FCC RF Test Report

APPLICANT	:	Ring LLC
EQUIPMENT	:	Chime (3rd Gen)
BRAND NAME	:	ring
MODEL NAME	:	6HFYAB
FCC ID	:	2AEUPBHACM031
STANDARD	:	FCC Part 15 Subpart C §15.247
CLASSIFICATION	:	(DTS) Digital Transmission System
TEST DATE(S)	:	Jun. 21, 2025 ~ Aug. 22, 2025

We, Sporton International Inc. (Kunshan), 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 Inc. (Kunshan), the test report shall not be reproduced except in full.

Jason Jia

Approved by: Jason Jia

ACCREDITED Cert #5145.02

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

TABLE OF CONTENTS

REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR560332-01B	Rev. 01	Initial issue of report	Sep. 05, 2025

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	-	Report Only	-
3.2	15.247(b)	Conducted Output Power	≤ 30dBm	Pass	-
3.3	15.247(e)	Power Spectral Density	≤ 8dBm/3kHz	Pass	-
3.4	15.247(d)	Conducted Band Edges	≤ 30dBc	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 3.05 dB at 2483.50 MHz
3.6	15.207	AC Conducted Emission	15.207(a)	Pass	Under limit 12.16 dB at 0.443 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

Conformity Assessment Condition:

1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
2. The measurement uncertainty please refer to each test result in the section “Measurement Uncertainty”

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

1 General Description

1.1 Applicant

Ring LLC
12515 Cerise Ave, Hawthorne, CA 90250, USA

1.2 Product Feature of Equipment Under Test

Product Feature	
Equipment	Chime (3rd Gen)
Brand Name	ring
Model Name	6HFYAB
FCC ID	2AEUPBHACM031
SN Code	Conducted: GN44VL015285003D Conduction: GN44VL0152850039 Radiation: GN44VL0152850035
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.

1.3 Product Specification of Equipment Under Test

Standards-related Product Specification	
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz
Maximum Output Power to antenna	802.11b : 18.93 dBm (0.0782 W) 802.11g : 17.97 dBm (0.0627 W) 802.11n HT20 : 16.73 dBm (0.0471 W) 802.11ax HE20 : 16.77 dBm (0.0475 W)
99% Occupied Bandwidth	802.11b : 12.84MHz 802.11g : 17.13MHz 802.11n HT20 : 17.88MHz 802.11ax HE20 : 18.63MHz
Antenna Type / Gain	PIFA Antenna type with gain 3 dBi
Type of Modulation	802.11b : DSSS (DBPSK / DQPSK / CCK) 802.11g/n : OFDM (BPSK / QPSK / 16QAM / 64QAM) 802.11ax : OFDM (BPSK / QPSK / 16QAM / 64QAM / 256QAM / 1024QAM)

1.4 Modification of EUT

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

1.5 Testing Location

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

Test Firm	Sporton International Inc. (Kunshan)		
Test Site Location	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China TEL : +86-512-57900158		
Test Site No.	**Sporton Site No.**	**FCC Designation No.**	**FCC Test Firm Registration No.**
	CO01-KS 03CH05-KS TH01-KS	CN1257	314309

1.6 Test Software

Item	Site	Manufacturer	Name	Version
1.	TH01-KS	SPORTON	FCC 15C-15E Test Tools Ver10.0_210607	10.0
2.	03CH05-KS	AUDIX	E3	210616
3.	CO01-KS	R&S	EMC32	10.50.00

1.7 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 C63.10-2020

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

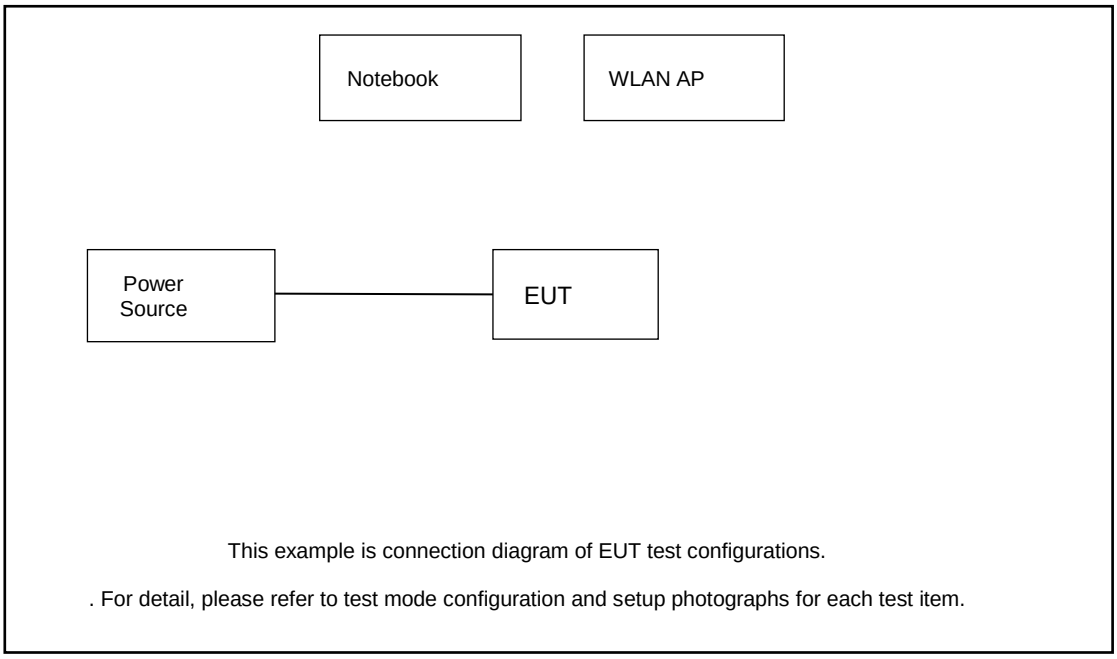
Final test modes are considering the modulation and worse data rates as below table.

Modulation	Data Rate
802.11b	**1 Mbps**
802.11g	**6 Mbps**
802.11ax HE20	**MCS0**

Test Cases	
AC Conducted Emission	Mode 1 :WIFI Link + AC Power
Remark: For Radiated Test Cases, The tests were performance with Notebook.	

2.3 Connection Diagram of Test System

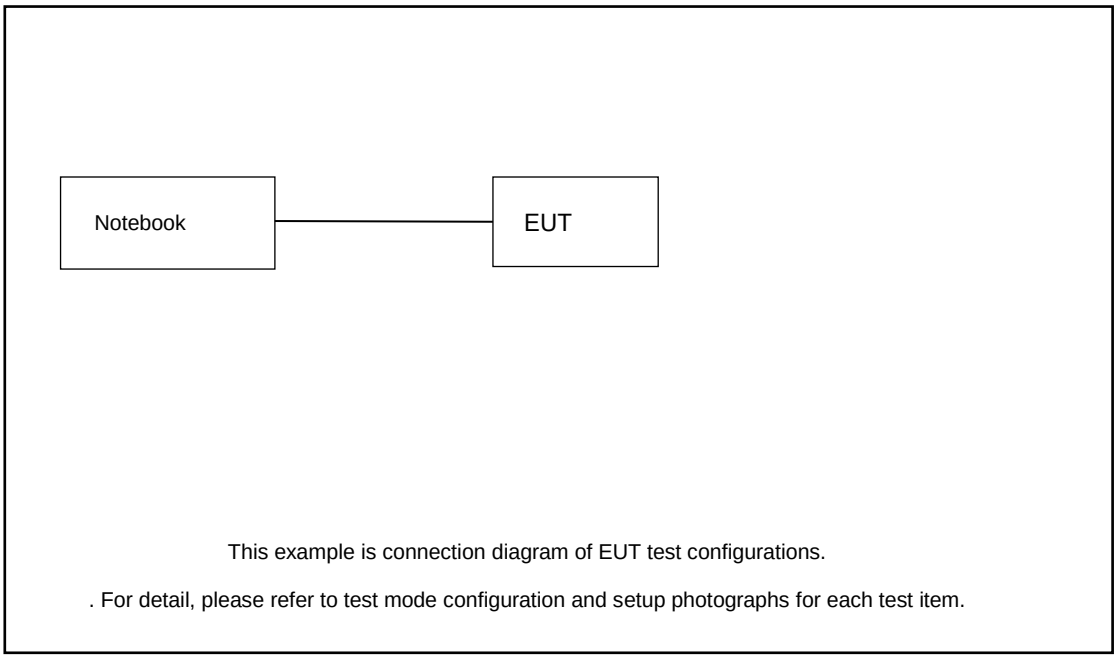
For AC Conducted Emission:



This example is connection diagram of EUT test configurations.

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

For Radiated Emission:



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.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m

2.5 EUT Operation Test Setup

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

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 and attenuator factor.

Offset = RF cable loss + attenuator factor.

Following shows an offset computation example with cable loss 0.80 dB and 10dB attenuator.

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

= 0.80 + 10 = 10.80 (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.

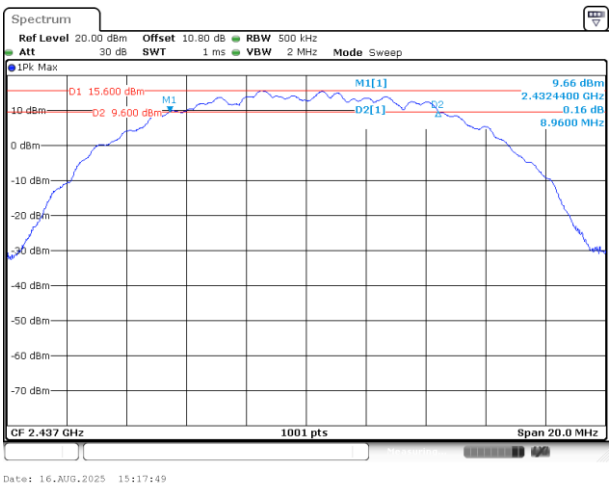
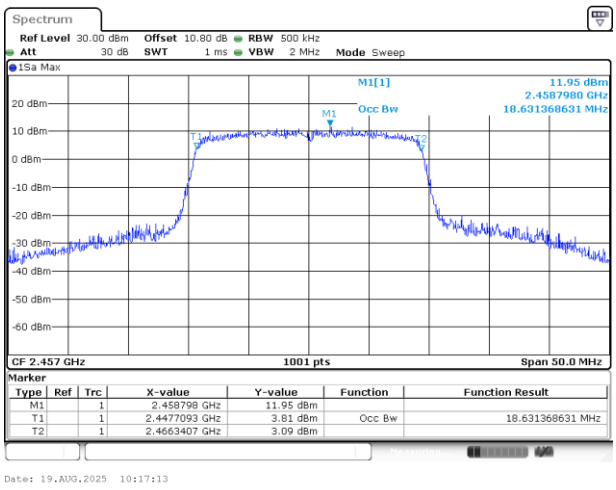
3.1.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.8.1 for 6dB BW and 6.9.3 for 99% occupied bandwidth measurements
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) = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. Set the Video bandwidth (VBW) ≥ 3*RBW. Detector = Peak. 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) = 1%~5% of OBW and set the Video bandwidth (VBW) approximately three times the RBW.
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 output power is 30dBm. If transmitting antenna with directional gain greater than 6dBi is used, the 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.

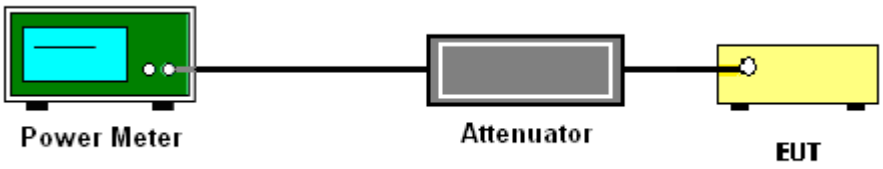
3.2.2 Measuring Instruments

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 C63.10-2020 clause 11.9.1.2 PKPM1 Peak power meter or ANSI C63.10-2020 clause 11.9.2.3.1 Method AVGPM 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

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.

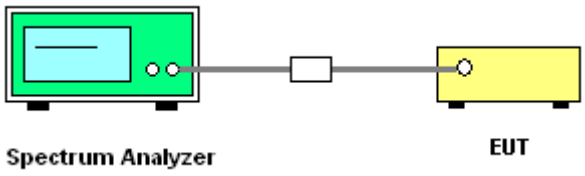
3.3.2 Measuring Instruments

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 C63.10-2020 clause 11.10.5 Method AVGPSD-2.
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 = power averaging (rms), Sweep time = auto couple. Use the peak marker function to determine the maximum power level.
6. Ensure that the number of measurement points in the sweep ≥ [2 × span / RBW].
7. Add [10 log (1 / D)], where D is the duty cycle, to the measured PSD to compute the average PSD during the actual transmission time.
8. Measure and record the results in the test report.

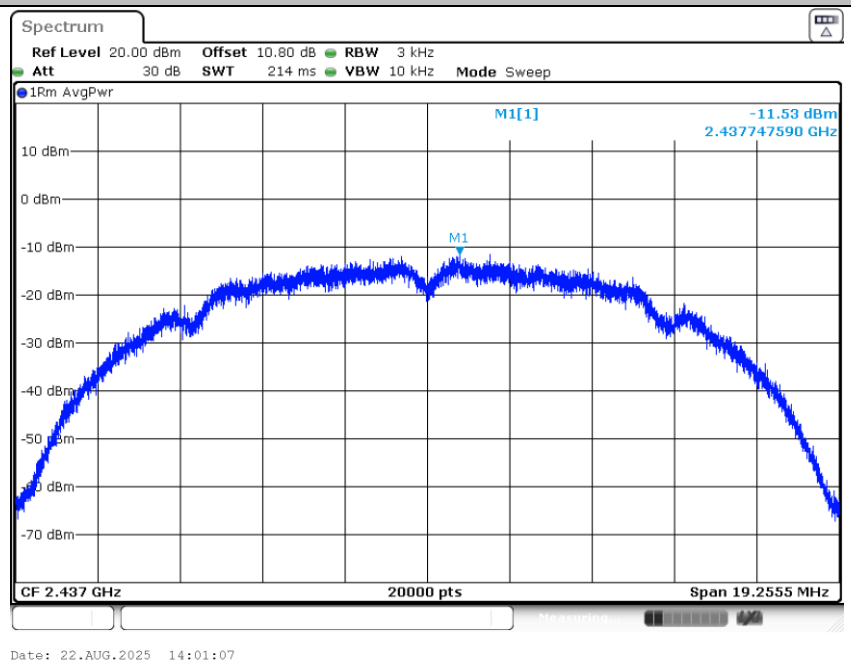
3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

Worst Case Power Density



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.

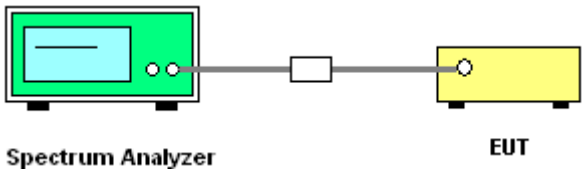
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

1. The testing follows ANSI C63.10-2020 clause 11.11.3
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.

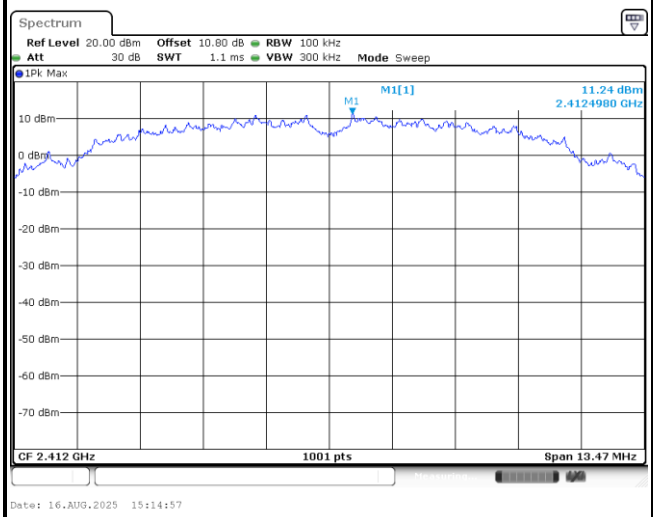
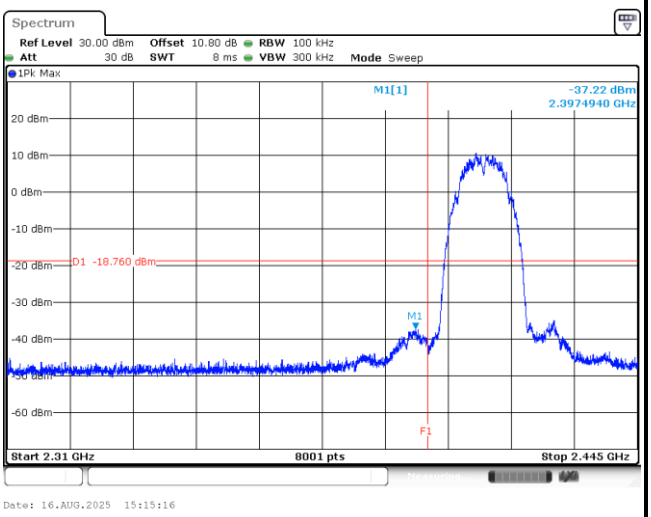
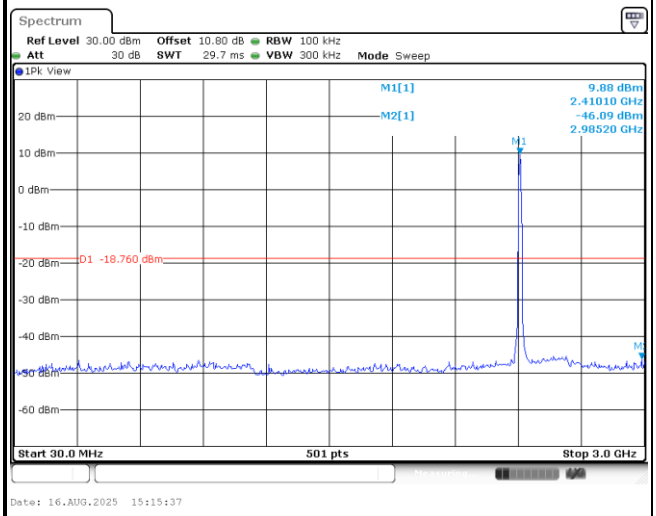
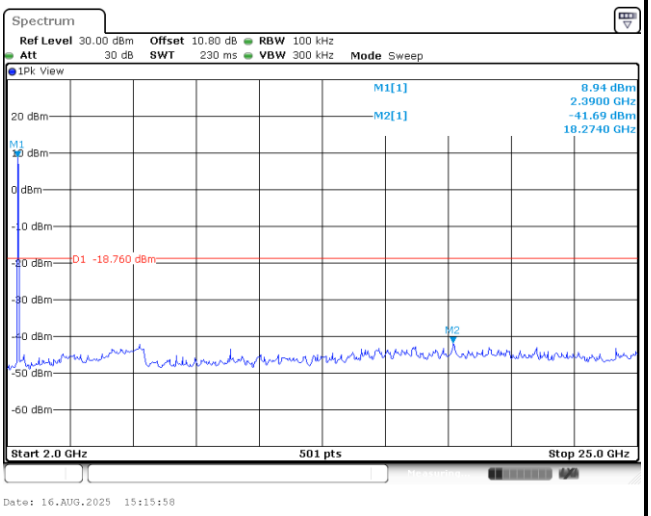
3.4.4 Test Setup



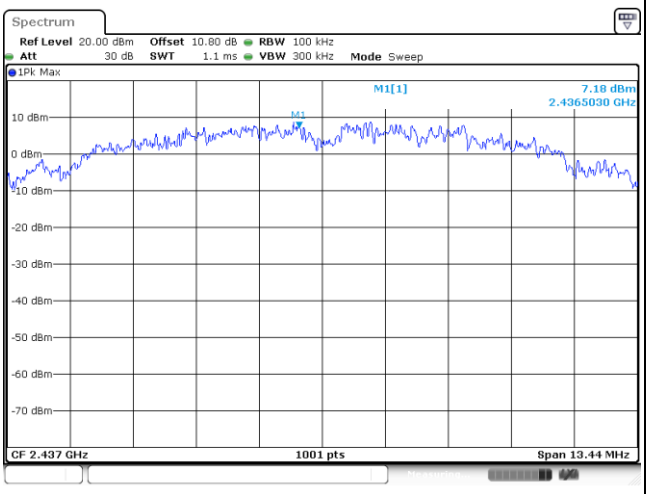
3.4.5 Test Result of Conducted Band Edges and Spurious Emission

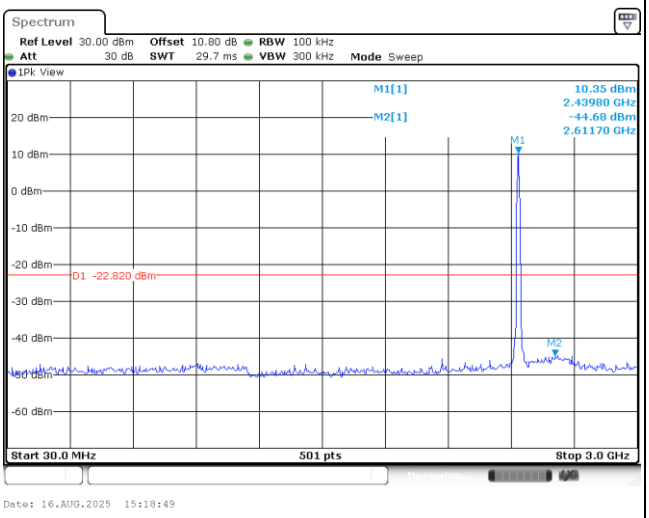
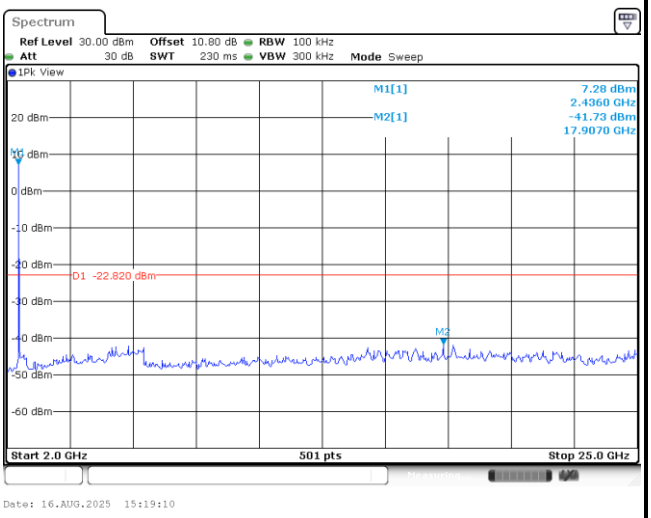
Test Engineer :	Smile	**Temperature :**	23~25℃
		Relative Humidity :	41~42%

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

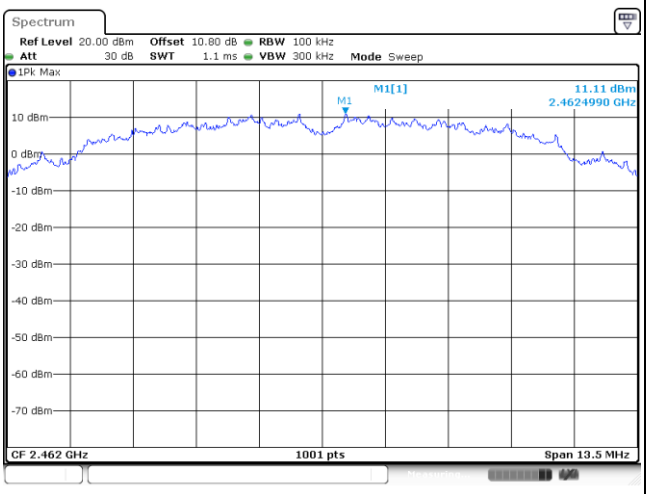
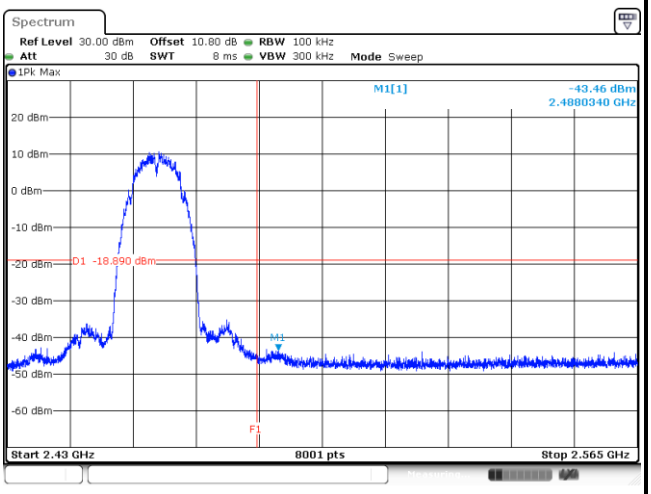
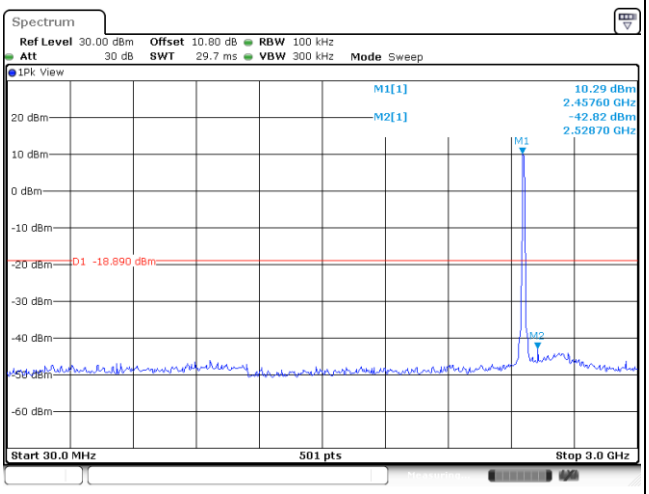
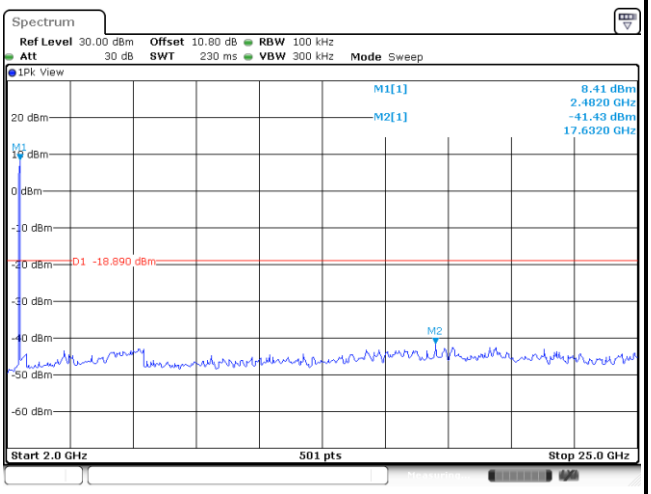
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11b	Test Channel :	06

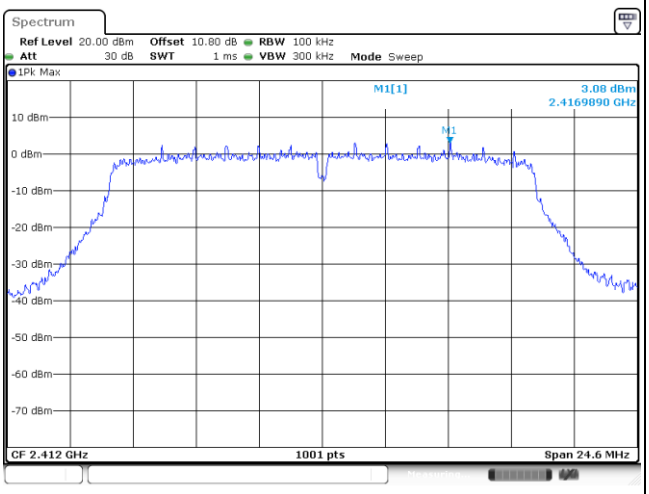
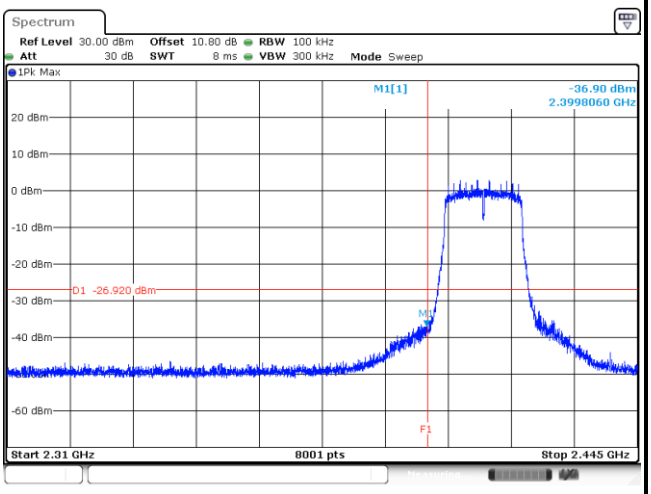
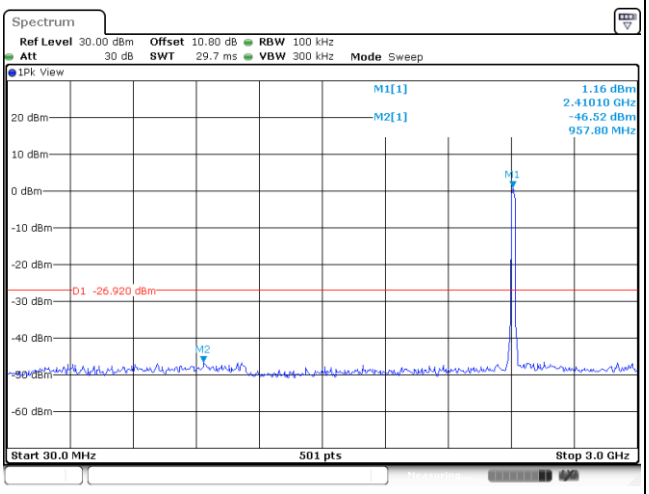
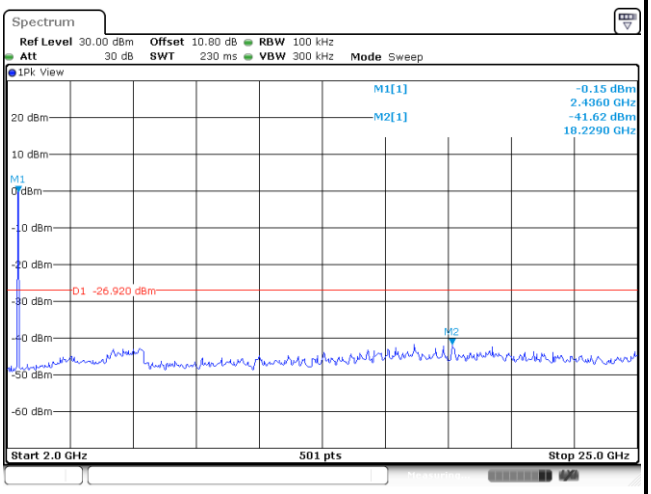
100kHz PSD reference Level	Channel Plot
	

Spurious Emission Plot-1	Spurious Emission Plot-2
	

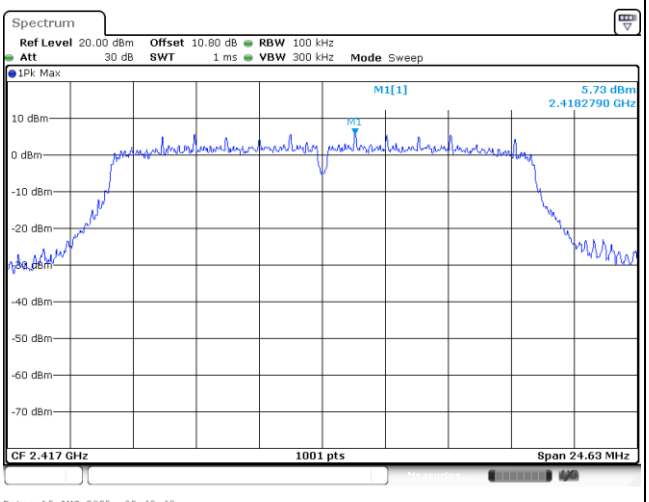
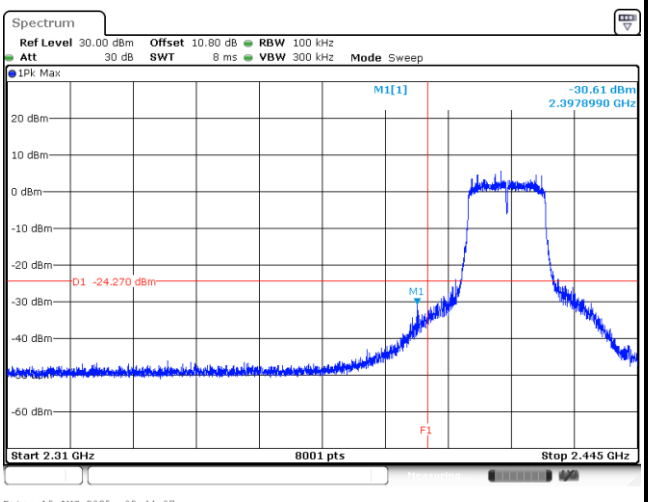
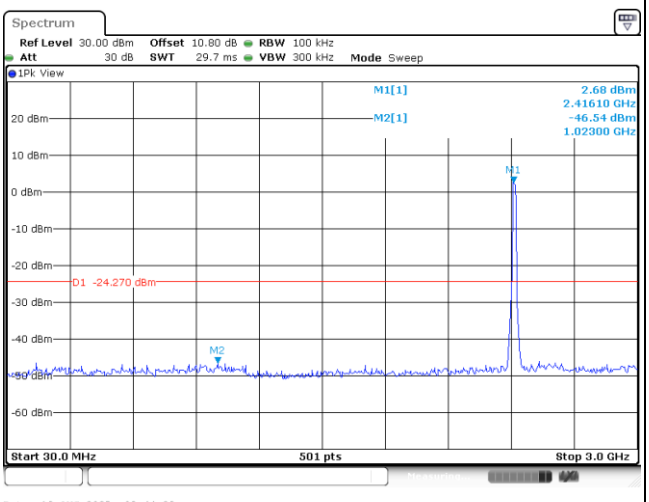
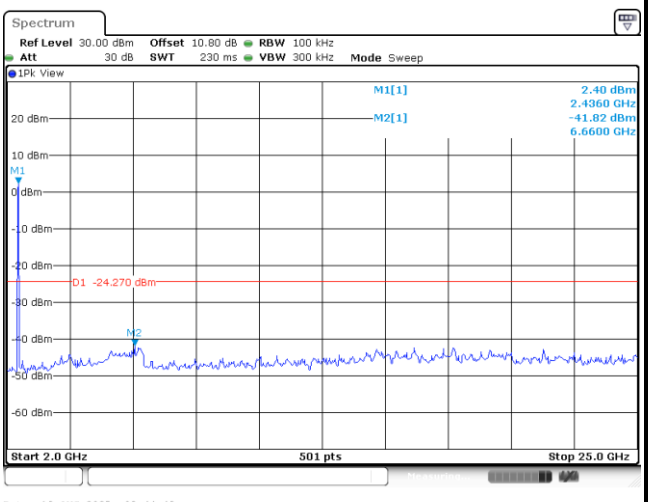
Test Mode :	802.11b	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

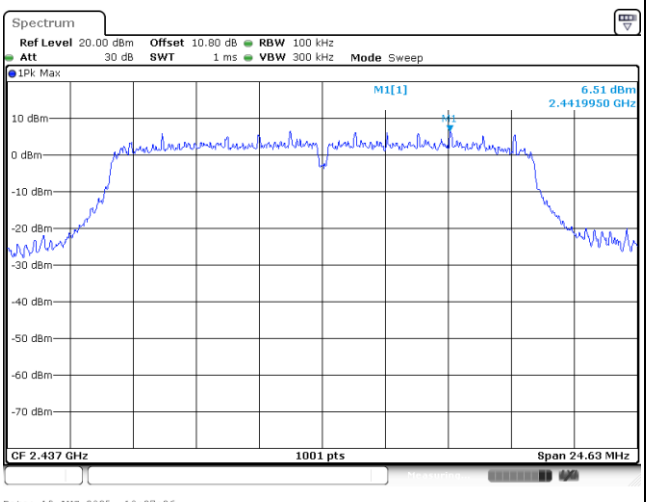
Test Mode :	802.11g	Test Channel :	01

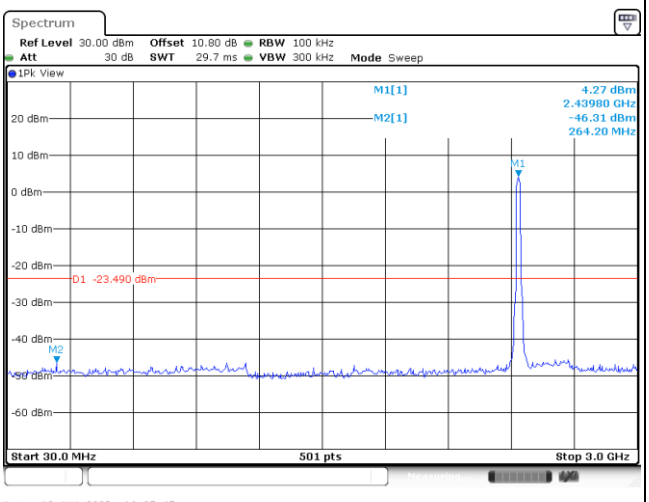
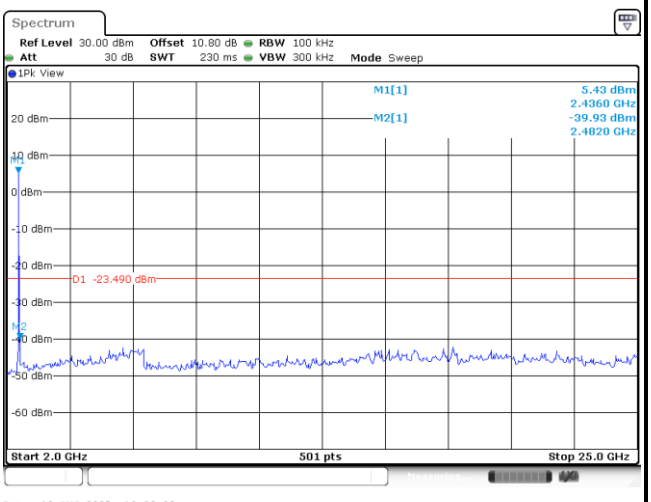
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11g	Test Channel :	02

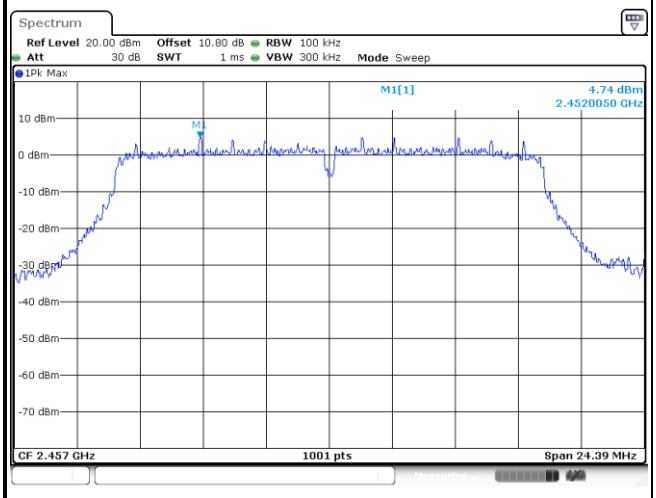
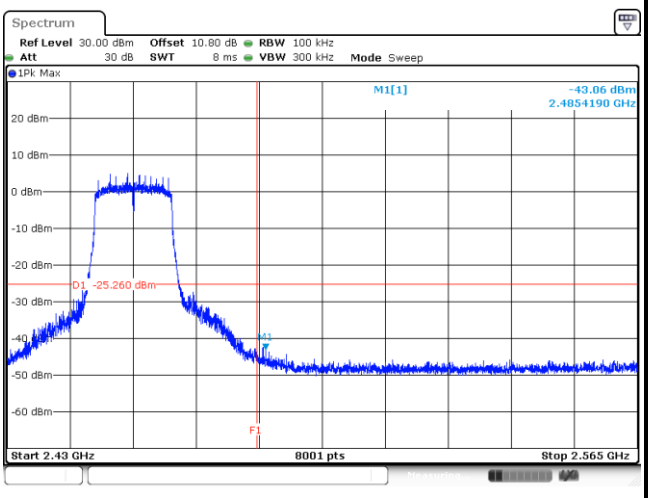
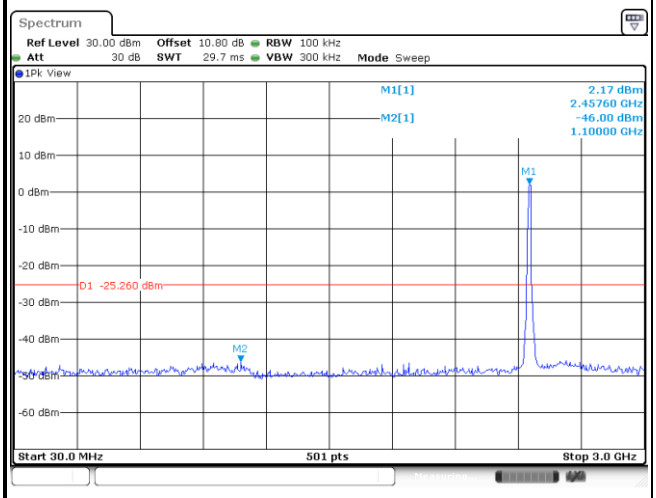
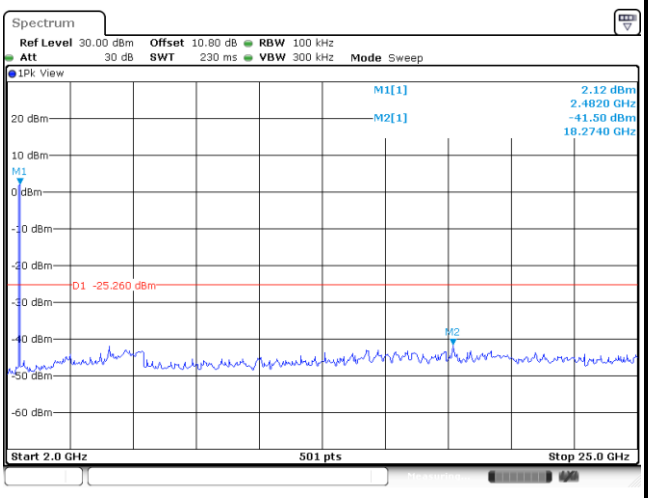
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11g	Test Channel :	06

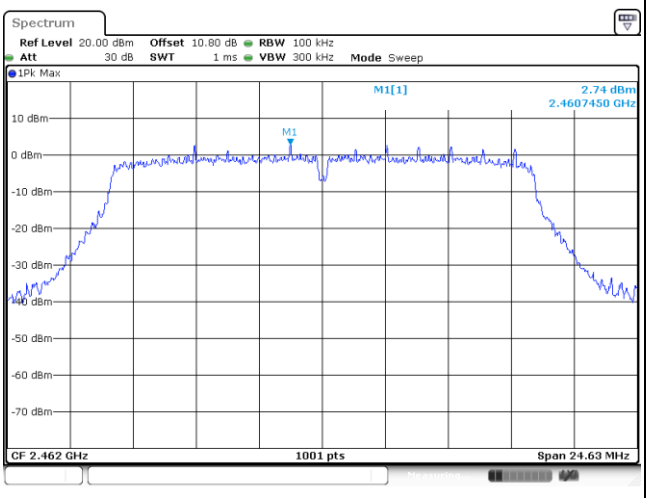
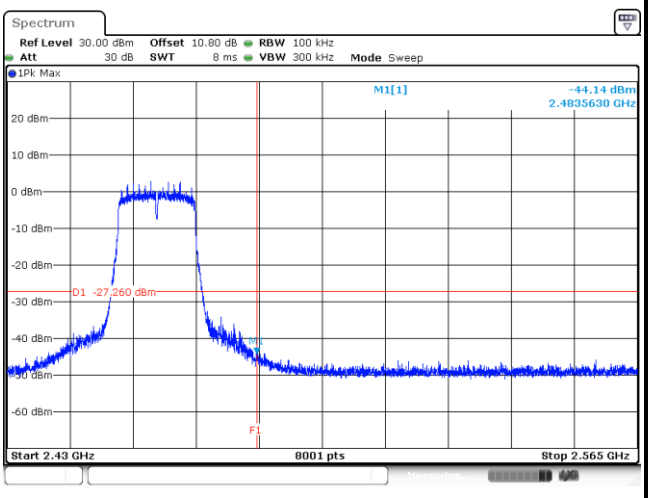
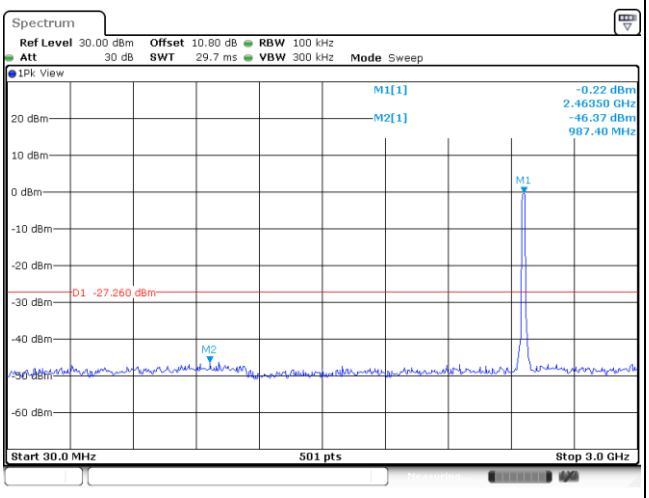
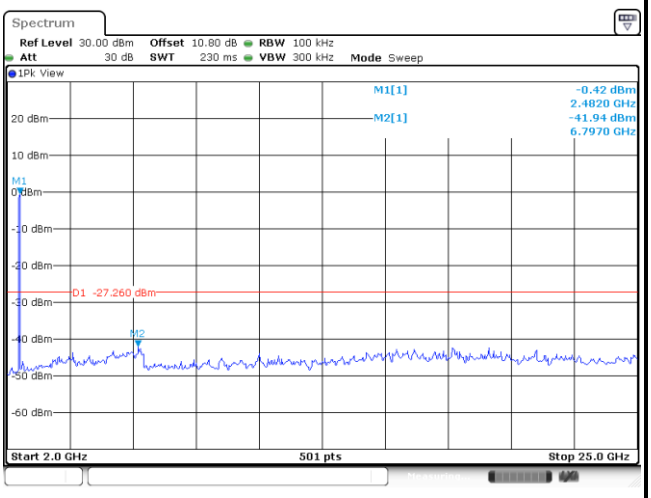
100kHz PSD reference Level	Channel Plot
	

Spurious Emission Plot-1	Spurious Emission Plot-2
	

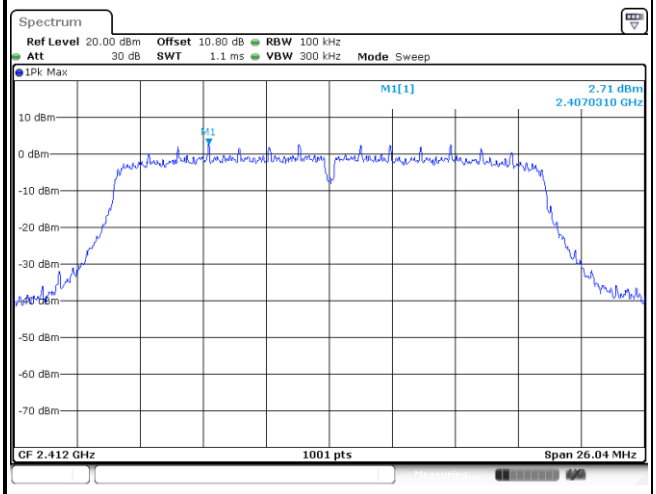
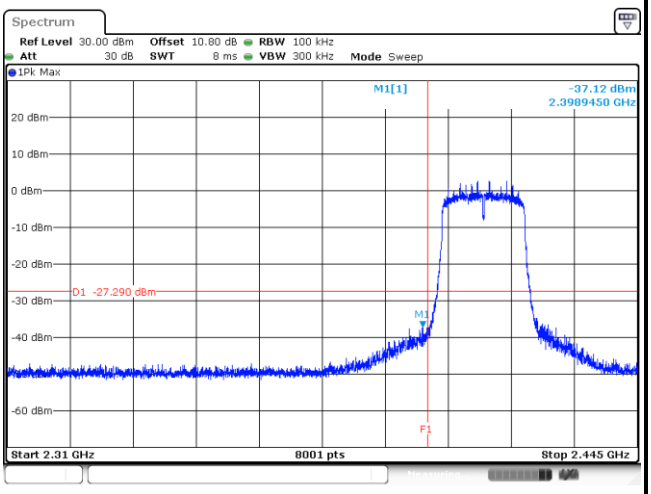
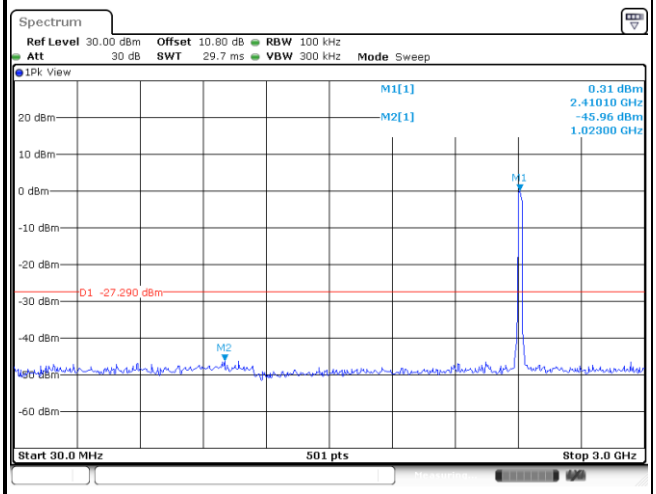
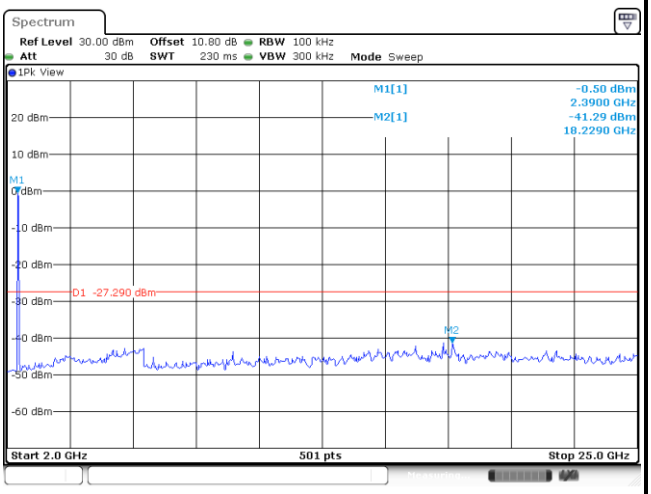
Test Mode :	802.11g	Test Channel :	10

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

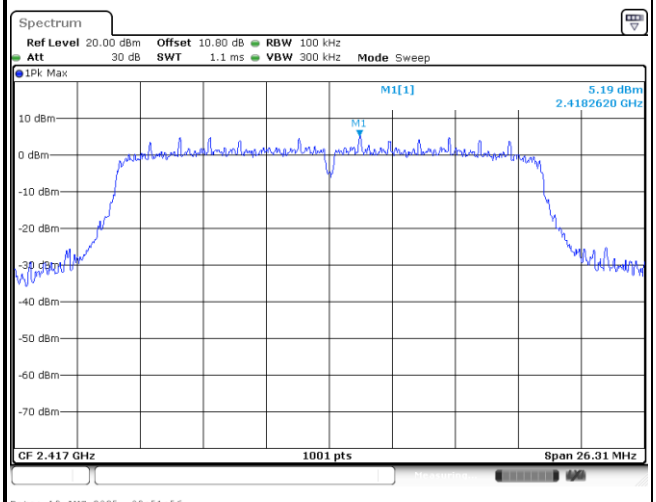
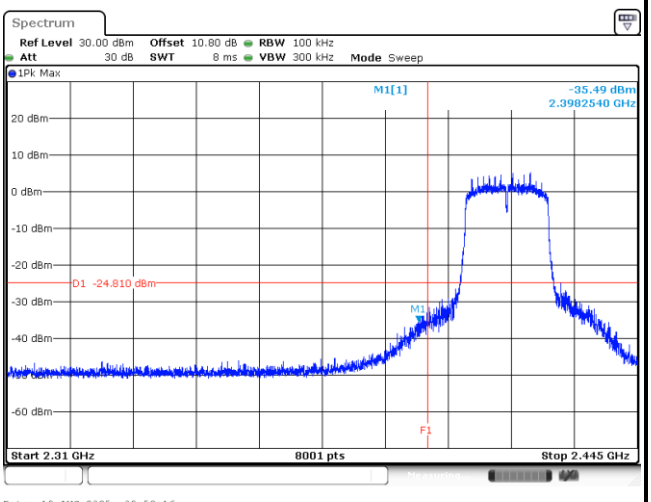
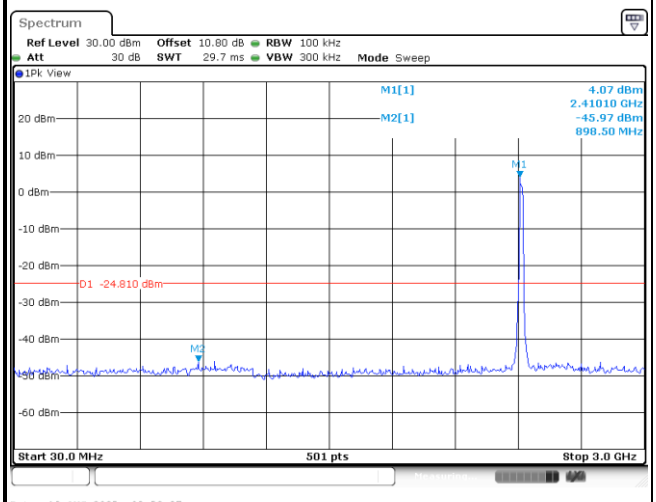
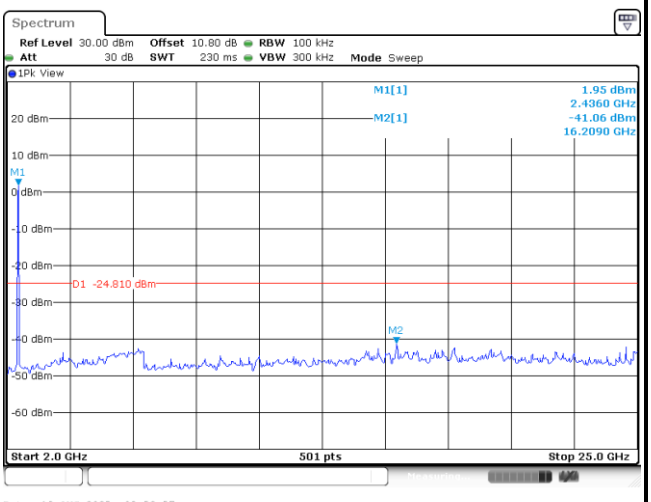
Test Mode :	802.11g	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

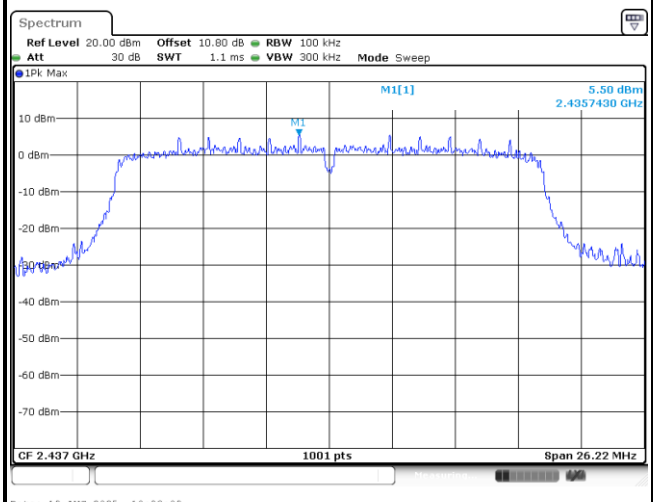
Test Mode :	802.11n HT20	Test Channel :	01

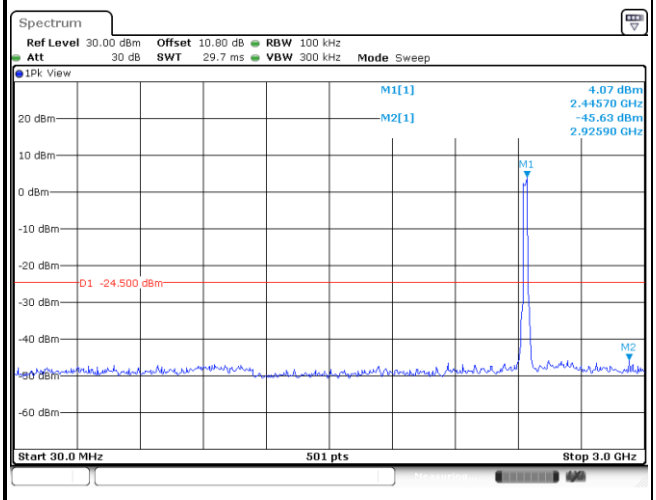
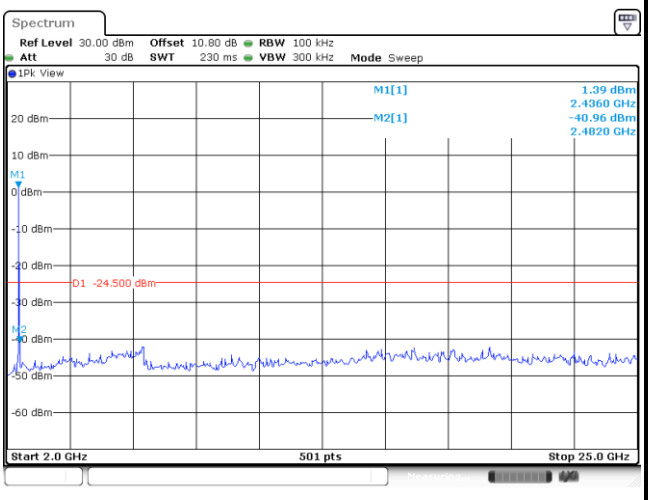
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11n HT20	Test Channel :	02

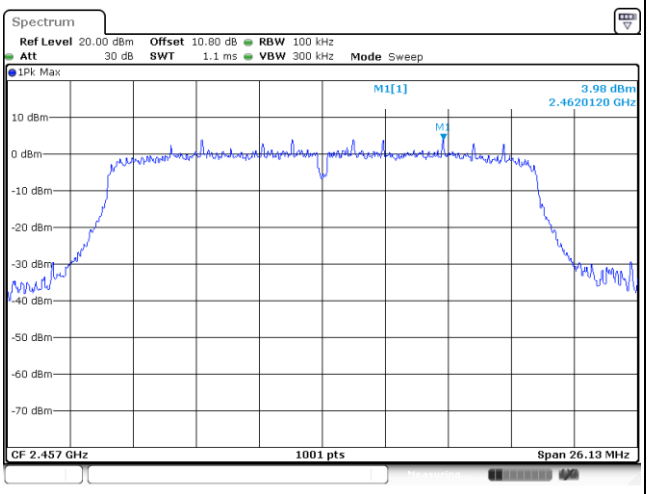
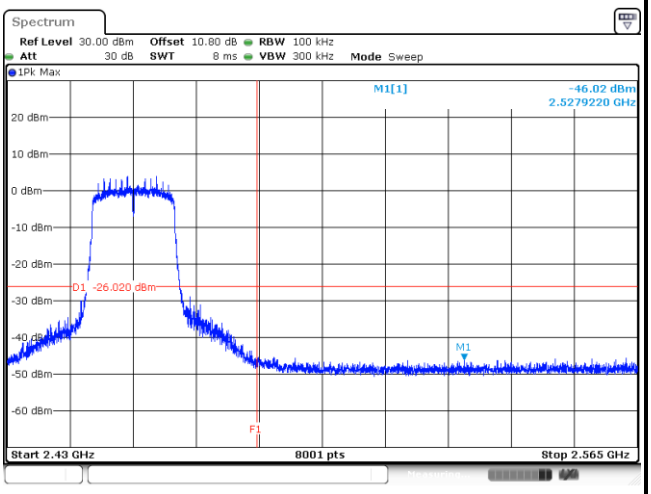
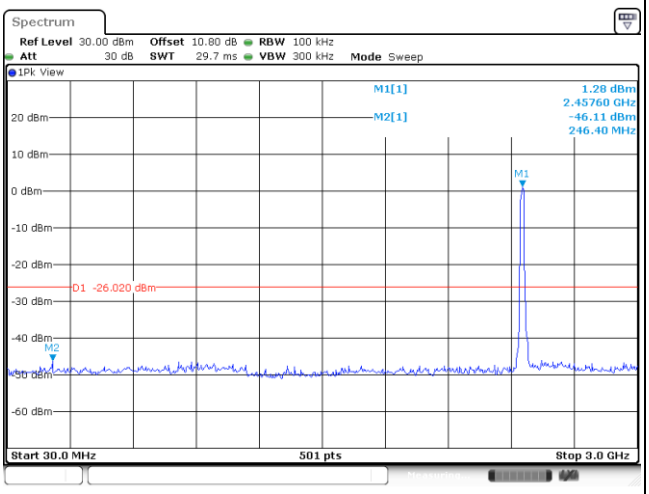
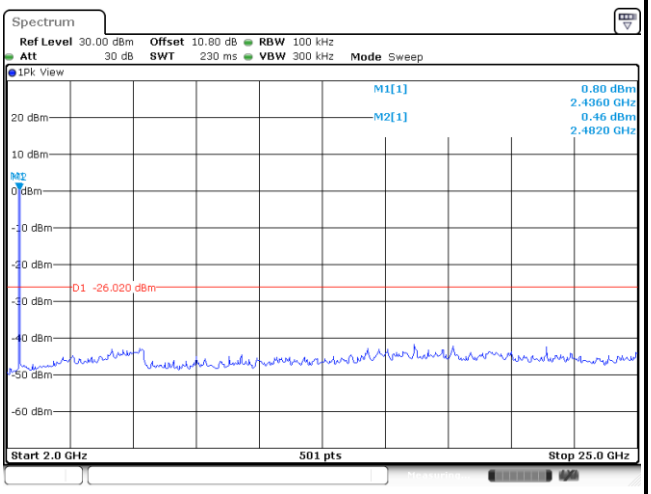
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11n HT20	Test Channel :	06

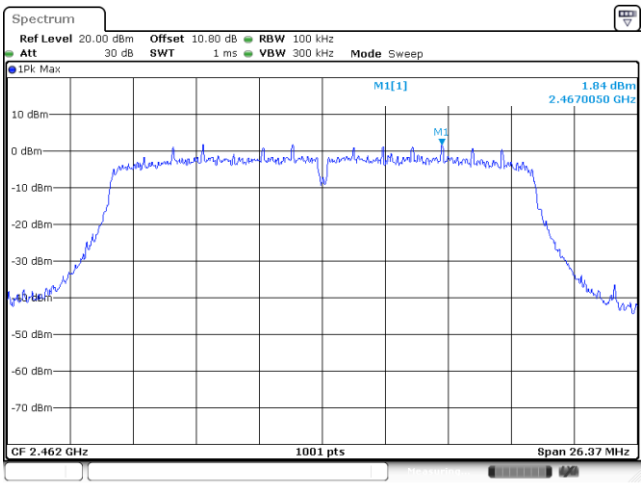
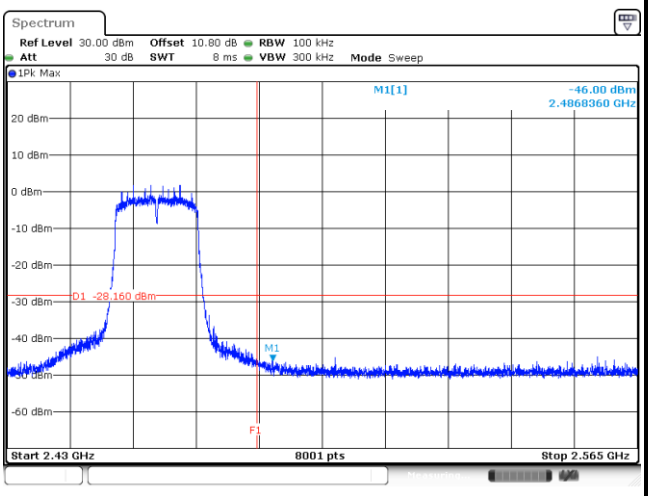
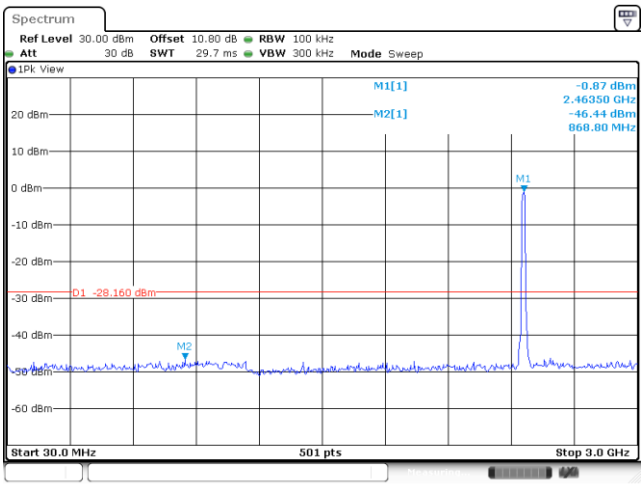
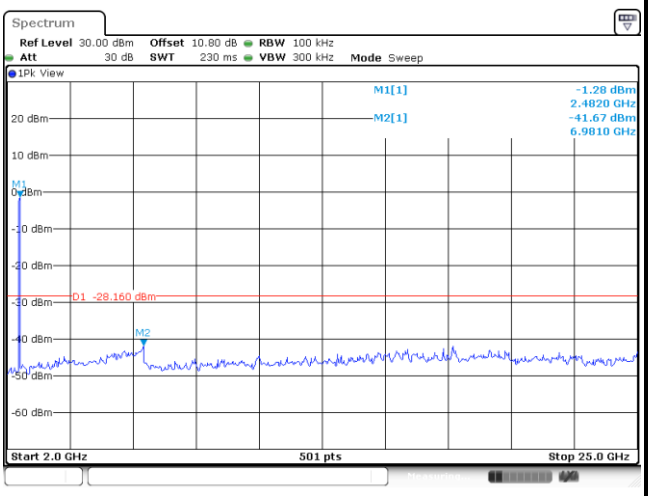
100kHz PSD reference Level	Channel Plot
	

Spurious Emission Plot-1	Spurious Emission Plot-2
	

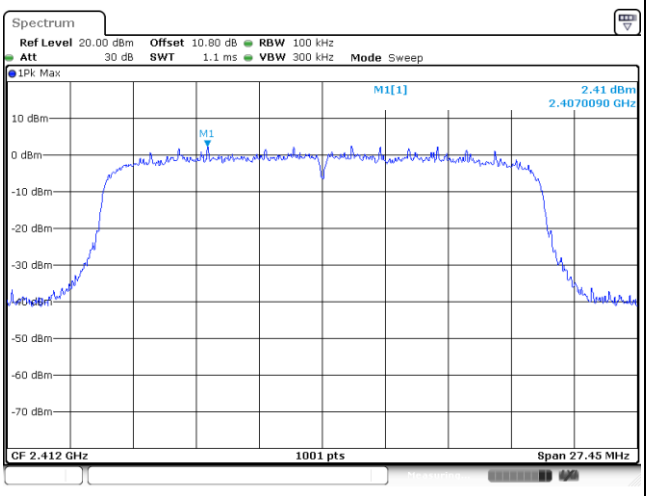
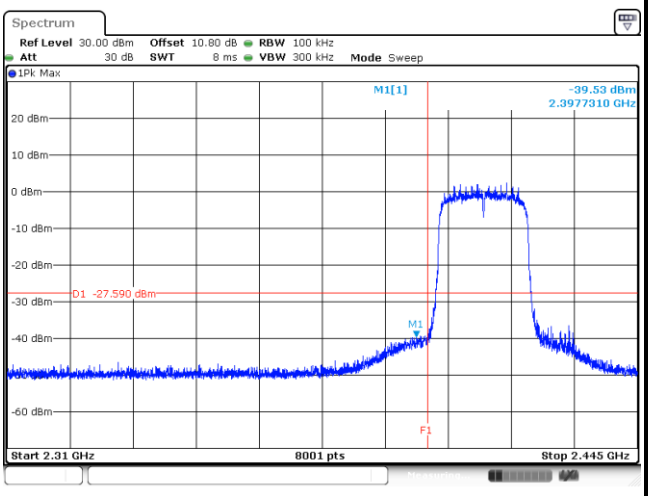
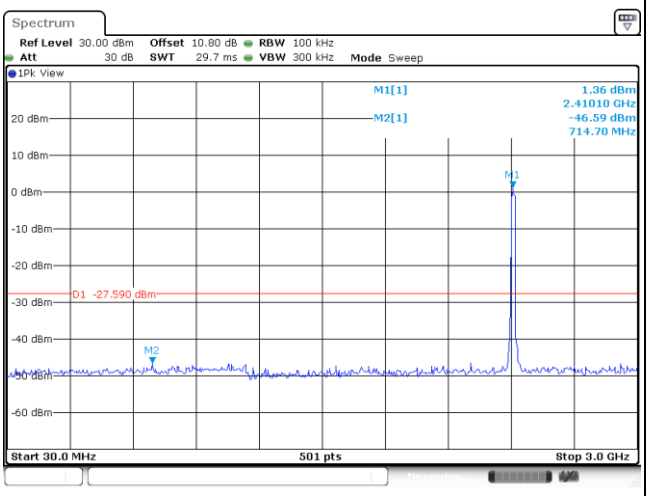
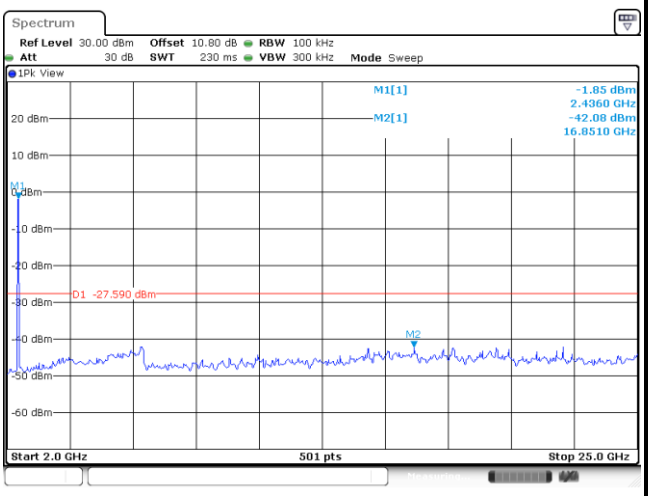
Test Mode :	802.11n HT20	Test Channel :	10

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

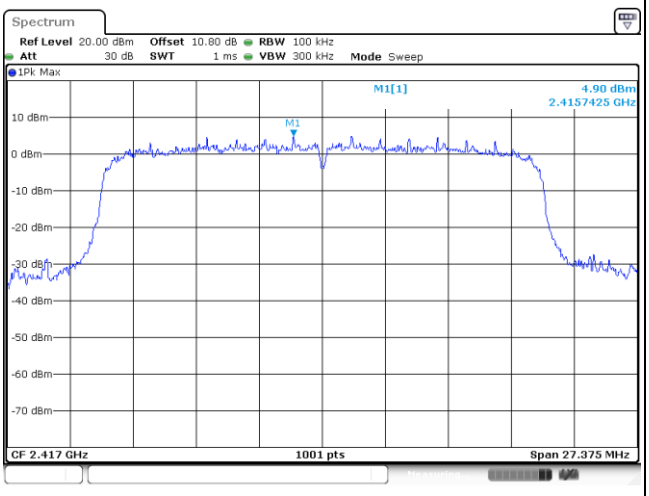
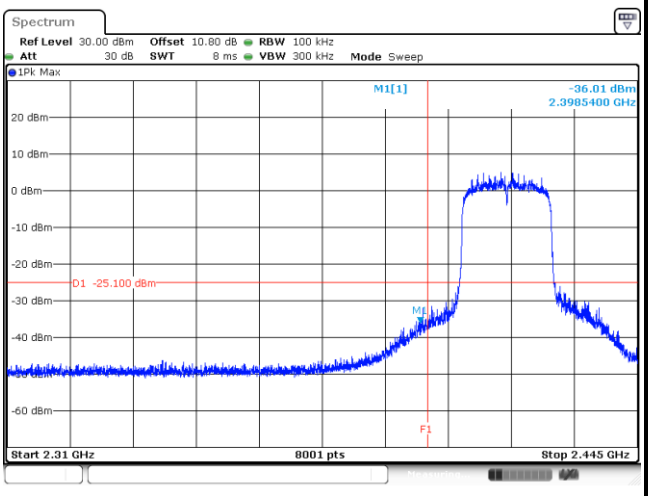
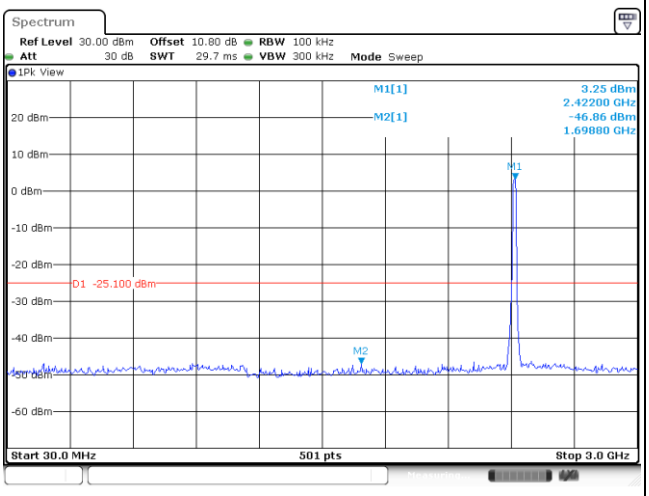
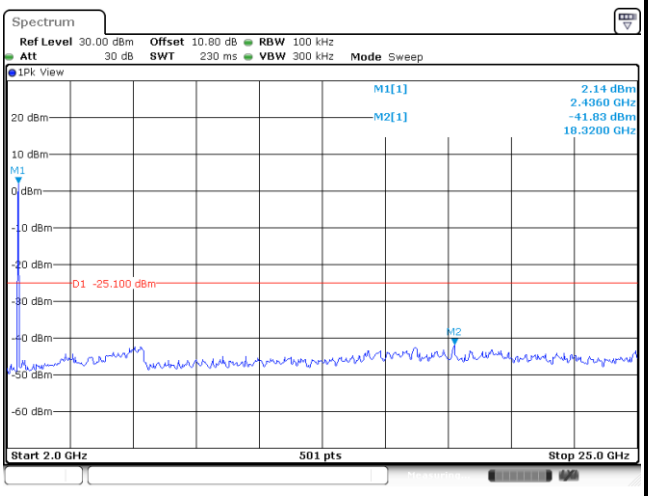
Test Mode :	802.11n HT20	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

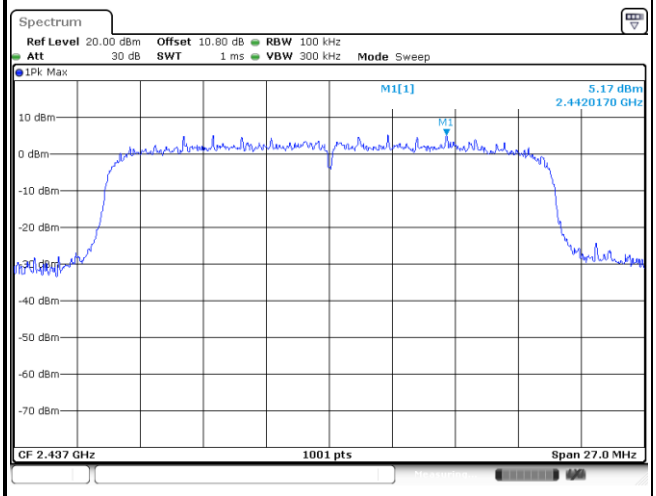
Test Mode :	802.11ax HE20	Test Channel :	01

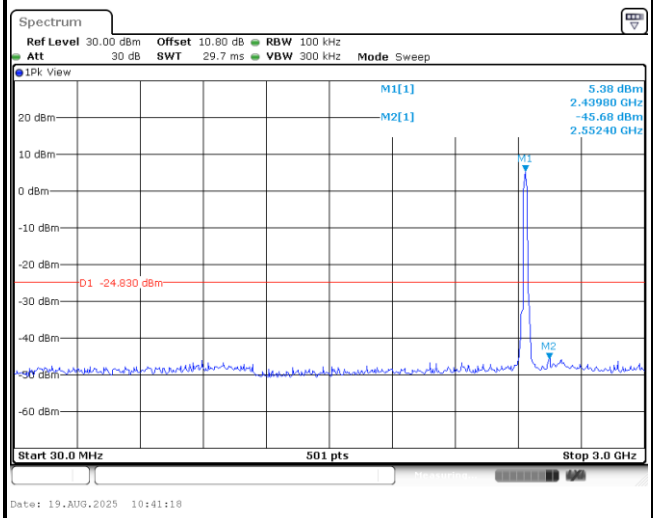
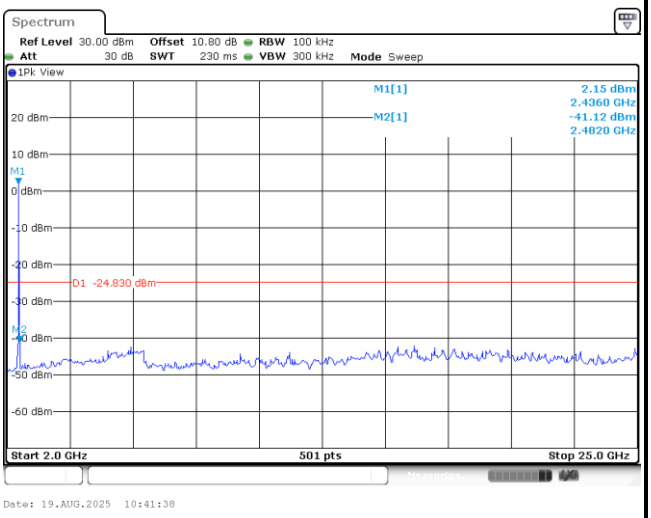
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11ax HE20	Test Channel :	02

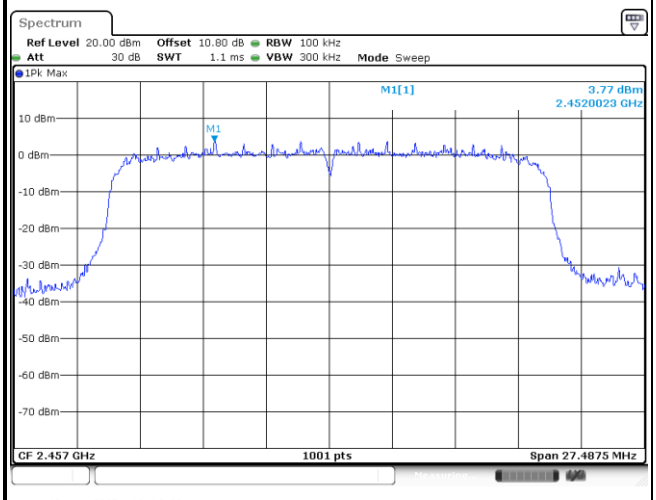
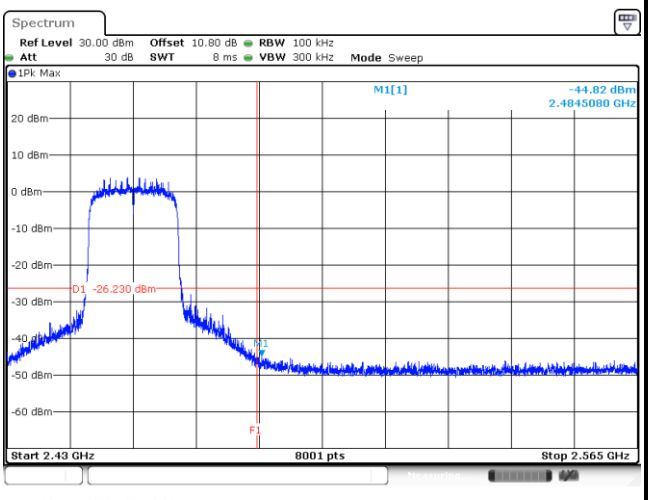
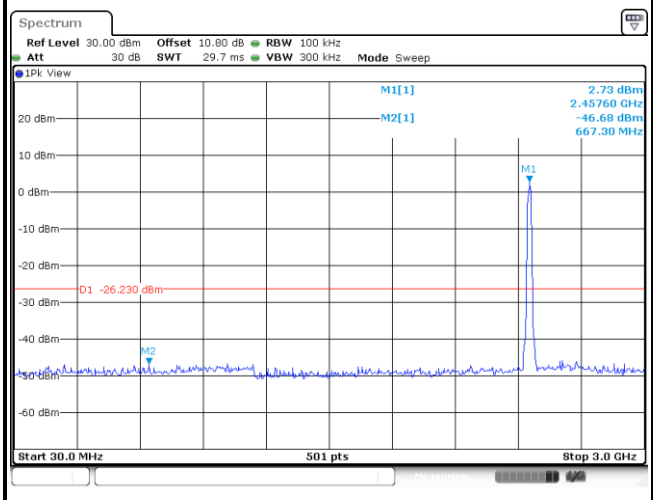
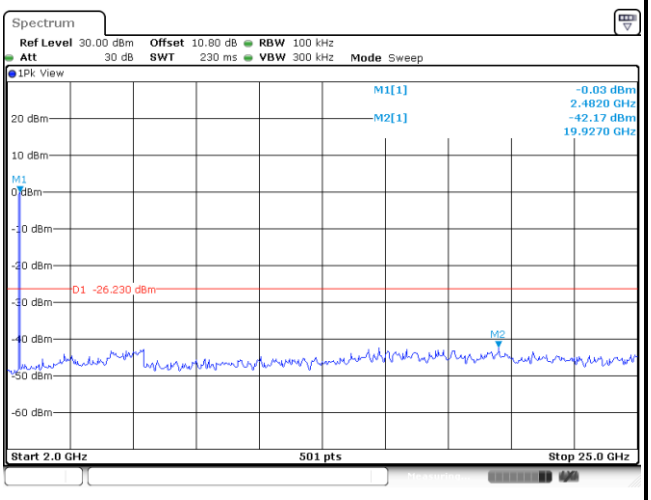
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11ax HE20	Test Channel :	06

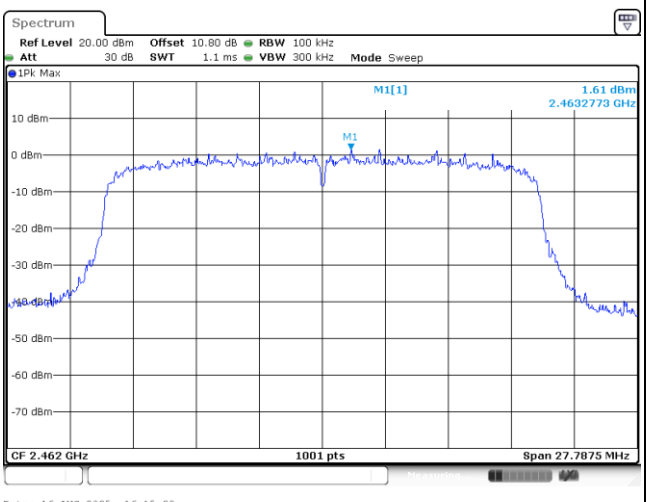
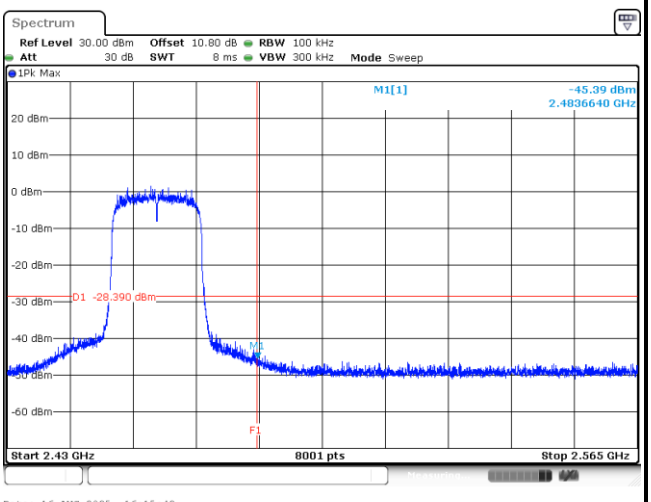
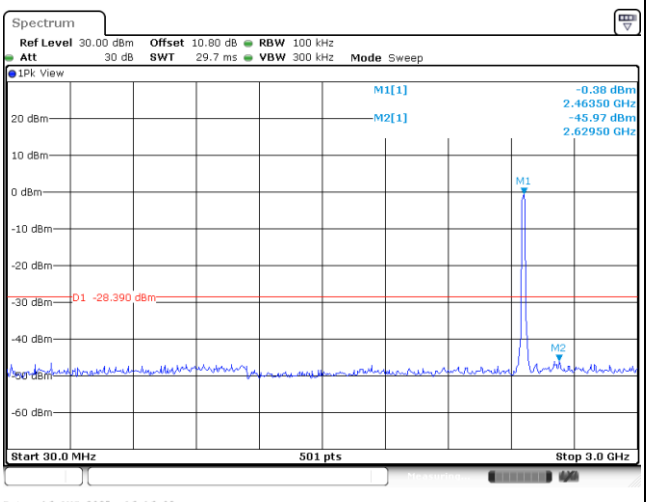
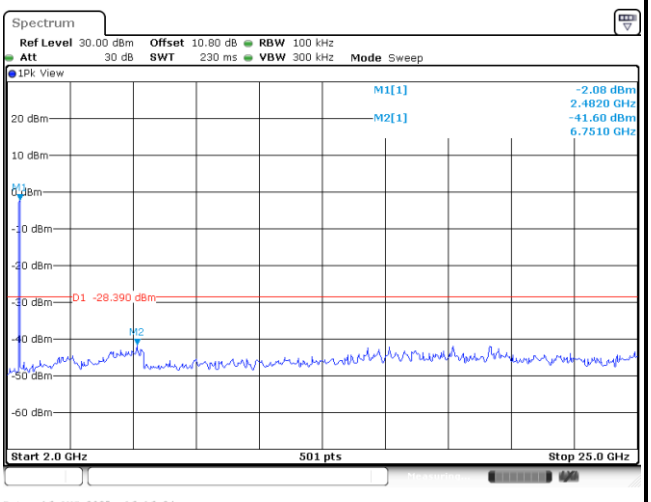
100kHz PSD reference Level	Channel Plot
	

Spurious Emission Plot-1	Spurious Emission Plot-2
	

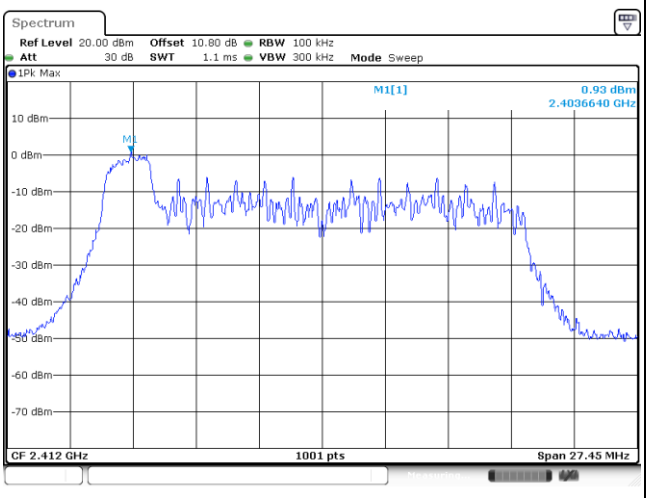
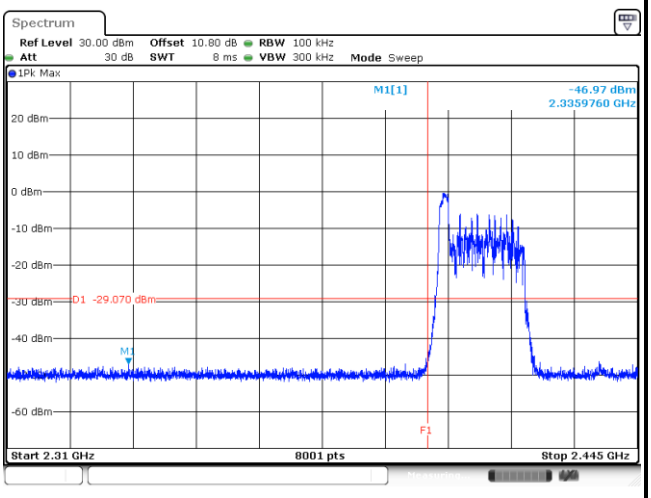
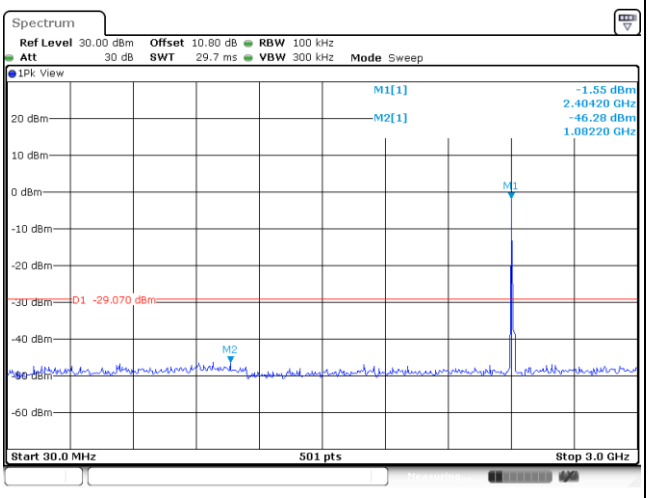
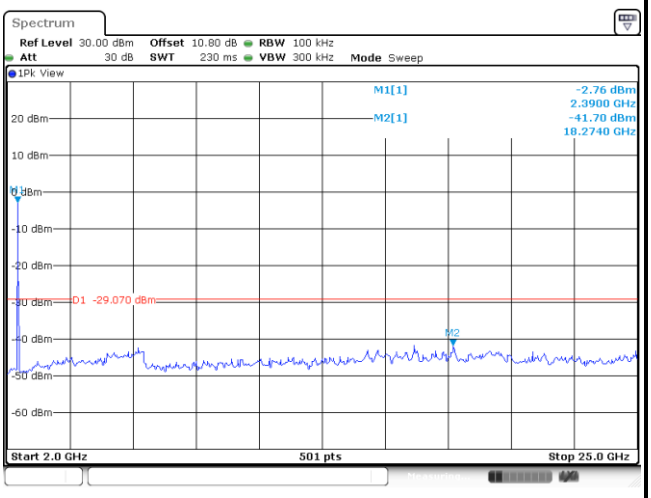
Test Mode :	802.11ax HE20	Test Channel :	10

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

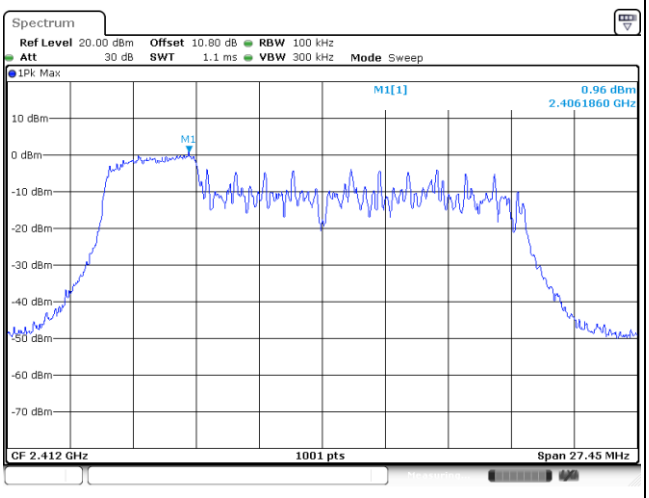
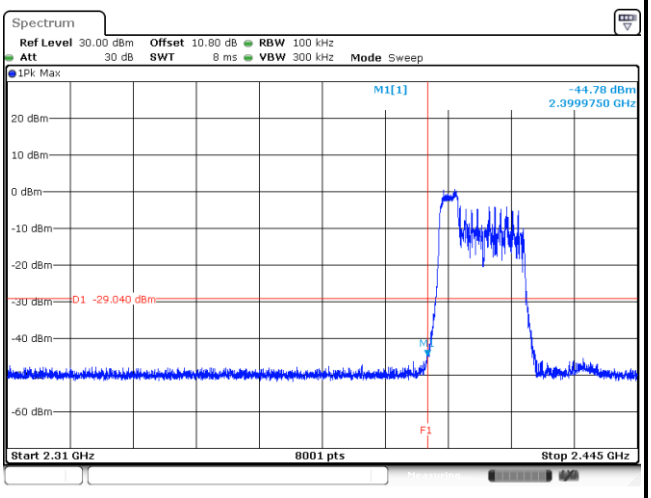
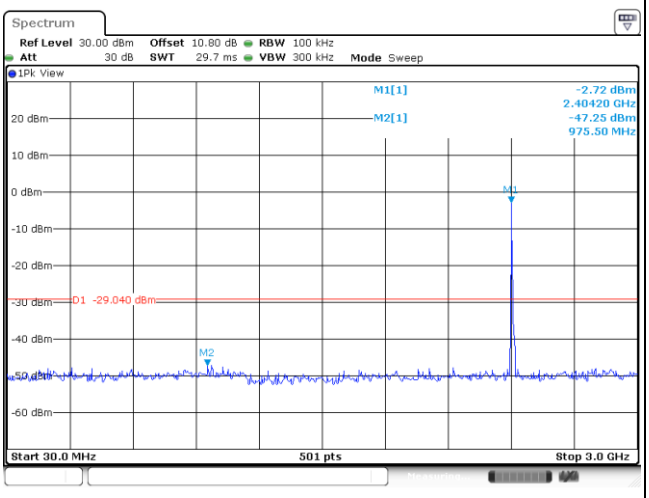
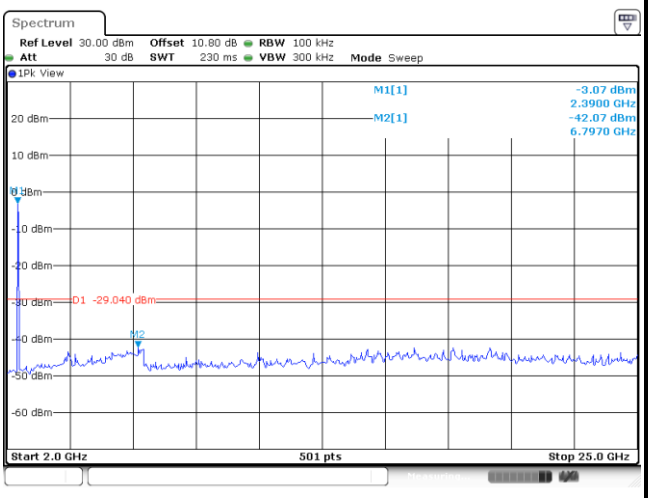
Test Mode :	802.11ax HE20	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

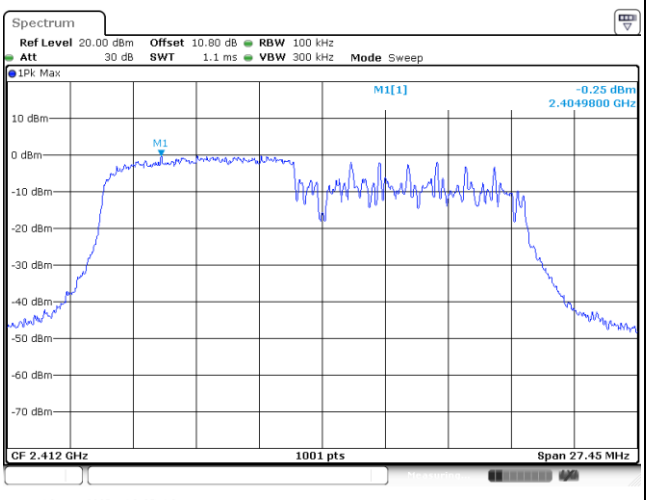
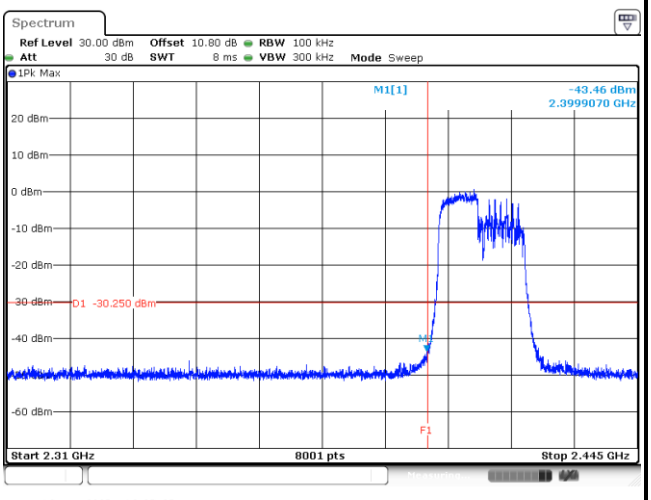
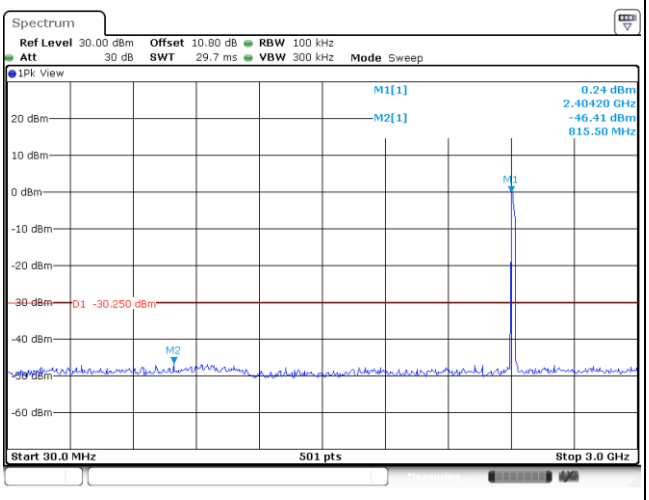
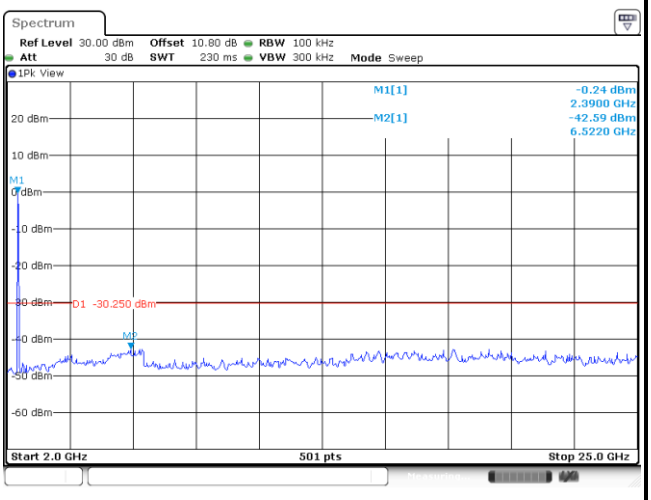
Test Mode :	802.11ax HE20 26RU0	Test Channel :	01

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

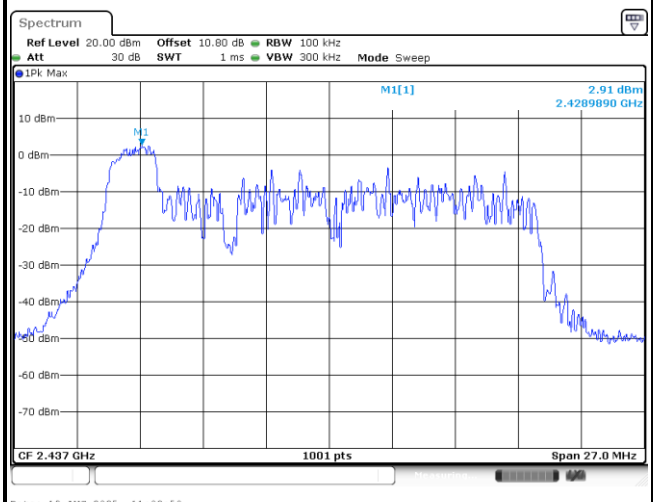
Test Mode :	802.11ax HE20 52RU37	Test Channel :	01

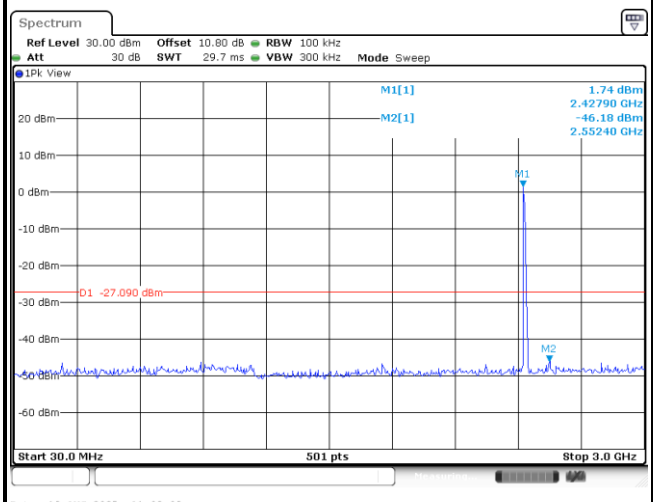
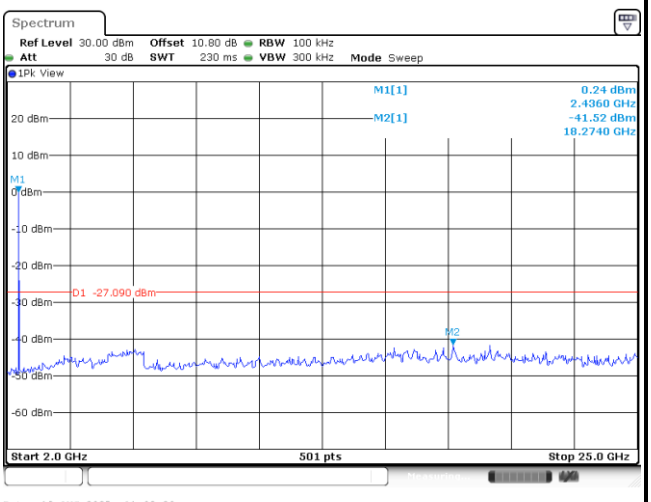
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11ax HE20 106RU53	Test Channel :	01

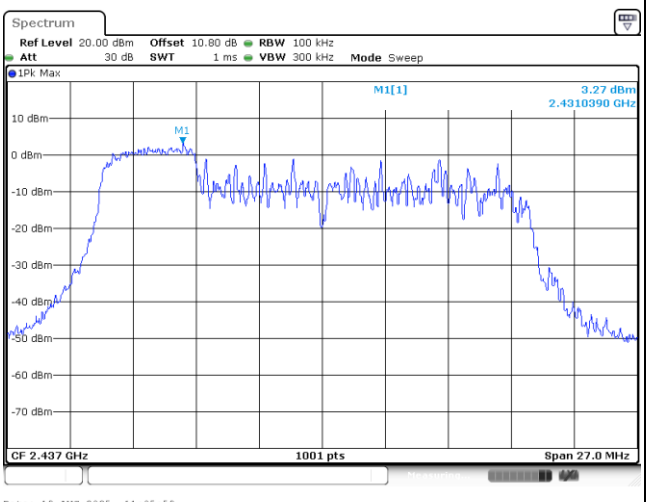
100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

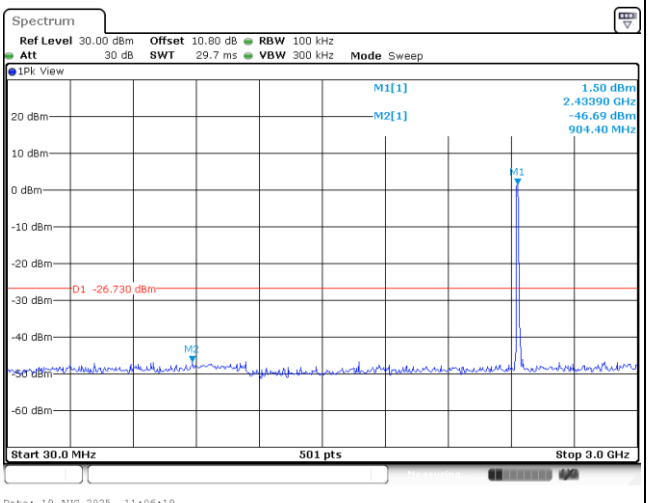
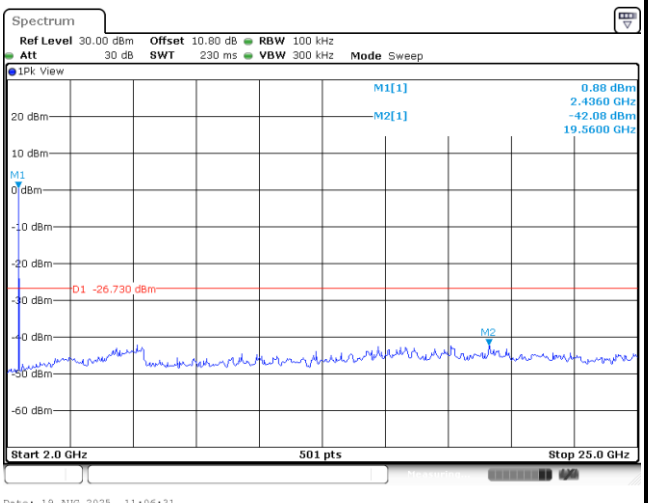
Test Mode :	802.11ax HE20 26RU0	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

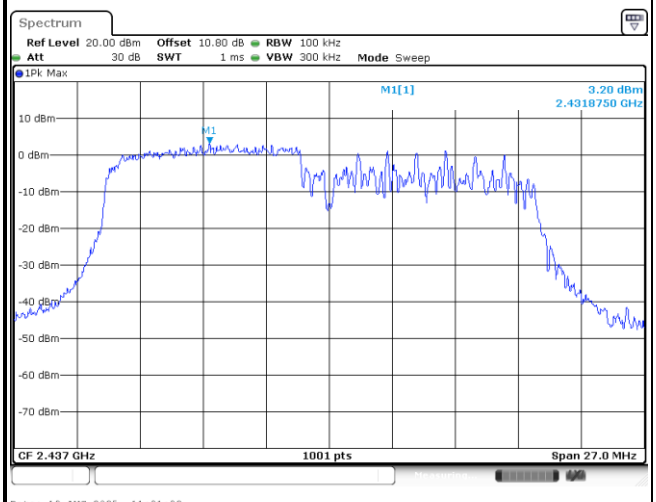
Spurious Emission Plot-1	Spurious Emission Plot-2
	

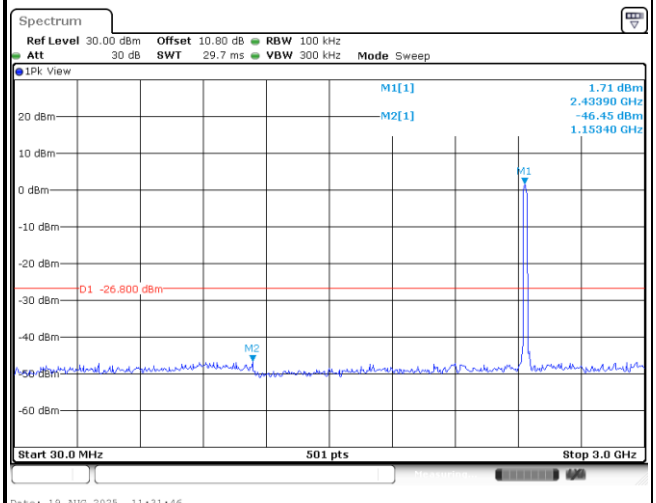
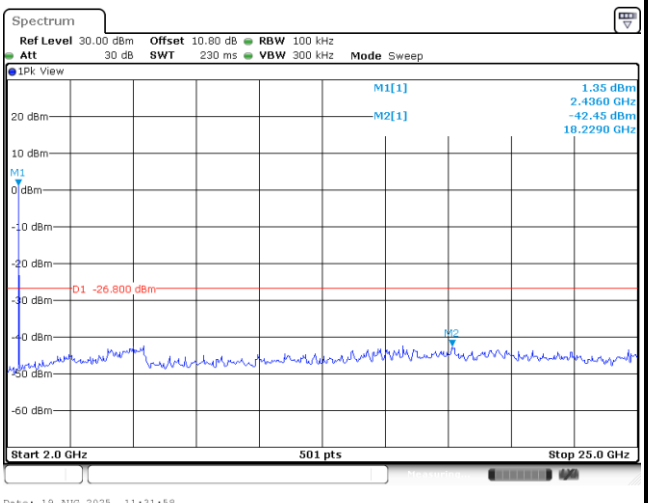
Test Mode :	802.11ax HE20 52RU37	Test Channel :	06

100kHz PSD reference Level	Channel Plot
	

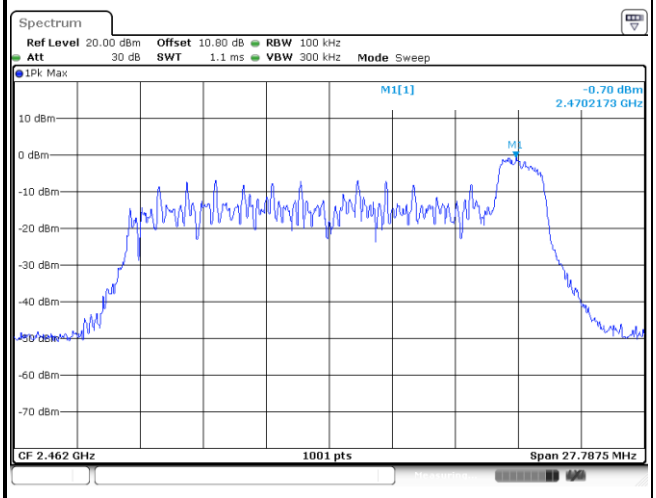
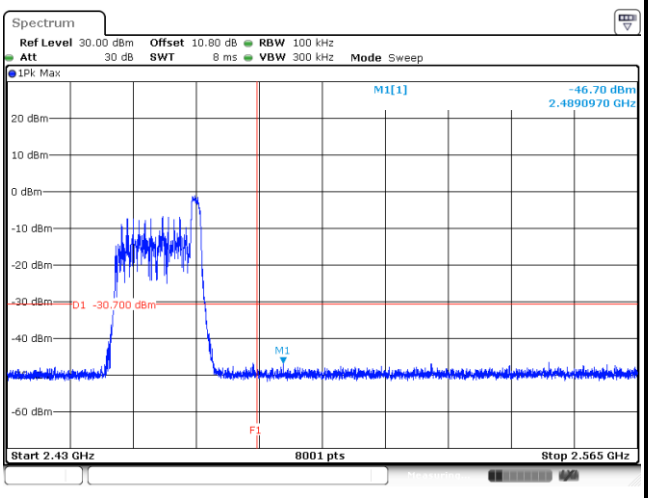
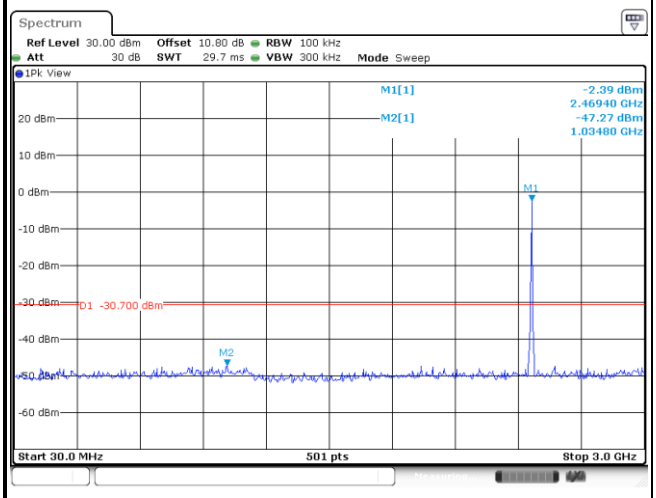
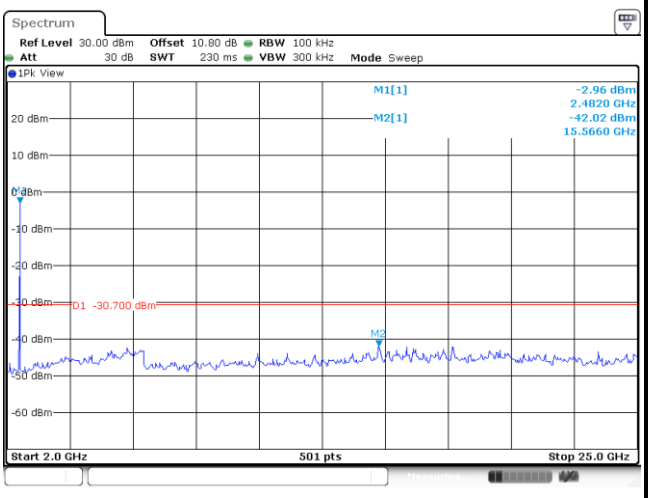
Spurious Emission Plot-1	Spurious Emission Plot-2
	

Test Mode :	802.11ax HE20 106RU53	Test Channel :	06

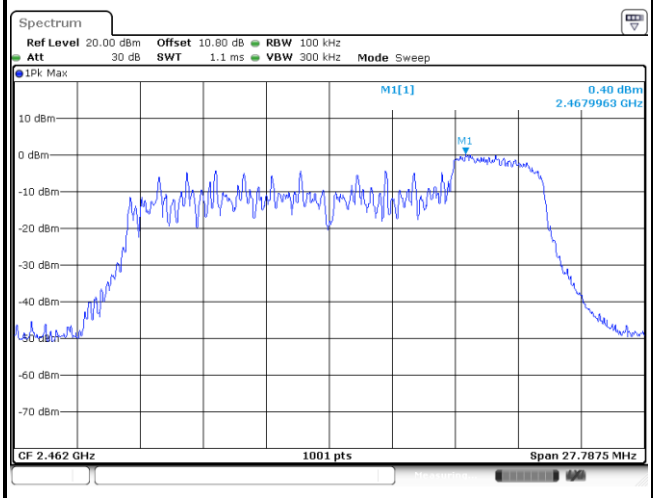
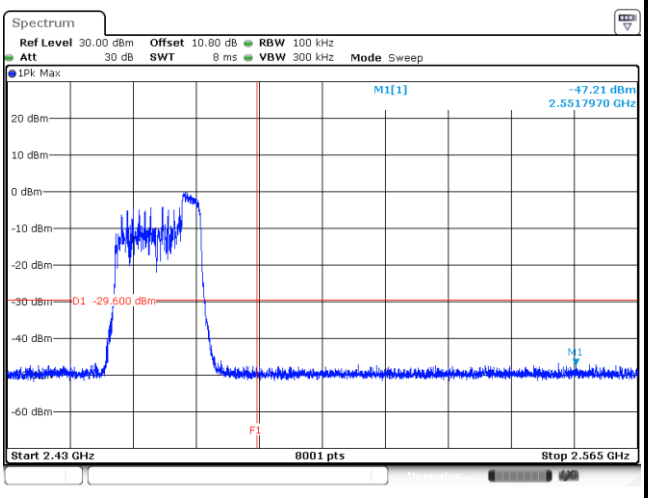
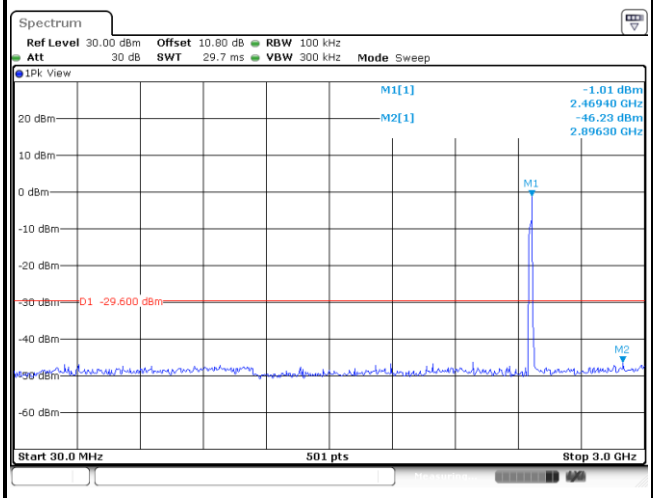
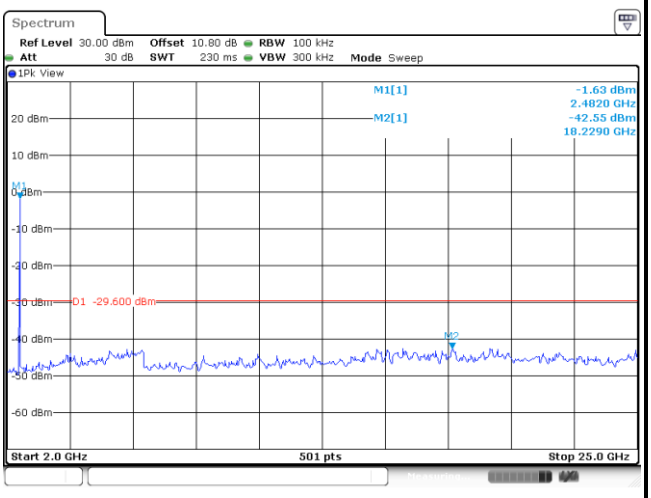
100kHz PSD reference Level	Channel Plot
	

Spurious Emission Plot-1	Spurious Emission Plot-2
	

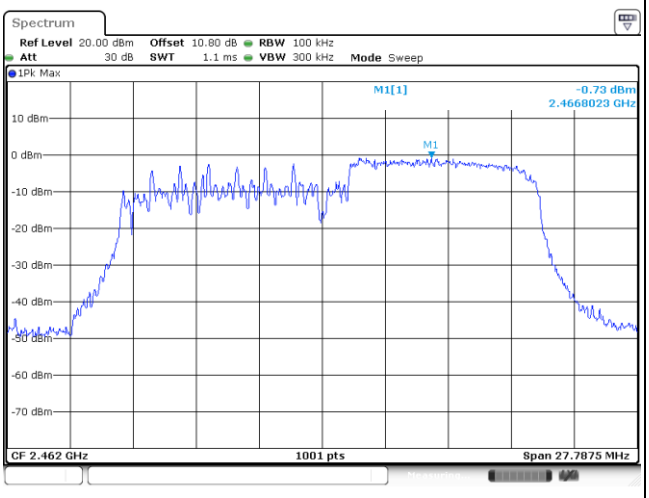
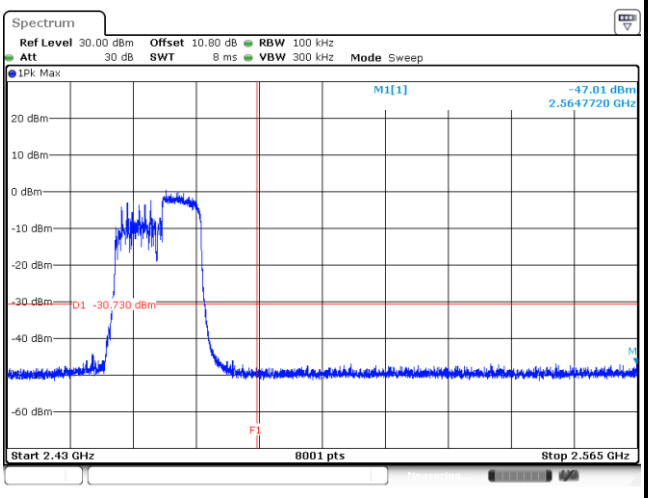
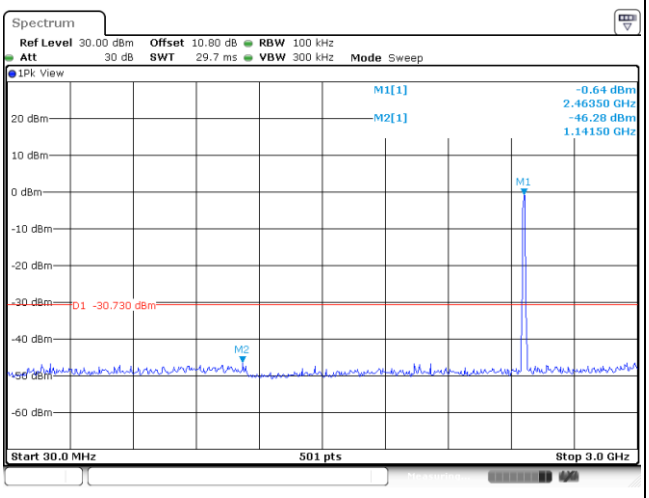
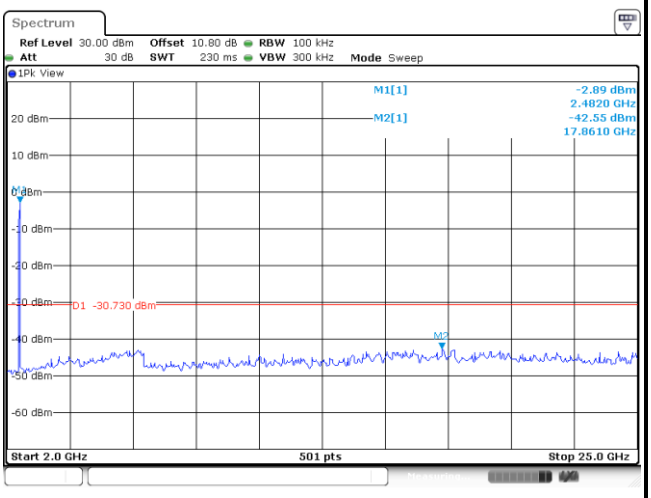
Test Mode :	802.11ax HE20 26RU8	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11ax HE20 52RU40	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

Test Mode :	802.11ax HE20 106RU54	Test Channel :	11

100kHz PSD reference Level	Channel Plot
	
Spurious Emission Plot-1	**Spurious Emission Plot-2**
	

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

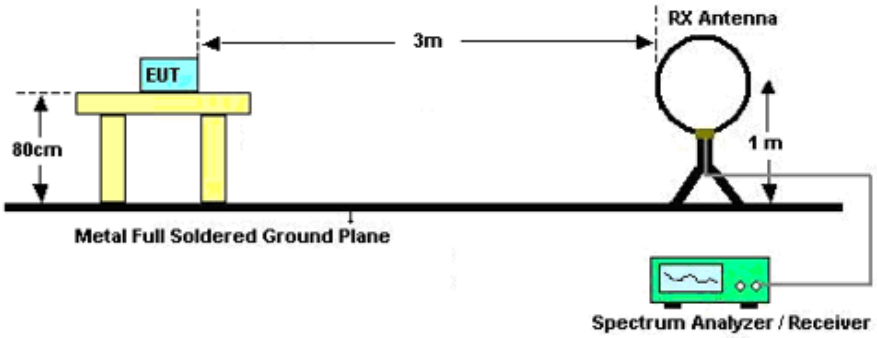
The measuring equipment is listed in the section 4 of this test report.

3.5.3 Test Procedures

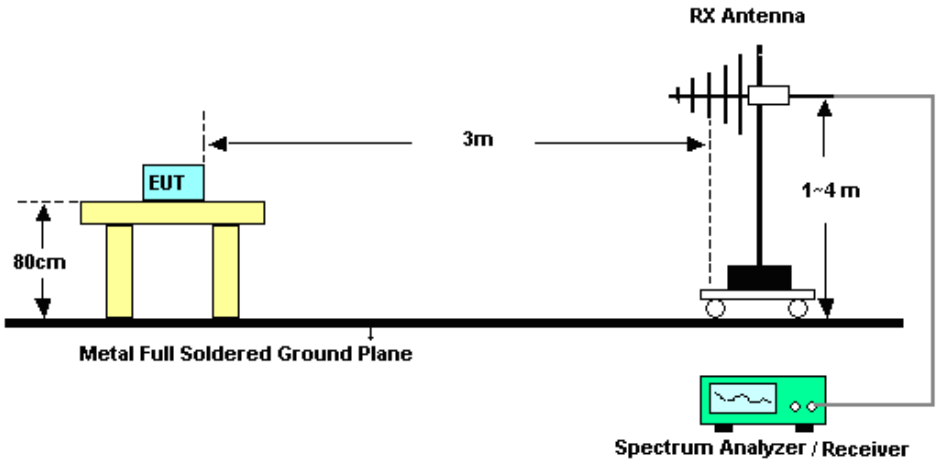
1. The testing follows ANSI C63.10-2020 clause 6.3, 6.5, 6.6, 11.11 and 11.12
2. The EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in 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

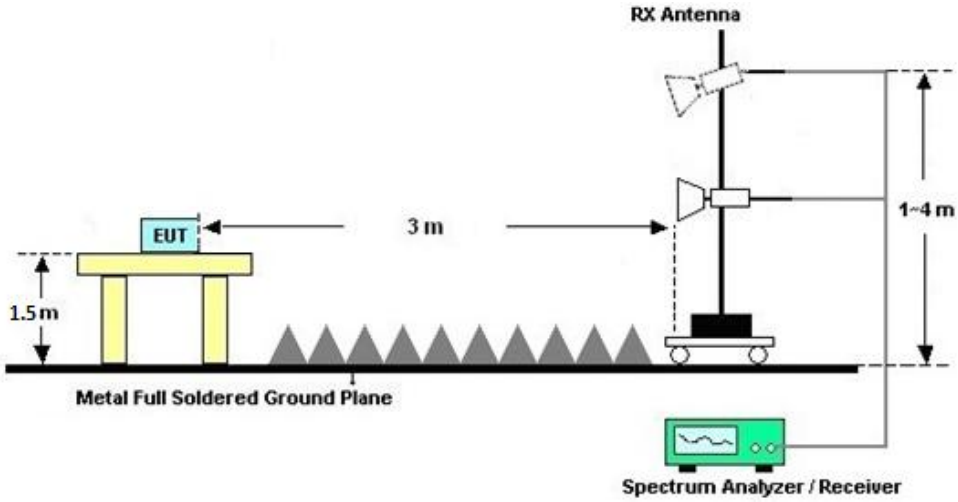
For radiated emissions below 30MHz



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.

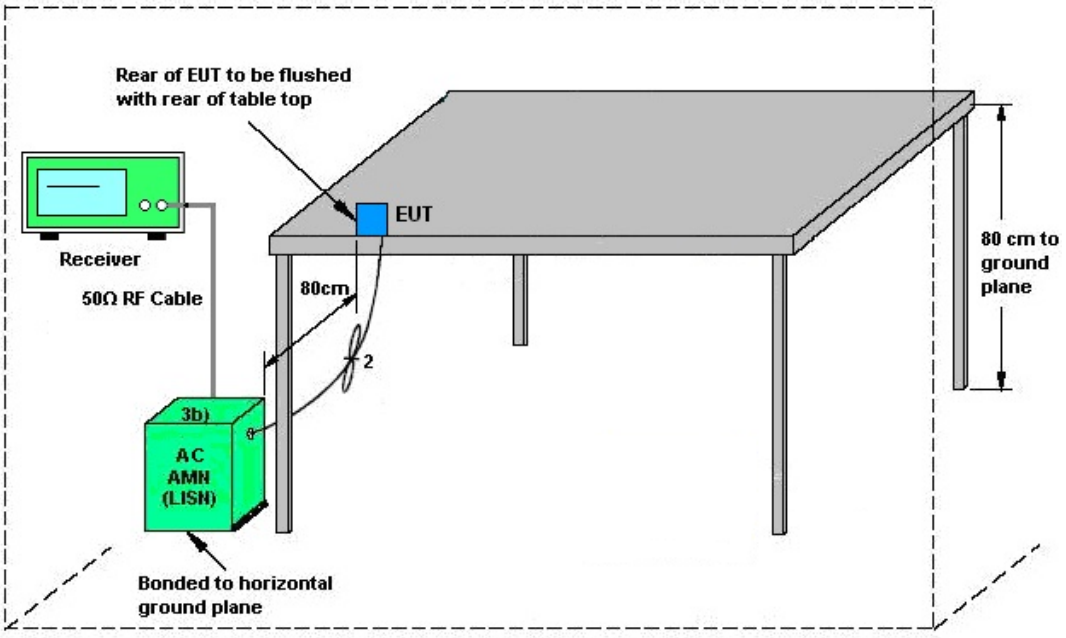
3.6.2 Measuring Instruments

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



AMN = Artificial mains network (LISN)
AE = Associated equipment
EUT = Equipment under test
ISN = Impedance stabilization network

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	FSV40	101040	10Hz~40GHz	Oct. 10, 2024	Aug. 16, 2025~ Aug. 22, 2025	Oct. 09, 2025	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GHz	Jan. 02, 2025	Aug. 16, 2025~ Aug. 22, 2025	Jan. 01, 2026	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Jan. 02, 2025	Aug. 16, 2025~ Aug. 22, 2025	Jan. 01, 2026	Conducted (TH01-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2024	Jun. 21, 2025~ Jul. 31, 2025	Jul. 03, 2025	Radiation (03CH05-KS)
EMI Test Receiver	Keysight	N9038A	MY57290151	3Hz~8.5GHz;Max 30dBm	Jul. 04, 2025		Jul. 03, 2026	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010B	MY60242126	10Hz-44G,MAX 30dB	Oct. 10, 2024	Jun. 21, 2025~ Jul. 31, 2025	Oct. 09, 2025	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2E	101125	9kHz~30MHz	Sep. 08, 2024	Jun. 21, 2025~ Jul. 31, 2025	Sep. 07, 2025	Radiation (03CH05-KS)
Bilog Antenna	TeseQ	CBL6111D	49921	30MHz-1GHz	Mar. 24, 2025	Jun. 21, 2025~ Jul. 31, 2025	Mar. 23, 2026	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	00251982	1GHz~18GHz	Aug. 16, 2024	Jun. 21, 2025~ Jul. 31, 2025	Aug. 15, 2025	Radiation (03CH05-KS)
SHF-EHF Horn	Com-power	AH-840	101116	18GHz~40GHz	Oct. 22, 2024	Jun. 21, 2025~ Jul. 31, 2025	Oct. 21, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2024	Jun. 21, 2025~ Jul. 31, 2025	Jul. 02, 2025	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 03, 2025		Jul. 02, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM18G40GA	060851	18~40GHz	Jan. 02, 2025	Jun. 21, 2025~ Jul. 31, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
high gain Amplifier	EM	EM01G18GA	060843	1Ghz-18Ghz	Jan. 02, 2025	Jun. 21, 2025~ Jul. 31, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
Amplifier	EM	EM01G18GA	060833	1Ghz-18Ghz	Jan. 02, 2025	Jun. 21, 2025~ Jul. 31, 2025	Jan. 01, 2026	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F104090004	N/A	NCR	Jun. 21, 2025~ Jul. 31, 2025	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jun. 21, 2025~ Jul. 31, 2025	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jun. 21, 2025~ Jul. 31, 2025	NCR	Radiation (03CH05-KS)
EMI Receiver	R&S	ESCI7	100768	9kHz~7GHz;	Apr 16, 2025	Aug. 05, 2025	Apr 15, 2026	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Aug. 20, 2024	Aug. 05, 2025	Aug. 19, 2025	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	Dec. 24, 2024	Aug. 05, 2025	Dec. 23, 2025	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP000000811	AC 0V~300V, 45Hz~1000Hz	Oct. 09, 2024	Aug. 05, 2025	Oct. 08, 2025	Conduction (CO01-KS)

NCR: No Calibration Required

5 Measurement Uncertainty

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10. 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 Measurement

Conducted Spurious Emission & Bandedge	**±2.00 dB**
Occupied Channel Bandwidth	**±0.384%**
Conducted Power	**±0.90 dB**
Conducted Power Spectral Density	**±0.90 dB**
Frequency	**±0.38 Hz**

Uncertainty of AC Conducted Emission Measurement (0.15 MHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.84 dB**

Uncertainty of Radiated Emission Measurement (9 KHz ~ 30 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**3.30 dB**

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**6.18 dB**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.88 dB**

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**5.36 dB**

---------- THE END ----------

Appendix A. Conducted Test Results

A1. Conducted Test Results

Test Engineer:	Jacob Zhang	Temperature:	21~25	°C
Test Date:	2025/8/16~2025/8/22	Relative Humidity:	51~54	%

Report Number : FR560332-01B

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band MIMO								
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
					Ant1	Ant1		
11b	1Mbps	1	1	2412	12.84	8.98	0.50	Pass
11b	1Mbps	1	6	2437	12.84	8.96	0.50	Pass
11b	1Mbps	1	11	2462	12.84	9.00	0.50	Pass
11g	6Mbps	1	1	2412	16.98	16.40	0.50	Pass
11g	6Mbps	1	2	2417	17.03	16.42	0.50	Pass
11g	6Mbps	1	6	2437	17.13	16.42	0.50	Pass
11g	6Mbps	1	10	2457	17.03	16.26	0.50	Pass
11g	6Mbps	1	11	2462	16.98	16.42	0.50	Pass
HT20	MCS0	1	1	2412	17.83	17.36	0.50	Pass
HT20	MCS0	1	2	2417	17.83	17.54	0.50	Pass
HT20	MCS0	1	6	2437	17.88	17.40	0.50	Pass
HT20	MCS0	1	10	2457	17.83	17.42	0.50	Pass
HT20	MCS0	1	11	2462	17.73	17.58	0.50	Pass

TEST RESULTS DATA
6dB and 99% Occupied Bandwidth

2.4GHz Band Single Antenna									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	99% Occupied BW (MHz)	6dB BW (MHz)	6dB BW Limit (MHz)	Pass/Fail
						Ant1	Ant1		
HE20	MCS0	1	1	2412	Full	18.63	18.30	0.50	Pass
HE20	MCS0	1	1	2412	26/0	18.08	18.30	0.50	Pass
HE20	MCS0	1	1	2412	52/37	17.98	18.30	0.50	Pass
HE20	MCS0	1	1	2412	106/53	17.98	18.30	0.50	Pass
HE20	MCS0	1	2	2417	Full	18.63	18.25	0.50	Pass
HE20	MCS0	1	6	2437	Full	18.63	18.00	0.50	Pass
HE20	MCS0	1	6	2437	26/0	18.28	18.00	0.50	Pass
HE20	MCS0	1	6	2437	52/37	18.08	18.00	0.50	Pass
HE20	MCS0	1	6	2437	106/53	17.88	18.00	0.50	Pass
HE20	MCS0	1	10	2457	Full	18.63	18.33	0.50	Pass
HE20	MCS0	1	11	2462	Full	18.58	18.53	0.50	Pass
HE20	MCS0	1	11	2462	26/8	18.13	18.53	0.50	Pass
HE20	MCS0	1	11	2462	52/40	17.98	18.53	0.50	Pass
HE20	MCS0	1	11	2462	106/54	17.88	18.53	0.50	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna										
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
					Ant1	Ant1	Ant1	Ant1	Ant1	
11b	1Mbps	1	1	2412	21.35	30.00	3.00	24.35	36.00	Pass
11b	1Mbps	1	6	2437	21.77	30.00	3.00	24.77	36.00	Pass
11b	1Mbps	1	11	2462	21.39	30.00	3.00	24.39	36.00	Pass
11g	6Mbps	1	1	2412	23.48	30.00	3.00	26.48	36.00	Pass
11g	6Mbps	1	2	2417	25.04	30.00	3.00	28.04	36.00	Pass
11g	6Mbps	1	6	2437	25.77	30.00	3.00	28.77	36.00	Pass
11g	6Mbps	1	10	2457	24.91	30.00	3.00	27.91	36.00	Pass
11g	6Mbps	1	11	2462	23.04	30.00	3.00	26.04	36.00	Pass
HT20	MCS0	1	1	2412	23.25	30.00	3.00	26.25	36.00	Pass
HT20	MCS0	1	2	2417	24.93	30.00	3.00	27.93	36.00	Pass
HT20	MCS0	1	6	2437	25.42	30.00	3.00	28.42	36.00	Pass
HT20	MCS0	1	10	2457	24.24	30.00	3.00	27.24	36.00	Pass
HT20	MCS0	1	11	2462	22.58	30.00	3.00	25.58	36.00	Pass

TEST RESULTS DATA
Peak Output Power

2.4GHz Band Single Antenna											
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Peak Conducted Power (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail
						Ant1	Ant1	Ant1	Ant1	Ant1	
HE20	MCS0	1	1	2412	Full	23.52	30.00	3.00	26.52	36.00	Pass
HE20	MCS0	1	1	2412	26/0	13.33	30.00	3.00	16.33	36.00	Pass
HE20	MCS0	1	1	2412	52/37	16.27	30.00	3.00	19.27	36.00	Pass
HE20	MCS0	1	1	2412	106/53	19.03	30.00	3.00	22.03	36.00	Pass
HE20	MCS0	1	6	2437	Full	25.51	30.00	3.00	28.51	36.00	Pass
HE20	MCS0	1	6	2437	26/0	16.58	30.00	3.00	19.58	36.00	Pass
HE20	MCS0	1	6	2437	52/37	18.84	30.00	3.00	21.84	36.00	Pass
HE20	MCS0	1	6	2437	106/53	22.07	30.00	3.00	25.07	36.00	Pass
HE20	MCS0	1	11	2462	Full	22.65	30.00	3.00	25.65	36.00	Pass
HE20	MCS0	1	11	2462	26/8	12.37	30.00	3.00	15.37	36.00	Pass
HE20	MCS0	1	11	2462	52/40	15.34	30.00	3.00	18.34	36.00	Pass
HE20	MCS0	1	11	2462	106/54	18.09	30.00	3.00	21.09	36.00	Pass

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna												
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
					Ant 1	Ant1	Ant1	Ant1	Ant1	Ant1		Ant 1
11b	1Mbps	1	1	2412	0.00	18.45	30.00	3.00	21.45	36.00	Pass	1.00
11b	1Mbps	1	6	2437	0.00	18.93	30.00	3.00	21.93	36.00	Pass	0.00
11b	1Mbps	1	11	2462	0.00	18.55	30.00	3.00	21.55	36.00	Pass	0.00
11g	6Mbps	1	1	2412	0.00	14.28	30.00	3.00	17.28	36.00	Pass	16.00
11g	6Mbps	1	2	2417	0.00	16.72	30.00	3.00	19.72	36.00	Pass	5.00
11g	6Mbps	1	6	2437	0.00	17.97	30.00	3.00	20.97	36.00	Pass	0.00
11g	6Mbps	1	10	2457	0.00	15.93	30.00	3.00	18.93	36.00	Pass	7.00
11g	6Mbps	1	11	2462	0.00	13.44	30.00	3.00	16.44	36.00	Pass	18.00
HT20	MCS0	1	1	2412	0.00	13.83	30.00	3.00	16.83	36.00	Pass	13.00
HT20	MCS0	1	2	2417	0.00	16.13	30.00	3.00	19.13	36.00	Pass	3.00
HT20	MCS0	1	6	2437	0.00	16.73	30.00	3.00	19.73	36.00	Pass	0.00
HT20	MCS0	1	10	2457	0.00	15.18	30.00	3.00	18.18	36.00	Pass	6.00
HT20	MCS0	1	11	2462	0.00	12.67	30.00	3.00	15.67	36.00	Pass	17.00

TEST RESULTS DATA
Average Output Power

2.4GHz Band Single Antenna													
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config.	Duty Factor (dB)	Average Conducted Power with duty factor (dBm)	Conducted Power Limit (dBm)	DG (dBi)	EIRP Power (dBm)	EIRP Power Limit (dBm)	Pass /Fail	Setting
						Ant1	Ant1	Ant1	Ant1	Ant1	Ant1		Ant 1
HE20	MCS0	1	1	2412	Full	0.00	13.88	30.00	3.00	16.88	36.00	Pass	13.00
HE20	MCS0	1	1	2412	26/0	0.04	4.09	30.00	3.00	7.09	36.00	Pass	47.00
HE20	MCS0	1	1	2412	52/37	0.04	6.87	30.00	3.00	9.87	36.00	Pass	38.00
HE20	MCS0	1	1	2412	106/53	0.10	9.49	30.00	3.00	12.49	36.00	Pass	30.00
HE20	MCS0	1	6	2437	Full	0.00	16.77	30.00	3.00	19.77	36.00	Pass	0.00
HE20	MCS0	1	6	2437	26/0	0.04	6.82	30.00	3.00	9.82	36.00	Pass	34.00
HE20	MCS0	1	6	2437	52/37	0.04	9.55	30.00	3.00	12.55	36.00	Pass	26.00
HE20	MCS0	1	6	2437	106/53	0.10	12.75	30.00	3.00	15.75	36.00	Pass	16.00
HE20	MCS0	1	11	2462	Full	0.00	12.70	30.00	3.00	15.70	36.00	Pass	17.00
HE20	MCS0	1	11	2462	26/8	0.04	3.16	30.00	3.00	6.16	36.00	Pass	50.00
HE20	MCS0	1	11	2462	52/40	0.04	6.30	30.00	3.00	9.30	36.00	Pass	40.00
HE20	MCS0	1	11	2462	106/54	0.10	8.95	30.00	3.00	11.95	36.00	Pass	32.00

TEST RESULTS DATA
Average Power Spectral Density

2.4GHz Band									
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	Duty Factor (dB)	Average PSD (dBm/3kHz)	DG (dBi)	Average PSD Limit (dBm/3kHz)	Pass/Fail
					Ant 1	Ant 1	Ant 1	Ant 1	
11b	1Mbps	1	1	2412	0.00	-12.06	3.00	8.00	Pass
11b	1Mbps	1	6	2437	0.00	-11.53	3.00	8.00	Pass
11b	1Mbps	1	11	2462	0.00	-12.68	3.00	8.00	Pass
11g	6Mbps	1	1	2412	0.00	-17.99	3.00	8.00	Pass
11g	6Mbps	1	2	2417	0.00	-13.97	3.00	8.00	Pass
11g	6Mbps	1	6	2437	0.00	-14.21	3.00	8.00	Pass
11g	6Mbps	1	10	2457	0.00	-16.44	3.00	8.00	Pass
11g	6Mbps	1	11	2462	0.00	-17.95	3.00	8.00	Pass
HT20	MCS0	1	1	2412	0.00	-18.68	3.00	8.00	Pass
HT20	MCS0	1	2	2417	0.00	-14.31	3.00	8.00	Pass
HT20	MCS0	1	6	2437	0.00	-14.44	3.00	8.00	Pass
HT20	MCS0	1	10	2457	0.00	-17.32	3.00	8.00	Pass
HT20	MCS0	1	11	2462	0.00	-20.23	3.00	8.00	Pass

TEST RESULTS DATA
Average Power Spectral Density

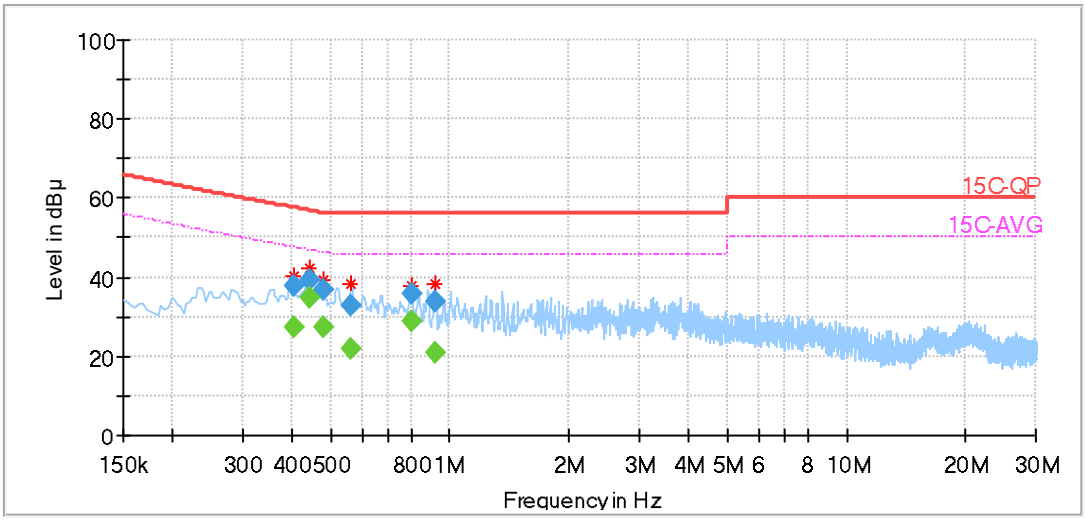
2.4GHz Band										
Mod.	Data Rate	NTX	CH.	Freq. (MHz)	RU Config	Duty Factor (dB)	Average PSD (dBm/3kHz)	DG (dBi)	Average PSD Limit (dBm/3kHz)	Pass/Fail
						Ant 1	Ant 1	Ant 1	Ant 1	
HE20	MCS0	1	1	2412	Full	0.00	-18.68	3.00	8.00	Pass
HE20	MCS0	1	1	2412	26/0	0.04	-19.24	3.00	8.00	Pass
HE20	MCS0	1	1	2412	52/37	0.04	-19.38	3.00	8.00	Pass
HE20	MCS0	1	1	2412	106/53	0.10	-18.71	3.00	8.00	Pass
HE20	MCS0	1	2	2417	Full	0.00	-16.87	3.00	8.00	Pass
HE20	MCS0	1	6	2437	Full	0.00	-15.13	3.00	8.00	Pass
HE20	MCS0	1	6	2437	26/0	0.04	-15.82	3.00	8.00	Pass
HE20	MCS0	1	6	2437	52/37	0.04	-15.92	3.00	8.00	Pass
HE20	MCS0	1	6	2437	106/53	0.10	-15.83	3.00	8.00	Pass
HE20	MCS0	1	10	2457	Full	0.00	-18.12	3.00	8.00	Pass
HE20	MCS0	1	11	2462	Full	0.00	-20.08	3.00	8.00	Pass
HE20	MCS0	1	11	2462	26/8	0.04	-20.24	3.00	8.00	Pass
HE20	MCS0	1	11	2462	52/40	0.04	-20.74	3.00	8.00	Pass
HE20	MCS0	1	11	2462	106/54	0.10	-20.38	3.00	8.00	Pass

Measured power density (dBm) has offset with cable loss.

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.		

Full Spectrum

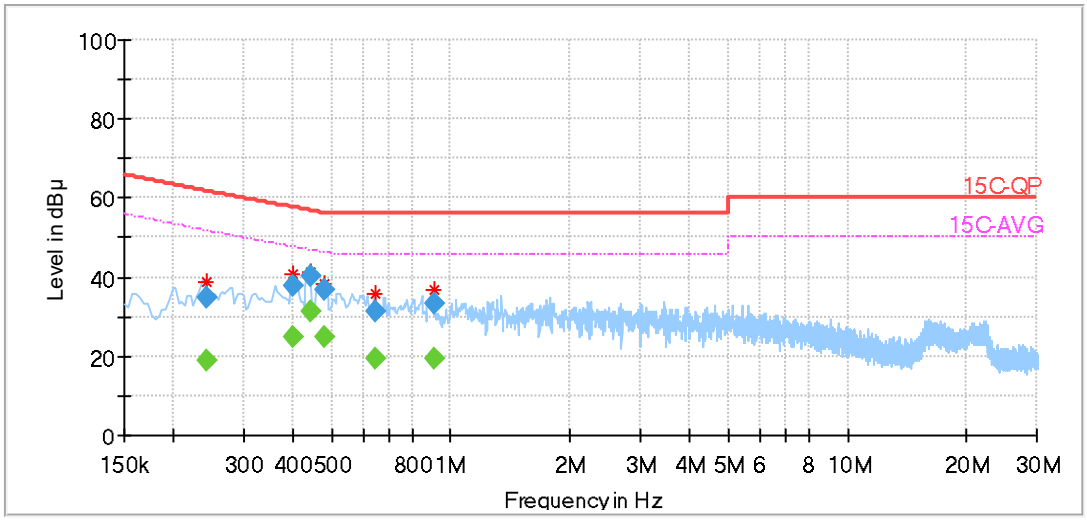


Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.402244	---	27.60	47.66	20.07	L1	OFF	10.3
0.402244	37.81	---	57.69	19.88	L1	OFF	10.3
0.442519	---	34.77	46.93	12.16	L1	OFF	10.3
0.442519	39.51	---	56.94	17.43	L1	OFF	10.3
0.478350	---	27.27	46.33	19.07	L1	OFF	10.3
0.478350	36.92	---	56.34	19.42	L1	OFF	10.3
0.564169	---	21.75	46.00	24.25	L1	OFF	10.3
0.564169	33.07	---	56.00	22.93	L1	OFF	10.3
0.800006	---	28.76	46.00	17.24	L1	OFF	10.3
0.800006	35.98	---	56.00	20.02	L1	OFF	10.3
0.917156	---	20.70	46.00	25.30	L1	OFF	10.3
0.917156	33.62	---	56.00	22.38	L1	OFF	10.3

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.		

Full Spectrum



Final Result

Frequency (MHz)	QuasiPeak (dBuV)	CAverage (dBuV)	Limit (dBuV)	Margin (dB)	Line	Filter	Corr. (dB)
0.241800	---	19.15	51.80	32.65	N	OFF	10.4
0.241800	35.06	---	61.84	26.78	N	OFF	10.4
0.401475	---	24.93	47.68	22.75	N	OFF	10.3
0.401475	37.67	---	57.70	20.04	N	OFF	10.3
0.441037	---	31.11	46.95	15.85	N	OFF	10.3
0.441037	40.54	---	56.97	16.43	N	OFF	10.3
0.479831	---	24.90	46.31	21.42	N	OFF	10.3
0.479831	36.85	---	56.32	19.46	N	OFF	10.3
0.642524	---	19.24	46.00	26.76	N	OFF	10.3
0.642524	31.30	---	56.00	24.70	N	OFF	10.3
0.903694	---	19.59	46.00	26.41	N	OFF	10.3
0.903694	33.23	---	56.00	22.77	N	OFF	10.3

Appendix C Radiated Spurious Emission Test Data

Test Engineer :	Jerry Xu	Relative Humidity :	41~42%
		Temperature :	22~23℃

Radiated Spurious Emission Test Modes

Mode	Band (MHz)	Antenna	Modulation	Channel	Frequency	Data Rate	RU	Remark
Mode 1	2400-2483.5	1	802.11b	01	2412	1Mbps	-	-
Mode 2	2400-2483.5	1	802.11b	06	2437	1Mbps	-	-
Mode 3	2400-2483.5	1	802.11b	11	2462	1Mbps	-	-
Mode 4	2400-2483.5	1	802.11g	01	2412	6Mbps	-	-
Mode 5	2400-2483.5	1	802.11g	06	2437	6Mbps	-	-
Mode 6	2400-2483.5	1	802.11g	11	2462	6Mbps	-	-
Mode 7	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	Full RU	-
Mode 8	2400-2483.5	1	802.11ax HE20	06	2437	MCS0	Full RU	-
Mode 9	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	Full RU	-
Mode 10	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	RU26/0	-
Mode 11	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	RU52/37	-
Mode 12	2400-2483.5	1	802.11ax HE20	01	2412	MCS0	RU106/53	-
Mode 13	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	RU26/8	-
Mode 14	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	RU52/40	-
Mode 15	2400-2483.5	1	802.11ax HE20	11	2462	MCS0	RU106/54	-
Mode 16	2400-2483.5	1	802.11g	2	2417	6Mbps	-	-
Mode 17	2400-2483.5	1	802.11g	10	2457	6Mbps	-	-
Mode 18	2400-2483.5	1	802.11ax HE20	2	2417	MCS0	Full RU	-
Mode 19	2400-2483.5	1	802.11ax HE20	10	2457	MCS0	Full RU	-

Summary of each worse mode

Mode	Modulation	Ch.	Freq. (MHz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Pol.	Peak Avg.	Result	Remark
1	802.11b	01	2386.05	50.78	54.00	-3.22	H	AVERAGE	Pass	Band Edge
1	802.11b	01	4824.00	45.34	54.00	-8.66	H	AVERAGE	Pass	Harmonic
2	802.11b	06	-	-	-	-	-	-	-	Band Edge
2	802.11b	06	7311.00	47.66	54.00	-6.34	H	AVERAGE	Pass	Harmonic
3	802.11b	11	2487.76	48.92	54.00	-5.08	H	AVERAGE	Pass	Band Edge
3	802.11b	11	4924.00	49.06	54.00	-4.94	V	AVERAGE	Pass	Harmonic
4	802.11g	01	2389.95	50.47	54.00	-3.53	H	AVERAGE	Pass	Band Edge
4	802.11g	01	4824.00	41.18	74.00	-32.82	V	PEAK	Pass	Harmonic
5	802.11g	06	2483.62	48.26	54.00	-5.74	H	AVERAGE	Pass	Band Edge
5	802.11g	06	7311.00	43.95	54.00	-10.05	H	AVERAGE	Pass	Harmonic
6	802.11g	11	2483.50	50.45	54.00	-3.55	H	AVERAGE	Pass	Band Edge
6	802.11g	11	7386.00	42.70	74.00	-31.30	H	PEAK	Pass	Harmonic
7	802.11ax HE20	01	2389.95	50.93	54.00	-3.07	H	AVERAGE	Pass	Band Edge
7	802.11ax HE20	01	4824.00	40.42	74.00	-33.58	H	PEAK	Pass	Harmonic

8	802.11ax HE20	06	2483.50	46.89	54.00	-7.11	H	AVERAGE	Pass	Band Edge
8	802.11ax HE20	06	7311.00	40.15	54.00	-13.85	V	AVERAGE	Pass	Harmonic
9	802.11ax HE20	11	2483.50	50.95	54.00	-3.05	H	AVERAGE	Pass	Band Edge
9	802.11ax HE20	11	7386.00	42.36	74.00	-31.64	H	PEAK	Pass	Harmonic
10	802.11ax HE20	01	2370.19	48.26	54.00	-5.74	H	AVERAGE	Pass	Band Edge
10	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
11	802.11ax HE20	01	2375.78	48.05	54.00	-5.95	H	AVERAGE	Pass	Band Edge
11	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
12	802.11ax HE20	01	2389.95	49.52	54.00	-4.48	H	AVERAGE	Pass	Band Edge
12	802.11ax HE20	01	-	-	-	-	-	-	-	Harmonic
13	802.11ax HE20	11	2483.98	69.94	74.00	-4.06	H	PEAK	Pass	Band Edge
13	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
14	802.11ax HE20	11	2498.50	47.79	54.00	-6.21	H	AVERAGE	Pass	Band Edge
14	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
15	802.11ax HE20	11	2483.50	50.58	54.00	-3.42	H	AVERAGE	Pass	Band Edge
15	802.11ax HE20	11	-	-	-	-	-	-	-	Harmonic
16	802.11g	2	2389.95	50.23	54.00	-3.77	H	AVERAGE	Pass	Band Edge
16	802.11g	2	7251.00	39.79	54.00	-14.21	V	AVERAGE	Pass	Harmonic
17	802.11g	10	2483.50	50.83	54.00	-3.17	H	AVERAGE	Pass	Band Edge
17	802.11g	10	7371.00	39.96	54.00	-14.04	V	AVERAGE	Pass	Harmonic
18	802.11ax HE20	2	2389.95	50.65	54.00	-3.35	H	AVERAGE	Pass	Band Edge
18	802.11ax HE20	2	7245.00	47.22	74.00	-26.78	H	Peak	Pass	Harmonic
19	802.11ax HE20	10	2483.50	50.92	54.00	-3.08	H	AVERAGE	Pass	Band Edge
19	802.11ax HE20	10	7366.00	45.87	74.00	-28.13	V	Peak	Pass	Harmonic