

TEST REPORT

Reference No..... : WTS17S0681754-1E
FCC ID : GVQS008
Applicant..... : Skyroam Technology Co., Ltd.
Address..... : BLK F, Room 710-717 Xihaimingzhu Building, Taoyuan
Guangdong, Shenzhen, China
Manufacturer : The same as above
Address..... : The same as above
Product Name..... : Skyroam Solis
Model No..... : S008
Brand..... : Skyroam
Standards..... : FCC CFR47 Part 15.247:2016
Date of Receipt sample : Jun. 12, 2017
Date of Test : Jun. 12 –Jul. 05, 2017
Date of Issue..... : Jul. 06, 2017
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 Laboratories Introduction

Waltek Services Test Group Ltd is a professional third-party testing and certification organization with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by CNAS (China National Accreditation Service for Conformity Assessment) AQSIIQ, CMA and IECEE for CBTL. 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), CPSC(Consumer Product Safety Commission), CEC(California energy efficiency), IC(Industry Canada) and ELI(Efficient Lighting Initiative). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as UL, Intertek(ETL-SEMKO), CSA, TÜV Rheinland, TÜV SÜD, etc.



Waltek Services Test Group Ltd. is one of the largest and the most comprehensive third party testing organizations in China, our headquarter located in Shenzhen and have branches in Foshan, Dongguan, Zhongshan, Suzhou, Ningbo and Hong Kong, Our test capability covered four large fields: safety test. ElectroMagnetic Compatibility(EMC), reliability and energy performance, Chemical test. 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.

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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS17S0681754-1E	Jun. 12, 2017	Jun. 12 –Jul. 05, 2017	Jul. 06, 2017	original	-	Valid

5 General Information

5.1 General Description of E.U.T.

Product Name:	Skyroam Solis
Model No.:	S008
Model Description:	N/A
GSM Band(s):	N/A
GPRS/EGPRS Class:	N/A
WCDMA Band(s):	FDD Band I/II/V/VIII
LTE Band(s):	FDD Band 2/4/5/7/17/41
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
Bluetooth Version:	N/A
GPS:	N/A
NFC:	N/A
Hardware Version:	S008_MB_V1.1
Software Version:	Full_skyroam_4Solis-userdebug 6.0
Highest frequency (Exclude Radio):	1.3GHz
Storage Location:	Internal Storage
Note:	Main board (Modem 1): The EUT Main board support WCDMA Band I/II/V/VIII, LTE Band 2/4/5/7/17/41 function. It is intended for speech, Multimedia Message Service (MMS) transmission and 4G free roaming hotspot. It is equipped with Wi-Fi functions. For more information see the following datasheet. Vice board (Modem 2): The EUT Vice board support WCDMA Band I/II/V/VIII, it is intended for system localization.

5.2 Details of E.U.T.

Operation Frequency:	WCDMA Band II: 1850~1910MHz WCDMA Band V: 824~849MHz LTE Band 2: 1850~1910MHz LTE Band 4: 1710~1755MHz LTE Band 5: 823~850MHz LTE Band 7: 2500-2570MHz LTE Band 17: 704-716MHz LTE Band 41: 2555~2655MHz WiFi: 802.11b/g/n HT20: 2412~2462MHz
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	802.11n HT40: 2422~2452MHz
Max. RF output power:	Main Board: WCDMA Band II: 22.63dBm WCDMA Band V: 22.45dBm LTE Band 2: 22.88dBm LTE Band 4: 21.93dBm LTE Band 5: 22.82dBm LTE Band 7: 22.89dBm LTE Band 17: 22.84dBm LTE Band 41: 23.74dBm WiFi(2.4G): 9.49dBm Vice Board: WCDMA Band II: 22.88dBm WCDMA Band V: 22.45dBm
Type of Modulation:	WCDMA: BPSK, 16QAM LTE: QPSK, 16QAM WiFi: CCK, OFDM
Antenna installation:	WCDMA/LTE: internal permanent antenna WiFi: internal permanent antenna
Antenna Gain:	WCDMA Band II: 2.33dBi WCDMA Band V: -0.41dBi LTE Band 2: 2.33dBi LTE Band 4: 3.34dBi LTE Band 5: -0.41dBi LTE Band 7: 3.67dBi LTE Band 17: -0.31dBi LTE Band 41: 3.65dBi WiFi(2.4G): 1.13dBi
Technical Data:	Powered by Battery DC 3.7V, 3350mAh or Powered by USB port input 5V, 2.0A
Adapter:	Sale without adapter

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	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 .

5.5 Test Facility

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

- **IC – 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, 2015.

- **FCC Test Site 2#– Registration No.: 328995**

Waltek Services(Shenzhen) Co., Ltd. EMC Laboratory `has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration 328995, December 3, 2014.

6 Test Summary

Test Items	Test Requirement	Result
Radiated Spurious Emissions	15.247(d) 15.205(a) 15.209(a)	PASS
Conducted Spurious Emissions	15.247(d)	PASS
Conducted Emissions	15.207(a)	PASS
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
Maximum Permissible Exposure (Exposure of Humans to RF Fields)	1.1307(b)(1)	PASS

7 Equipment Used during Test

7.1 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	Sep.12,2016	Sep.11,2017
2.	LISN	R&S	ENV216	101215	Sep.12,2016	Sep.11,2017
3.	Cable	Top	TYPE16(3.5M)	-	Sep.12,2016	Sep.11,2017
Conducted Emissions Test Site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMI Test Receiver	R&S	ESCI	101155	Sep.12,2016	Sep.11,2017
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	Sep.12,2016	Sep.11,2017
3.	Limiter	York	MTS-IMP-136	261115-001-0024	Sep.12,2016	Sep.11,2017
4.	Cable	LARGE	RF300	-	Sep.12,2016	Sep.11,2017
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	Apr.29, 2017	Apr.28, 2018
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	Apr.09,2017	Apr.08,2018
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	Apr.09,2017	Apr.08,2018
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	Sep.12,2016	Sep.11,2017
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	Apr.09,2017	Apr.08,2018
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	Apr.09,2017	Apr.08,2018
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	Apr.13,2017	Apr.12,2018
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	Apr.13,2017	Apr.12,2018
3m Semi-anechoic Chamber for Radiation Emissions Test site 2#						
Item	Equipment	Manufacturer	Model No.	Serial No	Last Calibration Date	Calibration Due Date
1	Test Receiver	R&S	ESCI	101296	Apr.13,2017	Apr.12,2018
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	Apr.09,2017	Apr.08,2018
3	Amplifier	Compliance pirection systems inc	PAP-0203	22024	Apr.13,2017	Apr.12,2018
4	Cable	HUBER+SUHNER	CBL2	525178	Apr.13,2017	Apr.12,2018

RF Conducted Testing						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1.	EMC Analyzer (9k~26.5GHz)	Agilent	E7405A	MY45114943	Sep.12,2016	Sep.11,2017
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	Sep.12,2016	Sep.11,2017
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	Sep.12,2016	Sep.11,2017

7.2 Description of Support Units

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

7.3 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 (Bilog antenna 30M~1000MHz)
	± 5.47 dB (Horn antenna 1000M~25000MHz)
Conducted Emissions test	± 3.64 dB (AC mains 150KHz~30MHz)
Conducted Spurious Emissions test	± 3.12 dB (9kHz~30MHz)
	± 4.21 dB (30M~1000MHz)
	± 5.14 dB (1000M~26500MHz)
Confidence interval: 95%. Confidence factor:k=2	

7.4 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.

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:

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

8.1 E.U.T. Operation

Operating Environment :

Temperature: 21.5 °C

Humidity: 51.9 % RH

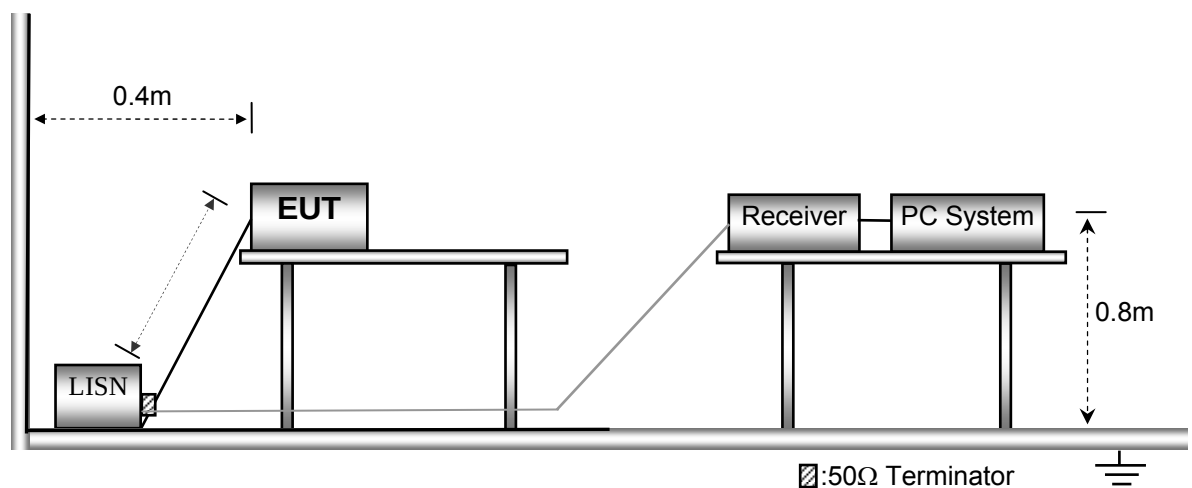
Atmospheric Pressure: 101.2kPa

EUT Operation :

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

8.2 EUT Setup

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



8.3 Measurement Description

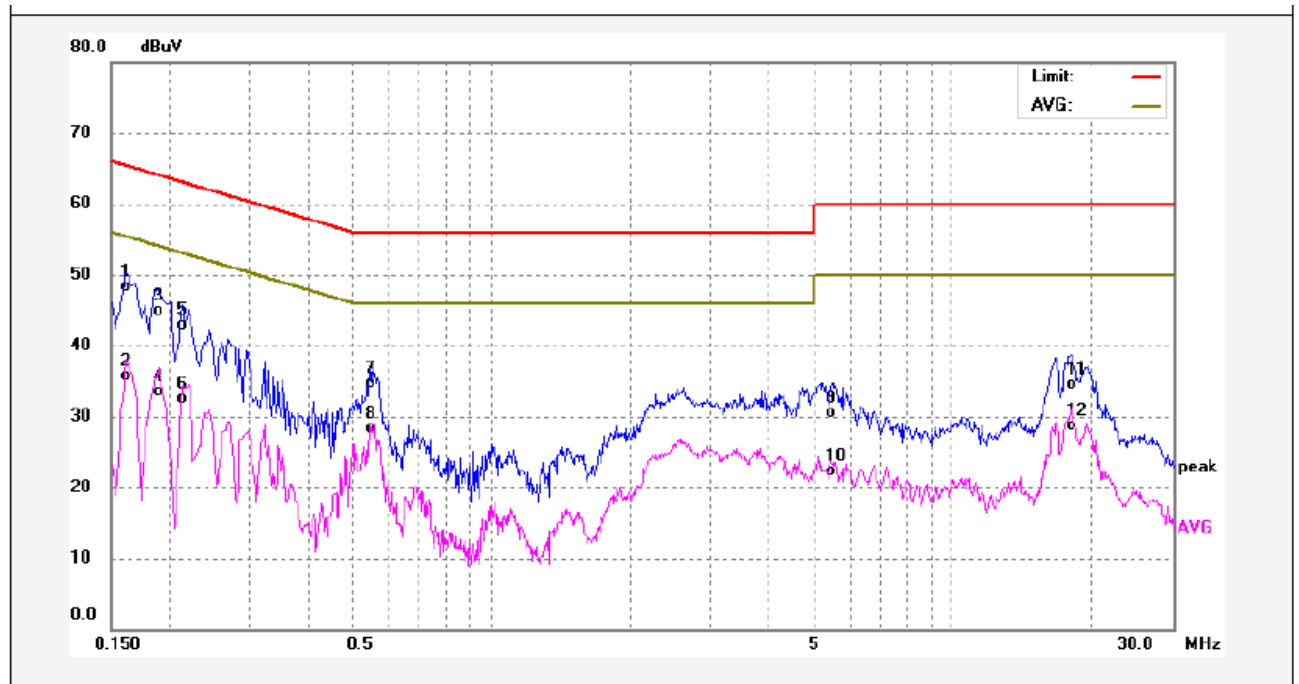
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

8.4 Conducted Emission Test Result

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

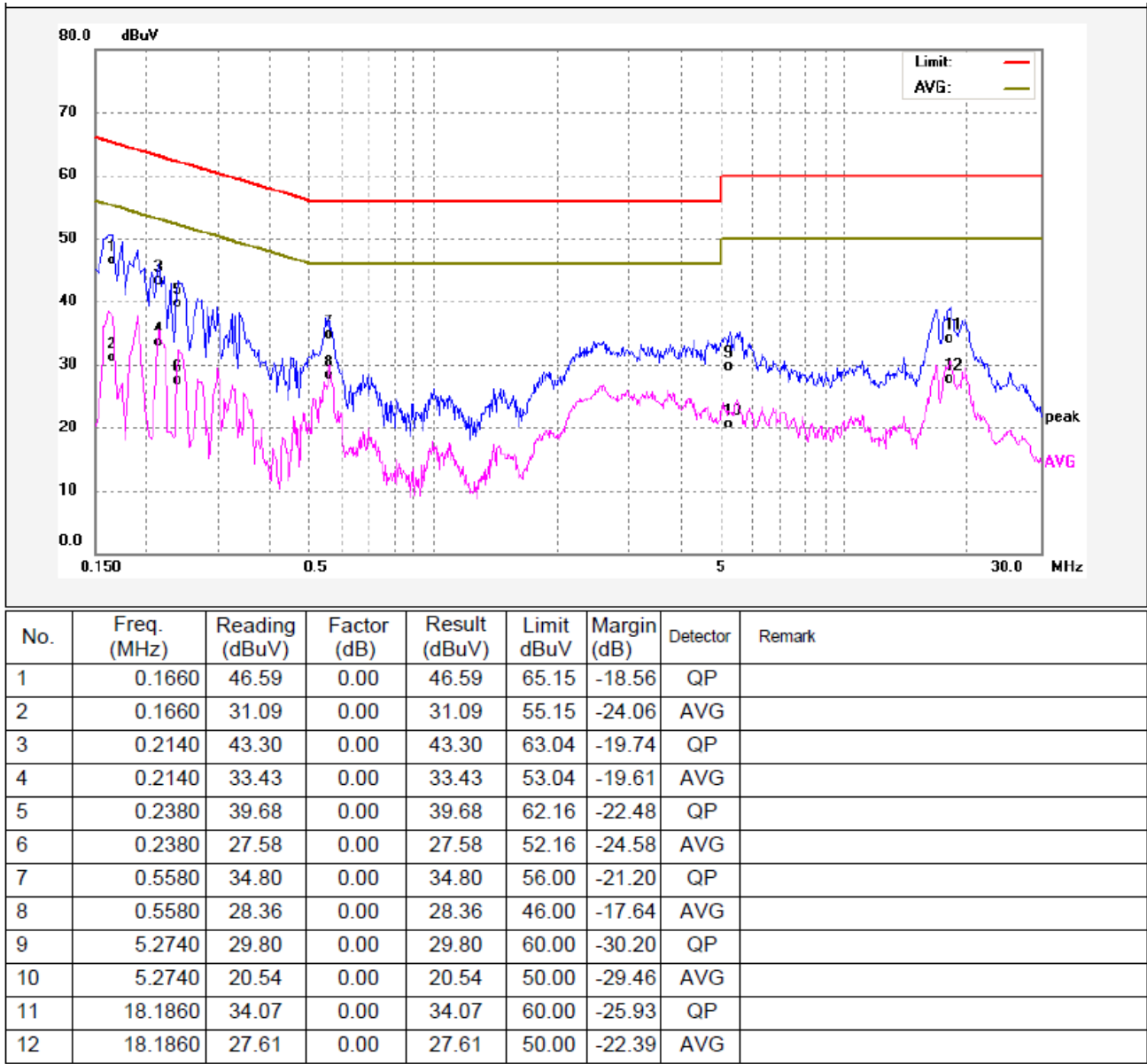
Worst Mode: WIFI mode (802.11b mode low channel)

Live line:



No.	Freq. (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit dBuV	Margin (dB)	Detector	Remark
1	0.1620	48.25	0.00	48.25	65.36	-17.11	QP	
2	0.1620	35.64	0.00	35.64	55.36	-19.72	AVG	
3	0.1900	44.93	0.00	44.93	64.03	-19.10	QP	
4	0.1900	33.41	0.00	33.41	54.03	-20.62	AVG	
5	0.2140	42.86	0.00	42.86	63.04	-20.18	QP	
6	0.2140	32.47	0.00	32.47	53.04	-20.57	AVG	
7	0.5540	34.70	0.00	34.70	56.00	-21.30	QP	
8	0.5540	28.37	0.00	28.37	46.00	-17.63	AVG	
9	5.4980	30.54	0.00	30.54	60.00	-29.46	QP	
10	5.4980	22.21	0.00	22.21	50.00	-27.79	AVG	
11	18.0780	34.56	0.00	34.56	60.00	-25.44	QP	
12	18.0780	28.67	0.00	28.67	50.00	-21.33	AVG	

Neutral line:



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

9.1 EUT Operation

Operating Environment :

Temperature: 23.5 °C

Humidity: 52.1 % RH

Atmospheric Pressure: 101.2kPa

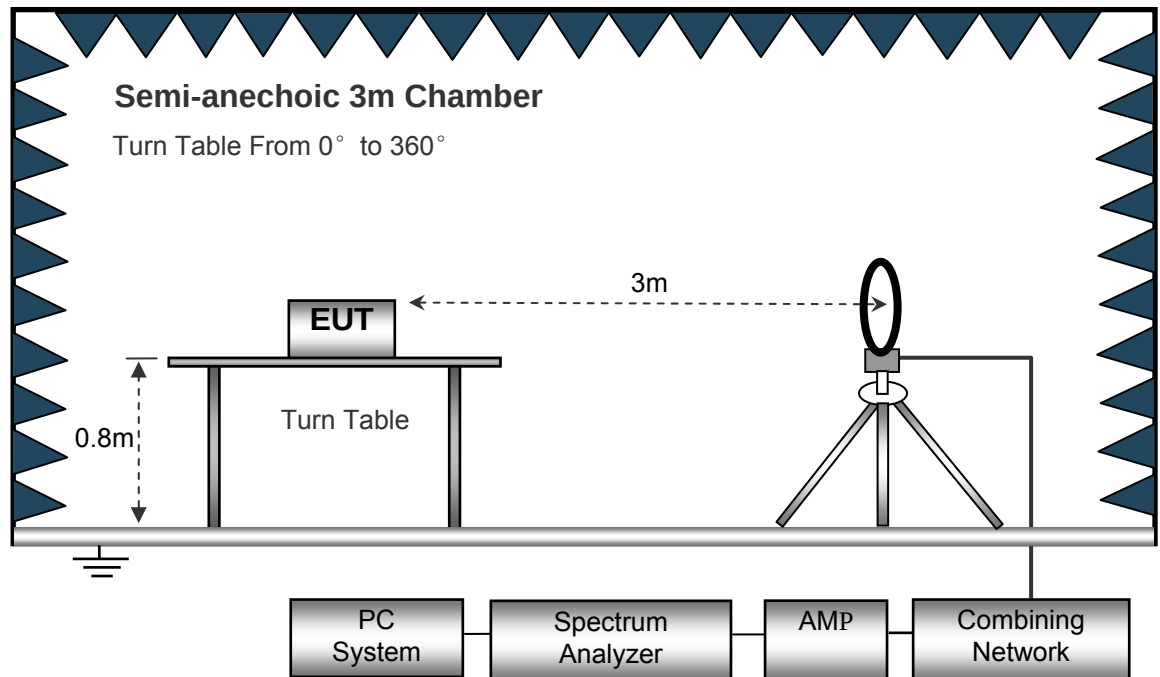
EUT Operation :

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

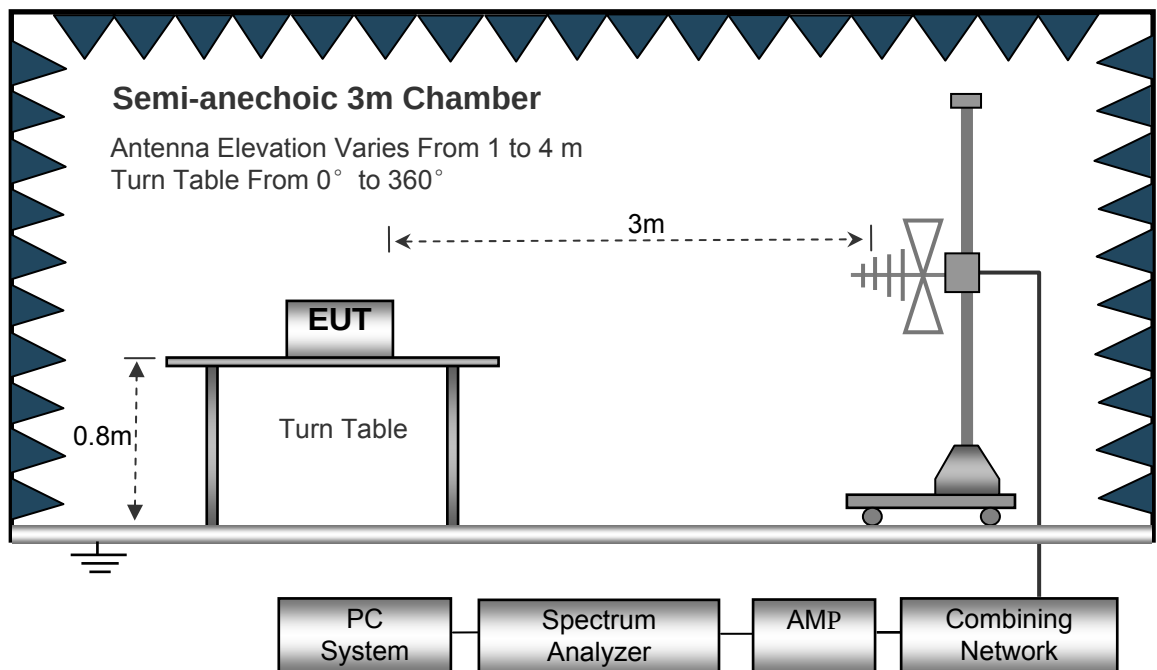
9.2 Test Setup

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

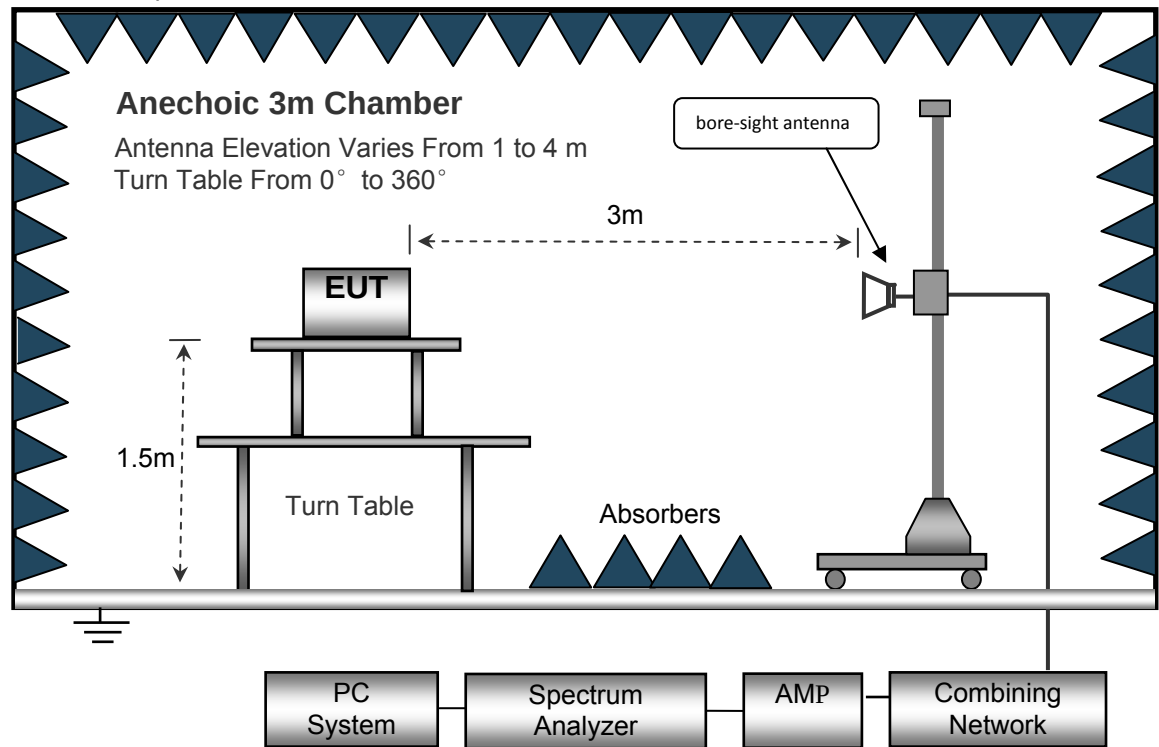
The test setup for emission measurement below 30MHz.



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
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

9.4 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.

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

Wifi:

Test Frequency: 9KHz~30MHz

Frequency	Measurement results dB μ V @3m	Detector PK/QP	Correct factor dB/m	Extrapolation factor dB	Measurement results (calculated) dB μ V/m @30m	Limits dB μ V/m @30m	Margin dB
(MHz)	Measurement results	Detector	Correct factor	Extrapolation factor	Measurement results (calculated)	Limits	Margin
802.11b							
6.113	25.02	QP	21.84	40.00	6.86	29.54	-22.68
15.642	25.63	QP	21.35	40.00	6.98	29.54	-22.56
25.536	26.71	QP	20.67	40.00	7.38	29.54	-22.16
802.11g							
6.113	25.68	QP	21.84	40.00	7.52	29.54	-22.02
15.642	24.96	QP	21.35	40.00	6.31	29.54	-23.23
25.536	26.35	QP	20.67	40.00	7.02	29.54	-22.52
802.11n(HT20)							
6.113	25.04	QP	21.84	40.00	6.88	29.54	-22.66
15.642	25.66	QP	21.35	40.00	7.01	29.54	-22.53
25.536	25.86	QP	20.67	40.00	6.53	29.54	-23.01
802.11n(HT40)							
6.113	25.14	QP	21.84	40.00	6.98	29.54	-22.56
15.642	25.73	QP	21.35	40.00	7.08	29.54	-22.46
25.536	26.55	QP	20.67	40.00	7.22	29.54	-22.32

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									
224.68	40.26	QP	56	1.6	H	-11.62	28.64	46.00	-17.36
224.68	27.53	QP	305	1.5	V	-11.62	15.91	46.00	-30.09
4824.00	49.85	PK	109	1.7	V	-1.06	48.79	74.00	-25.21
4824.00	46.38	Ave	109	1.7	V	-1.06	45.32	54.00	-8.68
7236.00	42.05	PK	256	1.5	H	1.33	43.38	74.00	-30.62
7236.00	42.17	Ave	256	1.5	H	1.33	43.50	54.00	-10.50
2334.80	45.10	PK	136	1.3	V	-13.19	31.91	74.00	-42.09
2334.80	37.36	Ave	136	1.3	V	-13.19	24.17	54.00	-29.83
2371.46	42.46	PK	164	1.2	H	-13.14	29.32	74.00	-44.68
2371.46	37.56	Ave	164	1.2	H	-13.14	24.42	54.00	-29.58
2487.33	44.37	PK	19	1.3	V	-13.08	31.29	74.00	-42.71
2487.33	37.06	Ave	19	1.3	V	-13.08	23.98	54.00	-30.02

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
224.68	40.75	QP	168	1.7	H	-11.62	29.13	46.00	-16.87
224.68	27.21	QP	245	1.6	V	-11.62	15.59	46.00	-30.41
4874.00	51.26	PK	56	1.6	V	-0.62	50.64	74.00	-23.36
4874.00	45.66	Ave	56	1.6	V	-0.62	45.04	54.00	-8.96
7311.00	40.94	PK	73	1.4	H	2.21	43.15	74.00	-30.85
7311.00	42.24	Ave	73	1.4	H	2.21	44.45	54.00	-9.55
2338.04	46.50	PK	7	1.1	V	-13.19	33.31	74.00	-40.69
2338.04	38.78	Ave	7	1.1	V	-13.19	25.59	54.00	-28.41
2375.12	43.45	PK	191	1.1	H	-13.14	30.31	74.00	-43.69
2375.12	37.43	Ave	191	1.1	H	-13.14	24.29	54.00	-29.71
2491.63	44.02	PK	100	1.9	V	-13.08	30.94	74.00	-43.06
2491.63	38.69	Ave	100	1.9	V	-13.08	25.61	54.00	-28.39

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									
224.68	42.12	QP	178	1.4	H	-11.62	30.50	46.00	-15.50
224.68	25.81	QP	64	1.7	V	-11.62	14.19	46.00	-31.81
4924.00	50.12	PK	346	1.8	V	-0.24	49.88	74.00	-24.12
4924.00	45.79	Ave	346	1.8	V	-0.24	45.55	54.00	-8.45
7386.00	40.13	PK	12	1.2	H	2.84	42.97	74.00	-31.03
7386.00	43.37	Ave	12	1.2	H	2.84	46.21	54.00	-7.79
2327.97	45.67	PK	135	1.1	V	-13.19	32.48	74.00	-41.52
2327.97	37.34	Ave	135	1.1	V	-13.19	24.15	54.00	-29.85
2386.79	44.66	PK	152	1.6	H	-13.14	31.52	74.00	-42.48
2386.79	37.84	Ave	152	1.6	H	-13.14	24.70	54.00	-29.30
2492.30	42.32	PK	217	2.0	V	-13.08	29.24	74.00	-44.76
2492.30	36.12	Ave	217	2.0	V	-13.08	23.04	54.00	-30.96

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									
224.68	42.21	QP	85	1.2	H	-11.62	30.59	46.00	-15.41
224.68	26.02	QP	309	1.6	V	-11.62	14.40	46.00	-31.60
4824.00	50.88	PK	16	1.1	V	-1.06	49.82	74.00	-24.18
4824.00	45.72	Ave	16	1.1	V	-1.06	44.66	54.00	-9.34
7236.00	40.20	PK	352	1.4	H	1.33	41.53	74.00	-32.47
7236.00	42.44	Ave	352	1.4	H	1.33	43.77	54.00	-10.23
2314.54	46.82	PK	36	1.8	V	-13.19	33.63	74.00	-40.37
2314.54	37.83	Ave	36	1.8	V	-13.19	24.64	54.00	-29.36
2365.48	43.62	PK	71	1.1	H	-13.14	30.48	74.00	-43.52
2365.48	38.71	Ave	71	1.1	H	-13.14	25.57	54.00	-28.43
2487.92	44.61	PK	117	1.9	V	-13.08	31.53	74.00	-42.47
2487.92	36.60	Ave	117	1.9	V	-13.08	23.52	54.00	-30.48

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									
224.68	41.52	QP	157	1.2	H	-11.62	29.90	46.00	-16.10
224.68	27.11	QP	178	1.5	V	-11.62	15.49	46.00	-30.51
4874.00	51.47	PK	162	1.7	V	-0.62	50.85	74.00	-23.15
4874.00	44.26	Ave	162	1.7	V	-0.62	43.64	54.00	-10.36
7311.00	41.51	PK	142	1.3	H	2.21	43.72	74.00	-30.28
7311.00	43.74	Ave	142	1.3	H	2.21	45.95	54.00	-8.05
2329.29	45.52	PK	278	1.2	V	-13.19	32.33	74.00	-41.67
2329.29	38.30	Ave	278	1.2	V	-13.19	25.11	54.00	-28.89
2352.52	43.22	PK	284	1.6	H	-13.14	30.08	74.00	-43.92
2352.52	36.65	Ave	284	1.6	H	-13.14	23.51	54.00	-30.49
2491.32	44.25	PK	322	1.4	V	-13.08	31.17	74.00	-42.83
2491.32	37.53	Ave	322	1.4	V	-13.08	24.45	54.00	-29.55

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									
224.68	41.99	QP	343	1.1	H	-11.62	30.37	46.00	-15.63
224.68	26.94	QP	12	1.9	V	-11.62	15.32	46.00	-30.68
4924.00	52.14	PK	223	1.7	V	-0.24	51.90	74.00	-22.10
4924.00	45.55	Ave	223	1.7	V	-0.24	45.31	54.00	-8.69
7386.00	42.71	PK	275	1.3	H	2.84	45.55	74.00	-28.45
7386.00	44.39	Ave	275	1.3	H	2.84	47.23	54.00	-6.77
2345.73	45.93	PK	200	1.4	V	-13.19	32.74	74.00	-41.26
2345.73	37.19	Ave	200	1.4	V	-13.19	24.00	54.00	-30.00
2377.39	42.56	PK	9	1.7	H	-13.14	29.42	74.00	-44.58
2377.39	38.74	Ave	9	1.7	H	-13.14	25.60	54.00	-28.40
2494.95	43.11	PK	338	1.3	V	-13.08	30.03	74.00	-43.97
2494.95	36.62	Ave	338	1.3	V	-13.08	23.54	54.00	-30.46

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: Low Channel 2412MHz									
224.68	41.05	QP	295	1.8	H	-11.62	29.43	46.00	-16.57
224.68	25.65	QP	294	1.3	V	-11.62	14.03	46.00	-31.97
4824.00	51.88	PK	124	1.1	V	-1.06	50.82	74.00	-23.18
4824.00	45.54	Ave	124	1.1	V	-1.06	44.48	54.00	-9.52
7236.00	43.61	PK	118	1.6	H	1.33	44.94	74.00	-29.06
7236.00	43.30	Ave	118	1.6	H	1.33	44.63	54.00	-9.37
2330.81	46.65	PK	295	1.3	V	-13.19	33.46	74.00	-40.54
2330.81	38.70	Ave	295	1.3	V	-13.19	25.51	54.00	-28.49
2350.03	44.18	PK	182	1.8	H	-13.14	31.04	74.00	-42.96
2350.03	36.43	Ave	182	1.8	H	-13.14	23.29	54.00	-30.71
2483.61	43.37	PK	295	2.0	V	-13.08	30.29	74.00	-43.71
2483.61	37.38	Ave	295	2.0	V	-13.08	24.30	54.00	-29.70

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									
224.68	40.84	QP	13	1.2	H	-11.62	29.22	46.00	-16.78
224.68	24.78	QP	221	1.8	V	-11.62	13.16	46.00	-32.84
4874.00	52.52	PK	141	1.4	V	-0.62	51.90	74.00	-22.10
4874.00	44.33	Ave	141	1.4	V	-0.62	43.71	54.00	-10.29
7311.00	43.76	PK	360	1.6	H	2.21	45.97	74.00	-28.03
7311.00	43.80	Ave	360	1.6	H	2.21	46.01	54.00	-7.99
2341.79	46.91	PK	155	1.5	V	-13.19	33.72	74.00	-40.28
2341.79	39.91	Ave	155	1.5	V	-13.19	26.72	54.00	-27.28
2360.65	43.19	PK	58	1.3	H	-13.14	30.05	74.00	-43.95
2360.65	36.62	Ave	58	1.3	H	-13.14	23.48	54.00	-30.52
2487.02	42.83	PK	350	1.5	V	-13.08	29.75	74.00	-44.25
2487.02	38.81	Ave	350	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)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n20: High Channel 2462MHz									
224.68	41.21	QP	273	1.9	H	-11.62	29.59	46.00	-16.41
224.68	25.58	QP	50	1.4	V	-11.62	13.96	46.00	-32.04
4924.00	51.36	PK	223	1.8	V	-0.24	51.12	74.00	-22.88
4924.00	43.16	Ave	223	1.8	V	-0.24	42.92	54.00	-11.08
7386.00	44.38	PK	180	1.2	H	2.84	47.22	74.00	-26.78
7386.00	45.09	Ave	180	1.2	H	2.84	47.93	54.00	-6.07
2344.84	46.52	PK	82	1.0	V	-13.19	33.33	74.00	-40.67
2344.84	37.16	Ave	82	1.0	V	-13.19	23.97	54.00	-30.03
2357.42	42.39	PK	64	1.9	H	-13.14	29.25	74.00	-44.75
2357.42	36.47	Ave	64	1.9	H	-13.14	23.33	54.00	-30.67
2491.28	43.41	PK	271	1.1	V	-13.08	30.33	74.00	-43.67
2491.28	36.62	Ave	271	1.1	V	-13.08	23.54	54.00	-30.46

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Low Channel 2422MHz									
224.68	42.43	QP	281	1.3	H	-11.62	30.81	46.00	-15.19
224.68	24.55	QP	345	1.1	V	-11.62	12.93	46.00	-33.07
4844.00	48.39	PK	79	1.3	V	-1.06	47.33	74.00	-26.67
4844.00	41.66	Ave	79	1.3	V	-1.06	40.60	54.00	-13.40
7266.00	42.71	PK	116	1.0	H	1.33	44.04	74.00	-29.96
7266.00	42.36	Ave	116	1.0	H	1.33	43.69	54.00	-10.31
2349.42	45.16	PK	274	1.9	V	-13.19	31.97	74.00	-42.03
2349.42	38.42	Ave	274	1.9	V	-13.19	25.23	54.00	-28.77
2359.53	44.00	PK	353	1.2	H	-13.14	30.86	74.00	-43.14
2359.53	38.93	Ave	353	1.2	H	-13.14	25.79	54.00	-28.21
2484.50	43.48	PK	101	1.3	V	-13.08	30.40	74.00	-43.60
2484.50	38.84	Ave	101	1.3	V	-13.08	25.76	54.00	-28.24

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Middle Channel 2437MHz									
224.68	42.12	QP	117	1.1	H	-11.62	30.50	46.00	-15.50
224.68	24.36	QP	41	1.1	V	-11.62	12.74	46.00	-33.26
4874.00	48.78	PK	340	2.0	V	-0.62	48.16	74.00	-25.84
4874.00	41.91	Ave	340	2.0	V	-0.62	41.29	54.00	-12.71
7311.00	41.77	PK	184	1.7	H	2.21	43.98	74.00	-30.02
7311.00	41.99	Ave	184	1.7	H	2.21	44.20	54.00	-9.80
2316.11	46.66	PK	235	1.7	V	-13.19	33.47	74.00	-40.53
2316.11	37.65	Ave	235	1.7	V	-13.19	24.46	54.00	-29.54
2375.19	43.27	PK	56	1.7	H	-13.14	30.13	74.00	-43.87
2375.19	38.26	Ave	56	1.7	H	-13.14	25.12	54.00	-28.88
2486.39	43.19	PK	111	1.9	V	-13.08	30.11	74.00	-43.89
2486.39	36.63	Ave	111	1.9	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									
224.68	42.21	QP	171	1.2	H	-11.62	30.59	46.00	-15.41
224.68	24.45	QP	306	1.6	V	-11.62	12.83	46.00	-33.17
4904.00	49.69	PK	95	1.3	V	-0.24	49.45	74.00	-24.55
4904.00	41.07	Ave	95	1.3	V	-0.24	40.83	54.00	-13.17
7356.00	41.65	PK	160	1.9	H	2.84	44.49	74.00	-29.51
7356.00	41.31	Ave	160	1.9	H	2.84	44.15	54.00	-9.85
2339.55	45.49	PK	21	1.8	V	-13.19	32.30	74.00	-41.70
2339.55	37.42	Ave	21	1.8	V	-13.19	24.23	54.00	-29.77
2357.23	42.46	PK	129	1.8	H	-13.14	29.32	74.00	-44.68
2357.23	38.68	Ave	129	1.8	H	-13.14	25.54	54.00	-28.46
2485.48	44.90	PK	201	1.5	V	-13.08	31.82	74.00	-42.18
2485.48	37.01	Ave	201	1.5	V	-13.08	23.93	54.00	-30.07

Test Frequency: 18GHz~25GHz

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

10 Conducted Spurious Emissions

Test Requirement: FCC CFR47 Part 15 Section 15.247
Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016
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)).

10.1 Test Procedure

1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:

Below 1GHz:

RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

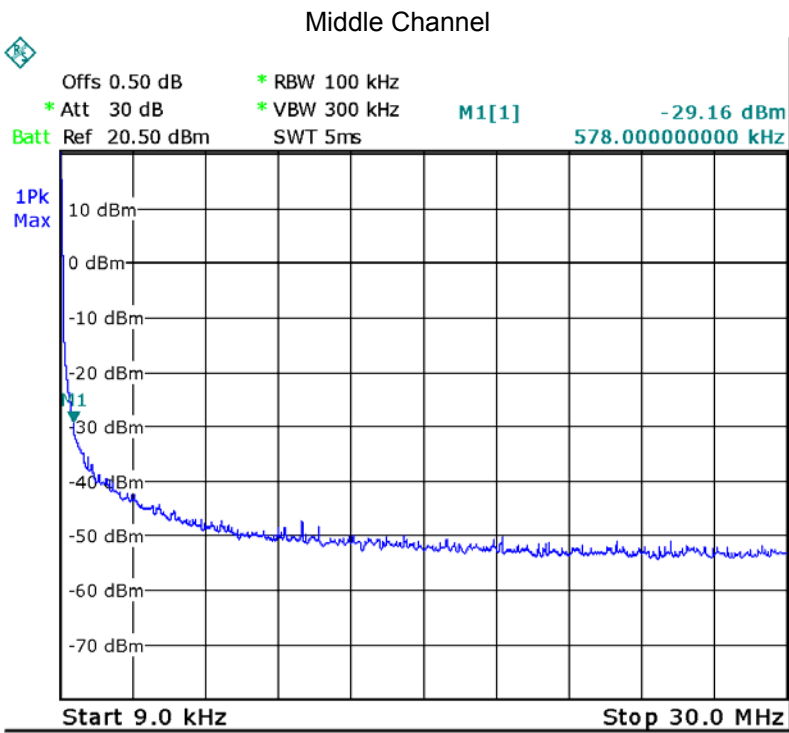
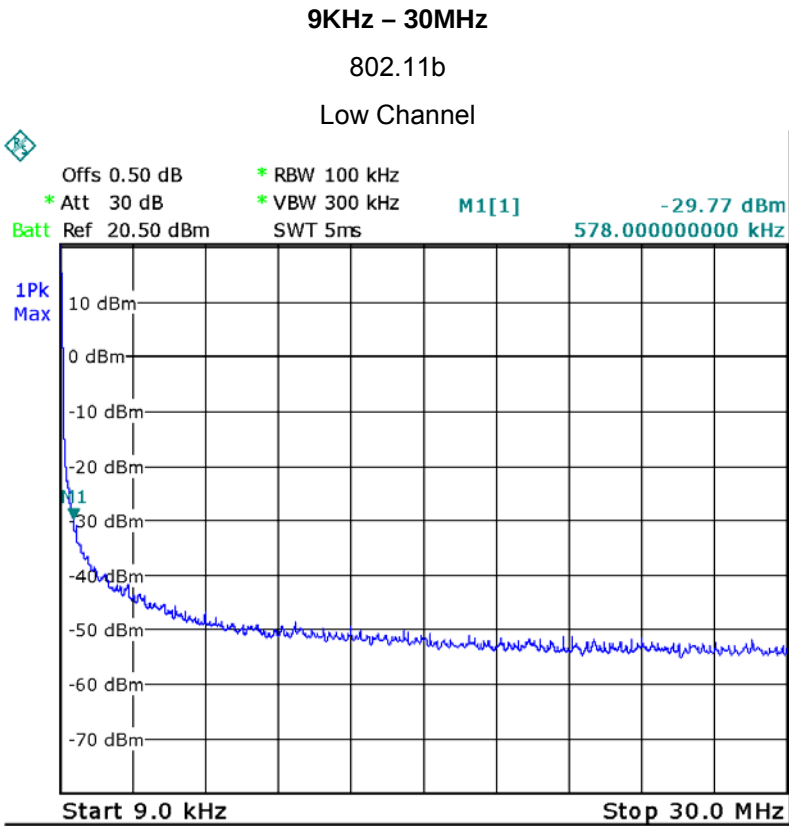
Above 1GHz:

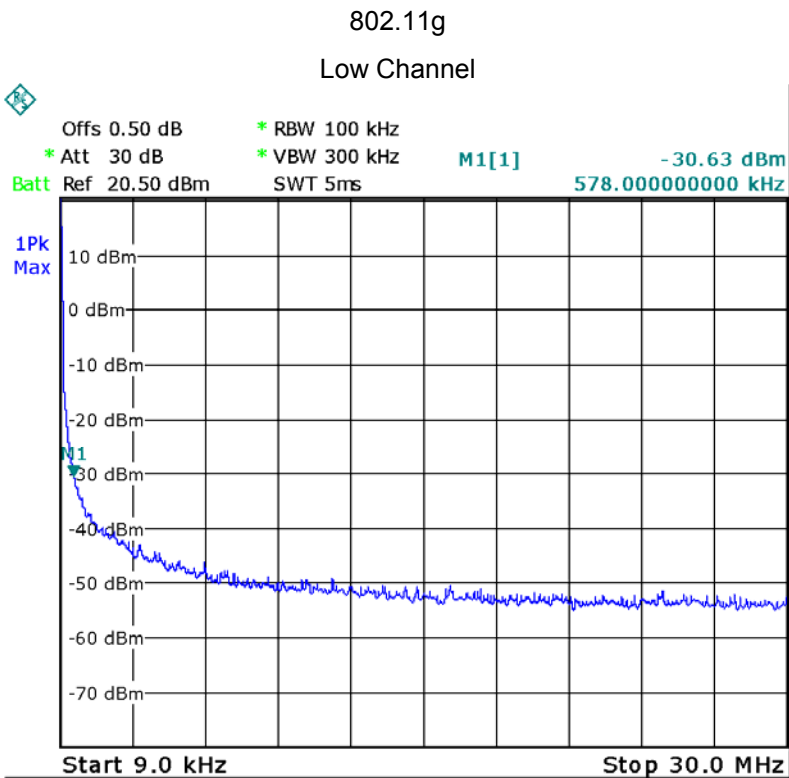
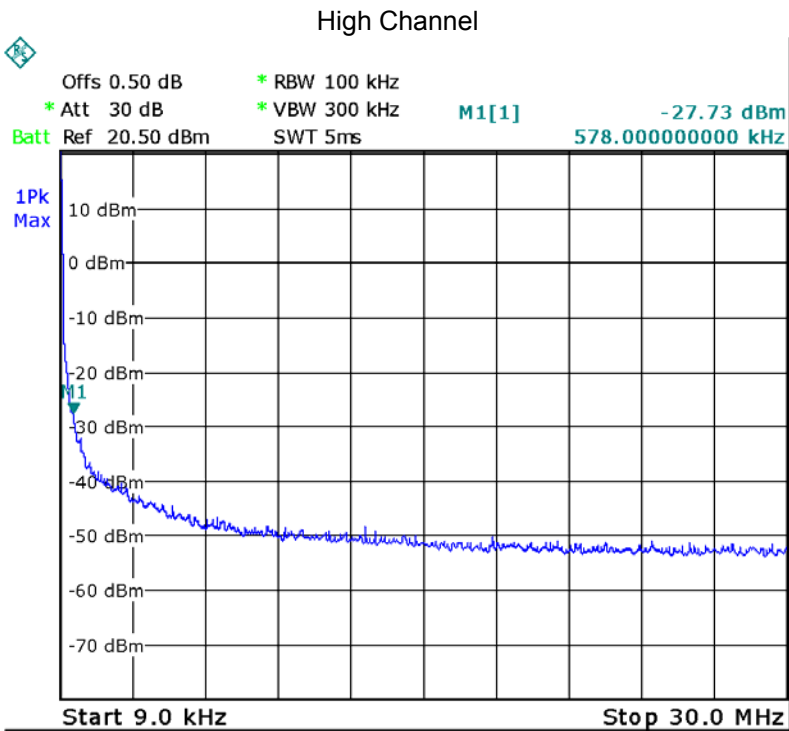
For WIFI mode

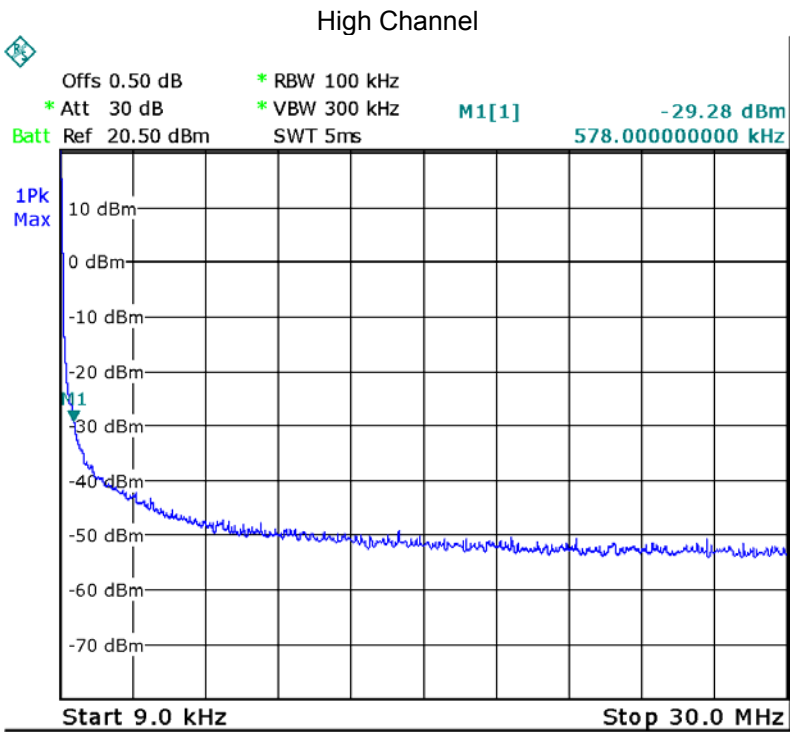
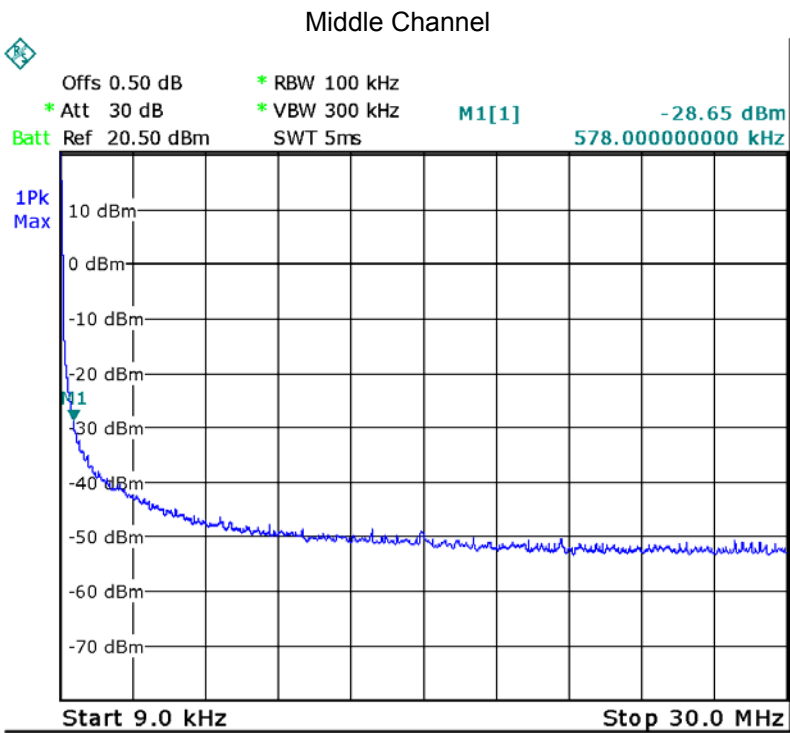
RBW = 100kHz, VBW = 300kHz, Sweep = auto

Detector function = peak, Trace = max hold

10.2 Test Result

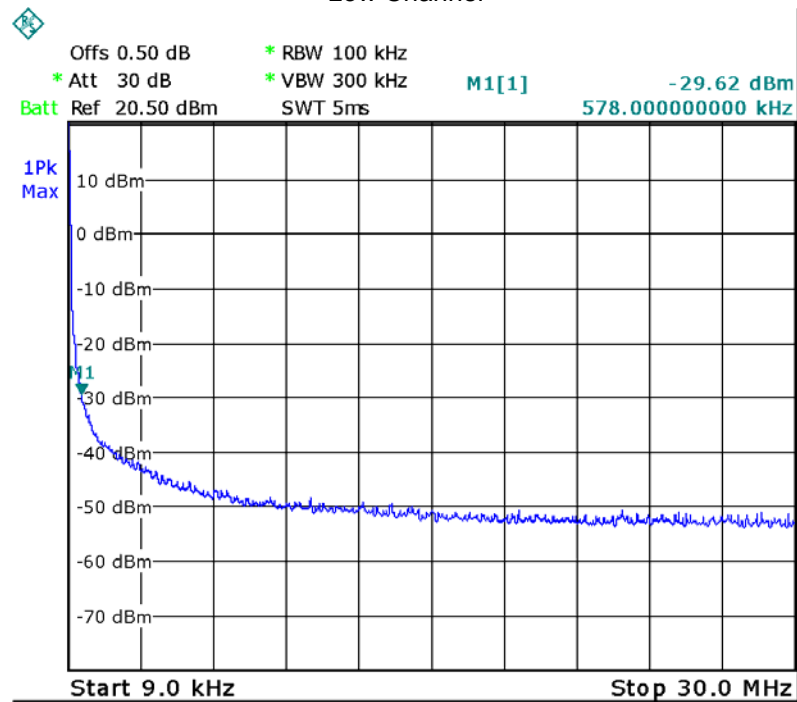




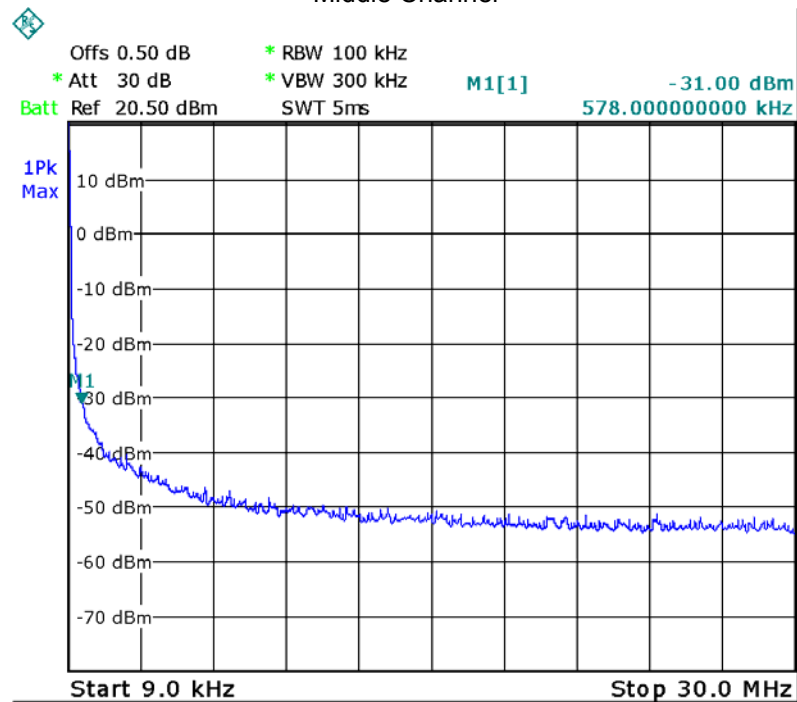


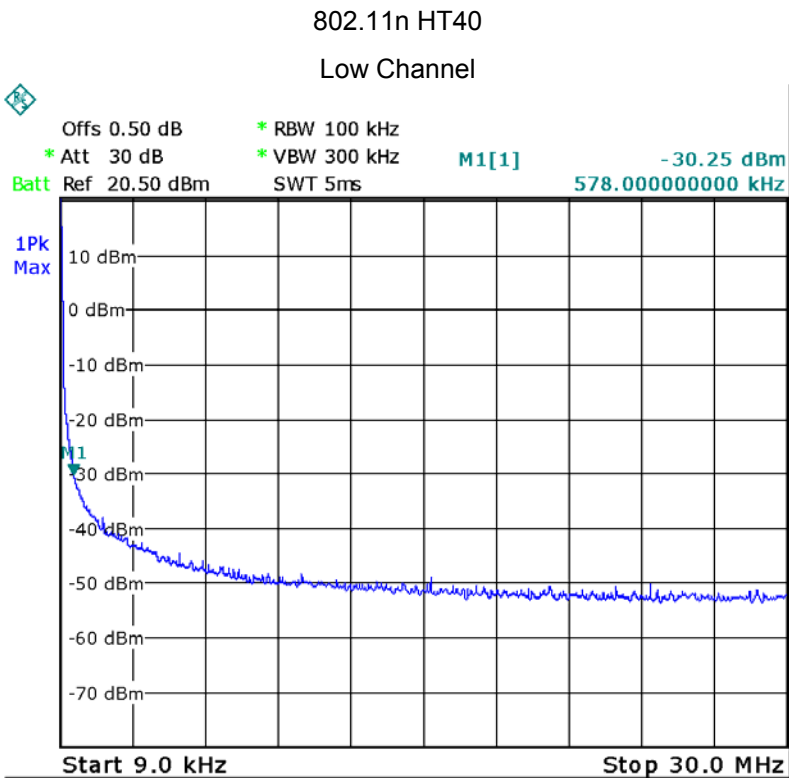
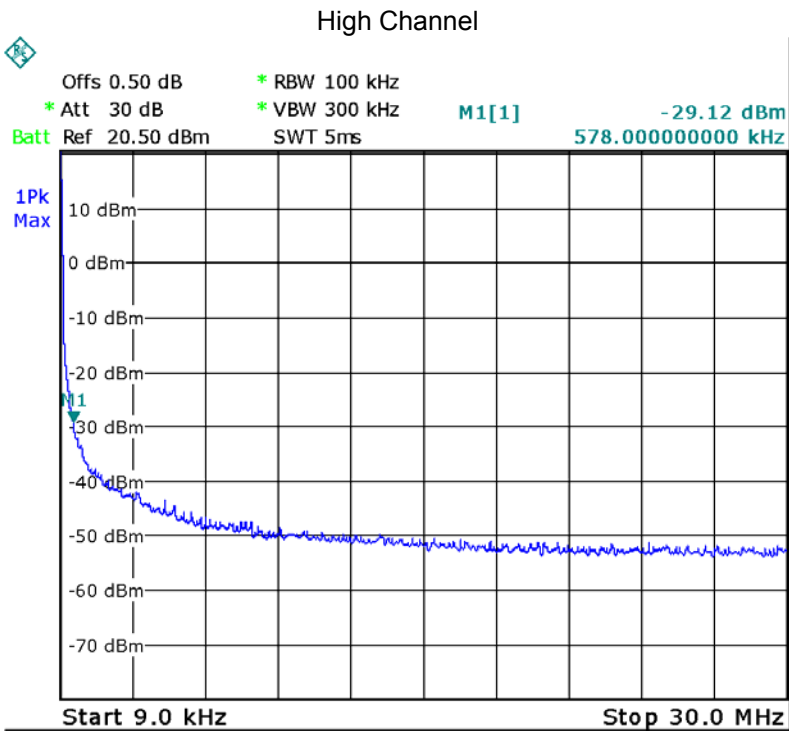
802.11n HT20

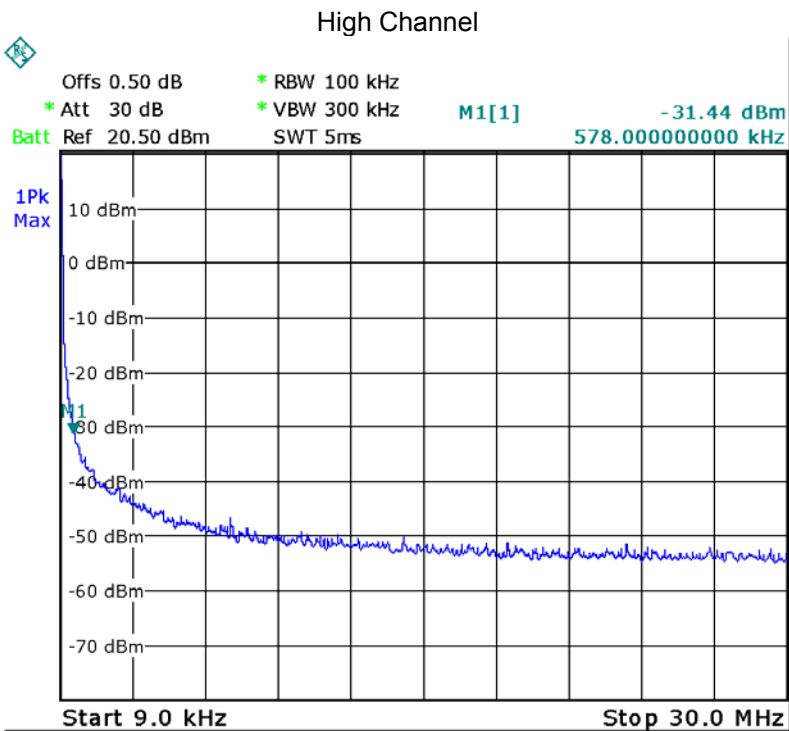
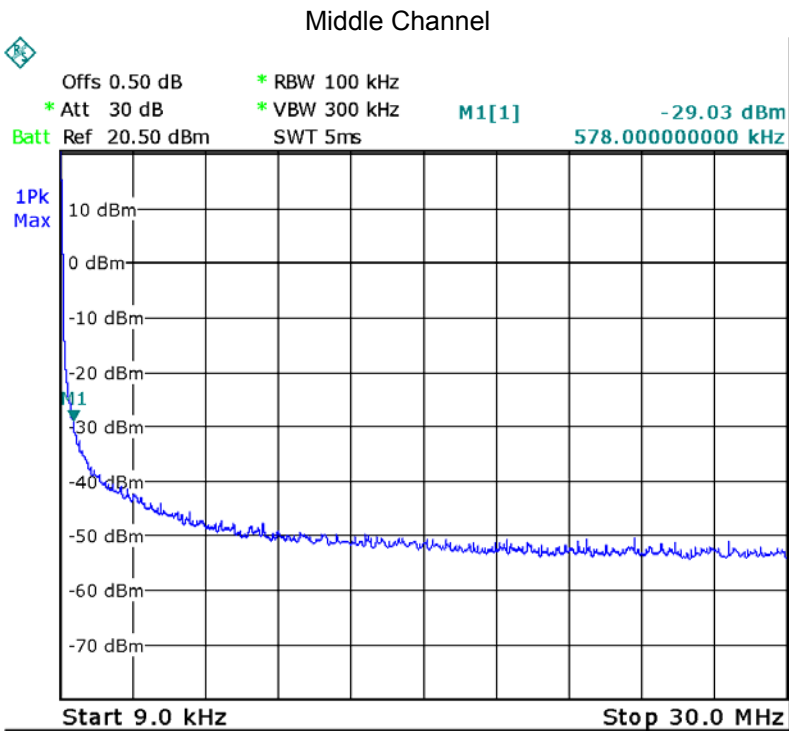
Low Channel



Middle Channel





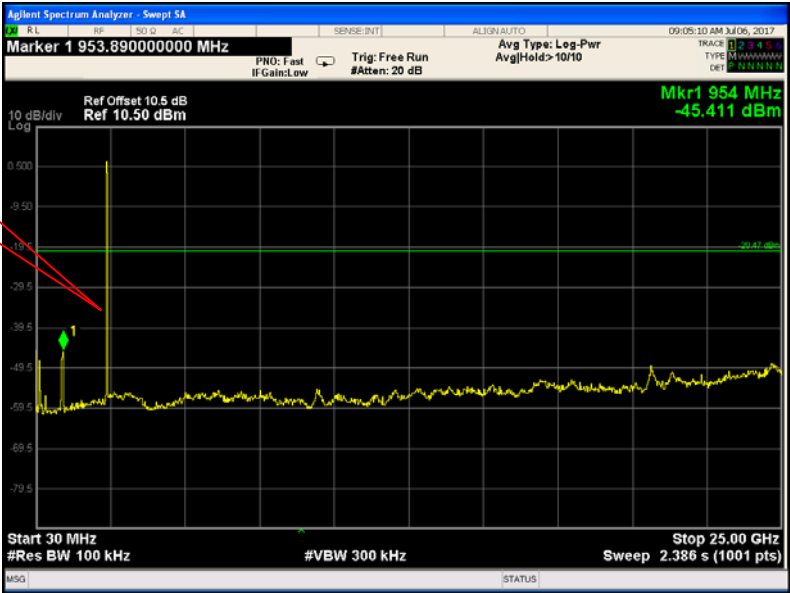


Above 30MHz

802.11b

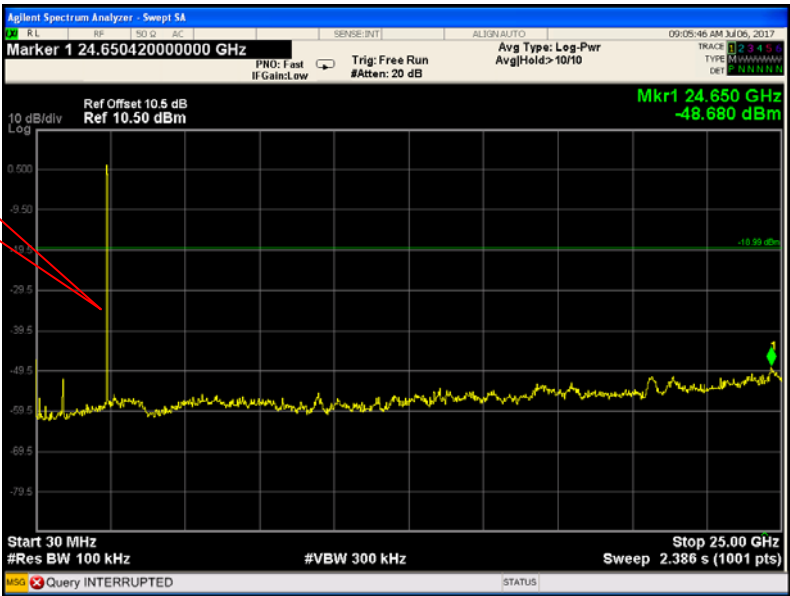
Low Channel

Fundamental



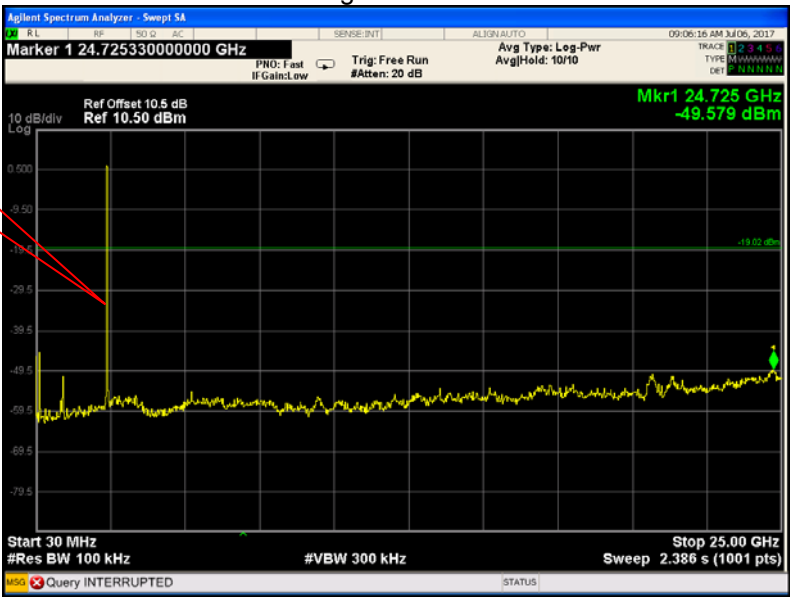
Middle Channel

Fundamental



High Channel

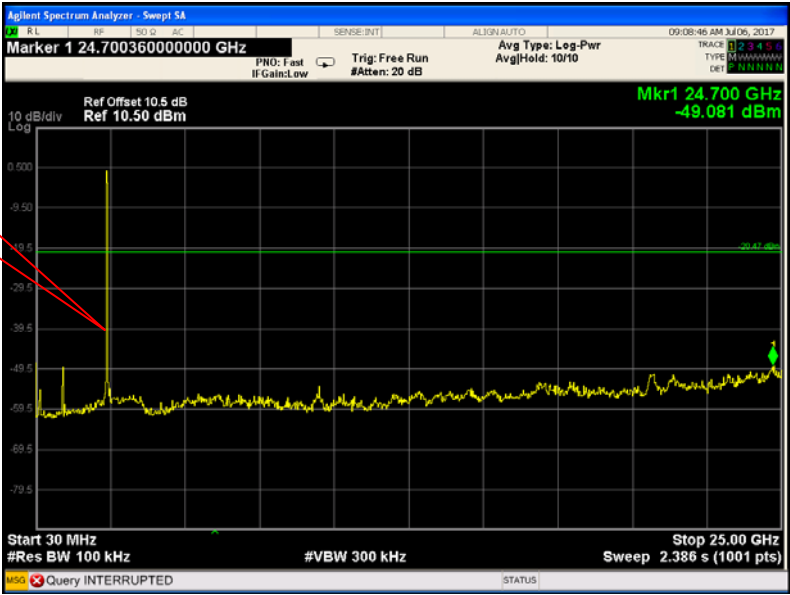
Fundamental



802.11g

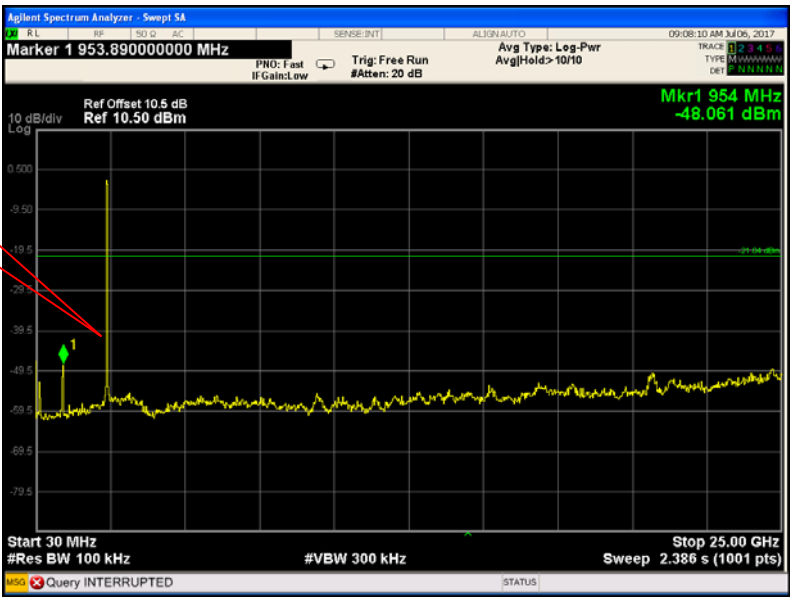
Low Channel

Fundamental



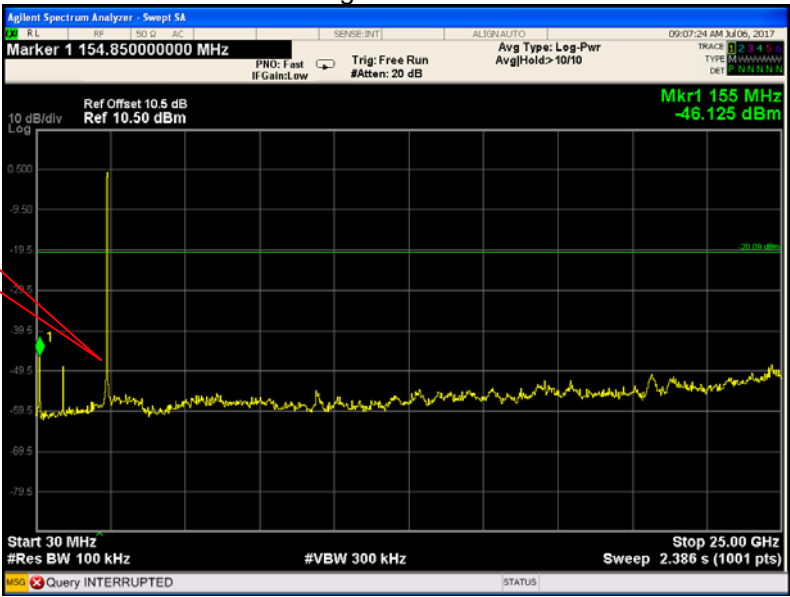
Middle Channel

Fundamental



High Channel

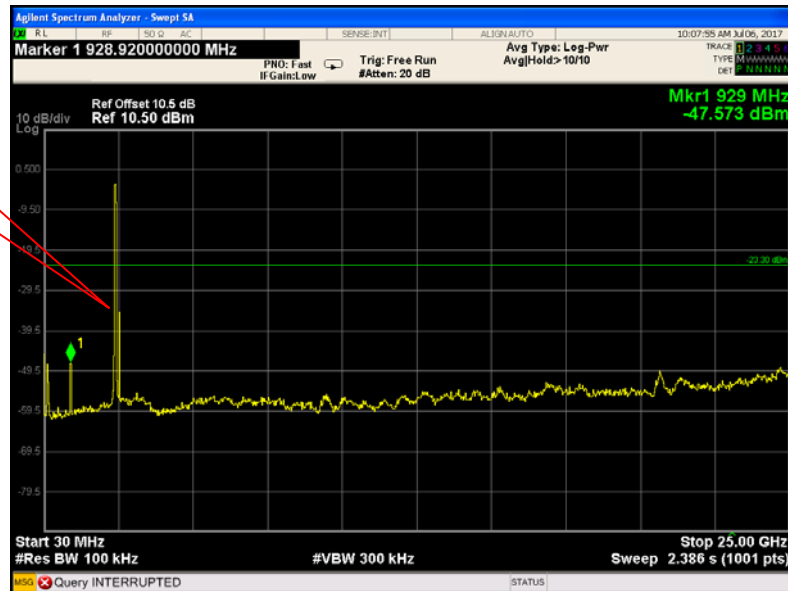
Fundamental



802.11n HT20

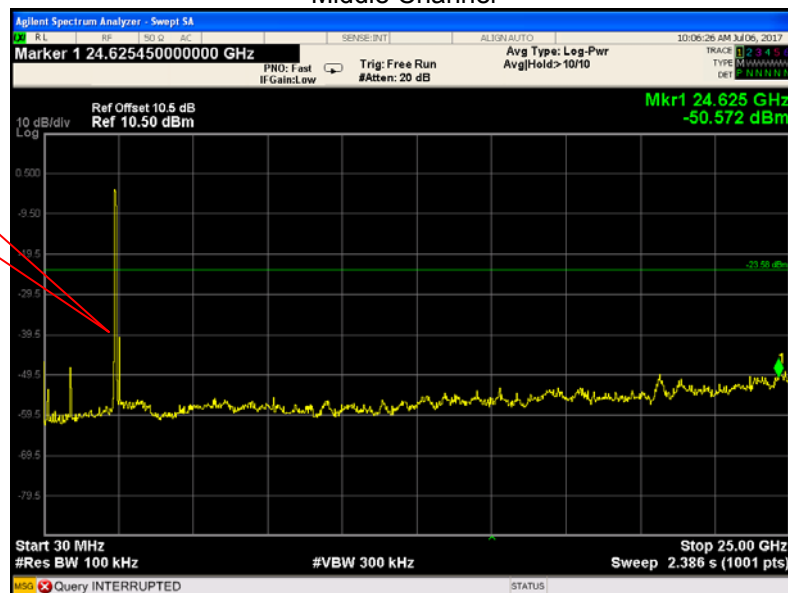
Low Channel

Fundamental

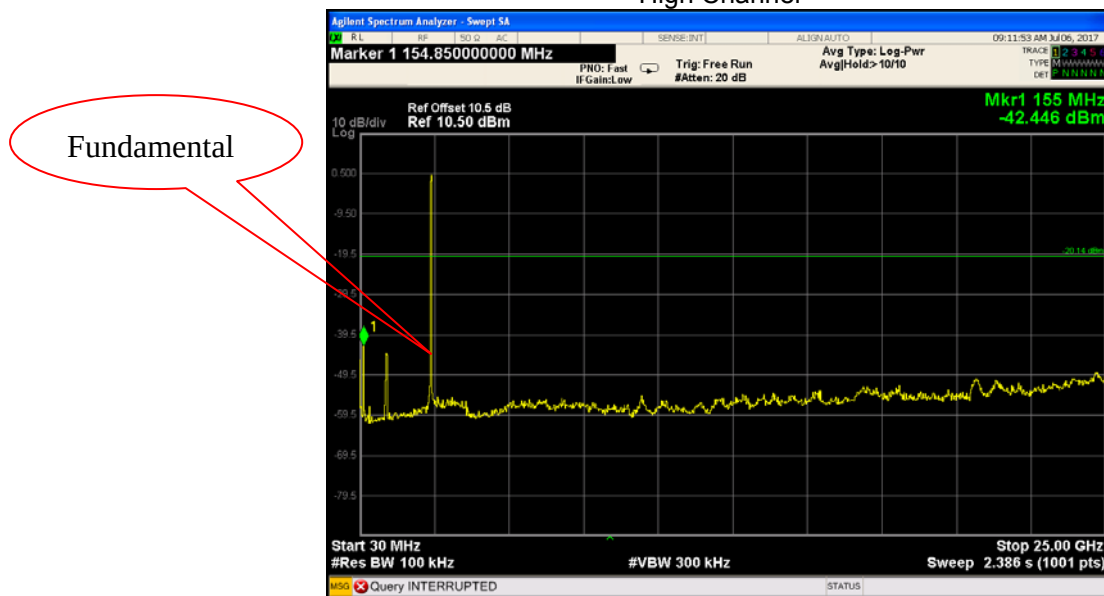


Middle Channel

Fundamental

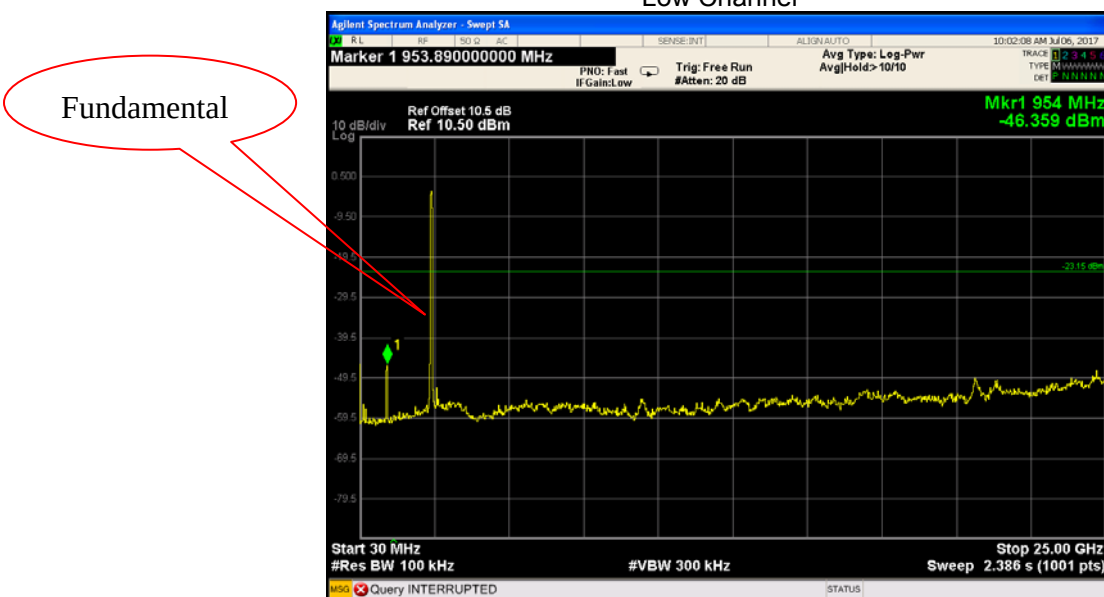


High Channel



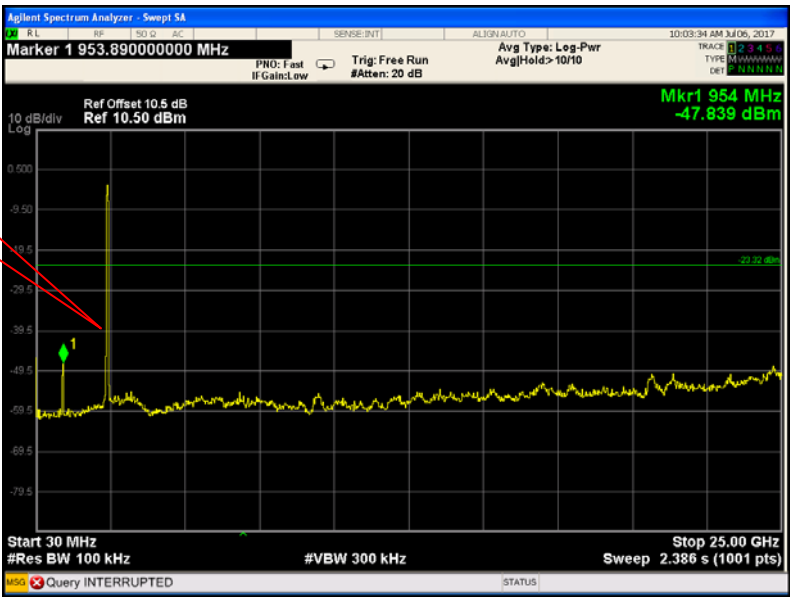
802.11n HT40

Low Channel



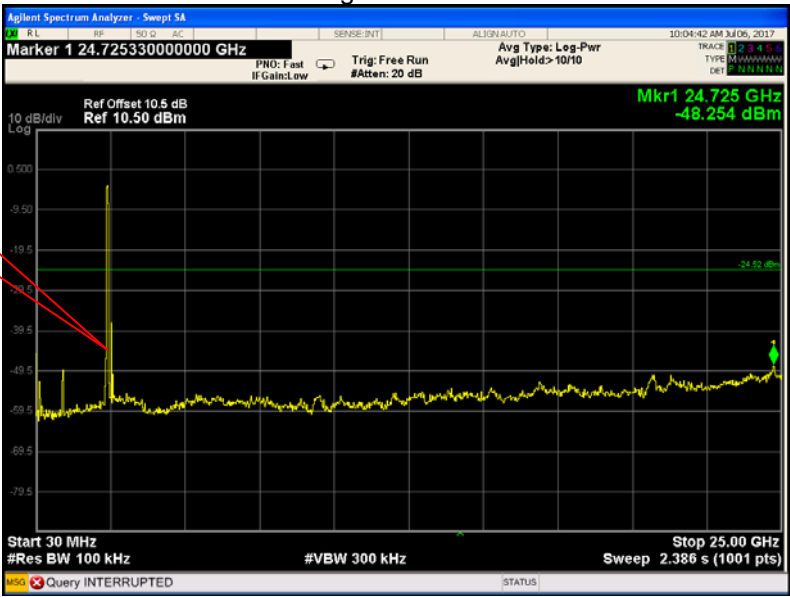
Middle Channel

Fundamental



High Channel

Fundamental



11 Band Edge Measurement

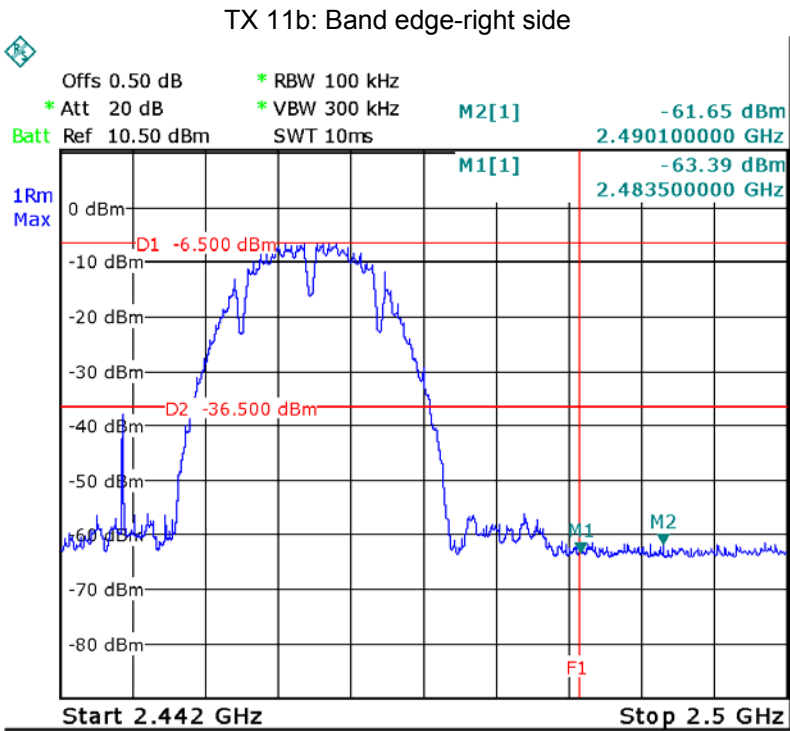
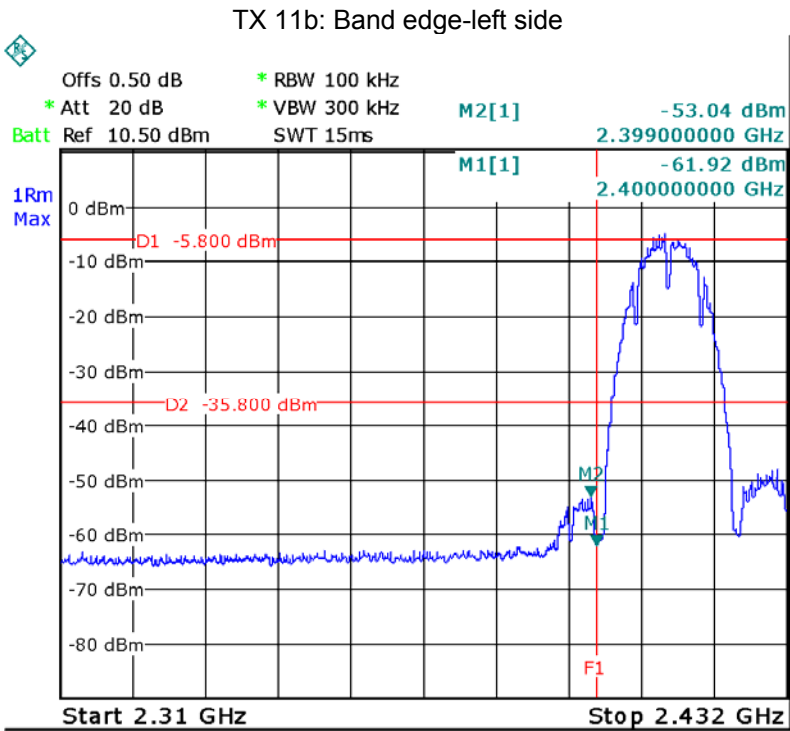
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio 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

11.1 Test Produce

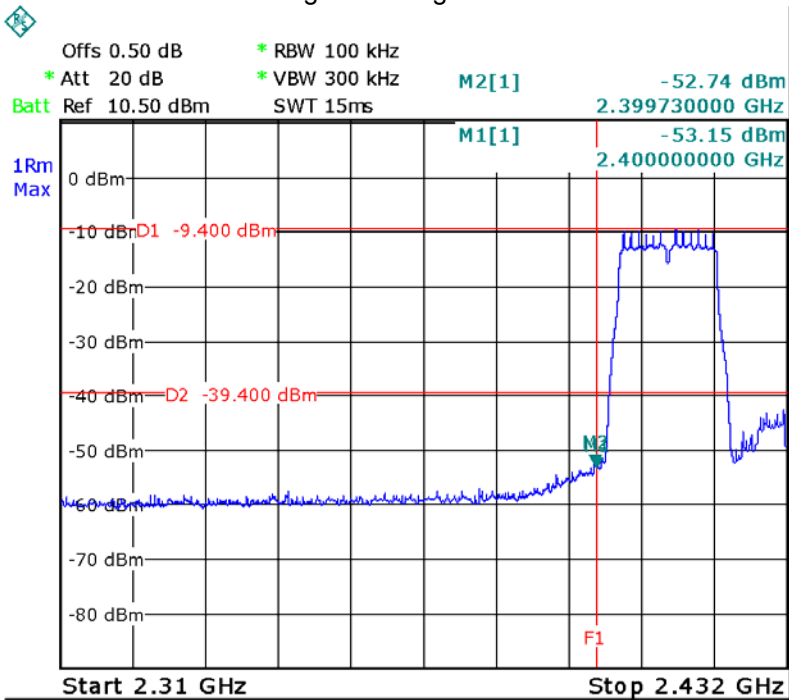
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

11.2 Test Result

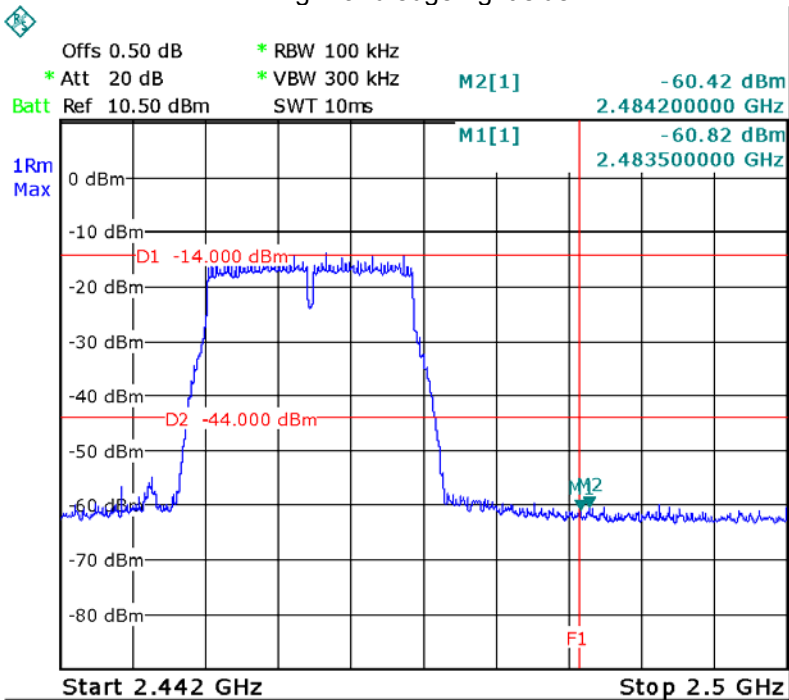
Test result plots shown as follows:

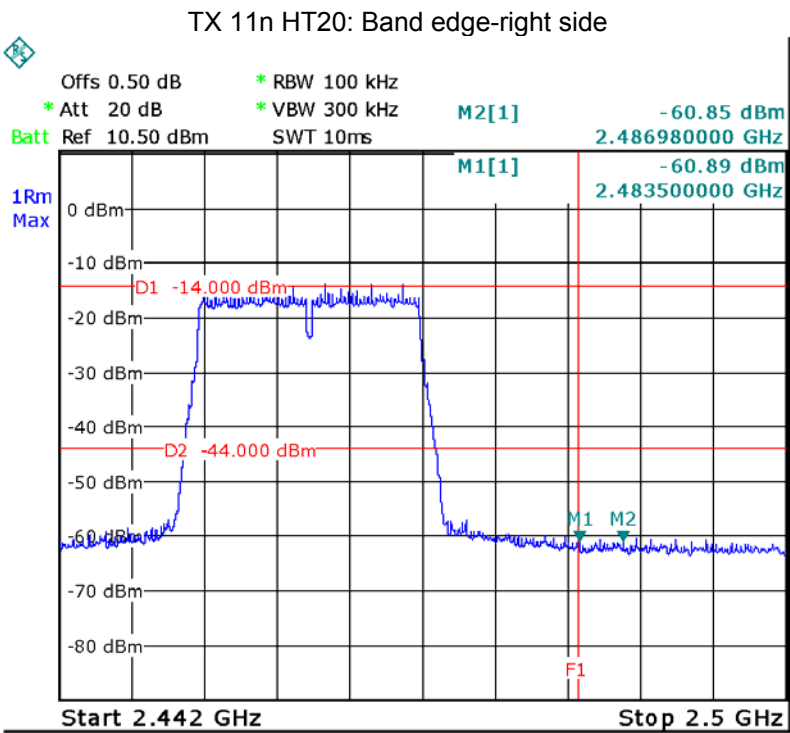
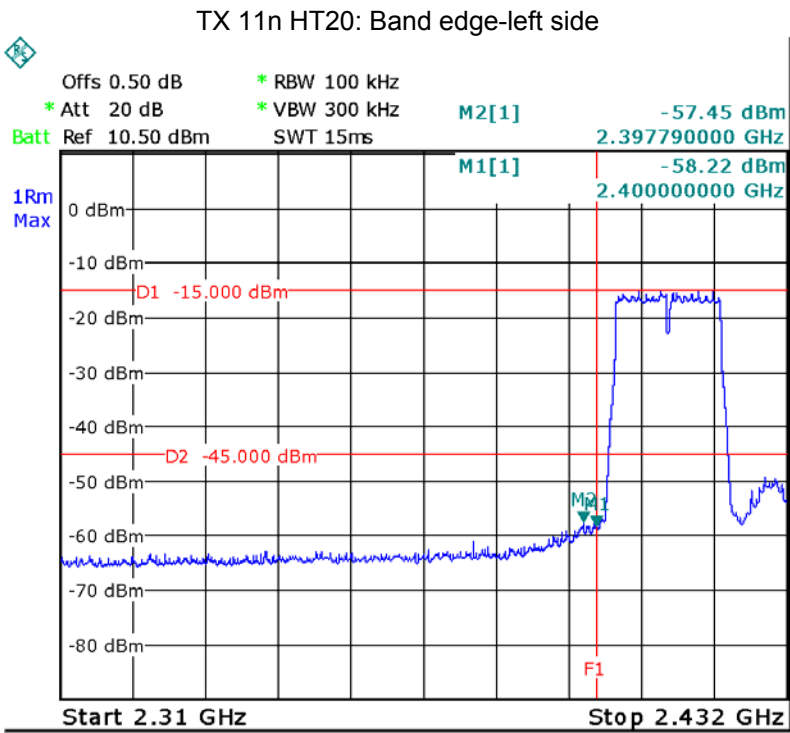


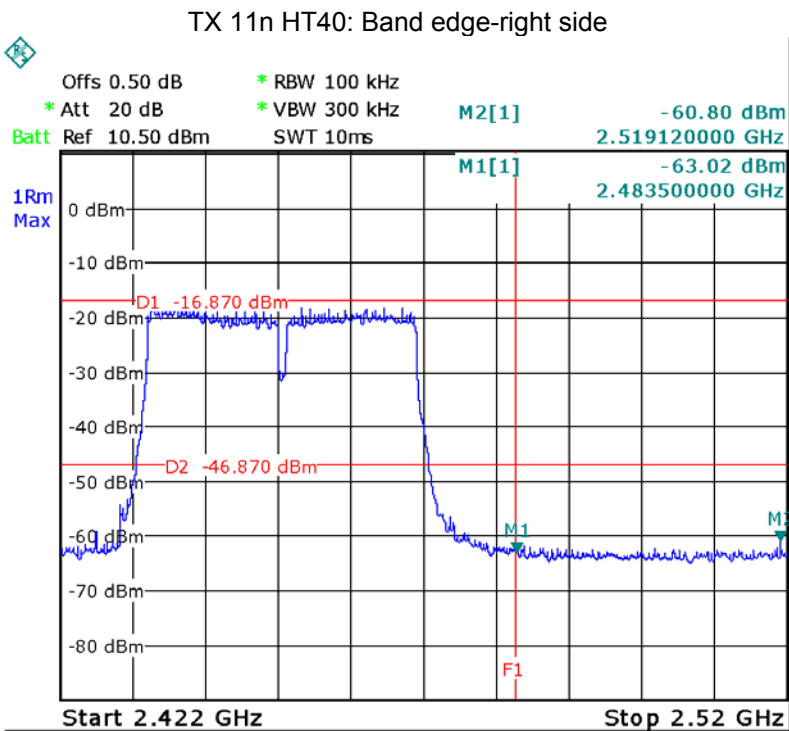
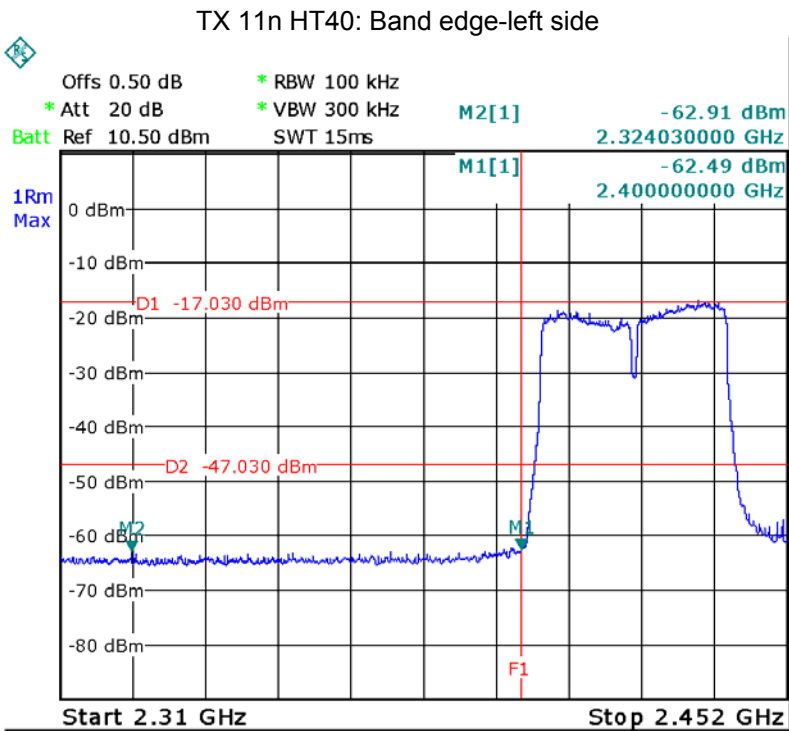
TX 11g: Band edge-left side



TX 11g: Band edge-right side







6 dB Bandwidth Measurement

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

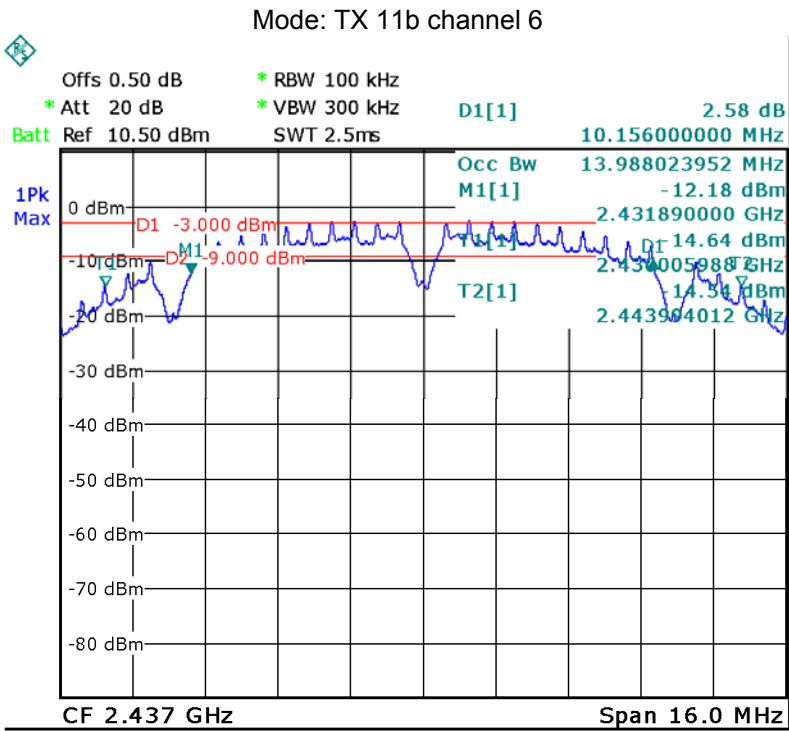
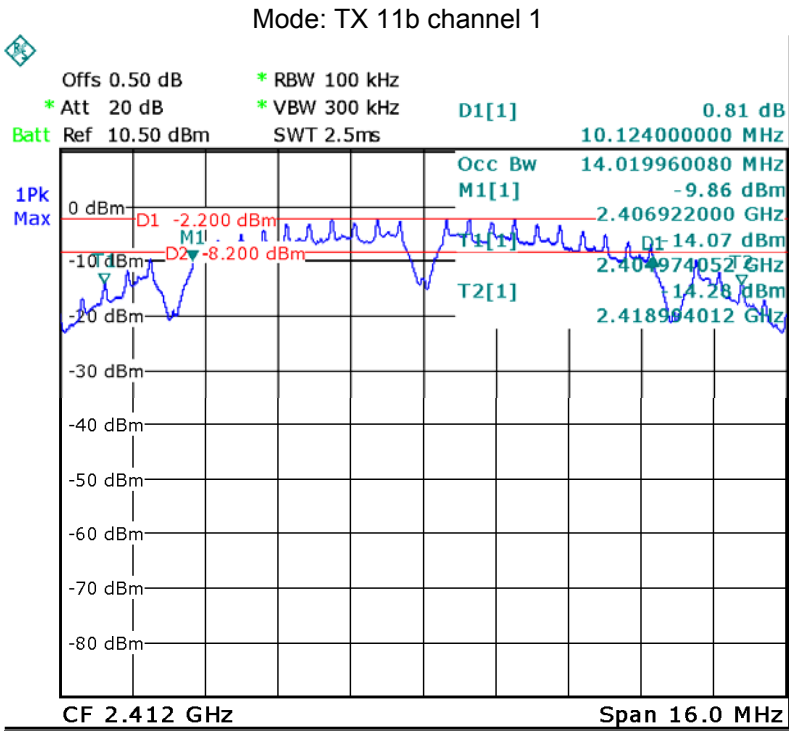
11.3 Test Procedure:

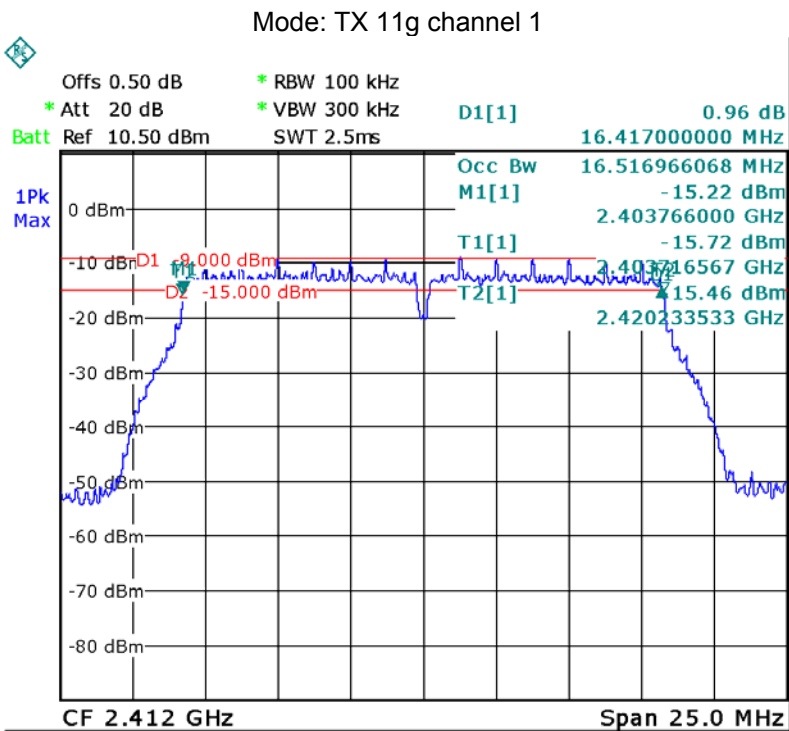
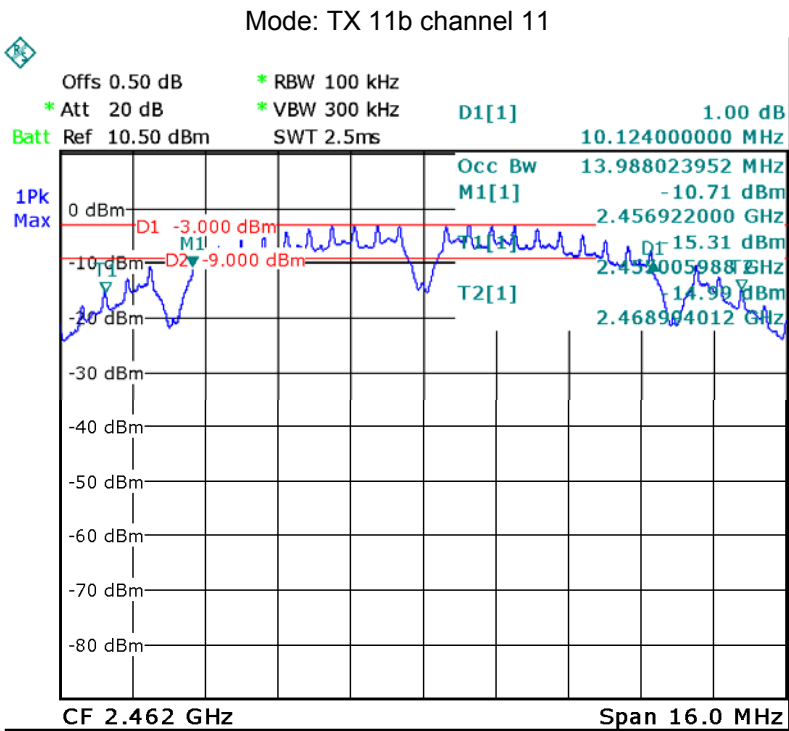
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer: RBW = 100kHz, VBW = 300kHz

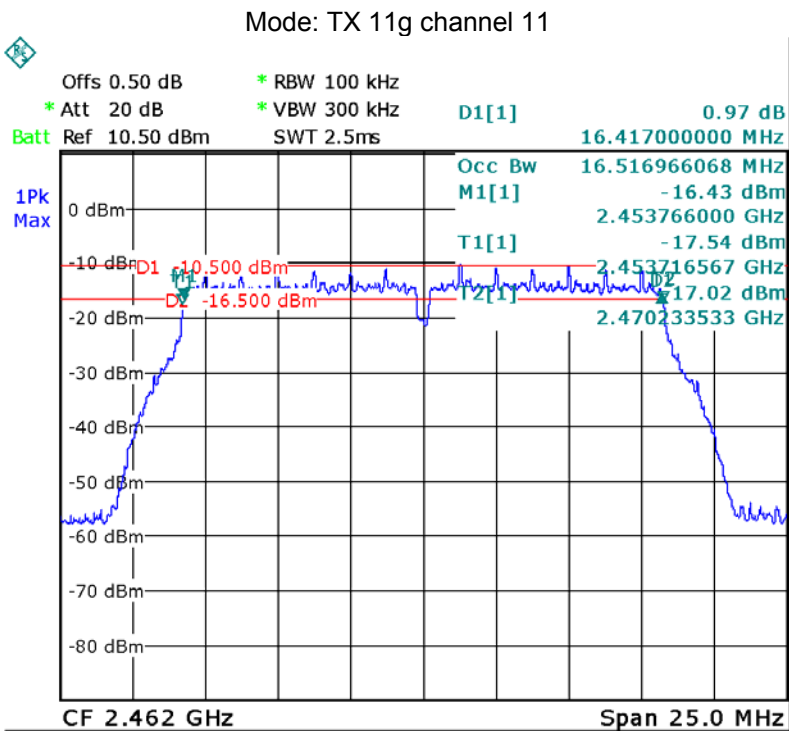
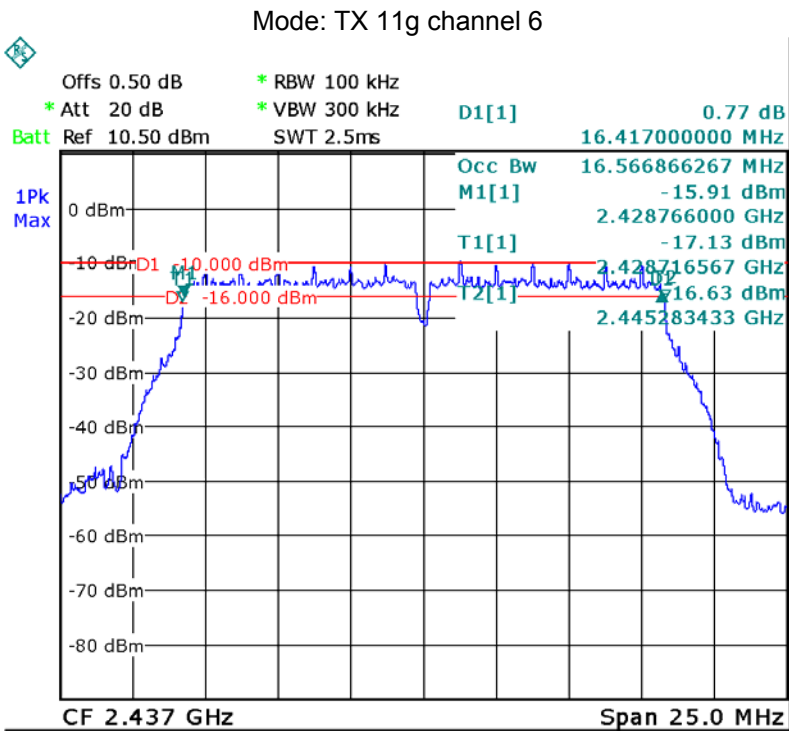
11.4 Test Result:

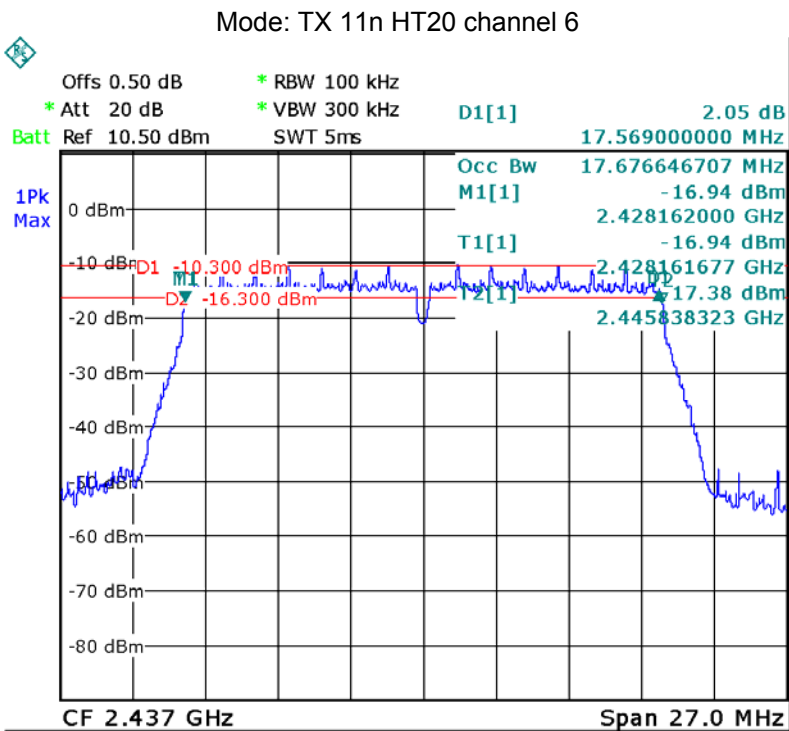
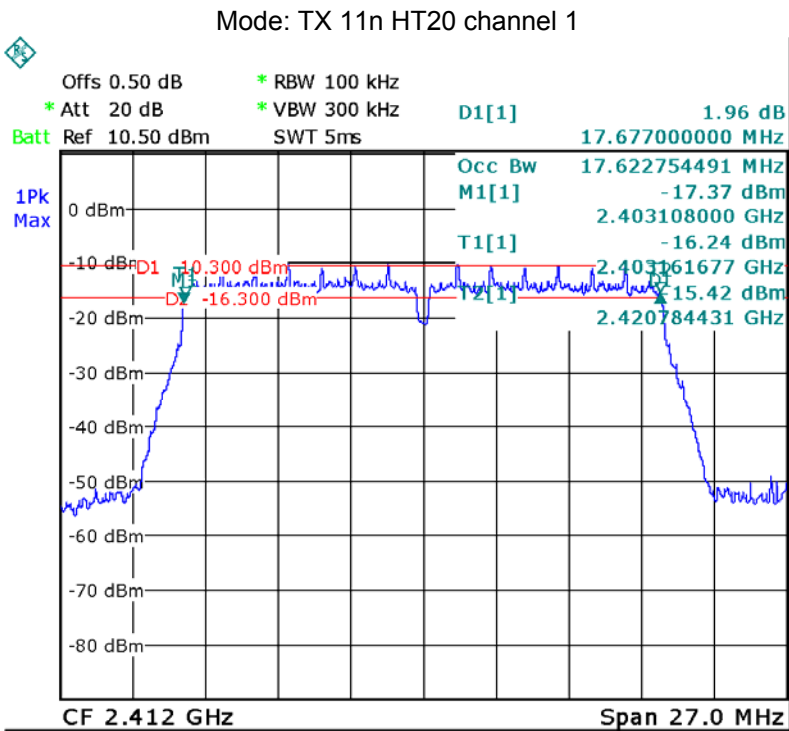
Operation mode	Test Channel	Bandwidth (MHz)	Limit (kHz)
TX 11b	Channel 1	10.124	500
	Channel 6	10.156	500
	Channel 11	10.124	500
TX 11g	Channel 1	16.417	500
	Channel 6	16.417	500
	Channel 11	16.417	500
TX 11n HT20	Channel 1	17.677	500
	Channel 6	17.569	500
	Channel 11	17.569	500
TX 11n HT40	Channel 3	36.010	500
	Channel 6	36.010	500
	Channel 9	36.010	500

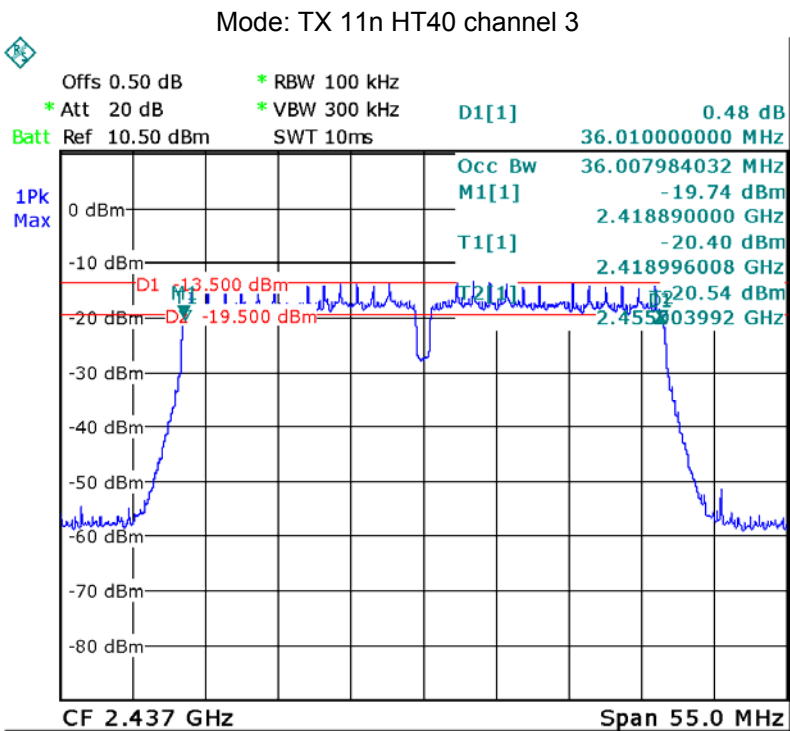
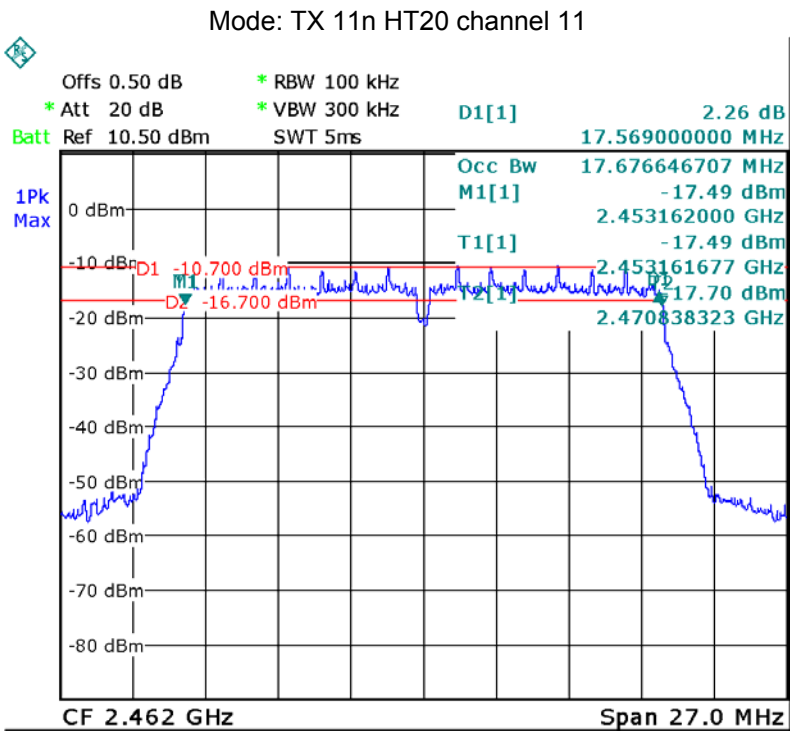
Test result plot:

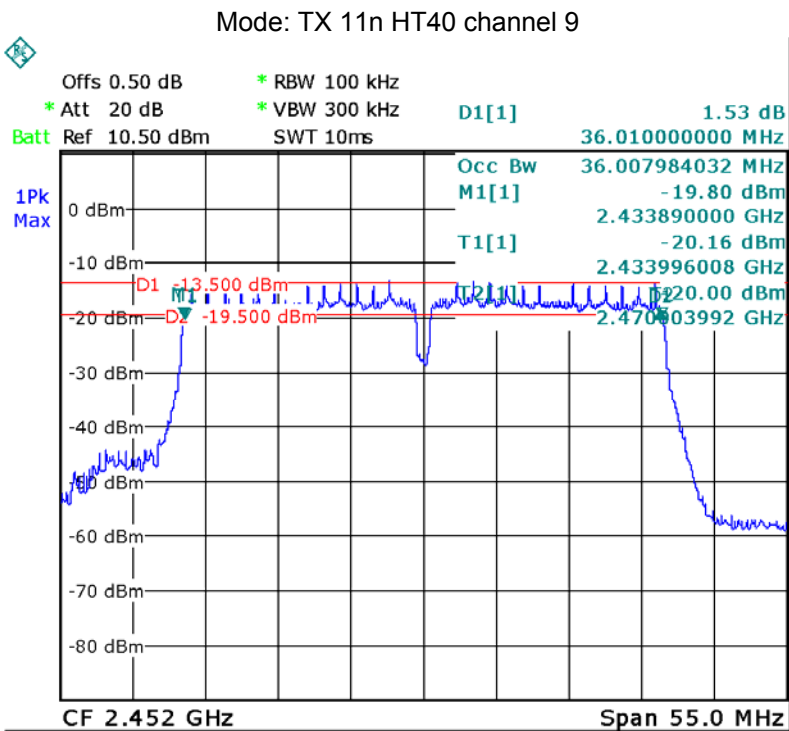
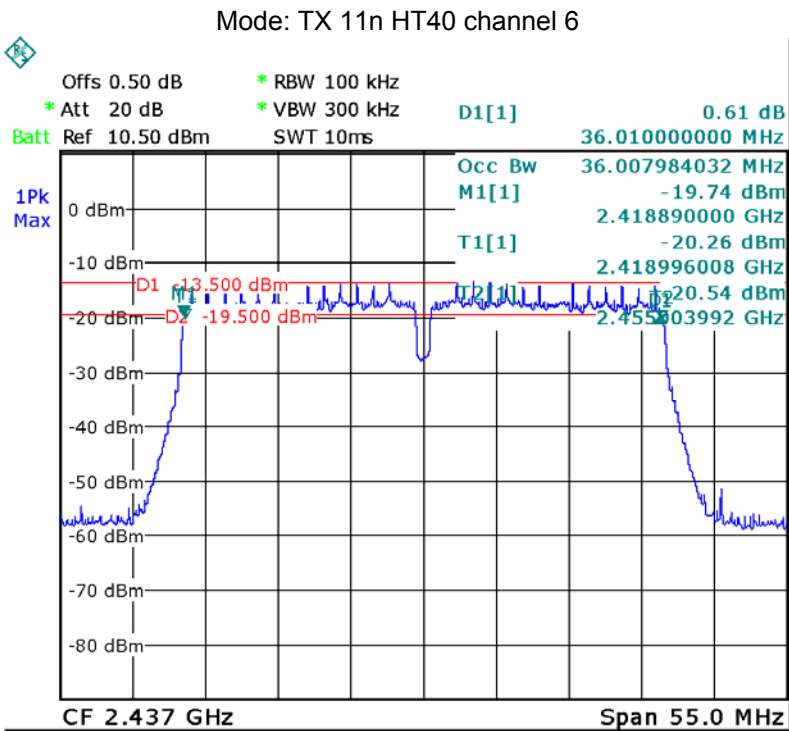












12 Maximum Peak Output Power

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

12.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

section 9.1.1 (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 9.1.2 (For WIFI)

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

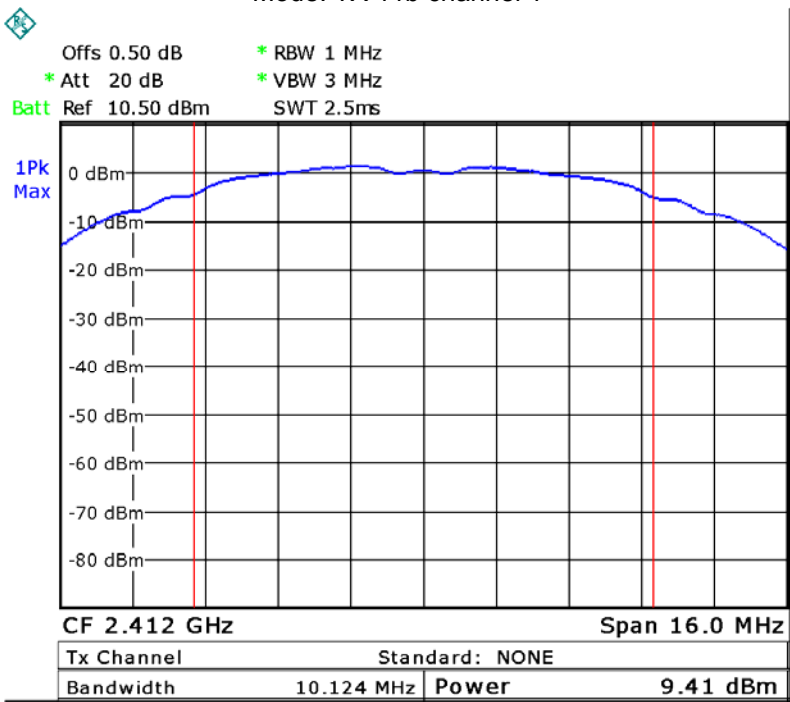
- a) Set the $RBW = 1 \text{ MHz}$.
- b) Set the $VBW \geq 3 \times RBW$
- c) Set the $span \geq 1.5 \times DTS$ bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function with the band limits set equal to the DTS bandwidth edges (for some instruments, this may require a manual override to select peak detector). If the instrument does not have a band power function, sum the spectrum levels (in linear power units) at intervals equal to the RBW extending across the DTS bandwidth.

12.2 Test Result:

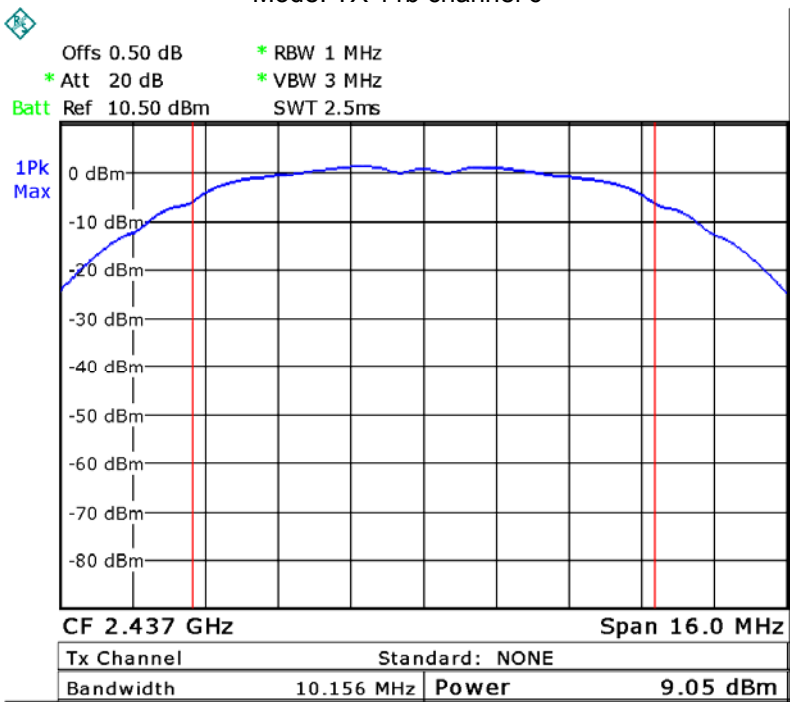
Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
TX 11b	Low-2412	9.41	1W/30dBm
	Middle-2437	9.05	1W/30dBm
	High-2462	9.14	1W/30dBm
TX 11g	Low-2412	9.26	1W/30dBm
	Middle-2437	9.32	1W/30dBm
	High-2462	9.07	1W/30dBm
TX 11n HT20	Low-2412	9.21	1W/30dBm
	Middle-2437	9.40	1W/30dBm
	High-2462	9.22	1W/30dBm
TX 11n HT40	Low-2422	9.49	1W/30dBm
	Middle-2437	9.10	1W/30dBm
	High-2452	9.15	1W/30dBm

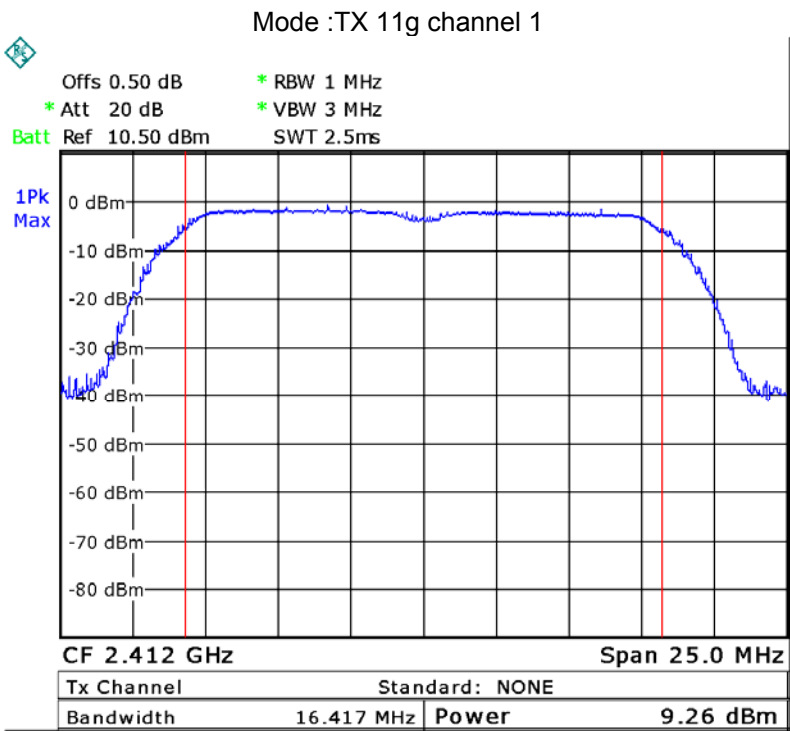
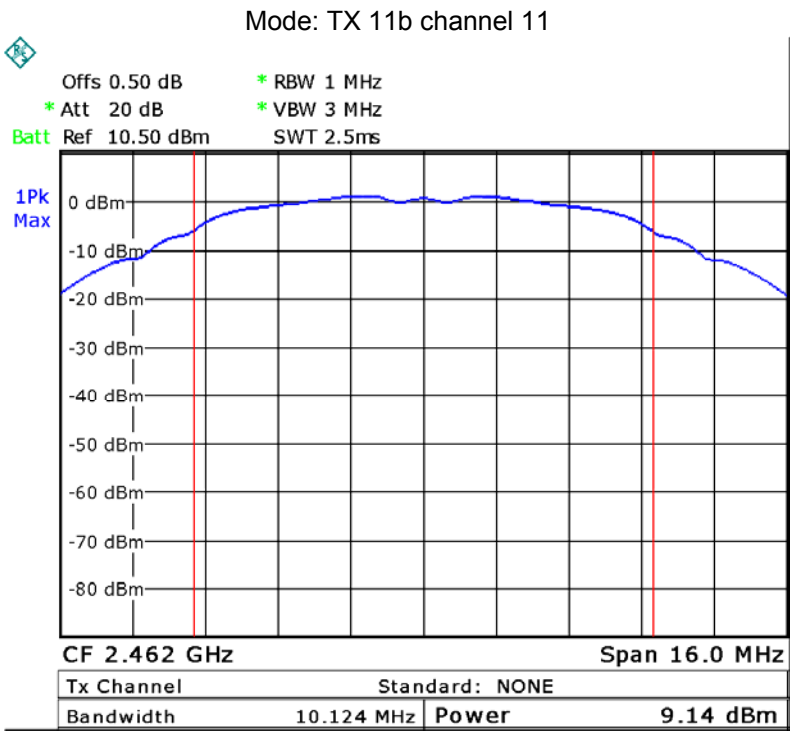
Test Plot

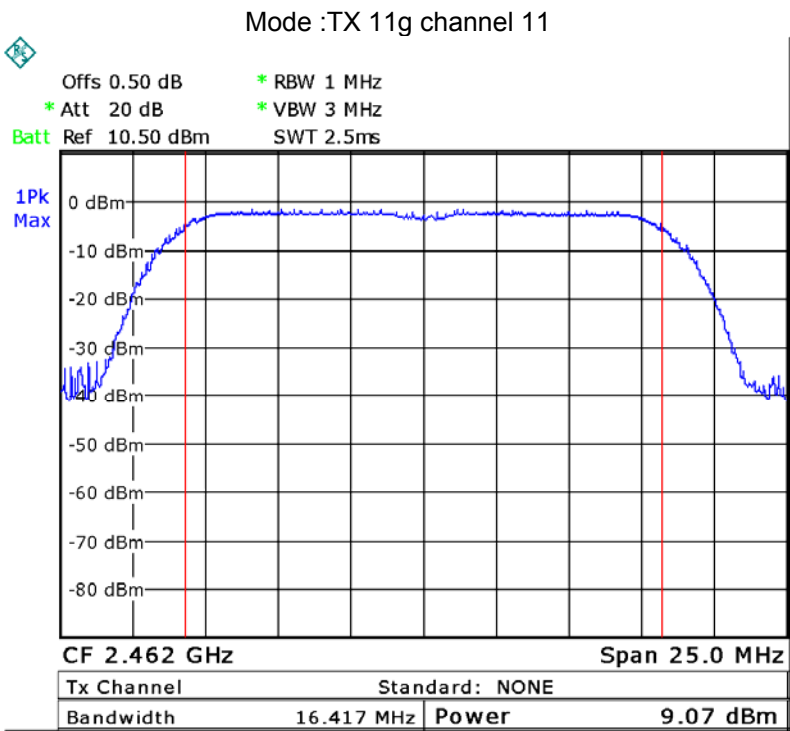
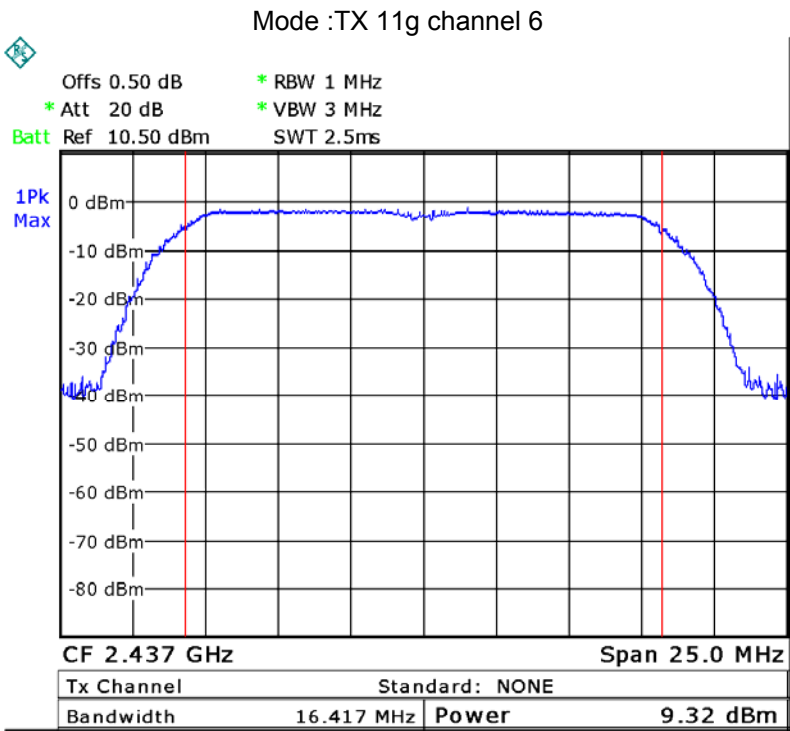
Mode: TX 11b channel 1

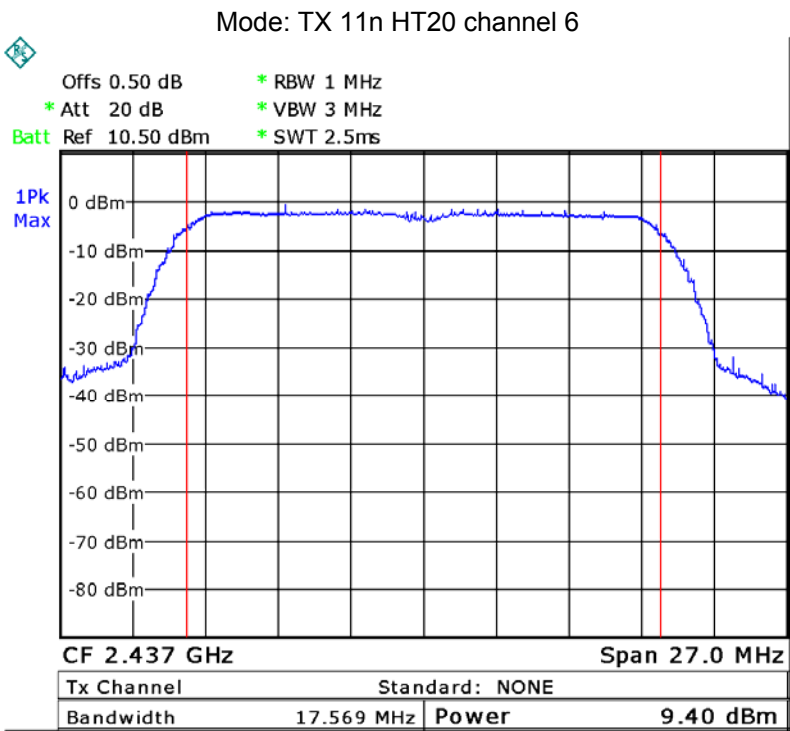
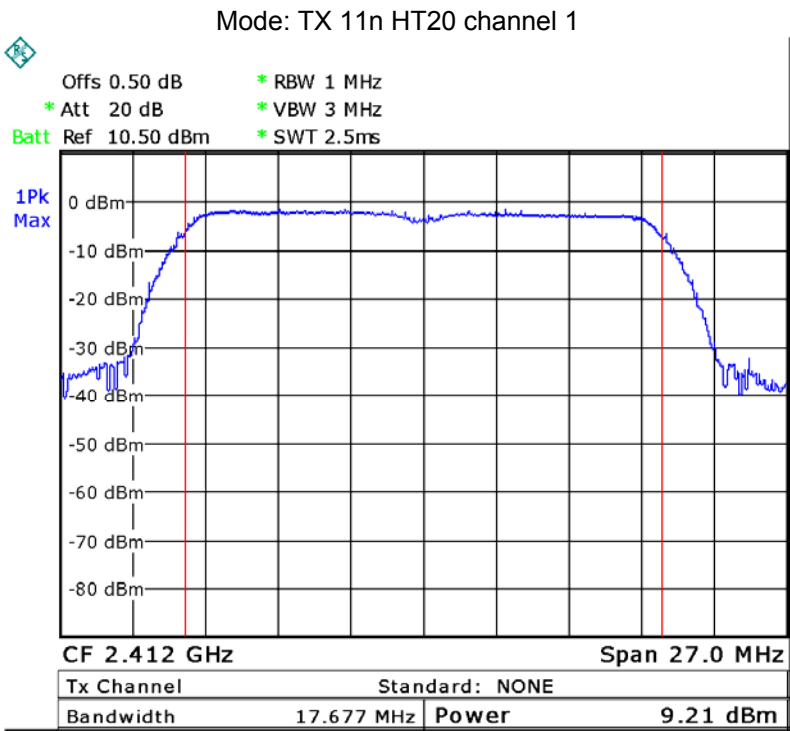


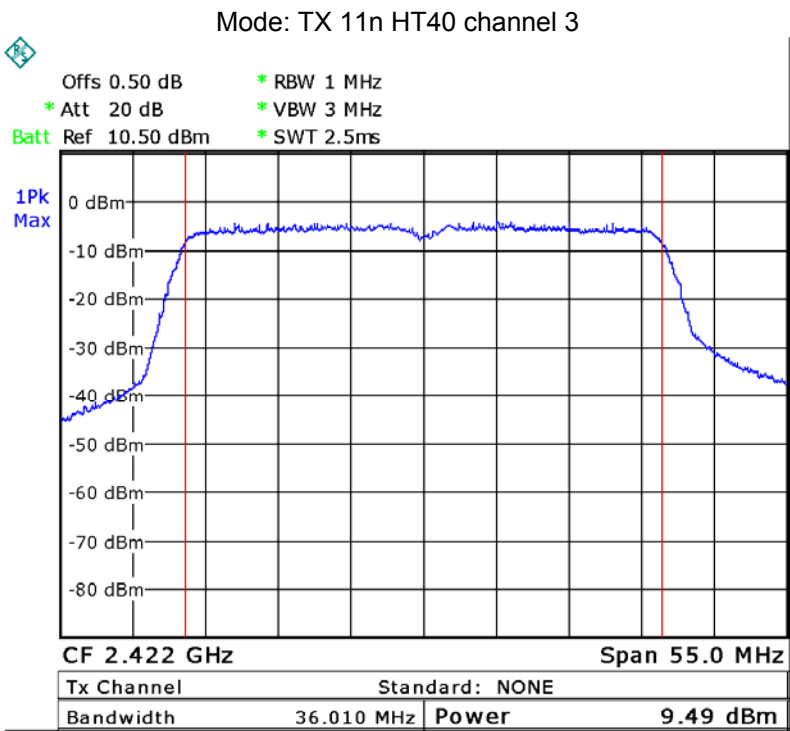
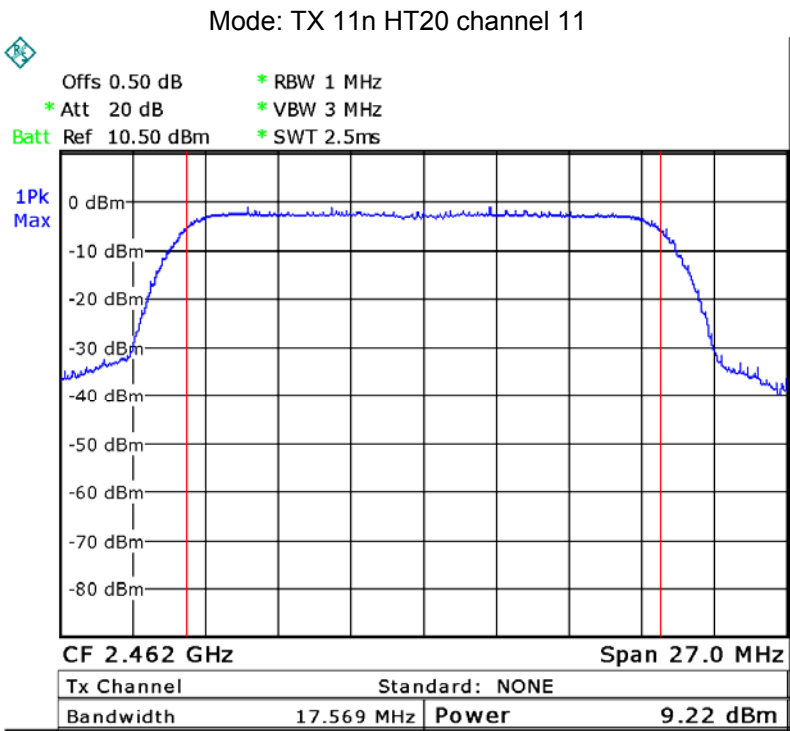
Mode: TX 11b channel 6

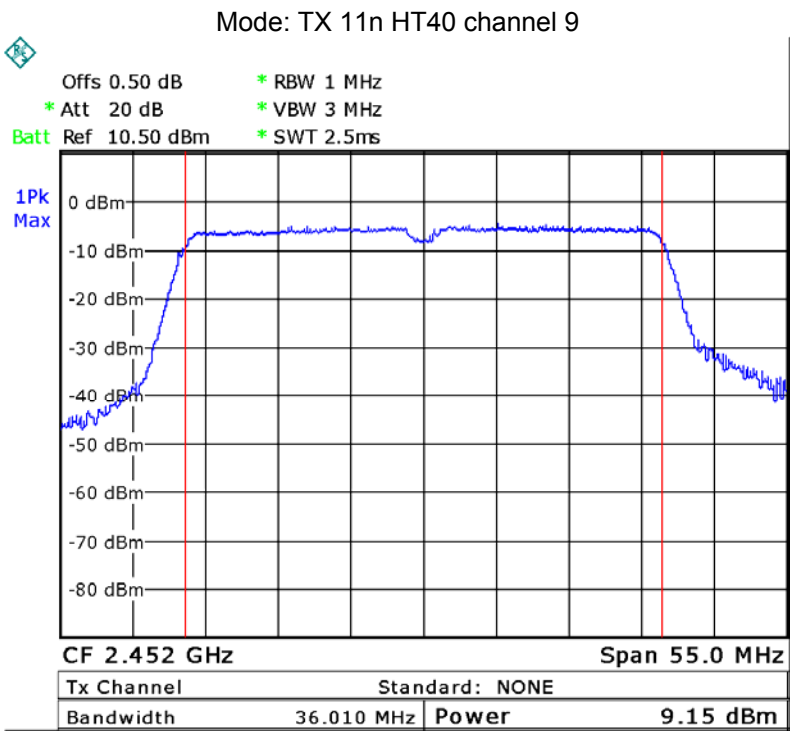
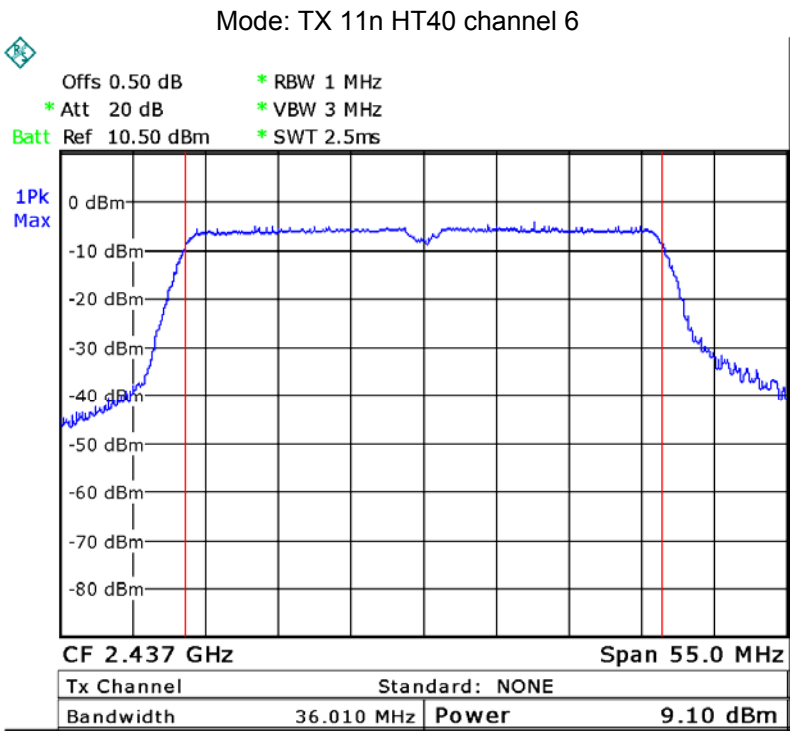












13 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016

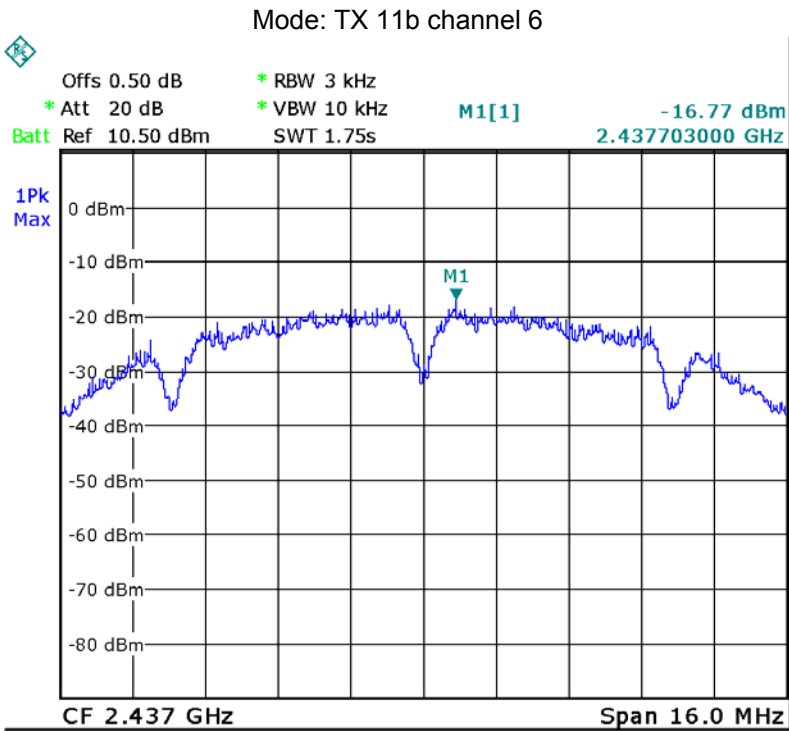
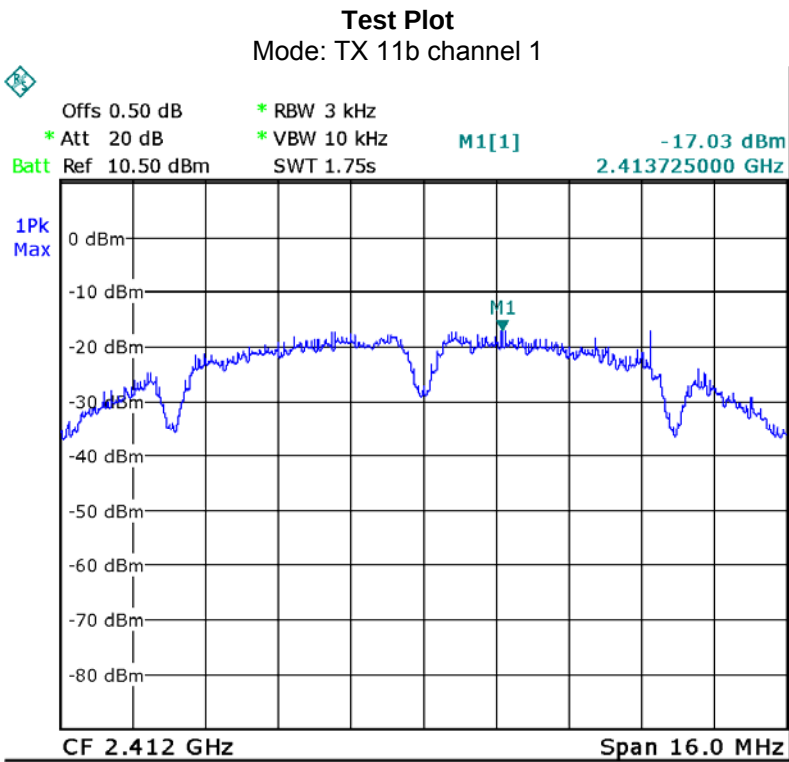
13.1 Test Procedure:

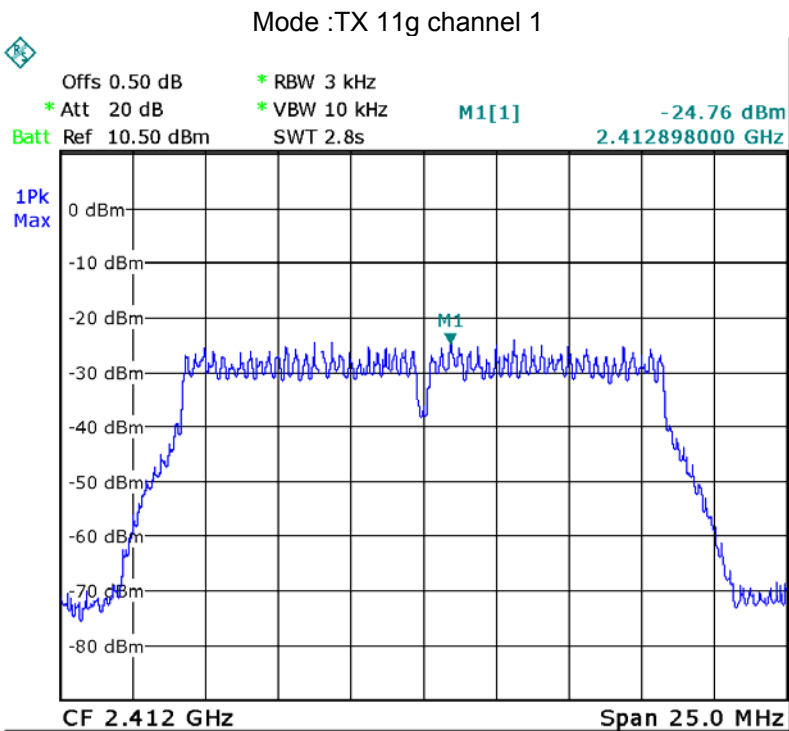
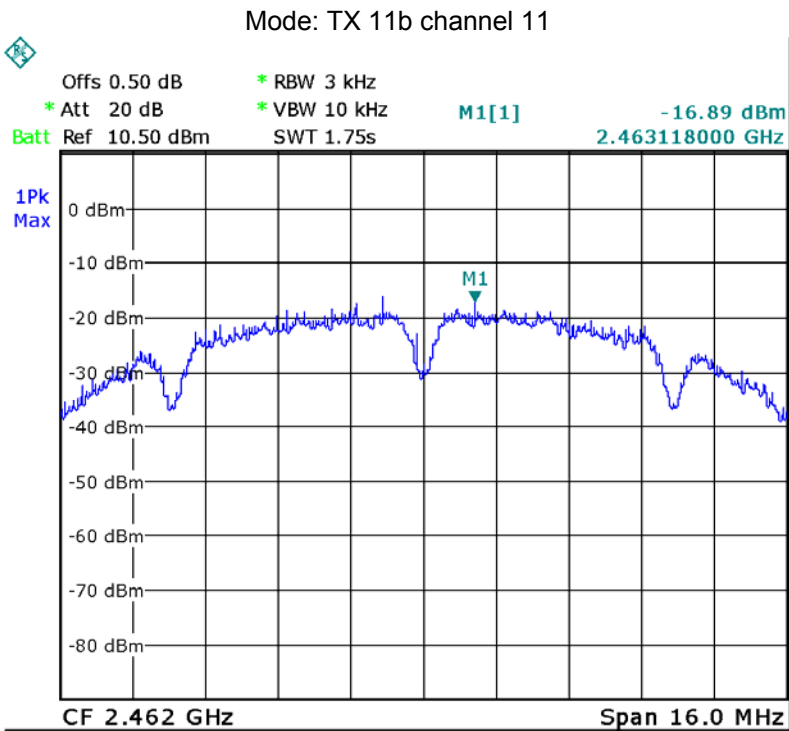
KDB 558074 D01 DTS Meas Guidance v03r05 April 8, 2016 section 10.2

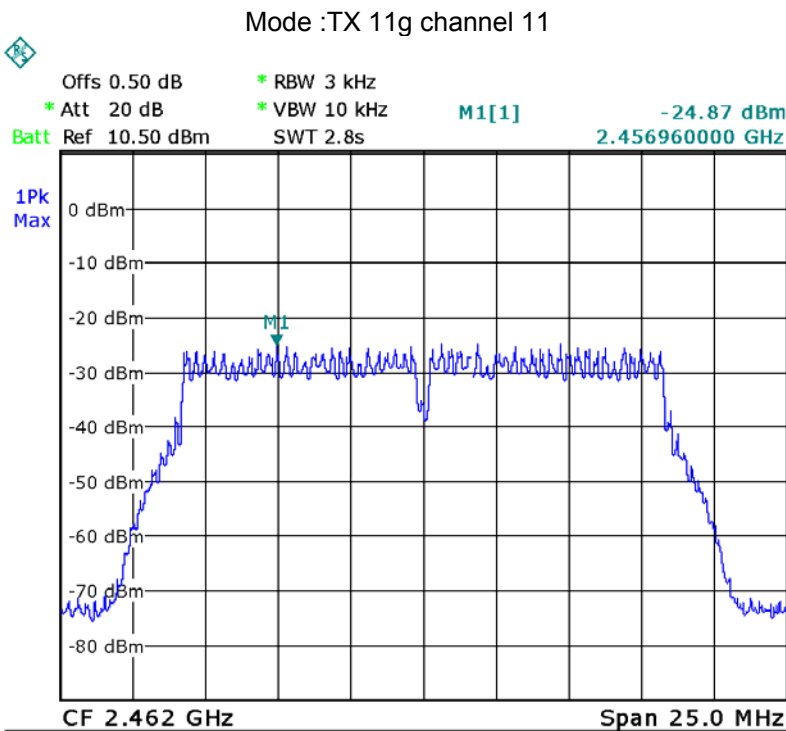
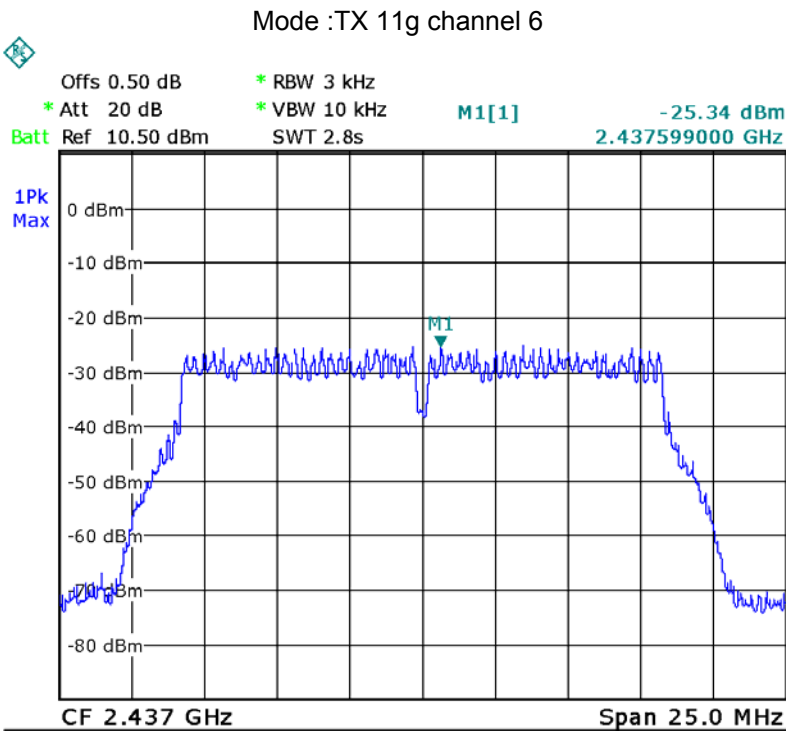
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to 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.

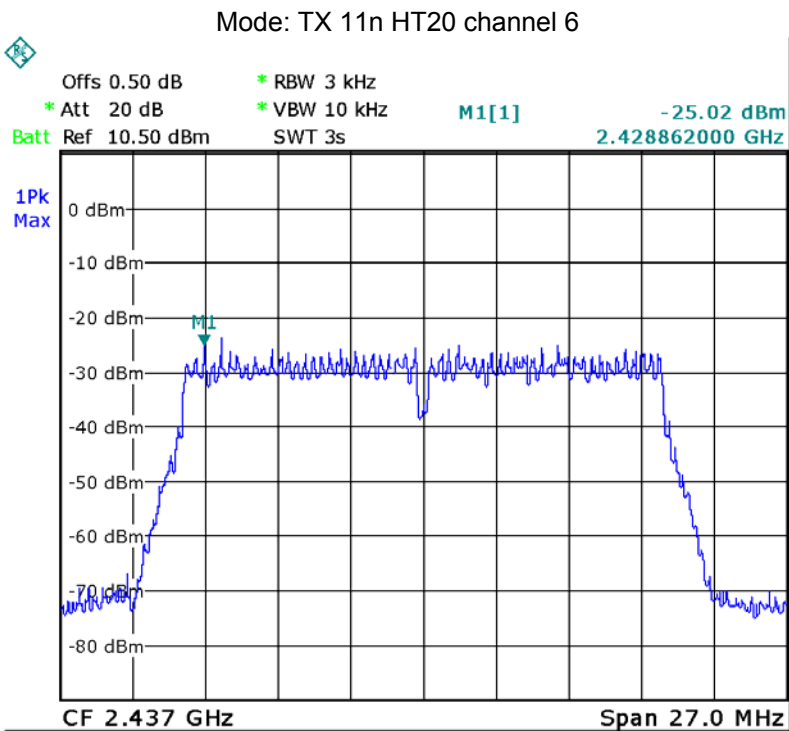
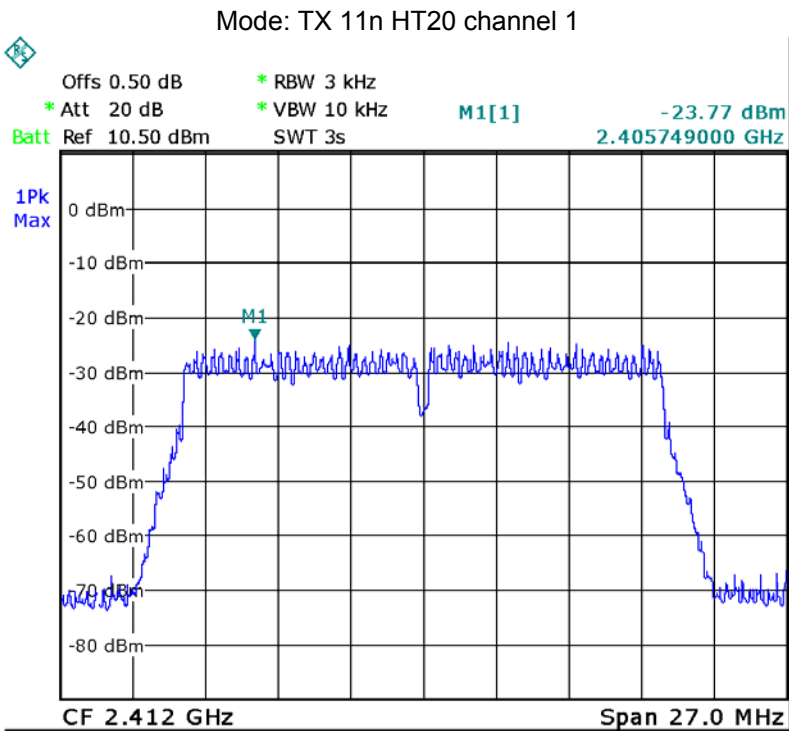
13.2 Test Result:

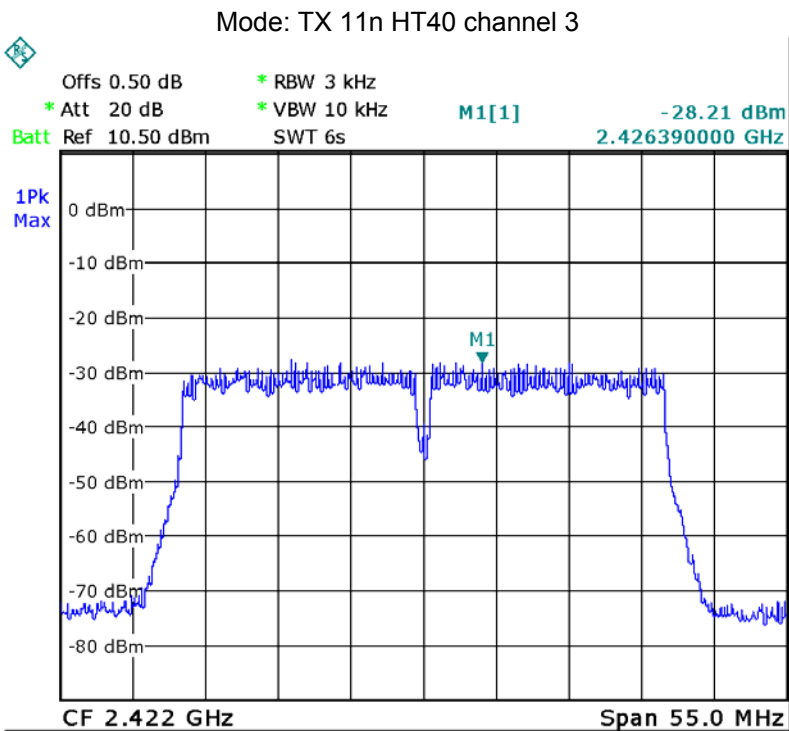
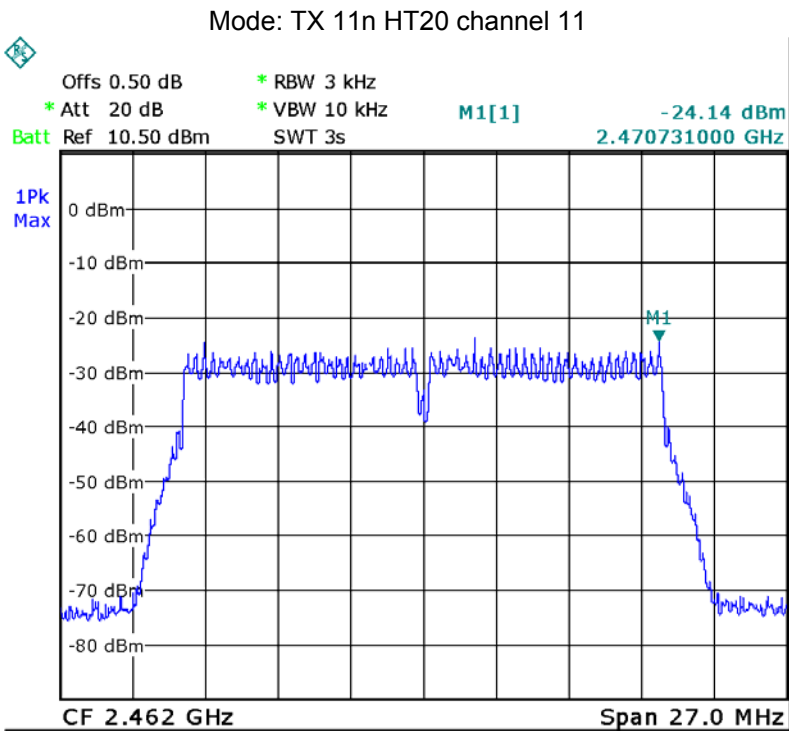
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
TX 11b	Low-2412	-17.03	8dBm per 3kHz
	Middle-2437	-16.77	8dBm per 3kHz
	High-2462	-16.89	8dBm per 3kHz
TX 11g	Low-2412	-24.76	8dBm per 3kHz
	Middle-2437	-25.34	8dBm per 3kHz
	High-2462	-24.87	8dBm per 3kHz
TX 11n HT20	Low-2412	-23.77	8dBm per 3kHz
	Middle-2437	-25.02	8dBm per 3kHz
	High-2462	-24.14	8dBm per 3kHz
TX 11n HT40	Low-2422	-28.21	8dBm per 3kHz
	Middle-2437	-27.13	8dBm per 3kHz
	High-2452	-28.39	8dBm per 3kHz

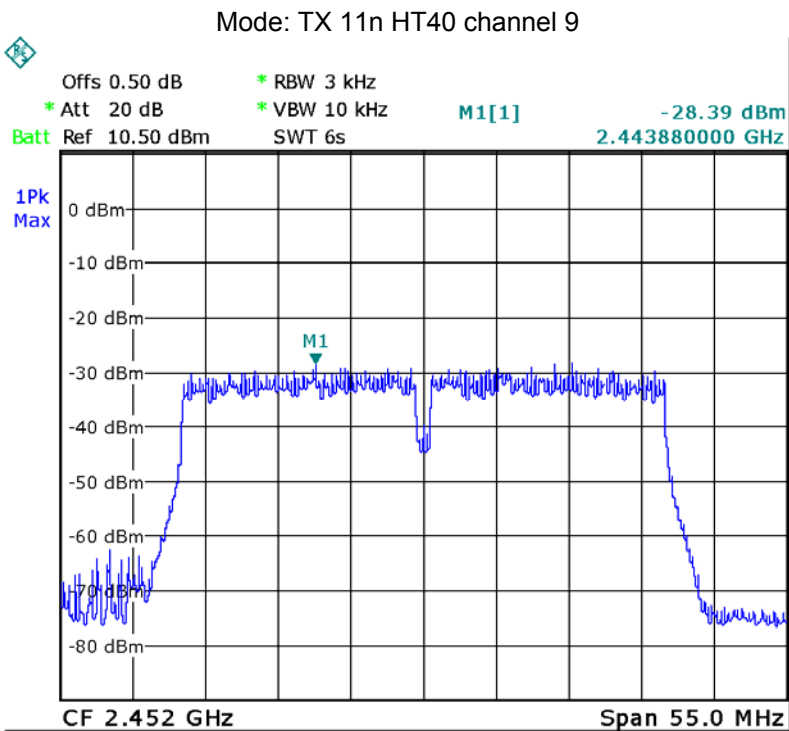
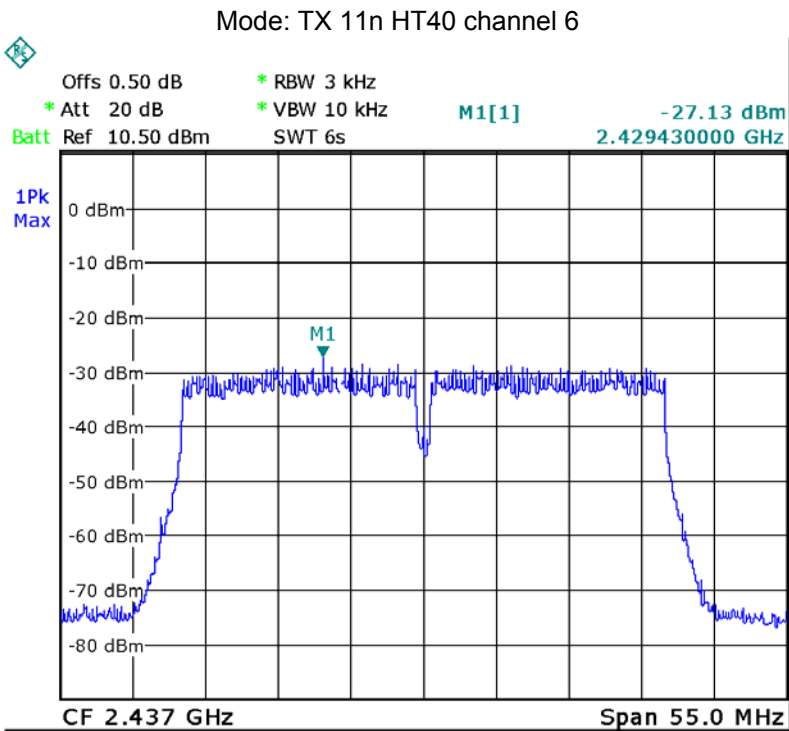












14 Antenna Requirement

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.

15 RF Exposure

Remark: refer to SAR test report: WTS17S0681755E.

16 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS17S0681754E_Photo.

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