

TEST REPORT

| Report No. ·····: | KS2204S1365E02 | | |
|--|--|--|--|
| FCC ID······: | 2AO94-LW001BGPRO | | |
| Applicant······: | MOKO TECHNOLOGY LIM | IITED | |
| Address | Factory 201, 107 Pinshun F Longhua , Shenzhen,China | Rd Guixiang community, Guanlan Street, 518110 | |
| Manufacturer······ | MOKO TECHNOLOGY LIM | IITED | |
| Address······ | Factory 201, 107 Pinshun F Longhua , Shenzhen,China | Rd Guixiang community, Guanlan Street, 518110 | |
| Product Name·····: | Smart Tracker | | |
| Trade Mark······: | N/A | | |
| Model/Type reference······: | LW001-BG PRO | | |
| Listed Model(s) ······ | N/A | | |
| Standard: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 | | |
| Date of receipt of test sample: | April 09, 2022 | | |
| Date of testing | April 09, 2022~May 09, 202 | 2 | |
| Date of issue | May 09, 2022 | | |
| Result: | PASS | | |
| prepare by: (Printed Name + Signature) | Sky dong | shy dang | |
| Approved by: | | Noil Wan | |
| (Printed Name + Signature) | Neil Wan | /ren own | |
| Testing Laboratory Name······: Address | West Side of 1/E Building C Zone A Euviran New Eastory Juliu | | |

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TRF No. FCC Part 15.247_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



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1.TEST SUMMARY

1.1. TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

KDB 558074 D01 : The measurement guidance provided herein is applicable only to Digital Transmission System (DTS) devices operating in the 902-928 MHz. 2400-2483.5 MHz and/or 5725-5850 MHz bands under §15.247 of the FCC rules (Title 47 of the Code of Federal Regulations).

1.2. REPORT VERSION

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01 | May 09, 2022 | Original |

TRF No. FCC Part 15.247_R1



1.3. TEST DESCRIPTION

| FCC Part 15 Subpart C(15.247) | | | | |
|--|------------------|--------|------------------|--|
| Tood House | Standard Section | Decel | Test Engineer | |
| Test Item | FCC | Result | | |
| Antenna Requirement | 15.203 | Pass | Allen Li | |
| Conducted Emission | 15.207 | N/A | Allen Li | |
| 6dB&99% Bandwidth | 15.247(a)(2) | Pass | Allen Li | |
| Peak Output Power | 15.247(b) | Pass | Allen Li | |
| Power Spectral Density | 15.247(e) | Pass | Allen Li | |
| Restricted Band | 15.247(d)/15.205 | Pass | Allen Li | |
| Band Edge and Spurious Emission(Conducted) | 15.247(d) | Pass | Allen Li | |
| Spurious Emission(Radiated) | 15.247(d)&15.209 | Pass | Allen Li | |

Note: The measurement uncertainty is not included in the test result.

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Address of the report laboratory

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, People's Republic of China

Laboratory accreditation

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

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

IC Registration No.: CN0096

The 3m alternate test site of KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered by Certification and Engineer Bureau of Industry Canada for the performance of with Registration NO.: CN0096

FCC-Registration No.: CN1272

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.



1.5. MEASUREMENT UNCERTAINTY

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to TR-100028-01" Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 1" and TR-100028-02 "Electromagnetic compatibility and Radio spectrum Matters (ERM);Uncertainties in the measurement of mobile radio equipment characteristics; Part 2 " and is documented in the KSIGN(Guangdong) Testing Co., Ltd. system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device. Below is the best measurement capability for KSIGN(Guangdong) Testing Co., Ltd.

| Test Items | Measurement Uncertainty | Notes |
|---|-------------------------|-------|
| Transmitter power conducted | 0.42 dB | (1) |
| Transmitter power Radiated | 2.14 dB | (1) |
| Conducted spurious emissions 9kHz~40GHz | 1.60 dB | (1) |
| Radiated spurious emissions 9kHz~40GHz | 2.20 dB | (1) |
| Conducted Emissions 9kHz~30MHz | 3.20 dB | (1) |
| Radiated Emissions 30~1000MHz | 4.70 dB | (1) |
| Radiated Emissions 1~18GHz | 5.00 dB | (1) |
| Radiated Emissions 18~40GHz | 5.54 dB | (1) |
| Occupied Bandwidth | 2.80 dB | (1) |

Note (1): This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=1.96.

1.6. ENVIRONMENTAL CONDITIONS

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

| Temperature: | 15~35°C |
|--------------------|-------------|
| Relative Humidity: | 30~60 % |
| Air Pressure: | 950~1050mba |

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2. GENERAL INFORMATION

2.1. GENERAL DESCRIPTION OF EUT

| Test Sample Number: | 1-1-1(Normal Sample),1-1-2(Engineering Sample) |
|------------------------|--|
| Product Name: | Smart Tracker |
| Trade Mark: | N/A |
| Model/Type reference: | LW001-BG PRO |
| Listed Model(s): | N/A |
| Model Different: | N/A |
| Power supply(Adapter): | N/A |
| Power supply(Battery): | DC 3.65V From Battery |
| Hardware version: | LW001_BG_V2.4 |
| Software version: | V1.0 |
| 2.4GHz WIFI | |
| Modulation: | 802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(BPSK,QPSK,16QAM,64QAM) |
| Operation frequency: | 802.11b/g/n(HT20): 2412MHz~2462MHz |
| Max Peak Output Power: | 802.11b: 9.14 dBm 802.11g: 9.50 dBm 802.11n (HT20): 9.36 dBm |
| Channel number: | 802.11b/g/n(HT20):11 channels |
| Test frequency: | CH01: 2412MHz; CH06: 2437MHz;CH11: 2462MHz |
| Channel separation: | 5MHz |
| Antenna type: | PCB Antenna |
| | |
| Antenna gain: | 3.77 dBi |

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2.2. OPERATION STATE

Operation Frequency List: The EUT has been tested under typical operating condition. The Applicant provides communication tools software to control the EUT for staying in continuous transmitting and receiving mode for testing.

Operation Frequency List:

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

Note:

1.CH 01~CH 11 for 802.11b/g/n(HT20).

2. The display in grey were the channel selected for testing.

Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit (duty cycle>98%).

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

The engineering test program was provided and enabled to make EUT continuous transmit(duty cycle>98%). The EUT in each of three orthogonal axis emissions had been tested ,but only the worst case (X axis) data Recorded in the report.

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2.3. MEASUREMENT INSTRUMENTS LIST

| | Tonscend JS0806-2 Test system | | | | |
|------|--|--------------|-----------|------------|------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| 1 | Spectrum Analyzer | R&S | FSV40-N | 101798 | 04/07/2022 |
| 2 | Vector Signal Generator | Agilent | N5182A | MY50142520 | 04/07/2022 |
| 3 | Analog Signal Generator | HP | 83752A | 3344A00337 | 04/07/2022 |
| 4 | Power Sensor | Agilent | E9304A | MY50390009 | 04/07/2022 |
| 5 | Power Sensor | Agilent | E9300A | MY41498315 | 04/07/2022 |
| 6 | Wideband Radio Communication Tester | R&S | CMW500 | 157282 | 04/07/2022 |
| 7 | Climate Chamber | Angul | AGNH80L | 1903042120 | 04/07/2022 |
| 8 | Dual Output DC Power Supply | Agilent | E3646A | MY40009992 | 04/07/2022 |
| 9 | RF Control Unit | Tonscend | JS0806-2 | / | 04/07/2022 |

| | Transmitter spurious emissions & Receiver spurious emissions | | | | |
|------|--|------------------------|------------------|------------|------------|
| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| 1 | EMI Test Receiver | R&S | ESR | 102525 | 04/07/2022 |
| 2 | High Pass Filter | Chengdu E-Microwave | OHF-3-18-S | 0E01901038 | 03/27/2022 |
| 3 | High Pass Filter | Chengdu E-Microwave | OHF-6.5-18- S | 0E01901039 | 03/27/2022 |
| 4 | Spectrum Analyzer | HP | 8593E | 3831U02087 | 04/07/2022 |
| 5 | Ultra-Broadband logarithmic period Antenna | Schwarzbeck | VULB 9163 | 01230 | 03/29/2023 |
| 6 | Loop Antenna | Beijin ZHINAN | ZN30900C | 18050 | 03/25/2022 |
| 7 | Spectrum Analyzer | R&S | FSV40-N | 101798 | 04/07/2022 |
| 8 | Horn Antenna | Schwarzbeck | BBHA 9120 D | 2023 | 03/29/2023 |
| 9 | Pre-Amplifier | Schwarzbeck | BBV 9745 | 9745#129 | 04/07/2022 |
| 10 | Pre-Amplifier | EMCI | EMC051835 SE | 980662 | 04/07/2022 |
| 11 | Pre-Amplifier | Schwarzbeck | BBV-9721 | 57 | 04/07/2022 |
| 12 | Horn Antenna | Schwarzbeck | BBHA 9170 | 00939 | 03/29/2022 |

| Item | Test Equipment | Manufacturer | Model No. | Serial No. | Calibrated until |
|------|-------------------|--------------|-----------|--------------|------------------|
| 1 | LISN | R&S | ENV432 | 1326.6105.02 | 03/27/2022 |
| 2 | EMI Test Receiver | R&S | ESR | 102524 | 04/07/2022 |
| 3 | Manual RF Switch | JS TOYO | / | MSW-01/002 | 04/07/2022 |

Note:

1)The Cal. Interval was one year.

2)The cable loss has calculated in test result which connection between each test instruments.

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2.4. TEST SOFTWARE

| Software name | Model | Version |
|--|----------|-------------|
| Radiated emission Measurement Software | EZ-EMC | FA-03A.2.RE |
| Bluetooth and WIFI Test System | JS1120-3 | 2.5.77.0418 |

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3. TEST ITEM AND RESULTS

3.1. ANTENNA REQUIREMENT

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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.

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(i) 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 6dBi.

<u>Test Result</u>

The directional gain of the antenna less than 6dBi, please refer to the EUT internal photographs antenna photo.

Note: The antenna is permanently fixed to the EUT

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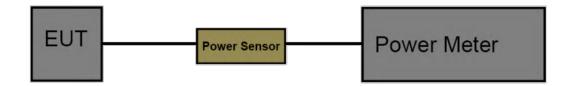


3.2. PEAK OUTPUT POWER

<u>Limit</u>

| Test Item | Limit | Frequency Range(MHz) |
|-------------------|------------------|----------------------|
| Peak Output Power | 1 Watt or 30 dBm | 2400~2483.5 |

Test Configuration



Test Procedure

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- 2. The measurement is according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
- 3. Spectrum Setting:

Set analyser center frequency to DTS channel center frequency. Set the RBW to: 1MHz Set the VBW to: 3MHz Detector: peak Sweep time: auto Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

4. The power sensor video bandwidth is greater than or equal to the DTS bandwidth of the equipment.

Test Mode

Please refer to the clause 2.2

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<u>Test Result</u>

| Mode | Channel frequency (MHz) | Test Result (dBm) | Limit (dBm) |
|----------------|-------------------------|-------------------|-------------|
| | 2412 | 8.92 | |
| 802.11b | 2437 | 8.60 | |
| | 2462 | 9.14 | |
| | 2412 | 9.43 | |
| 802.11g | 2437 | 9.08 | 30 |
| | 2462 | 9.50 | |
| | 2412 | 9.34 | |
| 802.11n (HT20) | 2437 | 8.98 | |
| | 2462 | 9.36 | |
| | Result : | PASS | |

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3.3. POWER SPECTRAL DENSITY

<u>Limit</u>

| | FCC Part 15 Subpart C(15.247 | ') |
|------------------------|------------------------------|----------------------|
| Test Item | Limit | Frequency Range(MHz) |
| Power Spectral Density | 8dBm(in any 3 kHz) | 2400~2483.5 |

Test Configuration

| EUT | Spectrum Analyzer |
|-----|---------------------|
| | epool and and and a |

Test Procedure

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator.
- The EUT was directly connected to the Spectrum Analyzer and antenna output port as show in the block diagram above. The measurement according to ANSI C63.10 (2013) for compliance to FCC 47CFR 15.247 requirements.
- 3. Spectrum Setting:

Set analyser center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: 3 kHz

Set the VBW to: 10 kHz

Detector: peak

Sweep time: auto

Allow trace to fully stabilize. Then use the peak marker function to determine the maximum amplitude level.

Test Mode

Please refer to the clause 2.2

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| Test Mode: | | 802.11b Mode | |
|------------------------------|--|---|----------------|
| hannel Frequency (MHz) | Power Density (dBm/10kHz) | Power Density (dBm/3kHz) | Limit (dBm) |
| 2412 | / | -20.09 | |
| 2437 | / | -19.7 | 8dBm/3kHz |
| 2462 | / | -20.18 | _ |
| | 2412 N | IHz | I |
| Spectrum | | | |
| Att 30 dB SV Count 81/100 | fset 8,23 dB 🗰 RBW 3 kHz /T 160 ms 🖬 VBW 10 kHz | Mode Sweep | |
| e 1Pk View | 1 1 1 | M1[1] | -20.09 dBm |
| 10 dBm | | | 2.4127160 GHz |
| 0 dBm | | | |
| -10 dBm | | | |
| -20 dBm | | Mi | |
| alexandra and a second | uniperturbation of the | purper and a second and the second particular and purper and purper and purper and purper and purper and purper | work |
| -30 dBm | V | | and manaphanen |
| -50 dBm | | | |
| -60 dBm | | | |
| -70 dBm | | | |
| CF 2.412 GHz | 1001 pt | 5 | Span 14.34 MHz |
| 11 | | | 10 |





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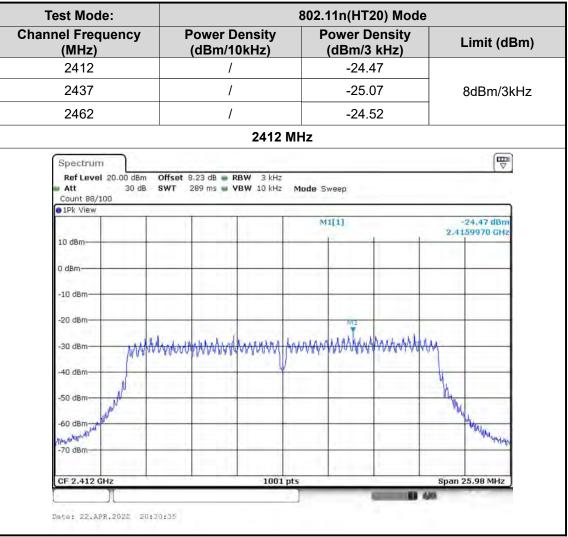


| Test Mode: | | 802.11g Mode | |
|---|---|---|--|
| Channel Frequency (MHz) | Power Density (dBm/10 kHz) | Power Density (dBm/3 kHz) | Limit(dBm |
| 2412 | / | -25.52 | |
| 2437 | 1 | -26.00 | 8dBm/3kHz |
| 2462 | / | -25.71 | |
| | 2412 MHz | | 1 |
| Spectrum | | | |
| Ref Level 20.00 dBm Off Att 30 dB SW Count 85/100 | set 8.23 dB 8 RBW 3 kHz T 272 ms VBW 10 kHz Mode | Sweep | |
| 1Pk View | | | |
| | | M1[1] | -25.52 dBm 138830 GHz |
| 10 dBm | | | Looddo dife |
| | | | |
| 0 dBm- | | | |
| -10 dBm | | | 1. |
| | | | |
| -20 dBm | Ma | | |
| -30 dBm AlthAnne | ALARAMANA ALAMAN ALAMANA | | |
| -30 dBm AMAAA | CONTRACTOR CONTRACTOR CONTRACTOR | VARAA A A A A A A A A A A A A A A A A A | |
| -40 dBm | | | |
| | | M. | |
| -50 dBm- | | | |
| so don M | | | Phys. |
| -60 dBm | | | with a fundament |
| -70 dBm | | | - 944 |
| | | | |
| CF 2.412 GHz | 1001 pts | Span | 24.48 MHz |
| | | | |

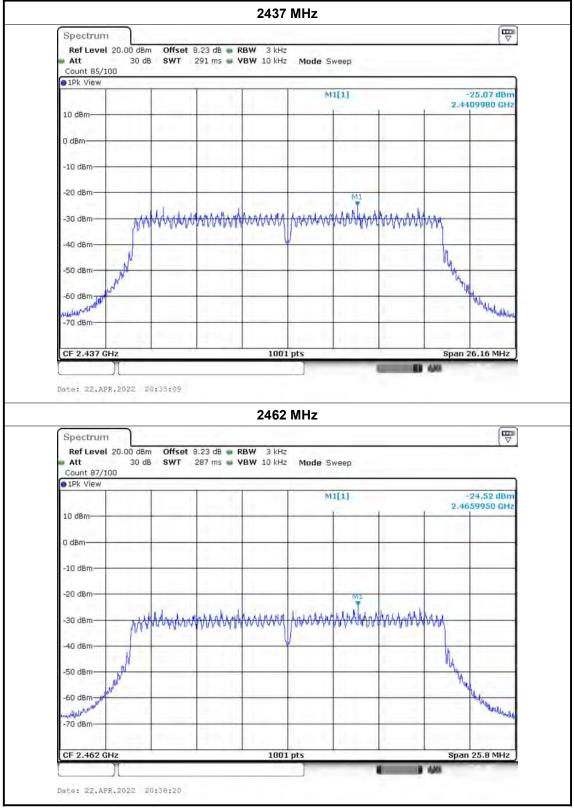












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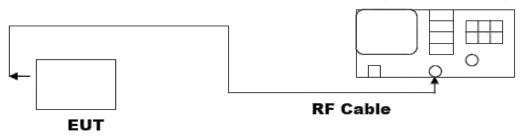
3.4. BANDWIDTH

<u>Limit</u>

| Test Item | Limit | Frequency Range(MHz) |
|-----------|------------------------------|----------------------|
| Bandwidth | >=500 KHz (6dB bandwidth) | 2400~2483.5 |

Test Configuration

Spectrum Analyzer



Test Procedure

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator: 6db Bandwidth
 - (1) Set RBW = 100 kHz.
 - (2) Set the video bandwidth (VBW) \ge 3 RBW.
 - (3) Detector = Peak.
 - (4) Trace mode = Max hold.
 - (5) Sweep = Auto couple.

NOTE: The EUT was set to continuously transmitting in each mode and low, Middle and high channel for the test.

<u>Test Mode</u>

Please refer to the clause 2.2.

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| 9 | 1b Mode | 02.11b | 80 | | | | : | Mode | Test | - |
|---|------------------------------|--------|----------------|--------|--------------------|-----------|---------|---------|-------|--|
| Limit (MHz | łz) L | (MHz) | ndwidth | B Ba | 6dE | <u>z)</u> | cy (MHz | quenc | l fre | anne |
| | | | 9.56 | | | | | 412 | 2 | |
| >=0.5 | | | 9.56 | | | | | 437 | 2 | |
| | | | 9.56 | | | | | 462 | 2 | |
| | | | Z | 2 MI | 2412 | | | | | |
| | | | | | | | | Γ | um | Spectr |
| -11.38 dBm 2.4074800 GHz -6.40 dBm 2.4125200 GHz | 2.4 | | M1[1] M2[1] | Hz | 7 8W 300 ki | 1 ms 🖷 ' | SWT | 30 dB | | • Att Count : • 1Pk Vie 10 dBm- |
| 1.4120200 012 | | 1 | AA L DE | M2 | Inter | M | | 1.1 | | 0 dBm- |
| | | | hall be | V | 1 Million | M | d8m | -12,400 | 01 | -10 dBm |
| | | Chy . | V | | | N | | | | -20 dBm |
| | | K | | - | | 1 | | | | -30 dBm |
| | | 1 | - | + | | | f | | | -40 d8m |
| and the manufactures and | hard a second and the second | - An | - | + | | | month | withput | num | -50 d8m |
| | | | 1 | 1 | | | | | - | -60 d8m |
| | | | | 1 | | | | | - | -70 dBm |
| Span 40.0 MHz | Spar | 1 | - |)1 pts | 100 | | () | - | 12 GH | CF 2.41 |
| a Garanti | Function Resul | 1 | unction | - 1 | Y-value | 1 | X-value | Treal | Def. | Marker Type |
| JII Kesult | Function Resul | | unction | IBm | -11.38 d | 48 GHz | | 1 | Rei | M1 |
| | | | | | -6.40 d | 52 GHz | | 1 | | M2 |
| | | | | dB | -0.99 | 6 MHz | 9.9 | 1 | M1 | D3 |
| | | | | | | | | - | - | 1 |



| | | | | 2437 | MHz | | | | |
|--|--|-----------------------|---------|--|--|-------------|---|--------------------|---|
| Spectrum | | | | | | | | | E. |
| Ref Level | | | | RBW 100 kHz | | | | | |
| Att Count 100/ | 30 | dB SWT | 1 ms - | VBW 300 kHz | z Mode S | weep | | | |
| 1Pk View | | | | | | | | | |
| C | | | | | Ma | (1) | | | -11.93 dB |
| 10 dBm | | + | | - | M2 | 2[1] | | 2.4 | -6.69 dB |
| 0 dBm | | | | | | | - | 2.4 | 380000 GH |
| 2.24 | | | 1 | M1 | M2 | | | | |
| -10 dBm-1 | 01 -12.69 | 90 d8m | 1 | The work | many | July. | - | | - |
| -20 dBm | | | AM/ | Y | | 1/4 | - | - | |
| -30 d8m | | | J. W. | | | W al | V. | _ | |
| | | 1 | 2 | | | | N | | |
| -40 d8m | | | | | | 10.000 | 1 | | |
| -50 dBm | Munimu | wetnessed | | | | <u>.</u> | brusy | and the particular | W. Malanus |
| -60 d8m- | - | | | | | | | 1.1.40.00 | 11111 |
| | | 1.1.1 | | | | | | | |
| -70 d8m | | | | | | | | | |
| CF 2.437 G | Hz | - | | 1001 | pts | - | 1 | Snar | 1 40.0 MH |
| Marker | | | | | | - 7 | | - pui | |
| Type Ref | Trc 1 | X-value | 48 GHz | Y-value -11.93 dBr | Funct | ion | Fu | nction Resul | t |
| M1 M2 | 1 | | 38 GHz | -11,93 dBr -6.69 dBr | | | | | |
| D3 M1 | 1 1 | 9.5 | 56 MHz | -0.72 d | B | | | | |
| CC 17 100000 | a scheduler in | and contraction | | | | | | | |
| ologi akaza | 1,2022 | 20:06:15 | | 2462 | MU- | | | é es | |
| | Ŋ,2022 | 20:06:15 | | 2462 | MHz | | | é e | |
| | _ | 20:06:15 | | 2462 | MHz | | | | Ę |
| Spectrum Ref Level | | | 3.23 dB | 2462 RBW 100 kHz | | | _ | _ | |
| Spectrum Ref Level | 20.00 dE 30 | Bm Offset 8 | | | z | weep | _ | | Ē |
| Spectrum Ref Level Att Count 100/ | 20.00 dE 30 | Bm Offset 8 | | RBW 100 kHz | 2 | weep | | | (<mark>¤</mark> |
| Spectrum Ref Level | 20.00 dE 30 | Bm Offset 8 | | RBW 100 kHz | z z Mode S | weep | | | |
| Spectrum Ref Level Att Count 100/ | 20.00 dE 30 | Bm Offset 8 | | RBW 100 kHz | z z Mode S M3 | (1) | | | -11.05 dB 574800 GF |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm | 20.00 dE 30 | Bm Offset 8 | | RBW 100 kHz | z z Mode S M3 | | | 2,4 | -11.05 dB 574800 GF -6.32 dB |
| Spectrum Ref Level Att Count 100/ 1Pk View | 20.00 dE 30 | Bm Offset 8 | 1 ms | RBW 100 kHz VBW 300 kHz | z Mode S M3 M2 | (1) | | 2,4 | -11.05 dB 574800 GF -6.32 dB |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm | 20.00 dE 30 | Bm Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) | | 2,4 | -11.05 dB 574800 GF -6.32 dB |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm | 20.00 dE 30 1 100 | Bm Offset 8 dB SWT | 1 ms | RBW 100 kHz | Z Mode S M1 M2 | (1) 2(1) | | 2,4 | -11.05 dB 574800 GF -6.32 dB |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm -10 dBm (-20 dBm | 20.00 dE 30 1 100 | Bm Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | 4 | 2,4 | -11.05 dB 574800 GF -6.32 dB |
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| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm -10 dBm (-20 dBm | 20.00 dE 30 1 100 | Bm Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | | 2,4 | -11.05 dB 574800 GF -6.32 dB |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 20.00 dE 30 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | | 2.4 | -11.05 dBi 574800 Gł -6.32 dBi 535200 Gł |
| Spectrum Ref Level Att Count 100// 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm | 20.00 dE 30 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 | 2,4 | -11.05 dB 574800 GF -6.32 dB 535200 GF |
| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm | 20.00 dE 30 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | y y y | 2.4 | -11.05 dB 574800 GF -6.32 dB 535200 GF |
| Spectrum Ref Level Att Count 100// 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm -50 dBm | 20.00 dE 30 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | Z Mode S M1 M2 | (1) 2(1) | A A A A A A A A A A A A A A A A A A A | 2.4 | -11.05 dB 574800 GF -6.32 dB 535200 GF |
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| Spectrum Ref Level Att Count 100/ 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -60 dBm -60 dBm | 20.00 db 30 1 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | M2 | (1) 2(1) | | 2.41 2.41 | -11.05 dB 574800 GF -6.32 dB 535200 GF |
| Spectrum Ref Level Att Count 100// 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -30 dBm -70 dBm -70 dBm CF 2.462 G | 20.00 de 30 1 100 | am Offset 8 dB SWT | 1 ms | RBW 100 kHz VBW 300 kHz | m2 M2 M2 M2 M2 M2 | | | 2.41 2.41 | -11.05 dB 574800 GF -6.32 dB 535200 GF |
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Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



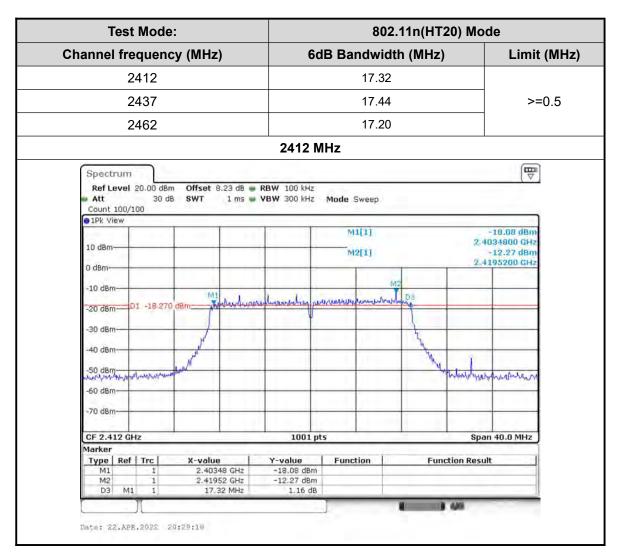
| Test Mo | de: | | 802 | 2.11g M | ode | |
|--|-------------------------------------|-------------------------------------|------------|---------|---------------|--|
| hannel freque | ncy (MHz) | 6dB Bar | ndwidth (N | IHz) | Lim | it (MHz) |
| 2412 | | | 16.32 | | | |
| 2437 | | | 16.36 | | > | >=0.5 |
| 2462 | | | 16.44 | | | |
| | | 2412 M | Hz | | | |
| Spectrum | | | | | | |
| Ref Level 20.00 dE Att 30 Count 100/100 1Pk View | ter services even of a | | Mode Sweep | | | -17.82 dBm |
| 10 dBm | | | M2[1] | | 2.40 | 038800 GHz -11.96 dBm 170000 GHz |
| -10 dBm | ML | аланисталина Лич | Ma | 3 الم | | |
| -20 dBm | dBm | | | | | |
| -40 dBm | June 1 | | | Jay | | 1 |
| -50 dBm | 10 Mb wards | | | 1 | Normannaline | ipson and the |
| -60 dBm | | | | | | 1 |
| CF 2.412 GHz | | 1001 pt | 5 | | Spar | 40.0 MHz |
| Marker | | | | | | |
| Type Ref Trc M1 1 M2 1 | X-value 2.40388 GHz 2.417 GHz | Y-value -17.82 dBm -11.96 dBm | Function | F | unction Resul | t. |
| D3 M1 1 | 16.32 MHz | 0.85 dB | | | | 1 |
| | | | | 10 | 4,48 | |



| | | | | 2437 | | | | | _ |
|--|----------------------------------|----------------------|--------|--|---|------------------|---------------------------------------|----------------------------------|--|
| Spectrun | n | | | | | | | | |
| Att | | | | RBW 100 kHz VBW 300 kHz | Mode S | Sweep | | | |
| Ount 100 | /100 | | | | | | | _ | |
| | | | 1.14 | | Ma | 1[1] | | | -17.90 dBr |
| 10 dBm | | ++ | | + | MS | 2[1] | | | 288400 GH -12.61 dBr |
| 0 dBm | | - | | - | | | 1 | | 395200 GH |
| -10 d8m | | | | | M2 | | | | |
| | | ML | - | Annonements , | mugallions | menubur | 3 | | |
| -20 dBm | D1 -18.610 | dBm | | T T | | | Ĩ. | | |
| -30 dBm | | 1 | - | | | - | 4 | - | |
| -40 dBm | | N. | | - | | | 1 | | |
| -50 dam- | | w. | | | | pt-t-t- | Yay | | |
| | ad Meanwhit | 1 | | | | | | remarket | Manuman |
| -60 d8m | | | 1.1 | | | 11.1 | | | |
| -70 d8m | - | | | | | ÷ | | | - |
| CF 2.437 (| 2112 | | | 1001 | ate | - | | Para | 1 40.0 MHz |
| Marker | ar12 | | - | 1001 | | | | spar | 1 40.0 MHZ |
| Type Re | | X-value 2.4288 | 1.04- | Y-value | Funct | tion | Fun | ction Result | t |
| M1 M2 | 1 | 2.4395 | 2 GHz | -17.90 dBm -12.61 dBm | 1 | | | | |
| D3 N | 11 1 | 16.36 | 5 MHz | -0.33 de | | | | | |
| late: 22.A | _ | 0:21:29 | | 2462 | | | | 646 | ſ |
| Spectrun | n | | 23 dB | 2462 | | | | 4,468 | (T |
| Spectrun Ref Leve Att | n I 20.00 dBr 30 d | n Offset 8. | | | MHz | Sweep | | 4,469 | (The second seco |
| Spectrun Ref Leve | n I 20.00 dBr 30 d | n Offset 8. | | 2462 RBW 100 kHz | MHz | Sweep | | 446 | (The second seco |
| Spectrun Ref Leve Att Count 100 | n I 20.00 dBr 30 d | n Offset 8. | | 2462 RBW 100 kHz | Mode S | Sweep | | | (⊽ -17.96 dBr |
| Spectrun Ref Leve Att Count 100 | n I 20.00 dBr 30 d | n Offset 8. | | 2462 RBW 100 kHz | Mode S | | - | 2.45 | -17.96 dBr 538400 GH -13.72 dBr |
| Spectrum Ref Leve Att Count 100 1Pk View | n I 20.00 dBr 30 d | n Offset 8. | | 2462 RBW 100 kHz | Mode S | ı(1) | | 2.45 | -17.96 dBr 538400 GH |
| Spectrun Ref Leve Att Count 100 1Pk View 10 dBm- | n I 20.00 dBr 30 d | n Offset 8. 8 SWT | | 2462 RBW 100 kHz | Mode S | ı(1) | | 2.45 | -17.96 dBr 538400 GH -13.72 dBr |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm | n 20.00 dBr 30 d /100 | n Offset 8. 8 SWT | 1 ms 🖷 | 2462 RBW 100 kHz | MHZ Mode S | l[1] 2[1] | | 2.43 | -17.96 dBr 538400 GH -13.72 dBr |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm- 0 dBm- -10 dBm- -20 dBm- | n I 20.00 dBr 30 d | n Offset 8. 8 SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | MHZ Mode S | l[1] 2[1] | | 2.43 | -17.96 dBr 538400 GH -13.72 dBr |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm | n 20.00 dBr 30 d /100 | n Offset 8. 8 SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | MHZ Mode S | l[1] 2[1] | | 2.43 | -17.96 dBr 538400 GH -13.72 dBr |
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| Spectrum Ref Leve Att Count 100 • 1Pk View 10 dBm -10 dBm -10 dBm -30 dBm -30 dBm -30 dBm -50 dBm | -01 -19.720 | n Offset 8. B SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | MHZ Mode S | l[1] 2[1] | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.43 | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
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| Spectrum Ref Leve Att Count 100 • 1Pk View 10 dBm | -01 -19.720 | n Offset 8. B SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | MHZ Mode S | l[1] 2[1] | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.43 | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -50 dBm | -01 -19.720 | n Offset 8. B SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | MHZ Mode S | l[1] 2[1] | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.43 | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 • 1Pk View 10 dBm | -01 -19.720 | n Offset 8. B SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | Mode S Mode S M3 | l[1] 2[1] | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 2.45 2.45 | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -30 dBm -40 dBm -50 dBm -70 dBm -70 dBm -70 dBm | | n Offset 8. B SWT | 1 ms 🖷 | 2462 RBW 100 kHz VBW 300 kHz | Mode S Mis ms | 1[1] 2[1] | | 2.43 2.45 Winthoma Spar | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm | | n Offset 8. B SWT | 1 ms - | 2462 RBW 100 kHz VBW 300 kHz | Mode S MJ MS PUXN/MAAN | 1[1] 2[1] | | 2.45 2.45 | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -70 | 1 20.00 dBr 30 d /100 | n Offset 8. B SWT | 1 ms - | 2462 RBW 100 kHz VBW 300 kHz Autor do Hautor Autor do Hautor 1001 p 1001 p -17.96 dBm -17.96 dBm -17.96 dBm -13.72 dBm | Mode S Mode S M3 M2 POXMMANK S S S S S S S S S S S S S S S S S S S | 1[1] 2[1] | | 2.43 2.45 Winthoma Spar | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm -0 dBm -10 dBm -20 dBm -20 dBm -30 dBm -40 dBm -40 dBm -50 dBm -70 | -01 -19.720 | n Offset 8. B SWT | 1 ms - | 2462 RBW 100 kHz VBW 300 kHz //////////////////////////////////// | Mode S Mode S M3 M2 POXMMANK S S S S S S S S S S S S S S S S S S S | 1[1] 2[1] | Fun | 2.43 2.45 Winthoma Spar | -17.96 dBr 538400 GH -13.72 dBr 570400 GH |

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China







| | | | 24 | 37 MHz | | | | |
|---|---|--------------------------|---|--|-------------------------|--|--------------|--|
| Spectrur | n | | _ | | | | | |
| Ref Leve Att Count 100 | al 20.00 dB 30 d | | dB - RBW 10 ms - VBW 30 | | Sweep | | | |
| ●1Pk View | T- | 1 1 | | | | | _ | 10.10.45 |
| 10 dBm | | | | | 41[1] | | 2.42 | -18.49 dBn 283600 GH -12.55 dBn |
| 0 dBm | | | | | 1 | 1 | 2,44 | 20000 GH |
| -10 dBm | | M1 | | | M2 | 1 | | |
| -20 dBm | D1 -18.55 | | enlawroppenness | rely pomoutin | at Max men | US. | | |
| -30 dBm | | | _ | - | | 1 | | |
| -40 dBm | - | 1 | | | 1. | y y | | |
| -50 dBm- | and the second and | and | | _ | | Ky | www.amu | in the state |
| -60 dBm | Marshan and | | | _ | 11.10 | | A Mall Sugar | ard manufactor |
| -70 d8m | | 1 | | | 11.4 | | | 1.00 |
| -70 Gom | | | 1010 | 1.1.1 | 1.0 | 1 | | 1.00 |
| CF 2.437 Marker | GHz | | | 1001 pts | | | Span | 40,0 MHz |
| Type Re | | X-value | Y-val | | ction | Func | tion Result | t . |
| M1 M2 | 1 | 2.42836 (2.442 (| GHz -12.5 | 19 dBm 55 dBm | | | | |
| D3 N | 41 1 | 17.44 N | MHZ 0 | .34 dB | | _ | | |
| late: 22.A | PR.2022 | 20:33:52 | 2/ | 62 MH7 | | _ | 4,45 | |
| | _ | 20:33:52 | 24 | 62 MHz | | | 40 | Ē |
| Spectrur Ref Leve Att Count 100 | n al 20.00 dB 30 d | m Offset 8,23 | 24 dB RBW 10 ms VBW 30 | 10 kHz | Sweep | | 448 | (T |
| Spectrur Ref Leve | n al 20.00 dB 30 d | m Offset 8,23 | dB 🖷 RBW 10 | 10 kHz 10 kHz Mode | | | | (^Щ √ |
| Spectrur Ref Leve Att Count 100 | n al 20.00 dB 30 d | m Offset 8,23 | dB 🖷 RBW 10 | 10 kHz 10 kHz Mode | Sweep 41[1] 42[1] | | 2.45 | 17.90 dBn 36000 GH 12.39 dBn |
| Spectrur Ref Leve Att Count 100 1Pk View | n al 20.00 dB 30 d | m Offset 8,23 | dB 🖷 RBW 10 | 10 kHz 10 kHz Mode | 11[1] | | 2.45 | -17.90 dBn 536000 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- | m 1 20.00 dB 30 d 0/100 | m Offset 8.23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | | 2.45 | 17.90 dBn 36000 GH 12.39 dBn |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- 0 dBm- | n al 20.00 dB 30 d | m Offset 8.23 B SWT 1 | dB 🖷 RBW 10 | 10 kHz 10 kHz Mode | 41[1] 42[1] | | 2.45 | 17.90 dBn 36000 GH 12.39 dBn |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm- 0 dBm- -10 dBm- | m 1 20.00 dB 30 d 0/100 | m Offset 8.23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | | 2.45 | 17.90 dBn 36000 GH 12.39 dBn |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm- -10 dBm- -20 dBm- | m 1 20.00 dB 30 d 0/100 | m Offset 8,23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | | 2.45 | 17.90 dBn 36000 GH 12.39 dBn |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- | m 1 20.00 dB 30 c 1/100 | m Offset 8.23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | A Contraction of the second se | 2.45 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- | m 1 20.00 dB 30 d 0/100 | m Offset 8.23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | A Contraction of the second se | 2.45 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrum Ref Leve Att Count 100 1Pk View 10 dBm -10 dBm -10 dBm -20 dBm -30 dBm -30 dBm -30 dBm -40 dBm | m 1 20.00 dB 30 c 1/100 | m Offset 8.23 B SWT 1 | 8 dB • RBW 10 ms • VBW 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | A Contraction of the second se | 2.45 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -50 dBm- -70 dBm- | n 1 20.00 dB 30 d 1/100 | m Offset 8.23 B SWT 1 | de Rew 10 ms Vew 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | A Contraction of the second se | 2.45 2.46 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm- -10 dBm- -20 dBm- -30 dBm- -40 dBm- -50 dBm- -60 dBm- | n 1 20.00 dB 30 d 1/100 | m Offset 8.23 B SWT 1 | de Rew 10 ms Vew 30 | 10 kHz 10 kHz Mode | 41[1] 42[1] | A Contraction of the second se | 2.45 2.46 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm CF 2.462 Marker Type Ref M2 | m 30 c 30 c 1/100 DI -18.39 DI -18.39 GHz GHz af Trc 1 1 | m Offset 8.23 B SWT 1 | 0 dB RBW 10 ms VBW 30 | 10 kHz 10 kHz Mode M2 M2 M2 1001 pts | 41[1] 42[1] | A Carlos and a car | 2.45 2.46 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |
| Spectrur Ref Leve Att Count 100 1Pk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -70 dBm CF 2.462 Marker Type Ref M2 | m 1 20.00 dB 30 c 1/100 101 -18.39 101 -18.39 GHz GHz 2f Trc 1 | m Offset 8.23 B SWT 1 | 0 dB RBW 10 ms VBW 30 | 10 kHz 10 kHz Mode 10 kHz Mode 100 kHz Mode 100 kHz 100 kHz | 11[1] 12[1] | A Carlos and a car | 2.45 2.46 | 17.90 dBn 36000 GH 12.39 dBn 45200 GH |



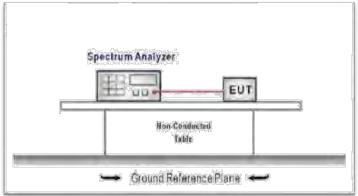
3.5. BAND EDGE AND SPURIOUS EMISSION (CONDUCTED)

<u>Limit</u>

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

Test Configuration



Test Procedure

- 1. Connect EUT RF Output port to the Spectrum Analyzer through an RF attenuator.
- 2. Spectrum Setting:

RBW=100KHz VBW=300KHz. Detector function: Peak. Trace: Max hold. Sweep = Auto couple.

Allow the trace to stabilize.

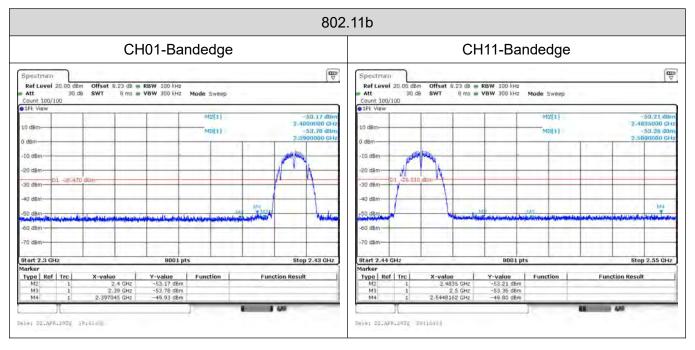
Test Mode

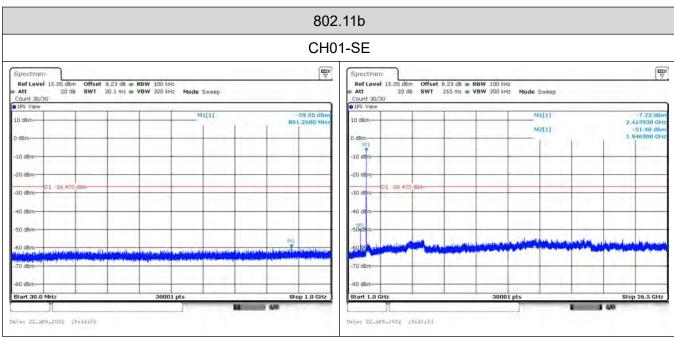
Please refer to the clause 2.2.

TRF No. FCC Part 15.247_R1

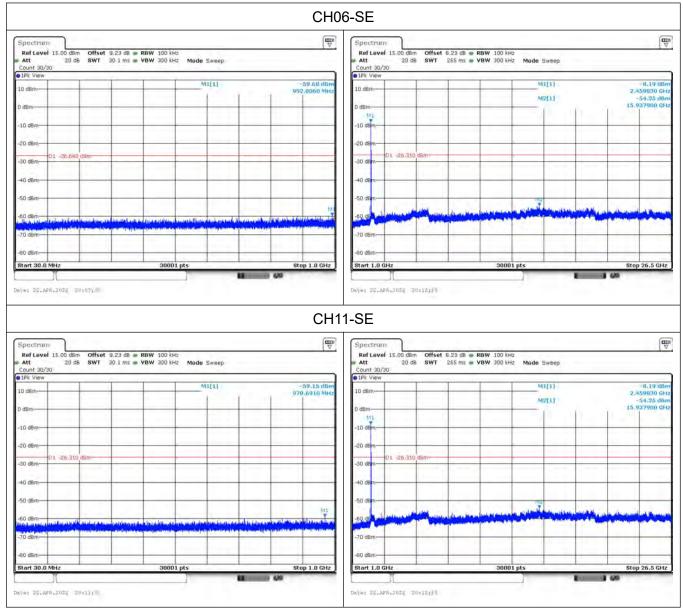


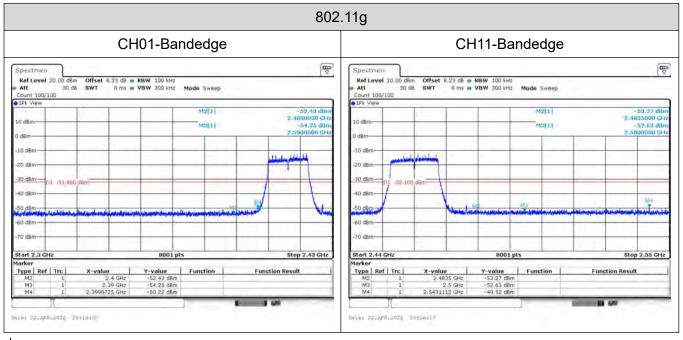






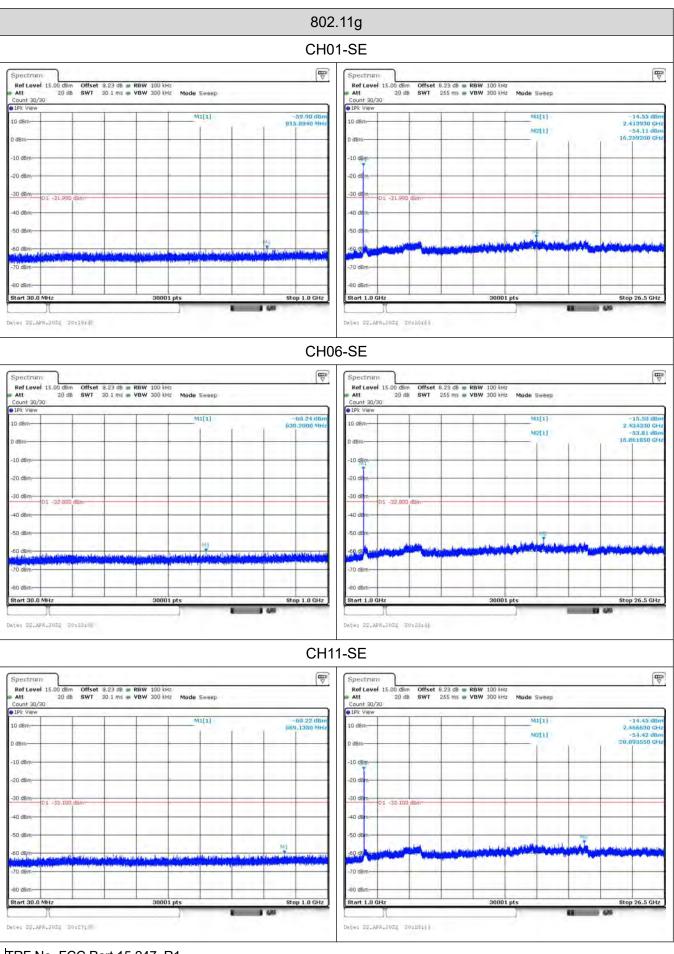




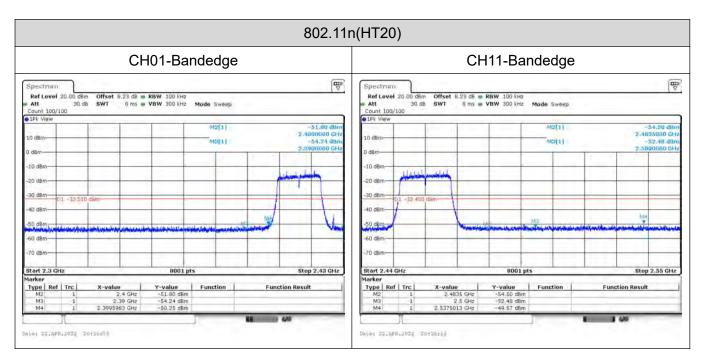


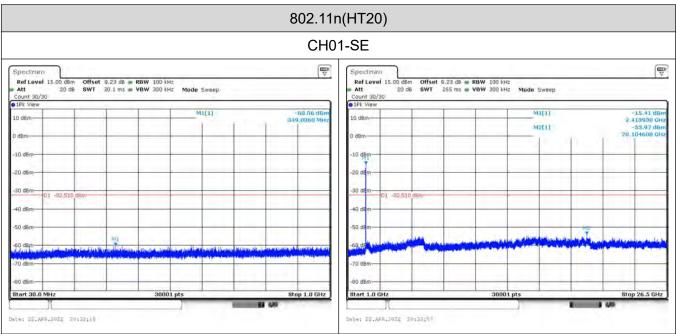
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China



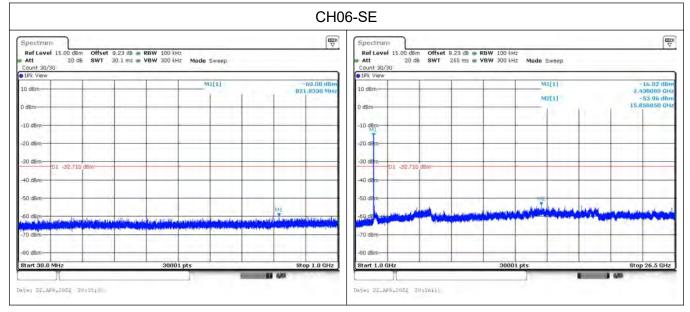


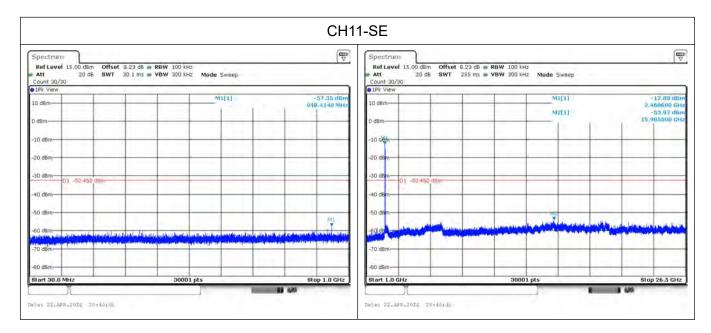
Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China











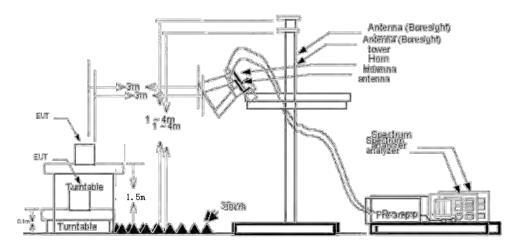


3.6. BAND EDGE EMISSIONS(RADIATED)

<u>Limit</u>

| Restricted Frequency Band (MHz) | (dBuV/m)(at 3m) | |
|--|-----------------|---------|
| | Peak | Average |
| 2310 ~2390 | 74 | 54 |
| 2483.5 ~2500 | 74 | 54 |
| Note: All restriction bands have been tested, only the worst case is reported. | | |

Test Configuration



Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013 requirements.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find the maximum emission, all of the interface cables were manipulated according to ANSI C63.10:2013 on radiated measurement.
- The receiver set as follow: RBW=1MHz, VBW=3MHz PEAK detector for Peak value. RBW=1MHz, VBW=10Hz with PEAK detector for Average Value.

Test Mode

Please refer to the clause 2.2.

Test Results

Note:

1.Measurement = Reading level + Correct Factor

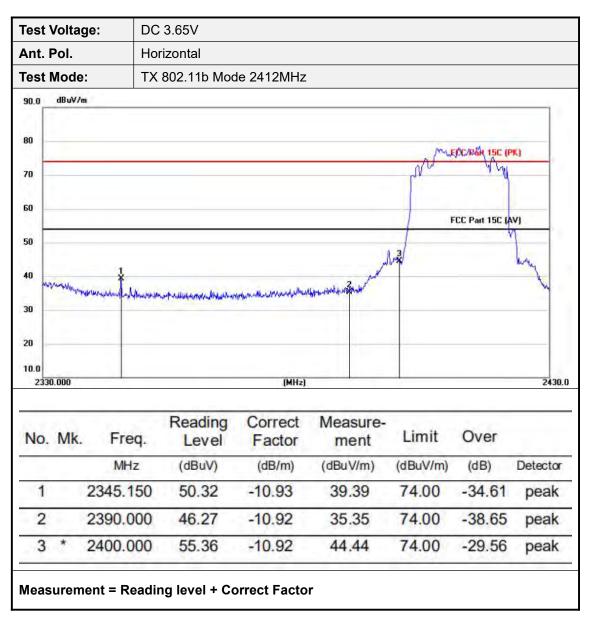
Correct Factor=Antenna Factor + Cable Loss - Preamplifier Factor

2.Pre-scan 802.11b, 802.11g, 802.11n(HT20) and 802.11n (HT40) mode, and found the 802.11b mode which it is worse case, so only show the test data for worse case.

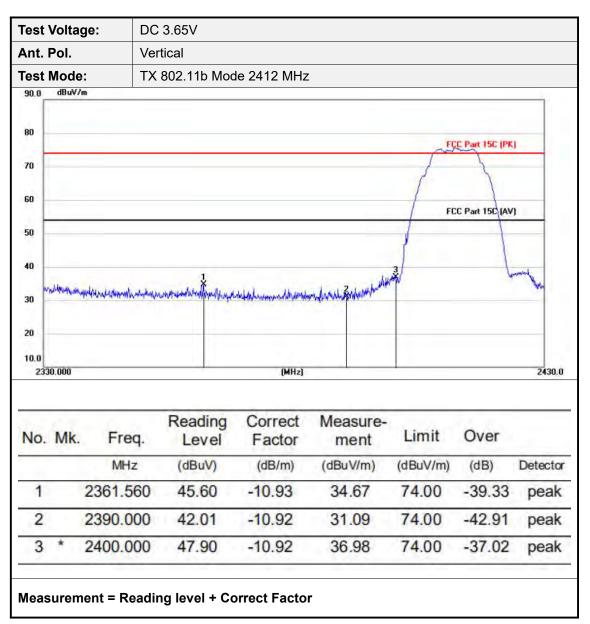
TRF No. FCC Part 15.247_R1

Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

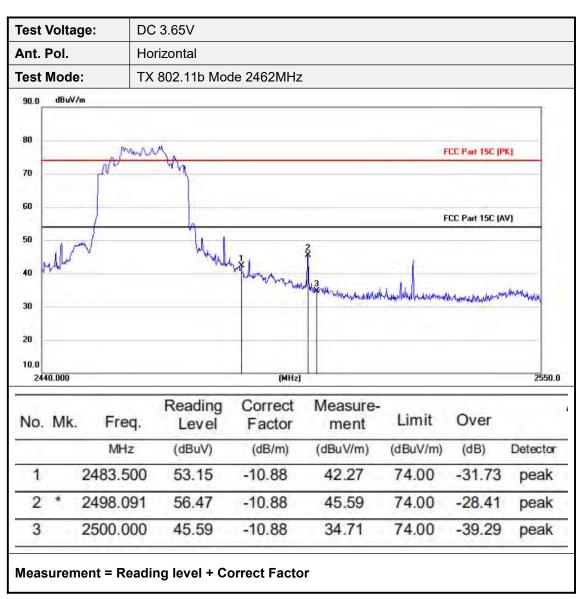






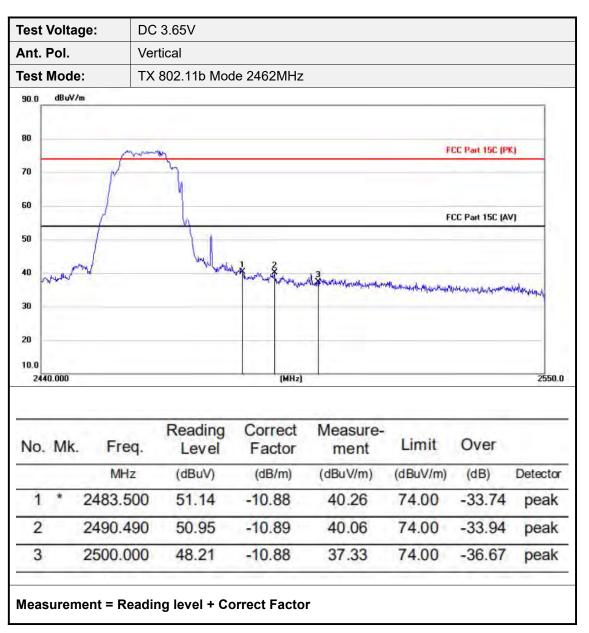






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3.7. SPURIOUS EMISSION (RADIATED)

<u>Limit</u>

Radiated Emission Limits (9 kHz~1000 MHz)

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

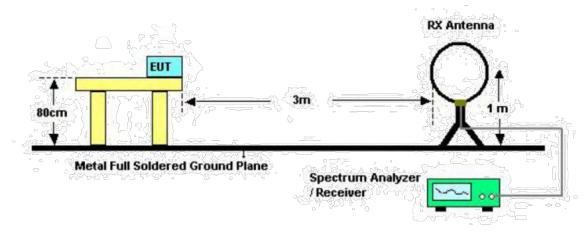
Radiated Emission Limit (Above 1000MHz)

| Frequency | Distance Meters(at 3m) | | |
|------------|------------------------|---------|--|
| (MHz) | Peak | Average | |
| Above 1000 | 74 | 54 | |

Note:

- (1) The tighter limit applies at the band edges.
- (2) Emission Level (dBuV/m)=20log Emission Level (uV/m).

Test Configuration



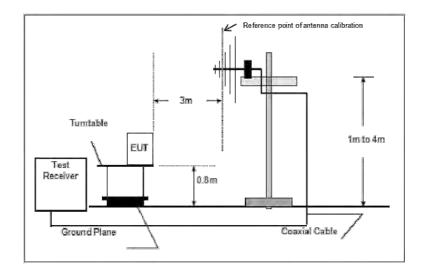
Below 30MHz Test Setup

TRF No. FCC Part 15.247_R1

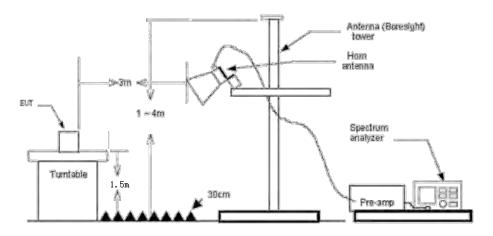
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

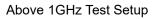
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Below 1000MHz Test Setup





Test Procedure

- 1. The EUT was setup and tested according to ANSI C63.10:2013
- 2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;

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(2) Below 1 GHz:

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

(3) From 1 GHz to 10th harmonic:

RBW=1MHz, VBW=1MHz Peak detector for Peak value.

RBW=1MHz, VBW=10Hz Peak detector for Peak value.

<u>Test Mode</u>

Please refer to the clause 2.2.

<u>Test Result</u>

9 KHz~30 MHz and 18GHz~25GHz

From 9 KHz~30 MHz and 18GHz~25GHz: Conclusion: PASS

Note:

1) Measurement = Reading level + Correct Factor

Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor

- 2) The peak level is lower than average limit(54 dBuV/m), this data is the too weak instrument of signal is unable to test.
- 3) The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4) The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5) Pre-scan 802.11b/g/n(HT20,HT40) modulation, and found the 802.11b modulation which it is worse case for above 1GHz, 2412MHz channel which it is worse case for below 1GHz, so only show the test data for worse case.

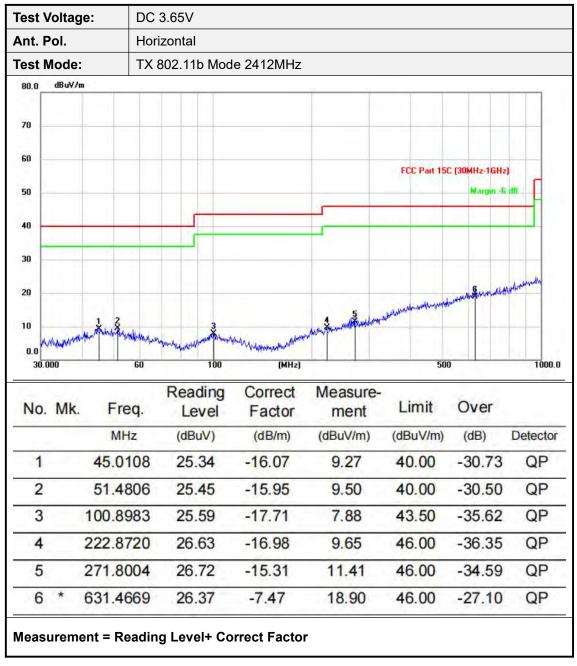
BELOW 30MHz

No emission found between lowest internal used/generated frequencies to 30MHz.

TRF No. FCC Part 15.247_R1

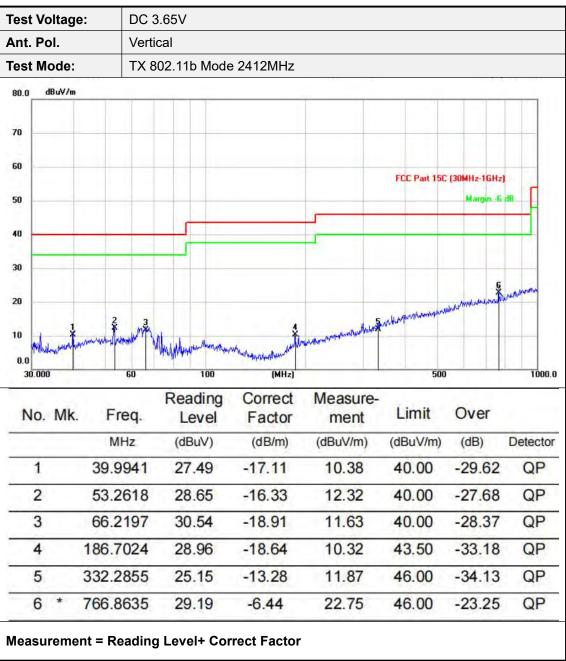
Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China Tel:+(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail:info@gdksign.cn Web: www.gdksign.com





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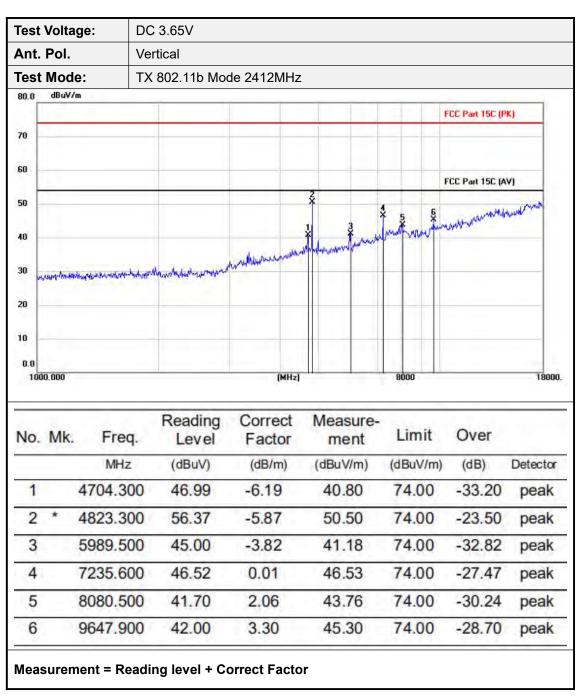
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China Tel : +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail : info@gdksign.cn Web: www.gdksign.com



| Test Voltage: Ant. Pol. | | age: | DC 3.65V | | | | | | | |
|----------------------------|-------|-----------------------------------|------------------------------------|----------------------|---------------------|---------------|------------------|----------|--|--|
| | | - | Horizontal | | | | | | | |
| Test Mode: | | | TX 802.11b Mode 2412MHz | | | | | | | |
| 80.0 | dBuV | /m | | | | | | | | |
| 80.0 0004710 | | | | | | F | CC Part 15C (P) | 0 | | |
| 70 | - | | | | | | | | | |
| 60 | | | | | | F | CC Part 15C (A) | n | | |
| 50 | | | | | * 4 * | | | 6 | | |
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| 20 | | | | | | | | | | |
| | | | | | | | | | | |
| 10 | | | | | | | | | | |
| 0.0 100 | 0.000 | | | (MHz) | | 8000 | | 18000. | | |
| No. | Mł | c. Freq | Reading Level | Correct Factor | Measure- ment | Limit | Over | | | |
| | | MHz | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | Detector | | |
| 1 | | 3359.60 | 47.86 | -9.93 | 37.93 | 74.00 | -36.07 | peak | | |
| 2 | 8 | 4031.10 | 0 47.01 | -8.32 | 38.69 | 74.00 | -35.31 | peak | | |
| 3 | * | 4823.30 | 0 58.03 | -5.87 | 52.16 | 74.00 | -21.84 | peak | | |
| 4 | 5 | 7235.60 | 0 50.68 | 0.01 | 50.69 | 74.00 | -23.31 | peak | | |
| 5 | P | 9647.90 | 42.53 | 3.30 | 45.83 | 74.00 | -28.17 | peak | | |
| 6 | 1 | 16385.00 | 0 36.81 | 13.53 | 50.34 | 74.00 | -23.66 | peak | | |

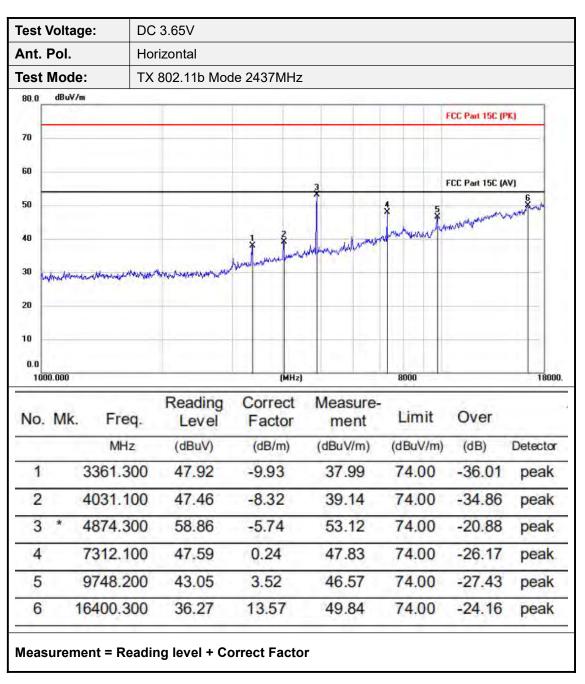
Add:West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China





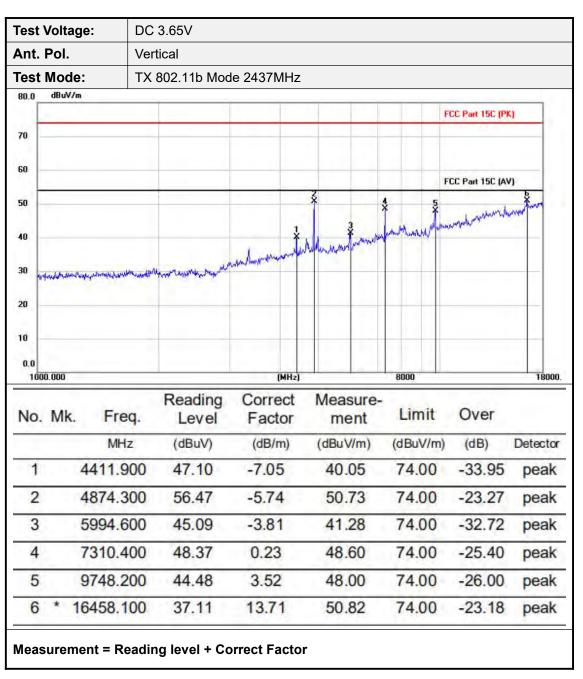
Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China





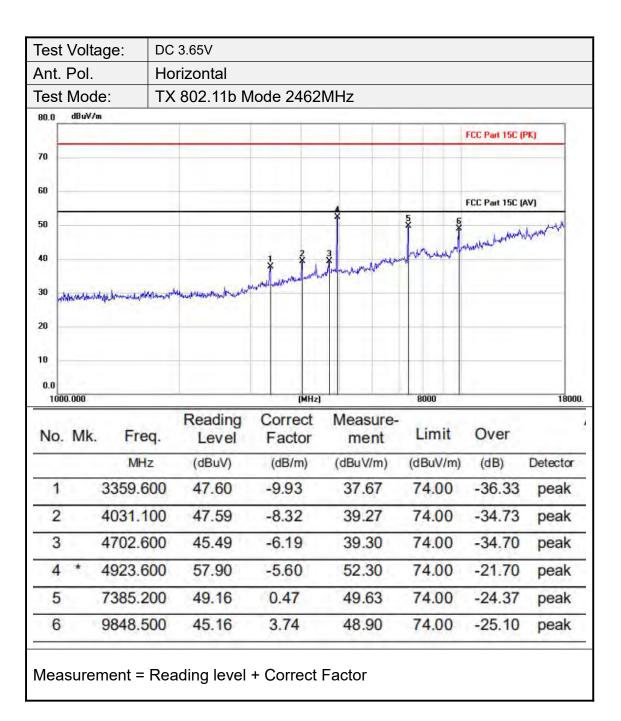
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| U | | DC 3.65V | | | | | | | |
|------------------------------------|----------------|--|--|---|--|--|------------------------------------|----------------------------------|--|
| | | Vertical TX 802.11b Mode 2462MHz | | | | | | | |
| | | | | | | | | | |
| | | | | | | | FCC Part 15C (P | K] | |
| 70 | | | | | | | | _ | |
| 60 | | | | | _ | | | | |
| - | | | | | 3 | 5 | FCC Part 15C (A | - | |
| 50 | | | | | | 6× | www.annuluk | readent | |
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| 30 | | el a contrator | hand the state of the | provident and | The second s | | | | |
| H | away the state | Maturity Municipal Address A | Manager and Alexander and a second | | | | | | |
| | | | | | | | | | |
| 20 | | | | | | | | | |
| 20 10 | | | | | | | | | |
| 10 0.0 | | | | | | | | | |
| 10 0.0 | 00.000 | | | (MHz) | | 8000 | | 18000 | |
| 10 0.0 100 | | | Reading | | | | Over | 18000 | |
| 10 0.0 100 | 00.000 | | Reading | (MHz) Correct | Measure- | | 10.000 | T8000 | |
| 10 0.0 100 | 00.000 | Freq. | Reading Level (dBuV) | (MH2) Correct Factor | Measure- ment | Limit | 10.000 | | |
| 10 0.0 100 NO. | 00.000 | Freq. MHz | Reading Level (dBuV) 46.20 | (MHz) Correct Factor (dB/m) | Measure- ment (dBuV/m) | Limit (dBuV/m) | (dB) | Detector | |
| 10 0.0 100 No. | 00.000 | Freq. MHz 3373.200 | Reading Level (dBuV) 46.20 45.53 | (MHz) Correct Factor (dB/m) -9.91 | Measure- ment (dBuV/m) 36.29 | Limit (dBuV/m) 74.00 | (dB) -37.71 | Detector peak | |
| 10 0.0 100 No. | 00.000 Mk. | Freq. MHz 3373.200 4697.500 | Reading Level (dBuV) 0 46.20 0 45.53 0 59.38 | (MHz) Correct Factor (dB/m) -9.91 -6.22 | Measure- ment (dBuV/m) 36.29 39.31 | Limit (dBuV/m) 74.00 74.00 | (dB) -37.71 -34.69 | Detector peak peak | |
| ¹⁰ 0.0 100 No. | 00.000 Mk. | Freq. MHz 3373.200 4697.500 4923.600 | Reading Level (dBuV) 0 46.20 0 45.53 0 59.38 0 44.71 | (MHz) Correct Factor (dB/m) -9.91 -6.22 -5.60 | Measure- ment (dBuV/m) 36.29 39.31 53.78 | Limit (dBuV/m) 74.00 74.00 74.00 | (dB) -37.71 -34.69 -20.22 | Detector peak peak peak | |

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3.8. CONDUCTED EMISSION

<u>Limit</u>

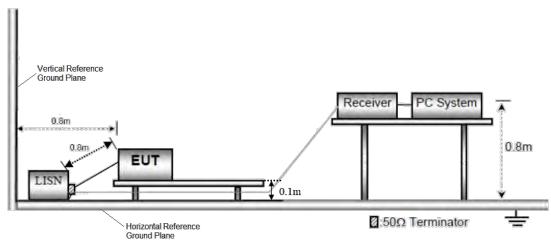
Conducted Emission Test Limit

| Eroguanov | Maximum RF Line Voltage (dBμV) | | | |
|---------------|--------------------------------|---------------|--|--|
| Frequency | Quasi-peak Level | Average Level | | |
| 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * | | |
| 500kHz~5MHz | 56 | 46 | | |
| 5MHz~30MHz | 60 | 50 | | |

Notes:

- (1) *Decreasing linearly with logarithm of the frequency.
- (2) The lower limit shall apply at the transition frequencies.
- (3) The limit decrease in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

Test Configuration



Test Procedure

- 1. The EUT was setup according to ANSI C63.10:2013 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 0.1m above the conducting ground plane. The vertical conducting plane was located 80 cm to the rear of the EUT. All other surfaces of EUT were at least 0.8m from any other grounded conducting surface.
- The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 4. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 5. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 6. Conducted Emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 7. During the above scans, the emissions were maximized by cable manipulation.

Test Mode:

Please refer to the clause 2.2.

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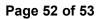
| Add : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing | | | | | | | |
|--|---|---------------------------|------------------------|----------------------|--|--|--|
| | Bao'an District, Shenzhen, Guangdong, China | | | | | | |
| | Tel:+(86) 0755-2985 2678 | Fax: +(86) 0755-2985 2397 | E-mail:info@gdksign.cn | Web: www.gdksign.com | | | |



Note: The device is powered by an internal battery, so this item is not available.

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5.PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Please refer to the report Report No.: KS2204S1365E01

--THE END--

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