

TEST REPORT

Reference No. : WTS16S0654324E
FCC ID..... : 2ACQ5SOW014
Applicant..... : Revogi Innovation Co., Ltd.
Address..... : 2018, Anhui Building, No. 6007, Shennan Boulevard, Shenzhen, Guangdong, China.
Manufacturer : SkyRC Technology Co., Ltd.
Address..... : 4/F, Building No. 6, Meitai Industry Park, Guanguang South Road, Guihua, Guanlan, 518110, Baoan District, Shenzhen, CHINA
Product Name..... : Smart Power Strip
Model No. : SOW014
Standards..... : FCC CFR47 Part 15 C Section 15.247:2015
Date of Receipt sample..... : Jun. 27, 2016
Date of Test..... : Jun. 29 – Sep. 26, 2016
Date of Issue..... : Sep. 27, 2016
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:

Waltek Services (Shenzhen) Co., Ltd.

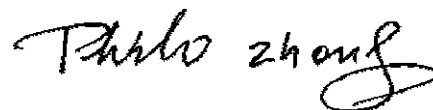
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Compiled by:



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Approved by:



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3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS16S0654324E	Jun. 27, 2016	Jun. 29 – Jul. 28, 2016	Aug. 11, 2016	original	-	Replaced
WTS16S0654324E	Jun. 27, 2016	Jun. 29 – Sep. 26, 2016	Sep. 27, 2016	Revision1	Removed channels 12 & 13	Valid

4 General Information

4.1 General Description of E.U.T.

Product Name:	Smart Power Strip
Model No.:	SOW014
Model Difference:	N/A
Operation Frequency:	802.11b/g/n HT20: 2412MHz ~ 2462MHz, 802.11n HT40: 2422MHz~2452MHz
The Lowest Oscillator:	:32.768KHz
Antenna Gain:	:2.0dBi
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.)

4.2 Details of E.U.T.

Technical Data:	Input: 100-120VAC 50/60Hz 15A, Output: 100-120VAC 50/60Hz 15A USB Output: DC 5V 3.1A.(each port max 3.1A)
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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 Peak 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	3/9	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 .

4.5 Test Facility

The test facility has a test site registered with the following organizations:

- FCC Test Site 1#– Registration No.: 880581**
 Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 880581, April 29, 2014.
- FCC Test Site 2#– Registration No.: 328995**
 Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

5 Equipment Used during Test

5.1 Equipment's 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	Sep.15,2015	Sep.14,2016
2.	LISN	R&S	ENV216	101215	Sep.15,2015	Sep.14,2016
3.	Cable	Top	TYPE16(3.5M)	-	Sep.15,2015	Sep.14,2016
Conducted 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	Sep.15,2015	Sep.14,2016
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.15,2015	Sep.14,2016
3.	Limitter	York	MTS-IMP-136	261115-001-0024	Sep.15,2015	Sep.14,2016
4.	Cable	LARGE	RF300	-	Sep.15,2015	Sep.14,2016
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	EMC Analyzer	Agilent	E7405A	MY45114943	Sep.15,2015	Sep.14,2016
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Sep.15,2015	Sep.14,2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.19,2016	Apr.18,2017
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.15,2015	Sep.14,2016
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.19,2016	Apr.18,2017
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.19,2016	Apr.18,2017
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Mar.17,2016	Mar.16,2017
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.10,2016	Apr.09,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Sep.15,2015	Sep.14,2016
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Sep.15,2015	Sep.14,2016
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Sep.15,2015	Sep.14,2016
4	Cable	HUBER+SUHNER	CBL2	525178	Sep.15,2015	Sep.14,2016

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	Sep.15,2015	Sep.14,2016
2.	Spectrum Analyzer (9k~6GHz)	R&S	FSL6	100959	Sep.15,2015	Sep.14,2016
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.15,2015	Sep.14,2016

5.2 Measurement Uncertainty

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

5.3 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.

6 Test Summary

Test Items	Test Requirement	Result
Radiated Emissions	15.247 15.205(a) 15.209(a)	C
Conducted Emissions	15.207(a)	C
Bandwidth	15.247(a)(2)	C
Maximum Peak Output Power	15.247(b)(3),(4)	C
Power Spectral Density	15.247(e)	C
Band Edge	15.247(d)	C
Antenna Requirement	15.203	C
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	C
Note: C=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,ANSI C63.4:2014
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	66-56 dB μ V between 0.15MHz & 0.5MHz 56 dB μ V between 0.5MHz & 5MHz 60 dB μ V between 5MHz & 30MHz
Detector:	Peak for pre-scan (9kHz Resolution Bandwidth)

7.1 E.U.T. Operation

Operating Environment :

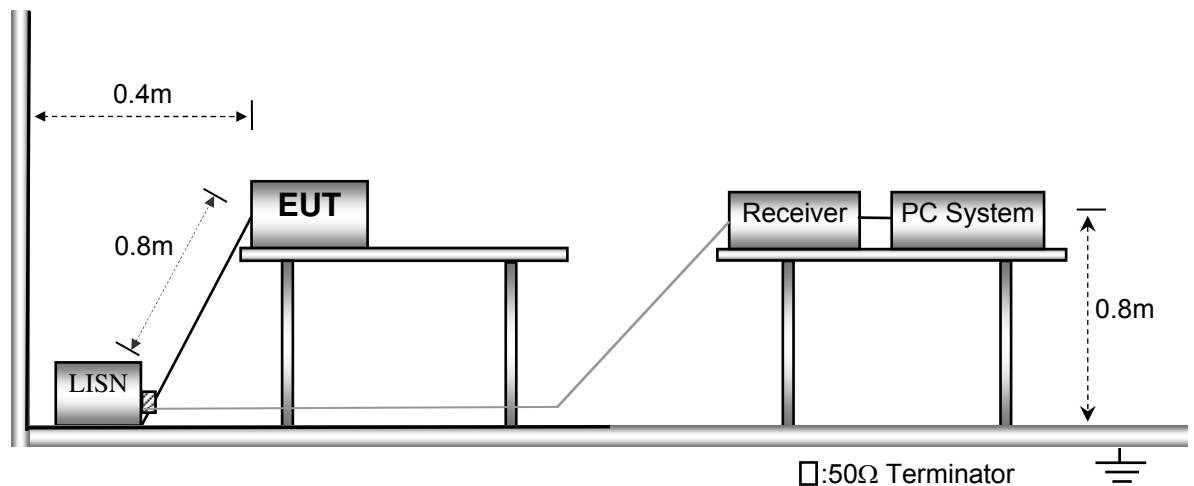
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

The test was performed in Transmitting mode, the test data 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.



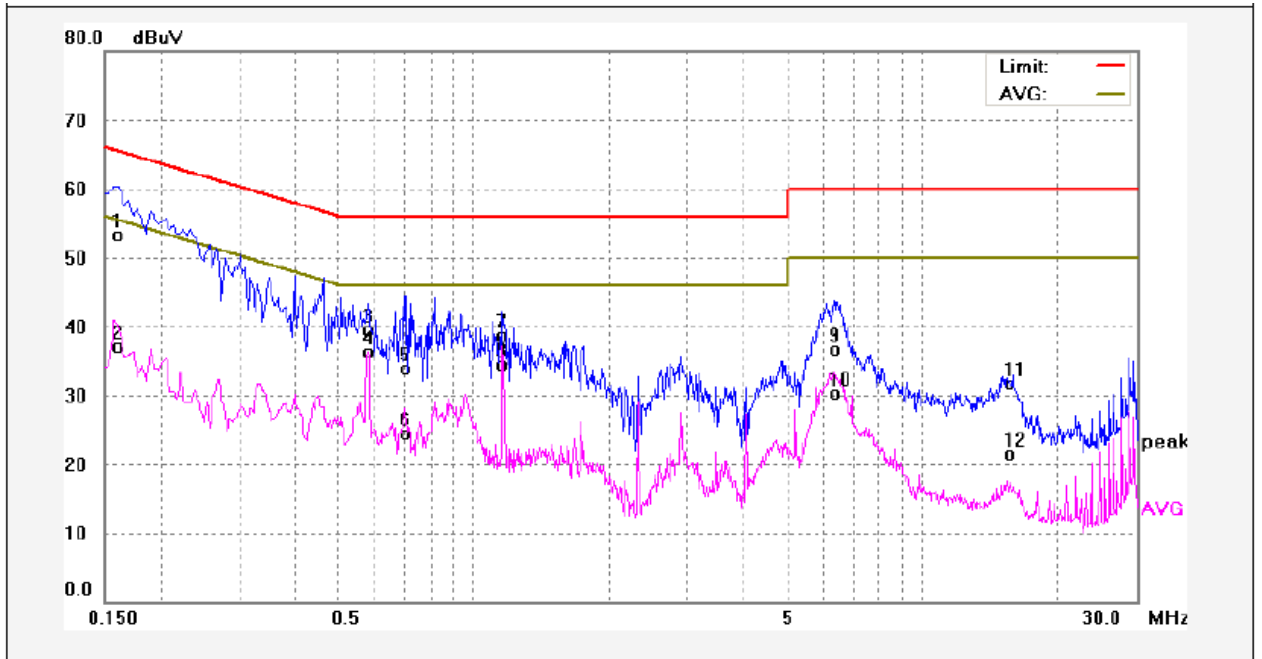
7.3 Measurement Description

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

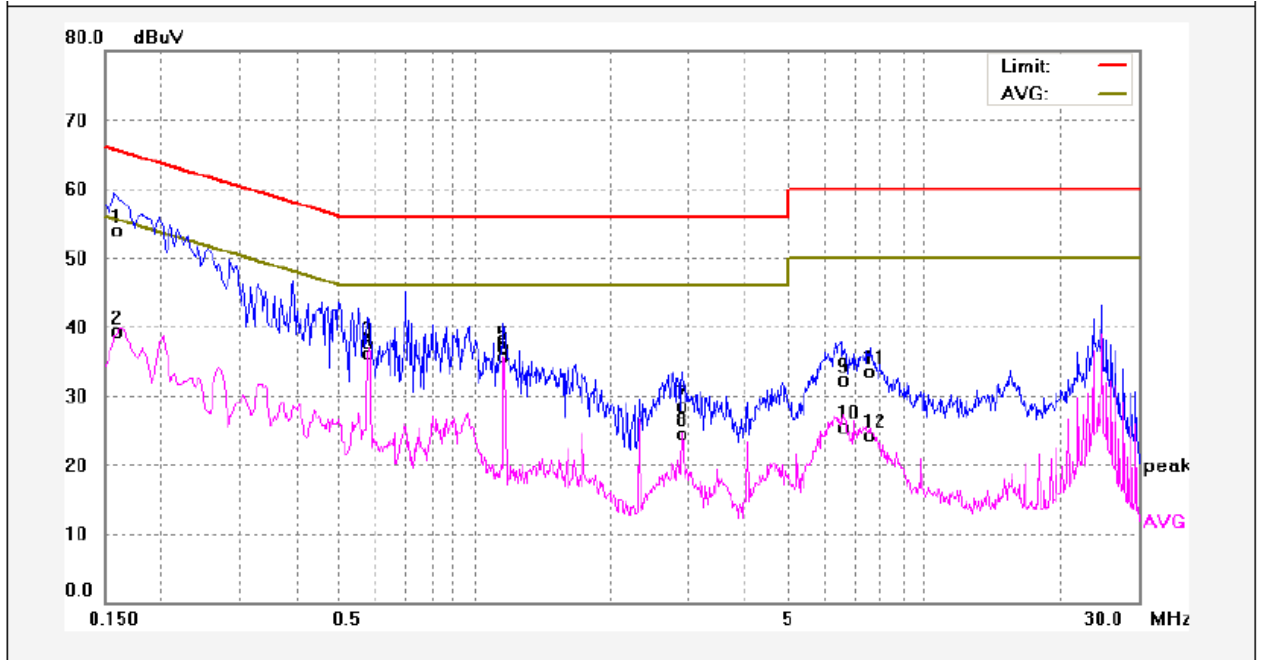
An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	43.58	9.74	53.32	65.36	-12.04	QP	
2	0.1620	27.45	9.74	37.19	55.36	-18.17	AVG	
3	0.5820	29.84	9.76	39.60	56.00	-16.40	QP	
4	0.5820	26.59	9.76	36.35	46.00	-9.65	AVG	
5	0.7100	24.22	9.77	33.99	56.00	-22.01	QP	
6	0.7100	14.81	9.77	24.58	46.00	-21.42	AVG	
7	1.1580	28.83	9.82	38.65	56.00	-17.35	QP	
8	1.1580	24.74	9.82	34.56	46.00	-11.44	AVG	
9	6.3659	26.73	10.06	36.79	60.00	-23.21	QP	
10	6.3659	20.30	10.06	30.36	50.00	-19.64	AVG	
11	15.9579	21.33	10.47	31.80	60.00	-28.20	QP	
12	15.9579	10.99	10.47	21.46	50.00	-28.54	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1580	44.25	9.75	54.00	65.56	-11.56	QP	
2	0.1580	29.59	9.75	39.34	55.56	-16.22	AVG	
3	0.5820	27.90	9.76	37.66	56.00	-18.34	QP	
4	0.5820	26.41	9.76	36.17	46.00	-9.83	AVG	
5	1.1580	27.33	9.82	37.15	56.00	-18.85	QP	
6	1.1580	25.95	9.82	35.77	46.00	-10.23	AVG	
7	2.8980	18.67	9.91	28.58	56.00	-27.42	QP	
8	2.8980	14.54	9.91	24.45	46.00	-21.55	AVG	
9	6.5500	22.25	10.07	32.32	60.00	-27.68	QP	
10	6.5500	15.39	10.07	25.46	50.00	-24.54	AVG	
11	7.6220	23.28	10.13	33.41	60.00	-26.59	QP	
12	7.6220	14.26	10.13	24.39	50.00	-25.61	AVG	

8 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: ANSI C63.10:2013,ANSI C63.4:2014

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	$2400/F(\text{kHz})$	300	$10000 * 2400/F(\text{kHz})$	$20\log^{(2400/F(\text{kHz}))} + 80$
0.490 ~ 1.705	$24000/F(\text{kHz})$	30	$100 * 24000/F(\text{kHz})$	$20\log^{(24000/F(\text{kHz}))} + 40$
1.705 ~ 30	30	30	$100 * 30$	$20\log^{(30)} + 40$
30 ~ 88	100	3	100	$20\log^{(100)}$
88 ~ 216	150	3	150	$20\log^{(150)}$
216 ~ 960	200	3	200	$20\log^{(200)}$
Above 960	500	3	500	$20\log^{(500)}$

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

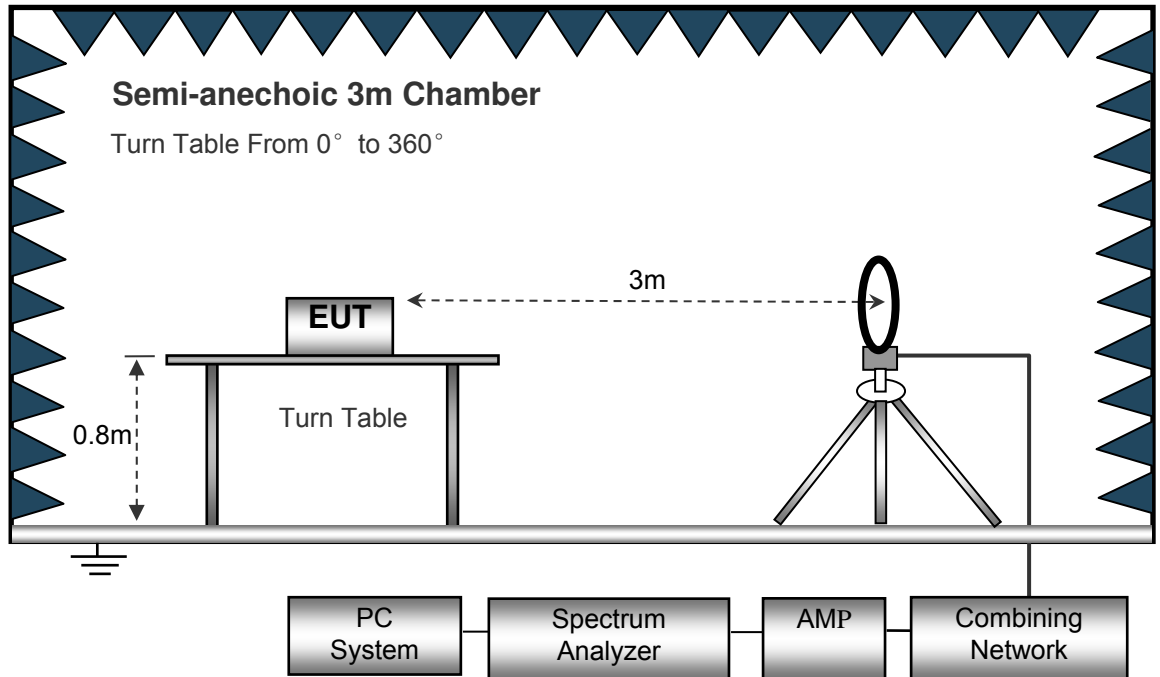
EUT Operation :

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

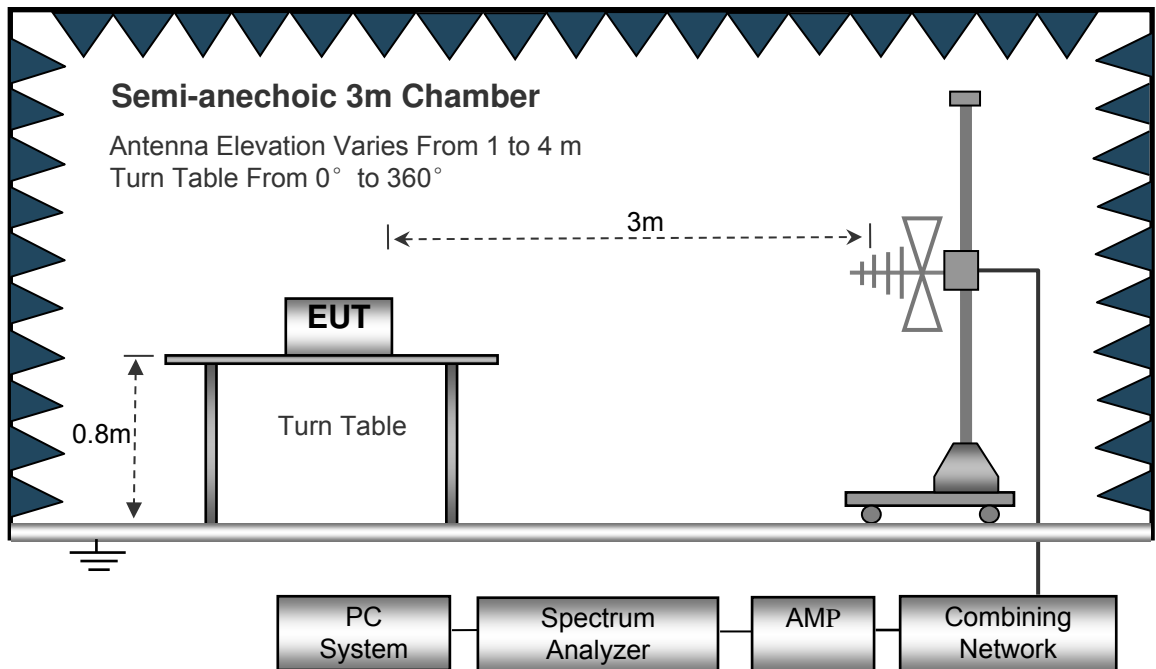
8.2 Test Setup

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

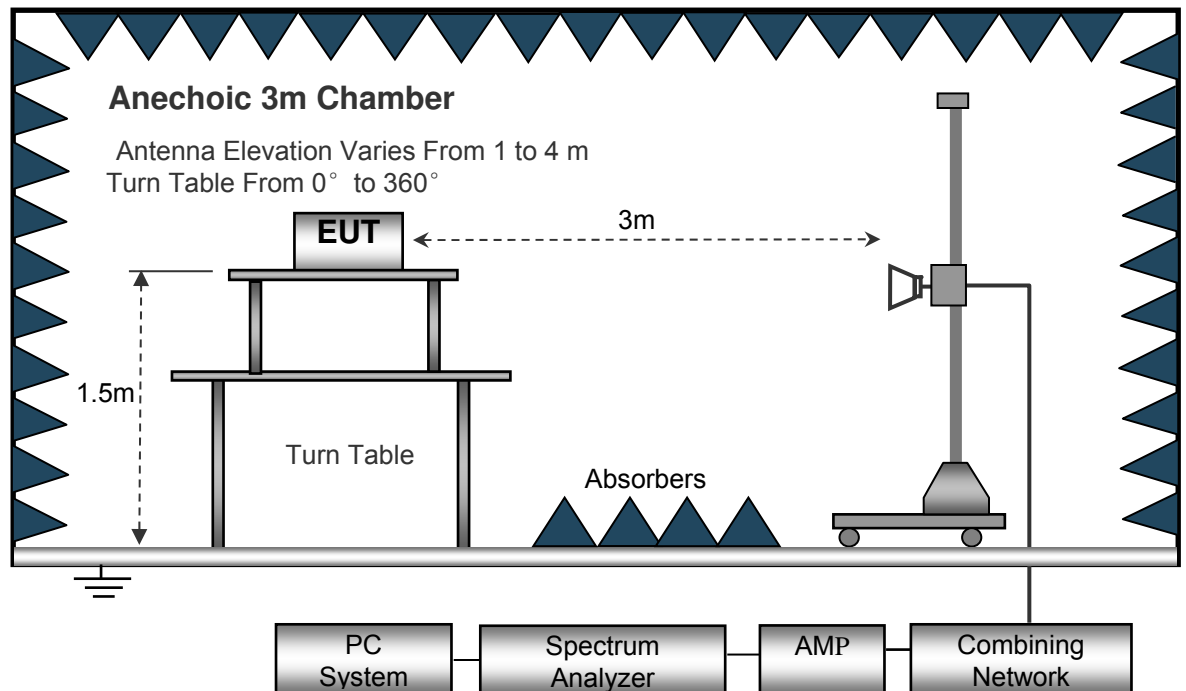
The test setup for emission measurement below 30MHz.



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 : 32.768KHz to 30MHz

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

Test Frequency : 30MHz ~ 18GHz

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: Low Channel 2412MHz									
225.36	42.33	QP	94	1.5	H	-11.62	30.71	46.00	-15.29
225.36	36.34	QP	211	1.7	V	-11.62	24.72	46.00	-21.28
4824.00	51.15	PK	193	1.4	V	-1.06	50.09	74.00	-23.91
4824.00	47.21	Ave	193	1.4	V	-1.06	46.15	54.00	-7.85
7236.00	42.18	PK	50	1.7	H	1.33	43.51	74.00	-30.49
7236.00	42.14	Ave	50	1.7	H	1.33	43.47	54.00	-10.53
2338.72	46.69	PK	337	1.7	V	-13.19	33.50	74.00	-40.50
2338.72	38.93	Ave	337	1.7	V	-13.19	25.74	54.00	-28.26
2357.27	42.67	PK	153	1.5	H	-13.14	29.53	74.00	-44.47
2357.27	37.72	Ave	153	1.5	H	-13.14	24.58	54.00	-29.42
2490.90	44.88	PK	92	1.5	V	-13.08	31.80	74.00	-42.20
2490.90	37.84	Ave	92	1.5	V	-13.08	24.76	54.00	-29.24

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: Middle Channel 2437MHz									
225.36	43.23	QP	120	1.7	H	-11.62	31.61	46.00	-14.39
225.36	36.03	QP	153	1.8	V	-11.62	24.41	46.00	-21.59
4874.00	52.60	PK	288	1.3	V	-0.62	51.98	74.00	-22.02
4874.00	47.38	Ave	288	1.3	V	-0.62	46.76	54.00	-7.24
7311.00	40.71	PK	63	1.1	H	2.21	42.92	74.00	-31.08
7311.00	43.43	Ave	63	1.1	H	2.21	45.64	54.00	-8.36
2322.55	46.97	PK	333	1.6	V	-13.19	33.78	74.00	-40.22
2322.55	37.06	Ave	333	1.6	V	-13.19	23.87	54.00	-30.13
2385.58	44.69	PK	46	1.6	H	-13.14	31.55	74.00	-42.45
2385.58	38.09	Ave	46	1.6	H	-13.14	24.95	54.00	-29.05
2484.08	44.34	PK	6	1.0	V	-13.08	31.26	74.00	-42.74
2484.08	36.34	Ave	6	1.0	V	-13.08	23.26	54.00	-30.74

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: High Channel 2462MHz									
225.36	43.03	QP	162	2.0	H	-11.62	31.41	46.00	-14.59
225.36	36.96	QP	125	1.7	V	-11.62	25.34	46.00	-20.66
4924.00	51.72	PK	52	1.3	V	-0.24	51.48	74.00	-22.52
4924.00	46.24	Ave	52	1.3	V	-0.24	46.00	54.00	-8.00
7386.00	41.95	PK	140	1.6	H	2.84	44.79	74.00	-29.21
7386.00	44.37	Ave	140	1.6	H	2.84	47.21	54.00	-6.79
2334.01	46.12	PK	188	1.3	V	-13.19	32.93	74.00	-41.07
2334.01	37.58	Ave	188	1.3	V	-13.19	24.39	54.00	-29.61
2359.38	43.30	PK	160	1.6	H	-13.14	30.16	74.00	-43.84
2359.38	38.34	Ave	160	1.6	H	-13.14	25.20	54.00	-28.80
2486.53	44.17	PK	337	1.6	V	-13.08	31.09	74.00	-42.91
2486.53	38.24	Ave	337	1.6	V	-13.08	25.16	54.00	-28.84

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)
11g: Low Channel 2412MHz									
225.36	42.76	QP	108	1.5	H	-11.62	31.14	46.00	-14.86
225.36	38.20	QP	7	1.7	V	-11.62	26.58	46.00	-19.42
4824.00	50.79	PK	350	2.0	V	-1.06	49.73	74.00	-24.27
4824.00	47.72	Ave	350	2.0	V	-1.06	46.66	54.00	-7.34
7236.00	40.79	PK	324	1.5	H	1.33	42.12	74.00	-31.88
7236.00	44.19	Ave	324	1.5	H	1.33	45.52	54.00	-8.48
2334.43	45.95	PK	271	1.2	V	-13.19	32.76	74.00	-41.24
2334.43	39.55	Ave	271	1.2	V	-13.19	26.36	54.00	-27.64
2370.12	43.43	PK	185	1.2	H	-13.14	30.29	74.00	-43.71
2370.12	36.43	Ave	185	1.2	H	-13.14	23.29	54.00	-30.71
2490.51	43.83	PK	174	1.5	V	-13.08	30.75	74.00	-43.25
2490.51	38.52	Ave	174	1.5	V	-13.08	25.44	54.00	-28.56

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11g: Middle Channel 2437MHz									
225.36	42.64	QP	68	1.8	H	-11.62	31.02	46.00	-14.98
225.36	39.36	QP	146	1.1	V	-11.62	27.74	46.00	-18.26
4874.00	51.91	PK	323	1.3	V	-0.62	51.29	74.00	-22.71
4874.00	48.12	Ave	323	1.3	V	-0.62	47.50	54.00	-6.50
7311.00	41.37	PK	54	1.0	H	2.21	43.58	74.00	-30.42
7311.00	42.79	Ave	54	1.0	H	2.21	45.00	54.00	-9.00
2319.92	46.19	PK	317	1.2	V	-13.19	33.00	74.00	-41.00
2319.92	38.56	Ave	317	1.2	V	-13.19	25.37	54.00	-28.63
2361.17	44.44	PK	194	1.1	H	-13.14	31.30	74.00	-42.70
2361.17	37.09	Ave	194	1.1	H	-13.14	23.95	54.00	-30.05
2483.69	42.78	PK	339	1.4	V	-13.08	29.70	74.00	-44.30
2483.69	37.39	Ave	339	1.4	V	-13.08	24.31	54.00	-29.69

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11g: High Channel 2462MHz									
225.36	44.08	QP	117	1.8	H	-11.62	32.46	46.00	-13.54
225.36	40.14	QP	267	1.8	V	-11.62	28.52	46.00	-17.48
4924.00	52.67	PK	247	1.7	V	-0.24	52.43	74.00	-21.57
4924.00	48.53	Ave	247	1.7	V	-0.24	48.29	54.00	-5.71
7386.00	42.37	PK	161	1.5	H	2.84	45.21	74.00	-28.79
7386.00	41.49	Ave	161	1.5	H	2.84	44.33	54.00	-9.67
2346.52	45.75	PK	299	1.8	V	-13.19	32.56	74.00	-41.44
2346.52	39.32	Ave	299	1.8	V	-13.19	26.13	54.00	-27.87
2388.51	42.02	PK	356	1.7	H	-13.14	28.88	74.00	-45.12
2388.51	37.19	Ave	356	1.7	H	-13.14	24.05	54.00	-29.95
2485.74	43.67	PK	303	1.9	V	-13.08	30.59	74.00	-43.41
2485.74	38.76	Ave	303	1.9	V	-13.08	25.68	54.00	-28.32

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20: Low Channel 2412MHz									
225.36	44.06	QP	146	1.1	H	-11.62	32.44	46.00	-13.56
225.36	40.80	QP	186	1.6	V	-11.62	29.18	46.00	-16.82
4824.00	52.60	PK	354	1.4	V	-1.06	51.54	74.00	-22.46
4824.00	48.40	Ave	354	1.4	V	-1.06	47.34	54.00	-6.66
7236.00	41.85	PK	144	1.0	H	1.33	43.18	74.00	-30.82
7236.00	42.06	Ave	144	1.0	H	1.33	43.39	54.00	-10.61
2311.45	45.03	PK	348	1.1	V	-13.19	31.84	74.00	-42.16
2311.45	38.11	Ave	348	1.1	V	-13.19	24.92	54.00	-29.08
2371.21	43.29	PK	186	1.8	H	-13.14	30.15	74.00	-43.85
2371.21	37.35	Ave	186	1.8	H	-13.14	24.21	54.00	-29.79
2485.79	44.13	PK	223	1.9	V	-13.08	31.05	74.00	-42.95
2485.79	36.20	Ave	223	1.9	V	-13.08	23.12	54.00	-30.88

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20: Middle Channel 2437MHz									
225.36	45.41	QP	126	1.1	H	-11.62	33.79	46.00	-12.21
225.36	39.73	QP	78	1.8	V	-11.62	28.11	46.00	-17.89
4874.00	54.03	PK	358	1.5	V	-0.62	53.41	74.00	-20.59
4874.00	47.66	Ave	358	1.5	V	-0.62	47.04	54.00	-6.96
7311.00	41.69	PK	107	2.0	H	2.21	43.90	74.00	-30.10
7311.00	41.88	Ave	107	2.0	H	2.21	44.09	54.00	-9.91
2336.14	45.16	PK	207	1.8	V	-13.19	31.97	74.00	-42.03
2336.14	39.24	Ave	207	1.8	V	-13.19	26.05	54.00	-27.95
2358.48	43.06	PK	214	2.0	H	-13.14	29.92	74.00	-44.08
2358.48	38.36	Ave	214	2.0	H	-13.14	25.22	54.00	-28.78
2489.65	42.96	PK	240	1.1	V	-13.08	29.88	74.00	-44.12
2489.65	37.21	Ave	240	1.1	V	-13.08	24.13	54.00	-29.87

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n20: High Channel 2462MHz									
225.36	46.52	QP	272	1.8	H	-11.62	34.90	46.00	-11.10
225.36	38.91	QP	267	1.7	V	-11.62	27.29	46.00	-18.71
4924.00	54.60	PK	307	1.9	V	-0.24	54.36	74.00	-19.64
4924.00	47.93	Ave	307	1.9	V	-0.24	47.69	54.00	-6.31
7386.00	42.47	PK	105	1.2	H	2.84	45.31	74.00	-28.69
7386.00	42.12	Ave	105	1.2	H	2.84	44.96	54.00	-9.04
2346.00	45.92	PK	351	1.8	V	-13.19	32.73	74.00	-41.27
2346.00	37.47	Ave	351	1.8	V	-13.19	24.28	54.00	-29.72
2371.19	44.55	PK	330	1.0	H	-13.14	31.41	74.00	-42.59
2371.19	36.73	Ave	330	1.0	H	-13.14	23.59	54.00	-30.41
2489.78	42.75	PK	60	1.8	V	-13.08	29.67	74.00	-44.33
2489.78	36.27	Ave	60	1.8	V	-13.08	23.19	54.00	-30.81

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40: Low Channel 2422MHz									
225.36	47.76	QP	161	1.5	H	-11.62	36.14	46.00	-9.86
225.36	38.07	QP	199	1.5	V	-11.62	26.45	46.00	-19.55
4844.00	53.13	PK	352	1.2	V	-1.06	52.07	74.00	-21.93
4844.00	45.31	Ave	352	1.2	V	-1.06	44.25	54.00	-9.75
7266.00	40.89	PK	100	1.4	H	1.33	42.22	74.00	-31.78
7266.00	39.83	Ave	100	1.4	H	1.33	41.16	54.00	-12.84
2325.42	46.75	PK	301	1.9	V	-13.19	33.56	74.00	-40.44
2325.42	38.86	Ave	301	1.9	V	-13.19	25.67	54.00	-28.33
2384.88	44.01	PK	360	1.3	H	-13.14	30.87	74.00	-43.13
2384.88	38.93	Ave	360	1.3	H	-13.14	25.79	54.00	-28.21
2488.46	42.42	PK	288	1.5	V	-13.08	29.34	74.00	-44.66
2488.46	36.49	Ave	288	1.5	V	-13.08	23.41	54.00	-30.59

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40: Middle Channel 2437MHz									
225.36	47.35	QP	175	1.3	H	-11.62	35.73	46.00	-10.27
225.36	37.52	QP	143	1.5	V	-11.62	25.90	46.00	-20.10
4874.00	53.84	PK	138	1.3	V	-0.62	53.22	74.00	-20.78
4874.00	46.07	Ave	138	1.3	V	-0.62	45.45	54.00	-8.55
7311.00	41.20	PK	129	1.3	H	2.21	43.41	74.00	-30.59
7311.00	39.92	Ave	129	1.3	H	2.21	42.13	54.00	-11.87
2324.17	46.31	PK	19	1.8	V	-13.19	33.12	74.00	-40.88
2324.17	37.74	Ave	19	1.8	V	-13.19	24.55	54.00	-29.45
2355.19	42.08	PK	282	1.1	H	-13.14	28.94	74.00	-45.06
2355.19	38.14	Ave	282	1.1	H	-13.14	25.00	54.00	-29.00
2496.60	43.47	PK	46	1.5	V	-13.08	30.39	74.00	-43.61
2496.60	36.67	Ave	46	1.5	V	-13.08	23.59	54.00	-30.41

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
n40: High Channel 2452MHz									
225.36	47.19	QP	151	1.6	H	-11.62	35.57	46.00	-10.43
225.36	36.90	QP	175	1.0	V	-11.62	25.28	46.00	-20.72
4904.00	53.09	PK	304	1.2	V	-0.24	52.85	74.00	-21.15
4904.00	45.47	Ave	304	1.2	V	-0.24	45.23	54.00	-8.77
7356.00	40.76	PK	172	1.4	H	2.84	43.60	74.00	-30.40
7356.00	40.42	Ave	172	1.4	H	2.84	43.26	54.00	-10.74
2325.41	45.34	PK	184	1.5	V	-13.19	32.15	74.00	-41.85
2325.41	37.78	Ave	184	1.5	V	-13.19	24.59	54.00	-29.41
2357.35	43.50	PK	88	1.4	H	-13.14	30.36	74.00	-43.64
2357.35	38.87	Ave	88	1.4	H	-13.14	25.73	54.00	-28.27
2485.88	43.16	PK	121	1.1	V	-13.08	30.08	74.00	-43.92
2485.88	37.11	Ave	121	1.1	V	-13.08	24.03	54.00	-29.97

Test Frequency: 18GHz~25GHz

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

9 Band Edge Measurement

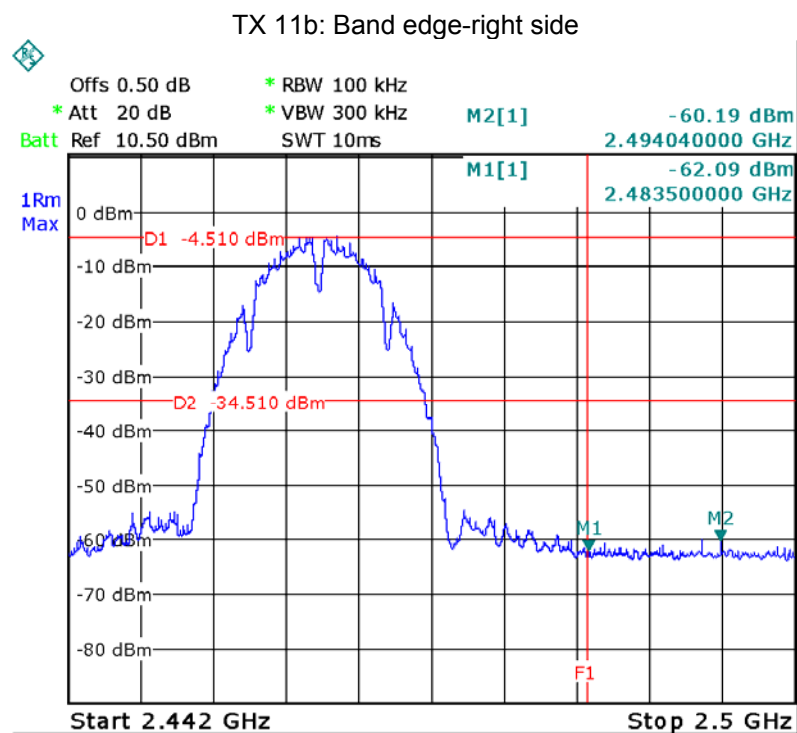
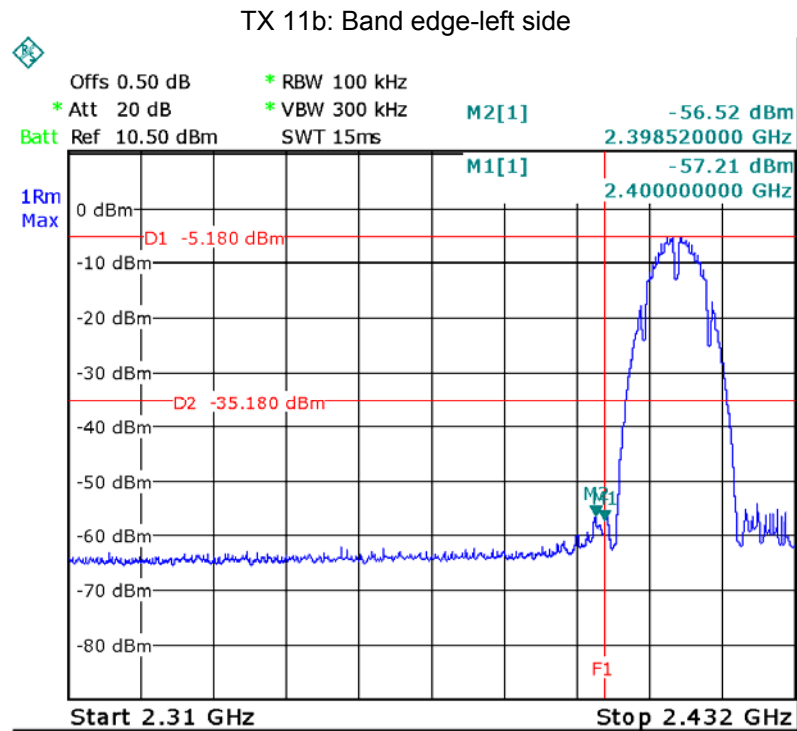
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance v03r05
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that 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

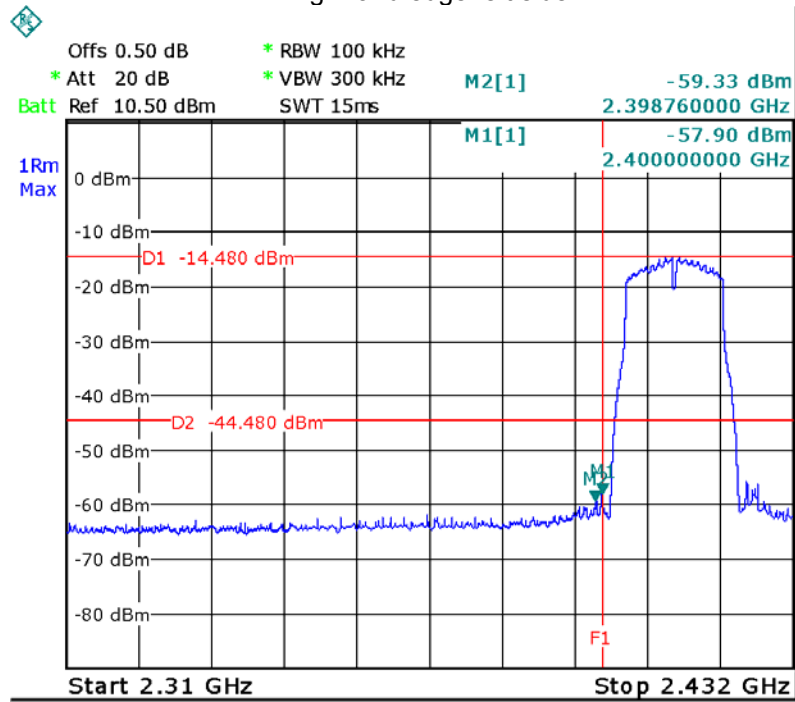
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

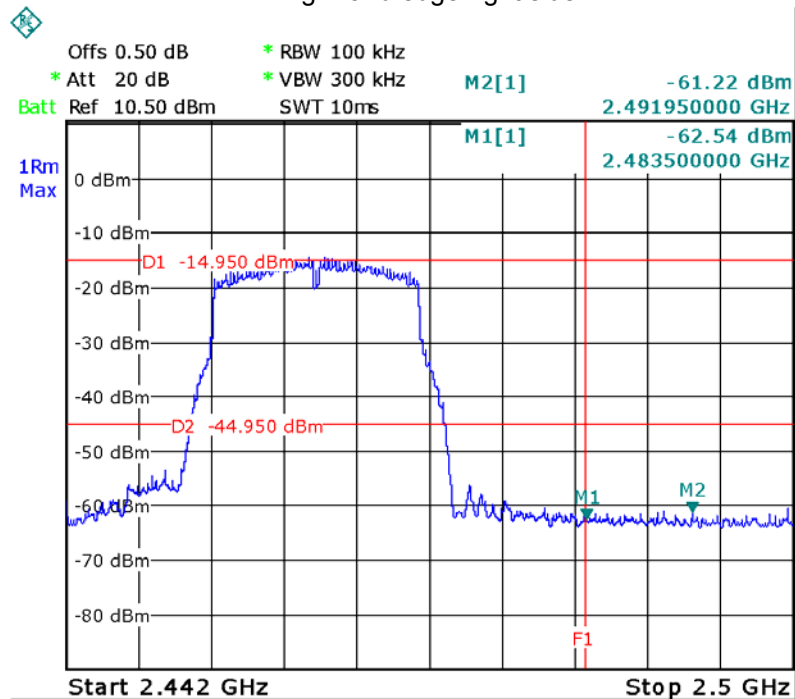
Test result plots shown as follows:



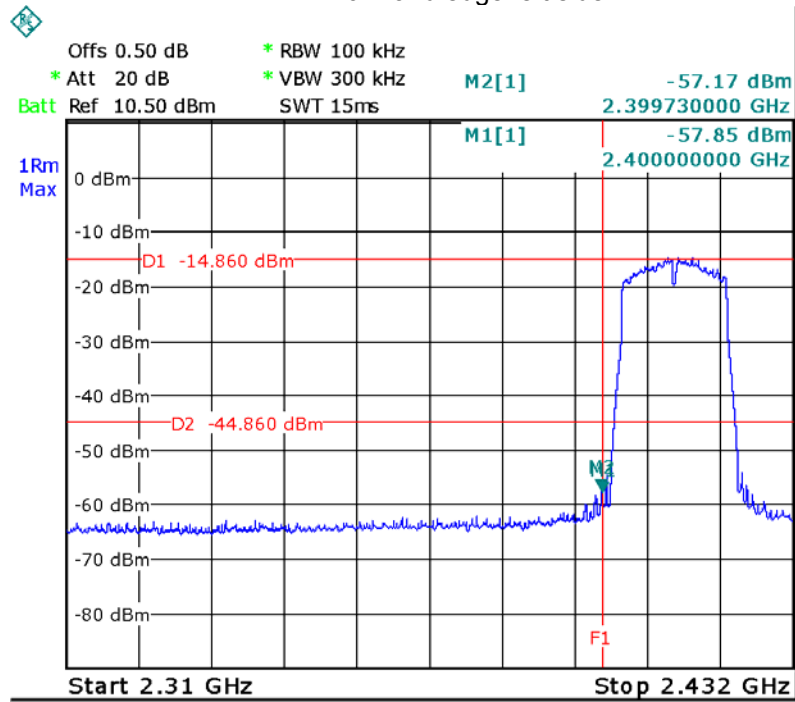
TX 11g: Band edge-left side



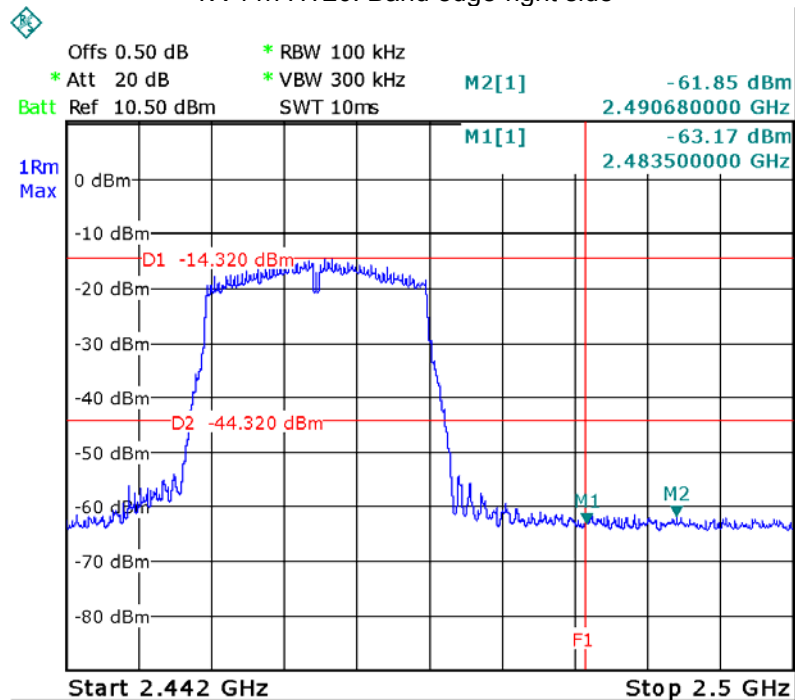
TX 11g: Band edge-right side



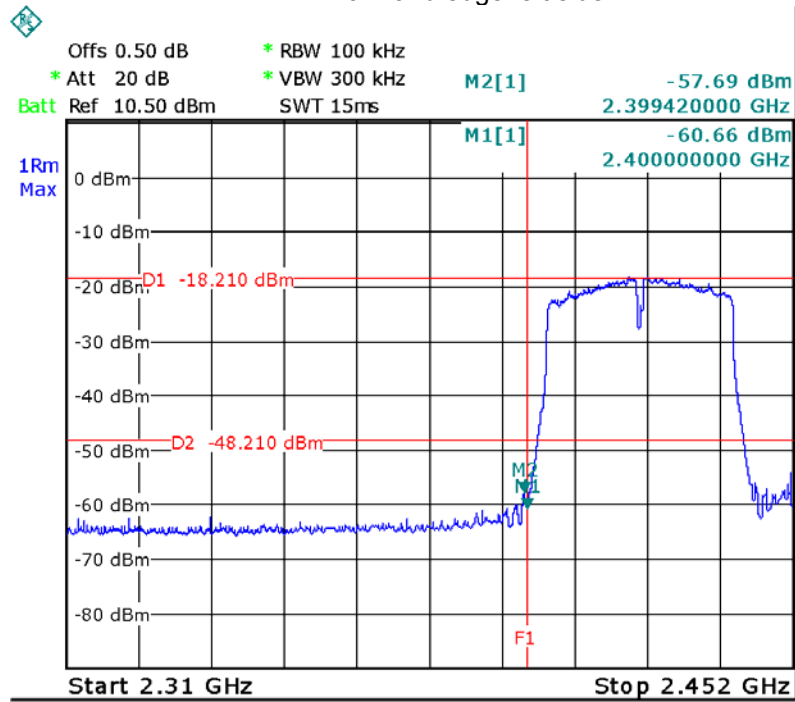
TX 11n HT20: Band edge-left side



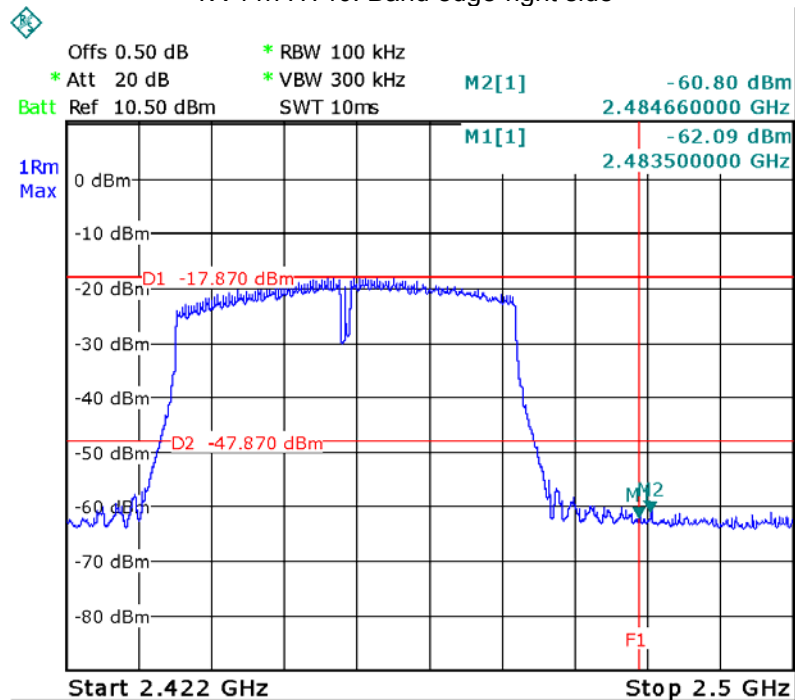
TX 11n HT20: Band edge-right side



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 v03r05

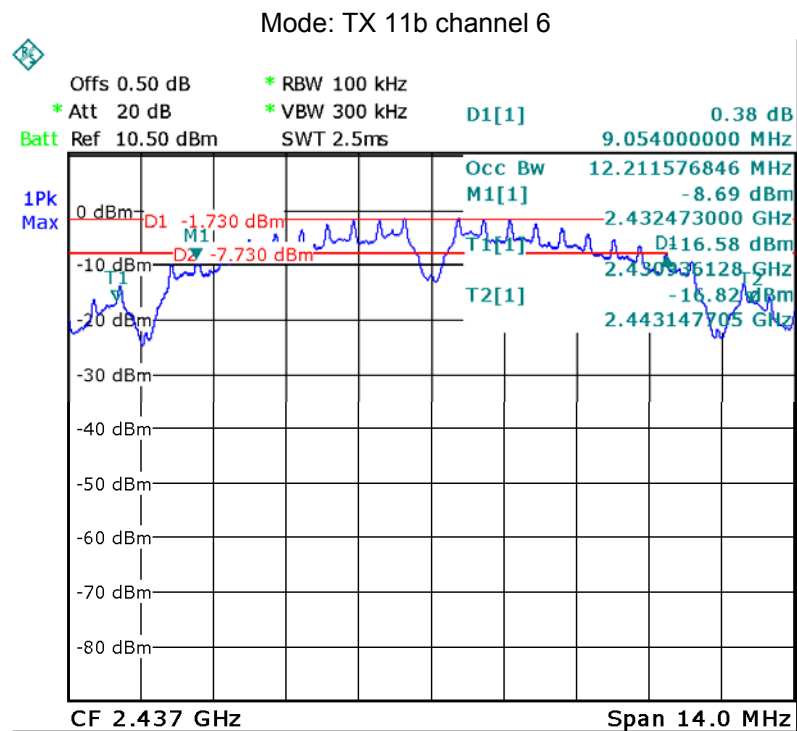
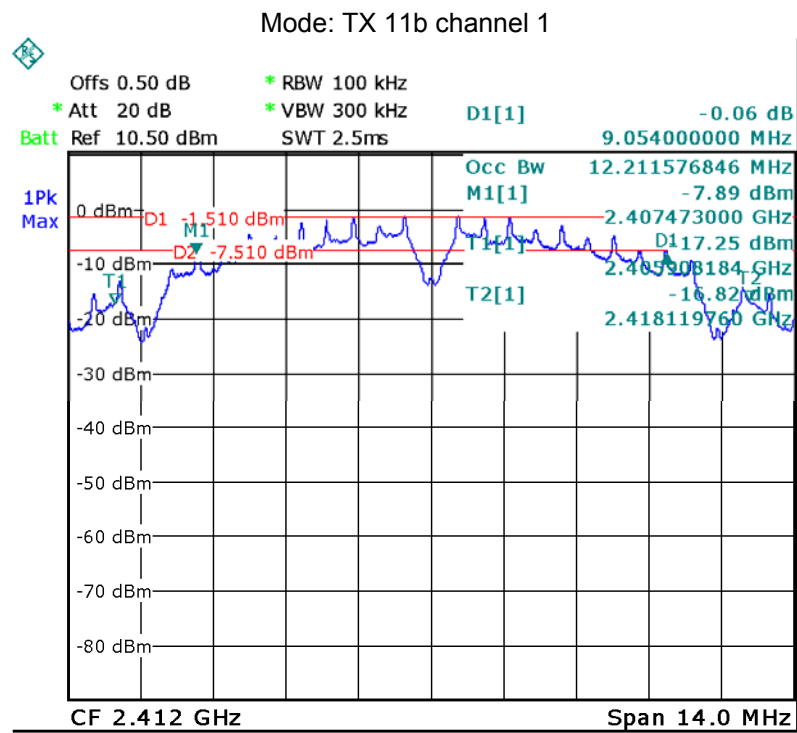
10.1 Test Procedure:

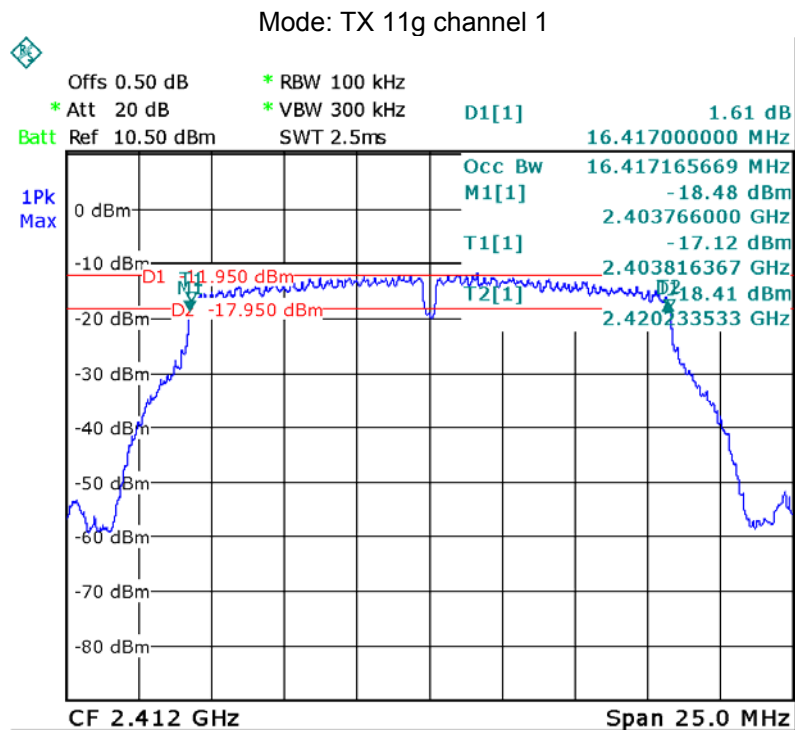
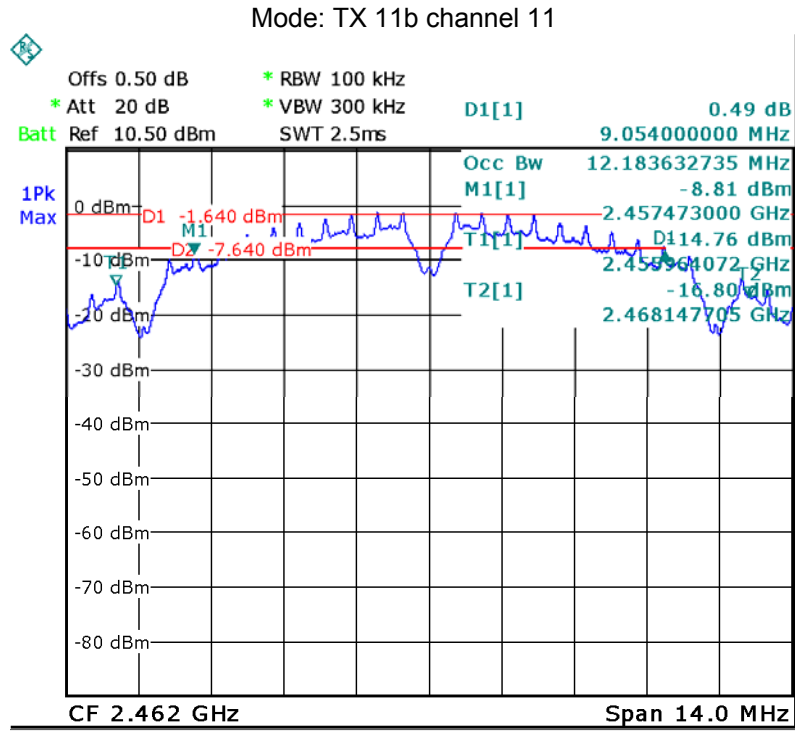
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

10.2 Test Result:

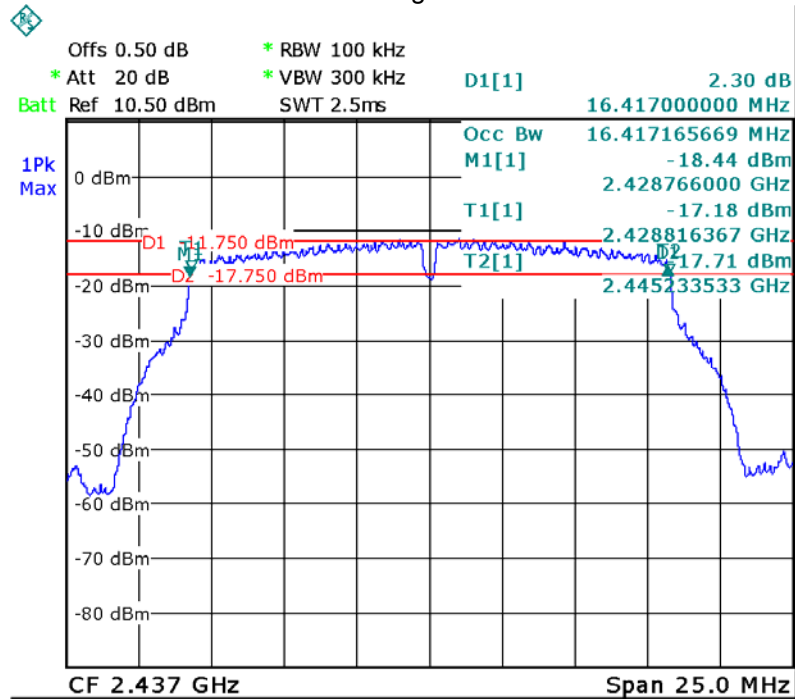
Operation mode	6dB Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	Channel 1	Channel 6	Channel 11
	9.054	9.054	9.054
TX 11g	Channel 1	Channel 6	Channel 11
	16.417	16.417	16.417
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.623	17.623	17.623
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.120	36.120	36.120

Test result plot as follows:

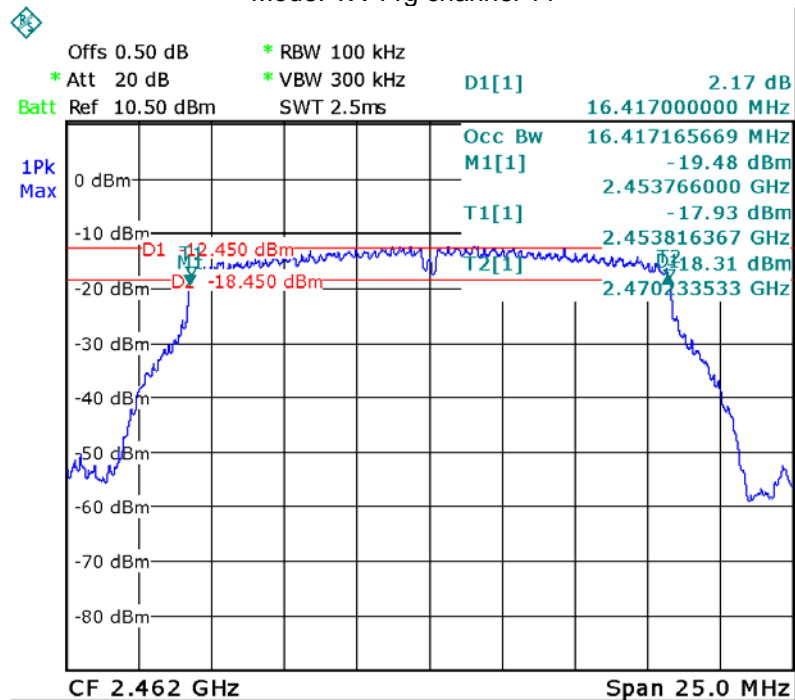




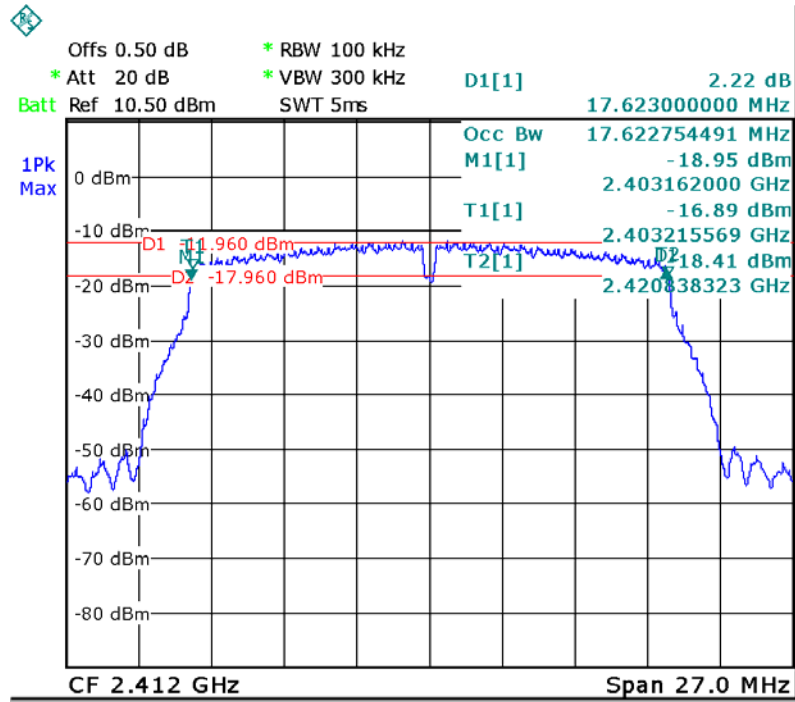
Mode: TX 11g channel 6



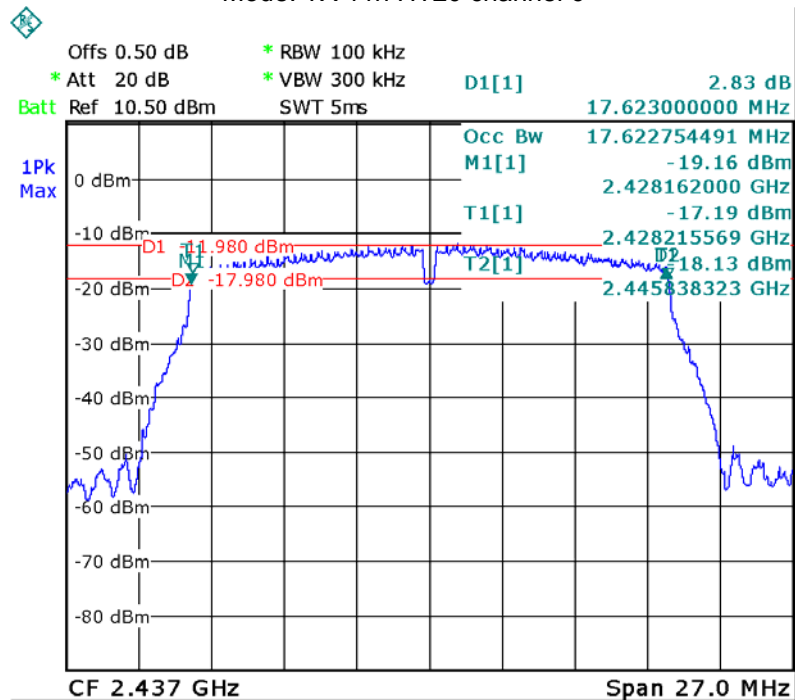
Mode: TX 11g channel 11

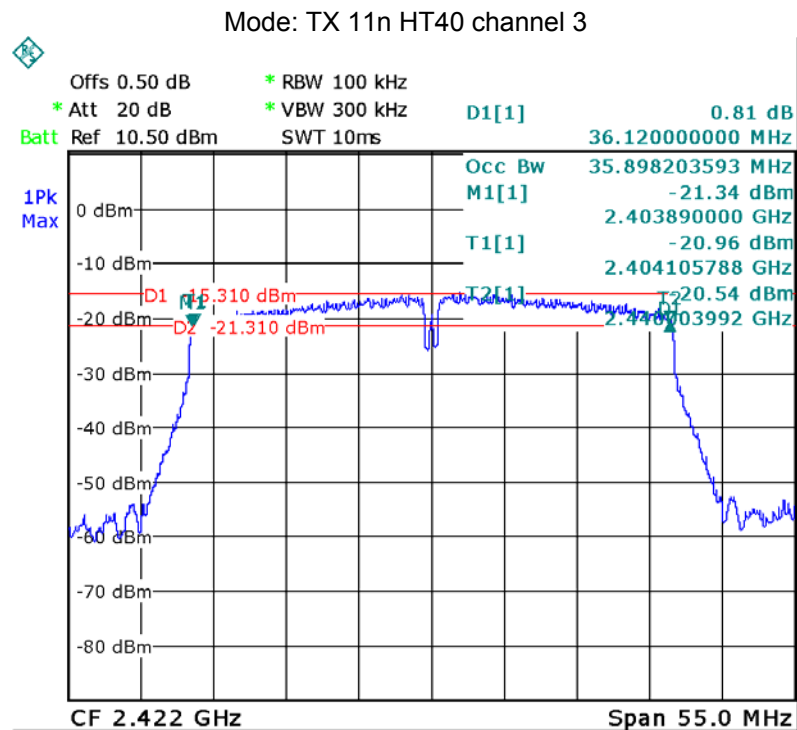
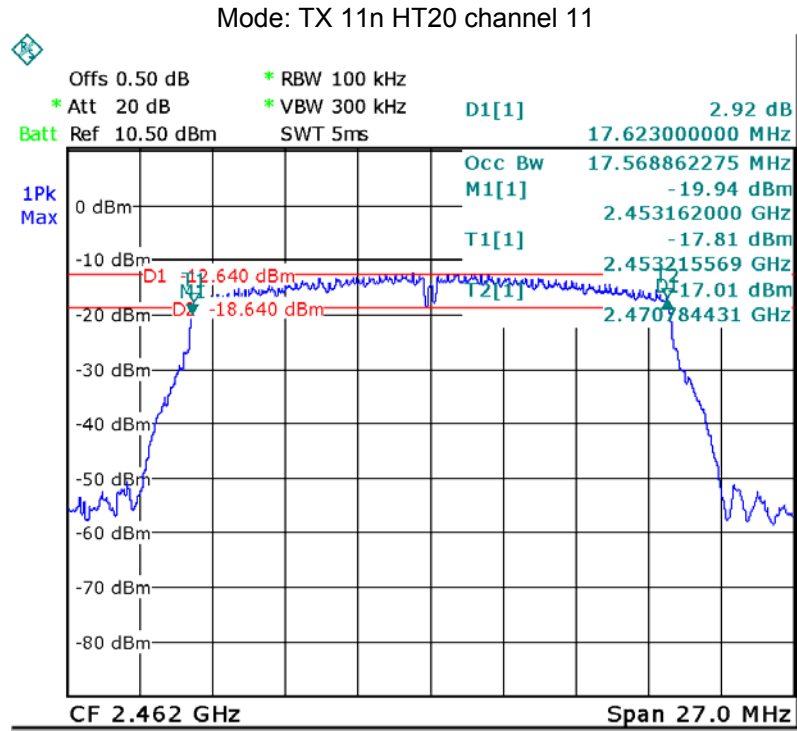


Mode: TX 11n HT20 channel 1

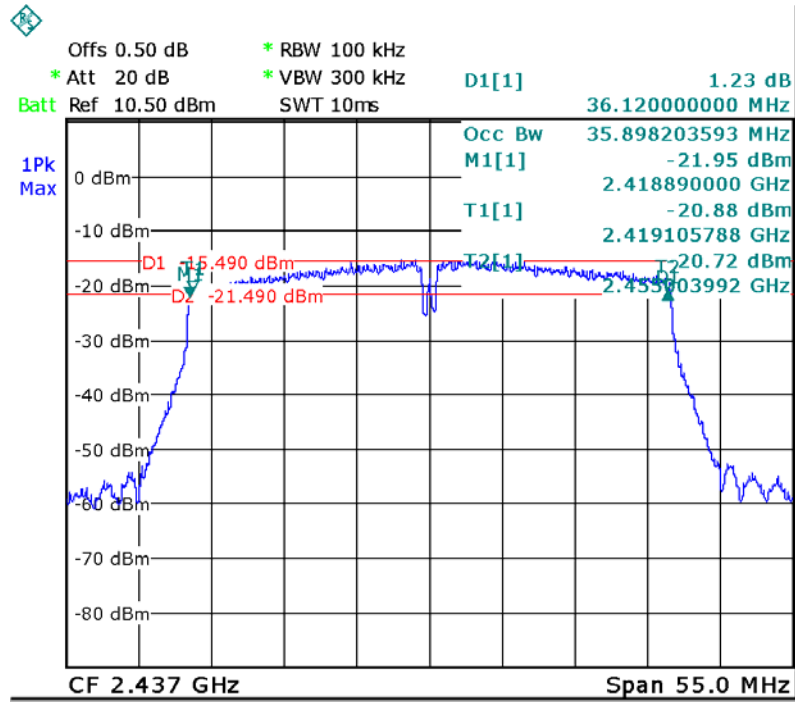


Mode: TX 11n HT20 channel 6

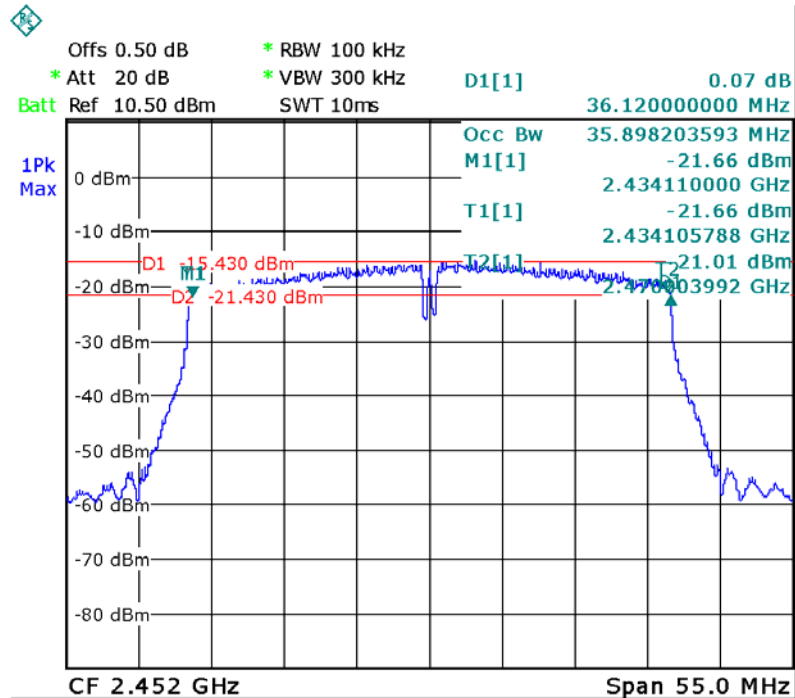




Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 9



11 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v03r05

11.1 Test Procedure:

558074 D01 DTS Meas Guidance v03r05

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 = Peak, 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:

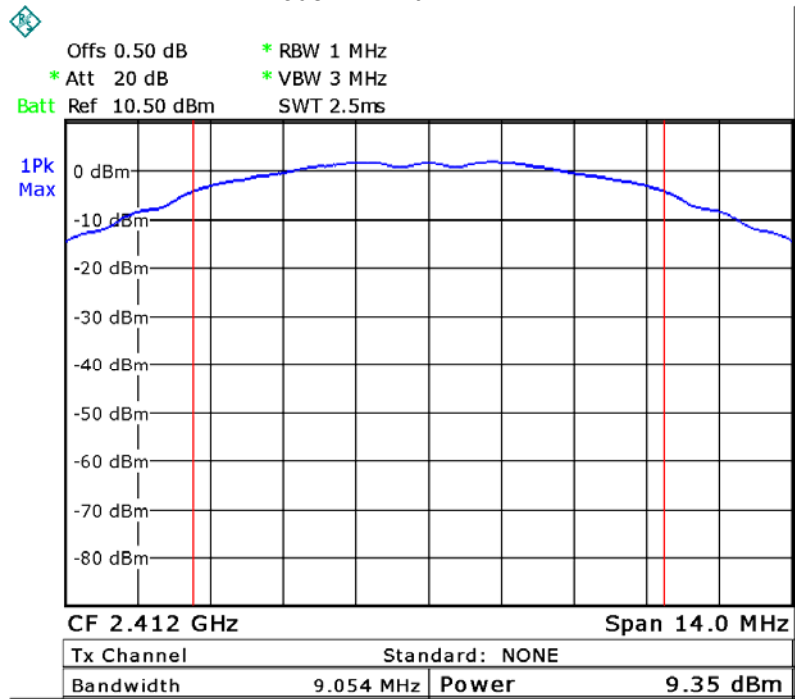
Test mode :TX 11b		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.35	9.39	9.14
Limit: 1W/30dBm		

Test mode :TX 11g		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.08	9.22	9.03
Limit: 1W/30dBm		

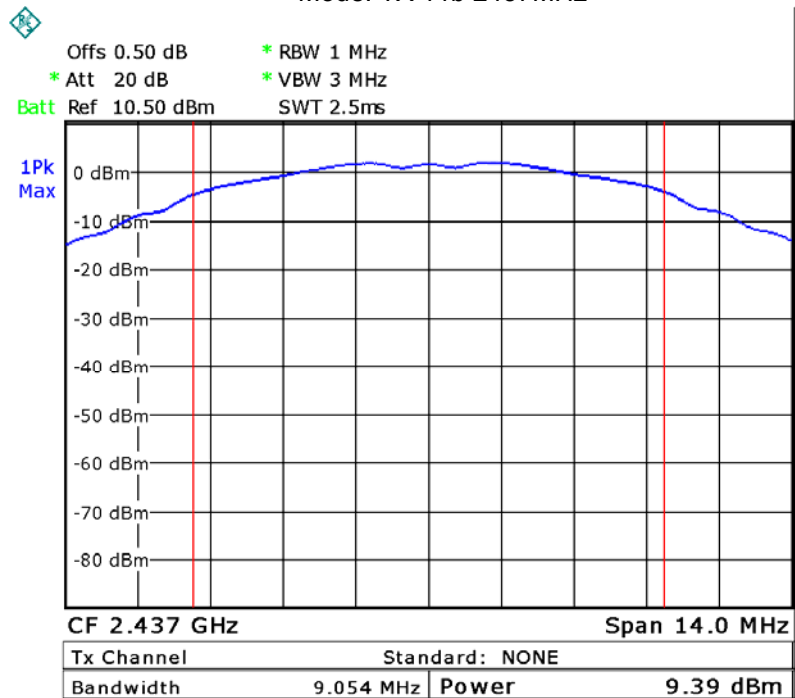
Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.11	9.18	9.34
Limit: 1W/30dBm		

Test mode : TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.33	9.25	9.24
Limit: 1W/30dBm		

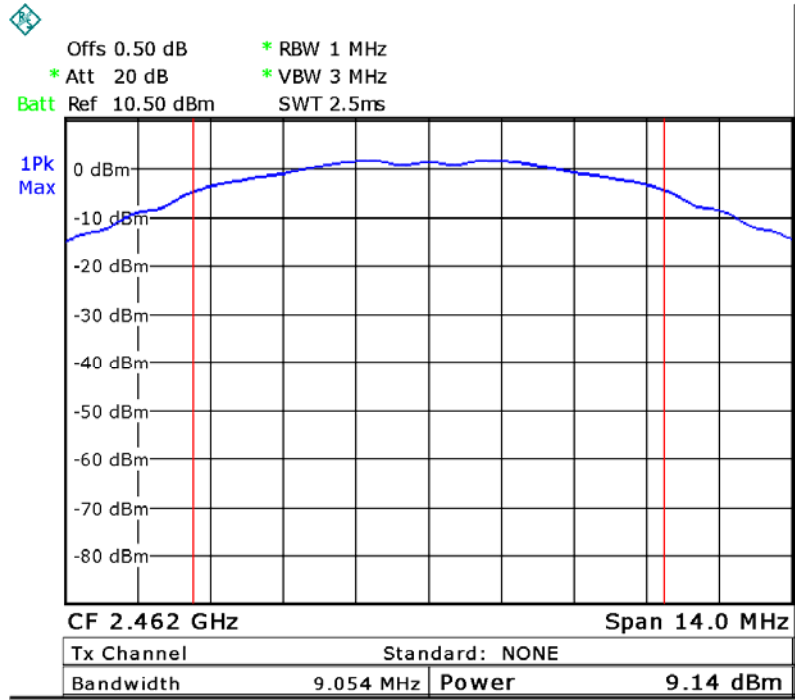
Mode: TX 11b 2412MHz



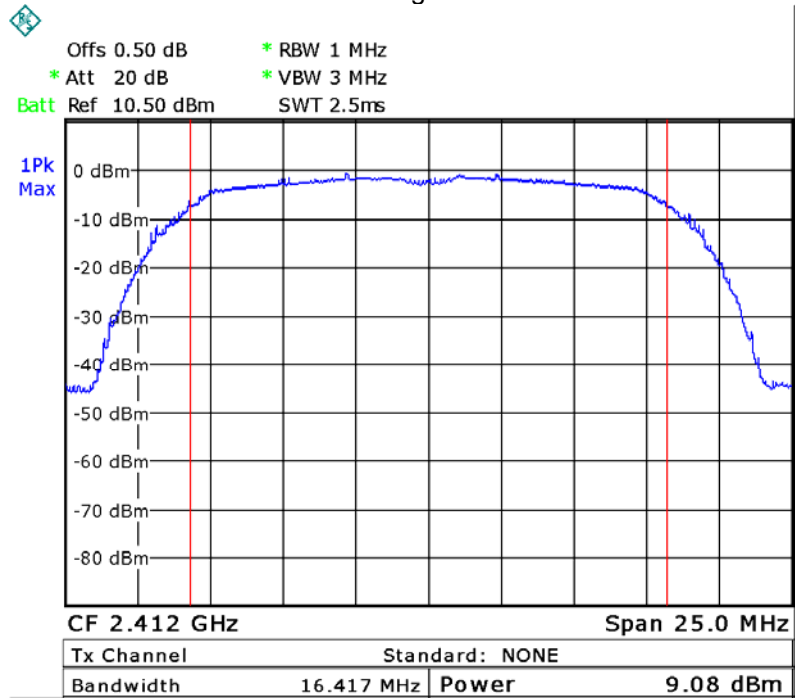
Mode: TX 11b 2437MHz

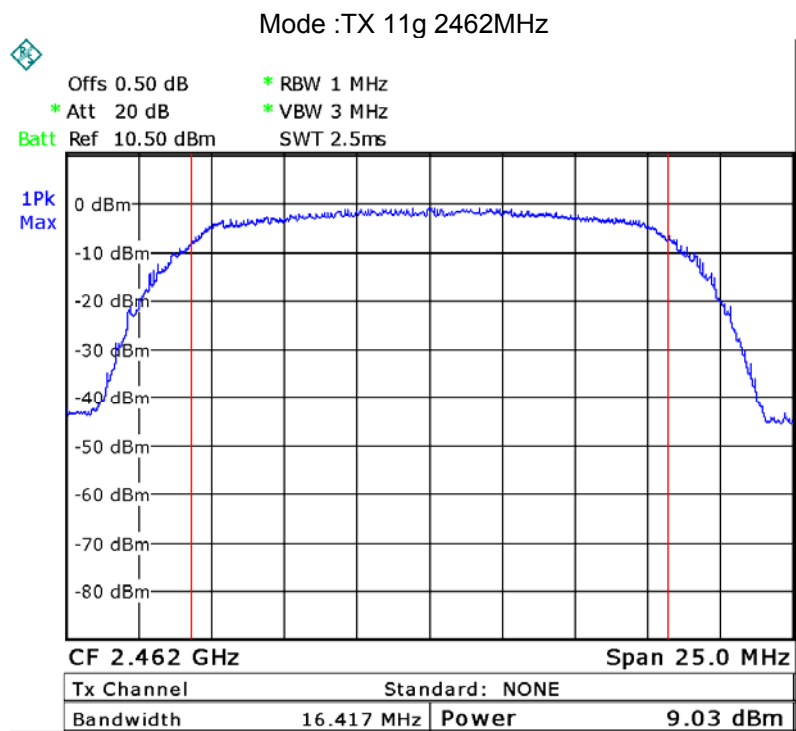
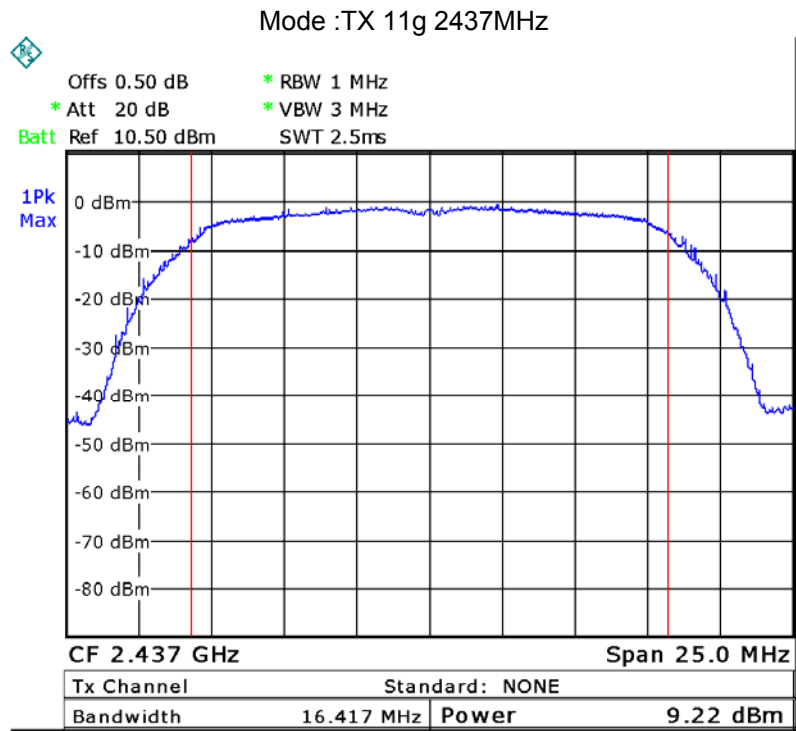


Mode: TX 11b 2462MHz

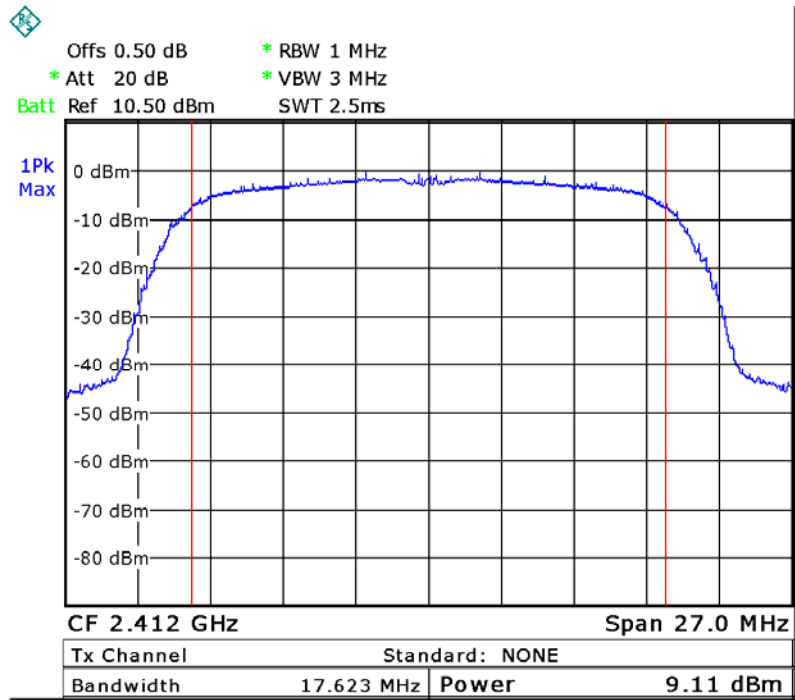


Mode :TX 11g 2412MHz

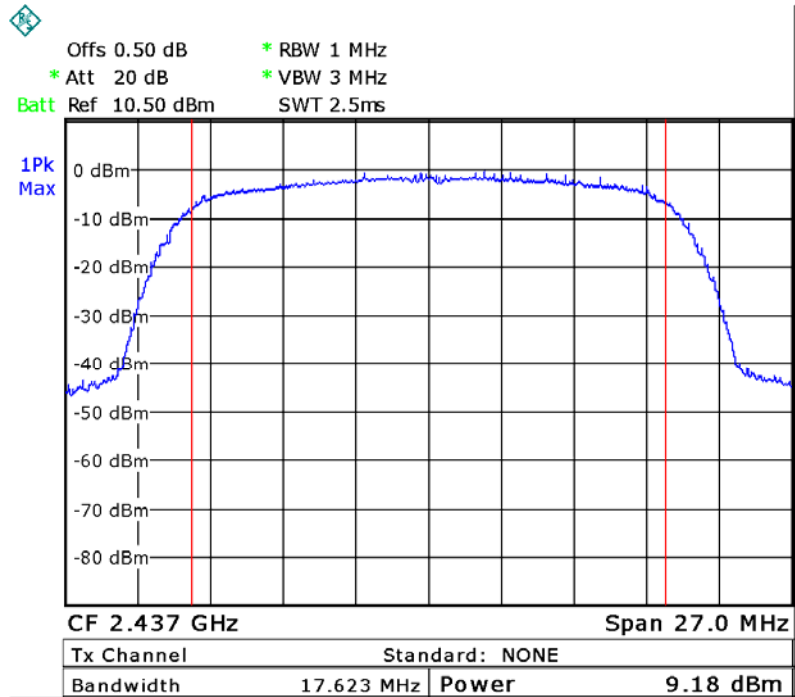




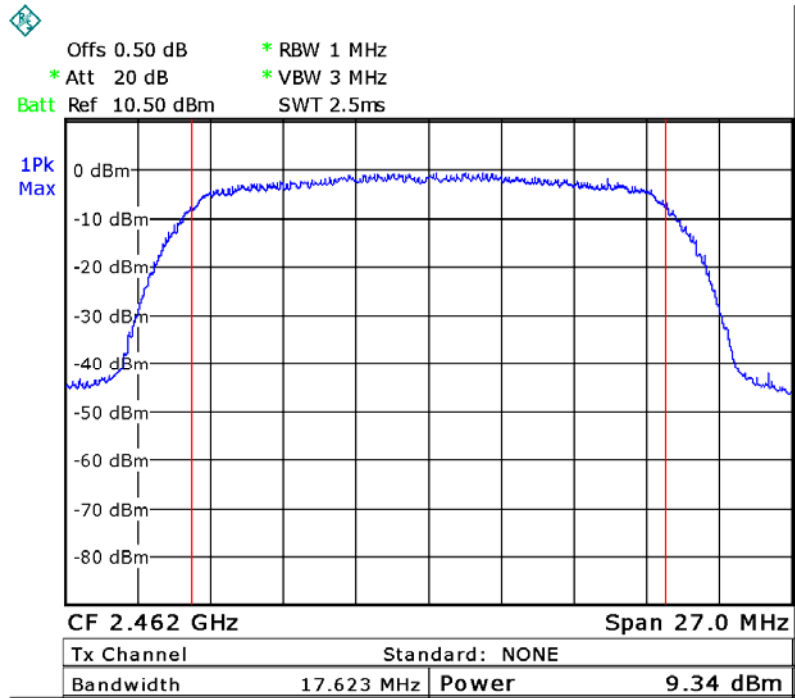
Mode: TX 11n HT20 2412MHz



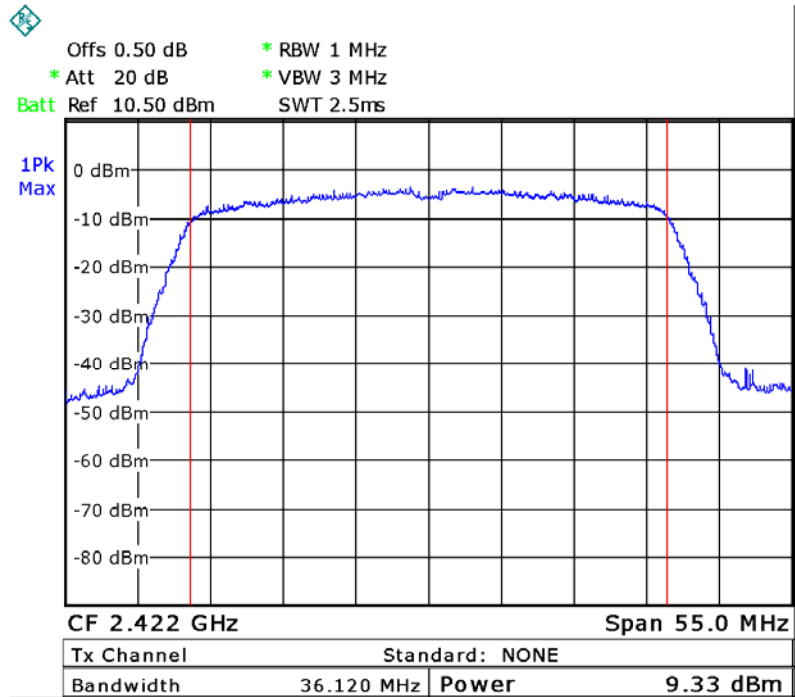
Mode: TX 11n HT20 2437MHz



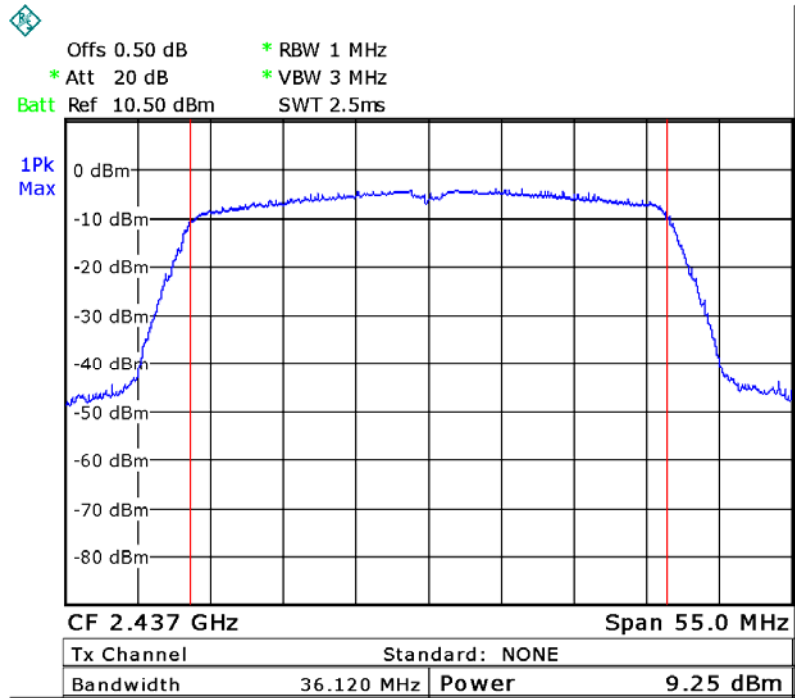
Mode: TX 11n HT20 2462MHz



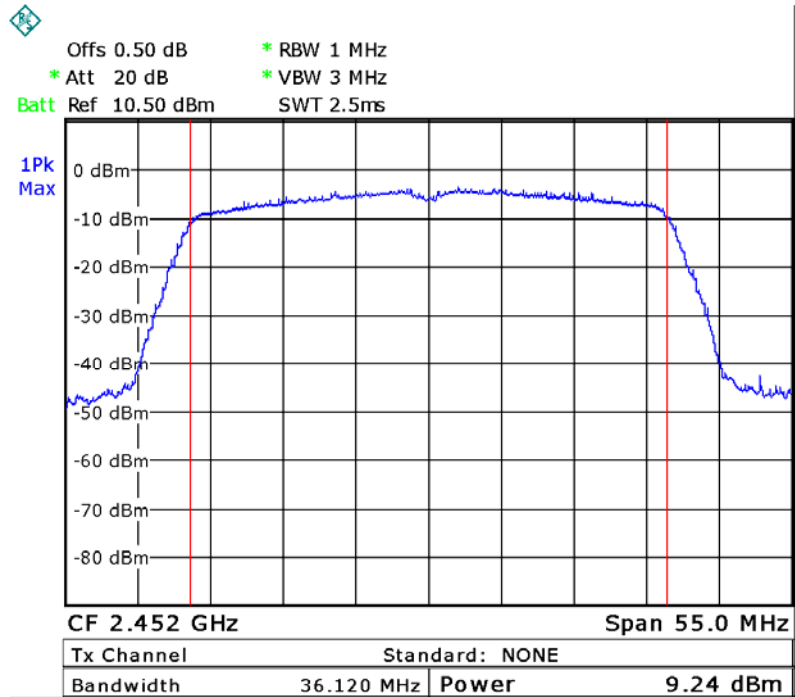
Mode: TX 11n HT40 2422MHz



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 v03r05

12.1 Test Procedure:

558074 D01 DTS Meas Guidance v03r05

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.

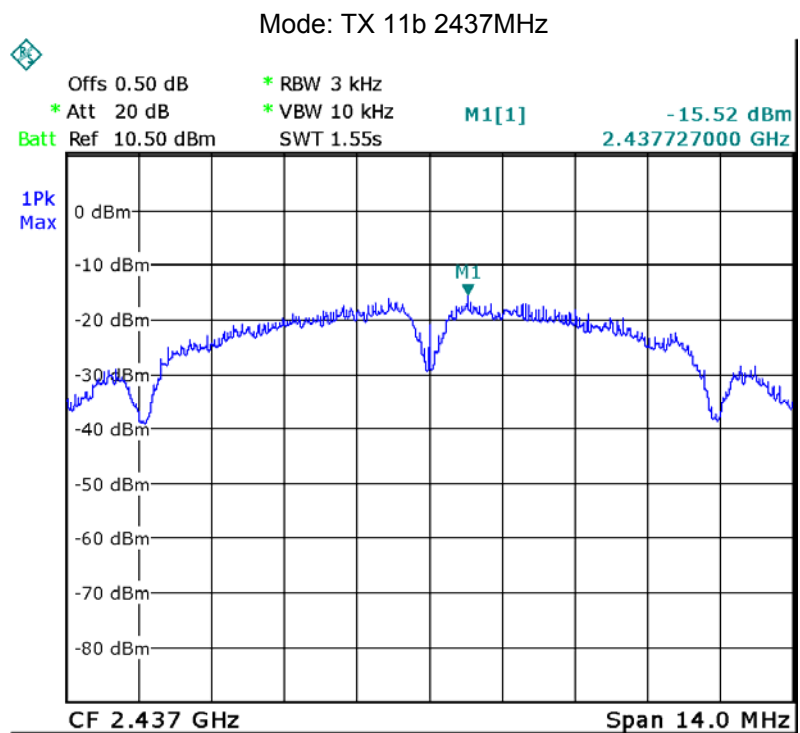
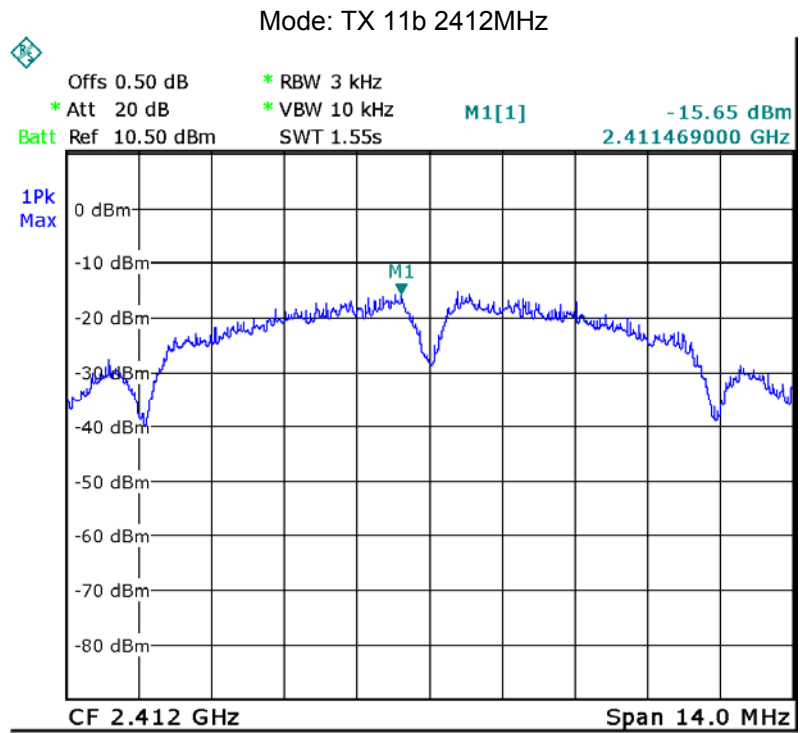
12.2 Test Result:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-15.65	-15.52	-16.16
Limit: 8dBm per 3kHz		

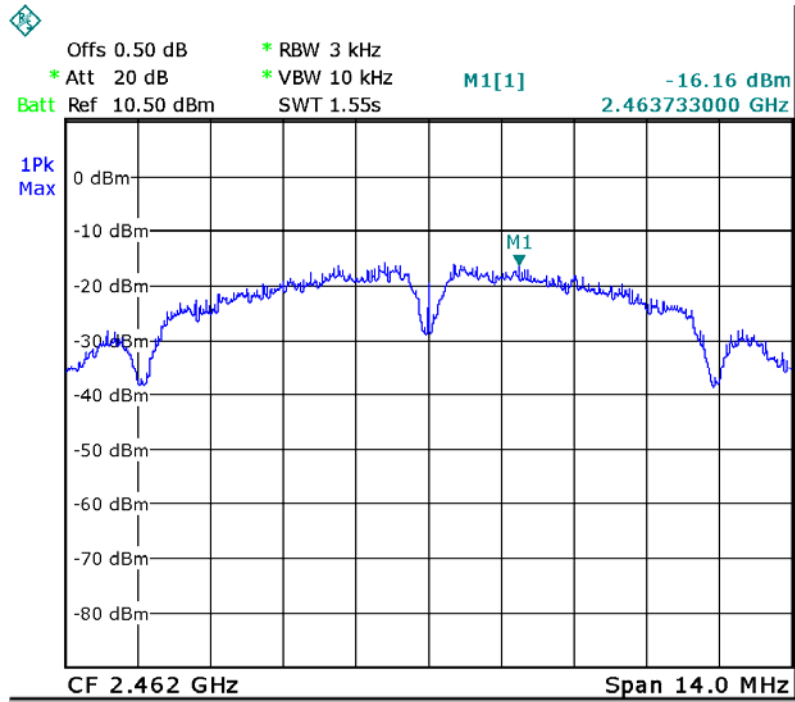
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-23.09	-23.59	-20.08
Limit: 8dBm per 3kHz		

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-23.26	-23.76	-20.11
Limit: 8dBm per 3kHz		

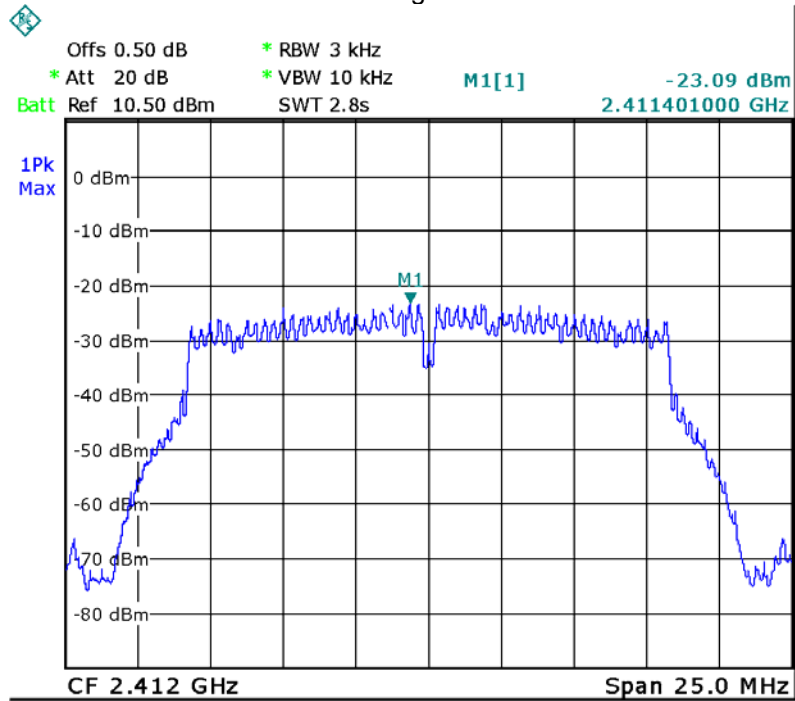
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-22.44	-21.91	-21.13
Limit: 8dBm per 3kHz		



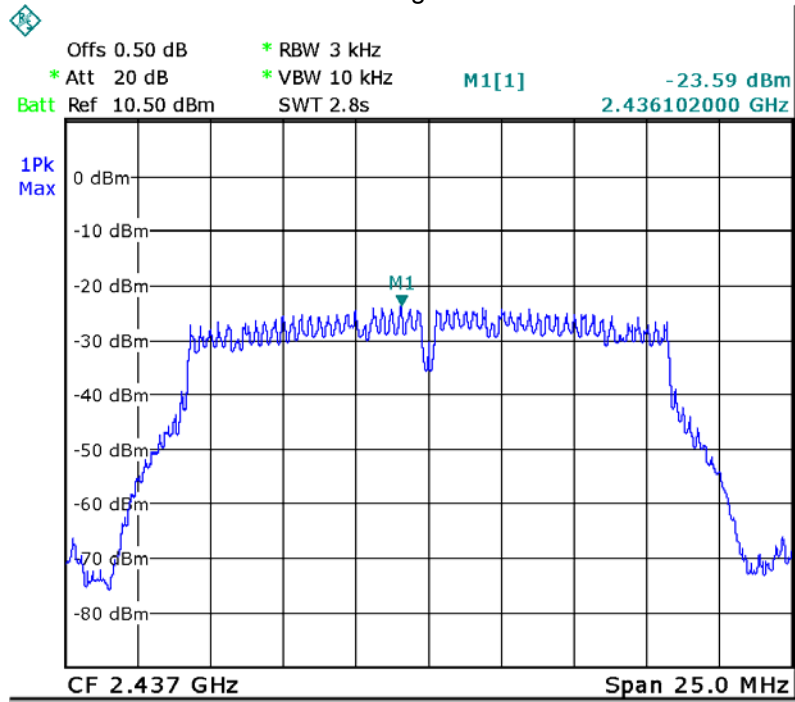
Mode: TX 11b 2462MHz



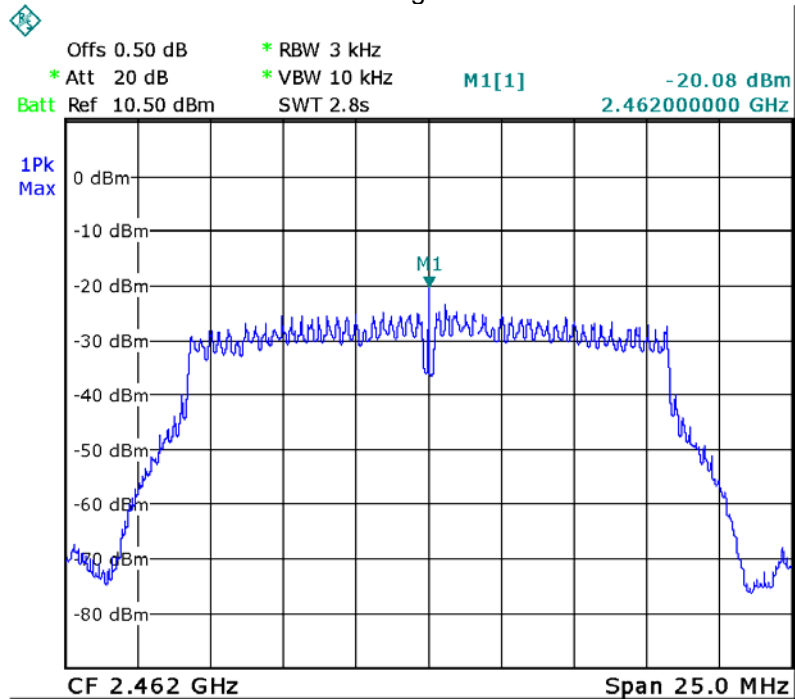
Mode :TX 11g 2412MHz

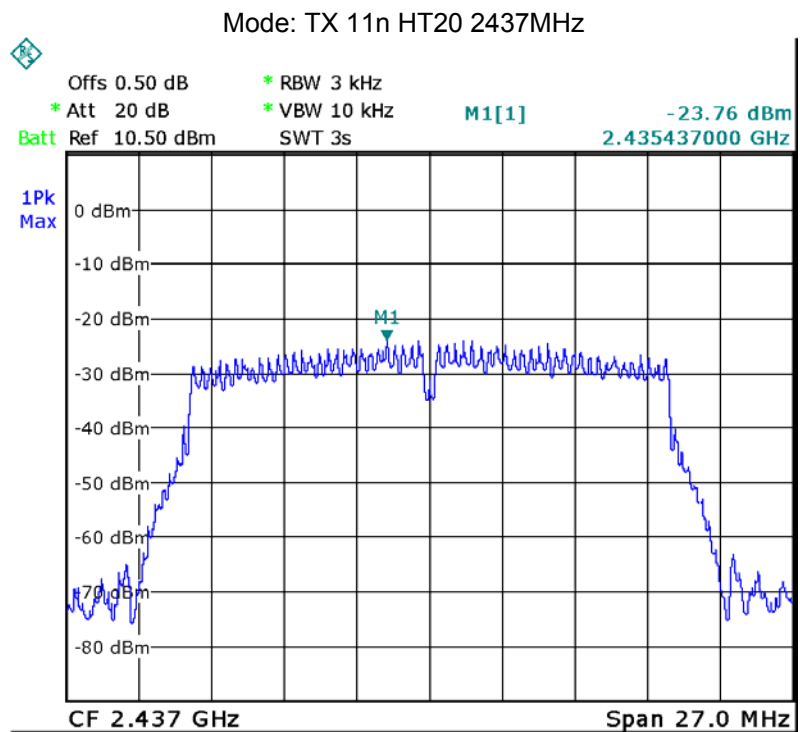
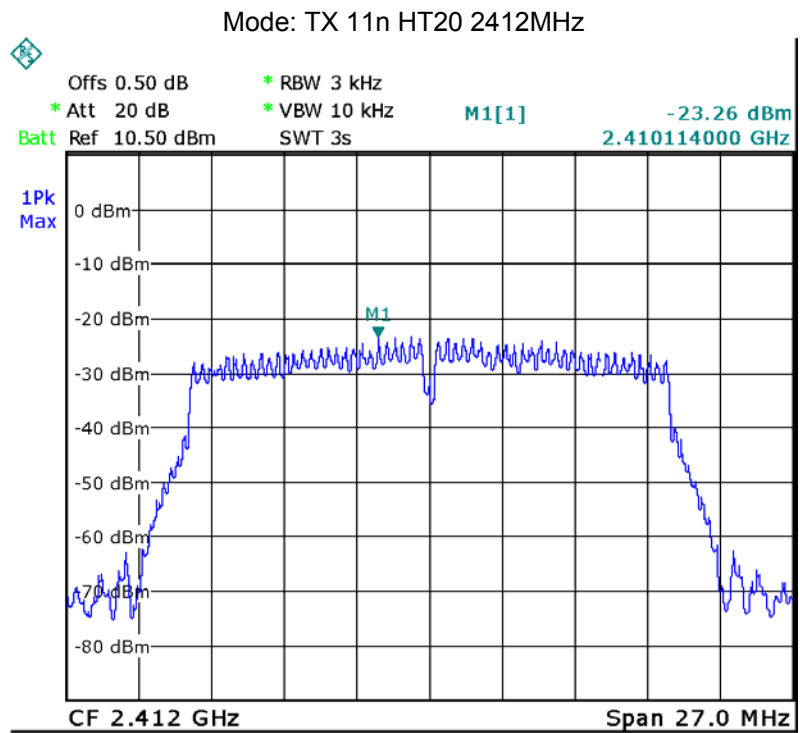


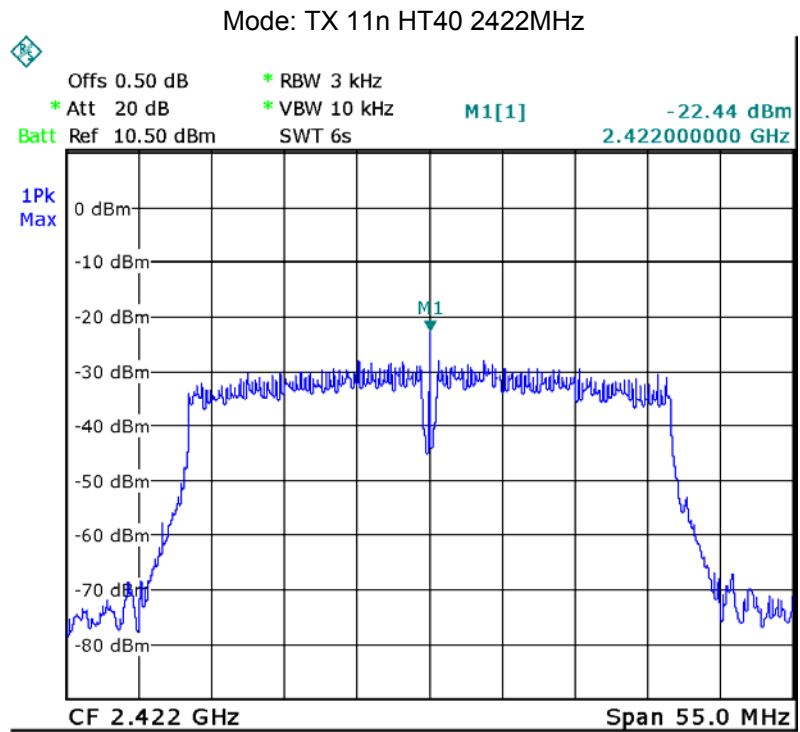
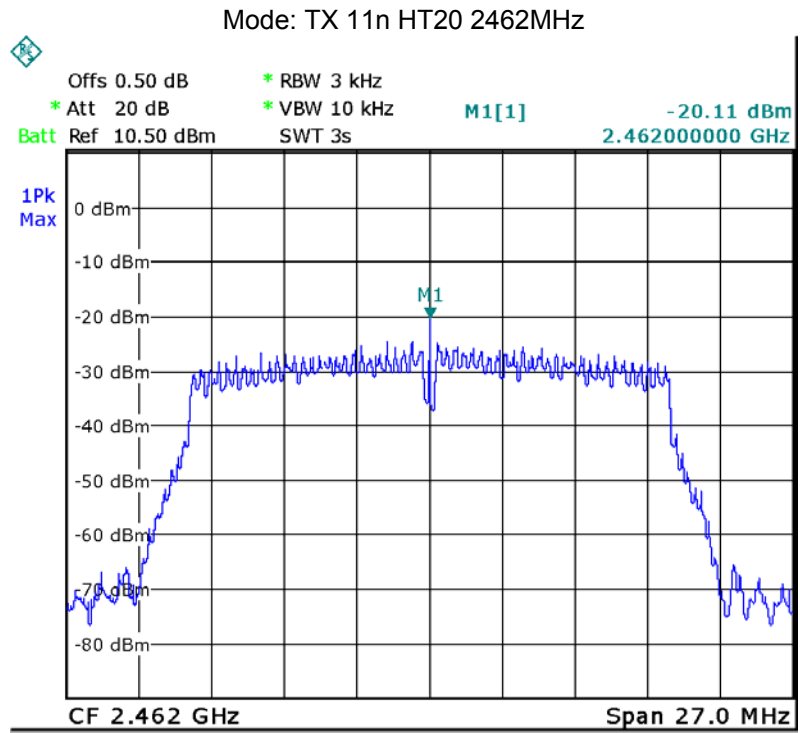
Mode :TX 11g 2437MHz

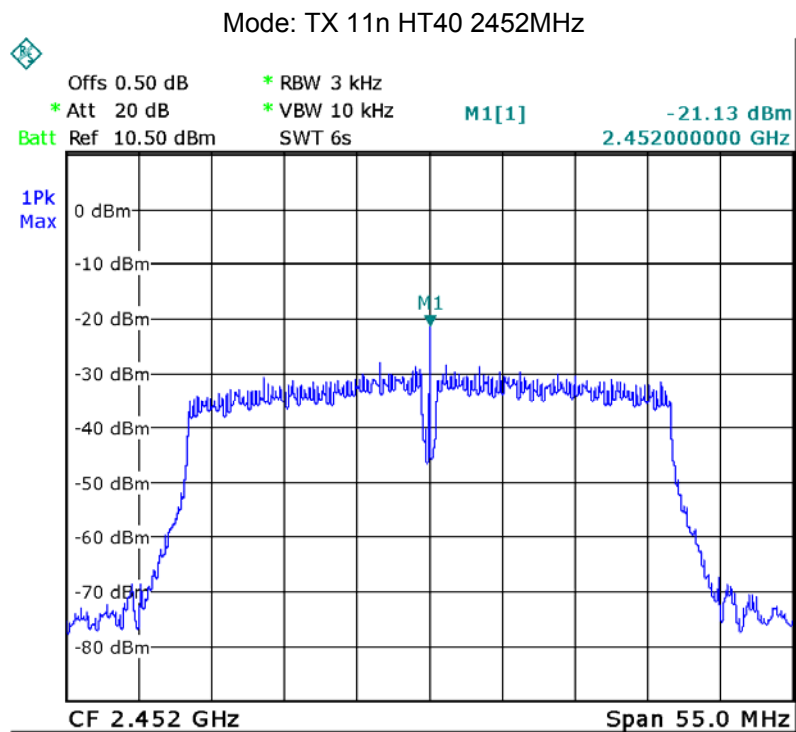
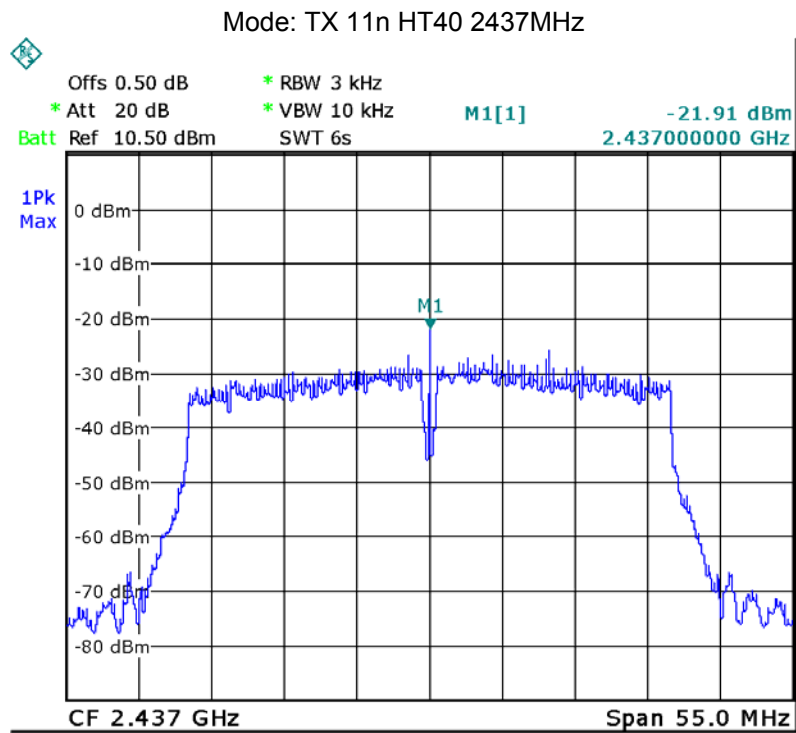


Mode :TX 11g 2462MHz









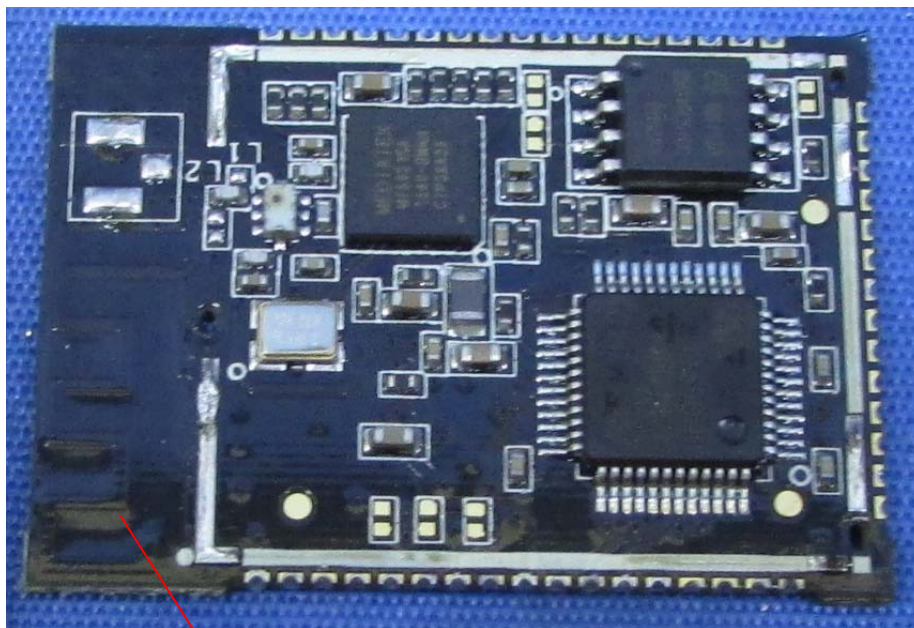
13 Antenna Requirement

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 Antenna, the gain is 2.0 dBi. meets the requirements of FCC 15.203.



ANT

14 RF Exposure

Test Requirement: FCC Part 1.1307

Evaluation Method: FCC Part 2.1091 & KDB 447498 D01 General RF Exposure Guidance v06

14.1 Requirements

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 0.2 m normally can be maintained between the user and the device.

14.2 The procedures / limit

(A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			F/300	6
1500-100,000			5	6

(B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm ²)	Averaging Time E ² , H ² or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			F/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz ; *Plane-wave equivalent power density

14.3 MPE Calculation Method

$$S = \frac{P \times G}{4 \times \pi \times R^2}$$

S = power density (in appropriate units, e.g. mW/cm²)

P = output power to the antenna (in appropriate units, e.g., mW).

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain.

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm)

From the peak EUT RF output power, the minimum mobile separation distance, R=20cm, as well as the gain of the used antenna, the RF power density can be obtained

Antenna Gain (dBi)	Antenna Gain (numeric)	Maximum Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (mW/cm ²)	Limit of Power Density (mW/cm ²)	Result
2.0	1.585	9.39	8.690	0.00274	1	Compliance

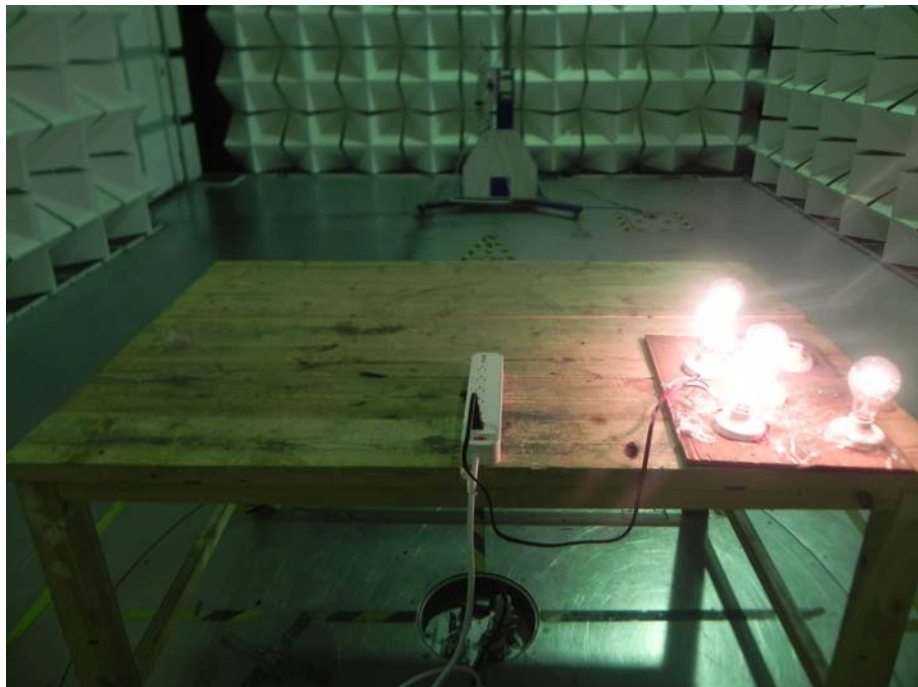
15 Photographs – Model SOW014 Test Setup

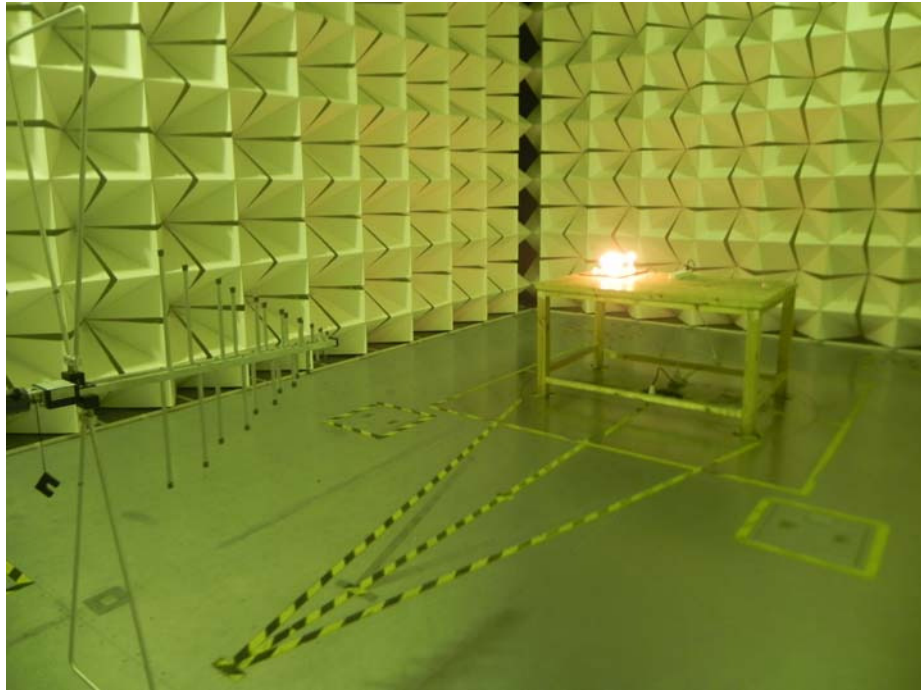
15.1 Radiated Emission

Test frequency 32.768KHz to 30MHz at Test Site 2#



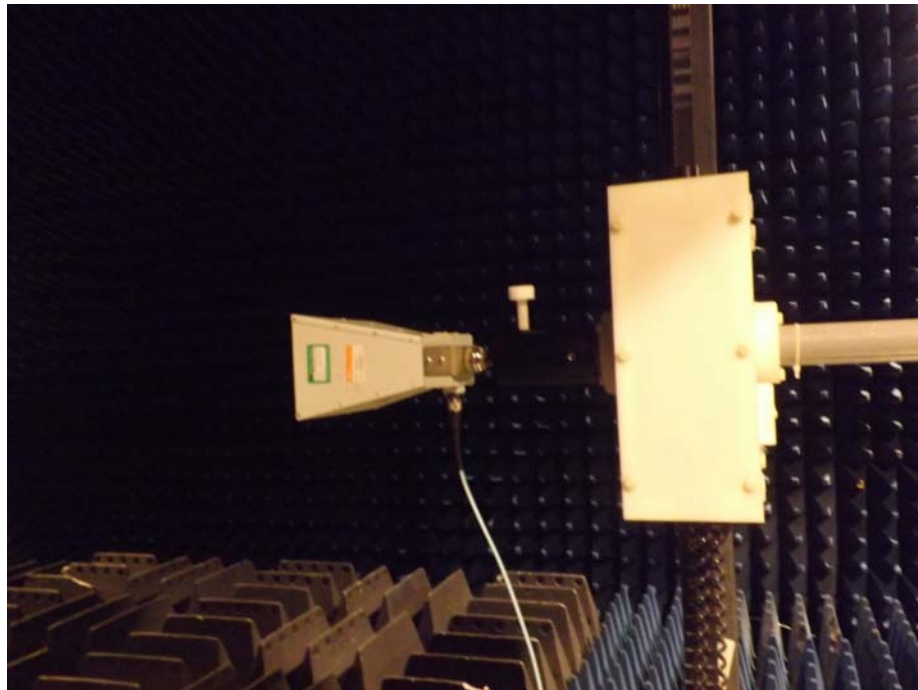
Test frequency from 30MHz to 1GHz at Test Site 2#





Test frequency above 1GHz at Test Site 1#





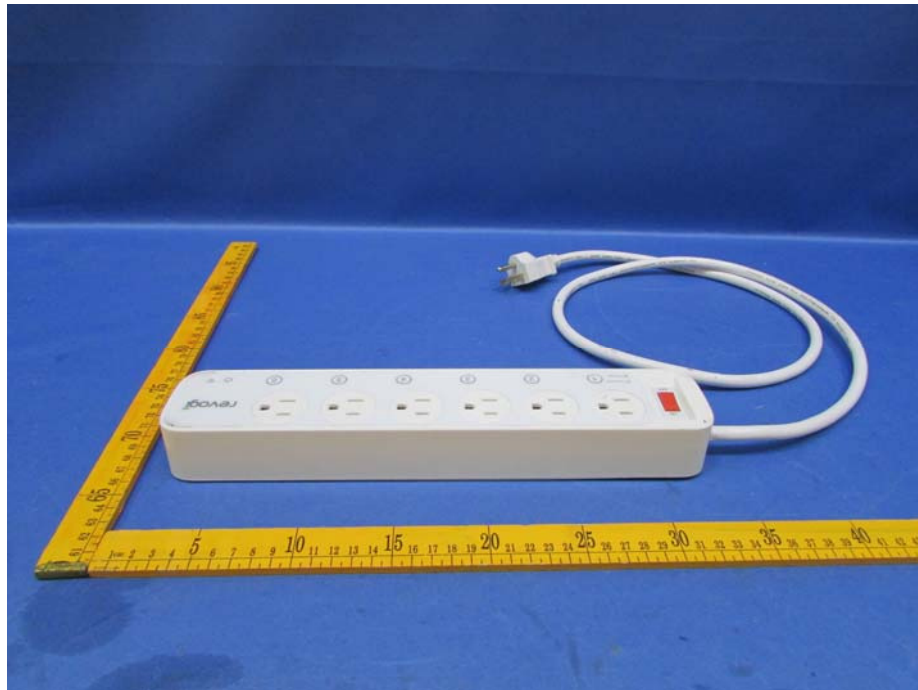
15.2 Conducted Emission at Test Site 1#



16 Photographs - Constructional Details

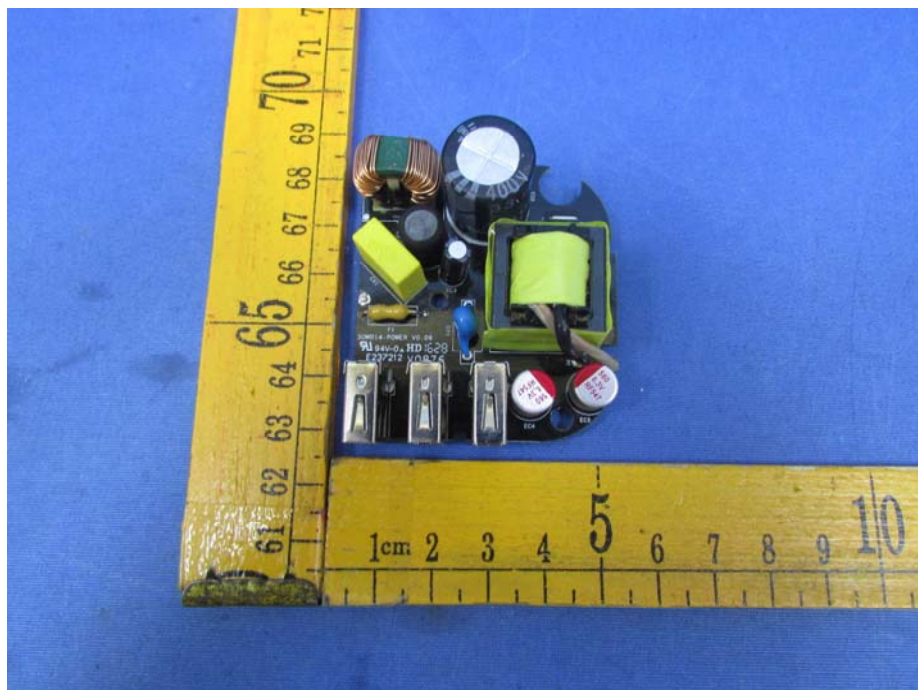
16.1 Model SOW014-External Photos

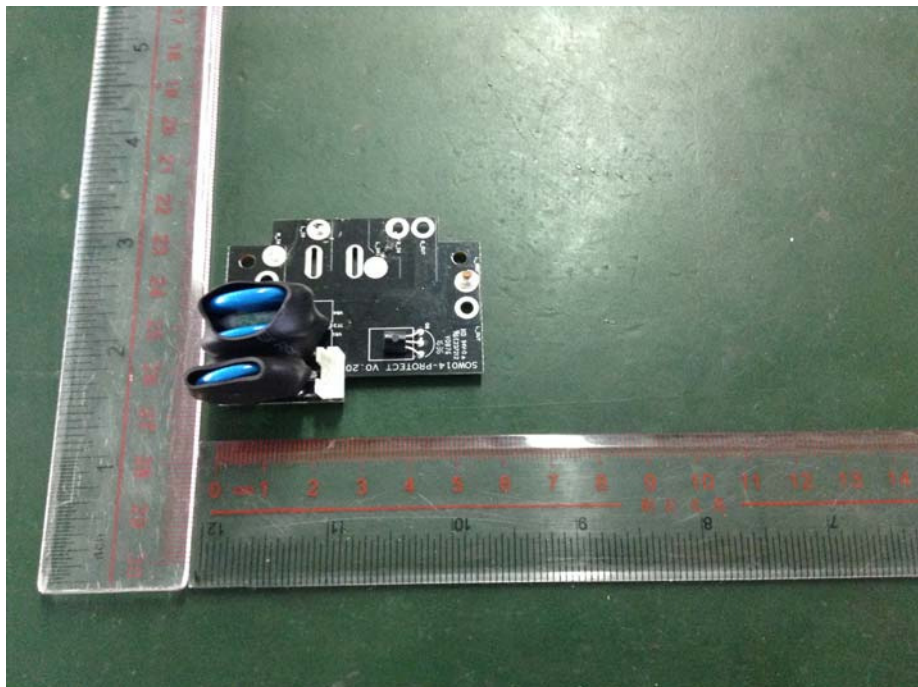
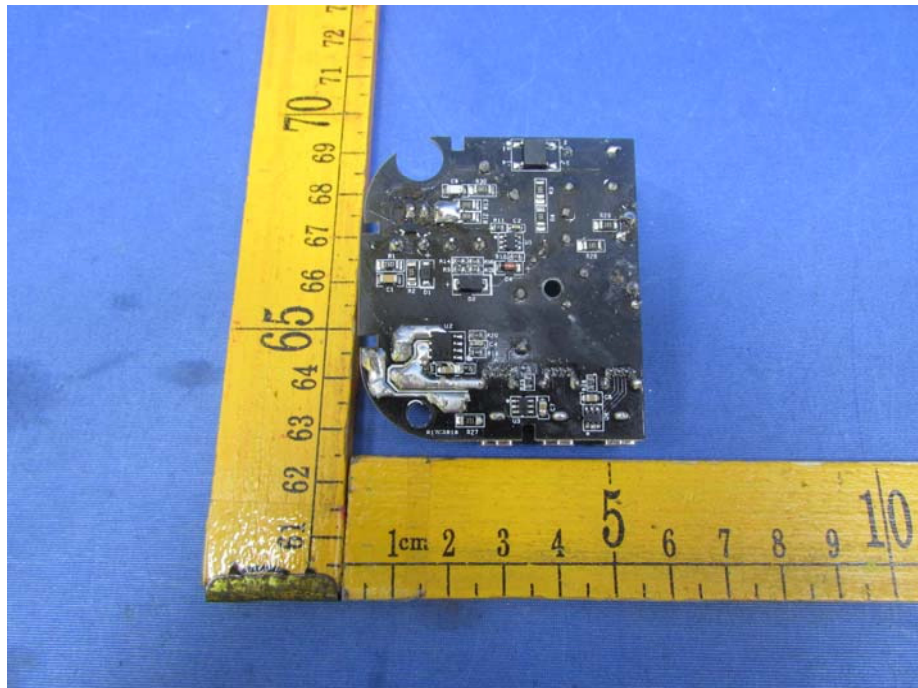


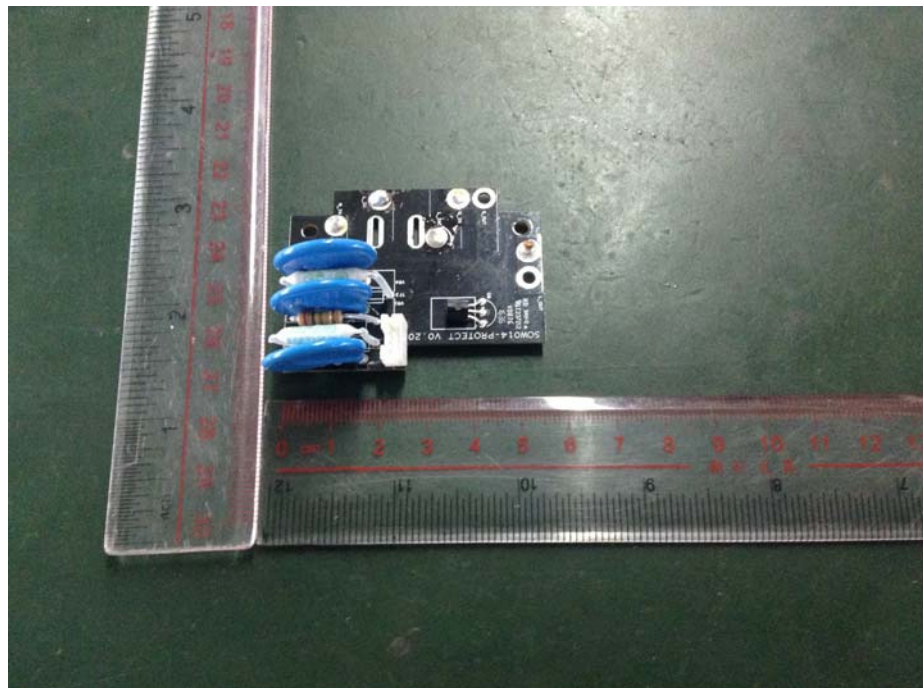


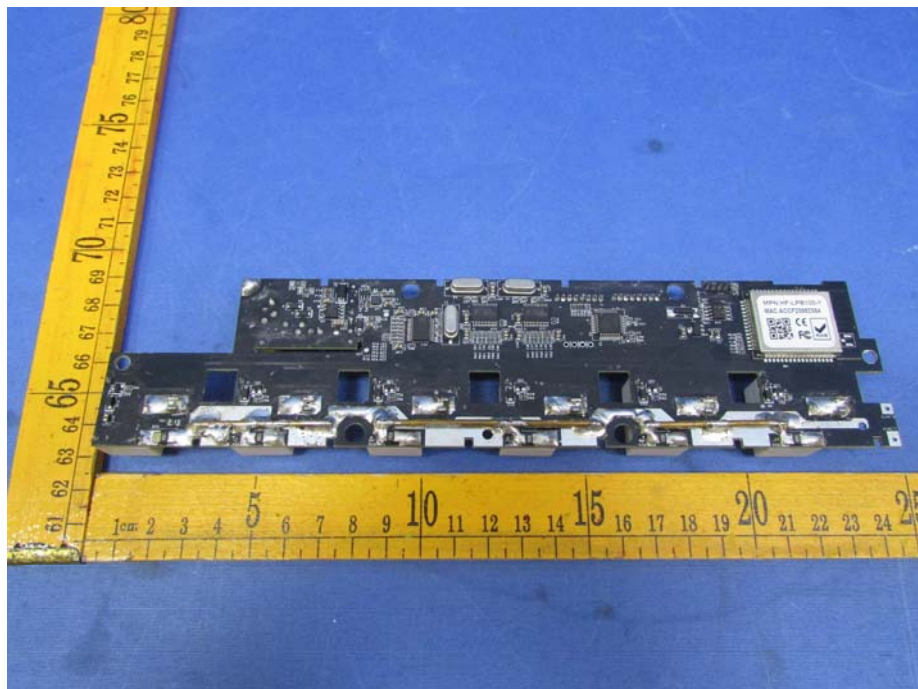
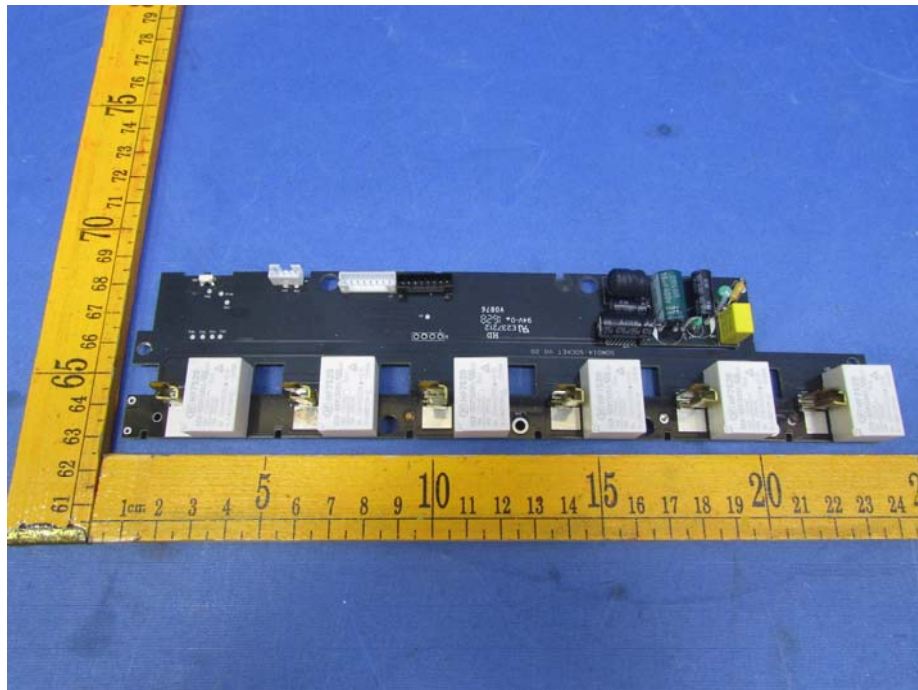


16.2 Model SOW014-Internal Photos

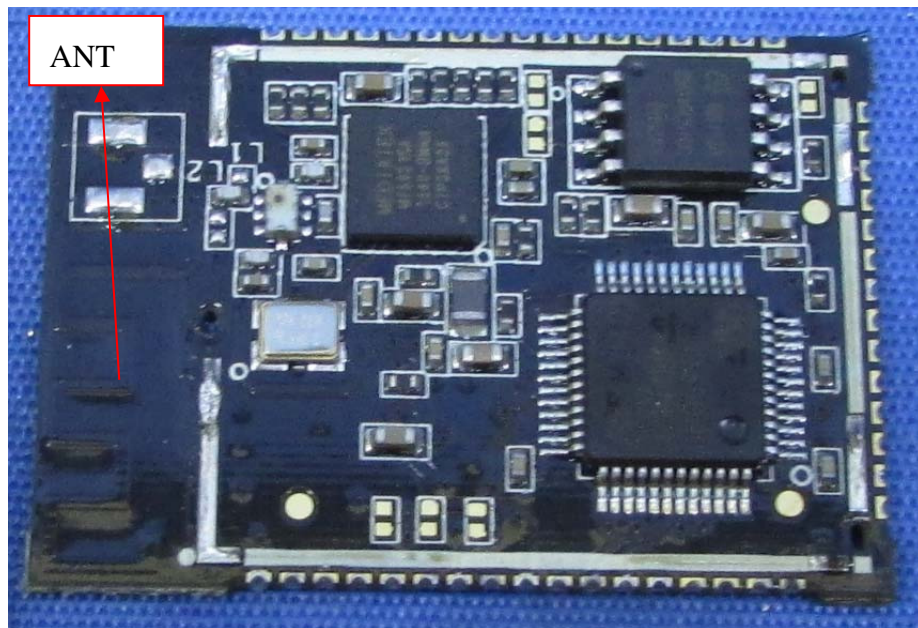
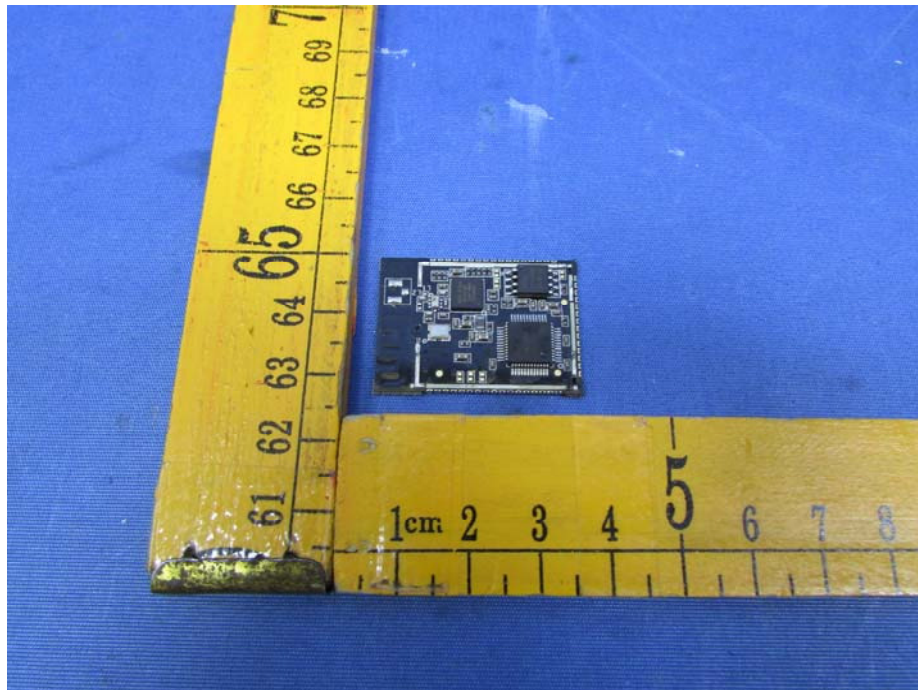


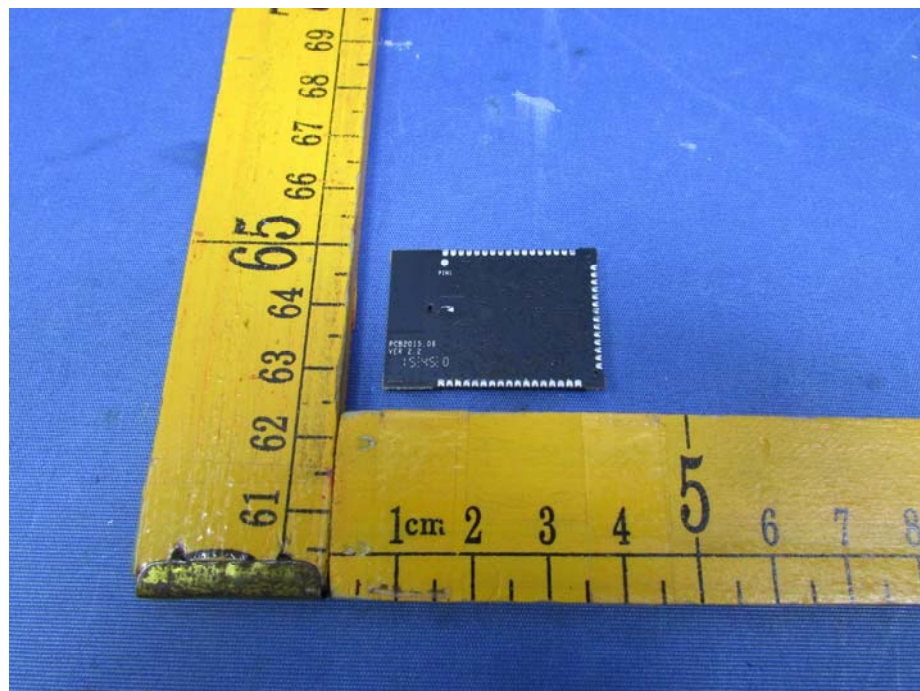












====End of Report====