



TEST REPORT

Reference No...... : WTX22X0803456W-1
FCC ID..... : 2A86V-DRVF
Applicant : Ganzhou Liancan Technology Co., Ltd.
Address : No. 378, Sanbaishan Avenue, Sanbaishan Town, Anyuan County, Ganzhou City, Jiangxi Province
Product Name : Car audio wired to wireless box
Test Model : DRVF1.0
Standards : FCC Part 15.247
Date of Receipt sample : September 24, 2022
Date of Test : September 24, 2022 to October 8, 2022
Date of Issue : October 8, 2022
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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**Report version**

Version No.	Date of issue	Description
Rev.00	October 8, 2022	Original
/	/	/

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1. GENERAL INFORMATION

1.1 Product Description for Equipment Under Test (EUT)

Client Information

Applicant:

Ganzhou Liancan Technology Co., Ltd.

Address of applicant:

No. 378, Sanbaishan Avenue, Sanbaishan Town, Anyuan County,
Ganzhou City, Jiangxi Province

Manufacturer:

Ganzhou Liancan Technology Co., Ltd.

Address of manufacturer:

No. 378, Sanbaishan Avenue, Sanbaishan Town, Anyuan County,
Ganzhou City, Jiangxi Province

General Description of EUT

Product Name:	Car audio wired to wireless box
Trade Name:	/
Model No.:	DRVF1.0
Adding Model(s):	DRVF2.0, DRVF3.0, DRVF4.0, DRVF5.0, DRVF6.0
Rated Voltage:	Input: DC 5V
Power Adapter Model:	/
Serial number:	D88H09

Note: The test data is gathered from a production sample provided by the manufacturer.

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:	21.43dBm (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:	Integral Antenna
Antenna Gain:	2.2dBi



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.

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.

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.



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 software(Fix the Tx frequency)	Power level(Testing)
Name	level
SecureCRT	Index

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 $\pm 3.34\text{dB}$
		30-200MHz $\pm 4.52\text{dB}$
		0.2-1GHz $\pm 5.56\text{dB}$
		1-6GHz $\pm 3.84\text{dB}$
Transmitter Spurious Emissions	Radiated	6-26GHz $\pm 3.92\text{dB}$

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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	2022-03-27	2023-03-26
SEMT-1063	GSM Tester	Rohde & Schwarz	CMU200	114403	2022-03-27	2023-03-26
SEMT-1072	Spectrum Analyzer	Agilent	E4407B	MY41440400	2022-03-27	2023-03-26
SEMT-1079	Spectrum Analyzer	Agilent	N9020A	US47140102	2022-03-27	2023-03-26
SEMT-1080	Signal Generator	Agilent	83752A	3610A01453	2022-03-27	2023-03-26
SEMT-1081	Vector Signal Generator	Agilent	N5182A	MY47070202	2022-03-27	2023-03-26
SEMT-1028	Power Divider	Weinschel	1506A	PM204	2022-03-27	2023-03-26
SEMT-1082	Power Divider	RF-Lambda	RFLT4W5M18G	14110400027	2022-03-27	2023-03-26
SEMT-1031	Spectrum Analyzer	Rohde & Schwarz	FSP30	836079/035	2022-03-27	2023-03-26
SEMT-1007	EMI Test Receiver	Rohde & Schwarz	ESVB	825471/005	2022-03-27	2023-03-26
SEMT-1008	Amplifier	Agilent	8447F	3113A06717	2022-04-12	2023-04-11
SEMT-1043	Amplifier	C&D	PAP-1G18	2002	2022-04-12	2023-04-11
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	2022-04-27	2023-04-26
SEMT-1163	Spectrum Analyzer	Rohde & Schwarz	FSP40	100612	2022-03-27	2023-03-26
SEMT-1166	Power Limiter	Agilent	N9356B	MY45450376	2022-03-27	2023-03-26
SEMT-1076	RF Switcher	Top Precision	RCS03-A2	/	2021-03-19	2023-03-18
SEMT-1096	Power Sensor	Agilent	U2021XA	MY54250019	2022-03-27	2023-03-26
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.

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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.

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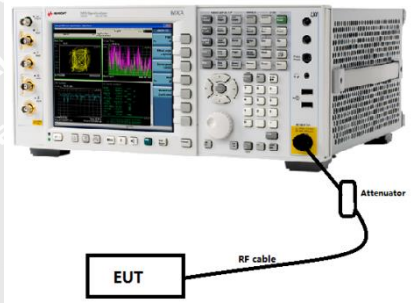


4. Power Spectral Density

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:

- Set instrument center frequency to DTS channel center frequency.
- Set span to at least 1.5 times the OBW.
- Set RBW to: $3\text{kHz} \leq \text{RBW} \leq 100\text{kHz}$.
- Set VBW $\geq 3 \times \text{RBW}$.
- Detector = power averaging (RMS) or sample detector (when RMS not available).
- Ensure that the number of measurement points in the sweep $\geq 2 \times \text{span/RBW}$.
- Sweep time = auto couple.
- Employ trace averaging (RMS) mode over a minimum of 100 traces.
- Use the peak marker function to determine the maximum amplitude level.
- 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

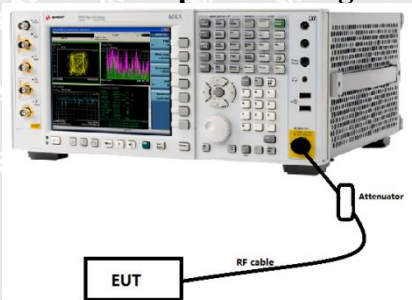


5. DTS Bandwidth

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) $\geq 3 \times \text{RBW}$.
- 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

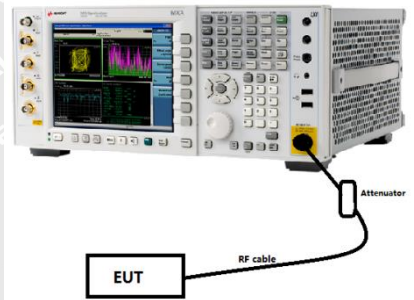


6. RF Output Power

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

- The EUT was tested according to ANSI C63.10: 2013 and KDB 558074 D01 for compliance to FCC 47 CFR 15.247 requirements.
- The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize
- a fast-responding diode detector
- Record the measurement data.

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.

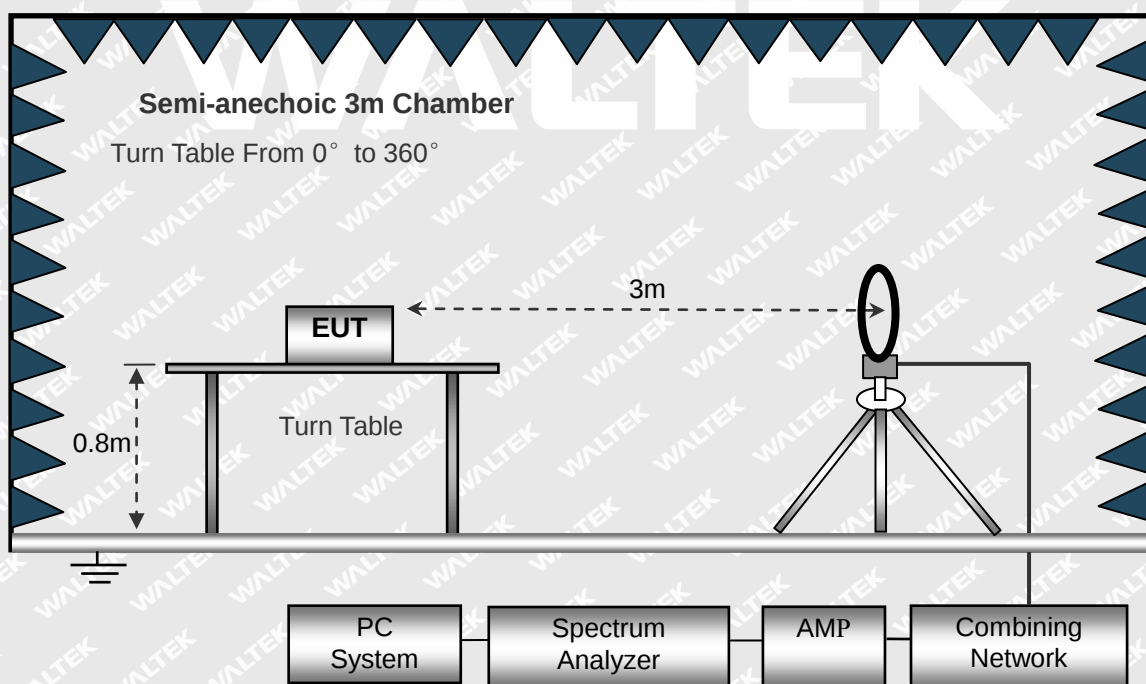
7.2 Test Procedure

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.

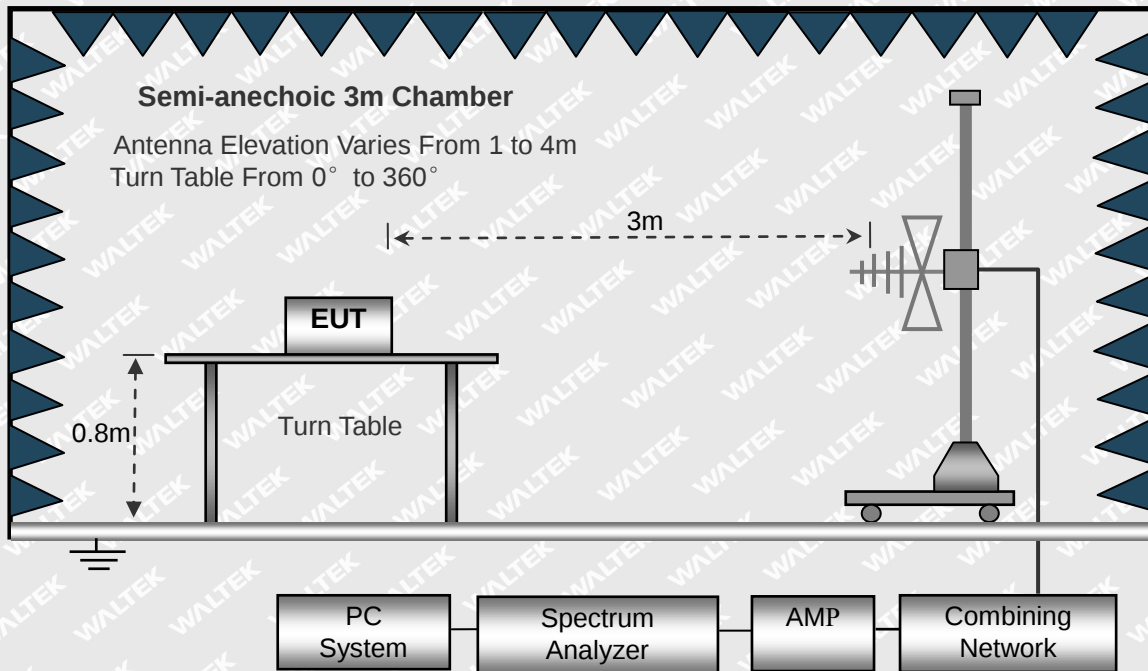
The spacing between the peripherals was 10cm.

The test setup for emission measurement below 30MHz.

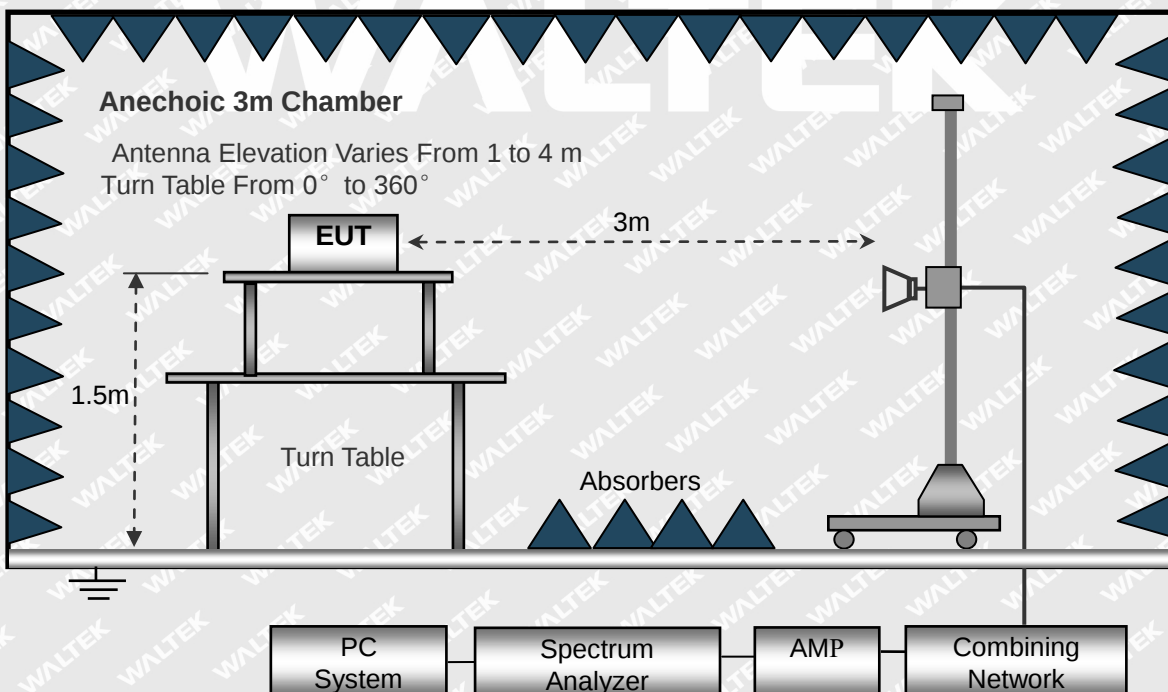




The test setup for emission measurement from 30MHz to 1GHz.



The test setup for emission measurement above 1GHz.





Frequency :9kHz-30MHz
RBW=10KHz,
VBW =30KHz
Sweep time= Auto
Trace = max hold
Detector function = peak

Frequency :30MHz-1GHz
RBW=120KHz,
VBW=300KHz
Sweep time= Auto
Trace = max hold
Detector function = peak, QP

Frequency :Above 1GHz
RBW=1MHz,
VBW=3MHz(Peak), 10Hz(AV)
Sweep time= Auto
Trace = max hold
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:

$$\begin{aligned}\text{Result} &= \text{Indicated Reading} + \text{Correct} \\ \text{Correct} &= \text{Ant. Factor} + \text{Cable Loss} - \text{Ampl. Gain}\end{aligned}$$

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:

$$\text{Margin} = \text{Result} - \text{FCC Part 15 Limit}$$

7.4 Summary of Test Results/Plots

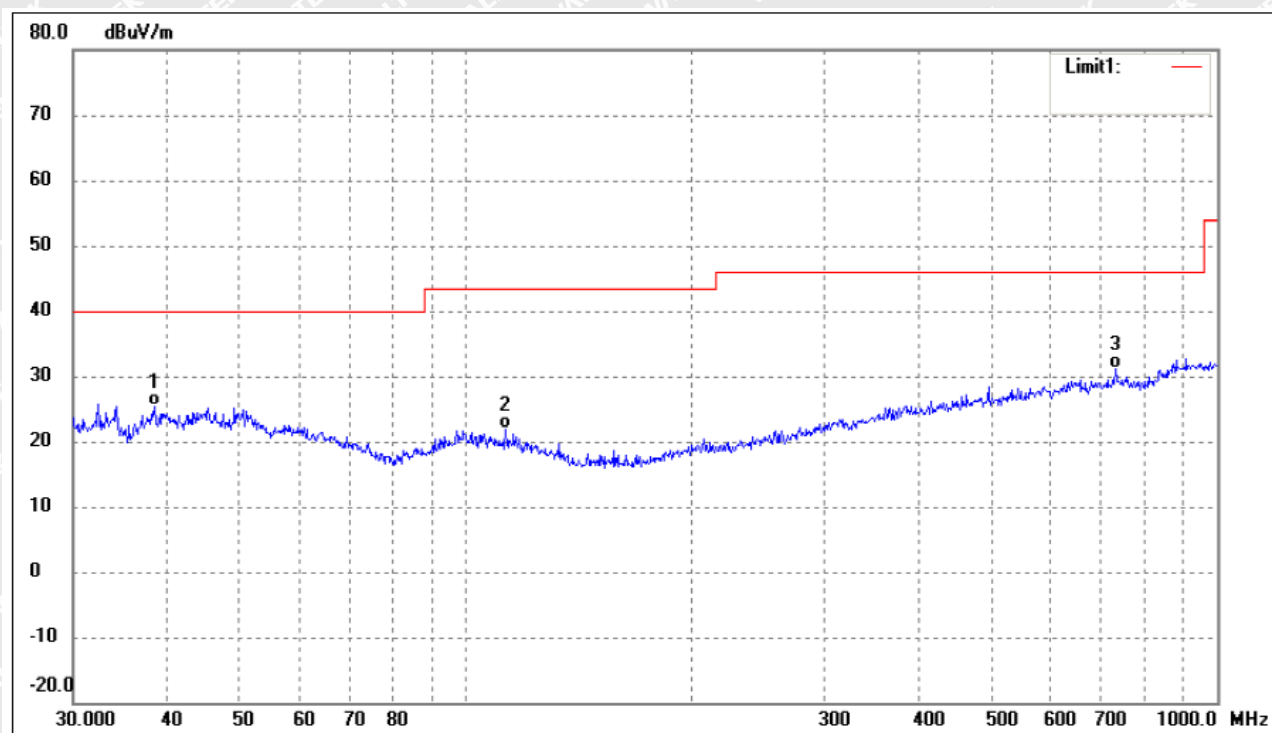
*Note: 1.This EUT was tested in 3 orthogonal positions and the worst case position data was reported.
2. All test modes (different data rate and different modulation) are performed, but only the worst case(802.11b Low channel-11Mbps) is recorded in this report.*

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Spurious Emissions Below 1GHz

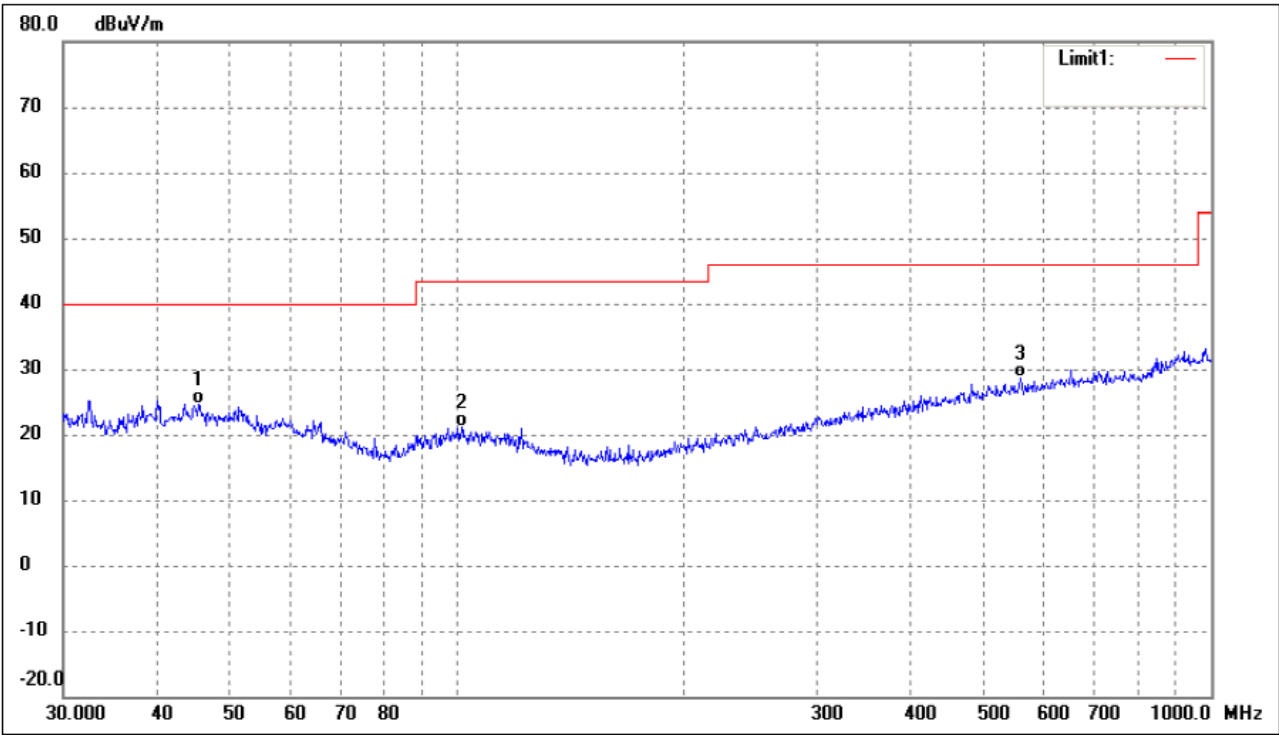
802.11b_11Mbps			
Test Channel	Low	Polarity:	Horizontal



No.	Frequency (MHz)	Reading (dBuV)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Degree ()	Height (cm)	Remark
1	38.4809	37.99	-12.56	25.43	40.00	-14.57	-	-	QP
2	112.9196	35.40	-13.60	21.80	43.50	-21.70	-	-	QP
3	731.9203	32.20	-1.07	31.13	46.00	-14.87	-	-	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	45.3755	36.51	-11.78	24.73	40.00	-15.27	-	-	QP
2	101.2885	34.50	-13.31	21.19	43.50	-22.31	-	-	QP
3	558.7302	31.95	-3.37	28.58	46.00	-17.42	-	-	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	58.99	-3.86	55.13	74	-18.87	H	PK
4824.000	43.72	-3.86	39.86	54	-14.14	H	AV
7236.000	55.13	1.1	56.23	74	-17.77	H	PK
7236.000	40.68	1.1	41.78	54	-12.22	H	AV
4824.000	61.82	-3.86	57.96	74	-16.04	V	PK
4824.000	41.72	-3.86	37.86	54	-16.14	V	AV
7236.000	52.77	1.1	53.87	74	-20.13	V	PK
7236.000	40.92	1.1	42.02	54	-11.98	V	AV
Middle Channel-2437MHz							
4874.000	58.63	-3.74	54.89	74	-19.11	H	PK
4874.000	41.75	-3.74	38.01	54	-15.99	H	AV
7311.000	52.8	1.47	54.27	74	-19.73	H	PK
7311.000	38.77	1.47	40.24	54	-13.76	H	AV
4874.000	58.72	-3.74	54.98	74	-19.02	V	PK
4874.000	41.92	-3.74	38.18	54	-15.82	V	AV
7311.000	55.91	1.47	57.38	74	-16.62	V	PK
7311.000	38.48	1.47	39.95	54	-14.05	V	AV
High Channel-2462MHz							
4924.000	59.66	-3.63	56.03	74	-17.97	H	PK
4924.000	42.56	-3.63	38.93	54	-15.07	H	AV
7386.000	54.15	1.62	55.77	74	-18.23	H	PK
7386.000	38.63	1.62	40.25	54	-13.75	H	AV
4924.000	58.03	-3.63	54.4	74	-19.60	V	PK
4924.000	42.6	-3.63	38.97	54	-15.03	V	AV
7386.000	53.33	1.62	54.95	74	-19.05	V	PK
7386.000	39.43	1.62	41.05	54	-12.95	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.

- Conducted test

Please refer to Appendix D

Waltek Testing Group (Shenzhen) Co., Ltd.

[Http://www.waltek.com.cn](http://www.waltek.com.cn)



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 $\geq [3 \times \text{RBW}]$.
- 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

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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

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

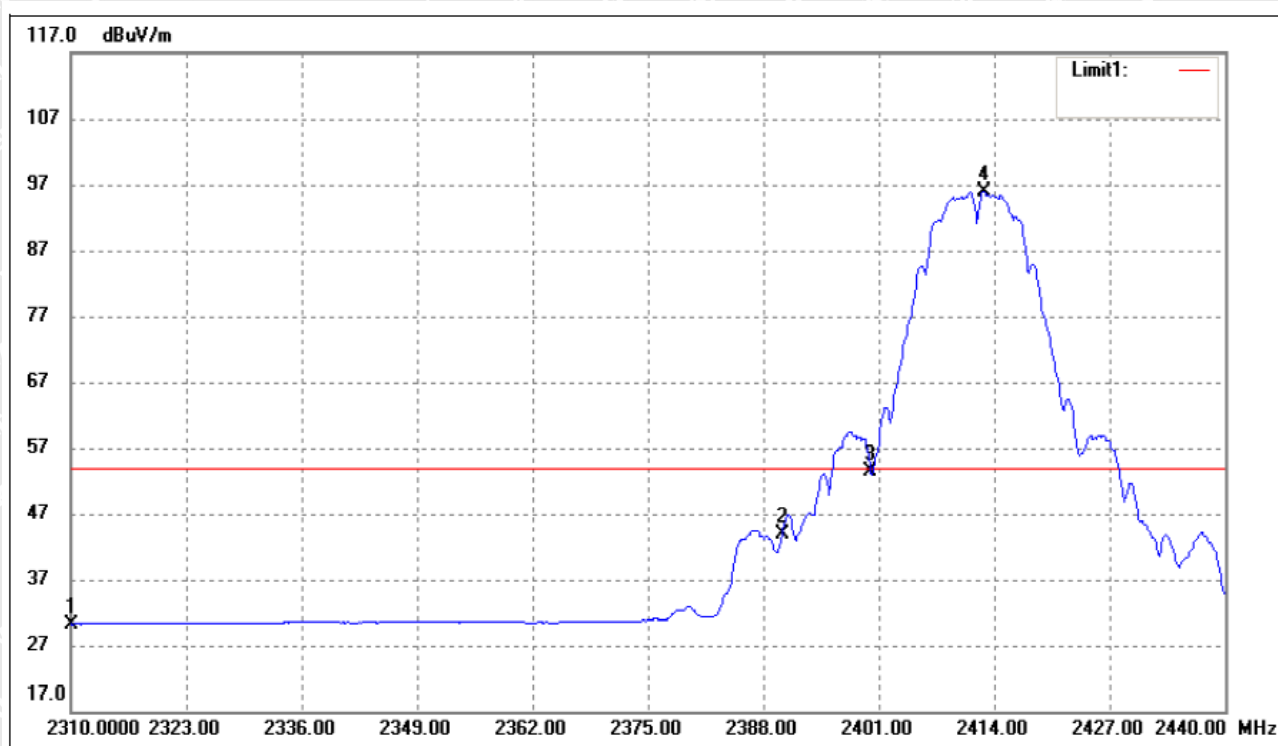
2. All test modes (different data rate and different modulation) are performed, but only the worst case (Vertical) is recorded in this report.

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➤ Radiated test

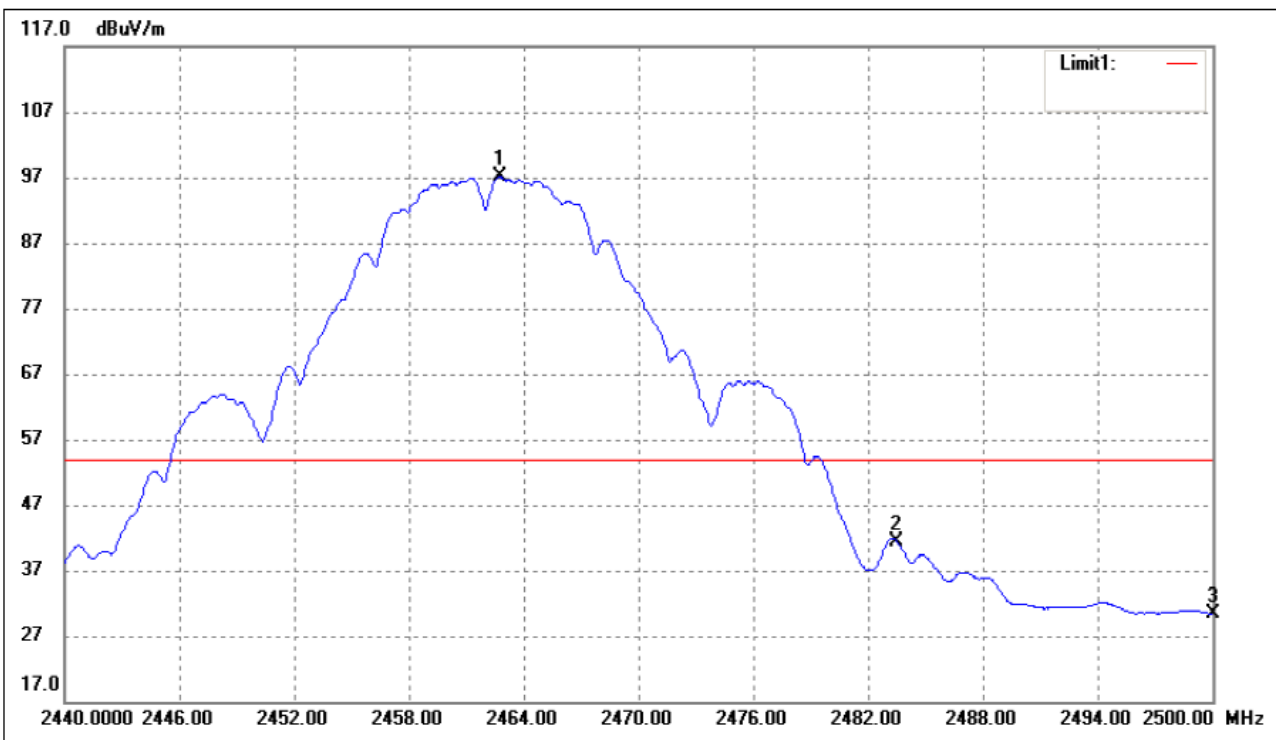
802.11b_11Mbps			
Test Channel	Low	Polarity:	Vertical(worst case)



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2310.000	39.90	-9.66	30.24	54.00	-23.76	Average Detector
	2310.000	53.72	-9.66	44.06	74.00	-29.94	Peak Detector
2	2390.000	53.42	-9.50	43.92	54.00	-10.08	Average Detector
	2390.000	61.25	-9.50	51.75	74.00	-22.25	Peak Detector
3	2400.000	62.84	-9.48	53.36	54.00	-0.64	Average Detector
4	2412.830	105.33	-9.46	95.87	/	/	Average Detector
	2413.480	110.53	-9.45	101.08	/	/	Peak Detector



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



No.	Frequency (MHz)	Reading (dBuV/m)	Correct dB/m	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	2462.740	106.45	-9.36	97.09	/	/	Average Detector
	2463.520	111.34	-9.35	101.99	/	/	Peak Detector
2	2483.500	50.71	-9.31	41.40	54.00	-12.60	Average Detector
	2483.500	61.19	-9.31	51.88	74.00	-22.12	Peak Detector
3	2500.000	39.70	-9.28	30.42	54.00	-23.58	Average Detector
	2500.000	54.69	-9.28	45.41	74.00	-28.59	Peak Detector

➤ Conducted test
Please refer to Appendix E

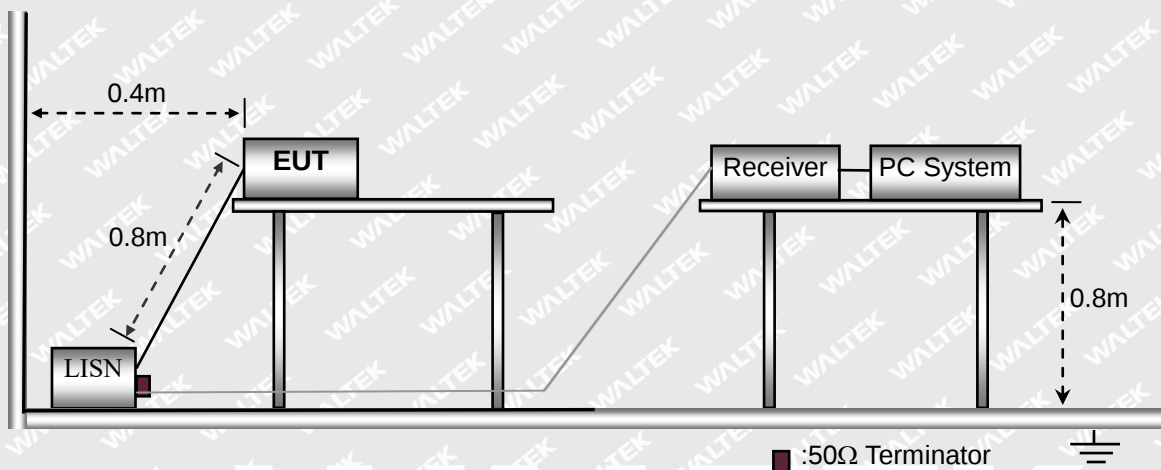


9. Conducted Emissions

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

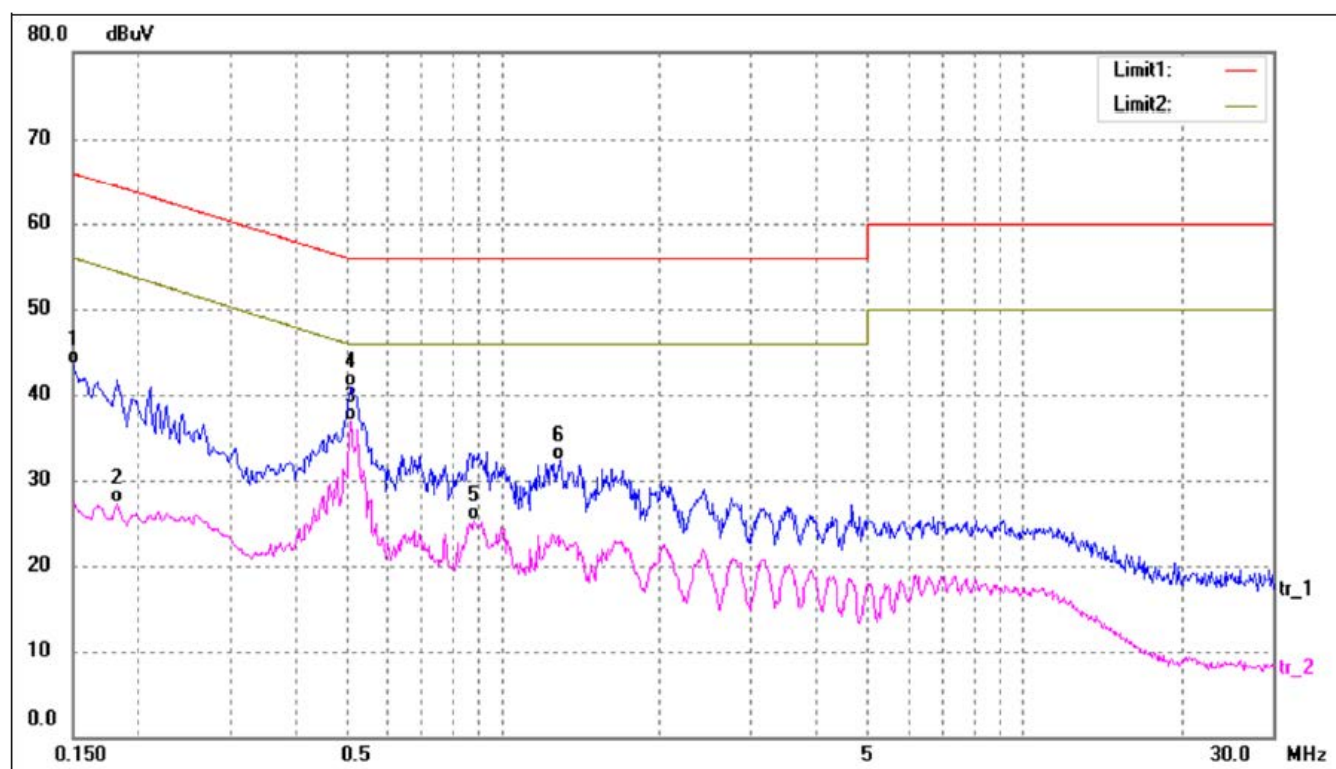
During the conducted emission test, the test receiver was set with the following configurations:

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



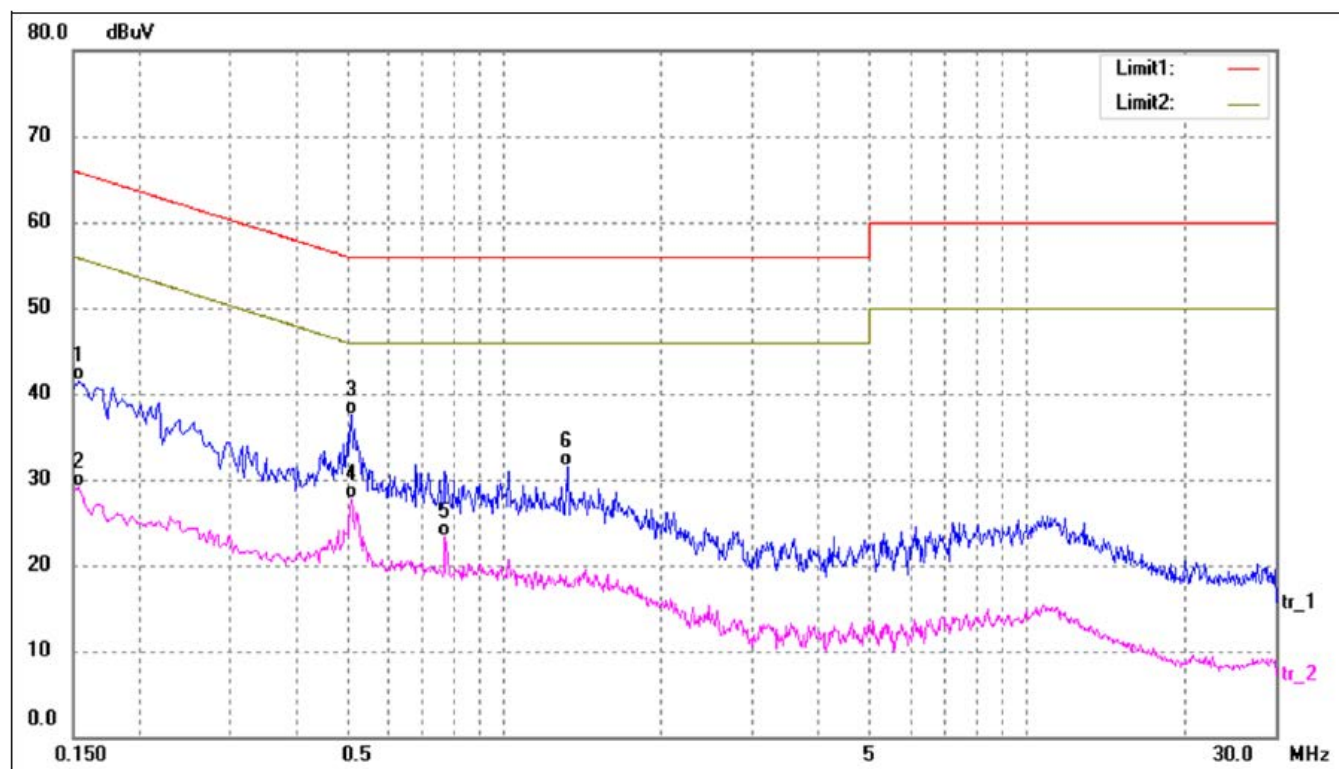
Test Mode	Communication	AC120V 60Hz	Polarity:	Line
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No.	Frequency (MHz)	Reading (dBuV)	Correct (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1500	33.27	10.25	43.52	66.00	-22.48	QP
2	0.1820	17.12	10.26	27.38	54.39	-27.01	AVG
3*	0.5100	26.77	10.22	36.99	46.00	-9.01	AVG
4	0.5140	30.62	10.22	40.84	56.00	-15.16	QP
5	0.8820	15.02	10.22	25.24	46.00	-20.76	AVG
6	1.2940	22.10	10.22	32.32	56.00	-23.68	QP



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	0.1540	31.18	10.25	41.43	65.78	-24.35	QP
2	0.1540	18.93	10.25	29.18	55.78	-26.60	AVG
3	0.5100	27.21	10.22	37.43	56.00	-18.57	QP
4*	0.5100	17.51	10.22	27.73	46.00	-18.27	AVG
5	0.7740	13.15	10.17	23.32	46.00	-22.68	AVG
6	1.3260	21.23	10.22	31.45	56.00	-24.55	QP



APPENDIX SUMMARY

Project No.	WTX22X0803456W-1	Test Engineer	Tom Wang
Start date	2022/09/24	Finish date	2022/10/08
Temperature	24.6°C	Humidity	55%
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
E	Conducted Spurious Emissions	Compliant

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APPENDIX A

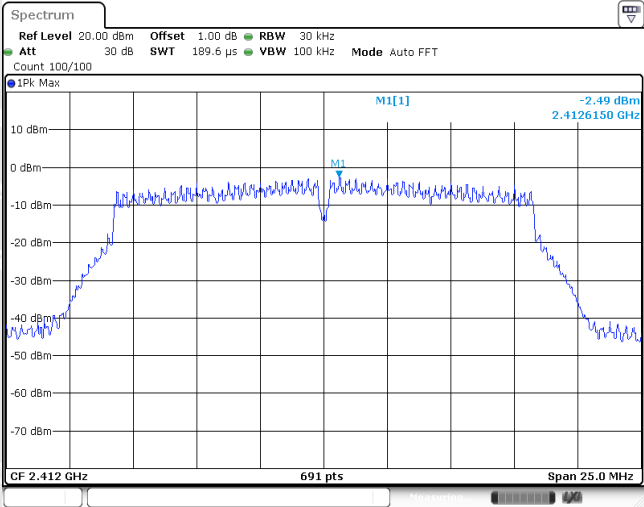
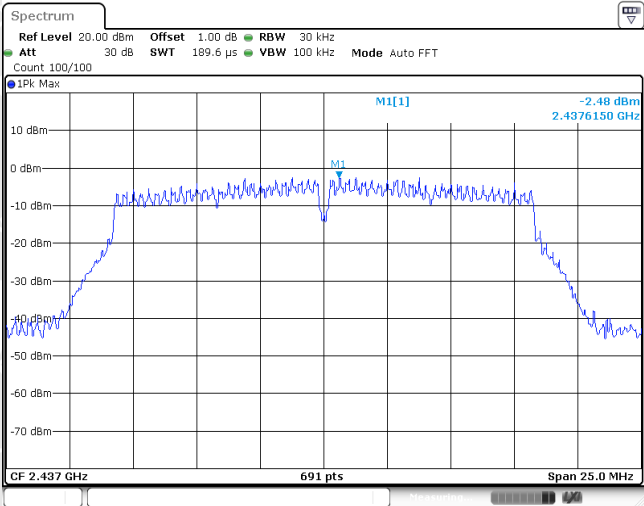
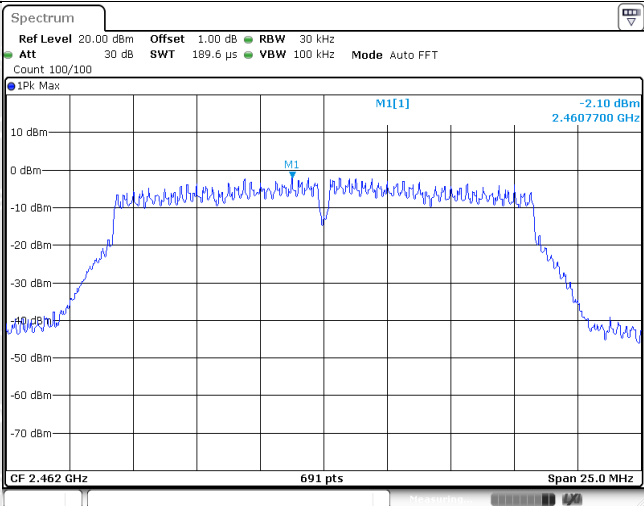
Type	Channel	Power Spectral Density (dBm/30KHz)	Limit (dBm/3KHz)	Result
802.11b	01	5.81	≤8.00	Pass
	06	5.65		
	11	5.85		
802.11g	01	-2.49	≤8.00	Pass
	06	-2.48		
	11	-2.10		
802.11n(HT20)	01	-2.72	≤8.00	Pass
	06	-1.26		
	11	-1.35		
802.11n(HT40)	03	-4.97	≤8.00	Pass
	06	-5.25		
	09	-4.86		

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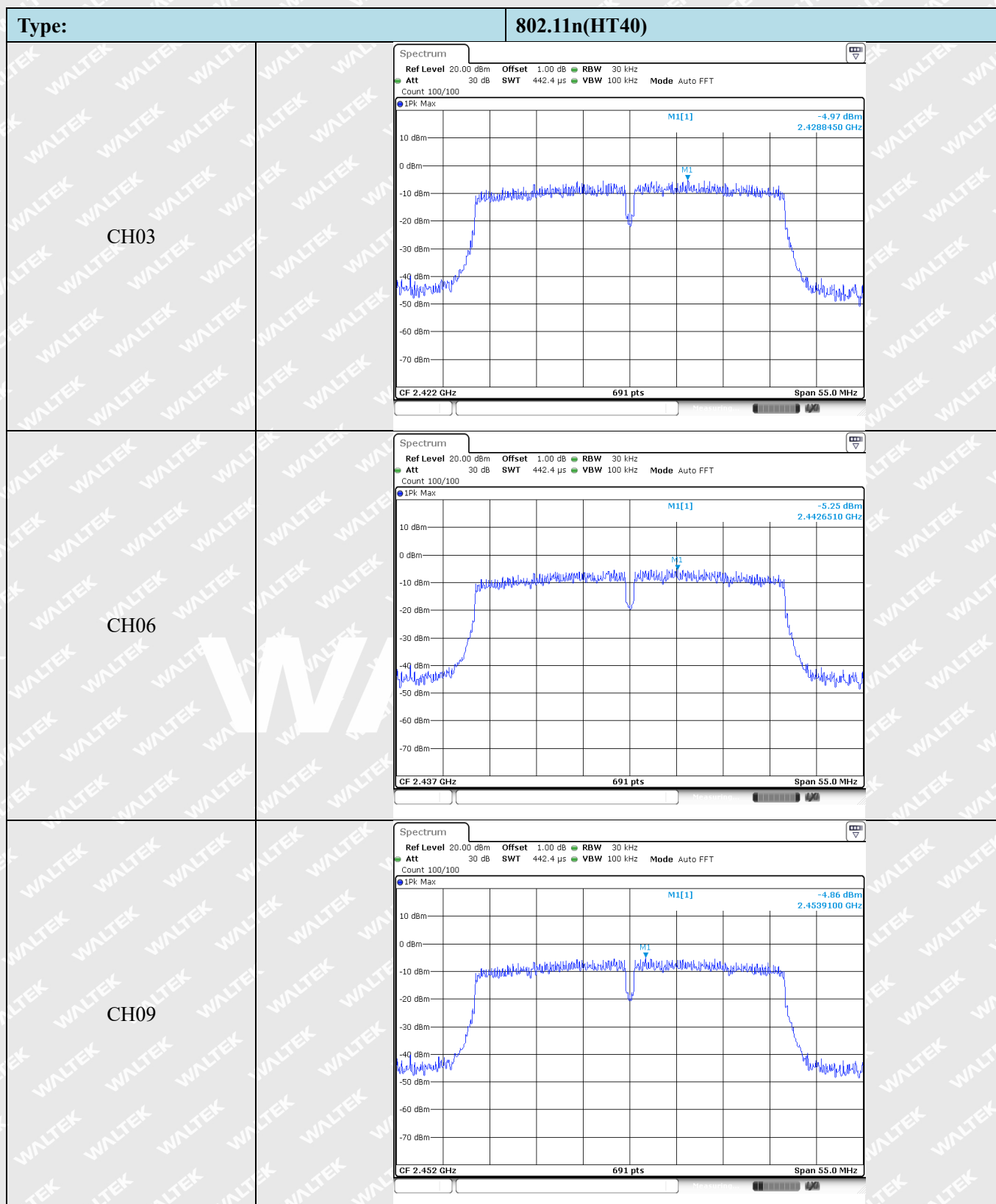
Type:	802.11b
CH01	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 1PK Max M1[1] 5.81 dBm 2.4129960 GHz CF 2.412 GHz 691 pts Span 16.0 MHz
CH06	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 1PK Max M1[1] 5.65 dBm 2.4379960 GHz CF 2.437 GHz 691 pts Span 16.0 MHz
CH11	Spectrum Ref Level 20.00 dBm Offset 1.00 dB RBW 30 kHz Att 30 dB SWI 126.4 μs VBW 100 kHz Mode Auto FFT Count 100/100 1PK Max M1[1] 5.85 dBm 2.4629960 GHz CF 2.462 GHz 691 pts Span 16.0 MHz



Type:	802.11g
CH01	
CH06	
CH11	



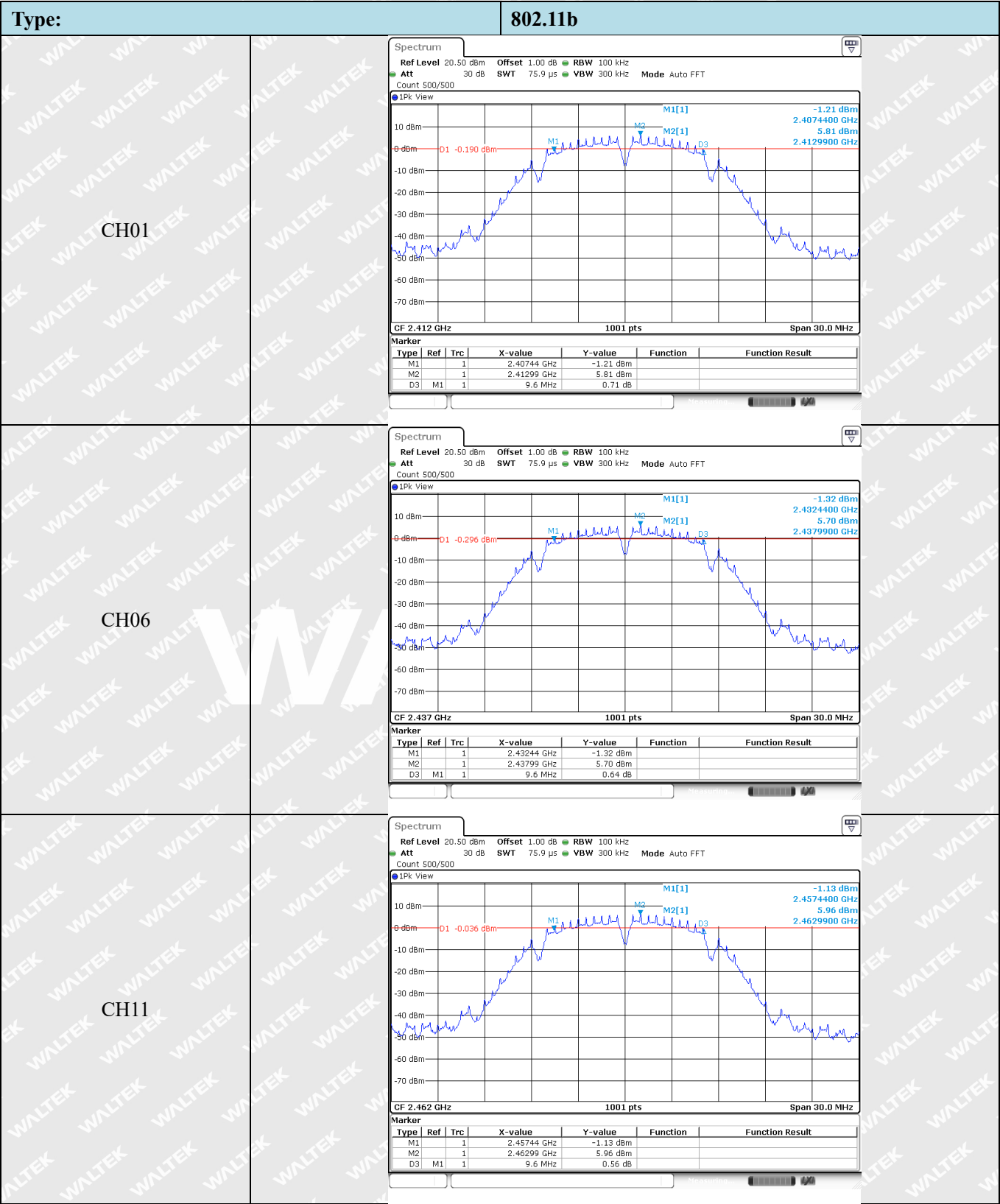
Type:		802.11n(HT20)
CH01		
CH06		
CH11		



**APPENDIX B**

Type	Channel	6dB Bandwidth (MHz)	Limit (kHz)	Result
802.11b	01	9.60	≥ 500	Pass
	06	9.60		
	11	9.60		
802.11g	01	15.48	≥ 500	Pass
	06	15.36		
	11	15.48		
802.11n(HT20)	01	16.35	≥ 500	Pass
	06	15.96		
	11	15.15		
802.11n(HT40)	03	35.46	≥ 500	Pass
	06	35.28		
	09	35.28		

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Type:		802.11g																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M2[1] M1[1] D1 -4.354 dBm -4.64 dBm 2.4044400 GHz 1.65 dBm 2.4132600 GHz CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40444 GHz</td><td>-4.64 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.41326 GHz</td><td>1.65 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.48 MHz</td><td>-0.19 dB</td><td></td><td></td></tr></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40444 GHz	-4.64 dBm			M2	1		2.41326 GHz	1.65 dBm			D3	M1	1	15.48 MHz	-0.19 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.40444 GHz	-4.64 dBm																										
M2	1		2.41326 GHz	1.65 dBm																										
D3	M1	1	15.48 MHz	-0.19 dB																										
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M2[1] M1[1] D1 -3.478 dBm -4.19 dBm 2.4294400 GHz 2.52 dBm 2.4357400 GHz CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.42944 GHz</td><td>-4.19 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.43574 GHz</td><td>2.52 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.36 MHz</td><td>0.03 dB</td><td></td><td></td></tr></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.42944 GHz	-4.19 dBm			M2	1		2.43574 GHz	2.52 dBm			D3	M1	1	15.36 MHz	0.03 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.42944 GHz	-4.19 dBm																										
M2	1		2.43574 GHz	2.52 dBm																										
D3	M1	1	15.36 MHz	0.03 dB																										
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT IPk View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm M1 M2 M2[1] M1[1] D1 -3.163 dBm -3.73 dBm 2.4544400 GHz 2.84 dBm 2.4632600 GHz CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.45444 GHz</td><td>-3.73 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.46326 GHz</td><td>2.84 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.48 MHz</td><td>0.44 dB</td><td></td><td></td></tr></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.45444 GHz	-3.73 dBm			M2	1		2.46326 GHz	2.84 dBm			D3	M1	1	15.48 MHz	0.44 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.45444 GHz	-3.73 dBm																										
M2	1		2.46326 GHz	2.84 dBm																										
D3	M1	1	15.48 MHz	0.44 dB																										



Type:		802.11n(HT20)																												
CH01	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT 1PK View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.412 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.40408 GHz</td><td>-5.32 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.41326 GHz</td><td>1.60 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>16.35 MHz</td><td>0.09 dB</td><td></td><td></td></tr></table> -5.32 dBm 2.4040800 GHz 1.60 dBm 2.4132600 GHz		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.40408 GHz	-5.32 dBm			M2	1		2.41326 GHz	1.60 dBm			D3	M1	1	16.35 MHz	0.09 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.40408 GHz	-5.32 dBm																										
M2	1		2.41326 GHz	1.60 dBm																										
D3	M1	1	16.35 MHz	0.09 dB																										
CH06	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT 1PK View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.437 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.42947 GHz</td><td>-3.44 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.43826 GHz</td><td>2.85 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.96 MHz</td><td>-0.09 dB</td><td></td><td></td></tr></table> -3.44 dBm 2.4294700 GHz 2.85 dBm 2.4382600 GHz		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.42947 GHz	-3.44 dBm			M2	1		2.43826 GHz	2.85 dBm			D3	M1	1	15.96 MHz	-0.09 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.42947 GHz	-3.44 dBm																										
M2	1		2.43826 GHz	2.85 dBm																										
D3	M1	1	15.96 MHz	-0.09 dB																										
CH11	Spectrum Ref Level 20.50 dBm Att 30 dB Offset 1.00 dB RBW 100 kHz Count 500/500 SWT 75.9 μs VBW 300 kHz Mode Auto FFT 1PK View 10 dBm 0 dBm -10 dBm -20 dBm -30 dBm -40 dBm -50 dBm -60 dBm -70 dBm CF 2.462 GHz 1001 pts Span 30.0 MHz Marker <table><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr><tr><td>M1</td><td>1</td><td></td><td>2.45444 GHz</td><td>-4.58 dBm</td><td></td><td></td></tr><tr><td>M2</td><td>1</td><td></td><td>2.46326 GHz</td><td>2.64 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>15.15 MHz</td><td>0.02 dB</td><td></td><td></td></tr></table> -4.58 dBm 2.4544400 GHz 2.64 dBm 2.4632600 GHz		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		2.45444 GHz	-4.58 dBm			M2	1		2.46326 GHz	2.64 dBm			D3	M1	1	15.15 MHz	0.02 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1	1		2.45444 GHz	-4.58 dBm																										
M2	1		2.46326 GHz	2.64 dBm																										
D3	M1	1	15.15 MHz	0.02 dB																										



Type:		802.11n(HT40)																												
CH03	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] -8.76 dBm M2[1] -0.59 dBm D1 -6.585 dBm 2.404360 GHz 2.426980 GHz CF 2.422 GHz 1001 pts Span 60.0 MHz Marker <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.40436 GHz</td><td>-8.76 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.42698 GHz</td><td>-0.59 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>35.46 MHz</td><td>2.10 dB</td><td></td><td></td></tr></tbody></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.40436 GHz	-8.76 dBm			M2		1	2.42698 GHz	-0.59 dBm			D3	M1	1	35.46 MHz	2.10 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.40436 GHz	-8.76 dBm																										
M2		1	2.42698 GHz	-0.59 dBm																										
D3	M1	1	35.46 MHz	2.10 dB																										
CH06	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] -8.82 dBm M2[1] -0.41 dBm D1 -6.414 dBm 2.419360 GHz 2.434480 GHz CF 2.437 GHz 1001 pts Span 60.0 MHz Marker <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.41936 GHz</td><td>-8.82 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.43448 GHz</td><td>-0.41 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>35.28 MHz</td><td>1.25 dB</td><td></td><td></td></tr></tbody></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.41936 GHz	-8.82 dBm			M2		1	2.43448 GHz	-0.41 dBm			D3	M1	1	35.28 MHz	1.25 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.41936 GHz	-8.82 dBm																										
M2		1	2.43448 GHz	-0.41 dBm																										
D3	M1	1	35.28 MHz	1.25 dB																										
CH09	Spectrum Ref Level 20.50 dBm Offset 1.00 dB RBW 100 kHz Att 30 dB SWT 132.7 μs VBW 300 kHz Mode Auto FFT Count 500/500 1Pk View M1[1] -9.16 dBm M2[1] -0.41 dBm D1 -6.415 dBm 2.434360 GHz 2.449480 GHz CF 2.452 GHz 1001 pts Span 60.0 MHz Marker <table><thead><tr><th>Type</th><th>Ref</th><th>Trc</th><th>X-value</th><th>Y-value</th><th>Function</th><th>Function Result</th></tr></thead><tbody><tr><td>M1</td><td></td><td>1</td><td>2.43436 GHz</td><td>-9.16 dBm</td><td></td><td></td></tr><tr><td>M2</td><td></td><td>1</td><td>2.44948 GHz</td><td>-0.41 dBm</td><td></td><td></td></tr><tr><td>D3</td><td>M1</td><td>1</td><td>35.28 MHz</td><td>1.18 dB</td><td></td><td></td></tr></tbody></table>		Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1		1	2.43436 GHz	-9.16 dBm			M2		1	2.44948 GHz	-0.41 dBm			D3	M1	1	35.28 MHz	1.18 dB		
Type	Ref	Trc	X-value	Y-value	Function	Function Result																								
M1		1	2.43436 GHz	-9.16 dBm																										
M2		1	2.44948 GHz	-0.41 dBm																										
D3	M1	1	35.28 MHz	1.18 dB																										

**APPENDIX C**

Type	Channel	Peak Output power (dBm)	Average Output power (dBm)	Limit (dBm)	Result
802.11b	01	17.47	15.77	≤30.00	Pass
	06	17.09	15.47		
	11	17.50	15.37		
802.11g	01	20.06	17.05	≤30.00	Pass
	06	21.03	17.79		
	11	21.03	17.25		
802.11n(HT20)	01	20.13	16.61	≤30.00	Pass
	06	21.35	17.56		
	11	21.06	17.26		
802.11n(HT40)	03	21.43	17.94	≤30.00	Pass
	06	21.43	17.88		
	09	21.33	17.71		

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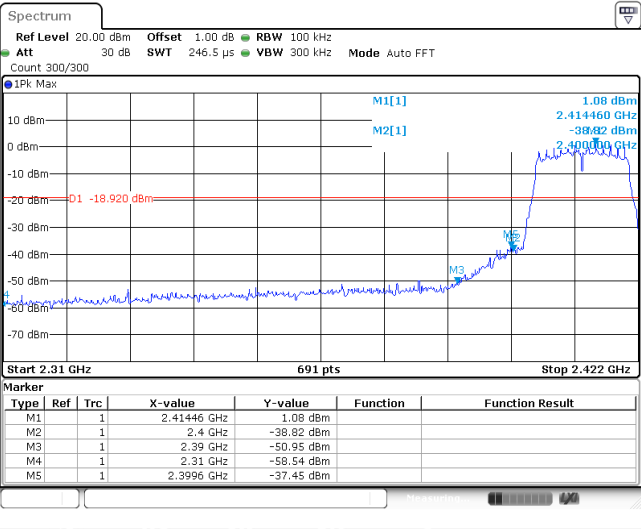
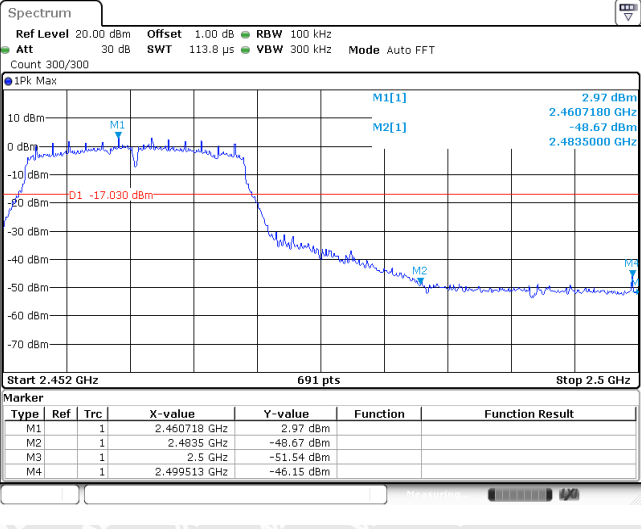


APPENDIX D

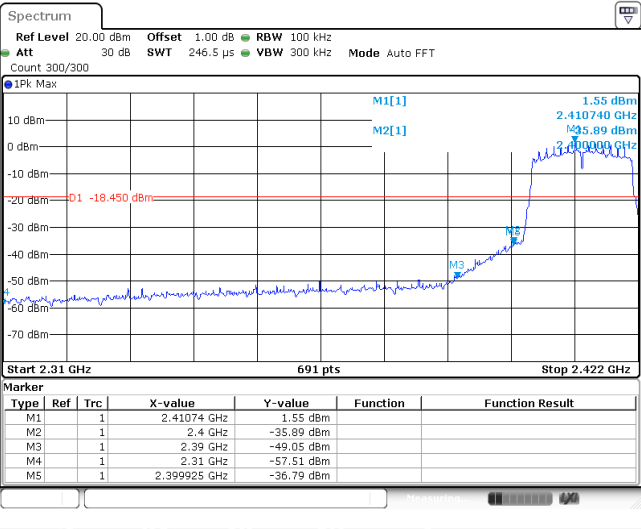
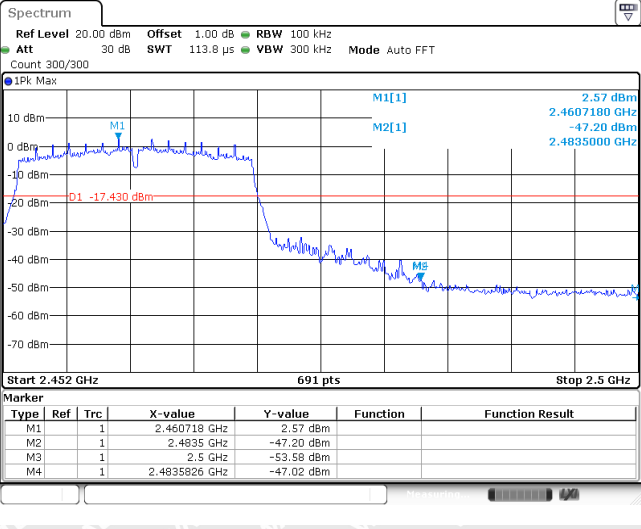
CONDUCTED SPURIOUS EMISSION:

Test Item:	Bandedge	Type:	802.11b
CH01			
CH11			

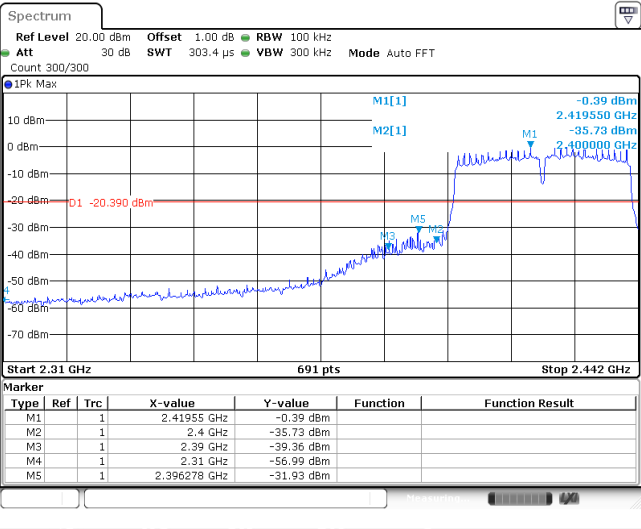
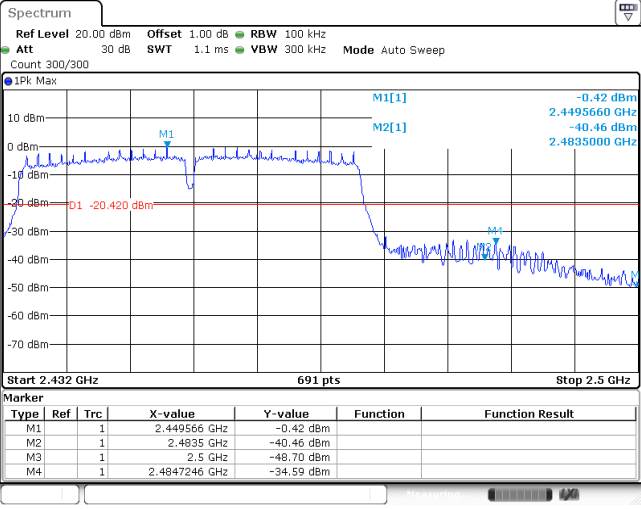


Test Item:	Bandedge	Type:	802.11g
CH01			
CH11			



Test Item:	Bandedge	Type:	802.11n(HT20)
CH01			
CH11			



Test Item:	Bandedge	Type:	802.11n(HT40)
CH03			
CH09			

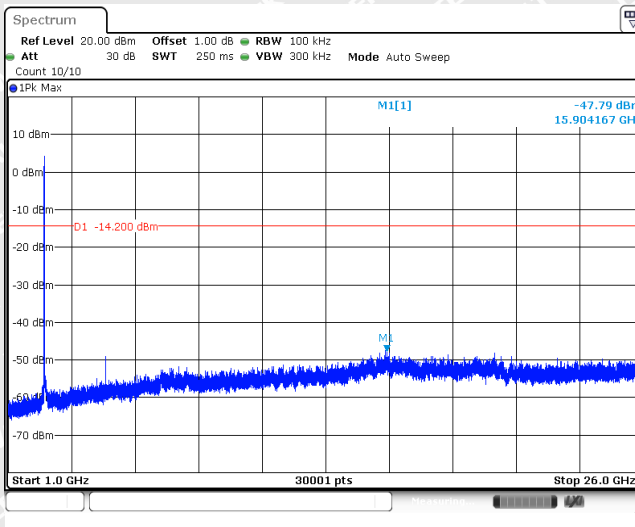


APPENDIX E

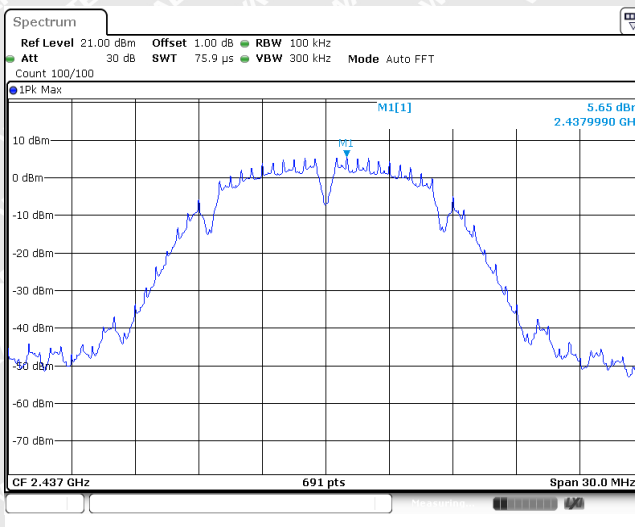
Test Item:	SE	Type:	802.11b
CH01 Reference level			
CH01 30MHz~1000MHz			



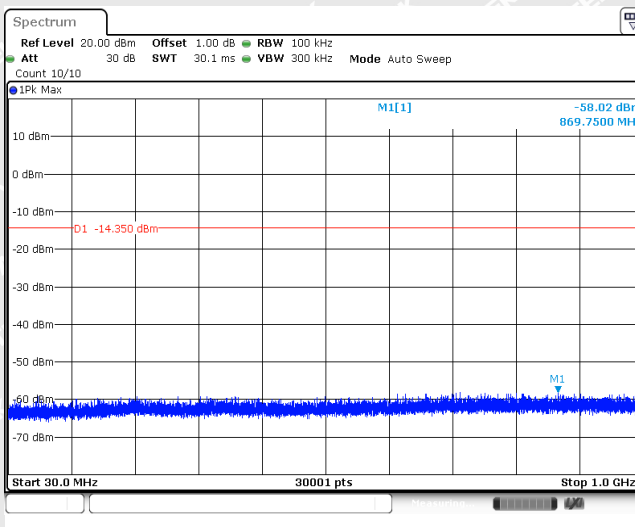
CH01
1GHz~26GHz



CH06
Reference level

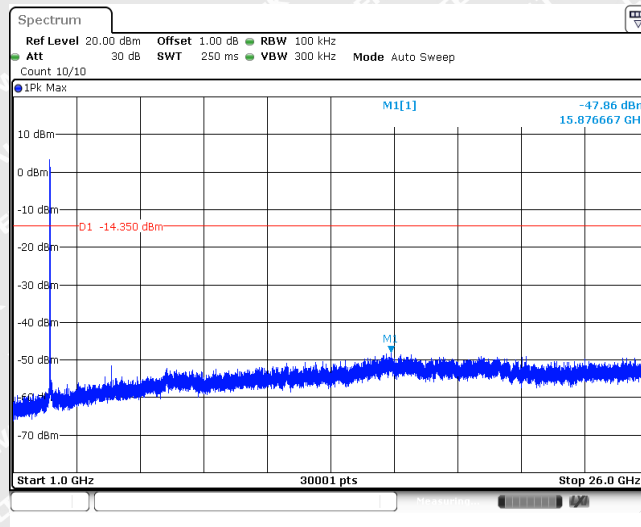


CH06
30MHz~1000MHz

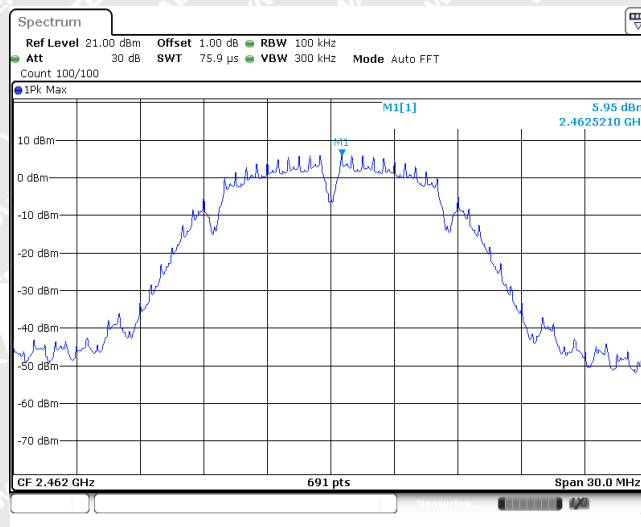




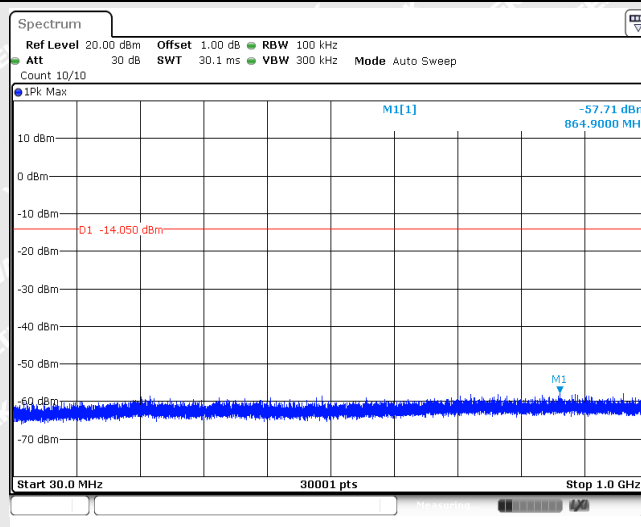
CH06
1GHz~26GHz

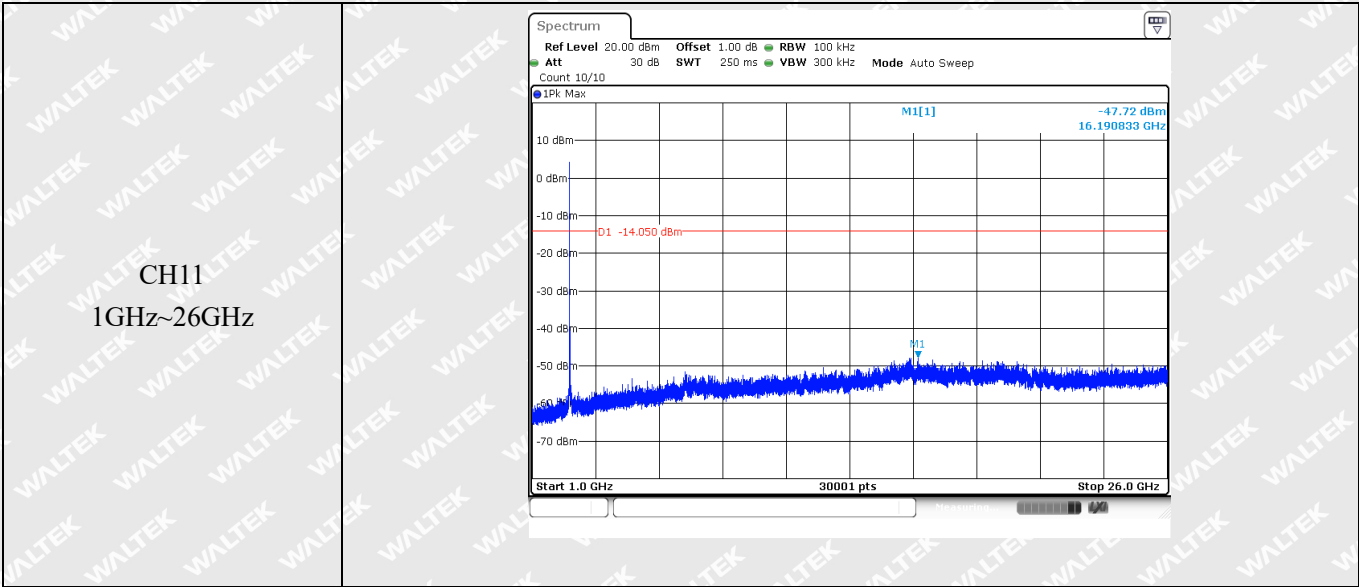


CH11
Reference level



CH11
30MHz~1000MHz



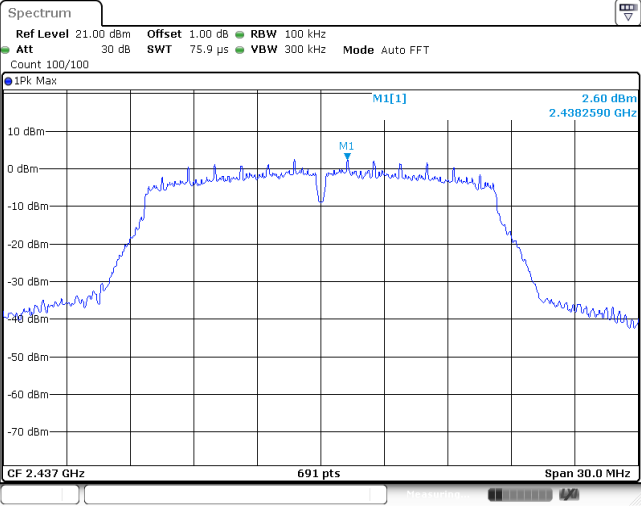
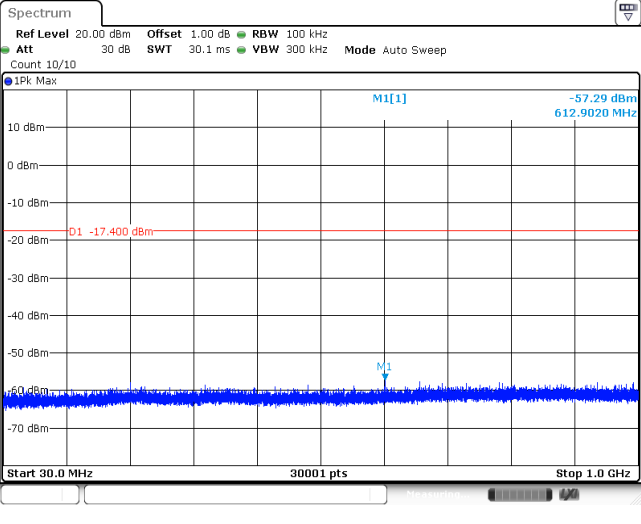
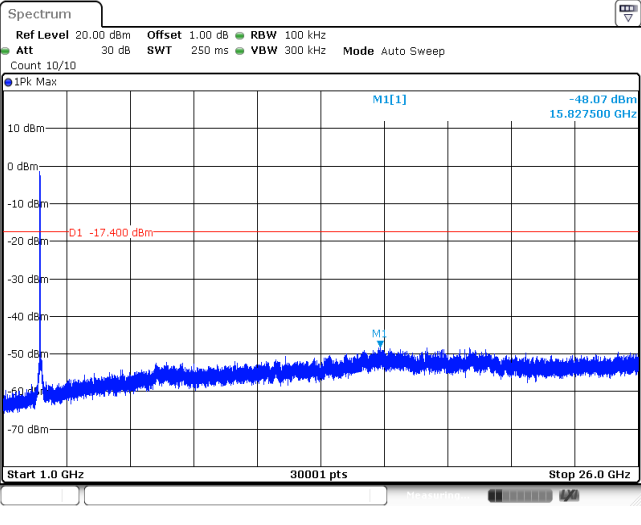


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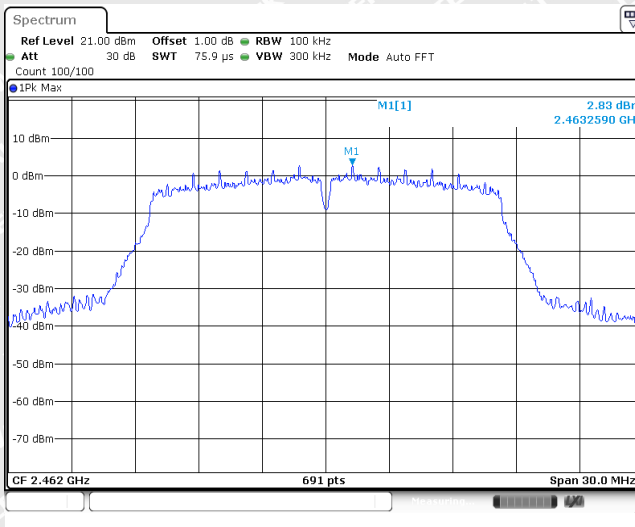
Test Item:	SE	Type:	802.11g
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			



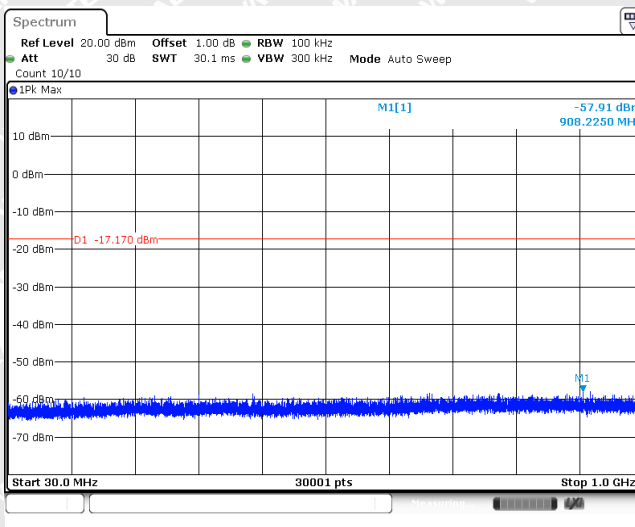
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	



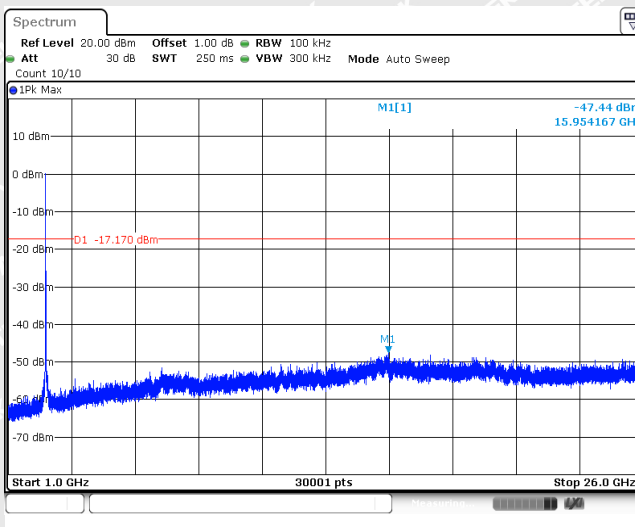
CH11
Reference level



CH11
30MHz~1000MHz



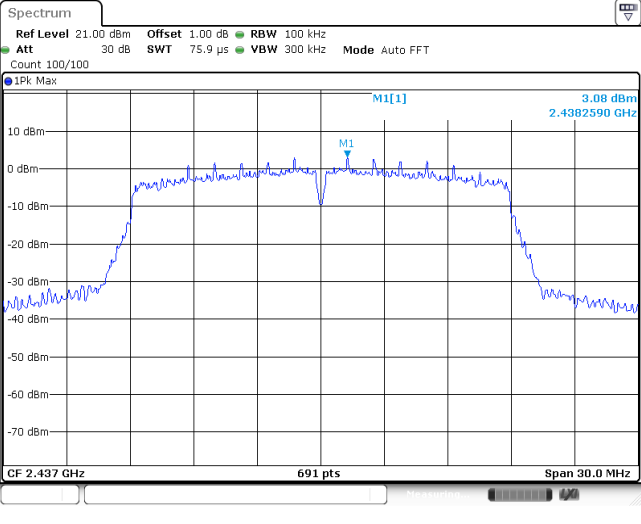
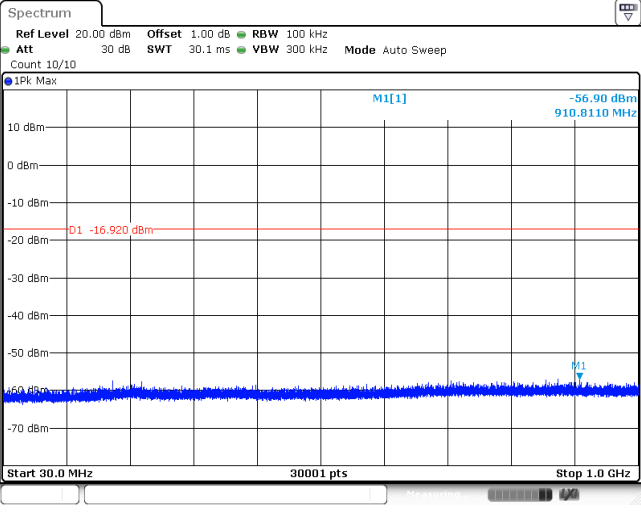
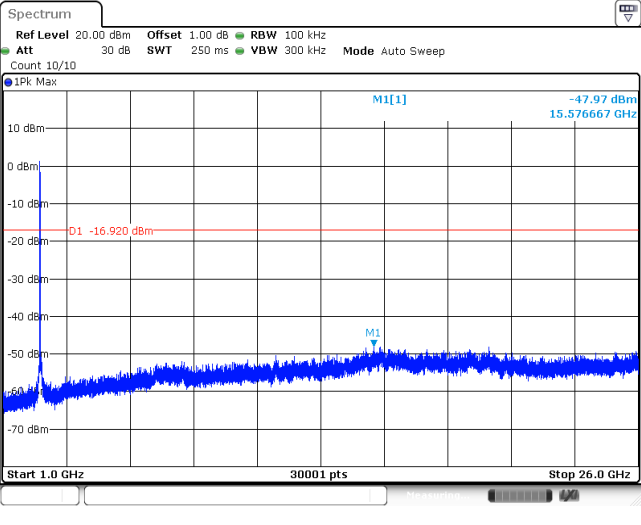
CH11
1GHz~26GHz





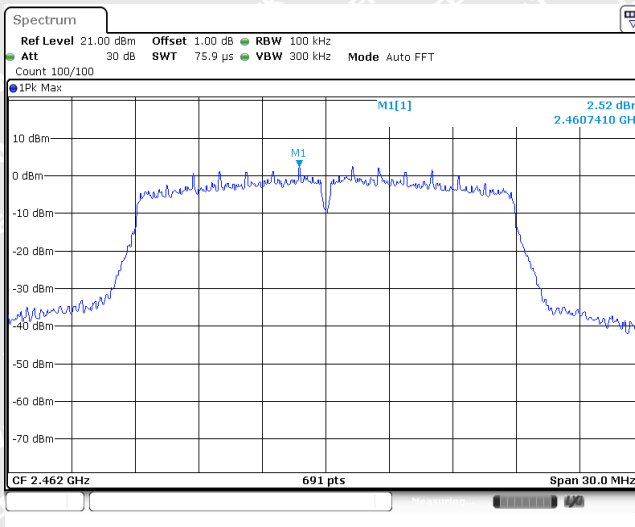
Test Item:	SE	Type:	802.11n(HT20)
CH01 Reference level			
CH01 30MHz~1000MHz			
CH01 1GHz~26GHz			



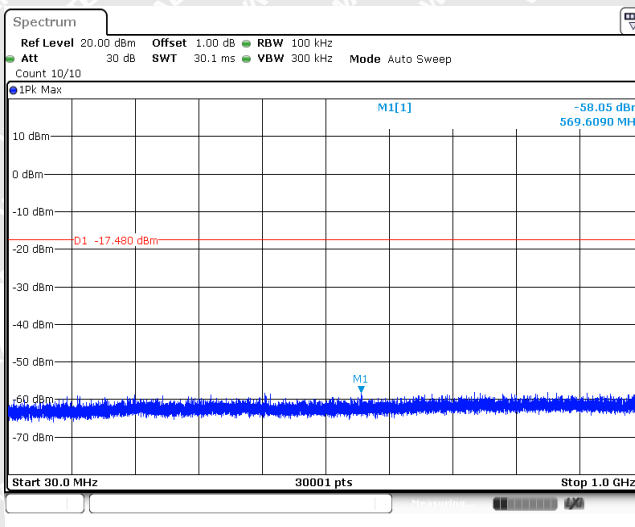
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	



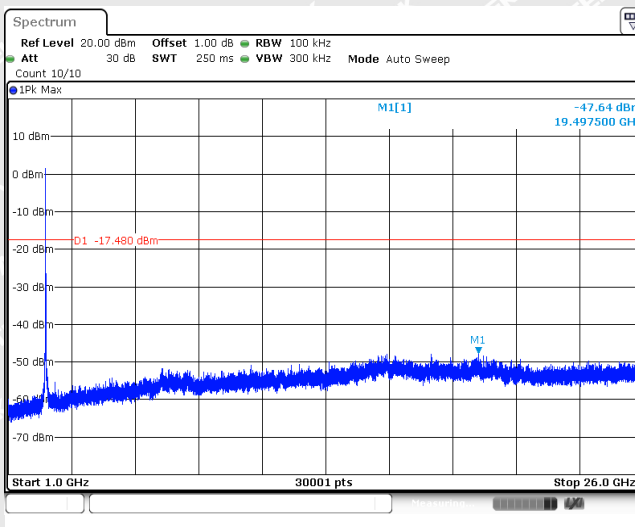
CH11
Reference level



CH11
30MHz~1000MHz



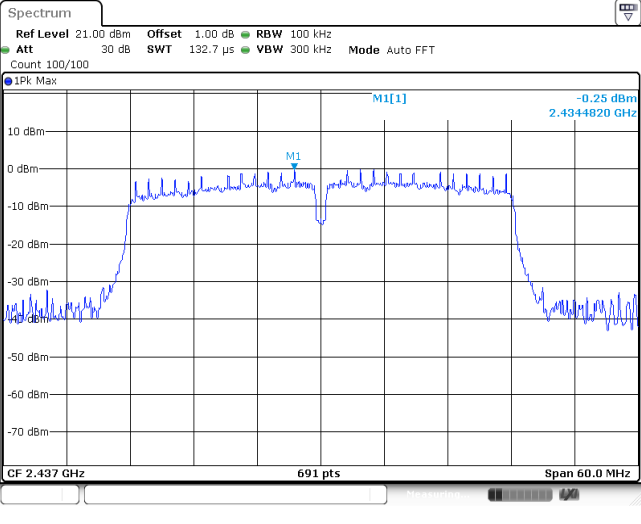
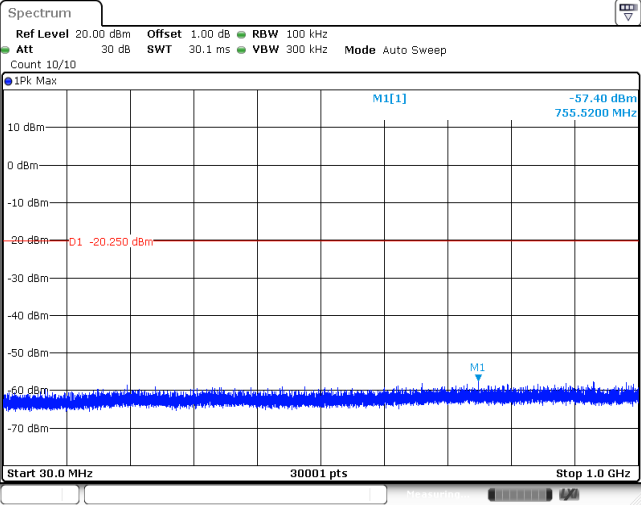
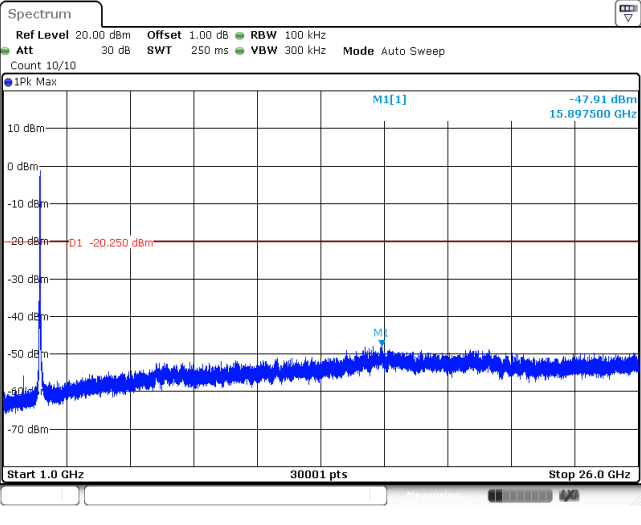
CH11
1GHz~26GHz





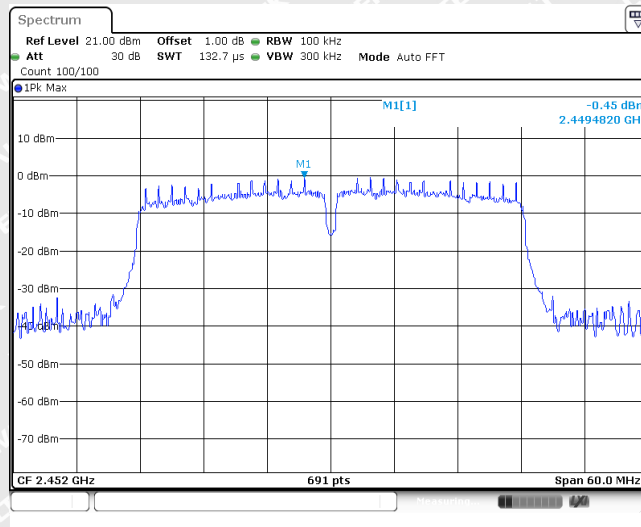
Test Item:	SE	Type:	802.11n(HT40)
CH03 Reference level			
CH03 30MHz~1000MHz			
CH03 1GHz~26GHz			



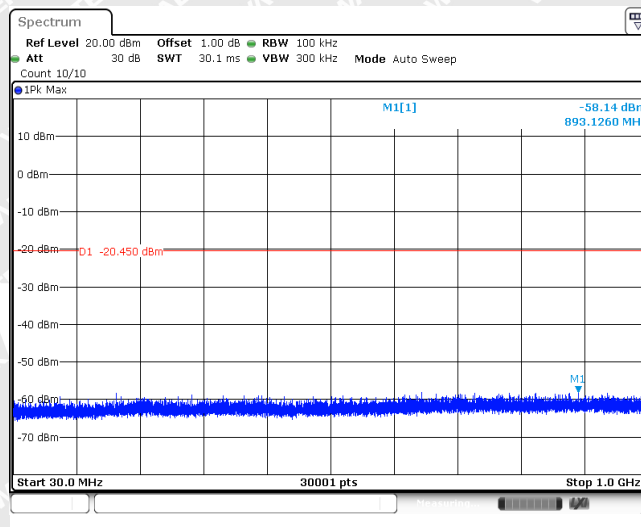
CH06 Reference level	
CH06 30MHz~1000MHz	
CH06 1GHz~26GHz	



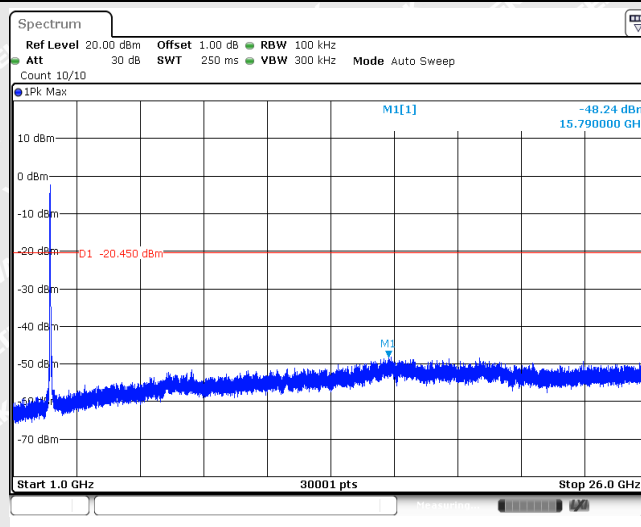
CH09
Reference level



CH09
30MHz~1000MHz



CH09
1GHz~26GHz





APPENDIX PHOTOGRAPHS

Please refer to “ANNEX”

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

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