.11g mode: Highest



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802.11n20 mode : Lowest



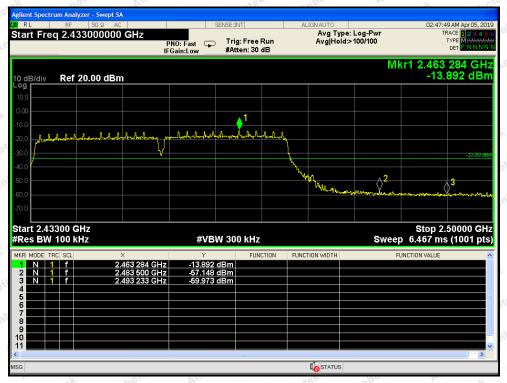
802.11n20 mode: Highest



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802.11n40 mode : Lowest

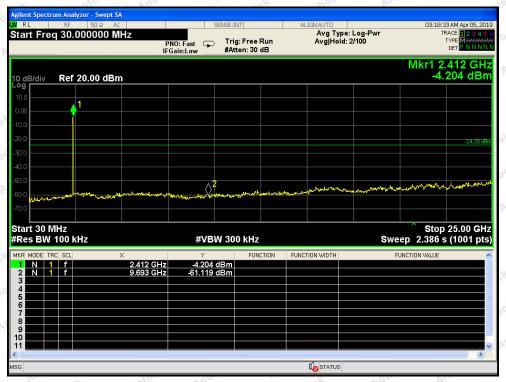


802.11n40 mode: Highest

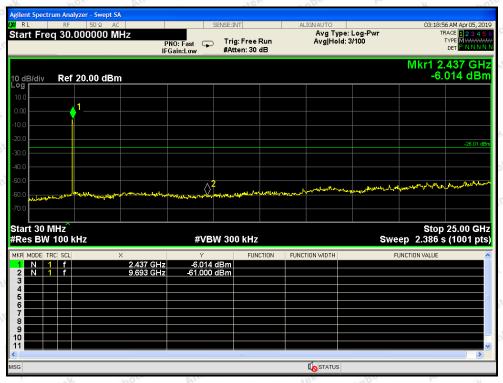


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Conducted Emission Method



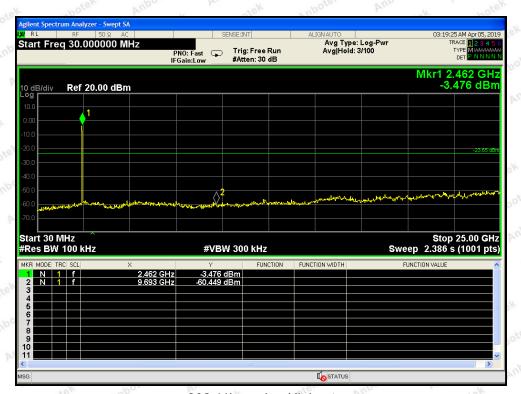
802.11b mode: Lowest



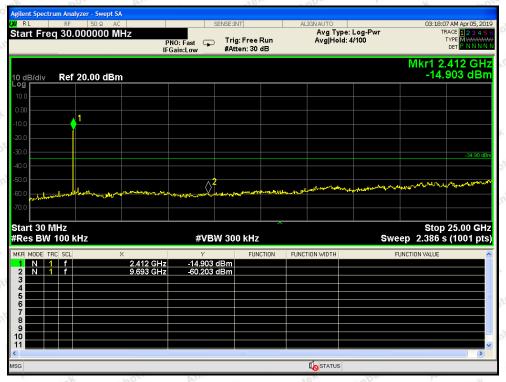
802.11b mode: Middle



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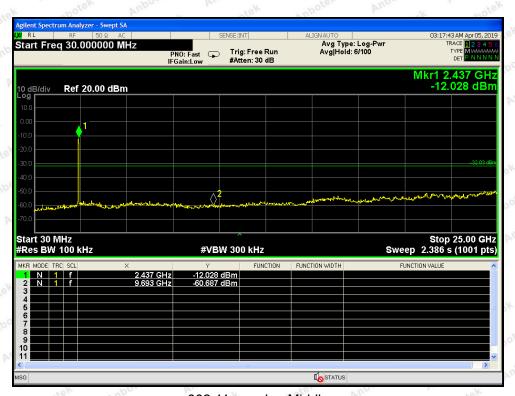
802.11b mode: Highest



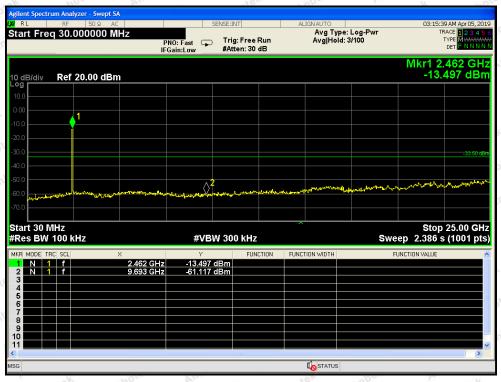
802.11g mode: Lowest



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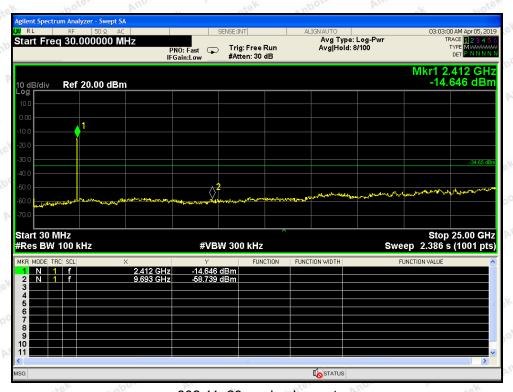
802.11g mode: Middle



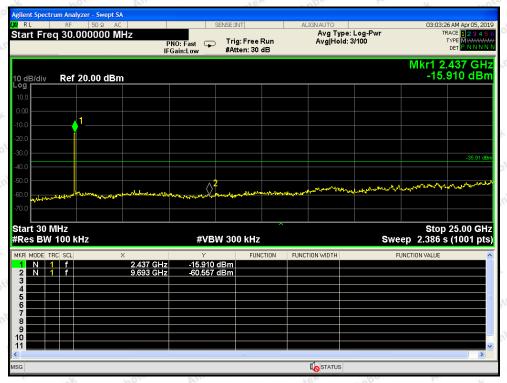
802.11g mode: Highest



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802.11n20 mode: Lowest



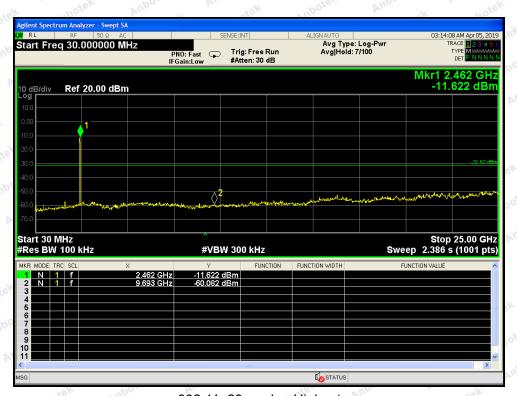
802.11n20 mode : Middle

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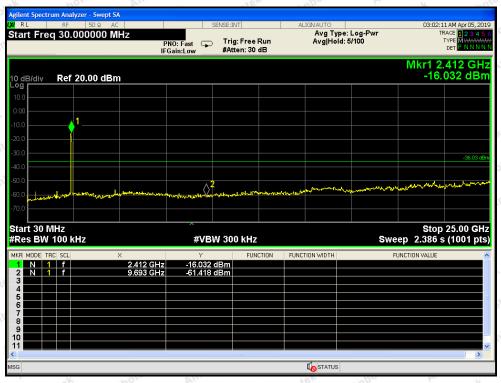
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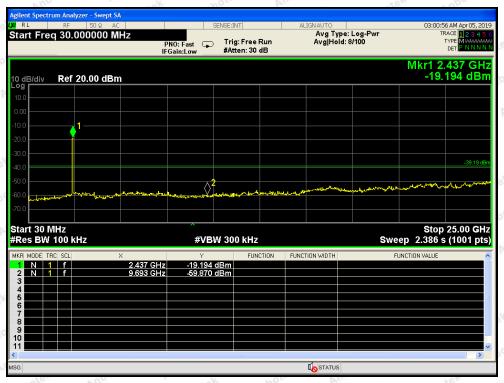
802.11n20 mode: Highest



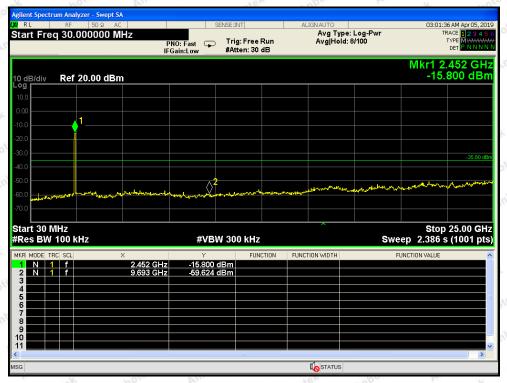
802.11n40 mode : Lowest



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802.11n40 mode: Middle



802.11n40 mode: Highest

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9. Antenna Requirement

9.1. Test Standard and Requirement

| Test Standard | FCC Part15 Section 15.203 /247(c) |
|---------------|---|
| Requirement | 1) 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. 2) 15.247(c) (1)(i) requirement: Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. |

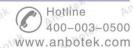
9.2. Antenna Connected Construction

The antenna is a PIFA Antenna which permanently attached, and the best case gain of the antenna is 1.1 dBi It complies with the standard requirement.



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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Conducted Emission Measurement

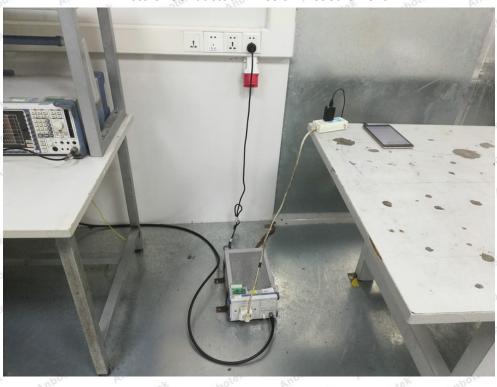


Photo of Radiation Emission Test





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APPENDIX II -- PHOTOGRAPH

Reference to the test report SZAWW190320006-01

----- End of Report -----