



TEST REPORT

Applicant: Shenzhen Hongshengda Optoelectronic Technology Co. , Ltd
Address of Applicant: 3rd Floor, Building 4, No. 161 Xingye Road Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen
Manufacturer: Shenzhen Hongshengda Optoelectronic Technology Co. , Ltd
Address of Manufacturer: 3rd Floor, Building 4, No. 161 Xingye Road Fenghuang Community, Fuyong Street, Bao'an District, Shenzhen
Product Name: Smart Mobile Display
Model No.: HSD-215,D01,D01T,D01A,D01AI,D02,D02T,D02A,D02AI,P01,P01A,P01AI,D01-T,D02-T,HSD-215ZJ,HSD-215ZJD01,HSD-215ZJD02
Trade Mark: N/A
FCC ID: 2BDTM-HSD215
Applicable standards: CFR Title 47 Part 15.247
Date of Test: Jul.04, 2025-Jul.24, 2025
Date of report issued: Jul.25, 2025

Remark:

The results shown in this test report refer only to the sample(s) tested , this test report cannot be reproduced, except in full without prior written permission of the company.

The report would be invalid without specific stamp of test institute and the signatures of compiler and approver

Prepared By

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| Report Revision History | | |
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1. Test Summary

| Test Item | Section | Result | Test by |
|----------------------------------|--|--------|-------------|
| Antenna requirement | 47CRF part 15.203/15.247 (c) | Pass | / |
| AC Power Line Conducted Emission | 47CRF part 15.207 | Pass | Jason Huang |
| Conducted Peak Output Power | 47CRF part 15.247 (b)(3) | Pass | Kara Wu |
| 6dB Bandwidth | 47CRF part 15.247 (a)(2) | Pass | Kara Wu |
| Power Spectral Density | 47CRF part 15.247 (e) | Pass | Kara Wu |
| Band Edge | 47CRF part 15.247(d) 47CRF part 15.205/15.209 | Pass | Kara Wu |
| Spurious Emission | 47CRF part 15.247(d) 47CRF part 15.205/15.209 | Pass | Jason Huang |

Remarks:

1. Pass: The EUT complies with the essential requirements in the standard.
2. Test according to ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02.
3. Note: Compliance determination rules
 - 1).The Compliance determination of test results does not take into account measurement uncertainty. Measurement results are determined based on regulatory limitations or requirements specified by the applicant/manufacturer. If measurement uncertainty is taken into account, the applicant/manufacturer will bear all possible risks of non-compliance.
 - 2).The measurement uncertainty please refer to each test result in the "Measurement Uncertainty"

Measurement Uncertainty

| Test Item | Measurement Uncertainty | Notes |
|-----------------------------------|-------------------------|-------|
| Occupied Channel Bandwidth | 0.55% | (1) |
| RF output power, conducted | ±0.57 dB | (1) |
| Power Spectral Density, conducted | ±0.61 dB | (1) |
| Unwanted Emissions, conducted | ±0.64 dB | (1) |
| AC Power Line Conducted Emission | ± 2.55 dB | (1) |
| Radiated emissions 9K-30MHz | ±3.79 dB | (1) |
| Radiated emissions 30M- 1GHz | ± 4.24 dB | (1) |
| Radiated emissions 1GHz-18GHz | ± 4.26 dB | (1) |
| Radiated emissions 18GHz-40GHz | ±4.17 dB | (1) |
| Frequency error | Uc=1X10-7 | (1) |
| Duty Cycle | 0.03% | (1) |

Note (1): The measurement uncertainty is for coverage factor of k=2 and a level of confidence of 95%.

2. General Information

2.1 General Description of EUT

| | |
|------------------------|--|
| Product Name: | Smart Mobile Display |
| Model No.: | HSD-215,D01,D01T,D01A,D01AI,D02,D02T,D02A,D02AI,P01, P01A,P01AI,D01-T,D02-T,HSD-215ZJ,HSD-215ZJD01,HSD-215ZJD02 |
| Difference of model(s) | All models have the same circuit and RF module, except for the model name and color |
| Test Model: | HSD-215 |
| Hardware version: | V1.0 |
| Software version: | 1.0 |
| Sample(s) Status | Engineer sample |
| Channel numbers: | 802.11b/802.11g /802.11n20: 11 802.11n40:7 |
| Channel separation: | 5MHz |
| Modulation technology: | 802.11b: Direct Sequence Spread Spectrum (DSSS) 802.11g/802.11n20/802.11n40: Orthogonal Frequency Division Multiplexing (OFDM) |
| Antenna Type: | FPCB antenna |
| Antenna gain: | 1.99dBi (Note: Antenna information is provided by applicant, Testing lab is not responsible for the accuracy of the information.) |
| Power supply: | 15VDC from adapter with 100-240Vac |
| Battery: | DC 11.1V 6000mAh |
| Adapter: | Model: LC36C-150240Z Input:100-240Vac 0.8A Output: 15V/2.4A |

For more details, refer to the user's manual of the EUT.



| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2412MHz | 4 | 2427MHz | 7 | 2442MHz | 10 | 2457MHz |
| 2 | 2417MHz | 5 | 2432MHz | 8 | 2447MHz | 11 | 2462MHz |
| 3 | 2422MHz | 6 | 2437MHz | 9 | 2452MHz | X | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Test channel | Frequency (MHz) | |
|-----------------|---------------------------|-----------|
| | 802.11b/802.11g/802.11n20 | 802.11n40 |
| Lowest channel | 2412MHz | 2422MHz |
| Middle channel | 2437MHz | 2437MHz |
| Highest channel | 2462MHz | 2452MHz |



2.2 Test mode

| | |
|--|--|
| Transmitting mode | Keep the EUT in continuously transmitting mode |
| <i>Remark: For battery operated equipment, the EUT was performed using a new DC 11.1V battery.</i> | |

| | | | | |
|--|---------|---------|---------------|---------------|
| We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows: | | | | |
| Pre-scan all kind of data rate in lowest channel, and found the follow list which it was worst case. | | | | |
| Mode | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) |
| Data rate | 1Mbps | 6Mbps | 6.5Mbps | 13Mbps |

2.3 Description of Support Units

| No. | Description | Manufacturer | Model | Serial Number |
|-----|-------------|--------------|-------|---------------|
|-----|-------------|--------------|-------|---------------|

2.4 Test Facility

| | |
|-----------------------------|---|
| Test laboratory: | Shenzhen ETR Standard Technology Co., Ltd. |
| CNAS Registration Number: | L11864 |
| A2LA Certificate Number: | 6640.01 |
| FCC Designation Number: | CN1326 |
| FCC Test Firm Registration: | 183064 |
| IC Company Number: | 28440 |
| IC CAB identifier: | CN0132 |
| Laboratory location: | No.103, No.10, Phase I, Zone 3, Xinxing Industrial Park, Xinhe, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China |

2.5 Additional Instructions

| | |
|-------------------|------------------|
| Test Software | Engineering mode |
| Power level setup | Default |

3. Test Instruments list

| Item | Equipment name | Manufacturer | Model | Serial No. | Calibration date | Due date |
|------|--------------------------|---------------------|-------------------------|--------------|------------------|-----------|
| 1 | EMI Test Receiver | Rohde&schwarz | ESCI7 | 100605 | 2025.3.06 | 2026.3.05 |
| 2 | EMI Test Receiver | Rohde&schwarz | ESCI3 | 102696 | 2025.3.06 | 2026.3.05 |
| 3 | Loop Antenna | schwarabeck | FMZB 1519 B | FMZB 1519 B | 2024.3.22 | 2026.3.21 |
| 4 | Broadband antenna | schwarabeck | VULB9168 | 1064 | 2024.3.26 | 2026.3.25 |
| 5 | Horn antenna | schwarabeck | BBHA9120D | 9120D-1145 | 2024.3.22 | 2026.3.21 |
| 6 | amplifier | EMtrace | RP01A | 50117 | 2025.3.06 | 2026.3.05 |
| 7 | AMN | schwarabeck | NSLK8127 | 8127483 | 2025.3.06 | 2026.3.05 |
| 8 | AMN | ETS | 3186/2NM | 1132 | 2025.3.06 | 2026.3.05 |
| 9 | 10dB attenuator | HUBER+SUHNR | 10dB | / | 2025.3.06 | 2026.3.05 |
| 10 | amplifier | Space-Dtronics | EWLAN0118G-P40 | 19113001 | 2025.3.06 | 2026.3.05 |
| 11 | Filter | Xingbo | XBLBQ-GTA19 | 210410-3-1 | 2025.3.06 | 2026.3.05 |
| 12 | Spectrum analyzer | KEYSIGHT | N9020A | MY55370280 | 2025.3.06 | 2026.3.05 |
| 13 | Power control box | MWRFTtest | MW100-PSB | MW201020JYT | 2025.3.06 | 2026.3.05 |
| 14 | Power Sensor | Keysight | U2021XA | MY54111006 | 2025.3.06 | 2026.3.05 |
| 15 | amplifier | SKET | LNPA_1840-50 (18-40GHz) | SK2019040302 | 2025.3.06 | 2026.3.05 |
| 16 | Horn antenna | schwarabeck | BBHA 9170 | 946 | 2024.3.22 | 2026.3.21 |
| 17 | Temp. & Humidity Chamber | Jiecheng Instrument | QA-LP-80 | 20160705001 | 2025/3/07 | 2026/3/06 |

Note: the calibration interval of the above test instruments is 12 or 24 months and the calibrations are traceable to international system unit (SI).

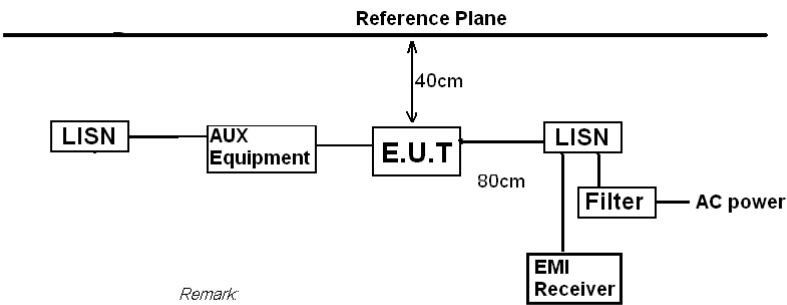
| Software Name | Manufacturer | Model | Version |
|-------------------------|--------------|----------|-------------------|
| RF test software | MWRFTtest | MTS 8310 | V2.0.0.0 |
| Conducted test software | EZ-EMC | Farad | Ver.EMC-CON 3A1.1 |
| Radiated test software | EZ-EMC | Farad | Ver.FA-03A2 RE |

4. Test results and Measurement Data

4.1 Antenna requirement

| | |
|--|---------------------------|
| Standard requirement: | 47CRF Part 15.203 /247(c) |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. | |
| 15.247(c) (1)(i) requirement: (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. | |
| EUT Antenna: The antenna is FPCB antenna, the best case gain of the is 1.99dBi, reference to the Internal photos for details. | |

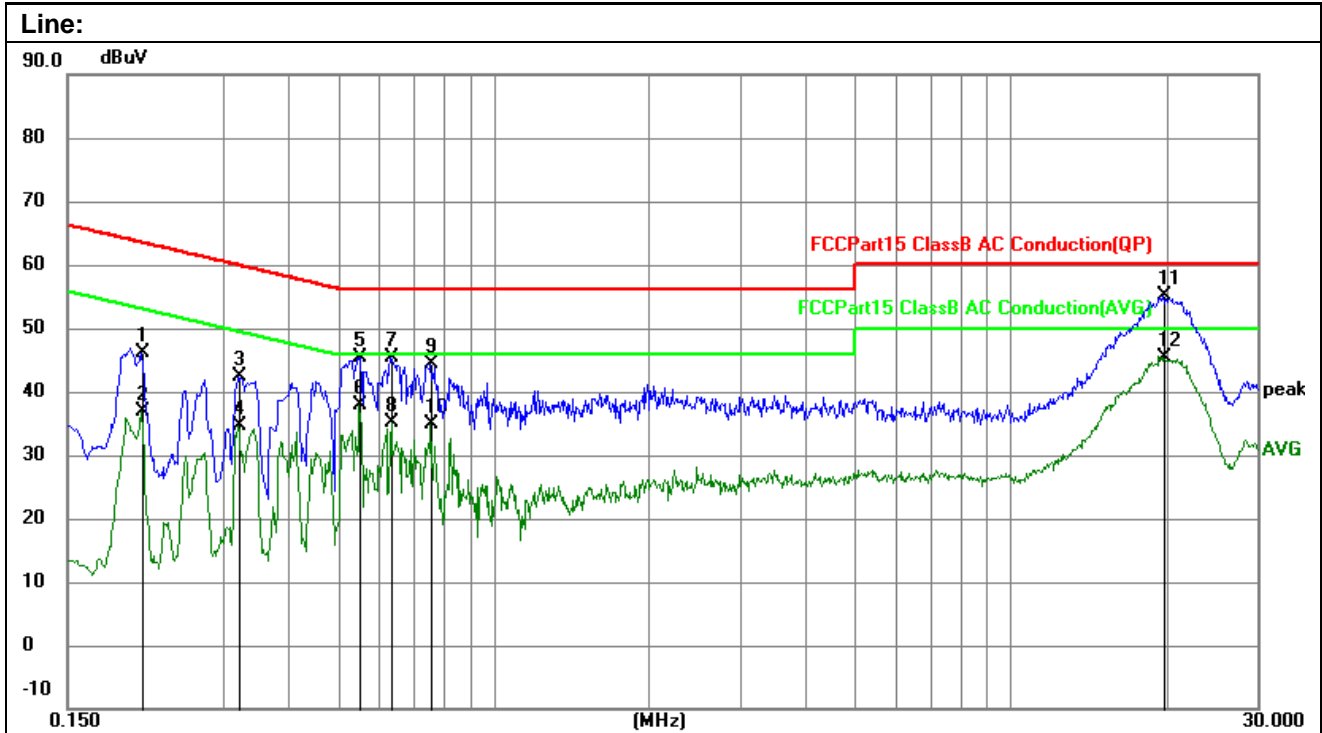
4.2 Conducted Emissions

| | | | | | | | |
|--|--|--------------|---------|-----------|---------|----------|--|
| Test Requirement: | 47CRF part 15.207 | | | | | | |
| Test Method: | ANSI C63.10:2013 | | | | | | |
| Test Frequency Range: | 150KHz to 30MHz | | | | | | |
| Receiver setup: | RBW=9KHz, VBW=30KHz, Sweep time=auto | | | | | | |
| Limit: | Frequency range (MHz) | Limit (dBuV) | | | | | |
| | | Quasi-peak | | Average | | | |
| | 0.15-0.5 | 66 to 56* | | 56 to 46* | | | |
| | 0.5-5 | 56 | | 46 | | | |
| | 5-30 | 60 | | 50 | | | |
| * Decreases with the logarithm of the frequency. | | | | | | | |
| Test setup: |  <p>Remark: E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network</p> | | | | | | |
| Test procedure: | <ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10:2013 on conducted measurement. | | | | | | |
| Test Instruments: | Refer to section 3.0 for details | | | | | | |
| Test mode: | Refer to section 2.2 for details | | | | | | |
| Test environment: | Temp.: | 22.9°C | Humid.: | 57% | Press.: | 1012mbar | |
| Test voltage: | AC 120V, 60Hz | | | | | | |
| Test results: | Pass | | | | | | |

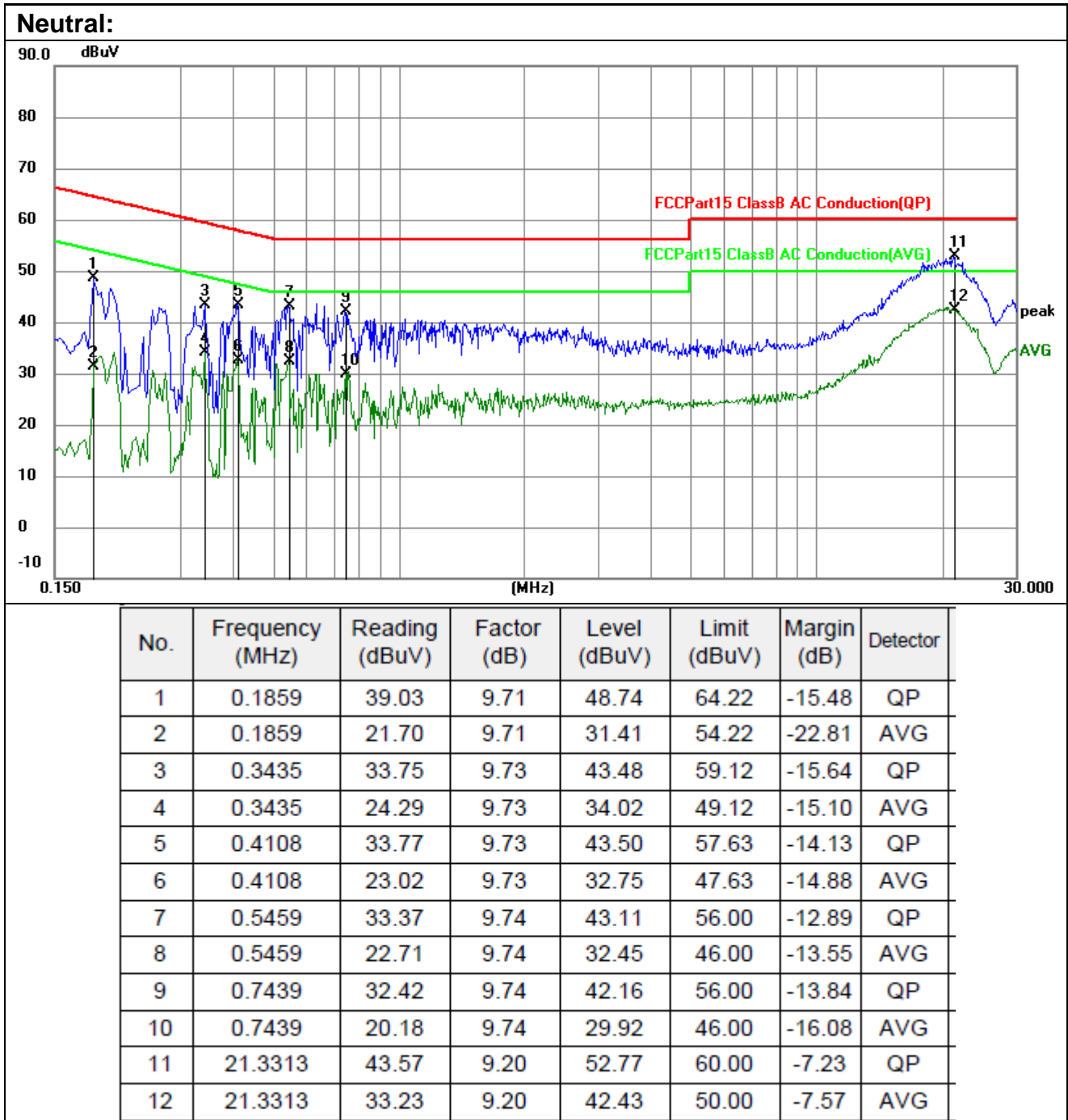
Remark:

1. Both high voltage and low voltage have been tested, and the report only shows the worst case data with AC 120V/60Hz.
2. All mode have been tested, the report only shows the worst mode of 802.11b (2412MHz)

Measurement Result



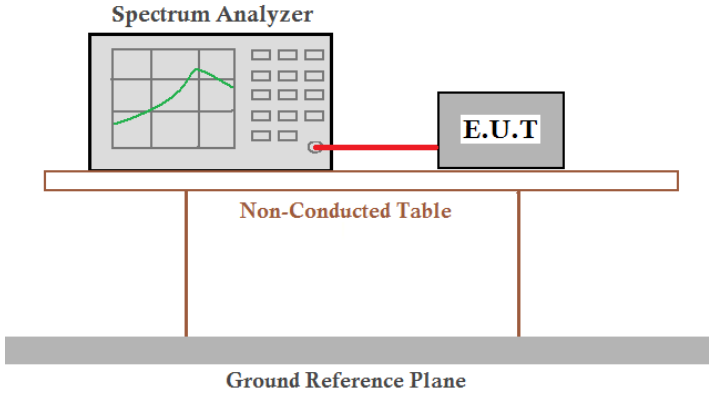
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB) | Level (dBuV) | Limit (dBuV) | Margin (dB) | Detector |
|-----|-----------------|----------------|-------------|--------------|--------------|-------------|----------|
| 1 | 0.2084 | 36.50 | 9.71 | 46.21 | 63.27 | -17.06 | QP |
| 2 | 0.2084 | 27.05 | 9.71 | 36.76 | 53.27 | -16.51 | AVG |
| 3 | 0.3209 | 32.71 | 9.73 | 42.44 | 59.68 | -17.24 | QP |
| 4 | 0.3209 | 24.99 | 9.73 | 34.72 | 49.68 | -14.96 | AVG |
| 5 | 0.5503 | 35.73 | 9.74 | 45.47 | 56.00 | -10.53 | QP |
| 6 | 0.5503 | 28.18 | 9.74 | 37.92 | 46.00 | -8.08 | AVG |
| 7 | 0.6312 | 35.68 | 9.74 | 45.42 | 56.00 | -10.58 | QP |
| 8 | 0.6312 | 25.37 | 9.74 | 35.11 | 46.00 | -10.89 | AVG |
| 9 | 0.7572 | 34.63 | 9.75 | 44.38 | 56.00 | -11.62 | QP |
| 10 | 0.7572 | 25.05 | 9.75 | 34.80 | 46.00 | -11.20 | AVG |
| 11 | 19.7880 | 45.69 | 9.37 | 55.06 | 60.00 | -4.94 | QP |
| 12 | 19.7880 | 35.90 | 9.37 | 45.27 | 50.00 | -4.73 | AVG |



Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss
4. If the average limit is met when using a quasi-peak detector receiver, the EUT shall be deemed to meet both limits and measurement with the average detector receiver is unnecessary.

4.3 Duty cycle

| | | |
|-------------------|--|---------------|
| Test Method : | ANSI C63.10:2013 | |
| Limit: | / | |
| Test setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

Measurement Result

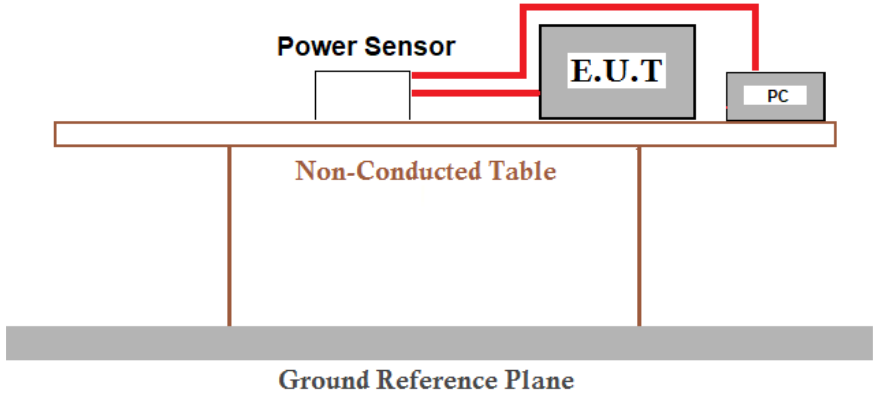
| Mode | Duty cycle (%) | Correction Factor (dB) |
|---------------|----------------|------------------------|
| 802.11b | 86.03 | 0.65 |
| 802.11g | 81.29 | 0.90 |
| 802.11n(HT20) | 84.35 | 0.74 |
| 802.11n(HT40) | 92.83 | 0.32 |



Test plot as follows:



4.4 Peak Conducted Output Power

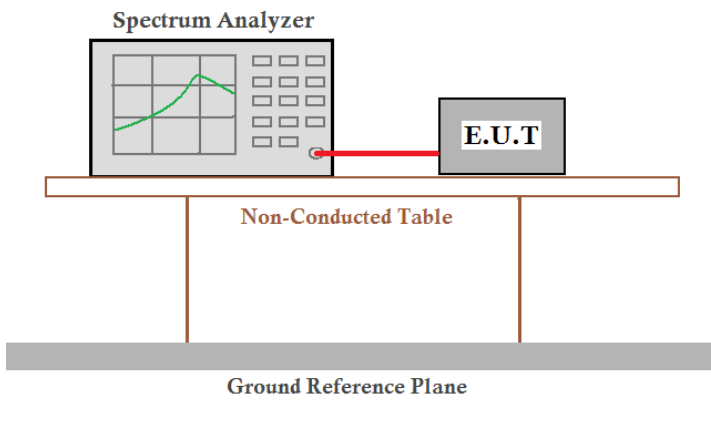
| | | |
|--------------------|--|---------------|
| Test Requirement : | FCC Part15 C Section 15.247 (b)(3) | |
| Test Method : | ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02 | |
| Limit: | 30dBm for peak conducted output power | |
| Test setup: |  <p>The diagram illustrates the test setup. A Power Sensor is connected to an E.U.T. (Equipment Under Test) and a PC. The E.U.T. and PC are placed on a Non-Conducted Table, which is supported by a Ground Reference Plane.</p> | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

Measurement Result see next page



| Test CH | Peak Output Power (dBm) | | | | Limit(dBm) | Result |
|---------|-------------------------|---------|---------------|---------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | 14.82 | 14.55 | 14.40 | 13.47 | 30.00 | Pass |
| Middle | 14.65 | 14.66 | 14.68 | 13.54 | | |
| Highest | 14.54 | 14.67 | 14.59 | 13.72 | | |

4.5 6dB Bandwidth

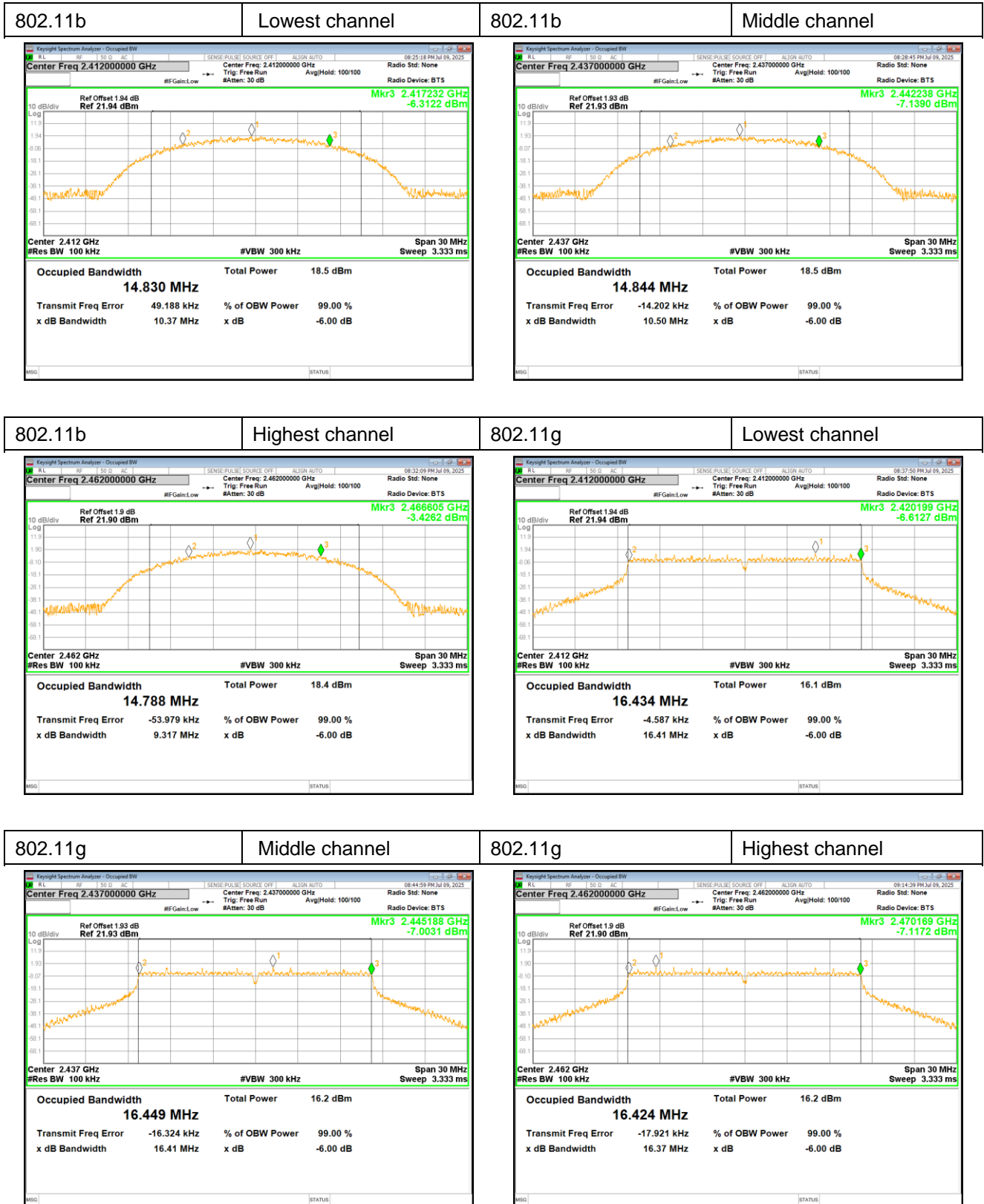
| | | |
|--------------------|--|---------------|
| Test Requirement : | 47CRF Part 15.247 (a)(2) | |
| Test Method : | ANSI C63.10:2013 | |
| Limit: | >500KHz | |
| Test setup: |  | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

Measurement Result

| Test CH | 6dB Bandwidth (MHz) | | | | Limit(KHz) | Result |
|---------|---------------------|---------|---------------|---------------|------------|--------|
| | 802.11b | 802.11g | 802.11n(HT20) | 802.11n(HT40) | | |
| Lowest | 10.37 | 16.41 | 17.64 | 36.41 | >500 | Pass |
| Middle | 10.51 | 16.41 | 17.59 | 36.43 | | |
| Highest | 9.32 | 16.37 | 17.61 | 36.36 | | |

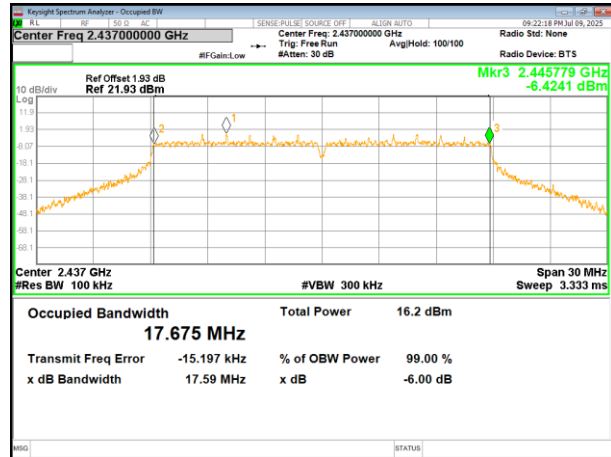
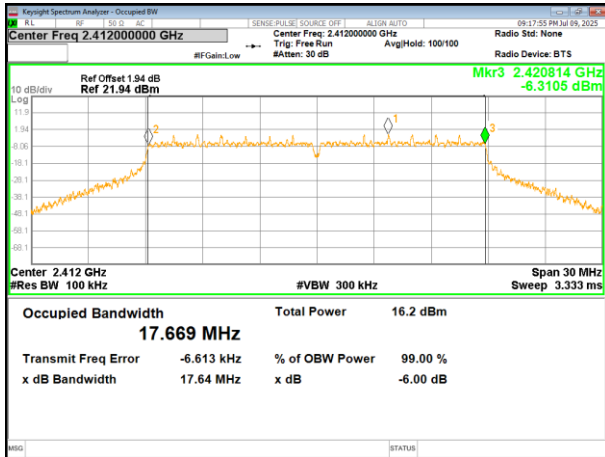


-6 Bandwidth dB Test plot as follows

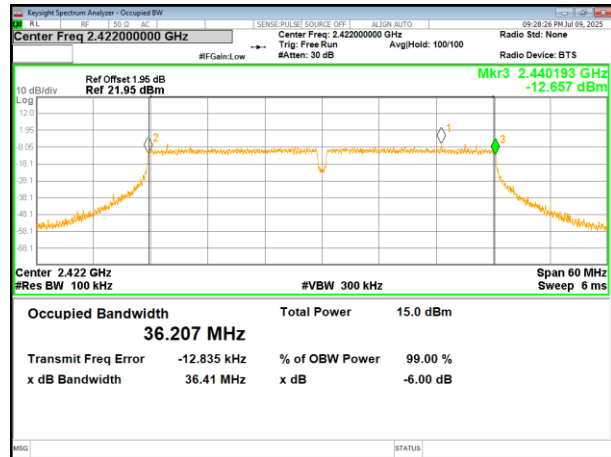
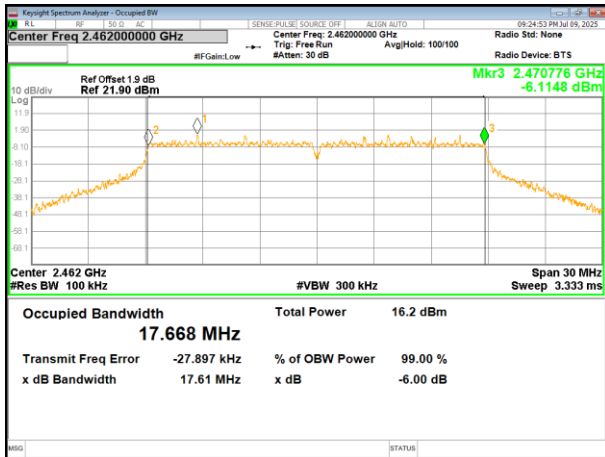




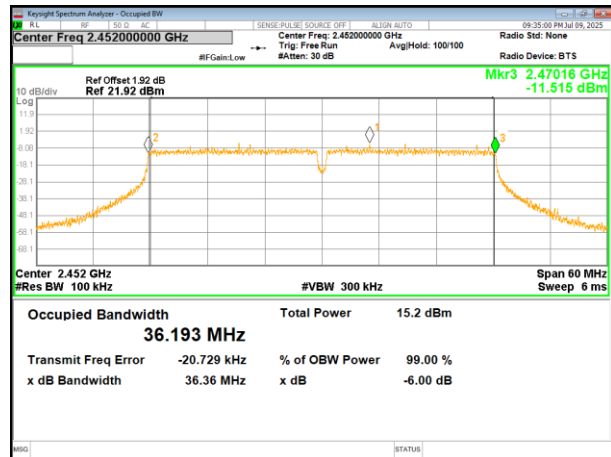
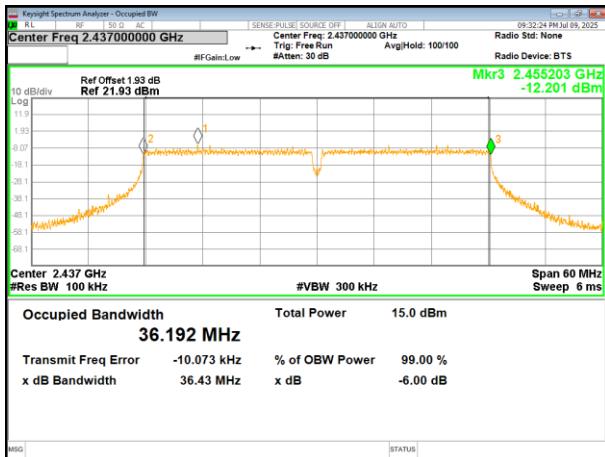
| | | | |
|-----------|----------------|---------|----------------|
| 802.11n20 | Lowest channel | 802.n20 | Middle channel |
|-----------|----------------|---------|----------------|



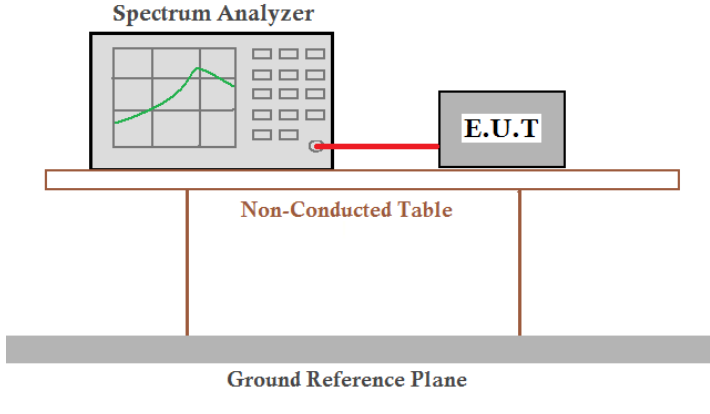
| | | | |
|-----------|-----------------|-----------|----------------|
| 802.11n20 | Highest channel | 802.11n40 | Lowest channel |
|-----------|-----------------|-----------|----------------|



| | | | |
|-----------|----------------|-----------|-----------------|
| 802.11n40 | Middle channel | 802.11n40 | Highest channel |
|-----------|----------------|-----------|-----------------|



4.6 Power Spectral Density

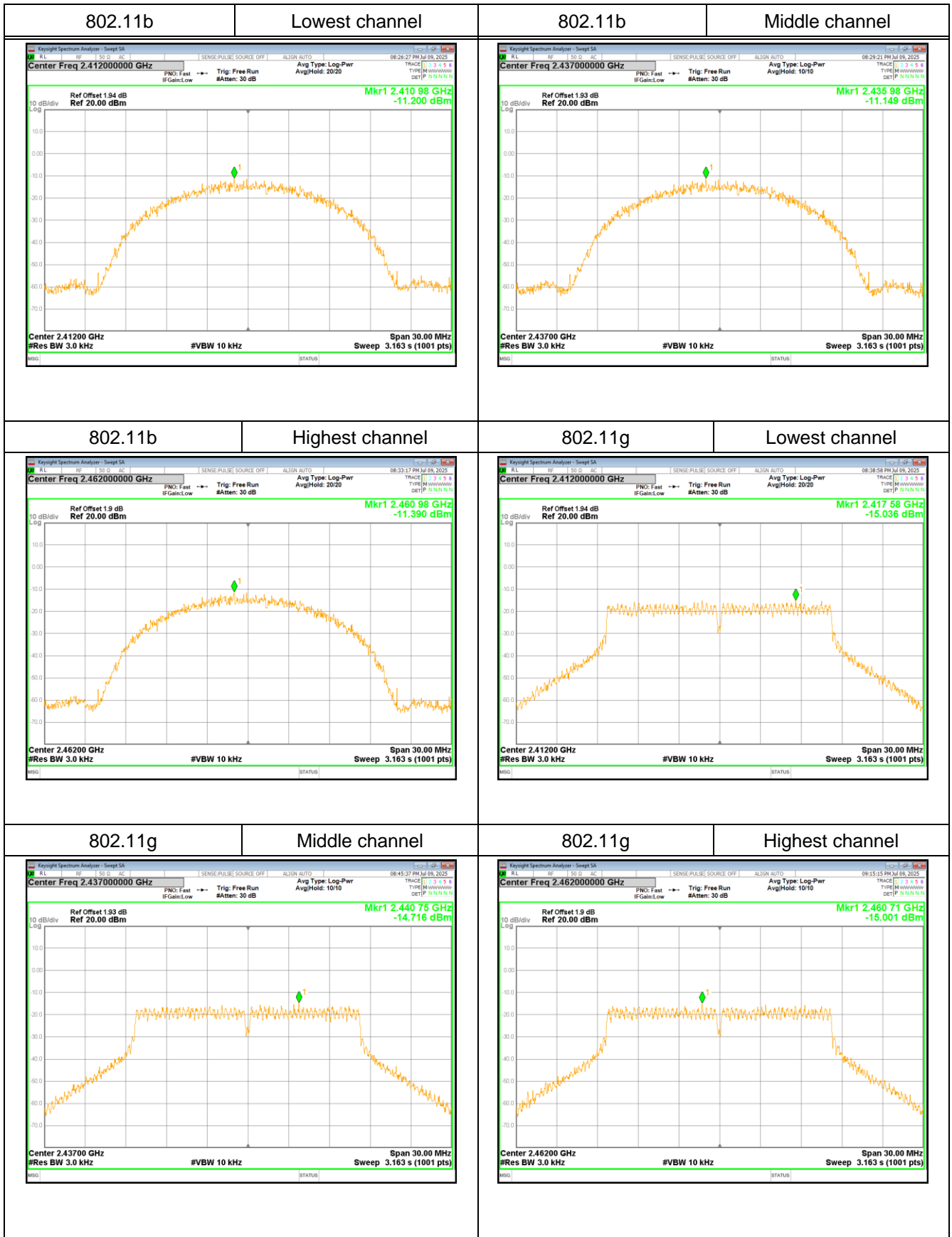
| | | |
|-------------------|--|---------------|
| Test Requirement: | 47CRF Part 15.247 (e) | |
| Test Method: | ANSI C63.10:2013 and KDB558074 D01 15.247 Meas Guidance v05r02 | |
| Limit: | 8dBm/3kHz | |
| Test setup: |  | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

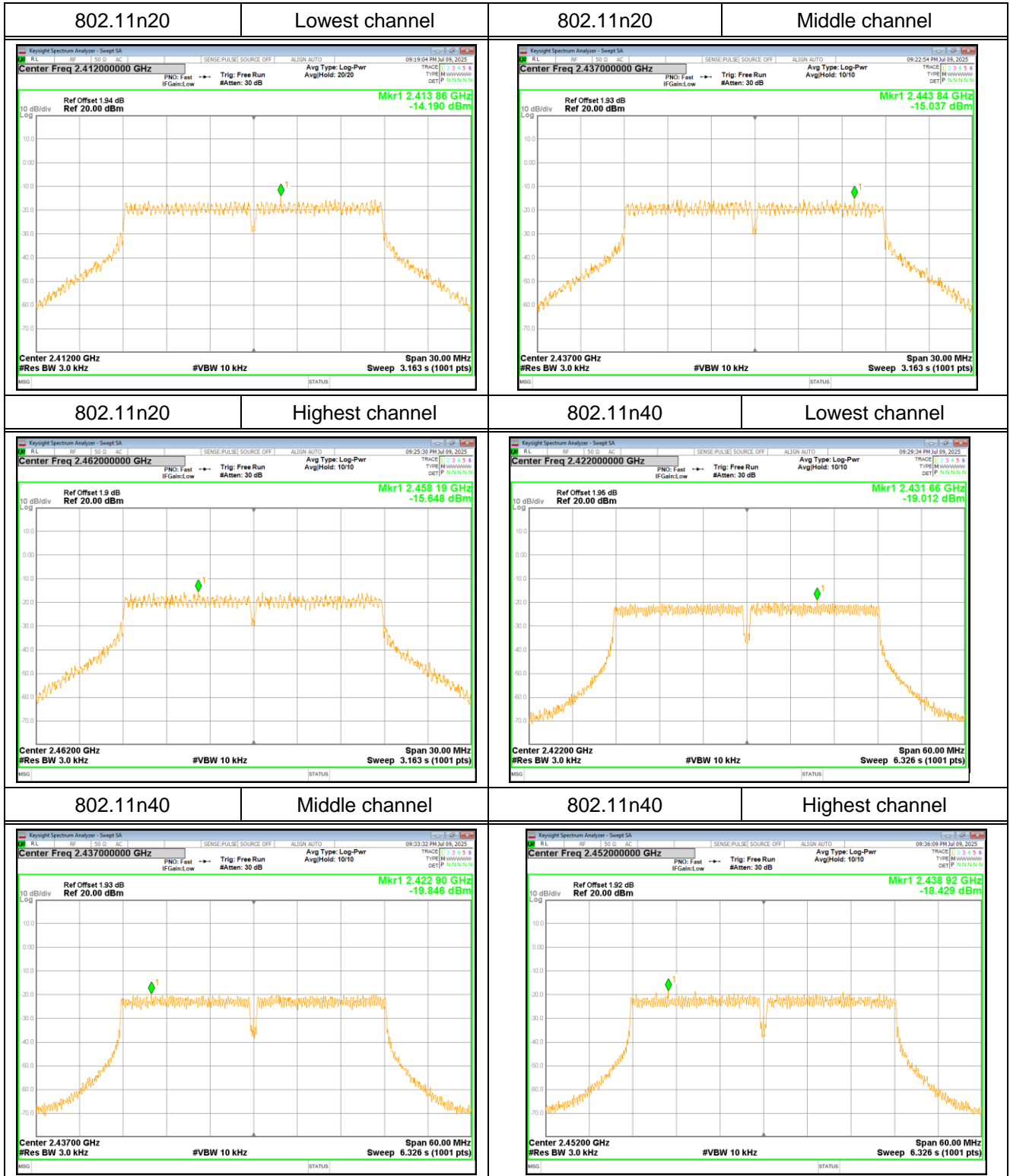
Measurement Result

| Test CH | Power Spectral Density (dBm/3kHz) | | | | Limit (dBm/3kHz) | Result |
|---------|-----------------------------------|---------|-----------|-----------|------------------|--------|
| | 802.11b | 802.11g | 802.11n20 | 802.11n40 | | |
| Lowest | -11.200 | -15.036 | -14.190 | -19.012 | 8.00 | Pass |
| Middle | -11.149 | -14.716 | -15.037 | -19.846 | | |
| Highest | -11.390 | -15.001 | -15.648 | -18.429 | | |



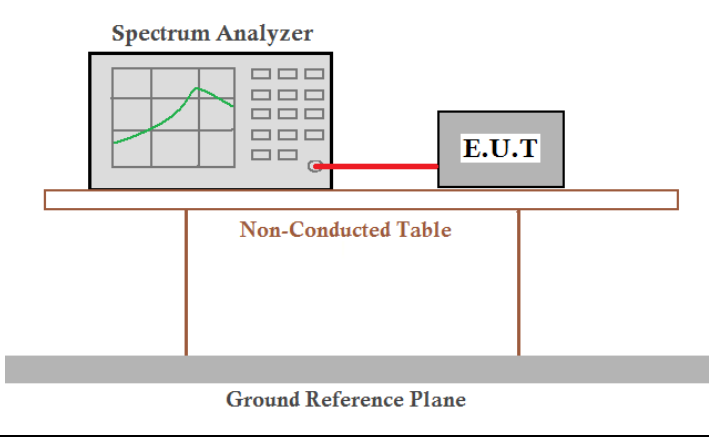
Test plot as follows:





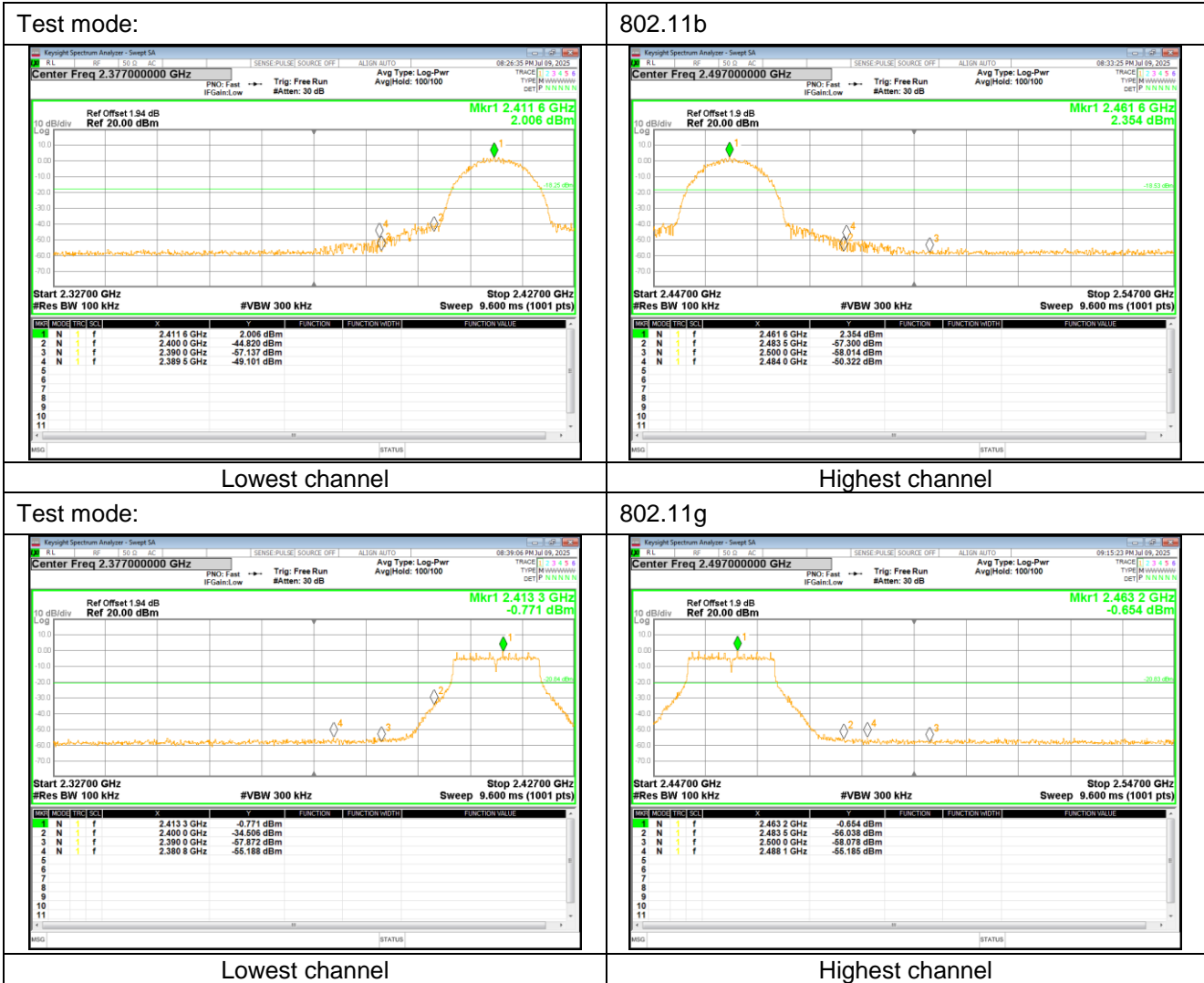
4.7 Band edges

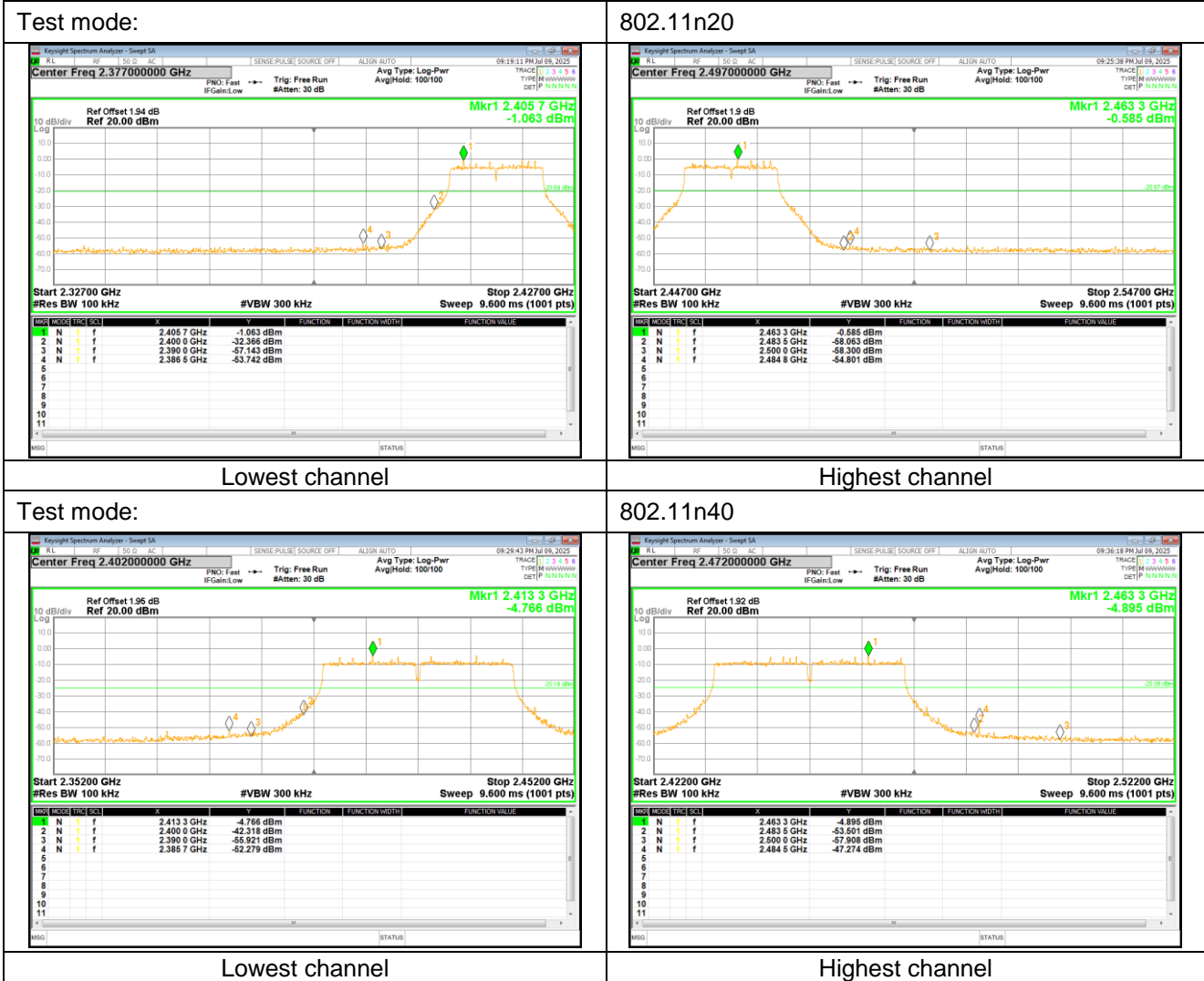
Conducted Emission Method

| | | |
|-------------------|---|---------------|
| Test Requirement: | 47CRF Part 15.247 (d) | |
| Test Method: | ANSI C63.10 | |
| Limit: | 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 setup: |  | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

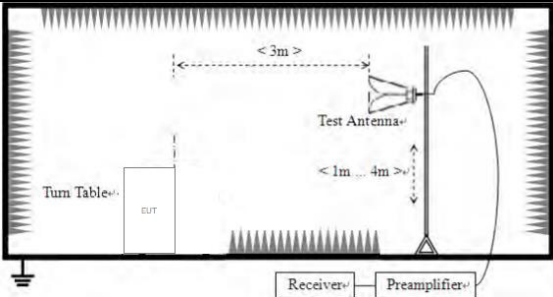


Test plot as follows:





Radiated Emission Method

| | | | |
|-----------------------|---|--------------------|---------|
| Test Requirement: | 47CRF Part 15.209 and 15.205 | | |
| Test Method: | ANSI C63.10: 2013 | | |
| Test Frequency Range: | All of the restrict bands were tested, only the worst band's (2310MHz to 2500MHz) data was showed. | | |
| Test site: | Measurement Distance: 3m | | |
| Receiver setup: | Frequency | Detector | Value |
| | Above 1GHz | Peak | Peak |
| | | Average | Average |
| Limit: | Frequency | Limit (dBuV/m @3m) | Value |
| | Above 1GHz | 54.00 | Average |
| | | 74.00 | Peak |
| Test setup: |  | | |
| Test Procedure: | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. 7. The radiation measurements are performed in X, Y, Z axis positioning. And found the Y axis positioning which it is worse case, only the test worst case mode is recorded in the report. | | |
| Test Instruments: | Refer to section 3.0 for details | | |
| Test mode: | Refer to section 2.2 for details | | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH | |
| Test voltage: | 11.1V DC | | |
| Test results: | Pass | | |



Measurement data:

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 67.10 | -13.36 | 53.74 | 74.00 | -20.26 | Horizontal |
| 2390.00 | 67.00 | -13.03 | 53.97 | 74.00 | -20.03 | Horizontal |
| 2310.00 | 66.83 | -13.36 | 53.47 | 74.00 | -20.53 | Vertical |
| 2390.00 | 69.32 | -13.03 | 56.29 | 74.00 | -17.71 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 59.40 | -13.36 | 46.04 | 54.00 | -7.96 | Horizontal |
| 2390.00 | 59.92 | -13.03 | 46.89 | 54.00 | -7.11 | Horizontal |
| 2310.00 | 59.46 | -13.36 | 46.10 | 54.00 | -7.90 | Vertical |
| 2390.00 | 60.15 | -13.03 | 47.12 | 54.00 | -6.88 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 69.97 | -12.64 | 57.33 | 74.00 | -16.67 | Horizontal |
| 2500.00 | 68.34 | -12.57 | 55.77 | 74.00 | -18.23 | Horizontal |
| 2483.50 | 70.92 | -12.64 | 58.28 | 74.00 | -15.72 | Vertical |
| 2500.00 | 70.02 | -12.57 | 57.45 | 74.00 | -16.55 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 57.81 | -12.64 | 45.17 | 54.00 | -8.83 | Horizontal |
| 2500.00 | 56.14 | -12.57 | 43.57 | 54.00 | -10.43 | Horizontal |
| 2483.50 | 59.35 | -12.64 | 46.71 | 54.00 | -7.29 | Vertical |
| 2500.00 | 58.17 | -12.57 | 45.60 | 54.00 | -8.40 | Vertical |

Remarks:

- 1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.*
- 2. Final Level = Receiver Read level + Factor*
- 3. Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
- 4. Emissions more than 20 dB below the limit do not need to be reported.*



| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 66.96 | -13.36 | 53.60 | 74.00 | -20.40 | Horizontal |
| 2390.00 | 67.31 | -13.03 | 54.28 | 74.00 | -19.72 | Horizontal |
| 2310.00 | 66.78 | -13.36 | 53.42 | 74.00 | -20.58 | Vertical |
| 2390.00 | 67.25 | -13.03 | 54.22 | 74.00 | -19.78 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 55.06 | -13.36 | 41.70 | 54.00 | -12.30 | Horizontal |
| 2390.00 | 55.37 | -13.03 | 42.34 | 54.00 | -11.66 | Horizontal |
| 2310.00 | 55.41 | -13.36 | 42.05 | 54.00 | -11.95 | Vertical |
| 2390.00 | 56.45 | -13.03 | 43.42 | 54.00 | -10.58 | Vertical |

| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 69.28 | -12.64 | 56.64 | 74.00 | -17.36 | Horizontal |
| 2500.00 | 66.76 | -12.57 | 54.19 | 74.00 | -19.81 | Horizontal |
| 2483.50 | 69.75 | -12.64 | 57.11 | 74.00 | -16.89 | Vertical |
| 2500.00 | 66.82 | -12.57 | 54.25 | 74.00 | -19.75 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 57.50 | -12.64 | 44.86 | 54.00 | -9.14 | Horizontal |
| 2500.00 | 55.37 | -12.57 | 42.80 | 54.00 | -11.20 | Horizontal |
| 2483.50 | 57.23 | -12.64 | 44.59 | 54.00 | -9.41 | Vertical |
| 2500.00 | 54.88 | -12.57 | 42.31 | 54.00 | -11.69 | Vertical |

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level =Receiver Read level + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT20) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 65.70 | -13.36 | 52.34 | 74.00 | -21.66 | Horizontal |
| 2390.00 | 67.31 | -13.03 | 54.28 | 74.00 | -19.72 | Horizontal |
| 2310.00 | 66.64 | -13.36 | 53.28 | 74.00 | -20.72 | Vertical |
| 2390.00 | 69.20 | -13.03 | 56.17 | 74.00 | -17.83 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 54.03 | -13.36 | 40.67 | 54.00 | -13.33 | Horizontal |
| 2390.00 | 55.84 | -13.03 | 42.81 | 54.00 | -11.19 | Horizontal |
| 2310.00 | 54.67 | -13.36 | 41.31 | 54.00 | -12.69 | Vertical |
| 2390.00 | 57.22 | -13.03 | 44.19 | 54.00 | -9.81 | Vertical |

| | | | |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT20) | Test channel: | Highest |
|------------|---------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 69.54 | -12.64 | 56.90 | 74.00 | -17.10 | Horizontal |
| 2500.00 | 67.03 | -12.57 | 54.46 | 74.00 | -19.54 | Horizontal |
| 2483.50 | 69.99 | -12.64 | 57.35 | 74.00 | -16.65 | Vertical |
| 2500.00 | 65.97 | -12.57 | 53.40 | 74.00 | -20.60 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 57.40 | -12.64 | 44.76 | 54.00 | -9.24 | Horizontal |
| 2500.00 | 55.33 | -12.57 | 42.76 | 54.00 | -11.24 | Horizontal |
| 2483.50 | 59.35 | -12.64 | 46.71 | 54.00 | -7.29 | Vertical |
| 2500.00 | 54.93 | -12.57 | 42.36 | 54.00 | -11.64 | Vertical |

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level =Receiver Read level + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------------|---------------|--------|
| Test mode: | 802.11n(HT40) | Test channel: | Lowest |
|------------|---------------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 67.04 | -13.36 | 53.68 | 74.00 | -20.32 | Horizontal |
| 2390.00 | 67.54 | -13.03 | 54.51 | 74.00 | -19.49 | Horizontal |
| 2310.00 | 66.76 | -13.36 | 53.40 | 74.00 | -20.60 | Vertical |
| 2390.00 | 68.11 | -13.03 | 55.08 | 74.00 | -18.92 | Vertical |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2310.00 | 55.26 | -13.36 | 41.90 | 54.00 | -12.10 | Horizontal |
| 2390.00 | 86.30 | -13.03 | 73.27 | 54.00 | 19.27 | Horizontal |
| 2310.00 | 55.23 | -13.36 | 41.87 | 54.00 | -12.13 | Vertical |
| 2390.00 | 56.51 | -13.03 | 43.48 | 54.00 | -10.52 | Vertical |

| | | | |
|------------|---------------|---------------|---------|
| Test mode: | 802.11n(HT40) | Test channel: | Highest |
|------------|---------------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 68.94 | -12.64 | 56.30 | 74.00 | -17.70 | Horizontal |
| 2500.00 | 65.60 | -12.57 | 53.03 | 74.00 | -20.97 | Horizontal |
| 2483.50 | 70.10 | -12.64 | 57.46 | 74.00 | -16.54 | Vertical |
| 2500.00 | 66.60 | -12.57 | 54.03 | 74.00 | -19.97 | Vertical |

Average value:

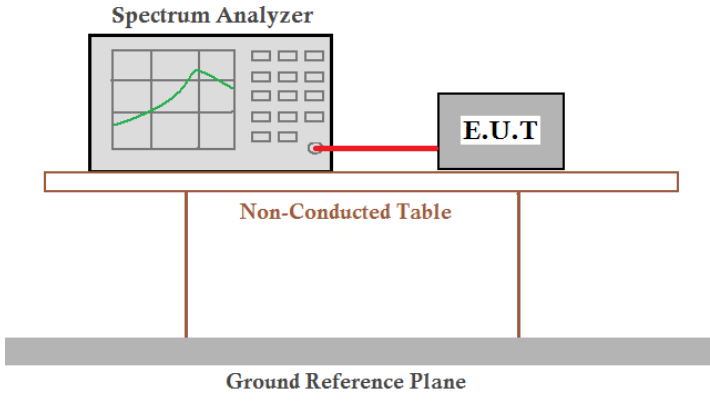
| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 2483.50 | 57.29 | -12.64 | 44.65 | 54.00 | -9.35 | Horizontal |
| 2500.00 | 54.12 | -12.57 | 41.55 | 54.00 | -12.45 | Horizontal |
| 2483.50 | 57.81 | -12.64 | 45.17 | 54.00 | -8.83 | Vertical |
| 2500.00 | 55.24 | -12.57 | 42.67 | 54.00 | -11.33 | Vertical |

Remarks:

1. The pre-test were performed on lowest, middle and highest frequencies, only the worst case's (lowest and highest frequencies) data was showed.
2. Final Level =Receiver Read level + Factor
3. Factor =Antenna Factor + Cable Loss – Preamplifier Factor
4. Emissions more than 20 dB below the limit do not need to be reported.

4.8 Spurious Emission

Conducted Emission Method

| | | |
|-------------------|---|---------------|
| Test Requirement: | 47CRF Part 15.247 (d), 47CRF Part 15.209 | |
| Test Method: | ANSI C63.10-2013 | |
| Limit: | 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 setup: |  | |
| Test Instruments: | Refer to section 3.0 for details | |
| Test mode: | Refer to section 2.2 for details | |
| Test environment: | Temp.: 24.1°C | Humid.: 63%RH |
| Test voltage: | 11.1V DC | |
| Test results: | Pass | |

Remark:

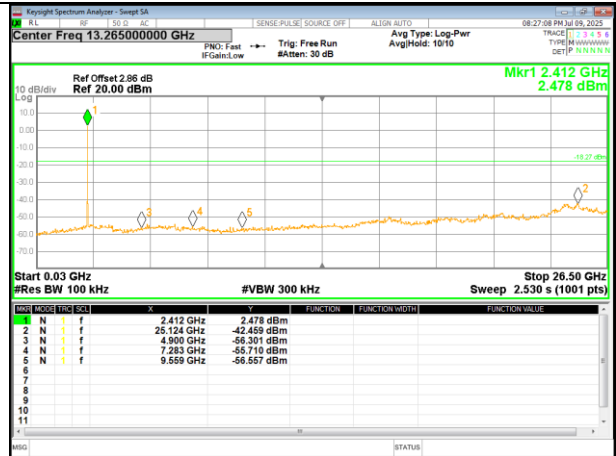
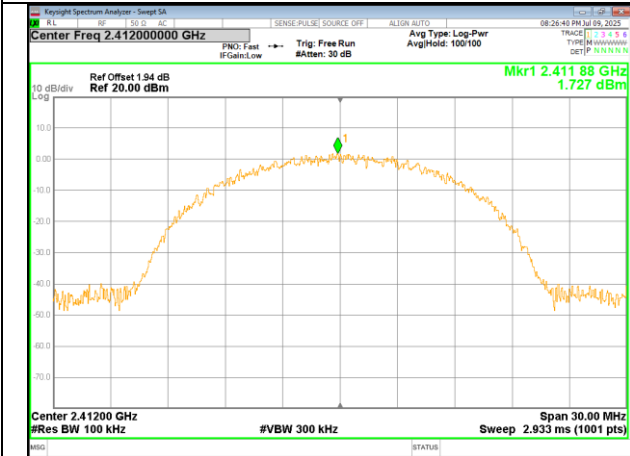
1. Cable loss data included in Offset.



Test plot as follows:

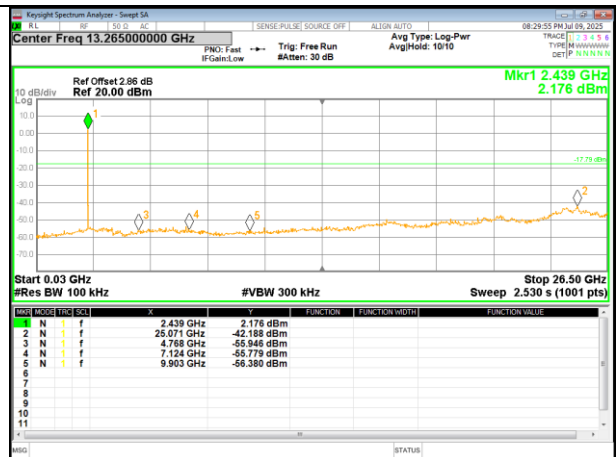
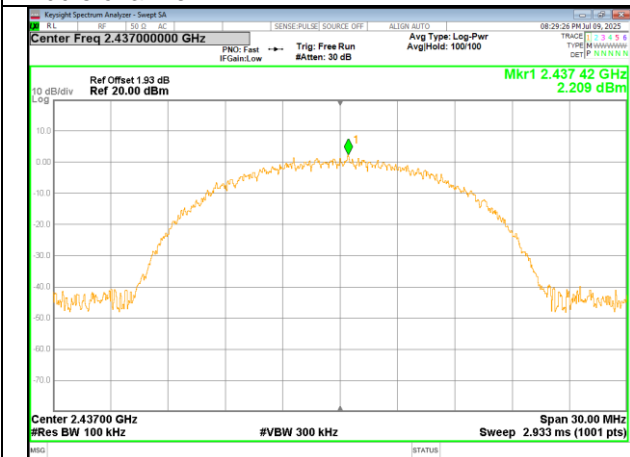
802.11b

Lowest channel



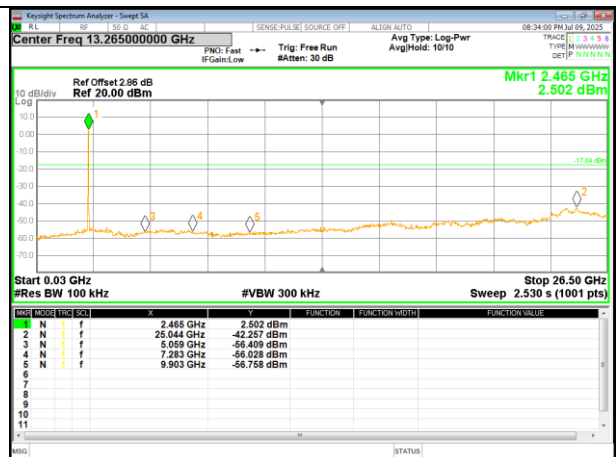
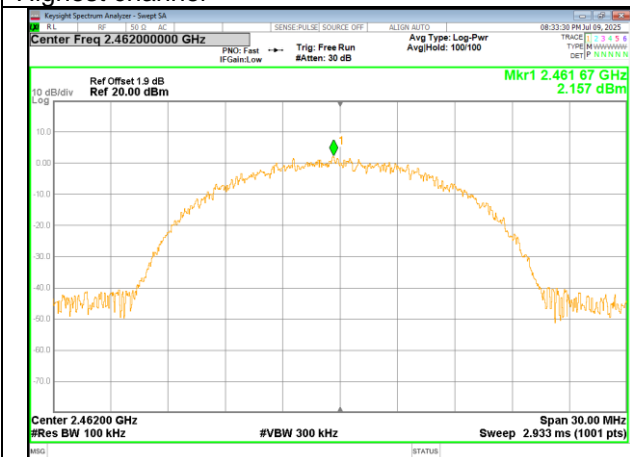
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

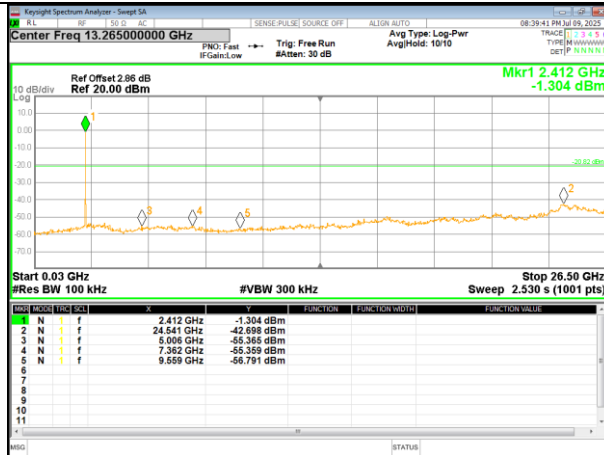
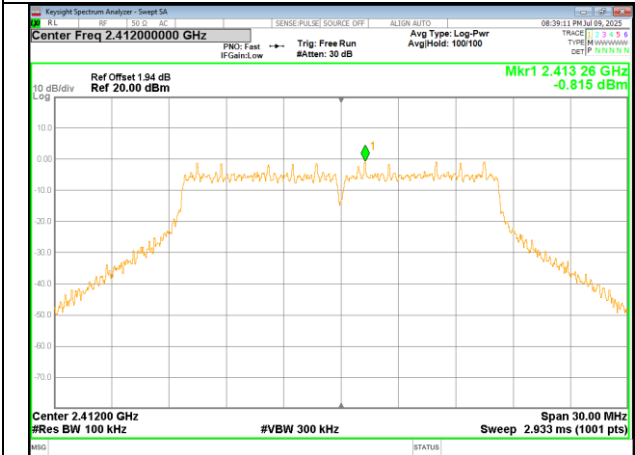


30MHz~25GHz



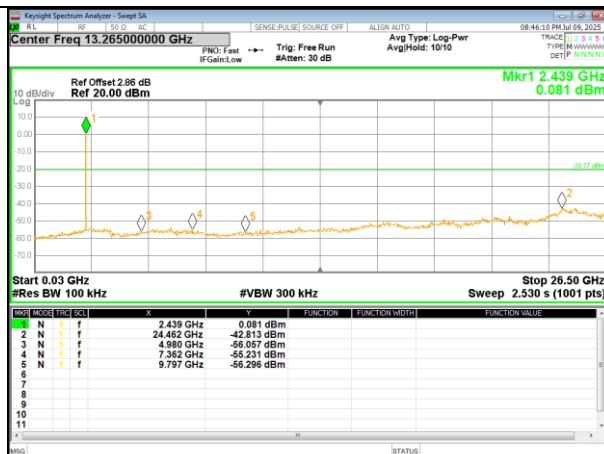
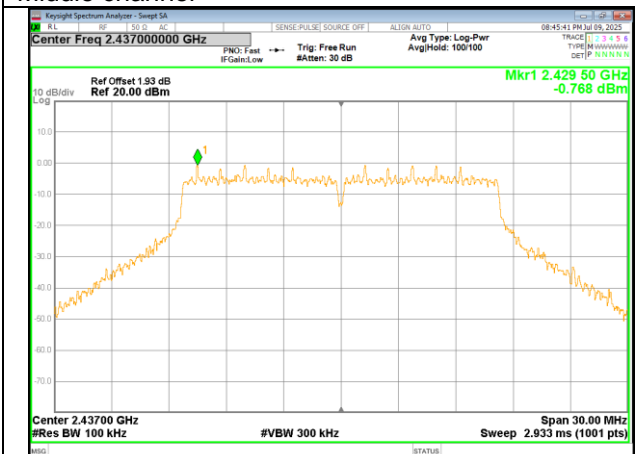
802.11g

Lowest channel



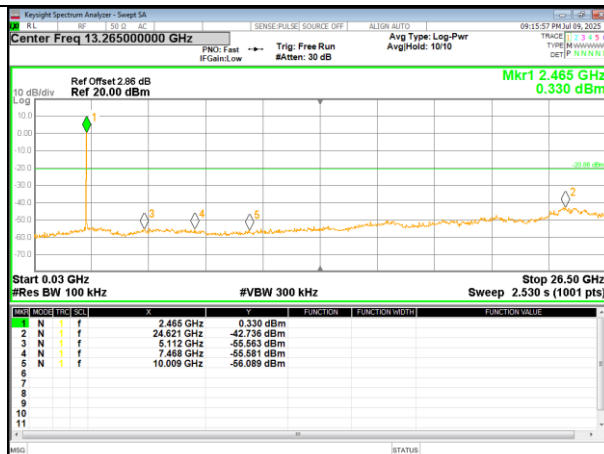
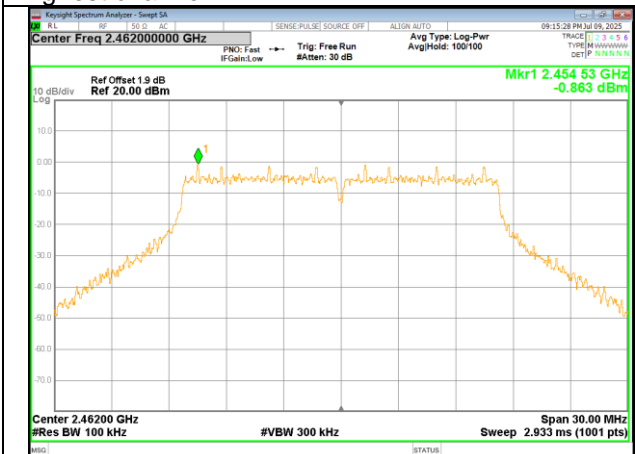
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

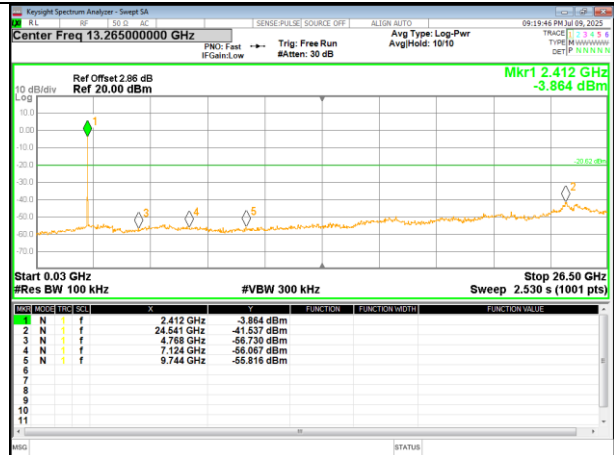
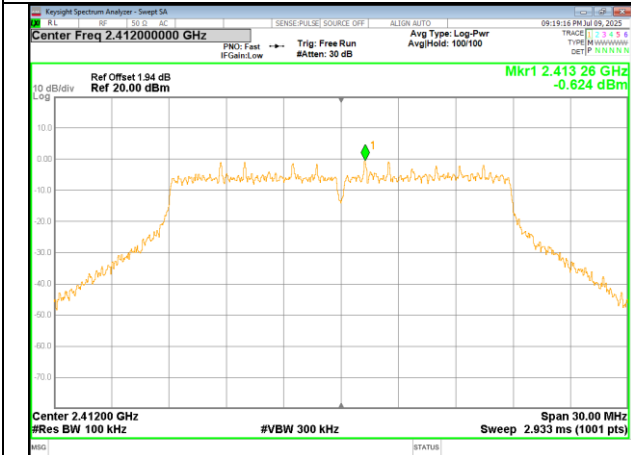


30MHz~25GHz



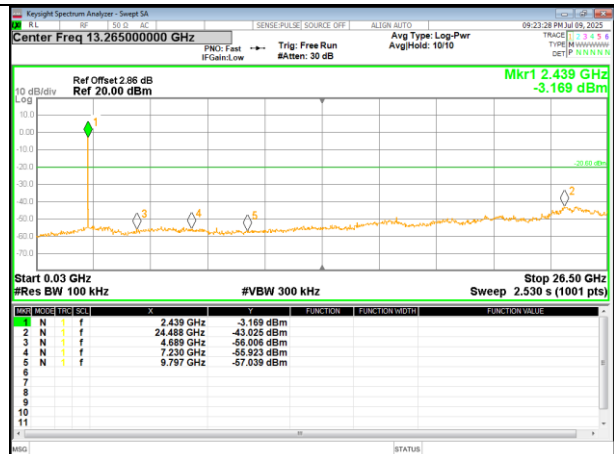
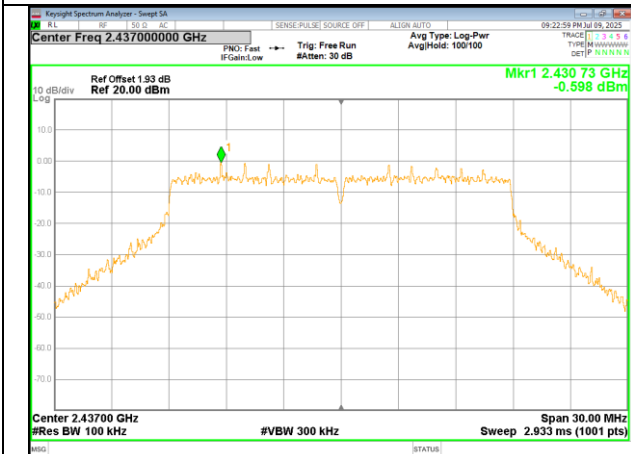
802.11n20

Lowest channel



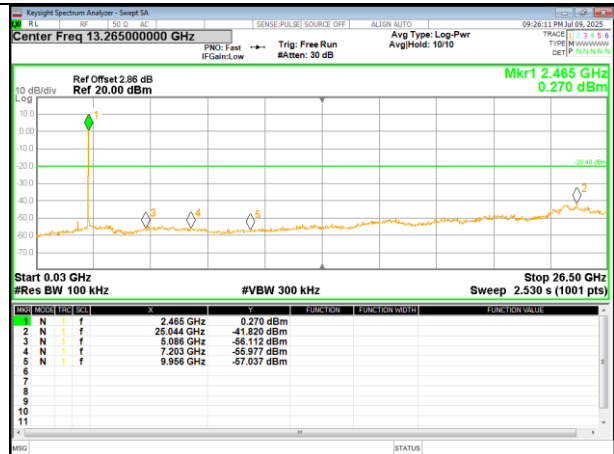
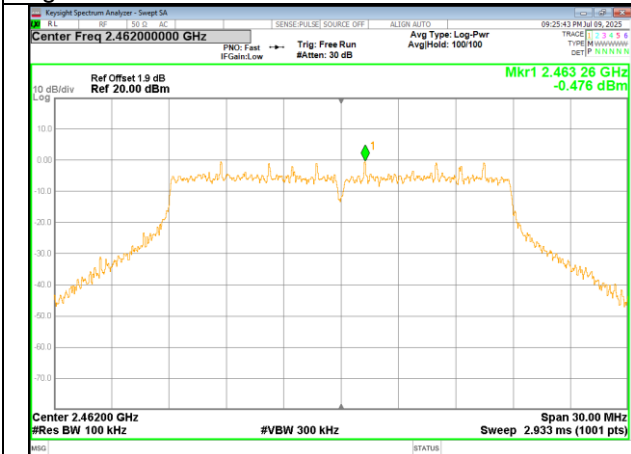
30MHz~25GHz

Middle channel



30MHz~25GHz

Highest channel

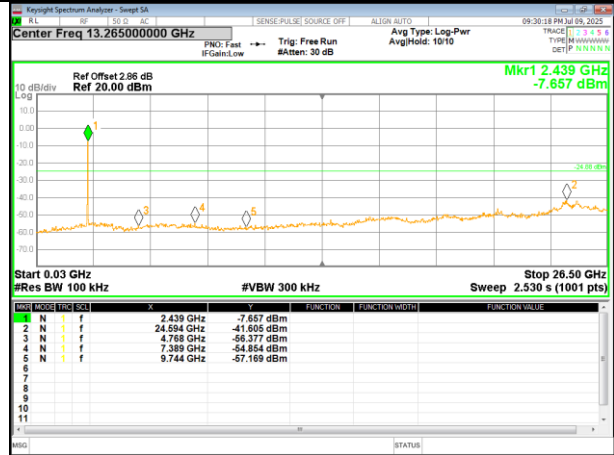
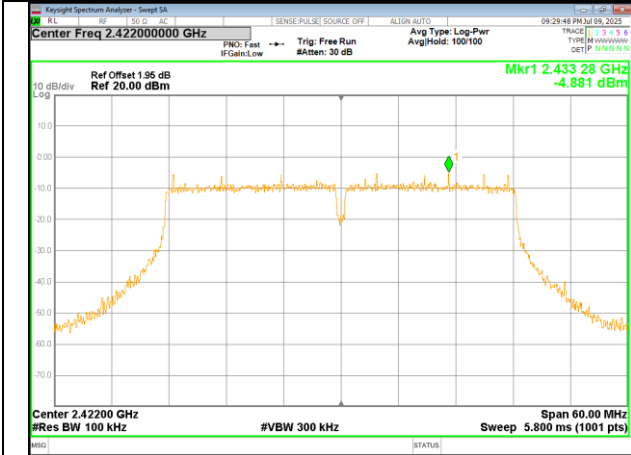


30MHz~25GHz



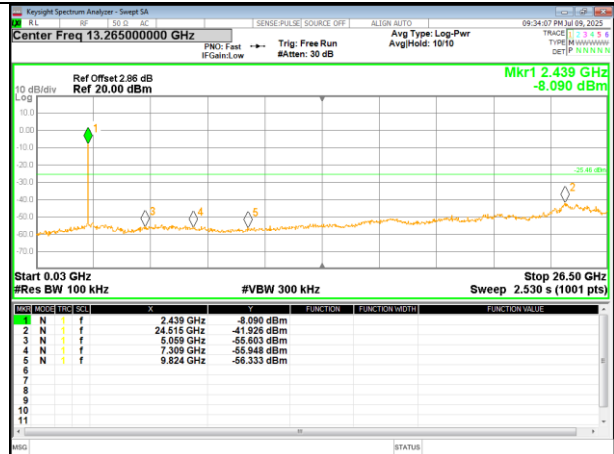
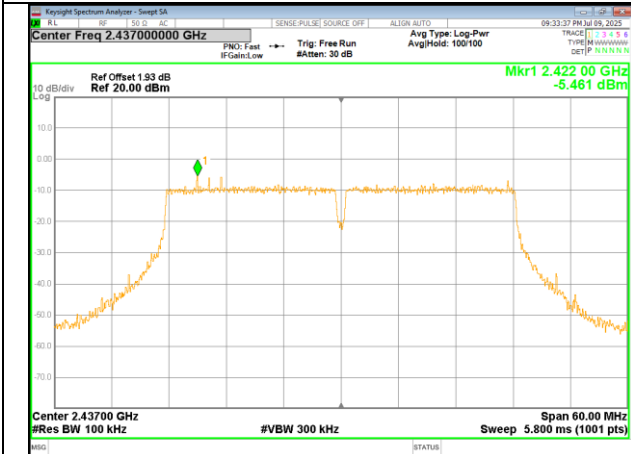
802.11n40

Lowest channel



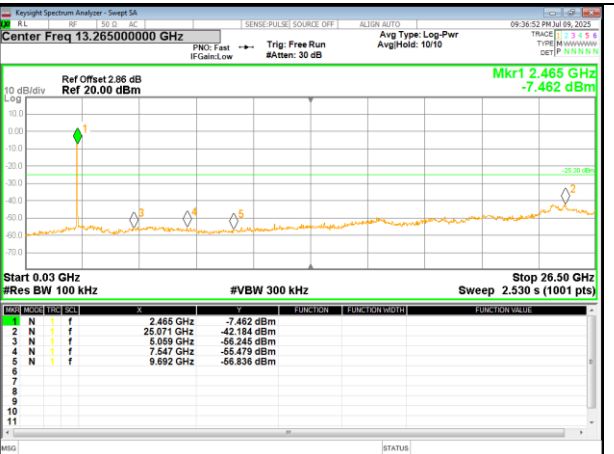
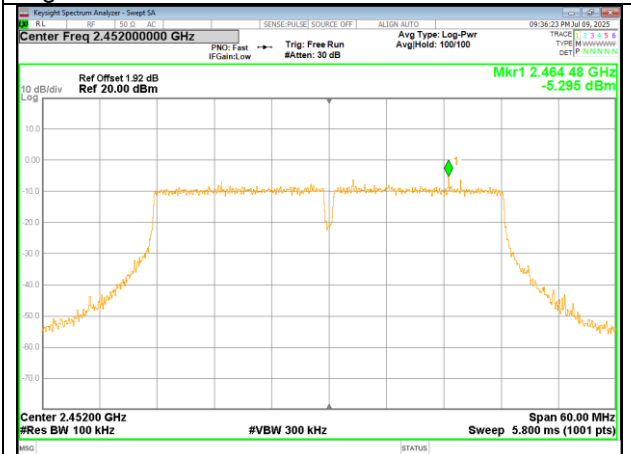
30MHz~25GHz

Middle channel



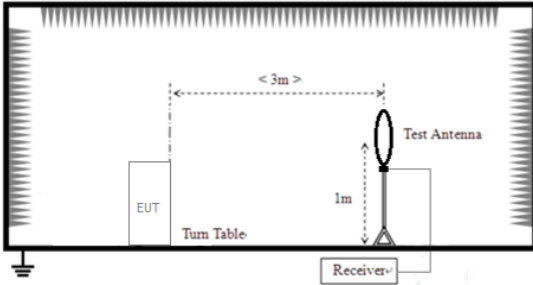
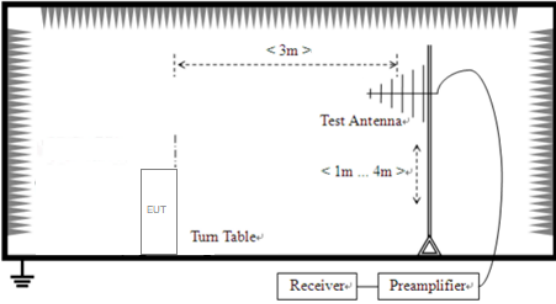
30MHz~25GHz

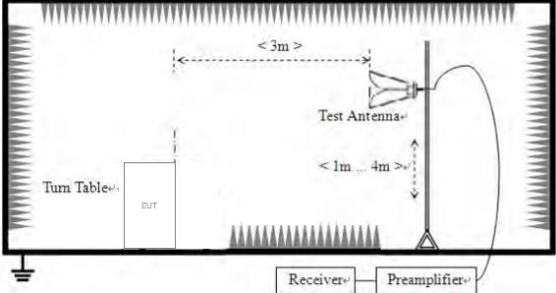
Highest channel



30MHz~25GHz

Radiated Emission Method

| | | | | | |
|--|--|--------------|---------|----------------------|------------|
| Test Requirement: | 47CRF part 15.247(d),47CRF Part 15.209 and 15.205 | | | | |
| Test Method: | ANSI C63.10: 2013 | | | | |
| Test Frequency Range: | 9kHz to 25GHz | | | | |
| Test site: | Measurement Distance: 3m | | | | |
| Receiver setup: | Frequency | Detector | RBW | VBW | Value |
| | 9KHz-150KHz | Quasi-peak | 200Hz | 600Hz | Quasi-peak |
| | 150KHz-30MHz | Quasi-peak | 9KHz | 30KHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 120KHz | 300KHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| Peak | | 1MHz | 10Hz | Average | |
| Limit: | Frequency | Limit (uV/m) | Value | Measurement Distance | |
| | 0.009MHz-0.490MHz | 2400/F(KHz) | QP | 300m | |
| | 0.490MHz-1.705MHz | 24000/F(KHz) | QP | 300m | |
| | 1.705MHz-30MHz | 30 | QP | 30m | |
| | 30MHz-88MHz | 100 | QP | 3m | |
| | 88MHz-216MHz | 150 | QP | | |
| | 216MHz-960MHz | 200 | QP | | |
| | 960MHz-1GHz | 500 | QP | | |
| | Above 1GHz | 500 | Average | | |
| | | 5000 | Peak | | |
| Test setup: | For radiated emissions from 9kHz to 30MHz | | | | |
| |  | | | | |
| | For radiated emissions from 30MHz to 1GHz | | | | |
|  | | | | | |
| For radiated emissions above 1GHz | | | | | |

| | |
|--------------------------|--|
| |  |
| <p>Test Procedure:</p> | <ol style="list-style-type: none"> 1. The EUT was placed on the top of a rotating table (0.8m for below 1G and 1.5m for above 1G) above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. 2. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. 4. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. 5. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. 6. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. |
| <p>Test Instruments:</p> | <p>Refer to section 3.0 for details</p> |
| <p>Test mode:</p> | <p>Refer to section 2.2 for details</p> |
| <p>Test results:</p> | <p>Pass</p> |

Remarks:

1. The report only shows the worst mode.
2. Pre-scan all kind of the place mode (X-axis, Y-axis, Z-axis), and found the Y-axis which it is worse case.



Measurement data:

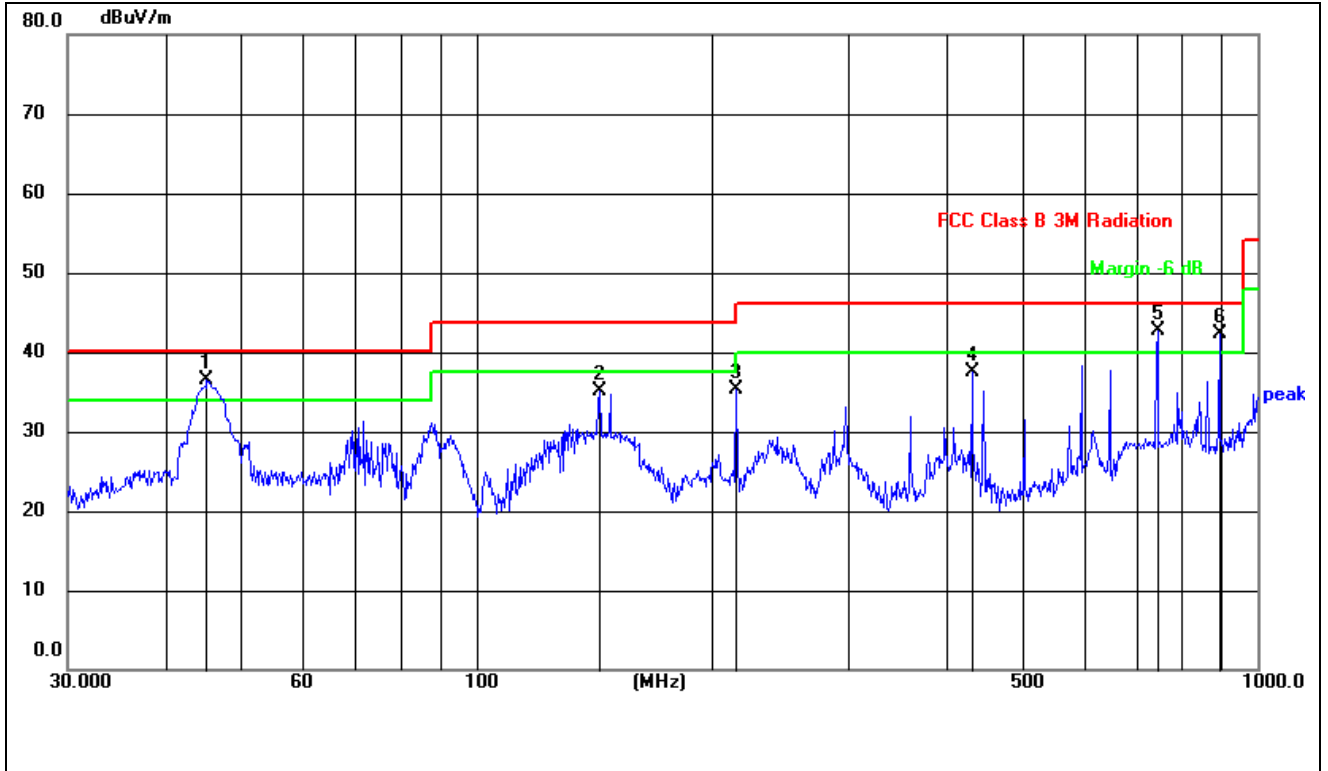
■ **9kHz~30MHz**

The emission from 9 kHz to 30MHz was pre-tested and found the result was 20dB lower than the limit, and according to 15.31(o), the test result no need to reported.

■ **Below 1GHz**

All mode has been tested, the report only shows the worst mode of 802.11b (2412MHz).

| | | | |
|--------------------|----------|---------------|----------------------|
| Test polarization: | Vertical | Test voltage: | DC11.1V From Battery |
| Temp.: | 24.1°C | Humid.: | 63%RH |



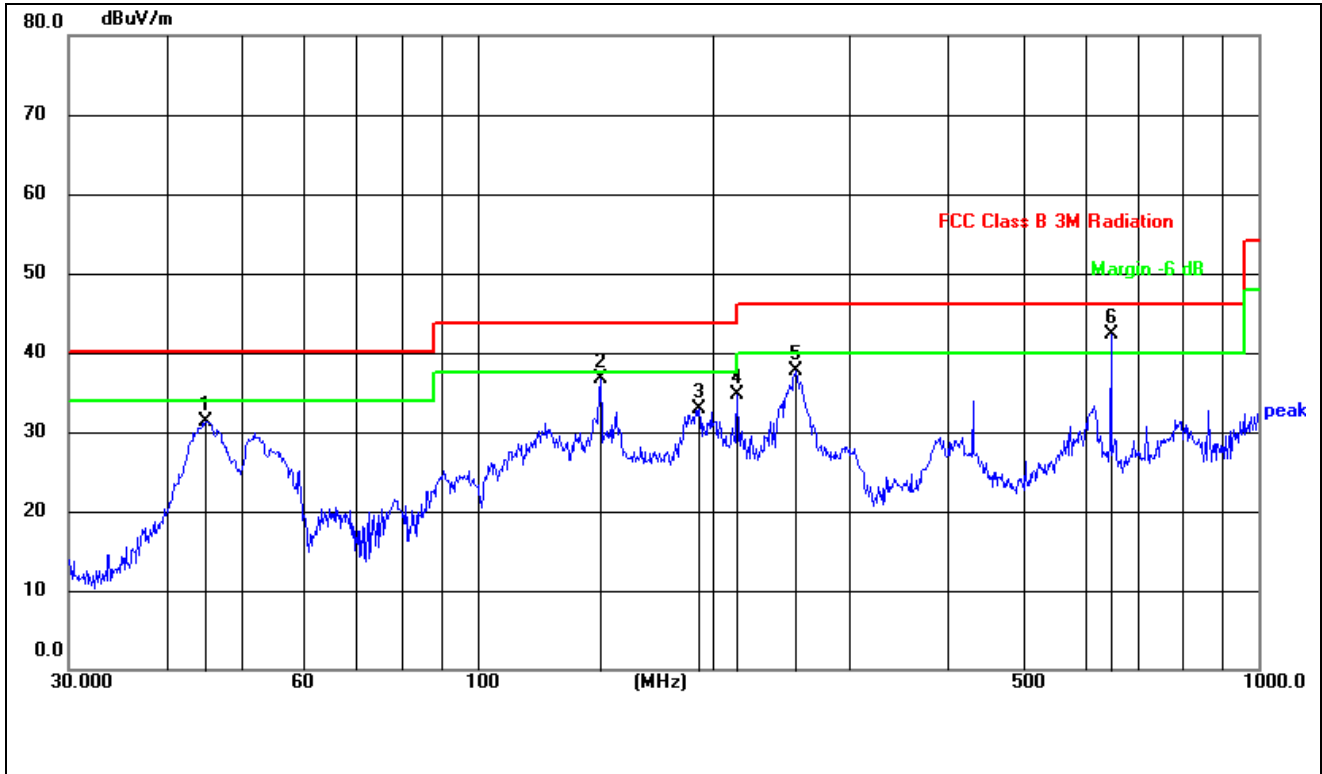
| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 45.2165 | 57.76 | -21.21 | 36.55 | 40.00 | -3.45 | QP |
| 2 | 143.8293 | 56.24 | -21.20 | 35.04 | 43.50 | -8.46 | QP |
| 3 | 215.2676 | 58.82 | -23.52 | 35.30 | 43.50 | -8.20 | QP |
| 4 | 431.0314 | 53.52 | -16.09 | 37.43 | 46.00 | -8.57 | QP |
| 5 | 744.8659 | 50.85 | -8.21 | 42.64 | 46.00 | -3.36 | QP |
| 6 | 893.8564 | 47.85 | -5.54 | 42.31 | 46.00 | -3.69 | QP |

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor – Preamplifier Factor

| | | | |
|--------------------|------------|---------------|----------------------|
| Test polarization: | Horizontal | Test voltage: | DC11.1V From Battery |
| Temp.: | 21.4°C | Humid.: | 63%RH |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|
| 1 | 44.9004 | 52.58 | -21.18 | 31.40 | 40.00 | -8.60 | QP |
| 2 | 143.8294 | 57.85 | -21.20 | 36.65 | 43.50 | -6.85 | QP |
| 3 | 192.4183 | 56.06 | -23.17 | 32.89 | 43.50 | -10.61 | QP |
| 4 | 215.2677 | 58.23 | -23.52 | 34.71 | 43.50 | -8.79 | QP |
| 5 | 255.6230 | 59.93 | -22.15 | 37.78 | 46.00 | -8.22 | QP |
| 6 | 647.3855 | 52.63 | -10.38 | 42.25 | 46.00 | -3.75 | QP |

Remarks:

Level = Receiver Reading + Factor

Factor = Antenna Factor + Cable Factor - Preamplifier Factor



■ 1GHz-25GHz

| | | | |
|---------------|----------|---------|-------|
| Temp.: | 21.4°C | Humid.: | 63%RH |
| Test voltage: | 11.1V DC | | |

| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 55.29 | -7.66 | 47.63 | 74.00 | -26.37 | Vertical |
| 7236.00 | 49.87 | -1.62 | 48.25 | 74.00 | -25.75 | Vertical |
| 9648.00 | 48.18 | 1.27 | 49.45 | 74.00 | -24.55 | Vertical |
| 12060.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 74.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4824.00 | 55.63 | -7.66 | 47.97 | 74.00 | -26.03 | Horizontal |
| 7236.00 | 50.97 | -1.62 | 49.35 | 74.00 | -24.65 | Horizontal |
| 9648.00 | 48.70 | 1.27 | 49.97 | 74.00 | -24.03 | Horizontal |
| 12060.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 43.98 | -7.66 | 36.32 | 54.00 | -17.68 | Vertical |
| 7236.00 | 38.61 | -1.62 | 36.99 | 54.00 | -17.01 | Vertical |
| 9648.00 | 37.87 | 1.27 | 39.14 | 54.00 | -14.86 | Vertical |
| 12060.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 54.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4824.00 | 44.80 | -7.66 | 37.14 | 54.00 | -16.86 | Horizontal |
| 7236.00 | 40.36 | -1.62 | 38.74 | 54.00 | -15.26 | Horizontal |
| 9648.00 | 38.13 | 1.27 | 39.40 | 54.00 | -14.60 | Horizontal |
| 12060.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. Level = Read level + Factor
2. Factor = Antenna Factor + Cable Loss – Pre-amplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11b | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 55.48 | -7.58 | 47.90 | 74.00 | -26.10 | Vertical |
| 7311.00 | 48.42 | -1.40 | 47.02 | 74.00 | -26.98 | Vertical |
| 9748.00 | 48.71 | 1.20 | 49.91 | 74.00 | -24.09 | Vertical |
| 12185.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4874.00 | 55.37 | -7.58 | 47.79 | 74.00 | -26.21 | Horizontal |
| 7311.00 | 50.11 | -1.40 | 48.71 | 74.00 | -25.29 | Horizontal |
| 9748.00 | 48.89 | 1.20 | 50.09 | 74.00 | -23.91 | Horizontal |
| 12185.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 44.52 | -7.58 | 36.94 | 54.00 | -17.06 | Vertical |
| 7311.00 | 38.99 | -1.40 | 37.59 | 54.00 | -16.41 | Vertical |
| 9748.00 | 37.29 | 1.20 | 38.49 | 54.00 | -15.51 | Vertical |
| 12185.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4874.00 | 45.21 | -7.58 | 37.63 | 54.00 | -16.37 | Horizontal |
| 7311.00 | 40.82 | -1.40 | 39.42 | 54.00 | -14.58 | Horizontal |
| 9748.00 | 37.82 | 1.20 | 39.02 | 54.00 | -14.98 | Horizontal |
| 12185.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”, means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11b | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 55.74 | -7.49 | 48.25 | 74.00 | -25.75 | Vertical |
| 7386.00 | 48.75 | -1.18 | 47.57 | 74.00 | -26.43 | Vertical |
| 9848.00 | 48.61 | 1.12 | 49.73 | 74.00 | -24.27 | Vertical |
| 12310.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4924.00 | 55.33 | -7.49 | 47.84 | 74.00 | -26.16 | Horizontal |
| 7386.00 | 49.30 | -1.18 | 48.12 | 74.00 | -25.88 | Horizontal |
| 9848.00 | 48.33 | 1.12 | 49.45 | 74.00 | -24.55 | Horizontal |
| 12310.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 44.54 | -7.49 | 37.05 | 54.00 | -16.95 | Vertical |
| 7386.00 | 38.78 | -1.18 | 37.60 | 54.00 | -16.40 | Vertical |
| 9848.00 | 38.12 | 1.12 | 39.24 | 54.00 | -14.76 | Vertical |
| 12310.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4924.00 | 44.85 | -7.49 | 37.36 | 54.00 | -16.64 | Horizontal |
| 7386.00 | 40.26 | -1.18 | 39.08 | 54.00 | -14.92 | Horizontal |
| 9848.00 | 37.56 | 1.12 | 38.68 | 54.00 | -15.32 | Horizontal |
| 12310.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | lowest |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 55.83 | -7.66 | 48.17 | 74.00 | -25.83 | Vertical |
| 7236.00 | 50.38 | -1.62 | 48.76 | 74.00 | -25.24 | Vertical |
| 9648.00 | 47.85 | 1.27 | 49.12 | 74.00 | -24.88 | Vertical |
| 12060.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 74.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4824.00 | 54.74 | -7.66 | 47.08 | 74.00 | -26.92 | Horizontal |
| 7236.00 | 48.81 | -1.62 | 47.19 | 74.00 | -26.81 | Horizontal |
| 9648.00 | 47.21 | 1.27 | 48.48 | 74.00 | -25.52 | Horizontal |
| 12060.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 44.71 | -7.66 | 37.05 | 54.00 | -16.95 | Vertical |
| 7236.00 | 38.42 | -1.62 | 36.80 | 54.00 | -17.20 | Vertical |
| 9648.00 | 37.15 | 1.27 | 38.42 | 54.00 | -15.58 | Vertical |
| 12060.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 54.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4824.00 | 44.80 | -7.66 | 37.14 | 54.00 | -16.86 | Horizontal |
| 7236.00 | 40.36 | -1.62 | 38.74 | 54.00 | -15.26 | Horizontal |
| 9648.00 | 38.13 | 1.27 | 39.40 | 54.00 | -14.60 | Horizontal |
| 12060.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. Level = Read level + Factor
2. Factor = Antenna Factor + Cable Loss – Pre-amplifier Factor
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------|---------------|--------|
| Test mode: | 802.11g | Test channel: | Middle |
|------------|---------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 55.63 | -7.58 | 48.05 | 74.00 | -25.95 | Vertical |
| 7311.00 | 50.35 | -1.40 | 48.95 | 74.00 | -25.05 | Vertical |
| 9748.00 | 47.44 | 1.20 | 48.64 | 74.00 | -25.36 | Vertical |
| 12185.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4874.00 | 55.16 | -7.58 | 47.58 | 74.00 | -26.42 | Horizontal |
| 7311.00 | 50.07 | -1.40 | 48.67 | 74.00 | -25.33 | Horizontal |
| 9748.00 | 47.89 | 1.20 | 49.09 | 74.00 | -24.91 | Horizontal |
| 12185.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 44.10 | -7.58 | 36.52 | 54.00 | -17.48 | Vertical |
| 7311.00 | 39.74 | -1.40 | 38.34 | 54.00 | -15.66 | Vertical |
| 9748.00 | 37.87 | 1.20 | 39.07 | 54.00 | -14.93 | Vertical |
| 12185.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4874.00 | 44.31 | -7.58 | 36.73 | 54.00 | -17.27 | Horizontal |
| 7311.00 | 39.18 | -1.40 | 37.78 | 54.00 | -16.22 | Horizontal |
| 9748.00 | 36.69 | 1.20 | 37.89 | 54.00 | -16.11 | Horizontal |
| 12185.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. "*", means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|---------|---------------|---------|
| Test mode: | 802.11g | Test channel: | Highest |
|------------|---------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 55.67 | -7.49 | 48.18 | 74.00 | -25.82 | Vertical |
| 7386.00 | 49.97 | -1.18 | 48.79 | 74.00 | -25.21 | Vertical |
| 9848.00 | 47.94 | 1.12 | 49.06 | 74.00 | -24.94 | Vertical |
| 12310.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4924.00 | 56.01 | -7.49 | 48.52 | 74.00 | -25.48 | Horizontal |
| 7386.00 | 48.84 | -1.18 | 47.66 | 74.00 | -26.34 | Horizontal |
| 9848.00 | 47.98 | 1.12 | 49.10 | 74.00 | -24.90 | Horizontal |
| 12310.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 44.20 | -7.49 | 36.71 | 54.00 | -17.29 | Vertical |
| 7386.00 | 38.49 | -1.18 | 37.31 | 54.00 | -16.69 | Vertical |
| 9848.00 | 37.91 | 1.12 | 39.03 | 54.00 | -14.97 | Vertical |
| 12310.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4924.00 | 44.54 | -7.49 | 37.05 | 54.00 | -16.95 | Horizontal |
| 7386.00 | 39.57 | -1.18 | 38.39 | 54.00 | -15.61 | Horizontal |
| 9848.00 | 36.95 | 1.12 | 38.07 | 54.00 | -15.93 | Horizontal |
| 12310.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|-----------|---------------|--------|
| Test mode: | 802.11n20 | Test channel: | Lowest |
|------------|-----------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 54.84 | -7.66 | 47.18 | 74.00 | -26.82 | Vertical |
| 7236.00 | 50.15 | -1.62 | 48.53 | 74.00 | -25.47 | Vertical |
| 9648.00 | 47.84 | 1.27 | 49.11 | 74.00 | -24.89 | Vertical |
| 12060.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 74.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4824.00 | 55.34 | -7.66 | 47.68 | 74.00 | -26.32 | Horizontal |
| 7236.00 | 50.77 | -1.62 | 49.15 | 74.00 | -24.85 | Horizontal |
| 9648.00 | 48.07 | 1.27 | 49.34 | 74.00 | -24.66 | Horizontal |
| 12060.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4824.00 | 44.70 | -7.66 | 37.04 | 54.00 | -16.96 | Vertical |
| 7236.00 | 39.59 | -1.62 | 37.97 | 54.00 | -16.03 | Vertical |
| 9648.00 | 37.75 | 1.27 | 39.02 | 54.00 | -14.98 | Vertical |
| 12060.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 54.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4824.00 | 45.13 | -7.66 | 37.47 | 54.00 | -16.53 | Horizontal |
| 7236.00 | 40.10 | -1.62 | 38.48 | 54.00 | -15.52 | Horizontal |
| 9648.00 | 37.90 | 1.27 | 39.17 | 54.00 | -14.83 | Horizontal |
| 12060.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. "**", means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|-----------|---------------|--------|
| Test mode: | 802.11n20 | Test channel: | Middle |
|------------|-----------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 55.52 | -7.58 | 47.94 | 74.00 | -26.06 | Vertical |
| 7311.00 | 49.50 | -1.40 | 48.10 | 74.00 | -25.90 | Vertical |
| 9748.00 | 47.44 | 1.20 | 48.64 | 74.00 | -25.36 | Vertical |
| 12185.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4874.00 | 56.18 | -7.58 | 48.60 | 74.00 | -25.40 | Horizontal |
| 7311.00 | 49.34 | -1.40 | 47.94 | 74.00 | -26.06 | Horizontal |
| 9748.00 | 48.20 | 1.20 | 49.40 | 74.00 | -24.60 | Horizontal |
| 12185.00 | | -- | -- | 74.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 45.20 | -7.58 | 37.62 | 54.00 | -16.38 | Vertical |
| 7311.00 | 38.47 | -1.40 | 37.07 | 54.00 | -16.93 | Vertical |
| 9748.00 | 37.66 | 1.20 | 38.86 | 54.00 | -15.14 | Vertical |
| 12185.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4874.00 | 44.47 | -7.58 | 36.89 | 54.00 | -17.11 | Horizontal |
| 7311.00 | 39.93 | -1.40 | 38.53 | 54.00 | -15.47 | Horizontal |
| 9748.00 | 36.99 | 1.20 | 38.19 | 54.00 | -15.81 | Horizontal |
| 12185.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. *Level = Read level + Factor*
2. *Factor = Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”, means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



| | | | |
|------------|-----------|---------------|---------|
| Test mode: | 802.11n20 | Test channel: | Highest |
|------------|-----------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 55.45 | -7.49 | 47.96 | 74.00 | -26.04 | Vertical |
| 7386.00 | 49.25 | -1.18 | 48.07 | 74.00 | -25.93 | Vertical |
| 9848.00 | 48.50 | 1.12 | 49.62 | 74.00 | -24.38 | Vertical |
| 12310.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4924.00 | 54.92 | -7.49 | 47.43 | 74.00 | -26.57 | Horizontal |
| 7386.00 | 48.96 | -1.18 | 47.78 | 74.00 | -26.22 | Horizontal |
| 9848.00 | 47.94 | 1.12 | 49.06 | 74.00 | -24.94 | Horizontal |
| 12310.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4924.00 | 43.95 | -7.49 | 36.46 | 54.00 | -17.54 | Vertical |
| 7386.00 | 38.41 | -1.18 | 37.23 | 54.00 | -16.77 | Vertical |
| 9848.00 | 37.45 | 1.12 | 38.57 | 54.00 | -15.43 | Vertical |
| 12310.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4924.00 | 44.37 | -7.49 | 36.88 | 54.00 | -17.12 | Horizontal |
| 7386.00 | 38.59 | -1.18 | 37.41 | 54.00 | -16.59 | Horizontal |
| 9848.00 | 36.95 | 1.12 | 38.07 | 54.00 | -15.93 | Horizontal |
| 12310.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. “*”, means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|-----------|---------------|--------|
| Test mode: | 802.11n40 | Test channel: | Lowest |
|------------|-----------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 55.32 | -7.63 | 47.69 | 74.00 | -26.31 | Vertical |
| 7266.00 | 50.67 | -1.53 | 49.14 | 74.00 | -24.86 | Vertical |
| 9688.00 | 47.45 | 1.24 | 48.69 | 74.00 | -25.31 | Vertical |
| 12060.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 74.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4844.00 | 56.48 | -7.63 | 48.85 | 74.00 | -25.15 | Horizontal |
| 7266.00 | 49.48 | -1.53 | 47.95 | 74.00 | -26.05 | Horizontal |
| 9688.00 | 47.66 | 1.24 | 48.90 | 74.00 | -25.10 | Horizontal |
| 12060.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4844.00 | 45.05 | -7.63 | 37.42 | 54.00 | -16.58 | Vertical |
| 7266.00 | 38.54 | -1.53 | 37.01 | 54.00 | -16.99 | Vertical |
| 9688.00 | 37.10 | 1.24 | 38.34 | 54.00 | -15.66 | Vertical |
| 12060.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14472.00 | * | -- | -- | 54.00 | -- | Vertical |
| 16884.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4844.00 | 44.68 | -7.63 | 37.05 | 54.00 | -16.95 | Horizontal |
| 7266.00 | 40.00 | -1.53 | 38.47 | 54.00 | -15.53 | Horizontal |
| 9688.00 | 36.83 | 1.24 | 38.07 | 54.00 | -15.93 | Horizontal |
| 12060.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14472.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 16884.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. "**", means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|-----------|---------------|--------|
| Test mode: | 802.11n40 | Test channel: | Middle |
|------------|-----------|---------------|--------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 55.57 | -7.58 | 47.99 | 74.00 | -26.01 | Vertical |
| 7311.00 | 50.86 | -1.40 | 49.46 | 74.00 | -24.54 | Vertical |
| 9748.00 | 46.29 | 1.20 | 47.49 | 74.00 | -26.51 | Vertical |
| 12185.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4874.00 | 54.84 | -7.58 | 47.26 | 74.00 | -26.74 | Horizontal |
| 7311.00 | 49.30 | -1.40 | 47.90 | 74.00 | -26.10 | Horizontal |
| 9748.00 | 46.41 | 1.20 | 47.61 | 74.00 | -26.39 | Horizontal |
| 12185.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4874.00 | 44.72 | -7.58 | 37.14 | 54.00 | -16.86 | Vertical |
| 7311.00 | 39.15 | -1.40 | 37.75 | 54.00 | -16.25 | Vertical |
| 9748.00 | 36.52 | 1.20 | 37.72 | 54.00 | -16.28 | Vertical |
| 12185.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14622.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17059.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4874.00 | 45.41 | -7.58 | 37.83 | 54.00 | -16.17 | Horizontal |
| 7311.00 | 38.51 | -1.40 | 37.11 | 54.00 | -16.89 | Horizontal |
| 9748.00 | 36.63 | 1.20 | 37.83 | 54.00 | -16.17 | Horizontal |
| 12185.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14622.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17059.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. $Level = Read\ level + Factor$
2. $Factor = Antenna\ Factor + Cable\ Loss - Preamplifier\ Factor$
3. "**", means this data is the too weak instrument of signal is unable to test.
4. Emissions more than 20 dB below the limit do not need to be reported.



| | | | |
|------------|-----------|---------------|---------|
| Test mode: | 802.11n40 | Test channel: | Highest |
|------------|-----------|---------------|---------|

Peak value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 55.29 | -7.52 | 47.77 | 74.00 | -26.23 | Vertical |
| 7356.00 | 49.42 | -1.26 | 48.16 | 74.00 | -25.84 | Vertical |
| 9808.00 | 47.55 | 1.16 | 48.71 | 74.00 | -25.29 | Vertical |
| 12310.00 | * | -- | -- | 74.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 74.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 74.00 | -- | Vertical |
| 4904.00 | 54.95 | -7.52 | 47.43 | 74.00 | -26.57 | Horizontal |
| 7356.00 | 48.42 | -1.26 | 47.16 | 74.00 | -26.84 | Horizontal |
| 9808.00 | 47.22 | 1.16 | 48.38 | 74.00 | -25.62 | Horizontal |
| 12310.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 74.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 74.00 | -- | Horizontal |

Average value:

| Frequency (MHz) | Read Level (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | polarization |
|-----------------|-------------------|---------------|----------------|---------------------|-----------------|--------------|
| 4904.00 | 44.18 | -7.52 | 36.66 | 54.00 | -17.34 | Vertical |
| 7356.00 | 38.66 | -1.26 | 37.40 | 54.00 | -16.60 | Vertical |
| 9808.00 | 36.84 | 1.16 | 38.00 | 54.00 | -16.00 | Vertical |
| 12310.00 | * | -- | -- | 54.00 | -- | Vertical |
| 14772.00 | * | -- | -- | 54.00 | -- | Vertical |
| 17234.00 | * | -- | -- | 54.00 | -- | Vertical |
| 4904.00 | 44.08 | -7.52 | 36.56 | 54.00 | -17.44 | Horizontal |
| 7356.00 | 39.79 | -1.26 | 38.53 | 54.00 | -15.47 | Horizontal |
| 9808.00 | 36.24 | 1.16 | 37.40 | 54.00 | -16.60 | Horizontal |
| 12310.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 14772.00 | * | -- | -- | 54.00 | -- | Horizontal |
| 17234.00 | * | -- | -- | 54.00 | -- | Horizontal |

Remark:

1. *Level = Read level + Factor*
2. *Factor =Antenna Factor + Cable Loss – Preamplifier Factor*
3. *“*”, means this data is the too weak instrument of signal is unable to test.*
4. *Emissions more than 20 dB below the limit do not need to be reported.*



5. Test Setup Photo

Reference to the file No.: ET-25072212SP for details.

6. EUT Constructional Details

Reference to the file No.: ET-25072212EP and ET-25072212IP for details.

-----End-----