

TEST REPORT

Reference No...... : WTX21X07067513W-1
FCC ID : SYW-BR30AGT2R2
Applicant : Feit Electric Company
Address : 4901 Gregg Road Pico Rivera, California 90660, United States
Product Name : Self-Ballasted LED Lamps
Test Model : 112T800100M0-70-6500
Standards : FCC Part 15.247
Date of Receipt sample : Jul. 08, 2021
Date of Test..... : Jul. 08, 2021 to Aug. 02, 2021
Date of Issue : Aug. 02, 2021
Test Result..... : **Pass**

Remarks:

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

Prepared By:

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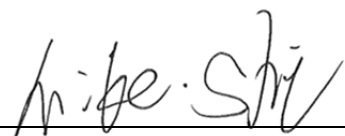
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Report version

Version No.	Date of issue	Description
Rev.00	Aug. 02, 2021	Original
/	/	/

1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant: Feit Electric Company
 Address of applicant: 4901 Gregg Road Pico Rivera, California 90660, United States

Manufacturer: Zhejiang Future Lighting Co., Ltd.
 Address of manufacturer: No.99, Jingfeng Road, Haining Warp Knitting Industrial Zone, Zhejiang

General Description of EUT	
Product Name:	Self-Ballasted LED Lamps
Trade Name:	/
Model No.:	112T800100M0-70-6500
Adding Model(s):	1134800100M0-XX, 1134800090M0-XX, 1134800070M0-XX, 1134800060M0-XX, 1134800050M0-XX, 1134800040M0-XX, 1134800088M0-XX, 1134800072M0-XX, 112T800100Mo-xx.yyyy, 112T800090Mo-xx.yyyy, 112T800070Mo-xx.YYYY, 1121800060M0-xx.yyyY, 112T800050M0-XX-YYYY, 112T800040Mo-xx.yyYY, 112T800088M0-XX-YYYY, 112T800072M0-XX-YYYY, BR30/927CA/AG(P), BR30/950CA/AG(P)("XX" represents Ra. can be 70-100, "YYYY" represents the color temperature, can be 20006500)
Rated Voltage:	AC120V/60Hz
Power Adapter Model:	/
<i>Note: The test data is gathered from a production sample provided by the manufacturer. The appearance of others models listed in the report is different from main-test model 112T800100M0-70-6500, but the circuit and the electronic construction do not change, declared by the manufacturer.</i>	

Technical Characteristics of EUT	
Support Standards:	802.11b, 802.11g, 802.11n
Frequency Range:	2412-2462MHz for 802.11b/g/n(HT20) 2422-2452MHz for 802.11n(HT40)
RF Output Power:	16.46dBm (Conducted)
Type of Modulation:	DBPSK,BPSK,DQPSK,QPSK,16QAM,64QAM
Quantity of Channels:	11 for 802.11b/g/n(HT20); 7 for 802.11n(HT40)
Channel Separation:	5MHz
Type of Antenna:	PCB Antenna
Antenna Gain:	1.9dBi

1.2 Test Standards

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz.

558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under section 15.247 of the Fcc rules.

662911 D01 Multiple Transmitter Output v02r01: Emissions Testing of Transmitters with Multiple Outputs in the Same Band.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices.

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product, which result in lowering the emission, should be checked to ensure compliance has been maintained.

1.3 Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, KDB 558074 D01 15.247 Meas Guidance v05r02, KDB 662911 D01 Multiple Transmitter Output v02r01

The equipment under test (EUT) was configured to measure its highest possible emission level. The test modes were adapted accordingly in reference to the Operating Instructions.

1.4 Test Facility

Address of the test laboratory

Laboratory: Waltek Testing Group (Shenzhen) Co., Ltd.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

FCC – Registration No.: 125990

Waltek Testing Group (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. The Designation Number is CN5010, and Test Firm Registration Number is 125990.

Industry Canada (IC) Registration No.: 11464A

The 3m Semi-anechoic chamber of Waltek Testing Group (Shenzhen) Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 11464A.

1.5 EUT Setup and Test Mode

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements. All testing shall be performed under maximum output power condition, with a duty cycle equal to 100%, and to measure its highest possible emissions level, more detailed description as follows:

Test Mode List		
Test Mode	Description	Remark
TM1	802.11b	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM2	802.11g	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM3	802.11n-HT20	Low:2412MHz, Middle:2437MHz,High:2462MHz
TM4	802.11n-HT40	Low:2422MHz, Middle:2437MHz,High:2452MHz

Test Conditions	
Temperature:	22~25 °C
Relative Humidity:	45~55 %.
ATM Pressure:	1019 mbar

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Special Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

1.6 Measurement Uncertainty

Measurement uncertainty		
Parameter	Conditions	Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Power Spectral Density	Conducted	$\pm 1.8\text{dB}$
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Conducted Emissions	Conducted	9-150kHz $\pm 3.74\text{dB}$
		0.15-30MHz $\pm 3.34\text{dB}$
Transmitter Spurious Emissions	Radiated	30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
		6-26GHz $\pm 3.92\text{dB}$

1.7 Test Equipment List and Details

No.	Description	Manufacturer	Model	Serial No.	Cal Date	Due. Date
SEMT-1075	Communication Tester	Rohde & Schwarz	CMW500	148650	2021-03-27	2022-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2021-03-27	2022-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2021-03-27	2022-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2021-03-27	2022-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2021-03-27	2022-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2021-03-27	2022-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2021-03-27	2022-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2021-03-27	2022-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2021-03-27	2022-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2021-03-27	2022-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2021-04-12	2022-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2021-04-12	2022-04-11
SEMT-1069	Loop Antenna	Schwarz beck	FMZB 1516	9773	2021-03-19	2023-03-18
SEMT-1068	Broadband Antenna	Schwarz beck	VULB9163	9163-333	2021-03-19	2023-03-18
SEMT-1042	Horn Antenna	ETS	3117	00086197	2021-03-19	2023-03-18
SEMT-1121	Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170582	2021-04-27	2023-04-26
SEMT-1169	Pre-amplifier	Direction Systems Inc.	PAP-2640	14145-14153	2021-04-27	2022-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2021-03-27	2022-03-26
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2021-03-27	2022-03-26
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2021-03-19	2023-03-18
SEMT-C001	Cable	Zheng DI	LL142-07-07-10M(A)	/	/	/
SEMT-C002	Cable	Zheng DI	ZT40-2.92J-2.92J-6M	/	/	/
SEMT-C003	Cable	Zheng DI	ZT40-2.92J-2.92J-2.5M	/	/	/
SEMT-C004	Cable	Zheng DI	2M0RFC	/	/	/
SEMT-C005	Cable	Zheng DI	1M0RFC	/	/	/
SEMT-C006	Cable	Zheng DI	1M0RFC	/	/	/

Software List			
Description	Manufacturer	Model	Version
EMI Test Software (Radiated Emission)*	Farad	EZ-EMC	RA-03A1
EMI Test Software (Conducted Emission)*	Farad	EZ-EMC	RA-03A1

*Remark: indicates software version used in the compliance certification testing.

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test Item	Result
§15.203; §15.247(b)(4)(i)	Antenna Requirement	Compliant
§15.205	Restricted Band of Operation	Compliant
§15.207(a)	Conducted Emission	Compliant
§15.247(e)	Power Spectral Density	Compliant
§15.247(a)(2)	DTS Bandwidth	Compliant
§15.247(b)(3)	RF Output Power	Compliant
§15.209(a)	Radiated Emission	Compliant
§15.247(d)	Band Edge (Out of Band Emissions)	Compliant

N/A: Not applicable.

3. Antenna Requirement

3.1 Standard Applicable

According to FCC Part 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. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section.

3.2 Evaluation Information

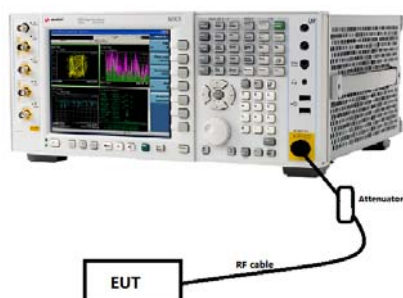
This product has a PCB antenna, fulfill the requirement of this section.

4. Power Spectral Density

4.1 Standard Applicable

According to 15.247(a)(1)(iii), for digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

4.2 Test Setup Block Diagram



4.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.10.3, such specifications require that the same method as used to determine the conducted output power shall also be used to determine the power spectral density. The test method of power spectral density as below:

- a) Set instrument center frequency to DTS channel center frequency.
- b) Set span to at least 1.5 times the OBW.
- c) Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- d) Set VBW $\geq 3 \times \text{RBW}$.
- e) Detector = power averaging (RMS) or sample detector (when RMS not available).
- f) Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span}/\text{RBW}$.
- g) Sweep time = auto couple.
- h) Employ trace averaging (RMS) mode over a minimum of 100 traces.
- i) Use the peak marker function to determine the maximum amplitude level.
- j) If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat (note that this may require zooming in on the emission of interest and reducing the span in order to meet the minimum measurement point requirement as the RBW is reduced).

4.4 Summary of Test Results/Plots

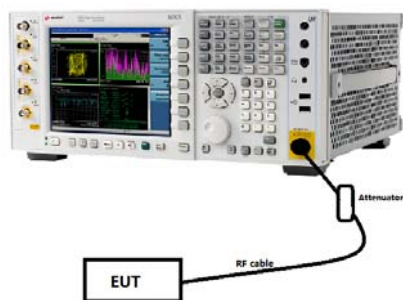
Please refer to Appendix A

5. DTS Bandwidth

5.1 Standard Applicable

According to 15.247(a)(2), systems using digital modulation techniques may operate in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands. The minimum 6 dB bandwidth shall be at least 500kHz.

5.2 Test Setup Block Diagram



5.3 Test Procedure

According to the KDB 558074 D01 v05r02 Subclause 8.2 and ANSI C63.10-2013 Subclause 11.8.1, the test method of DTS Bandwidth as below:

- Set RBW = 100kHz.
- Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
- Detector = Peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.4 Summary of Test Results/Plots

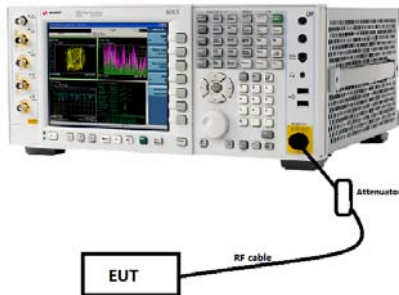
Please refer to Appendix B

6. RF Output Power

6.1 Standard Applicable

According to 15.247(b)(3), for systems using digital modulation in the 902–928MHz, 2400–2483.5MHz, and 5725–5850MHz bands: 1 Watt.

6.2 Test Setup Block Diagram



6.3 Test Procedure

According to the KDB-558074 D01 v05r02 Subclause 8.3.2.2 and ANSI C63.10-2013 Subclause 11.9.2.2, when this option is exercised, the measured power is to be referenced to the OBW rather than the DTS bandwidth.

- a) Set span to at least 1.5 times the OBW.
- b) Set RBW = 1-5% of the OBW, not to exceed 1MHz.
- c) Set VBW $\geq 3 \times$ RBW.
- d) Number of points in sweep $\geq 2 \times \text{span} / \text{RBW}$. (This gives bin-to-bin spacing $\leq \text{RBW}/2$, so that narrowband signals are not lost between frequency bins.)
- e) Sweep time = auto.
- f) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.
- g) If transmit duty cycle < 98 %, use a sweep trigger with the level set to enable triggering only on full power pulses. The transmitter shall operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle ≥ 98 %, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to “free run”.
- h) Trace average at least 100 traces in power averaging (i.e., RMS) mode.
- i) Compute power by integrating the spectrum across the OBW of the signal using the instrument’s band power measurement function, with band limits set equal to the OBW band edges. If the instrument does not have a band power function, sum the spectrum levels (in power units) at intervals equal to the RBW extending across the entire OBW of the spectrum.

6.4 Summary of Test Results/Plots

Please refer to Appendix C

7. Field Strength of Spurious Emissions

7.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. Spurious Radiated Emissions measurements starting below or at the lowest crystal frequency.

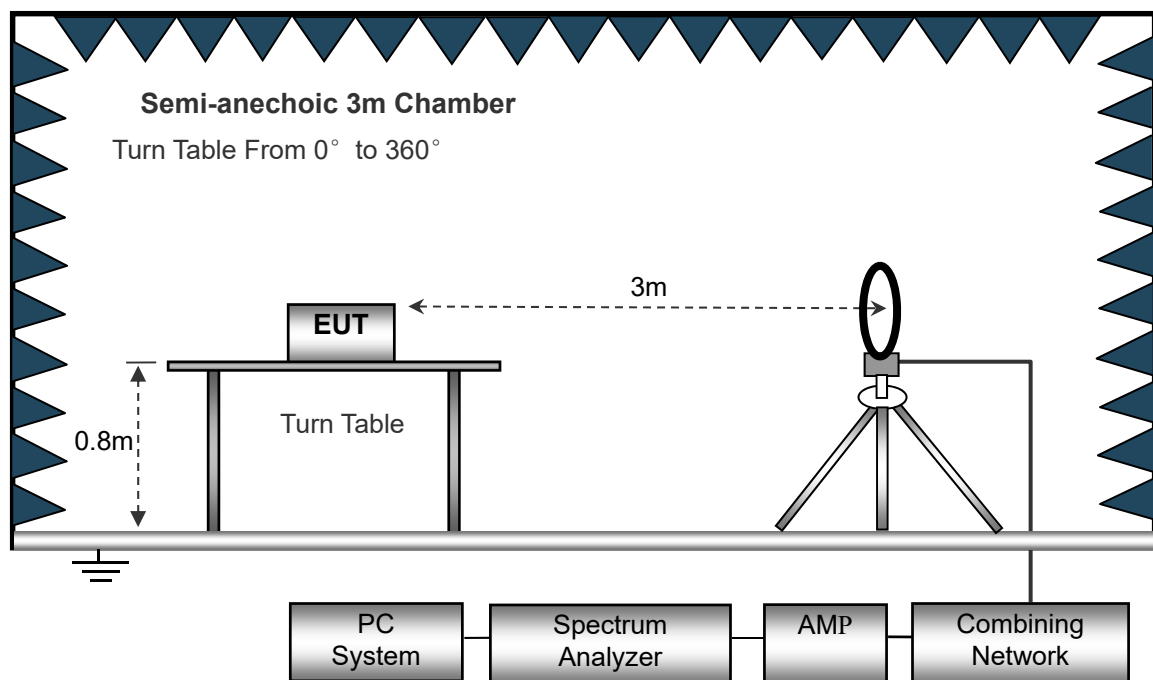
7.2 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.205 15.247(a) and FCC Part 15.209 Limit.

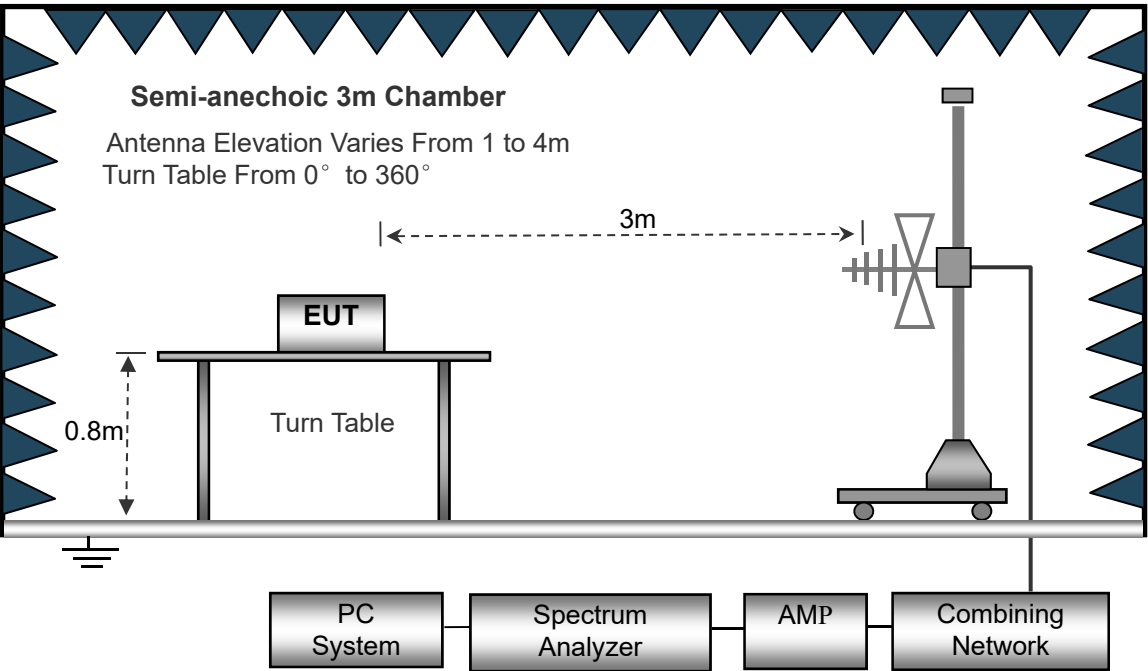
The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

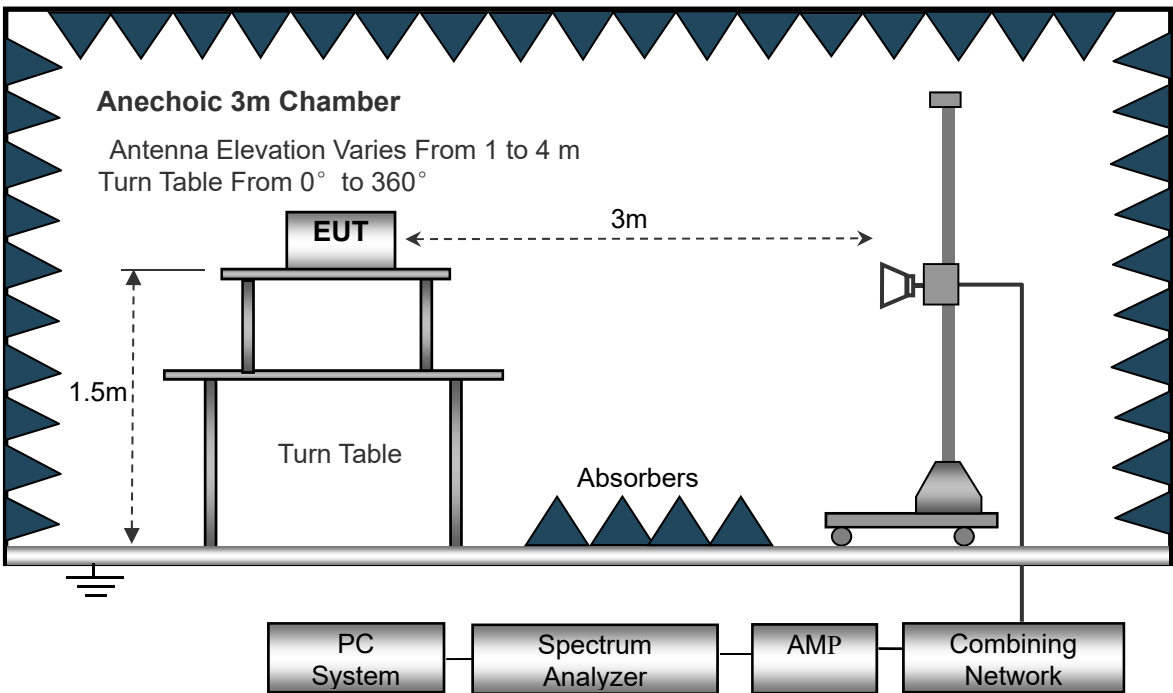
The test setup for emission measurement below 30MHz.



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



The test setup for emission measurement above 1GHz.



Frequency :9kHz-30MHz	Frequency :30MHz-1GHz	Frequency :Above 1GHz
RBW=10KHz,	RBW=120KHz,	RBW=1MHz,
VBW =30KHz	VBW=300KHz	VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto	Sweep time= Auto	Sweep time= Auto
Trace = max hold	Trace = max hold	Trace = max hold
Detector function = peak	Detector function = peak, QP	Detector function = peak, AV

7.3 Corrected Amplitude & Margin Calculation

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

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

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of -6dB μ V means the emission is 6dB μ V below the maximum limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Corr. Ampl.} - \text{FCC Part 15 Limit}$$

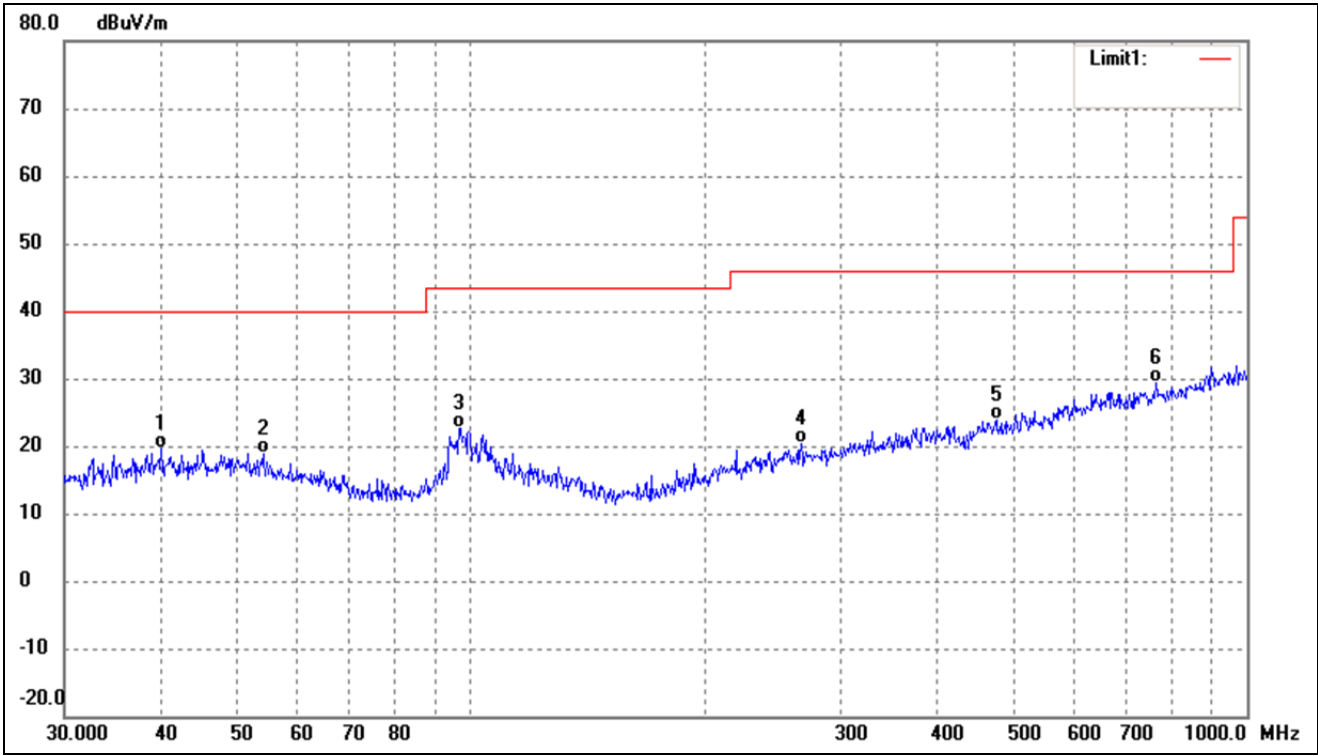
7.4 Summary of Test Results/Plots

Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.

All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b_11Mbps) is recorded in this report.

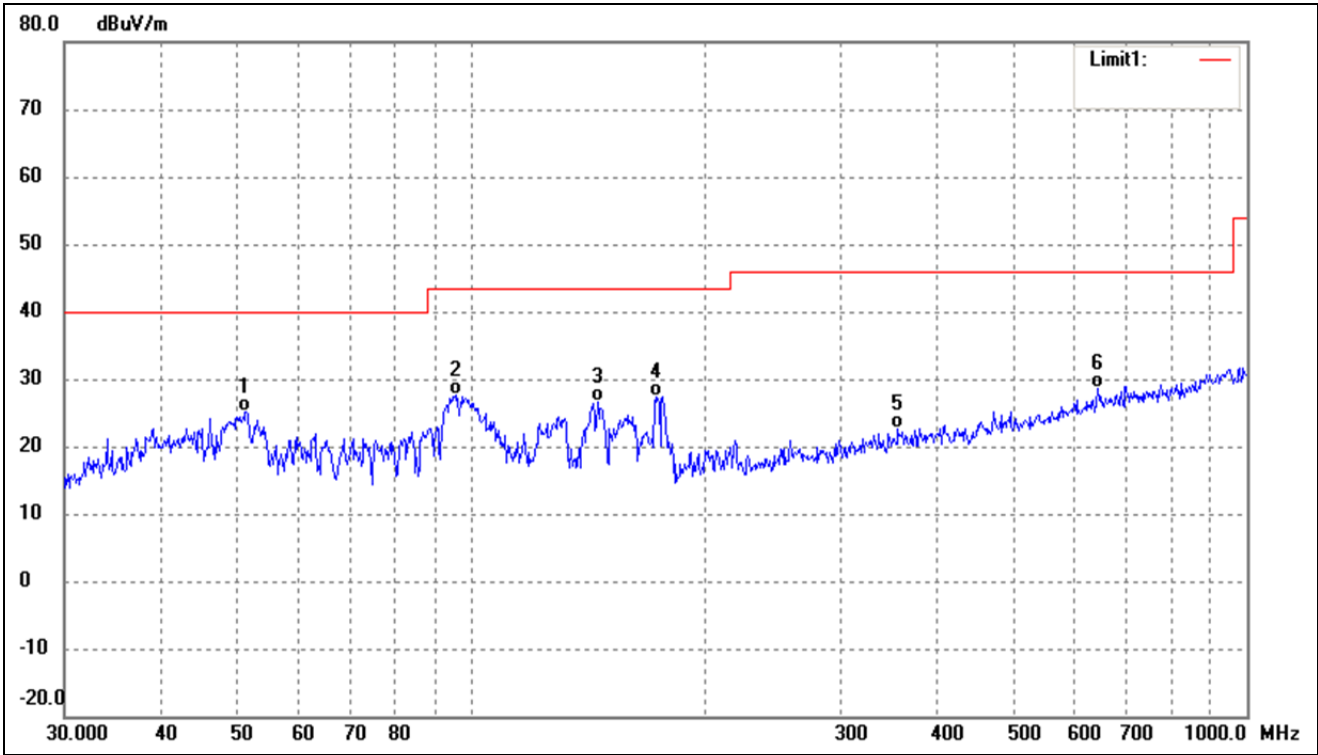
➤ Spurious Emissions Below 1GHz

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



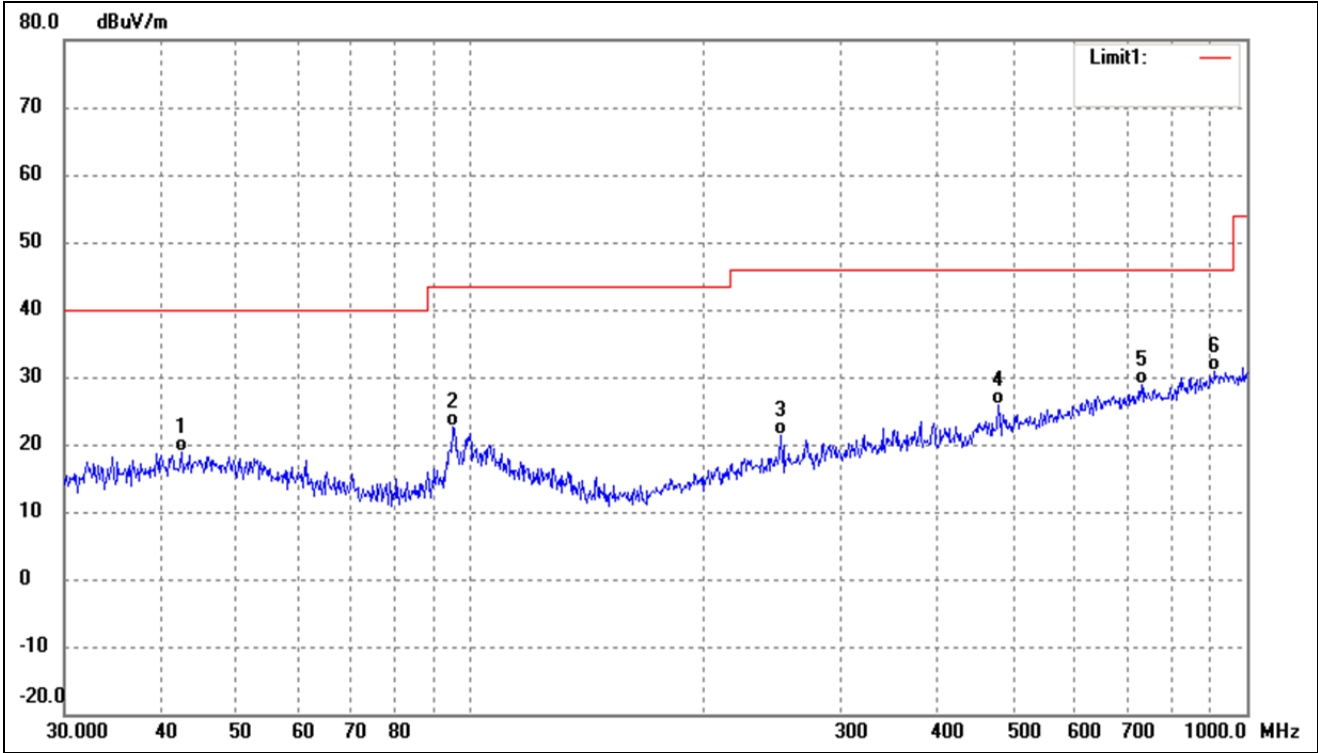
No.	Frequency	Reading	Correct	Result	Limit	Margin	Degree	Height	Remark
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	()	(cm)	
1	39.9942	27.44	-7.86	19.58	40.00	-20.42	-	-	QP
2	54.0711	27.62	-8.68	18.94	40.00	-21.06	-	-	QP
3	96.7749	32.21	-9.50	22.71	43.50	-20.79	-	-	QP
4	266.6089	26.79	-6.29	20.50	46.00	-25.50	-	-	QP
5	475.4991	26.80	-2.95	23.85	46.00	-22.15	-	-	QP
6	763.3757	28.06	1.29	29.35	46.00	-16.65	-	-	QP

802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical



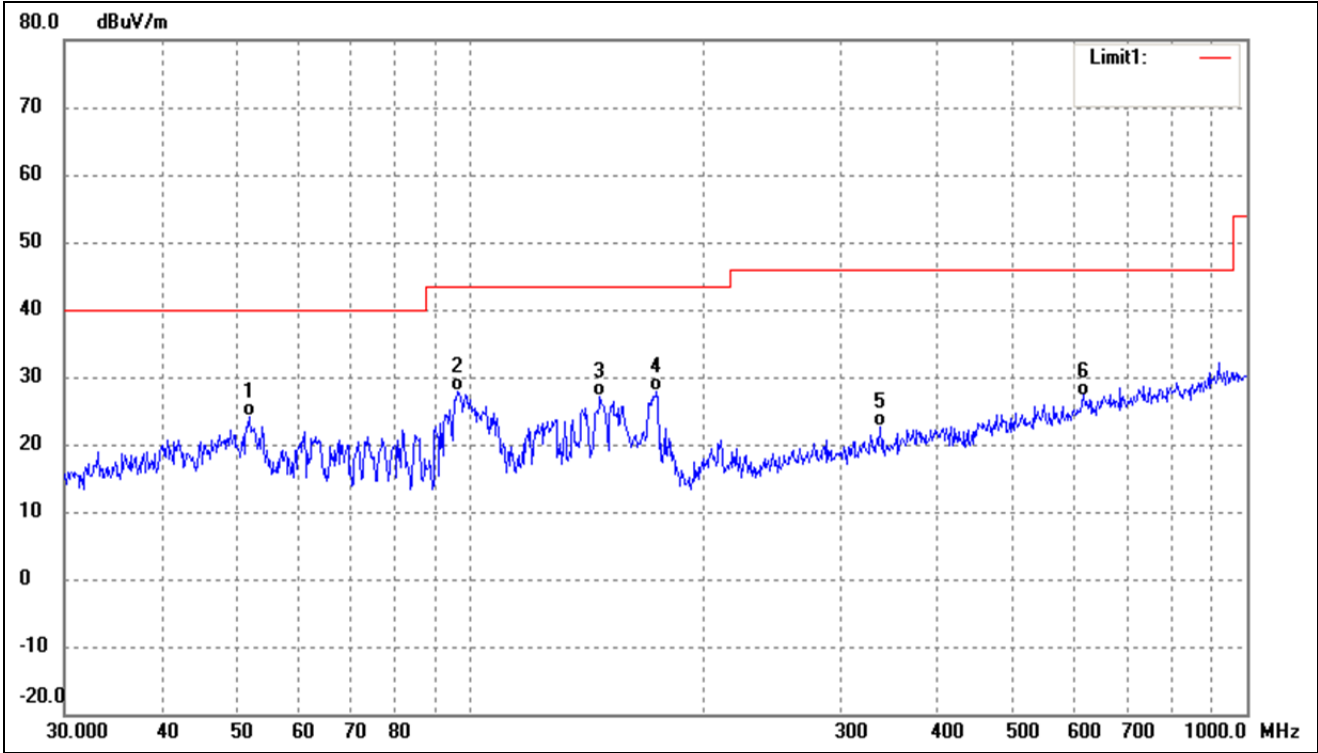
No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.3005	33.29	-8.22	25.07	40.00	-14.93	-	-	QP
2	95.7622	37.42	-9.77	27.65	43.50	-15.85	-	-	QP
3	145.8611	38.63	-12.06	26.57	43.50	-16.93	-	-	QP
4	173.2051	38.38	-10.97	27.41	43.50	-16.09	-	-	QP
5	355.4273	27.34	-4.63	22.71	46.00	-23.29	-	-	QP
6	642.8613	28.91	-0.22	28.69	46.00	-17.31	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Horizontal



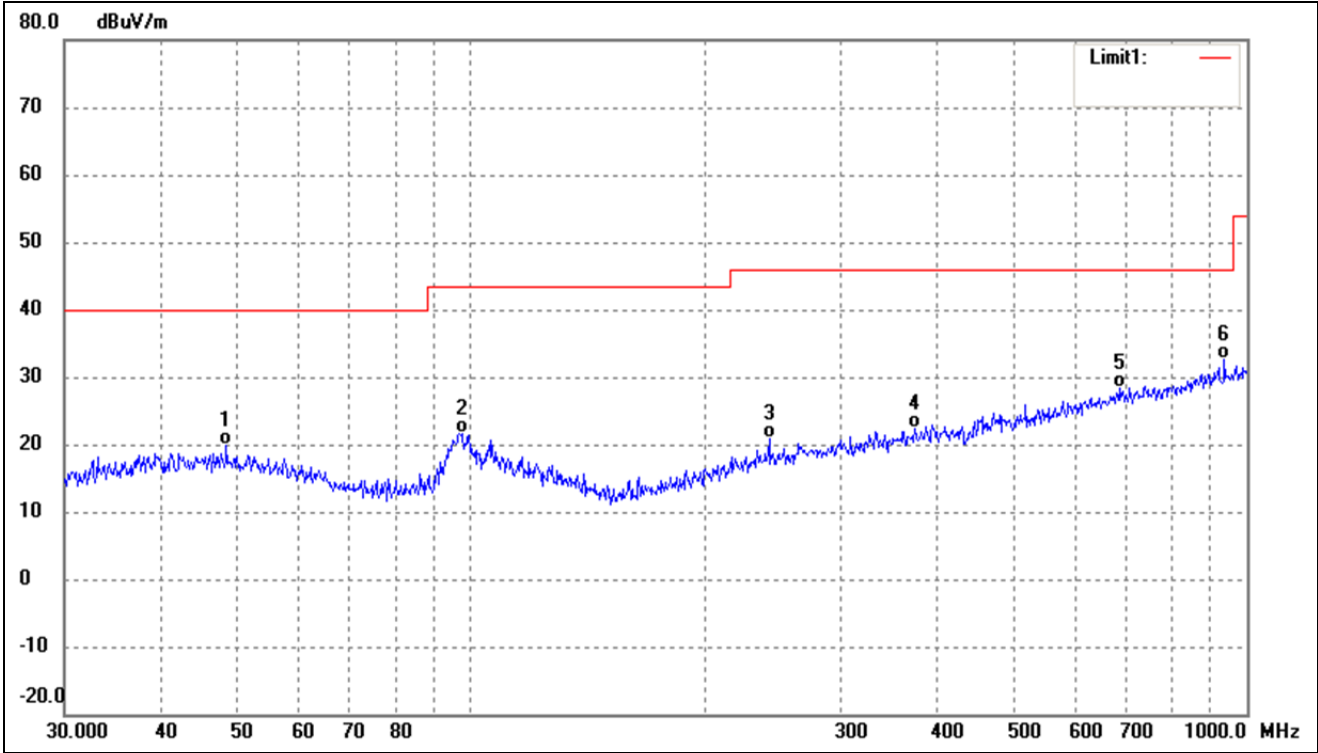
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	42.4508	26.85	-7.90	18.95	40.00	-21.05	-	-	QP
2	95.0930	32.70	-9.96	22.74	43.50	-20.76	-	-	QP
3	251.1804	27.90	-6.59	21.31	46.00	-24.69	-	-	QP
4	478.8456	28.80	-2.91	25.89	46.00	-20.11	-	-	QP
5	731.9203	27.89	0.95	28.84	46.00	-17.16	-	-	QP
6	909.6667	27.36	3.56	30.92	46.00	-15.08	-	-	QP

802.11b_11Mbps			
Test Channel	Middle	Polarity:	Vertical



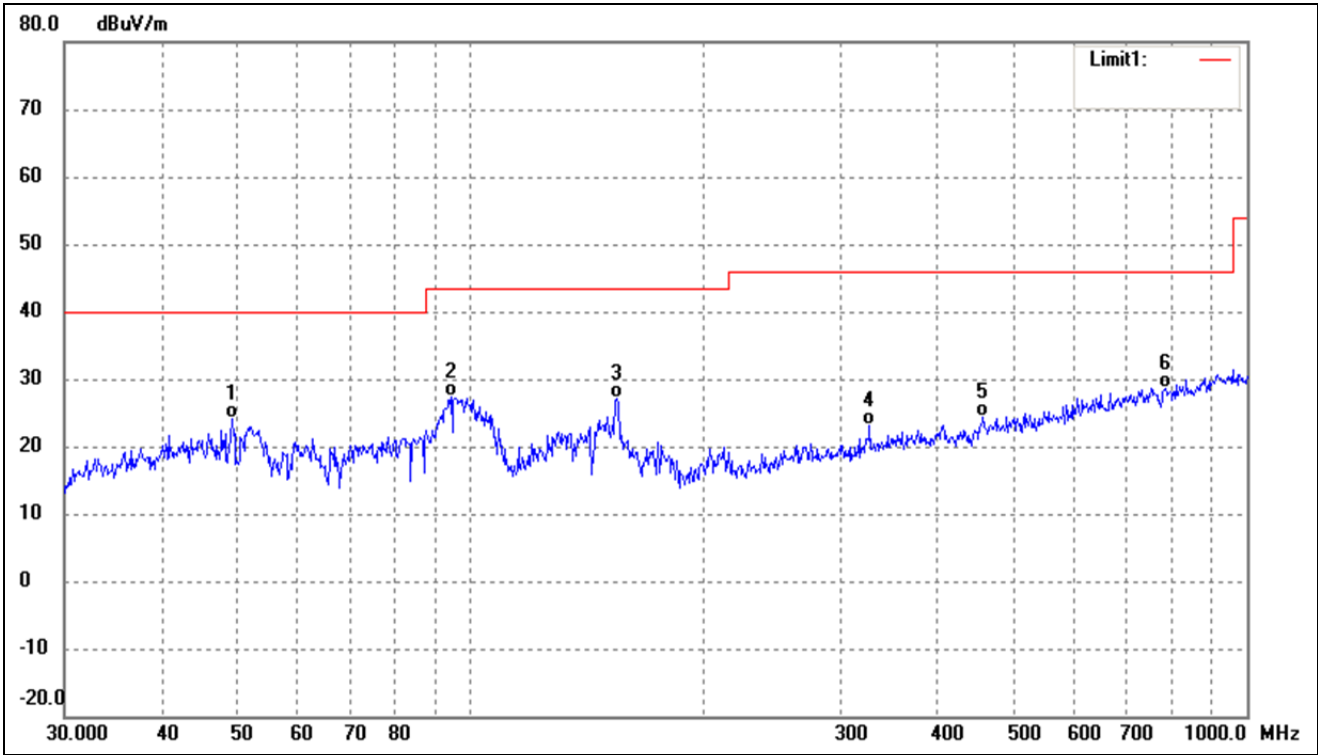
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	51.8430	32.34	-8.30	24.04	40.00	-15.96	-	-	QP
2	96.4362	37.37	-9.60	27.77	43.50	-15.73	-	-	QP
3	146.8877	39.16	-12.09	27.07	43.50	-16.43	-	-	QP
4	173.8135	38.92	-10.94	27.98	43.50	-15.52	-	-	QP
5	337.2155	27.55	-4.96	22.59	46.00	-23.41	-	-	QP
6	616.3718	27.87	-0.62	27.25	46.00	-18.75	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV/m)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	48.5016	27.88	-7.98	19.90	40.00	-20.10	-	-	QP
2	97.4560	30.88	-9.32	21.56	43.50	-21.94	-	-	QP
3	242.5253	27.90	-6.96	20.94	46.00	-25.06	-	-	QP
4	373.3112	26.82	-4.32	22.50	46.00	-23.50	-	-	QP
5	684.7454	28.09	0.40	28.49	46.00	-17.51	-	-	QP
6	935.5463	28.88	3.77	32.65	46.00	-13.35	-	-	QP

802.11b_11Mbps			
Test Channel	High	Polarity:	Vertical



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	49.3594	32.00	-7.99	24.01	40.00	-15.99	-	-	QP
2	94.4284	37.64	-10.15	27.49	43.50	-16.01	-	-	QP
3	154.2786	38.97	-11.95	27.02	43.50	-16.48	-	-	QP
4	326.7395	28.29	-5.15	23.14	46.00	-22.86	-	-	QP
5	457.5073	27.65	-3.16	24.49	46.00	-21.51	-	-	QP
6	785.0935	27.03	1.53	28.56	46.00	-17.44	-	-	QP

Remark: ‘-’Means’ the test Degree and Height are not recorded by the test software and only show the worst case in the test report.

- Spurious Emissions Above 1GHz
- Test Mode: 802.11b_11Mbps (worst case)

Frequency	Reading	Correct	Result	Limit	Margin	Polar	Detector
(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
Low Channel-2412MHz							
4824.000	63.74	-3.87	59.87	74	-14.13	H	PK
4824.000	52.02	-3.87	48.15	54	-5.85	H	AV
7236.000	57.87	1.14	59.01	74	-14.99	H	PK
7236.000	39.81	1.19	41.00	54	-13.00	H	AV
4824.000	62.67	-3.86	58.81	74	-15.19	V	PK
4824.000	49.49	-3.86	45.63	54	-8.37	V	AV
7236.000	56.17	1.10	57.27	74	-16.73	V	PK
7236.000	38.85	1.10	39.95	54	-14.05	V	AV
Middle Channel-2437MHz							
4874.000	62.89	-3.74	59.15	74	-14.85	H	PK
4874.000	51.28	-3.74	47.54	54	-6.46	H	AV
7311.000	56.54	1.47	58.01	74	-15.99	H	PK
7311.000	38.89	1.47	40.36	54	-13.64	H	AV
4874.000	61.91	-3.74	58.17	74	-15.83	V	PK
4874.000	49.68	-3.74	45.94	54	-8.06	V	AV
7311.000	56.96	1.47	58.43	74	-15.57	V	PK
7311.000	37.86	1.47	39.33	54	-14.67	V	AV
High Channel-2462MHz							
4924.000	63.67	-3.59	60.08	74	-13.92	H	PK
4924.000	52.34	-3.59	48.75	54	-5.25	H	AV
7386.000	55.95	1.79	57.74	74	-16.26	H	PK
7386.000	39.72	1.79	41.51	54	-12.49	H	AV
4924.000	63.41	-3.59	59.82	74	-14.18	V	PK
4924.000	49.49	-3.59	45.90	54	-8.10	V	AV
7386.000	58.37	1.79	60.16	74	-13.84	V	PK
7386.000	38.69	1.79	40.48	54	-13.52	V	AV

Note: Testing is carried out with frequency rang 9kHz to the tenth harmonics, other than listed in the table above are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

8. Out of Band Emissions

8.1 Standard Applicable

According to §15.247(d), in any 100kHz 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 20dB below that in the 100kHz 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 30dB instead of 20dB. 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).

8.2 Test Procedure

According to the KDB 558074D01 v05r02 Subclause 8.4 and ANSI C63.10-2013 Subclause 11.11, the Emissions in nonrestricted frequency bands test method as follows:

- a) Set the center frequency and span to encompass frequency range to be measured.
- b) Set the RBW = 100kHz.
- c) Set the VBW $\geq [3 \times \text{RBW}]$.
- d) Detector = peak.
- e) Sweep time = auto couple.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use the peak marker function to determine the maximum amplitude level.

According to the KDB 558074 D01 v05r02 Subclause 8.5 and ANSI C63.10-2013 Subclause 11.12, the Emissions in restricted frequency bands test method as follows:

A. Radiated emission measurements:

Set span = wide enough to capture the peak level of the emission operating on the channel closest to the bandedge, as well as any modulation products which fall outside of the authorized band of operation (2310MHz to 2420MHz for low bandedge, 2460MHz to 2500MHz for the high bandedge)

RBW = 1MHz, VBW = 1MHz for peak value measured

RBW = 1MHz, VBW = 10Hz for average value measured

Sweep = auto; Detector function = peak/average; Trace = max hold

All the trace to stabilize, set the marker on the emission at the bandedge, or on the highest modulation product outside of the band, if this level is greater than that at the bandedge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. Those emission must comply with the 15.209 limit for fall in the restricted bands listed in section 15.205. Note that the method of measurement

KDB publication number: 913591 may be used for the radiated bandedge measurements.

B. Antenna-port conducted measurements

Peak emission levels are measured by setting the instrument as follows:

- a) RBW = as specified in Table 9.
- b) $VBW \geq [3 \times RBW]$.
- c) Detector = peak.
- d) Sweep time = auto.
- e) Trace mode = max hold.
- f) Allow sweeps to continue until the trace stabilizes. (Note that the required measurement time may be lengthened for low-duty-cycle applications.)

Table 9—RBW as a function of frequency

Frequency	RBW
9 kHz to 150 kHz	200 Hz to 300 Hz
0.15 MHz to 30 MHz	9 kHz to 10 kHz
30 MHz to 1000 MHz	100 kHz to 120 kHz
>1000 MHz	1 MHz

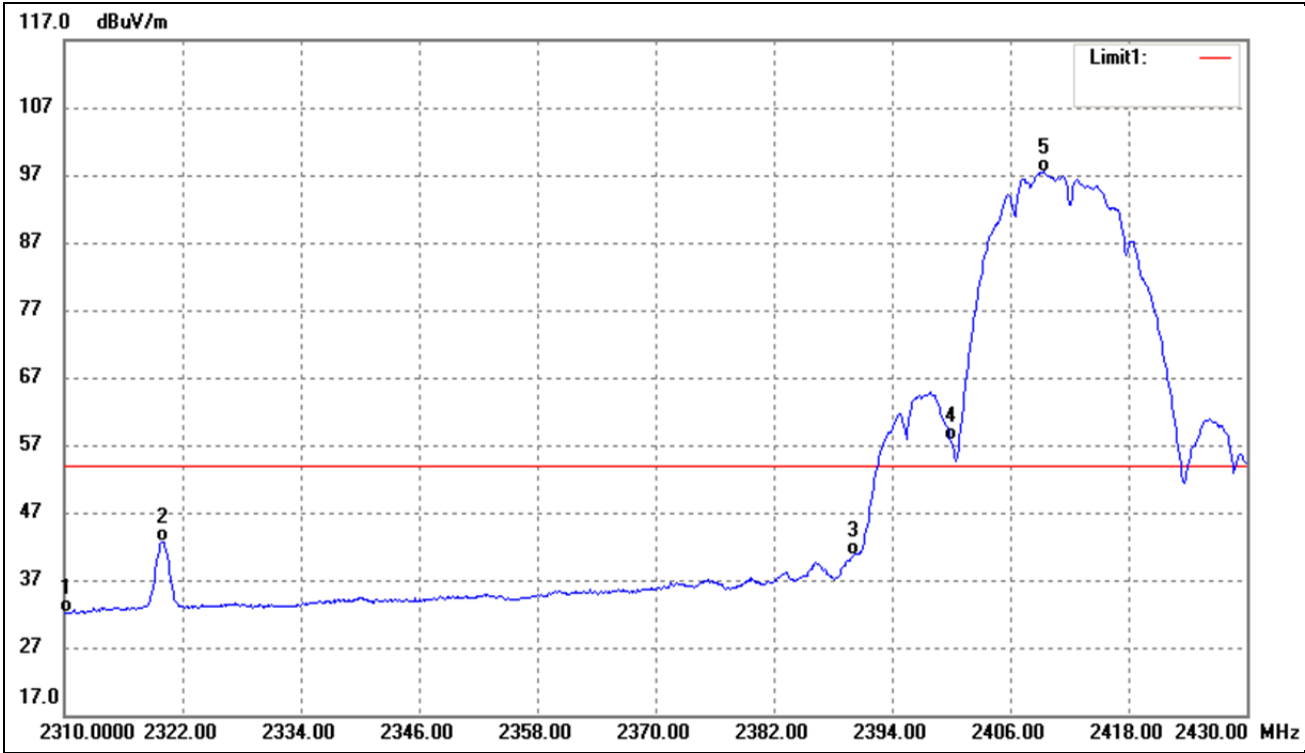
If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) are attenuated by at least the minimum requirements specified in section 8.1. Report the three highest emissions relative to the limit.

8.3 Summary of Test Results/Plots

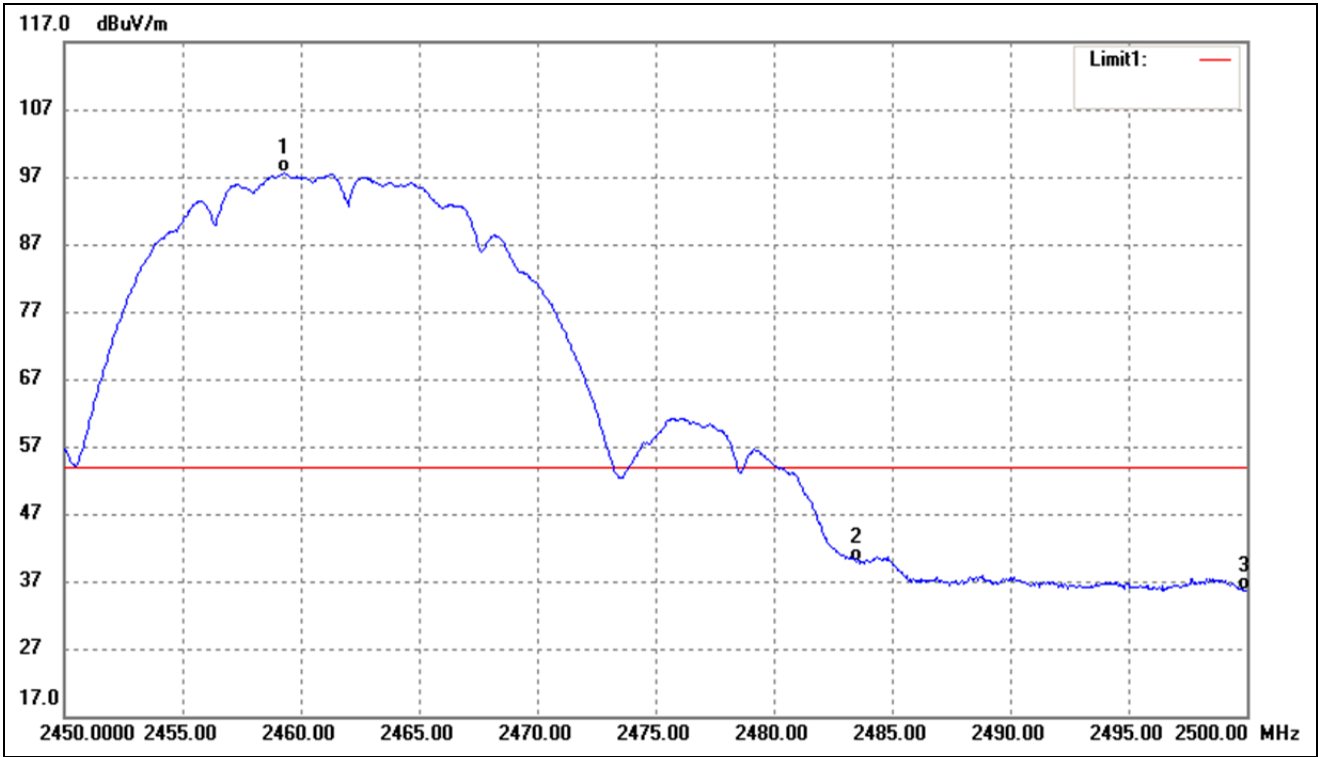
➤ Radiated test

802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal (worst case)



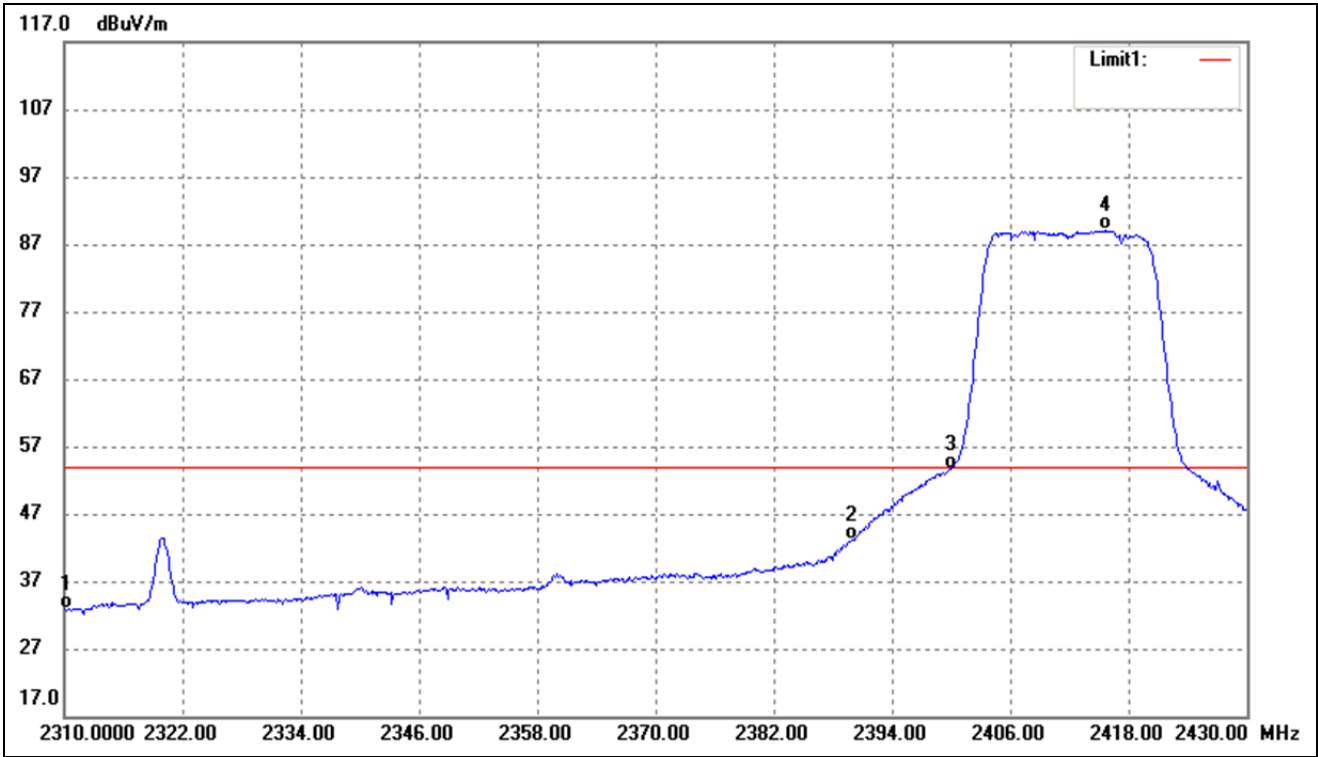
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	41.82	-9.66	32.16	54.00	-21.84	Average Detector
	2310.000	53.74	-9.66	44.08	74.00	-29.92	Peak Detector
2	2319.960	52.36	-9.64	42.72	54.00	-11.28	Average Detector
3	2390.000	50.02	-9.50	40.52	54.00	-13.48	Average Detector
	2390.000	61.16	-9.50	51.66	74.00	-22.34	Peak Detector
4	2400.000	67.12	-9.48	57.64	Delta=39.86dBc		Average Detector
5	2409.360	106.97	-9.47	97.50			Average Detector

802.11b_11Mbps			
Test Channel	High	Polarity:	Horizontal (worst case)



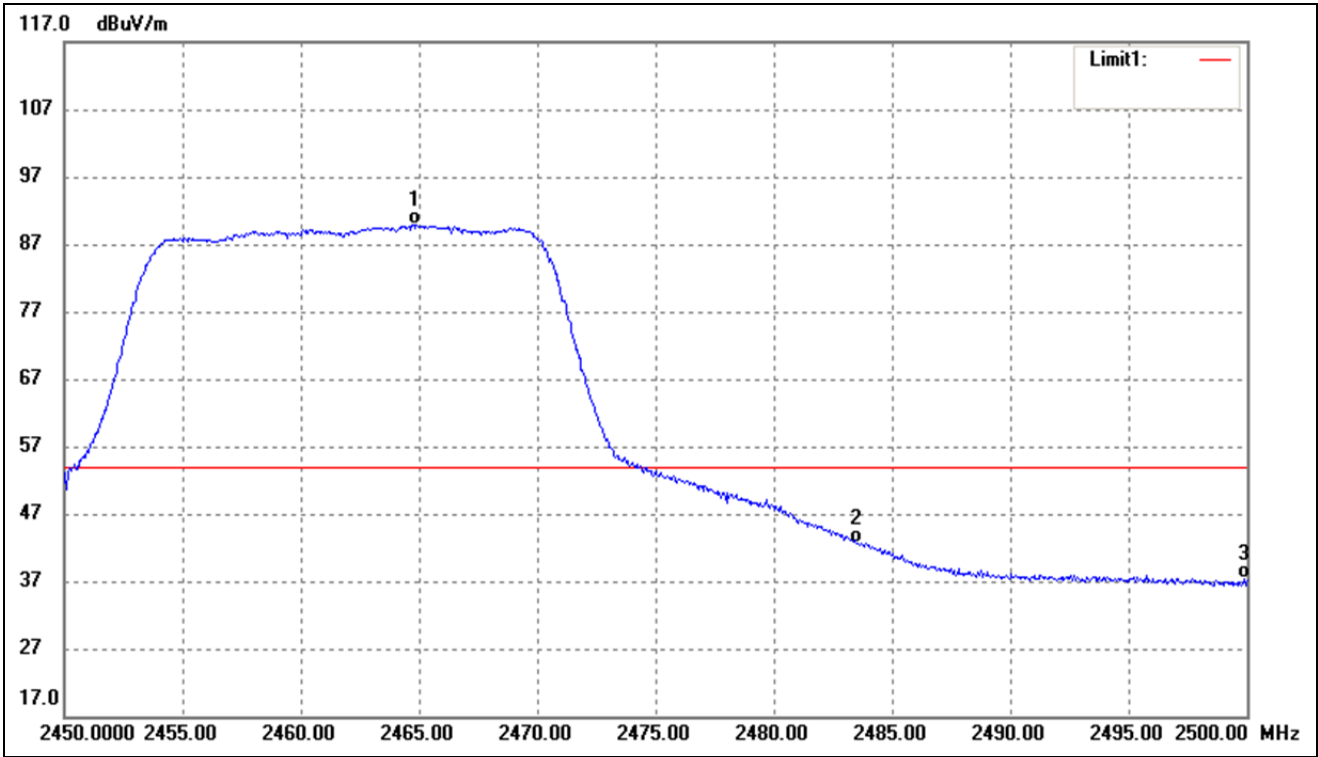
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2459.300	106.87	-9.36	97.51	/	/	Average Detector
	2462.450	112.70	-9.36	103.34	/	/	Peak Detector
2	2483.500	49.29	-9.31	39.98	54.00	-14.02	Average Detector
	2483.500	59.93	-9.31	50.62	74.00	-23.38	Peak Detector
3	2500.000	44.91	-9.28	35.63	54.00	-18.37	Average Detector
	2500.000	56.35	-9.28	47.07	74.00	-26.93	Peak Detector

802.11g_54Mbps			
Test Channel	Low	Polarity:	Horizontal (worst case)



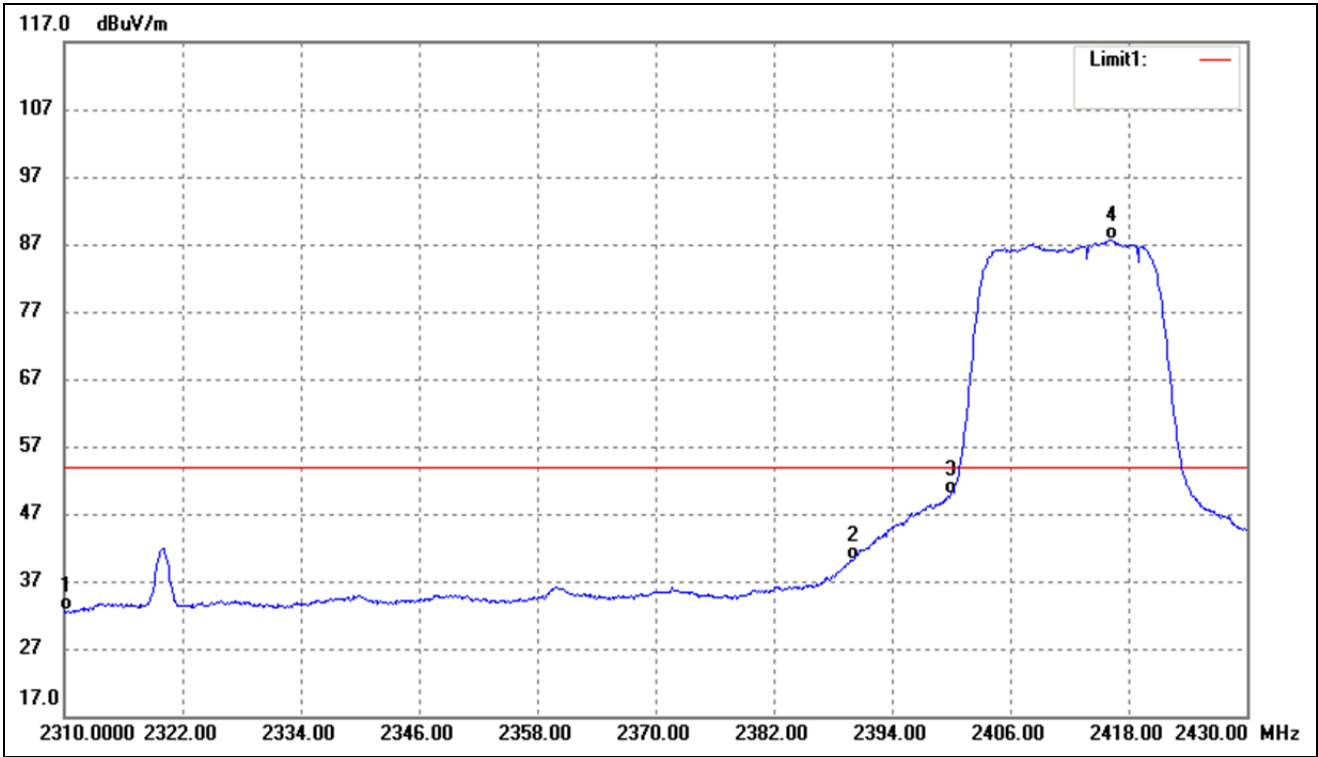
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.60	-9.66	32.94	54.00	-21.06	Average Detector
	2310.000	54.03	-9.66	44.37	74.00	-29.63	Peak Detector
2	2390.000	52.61	-9.50	43.11	54.00	-10.89	Average Detector
	2390.000	70.34	-9.50	60.84	74.00	-13.16	Peak Detector
3	2400.000	63.21	-9.48	53.73	Delta=35.32dBc		Average Detector
4	2415.720	98.51	-9.46	89.05			Average Detector

802.11g_54Mbps			
Test Channel	High	Polarity:	Horizontal (worst case)



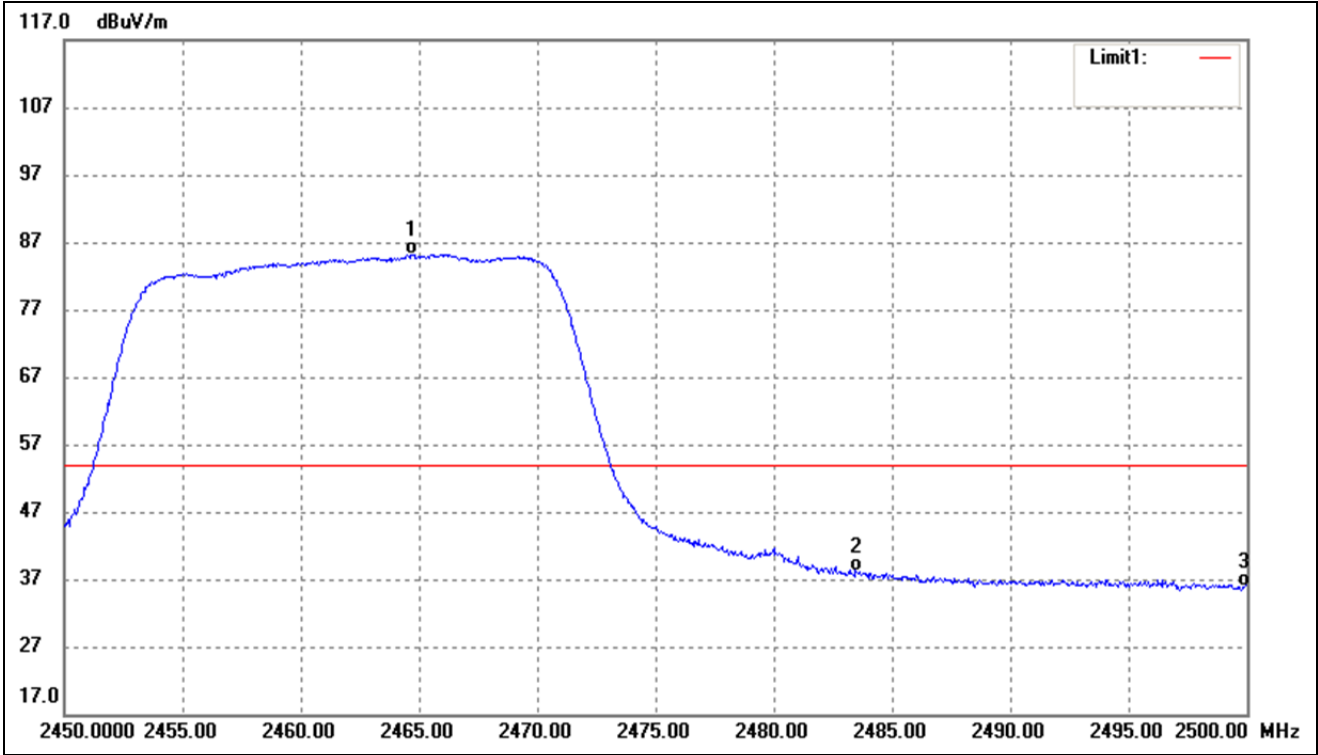
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.800	99.22	-9.35	89.87	/	/	Average Detector
	2464.750	109.20	-9.35	99.85	/	/	Peak Detector
2	2483.500	52.01	-9.31	42.70	54.00	-11.30	Average Detector
	2483.500	68.26	-9.31	58.95	74.00	-15.05	Peak Detector
3	2500.000	46.62	-9.28	37.34	54.00	-16.66	Average Detector
	2500.000	57.69	-9.28	48.41	74.00	-25.59	Peak Detector

802.11n-HT20_MCS7			
Test Channel	Low	Polarity:	Horizontal (worst case)



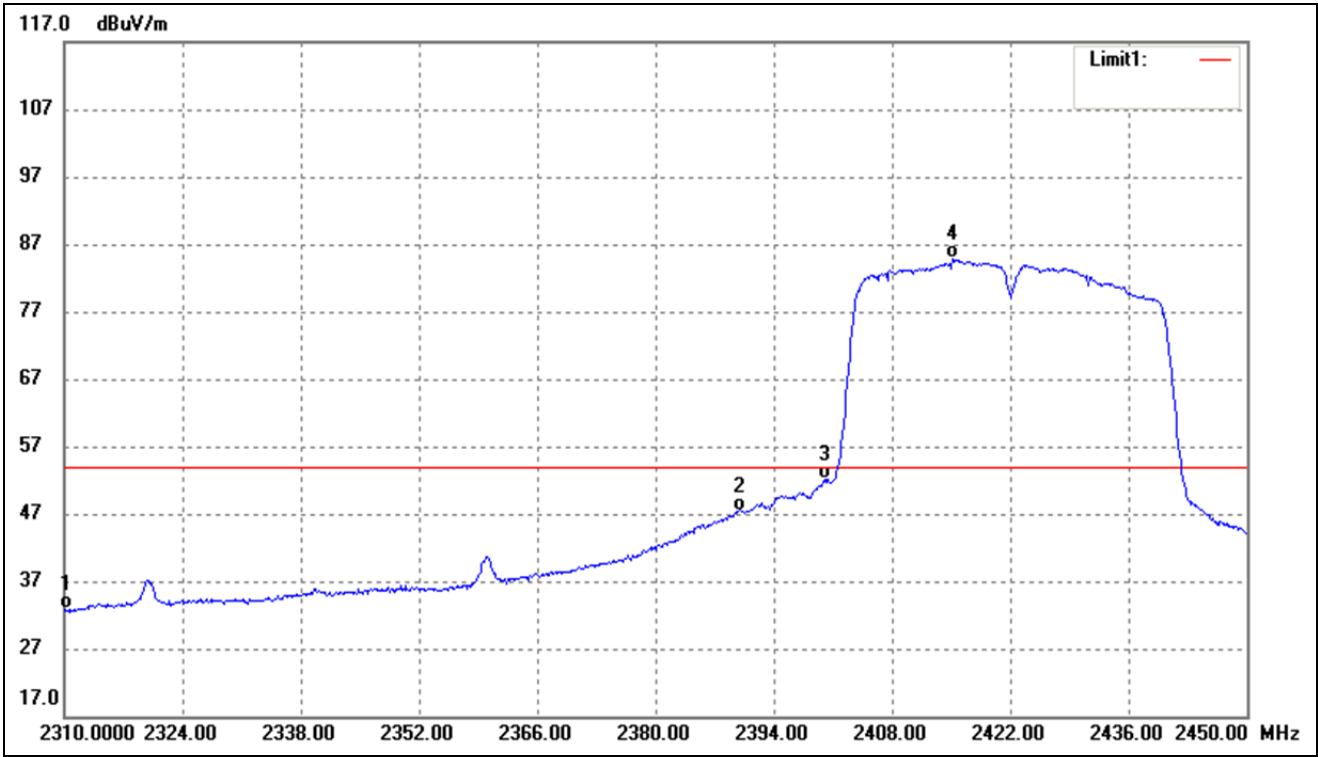
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.29	-9.66	32.63	54.00	-21.37	Average Detector
	2310.000	53.09	-9.66	43.43	74.00	-30.57	Peak Detector
2	2390.000	49.66	-9.50	40.16	54.00	-13.84	Average Detector
	2390.000	64.23	-9.50	54.73	74.00	-19.27	Peak Detector
3	2400.000	59.40	-9.48	49.92	Delta=37.70dBc		Average Detector
4	2416.320	97.08	-9.46	87.62			Average Detector

802.11n-HT20_MCS7			
Test Channel	High	Polarity:	Horizontal (worst case)



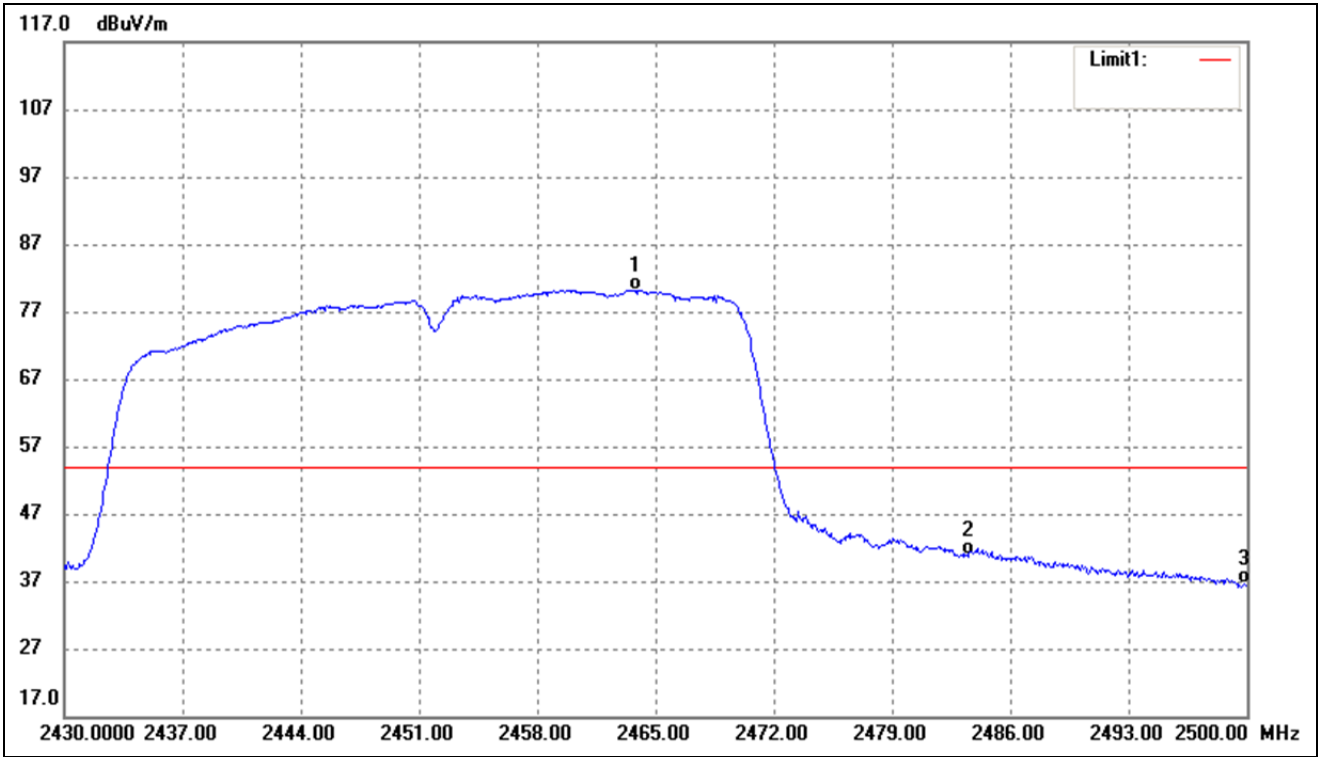
No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2464.700	94.45	-9.35	85.10	/	/	Average Detector
	2461.800	110.59	-9.36	101.23	/	/	Peak Detector
2	2483.500	47.40	-9.31	38.09	54.00	-15.91	Average Detector
	2483.500	68.48	-9.31	59.17	74.00	-14.83	Peak Detector
3	2500.000	45.12	-9.28	35.84	54.00	-18.16	Average Detector
	2500.000	57.51	-9.28	48.23	74.00	-25.77	Peak Detector

802.11n-HT40_MCS7			
Test Channel	Low	Polarity:	Horizontal (worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	42.61	-9.66	32.95	54.00	-21.05	Average Detector
	2310.000	54.18	-9.66	44.52	74.00	-29.48	Peak Detector
2	2390.000	56.84	-9.50	47.34	54.00	-6.66	Average Detector
	2390.000	69.53	-9.50	60.03	74.00	-13.97	Peak Detector
3	2400.000	61.49	-9.48	52.01	Delta=32.77dBc		Average Detector
4	2415.140	94.24	-9.46	84.78			Average Detector

802.11n-HT40_MCS7			
Test Channel	High	Polarity:	Horizontal (worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2463.810	89.56	-9.35	80.21	/	/	Average Detector
	2459.540	104.46	-9.36	95.10	/	/	Peak Detector
2	2483.500	50.20	-9.31	40.89	54.00	-13.11	Average Detector
	2483.500	66.47	-9.31	57.16	74.00	-16.84	Peak Detector
3	2500.000	45.81	-9.28	36.53	54.00	-17.47	Average Detector
	2500.000	57.59	-9.28	48.31	74.00	-25.69	Peak Detector

➤ Conducted test

Please refer to Appendix D

9. Conducted Emissions

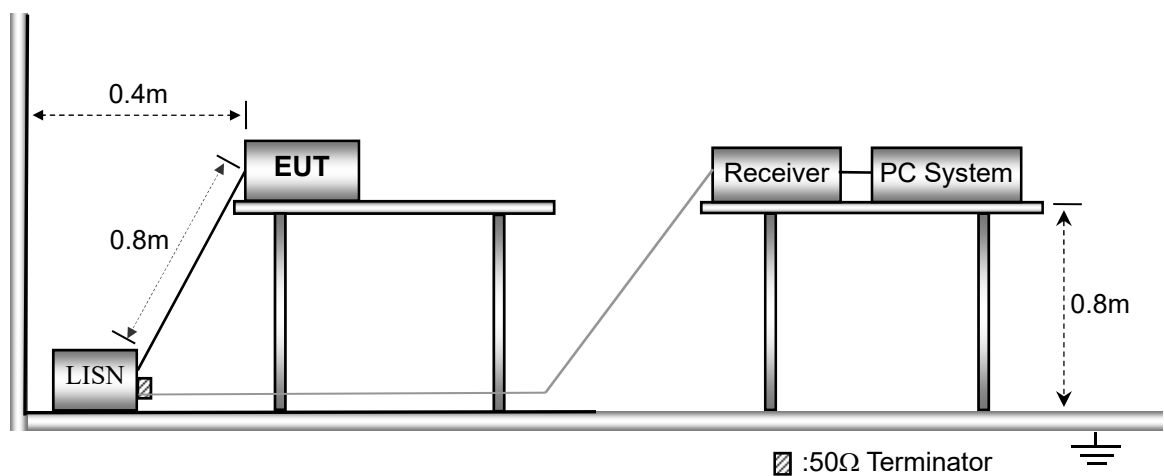
9.1 Test Procedure

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 Limit.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

The spacing between the peripherals was 10cm.

9.2 Basic Test Setup Block Diagram



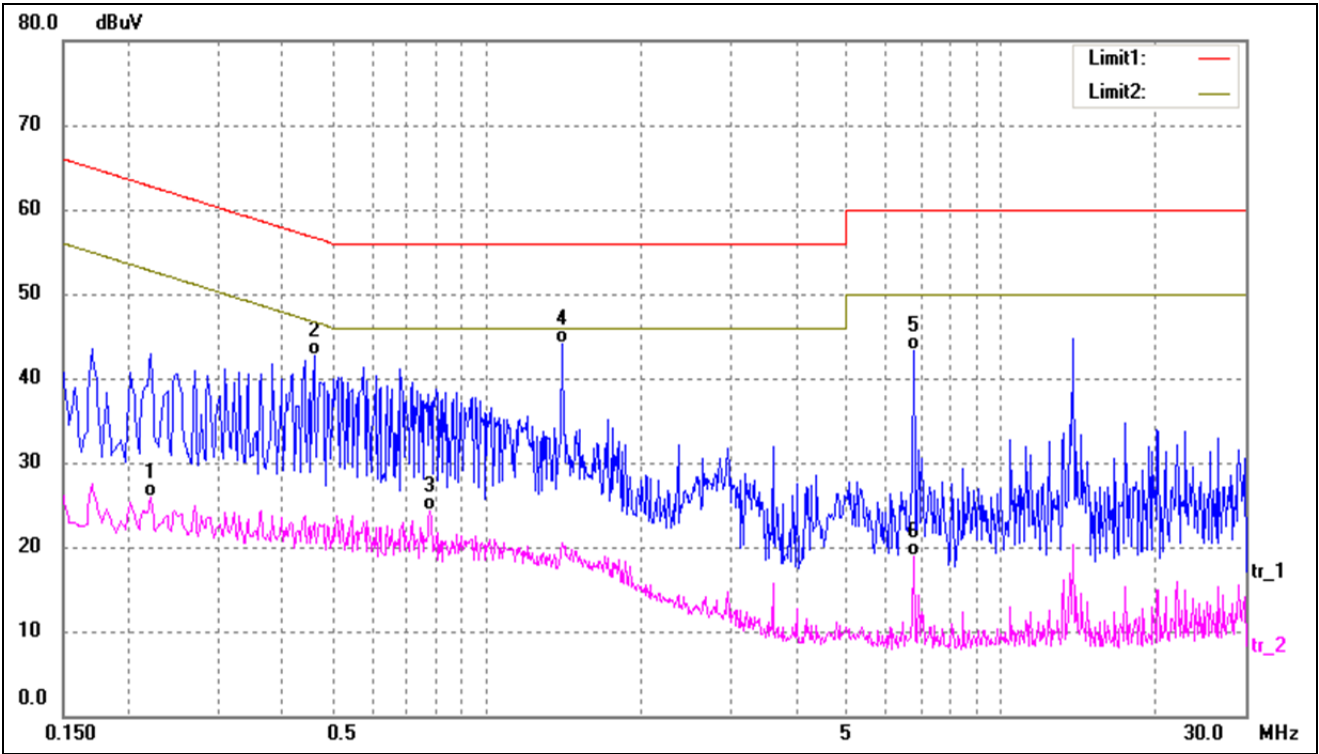
9.3 Test Receiver Setup

During the conducted emission test, the test receiver was set with the following configurations:

Start Frequency	150kHz
Stop Frequency	30MHz
Sweep Speed	Auto
IF Bandwidth.....	10kHz
Quasi-Peak Adapter Bandwidth	9kHz
Quasi-Peak Adapter Mode	Normal

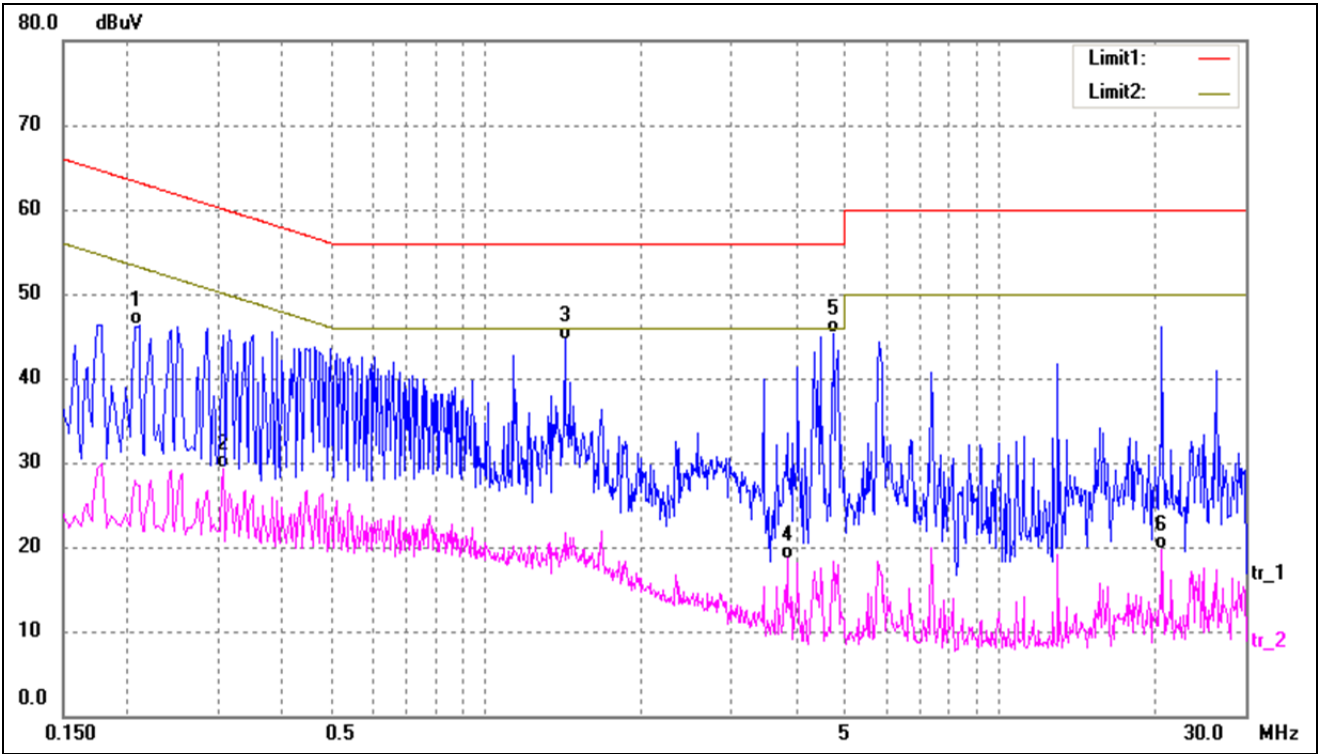
9.4 Summary of Test Results/Plots

Test Mode	Communication	AC120V 60Hz	Polarity:	Neutral
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2220	15.60	10.26	25.86	52.74	-26.88	AVG
2	0.4620	32.44	10.22	42.66	56.66	-14.00	QP
3	0.7780	14.10	10.18	24.28	46.00	-21.72	AVG
4*	1.4060	33.90	10.22	44.12	56.00	-11.88	QP
5	6.7980	33.10	10.25	43.35	60.00	-16.65	QP
6	6.7980	8.56	10.25	18.81	50.00	-31.19	AVG

Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.2100	35.96	10.27	46.23	63.21	-16.98	QP
2	0.3060	18.97	10.24	29.21	50.08	-20.87	AVG
3	1.4220	34.38	10.22	44.60	56.00	-11.40	QP
4	3.8500	8.35	10.25	18.60	46.00	-27.40	AVG
5*	4.7220	35.16	10.22	45.38	56.00	-10.62	QP
6	20.6820	9.11	10.59	19.70	50.00	-30.30	AVG

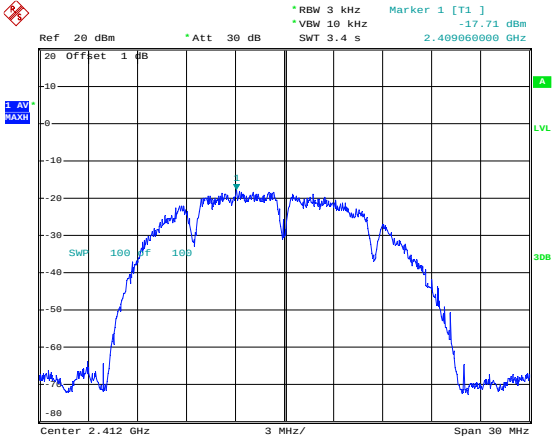
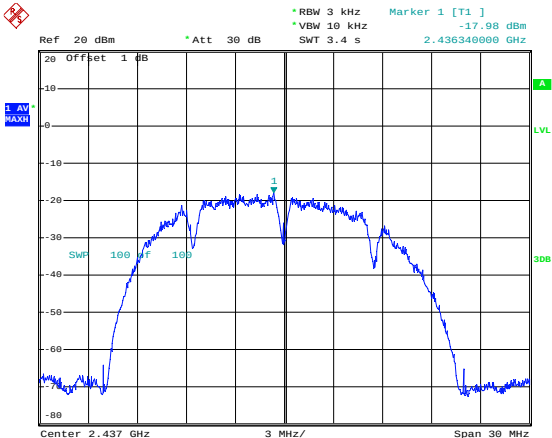
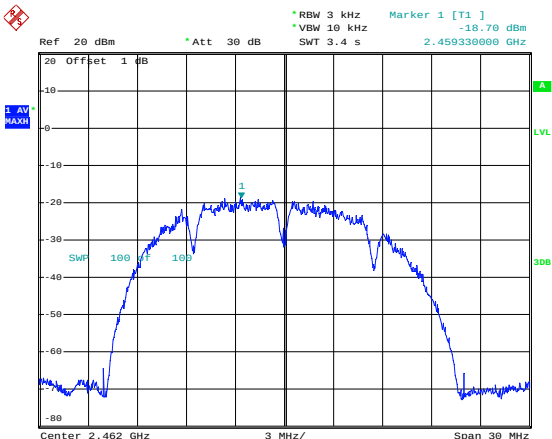
APPENDIX SUMMARY

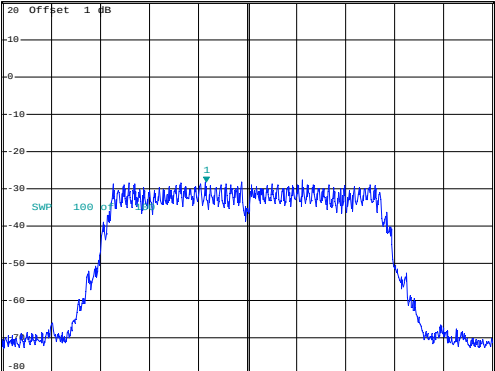
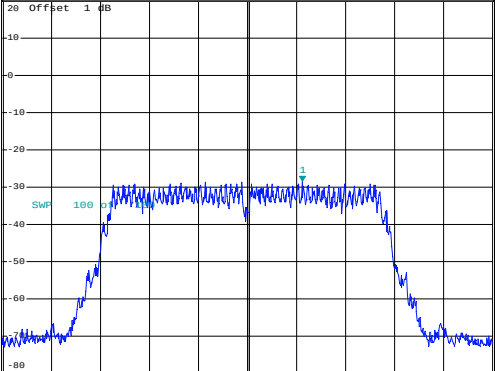
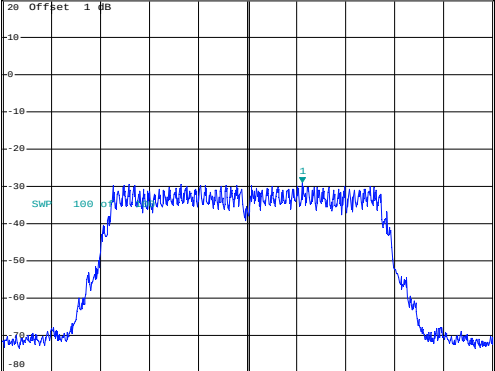
Project No.	WTX21X07067513W	Test Engineer	Gala
Start date	2021/7/19	Finish date	2021/7/19
Temperature	24℃	Humidity	45%
RF specifications	WIFI-2.4G		

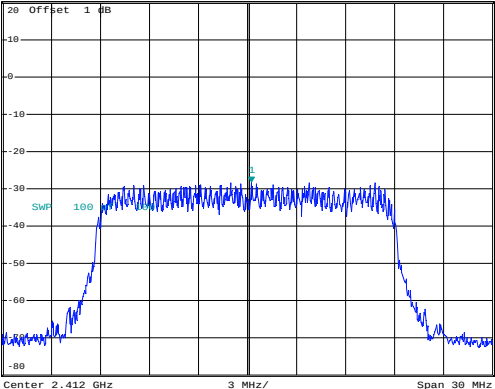
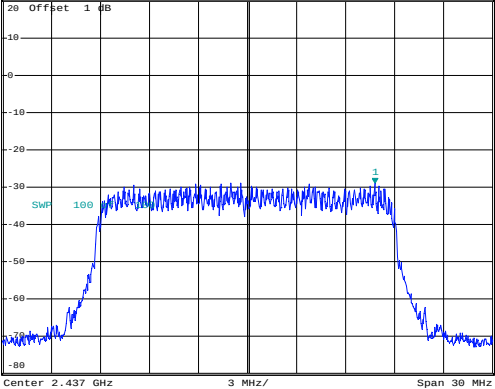
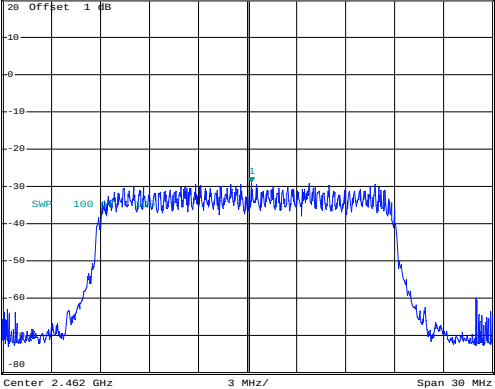
APPENDIX	Description of Test Item	Result
A	Power Spectral Density	Compliant
B	DTS Bandwidth	Compliant
C	RF Output Power	Compliant
D	Conducted Out of Band Emissions	Compliant

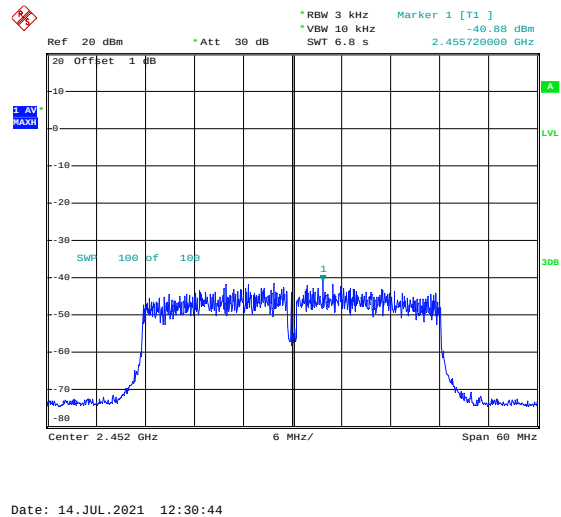
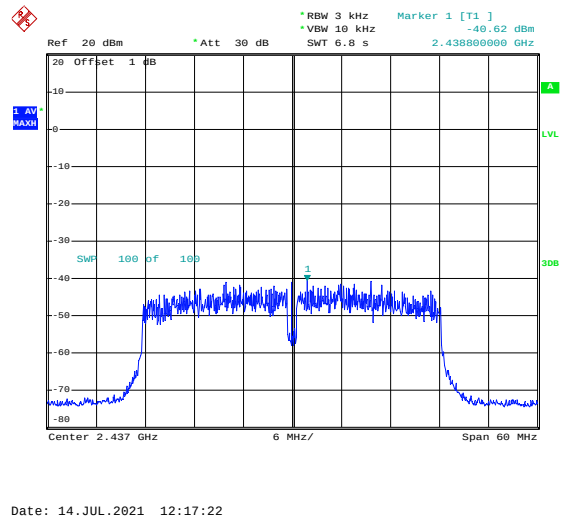
APPENDIX A

Power Spectral Density			
Test Mode	Test Channel MHz	Power Spectral Density dBm/3kHz	Limit dBm/3kHz
802.11b_11Mbps	2412	-17.71	8
	2437	-17.98	8
	2462	-18.70	8
802.11g_54Mbps	2412	-28.23	8
	2437	-28.35	8
	2462	-28.96	8
802.11n-HT20_MCS7	2412	-28.04	8
	2437	-28.88	8
	2462	-28.93	8
802.11n-HT40_MCS7	2422	-39.98	8
	2437	-40.62	8
	2452	-40.88	8

802.11b-Low	 Ref 20 dBm *Att 30 dB RBW 3 kHz VBW 10 kHz Marker 1 [T1] -17.71 dBm SWT 3.4 s 2.40900000 GHz 20 Offset 1 dB 1 AV MAX SWR 100 100 Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 10:35:19
802.11b-Middle	 Ref 20 dBm *Att 30 dB RBW 3 kHz VBW 10 kHz Marker 1 [T1] -17.98 dBm SWT 3.4 s 2.43634000 GHz 20 Offset 1 dB 1 AV MAX SWR 100 100 Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 10:46:28
802.11b-High	 Ref 20 dBm *Att 30 dB RBW 3 kHz VBW 10 kHz Marker 1 [T1] -18.70 dBm SWT 3.4 s 2.45933000 GHz 20 Offset 1 dB 1 AV MAX SWR 100 100 Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 10:52:41

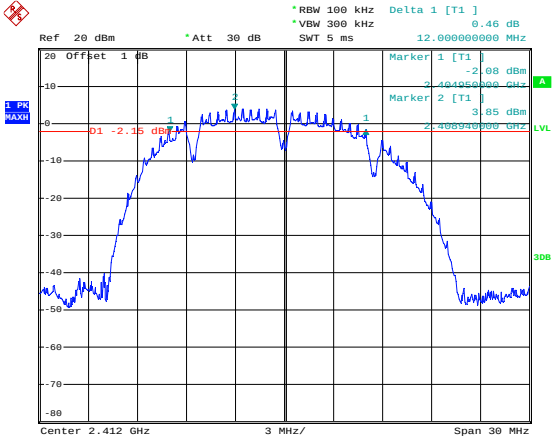
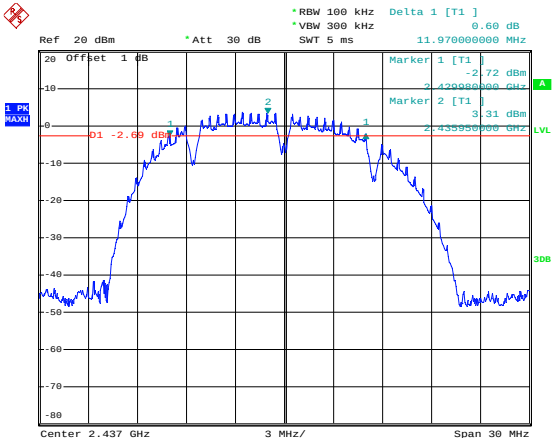
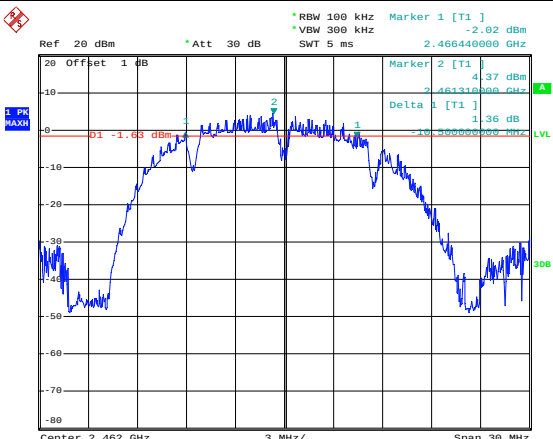
802.11g-Low	 Ref 20 dBm *Att 30 dB *RBW 3 kHz *VBW 10 kHz Marker 1 [T1] -28.23 dBm 2.409450000 GHz SWT 3.4 s 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 10:59:05
802.11g-Middle	 Ref 20 dBm *Att 30 dB *RBW 3 kHz *VBW 10 kHz Marker 1 [T1] -28.35 dBm 2.440360000 GHz SWT 3.4 s 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 11:20:18
802.11g-High	 Ref 20 dBm *Att 30 dB *RBW 3 kHz *VBW 10 kHz Marker 1 [T1] -28.96 dBm 2.465360000 GHz SWT 3.4 s 20 Offset 1 dB 10 0 -10 -20 -30 -40 -50 -60 -70 -80 Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 14.JUL.2021 11:13:29

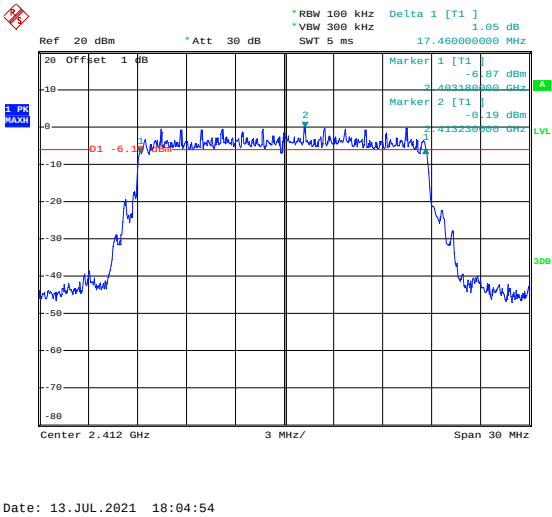
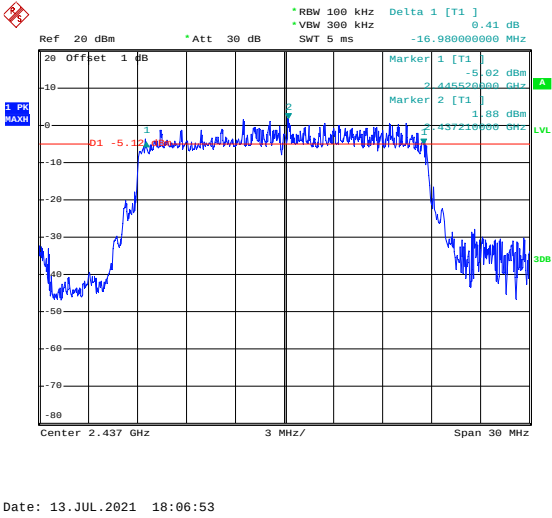
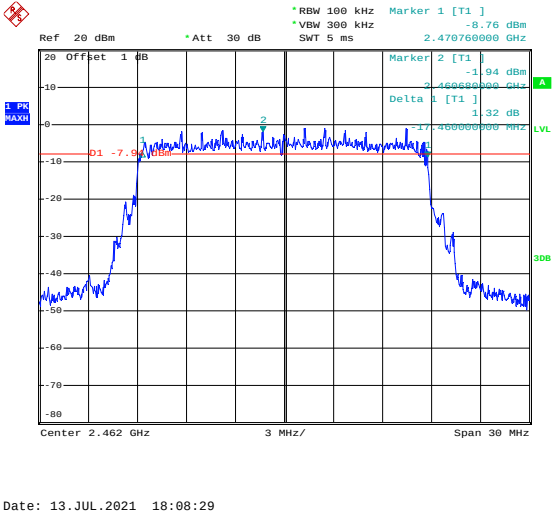
802.11n-HT20-Low	 Date: 14.JUL.2021 11:28:37
802.11n-HT20-Middle	 Date: 14.JUL.2021 11:36:09
802.11n-HT20-High	 Date: 14.JUL.2021 11:52:13

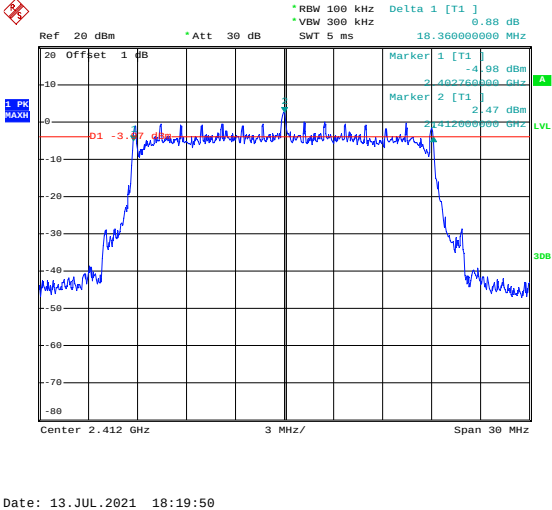
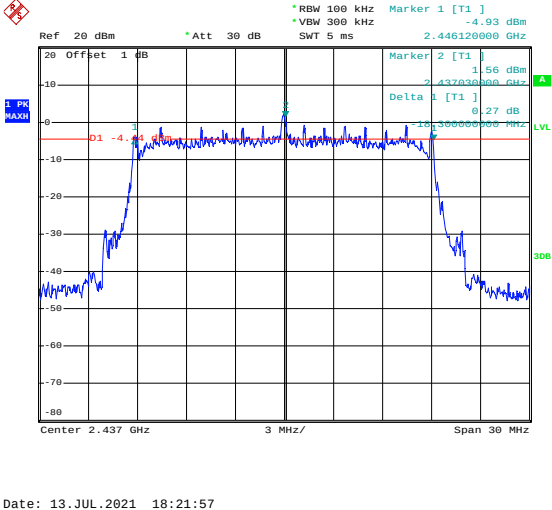
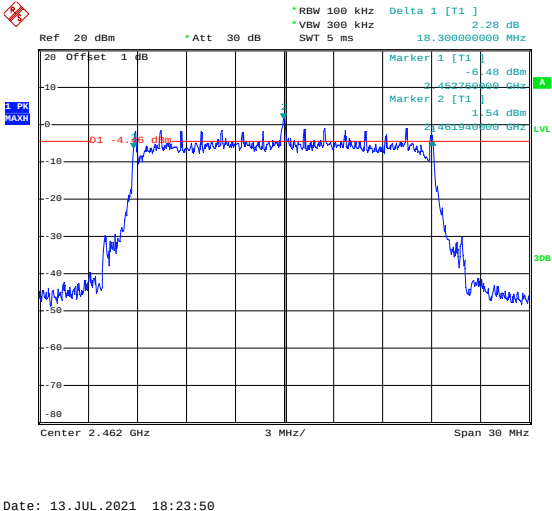


APPENDIX B

DTS Bandwidth			
Test Mode	Test Channel MHz	6 dB Bandwidth MHz	Limit kHz
802.11b_11Mbps	2412	12.00	≥500
	2437	11.97	≥500
	2462	10.50	≥500
802.11g_54Mbps	2412	17.46	≥500
	2437	16.98	≥500
	2462	17.46	≥500
802.11n-HT20_MCS7	2412	18.36	≥500
	2437	18.30	≥500
	2462	18.30	≥500
802.11n-HT40_MCS7	2422	35.20	≥500
	2437	35.56	≥500
	2452	35.32	≥500

802.11b-Low	 Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 0.46 dB VBW 300 kHz 12.00000000 MHz SWT 5 ms Marker 1 [T1] -2.08 dBm Marker 2 [T1] -3.85 dBm Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 17:57:31
802.11b-Middle	 Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 0.60 dB VBW 300 kHz 11.97000000 MHz SWT 5 ms Marker 1 [T1] -2.72 dBm Marker 2 [T1] -3.31 dBm Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 17:59:53
802.11b-High	 Ref 20 dBm *Att 30 dB RBW 100 kHz Marker 1 [T1] -2.02 dBm VBW 300 kHz 2.46644000 GHz SWT 5 ms Marker 2 [T1] 4.37 dBm Delta 1 [T1] 1.36 dB Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 18:01:32

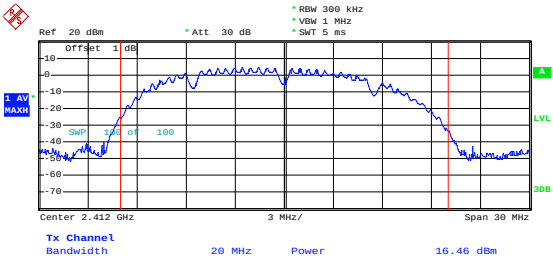
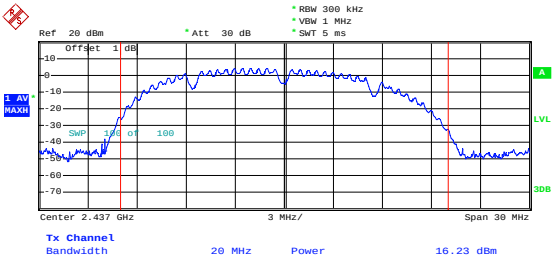
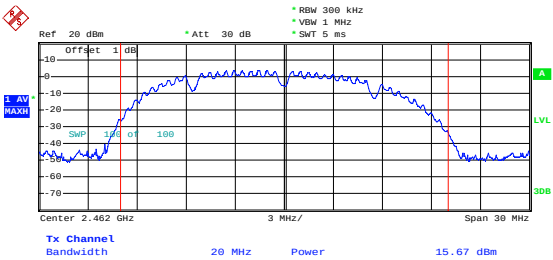
802.11g-Low	 Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 1.05 dB VBW 300 kHz SWT 5 ms 17.46000000 MHz Marker 1 [T1] -6.87 dBm Marker 2 [T1] -6.19 dBm Center 2.412 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 18:04:54
802.11g-Middle	 Ref 20 dBm *Att 30 dB RBW 100 kHz Delta 1 [T1] 0.41 dB VBW 300 kHz SWT 5 ms -16.98000000 MHz Marker 1 [T1] -5.02 dBm Marker 2 [T1] -1.88 dBm Center 2.437 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 18:06:53
802.11g-High	 Ref 20 dBm *Att 30 dB RBW 100 kHz Marker 1 [T1] -8.76 dBm VBW 300 kHz SWT 5 ms 2.47076000 MHz Marker 2 [T1] -1.94 dBm Delta 1 [T1] 1.32 dB Center 2.462 GHz 3 MHz/ Span 30 MHz Date: 13.JUL.2021 18:08:29

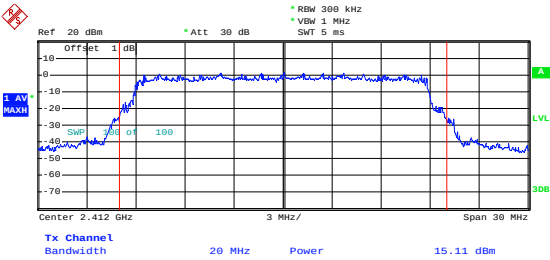
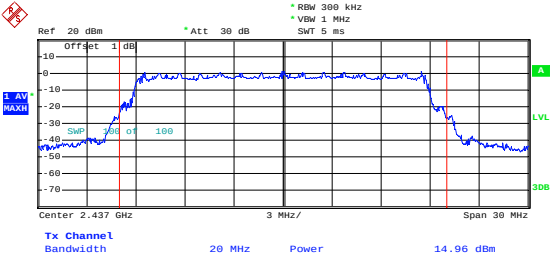
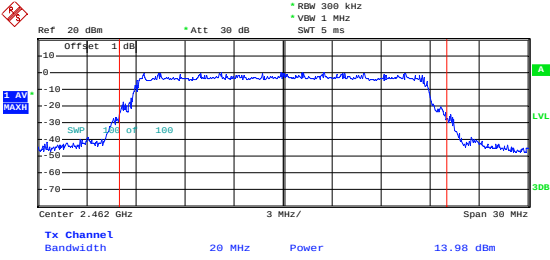
802.11n-HT20-Low	 Date: 13.JUL.2021 18:19:50
802.11n-HT20-Middle	 Date: 13.JUL.2021 18:21:57
802.11n-HT20-High	 Date: 13.JUL.2021 18:23:50

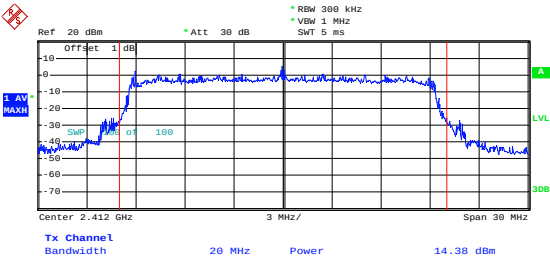
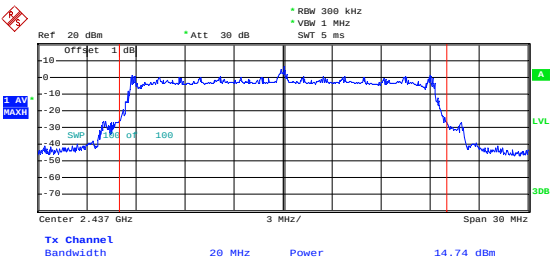
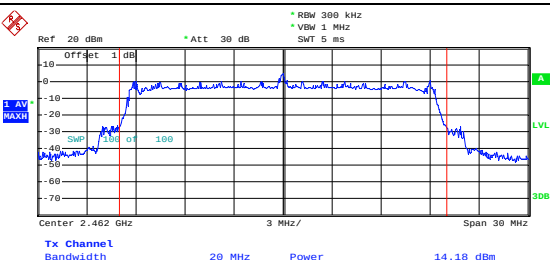
802.11n-HT40-Low	Date: 13.JUL.2021 18:26:25
802.11n-HT40-Middle	Date: 13.JUL.2021 18:28:13
802.11n-HT40-High	Date: 13.JUL.2021 18:30:19

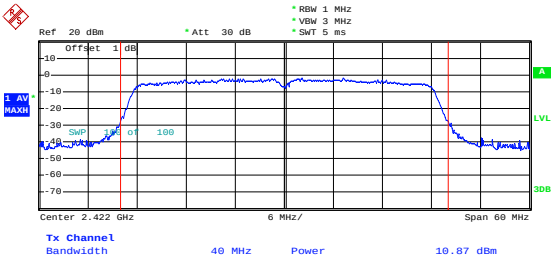
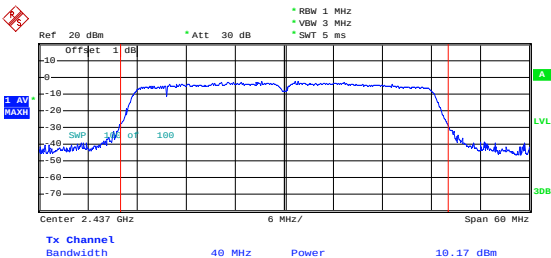
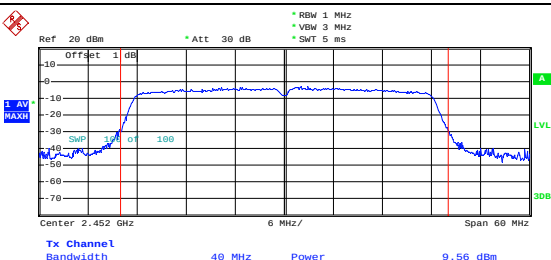
APPENDIX C

Test Mode	Frequency MHz	Reading dBm	Limit dBm
802.11b _ 11Mbps	2412	16.46	30.00
	2437	16.23	30.00
	2462	15.67	30.00
802.11g_54Mbps	2412	15.11	30.00
	2437	14.96	30.00
	2462	13.98	30.00
802.11n HT20_MCS7	2412	14.38	30.00
	2437	14.74	30.00
	2462	14.18	30.00
802.11n HT40_MCS7	2422	10.87	30.00
	2437	10.17	30.00
	2452	9.56	30.00

802.11b-Low	 Date: 19.JUL.2021 11:12:28
802.11b-Middle	 Date: 19.JUL.2021 11:11:50
802.11b-High	 Date: 19.JUL.2021 11:13:16

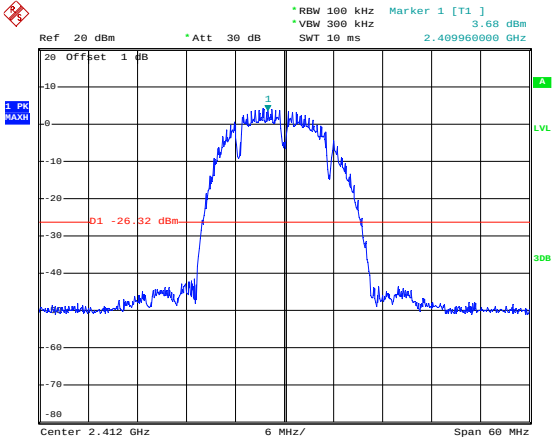
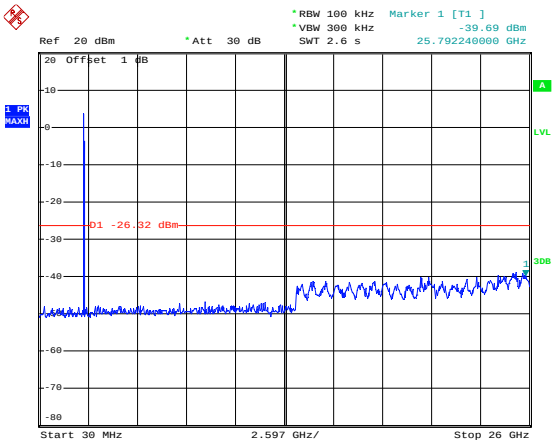
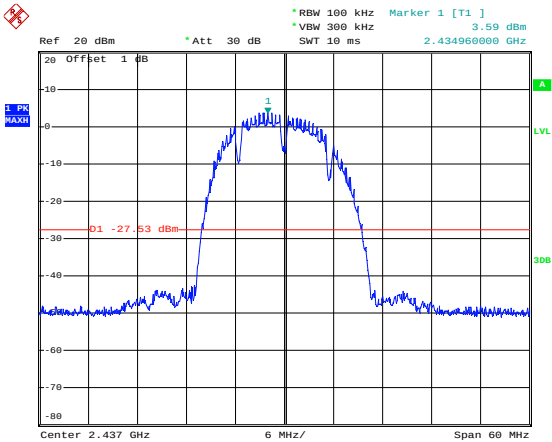
802.11g-Low	 Ref 20 dBm * RBW 300 kHz * Att 30 dB * VBW 1 MHz SWT 5 ms Offset 1 dB 1 AV MAXH SWP 300 0 100 Center 2.412 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 15.11 dBm Date: 14.JUL.2021 10:12:11
802.11g-Middle	 Ref 20 dBm * RBW 300 kHz * Att 30 dB * VBW 1 MHz SWT 5 ms Offset 1 dB 1 AV MAXH SWP 300 0 100 Center 2.437 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 14.96 dBm Date: 14.JUL.2021 10:10:30
802.11g-High	 Ref 20 dBm * RBW 300 kHz * Att 30 dB * VBW 1 MHz SWT 5 ms Offset 1 dB 1 AV MAXH SWP 300 0 100 Center 2.462 GHz 3 MHz/ Span 30 MHz Tx Channel Bandwidth 20 MHz Power 13.98 dBm Date: 14.JUL.2021 10:13:37

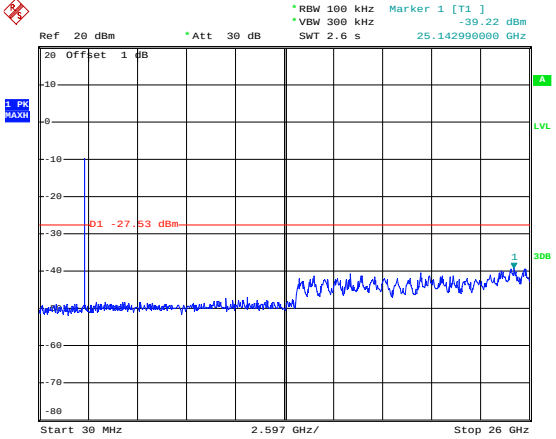
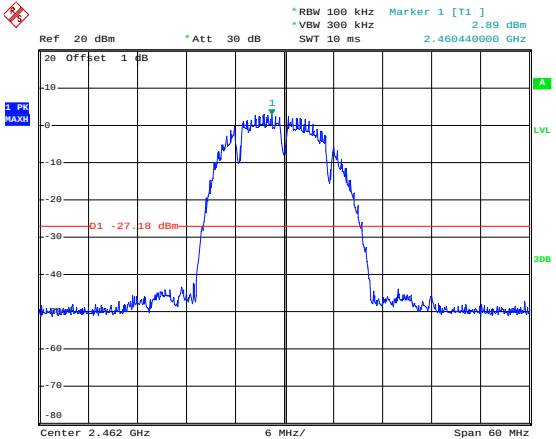
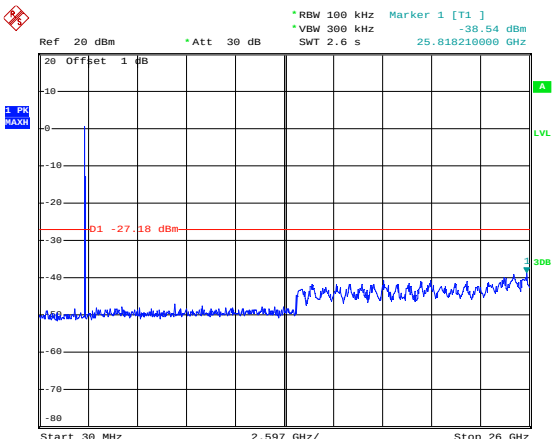
802.11n-HT20-Low	 Date: 14. JUL. 2021 10:14:26
802.11n-HT20-Middle	 Date: 14. JUL. 2021 10:15:40
802.11n-HT20-High	 Date: 14. JUL. 2021 10:16:48

802.11n-HT40-Low	 Date: 19.JUL.2021 11:20:59
802.11n-HT40-Middle	 Date: 19.JUL.2021 11:21:29
802.11n-HT40-High	 Date: 19.JUL.2021 11:21:58

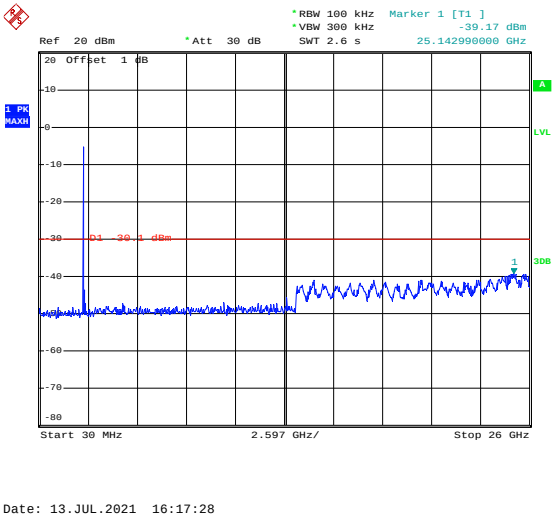
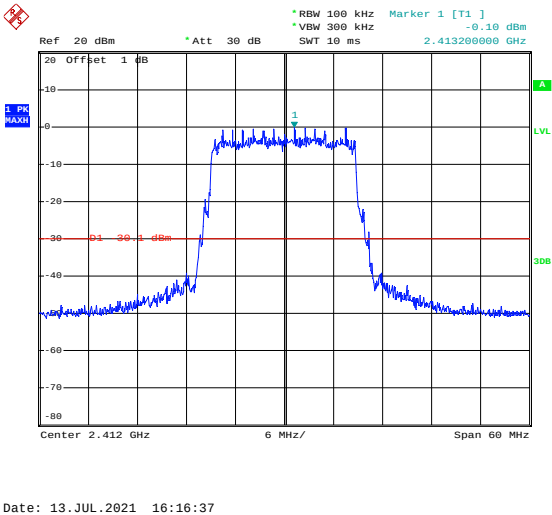
APPENDIX D

Conducted Out of Band Emissions

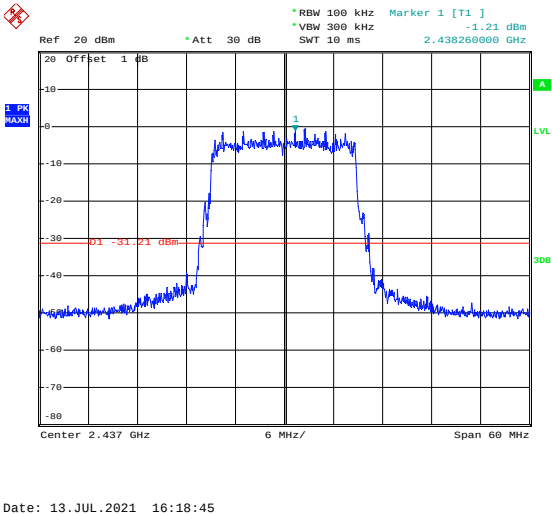
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	 Date: 13.JUL.2021 16:05:17
802.11b-Middle	 Date: 13.JUL.2021 16:07:30

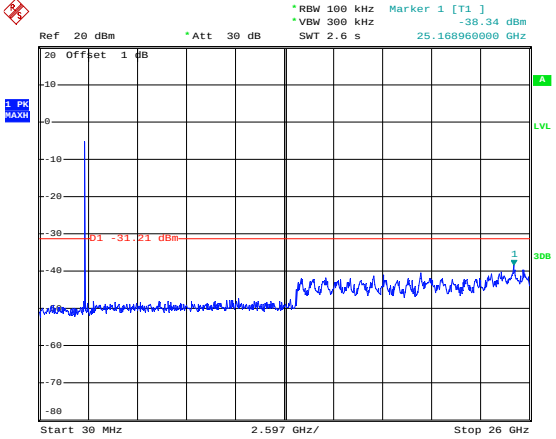
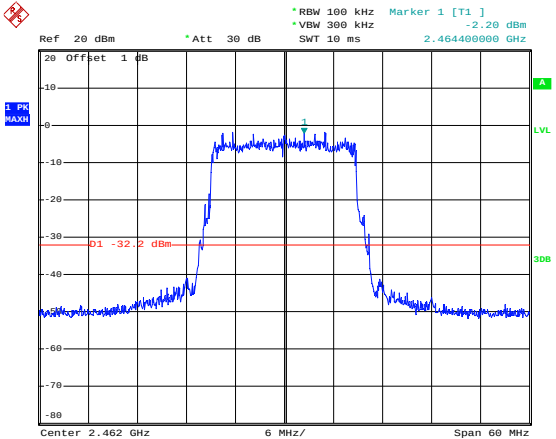
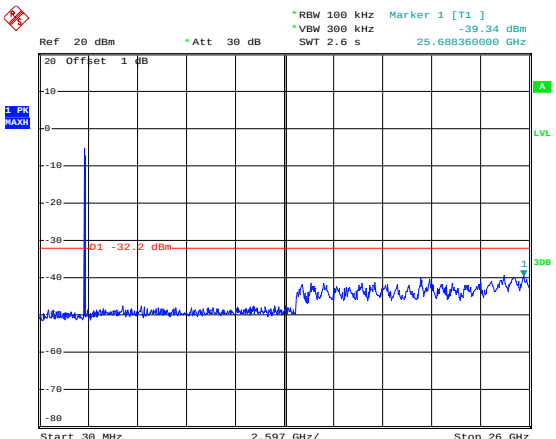
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802.11b-High	 Date: 13.JUL.2021 16:12:47
	 Date: 13.JUL.2021 16:13:23

802.11g-Low

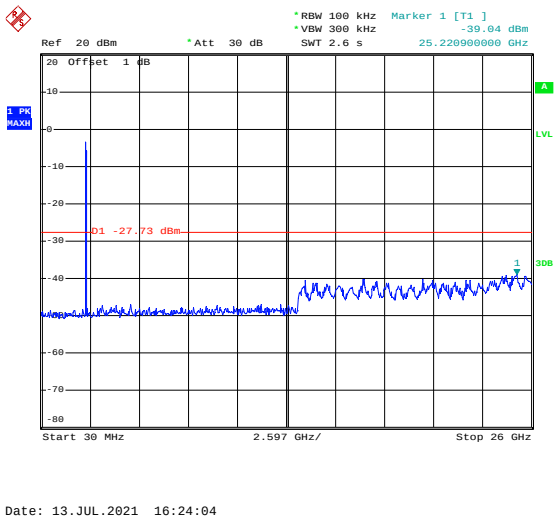
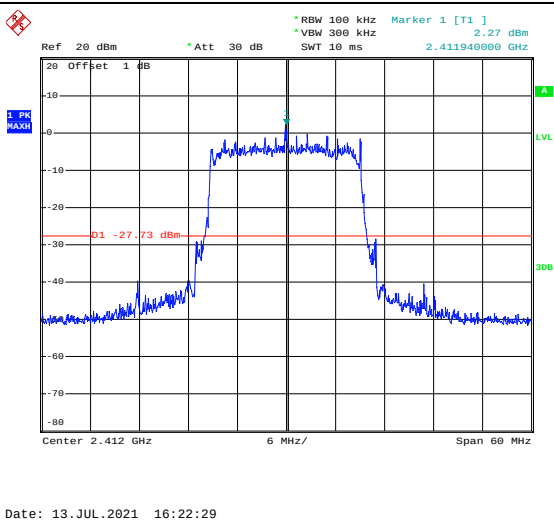


802.11g-Middle

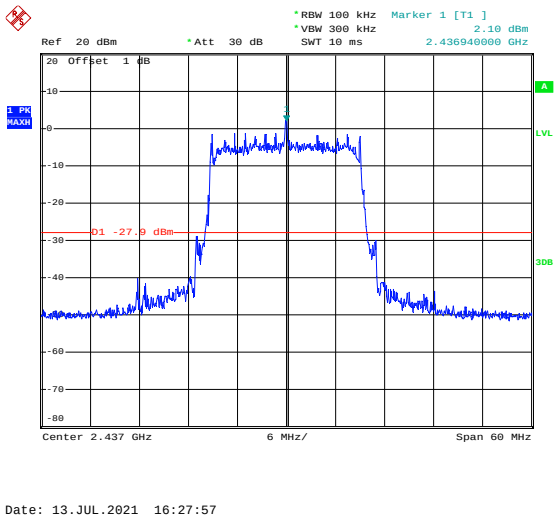


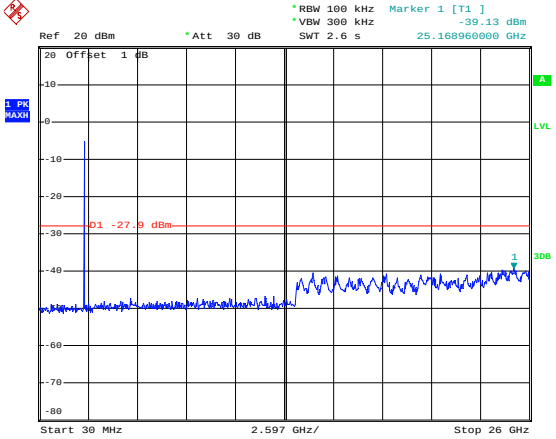
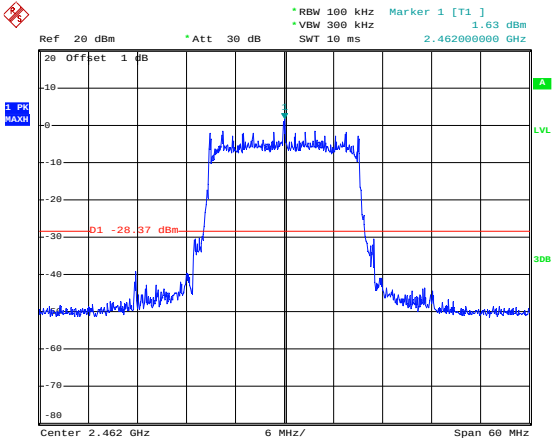
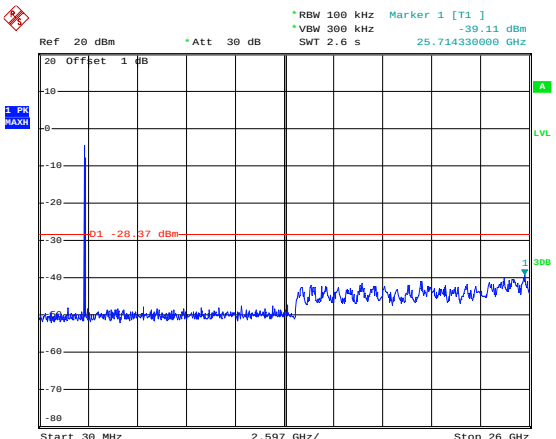
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	 Date: 13.JUL.2021 16:21:06

802.11n-HT20-Low

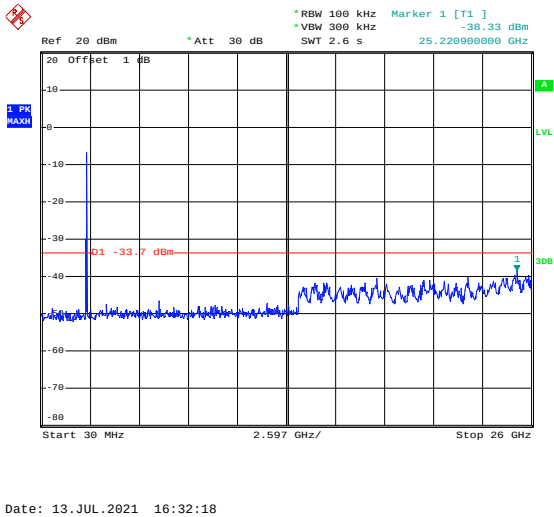
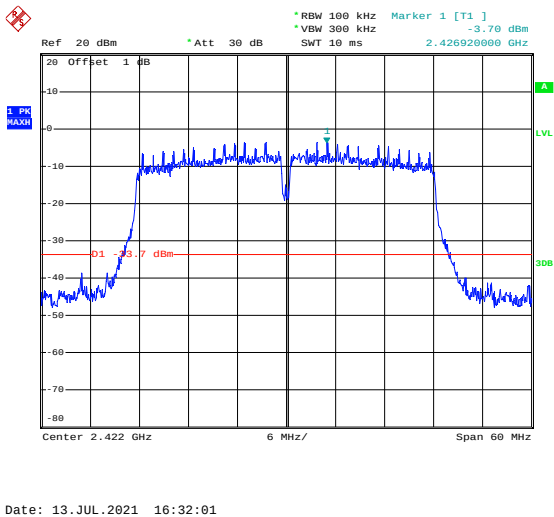


802.11n-HT20-Middle

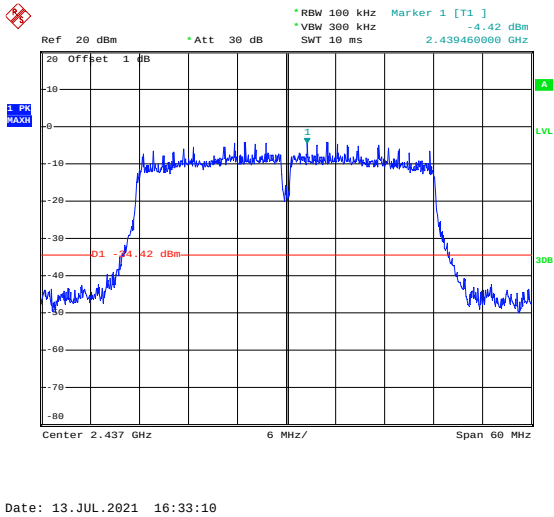


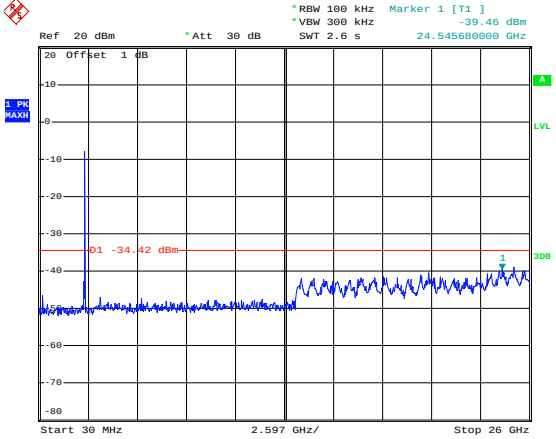
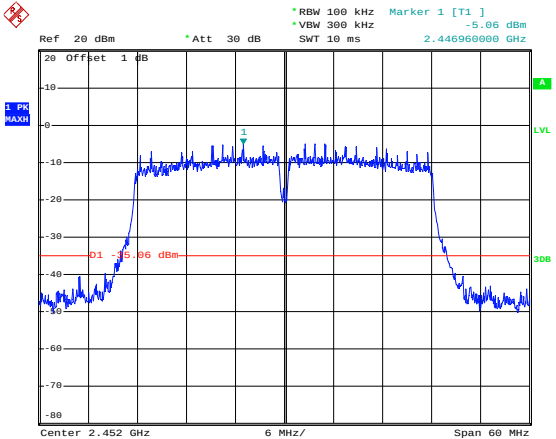
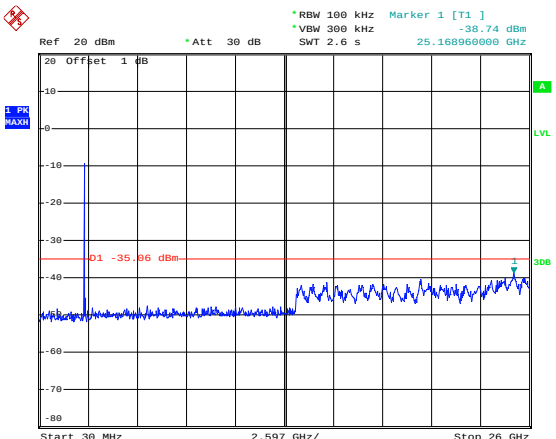
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802.11n-HT20-High	 Date: 13.JUL.2021 16:29:52
	 Date: 13.JUL.2021 16:30:12

802.11n-HT40-Low



802.11n-HT40-Middle



	 Date: 13.JUL.2021 16:33:34
802.11n-HT40-High	 Date: 13.JUL.2021 16:34:47
	 Date: 13.JUL.2021 16:35:09

APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

******* END OF REPORT *******