

TEST REPORT

Reference No...... : WTF19S12088767W001
FCC ID : V5PQ25LWT
Applicant..... : PAX Technology Limited
Address..... : Room 2416, 24/F., Sun Hung Kai Centre, 30 Harbour, Hong Kong
Manufacturer : PAX Computer Technology (Shenzhen) Co., Ltd.
Address..... : 4/F, No.3 Building, Software Park, Second Central Science-Tech Road, High-Tech industrial Park, Shenzhen, Guangdong, P.R.C.
Product..... : POS Terminal
Model(s) : Q25
Brand Name..... : PAX
Standards..... : FCC CFR47 Part 15.247:2018
Date of Receipt sample : 2019-12-20
Date of Test : 2019-12-21 to 2020-01-06
Date of Issue..... : 2020-01-07
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 REVISION HISTORY	4
4 GENERAL INFORMATION.....	5
4.1 GENERAL DESCRIPTION OF E.U.T.	5
4.2 DETAILS OF E.U.T.	5
4.3 CHANNEL LIST.....	6
4.4 TEST MODE	7
4.5 TEST FACILITY.....	8
5 TEST SUMMARY	9
6 EQUIPMENT USED DURING TEST	10
6.1 EQUIPMENTS LIST	10
6.2 DESCRIPTION OF SUPPORT UNITS	11
6.3 MEASUREMENT UNCERTAINTY	11
6.4 TEST EQUIPMENT CALIBRATION	11
7 CONDUCTED EMISSION	12
7.1 E.U.T. OPERATION	12
7.2 EUT SETUP.....	12
7.3 MEASUREMENT DESCRIPTION	12
7.4 CONDUCTED EMISSION TEST RESULT	13
8 RADIATED EMISSIONS.....	15
8.1 EUT OPERATION.....	15
8.2 TEST SETUP	16
8.3 SPECTRUM ANALYZER SETUP	17
8.4 TEST PROCEDURE	18
8.5 CORRECTED AMPLITUDE & MARGIN CALCULATION	18
8.6 SUMMARY OF TEST RESULTS	19
9 CONDUCTED SPURIOUS EMISSIONS.....	32
9.1 TEST PROCEDURE	32
9.2 TEST RESULT	33
10 BAND EDGE MEASUREMENT	46
10.1 TEST PROCEDURE.....	46
10.2 TEST RESULT	47
11 6 DB BANDWIDTH AND 99% BANDWIDTH MEASUREMENT	51
11.1 TEST PROCEDURE:.....	51
11.2 TEST RESULT:	51
12 MAXIMUM PEAK CONDUCTED OUTPUT POWER.....	64
12.1 TEST PROCEDURE:.....	64
12.2 TEST RESULT:	65
13 DUTY CYCLE.....	72
14 POWER SPECTRAL DENSITY	73
14.1 TEST PROCEDURE:.....	73
14.2 TEST RESULT:	73
15 ANTENNA REQUIREMENT	80

16 RF EXPOSURE..... 81

17 PHOTOGRAPHS OF TEST SETUP AND EUT..... 82

3 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTF19S12088 767W001	2019-12-20	2019-12-21 to 2020-01-06	2020-01-07	original	-	Valid

4 General Information

4.1 General Description of E.U.T.

Product:	POS Terminal
Model(s):	Q25
Model Description:	N/A
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40 5G-802.11a/ n(HT20/40)/ac(HT20/40/80)
NFC:	Support
Hardware Version:	Q25-0UA-R75-0xLx
Software Version:	15.00.xx xxxx
Highest frequency (Exclude Radio):	1.25GHz
Storage Location:	Internal Storage
Note:	N/A

4.2 Details of E.U.T.

Operation Frequency:	WiFi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz
Max. RF output power:	WiFi(2.4G): 20.67dBm
Type of Modulation:	WiFi: CCK, OFDM
Antenna installation:	WiFi: internal permanent antenna
Antenna Gain:	WiFi(2.4G): 0.6dBi
Ratings:	DC 5V, 1.0A, charging from adapter (Adapter Input: 100-240V~50/60Hz 0.4A)
Adapter:	Manufacturer: Shenzhen Sorghum red Electronics Technology Co., Ltd. Model No.: A18A-050100U-US2

4.3 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	-

4.4 Test Mode

Table 1 Tests Carried Out Under FCC part 15.247

Test Items	Mode	Data Rate	Channel	TX/RX
Maximum Peak Output Power	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Power Spectral Density	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
6dB Bandwidth	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Band Edge	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX
Transmitter Spurious Emissions	802.11b	1 Mbps	1/6/11	TX
	802.11g	6 Mbps	1/6/11	TX
	802.11n HT20	MCS0	1/6/11	TX
	802.11n HT40	MCS0	3/6/9	TX

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

4.5 Test Facility

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

ISED CAB identifier: CN0013. Test Firm Registration No.: 7760A.

Waltek Services(Shenzhen) Co., Ltd. Has been registered and fully described in a report filed with the Industry Canada. The acceptance letter from the Industry Canada is maintained in our files.

Registration number 7760A, October 15, 2016.

FCC Designation No.: CN1201. Test Firm Registration No.: 523476.

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 number 523476, September 10, 2019.

5 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
6dB Bandwidth	15.247(a)(2)	PASS
Maximum Peak Output Power	15.247(b)(3),(4)	PASS
Power Spectral Density	15.247(e)	PASS
Band Edge	15.247(d)	PASS
Antenna Requirement	15.203	PASS

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

6 Equipment Used during Test

6.1 Equipments List

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

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

6.2 Description of Support Units

Equipment	Manufacturer	Model No.	Series No.
/	/	/	/

6.3 Measurement Uncertainty

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

6.4 Test Equipment Calibration

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

7 Conducted Emission

Test Requirement: FCC CFR 47 Part 15 Section 15.207

Test Method: ANSI C63.10:2013

Test Result: PASS

Frequency Range: 150kHz to 30MHz

Class/Severity: Class B

Limit:

Frequency (MHz)	Limit (dB μ V)	
	Quasi-peak	Average
0.15 to 0.5	66 to 56*	56 to 46*
0.5 to 5	56	46
5 to 30	60	50

7.1 E.U.T. Operation

Operating Environment :

Temperature: 21.5 °C

Humidity: 51.9 % RH

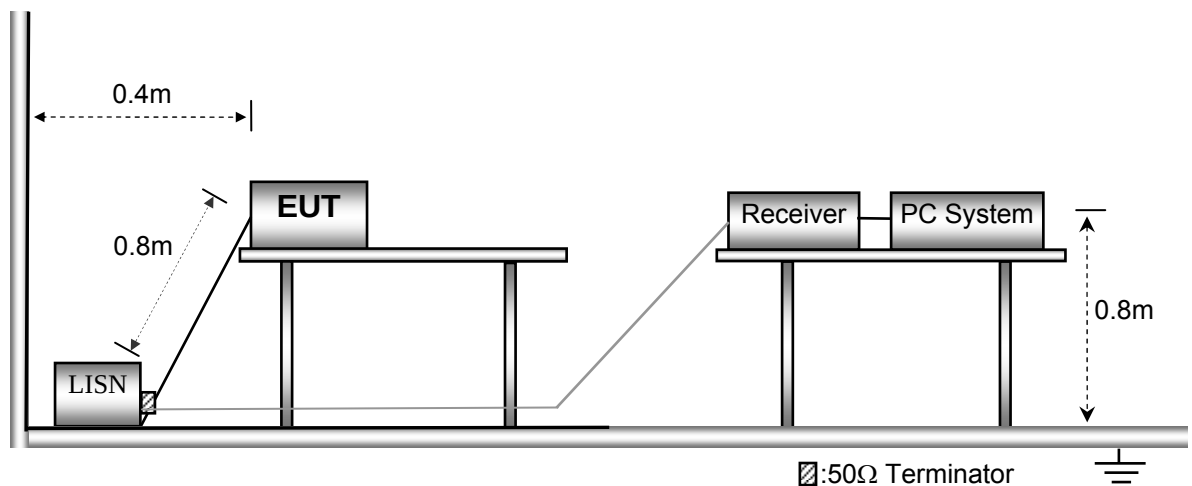
Atmospheric Pressure: 101.2kPa

EUT Operation :

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

7.2 EUT Setup

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



7.3 Measurement Description

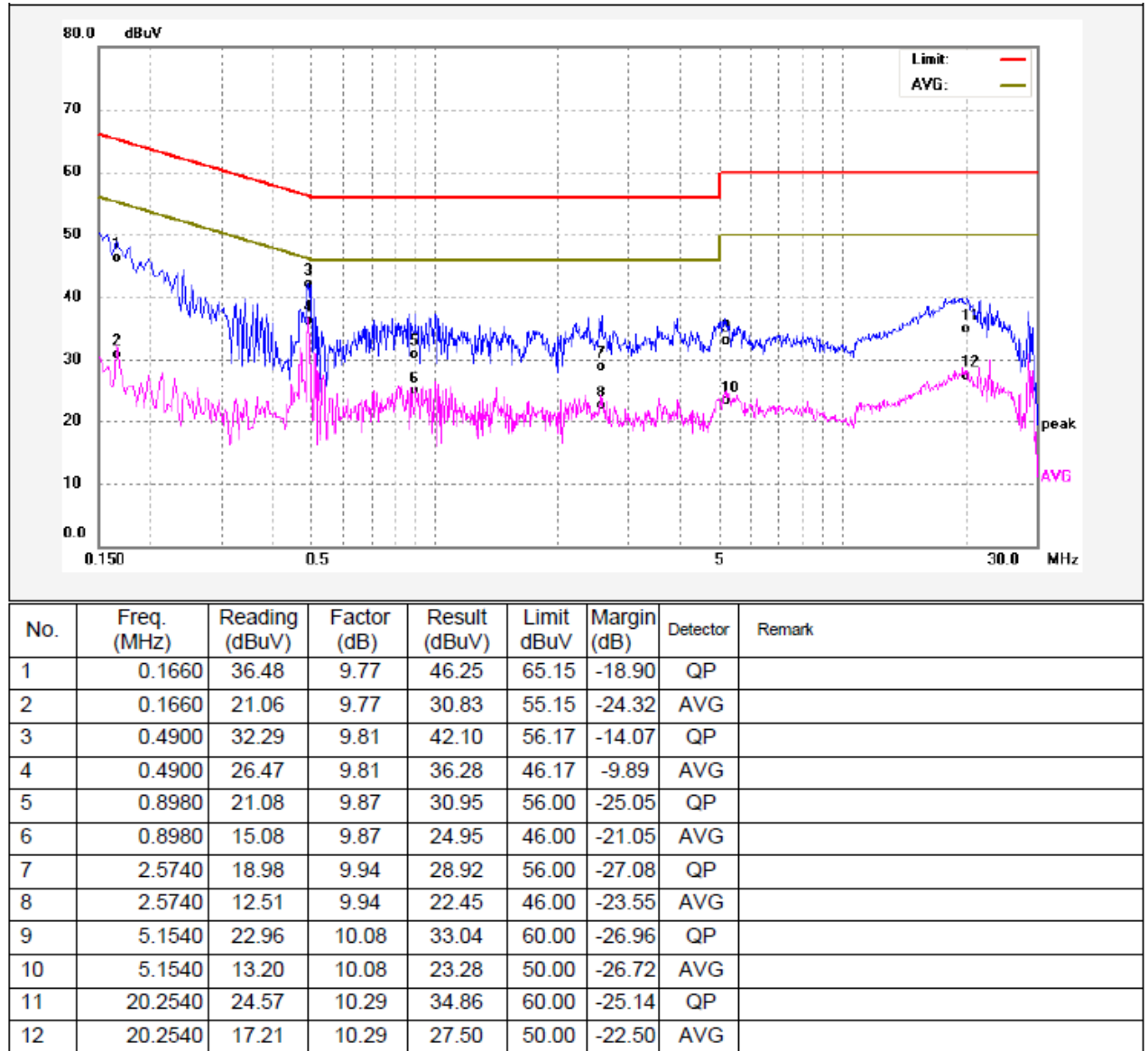
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

7.4 Conducted Emission Test Result

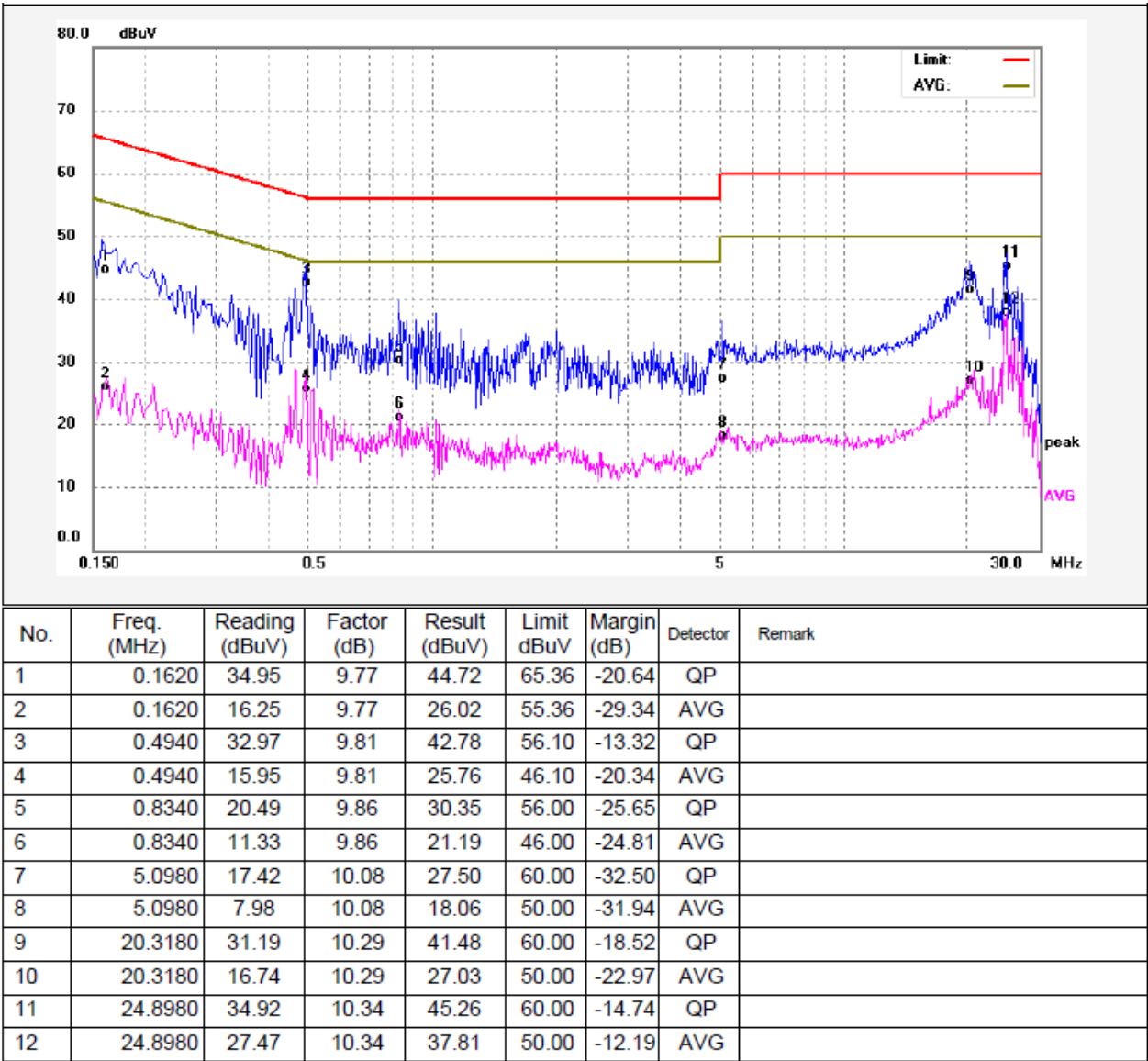
An initial pre-scan was performed on the live and neutral lines.

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

Live line:



Neutral line:



8 Radiated Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.209 & 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Result: PASS

Measurement Distance: 3m

Limit:

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

8.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

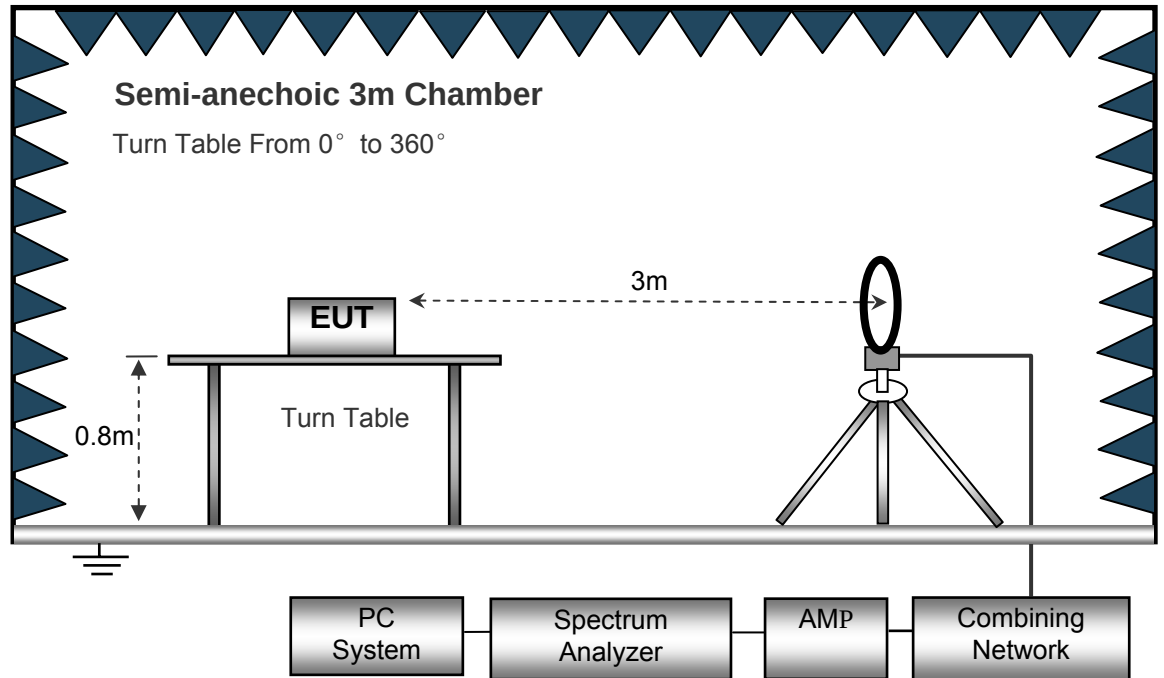
EUT Operation :

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

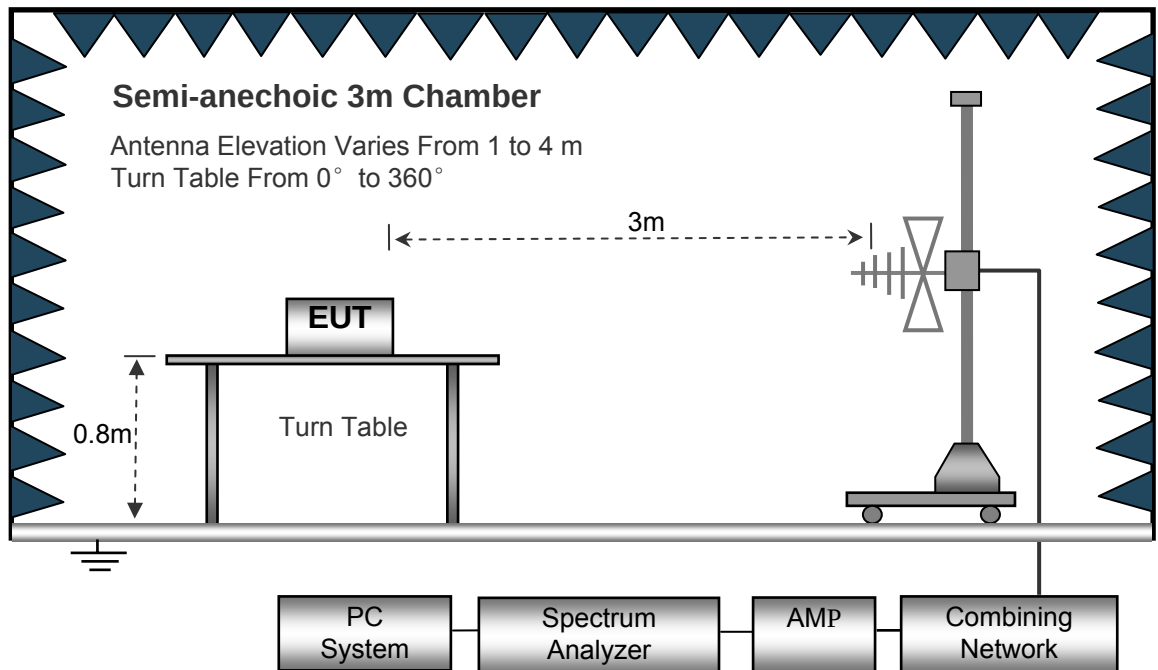
8.2 Test Setup

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

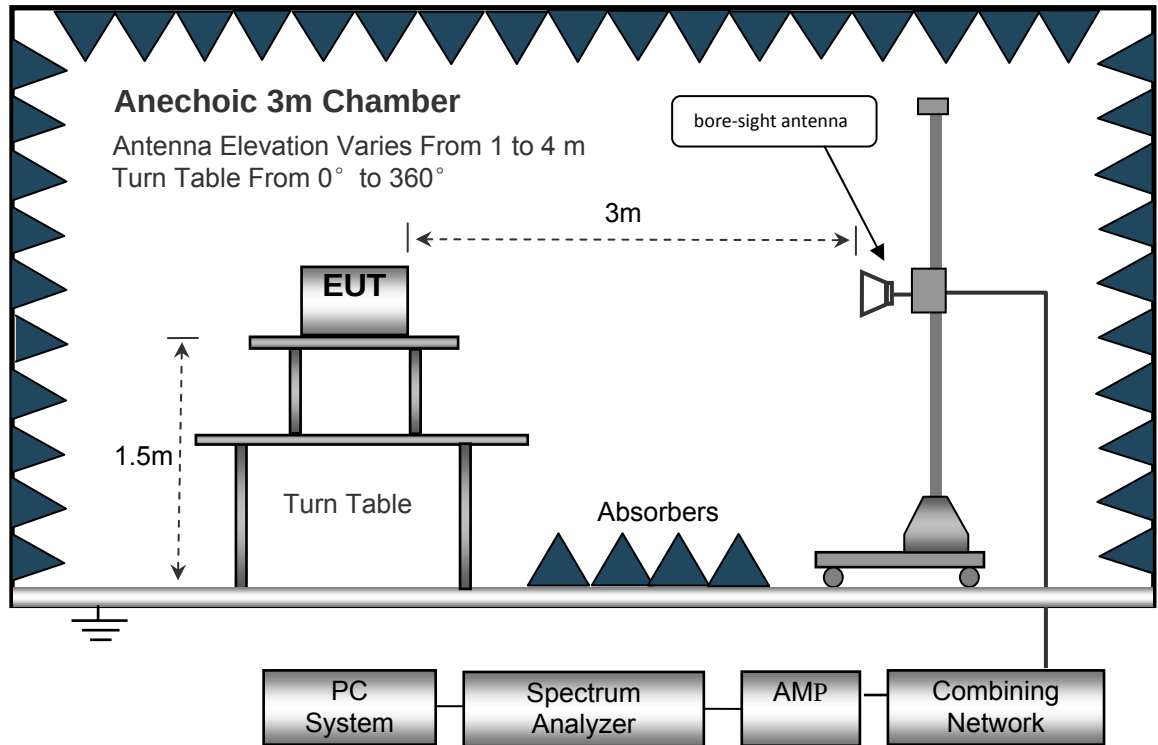
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1 GHz.



8.3 Spectrum Analyzer Setup

Below 30MHz

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

30MHz ~ 1GHz

Sweep Speed Auto
 DetectorPK
 Resolution Bandwidth.....100kHz
 Video Bandwidth.....300kHz

Above 1GHz

Sweep Speed Auto
 DetectorPK
 Resolution Bandwidth.....1MHz
 Video Bandwidth.....3MHz
 DetectorAve.
 Resolution Bandwidth.....1MHz
 Video Bandwidth.....10Hz

8.4 Test Procedure

1. The EUT is placed on a turntable, which is 0.8m above ground plane for below 1GHz and 1.5m for above 1GHz.
2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is moved from 1m to 4m to find out the maximum emissions.
4. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
5. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
6. Repeat above procedures until the measurements for all frequencies are complete.
7. The radiation measurements are performed in X,Y and Z axis positioning(X denotes lying on the table, Y denotes side stand and Z denotes vertical stand),the worst condition was tested putting the eut in Z axis,so the worst data were shown as follow.
8. A 2.4GHz high –pass filter is used during radiated emissions above 1GHz measurement.

8.5 Corrected Amplitude & Margin Calculation

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

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

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

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

8.6 Summary of Test Results

Wifi:

Test Frequency: 9KHz~30MHz

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

Frequency	Measurement results dBμV @3m	Detector PK/QP	Correct factor dB/m	Extrapolation factor dB	Measurement results (calculated) dBμV/m @30m	Limits dBμV/m @30m	Margin dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
802.11b							
6.021	25.20	QP	21.84	40.00	7.04	29.54	-22.50
15.730	24.56	QP	21.35	40.00	5.91	29.54	-23.63
25.680	25.09	QP	20.67	40.00	5.76	29.54	-23.78
802.11g							
6.021	25.34	QP	21.84	40.00	7.18	29.54	-22.36
15.730	24.86	QP	21.35	40.00	6.21	29.54	-23.33
25.680	25.02	QP	20.67	40.00	5.69	29.54	-23.85
802.11n(HT20)							
6.021	25.17	QP	21.84	40.00	7.01	29.54	-22.53
15.730	24.89	QP	21.35	40.00	6.24	29.54	-23.30
25.680	25.63	QP	20.67	40.00	6.30	29.54	-23.24
802.11n(HT40)							
6.021	25.34	QP	21.84	40.00	7.18	29.54	-22.36
15.730	25.36	QP	21.35	40.00	6.71	29.54	-22.83
25.680	25.18	QP	20.67	40.00	5.85	29.54	-23.69

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)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Low Channel 2412MHz									
223.45	40.78	QP	153	1.1	H	-11.62	29.16	46.00	-16.84
223.45	37.42	QP	34	1.7	V	-11.62	25.80	46.00	-20.20
4824.00	49.25	PK	200	1.5	V	-1.06	48.19	74.00	-25.81
4824.00	45.78	Ave	200	1.5	V	-1.06	44.72	54.00	-9.28
7236.00	40.44	PK	75	1.4	H	1.33	41.77	74.00	-32.23
7236.00	41.62	Ave	75	1.4	H	1.33	42.95	54.00	-11.05
2336.19	46.42	PK	80	1.1	V	-13.19	33.23	74.00	-40.77
2336.19	39.21	Ave	80	1.1	V	-13.19	26.02	54.00	-27.98
2359.96	42.65	PK	100	1.4	H	-13.14	29.51	74.00	-44.49
2359.96	36.21	Ave	100	1.4	H	-13.14	23.07	54.00	-30.93
2488.80	42.17	PK	24	1.3	V	-13.08	29.09	74.00	-44.91
2488.80	37.15	Ave	24	1.3	V	-13.08	24.07	54.00	-29.93

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)
11b: Middle Channel 2437MHz									
223.45	41.47	QP	83	1.4	H	-11.62	29.85	46.00	-16.15
223.45	37.16	QP	333	1.1	V	-11.62	25.54	46.00	-20.46
4874.00	48.63	PK	299	1.1	V	-0.62	48.01	74.00	-25.99
4874.00	45.27	Ave	299	1.1	V	-0.62	44.65	54.00	-9.35
7311.00	39.88	PK	131	1.8	H	2.21	42.09	74.00	-31.91
7311.00	40.30	Ave	131	1.8	H	2.21	42.51	54.00	-11.49
2315.68	45.08	PK	244	1.2	V	-13.19	31.89	74.00	-42.11
2315.68	39.35	Ave	244	1.2	V	-13.19	26.16	54.00	-27.84
2351.84	44.44	PK	303	1.1	H	-13.14	31.30	74.00	-42.70
2351.84	36.37	Ave	303	1.1	H	-13.14	23.23	54.00	-30.77
2485.76	44.86	PK	45	1.4	V	-13.08	31.78	74.00	-42.22
2485.76	37.57	Ave	45	1.4	V	-13.08	24.49	54.00	-29.51

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)
11b: High Channel 2462MHz									
223.45	40.85	QP	320	1.5	H	-11.62	29.23	46.00	-16.77
223.45	36.02	QP	118	1.2	V	-11.62	24.40	46.00	-21.60
4924.00	48.39	PK	220	1.2	V	-0.24	48.15	74.00	-25.85
4924.00	44.20	Ave	220	1.2	V	-0.24	43.96	54.00	-10.04
7386.00	39.18	PK	264	1.9	H	2.84	42.02	74.00	-31.98
7386.00	41.13	Ave	264	1.9	H	2.84	43.97	54.00	-10.03
2349.75	45.03	PK	343	1.6	V	-13.19	31.84	74.00	-42.16
2349.75	39.28	Ave	343	1.6	V	-13.19	26.09	54.00	-27.91
2364.03	42.60	PK	295	1.3	H	-13.14	29.46	74.00	-44.54
2364.03	36.22	Ave	295	1.3	H	-13.14	23.08	54.00	-30.92
2484.23	42.68	PK	136	1.9	V	-13.08	29.60	74.00	-44.40
2484.23	38.57	Ave	136	1.9	V	-13.08	25.49	54.00	-28.51

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Low Channel 2412MHz									
223.45	40.60	QP	88	1.1	H	-11.62	28.98	46.00	-17.02
223.45	37.21	QP	194	1.5	V	-11.62	25.59	46.00	-20.41
4824.00	48.26	PK	56	1.2	V	-1.06	47.20	74.00	-26.80
4824.00	44.97	Ave	56	1.2	V	-1.06	43.91	54.00	-10.09
7236.00	39.14	PK	305	2.0	H	1.33	40.47	74.00	-33.53
7236.00	40.74	Ave	305	2.0	H	1.33	42.07	54.00	-11.93
2328.59	45.72	PK	129	1.2	V	-13.19	32.53	74.00	-41.47
2328.59	38.70	Ave	129	1.2	V	-13.19	25.51	54.00	-28.49
2351.21	43.93	PK	186	1.2	H	-13.14	30.79	74.00	-43.21
2351.21	37.77	Ave	186	1.2	H	-13.14	24.63	54.00	-29.37
2489.39	43.03	PK	200	1.6	V	-13.08	29.95	74.00	-44.05
2489.39	36.95	Ave	200	1.6	V	-13.08	23.87	54.00	-30.13

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11g: Middle Channel 2437MHz									
223.45	41.03	QP	163	1.5	H	-11.62	29.41	46.00	-16.59
223.45	37.09	QP	214	1.4	V	-11.62	25.47	46.00	-20.53
4874.00	47.78	PK	326	1.3	V	-0.62	47.16	74.00	-26.84
4874.00	45.11	Ave	326	1.3	V	-0.62	44.49	54.00	-9.51
7311.00	39.64	PK	306	1.4	H	2.21	41.85	74.00	-32.15
7311.00	40.04	Ave	306	1.4	H	2.21	42.25	54.00	-11.75
2347.61	45.29	PK	319	1.2	V	-13.19	32.10	74.00	-41.90
2347.61	38.55	Ave	319	1.2	V	-13.19	25.36	54.00	-28.64
2350.66	43.30	PK	106	2.0	H	-13.14	30.16	74.00	-43.84
2350.66	38.00	Ave	106	2.0	H	-13.14	24.86	54.00	-29.14
2496.58	42.31	PK	96	1.5	V	-13.08	29.23	74.00	-44.77
2496.58	38.71	Ave	96	1.5	V	-13.08	25.63	54.00	-28.37

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)
11g: High Channel 2462MHz									
223.45	39.66	QP	86	1.9	H	-11.62	28.04	46.00	-17.96
223.45	36.02	QP	103	1.9	V	-11.62	24.40	46.00	-21.60
4924.00	48.05	PK	157	1.9	V	-0.24	47.81	74.00	-26.19
4924.00	44.96	Ave	157	1.9	V	-0.24	44.72	54.00	-9.28
7386.00	38.27	PK	66	1.1	H	2.84	41.11	74.00	-32.89
7386.00	41.53	Ave	66	1.1	H	2.84	44.37	54.00	-9.63
2315.02	45.07	PK	349	1.1	V	-13.19	31.88	74.00	-42.12
2315.02	38.15	Ave	349	1.1	V	-13.19	24.96	54.00	-29.04
2378.35	43.59	PK	215	1.7	H	-13.14	30.45	74.00	-43.55
2378.35	38.35	Ave	215	1.7	H	-13.14	25.21	54.00	-28.79
2488.37	42.63	PK	321	1.8	V	-13.08	29.55	74.00	-44.45
2488.37	37.10	Ave	321	1.8	V	-13.08	24.02	54.00	-29.98

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)
11n20: Low Channel 2412MHz									
223.45	40.62	QP	14	2.0	H	-11.62	29.00	46.00	-17.00
223.45	36.23	QP	274	1.8	V	-11.62	24.61	46.00	-21.39
4824.00	48.53	PK	226	1.3	V	-1.06	47.47	74.00	-26.53
4824.00	43.81	Ave	226	1.3	V	-1.06	42.75	54.00	-11.25
7236.00	39.65	PK	324	1.9	H	1.33	40.98	74.00	-33.02
7236.00	41.35	Ave	324	1.9	H	1.33	42.68	54.00	-11.32
2313.03	45.81	PK	201	1.1	V	-13.19	32.62	74.00	-41.38
2313.03	39.24	Ave	201	1.1	V	-13.19	26.05	54.00	-27.95
2386.07	42.61	PK	80	1.0	H	-13.14	29.47	74.00	-44.53
2386.07	37.61	Ave	80	1.0	H	-13.14	24.47	54.00	-29.53
2488.76	42.34	PK	120	1.3	V	-13.08	29.26	74.00	-44.74
2488.76	37.82	Ave	120	1.3	V	-13.08	24.74	54.00	-29.26

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)
11n20: Middle Channel 2437MHz									
223.45	42.03	QP	272	1.5	H	-11.62	30.41	46.00	-15.59
223.45	37.26	QP	316	1.4	V	-11.62	25.64	46.00	-20.36
4874.00	48.62	PK	157	1.6	V	-0.62	48.00	74.00	-26.00
4874.00	43.34	Ave	157	1.6	V	-0.62	42.72	54.00	-11.28
7311.00	39.20	PK	262	2.0	H	2.21	41.41	74.00	-32.59
7311.00	42.05	Ave	262	2.0	H	2.21	44.26	54.00	-9.74
2315.05	46.45	PK	8	1.0	V	-13.19	33.26	74.00	-40.74
2315.05	38.17	Ave	8	1.0	V	-13.19	24.98	54.00	-29.02
2378.02	42.23	PK	11	1.2	H	-13.14	29.09	74.00	-44.91
2378.02	37.04	Ave	11	1.2	H	-13.14	23.90	54.00	-30.10
2488.97	44.98	PK	148	1.7	V	-13.08	31.90	74.00	-42.10
2488.97	38.56	Ave	148	1.7	V	-13.08	25.48	54.00	-28.52

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)
11n20: High Channel 2462MHz									
223.45	40.61	QP	358	1.8	H	-11.62	28.99	46.00	-17.01
223.45	37.98	QP	151	1.9	V	-11.62	26.36	46.00	-19.64
4924.00	49.57	PK	340	1.9	V	-0.24	49.33	74.00	-24.67
4924.00	42.46	Ave	340	1.9	V	-0.24	42.22	54.00	-11.78
7386.00	38.09	PK	69	2.0	H	2.84	40.93	74.00	-33.07
7386.00	40.60	Ave	69	2.0	H	2.84	43.44	54.00	-10.56
2340.07	46.40	PK	238	1.3	V	-13.19	33.21	74.00	-40.79
2340.07	38.99	Ave	238	1.3	V	-13.19	25.80	54.00	-28.20
2355.53	42.27	PK	126	1.5	H	-13.14	29.13	74.00	-44.87
2355.53	38.28	Ave	126	1.5	H	-13.14	25.14	54.00	-28.86
2494.59	44.26	PK	311	1.7	V	-13.08	31.18	74.00	-42.82
2494.59	38.80	Ave	311	1.7	V	-13.08	25.72	54.00	-28.28

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)
11n40: Low Channel 2422MHz									
223.45	45.30	QP	209	1.2	H	-11.62	33.68	46.00	-12.32
223.45	37.69	QP	96	1.6	V	-11.62	26.07	46.00	-19.93
4844.00	51.52	PK	337	1.4	V	-1.06	50.46	74.00	-23.54
4844.00	46.90	Ave	337	1.4	V	-1.06	45.84	54.00	-8.16
7266.00	39.11	PK	184	1.0	H	1.33	40.44	74.00	-33.56
7266.00	40.34	Ave	184	1.0	H	1.33	41.67	54.00	-12.33
2316.61	45.65	PK	158	1.5	V	-13.19	32.46	74.00	-41.54
2316.61	39.46	Ave	158	1.5	V	-13.19	26.27	54.00	-27.73
2354.74	42.21	PK	143	1.3	H	-13.14	29.07	74.00	-44.93
2354.74	38.34	Ave	143	1.3	H	-13.14	25.20	54.00	-28.80
2496.10	43.10	PK	103	1.3	V	-13.08	30.02	74.00	-43.98
2496.10	37.35	Ave	103	1.3	V	-13.08	24.27	54.00	-29.73

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)
11n40: Middle Channel 2437MHz									
223.45	45.27	QP	213	2.0	H	-11.62	33.65	46.00	-12.35
223.45	37.67	QP	12	1.3	V	-11.62	26.05	46.00	-19.95
4874.00	51.07	PK	144	1.1	V	-0.62	50.45	74.00	-23.55
4874.00	46.57	Ave	144	1.1	V	-0.62	45.95	54.00	-8.05
7311.00	39.17	PK	178	1.3	H	2.21	41.38	74.00	-32.62
7311.00	39.97	Ave	178	1.3	H	2.21	42.18	54.00	-11.82
2333.33	45.69	PK	261	1.2	V	-13.19	32.50	74.00	-41.50
2333.33	39.80	Ave	261	1.2	V	-13.19	26.61	54.00	-27.39
2365.61	43.58	PK	25	1.2	H	-13.14	30.44	74.00	-43.56
2365.61	38.37	Ave	25	1.2	H	-13.14	25.23	54.00	-28.77
2487.14	43.75	PK	194	1.2	V	-13.08	30.67	74.00	-43.33
2487.14	36.63	Ave	194	1.2	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)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: High Channel 2452MHz									
223.45	45.81	QP	75	1.2	H	-11.62	34.19	46.00	-11.81
223.45	37.82	QP	81	1.8	V	-11.62	26.20	46.00	-19.80
4904.00	50.97	PK	62	2.0	V	-0.24	50.73	74.00	-23.27
4904.00	47.20	Ave	62	2.0	V	-0.24	46.96	54.00	-7.04
7356.00	38.25	PK	145	1.6	H	2.84	41.09	74.00	-32.91
7356.00	40.93	Ave	145	1.6	H	2.84	43.77	54.00	-10.23
2312.11	46.27	PK	8	1.4	V	-13.19	33.08	74.00	-40.92
2312.11	38.63	Ave	8	1.4	V	-13.19	25.44	54.00	-28.56
2385.47	43.77	PK	142	1.2	H	-13.14	30.63	74.00	-43.37
2385.47	38.73	Ave	142	1.2	H	-13.14	25.59	54.00	-28.41
2485.42	42.03	PK	190	1.9	V	-13.08	28.95	74.00	-45.05
2485.42	38.90	Ave	190	1.9	V	-13.08	25.82	54.00	-28.18

Test Frequency: 18GHz~25GHz

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

9 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Result: PASS

Limit:

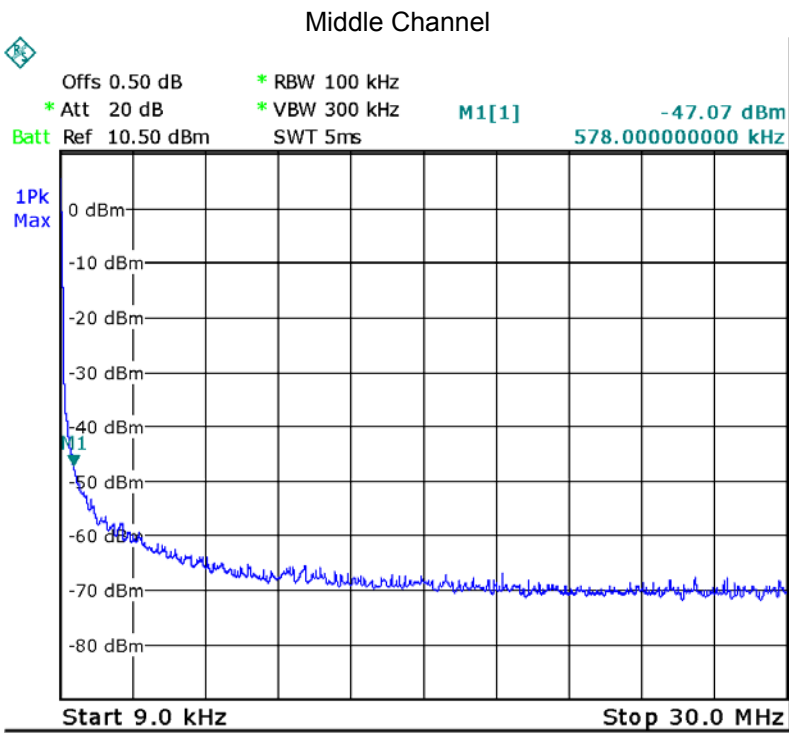
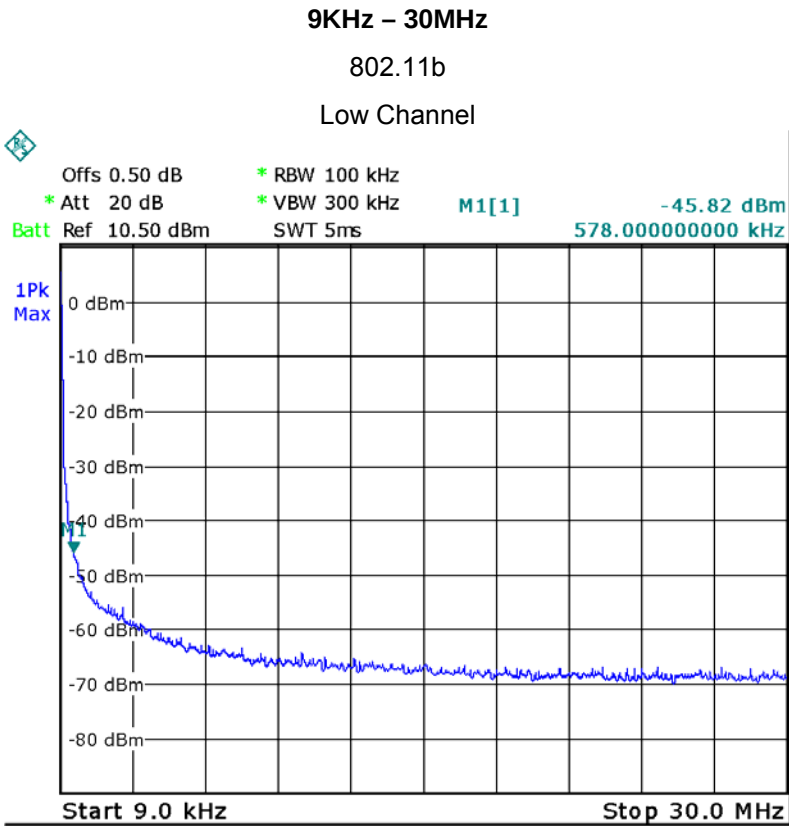
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the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

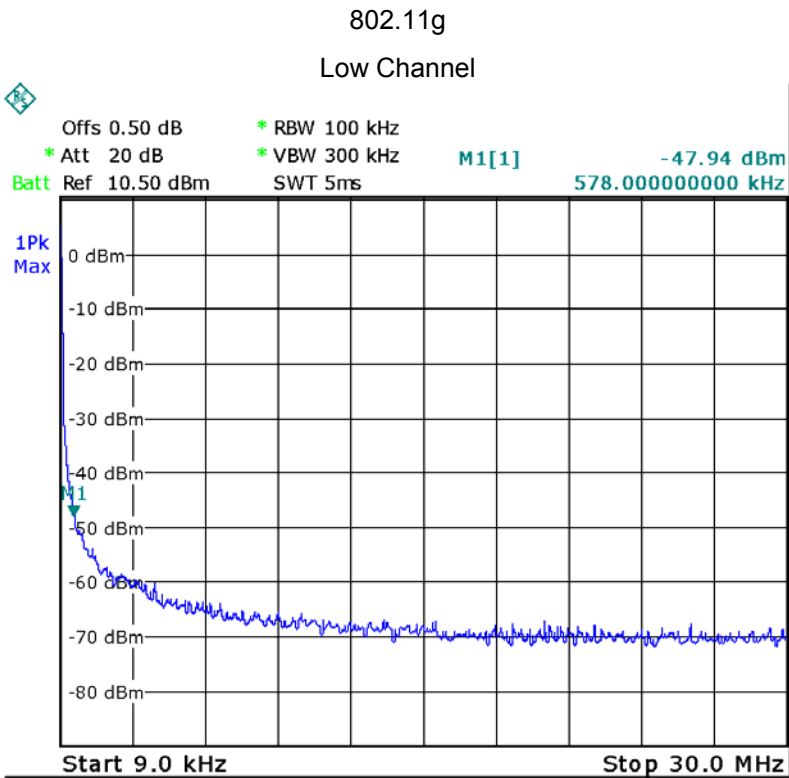
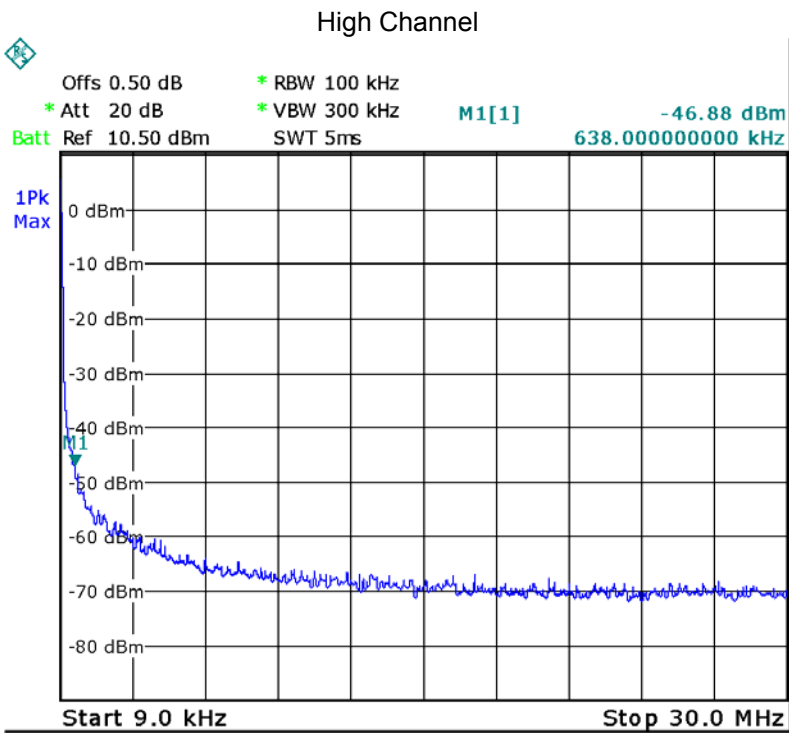
9.1 Test Procedure

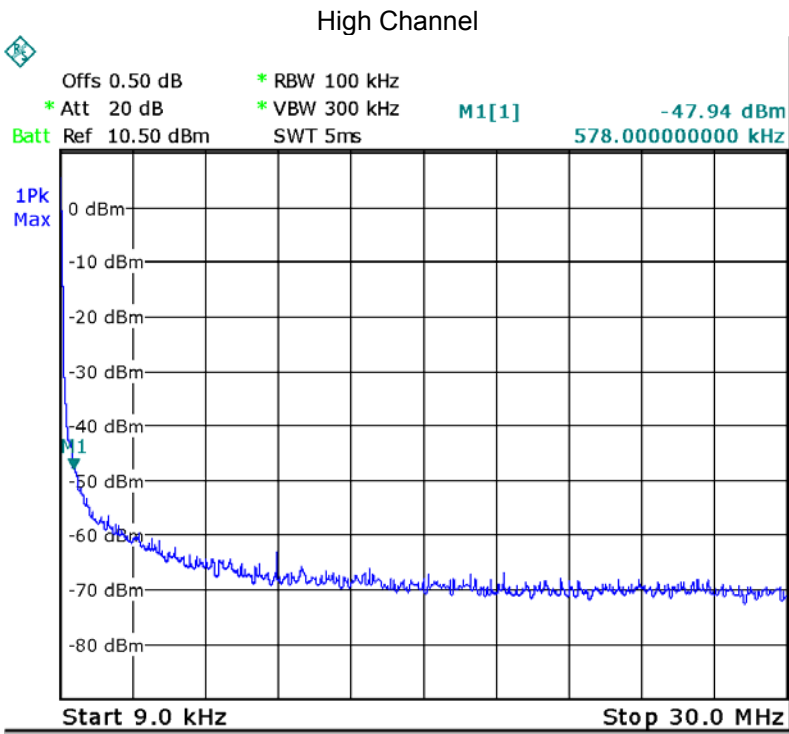
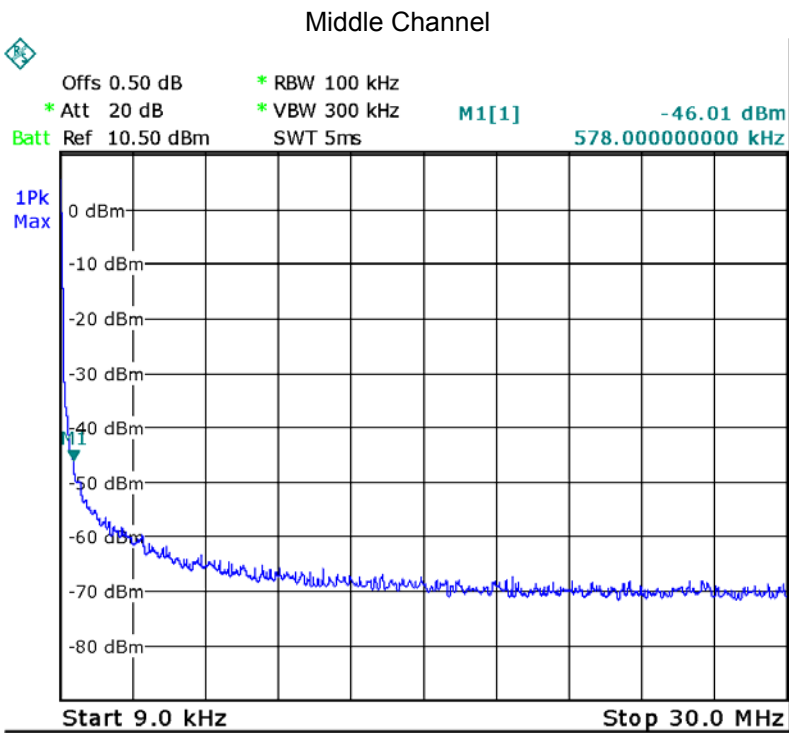
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
 - a) Set instrument center frequency to DTS channel center frequency.
 - b) Set the span to _ 1.5 times the DTS bandwidth.
 - c) Set the RBW = 100 kHz.
 - d) Set the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

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

9.2 Test Result

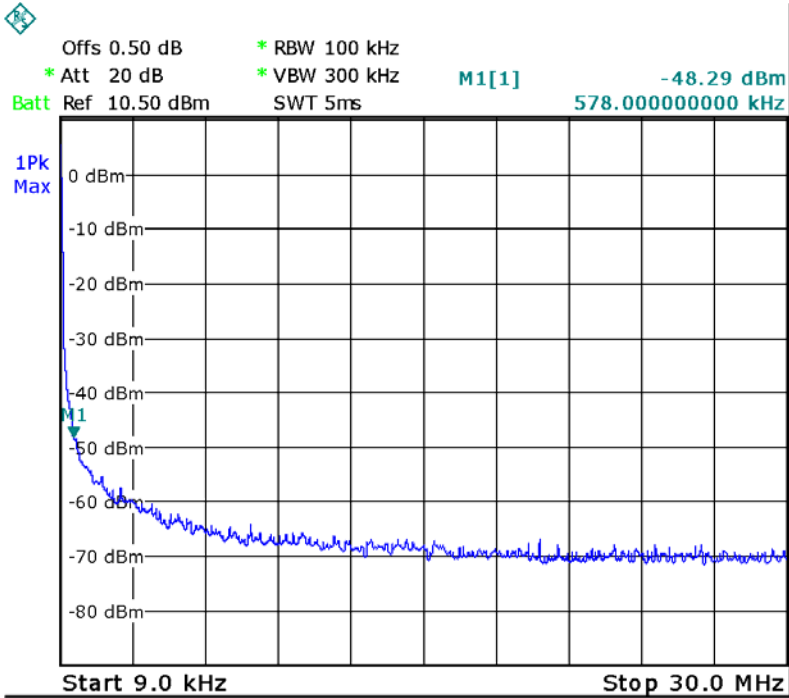




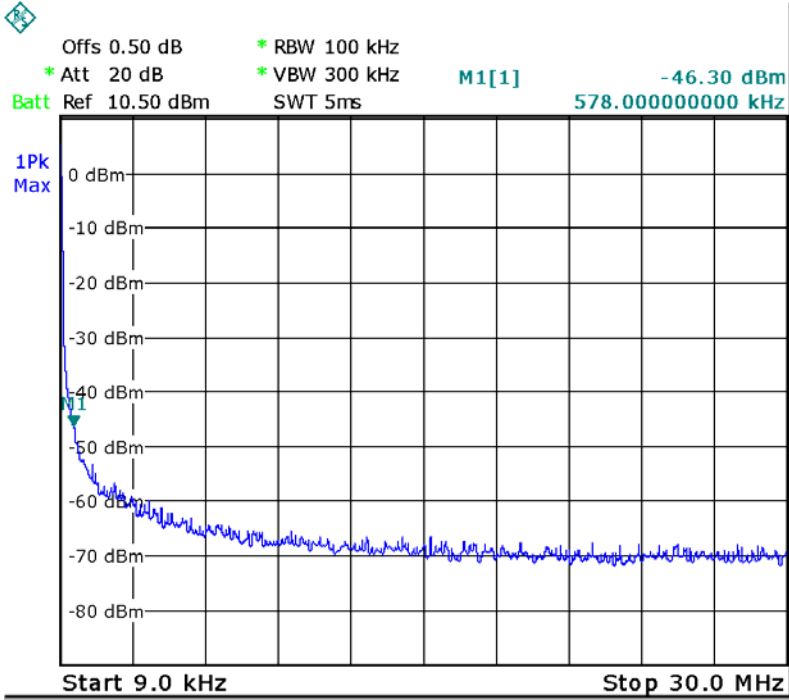


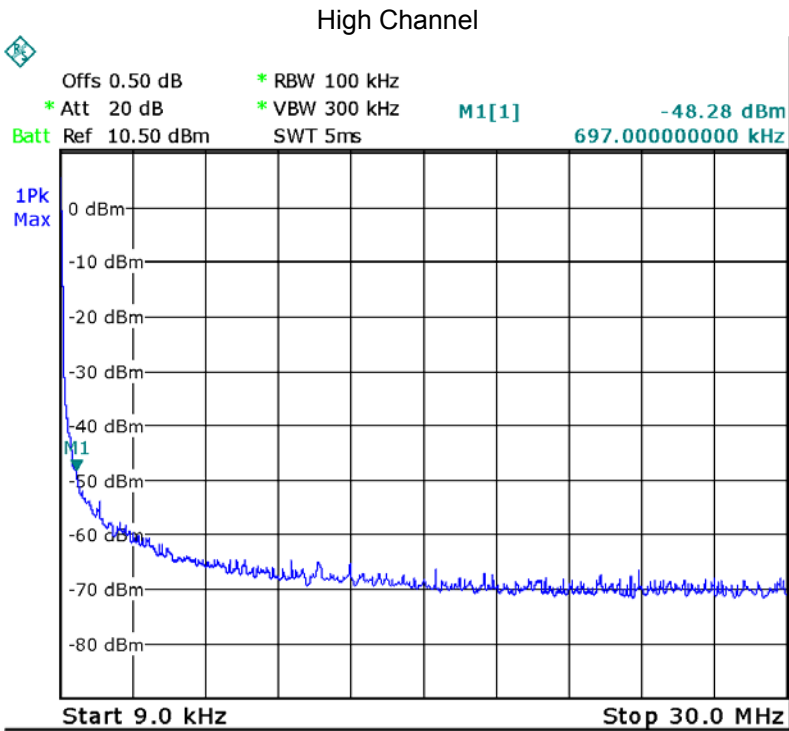
802.11n HT20

Low Channel



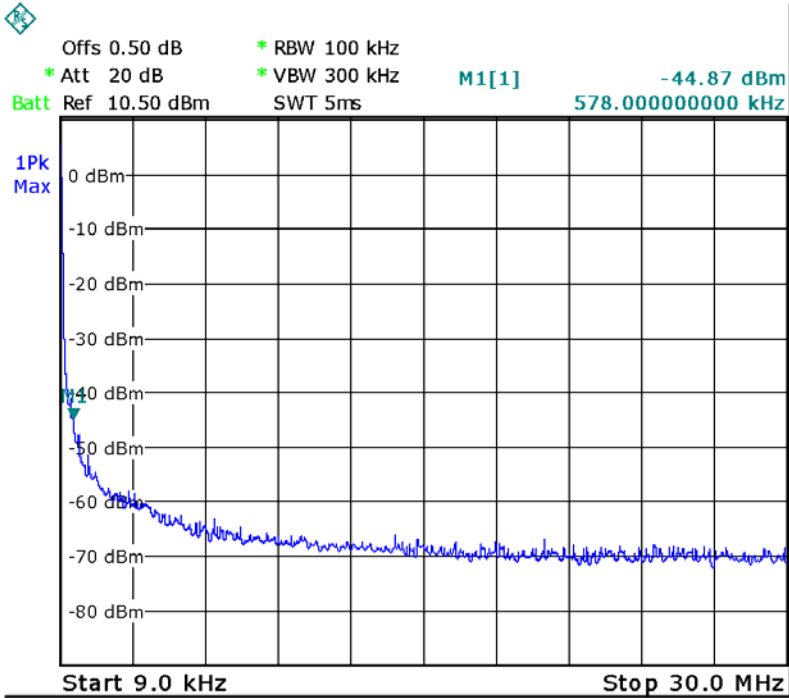
Middle Channel



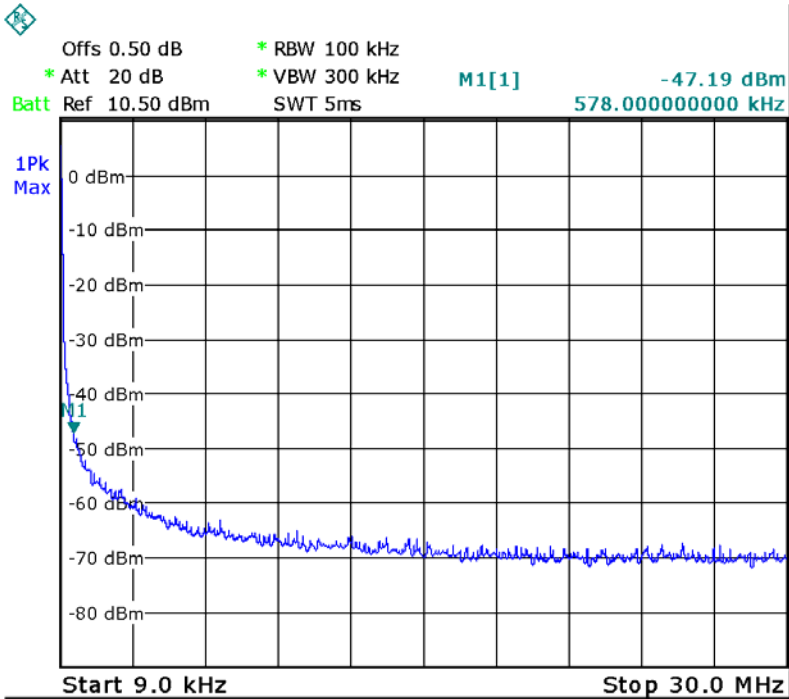


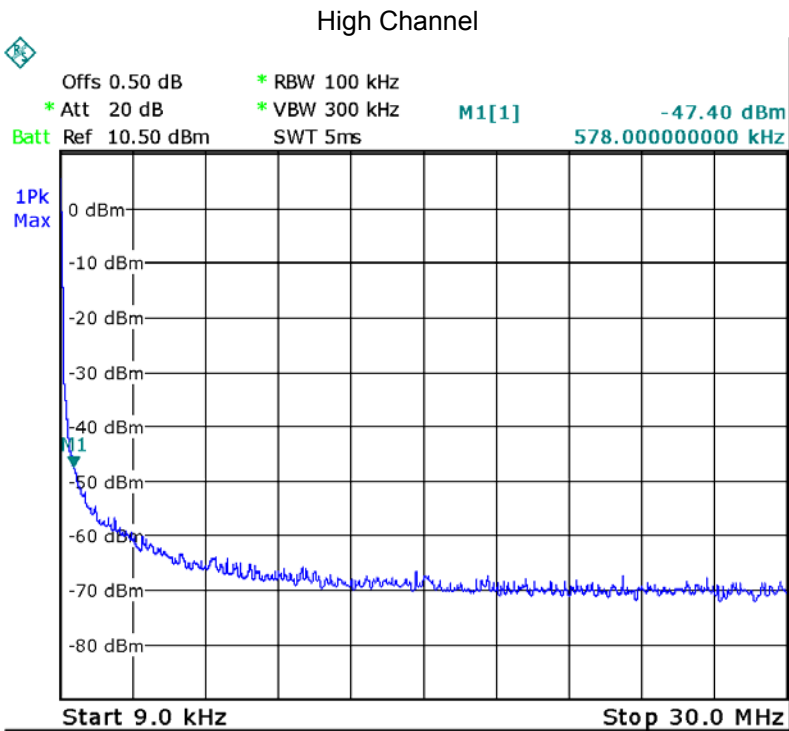
802.11n HT40

Low Channel

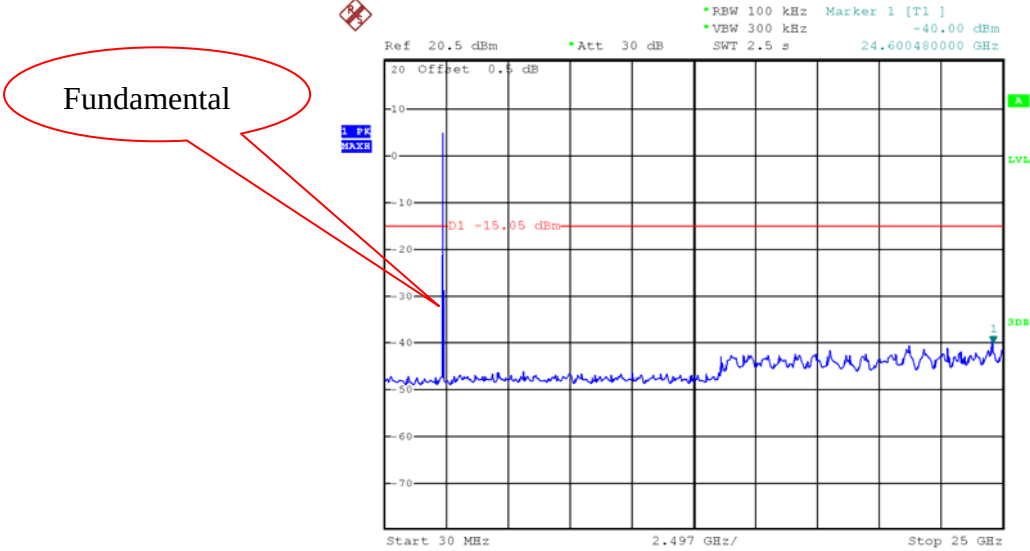


Middle Channel



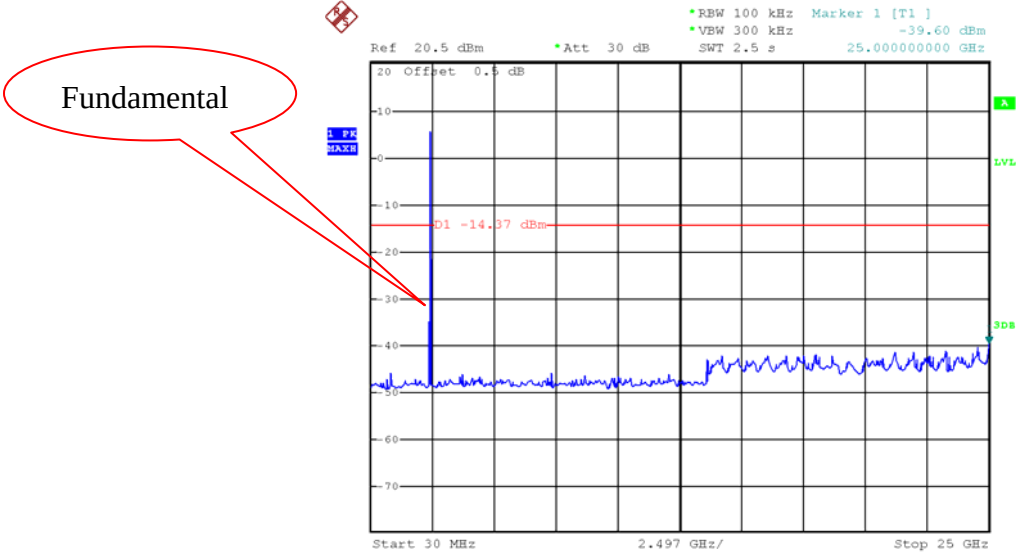


Above 30MHz
802.11b
Low Channel

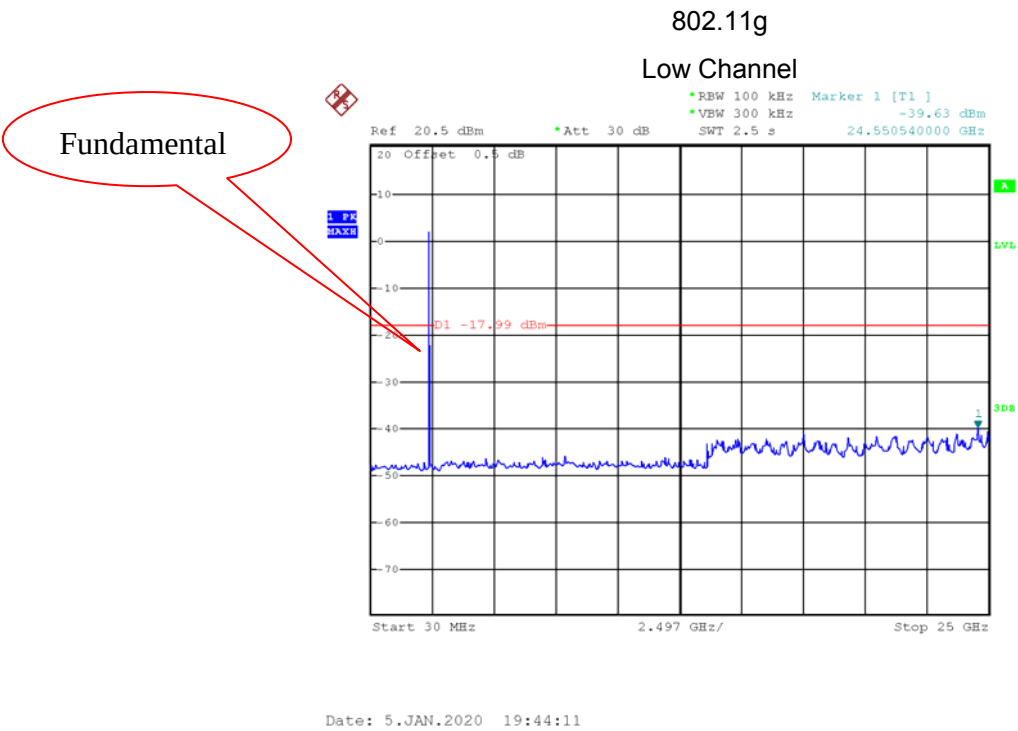
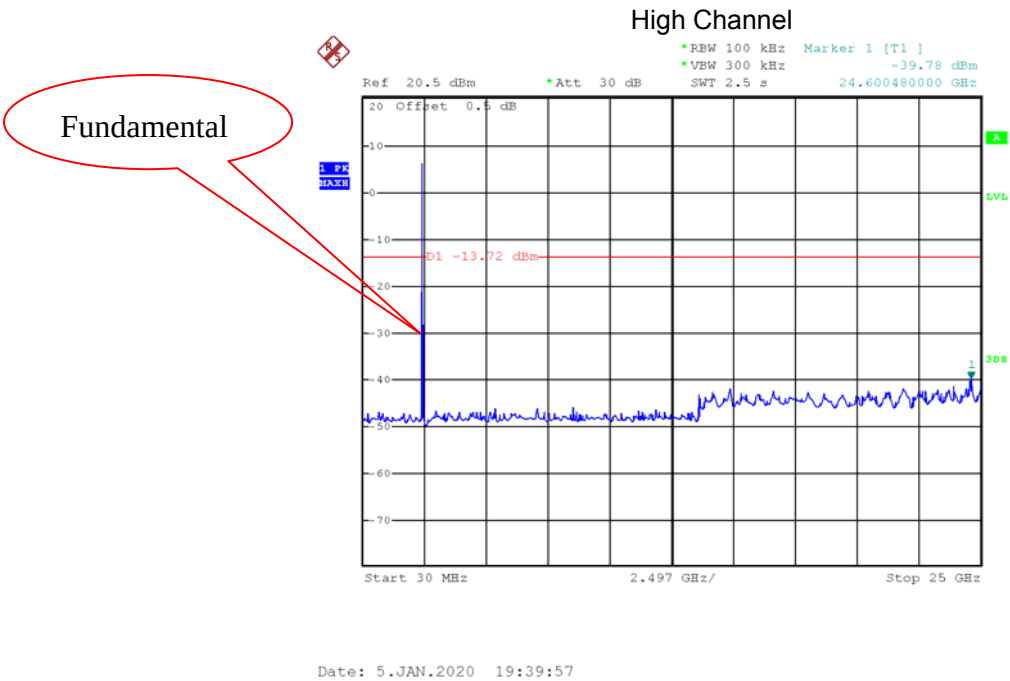


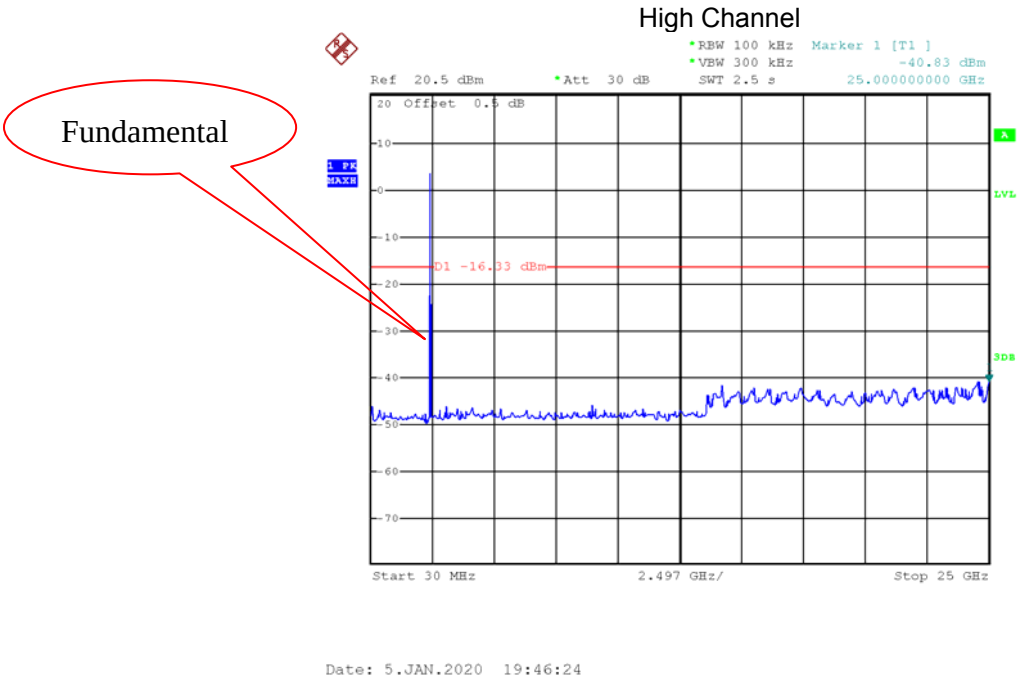
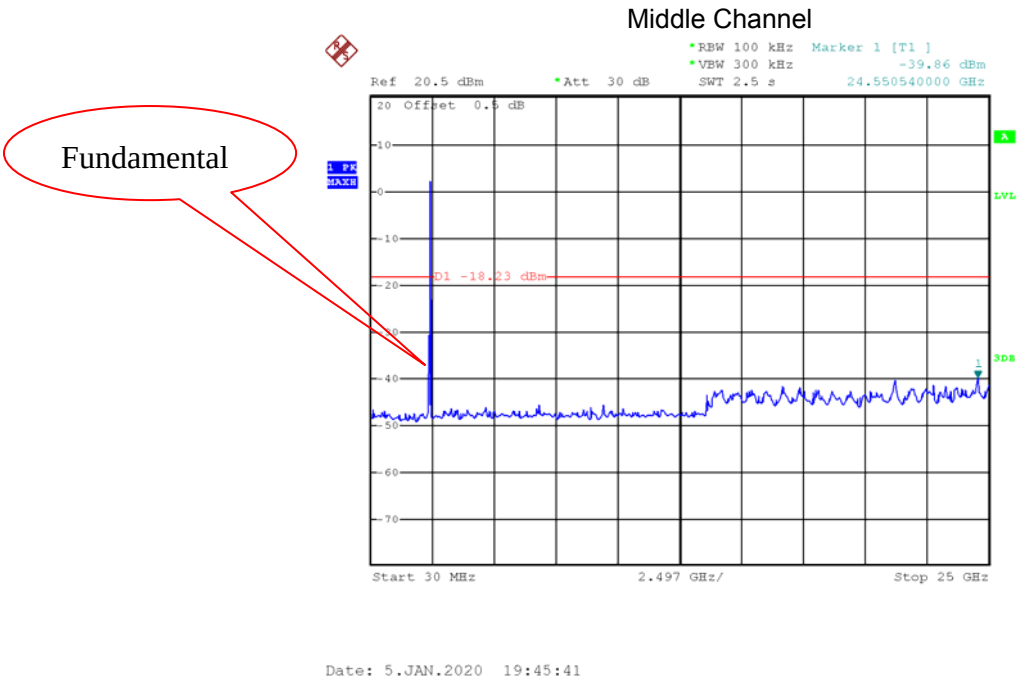
Date: 5.JAN.2020 19:38:12

Middle Channel



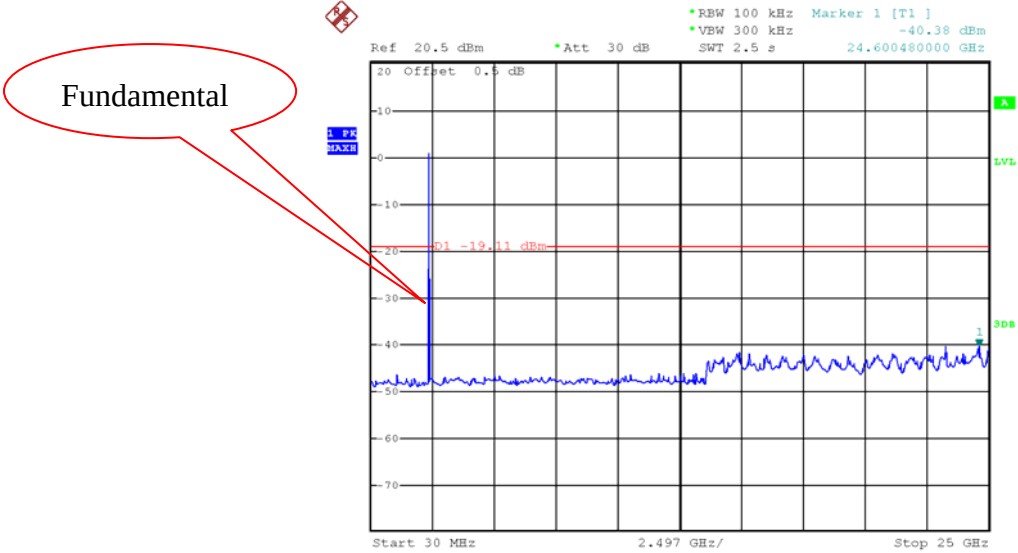
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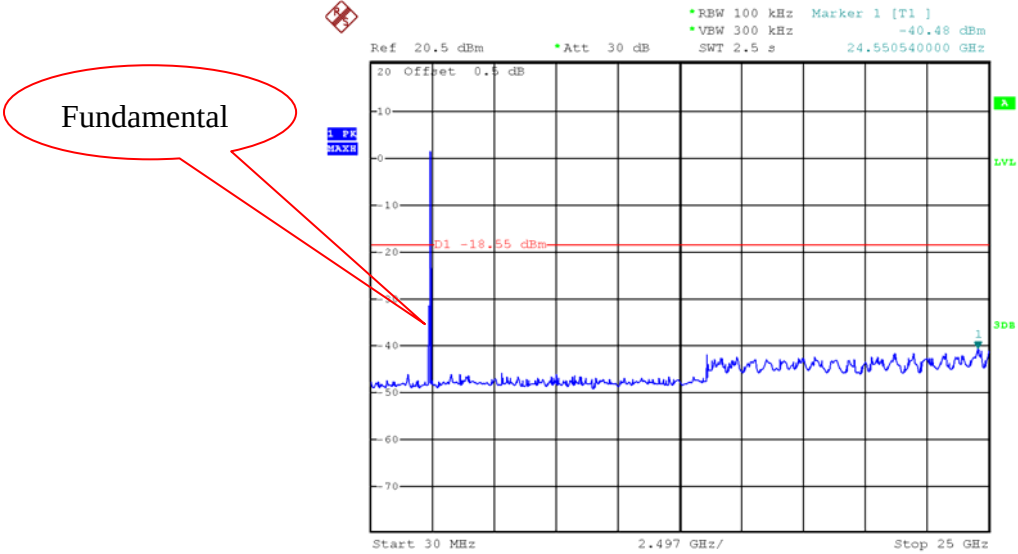
802.11n HT20

Low Channel

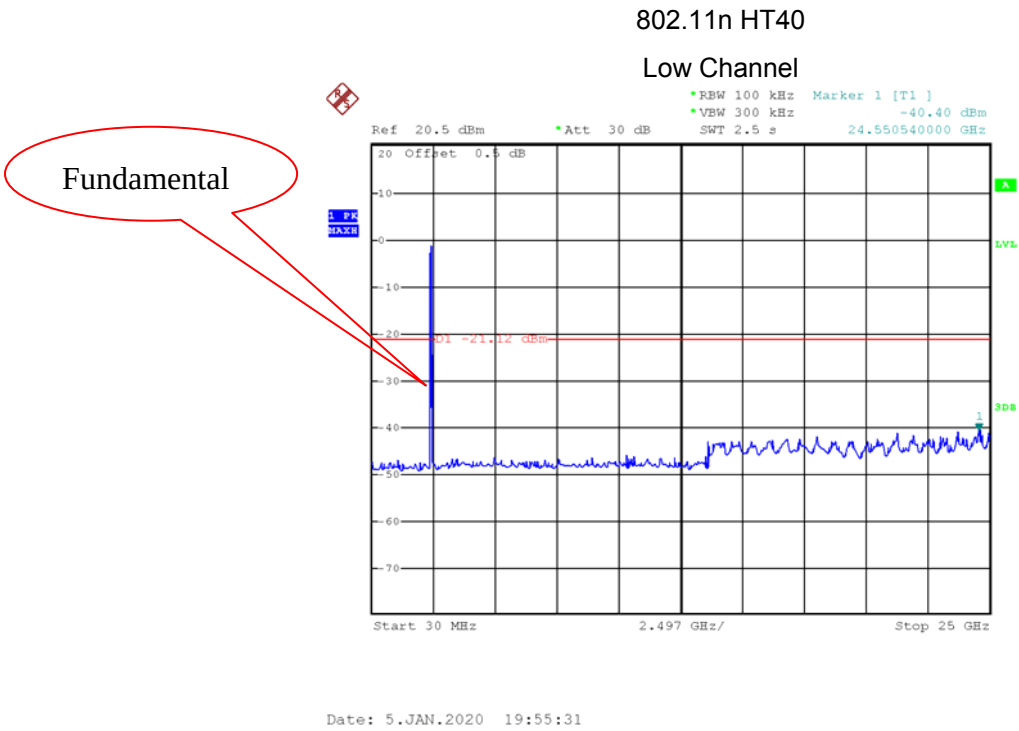
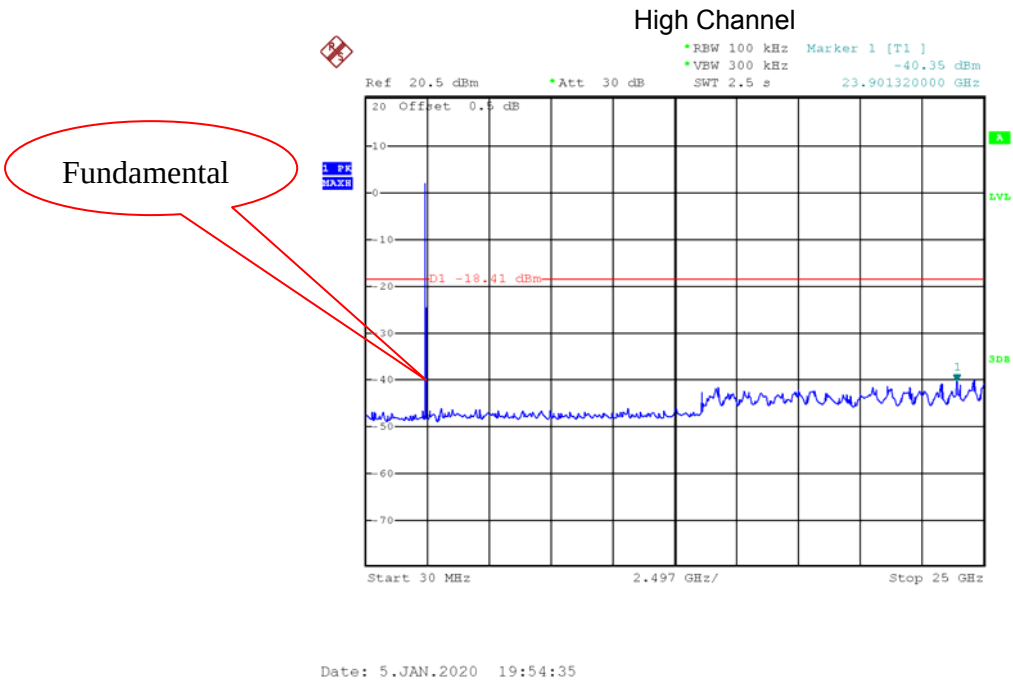


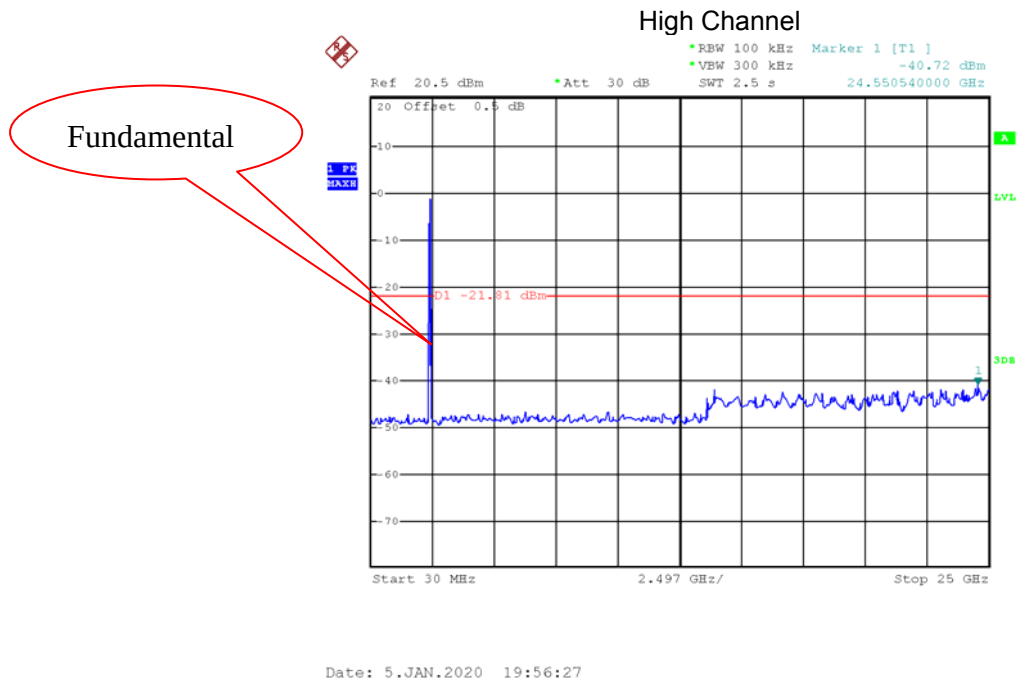
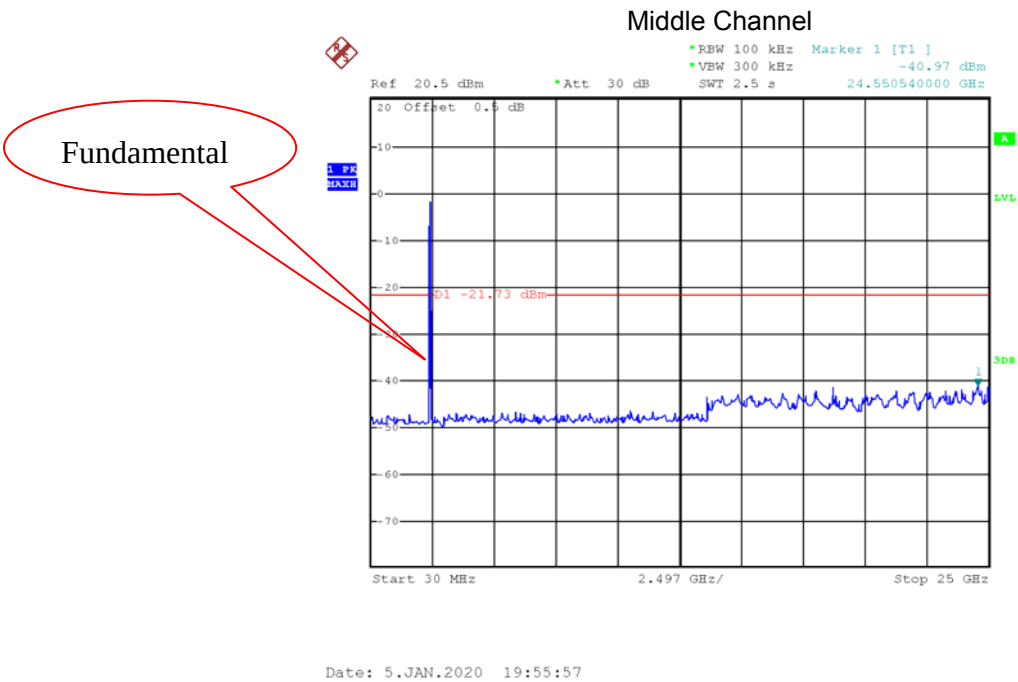
Date: 5.JAN.2020 19:47:29

Middle Channel



Date: 5.JAN.2020 19:48:36





10 Band Edge Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

Test Limit: Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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)).

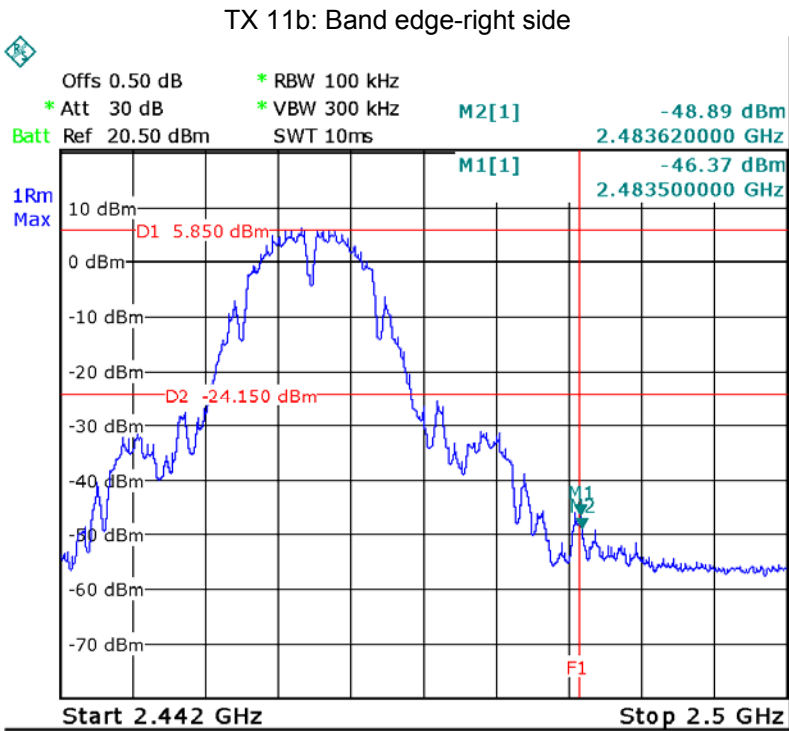
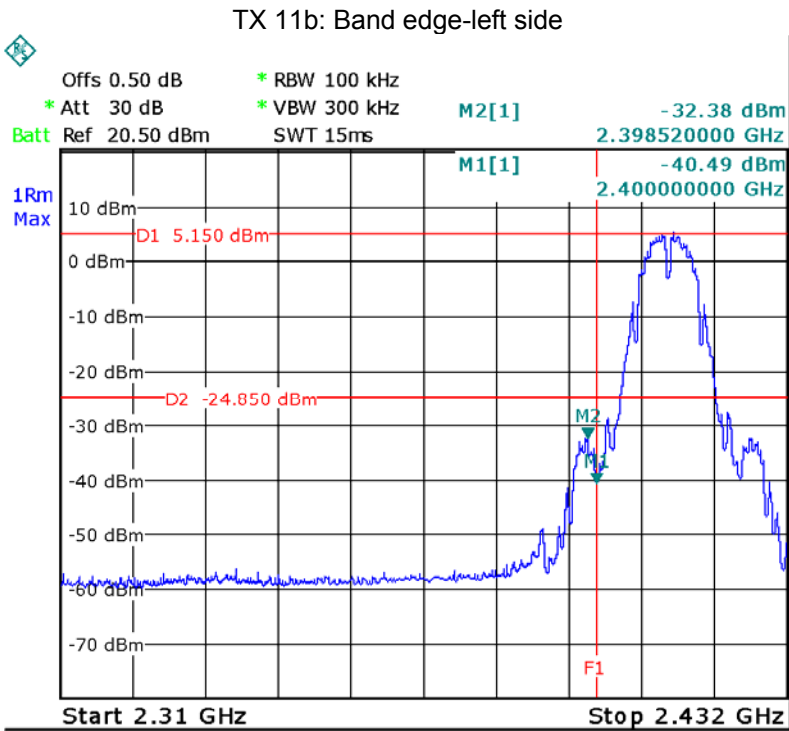
Test Mode: Transmitting

10.1 Test Produce

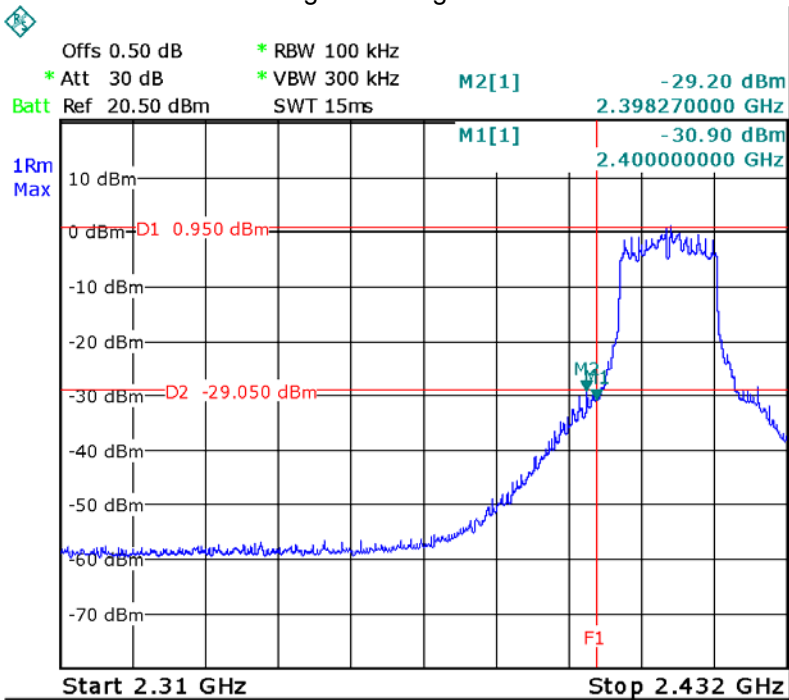
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

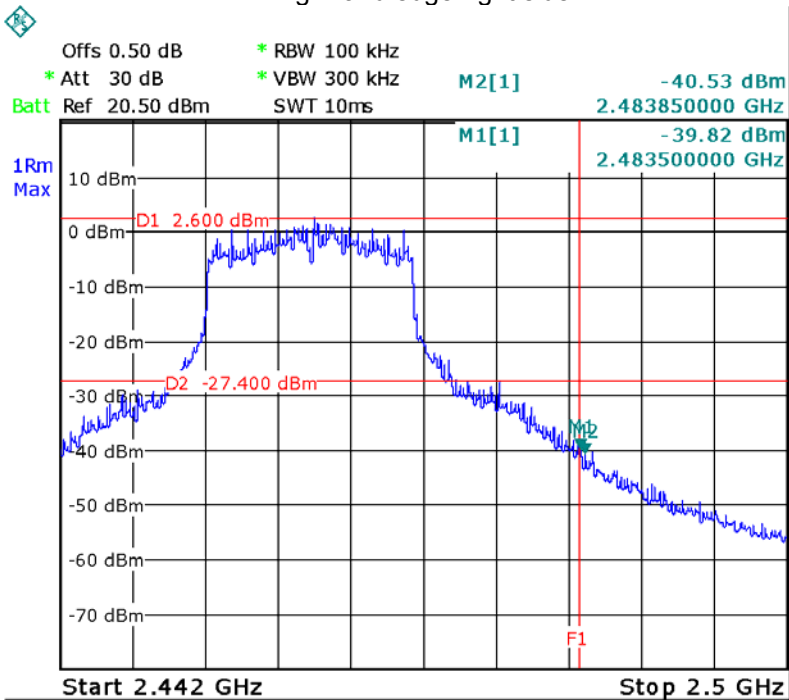
Test result plots shown as follows:

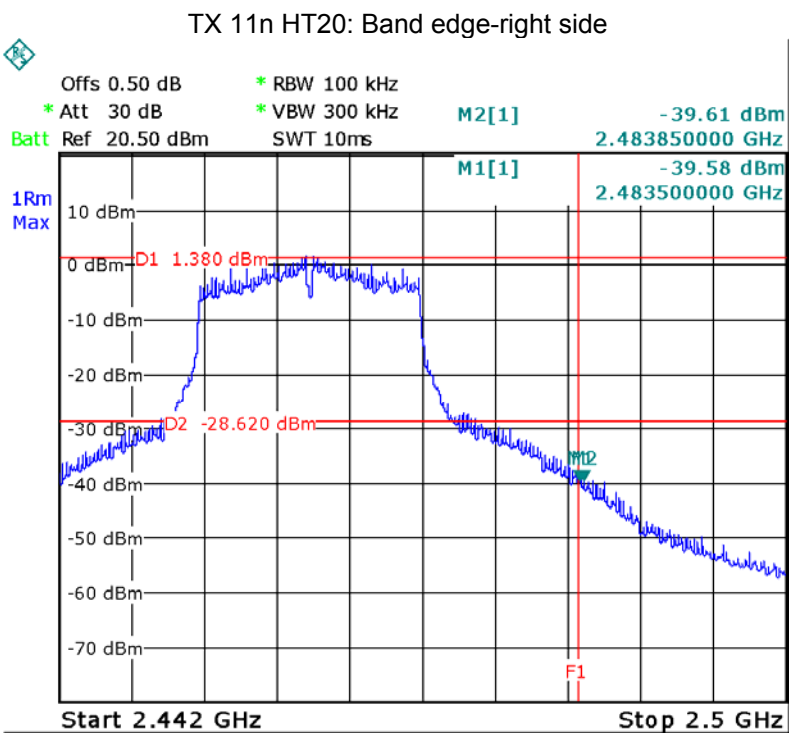
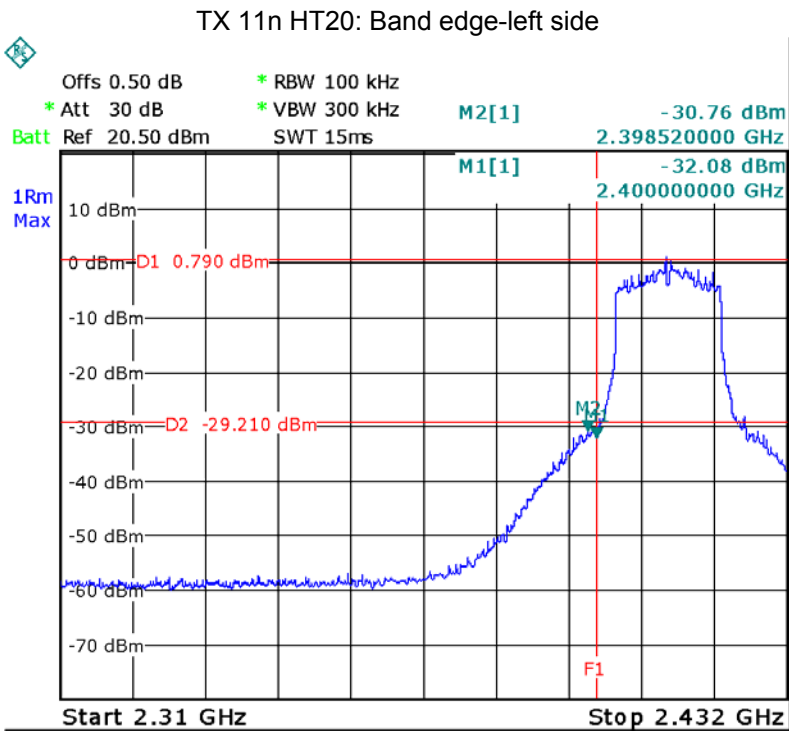


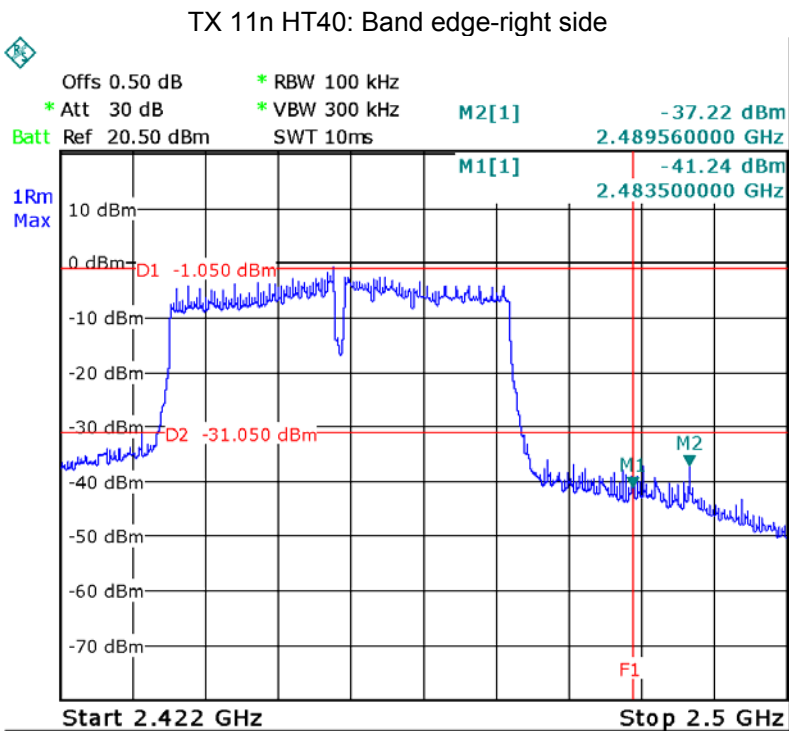
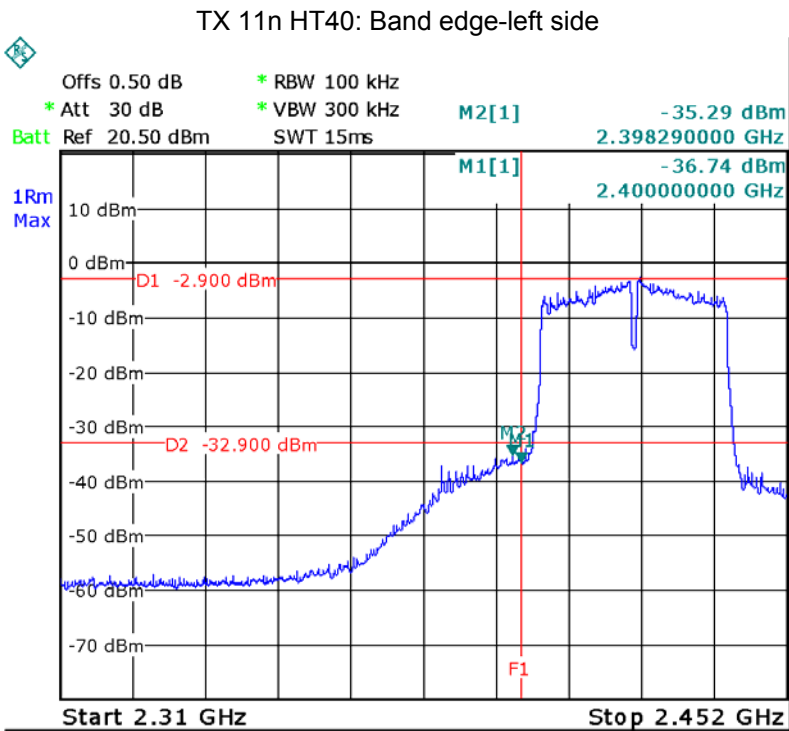
TX 11g: Band edge-left side



TX 11g: Band edge-right side







11 6 dB Bandwidth and 99% Bandwidth Measurement

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

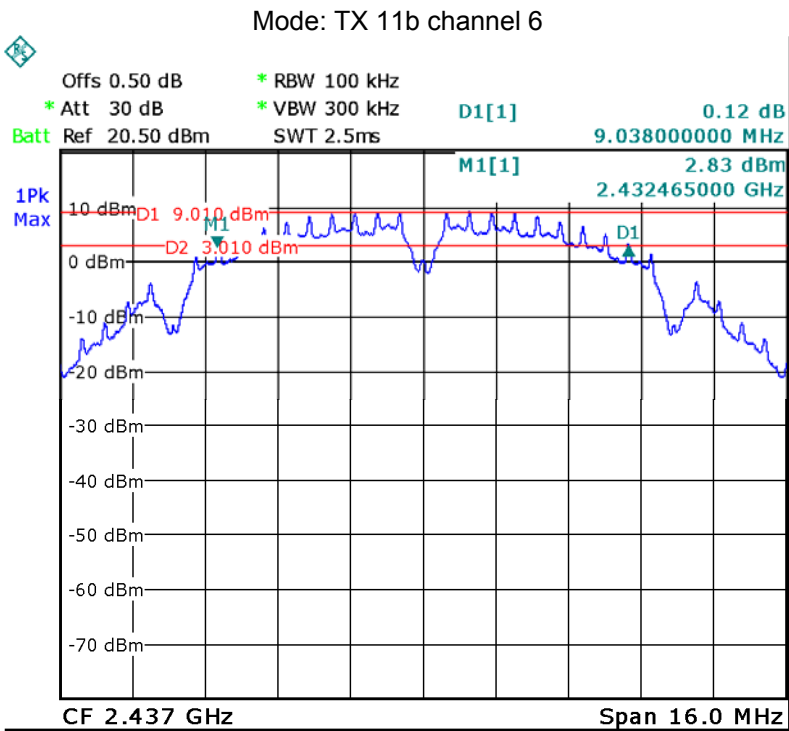
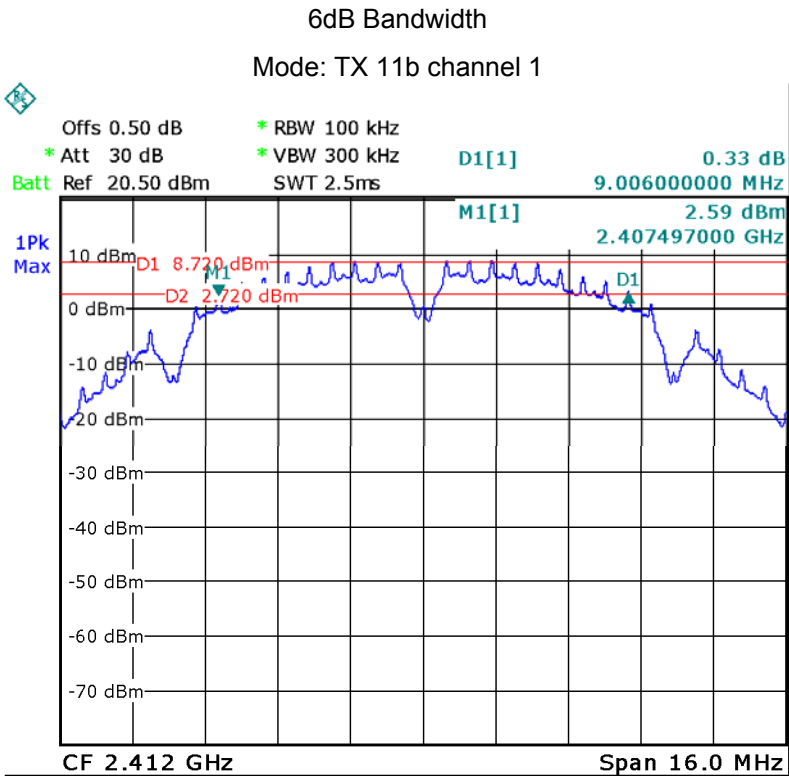
11.1 Test Procedure:

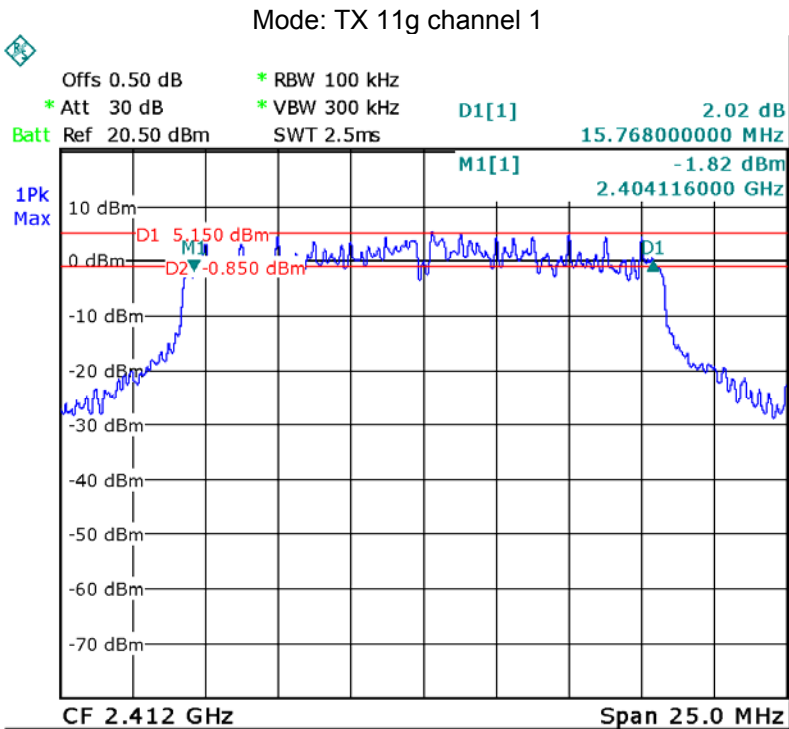
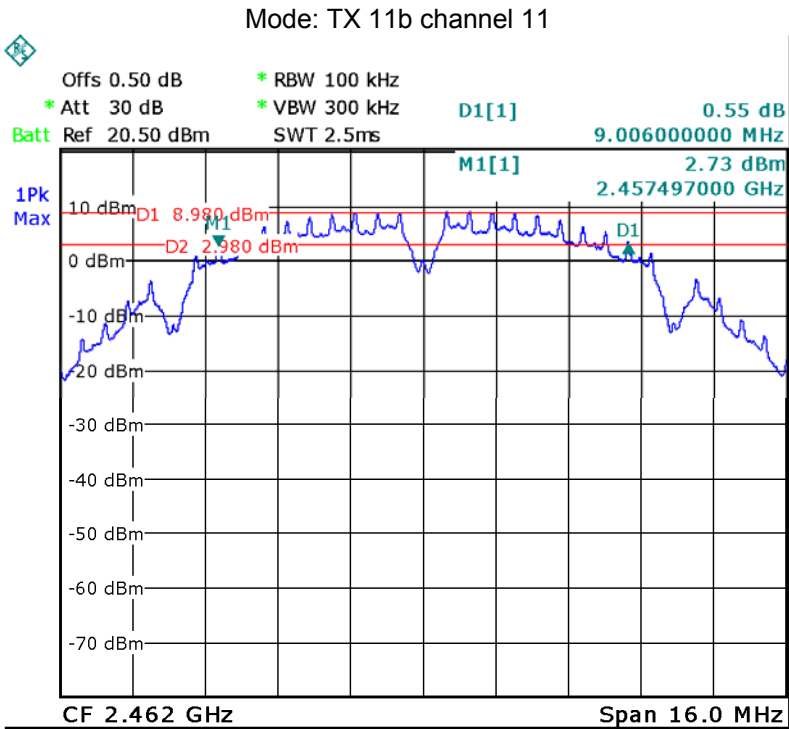
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

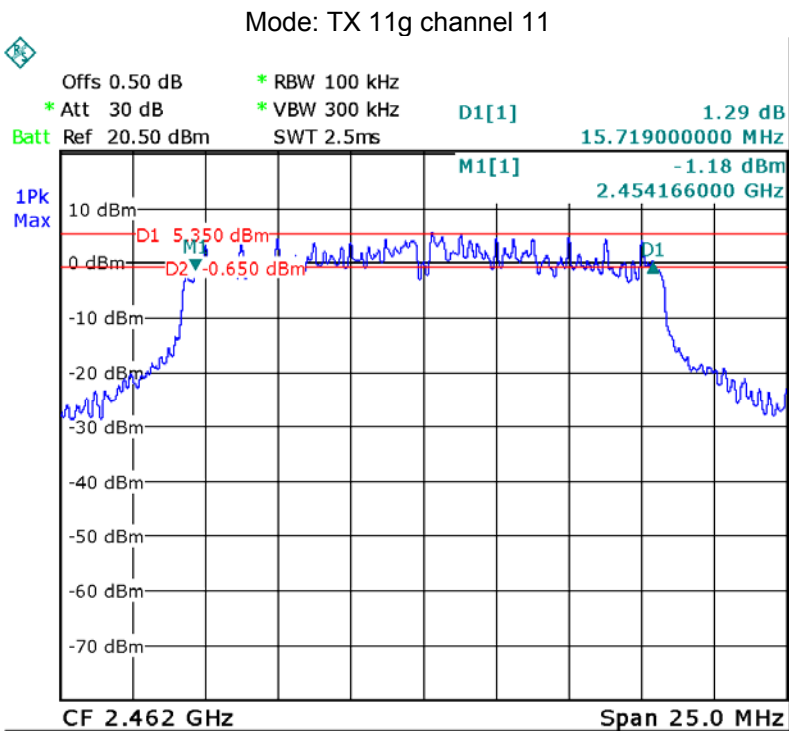
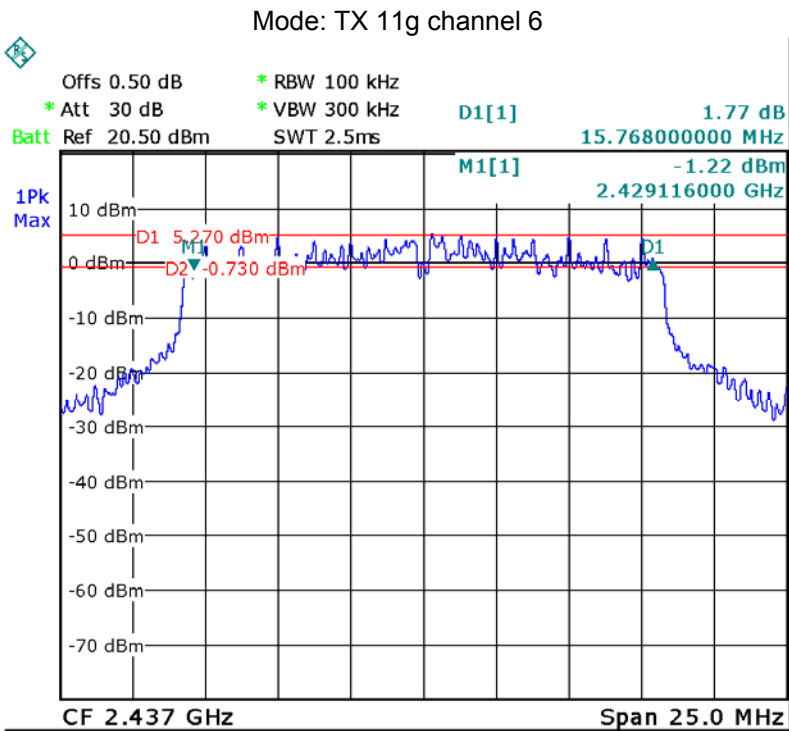
11.2 Test Result:

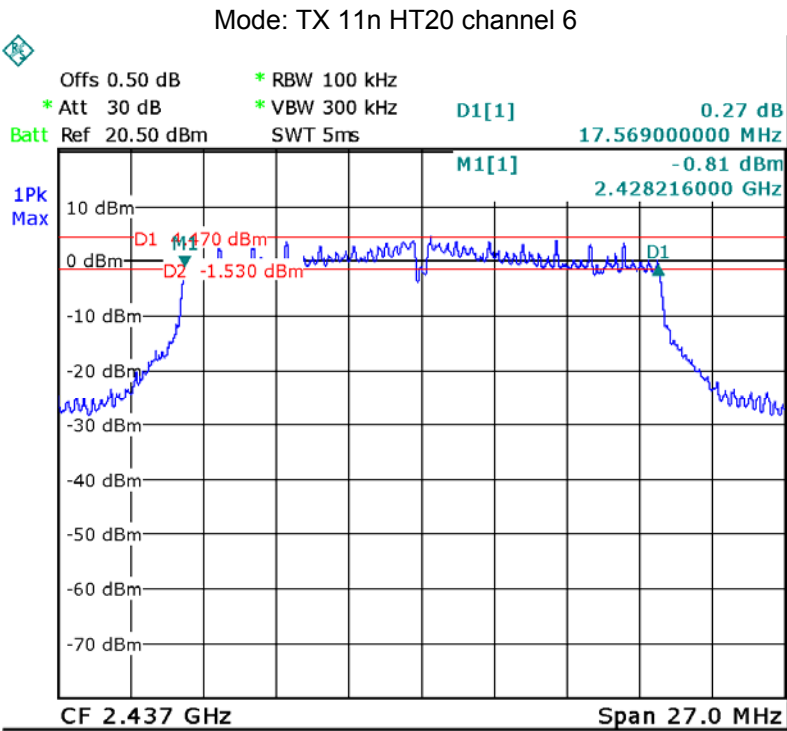
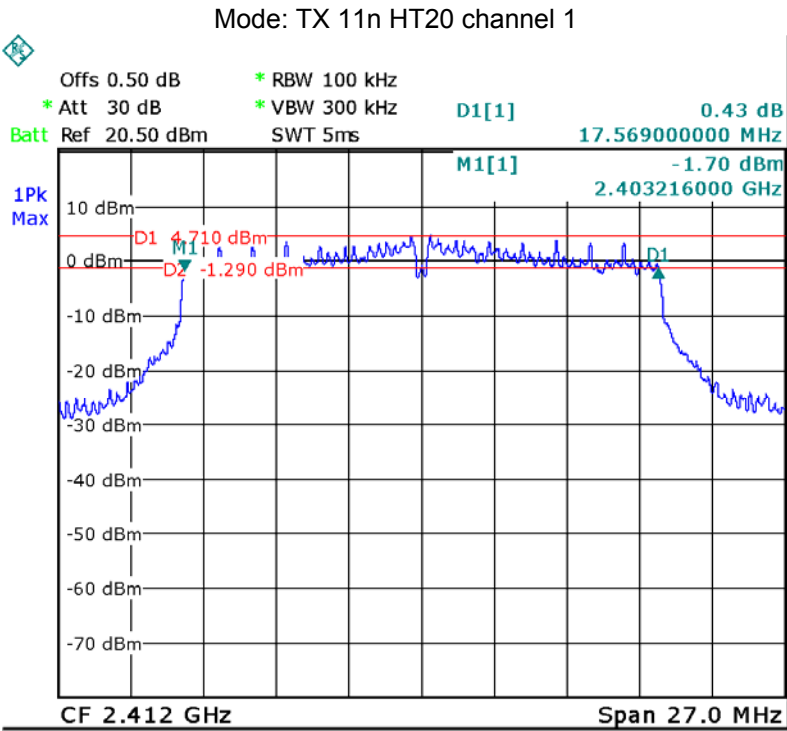
Operation mode	Test Channel	6dB Bandwidth (MHz)	99% Bandwidth (MHz)
TX 11b	Channel 1	9.006	11.976
	Channel 6	9.038	12.008
	Channel 11	9.006	12.008
TX 11g	Channel 1	15.768	16.617
	Channel 6	15.768	16.667
	Channel 11	15.719	16.617
TX 11n HT20	Channel 1	17.569	17.946
	Channel 6	17.569	17.946
	Channel 11	17.569	17.892
TX 11n HT40	Channel 3	36.340	36.557
	Channel 6	36.340	36.667
	Channel 9	36.450	36.667

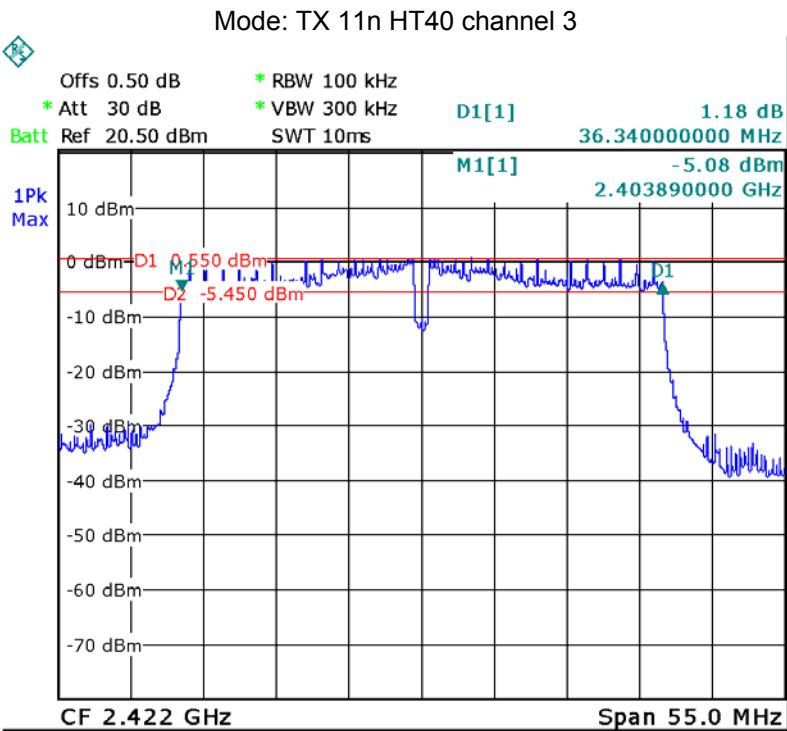
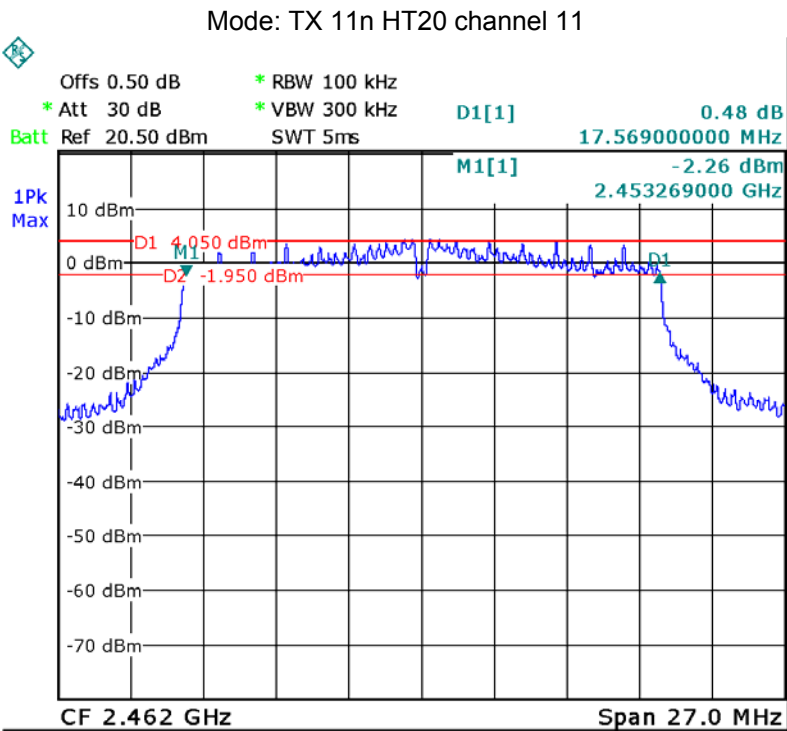
Test result plot:

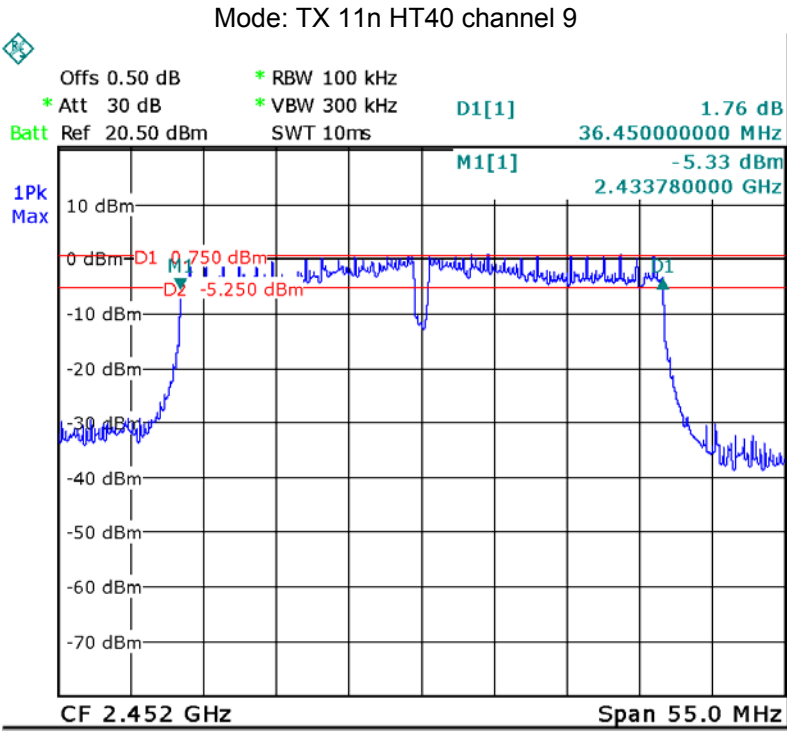
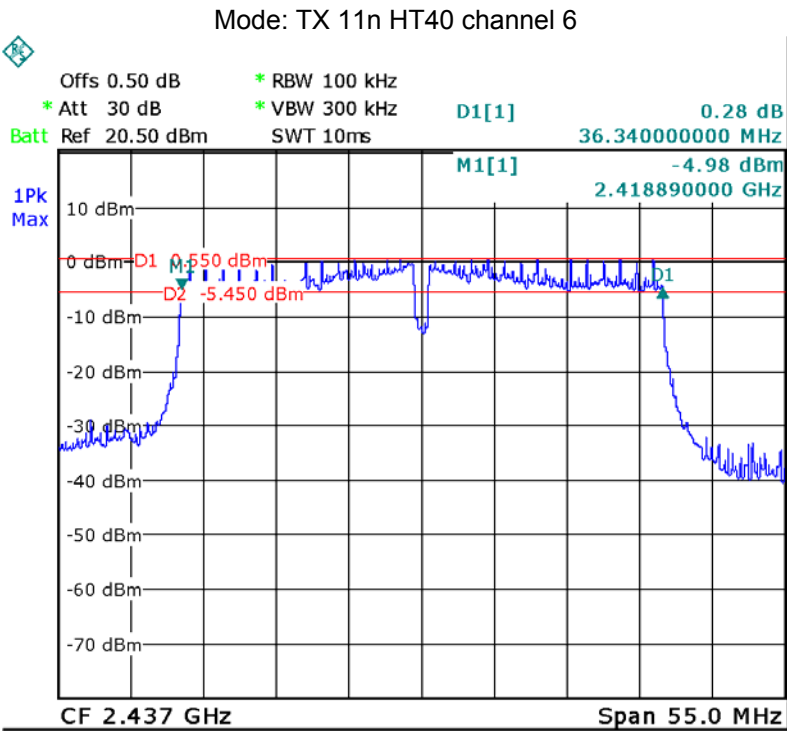


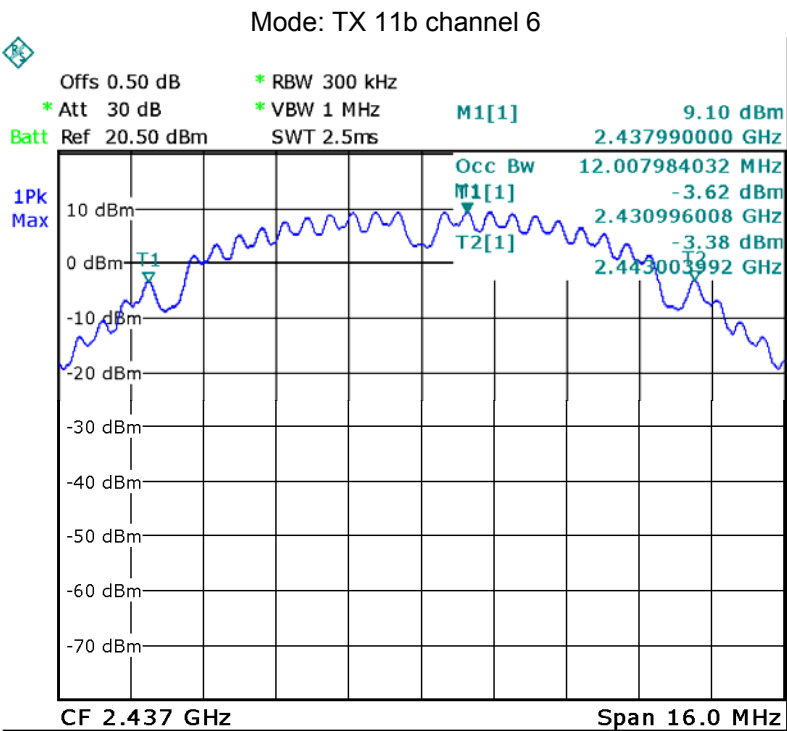
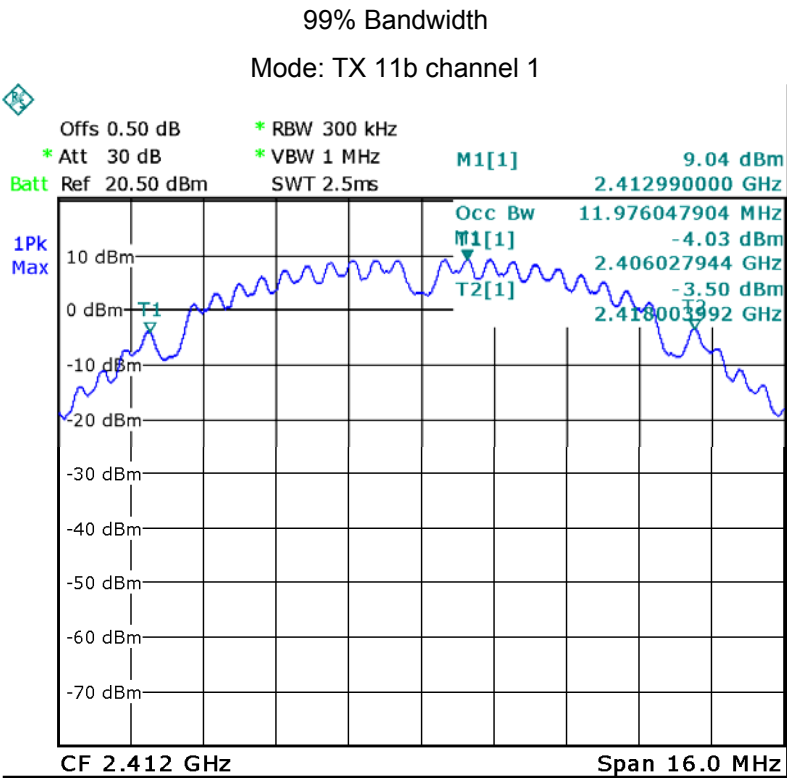


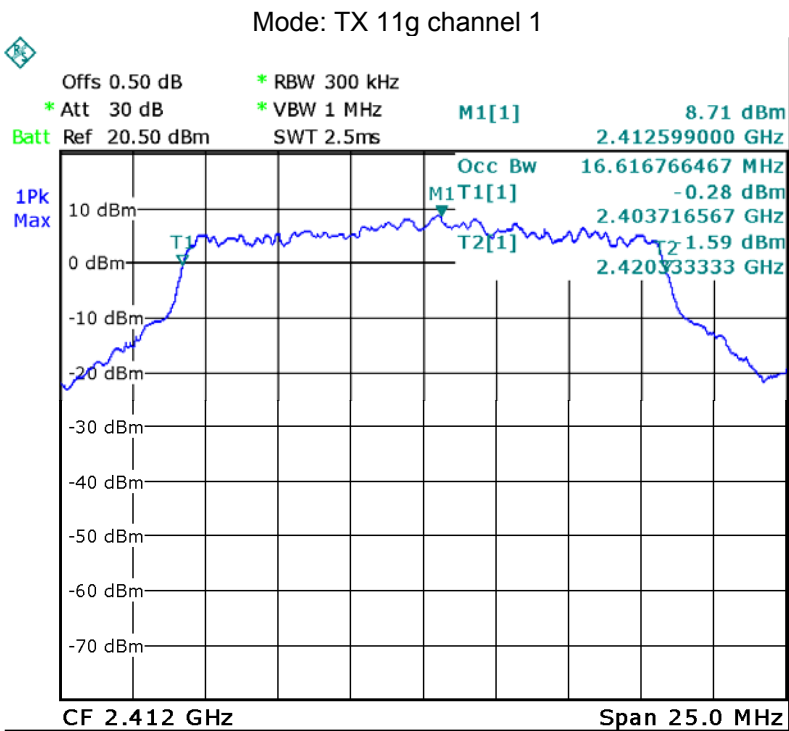
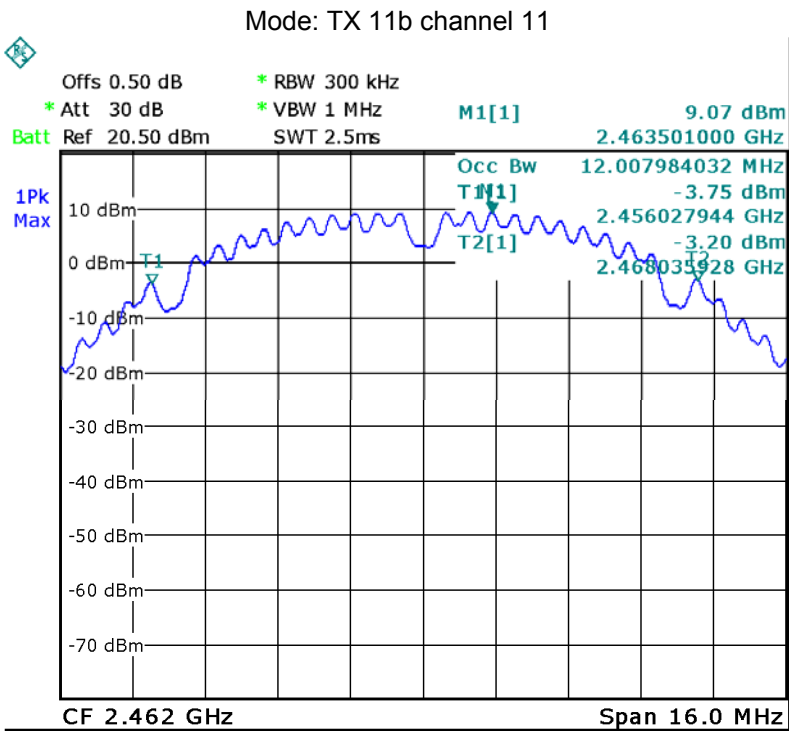


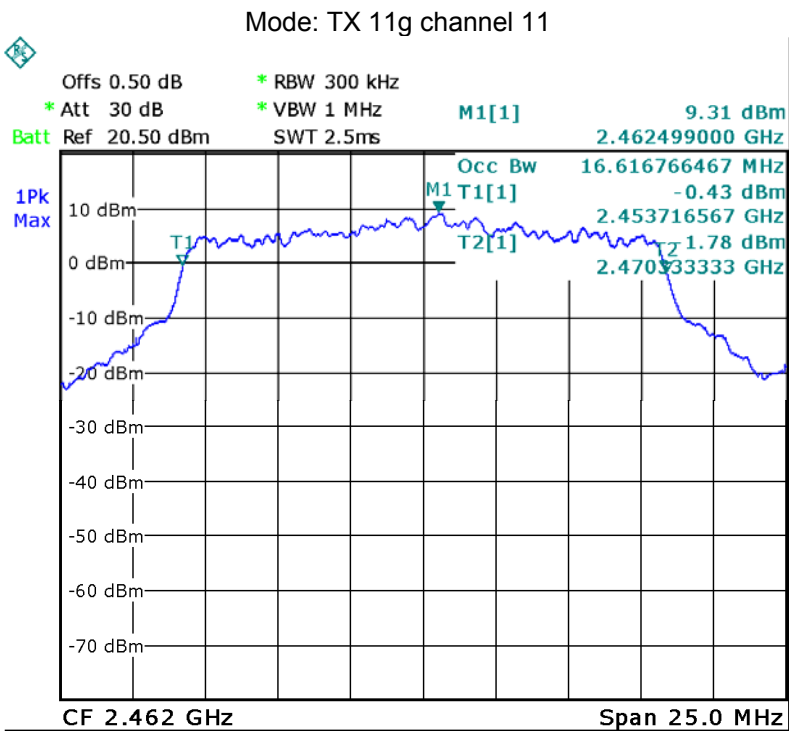
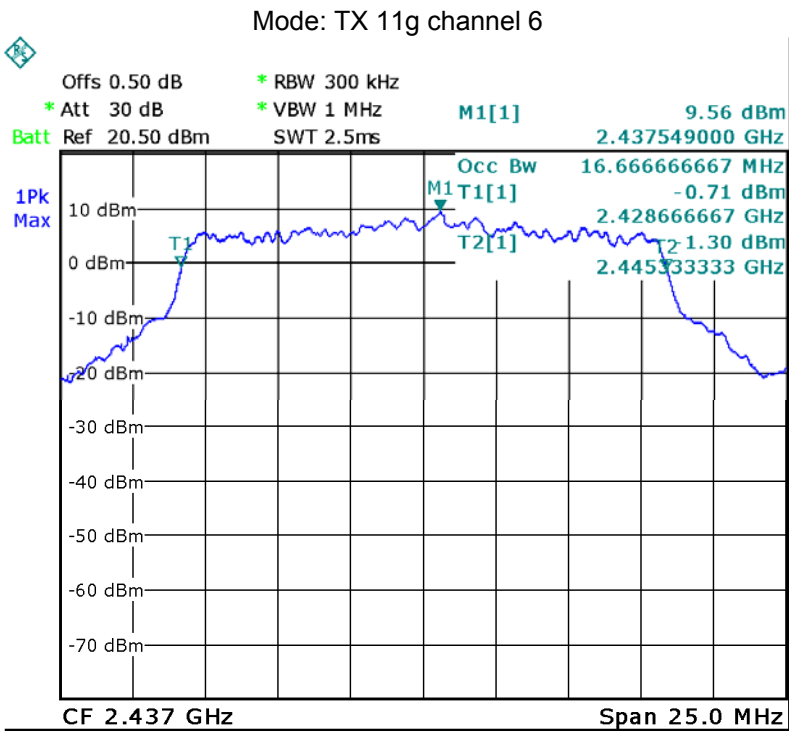


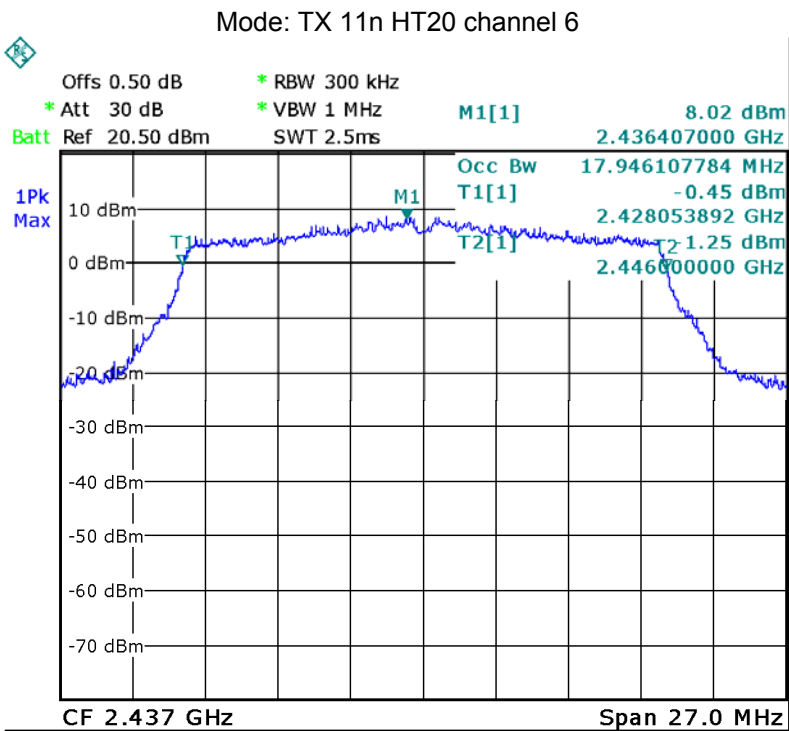
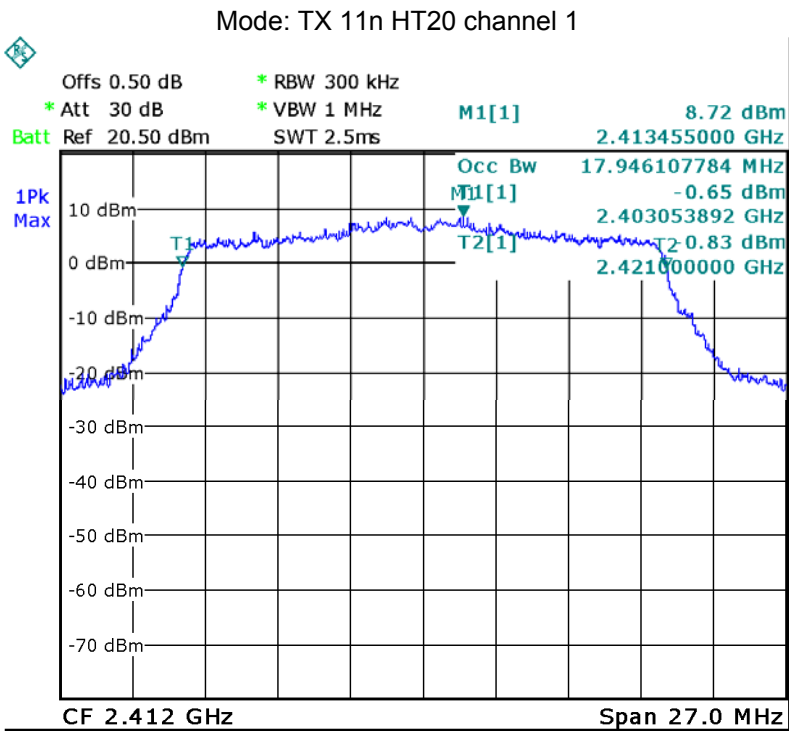


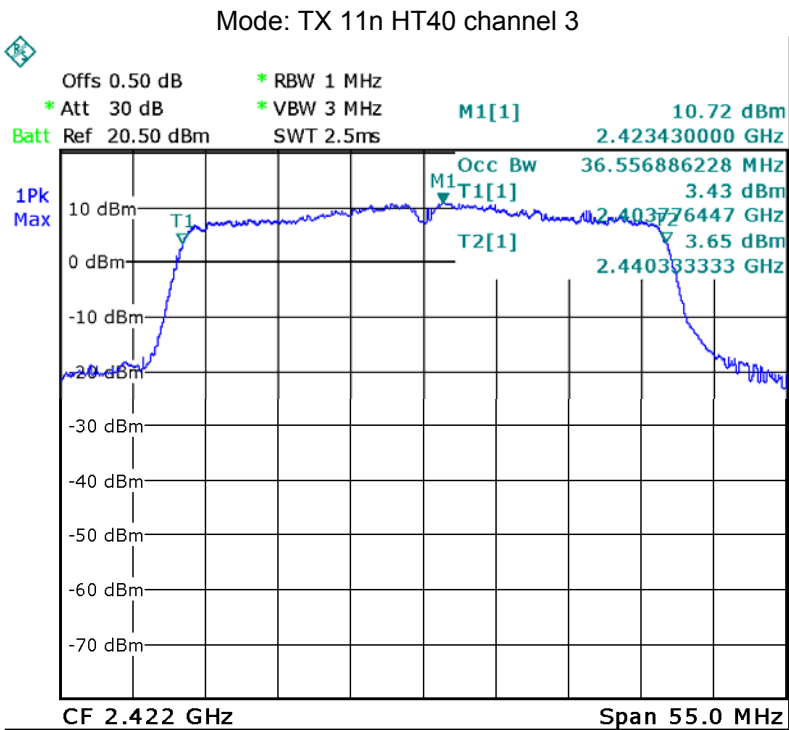
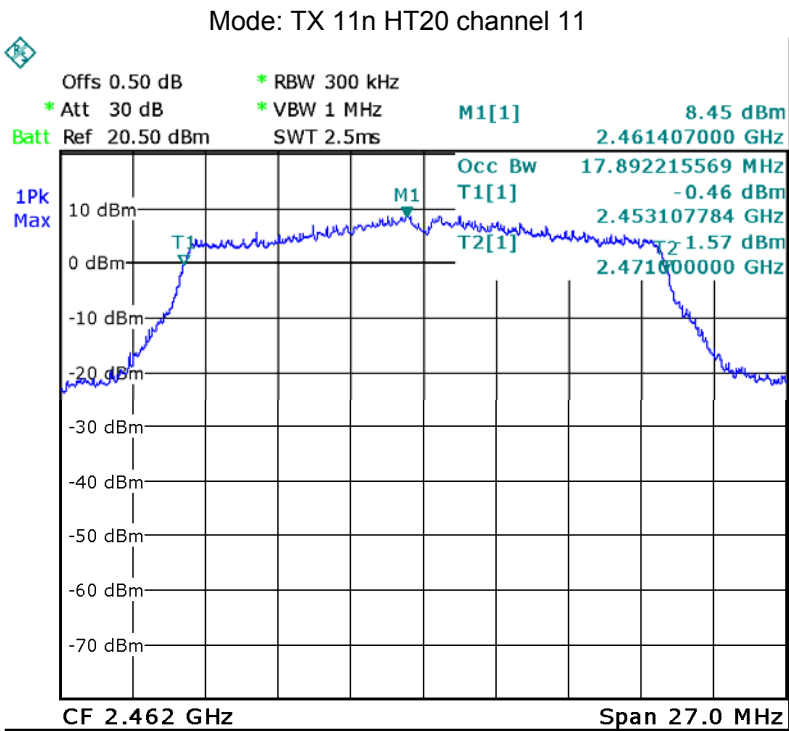


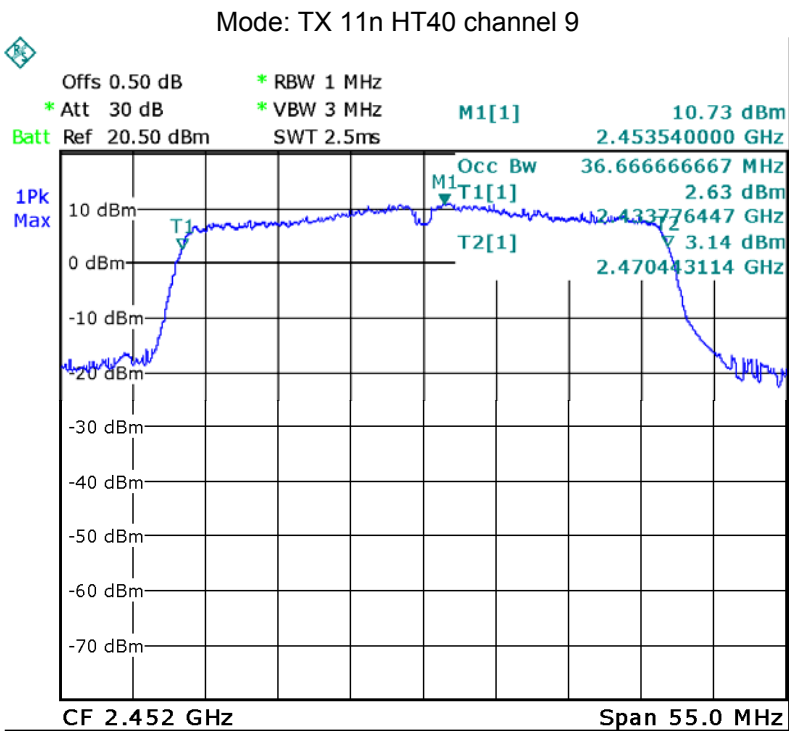
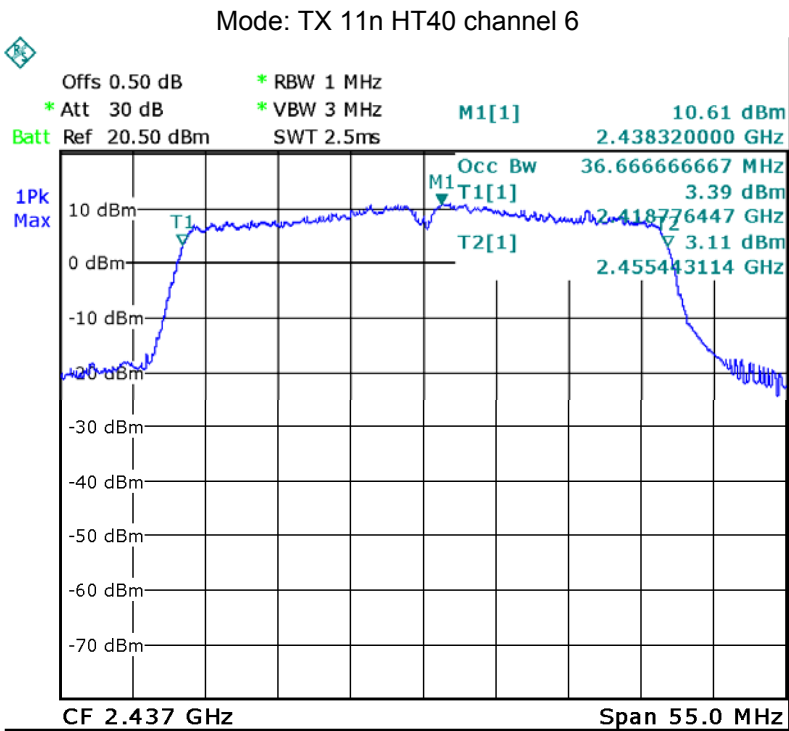












12 Maximum Peak conducted Output Power

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

12.1 Test Procedure:

KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019

section 8.3.1.1 (For BLE)

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

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

section 8.3.1.2 (For WIFI)

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

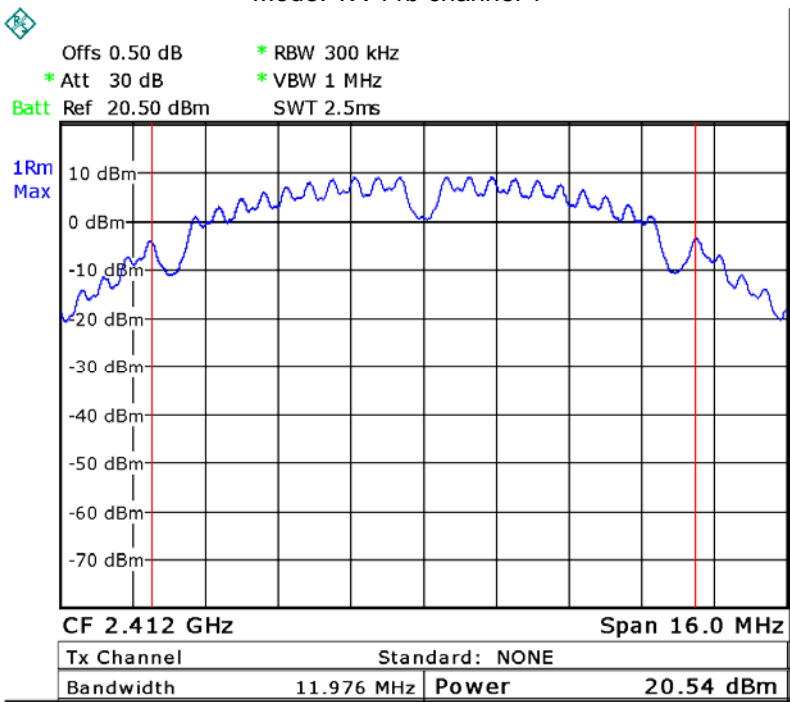
- a) Set the $RBW = 1\%$ to 5% of the OBW, not to exceed 1 MHz..
- b) Set the $VBW \geq 3 \times RBW$
- c) Set the $span \geq 1.5 \times OBW$.
- d) Detector = RMS.
- e) Sweep time = auto couple.
- f) trigger = free run..
- g) Number of points in sweep $\geq [2 \times span / RBW]$. (This gives bin-to-bin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

12.2 Test Result:

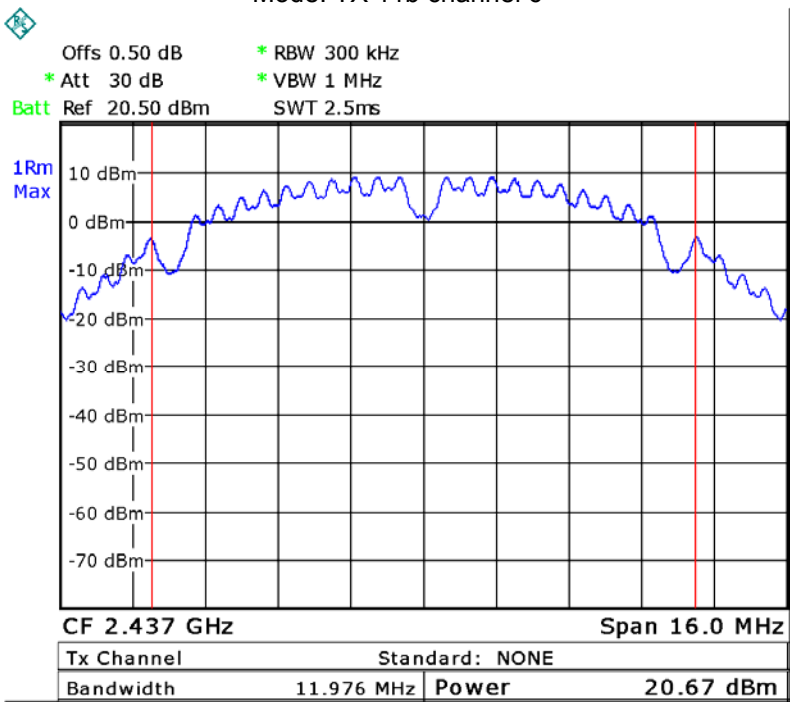
Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
TX 11b	Low-2412	20.54	1W/30dBm
	Middle-2437	20.67	1W/30dBm
	High-2462	20.67	1W/30dBm
TX 11g	Low-2412	20.18	1W/30dBm
	Middle-2437	20.25	1W/30dBm
	High-2462	20.26	1W/30dBm
TX 11n HT20	Low-2412	19.40	1W/30dBm
	Middle-2437	19.51	1W/30dBm
	High-2462	19.73	1W/30dBm
TX 11n HT40	Low-2422	17.75	1W/30dBm
	Middle-2437	17.52	1W/30dBm
	High-2452	17.66	1W/30dBm

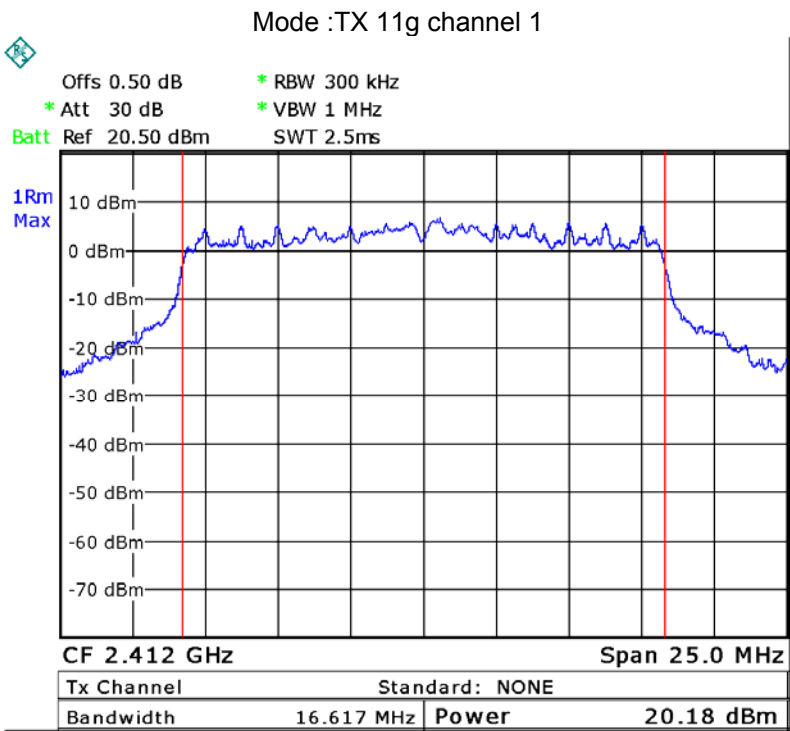
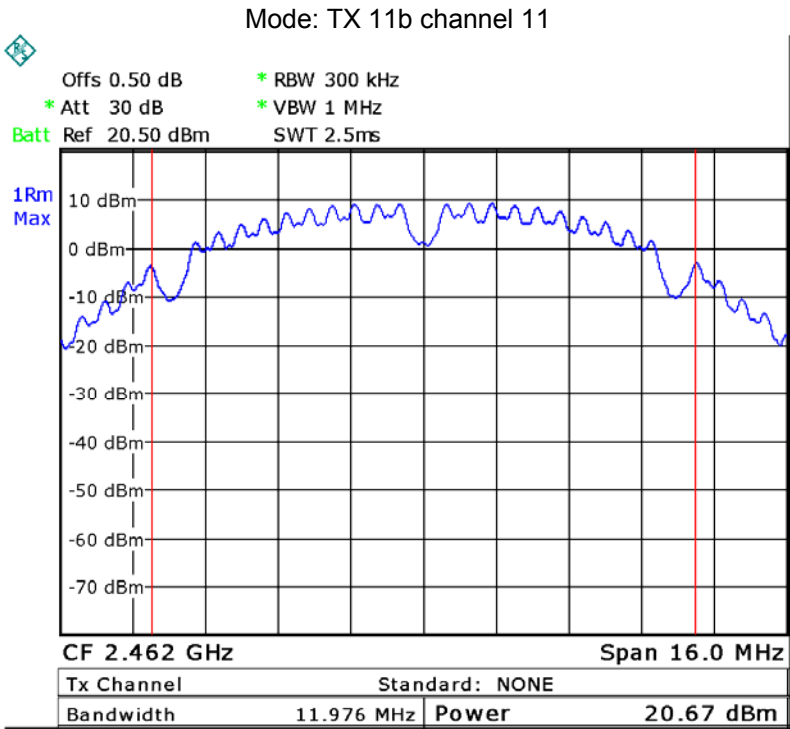
Test Plot

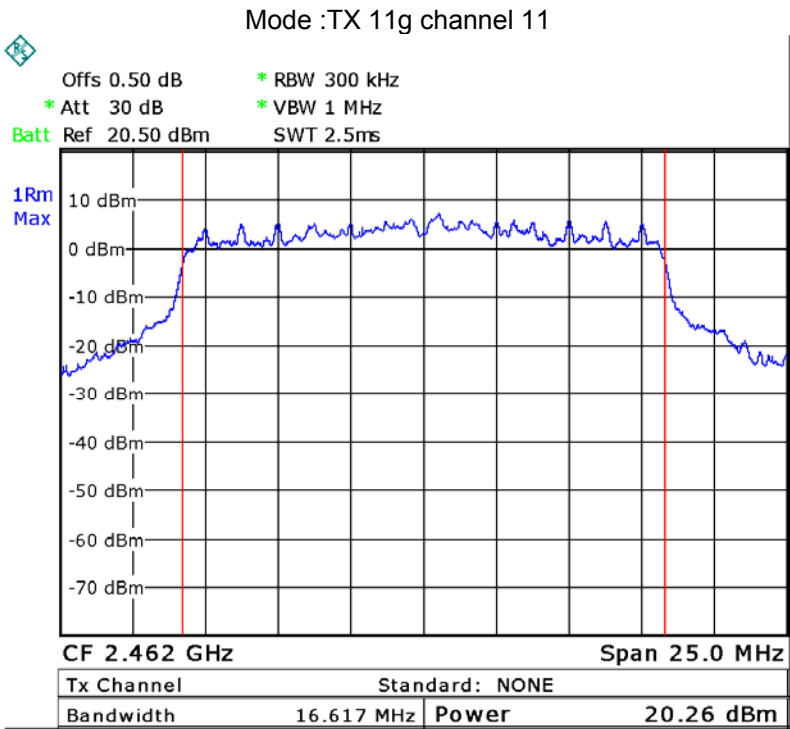
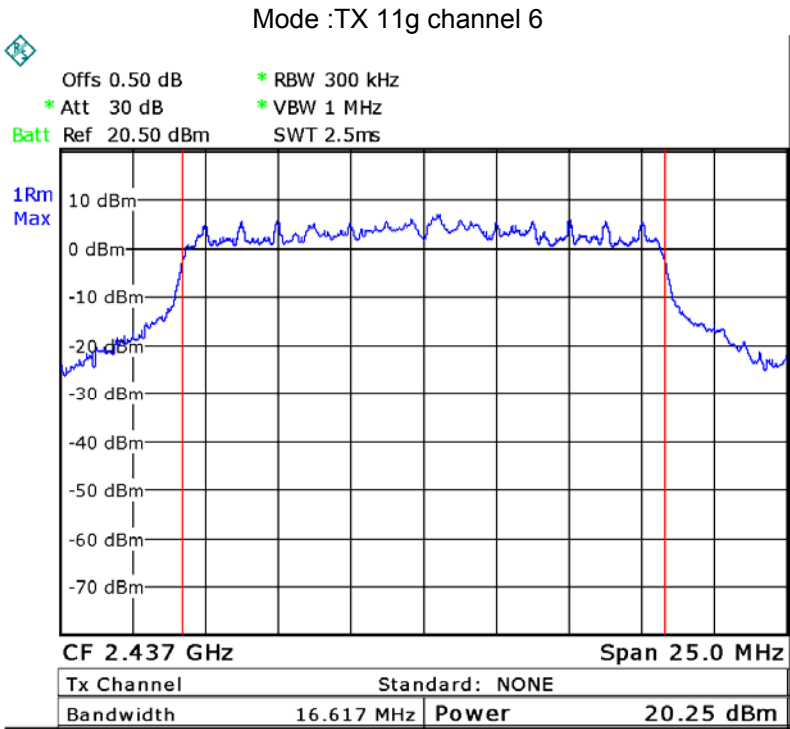
Mode: TX 11b channel 1

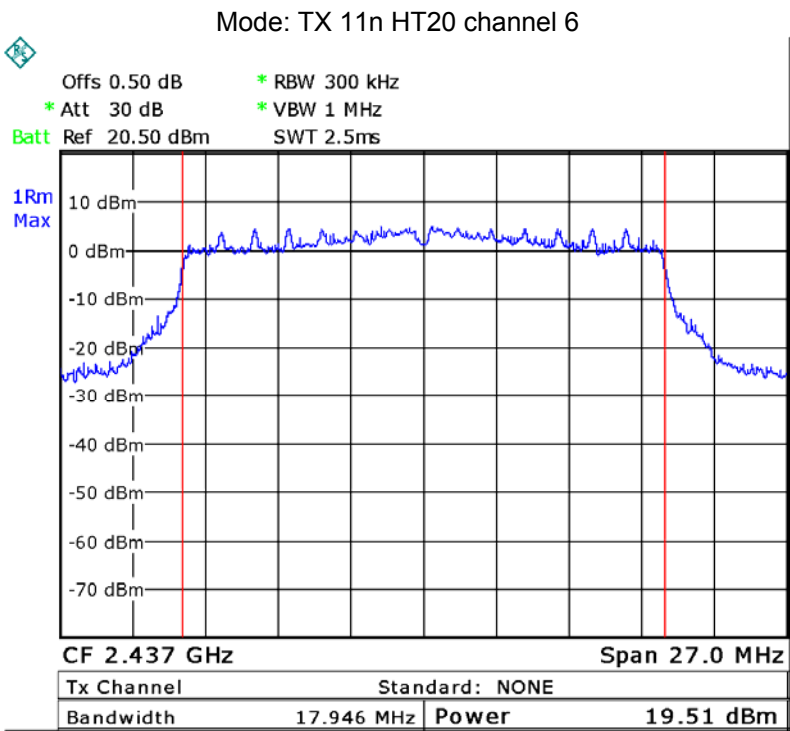
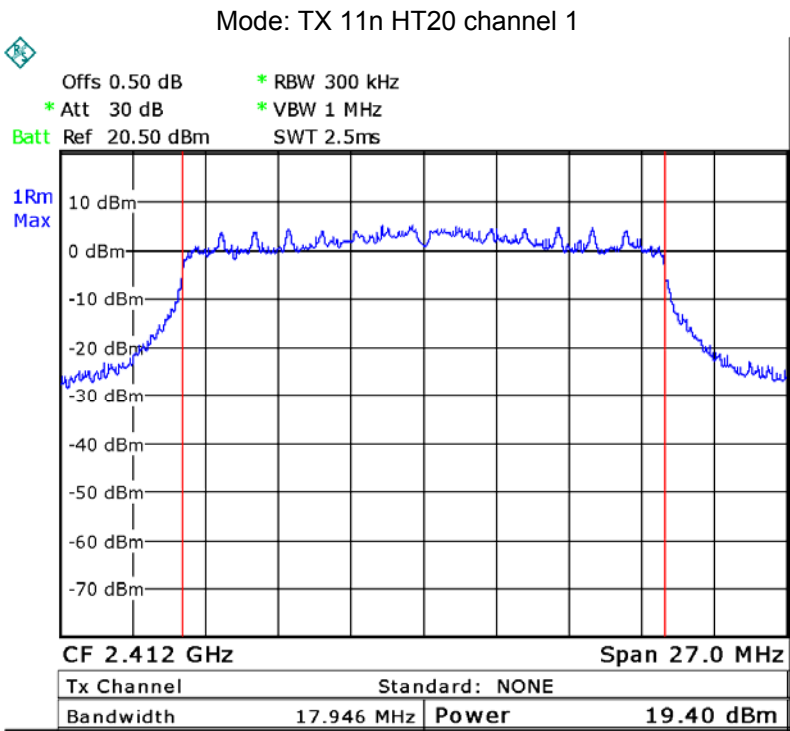


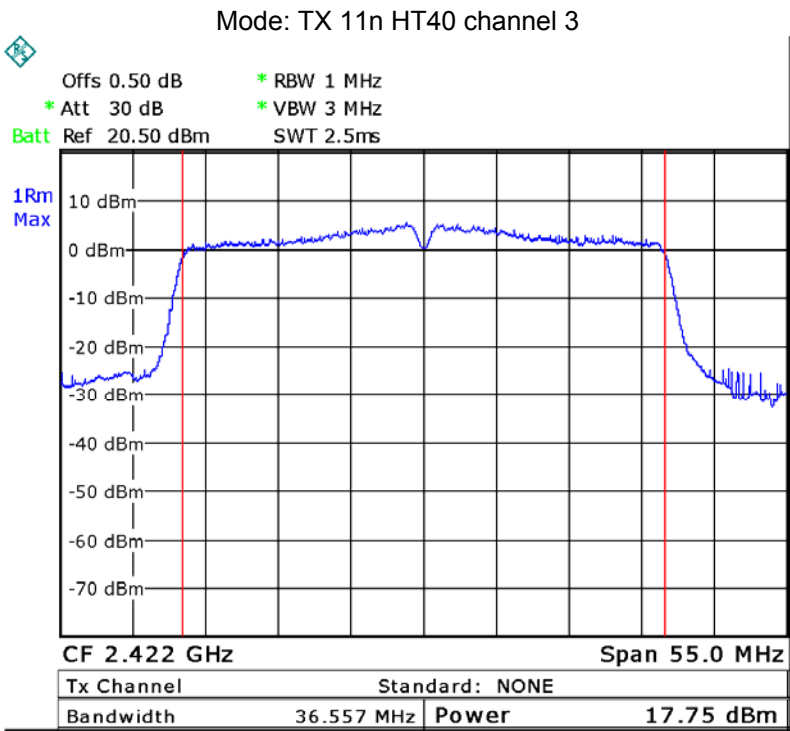
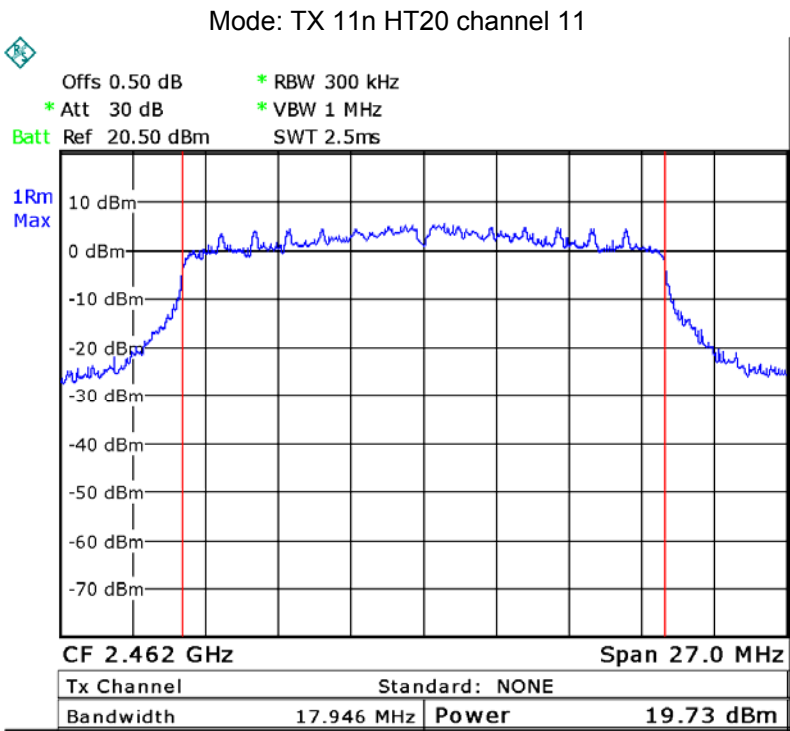
Mode: TX 11b channel 6

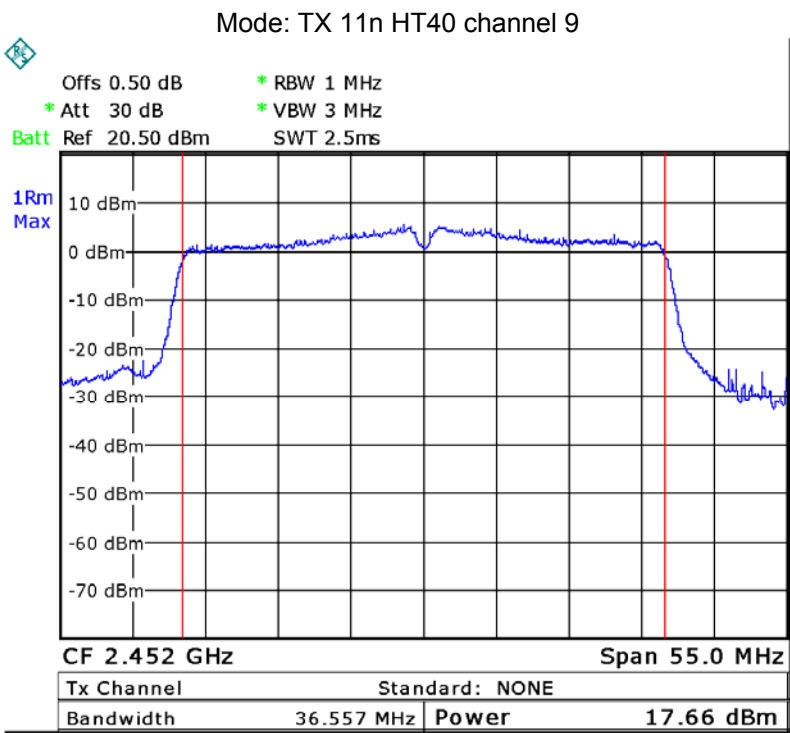
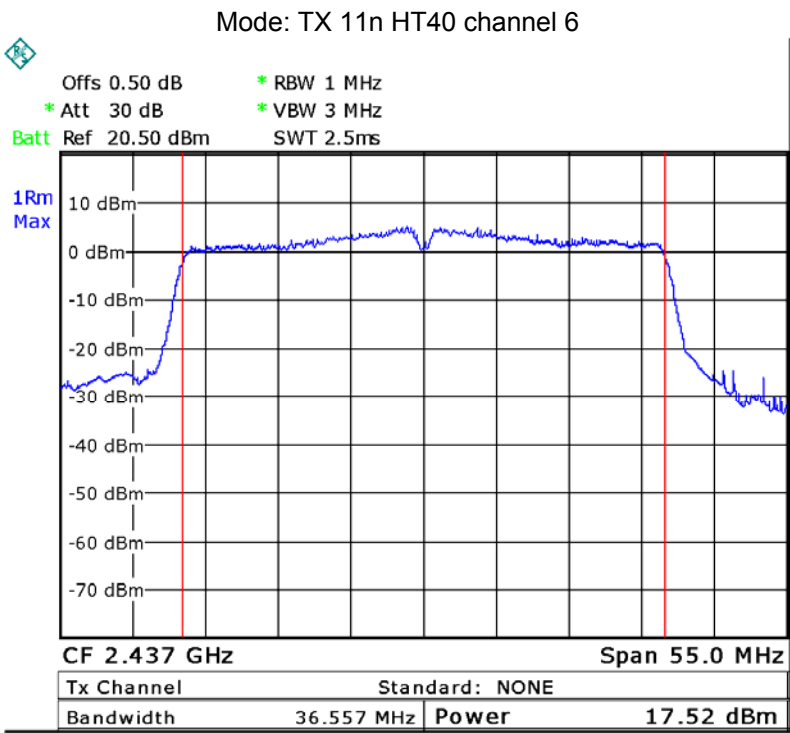












13 Duty cycle

Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	ANSI C63.10: 2013
Test Limit:	N/A
Test Result:	PASS
Remark:	EUT transmitting continuously

14 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019;
ANSI C63.10:2013

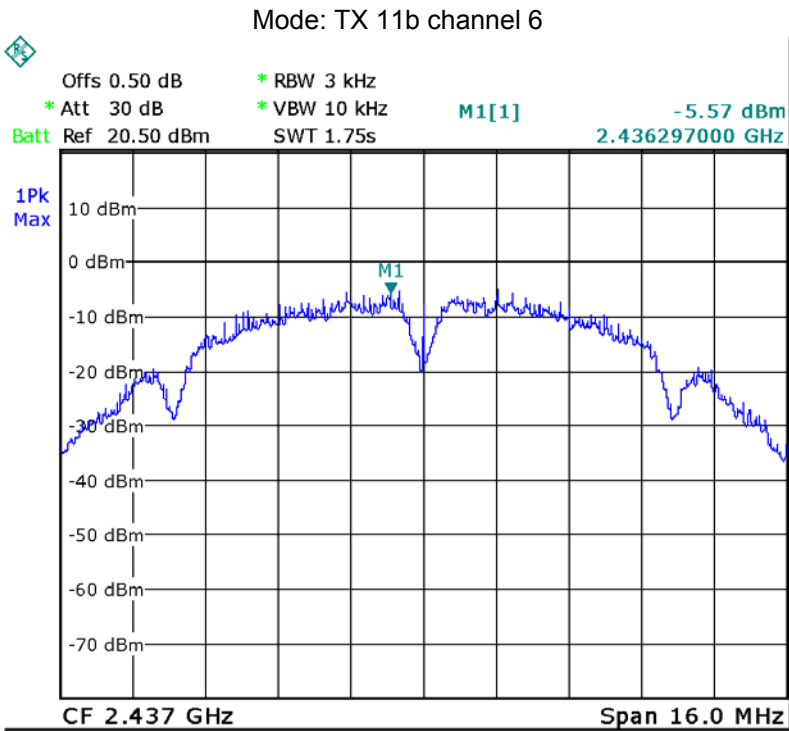
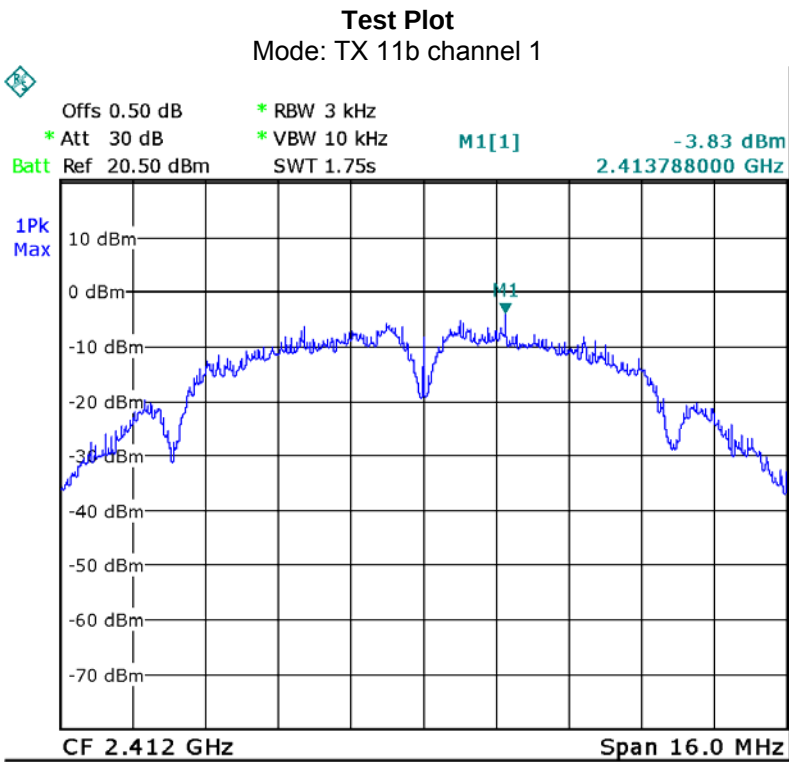
14.1 Test Procedure:

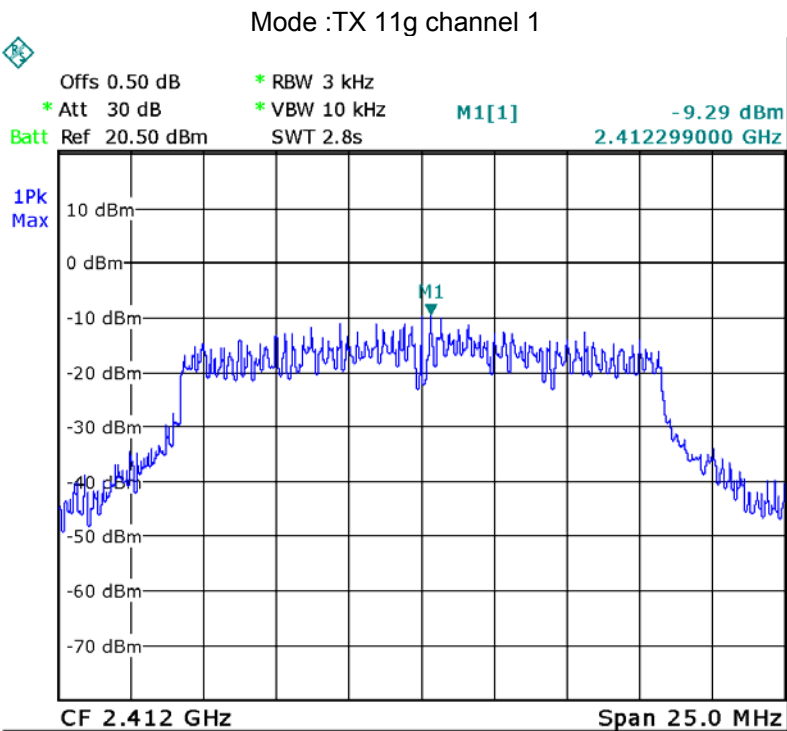
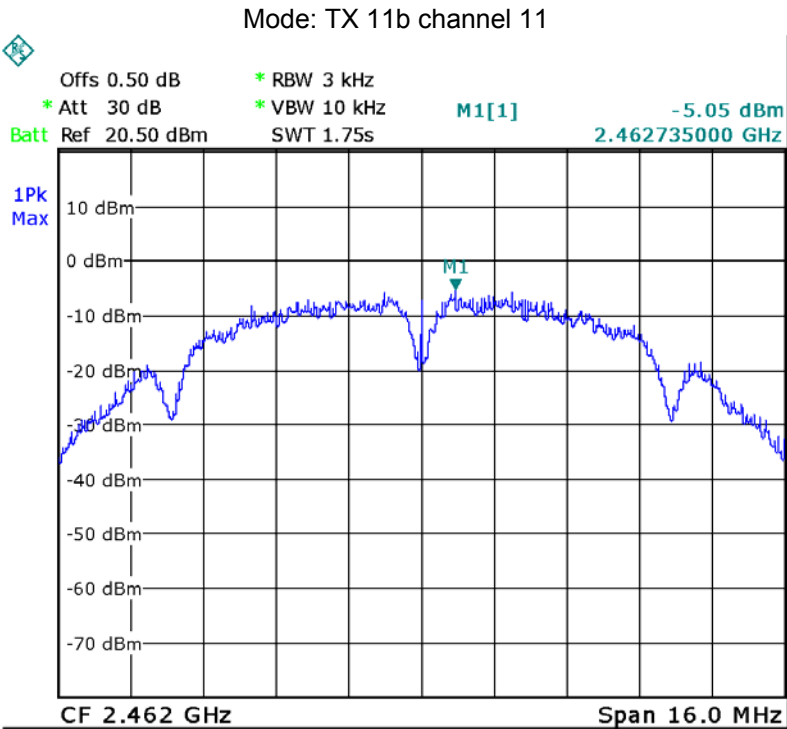
KDB 558074 D01 15.247 Meas Guidance v05r02 April 2, 2019 section 10.2

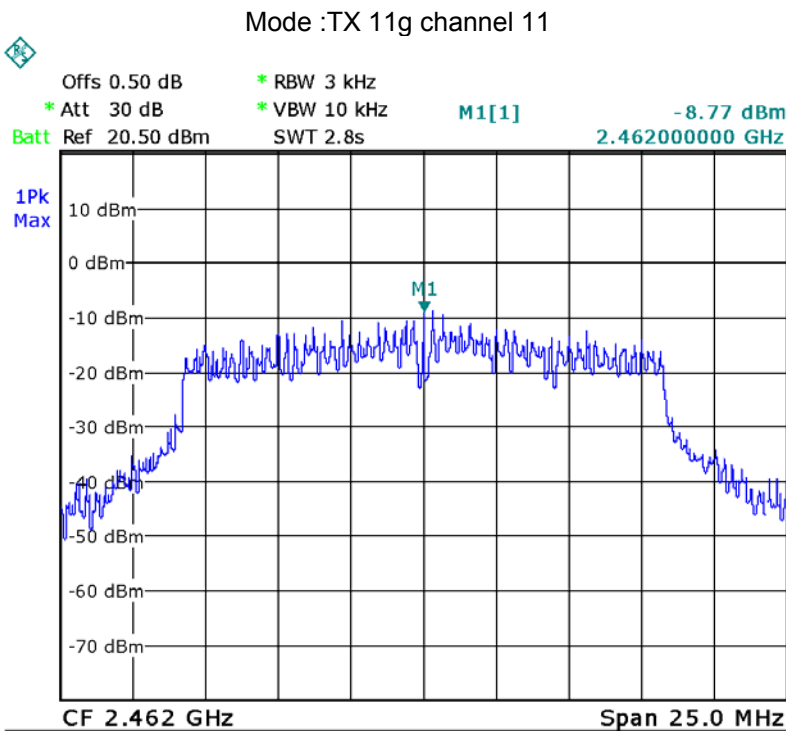
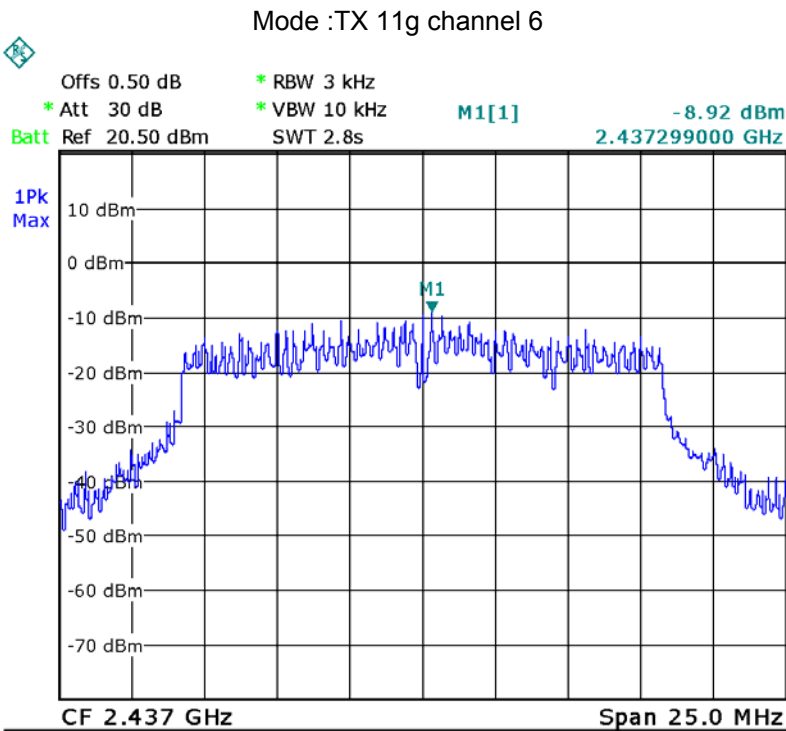
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to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

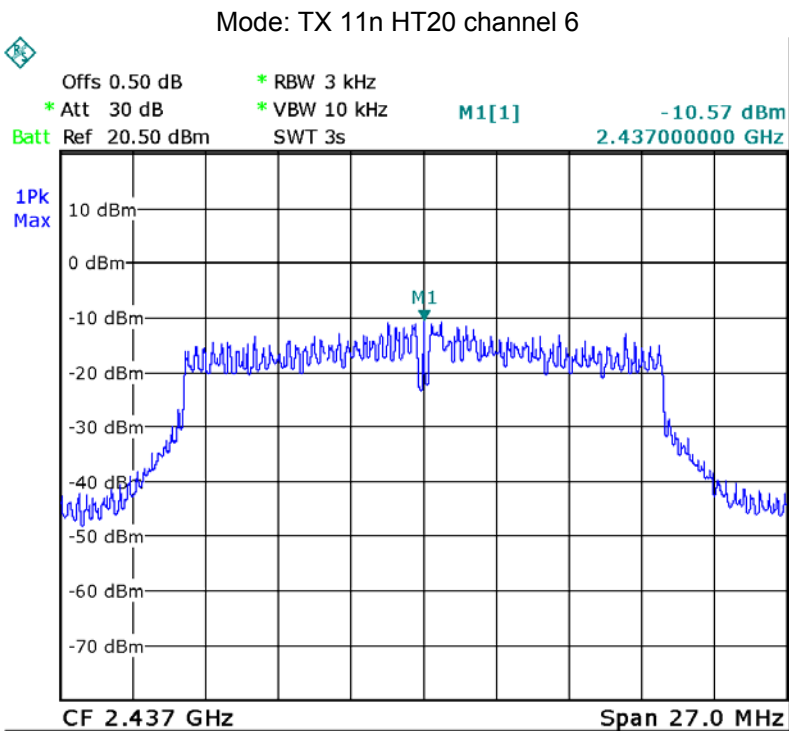
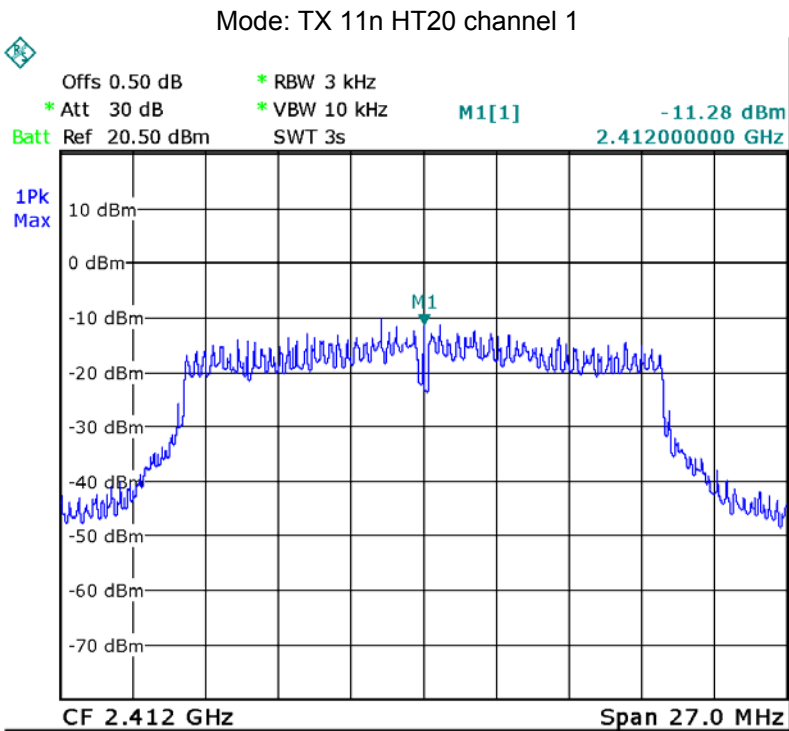
14.2 Test Result:

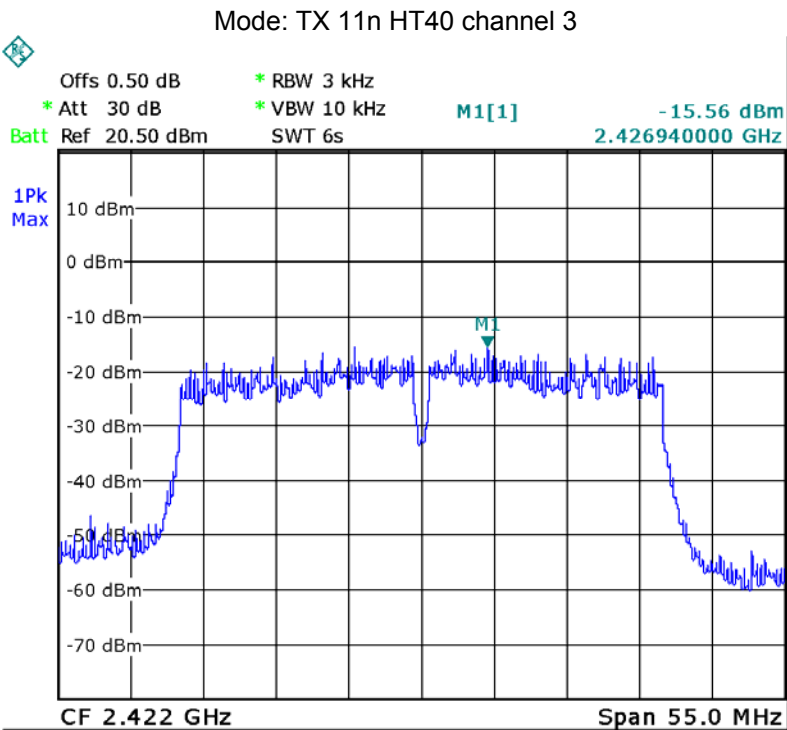
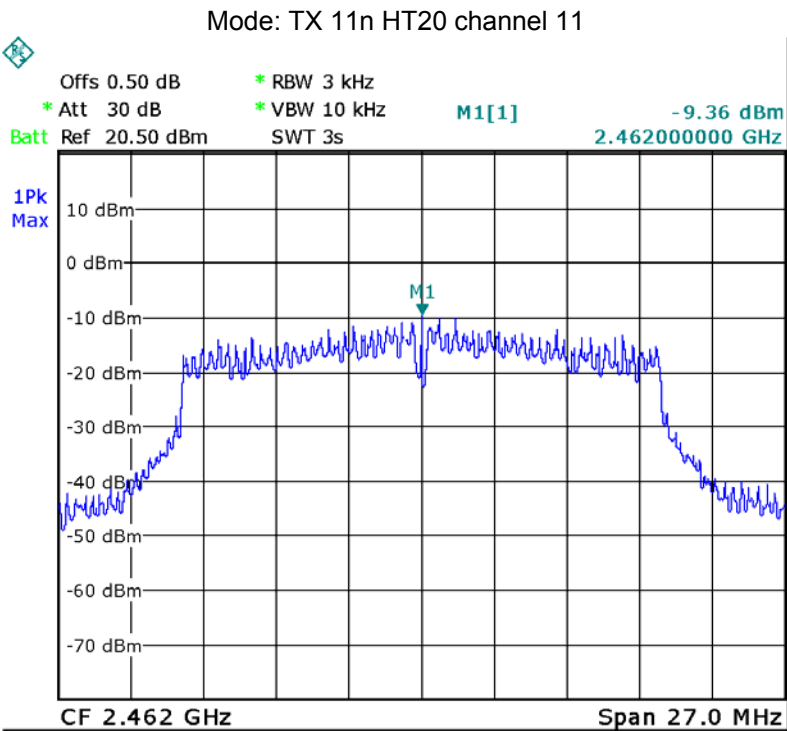
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
TX 11b	Low-2412	-3.83	8dBm per 3kHz
	Middle-2437	-5.57	8dBm per 3kHz
	High-2462	-5.05	8dBm per 3kHz
TX 11g	Low-2412	-9.29	8dBm per 3kHz
	Middle-2437	-8.92	8dBm per 3kHz
	High-2462	-8.77	8dBm per 3kHz
TX 11n HT20	Low-2412	-11.28	8dBm per 3kHz
	Middle-2437	-10.57	8dBm per 3kHz
	High-2462	-9.36	8dBm per 3kHz
TX 11n HT40	Low-2422	-15.56	8dBm per 3kHz
	Middle-2437	-15.58	8dBm per 3kHz
	High-2452	-15.98	8dBm per 3kHz

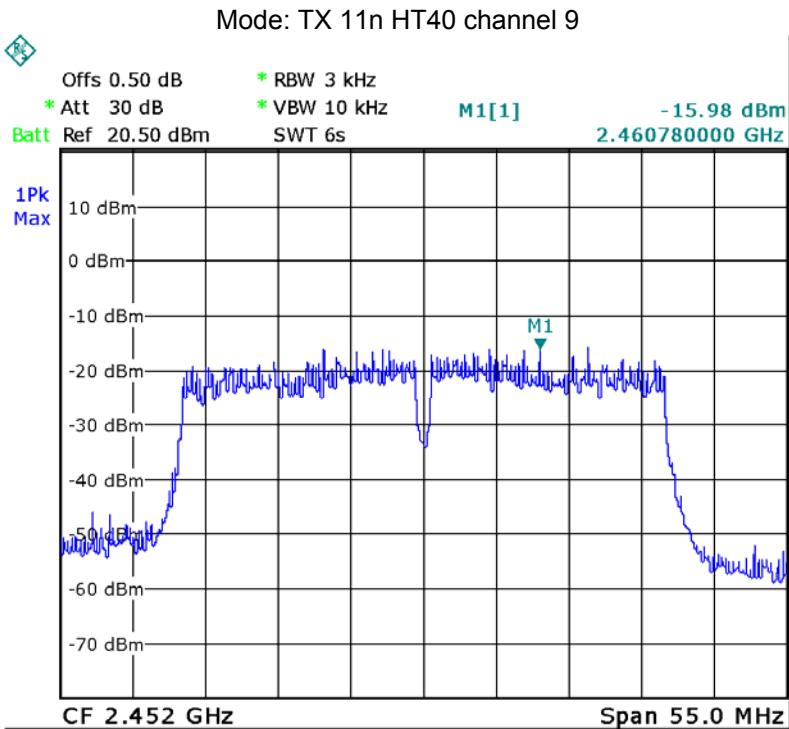
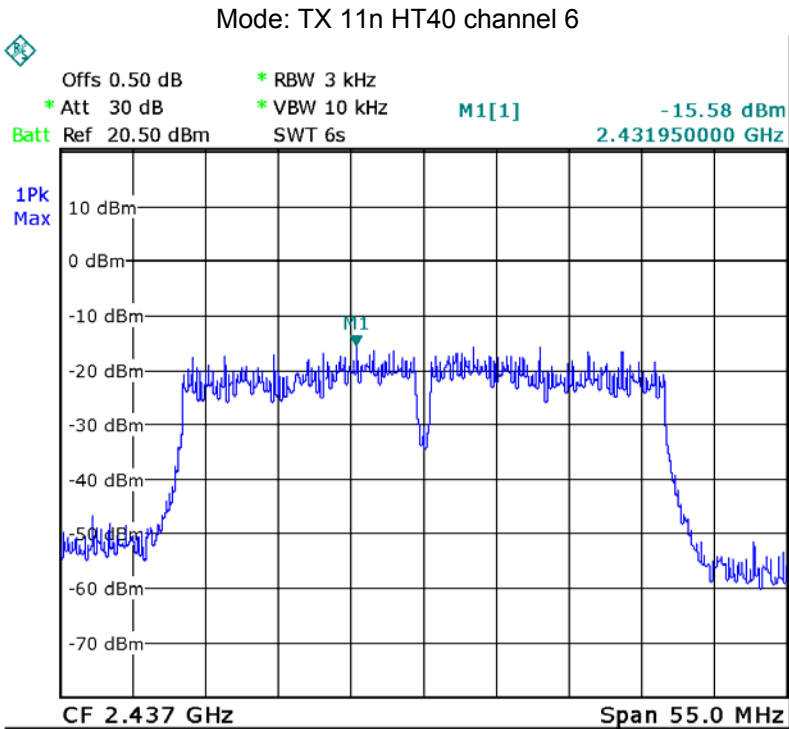












15 Antenna Requirement

According to the FCC Part 15 Paragraph 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. This product has an integrated antenna fulfill the requirement of this section.

16 RF Exposure

Remark: refer to MPE report: WTF19S12088767W005.

17 Photographs of test setup and EUT.

Note: Please refer to appendix: Appendix-Q25-Photos.

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