

# TEST REPORT

**Reference No.** ..... : WTS17S1299960-1E  
**FCC ID**..... : REY-FSW010  
**Applicant** ..... : SKYRC Technology Co., Ltd.  
**Address** ..... : 4,5,8/F, Building No. 4, MeiTai Industry Park, GuanGuang South Road,  
Guihua, Guanlan, Longhua District, Shenzhen, Guangdong, China  
**Manufacturer** ..... : SKYRC Technology Co., Ltd.  
**Address** ..... : 4,5,8/F, Building No. 4, MeiTai Industry Park, GuanGuang South Road,  
Guihua, Guanlan, Longhua District, Shenzhen, Guangdong, China  
**Product**..... : Fresco Pro, Fresco Ultra  
**Model(s)**..... : FSW010, FSW020  
**Standards**..... : FCC CFR47 Part 15 C Section 15.247:2017  
**Date of Receipt sample**.. : 2017-12-29  
**Date of Test**..... : 2017-12-30 to 2018-01-26  
**Date of Issue** ..... : 2018-01-29  
**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.

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## 1 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) of USA, 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), IC(Industry 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.

## 1.1 Test Facility

### A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA	<b>A2LA</b> (Certificate No.: 4243.01)	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India	<b>International Services</b>	WPC	-
Thailand		NTC	-
Singapore		IDA	-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. IC Canada Registration No.: 7760A			

### B.TCBs and Notify Bodies Recognized Testing Laboratory.

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

## 2 Contents

	<b>Page</b>
<b>COVER PAGE</b> .....	<b>1</b>
<b>1 LABORATORIES INTRODUCTION</b> .....	<b>2</b>
1.1 TEST FACILITY .....	3
<b>2 CONTENTS</b> .....	<b>4</b>
<b>3 REPORT REVISION HISTORY</b> .....	<b>5</b>
<b>4 GENERAL INFORMATION</b> .....	<b>6</b>
4.1 GENERAL DESCRIPTION OF E.U.T. ....	6
4.2 DETAILS OF E.U.T. ....	6
4.3 CHANNEL LIST .....	6
4.4 TEST MODE .....	7
<b>5 EQUIPMENT USED DURING TEST</b> .....	<b>8</b>
5.1 EQUIPMENT'S LIST .....	8
5.2 MEASUREMENT UNCERTAINTY .....	9
<b>6 TEST SUMMARY</b> .....	<b>10</b>
<b>7 CONDUCTED EMISSION</b> .....	<b>11</b>
7.1 E.U.T. OPERATION .....	11
7.2 EUT SETUP.....	11
7.3 MEASUREMENT DESCRIPTION .....	11
7.4 CONDUCTED EMISSION TEST RESULT .....	12
<b>8 RADIATED SPURIOUS EMISSIONS</b> .....	<b>14</b>
8.1 EUT OPERATION.....	14
8.2 TEST SETUP .....	15
8.3 SPECTRUM ANALYZER SETUP .....	16
8.4 TEST PROCEDURE .....	17
8.5 CORRECTED AMPLITUDE & MARGIN CALCULATION .....	17
8.6 SUMMARY OF TEST RESULTS .....	18
<b>9 BAND EDGE MEASUREMENT</b> .....	<b>30</b>
9.1 TEST PRODUCE.....	30
9.2 TEST RESULT .....	31
<b>10 BANDWIDTH MEASUREMENT</b> .....	<b>35</b>
10.1 TEST PROCEDURE:.....	35
10.2 TEST RESULT: .....	35
<b>11 MAXIMUM CONDUCTED (AVERAGE) OUTPUT POWER</b> .....	<b>42</b>
11.1 TEST PROCEDURE:.....	42
11.2 TEST RESULT: .....	42
<b>12 POWER SPECTRAL DENSITY</b> .....	<b>49</b>
12.1 TEST PROCEDURE:.....	49
12.2 TEST RESULT: .....	49
<b>13 ANTENNA REQUIREMENT</b> .....	<b>56</b>
<b>14 FCC ID: REY-FSW010 RF EXPOSURE REPORT</b> .....	<b>57</b>
<b>15 PHOTOGRAPHS – MODEL FSW010 TEST SETUP PHOTOS</b> .....	<b>57</b>
<b>16 PHOTOGRAPHS - CONSTRUCTIONAL DETAILS</b> .....	<b>57</b>
16.1 MODEL FSW010-EXTERNAL PHOTOS .....	57
16.2 MODEL FSW010-INTERNAL PHOTOS.....	57

### 3 Report Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS17S1299960-1E	2017-12-29	2017-12-30 to 2018-01-26	2018-01-29	original	-	Valid

## 4 General Information

### 4.1 General Description of E.U.T.

Product:	Fresco Pro, Fresco Ultra
Model(s)	FSW010, FSW020
Model Difference	The above models are the same in PCB circuit, PCB Layout, components and internal structure, only the model name is different, the model FSW010 is the test sample.
Operation Frequency:	802.11b/g/n HT20: 2412MHz ~ 2462MHz, 802.11n HT40: 2422MHz~2452MHz
Antenna Gain:	0dBi
Type of modulation:	IEEE 802.11b (CCK/QPSK/BPSK,11Mbps max.) IEEE 802.11g (BPSK/QPSK/16QAM/64QAM,54Mbps max.) IEEE 802.11n (BPSK/QPSK/16QAM/64QAM,HT20:72Mbps max., HT40:150Mbps max.)
Hardware Version:	V1.7
Software Version:	V1.10

### 4.2 Details of E.U.T.

Ratings:	Input: DC 5V 1000mA by AC/DC ADAPTER (AC/DC ADAPTER INPUT: 100-240V~, 50/60Hz, 0.25A Max, Output: DC 5V, 1000mA, Model: KA25-05010000US)
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### 4.3 Channel List

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	-

#### 4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum conducted (average) output power	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Power Spectral Density	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Bandwidth	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Band Edge	802.11b	11 Mbps	1/11	TX
	802.11g	54 Mbps	1/11	TX
	802.11n HT20	108 Mbps	1/11	TX
	802.11n HT40	150 Mbps	3/6/9	TX
Radiated Emissions	802.11b	11 Mbps	1/6/11	TX
	802.11g	54 Mbps	1/6/11	TX
	802.11n HT20	108 Mbps	1/6/11	TX
	802.11n HT40	150 Mbps	3/6/9	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 .

## 5 Equipment Used during Test

### 5.1 Equipment's List

Conducted Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	2017-09-12	2018-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11
3.	Limiter	York	MTS-IMP-136	261115-001-0024	2017-09-12	2018-09-11
4.	Cable	Laplace	RF300	-	2017-09-12	2018-09-11
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP30	100091	2017-04-29	2018-04-28
2	Broad-band Horn Antenna(1-18GHz)	SCHWARZBECK	BBHA 9120 D	667	2017-04-09	2018-04-08
3	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2017-04-13	2018-04-12
4	Coaxial Cable (above 1GHz)	Top	1GHz-18GHz	EW02014-7	2017-04-13	2018-04-12
5	Spectrum Analyzer	R&S	FSP40	100501	2017-10-20	2018-10-19
6	Broad-band Horn Antenna(18-40GHz)	SCHWARZBECK	BBHA 9170	BBHA917065 1	2017-10-25	2018-10-24
7	Microwave Broadband Preamplifier (18-40GHz)	SCHWARZBECK	BBV 9721	100472	2017-10-25	2018-10-24
8	Cable	Top	18-40GHz	-	2017-10-25	2018-10-24
3m Semi-anechoic Chamber for Radiation Emissions						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	2017-04-13	2018-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2017-04-13	2018-04-12
3	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2017-04-09	2018-04-08
4	Amplifier	ANRITSU	MH648A	M43381	2017-04-13	2018-04-12
5	Cable	HUBER+SUHNER	CBL2	525178	2017-04-13	2018-04-12
6	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2017-09-12	2018-09-11
RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11
2.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-12	2018-09-11



## 5.2 Measurement Uncertainty

Parameter	Uncertainty
Radio Frequency	$\pm 1 \times 10^{-6}$
RF Power	$\pm 1.0$ dB
RF Power Density	$\pm 2.2$ dB
Radiated Spurious Emissions test	$\pm 5.03$ dB (30M~1000MHz)
	$\pm 5.47$ dB (1000M~25000MHz)
Conducted Spurious Emissions test	$\pm 3.64$ dB (AC mains 150KHz~30MHz)

## 6 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	Pass
Conducted Spurious emissions	15.247(d)	Pass
Conducted Emissions	15.207(a)	Pass
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
RF Exposure	1.1307(b)(1)	Pass
Note: Pass=Compliance; NC=Not Compliance; NT=Not Tested; N/A=Not Applicable.		

## 7 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 (dB $\mu$ V)	
	Qsi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	50	60
5 to 30	60	50

### 7.1 E.U.T. Operation

Operating Environment :

Temperature: 21.5 °C

Humidity: 51.9 % RH

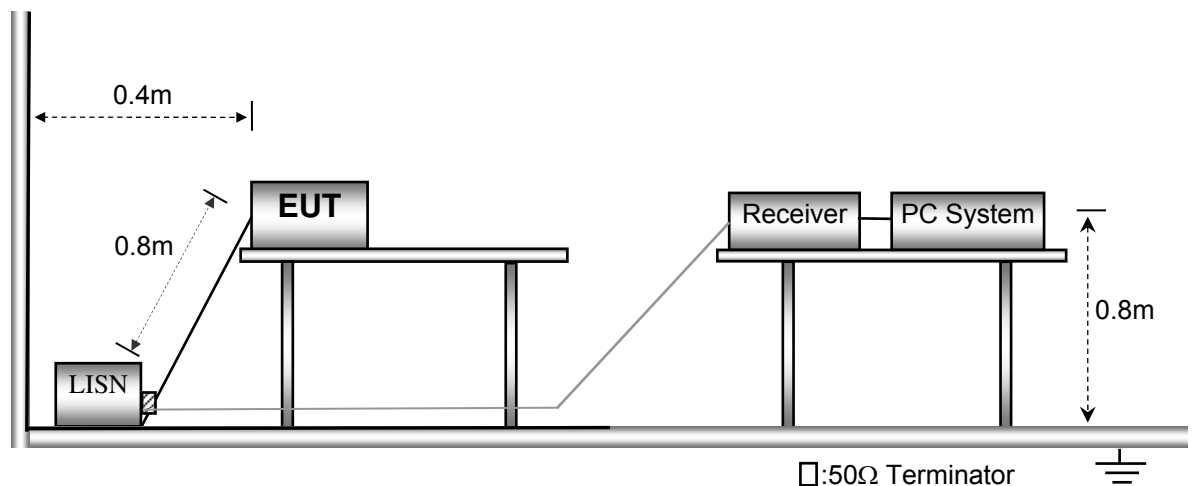
Atmospheric Pressure: 101.2kPa

EUT Operation :

The test was performed in Wi-Fi Transmitting mode, the worst data (802.11 b mode low channel) were shown in the report.

### 7.2 EUT Setup

The conducted emission tests were performed using the setup accordance with the ANSI C63.10:2013.



### 7.3 Measurement Description

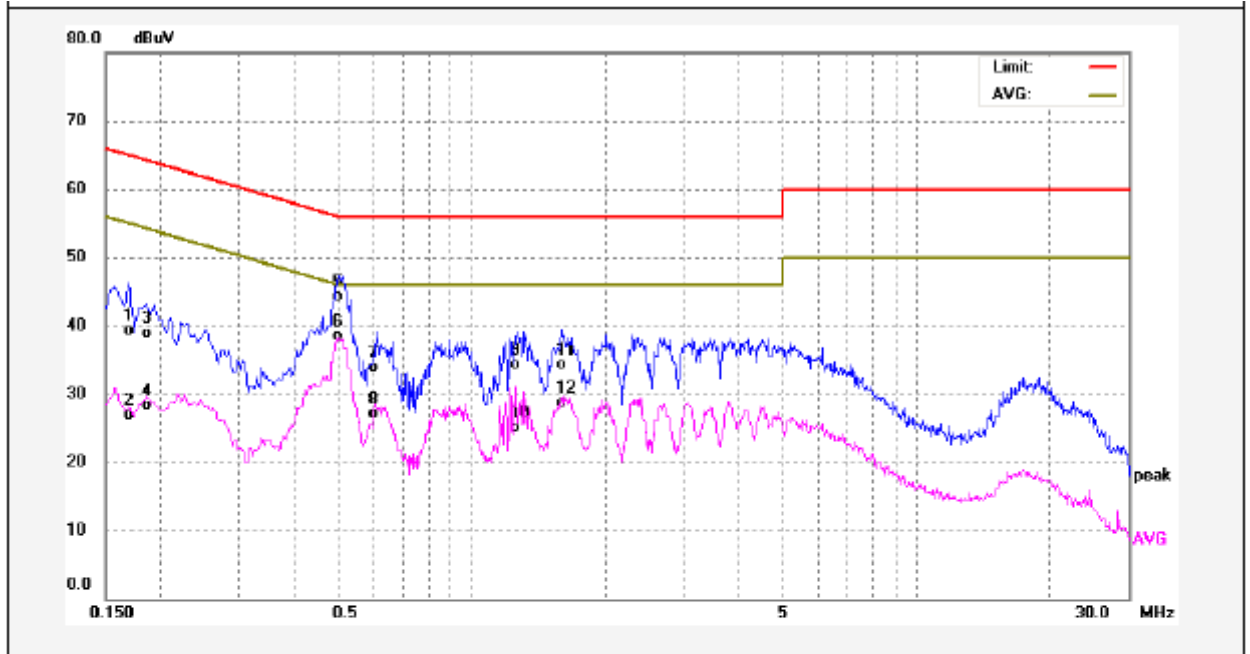
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

### 7.4 Conducted Emission Test Result

802.11 b mode low channel

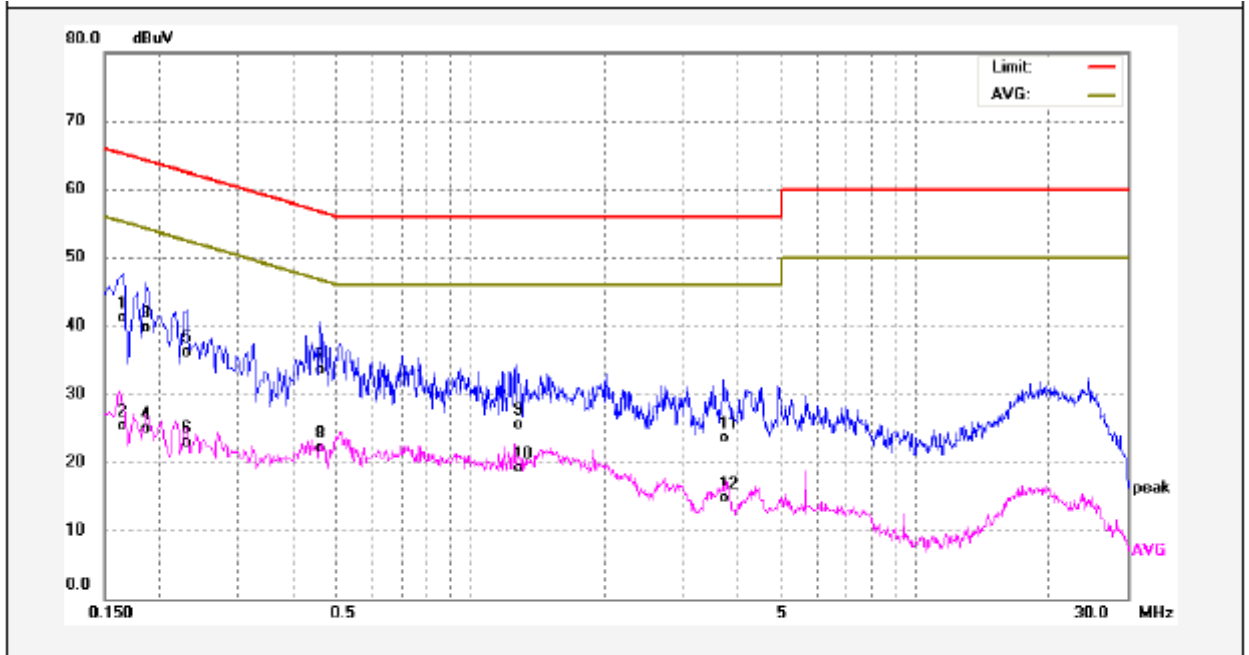
An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1700	39.25	0.00	39.25	64.96	-25.71	QP	
2	0.1700	26.82	0.00	26.82	54.96	-28.14	AVG	
3	0.1860	38.88	0.00	38.88	64.21	-25.33	QP	
4	0.1860	28.28	0.00	28.28	54.21	-25.93	AVG	
5	0.5060	44.29	0.00	44.29	56.00	-11.71	QP	
6	0.5060	38.54	0.00	38.54	46.00	-7.46	AVG	
7	0.6100	33.82	0.00	33.82	56.00	-22.18	QP	
8	0.6100	27.19	0.00	27.19	46.00	-18.81	AVG	
9	1.2660	34.39	0.00	34.39	56.00	-21.61	QP	
10	1.2660	25.05	0.00	25.05	46.00	-20.95	AVG	
11	1.5980	34.30	0.00	34.30	56.00	-21.70	QP	
12	1.5980	28.68	0.00	28.68	46.00	-17.32	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1660	41.17	0.00	41.17	65.15	-23.98	QP	
2	0.1660	25.37	0.00	25.37	55.15	-29.78	AVG	
3	0.1860	39.75	0.00	39.75	64.21	-24.46	QP	
4	0.1860	24.88	0.00	24.88	54.21	-29.33	AVG	
5	0.2300	36.03	0.00	36.03	62.45	-26.42	QP	
6	0.2300	22.87	0.00	22.87	52.45	-29.58	AVG	
7	0.4580	33.44	0.00	33.44	56.73	-23.29	QP	
8	0.4580	22.04	0.00	22.04	46.73	-24.69	AVG	
9	1.2700	25.59	0.00	25.59	56.00	-30.41	QP	
10	1.2700	19.14	0.00	19.14	46.00	-26.86	AVG	
11	3.7180	23.48	0.00	23.48	56.00	-32.52	QP	
12	3.7180	14.64	0.00	14.64	46.00	-31.36	AVG	

## 8 Radiated Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

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

### 8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

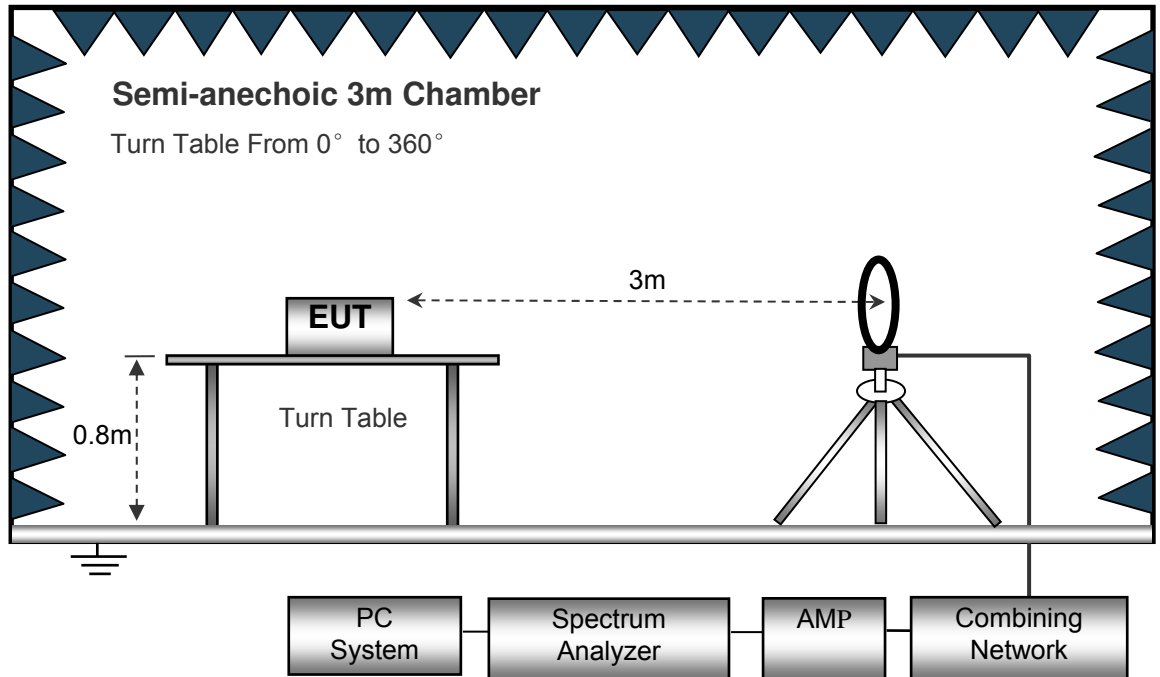
EUT Operation :

The test was performed in Wi-Fi Transmitting mode.

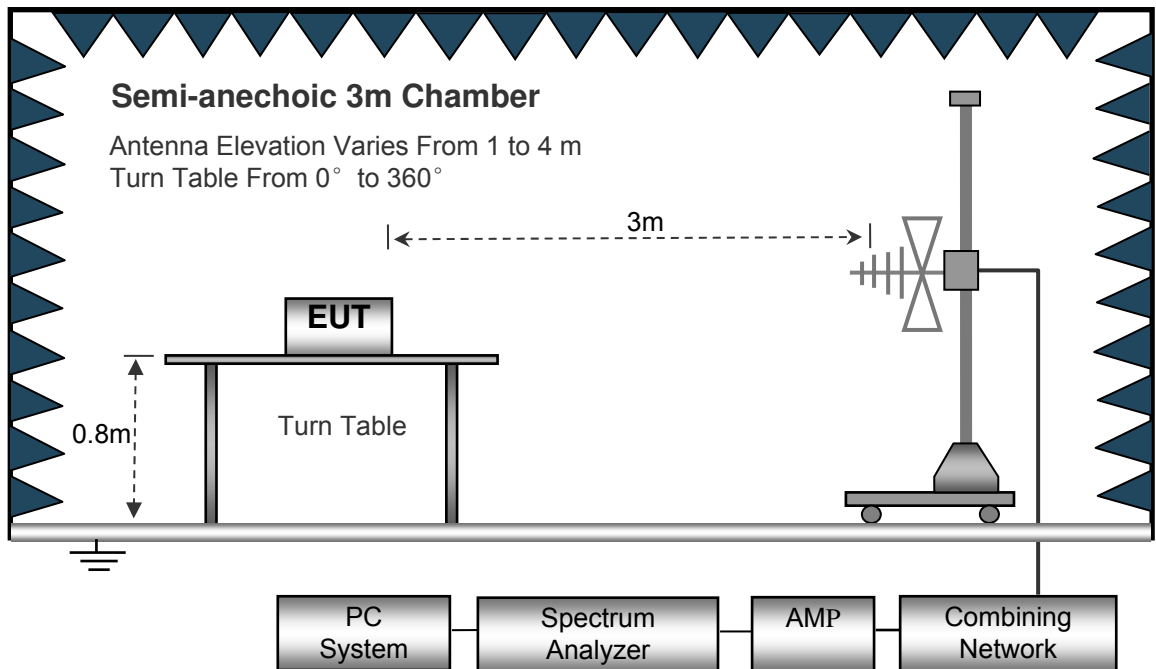
## 8.2 Test Setup

The radiated emission tests were performed in the 3m Semi- Anechoic Chamber test site, using the setup accordance with the ANSI C63.10:2013.

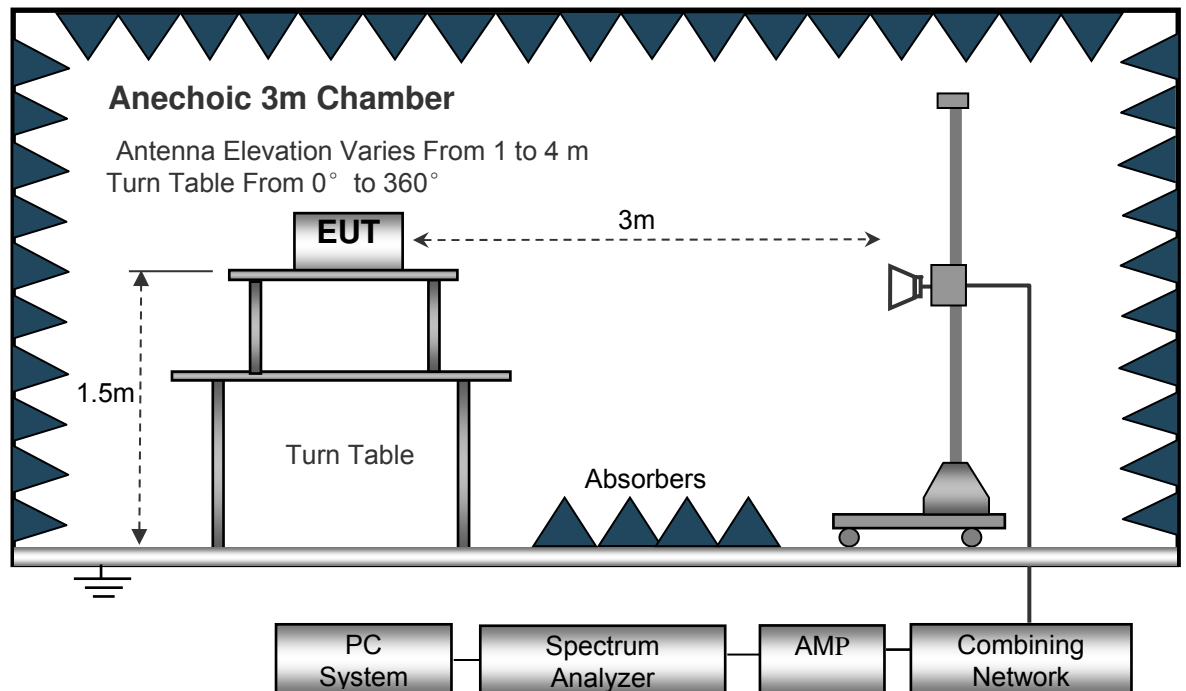
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



### 8.3 Spectrum Analyzer Setup

Below 30MHz

Sweep Speed ..... Auto  
 IF Bandwidth..... 10kHz  
 Video Bandwidth..... 10kHz  
 Resolution Bandwidth..... 10kHz

30MHz ~ 1GHz

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



## 8.4 Test Procedure

1. The EUT is placed on a turntable. For below 1GHz, the EUT is 0.8m above ground plane;  
For above 1GHz, the EUT is 1.5m above ground plane.
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 X axis,so the worst data were shown as follow.
8. A 2.4GHz high -pass filter is used during radiated emissions above 1GHz measurement.

## 8.5 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:

$$\text{Corr. Ampl.} = \text{Indicated Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Amplifier Gain}$$

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:

$$\text{Margin} = \text{Corr. Ampl.} - \text{Limit}$$

## 8.6 Summary of Test Results

### Test Frequency : 9 kHz to 30 MHz

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

### Test Frequency : 30 MHz ~ 18 GHz

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11b: Low Channel 2412MHz									
223.45	41.05	QP	346	1.8	H	-11.62	29.43	46.00	-16.57
223.45	36.26	QP	135	1.1	V	-11.62	24.64	46.00	-21.36
4824.00	50.44	PK	294	1.2	V	-1.06	49.38	74.00	-24.62
4824.00	46.32	Ave	294	1.2	V	-1.06	45.26	54.00	-8.74
7236.00	41.08	PK	160	1.2	H	1.33	42.41	74.00	-31.59
7236.00	41.96	Ave	160	1.2	H	1.33	43.29	54.00	-10.71
2311.93	45.85	PK	239	1.2	V	-13.19	32.66	74.00	-41.34
2311.93	38.81	Ave	239	1.2	V	-13.19	25.62	54.00	-28.38
2370.08	42.78	PK	352	1.9	H	-13.14	29.64	74.00	-44.36
2370.08	37.98	Ave	352	1.9	H	-13.14	24.84	54.00	-29.16
2493.86	44.29	PK	335	1.8	V	-13.08	31.21	74.00	-42.79
2493.86	38.07	Ave	335	1.8	V	-13.08	24.99	54.00	-29.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11b: Middle Channel 2437MHz									
223.45	41.58	QP	32	1.9	H	-11.62	29.96	46.00	-16.04
223.45	36.09	QP	143	1.3	V	-11.62	24.47	46.00	-21.53
4874.00	50.54	PK	178	1.6	V	-0.62	49.92	74.00	-24.08
4874.00	46.53	Ave	178	1.6	V	-0.62	45.91	54.00	-8.09
7311.00	42.45	PK	13	1.8	H	2.21	44.66	74.00	-29.34
7311.00	40.78	Ave	13	1.8	H	2.21	42.99	54.00	-11.01
2321.86	46.77	PK	107	1.3	V	-13.19	33.58	74.00	-40.42
2321.86	39.07	Ave	107	1.3	V	-13.19	25.88	54.00	-28.12
2369.92	42.81	PK	320	1.2	H	-13.14	29.67	74.00	-44.33
2369.92	38.56	Ave	320	1.2	H	-13.14	25.42	54.00	-28.58
2499.25	43.07	PK	12	1.8	V	-13.08	29.99	74.00	-44.01
2499.25	37.07	Ave	12	1.8	V	-13.08	23.99	54.00	-30.01

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11b: High Channel 2462MHz									
223.45	40.55	QP	355	1.8	H	-11.62	28.93	46.00	-17.07
223.45	36.79	QP	347	1.2	V	-11.62	25.17	46.00	-20.83
4924.00	50.85	PK	98	1.6	V	-0.24	50.61	74.00	-23.39
4924.00	46.25	Ave	98	1.6	V	-0.24	46.01	54.00	-7.99
7386.00	43.93	PK	240	1.5	H	2.84	46.77	74.00	-27.23
7386.00	39.96	Ave	240	1.5	H	2.84	42.80	54.00	-11.20
2338.54	46.69	PK	344	1.8	V	-13.19	33.50	74.00	-40.50
2338.54	38.99	Ave	344	1.8	V	-13.19	25.80	54.00	-28.20
2373.24	43.25	PK	35	1.8	H	-13.14	30.11	74.00	-43.89
2373.24	38.78	Ave	35	1.8	H	-13.14	25.64	54.00	-28.36
2498.47	44.35	PK	168	1.1	V	-13.08	31.27	74.00	-42.73
2498.47	38.51	Ave	168	1.1	V	-13.08	25.43	54.00	-28.57

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11g: Low Channel 2412MHz									
223.45	40.94	QP	110	1.5	H	-11.62	29.32	46.00	-16.68
223.45	35.96	QP	284	1.1	V	-11.62	24.34	46.00	-21.66
4824.00	51.80	PK	310	1.9	V	-1.06	50.74	74.00	-23.26
4824.00	44.99	Ave	310	1.9	V	-1.06	43.93	54.00	-10.07
7236.00	42.62	PK	22	1.8	H	1.33	43.95	74.00	-30.05
7236.00	38.77	Ave	22	1.8	H	1.33	40.10	54.00	-13.90
2323.97	46.94	PK	122	1.9	V	-13.19	33.75	74.00	-40.25
2323.97	39.54	Ave	122	1.9	V	-13.19	26.35	54.00	-27.65
2366.73	42.74	PK	296	1.2	H	-13.14	29.60	74.00	-44.40
2366.73	36.28	Ave	296	1.2	H	-13.14	23.14	54.00	-30.86
2493.83	44.74	PK	305	1.9	V	-13.08	31.66	74.00	-42.34
2493.83	37.73	Ave	305	1.9	V	-13.08	24.65	54.00	-29.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11g: Middle Channel 2437MHz									
223.45	41.60	QP	59	1.4	H	-11.62	29.98	46.00	-16.02
223.45	36.51	QP	110	1.3	V	-11.62	24.89	46.00	-21.11
4874.00	50.35	PK	75	1.6	V	-0.62	49.73	74.00	-24.27
4874.00	45.52	Ave	75	1.6	V	-0.62	44.90	54.00	-9.10
7311.00	42.43	PK	158	1.2	H	2.21	44.64	74.00	-29.36
7311.00	37.60	Ave	158	1.2	H	2.21	39.81	54.00	-14.19
2336.23	45.33	PK	137	1.9	V	-13.19	32.14	74.00	-41.86
2336.23	39.73	Ave	137	1.9	V	-13.19	26.54	54.00	-27.46
2382.26	43.44	PK	111	1.3	H	-13.14	30.30	74.00	-43.70
2382.26	37.57	Ave	111	1.3	H	-13.14	24.43	54.00	-29.57
2489.66	43.82	PK	44	1.4	V	-13.08	30.74	74.00	-43.26
2489.66	36.64	Ave	44	1.4	V	-13.08	23.56	54.00	-30.44

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
11g: High Channel 2462MHz									
223.45	42.40	QP	7	1.3	H	-11.62	30.78	46.00	-15.22
223.45	37.58	QP	130	1.8	V	-11.62	25.96	46.00	-20.04
4924.00	48.91	PK	305	1.1	V	-0.24	48.67	74.00	-25.33
4924.00	44.53	Ave	305	1.1	V	-0.24	44.29	54.00	-9.71
7386.00	41.69	PK	199	1.4	H	2.84	44.53	74.00	-29.47
7386.00	36.43	Ave	199	1.4	H	2.84	39.27	54.00	-14.73
2333.06	45.46	PK	131	1.4	V	-13.19	32.27	74.00	-41.73
2333.06	37.23	Ave	131	1.4	V	-13.19	24.04	54.00	-29.96
2376.30	43.42	PK	299	1.5	H	-13.14	30.28	74.00	-43.72
2376.30	37.47	Ave	299	1.5	H	-13.14	24.33	54.00	-29.67
2484.03	43.65	PK	160	1.2	V	-13.08	30.57	74.00	-43.43
2484.03	38.85	Ave	160	1.2	V	-13.08	25.77	54.00	-28.23

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
n20: Low Channel 2412MHz									
223.45	41.19	QP	235	1.8	H	-11.62	29.57	46.00	-16.43
223.45	38.89	QP	41	1.2	V	-11.62	27.27	46.00	-18.73
4824.00	48.84	PK	253	2.0	V	-1.06	47.78	74.00	-26.22
4824.00	44.73	Ave	253	2.0	V	-1.06	43.67	54.00	-10.33
7236.00	42.98	PK	260	1.5	H	1.33	44.31	74.00	-29.69
7236.00	36.65	Ave	260	1.5	H	1.33	37.98	54.00	-16.02
2312.18	45.62	PK	93	2.0	V	-13.19	32.43	74.00	-41.57
2312.18	39.16	Ave	93	2.0	V	-13.19	25.97	54.00	-28.03
2376.44	42.87	PK	185	1.1	H	-13.14	29.73	74.00	-44.27
2376.44	37.80	Ave	185	1.1	H	-13.14	24.66	54.00	-29.34
2494.57	43.00	PK	276	1.1	V	-13.08	29.92	74.00	-44.08
2494.57	37.32	Ave	276	1.1	V	-13.08	24.24	54.00	-29.76



Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
n20: Middle Channel 2437MHz									
223.45	42.49	QP	69	1.5	H	-11.62	30.87	46.00	-15.13
223.45	38.02	QP	42	1.3	V	-11.62	26.40	46.00	-19.60
4874.00	49.39	PK	109	1.1	V	-0.62	48.77	74.00	-25.23
4874.00	45.22	Ave	109	1.1	V	-0.62	44.60	54.00	-9.40
7311.00	42.65	PK	359	1.5	H	2.21	44.86	74.00	-29.14
7311.00	37.79	Ave	359	1.5	H	2.21	40.00	54.00	-14.00
2340.07	45.12	PK	23	1.7	V	-13.19	31.93	74.00	-42.07
2340.07	37.91	Ave	23	1.7	V	-13.19	24.72	54.00	-29.28
2355.20	44.18	PK	96	1.9	H	-13.14	31.04	74.00	-42.96
2355.20	37.86	Ave	96	1.9	H	-13.14	24.72	54.00	-29.28
2497.35	44.70	PK	109	1.6	V	-13.08	31.62	74.00	-42.38
2497.35	36.73	Ave	109	1.6	V	-13.08	23.65	54.00	-30.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
n20: High Channel 2462MHz									
223.45	43.10	QP	258	1.2	H	-11.62	31.48	46.00	-14.52
223.45	37.02	QP	39	1.8	V	-11.62	25.40	46.00	-20.60
4924.00	50.70	PK	66	1.7	V	-0.24	50.46	74.00	-23.54
4924.00	44.85	Ave	66	1.7	V	-0.24	44.61	54.00	-9.39
7386.00	43.20	PK	158	1.1	H	2.84	46.04	74.00	-27.96
7386.00	38.68	Ave	158	1.1	H	2.84	41.52	54.00	-12.48
2344.10	45.32	PK	92	1.4	V	-13.19	32.13	74.00	-41.87
2344.10	39.31	Ave	92	1.4	V	-13.19	26.12	54.00	-27.88
2374.27	42.18	PK	128	1.7	H	-13.14	29.04	74.00	-44.96
2374.27	38.71	Ave	128	1.7	H	-13.14	25.57	54.00	-28.43
2498.40	42.65	PK	168	2.0	V	-13.08	29.57	74.00	-44.43
2498.40	36.86	Ave	168	2.0	V	-13.08	23.78	54.00	-30.22

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
n40: Low Channel 2422MHz									
223.45	41.19	QP	235	1.8	H	-11.62	29.57	46.00	-16.43
223.45	38.89	QP	41	1.2	V	-11.62	27.27	46.00	-18.73
4824.00	48.84	PK	253	2.0	V	-1.06	47.78	74.00	-26.22
4824.00	44.73	Ave	253	2.0	V	-1.06	43.67	54.00	-10.33
7236.00	42.98	PK	260	1.5	H	1.33	44.31	74.00	-29.69
7236.00	36.65	Ave	260	1.5	H	1.33	37.98	54.00	-16.02
2312.18	45.62	PK	93	2.0	V	-13.19	32.43	74.00	-41.57
2312.18	39.16	Ave	93	2.0	V	-13.19	25.97	54.00	-28.03
2376.44	42.87	PK	185	1.1	H	-13.14	29.73	74.00	-44.27
2376.44	37.80	Ave	185	1.1	H	-13.14	24.66	54.00	-29.34
2494.57	43.00	PK	276	1.1	V	-13.08	29.92	74.00	-44.08
2494.57	37.32	Ave	276	1.1	V	-13.08	24.24	54.00	-29.76

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dB $\mu$ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB $\mu$ V/m)	(dB $\mu$ V/m)	(dB)
n40: Middle Channel 2437MHz									
223.45	42.49	QP	69	1.5	H	-11.62	30.87	46.00	-15.13
223.45	38.02	QP	42	1.3	V	-11.62	26.40	46.00	-19.60
4874.00	49.39	PK	109	1.1	V	-0.62	48.77	74.00	-25.23
4874.00	45.22	Ave	109	1.1	V	-0.62	44.60	54.00	-9.40
7311.00	42.65	PK	359	1.5	H	2.21	44.86	74.00	-29.14
7311.00	37.79	Ave	359	1.5	H	2.21	40.00	54.00	-14.00
2340.07	45.12	PK	23	1.7	V	-13.19	31.93	74.00	-42.07
2340.07	37.91	Ave	23	1.7	V	-13.19	24.72	54.00	-29.28
2355.20	44.18	PK	96	1.9	H	-13.14	31.04	74.00	-42.96
2355.20	37.86	Ave	96	1.9	H	-13.14	24.72	54.00	-29.28
2497.35	44.70	PK	109	1.6	V	-13.08	31.62	74.00	-42.38
2497.35	36.73	Ave	109	1.6	V	-13.08	23.65	54.00	-30.35

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
n40: High Channel 2462MHz									
223.45	43.10	QP	258	1.2	H	-11.62	31.48	46.00	-14.52
223.45	37.02	QP	39	1.8	V	-11.62	25.40	46.00	-20.60
4924.00	50.70	PK	66	1.7	V	-0.24	50.46	74.00	-23.54
4924.00	44.85	Ave	66	1.7	V	-0.24	44.61	54.00	-9.39
7386.00	43.20	PK	158	1.1	H	2.84	46.04	74.00	-27.96
7386.00	38.68	Ave	158	1.1	H	2.84	41.52	54.00	-12.48
2344.10	45.32	PK	92	1.4	V	-13.19	32.13	74.00	-41.87
2344.10	39.31	Ave	92	1.4	V	-13.19	26.12	54.00	-27.88
2374.27	42.18	PK	128	1.7	H	-13.14	29.04	74.00	-44.96
2374.27	38.71	Ave	128	1.7	H	-13.14	25.57	54.00	-28.43
2498.40	42.65	PK	168	2.0	V	-13.08	29.57	74.00	-44.43
2498.40	36.86	Ave	168	2.0	V	-13.08	23.78	54.00	-30.22

**Test Frequency: 18 GHz~25 GHz**

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

## 9 Band Edge Measurement

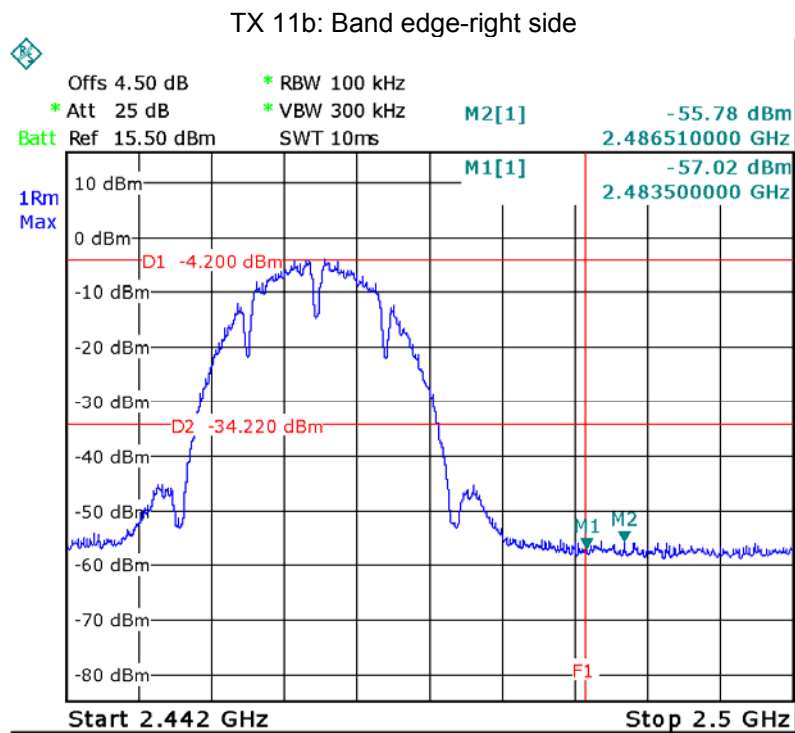
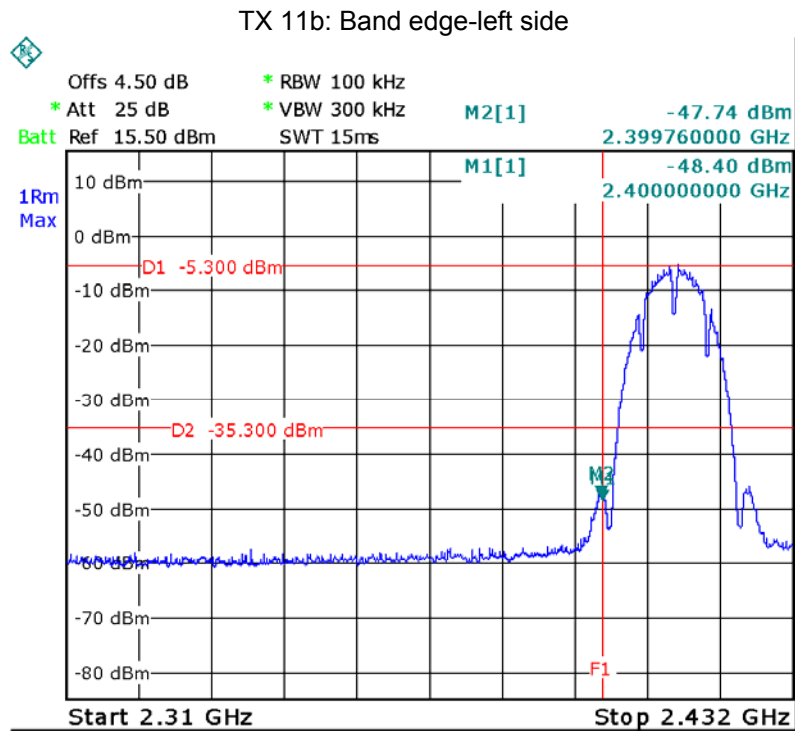
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance v04, April 5, 2017
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency 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 §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

### 9.1 Test Produce

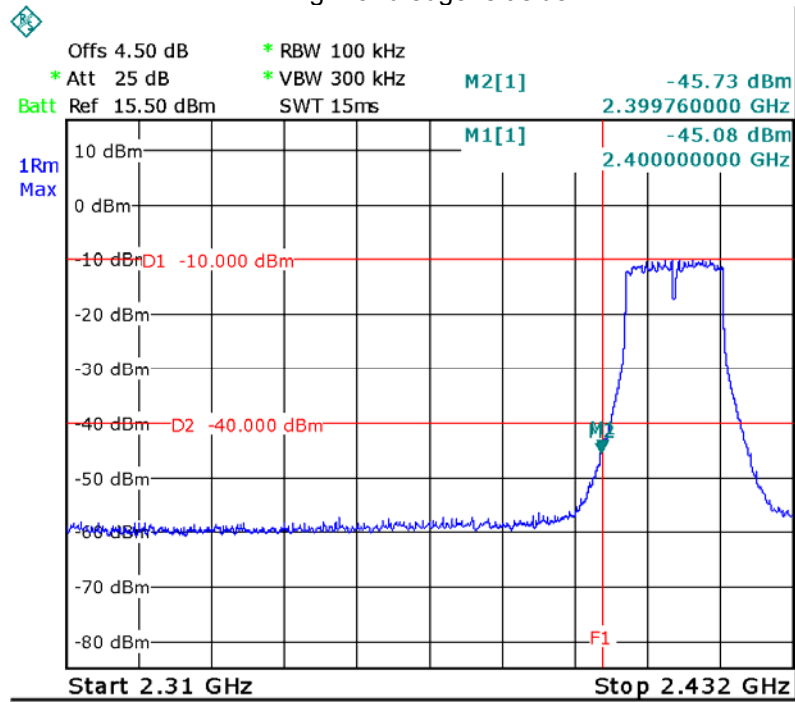
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then 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.

## 9.2 Test Result

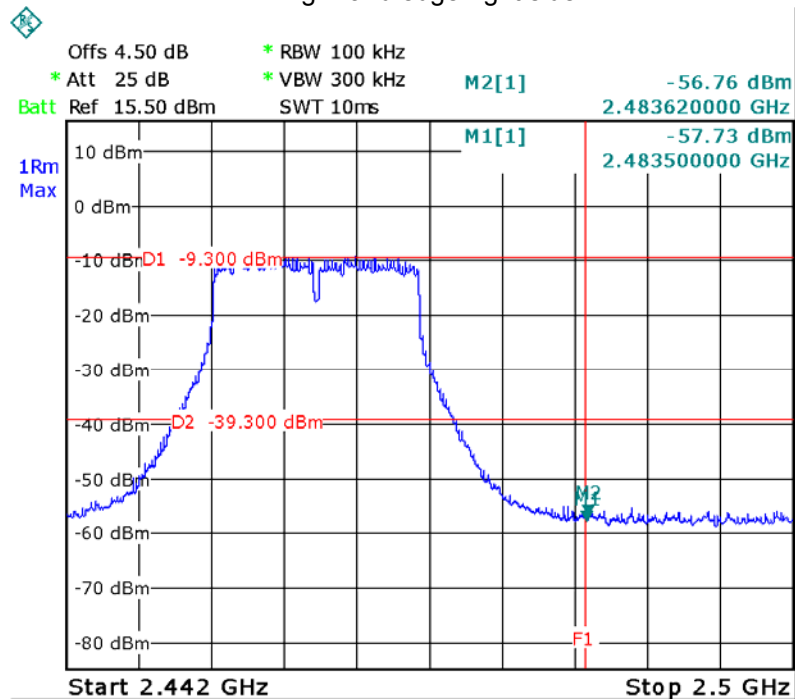
Test result plots shown as follows:



TX 11g: Band edge-left side

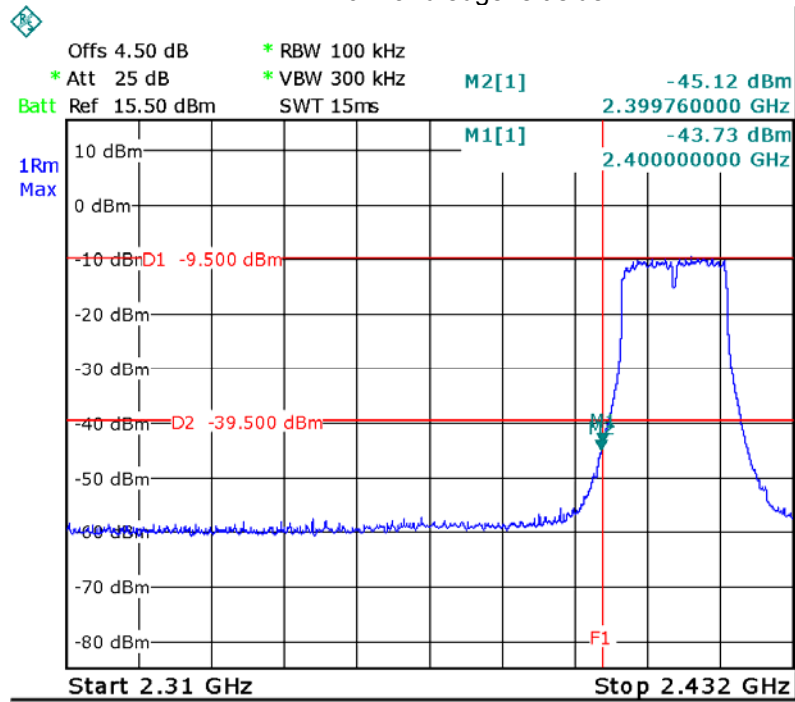


TX 11g: Band edge-right side

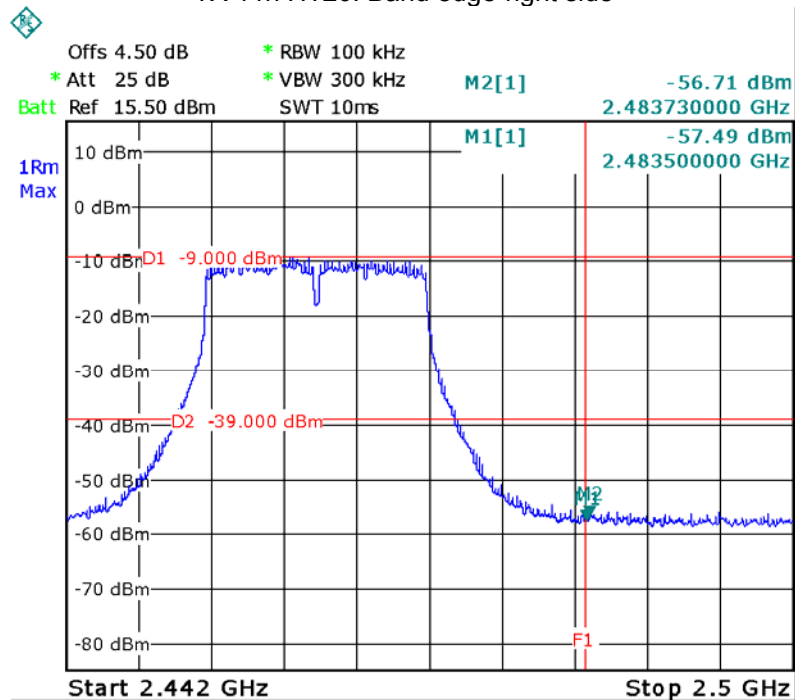




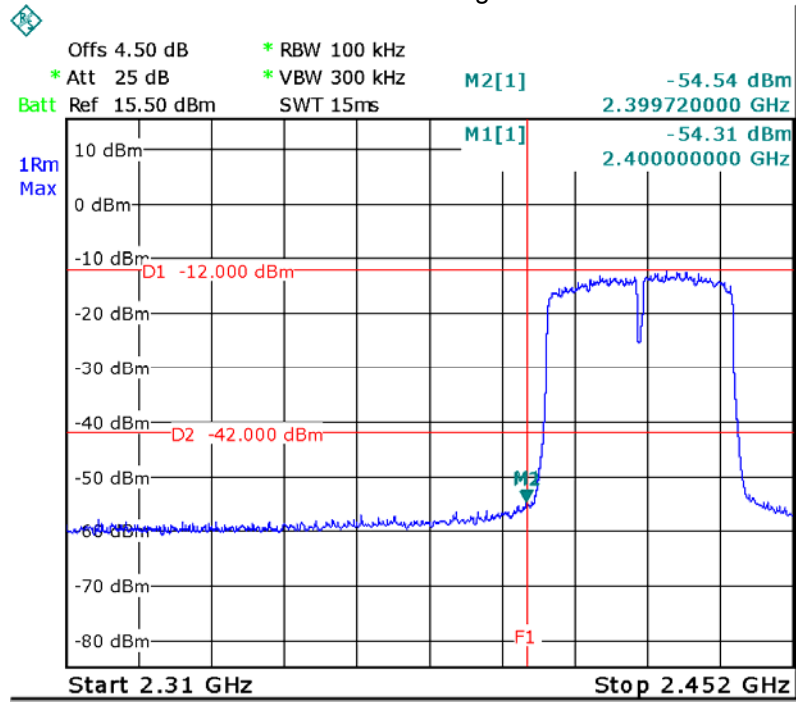
TX 11n HT20: Band edge-left side



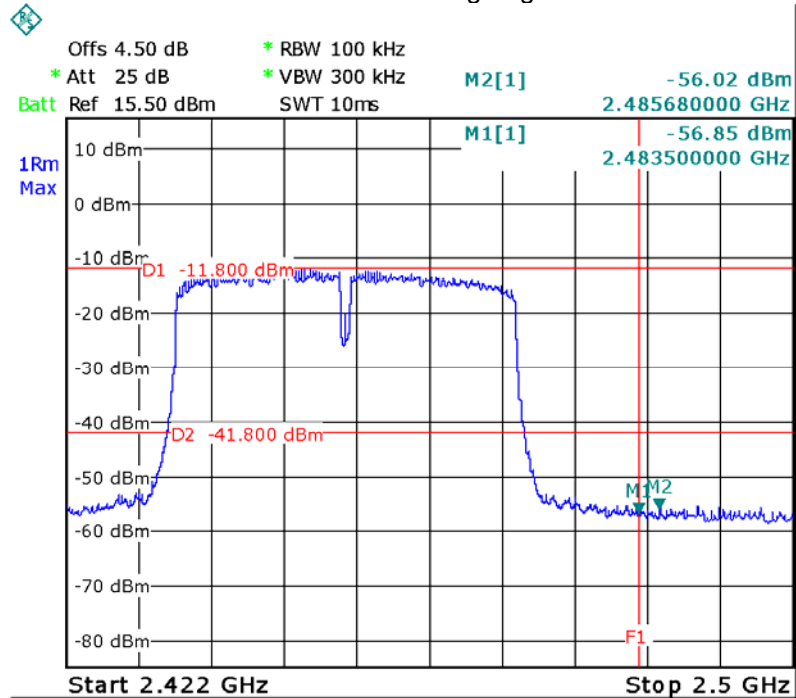
TX 11n HT20: Band edge-right side



TX 11n HT40: Band edge-left side



TX 11n HT40: Band edge-right side



## 10 Bandwidth Measurement

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

558074 D01 DTS Meas Guidance v04, April 5, 2017

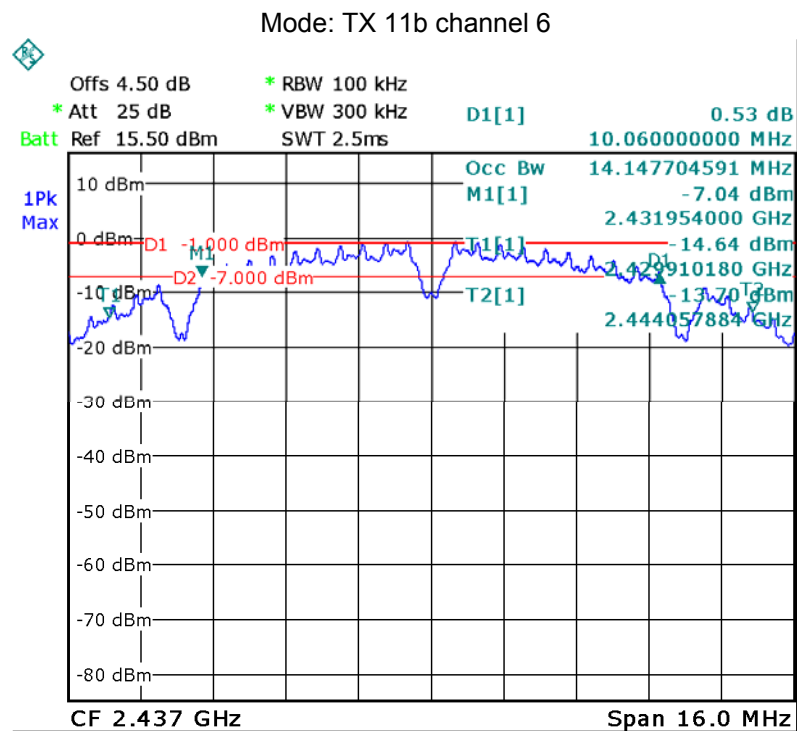
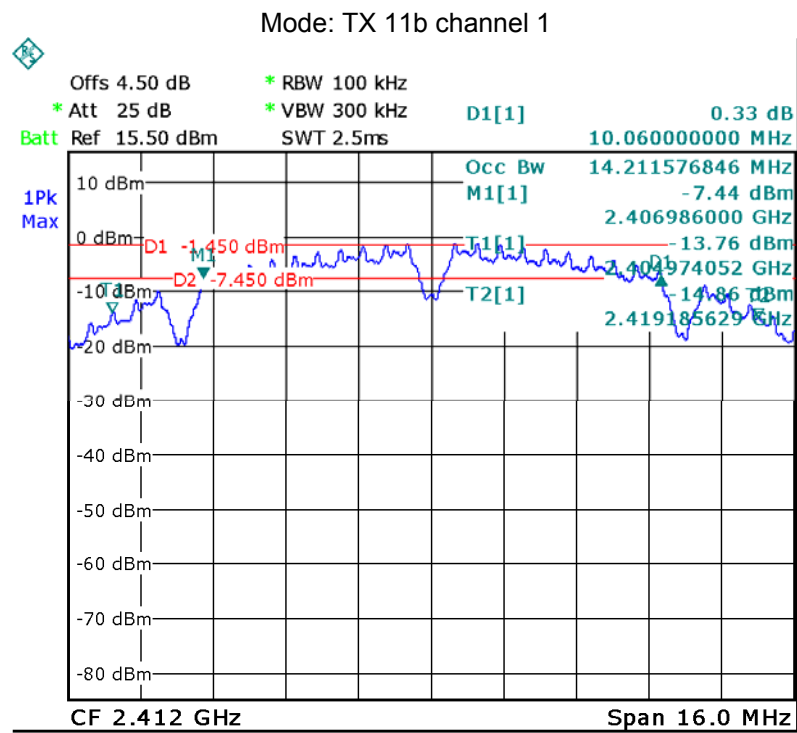
### 10.1 Test Procedure:

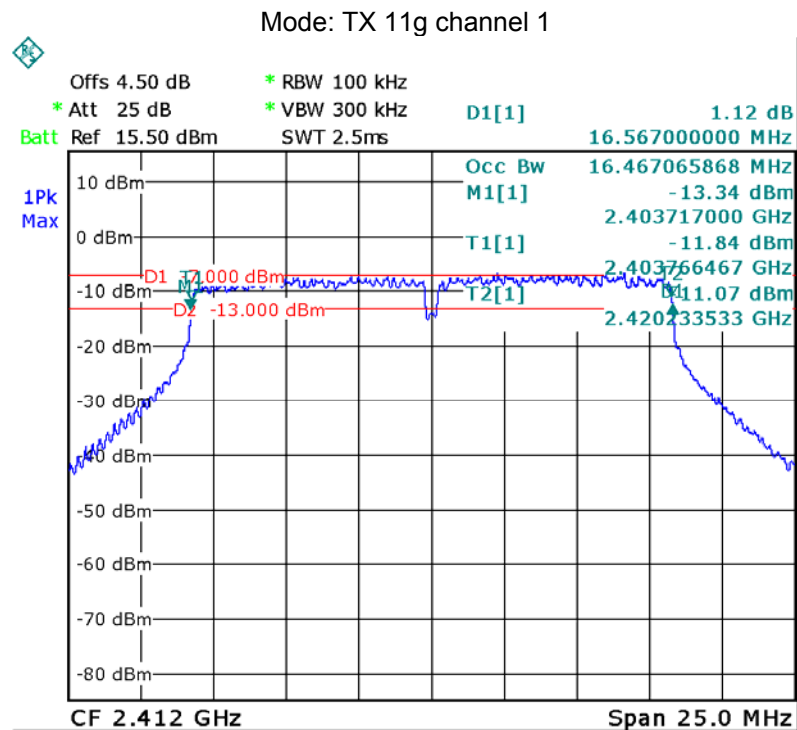
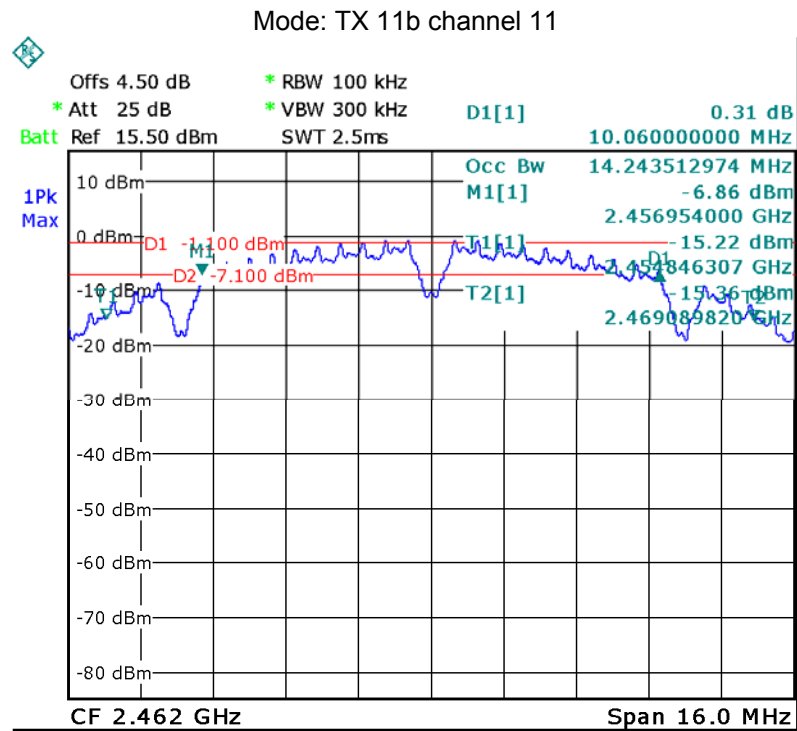
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

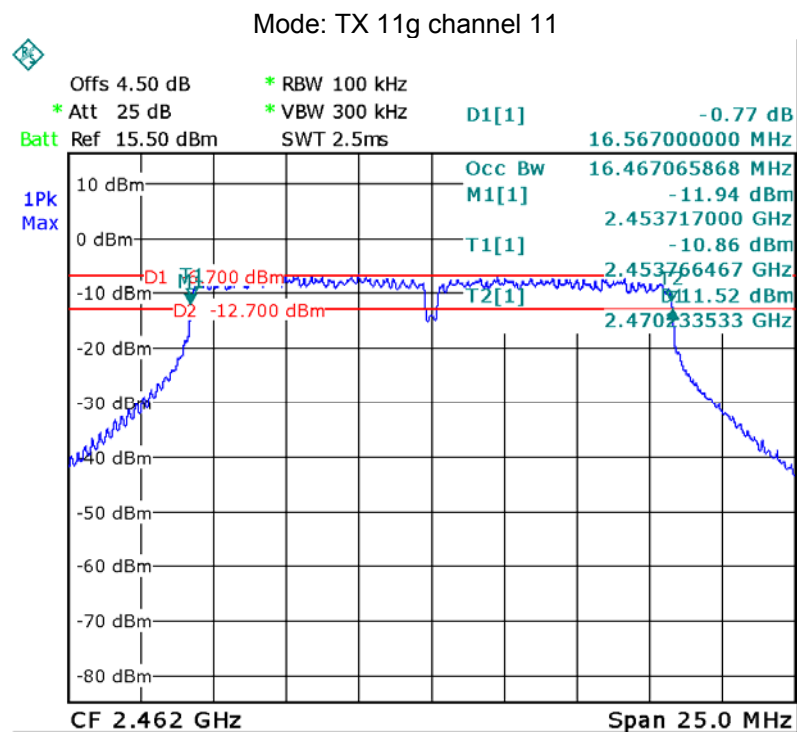
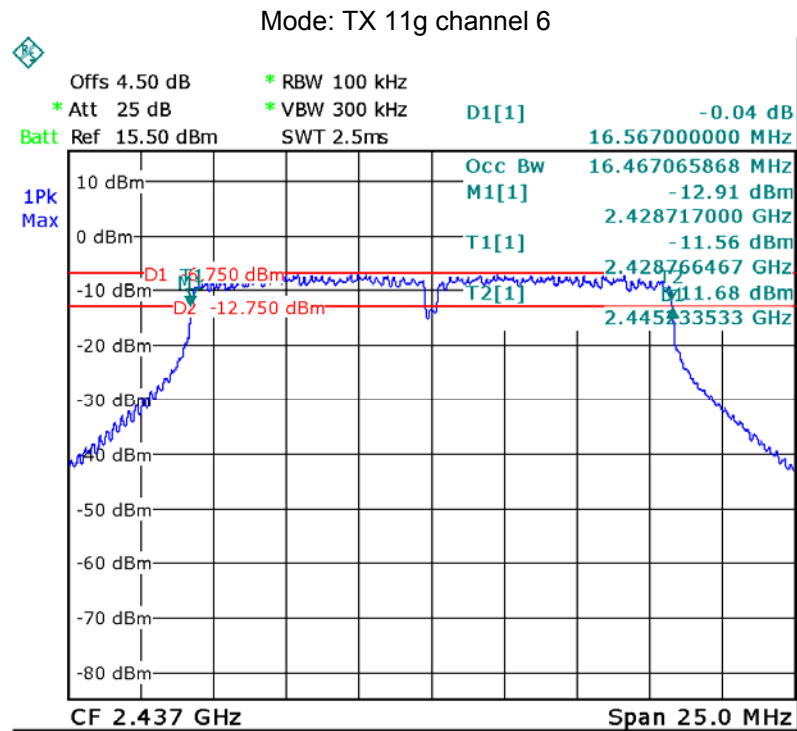
### 10.2 Test Result:

Operation mode	6dB Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	Channel 1	Channel 6	Channel 11
	10.060	10.060	10.060
TX 11g	Channel 1	Channel 6	Channel 11
	16.567	16.567	16.567
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.677	17.677	17.677
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.230	36.230	36.230

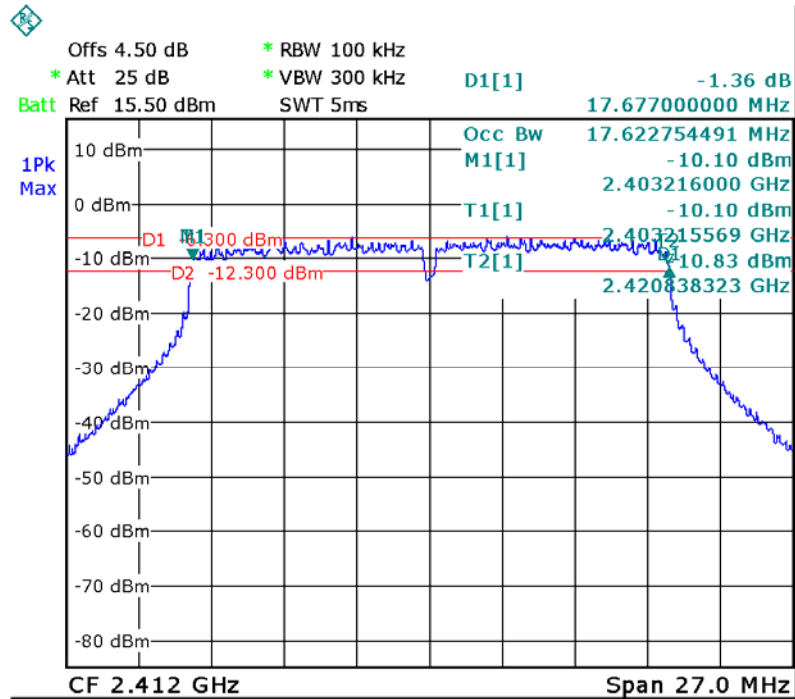
Test result plot as follows:



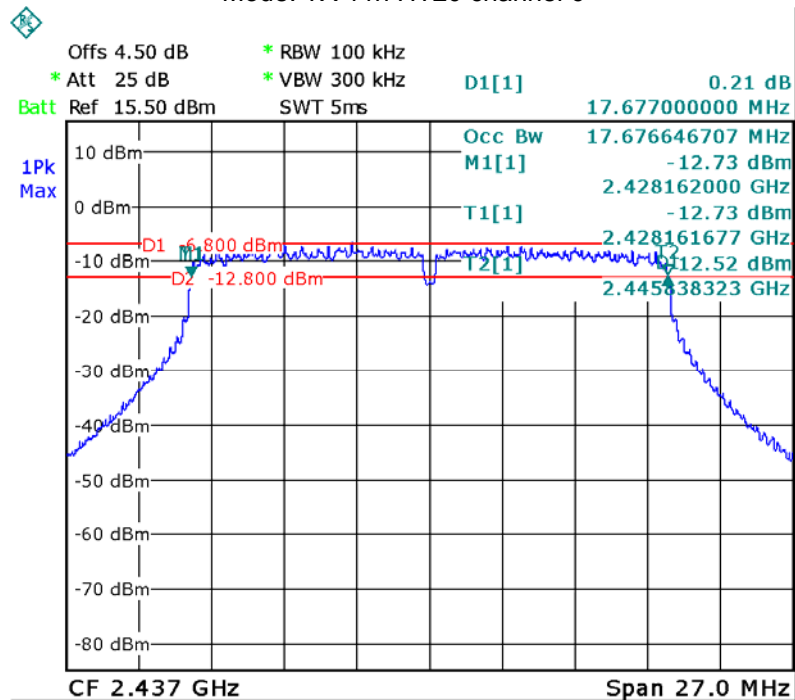




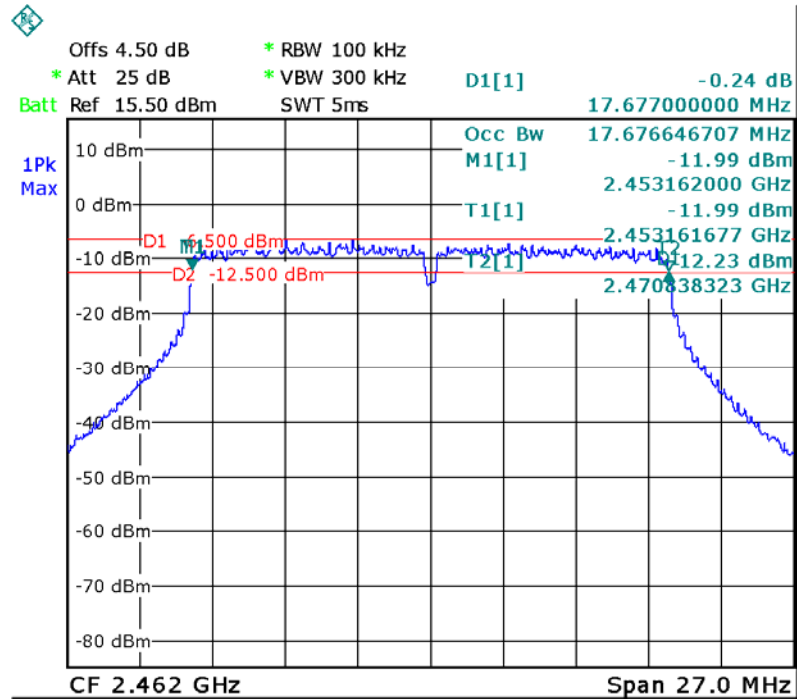
Mode: TX 11n HT20 channel 1



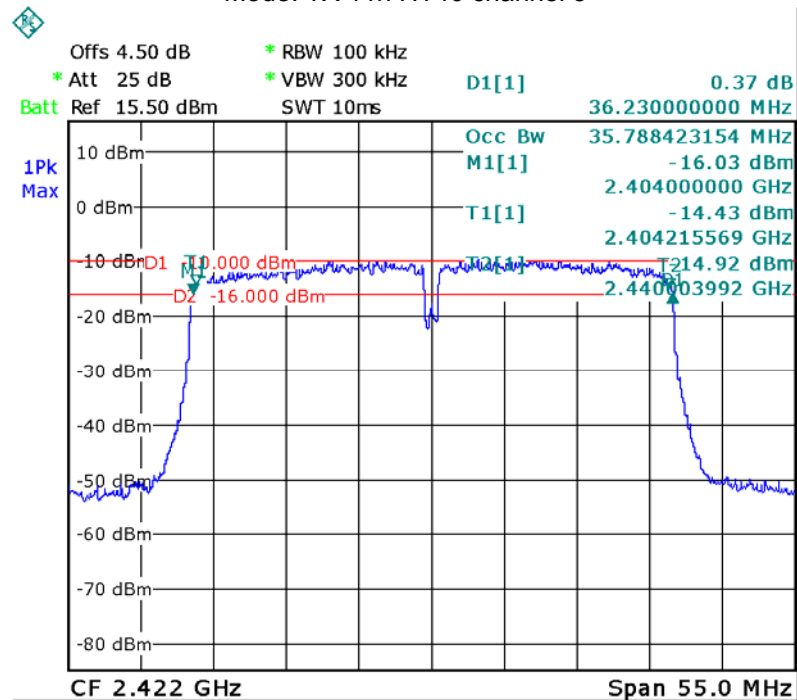
Mode: TX 11n HT20 channel 6



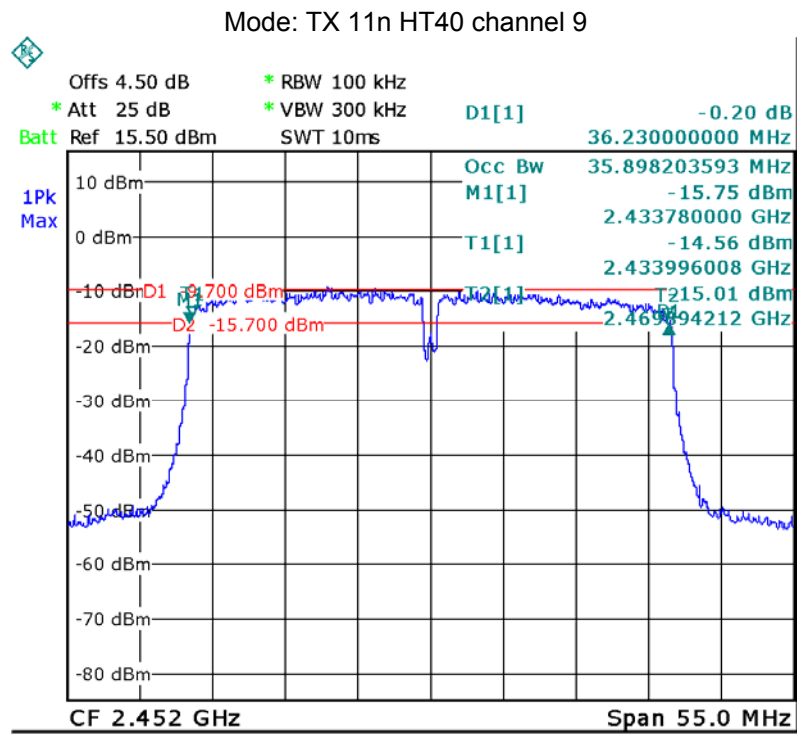
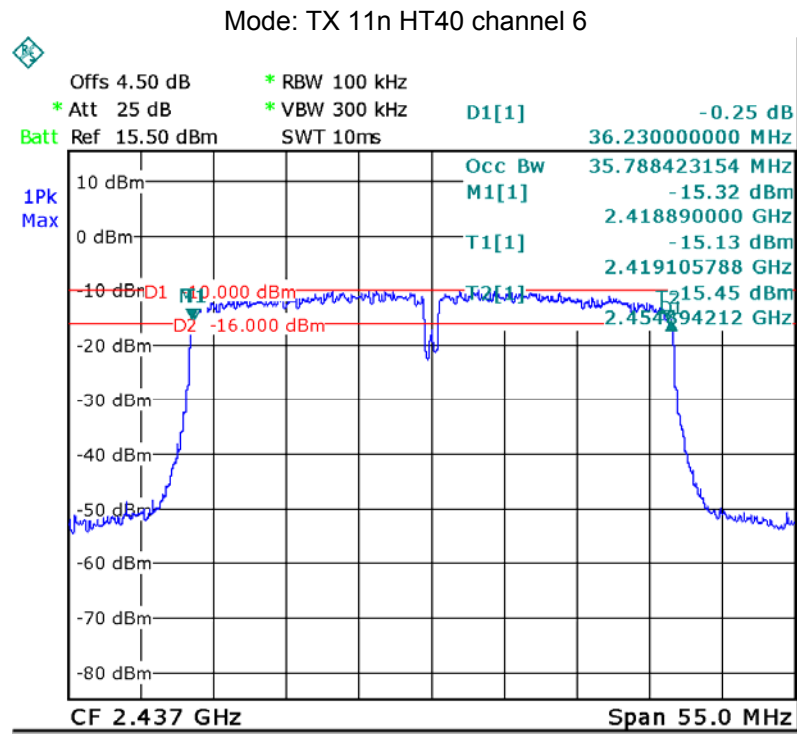
Mode: TX 11n HT20 channel 11



Mode: TX 11n HT40 channel 3







## 11 Maximum conducted (average) output power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v04, April 5, 2017

### 11.1 Test Procedure:

558074 D01 DTS Meas Guidance v04, April 5, 2017

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 = 1 MHz. VBW = 3 MHz. Sweep = auto; Detector Function = RMS, Set the span to fully encompass the DTS bandwidth.
3. Keep the EUT in transmitting at lowest, medium and highest channel individually. Record the max value.

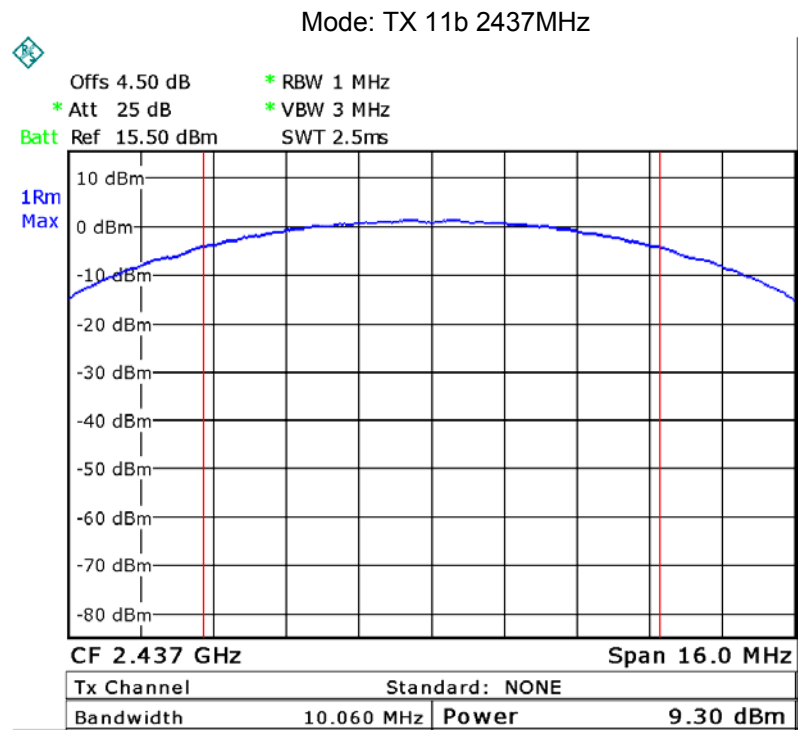
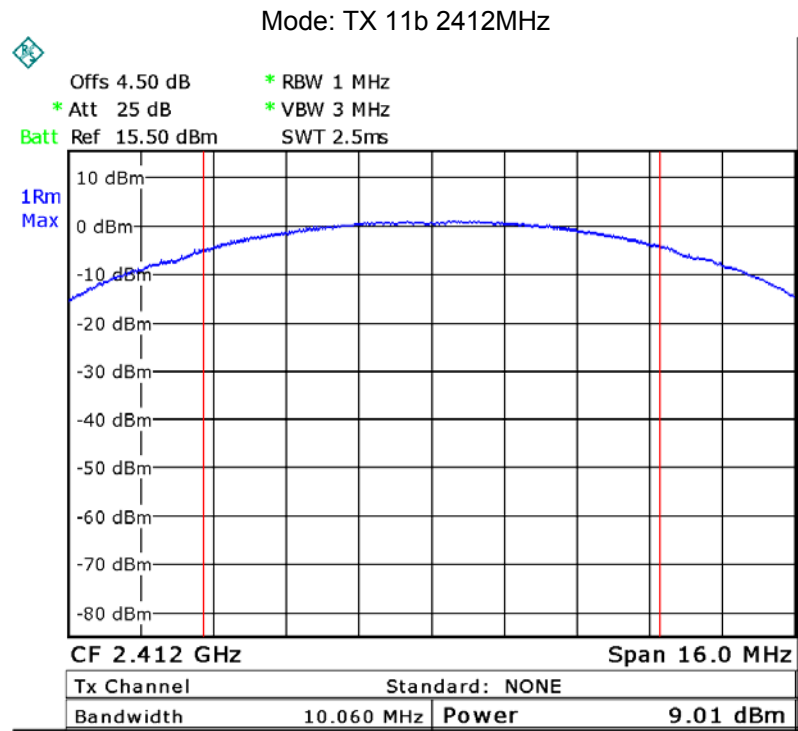
### 11.2 Test Result:

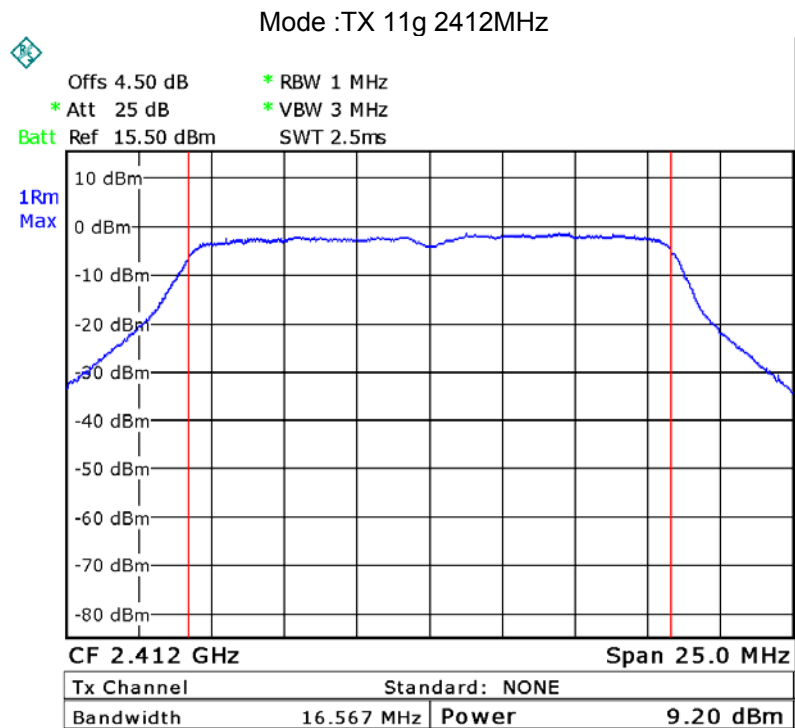
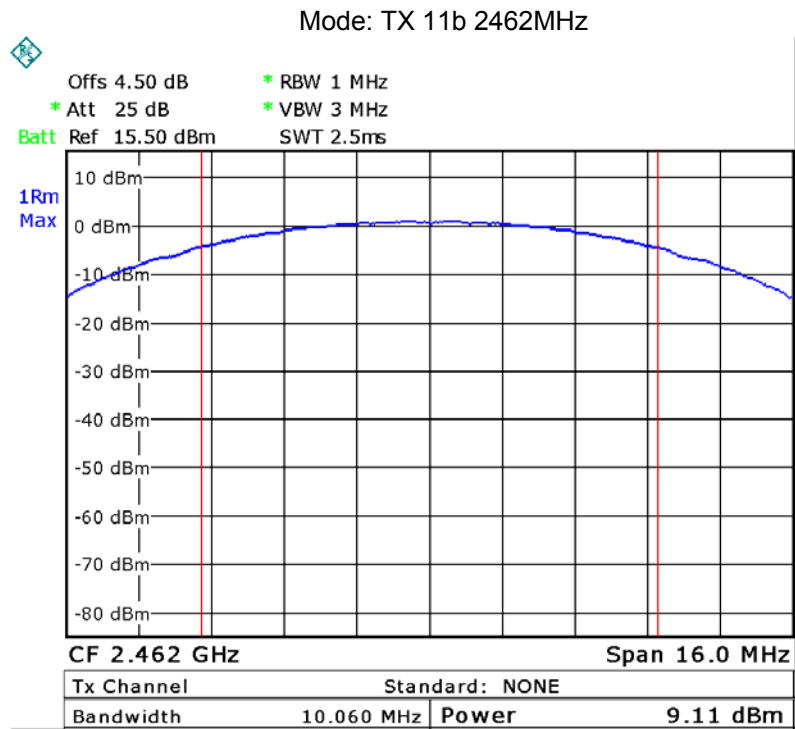
Test mode :TX 11b		
Maximum conducted (average) output power (dBm)		
2412MHz	2437MHz	2462MHz
9.01	9.30	9.11
Limit: 1W/30dBm		

Test mode :TX 11g		
Maximum conducted (average) output power (dBm)		
2412MHz	2437MHz	2462MHz
9.20	9.16	9.16
Limit: 1W/30dBm		

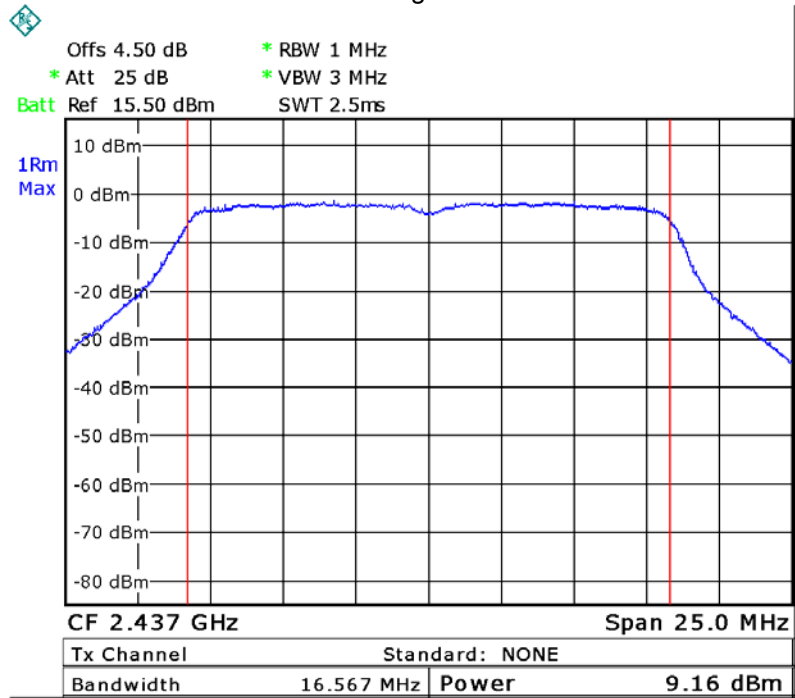
Test mode :TX 11n HT20		
Maximum conducted (average) output power (dBm)		
2412MHz	2437MHz	2462MHz
9.23	9.12	9.19
Limit: 1W/30dBm		

Test mode :TX 11n HT40		
Maximum conducted (average) output power (dBm)		
2422MHz	2437MHz	2452MHz
9.23	9.29	9.37
Limit: 1W/30dBm		

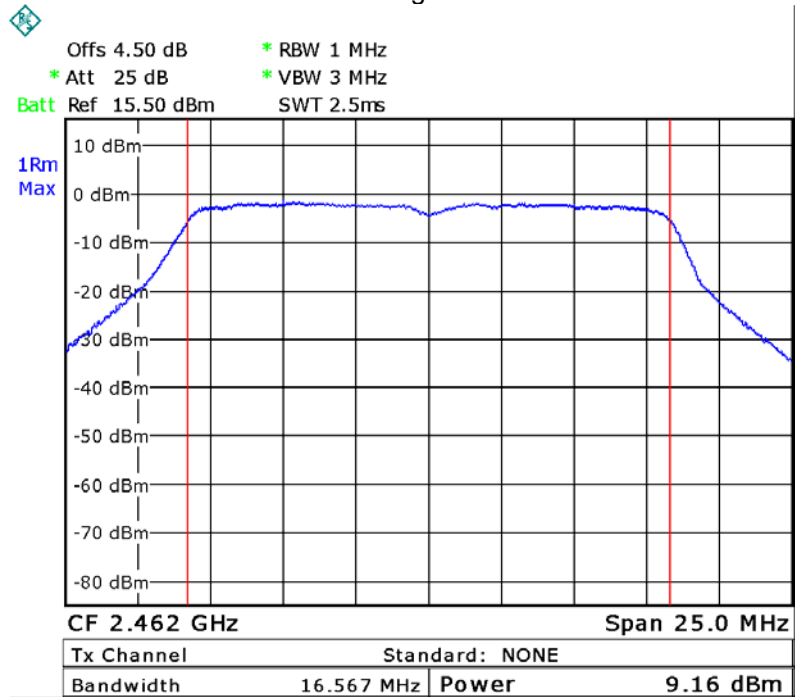




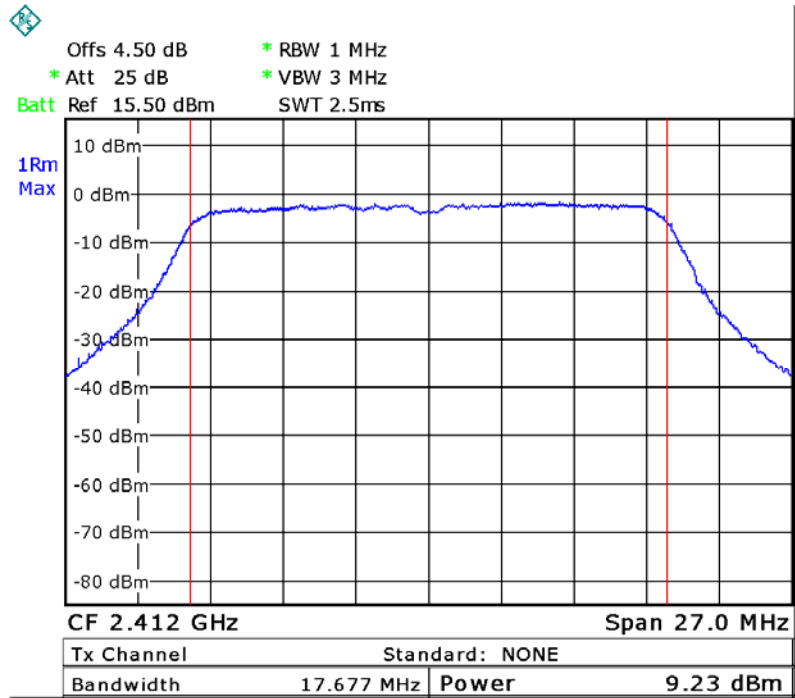
Mode :TX 11g 2437MHz



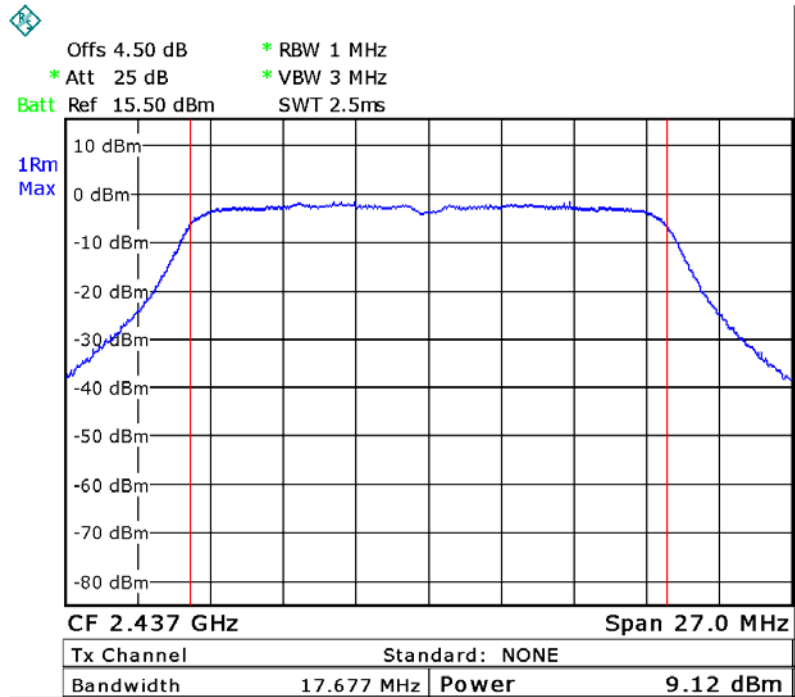
Mode :TX 11g 2462MHz



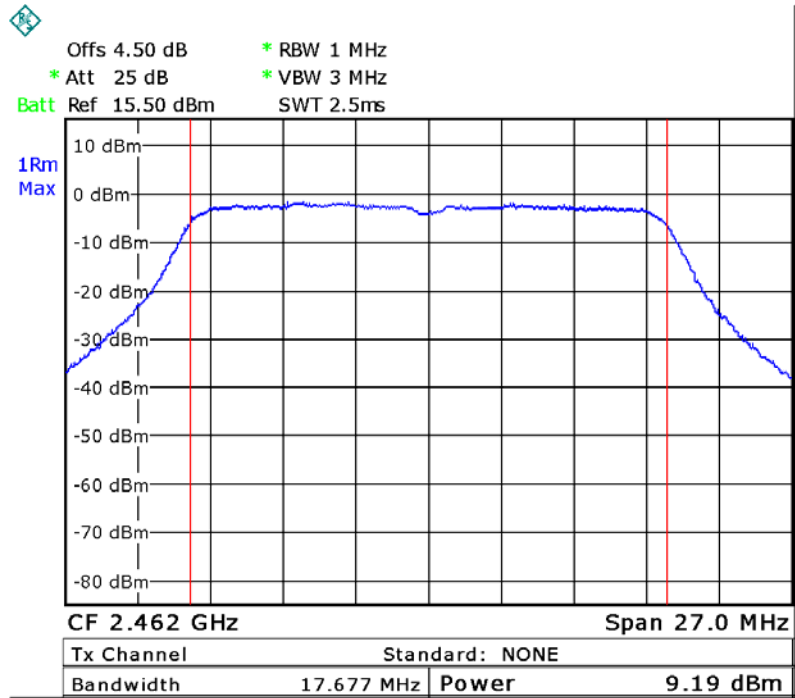
Mode: TX 11n HT20 2412MHz



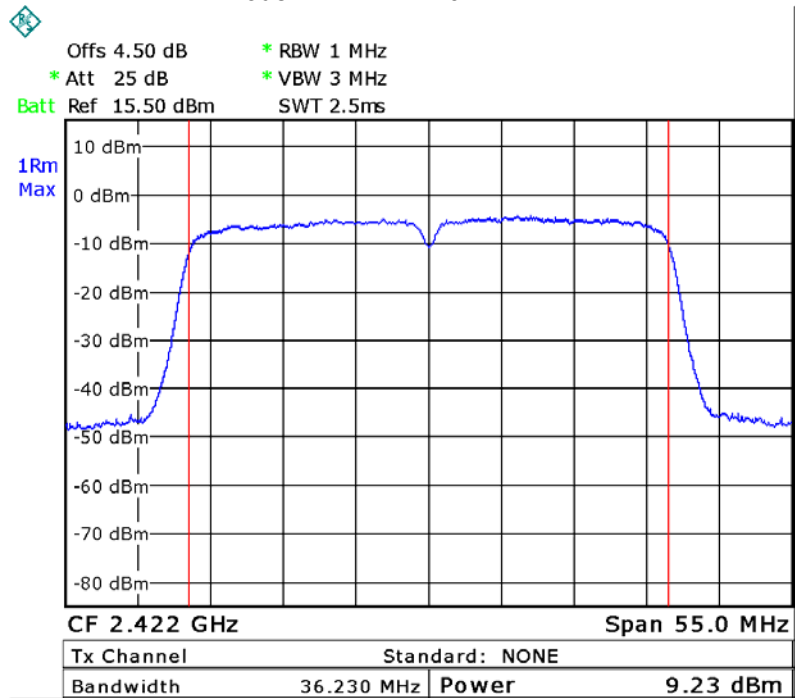
Mode: TX 11n HT20 2437MHz



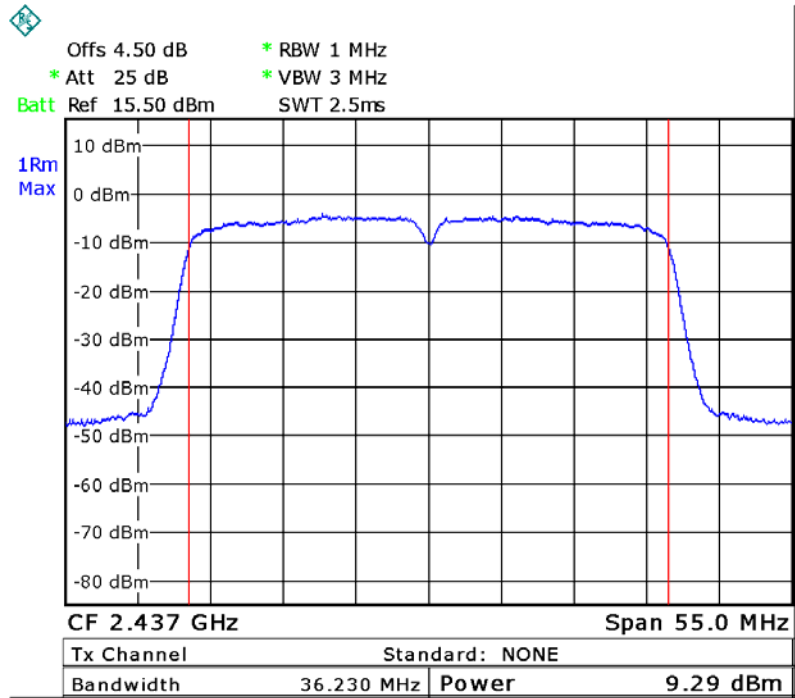
Mode: TX 11n HT20 2462MHz



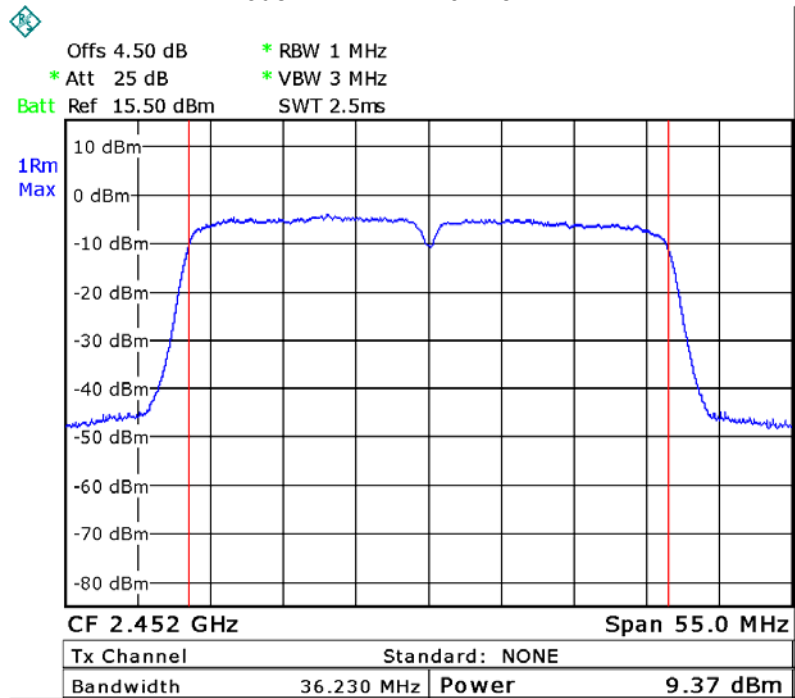
Mode: TX 11n HT40 2422MHz



Mode: TX 11n HT40 2437MHz



Mode: TX 11n HT40 2452MHz





## 12 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v04, April 5, 2017

### 12.1 Test Procedure:

558074 D01 DTS Meas Guidance v04, April 5, 2017

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.

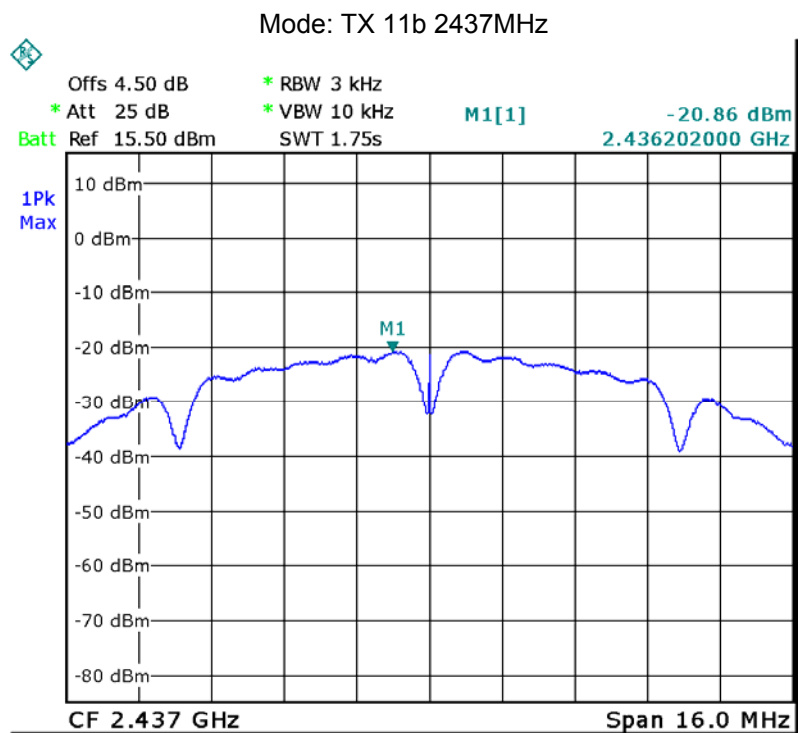
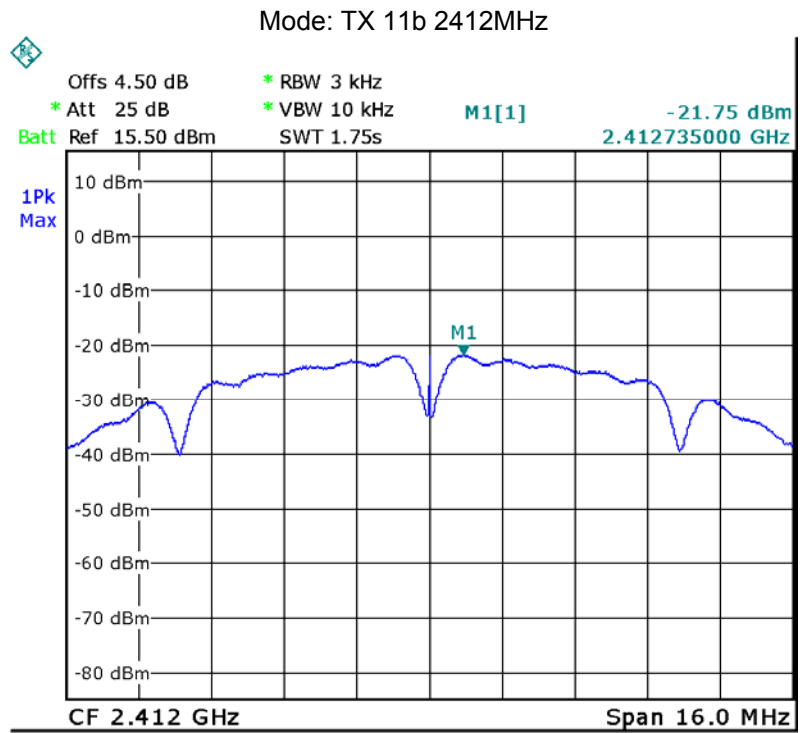
### 12.2 Test Result:

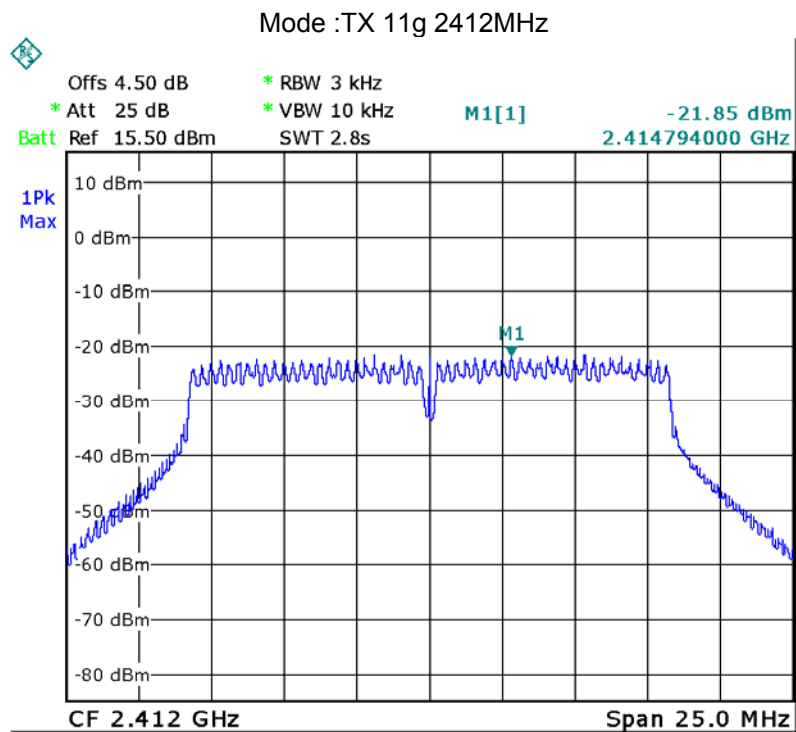
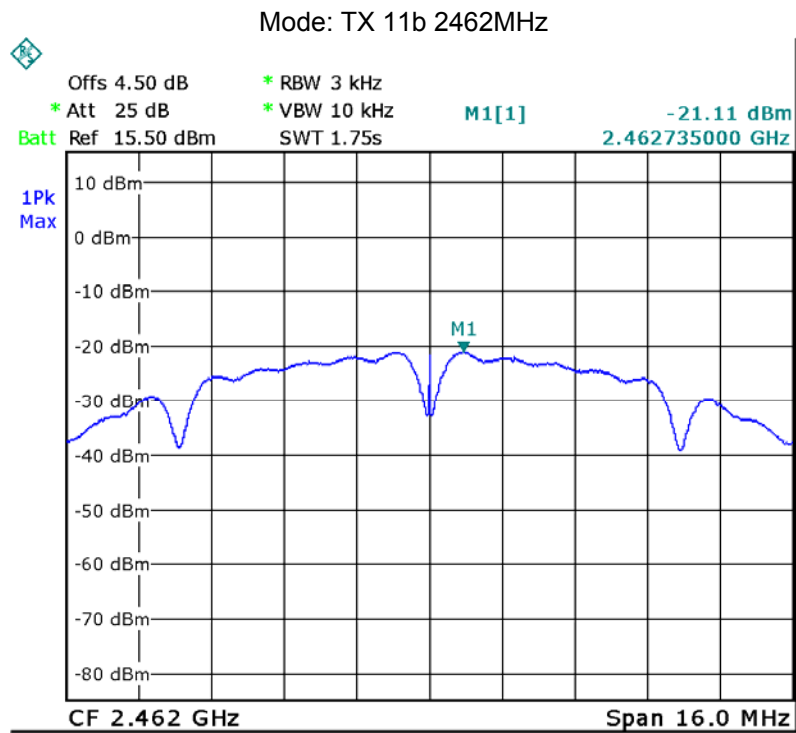
Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-21.75	-20.86	-21.11
Limit: 8dBm per 3kHz		

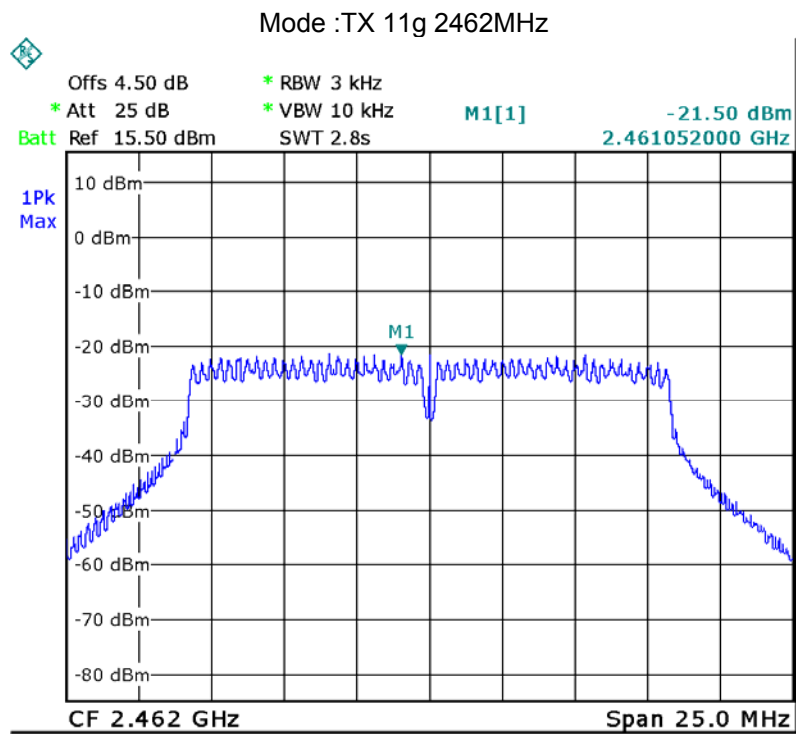
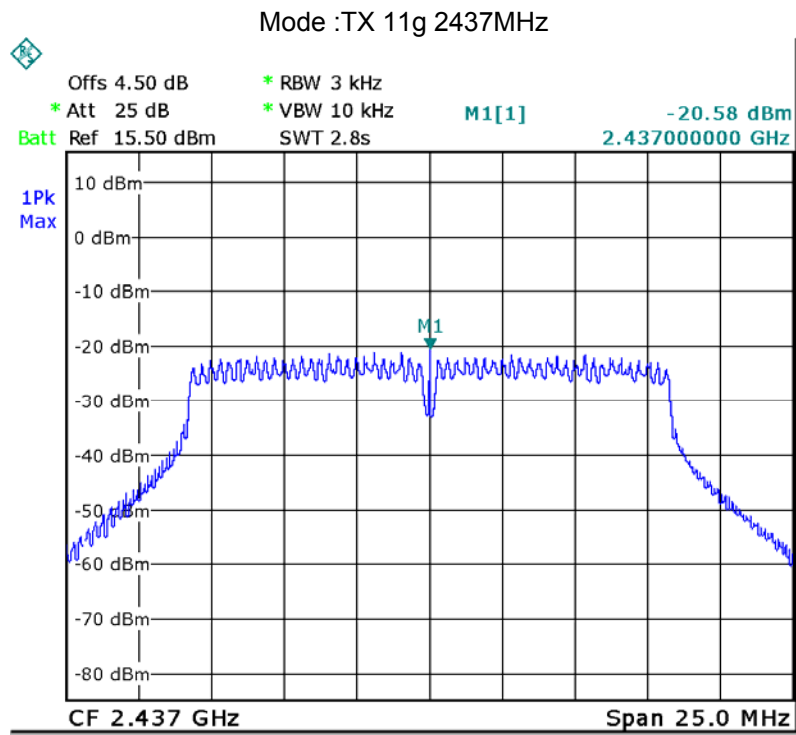
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-21.85	-20.58	-21.50
Limit: 8dBm per 3kHz		

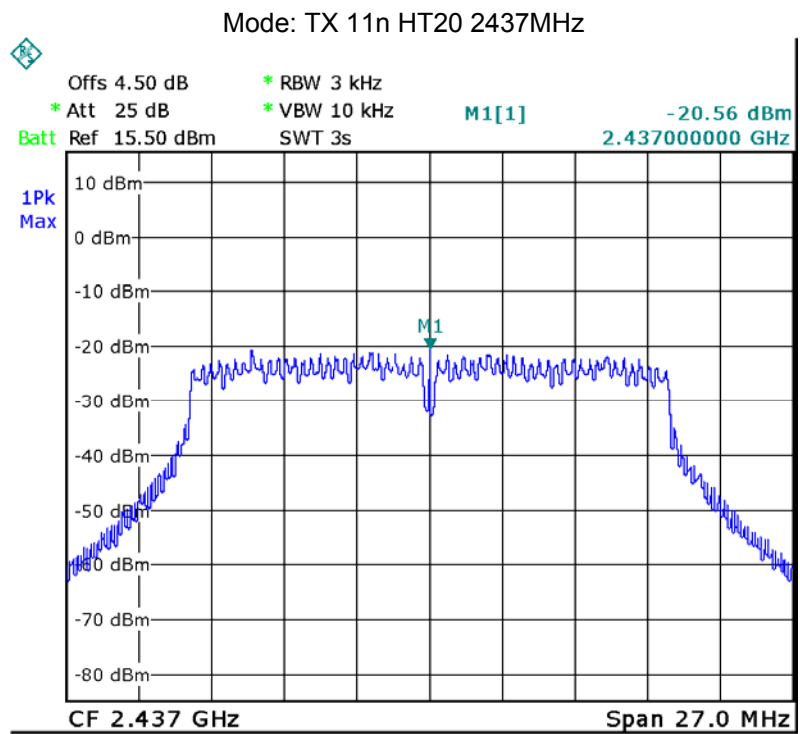
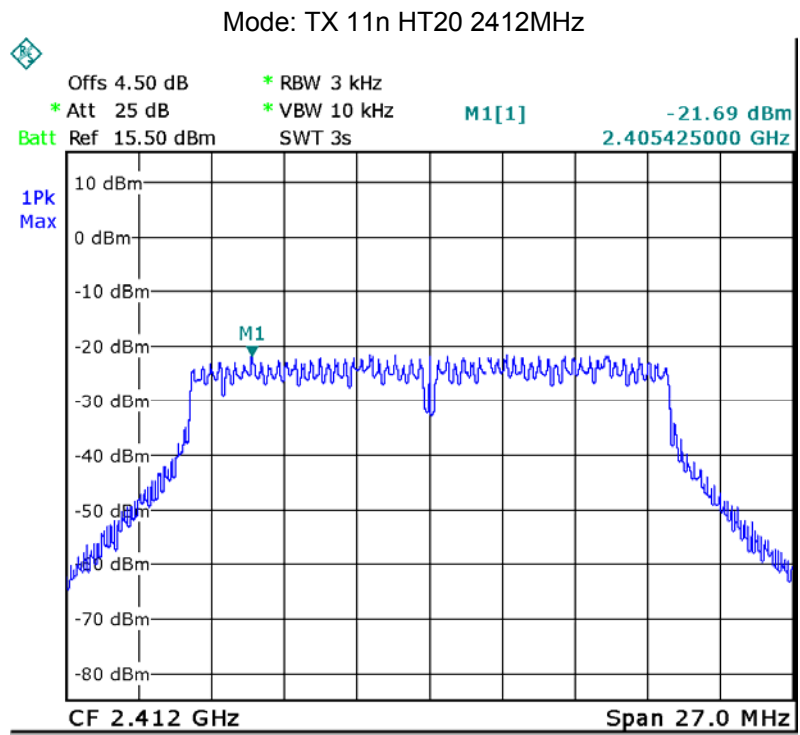
Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-21.69	-20.56	-20.89
Limit: 8dBm per 3kHz		

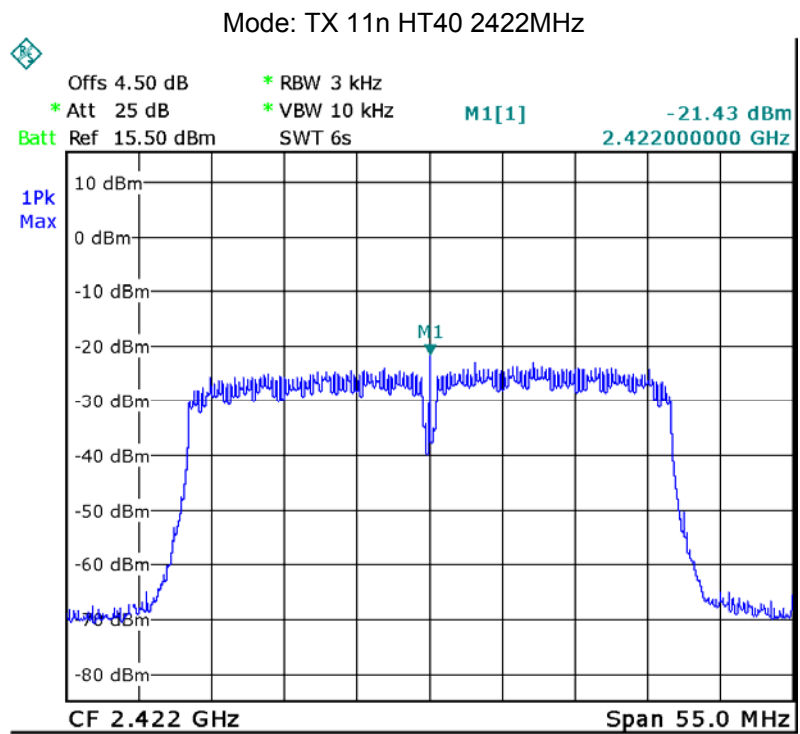
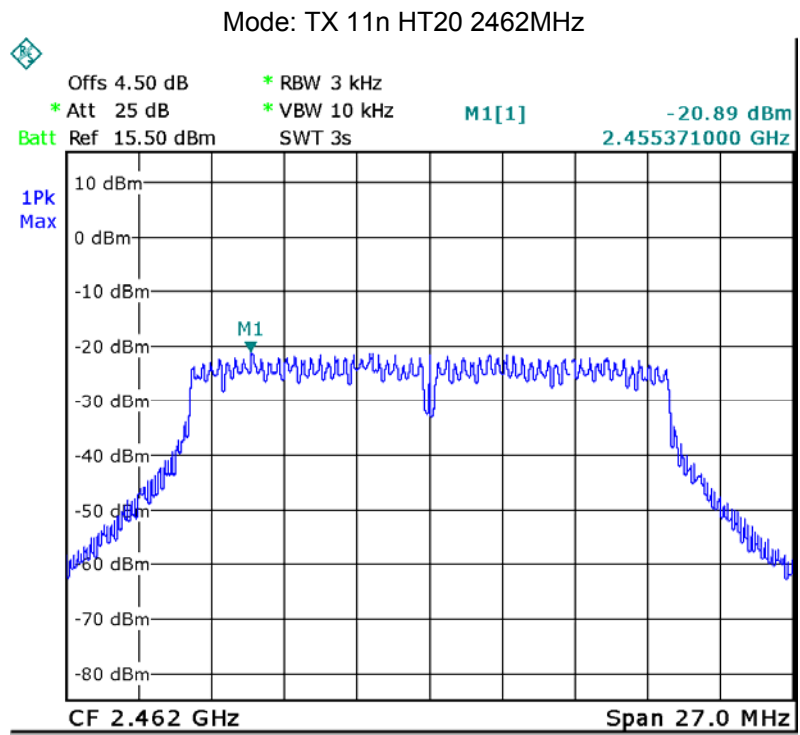
Test mode :TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-21.43	-20.76	-21.25
Limit: 8dBm per 3kHz		

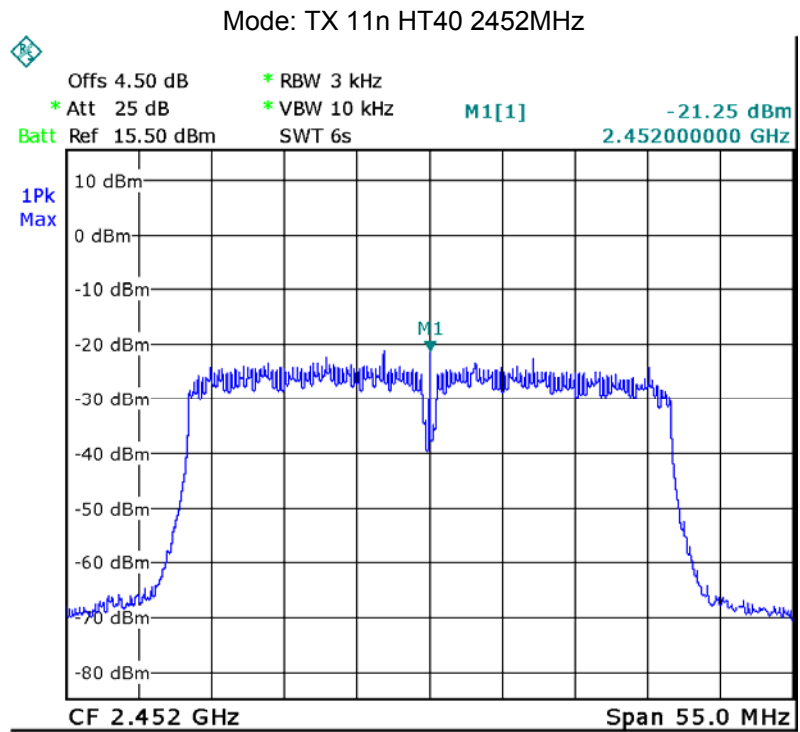
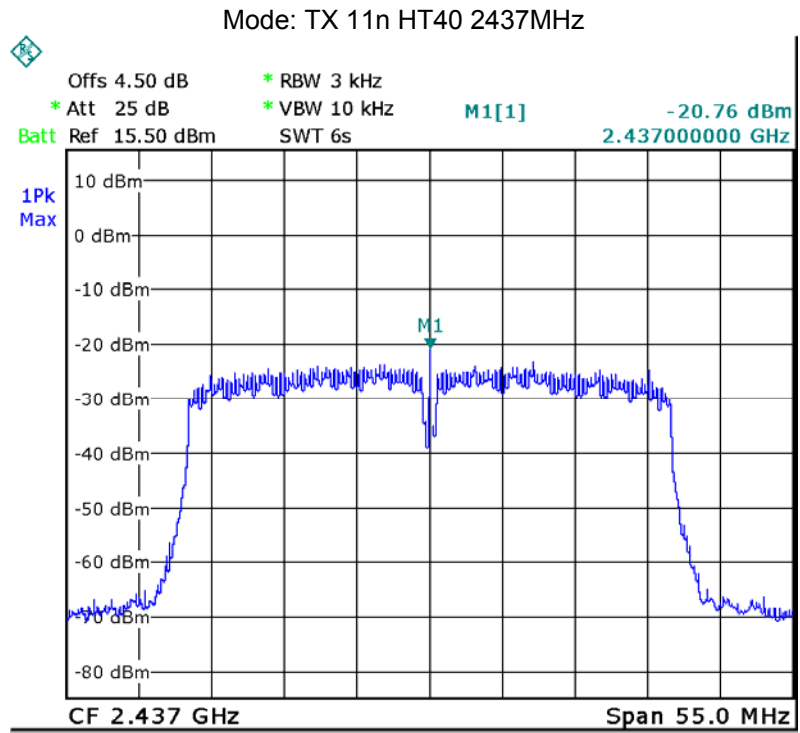












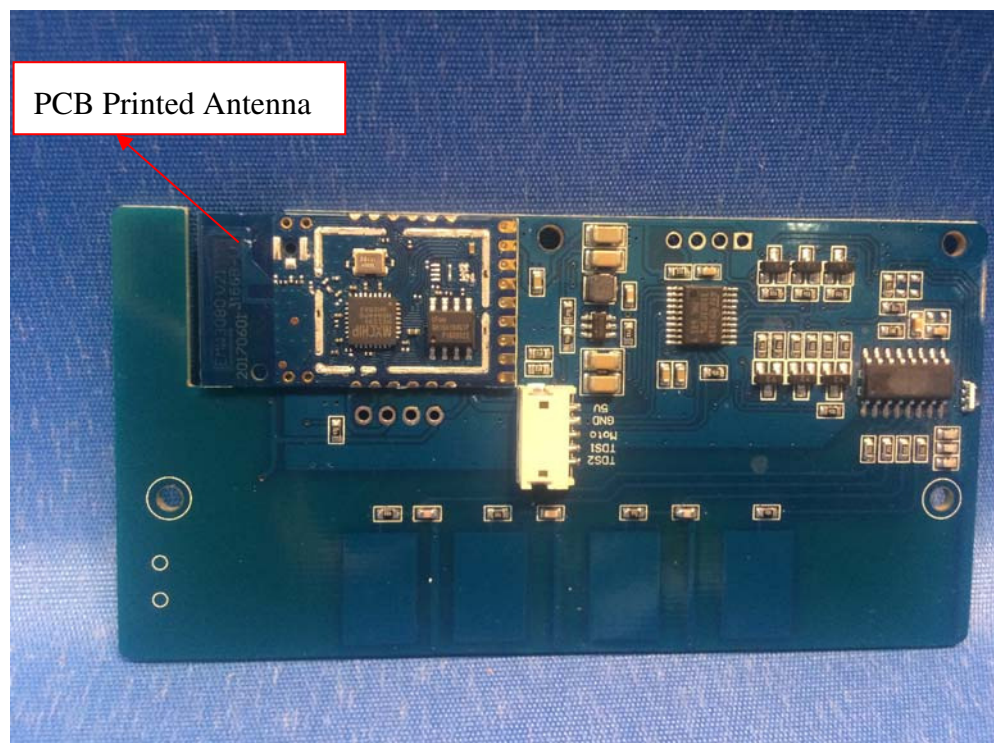
### 13 Antenna Requirement

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 shall be considered sufficient to comply with the provisions of this section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of §15.211, §15.213, §15.217, §15.219, or §15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

Result:

The EUT has one PCB Printed Antenna, the gain is 0dBi. meets the requirements of FCC 15.203.





## **14 FCC ID: REY-FSW010 RF Exposure Report**

Note: Please refer to RF Exposure test report: WTS17S1299960-2E.

## **15 Photographs – Model FSW010 Test Setup Photos**

Note: Please refer to Photos: WTS17S1299960-3E.

## **16 Photographs - Constructional Details**

### **16.1 Model FSW010-External Photos**

Note: Please refer to Photos: WTS17S1299960-3E.

### **16.2 Model FSW010-Internal Photos**

Note: Please refer to Photos: WTS17S1299960-3E.

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