FCC RF Test Report

APPLICANT : Motorola Mobility LLC EQUIPMENT : Mobile Cellular Phone

BRAND NAME : Motorola

MODEL NAME : XT2321-3, XT2321-5

FCC ID : IHDT56AJ3

STANDARD : FCC Part 15 Subpart C §15.247

CLASSIFICATION : (DTS) Digital Transmission System

TEST DATE(S) : Dec. 22, 2022 ~ Jan. 13, 2023

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.

This report contains data that were produced under subcontract by Sporton International Inc. (Shenzhen)

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.

JasonJia

Approved by: Jason Jia





Report No.: FR2D0913C

Sporton International Inc. (Kunshan)

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

Sporton International Inc. (Kunshan)

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR2D0913C	Rev. 01	Initial issue of report	Feb. 01, 2023

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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)	Power Output Measurement	≤ 30dBm	Pass	-
3.3	3 15.247(e) Power Spectra		≤ 8dBm/3kHz	Pass	-
2.4	45.047(4)	Conducted Band Edges	< 20dBc	Pass	-
3.4	15.247(d)	Conducted Spurious Emission	≥ 20060	Pass	-
3.5 15.247(d)		Radiated Band Edges and Radiated Spurious Emission	15.209(a) & 15.247(d)	Pass	Under limit 3.02 dB at 2484.08 MHz
3.6	15.207	07 AC Conducted Emission		Pass	Under limit 9.0 dB at 0.192 MHz
3.7	15.203 & 15.247(b)	Antenna Requirement	15.203 & 15.247(b)	Pass	-

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.

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1 General Description

1.1 Applicant

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.2 Manufacturer

Motorola Mobility LLC

222 W, Merchandise Mart Plaza, Chicago IL 60654 USA

1.3 Product Feature of Equipment Under Test

Product Feature			
Equipment	Mobile Cellular Phone		
Brand Name	Motorola		
Model Name	XT2321-3, XT2321-5		
FCC ID	IHDT56AJ3		
IMEI Code	Conducted: 358041760019911/358041760019929 Conduction: 358041760025975/358041760025983 Radiation: 358041760025512/358041760025520		
HW Version	DVT2		
SW Version	TTZ 33.50		
EUT Stage	Identical Prototype		

Remark:

- **1.** The EUT has two working states, flip open state and flip close state, by verifying these two states, we choose the worst flip open state for all tests.
- 2. The EUT supports MIMO mode only

1.4 Product Specification of Equipment Under Test

Standards-related Product Specification		
Tx/Rx Channel Frequency Range	2412 MHz ~ 2462 MHz	
	802.11b : 27.11 dBm (0.5140 W)	
	802.11g : 28.93 dBm (0.7816 W)	
Maximum (Peak) Output Power to	802.11n HT20 : 28.90 dBm (0.7762 W)	
antenna	802.11n HT40 : 28.69 dBm (0.7396 W)	
	802.11ax HE20 : 28.98 dBm (0.7907 W)	
	802.11ax HE40 : 28.78 dBm (0.7551 W)	
	802.11b : 13.067MHz	
00% Occupied Pandwidth	802.11g : 16.703MHz	
99% Occupied Bandwidth	802.11ax HE20 : 19.021MHz	
	802.11ax HE40 : 37.962MHz	
Antonna Type / Cain	<ant.4>IFA Antenna type with gain -6.8 dBi</ant.4>	
Antenna Type / Gain	<ant.5>IFA Antenna type with gain -2.5 dBi</ant.5>	
	802.11b: DSSS (DBPSK / DQPSK / CCK)	
Type of Modulation	802.11g/n/ax : OFDM (BPSK / QPSK / 16QAM /	
	64QAM/256QAM/1024QAM)	

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1.5 Modification of EUT

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

1.6 Testing Location

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

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

Sporton International Inc. (ShenZhen) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.01.

Test Firm	Sporton International Inc. (ShenZhen)		
Test Site Location	101, 1st Floor, Block B, Building 1, No. 2, Tengfeng 4th Road, Fenghual Community, Fuyong Street, Baoan District, Shenzhen City Guangdong Provinc China 518103 TEL: +86-755-33202398		
Test Site No.	Sporton Site No.	FCC Designation No.	FCC Test Firm Registration No.
	03CH04-SZ	CN1256	421272

Test data subcontracted: RSE test case in section 3.5 of this report,

1.7 Test Software

ltem	Site	Manufacturer	Name	Version
1.	CO01-KS	AUDIX	E3	6.2009-8-24
2.	03CH04-SZ	AUDIX	E3	6.2009-8-24

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1.8 Applicable Standards

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

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- 47 CFR Part 15 Subpart C §15.247
- FCC KDB 558074 D01 15.247 Meas Guidance v05r02
- FCC KDB 662911 D01 Multiple Transmitter Output v02r01.
- ANSI C63.10-2013

Remark:

- 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.

1.9 Specification of Accessory

		<u> </u>				
	Specification of Accessory					
AC Adapter	Brand Name	Motorola (Salom)	Model Name	MC-301		
Battery 1	Brand Name	Motorola(ATL)	Model Name	PM29		
Battery 2	Brand Name	Motorola(ATL)	Model Name	PM08		
USB Cable 1	Brand Name	Motorola (Cabletech)	Model Name	SC18D13216		
USB Cable 2	Brand Name	Motorola (Luxshare)	Model Name	SC18D13217		
USB Cable 3	Brand Name	Motorola (Saibao)	Model Name	SC18D86732		

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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.

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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)
	1	2412	7	2442
	2	2417	8	2447
2400 2492 E MU-	3	2422	9	2452
2400-2483.5 MHz	4	2427	10	2457
	5	2432	11	2462
	6	2437		

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2.2 Test Mode

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

MIMO Antenna

Modulation	Data Rate
802.11b	1 Mbps
802.11g	6 Mbps
802.11n HT20	MCS0
802.11n HT40	MCS0
802.11ax HE20	MCS0
802.11ax HE40	MCS0

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	Test Cases				
AC					
Conducted	Mode 1 :BT Link + WLAN Link(2.4G) + USB Cable (3)(Charging From Adaptor)				
Emission					
Remark: For Radiated Test Cases, The tests were performance with Adapter and USB Cable1					

CO-location
802.11g_TX_CH11

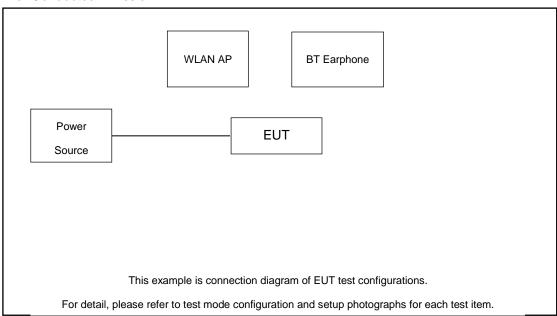
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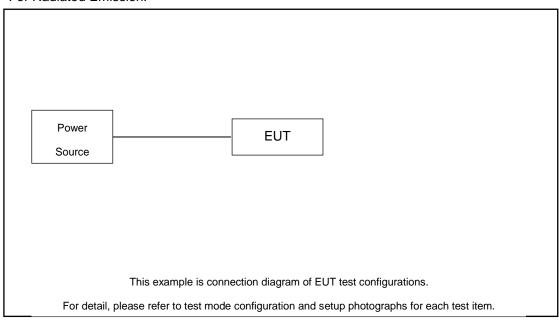
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2.3 Connection Diagram of Test System

For Conducted Emission:



For Radiated Emission:



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2.4 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model Name	FCC ID	Data Cable	Power Cord
1.	System Simulator	R&S	CMU 200	N/A	N/A	Unshielded, 1.8 m
2.	WLAN AP	D-link	DIR-655	KA21R655B1	N/A	Unshielded,1.8m
3.	Notebook	Lenovo	V130-15IKB005	N/A	N/A	shielded cable DC O/P 1.8m , Unshielded AC I/P cable 1.8m
4.	Bluetooth Earphone	Lenovo	LBH308	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.

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 2.95 dB and 10dB attenuator.

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

= 2.95 + 10 = 12.95 (dB)

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3 Test Result

3.1 6dB and 99% Bandwidth Measurement

3.1.1 Limit of 6dB and 99% Bandwidth

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

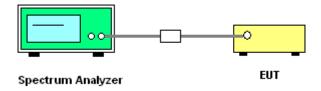
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

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

3.1.4 Test Setup



3.1.5 Test Result of 6dB and 99% Occupied Bandwidth

Please refer to Appendix A.

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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.

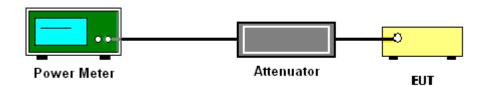
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

- 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 11.9.2.3.1 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.
- 5. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

3.2.4 Test Setup



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3.2.5 Test Result of Peak Output Power

							2.4	4GHz Ba	and				
Mod.	Ru Config	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	
						Ant 5	Ant 4	SUM	Ant 5 Ant 4	Ant 5 Ant 4	Ant 5 Ant 4	Ant 5 Ant 4	
11b		1Mbps	2	1	2412	23.78	24.16	26.98	30.00	-2.50	24.48	36.00	Pass
11b		1Mbps	2	6	2437	23.72	24.38	27.07	30.00	-2.50	24.57	36.00	Pass
11b		1Mbps	2	11	2462	23.96	24.23	27.11	30.00	-2.50	24.61	36.00	Pass
11g		6Mbps	2	1	2412	25.75	26.09	28.93	30.00	-2.50	26.43	36.00	Pass
11g		6Mbps	2	6	2437	25.75	25.84	28.81	30.00	-2.50	26.31	36.00	Pass
11g		6Mbps	2	11	2462	25.85	25.77	28.82	30.00	-2.50	26.32	36.00	Pass
HT20		MCS0	2	1	2412	25.61	26.16	28.90	30.00	-2.50	26.40	36.00	Pass
HT20		MCS0	2	6	2437	25.59	26.07	28.85	30.00	-2.50	26.35	36.00	Pass
HT20		MCS0	2	11	2462	25.25	25.16	28.22	30.00	-2.50	25.72	36.00	Pass
HT40		MCS0	2	3	2422	25.41	25.93	28.69	30.00	-2.50	26.19	36.00	Pass
HT40		MCS0	2	6	2437	25.43	25.81	28.63	30.00	-2.50	26.13	36.00	Pass
HT40		MCS0	2	9	2452	25.14	25.31	28.24	30.00	-2.50	25.74	36.00	Pass
HE20	FULL	MCS0	2	1	2412	25.69	26.23	28.98	30.00	-2.50	26.48	36.00	Pass
HE20	26RU	MCS0	2	1	2412	15.54	15.76	18.66	30.00	-2.50	16.16	36.00	Pass
HE20	52RU	MCS0	2	1	2412	17.93	18.05	21.00	30.00	-2.50	18.50	36.00	Pass
HE20	106RU	MCS0	2	1	2412	21.36	21.25	24.32	30.00	-2.50	21.82	36.00	Pass
HE20	FULL	MCS0	2	6	2437	25.67	26.15	28.93	30.00	-2.50	26.43	36.00	Pass
HE20	26RU	MCS0	2	6	2437	15.61	15.78	18.71	30.00	-2.50	16.21	36.00	Pass
HE20	52RU	MCS0	2	6	2437	18.02	18.26	21.15	30.00	-2.50	18.65	36.00	Pass
HE20	106RU	MCS0	2	6	2437	21.27	21.14	24.22	30.00	-2.50	21.72	36.00	Pass
HE20	FULL	MCS0	2	11	2462	25.48	25.21	28.36	30.00	-2.50	25.86	36.00	Pass
HE20	26RU	MCS0	2	11	2462	15.74	15.51	18.64	30.00	-2.50	16.14	36.00	Pass
HE20	52RU	MCS0	2	11	2462	18.14	18.01	21.09	30.00	-2.50	18.59	36.00	Pass
HE20	106RU	MCS0	2	11	2462	20.94	21.03	24.00	30.00	-2.50	21.50	36.00	Pass
HE40	MCS0	MCS0	2	3	2422	25.51	26.02	28.78	30.00	-2.50	26.28	36.00	Pass
HE40	MCS0	MCS0	2	6	2437	25.47	25.85	28.67	30.00	-2.50	26.17	36.00	Pass
HE40	MCS0	MCS0	2	9	2452	25.31	25.49	28.41	30.00	-2.50	25.91	36.00	Pass

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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.

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3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

- 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.
- 7. For MIMO mode, calculation method follows FCC KDB 662911 D01 Multiple Transmitter Output v02r01.

If measurements performed using method (2) plus 10 log (N) exceeds the emission limit, the test should choose method (1) before declaring that the device fails the emission limit.

Method (1): Measure and sum the spectra across the outputs.

The total final Power Spectral Density is from a device with 2 transmitter outputs. The spectrum measurements of the individual outputs are all performed with the same span and number of points, the spectrum value in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 to obtain the value for the first frequency bin of the summed spectrum.

Method (2): Measure and add 10 log (N) dB, where N is the number of outputs. (N=2)

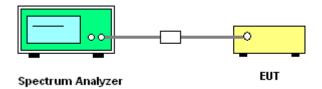
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3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Please refer to Appendix A.

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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.

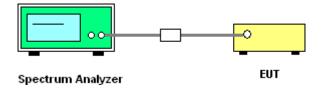
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

- 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.
- 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).
- Measure and record the results in the test report. 5.
- 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

Please refer to Appendix A.

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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	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(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.

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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.

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- 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
- 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 $f \ge 1$ 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.

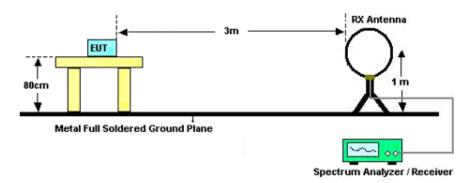
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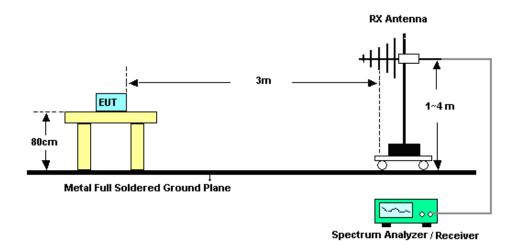
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3.5.4 Test Setup

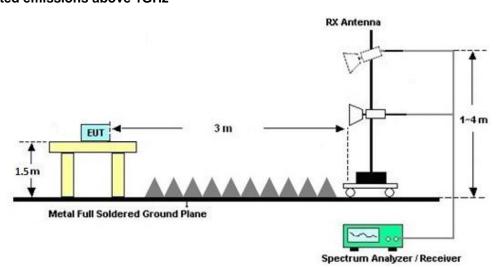
For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



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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.

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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&D.

3.5.7 Duty Cycle

Please refer to Appendix E.

3.5.8 Test Result of Radiated Spurious Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix C&D.

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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.

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Frequency of Emission	Conducted Limit (dBµV)			
(MHz)	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.

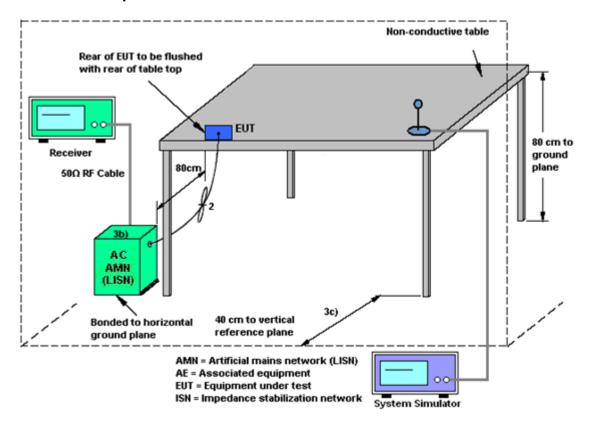
3.6.3 Test Procedures

- 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.

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3.6.4 Test Setup



3.6.5 Test Result of AC Conducted Emission

Please refer to Appendix B.

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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.

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3.7.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.7.3 Antenna Gain

<CDD Modes >

FCC KDB 662911 D01 Multiple Transmitter Output v02r01

For CDD transmissions, directional gain is calculated as

Directional gain = G_{ANT} + Array Gain, where Array Gain is as follows.

For power spectral density (PSD) measurements on all devices,

Array Gain = $10 \log(N_{ANT}/N_{SS}=1) dB$.

For power measurements on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \le 4$.

Directional gain may be calculated by using the formulas applicable to equal gain antennas with GANT set equal to the gain of the antenna having the highest gain;

The EUT supports CDD mode.

For power, the directional gain G_{ANT} is set equal to the antenna having the highest gain, i.e., F(2)f(i).

For PSD, the directional gain calculation is following F)2)f)ii) of KDB 662911 D01 v02r01.

The power and PSD limit should be modified if the directional gain of EUT is over 6 dBi,

The directional gain "DG" is calculated as following table.

<cdd mod<="" th=""><th>es></th><th></th><th></th><th></th><th></th><th></th></cdd>	es>					
			DG	DG	Power	PSD
			for	for	Limit	Limit
	Ant. 4	Ant. 5	Power	PSD	Reduction	Reduction
	(dBi)	(dBi)	(dBi)	(dBi)	(dB)	(dB)
2.4 GHz	-6.80	-2.50	-2.50	-1.38	0.00	0.00

Power Limit Reduction = DG(Power) - 6dBi, (min = 0)

 $PSD \ Limit \ Reduction = DG(PSD) - 6dBi, (min = 0)$

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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;	May. 24, 2022	Jan. 13, 2023	May. 23, 2023	Conduction (CO01-KS)
AC LISN (for auxiliary equipment)	MessTec	AN3016	060103	9kHz~30MHz	Oct. 13, 2022	Jan. 13, 2023	Oct. 12, 2023	Conduction (CO01-KS)
AC LISN	MessTec	AN3016	060105	9kHz~30MHz	May. 24, 2022	Jan. 13, 2023	May. 23, 2023	Conduction (CO01-KS)
AC Power Source	Chroma	61602	ABP00000 0811	AC 0V~300V, 45Hz~1000Hz	Oct. 12, 2022	Jan. 13, 2023	Oct. 11, 2023	Conduction (CO01-KS)
EMI Test Receiver	R&S	ESR7	101404	9kHz~7GHz	Oct. 19,2022	Dec. 27, 2022~ Jan. 14, 2023	Oct. 18,2023	Radiation (03CH04-SZ)
EXA Spectrum Analyzer	KEYSIGHT	N9010A	MY551502 13	10Hz~44GHz	Jul. 07. 2022	Dec. 27, 2022~ Jan. 14, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Loop Antenna	R&S	HFH2-Z2	100354	9kHz~30MHz	Jun. 28, 2022	Dec. 27, 2022~ Jan. 14, 2023	Jun. 27, 2024	Radiation (03CH04-SZ)
Bilog Antenna	TeseQ	CBL6111D	41909	30MHz~1GHz	Apr. 27,2022	Dec. 27, 2022~ Jan. 14, 2023	Apr. 27,2023	Radiation (03CH04-SZ)
Double Ridge Horn Antenna	SCHWARZBE CK	BBHA9120D	9120D-147 4	1GHz~18GHz	Jul. 07. 2022	Dec. 27, 2022~ Jan. 14, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Horn Antenna	SCHWARZBE CK	BBHA9170	9170#679	15GHz~40GHz	Jul. 07. 2022	Dec. 27, 2022~ Jan. 14, 2023	Jul. 06, 2023	Radiation (03CH04-SZ)
Amplifier	Burgeon	BPA-530	102211	0.01Hz ~3000MHz	Oct. 19,2022	Dec. 27, 2022~ Jan. 14, 2023	Oct. 18,2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	AMF-7D-0010 1800-30-10P- R	1943528	1GHz~18GHz	Oct. 19,2022	Dec. 27, 2022~ Jan. 14, 2023	Oct. 18,2023	Radiation (03CH04-SZ)
HF Amplifier	MITEQ	TTA1840-35- HG	1871923	18GHz~40GHz	Jul. 06,2022	Dec. 27, 2022~ Jan. 14, 2023	Jul. 05,2023	Radiation (03CH04-SZ)
Amplifier	Agilent Technologies	83017A	MY572801 36	500MHz~26.5G Hz	Sep. 30,2022	Dec. 27, 2022~ Jan. 14, 2023	Sep. 29.2023	Radiation (03CH04-SZ)
AC Power Source	APC	AFV-S-600B	F11905001 9	N/A	Nov.10.2022	Dec. 27, 2022~ Jan. 14, 2023	Nov.10.2023	Radiation (03CH04-SZ)
Turn Table	EM	EM1000	N/A	0~360 degree	NCR	Dec. 27, 2022~ Jan. 14, 2023	NCR	Radiation (03CH04-SZ)
Antenna Mast	EM	EM1000	N/A	1 m~4 m	NCR	Dec. 27, 2022~ Jan. 14, 2023	NCR	Radiation (03CH04-SZ)
Thermo meter	Anymetre	JR593	#12	- 10℃ ~ 50℃ 10%RH ~99%RH	Dec. 31, 2021	Dec. 27, 2022~	Dec. 30, 2022	Radiation (03CH04-SZ)
Thermo meter	Anymetre	JR593	#12	- 10℃ ~ 50℃ 10%RH ~99%RH	Dec. 30, 2022	Jan. 14, 2023	Dec. 29, 2023	Radiation (03CH04-SZ)
Spectrum Analyzer	R&S	FSV30	101338	10Hz~30GHz	May. 25, 2022	Dec. 22,2022~ Dec. 28,2022	May. 24, 2023	Conducted (TH01-KS)
Spectrum Analyzer	R&S	FSV40	101040	10Hz~40GHz	Oct. 12, 2022	Dec. 22,2022~ Dec. 28,2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	0917070	300MHz~40GH z	Jan. 05, 2022	Dec. 22,2022~ Dec. 28,2022	Jan. 04, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1005002	50MHz Bandwidth	Oct. 12, 2022	Dec. 22,2022~ Dec. 28,2022	Oct. 11, 2023	Conducted (TH01-KS)
Pulse Power Senor	Anritsu	MA2411B	1339163	300MHz~40GH z	Oct. 12, 2022	Dec. 22,2022~ Dec. 28,2022	Oct. 11, 2023	Conducted (TH01-KS)
Power Meter	Anritsu	ML2495A	1435004	50MHz Bandwidth	Mar. 02, 2022	Dec. 22,2022~ Dec. 28,2022	Mar. 01, 2023	Conducted (TH01-KS)

NCR: No Calibration Required

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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.

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Uncertainty of Conducted Measurement

Test Item	Uncertainty
Conducted Power	±0.46 dB
Conducted Emissions	±0.48 dB
Occupied Channel Bandwidth	±0.001 %
Conducted Power Spectral Density	±0.40 dB

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

Measuring Uncertainty for a Level of Confidence	2.78 dB
of 95% (U = 2Uc(y))	2.76 UB

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

Measuring Uncertainty for a Level of Confidence	5.1 dB
of 95% (U = 2Uc(y))	3.1 UB

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	4.8 dB
---	--------

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

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	5.1 dB	
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Appendix A. Conducted Test Results

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Ambient Condition: $\underline{25}$ °C, $\underline{45}$ %RH

According Standard: ■Part15C

Test Date: 2022/12/22~2022/12/28 Test Engineer: Long Wu

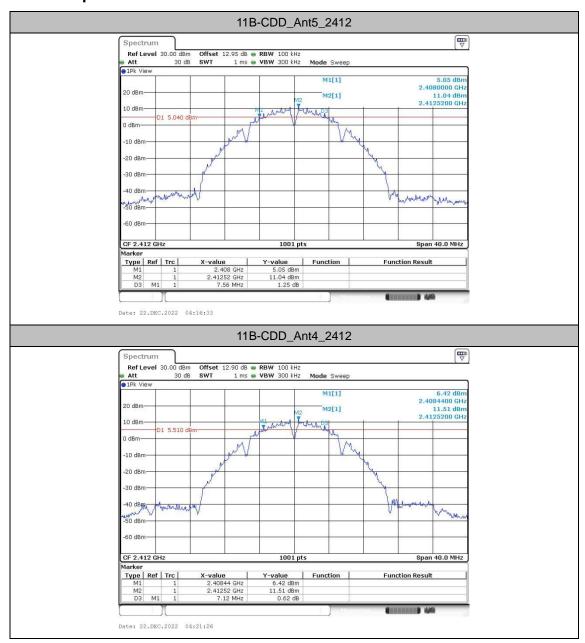
DTS Bandwidth

Test Result

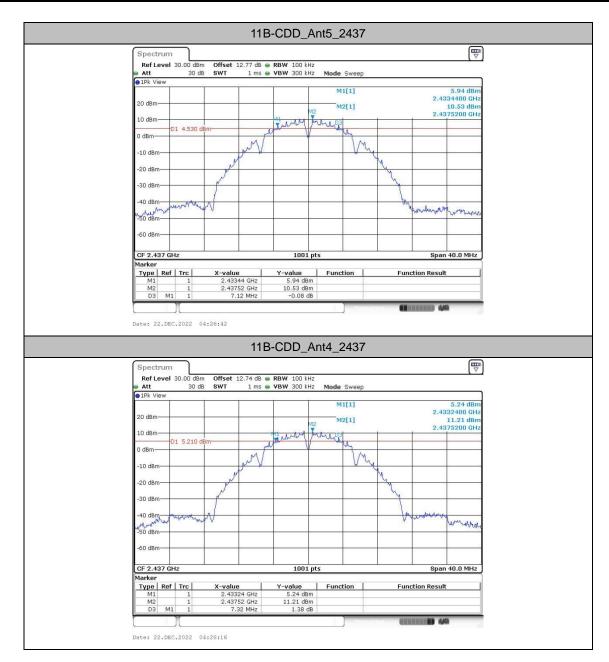
TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant5	2412	7.56	2408.00	2415.56	0.5	PASS
	Ant4	2412	7.12	2408.44	2415.56	0.5	PASS
	Ant5	2437	7.12	2433.44	2440.56	0.5	PASS
	Ant4	2437	7.32	2433.24	2440.56	0.5	PASS
	Ant5	2462	7.12	2458.44	2465.56	0.5	PASS
	Ant4	2462	7.12	2458.44	2465.56	0.5	PASS
11G-CDD	Ant5	2412	16.32	2403.84	2420.16	0.5	PASS
	Ant4	2412	16.28	2403.88	2420.16	0.5	PASS
	Ant5	2437	15.96	2428.84	2444.80	0.5	PASS
	Ant4	2437	16.32	2428.84	2445.16	0.5	PASS
	Ant5	2462	16.28	2453.84	2470.12	0.5	PASS
	Ant4	2462	16.28	2453.84	2470.12	0.5	PASS
11AX20MIMO	Ant5	2412	18.88	2402.56	2421.44	0.5	PASS
	Ant4	2412	17.76	2403.60	2421.36	0.5	PASS
	Ant5	2437	18.76	2427.56	2446.32	0.5	PASS
	Ant4	2437	18.60	2427.68	2446.28	0.5	PASS
	Ant5	2462	18.60	2452.60	2471.20	0.5	PASS
	Ant4	2462	18.64	2452.60	2471.24	0.5	PASS
11AX40MIMO	Ant5	2422	37.84	2403.04	2440.88	0.5	PASS
	Ant4	2422	37.84	2403.12	2440.96	0.5	PASS
	Ant5	2437	37.60	2418.12	2455.72	0.5	PASS
	Ant4	2437	37.92	2418.04	2455.96	0.5	PASS
	Ant5	2452	37.52	2433.04	2470.56	0.5	PASS
	Ant4	2452	36.88	2433.52	2470.40	0.5	PASS

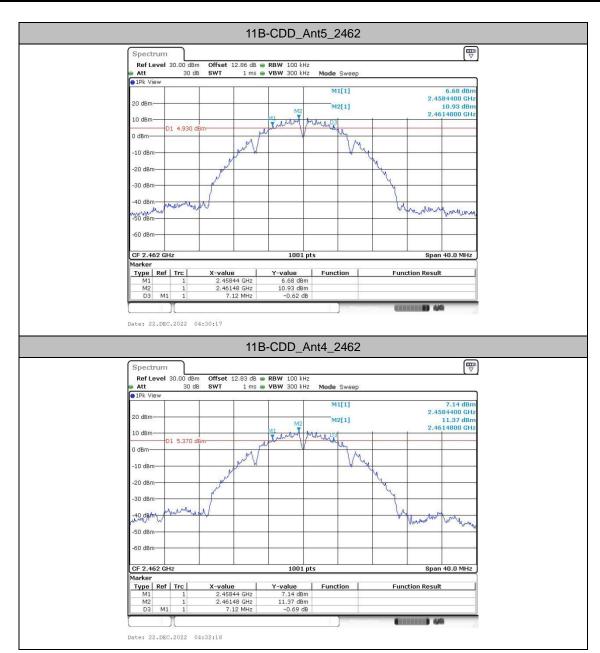
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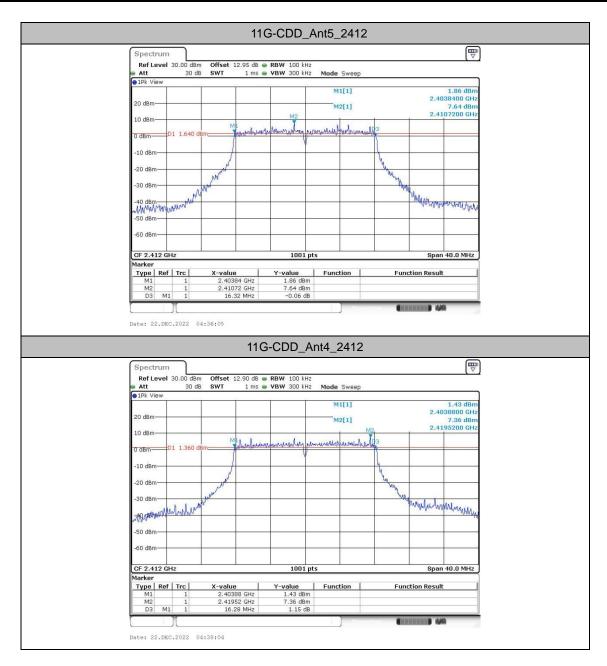
Test Graphs



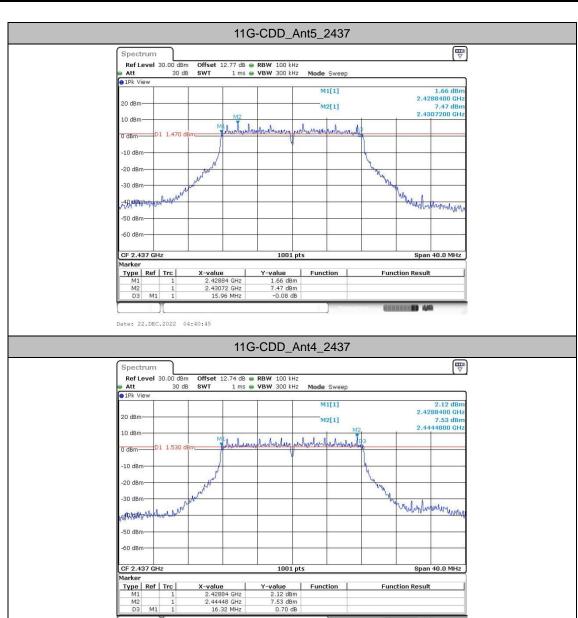
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3







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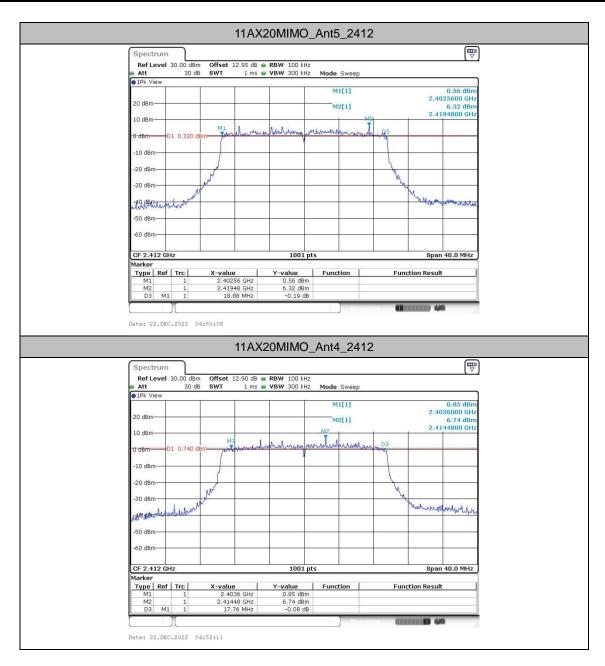
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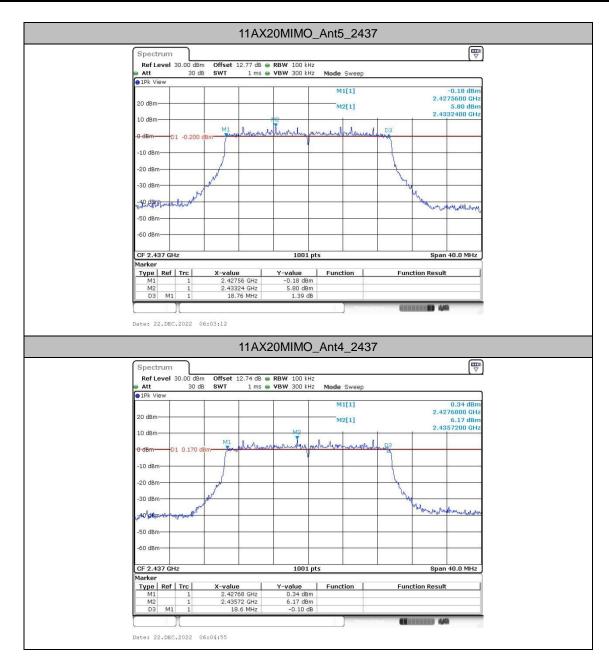


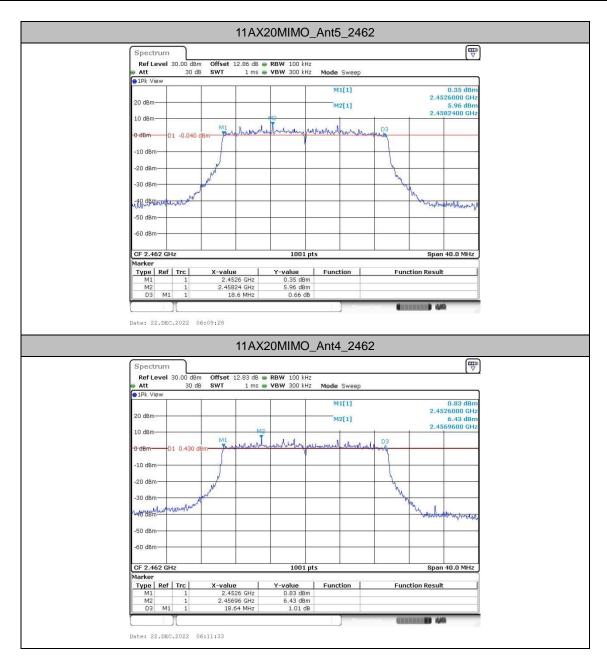
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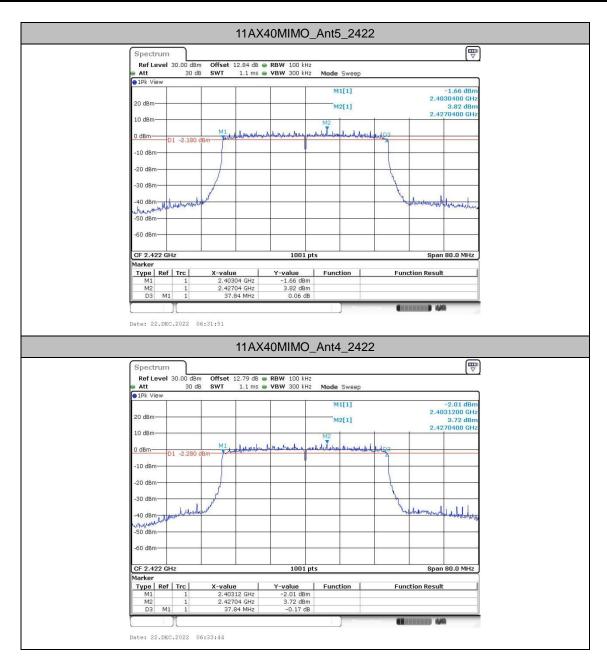
TEL: +86-512-57900158 FAX: +86-512-57900958 FCC ID: IHDT56AJ3

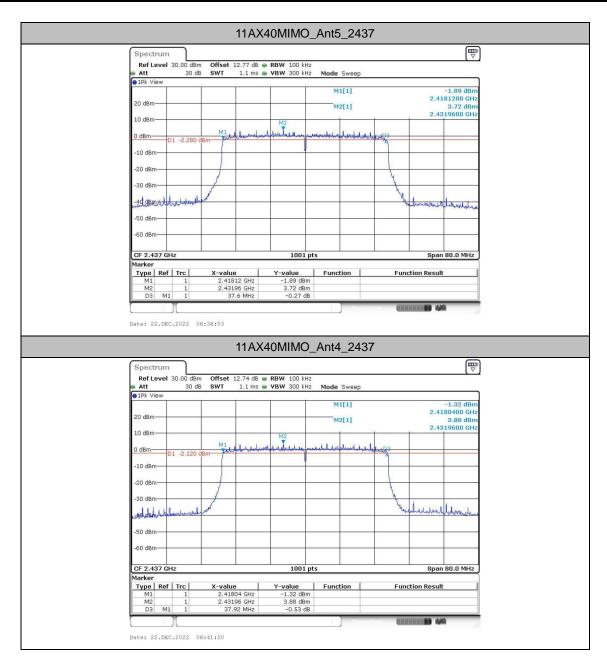


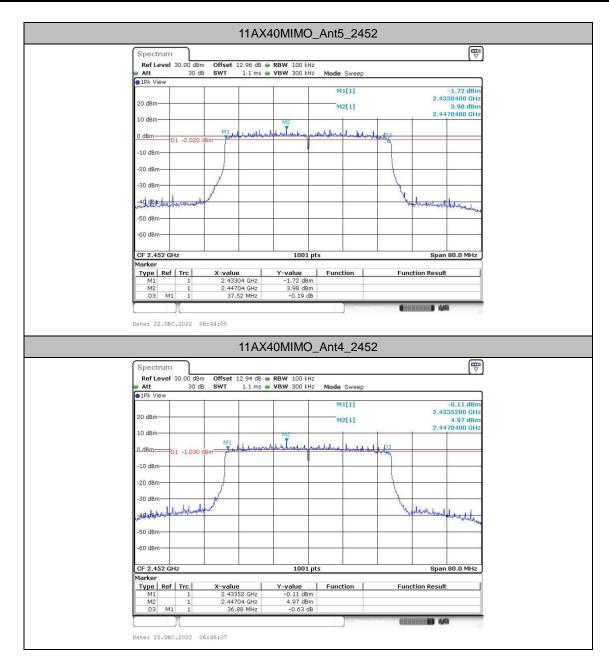
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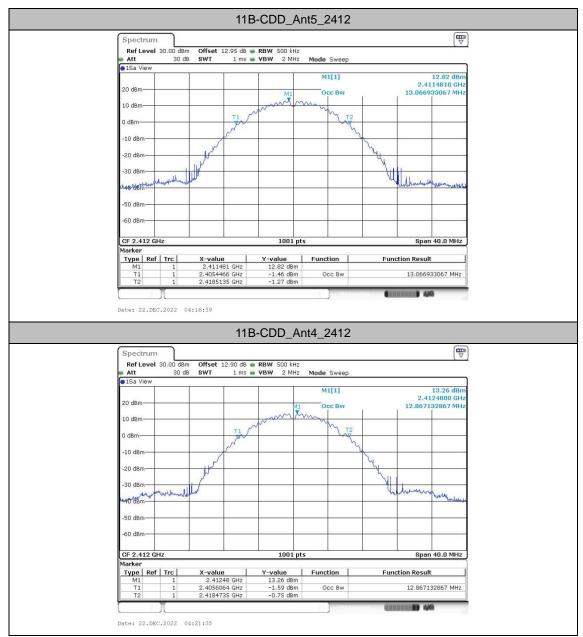
Occupied Channel Bandwidth

Test Result

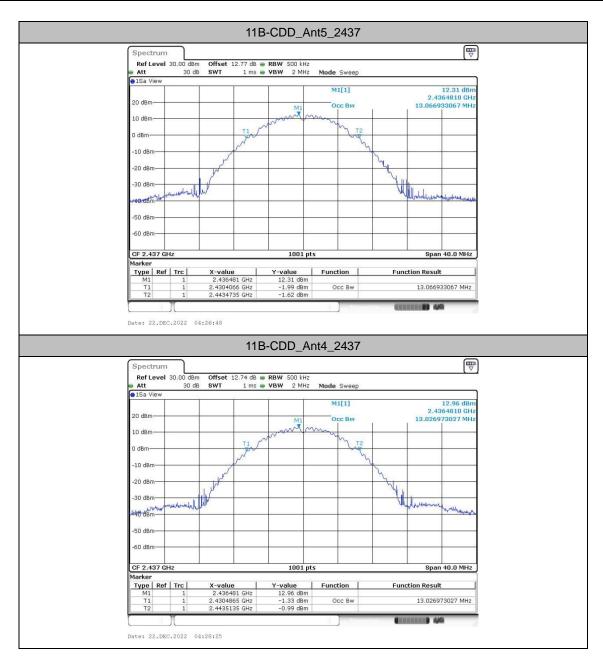
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11B-CDD	Ant5	2412	13.067	2405.4466	2418.5135		
	Ant4	2412	12.867	2405.6064	2418.4735		
	Ant5	2437	13.067	2430.4066	2443.4735		
	Ant4	2437	13.027	2430.4865	2443.5135		
	Ant5	2462	12.947	2455.4466	2468.3936		
	Ant4	2462	13.227	2455.2867	2468.5135		
11G-CDD	Ant5	2412	16.663	2403.6484	2420.3117		
	Ant4	2412	16.583	2403.7283	2420.3117		
	Ant5	2437	16.703	2428.6084	2445.3117		
	Ant4	2437	16.623	2428.6883	2445.3117		
	Ant5	2462	16.663	2453.6084	2470.2717		
	Ant4	2462	16.703	2453.6084	2470.3117		
11AX20MIMO	Ant5	2412	18.981	2402.4895	2421.4705		
	Ant4	2412	18.981	2402.5295	2421.5105		
	Ant5	2437	18.981	2427.4895	2446.4705		
	Ant4	2437	19.021	2427.4895	2446.5105		
	Ant5	2462	19.021	2452.4496	2471.4705		
	Ant4	2462	19.021	2452.4496	2471.4705		
11AX40MIMO	Ant5	2422	37.962	2402.9790	2440.9411		
	Ant4	2422	37.882	2403.0589	2440.9411		
	Ant5	2437	37.802	2418.0589	2455.8611		
	Ant4	2437	37.882	2418.0589	2455.9411		
	Ant5	2452	37.882	2432.9790	2470.8611		
	Ant4	2452	37.882	2432.9790	2470.8611		

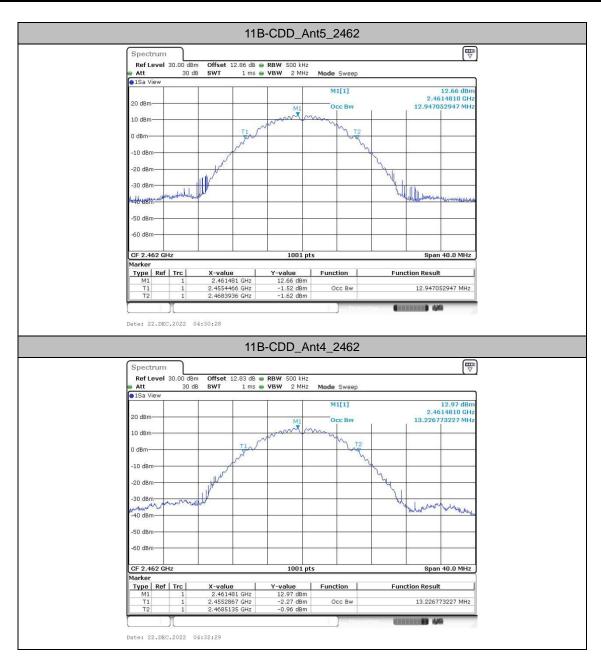
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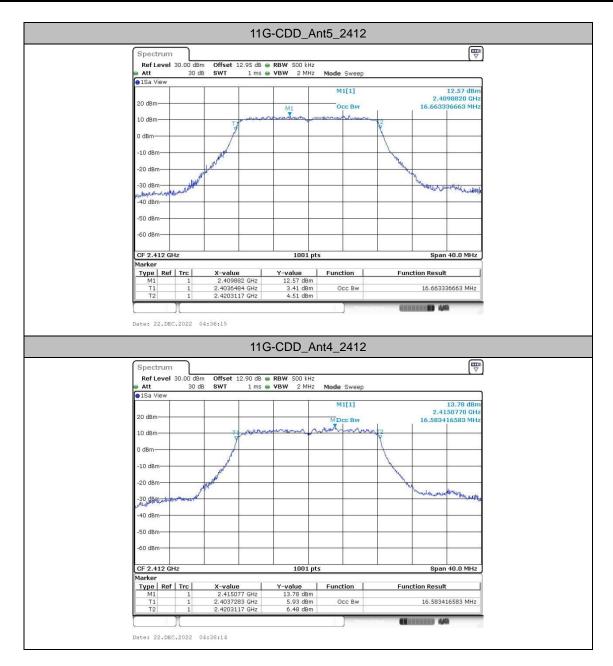
Test Graphs

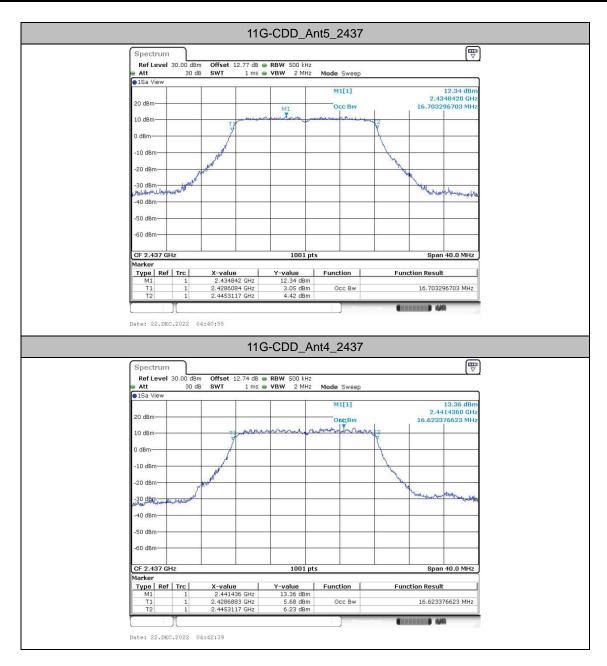


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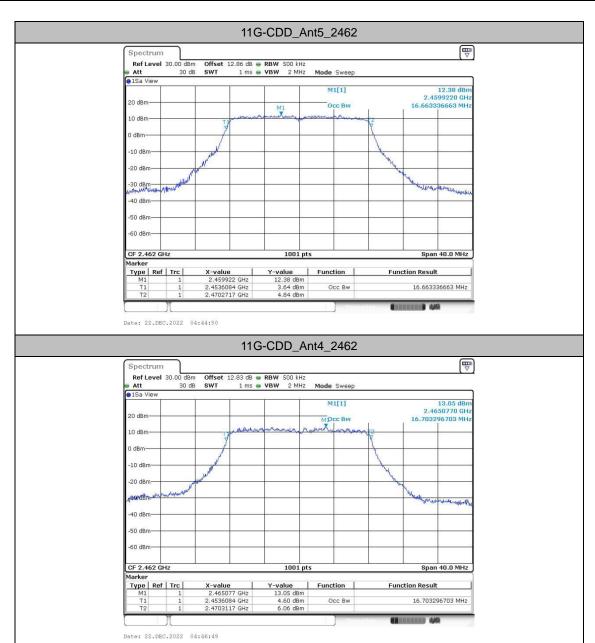


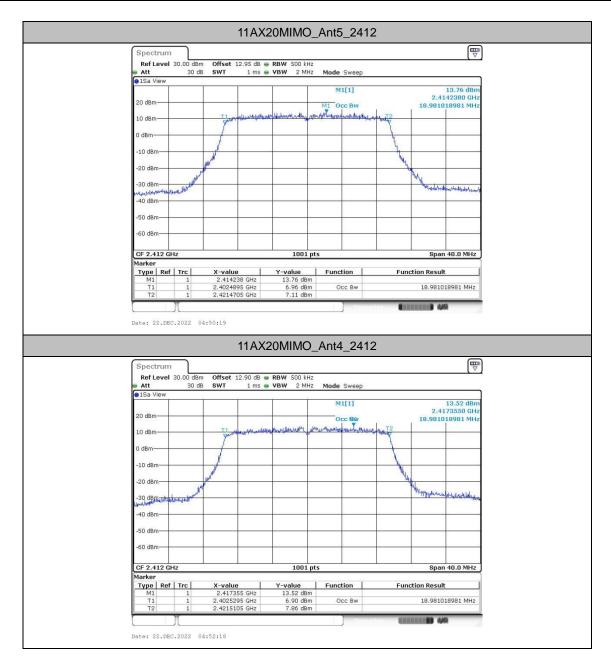


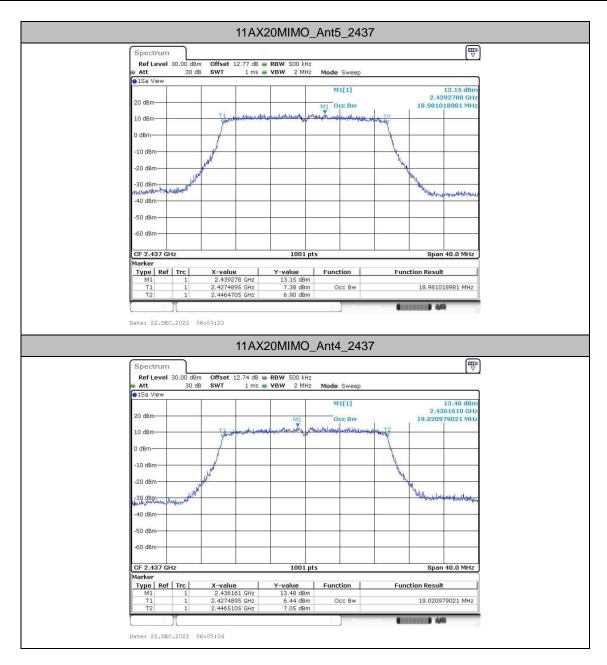
Report No.: FR2D0913C

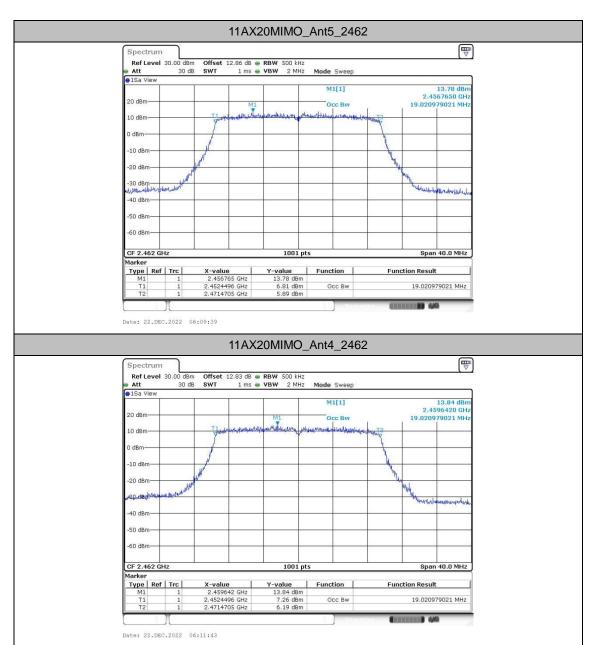
Page Number

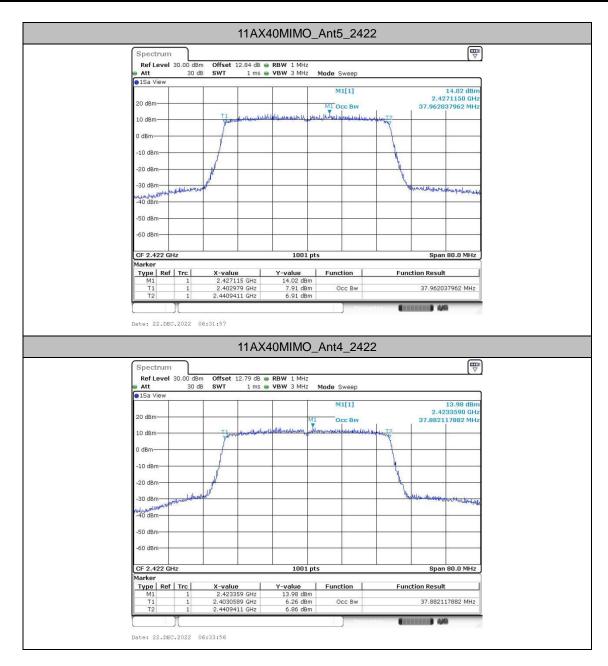
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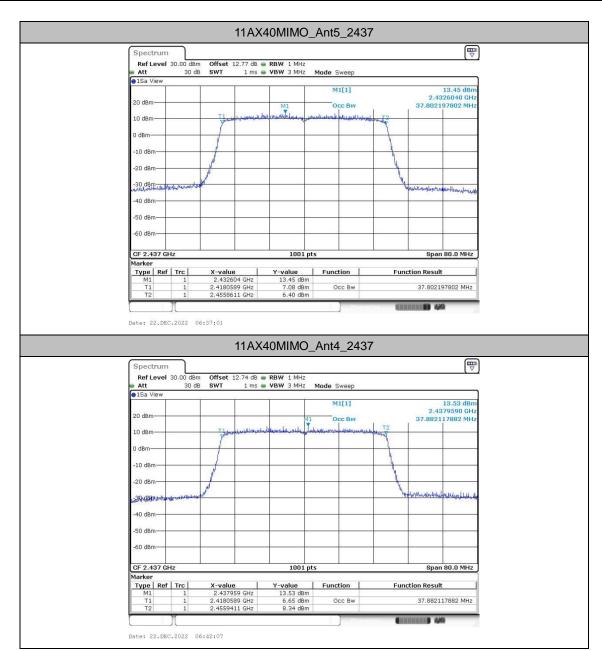


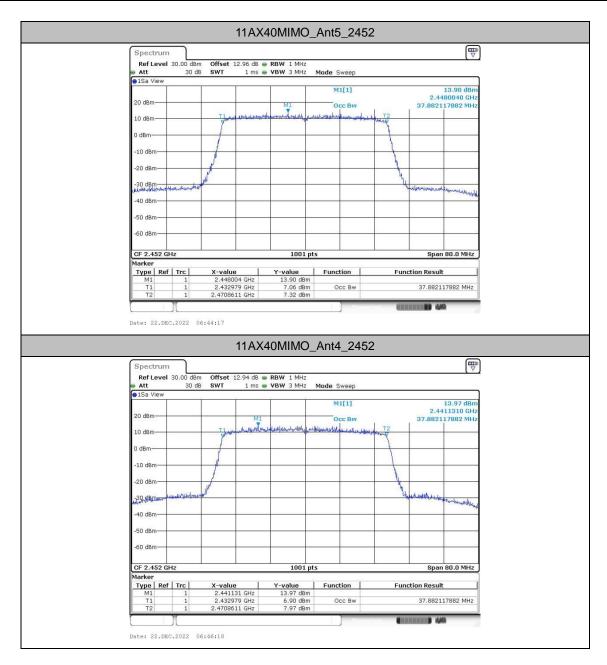












Report No.: FR2D0913C

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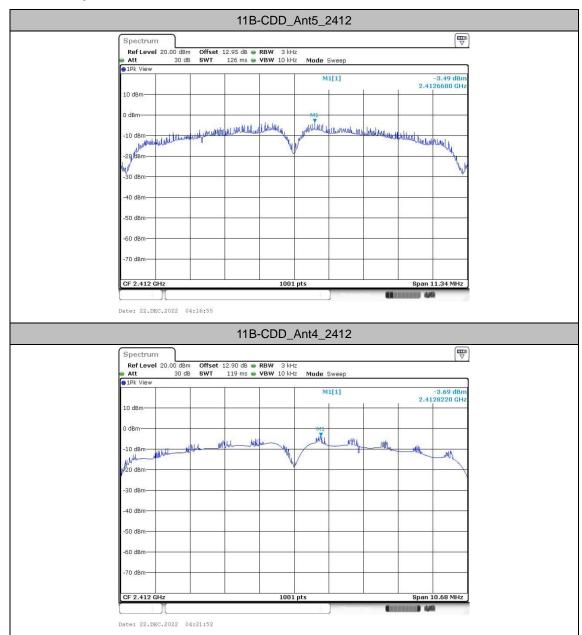
Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/3kHz]	Limit [dBm/3kHz]	Verdict
11B-CDD	Ant5	2412	-3.49	≤8.00	PASS
	Ant4	2412	-3.69	≤8.00	PASS
	total	2412	-0.58	≤8.00	PASS
	Ant5	2437	-4.21	≤8.00	PASS
	Ant4	2437	-3.85	≤8.00	PASS
	total	2437	-1.02	≤8.00	PASS
	Ant5	2462	-2.9	≤8.00	PASS
	Ant4	2462	-2.7	≤8.00	PASS
	total	2462	0.21	≤8.00	PASS
11G-CDD	Ant5	2412	-7.5	≤8.00	PASS
	Ant4	2412	-6.73	≤8.00	PASS
	total	2412	-4.09	≤8.00	PASS
	Ant5	2437	-7.72	≤8.00	PASS
	Ant4	2437	-7.42	≤8.00	PASS
	total	2437	-4.56	≤8.00	PASS
	Ant5	2462	-7.72	≤8.00	PASS
	Ant4	2462	-5.31	≤8.00	PASS
	total	2462	-3.34	≤8.00	PASS
	Ant5	2412	-8.19	≤8.00	PASS
	Ant4	2412	-9.41	≤8.00	PASS
	total	2412	-5.75	≤8.00	PASS
	Ant5	2437	-8.98	≤8.00	PASS
11AX20MIMO	Ant4	2437	-9.44	≤8.00	PASS
	total	2437	-6.19	≤8.00	PASS
	Ant5	2462	-8.36	≤8.00	PASS
	Ant4	2462	-9.42	≤8.00	PASS
	total	2462	-5.85	≤8.00	PASS
11AX40MIMO	Ant5	2422	-12.01	≤8.00	PASS
	Ant4	2422	-10.77	≤8.00	PASS
	total	2422	-8.34	≤8.00	PASS
	Ant5	2437	-11.65	≤8.00	PASS
	Ant4	2437	-10.98	≤8.00	PASS
	total	2437	-8.29	≤8.00	PASS
	Ant5	2452	-10.62	≤8.00	PASS
	Ant4	2452	-11.06	≤8.00	PASS
	total	2452	-7.82	≤8.00	PASS

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Test Graphs



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