

TEST REPORT

Reference No. : WTS18S03106959-1W
FCC ID : NZ3-WN575A2
Applicant : Winstars Technology Limited
Address : Block 4, TaiSong Industrial Park, DaLang Street, LongHua Town,
Bao'an district, Shenzhen, China
Manufacturer : Winstars Technology Limited
Address : Block 4, TaiSong Industrial Park, DaLang Street, LongHua Town,
Bao'an district, Shenzhen, China
Product : Wireless AP/Router
Model(s) : WS-WN575A2, WL-WN575A2
Standards : FCC CFR47 Part 15 C Section 15.247: 2017
Date of Receipt sample : 2018-03-30
Date of Test : 2018-04-02 to 2018-04-09
Date of Issue : 2018-04-10
Test Result : **Pass**

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company.
The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Prepared By:

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2 Laboratories Introduction

Waltek Services (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation) 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. ElectroMagnetic 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.

2.1 Test Facility

A. Accreditations for Conformity Assessment (International)

Country/Region	Accreditation Body	Scope	Note
USA	A2LA (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	International Services	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

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4 Revision History

Test report #	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS18S03106959-1W	2018-03-30	2018-04-02 to 2018-04-09	2018-04-10	Original	-	Valid

5 General Information

5.1 General Description of E.U.T

Product:	Wireless AP/Router
Model(s):	WS-WN575A2, WL-WN575A2
Model Difference:	Only the model names are different. The model WS-WN575A2 is the test sample.
Operation Frequency:	802.11b/g/n HT20: 2412MHz ~ 2462MHz, 802.11n HT40: 2422MHz~2452MHz
RF output power	Wifi: 12.86dBm
The Lowest Oscillator:	40MHz
Antenna installation:	Dipole Antenna
Antenna Gain:	ANT1, ANT2: 3dBi
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.)

5.2 Details of E.U.T

Ratings	Input: 100-240V~, 50/60Hz, 0.3A
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5.3 Channel List

WIFI

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

5.4 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
Frequency Range	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
Transmitter Spurious 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.

6 Equipment Used during Test

6.1 Equipments List

Conducted Emissions Test Site						
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.	Limitter	York	MTS-IMP-136	261115-001-0024	2017-09-12	2018-09-11
4.	Cable	LARGE	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	SCHWARZBECK	BBHA 9120 D	667	2018-04-09	2019-04-08
3	Broadband Preamplicifier	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	SCHWARZBECK	BBHA 9170	335	2017-09-14	2018-09-13
7	Microwave Broadband Preamplicifier	SCHWARZBECK	BBV 9721	100472	2017-10-25	2018-10-24
8	Cable	Top	18GHz-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	Ative Loop Antenna	Beijing Dazhi	ZN30900A	-	2017-10-17	2018-10-16
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-08	2019-04-07
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.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	2017-09-14	2018-09-13

2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-12	2018-09-11
4.	Coaxial Cable (10Hz-30GHz)	/	/	/	2017-09-12	2018-09-11
5.	Antenna Connector*	/	/	/	2017-09-12	2018-09-11

“*”: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.

6.2 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)

6.3 Test Equipment Calibration

All the test equipments used are valid and calibrated by GUANG ZHOU GRG METROLOGY & TEST CO., LTD. address is No.163, Pingyun Rd. West of Huangpu Ave, Tianhe District, Guangzhou, Guangdong, China.

7 Test Summary

Test Items	Test Requirement	Result
Spurious Radiated Emissions	15.247 15.205(a) 15.209(a)	C
Conducted Emissions	15.207(a)	C
Conducted Spurious Emissions	15.247	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.		

8 Conducted Emission

Test Requirement:	FCC CFR 47 Part 15 Section 15.207
Test Method:	ANSI C63.10:2013
Test Result:	PASS
Frequency Range:	150kHz to 30MHz
Class/Severity:	Class B
Limit:	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)

8.1 E.U.T. Operation

Operating Environment :

Temperature: 21.5 °C

Humidity: 51.9 % RH

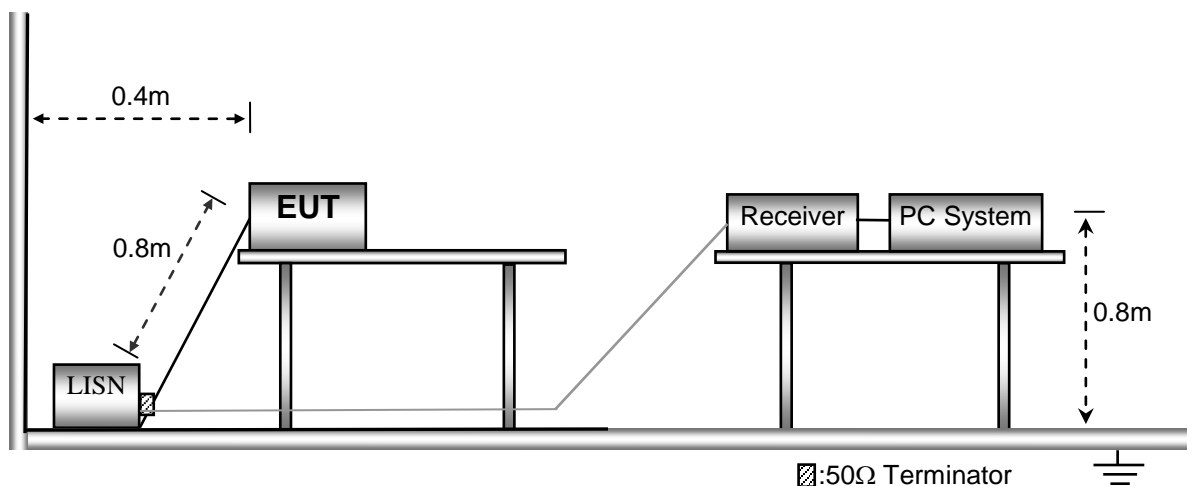
Atmospheric Pressure: 101.2kPa

EUT Operation : Transmitting mode

The test was performed in Transmitting mode(For BLE and WIFI), Only the worst case 802.11b mode were record in the report.

8.2 EUT Setup

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



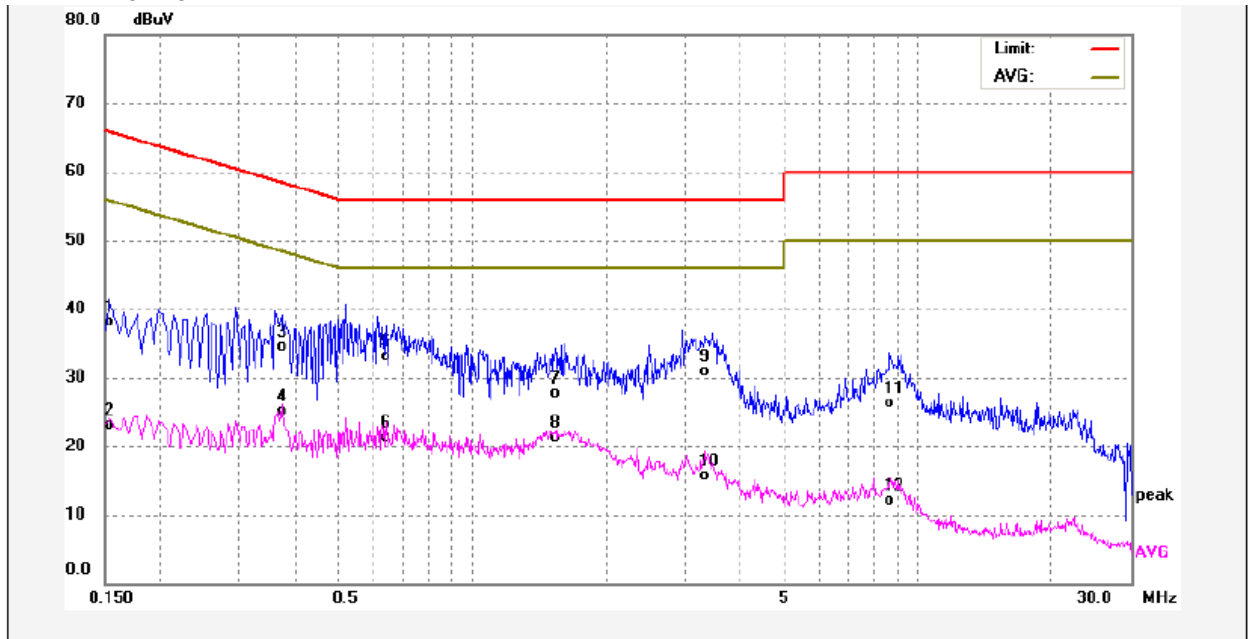
8.3 Measurement Description

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

8.4 Conducted Emission Test Result

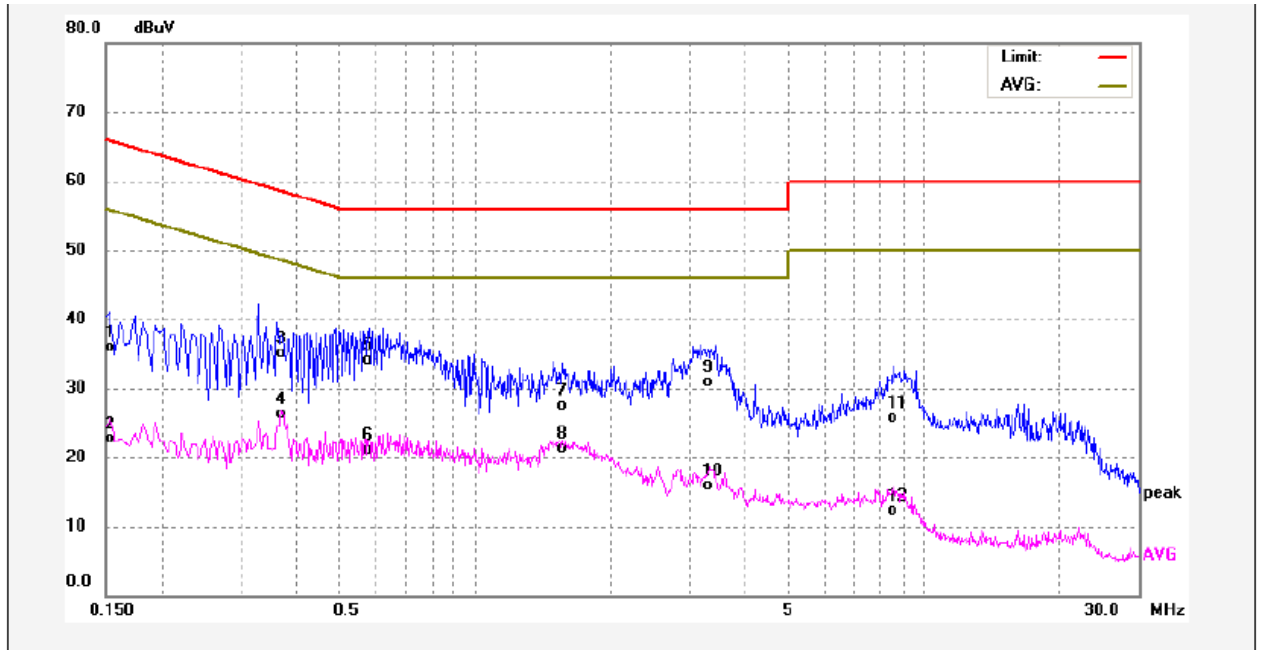
An initial pre-scan was performed on the live and neutral lines.

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	28.05	10.02	38.07	65.78	-27.71	QP	
2	0.1539	13.18	10.02	23.20	55.78	-32.58	AVG	
3	0.3740	24.54	10.05	34.59	58.41	-23.82	QP	
4	0.3740	15.12	10.05	25.17	48.41	-23.24	AVG	
5	0.6419	23.02	10.08	33.10	56.00	-22.90	QP	
6	0.6419	11.28	10.08	21.36	46.00	-24.64	AVG	
7	1.5500	17.55	10.15	27.70	56.00	-28.30	QP	
8	1.5500	11.16	10.15	21.31	46.00	-24.69	AVG	
9	3.3300	20.59	10.25	30.84	56.00	-25.16	QP	
10	3.3300	5.40	10.25	15.65	46.00	-30.35	AVG	
11	8.7140	15.92	10.33	26.25	60.00	-33.75	QP	
12	8.7140	1.76	10.33	12.09	50.00	-37.91	AVG	

Neutral line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1539	25.98	10.02	36.00	65.78	-29.78	QP	
2	0.1539	12.59	10.02	22.61	55.78	-33.17	AVG	
3	0.3700	24.98	10.05	35.03	58.50	-23.47	QP	
4	0.3700	16.26	10.05	26.31	48.50	-22.19	AVG	
5	0.5820	24.09	10.06	34.15	56.00	-21.85	QP	
6	0.5820	10.97	10.06	21.03	46.00	-24.97	AVG	
7	1.5620	17.43	10.16	27.59	56.00	-28.41	QP	
8	1.5620	11.12	10.16	21.28	46.00	-24.72	AVG	
9	3.3140	20.74	10.25	30.99	56.00	-25.01	QP	
10	3.3140	5.57	10.25	15.82	46.00	-30.18	AVG	
11	8.5100	15.34	10.33	25.67	60.00	-34.33	QP	
12	8.5100	2.05	10.33	12.38	50.00	-37.62	AVG	

9 Radiated 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	$2400/F(\text{kHz})$	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	$20\log^{(500)}$

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

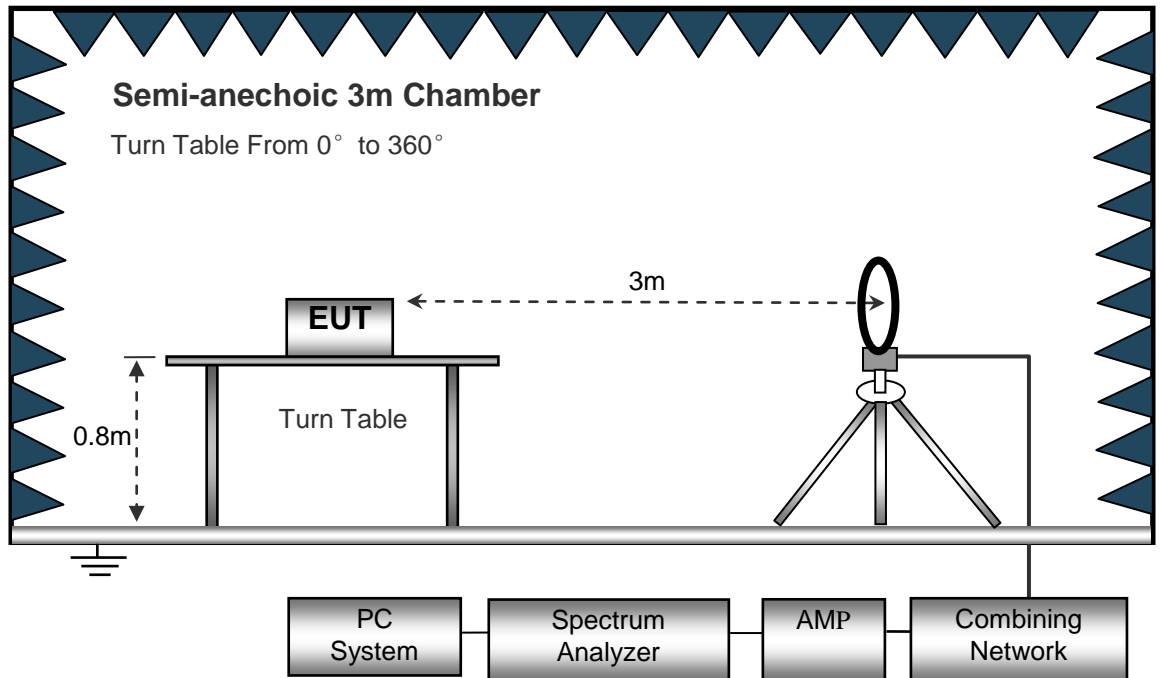
EUT Operation :

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

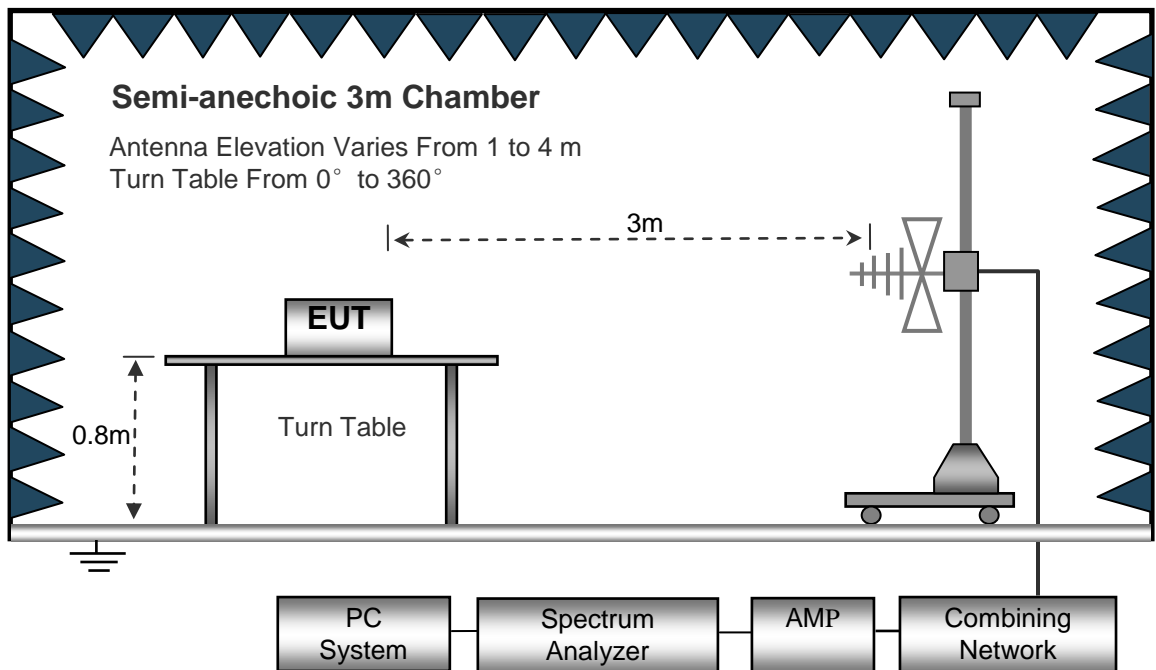
9.2 Test Setup

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

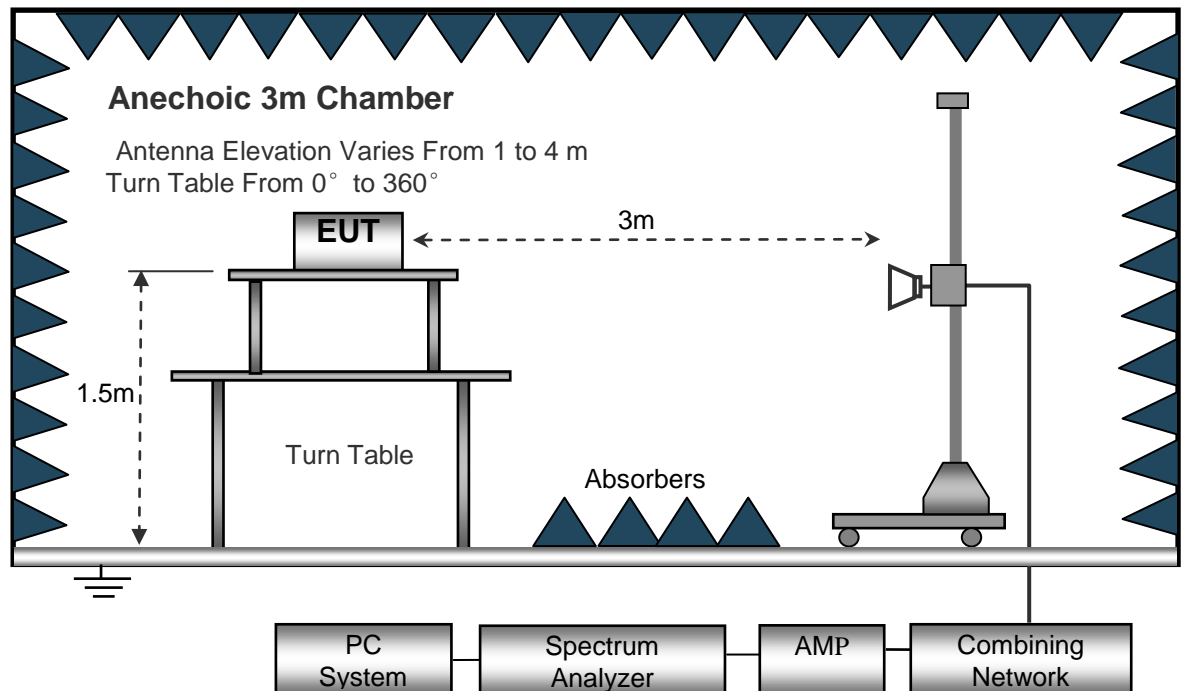
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



9.3 Spectrum Analyzer Setup

Below 30MHz

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

9.4 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.

9.5 Corrected Amplitude & Margin Calculation

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

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

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:

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

9.6 Summary of Test Results

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									
486.16	15.73	PK	231	1.5	H	21.09	36.82	45.00	-8.18
486.16	12.99	PK	156	1.9	V	21.09	34.08	45.00	-10.92
4824.00	51.93	PK	277	1.6	V	-1.05	50.88	74.00	-23.12
4824.00	41.75	Ave	277	1.6	V	-1.05	40.70	54.00	-13.30
7236.00	47.94	PK	261	1.9	H	1.34	49.28	74.00	-24.72
7236.00	38.81	Ave	261	1.9	H	1.34	40.15	54.00	-13.85
2333.18	46.95	PK	68	2.0	V	-13.19	33.76	74.00	-40.24
2333.18	38.78	Ave	68	2.0	V	-13.19	25.59	54.00	-28.41
2383.88	42.14	PK	17	1.5	H	-13.15	28.99	74.00	-45.01
2383.88	36.31	Ave	17	1.5	H	-13.15	23.16	54.00	-30.84
2496.98	42.54	PK	267	1.5	V	-13.08	29.46	74.00	-44.54
2496.98	38.81	Ave	267	1.5	V	-13.08	25.73	54.00	-28.27

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)
11b: Middle Channel 2437MHz									
486.16	13.54	PK	121	1.1	H	21.09	34.63	45.00	-10.37
486.16	13.42	PK	222	1.1	V	21.09	34.51	45.00	-10.49
4874.00	50.84	PK	208	1.1	V	-0.63	50.21	74.00	-23.79
4874.00	42.55	Ave	208	1.1	V	-0.63	41.92	54.00	-12.08
7311.00	43.20	PK	75	1.1	H	2.21	45.41	74.00	-28.59
7311.00	42.53	Ave	75	1.1	H	2.21	44.74	54.00	-9.26
2321.72	45.46	PK	331	1.4	V	-13.19	32.27	74.00	-41.73
2321.72	38.19	Ave	331	1.4	V	-13.19	25.00	54.00	-29.00
2385.05	44.40	PK	228	1.5	H	-13.14	31.26	74.00	-42.74
2385.05	37.96	Ave	228	1.5	H	-13.14	24.82	54.00	-29.18
2489.09	44.07	PK	117	1.6	V	-13.09	30.98	74.00	-43.02
2489.09	38.18	Ave	117	1.6	V	-13.09	25.09	54.00	-28.91

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									
486.16	14.68	PK	21	1.4	H	21.09	35.77	45.00	-9.23
486.16	12.44	PK	64	1.1	V	21.09	33.53	45.00	-11.47
4924.00	50.33	PK	44	1.9	V	-0.25	50.08	74.00	-23.92
4924.00	43.19	Ave	44	1.9	V	-0.25	42.94	54.00	-11.06
7386.00	47.15	PK	165	1.5	H	2.85	50.00	74.00	-24.00
7386.00	42.15	Ave	165	1.5	H	2.85	45.00	54.00	-9.00
2330.18	46.12	PK	204	1.6	V	-13.19	32.93	74.00	-41.07
2330.18	37.63	Ave	204	1.6	V	-13.19	24.44	54.00	-29.56
2359.55	42.05	PK	345	1.0	H	-13.14	28.91	74.00	-45.09
2359.55	36.46	Ave	345	1.0	H	-13.14	23.32	54.00	-30.68
2499.47	44.16	PK	267	1.3	V	-13.09	31.07	74.00	-42.93
2499.47	38.63	Ave	267	1.3	V	-13.09	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: Low Channel 2412MHz									
486.16	13.24	PK	342	1.4	H	21.09	34.33	45.00	-10.67
486.16	13.53	PK	38	1.2	V	21.09	34.62	45.00	-10.38
4824.00	11.41	PK	61	1.3	V	-1.06	10.35	74.00	-63.65
4824.00	50.71	Ave	61	1.3	V	-1.06	49.65	54.00	-4.35
7236.00	49.61	PK	60	1.8	H	1.35	50.96	74.00	-23.04
7236.00	46.22	Ave	60	1.8	H	1.35	47.57	54.00	-6.43
2318.11	45.07	PK	194	1.7	V	-13.19	31.88	74.00	-42.12
2318.11	37.83	Ave	194	1.7	V	-13.19	24.64	54.00	-29.36
2360.89	42.81	PK	74	1.6	H	-13.14	29.67	74.00	-44.33
2360.89	38.37	Ave	74	1.6	H	-13.14	25.23	54.00	-28.77
2499.29	43.41	PK	61	1.2	V	-13.08	30.33	74.00	-43.67
2499.29	37.72	Ave	61	1.2	V	-13.08	24.64	54.00	-29.36

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									
486.16	11.87	PK	199	1.4	H	21.09	32.96	45.00	-12.04
486.16	14.70	PK	66	1.4	V	21.09	35.79	45.00	-9.21
4874.00	49.99	PK	159	1.3	V	-0.62	49.37	74.00	-24.63
4874.00	47.50	Ave	159	1.3	V	-0.62	46.88	54.00	-7.12
7311.00	48.61	PK	160	1.7	H	2.20	50.81	74.00	-23.19
7311.00	45.57	Ave	160	1.7	H	2.20	47.77	54.00	-6.23
2314.33	46.90	PK	110	1.6	V	-13.19	33.71	74.00	-40.29
2314.33	37.35	Ave	110	1.6	V	-13.19	24.16	54.00	-29.84
2368.71	43.49	PK	284	1.9	H	-13.15	30.34	74.00	-43.66
2368.71	38.01	Ave	284	1.9	H	-13.15	24.86	54.00	-29.14
2493.50	43.56	PK	329	1.4	V	-13.09	30.47	74.00	-43.53
2493.50	36.07	Ave	329	1.4	V	-13.09	22.98	54.00	-31.02

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									
486.16	13.20	PK	91	1.0	H	21.09	34.29	45.00	-10.71
486.16	16.66	PK	5	1.7	V	21.09	37.75	45.00	-7.25
4924.00	53.10	PK	184	1.2	V	-0.25	52.85	74.00	-21.15
4924.00	46.20	Ave	184	1.2	V	-0.25	45.95	54.00	-8.05
7386.00	46.23	PK	131	1.9	H	2.86	49.09	74.00	-24.91
7386.00	42.49	Ave	131	1.9	H	2.86	45.35	54.00	-8.65
2327.31	46.78	PK	274	1.2	V	-13.19	33.59	74.00	-40.41
2327.31	38.12	Ave	274	1.2	V	-13.19	24.93	54.00	-29.07
2356.03	42.16	PK	215	1.1	H	-13.14	29.02	74.00	-44.98
2356.03	37.17	Ave	215	1.1	H	-13.14	24.03	54.00	-29.97
2487.35	42.56	PK	157	1.7	V	-13.08	29.48	74.00	-44.52
2487.35	36.42	Ave	157	1.7	V	-13.08	23.34	54.00	-30.66

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									
486.16	14.61	PK	358	1.8	H	21.09	35.70	45.00	-9.30
486.16	14.28	PK	86	1.5	V	21.09	35.37	45.00	-9.63
4824.00	49.97	PK	1	1.5	V	-1.06	48.91	74.00	-25.09
4824.00	49.05	Ave	1	1.5	V	-1.06	47.99	54.00	-6.01
7236.00	46.32	PK	93	1.6	H	1.34	47.66	74.00	-26.34
7236.00	45.38	Ave	93	1.6	H	1.34	46.72	54.00	-7.28
2344.39	45.02	PK	170	1.3	V	-13.19	31.83	74.00	-42.17
2344.39	39.35	Ave	170	1.3	V	-13.19	26.16	54.00	-27.84
2380.76	42.34	PK	140	1.3	H	-13.14	29.20	74.00	-44.80
2380.76	38.79	Ave	140	1.3	H	-13.14	25.65	54.00	-28.35
2493.93	44.83	PK	121	1.2	V	-13.08	31.75	74.00	-42.25
2493.93	37.62	Ave	121	1.2	V	-13.08	24.54	54.00	-29.46

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)
n20: Middle Channel 2437MHz									
486.16	11.49	PK	157	1.5	H	21.09	32.58	45.00	-12.42
486.16	15.18	PK	118	1.8	V	21.09	36.27	45.00	-8.73
4874.00	48.55	PK	113	1.1	V	-0.61	47.94	74.00	-26.06
4874.00	50.60	Ave	113	1.1	V	-0.61	49.99	54.00	-4.01
7311.00	46.72	PK	69	1.6	H	2.21	48.93	74.00	-25.07
7311.00	42.38	Ave	69	1.6	H	2.21	44.59	54.00	-9.41
2321.67	46.51	PK	206	1.6	V	-13.19	33.32	74.00	-40.68
2321.67	37.64	Ave	206	1.6	V	-13.19	24.45	54.00	-29.55
2388.37	44.34	PK	345	1.3	H	-13.14	31.20	74.00	-42.80
2388.37	39.00	Ave	345	1.3	H	-13.14	25.86	54.00	-28.14
2488.75	43.16	PK	97	1.4	V	-13.09	30.07	74.00	-43.93
2488.75	37.67	Ave	97	1.4	V	-13.09	24.58	54.00	-29.42

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									
486.16	11.76	PK	99	1.8	H	21.09	32.85	45.00	-12.15
486.16	15.24	PK	215	1.7	V	21.09	36.33	45.00	-8.67
4924.00	52.57	PK	135	1.7	V	-0.24	52.33	74.00	-21.67
4924.00	51.53	Ave	135	1.7	V	-0.24	51.29	54.00	-2.71
7386.00	48.92	PK	142	1.1	H	2.83	51.75	74.00	-22.25
7386.00	45.80	Ave	142	1.1	H	2.83	48.63	54.00	-5.37
2367.89	46.11	PK	204	1.7	V	-13.19	32.92	74.00	-41.08
2367.89	38.53	Ave	204	1.7	V	-13.19	25.34	54.00	-28.66
2371.62	43.88	PK	49	1.9	H	-13.14	30.74	74.00	-43.26
2371.62	38.42	Ave	49	1.9	H	-13.14	25.28	54.00	-28.72
2493.28	44.87	PK	339	1.3	V	-13.08	31.79	74.00	-42.21
2493.28	36.26	Ave	339	1.3	V	-13.08	23.18	54.00	-30.82

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									
486.16	12.80	PK	80	1.0	H	21.09	33.89	45.00	-11.11
486.16	15.36	PK	296	1.2	V	21.09	36.45	45.00	-8.55
4844.00	48.54	PK	276	1.4	V	-1.06	47.48	74.00	-26.52
4844.00	46.80	Ave	276	1.4	V	-1.06	45.74	54.00	-8.26
7266.00	45.78	PK	149	1.0	H	1.34	47.12	74.00	-26.88
7266.00	42.50	Ave	149	1.0	H	1.34	43.84	54.00	-10.16
2340.02	46.65	PK	199	1.3	V	-13.19	33.46	74.00	-40.54
2340.02	38.91	Ave	199	1.3	V	-13.19	25.72	54.00	-28.28
2350.63	43.00	PK	341	1.4	H	-13.15	29.85	74.00	-44.15
2350.63	38.43	Ave	341	1.4	H	-13.15	25.28	54.00	-28.72
2490.72	43.92	PK	66	1.9	V	-13.08	30.84	74.00	-43.16
2490.72	36.04	Ave	66	1.9	V	-13.08	22.96	54.00	-31.04

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									
486.16	13.71	PK	168	1.1	H	21.09	34.80	45.00	-10.20
486.16	14.49	PK	142	1.2	V	21.09	35.58	45.00	-9.42
4874.00	48.01	PK	325	1.3	V	-0.62	47.39	74.00	-26.61
4874.00	49.88	Ave	325	1.3	V	-0.62	49.26	54.00	-4.74
7311.00	47.73	PK	178	2.0	H	2.21	49.94	74.00	-24.06
7311.00	42.90	Ave	178	2.0	H	2.21	45.11	54.00	-8.89
2322.32	46.59	PK	273	1.9	V	-13.19	33.40	74.00	-40.60
2322.32	37.28	Ave	273	1.9	V	-13.19	24.09	54.00	-29.91
2360.04	44.91	PK	7	1.2	H	-13.16	31.75	74.00	-42.25
2360.04	37.83	Ave	7	1.2	H	-13.16	24.67	54.00	-29.33
2494.80	44.93	PK	358	1.2	V	-13.08	31.85	74.00	-42.15
2494.80	37.66	Ave	358	1.2	V	-13.08	24.58	54.00	-29.42

Frequency (MHz)	Receiver Reading (dB μ V)	Detector (PK/QP/Ave)	Turn table Angle Degree	RX Antenna		Corrected Factor (dB)	Corrected Amplitude (dB μ V/m)	FCC Part 15.247/209/205	
				Height (m)	Polar (H/V)			Limit (dB μ V/m)	Margin (dB)
n40: High Channel 2452MHz									
486.16	14.57	PK	111	1.5	H	21.09	35.66	45.00	-9.34
486.16	12.64	PK	72	1.2	V	21.09	33.73	45.00	-11.27
4904.00	50.97	PK	356	1.6	V	-0.24	50.73	74.00	-23.27
4904.00	44.04	Ave	356	1.6	V	-0.24	43.80	54.00	-10.20
7356.00	47.51	PK	159	1.5	H	2.85	50.36	74.00	-23.64
7356.00	43.54	Ave	159	1.5	H	2.85	46.39	54.00	-7.61
2339.55	46.71	PK	203	1.6	V	-13.19	33.52	74.00	-40.48
2339.55	38.77	Ave	203	1.6	V	-13.19	25.58	54.00	-28.42
2358.02	43.38	PK	34	1.4	H	-13.14	30.24	74.00	-43.76
2358.02	36.88	Ave	34	1.4	H	-13.14	23.74	54.00	-30.26
2499.70	42.35	PK	184	1.3	V	-13.08	29.27	74.00	-44.73
2499.70	36.61	Ave	184	1.3	V	-13.08	23.53	54.00	-30.47

Test Frequency: 18GHz~25GHz

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

10 Band Edge Measurement

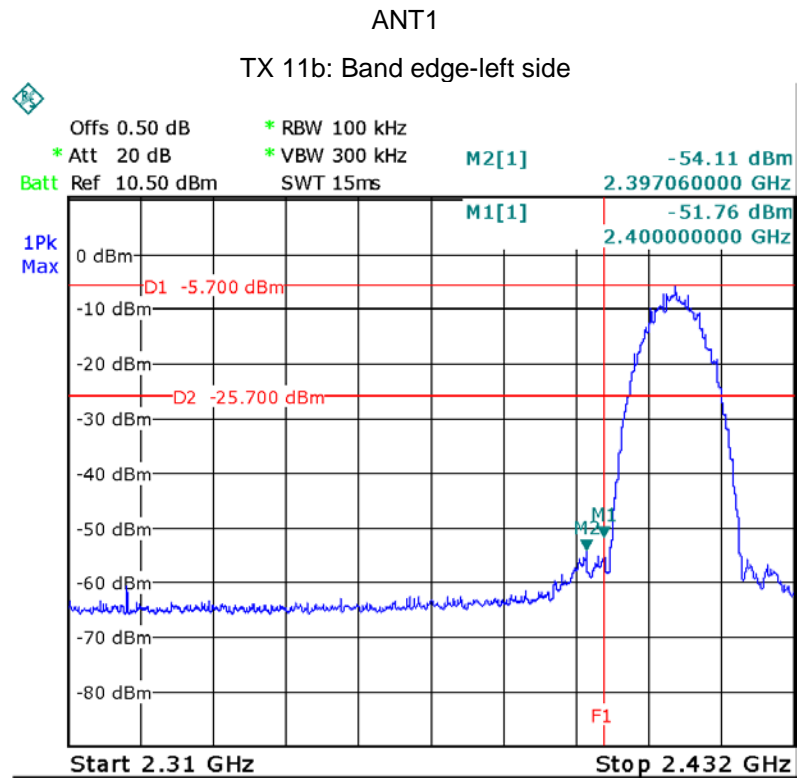
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance V04 662911 D01 Multiple Transmitter Output v02r01
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator 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

10.1 Test Produce

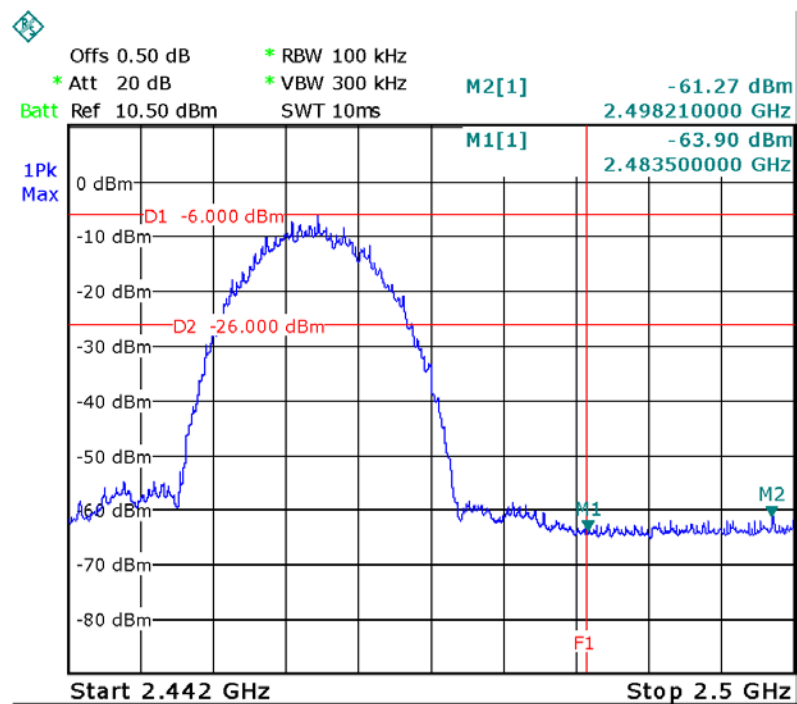
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

10.2 Test Result

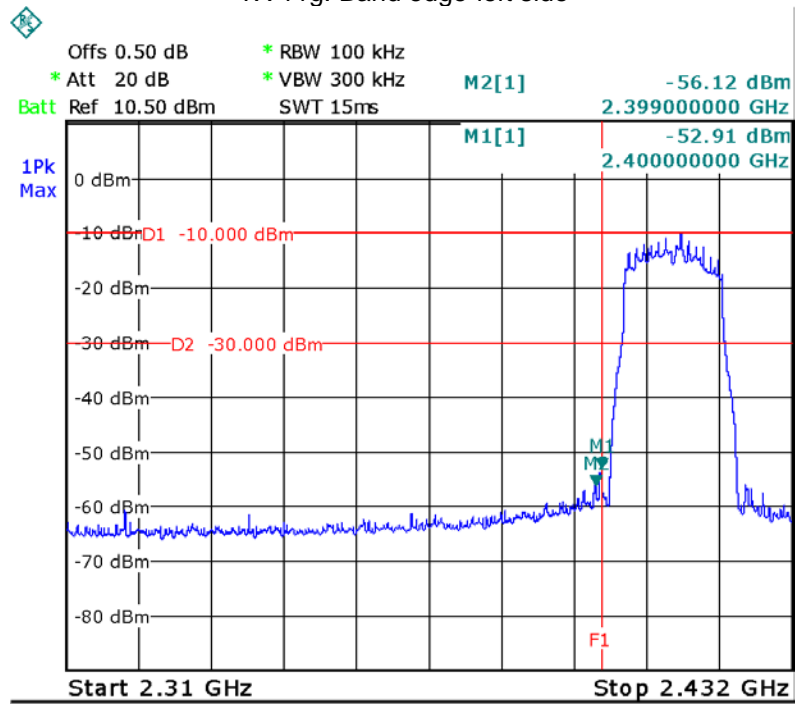
Test result plots shown as follows:



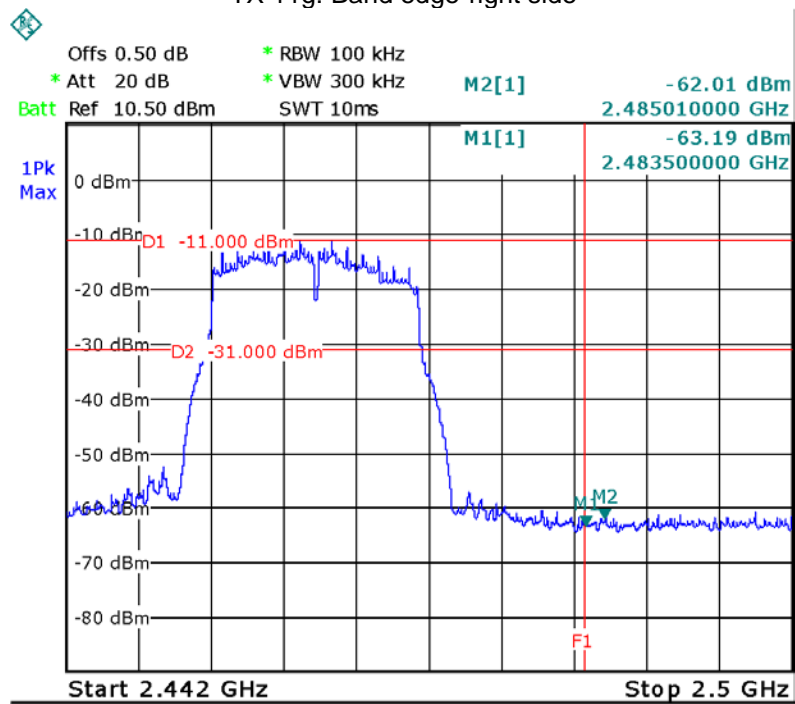
TX 11b: Band edge-right side



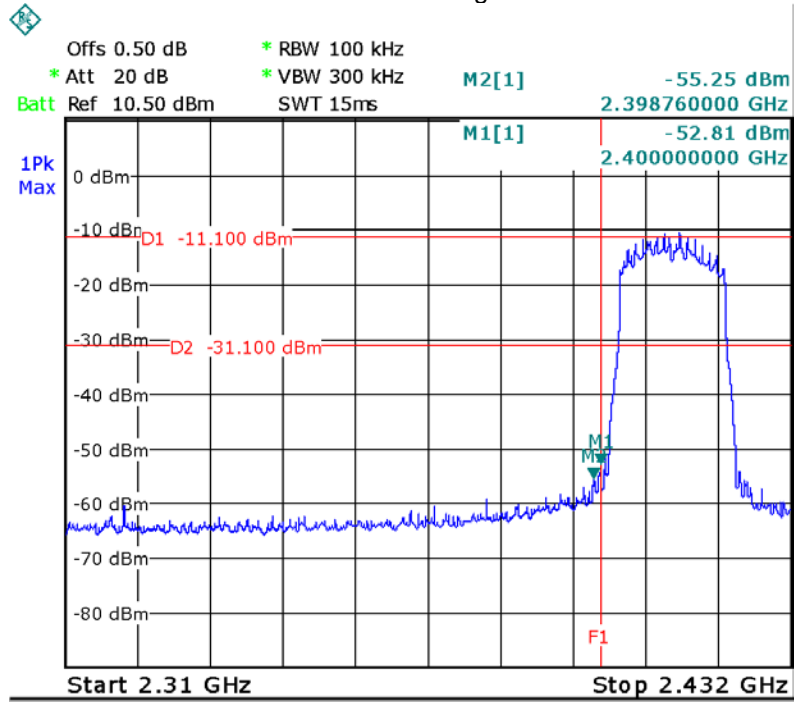
TX 11g: Band edge-left side



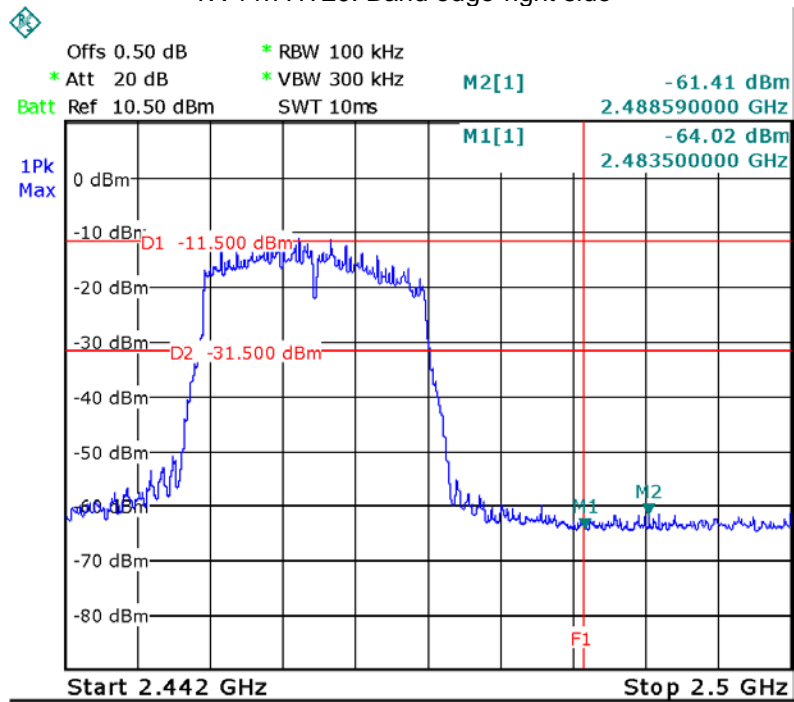
TX 11g: Band edge-right side



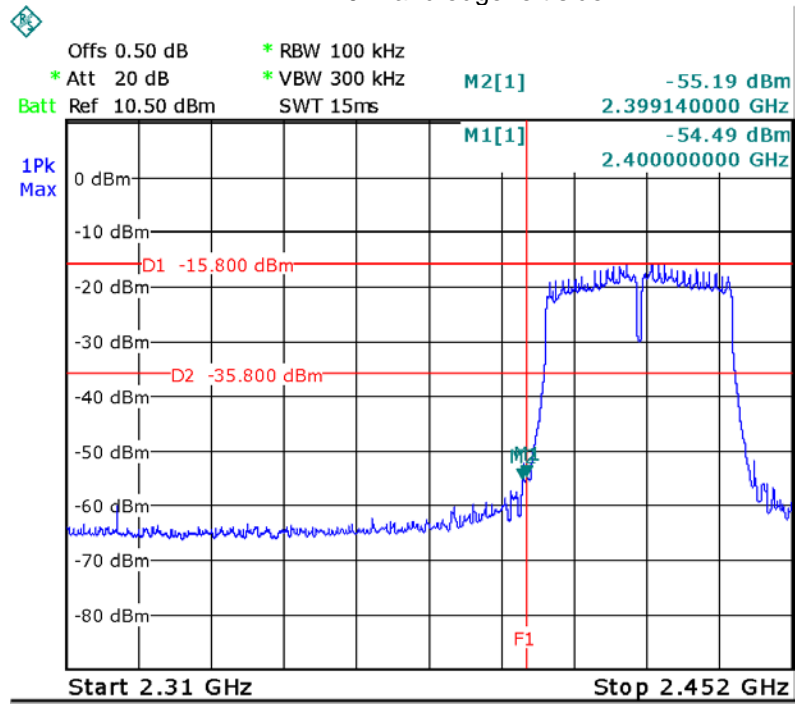
TX 11n HT20: Band edge-left side



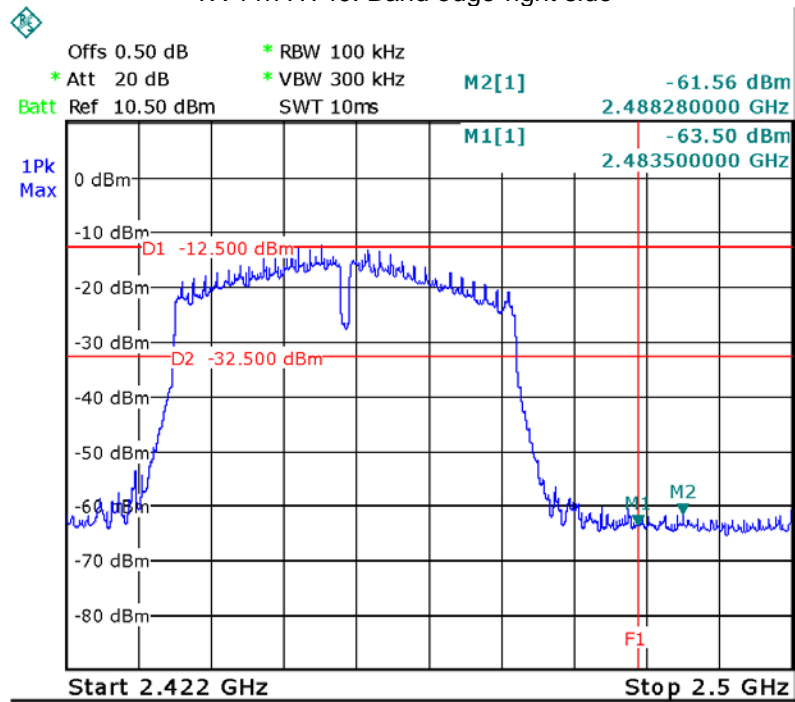
TX 11n HT20: Band edge-right side



TX 11n HT40: Band edge-left side

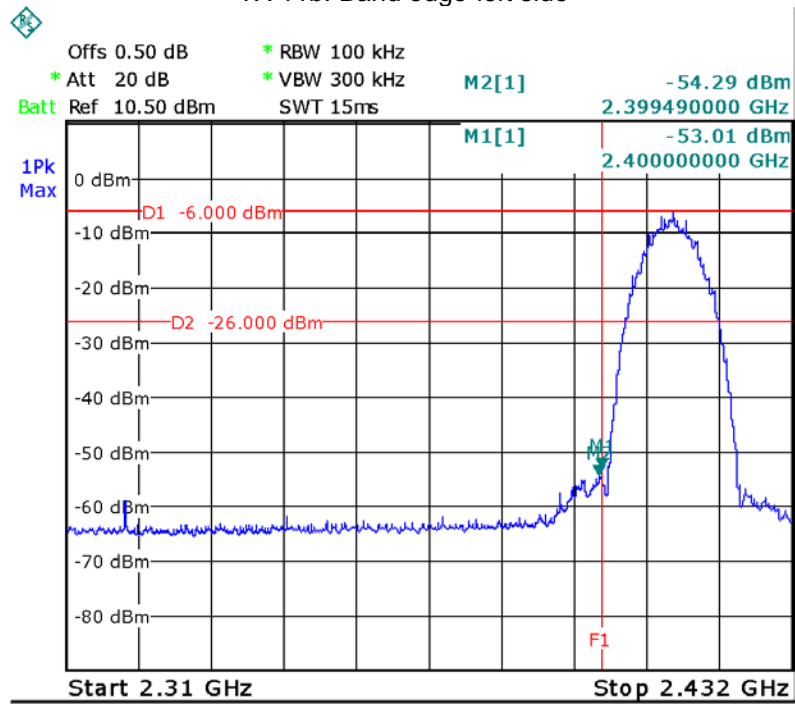


TX 11n HT40: Band edge-right side

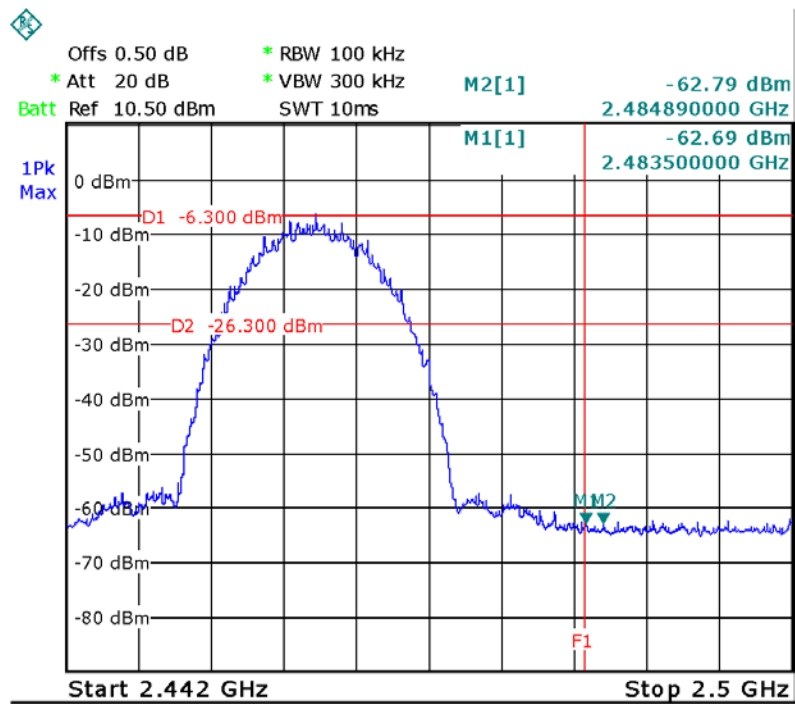


ANT2

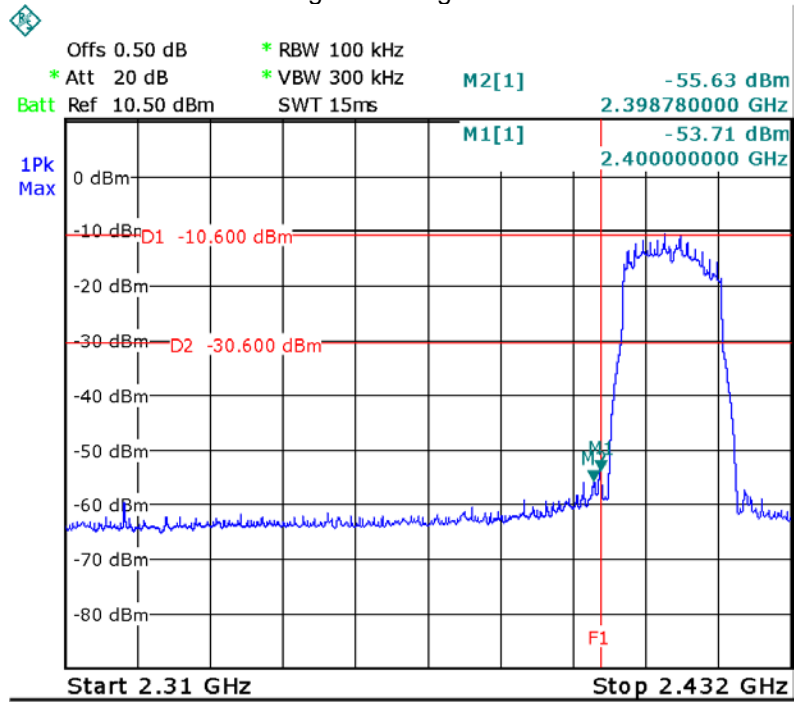
TX 11b: Band edge-left side



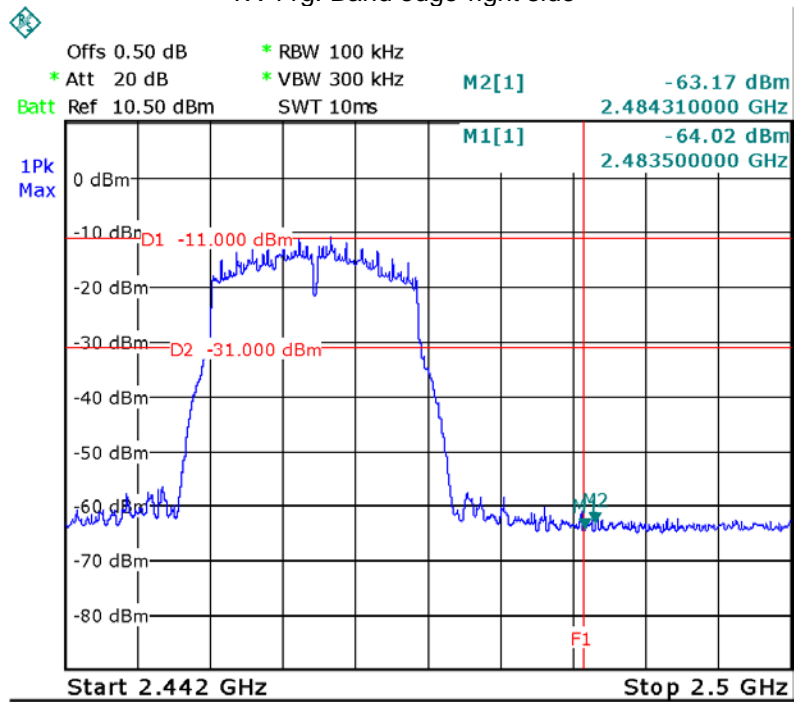
TX 11b: Band edge-right side



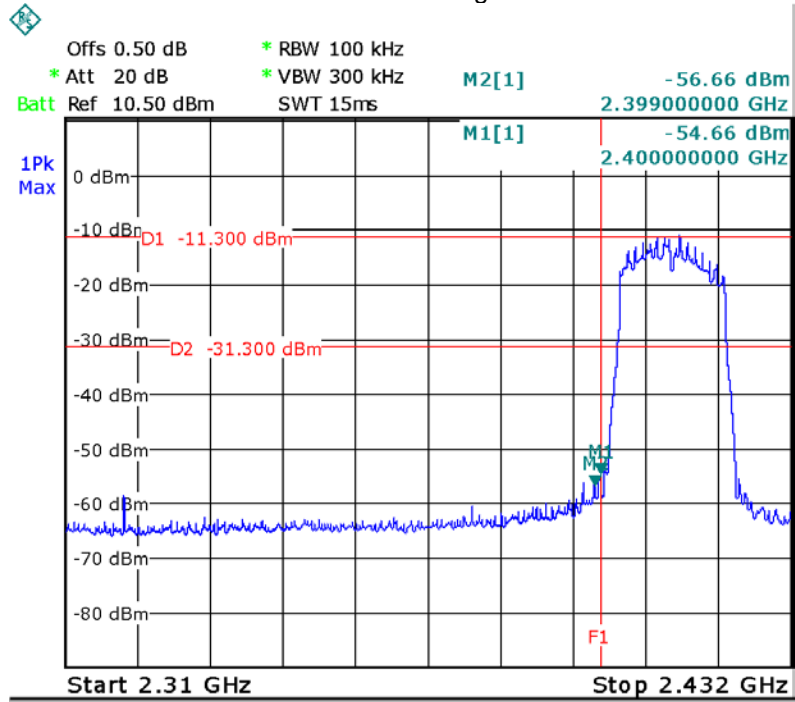
TX 11g: Band edge-left side



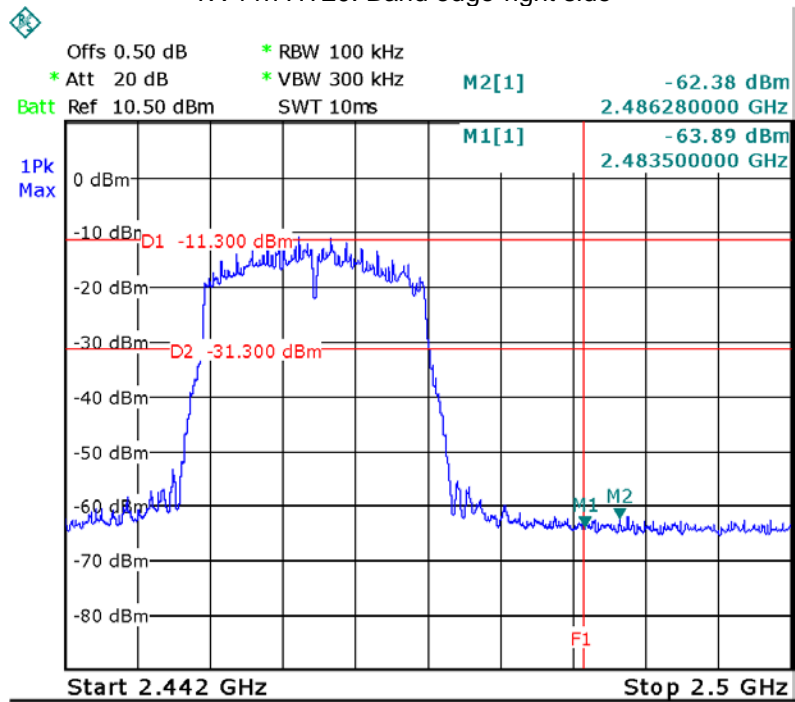
TX 11g: Band edge-right side



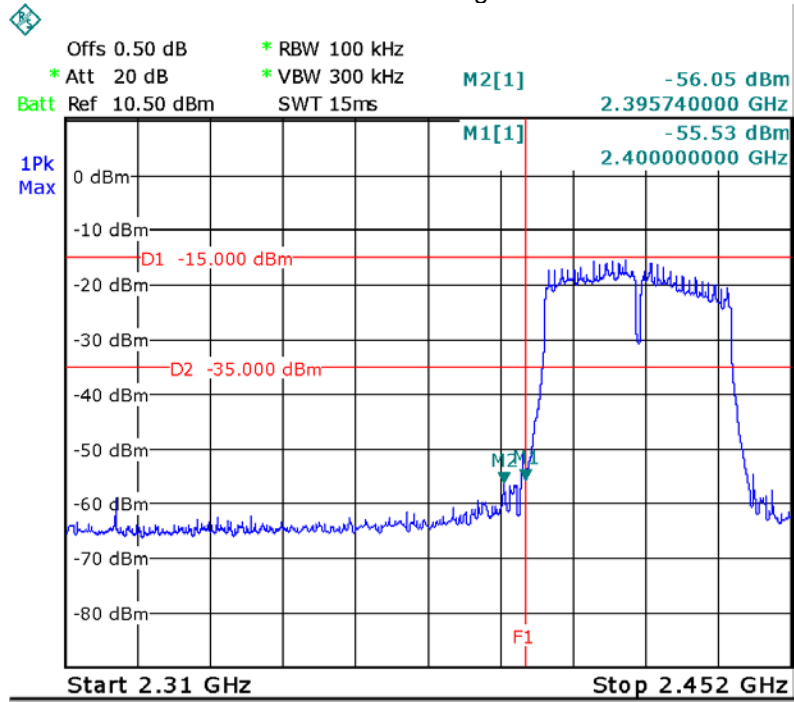
TX 11n HT20: Band edge-left side



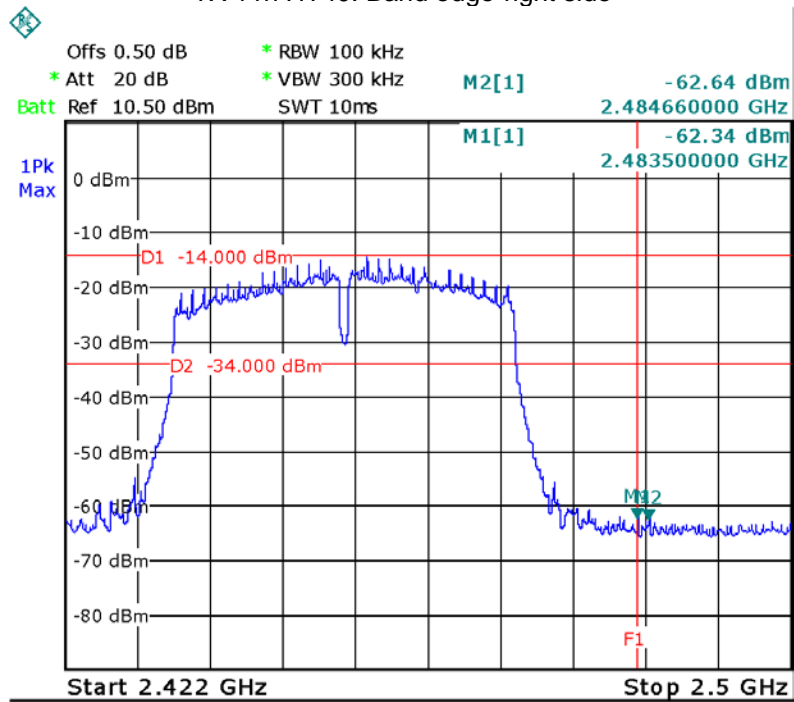
TX 11n HT20: Band edge-right side



TX 11n HT40: Band edge-left side



TX 11n HT40: Band edge-right side



11 Bandwidth Measurement

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance V04 662911 D01 Multiple Transmitter Output v02r01

11.1 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

11.2 Test Result:

ANT1:

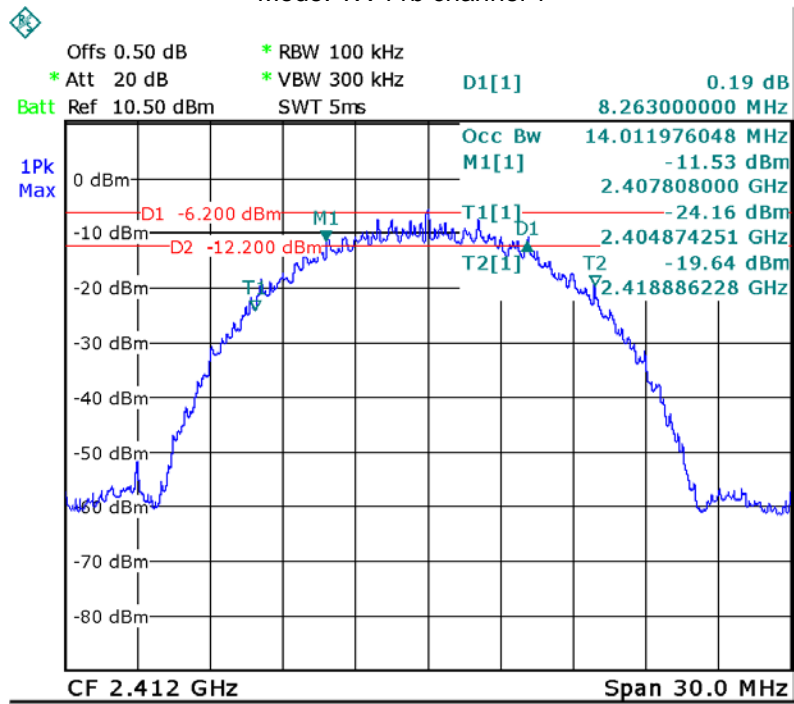
Operation mode	6dB Bandwidth (MHz)			99% Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
TX 11b	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	8.263	8.623	9.281	14.012	13.952	14.012
TX 11g	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	15.749	16.347	15.689	16.347	16.347	16.347
TX 11n HT20	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	16.228	16.946	16.228	17.544	17.485	17.425
TX 11n HT40	Channel 3	Channel 6	Channel 9	Channel 3	Channel 6	Channel 9
	35.930	35.090	31.260	36.048	35.689	35.329

ANT2:

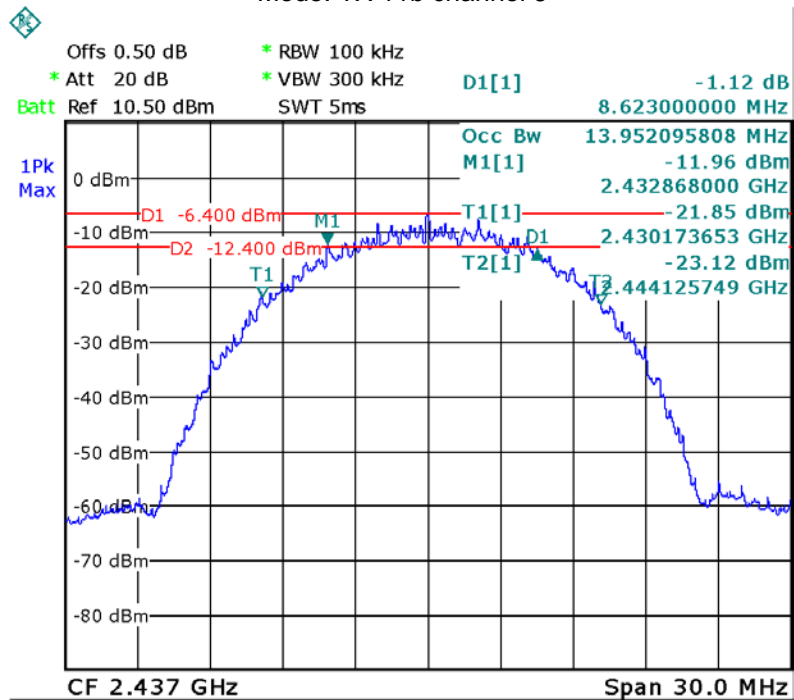
Operation mode	6dB Bandwidth (MHz)			99% Bandwidth (MHz)		
	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
TX 11b	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	9.162	8.323	8.323	14.072	13.952	13.772
TX 11g	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	15.713	15.713	15.713	16.335	16.383	16.335
TX 11n HT20	Channel 1	Channel 6	Channel 11	Channel 1	Channel 6	Channel 11
	16.228	17.186	16.287	17.485	17.485	17.425
TX 11n HT40	Channel 3	Channel 6	Channel 9	Channel 3	Channel 6	Channel 9
	35.450	35.570	35.090	35.928	35.928	36.689

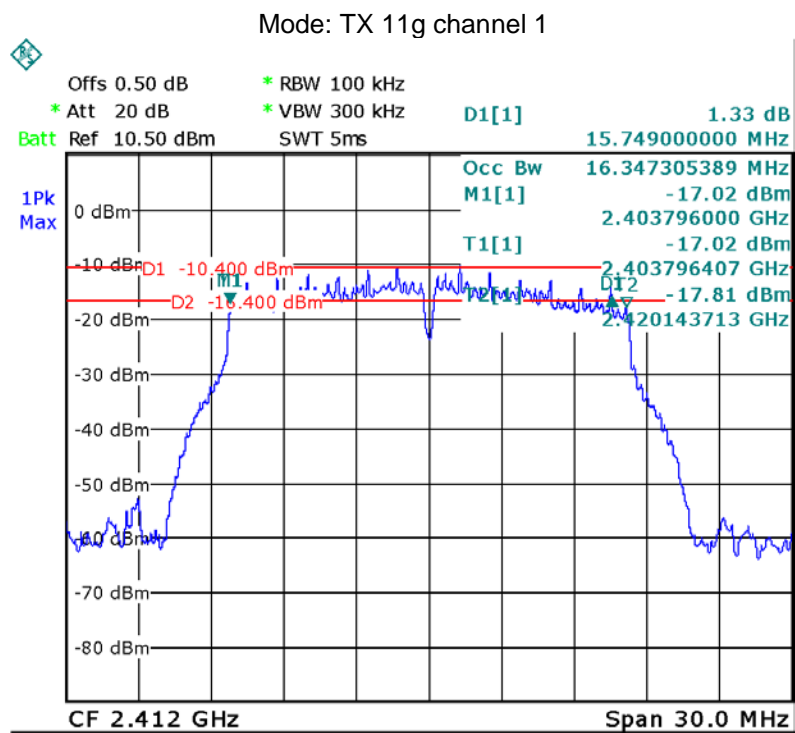
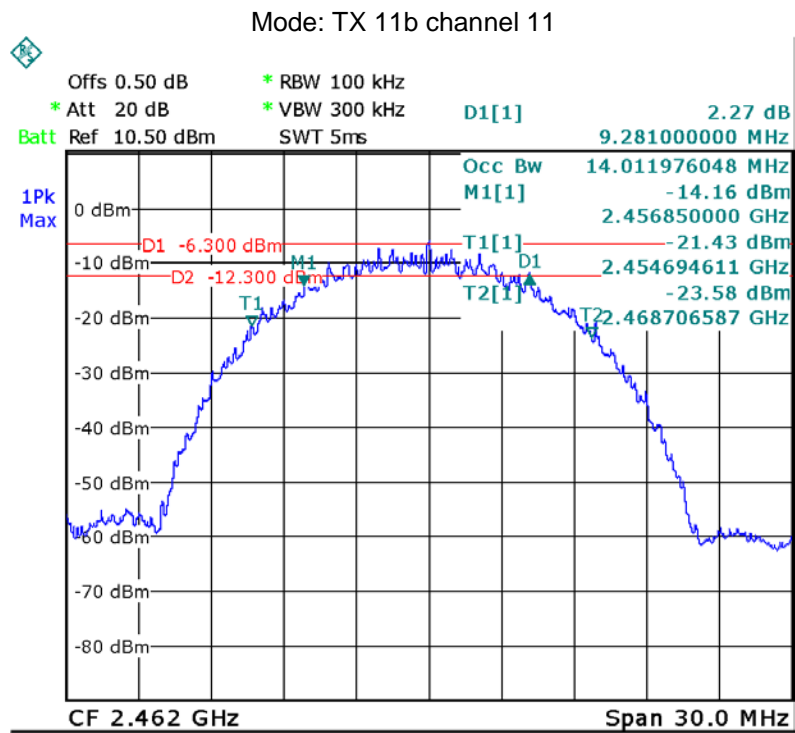
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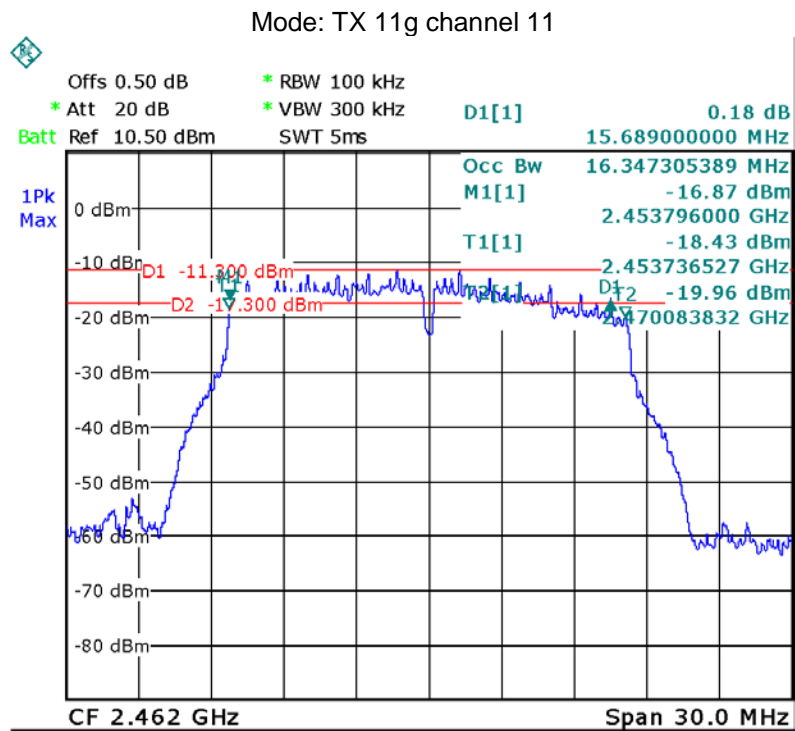
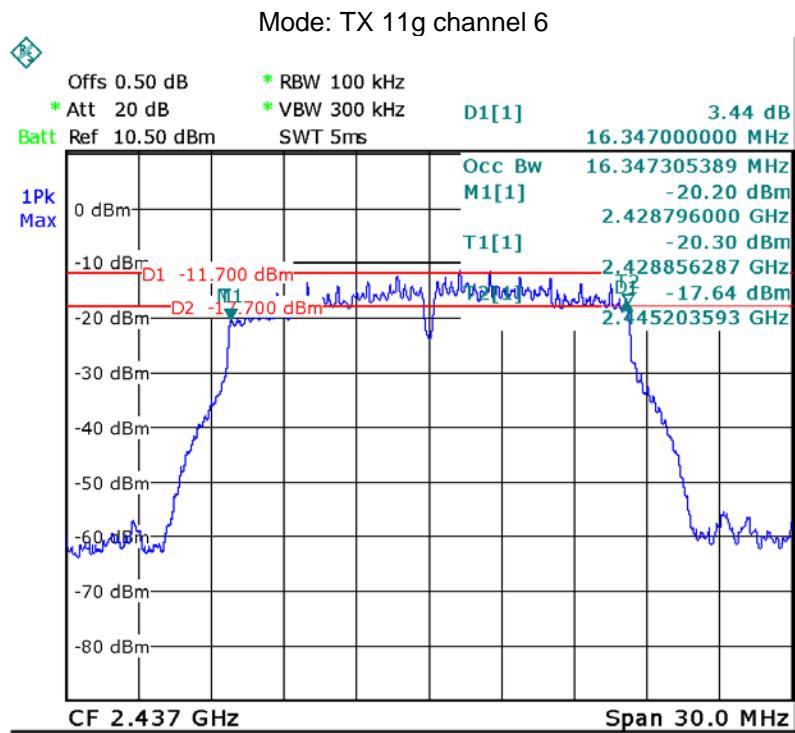
Mode: TX 11b channel 1

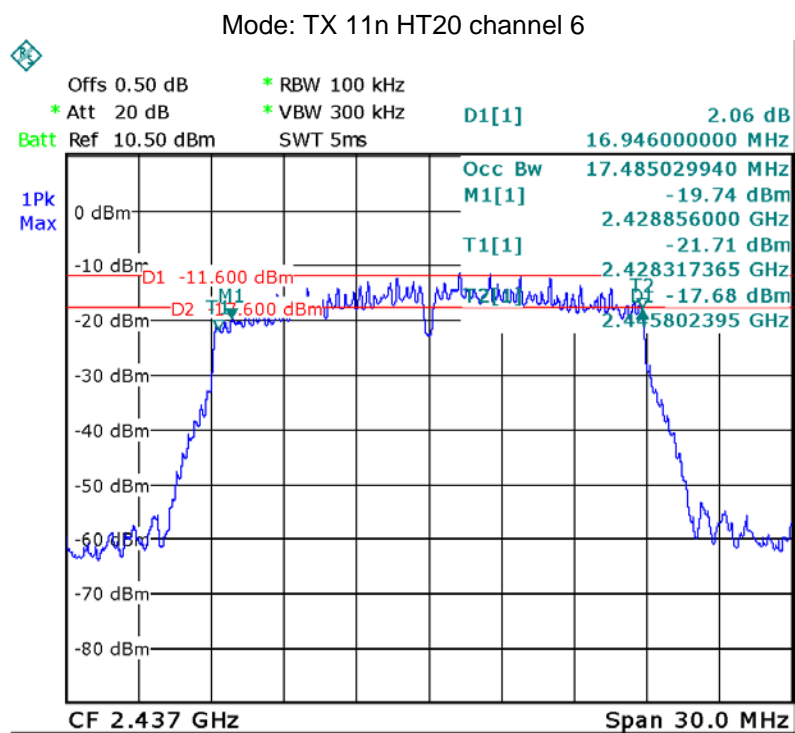
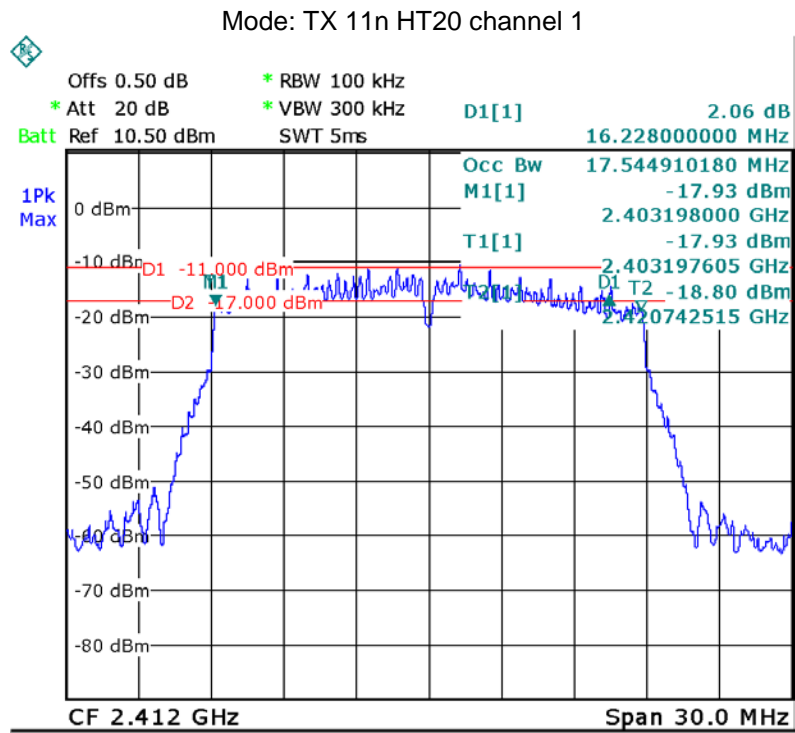


Mode: TX 11b channel 6

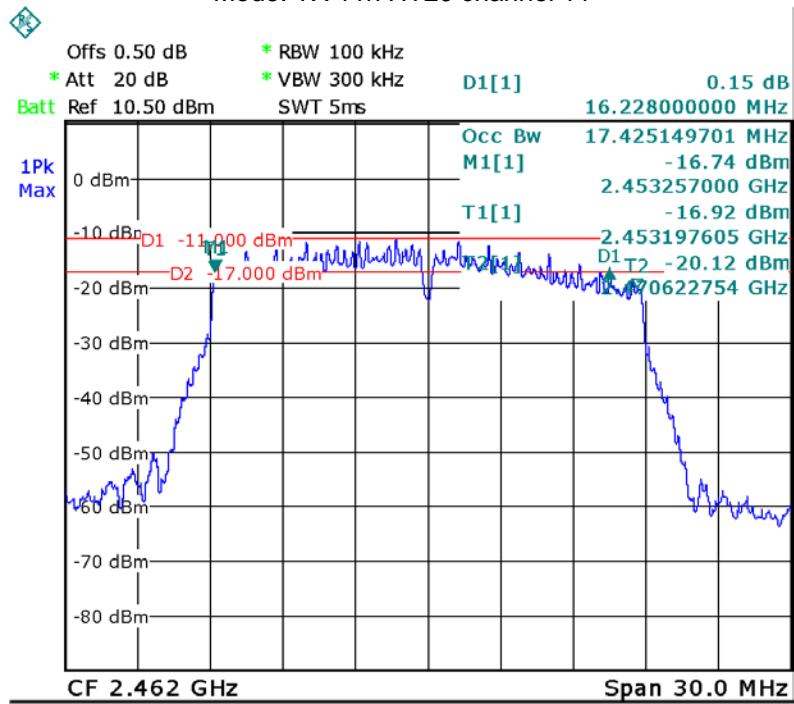




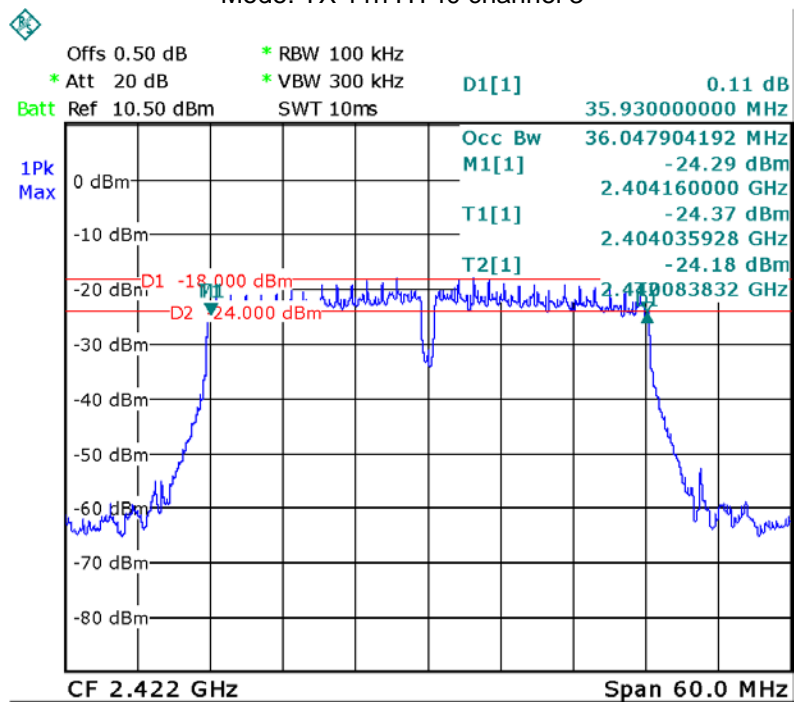


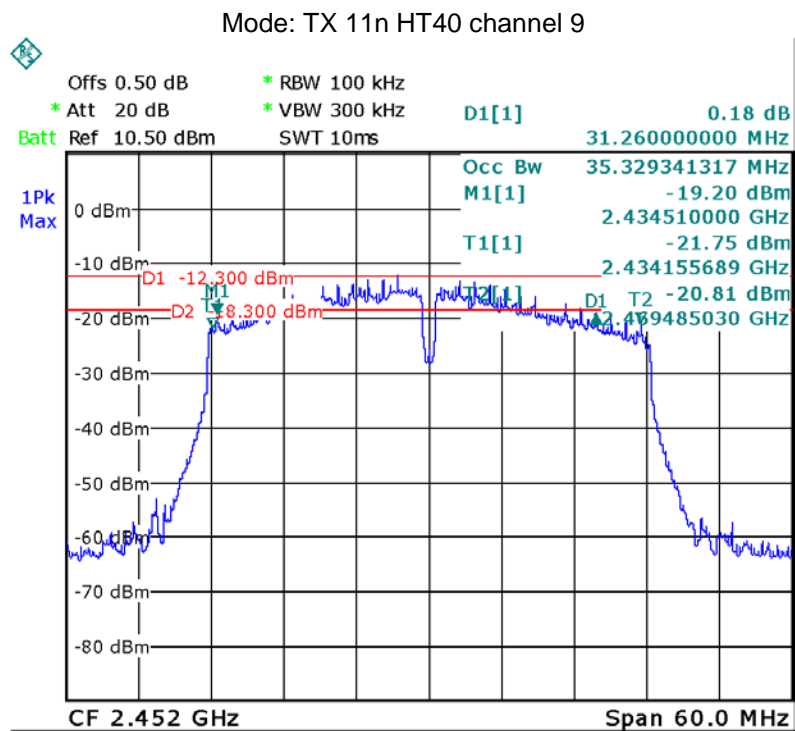
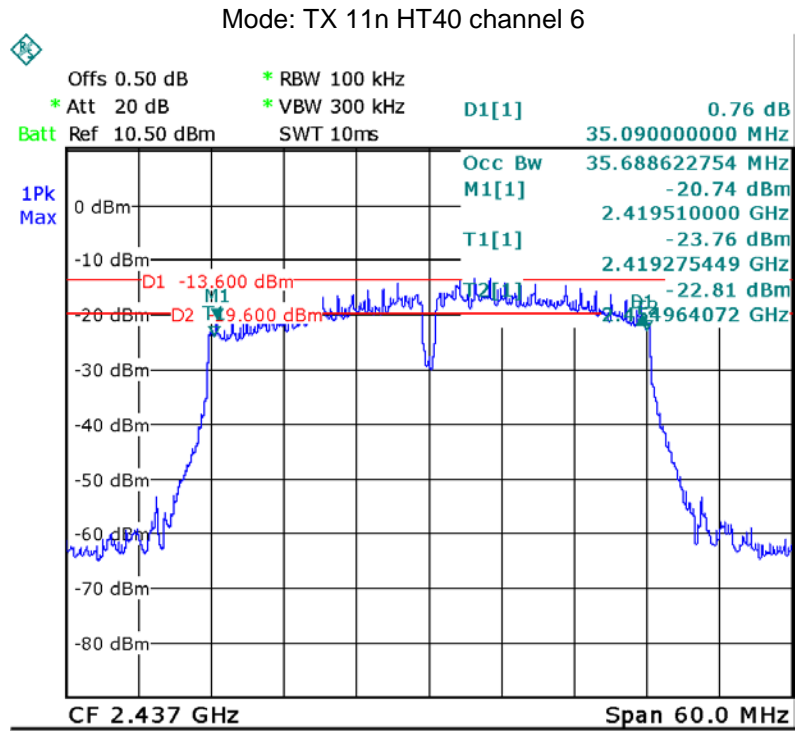


Mode: TX 11n HT20 channel 11



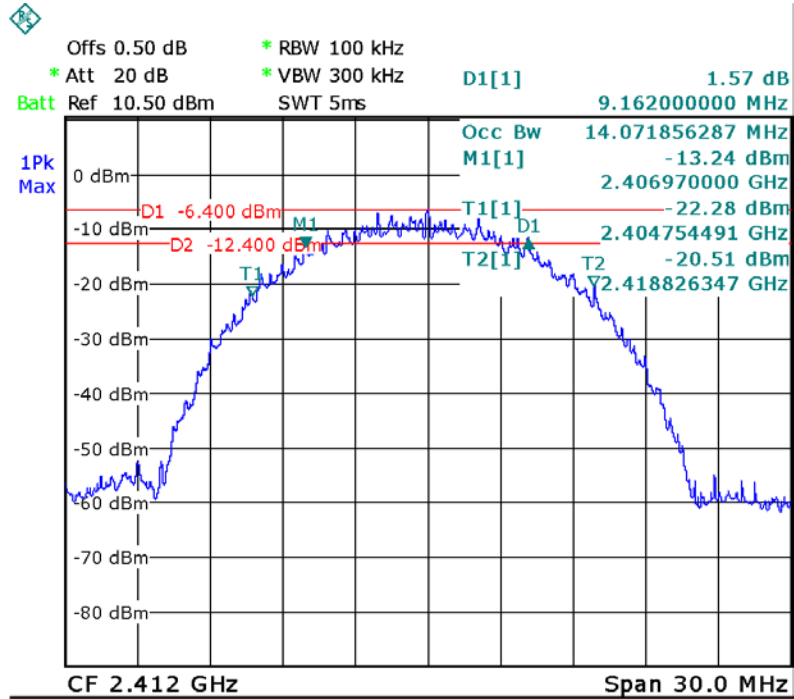
Mode: TX 11n HT40 channel 3



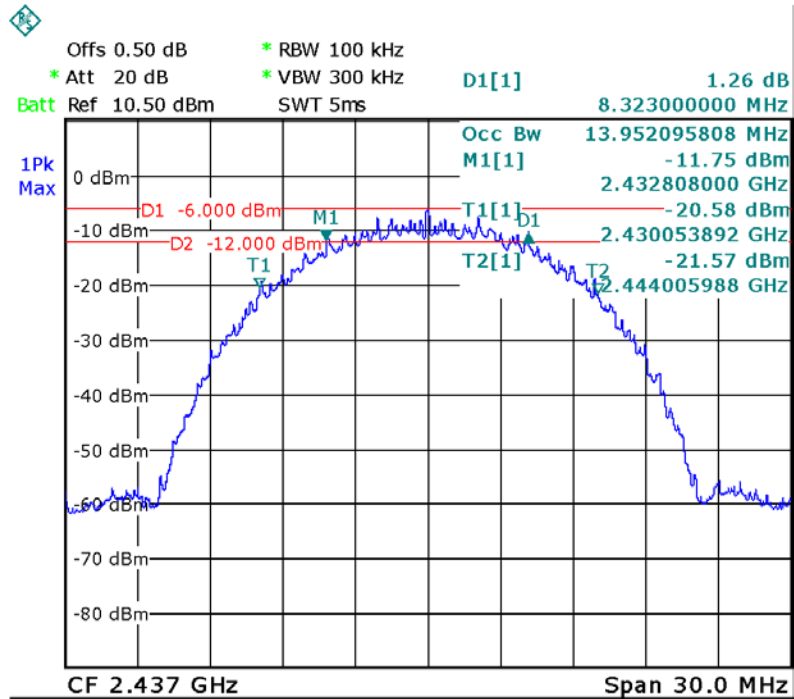


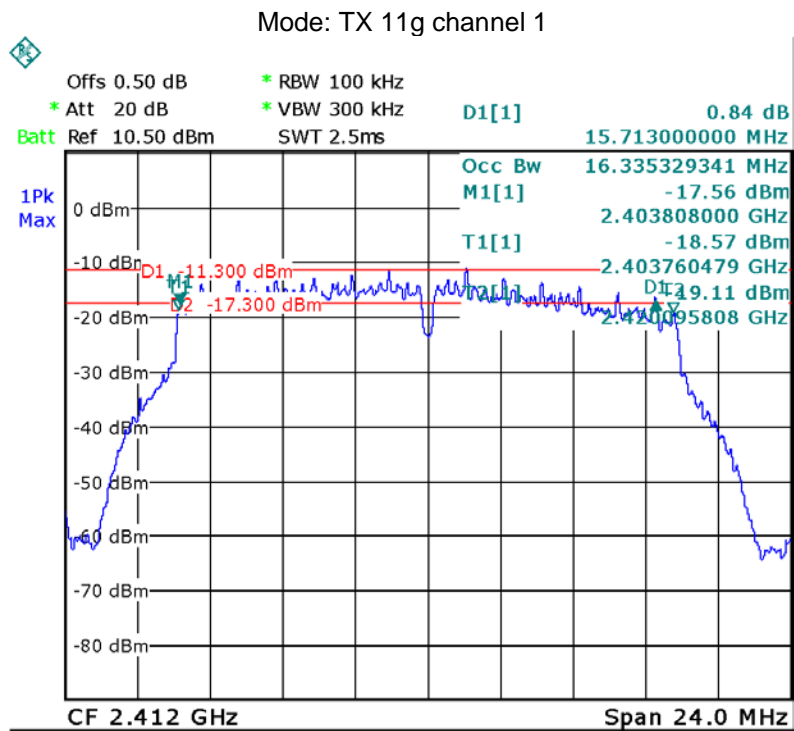
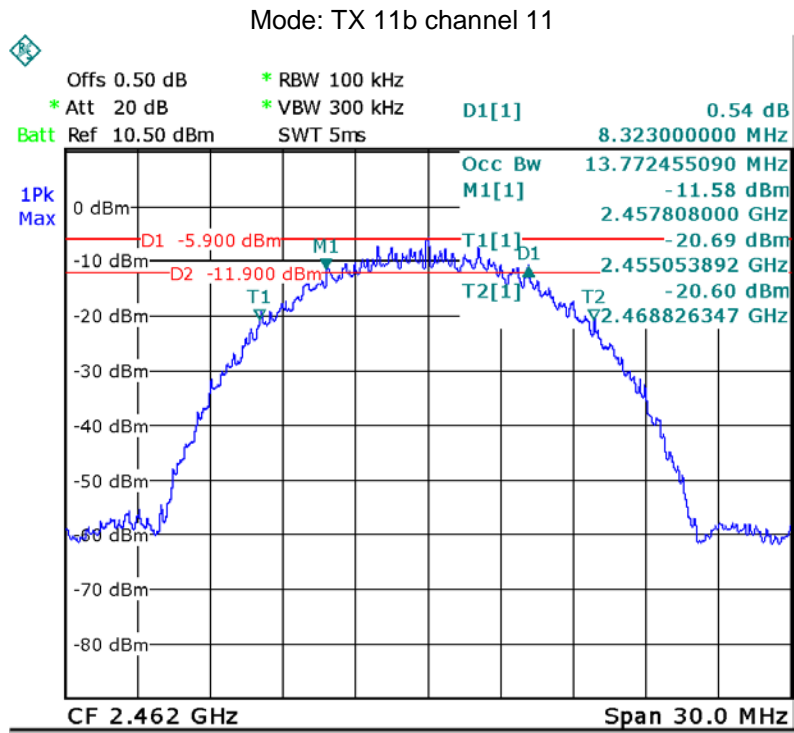
ANT2:

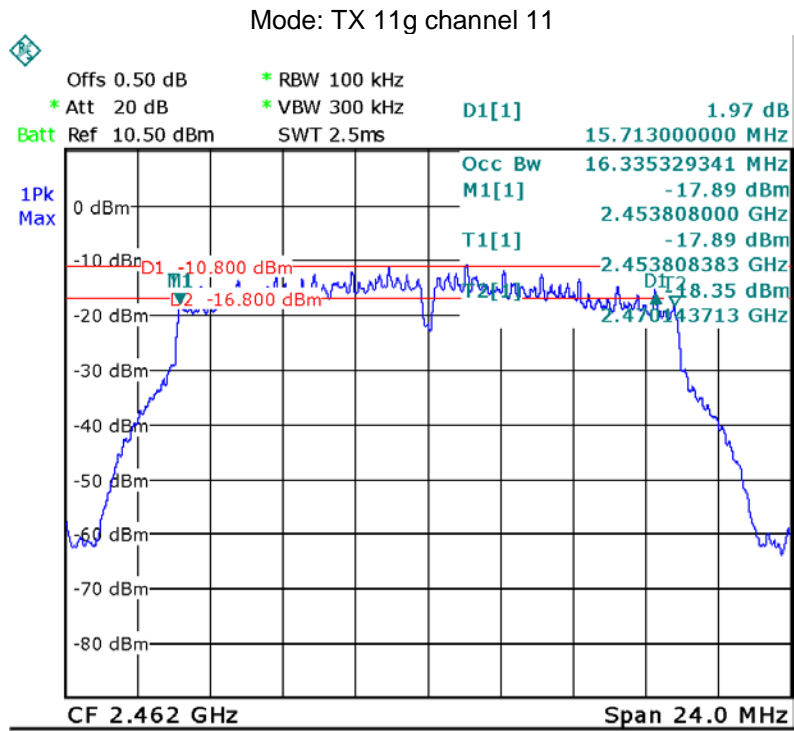
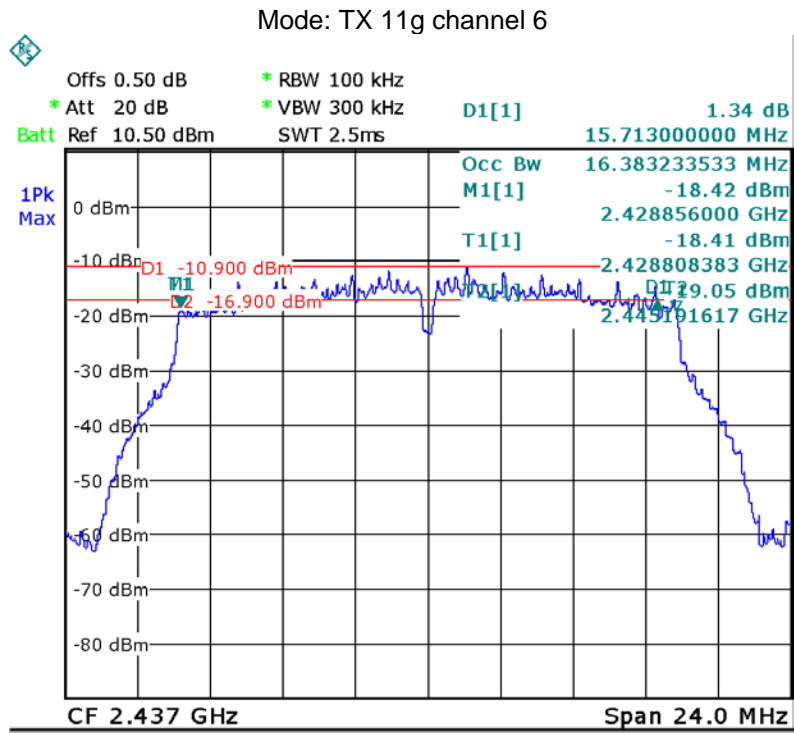
Mode: TX 11b channel 1

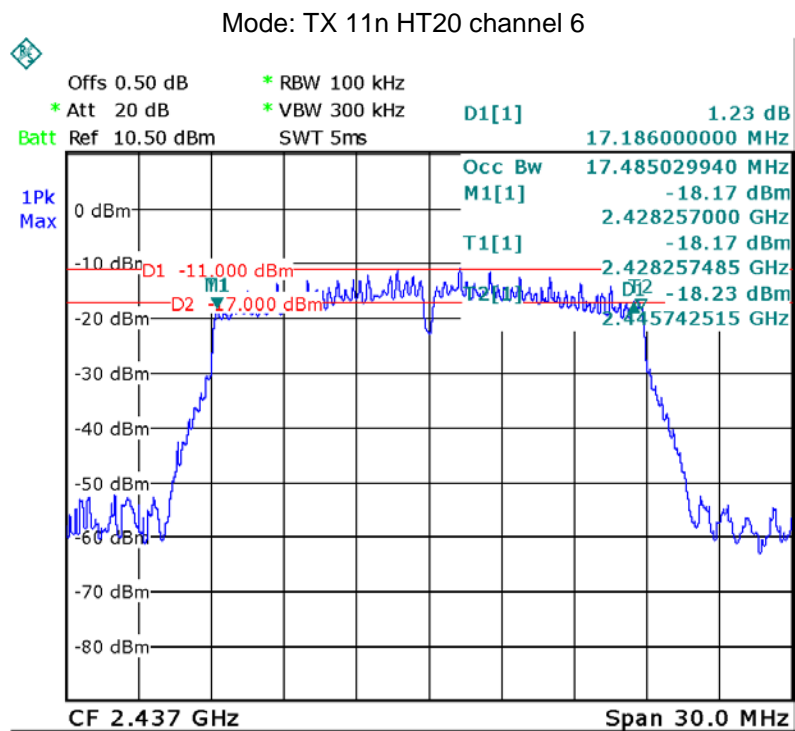
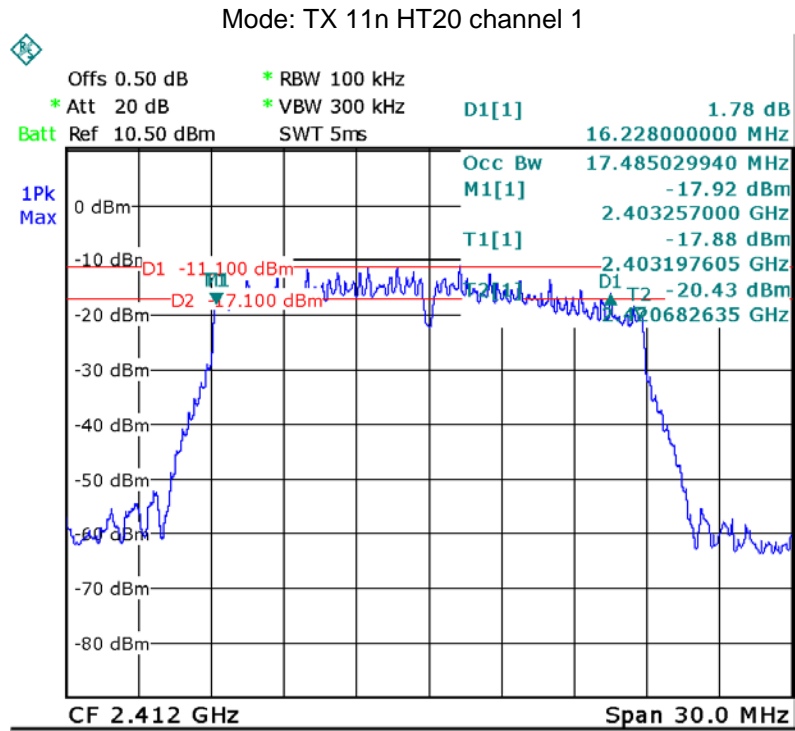


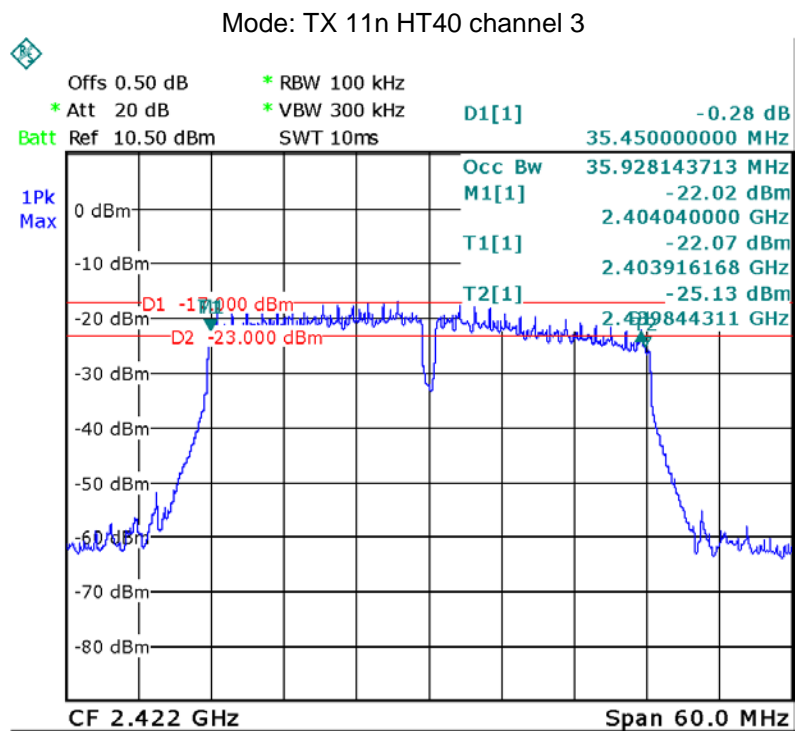
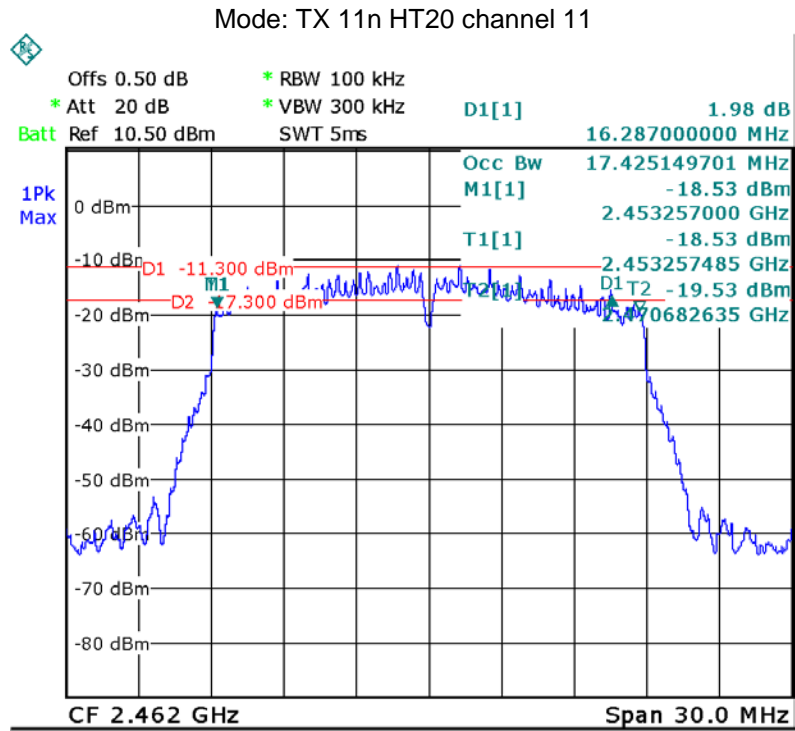
Mode: TX 11b channel 6

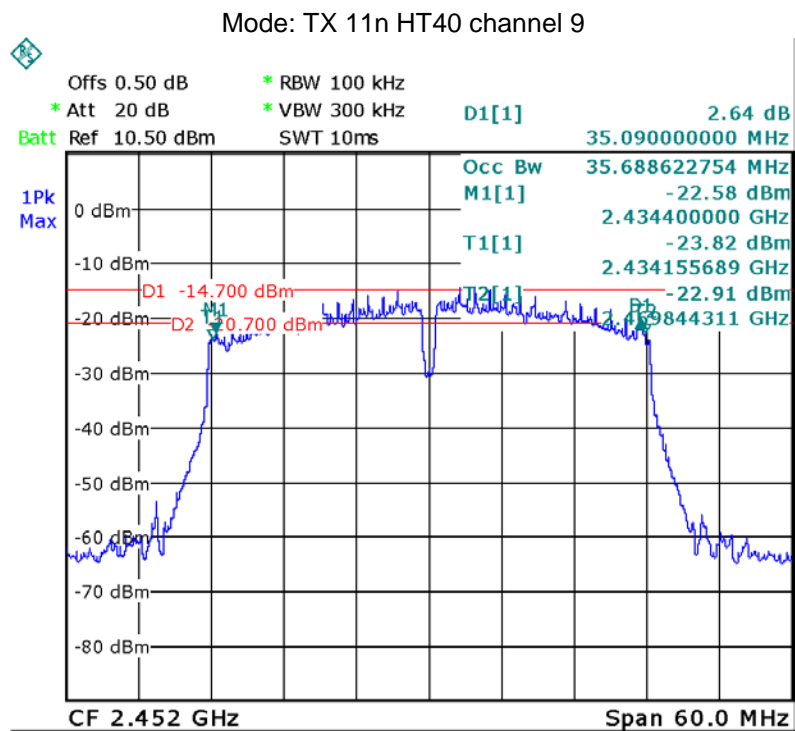
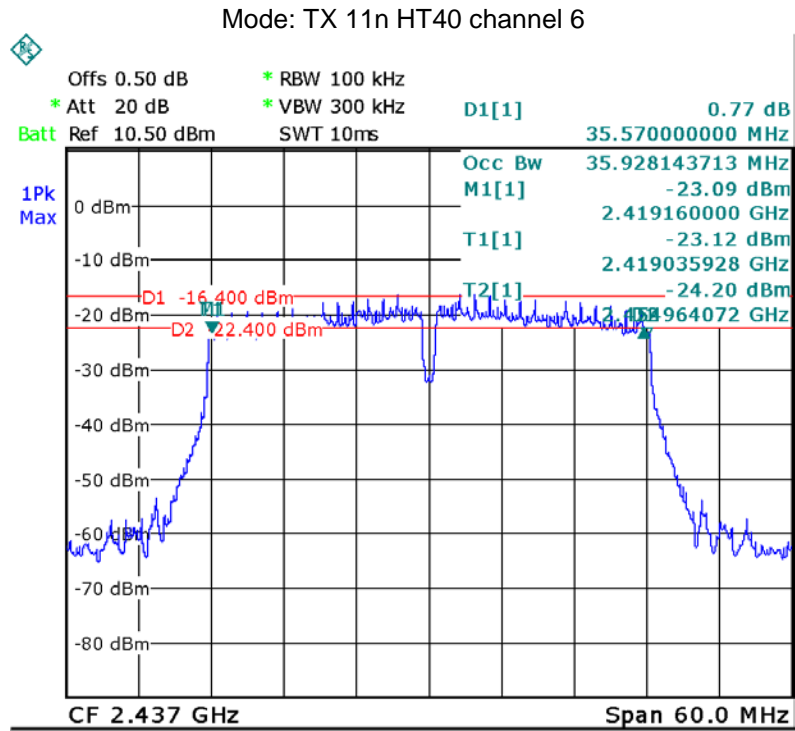












12 Maximum Peak Output Power

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	558074 D01 DTS Meas Guidance V04 662911 D01 Multiple Transmitter Output v02r01

12.1 Test Procedure:

558074 D01 DTS Meas Guidance V04

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.

12.2 Test Result:

ANT1:

Test mode :TX 11b		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.64	9.68	9.64
Limit: 1W/30dBm		

Test mode :TX 11g		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.11	9.12	9.09
Limit: 1W/30dBm		

Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.00	9.08	9.07
Limit: 1W/30dBm		

Test mode : TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.81	9.84	9.87
Limit: 1W/30dBm		

ANT2:

Test mode :TX 11b		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.58	9.58	9.67
Limit: 1W/30dBm		

Test mode :TX 11g		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.03	9.08	9.14
Limit: 1W/30dBm		

Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
9.09	9.03	9.06
Limit: 1W/30dBm		

Test mode : TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
9.82	9.86	9.69
Limit: 1W/30dBm		

ANT1+ANT2:

Test mode :TX 11n HT20		
Maximum Peak Output Power (dBm)		
2412MHz	2437MHz	2462MHz
12.06	12.07	12.08
Limit: 1W/30dBm		

Test mode : TX 11n HT40		
Maximum Peak Output Power (dBm)		
2422MHz	2437MHz	2452MHz
12.83	12.86	12.79
Limit: 1W/30dBm		

13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247
 Test Method: 558074 D01 DTS Meas Guidance V04
 662911 D01 Multiple Transmitter Output v02r01

13.1 Test Procedure:

558074 D01 DTS Meas Guidance V04

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.

13.2 Test Result:

ANT1:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-21.71	-21.85	-22.60
Limit: 8dBm per 3kHz		

Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-27.97	-29.81	-28.59
Limit: 8dBm per 3kHz		

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-28.34	-28.95	-27.83
Limit: 8dBm per 3kHz		

Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-36.53	-32.51	-30.95
Limit: 8dBm per 3kHz		

ANT2:

Test mode :TX 11b		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-22.14	-18.22	-22.25
Limit: 8dBm per 3kHz		

Test mode :TX 11g		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-29.46	-27.84	-28.70
Limit: 8dBm per 3kHz		

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-28.13	-27.58	-26.39
Limit: 8dBm per 3kHz		

Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-32.93	-34.17	-31.86
Limit: 8dBm per 3kHz		

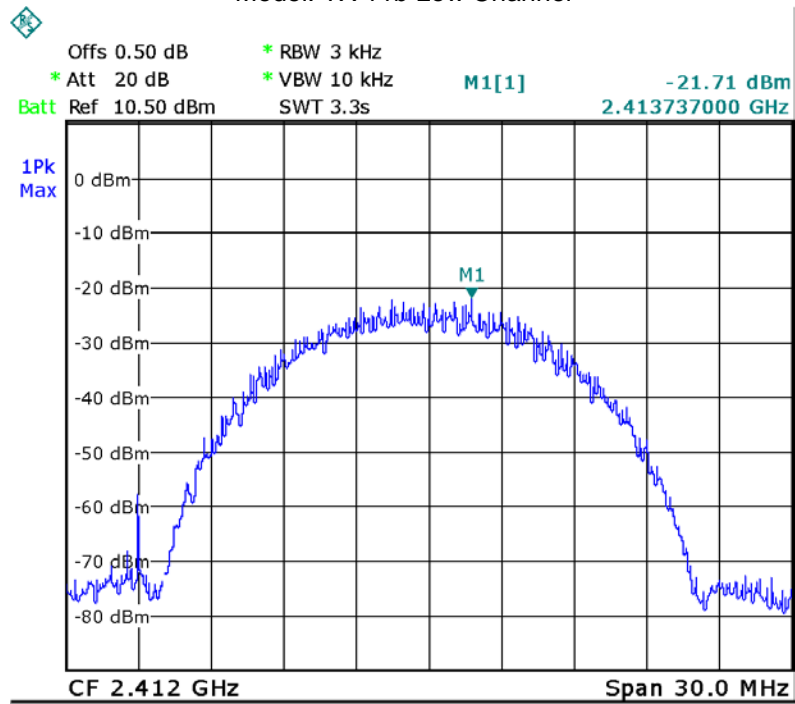
ANT1+ANT2:

Test mode :TX 11n HT20		
Power Spectral (dBm per 3kHz)		
2412MHz	2437MHz	2462MHz
-25.22	-25.20	-24.04
Limit: 8dBm per 3kHz		

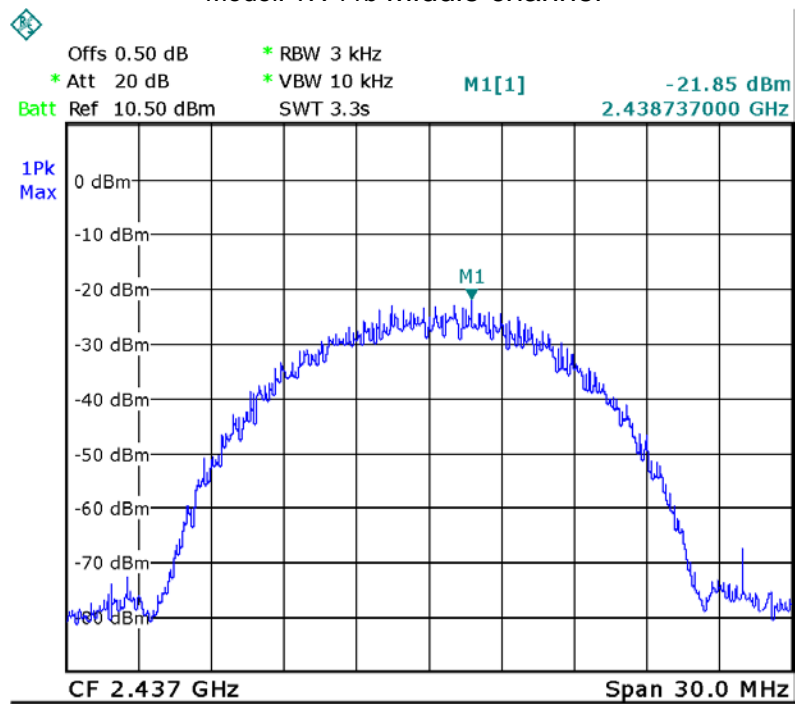
Test mode : TX 11n HT40		
Power Spectral (dBm per 3kHz)		
2422MHz	2437MHz	2452MHz
-31.36	-30.25	-28.37
Limit: 8dBm per 3kHz		

ANT1:

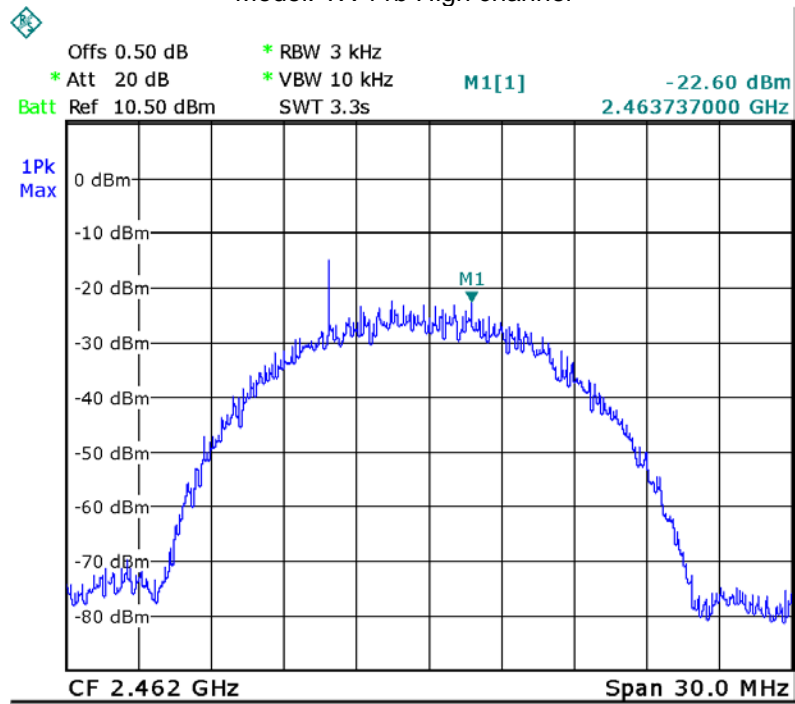
Model: TX 11b Low Channel



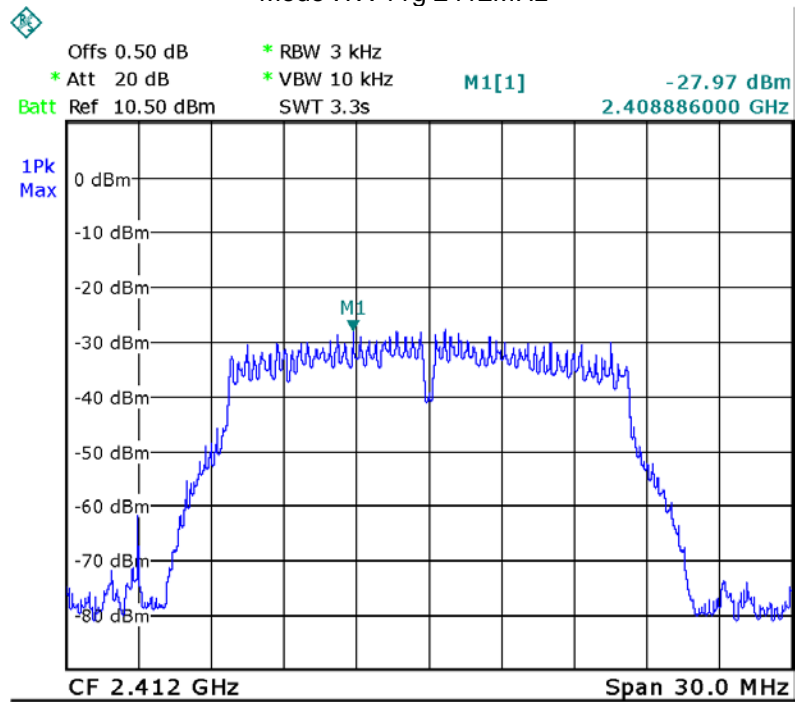
Model: TX 11b Middle channel

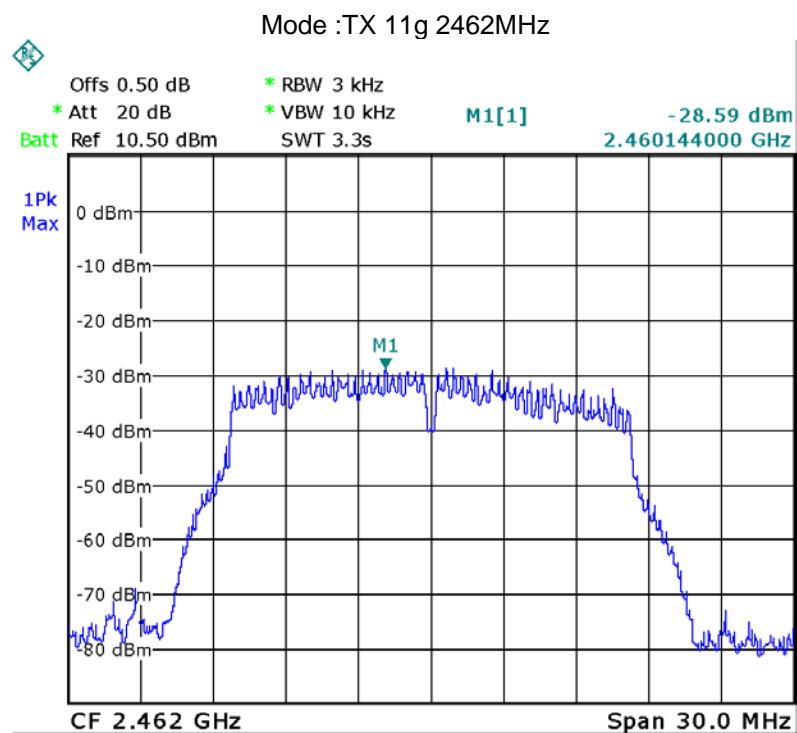
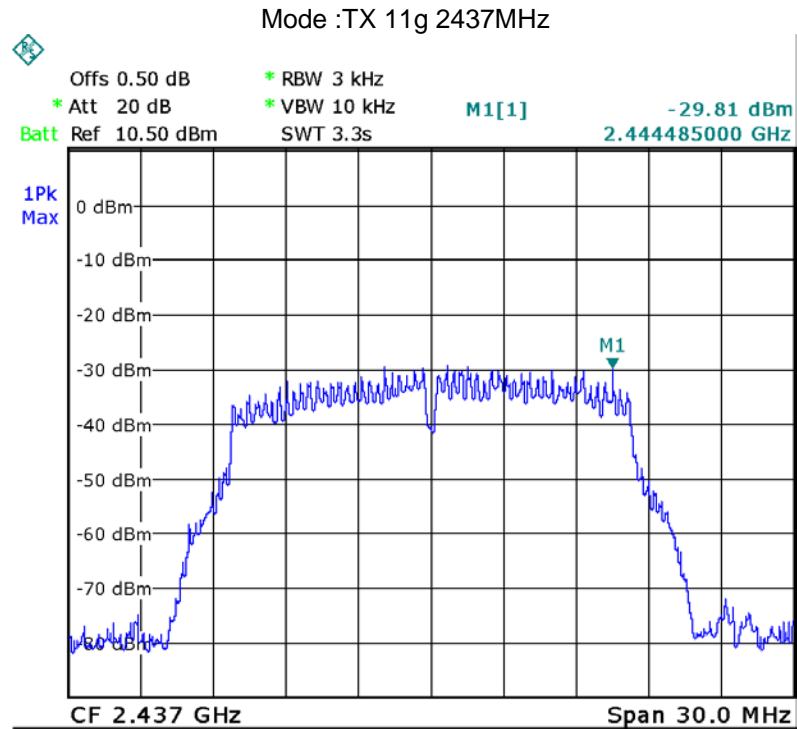


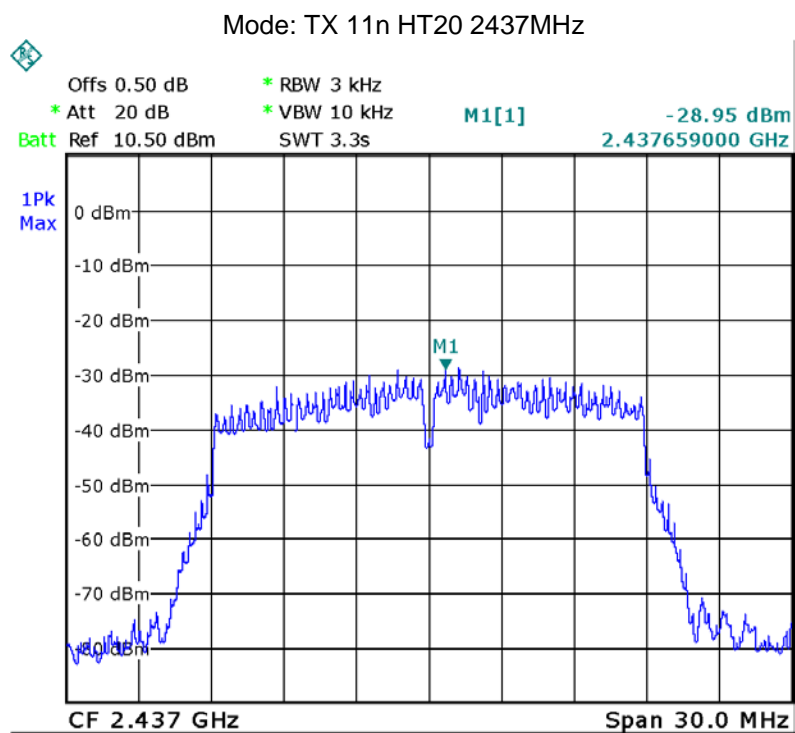
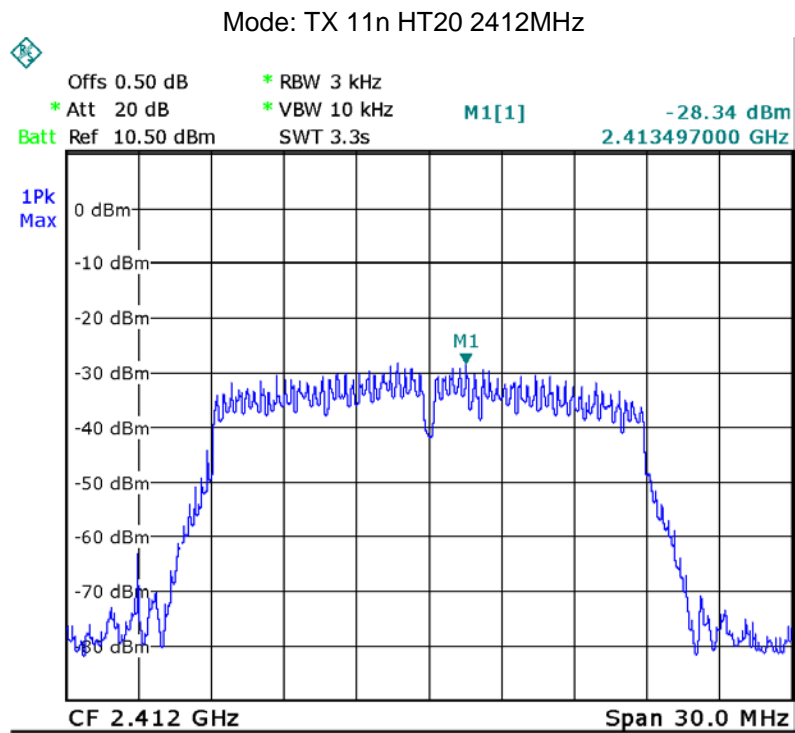
Model: TX 11b High channel

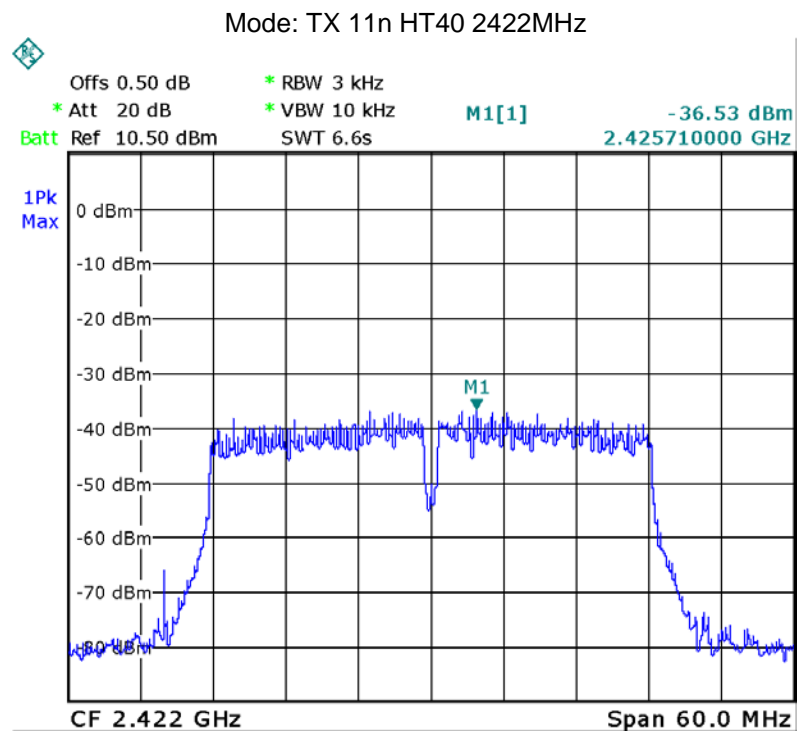
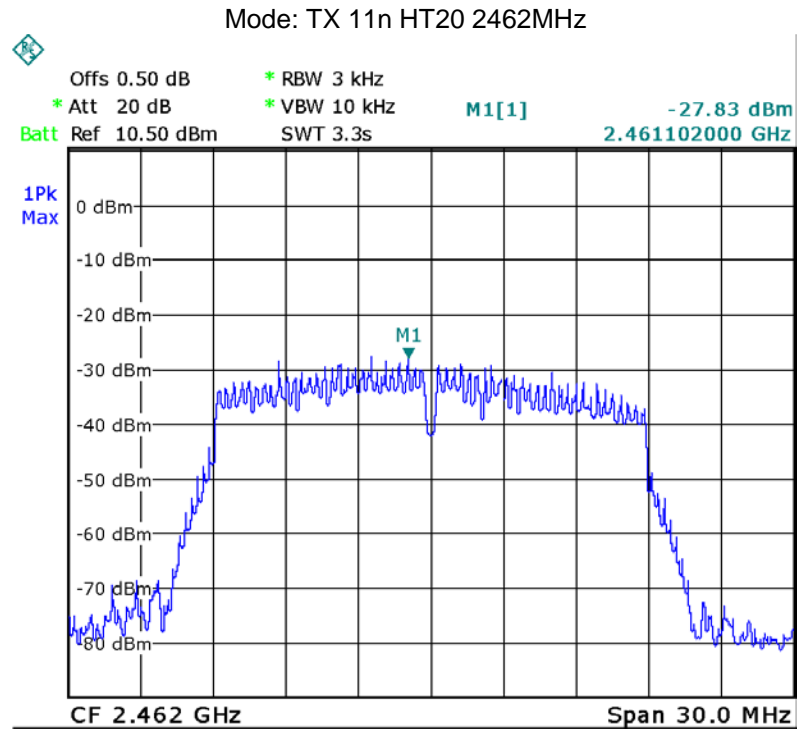


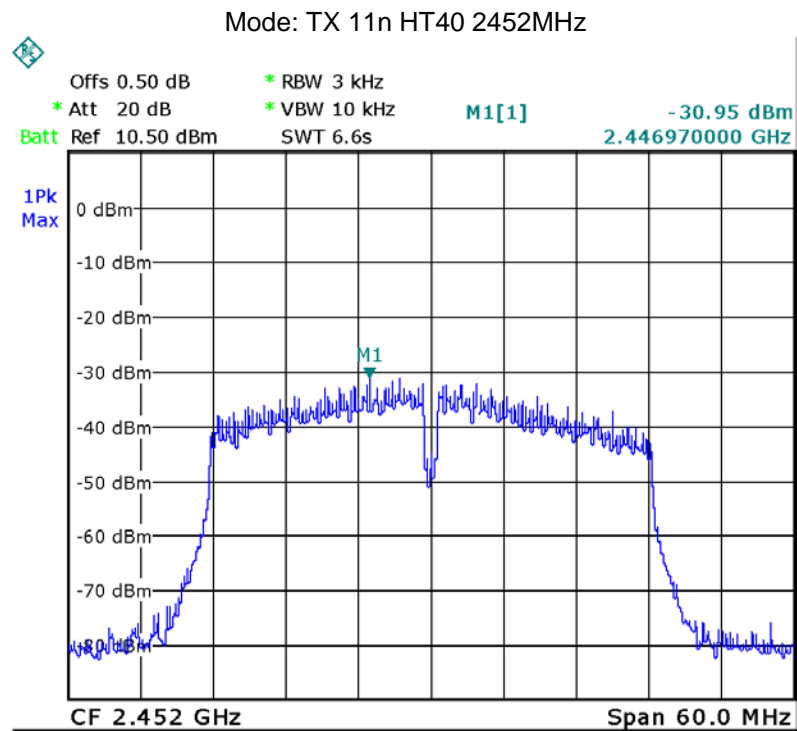
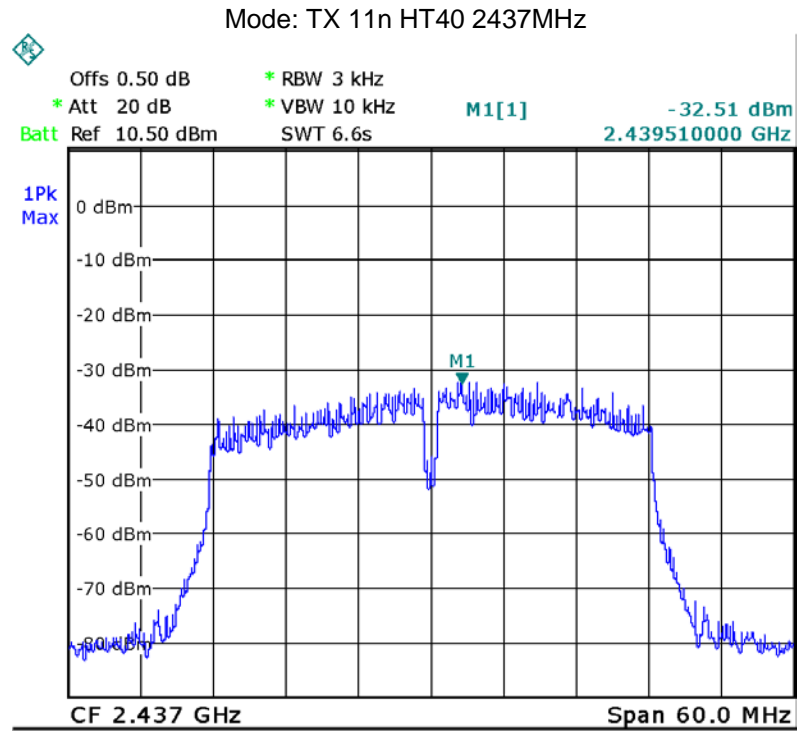
Mode :TX 11g 2412MHz





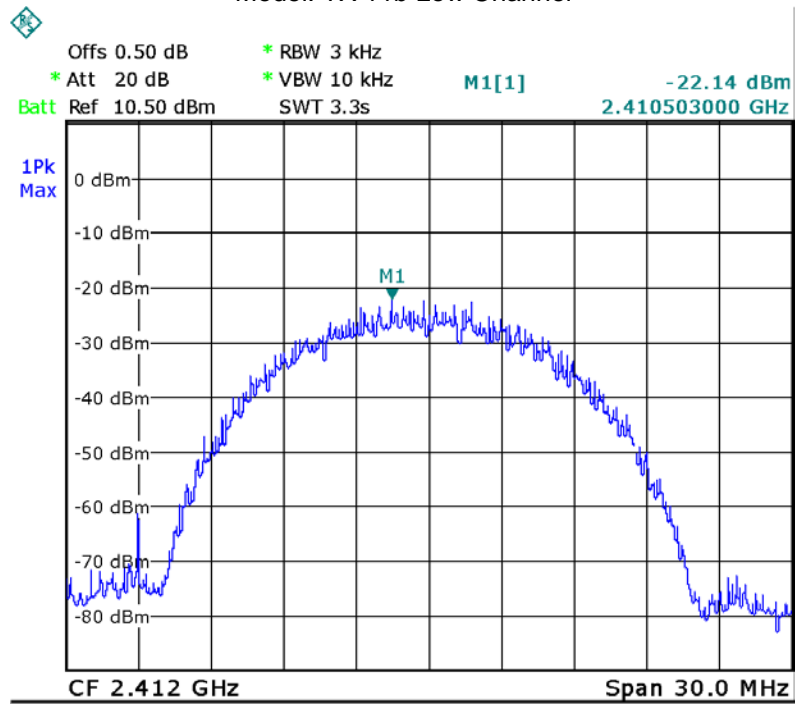




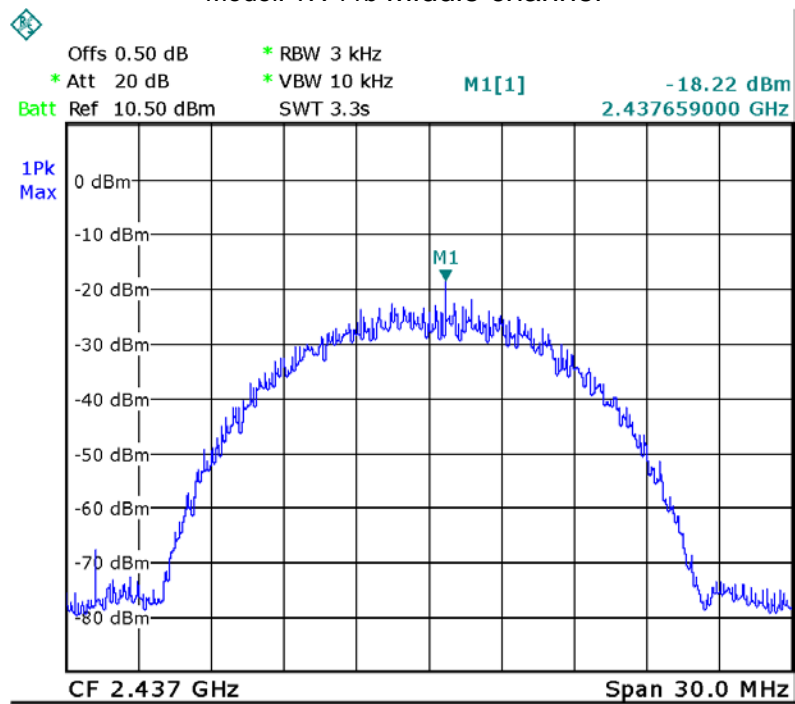


ANT2:

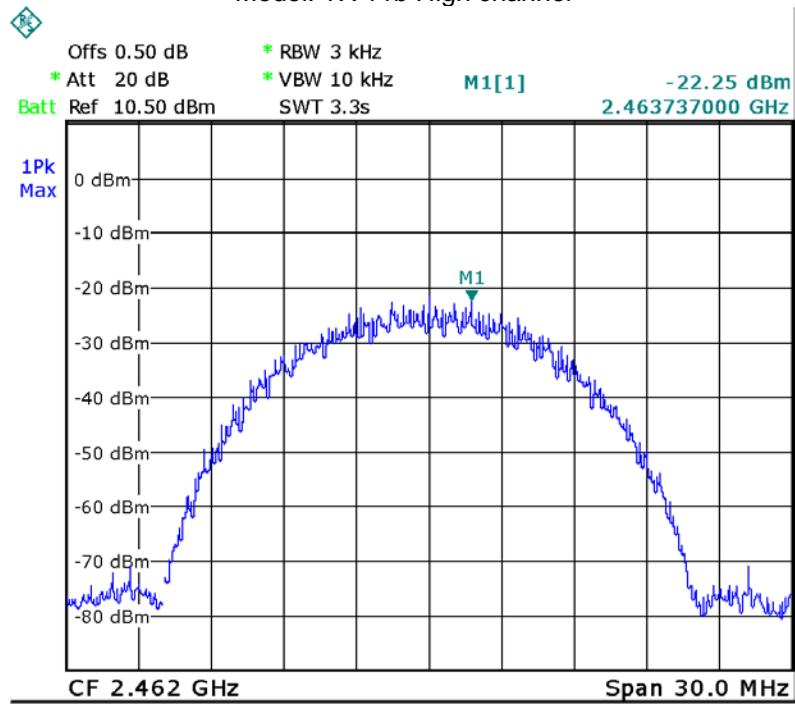
Model: TX 11b Low Channel



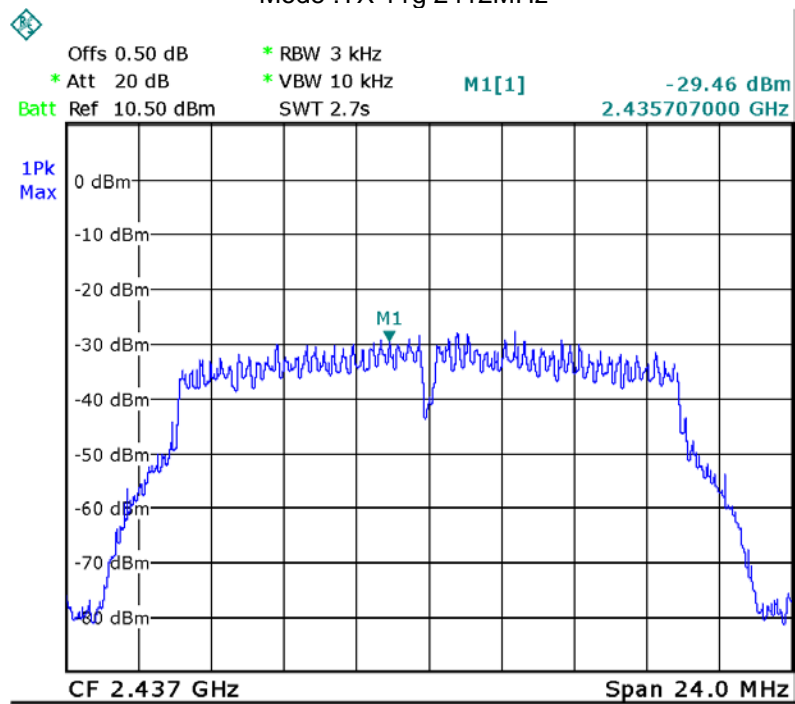
Model: TX 11b Middle channel

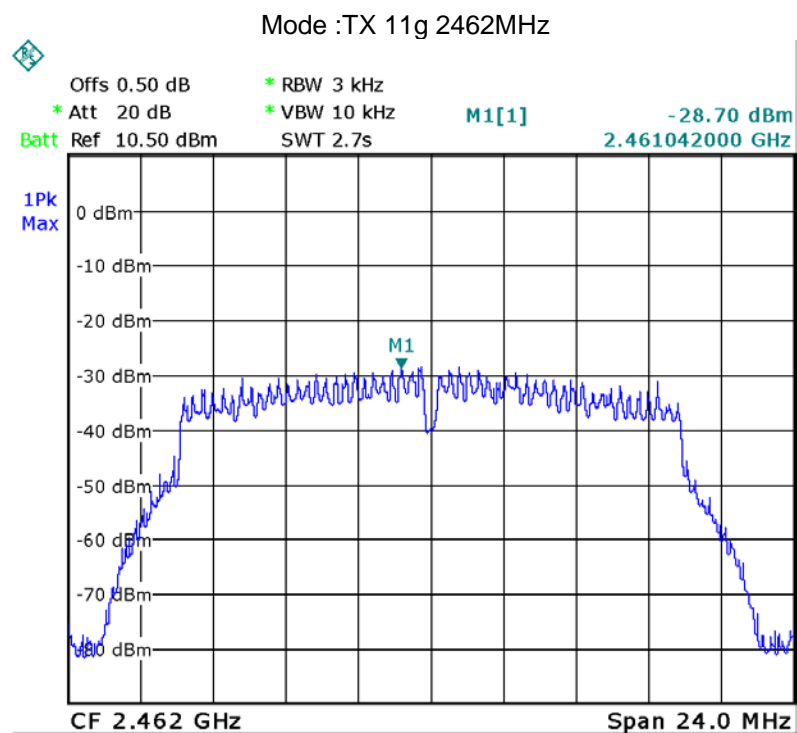
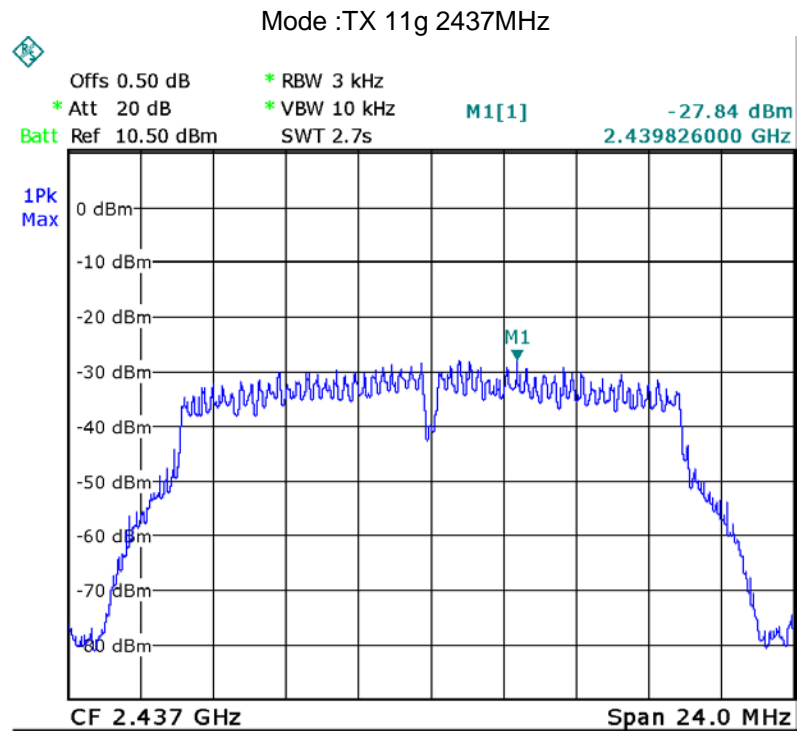


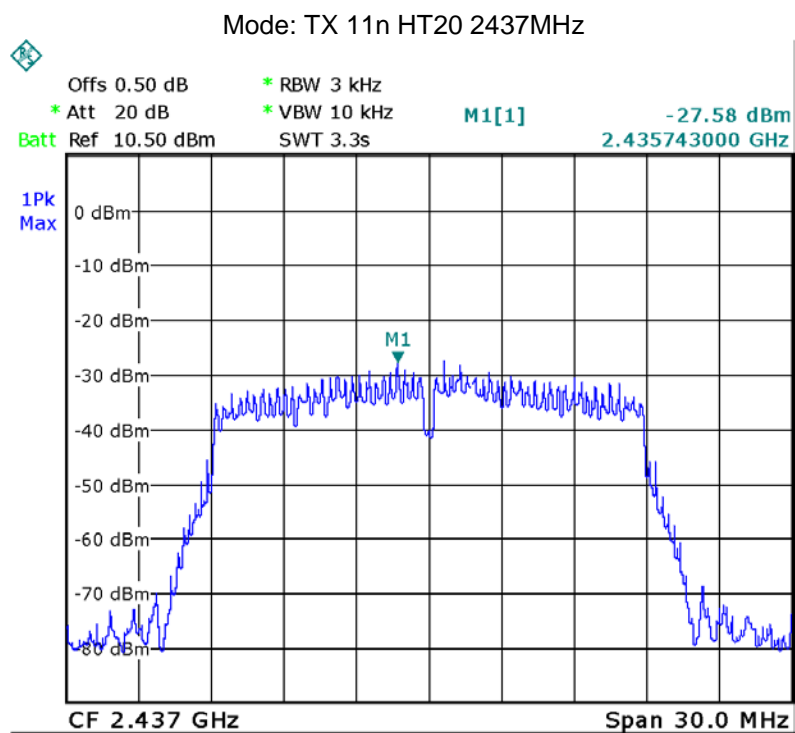
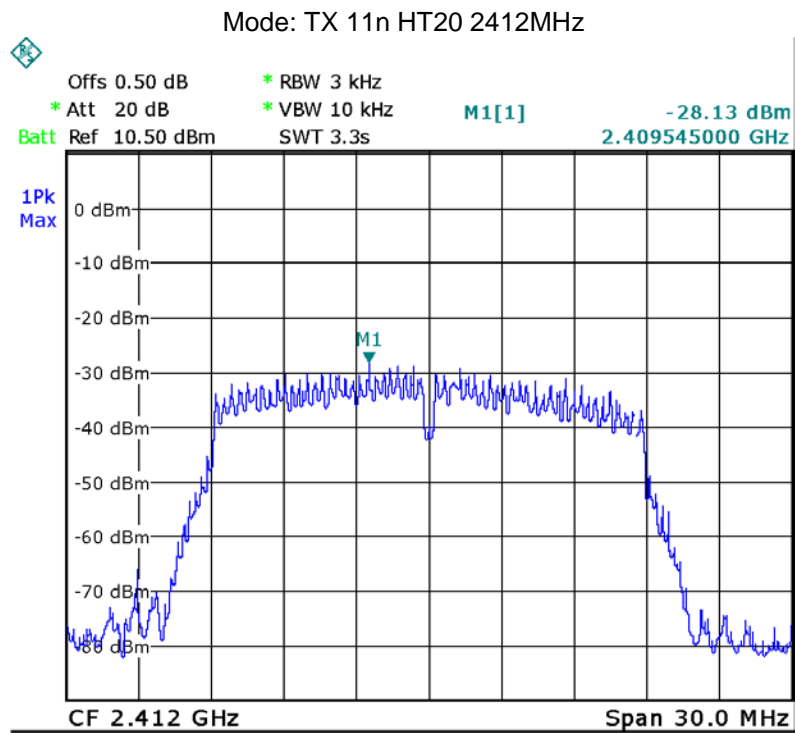
Model: TX 11b High channel

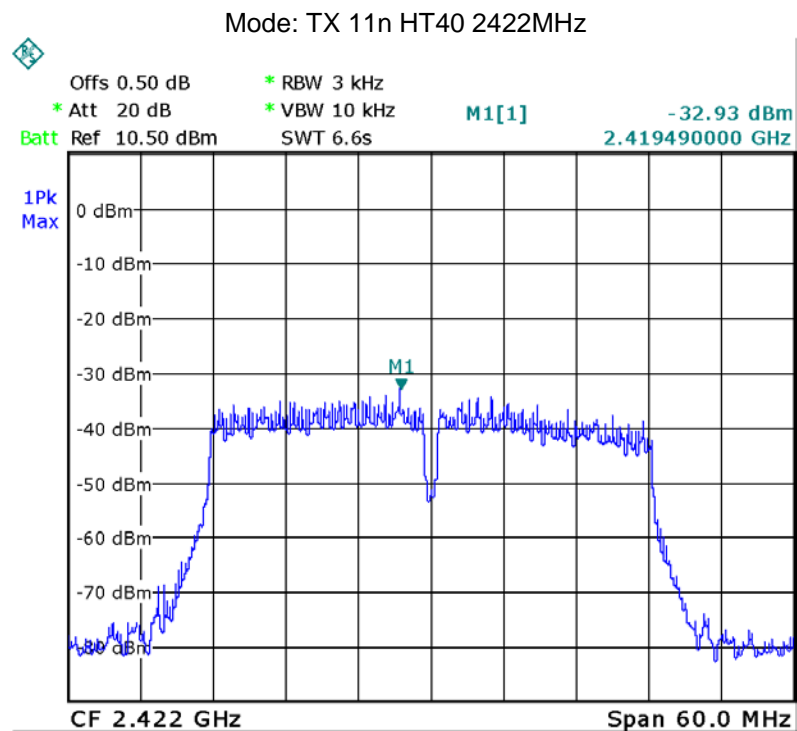
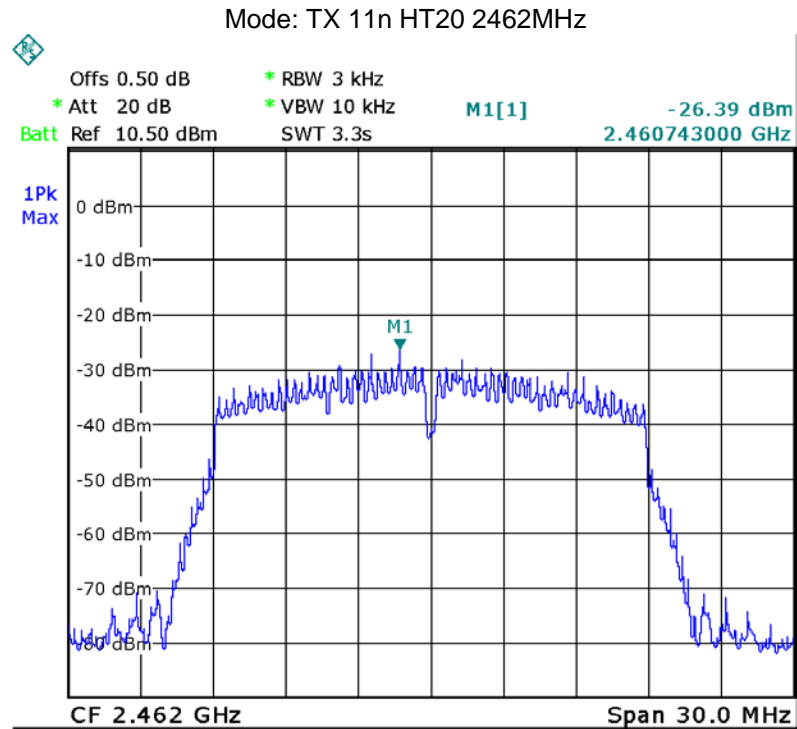


Mode :TX 11g 2412MHz

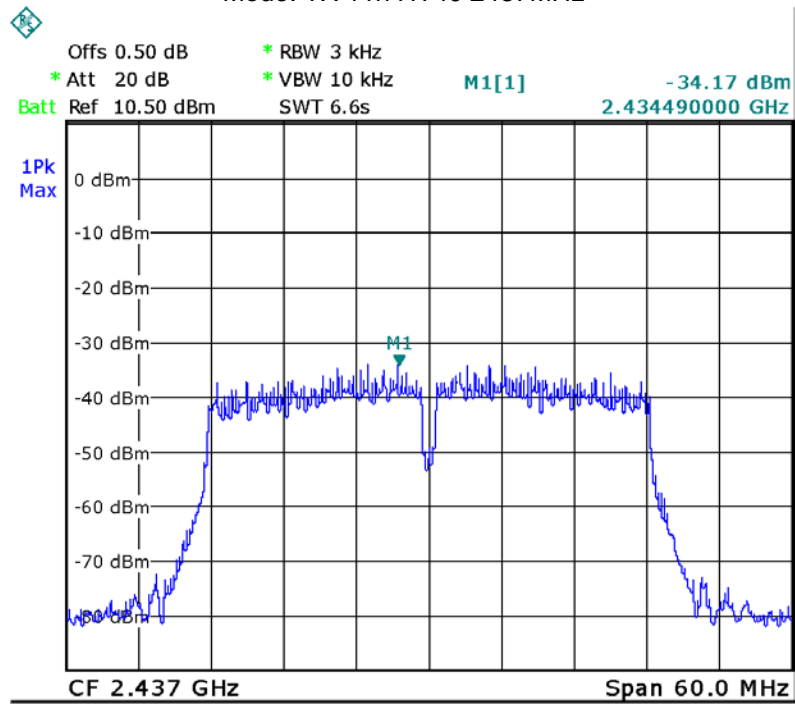




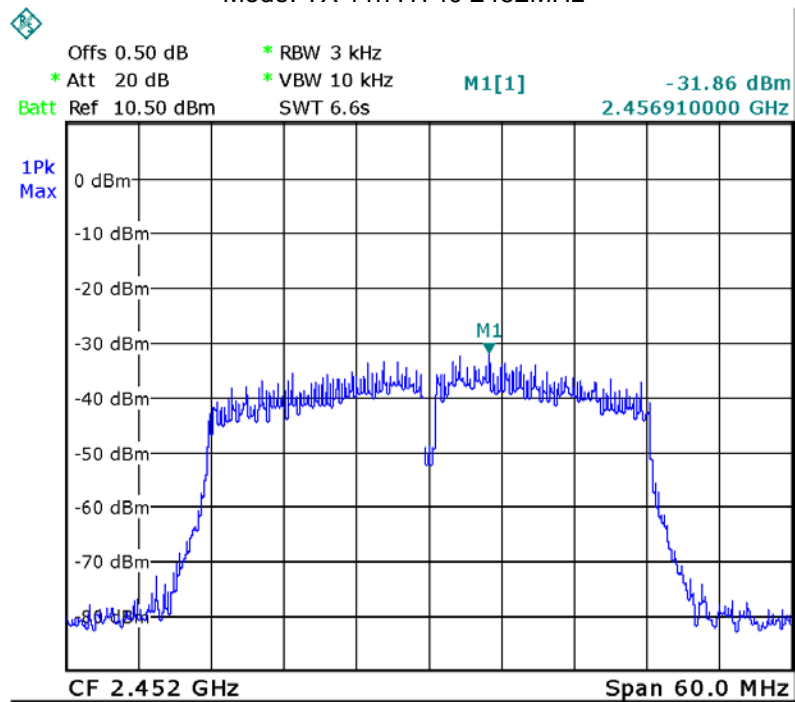




Mode: TX 11n HT40 2437MHz



Mode: TX 11n HT40 2452MHz



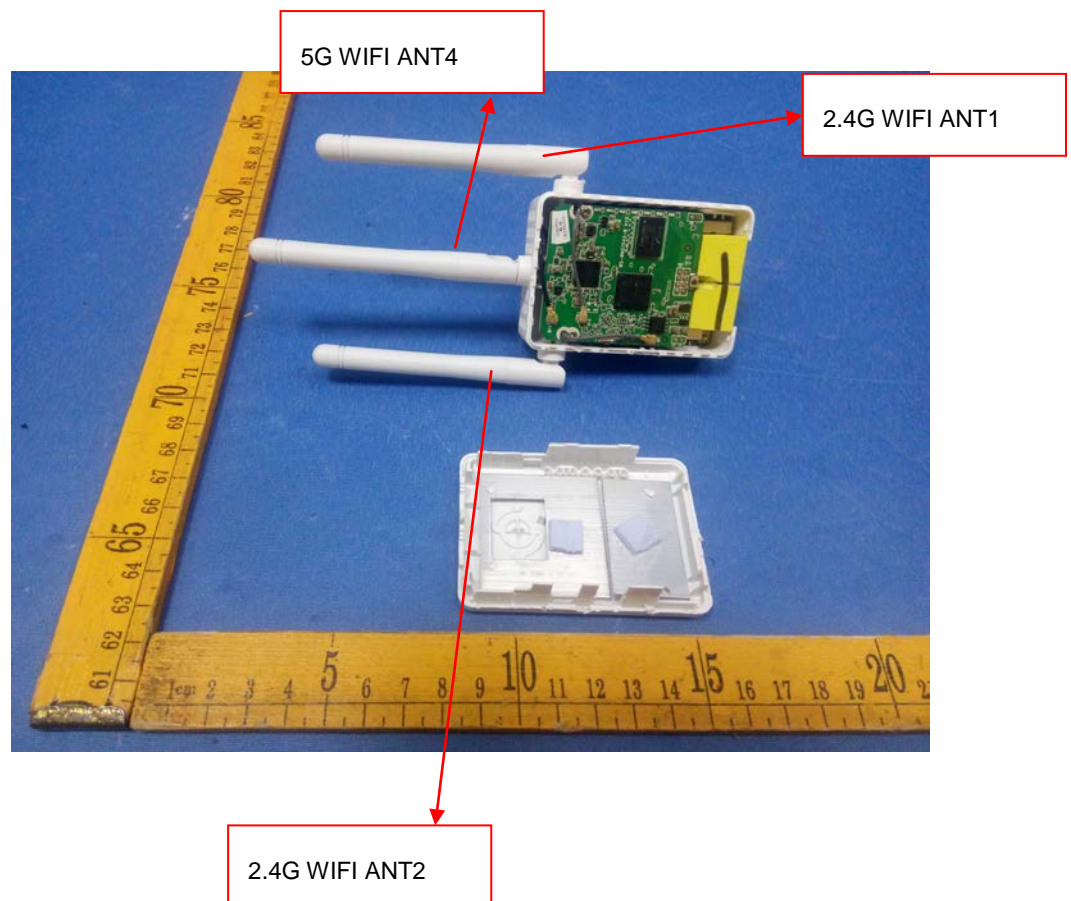
14 Antenna Requirement

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 have three Dipole Antenna, meets the requirements of FCC 15.203.



15 SAR Evaluation

Please refer to SAR report.

16 Photographs of test setup and EUT.

Refer to the file WS-WN575A2_Ext Photos, WS-WN575A2_Int Photos and WS-WN575A2_Tsup Photos.

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