

TEST REPORT

Reference No. : WTU16S0857382E
FCC ID..... : 2AHCK-ELST4316S
Applicant..... : ANHUI KONKA ELECTRONIC CO., LTD
Address..... : NO.999, ZhongDu Road, Chu Zhou, An Hui, China
Manufacturer 1..... : ANHUI KONKA ELECTRONIC CO., LTD
Address..... : NO.999, ZhongDu Road, Chu Zhou, An Hui, China
Manufacturer 2..... : Element TV company LP
Address..... : 392 US Highway 321 Bypass North. Winnsboro. South Carolina 29180
Product Name..... : 43" FHD Digital LED TV
Model No...... : ELST4316S
Standards..... : FCC CFR47 Part 15 C Section 15.247:2015
Date of Receipt sample.. : Aug. 02, 2016
Date of Test..... : Aug. 03 – Sep. 28, 2016
Date of Issue..... : Oct. 14, 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.

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2 Contents

	Page
1 COVER PAGE.....	1
2 CONTENTS	2
3 GENERAL INFORMATION.....	4
3.1 GENERAL DESCRIPTION OF E.U.T.	4
3.2 DETAILS OF E.U.T.	4
3.3 CHANNEL LIST.....	4
3.4 TEST MODE.....	5
3.5 TEST FACILITY.....	5
4 EQUIPMENT USED DURING TEST	6
4.1 EQUIPMENT'S LIST	6
4.2 MEASUREMENT UNCERTAINTY	7
4.3 TEST EQUIPMENT CALIBRATION	7
5 TEST SUMMARY	8
6 CONDUCTED EMISSION	9
6.1 E.U.T. OPERATION	9
6.2 EUT SETUP.....	9
6.3 MEASUREMENT DESCRIPTION	9
6.4 CONDUCTED EMISSION TEST RESULT	10
7 RADIATED EMISSIONS.....	12
7.1 EUT OPERATION.....	12
7.2 TEST SETUP	13
7.3 SPECTRUM ANALYZER SETUP	14
7.4 TEST PROCEDURE	15
7.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	15
7.6 SUMMARY OF TEST RESULTS	16
8 BAND EDGE MEASUREMENT	28
8.1 TEST PROCEDURE.....	28
8.2 TEST RESULT	29
9 BANDWIDTH MEASUREMENT.....	33
9.1 TEST PROCEDURE:	33
9.2 TEST RESULT:.....	33
10 MAXIMUM PEAK OUTPUT POWER.....	40
10.1 TEST PROCEDURE:.....	40
10.2 TEST RESULT:	40
11 POWER SPECTRAL DENSITY	47
11.1 TEST PROCEDURE:.....	47
11.2 TEST RESULT:	47
12 ANTENNA REQUIREMENT	54
13 RF EXPOSURE.....	55
13.1 REQUIREMENTS.....	55
13.2 THE PROCEDURES / LIMIT.....	55
13.3 MPE CALCULATION METHOD	56
14 PHOTOGRAPHS – MODEL ELST4316S TEST SETUP	57
14.1 RADIATED EMISSION	57
14.2 CONDUCTED EMISSION AT TEST SITE 1#.....	60

15	PHOTOGRAPHS - CONSTRUCTIONAL DETAILS	61
15.1	MODEL ELST4316S -EXTERNAL PHOTOS	61
15.2	MODEL ELST4316S -INTERNAL PHOTOS.....	66

3 General Information

3.1 General Description of E.U.T.

Product Name:	43" FHD Digital LED TV
Model No.:	ELST4316S
Model Difference:	N/A
Operation Frequency:	802.11b/g/n HT20: 2412MHz ~ 2462MHz, 802.11n HT40: 2422MHz~2452MHz
The Lowest Oscillator:	24MHz
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.)

3.2 Details of E.U.T.

Technical Data:	Input Power: AC 120V~ 50/60Hz, 75W
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3.3 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	-

3.4 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 .

3.5 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.

4 Equipment Used during Test

4.1 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.12, 2016	Sep.11, 2017
2.	LISN	R&S	ENV216	100115	Sep.12, 2016	Sep.11, 2017
3.	Cable	Top	TYPE16(3.5M)	-	Sep.12, 2016	Sep.11, 2017
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.12, 2016	Sep.11, 2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12, 2016	Sep.11, 2017
3.	Limitter	York	MTS-IMP-136	261115-001-0024	Sep.12, 2016	Sep.11, 2017
4.	Cable	LARGE	RF300	-	Sep.12, 2016	Sep.11, 2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	Apr.29, 2016	Apr.28, 2017
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	0703	Oct.17, 2015	Oct.16, 2016
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	33 6	Apr.09, 2016	Apr.08, 2017
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.12, 2016	Sep.11, 2017
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.09, 2016	Apr.08, 2017
6	Broad-band Horn Antenna (FCC/IC ID 才放)	SCHWARZBECK	BBHA 9170	335	Apr.09, 2016	Apr.08, 2017
7	Broadband Preampfier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.13, 2016	Apr.12, 2017
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.13, 2016	Apr.12, 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	Apr.13, 2016	Apr.12, 2017
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09, 2016	Apr.08, 2017
3	Amplifier	ANRITSU	MH648A	M43381	Apr.13, 2016	Apr.12, 2017
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13, 2016	Apr.12, 2017

RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	Signal Generator	R&S	SMB100A	105942	Sep.12, 2016	Sep.11, 2017
2.	RF Power Amplifier	BONN Elektronik	BLWA0830-160/100/40D	128740	Sep.12, 2016	Sep.11, 2017
3.	Gestockte Breitband (S tacked) Log.-per.Antenna	SCHWARZBECK	STLP9128D	043	Sep.12, 2016	Sep.11, 2017
4.	Power Meter	R&S	NRP2	102031	Sep.12, 2016	Sep.11, 2017

4.2 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)

4.3 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.

5 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.		

6 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)

6.1 E.U.T. Operation

Operating Environment :

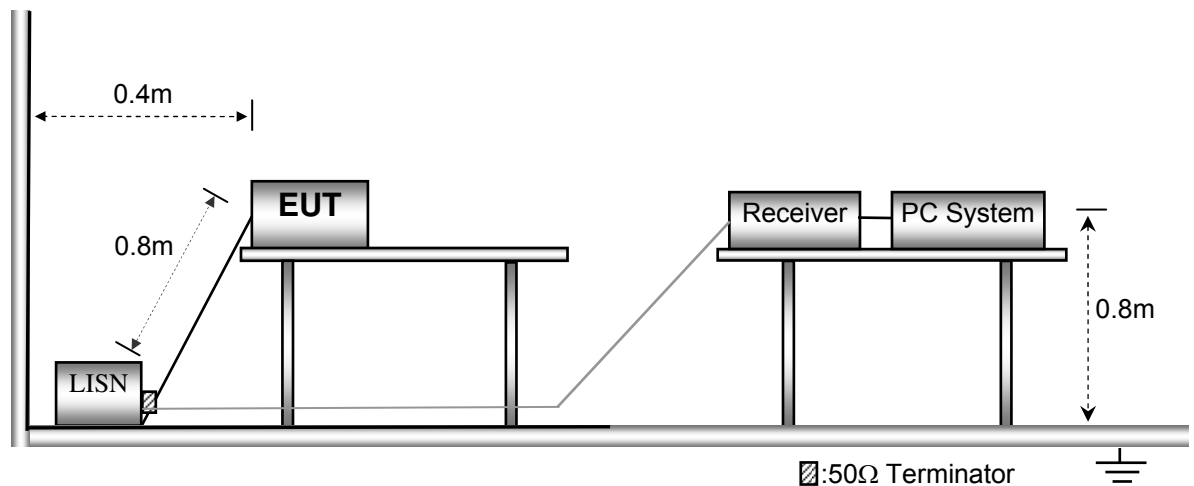
Temperature:	21.5 °C
Humidity:	51.9 % RH
Atmospheric Pressure:	101.2kPa

EUT Operation :

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

6.2 EUT Setup

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



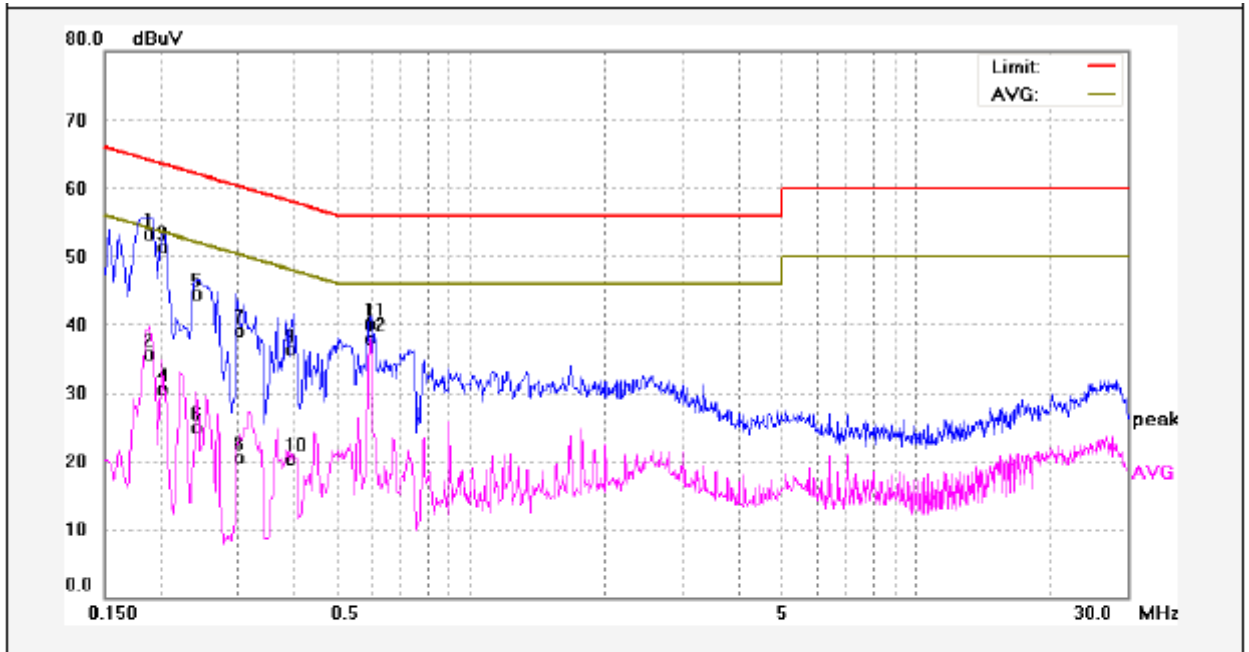
6.3 Measurement Description

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.

6.4 Conducted Emission Test Result

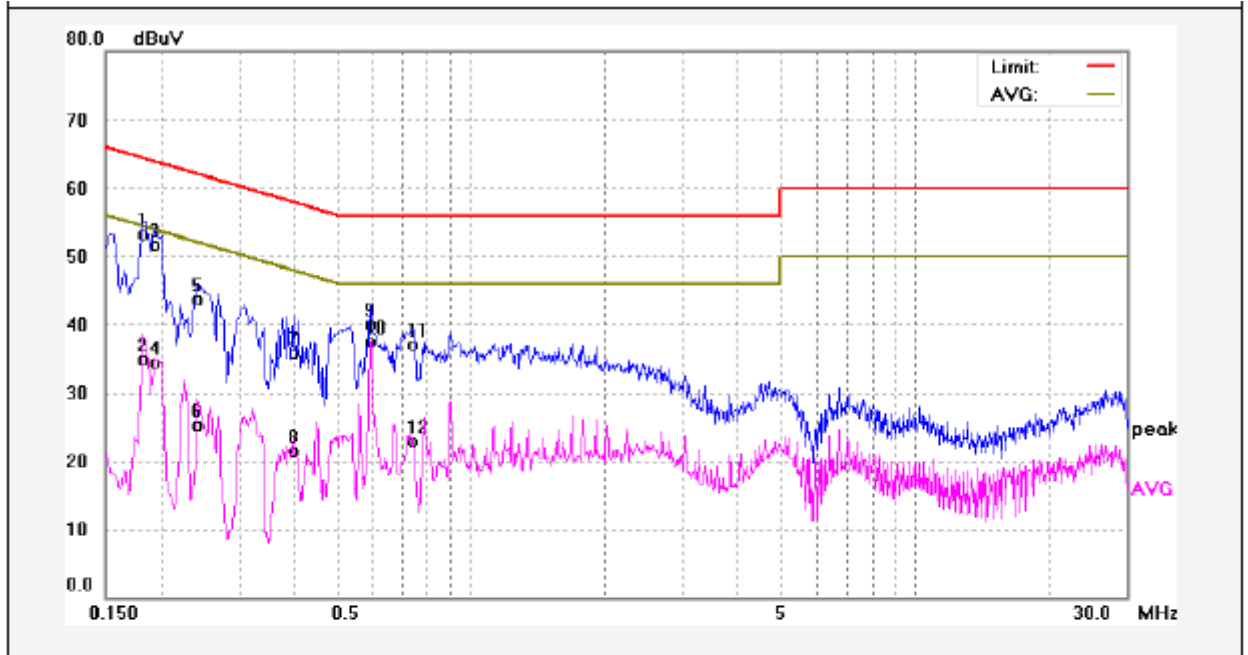
An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1900	43.51	9.75	53.26	64.03	-10.77	QP	
2	0.1900	26.01	9.75	35.76	54.03	-18.27	AVG	
3	0.2020	41.53	9.76	51.29	63.52	-12.23	QP	
4	0.2020	20.84	9.76	30.60	53.52	-22.92	AVG	
5	0.2420	34.80	9.74	44.54	62.02	-17.48	QP	
6	0.2420	15.10	9.74	24.84	52.02	-27.18	AVG	
7	0.2980	29.45	9.75	39.20	60.30	-21.10	QP	
8	0.2980	10.73	9.75	20.48	50.30	-29.82	AVG	
9	0.3980	26.47	9.75	36.22	57.89	-21.67	QP	
10	0.3980	10.60	9.75	20.35	47.89	-27.54	AVG	
11	0.5940	30.35	9.76	40.11	56.00	-15.89	QP	
12	0.5940	28.20	9.76	37.96	46.00	-8.04	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1819	43.64	9.75	53.39	64.39	-11.00	QP	
2	0.1819	25.19	9.75	34.94	54.39	-19.45	AVG	
3	0.1940	41.87	9.76	51.63	63.86	-12.23	QP	
4	0.1940	24.67	9.76	34.43	53.86	-19.43	AVG	
5	0.2420	33.91	9.74	43.65	62.02	-18.37	QP	
6	0.2420	15.64	9.74	25.38	52.02	-26.64	AVG	
7	0.3980	26.19	9.75	35.94	57.89	-21.95	QP	
8	0.3980	11.75	9.75	21.50	47.89	-26.39	AVG	
9	0.5940	30.26	9.76	40.02	56.00	-15.98	QP	
10	0.5940	27.68	9.76	37.44	46.00	-8.56	AVG	
11	0.7420	27.38	9.78	37.16	56.00	-18.84	QP	
12	0.7420	13.09	9.78	22.87	46.00	-23.13	AVG	

7 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	$20\log^{(500)}$

7.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

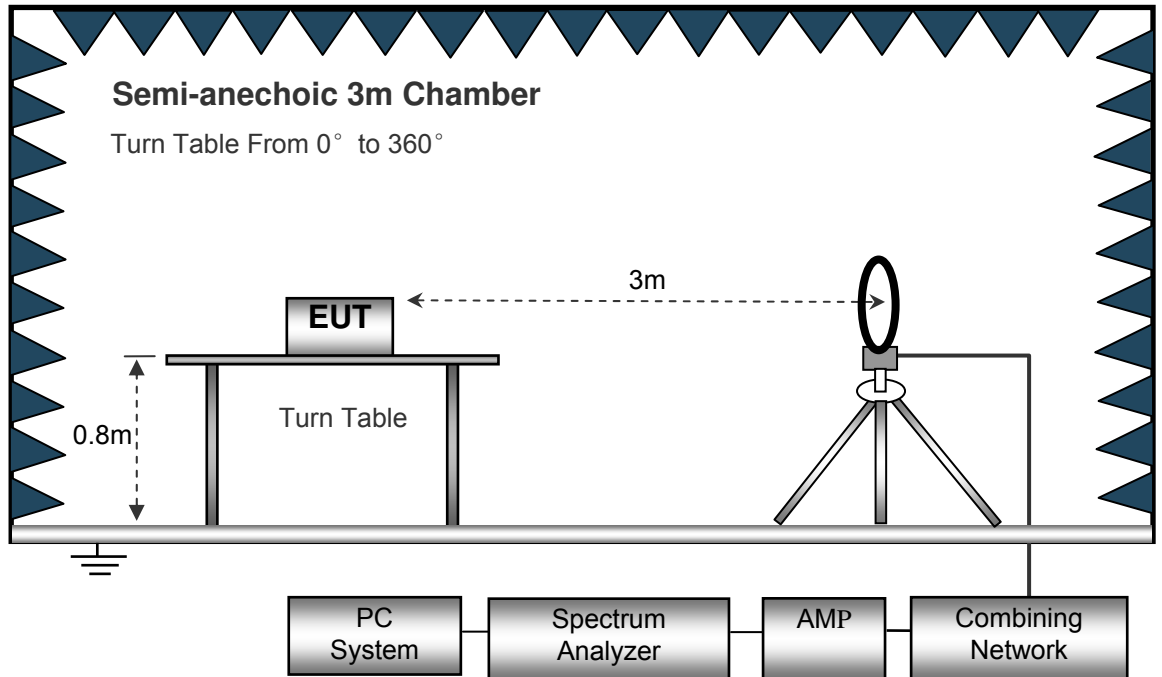
EUT Operation :

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

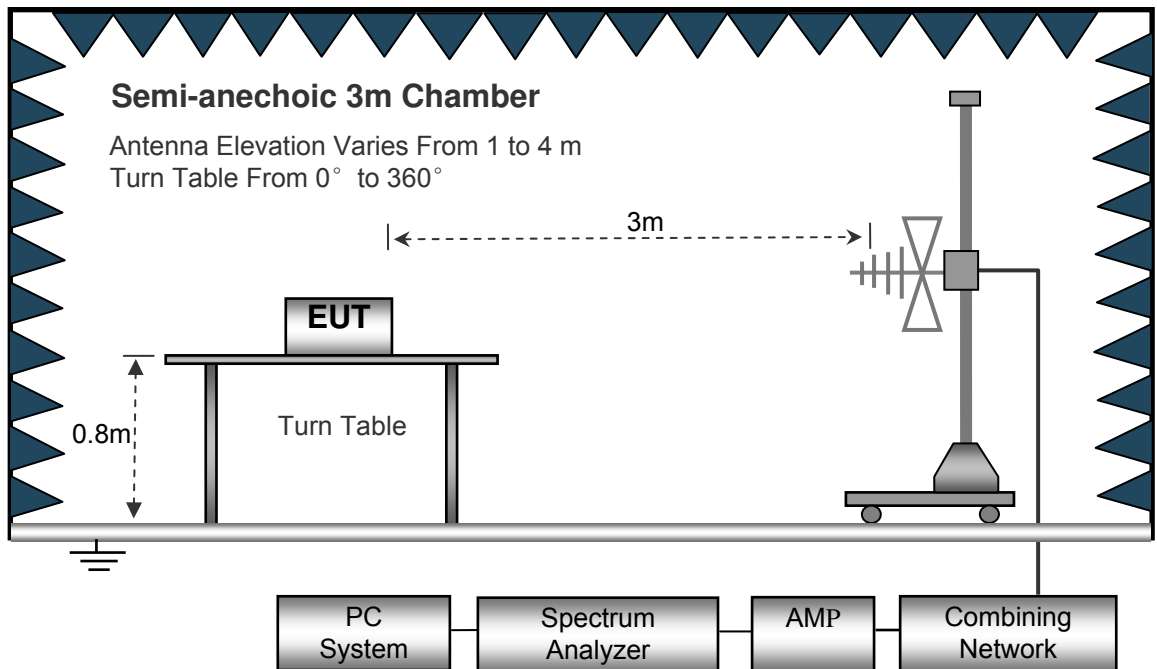
7.2 Test Setup

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

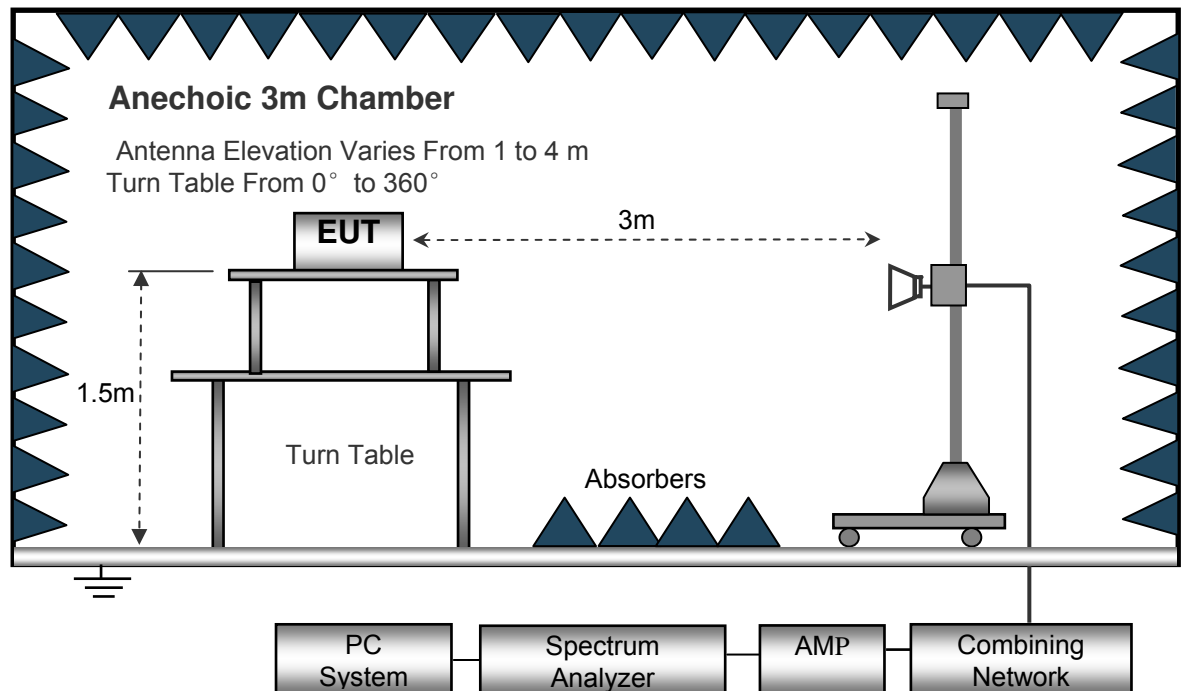
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



7.3 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

7.4 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.

7.5 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:

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

7.6 Summary of Test Results

Test Frequency : 24MHz 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									
224.45	42.33	QP	261.53	1.75	H	11.62	30.71	46.00	-15.29
224.45	36.38	QP	33.06	1.93	V	11.62	24.76	46.00	-21.24
4824.00	51.25	PK	118.19	1.48	V	1.06	50.19	74.00	-23.81
4824.00	47.22	Ave	118.19	1.48	V	1.06	46.16	54.00	-7.84
7236.00	42.28	PK	263.49	1.61	H	1.33	43.61	74.00	-30.39
7236.00	42.20	Ave	263.49	1.61	H	1.33	43.53	54.00	-10.47
2345.06	45.78	PK	294.01	1.46	V	13.19	32.59	74.00	-41.41
2345.06	38.54	Ave	294.01	1.46	V	13.19	25.35	54.00	-28.65
2380.62	42.35	PK	197.09	1.47	H	13.14	29.21	74.00	-44.79
2380.62	36.67	Ave	197.09	1.47	H	13.14	23.53	54.00	-30.47
2484.07	42.72	PK	330.98	1.47	V	13.08	29.64	74.00	-44.36
2484.07	36.09	Ave	330.98	1.47	V	13.08	23.01	54.00	-30.99

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									
224.45	35.39	QP	288.90	1.38	V	11.62	23.77	46.00	-22.23
4874.00	50.97	PK	244.95	1.96	V	0.62	50.35	74.00	-23.65
4874.00	48.55	Ave	244.95	1.96	V	0.62	47.93	54.00	-6.07
7311.00	42.01	PK	171.96	1.08	H	2.21	44.22	74.00	-29.78
7311.00	43.07	Ave	171.96	1.08	H	2.21	45.28	54.00	-8.72
2322.13	45.29	PK	91.36	1.39	V	13.19	32.10	74.00	-41.90
2322.13	37.40	Ave	91.36	1.39	V	13.19	24.21	54.00	-29.79
2370.31	42.39	PK	150.58	1.60	H	13.14	29.25	74.00	-44.75
2370.31	36.99	Ave	150.58	1.60	H	13.14	23.85	54.00	-30.15
2498.20	43.39	PK	54.48	1.50	V	13.08	30.31	74.00	-43.69
2498.20	37.96	Ave	54.48	1.50	V	13.08	24.88	54.00	-29.12
224.45	35.39	QP	288.90	1.38	V	11.62	23.77	46.00	-22.23

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 μ V)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dB μ V/m)	(dB μ V/m)	(dB)
11b: High Channel 2462MHz									
224.45	42.97	QP	153.74	1.86	H	11.62	31.35	46.00	-14.65
224.45	35.89	QP	276.83	1.22	V	11.62	24.27	46.00	-21.73
4924.00	51.64	PK	44.02	1.58	V	0.24	51.40	74.00	-22.60
4924.00	48.84	Ave	44.02	1.58	V	0.24	48.60	54.00	-5.40
7386.00	40.63	PK	128.91	1.45	H	2.84	43.47	74.00	-30.53
7386.00	43.44	Ave	128.91	1.45	H	2.84	46.28	54.00	-7.72
2332.14	45.10	PK	155.46	1.38	V	13.19	31.91	74.00	-42.09
2332.14	39.43	Ave	155.46	1.38	V	13.19	26.24	54.00	-27.76
2357.83	43.38	PK	266.98	1.63	H	13.14	30.24	74.00	-43.76
2357.83	38.81	Ave	266.98	1.63	H	13.14	25.67	54.00	-28.33
2498.51	44.83	PK	142.69	1.14	V	13.08	31.75	74.00	-42.25
2498.51	37.81	Ave	142.69	1.14	V	13.08	24.73	54.00	-29.27

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: Low Channel 2412MHz									
224.45	41.76	QP	9.02	1.30	H	11.62	30.14	46.00	-15.86
224.45	35.28	QP	204.37	1.49	V	11.62	23.66	46.00	-22.34
4824.00	51.11	PK	220.95	1.92	V	1.06	50.05	74.00	-23.95
4824.00	48.91	Ave	220.95	1.92	V	1.06	47.85	54.00	-6.15
7236.00	40.63	PK	75.80	1.78	H	1.33	41.96	74.00	-32.04
7236.00	42.98	Ave	75.80	1.78	H	1.33	44.31	54.00	-9.69
2331.17	45.53	PK	86.88	1.80	V	13.19	32.34	74.00	-41.66
2331.17	38.33	Ave	86.88	1.80	V	13.19	25.14	54.00	-28.86
2360.67	44.05	PK	27.50	1.19	H	13.14	30.91	74.00	-43.09
2360.67	36.52	Ave	27.50	1.19	H	13.14	23.38	54.00	-30.62
2486.90	43.65	PK	111.39	1.62	V	13.08	30.57	74.00	-43.43
2486.90	38.62	Ave	111.39	1.62	V	13.08	25.54	54.00	-28.46

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									
224.45	42.70	QP	208.34	1.37	H	11.62	31.08	46.00	-14.92
224.45	33.79	QP	94.69	1.19	V	11.62	22.17	46.00	-23.83
4874.00	50.41	PK	172.29	1.58	V	0.62	49.79	74.00	-24.21
4874.00	47.56	Ave	172.29	1.58	V	0.62	46.94	54.00	-7.06
7311.00	39.85	PK	283.87	1.77	H	2.21	42.06	74.00	-31.94
7311.00	44.16	Ave	283.87	1.77	H	2.21	46.37	54.00	-7.63
2332.86	46.62	PK	340.86	1.58	V	13.19	33.43	74.00	-40.57
2332.86	37.32	Ave	340.86	1.58	V	13.19	24.13	54.00	-29.87
2359.70	43.44	PK	162.80	1.95	H	13.14	30.30	74.00	-43.70
2359.70	36.55	Ave	162.80	1.95	H	13.14	23.41	54.00	-30.59
2493.23	42.18	PK	247.60	1.13	V	13.08	29.10	74.00	-44.90
2493.23	38.18	Ave	247.60	1.13	V	13.08	25.10	54.00	-28.90

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									
224.45	43.66	QP	116.05	1.81	H	11.62	32.04	46.00	-13.96
224.45	33.93	QP	25.62	1.23	V	11.62	22.31	46.00	-23.69
4924.00	49.02	PK	81.57	1.07	V	0.24	48.78	74.00	-25.22
4924.00	46.39	Ave	81.57	1.07	V	0.24	46.15	54.00	-7.85
7386.00	41.23	PK	131.41	1.52	H	2.84	44.07	74.00	-29.93
7386.00	42.84	Ave	131.41	1.52	H	2.84	45.68	54.00	-8.32
2349.51	46.27	PK	344.15	1.66	V	13.19	33.08	74.00	-40.92
2349.51	37.38	Ave	344.15	1.66	V	13.19	24.19	54.00	-29.81
2357.29	43.21	PK	209.10	1.25	H	13.14	30.07	74.00	-43.93
2357.29	36.01	Ave	209.10	1.25	H	13.14	22.87	54.00	-31.13
2497.34	43.42	PK	204.94	1.18	V	13.08	30.34	74.00	-43.66
2497.34	36.63	Ave	204.94	1.18	V	13.08	23.55	54.00	-30.45

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									
224.45	42.33	QP	225.87	1.95	H	11.62	30.71	46.00	-15.29
224.45	33.79	QP	353.94	1.04	V	11.62	22.17	46.00	-23.83
4824.00	49.37	PK	209.27	1.17	V	1.06	48.31	74.00	-25.69
4824.00	46.77	Ave	209.27	1.17	V	1.06	45.71	54.00	-8.29
7236.00	40.39	PK	109.29	1.65	H	1.33	41.72	74.00	-32.28
7236.00	43.09	Ave	109.29	1.65	H	1.33	44.42	54.00	-9.58
2338.53	45.94	PK	1.68	1.19	V	13.19	32.75	74.00	-41.25
2338.53	39.33	Ave	1.68	1.19	V	13.19	26.14	54.00	-27.86
2381.02	44.30	PK	26.55	1.40	H	13.14	31.16	74.00	-42.84
2381.02	38.01	Ave	26.55	1.40	H	13.14	24.87	54.00	-29.13
2496.89	42.30	PK	337.81	1.42	V	13.08	29.22	74.00	-44.78
2496.89	38.29	Ave	337.81	1.42	V	13.08	25.21	54.00	-28.79

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									
224.45	42.61	QP	115.28	1.60	H	11.62	30.99	46.00	-15.01
224.45	33.50	QP	198.23	1.52	V	11.62	21.88	46.00	-24.12
4874.00	50.46	PK	128.95	1.68	V	0.62	49.84	74.00	-24.16
4874.00	47.17	Ave	128.95	1.68	V	0.62	46.55	54.00	-7.45
7311.00	40.68	PK	78.19	1.52	H	2.21	42.89	74.00	-31.11
7311.00	43.48	Ave	78.19	1.52	H	2.21	45.69	54.00	-8.31
2311.50	46.48	PK	301.77	1.02	V	13.19	33.29	74.00	-40.71
2311.50	38.29	Ave	301.77	1.02	V	13.19	25.10	54.00	-28.90
2366.95	42.14	PK	189.26	1.92	H	13.14	29.00	74.00	-45.00
2366.95	37.07	Ave	189.26	1.92	H	13.14	23.93	54.00	-30.07
2490.46	42.31	PK	208.72	1.91	V	13.08	29.23	74.00	-44.77
2490.46	37.71	Ave	208.72	1.91	V	13.08	24.63	54.00	-29.37

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)
n20: High Channel 2462MHz									
224.45	41.13	QP	153.91	1.08	H	11.62	29.51	46.00	-16.49
224.45	34.97	QP	338.44	1.19	V	11.62	23.35	46.00	-22.65
4924.00	50.96	PK	171.92	1.90	V	0.24	50.72	74.00	-23.28
4924.00	46.77	Ave	171.92	1.90	V	0.24	46.53	54.00	-7.47
7386.00	39.63	PK	350.30	1.22	H	2.84	42.47	74.00	-31.53
7386.00	42.08	Ave	350.30	1.22	H	2.84	44.92	54.00	-9.08
2347.80	45.50	PK	7.08	1.50	V	13.19	32.31	74.00	-41.69
2347.80	39.87	Ave	7.08	1.50	V	13.19	26.68	54.00	-27.32
2357.73	43.07	PK	187.79	1.71	H	13.14	29.93	74.00	-44.07
2357.73	36.54	Ave	187.79	1.71	H	13.14	23.40	54.00	-30.60
2497.68	44.57	PK	97.24	1.08	V	13.08	31.49	74.00	-42.51
2497.68	38.18	Ave	97.24	1.08	V	13.08	25.10	54.00	-28.90

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									
224.45	40.01	QP	296.14	1.07	H	11.62	28.39	46.00	-17.61
224.45	34.00	QP	70.85	1.27	V	11.62	22.38	46.00	-23.62
4844.00	48.41	PK	117.94	1.77	V	1.06	47.35	74.00	-26.65
4844.00	44.18	Ave	117.94	1.77	V	1.06	43.12	54.00	-10.88
7266.00	38.05	PK	51.70	1.61	H	1.33	39.38	74.00	-34.62
7266.00	39.85	Ave	51.70	1.61	H	1.33	41.18	54.00	-12.82
2322.35	46.74	PK	251.12	1.03	V	13.19	33.55	74.00	-40.45
2322.35	38.54	Ave	251.12	1.03	V	13.19	25.35	54.00	-28.65
2387.53	44.17	PK	96.14	1.85	H	13.14	31.03	74.00	-42.97
2387.53	36.62	Ave	96.14	1.85	H	13.14	23.48	54.00	-30.52
2492.93	42.88	PK	301.36	1.92	V	13.08	29.80	74.00	-44.20
2492.93	37.79	Ave	301.36	1.92	V	13.08	24.71	54.00	-29.29

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									
224.45	40.56	QP	7.72	1.65	H	11.62	28.94	46.00	-17.06
224.45	33.67	QP	163.29	1.51	V	11.62	22.05	46.00	-23.95
4874.00	49.16	PK	293.21	1.56	V	0.62	48.54	74.00	-25.46
4874.00	43.49	Ave	293.21	1.56	V	0.62	42.87	54.00	-11.13
7311.00	37.92	PK	275.72	1.87	H	2.21	40.13	74.00	-33.87
7311.00	40.13	Ave	275.72	1.87	H	2.21	42.34	54.00	-11.66
2336.87	46.98	PK	295.43	1.71	V	13.19	33.79	74.00	-40.21
2336.87	38.90	Ave	295.43	1.71	V	13.19	25.71	54.00	-28.29
2376.50	44.52	PK	298.04	1.28	H	13.14	31.38	74.00	-42.62
2376.50	38.60	Ave	298.04	1.28	H	13.14	25.46	54.00	-28.54
2485.80	42.10	PK	295.14	1.07	V	13.08	29.02	74.00	-44.98
2485.80	37.11	Ave	295.14	1.07	V	13.08	24.03	54.00	-29.97

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									
224.45	41.36	QP	250.61	1.85	H	11.62	29.74	46.00	-16.26
224.45	34.36	QP	298.99	1.18	V	11.62	22.74	46.00	-23.26
4904.00	48.36	PK	23.19	1.57	V	0.24	48.12	74.00	-25.88
4904.00	42.85	Ave	23.19	1.57	V	0.24	42.61	54.00	-11.39
7356.00	38.47	PK	338.74	1.40	H	2.84	41.31	74.00	-32.69
7356.00	41.09	Ave	338.74	1.40	H	2.84	43.93	54.00	-10.07
2314.36	45.67	PK	97.42	1.06	V	13.19	32.48	74.00	-41.52
2314.36	38.81	Ave	97.42	1.06	V	13.19	25.62	54.00	-28.38
2372.07	43.45	PK	210.67	1.33	H	13.14	30.31	74.00	-43.69
2372.07	36.39	Ave	210.67	1.33	H	13.14	23.25	54.00	-30.75
2485.95	42.94	PK	314.37	1.18	V	13.08	29.86	74.00	-44.14
2485.95	38.40	Ave	314.37	1.18	V	13.08	25.32	54.00	-28.68

Test Frequency: 18GHz~25GHz

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

8 Band Edge Measurement

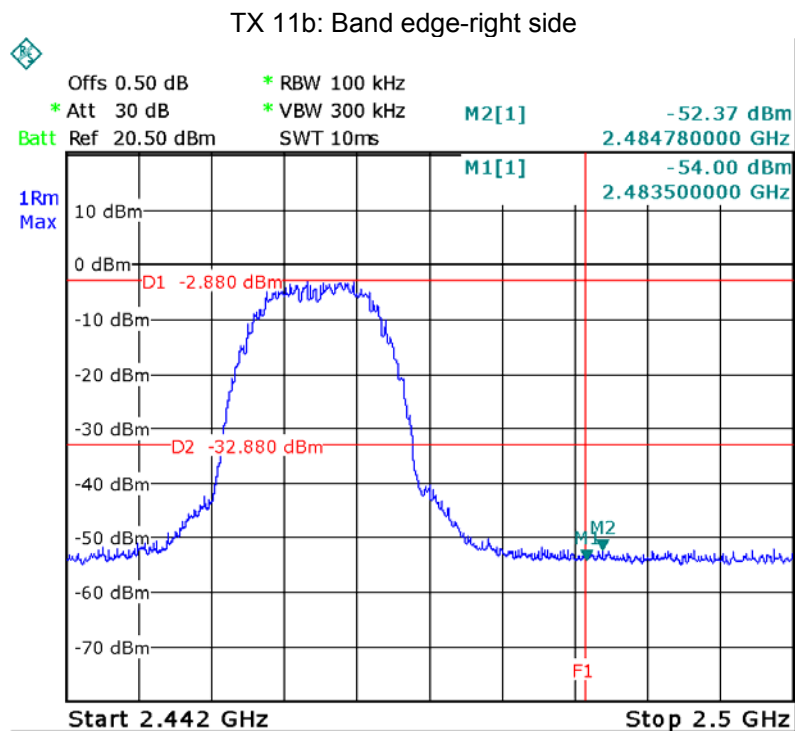
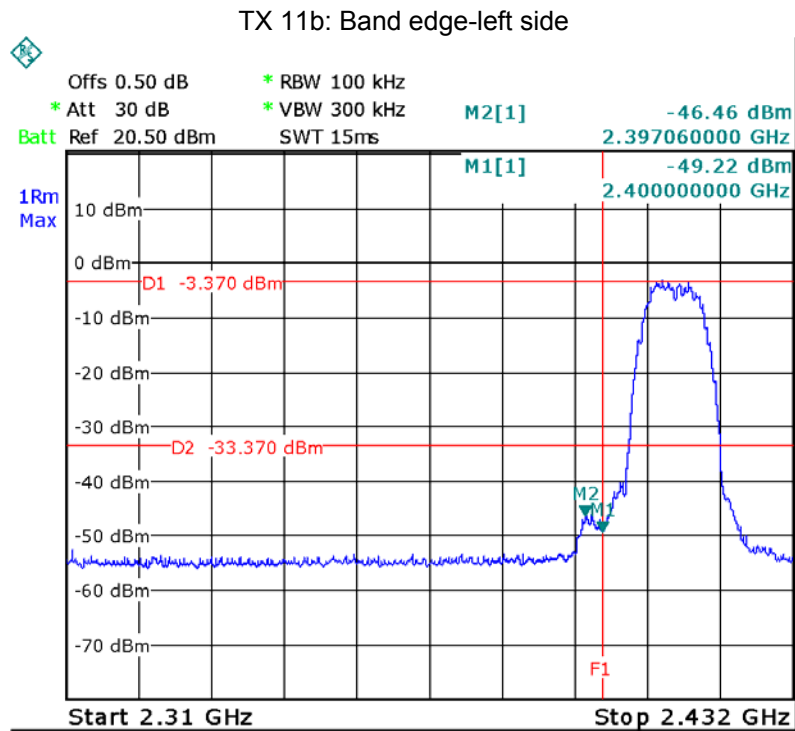
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance v03r05
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that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

8.1 Test Produce

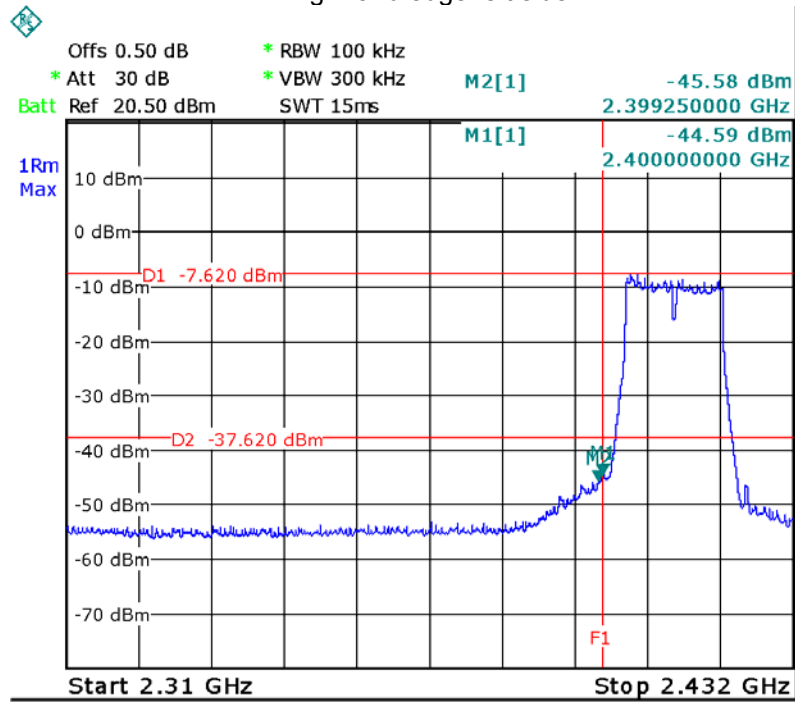
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

8.2 Test Result

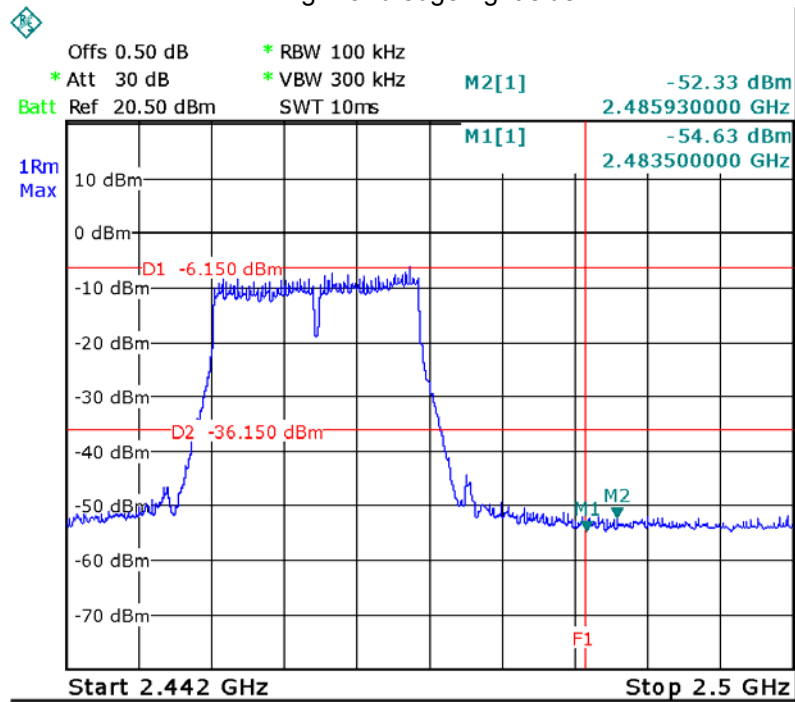
Test result plots shown as follows:



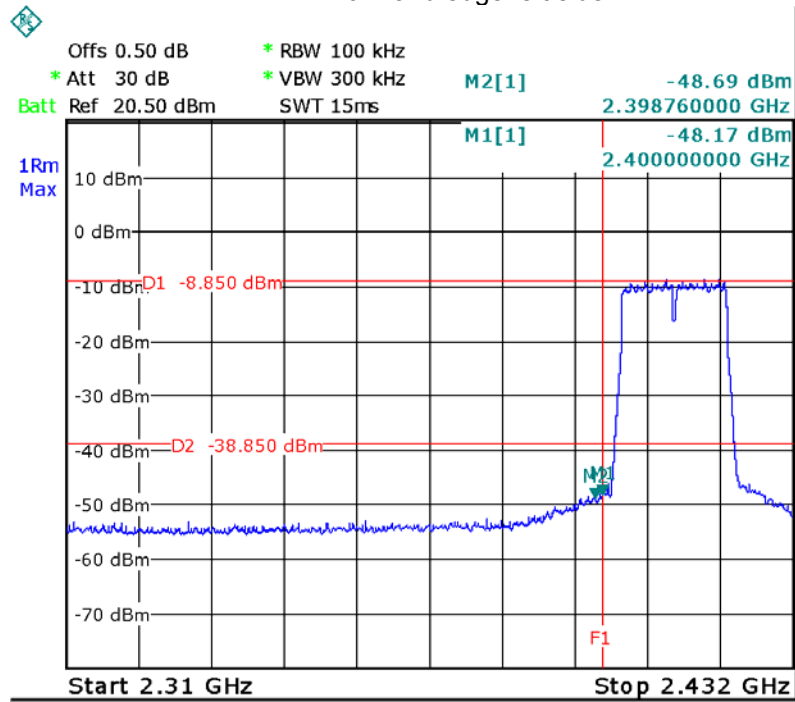
TX 11g: Band edge-left side



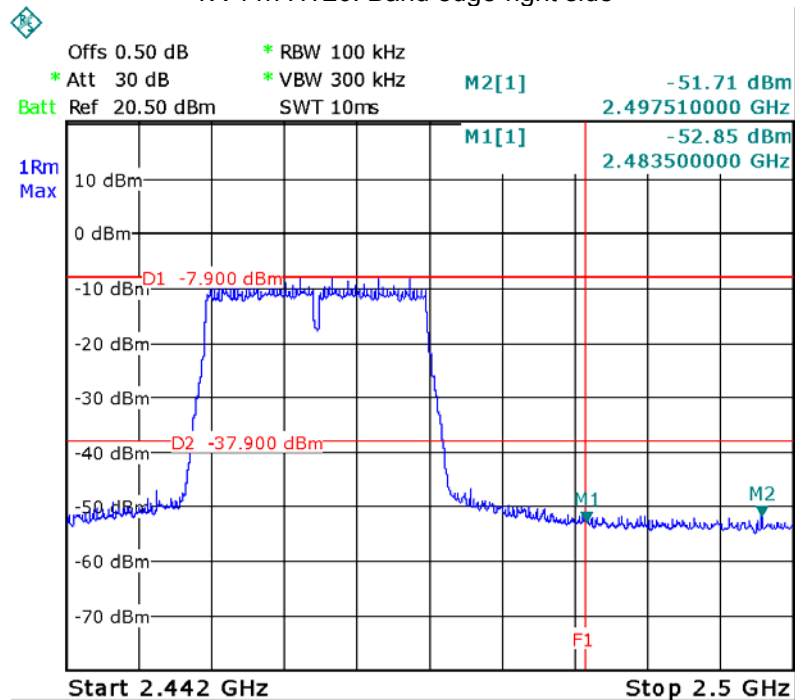
TX 11g: Band edge-right side



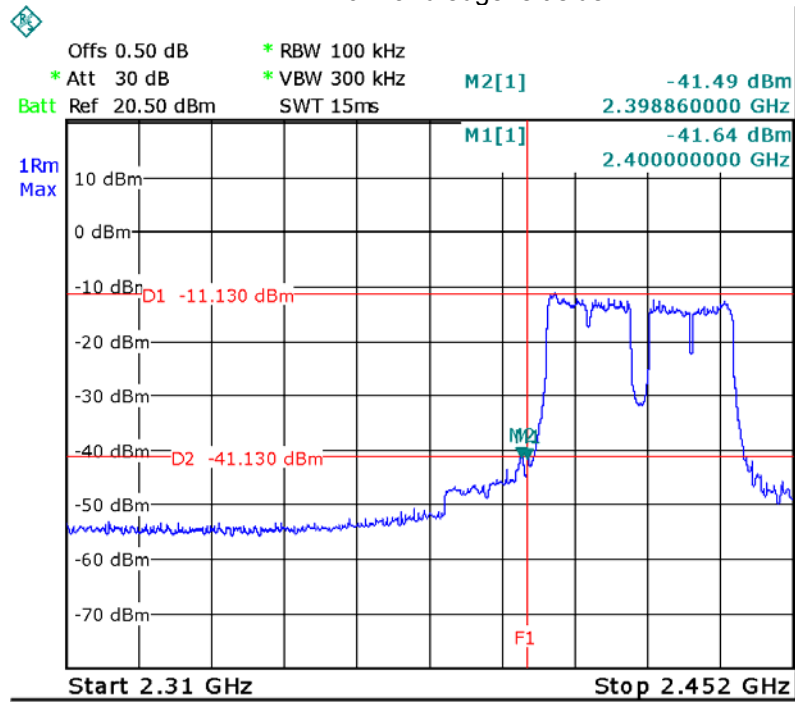
TX 11n HT20: Band edge-left side



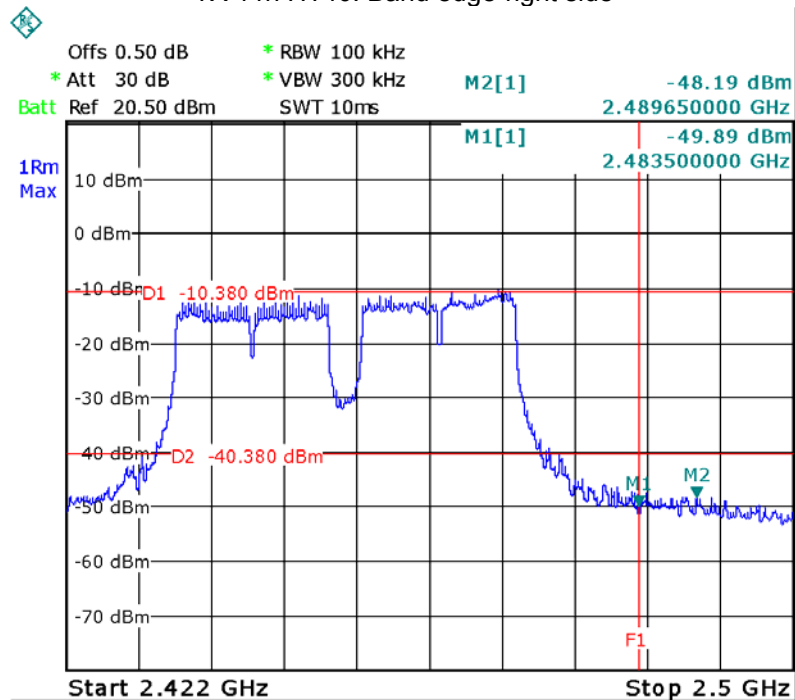
TX 11n HT20: Band edge-right side



TX 11n HT40: Band edge-left side



TX 11n HT40: Band edge-right side



9 Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v03r05

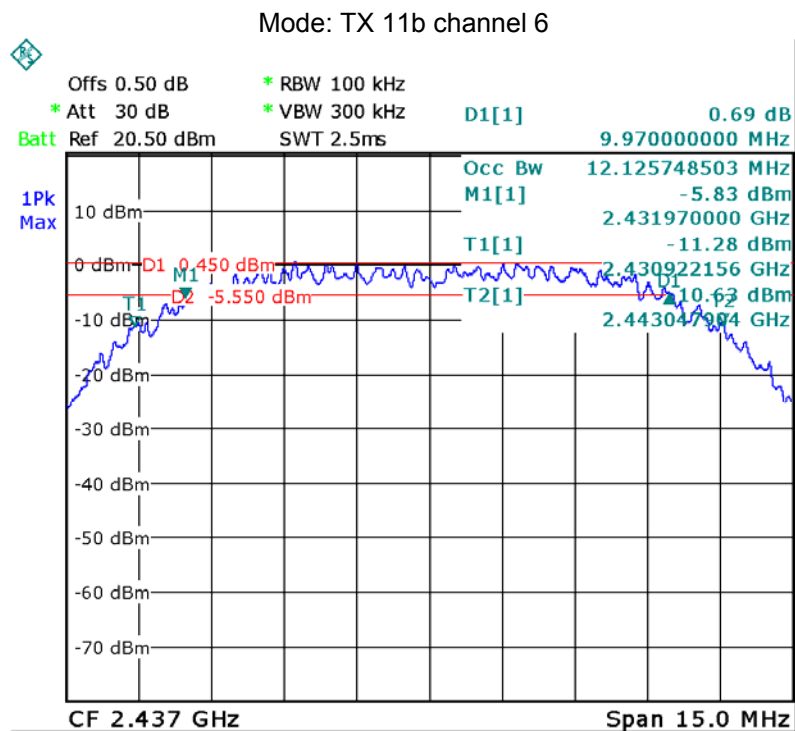
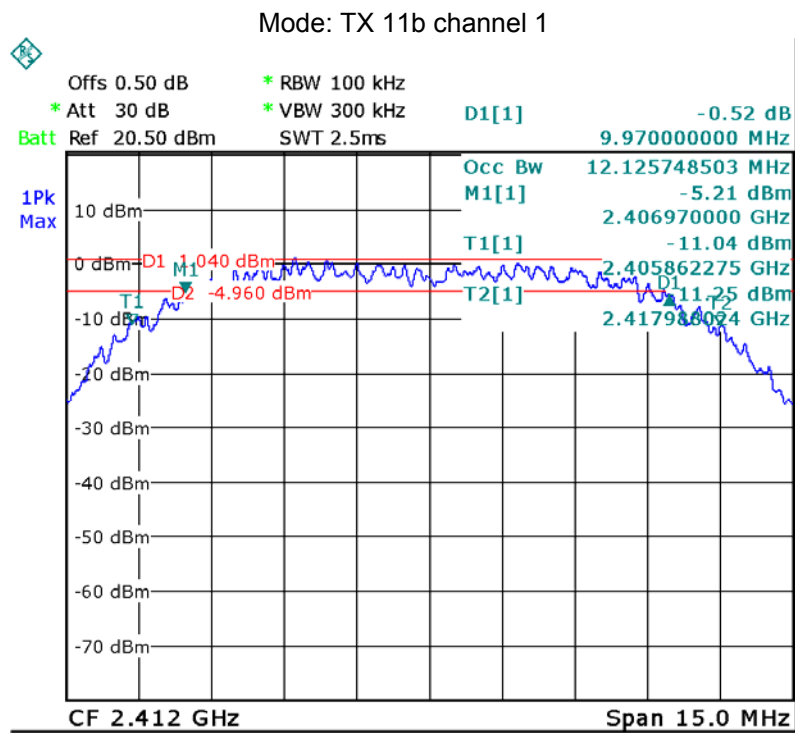
9.1 Test Procedure:

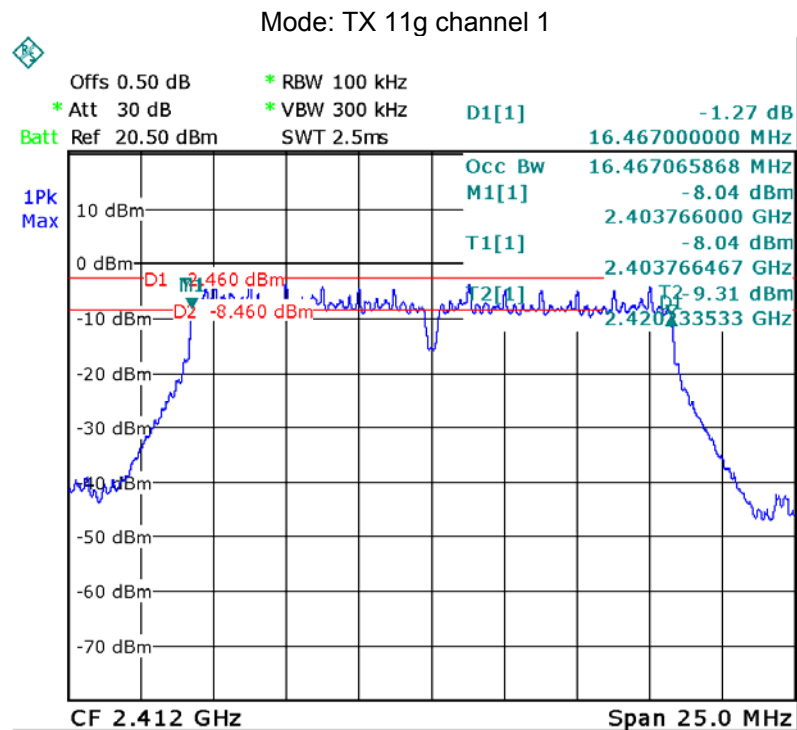
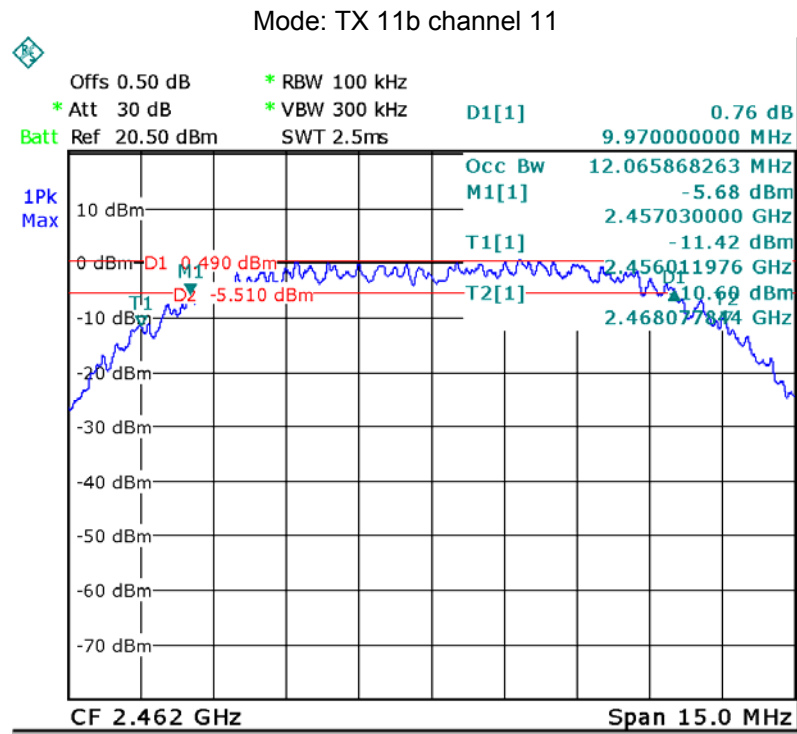
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

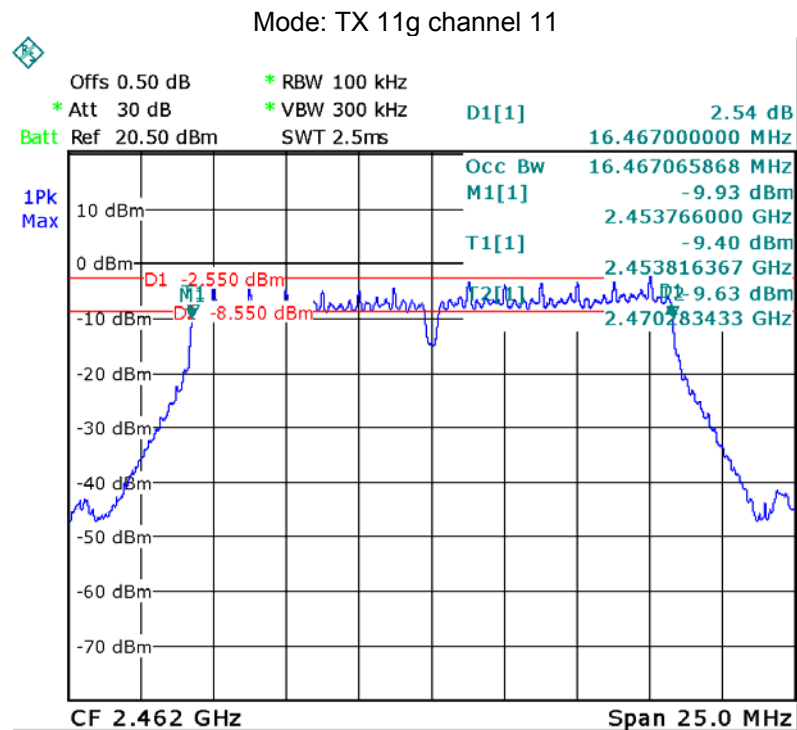
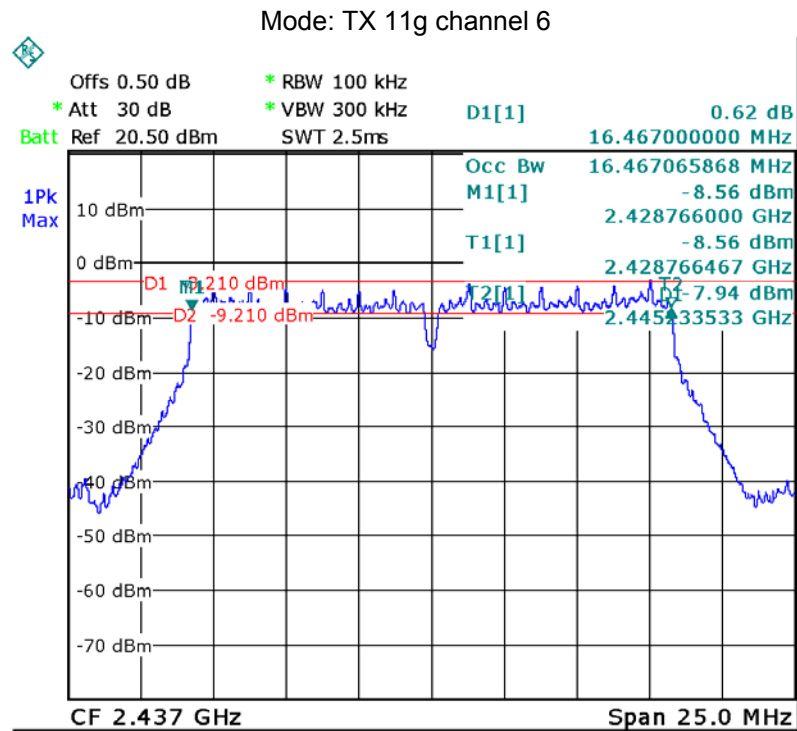
9.2 Test Result:

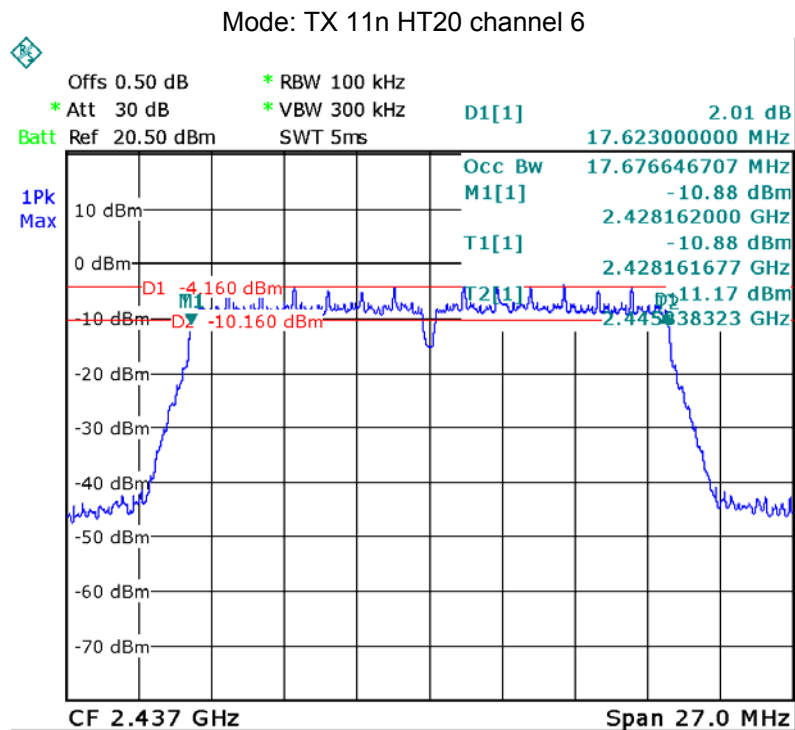
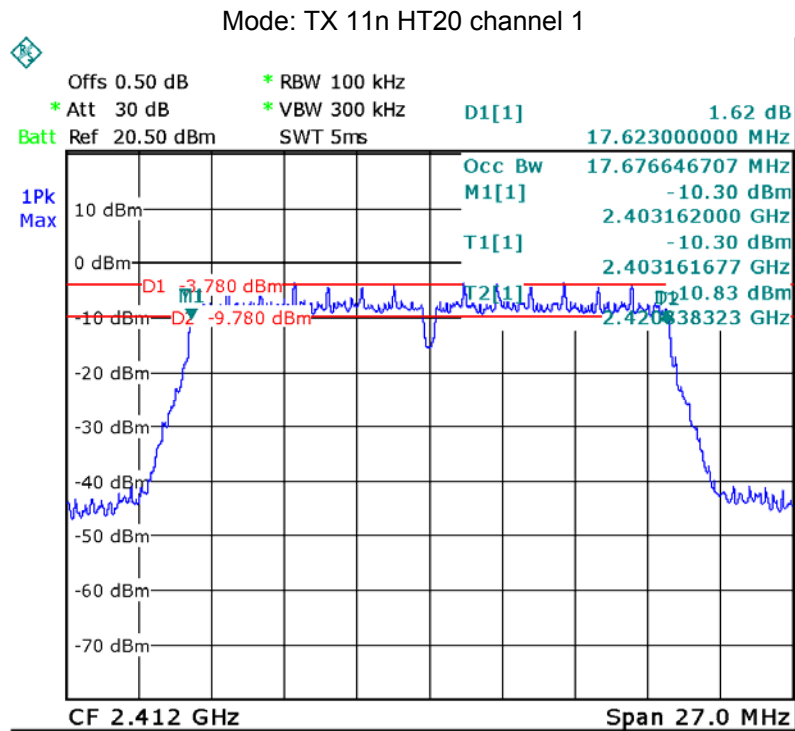
Operation mode	6dB Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11
TX 11b	Channel 1	Channel 6	Channel 11
	9.970	9.970	9.970
TX 11g	Channel 1	Channel 6	Channel 11
	16.467	16.467	16.467
TX 11n HT20	Channel 1	Channel 6	Channel 11
	17.623	17.623	17.623
TX 11n HT40	Channel 3	Channel 6	Channel 9
	36.120	36.120	36.120

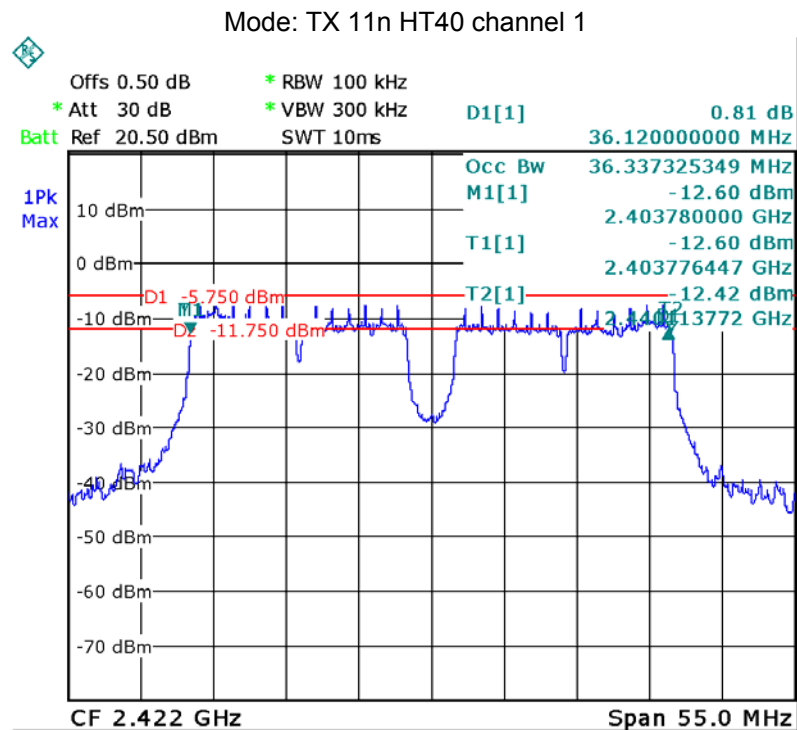
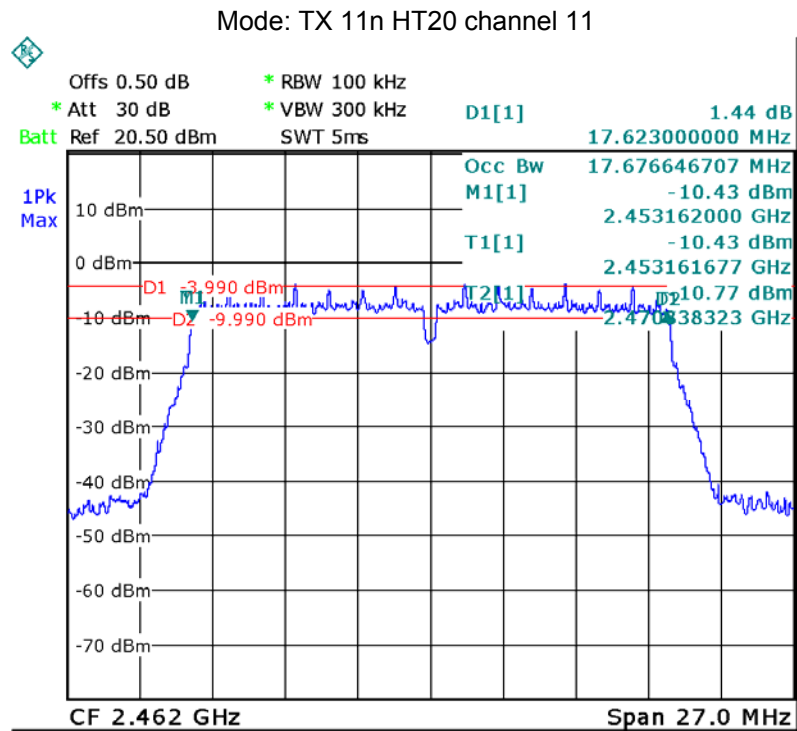
Test result plot as follows:



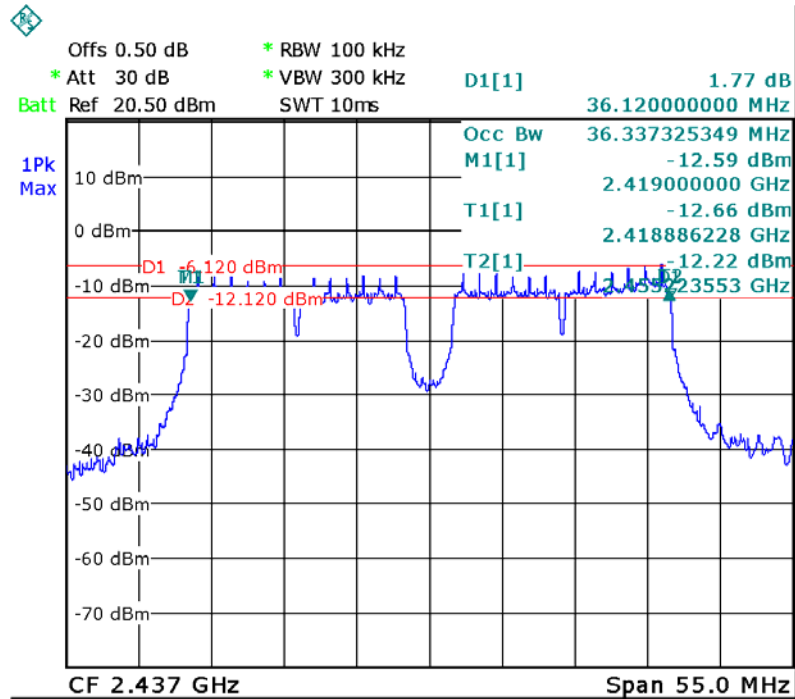




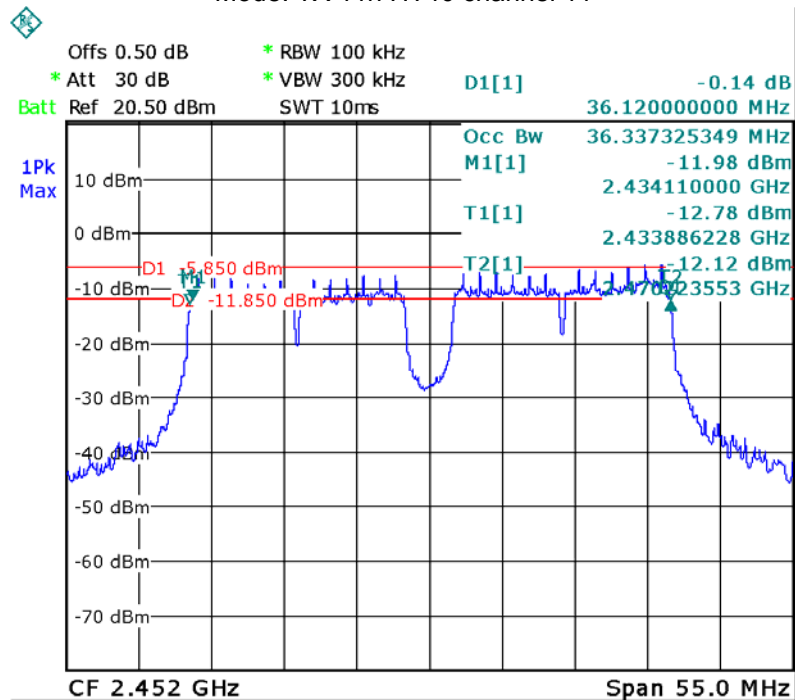




Mode: TX 11n HT40 channel 6



Mode: TX 11n HT40 channel 11



10 Maximum Peak Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: 558074 D01 DTS Meas Guidance v03r05

10.1 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.

10.2 Test Result:

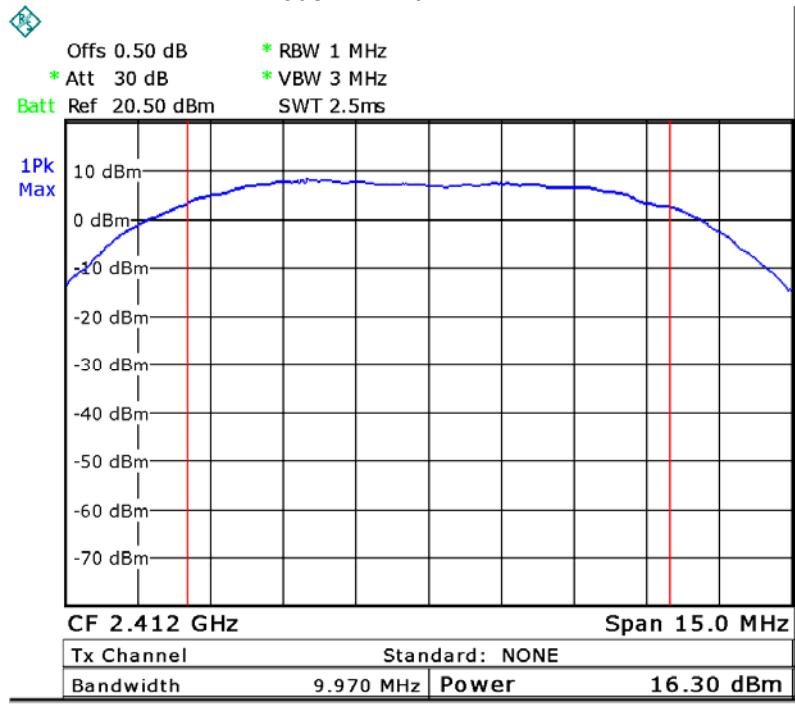
Test mode :TX 11b		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
16.30	16.23	16.10
Limit: 1W/30dBm		

Test mode :TX 11g		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
15.05	15.14	15.33
Limit: 1W/30dBm		

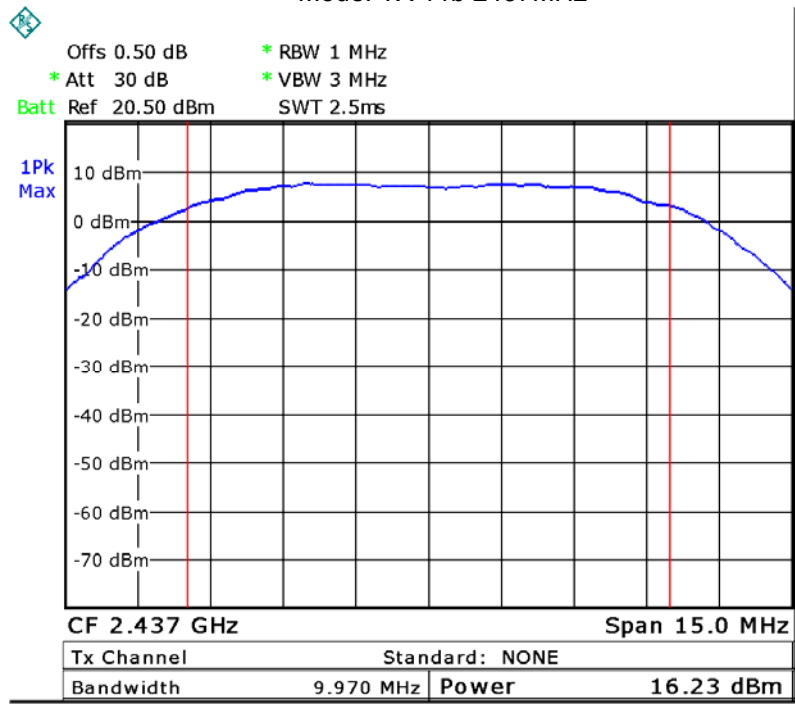
Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
15.69	15.06	15.33
Limit: 1W/30dBm		

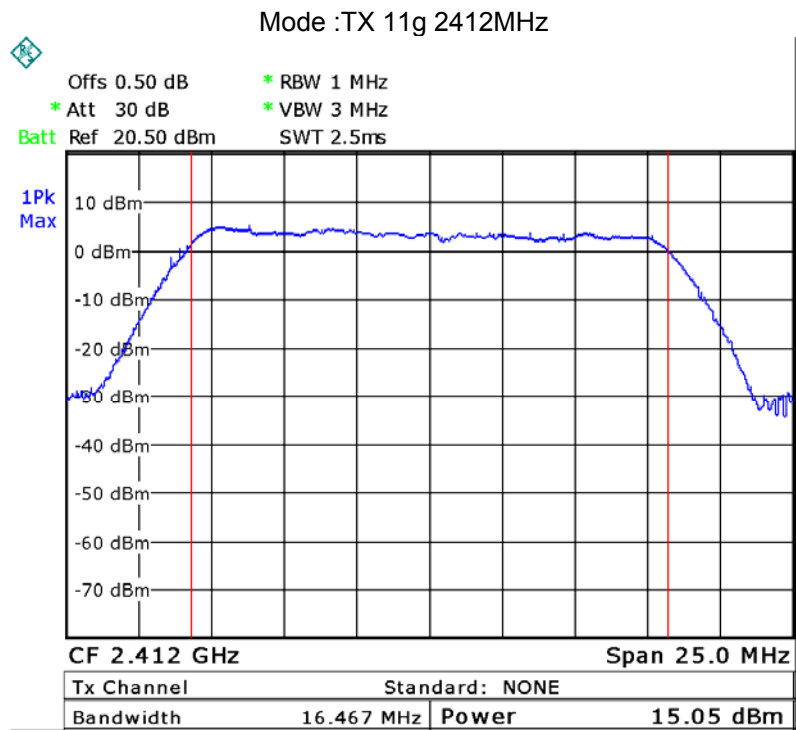
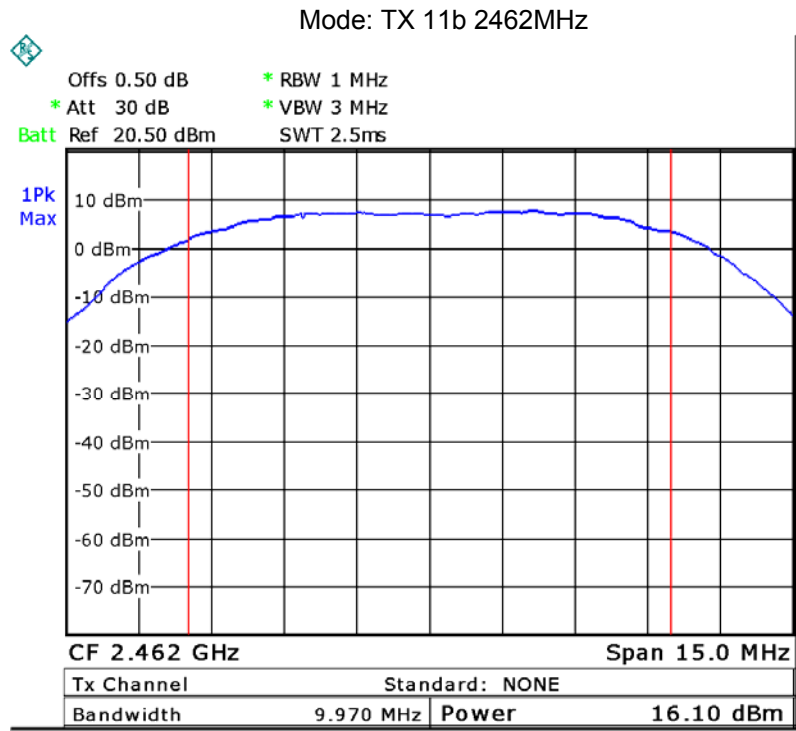
Test mode : TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
15.17	15.02	15.32
Limit: 1W/30dBm		

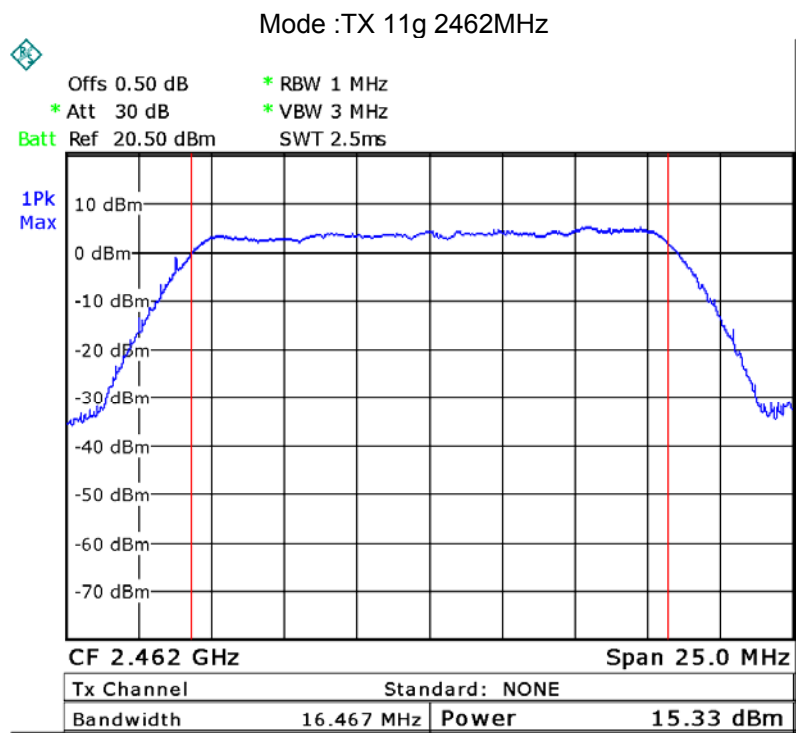
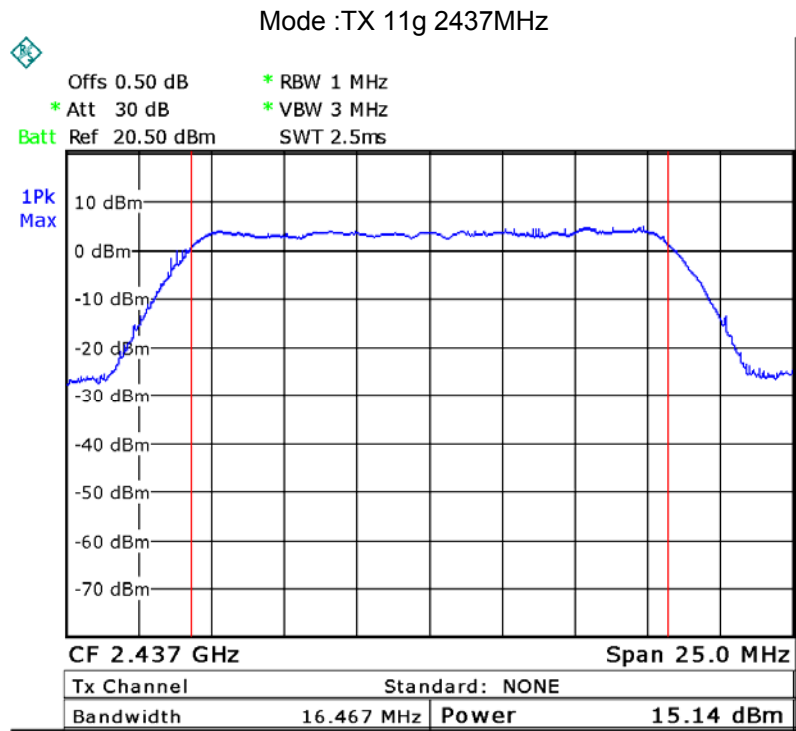
Mode: TX 11b 2412MHz



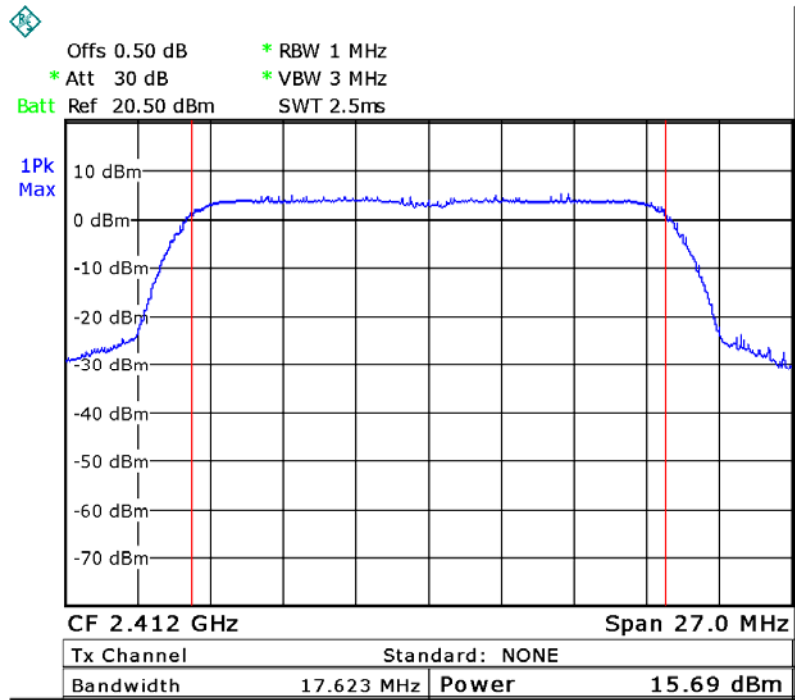
Mode: TX 11b 2437MHz



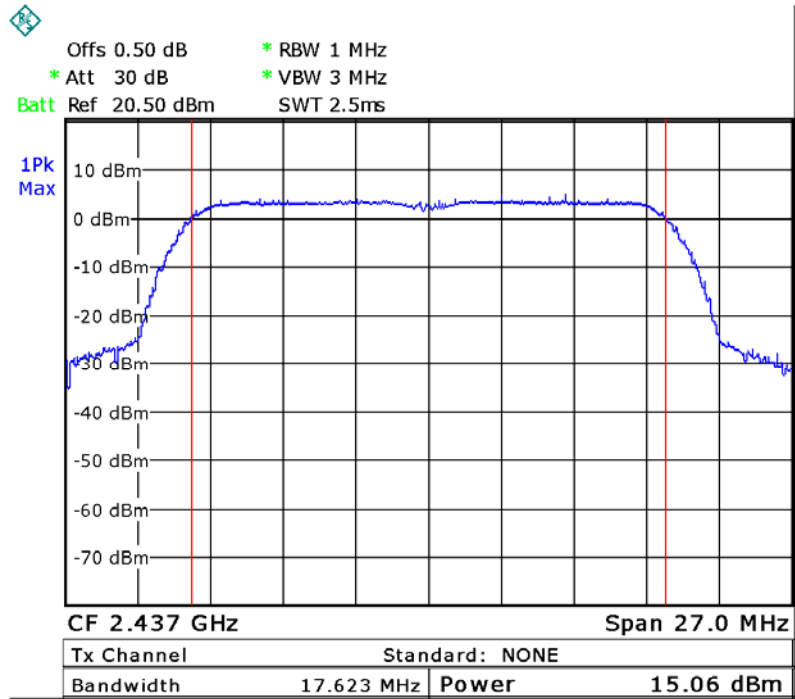




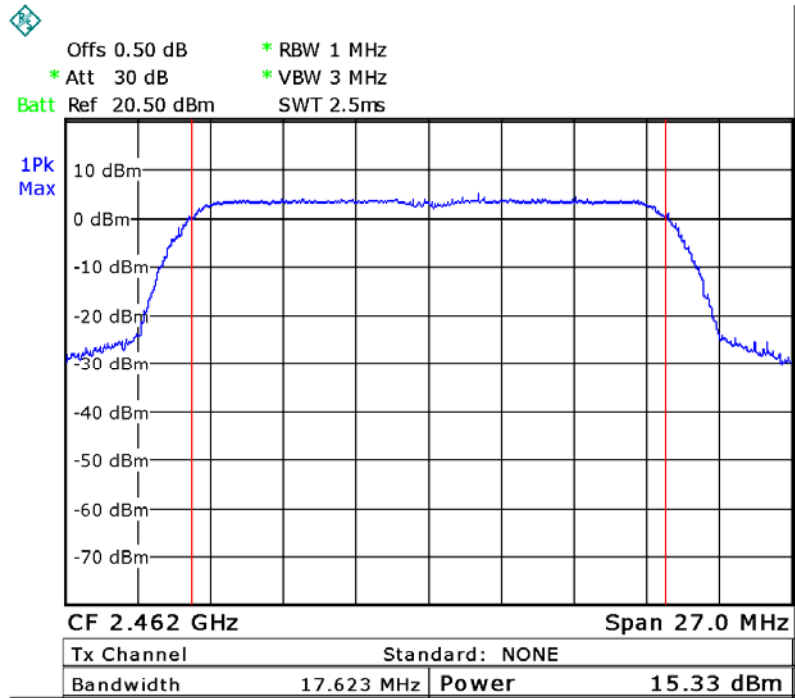
Mode: TX 11n HT20 2412MHz



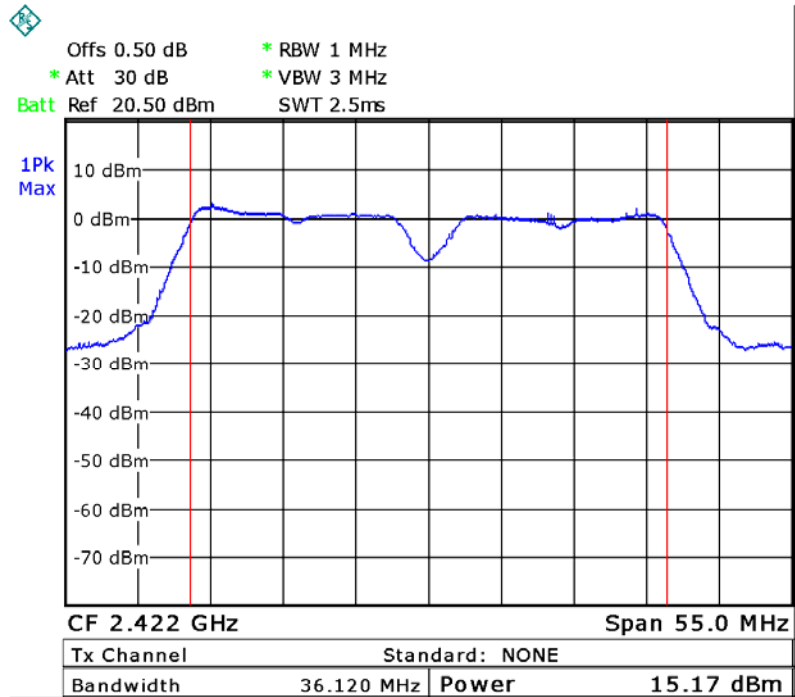
Mode: TX 11n HT20 2437MHz



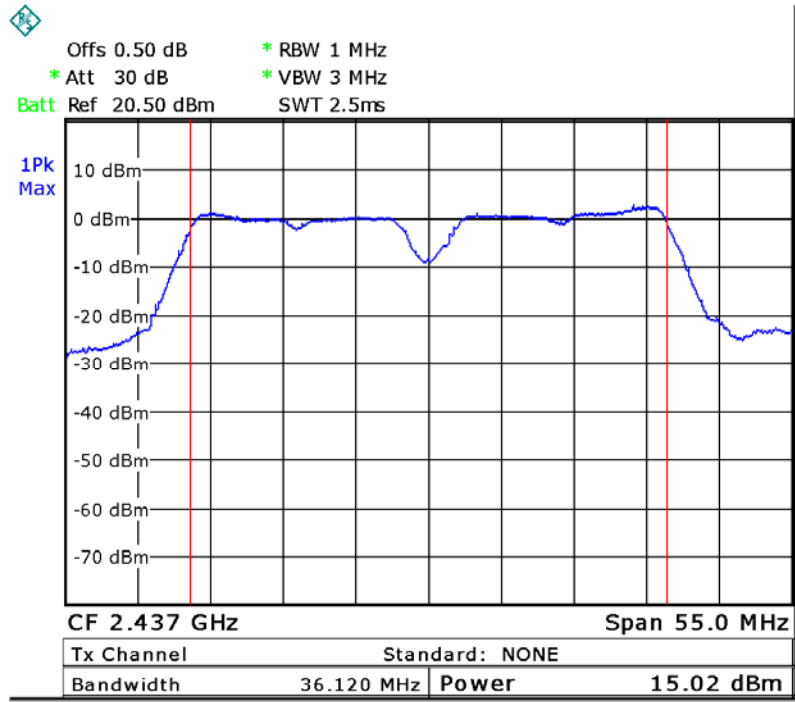
Mode: TX 11n HT20 2462MHz



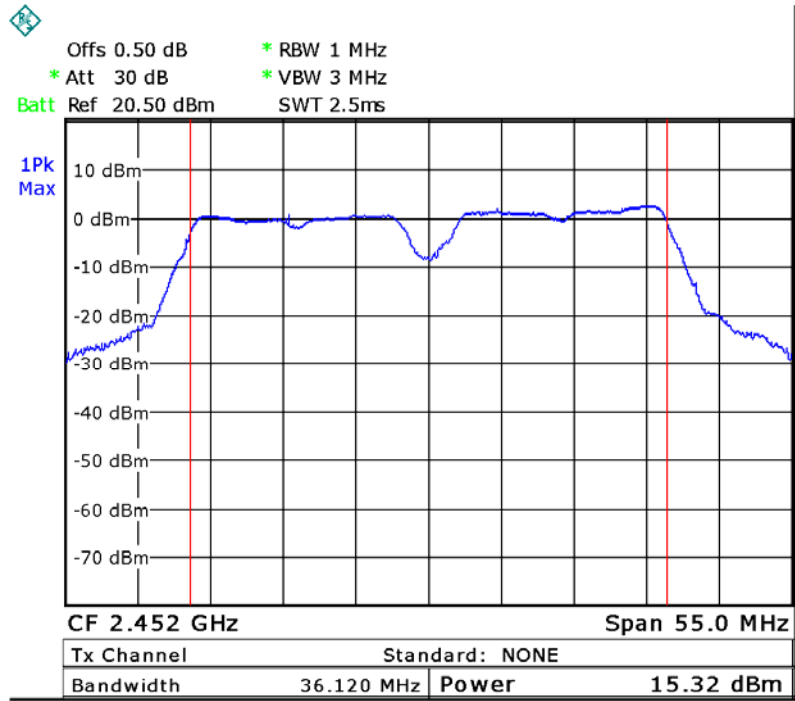
Mode: TX 11n HT40 2422MHz



Mode: TX 11n HT40 2437MHz



Mode: TX 11n HT40 2452MHz



11 Power Spectral density

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 = 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.

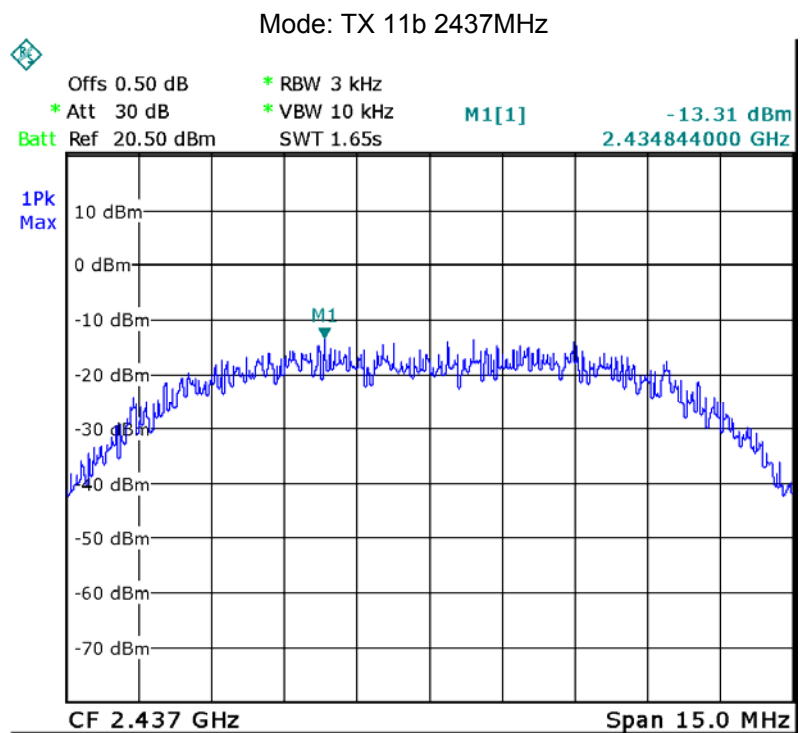
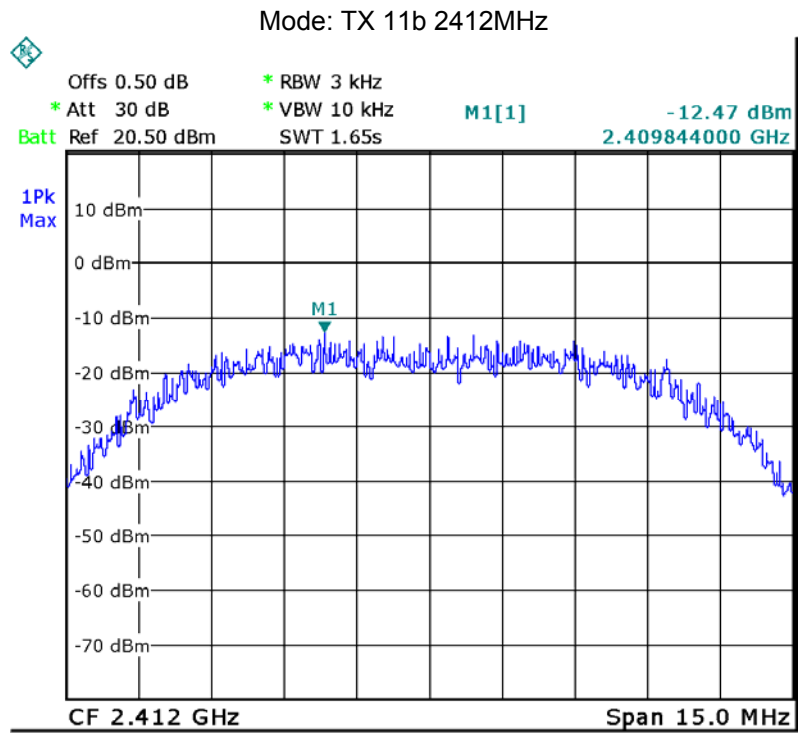
11.2 Test Result:

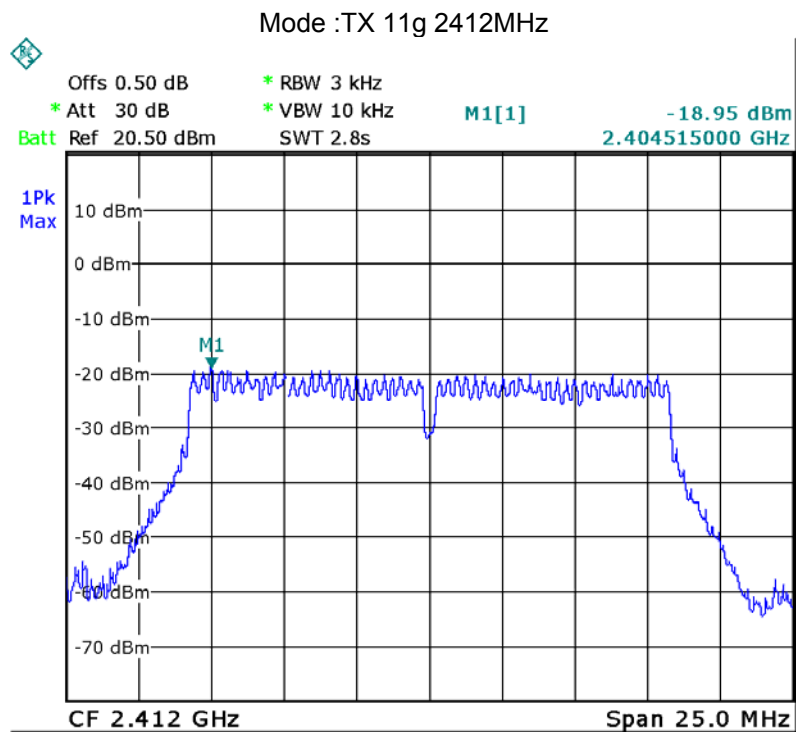
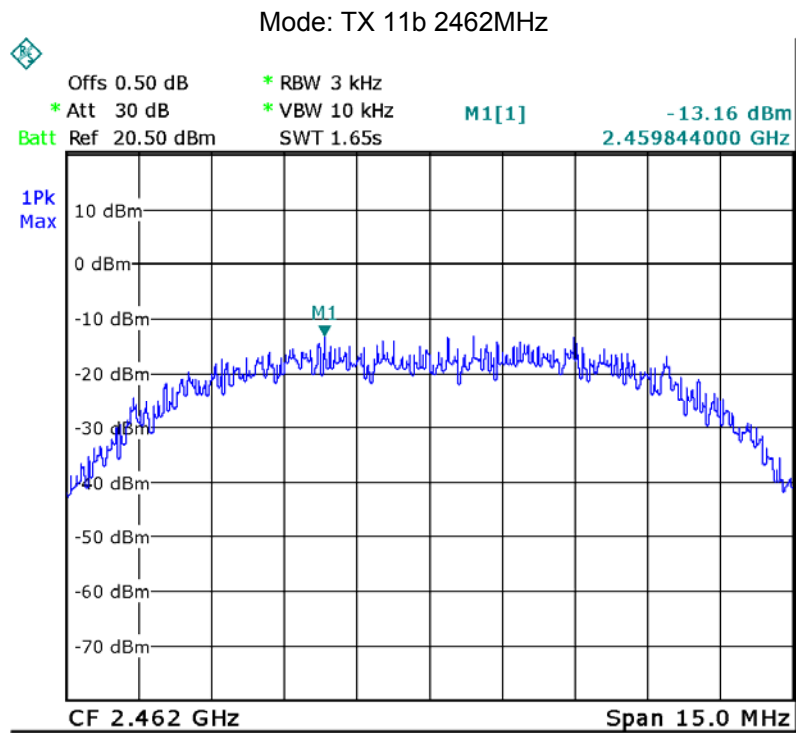
Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-12.47	-13.31	-13.16
Limit: 8dBm per 3kHz		

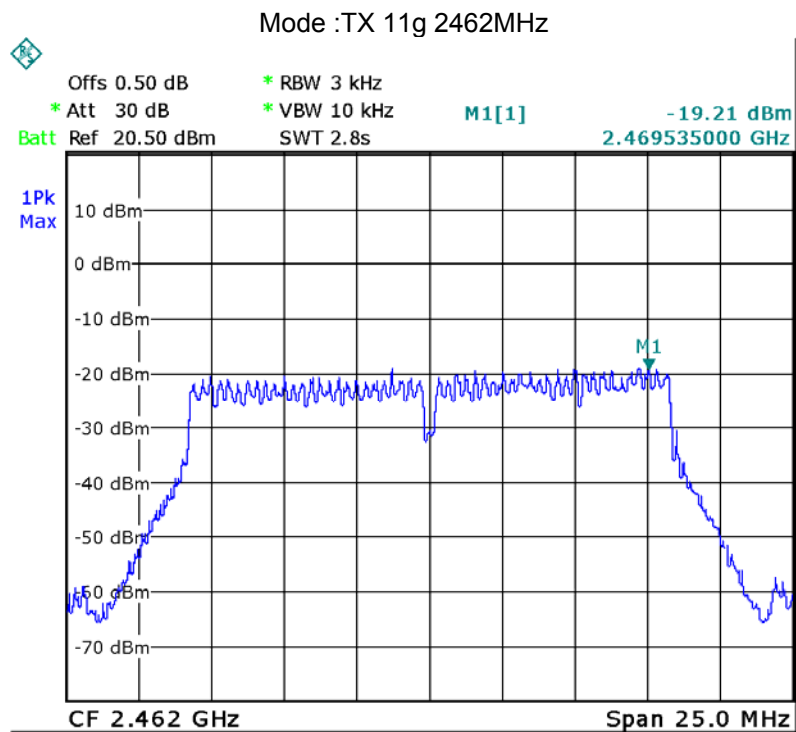
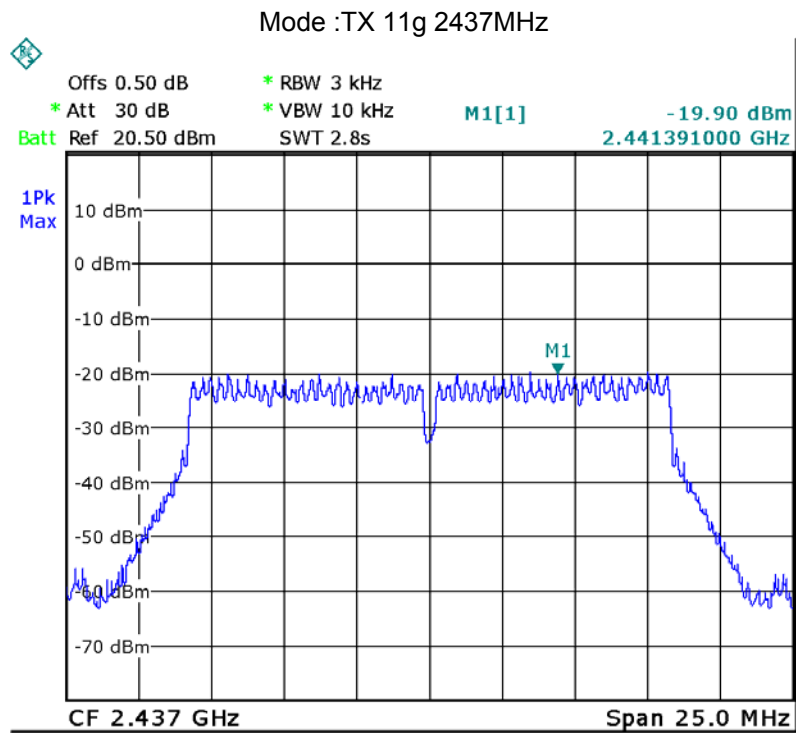
Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-18.95	-19.90	-19.21
Limit: 8dBm per 3kHz		

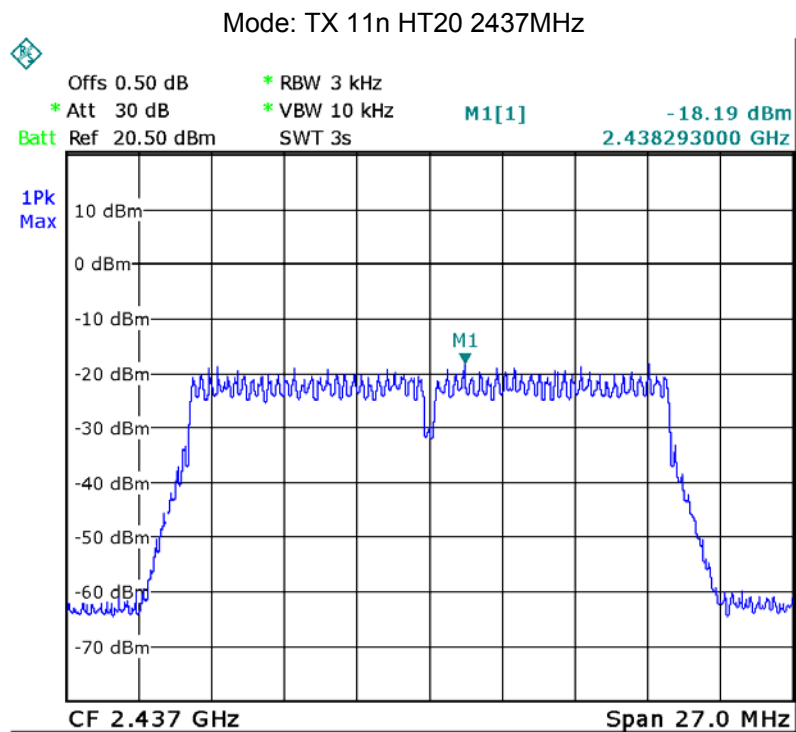
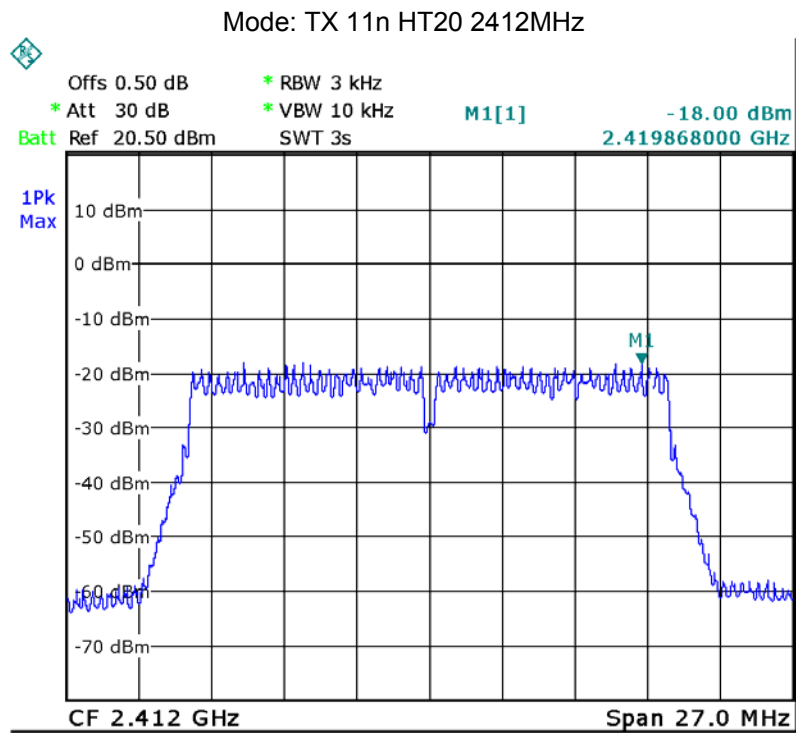
Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-18.00	-18.19	-18.28
Limit: 8dBm per 3kHz		

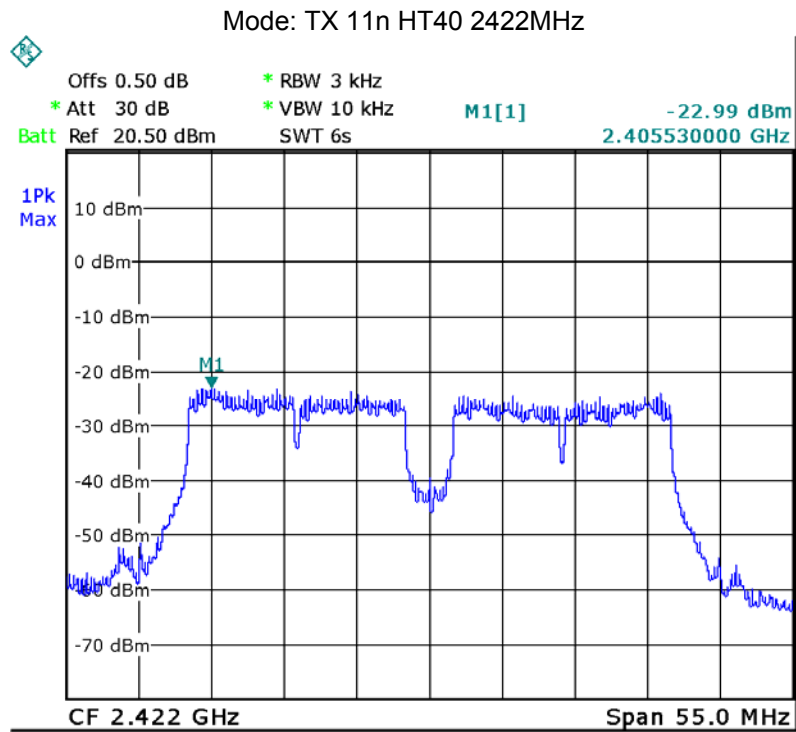
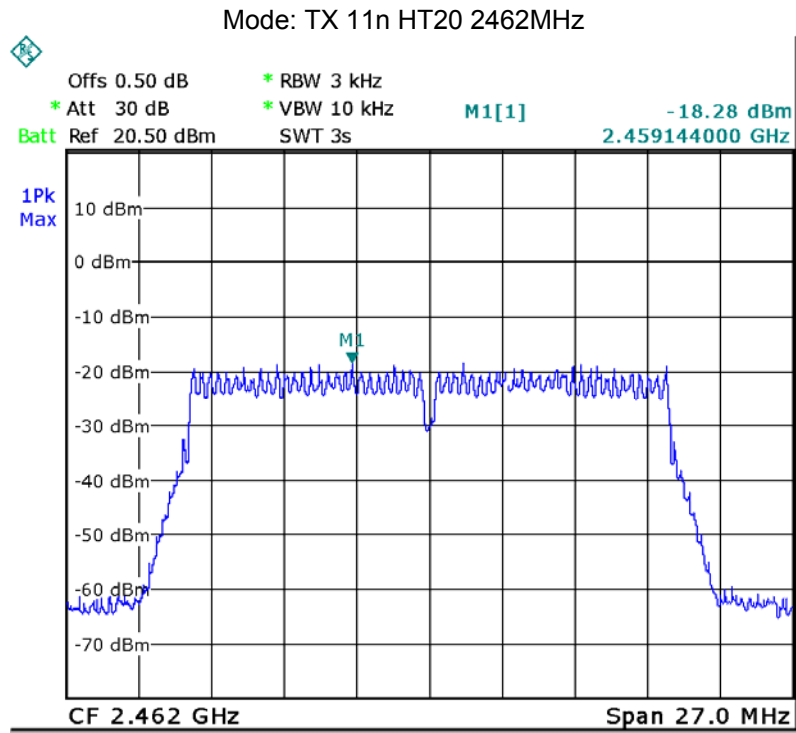
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-22.99	-22.84	-22.57
Limit: 8dBm per 3kHz		

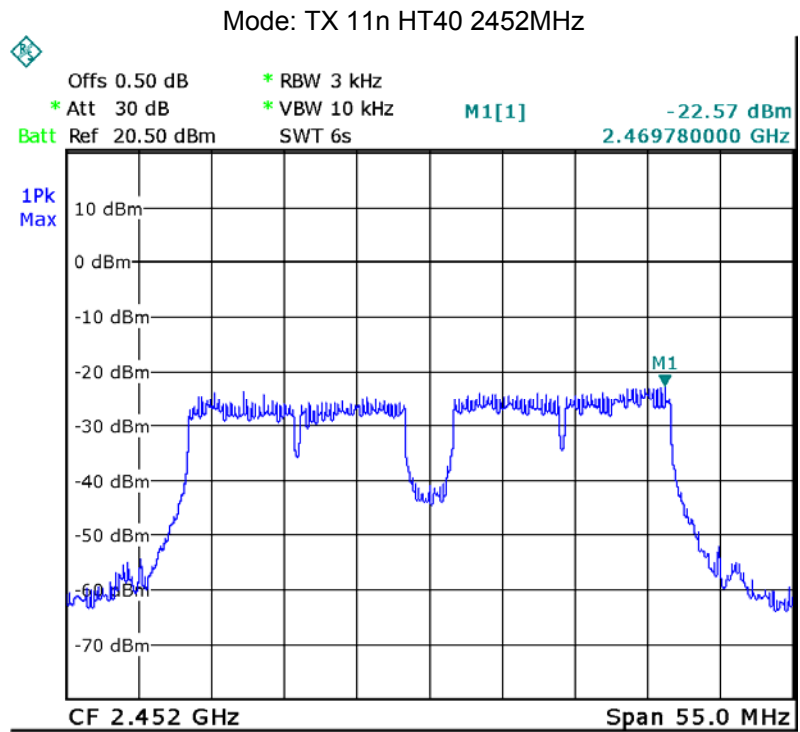
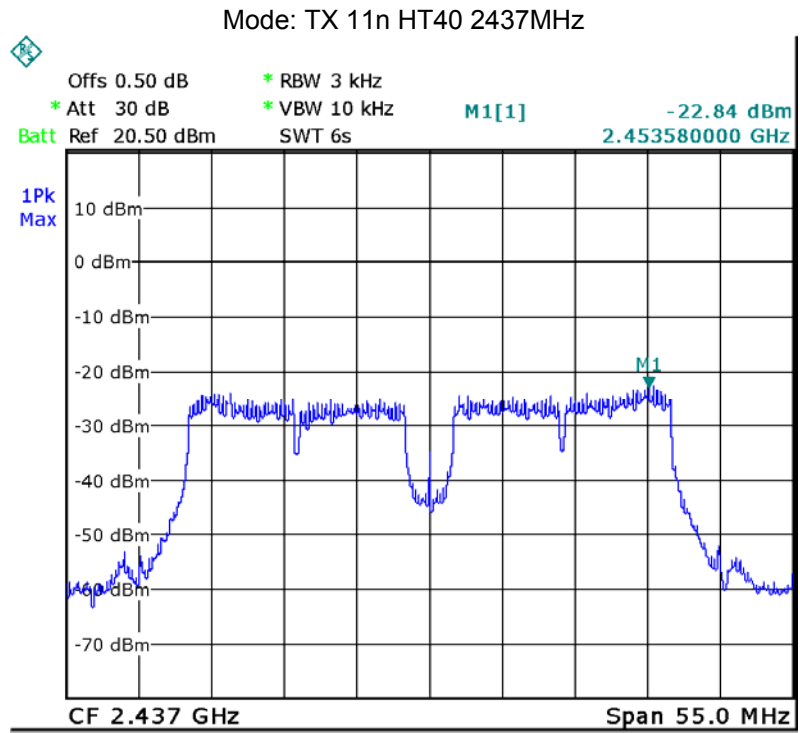












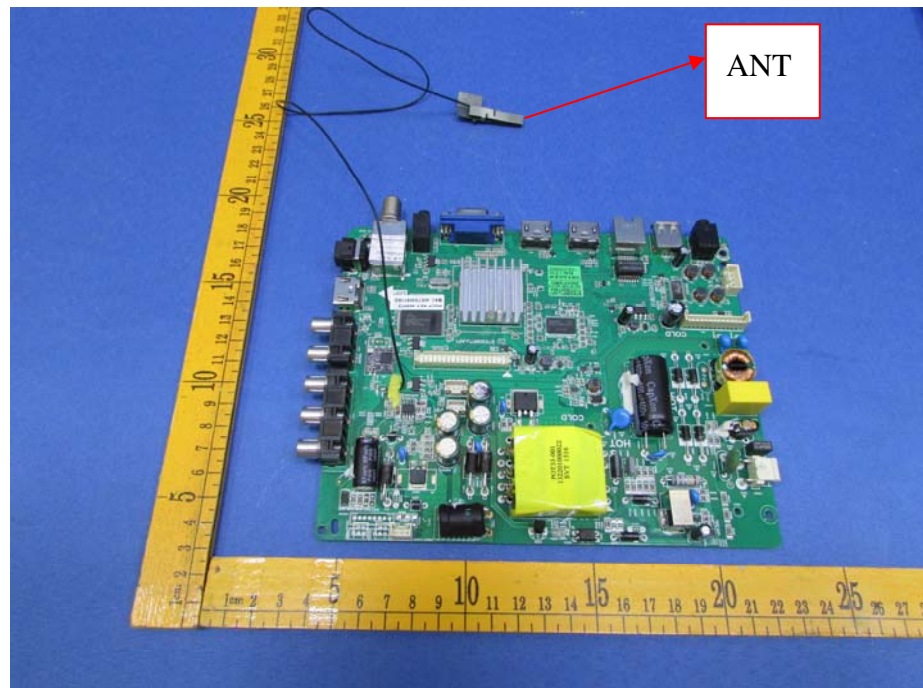
12 Antenna Requirement

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



13 RF Exposure

Test Requirement: FCC Part 1.1307

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

13.1 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.

13.2 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

13.3 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
2.00	1.585	16.30	42.66	0.0135	1	Compliance

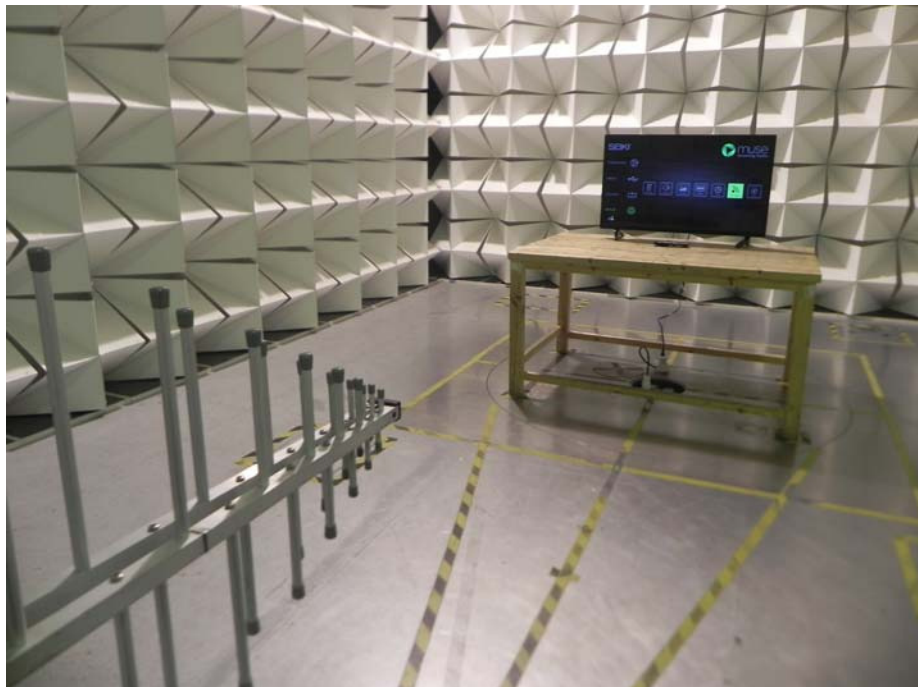
14 Photographs – Model ELST4316S Test Setup

14.1 Radiated Emission

Test frequency 24MHz to 30MHz at Test Site 2#



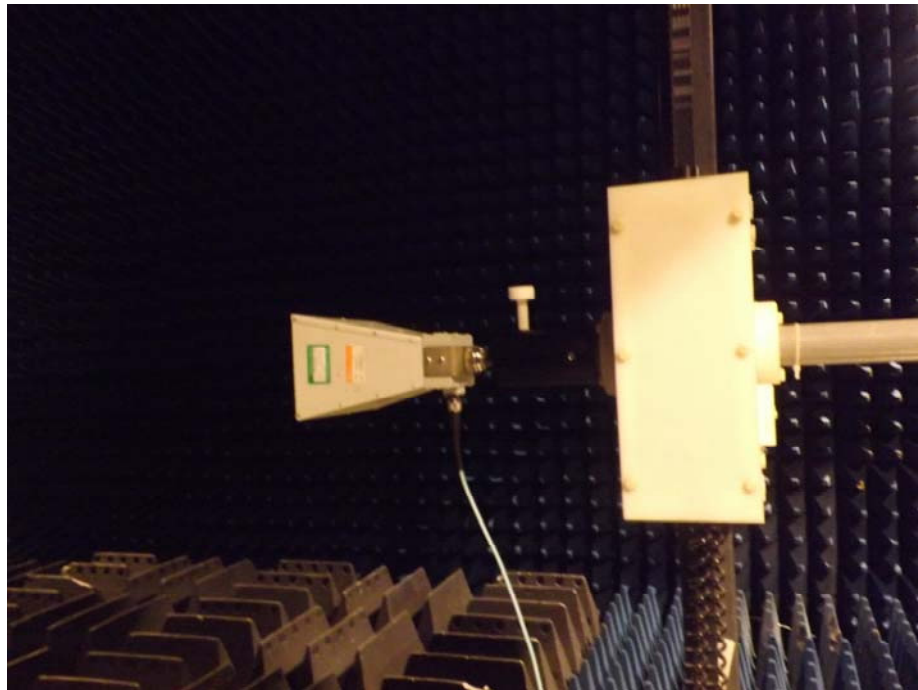
Test frequency from 30MHz to 1GHz at Test Site 2#





Test frequency above 1GHz at Test Site 1#





14.2 Conducted Emission at Test Site 1#



15 Photographs - Constructional Details

15.1 Model ELST4316S -External Photos



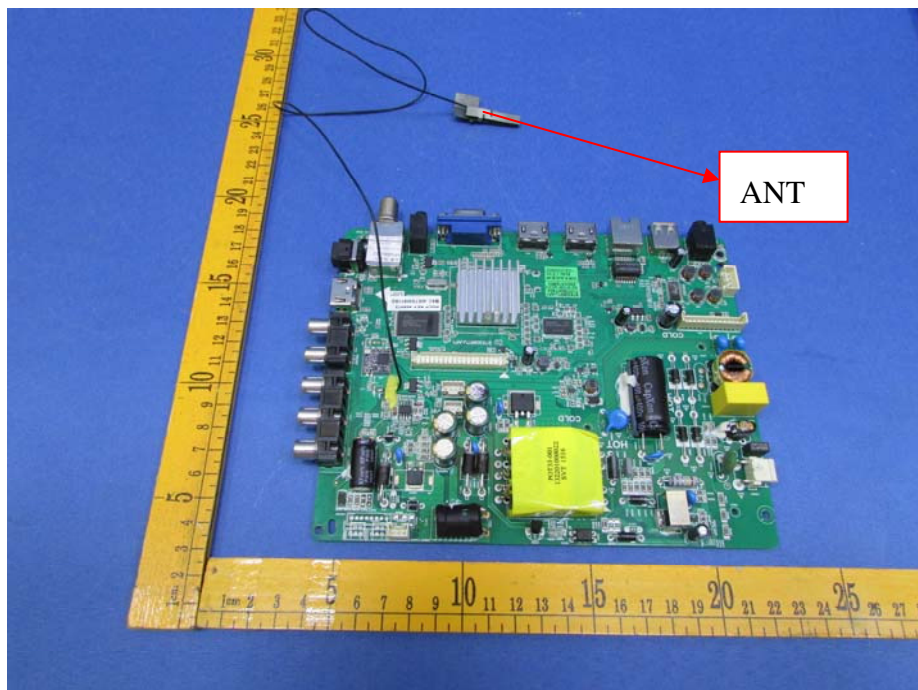


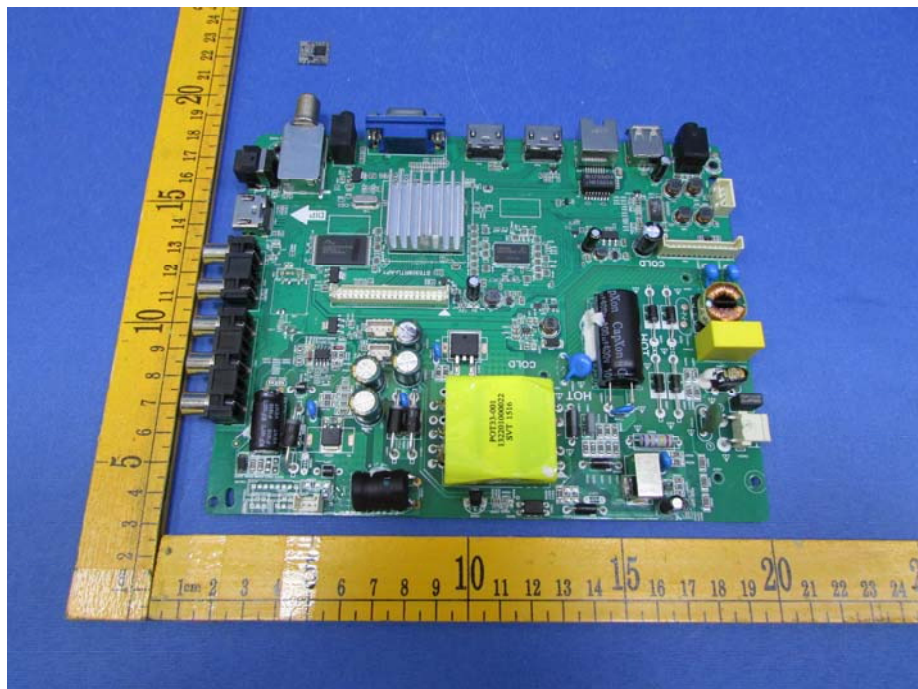


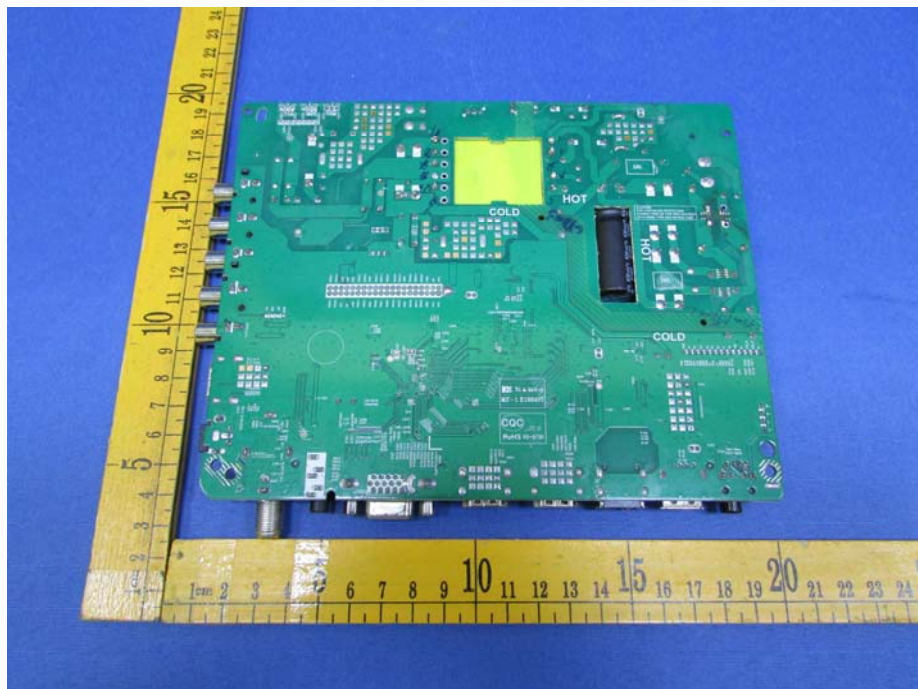


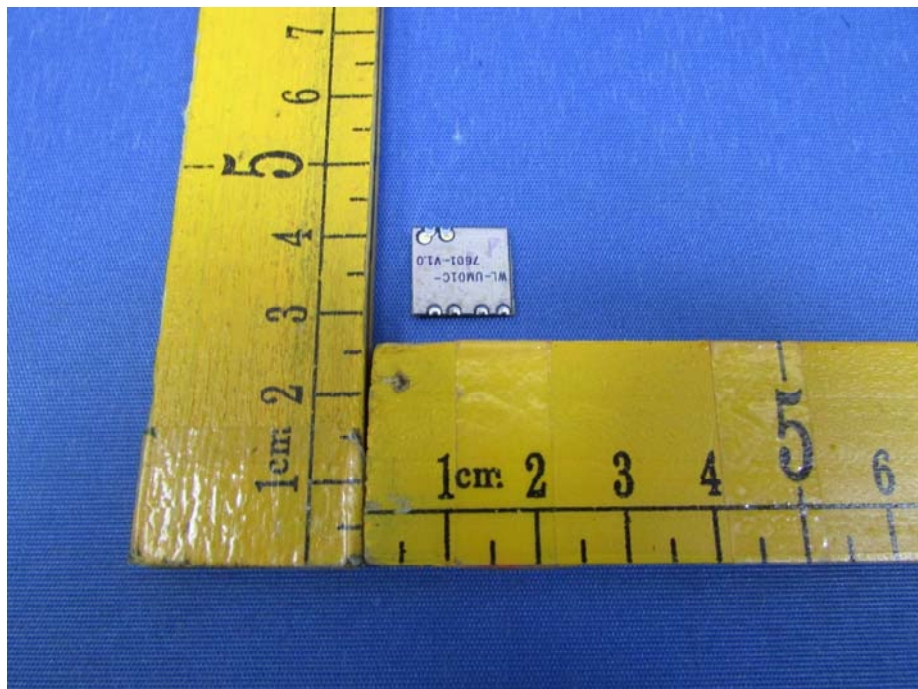
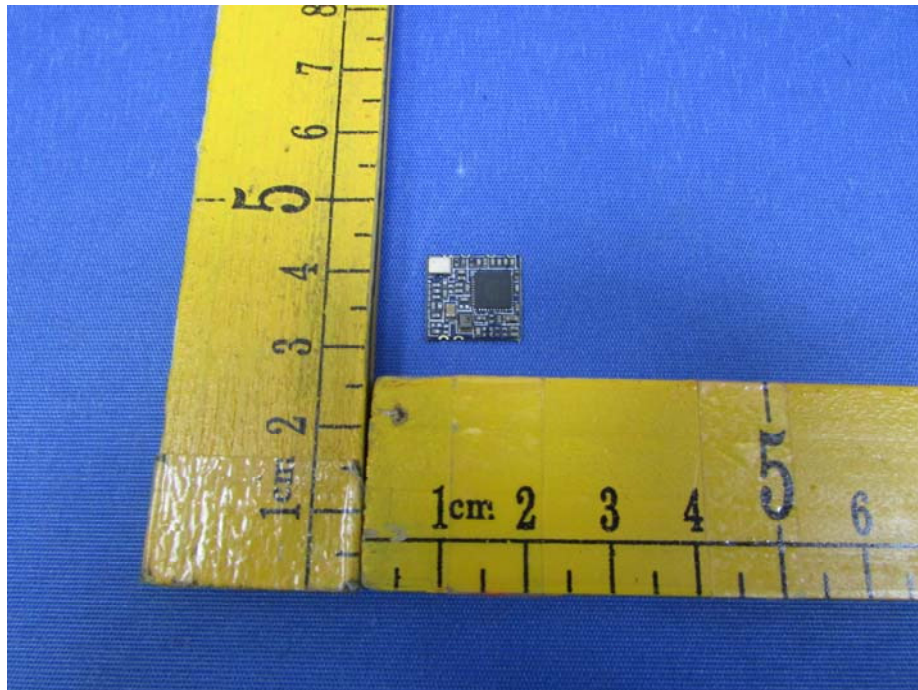


15.2 Model ELST4316S -Internal Photos









====End of Report====