FCC RF Test Report

APPLICANT	:	Lenovo(Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT	:	Portable Tablet Computer
BRAND NAME	:	Lenovo
MODEL NAME	:	Lenovo TB-J616X
FCC ID	:	O57TBJ616X
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	Jun. 01, 2021 ~ Jun. 17, 2021

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

Alexwang

Approved by: Alex Wang / 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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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR152109C	Rev. 01	Initial issue of report	Jul. 07, 2021

SUMMARY OF TEST RESULT

Report Section	FCC Rule	Description	Limit	Result	Remark
3.1	15.247(a)(2)	6dB Bandwidth	≥ 0.5MHz	Pass	-
-	-	99% Bandwidth	-	N/A	-
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 3.11 dB at 4842.000 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 10.25 dB at 0.230 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	N/A	N/A	-
Remark: Not required means after assessing, test items are not necessary to carry out.					

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits.
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

Lenovo(Shanghai) Electronics Technology Co., Ltd.
Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited
23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Portable Tablet Computer
Brand Name	Lenovo
Model Name	Lenovo TB-J616X
FCC ID	O57TBJ616X
EUT supports Radios application	GSM/WCDMA/LTE WLAN 2.4GHz 802.11b/g/n HT20/HT40 WLAN 5GHz 802.11a/n HT20/HT40 WLAN 5GHz 802.11ac VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE FM Receiver and GNSS
IMEI Code	Conducted: N/A Conduction: 865736050005480 Radiated: 865736050009011
HW Version	Lenovo Tablet TB-J616X
SW Version	Lenovo TB-J616X_RF01_210516
EUT Stage	Identical Prototype

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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 : 20.65 dBm (0.1161 W) 802.11g : 23.48 dBm (0.2228 W) 802.11n HT20 : 23.28 dBm (0.2128 W) 802.11n HT40 : 24.16 dBm (0.2606 W)
Antenna Type / Gain	IFA Antenna type with gain -2.70 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM)

1.5 Modification of EUT

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

1.6 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

1.7 Test Software

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

1.8 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
- FCC RSS-247 Issue 2
- FCC RSS-Gen Issue 5

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 (X 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
802.11n HT40	MCS0

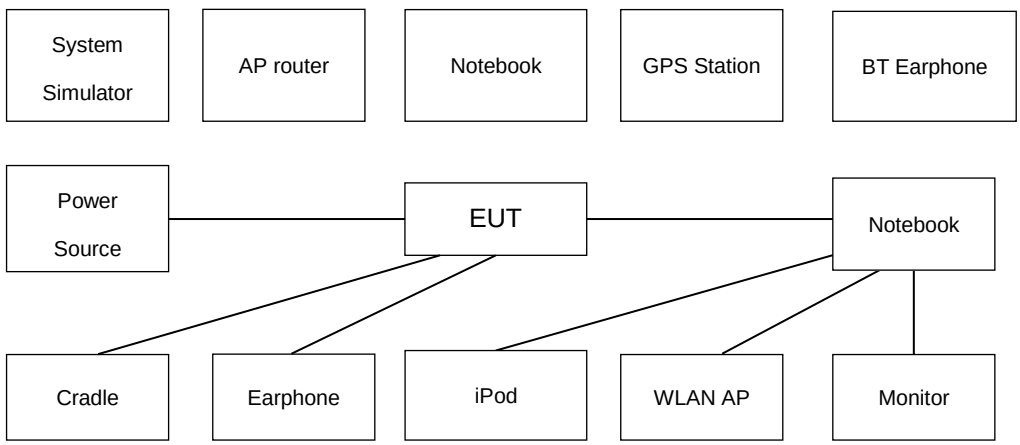
Co-location
802.11b+GSM850

Test Cases	
AC Conducted Emission	Mode 1 :GSM 850 Idle+ Bluetooth Link+ WLAN Link(2.4G)+USB Cable 2(Charging from Adapter 2)

Remark:

1. For Radiated Test Cases, The tests were performance with Adapter.

2.3 Connection Diagram of Test System



This example is connection diagram of EUT test configurations.

. For detail, please refer to test mode configuration and setup photographs for each test item.

2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	LTE Base Station	Anritus	MT8821C	N/A	N/A	Unshielded,1.8m
2.	Bluetooth Earphone	Lenovo	LBH308	N/A	N/A	N/A
3.	Notebook	Lenovo	G480	QDS-BRCM1050I	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
5.	SD Card	Kingston	8GB	N/A	N/A	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 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 5.20dB

Offset(dB) = RF cable loss(dB) + attenuator factor(dB).

= 5.20 (dB)

3 Test Result

3.1 6dB Bandwidth Measurement

3.1.1 Limit of 6dB Bandwidth

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

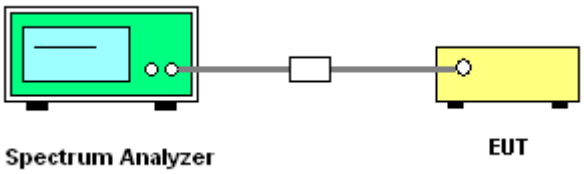
3.1.2 Measuring Instruments

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.

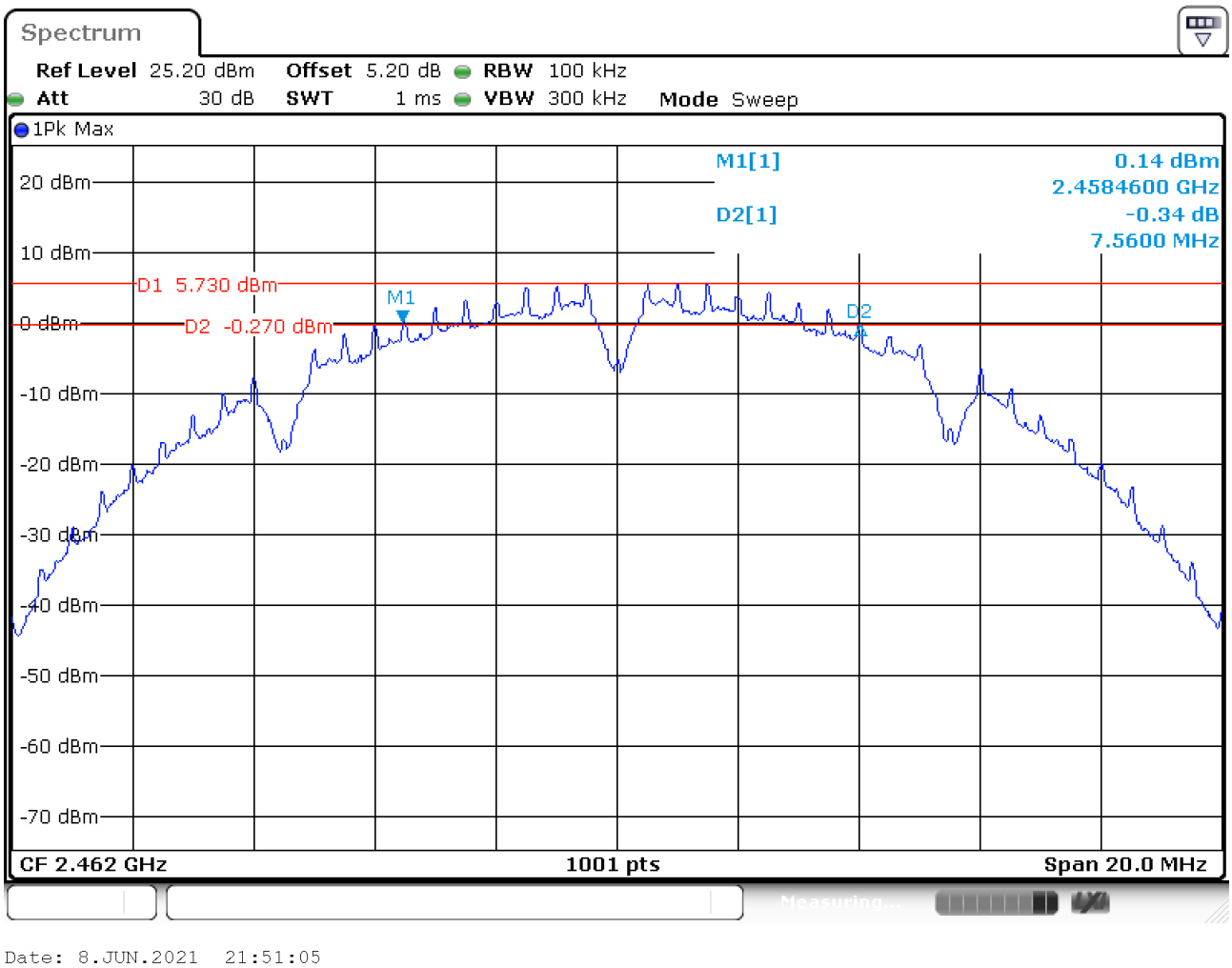
3.1.4 Test Setup



3.1.5 Test Result of 6dB Occupied Bandwidth

Please refer to Appendix A.

Minimum 6dB Bandwidth



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.

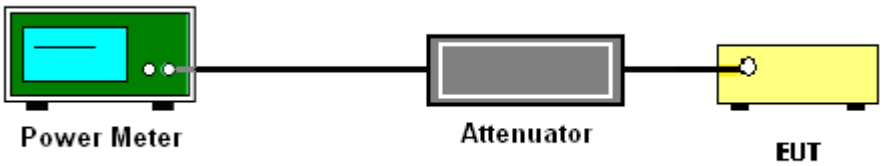
3.2.2 Measuring Instruments

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.

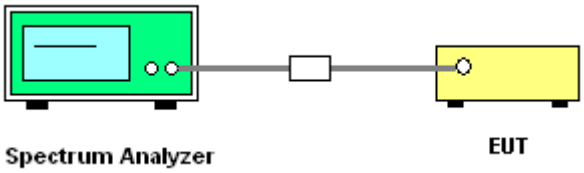
3.3.2 Measuring Instruments

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.

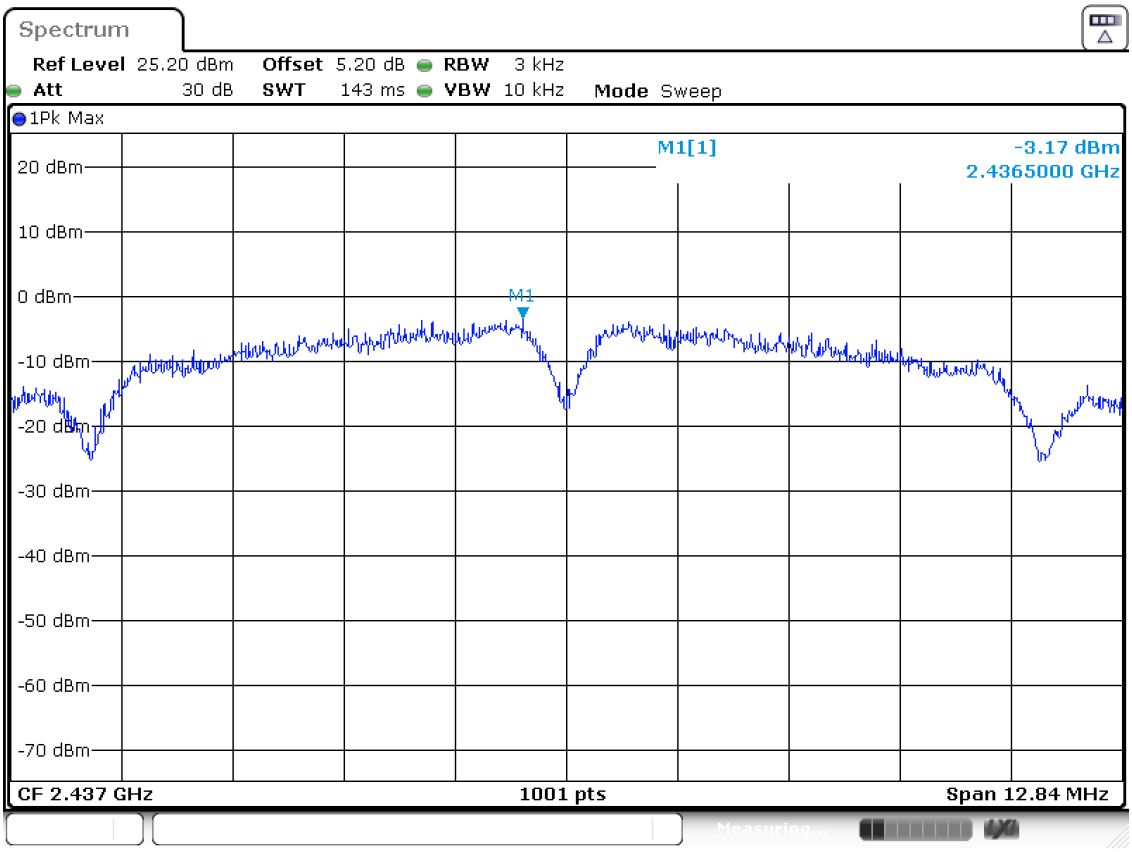
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density (dBm/3kHz)



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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.

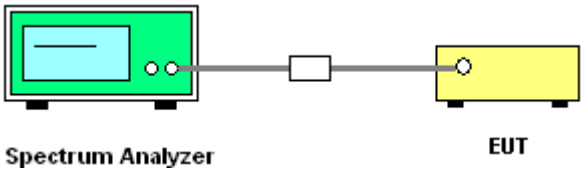
3.4.2 Measuring Instruments

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

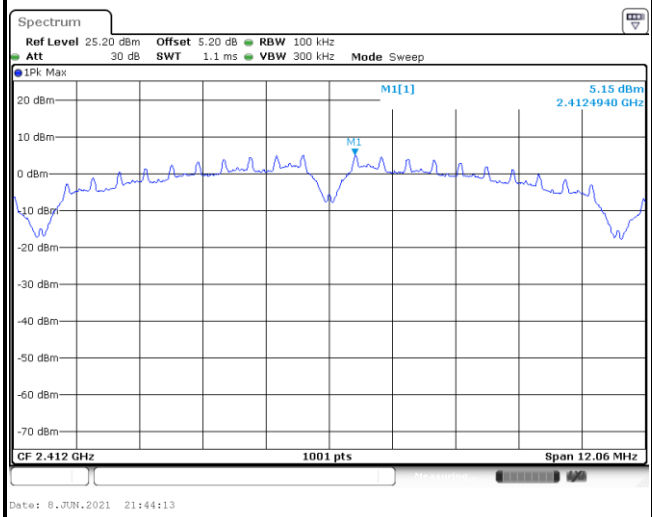


3.4.5 Test Result of Conducted Band Edges and Spurious Emission

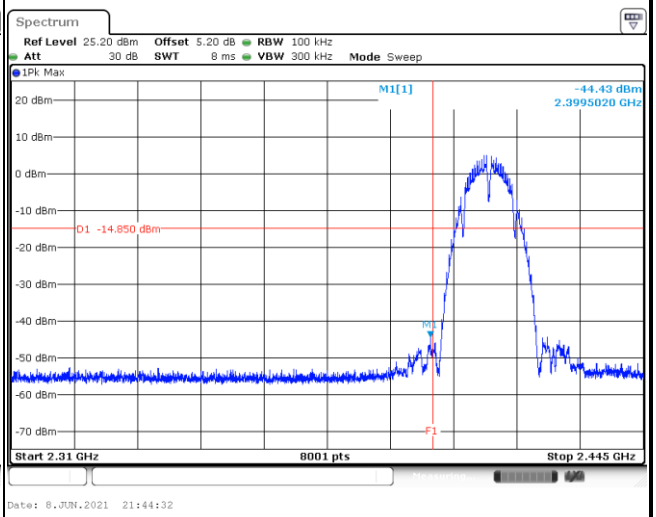
Test Engineer :	RISE LIU	**Temperature :**	21~25℃
		Relative Humidity :	51~54%

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

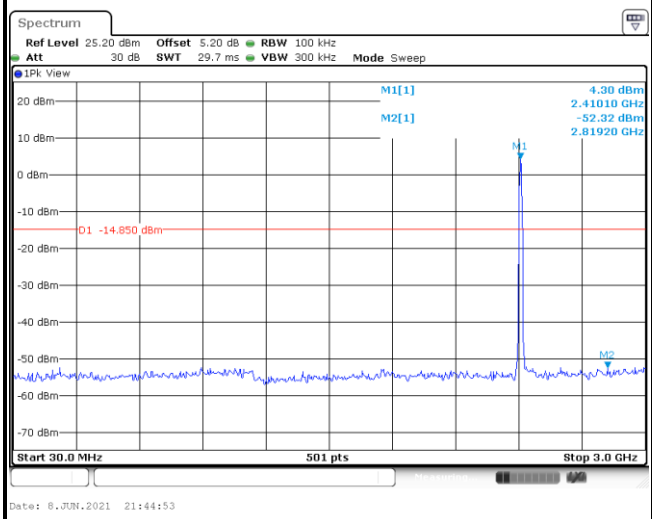
100kHz PSD reference Level



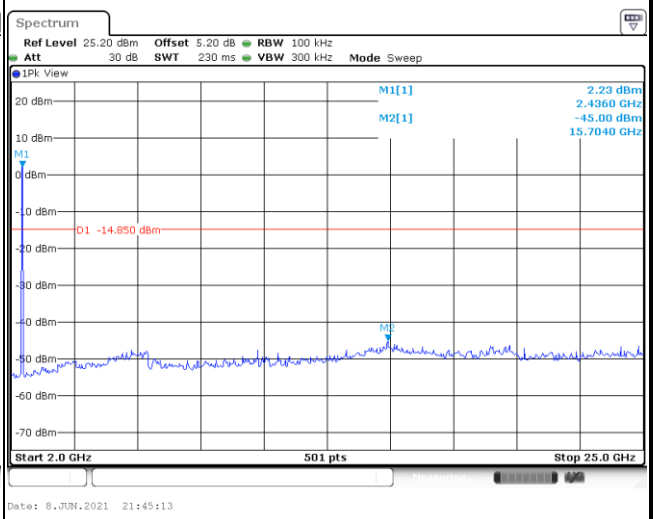
Channel Plot



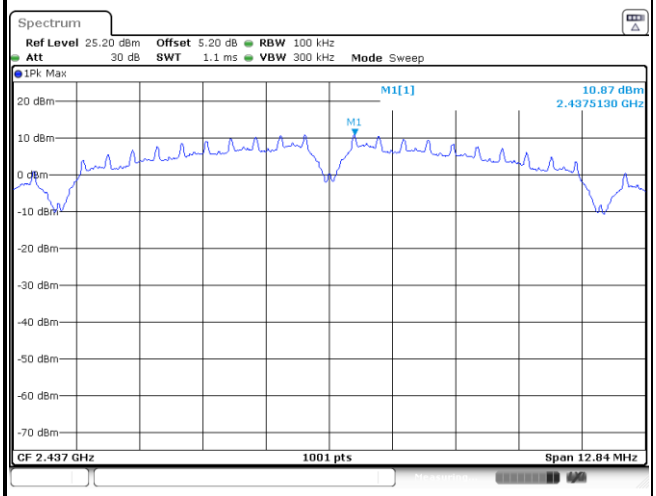
Spurious Emission 30MHz~3GHz

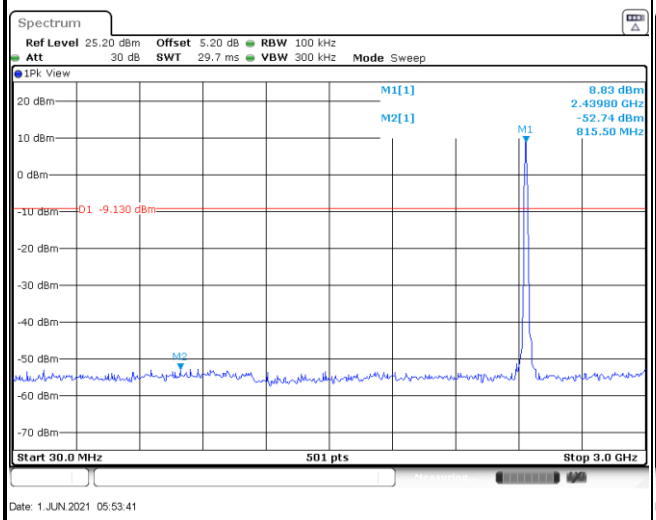
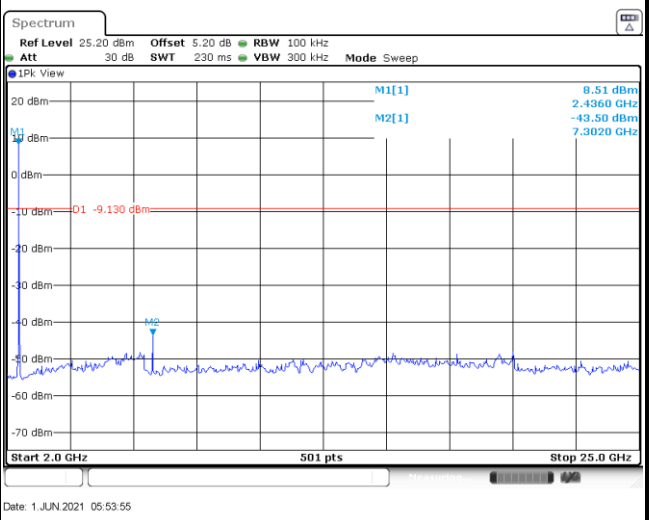


Spurious Emission 2GHz~25GHz

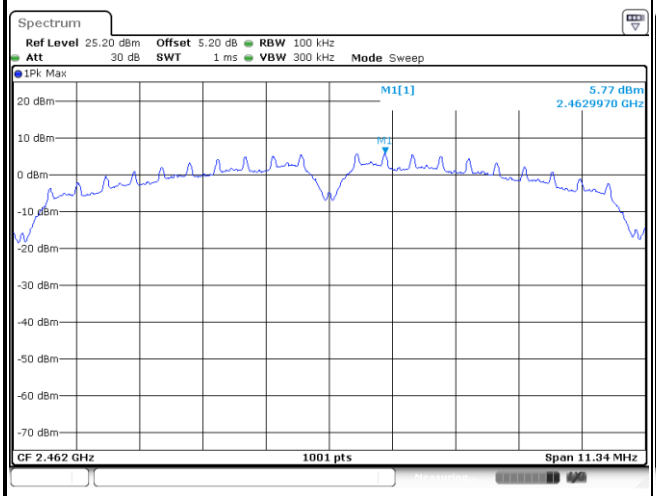
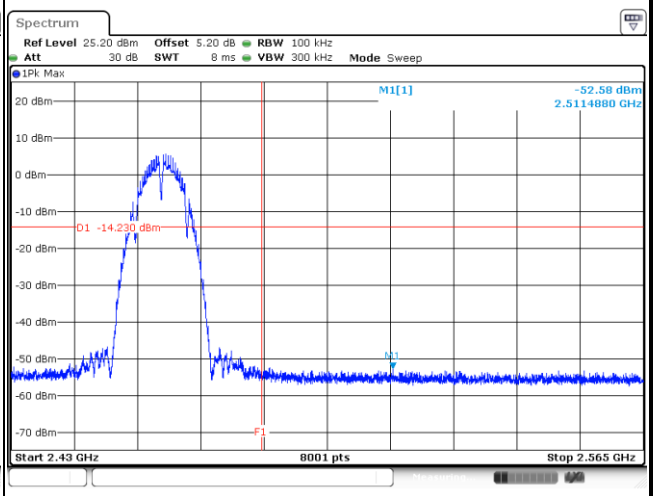
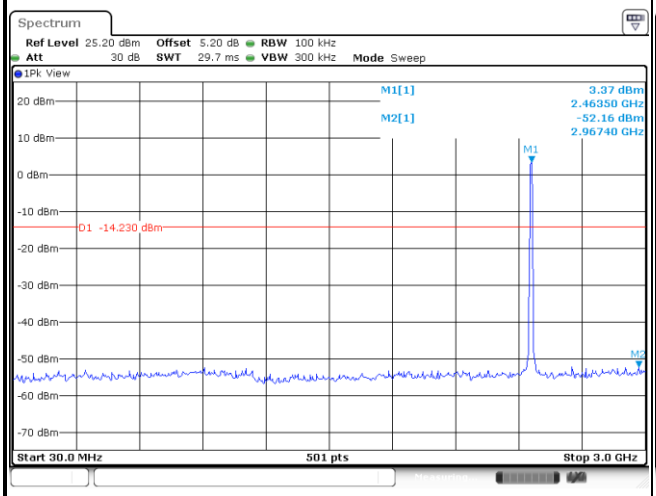
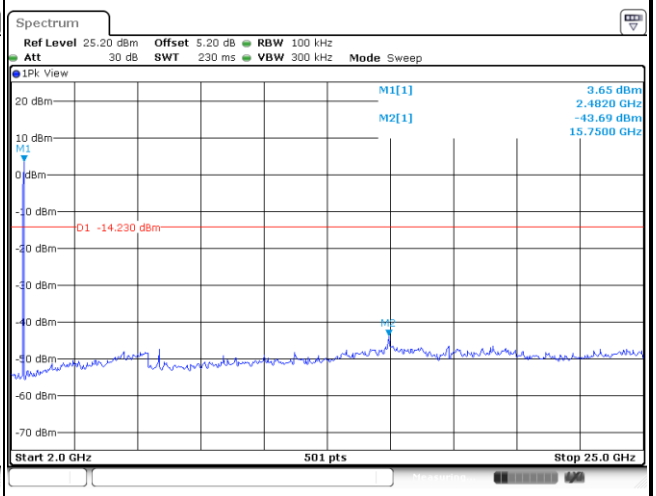


Test Mode :	802.11b	Test Channel :	06

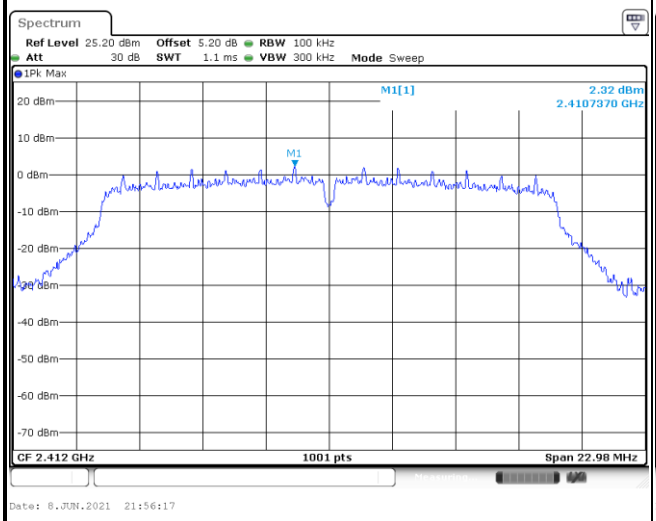
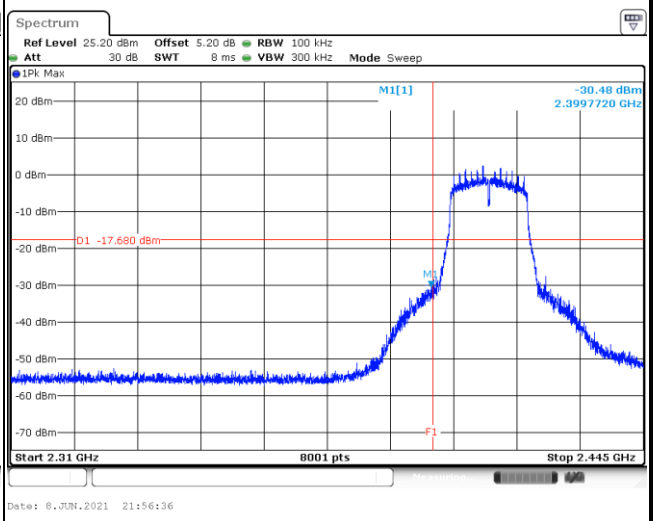
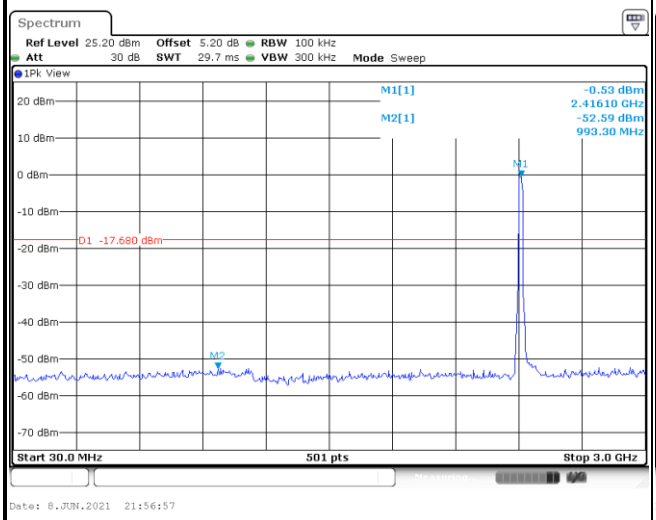
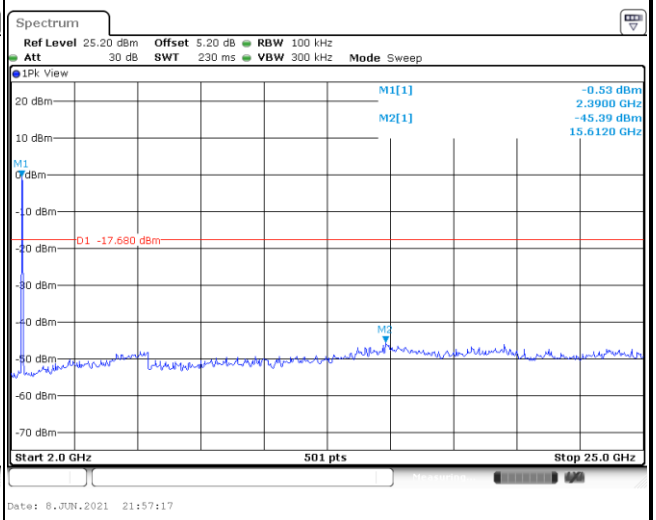
100kHz PSD reference Level	Channel Plot
	

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

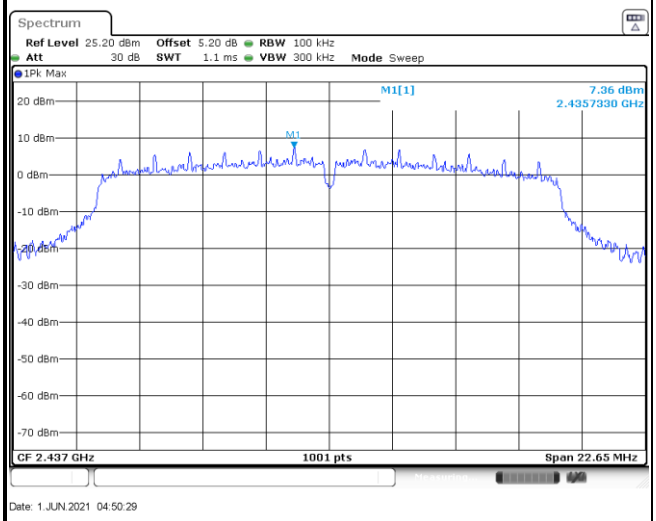
Test Mode :	802.11b	Test Channel :	11

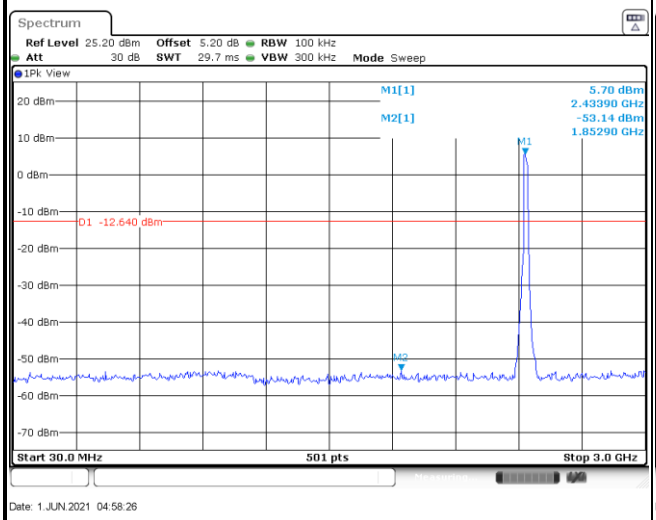
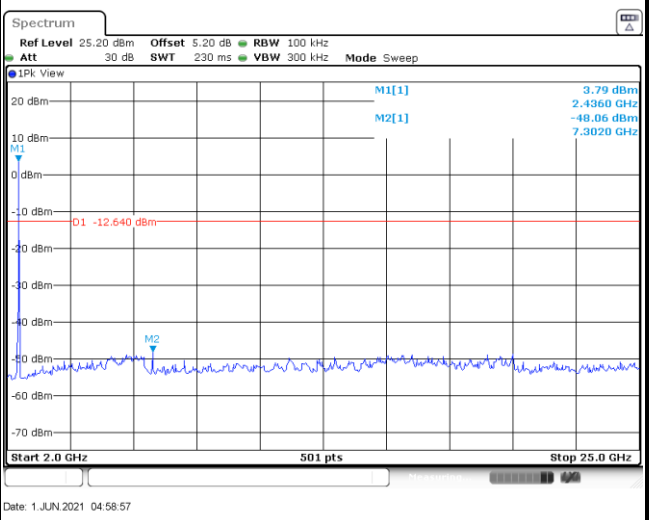
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	01

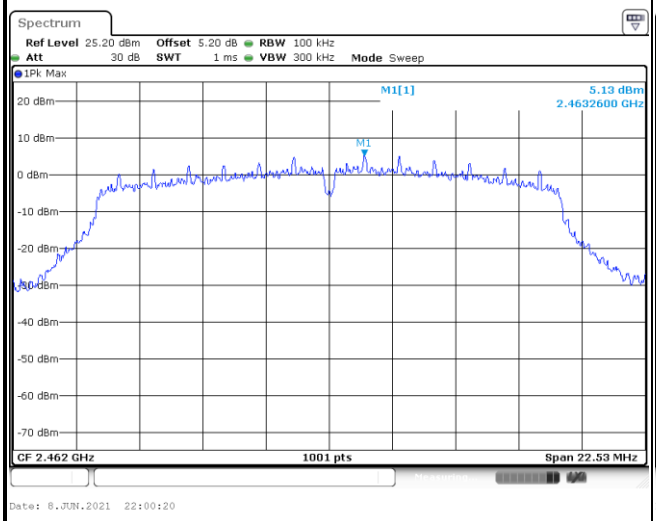
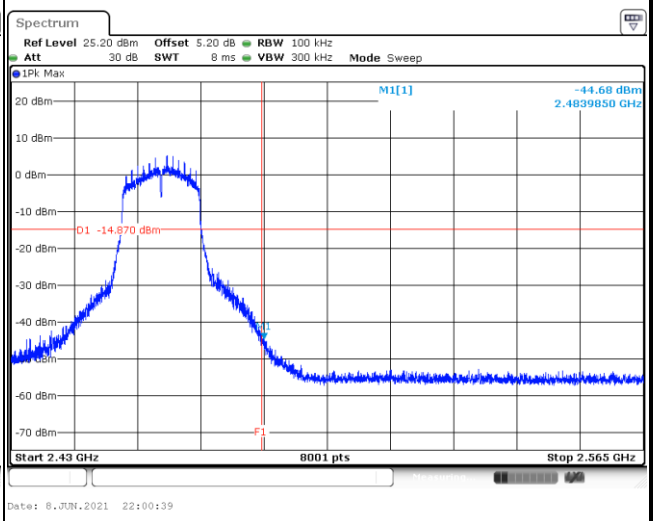
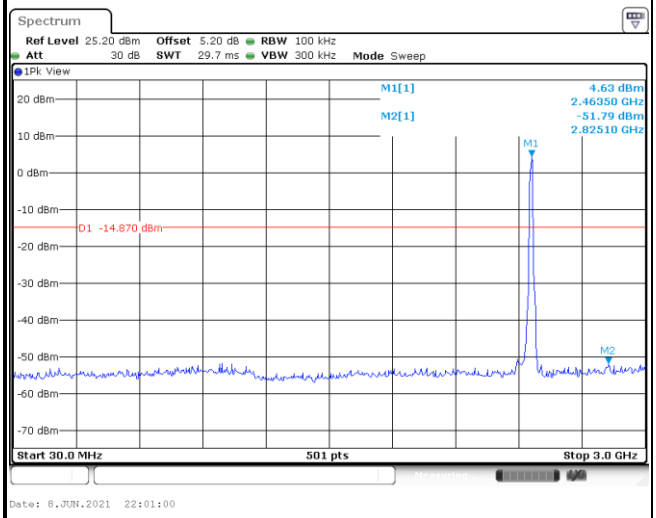
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11g	Test Channel :	06

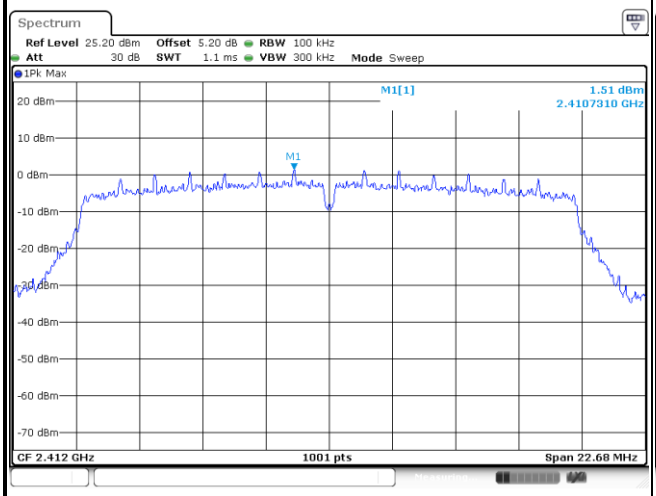
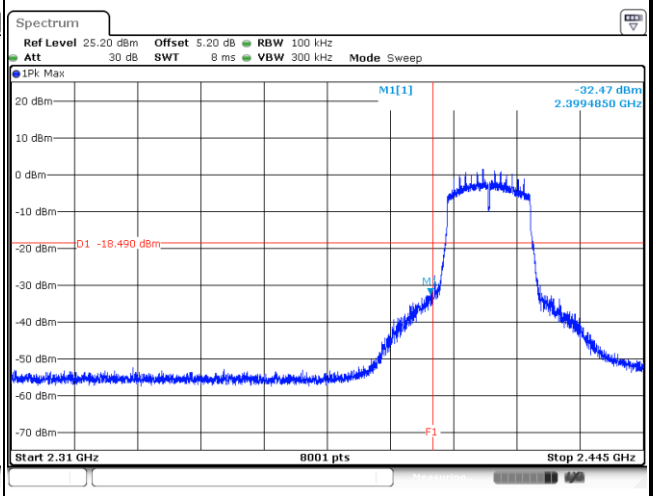
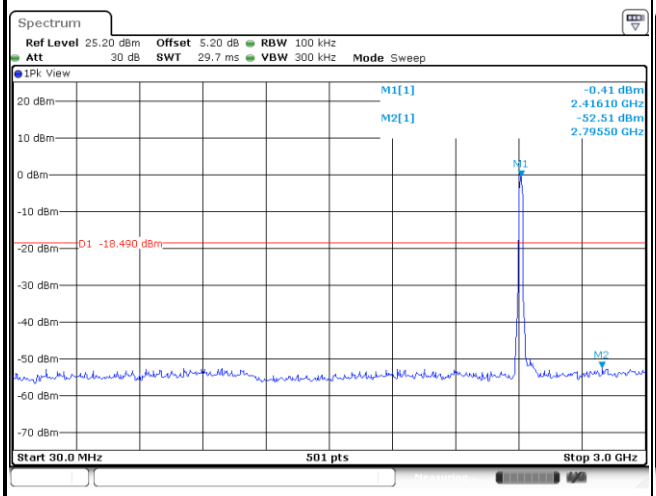
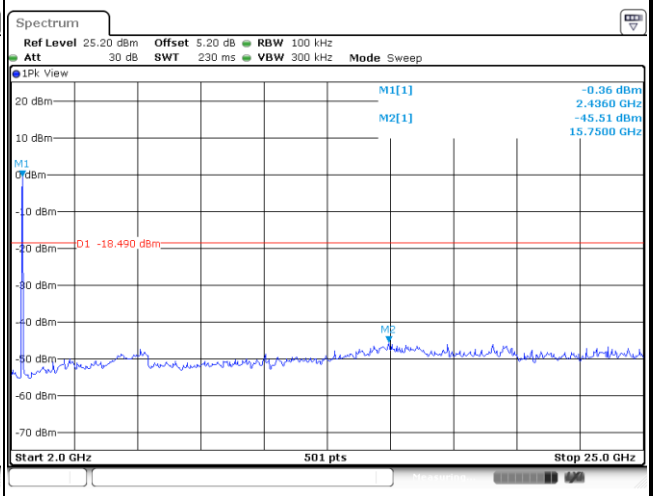
100kHz PSD reference Level	Channel Plot
	

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

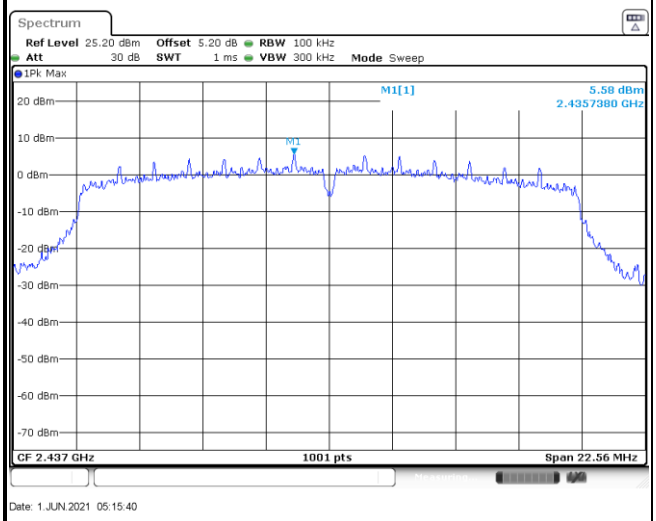
Test Mode :	802.11g	Test Channel :	11

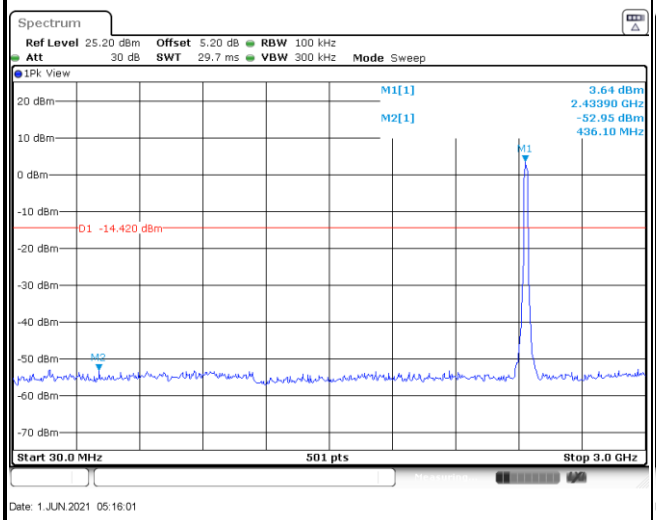
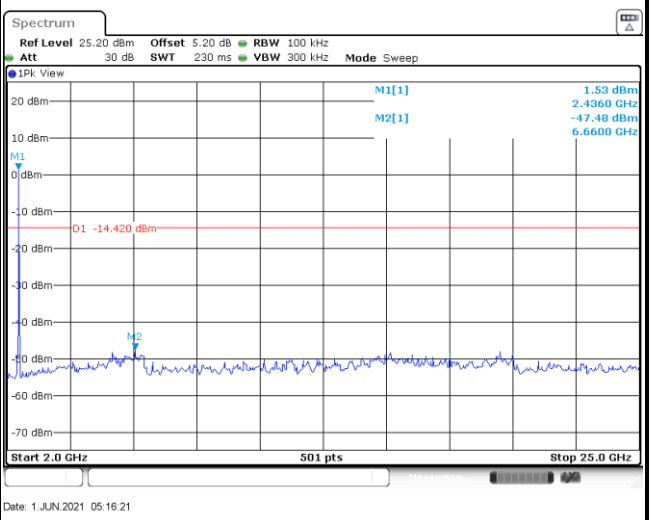
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	01

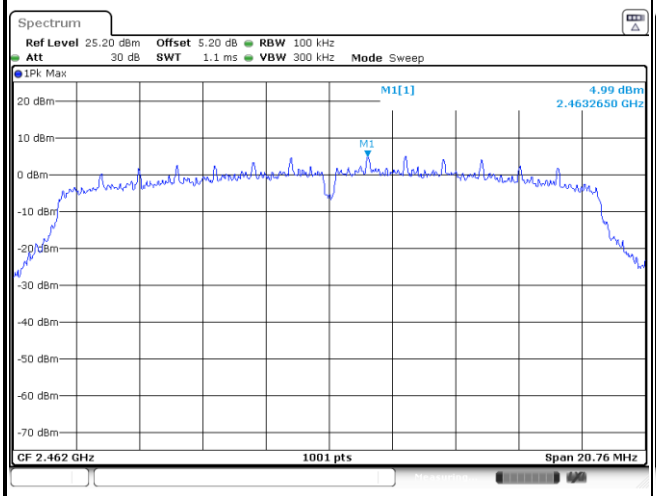
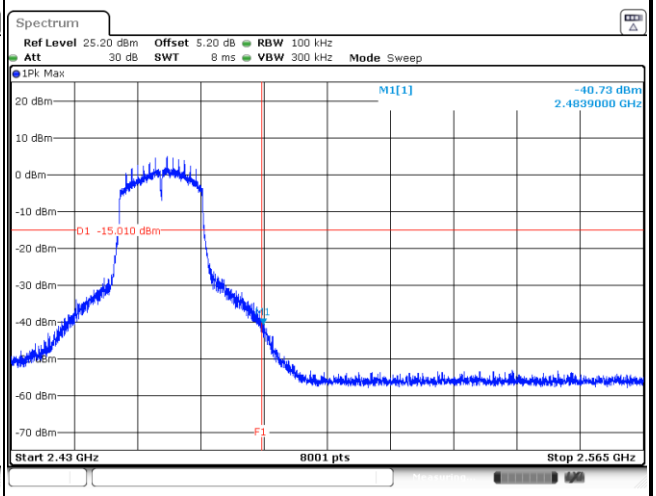
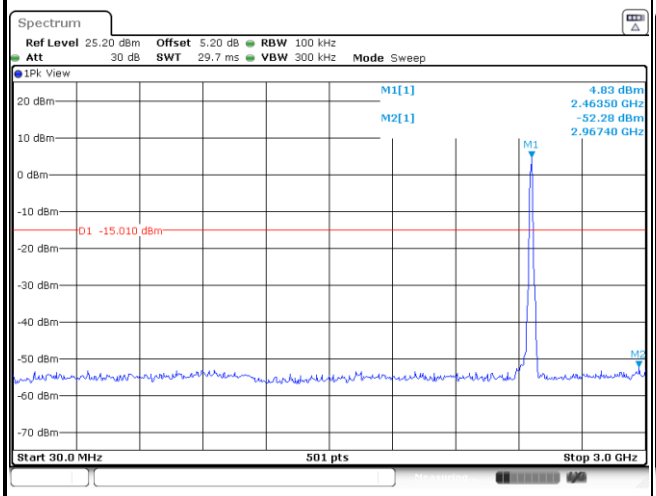
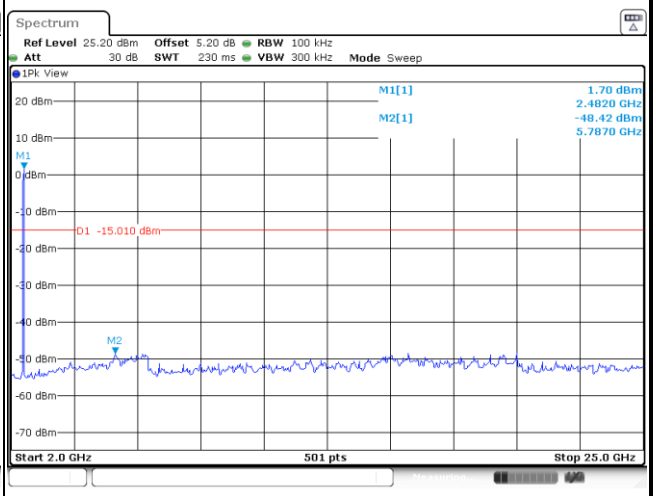
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT20	Test Channel :	06

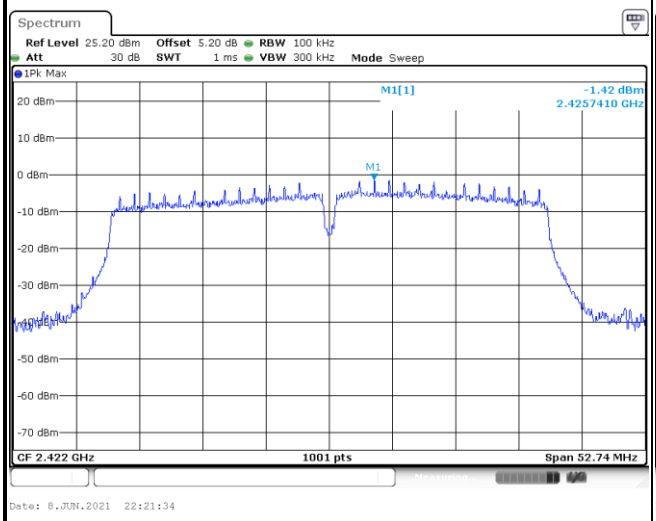
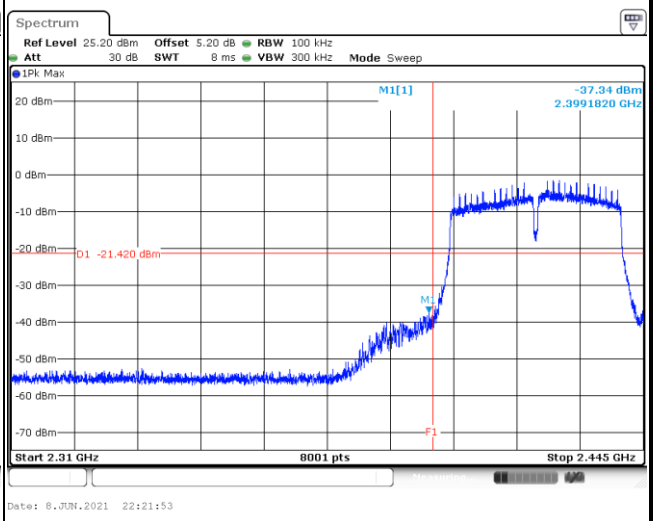
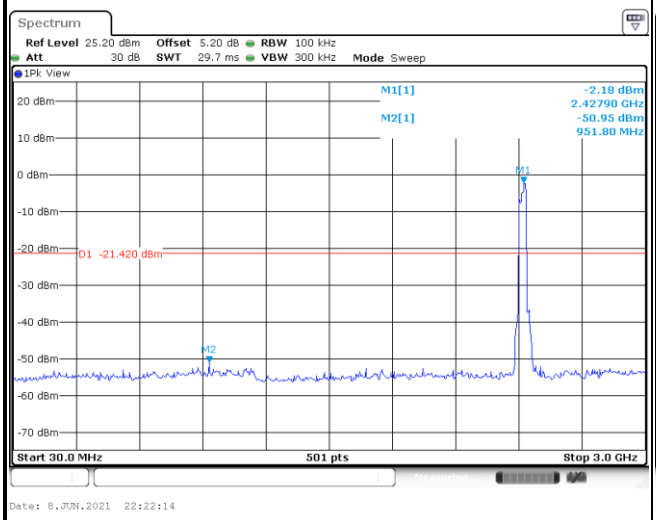
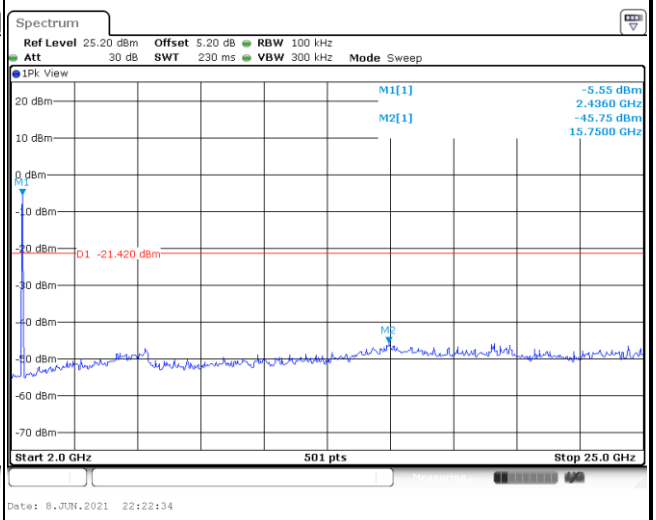
100kHz PSD reference Level	Channel Plot
	

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

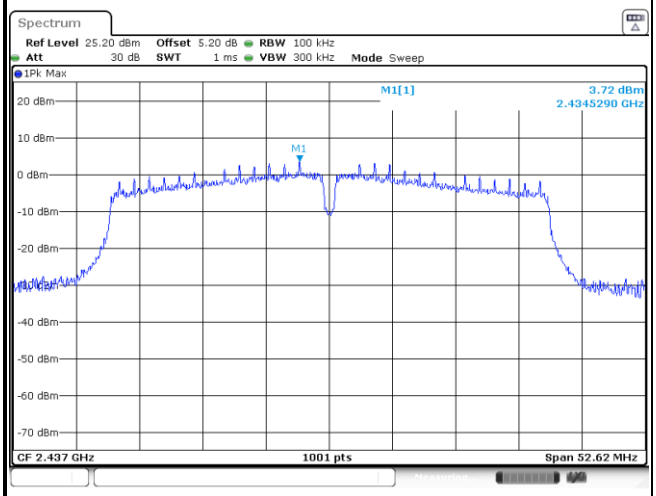
Test Mode :	802.11n HT20	Test Channel :	11

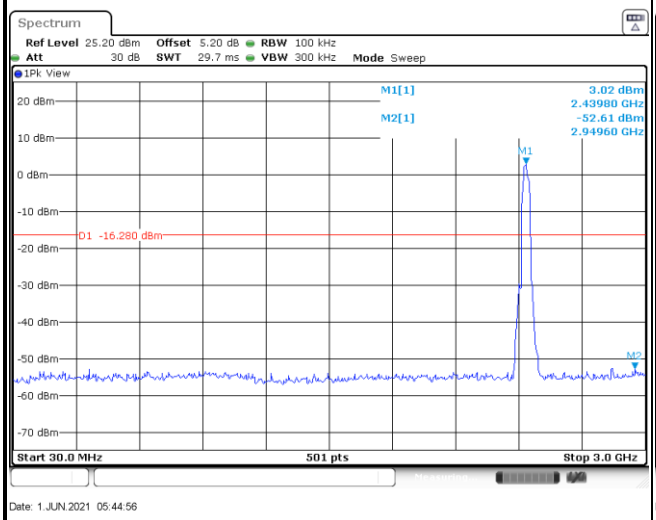
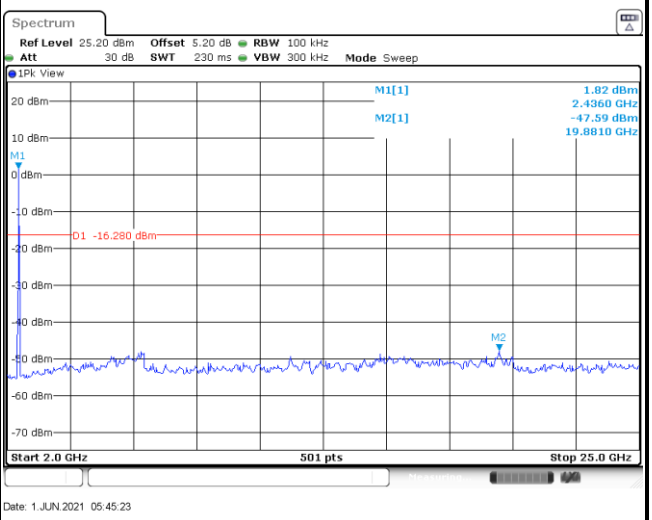
100kHz PSD reference Level	Channel Plot
	
Date: 1.JUN.2021 05:12:33	Date: 1.JUN.2021 05:12:52
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	
Date: 1.JUN.2021 05:13:13	Date: 1.JUN.2021 05:13:33

Test Mode :	802.11n HT40	Test Channel :	03

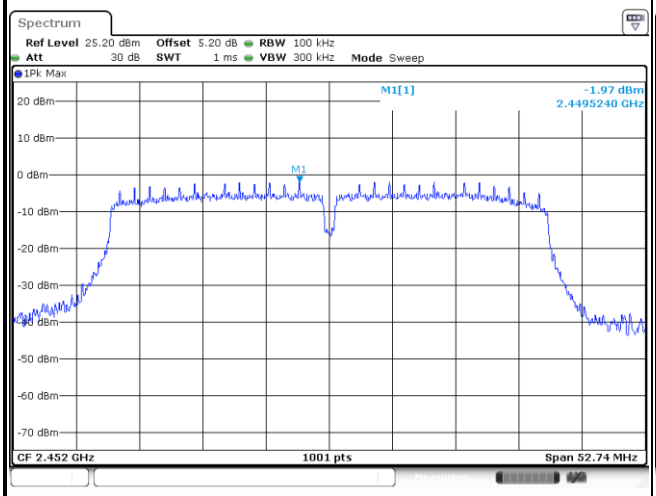
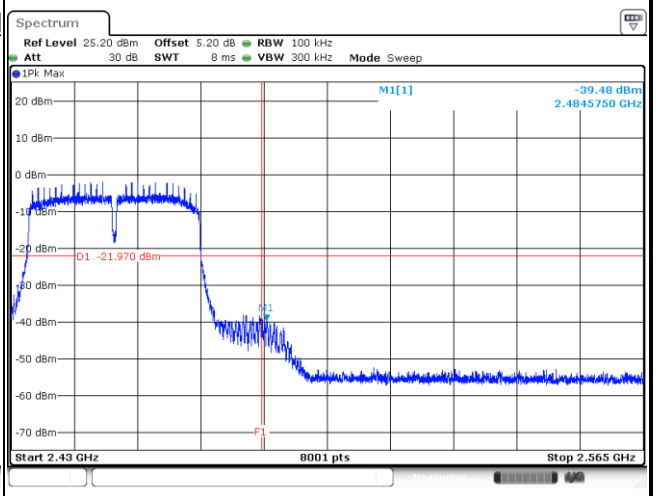
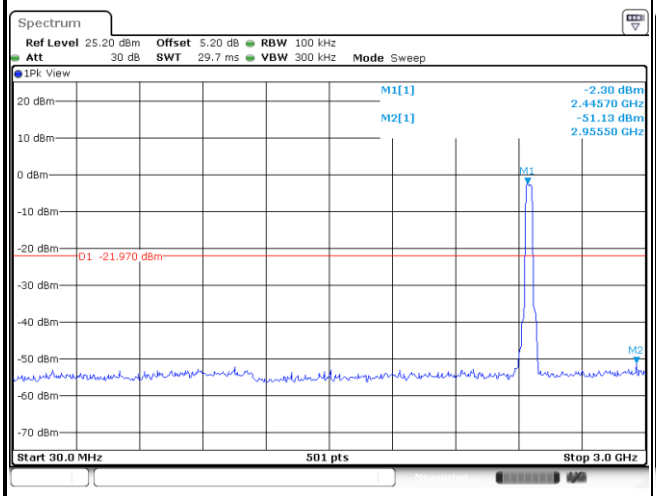
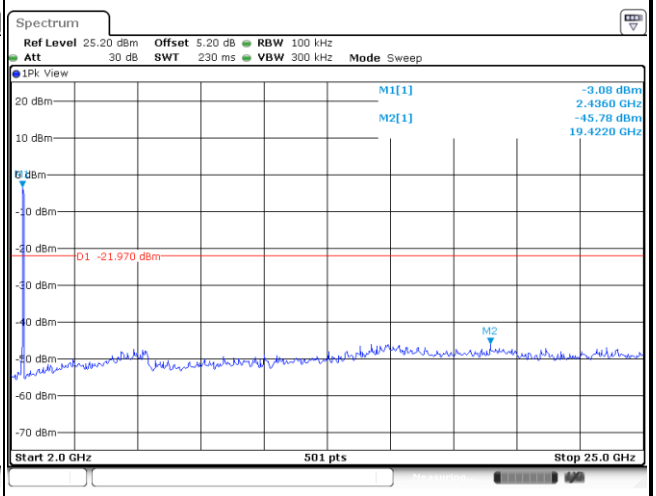
100kHz PSD reference Level	Channel Plot
	
Spurious Emission 30MHz~3GHz	**Spurious Emission 2GHz~25GHz**
	

Test Mode :	802.11n HT40	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

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

Test Mode :	802.11n HT40	Test Channel :	09

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

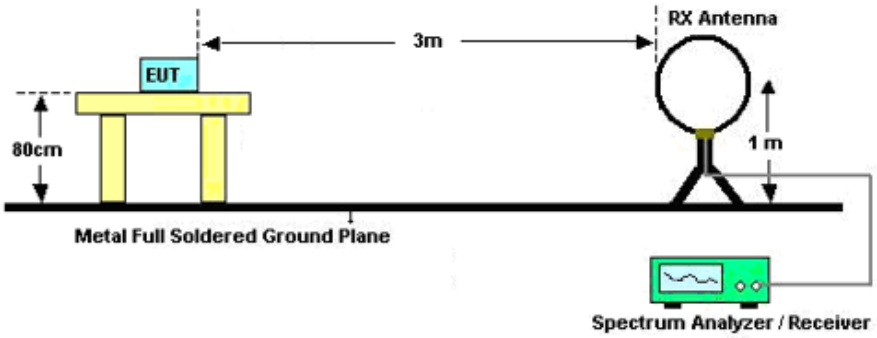
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

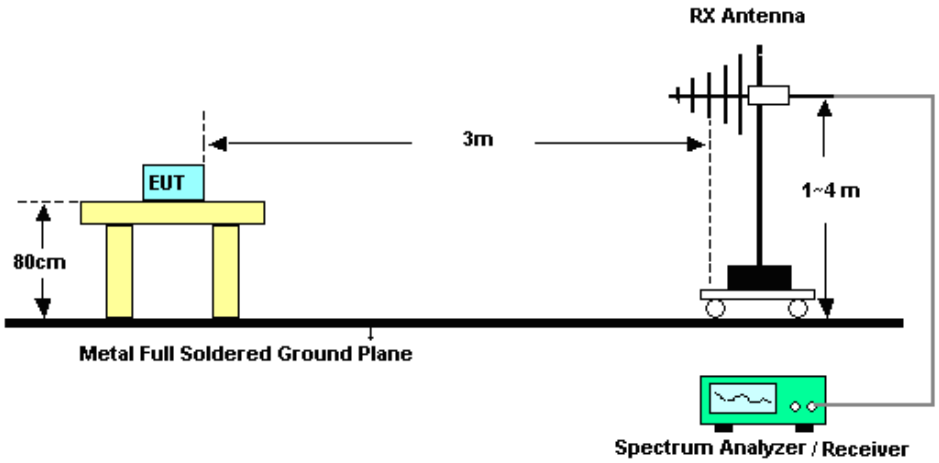
1. The testing follows ANSI C63.10-2013 clause 11.11 & 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better 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 peak 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

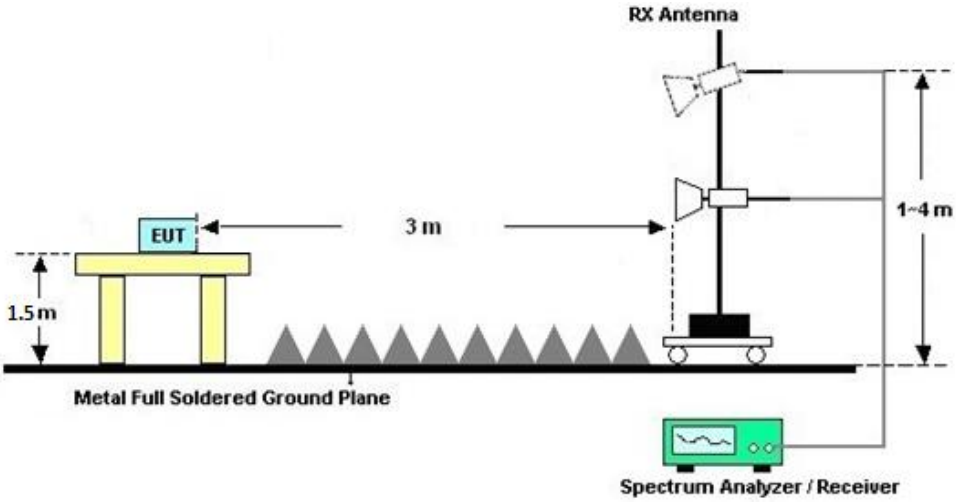
For radiated emissions below 30MHz



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 or 40GHz, whichever is lower)

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.

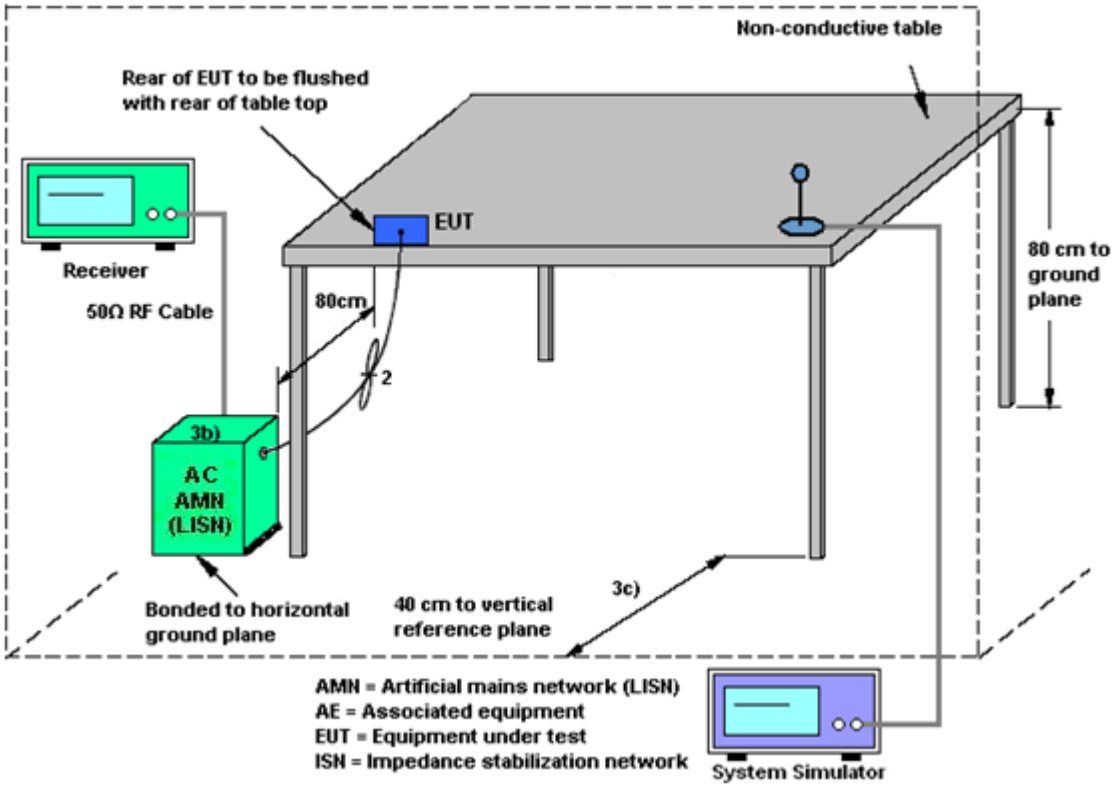
3.6.2 Measuring Instruments

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
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr. 21, 2021	Jun. 09, 2021	Apr. 20, 2022	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 17, 2020	Jun. 09, 2021	Oct. 16, 2021	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Apr. 13, 2021	Jun. 09, 2021	Apr. 12, 2022	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 17, 2020	Jun. 09, 2021	Oct. 16, 2021	Conduction (CO01-KS)
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Max 30dBm	Oct. 17, 2020	Jun. 17, 2021	Oct. 16, 2021	Radiation (03CH06-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 08	10Hz-44GHz	Apr. 12, 2021	Jun. 17, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz	Nov. 01, 2020	Jun. 17, 2021	Oct. 31, 2021	Radiation (03CH06-KS)
Bilog Antenna	TESEQ	CBL6112D	23183	25MHz~2GHz	Jan. 07, 2021	Jun. 17, 2021	Jan. 06, 2022	Radiation (03CH06-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00218652	1GHz~18GHz	Apr. 25, 2021	Jun. 17, 2021	Apr. 24, 2022	Radiation (03CH06-KS)
SHF-EHF Horn	Com-power	AH-840	101115	18GHz~40GHz	Nov. 10, 2020	Jun. 17, 2021	Nov. 09, 2021	Radiation (03CH06-KS)
Amplifier	SONOMA	310N	187289	9KHz ~1GHZ	Apr. 12, 2021	Jun. 17, 2021	Apr. 11, 2022	Radiation (03CH06-KS)
Amplifier	MITEQ	EM18G40GGA	060728	18~40GHz	Jan. 06, 2021	Jun. 17, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
high gain Amplifier	MITEQ	AMF-7D-00101800-30-10P	2025788	1Ghz-18Ghz	Jan. 06, 2021	Jun. 17, 2021	Jan. 05, 2022	Radiation (03CH06-KS)
Amplifier	Keysight	83017A	MY532702 03	500MHz~26.5GHz	Apr. 13, 2021	Jun. 17, 2021	Apr. 12, 2022	Radiation (03CH06-KS)
AC Power Source	Chroma	61601	F1040900 04	N/A	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 17, 2021	NCR	Radiation (03CH06-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Nov. 01, 2020	Jun. 01, 2021 Jun. 17, 2021	Oct. 31, 2021	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 07, 2021	Jun. 01, 2021 Jun. 17, 2021	Jan. 06, 2022	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 07, 2021	Jun. 01, 2021 Jun. 17, 2021	Jan. 06, 2022	Conducted (TH01-KS)

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))	**2.94dB**

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 : FR152109C

A1 - DTS Part

Test Engineer:	RISE LIU	Temperature:	21~25	°C
Test Date:	2021/6/1-2021/6/17	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	13.09	8.04	0.50	Pass
11b	1Mbps	1	6	2437	13.84	8.56	0.50	Pass
11b	1Mbps	1	11	2462	12.54	7.56	0.50	Pass
11g	6Mbps	1	1	2412	17.88	15.32	0.50	Pass
11g	6Mbps	1	6	2437	18.03	15.10	0.50	Pass
11g	6Mbps	1	11	2462	17.43	15.02	0.50	Pass
HT20	MCS0	1	1	2412	18.58	15.12	0.50	Pass
HT20	MCS0	1	6	2437	18.58	15.04	0.50	Pass
HT20	MCS0	1	11	2462	18.28	13.84	0.50	Pass
HT40	MCS0	1	3	2422	38.36	35.16	0.50	Pass
HT40	MCS0	1	6	2437	36.36	35.08	0.50	Pass
HT40	MCS0	1	9	2452	36.36	35.16	0.50	Pass

TEST RESULTS DATA
Peak Power Table

2.4GHz Band										
Mod.	Data Rate	N_{TX}	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	15.76	30.00	-2.70	13.06	36.00	Pass
11b	1Mbps	1	6	2437	20.65	30.00	-2.70	17.95	36.00	Pass
11b	1Mbps	1	11	2462	16.32	30.00	-2.70	13.62	36.00	Pass
11g	6Mbps	1	1	2412	21.51	30.00	-2.70	18.81	36.00	Pass
11g	6Mbps	1	6	2437	23.48	30.00	-2.70	20.78	36.00	Pass
11g	6Mbps	1	11	2462	22.83	30.00	-2.70	20.13	36.00	Pass
HT20	MCS0	1	1	2412	21.83	30.00	-2.70	19.13	36.00	Pass
HT20	MCS0	1	6	2437	23.28	30.00	-2.70	20.58	36.00	Pass
HT20	MCS0	1	11	2462	22.83	30.00	-2.70	20.13	36.00	Pass
HT40	MCS0	1	3	2422	21.95	30.00	-2.70	19.25	36.00	Pass
HT40	MCS0	1	6	2437	24.16	30.00	-2.70	21.46	36.00	Pass
HT40	MCS0	1	9	2452	22.31	30.00	-2.70	19.61	36.00	Pass

Report Number : FR152109C

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	0.03	13.41
11b	1Mbps	1	6	2437	0.03	18.48
11b	1Mbps	1	11	2462	0.03	13.58
11g	6Mbps	1	1	2412	0.13	13.09
11g	6Mbps	1	6	2437	0.13	17.34
11g	6Mbps	1	11	2462	0.13	14.99
HT20	MCS0	1	1	2412	0.14	12.01
HT20	MCS0	1	6	2437	0.14	15.46
HT20	MCS0	1	11	2462	0.14	14.39
HT40	MCS0	1	3	2422	0.26	11.69
HT40	MCS0	1	6	2437	0.26	15.71
HT40	MCS0	1	9	2452	0.26	12.04

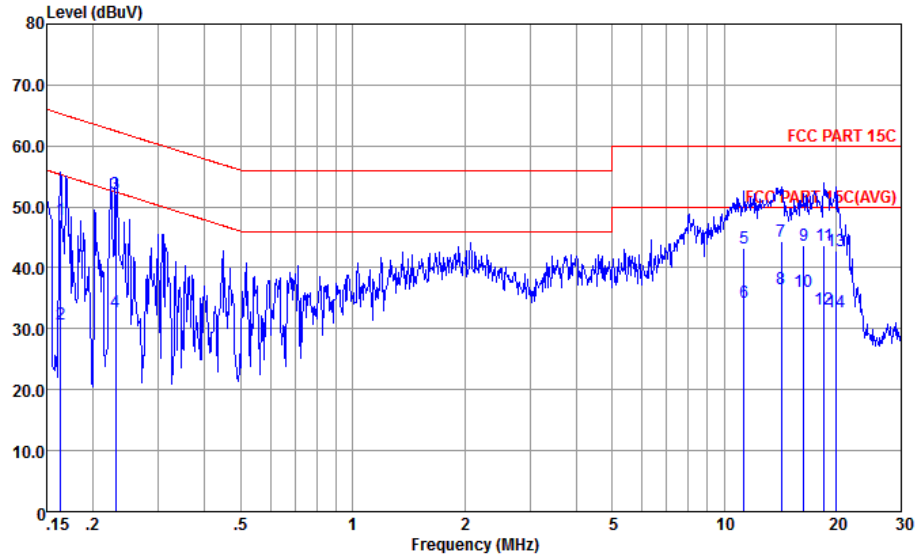
Report Number : FR152109C

TEST RESULTS DATA
Peak Power Density

2.4GHz Band								
Mod.	Data Rate	N_{TX}	CH.	Freq. (MHz)	Peak PSD (dBm /3kHz)	DG (dBi)	Peak PSD Limit (dBm /3kHz)	Pass/Fail
11b	1Mbps	1	1	2412	-8.06	-2.70	8.00	Pass
11b	1Mbps	1	6	2437	-3.17	-2.70	8.00	Pass
11b	1Mbps	1	11	2462	-8.00	-2.70	8.00	Pass
11g	6Mbps	1	1	2412	-10.47	-2.70	8.00	Pass
11g	6Mbps	1	6	2437	-6.90	-2.70	8.00	Pass
11g	6Mbps	1	11	2462	-8.55	-2.70	8.00	Pass
HT20	MCS0	1	1	2412	-12.35	-2.70	8.00	Pass
HT20	MCS0	1	6	2437	-8.53	-2.70	8.00	Pass
HT20	MCS0	1	11	2462	-8.72	-2.70	8.00	Pass
HT40	MCS0	1	3	2422	-16.23	-2.70	8.00	Pass
HT40	MCS0	1	6	2437	-11.95	-2.70	8.00	Pass
HT40	MCS0	1	9	2452	-15.36	-2.70	8.00	Pass

Appendix B. AC Conducted Emission Test Results

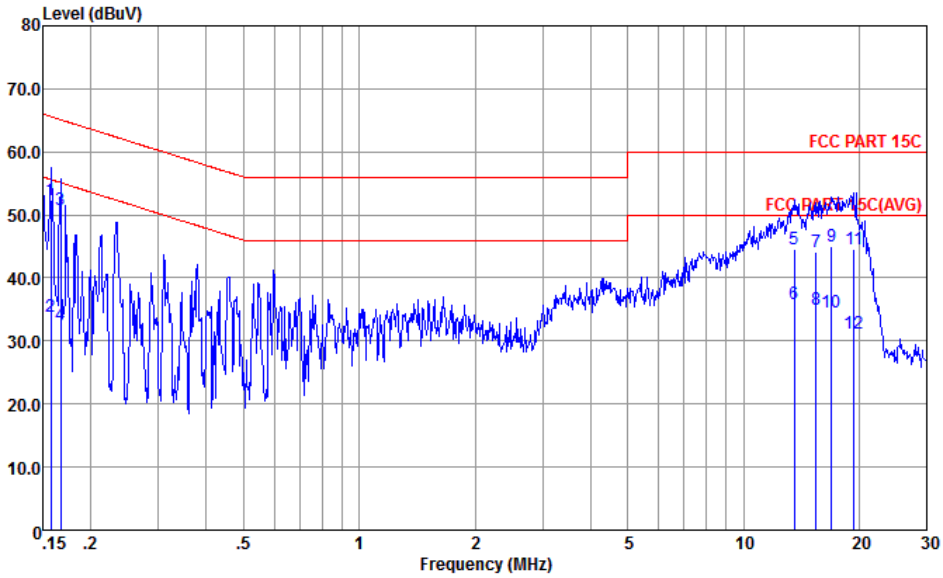
Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Line
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C TWO-LISN-CN02-L LINE

		Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1		0.163	47.89	-17.41	65.30	27.80	9.64	10.45	QP
2		0.163	30.69	-24.61	55.30	10.60	9.64	10.45	Average
3	*	0.230	52.19	-10.25	62.44	32.21	9.64	10.34	QP
4		0.230	32.79	-19.65	52.44	12.81	9.64	10.34	Average
5		11.317	43.28	-16.72	60.00	22.30	10.62	10.36	QP
6		11.317	34.28	-15.72	50.00	13.30	10.62	10.36	Average
7		14.288	44.44	-15.56	60.00	23.20	10.85	10.39	QP
8		14.288	36.44	-13.56	50.00	15.20	10.85	10.39	Average
9		16.398	43.61	-16.39	60.00	22.20	10.98	10.43	QP
10		16.398	36.01	-13.99	50.00	14.60	10.98	10.43	Average
11		18.622	43.76	-16.24	60.00	22.20	11.09	10.47	QP
12		18.622	33.16	-16.84	50.00	11.60	11.09	10.47	Average
13		19.950	42.85	-17.15	60.00	21.20	11.16	10.49	QP
14		19.950	32.85	-17.15	50.00	11.20	11.16	10.49	Average

Test Engineer :	Amos Zhang	**Temperature :**	25.3~26.2℃
		Relative Humidity :	38~40%
Test Voltage :	120Vac / 60Hz	**Phase :**	Neutral
Remark :	All emissions not reported here are more than 10 dB below the prescribed limit.		



Site : CO01-KS
Condition : FCC PART 15C TWO-LISN-CN02-N NEUTRAL

		Freq MHz	Level dBuV	Over Limit dB	Limit Line dBuV	Read Level dBuV	LISN Factor dB	Cable Loss dB	Remark
1	*	0.157	52.47	-13.13	65.60	32.20	9.81	10.46	QP
2		0.157	33.87	-21.73	55.60	13.60	9.81	10.46	Average
3		0.167	50.77	-14.35	65.12	30.50	9.83	10.44	QP
4		0.167	32.47	-22.65	55.12	12.20	9.83	10.44	Average
5		13.551	44.61	-15.39	60.00	23.31	10.92	10.38	QP
6		13.551	35.91	-14.09	50.00	14.61	10.92	10.38	Average
7		15.470	44.09	-15.91	60.00	22.60	11.09	10.40	QP
8		15.470	34.99	-15.01	50.00	13.50	11.09	10.40	Average
9		16.928	44.94	-15.06	60.00	23.30	11.20	10.44	QP
10		16.928	34.44	-15.56	50.00	12.80	11.20	10.44	Average
11		19.428	44.67	-15.33	60.00	22.81	11.38	10.48	QP
12		19.428	31.17	-18.83	50.00	9.31	11.38	10.48	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

Test Engineer :	Henzy Li	**Temperature :**	22~23°C
		Relative Humidity :	41~42%

2.4GHz 2400~2483.5MHz

WIFI 802.11b (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		2388.26	56.74	-17.26	74	49.95	32.15	8.09	33.45	110	117	P	H
		2389.95	43.68	-10.32	54	36.89	32.15	8.09	33.45	110	117	A	H
	*	2412	105.04	-	-	98.17	32.2	8.11	33.44	110	117	P	H
	*	2410	101.64	-	-	94.77	32.2	8.11	33.44	110	117	A	H
		2374.61	55.56	-18.44	74	47.66	33.29	8.06	33.45	337	283	P	V
		2389.95	44.6	-9.4	54	36.46	33.5	8.09	33.45	337	283	A	V
	*	2412	102.65	-	-	94.61	33.37	8.11	33.44	337	283	P	V
	*	2410	98.04	-	-	90	33.37	8.11	33.44	337	283	A	V
802.11b CH 11 2462MHz		2484.1	56.79	-17.21	74	50.2	31.8	8.22	33.43	102	127	P	H
		2483.68	43.1	-10.9	54	36.51	31.8	8.22	33.43	102	127	A	H
	*	2462	103.95	-	-	97.29	31.9	8.19	33.43	102	127	P	H
	*	2460	100.84	-	-	94.18	31.9	8.19	33.43	102	127	A	H
		2484.46	56.11	-17.89	74	48.46	32.86	8.22	33.43	362	295	P	V
		2483.5	44.11	-9.89	54	36.46	32.86	8.22	33.43	362	295	A	V
	*	2462	103.79	-	-	96.04	32.99	8.19	33.43	362	295	P	V
	*	2460	100.64	-	-	92.89	32.99	8.19	33.43	362	295	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 01 2412MHz		4824	53.02	-20.98	74	67.67	34.98	11.53	61.16	100	113	P	H
		4824	50.86	-3.14	54	65.51	34.98	11.53	61.16	100	113	A	H
		4824	49.51	-24.49	74	64.3	34.84	11.53	61.16	300	360	P	V
802.11b CH 06 2437MHz		4872	51.79	-22.21	74	66.26	35.04	11.6	61.11	106	218	P	H
		4872	50.44	-3.56	54	64.91	35.04	11.6	61.11	106	218	A	H
		7308	43.06	-30.94	74	52.61	36.86	14.66	61.07	300	0	P	H
		4872	51.72	-22.28	74	66.4	34.83	11.6	61.11	323	310	P	V
		4872	49.32	-4.68	54	64	34.83	11.6	61.11	323	310	A	V
		7308	42.62	-31.38	74	52.64	36.39	14.66	61.07	300	360	P	V
802.11b CH 11 2462MHz		4926	52.51	-21.49	74	66.82	35.1	11.66	61.07	100	112	P	H
		4926	50.35	-3.65	54	64.66	35.1	11.66	61.07	100	112	A	H
		7386	43.81	-30.19	74	53.18	36.88	14.81	61.06	300	0	P	H
		4926	47.79	-26.21	74	62.38	34.82	11.66	61.07	300	360	P	V
		7386	43.35	-30.65	74	53.16	36.44	14.81	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 02 2417MHz		4836	52.63	-21.37	74	67.24	34.98	11.55	61.14	100	118	P	H
		4836	50.43	-3.57	54	65.04	34.98	11.55	61.14	100	118	A	H
		7248	45.11	-28.89	74	54.77	36.85	14.57	61.08	300	0	P	H
		4836	47.82	-26.18	74	62.58	34.83	11.55	61.14	300	360	P	V
		7248	44.76	-29.24	74	54.91	36.36	14.57	61.08	300	360	P	V
802.11b CH 03 2422MHz		4842	52.67	-21.33	74	67.26	35	11.55	61.14	100	116	P	H
		4842	50.89	-3.11	54	65.48	35	11.55	61.14	100	116	A	H
		7266	43.81	-30.19	74	53.44	36.85	14.6	61.08	300	0	P	H
		4842	48.45	-25.55	74	63.21	34.83	11.55	61.14	300	360	P	V
		7266	42.53	-31.47	74	52.64	36.37	14.6	61.08	300	360	P	V
802.11b CH 04 2427MHz		4854	52.8	-21.2	74	67.33	35.02	11.58	61.13	100	123	P	H
		4854	50.81	-3.19	54	65.34	35.02	11.58	61.13	100	123	A	H
		7284	43.35	-30.65	74	52.94	36.86	14.63	61.08	300	0	P	H
		4854	48.33	-25.67	74	63.05	34.83	11.58	61.13	300	360	P	V
		7281	42.38	-31.62	74	52.49	36.37	14.6	61.08	300	360	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 07 2442MHz		4884	52.91	-21.09	74	67.38	35.04	11.6	61.11	100	115	P	H
		4884	50.69	-3.31	54	65.16	35.04	11.6	61.11	100	115	A	H
		7326	43.56	-30.44	74	53.07	36.87	14.69	61.07	300	0	P	H
		4884	47.91	-26.09	74	62.59	34.83	11.6	61.11	300	360	P	V
		7326	42.57	-31.43	74	52.55	36.4	14.69	61.07	300	360	P	V
802.11b CH 08 2447MHz		4896	52.56	-21.44	74	66.98	35.06	11.62	61.1	100	116	P	H
		4896	50.65	-3.35	54	65.07	35.06	11.62	61.1	100	116	A	H
		7344	42.96	-31.04	74	52.44	36.87	14.72	61.07	300	0	P	H
		4896	49.12	-24.88	74	63.78	34.82	11.62	61.1	300	360	P	V
		7344	43.07	-30.93	74	53.01	36.41	14.72	61.07	300	360	P	V
802.11b CH 09 2452MHz		4902	53.05	-20.95	74	67.43	35.06	11.64	61.08	100	117	P	H
		4902	50.73	-3.27	54	65.11	35.06	11.64	61.08	100	117	A	H
		7356	43.42	-30.58	74	52.86	36.87	14.75	61.06	300	0	P	H
		4902	48.93	-25.07	74	63.55	34.82	11.64	61.08	300	360	P	V
		7356	43.8	-30.2	74	53.69	36.42	14.75	61.06	300	360	P	V
Remark	5. No other spurious found. 6. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11b CH 10 2457MHz		4914	52.84	-21.16	74	67.2	35.08	11.64	61.08	100	121	P	H
		4914	50.64	-3.36	54	65	35.08	11.64	61.08	100	121	A	H
		7368	42.35	-31.65	74	51.76	36.87	14.78	61.06	300	0	P	H
		4914	48.7	-25.3	74	63.32	34.82	11.64	61.08	300	360	P	V
		7368	42.4	-31.6	74	52.25	36.43	14.78	61.06	300	360	P	V
Remark	7. No other spurious found. 8. 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		2389.82	63.49	-10.51	74	56.7	32.15	8.09	33.45	111	123	P	H
		2389.95	49.67	-4.33	54	42.88	32.15	8.09	33.45	111	123	A	H
	*	2410	107.53	-	-	100.66	32.2	8.11	33.44	111	123	P	H
	*	2410	100	-	-	93.13	32.2	8.11	33.44	111	123	A	H
		2389.69	59.73	-14.27	74	51.59	33.5	8.09	33.45	332	281	P	V
		2389.95	47.89	-6.11	54	39.75	33.5	8.09	33.45	332	281	A	V
	*	2414	104.72	-	-	96.68	33.37	8.11	33.44	332	281	P	V
	*	2414	97.02	-	-	88.98	33.37	8.11	33.44	332	281	A	V
802.11g CH 02 2417MHz		2389.82	67.37	-6.63	74	60.58	32.15	8.09	33.45	100	122	P	H
		2389.95	50.37	-3.63	54	43.58	32.15	8.09	33.45	100	122	A	H
		2420	109.7	-	-	102.9	32.1	8.14	33.44	100	122	P	H
		2420	101.87	-	-	95.07	32.1	8.14	33.44	100	122	A	H
		2389.69	61.44	-12.56	74	53.3	33.5	8.09	33.45	291	287	P	V
		2389.43	47.13	-6.87	54	38.99	33.5	8.09	33.45	291	287	A	V
		2420	106.01	-	-	98.07	33.24	8.14	33.44	291	287	P	V
		2420	98.41	-	-	90.47	33.24	8.14	33.44	291	287	A	V

802.11g CH 11 2462MHz		2483.68	67.58	-6.42	74	60.99	31.8	8.22	33.43	100	125	P	H
		2483.5	50.17	-3.83	54	43.58	31.8	8.22	33.43	100	125	A	H
	*	2460	109.11	-	-	102.45	31.9	8.19	33.43	100	125	P	H
	*	2460	101.62	-	-	94.96	31.9	8.19	33.43	100	125	A	H
		2483.74	63.65	-10.35	74	56	32.86	8.22	33.43	341	289	P	V
		2483.5	49.07	-4.93	54	41.42	32.86	8.22	33.43	341	289	A	V
	*	2464	108.31	-	-	100.56	32.99	8.19	33.43	341	289	P	V
	*	2460	100.53	-	-	92.78	32.99	8.19	33.43	341	289	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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 01 2412MHz		4830	49.81	-24.19	74	64.46	34.98	11.53	61.16	300	0	P	H
		4824	49.3	-24.7	74	64.09	34.84	11.53	61.16	300	360	P	V
802.11g CH 06 2437MHz		4872	51.9	-22.1	74	66.37	35.04	11.6	61.11	100	195	P	H
		4872	39.32	-14.68	54	53.79	35.04	11.6	61.11	100	195	A	H
		7308	43.12	-30.88	74	52.67	36.86	14.66	61.07	300	0	P	H
		4872	46.93	-27.07	74	61.61	34.83	11.6	61.11	300	360	P	V
		7308	42.12	-31.88	74	52.14	36.39	14.66	61.07	300	360	P	V
802.11g CH 11 2462MHz		4926	45.04	-28.96	74	59.35	35.1	11.66	61.07	300	0	P	H
		7386	42.33	-31.67	74	51.7	36.88	14.81	61.06	300	0	P	H
		4926	42.76	-31.24	74	57.35	34.82	11.66	61.07	300	360	P	V
		7386	42.34	-31.66	74	52.15	36.44	14.81	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11g CH 02 2417MHz		4834	47.37	-26.63	74	61.98	34.98	11.55	61.14	300	0	P	H
		7251	43.73	-30.27	74	53.39	36.85	14.57	61.08	300	0	P	H
		4834	44.86	-29.14	74	59.62	34.83	11.55	61.14	300	360	P	V
		7251	42.81	-31.19	74	52.96	36.36	14.57	61.08	300	360	P	V
Remark	3. No other spurious found. 4. 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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT20 CH 01 2412MHz		2389.82	66.52	-7.48	74	59.73	32.15	8.09	33.45	131	118	P	H
		2389.95	50.32	-3.68	54	43.53	32.15	8.09	33.45	131	118	A	H
	*	2410	105.72	-	-	98.85	32.2	8.11	33.44	131	118	P	H
	*	2410	98.26	-	-	91.39	32.2	8.11	33.44	131	118	A	H
		2389.82	62.01	-11.99	74	53.87	33.5	8.09	33.45	337	285	P	V
		2389.82	48.03	-5.97	54	39.89	33.5	8.09	33.45	337	285	A	V
	*	2412	103.37	-	-	95.33	33.37	8.11	33.44	337	285	P	V
	*	2414	95.62	-	-	87.58	33.37	8.11	33.44	337	285	A	V
802.11n HT20 CH 02 2417MHz		2389.17	64.99	-9.01	74	58.2	32.15	8.09	33.45	107	122	P	H
		2389.95	49.74	-4.26	54	42.95	32.15	8.09	33.45	107	122	A	H
		2420	108.83	-	-	102.03	32.1	8.14	33.44	107	122	P	H
		2418	101.3	-	-	94.53	32.1	8.11	33.44	107	122	A	H
		2389.82	61.09	-12.91	74	52.95	33.5	8.09	33.45	295	289	P	V
		2389.95	47.26	-6.74	54	39.12	33.5	8.09	33.45	295	289	A	V
		2420	104.81	-	-	96.87	33.24	8.14	33.44	295	289	P	V
		2418	97.25	-	-	89.21	33.37	8.11	33.44	295	289	A	V

802.11n HT20 CH 11 2462MHz		2483.98	63.28	-10.72	74	56.69	31.8	8.22	33.43	308	272	P	H
		2483.5	50.09	-3.91	54	43.5	31.8	8.22	33.43	308	272	A	H
	*	2464	106.62	-	-	99.96	31.9	8.19	33.43	308	272	P	H
	*	2462	99.14	-	-	92.48	31.9	8.19	33.43	308	272	A	H
		2483.56	64.33	-9.67	74	56.68	32.86	8.22	33.43	100	269	P	V
		2483.62	49.7	-4.3	54	42.05	32.86	8.22	33.43	100	269	A	V
	*	2462	104.82	-	-	97.07	32.99	8.19	33.43	100	269	P	V
	*	2460	97.36	-	-	89.61	32.99	8.19	33.43	100	269	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)	Path 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	45.01	-28.99	74	59.66	34.98	11.53	61.16	300	0	P	H
		4824	41.84	-32.16	74	56.63	34.84	11.53	61.16	300	360	P	V
802.11n HT20 CH 06 2437MHz		4872	44.26	-29.74	74	58.73	35.04	11.6	61.11	300	0	P	H
		7308	42.37	-31.63	74	51.92	36.86	14.66	61.07	300	0	P	H
		4872	41.99	-32.01	74	56.67	34.83	11.6	61.11	300	360	P	V
		7308	42.18	-31.82	74	52.2	36.39	14.66	61.07	300	360	P	V
802.11n HT20 CH 11 2462MHz		4926	45.58	-28.42	74	59.89	35.1	11.66	61.07	300	0	P	H
		7386	43.77	-30.23	74	53.14	36.88	14.81	61.06	300	0	P	H
		4926	41.22	-32.78	74	55.81	34.82	11.66	61.07	300	360	P	V
		7386	42.47	-31.53	74	52.28	36.44	14.81	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n		4834	45.64	-28.36	74	60.25	34.98	11.55	61.14	300	0	P	H
HT20		7251	42.82	-31.18	74	52.48	36.85	14.57	61.08	300	0	P	H
CH 02		4834	43.48	-30.52	74	58.24	34.83	11.55	61.14	300	360	P	V
2417MHz		7251	43.16	-30.84	74	53.31	36.36	14.57	61.08	300	360	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

WIFI 802.11n HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		2389.43	65.94	-8.06	74	59.15	32.15	8.09	33.45	100	118	P	H
		2389.3	50.29	-3.71	54	43.5	32.15	8.09	33.45	100	118	A	H
		2485.48	56.33	-17.67	74	49.84	31.7	8.22	33.43	100	118	P	H
		2486.5	45.21	-8.79	54	38.71	31.7	8.22	33.42	100	118	A	H
	*	2428	104.68	-	-	97.88	32.1	8.14	33.44	100	118	P	H
	*	2428	97.16	-	-	90.36	32.1	8.14	33.44	100	118	A	H
		2389.43	63.66	-10.34	74	55.52	33.5	8.09	33.45	328	293	P	V
		2389.95	49.01	-4.99	54	40.87	33.5	8.09	33.45	328	293	A	V
		2486.32	57.06	-16.94	74	49.4	32.86	8.22	33.42	328	293	P	V
		2484.1	45.83	-8.17	54	38.18	32.86	8.22	33.43	328	293	A	V
	*	2426	101.97	-	-	94.03	33.24	8.14	33.44	328	293	P	V
	*	2428	94.12	-	-	86.18	33.24	8.14	33.44	328	293	A	V
802.11n HT40 CH 06 2437MHz		2389.95	67.56	-6.44	74	60.77	32.15	8.09	33.45	100	119	P	H
		2389.56	50.64	-3.36	54	43.85	32.15	8.09	33.45	100	119	A	H
		2483.5	62.44	-11.56	74	55.85	31.8	8.22	33.43	100	119	P	H
		2483.5	47.94	-6.06	54	41.35	31.8	8.22	33.43	100	119	A	H
	*	2434	106	-	-	99.3	32	8.14	33.44	100	119	P	H
	*	2434	98.58	-	-	91.88	32	8.14	33.44	100	119	A	H
		2389.95	60.62	-13.38	74	52.48	33.5	8.09	33.45	374	299	P	V
		2389.95	49.21	-4.79	54	41.07	33.5	8.09	33.45	374	299	A	V
		2483.68	61.53	-12.47	74	53.88	32.86	8.22	33.43	374	299	P	V
		2483.92	48.46	-5.54	54	40.81	32.86	8.22	33.43	374	299	A	V
	*	2436	104.42	-	-	96.48	33.24	8.14	33.44	374	299	P	V
	*	2436	96.98	-	-	89.04	33.24	8.14	33.44	374	299	A	V

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 04 2427MHz		2389.69	64.8	-9.2	74	58.01	32.15	8.09	33.45	100	122	P	H
		2389.95	50.49	-3.51	54	43.7	32.15	8.09	33.45	100	122	A	H
		2485.42	59.47	-14.53	74	52.98	31.7	8.22	33.43	100	122	P	H
		2484.76	45.32	-8.68	54	38.73	31.8	8.22	33.43	100	122	A	H
	*	2430	105.33	-	-	98.53	32.1	8.14	33.44	100	122	P	H
	*	2428	97.87	-	-	91.07	32.1	8.14	33.44	100	122	A	H
		2389.69	60.12	-13.88	74	51.98	33.5	8.09	33.45	367	289	P	V
		2389.69	47.28	-6.72	54	39.14	33.5	8.09	33.45	367	289	A	V
		2483.8	57.13	-16.87	74	49.48	32.86	8.22	33.43	367	289	P	V
		2484.34	45.48	-8.52	54	37.83	32.86	8.22	33.43	367	289	A	V
	*	2430	103.12	-	-	95.18	33.24	8.14	33.44	367	289	P	V
	*	2428	95.48	-	-	87.54	33.24	8.14	33.44	367	289	A	V
802.11n HT40 CH 08 2447MHz		2389.43	57.5	-16.5	74	50.71	32.15	8.09	33.45	105	123	P	H
		2388.78	45.69	-8.31	54	38.9	32.15	8.09	33.45	105	123	A	H
		2484.04	67.52	-6.48	74	60.93	31.8	8.22	33.43	105	123	P	H
		2484.04	50.78	-3.22	54	44.19	31.8	8.22	33.43	105	123	A	H
	*	2440	103.14	-	-	96.41	32	8.16	33.43	105	123	P	H
	*	2446	94.94	-	-	88.21	32	8.16	33.43	105	123	A	H
		2383.19	55.61	-18.39	74	47.71	33.29	8.06	33.45	361	293	P	V
		2388.39	45.86	-8.14	54	37.72	33.5	8.09	33.45	361	293	A	V
		2484.64	63.02	-10.98	74	55.37	32.86	8.22	33.43	361	293	P	V
		2483.5	48.63	-5.37	54	40.98	32.86	8.22	33.43	361	293	A	V
	*	2438	101.89	-	-	94.06	33.11	8.16	33.44	361	293	P	V
	*	2438	93.58	-	-	85.75	33.11	8.16	33.44	361	293	A	V

802.11n HT40 CH 09 2452MHz		2389.43	55.86	-18.14	74	49.07	32.15	8.09	33.45	100	126	P	H
		2387.48	45.21	-8.79	54	38.42	32.15	8.09	33.45	100	126	A	H
		2484.4	67.59	-6.41	74	61	31.8	8.22	33.43	100	126	P	H
		2483.5	50.83	-3.17	54	44.24	31.8	8.22	33.43	100	126	A	H
	*	2456	102.67	-	-	96.01	31.9	8.19	33.43	100	126	P	H
	*	2458	94.45	-	-	87.79	31.9	8.19	33.43	100	126	A	H
		2378.64	56.39	-17.61	74	48.49	33.29	8.06	33.45	363	295	P	V
		2389.95	46.05	-7.95	54	37.91	33.5	8.09	33.45	363	295	A	V
		2484.46	67.89	-6.11	74	60.24	32.86	8.22	33.43	363	295	P	V
		2484.64	50.79	-3.21	54	43.14	32.86	8.22	33.43	363	295	A	V
	*	2454	102.78	-	-	95.03	32.99	8.19	33.43	363	295	P	V
	*	2454	95.09	-	-	87.34	32.99	8.19	33.43	363	295	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 HT40 (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)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 03 2422MHz		4842	41.8	-32.2	74	56.39	35	11.55	61.14	300	0	P	H
		7266	43.26	-30.74	74	52.89	36.85	14.6	61.08	300	0	P	H
		4842	43.16	-30.84	74	57.92	34.83	11.55	61.14	300	360	P	V
		7266	42.73	-31.27	74	52.84	36.37	14.6	61.08	300	360	P	V
802.11n HT40 CH 06 2437MHz		4872	41.62	-32.38	74	56.09	35.04	11.6	61.11	300	0	P	H
		7308	42.69	-31.31	74	52.24	36.86	14.66	61.07	300	0	P	H
		4872	41.65	-32.35	74	56.33	34.83	11.6	61.11	300	360	P	V
		7308	43.12	-30.88	74	53.14	36.39	14.66	61.07	300	360	P	V
802.11n HT40 CH 09 2452MHz		4902	40.49	-33.51	74	54.87	35.06	11.64	61.08	300	0	P	H
		7356	44.31	-29.69	74	53.75	36.87	14.75	61.06	300	0	P	H
		4902	39.41	-34.59	74	54.03	34.82	11.64	61.08	300	360	P	V
		7356	43.2	-30.8	74	53.09	36.42	14.75	61.06	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average limit line.												

WIFI Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (H/V)
802.11n HT40 CH 04 2427MHz		4854	42.23	-31.77	74	56.76	35.02	11.58	61.13	300	0	P	H
		7281	42.72	-31.28	74	52.34	36.86	14.6	61.08	300	0	P	H
		4854	40.66	-33.34	74	55.38	34.83	11.58	61.13	300	360	P	V
		7281	42.75	-31.25	74	52.86	36.37	14.6	61.08	300	360	P	V
802.11n HT40 CH 08 2447MHz		4894	39.67	-34.33	74	54.09	35.06	11.62	61.1	300	0	P	H
		7341	42.79	-31.21	74	52.27	36.87	14.72	61.07	300	0	P	H
		4894	39.16	-34.84	74	53.82	34.82	11.62	61.1	300	360	P	V
		7341	41.93	-32.07	74	51.87	36.41	14.72	61.07	300	360	P	V
Remark	3. No other spurious found. 4. All results are PASS against Peak and Average limit line.												

2.4GHz 2400~2483.5MHz

Emission below 1GHz

2.4GHz WIFI 802.11b (LF)

WIFI Ant.	Note	Frequency	Level	Over Limit	Limit Line	Read Level	Antenna Factor	Path 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)
2.4GHz 802.11b LF		30	16.12	-23.88	40	23.09	25.15	0.58	32.7			P	H
		137.67	11.46	-32.04	43.5	25.6	16.8	1.89	32.83			P	H
		536.34	21.32	-24.68	46	25.4	24.81	3.76	32.65			P	H
		594.54	22.18	-23.82	46	25.61	25.11	3.97	32.51			P	H
		739.07	24.29	-21.71	46	27.03	25.56	4.42	32.72			P	H
		923.37	27.5	-18.5	46	28.02	26.94	4.95	32.41	204	35	P	H
		30	17.28	-22.72	40	23.9	25.5	0.58	32.7			P	V
		297.72	14.94	-31.06	46	24.88	20.17	2.8	32.91			P	V
		534.4	21.94	-24.06	46	25.38	25.46	3.76	32.66			P	V
		679.9	23.04	-22.96	46	25.78	25.78	4.24	32.76			P	V
		824.43	25.4	-20.6	46	26.22	27.05	4.68	32.55			P	V
		903.97	26.9	-19.1	46	27.04	27.44	4.9	32.48	108	96	P	V
Remark	1. No other spurious found. 2. All results are PASS against limit line.												

Co-location

2.4GHz 2400~2483.5MHz

WIFI 802.11b CH03 + EDGE 850 (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 CH03 & EDGE850		2386.31	59.19	-14.81	74	52.4	32.15	8.09	33.45	100	122	P	H
		2389.56	44.06	-9.94	54	37.27	32.15	8.09	33.45	100	122	A	H
	*	2484.94	54.83	-19.17	74	48.24	31.8	8.22	33.43	100	122	P	H
	*	2483.86	43.42	-10.58	54	36.83	31.8	8.22	33.43	100	122	A	H
		2422	105.49	-	-	98.69	32.1	8.14	33.44	100	122	P	H
		2424	102.03	-	-	95.23	32.1	8.14	33.44	100	122	A	H
		2386.31	59.34	-14.66	74	51.2	33.5	8.09	33.45	338	292	P	V
		2389.04	44.52	-9.48	54	36.38	33.5	8.09	33.45	338	292	A	V
	*	2485.54	55.45	-18.55	74	47.8	32.86	8.22	33.43	338	292	P	V
	*	2483.98	44.09	-9.91	54	36.44	32.86	8.22	33.43	338	292	A	V
		2422	102.96	-	-	95.02	33.24	8.14	33.44	338	292	P	V
		2424	99.9	-	-	91.96	33.24	8.14	33.44	338	292	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 CH03 + EDGE 850 (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 CH03 & EDGE850		4842	52.58	-21.42	74	67.17	35	11.55	61.14	100	116	P	H
		4842	50.75	-3.25	54	65.34	35	11.55	61.14	100	116	A	H
		7266	42.78	-31.22	74	52.41	36.85	14.6	61.08	300	0	P	H
		4842	48.2	-25.8	74	62.96	34.83	11.55	61.14	300	360	P	V
		7266	42.15	-31.85	74	52.26	36.37	14.6	61.08	300	360	P	V
Remark	1. No other spurious found. 2. All results are PASS against Peak and Average 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 Ant. 1	Note	Frequency (MHz)	Level (dBμV/m)	Over Limit (dB)	Limit Line (dBμV/m)	Read Level (dBμV)	Antenna Factor (dB/m)	Path Loss (dB)	Preamp Factor (dB)	Ant Pos (cm)	Table Pos (deg)	Peak Avg. (P/A)	Pol. (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. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
2. Level(dBμV/m) =

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

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

For Peak Limit @ 2390MHz:

1. Level(dBμV/m)

= Antenna Factor(dB/m) + Path 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) + Path 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)

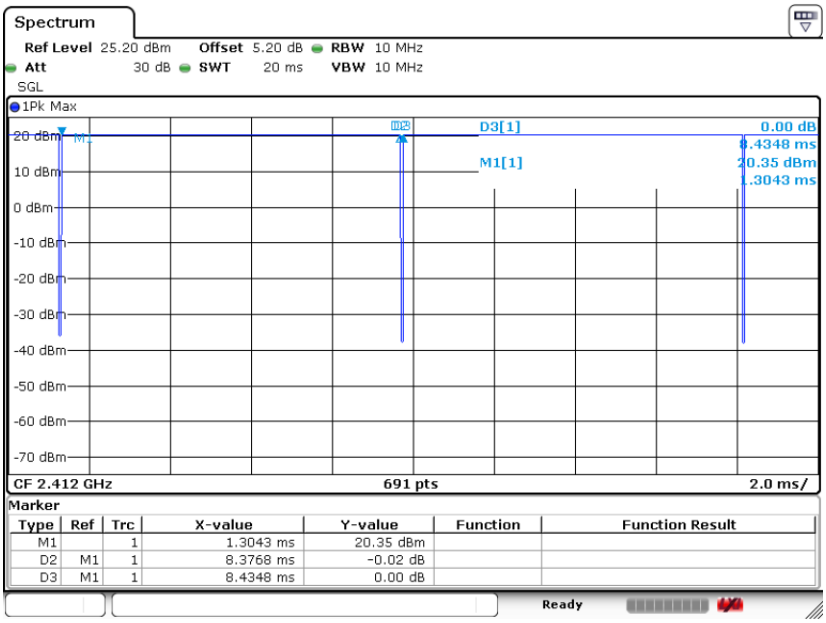
= -10.46(dB)

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

Appendix D. Duty Cycle Plots

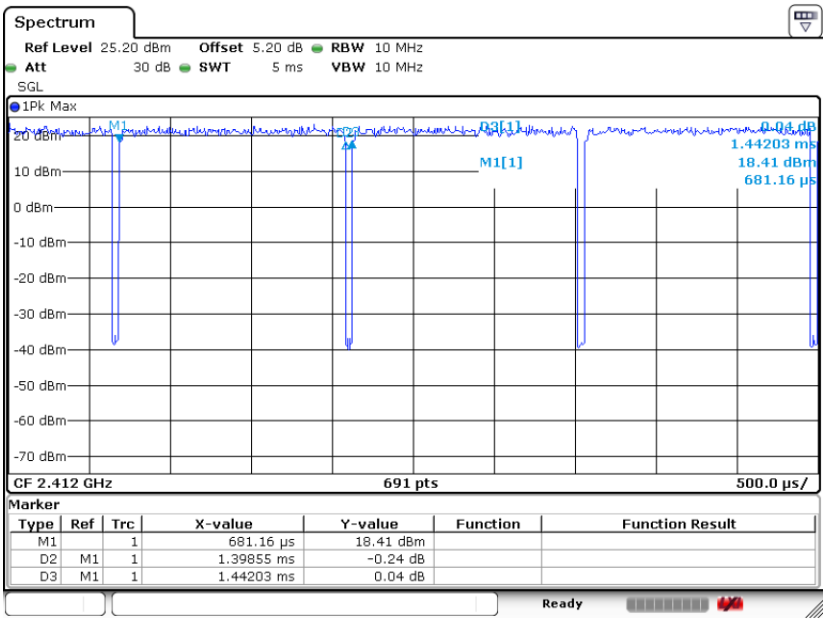
Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting
802.11b	99.31	-	-	10Hz
802.11g	96.98	1.39	0.7150	0.75KHz
802.11n HT20	96.75	1.29	0.7709	0.82KHZ
802.11n HT40	94.12	0.65	1.5367	1.6KHZ

802.11b



Date: 27.MAY.2021 18:01:06

802.11g



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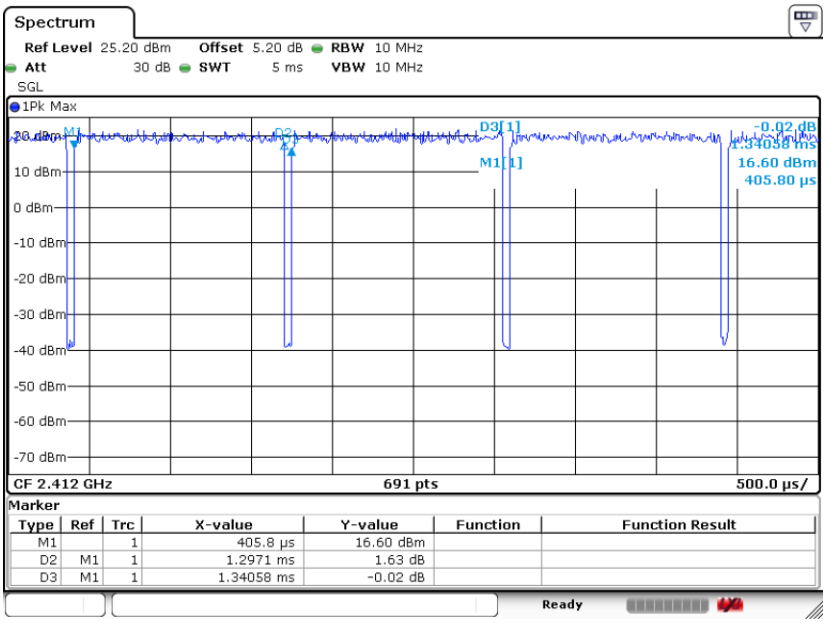
802.11n HT20



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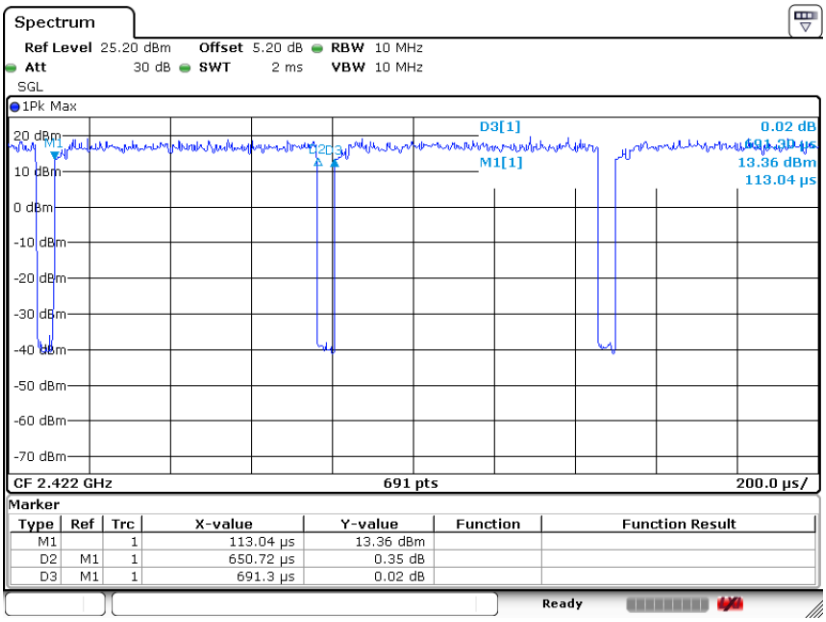
802.11n HT40



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