TEST REPORT

Reference No. : WTS19S09068045W003 V1

FCC ID : 2AIZN-X650B

Applicant.....: INFINIX MOBILITY LIMITED

TIARDOOK OFF IT OAKTON KOAD TOT KE, HONG

Manufacturer: SHENZHEN TECNO TECHNOLOGY CO.,LTD.

Address...... 101, Building 24, Waijing Industrial Park, Fumin Community,

Fucheng Street, Longhua District, Shenzhen City, P.R. China

Product.....: Mobile Phone

 Model(s).
 : X650B

 Brand Name.
 : Infinix

Standards..... : FCC CFR47 Part 15.247:2018

Date of Receipt sample : 2019-09-29

Date of Test 2019-09-30 to 2019-10-16

Date of Issue..... : 2019-10-30

Test Result.....: Pass

Remarks:

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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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation, the certification number is 4243.01) of USA, CNAS (China National Accreditation Service for Conformity Assessment, the registration number is L3110) of China. Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC (The Federal Communications Commission), CEC (California energy efficiency), ISED (Innovation, Science and Economic Development Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek (ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. Electro Magnetic Compatibility (EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

Test Facility:

A. Accreditations for Conformity Assessment (International)

| Country/Region | Scope Covered By | Scope | Note |
|----------------|------------------|--------------------|------|
| USA | | FCC ID \ DOC \ VOC | 1 |
| Canada | | IC ID \ VOC | 2 |
| Japan | | MIC-T \ MIC-R | _ |
| Europe | | EMCD \ RED | - |
| Taiwan | | NCC | - |
| Hong Kong | ISO/IEC 17025 | OFCA | - |
| Australia | | RCM | - |
| India | | WPC | - |
| Thailand | | NTC | - |
| Singapore | | IDA | - |

Note:

- 1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.
- 2. ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

B. TCBs and Notify Bodies Recognized Testing Laboratory.

| Recognized Testing Laboratory of | Notify body number |
|--|--------------------|
| TUV Rheinland | |
| Intertek | |
| TUV SUD | Optional. |
| SGS | |
| Phoenix Testlab GmbH | 0700 |
| Element Materials Technology Warwick Ltd | 0891 |
| Timco Engineering, Inc. | 1177 |
| Eurofins Product Service GmbH | 0681 |

3 Contents

| | | Page |
|--------|--|------|
| 1 | COVER PAGE | |
| 2 | LABORATORIES INTRODUCTION | |
| 3 | CONTENTS | |
| 4 | REVISION HISTORY | |
| 5 | GENERAL INFORMATION | |
| | 5.1 GENERAL DESCRIPTION OF E.U.T. | |
| | 5.2 DETAILS OF E.U.T. 5.3 CHANNEL LIST | |
| | 5.4 TEST MODE | |
| 6 | TEST SUMMARY | 11 |
| 7 | EQUIPMENT USED DURING TEST | |
| | 7.1 EQUIPMENTS LIST | |
| | 7.2 DESCRIPTION OF SUPPORT UNITS | |
| | 7.3 MEASUREMENT UNCERTAINTY | |
| 8 | CONDUCTED EMISSION | |
| U | 8.1 E.U.T. OPERATION | |
| | 8.2 EUT SETUP | |
| | 8.3 MEASUREMENT DESCRIPTION | |
| 0 | 8.4 CONDUCTED EMISSION TEST RESULT | |
| 9 | RADIATED EMISSIONS | |
| | 9.1 EUT OPERATION | |
| | 9.3 SPECTRUM ANALYZER SETUP | |
| | 9.4 TEST PROCEDURE | |
| | 9.5 CORRECTED AMPLITUDE & MARGIN CALCULATION | |
| 10 | CONDUCTED SPURIOUS EMISSIONS | |
| 10 | 10.1 Test Procedure | |
| | 10.2 TEST RESULT | |
| 11 | BAND EDGE MEASUREMENT | 56 |
| | 11.1 TEST PRODUCE | 56 |
| | 11.2 TEST RESULT | |
| 12 | 6 DB BANDWIDTH AND 99% BANDWIDTH MEASUREMENT | |
| | 12.1 TEST PROCEDURE: | |
| | 12.2 Test Result: | |
| 13 | MAXIMUM PEAK CONDUCTED OUTPUT POWER | |
| | 13.1 TEST PROCEDURE: 13.2 TEST RESULT: | |
| 14 | DUTY CYCLE | |
| 15 | POWER SPECTRAL DENSITY | |
| 13 | 15.1 Test Procedure: | |
| | 15.1 TEST ROCEDURE | |
| 16 | ANTENNA REQUIREMENT | 91 |
| 17 | RF EXPOSURE | |
| \/\/al | Itak Sarvicas (Shanzhan) Co. Ltd | |

| 18 | PHOTOGRAPHS OF TEST SETUP AND EUT | 93 |
|----|-----------------------------------|----|

Page 5 of 93

Reference No.: WTS19S09068045W003 V1

Reference No.: WTS19S09068045W003 V1 Page 6 of 93

4 Revision History

| Test report No. | Date of Receipt sample | Date of Test | Date of Issue | Purpose | Comment | Approved |
|---------------------------|------------------------------|---------------------------------|------------------|-----------|---------|----------|
| WTS19S09068 045W003 | 2019-09-29 | 2019-09-30 to 2019-10- 16 | 2019-10-17 | original | - | Replaced |
| WTS19S09068 045W003 V1 | 2019-09-29 | 2019-09-30 to 2019-10- 16 | 2019-10-30 | Version 1 | Updated | Valid |

Reference No.: WTS19S09068045W003 V1 Page 7 of 93

5 General Information

5.1 General Description of E.U.T.

Product: Mobile Phone

Model(s): X650B

Model Description: N/A

GSM Band(s): GSM 850/900/1800/1900MHz

GPRS/EGPRS Class: 12

WCDMA Band(s): FDD Band II/IV/V

LTE Band(s): FDD Band 2/4/5/7

2.4G-802.11b/g/n HT20/n HT40
Wi-Fi Specification: 2.4G-802.11b/g/n HT20/n HT40

5G-802.11a/ n(HT20/40)/ac(HT20/40/80)

Bluetooth Version: Bluetooth v4.0 with BLE

GPS: Support

NFC: N/A

Hardware Version: H6110_V2.2

Software Version: X650B-H6110JK-190905V224

Highest frequency

26MHz

(Exclude Radio):

Storage Location: Internal Storage

Note: N/A

5.2 Details of E.U.T.

Operation Frequency: WiFi:

802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz

BLE:2402-2480MHz

Max. RF output power: WiFi(2.4G): 16.55dBm

BLE: -4.40dBm

Type of Modulation: WiFi: CCK, OFDM

BLE:GFSK

Antenna installation: WiFi: internal permanent antenna

BLE: internal permanent antenna

Antenna Gain: WiFi(2.4G): 1.0dBi

BLE: 1.0dBi

Ratings: Battery DC 3.85V, 4900mAh

DC 5V, 2.0A, charging from adapter

(Adapter Input: 100-240V~50/60Hz 0.35A)

Reference No.: WTS19S09068045W003 V1 Page 8 of 93

Adapter: Manufacturer: Dongguan Aohai Power Technology CO.,LTD

Model No.: A8A-050200U-US1

5.3 Channel List

WIFI

| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
|----------------|--------------------|----------------|--------------------|----------------|--------------------|----------------|--------------------|
| 1 | 2412 | 2 | 2417 | 3 | 2422 | 4 | 2427 |
| 5 | 2432 | 6 | 2437 | 7 | 2442 | 8 | 2447 |
| 9 | 2452 | 10 | 2457 | 11 | 2462 | 12 | - |

BT BLE

| DIDLE | | | | | | | |
|-------------|--------------------|----------------|--------------------|-------------|--------------------|----------------|--------------------|
| Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) | Channel No. | Frequency (MHz) |
| 0 | 2402 | 1 | 2404 | 2 | 2406 | 3 | 2408 |
| 4 | 2410 | 5 | 2412 | 6 | 2414 | 7 | 2416 |
| 8 | 2418 | 9 | 2420 | 10 | 2422 | 11 | 2424 |
| 12 | 2426 | 13 | 2428 | 14 | 2430 | 15 | 2432 |
| 16 | 2434 | 17 | 2436 | 18 | 2438 | 19 | 2440 |
| 20 | 2442 | 21 | 2444 | 22 | 2446 | 23 | 2448 |
| 24 | 2450 | 25 | 2452 | 26 | 2454 | 27 | 2456 |
| 28 | 2458 | 29 | 2460 | 30 | 2462 | 31 | 2464 |
| 32 | 2466 | 33 | 2468 | 34 | 2470 | 35 | 2472 |
| 36 | 2474 | 37 | 2476 | 38 | 2478 | 39 | 2480 |

5.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

| Test Items | Mode Mode | Data Rate | Channel | TX/RX |
|--------------------------------|--------------|-----------|---------|-------|
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Maximum Peak Output Power | 802.11g | 6 Mbps | 1/6/11 | TX |
| Maximum Feak Output Fower | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Davis On a strat Davisite. | 802.11g | 6 Mbps | 1/6/11 | TX |
| Power Spectral Density | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| CdD Donadwidth | 802.11g | 6 Mbps | 1/6/11 | TX |
| 6dB Bandwidth | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Dand Edge | 802.11g | 6 Mbps | 1/6/11 | TX |
| Band Edge | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |
| | 802.11b | 1 Mbps | 1/6/11 | TX |
| Transmittor Spurious Emissions | 802.11g | 6 Mbps | 1/6/11 | TX |
| Transmitter Spurious Emissions | 802.11n HT20 | MCS0 | 1/6/11 | TX |
| | 802.11n HT40 | MCS0 | 3/6/9 | TX |

Table 2 Tests Carried Out Under FCC part 15.247

| Test Items | Mode | Data Rate | Channel | TX/RX |
|--------------------------------|--------|-----------|---------|-------|
| Maximum Peak Output Power | BT BLE | 1 Mbps | 0/19/39 | TX |
| Power Spectral Density | BT BLE | 1 Mbps | 0/19/39 | TX |
| 6dB Bandwidth | BT BLE | 1 Mbps | 0/19/39 | TX |
| Band Edge | BT BLE | 1 Mbps | 0/19/39 | TX |
| Transmitter Spurious Emissions | BT BLE | 1 Mbps | 0/19/39 | TX |

Note :Parameters set by test software during channel & power tests, the software provided by the customer was used to set the operating channels as well as the output power level. The RF output power set is the power expected by the manufacturer and is going to be fixed on the firmware of the final product .

Reference No.: WTS19S09068045W003 V1 Page 11 of 93

6 Test Summary

| Test Items | Test Requirement | Result |
|-----------------------------------|------------------|--------|
| | 15.247(d) | |
| Radiated Spurious Emissions | 15.205(a) | PASS |
| | 15.209(a) | |
| Conducted Spurious Emissions | 15.247(d) | PASS |
| Conducted Emissions | 15.207(a) | PASS |
| 6dB Bandwidth | 15.247(a)(2) | PASS |
| Maximum Peak Output Power | 15.247(b)(3),(4) | PASS |
| Power Spectral Density | 15.247(e) | PASS |
| Band Edge | 15.247(d) | PASS |
| Antenna Requirement | 15.203 | PASS |
| Maximum Permissible Exposure | 1 1307(b)(1) | PASS |
| (Exposure of Humans to RF Fields) | 1.1307(b)(1) | FA33 |

Note: All test were performed that the device transmit continue of the 100% duty cycle.

7 Equipment Used during Test

7.1 Equipments List

| Conducted Emissions Test Site 1# | | | | | | | | |
|----------------------------------|-------------------------------|----------------------------------|-----------------|---------------------|-----------------------------|-------------------------|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date | | |
| 1. | EMI Test Receiver | R&S | ESCI | 100947 | 2019-09-12 | 2020-09-11 | | |
| 2. | LISN | R&S | ENV216 | 101215 | 2019-09-12 | 2020-09-11 | | |
| 3. | Cable | Тор | TYPE16(3.5M) | - | 2019-09-12 | 2020-09-11 | | |
| Condu | cted Emissions Test | Site 2# | | | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date | | |
| 1. | EMI Test Receiver | R&S | ESCI | 101155 | 2019-09-12 | 2020-09-11 | | |
| 2. | LISN | SCHWARZBECK | NSLK 8128 | 8128-289 | 2019-09-12 | 2020-09-11 | | |
| 3. | Limiter | York | MTS-IMP-136 | 261115-001- 0024 | 2019-09-12 | 2020-09-11 | | |
| 4. | Cable | LARGE | RF300 | - | 2019-09-12 | 2020-09-11 | | |
| 3m Ser | mi-anechoic Chamber | for Radiation Emis | sions Test site | 1# | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date | | |
| 1 | Spectrum Analyzer | R&S | FSP | 100091 | 2019-04-29 | 2020-04-28 | | |
| 2 | Active Loop Antenna | Beijing Dazhi | ZN30900A | - | 2019-04-09 | 2020-04-08 | | |
| 3 | Trilog Broadband Antenna | SCHWARZBECK | VULB9163 | 336 | 2019-04-09 | 2020-04-08 | | |
| 4 | Coaxial Cable (below 1GHz) | Тор | TYPE16(13M) | - | 2019-09-12 | 2020-09-11 | | |
| 5 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9120 D | 667 | 2019-04-09 | 2020-04-08 | | |
| 6 | Broad-band Horn Antenna | SCHWARZBECK | BBHA 9170 | 335 | 2019-04-09 | 2020-04-08 | | |
| 7 | Broadband Preamplifier | COMPLIANCE DIRECTION | PAP-1G18 | 2004 | 2019-04-13 | 2020-04-12 | | |
| 8 | Coaxial Cable (above 1GHz) | Тор | 1GHz-25GHz | EW02014-7 | 2019-04-13 | 2020-04-12 | | |
| 3m Ser | mi-anechoic Chamber | for Radiation Emis | sions Test site | 2# | | | | |
| Item | Equipment | Manufacturer | Model No. | Serial No | Last Calibration Date | Calibration Due Date | | |
| 1 | Test Receiver | R&S | ESCI | 101296 | 2019-04-13 | 2020-04-12 | | |
| 2 | Trilog Broadband Antenna | SCHWARZBECK | VULB9160 | 9160-3325 | 2019-04-09 | 2020-04-08 | | |
| 3 | Amplifier | Compliance pirection systems inc | PAP-0203 | 22024 | 2019-04-13 | 2020-04-12 | | |
| 4 | Cable | HUBER+SUHNER | CBL2 | 525178 | 2019-04-13 | 2020-04-12 | | |

| RF Cor | RF Conducted Testing | | | | | | | | | |
|--------|---------------------------------|--------------|-----------|------------|-----------------------------|-------------------------|--|--|--|--|
| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Calibration Date | Calibration Due Date | | | | |
| 1. | EMC Analyzer (9k~26.5GHz) | Agilent | E7405A | MY45114943 | 2019-09-12 | 2020-09-11 | | | | |
| 2. | Spectrum Analyzer (9k-6GHz) | R&S | FSL6 | 100959 | 2019-09-12 | 2020-09-11 | | | | |
| 3. | Signal Analyzer (9k~26.5GHz) | Agilent | N9010A | MY50520207 | 2019-09-12 | 2020-09-11 | | | | |

7.2 Description of Support Units

| Equipment | Manufacturer | Model No. | Series No. |
|-----------|--------------|-----------|------------|
| 1 | 1 | 1 | / |

7.3 Measurement Uncertainty

| Parameter | Uncertainty | | | | | |
|---|---|--|--|--|--|--|
| Conducted Emission | ± 3.64 dB(AC mains 150KHz~30MHz) | | | | | |
| Radiated Spurious Emissions | ± 5.08 dB (Bilog antenna 30M~1000MHz) | | | | | |
| Radiated Spurious Emissions | ± 5.47 dB (Horn antenna 1000M~25000MHz) | | | | | |
| Radio Frequency | ± 1 x 10 ⁻⁷ Hz | | | | | |
| RF Power | ± 0.42 dB | | | | | |
| RF Power Density | ± 0.7dB | | | | | |
| Conducted Spurious Emissions | ± 2.76 dB (9kHz~26500MHz) | | | | | |
| Confidence interval: 95%. Confidence factor:k=2 | | | | | | |

7.4 Test Equipment Calibration

All the test equipments used are valid and calibrated by CEPREI Certification Body that address is No.110 Dongguan Zhuang RD. Guangzhou, P.R.China.

8 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit: Frequency (MHz) Limit (dBµV)

Quasi-peak Average

0.15 to 0. 66 to 56* 56 to 46*

| | Quasi-peak | Average |
|------------|------------|-----------|
| 0.15 to 0. | 66 to 56* | 56 to 46* |
| 0.5 to 5 | 56 | 46 |
| 5 o 30 | 60 | 50 |

8.1 E.U.T. Operation

Operating Environment:

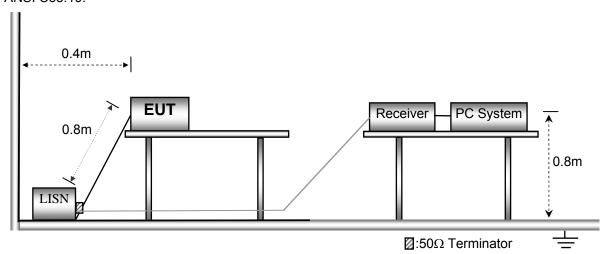
Temperature: 21.5 °C
Humidity: 51.9 % RH
Atmospheric Pressure: 101.2kPa

EUT Operation:

The test was performed in TX transmitting mode, the worst data were shown in the report.

8.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10.



8.3 Measurement Description

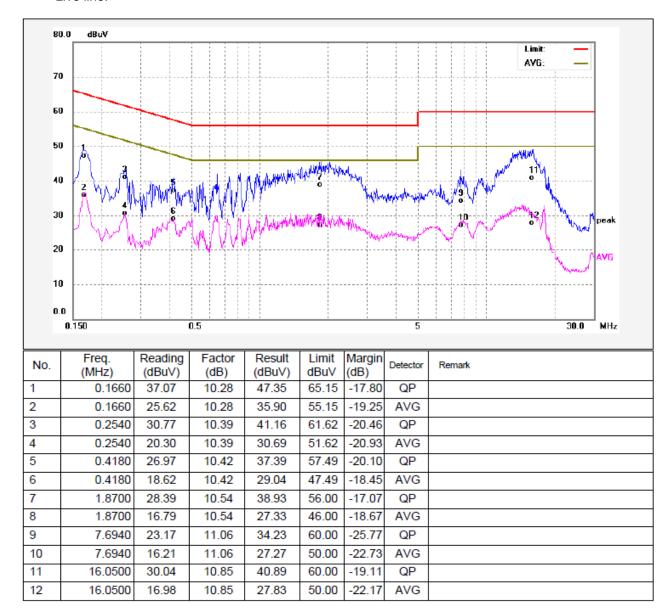
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

8.4 Conducted Emission Test Result

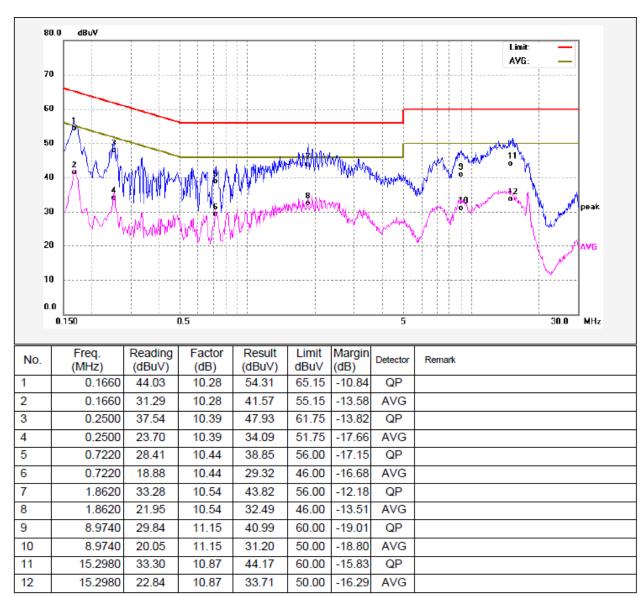
An initial pre-scan was performed on the live and neutral lines.

Worst Mode: WIFI mode (802.11b mode low channel)

Live line:

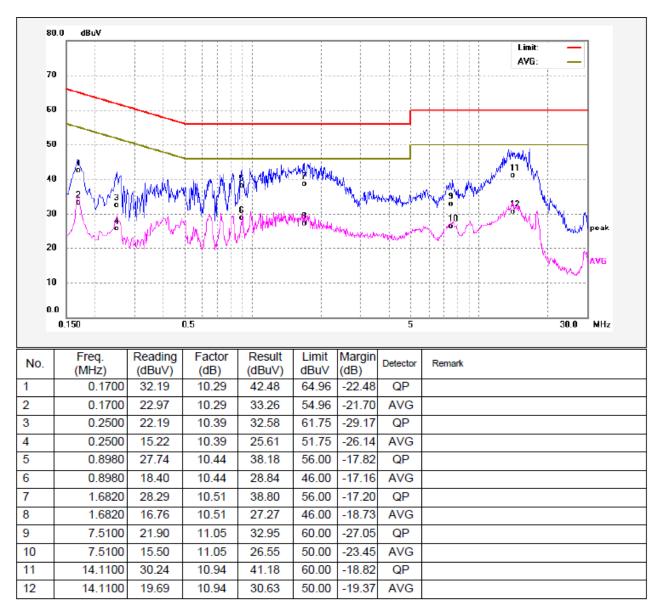


Neutral line:

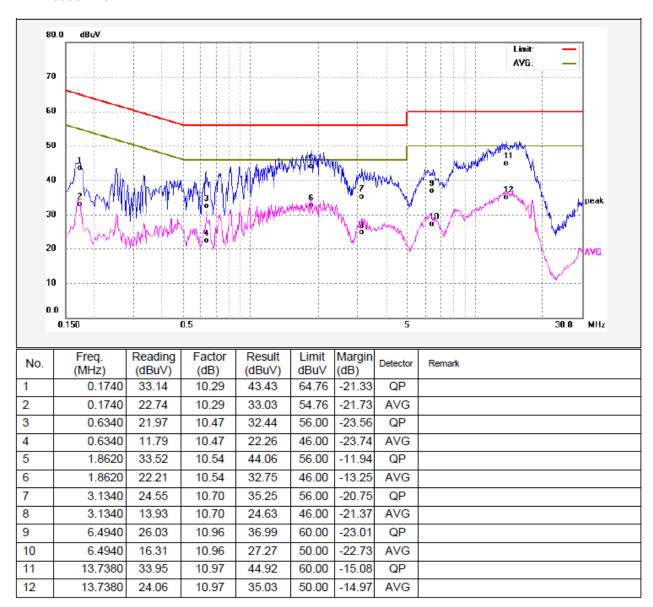


Worst Mode: BLE mode (low channel)

Live line:



Neutral line:



Reference No.: WTS19S09068045W003 V1 Page 19 of 93

9 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

Test Result: PASS
Measurement Distance: 3m

Limit:

| | Field Stre | ngth | Field Strength Limit at 3m Measurement Dist | | | |
|--------------------|--------------|--------------|---|--------------------------------------|--|--|
| Frequency (MHz) | uV/m | Distance (m) | uV/m | dBuV/m | | |
| 0.009 ~ 0.490 | 2400/F(kHz) | 300 | 10000 * 2400/F(kHz) | 20log ^{(2400/F(kHz))} + 80 | | |
| 0.490 ~ 1.705 | 24000/F(kHz) | 30 | 100 * 24000/F(kHz) | 20log ^{(24000/F(kHz))} + 40 | | |
| 1.705 ~ 30 | 30 | 30 | 100 * 30 | 20log ⁽³⁰⁾ + 40 | | |
| 30 ~ 88 | 100 | 3 | 100 | 20log ⁽¹⁰⁰⁾ | | |
| 88 ~ 216 | 150 | 3 | 150 | 20log ⁽¹⁵⁰⁾ | | |
| 216 ~ 960 | 200 | 3 | 200 | 20log ⁽²⁰⁰⁾ | | |
| Above 960 | 500 | 3 | 500 | 20log ⁽⁵⁰⁰⁾ | | |

9.1 EUT Operation

Operating Environment:

Temperature: 23.5 °C
Humidity: 52.1 % RH
Atmospheric Pressure: 101.2kPa

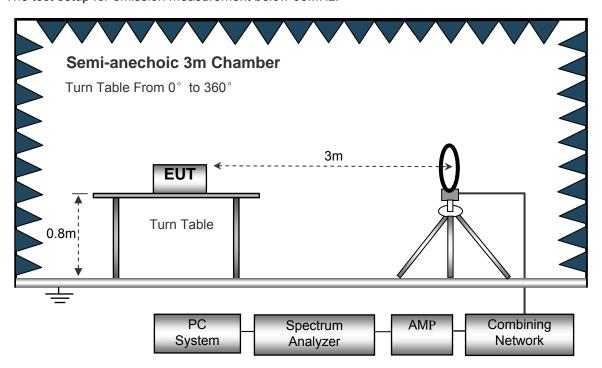
EUT Operation:

The test was performed in TX transmitting mode, the test data were shown in the report.

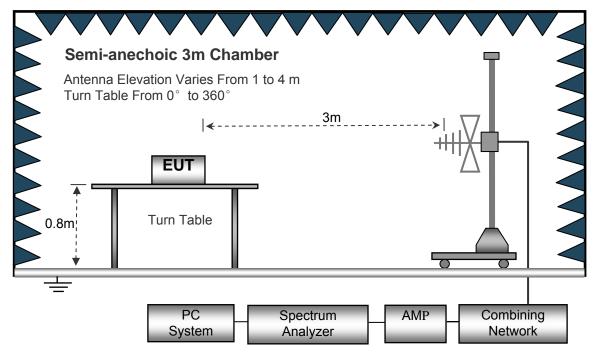
9.2 Test Setup

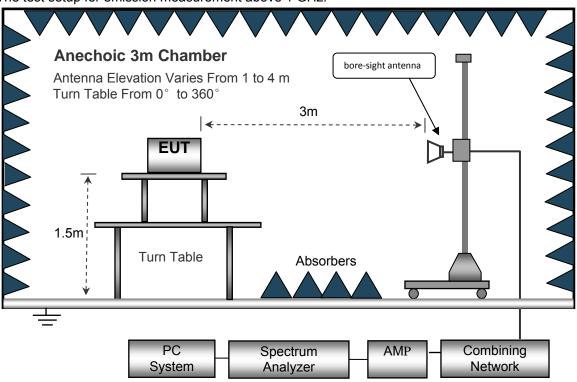
The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10.

The test setup for emission measurement below 30MHz.



The test setup for emission measurement from 30 MHz to 1 GHz.





The test setup for emission measurement above 1 GHz.

9.3 Spectrum Analyzer Setup

| | • | |
|-------------|----------------------|--------|
| Below 30MHz | <u>z</u> | |
| | Sweep Speed | Auto |
| | IF Bandwidth | 10kHz |
| | Video Bandwidth | 10kHz |
| | Resolution Bandwidth | 10kHz |
| 30MHz ~ 1GH | Hz | |
| | Sweep Speed | Auto |
| | Detector | PK |
| | Resolution Bandwidth | 100kHz |
| | Video Bandwidth | 300kHz |
| Above 1GHz | | |
| | Sweep Speed | Auto |
| | Detector | PK |
| | Resolution Bandwidth | 1MHz |
| | Video Bandwidth | 3MHz |
| | Detector | Ave. |
| | Resolution Bandwidth | 1MHz |
| | Video Bandwidth | 10Hz |
| | | |

Reference No.: WTS19S09068045W003 V1 Page 22 of 93

9.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.

2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.

- 3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
- 4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 6. Repeat above procedures until the measurements for all frequencies are complete.
- 7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
- 8. A 2.4GHz high -pass filter is used druing radiated emissions above 1GHz measurement.

9.5 Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain from the Amplitude reading. The basic equation is as follows:

Corr. Ampl. = Indicated Reading + Antenna Factor + Cable Factor - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -7dB means the emission is 7dB below the maximum limit for Class B. The equation for margin calculation is as follows:

Margin = Corr. Ampl. – Limit

9.6 Summary of Test Results

Wifi:

Test Frequency: 9KHz~30MHz

Remark: only the worst data (802.11b/g/n Low channel mode) were recorded.

| Frequency | Measurement results dBµV @3m | Detector PK/QP | Correct factor dB/m | Extrapolatio n factor dB | Measurement results (calculated) dBµV/m @30m | Limits dBµV/m @30m | Margin dB |
|-----------|------------------------------------|-------------------|---------------------------|--------------------------------|--|--------------------------|--------------|
| (MHz) | Measurement results | Detector | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits | Margin |
| | | | 802. | 11b | | | |
| 6.021 | 25.18 | QP | 21.84 | 40.00 | 7.02 | 29.54 | -22.52 |
| 15.730 | 24.63 | QP | 21.35 | 40.00 | 5.98 | 29.54 | -23.56 |
| 25.680 | 25.10 | QP | 20.67 | 40.00 | 5.77 | 29.54 | -23.77 |
| | | | 802. | 11g | | | |
| 6.021 | 25.48 | QP | 21.84 | 40.00 | 7.32 | 29.54 | -22.22 |
| 15.730 | 25.17 | QP | 21.35 | 40.00 | 6.52 | 29.54 | -23.02 |
| 25.680 | 25.02 | QP | 20.67 | 40.00 | 5.69 | 29.54 | -23.85 |
| | | | 802.11n | (HT20) | , | | |
| 6.021 | 25.33 | QP | 21.84 | 40.00 | 7.17 | 29.54 | -22.37 |
| 15.730 | 24.87 | QP | 21.35 | 40.00 | 6.22 | 29.54 | -23.32 |
| 25.680 | 25.19 | QP | 20.67 | 40.00 | 5.86 | 29.54 | -23.68 |
| | | | 802.11n | (HT40) | , | | |
| 6.021 | 25.09 | QP | 21.84 | 40.00 | 6.93 | 29.54 | -22.61 |
| 15.730 | 25.41 | QP | 21.35 | 40.00 | 6.76 | 29.54 | -22.78 |
| 25.680 | 24.86 | QP | 20.67 | 40.00 | 5.53 | 29.54 | -24.01 |

Test Frequency : 30MHz ~ 18GHz

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/2 | | |
|--------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|-------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11b: Low Channel 2412MHz | | | | | | | | | | |
| 223.45 | 40.55 | QP | 220 | 1.3 | Н | -11.62 | 28.93 | 46.00 | -17.07 | |
| 223.45 | 35.32 | QP | 171 | 1.6 | V | -11.62 | 23.70 | 46.00 | -22.30 | |
| 4824.00 | 50.62 | PK | 204 | 1.7 | V | -1.06 | 49.56 | 74.00 | -24.44 | |
| 4824.00 | 45.96 | Ave | 204 | 1.7 | V | -1.06 | 44.90 | 54.00 | -9.10 | |
| 7236.00 | 43.27 | PK | 252 | 1.2 | Н | 1.33 | 44.60 | 74.00 | -29.40 | |
| 7236.00 | 42.32 | Ave | 252 | 1.2 | Н | 1.33 | 43.65 | 54.00 | -10.35 | |
| 2310.50 | 46.38 | PK | 61 | 1.4 | V | -13.19 | 33.19 | 74.00 | -40.81 | |
| 2310.50 | 37.17 | Ave | 61 | 1.4 | V | -13.19 | 23.98 | 54.00 | -30.02 | |
| 2351.66 | 42.96 | PK | 249 | 1.0 | Н | -13.14 | 29.82 | 74.00 | -44.18 | |
| 2351.66 | 37.93 | Ave | 249 | 1.0 | Н | -13.14 | 24.79 | 54.00 | -29.21 | |
| 2485.74 | 42.99 | PK | 65 | 1.3 | V | -13.08 | 29.91 | 74.00 | -44.09 | |
| 2485.74 | 36.69 | Ave | 65 | 1.3 | V | -13.08 | 23.61 | 54.00 | -30.39 | |

| F | Receiver | Detector | Turn table | RX An | tenna | Corrected | Corrected | FCC F 15.247/2 | | |
|-----------------------------|----------|-------------|---------------|--------|-------|-----------|------------------------|-------------------|--------|--|
| Frequency | Reading | Reading | Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11b: Middle Channel 2437MHz | | | | | | | | | | |
| 223.45 | 40.65 | QP | 240 | 1.6 | Н | -11.62 | 29.03 | 46.00 | -16.97 | |
| 223.45 | 34.95 | QP | 279 | 2.0 | V | -11.62 | 23.33 | 46.00 | -22.67 | |
| 4874.00 | 49.99 | PK | 111 | 1.4 | V | -0.62 | 49.37 | 74.00 | -24.63 | |
| 4874.00 | 44.62 | Ave | 111 | 1.4 | V | -0.62 | 44.00 | 54.00 | -10.00 | |
| 7311.00 | 43.03 | PK | 231 | 1.9 | Н | 2.21 | 45.24 | 74.00 | -28.76 | |
| 7311.00 | 41.46 | Ave | 231 | 1.9 | Н | 2.21 | 43.67 | 54.00 | -10.33 | |
| 2325.66 | 46.41 | PK | 230 | 1.5 | V | -13.19 | 33.22 | 74.00 | -40.78 | |
| 2325.66 | 37.71 | Ave | 230 | 1.5 | V | -13.19 | 24.52 | 54.00 | -29.48 | |
| 2374.46 | 44.68 | PK | 121 | 1.8 | Н | -13.14 | 31.54 | 74.00 | -42.46 | |
| 2374.46 | 38.30 | Ave | 121 | 1.8 | Н | -13.14 | 25.16 | 54.00 | -28.84 | |
| 2498.94 | 42.69 | PK | 179 | 1.4 | V | -13.08 | 29.61 | 74.00 | -44.39 | |
| 2498.94 | 36.19 | Ave | 179 | 1.4 | V | -13.08 | 23.11 | 54.00 | -30.89 | |

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Corrected | FCC Part 15.247/209/205 | | |
|---------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11b: High Channel 2462MHz | | | | | | | | | | |
| 223.45 | 39.33 | QP | 235 | 1.8 | Н | -11.62 | 27.71 | 46.00 | -18.29 | |
| 223.45 | 34.21 | QP | 63 | 1.5 | V | -11.62 | 22.59 | 46.00 | -23.41 | |
| 4924.00 | 50.76 | PK | 107 | 1.8 | V | -0.24 | 50.52 | 74.00 | -23.48 | |
| 4924.00 | 45.02 | Ave | 107 | 1.8 | V | -0.24 | 44.78 | 54.00 | -9.22 | |
| 7386.00 | 43.60 | PK | 4 | 1.2 | Н | 2.84 | 46.44 | 74.00 | -27.56 | |
| 7386.00 | 41.93 | Ave | 4 | 1.2 | Н | 2.84 | 44.77 | 54.00 | -9.23 | |
| 2319.89 | 46.85 | PK | 38 | 1.8 | V | -13.19 | 33.66 | 74.00 | -40.34 | |
| 2319.89 | 39.25 | Ave | 38 | 1.8 | V | -13.19 | 26.06 | 54.00 | -27.94 | |
| 2375.38 | 42.84 | PK | 193 | 1.6 | Н | -13.14 | 29.70 | 74.00 | -44.30 | |
| 2375.38 | 36.91 | Ave | 193 | 1.6 | Н | -13.14 | 23.77 | 54.00 | -30.23 | |
| 2499.07 | 44.95 | PK | 221 | 1.9 | V | -13.08 | 31.87 | 74.00 | -42.13 | |
| 2499.07 | 37.06 | Ave | 221 | 1.9 | V | -13.08 | 23.98 | 54.00 | -30.02 | |

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Corrected | FCC F 15.247/20 | | |
|--------------------------|----------|-------------|----------------|--------|-------|-----------|-----------|--------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11g: Low Channel 2412MHz | | | | | | | | | | |
| 223.45 | 41.23 | QP | 206 | 1.4 | Н | -11.62 | 29.61 | 46.00 | -16.39 | |
| 223.45 | 36.94 | QP | 111 | 1.4 | V | -11.62 | 25.32 | 46.00 | -20.68 | |
| 4824.00 | 50.29 | PK | 62 | 1.3 | V | -1.06 | 49.23 | 74.00 | -24.77 | |
| 4824.00 | 43.49 | Ave | 62 | 1.3 | V | -1.06 | 42.43 | 54.00 | -11.57 | |
| 7236.00 | 38.68 | PK | 208 | 1.7 | Н | 1.33 | 40.01 | 74.00 | -33.99 | |
| 7236.00 | 38.23 | Ave | 208 | 1.7 | Н | 1.33 | 39.56 | 54.00 | -14.44 | |
| 2324.08 | 45.35 | PK | 2 | 1.9 | V | -13.19 | 32.16 | 74.00 | -41.84 | |
| 2324.08 | 38.40 | Ave | 2 | 1.9 | V | -13.19 | 25.21 | 54.00 | -28.79 | |
| 2362.38 | 43.53 | PK | 232 | 1.5 | Н | -13.14 | 30.39 | 74.00 | -43.61 | |
| 2362.38 | 37.64 | Ave | 232 | 1.5 | Н | -13.14 | 24.50 | 54.00 | -29.50 | |
| 2491.62 | 44.00 | PK | 83 | 1.8 | V | -13.08 | 30.92 | 74.00 | -43.08 | |
| 2491.62 | 36.64 | Ave | 83 | 1.8 | V | -13.08 | 23.56 | 54.00 | -30.44 | |

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Corrected | FCC Part 15.247/209/205 | | |
|-----------------------------|----------|-------------|----------------|--------|-------|-----------|-----------|----------------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11g: Middle Channel 2437MHz | | | | | | | | | | |
| 223.45 | 41.92 | QP | 119 | 1.0 | Н | -11.62 | 30.30 | 46.00 | -15.70 | |
| 223.45 | 37.30 | QP | 304 | 1.4 | V | -11.62 | 25.68 | 46.00 | -20.32 | |
| 4874.00 | 50.47 | PK | 43 | 1.2 | V | -0.62 | 49.85 | 74.00 | -24.15 | |
| 4874.00 | 44.00 | Ave | 43 | 1.2 | V | -0.62 | 43.38 | 54.00 | -10.62 | |
| 7311.00 | 39.70 | PK | 112 | 1.6 | Н | 2.21 | 41.91 | 74.00 | -32.09 | |
| 7311.00 | 38.16 | Ave | 112 | 1.6 | Н | 2.21 | 40.37 | 54.00 | -13.63 | |
| 2344.92 | 46.67 | PK | 235 | 1.1 | V | -13.19 | 33.48 | 74.00 | -40.52 | |
| 2344.92 | 38.60 | Ave | 235 | 1.1 | V | -13.19 | 25.41 | 54.00 | -28.59 | |
| 2370.54 | 42.70 | PK | 70 | 1.7 | Н | -13.14 | 29.56 | 74.00 | -44.44 | |
| 2370.54 | 37.04 | Ave | 70 | 1.7 | Н | -13.14 | 23.90 | 54.00 | -30.10 | |
| 2490.87 | 44.02 | PK | 95 | 1.5 | V | -13.08 | 30.94 | 74.00 | -43.06 | |
| 2490.87 | 37.34 | Ave | 95 | 1.5 | V | -13.08 | 24.26 | 54.00 | -29.74 | |

| F | Receiver | Datastan | Turn | RX An | tenna | Corrected | Corrected | FCC Part 15.247/209/205 | | |
|---------------------------|----------|-------------|----------------|--------|-------|-----------|------------------------|----------------------------|--------|--|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| 11g: High Channel 2462MHz | | | | | | | | | | |
| 223.45 | 43.39 | QP | 195 | 1.7 | Н | -11.62 | 31.77 | 46.00 | -14.23 | |
| 223.45 | 37.90 | QP | 273 | 1.8 | V | -11.62 | 26.28 | 46.00 | -19.72 | |
| 4924.00 | 50.30 | PK | 190 | 1.8 | V | -0.24 | 50.06 | 74.00 | -23.94 | |
| 4924.00 | 43.52 | Ave | 190 | 1.8 | V | -0.24 | 43.28 | 54.00 | -10.72 | |
| 7386.00 | 39.24 | PK | 194 | 1.8 | Н | 2.84 | 42.08 | 74.00 | -31.92 | |
| 7386.00 | 37.66 | Ave | 194 | 1.8 | Н | 2.84 | 40.50 | 54.00 | -13.50 | |
| 2325.00 | 45.45 | PK | 119 | 1.3 | V | -13.19 | 32.26 | 74.00 | -41.74 | |
| 2325.00 | 39.72 | Ave | 119 | 1.3 | V | -13.19 | 26.53 | 54.00 | -27.47 | |
| 2383.49 | 43.41 | PK | 345 | 1.5 | Н | -13.14 | 30.27 | 74.00 | -43.73 | |
| 2383.49 | 36.08 | Ave | 345 | 1.5 | Н | -13.14 | 22.94 | 54.00 | -31.06 | |
| 2499.76 | 42.97 | PK | 221 | 1.0 | V | -13.08 | 29.89 | 74.00 | -44.11 | |
| 2499.76 | 36.11 | Ave | 221 | 1.0 | V | -13.08 | 23.03 | 54.00 | -30.97 | |

| | Receiver | I letector | Turn | RX An | tenna | Corrected | 0 | FCC F 15.247/2 | |
|-----------|----------|-------------|----------------|---------|----------|-----------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11n20: L | ow Chan | nel 2412 | 2MHz | | | |
| 223.45 | 39.70 | QP | 197 | 1.6 | Н | -11.62 | 28.08 | 46.00 | -17.92 |
| 223.45 | 36.01 | QP | 342 | 1.6 | V | -11.62 | 24.39 | 46.00 | -21.61 |
| 4824.00 | 48.67 | PK | 72 | 1.7 | V | -1.06 | 47.61 | 74.00 | -26.39 |
| 4824.00 | 46.43 | Ave | 72 | 1.7 | V | -1.06 | 45.37 | 54.00 | -8.63 |
| 7236.00 | 42.33 | PK | 139 | 1.6 | Н | 1.33 | 43.66 | 74.00 | -30.34 |
| 7236.00 | 41.08 | Ave | 139 | 1.6 | Н | 1.33 | 42.41 | 54.00 | -11.59 |
| 2333.78 | 45.81 | PK | 99 | 1.2 | V | -13.19 | 32.62 | 74.00 | -41.38 |
| 2333.78 | 37.64 | Ave | 99 | 1.2 | V | -13.19 | 24.45 | 54.00 | -29.55 |
| 2375.85 | 42.24 | PK | 250 | 2.0 | Н | -13.14 | 29.10 | 74.00 | -44.90 |
| 2375.85 | 38.90 | Ave | 250 | 2.0 | Н | -13.14 | 25.76 | 54.00 | -28.24 |
| 2498.04 | 44.76 | PK | 327 | 1.8 | V | -13.08 | 31.68 | 74.00 | -42.32 |
| 2498.04 | 38.98 | Ave | 327 | 1.8 | V | -13.08 | 25.90 | 54.00 | -28.10 |

| F | Receiver | I letector | Turn | RX An | tenna | Corrected Factor | Carrantad | FCC Part 15.247/209/205 | |
|-----------|----------|-------------|----------------|-----------|----------|---------------------|------------------------|----------------------------|--------|
| Frequency | Reading | | table Angle | Height | Polar | | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | , | 11n20: Mi | ddle Chai | nnel 243 | 37MHz | | | |
| 223.45 | 38.70 | QP | 189 | 1.5 | Н | -11.62 | 27.08 | 46.00 | -18.92 |
| 223.45 | 36.17 | QP | 335 | 1.3 | V | -11.62 | 24.55 | 46.00 | -21.45 |
| 4874.00 | 49.85 | PK | 43 | 1.9 | V | -0.62 | 49.23 | 74.00 | -24.77 |
| 4874.00 | 47.61 | Ave | 43 | 1.9 | V | -0.62 | 46.99 | 54.00 | -7.01 |
| 7311.00 | 43.15 | PK | 355 | 1.1 | Н | 2.21 | 45.36 | 74.00 | -28.64 |
| 7311.00 | 42.52 | Ave | 355 | 1.1 | Н | 2.21 | 44.73 | 54.00 | -9.27 |
| 2327.99 | 45.24 | PK | 88 | 1.2 | V | -13.19 | 32.05 | 74.00 | -41.95 |
| 2327.99 | 39.05 | Ave | 88 | 1.2 | V | -13.19 | 25.86 | 54.00 | -28.14 |
| 2372.28 | 44.33 | PK | 316 | 1.5 | Н | -13.14 | 31.19 | 74.00 | -42.81 |
| 2372.28 | 38.69 | Ave | 316 | 1.5 | Н | -13.14 | 25.55 | 54.00 | -28.45 |
| 2489.94 | 43.34 | PK | 281 | 1.1 | V | -13.08 | 30.26 | 74.00 | -43.74 |
| 2489.94 | 38.63 | Ave | 281 | 1.1 | V | -13.08 | 25.55 | 54.00 | -28.45 |

| Frequency | Receiver | Datastan | Turn | RX An | tenna | Corrected Factor | Compated | FCC Part 15.247/209/205 | |
|-----------|----------|-------------|----------------|----------|----------|------------------|------------------------|----------------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11n20: H | igh Chan | nel 2462 | 2MHz | | | |
| 223.45 | 37.87 | QP | 197 | 1.9 | Н | -11.62 | 26.25 | 46.00 | -19.75 |
| 223.45 | 35.63 | QP | 58 | 1.7 | V | -11.62 | 24.01 | 46.00 | -21.99 |
| 4924.00 | 48.64 | PK | 250 | 1.2 | V | -0.24 | 48.40 | 74.00 | -25.60 |
| 4924.00 | 47.74 | Ave | 250 | 1.2 | V | -0.24 | 47.50 | 54.00 | -6.50 |
| 7386.00 | 41.95 | PK | 219 | 1.3 | Н | 2.84 | 44.79 | 74.00 | -29.21 |
| 7386.00 | 41.31 | Ave | 219 | 1.3 | Н | 2.84 | 44.15 | 54.00 | -9.85 |
| 2333.74 | 45.63 | PK | 97 | 1.8 | V | -13.19 | 32.44 | 74.00 | -41.56 |
| 2333.74 | 38.05 | Ave | 97 | 1.8 | V | -13.19 | 24.86 | 54.00 | -29.14 |
| 2388.54 | 44.14 | PK | 36 | 1.6 | Н | -13.14 | 31.00 | 74.00 | -43.00 |
| 2388.54 | 36.59 | Ave | 36 | 1.6 | Н | -13.14 | 23.45 | 54.00 | -30.55 |
| 2491.13 | 42.88 | PK | 245 | 1.1 | V | -13.08 | 29.80 | 74.00 | -44.20 |
| 2491.13 | 37.08 | Ave | 245 | 1.1 | V | -13.08 | 24.00 | 54.00 | -30.00 |

| Frequency | Receiver | Datastan | Turn | RX An | tenna | Corrected Factor | Compated | FCC F 15.247/2 | |
|-----------|----------|-------------|----------------|----------|----------|------------------|------------------------|-------------------|--------|
| Frequency | Reading | Detector | table Angle | Height | Polar | Factor | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | 11n40: L | ow Chani | nel 2422 | 2MHz | | | |
| 223.45 | 42.70 | QP | 291 | 1.2 | Н | -11.62 | 31.08 | 46.00 | -14.92 |
| 223.45 | 34.88 | QP | 64 | 1.6 | V | -11.62 | 23.26 | 46.00 | -22.74 |
| 4844.00 | 50.88 | PK | 218 | 1.2 | V | -1.06 | 49.82 | 74.00 | -24.18 |
| 4844.00 | 42.57 | Ave | 218 | 1.2 | V | -1.06 | 41.51 | 54.00 | -12.49 |
| 7266.00 | 37.58 | PK | 227 | 1.2 | Н | 1.33 | 38.91 | 74.00 | -35.09 |
| 7266.00 | 35.73 | Ave | 227 | 1.2 | Н | 1.33 | 37.06 | 54.00 | -16.94 |
| 2342.74 | 46.30 | PK | 4 | 1.5 | V | -13.19 | 33.11 | 74.00 | -40.89 |
| 2342.74 | 38.07 | Ave | 4 | 1.5 | V | -13.19 | 24.88 | 54.00 | -29.12 |
| 2385.66 | 42.84 | PK | 337 | 1.3 | Н | -13.14 | 29.70 | 74.00 | -44.30 |
| 2385.66 | 38.17 | Ave | 337 | 1.3 | Н | -13.14 | 25.03 | 54.00 | -28.97 |
| 2485.61 | 42.00 | PK | 249 | 1.3 | V | -13.08 | 28.92 | 74.00 | -45.08 |
| 2485.61 | 38.32 | Ave | 249 | 1.3 | V | -13.08 | 25.24 | 54.00 | -28.76 |

| F | Receiver | I)etector | Turn | RX An | tenna | Corrected Factor | Carrantad | FCC Part 15.247/209/205 | |
|-----------|----------|-------------|----------------|----------|----------|---------------------|------------------------|----------------------------|--------|
| Frequency | Reading | | table Angle | Height | Polar | | Corrected Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | , | 11n40: Mi | ddle Cha | nnel 243 | 37MHz | | | |
| 223.45 | 42.55 | QP | 125 | 1.2 | Н | -11.62 | 30.93 | 46.00 | -15.07 |
| 223.45 | 34.00 | QP | 311 | 1.1 | V | -11.62 | 22.38 | 46.00 | -23.62 |
| 4874.00 | 51.68 | PK | 272 | 1.8 | V | -0.62 | 51.06 | 74.00 | -22.94 |
| 4874.00 | 42.37 | Ave | 272 | 1.8 | V | -0.62 | 41.75 | 54.00 | -12.25 |
| 7311.00 | 37.30 | PK | 124 | 1.4 | Н | 2.21 | 39.51 | 74.00 | -34.49 |
| 7311.00 | 34.75 | Ave | 124 | 1.4 | Н | 2.21 | 36.96 | 54.00 | -17.04 |
| 2348.13 | 45.84 | PK | 201 | 2.0 | V | -13.19 | 32.65 | 74.00 | -41.35 |
| 2348.13 | 37.86 | Ave | 201 | 2.0 | V | -13.19 | 24.67 | 54.00 | -29.33 |
| 2388.42 | 43.72 | PK | 205 | 1.2 | Н | -13.14 | 30.58 | 74.00 | -43.42 |
| 2388.42 | 38.88 | Ave | 205 | 1.2 | Н | -13.14 | 25.74 | 54.00 | -28.26 |
| 2485.54 | 44.62 | PK | 127 | 1.1 | V | -13.08 | 31.54 | 74.00 | -42.46 |
| 2485.54 | 36.23 | Ave | 127 | 1.1 | V | -13.08 | 23.15 | 54.00 | -30.85 |

| Frequency | Receiver | I)etector | Turn | RX An | tenna | Corrected Factor | 0 | FCC Part 15.247/209/205 | | |
|-----------|-----------------------------|-------------|----------------|--------|-------|---------------------|------------------------|----------------------------|--------|--|
| | Reading | | table Angle | Height | Polar | | Corrected Amplitude | Limit | Margin | |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | |
| | 11n40: High Channel 2452MHz | | | | | | | | | |
| 223.45 | 41.92 | QP | 359 | 1.6 | Н | -11.62 | 30.30 | 46.00 | -15.70 | |
| 223.45 | 33.63 | QP | 32 | 1.5 | V | -11.62 | 22.01 | 46.00 | -23.99 | |
| 4904.00 | 50.69 | PK | 46 | 1.4 | V | -0.24 | 50.45 | 74.00 | -23.55 | |
| 4904.00 | 43.13 | Ave | 46 | 1.4 | V | -0.24 | 42.89 | 54.00 | -11.11 | |
| 7356.00 | 36.73 | PK | 146 | 1.8 | Н | 2.84 | 39.57 | 74.00 | -34.43 | |
| 7356.00 | 35.74 | Ave | 146 | 1.8 | Н | 2.84 | 38.58 | 54.00 | -15.42 | |
| 2329.61 | 45.62 | PK | 223 | 1.8 | V | -13.19 | 32.43 | 74.00 | -41.57 | |
| 2329.61 | 38.97 | Ave | 223 | 1.8 | V | -13.19 | 25.78 | 54.00 | -28.22 | |
| 2378.67 | 44.93 | PK | 293 | 1.4 | Н | -13.14 | 31.79 | 74.00 | -42.21 | |
| 2378.67 | 38.44 | Ave | 293 | 1.4 | Н | -13.14 | 25.30 | 54.00 | -28.70 | |
| 2492.62 | 43.37 | PK | 324 | 1.4 | V | -13.08 | 30.29 | 74.00 | -43.71 | |
| 2492.62 | 38.64 | Ave | 324 | 1.4 | V | -13.08 | 25.56 | 54.00 | -28.44 | |

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

BT BLE: Test Frequency: 9KHz~26MHz

Remark: only the worst data (GFSK modulation Low channel mode) were recorded.

| Frequency | Measurement results dBµV | Detector PK/QP | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits dBµV/m | Margi n |
|-----------|--------------------------|-------------------|----------------|--------------------------|----------------------------------|------------------|------------|
| | @3m | 11001 | dB/m | dB | dBμV/m @30m | @30m | dB |
| (MHz) | Measurement results | Detector | Correct factor | Extrapolatio n factor | Measurement results (calculated) | Limits | Margi n |
| 6.021 | 25.84 | QP | 21.84 | 40.00 | 7.68 | 29.54 | -21.86 |
| 15.730 | 25.64 | QP | 21.35 | 40.00 | 6.99 | 29.54 | -22.55 |
| 25.680 | 24.55 | QP | 20.67 | 40.00 | 5.22 | 29.54 | -24.32 |

Test Frequency: 26MHz ~ 30MHz

The measurements were more than 20 dB below the limit and not reported.

Test Frequency: 30MHz ~ 18GHz

| Frequency | Receiver | | Turn | RX An | tenna | Corrected | Corrected | | |
|-----------|----------|-------------|----------------|---------|----------|-----------|-----------|----------|--------|
| | Reading | Detector | table Angle | Height | Polar | Factor | Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| | | | GFSK L | ow Chan | nel 2402 | 2MHz | | | |
| 269.33 | 35.07 | QP | 208 | 1.8 | Н | -13.35 | 21.72 | 46.00 | -24.28 |
| 269.33 | 40.39 | QP | 334 | 1.5 | V | -13.35 | 27.04 | 46.00 | -18.96 |
| 4804.00 | 46.30 | PK | 278 | 1.7 | V | -1.06 | 45.24 | 74.00 | -28.76 |
| 4804.00 | 41.95 | Ave | 278 | 1.7 | V | -1.06 | 40.89 | 54.00 | -13.11 |
| 7206.00 | 44.63 | PK | 329 | 1.9 | Н | 1.33 | 45.96 | 74.00 | -28.04 |
| 7206.00 | 37.11 | Ave | 329 | 1.9 | Н | 1.33 | 38.44 | 54.00 | -15.56 |
| 2346.81 | 46.51 | PK | 354 | 1.9 | V | -13.19 | 33.32 | 74.00 | -40.68 |
| 2346.81 | 39.13 | Ave | 354 | 1.9 | V | -13.19 | 25.94 | 54.00 | -28.06 |
| 2376.86 | 44.69 | PK | 28 | 1.0 | Н | -13.14 | 31.55 | 74.00 | -42.45 |
| 2376.86 | 37.51 | Ave | 28 | 1.0 | Н | -13.14 | 24.37 | 54.00 | -29.63 |
| 2498.89 | 42.90 | PK | 63 | 1.1 | V | -13.08 | 29.82 | 74.00 | -44.18 |
| 2498.89 | 37.10 | Ave | 63 | 1.1 | V | -13.08 | 24.02 | 54.00 | -29.98 |

| Frequency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected | Corrected | | |
|-----------------------------|---------------------|-------------|------------------------|------------|-------|-----------|-----------|----------|--------|
| | | | | Height | Polar | Factor | Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| GFSK Middle Channel 2440MHz | | | | | | | | | |
| 269.33 | 34.22 | QP | 332 | 1.5 | Н | -13.35 | 20.87 | 46.00 | -25.13 |
| 269.33 | 39.89 | QP | 221 | 1.8 | V | -13.35 | 26.54 | 46.00 | -19.46 |
| 4880.00 | 43.46 | PK | 171 | 1.7 | V | -0.62 | 42.84 | 74.00 | -31.16 |
| 4880.00 | 40.63 | Ave | 171 | 1.7 | V | -0.62 | 40.01 | 54.00 | -13.99 |
| 7320.00 | 44.10 | PK | 163 | 1.4 | Н | 2.21 | 46.31 | 74.00 | -27.69 |
| 7320.00 | 36.99 | Ave | 163 | 1.4 | Н | 2.21 | 39.20 | 54.00 | -14.80 |
| 2331.70 | 46.42 | PK | 95 | 1.0 | V | -13.19 | 33.23 | 74.00 | -40.77 |
| 2331.70 | 39.20 | Ave | 95 | 1.0 | V | -13.19 | 26.01 | 54.00 | -27.99 |
| 2383.04 | 43.65 | PK | 245 | 1.8 | Н | -13.14 | 30.51 | 74.00 | -43.49 |
| 2383.04 | 38.42 | Ave | 245 | 1.8 | Н | -13.14 | 25.28 | 54.00 | -28.72 |
| 2499.25 | 42.74 | PK | 202 | 1.0 | V | -13.08 | 29.66 | 74.00 | -44.34 |
| 2499.25 | 37.59 | Ave | 202 | 1.0 | V | -13.08 | 24.51 | 54.00 | -29.49 |

| Frequency | Receiver Reading | Detector | Turn table Angle | RX Antenna | | Corrected | Corrected | | |
|---------------------------|---------------------|-------------|------------------------|------------|-------|-----------|-----------|----------|--------|
| | | | | Height | Polar | Factor | Amplitude | Limit | Margin |
| (MHz) | (dBµV) | (PK/QP/Ave) | Degree | (m) | (H/V) | (dB) | (dBµV/m) | (dBµV/m) | (dB) |
| GFSK High Channel 2480MHz | | | | | | | | | |
| 269.33 | 33.32 | QP | 201 | 1.9 | Н | -13.35 | 19.97 | 46.00 | -26.03 |
| 269.33 | 38.46 | QP | 357 | 1.9 | V | -13.35 | 25.11 | 46.00 | -20.89 |
| 4960.00 | 42.23 | PK | 220 | 1.6 | V | -0.24 | 41.99 | 74.00 | -32.01 |
| 4960.00 | 41.97 | Ave | 220 | 1.6 | V | -0.24 | 41.73 | 54.00 | -12.27 |
| 7440.00 | 43.90 | PK | 18 | 1.1 | Н | 2.84 | 46.74 | 74.00 | -27.26 |
| 7440.00 | 36.29 | Ave | 18 | 1.1 | Н | 2.84 | 39.13 | 54.00 | -14.87 |
| 2327.07 | 45.46 | PK | 118 | 1.9 | V | -13.19 | 32.27 | 74.00 | -41.73 |
| 2327.07 | 38.03 | Ave | 118 | 1.9 | V | -13.19 | 24.84 | 54.00 | -29.16 |
| 2371.75 | 42.68 | PK | 76 | 1.2 | Н | -13.14 | 29.54 | 74.00 | -44.46 |
| 2371.75 | 38.59 | Ave | 76 | 1.2 | Н | -13.14 | 25.45 | 54.00 | -28.55 |
| 2492.22 | 42.04 | PK | 226 | 1.1 | V | -13.08 | 28.96 | 74.00 | -45.04 |
| 2492.22 | 38.70 | Ave | 226 | 1.1 | V | -13.08 | 25.62 | 54.00 | -28.38 |

Test Frequency: 18GHz~25GHz

The measurements were more than 20 dB below the limit and not reported.

Reference No.: WTS19S09068045W003 V1 Page 39 of 93

10 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

Test Result: PASS

Limit:

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a) (see Section 15.205(c)).

10.1 Test Procedure

- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
- 2. Set the spectrum analyzer:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to _ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the VBW $_$ [3 \times RBW].
 - e) Detector = peak.
 - f) Sweep time = auto couple.
 - g) Trace mode = max hold.
 - h) Allow trace to fully stabilize.
 - i) Use the peak marker function to determine the maximum PSD level.

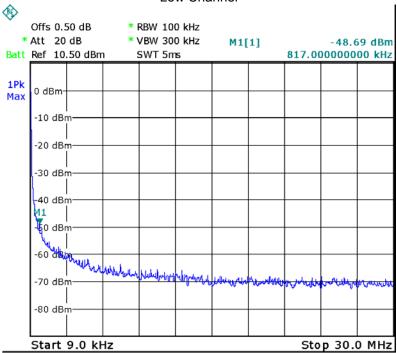
Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

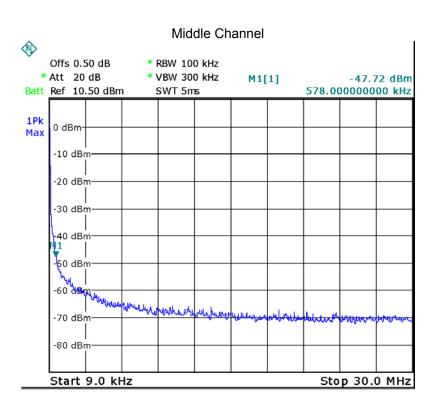
10.2 Test Result

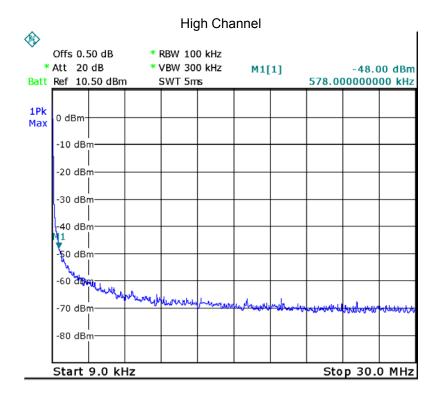
9KHz - 30MHz

802.11b

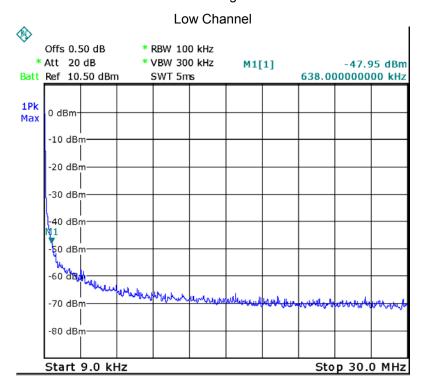
Low Channel

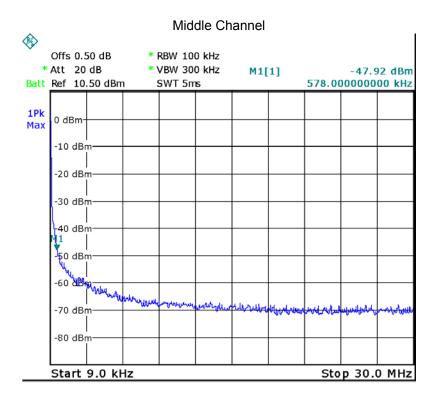


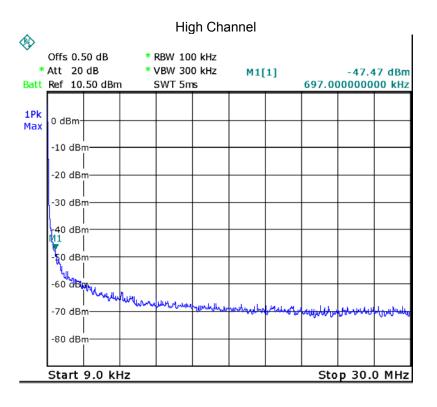




802.11g

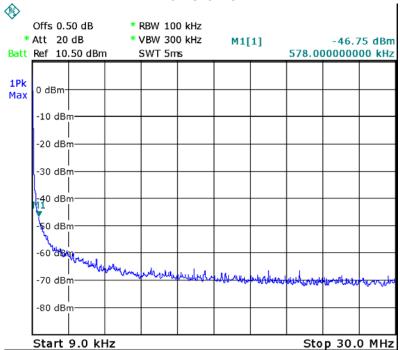




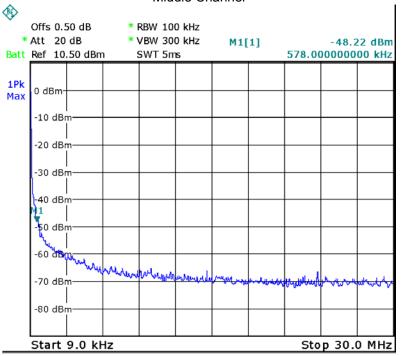


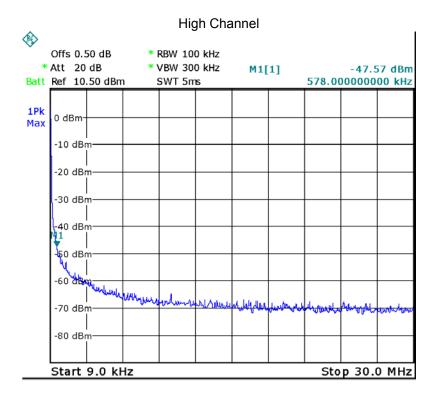
802.11n HT20



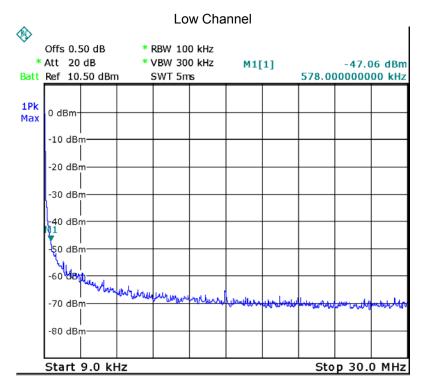


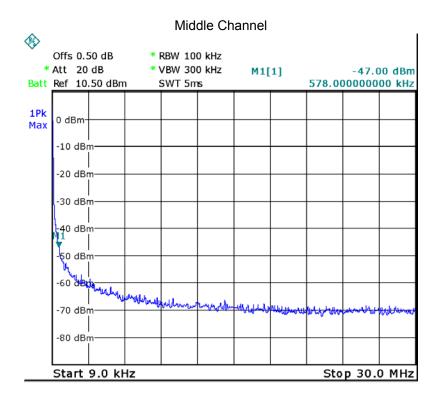
Middle Channel

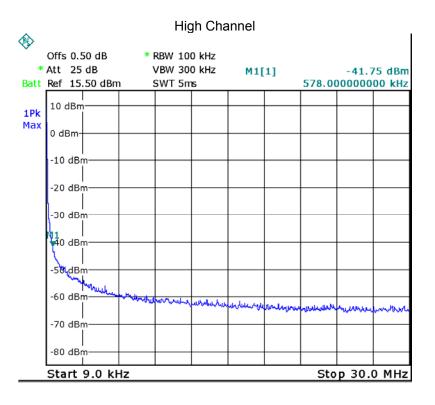




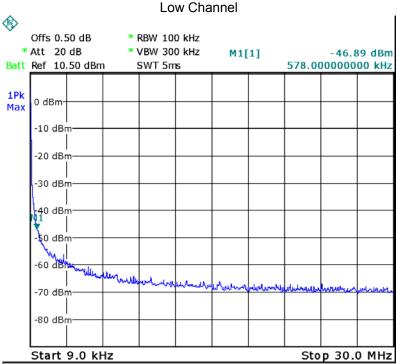
802.11n HT40

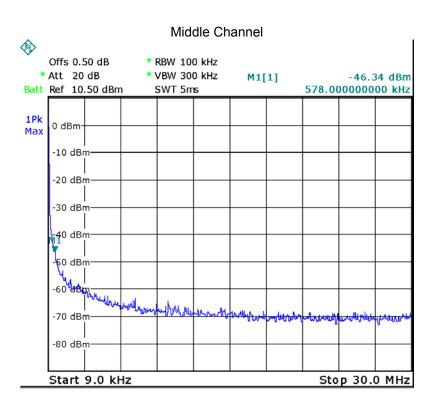


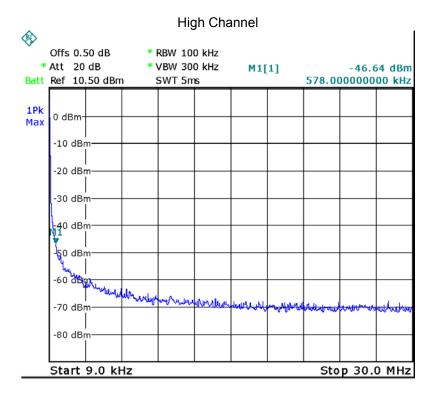




BLE



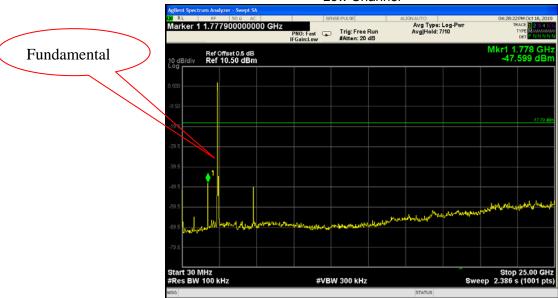


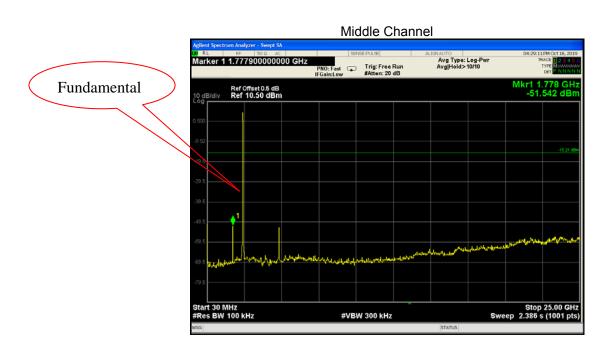


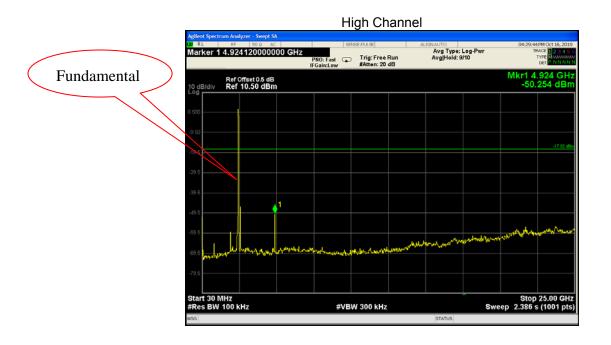
Above 30MHz

802.11b

Low Channel

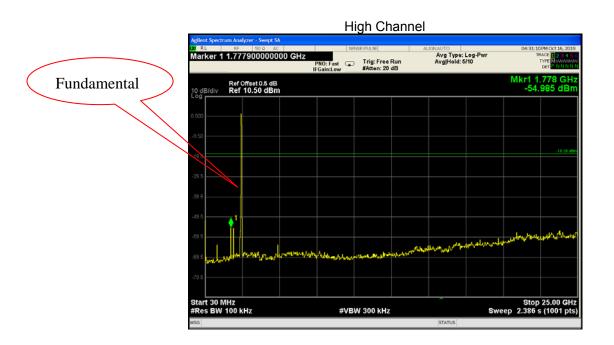






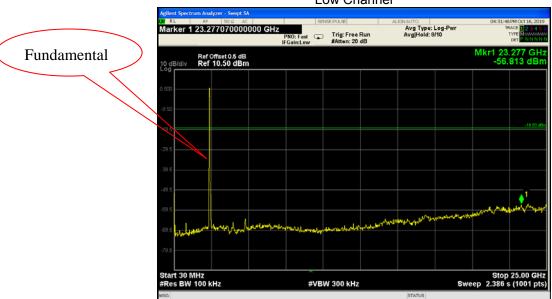
| South | Sout

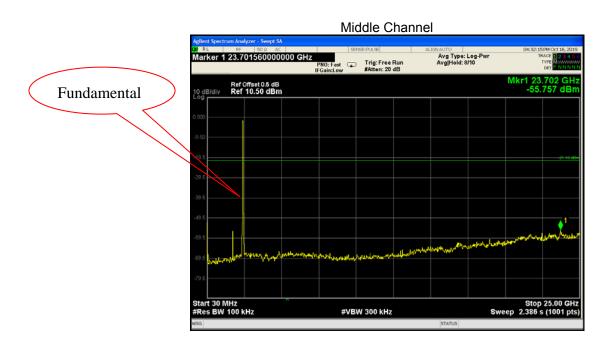


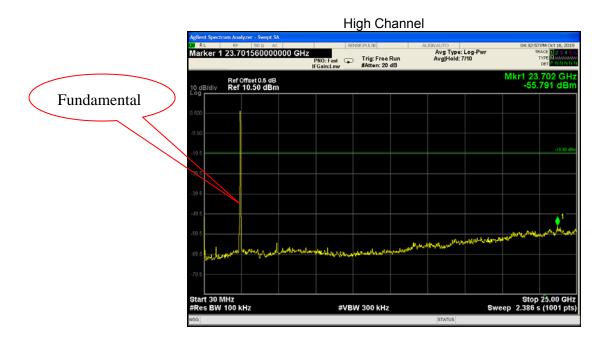


802.11n HT20

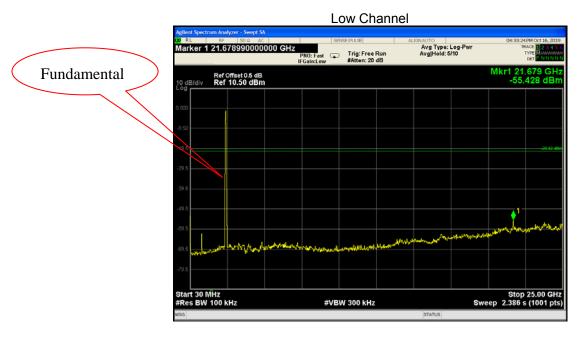


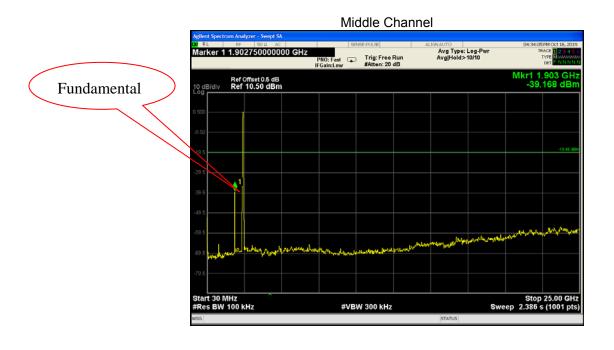


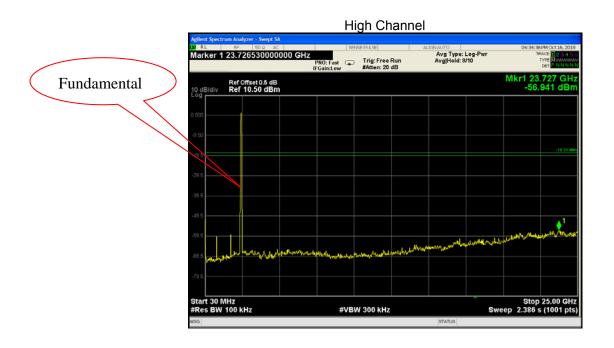




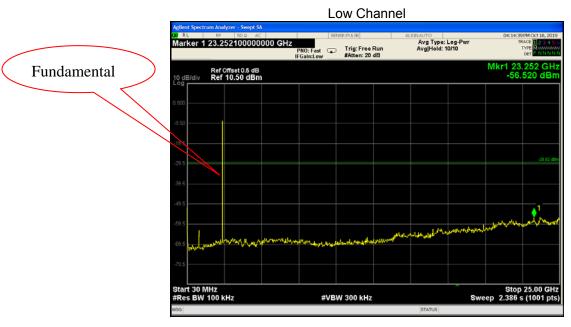
802.11n HT40

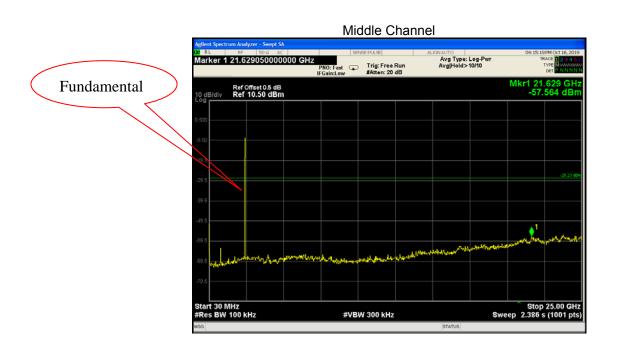


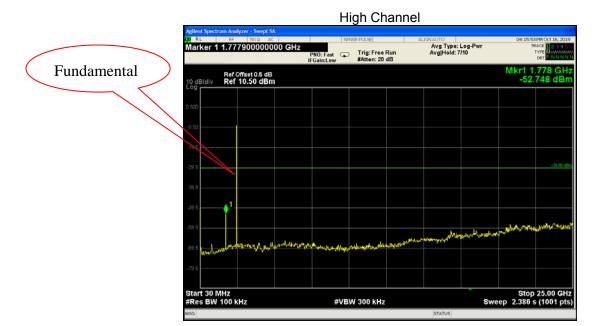




BLE







Reference No.: WTS19S09068045W003 V1 Page 56 of 93

11 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which

the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least

highest level of the desired power, based on either an RF conducted or a radiated

measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power

20 dB below that in the 100 kHz bandwidth within the band that contains the

limits based on the use of RMS averaging over a time interval, as permitted under

paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in

§15.209(a) is not required. In addition, radiated emissions which fall in the

restricted bands, as defined in §15.205(a), must also comply with the radiated

emission limits specified in §15.209(a) (see §15.205(c)).

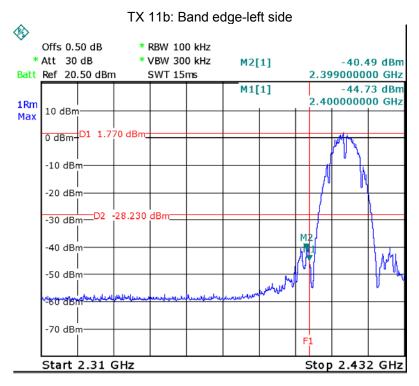
Test Mode: Transmitting

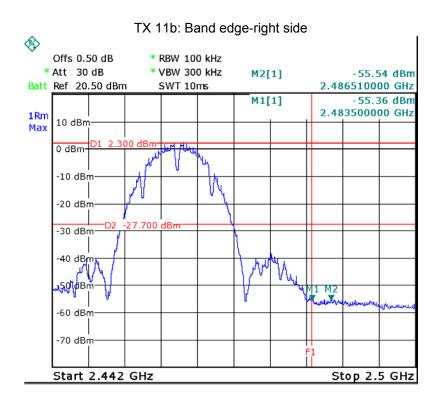
11.1 Test Produce

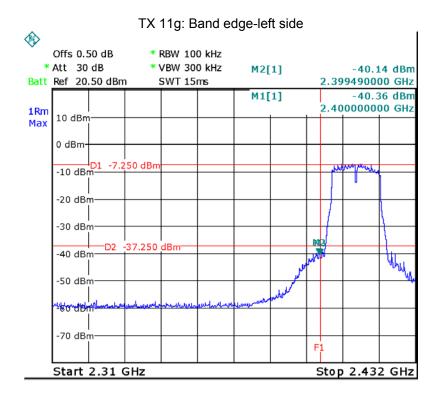
- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
- 3. Set RBW to 100 kHz and VBW of spectrum analyzer to 300 kHz with a convenient frequency span including 100 kHz bandwidth from band edge.
- 4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.
- 5. Repeat above procedures until all measured frequencies were complete.

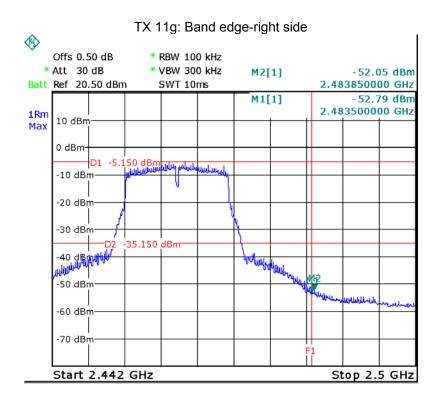
11.2 Test Result

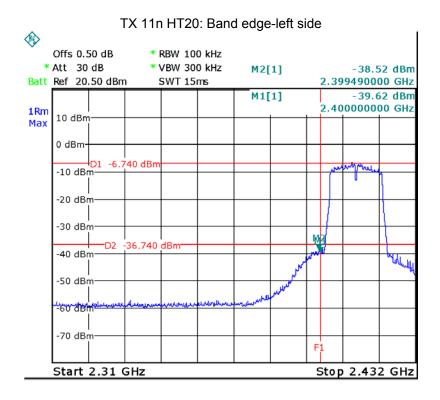
Test result plots shown as follows:

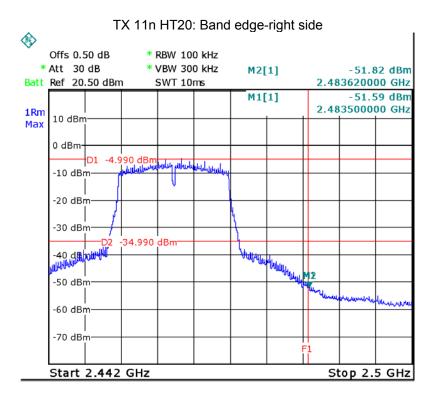


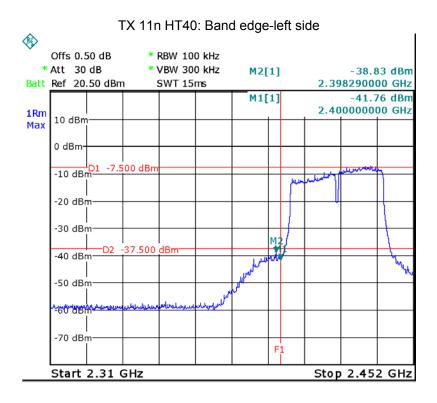


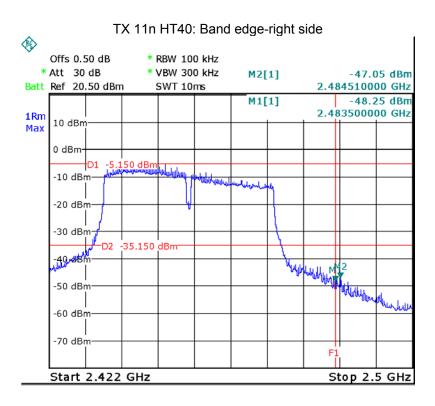


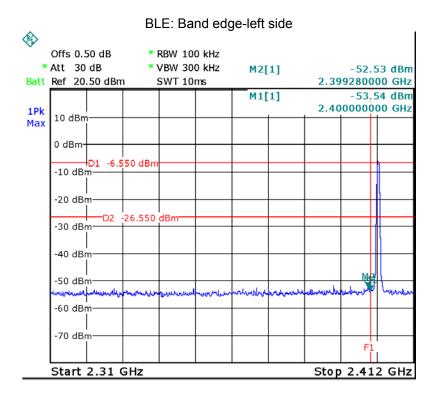


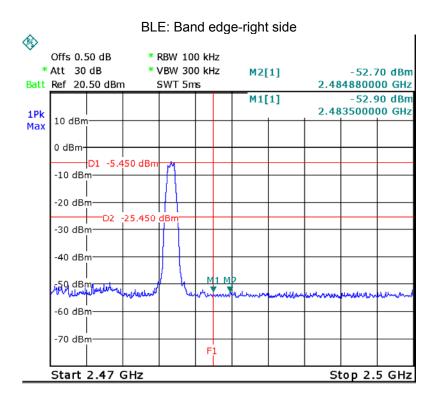












Reference No.: WTS19S09068045W003 V1 Page 62 of 93

12 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

12.1 Test Procedure:

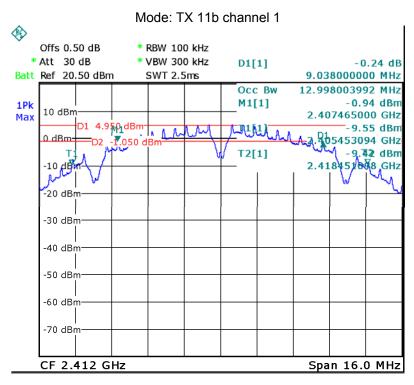
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;

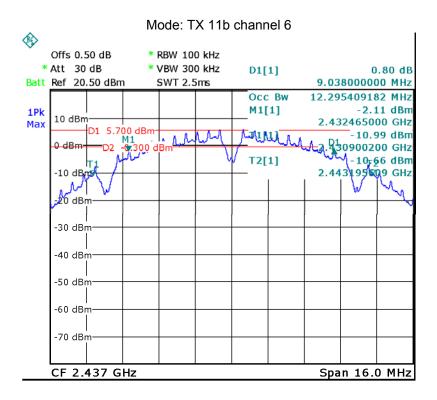
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

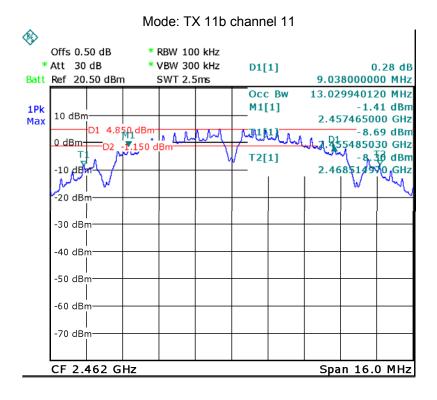
12.2 Test Result:

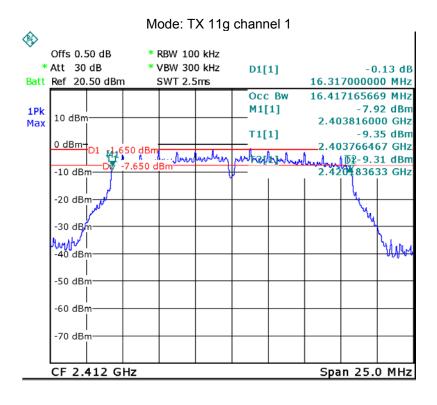
| Operation mode | Test Channel | 6dB Bandwidth (MHz) | 99% Bandwidth (MHz) | |
|----------------|--------------|---------------------|---------------------|--|
| | Channel 1 | 9.038 | 12.998 | |
| TX 11b | Channel 6 | 9.038 | 12.295 | |
| | Channel 11 | 9.038 | 13.030 | |
| | Channel 1 | 16.317 | 16.417 | |
| TX 11g | Channel 6 | 15.070 | 16.218 | |
| | Channel 11 | 16.317 | 16.467 | |
| | Channel 1 | 17.192 | 17.623 | |
| TX 11n HT20 | Channel 6 | 15.090 | 17.353 | |
| | Channel 11 | 17.299 | 17.677 | |
| | Channel 3 | 35.420 | 36.008 | |
| TX 11n HT40 | Channel 6 | 24.920 | 35.130 | |
| | Channel 9 | 35.680 | 35.898 | |
| | Channel 0 | 0629 | 0.940 | |
| BLE | Channel 19 | 0.641 | 0.940 | |
| | Channel 39 | 0.653 | 0.940 | |

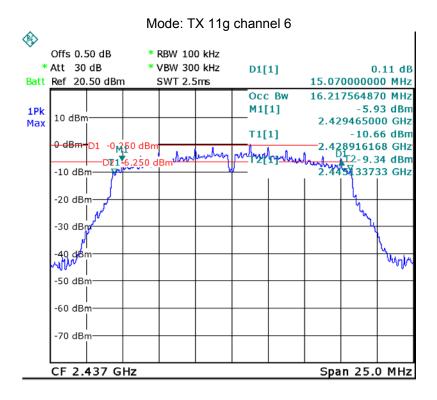
Test result plot:

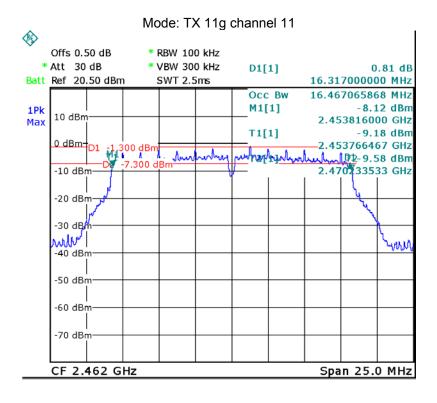


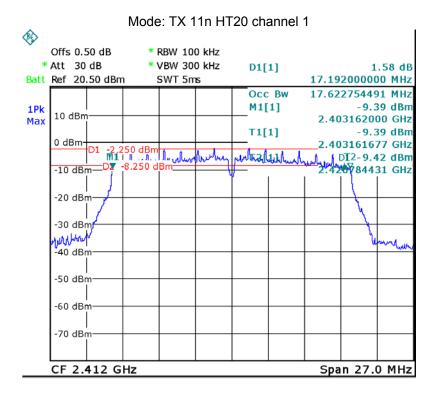


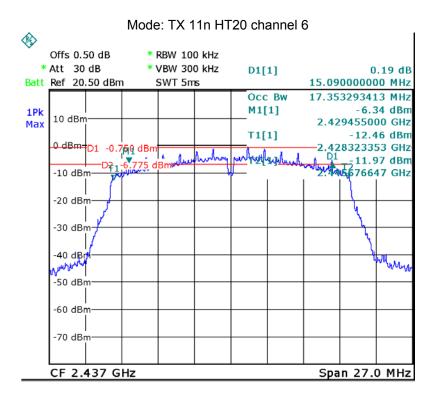


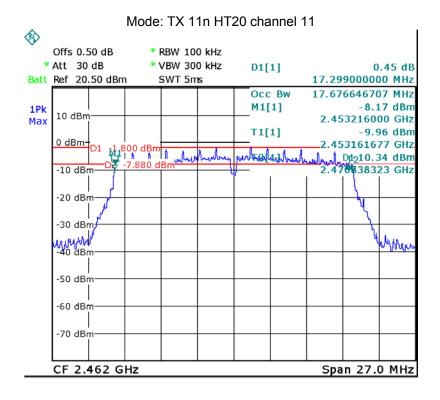


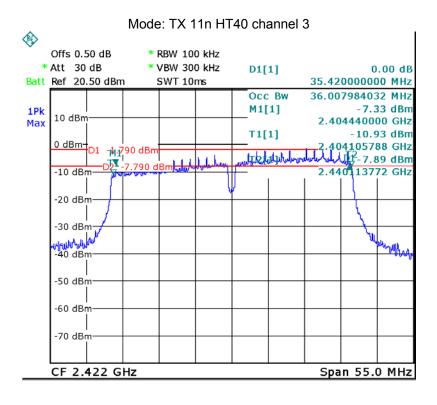


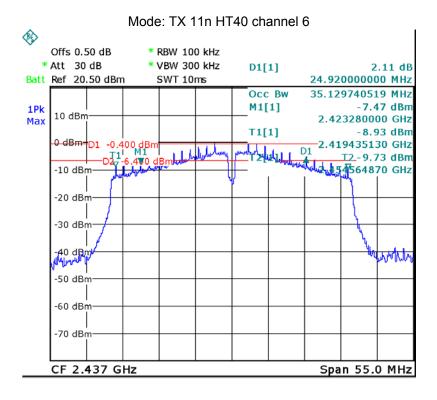


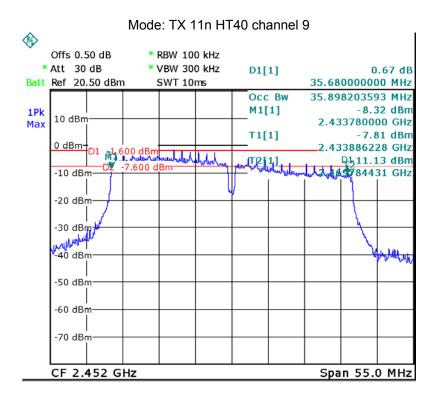


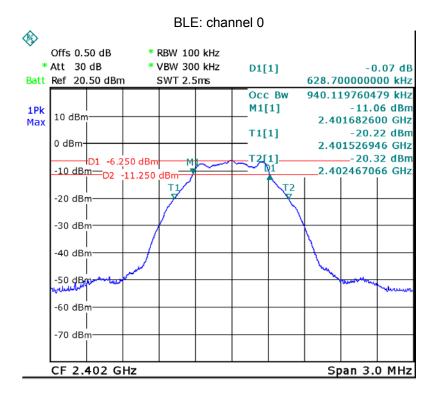


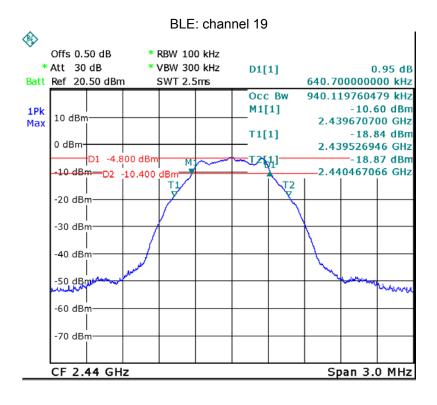


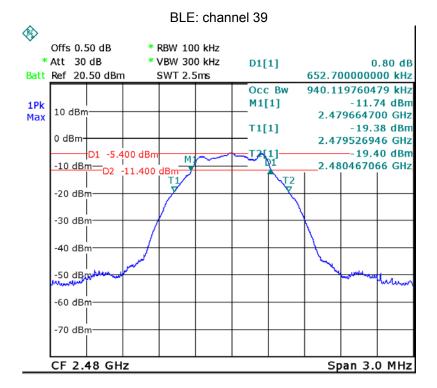












13 Maximum Peak conducted Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

13.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019

section 8.3.1.1 (For BLE)

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

- a)Set the RBW ≥ DTS bandwidth.
- b)Set VBW ≥ 3 RBW.
- c)Set span ≥ 3 x RBW
- d)Sweep time = auto couple.
- e)Detector = peak.
- f)Trace mode = max hold.
- g)Allow trace to fully stabilize.
- h)Use peak marker function to determine the peak amplitude level.

section 8.3.1.2 (For WIFI)

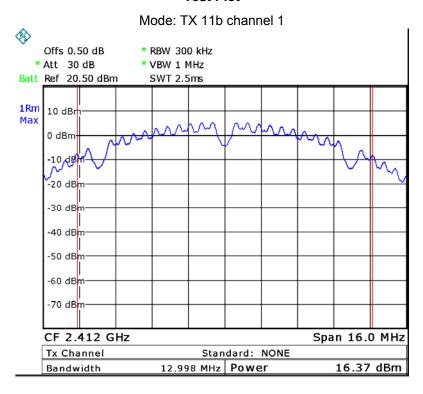
This procedure may be used when the maximum available RBW of the measurement instrument is less than the DTS bandwidth.

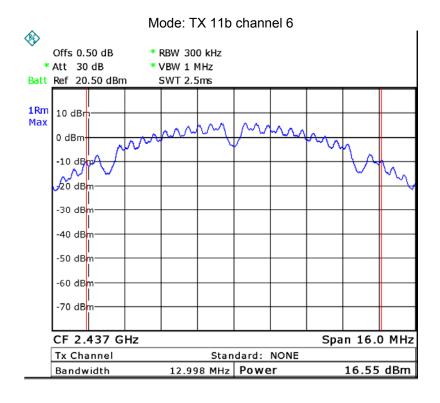
- a)Set the RBW = 1% to 5% of the OBW, not to exceed 1 MHz..
- b)Set the VBW \geq 3 x RBW
- c)Set the span \geq 1.5 x OBW.
- d)Detector = RMS.
- e)Sweep time = auto couple.
- f) trigger = free run..
- g) Number of points in sweep $_$ [2 \times span / RBW]. (This gives bin-to-bin spacing $_$ RBW / 2, so that narrowband signals are not lost between frequency bins.)
- h) Trace average at least 100 traces in power averaging (rms) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument's band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

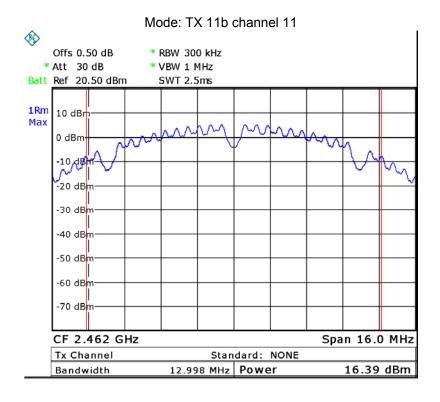
13.2 Test Result:

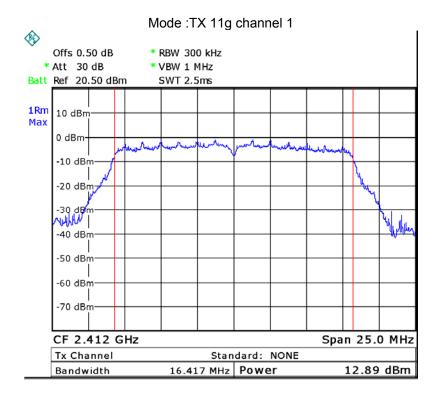
| Operation mode | Channel Frequency (MHz) | Maximum Peak Output Power (dBm) | Limit | |
|----------------|----------------------------|---------------------------------|----------|--|
| | Low-2412 | 16.37 | 1W/30dBm | |
| TX 11b | Middle-2437 | 16.55 | 1W/30dBm | |
| | High-2462 | 16.39 | 1W/30dBm | |
| | Low-2412 | 12.89 | 1W/30dBm | |
| TX 11g | Middle-2437 | 13.06 | 1W/30dBm | |
| | High-2462 | 13.26 | 1W/30dBm | |
| | Low-2412 | 13.34 | 1W/30dBm | |
| TX 11n HT20 | Middle-2437 | 12.95 | 1W/30dBm | |
| | High-2462 | 13.19 | 1W/30dBm | |
| | Low-2422 | 12.83 | 1W/30dBm | |
| TX 11n HT40 | Middle-2437 | 13.20 | 1W/30dBm | |
| | High-2452 | 13.28 | 1W/30dBm | |
| | Low-2402 | -5.84 | 1W/30dBm | |
| BLE | Middle-2440 | -4.40 | 1W/30dBm | |
| | High-2480 | -4.96 | 1W/30dBm | |

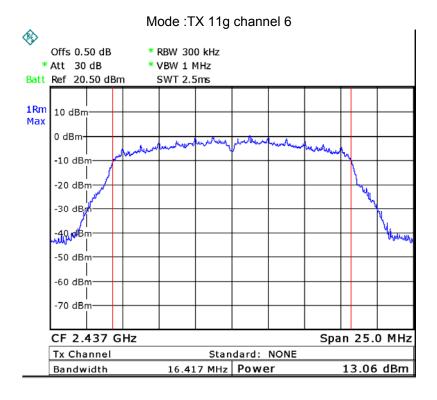
Test Plot

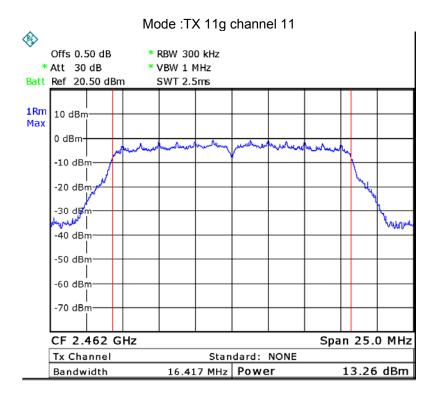


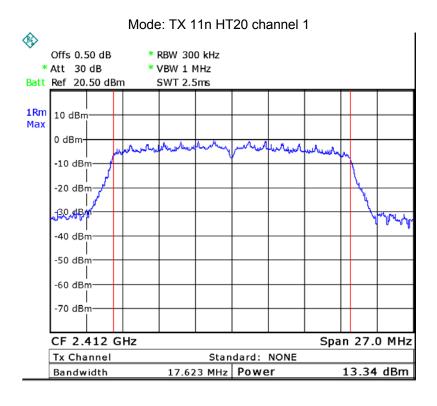


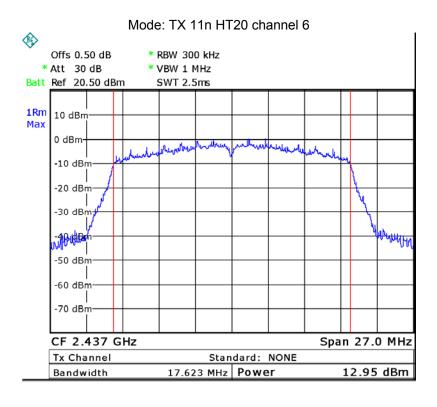


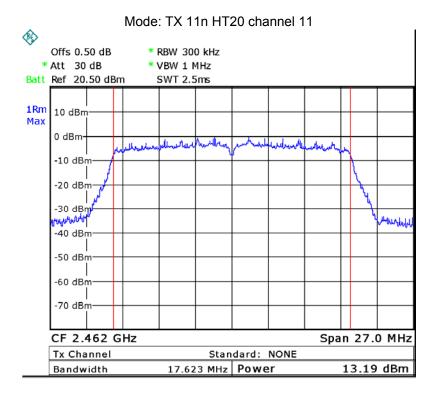


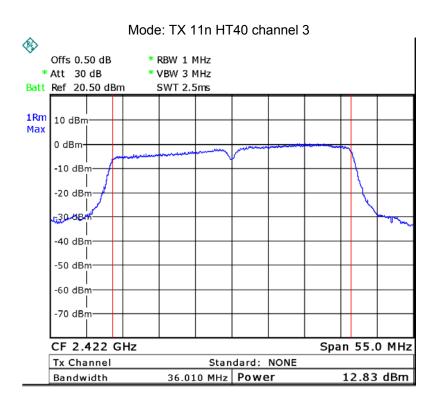


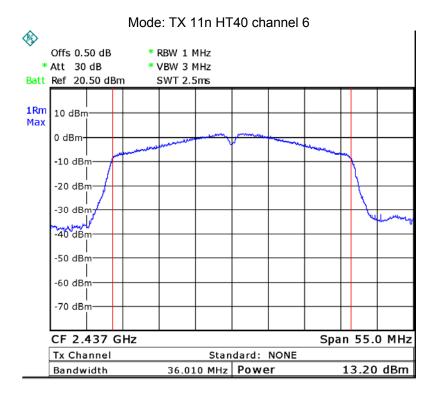


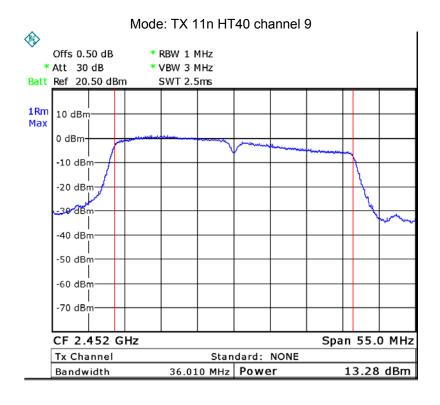


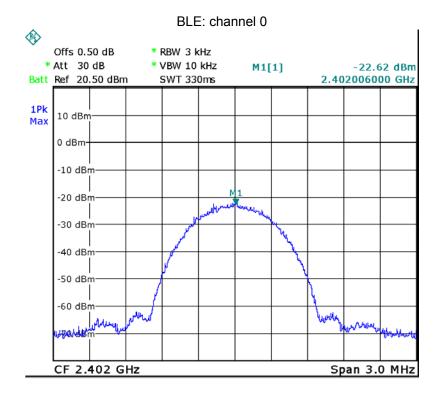


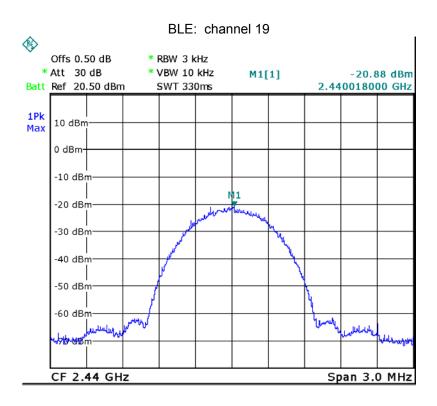


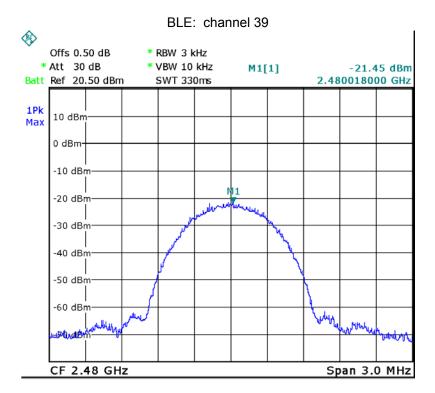












Reference No.: WTS19S09068045W003 V1 Page 81 of 93

14 Duty cycle

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: ANSI C63.10: 2013

Test Limit: N/A

Test Result: PASS

Remark: EUT transmitting continuously

Reference No.: WTS19S09068045W003 V1 Page 82 of 93

15 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;

ANSI C63.10:2013

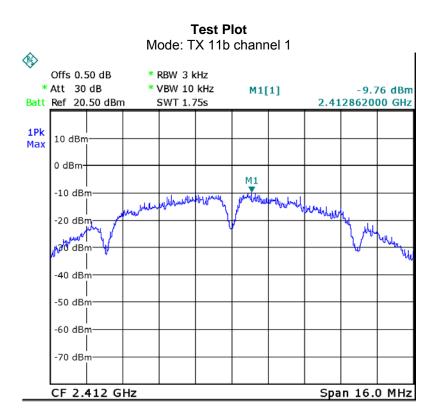
15.1 Test Procedure:

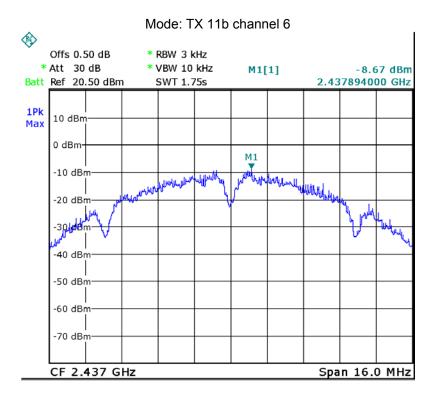
KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

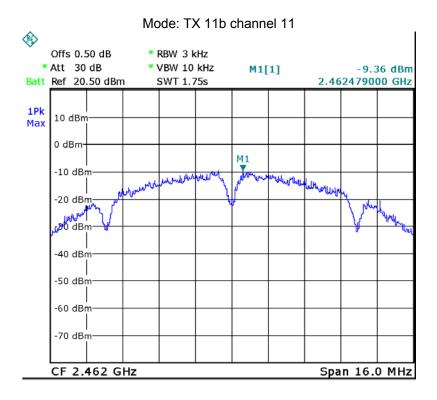
- 1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
- 2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
- 3. Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section Submit this plot.

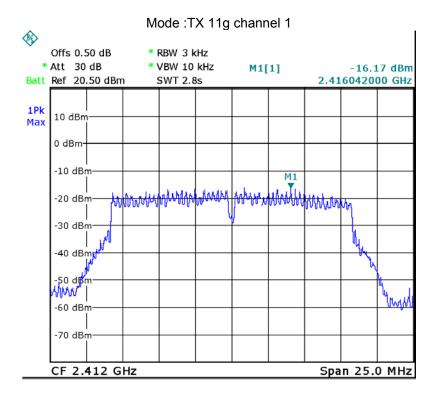
15.2 Test Result:

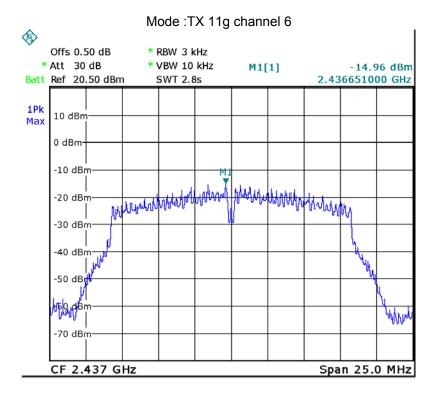
| Operation mode | Channel Frequency (MHz) | Power Spectral (dBm per 3kHz) | Limit |
|----------------|----------------------------|----------------------------------|---------------|
| TX 11b | Low-2412 | -9.76 | 8dBm per 3kHz |
| | Middle-2437 | -8.67 | 8dBm per 3kHz |
| | High-2462 | -9.36 | 8dBm per 3kHz |
| TX 11g | Low-2412 | -16.17 | 8dBm per 3kHz |
| | Middle-2437 | -14.96 | 8dBm per 3kHz |
| | High-2462 | -16.85 | 8dBm per 3kHz |
| TX 11n HT20 | Low-2412 | -15.63 | 8dBm per 3kHz |
| | Middle-2437 | -15.96 | 8dBm per 3kHz |
| | High-2462 | -16.74 | 8dBm per 3kHz |
| TX 11n HT40 | Low-2422 | -17.29 | 8dBm per 3kHz |
| | Middle-2437 | -15.31 | 8dBm per 3kHz |
| | High-2452 | -16.83 | 8dBm per 3kHz |
| BLE | Low-2402 | -22.62 | 8dBm per 3kHz |
| | Middle-2440 | -20.88 | 8dBm per 3kHz |
| | High-2480 | -21.45 | 8dBm per 3kHz |

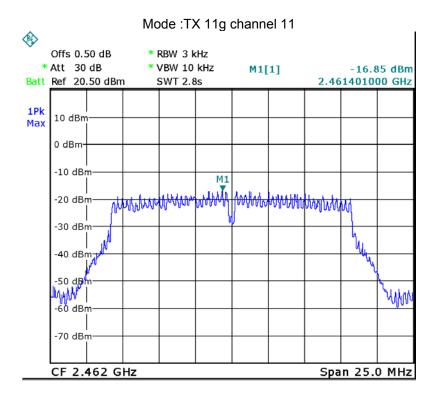


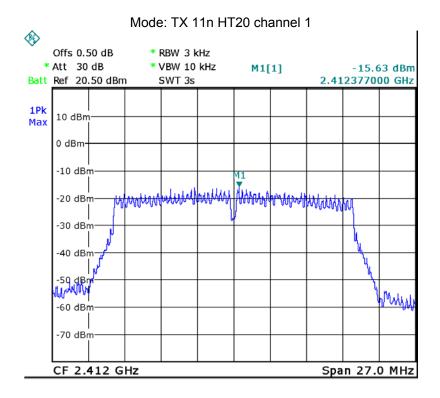


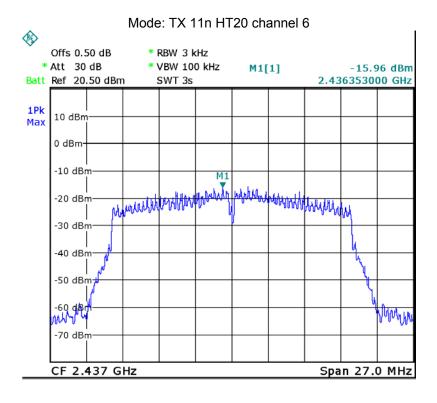


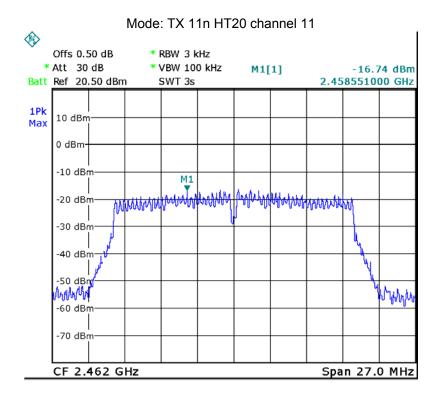


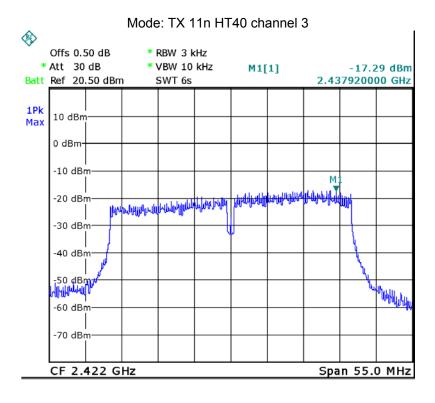


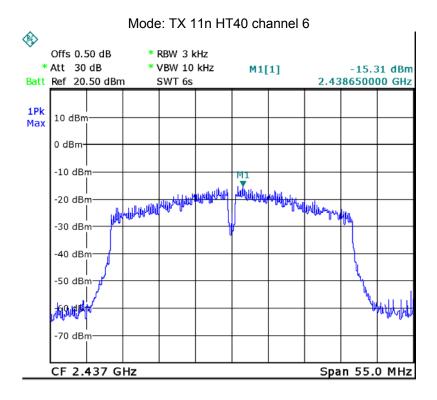


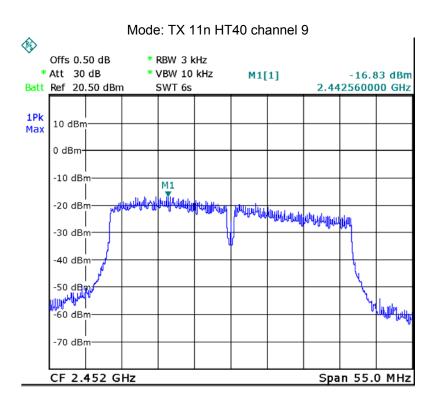


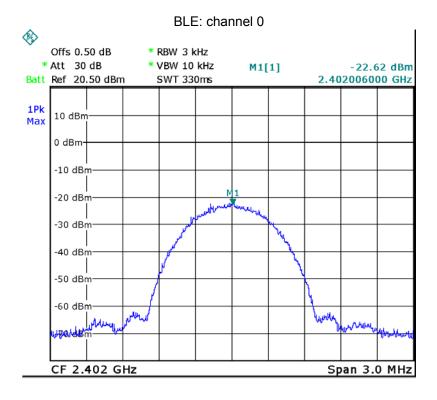


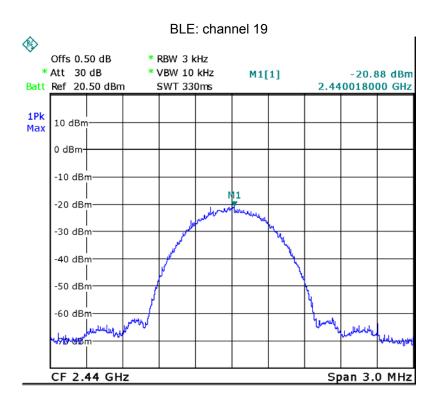


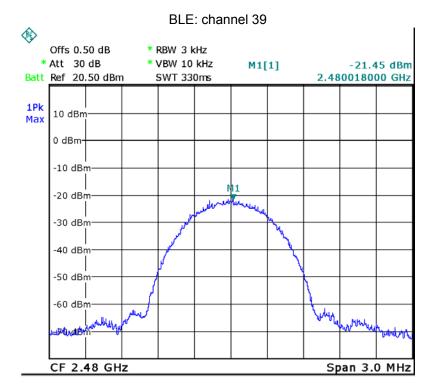












16 Antenna Requirement

According to the FCC Part 15 Paragraph 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. This product has an integrated antenna fulfill the requirement of this section.

Reference No.: WTS19S09068045W003 V1 Page 92 of 93

17 RF Exposure

Remark: refer to SAR test report: WTS19S09068045W001.

Reference No.: WTS19S09068045W003 V1 Page 93 of 93

18 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-X650B-Photos.

====End of Report=====