FCC RF Test Report

APPLICANT	:	Motorola Mobility LLC
EQUIPMENT	:	Mobile Cellular Phone
BRAND NAME	:	Motorola
MODEL NAME	:	XT2043-4, XT2043-5, XT2043-6
FCC ID	:	IHDT56YN1
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System

The product was received on Oct. 09, 2019 and testing was completed on Nov. 25, 2019. We, Sporton International (Kunshan) Inc., would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International (Kunshan) Inc., the test report shall not be reproduced except in full.

Jason Jia

Reviewed by: Jason Jia / Supervisor

James Huang

Approved by: James Huang / Manager

ACCREDITED
Cert #5145.02

Sporton International (Kunshan) Inc.
No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China

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APPENDIX A. CONDUCTED TEST RESULTS

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR9O0912C	Rev. 01	Initial issue of report	Dec. 10, 2019

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
3.1	-	99% Bandwidth	-	Pass	-
3.2	15.247(b)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 20dBc	Pass	-
		Conducted Spurious Emission		Pass	-
3.5	15.247(d)	Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 6.25 dB at 2483.500 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.23 dB at 0.162 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	Pass	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and Explanations:
The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

1 General Description

1.1 Applicant

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC
222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Mobile Cellular Phone
Brand Name	Motorola
Model Name	XT2043-4, XT2043-5, XT2043-6
FCC ID	IHDT56YN1
EUT supports Radios application	CDMA/EV-DO/GSM/GPRS/EGPRS/WCDMA/HSPA/ DC-HSDPA/HSPA+(16QAM uplink is not supported)/LTE WLAN 2.4GHz 802.11b/g/n HT20 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE GNSS/FM Receiver
IMEI Code	Conducted: 359084100014845 Conduction: 359084100021188 Radiation: 359084100022632
HW Version	DVT2
SW Version	QPR30.56
EUT Stage	Identical Prototype

Remark:

1. The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.
2. The different model names are for different market requirement.

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum (Peak) Output Power to antenna	802.11b : 23.34 dBm (0.2158 W) 802.11g : 24.64 dBm (0.2911 W) 802.11n HT20 : 24.18 dBm (0.2618 W)
99% Occupied Bandwidth	802.11b : 13.99MHz 802.11g : 17.73MHz 802.11n HT20 : 18.83MHz
Antenna Type / Gain	Loop Antenna with gain -5.0 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Specification of Accessory

Specification of Accessory				
AC Adapter 1	**Brand Name**	Motorola (Acbel)	**Model Name**	SC-41
	Power Rating	I/P: 100-240 Vac, 300mA ; O/P: 5Vdc, 2000mA		
AC Adapter 2	**Brand Name**	Motorola (Chenyang)	**Model Name**	SC-41
	Power Rating	I/P: 100-240 Vac, 300mA ; O/P: 5Vdc, 2000mA		
Battery	**Brand Name**	Motorola (Amperex)	**Model Name**	KX50
	Power Rating	3.8Vdc, 4000mAh	**Type**	Li-ion
USB Cable 1	**Brand Name**	Motorola (Luxshare)	**Model Name**	SC18C24368
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		
USB Cable 2	**Brand Name**	Motorola (Saibao)	**Model Name**	SC18C24367
	Signal Line Type	1.0 meter, shielded cable, without ferrite core		

1.6 Modification of EUT

No modifications are made to the EUT during all test items.

1.7 Testing Location

Sporton International (Kunshan) Inc. is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International (Kunshan) Inc.		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158 FAX : +86-512-57900958		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH06-KS TH01-KS	CN1257	314309

1.8 Test Software

Item	Site	Manufacture	Name	Version
1.	03CH06-KS	AUDIX	E3	6.2009-8-24al
2.	CO01-KS	AUDIX	E3	6.2009-8-24

1.9 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- ANSI C63.10-2013

Remark:

1. All test items were verified and recorded according to the standards and without any deviation during the test.
2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.

2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Y plane) were recorded in this report.

b. AC power line Conducted Emission was tested under maximum output power.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
2400-2483.5 MHz	1	2412	7	2442
	2	2417	8	2447
	3	2422	9	2452
	4	2427	10	2457
	5	2432	11	2462
	6	2437		

2.2 Test Mode

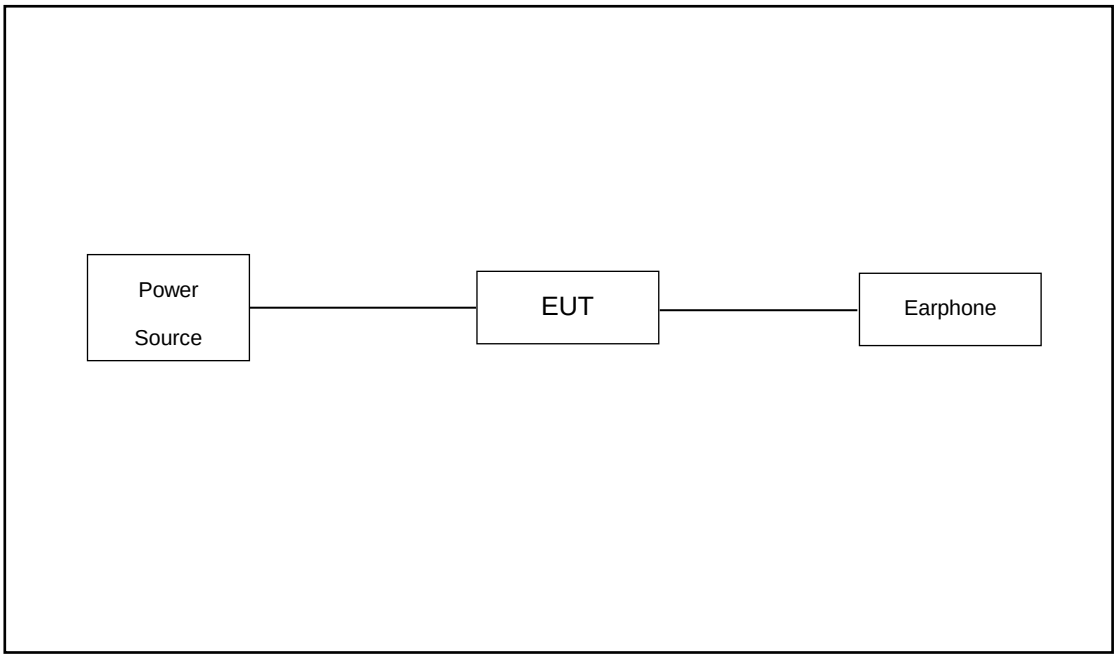
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0

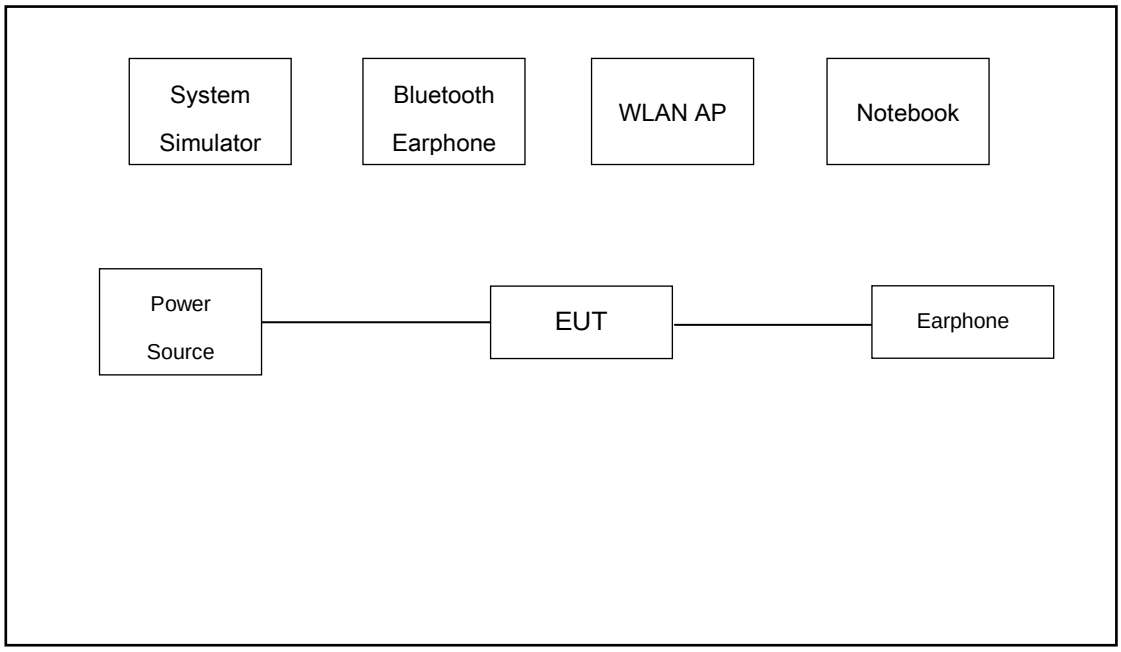
Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle + Bluetooth Link + WLAN Link (2.4G) + USB Cable 1(Charging from Adapter 1) + Earphone
Remark: For Radiated Test Cases, The tests were performed with Adapter 1, Earphone and USB Cable 1.	

2.3 Connection Diagram of Test System

For Radiation



For Conducted Emission



2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded, 1.8m
3.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
4.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	AC I/P: Unshielded, 1.8 m DC O/P: Shielded, 1.8 m
5.	Earphone	Lenovo	N/A	N/A	Unshielded,1.2m	N/A

2.5 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit/receive.

For AC power line conducted emissions, the EUT was set to connect with the WLAN AP under large package sizes transmission.

2.6 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

Example:

The spectrum analyzer offset is derived from RF cable loss

Offset = RF cable loss

Following shows an offset computation example with cable loss 6.2dB.

Offset(dB) = RF cable loss(dB).

= 6.2 (dB)

3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

The minimum 6 dB bandwidth shall be at least 500 kHz.

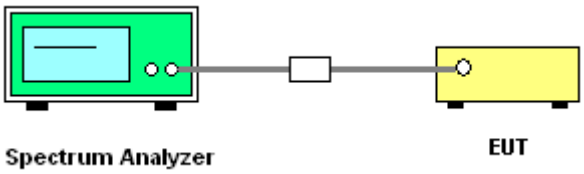
3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.1.3 Test Procedures

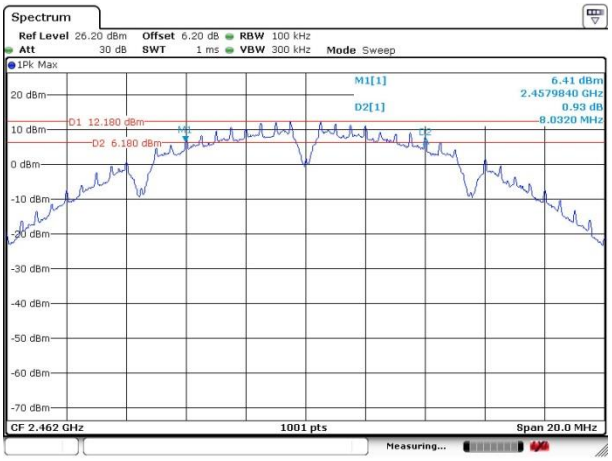
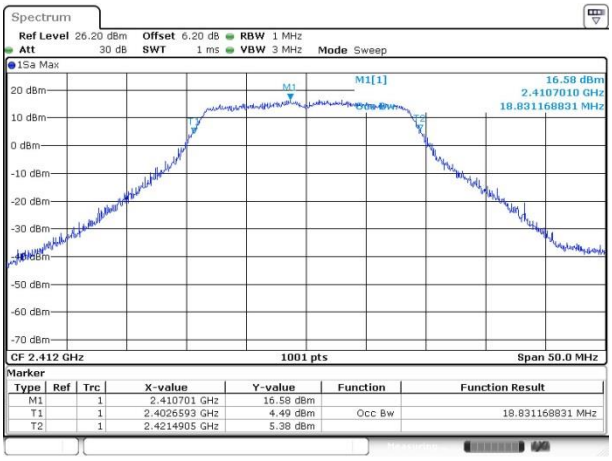
1. The testing follows ANSI C63.10-2013 clause 11.8
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6 dB bandwidth must be greater than 500 kHz.
5. For 99% Bandwidth Measurement, the spectrum analyzer's resolution bandwidth (RBW) = 1MHz and set the Video bandwidth (VBW) = 3MHz.
6. Measure and record the results in the test report.

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

Minimum 6dB Bandwidth	Maximum 99% Occupied Bandwidth
	

Note : The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

3.2 Output Power Measurement

3.2.1 Limit of Output Power

For systems using digital modulation in the 2400-2483.5MHz, the limit for peak output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the peak output power from the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the antenna exceeds 6 dBi. In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of the antenna exceeds 6dBi.

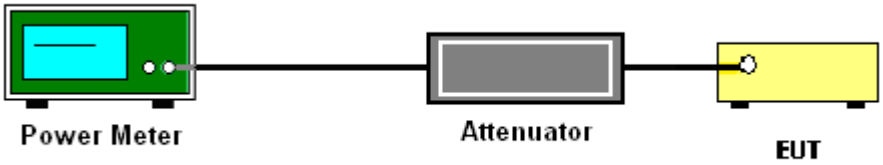
3.2.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.2.3 Test Procedures

1. The testing follows the Measurement Procedure of ANSI C63.10-2013 clause 11.9.1.3 PKPM1 Peak power meter or ANSI C63.10-2013 clause 11.9.2.3.2 Method AVGPM-G method.
2. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Measure the conducted output power and record the results in the test report.

3.2.4 Test Setup



3.2.5 Test Result of Peak Output Power

Please refer to Appendix A.

3.2.6 Test Result of Average output Power (Reporting Only)

Please refer to Appendix A.

3.3 Power Spectral Density Measurement

3.3.1 Limit of Power Spectral Density

The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.

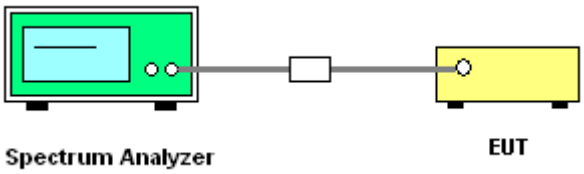
3.3.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.3.3 Test Procedures

1. The testing follows Measurement Procedure of ANSI C63.10-2013 clause 11.10.2 Method PKPSD.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 3 kHz. Video bandwidth VBW = 10 kHz In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW)
5. Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level.
6. Measure and record the results in the test report.

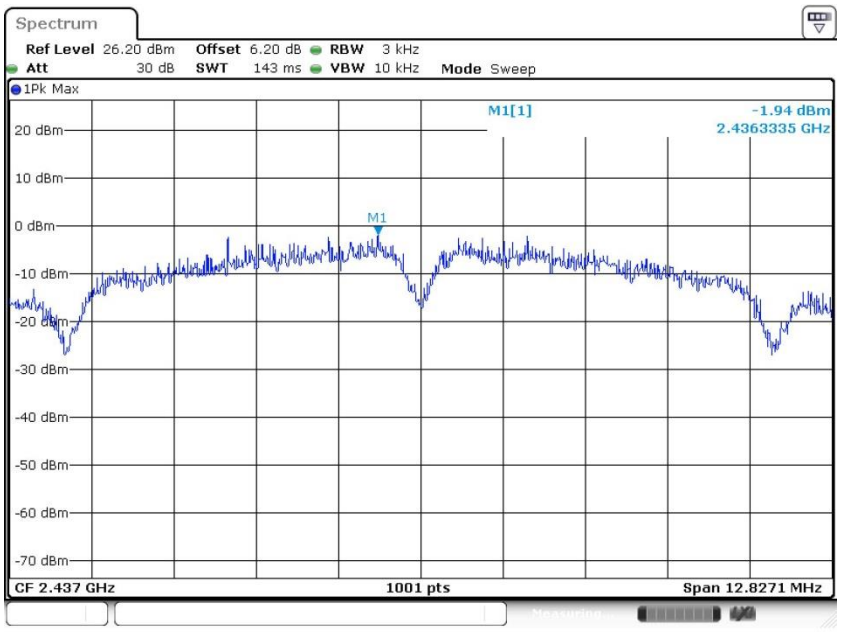
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



3.4 Conducted Band Edges and Spurious Emission Measurement

3.4.1 Limit of Conducted Band Edges and Spurious Emission Measurement

In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement.

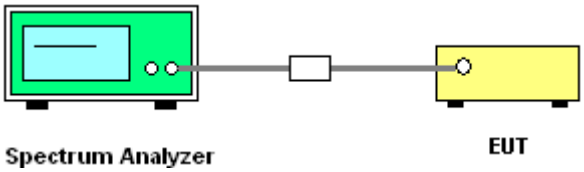
3.4.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2013 clause 11.13
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.
3. Set to the maximum power setting and enable the EUT transmit continuously.
4. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d).
5. Measure and record the results in the test report.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

3.4.4 Test Setup

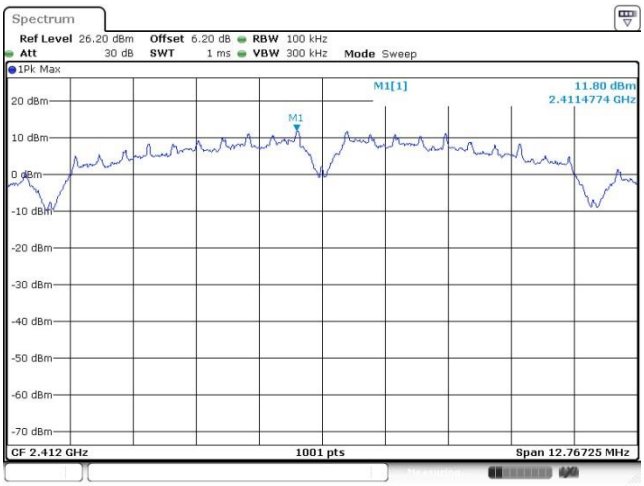


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

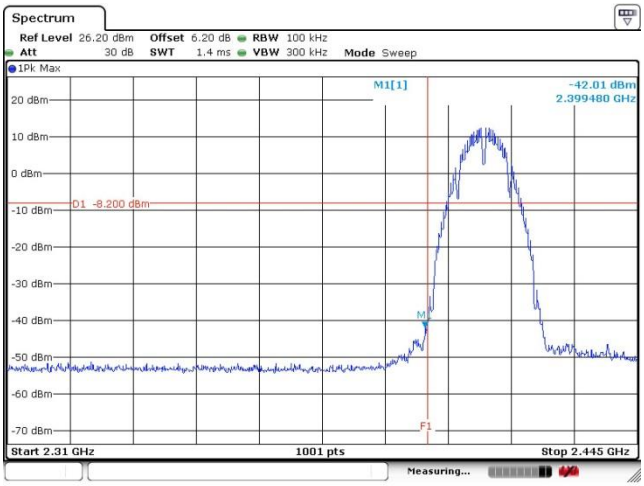
Test Engineer :	Aly Cao	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

Test Mode :	802.11b	**Test Channel :**	01

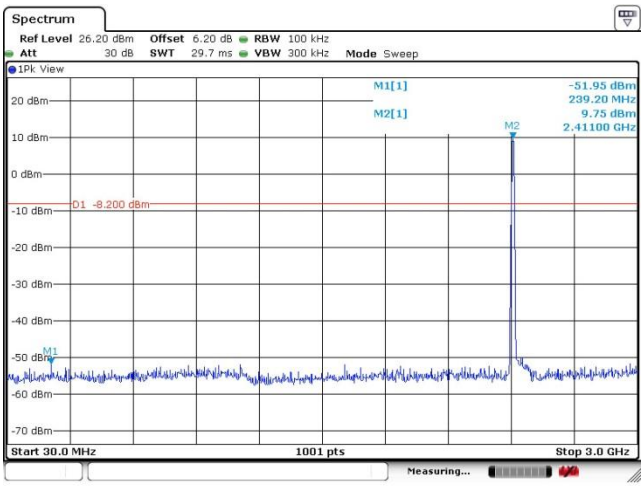
100kHz PSD reference Level



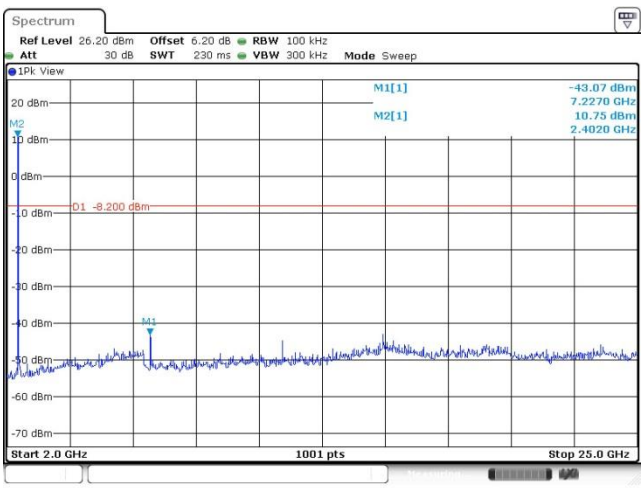
Channel Plot



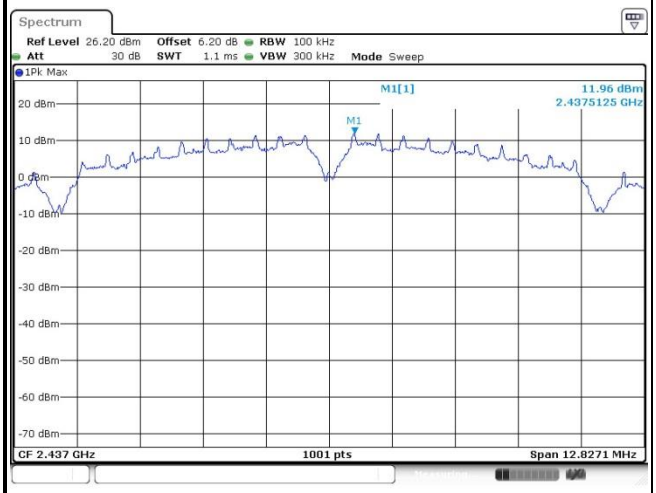
Spurious Emission 30MHz~3GHz

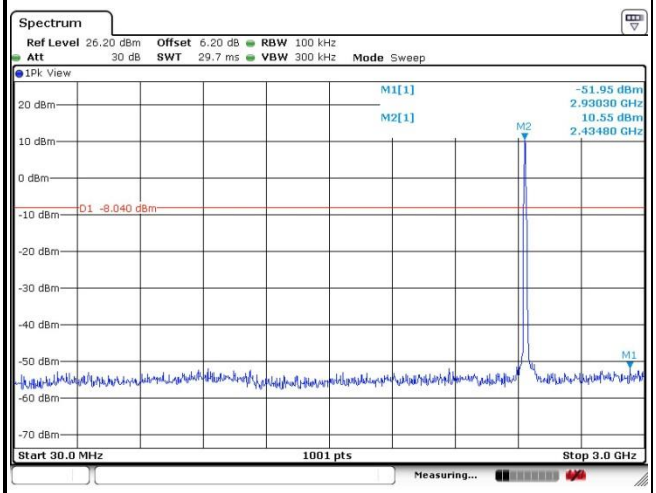
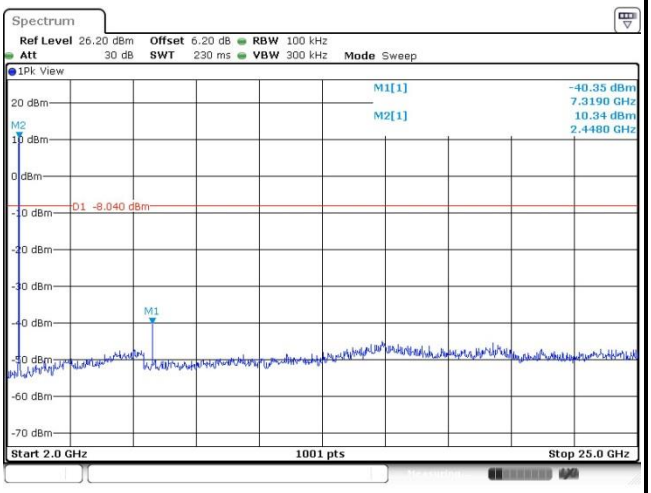


Spurious Emission 2GHz~25GHz

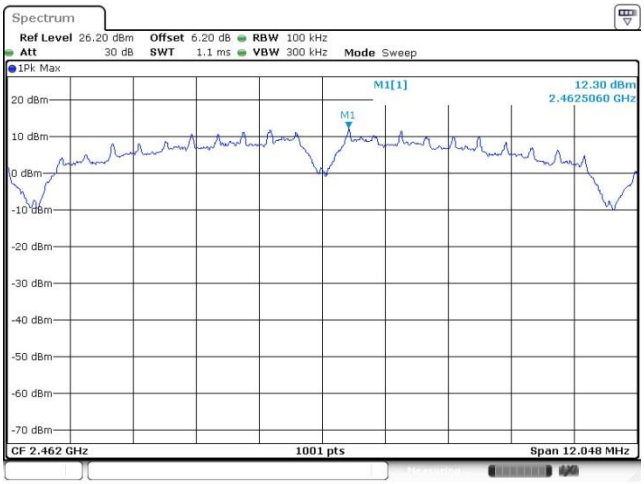
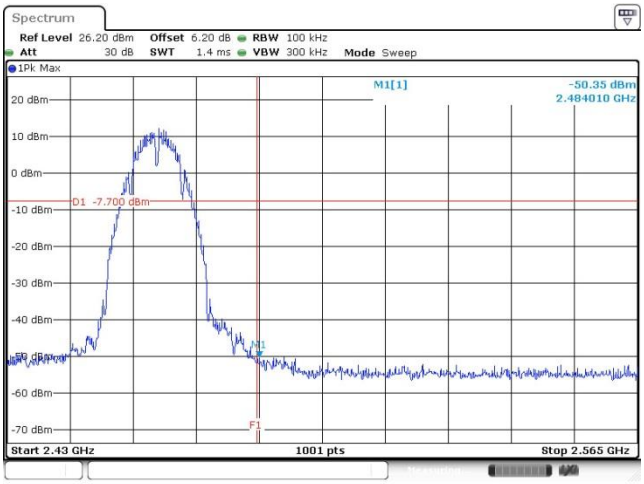
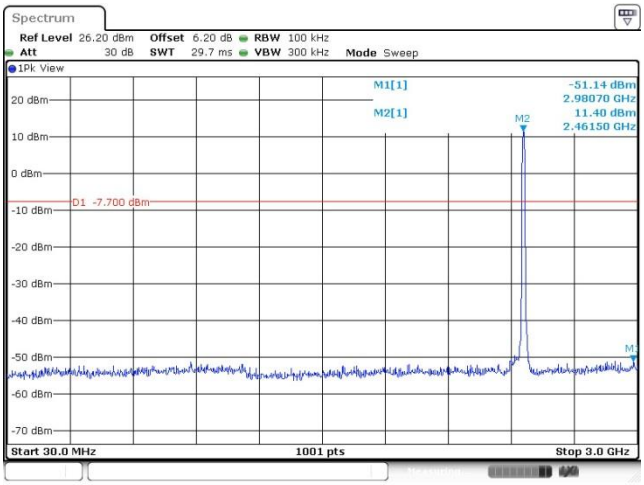
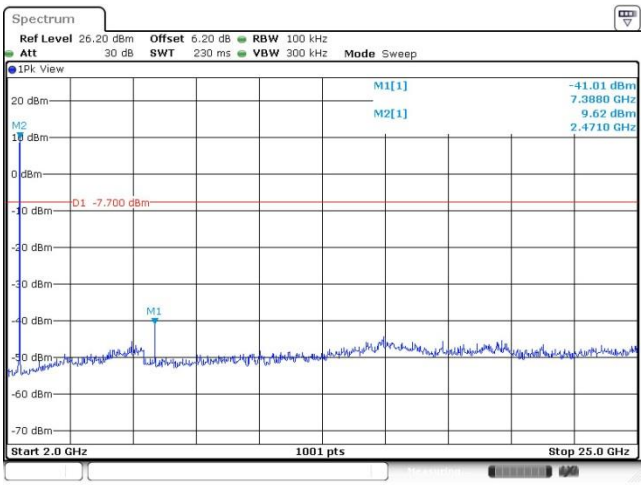


Test Mode :	802.11b	Test Channel :	06

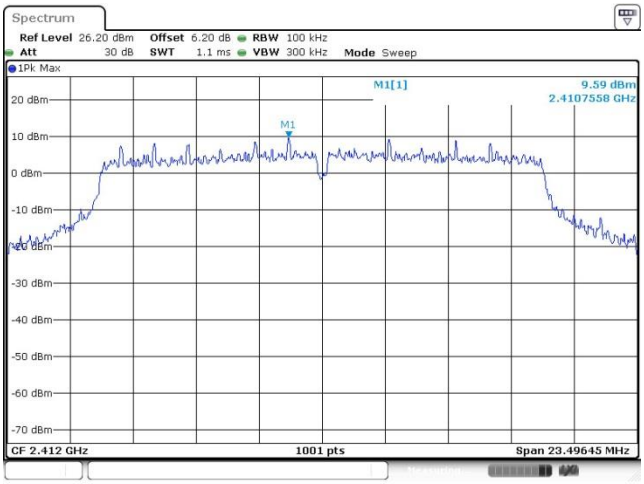
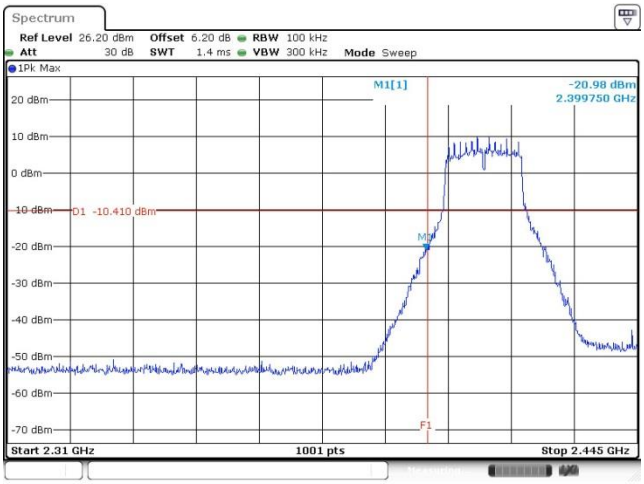
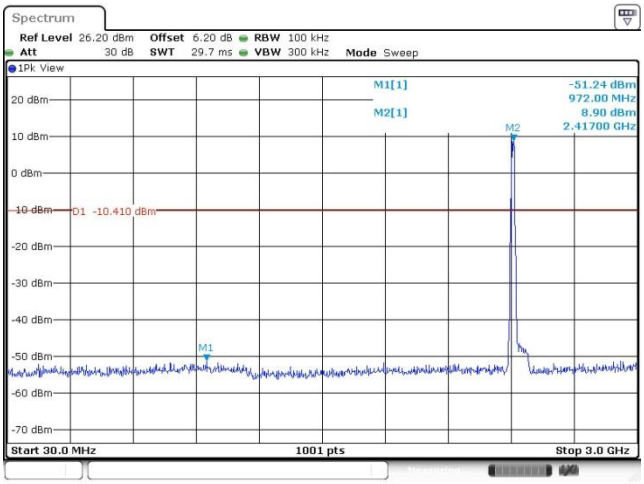
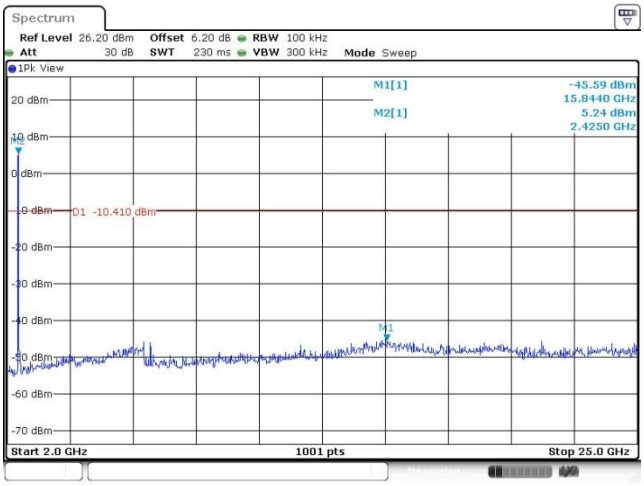
100kHz PSD reference Level	
	

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

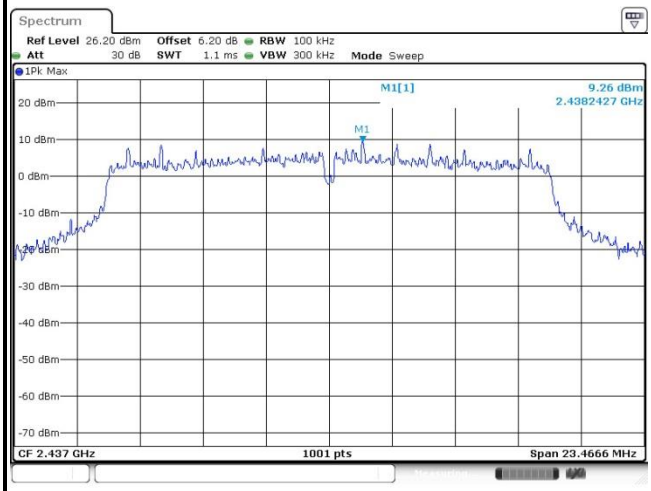
Test Mode :	802.11b	Test Channel :	11

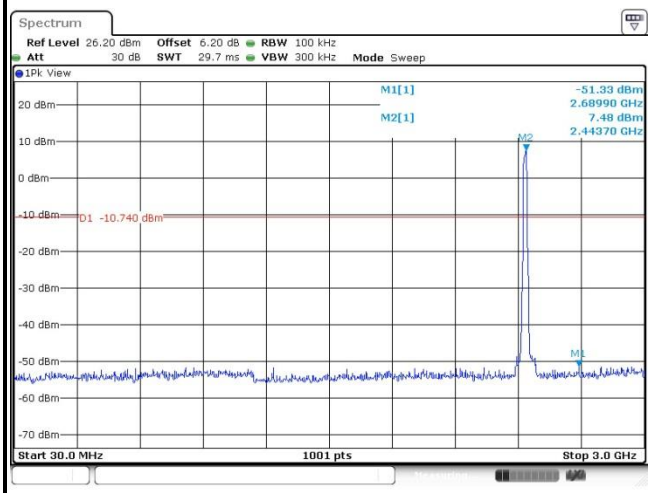
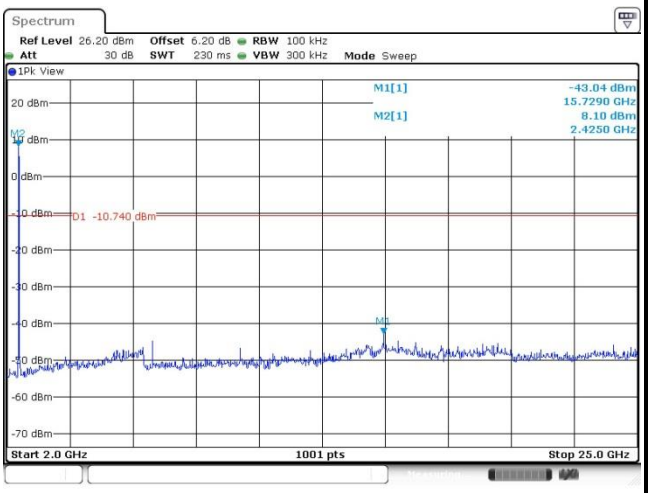
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	01

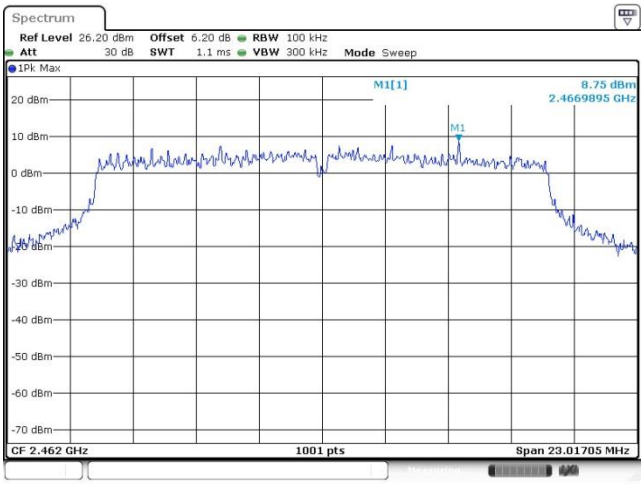
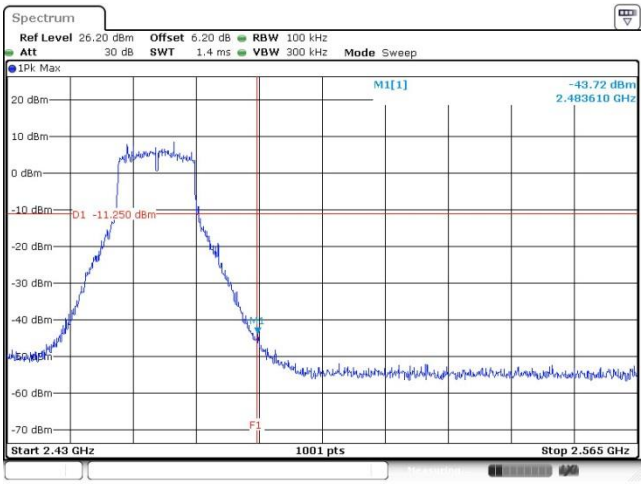
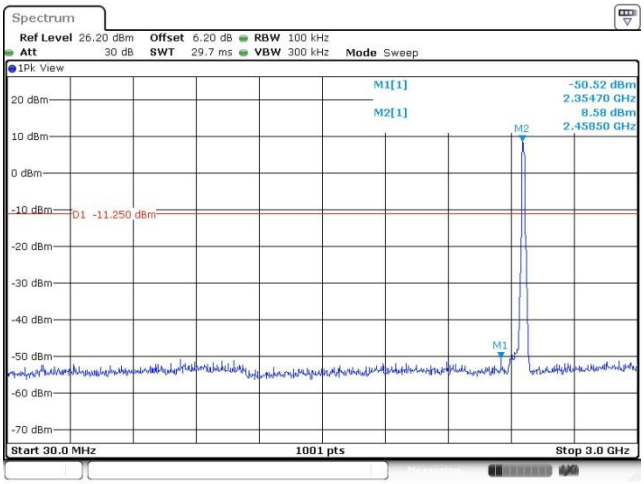
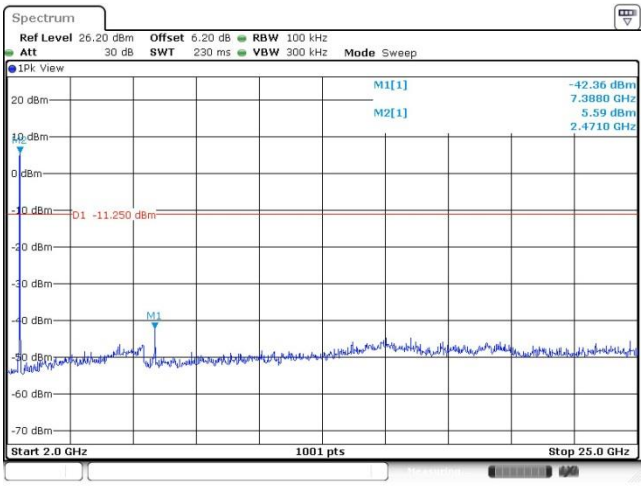
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	06

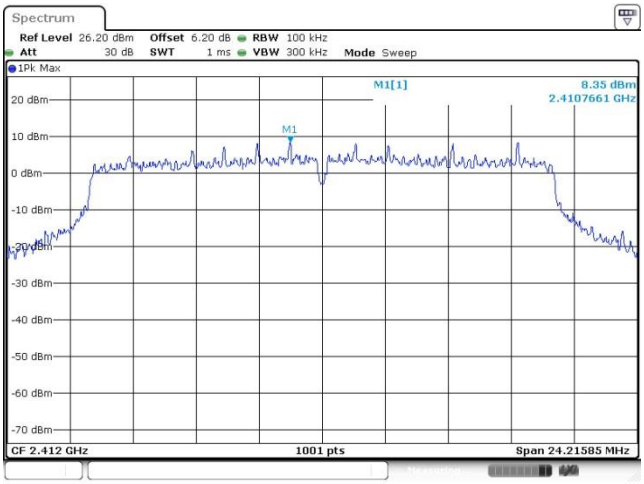
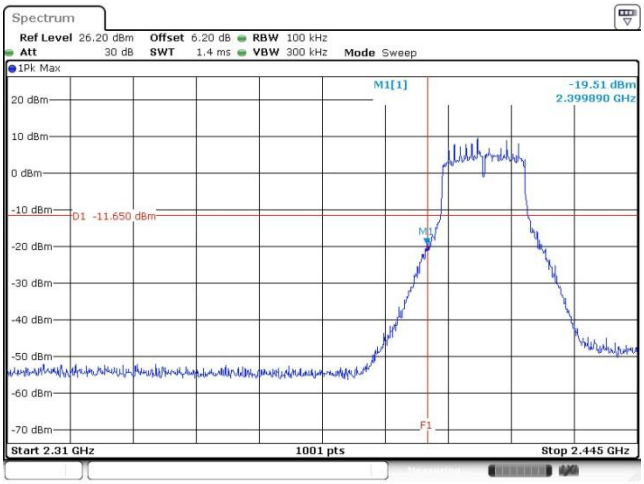
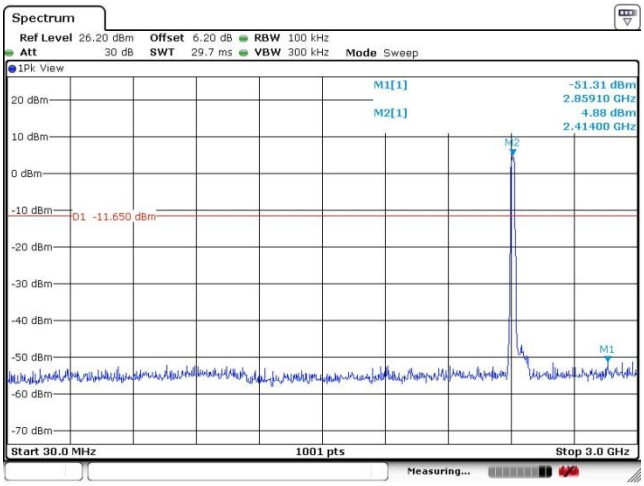
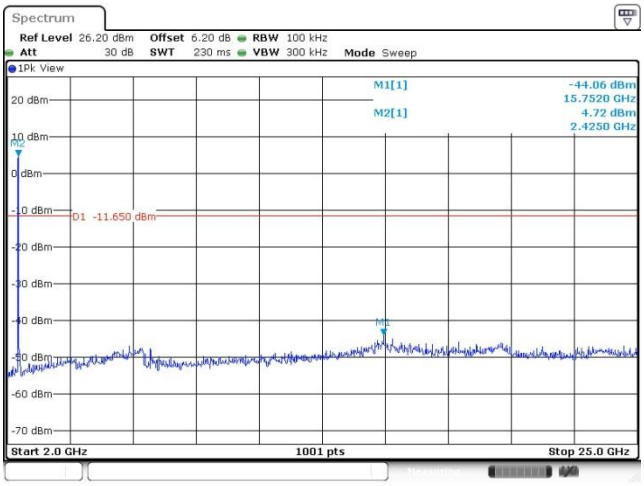
100kHz PSD reference Level	
	

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

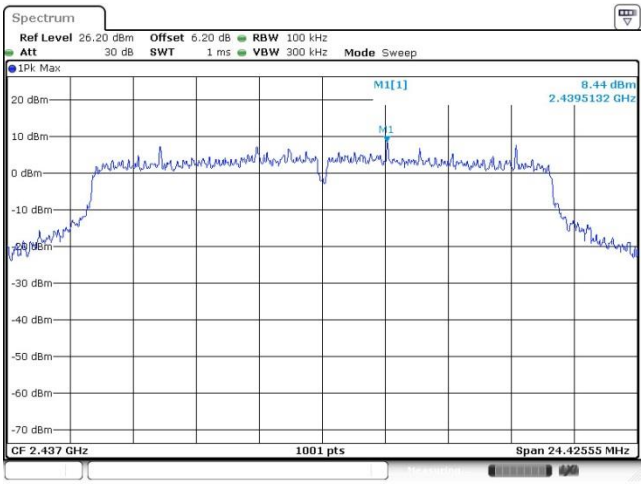
Test Mode :	802.11g	Test Channel :	11

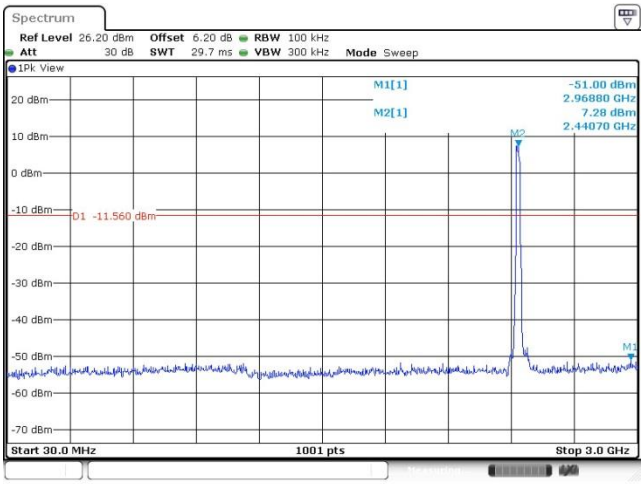
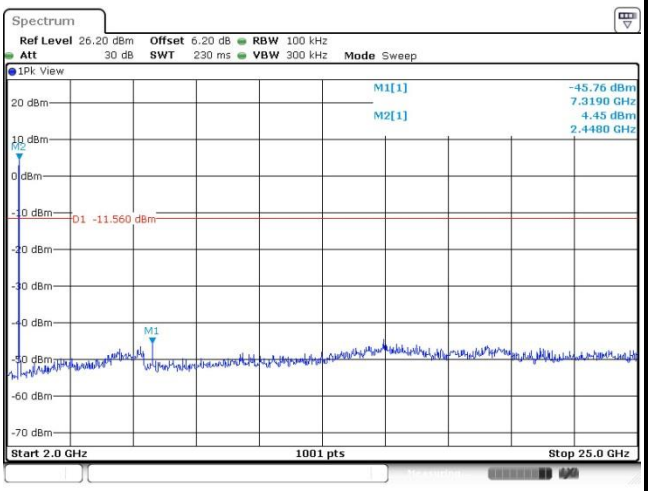
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	01

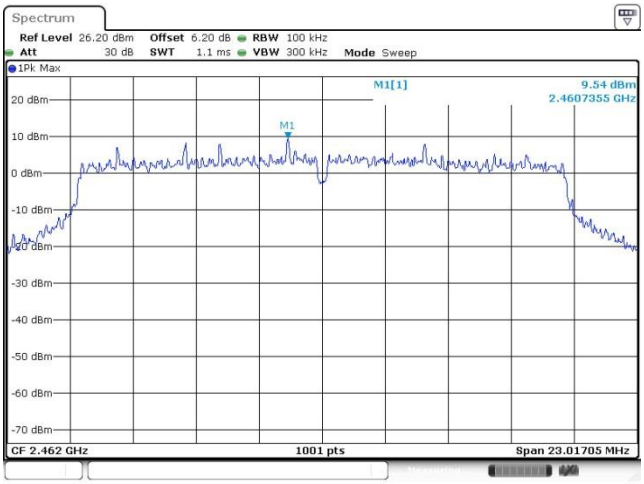
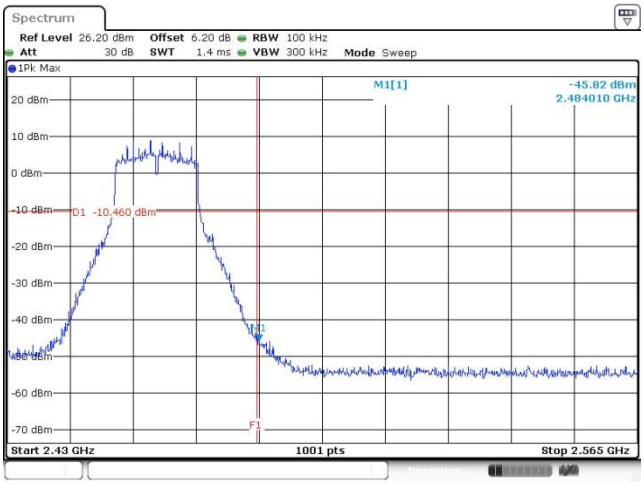
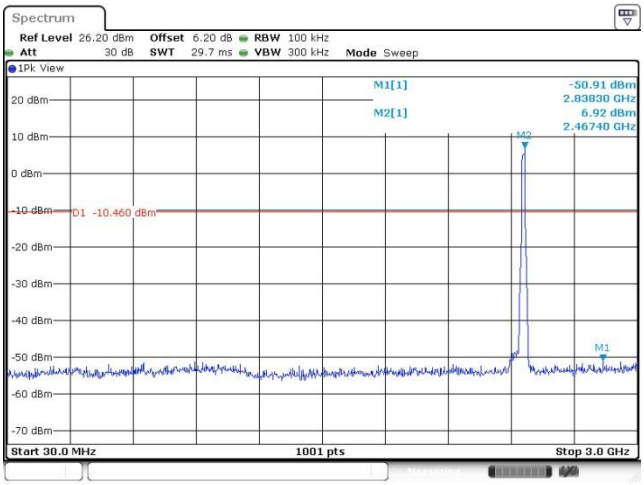
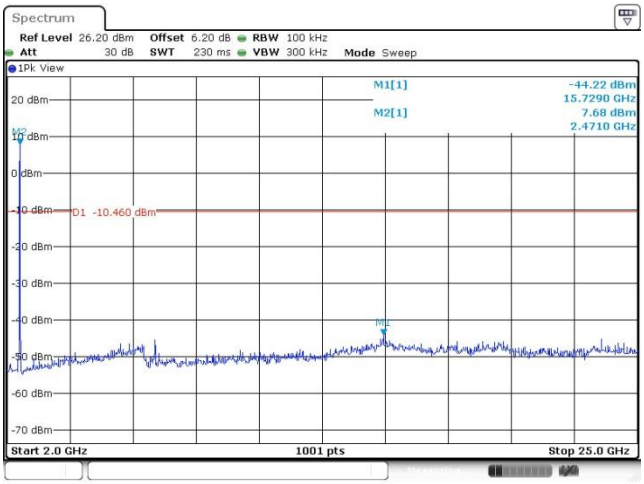
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	06

100kHz PSD reference Level	
	

Spurious Emission 30MHz~3GHz	Spurious Emission 2GHz~25GHz
	

Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

3.5 Radiated Band Edges and Spurious Emission Measurement

3.5.1 Limit of Radiated band edge and Spurious Emission Measurement

In any 100 kHz bandwidth outside the intentional radiator frequency band, all harmonics/spurious must be at least 20 dB below the highest emission level within the authorized band. If the output power of this device was measured by spectrum analyzer, the attenuation under this paragraph shall be 30 dB instead of 20 dB. In addition, radiated emissions which fall in the restricted bands must also comply with the limits as below.

Frequency (MHz)	Field Strength (microvolts/meter)	Measurement Distance (meters)
0.009 – 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3

3.5.2 Measuring Instruments

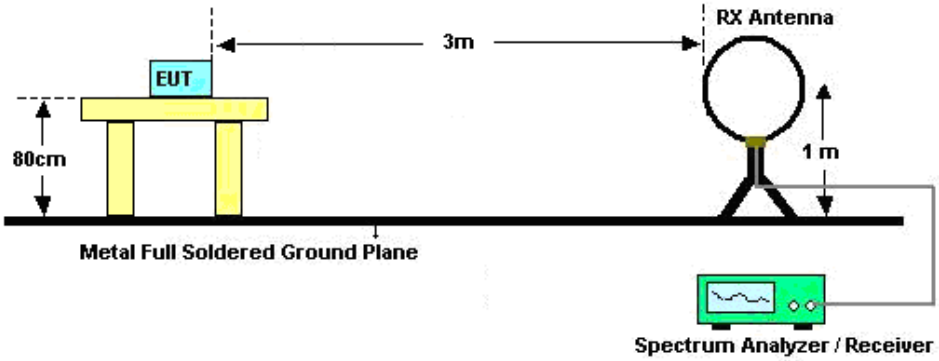
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

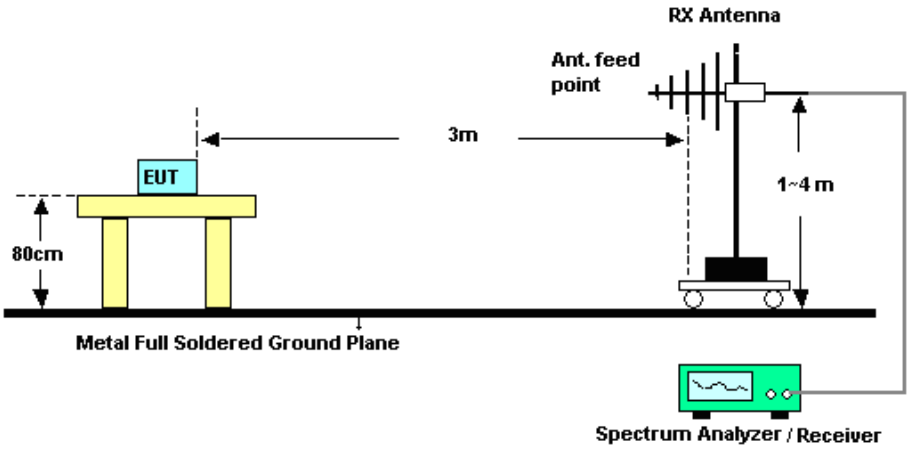
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level.
3. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
4. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
5. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than average limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
8. Use the following spectrum analyzer settings:
   (1) Span shall wide enough to fully capture the emission being measured;
   (2) Set RBW=100 kHz for f < 1 GHz; VBW ≥ RBW; Sweep = auto; Detector function = peak; Trace = max hold;
   (3) Set RBW = 1 MHz, VBW= 3MHz for f ≥ 1 GHz for peak measurement.
   For average measurement:
   - VBW = 10 Hz, when duty cycle is no less than 98 percent.
   - VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

3.5.4 Test Setup

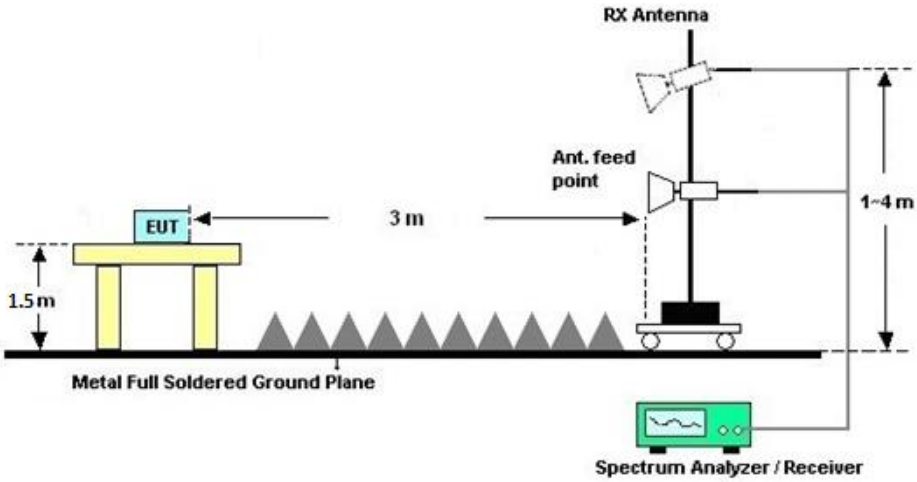
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.5.5 Test Results of Radiated Spurious Emissions (9kHz ~ 30MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.5.6 Test Result of Radiated Spurious at Band Edges

Please refer to Appendix C.

3.5.7 Duty Cycle

Please refer to Appendix D.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic)

Please refer to Appendix C.

3.6 AC Conducted Emission Measurement

3.6.1 Limit of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

Frequency of Emission (MHz)	Conducted Limit (dBµV)	
	Quasi-Peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

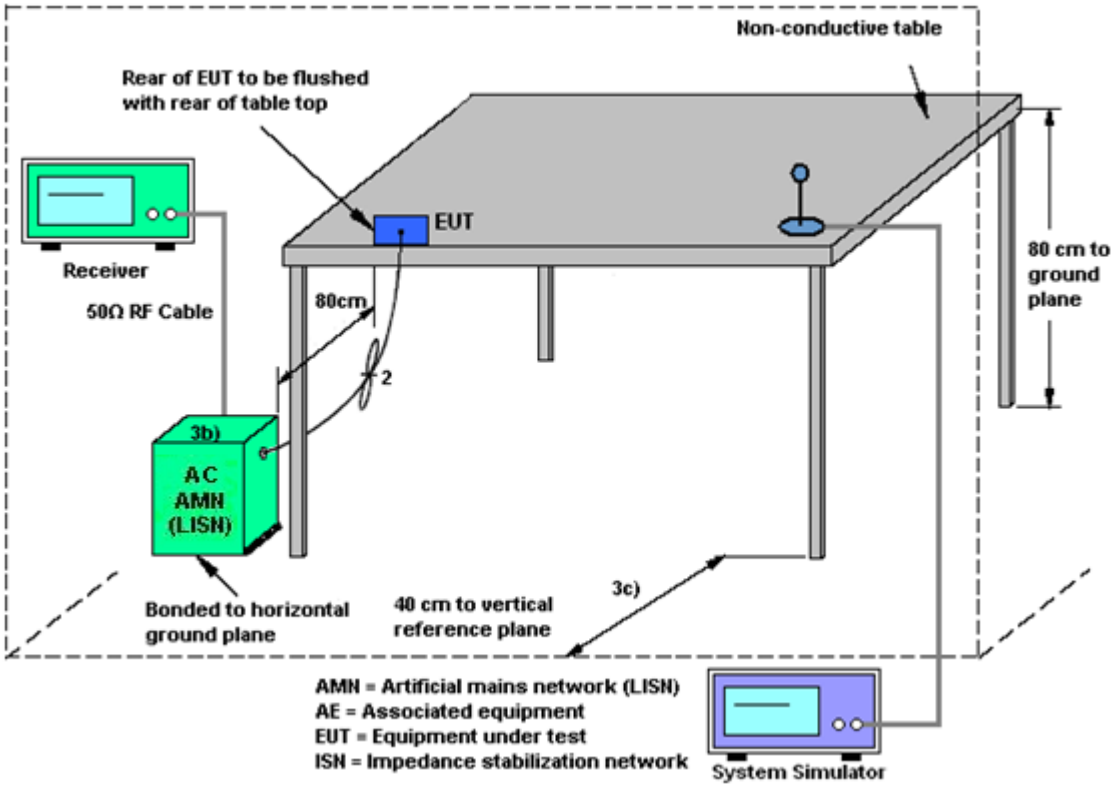
3.6.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.

3.6.3 Test Procedures

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room, and it was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF bandwidth = 9kHz) with Maximum Hold Mode.

3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

3.7 Antenna Requirements

3.7.1 Standard Applicable

If directional gain of transmitting Antennas is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi. 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 rule.

3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	Apr. 16, 2019	Nov. 25, 2019	Apr. 15, 2020	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 14, 2019	Nov. 25, 2019	Jan. 13, 2020	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 14, 2019	Nov. 25, 2019	Jan. 13, 2020	Conducted (TH01-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 16, 2019	Oct. 30, 2019	Apr. 15, 2020	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060103	9kHz~30MHz	Oct. 11, 2019	Oct. 30, 2019	Oct. 10, 2020	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060105	9kHz~30MHz	Nov. 19, 2018	Oct. 30, 2019	Nov. 18, 2019	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 11, 2019	Oct. 30, 2019	Oct. 10, 2020	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290157	3Hz~8.5GHz;Max 30dBm	Jul. 18, 2019	Nov. 20, 2019	Jul. 17, 2020	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY55150208	10Hz-44GHz	Apr. 16, 2019	Nov. 20, 2019	Apr. 18, 2020	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Oct. 18, 2019	Nov. 20, 2019	Oct. 17, 2020	Radiation (03CH06-KS)
Bilog Antenna	TeseQ	CBL6111D	44483	30MHz-1GHz	Dec. 28, 2018	Nov. 20, 2019	Dec. 27, 2019	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75959	1GHz~18GHz	Jan. 27, 2019	Nov. 20, 2019	Jan. 26, 2020	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101070	18GHz~40GHz	Jan. 05, 2019	Nov. 20, 2019	Jan. 04, 2020	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Aug. 06, 2019	Nov. 20, 2019	Aug. 05, 2020	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Aug. 16, 2019	Nov. 20, 2019	Aug. 15, 2020	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY53270203	500MHz~26.5GHz	Apr. 15, 2019	Nov. 20, 2019	Apr. 14, 2020	Radiation (03CH06-KS)
Amplifier	MITEQ	TTA1840-35-HG	2014749	18~40GHz	Jan. 14, 2019	Nov. 20, 2019	Jan. 13, 2020	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Nov. 20, 2019	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Nov. 20, 2019	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Nov. 20, 2019	NCR	Radiation (03CH06-KS)

NCR: No Calibration Required

5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Conducted Emission Measurement (150kHz ~ 30MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.9dB**

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0dB**

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0dB**

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.0dB**

Appendix A. Conducted Test Results

Report Number : FR9O0912C

A1 - DTS Part

Test Engineer:	Aly Cao	Temperature:	21~25	°C
Test Date:	2019/11/25	Relative Humidity:	51~54	%

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band								
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
11b	1Mbps	1	1	2412	13.99	8.51	0.50	Pass
11b	1Mbps	1	6	2437	13.89	8.55	0.50	Pass
11b	1Mbps	1	11	2462	13.89	8.03	0.50	Pass
11g	6Mbps	1	1	2412	17.73	15.66	0.50	Pass
11g	6Mbps	1	6	2437	17.68	15.64	0.50	Pass
11g	6Mbps	1	11	2462	17.53	15.34	0.50	Pass
HT20	MCS0	1	1	2412	18.83	16.14	0.50	Pass
HT20	MCS0	1	6	2437	18.58	16.28	0.50	Pass
HT20	MCS0	1	11	2462	18.63	15.34	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
11b	1Mbps	1	1	2412	23.12	30.00	-5.00	18.12	36.00	Pass
11b	1Mbps	1	6	2437	23.22	30.00	-5.00	18.22	36.00	Pass
11b	1Mbps	1	11	2462	23.34	30.00	-5.00	18.34	36.00	Pass
11g	6Mbps	1	1	2412	24.44	30.00	-5.00	19.44	36.00	Pass
11g	6Mbps	1	6	2437	24.64	30.00	-5.00	19.64	36.00	Pass
11g	6Mbps	1	11	2462	24.62	30.00	-5.00	19.62	36.00	Pass
HT20	MCS0	1	1	2412	23.93	30.00	-5.00	18.93	36.00	Pass
HT20	MCS0	1	6	2437	24.06	30.00	-5.00	19.06	36.00	Pass
HT20	MCS0	1	11	2462	24.18	30.00	-5.00	19.18	36.00	Pass

TEST RESULTS DATA
Average Power Table
(Reporting Only)

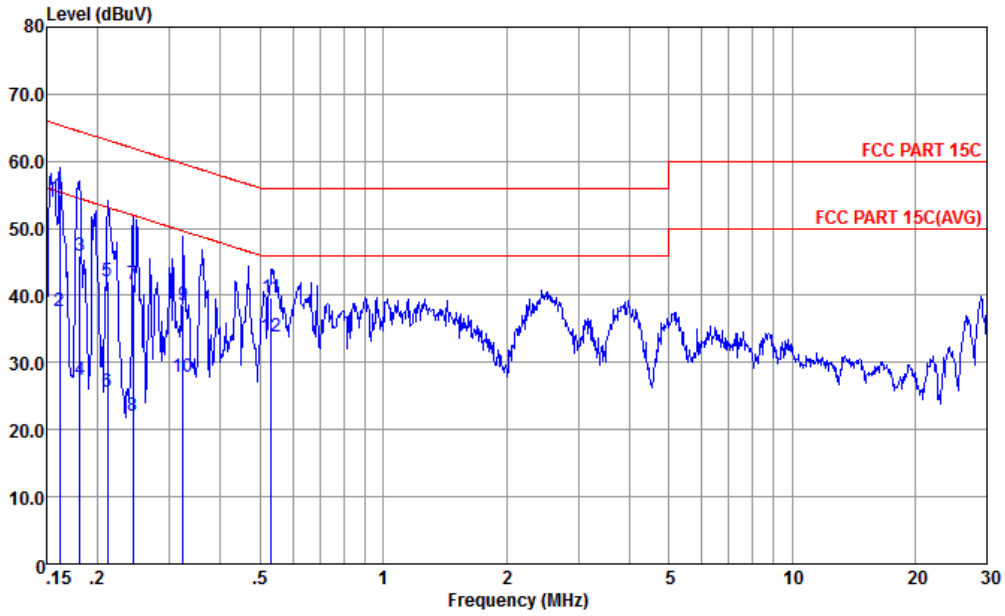
2.4GHz Band						
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power (dBm)
11b	1Mbps	1	1	2412	0.05	20.78
11b	1Mbps	1	6	2437	0.05	20.84
11b	1Mbps	1	11	2462	0.05	20.92
11g	6Mbps	1	1	2412	0.08	20.07
11g	6Mbps	1	6	2437	0.08	20.20
11g	6Mbps	1	11	2462	0.08	20.17
HT20	MCS0	1	1	2412	0.08	19.32
HT20	MCS0	1	6	2437	0.08	19.42
HT20	MCS0	1	11	2462	0.08	19.52

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-3.24	-5.00	8.00	Pass
11b	1Mbps	1	6	2437	-1.94	-5.00	8.00	Pass
11b	1Mbps	1	11	2462	-2.52	-5.00	8.00	Pass
11g	6Mbps	1	1	2412	-6.31	-5.00	8.00	Pass
11g	6Mbps	1	6	2437	-5.54	-5.00	8.00	Pass
11g	6Mbps	1	11	2462	-5.68	-5.00	8.00	Pass
HT20	MCS0	1	1	2412	-6.60	-5.00	8.00	Pass
HT20	MCS0	1	6	2437	-6.98	-5.00	8.00	Pass
HT20	MCS0	1	11	2462	-6.75	-5.00	8.00	Pass

Appendix B. AC Conducted Emission Test Results

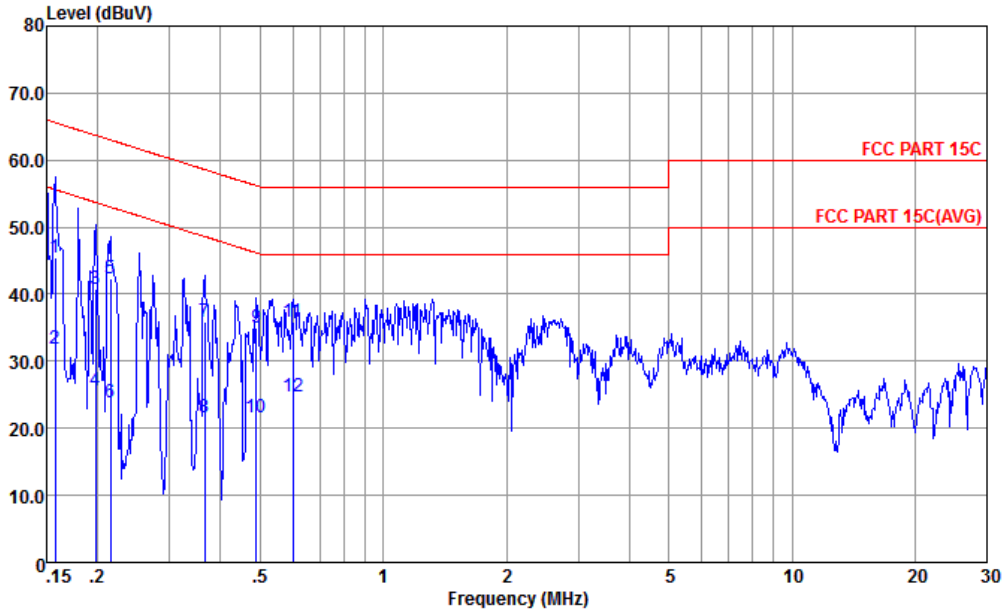
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line



Site : CO01-KS
Condition : FCC PART 15C LISN-L-181119-060105 LINE

		Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1	*	0.162	55.15	-10.23	65.38	44.60	0.10	10.45	QP
2		0.162	37.75	-17.63	55.38	27.20	0.10	10.45	Average
3		0.181	46.01	-18.45	64.46	35.50	0.11	10.40	QP
4		0.181	27.41	-27.05	54.46	16.90	0.11	10.40	Average
5		0.212	42.08	-21.06	63.14	31.60	0.12	10.36	QP
6		0.212	25.58	-27.56	53.14	15.10	0.12	10.36	Average
7		0.244	41.67	-20.28	61.95	31.20	0.13	10.34	QP
8		0.244	22.07	-29.88	51.95	11.60	0.13	10.34	Average
9		0.323	38.64	-20.98	59.62	28.19	0.15	10.30	QP
10		0.323	27.94	-21.68	49.62	17.49	0.15	10.30	Average
11		0.532	39.61	-16.39	56.00	29.20	0.17	10.24	QP
12		0.532	33.91	-12.09	46.00	23.50	0.17	10.24	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral



Site : CO01-KS
Condition : FCC PART 15C LISN-N-181119-060105 NEUTRAL

	Freq	Level	Over Limit	Limit Line	Read Level	LISN Factor	Cable Loss	Remark
	MHz	dBuV	dB	dBuV	dBuV	dB	dB	
1 *	0.157	45.54	-20.06	65.60	34.90	0.18	10.46	QP
2	0.157	31.84	-23.76	55.60	21.20	0.18	10.46	Average
3	0.198	40.74	-22.97	63.71	30.20	0.17	10.37	QP
4	0.198	25.64	-28.07	53.71	15.10	0.17	10.37	Average
5	0.215	42.43	-20.58	63.01	31.91	0.17	10.35	QP
6	0.215	23.83	-29.18	53.01	13.31	0.17	10.35	Average
7	0.365	35.94	-22.67	58.61	25.50	0.16	10.28	QP
8	0.365	21.64	-26.97	48.61	11.20	0.16	10.28	Average
9	0.489	34.89	-21.30	56.19	24.50	0.15	10.24	QP
10	0.489	21.69	-24.50	46.19	11.30	0.15	10.24	Average
11	0.601	35.88	-20.12	56.00	25.50	0.14	10.24	QP
12	0.601	24.68	-21.32	46.00	14.30	0.14	10.24	Average

Note:

1. Level(dBμV) = Read Level(dBμV) + LISN Factor(dB) + Cable Loss(dB)
2. Over Limit(dB) = Level(dBμV) – Limit Line(dBμV)

Appendix C. Radiated Spurious Emission

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Band Edge @ 3m)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Cable Loss	Preamp Factor	Ant Pos	Table Pos	Peak Avg.	Pol.
1		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2347.44	54.73	-19.27	74	47.51	32.1	6.55	31.43	100	35	P	H
		2389.95	43.83	-10.17	54	36.65	32	6.59	31.41	100	35	A	H
	*	2412	107.45	-	-	100.14	32.13	6.59	31.41	100	35	P	H
	*	2410	104.42	-	-	97.11	32.13	6.59	31.41	100	35	A	H
		2386.05	55.28	-18.72	74	48.11	32	6.59	31.42	305	125	P	V
		2389.95	43.53	-10.47	54	36.35	32	6.59	31.41	305	125	A	V
	*	2412	103.87	-	-	96.56	32.13	6.59	31.41	305	125	P	V
	*	2410	100.82	-	-	93.51	32.13	6.59	31.41	305	125	A	V
802.11b CH 11 2462MHz		2492.26	55.78	-18.22	74	48.15	32.2	6.81	31.38	300	29	P	H
		2487.46	44.57	-9.43	54	36.88	32.27	6.81	31.39	300	29	A	H
	*	2462	106.51	-	-	98.88	32.33	6.7	31.4	300	29	P	H
	*	2460	103.5	-	-	95.87	32.33	6.7	31.4	300	29	A	H
		2489.62	55.2	-18.8	74	47.58	32.2	6.81	31.39	358	119	P	V
		2487.16	44.27	-9.73	54	36.58	32.27	6.81	31.39	358	119	A	V
	*	2462	104.56	-	-	96.93	32.33	6.7	31.4	358	119	P	V
	*	2464	101.42	-	-	93.68	32.33	6.81	31.4	358	119	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11b (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	38.26	-35.74	74	55.76	34.2	9.9	61.6	300	0	P	H
		4824	36.99	-37.01	74	54.49	34.2	9.9	61.6	300	360	P	V
802.11b CH 06 2437MHz		4872	38.85	-35.15	74	56.43	34.13	9.9	61.61	300	0	P	H
		7308	39.62	-34.38	74	53.5	36.6	11.85	62.33	300	0	P	H
		4872	38.39	-35.61	74	55.97	34.13	9.9	61.61	300	360	P	V
		7308	39.02	-34.98	74	52.9	36.6	11.85	62.33	300	360	P	V
802.11b CH 11 2462MHz		4926	38.78	-35.22	74	56.4	34.1	9.91	61.63	300	0	P	H
		7386	39.35	-34.65	74	53.19	36.5	12.03	62.37	300	0	P	H
		4926	38.75	-35.25	74	56.37	34.1	9.91	61.63	300	360	P	V
		7386	39.3	-34.7	74	53.14	36.5	12.03	62.37	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.69	56.6	-17.4	74	49.43	32	6.59	31.42	100	32	P	H
		2389.95	45.92	-8.08	54	38.74	32	6.59	31.41	100	32	A	H
	*	2410	109.22	-	-	101.91	32.13	6.59	31.41	100	32	P	H
	*	2410	100.42	-	-	93.11	32.13	6.59	31.41	100	32	A	H
		2358.75	55.32	-18.68	74	48.13	32.07	6.55	31.43	308	121	P	V
		2389.95	44.21	-9.79	54	37.03	32	6.59	31.41	308	121	A	V
	*	2410	105.56	-	-	98.25	32.13	6.59	31.41	308	121	P	V
	*	2414	97.44	-	-	90.13	32.13	6.59	31.41	308	121	A	V
802.11g CH 11 2462MHz		2483.74	58.92	-15.08	74	51.23	32.27	6.81	31.39	100	34	P	H
		2483.5	47.75	-6.25	54	40.06	32.27	6.81	31.39	100	34	A	H
	*	2460	108.45	-	-	100.82	32.33	6.7	31.4	100	34	P	H
	*	2464	100.09	-	-	92.35	32.33	6.81	31.4	100	34	A	H
		2483.56	55.98	-18.02	74	48.29	32.27	6.81	31.39	264	92	P	V
		2483.5	45.21	-8.79	54	37.52	32.27	6.81	31.39	264	92	A	V
	*	2460	105.77	-	-	98.14	32.33	6.7	31.4	264	92	P	V
	*	2460	97.77	-	-	90.14	32.33	6.7	31.4	264	92	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11g (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4824	36.56	-37.44	74	54.06	34.2	9.9	61.6	300	0	P	H
		4824	36.48	-37.52	74	53.98	34.2	9.9	61.6	300	360	P	V
802.11g CH 06 2437MHz		4872	39.26	-34.74	74	56.84	34.13	9.9	61.61	300	0	P	H
		7308	39.05	-34.95	74	52.93	36.6	11.85	62.33	300	0	P	H
		4872	36.98	-37.02	74	54.56	34.13	9.9	61.61	300	360	P	V
		7308	39.01	-34.99	74	52.89	36.6	11.85	62.33	300	360	P	V
802.11g CH 11 2462MHz		4926	37.09	-36.91	74	54.71	34.1	9.91	61.63	300	0	P	H
		7386	40.39	-33.61	74	54.23	36.5	12.03	62.37	300	0	P	H
		4926	36.67	-37.33	74	54.29	34.1	9.91	61.63	300	360	P	V
		7386	40.71	-33.29	74	54.55	36.5	12.03	62.37	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Band Edge @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.56	56.71	-17.29	74	49.54	32	6.59	31.42	100	37	P	H
		2389.95	45.74	-8.26	54	38.56	32	6.59	31.41	100	37	A	H
	*	2412	107.46	-	-	100.15	32.13	6.59	31.41	100	37	P	H
	*	2410	98.89	-	-	91.58	32.13	6.59	31.41	100	37	A	H
		2344.58	55.18	-18.82	74	48.01	32.1	6.5	31.43	258	100	P	V
		2389.95	44.28	-9.72	54	37.1	32	6.59	31.41	258	100	A	V
	*	2412	105.42	-	-	98.11	32.13	6.59	31.41	258	100	P	V
	*	2410	96.77	-	-	89.46	32.13	6.59	31.41	258	100	A	V
802.11n HT20 CH 11 2462MHz		2485.54	58.08	-15.92	74	50.39	32.27	6.81	31.39	300	30	P	H
		2483.5	46.79	-7.21	54	39.1	32.27	6.81	31.39	300	30	A	H
	*	2464	107.32	-	-	99.58	32.33	6.81	31.4	300	30	P	H
	*	2460	99.02	-	-	91.39	32.33	6.7	31.4	300	30	A	H
		2484.34	55.82	-18.18	74	48.13	32.27	6.81	31.39	265	91	P	V
		2483.5	45.1	-8.9	54	37.41	32.27	6.81	31.39	265	91	A	V
	*	2464	105.9	-	-	98.16	32.33	6.81	31.4	265	91	P	V
	*	2460	97.52	-	-	89.89	32.33	6.7	31.4	265	91	A	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT20 (Harmonic @ 3m)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		4824	36.47	-37.53	74	53.97	34.2	9.9	61.6	300	0	P	H
		4824	36.14	-37.86	74	53.64	34.2	9.9	61.6	300	360	P	V
802.11n HT20 CH 06 2437MHz		4872	36.61	-37.39	74	54.19	34.13	9.9	61.61	300	0	P	H
		7308	37.95	-36.05	74	51.83	36.6	11.85	62.33	300	0	P	H
		4872	36.23	-37.77	74	53.81	34.13	9.9	61.61	300	360	P	V
		7308	39.63	-34.37	74	53.51	36.6	11.85	62.33	300	360	P	V
802.11n HT20 CH 11 2462MHz		4926	36.26	-37.74	74	53.88	34.1	9.91	61.63	300	0	P	H
		7386	38.16	-35.84	74	52	36.5	12.03	62.37	300	0	P	H
		4926	35.47	-38.53	74	53.09	34.1	9.91	61.63	300	360	P	V
		7386	38.08	-35.92	74	51.92	36.5	12.03	62.37	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

Emission below 1GHz

2.4GHz WIFI 802.11g (LF)

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Cable Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
2.4GHz 802.11g LF		30.97	22.15	-17.85	40	30.65	23.52	0.58	32.6	-	-	P	H
		63.95	18.42	-21.58	40	37.35	12.58	0.81	32.32	-	-	P	H
		78.5	24.68	-15.32	40	43.46	12.7	0.89	32.37	-	-	P	H
		115.36	30.75	-12.75	43.5	43.94	17.89	1.09	32.17	100	360	P	H
		220.12	23.1	-22.9	46	38.1	15.3	1.62	31.92	-	-	P	H
		256.98	24.5	-21.5	46	35.1	19.46	1.75	31.81	-	-	P	H
		42.61	27.04	-12.96	40	41.76	17.1	0.62	32.44	100	360	P	V
		75.59	26.87	-13.13	40	45.62	12.7	0.87	32.32	-	-	P	V
		115.36	22.21	-21.29	43.5	35.4	17.89	1.09	32.17	-	-	P	V
		195.87	28.31	-15.19	43.5	43.27	15.54	1.51	32.01	-	-	P	V
		221.09	30.56	-15.44	46	45.46	15.4	1.62	31.92	-	-	P	V
		256.98	29.88	-16.12	46	40.48	19.46	1.75	31.81	-	-	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Note symbol

*	**Fundamental Frequency** which can be ignored. However, the level of any unwanted emissions shall not exceed the level of the fundamental frequency.
!	Test result is **over limit** line.
P/A	**P**eak or **A**verage
H/V	**H**orizontal or **V**ertical

A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Cable	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
2		(MHz)	(dBμV/m)	(dB)	(dBμV/m)	(dBμV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b CH 01 2412MHz		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	P	H
		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	A	H

1. Level(dBμV/m) =

Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

2. Over Limit(dB) = Level(dBμV/m) – Limit Line(dBμV/m)

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 54.51(dBμV) – 35.86 (dB)

= 55.45 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 55.45(dBμV/m) – 74(dBμV/m)

= -18.55(dB)

For Average Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Cable Loss(dB) + Read Level(dBμV) - Preamp Factor(dB)

= 32.22(dB/m) + 4.58(dB) + 42.6(dBμV) – 35.86 (dB)

= 43.54 (dBμV/m)

2. Over Limit(dB)

= Level(dBμV/m) – Limit Line(dBμV/m)

= 43.54(dBμV/m) – 54(dBμV/m)

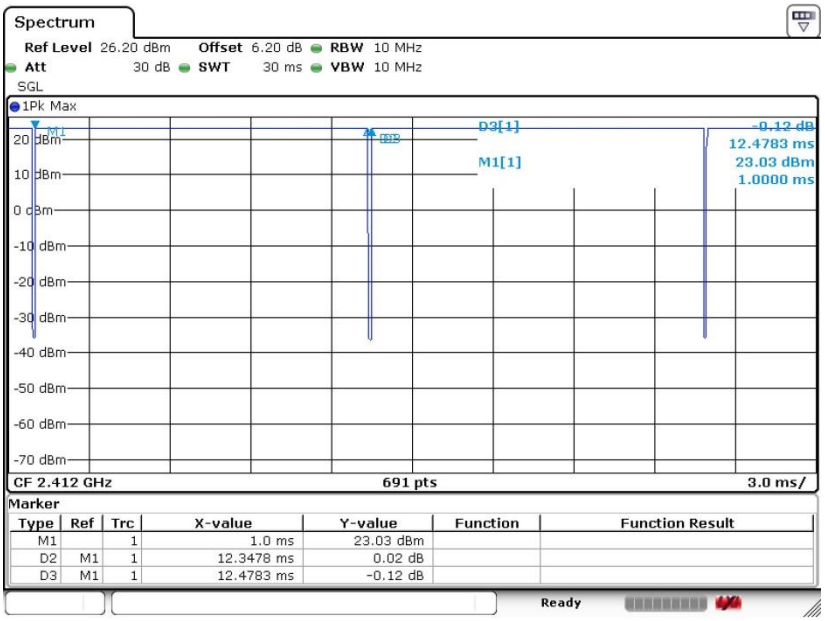
= -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".

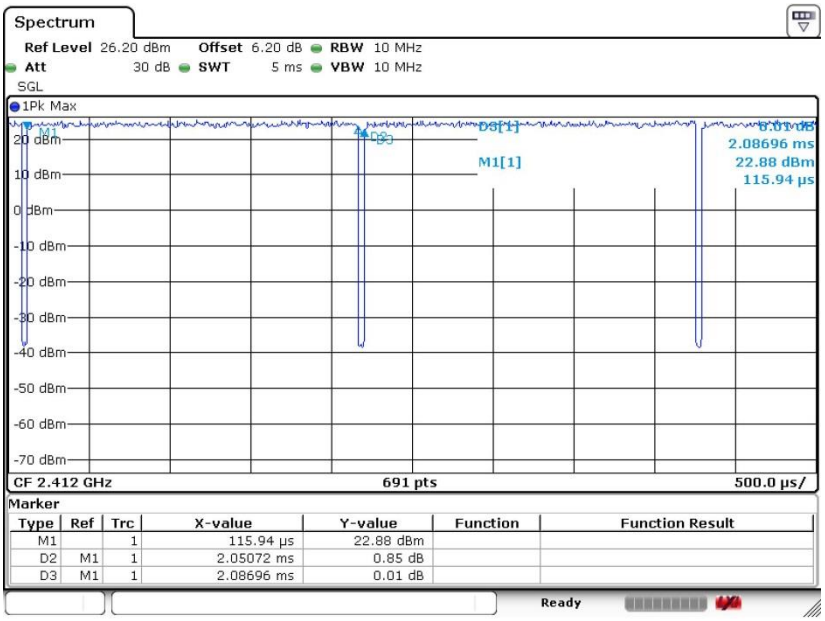
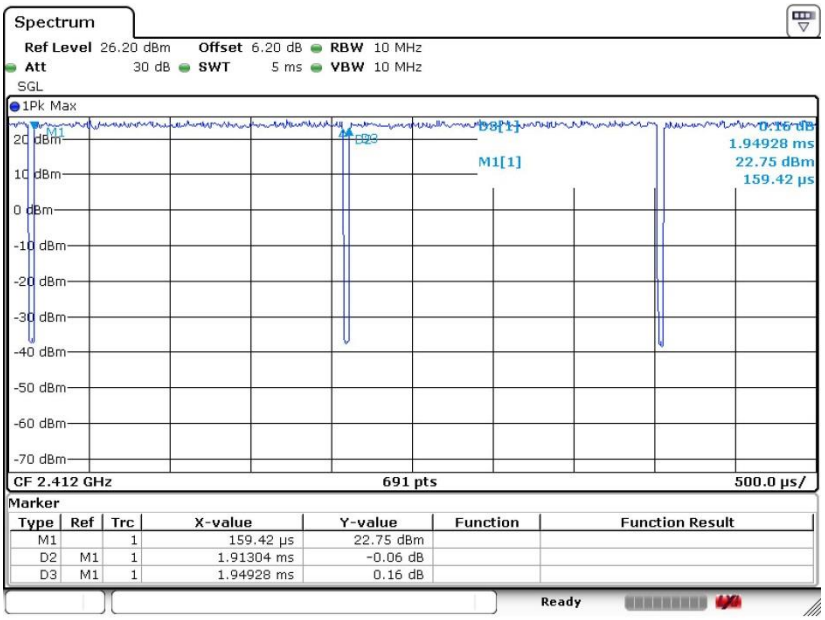
Appendix D. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	98.95	-	-	10Hz
802.11g	98.26	-	-	10Hz
802.11n HT20	98.14	-	-	10Hz

802.11b



802.11g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