

TEST REPORT

Reference No...... : WTS18S07116993-2W
FCC ID : 2AP7L-WHS4LT
Applicant..... : Whoop International Trading Limited
Address..... : Flat-B 8/F Chong Gming Building 72 Cheung Sha Wan Road,
Kowloon, Hong Kong, China
Manufacturer : The same as above
Address..... : The same as above
Product..... : Dongle
Model(s) : WHS-4LT
Brand Name : MI
Standards..... : FCC CFR47 Part 15.247:2017
Date of Receipt sample : 2018-07-03
Date of Test : 2018-07-04 to 2018-07-27
Date of Issue..... : 2018-07-28
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 (Shenzhen) Co., Ltd is a professional third-party testing and certification laboratory with multi-year product testing and certification experience, established strictly in accordance with ISO/IEC 17025 requirements, and accredited by ILAC (International Laboratory Accreditation Cooperation) member. A2LA (American Association for Laboratory Accreditation) of USA, Meanwhile, Waltek has got recognition as registration and accreditation laboratory from EMSD (Electrical and Mechanical Services Department), and American Energy star, FCC(The Federal Communications Commission), CEC(California energy efficiency), IC(Industry Canada). It's the strategic partner and data recognition laboratory of international authoritative organizations, such as Intertek(ETL-SEMKO), TÜV Rheinland, TÜV SÜD, etc.



Waltek Services (Shenzhen) Co., Ltd is one of the largest and the most comprehensive third party testing laboratory in China. Our test capability covered four large fields: safety test. Electro Magnetic Compatibility (EMC), and energy performance, wireless radio. As a professional, comprehensive, justice international test organization, we still keep the scientific and rigorous work attitude to help each client satisfy the international standards and assist their product enter into globe market smoothly.

Test Facility:**A. Accreditations for Conformity Assessment (International)**

Country/Region	Accreditation Body	Scope	Note
USA	A2LA (Certificate No.: 4243.01)	FCC ID \ DOC \ VOC	1
Canada		IC ID \ VOC	2
Japan		MIC-T \ MIC-R	-
Europe		EMCD \ RED	-
Taiwan		NCC	-
Hong Kong		OFCA	-
Australia		RCM	-
India		International Services	WPC
Thailand	NTC		-
Singapore	IDA		-
Note:			
1. FCC Designation No.: CN1201. Test Firm Registration No.: 523476.			
2. IC Canada Registration No.: 7760A			

B. TCBs and Notify Bodies Recognized Testing Laboratory.

Recognized Testing Laboratory of ...	Notify body number
TUV Rheinland	Optional.
Intertek	
TUV SUD	
SGS	
Phoenix Testlab GmbH	0700
Element Materials Technology Warwick Ltd	0891
Timco Engineering, Inc.	1177
Eurofins Product Service GmbH	0681

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4 Revision History

Test report No.	Date of Receipt sample	Date of Test	Date of Issue	Purpose	Comment	Approved
WTS18S07116 993-2W	2018-07-03	2018-07-04 to 2018-07- 27	2018-07-28	original	-	Valid

5 General Information

5.1 General Description of E.U.T.

Product:	Dongle
Model(s):	WHS-4LT
Model Description:	N/A
GSM Band(s):	N/A
GPRS/EGPRS Class:	N/A
WCDMA Band(s):	FDD Band II/V
LTE Band(s):	FDD Band 2/4/12/66
Wi-Fi Specification:	2.4G-802.11b/g/n HT20/n HT40
GPS:	N/A
NFC:	N/A
Hardware Version:	MF7_Main_V1.0
Software Version:	MF7_U203_SMT02_20180709
Highest frequency (Exclude Radio):	26MHz
Storage Location:	Internal Storage

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 12: 699~716MHz LTE Band 66: 1701~1780MHz WiFi: 802.11b/g/n HT20: 2412~2462MHz 802.11n HT40: 2422~2452MHz
Max. RF output power:	WCDMA Band II: 22.23dBm WCDMA Band V: 22.10dBm LTE Band 2: 22.94dBm LTE Band 4: 22.88dBm LTE Band 12: 22.86dBm LTE Band 66: 21.89dBm WiFi(2.4G): 9.65dBm
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: 0.5dBi WCDMA Band V: 0.3dBi LTE Band 2: 0.5dBi LTE Band 4: 0.6dBi LTE Band 12: -0.1dBi LTE Band 66: 0.6dBi WiFi(2.4G): 2.9dBi
Ratings:	DC 5V from USB

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 .

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	2017-09-12	2018-09-11
2.	LISN	R&S	ENV216	101215	2017-09-12	2018-09-11
3.	Cable	Top	TYPE16(3.5M)	-	2017-09-12	2018-09-11
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	2017-09-12	2018-09-11
2.	LISN	SCHWARZBECK	NSLK 8128	8128-289	2017-09-12	2018-09-11
3.	Limiter	York	MTS-IMP-136	261115-001-0024	2017-09-12	2018-09-11
4.	Cable	LARGE	RF300	-	2017-09-12	2018-09-11
3m Semi-anechoic Chamber for Radiation Emissions Test site 1#						
Item	Equipment	Manufacturer	Model No.	Serial No.	Last Calibration Date	Calibration Due Date
1	Spectrum Analyzer	R&S	FSP	100091	2018-04-29	2019-04-28
2	Active Loop Antenna	Beijing Dazhi	ZN30900A	-	2018-04-09	2019-04-08
3	Trilog Broadband Antenna	SCHWARZBECK	VULB9163	336	2018-04-09	2019-04-08
4	Coaxial Cable (below 1GHz)	Top	TYPE16(13M)	-	2017-09-12	2018-09-11
5	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9120 D	667	2018-04-09	2019-04-08
6	Broad-band Horn Antenna	SCHWARZBECK	BBHA 9170	335	2018-04-09	2019-04-08
7	Broadband Preamplifier	COMPLIANCE DIRECTION	PAP-1G18	2004	2018-04-13	2019-04-12
8	Coaxial Cable (above 1GHz)	Top	1GHz-25GHz	EW02014-7	2018-04-13	2019-04-12
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	2018-04-13	2019-04-12
2	Trilog Broadband Antenna	SCHWARZBECK	VULB9160	9160-3325	2018-04-09	2019-04-08
3	Amplifier	Compliance direction systems inc	PAP-0203	22024	2018-04-13	2019-04-12
4	Cable	HUBER+SUHNER	CBL2	525178	2018-04-13	2019-04-12

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	2017-09-12	2018-09-11
2.	Spectrum Analyzer (9k-6GHz)	R&S	FSL6	100959	2017-09-12	2018-09-11
3.	Signal Analyzer (9k~26.5GHz)	Agilent	N9010A	MY50520207	2017-09-12	2018-09-11

7.2 Description of Support Units

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

7.3 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	

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

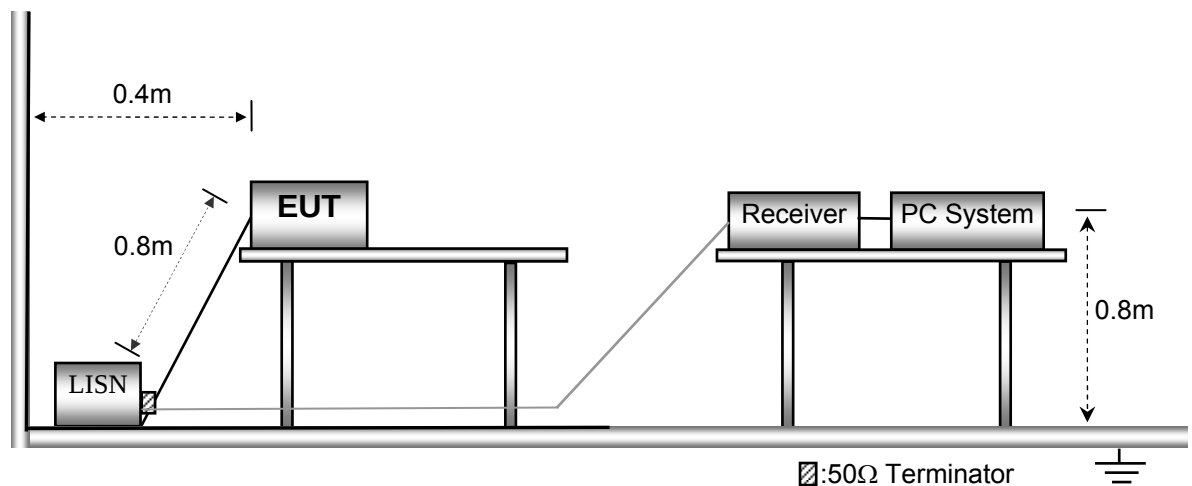
Atmospheric Pressure: 101.2kPa

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

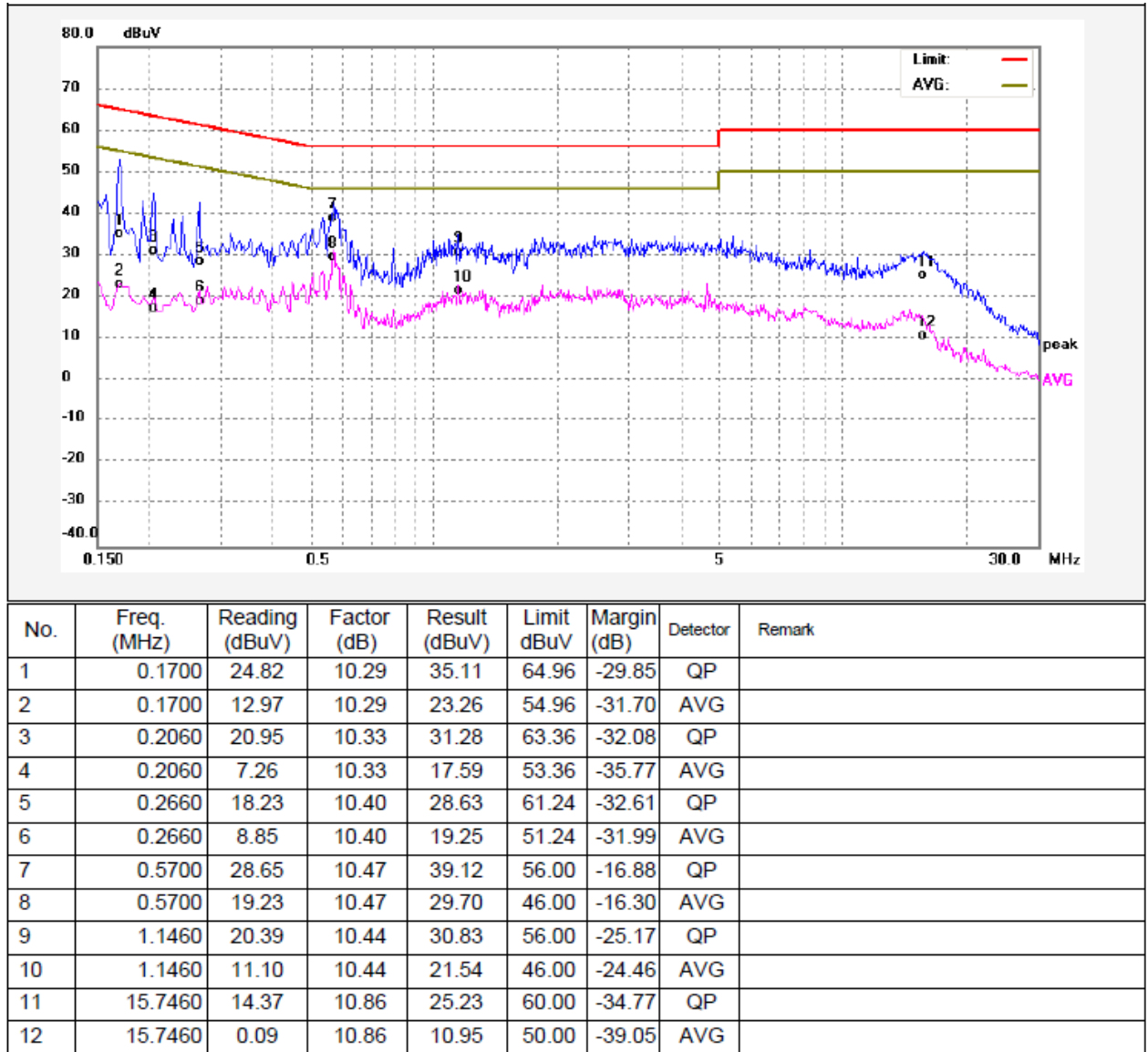
The maximised peak emissions from the EUT was scanned and measured for both the Live and Neutral Lines. Quasi-peak & average measurements were performed if peak emissions were within 6dB of the average limit line.

8.4 Conducted Emission Test Result

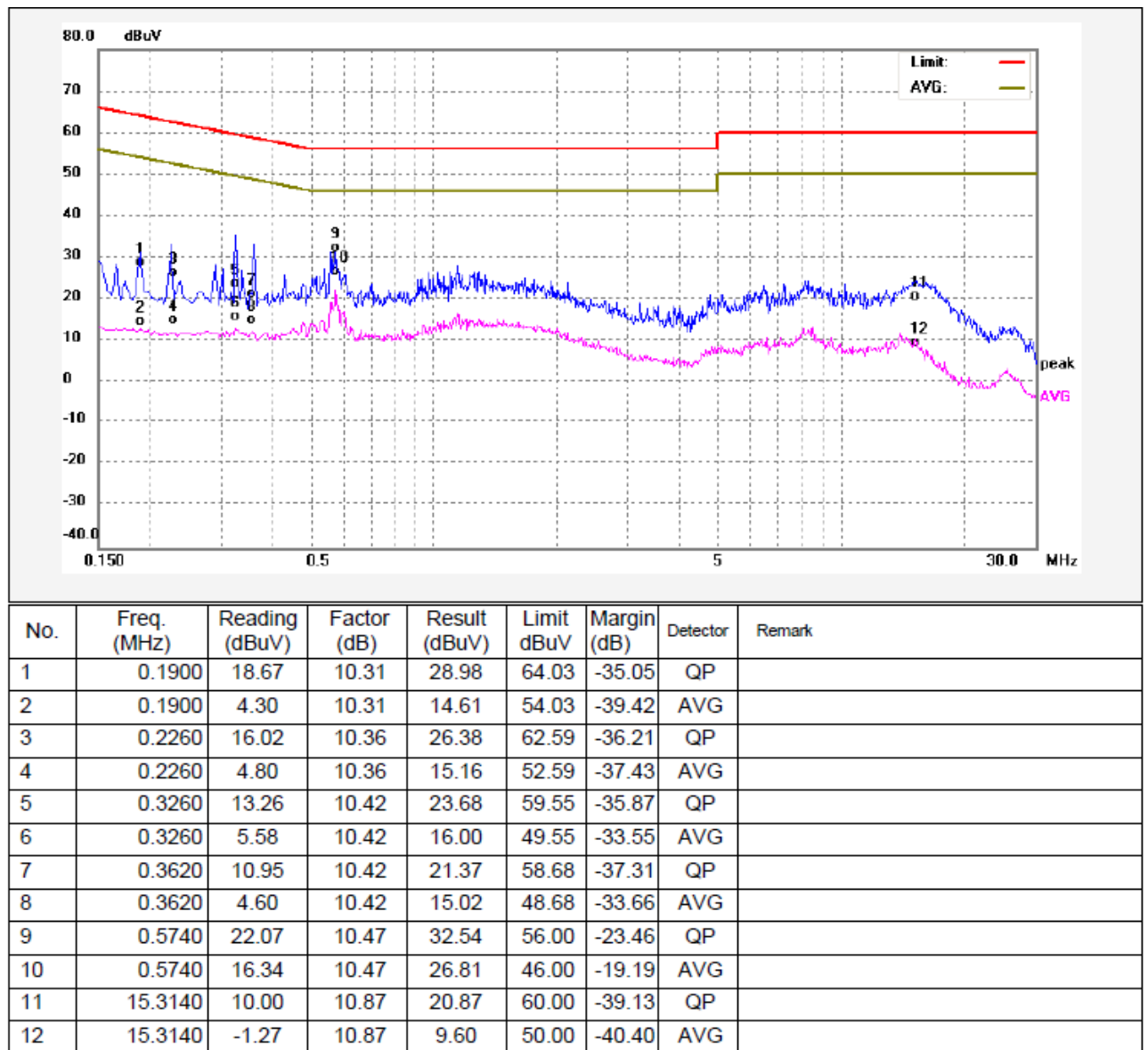
An initial pre-scan was performed on the live and neutral lines.

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

Live line:



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

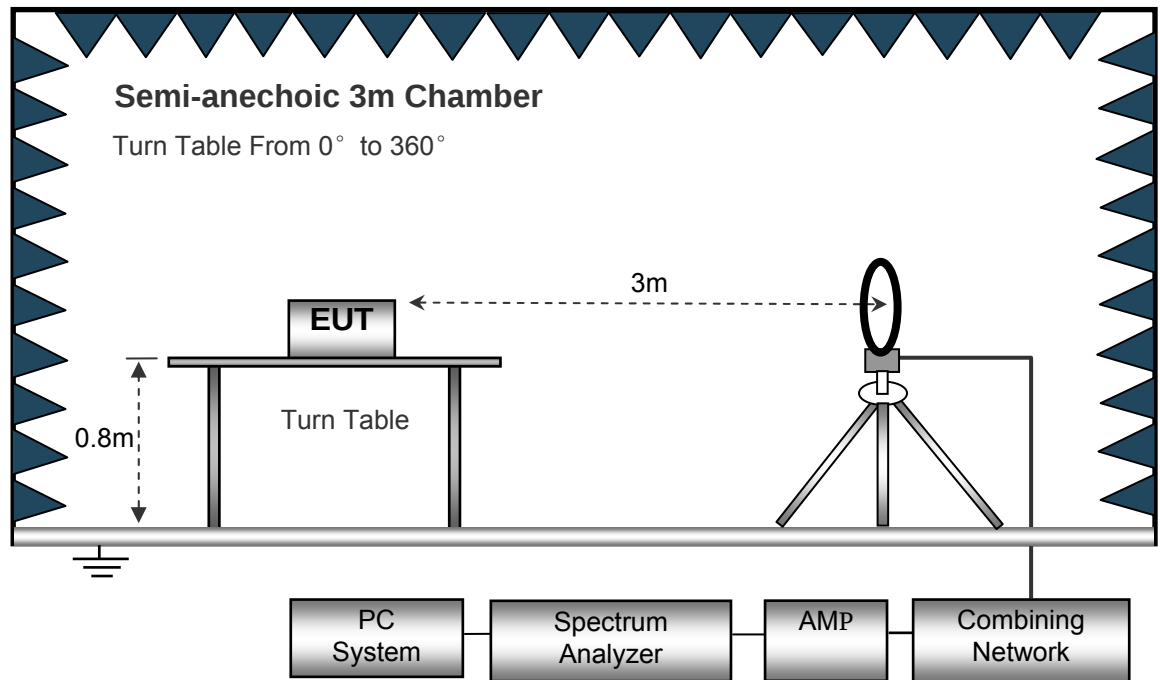
EUT Operation :

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

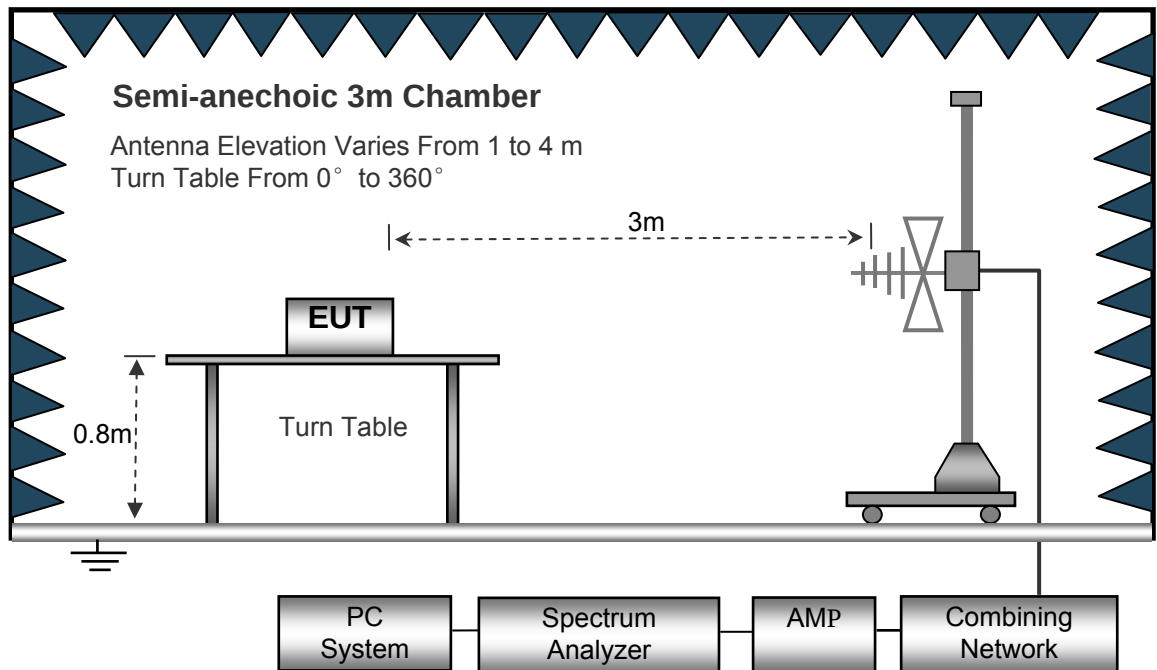
9.2 Test Setup

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

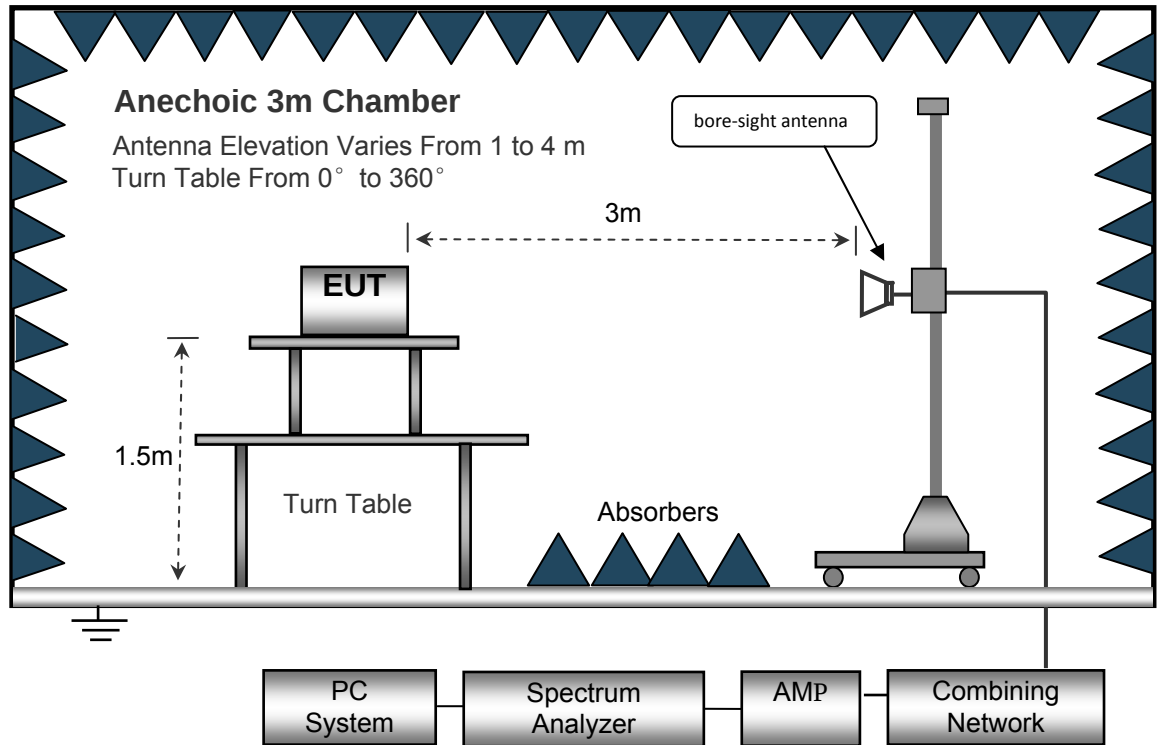
The test setup for emission measurement below 30MHz.



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

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							
6.032	25.01	QP	21.84	40.00	6.85	29.54	-22.69
8.051	24.56	QP	21.02	40.00	5.58	29.54	-23.96
26.215	24.35	QP	20.55	40.00	4.90	29.54	-24.64
802.11g							
6.032	24.53	QP	21.84	40.00	6.37	29.54	-23.17
8.051	24.71	QP	21.02	40.00	5.73	29.54	-23.81
26.215	25.06	QP	20.55	40.00	5.61	29.54	-23.93
802.11n(HT20)							
6.032	25.17	QP	21.84	40.00	7.01	29.54	-22.53
8.051	25.03	QP	21.02	40.00	6.05	29.54	-23.49
26.215	24.42	QP	20.55	40.00	4.97	29.54	-24.57
802.11n(HT40)							
6.032	25.11	QP	21.84	40.00	6.95	29.54	-22.59
8.051	25.23	QP	21.02	40.00	6.25	29.54	-23.29
26.215	24.57	QP	20.55	40.00	5.12	29.54	-24.42

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	39.71	QP	42	1.3	H	-11.62	28.09	46.00	-17.91
223.45	35.92	QP	248	1.9	V	-11.62	24.30	46.00	-21.70
4824.00	51.49	PK	39	1.0	V	-1.06	50.43	74.00	-23.57
4824.00	44.35	Ave	39	1.0	V	-1.06	43.29	54.00	-10.71
7236.00	40.10	PK	53	1.2	H	1.33	41.43	74.00	-32.57
7236.00	41.29	Ave	53	1.2	H	1.33	42.62	54.00	-11.38
2347.99	45.15	PK	18	1.8	V	-13.19	31.96	74.00	-42.04
2347.99	39.72	Ave	18	1.8	V	-13.19	26.53	54.00	-27.47
2357.99	43.96	PK	149	1.3	H	-13.14	30.82	74.00	-43.18
2357.99	38.76	Ave	149	1.3	H	-13.14	25.62	54.00	-28.38
2483.52	43.10	PK	251	1.2	V	-13.08	30.02	74.00	-43.98
2483.52	36.24	Ave	251	1.2	V	-13.08	23.16	54.00	-30.84

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11b: Middle Channel 2437MHz									
223.45	38.51	QP	134	1.6	H	-11.62	26.89	46.00	-19.11
223.45	36.52	QP	323	1.2	V	-11.62	24.90	46.00	-21.10
4874.00	51.95	PK	42	1.4	V	-0.62	51.33	74.00	-22.67
4874.00	44.11	Ave	42	1.4	V	-0.62	43.49	54.00	-10.51
7311.00	38.76	PK	26	1.3	H	2.21	40.97	74.00	-33.03
7311.00	41.63	Ave	26	1.3	H	2.21	43.84	54.00	-10.16
2327.90	45.20	PK	315	1.6	V	-13.19	32.01	74.00	-41.99
2327.90	39.39	Ave	315	1.6	V	-13.19	26.20	54.00	-27.80
2388.90	43.14	PK	174	1.4	H	-13.14	30.00	74.00	-44.00
2388.90	36.31	Ave	174	1.4	H	-13.14	23.17	54.00	-30.83
2486.08	43.30	PK	49	1.5	V	-13.08	30.22	74.00	-43.78
2486.08	37.16	Ave	49	1.5	V	-13.08	24.08	54.00	-29.92

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	37.08	QP	301	1.2	H	-11.62	25.46	46.00	-20.54
223.45	35.88	QP	95	2.0	V	-11.62	24.26	46.00	-21.74
4924.00	52.68	PK	299	1.7	V	-0.24	52.44	74.00	-21.56
4924.00	43.83	Ave	299	1.7	V	-0.24	43.59	54.00	-10.41
7386.00	39.17	PK	132	1.4	H	2.84	42.01	74.00	-31.99
7386.00	40.24	Ave	132	1.4	H	2.84	43.08	54.00	-10.92
2315.63	45.88	PK	242	1.0	V	-13.19	32.69	74.00	-41.31
2315.63	37.47	Ave	242	1.0	V	-13.19	24.28	54.00	-29.72
2350.79	42.22	PK	313	1.6	H	-13.14	29.08	74.00	-44.92
2350.79	38.63	Ave	313	1.6	H	-13.14	25.49	54.00	-28.51
2487.14	43.57	PK	155	1.8	V	-13.08	30.49	74.00	-43.51
2487.14	36.07	Ave	155	1.8	V	-13.08	22.99	54.00	-31.01

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	36.09	QP	158	1.2	H	-11.62	24.47	46.00	-21.53
223.45	35.66	QP	327	1.3	V	-11.62	24.04	46.00	-21.96
4824.00	54.17	PK	71	1.9	V	-1.06	53.11	74.00	-20.89
4824.00	43.51	Ave	71	1.9	V	-1.06	42.45	54.00	-11.55
7236.00	39.87	PK	342	1.2	H	1.33	41.20	74.00	-32.80
7236.00	39.23	Ave	342	1.2	H	1.33	40.56	54.00	-13.44
2338.76	45.66	PK	277	1.2	V	-13.19	32.47	74.00	-41.53
2338.76	39.48	Ave	277	1.2	V	-13.19	26.29	54.00	-27.71
2382.09	42.59	PK	199	1.2	H	-13.14	29.45	74.00	-44.55
2382.09	36.53	Ave	199	1.2	H	-13.14	23.39	54.00	-30.61
2486.10	44.57	PK	100	1.2	V	-13.08	31.49	74.00	-42.51
2486.10	36.36	Ave	100	1.2	V	-13.08	23.28	54.00	-30.72

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	37.33	QP	12	1.1	H	-11.62	25.71	46.00	-20.29
223.45	36.10	QP	220	1.1	V	-11.62	24.48	46.00	-21.52
4874.00	54.18	PK	222	1.5	V	-0.62	53.56	74.00	-20.44
4874.00	44.59	Ave	222	1.5	V	-0.62	43.97	54.00	-10.03
7311.00	41.29	PK	286	1.8	H	2.21	43.50	74.00	-30.50
7311.00	39.83	Ave	286	1.8	H	2.21	42.04	54.00	-11.96
2345.88	45.44	PK	10	1.9	V	-13.19	32.25	74.00	-41.75
2345.88	37.14	Ave	10	1.9	V	-13.19	23.95	54.00	-30.05
2366.78	42.93	PK	88	1.0	H	-13.14	29.79	74.00	-44.21
2366.78	37.23	Ave	88	1.0	H	-13.14	24.09	54.00	-29.91
2484.69	43.02	PK	185	1.8	V	-13.08	29.94	74.00	-44.06
2484.69	37.56	Ave	185	1.8	V	-13.08	24.48	54.00	-29.52

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)
11g: High Channel 2462MHz									
223.45	37.12	QP	211	1.9	H	-11.62	25.50	46.00	-20.50
223.45	34.82	QP	29	1.8	V	-11.62	23.20	46.00	-22.80
4924.00	54.20	PK	158	1.2	V	-0.24	53.96	74.00	-20.04
4924.00	44.51	Ave	158	1.2	V	-0.24	44.27	54.00	-9.73
7386.00	41.21	PK	47	1.6	H	2.84	44.05	74.00	-29.95
7386.00	39.60	Ave	47	1.6	H	2.84	42.44	54.00	-11.56
2338.13	47.00	PK	172	1.9	V	-13.19	33.81	74.00	-40.19
2338.13	39.80	Ave	172	1.9	V	-13.19	26.61	54.00	-27.39
2350.34	43.41	PK	114	1.9	H	-13.14	30.27	74.00	-43.73
2350.34	36.59	Ave	114	1.9	H	-13.14	23.45	54.00	-30.55
2497.92	44.35	PK	2	1.6	V	-13.08	31.27	74.00	-42.73
2497.92	38.40	Ave	2	1.6	V	-13.08	25.32	54.00	-28.68

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	35.84	QP	192	1.5	H	-11.62	24.22	46.00	-21.78
223.45	34.23	QP	187	1.1	V	-11.62	22.61	46.00	-23.39
4824.00	55.23	PK	62	1.0	V	-1.06	54.17	74.00	-19.83
4824.00	44.40	Ave	62	1.0	V	-1.06	43.34	54.00	-10.66
7236.00	41.22	PK	111	1.1	H	1.33	42.55	74.00	-31.45
7236.00	38.83	Ave	111	1.1	H	1.33	40.16	54.00	-13.84
2320.84	46.10	PK	257	1.2	V	-13.19	32.91	74.00	-41.09
2320.84	38.26	Ave	257	1.2	V	-13.19	25.07	54.00	-28.93
2352.81	43.81	PK	311	1.6	H	-13.14	30.67	74.00	-43.33
2352.81	36.16	Ave	311	1.6	H	-13.14	23.02	54.00	-30.98
2485.87	43.38	PK	123	2.0	V	-13.08	30.30	74.00	-43.70
2485.87	36.84	Ave	123	2.0	V	-13.08	23.76	54.00	-30.24

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)
11n20: Middle Channel 2437MHz									
223.45	35.03	QP	270	1.2	H	-11.62	23.41	46.00	-22.59
223.45	35.62	QP	283	1.7	V	-11.62	24.00	46.00	-22.00
4874.00	55.11	PK	190	1.5	V	-0.62	54.49	74.00	-19.51
4874.00	45.22	Ave	190	1.5	V	-0.62	44.60	54.00	-9.40
7311.00	40.68	PK	18	1.8	H	2.21	42.89	74.00	-31.11
7311.00	39.73	Ave	18	1.8	H	2.21	41.94	54.00	-12.06
2348.80	45.09	PK	145	1.9	V	-13.19	31.90	74.00	-42.10
2348.80	37.43	Ave	145	1.9	V	-13.19	24.24	54.00	-29.76
2362.39	42.83	PK	19	1.3	H	-13.14	29.69	74.00	-44.31
2362.39	38.24	Ave	19	1.3	H	-13.14	25.10	54.00	-28.90
2495.39	44.27	PK	316	1.5	V	-13.08	31.19	74.00	-42.81
2495.39	36.96	Ave	316	1.5	V	-13.08	23.88	54.00	-30.12

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	33.54	QP	185	1.5	H	-11.62	21.92	46.00	-24.08
223.45	35.90	QP	31	2.0	V	-11.62	24.28	46.00	-21.72
4924.00	55.00	PK	181	1.8	V	-0.24	54.76	74.00	-19.24
4924.00	45.74	Ave	181	1.8	V	-0.24	45.50	54.00	-8.50
7386.00	41.38	PK	169	1.6	H	2.84	44.22	74.00	-29.78
7386.00	40.78	Ave	169	1.6	H	2.84	43.62	54.00	-10.38
2344.57	46.69	PK	211	1.1	V	-13.19	33.50	74.00	-40.50
2344.57	37.69	Ave	211	1.1	V	-13.19	24.50	54.00	-29.50
2353.50	45.00	PK	259	1.6	H	-13.14	31.86	74.00	-42.14
2353.50	38.95	Ave	259	1.6	H	-13.14	25.81	54.00	-28.19
2492.51	42.05	PK	321	1.0	V	-13.08	28.97	74.00	-45.03
2492.51	38.52	Ave	321	1.0	V	-13.08	25.44	54.00	-28.56

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: Low Channel 2422MHz									
223.45	34.06	QP	259	1.6	H	-11.62	22.44	46.00	-23.56
223.45	34.94	QP	159	1.2	V	-11.62	23.32	46.00	-22.68
4844.00	53.17	PK	313	1.7	V	-1.06	52.11	74.00	-21.89
4844.00	43.70	Ave	313	1.7	V	-1.06	42.64	54.00	-11.36
7266.00	39.08	PK	217	1.9	H	1.33	40.41	74.00	-33.59
7266.00	39.72	Ave	217	1.9	H	1.33	41.05	54.00	-12.95
2341.77	46.68	PK	107	1.6	V	-13.19	33.49	74.00	-40.51
2341.77	38.96	Ave	107	1.6	V	-13.19	25.77	54.00	-28.23
2362.96	43.82	PK	64	1.0	H	-13.14	30.68	74.00	-43.32
2362.96	37.90	Ave	64	1.0	H	-13.14	24.76	54.00	-29.24
2490.49	44.17	PK	123	1.7	V	-13.08	31.09	74.00	-42.91
2490.49	37.06	Ave	123	1.7	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)
11n40: Middle Channel 2437MHz									
223.45	33.24	QP	185	1.9	H	-11.62	21.62	46.00	-24.38
223.45	35.07	QP	129	1.8	V	-11.62	23.45	46.00	-22.55
4874.00	52.64	PK	148	1.4	V	-0.62	52.02	74.00	-21.98
4874.00	43.16	Ave	148	1.4	V	-0.62	42.54	54.00	-11.46
7311.00	39.38	PK	221	1.5	H	2.21	41.59	74.00	-32.41
7311.00	39.03	Ave	221	1.5	H	2.21	41.24	54.00	-12.76
2314.30	45.58	PK	114	1.5	V	-13.19	32.39	74.00	-41.61
2314.30	39.59	Ave	114	1.5	V	-13.19	26.40	54.00	-27.60
2372.76	44.94	PK	355	1.4	H	-13.14	31.80	74.00	-42.20
2372.76	38.65	Ave	355	1.4	H	-13.14	25.51	54.00	-28.49
2493.08	44.34	PK	20	1.2	V	-13.08	31.26	74.00	-42.74
2493.08	37.39	Ave	20	1.2	V	-13.08	24.31	54.00	-29.69

Frequency	Receiver Reading	Detector	Turn table Angle	RX Antenna		Corrected Factor	Corrected Amplitude	FCC Part 15.247/209/205	
				Height	Polar			Limit	Margin
(MHz)	(dBμV)	(PK/QP/Ave)	Degree	(m)	(H/V)	(dB)	(dBμV/m)	(dBμV/m)	(dB)
11n40: High Channel 2452MHz									
223.45	32.53	QP	1	1.5	H	-11.62	20.91	46.00	-25.09
223.45	35.03	QP	310	1.2	V	-11.62	23.41	46.00	-22.59
4904.00	53.56	PK	54	1.5	V	-0.24	53.32	74.00	-20.68
4904.00	43.83	Ave	54	1.5	V	-0.24	43.59	54.00	-10.41
7356.00	39.75	PK	332	1.7	H	2.84	42.59	74.00	-31.41
7356.00	38.80	Ave	332	1.7	H	2.84	41.64	54.00	-12.36
2334.91	45.88	PK	137	1.5	V	-13.19	32.69	74.00	-41.31
2334.91	38.44	Ave	137	1.5	V	-13.19	25.25	54.00	-28.75
2377.69	42.55	PK	1	1.5	H	-13.14	29.41	74.00	-44.59
2377.69	37.98	Ave	1	1.5	H	-13.14	24.84	54.00	-29.16
2492.07	43.88	PK	34	1.4	V	-13.08	30.80	74.00	-43.20
2492.07	37.05	Ave	34	1.4	V	-13.08	23.97	54.00	-30.03

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 v04 April 5, 2017
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

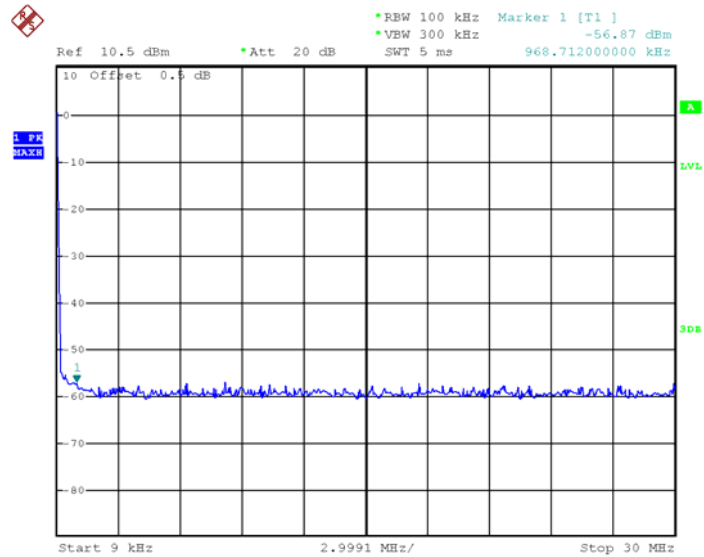
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum;
2. Set the spectrum analyzer:
Blow 30MHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold
Above 1GHz:
RBW = 100kHz, VBW = 300kHz, Sweep = auto
Detector function = peak, Trace = max hold

10.2 Test Result

9KHz – 30MHz

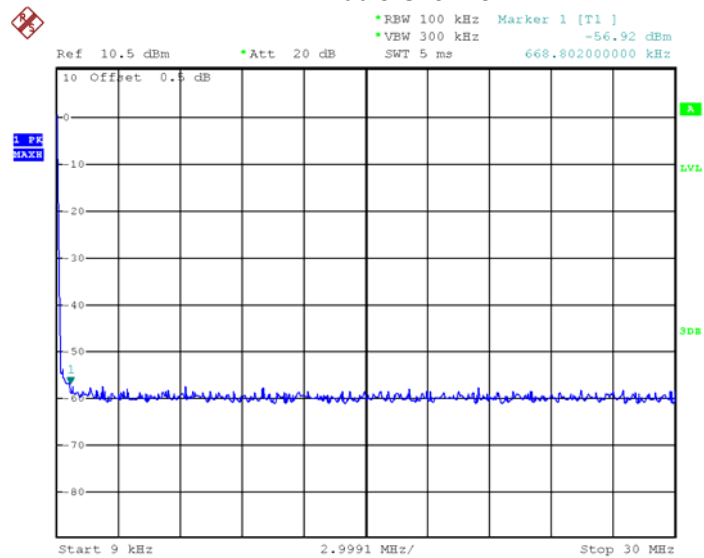
802.11b

Low Channel

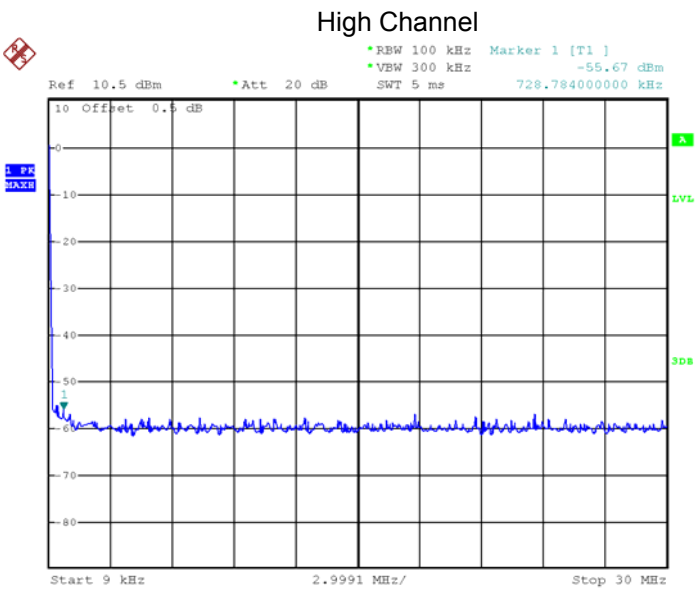


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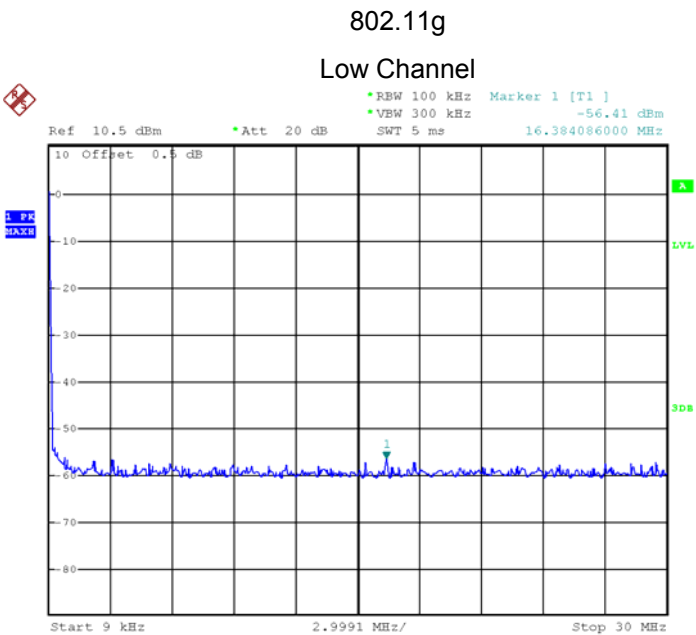
Middle Channel



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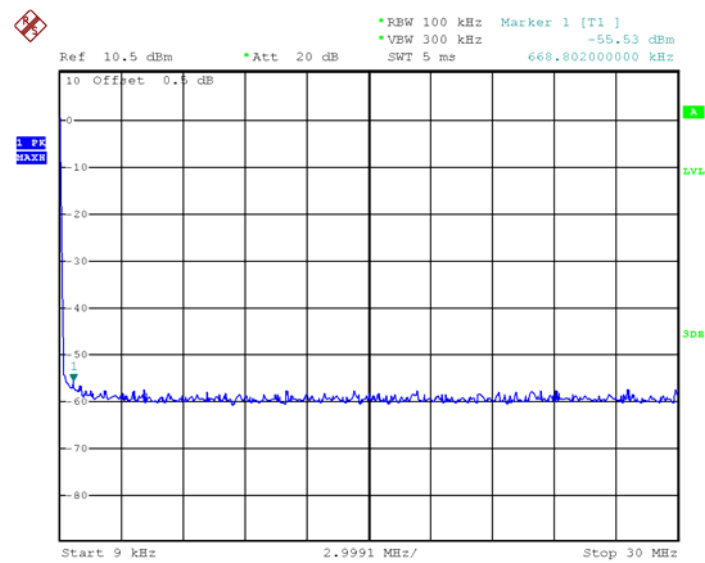


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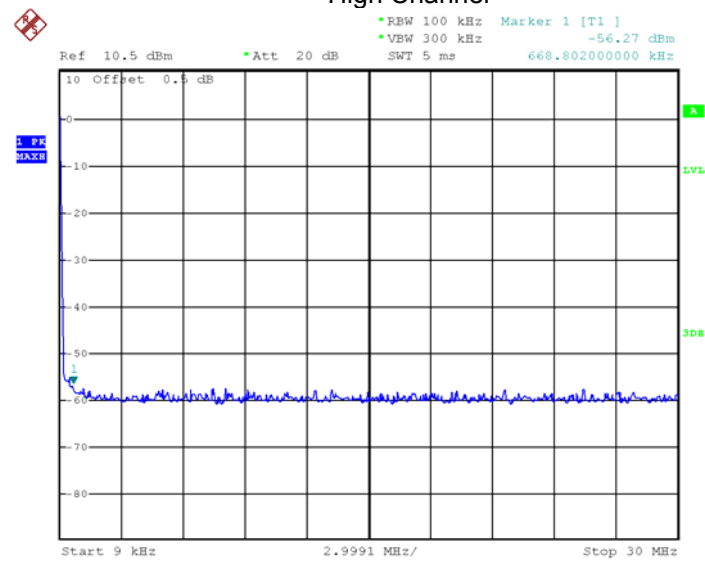
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Middle Channel



Date: 25.JUL.2018 07:36:10

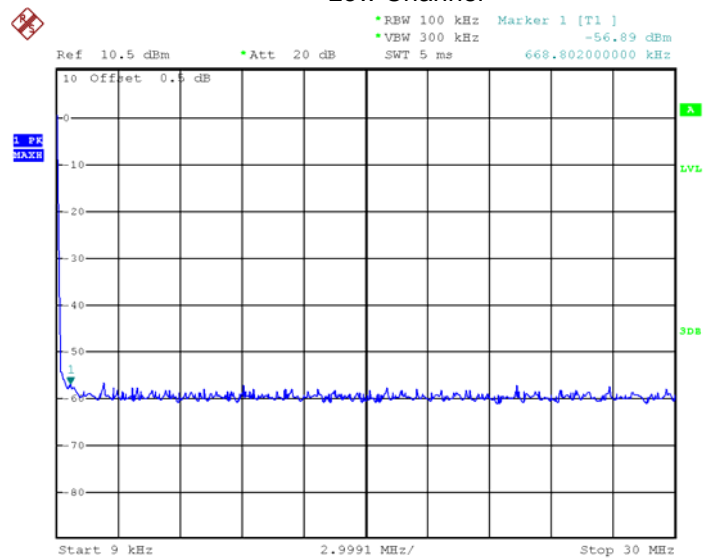
High Channel



Date: 25.JUL.2018 07:35:40

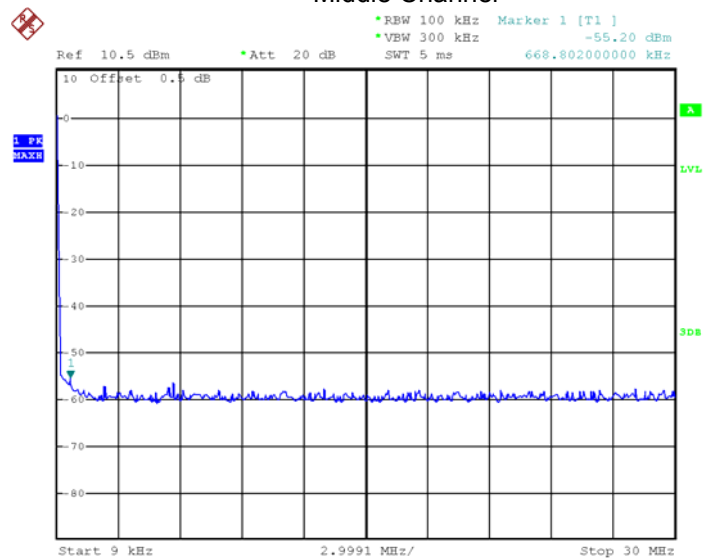
802.11n HT20

Low Channel

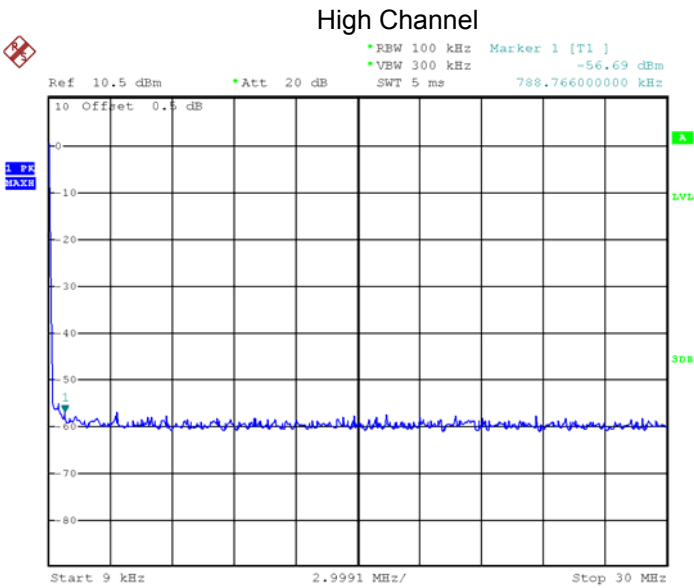


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Middle Channel

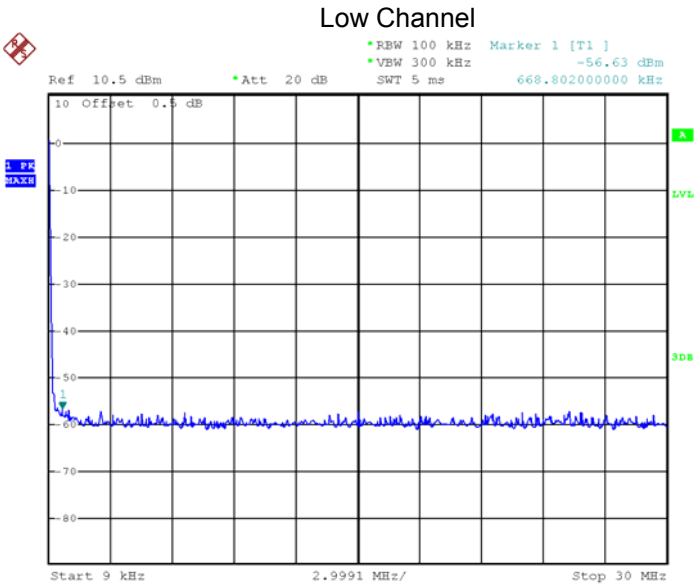


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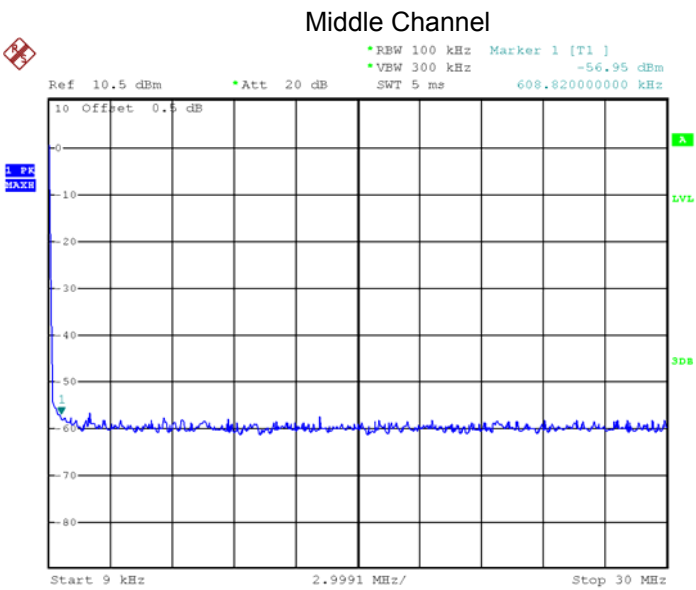


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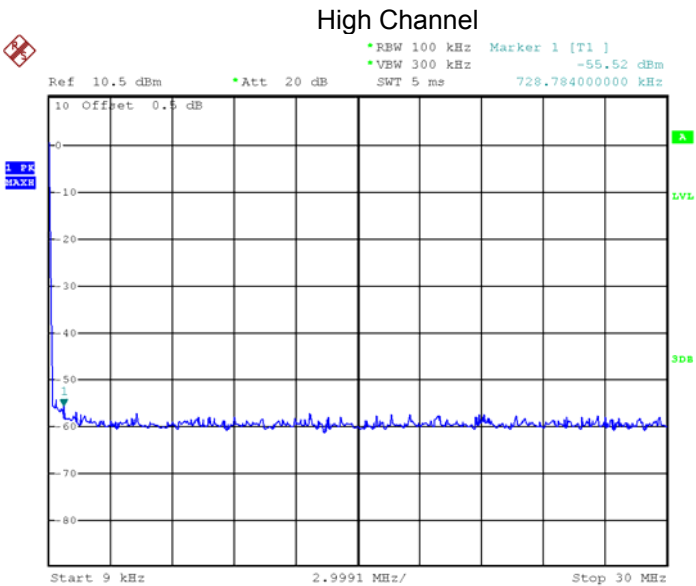
802.11n HT40



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Date: 25.JUL.2018 07:38:21



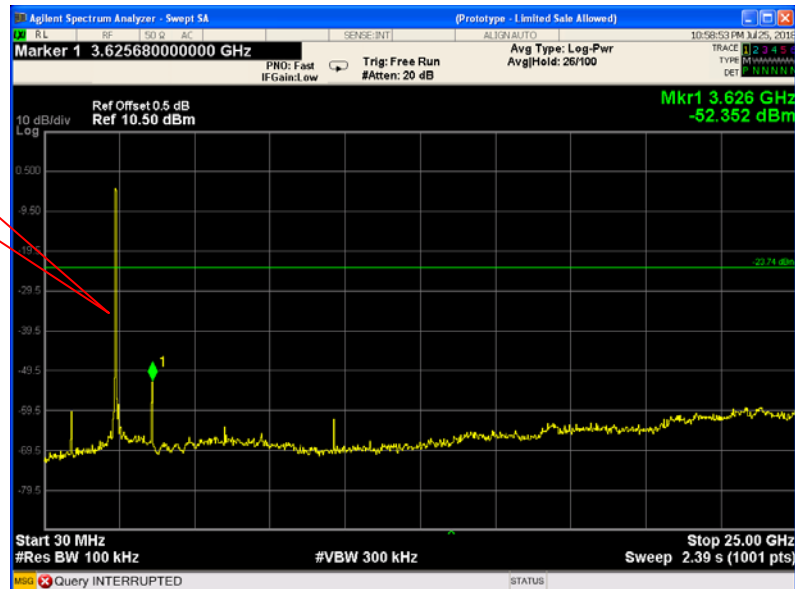
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Above 30MHz

802.11b

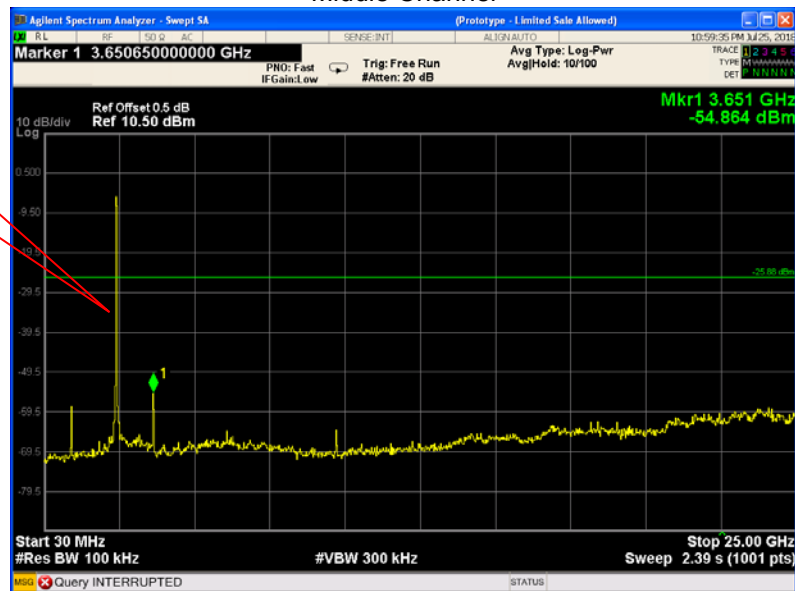
Low Channel

Fundamental



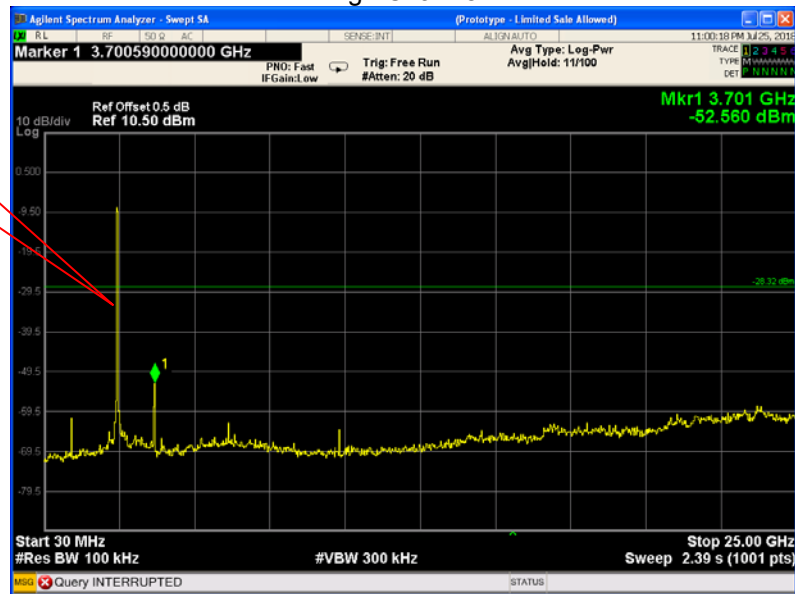
Middle Channel

Fundamental



High Channel

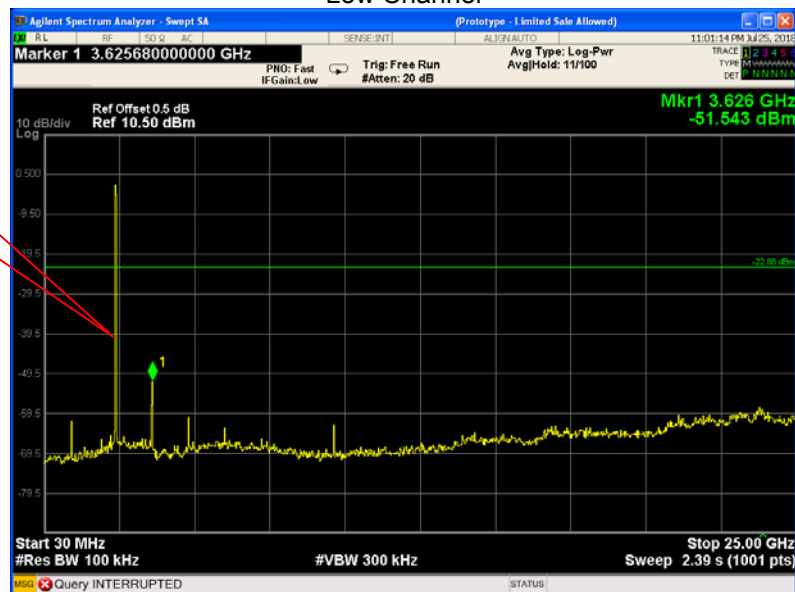
Fundamental



802.11g

Low Channel

Fundamental



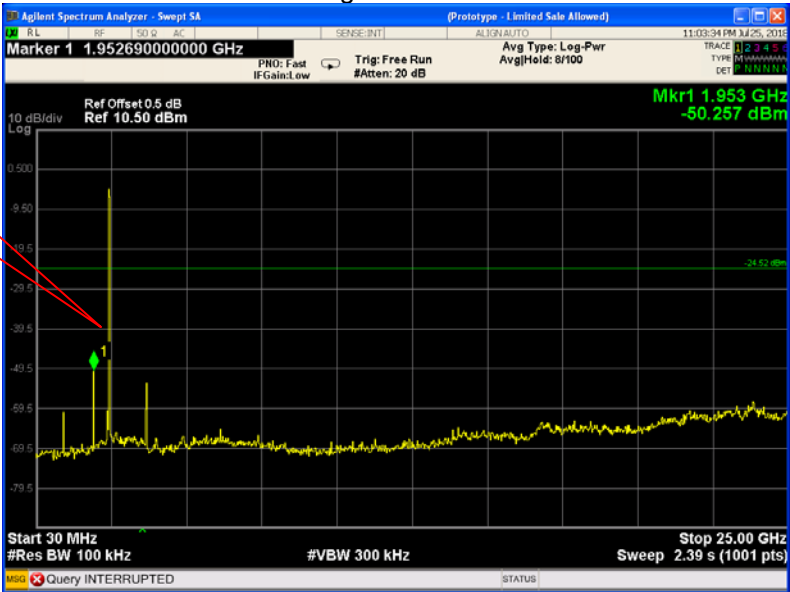
Middle Channel

Fundamental



High Channel

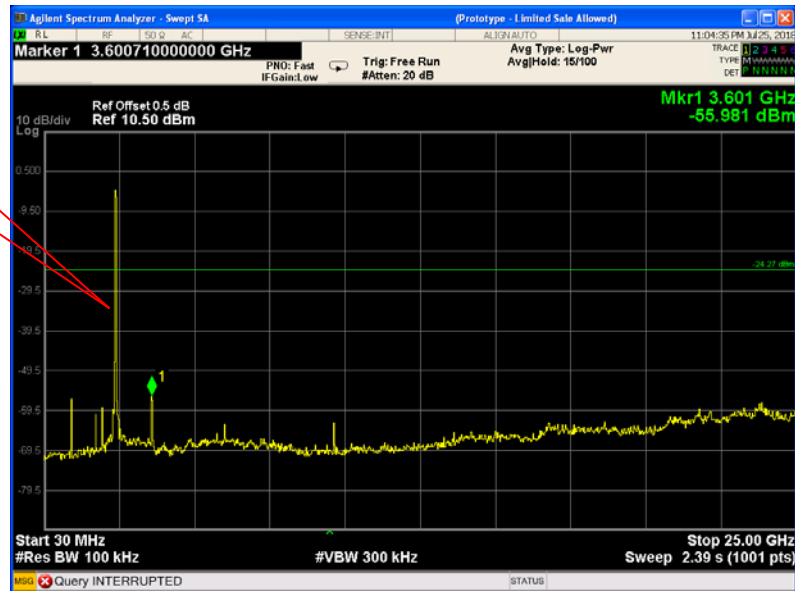
Fundamental



802.11n HT20

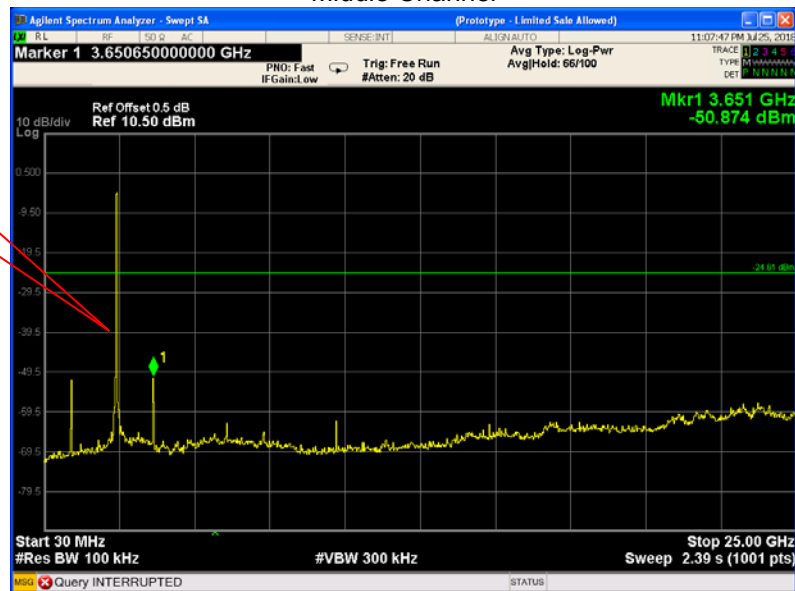
Low Channel

Fundamental



Middle Channel

Fundamental



High Channel

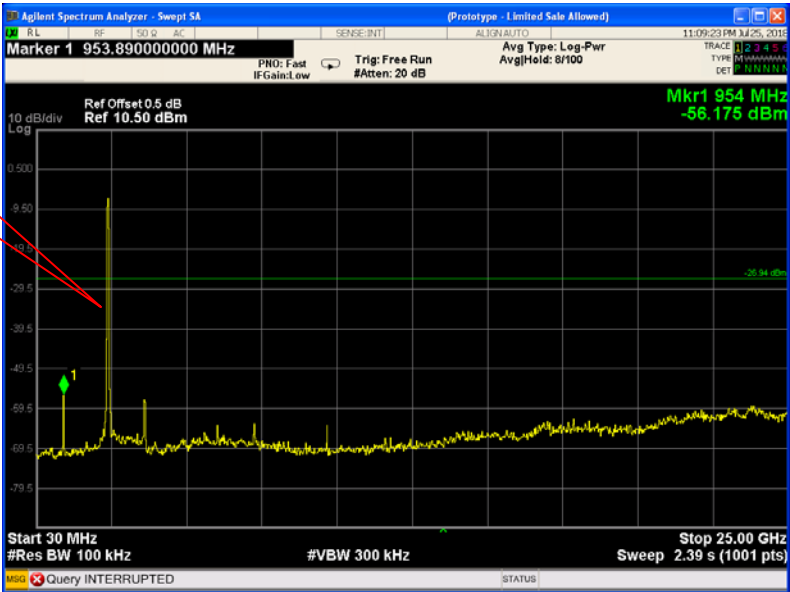
Fundamental



802.11n HT40

Low Channel

Fundamental



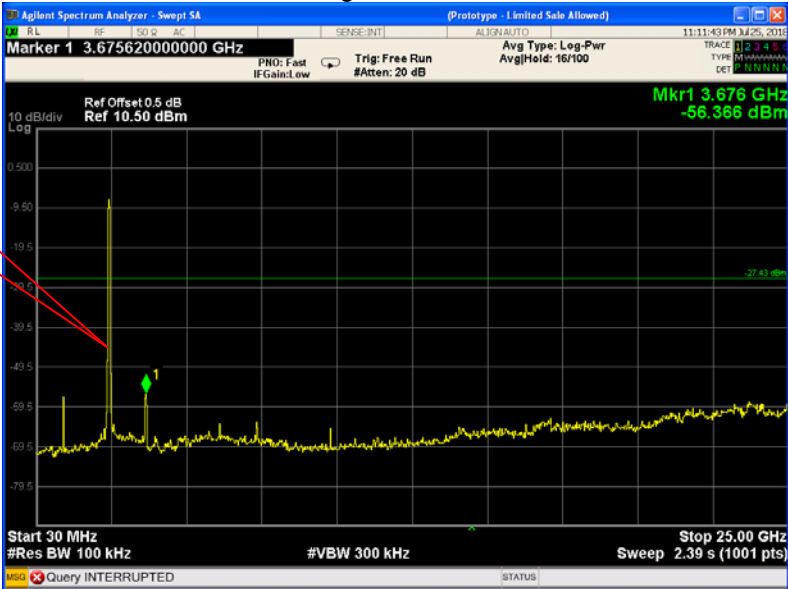
Middle Channel

Fundamental



High Channel

Fundamental



11 Band Edge Measurement

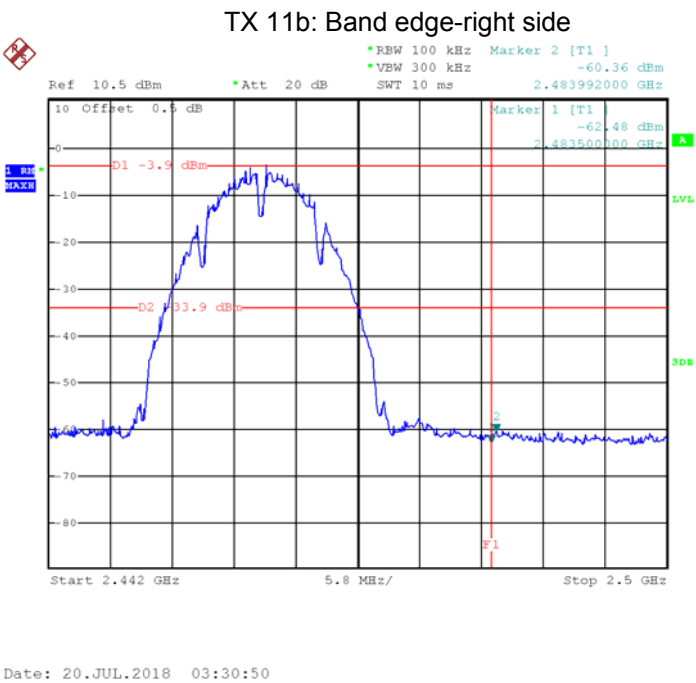
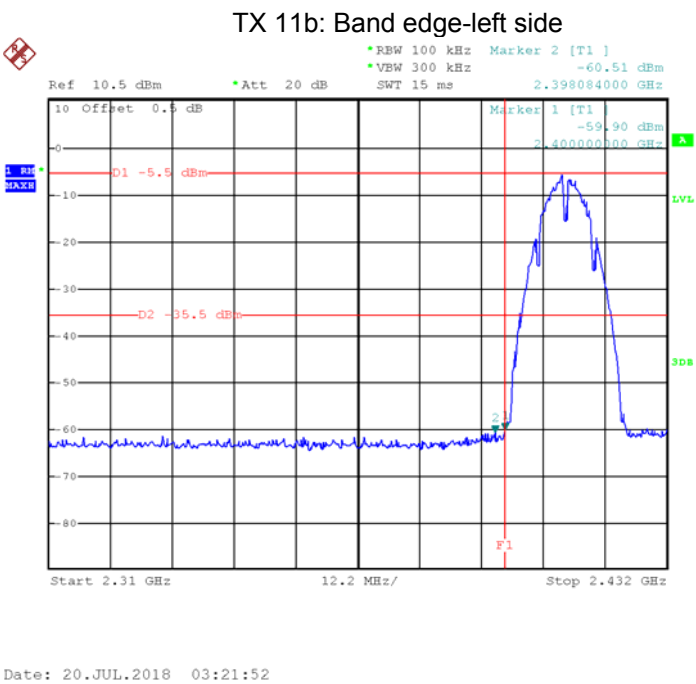
Test Requirement:	FCC CFR47 Part 15 Section 15.247
Test Method:	KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017
Test Limit:	Regulation 15.247 (d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency 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

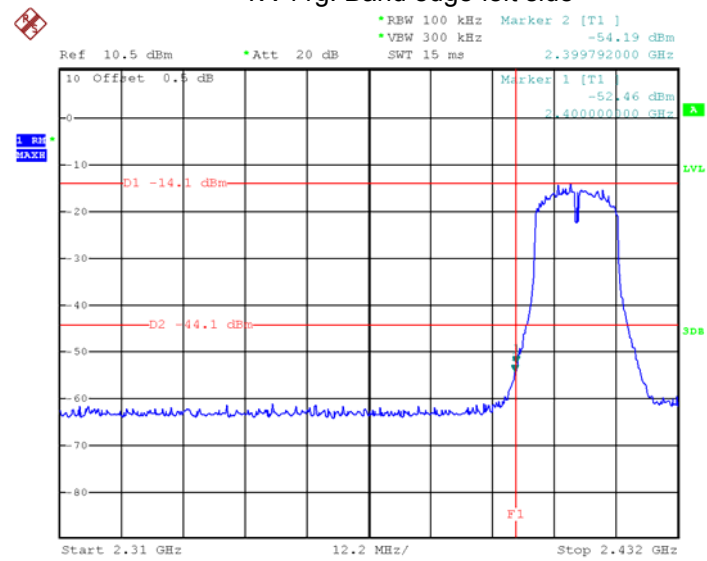
1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then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

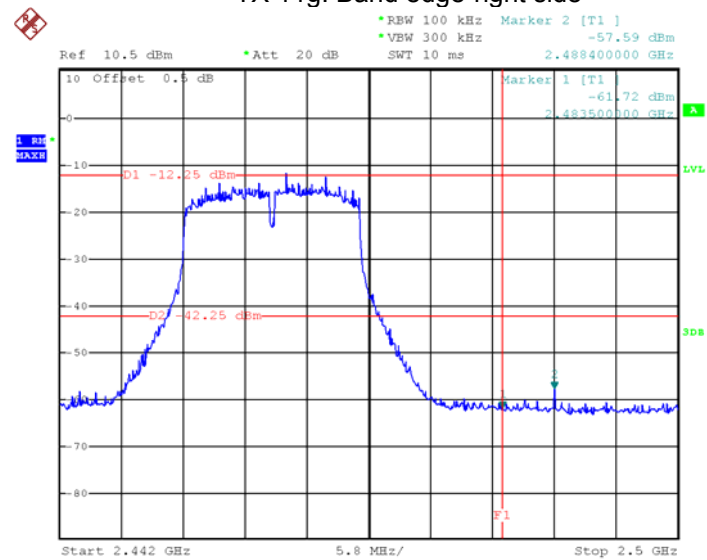


TX 11g: Band edge-left side



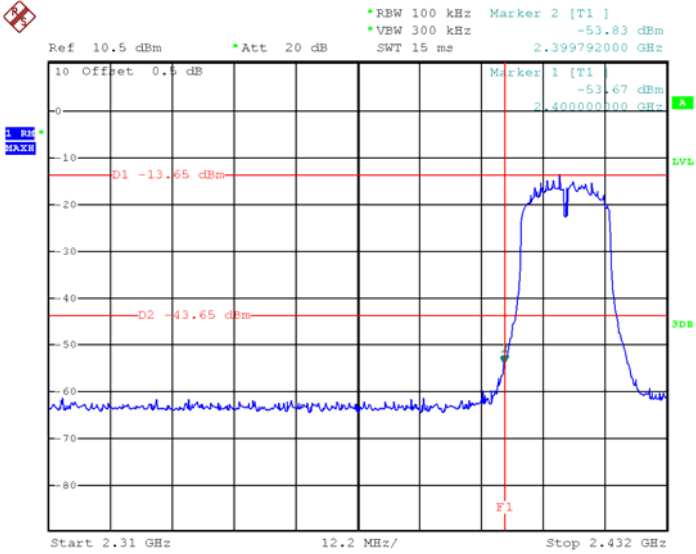
Date: 20.JUL.2018 03:47:35

TX 11g: Band edge-right side



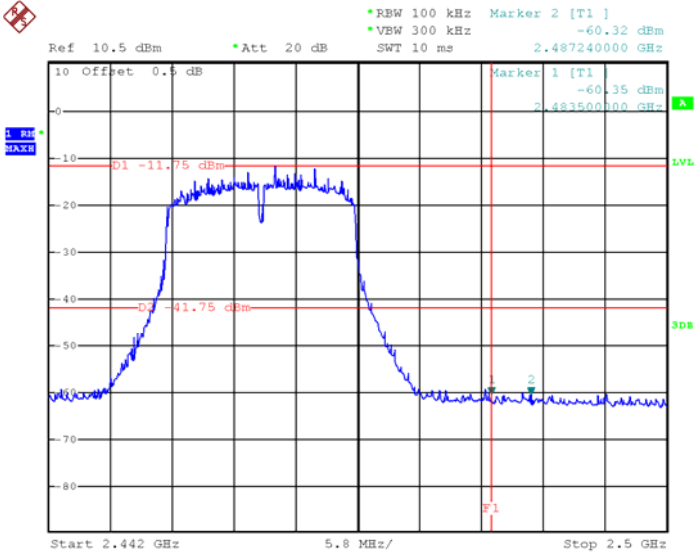
Date: 20.JUL.2018 03:56:43

TX 11n HT20: Band edge-left side



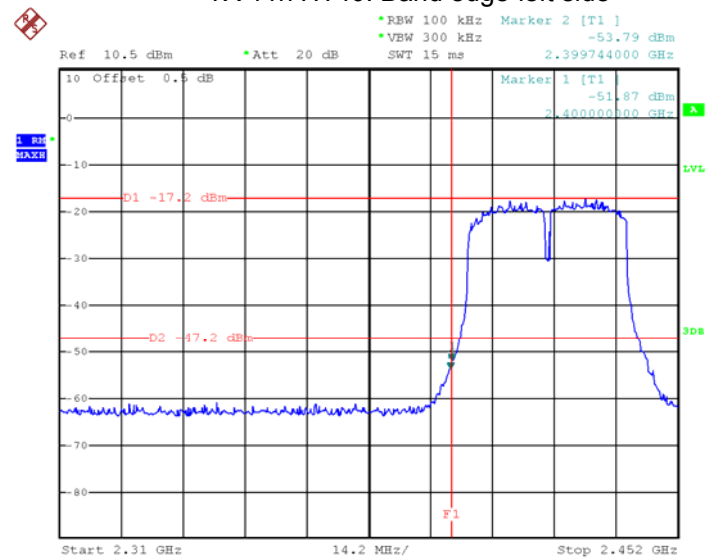
Date: 20.JUL.2018 04:04:30

TX 11n HT20: Band edge-right side



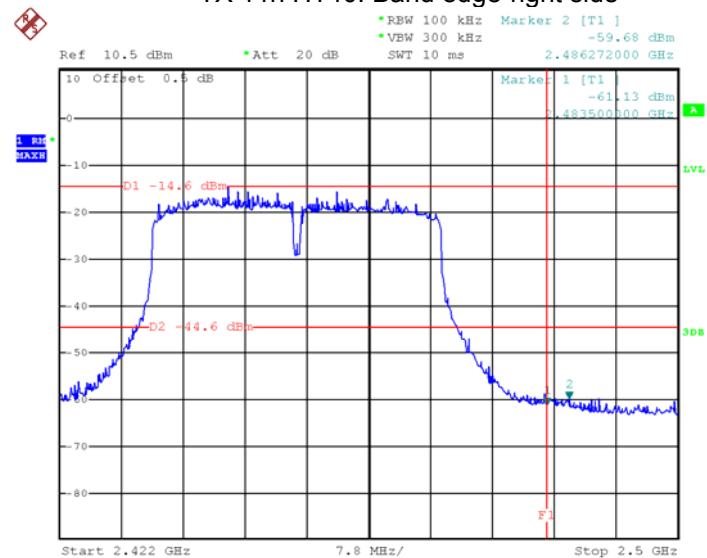
Date: 20.JUL.2018 04:16:10

TX 11n HT40: Band edge-left side



Date: 20.JUL.2018 04:27:08

TX 11n HT40: Band edge-right side



Date: 20.JUL.2018 04:36:22

12 6 dB Bandwidth Measurement

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

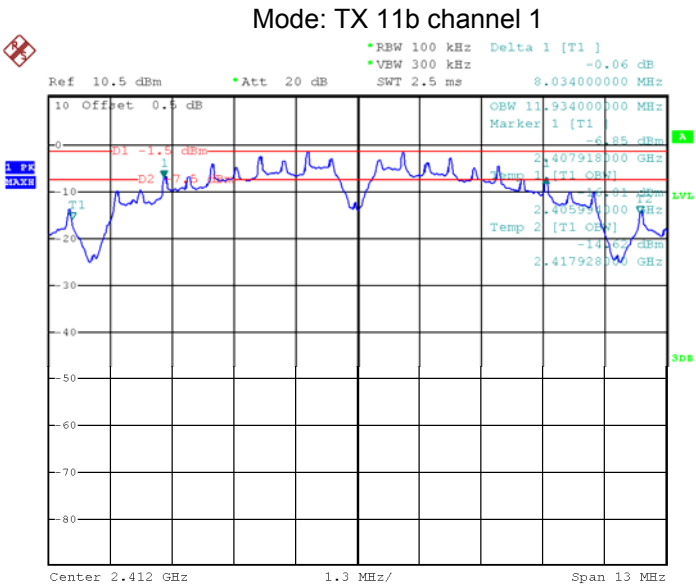
12.1 Test Procedure:

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

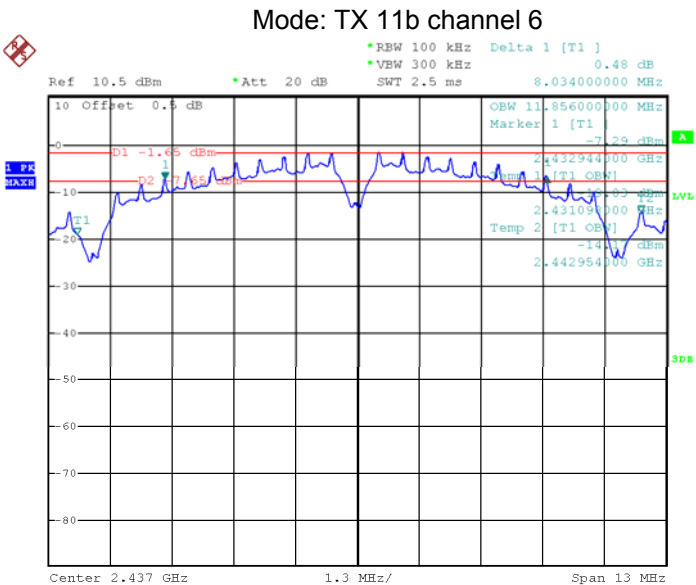
12.2 Test Result:

Operation mode	Test Channel	Bandwidth (MHz)
TX 11b	Channel 1	8.034
	Channel 6	8.034
	Channel 11	8.034
TX 11g	Channel 1	15.180
	Channel 6	15.180
	Channel 11	15.180
TX 11n HT20	Channel 1	15.180
	Channel 6	15.180
	Channel 11	15.226
TX 11n HT40	Channel 3	35.192
	Channel 6	35.086
	Channel 9	35.192

Test result plot:

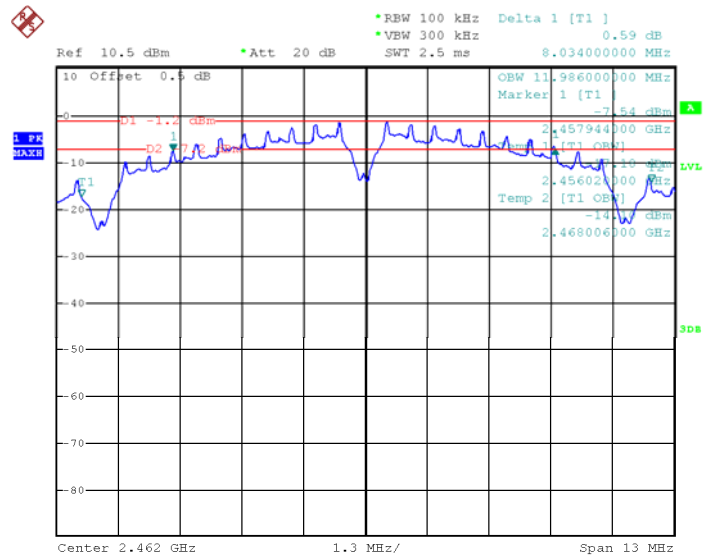


Date: 20.JUL.2018 03:16:19



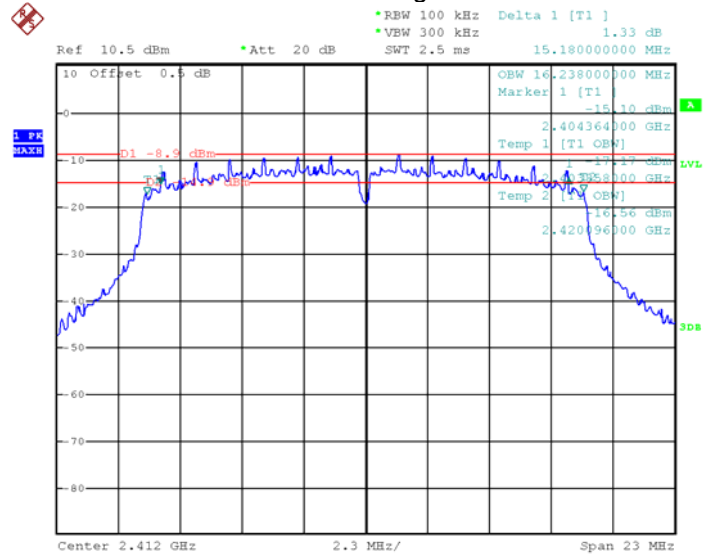
Date: 20.JUL.2018 03:25:29

Mode: TX 11b channel 11

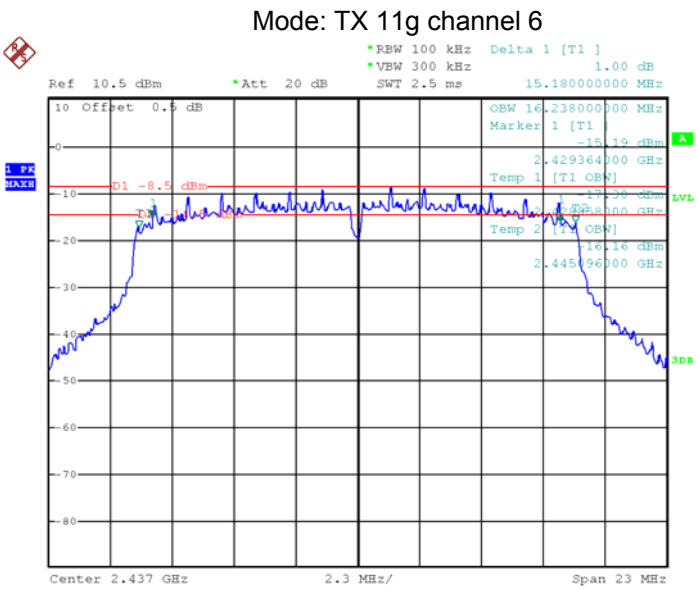


Date: 20.JUL.2018 03:29:12

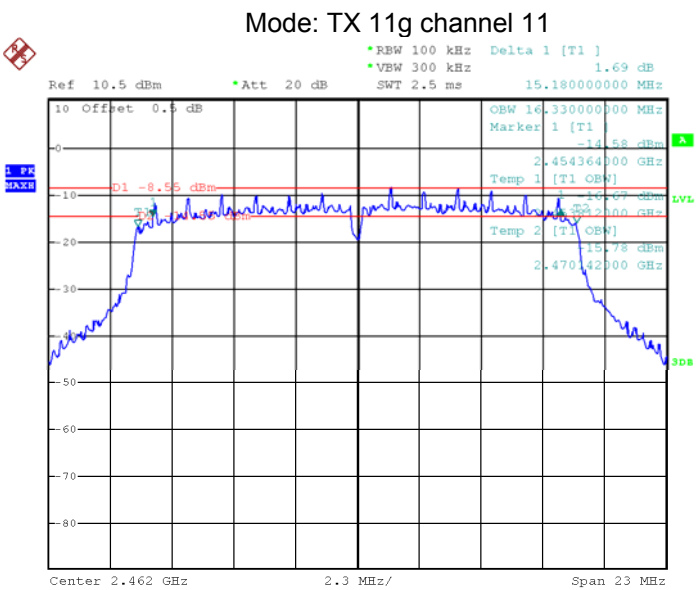
Mode: TX 11g channel 1



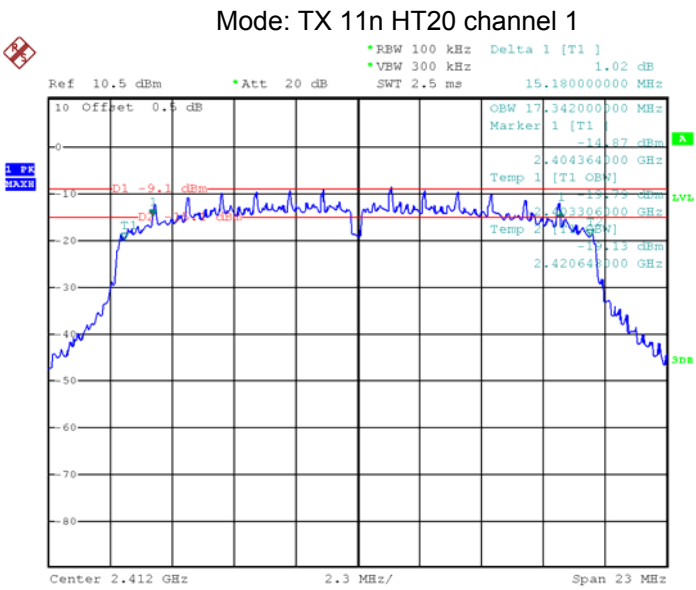
Date: 20.JUL.2018 03:44:36



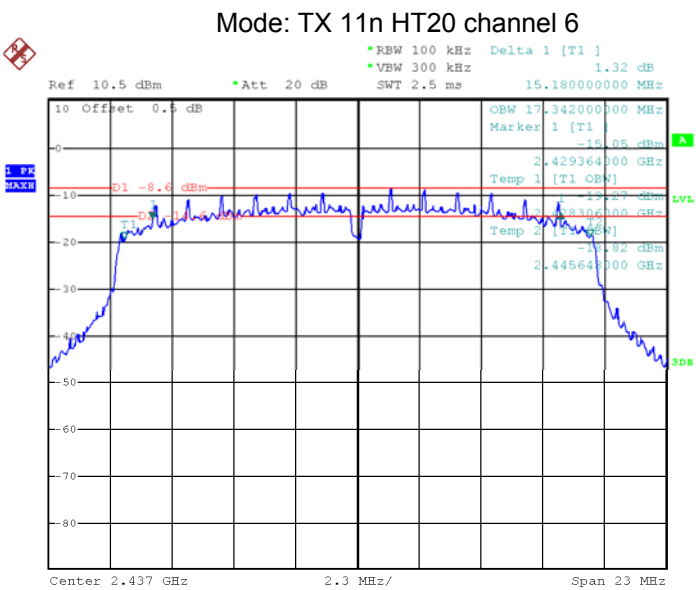
Date: 20.JUL.2018 03:52:40



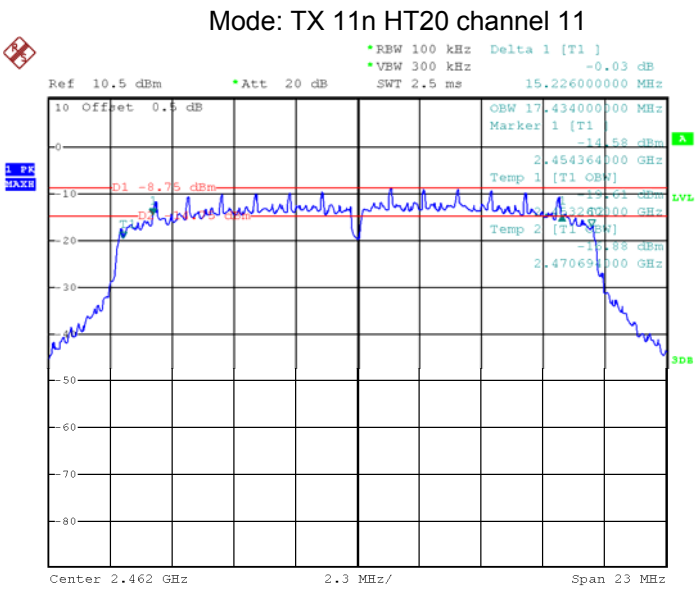
Date: 20.JUL.2018 04:43:46



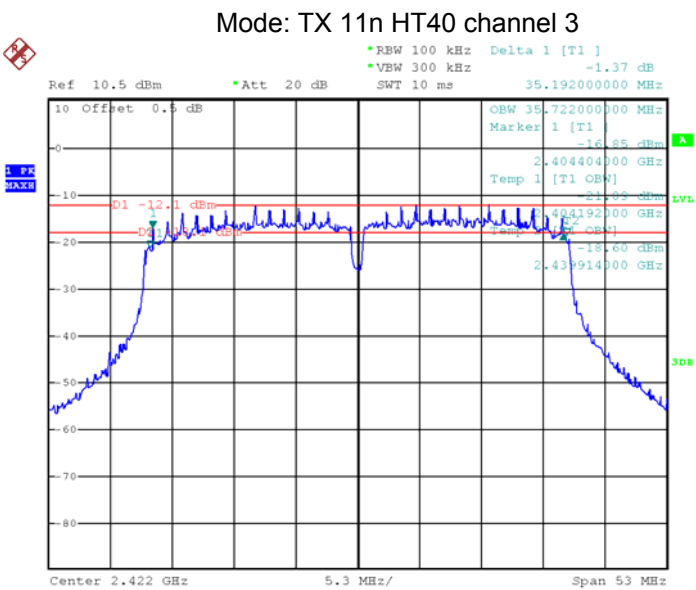
Date: 20.JUL.2018 04:03:22



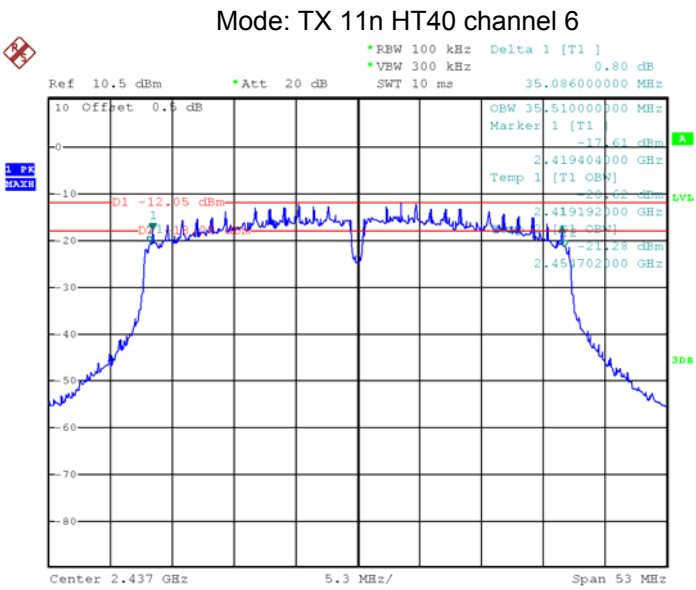
Date: 20.JUL.2018 04:07:15



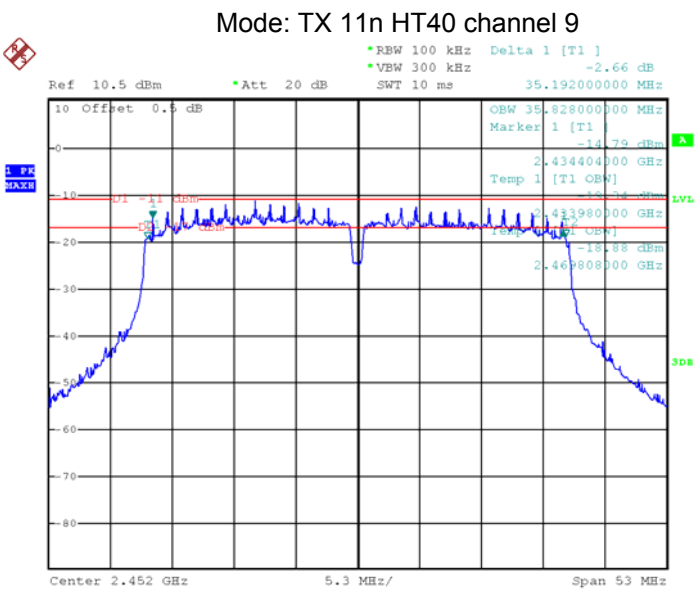
Date: 20.JUL.2018 04:14:26



Date: 20.JUL.2018 04:23:52



Date: 20.JUL.2018 04:29:46



Date: 20.JUL.2018 04:34:31

13 Maximum Peak Output Power

Test Requirement:

FCC CFR47 Part 15 Section 15.247

Test Method:

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

13.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

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.

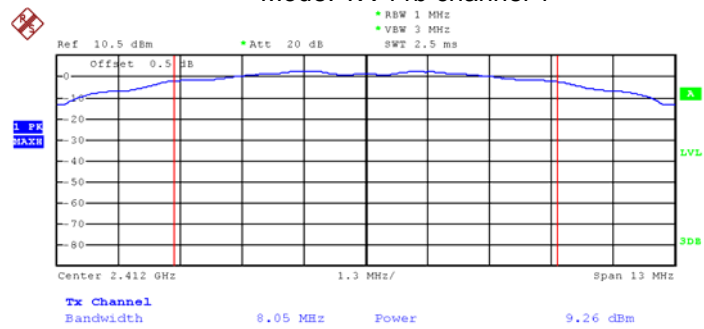
- a) Set the $RBW = 1 \text{ MHz}$.
- b) Set the $VBW \geq 3 \times RBW$
- c) Set the $span \geq 1.5 \times DTS$ bandwidth.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the instrument's band/channel power measurement function 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.

13.2 Test Result:

Operation mode	Channel Frequency (MHz)	Maximum Peak Output Power (dBm)	Limit
TX 11b	Low-2412	9.26	1W/30dBm
	Middle-2437	9.30	1W/30dBm
	High-2462	9.61	1W/30dBm
TX 11g	Low-2412	9.53	1W/30dBm
	Middle-2437	9.65	1W/30dBm
	High-2462	9.43	1W/30dBm
TX 11n HT20	Low-2412	9.44	1W/30dBm
	Middle-2437	9.48	1W/30dBm
	High-2462	9.34	1W/30dBm
TX 11n HT40	Low-2422	9.51	1W/30dBm
	Middle-2437	9.52	1W/30dBm
	High-2452	9.26	1W/30dBm

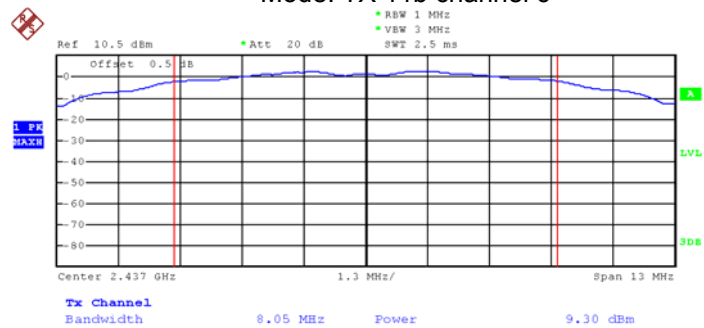
Test Plot

Mode: TX 11b channel 1

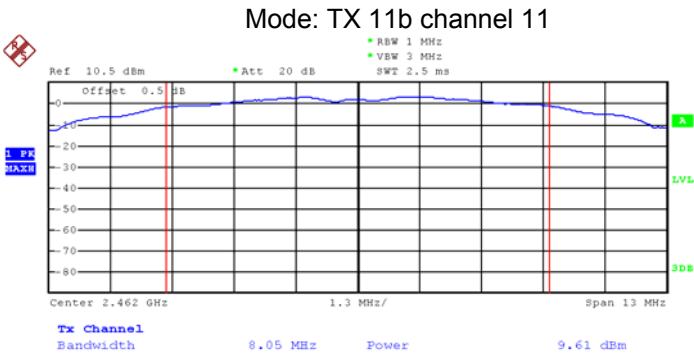


Date: 20.JUL.2018 03:13:24

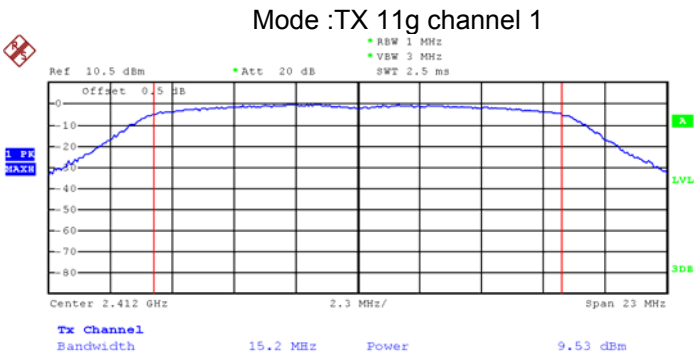
Mode: TX 11b channel 6



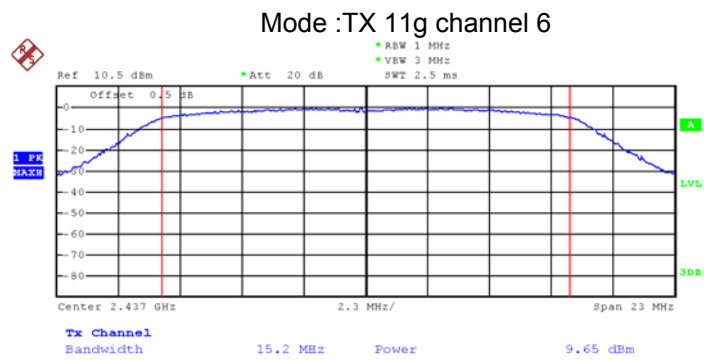
Date: 20.JUL.2018 03:23:37



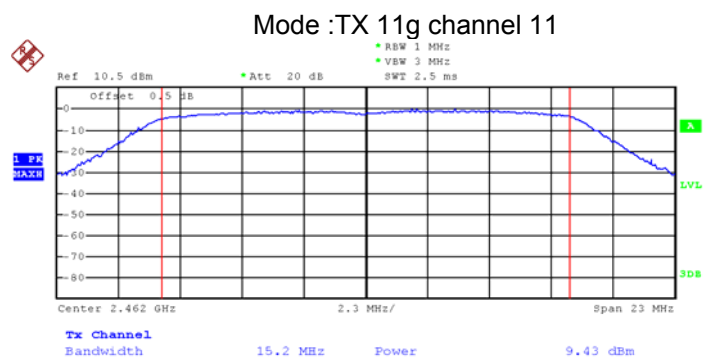
Date: 20.JUL.2018 03:27:31



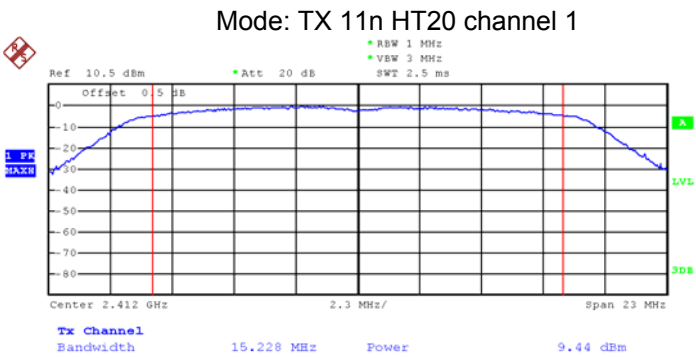
Date: 20.JUL.2018 03:45:18



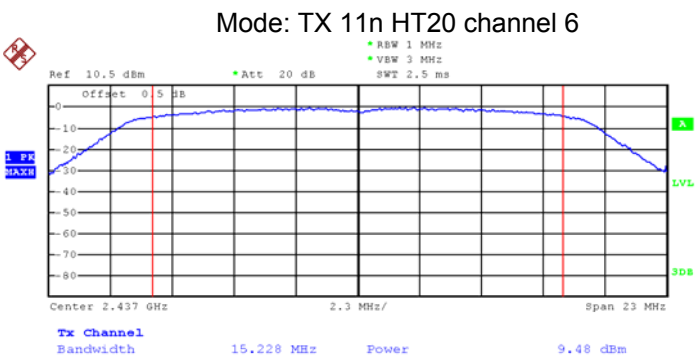
Date: 20.JUL.2018 03:50:46



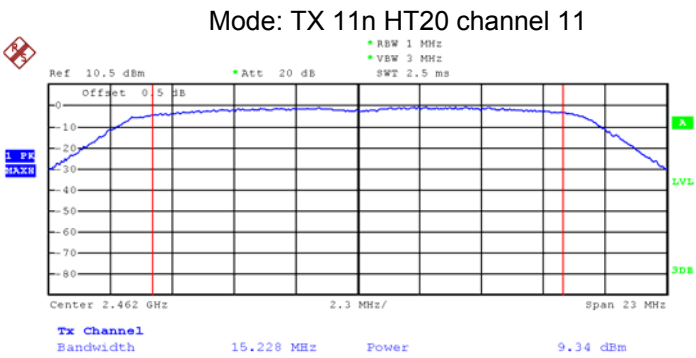
Date: 20.JUL.2018 03:53:58



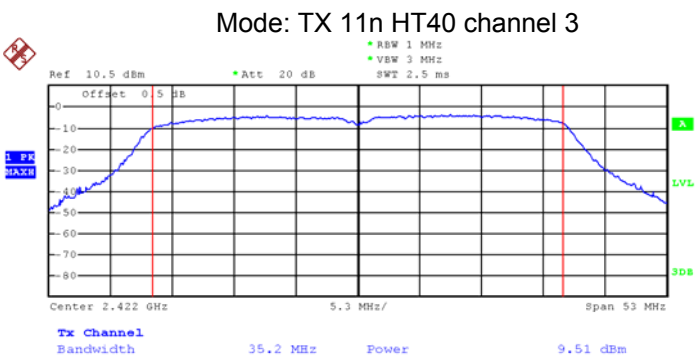
Date: 20.JUL.2018 04:01:08



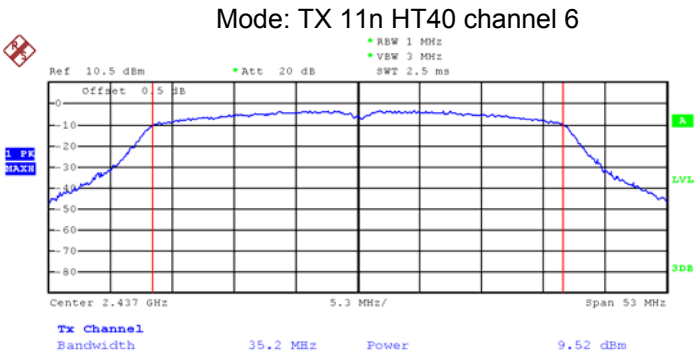
Date: 20.JUL.2018 04:06:05



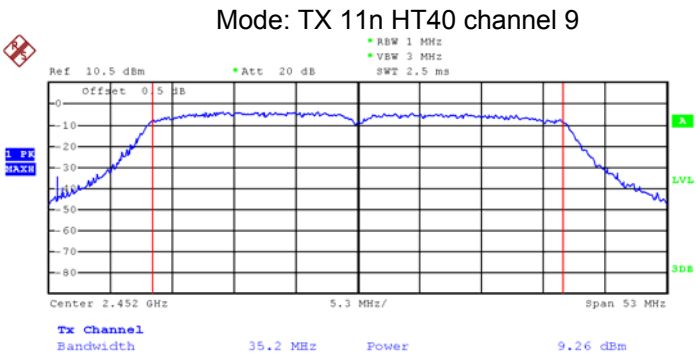
Date: 20.JUL.2018 04:09:13



Date: 20.JUL.2018 04:22:08



Date: 20.JUL.2018 04:28:19



Date: 20.JUL.2018 04:32:07

14 Power Spectral density

Test Requirement: FCC CFR47 Part 15 Section 15.247

Test Method: KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017

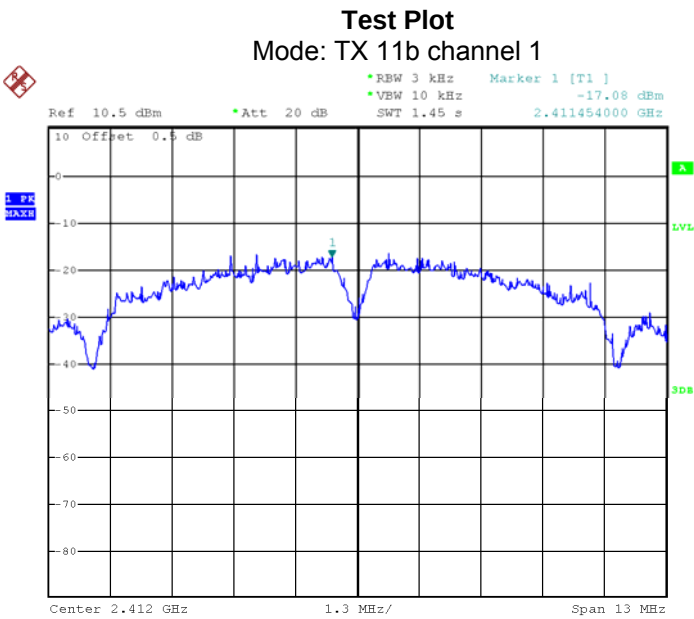
14.1 Test Procedure:

KDB 558074 D01 DTS Meas Guidance v04 April 5, 2017 section 10.2

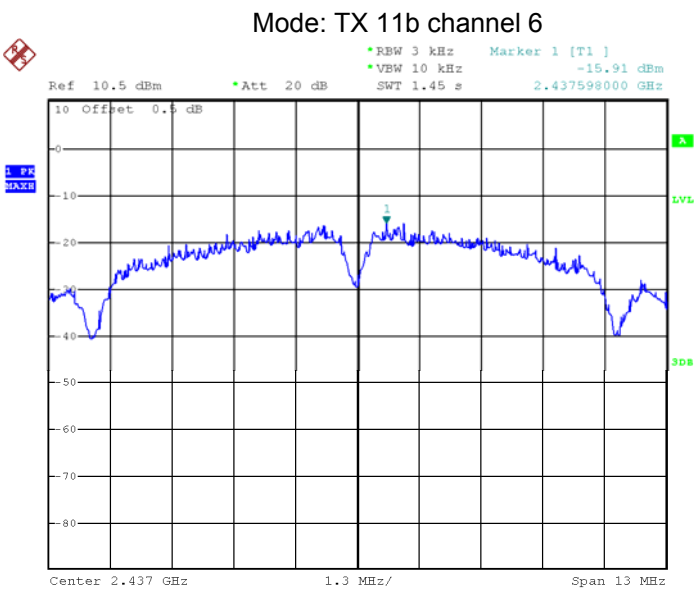
1. Remove the antenna from the EUT and then connect a low RF cable from the antenna port to the spectrum.
2. Set the spectrum analyzer: RBW = 3kHz. VBW = 10kHz , Span = 1.5 times the DTS channel bandwidth(6 dB bandwidth). Sweep = auto; Detector Function = Peak. Trace = Max hold.
3. Allow the trace to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

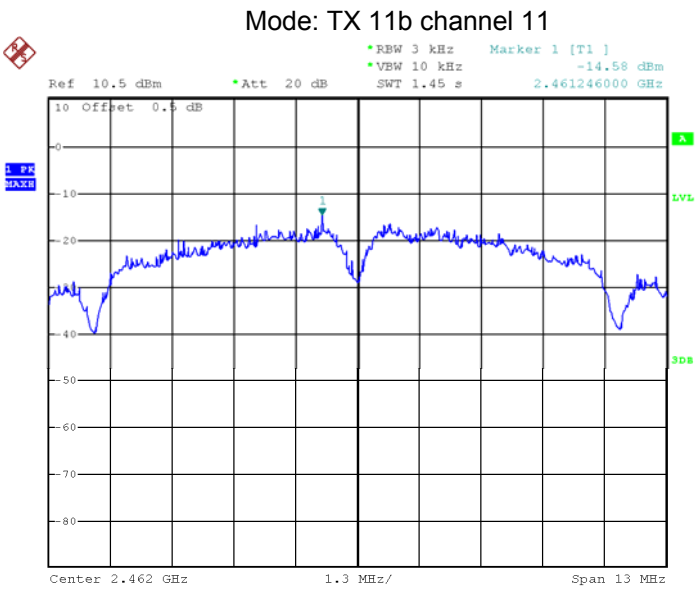
Operation mode	Channel Frequency (MHz)	Power Spectral (dBm per 3kHz)	Limit
TX 11b	Low-2412	-17.08	8dBm per 3kHz
	Middle-2437	-15.91	8dBm per 3kHz
	High-2462	-14.58	8dBm per 3kHz
TX 11g	Low-2412	-23.62	8dBm per 3kHz
	Middle-2437	-23.42	8dBm per 3kHz
	High-2462	-24.18	8dBm per 3kHz
TX 11n HT20	Low-2412	-23.39	8dBm per 3kHz
	Middle-2437	-22.99	8dBm per 3kHz
	High-2462	-24.90	8dBm per 3kHz
TX 11n HT40	Low-2422	-26.81	8dBm per 3kHz
	Middle-2437	-27.89	8dBm per 3kHz
	High-2452	-26.93	8dBm per 3kHz



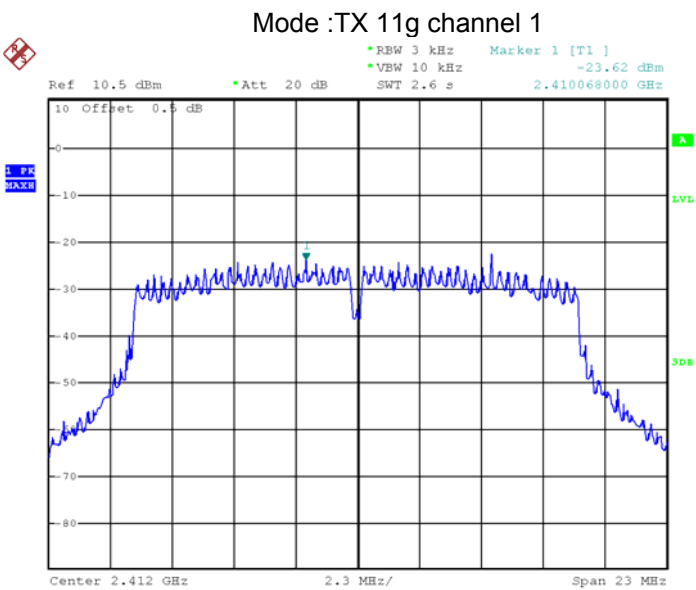
Date: 20.JUL.2018 03:20:30



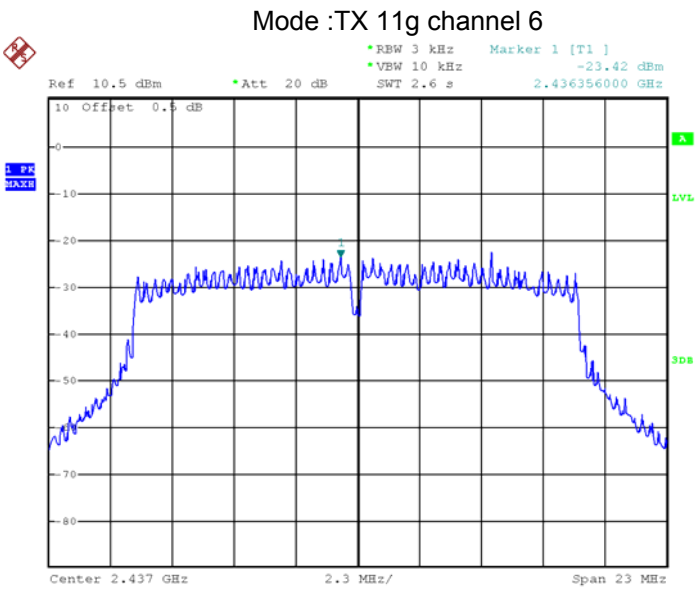
Date: 20.JUL.2018 03:26:01



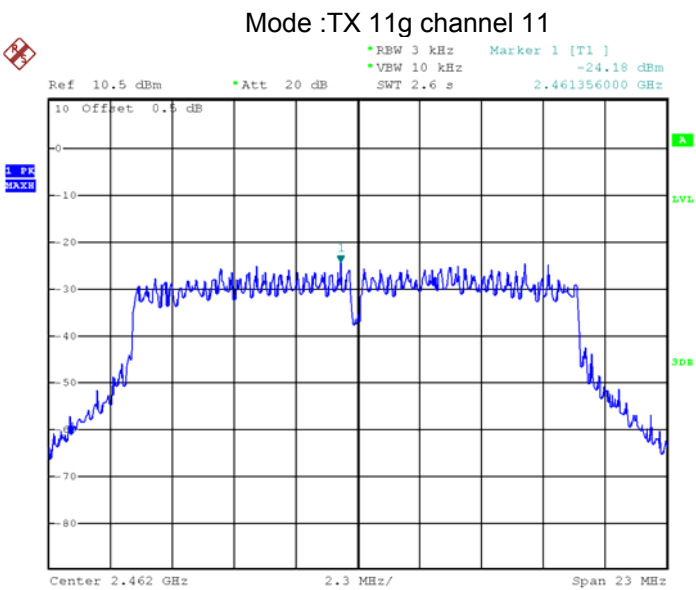
Date: 20.JUL.2018 03:28:10



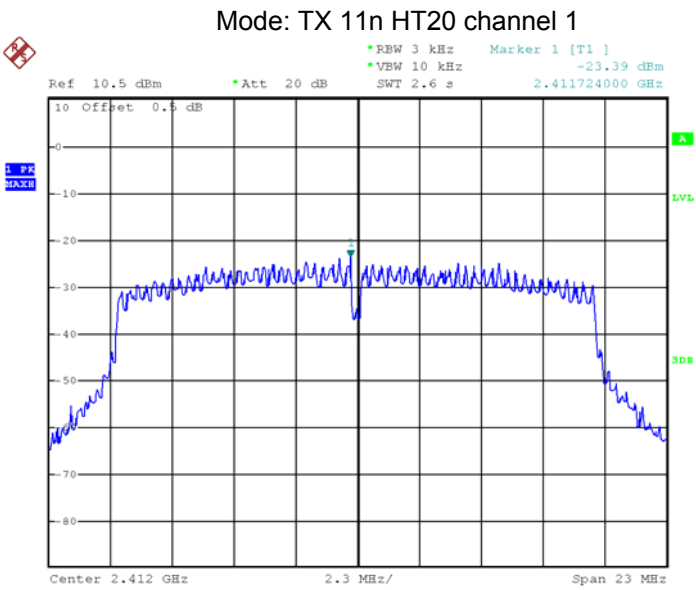
Date: 20.JUL.2018 03:46:03



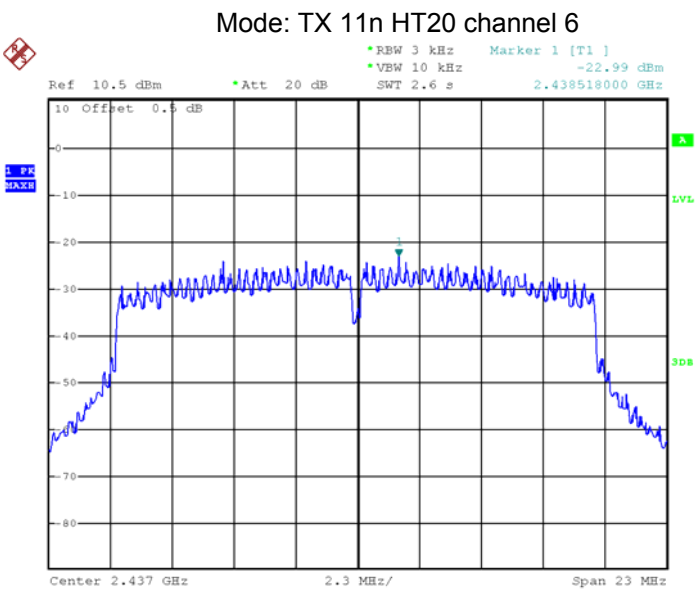
Date: 20.JUL.2018 03:51:33



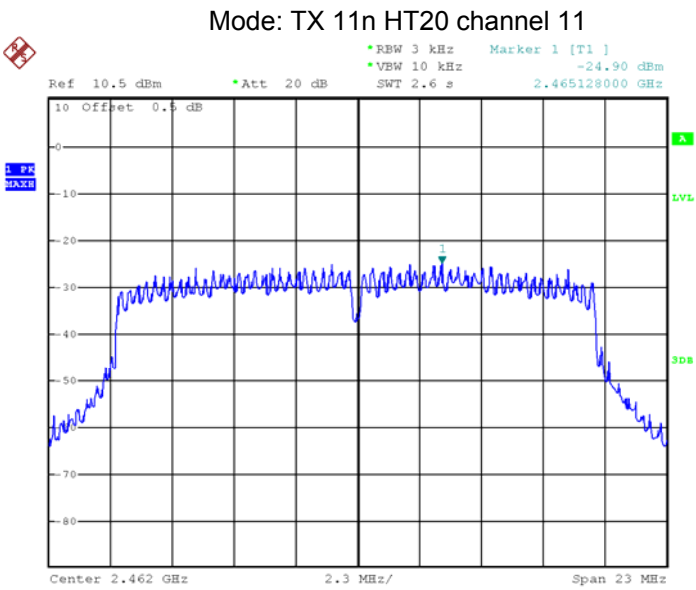
Date: 20.JUL.2018 03:54:18



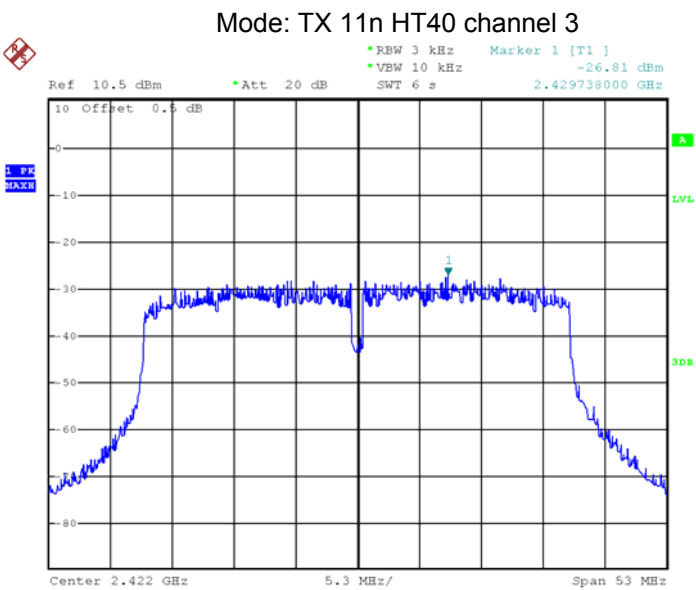
Date: 20.JUL.2018 04:02:03



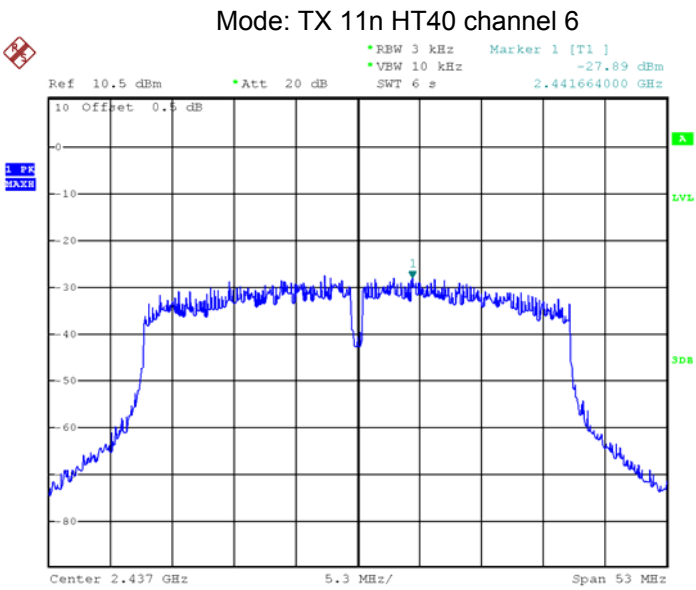
Date: 20.JUL.2018 04:07:59



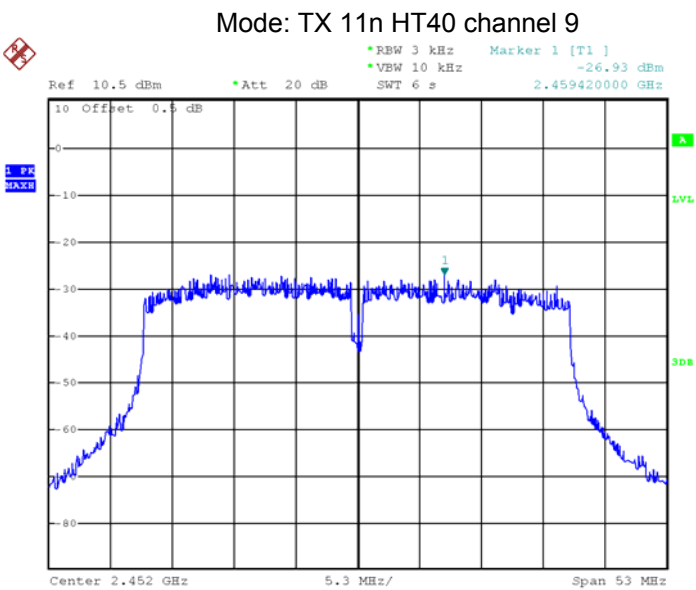
Date: 20.JUL.2018 04:09:41



Date: 20.JUL.2018 04:24:38



Date: 20.JUL.2018 04:30:26



Date: 20.JUL.2018 04:33:01

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 SAR test report: WTS18S07116993-1W.

17 Photographs of test setup and EUT.

Note: Please refer to appendix: WTS18S07116993W_Photo.

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