

Report No.: SZAWW191011003-01 FCC ID: WQ8MAXIVIDEOMV160 Page 1 of 63

FCC TEST REPORT

Client Name : Autel Intelligent Tech. Corp., Ltd.

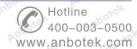
Address 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili,

Nanshan Shenzhen China

Product Name : Digital Inspection Videoscope

Date : Dec. 17, 2019

Shenzhen Anbotek Compliance Laboratory Limited





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TEST REPORT

Applicant : Autel Intelligent Tech. Corp., Ltd.

Manufacturer : Autel Intelligent Tech. Corp., Ltd.

Product Name : Digital Inspection Videoscope

Model No. : MV160

Trade Mark : AUTEL

Rating(s) : Input: DC 5V, 2A (with DC 3.7V, 2600 mAh 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
Date of Test

Oct. 11, 2019
Oct. 11~24, 2019

Prepared by

(Engineer / Dolly Mo)

Reviewer

(Supervisor / Bibo Zhang)

Approved & Authorized Signer

(Manager / Sally Zhang)

Shenzhen Anbotek Compliance Laboratory Limited





1. General Information

1.1. Client Information

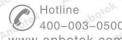
| Applicant | : Autel Intelligent Tech. Corp., Ltd. |
|--------------|---|
| Address | 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan Shenzhen China |
| Manufacturer | : Autel Intelligent Tech. Corp., Ltd. |
| Address | 7th-8th, 10th Floor, Bldg. B1, Zhiyuan, Xueyuan Rd., Xili, Nanshan Shenzhen China |
| Factory 1 | : Autel Intelligent Technology Corp.,Ltd. |
| Address 1 | 6th Floor,Building 1,Yanxiang Zhigu,NO.11 Gaoxin West Rd,Guangming New District, Shenzhen City, Guangdong Province,China. |
| Factory 2 | : AUTEL VIETNAM COMPANY LIMITED |
| Address 2 | 4th Floor, Factory#6, Land#CN1, An Duong Industrial Zone, Hong Phong Township, An Duong County, Hai Phong, Viet Nam |

1.2. Description of Device (EUT)

| Product Name | : | Digital Inspection Videosc | ope jek nipotek Anbotek Anbotek | | | | |
|---------------------|---|---|-------------------------------------|--|--|--|--|
| Model No. | : | MV160 | Anbotek Anbotek Anbotek Anbotek | | | | |
| Trade Mark | : | AUTEL | Anbotek Anbotek Anbotek Anbotek | | | | |
| Test Power Supply | : | AC 120V, 60Hz for adapte | er / DC 3.7V Battery inside | | | | |
| Test Sample No. | : | 1-2-1(Normal Sample), 1-2-2(Engineering Sample) | | | | | |
| | | Operation Frequency: | 802.11b/ g/ n(HT20) 2412-2462MHz | | | | |
| | | Number of Channel: | 11 Channels for 802.11b/ g/ n(HT20) | | | | |
| Product Description | : | Modulation Type: | 802.11b CCK; 802.11g/n OFDM | | | | |
| | | Antenna Type: | FPCB Antenna | | | | |
| | | Antenna Gain(Peak): | 1.4 dBi | | | | |

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

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1.3. Auxiliary Equipment Used During Test

Adapter : M/N: GME10C-050200FUu Input: 100-240V~ 50/60Hz, 0.28A Output: DC 5V, 2A

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) |
|------|---------|----------------------|--------------|------------------|-----------------|---------------------|
| 1/93 | 802.11b | 1 to 11 | botek 1 Anbr | 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 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 |

POWER LINE CONDUCTED EMISSION TEST:

The EUT was tested with the following mode

| 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 |

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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 | Test Channel | Modulation Tech. | 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 |

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 | Anbore 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 |

1.5. List of channels

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

Code:AB-RF-05-a

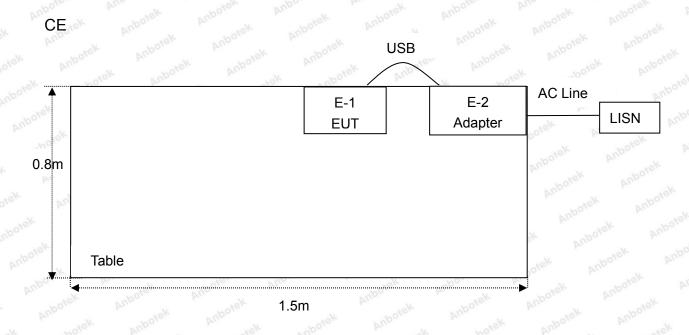
Hotline 400-003-0500 www.anbotek.com



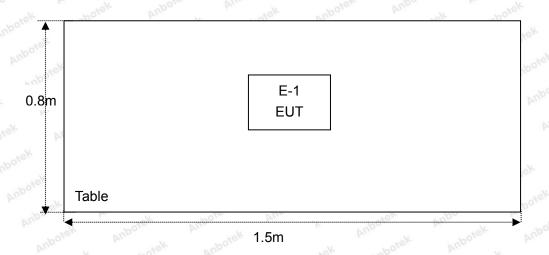
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1.6. Description Of Test Setup



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1.7. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interva |
|----------|---|-------------------------|------------------|---------------|---------------|-----------------|
| 1.Anb | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | Nov. 26, 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 | BK1G18G30 D | KD17503 | Nov. 05, 2018 | 1 Year |
| Ani7.hek | 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. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Nov. 20, 2018 | 1 Year |
| 10. | Horn Antenna | A-INFO | LB-180400- KF | J211060628 | Nov. 20, 2018 | 1 Year |
| n'11. | Pre-amplifier | SONOMA | 310N | 186860 | Nov. 05, 2018 | 1 Year |
| 12. | EMI Test Software EZ-EMC | SHURPLE | N/A | N/A | N/A | N/A |
| 13. | 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 |
| 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 | LW LW | TPR-6420D | 374470 | Oct. 31, 2018 | 1 Year |
| 20. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80 B | N/A | Nov. 01, 2018 | 1 Year |

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1.8. Measurement Uncertainty

| Radiation Uncertainty | : | Ur = 3.9 dB (Horizonta | al) Anbout | - Anbotek | Aupoter |
|------------------------|---|------------------------|---------------|---------------|---------|
| | | Ur = 3.8 dB (Vertical) | orek Anbo | rek anborek | Anbore |
| | | tek pin | inpotent Aug. | Lotek Anbotek | Anbore |
| Conduction Uncertainty | : | Uc = 3.4 dB | Anbore. A | hotek Anbot | ek Aupo |

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, September 30, 2018.

ISED-Registration No.: 8058A

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, March 07, 2019.

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

Hotline

www.anbotek.com

400-003-0500



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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 |
| Remark: "N/A" is an abbre | viation for Not Applicable. | botek Anbotek |



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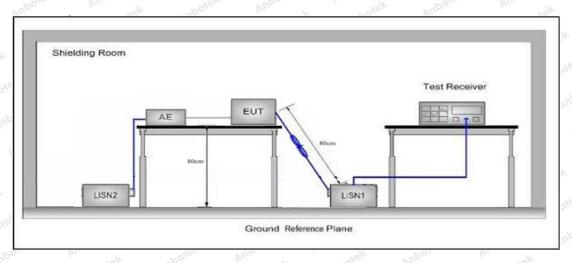
3. Conducted Emission Test

3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.20 | 07 tek inbotek Anbr | |
|---------------|--------------------------|---------------------|-------------------|
| | Fraguenav | Maximum RF Li | ne Voltage (dBuV) |
| | Frequency | Quasi-peak Level | Average Level |
| Test Limit | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| | 500kHz~5MHz | 56 | 46 |
| | 5MHz~30MHz | 60 | 50 borek |

(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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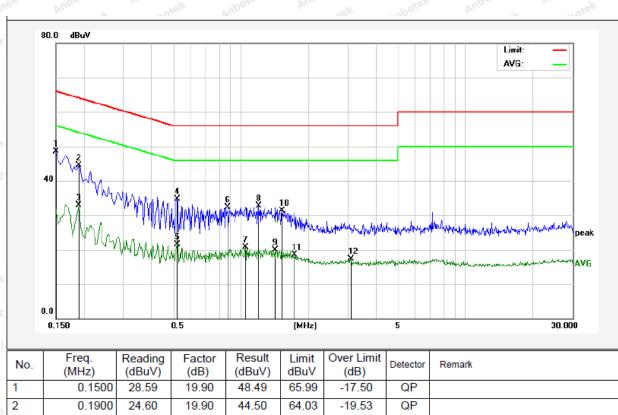
Conducted Emission Test Data

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

Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 24.9℃ Hum.: 51%



| | 310100 | | | | | | | |
|-----|----------------|-------------------|----------------|------------------|---------------|--------------------|----------|--------|
| 12 | 3.0780 | -2.86 | 20.16 | 17.30 | 46.00 | -28.70 | AVG | |
| 11 | 1.7380 | -1.62 | 20.13 | 18.51 | 46.00 | -27.49 | AVG | |
| 10 | 1.5300 | 11.13 | 20.13 | 31.26 | 56.00 | -24.74 | QP | |
| 9 | 1.4299 | -0.27 | 20.13 | 19.86 | 46.00 | -26.14 | AVG | |
| 8 | 1.1980 | 12.58 | 20.12 | 32.70 | 56.00 | -23.30 | QP | |
| 7 | 1.0500 | 0.50 | 20.12 | 20.62 | 46.00 | -25.38 | AVG | |
| 6 | 0.8780 | 12.24 | 20.09 | 32.33 | 56.00 | -23.67 | QP | |
| 5 | 0.5220 | 1.59 | 19.99 | 21.58 | 46.00 | -24.42 | AVG | |
| 4 | 0.5220 | 14.81 | 19.99 | 34.80 | 56.00 | -21.20 | QP | |
| 3 | 0.1900 | 13.03 | 19.90 | 32.93 | 54.03 | -21.10 | AVG | |
| 2 | 0.1900 | 24.60 | 19.90 | 44.50 | 64.03 | -19.53 | QP | |
| 1 | 0.1500 | 28.59 | 19.90 | 48.49 | 65.99 | -17.50 | QP | |
| No. | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Result (dBuV) | Limit dBuV | Over Limit (dB) | Detector | Remark |



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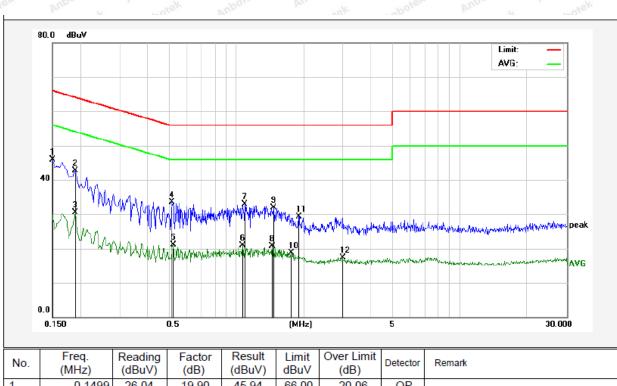
Conducted Emission Test Data

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

Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 24.9℃ Hum.: 51%



| No. | (MHz) | (dBuV) | (dB) | (dBuV) | dBuV | (dB) | Detector | Remark |
|-----|--------|--------|-------|--------|-------|--------|----------|--------|
| 1 | 0.1499 | 26.04 | 19.90 | 45.94 | 66.00 | -20.06 | QP | |
| 2 | 0.1900 | 22.79 | 19.90 | 42.69 | 64.03 | -21.34 | QP | |
| 3 | 0.1900 | 10.66 | 19.90 | 30.56 | 54.03 | -23.47 | AVG | |
| 4 | 0.5140 | 13.46 | 19.98 | 33.44 | 56.00 | -22.56 | QP | |
| 5 | 0.5220 | 1.07 | 19.99 | 21.06 | 46.00 | -24.94 | AVG | |
| 6 | 1.0660 | 0.72 | 20.12 | 20.84 | 46.00 | -25.16 | AVG | |
| 7 | 1.0900 | 12.86 | 20.12 | 32.98 | 56.00 | -23.02 | QP | |
| 8 | 1.4460 | 0.60 | 20.13 | 20.73 | 46.00 | -25.27 | AVG | |
| 9 | 1.4700 | 11.71 | 20.13 | 31.84 | 56.00 | -24.16 | QP | |
| 10 | 1.7580 | -1.39 | 20.14 | 18.75 | 46.00 | -27.25 | AVG | |
| 11 | 1.8980 | 9.11 | 20.14 | 29.25 | 56.00 | -26.75 | QP | |
| 12 | 2.9900 | -2.82 | 20.16 | 17.34 | 46.00 | -28.66 | AVG | |
| | | | | | | | | |



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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 | potek Anboti | -k PU | rek Anbotek |
|---------------|-------------------------|----------------------------------|-------------------|------------|--------------------------|
| | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | Aupo. | A. obotek | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | anbox. | k photek | 30 |
| | 1.705MHz-30MHz | 30 | otek Anbo | otek nobot | 30 |
| Test Limit | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | otek 3 Anbo |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | inbotek 3 |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | Ambo 3 |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | Arr 3 rest |
| | Al 4000MI | 500 | 54.0 | Average | 3,50,10 |
| | Above 1000MHz | Anbo. otek | 74.0 Miles | Peak | otek 3 Anbote |

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

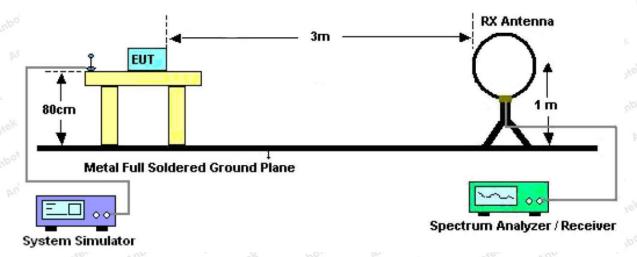


Figure 1. Below 30MHz



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Ant. feed point 1~4 m

Metal Full Soldered Ground Plane

Figure 2. 30MHz to 1GHz

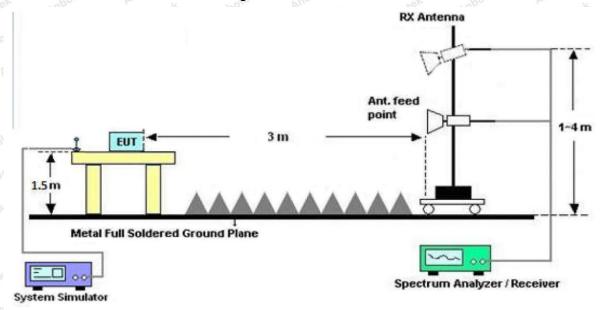


Figure 3. Above 1 GHz

4.3. Test Procedure

System Simulator

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.

Shenzhen Anbotek Compliance Laboratory Limited

Code: AB-RF-05-a

Spectrum Analyzer / Receiver



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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.

Hotline 400–003–0500 www.anbotek.com



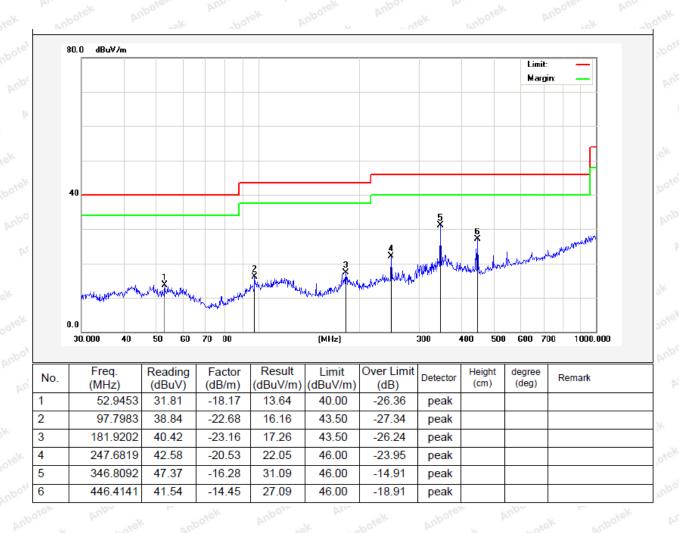
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Test Results (30~1000MHz)

Job No.: SZAWW190910006-01 Temp.(℃)/Hum.(%RH): 23.2℃/51%RH

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

Test Mode: 802.11b CH01 Polarization: Horizontal





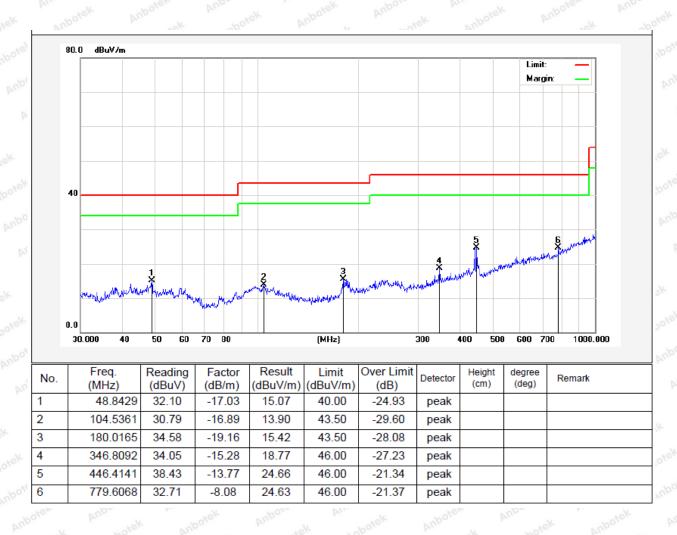
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Test Results (30~1000MHz)

Job No.: SZAWW190910006-01 Temp.(℃)/Hum.(%RH): 23.2℃/51%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 Mo | de | | Test | channel: Lov | west | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|-----------|
| | | | ı | 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 | 40.20 | 34.13 | 6.61 | 34.09 | 46.85 | 74.00 | -27.15 | V |
| 7236.00 | 34.16 | 37.14 | 7.74 | 34.51 | 44.53 | 74.00 | -29.47 | V |
| 9648.00 | 32.67 | 39.35 | 9.26 | 34.80 | 46.48 | 74.00 | -27.52 | V |
| 12060.00 | Anborek | Aupor | ek upo | ek Anb | over Aug | 74.00 | potek p | V |
| 14472.00 | *hotek | Aupo, | stek pr | potek (| upoter b | 74.00 | Anbotek | Vapo |
| 16884.00 | ek * Anbot | St. MU | otek | anborek | Aupor | 74.00 | Anbore | V |
| 4824.00 | 38.89 | 34.13 | 6.61 | 34.09 | 45.54 | 74.00 | -28.46 | Н |
| 7236.00 | 33.92 | 37.14 | 7.74 | 34.51 | 44.29 | 74.00 | -29.71 | H |
| 9648.00 | 32.26 | 39.35 | 9.26 | 34.80 | 46.07 | 74.00 | -27.93 | H |
| 12060.00 | Anbotek | Pupos | *8/4 *** | otek p | Upolon V | 74.00 | Anbotek | Vupo. |
| 14472.00 | k * Aupore | Ant | o. bi. | nbotek | Aupoten | 74.00 | Anbotek | H |
| 16884.00 | orek * Ant | otek | upo otek | anbotek | Aupore | 74.00 | Anborel | μН |
| | | | A | verage 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 |
| 4824.00 | 29.30 | 34.13 | 6.61 | 34.09 | 35.95 | 54.00 | -18.05 | V |
| 7236.00 | 23.03 | 37.14 | 7.74 | 34.51 | 33.40 | 54.00 | -20.60 | V |
| 9648.00 | 23.02 | 39.35 | 9.26 | 34.80 | 36.83 | 54.00 | -17.17 | V |
| 12060.00 | "hotek | Anbotek | Anborr | , nboi | ek Aupor | 54.00 | orek Ank | otek |
| 14472.00 | Ann. * otek | Anbore | Ambo | rek an | ootek Ani | 54.00 | botek | Aup Aug |
| 16884.00 | * nbotel | Anbr | J. S. Ville | notek | Anbotek | 54.00 | anbotek | V |
| 4824.00 | 28.43 | 34.13 | 6.61 | 34.09 | 35.08 | 54.00 | -18.92 | H |
| 7236.00 | 22.50 | 37.14 | 7.74 | 34.51 | 32.87 | 54.00 | -21.13 | Н |
| 9648.00 | 22.00 | 39.35 | 9.26 | 34.80 | 35.81 | 54.00 | -18.19 | otek H |
| 12060.00 | Anbe *otek | Anbotek | Anboro | lek "ul | otek Anb | 54.00 | hotek | nbotek |
| 14472.00 | And * botek | Anbo | Pupo | otek br. | nbotek | 54.00 | botek | P4Hc |
| 16884.00 | * * * | lek M | poles A | loo. | Aupotek | 54.00 | Ann | H, |

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Test Results (Above 1000MHz)

| Test Mode: | 802.11b Mo | de | | Test | channel: Mid | ddle | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|--------------------|-------------------|-----------------|-----------|
| | | | 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 | 39.28 | 34.35 | 6.67 | 34.09 | 46.21 | 74.00 | -27.79 | V |
| 7311.00 | 34.24 | 37.21 | 7.77 | 34.53 | 44.69 | 74.00 | -29.31 | V |
| 9748.00 | 33.70 | 39.45 | 9.33 | 34.80 | 47.68 | 74.00 | -26.32 | V |
| 12185.00 | Anborek | Aupor | ek upo | ek Aup | over Aug | 74.00 | potek p | V |
| 14622.00 | *hotek | Aupo, | stek pr | potek (| upoter b | 74.00 | Anbotek | Vapo |
| 17059.00 | ek * Anbot | St. MU | otek | anborek | Aupor | 74.00 | Anbore | V |
| 4874.00 | 39.77 | 34.35 | 6.67 | 34.09 | 46.70 | 74.00 | -27.30 | Н |
| 7311.00 | 32.89 | 37.21 | 7.77 | 34.53 | 43.34 | 74.00 | -30.66 | H |
| 9748.00 | 33.59 | 39.45 | 9.33 | 34.80 | 47.57 | 74.00 | -26.43 | H |
| 12185.00 | Anbotek | Pupos | *8/4 *** | otek p | Upolon V | 74.00 | Anbotek | Vupo, |
| 14622.00 | k * Aupore | Ant | o. br. | nbotek | Aupoten | 74.00 | Anbotek | H |
| 17059.00 | otek * Ant | otek | hupo. | anbotek | Aupor | 74.00 | Anbotek | Н |
| 3.0 | | | A | verage Valu | ie | 833 | | |
| 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 | 30.14 | 34.35 | 6.67 | 34.09 | 37.07 | 54.00 | -16.93 | V |
| 7311.00 | 22.56 | 37.21 | 7.77 | 34.53 | 33.01 | 54.00 | -20.99 | V |
| 9748.00 | 22.95 | 39.45 | 9.33 | 34.80 | 36.93 | 54.00 | -17.07 | V |
| 12185.00 | notek | Anborek | Anborr | , upoi | ek Anbor | 54.00 | otek Ank | V |
| 14622.00 | An * botek | Anbore | Anbo | sek vo | ootek Anl | 54.00 | botek | Aup Aug |
| 17059.00 | * abotel | Anbo | Ser Vup | notek | Anbotek Anbotek | 54.00 | abotek | V |
| 4874.00 | 29.88 | 34.35 | 6.67 | 34.09 | 36.81 | 54.00 | -17.19 | H |
| 7311.00 | 21.98 | 37.21 | 7.77 | 34.53 | 32.43 | 54.00 | -21.57 | Н |
| 9748.00 | 23.31 | 39.45 | 9.33 | 34.80 | 37.29 | 54.00 | -16.71 | otek H |
| 12185.00 | Anbo *otek | Anbotek | Anbore | iek - vi | otek Anb | 54.00 | hotek | nbohel |
| 14622.00 | Amb. | Anbo | tek Anbo | stek bu | nbotek | 54.00 | botek | PUFF |
| 17059.00 | * * ** | lek bi | potek Ar | po, | Anborek | 54.00 | Ann | H, |

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Test Results (Above 1000MHz)

| est ivesuit | S (ADOVE 10 | OUIVIT 12) | Anbo | h. rek | abore | Villa | u work | N. |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|--------------------|------------------|
| Test Mode: | 802.11b Mo | de | | Test | channel: Hig | hest | | |
| | | | 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. |
| 4924.00 | 44.75 | 34.57 | 6.74 | 34.09 | 51.97 | 74.00 | -22.03 | $\Lambda_{i,ij}$ |
| 7386.00 | 34.89 | 37.29 | 7.80 | 34.55 | 45.43 | 74.00 | -28.57 | V |
| 9848.00 | 36.97 | 39.55 | 9.41 | 34.81 | 51.12 | 74.00 | -22.88 | V ^{yek} |
| 12310.00 | Aupor* | -hotek | Anbore | Vur | stek anbi | 74.00 | o V | Voce |
| 14772.00 | Anhor | Pu. | ek anboi | S. Aur | *e/ | 74.00 | UDO | V |
| 17234.00 | Ahbore | N DUG | otek an | potek | Jupo, Pak | 74.00 | Aupole | V |
| 4924.00 | 44.08 | 34.57 | 6.74 | 34.09 | 51.30 | 74.00 | -22.70 | Anto |
| 7386.00 | 33.80 | 37.29 | 7.80 | 34.55 | 44.34 | 74.00 | -29.66 | Н |
| 9848.00 | 33.15 | 39.55 | 9.41 | 34.81 | 47.30 | 74.00 | -26.70 | Helk H |
| 12310.00 | Yupo. * | abotek. | Aupore. | Kun | tek anbo | 74.00 | re/ | Prode |
| 14772.00 | Anber | Pri. | k Anbor | VUD. | otek or | 74.00 | Po, b | He |
| 17234.00 | A*/pore | N BUT | otek ant | otek p | No. vek | 74.00 | Aupore | H |
| - 55. | | | Av | verage Valu | ie | 100 | .0.1 | |
| 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 | 35.68 | 34.57 | 6.74 | 34.09 | 42.90 | 54.00 | -11.10 | boteV |
| 7386.00 | 24.80 | 37.29 | 7.80 | 34.55 | 35.34 | 54.00 | -18.66 | AUP ASA |
| 9848.00 | 25.48 | 39.55 | 9.41 | 34.81 | 39.63 | 54.00 | -14.37 | Voo |
| 12310.00 | *47000 | ·ok | spotek p | upote | Vier Piek | 54.00 | Aupo. | V |
| 14772.00 | otek * Aup | D | hotek | Anbore | Amb | 54.00 | Aupor | V |
| 17234.00 | abotek* P | upote | Aug Polek | Anbotek | VUPP | 54.00 | Anbo | V |
| 4924.00 | 34.45 | 34.57 | 6.74 | 34.09 | 41.67 | 54.00 | -12.33 | POTOH |
| 7386.00 | 23.19 | 37.29 | 7.80 | 34.55 | 33.73 | 54.00 | -20.27 | Anber |
| 9848.00 | 22.41 | 39.55 | 9.41 | 34.81 | 36.56 | 54.00 | -17.44 | "Ho, |
| 12310.00 | * | rek . | doorek A | upo. | botek | 54.00 | Yup. Tek | Н |
| 14772.00 | Kek * Anb | .ek | abotek | Aupoter | Andrek | 54.00 | Aupo. | ж Н |
| 17234.00 | botek * A | upo, | Pri. | Anborek | Aup | 54.00 | k Anbox | ДН |

Remark:

- 1. During the test, pre-scan the 802.11b,g,n(HT20N) 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.

Shenzhen Anbotek Compliance Laboratory Limited





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Radiated Band Edge:

| Test Mode: | 802.11b Mo | de | | Test | channel: Lov | west | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|------------|
| | | | 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 | 52.50 | 29.15 | 3.41 | 34.01 | 51.05 | 74.00 | -22.95 | H |
| 2400.00 | 61.80 | 29.16 | 3.43 | 34.01 | 60.38 | 74.00 | -13.62 | H |
| 2390.00 | 54.24 | 29.15 | 3.41 | 34.01 | 52.79 | 74.00 | -21.21 | V |
| 2400.00 | 63.82 | 29.16 | 3.43 | 34.01 | 62.40 | 74.00 | -11.60 | ,nbo'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 | 39.02 | 29.15 | 3.41 | 34.01 | 37.57 | 54.00 | -16.43 | H H |
| 2400.00 | 47.40 | 29.16 | 3.43 | 34.01 | 45.98 | 54.00 | -8.02 | hotek H |
| 2390.00 | 40.90 | 29.15 | 3.41 | 34.01 | 39.45 | 54.00 | -14.55 | Antorek |
| 2400.00 | 48.59 | 29.16 | 3.43 | 34.01 | 47.17 | 54.00 | -6.83 | Vipo |

| Test Mode: | 802.11b Mo | de | | Test | t channel: Hig | hest | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|--------------------|------------|
| | | | 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 | 53.52 | 29.28 | 3.53 | 34.03 | 52.30 | 74.00 | -21.70 | H |
| 2500.00 | 49.08 | 29.30 | 3.56 | 34.03 | 47.91 | 74.00 | -26.09 | alk H |
| 2483.50 | 55.95 | 29.28 | 3.53 | 34.03 | 54.73 | 74.00 | -19.27 | otelV |
| 2500.00 | 51.75 | 29.30 | 3.56 | 34.03 | 50.58 | 74.00 | -23.42 | V |
| 7.17 | | - 110 | Av | erage Valu | ie | | | 110 |
| 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 | 39.51 | 29.28 | 3.53 | 34.03 | 38.29 | 54.00 | -15.71 | H |
| 2500.00 | 35.45 | 29.30 | 3.56 | 34.03 | 34.28 | 54.00 | -19.72 | H |
| 2483.50 | 41.53 | 29.28 | 3.53 | 34.03 | 40.31 | 54.00 | -13.69 | Tupo A *ek |
| 2500.00 | 37.36 | 29.30 | 3.56 | 34.03 | 36.19 | 54.00 | -17.81 | P.Opo. |

Remark:

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

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Radiated Band Edge:

| Test Mode: | 802.11g Mo | de | | Tes | t channel: Lov | west | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|--------|
| | | | F | Peak Value | 9 | | | |
| 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 | 51.33 | 27.53 | 5.47 | 33.92 | 50.41 | 74.00 | -23.59 | H |
| 2400.00 | 60.24 | 27.55 | 5.49 | 29.93 | 63.35 | 74.00 | -10.65 | Н |
| 2390.00 | 52.99 | 27.53 | 5.47 | 33.92 | 52.07 | 74.00 | -21.93 | V |
| 2400.00 | 61.95 | 27.55 | 5.49 | 29.93 | 65.06 | 74.00 | -8.94 | Vodn |
| 100 | | | Av | erage Val | ue | | | -11 |
| 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 | 38.19 | 27.53 | 5.47 | 33.92 | 37.27 | 54.00 | -16.73 | H |
| 2400.00 | 46.45 | 27.55 | 5.49 | 29.93 | 49.56 | 54.00 | -4.44 | nbotek |
| 2390.00 | 39.98 | 27.53 | 5.47 | 33.92 | 39.06 | 54.00 | -14.94 | AULA |
| 2400.00 | 47.55 | 27.55 | 5.49 | 29.93 | 50.66 | 54.00 | -3.34 | V/o |

| Test Mode: | 802.11g Mod | е | | Test | channel: Hig | hest | | |
|--------------------|----------------------|-----------------------------|--------------------|--------------------------|-------------------|-------------------|-----------------|---------|
| | | | 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 | 51.85 | 29.28 | 3.53 | 34.03 | 50.63 | 74.00 | -23.37 | H |
| 2500.00 | 47.78 | 29.30 | 3.56 | 34.03 | 46.61 | 74.00 | -27.39 | ek H |
| 2483.50 | 54.05 | 29.28 | 3.53 | 34.03 | 52.83 | 74.00 | -21.17 | V |
| 2500.00 | 50.23 | 29.30 | 3.56 | 34.03 | 49.06 | 74.00 | -24.94 | V |
| | | 7.13 | Av | erage Valu | ie | I- | | 1-12 |
| 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 | 38.50 | 29.28 | 3.53 | 34.03 | 37.28 | 54.00 | -16.72 | H A |
| 2500.00 | 34.66 | 29.30 | 3.56 | 34.03 | 33.49 | 54.00 | -20.51 | H |
| 2483.50 | 40.42 | 29.28 | 3.53 | 34.03 | 39.20 | 54.00 | -14.80 | Vupolen |
| 2500.00 | 36.53 | 29.30 | 3.56 | 34.03 | 35.36 | 54.00 | -18.64 | MACONE |

Remark:

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

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Radiated Band Edge:

| Test Mode: | 802.11n20 M | Mode | | Tes | 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 | 50.91 | 27.53 | 5.47 | 33.92 | 49.99 | 74.00 | -24.01 | Hant | |
| 2400.00 | 59.67 | 27.55 | 5.49 | 29.93 | 62.78 | 74.00 | -11.22 | H | |
| 2390.00 | 52.54 | 27.53 | 5.47 | 33.92 | 51.62 | 74.00 | -22.38 | V | |
| 2400.00 | 61.27 | 27.55 | 5.49 | 29.93 | 64.38 | 74.00 | -9.62 | nbolv a | |
| | | | Av | erage Val | 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 | 37.88 | 27.53 | 5.47 | 33.92 | 36.96 | 54.00 | -17.04 | tek H | |
| 2400.00 | 46.10 | 27.55 | 5.49 | 29.93 | 49.21 | 54.00 | -4.79 | hotek H | |
| 2390.00 | 39.64 | 27.53 | 5.47 | 33.92 | 38.72 | 54.00 | -15.28 | Antorek | |
| 2400.00 | 47.17 | 27.55 | 5.49 | 29.93 | 50.28 | 54.00 | -3.72 | Vipo | |

| 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 | 51.25 | 29.28 | 3.53 | 34.03 | 50.03 | 74.00 | -23.97 | H | | |
| 2500.00 | 47.31 | 29.30 | 3.56 | 34.03 | 46.14 | 74.00 | -27.86 | ek H | | |
| 2483.50 | 53.36 | 29.28 | 3.53 | 34.03 | 52.14 | 74.00 | -21.86 | V | | |
| 2500.00 | 49.68 | 29.30 | 3.56 | 34.03 | 48.51 | 74.00 | -25.49 | V | | |
| | | 7.17 | Av | erage Valu | ie | I- | | 1 | | |
| 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 | 38.14 | 29.28 | 3.53 | 34.03 | 36.92 | 54.00 | -17.08 | Н | | |
| 2500.00 | 34.38 | 29.30 | 3.56 | 34.03 | 33.21 | 54.00 | -20.79 | o ^{ter} H | | |
| 2483.50 | 40.02 | 29.28 | 3.53 | 34.03 | 38.80 | 54.00 | -15.20 | Vupoter I | | |
| 2500.00 | 36.23 | 29.30 | 3.56 | 34.03 | 35.06 | 54.00 | -18.94 | AIVOTO | | |

Remark:

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

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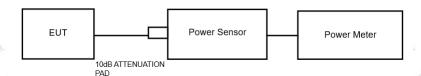
Report No.: SZAWW191011003-01 FCC ID: WQ8MAXIVIDEOMV160 Page 26 of 63

5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.247 (b)(3) | Anbotek | Anbo | upotek |
|---------------|------------------------------------|---------|-----------|--------|
| Test Limit | 30dBm | Anborek | Anbountek | anbo |

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 | : | Max. peak output power | Test Mode | : | CH Low ~ CH High |
|--------------|---|------------------------|-------------|---|------------------|
| Test Voltage | : | DC 3.7V Battery inside | Temperature | : | 24 ℃ |
| Test Result | : | PASS | Humidity | : | 55%RH |

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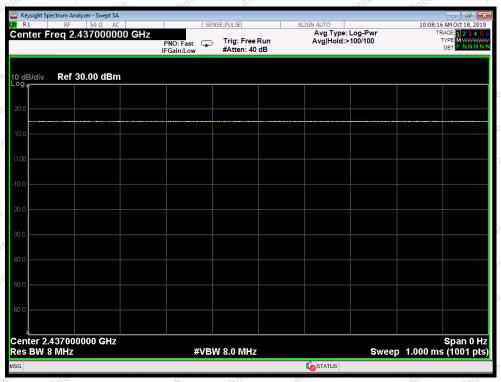
| Test Channel | | Frequency (MHz) | | Maximum Peak Conducted Output Power (PK) (dBm) | Limit dBm | Results | |
|--------------|-------|-----------------|--------|--|-----------------|------------|--|
| Anborek | Anbo | tek Aupo. | otek | TX 802.11b Mode | Anbotek Anbote | ek Anbo. | |
| CH01 | P. | 2412 | nbotek | 14.05 | 30 Anb | PASS | |
| CH06 | ek. | 2437 | Anloo | 14.31 | 30 | PASS | |
| CH11 | potek | 2462 | F P3 | 14.30 | 30 | PASS | |
| Anbotek | Anboi | ek Anbo | otek | TX 802.11g Mode | Anbotek Anbotek | Anborek | |
| CH01 | An | 2412 | nbotek | 13.29 | 30 | PASS | |
| CH06 | 3/4 | 2437 | Vupo, | 15.25 | 30 | PASS | |
| CH11 | otek | 2462 | P.O | 15.78 | 30 | PASS | |
| Anbotek | Anbor | stek Vupo | ISK | TX 802.11n(20) Mode | Anbotek Anbotek | ek Aupotek | |
| CH01 | Ant | 2412 | hotek | 13.33 | 30 | PASS | |
| CH06 | 14- | 2437 | Aupor | 15.34 | 30 | PASS | |
| CH11 | otek | 2462 | Vu, | 15.57 And | 30 | PASS | |

Note: For power test the duty cycle is 100% in continuous transmitting mode. Please see the plot of next page

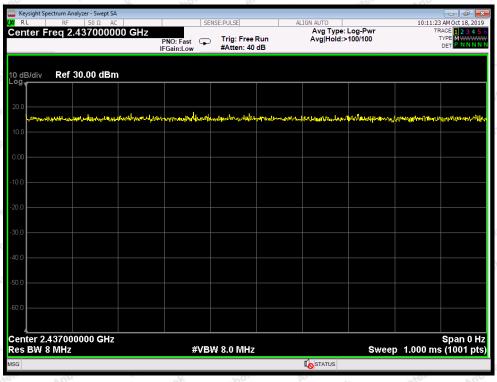


FCC ID: WQ8MAXIVIDEOMV160 **Duty Cycle**

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802.11b mode



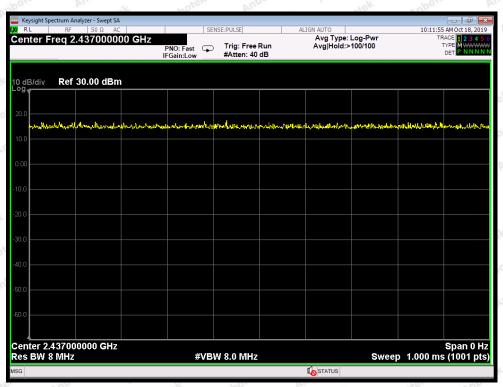
802.11g mode

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802.11n(HT20) mode



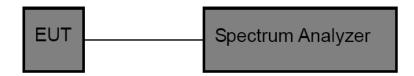
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6. 6DB Occupy Bandwidth Test

6.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.247 (a)(2) | Anboten | Anbu | Anbotek |
|---------------|------------------------------------|---------|------|---------|
| Test Limit | >500kHz | Anbore | Anu | Anbole |

6.2. Test Setup



6.3. Test Procedure

- 1. Place the EUT on the table and set it in the transmitting mode.
- Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the 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 Temperature : 24℃

Test Result : PASS Humidity : 55%RH

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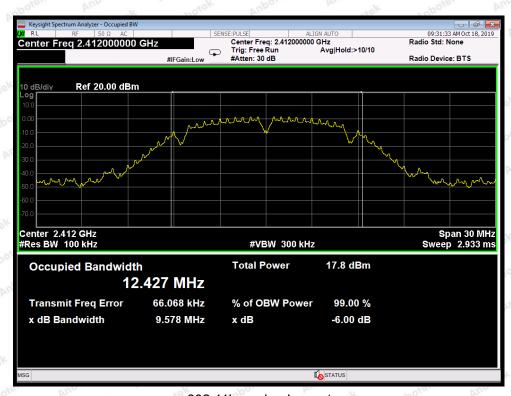
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| Mode | Channel | Frequency (MHz) | Bandwidth (MHz) | Limit (kHz) | Results |
|------------|---------|--------------------|--------------------|----------------|---------|
| Anbotek A | Low | 2412 | 9.578 | Anborek Ant | PASS |
| 802.11b | Middle | 2437 | 9.572 | >500 | PASS |
| ek Anbotek | High | 2462 | 9.110 | otek Anbotek | PASS |
| otek Anbo | Low | 2412 | 15.34 | Anbotek Anbote | PASS |
| 802.11g | Middle | 2437 | 15.16 | >500 | PASS |
| Anbore | High | 2462 | 15.34 | k Anbore A | PASS |
| k Aupolek | Low | 2412 | 15.33 | otek Anbotek | PASS |
| 802.11n20 | Middle | 2437 | 15.95 | >500 | PASS |
| inbotek An | High | 2462 | 16.10 | Anbotek Anbo | PASS |



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802.11b mode: Lowest

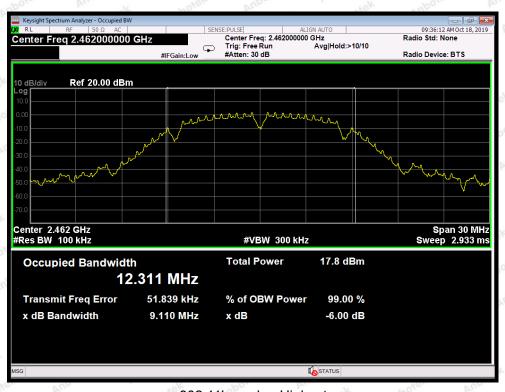


802.11b mode: Middle

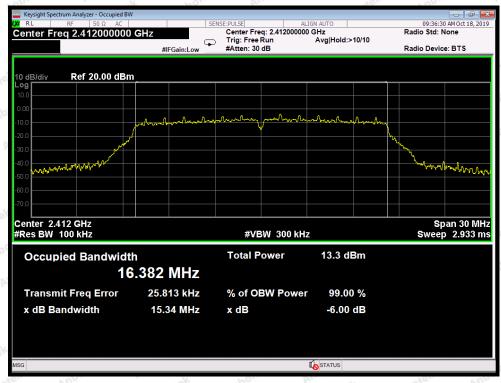


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802.11b mode: Highest

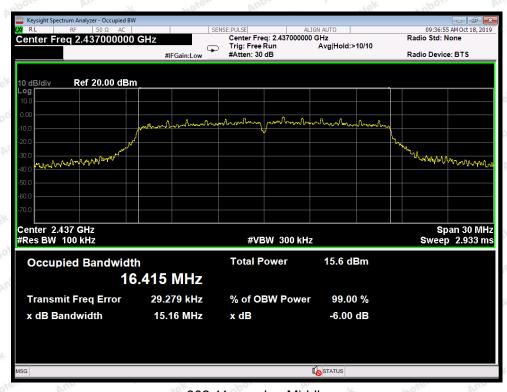


802.11g mode: Lowest



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802.11g mode: Middle

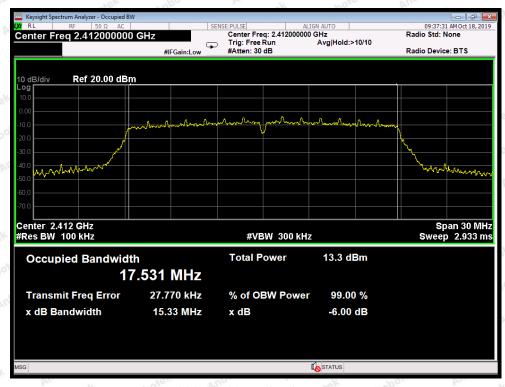


802.11g mode: Highest

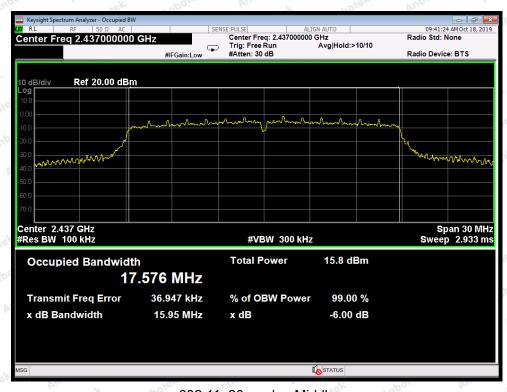


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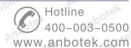


802.11n20 mode : Lowest



802.11n20 mode : Middle

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802.11n20 mode: Highest



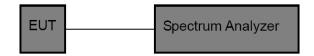
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7. Power Spectral Density Test

7.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section | Ar. abotek | Anboten | Ann | Anborek |
|---------------|----------------------|------------|---------|-----|---------|
| Test Limit | 8dBm/3KHz | A. abotek | Anbore | Ann | Anboile |

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 : 24 $^{\circ}$ C Test Result : PASS Humidity : 55 $^{\circ}$ RH

| Mode | Channel | Frequency (MHz) | PSD (dBm/3KHz) | Limit (dBm/3KHz) | Results |
|-------------|-----------|--------------------|-------------------|---------------------|---------|
| tek anbot | Low | 2412 | -13.029 | 8.00 | PASS |
| 802.11b | Middle | 2437 | -12.756 | 8.00 | PASS |
| upo, sek | High Anbo | 2462 | -13.448 | 8.00 | PASS |
| Yupo. | Low | 2412 | -17.792 | 8.00 | PASS |
| 802.11g | Middle | 2437 | -15.160 | 8.00 | PASS |
| Anboy | High | 2462 | -15.974 | 8.00 | PASS |
| Jieje Pupor | Low | 2412 | -19.231 | 8.00 | PASS |
| 802.11n20 | Middle | 2437 | -15.500 | 8.00 | PASS |
| Anbotek | High | 2462 | -17.149 | 8.00 | PASS |

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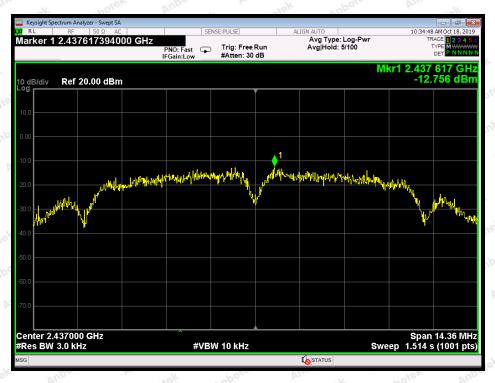


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802.11b mode: Lowest

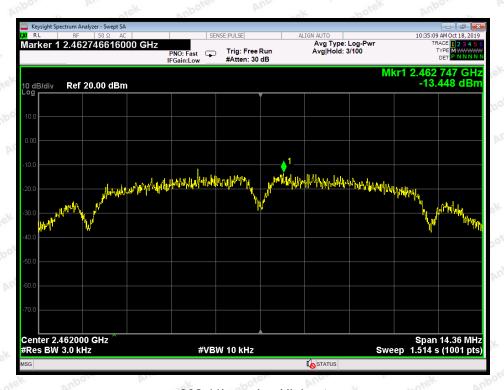


802.11b mode: Middle

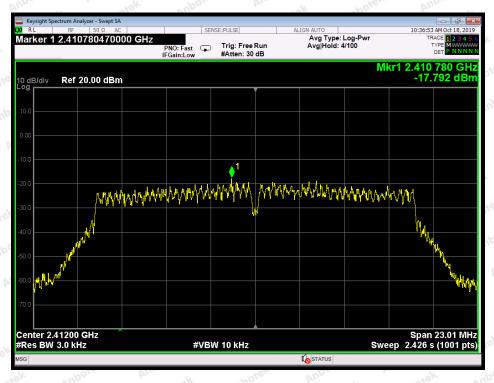


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802.11b mode: Highest

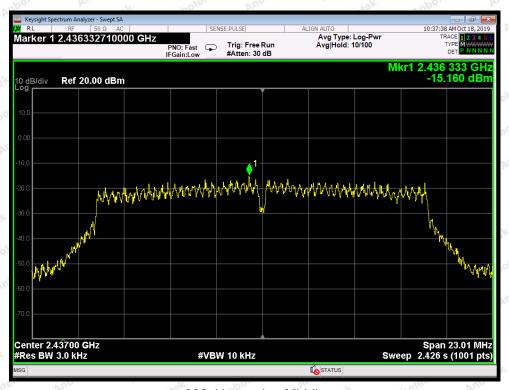


802.11g mode: Lowest



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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



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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) |
|---------------|--|
| | 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 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 I | High |
|--------------|---|------------------------|-------------|---|---------------|------|
| Test Voltage | : | DC 3.7V Battery inside | Temperature | : | 24℃ | |
| Test Result | | PASS | Humidity | | 55%RH | |

| Mode | Frequency Band | Delta Peak to Band Emission | Limit | Dogulto | |
|-----------|----------------|-----------------------------|-------|---------|--|
| Mode | (MHz) | (dBc) | (dBc) | Results | |
| 002 11h | 2412 | 48.691 | >20 | PASS | |
| 802.11b | 2462 | 56.030 | >20 | PASS | |
| 902.116 | 2412 | 38.065 | >20 | PASS | |
| 802.11g | 2462 | 41.415 | >20 | PASS | |
| 902 11=20 | 2412 | 39.269 | >20 | PASS | |
| 802.11n20 | 2462 | 38.939 | >20 | PASS | |

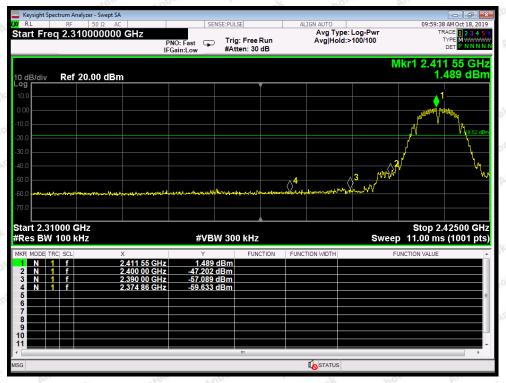
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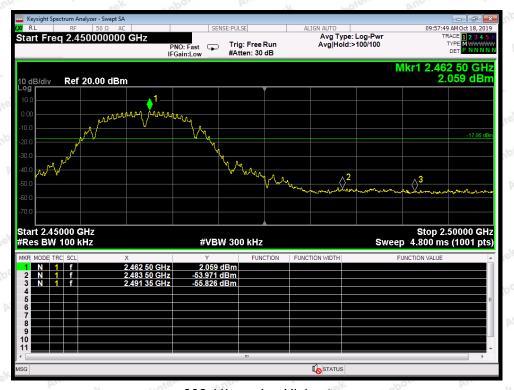


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802.11b mode: Lowest

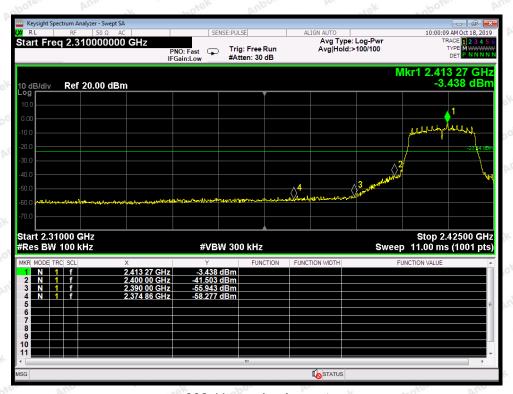


802.11b mode: Highest



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802.11g mode: Lowest

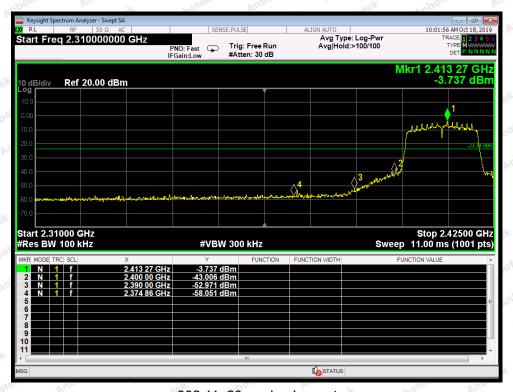


802.11g mode: Highest



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802.11n20 mode : Lowest



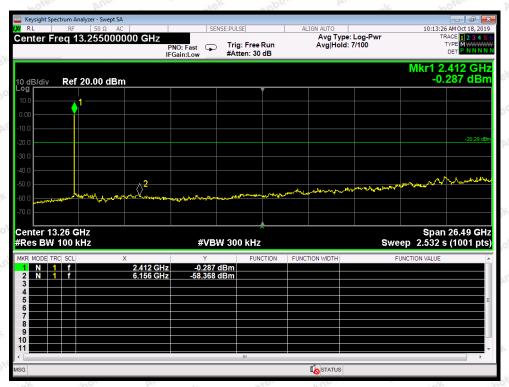
802.11n20 mode: Highest



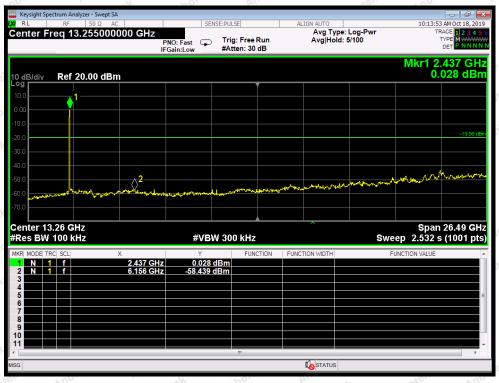
FCC ID: WQ8MAXIVIDEOMV160

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Conducted Emission Method



802.11b mode: Lowest

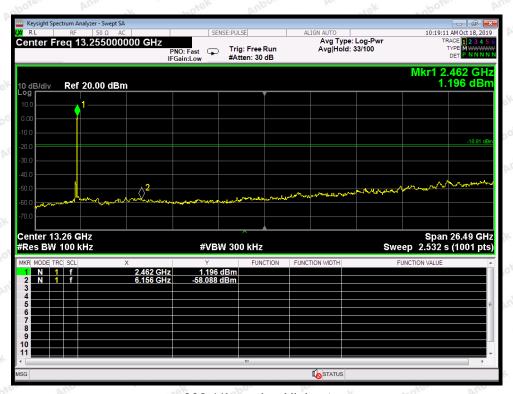


802.11b mode: Middle

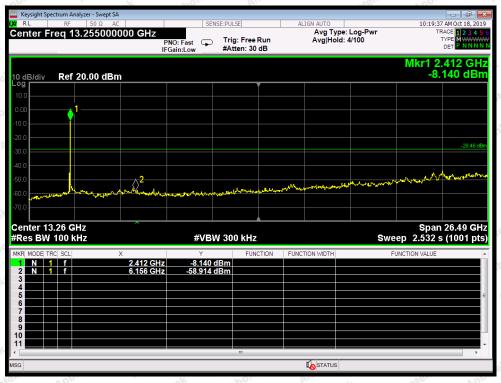


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802.11b mode: Highest

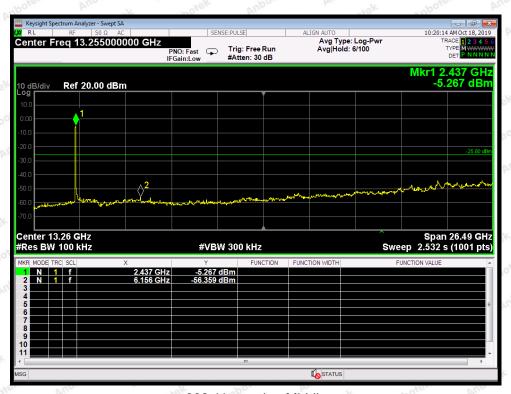


802.11g mode: Lowest

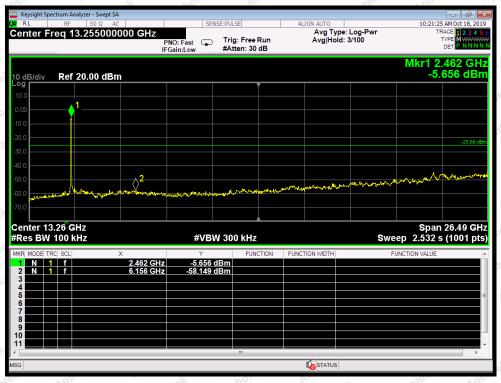


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802.11g mode: Middle

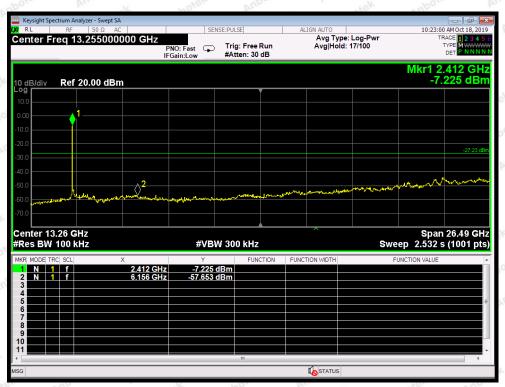


802.11g mode: Highest

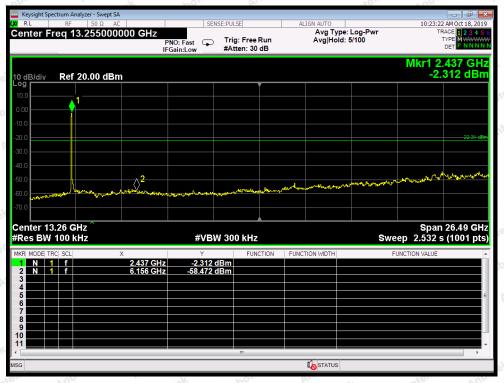


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802.11n20 mode : Lowest

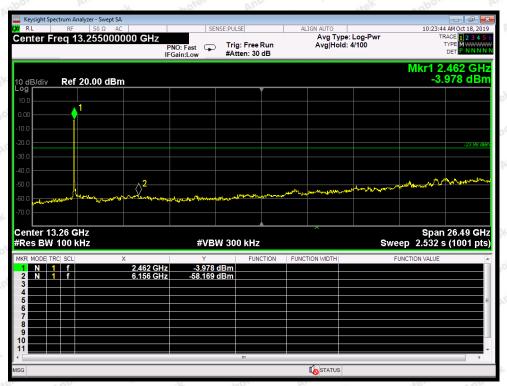


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802.11n20 mode: Highest



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9. Antenna Requirement

9.1. Test Standard and Requirement

| Test Standard | FCC Part15 Section 15.203 /247(c) |
|---------------|---|
| | 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 |
| Requirement | 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 FPCB Antenna which permanently attached, and the best case gain of the antenna is 1.4 dBi It complies with the standard requirement.



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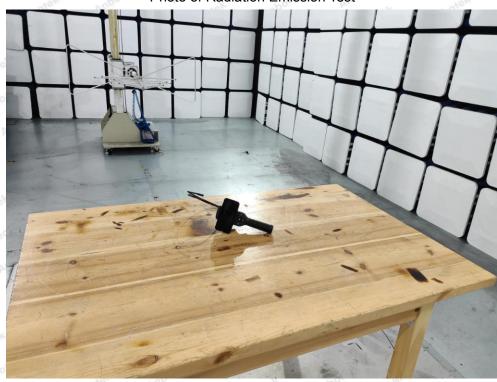
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APPENDIX I -- TEST SETUP PHOTOGRAPH

Photo of Power Line Conducted Emission Test



Photo of Radiation Emission Test





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APPENDIX II -- EXTERNAL PHOTOGRAPH





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APPENDIX III -- INTERNAL PHOTOGRAPH



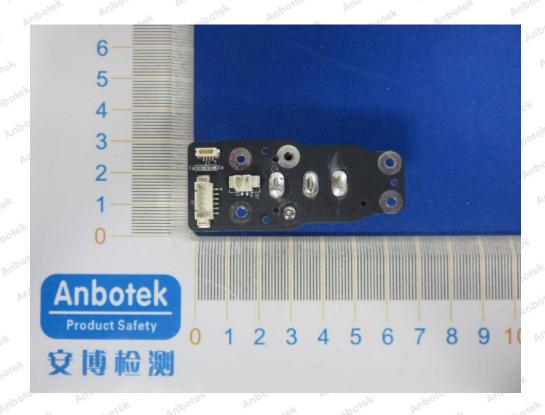


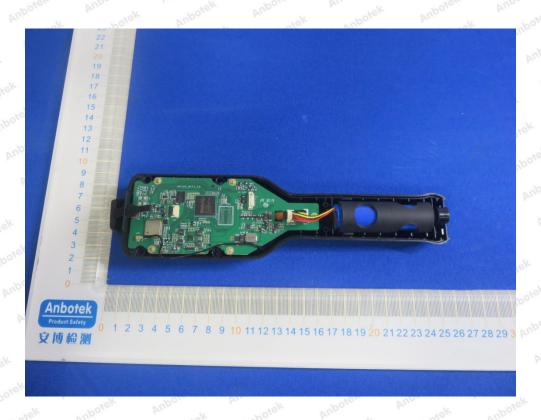
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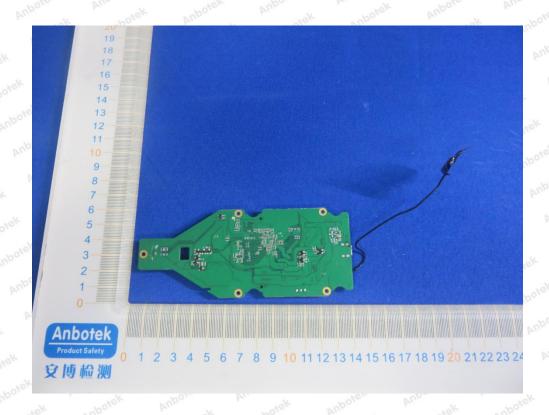




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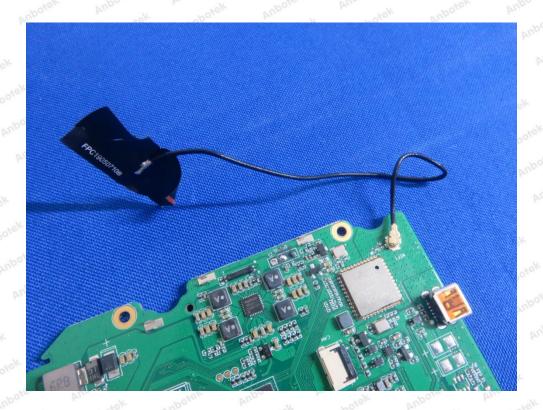






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End of Report